# STATE OF UTAH
# STUDENT ACTIVITY CENTER ADDITION TO THE STROMBERG ATHLETIC COMPLEX
# DFCM PROJECT # 12031810
# BID SET
# WEBER STATE UNIVERSITY
# 3750 HARRISON BLVD
# OGDEN, UTAH 84408

**PROJECT TEAM**

**OWNER**

DFCM
MATTHIAS MUELLER
ADDRESS: 4110 STATE OFFICE BLDG.
SALT LAKE CITY UT 84114
PHONE: 801.533.5561

**CONTRACTOR**

CONSTRUCTION COMPANY TBD
PROJECT MANAGER
ADDRESS:
PHONE:

**ARCHITECT**

VCBO ARCHITECTURE
BRENT TIPPETS
524 SOUTH 600 EAST
SALT LAKE CITY, UT 84102
PHONE: 801.575.8800

**OTHER**

WSU
CHAD DOWNS
2601 UNIVERSITY CIRCLE
OGDEN, UT 84408
PHONE: 801.626.7488

**STRUCTURAL ENGINEER**

ARW ENGINEERS
BRENT WHITE
ADDRESS: 1594 WEST PARK CIRCLE
OGDEN, UT 84404
PHONE: 801.782.6008

**CIVIL ENGINEER**

GREAT BASIN ENGINEERING INC.
MARK BABBITT
ADDRESS: P.O. BOX 150048
RIVERDALE, UT 84415
PHONE: 801.549.7285

**MECHANICAL ENGINEER**

COLVIN ENGINEERING ASSOCIATES
BRET CHRISTIANSEN
ADDRESS: 244 WEST 300 NORTH
SUITE 200 SALT LAKE CITY UT 84103
PHONE: 801.505.5411

**ELECTRICAL ENGINEER**

ECE
AKBAR MATINKHAH
ADDRESS: 939 SOUTH WEST TEMPLE
SALT LAKE CITY UT 84101
PHONE:801.521.8007

APPROVALS:

Prime Agency — Date

DFCM — Date

APPROVAL DOES NOT RELIEVE A/E OF DESIGN LIABILITY

APPROVALS:

Prime Agency — Date

DFCM — Date

APPROVAL DOES NOT RELIEVE A/E OF DESIGN LIABILITY

State of Utah - Department of Administrative Services

DIVISION OF FACILITIES
CONSTRUCTION AND MANAGEMENT
4110 State Office Building / Salt Lake City, Utah 84114 / 533-5561

## ABBREVIATIONS

NOT ALL ABBREVATIONS MAY BE USED

| | |
|---|---|
| & | AND |
| @ | AT |
| ACT | ACOUSTICAL CEILING TILE |
| ADJ | ADJUSTABLE |
| AFF | ABOVE FINISH FLOOR |
| ALT | ALTERNATE |
| AL/ALUM | ALUMINUM |
| APPROX | APPROXIMATE |
| ARCH | ARCHITECTURAL |
| BD | BOARD |
| BLDG | BUILDING |
| BLK | BLOCK (ING) |
| BO | BOTTOM OF |
| BRG | BEARING |
| BSMT | BASEMENT |
| BS | BOTH SIDES |
| BW | BOTH WAYS |
| CAB | CABINET |
| CB | CATCH BASIN |
| CCSA | CUSTOM COLOR SELECTED BY ARCHITECT |
| CG | CORNER GUARD |
| CHAM | CHAMFER |
| CJ | CONTROL JOINT |
| CL | CENTER LINE |
| CLG | CEILING |
| CLR | CLEAR |
| CM | CONSTRUCTION MANAGER |
| COL | COLUMN |
| COMP | COMPUTER |
| CONC | CONCRETE |
| CONT | CONTINUOUS |
| CMU | CONCRETE MASONRY UNIT |
| CSBA | COLOR SELECTED BY ARCHITECT |
| CT | CERAMIC TILE |
| D | DEPTH |
| DB | DECK BEARING |
| DBL | DOUBLE |
| DEPT | DEPARTMENT |
| DF | DRINKING FOUNTAIN |
| DIA | DIAMETER |
| DIM | DIMENSION |
| DN | DOWN |
| DRN | DRAIN |
| DTL/ DET | DETAIL |
| DW | DISHWASHER |
| DWG | DRAWING |
| E | EAST |
| EA | EACH |
| EIFS | EXTERIOR INSULATION SYSTEM |
| EJ | EXPANSION JOINT |
| ELEC | ELECTRICAL |
| ELEV | ELEVATION |
| EQ | EQUAL |
| EQUIP | EQUIPMENT |
| EVAP | EVAPORATIVE |
| EXIST | EXISTING |
| EXP | EXPANSION |
| EXT | EXTERIOR |
| EWC | ELECTRIC WATER COOLER |
| FA | FIRE ALARM |
| FD | FLOOR DRAIN |
| FDN | FOUNDATION |
| FE | FIRE EXTINGUISHER |
| FEC | FIRE EXTINGUISHER CABINET |
| FG | FINISH GRADE |
| FH | FIRE HYDRANT |
| FIN | FINISHED |
| FLR | FLOOR |
| F.O. | FACE OF |
| FT | FOOT, FEET |
| FRP | FIBER REINFORCED PANEL |
| FRT | FIRE RETARDANT TREATED WOOD |
| FTG | FOOTING |
| FV | FIELD VERIFY |
| GA. | GAUGE |
| GALV | GALVANIZED |
| GB | GRAB BAR |
| GC | GENERAL CONTRACTOR |
| GFRC | GLASSFIBER REINFORCED PANEL |
| GYP | GYPSUM |
| GWB | GYPSUM WALLBOARD |
| HB | HOSE BIBB |
| HC | HANDICAP ACCESSIBLE |
| HDW | HARDWARE |
| HDF | HIGH DENSITY FIBERBOARD |
| HM | HOLLOW METAL |
| H | HEIGHT |
| HOR | HORIZONTAL |
| ID | INSIDE DIAMETER |
| ICF | INSULATED CONCRETE FORM |
| IN | INCH |
| INCL | INCLUDE |
| INFO | INFORMATION |
| INT | INTERIOR |
| INSUL | INSULATE, (D), (ION) |
| INV | INVERT |
| JST | JOIST |
| JT | JOINT |
| LAV | LAVATORY |
| LB/ LBS | POUND (S) |
| MAT | MATERIAL (S) |
| MAX | MAXIMUM |
| MDF | MEDIUM DENSITY FIBERBOARD |
| MECH | MECHANICAL |
| MEMB | MEMBRANE |
| MEZZ | MEZZANINE |
| MFR | MANUFACTURER |
| MGR | MANAGER |
| MIN | MINIMUM |
| MIR | MIRROR |
| MISC | MISCELLANEOUS |
| MO | MASONRY OPENING |
| MTD | MOUNT, (ED) |
| MTL | METAL |
| MW | MICROWAVE |
| N | NORTH |
| NIC | NOT IN CONTRACT |
| NO. | NUMBER |
| NOM | NOMINAL |
| NRC | NOISE REDUCTION COEFFICIENT |
| NTS | NOT TO SCALE |
| OC | ON CENTER |
| OD | OUTSIDE DIAMETER |
| OFD | OVERFLOW DRAIN |
| OH | OVERHEAD |
| OPG | OPENING |
| OPP | OPPOSITE |
| OSB | ORIENTED STRAND BOARD |
| OZ | OUNCE |
| PERI | PERIMETER |
| PERM | PERMENANT |
| PL | PLATE |
| PLAM | PLASTIC LAMINATE |
| PNL | PANEL |
| P.O. | POINT OF |
| PR | PAIR |
| PT | POST TENSIONED |
| PART | PARTITION |
| PLY | PLYWOOD |
| QT | QUARRY TILE |
| R / RAD | RADIUS |
| RCP | REFLECTED CEILING PLAN |
| REC | RECESSED |
| REF | REFERENCE |
| REFG | REFRIGERATOR |
| REINF | REINFORCE (ED) |
| REM | REMOVE (ED) |
| REPL | REPLACE |
| REQD | REQUIRED |
| REV | REVISION (S) |
| RM | ROOM |
| RO | ROUGH OPENING |
| S | SOUTH |
| SALV | SALVAGE (ED) |
| SECT | SECTION |
| SF | SQUARE FOOT |
| SIM | SIMILAR |
| SLNT | SEALANT |
| SPEC | SPECIFICATION (S) |
| SQ | SQUARE |
| SS | STAINLESS STEEL |
| STC | SOUND TRANSMISSION CLASS |
| STD | STANDARD |
| STL | STEEL |
| STOR | STORAGE |
| STRUC | STRUCTURE (AL) |
| SUSP | SUSPENDED |
| SYM | SYMMETRY (ICAL) |
| T | THICKNESS |
| T & B | TOP AND BOTTOM |
| T & G | TONGUE AND GROOVE |
| TBD | TO BE DETERMINED |
| TEMP | TEMPORARY |
| THRU | THROUGH |
| T.O. | TOP OF |
| TRANS | TRANSFORMER |
| TS | TUBE STEEL |
| TYP | TYPICAL |
| UNF | UNFINISHED |
| UNO | UNLESS OTHERWISE NOTED |
| VAR | VARIES |
| VB | VAPOR BARRIER |
| VCT | VINYL COMPOSITION TILE |
| VERT | VERTICAL |
| VEST | VESTIBULE |
| VWC | VINYL WALLCOVERING |
| W | WEST |
| W | WIDTH |
| W/ | WITH |
| WC | WATER CLOSET |
| WD | WOOD |
| W/O | WITHOUT |
| WSCT | WAINSCOT |
| WWF | WELDED WIRE FABRIC |

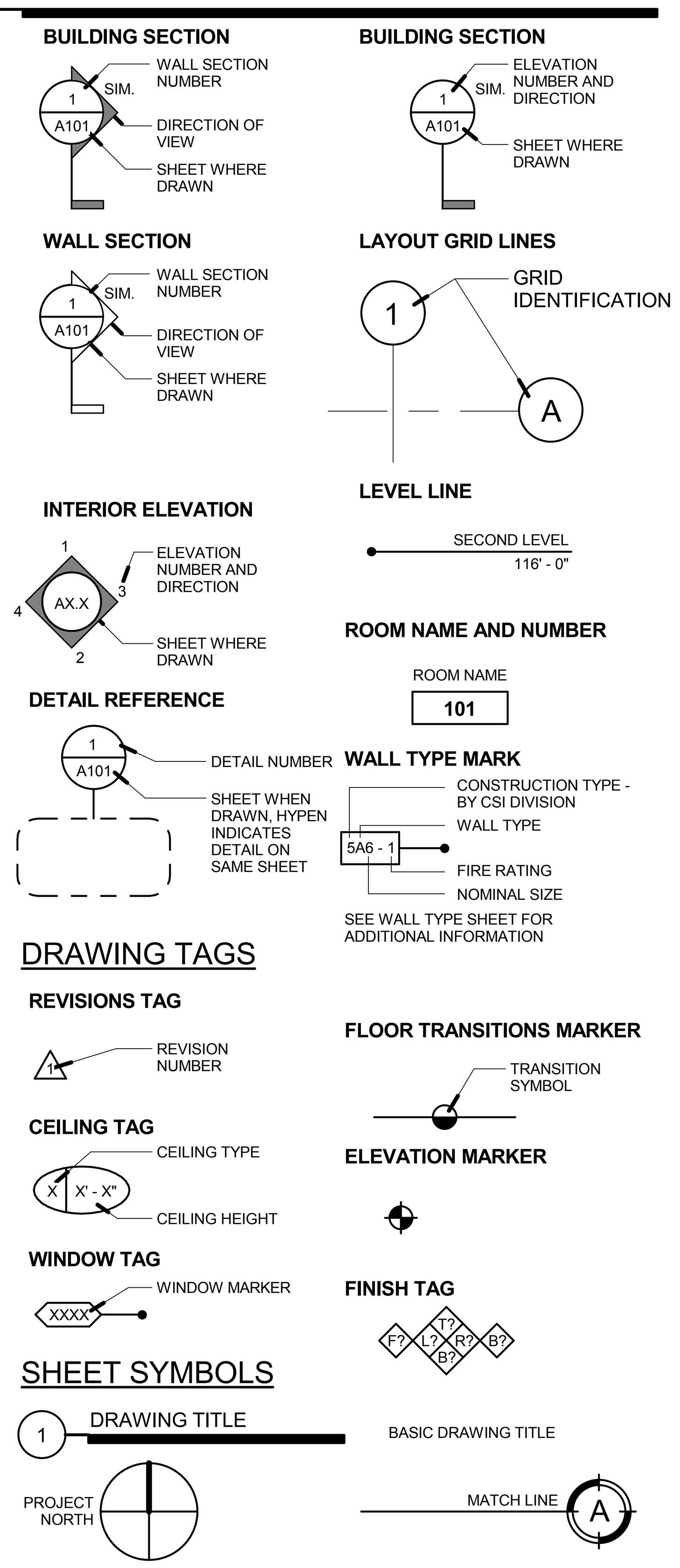
## PROJECT TEAM

| | |
|---|---|
| **OWNER**<br>DFCM<br>Mathias Mueller<br>4110 State Office Bldg.<br>Salt Lake City UT 84114<br>Phone: (801) 533 5561<br>Fax: (801) 538 3267<br>Email: mmueller@utah.gov | **ELECTRICAL ENGINEER**<br>ECE<br>Akbar Matinkhah<br>939 South West Temple<br>Salt Lake City UT 84101<br>Phone: (801) 521 8007<br>Fax: (801) 521 8057<br>Email: akbar@eceonline.com |
| **ARCHITECT**<br>VCBO Architecture<br>Brent Tippets, AIA<br>524 South 600 East<br>Salt Lake City, Utah 84102<br>Phone: (801) 575-8800<br>Fax: (801) 531-9850<br>Email: btippets@vcbo.com | **COMMISSIONING**<br>Utah New Vision<br>Greg Cummings<br>11350 E. 18625 S. #118<br>Mt. Pleasant, UT 84647<br>phone: (801) 694-3820<br>fax<br>email: gregory-scott@excite.com |
| **CIVIL ENGINEER**<br>Great Basin Engineering Inc.<br>Mark Babbit<br>P.O. Box 150048<br>Riverdale UT 84415<br>Phone: (801) 549 7285<br>Fax: (801) 392 7544<br>Email: markb@gbenorth.com | **CONSULTANT**<br>company name<br>contact name<br>street address<br>city, state, zip<br>phone<br>fax<br>email |
| **STRUCTURAL ENGINEER**<br>ARW<br>Brent White<br>1594 West Park Circle<br>Ogden UT 84404<br>Phone: (80) 782 6008<br>Fax: (801) 782 4656<br>Email: brentw@arwengineers.com | **CONSULTANT**<br>company name<br>contact name<br>street address<br>city, state, zip<br>phone<br>fax<br>email |
| **MECHANICAL ENGINEER**<br>Colvin Engineering Associates<br>Bret Christiansen<br>244 West 300 North Suite 200<br>Salt Lake City UT 84103<br>Phone: (801) 505 5411<br>Fax: (801) 322 2416<br>Email: bchristiansen@cea-ut.com | **CONSULTANT**<br>company name<br>contact name<br>street address<br>city, state, zip<br>phone<br>fax<br>email |

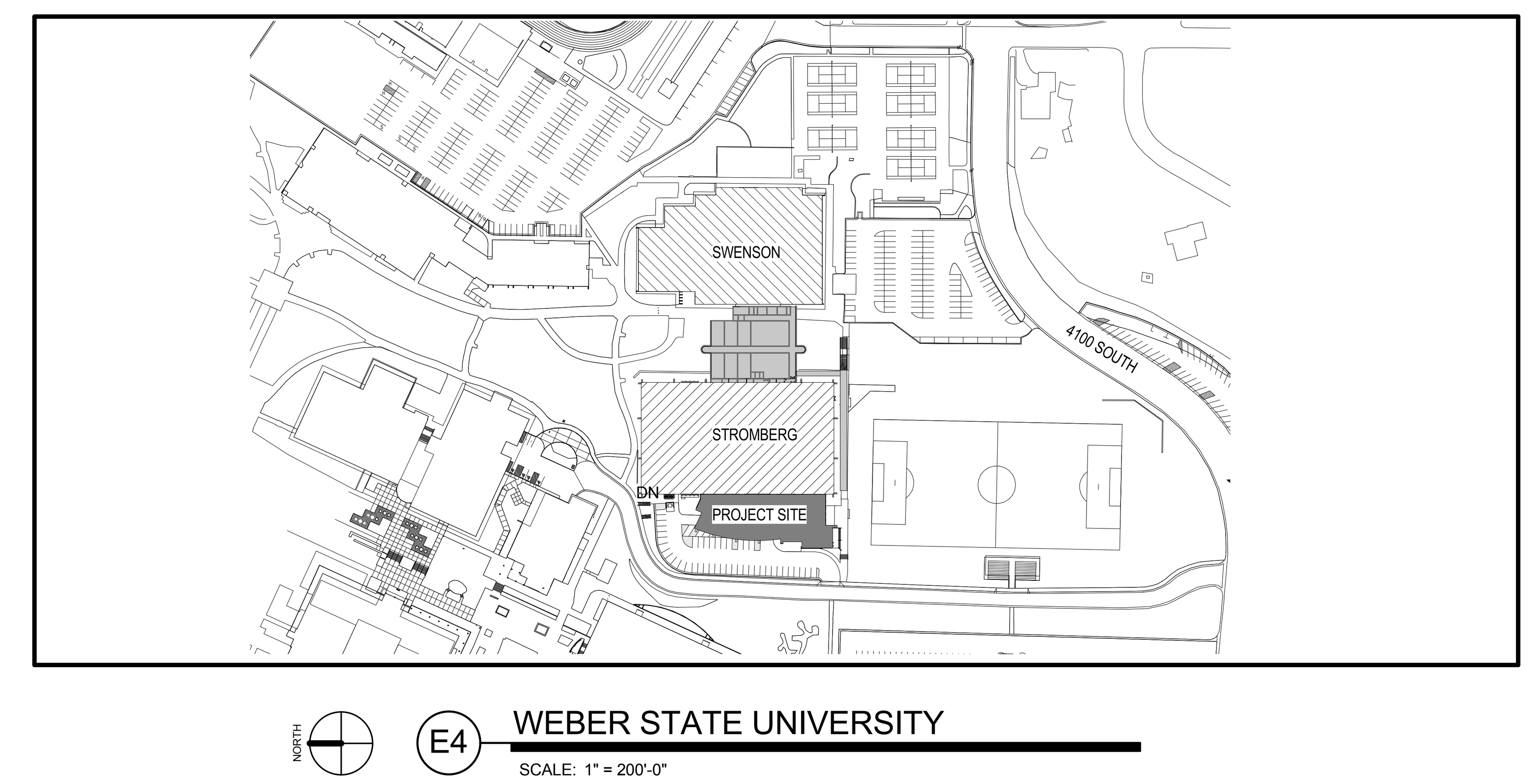
## UTILITY CONTACTS

| | |
|---|---|
| **POWER**<br>company name<br>contact name<br>street address<br>city, state, zip<br>phone<br>fax<br>email | **WATER**<br>company name<br>contact name<br>street address<br>city, state, zip<br>phone<br>fax<br>email |
| **NATURAL GAS**<br>company name<br>contact name<br>street address<br>city, state, zip<br>phone<br>fax<br>email | **TELEPHONE**<br>company name<br>contact name<br>street address<br>city, state, zip<br>phone<br>fax<br>email |

## REFERENCE SYMBOL LEGEND




## VICINITY MAP




## NOTES TO BIDDERS

1. THIS SHEET CONTAINS A LIST OF DRAWINGS WHICH COMPRISE A FULL SET OF DRAWINGS FOR THIS PROJECT. ANY CONTRACTOR, SUBCONTRACTOR, VENDOR OR ANY OTHER PERSON PARTICIPATING IN OR BIDDING ON THIS PROJECT SHALL BE RESPONSIBLE FOR THE INFORMATION CONTAINED IN ANY AND ALL SHEETS OF DRAWINGS AND SPECIFICATIONS. IF ANY PERSON, PARTY OR ENTITY ELECTS TO SUBMIT BIDS FOR ANY PORTION, OR ALL, OF THIS PROJECT, THAT PERSON, PARTY OR ENTITY SHALL BE RESPONSIBLE FOR ANY AND ALL INFORMATION CONTAINED IN THESE DRAWINGS AND SPECIFICATIONS, INCLUDING, BUT NOT LIMITED TO, ANY SUBSEQUENT ADDENDUMS OR CLARIFICATIONS THAT MAY BE ISSUED.
2. THESE DOCUMENTS SHOW THE DESIGN INTENT. IT IS THE CONTRACTORS RESPONSIBILITY TO PROVIDE EVERYTHING SHOWN ON THE DRAWINGS OR SPECIFIED REGARDLESS OF WHERE IT IS SHOWN ON THE DRAWINGS OR IN THE SPECIFICATIONS. FOR EXAMPLE; SOME MILLWORK DETAILS HAVE STEEL FRAMES WHICH MAY BE PROVIDED BY DIVISION 05 OR WITH THE MILLWORK AT THE CONTRACTOR'S DISCRETION, BUT IT SHALL BE PROVIDED AS PART OF THE CONTRACT.
3. EVERYTHING CALLED FOR IN THESE DOCUMENTS SHALL BE "NEW" AND PROVIDED BY THE CONTRACTOR, SUBCONTRACTOR, VENDOR OR ANY OTHER PERSON PARTICIPATING IN OR BIDDING ON THIS PROJECT UNLESS NOTED OTHERWISE AS EXISTING (EXIST), NOT IN CONTRACT (NIC) OR FOR REFERENCE ONLY. FURNISHINGS SHOWN DASHED SHALL BE FOR REFERENCE ONLY.

## BID ALTERNATES

Bid Alternate #1
Provide an additive alternate to remove and replace a portion of athletic track surface in the existing Stromberg Arena, and replace with specified athletic rubber flooring. The area to be replaced is everything that is currently green in color. Refer to the Demo Floor Plans (AD101) and Finish Plans (A111.3, A112.3) for defined area. Refer to the specifications for product information.

Bid Alternate #2
Provide a deductive alternate to use spray applied fire proofing in the Stromberg Arena at the deck and roof structure, in lieu of intumenscent paint, to meet the required Type IB fire protection requirements. Structural members in the addition noted to be protected by intumenscent paint are to remain as detailed.

## GENERAL NOTES

1. IT IS THE CONTRACTORS RESPONSIBILITY TO REVIEW AND COORDINATE THE WORK OF ALL SUB-CONTRACTORS, TRADES AND SUPPLIERS WITH THE REQUIREMENTS OF THE CONTRACT DOCUMENTS BEFORE COMMENCING CONSTRUCTION, AND TO ASSURE THAT ALL PARTIES ARE AWARE OF ALL REQUIREMENTS, REGARDLESS OF WHERE THE REQUIREMENTS OCCUR IN THE CONTRACT DOCUMENTS, WHICH MIGHT AFFECT THE WORK OF THAT PARTY.
2. AS PART OF THE CONTRACTOR'S RESPONSIBILITY TO COORDINATE THE WORK OF ALL SUB-CONTRACTORS, TRADES AND SUPPLIERS, THE CONTRACTOR SHALL ENDEAVOR TO IDENTIFY AND NOTIFY THE ARCHITECT OF ANY CONFLICTS BETWEEN THE WORK OF DIFFERENT PARTIES AT THE EARLIEST POSSIBLE DATE SO AS TO ALLOW REASONABLE AND ADEQUATE TIME FOR THE CONFLICT TO BE RESOLVED WITHOUT DELAYING THE WORK. ALL DEVIATIONS FROM THAT WHICH IS REQUIRED BY THE CONTRACT DOCUMENTS MUST BE APPROVED IN ADVANCE BY THE ARCHITECT.
3. THE ARCHITECTURAL DRAWINGS ESTABLISH AND COORDINATE THE FINISHED APPEARANCE AND EXACT LOCATION OF ALL EXPOSED ELEMENTS OF THE WORK OF ALL THE TRADES, INCLUDING THAT WORK WHICH IS ILLUSTRATED PRIMARILY ON DRAWINGS OF OTHER DISCIPLINES. QUANTITIES ARE TO BE PROVIDED AS SHOWN ON DRAWINGS OF OTHER DISCIPLINES BUT LOCATIONS SHOWN ON OTHER DRAWINGS ARE SCHEMATIC, UNLESS OTHERWISE NOTED ON THE ARCHITECTURAL DRAWINGS. THE ARCHITECTURAL DRAWINGS TAKE PRECEDENCE FOR THE FINISHED APPEARANCE AND EXACT LOCATION OF ALL PARTS OF THE WORK.
4. EXCEPT WHERE DIRECTED TO PLACE ITEMS OF WORK AT THE APPROXIMATE LOCATION SHOWN; DO NOT SCALE DRAWINGS FOR DIMENSIONAL INFORMATION. ALL ELEMENTS OF THE DRAWINGS MAY NOT BE DRAWN TO EXACT SCALE. ALL DIMENSIONS REQUIRED ARE SHOWN OR MAY BE DERIVED FROM THOSE SHOWN ON THE FLOOR PLANS, DETAIL PLANS, ELEVATIONS, SECTIONS, DETAILS, SCHEDULES AND SPECIFICATIONS. IF DIMENSIONS ARE NOT PRESENT, THE ARCHITECT IS TO BE NOTIFIED SO THAT A CLARIFICATION CAN BE ISSUED.
5. CONTRACTOR TO FOLLOW ANSI 117-1 2003 AS REPRESENTED ON SHEET G2.1 FOR ACCESSIBILITY GUIDELINES. NOTIFY ARCHITECT IF THE DESIGN DRAWINGS CONFLICT WITH THIS SHEET.

## SHEET INDEX


| SHEET NUMBER | SHEET NAME |
|---|---|
| ARCHITECTURAL | |
| G003 | SPECIAL INPSPECTIONS |
| GENERAL | |
| CVR | DFCM COVER |
| G001 | GENERAL INFORMATION AND INDEX |
| G100 | FIRE SEPARATION PLANS |
| G101 | LEVEL 01 EGRESS PLAN |
| G102 | LEVEL 02 EGRESS PLAN |
| G103 | LEVEL 03 EGRESS PLAN |
| G200 | UL RATED WALL ASSEMBLIES |
| G201 | UL RATED COLUMN AND BEAM ASSEMBLIES |
| G202 | UL RATED COLUMN AND BEAM ASSEMBLIES |
| G203 | FIRESTOP SYSTEMS |
| G300 | TYPICAL ANSI ACCESSIBILITY STANDARDS |
| CIVIL | |
| CD101 | DEMOLITION PLAN |
| CS101 | OVERALL SITE PLAN |
| CG101 | GRADING & DRAINAGE PLAN |
| CU101 | UTILITY PLAN |
| CD501 | CONSTRUCTION DETAILS |
| ARCHITECTURAL | |
| AD311 | DEMOLITION WALL SECTIONS |
| AD410 | DEMOLITION INTERIOR ELEVATIONS |
| DEMOLITION | |
| ADS101 | DEMOLITION SITE PLAN |
| AD101 | DEMOLITION PLAN |
| AD102 | DEMOLITION PLAN |
| AD103 | DEMOLITION CEILING PLAN |
| AD104 | DEMOLITION ROOF PLAN |
| AD201 | DEMOLITION EXTERIOR ELEVATIONS |
| AD411 | DEMOLITION INTERIOR ELEVATIONS |
| ANTICIPATED EXISTING CONDITIONS | |
| AE104 | ANTICIPATED EXISTING CONDITIONS AT ROOF |
| AE301 | ANTICIPATED EXISTING CONDITIONS - BUILDING SECTIONS |
| AE401 | ANTICIPATED EXISTING CONDITIONS - WALL SECTIONS |
| ARCHITECTURAL | |
| AS101 | OVERALL SITE PLAN |
| AS102 | SITE ENLARGED PLANS AND DETAILS |
| A101 | LEVEL 01 - OVERALL PLAN |
| A102 | LEVEL 02 - OVERALL PLAN |
| A103 | LEVEL 03 - OVERALL PLAN |
| A104 | ROOF PLAN |
| A104.1 | ENLARGED ROOF PLAN |
| A111.1 | LEVEL 01 AREA A - DIMENSION PLAN |
| A111.2 | LEVEL 01 AREA A - ANNOTATION PLAN |
| A111.3 | LEVEL 01 AREA A - FINISH PLAN |
| A111.4 | LEVEL 01 AREA A - REFLECTED CEILING PLAN |
| A112.1 | LEVEL 01 AREA B - DIMENSION PLAN |
| A112.2 | LEVEL 01 AREA B - ANNOTATED PLAN |
| A112.3 | LEVEL 01 AREA B - FINISH PLAN |
| A112.4 | LEVEL 01 AREA B - REFLECTED CEILING PLAN |
| A113.1 | LEVEL 01 AREA C - DIMENSION PLAN |
| A113.2 | LEVEL 01 AREA C - ANNOTATED PLAN |
| A113.3 | LEVEL 01 AREA C - FINISH PLAN |
| A113.4 | LEVEL 01 AREA C - REFLECTED CEILING PLAN |
| A121.4 | LEVEL 02 AREA A - REFLECTED CEILING PLAN |
| A122.1 | LEVEL 02 AREA B - DIMENSION PLAN |
| A122.2 | LEVEL 02 AREA B - ANNOTATED PLAN |
| A122.3 | LEVEL 02 AREA B - FINISH PLAN |
| A122.4 | LEVEL 02 AREA B - REFLECTED CEILING PLAN |
| A123.1 | LEVEL 02 AREA C - DIMENSION PLAN |
| A123.2 | LEVEL 02 AREA C- ANNOTATED PLAN |
| A123.3 | LEVEL 02 AREA C - FINISH PLAN |
| A123.4 | LEVEL 02 AREA C -REFLECTED CEILING PLAN |
| A131.1 | LEVEL 03 AREA A - DIMENSION PLAN |
| A131.2 | LEVEL 03 AREA A - ANNOTATED PLAN |
| A131.3 | LEVEL 03 AREA A - FINISH PLAN |
| A131.4 | LEVEL 03 AREA A - REFLECTED CEILING PLAN |
| A132.1 | LEVEL 03 AREA B - DIMENSION PLAN |
| A132.2 | LEVEL 03 AREA B - ANNOTATED PLAN |
| A132.3 | LEVEL 03 AREA B - FINISH PLAN |
| A132.4 | LEVEL 03 AREA B - REFLECTED CEILING PLAN |
| A133.1 | LEVEL 03 AREA C - DIMENSION PLAN |
| A133.2 | LEVEL 03 AREA C - ANNOTATED PLAN |
| A133.3 | LEVEL 03 AREA C - FINISH PLAN |
| A133.4 | LEVEL 03 AREA C - REFLECTED CEILING PLAN |
| A201 | BUILDING ELEVATIONS |
| A301 | OVERALL EAST WEST BUILDING SECTIONS |
| A302 | OVERALL NORTH-SOUTH BUILDING SECTIONS |
| A311 | WALL SECTIONS |
| A312 | WALL SECTIONS |
| A313 | WALL SECTIONS |
| A314 | WALL SECTIONS |
| A315 | WALL SECTIONS |
| A320 | STAIR PLANS, ELEVATIONS & SECTIONS |
| A321 | STAIR PLANS, SECTIONS AND DETAILS |
| A410.1 | LEVEL 01 INTERIOR ELEVATIONS |
| A410.2 | LEVEL 01 INTERIOR ELEVATIONS |
| A410.3 | LEVEL 01 INTERIOR ELEVATIONS |
| A410.4 | LEVEL 01 INTERIOR ELEVATIONS |
| A410.5 | LEVEL 01 INTERIOR ELEVATIONS |
| A410.6 | LEVEL 01 INTERIOR ELEVATIONS |
| A410.7 | LEVEL 01 INTERIOR ELEVATIONS |
| A410.8 | LEVEL 01 INTERIOR ELEVATIONS |
| A410.9 | LEVEL 01 INTERIOR ELEVATIONS |
| A410.10 | LEVEL 01 INTERIOR ELEVATIONS |
| A420.1 | LEVEL 02 INTERIOR ELEVATIONS |
| A420.2 | LEVEL 02 INTERIOR ELEVATIONS |
| A420.3 | LEVEL 02 INTERIOR ELEVATIONS |
| A420.4 | LEVEL 02 INTERIOR ELEVATIONS |
| A420.5 | LEVEL 02 INTERIOR ELEVATIONS |
| A420.6 | LEVEL 02 INTERIOR ELEVATIONS |
| A420.7 | LEVEL 02 INTERIOR ELEVATIONS |
| A420.8 | LEVEL 02 INTERIOR ELEVATIONS |
| A430.1 | LEVEL 03 INTERIOR ELEVATIONS |
| A500 | EXTERIOR WALL TYPES AND GENERAL NOTES |
| A501 | INTERIOR WALL TYPES |
| A510 | EXTERIOR ENVELOPE DETAILS |
| A511 | EXTERIOR ENVELOPE DETAILS |
| A512 | COMPOSITE METAL VISOR DETAILS |
| A520 | TYPICAL INTERIOR FRAMING DETAILS |
| A521 | INTERIOR DETAILS |
| A530 | ROOF DETAILS |
| A531 | ROOF DETAILS |
| A540 | CEILING DETAILS |
| A560 | HOLLOW METAL DOOR AND WINDOW, COILING DOOR DETAILS |
| A561 | GLAZING DETAILS |
| A562 | GLAZING DETAILS |
| A570 | TYPICAL CASEWORK DETAILS |
| A571 | CASEWORK DETAILS |
| A572 | CASEWORK DETAILS |
| A580 | RAILING DETAILS |
| A590 | FLOOR / THRESHOLD DETAILS |
| A600 | DOOR SCHEDULE |
| A601 | DOOR TYPES |
| A610 | WINDOW TYPES |
| A611 | WINDOW TYPES |
| A660 | SIGNAGE |
| STRUCTURAL | |
| S001 | STRUCTURAL NOTES |
| S002 | STRUCTURAL NOTES & SCHEDULES |
| S003 | SCHEDULES |
| S110 | OVERALL FOOTING AND FOUNDATION |
| S111 | AREA A FOOTING AND FOUNDATION PLAN |
| S112 | AREA B FOOTING AND FOUNDATION PLAN |
| S113 | AREA C FOOTING AND FOUNDATION PLAN |
| S120 | OVERALL SECOND FLOOR FRAMING PLAN |
| S122 | AREA B SECOND FLOOR FRAMING PLAN |
| S123 | AREA C SECOND FLOOR FRAMING |
| S130 | OVERALL RUNNING TRACK AND MEZZANINE FRAMING PLAN |
| S131 | AREA A RUNNING TRACK AND MEZZ. FRAMING PLAN |
| S132 | AREA B RUNNING TRACK AND MEZZ. FRAMING PLAN |
| S133 | AREA C FRAMING PLAN |
| S140 | OVERALL ROOF FRAMING PLAN |
| S141 | AREA A EXISTING ROOF TRACK SUPPORT PLAN |
| S141.1 | AREA A EXISTING ROOF UPGRADE PLAN |
| S142 | AREA B EXISTING ROOF TRACK SUPPORT PLAN |
| S142.1 | AREA B EXISTING ROOF UPGRADE PLAN |
| S143 | AREA C LOW ROOF FRAMING PLAN |
| S143.1 | AREA C HIGH ROOF FRAMING PLAN |
| S201 | BRACED FRAME ELEVATIONS |
| S202 | BRIDGE DETAILS |
| S203 | TRUSS UPGRADE ELEVATIONS |
| S204 | MOMENT FRAME ELEVATIONS |
| S205 | EXISTING WALL ELEVATIONS |
| S206 | METAL STUD FRAMING ELEVATIONS |
| S401 | TYPICAL DETAILS |
| S402 | TYPICAL DETAILS |
| S403 | DETAILS |
| S404 | DETAILS |
| S405 | DETAILS |
| S406 | DETAILS |
| S407 | DETAILS |
| S408 | DETAILS |
| S409 | METAL STUD FRAMING DETAILS |
| S901 | SCHEMATIC REFERENCE |
| MECHANICAL | |
| M001 | MECHANICAL LEGEND, SYMBOLS AND ABBREVIATIONS |
| M102D | SECOND FLOOR OVERALL MECHANICAL DEMOLITION PLAN |
| M121.1D | SECOND FLOOR AREA A & MECHANICAL ROOM MECHANICAL DEMOLITION PLAN |
| M122.1D | SECOND FLOOR AREA B MECHANICAL & PLUMBING DEMOLITION PLAN |
| F101 | FIRST FLOOR FIRE PROTECTION PLAN |
| F102 | SECOND FLOOR FIRE PROTECTION PLAN |
| M101 | FIRST FLOOR OVERALL MECHANICAL PLAN |
| M102 | SECOND FLOOR OVERALL MECHANICAL PLAN |
| M104 | ROOF OVERALL MECHANICAL AND PLUMBING PLAN |
| M105 | FIRST FLOOR OVERALL MECAHNICAL PIPING PLAN |
| M106 | SECOND FLOOR OVERALL MECHANICAL PIPING PLAN |
| M113.1 | FIRST FLOOR AREA C MECHANICAL PLAN |
| M121.1 | SECOND FLOOR AREA A MECHANICAL PLAN |
| M122.1 | SECOND FLOOR AREA B MECHANICAL PLAN |
| M123.1 | SECOND FLOOR AREA C MECHANICAL PLAN |
| M141.1 | ROOF AREA A MECHANICAL & PLUMBING ROOF PLAN |
| M142.1 | ROOF AREA B MECHANICAL & PLUMBING ROOF PLAN |
| M143.1 | ROOF AREA C MECHANICAL & PLUMBING ROOF PLAN |
| M117.1 | FIRST FLOOR AREA C MECHANICLA PIPING PLAN |
| M125.1 | SECOND FLOOR AREA A MECHANICAL PIPING PLAN |
| M126.1 | SECOND FLOOR AREA B MECHANICAL PIPING PLAN |
| M127.1 | SECOND FLOOR AREA C MECHANICAL PIPING PLAN |
| M201 | SCHEMATICS |
| M202 | SCHEMATICS |
| M203 | SCHEMATICS |
| M204 | SCHEMATICS |
| M205 | SCHEMATICS |
| M401 | ENLARGED MECHANICAL PLANS |
| M501 | MECHANICAL DETAILS |
| M502 | MECHANICAL DETAILS |
| M503 | MECHANICAL DETAILS |
| M601 | MECHANICAL SCHEDULES |
| M602 | MECHANICAL SCHEDULES |
| PLUMBING | |
| P101 | FIRST FLOOR OVERALL PLUMBING PLAN |
| P102 | SECOND FLOOR OVERALL PLUMBING PLAN |
| P111.1 | FIRST FLOOR AREA A PLUMBING PLAN |
| P112.1 | FRIST FLOOR AREA B PLUMBING PLAN |
| P113.1 | FIRST FLOOR AREA C PLUMBING PLAN |
| P123.1 | SECOND FLOOR AREAC PLUMBING PLAN |
| P401 | ENLARGED PLUMBING PLANS |
| P501 | PLUMBING DETAILS |
| P601 | PLUMBING SCHEDULES |
| Z113.1 | FIRST FLOOR AREA C ZONING PLAN |
| Z122.1 | SECOND FLOOR AREA B ZONING PLAN |
| Z123.1 | SECOND FLOOR AREA C ZONING PLAN |
| ELECTRICAL | |
| EE-001 | GENERAL NOTES AND SYMBOLS |
| EE-002 | LIGHT FIXTURE SCHEDULE |
| EE-003 | DETAILS |
| EE-004 | POWER SINGLE LINE DIAGRAM |
| EE-005 | PANEL SCHEDULES |
| EE-006 | PANEL SCHEDULES |
| EE-007 | FIRE ALARM RISER DIAGRAM & SCHEDULE |
| EDS-101 | DEMOLITION SITE PLAN - ELECTRICAL |
| ED-101A | LEVEL 01 DEMOLITION FLOOR PLAN AREA A - ELECTRICAL |
| ED-101B | LEVEL 01 DEMOLITION FLOOR PLAN AREA B - ELECTRICAL |
| ED-102A | LEVEL 02 DEMOLITION FLOOR PLAN AREA A - ELECTRICAL |
| ED-102B | LEVEL 02 DEMOLITION FLOOR PLAN AREA B - ELECTRICAL |
| ES-101 | SITE PLAN - ELECTRICAL |
| EP-101 | LEVEL 01 OVERALL - ELECTRICAL |
| EP-101A | LEVEL 01 FLOOR PLAN AREA A - ELECTRICAL |
| EP-101B | LEVEL 01 FLOOR PLAN AREA B - ELECTRICAL |
| EP-101C | LEVEL 01 FLOOR PLAN AREA C - ELECTRICAL |
| EP-102B | LEVEL 02 FLOOR PLAN AREA B - ELECTRICAL |
| EP-102C | LEVEL 02 FLOOR PLAN AREA C - ELECTRICAL |
| EP-103A | LEVEL 03 FLOOR PLAN AREA A - ELECTRICAL |
| EP-103B | LEVEL 03 FLOOR PLAN AREA B - ELECTRICAL |
| EP-103C | LEVEL 03 FLOOR PLAN AREA C - ELECTRICAL |
| EP-104 | ROOF PLAN AREA C - ELECTRICAL |
| EP-401 | ENLARGED PLANS - ELECTRICAL |
| EL-101A | LEVEL 01 REFLECTED CEILING PLAN AREA A - LIGHTING |
| EL-101B | LEVEL 01 REFLECTED CEILING PLAN AREA B - LIGHTING |
| EL-101C | LEVEL 01 REFLECTED CEILING PLAN AREA C - LIGHTING |
| EL-102A | LEVEL 02 REFLECTED CEILING PLAN AREA A - LIGHTING |
| EL-102B | LEVEL 02 REFLECTED CEILING PLAN AREA B - LIGHTING |
| EL-102C | LEVEL 02 REFLECTED CEILING PLAN AREA C - LIGHTING |
| EL-103A | LEVEL 03 REFLECTED CEILING PLAN AREA A - LIGHTING |
| EL-103B | LEVEL 03 REFLECTED CEILING PLAN AREA B - LIGHTING |
| EL-103C | LEVEL 03 REFLECTED CEILING PLAN AREA C - LIGHTING |


Grand total: 236


VCBO
ARCHITECTURE
VALENTINER CRANE BRUNJES ONYON

VCBO ARCHITECTURE
524 SOUTH 600 EAST
SALT LAKE CITY, UT 84102
Phone: (801) 575-8800
Fax: (801) 531-9850
WWW: www.vcbo.com


DFCM CODE COMPLIANCE STAMP

# Student Activity Center
## Stromberg Addition - BID SET
Weber State University
3750 Harrison Blvd. Ogden, UT 84408

Rev # Date Description

Job # 12475
CAD File
Drawn Author Checked Checker
Date 10.03.2012
Owner # DFCM #12031810

GENERAL INFORMATION AND INDEX

G001

10/3/2012 3:27:26 PM

## SPECIAL INSPECTIONS - DFCM

**SPECIFICATION DIVISIONS REQUIRING SPECIAL INSPECTIONS**

312300 SITE WORK - AS REQUIRED BY IBC 1704.7 "SOILS" SEE ALSO REQUIREMENTS ON GENERAL STRUCTURAL NOTES SHEETS; INSPECTION IS BY THE OWNERS AGENT.

033000 CONCRETE - AS REQUIRED BY IBC 1704.4 "CONCRETE CONSTRUCTION" AND IBC 1708.3 "REINFORCING AND PRESTRESSING STEEL" SEE ALSO REQUIREMENTS ON GENERAL STRUCTURAL NOTES SHEETS; INSPECTION IS BY THE OWNERS AGENT.

042200 UNIT MASONRY ASSEMBLIES - AS REQUIRED BY IBC 1708.3 "REINFORCING AND PRESTRESSING STEEL". SEE ALSO REQUIREMENTS ON GENERAL STRUCTURAL NOTES SHEETS; INSPECTION IS BY THE OWNERS AGENT.

042200 UNIT MASONRY ASSEMBLIES - HOT AND COLD WEATHER PLACEMENT REQUIREMENTS AS LISTED IN THIS SPECIFICATION SECTION. INSPECTION IS BY THE OWNERS AGENT.

051200 METALS - SEE REQUIREMENTS ON GENERAL STRUCTURAL NOTES SHEETS PERTAINING TO SPECIAL INSPECTION FOR STEEL COMPONENTS; INSPECTION IS BY THE OWNERS AGENT.

072400 EXTERIOR INSULATION AND FINISH SYSTEMS (EIFS). SPECIAL INSPECTIONS SHALL BE REQUIRED FOR ALL EIFS APPLICATIONS PER IBC 1704.12, INSPECTION IS BY THE OWNERS AGENT. EXCEPTIONS:

a. SPECIAL INSPECTIONS SHALL NOT BE REQUIRED FOR EIFS APPLICATIONS INSTALLED OVER A WATER- RESISTIVE BARRIER WITH A MEANS OF DRAINING MOISTURE TO THE EXTERIOR.

b. SPECIAL INSPECTIONS SHALL NOT BE REQUIRED FOR EIFS APPLICATIONS INSTALLED OVER MASONRY OR CONCRETE WALLS.

078100 SPRAYED FIRE-RESISTANT MATERIALS APPLIED TO STRUCTURAL ELEMENTS AND DECKS SHALL BE IN ACCORDANCE WITH IBC SECTIONS 1704.10.1 THROUGH 1704.10.5. SPECIAL INSPECTIONS SHALL BE BASED ON THE FIRE-RESISTANT DESIGN AS DESIGNATED IN THE APPROVED CONSTRUCTION DOCUMENTS IBC 2006, SECTION 1704.10). INSPECTION IS BY THE OWNERS AGENT.

084413 SEISMIC RESISTANCE INSPECTIONS SHALL BE PROVIDED FOR CURTAIN WALL PER IBC SECTION 1705.3 AND WIND RESISTANCE PER SECTION 1705.4. INSPECTION IS BY THE OWNERS AGENT.

092200 NON LOAD BEARING STEEL FRAMING - AS REQUIRED BY IBC 1707.7 "ARCHITECTURAL COMPONENTS"; INSPECTION IS BY THE OWNERS AGENT.

092900 GYPSUM BOARD - COLD WEATHER PLACEMENT REQUIREMENTS AS LISTED IN THIS SPECIFICATION SECTION. INSPECTION IS BY THE OWNERS AGENT.

095100 ACOUSTICAL CEILINGS - AS REQUIRED BY IBC 1705.3.4 "SEISMIC RESTRAINT"; INSPECTION IS BY THE OWNERS AGENT

210000 FIRE PROTECTION - AS REQUIRED BY IBC 901.5 "ACCEPTANCE TESTS"; INSPECTION IS BY THE LOCAL FIRE ATHORITY.

220548 SEISMIC RESTRAINTS - AS REQUIRED BY IBC SECTION 1707.1.3 "SPECIAL INSPECTIONS FOR SEISMIC RESISTANCE"; INSPECTION IS BY THE OWNERS AGENT.

231100 FUEL GAS PIPING - AS REQUIRED BY IBC SECTION 1707.8.3 "MECHANICAL AND ELECTRICAL COMPONENTS"; SPECIFICALLY APPLYING TO NATURAL GAS PIPING; INSPECTION IS BY THE OWNERS AGENT.

237400 ROOFTOP AIR CONDITIONERS - AS REQUIRED BY IBC SECTION 1707.8.5 "MECHANICAL AND ELECTRICAL COMPONENTS"; SPECIFICALLY APPLYING TO ROOF MOUNTED FANS, ROOFTOP UNITS AND AIR HANDLING UNITS; INSPECTION IS BY THE OWNERS AGENT.

260000 ELECTRICAL PER THE REQUIREMENTS OF ASCE 7, THE BUILDING OWNER WILL EMPLOY A SPECIAL INSPECTOR(S) TO OBSERVE THE CONSTRUCTION OF ALL DESIGNATED SEISMIC SYSTEMS IN ACCORDANCE WITH THE QUALITY ASSURANCE PLAN. PERIODIC SPECIAL INSPECTION DURING THE ANCHORAGE OF ELECTRICAL EQUIPMENT FOR EMERGENCY AND STANDBY POWER SYSTEMS, INCLUDING BUT NOT LIMITED TO:

a. EMERGENCY LIGHTING, WITH ASSOCIATED CONDUIT, WIRING AND DISTRIBUTION SYSTEM.

b. FIRE ALARM SYSTEM AND DEVICES, WITH ASSOCIATED CONDUIT, WIRING AND DISTRIBUTION SYSTEM.

## CODE ANALYSIS

APPLICABLE CODES

| BOOK | YEAR | BOOK | YEAR |
|---|---|---|---|
| International Building Code | 2009 IBC | National Electrical Code | NEC 2008 |
| International Mechanical Code | 2009 IMC | Uniform Code for Building Conservation | N/A |
| International Plumbing Code | 2009 IPC | ADA Accessibility Guidelines | ANSI A117.1 2006 |
| International Fire Code | 2009 IFC | | |
| International Energy Conservation Code | 2009 IEC | | |

Occupancy and Group: A3 OCCUPANCY
Change in Use: Yes _____ No X Mixed Occupancy: Yes _____ No X

A. Special Use and Occupancy (e.g. High Rise, Covered Mall): NO

B. Seismic Design Category: D Design Wind Speed: XX

C. Type of Construction (circle one):

I A | I B | II A | II B | III A | III B | IV HT | V A | V B

D. Fire Resistance Rating: Requirments for the Exterior Walls based on the fire separation distance (in hours):

North: X South: X East: 3HR West: X-

E. Mixed Occupancies: X Nonseparated Uses:

F. Sprinklers: IBC Section 903.3.1
Required: YES Provided: YES Type of Sprinkler System: XX

G. Number of Stories: 2 Building Height: 30'-0"

H. Actual Area per floor (square feet): NEW CONSTRUCTION

| | |
|---|---|
| 1 | 9,875 SQ. FT. |
| 2 | 12,647 SQ. FT. |
| MEZZ. | 8,384 SQ. FT. |
| TOTAL | 30,906 SQ. FT. |

L. Area Modifications: N/A

J. Unlimited Area Building: Yes X No _____ Code Section:
Fire Resistance Requirements for Building Elements (hours). Table 601

K. Fire Resistance Requirements for Building Elements (hours)

| Element | Hours | Assembly Listing | Element | Hours | Assembly Listing |
|---|---|---|---|---|---|
| Exterior Bearing Walls | 2 | | Floor | 2 | |
| Interior Bearing Walls | 2 | | Roof | 1 | |
| Exterior Non-Bearing Walls | 0 | | | | |
| Structural Frame | 2 | | | | |
| Partitions - Permanent | 0 | | | | |
| Fire Barriers | 3 | | | | |
| | | | | | |

**GROUP A3**

L. ROOF (4) Design Occupant Load: 0
Exit Width Required: 0 Exit Width Provided: 0
MEZZANINE (3) Design Occupant Load: 151
Exit Width Required: 45.3" Exit Width Provided: 159"
LEVEL (2) Design Occupant Load: 308
Exit Width Required: 78.6" Exit Width Provided: 192"
LEVEL (1) Design Occupant Load: 376
Exit Width Required: 75.4" Exit Width Provided: 928"

M. Minimum Number of Required Plumbing Facilities:

a) Water Closets - Required (m) 02 (f) 03 Provided (m) 02 (f) 03
b) Lavatories - Required (m) 01 (f) 01 Provided (m) 03 (f) 03
c) Bath Tubs or Showers - Required (m) 00 (f) 00 Provided (m) 02 (f) 02
d) Drinking Fountains: Required: 01 Provided: 02
e) Service Sinks: Required: 01 Provided: 01

FOOTNOTES:

1) In case of conflict with the U.S. Department of Justice Federal Registers Parts I through V - ADA Guidelines and specific reference to the International Building Code Accessibility Chapters, the more restrictive requirement shall govern.

2) Additional Code Information shall be provided at the discretion of the Building Official for Complex Buildings. Including, but not limited to:
a) High Rise Requirements.
b) Atriums.
c) Performance Based Criteria.
d) Means or Egress Analysis.
e) Fire Assembly Locator Sheet.
f) Exterior and Interior Accessibility Route.
g) Fire Stopping, Including Tested Design Number.

PLUMBING FIXTURE ANALYSIS, IBC 2902

| A3 OCCUPANCY TYPE | | WATER CLOSETS REQ'D. / PRVD | | | LAVS. REQ'D. / PRVD | | | D.F. INCL BOTTLE WATER REQ'D. / PRVD | | |
|---|---|---|---|---|---|---|---|---|---|---|
| 1ST FLOOR OCCUPANTS | **66.0** | **0.5** | 0.0* | MALE: 1 PER 125 | **0.3** | 0.0* | MALE: 1 PER 200 | **0.1** | 2.0 | 1 PER 500 |
| 50% MALE AND FEMALE | 33.0 | 0.2 | 0.0* | FEMALE: 1 PER 65 | 0.1 | 0.0* | FEMALE: 1 PER 200 | - | - | |
| 2ND FLOOR OCCUPANTS | **130.0** | **1.0** | 6.0 | | **0.6** | 6.0 | | **0.26** | 4.0 | |
| 50% MALE AND FEMALE | 65.0 | 0.2 | 3.0 | | 0.3 | 3.0 | | - | - | |
| 3RD FLOOR OCCUPANTS | **151.0** | **1.2** | 0.0* | | **0.7** | 0.0* | | **0.3** | 2.0 | |
| 50% MALE AND FEMALE | 75.5 | 0.6 | 0.0* | | 0.4 | 0.0* | | - | - | |
| TOTALS | **347.0** | **2.7** | 6.0 | | **1.6** | 6.0 | | **0.6** | 8.0 | |

PER IBC 2902.3.2

## DEFERRED SUBMITTALS - DFCM

CONTRACTOR IS RESPONSIBLE TO SUBMIT DEFERRED SUBMITTALS IN ACCORDANCE WITH IBC 106.3.4.2. AS PART OF THE SUBMITTAL PROCESS, THE CONTRACTOR IS TO SUBMIT ALL ICC ERS REPORTS FOR ITEMS NOTED.

- OPEN WEB STEEL ROOF JOISTS AND GIRDERS
- METAL FABRICATIONS (STAIRS AND LADDERS)
- PREFABRICATED SUN SHADES
- ROOFING MATERIALS
- STRUCTURAL GLAZING
- SUSPENDED CEILING SYSTEMS
- MECHANICAL SEISMIC RESTRAINTS
- MASONRY ANCHORS
- FIRE PROTECTION PER 106.1.1.1
- FIRE ALARM SYSTEMS
- ELECTRICAL SEISMIC RESTRAINTS
- RAMMED AGGREGATE PIER

NOTE:
RAMMED AGGREGATE PIER SUBMITTAL MUST BE INCLUDED IN BULDING OFFICIAL REVIEW. NO BUILDING PERMIT WILL BE ISSUED PRIOR TO APPROVED SUBMITTAL REVIEW.


VCBO
ARCHITECTURE
VALENTINER
CRANE
BRUNJES
ONYON

REGISTERED ARCHITECT
No. 13392
BRENT R. TIPPETS
10-2-12
STATE OF UTAH

VCBO ARCHITECTURE
524 SOUTH 600 EAST
SALT LAKE CITY, UT 84102
Phone: (801) 575-8800
Fax: (801) 531-9850
WWW: www.vcbo.com


DFCM CODE COMPLIANCE STAMP

# Student Activity Center
## Stromberg Addition - BID SET
Weber State University
3750 Harrison Blvd. Ogden, UT 84408

| Rev # | Date | Description |
|---|---|---|

Job # 12475
CAD File
Drawn Author Checked Checker
Date 10.03.2012
Owner # DFCM #12031810

GENERAL INFORMATION

G002

10/3/2012 1:13:33 PM

# SPECIAL INSPECTION AND TESTING ITEMS REQUIRED BY CHAPTER 17 OF THE 2009 IBC

Indicate items requiring special inspection or structural testing by checking the appropriate box. All items not requiring inspection/testing should be removed from the form. For items requiring continuous inspection, a special inspector must be present onsite during the performance of that task. In most cases "periodic" inspections/tests shall be performed prior to commencing the task, intermittently during the task, and at the completion of the task. The "Detailed Instructions & Frequency" provides a description of the presumed requirements for tasks requiring "periodic" inspections. The design professional in responsible should revise the requirements as needed on a project-specific basis.

FABRICATORS (IBC 1704.2)

| ☐ Approved Fabricator | Yes | No |
|---|---|---|

| ☐ Unapproved Fabricator | Yes | No |
|---|---|---|

| | |
|---|---|
| Fabricators Name: | |
| Fabricators plant location | |
| Required In-plant Inspections | ☐ Steel Construction ☐ Concrete Construction ☐ Wood Construction<br>☐ Cold-formed Construction ☐ Other: _____ ☐ Other: _____ |

STEEL CONSTRUCTION (IBC 1704.3, 1707.2 & 1708.3)

| Item | | | Detailed Instructions and Frequencies |
|---|---|---|---|
| **WELDING (1704.3.1)** | | | |
| Complete & partial penetration groove welds | ☒ Continuous | ☐ Periodic | |
| Multi-pass fillet welds | ☒ Continuous | ☐ Periodic | |
| Single-pass fillet welds > 5/16" | ☒ Continuous | ☐ Periodic | |
| Plug, slot, seam or flange welds | ☒ Continuous | ☐ Periodic | |
| Single-pass fillet welds ≤ 5/16" | ☐ Continuous | ☒ Periodic | Pre-welding inspections are to be performed to ensure that proper materials (i.e. structural steel, weld filler material, etc.), welding procedures, and welding personnel qualifications are appropriate. A visual inspection of all welds must be provided with periodic inspections made of work in progress. |
| Floor & roof deck welds | ☐ Continuous | ☒ Periodic | |
| Shear connector (i.e. stud) welds | ☐ Continuous | ☒ Periodic | |
| Cold-formed steel welds | ☐ Continuous | ☒ Periodic | |
| Welds of stairs & railing systems | ☐ Continuous | ☒ Periodic | |
| **DETAILS OF STEEL FRAME (1704.3.2)** | | | |
| Member locations, bracing, gusset plates, stiffeners and other connection components | ☐ Continuous | ☒ Periodic | All steel frames shall be inspected to verify compliance with the approved construction documents, such as bracing, stiffening, member size and location, and proper application of joint details at each connection. |
| **HIGH-STRENGTH BOLTING (1704.3.3)** | | | |
| Snug-tightened joints | ☐ Continuous | ☒ Periodic | Verify that all joints use proper fastener components, connected elements are fabricated properly, the bolted joint is drawn into firm contact, and that the nuts cannot be removed without the use of a wrench (see Section 9.1 of 2009 RCSC Specification). |
| **STRUCTURAL STEEL (IBC 1707.2 & 1708.3)** | | | |



| | | | |
|---|---|---|---|
| Visual inspection prior to welding | ☒ Continuous | | |
| Visual inspection during welding | ☒ Continuous | | |
| Visual inspection after welding | | ☒ Periodic | Verify that welds are clean; welder identification is legible; size, length and location of welds; verify that welds meet acceptance criteria; placement of reinforcement fillets; removal of backing bars and weld tabs as required; and repair activities (see Section Q5.1 of AISC 341-05). |
| Nondestructive testing | ☒ Continuous | | |
| Inspection prior to bolting | ☒ Continuous | | |
| Inspection during bolting | ☒ Continuous | | |
| Inspection after bolting | | ☒ Periodic | Document accepted and rejected connections (see Section Q5.3 of AISC 341-05). |
| Reduced beam sections (RBS) | | ☒ Periodic | Verify contour and finish as well as dimensional tolerances (see Section Q5.4 of AISC 341-05). |
| Protected zones | | ☒ Periodic | Verify that no holes or unapproved attachments are made within the protected zone (see Section Q5.4 of AISC 341-05). |

CONCRETE CONSTRUCTION (IBC 1704.4 & 1708.2)

| Item | | | Detailed Instructions and Frequencies |
|---|---|---|---|
| Reinforcing steel, including prestressing tendons | ☐ Continuous | ☒ Periodic | Verify prior to placing concrete that reinforcing is of specified type, grade and size; that it is free of oil, dirt and rust; that it is located and spaced properly; that hooks, bends, ties, stirrups and supplemental reinforcement are placed correctly; that lap lengths, stagger and offsets are provided; and that all mechanical connections are installed per the manufacturer's instructions and/or evaluation report. |
| Welding of reinforcing steel | ☐ Continuous | ☒ Periodic | Verify weldability of reinforcing steel other than A706. Continuous inspection is required for welding of reinforcing steel used in intermediate or special concrete moment frames, boundary elements of special structural walls or shear reinforcement. |
| Cast-in bolts & embeds | ☒ Continuous | ☐ Periodic | |
| Post-installed anchors or dowels | ☐ Continuous | ☐ Periodic | All post-installed anchors/dowels shall be specially inspected as required by the approved ICC-ES report. |
| Use of required mix design | ☐ Continuous | ☒ Periodic | Verify that all mixes used comply with the approved construction documents; ACI 318: Ch. 4, 5.2-5.4; and IBC 1904.3, 1913.2, 1913.3. |
| Concrete sampling for strength tests, slump, air content, and temperature | ☒ Continuous | ☐ Periodic | |
| Concrete & shotcrete placement | ☒ Continuous | ☐ Periodic | |
| Curing temperature and techniques | ☐ Continuous | ☒ Periodic | Verify that the ambient temperature for concrete is kept at > 50°F for at least 7 days after placement. High-early-strength concrete shall be kept at > 50°F for at least 3 days. Accelerated curing methods may be used (see ACI 318: 5.11.3). The ambient temperature for shotcrete shall be > 40°F for the same period of time as noted for concrete. Shotcrete shall be kept |



| | | | |
|---|---|---|---|
| | | | continuously moist for at least 24 hours after shotcreting. All concrete materials, reinforcement, forms, fillers, and ground shall be free from frost. In hot weather conditions ensure that appropriate measures are taken to avoid plastic shrinkage cracking and that the specified water/cement ratio is not exceeded. |
| Strength verification | ☐ Continuous | ☒ Periodic | Verify that adequate strength has been achieved prior to the removal of shores and forms or the stressing of post-tensioned tendons. |
| Formwork | ☐ Continuous | ☒ Periodic | Verify that the forms are placed plumb and conform to the shapes, lines, and dimensions of the members as required by the approved construction documents. |
| Reinforcement in special structural walls and coupling beams | ☐ Continuous | ☒ Periodic | Verify that ASTM A 615 reinforcing steel used in these areas complies with ACI 318: 21.1.5.2 by means of certified mill test reports. If this reinforcing steel is to be welded chemical tests shall be performed in accordance with ACI 318: 3.5.2. |

MASONRY CONSTRUCTION (IBC 1704.5)

| Item | | | Detailed Instructions and Frequencies |
|---|---|---|---|
| Review material certificates, mix designs, test results and construction procedures | ☐ Continuous | ☒ Periodic | It shall be confirmed that materials used conform to the requirements of the approved construction documents. Mortar mix designs shall show compliance with the proportion or property specification of ASTM C270. Grout shall comply with the proportion or strength requirements of ASTM C476 or be based upon compressive strength tests in accordance with ASTM C1019. Material certificates shall be provided for the following: reinforcement; anchors, ties, fasteners, and metal accessories; masonry units; mortar and grout materials. Construction procedures for cold-weather or hot-weather construction shall be reviewed. |
| Verify $f'_m$ and $f'_{AAC}$ prior to construction | ☐ Continuous | ☒ Periodic | Determine the compressive strength for each wythe by the "unit strength method" or by the "prism test method" as specified in Section 1.4B of ACI 530.1-08 prior to construction. For Occupancy Category IV this should be verified at every 5,000ft² of construction. |
| Self-consolidating grout | ☒ Continuous | ☐ Periodic | |
| Grout placement | ☒ Continuous | ☐ Periodic | |
| Preparation of required grout specimens, mortar specimens and/or prisms shall be observed | ☐ Continuous | ☒ Periodic | If the prism test method is used a minimum of three prisms shall be constructed in accordance with ASTM C1314. If the unit strength method is selected the compressive strength of the grout shall be determined per ASTM C1019 (not required if grout complies with ASTM C476). Continuous inspection required for Occupancy Category IV structures. |
| Post-installed anchors or dowels | ☐ Continuous | ☐ Periodic | All post-installed anchors/dowels shall be specially inspected as required by the approved ICC-ES report. |
| **PRIOR TO GROUTING:** | | | |
| Grout space is clean | ☐ Continuous | ☒ Periodic | Verify that grout space is free of mortar droppings, debris, loose aggregate, and material deleterious to |



| | | | |
|---|---|---|---|
| | | | masonry grout. Continuous inspection required for Occupancy Category IV structures. |
| Placement of reinforcement an connectors, and prestressing tendons and anchorages | ☐ Continuous | ☒ Periodic | Verify that reinforcement, joint reinforcement, wall ties, anchor bolts and veneer anchors are installed in accordance with Section 3.4 of ACI 530.1-08. |
| Proportions of site-prepared grout and prestressing grout | ☐ Continuous | ☒ Periodic | Verify that grout is proportioned per ASTM C476 and has a slump between 8-11 inches. Self-consolidated grout shall not be proportioned onsite. |
| **AS MASONRY CONSTRUCTION BEGINS:** | | | |
| Proportions of site-prepared mortar | ☐ Continuous | ☒ Periodic | Ensure that mortar that begins to stiffen or is not used within 2½ hours is discarded. No admixtures containing > 0.2% chlorides shall be used. Jobsite pigments shall meet the limitations of Section 2.6A of ACI 530.1-08. |
| Construction of mortar joints | ☐ Continuous | ☒ Periodic | Unless specified otherwise construct 3/8" bed and head joints, except at foundation or glass unit masonry. Bed joint at foundation shall be >1/4" and ≤ 3/4". Tool joints with a round jointer when mortar is thumbprint hard. Remove masonry protrusions extending ≥ 1/2" into cells to be grouted. Solidly fill collar joints < 3/4" with mortar during construction. |
| Location of reinforcement, connectors, prestressing tendons and anchorages | ☐ Continuous | ☒ Periodic | Verify compliance with approved construction documents. Do not place dissimilar metals in contact with each other. Prestressing tendon placement shall conform to Section 3.6A of ACI 530.1-08. |
| **DURING CONSTRUCTION:** | | | |
| Size and location of structural elements | ☐ Continuous | ☒ Periodic | Verify that structural elements are placed in locations specified on the approved construction documents and to the tolerances noted in Section 3.3F of ACI 530.1-08. |
| Type, size and location of anchors and other details of masonry anchorages to structural members | ☐ Continuous | ☒ Periodic | Verify that structural elements are placed in locations specified on the approved construction documents. Headed or bent bar anchor bolts shall be embedded in grout. Continuous inspection required for Occupancy Category IV structures. |
| Size, grade and type of reinforcement, prestressing tendons and metal accessories | ☐ Continuous | ☒ Periodic | Verify that materials meet the requirements of Section 2.4 of ACI 530.1-08. All reinforcement shall be placed in grout with minimum grout cover of 1/2" for coarse grout and 1/4" for fine grout. Verify that reinforcement protection, standard hooks and minimum bend diameters comply with Section 1.15 of ACI 530-08. |
| Welding of reinforcing bars | ☒ Continuous | ☐ Periodic | |
| Preparation, construction and protection of masonry during cold or hot weather construction | ☐ Continuous | ☒ Periodic | When the ambient air temperature is <40°F ensure that construction complies with Section 1.8C of ACI 530.1-08. When the ambient air temperature is >100°F, or >90°F with a wind velocity >8mph, ensure that construction complies with Section 1.8D of ACI 530.1-08. |

SOILS CONSTRUCTION (IBC 1704.7)

| Item | Detailed Instructions and Frequencies |
|---|---|



| | | | |
|---|---|---|---|
| Verify subgrade is adequate to achieve design bearing capacity | ☐ Continuous | ☒ Periodic | Prior to placement of concrete. |
| Verify excavations extend to proper depth and material | ☐ Continuous | ☒ Periodic | Prior to placement of compacted fill or concrete. |
| Verify that subgrade has been appropriately prepared prior to placing compacted fill | ☐ Continuous | ☒ Periodic | Prior to placement of compacted fill. |
| Perform classification and testing of compacted fill materials | ☐ Continuous | ☒ Periodic | All materials shall be checked at each lift for proper classifications and gradations not less than once for each 10,000ft² of surface area. |
| Verify proper materials, densities and lift thicknesses during placement and compaction. | ☒ Continuous | ☐ Periodic | |

PIER FOUNDATIONS (IBC 1704.8)

| Item | | | Detailed Instructions and Frequencies |
|---|---|---|---|
| Verify materials, sizes and lengths | ☒ Continuous | ☐ Periodic | |
| Determine capacities and conduct necessary load tests | ☒ Continuous | ☐ Periodic | |
| Observe drilling operations | ☒ Continuous | ☐ Periodic | |
| Verify placement locations & plumbness | ☒ Continuous | ☐ Periodic | |
| Perform additional inspections for steel, concrete or other specialty elements. | ☐ Continuous | ☐ Periodic | Specialty items per registered design professional |

HELICAL PILE FOUNDATIONS (IBC 1704.10)

| Item | | | Detailed Instructions and Frequencies |
|---|---|---|---|
| Record installation equipment used, pile dimensions, tip elevations, final depth and final installation torque | ☒ Continuous | ☐ Periodic | |
| Verify that helical piles used match the approved submittal | ☒ Continuous | ☐ Periodic | |

SPRAYED FIRE-RESISTANT MATERIALS (IBC 1704.12)

| Item | | | Detailed Instructions and Frequencies |
|---|---|---|---|
| Surface preparation | ☐ Continuous | ☒ Periodic | Prior to application confirm that surface has been prepared per the approved fire-resistance design and manufacturer's instructions. |
| Material thickness | ☐ Continuous | ☒ Periodic | Samples shall be taken from selected floor, roof and wall assemblies and structural members. No more than 10% of the samples shall be less than the thickness required by the fire-resistance design. |
| Material density | ☐ Continuous | ☒ Periodic | Density tests shall be performed in accordance with ASTM E 605 for every 2,500ft² of floor, roof or wall area. One sample must also be provided for each beam, girder, truss or column at each story. |
| Bonding strength | ☐ Continuous | ☒ Periodic | Bond strength tests shall be performed in accordance with ASTM E 736 for every 2,500ft² of floor, roof or wall area. One sample must also be provided for each |



| | | | |
|---|---|---|---|
| | | | beam, girder, truss or column at each story. The bond strength shall not be less than 150psf. |

MASTIC AND INTUMESCENT FIRE-RESISTANT COATINGS (IBC 1704.13)

| Item | | | Detailed Instructions and Frequencies |
|---|---|---|---|
| Surface preparation | ☐ Continuous | ☒ Periodic | Prior to application confirm that surface temperature and substrate are acceptable and that a compatible primer is used. |
| Thickness | ☐ Continuous | ☒ Periodic | Record thickness of primer or other existing coating on substrate prior to application of coating. Final thickness of coating must be conducted in multiple locations prior to application of top coat (see AWCI Technical Manual 12-B). |

EXTERIOR INSULATION AND FINISH SYSTEMS (EIFS) (IBC 1704.142)

| Item | | | Detailed Instructions and Frequencies |
|---|---|---|---|
| Material and installation | ☐ Continuous | ☒ Periodic | Verify that water-resistive barrier is installed appropriately over a sheathing substrate. Performed by code inspection firm. (Not required if applied over concrete, masonry, or if a means of draining moisture to exterior is provided.) |

SPECIAL CASES (IBC 1704.15) – material alternatives or unusual design applications

| Item | | | Detailed Instructions and Frequencies |
|---|---|---|---|
| Material and installation | ☐ Continuous | ☐ Periodic | Per design professional in responsible charge or report from an accepted accreditation agency (i.e. ICC-ES). |

SMOKE CONTROL (IBC 1704.16)

| Item | | | Detailed Instructions and Frequencies |
|---|---|---|---|
| Verify device locations and perform leakage testing | ☐ Continuous | ☒ Periodic | During erection of ductwork and prior to concealment. As defined by rational analysis. |
| Pressure difference testing, flow measurements and detection and control verification | ☐ Continuous | ☒ Periodic | Prior to occupancy and after sufficient completion. As defined by rational analysis. |

ARCHITECTURAL COMPONENTS (IBC 1707.6)

| Item | | | Detailed Instructions and Frequencies |
|---|---|---|---|
| Erection and fastening of exterior cladding or interior and exterior veneers | ☐ Continuous | ☒ Periodic | Verify appropriate materials, fasteners and attachment at commencement of work and at completion. Performed by code inspection firm. (Not required if < 30 feet or less than 5psf). |
| Erection and fastening of interior and exterior nonbearing walls | ☐ Continuous | ☒ Periodic | Verify appropriate materials, fasteners and attachment at commencement of work and at completion. Performed by code inspection firm. (Not required if < 30 feet or for interior walls < 15psf). |

MECHANICAL & ELECTRICAL COMPONENTS (IBC 1707.7, 1707.8 & 1708.4)

| Item | | | Detailed Instructions and Frequencies |
|---|---|---|---|
| Anchorage of emergency or standby power systems | ☐ Continuous | ☒ Periodic | Verify that anchorage complies with approved construction documents. Performed by code |



| | | | |
|---|---|---|---|
| | | | inspection firm. |
| Installation of piping systems carrying flammable, combustible or highly toxic materials | ☐ Continuous | ☒ Periodic | Verify that installation and restraint comply with approved construction documents. Performed by code inspection firm. |
| Installation of HVAC ductwork containing hazardous materials | ☐ Continuous | ☒ Periodic | Verify that installation and restraint comply with approved construction documents. Performed by code inspection firm. |
| Installation of vibration isolation systems having a clearance of ≤¼" | ☐ Continuous | ☒ Periodic | Verify that installation complies with approved construction documents and manufacturer's recommendations. Performed by code inspection firm. |
| Designated seismic systems | ☐ Continuous | ☒ Periodic | Confirm that manufacturer's certificate of compliance conforms to the requirements of Section 13.2.1 of ASCE 7-05. Verify that the label, anchorage or mounting conforms to the manufacturer's certificate of compliance. Performed by code inspection firm. |

MISCELLANEOUS AREAS — Detailed Instructions and Frequencies

These inspections are recommended by the Architect/Engineer and approved by DFCM.

| | | | |
|---|---|---|---|
| Suspended Ceiling Grid Clips | ☐ Continuous | ☒ Periodic | Performed by code inspection firm. |
| Suspended Ceiling wire spacing (Seismic) | ☐ Continuous | ☒ Periodic | Performed by code inspection firm. |
| Soils backfill (specify locations and frequency) | ☐ Continuous | ☒ Periodic | Verify that backfill is placed in specified lifts with proper material, and proper compaction. |
| Soils for curb and gutter (specify locations and frequency) | ☐ Continuous | ☒ Periodic | Verify the use of approved material with proper compaction every 100 FT. |
| Soils for parking lots (specify locations and frequency) | ☐ Continuous | ☒ Periodic | Verify material, thickness and compaction very 3,000FT. |
| Soils for utility trench backfill | ☐ Continuous | ☒ Periodic | Verify material, lifts and compaction every trench or every 50 FT. |
| Reinforcement for slab on grade sidewalks and drive approaches (specify locations and frequency) | ☒ Continuous | ☐ Periodic | Verify specified placement, sizes, spacing and installation. |
| Reinforcement for interior slab on grade (specify locations and frequency) | ☒ Continuous | ☐ Periodic | Verify specified placement sizes, spacing and installation. |
| Concrete testing for slab on grade sidewalks and drive approaches (specify locations and frequency) | ☐ Continuous | ☒ Periodic | Concrete testing of slump, mix, climate conditions, and strength at each drive approach and every 100FT. of sidewalk. |
| Concrete testing for interior slab on grade (specify locations and frequency) | ☐ Continuous | ☒ Periodic | Concrete testing of slump, mix, climate conditions and strength for each 1,500 FT. |
| Asphalt inspection (specify locations and frequency) | ☐ Continuous | ☒ Periodic | Asphalt testing for placement, climate conditions and mix for every 3,000 FT. |
| Asphalt testing (specify locations and frequency) | ☐ Continuous | ☒ Periodic | Asphalt testing for placement, climate conditions and mix for every 3,000 FT. |
| Steam and water line welding (specify locations and frequency) | ☒ Continuous | ☐ Periodic | Inspect all welds for specification conformance. |
| Seismic supports for duct work and sealing of joints for duct work | ☒ Continuous | ☐ Periodic | Inspect for engineered compliance. |
| Seismic supports for electrical raceways, cable trays and lights | ☒ Continuous | ☐ Periodic | Inspect for engineered compliance. |



| | | | |
|---|---|---|---|
| Seismic supports for plumbing lines including gas, water and steam and condensation | ☒ Continuous | ☐ Periodic | Inspect for engineered compliance. |
| Seismic bracing for mechanical units both on slab and suspended | ☒ Continuous | ☐ Periodic | Inspect for engineered compliance. |

Special Inspectors Shall:

- Be approved by the Building Official prior to performing any duties;
- Provide proof of licensure as a special inspector by the State of Utah for each type of inspection;
- Inspection reports are to meet the requirements of IBC 1704.1.2 and DFCM standards;
- Inspection reports are to be submitted to the code consultant, architect, DFCM project manager, and the State of Utah Building Official within 48 hours of performing inspections;
- A final inspection report shall be submitted following completion of the project documenting the types of special inspections performed and a statement indicating that the structure is in compliance with the approved construction documents and applicable codes (see IBC 1704.1.2).

Updated October, 2012



VCBO ARCHITECTURE
ARCHITECTURE
VALENTINER
CRANE
BRUNJES
ONYON

VCBO ARCHITECTURE
524 SOUTH 600 EAST
SALT LAKE CITY, UT 84102
Phone: (801) 575-8800
Fax: (801) 531-9850
www: www.vcbo.com

DFCM CODE COMPLIANCE STAMP

# Student Activity Center
## Stromberg Addition - BID SET
Weber State University
3750 Harrison Blvd. Ogden, UT 84408

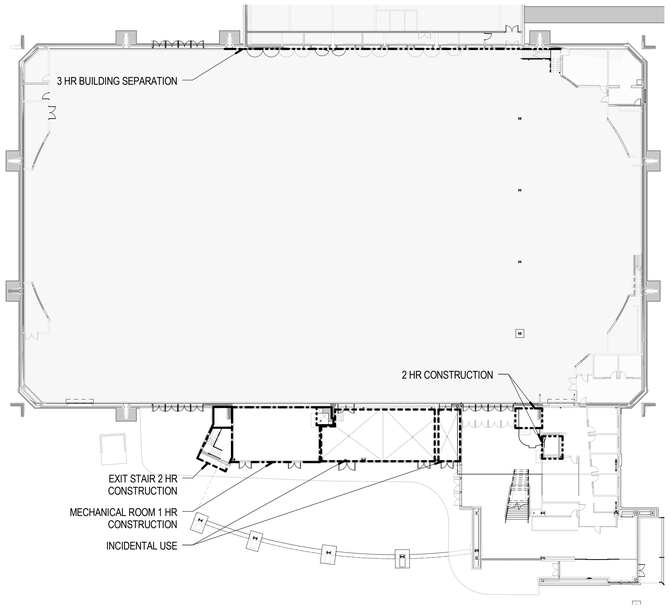
Rev # Date Description

Job # 12475
CAD File
Drawn Author Checked Checker
Date 10.03.2012
Owner # DFCM #12031810

SPECIAL INPSPECTIONS

G003

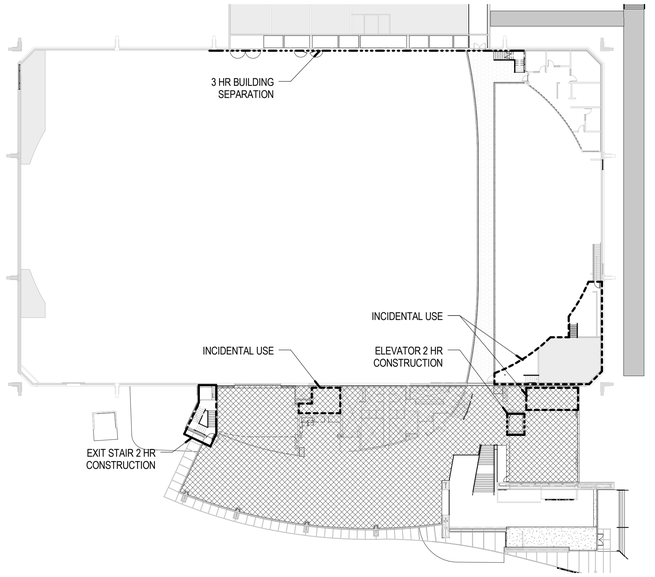
10/3/2012 1:13:36 PM




C1 LEVEL 01 - FIRE SEPARATION

SCALE: 1" = 30'-0"

0' 15' 30' 60' 90'




C4 LEVEL 02 - FIRE SEPARATION

SCALE: 1/32" = 1'-0"

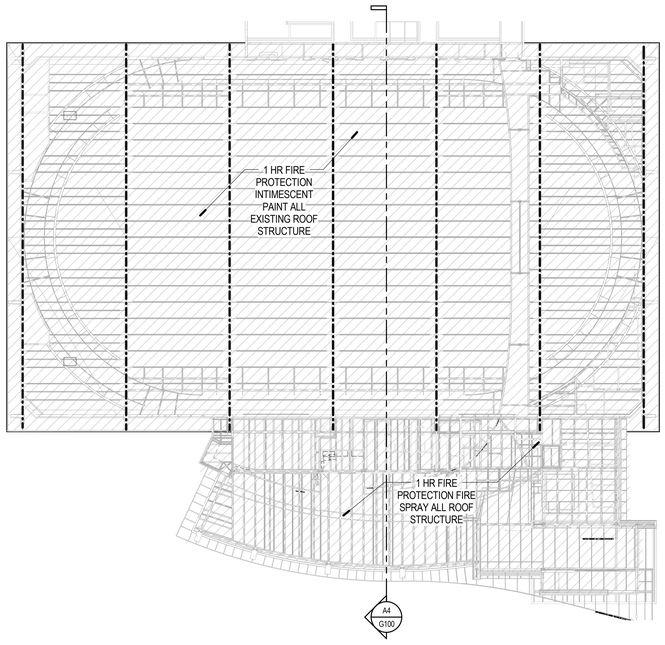
0' 15' 30' 60' 90'

## FIRE RATING KEY

- INCIDENTAL USE
- 1 HR CONSTRUCTION
- 2 HR CONSTRUCTION
- 3 HR CONSTRUCTION

**NOTE:**
REQUIRED FIRE-RESISTIVE ASSEMBLIES WILL BE ACCOMPLISHED AS FOLLOWS AND PER THE FOLLOWING UL, RATED ASSEMBLIES CALLED OUT ON SHEETS G100, G101, G102, G103, G200, G201 AND THE WALL TYPES SHEET A500 AND A501:

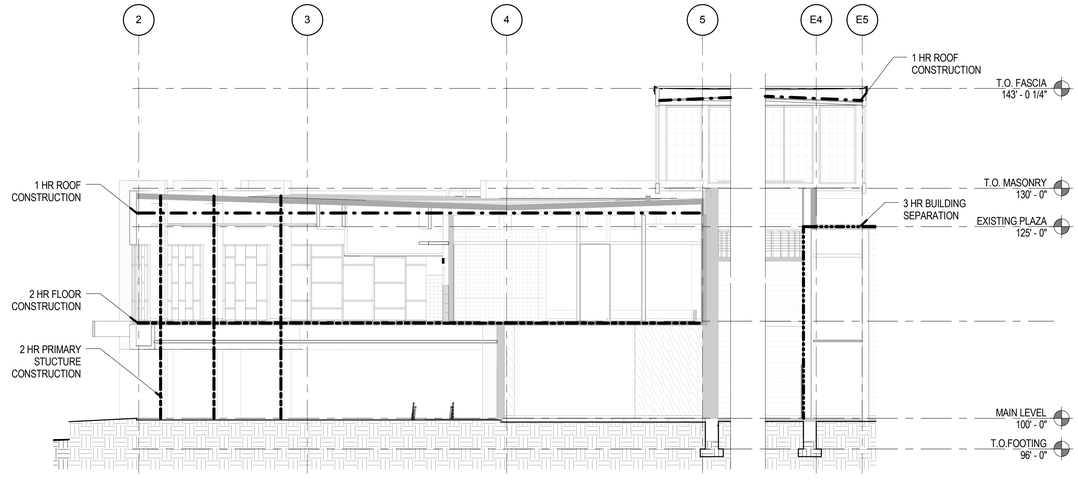
- STRUCTURAL STEEL COLUMNS 2 HOUR SPRAY APPLIED FIREPROOFING PER X771 AND X772
- ALL ATTACHMENTS TO THE COLUMNS AND BEAMS ARE TO BE APPLIED PRIOR TO THE SPRAY APPLIED FIREPROOFING AND TO BE PROTECTED IN PLACE.




A1 FIRE RATED PLAN - RCP LEVEL 03

SCALE: 1" = 30'-0"

0' 15' 30' 60' 90'




A4 FIRE SEPARATION

SCALE: 1/8" = 1'-0"

0' 15' 30' 60' 90'

VCBO
ARCHITECTURE
VALENTINER
CRANE
BRUNJES
ONYON

LICENSED ARCHITECT
5139722
BRENT R. TIPPETS
10-2-12
STATE OF UTAH

VCBO ARCHITECTURE
524 SOUTH 600 EAST
SALT LAKE CITY, UT 84102
Phone: (801) 575-8800
Fax: (801) 531-9850
WWW: www.vcbo.com

DFCM CODE COMPLIANCE STAMP

# Student Activity Center
## Stromberg Addition - BID SET
Weber State University
3750 Harrison Blvd. Ogden, UT 84408

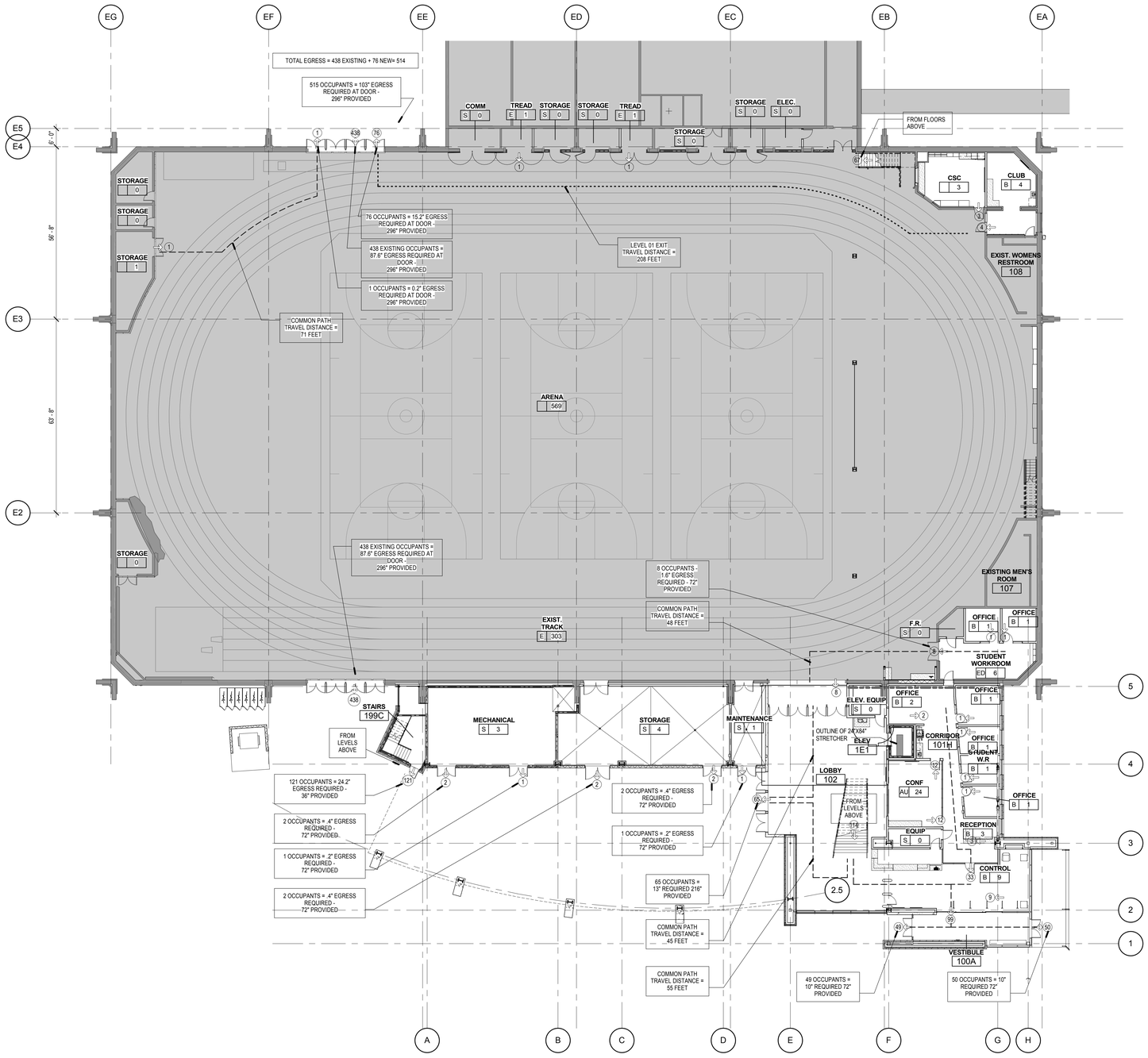
| Rev # | Date | Description |
|---|---|---|

Job # 12475
CAD File
Drawn Author Checked Checker
Date 10.03.2012
Owner # DFCM #12031810

FIRE SEPARATION PLANS

G100

10/3/2012 1:13:56 PM




## OCCUPANCY LOAD

B 3 — OCCUPANT NUMBER
OCCUPANCY TYPE

| | | |
|---|---|---|
| AU | ASSEMBLY UNCONCENTRATED WITHOUT FIXED SEATS (TABLES AND CHAIRS ) | 7 SF PER OCCUPANT NET |
| B | BUSINESS AREAS | 100 SF PER OCCUPANT GROSS |
| E | EXERCISE ROOMS | 50 SF PER OCCUPANT GROSS |
| ED | EDUCATIONAL | 50 SF PER OCCUPANT NET |
| L | LOCKER ROOMS | 50 S.F. PER OCCUPANT GROSS |
| S | ACCESSORY STORAGE AREAS, MECHANICAL EQUIPMENT ROOM | 300 S.F. PER OCCUPANT NET |

OCCUPANCY TYPES BASED ON IBC TABLE 1004.1.1

## TOTAL OCCUPANCY PER FLOOR

| | NEW | EXIST. |
|---|---|---|
| TOTAL OCCUPANTS LEVEL 1 - | 66 | 876 |
| TOTAL OCCUPANTS LEVEL 2 - | 130 | 0 |
| TOTAL OCCUPANTS LEVEL 3 - | 151 | 0 |
| TOTAL OCCUPANTS - | 347 | 876 |

## LEGEND

EXIT PATH
COMMON PATH
DIRECTION OF TRAVEL
OCCUPANT LOAD NUMBER — XXX

NORTH

A2 LEVEL 01 EGRESS PLAN
SCALE: 1/16" = 1'-0"
0' 8' 16' 32' 48'

VCBO
ARCHITECTURE
VALENTINER
CRANE
BRUNJES
ONYON

STATE OF UTAH
LICENSED ARCHITECT
5139742
BRENT R. TIPPETS
10-2-12

VCBO ARCHITECTURE
524 SOUTH 600 EAST
SALT LAKE CITY, UT 84102
Phone: (801) 575-8800
Fax: (801) 531-9850
WWW: www.vcbo.com

DFCM CODE COMPLIANCE STAMP

# Student Activity Center
## Stromberg Addition - BID SET
Weber State University
3750 Harrison Blvd. Ogden, UT 84408

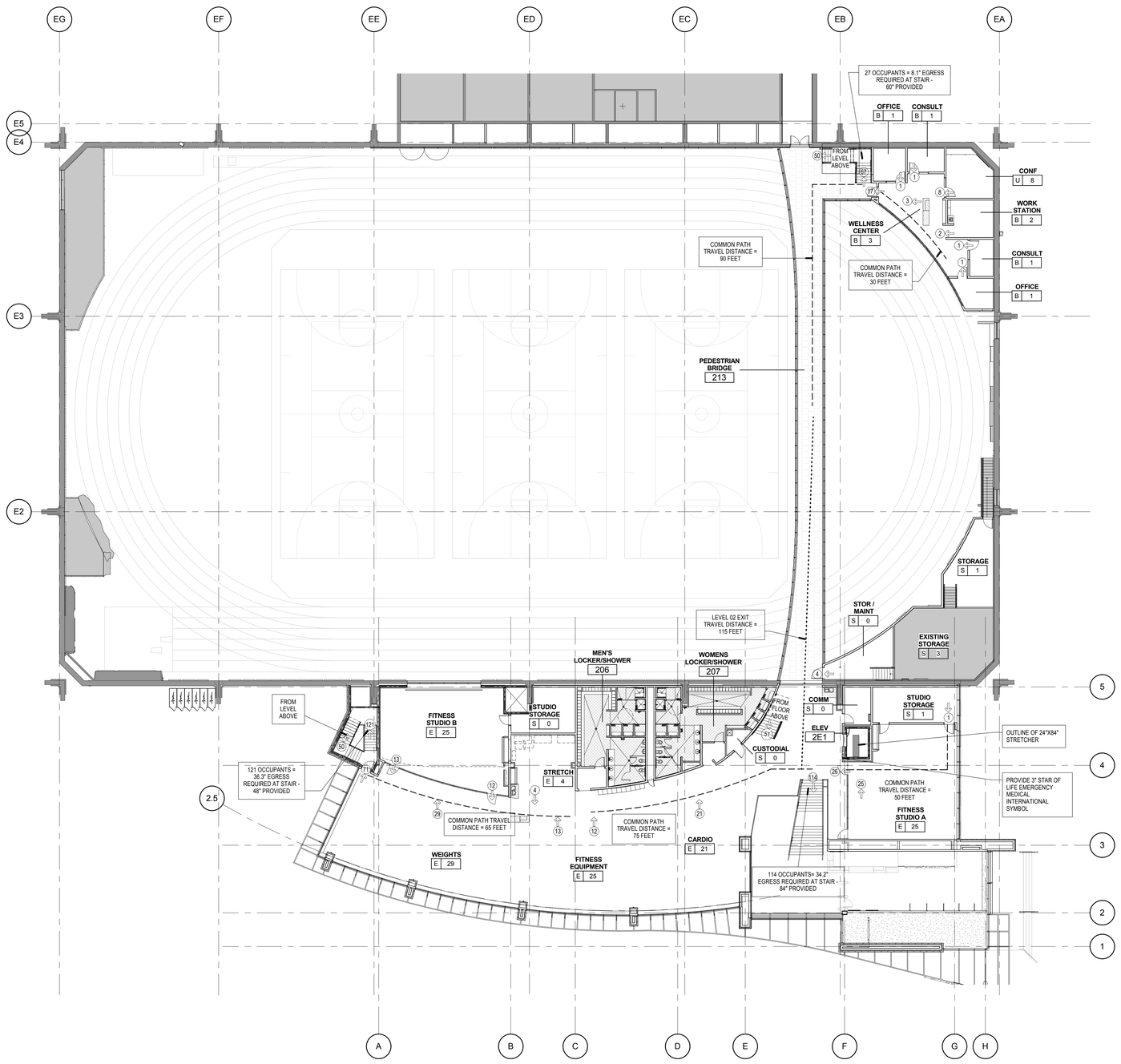
| Rev # | Date | Description |
|---|---|---|

Job # 12475
CAD File
Drawn Author Checked Checker
Date 10.03.2012
Owner # DFCM #12031810

LEVEL 01 EGRESS PLAN

G101

10/3/2012 1:14:03 PM




NORTH

A2 LEVEL 02 - EGRESS PLAN

SCALE: 1/16" = 1'-0"

0' 8' 16' 32' 48'

## OCCUPANCY LOAD

B 3 — OCCUPANT NUMBER / OCCUPANCY TYPE

| | | |
|---|---|---|
| AU | ASSEMBLY UNCONCENTRATED WITHOUT FIXED SEATS (TABLES AND CHAIRS ) | 7 SF PER OCCUPANT NET |
| B | BUSINESS AREAS | 100 SF PER OCCUPANT GROSS |
| E | EXERCISE ROOMS | 50 SF PER OCCUPANT GROSS |
| ED | EDUCATIONAL | 50 SF PER OCCUPANT NET |
| L | LOCKER ROOMS | 50 S.F. PER OCCUPANT GROSS |
| S | ACCESSORY STORAGE AREAS, MECHANICAL EQUIPMENT ROOM | 300 S.F. PER OCCUPANT NET |

OCCUPANCY TYPES BASED ON IBC TABLE 1004.1.1

## TOTAL OCCUPANCY PER FLOOR

| | NEW | EXIST. |
|---|---|---|
| TOTAL OCCUPANTS LEVEL 1 - | 66 | 876 |
| TOTAL OCCUPANTS LEVEL 2 - | 130 | 0 |
| TOTAL OCCUPANTS LEVEL 3 - | 151 | 0 |
| TOTAL OCCUPANTS - | 347 | 876 |

## LEGEND

EXIT PATH

COMMON PATH

DIRECTION OF TRAVEL

OCCUPANT LOAD NUMBER (XXX)

VCBO
ARCHITECTURE
VALENTINER
CRANE
BRUNJES
ONYON

REGISTERED ARCHITECT
No. 13392
BRENT R. TIPPETS
10-2-12
STATE OF UTAH

VCBO ARCHITECTURE
524 SOUTH 600 EAST
SALT LAKE CITY, UT 84102
Phone: (801) 575-8800
Fax: (801) 531-9850
WWW: www.vcbo.com

DFCM CODE COMPLIANCE STAMP

# Student Activity Center
## Stromberg Addition - BID SET
Weber State University
3750 Harrison Blvd. Ogden, UT 84408

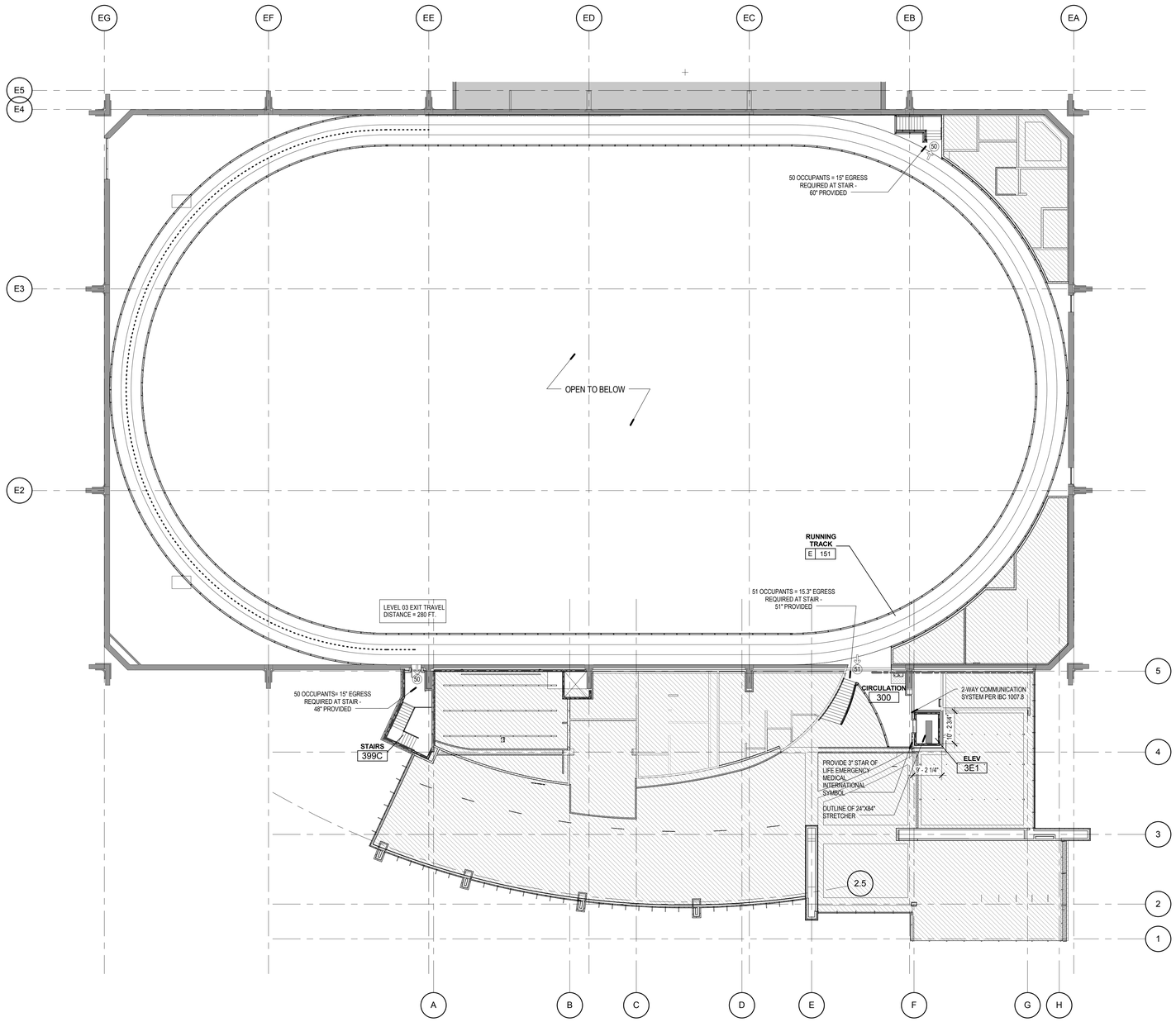
| Rev # | Date | Description |
|---|---|---|

Job # 12475
CAD File
Drawn Author Checked Checker
Date 10.03.2012
Owner # DFCM #12031810

LEVEL 02 EGRESS PLAN

G102

10/3/2012 1:14:13 PM




NORTH

A2 LEVEL 03 - EGRESS PLAN

SCALE: 1/16" = 1'-0"

0' 8' 16' 32' 48'

## OCCUPANCY LOAD

B 3 — OCCUPANT NUMBER
OCCUPANCY TYPE

| | | |
|---|---|---|
| AU | ASSEMBLY UNCONCENTRATED WITHOUT FIXED SEATS (TABLES AND CHAIRS ) | 7 SF PER OCCUPANT NET |
| B | BUSINESS AREAS | 100 SF PER OCCUPANT GROSS |
| E | EXERCISE ROOMS | 50 SF PER OCCUPANT GROSS |
| ED | EDUCATIONAL | 50 SF PER OCCUPANT NET |
| L | LOCKER ROOMS | 50 S.F. PER OCCUPANT GROSS |
| S | ACCESSORY STORAGE AREAS, MECHANICAL, EQUIPMENT ROOM | 300 S.F. PER OCCUPANT NET |

OCCUPANCY TYPES BASED ON IBC TABLE 1004.1.1

## TOTAL OCCUPANCY PER FLOOR

| | NEW | EXIST. |
|---|---|---|
| TOTAL OCCUPANTS LEVEL 1 - | 66 | 876 |
| TOTAL OCCUPANTS LEVEL 2 - | 130 | 0 |
| TOTAL OCCUPANTS LEVEL 3 - | 151 | 0 |
| TOTAL OCCUPANTS - | 347 | 876 |

## LEGEND

EXIT PATH
COMMON PATH
DIRECTION OF TRAVEL
OCCUPANT LOAD NUMBER (XXX)

VCBO
ARCHITECTURE
VALENTINER
CRANE
BRUNJES
ONYON

VCBO ARCHITECTURE
524 SOUTH 600 EAST
SALT LAKE CITY, UT 84102
Phone: (801) 575-8800
Fax: (801) 531-9850
WWW: www.vcbo.com

DFCM CODE COMPLIANCE STAMP

# Student Activity Center
## Stromberg Addition - BID SET
Weber State University
3750 Harrison Blvd. Ogden, UT 84408

| Rev # | Date | Description |
|---|---|---|

Job # 12475
CAD File
Drawn Author Checked Checker
Date 10.03.2012
Owner # DFCM #12031810

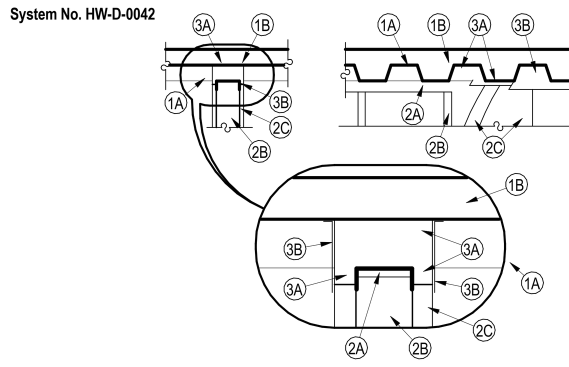
LEVEL 03 EGRESS PLAN

G103

10/3/2012 1:14:35 PM

## UL DESIGN No. HW-D-0042 - 1 OR 2 HR TOP OF WALL

System No. HW-D-0042




Assembly Ratings - 1 and 2 Hr (See Items 2 & 3A)
Joint Width - 1 In. Max
Class II Movement Capabilities - 50 Percent Compression Or Extension

1. Floor Assembly - The fire-rated fluted steel deck/concrete floor assembly shall be constructed of the materials and in the manner described in the individual D700 or D900 Floor-Ceiling Design in the UL Fire Resistance Directory and shall include the following construction features:

A. Steel Floor And Form Units* - Max 3 in. (76 mm) deep galv steel fluted units.

B. Concrete - Min 2-1/2 in. (64 mm) thick reinforced concrete, as measured from the top plane of the floor units.

C. Spray-Applied Fire Resistive Materials* - (Optional, Not Shown)-Prior to the installation of the steel ceiling runners, Forming Material and Fill, Void or Cavity Material (Items 2A, 3A, 3B, respectively ) the steel floor units may be sprayed with a min 5/16 in. (8 mm) to max 1-3/4 in. (45 mm) thickness of fire resistive material.

W R GRACE & CO - CONN - Type MK-6-HY

1A. Roof Assembly - (Not Shown) - As an alternate to the floor assembly, a fire rated fluted steel deck roof assembly may be used. The roof assembly shall be constructed of the materials and in the manner described in the individual P900 Series Roof-Ceiling Design in the UL Fire Resistance Directory. The hourly rating of the roof assembly shall be equal to or greater than the hourly rating of the wall assembly. The roof assembly shall include the following construction features:

A. Steel Roof Deck - Max 3 in. (76 mm) deep galv steel fluted roof deck.

B. Roof Insulation - Min 2-1/4 in. (57 mm) thick poured insulating concrete, as measured from the top plane of the floor units.

1B. Roof Assembly - As an alternate to Items 1 and 1A, a fire rated protected fluted steel deck roof assembly may be used. The roof assembly shall be constructed of the materials and in the manner described in the individual P700 Series Roof-Ceiling Design in the UL Fire Resistance Directory. The hourly rating of the roof assembly shall be equal to or greater than the hourly rating of the wall assembly. The roof assembly shall include the following construction features:

A. Steel Roof Deck - Max 3 in. (76 mm) deep galv steel fluted roof deck.

B. Spray-Applied Fire Resistive Materials* - (Not Shown)-Prior to the installation of the steel ceiling runners, Forming Material and Fill, Void or Cavity Material (Items 2A, 3A, 3B), the roof assembly shall be sprayed with the type and thickness of fire resistive material indicated in the individual P700 Series design.

2. Wall Assembly - The 1 or 2 hr fire rated gypsum board/steel stud wall assembly shall be constructed of the materials and in the manner described in the individual U400 or V400 Series Wall and Partition Design in the UL Fire Resistance Directory and shall include the following construction features:

A. Steel Floor And Ceiling Runners - Floor and ceiling runners of wall assembly shall consist of galv steel channels sized to accommodate steel studs (Item 2B). Ceiling runner to be provided with 2 in. (51 mm) flanges. Ceiling runner installed perpendicular to direction of fluted steel deck and secured to valleys with steel masonry anchors or welds spaced max 12 in. (305 mm) OC. When optional spray-applied fire resistive material is used on steel deck and when deflection channel is not used, ceiling runner secured through spray-applied material to each valleys of steel deck with min 3/16 in. (5 mm) diam steel masonry anchors spaced max 12 in. (305 mm) OC.

A1. Light Gauge Framing*-Slotted Ceiling Runner - As an alternate to the ceiling runner in Item 2A, slotted ceiling runner to consist of galv steel channel with slotted flanges sized to accommodate steel studs (Item 2B). Slotted ceiling runner installed perpendicular to direction of fluted steel deck and secured to valleys with steel masonry anchors spaced max 24 in. (610 mm) OC. When optional spray-applied fire resistive material is used on steel deck, slotted ceiling runner secured through spray-applied material to each valley of steel deck with min 3/16 in. (5 mm) diam steel masonry anchors spaced max 12 in. (305 mm) OC.

BRADY CONSTRUCTION INNOVATIONS INC,

DBA SLIPTRACK SYSTEMS - SLP-TRK

CALIFORNIA EXPANDED METAL PRODUCTS CO - CST

CLARKWESTERN BUILDING SYSTEMS INC - Type SLT, SLT-H

METAL-LITE INC - The System

SCAFCO STEEL STUD MANUFACTURING CO

A2. Light Gauge Framing*-Vertical Deflection Ceiling Runner - When the nom joint width is less than or equal to 3/4 in. (19 mm), vertical deflection ceiling runner may be used as an alternate to the ceiling runners in Items 2A and 2A1. Vertical deflection ceiling runner to consist of galv steel channel with slotted vertical deflection clips mechanically fastened within runner. Slotted clips provided with step bushings for permanent fastening of steel studs. Flanges sized to accommodate steel studs (Item 2B). Vertical deflection ceiling runner installed perpendicular to direction of fluted steel deck and secured to valleys with steel masonry anchors spaced max 24 in. (610 mm) OC. When optional spray-applied fire resistive material is used on steel deck, vertical deflection ceiling runner secured through spray-applied material to each valley of steel deck with min 3/16 in. (5 mm) diam steel masonry anchors spaced max 12 in. (305 mm) OC.

THE STEEL NETWORK INC - VertiTrack VTD250, VTD362, VTD400, VTD600 and VTD800

A3. Light Gauge Framing* - Clipped Ceiling Runner - As an alternate to the ceiling runner in Items 2A, 2A1 and 2A2, clipped runner to consist of galv steel channel with clips preformed in track flanges which positively engage the inside flange of the steel studs (Item 2B). Track sized to accommodate steel studs (Item 2B). Track flanges to be min 2-1/2 in. (64 mm). Clipped ceiling runner installed perpendicular to direction of fluted steel deck and secured to valleys with steel masonry anchors spaced max 24 in. (610 mm) OC. When optional spray-applied fire resistive material is used on steel deck, clipped ceiling runner secured through spray-applied material to each valley of steel deck with min 3/16 in. (5 mm) diam steel masonry anchors spaced max 12 in. (305 mm) OC.

TOTAL STEEL SOLUTIONS L L C - Snap Trak

A4. Light Gauge Framing*- Notched Ceiling Runner - As an alternate to the ceiling runners in Items 2A through 2A3, notched ceiling runners to consist of C-shaped galv steel channel with notched return flanges sized to accommodate steel studs (Item 2B). Notched ceiling runner installed perpendicular to direction of fluted steel deck and secured to valleys with steel masonry anchors spaced max 24 in. (610 mm) OC. When optional spray-applied fire resistive material is used on the steel deck, notched ceiling runner secured through spray-applied material to each valley of steel deck with min 3/16 in. (5 mm) diam steel masonry anchors spaced max 12 in. (305 mm) OC.

DENMAR STEEL INC - Type SCR

B. Studs - Steel studs to be min 2-1/2 in. (64 mm) wide. Studs cut 1/2 to 3/4 in. (13 to 19 mm) less in length than assembly height with bottom nesting in and resting on floor runner and with top nesting in ceiling runner without attachment. When slotted ceiling runner (Item 2A1) is used, steel studs secured to slotted ceiling runner with No. 8 by 1/2 in. (13 mm) long wafer head steel screws at midheight of slot on each side of wall. When vertical deflection ceiling runner (Item 2A2) is used, steel studs secured to slotted vertical deflection clips, through the bushings, with steel screws at midheight of each slot. Stud spacing not to exceed 24 in. (610 mm) OC.

C. Gypsum Board* - Gypsum board installed to a min total thickness of 5/8 in. and 1-1/4 in. (16 and 32 mm) on each side of wall for 1 and 2 hr rated assemblies, respectively. Wall to be constructed as specified in the individual Wall and Partition Design in the UL Fire Resistance Directory, except that a max 1 in. (25 mm) gap shall be maintained between the top of the gypsum board and the bottom of the steel deck units and the top row of screws shall be installed into the studs 3-1/2 to 4 in. (89 to 102 mm) below the lower surface of the floor or roof. The hourly rating of the joint system is dependent on the hourly rating of the wall.

3. Joint System - Max separation between bottom of floor or roof and top of wall at time of installation of joint system is 1 in. (13 mm). The joint system is designed to accommodate a max 50 percent compression or extension from its installed width. The joint system consists of forming material and a fill material, as follows:

A. Forming Material* - Nom 4 pcf (64 kg/m3) density mineral wool batt insulation cut approx 25 percent wider than the flutes and with a length approx equal to the overall thickness of the wall. Multiple pieces stacked on top of each other, as needed, and then compressed 50 percent in thickness and inserted into the flutes of the steel deck above the top of the ceiling runner. The mineral wool batt insulation is to project beyond each side of the ceiling runner, flush with wall surfaces. Additional 5/8 in. and 1-1/4 in. (16 and 32 mm) wide strips for 1 and 2 hr rated assemblies, respectively, of nom 4 pcf (64 kg/m3) mineral wool batt insulation are to be cut to fill the gap between the top of the gypsum board and bottom of the steel deck. The strips of mineral wool are compressed 50 percent and tightly packed, cut edge first, into the gap between the top of the gypsum board and bottom of the steel deck on both sides of the wall.

ROCK WOOL MANUFACTURING CO - Delta- Board

THERMAFIBER INC - Type SAF

3. Joint System - CONTINUED FROM LEFT

A1. Forming Material*-Plugs - (Optional, Not Shown) Preformed mineral wool plugs, formed to the shape of the fluted floor units, friction fit to completely fill the flutes above the ceiling channel. The plugs shall project beyond each side of the ceiling runner, flush with wall surfaces. Additional forming material, described in Item 3A, to be used in conjunction with the plugs to fill the gap between the top of gypsum board and bottom of steel floor units.

HILTI CONSTRUCTION CHEMICALS, DIV OF

HILTI INC - CP777 Speed Plugs

A2. Forming Material* - Strips - (Optional) - Nom 5/8 in. and 1-1/4 in. (16 and 32 mm) wide by 2 in. (51 mm) high precut mineral wool strips for 1 and 2 hr rated assemblies respectively. The strips are compressed 50 percent and firmly packed, cut edge first, into the gap between the top of the gypsum board and bottom of the steel floor units on both sides of the wall.

HILTI CONSTRUCTION CHEMICALS, DIV OF

HILTI INC - CP 767 Speed Strips

B. Fill, Void or Cavity Material* - Min 1/6 in. (1.6 mm) dry thickness (1/8 in. or 3.2 mm wet thickness) of fill material sprayed or troweled on each side of the wall to completely cover mineral wool forming material and to overlap a min of 1/2 in. (13 mm) onto gypsum board and steel deck on both sides of wall. When Spray-Applied Fire Resistive Material* is applied to the Steel Floor and Form Units*, the fill material is to overlap the gypsum board a min of 1/2 in. (13 mm) and the Spray-Applied Fire Resistive Material a min of 2 in. (51 mm) on both sides of wall. When spray-applied fire resistive materials are used, the CP 672 firestop spray shall overlap the wall a min 1/2 in. (13 mm) and overlap the spray-applied fire resistive material a min of 2 in. (51 mm) on both sides of the wall.

HILTI CONSTRUCTION CHEMICALS, DIV OF

HILTI INC - CP 672 Firestop Spray

*Bearing the UL Classification Mark

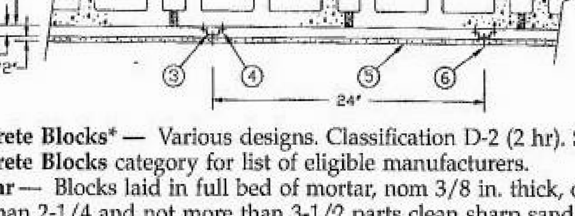
Last Updated on 2009-05-02

## UL DESIGN No. U914 - 3 HR NONBEARING & BEARING WALL

FIRE RESISTANCE RATINGS - ANSI/UL 263 (BXUV)

### Design No. U914

Bearing Wall Rating — 3 HR.
Nonbearing Wall Rating — 3 HR.
Load Restricted for Canadian Applications — See Guide BXUV7




1. **Concrete Blocks*** — Various designs. Classification D-2 (2 hr). See **Concrete Blocks** category for list of eligible manufacturers.
2. **Mortar** — Blocks laid in full bed of mortar, nom 3/8 in. thick, of not less than 2-1/4 and not more than 3-1/2 parts clean sharp sand to 1 part Portland cement (proportioned by volume) and not more than 50 percent hydrated lime (by cement volume). Vertical joints staggered.
3. **Furring Channels** — Min 0.019 in. thick (25 gauge) galv steel, 1-3/8 in. wide on top and 2-3/4 in. wide at bottom by 7/8 in. deep. Spaced 24 in. OC perpendicular to floor with a channel parallel to and approximately 3 in. above floor and 3 in. below ceiling. Clearance between vertical and horizontal channels 1/2 in.
4. **Channel Fasteners** — 1-1/4 in. long masonry screws with 3/16 in. body and 5/16 in. diameter head. Fasteners spaced 24 in. O.C. with the fasteners staggered on each long leg of the furring channel.

4A. **Steel Framing Members*** — (Not Shown) — Alternate method used to attach furring channels (Item 3) to concrete blocks (Item 1). Clips spaced 48 in. OC., and secured to blocks with 1/4 in. dia. By 3 in. long concrete expansion anchor (Item 4B) through the center grommet. Ends of adjoining channels are overlapped 6 in. and tied together with double strand of No. 18 SWG galv steel wire near each end of overlap. As an alternate, ends of adjoining channels may be overlapped 6 in. and secured together with two self-tapping #6 framing screws, min. 7/16 in. long at the midpoint of the overlap, with one screw on each flange of the channel. Furring channels are friction fitted into clips.
PAC INTERNATIONAL INC —Type RSIC-1.

4B. **Concrete Expansion Anchor** — (Not Shown) — 1/4 in. dia. by 3 in. long carbon steel, pre-assembled, nail drive expansion anchor with mushroom head driven into the web of the concrete block. Min. embedment in concrete block of 1-3/8 in. and evaluated in accordance with ASTM E 488 to have ultimate load capacities of 980 lbs (tension) and 1400 lbs (shear) when used in 2000 psi concrete.

5. **Gypsum Board*** — 1/2 in. thick, 4 ft wide, secured to furring channels with wallboard fasteners (Item 6). Gypsum plaster not more than 1/16 in. thick may be applied to wallboard in addition to joint treatment.
AMERICAN GYPSUM CO —Types AG-C.
CERTAINTEED GYPSUM INC —ProRoc Type C.
CERTAINTEED GYPSUM CANADA INC —ProRoc Type C.
CANADIAN GYPSUM COMPANY —Types C, IP-X2, IPC-AR.
GEORGIA-PACIFIC GYPSUM L L C —Types 5, DAPC.
LAFARGE NORTH AMERICA INC —Types LGFC-C, LGFC-C/A.
NATIONAL GYPSUM CO —Types FSK-C, FSW-C, FSMR-C.
PABCO BUILDING PRODUCTS L L C, DBA
PABCO GYPSUM —Type PG-C.
PANEL REY S A — Type PRC
TEMPLE-INLAND —Type TG-C.
UNITED STATES GYPSUM CO —Types C, IP-X2, IPC-AR.
USG MEXICO S A DE C V —Types C, IP-X2, IPC-AR.

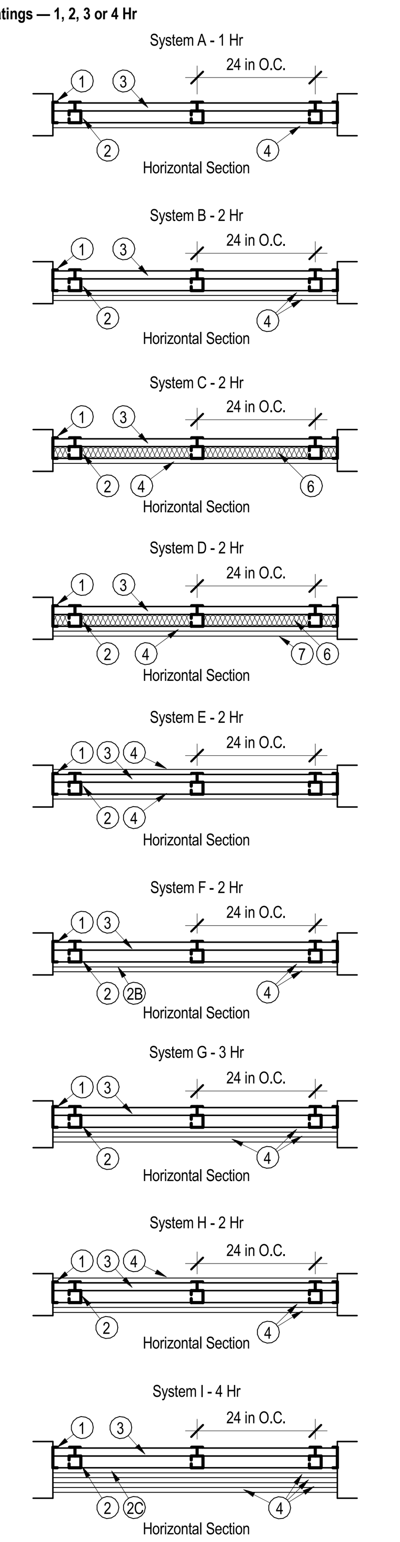
5A. **Gypsum Board*** — (As an alternate to Item 5) — 5/8 in. thick. Installed as described in Item 5.
NATIONAL GYPSUM CO — Type FSMR-C.

6. **Wallboard Fasteners** — 1 in. long, self-drilling, self-tapping steel screws with bugle heads. Fasteners attached to each furring channel and spaced 8 in. OC at butt joints and 12 in. OC in the field of the board parallel with furring channels. Clearance between fasteners and edges of wallboard 3/4 in.
7. **Joint System — (Not shown)** — Paper tape embedded in cementitious compound over joints. Paper tape and exposed screw heads covered with two layers of compound. Edges of compound feathered out.

*Bearing the UL Classification Mark

## UL DESIGN No. U415 - 1, 2, 3 OR 4 HR SHAFT WALL

Design No. U415
Nonbearing Wall Ratings — 1, 2, 3 or 4 Hr




1. Floor, Side and Ceiling Runners -- "J" - shaped runner, min 2-1/2 in. deep (min 4 in. deep when System C is used), with unequal legs of 1 in. and 2 in., fabricated from min 24 MSG (min 20 MSG when Item 4A or 7 are used) galv steel. Runners positioned with short leg toward finished side of wall. Runners attached to structural supports with steel fasteners located not greater than 2 in. from ends and not greater than 24 in. OC. "E" - shaped studs (Item 2A) may be used as side runners in place of "J" - shaped runners.

2. Steel Studs -- "C-H" - shaped studs, min 2-1/2 in. deep (min 4 in. deep when System C is used), fabricated from min 25 MSG (min 20 MSG when Items 2D, 5C, or 7 is used) galv steel. Cut to lengths 3/8 to 1/2 in. less than floor-to-ceiling height and spaced 24 in. or 600 mm OC.

2A. Steel Studs -- (Not Shown) -- "E" - shaped studs installed back to back in place of "C-H" - shaped studs (Item 2) "E" - shaped studs secured together with steel screws spaced a maximum 12 in. OC. Fabricated from min 25 MSG (min 20 MSG when Item 2D or Item 7 is used) galv steel, min 2-1/2 in. deep (min 4 in. deep when System C is used), with one leg 1 in. long and two legs 3/4 in. long. Shorter legs 1 in. apart to engage gypsum liner panels. Cut to lengths 3/8 to 1/2 in. less than floor to ceiling heights.

2B. Furring Channels -- (Optional, not shown) -- For use with single or double layer systems. Resilient furring channels fabricated from min 25MSG corrosion protected steel, installed horizontally, and spaced vertically a max 24 in. OC. Flange portion of channel attached to each intersecting "C-H" or "E" stud on side of stud opposite the 1 in. liner panels with 1/2 in. long Type S or S-12 pan-head steel screws. When furring channels are used, wallboard to be installed vertically only. Not to be used with Type FRX or FRX-G gypsum wallboard (Item 4A) or cementitious backer units (Item 7).

2C. Furring Channels -- For use with System I - "Hat" - shaped, 25 MSG galv steel furring channels attached directly over the inner layers of wallboard to each stud with 2 in. long Type S pan head steel screws. Screws alternate from top flange to bottom flange at each stud intersection. Furring channels spaced vertically max 24 in. OC.

2D. Steel Framing Members* -- (Optional, not shown) -- For use with single or double layer systems. Furring channels and Steel Framing Members as described below. Not to be used with Type FRX or FRX-G gypsum wallboard (Item 4A) or cementitious backer units (Item 7):

a. Furring Channels -- Formed of No. 25 MSG galv steel. 2-3/8 in. wide by 7/8 in. deep, spaced max. 24 in. OC perpendicular to studs. Channels secured to studs as described in Item b. Gypsum board installed vertically only and attached to furring channels as described in Item 3.

b. Steel Framing Members* -- Used to attach furring channels (Item 2Da) to studs (Item 2 or 2A). Clips spaced max. 24 in. OC., and secured to studs with No. 8 x 1-1/2 in. minimum self-drilling, S-12 steel screw through the center grommet. Furring channels are friction fitted into clips.

PAC INTERNATIONAL INC -- Type RSIC-1.

3. Gypsum Board* -- Gypsum liner panels, nom 1 in. thick, 24 in. or 600 mm (for metric spacing) wide. Panels cut 1 in. less in length than floor to ceiling height. Vertical edges inserted in "H" portion of "C-H" studs or the gap between the two 3/4 in. legs of the "E" studs. Free edge of end panels attached to long leg of vertical "J" - runners with 1-5/8 in. long Type S steel screws spaced not greater than 12 in. OC. When wall height exceeds liner panel length, liner panel may be butted to extend to the full height of the wall. Horizontal joints need not be backed by steel framing. In System I, butt joints in liner panels are staggered min 36 in. Butt joints backed with 6 in. by 22 in. strips of 3/4 in. thick gypsum wallboard (Item 4). Wallboard strips centered over butt joints and secured to liner panels with six 1-1/2 in. long Type G steel screws, three screws along the 22 in. dimension at the top and bottom of the strips.

CANADIAN GYPSUM COMPANY -- Type SLX

UNITED STATES GYPSUM CO -- Type SLX

USG MEXICO S A DE C V -- Type SLX

4. Gypsum Board* --

System A - 1 Hr

Gypsum panels, with beveled, square or tapered edges, nom 5/8 in. thick, 48 in. or 1200 mm wide, applied vertically or horizontally, attached to studs with 1 in. long Type S steel screws spaced 12 in. when installed vertically or 8 in OC when installed horizontally. Horizontal joints need not be backed by steel framing.

CANADIAN GYPSUM COMPANY -- Types AR, C, IP-AR, IP-X1, IP-X2, IPC-AR, SCX, SHX, WRC, WRX

UNITED STATES GYPSUM CO -- Types AR, C, FRX-G, IP-AR, IP-X1, IP-X2, IPC-AR, SCX, SHX, WRC, WRX, USGX.

USG MEXICO S A DE C V -- Types AR, C, IP-AR, IP-X1, IP-X2, IPC-AR, SCX, SHX, WRC, WRX

System B - 2 Hr

Gypsum panels, with beveled, square or tapered edges, nom 1/2 in. or 5/8 in. thick, 48 in. or 1200 mm wide, applied vertically or horizontally in two layers. Inner or base layer attached to studs with 1 in. long Type S steel screws spaced 24 in. OC when installed vertically or 16 in. OC when installed horizontally. Outer or face layer attached to studs with 1-5/8 in. long Type S steel screws spaced 12 in. OC when installed vertically and staggered 12 in. from base layer screws or 8 in. OC when installed horizontally and staggered 8 in. from base layer screws. Horizontal joints between inner and outer layers staggered a min of 12 in. Horizontal joints need not be backed by steel framing. Vertical joints centered over studs and staggered 24 in.

CANADIAN GYPSUM COMPANY -- 1/2 in. Type C, IP-X2, IPC-AR or WRC; 5/8 in. Types AR, C, IP-AR, IP-X1, IP-X2, IPC-AR, SCX, SHX, WRC, WRX

UNITED STATES GYPSUM CO -- 1/2 in. Types C, IP-X2, IPC-AR, or WRC; 5/8 in. Types AR, C, FRX-G, IP-AR, IP-X1, IP-X2, IPC-AR, SCX, SHX, WRC, WRX

USG MEXICO S A DE C V -- 1/2 in. Types C, IP-X2, IPC-AR or WRC; 5/8 in. Types AR, C, IP-AR, IP-X1, IP-X2, IPC-AR, SCX, SHX, WRC, WRX

System C - 2 Hr

Gypsum panels, with beveled, square or tapered edges, nom 3/4 in. thick, 48 in. or 1200 mm wide, applied vertically or horizontally, secured with 1-1/4 in. long Type S steel screws spaced 8 in. OC along vertical edges and 12 in. OC in the field when installed vertically or 8 in. OC along the vertical edges and in the field when installed horizontally. Horizontal joints need not be backed by steel framing. Screws along side joints offset 4 in. Requires min 4 in. deep framing per Items 1, 2 and 3. Requires min 3 in. thick mineral wool batts per Item 6.

CANADIAN GYPSUM COMPANY -- Types IP-X3, or ULTRACODE

UNITED STATES GYPSUM CO -- Types IP-X3, or ULTRACODE

USG MEXICO S A DE C V -- Types IP-X3, or ULTRACODE

CONTINUED TO RIGHT

## UL DESIGN No. U415 - CONTINUED FROM LEFT

Design No. U415 CONTINUED FROM LEFT

System D - 2 Hr

Gypsum panels, with beveled, square or tapered edges, nom 5/8 in. thick, 48 in. or 1200 mm wide, applied vertically or horizontally, attached directly to studs with 1 in. long Type S steel screws spaced 24 in. when installed vertically or 16 in. OC when installed horizontally. . Horizontal joints need not be backed by steel framing. Requires face layer of 1/2 or 5/8 in. thick cementitious backer units per Item 7 and min 1-1/2 in. thick mineral wool batts per Item 6.

CANADIAN GYPSUM COMPANY -- Types AR, C, IP-AR, IP-X1, IP-X2, IPC-AR, SCX, SHX, WRC, WRX

UNITED STATES GYPSUM CO -- Types AR, C, FRX-G, IP-AR, IP-X1, IP-X2, IPC-AR, SCX, SHX, WRC, WRX, USGX.

USG MEXICO S A DE C V -- Types AR, C, IP-AR, IP-X1, IP-X2, IPC-AR, SCX, SHX, WRC, WRX

System E - 2 Hr

Gypsum panels, with beveled, square or tapered edges, nom 1/2 in. or 5/8 in. thick, 48 in. or 1200 mm wide, applied vertically or horizontally, attached to studs with 1 in. long Type S steel screws spaced 12 in. OC when installed vertically or 8 in. when installed horizontally. Horizontal joints need not be backed by steel framing.

CANADIAN GYPSUM COMPANY -- 1/2 in. Types C, IP-X2, IPC-AR; 5/8 in. Types AR, C, IP-AR, IP-X1, IP-X2, IPC-AR, SCX, SHX, WRC, WRX

UNITED STATES GYPSUM CO -- 1/2 in. Types C, IP-X2, IPC-AR; 5/8 in. Types AR, C, FRX-G, IP-AR, IP-X1, IP-X2, IPC-AR, SCX, SHX, WRC, WRX

USG MEXICO S A DE C V -- 1/2 in. Types C, IP-X2, IPC-AR; 5/8 in. Types AR, C, IP-AR, IP-X1, IP-X2, IPC-AR, SCX, SHX, WRC, WRX

System F - 2 Hr

Gypsum panels, with beveled, square or tapered edges, nom 1/2 in. or 5/8 in. thick, 48 in. or 1200 mm wide, applied vertically in two layers. Inner or base layer attached to resilient furring channels (Item 2B) with 1 in. long Type S steel screws spaced 24 in. Outer or face layer attached to resilient furring channels (Item 2B) with 1-5/8 in. long Type S steel screws spaced 12 in. OC and staggered 12 in. from base layer screws. Joints between inner and outer layers staggered 24 in.

CANADIAN GYPSUM COMPANY -- 1/2 in. Type C, IP-X2, IPC-AR or WRC; 5/8 in. Types AR, C, FRX-G, IP-AR, IP-X1, IP-X2, IPC-AR, SCX, SHX, WRC, WRX

UNITED STATES GYPSUM CO -- 1/2 in. Type C, IP-X2, IPC-AR or WRC; 5/8 in. Types AR, C, FRX-G, IP-AR, IP-X1, IP-X2, IPC-AR, SCX, SHX, WRC, WRX

USG MEXICO S A DE C V -- 1/2 in. Type C, IP-X2, IPC-AR or WRC; 5/8 in. Types AR, C, IP-AR, IP-X1, IP-X2, IPC-AR, SCX, SHX, WRC, WRX

System G - 3 Hr

Gypsum panels, with beveled, square or tapered edges, nom 5/8 in. thick, 48 in. or 1200 mm wide, applied vertically or horizontally in three layers. Inner or base layer attached to studs with 1 in. long Type S steel screws spaced 24 in. OC when installed vertically or 16 in OC when installed horizontally. Middle layer attached to studs with 1-5/8 in. long Type S steel screws spaced 24 in. when installed vertically or 16 in. OC when installed horizontally. Outer or face layer attached to studs with 2-1/4 in. long Type S steel screws spaced 16 in. when installed vertically or 12 in. OC when installed horizontally. Screws offset 6 in. from layer below. Horizontal joints on adjacent layers staggered a min of 12 in. . Horizontal joints need not be backed by steel framing. Vertical joints centered over studs and staggered 24 in. on adjacent layers.

CANADIAN GYPSUM COMPANY -- Types C, IP-X2, IPC-AR, WRC

UNITED STATES GYPSUM CO -- Types C, IP-X2, IPC-AR, WRC

USG MEXICO S A DE C V -- Types C, IP-X2, IPC-AR, WRC

System H - 3 Hr

Gypsum panels, with beveled, square or tapered edges, nom 5/8 in. thick, 48 in. or 1200 mm wide, applied vertically or horizontally, two layers over the flange of the "C" section of the studs, one layer over the flange of the "H" section of the studs. Inner or base layer attached to studs with 1 in. long Type S steel screws spaced 24 in. OC when installed vertically or 16 in. OC when installed horizontally. Face layer attached to studs with 1-5/8 in. long Type S steel screws spaced 16 in. when installed vertically or 12 in. OC when installed horizontally. Screws offset 6 in. from layer below. Horizontal joints on adjacent layers staggered a min of 12 in. Horizontal joints need not be backed by steel framing. Vertical joints centered over studs and staggered 24 in. on adjacent layers.

CANADIAN GYPSUM COMPANY -- Types C, IP-X2, IPC-AR, WRC

UNITED STATES GYPSUM CO -- Types C, IP-X2, IPC-AR, WRC

USG MEXICO S A DE C V -- Types C, IP-X2, IPC-AR, WRC

System I - 4 Hr

Gypsum panels, with beveled, square or tapered edges, nom 3/4 in. thick, 4 ft wide (or 1200 mm for metric spacing) wallboard with square or tapered edges. Total of four layers to be used. First and second (inner) layers applied vertically or horizontally over the steel studs. Horizontal joints need not be backed by steel framing. When applied vertically, joints centered over studs and staggered min 24 in., otherwise all joints staggered min 12 in. First layer secured to studs with 1-1/4 in. long Type S self-drilling, self-tapping bugle-head steel screws spaced 24 in. OC. Second layer secured to studs with 2-1/4 in. long Type S self-drilling, self-tapping bugle-head steel screws spaced 12 in. OC. Third layer applied vertically over the furring channels (Item 2C) with a 1-1/4 in. long Type S self-drilling, self-tapping bugle-head steel screws spaced 12 in. OC. Fourth layer applied vertically or horizontally with 2-1/4 in. long Type S self-drilling, self-tapping bugle-head steel screws spaced 12 in. OC. When applied vertically, joints to be staggered min 24 in. from third layer, otherwise all joints staggered min 12 in.

CANADIAN GYPSUM COMPANY -- Types IP-X3, or ULTRACODE

UNITED STATES GYPSUM CO -- Types IP-X3, or ULTRACODE

USG MEXICO S A DE C V -- Types IP-X3, or ULTRACODE

4A. Gypsum Board* -- (As an alternate to Item 4 Systems A, B, C, D, E, F, G, H, and I when used as the base layer, For direct attachment only) - Nom 5/8 in. thick lead backed gypsum panels with beveled, square or tapered edges, applied vertically. Vertical joints centered over studs and staggered min 1 stud cavity on opposite sides of studs. Wallboard secured to studs with 1-1/4 in. long Type S-12 steel screws spaced 8 in. OC at perimeter and 12 in. OC in the field.

RAY-BAR ENGINEERING CORP -- Type RB-LBG

5. Joint Tape and Compound -- (Not Shown)

Systems A, B, C, E, F, G, H, I

Joints on outer layers of gypsum boards (Item 4 and 4A) covered with paper tape and joint compound. Paper tape and joint compound may be omitted when gypsum boards are supplied with square edges. Exposed screw heads covered with joint compound.

6. Batts and Blankets* --

Systems A, B, E, F, G, H, I

(Optional) -- Mineral wool or glass fiber batts partially or completely filling stud cavity. Any mineral wool or glass fiber batt mineral bearing the UL Classification Marking as to Fire Resistance.

Systems C & D

Min 3 in. (System C) and min 1-1/2 in. (System D) thick mineral wool batts, friction fitted between the studs and floor and ceiling runners.

THERMAFIBER INC -- Type SAFB

7. Cementitious Backer Units* -- (System D) -- Nom 1/2 or 5/8 in. thick panels, square edge, attached to studs over gypsum wallboard with 1-5/8 in. long, Type S-12, corrosion resistant steel screws spaced 8 in. OC and staggered 8 in. from gypsum wall board screws. Joints covered with glass fiber mesh tape. Vertical joints staggered one stud cavity from gypsum wallboard joints. Horizontal joints staggered a min of 12 in. from the gypsum wallboard joints.

UNITED STATES GYPSUM CO -- DUROCK Exterior Cement Board or DUROCK Brand Cement Board.

8. Laminating Adhesive* -- (Optional, Not Shown) -- Used to bond outer layer of Cementitious Backer Units (Item 7) to inner layers of Gypsum Board (Item 4) in System D. ANSI A136.1 Type 1 organic adhesive applied with 1/4 in. square notched trowel. See Adhesives (BYWR) in the Fire Resistance Directory or Adhesives (BJLZ) in the Building Materials Directory for names of Classified companies.

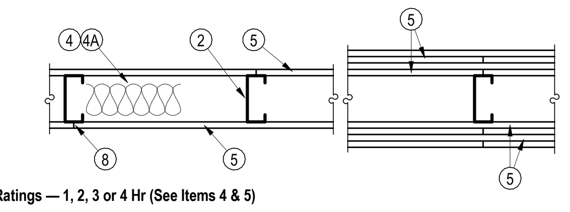
9. Lead Batten Strips -- (Not Shown, For Use With Item 4A) - Lead batten strips, min 1-1/2 in. wide, max 10 ft long with a max thickness of 0.125 in. Strips placed on the interior face of studs and attached from the exterior face of the stud with two 1 in. long Type S-12 pan head steel screws, one at the top of the strip and one at the bottom of the strip. Lead batten strips to have a purity of 99.9% meeting the Federal specification QQ-L-201f, Grade "C". Lead batten strips required behind vertical joints of lead backed gypsum wallboard (Item 4A) and optional at remaining stud locations. Required behind vertical joints.

10. Lead Discs or Tabs -- (Not Shown, For Use With Item 4A) - Used in lieu of or in addition to the lead batten strips (Item 9) or optional at other locations - Max 3/4 in. diam by max 0.125 in. thick lead discs compression fitted or adhered over steel screw heads or max 1/2 in. by 1-1/4 in. by max 0.125 in. thick lead tabs placed on gypsum boards (Item 4A) underneath screw locations prior to the installation of the screws. Lead discs or tabs to have a purity of 99.9% meeting the Federal specification QQ-L-201f, Grade "C".

*Bearing the UL Classification Mark — Last Updated on 2009-02-20

## UL DESIGN No. U419 - 1, 2, 3 OR 4 HR NON-BEARING WALL

Design No. U419




Nonbearing Wall Ratings — 1, 2, 3 or 4 Hr (See Items 4 & 5)

1. Framing Members - Floor and Ceiling Runners — (Not shown) — For use with Item 2 - Channel shaped, fabricated from min 25 MSG corrosion-protected steel, min width to accommodate stud size, with min 1-1/4 in. long legs, attached to floor and ceiling with fasteners 24 in. OC max.

1A. Framing Members - Floor and Ceiling Runners* — Not shown - In lieu of Item 1 — For use with Item 2A, proprietary channel shaped, min. 3-5/8 in. wide, fabricated from min. 0.0150 in. (min bare metal thickness) galvanized steel, attached to floor and ceiling with fasteners 24 in. OC max. Effective thickness is 0.034 in.

CLARKWESTERN BUILDING SYSTEMS INC — UltraSTEEL®

DIETRICH INDUSTRIES INC — UltraSTEEL®.

1B. Framing Members - Floor and Ceiling Runners — (Not shown - In lieu of Item 1) — For use with Item 2A, proprietary channel shaped, min. 2-1/2 in. wide, fabricated from min. 0.0150 in. (min bare metal thickness) galvanized steel, attached to floor and ceiling fasteners 24 in. OC. max. Effective thickness is 0.034 in.

CLARKWESTERN BUILDING SYSTEMS INC — UltraSTEEL®

DIETRICH INDUSTRIES INC — UltraSTEEL®.

1C. Framing Members - Floor and Ceiling Runner* — Not shown - In lieu of Item 1 — For use with Item 2C, proprietary channel shaped runners, 3-5/8 in. wide attached to floor and ceiling with fasteners 24 in. OC max.

CALIFORNIA EXPANDED METAL PRODUCTS CO — ViperTrack™

CRACO MFG INC — SmartTrack™

MARINO\WARE A DIV OF WARE INDUSTRIES

INC — Viper25™ Track

1D. Framing Members - Floor and Ceiling Runner* — Not shown - In lieu of Item 1 — For use with Item 2D, proprietary channel shaped runners, 1-1/4 in. deep by 3-5/8 in. wide fabricated from min 0.0200 in. thick galv steel, attached to floor and ceiling with fasteners spaced 24 in. OC max.

MARINO\WARE A DIV OF WARE INDUSTRIES

INC — Viper20S™ Track, Viper20D™ Track

1E. Framing Members*— Floor and Ceiling Runners — (Not shown) — In lieu of Item 1 - Channel shaped, attached to floor and ceiling with fasteners 24 in. OC. max.

SCAFCO STEEL STUD MANUFACTURING CO — Type SUPREME Framing System

2. Framing Members - Steel Studs — Channel shaped, fabricated from min 25 MSG corrosion-protected steel, min width as indicated under Item 5, min 1-1/4 in. flanges and 1/4 in. return, spaced a max of 24 in. OC. Studs to be cut 3/8 to 3/4 in. less than assembly height.

2A. Framing Members - Steel Studs* — In lieu of Item 2 - Proprietary channel shaped studs, min. width as indicated under Item 5, fabricated from min. 0.0150 in. (min bare metal thickness) galvanized steel, spaced a max of 24 in. OC. Studs to be cut 3/4 in. less than assembly height. Allowable use of studs is shown in the table below. For direct attachment of gypsum board only. Effective thickness is 0.034 in.

CLARKWESTERN BUILDING SYSTEMS INC — UltraSTEEL®

DIETRICH INDUSTRIES INC — UltraSTEEL®.

2B. Framing Members - Steel Studs — (As an alternate to Item 2, For use with Items 5B & 5E) Channel shaped, fabricated from min 20 MSG (0.0327 in. thick) corrosion-protected or galv steel, 3-1/2 in. min width, min 1-1/2 in. flanges and 1/4 in. return, spaced a max of 16 in. OC. Studs friction-fit into floor and ceiling runners. Studs to be cut 5/8 to 3/4 in. less than assembly height.

2C. Framing Members - Steel Studs* — (As an alternate to Item 2, For use with Item 5C) - Proprietary channel shaped studs, 3-5/8 in. wide spaced a max of 24 in. OC. Studs to be cut 3/4 in less than the assembly height and installed with a ½ in. gap between the end of the stud and track at the bottom of the wall. For direct attachment of gypsum board only.

CALIFORNIA EXPANDED METAL PRODUCTS CO — ViperStud ™

CRACO MFG INC — SmartStud™

MARINO\WARE A DIV OF WARE INDUSTRIES

INC — Viper25™

2D. Framing Members - Metal Studs* — Not shown - In lieu of Item 2 — For use with Item 1D, proprietary channel shaped steel studs, min width as indicated under Item 5, spaced a max if 24 in. OC, fabricated from min 0.0200 in. thick galv steel. Studs 3/8 in. to 3/4 in. less in lengths than assembly heights.

MARINO\WARE A DIV OF WARE INDUSTRIES

INC — Viper20S™, Viper20D™

2E. Framing Members*— Steel Studs — In lieu of Item 2 - For Use with Item 1E- Channel shaped studs, , spaced a max of 24 in. OC. Studs to be cut 3/4 in. less than assembly height.

SCAFCO STEEL STUD MANUFACTURING CO — Type SUPREME Framing System

3. Wood Structural Panel Sheathing — (Optional, For use with Item 5 Only.)- (Not Shown) - 4 ft wide, 7/16 in. thick oriented strand board (OSB) or 15/32 in. thick structural 1 sheathing (plywood) complying with DOC PS1 or PS2, or APA Standard PRP-108, manufactured with exterior glue, applied horizontally or vertically to the steel studs. Vertical joints centered on studs, and staggered one stud space from wallboard joints. Attached to studs with flat-head self-drilling tapping screws with a min. head diam. of 0.292 in. at maximum 6 in. OC. in the perimeter and 12 in. OC. in the field. When used, fastener lengths for gypsum panels increased by min. 1/2 in.

4. Batts and Blankets* — (Required as indicated under Item 5) — Mineral wool batts, friction fitted between studs and runners. Min nom thickness as indicated under Item 5. See Batts and Blankets (BKNV or BZJZ) Categories for names of Classified companies.

4A. Batts and Blankets* — (Optional) — Placed in stud cavities, any glass fiber or mineral wool insulation bearing the UL Classification Marking as to Surface Burning Characteristics and/or Fire Resistance. See Batts and Blankets (BKNV or BZJZ) Categories for names of Classified companies.

5. Gypsum Board* — Gypsum panels with beveled, square or tapered edges, applied vertically or horizontally. Vertical joints centered over studs and staggered one stud cavity on opposite sides of studs. Vertical joints in adjacent layers (multilayer systems) staggered one stud cavity. Horizontal joints need not be backed by steel framing. Horizontal edge joints and horizontal butt joints on opposite sides of studs need not be staggered. Horizontal edge joints and horizontal butt joints in adjacent layers (multilayer systems) staggered a min of 12 in. The thickness and number of layers for the 1 hr, 2 hr, 3 hr and 4 hr ratings are as follows:

Wallboard Protection on Each Side of Wall

| Rating | Min Stud Depth, Items 2 & 2E | Min Stud Depth, Item 2A | No. of Layers & Thkns of Panel | Min Thkns of Insulation (Item 4) |
|---|---|---|---|---|
| 1 | 3-1/2 | 3-5/8 | 1 layer, 5/8 in. thick | Optional |
| 1 | 2-1/2 | 3-5/8 | 1 layer, 1/2 in. thick | 1-1/2 in. |
| 1 | 1-5/8 | 3-5/8 | 1 layer, 3/4 in. thick | Optional |
| 2 | 1-5/8 | 2-1/2 | 2 layers, 1/2 in. thick | Optional |
| 2 | 1-5/8 | 2-1/2 | 2 layers, 5/8 in. thick | Optional |
| 2 | 3-1/2 | 3-5/8 | 1 layer, 3/4 in. thick | 3 in. |
| 3 | 1-5/8 | 2-1/2 | 3 layers, 1/2 in. thick | Optional |
| 3 | 1-5/8 | 2-1/2 | 2 layers, 3/4 in. thick | Optional |
| 3 | 1-5/8 | 2-1/2 | 3 layers, 5/8 in. thick | Optional |
| 4 | 1-5/8 | 2-1/2 | 4 layers, 5/8 in. thick | Optional |
| 4 | 1-5/8 | 2-1/2 | 4 layers, 1/2 in. thick | Optional |
| 4 | 2-1/2 | 2-1/2 | 2 layers, 3/4 in. thick | 2 in. |

CANADIAN GYPSUM COMPANY — 1/2 in. thick Type C, IP-X2 or IPC-AR; WRC, 5/8 in. thick Type AR, C, IP-AR, IP-X1, IP-X2, IPC-AR, SCX, SHX, WRX or WRC; 3/4 in. thick Types IP-X3 or ULTRACODE

UNITED STATES GYPSUM CO — 1/2 in. thick Type C, IP-X2, IPC-AR or WRC; 5/8 in. thick Type SCX, SHX, WRX, IP-X1, AR, C, WRC, FRX-G, IP-AR, IP-X2, IPC-AR ; 3/4 in. thick Types IP-X3 or ULTRACODE

USG MEXICO S A DE C V — 1/2 in. thick Type C, IP-X2, IPC-AR or WRC; 5/8 in. thick Type AR, C, IP-AR, IP-X1, IP-X2, IPC-AR, SCX, SHX, WRX, WRC or; 3/4 in. thick Types IP-X3 or ULTRACODE

When Item 7B, Steel Framing Members*, is used, Nonbearing Wall Rating is limited to 1 Hr. Min. stud depth is 3-1/2 in., min. thickness of insulation (Item 4) is 3 in., and two layers of gypsum board panels (1/2 in. or 5/8 in. thick) shall be attached to furring channels as described in Item 6. One layer of gypsum board panels (1/2 in. or 5/8 in. thick) attached to opposite side of stud without furring channels as described in Item 6.

5A. Gypsum Board* — (As an alternate to Item 5) — 5/8 in. thick, 24 to 54 in. wide, applied horizontally as the outer layer to one side of the assembly. Secured as described in Item 6.

CANADIAN GYPSUM COMPANY — Type SHX.

UNITED STATES GYPSUM CO — Type FRX-G, SHX.

USG MEXICO S A DE C V — Type SHX.

5B. Gypsum Board* - (As an alternate to Item 5 when used as the base layer on one or both sides of wall, For direct attachment only, not to be used with Item 3) - Nom 5/8 in. thick lead backed gypsum panels with beveled, square or tapered edges, applied vertically. Vertical joints centered over studs and staggered min 1 stud cavity on opposite sides of studs. Wallboard secured to studs with 1-1/4 in. long Type S-12 steel screws spaced 8 in. OC at perimeter and 12 in. OC in the field.

RAY-BAR ENGINEERING CORP - Type RB-LBG

CONTINUED TO RIGHT

## UL DESIGN No. U419 - CONTINUED FROM LEFT

Design No. U419

5C. Gypsum Board* — (For Use With Item 2C) Rating Limited to 1 Hour. 5/8 in. thick, 48 in. wide, Gypsum panels with beveled, square or tapered edges, applied vertically or horizontally. (Vertical Application) - The gypsum board is to be installed on each side of the studs with 1 in. long Type S coated steel screws spaced 8 in. OC starting 4 in. from the edge of the board at the vertical edges and 12 in. OC starting 6 in. from the edge of the board at the center of each board. Gypsum boards are to be secured to the top and bottom track with screws spaced 8 in. OC starting 4 in. from the board edge. Fasteners shall not penetrate through both the stud and the track at the same time. Vertical joints are to be centered over studs and staggered one stud cavity on opposite sides of studs. (Horizontal Application) - The gypsum board is to be installed on each side of the studs with 1 in. long Type S coated steel screws spaced 8 in. OC starting 4 in. from the edge of the board at the vertical edges and 12 in. OC starting 6 in. from the edge of the board at the center of each board. Gypsum boards are to be secured to the top and bottom track with screws spaced 8 in. OC starting 4 in. from the board edge. Fasteners shall not penetrate through both the stud and the track at the same time. All horizontal joints are to be backed as outlined under section VI of Volume 1 in the Fire Resistive Directory.

CANADIAN GYPSUM COMPANY — Type SCX.

UNITED STATES GYPSUM CO — Type SCX.

USG MEXICO S A DE C V — Type SCX.

5D. Gypsum Board* — (As an alternate to Item 5) — 5/8 in. thick, 48 in. wide, applied vertically or horizontally. Secured as described in Item 6. For use with Items 1 and 2 only.

UNITED STATES GYPSUM CO — Type USGX.

5E. Gypsum Board* — Nominal 5/8 in. thick lead backed gypsum panels with beveled, square or tapered edges, applied vertically. Vertical joints centered over studs and staggered min 1 stud cavity on opposite sides of studs. Wallboard secured to studs with 1-1/4 in. long Type S-12 (or #6 by 1-1/4 in. long bugle head fine driller) steel screws spaced 8 in. OC at perimeter and 12 in. OC in the field.

NEW ENGLAND LEAD BURNING CO INC, DBA

NELCO — Nelco

6. Fasteners — (Not shown) — For use with Item 2 - Type S or S-12 steel screws used to attach panels to studs (Item 2) or furring channels (Item 7). Single layer systems: 1 in. long for 1/2 and 5/8 in. thick panels or 1-1/4 in. long for 3/4 in. thick panels, spaced 8 in. OC when panels are applied horizontally, or 8 in. OC along vertical and bottom edges and 12 in. OC in the field when panels are applied vertically. Two layer systems: First layer- 1 in. long for 1/2 and 5/8 in. thick panels or 1-1/4 in. long for 3/4 in. thick panels, spaced 16 in. OC. Second layer- 1-5/8 in. long for 1/2 in., 5/8 in. thick panels or 2-1/4 in. long for 3/4 in. thick panels, spaced 16 in. OC with screws offset 8 in. from first layer. Three-layer systems: First layer- 1 in. long for 1/2 in., 5/8 in. thick panels, spaced 24 in. OC. Second layer- 1-5/8 in. long for 1/2 in., 5/8 in. thick panels, spaced 24 in. OC. Third layer- 2-1/4 in. long for 1/2 in., 5/8 in. thick panels or 2-5/8 in. long for 5/8 in. thick panels, spaced 12 in. OC. Screws offset min 6 in. from layer below. Four-layer systems: First layer- 1 in. long for 1/2 in., 5/8 in. thick panels, spaced 24 in. OC. Second layer- 1-5/8 in. long for 1/2 in., 5/8 in. thick panels, spaced 24 in. OC. Third layer- 2-1/4 in. long for 1/2 in. thick panels or 2-5/8 in. long for 5/8 in. thick panels, spaced 24 in. OC. Fourth layer- 2-5/8 in. long for 1/2 in. thick panels or 3 in. long for 5/8 in. thick panels, spaced 12 in. OC. Screws offset min 6 in. from layer below.

6A. Fasteners — (Not shown) —For use with Item 2A - Type S or S-12 steel screws used to attach panels to studs (Item 2A). Single layer systems: 1 in. long for 1/2 and 5/8 in. thick panels or 1-1/4 in. long for 3/4 in. thick panels, spaced 8-1/2 in. OC with additional screws 1 in. and 2-1/2 in. from edges of the board when panels are horizontally. or 8 in. OC along vertical and bottom edges and 12 in. OC in the field when panels are applied vertically. Two layer systems applied vertically: First layer- 1 in. long for 1/2 and 5/8 in. thick panels or 1-1/4 in. long for 3/4 in. thick panels, spaced 16 in. OC. Second layer- 1-5/8 in. long for 1/2 in., 5/8 in. thick panels or 2-1/4 in. long for 3/4 in. thick panels, spaced 16 in. OC with screws offset 8 in. from first layer. Two layer systems applied horizontally: First layer- 1 in. long for 1/2 and 5/8 in. thick panels or 1-1/4 in. long for 3/4 in. thick panels, spaced 16 in. OC starting 8 in. from each edge of the board with an additional screw placed 1-1/4 in. from each edge of the board. Second layer- 1-5/8 in. long for 1/2 in., 5/8 in. thick panels or 2-1/4 in. long for 3/4 in. thick panels, spaced 16 in. OC starting 8 in. from each edge of the board with an additional screw placed 1-1/4 in. from each edge of the board with screws offset 8 in. from first layer. Three-layer systems: First layer- 1 in. long for 1/2 in., 5/8 in. thick panels, spaced 24 in. OC. Second layer- 1-5/8 in. long for 1/2 in., 5/8 in. thick panels, spaced 24 in. OC. Third layer- 2-1/4 in. long for 1/2 in., 5/8 in. thick panels or 2-5/8 in. long for 5/8 in. thick panels, spaced 12 in. OC. Screws offset min 6 in. from layer below. For all layers, an additional screw shall be placed 1-1/4 in. from each edge of the board. Four-layer systems: First layer- 1 in. long for 1/2 in., 5/8 in. thick panels, spaced 24 in. OC. Second layer- 1-5/8 in. long for 1/2 in., 5/8 in. thick panels, spaced 24 in. OC. Third layer- 2-1/4 in. long for 1/2 in. thick panels or 2-5/8 in. long for 5/8 in. thick panels, spaced 24 in. OC. Fourth layer- 2-5/8 in. long for 1/2 in. thick panels or 3 in. long for 5/8 in. thick panels, spaced 12 in. OC. Screws offset min 6 in. from layer below. For all layers, an additional screw shall be placed 1-1/4 in. from each edge of the board.

7. Furring Channels — (Optional, not shown, for single or double layer systems) — Resilient furring channels fabricated from min 25 MSG corrosion-protected steel, spaced vertically a max of 24 in. OC. Flange portion attached to each intersecting stud with 1/2 in. long Type S-12 steel screws. Not for use with Item 5A.

7A. Steel Framing Members (Not Shown)* — (Optional on one or both sides, not shown, for single or double layer systems) — As an alternate to Item 7, furring channels and Steel Framing Members as described below:

a. Furring Channels — Formed of No. 25 MSG galv steel. 2-3/8 in. wide by 7/8 in. deep, spaced max. 24 in. OC perpendicular to studs. Channels secured to studs as described in Item b. Gypsum board attached to furring channels as described in Item 6. Not for use with Item 5A.

b. Steel Framing Members* — Used to attach furring channels (Item 7Aa) to studs (Item 2). Clips spaced max. 48 in. OC. RSIC-1 clips secured to studs with No. 8 x 1-1/2 in. minimum self-drilling, S-12 steel screw through the center grommet. RSIC-V clips secured to studs with No. 8 x 9/16 in. minimum self-drilling, S-12 steel screw through the center hole. Furring channels are friction fitted into clips.

PAC INTERNATIONAL INC — Types RSIC-1, RSIC-V.

7B. Steel Framing Members (Optional, Not Shown)* — As an alternate to Item 7, for single or double layer systems, furring channels and Steel Framing Members on only one side of studs as described below:

a. Furring Channels — Formed of No. 25 MSG galv steel, spaced 24 in. OC perpendicular to studs. Channels secured to studs as described in Item b. Batts and Blankets placed in stud cavity as described in Item 5. Two layers of gypsum board attached to furring channels as described in Item 5. Not for use with Item 5A.

b. Steel Framing Members* — Used to attach furring channels (Item 7Ba) to one side of studs (Item 2) only. Clips spaced 48 in. OC., and secured to studs with two No. 8 x 2-1/2 in. coarse drywall screws, one through the hole at each end of the clip. Furring channels are friction fitted into clips.

KINETICS NOISE CONTROL INC — Type Isomax

7C. Steel Framing Members* — Optional - Not Shown - Used as an alternate method to attach resilient channels (Item 7). Clips attached at each intersection of the resilient channel and the steel studs (Item 2). Resilient channels are friction fitted into clips, and then clips are secured to the steel stud with min. 1 in. long Type S-12 steel screws through the center hole of the clip and the resilient channel flange.

KEENE BUILDING PRODUCTS CO INC — Type RC Assurance.

8. Joint Tape and Compound — Vinyl or casein, dry or premixed joint compound applied in two coats to joints and screw heads of outer layers. Paper tape, nom 2 in. wide, embedded in first layer of compound over all joints of outer layer panels. Paper tape and joint compound may be omitted when gypsum panels are supplied with a square edge.

9. Siding, Brick or Stucco — (Optional, not shown) — Aluminum, vinyl or steel siding, brick veneer or stucco, meeting the requirements of local code agencies, installed over gypsum panels. Brick veneer attached to studs with corrugated metal wall ties attached to each stud with steel screws, not more than each sixth course of brick.

10. Caulking and Sealants* — (Optional, not shown) — A bead of acoustical sealant applied around the partition perimeter for sound control.

UNITED STATES GYPSUM CO — Type AS

11. Lead Batten Strips — (Not Shown, For Use With Item 5B) - Lead batten strips, min 1-1/2 in. wide, max 10 ft long with a max thickness of 0.125 in. Strips placed on the interior face of studs and attached from the exterior face of the stud with two 1 in. long Type S-12 pan head steel screws, one at the top of the strip and one at the bottom of the strip. Lead batten strips to have a purity of 99.9% meeting the Federal specification QQ-L-201f, Grade "C". Lead batten strips required behind vertical joints of lead backed gypsum wallboard (Item 5B) and optional at remaining stud locations. Required behind vertical joints.

12. Lead Discs or Tabs — (Not Shown, For Use With Item 5B) - Used in lieu of or in addition to the lead batten strips (Item 11) or optional at other locations - Max 3/4 in. diam by max 0.125 in. thick lead discs compression fitted or adhered over steel screw heads or max 1/2 in. by 1-1/4 in. by max 0.125 in. thick lead tabs placed on gypsum boards (Item 5B) underneath screw locations prior to the installation of the screws. Lead discs or tabs to have a purity of 99.9% meeting the Federal specification QQ-L-201f, Grade "C".

13. Lead Batten Strips — (Not Shown, For Use With Item 5E) Lead batten strips, 2 in. wide, max 10 ft long with a max thickness of 0.142 in. Strips placed on the face of studs and attached to the stud with two min. 1 in. long min. Type S-8 pan head steel screws, one at the top of the strip and one at the bottom of the strip or with one min. 1 in. long min. Type S-8 pan head steel screw at the top of the strip. Lead batten strips to have a purity of 99.9% meeting the Federal specification QQ-L-201f, Grade "C". Lead batten strips required behind vertical joints of lead backed gypsum wallboard (Item 6) and optional at remaining stud locations.

14. Lead Tabs — (Not Shown, For Use With Item 5E) 2 in. wide, 5 in. long with a max thickness of 0.142 in. Tabs friction-fit around front face of stud, the stud folded back flange, and the back face of the stud. Tabs required at each location where a screw (that secures the gypsum boards, Item 6) will penetrate the steel stud. Lead tabs to have a purity of 99.9% meeting the Federal specification QQ-L-201f, Grade "C". Lead tabs may be held in place with standard adhesive tape if necessary.

*Bearing the UL Classification Mark — Last Updated on 2009-07-14

VCBO ARCHITECTURE
VALENTINER CRANE BRUNJES ONYON

VCBO ARCHITECTURE
524 SOUTH 600 EAST
SALT LAKE CITY, UT 84102
Phone: (801) 575-8800
Fax: (801) 531-9850
WWW: www.vcbo.com

DFCM CODE COMPLIANCE STAMP

**Student Activity Center**
**Stromberg Addition - BID SET**
Weber State University
3750 Harrison Blvd. Ogden, UT 84408

| Rev # | Date | Description |
|---|---|---|

Job # 12475
CAD File
Drawn Author Checked Checker
Date 10.03.2012
Owner # DFCM #12031810

UL RATED WALL ASSEMBLIES

G200

## Design No. D916

Design No. D916

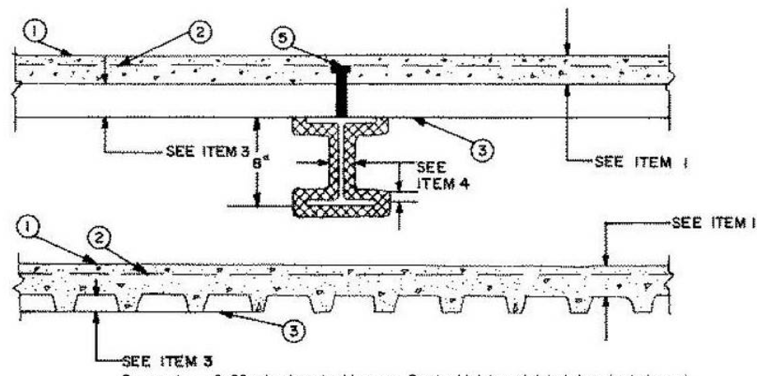
**Restrained Assembly Ratings — 3/4, 1, 1-1/2, 2 or 3 Hr.**

**(See Items 1, 6, 7, 8 and 11)**

**Unrestrained Assembly Rating — 0 Hr. (See Items 3, 4 and 4A)**

**Unrestrained Beam Ratings — 1, 1-1/2, 2 and 3 Hr.**

**(See Items 4, 4A, 7 and 11)**




**Supports —** 8x28 min size steel beams. Or steel joists or joist girders (not shown), composite or noncomposite. Welded or bolted to end supports. Designed per S.J.I. specifications for a max tensile stress of 30 ksi. May be either uncoated or provided with a shop coat of paint. For the 2 h or less Restrained or Unrestrained Beam Ratings, top and bottom chords shall each consist of two angles with a min total area of 0.96 and 0.77 sq in., respectively. Web members shall be either round bars or angles. Min area of the end diagonal web shall be 0.444 sq in. Min area of each of the first six interior diagonal webs shall be 0.406 sq in. All other interior webs shall have a min area of 0.196 sq in. For the 3 h Restrained or Unrestrained Beam Ratings, each of the top and bottom chords shall each consist of two angles with a min total area of 1.74 sq in. Web members shall be either round bars or angles. Min area of each of the first five end diagonal webs shall be 0.886 sq in. All other interior webs shall have a min area of 0.441 sq in. Bridging per S.J.I. specifications is required when noncomposite joists are used. For noncomposite joists, steel filler pieces of proper size, 1 to 2 in. long shall be welded to and between the top chord angles at midway between all top chord panel points.

1. **Normal Weight or Lightweight Concrete —** Normal weight concrete carbonate or siliceous aggregate, 3500 psi compressive strength, vibrated. Lightweight concrete, expanded shale, or slate aggregate by rotary-kiln method, or expanded clay aggregate by rotary-kiln or sintered-grate method, 3000 psi compressive strength, vibrated, 4 to 7 percent entrained air.

| Restrained Assembly Rating Hr | Concrete (Type) | Concrete Unit Weight pcf | Concrete Thkns In. |
|---|---|---|---|
| 1 | Normal Weight | 147-153 | 3-1/2 |
| 1-1/2 | Normal Weight | 147-153 | 4 |
| 2 | Normal Weight | 147-153 | 4-1/2 |
| 3 | Normal Weight | 147-153 | 5-1/4 |
| 3/4 or 1 (See Item 6) | Lightweight | 107-113 | 2-1/2 |
| 1 | Lightweight | 107-120 | 2-5/8 |
| 1-1/2 | Lightweight | 107-113 | 3 |
| 2 | Lightweight | 107-113 | 3-1/4 |
| 2 | Lightweight | 107-116 | 3-1/4* |
| 2 | Lightweight | 114-120 | 3-1/2 |
| 3 | Lightweight | 107-113 | 4-3/16 |
| 3 | Lightweight | 114-120 | 4-7/16 |

*For use with 2 or 3 in. steel floor and form units only.

2. **Welded Wire Fabric —** 6 x 6, 10 x 10 SWG.
3. **Steel Floor and Form Units* —** Composite 1-1/2, 1-5/8, 2 or 3 in. deep galv units or 4-1/2 in. deep noncomposite galvanized units. Fluted units may be uncoated or phosphatized/painted. Min gauges are 22 MSG for fluted and 20/20 MSG for cellular units. The following combinations of units may be used:
   (1) all 18, 24, 26, 28 or 36 in. wide cellular.
   (2) all fluted.
   (3) one or two 3 in. deep, 12 in. wide, 18/18 MSG min cellular units, alternating with 3 in. deep fluted or other cellular.
   (4) any blend of fluted and 18, 24, 26, 28, or 36 in. wide cellular.
   (5) 3 in. deep, 30 in. wide cellular with 8-1/8 in. wide valley along side joints may be used when 3/8 in. diam reinforcing bars are placed 1-1/2 in. to each side of side joints and 1 in. above bottom of unit.
   (6) Corrugated, 1-5/16 in. deep, 30 in. wide, 24 MSG min galv units with shear wires factory welded to deck corrugations. Welded to supports 12 in. OC. through welding washers. For shear wire spacing of 8 in. or less the steel deck stress shall not exceed 20 KSI. For shear wire spacing greater than 8 in. OC. but less than or equal to 12 in. OC., steel deck stress shall not exceed 12 KSI.

**ASC STEEL DECK, DIV OF ASC PROFILES**

**INC** — 24, 30, or 36 in. wide, Types B Hi-Form, BF Hi-Form, N Hi-Form, NF Hi-Form, 2W Hi-Form, 2WF Hi-Form, 3W Hi-Form, 3WF Hi-Form BR Hi-Form, BMOD Hi-Form, BRMOD Hi-Form, DGB Hi-Form, DGBF Hi-Form, DGN Hi-Form, DGN32 Hi-Form, DGNF Hi-Form, DGNF32 Hi-Form, DG2W Hi-Form, DG2WF Hi-Form, DG3W Hi-Form, and DG3WF Hi-Form; 32 in. wide Type N-32, NF32, DGN-32, DGNF32; 24 or 30 in. wide Types ASC2 or ASC3. All units may be galvanized or Prime Shield.

**CANAM STEEL CORP** — 36 in. wide Type P-3623, P-3606, P-3615 and 24 in wide Type P-2432 composite.

**CENTRIA** — QL Types, 24 in. wide 3 or 3 inverted, UKX, UKX-3, 2 in. 99, AKX, 21 or 21 inverted, 121, NKX, TKX; 24 or 30 in. wide GKX, GKXH, GKX-A; 36 in. wide 99, AKX, WKX; 24, 26, or 36 in. wide NKX; 1.5NKC, NKC, AKX, 2 or 3 in. TKC; 12 in. wide noncomposite Sec. 12; 17 in. wide 21; 26 or 28 in. wide UKX, 87.5 cm wide. Side joints of QL, 99, 121, WKX, TKX, TKC, and Metric units - QL-77-900; QLC-78-900 may be welded together 60 in. OC. Side joints of 99, AKX, WKX, GKX, GKX-A, TKX and Metric units - QL-77-900 and QLC-78-900 may be fastened together with min 1 in. long No. 12x14 self-drilling, self-tapping steel screws 36 in. OC.

**CHIA TEH CONSTRUCTION MATERIAL CO LTD** — 24 or 36 in. wide Mac-Lok 3; 24 in. wide CFD-3.

**CANAM STEEL CORP** — 24 in. wide, Types 1-1/2 , 2 or 3 in. LOK-Floor and LOK-Floor Cell; 36 in. wide, Types 2 or 3 in. LOK-Floor and LOK-Floor Cell; 24 in. wide, Types N-LOK and N-LOK Cell; 24, 30 or 36 in. wide, Type 1-1/2 in. B-LOK and B-LOK Cell.

**CONSOLIDATED SYSTEMS INC** — 24 in. wide Types CFD-2, CFD-3; 24, 30 or 36 in. wide Type CFD-1.5; 24 or 36 in. wide Types Mac-Lok 2, Mac-Lok 3; 24 in. wide, Types B2C, B2FC, NC, NFC; 30 in. wide Type B3C; 12 in. wide Mac-Way cellular 45 MOW, 2-633 MTWA, 3-633 MTWA, 2-633MTWV, 3-633MTWV+, 24 in. wide Type Versa-Dek.

**DECK WEST INC** — 36 in. wide Type B-DW, Inverted B-DW, BA-DW, Inverted BA-DW, 2-DW or 3-DW. Side joints of Type 2-DW and 3-DW may be fastened together with min 1 in. long No. 12 x 14 self-drilling, self-tapping steel screws 36 in. OC.

**EPIC METALS CORP** — 24 in. wide Types EC150, ECP150, EC300, ECP300, EC366, ECP366, EC150, EC300 inverted, ECA, 30 in. wide Types ECB150, ECBR150; 36 in. wide Type EC266.

**GENS METALS INC** — 24 or 36 in. wide Types LF2, LF3.

**MARLYN STEEL DECKS INC** — Type 1.5 CF, 2.0 CF or 3.0 CF.

**HAMBRO STRUCTURAL SYSTEMS, DIV OF**

**CANAM STEEL CORP** — 36 in. wide, 1-1/2 in. Type P3615HB. The max superimposed loadings for Type P3615HB units shall not exceed 250 PSF. For single spans, the use of the units shall be limited to 5 ft 6 in., 6 ft 0 in. and 6 ft 6 in. max spans for the 22, 20 and 18 gauge units, respectively. For multiple spans, 18 gauge units may be used on a max 7 ft 6 in. spans with a max total superimposed loading of 240 PSF.

**MORIN CORP** — 24, 30 or 36 in. wide Types LXR-B, LXR-B inverted; 24 or 36 in. wide Type LXR-3W; 36 in. wide Type LXR-2W.

**NEW MILLENNIUM BUILDING SYSTEMS L L C** — Type 1.5CD, 2.0CD, or 3.0CD. Units may be phos/painted or galvanized.

## Design No. D916 (CONT.)

Design No. D916

**ROOF DECK INC** — 36 in. wide Types LOK 1 1/2, LOK 1 1/2 R; 24 in. wide Types LOK-2, LOK-3.

**VALLEY JOIST** — 24 or 36 in. wide Types WVC 1-1/2 or WVC 2.

**VERCO DECKING INC - A NUCOR CO** — 24, 30 or 36 in. wide Types PLB, B, BR; 24 or 36 in. wide Types PLW2, W2, PLW3, W3; 24 in. wide Types PLN, N. 12 in. wide PLW2, W2, PLW3 or W3 units may be blended with 24 or in. wide PLW2, W2, PLW3 or W3 units, respectively. Units may be phos/ptd.

**VICWEST CORP** — 24 in. wide Type HB306; 32 in. wide Types HB308-INV and HB30V; 36 in. wide Types HB938, HB938CL and HB938-INV.

**VULCRAFT, DIV OF NUCOR CORP** — 24, 30 or 36 in. wide, Types 1.5VL, 1.5VLI, 1.5VLP, 1.5VLR; 24 or 36 in. wide, Types 2VLI, 3VLI, 2VLP, 3VLP. Side joints of Type 1.5VL may be fastened together with min 1 in. long No. 12x14 self-drilling, self-tapping steel screws 36 in. OC max.

**WIREMOLD CO** — 24 in. wide, Types 2 or 3 in. WDR.

**WHEELING-PITTSBURGH STEEL CORP, DIV**

**OF WHEELING CORRUGATING CO** — 30 in. wide Types SB-150, -150N, -150NR, -150R; 30 or 36 in. wide Types SB-B16LF, -B16LFR; 24 or 36 in. wide Types SB-P21LF, -P31LF; 24 in. wide Types SB-200, -300. Type SB-B16LFR may be phos/ptd. Lock Form Type, 24, 30 or 36 in. Types B16LF, B16LFNV; 24 in. wide Types C34LF, N34LF, P34LF, P34LFNV; 12, 24 or 36 in. wide Types C20LF, C30LF, C31LF, P20LF, P30LF, P31LF; 36 in. wide Types 1.5 SB, 1.5 SBR; 24 or 36 in wide Types 2.0 SB, 3.0 SB, 36 in. wide Type High Strength 1.5 SBI, 36 in. wide Type High Strength 1.5 SBN; 30 in wide, Types 1-1/2 in. V-Grip, 1-1/2 in. RV-Grip; 24 or 36 in. wide Types 212V-Grip, 312 V-Grip; 36 in. wide Types 212VW3-Wireway, 312VW3-Wireway.

Components for field — assembled cellular metal raceway units:

Raceway bottom — 24 or 36 in. wide Types 212VS, 312VS.

Raceway cover plate — Types CP-12, CP-16.

Raceway divider — Types DC-20, DC-25.

Raceway isolation trough — Types T-20, T-25, T-30.

Spacing of welds attaching units to supports shall be 12 in. OC for 12, 24, and 36 in. wide units, four welds per sheet for 30 in. wide units, 6 in. OC for 18 in. wide and Sec. 12 units. Unless noted otherwise, adjacent units button-punched or welded together 36 in. OC along side joints. Adjacent 18 in. wide units welded together 30 in. OC along side joints. For **3 Hr. Rating,** units with overlapping type side joints welded together 24 in. OC max.

When a superimposed load of 250 PSF is desired the spacing of welds or button-punches shall not exceed 24 in. OC along side joints.

+12 in. wide, 1-1/2 in. deep Mac-Way units may be blended with 24 in. wide B2C or 30 in. wide B3C units in a blend of one cell to one or more fluted units. 12 in. wide, 2 in. deep Mac-Way units may be blended with 36 in. wide Mac-Lock 2 units in a blend of one cell to one or more fluted units. 12 in. wide, 3 in. deep Mac-Way units may be blended with 36 in. wide Mac-Lock3 units in a blend of one cell to one or more fluted units. The side edge of the fluted unit is placed on the top of the side edge of the Mac-Way unit and the two are welded together with welding washers spaced a max. of 32 in. OC for Mac-Lock 2 or 3 units and a max. of 24 in. OC for the B2C or B3C units.

**The Unrestrained Assembly Rating** is equal to the Unrestrained Beam Rating for a max of 3 Hr. and is limited to the following units and limitations:

(a) 1-1/2 in. deep, 24 in. wide, 22 MSG or thicker fluted with clear spans not more than 7 ft 8 in.

(b) 1-1/2 in. deep, 24 in. wide, 20 MSG or thicker fluted with clear spans not more than 8 ft 8 in.

(c) 1-1/2 in. deep, 24 in. wide, 16 MSG or thicker fluted and 18/18 MSG or thicker cellular with clear spans not more than 9 ft 11 in.

(d) 3 in. deep, 36 in. wide, 18 MSG or thicker fluted and 24 in. wide, 20/18 MSG or thicker cellular with clear spans not more than 13 ft 2 in.

4. **Spray-Applied Fire Resistive Materials* —** Applied by mixing with water and spraying in one or more coats to a final thickness as shown in the tables below, in the tables below to steel beam surfaces which must be clean and free of dirt, loose scale and oil. Min avg and min ind density of 15/14 pcf respectively. Min avg and min ind density of 19/18 pcf respectively for Type 7GP and 7HD. For method of density determination, refer to Design Information Section.

| Restrained Assembly Rating Hr | Unrestrained Assembly Rating Hr | Unrestrained Beam Rating Hr | Spray Applied Fire Resistive Mtl Thkns on Beam In. |
|---|---|---|---|
| 1 | 1 | 1 | 1/2 |
| 1-1/2 | 1 | 1 | 1/2 |
| 1-1/2 | 1-1/2 | 1-1/2 | 13/16 |
| 2 | 1 | 1 | 1/2 |
| 2 | 2 | 2 | 1-1/16 |
| 3 | 1-1/2 | 1-1/2 | 13/16 |
| 3 | 3 | 3 | 1-9/16 |

The thicknesses of Spray-Applied Fire Resistive Materials shown in the table below are applicable when the thickness applied to the beams' lower flange edges is reduced by 1/2 that shown in the table:

| Restrained Assembly Rating Hr | Unrestrained Assembly Rating Hr | Unrestrained Beam Rating Hr | Spray Applied Fire Resistive Mtl Thkns on Beam In. |
|---|---|---|---|
| 1 | 1 | 1 | 9/16 |
| 1-1/2 | 1 | 1 | 9/16 |
| 1-1/2 | 1-1/2 | 1-1/2 | 7/8 |
| 2 | 1 | 1 | 9/16 |
| 2 | 2 | 2 | 1-3/16 |
| 3 | 1-1/2 | 1-1/2 | 7/8 |
| 3 | 3 | 3 | 1-3/4 |

The thicknesses of Spray-Applied Fire Resistive Materials shown in the table below are applicable when the thickness applied to the beams' lower flange edges is reduced by 1/2 that shown in the table and the beams are supporting all fluted floor or form units w/lightweight concrete only:

| Restrained Assembly Rating Hr | Unrestrained Assembly Rating Hr | Unrestrained Beam Rating Hr | Spray Applied Fire Resistive Mtl Thkns on Beam In. |
|---|---|---|---|
| 1 | 1 | 1 | 7/16+ |
| 1-1/2 | 1 | 1 | 7/16+ |
| 1-1/2 | 1-1/2 | 1-1/2 | 3/4 |
| 2 | 1 | 1 | 7/16+ |
| 2 | 2 | 2 | 1 |
| 3 | 1-1/2 | 1-1/2 | 3/4 |
| 3 | 3 | 3 | 1-9/16 |

+Thickness applied to beams' lower flange edge to be 1/4 in. min.

The thickness of material required on the steel joist for the various ratings are shown in the following table:

| Restrained or Unrestrained Assembly Rating Hr | Unrestrained Beam Rating Hr | Spray Applied Fire Resistive Mtl Thkns on Joist & Bridging In. |
|---|---|---|
| 1 | 1 | 1-1/8 |
| 1-1/2 | 1-1/2 | 1-3/4 |
| 2 | 2 | 2-1/4 |
| 3 | 3 | 2-7/8 |

## Design No. D916 (CONT.)

Design No. D916

**ARABIAN VERMICULITE INDUSTRIES** — Type MK-5.

**W R GRACE & CO - CONN** — Types MK-4, MK-5, MK-6/HY, MK-6s, RG, Monokote Acoustic 1.

**GRACE KOREA INC** — Types MK-6/CBF, MK-6/ED, MK-6/HY, MK-6s, Monokote Acoustic 1.

**PYROK INC** — Type LD.

**SOUTHWEST FIREPROOFING PRODUCTS CO** — Types 4, 5, 5EF, 5GP, 5MD, 7GP, 7HD, 8EF, 8GP, 8MD, 9EF, 9GP, 9MD.

4A. **Alternate Spray-Applied Fire Resistive Materials* —** Applied by mixing with water and spraying in one or more coats to a final thickness as shown in the tables below to steel beam surfaces which must be clean and free of dirt, loose scale and oil. When fluted steel deck is used the area between the steel deck and the beams top flange shall be sprayed min avg and min ind density of 19/18 pcf, respectively for Types 7GP, 7HD, 105. Min avg and min ind density of 22/19 pcf, respectively for Types Z-106, Z-106/G, Z-106/HY. For method of density determination, refer to Design Information Section.

| Restrained Assembly Rating Hr | Unrestrained Assembly Rating Hr | Unrestrained Beam Rating Hr | Spray Applied Fire Resistive Mtl Thkns on Beam In. |
|---|---|---|---|
| 1 | 1 | 1 | 1/2 |
| 1-1/2 | 1 | 1 | 1/2 |
| 1-1/2 | 1-1/2 | 1-1/2 | 13/16 |
| 2 | 1 | 1 | 1/2 |
| 2 | 2 | 2 | 1-1/16 |
| 3 | 1-1/2 | 1-1/2 | 13/16 |
| 3 | 3 | 3 | 1-9/16 |

The thicknesses of Spray-Applied Fire Resistive Materials shown in the table below are applicable when the beams are supporting all fluted floor or form units w/lightweight concrete only:

| Restrained Assembly Rating Hr | Unrestrained Assembly Rating Hr | Unrestrained Beam Rating Hr | Spray Applied Fire Resistive Mtl Thkns on Beam In. |
|---|---|---|---|
| 1 | 1 | 1 | 7/16 |
| 1-1/2 | 1 | 1 | 7/16 |
| 1-1/2 | 1-1/2 | 1-1/2 | 3/4 |
| 2 | 1 | 1 | 7/16 |
| 2 | 2 | 2 | 1 |
| 3 | 1-1/2 | 1-1/2 | 3/4 |
| 3 | 3 | 3 | 1-5/16 |

+Thickness applied to beams lower flange edge to be 1/4 in. min.

The thickness of material required on the steel joist for the various Ratings are shown in the following table:

| Restrained or Unrestrained Assembly Rating Hr | Unrestrained Beam Rating Hr | Type of Concrete Slab | Spray Applied Fire Resistive Mtl Thkns In. Joist & Bridging |
|---|---|---|---|
| 1 | 1 | NW or LW | 1-1/8 |
| 1-1/2 | 1-1/2 | NW or LW | 1-3/4 |
| 2 | 2 | NW or LW | 2-1/4 |
| 3 | 3 | NW or LW | 2-7/8 |

**W R GRACE & CO - CONN** — Types Z- 105, Z-106, Z-106/G, Z-106/HY, Monokote Acoustic 5.

**GRACE KOREA INC** — Types Z-106, Z-106/G, Z-106/HY, Monokote Acoustic 5.

**SOUTHWEST FIREPROOFING PRODUCTS CO** — Types 7GP, 7HD.

4B. **Alternate Spray-Applied Fire Resistive Materials —** Applied by mixing with water and spraying in one or more coats to a final thickness as shown in the tables below to steel beam surfaces which must be clean and free of dirt, loose scale and oil. The thicknesses shown in the table below are applicable to beams supporting all fluted floor or form units. Min avg and min ind density of 40/36 pcf, respectively. Min avg and min ind density of 40/36 pcf respectively for Types Z-146, Z-146PC and Z-146T cementitious mixture. Min avg and min ind density of 50/45 pcf respectively for Types Z-156, Z-156T and Z-156PC.

For density determination refer to Design Information Section.

| Unrestrained | | | Spray Applied Fire Resistive |
|---|---|---|---|
| Beam Rating Hr | Restrained Assembly Rating Hr | Concrete Type | Mtl Thkns on Beam In. |
| 1 | 1, 1-1/2, 2 | LW | 9/16 |
| 1-1/2 | 1, 1-1/2, 2, 3 | LW | 7/8 |
| 1 | 1, 1-1/2, 2 | LW | 3/4 |
| 1-1/2 | 1, 1-1/2, 2, 3 | LW | 1 |

**GRACE KOREA INC** — Type Z-146 investigated for exterior use

**W R GRACE & CO - CONN** — Types Z-146, Z-146T, Z146PC, Z-156, Z-156T and Z-156PC investigated for exterior use

5. **Shear-Connector Studs — Optional —** Studs 3/4 in. diam by 3 in. long, for 1-1/2 in. deep form units to 5-1/4 in. long for 3 in. deep form units, headed type or equivalent per AISC specifications. Welded to the top flange of the beam through the steel form units.

6. **Electrical Inserts —** (Not shown) Classified as **"Outlet Boxes and Fittings Classified for Fire Resistance."**

**CENTRIA** — Preset Inserts

For use with 2-1/2 in. lightweight concrete topping over QL-WKX steel floor units. Installed over factory-punched holes in floor units per accompanying installation instructions.

Spacing shall not be more than one insert in each 14 sq ft. of floor area with spacing along floor units not less than 48 in. OC. The holes cut in insert cover for passage of wires shall be no more than 1/8 in. larger diam. than wire. Restrained Assembly Rating is 3/4 hr with Tapmate II-FS-1 and 1 hr with Tapmate II-FS-2 inserts.

**CENTRIA** — Tapmate II-FS-1, II-FS-2; Series KEB.

(2) **Wiremold Co.** — After set Inserts.

Single-service after set inserts installed per accompanying installation instructions in 2-1/2 in. diam hole core-drilled through min 3-1/4 in. thick concrete topping to top of cell of any min 3 in. deep cellular steel floor unit specified under Item 3. Spacing shall be no more than one insert in each 10 sq ft of floor area in each span with a min center to center spacing of 16 in. If the high potential and low potential raceways of the cellular steel floor unit are separated by a valley filled with concrete, the center to center spacing of the high potential and low potential single-service after set inserts may be reduced to a min of 7-1/2 in. Restrained Assembly Rating is 2 hr or less with internally protected type 436 after set insert with Type M4-, M6- or M8- Series single-service activation fitting.

**WIREMOLD CO** — Internally protected Type 436 after set insert with Type M4-, M6- or M8- Series single-service activation fitting.

## Design No. D916 (CONT.)

Design No. D916

7. **Mineral and Fiber Boards* —** (Optional, not shown). Applied over concrete floor with no restriction on board thickness. When mineral and fiber boards are used, the unrestrained beam rating shall be increased by a minimum of 1/2 hr.

**See Mineral and Fiber Board** (CERZ) category for names of manufacturers.

8. **Roof Covering Materials* —** (Optional, not shown)Consisting of materials compatible with insulations described herein which provide Class A, B or C coverings. See Built-Up Roof Covering Materials in Building Materials Directory.

9. **Insulating Concrete —** (not shown) Optional. Various types of insulating concrete prepared and applied in the thickness indicated:
   A. **Vermiculite Concrete —** (not shown) Optional.
      1. Blend 6 to 8 cu. ft. of Vermiculite Aggregate* to 94 lb. Portland Cement and air entraining agent. Min thickness of 2 in. as measured to the top surface of the structural concrete or foamed plastic (Item 10) when it is used.

      **ELASTIZELL CORP OF AMERICA**

      **SIPLAST INC**

      **VERMICULITE PRODUCTS INC**

      2. Blend 3.5 cu. ft. of Type NVC Concrete Aggregate* or Type NVS Vermiculite Aggregate* coat, 1/8 in. thickness beneath foamed plastic (Item 10) when used, 1 in. min topping thickness.

      **SIPLAST INC**

      **VERMICULITE PRODUCTS INC**

      Vermiculite concrete may be covered with Roof Covering Materials (Item 8).

   B. **Cellular Concrete — Roof Topping Mixture* —** concentrate mixed with water and Portland cement per manufacturers specifications. Cast dry density and 28—day min. compressive strength of 190 psi as determined with ASTM C495— 66.

   **CELCORE INC** — Type Celcore with cast dry density of 31 (+ or - 3.0) pcf or Type Celcore MF with cast dry density of 29 (+ or - 3.0) pcf.

   **CELLULAR CONCRETE L L C** — Cast dry density of 37 (+ or -) 3.0 pcf.

   **ELASTIZELL CORP OF AMERICA** — Type II. Mix #1 of cast dry density 39 (+ or -) 3.0 pcf, Mix #2 of cast dry density 40 (+ or -) 3.0 pcf, Mix #3 of cast dry density 47 (+ or -) 3.0 pcf.

   C. **Cellular Concrete-Roof Topping Mixture* —** Concentrate mixed with water and Portland cement per manufacturers specifications. 28-day min. compressive strength of 190 psi as determined with ASTM C495-66.

   **LITE-CRETE INC** — Cast dry density of 29 (+ or -) 3.0 pcf.

   **SIPLAST INC** — Mix No. 1 or 2. Cast dry density of 32+3 (Mix No. 1) or 36+3 (Mix No. 2) pcf.

   D. **Perlite Concrete —** 6 cu ft. of Perlite Aggregate* to 94 lb of Portland Cement and 1-1/2 pt air entraining agent. Min. thickness 2 in. as measured to the top surface of structural concrete or foamed plastic (Item 10A) when it is used.

   See Perlite Aggregate (CFFX) in Fire Resistance Directory for names of manufacturers.

   E. **Cellular Concrete — Roof Topping Mixture* —** Foam Concentrate mixed with water, Portland Cement and UL Classified Vermiculite Aggregate per manufacturer's application instructions. Cast dry density of 33 (+ or -) 3.0 pcf and 28-day compressive strength of min 250 psi as determined in accordance with ASTM C495-86.

   **CELLULAR CONCRETE L L C** — Mix No. 3.

   **SIPLAST INC** — Mix No. 3.

   F. **Floor Topping Mixture* —** (Optional, not shown) — Approx 4.5 gal of water to 41 lbs of NVS Premix floor topping mixture. Slurry coat 1/8 in. thickness beneath foamed plastic (Item 10) when used , 1 in. min topping thickness.

   **SIPLAST INC**

   Floor Topping Mixture may be covered with Built-Up or Single Membrane Roof Covering.

10. **Foamed Plastic* —** (optional — Not Shown) For use only with vermiculite (Item 9A) or cellular (Item 9C) concretes — Rigid polystyrene foamed plastic insulation having slots and/or holes sandwiched between vermiculite concrete slurry which is applied to the normal or lightweight concrete surface and vermiculite concrete topping (Item 9A). Max. Thickness to be 8 in.

**SIPLAST INC**

**VERMICULITE PRODUCTS INC**

10A. **Foamed Plastic* —** For use only with cellular concrete. Nominal 24 by 48 by max. 8 in. thick polystyrene foamed plastic insulation boards having a density of 1.0 + 0.1 pcf encapsulated within cellular concrete topping (Item 98). Each insulation board shall contain six nominal 3 in. diameter holes oriented in two rows of three holes each with the holes spaced 12 in. OC, transversely and 16 in. OC longitudinally.

See Foamed Plastic* (BRYX) category in Building Materials Directory or Foamed Plastic* (CCVW) category in Fire Resistance Directory for list of manufacturers.

11. **Foamed Plastic* —** (Optional, not shown). Polyisocyanurate roof insulation, applied over concrete floor with no restriction on insulation thickness. When polyisocyanurate insulation is used, the unrestrained beam rating shall be increased by a minimum of 1/2 hr.

12. **Metal Lath —** (Not Shown) — (Required with Z-146, Z-146T, Z146PC, Z-156, Z-156T and Z-156PC, otherwise optional) - Metal lath may be used to facilitate the spray application of Spray-Applied Fire Resistive Materials on steel bar joist and trusses. The diamond mesh, 3/8 in. expanded steel lath, 1.7 to 3.4 lb per sq yd is secured to both sides of each steel joist with No. 18 SWG galv steel wire at joist web and bottom chord members spaced 15 in. OC max. When used, the metal lath is to be fully covered with Spray-Applied Fire Resistive.

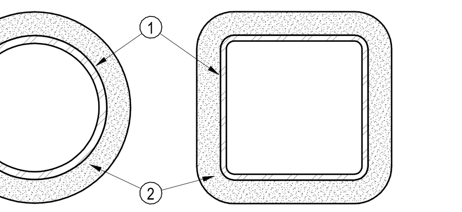
See **Foamed Plastic** (CCVW) category for list of manufacturers.

*Bearing the UL Classification Mark

Last Updated on 2010-10-05

## Design No. X771 Rating - 3/4, 1, 1 1/2, 2, 3 AND 4 HR COL. PROTECTION

**Design No. X771**




**Ratings — 3/4, 1, 1-1/2, 2, 3 and 4 hr**

**1. Steel Pipe or Tube Column — Steel circular pipe with diameter (OD) ranging from a minimum of 3 in. to a maximum of 32 in. with a minimum wall thickness of 3/16 in.**

**Steel square or rectangular tube with outside wall dimensions ranging from a minimum 3 in. to a maximum of 32 in. and a minimum wall thickness of 3/16 in.**

**The A/P ratio of the steel pipe or tube (see Item 2) shall range from 0.18 to 2.0.**

**2. Spray-Applied Fire Resistive Materials* — Applied by mixing with water and spraying in one or more coats to steel surfaces which must be clean and free of dirt, loose scale and oil. Min avg and ind density of 15/14 pcf respectively. Min avg and min ind density of 22/19 pcf respectively for Types Z-106, Z-106/G. Min avg and min ind density of 19/18 pcf respectively for Types 7GP and 7HD. For method of density determination, see Design Information Section, preceding these designs.**

**The hourly rating of the structural member is dependent upon the ratio of A/P and the thickness of Spray-Applied Fire Resistive Materials, where A is the cross sectional area of the pipe or tube and P is the heated perimeter.**

**The A/P ratio of a circular pipe is determined by:**

$$A/P \text{ pipe} = \frac{t(d - t)}{d}$$

**Where:**
**d = the outer diameter of the pipe (in.)**
**t = the wall thickness of the pipe (in.)**

**The A/P ratio of a rectangular or square tube is determined by:**

$$A/P \text{ tube} = \frac{t(a + b - 2t)}{a + b}$$

**Where:**
**a = the outer width of the tube (in.)**
**b = the outer length of the tube (in.)**
**t = the wall thickness of the tube (in.)**

**The thickness of Spray-Applied Fire Resistive Materials for ratings of 3/4, 1, 1-1/2, 2, 3 and 4 h of a steel pipe or tube can be determined by the equation:**

$$h = \frac{R - 0.20}{4.43 (A/P)}$$

**Where:**
**R = the hourly rating (hrs).**
**h = the thickness of Spray-Applied Fire Resistive Materials, minimum 1/4 in., maximum 3-7/8 in.**

**ARABIAN VERMICULITE INDUSTRIES — Types MK-5, MK-6/CBF, MK-6/ED, MK-6/HY, MK-6s, Sonophone 1, Sonophone 5, Z-106, Z-106/G.**

**GRACE KOREA INC — Types MK-6/CBF, MK-6/ED, MK-6/HY, MK-6s, Monokote Acoustic 1, Monokote Acoustic 5, Z-106, Z-106/G.**

**PYROK INC — Type LD.**

**SOUTHWEST FIREPROOFING PRODUCTS CO — Types 4, 5, 5EF, 5GP, 5MD, 7GP, 7HD, 8EF, 8GP, 8MD, 9EF, 9GP, 9MD.**

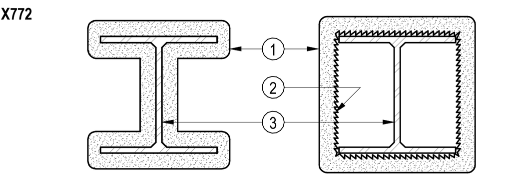
**VERMICULITE PRODUCTS INC — Types MK-4, MK-5.**

**W R GRACE & CO - CONN — Types MK-4, MK-5, MK-6/HY, MK-6s, Monokote Acoustic 1, Monokote Acoustic 5, RG, Z-106, Z-106/G.**

***Bearing the UL Classification Mark** — **Last Updated on 2007-03-13**

## Design No. X772 Rating - 1, 1 1/2, 2, 3 AND 4 HR COL. PROTECTION

**Design No. X772**




**Ratings — 1, 1-1/2, 2, 3 and 4 hr.**

**1. Spray-Applied Fire Resistive Materials* — Applied by mixing with water and spraying in more than one coat to the thicknesses shown below, to steel surfaces which are clean and free of dirt, loose scale, and oil. Min avg and min ind density of 15/14 pcf respectively. Min avg and min ind density of 22/19 pcf respectively for Types Z-106, Z-106/G. Min avg and min ind density of 19/18 pcf respectively for Types 7GP and 7HD. Min avg and min ind density of 40/36 pcf respectively for Types Z-146, Z-146PC and Z-146T cementitious mixture. Min avg and min ind density of 50/45 pcf respectively for Types Z-156, Z-156T and Z-156PC. For method of density determination, see Design Information Section, Sprayed Material.**

**The thickness of Spray-Applied Fire Resistive Materials to be applied to all surfaces of the column (Item 1) required for rating periods of 1 h, 1-1/2 h, 2 h, 3 h, 4 h may be determined by the equation:**

$$h = \frac{R}{1.05 (W/D) + 0.61}$$

**Where:**
**h = Spray-Applied Fire Resistive Materials thickness in the range 0.25-3.875 in.**
**R = Fire resistance rating in hours (1 - 4 h)**
**D = Heated perimeter of steel column in inches**
**W = Weight of steel column in lbs per foot**
**W/D = 0.33 to 6.62**

**As an alternate to the equation, the minimum thickness of Spray-Applied Fire Resistive Materials required for various fire resistance ratings of contour sprayed or boxed columns may be determined from the table below:**

| | | Min Thk In. | | | | |
|---|---|---|---|---|---|---|
| Col Size | W/D | 1 Hr | 1-1/2 Hr | 2 Hr | 3 Hr | 4 Hr |
| W6X9 | 0.33 | 1-1/8 | 1-1/2 | 2 | 2-1/2 | 3-13/16 |
| W6x16 | 0.57 | 13/16 | 1-1/4 | 1-11/16 | 2-1/2 | 3-5/16 |
| W8x28 | 0.67 | 3/4 | 1-3/16 | 1-3/8 | 2 | 2-11/16 |
| W10x49 | 0.83 | 11/16 | 7/8 | 1-1/8 | 1-11/16 | 2-1/2 |
| W14x228 | 2.49 | 5/16 | 1/2 | 9/16 | 7/8 | 1-1/4 |
| W14x730 | 6.62 | 5/16 | 5/16 | 5/16 | 3/8 | 9/16 |

**The thicknesses contained in the table below are applicable when the Spray-Applied Fire Resistive Materials applied to columns' flange tips are reduced to one-half that shown in the table below:**

| Min | | Min Thk In. | | | | |
|---|---|---|---|---|---|---|
| Col Size | W/D | 1 Hr | 1-1/2 Hr | 2 Hr | 3 Hr | 4 Hr |
| W6x9 | 0.33 | 1-1/8 | 1-5/8 | 2-1/16 | 2-15/16 | 3-13/16 |
| W6x16 | 0.57 | 7/8 | 1-5/16 | 1-3/4 | 2-9/16 | 3-3/8 |
| W8x28 | 0.67 | 13/16 | 1-3/16 | 1-1/2 | 2-1/4 | 2-15/16 |
| W10x49 | 0.83 | 3/4 | 1-1/16 | 1-3/8 | 2-1/16 | 2-3/4 |
| W14x233 | 2.49 | 5/16 | 1/2 | 11/16 | 1-3/16 | 1-5/8 |
| W14x730 | 6.62 | 5/16 | 5/16 | 5/16 | 9/16 | 3/4 |

**As an alternate to the equation, the min thickness of Spray-Applied Fire Resistive Materials Types Z-146, Z-146PC, Z-146T, Z-156, Z-156T and Z-156PC required for various fire resistance ratings of contours sprayed or boxed wide flange columns are shown in the table below:**

| Column | Min Thkns In. | | | | |
|---|---|---|---|---|---|
| Size In. | 1 Hr | 1-1/2 Hr | 2 Hr | 3 Hr | 4 Hr |
| W6x9 | 1-1/16 | 1-7/16 | 1-1/2 | 2-1/4 | 3 |
| W6x12 | 1 | 1-3/8 | 1-1/2 | 2-1/4 | 3 |
| W6x16 | 13/16 | 1-1/4 | 1-1/2 | 2-1/4 | 2-15/16 |
| W8x28 | 3/4 | 1-3/16 | 1-3/8 | 2 | 2-1/2 |
| W10x49 | 11/16 | 7/8 | 1-1/8 | 1-9/16 | 1-15/16 |
| W21x73 | 11/16 | 7/8 | 1-1/8 | 1-9/16 | 1-15/16 |
| W12x106 | 9/16 | 7/8 | 1-1/8 | 1-9/16 | 1-15/16 |
| W14x233 | 5/16 | 1/2 | 9/16 | 7/8 | 1-1/4 |
| W14x730 | 5/16 | 5/16 | 5/16 | 3/8 | 9/16 |

**ARABIAN VERMICULITE INDUSTRIES — Types MK-5, MK-6/CBF, MK-6/ED, MK-6/HY, MK-6/HY Extended Set, MK-6s, Sonophone 1, Sonophone 5, Z-106, Z-106/G.**

**W R GRACE & CO - CONN — Types MK-4, MK-5, MK-6/HY, MK-6/HY Extended Set, MK-6s, RG, Monokote Acoustic 1, Monokote Acoustic 5, Z-106, Z-106/G, Z-146, Z-146PC, Z-146T, Z-156, Z-156T and Z-156PC (Types Z-146, Z-146PC, Z-146T, Z-156, Z-156PC, Z-156T also investigated for exterior use).**

**GRACE KOREA INC — Types MK-6/CBF, MK-6/ED, MK-6/HY, MK-6/HY Extended Set, MK-6s, Monokote Acoustic 1, Monokote Acoustic 5, Z-106, Z-106/G.**

**PYROK INC — Type LD.**

**SOUTHWEST FIREPROOFING PRODUCTS CO — Types 4, 5, 5EF, 5GP, 5MD, 7GP, 7HD, 8EF, 8GP, 8MD, 9EF, 9GP, 9MD.**

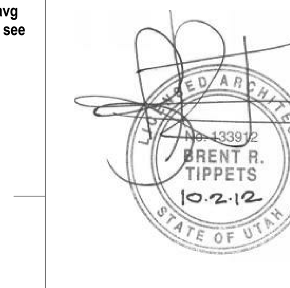
**VERMICULITE PRODUCTS INC — Type MK-4 or MK-5.**

**2. Metal Lath — (Optional for contour application) — 3.4 lb/sq yd galvanized or painted expanded steel lath. Lath shall be lapped 1 in. and tied together with No. 18 SWG galvanized steel; wire spaced vertically 6 in. O.C.**

**3. Steel Column — Wide flange steel column, min/max sizes as specified above.**

***Bearing the UL Classification Mark** — **Last Updated on 2008-10-22**

ARCHITECTURE
VALENTINER
CRANE
BRUNJES
ONYON





VCBO ARCHITECTURE
524 SOUTH 600 EAST
SALT LAKE CITY, UT 84102
Phone: (801) 575-8800
Fax: (801) 531-9850
WWW: www.vcbo.com


DFCM CODE COMPLIANCE STAMP

Student Activity Center
Stromberg Addition - BID SET
Weber State University
3750 Harrison Blvd. Ogden, UT 84408

Rev # | Date | Description

Job # 12475
CAD File
Drawn Author Checked Checker
Date 10.03.2012
Owner # DFCM #12031810

UL RATED COLUMN AND BEAM ASSEMBLIES

G201

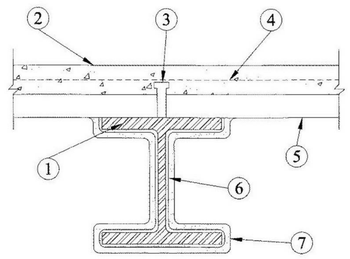
10/3/2012 1:14:43 PM

# Design No. N608

Design No. N608

**Restrained Beam Ratings—1, 1-1/2, 2, 3, 4 Hr (See Item 7)**

**Unrestrained Beam Ratings—1, 1-1/2, 2, 3, 4 Hr (See Item 7)**




1. **Steel Beam —** W10x88 min size.
2. **Normal Weight or Lightweight Concrete —** Compressive strength, 3000 psi. For normal weight concrete either carbonate or siliceous aggregate may be used. Unit weight, 148 pcf. For lightweight concrete, unit weight 110 pcf.
3. **Shear Connector (Optional) —** Studs, 3/4 in. diam headed type or equivalent per AISC specifications. Welded to the top flange of beam through the steel floor units.
4. **Welded Wire Fabric (Optional) —** 6 x 6-10/10 SWG.
5. **Steel Floor and Form Units —** 1-1/2, 2, or 3 in. deep fluted, welded to beam.
6. **Glass Fiber Mesh —** 3/16 in. by 3/16 in, square pattern glass fiber reinforcing mesh weighing 5.3 oz per sq. yard shall be placed, following the contour of the beam, in the following manner:

| Thkns of Protection Material (in.) | Depth of Placement of Reinforcing Mesh (in.) |
|---|---|
| .12 - .24 | Mid point of Protection Material |
| .24 and greater | .12 |

Adjacent pieces of reinforcing mesh along the length of the beam shall be overlapped a min of 2 in.

7. **Mastic Coating* —** Two component spray material applied in more than one coat as described in the manufacturer's application instructions to the thickness shown below. Beams to be primed with an epoxy primer. Flutes above beam to be completely filled with mineral wool insulation having a min density of 6 pcf.

| Rating, Hr | Min Thkns, In. Unrestrained Beams | Restrained Beams |
|---|---|---|
| 1 | .12 | .12 |
| 1-1/2 | .12 | .12 |
| 2 | .13 | .12 |
| 3 | .30 | .23 |
| 4 | .47 | .39 |

**CARBOLINE CO** — Types Thermo-Lag 3000-SP, Thermo-Lag 3000-P, Thermo-Lag 3000-SA, Thermo-Lag 3000-A and Thermo-Lag 3000-FC subliming mastic coatings.

8. **Top Coat —** Type Carboguard 1340 intermediate coat applied over mastic coating at 0.002 in. thickness and Type Carbothane 133HB topcoat or Carbothane 133MC top-coat applied over intermediate coat at 0.003 in. thickness.
8A. **Top Coat —** As an alternate to Item 4, Type Carboguard 889 or Type Carbomastic 94 topcoat applied over mastic coating (Item 2) at 0.010 in. thickness.

*Bearing the UL Classification Mark

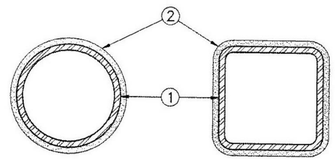
Last Updated on 2009-07-28

# Design No. X642 Ratings - 3/4, 1, 1 1/2, AND 2 HR (SEE ITEM 2)

Design No. X642

**Design No. X642**
February 18, 2010

**Ratings - 3/4, 1, 1-1/2 and 2 Hr (See Item 2)**




1. **Steel Column —** Square, rectangular or circular tubular steel columns with the minimum sizes shown in the table below. Steel columns shall be free of dirt, loose scale and oil. Column shall be primed with metal alkyd primer.
2. **Mastic Coating* —** Coating applied in accordance with manufacturer's instructions to the minimum dry film thickness shown below:

| | | Column | Required Min |
|---|---|---|---|
| Rating, hr | Steel Column Size | A/P | Thickness, In. |
| 3/4 | SP 4 diam x 3/16 in. | 0.18 | 0.102 |
| 3/4 | ST 5 x 3 x 1/4 in. | 0.22 | 0.130 |
| 3/4 | ST 8 x 6 x 5/16 in. | 0.29 | 0.065 |
| 3/4 | ST 10 x 10 x 1/2 in. | 0.46 | 0.035 |
| 1 | ST 5 x 3 x 5/16 in. | 0.27 | 0.130 |
| 1 | ST 12 x 12 x 1/2 in. | 0.47 | 0.045 |
| 1 | SP 10 in. diam x 5/16 in. | 0.30 | 0.111 |
| 1-1/2 | SP 10 in. diam x 5/16 in. | 0.30 | 0.130 |
| 1-1/2 | ST 12 x 12 x 1/2 in. | 0.47 | 0.095 |
| 2 | SP 8 in. diam x 1/2 in. | 0.47 | 0.191 |
| 2 | ST 8 x 8 x 1/2 in. | 0.47 | 0.186 |

**A/D FIRE PROTECTION SYSTEMS INC** — Types "A/D FIREFILM II"or "A/D FIREFILM III" or "A/D FIREFILM III C" investigated for Interior Conditioned Space Purpose and Interior General Purpose.

3. **Top Coat —** (Not shown) — For Interior General Purpose, Type "A/D COLORCOAT", silicone alkyd paint applied at an approximate 0.002 in. dry film thickness. For Interior Conditioned Space Purpose and Interior General Purpose, Type "A/D COLORCOAT" or "Carbocoat 30R", silicone alkyd paint or acrylic paint, Type "Carbocrylic 3350" or Type "Sanilite 155". Top coat applied at an approximate 0.002 in. dry film thickness.

*Bearing the UL Classification Mark

Last Updated on 2010-02-18

# Design No. P701

Design No. P701

**Restrained Assembly Rating — 3/4, 1, 1-1/2 or 2 Hr.**

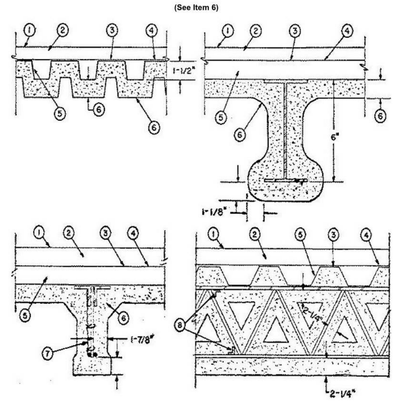
**(See Item 6)**

**Unrestrained Assembly Rating — 3/4, 1, 1-1/2 or 2 Hr.**

**(See Item 6)**

**Unrestrained Beam Rating — 1, 1-1/2 or 2 Hr.**

**(See Item 6)**




**Beam** — W6x16, min size or **Steel Joist** — 12J4, 14J7 or 14K4 min sizes (See Item 6). As alternate to steel beam or steel joists, Joist girders (Not shown)-20 in. min depth and 13 lb/lin ft min weight. As an alternate to steel beam or steel joists, any LH-Series joist may be used.

1. **Roof Covering* —** Consisting of hot mopped or cold application materials compatible with insulation(s) described herein which provide Class A, B or C coverings. See Roofing Materials and Systems Directory-Roof Covering Materials (TEVT).
   1A. **In lieu of Item 1, roof covering consisting of single-ply Roofing Membrane* —** that is either ballasted, adhered or mechanically attached as permitted under the respective manufacturer's Classification. See Fire Resistance Directory-Roofing Membranes (CHCI).
   1B. **Metal Roof Deck Panels (Not shown) —** In addition to or in lieu of Items 1 or 1A, the roof covering may consist of a mechanically fastened metal roof deck panel assembly. See Fire Resistance Directory-Metal Roof Deck Panels (CETW).
2. **Roof Insulation —**
   A) **Mineral and Fiber Boards* —** To be applied in one or more layers with or without adhesive applied between vapor barrier and roof deck units, vapor barrier and board, and each layer of board. When more than one layer is required, each layer of board to be offset in both directions from layer below a min of 6 in. in order to lap all joints. Min thickness is 2 in. when Item 1A or 1B is used. Min thickness is 1 in. otherwise.

**BMCA INSULATION PRODUCTS INC** — Permalite.

**GAF MATERIALS CORP** — GAFTEMP Perlite.

**JOHNS MANVILLE**

**ROXUL INC** — TopRock®MD, MonoBoard™, TopRock®MD Plus, MonoBoard™ Plus, TopRock®DD and TopRock®DD Plus.

**SOPREMA INC** — SopraRock®MD, SopraRock®MD Plus, SopraRock®DD and SopraRock®DD Plus.

B) Or, 5/8 in. **Gypsum Board** (Classified or Unclassified), supplied in 4 ft wide sheets. Installed perpendicular to steel roof deck with end joints staggered a min of 1 ft in adjacent rows and occurring over crests of steel roof deck. May be secured to crests of steel roof deck with **Adhesive*** applied at a rate of 0.4 gal per 100 sq ft.

See **Gypsum Board** (CKNX) category for names of manufacturers.

See **Adhesives** (BYWR) category for names of manufacturers.

a). And, **Foamed Plastic*,** min 1 in. thick, max 2.5 pcf, polystyrene foamed plastic insulation boards secured with asphalt glaze coat, or laid loosely on gypsum wallboard. No max overall thickness. **Note:** Adhesives and/or asphalt glaze coat may be omitted when Item 1 is used. See **Foamed Plastic*** (BRYX) category in Building Materials Directory or **Foamed Plastic*** (CCVW) category in Fire Resistance Directory for list of manufacturers.
b). Or, **Foamed Plastic*,** min. 1 in. thick, may be laid loosely over roof covering or bonded to the single-ply membrane with adhesive or laid into the asphalt glaze coat. When applied in more than one layer, successive layers shall be installed over preceding layer without attachment. Covered with stone or masonry ballast at a min. rate of 10 psf.

**OWENS CORNING SPECIALTY & FOAM PRODUCTS**

c). Or, **Building Units*** — Applied in one or more layers with or without adhesive. When more than one layer is required, the joints of each layer shall be staggered 6 in. (min). Min thickness is 2 in, when Item 1A is used. Min thickness 1-1/2 in. otherwise. Max thickness is 3-1/2 in.

**PITTSBURGH CORNING CORP**

**THE DOW CHEMICAL CO** — Type RM.

d). Or **Foamed Plastic*,** polyisocyanurate foamed plastic insulation boards, nominal 48 by 48 in, applied in one or more layers over the gypsum wallboard. Min thickness is 1.3 in. with no max overall thickness. When applied in more than one layer, each layer to be offset in both directions from layer below a min of 6 in. in order to lap all joints. Adhesive (Item 3 or 3A) may be applied between layers of insulation and to vapor retarder (or gypsum wallboard if vapor retarder is not used).

**ATLAS ROOFING CORP** — ACFoam II, ACFoam III, ACFoam IV.

**CARLISLE SYNTEC INCORPORATED —** Types HP, HP-H, HP-N, HP-W.

**DYPLAST PRODUCTS L L C**

**FIRESTONE BUILDING PRODUCTS CO L L C** — "ISO 95+ GL", "ISO 95+ FK", "ISO 95+ GW", "ISO 300", "ISO 95+ CAN" or "RISISTA".

**GAF MATERIALS CORP** — Isotherm R.

**HUNTER PANELS** — H Shield.

**JOHNS MANVILLE** — ENRGY 3, ISO-1, PSI 25.

**LOADMASTER SYSTEMS INC** — Loadmaster Polyisocyanurate Insulation.

**RMAX OPERATING L L C** — Multi-Max-3, Multi-Max FA-3, Ultra-Max, Tapered Thermaroof-3, Tapered Thermaroof FA-3, Tapered Ultra-Max.

**DOW ROOFING SYSTEMS L L C** — "Dow Termico Polyisocyanurate Insulation", "Dow Termico ISO 3000 Insulation", "Dow Termico ISO HP-FR" .

**GENFLEX ROOFING SYSTEMS L L C** — "GenFlex ISO"

e). Or **Building Units***, Polyisocyanurate foamed plastic insulation boards faced on underside (or both sides) with mineral fiber board. Min thickness of the polyisocyanurate core is 1.3 in. No limit on max overall thickness. Boards

# Design No. P701 (CONT.)

Design No. P701

to be installed with end joints staggered a min of 6 in. in adjacent rows. Adhesive (Item 3) may be applied between the building units and the vapor retarder (or gypsum wallboard if vapor retarder is not used).

**FIRESTONE BUILDING PRODUCTS CO L L C** — "ISO 95+ Composite" .

**JOHNS MANVILLE** — Fesco-Foam.

f). Or **Building Units*** — Polyisocyanurate foamed plastic insulation boards, nom. 48 by 48 or 96 in., faced on the top surface with oriented strand board or plywood. Min. thickness of the polyisocyanurate core is 1.3 in. No limit on max overall thickness. Boards to be installed with end joints staggered a min. of 6 in. in adjacent rows. Adhesive (Item 3) may be applied between the building units and the vapor retarder (or gypsum wallboard if vapor retarder is not used).

**ATLAS ROOFING CORP** — ACFoam NailBase Insulation, Vented-R.

**FIRESTONE BUILDING PRODUCTS CO L L C** — Hailgard.

**JOHNS MANVILLE** — Type Nailboard.

g). or **Building Units***— Polyisocyanurate foamed plastic insulation boards faced on the underside with wood fiber board. Min thickness of the polyisocyanurate core is 1.3 in. No limit on max overall thickness. Boards to be installed with end joints staggered a min of 6 in. in adjacent rows.

**FIRESTONE BUILDING PRODUCTS CO L L C** — "ISO 95 Wood Fiberboard Composite".

**JOHNS MANVILLE** — "ENRGY-2 Plus.

h). or **Building Units*** — Not Shown — Composite polyisocyanurate foamed plastic insulation board with an adhered nailing surface, nom 48 by 48 or 96 in. may be used with the following limitations. These composite building units have ventilation slots internal to the panels. The building units are applied over gypsum wallboard. The thickness of the panel depends upon the thinnest portion of the polyisocyanurate insulation. The following dimensions apply to the polyisocyanurate insulation, min 1.3 in. thick. There is no limit on the max insulation thickness.

**GAF MATERIALS CORP** — Type INSUL-AIR.

**JOHNS MANVILLE** — Type ISO-VENT.

i). or **Building Units*** — Polyisocyanurate foamed plastic insulation boards, nom 48 by 48 or 96 in., faced on the top surface with gypsum board. Min thickness of the polyisocyanurate core is 1.3 in. No limit on overall thickness. Boards to be installed with end joints staggered a min of 6 in. in adjacent rows.

**JOHNS MANVILLE** — ENRGY 2 Gypsum Composite.

j. **Or Mineral and Fiber Boards* —** (Not Shown - Optional) — Applied in one or more layers over Foamed Plastic (item d.) or Building Units* (Items 2B. e, f, g, h, i). 1/2 in. minimum thickness.

**JOHNS MANVILLE** Fesco Board, RetroFit Board, DuraBoard

k. **or Roof Insulation - Foamed Plastic* —** Not Shown - Optional, 1/4 in. thick. Placed over minimum 1-1/2 in. thick polyisocyanurate Foamed Plastic (Item 2. d) may be applied with adhesive (Item 3). Boards to be installed with end joints to be offset in both directions from layer below a min of 6 in. in order to lap all joints.

**JOHNS MANVILLE** Invinsa Roof Board

2A. **Foamed Plastic* —** Optional - (Not Shown) - Maximum 1 in. thick polyisocyanurate foamed plastic insulation boards, nom 48 by 48 or 96 in. Boards may be applied as the top layer in addition to the specified minimum thickness of any roofing system described herein, as long as the roofing system states that there is no limit on maximum thickness. Joints offset in both directions from layer below.

**FIRESTONE BUILDING PRODUCTS CO L L C** — "ISOGARD HD"

3. **Adhesive* —** Optional — May be used with board insulation. Applied in 1/2 in. wide ribbons, approx 6 in. OC at 0.4 gal/100 sq ft
3A. **Adhesive* -(Optional) —** (Bearing the UL Classification Marking for Roof Systems (TGFU)) - The vapor retarder, the gypsum wallboard or the first layer of roof insulation may be secured with adhesive to the steel crest surfaces. Also used to attach the vapor retarder to gypsum wallboard, the first layer of insulation to vapor retarder or gypsum wallboard and each additional layer of insulation. Applied at a max rate of 19.8 g/ft². When FAST 100 adhesive is used, additional **Spray-Applied Fire Resistance Materials* (CHPX)** is required on the deck for the 1-1/2 and 2 hr Unrestrained Assembly Ratings. The thickness specified for the deck shall be increased by 1/16 in. for 1-1/2 hr Unrestrained Assembly Rating and 1/4 in. for 2 hr Unrestrained Assembly Rating.

**CARLISLE SYNTEC INCORPORATED** — FAST 100

4. **Sheathing Material* —** Optional. Vinyl film or paper scrim vapor barrier applied with adhesive or laid loosely on the steel roof deck, overlapped approx 2 in. at sides.
4A. **Sheathing Material* —** (Optional) — A self-adhered rubberized asphalt roofing underlayment membrane which may be placed on top of the gypsum wallboard (Item 2B) or on roof insulation (Item 2 or any nonpolystyrene foamed plastic insulation covered as an alternate to Item 2).

**W R GRACE & CO - CONN** — Grace Ice and Water Shield, Grace Ice and Water Shield-HT®, Grace Select, Grace Ultra, and Grace Basik.

5. **Steel Roof Deck —** (Unclassified) — Min 1-1/2 in. deep, 18 in. wide, galv, fluted steel deck. Flutes 6 in. OC, crest width ranging from 3-1/2 to 5 in. Min gauge is 22 MSG. Ends overlapped at supports min 1-1/2 in. and welded to supports approx 9 in. OC. Adjacent units button-punched or welded together 36 in. OC along side joints; or,

**Classified Steel Floor and Form Units*** — 1-1/2 or 3 in. deep 24, 30 or 36 in. wide, galv steel units. Min gauge is 22 MSG. Spacing of welds attaching units to supports shall not exceed 12 in. OC. Adjacent units button-punched or welded together 36 in. OC along side joints.

**ASC STEEL DECK, DIV OF ASC PROFILES**

**INC** — 24 through 36 in. wide, Types DGB Hi-Form, B Hi-Form, DGB, B, DGN Hi-Form, N Hi-Form, DGN, and N. All units may be galvanized or Prime Shield™.

**CANAM STEEL CORP** — 36 in. wide Type P-3606 and P-3615 noncomposite; 24 in. wide Type P-2436, P-2404, P-2403, and P-2438 noncomposite.

**CONSOLIDATED SYSTEMS INC** — 24 or 30 in. wide Type A; 30 or 36 in. wide Types B, BI, F; 24 in. wide Types N, NI. Units may be ptd/ptd.

**DECK WEST INC** — 36 in. wide Types B-DW, BA-DW; 24 in. wide Type NDW.

**LOADMASTER SYSTEMS INC** — Types PS and SS-300. Type PS may be ptd/ptd.

**MARLYN STEEL DECKS INC** — Types B, F, N, NV

**NEW MILLENNIUM BUILDING SYSTEMS L L C** — 30 in. or 36 in. wide Type B; 24 in. wide Type N. For 1 and 1-1/2 h Assembly and Beam Ratings only, units may be phos/painted or galvanized.

**ROOF DECK INC** — Types A, B-1, B-2 or F.

**CANAM STEEL CORP** — Types B, BI, F, NS and NI. Units may be ptd/ptd.

**VERCO DECKING INC - A NUCOR CO** — Types PLB, B, PLN or N Formlok. Units may be phos./ptd. Types PLB, HSB, PLN or N Formlock. Units may be ptd/ptd.

**VULCRAFT, DIV OF NUCOR CORP** — 24, 30 or 36 in. wide Types 1.5A, 1.5B, 1.5BI, 1.5F; 24 in. wide Types 3N, 3NI. For 1 and 1-1/2 h Assembly and Beam Ratings only, the Types 1.5A, 1.5B, 1.5BI, 1.5F, 3N, 3NI units may be ptd/ptd.

**WHEELING-PITTSBURGH STEEL CORP, DIV**

**OF WHEELING CORRUGATING CO** — Types A, BW, F, High Strength B, High Strength BW or N. Types BW, F, High Strength B, High Strength BW units may be ptd/ptd.

6. **Spray-Applied Fire Resistive Materials* —** Applied by mixing with water and spraying in more than one coat to a final thickness as shown on the above illustration and in the table below, to steel surfaces which must be clean and free of dirt, loose scale and

# Design No. P701 (CONT.)

Design No. P701

oil. Min avg and min ind density of 15/14 pcf respectively. Min avg and min ind density of 19/18 pcf respectively for Type 7GP and 7HD. For method of density determination, refer to Design Information Section.

Note: When metal lath is used on joist, full thickness Spray-Applied Fire Resistive Materials is to be applied over the entire joist, including the lath. For method of density determination, refer to Design Information Section.

| | | | Spray Applied Fire | | | | | |
|---|---|---|---|---|---|---|---|---|
| | | | | | 12J4, 14K4 or LH Joist | | Resistive Mtl Thk In. 14J7 Joist | |
| Restrained Assembly Rating Hr | Unrestrained Assembly Rating Hr | Unrestrained Beam Rating Hr | Deck | Beam | w/ Lath | No. Lath | w/ Lath | No. Lath |
| 1 | 3/4 | 1 | 7/8 | 7/8 | — | — | 1-1/2 | 1-1/2 |
| 1 | 1 | 1 | 1-1/4 | 1-1/8 | 1-3/4 | 1-7/8 | 1-1/2 | 1-1/2 |

When metal lath is required, as indicated below, full thickness Spray-Applied Fire Resistive Materials is to be applied over the entire support including the lath.

| | | | Spray Applied Fire Resistive Mtl Thk In | | | | | |
|---|---|---|---|---|---|---|---|---|
| | | | | | 12J4 or 14K4 Joist | | 14J7 Joist | |
| Restrained Assembly Rating Hr | Un restrained Assembly Rating Hr | Un restrained Beam Rating Hr | Deck# | Beam | w/ Lath | No. Lath | w/ Lath | No. Lath |
| 1-1/2 | 1-1/2 | 1-1/2 | 1-5/8 | 1-3/8 | 1-3/4 | 2-1/8 | — | — |
| 2 | 2 | 2 | 2-1/4 | 1-1/2 | 1-7/8 | 2-3/8 | — | — |

#The required minimum thickness of Spray-Applied Fire Resistive Materials on the steel deck is increased by 1/16 in. for 1-1/2 hr Unrestrained Assembly Rating and 1/4 in. for 2 hr Unrestrained Assembly Rating when Item 3A is used.

| Restrained Assembly Rating Hr | Unrestrained Assembly Rating Hr | Unrestrained Beam Rating Hr | Spray Applied Fire Resistive Mtl Thk In. Joist Girder | |
|---|---|---|---|---|
| | | | w/Lath | No. Lath |
| 1 | 3/4 | 1 | 1-1/2 | 1-1/2 |
| 1 | 1 | 1 | 1-1/2 | 1-1/2 |
| 1-1/2 | 1-1/2 | 1-1/2 | 1-3/4 | 2-1/4 |
| 2 | 2 | 2 | 1-7/8 | 2-3/8 |

**ARABIAN VERMICULITE INDUSTRIES** — Model MK-5.

**W R GRACE & CO - CONN** — Types MK-4, MK-5, MK-6/HY, MK-6s, RG, Monokote Acoustic 1.

**GRACE KOREA INC** — Types MK-6/CBF, MK-6/ED, MK-6/HY, MK-6s, Monokote Acoustic 1.

**PYROK INC** — Type LD.

**SOUTHWEST FIREPROOFING PRODUCTS CO** — Types 4, 5, 5EF, 5GP, 5MD, 7GP, 7HD, 8EF, 8GP, 8MD, 9EF, 9GP, 9MD.

6A. **Alternate Spray-Applied Fire Resistive Materials* —** Applied by mixing with water and spraying in more than one coat to a final thickness as shown on the above illustration and in the table below, to steel surfaces which must be clean and free of dirt, loose scale and oil. Min avg and min ind density of 22/19 pcf respectively. For method of density determination, refer to Design Information Section, Sprayed Materials.

| | | | | | Spray Applied Fire Resistive Mtl Thk In. | | | |
|---|---|---|---|---|---|---|---|---|
| | | | | | 12J4, 14K4 or LH Joist | | 14J7 Joist | |
| Restrained Assembly Rating Hr | Un restrained Assembly Rating Hr | Un restrained Beam Rating Hr | Deck**# | Beam | w/ Lath | No. Lath | w/ Lath | No. Lath |
| 1 | 3/4 | 1 | 7/8 | 7/8 | 1-3/4 | 1-7/8 | 1-1/2 | 1-1/2 |
| 1 | 1 | 1 | 1-1/4 | 1-1/8 | 1-3/4 | 1-7/8 | 1-1/2 | 1-1/2 |
| 1-1/2 | 1-1/2 | 1-1/2+ | 1-5/8 | 1-3/8 | 1-3/4 | 2-1/8 | — | — |
| 2 | 2 | 2 | 1-7/8* | 1-5/8 | 1-7/8 | 2-3/8 | — | — |
| 2 | 2 | 2 | 2-1/4 | 1-5/8 | 1-7/8 | 2-3/8 | — | — |

*Requires the use of 5/8 in. gypsum wallboard (Item 2B).

**Galvanized steel roof units only.

#The required minimum thickness of Spray-Applied Fire Resistive Materials on the steel deck is increased by 1/16 in. for 1-1/2 hr Unrestrained Assembly Rating and 1/4 in. for 2 hr Unrestrained Assembly Rating when Item 3A is used.

**W R GRACE & CO - CONN** — Types Monokote Acoustic 5, Z-106, Z-106/G, Z-106/HY.

**GRACE KOREA INC** — Types Monokote Acoustic 5, Z-106, Z-106/G, Z-106/HY.

7. **Metal Lath —** Where required — The diamond mesh, 3/8 in. expanded steel lath, 1.7 to 3.4 lb/sq yd is secured to one side of each steel joist with No. 18 SWG galv steel wire at joist web and bottom chord members, spaced 15 in. OC max. Where not required, the optional use of metal lath described, fastened as above, may be used to facilitate the spray application of spray-applied resistive material on steel bar joists and trusses. In this application, the metal lath is to be fully covered with spray-applied resistive material with no minimum thickness required.

7A. **Nonmetallic fabric mesh —** (Optional, not shown) — As an alternate to the optional use of metal lath, glass fiber fabric mesh, weighing approximately 2.5 oz/sq yd, polypropylene fabric mesh, weighing approximately 1.25 oz/sq yd or equivalent, may be used to facilitate the spray application. The mesh is secured to one side of each joist web member. The method of attaching the mesh must be sufficient to hold the mesh and the spray-applied spray-applied resistive material in place during application until it has cured. An acceptable method to attach the mesh is by embedding the mesh in minimum 1/4 in. long beads of hot melted glue. The beads of glue shall be spaced a maximum of 1/2 in. OC along the top chord of the bar joist. Another method to secure the mesh is by 1-1/4 in. long by 1/2 in. wide hairpin clips formed from No. 18 SWG or heavier steel wire.

8. **Bridging —** In accordance with Specifications adopted by the Steel Joist Institute and revised to November 15, 1989. Continuous steel angles, min. size 1-1/4 by 1-1/4 by 1/8 in. welded to top and bottom chords. Bridging coated with 2-1/4 in. thickness of Spray-Applied Fire Resistive Materials for the 1 or 1-1/2 h Assembly and Beam Ratings and 2-7/16 in. for the 2 h Assembly and Beam Ratings.

9. **Metal Lath —** (Not Shown) — Where Type 7HD is applied to steel deck, 3/8 in. metal ribbed lath weighing 3.4 lb/yd² shall be secured to the underside of the steel deck (ribs upward) with S-12 by 3/8 in. long pan head, self-tapping steel screws spaced 12 in. OC in all directions. Steel screws shall be fitted with 1/2 in. diameter steel washers. Adjacent pieces of lath shall be overlapped 1 in. min.

*Bearing the UL Classification Mark

Last Updated on 2010-09-21


VCBO
ARCHITECTURE
VALENTINER
CRANE
BRUNJES
ONYON

REGISTERED ARCHITECT
STATE OF UTAH
5339
BRENT R. TIPPETS
10-2-12

VCBO ARCHITECTURE
524 SOUTH 600 EAST
SALT LAKE CITY, UT 84102
Phone: (801) 575-8800
Fax: (801) 531-9850
WWW: www.vcbo.com


DFCM CODE COMPLIANCE STAMP

# Student Activity Center
## Stromberg Addition - BID SET
Weber State University
3750 Harrison Blvd. Ogden, UT 84408

Rev # | Date | Description

Job # 12475
CAD File
Drawn Author Checked Checker
Date 10.03.2012
Owner # DFCM #12031810

UL RATED COLUMN AND BEAM ASSEMBLIES

G202

10/3/2012 1:14:47 PM

## SYSTEM NO. F-A-8020

**Through-penetration Firestop Systems**

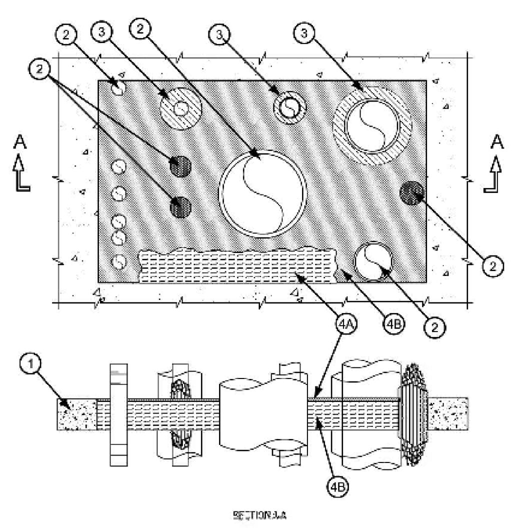
See General Information for Through-penetration Firestop Systems

**System No. F-A-8012**

June 29, 2004

**F Rating — 2 Hr**

**T Rating — 0 Hr**



SECTION A-A

1. **Floor Assembly** — Min 4-1/2 in. (114 mm) thick reinforced lightweight or normal weight (100-150 pcf or 1600-2400 kg/m$^3$) concrete. Max size of opening is 1440 in.2 (9,290 cm$^2$) with a max dimension of 48 in. (1219 mm).

2. **Through-Penetrants** — One or more pipes, tubes or cable bundles to be installed within the opening. The total number of through-penetrants is dependent on the size of the opening and types and sizes of the penetrants. Any combination of the penetrants described below may be used provided that the following parameters relative to the annular spaces are maintained. The annular space between cable bundles and other penetrants shall be a min 6 in. (152 mm). The annular space between metallic pipes, conduit and tubes and insulated pipes and tubes shall be a min 2 in. (51 mm). The annular space between nom 2 in. (51 mm) diam (and smaller) metallic pipes, conduit and tubes shall be a min 0 in. (0 mm). The annular space between insulated penetrants and the periphery of opening shall be a min 1/2 in. (13 mm). The annular space between all other penetrants and the periphery of opening shall be a min 0 in. (0 mm) (point contact). A max annular space in the system shall be 12 in. (305 mm). Penetrants to be rigidly supported on both sides of floor assembly. The following types and sizes of penetrants may be used.

A. **Metallic Penetrants** — The following types of metallic pipes, tubes or conduits may be used:

1. **Copper Tubing** — Nom 6 in. (152 mm) diam (or smaller) Type L (or heavier) copper tube.

2. **Copper Pipe** — Nom 6 in. (152 mm) diam (or smaller) Regular (or heavier) copper pipe.

3. **Steel Pipe** — Nom 24 in. (610 mm) diam (or smaller) Schedule 40 (or heavier) steel pipe.

4. **Iron Pipe** — Nom 24 in. (610 mm) diam (or smaller) cast or ductile iron pipe.

5. **Conduit** — Nom 4 in. (102 mm) diam (or smaller) steel electric metallic tubing (EMT) or nom 6 in. (152 mm) diam (or smaller) rigid steel conduit.

B. **Cables Bundles** — Max 4 in. (102 mm) diam tightly bundled cables. Any combination of the following types and sizes of cables may be used:

1. Max 500 kcmil single copper or aluminum conductor power cable with thermoplastic insulation and polyvinyl chloride (PVC) jacket.

2. Max 300 pair No. 24 AWG copper conductor telecommunication cables with PVC insulation and jacket material.

3. Max 7/C copper conductor No. 12 AWG multi-conductor power and control cables with PVC or cross-linked polyethylene (XLPE) insulation and PVC jacket.

4. Multiple fiber optical communication cables jacketed with PVC and having a max outside diam of 1/2 in.

5. Max 3/C No. 12 AWG steel clad cable with copper conductors and PVC insulation material.

C. **Individual Cables** — Any of the following types and sizes of individual (non-bundled) cables may be used:

1. Max 3/C No. 2/0 AWG (or smaller) copper conductor PVC jacketed aluminum clad or steel clad TECK 90 cable.

2. **Through Penetrating Product*** — Any cables, **Armored Cable+** or **Metal Clad Cable+** currently Classified under the **Through Penetrating Product** category.

See **Through Penetrating Product** (XHLY) category in the Fire Resistance Directory for names of manufacturers.

3. Max 500 kcmil single copper or aluminum conductor power cable with thermoplastic insulation and polyvinyl chloride (PVC) jacket.

4. Max 300 pair No. 24 AWG copper conductor telecommunication cables with PVC insulation and jacket material.

5. Max 7/C copper conductor No. 12 AWG multi-conductor power and control cables with PVC or cross-linked polyethylene (XLPE) insulation and PVC jacket.

6. Multiple fiber optical communication cables jacketed with PVC and having a max outside diam of 1/2 in.

7. Max 3/C No. 12 AWG steel clad cable with copper conductors and PVC insulation material.

8. Max 4C/750 kcmil (or smaller) aluminum or copper conductor metal clad cable with aluminum or steel armor, with or without PVC jacket.

3. **Pipe Insulation** — (Optional) - Pipes and tubes of the sizes noted below may be provided with one of the following types of pipe insulations:

A. **Pipe Covering*** — Nom 1-1/2 in. (38 mm) thick (or thinner) hollow cylindrical heavy density glass fiber units jacketed on the outside with an all service jacket for pipes with a nom diam of 8 in. (203 mm) (or smaller) or tubes with a nom diam of 4 in. (102 mm) (or smaller). Longitudinal joints sealed with metal fasteners or factory-applied self-sealing lap tape. Transverse joints secured with metal fasteners or with butt tape supplied with the product.

See **Pipe and Equipment Covering - Materials** (BRGU) category in the Building Materials Directory for names of manufacturers. Any pipe covering material meeting the above specifications and bearing the UL Classifica tion Marking with a Flame Spread Index of 25 or less and a Smoke Developed Index of 50 or less may be used.

B. **Tube Insulation-Plastics+** — Nom 1 in. (25 mm) thick (or thinner) acrylonitrile butadiene/polyvinyl chloride (AB/PVC) flexible foam furnished in the form of tubing for pipes or tubes with a nom diam of 2 in. (51 mm) (or smaller).

See **Plastics** (QMFZ2) category in the Plastics Recognized Component Directory for names of manufacturers. Any Recognized Component tube insulation material meeting the above specifications and having a UL 94 Flammability Classification of 94-5VA may be used.

4. **Firestop System** — The firestop system shall consist of the following:

A. **Packing Material** — Min 4 in. (102 mm) thickness of 4 pcf (64 kg/m$^3$) mineral wool batt insulation tightly packed into the opening as a permanent form. Packing material to be recessed from top surface of floor to accommodate the required thickness of fill material.

B. **Fill, Void or Cavity Material - Sealant*** — Min 1/2 in. (13 mm) thickness of fill material applied within the annulus flush with the top surface of the floor.

**HILTI CONSTRUCTION CHEMICALS, DIV OF**

**HILTI INC** — CP604 Sealant

*Bearing the UL Classification Mark

Last Updated on 2004-06-29

## SYSTEM NO. W-L-8065

**Through-penetration Firestop Systems**

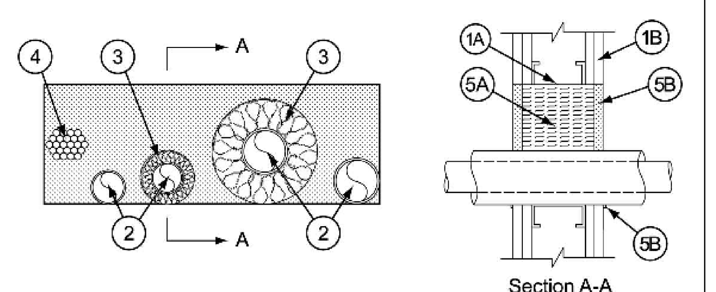
See General Information for Through-penetration Firestop Systems

**System No. W-L-8065**

October 08, 2007

**F Ratings — 1 and 2 Hr (See Item 1)**

**T Rating — 0 Hr**



Section A-A

1. **Wall Assembly** — The 1 or 2 hr fire-rated gypsum board/stud wall assembly shall be constructed of the materials and in the manner specified in the individual U300, U400 or V400 Series Wall and Partition Designs in the UL Fire Resistance Directory and shall include the following construction features:

A. **Studs** — Wall framing may consist of either wood studs or channel shaped steel studs. Wood studs to consist of nom 2 by 4 in. (51 by 102 mm) lumber spaced max 16 in. (406 mm) OC. Steel studs to be min 3-1/2 in. (89 mm) wide and spaced max 24 in. (610 mm) OC. Additional framing members shall be installed in stud cavity containing through-penetrating item to form a rectangular box around the penetrants.

B. **Gypsum Board*** — 5/8 in. (16 mm) thick with square or tapered edges. The gypsum board type, thickness, number of layers, fastener type and sheet orientation shall be as specified in the individual U300, U400 or V400 Wall and Partition Design. If the through penetrants are installed in a wood stud/gypsum board assembly, the max area of opening is 116 in.2 (748 cm$^2$). with max dimension of 14-1/2 in. (368 mm). If the through penetrants are installed in a steel stud/gypsum board assembly, max area of opening is 182 in2. (1174 cm$^2$) with max dimension of 22-3/4 in. (578 mm) wide.

**The hourly F Rating of the firestop system is equal to the hourly fire rating of the wall assembly in which it is installed.**

2. **Through-Penetrant** — One or more pipes, conduit or tubes to be installed within the opening. The total number of through-penetrants is dependent on the size of the opening and the types and sizes of the penetrants. Any combination of the penetrants described below may be used provided that the following parameters relative to the annular spaces and the spacing between the through penetrants are maintained. The separation between the penetrants shall be min 1 in. (25 mm) to max 22 in. (560 mm). The annular space between penetrants and the periphery of opening shall be min 0 in. (0 mm, point contact) to max 22 in. (560 mm). Pipes, conduit or tubes to be rigidly supported on both sides of wall assembly. The following types and sizes of pipes, conduit or tubes may be used.

A. **Copper Tubing** — Nom 3 in. (76 mm) diam (or smaller) Type L (or heavier) copper tube.

B. **Copper Pipe** — Nom 3 in. (76 mm) diam (or smaller) Regular (or heavier) copper pipe.

C. **Steel Pipe** — Nom 3 in. (76 mm) diam (or smaller) Schedule 10 (or heavier) steel pipe.

D. **Iron Pipe** — Nom 3 in. (76 mm) diam (or smaller) cast or ductile iron pipe.

E. **Conduit** — Nom 3 in. (76 mm) diam (or smaller) electric metallic tubing (EMT) or rigid steel conduit.

F. **Polyvinyl Chloride (PVC) Pipe** — Nom 2 in. (51 mm) diam (or smaller) Schedule 40 cellular or solid core PVC pipe for use in closed (process or supply) or vented (drain, waste, or vent) piping systems.

G. **Chlorinated Polyvinyl Chloride (CPVC) Pipe** — Nom 2 in. (51 mm) diam (or smaller) SDR 13.5 CPVC pipe for use in closed (process or supply) piping systems.

H. **Rigid Nonmetallic Conduit (RNC)+** — Nom 2 in. (51 mm) diam (or smaller) Schedule 40 PVC conduit installed in accordance with Articles 347 and 710 of the National Electrical Code (NFPA No. 70).

I. **Cross Linked Polyethylene Tubing** — Nom 1 in. (25 mm) diam (or smaller) cross-linked polyethylene tubing for use in closed (process or supply) piping systems.

3. **Pipe Insulation** — One or more metallic penetrants (pipe or tubing) may be insulated with the following types of pipe coverings:

A. **Pipe Covering*** — Min 1 in. (25 mm) to max 2 in. (51 mm) thick hollow cylindrical heavy density min 3.5 pcf (56 kg/m$^3$) glass fiber units jacketed on the outside with an all service jacket. Longitudinal joints sealed with metal fasteners or factory-applied self-sealing lap tape. Transverse joints secured with metal fasteners or with butt tape supplied with the product.

See **Pipe and Equipment Covering - Materials** (BRGU) category in the Building Materials Directory for names of manufacturers. Any pipe covering material meeting the above specifications and bearing the UL Classification Marking with a Flame Spread Index of 25 or less and a Smoke Developed Index of 50 or less may be used.

B. **Tube Insulation-Plastics+** — Min 1/2 in. (13 mm) to max 3/4 in. (19 mm) thick acrylonitrile butadiene/polyvinyl chloride (AB/PVC) flexible foam furnished in the form of tubing.

See **Plastics+** (QMFZ2) category in the Plastics Recognized Component Directory for names of manufacturers. Any Recognized Component tube insulation material meeting the above specifications and having a UL 94 Flammability Classification of 94-5VA may be used.

C. **Pipe Covering Materials*** — Min 1 in. (25 mm) to max 2 in. (51 mm) thick unfaced mineral fiber pipe insulation having a nom density of 3.5 pcf (56 kg/m$^3$) or heavier and sized to fit the outside diam of pipe or tube. Pipe insulation secured with min 18 SWG steel wire spaced 12 in. (305 mm) OC.

**IIG MINWOOL L L C** — High Temperature Pipe Insulation 1200, High Temperature Pipe Insulation BWT and High Temperature Pipe Insulation Thermaloc

C1. **Sheathing Material** — (Not shown) — Optional, used in conjunction with Item 3C. Foil-scrim-kraft or all service jacket material shall be wrapped around the outer circumference of the pipe covering material (Item 3B) with the kraft side exposed. Longitudinal joints sealed with metal fasteners.

See **Sheathing Materials** (BVDV) category in the Building Materials Directory for names of manufacturers. Any sheathing material meeting the above specifications and bearing the UL Classification Marking with a Flame Spread value of 25 or less and a Smoke Developed value of 50 or less may be used.

The annular space between the insulated penetrants and the periphery of the opening shall be min 0 in. (0 mm, point contact) to max 5 in. (127 mm). The separation between the insulated penetrants and the other penetrants shall be a min 1 in. (25 mm) to max 22 in. (560 mm).

4. **Cables** — One max 3 in. (76 mm) diam bundle of cables installed within the opening and rigidly supported on both surfaces of wall. The annular space between the tightly-bundled cables and the periphery of the opening shall be min 0 in. (0 mm, point contact) to max 5 in. (127 mm). The separation between the cable bundle and the other penetrants shall be min 1 in. (25 mm) to max 22 in. (560 mm). Any combination of the following types and sizes of cables may be used:

A. Max 25 pair No. 24 AWG telephone cable with polyvinyl chloride (PVC) insulation and jacket.

B. Max 7/C No. 12 AWG copper conductor power and control cable with PVC or cross-linked polyethylene (XLPE) insulation and PVC jacket.

C. Multiple fiber optical communication cable jacketed with PVC and having a max outside diam of 1/2 in. (13 mm).

D. Max 3/C No. 8 AWG with bare aluminum ground, PVC insulated steel Metal-Clad+ Cable currently Classified under the **Through Penetrating Product*** (XHLY) category.

E. Max 3/C (with ground) No. 12 AWG (or smaller) nonmetallic sheathed (Romex) cable with PVC insulation and jacket materials.

F. RG/U coaxial cable with polyethylene (PE) insulation and polyvinyl chloride (PVC) jacket having a max outside diam of 1/2 in. (13 mm).

5. **Firestop System** — The firestop system shall consist of the following:

A. **Packing Material** — In 2 hr fire rated wall assemblies, min 4-3/4 in. (121 mm) thickness of min 4 pcf (64 kg/m$^3$) mineral wool batt insulation firmly packed into opening as a permanent form. In 1 hr fire rated wall assemblies, min 3-1/2 in. (89 mm) thickness of min 4 pcf (64 kg/m$^3$) mineral wool batt insulation firmly packed into opening as a permanent form. Packing material recessed from both surfaces of the wall to accommodate the required thickness of fill material.

B. **Fill, Void or Cavity Material* — Sealant** — Min 5/8 in. (16 mm) thickness of fill material applied within annulus, flush with both surfaces of wall. At the point contact location between through penetrants and gypsum board, a min 1/4 in. (6 mm) diam bead of fill material shall be applied at the gypsum board/through penetrant interface on both surfaces of wall.

**HILTI CONSTRUCTION CHEMICALS, DIV OF**

**HILTI INC** — FS-ONE Sealant

*Bearing the UL Classification Mark

+ Bearing the UL Listing Mark

# Bearing the UL Recognized Component Mark

Last Updated on 2007-10-08

## SYSTEM NO. W-L-5029

**Through-penetration Firestop Systems**

See General Information for Through-penetration Firestop Systems

**System No. W-L-5029**

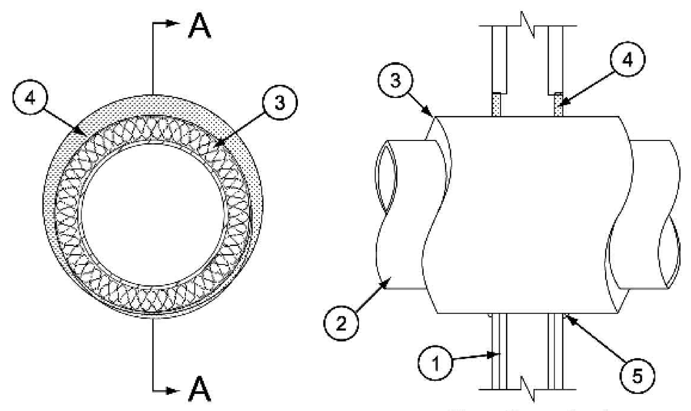
February 08, 2006

**F Ratings — 1 and 2 Hr (See Item 1)**

**T Ratings — 1/2, 3/4, 1, 1-1/2 and 1-3/4 Hr (See Item 3)**

**L Rating At Ambient — 4 CFM/Sq Ft**

**L Rating At 400 F — Less Than 1 CFM/Sq Ft**



Section A-A

1. **Wall Assembly** — The 1 or 2 hr fire-rated gypsum board/stud wall assembly shall be constructed of the materials and in the manner specified in the individual U300 or U400 Series Wall and Partition Designs in the UL Fire Resistance Directory and shall include the following construction features:

A. **Studs** — Wall framing may consist of either wood studs or steel channel studs. Wood studs to consist of nom 2 by 4 in. lumber spaced 16 in. OC. Steel studs to be min 2-1/2 in. wide and spaced max 24 in. OC.

B. **Gypsum Board*** — 5/8 in. thick, 4 ft wide, with square or tapered edges. The gypsum board type, thickness, number of layers, fastener type and sheet orientation shall be as specified in the individual Wall and Partition Design. Max diam of opening is 18-5/8 in.

**The hourly F Rating of the firestop system is equal to the hourly fire rating of the wall assembly in which it is installed.**

2. **Through Penetrants** — One metallic pipe or tubing to be centered within the firestop system. Pipe or tubing to be rigidly supported on both sides of wall assembly. The following types and sizes of metallic pipes or tubing may be used:

A. **Steel Pipe** — Nom 12 in. diam (or smaller) Schedule 10 (or heavier) steel pipe.

B. **Iron Pipe** — Nom 12 in. diam (or smaller) cast or ductile iron pipe.

C. **Copper Tubing** — Nom 6 in. diam (or smaller) Type L (or heavier) copper tubing.

D. **Copper Pipe** — Nom 6 in. diam (or smaller) Regular (or heavier) copper pipe.

3. **Pipe Covering*** — Nom 1, 1-1/2 or 2 in. thick hollow cylindrical heavy density (min 3.5 pcf) glass fiber units jacketed on the outside with an all service jacket. Longitudinal joints sealed with metal fasteners or factory-applied self-sealing lap tape. Transverse joints secured with metal fasteners or with butt tape supplied with the product.

See **Pipe and Equipment Covering — Materials** (BRGU) category in the Building Material Directory for the names of manufacturers. Any pipe covering material meeting the above specifications and bearing the UL Classification Marking with a Flame Spread Index of 25 or less and a Smoke Developed Index of 50 or less may be used.

The hourly T Rating of the firestop system is dependent on the hourly fire rating of the wall assembly in which it is installed, the size and type of through penetrant and the pipe covering thickness, as shown in the table below:

| Wall Assembly Rating Hr | Through Penetrant Type + | Through Penetrant Max Diam In. | Pipe Covering Thkns In. | Annular Space Min In. | Annular Space Max In. | T Rating Hr |
|---|---|---|---|---|---|---|
| 1 | A, B | 4 | 1 | 0 | 1-1/2 | 1/2 |
| 1 | C or D | 2 | 1 or 1-1/2 | 0 | 1-1/2 | 1/2 |
| 1 | A, B | 4 | 1-1/2 | 0 | 1-1/2 | 1 |
| 1 | A, B | 12 | 2 | 0 | 1-7/8 | 3/4 |
| 1 | C or D | 6 | 2 | 0 | 1-7/8 | 1 |
| 2 | A, B | 4 | 1 | 0 | 1-1/2 | 1 |
| 2 | C or D | 4 | 1 or 1-1/2 | 0 | 1-1/2 | 1 |
| 2 | C or D | 6 | 2 | 0 | 1-7/8 | 1 |
| 2 | A, B | 4 | 1-1/2 | 0 | 1-1/2 | 1-3/4 |
| 2 | A, B | 12 | 2 | 0 | 1-7/8 | 1-1/2 |
| 2 | C or D | 6 | 2 | 0 | 1-7/8 | 1 |

+Indicates penetrant type as itemized in Item 2.

3A. **Pipe Covering*** — (Not Shown) — As an alternate to Item 3, max 2 in. thick cylindrical calcium silicate (min 14 pcf) units sized to the outside diam of the pipe or tube may be used. Pipe insulation secured with stainless steel bands or min 8 AWG stainless steel wire spaced max 12 in. OC. When the alternate pipe covering is used, the T Rating shall be determined from the table above.

See **Pipe and Equipment Covering — Materials** (BRGU) category in the Building Materials Directory for names of manufacturers. Any pipe covering material meeting the above specifications and bearing the UL Classification Marking with a Flame Spread Index of 25 or less and a Smoke Developed Index of 50 or less may be used.

4. **Fill, Void or Cavity Material* — Sealant** — Min 5/8 in. thickness of fill material applied within the annulus, flush with both surfaces of wall . At the point contact location between pipe covering and gypsum board, a min 1/2 in. diam bead of fill material shall be applied at the pipe covering/gypsum board interface on both surfaces of wall.

**HILTI CONSTRUCTION CHEMICALS, DIV OF**

**HILTI INC** — FS-One Sealant

*Bearing the UL Classification Mark

Last Updated on 2006-02-08

## SYSTEM NO. W-L-5240

**Through-penetration Firestop Systems**

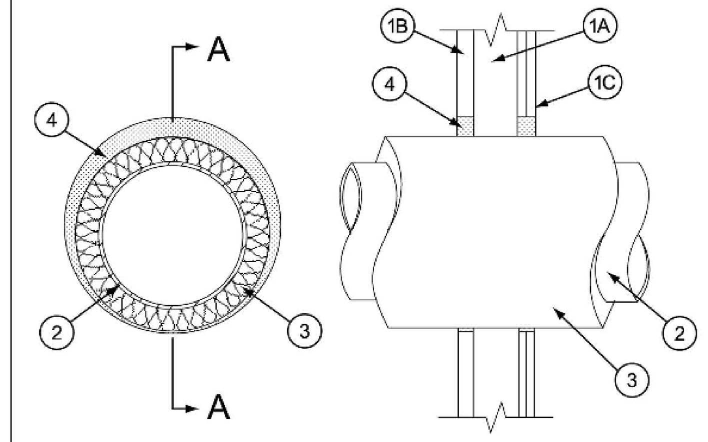
See General Information for Through-penetration Firestop Systems

**System No. W-L-5240**

February 16, 2005

**F Rating — 2 Hr**

**T Rating — 0 and 1-1/4 Hr (See Item 3)**



Section A-A

1. **Wall Assembly** — The 2 hr fire-rated gypsum board/stud shaft wall assembly shall be constructed of the materials and in the manner specified in the individual U400 or V400 Series Wall and Partition Designs in the UL Fire Resistance Directory and shall incorporate the following construction features:

A. **Steel Studs** — "C-H" or "C-T" shaped studs, min 2-1/2 in. wide by 1-1/2 in. deep, fabricated from min No. 25 gauge galv steel, spaced max 24 in. OC.

B. **Gypsum Board*** — 1 in. thick, 24 in. wide gypsum liner panels installed vertically. Max diam of circular cutout in gypsum liner panel is 13 in.

C. **Gypsum Board*** — 1/2 in. or 5/8 in. thick, 48 in. wide gypsum boards. The gypsum board type, thickness, number of layers, fastener type and sheet orientation shall be as specified in the individual Wall and Partition Design. Max diam of circular cutout in gypsum board is 13 in.

2. **Through-Penetrants** — One metallic pipe, conduit or tubing to be installed either concentrically or eccentrically within the firestop system. Pipe, conduit or tubing to be rigidly supported on both sides of wall assembly. The following types and sizes of metallic pipes, conduits or tubing may be used:

A. **Steel Pipe** — Nom 8 in diam (or smaller) Schedule 10 (or heavier) steel pipe.

B. **Iron Pipe** — Nom 8 in. diam (or smaller) cast or ductile iron pipe.

C. **Copper Tubing** — Nom 4 in. diam (or smaller) Type L (or heavier) copper tubing.

D. **Copper Pipe** — Nom 4 in. diam (or smaller) regular (or heavier) copper pipe.

3. **Pipe Covering*** — Nom 1 or 1-1/2 in. thick hollow cylindrical heavy density (min. 3.5 pcf) glass fiber units, jacketed on the outside with an all service jacket. Longitudinal joints sealed with metal fasteners or factory-applied SSL tape. Transverse joints secured with metal fasteners or with butt tape supplied with the product. The annular space between the insulated pipe and the periphery of the opening shall be min 1/4 in. to max 1-1/8 in. When 1 in. thick insulation is used, T Rating is 1/2 hr. When 1-1/2 in. insulation is used, T Rating is 1-1/4 hr.

See **Pipe and Equipment Covering — Materials** (BRGU) category in the Building Materials Directory for names of manufacturers. Any pipe covering material meeting the above specifications and bearing the UL Classification Marking with a Flame Spread Index of 25 or less and a Smoke Developed Index of 50 or less may be used.

4. **Fill, Void or Cavity Material* — Sealant** — Min 1 in. thickness of fill material applied within the annulus, flush with each surface of wall.

**HILTI CONSTRUCTION CHEMICALS, DIV OF**

**HILTI INC** — FS-One Sealant

*Bearing the UL Classification Mark

Last Updated on 2005-02-16

## SYSTEM NO. W-L-1380

**Through-penetration Firestop Systems**

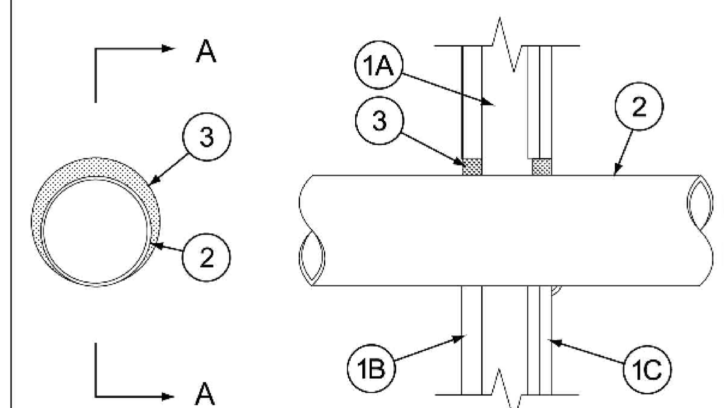
See General Information for Through-penetration Firestop Systems

**System No. W-L-1380**

October 07, 2005

**F Rating — 2 Hr**

**T Rating — 0 Hr**



Section A-A

1. **Wall Assembly** — The 2 hr fire-rated gypsum board/stud shaft wall assembly shall be constructed of the materials and in the manner specified in the individual U400 or V400 Series Wall and Partition Designs in the UL Fire Resistance Directory and shall incorporate the following construction features:

A. **Steel Studs** — "C-H" or "C-T" shaped studs, min 2-1/2 in. wide by 1-1/2 in. deep, fabricated from min No. 25 gauge galv steel, spaced max 24 in. OC.

B. **Gypsum Board*** — 1 in. thick, 24 in. wide gypsum liner panels installed vertically. Max diam of circular cutout in gypsum liner panel is 9-1/2 in.

C. **Gypsum Board*** — 1/2 in. or 5/8 in. thick, 48 in. wide gypsum boards. The gypsum board type, thickness, number of layers, fastener type and sheet orientation shall be as specified in the individual Wall and Partition Design. Max diam of circular cutout in gypsum board is 9-1/2 in.

2. **Through-Penetrants** — One metallic pipe, conduit or tubing to be installed either concentrically or eccentrically within the firestop system. The annular space shall be min 0 in. (point contact) to max 7/8 in. Pipe, conduit or tubing to be rigidly supported on both sides of wall assembly. The following types and sizes of metallic pipes, conduits or tubing may be used:

A. **Steel Pipe** — Nom 8 in diam (or smaller) Schedule 10 (or heavier) steel pipe.

B. **Iron Pipe** — Nom 8 in. diam (or smaller) cast or ductile iron pipe.

C. **Conduit** — Nom 4 in diam (or smaller) steel electrical metallic tubing or 6 in. diam steel conduit.

D. **Copper Tubing** — Nom 6 in. diam (or smaller) Type L (or heavier) copper tubing.

E. **Copper Pipe** — Nom 6 in. diam (or smaller) regular (or heavier) copper pipe.

3. **Fill, Void or Cavity Material* - Sealant** — Min 1 in. thickness of fill material applied within the annulus, flush with each surface of wall. A min 1/2 in. diam bead of fill material shall be applied at the point contact location between pipe and wall on the finished side of wall.

**HILTI CONSTRUCTION CHEMICALS, DIV OF**

**HILTI INC** — FS-One Sealant

*Bearing the UL Classification Mark

Last Updated on 2005-10-07

## SYSTEM NO. C-AJ-4071

**Through-penetration Firestop Systems**

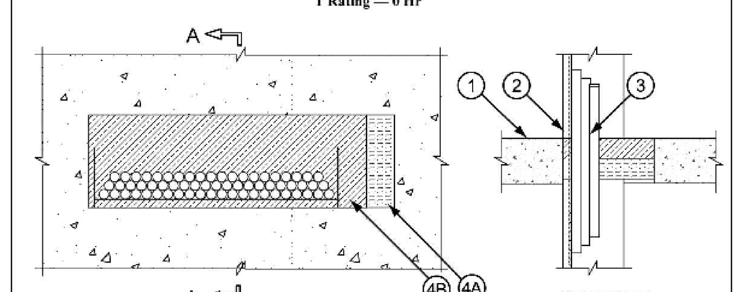
See General Information for Through-penetration Firestop Systems

**System No. C-AJ-4071**

April 26, 2004

**F Rating — 2 Hr**

**T Rating — 0 Hr**



SECTION AA

1. **Floor or Wall Assembly** — Min 4-1/2 in. (114 mm) thick reinforced lightweight or normal weight (100-150 pcf or 1600-2400 kg/m$^3$) concrete floor. Min 5 in. (127 mm) thick reinforced lightweight or normal weight (100-150 pcf or 1600-2400 kg/m$^3$) concrete wall. Wall may also be constructed of any UL Classified **Concrete Blocks***. Max size of opening is 30 by 9 in. (762 by 229 mm).

See **Concrete Blocks** (CAZT) category in the Fire Resistance Directory for names of manufacturers.

2. **Cable Tray*** — Max 24 in. (610 mm) wide by 6 in. (152 mm) deep open-ladder steel or aluminum cable tray. The annular space between cable tray and periphery of opening shall be min 0 in. (0 mm) (point contact) to max 6 in. (152 mm). Cable tray to be rigidly supported on both sides of floor or wall assembly.

3. **Cables** — Aggregate cross-sectional area of cable tray to be max 67 percent of the cross-sectional area of the cable tray. Any combination of the following types and sizes of cables may be used:

A. Max 300 pair No. 24 AWG telephone cable with polyvinyl chloride (PVC) insulation and jacket.

B. Max 500 kcmil single conductor copper or aluminum power cable with PVC jacket material.

C. Multiple fiber optical communication cable with PVC jacket and having a max OD of 1/2 in. (12 mm).

D. Max 3/C No. 12 AWG copper conductor steel clad cable with PVC insulation.

E. Max 7/C No. 12 AWG copper conductor cable jacket with PVC.

4. **Firestop System** — The firestop system shall consist of the following:

A. **Packing Material** — Min 4 in. (102 mm) thickness of 4 pcf (64 kg/m$^3$) mineral wool batt insulation tightly packed into the opening as a permanent form. Packing material to be recessed from top surface of floor or both surfaces of wall to accommodate the required thickness of fill material.

B. **Fill, Void or Cavity Material - Sealant*** — Min 1/2 in. (13 mm) thickness of fill material applied within the annulus flush with the top surface of the floor or both surfaces of the wall.

**HILTI CONSTRUCTION CHEMICALS, DIV OF**

**HILTI INC** — FS-ONE Sealant

*Bearing the UL Classification Mark

Last Updated on 2004-04-26

## SYSTEM NO. W-L-4060

**Through-penetration Firestop Systems**

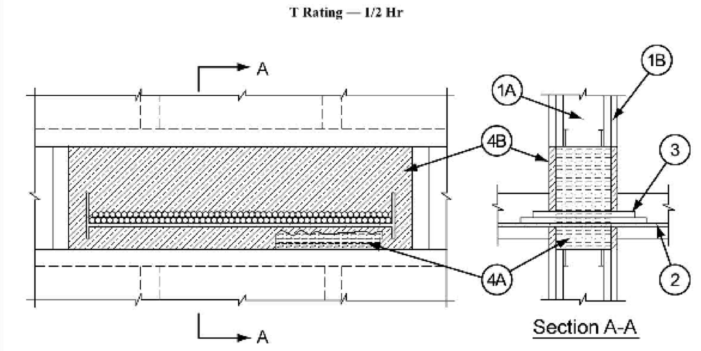
See General Information for Through-penetration Firestop Systems

**System No. W-L-4060**

October 29, 2004

**F Ratings — 1 and 2 Hr (See Item 1)**

**T Rating — 1/2 Hr**



Section A-A

1. **Wall Assembly** — The 1 or 2 hr fire-rated gypsum board/stud wall assembly shall be constructed of the materials and in the manner specified in the individual U300, U400 or V400 Series Wall and Partition Designs in the UL Fire Resistance Directory and shall include the following construction features:

A. **Studs** — Wall framing may consist of either wood studs or channel shaped steel studs. Wood studs to consist of nom 2 by 4 in. (51 by 102 mm) lumber spaced max 16 in. (406 mm) OC. Steel studs to be min 3-1/2 in. (89 mm) wide and spaced max 24 in. (610 mm) OC. Additional framing members shall be installed in stud cavity to form a rectangular box around the penetrants.

B. **Gypsum Board*** — 5/8 in. (16 mm) thick with square or tapered edges. The gypsum board type, thickness, number of layers, fastener type and sheet orientation shall be as specified in the individual U300, U400 or V400 Wall and Partition Design. If the cable tray is installed in a wood stud/gypsum board assembly, the max area of opening is 130 in.2 (842 cm$^2$) with max dimension of 14-1/2 in. (368 mm). If the cable tray is installed in a steel stud/gypsum board assembly, max area of opening is 270 in2. (1742 cm$^2$) with max dimension of 30 in. (762 mm) wide.

**The hourly F Rating of the firestop system is equal to the hourly fire rating of the wall assembly in which it is installed.**

2. **Cable Tray** — For wall assemblies consisting of steel studs, max 24 in. (610 mm) wide by max 6 in. (152 mm) deep open ladder cable tray with channel-shaped side rails formed of min 0.060 in. (1.5 mm) thick galv steel or aluminum with nom 1 in. (25 mm) diam rungs spaced 9 in. (229 mm) OC. For wall assemblies consisting of wood studs, max 12 in. (305 mm) wide by max 6 in. (152 mm) deep open ladder cable tray with channel-shaped side rails formed of min 0.060 in. (1.5 mm) thick galv steel or aluminum with nom 1 in. (25 mm) diam rungs spaced 9 in. (229 mm) OC. The annular space between the cable tray and the periphery of the opening will be min 0 in. (0 mm, point contact) to max 3 in. (76 mm). Cable tray to be rigidly supported on both sides of wall assembly.

3. **Cables** — Aggregate cross-sectional area of cable tray to be max 40 percent of the cross-sectional area of the cable tray based on a max 5 in. (127 mm) loading depth. Any combination of the following types and sizes of cables may be used:

A. Max 300 pair No. 24 AWG telephone cable with polyvinyl chloride (PVC) insulation and jacket.

B. Max 750 kcmil single conductor copper power cable with PVC jacket material.

C. Multiple fiber optical communication cable with PVC jacket and having a max OD of 1/2 in. (12 mm).

D. **Through Penetrating Product*** — Max 3/C No. 12 AWG (or smaller) Metal-Clad Cable+ currently Classified under the Through Penetrating Product category.

See **Through Penetrating Product** (XHLY) category in the Fire Resistance Directory for names of manufacturers.

4. **Firestop System** — The firestop system shall consist of the following:

A. **Packing Material** — In 2 hr fire rated wall assemblies, min 5 in. (127 mm) thickness of min 4 pcf (64 kg/m$^3$) mineral wool batt insulation firmly packed into opening as a permanent form. In 1 hr fire rated wall assemblies, min 3-3/4 in. (95 mm) thickness of min 4 pcf (64 kg/m$^3$) mineral wool batt insulation firmly packed into opening as a permanent form. Packing material recessed from both surfaces of the wall to accommodate the required thickness of fill material.

B. **Fill, Void or Cavity Material* — Sealant** — Min 1/2 in. (13 mm) thickness of fill material applied within annulus, flush with both surfaces of wall. A min 1/2 in. (13 mm) diam bead of fill material shall be applied at the gypsum board/through penetrant interface at point contact location on both surfaces of wall.

**HILTI CONSTRUCTION CHEMICALS, DIV OF**

**HILTI INC** — FS-ONE Sealant

*Bearing the UL Classification Mark

+ Bearing the UL Listing Mark

Last Updated on 2004-10-29

## SYSTEM NO. C-AJ-1226

**System No. C-AJ-1226**

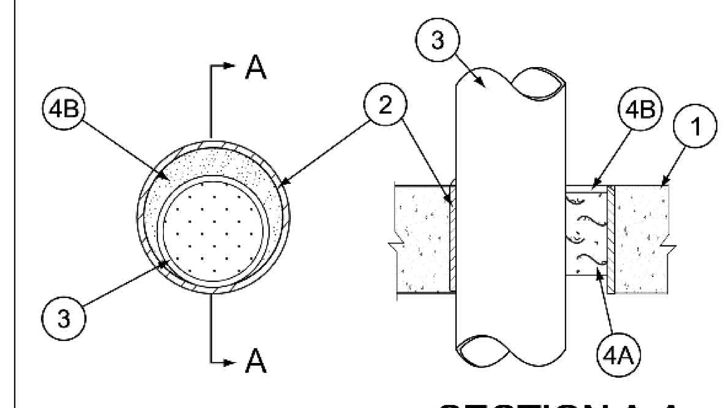
June 27, 2007

**F Rating — 3 Hr**

**T Rating — 0 Hr**

**L Rating At Ambient — Less Than 1 CFM/Sq Ft**

**L Rating At 400 F — 4 CFM/Sq Ft**



SECTION A-A

1. **Floor or Wall Assembly** — Min 4-1/2 in. thick reinforced lightweight or normal weight (100-150 pcf) concrete. Wall may also be constructed of any UL Classified **Concrete Blocks***. Max diam of opening is 32 in.

2. **Metallic Sleeve** — (Optional) Nom 32 in. diam (or smaller) Schedule 40 (or heavier) steel sleeve cast or grouted into floor or wall assembly, flush with floor or wall surfaces or extending a max of 3 in. above floor or beyond both surfaces of wall.

2A. **Sheet Metal Sleeve** — (Optional) Max 6 in. diam, min 26 ga galv steel provided with a 26 ga galv steel square flange spot welded to the sleeve at approx mid-height, or flush with bottom of sleeve in floors, and sized to be a min of 2 in. larger than the sleeve diam. The sleeve is to be cast in place and may extend a max of 4 in. below the bottom of the deck and a max of 1 in. above the top surface of the concrete floor.

2B. **Sheet Metal Sleeve** — (Optional) - Max 12 in. diam, min 24 ga galv steel provided with a 24 ga galv steel square flange spot welded to the sleeve at approx mid-height, or flush with bottom of sleeve in floors, and sized to be a min of 2 in. larger than the sleeve diam. The sleeve is to be cast in place and may extend a max of 4 in. below the bottom of the deck and a max of 1 in. above the top surface of the concrete floor.

3. **Through-Penetrant** — One metallic pipe, tube or conduit to be installed either concentrically or eccentrically within the firestop system. The annular space between penetrant and periphery of opening shall be min 0 in. (point contact) to max 1-7/8 in. Penetrant may be installed with continuous point contact. Penetrant to be rigidly supported on both sides of floor or wall assembly. The following types and sizes of metallic penetrants may be used:

A. **Steel Pipe** — Nom 30 in. diam (or smaller) Schedule 10 (or heavier) steel pipe.

B. **Iron Pipe** — Nom 30 in. diam (or smaller) cast or ductile iron pipe.

C. **Copper Pipe** — Nom 6 in. diam (or smaller) Regular (or heavier) copper pipe.

D. **Copper Tubing** — Nom 6 in. diam (or smaller) Type L (or heavier) copper tubing.

E. **Conduit** — Nom 6 in. diam (or smaller) steel conduit.

F. **Conduit** — Nom 4 in. diam (or smaller) steel electrical metallic tubing (EMT).

4. **Firestop System** — The firestop system shall consist of the following:

A. **Packing Material** — Min 4 in. thickness of min 4 pcf mineral wool batt insulation firmly packed into opening as a permanent form. Packing material to be recessed from top surface of floor or sleeve or from both surfaces of wall or sleeve as required to accommodate the required thickness of fill material.

B. **Fill, Void or Cavity Material* — Sealant** — Min 1/4 in. thickness of fill material applied within the annulus, flush with top surface of floor or sleeve or with both surfaces of wall or sleeve. At the point or continuous contact locations between penetrant and concrete or sleeve, a min 1/4 in. diam bead of fill material shall be applied at the concrete or sleeve/ pipe penetrant interface on the top surface of floor and on both surfaces of wall.

**HILTI CONSTRUCTION CHEMICALS, DIV OF**

**HILTI INC** — FS-One Sealant

*Bearing the UL Classification Mark

Last Updated on 2007-06-27

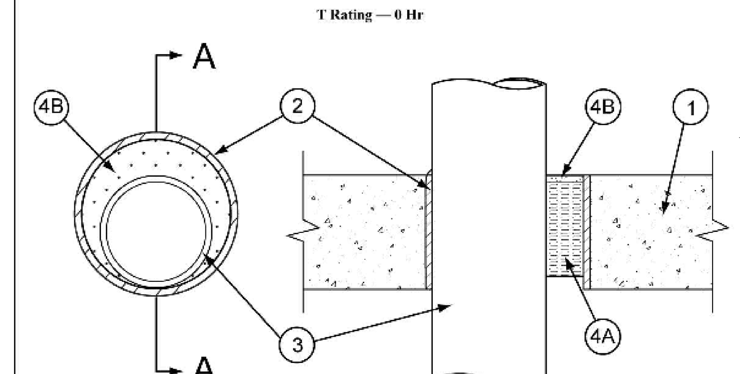
## SYSTEM NO. C-AJ-1421

**System No. C-AJ-1421**

April 26, 2004

**F Rating — 2 and 3 Hr (See Item 4B)**

**T Rating — 0 Hr**



1. **Floor or Wall Assembly** — Min 4-1/2 in. (114 mm) thick reinforced lightweight or normal weight (100-150 pcf or 1600-2400 kg/m$^3$) concrete. Wall may also be constructed of any UL Classified **Concrete Blocks***. Max diam of opening is 6 in. (152 mm).

See **Concrete Blocks** (CAZT) category in the Fire Resistance Directory for names of manufacturers.

2. **Metallic Sleeve** — (Optional) Nom 6 in. (152 mm) diam (or smaller) Schedule 40 (or heavier) steel sleeve cast or grouted into floor or wall assembly, flush with floor or wall surfaces.

3. **Through-Penetrant** — One metallic pipe or conduit to be installed either concentrically or eccentrically within the firestop system. The annular space between pipe, tube or conduit and periphery of opening shall be min 0 in. (0 mm) (point contact) to max 5-3/8 in. (137 mm). Pipe or conduit to be rigidly supported on both sides of floor or wall assembly. The following types and sizes of metallic pipes or conduits may be used:

A. **Steel Pipe** — Nom 4 in. (102 mm) diam (or smaller) Schedule 10 (or heavier) steel pipe.

B. **Iron Pipe** — Nom 4 in. (102 mm) diam (or smaller) cast or ductile iron pipe.

C. **Copper Pipe** — Nom 4 in. (102 mm) diam (or smaller) Regular (or heavier) copper pipe.

D. **Copper Tubing** — Nom 4 in. (102 mm) diam (or smaller) Type L (or heavier) copper tubing.

E. **Conduit** — Nom 4 in. (102 mm) diam (or smaller) steel conduit.

F. **Conduit** — Nom 4 in. (102 mm) diam (or smaller) steel electrical metallic tubing (EMT).

4. **Firestop System** — The firestop system shall consist of the following:

A. **Packing Material** — Min 4 in. (102 mm) thickness of min 4 pcf (64 kg/m$^3$) mineral wool batt insulation firmly packed into opening as a permanent form. Packing material to be recessed from top surface of floor or from both surfaces of wall as required to accommodate the required thickness of fill material.

B. **Fill, Void or Cavity Material* - Sealant** — Min 1/4 in. (6 mm) thickness of fill material applied within the annulus, flush with top surface of floor or with both surfaces of wall. For 3 Hr rated assemblies, a min 1/4 in. (6 mm) diam bead of fill material shall be applied at the concrete/pipe interface at the point contact location on the top surface of floor and on both surfaces of wall.

**HILTI CONSTRUCTION CHEMICALS, DIV OF**

**HILTI INC** — FS-ONE Sealant or CP604 Self-Leveling Firestop Sealant. CP604 shall be used in floor applications only.

**When CP604 is used, F Rating is 2 Hr.**

*Bearing the UL Classification Mark

Last Updated on 2004-04-26


VCBO
ARCHITECTURE
VALENTINER
CRANE
BRUNJES
ONYON

BRENT R. TIPPETS
10-2-12
STATE OF UTAH

VCBO ARCHITECTURE
524 SOUTH 600 EAST
SALT LAKE CITY, UT 84102
Phone: (801) 575-8800
Fax: (801) 531-9850
www: www.vcbo.com


DFCM CODE COMPLIANCE STAMP

**Student Activity Center**
Stromberg Addition - BID SET
Weber State University
3750 Harrison Blvd. Ogden, UT 84408

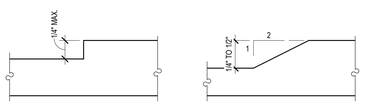
Rev # | Date | Description

Job # 12475
CAD File
Drawn Author Checked Checker
Date 10.03.2012
Owner # DFCM #12031810

FIRESTOP SYSTEMS

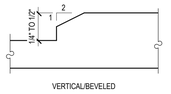
G203

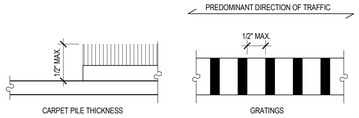
10/3/2012 1:14:54 PM





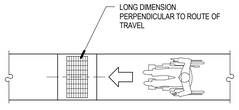




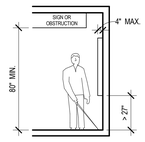







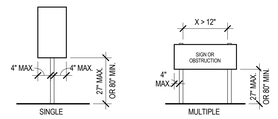



## 303. CHANGES IN LEVEL



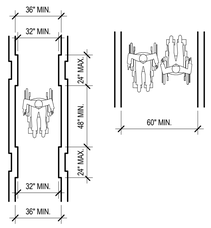

LIMITS OF PROTRUDING OBJECTS

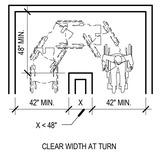
**307.3 POST-MOUNTED OBJECTS.** OBJECTS ON POSTS OR PYLONS SHALL BE PERMITTED TO OVERHANG 4 INCHES MAXIMUM WHERE MORE THAN 27 INCHES AND NOT MORE THAN 80 INCHES ABOVE THE FLOOR. OBJECTS ON MULTIPLE POSTS OR PYLONS WHERE THE CLEAR DISTANCE BETWEEN THE POSTS OR PYLONS IS GREATER THAN 12 INCHES SHALL HAVE THE LOWEST EDGE OF SUCH OBJECT EITHER 27 INCHES MAXIMUM OR 80 INCHES MINIMUM ABOVE THE FLOOR.




POST MOUNTED PROTRUDING OBJECTS

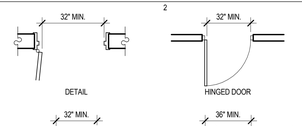
## 307. PROTRUDING OBJECTS



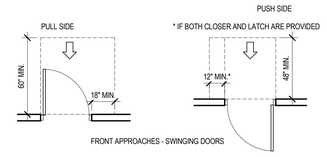




CLEAR WIDTH AT TURN

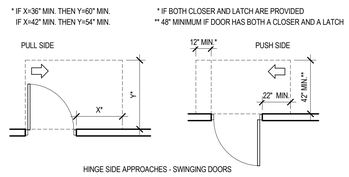
## 403. ACCESSIBLE ROUTES



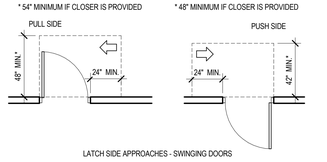

CLEAR DOORWAY WIDTH AND DEPTH



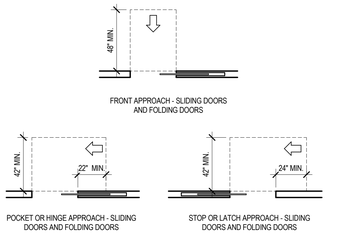

FRONT APPROACHES - SWINGING DOORS

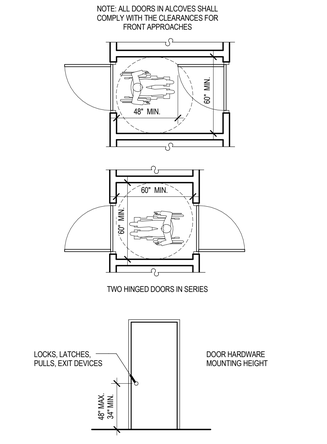



HINGE SIDE APPROACHES - SWINGING DOORS

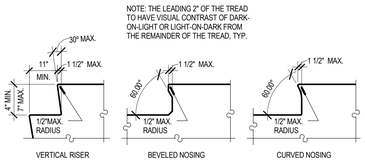



LATCH SIDE APPROACHES - SWINGING DOORS

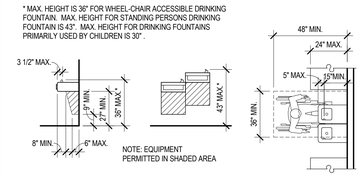


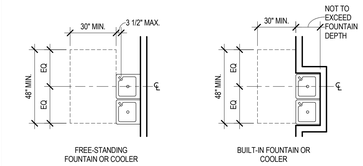




## 404. DOORS AND DOORWAYS



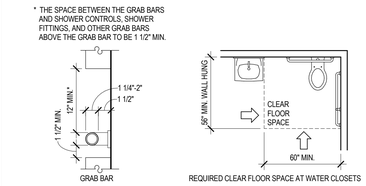

## 504.5 STAIR NOSINGS

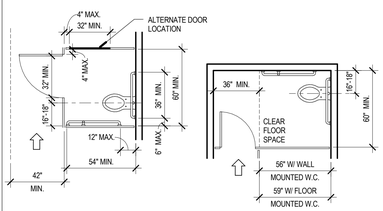


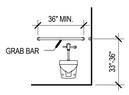




DRINKING FOUNTAINS AND WATER COOLERS

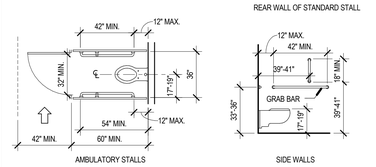
## 602 DRINKING FOUNTAINS



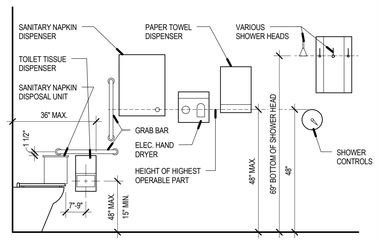



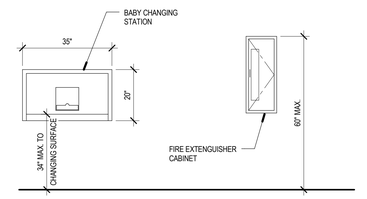

REAR WALL OF STANDARD STALL



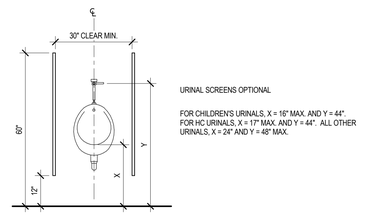

ALL WATER CLOSET STALLS SHALL BE A MINIMUM OF 60" DEEP PER IPC 405.3.1

## 604 TOILETS AND TOILET COMPARTMENTS



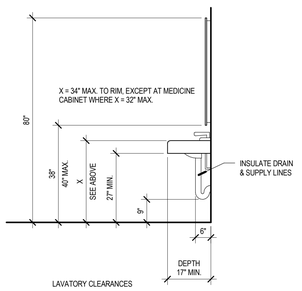

## 604.7 ACCESSORIES AND EQUIPMENT



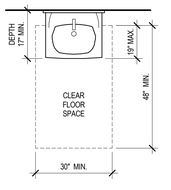

URINAL SCREENS OPTIONAL

FOR CHILDREN'S URINALS, X = 16" MAX. AND Y = 44". FOR HC URINALS, X = 17" MAX. AND Y = 44". ALL OTHER URINALS, X = 24" AND Y = 48" MAX.

## 605 URINALS



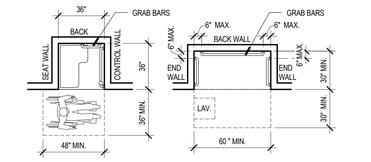

LAVATORY CLEARANCES



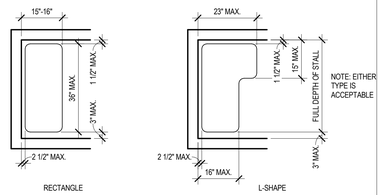

CLEAR FLOOR SPACE AT LAVATORIES

NOTE: WHERE ENHANCED REACH RANGE IS REQUIRED AT LAVATORIES, FAUCETS AND SOAP DISPENSER CONTROLS TO HAVE A REACH DEPTH OF 11" MAX. OR IF AUTOMATIC TO BE ACTIVATED WITH IN A REACH OF 11" MAX. WATER AND SOAP FLOW TO BE PROVIDED WITI HA REACH DEPTH OF 11" MAX.

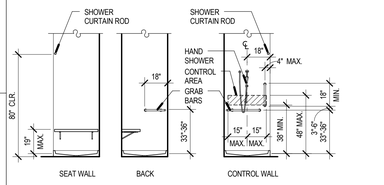
## 606. LAVATORIES AND SINKS



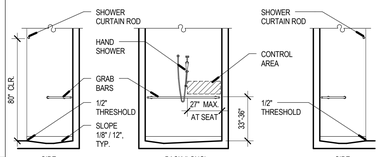

SHOWER COMPARTMENT




SHOWER SEAT DESIGN



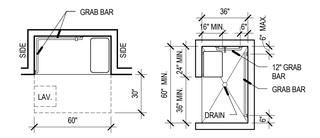

TRANSFER TYPE 36" X 36" STALL




NOTE: SHOWER HEAD AND CONTROL AREA MAY BE ON BACK (LONG) WALL (AS SHOWN) OR ON EITHER SIDE WALL.

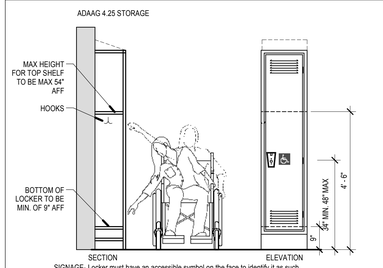
GRAB BARS AT SHOWER STALLS — 30" X 60" STALL

STANDARD ROLL-IN




ROLL-IN SHOWER WITH FOLDING SEAT

## 608. SHOWER COMPARTMENTS




SIGNAGE- Locker must have an accessible symbol on the face to identify it as such

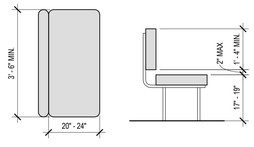
HANDLE- Shall have a shape that is easy to grasp with one hand and does not require tight grasping, tight pinching or twisting of the wrist to operate.

SHELF AND BOTTOM LOCATION- If the locker contains a shelf, it must be located at a height conforming to forward or parallel reach requirements so that it can be reached from a seated position. The bottom of the locker must also have a shelf located at a height conforming to parallel or forward reach requirements so that any item placed or dropped on the bottom shelf is accessible

PLACEMENT- The locker must be located in an unobstructed position that maintains full clearance from the wall or other obstacles and allows sufficient turning radius for easy access and exit by parallel or frontal approach. See specification for reach requirements and diagram

LOCKS- To conform to ADA guidelines, lockers specified for ADA use must employ ADA-compliant locks.

BENCH- ADAAG 4.37- In the area of accessible lockers there must also be an accessible bench. Height must be between 17"-19", Depth must be 24"




## LOCKERS AND BENCHES

VCBO ARCHITECTURE
524 SOUTH 600 EAST
SALT LAKE CITY, UT 84102
Phone: (801) 575-8800
Fax: (801) 531-9850
WWW: www.vcbo.com

DFCM CODE COMPLIANCE STAMP

# Student Activity Center
## Stromberg Addition - BID SET
Weber State University
3750 Harrison Blvd. Ogden, UT 84408

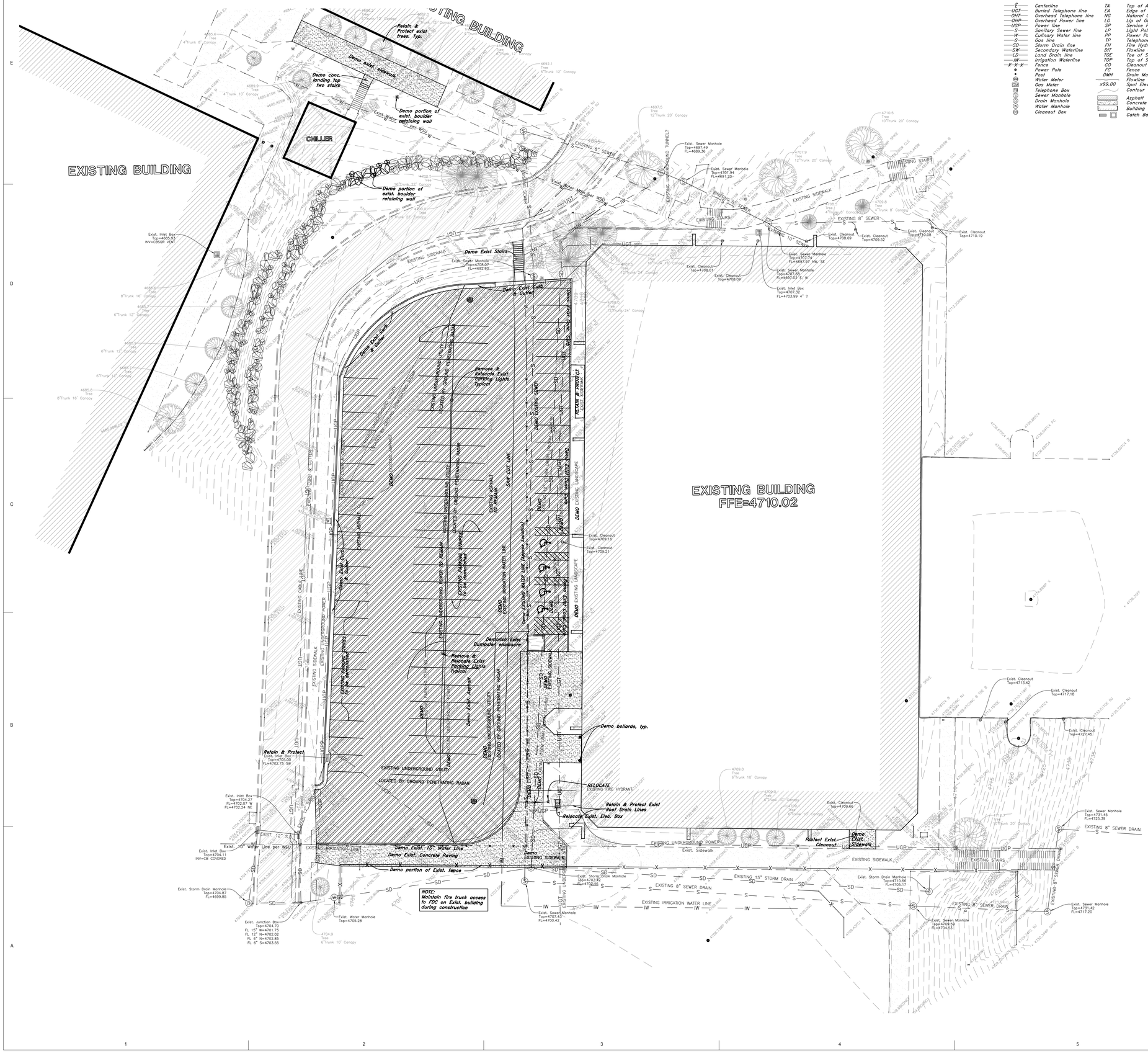
| Rev # | Date | Description |
|---|---|---|

Job # 12475
CAD File
Drawn Author Checked Checker
Date 10.03.2012
Owner # DFCM #12031810

TYPICAL ANSI ACCESSIBILITY STANDARDS

G300

10/3/2012 1:15:00 PM




## LEGEND

| | | | | | |
|---|---|---|---|---|---|
| ℄ | Centerline | TA | Top of Asphalt | C.M.P. | Corrugated Metal Pipe |
| UGT | Buried Telephone line | EA | Edge of Asphalt | R.C.P. | Reinforced Concrete Pipe |
| OHT | Overhead Telephone line | NG | Natural Ground | CONC | Edge of Concrete |
| OHP | Overhead Power line | LG | Lip of Gutter | RWALL | Retaining Wall |
| UGP | Power line | SP | Service Pole | SMH | Sewer Manhole |
| S | Sanitary Sewer line | LP | Light Pole | WV | Water Valve |
| W | Culinary Water line | PP | Power Pole | CB | Catch Basin |
| G | Gas line | TP | Telephone Pole | DV | Diversion Box |
| SD | Storm Drain line | FH | Fire Hydrant | TC | Top of Curb |
| SW | Secondary Waterline | DIT | Flowline of Ditch | SW | Sidewalk |
| LD | Land Drain line | TOE | Toe of Slope | GAS | Gas line Marker |
| IW | Irrigation Waterline | TOP | Top of Slope | GUY | Guy Wire |
| X X X | Fence | CO | Cleanout | BLDG | Building Corner |
| | Power Pole | FC | Fence | NG | Natural Ground |
| | Post | DMH | Drain Manhole | | Fire Hydrant |
| | Water Meter | | Flowline | | Water Valve |
| | Gas Meter | x99.00 | Spot Elevation | | Light Pole |
| | Telephone Box | | Contour | | Power Pole w/guy |
| | Sewer Manhole | | Asphalt | | Deciduous Tree |
| | Drain Manhole | | Concrete | | Coniferous Tree |
| | Water Manhole | | Building | | |
| | Cleanout Box | | Catch Basin | | |

Scale: 1" = 20'

20 0 10 20 25 30 35 40

Graphic Scale

**NOTE TO CONTRACTOR:**
1. General Contractor to GPS locate all exposed existing or new utilities before they are buried, and coordinate these locations with WSU.

**General Demolition Notes:**
1. Demolition and site clearing for this contract are to include all areas shown within demolition limits or by note.
2. Refer to site improvement plans for more details on limits of removal.
3. Demolish existing buildings and clear from site. (Including removal of all footings and foundations.)
4. All curbs, gutters, walks, slabs, walls, fences, flatwork, asphalt, waterlines and meters, gas lines, sewer lines, light poles, buried cables, storm drain piping and structures to be cleared from site unless otherwise shown.
5. All utilities, sewer, water, gas, telephone and electrical services to be disconnected and capped According to city, county and utility company requirements, unless otherwise shown.
6. Basements and other excavated areas to be backfilled with clean granular material compacted to 95% of maximum lab density as determined by ASTM D 1557-78. (Test results to be given to owner)
7. Clear and grub trees, shrubs, and vegetation within construction limits, disposal to be off-site Except where noted otherwise.
8. DO NOT interrupt any services or disrupt the operation of any businesses shown outside the demolition limits.
9. If ASBESTOS is found in existing structures, the Asbestos must be removed in a legal manner by a contractor licensed to handle asbestos materials. (Not a part of contract)
10. Remove debris, rubbish, and other materials resulting from the demolition and site clearing operations from the site and dispose of in a legal manner.
11. The location and/or elevation of existing utilities as shown on these plans is based on records of the various utility companies and, where possible, measurements taken in the field. The information is not to be relied upon as being exact or complete. Contractor shall contact authorities having jurisdiction for field locations. Contractor shall be responsible for protection of in place and relocated utilities during construction.
12. Stockpiles shall be graded to maintain slopes not greater than 3 horizontal to 1 vertical. Provide erosion control as needed to prevent sediment transport to adjacent drainage ways.
13. Contractor shall be responsible for disposal of all waste material. Disposal shall be at an approved site for such material. Burning onsite is not permitted.
14. Contractor shall verify with city any street removal, curb cuts, and any restoration required for utility line removal.
15. Install traffic warning devices as needed in accordance with local standards.
16. Contractor shall obtain all permits necessary for demolition from City, County, State or Federal Agencies as required.

**CAUTION NOTICE TO CONTRACTOR**
The contractor is specifically cautioned that the location and/or elevation of existing utilities as shown on these plans are based on records of the various utility companies and, where possible, measurements taken in the field. The information is not to be relied on as being exact or complete. The contractor must call the appropriate utility company at least 48 hours before any excavation to request exact field location of utilities. It shall be the responsibility of the contractor to relocate all existing utilities which conflict with the propose improvements shown on the plans.

*PRIVATE ENGINEER'S NOTICE TO CONTRACTORS*
*The Contractor agrees that he shall assume sole and complete responsibility for job site conditions during the course of construction of this project, including safety of all persons and property; that this requirement shall apply continuously and not be limited to normal working hours; and that the contractor shall defend, indemnify, and hold the owner and the engineer harmless from any and all liability, real or alleged, in connection with the performance of work on this project, excepting for liability arising from the sole negligence of the owner or the engineer.*

*ALL CONSTRUCTION TO CONFORM TO CITY STANDARDS AND SPECIFICATIONS IN RIGHT OF WAY*


GREAT BASIN ENGINEERING
5746 South 1475 East Suite 200
Ogden, Utah 84403 Main (801)394-4515
S.L.C (801)521-0222 Fax 801-392-7544
www.greatbasinengineering.com

VCBO ARCHITECTURE
VALENTINER
CRANE
BRUNJES
ONYON

LICENSED PROFESSIONAL ENGINEER
No. 166184
MARK EUGENE BABBITT
10-2-12
STATE OF UTAH

VCBO ARCHITECTURE
524 SOUTH 600 EAST
SALT LAKE CITY, UT 84102
Phone: (801) 575-8800
Fax: (801) 531-9850
WWW: www.vcbo.com


DFCM CODE COMPLIANCE STAMP

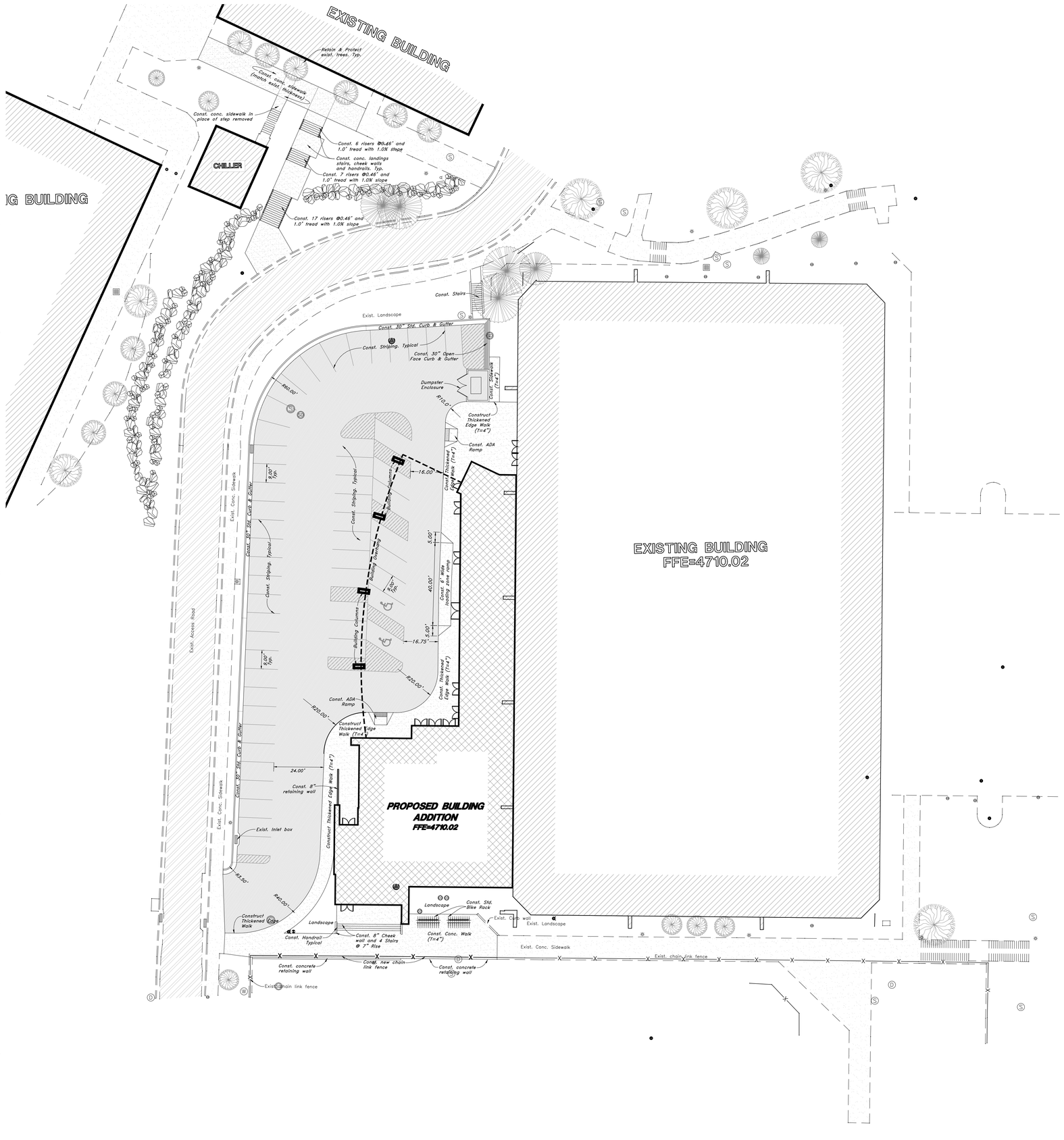
# Student Activity Center
## Stromberg Addition - BID SET
Weber State University
3750 Harrison Blvd. Ogden, UT 84408

| Rev # | Date | Description |
|---|---|---|

Job # 12475
Date 10.03.2012
Owner # DFCM PROJECT
Ins. # #12031810

DEMOLITION PLAN

CD101




## LEGEND

| | | | | | |
|---|---|---|---|---|---|
| —℄— | Centerline | TA | Top of Asphalt | C.M.P. | Corrugated Metal Pipe |
| —UGT— | Buried Telephone line | EA | Edge of Asphalt | R.C.P. | Reinforced Concrete Pipe |
| —OHT— | Overhead Telephone line | NG | Natural Ground | CONC | Edge of Concrete |
| —OHP— | Overhead Power line | LG | Lip of Gutter | RWALL | Retaining Wall |
| —UGP— | Power line | SP | Service Pole | SMH | Sewer Manhole |
| —S— | Sanitary Sewer line | LP | Light Pole | WV | Water Valve |
| —W— | Culinary Water line | PP | Power Pole | CB | Catch Basin |
| —G— | Gas line | TP | Telephone Pole | DV | Diversion Box |
| —SD— | Storm Drain line | FH | Fire Hydrant | TC | Top of Curb |
| —SW— | Secondary Waterline | DIT | Flowline of Ditch | SW | Sidewalk |
| —LD— | Land Drain line | TOE | Toe of Slope | GAS | Gas line Marker |
| —IW— | Irrigation Waterline | TOP | Top of Slope | GUY | Guy Wire |
| —X—X—X— | Fence | CO | Cleanout | BLDG | Building Corner |
| | Power Pole | FC | Fence | NG | Natural Ground |
| | Post | DMH | Drain Manhole | | Fire Hydrant |
| | Water Meter | | Flowline | | Water Valve |
| | Gas Meter | x99.00 | Spot Elevation | LP | Light Pole |
| | Telephone Box | | Contour | | Power Pole w/guy |
| | Sewer Manhole | | Asphalt | | Deciduous Tree |
| | Drain Manhole | | Concrete | | Coniferous Tree |
| | Water Manhole | | Building | | |
| | Cleanout Box | | Catch Basin | | |

Scale: 1" = 20'

20 0 10 20 25 30 35 40

Graphic Scale

**NOTE TO CONTRACTOR:**
1. General Contractor to GPS locate all exposed existing or new utilities before they are buried, and coordinate these locations with WSU.

General Site Notes:
1. Stalls designated as handicap will require a painted handicap symbol and sign. (See Details)
2. Fire lane markings and signs to be installed as directed by the Fire Marshall.
3. Aisle markings, directional arrows and stop bars will be painted at each driveway as shown on the plans.
4. See Horizontal Control plan for coordinates, radiuses and detailed dimensions of site improvements.
5. Building sidewalks, ramps, and bollards are building contractor responsible items. See architectural plans.
6. All dimensions are to back of curb unless otherwise noted.

*PRIVATE ENGINEER'S NOTICE TO CONTRACTORS*

*The Contractor agrees that he shall assume sole and complete responsibility for job site conditions during the course of construction of this project, including safety of all persons and property; that this requirement shall apply continuously and not be limited to normal working hours; and that the contractor shall defend, indemnify, and hold the owner and the engineer harmless from any and all liability, real or alleged, in connection with the performance of work on this project, excepting for liability arising from the sole negligence of the owner or the engineer.*

*ALL CONSTRUCTION TO CONFORM TO CITY STANDARDS AND SPECIFICATIONS IN RIGHT OF WAY*


GREAT BASIN ENGINEERING INC
5746 South 1475 East Suite 200
Ogden, Utah 84403 Main (801)394-4515
S.L.C (801)521-0222 Fax 801-392-7544
www.greatbasinengineering.com

VCBO ARCHITECTURE
VALENTINER
CRANE
BRUNJES
ONYON

VCBO ARCHITECTURE
524 SOUTH 600 EAST
SALT LAKE CITY, UT 84102
Phone: (801) 575-8800
Fax: (801) 531-9850
www: www.vcbo.com


No. 166184 MARK EUGENE BABBITT 10-2-12 STATE OF UTAH

DFCM CODE COMPLIANCE STAMP

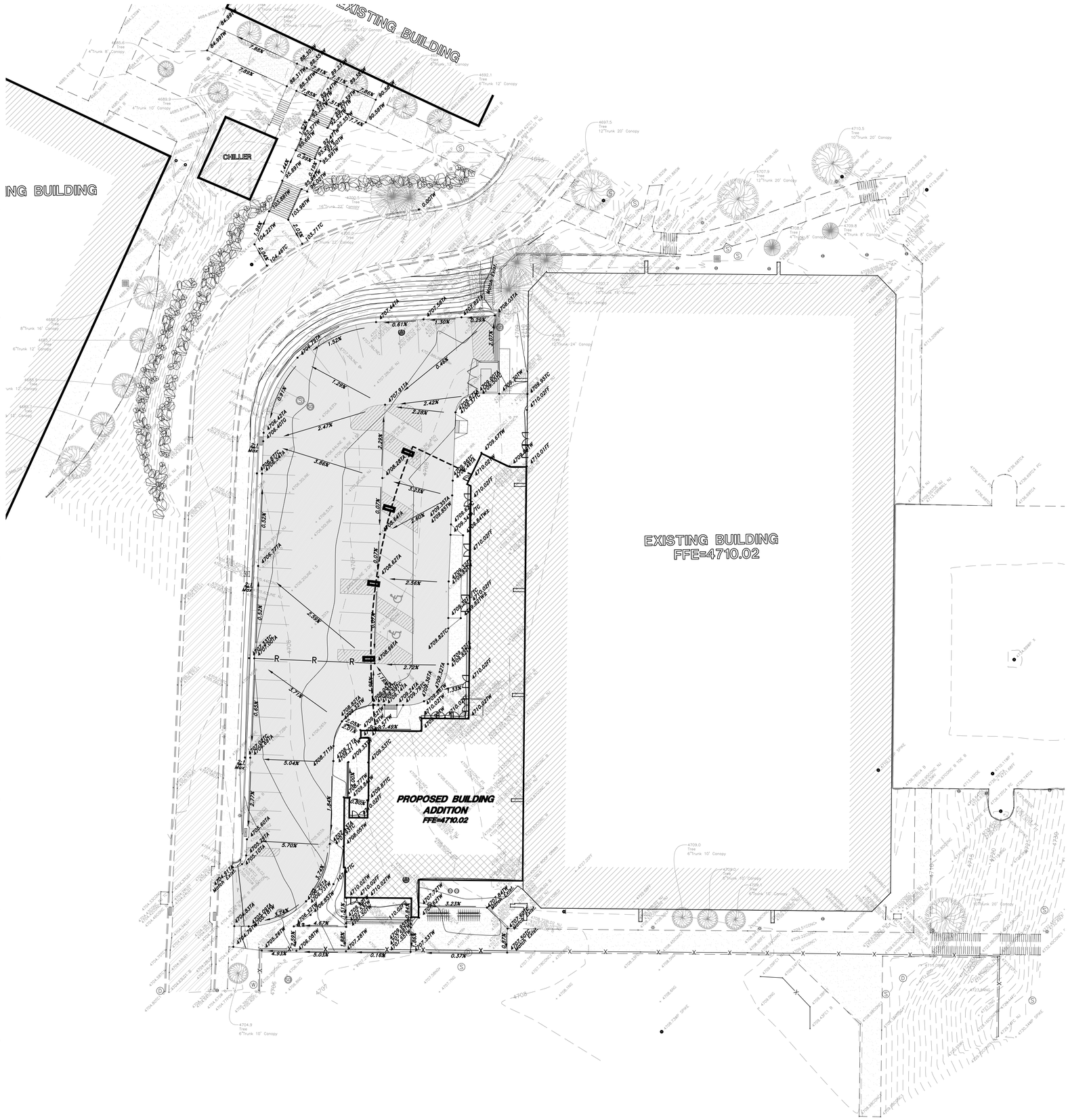
# Student Activity Center
## Stromberg Addition - BID SET
Weber State University
3750 Harrison Blvd. Ogden, UT 84408

| Rev # | Date | Description |
|---|---|---|

Job # 12475
Date 10.03.2012
Owner # DFCM PROJECT
Ins. # #12031810

SITE, GRADING & DRAINAGE PLAN

CS101




## LEGEND

| | | | | | |
|---|---|---|---|---|---|
| —E— | Centerline | TA | Top of Asphalt | C.M.P. | Corrugated Metal Pipe |
| —UGT— | Buried Telephone line | EA | Edge of Asphalt | R.C.P. | Reinforced Concrete Pipe |
| —OHT— | Overhead Telephone line | NG | Natural Ground | CONC | Edge of Concrete |
| —OHP— | Overhead Power line | LG | Lip of Gutter | RWALL | Retaining Wall |
| —UGP— | Power line | SP | Service Pole | SMH | Sewer Manhole |
| —S— | Sanitary Sewer line | LP | Light Pole | WV | Water Valve |
| —W— | Culinary Water line | PP | Power Pole | CB | Catch Basin |
| —G— | Gas line | TP | Telephone Pole | DV | Diversion Box |
| —SD— | Storm Drain line | FH | Fire Hydrant | TC | Top of Curb |
| —SW— | Secondary Waterline | DIT | Flowline of Ditch | SW | Sidewalk |
| —LD— | Land Drain line | TOE | Toe of Slope | GAS | Gas line Marker |
| —IW— | Irrigation Waterline | TOP | Top of Slope | GUY | Guy Wire |
| —x—x—x— | Fence | CO | Cleanout | BLDG | Building Corner |
| | Power Pole | FC | Fence | NG | Natural Ground |
| | Post | DMH | Drain Manhole | | Fire Hydrant |
| | Water Meter | | Flowline | | Water Valve |
| | Gas Meter | x99.00 | Spot Elevation | | Light Pole |
| | Telephone Box | | Contour | | Power Pole w/guy |
| | Sewer Manhole | | Asphalt | | Deciduous Tree |
| | Drain Manhole | | Concrete | | Coniferous Tree |
| | Water Manhole | | Building | | |
| | Cleanout Box | | Catch Basin | | |

**NOTE TO CONTRACTOR:**
1. General Contractor to GPS locate all exposed existing or new utilities before they are buried, and coordinate these locations with WSU.

General Site Notes:
1. Stalls designated as handicap will require a painted handicap symbol and sign. (See Details)
2. Fire lane markings and signs to be installed as directed by the Fire Marshall.
3. Aisle markings, directional arrows and stop bars will be painted at each driveway as shown on the plans.
4. See Horizontal Control plan for coordinates, radiuses and detailed dimensions of site improvements.
5. Building sidewalks, ramps, and bollards are building contractor responsible items. See architectural plans.
6. All dimensions are to back of curb unless otherwise noted.

*PRIVATE ENGINEER'S NOTICE TO CONTRACTORS*

*The Contractor agrees that he shall assume sole and complete responsibility for job site conditions during the course of construction of this project, including safety of all persons and property; that this requirement shall apply continuously and not be limited to normal working hours; and that the contractor shall defend, indemnify, and hold the owner and the engineer harmless from any and all liability, real or alleged, in connection with the performance of work on this project, excepting for liability arising from the sole negligence of the owner or the engineer.*

*ALL CONSTRUCTION TO CONFORM TO CITY STANDARDS AND SPECIFICATIONS IN RIGHT OF WAY*

GREAT BASIN ENGINEERING
5746 South 1475 East Suite 200
Ogden, Utah 84403 Main (801)394-4515
S.L.C (801)521-0222 Fax 801-392-7544
www.greatbasinengineering.com

VCBO ARCHITECTURE
VALENTINER
CRANE
BRUNJES
ONYON

VCBO ARCHITECTURE
524 SOUTH 600 EAST
SALT LAKE CITY, UT 84102
Phone: (801) 575-8800
Fax: (801) 531-9850
www: www.vcbo.com

Scale: 1" = 20'

Graphic Scale

DFCM CODE COMPLIANCE STAMP

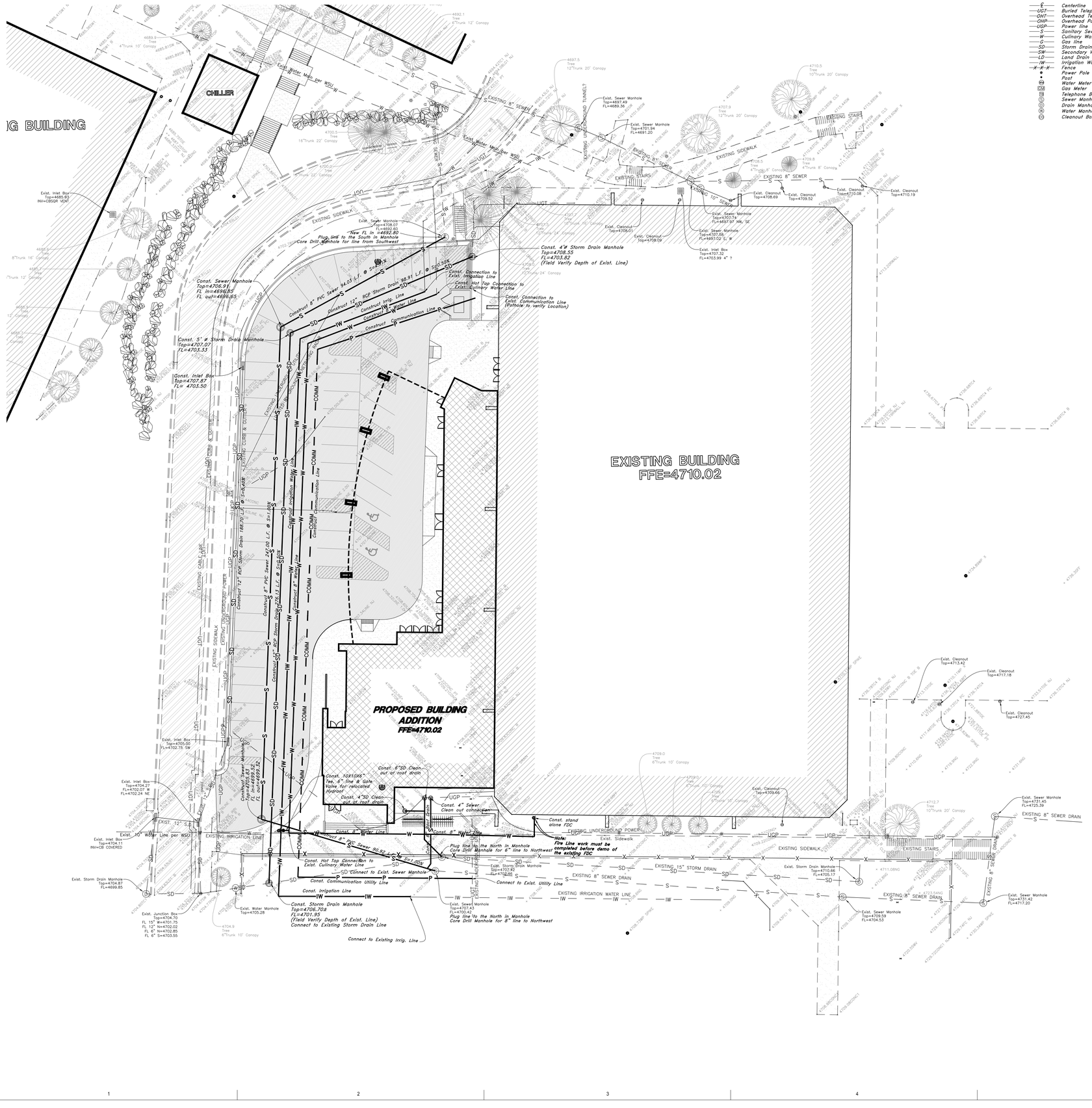
# Student Activity Center
## Stromberg Addition - BID SET
Weber State University
3750 Harrison Blvd. Ogden, UT 84408

| Rev # | Date | Description |
|---|---|---|

Job # 12475
Date 10.03.2012
Owner # DFCM PROJECT
Ins. # #12031810

GRADING & DRAINAGE PLAN

CG101




## LEGEND

| | | | | | |
|---|---|---|---|---|---|
| —℄— | Centerline | TA | Top of Asphalt | C.M.P. | Corrugated Metal Pipe |
| —UGT— | Buried Telephone line | EA | Edge of Asphalt | R.C.P. | Reinforced Concrete Pipe |
| —OHT— | Overhead Telephone line | NG | Natural Ground | CONC | Edge of Concrete |
| —OHP— | Overhead Power line | LG | Lip of Gutter | RWALL | Retaining Wall |
| —UGP— | Power line | SP | Service Pole | SMH | Sewer Manhole |
| —S— | Sanitary Sewer line | LP | Light Pole | WV | Water Valve |
| —W— | Culinary Water line | PP | Power Pole | CB | Catch Basin |
| —G— | Gas line | TP | Telephone Pole | DV | Diversion Box |
| —SD— | Storm Drain line | FH | Fire Hydrant | TC | Top of Curb |
| —SW— | Secondary Waterline | DIT | Flowline of Ditch | SW | Sidewalk |
| —LD— | Land Drain line | TOE | Toe of Slope | GAS | Gas line Marker |
| —IW— | Irrigation Waterline | TOP | Top of Slope | GUY | Guy Wire |
| —X—X— | Fence | CO | Cleanout | BLDG | Building Corner |
| ● | Power Pole | FC | Fence | NG | Natural Ground |
| ✦ | Post | DMH | Drain Manhole | | Fire Hydrant |
| WM | Water Meter | x99.00 | Flowline | | Water Valve |
| GM | Gas Meter | | Spot Elevation | | Light Pole |
| TB | Telephone Box | | Contour | —LP— | Power Pole w/guy |
| S | Sewer Manhole | | Asphalt | | Deciduous Tree |
| SD | Drain Manhole | | Concrete | | Coniferous Tree |
| W | Water Manhole | | Building | | |
| C | Cleanout Box | | Catch Basin | | |

GREAT BASIN ENGINEERING
5746 South 1475 East - Suite 200
Ogden, Utah 84403 Main (801)394-4515
S.L.C.(801)521-0222 FAX 801-392-7544
www.greatbasinengineering.com

Scale: 1" = 20'

20 0 10 20 25 30 35 40

Graphic Scale

**NOTE TO CONTRACTOR:**
1. General Contractor to GPS locate all exposed existing or new utilities before they are buried, and coordinate these locations with WSU.

**General Utility Notes:**
1. Coordinate all utility connections to building with plumbing plans and building contractor.
2. Verify civil topography and location of all existing utilities prior to constructing any new utility lines. Notify Civil Engineer immediately of discrepancies or conflicts prior to any connections being made.
3. All catch basin and inlet box grates are to be bicycle proof.
4. All inlet boxes located in curb and gutter are to be placed parallel to the curb and gutter and set under the frame and grate. Improperly placed boxes will be removed and replaced at no additional cost to the owner. Precast or cast in place boxes are acceptable.
5. Refer to the site electrical plan for details and locations of electrical lines, transformers and light poles.
6. Gas lines, telephone lines, and cable TV lines are not a part of these plans unless otherwise noted.
7. Water meters are to be installed per city standards and specifications. It will be the contractor's responsibility to install all items required.
8. Water lines, valves, fire hydrants, fittings etc. are to be constructed as shown. Contractor is responsible to construct any vertical adjustments necessary to clear sewer, storm drain or other utilities as necessary including valve boxes and hydrant spools to proper grade.
9. Field verify all existing and/or proposed Roof Drain/Roof Drain down spout connections to Storm Water System with Civil, Plumbing & Architectural plans. Notify Engineer of any discrepancies.

**Utility Piping Materials:**
All piping to be installed per manufacturers recommendations. Refer to project specifications for more detailed information regarding materials, installation, etc.

**Culinary Service Laterals**
1. 3/4" to 2" diameter pipe – copper tube ASTM B, Type K, Soft Temper
2. Over 2" diameter pipe – AWWA C-900 Class 150 pipe

**Water Main Lines and Fire Lines**
1. Pipe material as shown on utility plan view or to meet city standards.

**Sanitary Sewer Lines**
1. All sewer piping to be Polyvinyl Chloride (PVC) sewer pipe, ASTM D 3034, Type PSM, SDR 35

**Storm Drain Lines**
1. 10" pipes or smaller – Polyvinyl Chloride (PVC) sewer pipe, ASTM D3034, Type PSM, SDR 35
2. 12" to 21" pipes – Concrete Pipe, ASTM C14, Class III up to 13' of cover. For greater than 13' feet of cover, use reinforced concrete pipe and classes listed below.
3. 24" pipes or larger – Reinforced Concrete Pipe, ASTM C76, Class III up to 13' of cover, Class IV for 13' to 21' of cover, Class V for 21' to 32' of cover, and Special Design for cover greater than 32 feet.

CAUTION NOTICE TO CONTRACTOR
The contractor is specifically cautioned that the location and/or elevation of existing utilities as shown on these plans are based on records of the various utility companies and, where possible, measurements taken in the field. The information is not to be relied on as being exact or complete. The contractor must call the appropriate utility company at least 48 hours before any excavation to request exact field location of utilities. It shall be the responsibility of the contractor to relocate all existing utilities which conflict with the propose improvements shown on the plans.

*PRIVATE ENGINEER'S NOTICE TO CONTRACTORS*
*The Contractor agrees that he shall assume sole and complete responsibility for job site conditions during the course of construction of this project, including safety of all persons and property; that this requirement shall apply continuously and not be limited to normal working hours; and that the contractor shall defend, indemnify, and hold the owner and the engineer harmless from any and all liability, real or alleged, in connection with the performance of work on this project, excepting for liability arising from the sole negligence of the owner or the engineer.*

*ALL CONSTRUCTION TO CONFORM TO CITY STANDARDS AND SPECIFICATIONS IN RIGHT OF WAY*

VCBO
ARCHITECTURE
VALENTINER
CRANE
BRUNJES
ONYON

LICENSED PROFESSIONAL ENGINEER No. 166184 MARK EUGENE BARRETT STATE OF UTAH
10-2-12

VCBO ARCHITECTURE
524 SOUTH 600 EAST
SALT LAKE CITY, UT 84102
Phone: (801) 575-8800
Fax: (801) 531-9850
WWW: www.vcbo.com

DFCM CODE COMPLIANCE STAMP

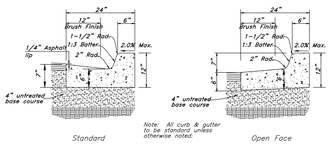
# Student Activity Center
## Stromberg Addition - BID SET
Weber State University
3750 Harrison Blvd. Ogden, UT 84408

| Rev # | Date | Description |
|---|---|---|

Job # 12475
Date 10.03.2012
Owner # DFCM PROJECT
Ins. # #12031810

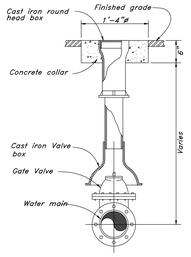
UTILITY PLAN

CU101



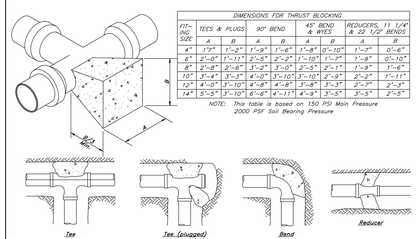

## 17 Typical Section - 24" Curb & Gutter

Not to Scale




## 16 Typical Gate Valve

Not to Scale



DIMENSIONS FOR THRUST BLOCKING

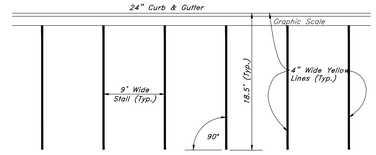
| FITTING SIZE | TEES & PLUGS A | TEES & PLUGS B | 90° BEND A | 90° BEND B | 45° BEND & WYES A | 45° BEND & WYES B | REDUCERS, 11 1/4° & 22 1/2° BENDS A | REDUCERS, 11 1/4° & 22 1/2° BENDS B |
|---|---|---|---|---|---|---|---|---|
| 4" | 1'-7" | 1'-2" | 1'-5" | 1'-4" | 1'-8" | 0'-10" | 1'-3" | 0'-6" |
| 6" | 2'-0" | 1'-11" | 2'-5" | 2'-2" | 1'-10" | 1'-1" | 1'-9" | 0'-10" |
| 8" | 2'-8" | 2'-6" | 3'-2" | 3'-0" | 2'-5" | 2'-1" | 1'-9" | 1'-6" |
| 10" | 3'-4" | 3'-3" | 4'-0" | 3'-10" | 3'-0" | 2'-9" | 2'-3" | 1'-11" |
| 12" | 4'-0" | 3'-10" | 4'-8" | 4'-8" | 3'-8" | 3'-3" | 2'-7" | 2'-3" |
| 14" | 5'-5" | 3'-10" | 6'-6" | 4'-11" | 4'-9" | 3'-5" | 3'-5" | 2'-5" |

NOTE: This table is based on 150 PSI Main Pressure
2000 PSF Soil Bearing Pressure

Tee | Tee (plugged) | Bend | Reducer

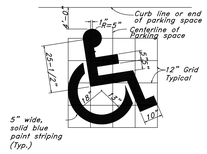
## 13 Thrust Blocking Details

Not to Scale



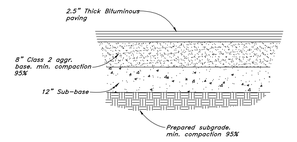

## 10 Typical Parking Lot Striping Plan

Not to Scale



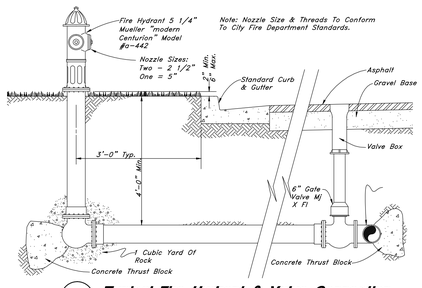

## 7 Handicap Symbol

Not to Scale



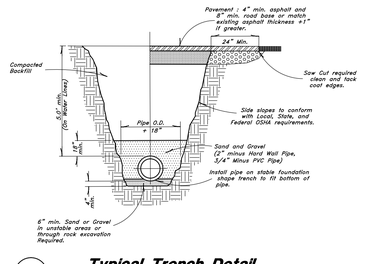

## 4 Typical Bituminous Pavement Section Light Traffic Areas

Not to Scale



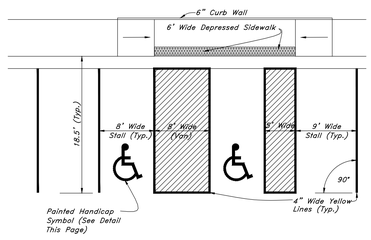

## 15 Typical Fire Hydrant & Valve Connection

Not to Scale



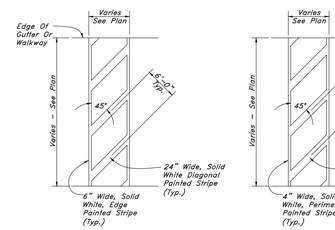

## 12 Typical Trench Detail

Not to Scale



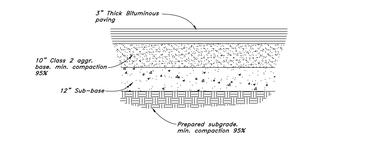

## 9 Typical ADA Parking Striping Plan

Not to Scale



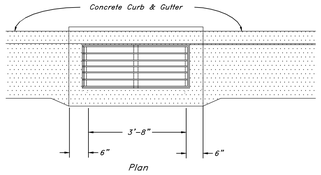

## 6 Striping

Not to Scale



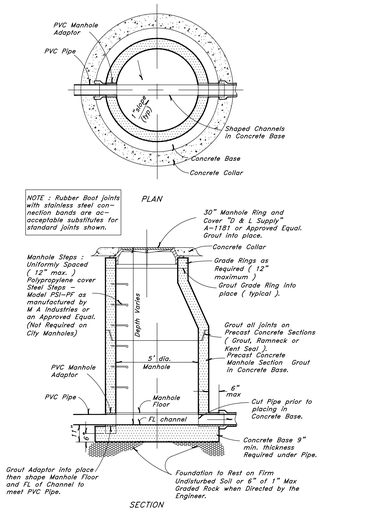

## 3 Typical Bituminous Pavement Section Heavy Duty Drives

Not to Scale



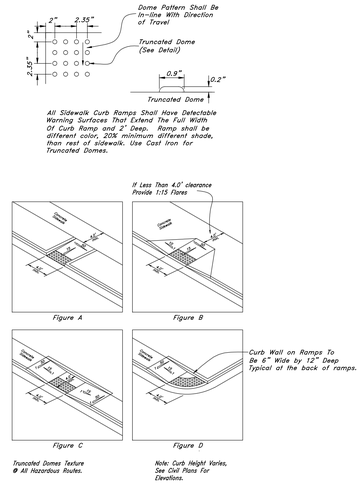

## 14 Typical Inlet Box

in curb & gutter
Not to Scale



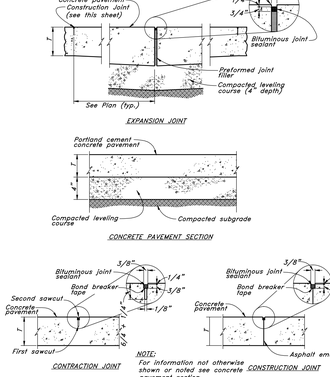

## 11 Typical Manhole Detail

Not to Scale



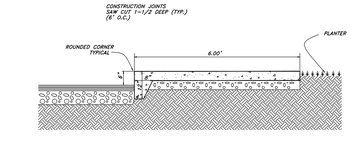

## 8 Typical ADA Ramp Detail

Not to Scale



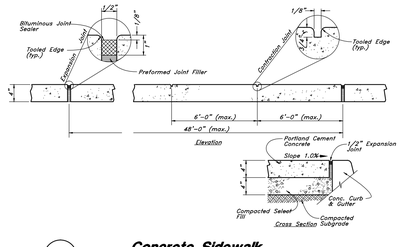

## 5 Portland Cement Concrete Pavement

Not to Scale




## 2 Thickened Edge Walk

Not to Scale




## 1 Concrete Sidewalk

Not to Scale


GREAT BASIN ENGINEERING
5746 South 1475 East - Suite 200
Ogden, Utah 84403 Main (801)394-4515
S.L.C.(801)521-0222 FAX 801-392-7544
www.greatbasinengineering.com

VCBO ARCHITECTURE
VALENTINER
CRANE
BRUNJES
ONYON

LICENSED PROFESSIONAL ENGINEER
No. 166484
MARK EUGENE BARRETT
09-2-12
STATE OF UTAH

VCBO ARCHITECTURE
524 SOUTH 600 EAST
SALT LAKE CITY, UT 84102
Phone: (801) 575-9800
Fax: (801) 531-9850
WWW: www.vcbo.com


DFCM CODE COMPLIANCE STAMP

# Student Activity Center
## Stromberg Addition - BID SET

Weber State University
3750 Harrison Blvd. Ogden, UT 84408

| Rev # | Date | Description |
|---|---|---|

Job # 12475
Date 10.03.2012
Owner # DFCM PROJECT
Ins. # #12031810

CONSTRUCTION DETAILS

CD501

GREAT BASIN ENGINEERING
5746 South 1475 East - Suite 200
Ogden, Utah 84403 Main (801)394-4515
S.L.C.(801)521-0222 FAX 801-392-7544
www.greatbasinengineering.com

VCBO
ARCHITECTURE
VALENTINER
CRANE
BRUNJES
ONYON

LICENSED PROFESSIONAL ENGINEER
No. 166484
MARK EUGENE BARRETT
STATE OF UTAH
09-2-12

VCBO ARCHITECTURE
524 SOUTH 600 EAST
SALT LAKE CITY, UT 84102
Phone: (801) 575-8800
Fax: (801) 531-9850
WWW: www.vcbo.com

DFCM CODE COMPLIANCE STAMP

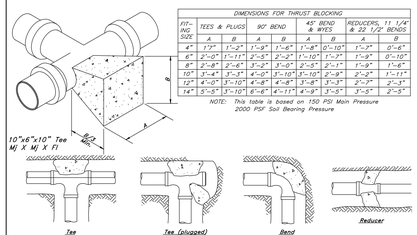
| Rev # | Date | Description |
|---|---|---|

# Student Activity Center
## Stromberg Addition - BID SET
Weber State University
3750 Harrison Blvd. Ogden, UT 84408

Job # 12475
Date 10.03.2012
Owner # DFCM PROJECT
Ins. # #12031810

CONSTRUCTION DETAILS

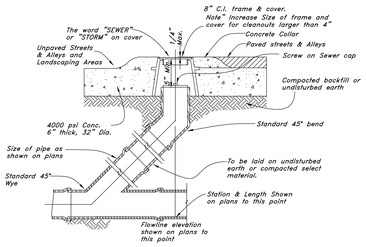
CD502



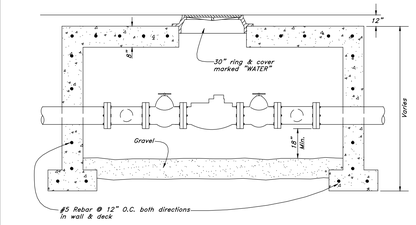

| DIMENSIONS FOR THRUST BLOCKING | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| FITTING SIZE | TEES & PLUGS | | 90° BEND | | 45° BEND & WYES | | REDUCERS, 11 1/4° & 22 1/2° BENDS | |
| | A | B | A | B | A | B | A | B |
| 4" | 1'3" | 1'-3" | 1'-8" | 1'-8" | 0'-10" | 1'-3" | 0'-8" | |
| 6" | 2'-0" | 1'-11" | 2'-5" | 2'-2" | 1'-10" | 1'-7" | 1'-3" | 0'-10" |
| 8" | 2'-8" | 2'-6" | 3'-2" | 3'-0" | 2'-5" | 2'-1" | 1'-9" | 1'-6" |
| 10" | 3'-4" | 3'-2" | 4'-0" | 3'-10" | 3'-0" | 2'-9" | 2'-2" | 1'-11" |
| 12" | 4'-0" | 3'-10" | 4'-8" | 4'-8" | 3'-8" | 3'-3" | 2'-7" | 2'-3" |
| 14" | 5'-5" | 3'-10" | 6'-6" | 4'-11" | 4'-9" | 3'-5" | 3'-5" | 2'-5" |

NOTE: This table is based on 150 PSI Main Pressure
2000 PSF Soil Bearing Pressure

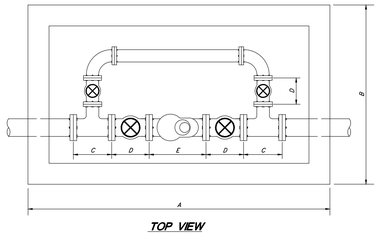
**4 Thrust Blocking Details**
Not to Scale




**2 Sewer, Storm, and Roof Drain Cleanout Detail**
Not to Scale



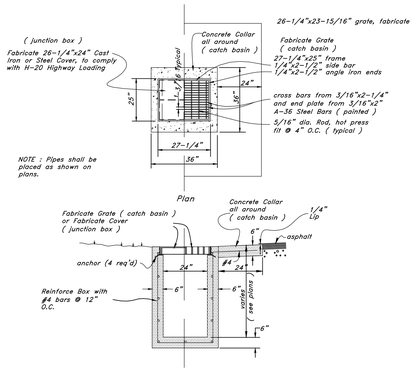

ELEVATION VIEW



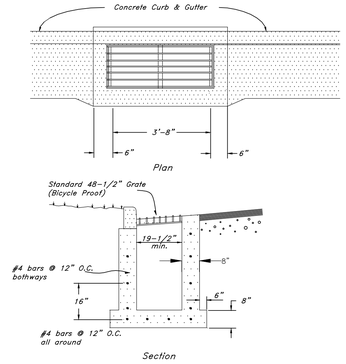

TOP VIEW

| ITEM | | SIZE | LENGTH | SIZE | LENGTH |
|---|---|---|---|---|---|
| A | Box (Length) | 4" | 100" | 6" | 106" |
| B | Box (Width) | 4" | 76" | 6" | 78" |
| C | Tee | 4" | 13" | 6" | 16" |
| D | Gate Valve | 4" | 9" | 6" | 11" |
| E | Compound Meter | 4" | 20" | 6" | 24" |

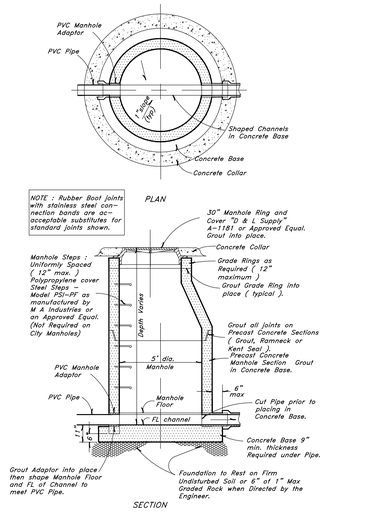
**6 Meter Station Detail**
METERSTA
Not to Scale



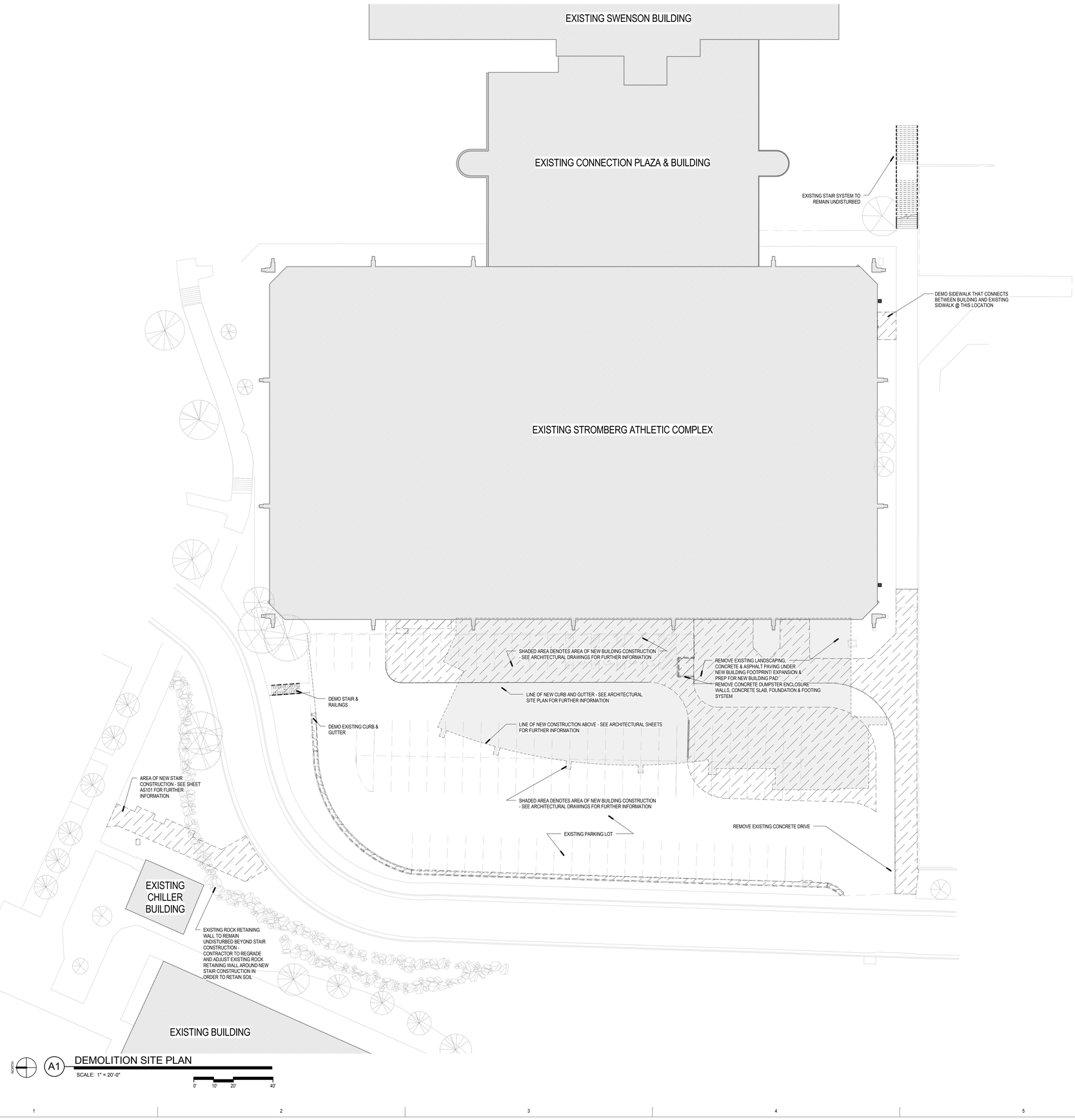

**5 Catch Basin/Junction Box**
Not to Scale




**3 Typical Inlet Box**
in curb & gutter
Not to Scale




**1 Typical Manhole Detail**
Not to Scale




A1 DEMOLITION SITE PLAN

SCALE: 1" = 20'-0"

## GENERAL DEMOLITION NOTES

1. THE CONTRACTOR MUST FIELD VERIFY ALL DIMENSIONS AND CONDITIONS INCLUDING EXISTING UTILITIES PRIOR TO BIDDING AS THE LOCATIONS SHOWN IN THE DOCUMENTS ARE APPROXIMATED. ALL VARIANCES NOT SHOWN IN THE DRAWINGS SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT PRIOR TO BID.
2. CONTRACTOR TO COORDINATE WITH ELECTRICAL AND MECHANICAL PLANS FOR LOCATIONS OF ALL EXISTING AND NEW EQUIPMENT, SYSTEMS, AND DEVICES.
3. AS SOME DEMOLITION WORK WILL BE SPECIFIC TO DIVISION 22, 23, 26, THE CONTRACTOR SHALL CROSS REFERENCE WITH ELECTRICAL AND MECHANICAL PLANS FOR ADDITIONAL DEMOLITION WHICH IS REQUIRED, BUT NOT REFLECTED ON ARCHITECTURAL DRAWINGS.
4. CONTRACTOR SHALL TAKE ALL PRECAUTIONS NECESSARY TO PROTECT THE EXISTING STRUCTURE, FINISHES, AND SITE ELEMENTS NOT CALLED FOR DEMOLITION DURING REMODEL OF WALLS, FLOORING MATERIAL, CASEWORK, DOORS, WINDOWS, CEILINGS, AND SITE.
5. CONTRACTOR MUST COORDINATE WORK HOURS WITH OWNER OR PROJECT REPRESENTATIVE PRIOR TO COMMENCEMENT OF WORK. APPROVAL OF PROPOSED SCHEDULE IS REQUIRED PRIOR TO COMMENCING ANY WORK. CONSTRUCTION RELATED ACTIVITIES SHALL NOT OBSTRUCT THE PROCESS OF DAY TO DAY WORK ON SITE UNLESS SPECIFICALLY APPROVED IN ADVANCE BY THE PROJECT REPRESENTATIVE. AFTER HOURS OR WEEKEND WORK SHALL BE EMPLOYED TO AVOID ADVERSE IMPACTS TO TENANT EMPLOYEES.
6. ALL EXISTING INTERIOR FINISHES, MATERIALS, STRUCTURE, SYSTEMS, LANDSCAPING, AND SITE FEATURES, ETC., NOT IDENTIFIED FOR DEMOLITION THAT ARE DAMAGED DURING THE PROCESS OF CONSTRUCTION SHALL BE RESTORED TO THEIR ORIGINAL CONDITION OR REPLACED TO MATCH AT THE CONTRACTORS EXPENSE.
7. ALL EXISTING FIRE RATINGS, AND ASSOCIATED FIRE PROTECTION SYSTEMS (I.E. FIRE SPRINKLERS AND FIRE ALARM SYSTEMS) ARE TO BE MAINTAINED THROUGHOUT CONSTRUCTION IN OCCUPIED SPACES. ANY INTERRUPTION TO THESE SYSTEMS SHALL BE COORDINATED WITH THE OWNER AND FIRE MARSHALS OFFICE. CONTRACTOR IS RESPONSIBLE FOR ANY FIRE WATCH REQUIREMENTS ASSOCIATED WITH INTERRUPTIONS TO THESE EXISTING SYSTEMS.
8. THE MAINTENANCE OF ADEQUATE FIRE EGRESS FOR OCCUPANTS IN THE EXISTING BUILDING SHALL BE COORDINATED WITH THE OWNER AND FIRE MARSHALS OFFICE. CONTRACTOR SHALL PROVIDE ALL NECESSARY TEMPORARY WALLS OR ENCLOSURES,
EMERGENCY LIGHTS, ETC., FOR THE DURATION OF THE CONSTRUCTION.
9. CONTRACTOR SHALL REMOVE AND DISPOSE OF ALL FLOORING, WALLS, & CEILING SYSTEMS AS SHOWN ON THE DRAWINGS.
10. CONTRACTOR TO MAINTAIN EXISTING FIRE RATED ELEMENTS IN BUILDING - REPAIR IF DAMAGED.
11. CONTRACTOR TO MAINTAIN ACCESS TO STAIRS DURING CONSTRUCTION. TYP.
12. ALL ADJACENT SURFACES DAMAGED DUE TO WORK UNDER THIS CONTRACT SHALL BE PATCHED & FINISHED TO MATCH EXISTING ADJACENT SURFACES.
13. CONTRACTOR TO PROVIDE DUSTPROOF ENCLOSURES AT PERIMETER OF AREAS OF CONSTRUCTION & DEMOLITION FOR PROTECTION OF ADJACENT SPACES.
14. PATCH & LEVEL EXISTING CONCRETE SLABS AS REQUIRED FOR NEW FINISHES WITH FLOOR LEVELING COMPOUND AS APPROVED BY ARCHITECT.
15. THE GENERAL CONTRACTOR SHALL BRING TO THE ATTENTION OF THE ARCHITECT FOR IMMEDIATE RESOLUTION, ANY CODE VIOLATIONS, INCORRECT CONSTRUCTIONS OR SAFETY PROBLEMS THAT ARE EXISTING FIELD CONDITIONS.
16. THE GENERAL CONTRACTOR IS RESPONSIBLE TO COORDINATE SCOPE IN REMODEL AND NEW CONSTRUCTION AS INDICATED ON ALL ARCHITECTURAL, STRUCTURAL, ELECTRICAL AND MECHANICAL SHEETS AND COORDINATE AND PROVIDE DEMOLITION AS NEEDED. WORK AS DESCRIBED FOR REMODEL OR ADDITION THAT IS IN CONFLICT WITH EXISTING CONDITION IS TO BE BROUGHT TO THE ATTENTION OF THE ARCHITECT PRIOR TO DEMOLITION.

## SITE DEMOLITION LEGEND

- DASHED LINES DENOTES ITEM(S) TO BE DEMOLISHED
- SHADED AREA DENOTES EXTENTS OF HARDSCAPE AND LANDSCAPE DEMOLITION
- AREA TO REMAIN UNDISTURBED DURING CONSTRUCTION PHASE
- AREA OF NEW CONSTRUCTION AND NEW CONSTRUCTION ABOVE

VCBO
ARCHITECTURE
VALENTINER
CRANE
BRUNJES
ONYON

VCBO ARCHITECTURE
524 SOUTH 600 EAST
SALT LAKE CITY, UT 84102
Phone: (801) 575-8800
Fax: (801) 531-9850
www: www.vcbo.com

LICENSED ARCHITECT
No. 13392
BRENT R. TIPPETS
10-2-12
STATE OF UTAH

DFCM CODE COMPLIANCE STAMP

# Student Activity Center
## Stromberg Addition - BID SET
Weber State University
3750 Harrison Blvd. Ogden, UT 84408

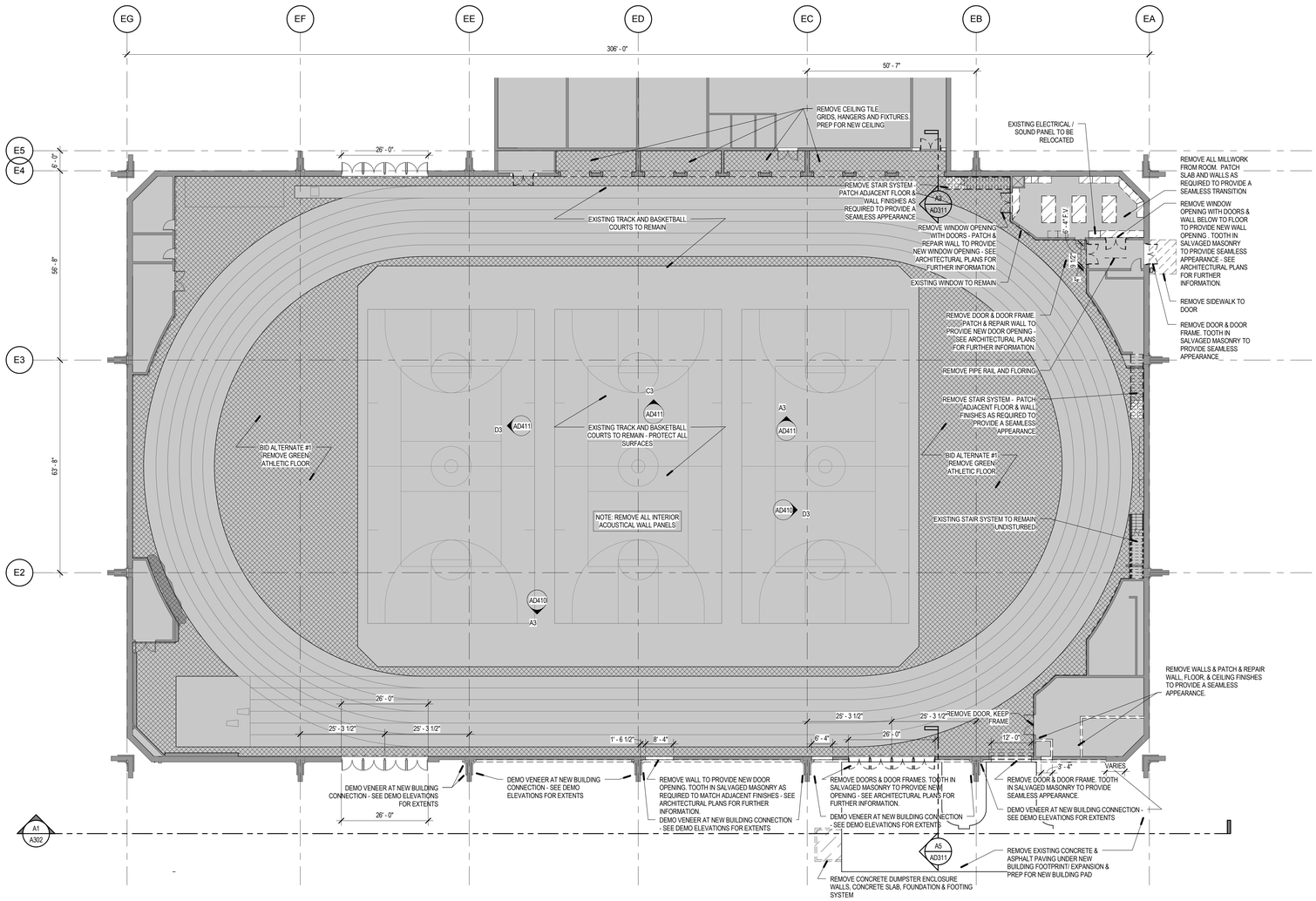
| Rev # | Date | Description |
|---|---|---|

Job # 12475
CAD File
Drawn Author Checked Checker
Date 10.03.2012
Owner # DFCM #12031810

DEMOLITION SITE PLAN

ADS101

10/3/2012 1:12:57 PM




NORTH

A2 FIRST FLOOR DEMOLITION FLOOR PLAN

SCALE: 1/16" = 1'-0"

0' 8' 16' 32' 48'

## GENERAL DEMOLITION NOTES

1. THE CONTRACTOR MUST FIELD VERIFY ALL DIMENSIONS AND CONDITIONS INCLUDING EXISTING UTILITIES PRIOR TO BIDDING AS THE LOCATIONS SHOWN IN THE DOCUMENTS ARE APPROXIMATED. ALL VARIANCES NOT SHOWN IN THE DRAWINGS SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT PRIOR TO BID.
2. CONTRACTOR TO COORDINATE WITH ELECTRICAL AND MECHANICAL PLANS FOR LOCATIONS OF ALL EXISTING AND NEW EQUIPMENT, SYSTEMS, AND DEVICES.
3. AS SOME DEMOLITION WORK WILL BE SPECIFIC TO DIVISION 22, 23, 26, THE CONTRACTOR SHALL CROSS REFERENCE WITH ELECTRICAL AND MECHANICAL PLANS FOR ADDITIONAL DEMOLITION WHICH IS REQUIRED, BUT NOT REFLECTED ON ARCHITECTURAL DRAWINGS.
4. CONTRACTOR SHALL TAKE ALL PRECAUTIONS NECESSARY TO PROTECT THE EXISTING STRUCTURE, FINISHES, AND SITE ELEMENTS NOT CALLED FOR DEMOLITION DURING REMODEL OF WALLS, FLOORING MATERIAL, CASEWORK, DOORS, WINDOWS, CEILINGS, AND SITE.
5. CONTRACTOR MUST COORDINATE WORK HOURS WITH OWNER OR PROJECT REPRESENTATIVE PRIOR TO COMMENCEMENT OF WORK. APPROVAL OF PROPOSED SCHEDULE IS REQUIRED PRIOR TO COMMENCING ANY WORK. CONSTRUCTION RELATED ACTIVITIES SHALL NOT OBSTRUCT THE PROCESS OF DAY TO DAY WORK ON SITE UNLESS SPECIFICALLY APPROVED IN ADVANCE BY THE PROJECT REPRESENTATIVE. AFTER HOURS OR WEEKEND WORK SHALL BE EMPLOYED TO AVOID ADVERSE IMPACTS TO TENANT EMPLOYEES.
6. ALL EXISTING INTERIOR FINISHES, MATERIALS, STRUCTURE, SYSTEMS, LANDSCAPING, AND SITE FEATURES, ETC., NOT IDENTIFIED FOR DEMOLITION THAT ARE DAMAGED DURING THE PROCESS OF CONSTRUCTION SHALL BE RESTORED TO THEIR ORIGINAL CONDITION OR REPLACED TO MATCH AT THE CONTRACTORS EXPENSE.
7. ALL EXISTING FIRE RATINGS, AND ASSOCIATED FIRE PROTECTION SYSTEMS (I.E. FIRE SPRINKLERS AND FIRE ALARM SYSTEMS) ARE TO BE MAINTAINED THROUGHOUT CONSTRUCTION IN OCCUPIED SPACES. ANY INTERRUPTION TO THESE SYSTEMS SHALL BE COORDINATED WITH THE OWNER AND FIRE MARSHALS OFFICE. CONTRACTOR IS RESPONSIBLE FOR ANY FIRE WATCH REQUIREMENTS ASSOCIATED WITH INTERRUPTIONS TO THESE EXISTING SYSTEMS.
8. THE MAINTENANCE OF ADEQUATE FIRE EGRESS FOR OCCUPANTS IN THE EXISTING BUILDING SHALL BE COORDINATED WITH THE OWNER AND FIRE MARSHALS OFFICE. CONTRACTOR SHALL PROVIDE ALL NECESSARY TEMPORARY WALLS OR ENCLOSURES, EMERGENCY LIGHTS, ETC., FOR THE DURATION OF THE CONSTRUCTION.
9. CONTRACTOR SHALL REMOVE AND DISPOSE OF ALL FLOORING, WALLS, & CEILING SYSTEMS AS SHOWN ON THE DRAWINGS.
10. CONTRACTOR TO MAINTAIN EXISTING FIRE RATED ELEMENTS IN BUILDING - REPAIR IF DAMAGED.
11. CONTRACTOR TO MAINTAIN ACCESS TO STAIRS DURING CONSTRUCTION. TYP.
12. ALL ADJACENT SURFACES DAMAGED DUE TO WORK UNDER THIS CONTRACT SHALL BE PATCHED & FINISHED TO MATCH EXISTING ADJACENT SURFACES.
13. CONTRACTOR TO PROVIDE DUSTPROOF ENCLOSURES AT PERIMETER OF AREAS OF CONSTRUCTION & DEMOLITION FOR PROTECTION OF ADJACENT SPACES.
14. PATCH & LEVEL EXISTING CONCRETE SLABS AS REQUIRED FOR NEW FINISHES WITH FLOOR LEVELING COMPOUND AS APPROVED BY ARCHITECT.
15. THE GENERAL CONTRACTOR SHALL BRING TO THE ATTENTION OF THE ARCHITECT FOR IMMEDIATE RESOLUTION, ANY CODE VIOLATIONS, INCORRECT CONSTRUCTIONS OR SAFETY PROBLEMS THAT ARE EXISTING FIELD CONDITIONS.
16. THE GENERAL CONTRACTOR IS RESPONSIBLE TO COORDINATE SCOPE IN REMODEL AND NEW CONSTRUCTION AS INDICATED ON ALL ARCHITECTURAL, STRUCTURAL, ELECTRICAL AND MECHANICAL SHEETS AND COORDINATE AND PROVIDE DEMOLITION AS NEEDED. WORK AS DESCRIBED FOR REMODEL OR ADDITION THAT IS IN CONFLICT WITH EXISTING CONDITION IS TO BE BROUGHT TO THE ATTENTION OF THE ARCHITECT PRIOR TO DEMOLITION.

## DEMOLITION LEGEND

- DASHED LINES DENOTES ITEM(S) TO BE DEMOLISHED
- SHADED AREA DENOTES EXTENTS OF STRUCTURAL AND FLOOR PLAN DEMOLITION
- AREA TO REMAIN UNDISTURBED DURING CONSTRUCTION PHASE
- BID ALTERNATE #1: REMOVE AND REPLACE GREEN PORTIONS OF ATHLETIC FLOOR. REPLACE WITH RUBBER ATHLETIC FLOORING.

## KEYED NOTES

VCBO
ARCHITECTURE
VALENTINER
CRANE
BRUNJES
ONYON

REGISTERED ARCHITECT
STATE OF UTAH
5139
BRENT R. TIPPETS
10-2-12

VCBO ARCHITECTURE
524 SOUTH 600 EAST
SALT LAKE CITY, UT 84102
Phone: (801) 575-8800
Fax: (801) 531-9850
www: www.vcbo.com

DFCM CODE COMPLIANCE STAMP

# Student Activity Center
## Stromberg Addition - BID SET
Weber State University
3750 Harrison Blvd. Ogden, UT 84408

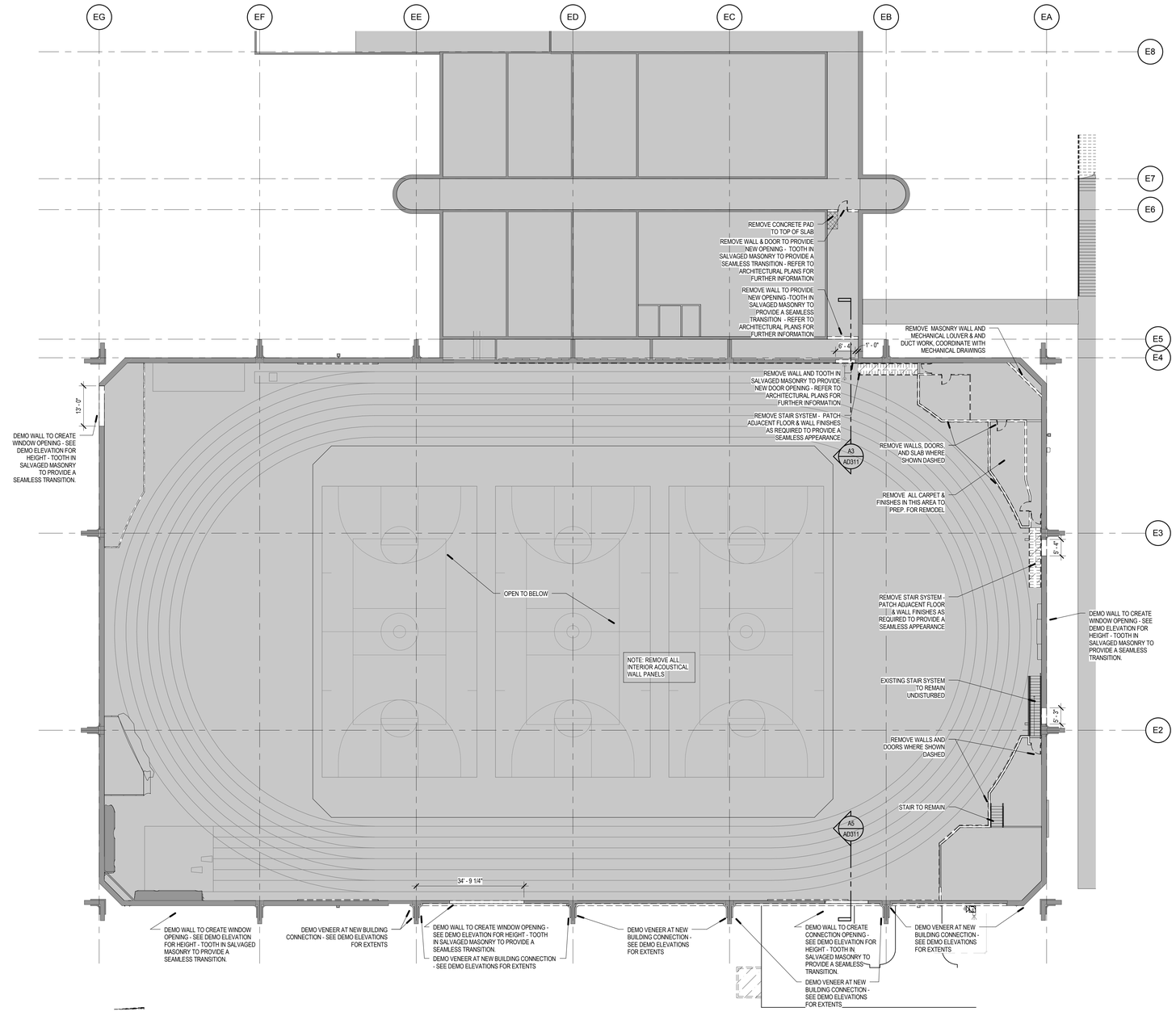
| Rev # | Date | Description |
|---|---|---|

Job # 12475
CAD File
Drawn Author Checked Checker
Date 10.03.2012
Owner # DFCM #12031810

DEMOLITION PLAN

AD101

10/3/2012 1:12:07 PM




A1 LEVEL 02 DEMOLITION PLAN

SCALE: 1/16" = 1'-0"

0' 8' 16' 32' 48'

## GENERAL DEMOLITION NOTES

1. THE CONTRACTOR MUST FIELD VERIFY ALL DIMENSIONS AND CONDITIONS INCLUDING EXISTING UTILITIES PRIOR TO BIDDING AS THE LOCATIONS SHOWN IN THE DOCUMENTS ARE APPROXIMATED. ALL VARIANCES NOT SHOWN IN THE DRAWINGS SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT PRIOR TO BID.
2. CONTRACTOR TO COORDINATE WITH ELECTRICAL AND MECHANICAL PLANS FOR LOCATIONS OF ALL EXISTING AND NEW EQUIPMENT, SYSTEMS, AND DEVICES.
3. AS SOME DEMOLITION WORK WILL BE SPECIFIC TO DIVISION 22, 23, 26, THE CONTRACTOR SHALL CROSS REFERENCE WITH ELECTRICAL AND MECHANICAL PLANS FOR ADDITIONAL DEMOLITION WHICH IS REQUIRED, BUT NOT REFLECTED ON ARCHITECTURAL DRAWINGS.
4. CONTRACTOR SHALL TAKE ALL PRECAUTIONS NECESSARY TO PROTECT THE EXISTING STRUCTURE, FINISHES, AND SITE ELEMENTS NOT CALLED FOR DEMOLITION DURING REMODEL OF WALLS, FLOORING MATERIAL, CASEWORK, DOORS, WINDOWS, CEILINGS, AND SITE.
5. CONTRACTOR MUST COORDINATE WORK HOURS WITH OWNER OR PROJECT REPRESENTATIVE PRIOR TO COMMENCEMENT OF WORK. APPROVAL OF PROPOSED SCHEDULE IS REQUIRED PRIOR TO COMMENCING ANY WORK. CONSTRUCTION RELATED ACTIVITIES SHALL NOT OBSTRUCT THE PROCESS OF DAY TO DAY WORK ON SITE UNLESS SPECIFICALLY APPROVED IN ADVANCE BY THE PROJECT REPRESENTATIVE. AFTER HOURS OR WEEKEND WORK SHALL BE EMPLOYED TO AVOID ADVERSE IMPACTS TO TENANT EMPLOYEES.
6. ALL EXISTING INTERIOR FINISHES, MATERIALS, STRUCTURE, SYSTEMS, LANDSCAPING, AND SITE FEATURES, ETC., NOT IDENTIFIED FOR DEMOLITION THAT ARE DAMAGED DURING THE PROCESS OF CONSTRUCTION SHALL BE RESTORED TO THEIR ORIGINAL CONDITION OR REPLACED TO MATCH AT THE CONTRACTORS EXPENSE.
7. ALL EXISTING FIRE RATINGS, AND ASSOCIATED FIRE PROTECTION SYSTEMS (I.E. FIRE SPRINKLERS AND FIRE ALARM SYSTEMS) ARE TO BE MAINTAINED THROUGHOUT CONSTRUCTION IN OCCUPIED SPACES. ANY INTERRUPTION TO THESE SYSTEMS SHALL BE COORDINATED WITH THE OWNER AND FIRE MARSHALS OFFICE. CONTRACTOR IS RESPONSIBLE FOR ANY FIRE WATCH REQUIREMENTS ASSOCIATED WITH INTERRUPTIONS TO THESE EXISTING SYSTEMS.
8. THE MAINTENANCE OF ADEQUATE FIRE EGRESS FOR OCCUPANTS IN THE EXISTING BUILDING SHALL BE COORDINATED WITH THE OWNER AND FIRE MARSHALS OFFICE. CONTRACTOR SHALL PROVIDE ALL NECESSARY TEMPORARY WALLS OR ENCLOSURES, EMERGENCY LIGHTS, ETC., FOR THE DURATION OF THE CONSTRUCTION.
9. CONTRACTOR SHALL REMOVE AND DISPOSE OF ALL FLOORING, WALLS, & CEILING SYSTEMS AS SHOWN ON THE DRAWINGS.
10. CONTRACTOR TO MAINTAIN EXISTING FIRE RATED ELEMENTS IN BUILDING - REPAIR IF DAMAGED.
11. CONTRACTOR TO MAINTAIN ACCESS TO STAIRS DURING CONSTRUCTION. TYP.
12. ALL ADJACENT SURFACES DAMAGED DUE TO WORK UNDER THIS CONTRACT SHALL BE PATCHED & FINISHED TO MATCH EXISTING ADJACENT SURFACES.
13. CONTRACTOR TO PROVIDE DUSTPROF ENCLOSURES AT PERIMETER OF AREAS OF CONSTRUCTION & DEMOLITION FOR PROTECTION OF ADJACENT SPACES.
14. PATCH & LEVEL EXISTING CONCRETE SLABS AS REQUIRED FOR NEW FINISHES WITH FLOOR LEVELING COMPOUND AS APPROVED BY ARCHITECT.
15. THE GENERAL CONTRACTOR SHALL BRING TO THE ATTENTION OF THE ARCHITECT FOR IMMEDIATE RESOLUTION, ANY CODE VIOLATIONS, INCORRECT CONSTRUCTIONS OR SAFETY PROBLEMS THAT ARE EXISTING FIELD CONDITIONS.
16. THE GENERAL CONTRACTOR IS RESPONSIBLE TO COORDINATE SCOPE IN REMODEL AND NEW CONSTRUCTION AS INDICATED ON ALL ARCHITECTURAL, STRUCTURAL, ELECTRICAL AND MECHANICAL SHEETS AND COORDINATE AND PROVIDE DEMOLITION AS NEEDED. WORK AS DESCRIBED FOR REMODEL OR ADDITION THAT IS IN CONFLICT WITH EXISTING CONDITION IS TO BE BROUGHT TO THE ATTENTION OF THE ARCHITECT PRIOR TO DEMOLITION.

## DEMOLITION LEGEND

- DASHED LINES DENOTES ITEM(S) TO BE DEMOLISHED
- SHADED AREA DENOTES EXTENTS OF STRUCTURAL AND FLOOR PLAN DEMOLITION
- AREA TO REMAIN UNDISTURBED DURING CONSTRUCTION PHASE
- BID ALTERNATE #1: REMOVE AND REPLACE GREEN PORTIONS OF ATHLETIC FLOOR. REPLACE WITH RUBBER ATHLETIC FLOORING.

## KEYED NOTES

VCBO
ARCHITECTURE
VALENTINER
CRANE
BRUNJES
ONYON

REGISTERED ARCHITECT
5339
BRENT R. TIPPETS
10-2-12
STATE OF UTAH

VCBO ARCHITECTURE
524 SOUTH 600 EAST
SALT LAKE CITY, UT 84102
Phone: (801) 575-8800
Fax: (801) 531-9850
www: www.vcbo.com

DFCM CODE COMPLIANCE STAMP

# Student Activity Center
## Stromberg Addition - BID SET
Weber State University
3750 Harrison Blvd. Ogden, UT 84408

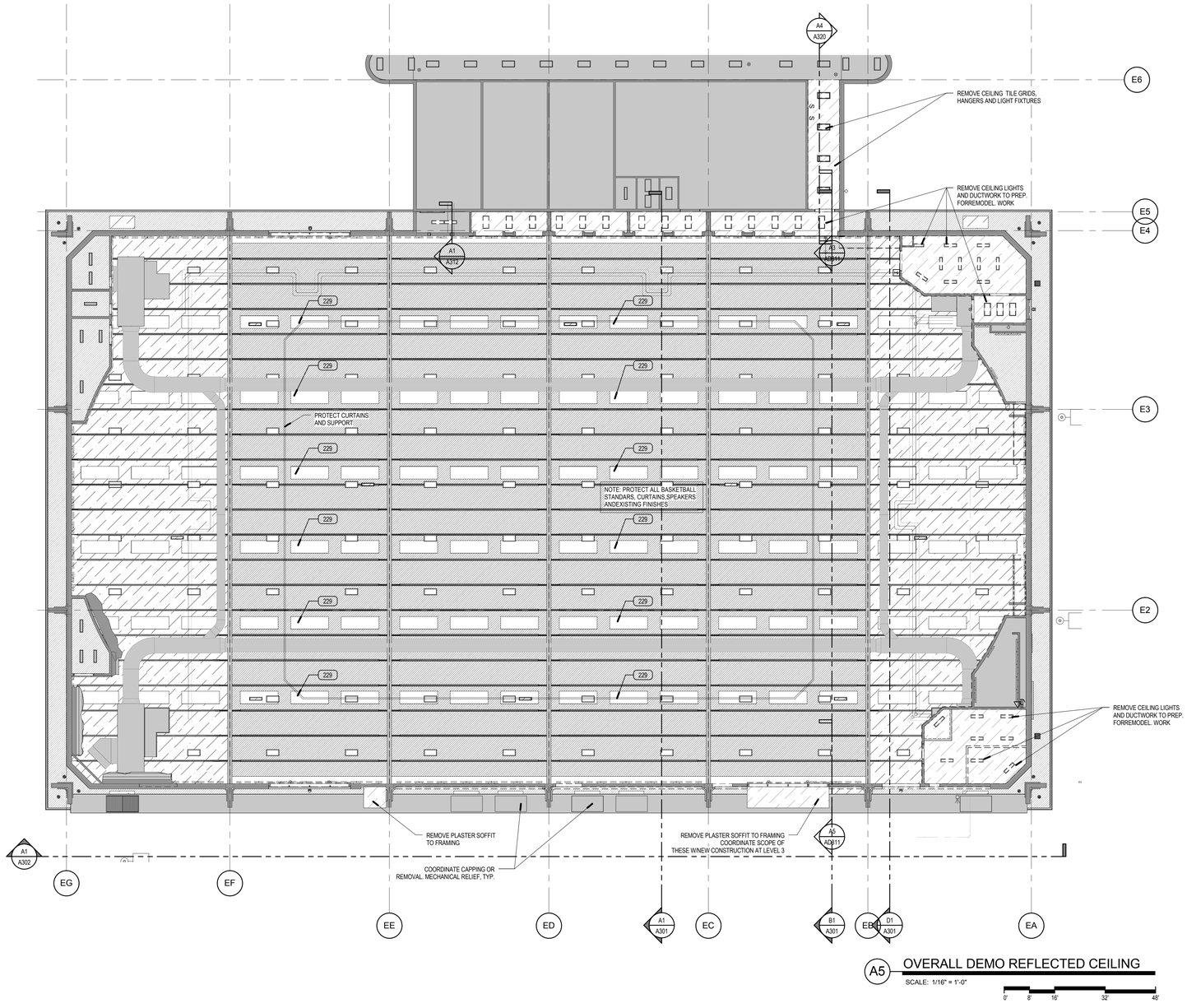
| Rev # | Date | Description |
|---|---|---|

Job # 12475
CAD File
Drawn Author Checked Checker
Date 10.03.2012
Owner # DFCM #12031810

DEMOLITION PLAN

AD102

10/3/2012 1:12:12 PM




A5 OVERALL DEMO REFLECTED CEILING

SCALE: 1/16" = 1'-0"

0' 8' 16' 32' 48'

## GENERAL DEMOLITION NOTES

1. THE CONTRACTOR MUST FIELD VERIFY ALL DIMENSIONS AND CONDITIONS INCLUDING EXISTING UTILITIES PRIOR TO BIDDING AS THE LOCATIONS SHOWN IN THE DOCUMENTS ARE APPROXIMATED. ALL VARIANCES NOT SHOWN IN THE DRAWINGS SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT PRIOR TO BID.
2. CONTRACTOR TO COORDINATE WITH ELECTRICAL AND MECHANICAL PLANS FOR LOCATIONS OF ALL EXISTING AND NEW EQUIPMENT, SYSTEMS, AND DEVICES.
3. AS SOME DEMOLITION WORK WILL BE SPECIFIC TO DIVISION 22, 23, 26, THE CONTRACTOR SHALL CROSS REFERENCE WITH ELECTRICAL AND MECHANICAL PLANS FOR ADDITIONAL DEMOLITION WHICH IS REQUIRED, BUT NOT REFLECTED ON ARCHITECTURAL DRAWINGS.
4. CONTRACTOR SHALL TAKE ALL PRECAUTIONS NECESSARY TO PROTECT THE EXISTING STRUCTURE, FINISHES, AND SITE ELEMENTS NOT CALLED FOR DEMOLITION DURING REMODEL OF WALLS, FLOORING MATERIAL, CASEWORK, DOORS, WINDOWS, CEILINGS, AND SITE.
5. CONTRACTOR MUST COORDINATE WORK HOURS WITH OWNER OR PROJECT REPRESENTATIVE PRIOR TO COMMENCEMENT OF WORK. APPROVAL OF PROPOSED SCHEDULE IS REQUIRED PRIOR TO COMMENCING ANY WORK. CONSTRUCTION RELATED ACTIVITIES SHALL NOT OBSTRUCT THE PROCESS OF DAY TO DAY WORK ON SITE UNLESS SPECIFICALLY APPROVED IN ADVANCE BY THE PROJECT REPRESENTATIVE. AFTER HOURS OR WEEKEND WORK SHALL BE EMPLOYED TO AVOID ADVERSE IMPACTS TO TENANT EMPLOYEES.
6. ALL EXISTING INTERIOR FINISHES, MATERIALS, STRUCTURE, SYSTEMS, LANDSCAPING, AND SITE FEATURES, ETC., NOT IDENTIFIED FOR DEMOLITION THAT ARE DAMAGED DURING THE PROCESS OF CONSTRUCTION SHALL BE RESTORED TO THEIR ORIGINAL CONDITION OR REPLACED TO MATCH AT THE CONTRACTORS EXPENSE.
7. ALL EXISTING FIRE RATINGS, AND ASSOCIATED FIRE PROTECTION SYSTEMS (I.E. FIRE SPRINKLERS AND FIRE ALARM SYSTEMS) ARE TO BE MAINTAINED THROUGHOUT CONSTRUCTION IN OCCUPIED SPACES. ANY INTERRUPTION TO THESE SYSTEMS SHALL BE COORDINATED WITH THE OWNER AND FIRE MARSHALS OFFICE. CONTRACTOR IS RESPONSIBLE FOR ANY FIRE WATCH REQUIREMENTS ASSOCIATED WITH INTERRUPTIONS TO THESE EXISTING SYSTEMS.
8. THE MAINTENANCE OF ADEQUATE FIRE EGRESS FOR OCCUPANTS IN THE EXISTING BUILDING SHALL BE COORDINATED WITH THE OWNER AND FIRE MARSHALS OFFICE. CONTRACTOR SHALL PROVIDE ALL NECESSARY TEMPORARY WALLS OR ENCLOSURES.
   EMERGENCY LIGHTS, ETC., FOR THE DURATION OF THE CONSTRUCTION.
9. CONTRACTOR SHALL REMOVE AND DISPOSE OF ALL FLOORING, WALLS, & CEILING SYSTEMS AS SHOWN ON THE DRAWINGS.
10. CONTRACTOR TO MAINTAIN EXISTING FIRE RATED ELEMENTS IN BUILDING - REPAIR IF DAMAGED.
11. CONTRACTOR TO MAINTAIN ACCESS TO STAIRS DURING CONSTRUCTION. TYP.
12. ALL ADJACENT SURFACES DAMAGED DUE TO WORK UNDER THIS CONTRACT SHALL BE PATCHED & FINISHED TO MATCH EXISTING ADJACENT SURFACES.
13. CONTRACTOR TO PROVIDE DUSTPROOF ENCLOSURES AT PERIMETER OF AREAS OF CONSTRUCTION & DEMOLITION FOR PROTECTION OF ADJACENT SPACES.
14. PATCH & LEVEL EXISTING CONCRETE SLABS AS REQUIRED FOR NEW FINISHES WITH FLOOR LEVELING COMPOUND AS APPROVED BY ARCHITECT.
15. THE GENERAL CONTRACTOR SHALL BRING TO THE ATTENTION OF THE ARCHITECT FOR IMMEDIATE RESOLUTION, ANY CODE VIOLATIONS, INCORRECT CONSTRUCTIONS OR SAFETY PROBLEMS THAT ARE EXISTING FIELD CONDITIONS.
16. THE GENERAL CONTRACTOR IS RESPONSIBLE TO COORDINATE SCOPE IN REMODEL AND NEW CONSTRUCTION AS INDICATED ON ALL ARCHITECTURAL, STRUCTURAL, ELECTRICAL AND MECHANICAL SHEETS AND COORDINATE AND PROVIDE DEMOLITION AS NEEDED. WORK AS DESCRIBED FOR REMODEL OR ADDITION THAT IS IN CONFLICT WITH EXISTING CONDITION IS TO BE BROUGHT TO THE ATTENTION OF THE ARCHITECT PRIOR TO DEMOLITION.

## DEMOLITION LEGEND

- DASHED LINES DENOTES ITEM(S) TO BE DEMOLISHED
- SHADED AREA DENOTES EXTENTS OF STRUCTURAL AND FLOOR PLAN DEMOLITION
- AREA TO REMAIN UNDISTURBED DURING CONSTRUCTION PHASE
- BID ALTERNATE #1: REMOVE AND REPLACE GREEN PORTIONS OF ATHLETIC FLOOR. REPLACE WITH RUBBER ATHLETIC FLOORING.

## 229 KEYED NOTES.

229 PANEL TO BE REMOVED AND REINSTALLED. REPLACE ANY DAMAGED PANELS AS NEEDED

VCBO
ARCHITECTURE
VALENTINER
CRANE
BRUNJES
ONYON

VCBO ARCHITECTURE
524 SOUTH 600 EAST
SALT LAKE CITY, UT 84102
Phone: (801) 575-8800
Fax: (801) 531-9850
WWW: www.vcbo.com

DFCM CODE COMPLIANCE STAMP

# Student Activity Center
## Stromberg Addition - BID SET
Weber State University
3750 Harrison Blvd. Ogden, UT 84408

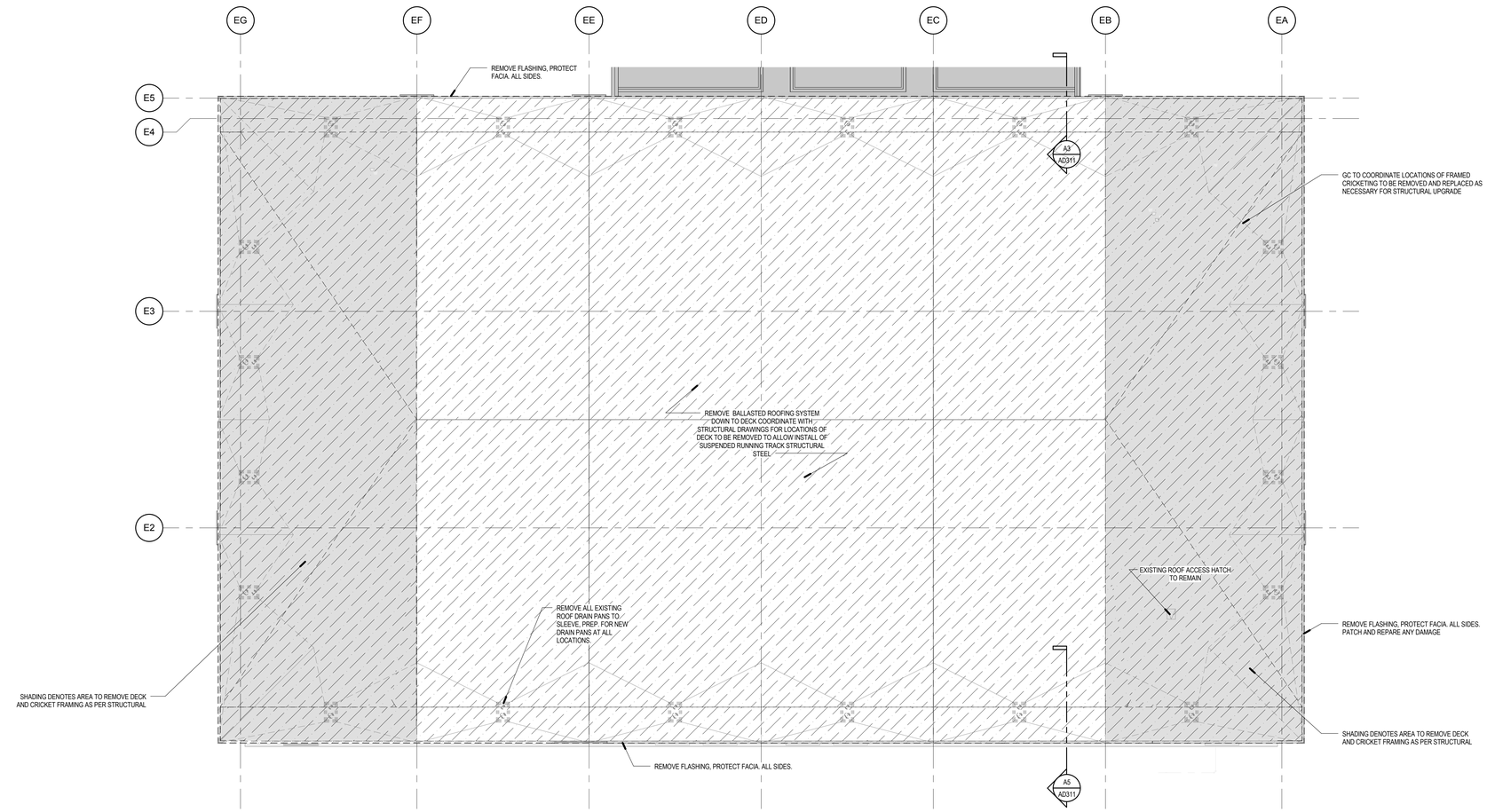
| Rev # | Date | Description |
|---|---|---|

Job # 12475
CAD File
Drawn Author Checked Checker
Date 10.03.2012
Owner # DFCM #12031810

DEMOLITION CEILING PLAN

AD103

10/3/2012 1:12:21 PM




A1 ROOF - OVERALL DEMOLITION PLAN

SCALE: 1/16" = 1'-0"

0' 8' 16' 32' 48'

## GENERAL DEMOLITION NOTES

1. THE CONTRACTOR MUST FIELD VERIFY ALL DIMENSIONS AND CONDITIONS INCLUDING EXISTING UTILITIES PRIOR TO BIDDING AS THE LOCATIONS SHOWN IN THE DOCUMENTS ARE APPROXIMATED. ALL VARIANCES NOT SHOWN IN THE DRAWINGS SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT PRIOR TO BID.
2. CONTRACTOR TO COORDINATE WITH ELECTRICAL AND MECHANICAL PLANS FOR LOCATIONS OF ALL EXISTING AND NEW EQUIPMENT, SYSTEMS, AND DEVICES.
3. AS SOME DEMOLITION WORK WILL BE SPECIFIC TO DIVISION 22, 23, 26, THE CONTRACTOR SHALL CROSS REFERENCE WITH ELECTRICAL AND MECHANICAL PLANS FOR ADDITIONAL DEMOLITION WHICH IS REQUIRED, BUT NOT REFLECTED ON ARCHITECTURAL DRAWINGS.
4. CONTRACTOR SHALL TAKE ALL PRECAUTIONS NECESSARY TO PROTECT THE EXISTING STRUCTURE, FINISHES, AND SITE ELEMENTS NOT CALLED FOR DEMOLITION DURING REMODEL OF WALLS, FLOORING MATERIAL, CASEWORK, DOORS, WINDOWS, CEILINGS, AND SITE.
5. CONTRACTOR MUST COORDINATE WORK HOURS WITH OWNER OR PROJECT REPRESENTATIVE PRIOR TO COMMENCEMENT OF WORK. APPROVAL OF PROPOSED SCHEDULE IS REQUIRED PRIOR TO COMMENCING ANY WORK. CONSTRUCTION RELATED ACTIVITIES SHALL NOT OBSTRUCT THE PROCESS OF DAY TO DAY WORK ON SITE UNLESS SPECIFICALLY APPROVED IN ADVANCE BY THE PROJECT REPRESENTATIVE. AFTER HOURS OR WEEKEND WORK SHALL BE EMPLOYED TO AVOID ADVERSE IMPACTS TO TENANT EMPLOYEES.
6. ALL EXISTING INTERIOR FINISHES, MATERIALS, STRUCTURE, SYSTEMS, LANDSCAPING, AND SITE FEATURES, ETC., NOT IDENTIFIED FOR DEMOLITION THAT ARE DAMAGED DURING THE PROCESS OF CONSTRUCTION SHALL BE RESTORED TO THEIR ORIGINAL CONDITION OR REPLACED TO MATCH AT THE CONTRACTORS EXPENSE.
7. ALL EXISTING FIRE RATINGS, AND ASSOCIATED FIRE PROTECTION SYSTEMS (I.E. FIRE SPRINKLERS AND FIRE ALARM SYSTEMS) ARE TO BE MAINTAINED THROUGHOUT CONSTRUCTION IN OCCUPIED SPACES. ANY INTERRUPTION TO THESE SYSTEMS SHALL BE COORDINATED WITH THE OWNER AND FIRE MARSHALS OFFICE. CONTRACTOR IS RESPONSIBLE FOR ANY FIRE WATCH REQUIREMENTS ASSOCIATED WITH INTERRUPTIONS TO THESE EXISTING SYSTEMS.
8. THE MAINTENANCE OF ADEQUATE FIRE EGRESS FOR OCCUPANTS IN THE EXISTING BUILDING SHALL BE COORDINATED WITH THE OWNER AND FIRE MARSHALS OFFICE. CONTRACTOR SHALL PROVIDE ALL NECESSARY TEMPORARY WALLS OR ENCLOSURES.
   EMERGENCY LIGHTS, ETC., FOR THE DURATION OF THE CONSTRUCTION.
9. CONTRACTOR SHALL REMOVE AND DISPOSE OF ALL FLOORING, WALLS, & CEILING SYSTEMS AS SHOWN ON THE DRAWINGS.
10. CONTRACTOR TO MAINTAIN EXISTING FIRE RATED ELEMENTS IN BUILDING - REPAIR IF DAMAGED.
11. CONTRACTOR TO MAINTAIN ACCESS TO STAIRS DURING CONSTRUCTION. TYP.
12. ALL ADJACENT SURFACES DAMAGED DUE TO WORK UNDER THIS CONTRACT SHALL BE PATCHED & FINISHED TO MATCH EXISTING ADJACENT SURFACES.
13. CONTRACTOR TO PROVIDE DUSTPROOF ENCLOSURES AT PERIMETER OF AREAS OF CONSTRUCTION & DEMOLITION FOR PROTECTION OF ADJACENT SPACES.
14. PATCH & LEVEL EXISTING CONCRETE SLABS AS REQUIRED FOR NEW FINISHES WITH FLOOR LEVELING COMPOUND AS APPROVED BY ARCHITECT.
15. THE GENERAL CONTRACTOR SHALL BRING TO THE ATTENTION OF THE ARCHITECT FOR IMMEDIATE RESOLUTION, ANY CODE VIOLATIONS, INCORRECT CONSTRUCTIONS OR SAFETY PROBLEMS THAT ARE EXISTING FIELD CONDITIONS.
16. THE GENERAL CONTRACTOR IS RESPONSIBLE TO COORDINATE SCOPE IN REMODEL AND NEW CONSTRUCTION AS INDICATED ON ALL ARCHITECTURAL, STRUCTURAL, ELECTRICAL AND MECHANICAL SHEETS AND COORDINATE AND PROVIDE DEMOLITION AS NEEDED. WORK AS DESCRIBED FOR REMODEL OR ADDITION THAT IS IN CONFLICT WITH EXISTING CONDITION IS TO BE BROUGHT TO THE ATTENTION OF THE ARCHITECT PRIOR TO DEMOLITION.

## DEMOLITION LEGEND

- DASHED LINES DENOTES ITEM(S) TO BE DEMOLISHED
- SHADED AREA DENOTES EXTENTS OF STRUCTURAL AND FLOOR PLAN DEMOLITION
- AREA TO REMAIN UNDISTURBED DURING CONSTRUCTION PHASE
- BID ALTERNATE #1: REMOVE AND REPLACE GREEN PORTIONS OF ATHLETIC FLOOR. REPLACE WITH RUBBER ATHLETIC FLOORING.

VCBO
ARCHITECTURE
VALENTINER
CRANE
BRUNJES
ONYON

REGISTERED ARCHITECT
339
RENT R. TIPPETS
10-2-12
STATE OF UTAH

VCBO ARCHITECTURE
524 SOUTH 600 EAST
SALT LAKE CITY, UT 84102
Phone: (801) 575-8800
Fax: (801) 531-9850
www: www.vcbo.com

DFCM CODE COMPLIANCE STAMP

# Student Activity Center
## Stromberg Addition - BID SET
Weber State University
3750 Harrison Blvd. Ogden, UT 84408

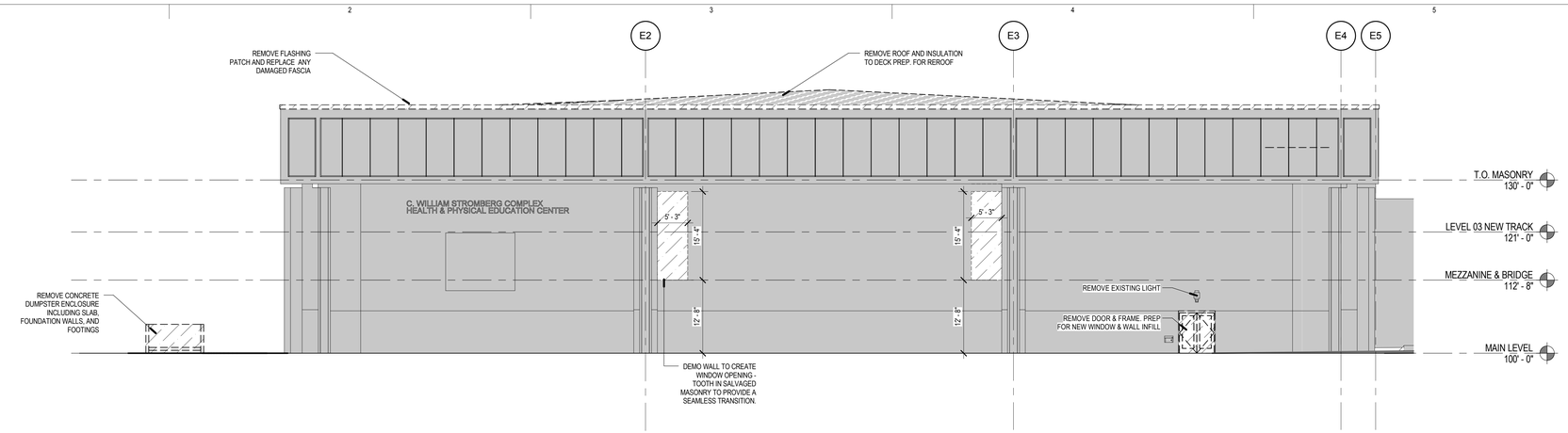
| Rev # | Date | Description |
|---|---|---|

Job # 12475
CAD File
Drawn Author Checked Checker
Date 10.03.2012
Owner # DFCM #12031810

DEMOLITION ROOF PLAN

AD104

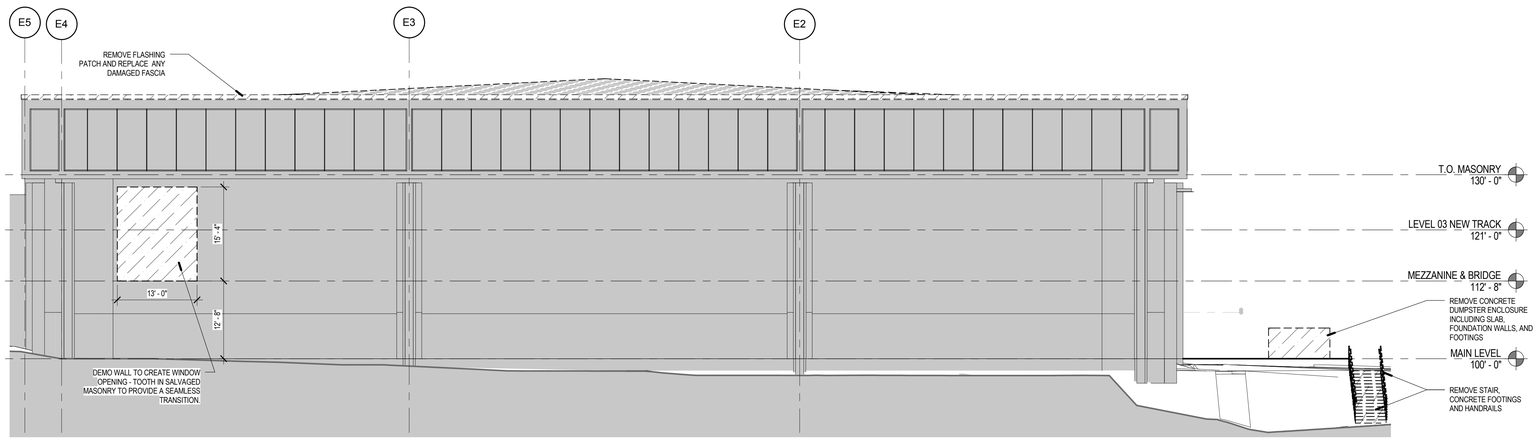
10/3/2012 1:12:25 PM




D1 DEMOLITION SOUTH ELEVATION

SCALE: 1" = 10'-0"

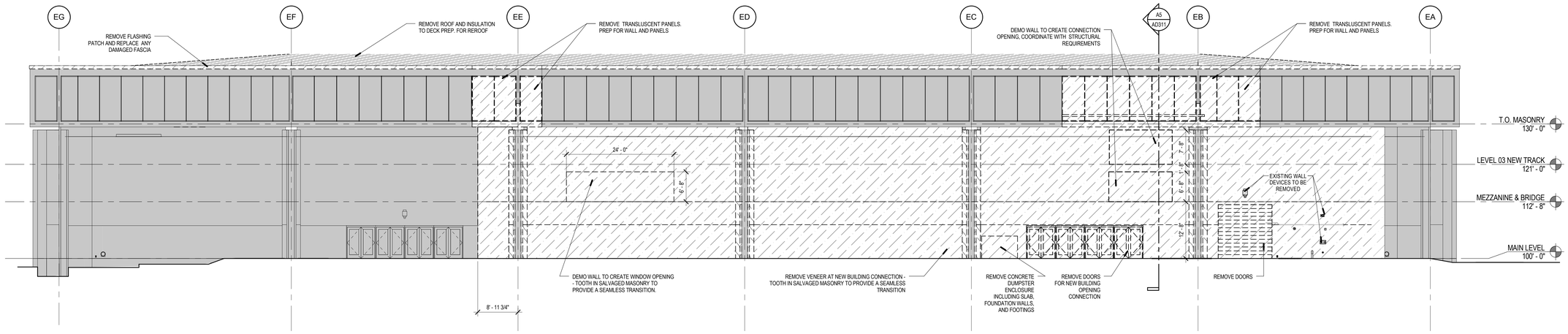
0' 5' 10' 20'




C1 DEMOLITION NORTH ELEVATION

SCALE: 1" = 10'-0"

0' 5' 10' 20'




A1 DEMOLITION WEST ELEVATION

SCALE: 1" = 10'-0"

0' 5' 10' 20'

## GENERAL DEMOLITION NOTES

1. THE CONTRACTOR MUST FIELD VERIFY ALL DIMENSIONS AND CONDITIONS INCLUDING EXISTING UTILITIES PRIOR TO BIDDING AS THE LOCATIONS SHOWN IN THE DOCUMENTS ARE APPROXIMATED. ALL VARIANCES NOT SHOWN IN THE DRAWINGS SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT PRIOR TO BID.
2. CONTRACTOR TO COORDINATE WITH ELECTRICAL AND MECHANICAL PLANS FOR LOCATIONS OF ALL EXISTING AND NEW EQUIPMENT, SYSTEMS, AND DEVICES.
3. AS SOME DEMOLITION WORK WILL BE SPECIFIC TO DIVISION 22, 23, 26, THE CONTRACTOR SHALL CROSS REFERENCE WITH ELECTRICAL AND MECHANICAL PLANS FOR ADDITIONAL DEMOLITION WHICH IS REQUIRED, BUT NOT REFLECTED ON ARCHITECTURAL DRAWINGS.
4. CONTRACTOR SHALL TAKE ALL PRECAUTIONS NECESSARY TO PROTECT THE EXISTING STRUCTURE, FINISHES, AND SITE ELEMENTS NOT CALLED FOR DEMOLITION DURING REMODEL OF WALLS, FLOORING MATERIAL, CASEWORK, DOORS, WINDOWS, CEILINGS, AND SITE.
5. CONTRACTOR MUST COORDINATE WORK HOURS WITH OWNER OR PROJECT REPRESENTATIVE PRIOR TO COMMENCEMENT OF WORK. APPROVAL OF PROPOSED SCHEDULE IS REQUIRED PRIOR TO COMMENCING ANY WORK. CONSTRUCTION RELATED ACTIVITIES SHALL NOT OBSTRUCT THE PROCESS OF DAY TO DAY WORK ON SITE UNLESS SPECIFICALLY APPROVED IN ADVANCE BY THE PROJECT REPRESENTATIVE. AFTER HOURS OR WEEKEND WORK SHALL BE EMPLOYED TO AVOID ADVERSE IMPACTS TO TENANT EMPLOYEES.
6. ALL EXISTING INTERIOR FINISHES, MATERIALS, STRUCTURE, SYSTEMS, LANDSCAPING, AND SITE FEATURES, ETC., NOT IDENTIFIED FOR DEMOLITION THAT ARE DAMAGED DURING THE PROCESS OF CONSTRUCTION SHALL BE RESTORED TO THEIR ORIGINAL CONDITION OR REPLACED TO MATCH AT THE CONTRACTORS EXPENSE.
7. ALL EXISTING FIRE RATINGS, AND ASSOCIATED FIRE PROTECTION SYSTEMS (I.E. FIRE SPRINKLERS AND FIRE ALARM SYSTEMS) ARE TO BE MAINTAINED THROUGHOUT CONSTRUCTION IN OCCUPIED SPACES. ANY INTERRUPTION TO THESE SYSTEMS SHALL BE COORDINATED WITH THE OWNER AND FIRE MARSHALS OFFICE. CONTRACTOR IS RESPONSIBLE FOR ANY FIRE WATCH REQUIREMENTS ASSOCIATED WITH INTERRUPTIONS TO THESE EXISTING SYSTEMS
8. THE MAINTENANCE OF ADEQUATE FIRE EGRESS FOR OCCUPANTS IN THE EXISTING BUILDING SHALL BE COORDINATED WITH THE OWNER AND FIRE MARSHALS OFFICE. CONTRACTOR SHALL PROVIDE ALL NECESSARY TEMPORARY WALLS OR ENCLOSURES,
EMERGENCY LIGHTS, ETC., FOR THE DURATION OF THE CONSTRUCTION.
9. CONTRACTOR SHALL REMOVE AND DISPOSE OF ALL FLOORING, WALLS, & CEILING SYSTEMS AS SHOWN ON THE DRAWINGS.
10. CONTRACTOR TO MAINTAIN EXISTING FIRE RATED ELEMENTS IN BUILDING - REPAIR IF DAMAGED.
11. CONTRACTOR TO MAINTAIN ACCESS TO STAIRS DURING CONSTRUCTION. TYP.
12. ALL ADJACENT SURFACES DAMAGED DUE TO WORK UNDER THIS CONTRACT SHALL BE PATCHED & FINISHED TO MATCH EXISTING ADJACENT SURFACES.
13. CONTRACTOR TO PROVIDE DUSTPROOF ENCLOSURES AT PERIMETER OF AREAS OF CONSTRUCTION & DEMOLITION FOR PROTECTION OF ADJACENT SPACES.
14. PATCH & LEVEL EXISTING CONCRETE SLABS AS REQUIRED FOR NEW FINISHES WITH FLOOR LEVELING COMPOUND AS APPROVED BY ARCHITECT.
15. THE GENERAL CONTRACTOR SHALL BRING TO THE ATTENTION OF THE ARCHITECT FOR IMMEDIATE RESOLUTION, ANY CODE VIOLATIONS, INCORRECT CONSTRUCTIONS OR SAFETY PROBLEMS THAT ARE EXISTING FIELD CONDITIONS.
16. THE GENERAL CONTRACTOR IS RESPONSIBLE TO COORDINATE SCOPE IN REMODEL AND NEW CONSTRUCTION AS INDICATED ON ALL ARCHITECTURAL, STRUCTURAL, ELECTRICAL, AND MECHANICAL SHEETS AND COORDINATE AND PROVIDE DEMOLITION AS NEEDED. WORK AS DESCRIBED FOR REMODEL OR ADDITION THAT IS IN CONFLICT WITH EXISTING CONDITION IS TO BE BROUGHT TO THE ATTENTION OF THE ARCHITECT PRIOR TO DEMOLITION.

## DEMOLITION LEGEND

- DASHED LINES DENOTES ITEM(S) TO BE DEMOLISHED
- SHADED AREA DENOTES EXTENTS OF STRUCTURAL AND FLOOR PLAN DEMOLITION
- AREA TO REMAIN UNDISTURBED DURING CONSTRUCTION PHASE
- BID ALTERNATE #1: REMOVE AND REPLACE GREEN PORTIONS OF ATHLETIC FLOOR. REPLACE WITH RUBBER ATHLETIC FLOORING.

## KEYED NOTES

VCBO
ARCHITECTURE
VALENTINER
CRANE
BRUNJES
ONYON

REGISTERED ARCHITECT
STATE OF UTAH
339278
BRENT R. TIPPETS
10-2-12

VCBO ARCHITECTURE
524 SOUTH 600 EAST
SALT LAKE CITY, UT 84102
Phone: (801) 575-8800
Fax: (801) 531-9850
www: www.vcbo.com

DFCM CODE COMPLIANCE STAMP

# Student Activity Center
## Stromberg Addition - BID SET
Weber State University
3750 Harrison Blvd. Ogden, UT 84408

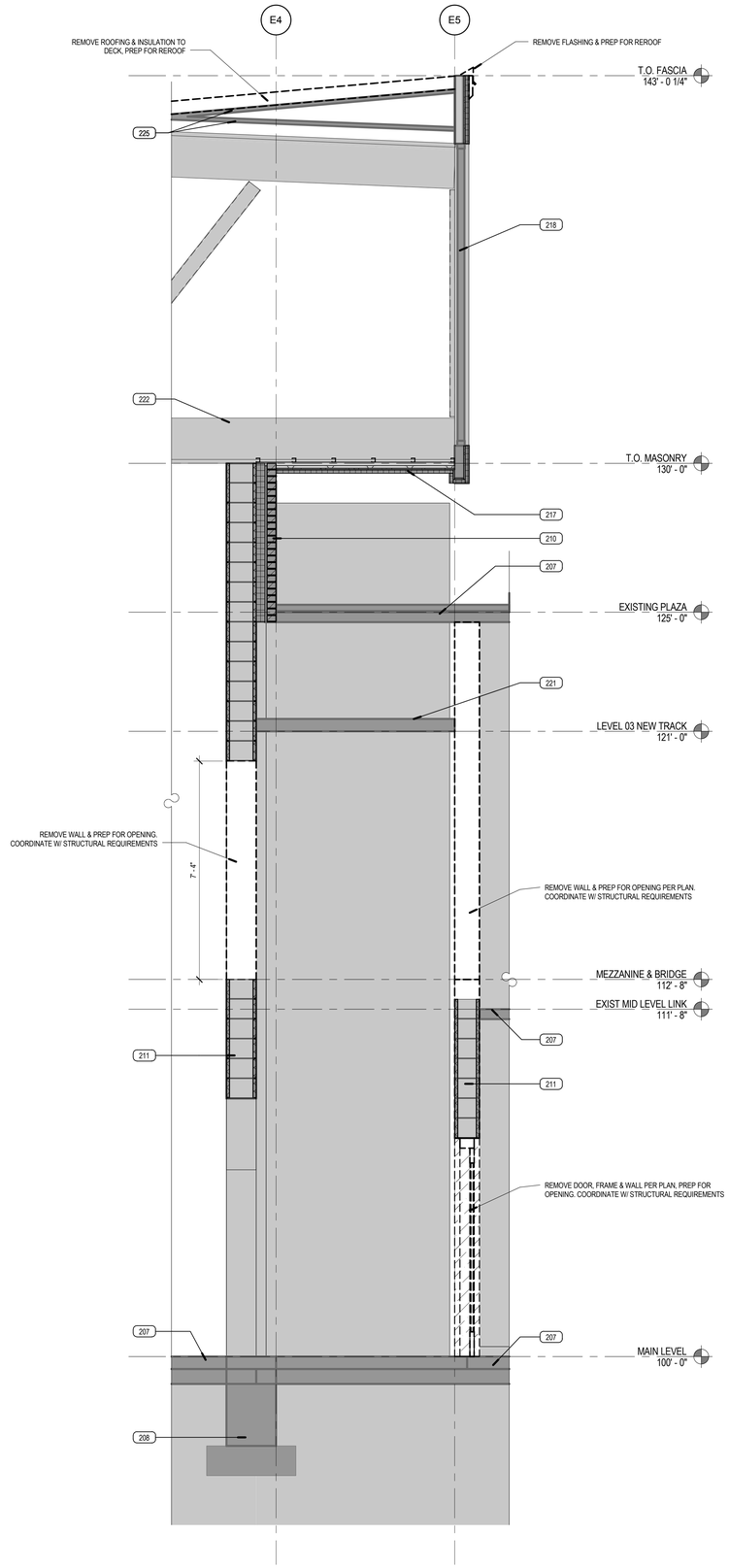
| Rev # | Date | Description |
|---|---|---|

Job # 12475
CAD File
Drawn Author Checked Checker
Date 10.03.2012
Owner # DFCM #12031810

DEMOLITION EXTERIOR ELEVATIONS

AD201

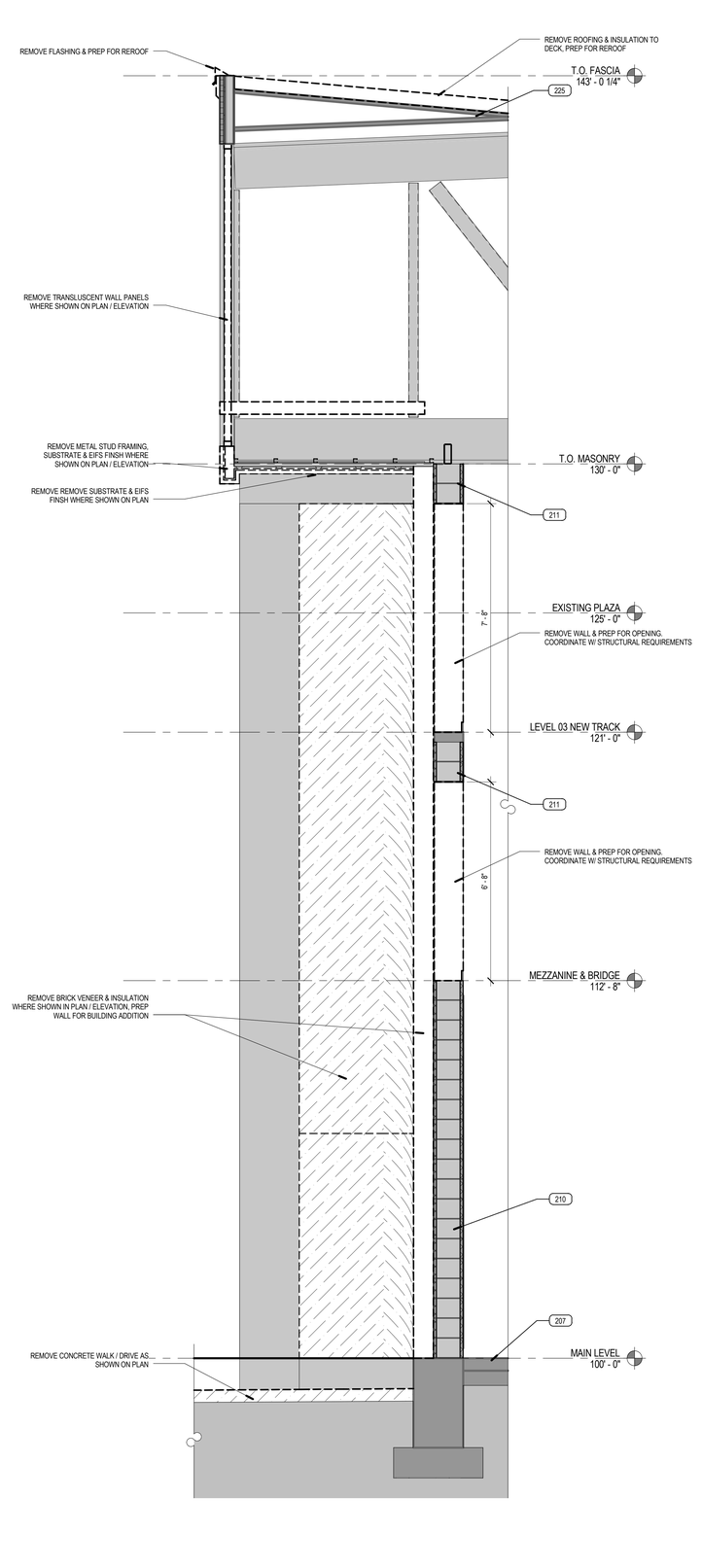
10/3/2012 1:12:35 PM




A3 DEMO WS EAST ARENA GRID E.6

SCALE: 1/2" = 1'-0"

0' 1' 2' 4'




A5 DEMO WS ADDITION / ARENA GRID E.6

SCALE: 1/2" = 1'-0"

0' 1' 2' 4'

## GENERAL DEMOLITION NOTES

1. THE CONTRACTOR MUST FIELD VERIFY ALL DIMENSIONS AND CONDITIONS INCLUDING EXISTING UTILITIES PRIOR TO BIDDING AS THE LOCATIONS SHOWN IN THE DOCUMENTS ARE APPROXIMATED. ALL VARIANCES NOT SHOWN IN THE DRAWINGS SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT PRIOR TO BID.
2. CONTRACTOR TO COORDINATE WITH ELECTRICAL AND MECHANICAL PLANS FOR LOCATIONS OF ALL EXISTING AND NEW EQUIPMENT, SYSTEMS, AND DEVICES.
3. AS SOME DEMOLITION WORK WILL BE SPECIFIC TO DIVISION 22, 23, 26, THE CONTRACTOR SHALL CROSS REFERENCE WITH ELECTRICAL AND MECHANICAL PLANS FOR ADDITIONAL DEMOLITION WHICH IS REQUIRED, BUT NOT REFLECTED ON ARCHITECTURAL DRAWINGS.
4. CONTRACTOR SHALL TAKE ALL PRECAUTIONS NECESSARY TO PROTECT THE EXISTING STRUCTURE, FINISHES, AND SITE ELEMENTS NOT CALLED FOR DEMOLITION DURING REMODEL OF WALLS, FLOORING MATERIAL, CASEWORK, DOORS, WINDOWS, CEILINGS, AND SITE.
5. CONTRACTOR MUST COORDINATE WORK HOURS WITH OWNER OR PROJECT REPRESENTATIVE PRIOR TO COMMENCEMENT OF WORK. APPROVAL OF PROPOSED SCHEDULE IS REQUIRED PRIOR TO COMMENCING ANY WORK. CONSTRUCTION RELATED ACTIVITIES SHALL NOT OBSTRUCT THE PROCESS OF DAY TO DAY WORK ON SITE UNLESS SPECIFICALLY APPROVED IN ADVANCE BY THE PROJECT REPRESENTATIVE. AFTER HOURS OR WEEKEND WORK SHALL BE EMPLOYED TO AVOID ADVERSE IMPACTS TO TENANT EMPLOYEES.
6. ALL EXISTING INTERIOR FINISHES, MATERIALS, STRUCTURE, SYSTEMS, LANDSCAPING, AND SITE FEATURES, ETC., NOT IDENTIFIED FOR DEMOLITION THAT ARE DAMAGED DURING THE PROCESS OF CONSTRUCTION SHALL BE RESTORED TO THEIR ORIGINAL CONDITION OR REPLACED TO MATCH AT THE CONTRACTORS EXPENSE.
7. ALL EXISTING FIRE RATINGS, AND ASSOCIATED FIRE PROTECTION SYSTEMS (I.E. FIRE SPRINKLERS AND FIRE ALARM SYSTEMS) ARE TO BE MAINTAINED THROUGHOUT CONSTRUCTION IN OCCUPIED SPACES. ANY INTERRUPTION TO THESE SYSTEMS SHALL BE COORDINATED WITH THE OWNER AND FIRE MARSHALS OFFICE. CONTRACTOR IS RESPONSIBLE FOR ANY FIRE WATCH REQUIREMENTS ASSOCIATED WITH INTERRUPTIONS TO THESE EXISTING SYSTEMS.
8. THE MAINTENANCE OF ADEQUATE FIRE EGRESS FOR OCCUPANTS IN THE EXISTING BUILDING SHALL BE COORDINATED WITH THE OWNER AND FIRE MARSHALS OFFICE. CONTRACTOR SHALL PROVIDE ALL NECESSARY TEMPORARY WALLS OR ENCLOSURES, EMERGENCY LIGHTS, ETC., FOR THE DURATION OF THE CONSTRUCTION.
9. CONTRACTOR SHALL REMOVE AND DISPOSE OF ALL FLOORING, WALLS, & CEILING SYSTEMS AS SHOWN ON THE DRAWINGS.
10. CONTRACTOR TO MAINTAIN EXISTING FIRE RATED ELEMENTS IN BUILDING - REPAIR IF DAMAGED.
11. CONTRACTOR TO MAINTAIN ACCESS TO STAIRS DURING CONSTRUCTION. TYP.
12. ALL ADJACENT SURFACES DAMAGED DUE TO WORK UNDER THIS CONTRACT SHALL BE PATCHED & FINISHED TO MATCH EXISTING ADJACENT SURFACES.
13. CONTRACTOR TO PROVIDE DUSTPROOF ENCLOSURES AT PERIMETER OF AREAS OF CONSTRUCTION & DEMOLITION FOR PROTECTION OF ADJACENT SPACES.
14. PATCH & LEVEL EXISTING CONCRETE SLABS AS REQUIRED FOR NEW FINISHES WITH FLOOR LEVELING COMPOUND AS APPROVED BY ARCHITECT.
15. THE GENERAL CONTRACTOR SHALL BRING TO THE ATTENTION OF THE ARCHITECT FOR IMMEDIATE RESOLUTION, ANY CODE VIOLATIONS, INCORRECT CONSTRUCTIONS OR SAFETY PROBLEMS THAT ARE EXISTING FIELD CONDITIONS.
16. THE GENERAL CONTRACTOR IS RESPONSIBLE TO COORDINATE SCOPE IN REMODEL AND NEW CONSTRUCTION AS INDICATED ON ALL ARCHITECTURAL, STRUCTURAL, ELECTRICAL AND MECHANICAL SHEETS AND COORDINATE AND PROVIDE DEMOLITION AS NEEDED. WORK AS DESCRIBED FOR REMODEL OR ADDITION THAT IS IN CONFLICT WITH EXISTING CONDITION IS TO BE BROUGHT TO THE ATTENTION OF THE ARCHITECT PRIOR TO DEMOLITION.

## DEMOLITION LEGEND

- DASHED LINES DENOTES ITEM(S) TO BE DEMOLISHED
- SHADED AREA DENOTES EXTENTS OF STRUCTURAL AND FLOOR PLAN DEMOLITION
- AREA TO REMAIN UNDISTURBED DURING CONSTRUCTION PHASE
- BID ALTERNATE #1: REMOVE AND REPLACE GREEN PORTIONS OF ATHLETIC FLOOR. REPLACE WITH RUBBER ATHLETIC FLOORING.

## KEYED NOTES

| | |
|---|---|
| 207 | EXG CONCRETE SLAB |
| 208 | EXG CONCRETE FOOTING/ FOUNDATION |
| 210 | EXG MASONRY WALL |
| 211 | EXG CMU WALL |
| 217 | EXG SOFFIT |
| 218 | EXG KALWALL WINDOW SYSTEM |
| 221 | EXG CEILING |
| 222 | EXG STRUCTURE |
| 225 | EXG ROOF DECK |

VCBO
ARCHITECTURE
VALENTINER
CRANE
BRUNJES
ONYON

REGISTERED ARCHITECT
STATE OF UTAH
339278
BRENT R. TIPPETS
10-2-12

VCBO ARCHITECTURE
524 SOUTH 600 EAST
SALT LAKE CITY, UT 84102
Phone: (801) 575-8800
Fax: (801) 531-9850
WWW: www.vcbo.com

DFCM CODE COMPLIANCE STAMP

# Student Activity Center
## Stromberg Addition - BID SET
Weber State University
3750 Harrison Blvd. Ogden, UT 84408

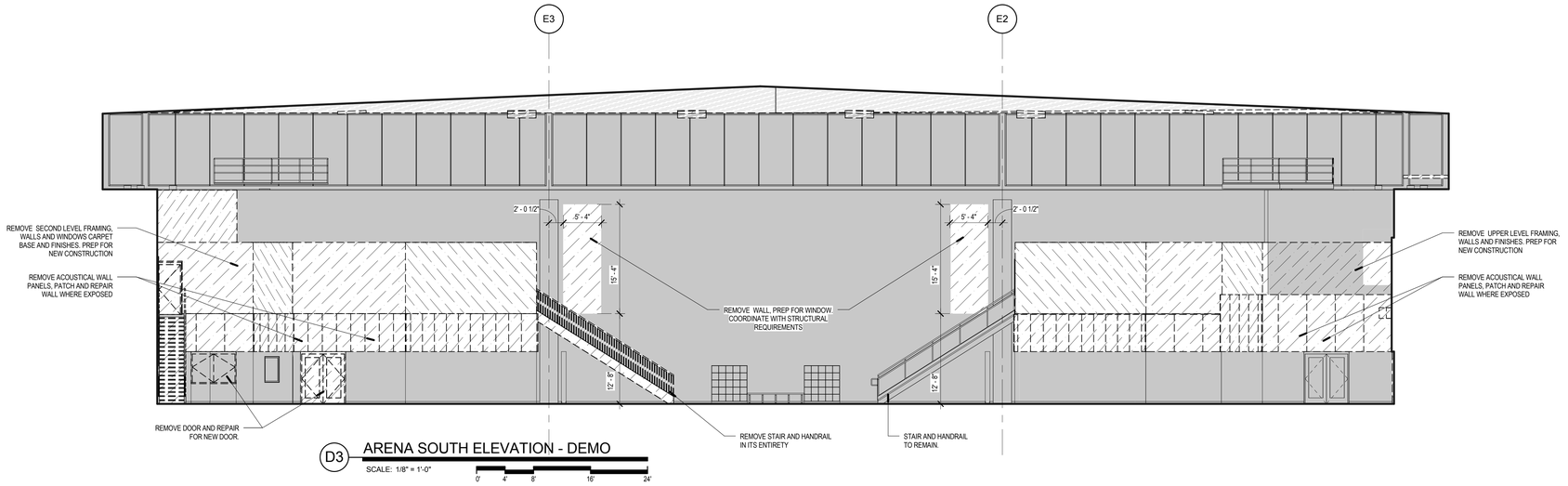
| Rev # | Date | Description |
|---|---|---|

Job # 12475
CAD File
Drawn Author Checked Checker
Date 10.03.2012
Owner # DFCM #12031810

DEMOLITION WALL SECTIONS

AD311

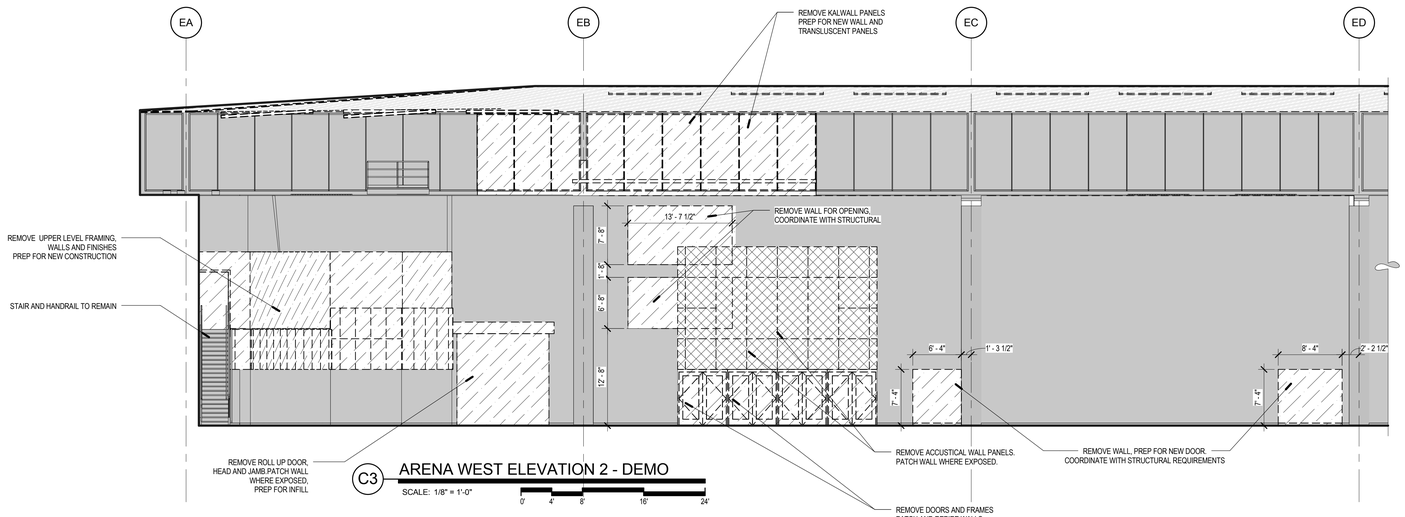
10/3/2012 1:12:40 PM




D3 ARENA SOUTH ELEVATION - DEMO

SCALE: 1/8" = 1'-0"

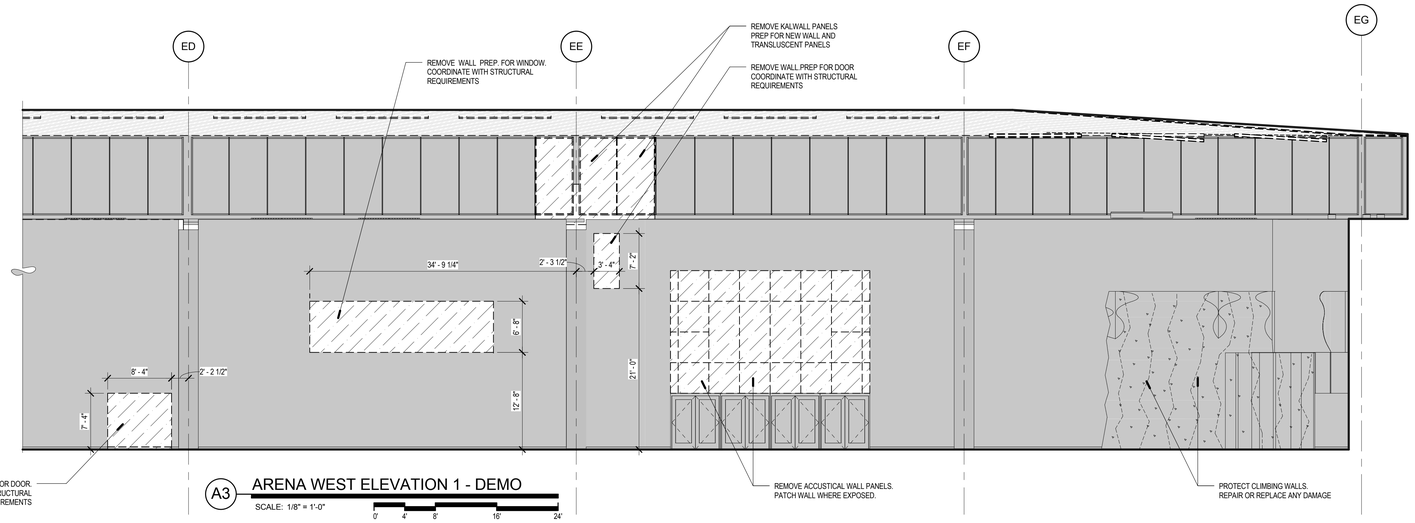
0' 4' 8' 16' 24'




C3 ARENA WEST ELEVATION 2 - DEMO

SCALE: 1/8" = 1'-0"

0' 4' 8' 16' 24'




A3 ARENA WEST ELEVATION 1 - DEMO

SCALE: 1/8" = 1'-0"

0' 4' 8' 16' 24'

## GENERAL DEMOLITION NOTES

1. THE CONTRACTOR MUST FIELD VERIFY ALL DIMENSIONS AND CONDITIONS INCLUDING EXISTING UTILITIES PRIOR TO BIDDING AS THE LOCATIONS SHOWN IN THE DOCUMENTS ARE APPROXIMATED. ALL VARIANCES NOT SHOWN IN THE DRAWINGS SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT PRIOR TO BID.
2. CONTRACTOR TO COORDINATE WITH ELECTRICAL AND MECHANICAL PLANS FOR LOCATIONS OF ALL EXISTING AND NEW EQUIPMENT, SYSTEMS, AND DEVICES.
3. AS SOME DEMOLITION WORK WILL BE SPECIFIC TO DIVISION 22, 23, 26, THE CONTRACTOR SHALL CROSS REFERENCE WITH ELECTRICAL AND MECHANICAL PLANS FOR ADDITIONAL DEMOLITION WHICH IS REQUIRED, BUT NOT REFLECTED ON ARCHITECTURAL DRAWINGS.
4. CONTRACTOR SHALL TAKE ALL PRECAUTIONS NECESSARY TO PROTECT THE EXISTING STRUCTURE, FINISHES, AND SITE ELEMENTS NOT CALLED FOR DEMOLITION DURING REMODEL OF WALLS, FLOORING MATERIAL, CASEWORK, DOORS, WINDOWS, CEILINGS, AND SITE.
5. CONTRACTOR MUST COORDINATE WORK HOURS WITH OWNER OR PROJECT REPRESENTATIVE PRIOR TO COMMENCEMENT OF WORK. APPROVAL OF PROPOSED SCHEDULE IS REQUIRED PRIOR TO COMMENCING ANY WORK. CONSTRUCTION RELATED ACTIVITIES SHALL NOT OBSTRUCT THE PROCESS OF DAY TO DAY WORK ON SITE UNLESS SPECIFICALLY APPROVED IN ADVANCE BY THE PROJECT REPRESENTATIVE. AFTER HOURS OR WEEKEND WORK SHALL BE EMPLOYED TO AVOID ADVERSE IMPACTS TO TENANT EMPLOYEES.
6. ALL EXISTING INTERIOR FINISHES, MATERIALS, STRUCTURE, SYSTEMS, LANDSCAPING, AND SITE FEATURES, ETC., NOT IDENTIFIED FOR DEMOLITION THAT ARE DAMAGED DURING THE PROCESS OF CONSTRUCTION SHALL BE RESTORED TO THEIR ORIGINAL CONDITION OR REPLACED TO MATCH AT THE CONTRACTORS EXPENSE.
7. ALL EXISTING FIRE RATINGS, AND ASSOCIATED FIRE PROTECTION SYSTEMS (I.E. FIRE SPRINKLERS AND FIRE ALARM SYSTEMS) ARE TO BE MAINTAINED THROUGHOUT CONSTRUCTION IN OCCUPIED SPACES. ANY INTERRUPTION TO THESE SYSTEMS SHALL BE COORDINATED WITH THE OWNER AND FIRE MARSHALS OFFICE. CONTRACTOR IS RESPONSIBLE FOR ANY FIRE WATCH REQUIREMENTS ASSOCIATED WITH INTERRUPTIONS TO THESE EXISTING SYSTEMS
8. THE MAINTENANCE OF ADEQUATE FIRE EGRESS FOR OCCUPANTS IN THE EXISTING BUILDING SHALL BE COORDINATED WITH THE OWNER AND FIRE MARSHALS OFFICE. CONTRACTOR SHALL PROVIDE ALL NECESSARY TEMPORARY WALLS OR ENCLOSURES, EMERGENCY LIGHTS, ETC., FOR THE DURATION OF THE CONSTRUCTION.
9. CONTRACTOR SHALL REMOVE AND DISPOSE OF ALL FLOORING, WALLS, & CEILING SYSTEMS AS SHOWN ON THE DRAWINGS.
10. CONTRACTOR TO MAINTAIN EXISTING FIRE RATED ELEMENTS IN BUILDING - REPAIR IF DAMAGED.
11. CONTRACTOR TO MAINTAIN ACCESS TO STAIRS DURING CONSTRUCTION. TYP.
12. ALL ADJACENT SURFACES DAMAGED DUE TO WORK UNDER THIS CONTRACT SHALL BE PATCHED & FINISHED TO MATCH EXISTING ADJACENT SURFACES.
13. CONTRACTOR TO PROVIDE DUSTPROOF ENCLOSURES AT PERIMETER OF AREAS OF CONSTRUCTION & DEMOLITION FOR PROTECTION OF ADJACENT SPACES.
14. PATCH & LEVEL EXISTING CONCRETE SLABS AS REQUIRED FOR NEW FINISHES WITH FLOOR LEVELING COMPOUND AS APPROVED BY ARCHITECT.
15. THE GENERAL CONTRACTOR SHALL BRING TO THE ATTENTION OF THE ARCHITECT FOR IMMEDIATE RESOLUTION, ANY CODE VIOLATIONS, INCORRECT CONSTRUCTIONS OR SAFETY PROBLEMS THAT ARE EXISTING FIELD CONDITIONS.
16. THE GENERAL CONTRACTOR IS RESPONSIBLE TO COORDINATE SCOPE IN REMODEL AND NEW CONSTRUCTION AS INDICATED ON ALL ARCHITECTURAL, STRUCTURAL, ELECTRICAL, AND MECHANICAL SHEETS AND COORDINATE AND PROVIDE DEMOLITION AS NEEDED. WORK AS DESCRIBED FOR REMODEL OR ADDITION THAT IS IN CONFLICT WITH EXISTING CONDITION IS TO BE BROUGHT TO THE ATTENTION OF THE ARCHITECT PRIOR TO DEMOLITION.

## DEMOLITION LEGEND

- DASHED LINES DENOTES ITEM(S) TO BE DEMOLISHED
- SHADED AREA DENOTES EXTENTS OF STRUCTURAL AND FLOOR PLAN DEMOLITION
- AREA TO REMAIN UNDISTURBED DURING CONSTRUCTION PHASE
- BID ALTERNATE #1: REMOVE AND REPLACE GREEN PORTIONS OF ATHLETIC FLOOR. REPLACE WITH RUBBER ATHLETIC FLOORING.

## KEYED NOTES

VCBO
ARCHITECTURE
VALENTINER
CRANE
BRUNJES
ONYON

REGISTERED ARCHITECT
STATE OF UTAH
13397
BRENT R. TIPPETS
10-2-12

VCBO ARCHITECTURE
524 SOUTH 600 EAST
SALT LAKE CITY, UT 84102
Phone: (801) 575-8800
Fax: (801) 531-9850
WWW: www.vcbo.com

DFCM CODE COMPLIANCE STAMP

# Student Activity Center
## Stromberg Addition - BID SET
Weber State University
3750 Harrison Blvd. Ogden, UT 84408

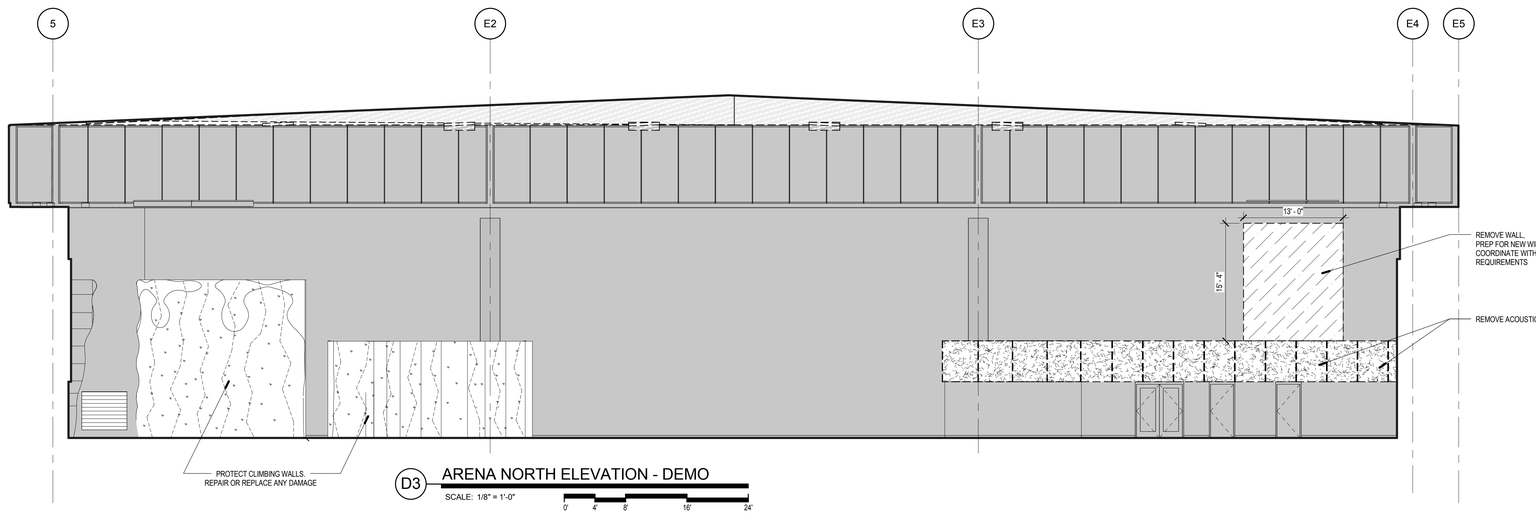
| Rev # | Date | Description |
|---|---|---|

Job # 12475
CAD File
Drawn Author Checked Checker
Date 10.03.2012
Owner # DFCM #12031810

DEMOLITION INTERIOR ELEVATIONS

AD410

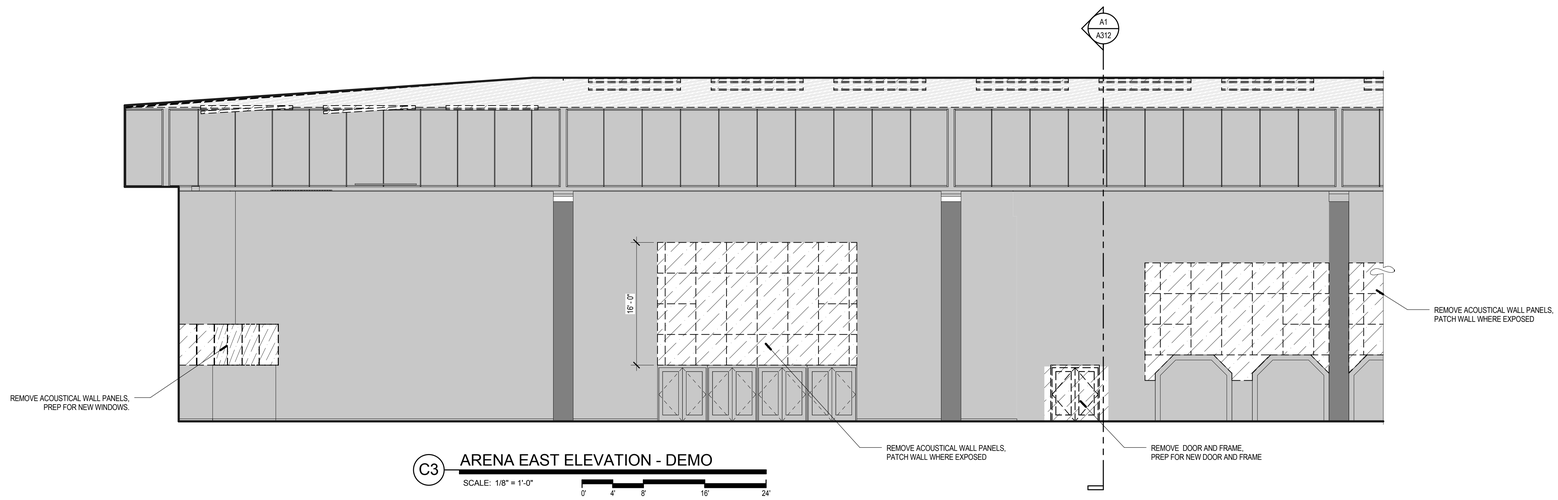
10/3/2012 1:12:46 PM




D3 ARENA NORTH ELEVATION - DEMO

SCALE: 1/8" = 1'-0"

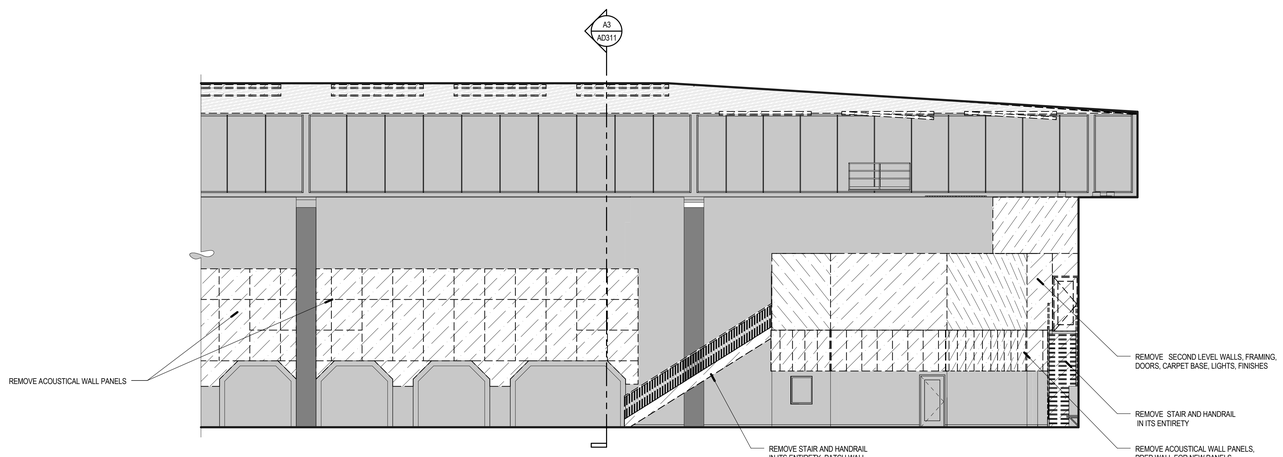
0' 4' 8' 16' 24'




C3 ARENA EAST ELEVATION - DEMO

SCALE: 1/8" = 1'-0"

0' 4' 8' 16' 24'




A3 ARENA EAST ELEVATION 2 - DEMO

SCALE: 1/8" = 1'-0"

0' 4' 8' 16' 24'

## GENERAL DEMOLITION NOTES

1. THE CONTRACTOR MUST FIELD VERIFY ALL DIMENSIONS AND CONDITIONS INCLUDING EXISTING UTILITIES PRIOR TO BIDDING AS THE LOCATIONS SHOWN IN THE DOCUMENTS ARE APPROXIMATED. ALL VARIANCES NOT SHOWN IN THE DRAWINGS SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT PRIOR TO BID.
2. CONTRACTOR TO COORDINATE WITH ELECTRICAL AND MECHANICAL PLANS FOR LOCATIONS OF ALL EXISTING AND NEW EQUIPMENT, SYSTEMS, AND DEVICES.
3. AS SOME DEMOLITION WORK WILL BE SPECIFIC TO DIVISION 22, 23, 26, THE CONTRACTOR SHALL CROSS REFERENCE WITH ELECTRICAL AND MECHANICAL PLANS FOR ADDITIONAL DEMOLITION WHICH IS REQUIRED, BUT NOT REFLECTED ON ARCHITECTURAL DRAWINGS.
4. CONTRACTOR SHALL TAKE ALL PRECAUTIONS NECESSARY TO PROTECT THE EXISTING STRUCTURE, FINISHES, AND SITE ELEMENTS NOT CALLED FOR DEMOLITION DURING REMODEL OF WALLS, FLOORING MATERIAL, CASEWORK, DOORS, WINDOWS, CEILINGS, AND SITE.
5. CONTRACTOR MUST COORDINATE WORK HOURS WITH OWNER OR PROJECT REPRESENTATIVE PRIOR TO COMMENCEMENT OF WORK. APPROVAL OF PROPOSED SCHEDULE IS REQUIRED PRIOR TO COMMENCING ANY WORK. CONSTRUCTION RELATED ACTIVITIES SHALL NOT OBSTRUCT THE PROCESS OF DAY TO DAY WORK ON SITE UNLESS SPECIFICALLY APPROVED IN ADVANCE BY THE PROJECT REPRESENTATIVE. AFTER HOURS OR WEEKEND WORK SHALL BE EMPLOYED TO AVOID ADVERSE IMPACTS TO TENANT EMPLOYEES.
6. ALL EXISTING INTERIOR FINISHES, MATERIALS, STRUCTURE, SYSTEMS, LANDSCAPING, AND SITE FEATURES, ETC., NOT IDENTIFIED FOR DEMOLITION THAT ARE DAMAGED DURING THE PROCESS OF CONSTRUCTION SHALL BE RESTORED TO THEIR ORIGINAL CONDITION OR REPLACED TO MATCH AT THE CONTRACTORS EXPENSE.
7. ALL EXISTING FIRE RATINGS, AND ASSOCIATED FIRE PROTECTION SYSTEMS (I.E. FIRE SPRINKLERS AND FIRE ALARM SYSTEMS) ARE TO BE MAINTAINED THROUGHOUT CONSTRUCTION IN OCCUPIED SPACES. ANY INTERRUPTION TO THESE SYSTEMS SHALL BE COORDINATED WITH THE OWNER AND FIRE MARSHALS OFFICE. CONTRACTOR IS RESPONSIBLE FOR ANY FIRE WATCH REQUIREMENTS ASSOCIATED WITH INTERRUPTIONS TO THESE EXISTING SYSTEMS
8. THE MAINTENANCE OF ADEQUATE FIRE EGRESS FOR OCCUPANTS IN THE EXISTING BUILDING SHALL BE COORDINATED WITH THE OWNER AND FIRE MARSHALS OFFICE. CONTRACTOR SHALL PROVIDE ALL NECESSARY TEMPORARY WALLS OR ENCLOSURES, EMERGENCY LIGHTS, ETC., FOR THE DURATION OF THE CONSTRUCTION.
9. CONTRACTOR SHALL REMOVE AND DISPOSE OF ALL FLOORING, WALLS, & CEILING SYSTEMS AS SHOWN ON THE DRAWINGS.
10. CONTRACTOR TO MAINTAIN EXISTING FIRE RATED ELEMENTS IN BUILDING - REPAIR IF DAMAGED.
11. CONTRACTOR TO MAINTAIN ACCESS TO STAIRS DURING CONSTRUCTION. TYP.
12. ALL ADJACENT SURFACES DAMAGED DUE TO WORK UNDER THIS CONTRACT SHALL BE PATCHED & FINISHED TO MATCH EXISTING ADJACENT SURFACES.
13. CONTRACTOR TO PROVIDE DUSTPROOF ENCLOSURES AT PERIMETER OF AREAS OF CONSTRUCTION & DEMOLITION FOR PROTECTION OF ADJACENT SPACES.
14. PATCH & LEVEL EXISTING CONCRETE SLABS AS REQUIRED FOR NEW FINISHES WITH FLOOR LEVELING COMPOUND AS APPROVED BY ARCHITECT.
15. THE GENERAL CONTRACTOR SHALL BRING TO THE ATTENTION OF THE ARCHITECT FOR IMMEDIATE RESOLUTION, ANY CODE VIOLATIONS, INCORRECT CONSTRUCTIONS OR SAFETY PROBLEMS THAT ARE EXISTING FIELD CONDITIONS.
16. THE GENERAL CONTRACTOR IS RESPONSIBLE TO COORDINATE SCOPE IN REMODEL AND NEW CONSTRUCTION AS INDICATED ON ALL ARCHITECTURAL, STRUCTURAL, ELECTRICAL AND MECHANICAL SHEETS AND COORDINATE AND PROVIDE DEMOLITION AS NEEDED. WORK AS DESCRIBED FOR REMODEL OR ADDITION THAT IS IN CONFLICT WITH EXISTING CONDITION IS TO BE BROUGHT TO THE ATTENTION OF THE ARCHITECT PRIOR TO DEMOLITION.

## DEMOLITION LEGEND

- DASHED LINES DENOTES ITEM(S) TO BE DEMOLISHED
- SHADED AREA DENOTES EXTENTS OF STRUCTURAL AND FLOOR PLAN DEMOLITION
- AREA TO REMAIN UNDISTURBED DURING CONSTRUCTION PHASE
- BID ALTERNATE #1: REMOVE AND REPLACE GREEN PORTIONS OF ATHLETIC FLOOR. REPLACE WITH RUBBER ATHLETIC FLOORING.

## KEYED NOTES

VCBO
ARCHITECTURE
VALENTINER
CRANE
BRUNJES
ONYON

VCBO ARCHITECTURE
524 SOUTH 600 EAST
SALT LAKE CITY, UT 84102
Phone: (801) 575-8800
Fax: (801) 531-9850
WWW: www.vcbo.com

DFCM CODE COMPLIANCE STAMP

# Student Activity Center
## Stromberg Addition - BID SET
Weber State University
3750 Harrison Blvd. Ogden, UT 84408

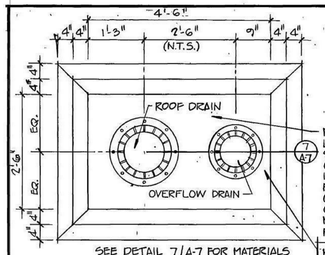
| Rev # | Date | Description |
|---|---|---|

Job # 12475
CAD File
Drawn Author Checked Checker
Date 10.03.2012
Owner # DFCM #12031810

DEMOLITION INTERIOR ELEVATIONS

AD411

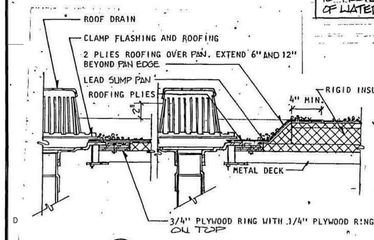
10/3/2012 1:12:51 PM



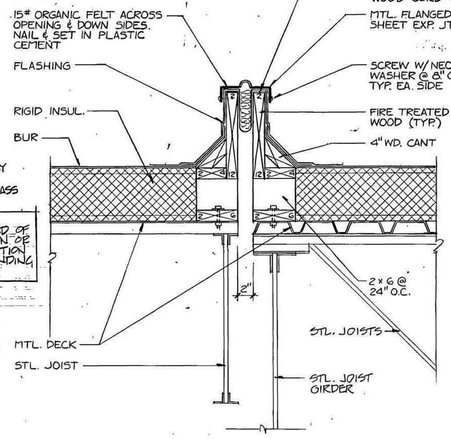

SEE DETAIL 7/A-7 FOR MATERIALS

6 A-7 **ROOF DRAIN PLAN** 3/4" = 1'-0"

NOTE: BUILD UP LOW END OF SUMP W/ BITUMEN OR TAPERED INSULATION TO PREVENT PONDING OF WATER.



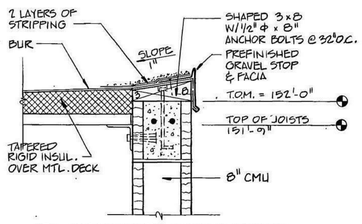

7 A-7 **ROOF DRAIN DETAIL** 1/2" = 1'-0"



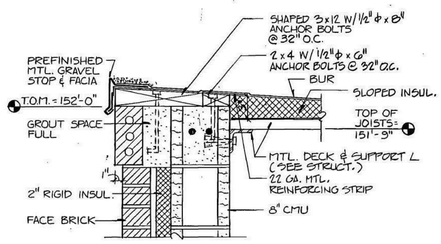

1 A-7 **EXPANSION JT. DETAIL** 1 1/2" = 1'-0"

**ROOF INSULATION SYSTEMS**

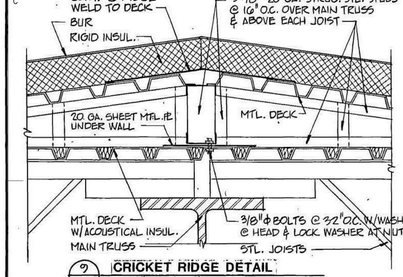
1. 1-1/2" PERLITE (BELOW VAPOR BARRIER) 1.6# POLYISOCYANURATE 1.9" PERLITE/POLYISO.
2. 1-1/2" EXTRUDED POLYSTYRENE
3. 1-1/2" PERLITE (BELOW VAPOR BARRIER) 1.8# POLYISO. 3-1/4" TO 3/4" TAPERED PERLITE.
4. 3" TO 1-1/2" TAPERED PERLITE
5. 1-1/2" PERLITE (BELOW VAPOR BARRIER) 1.8# POLYISO. 5-1/4" TO 3/4" TAPERED PERLITE.
6. 1-1/2" PERLITE (BELOW VAPOR BARRIER) 1.8# POLYISO. 3/4" PERLITE TAPERED PERLITE CRICKETS (1/4"/FT. MIN. SLOPE, 3/4" MIN. THICKNESS).
7. 1-1/2" PERLITE
8. 5" TO 1-1/2" TAPERED PERLITE.



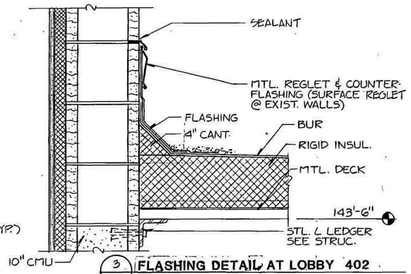

8 A-7 **ROOF DETAIL AT ELEV. TOWER** 1 1/2" = 1'-0"



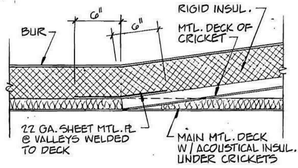

2 A-7 **ROOF DETAIL AT ELEV. TOWER** 1 1/2" = 1'-0"



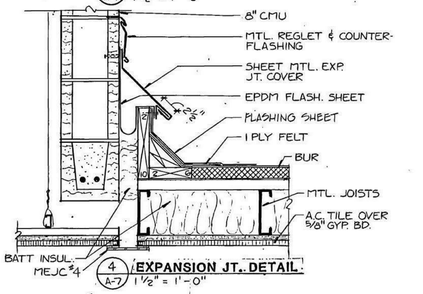

9 A-7 **CRICKET RIDGE DETAIL** 1 1/2" = 1'-0"



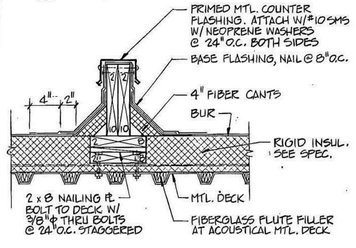

3 A-7 **FLASHING DETAIL AT LOBBY 402** 1 1/2" = 1'-0"



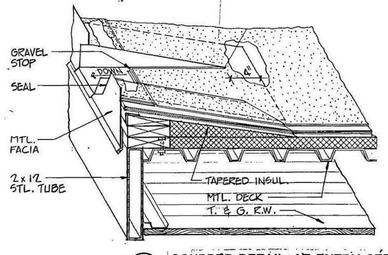

10 A-7 **CRICKET VALLEY DETAIL** 1 1/2" = 1'-0"




4 A-7 **EXPANSION JT. DETAIL** 1 1/2" = 1'-0"



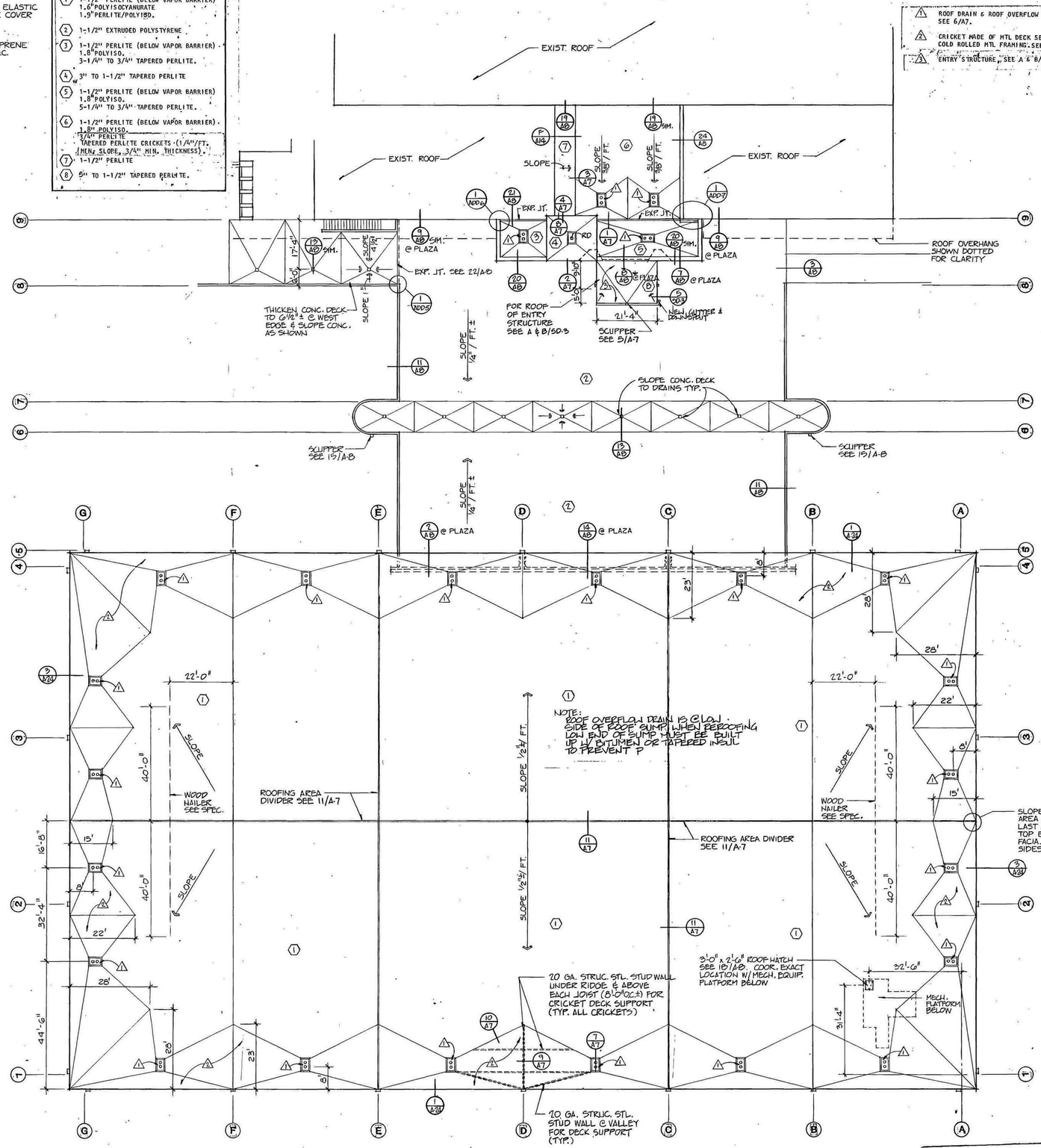

11 A-7 **AREA DIVIDER DETAIL** 1 1/2" = 1'-0"




5 A-7 **SCUPPER DETAIL AT ENTRY STRUCTURE** 1 1/2" = 1'-0"

**KEYED NOTES:**

1. ROOF DRAIN & ROOF OVERFLOW DRAIN SEE 6/A7.
2. CRICKET MADE OF MTL DECK SET ON COLD ROLLED MTL FRAMING. SEE 9&10/A7
3. ENTRY STRUCTURE, SEE A & B/SD3




A A-7 **ROOF PLAN** 1/16" = 1'-0"

**NOTE: THIS SHEET IS COMPRISED OF DRAWINGS AND DETAILS FROM THE ORIGINAL 1990 BUILDING CONSTRUCTION CONFORMED SET & HAS BEEN INCLUDED FOR INFORMATIONAL PURPOSES ONLY. CONDITIONS SHOWN ON THIS SHEET HAVE NOT BEEN VERIFIED WITH EXISTING CONSTRUCTED CONDITIONS.**

RECORD DOCUMENTS JUN 21 1990

THESE DOCUMENTS HAVE BEEN REVISED TO RECORD INFORMATION SUBMITTED BY THE CONTRACTOR. WHILE THEY ARE ASSUMED TO BE RELIABLE THE ARCHITECT DOES NOT GUARANTEE THEIR ACCURACY.

ANTICIPATED EXISTING CONDITIONS AT ROOF

AE104

VCBO ARCHITECTURE
524 SOUTH 600 EAST
SALT LAKE CITY, UT 84102
Phone: (801) 575-8800
Fax: (801) 531-9850
www: www.vcbo.com

VCBO ARCHITECTURE
VALENTINER CRANE BRUNJES ONYON

LICENSED ARCHITECT 339292 BRENT R. TIPPETS 10-2-12 STATE OF UTAH

DFCM CODE

NOTE: THIS SHEET IS COMPRISED OF DRAWINGS AND DETAILS FROM THE ORIGINAL 1990 BUILDING CONSTRUCTION CONFORMED SET & HAS BEEN INCLUDED FOR INFORMATIONAL PURPOSES ONLY. CONDITIONS SHOWN ON THIS SHEET HAVE NOT BEEN VERIFIED WITH EXISTING CONSTRUCTED CONDITIONS.

# Student Activity Center
## Stromberg Addition - BID SET
Weber State University
3750 Harrison Blvd. Ogden, UT 84408

| Rev # | Date | Description |
|---|---|---|

D0000TVA7 Weber State College: Physical Education Facility - RW/84-068 Roof Plan & Details - Stromberg

Job # 12475
CAD File
Drawn Author Checked Checker
Date 10.03.2012
Owner # DFCM #12031810

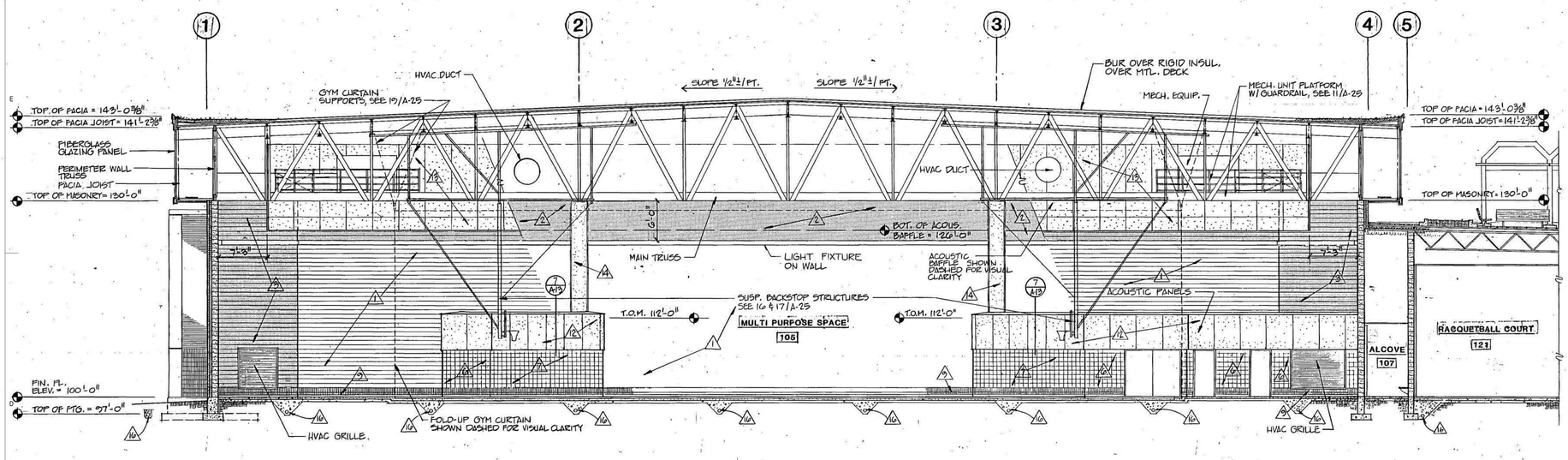
10/3/2012 1:13:00 PM

## KEYED NOTES

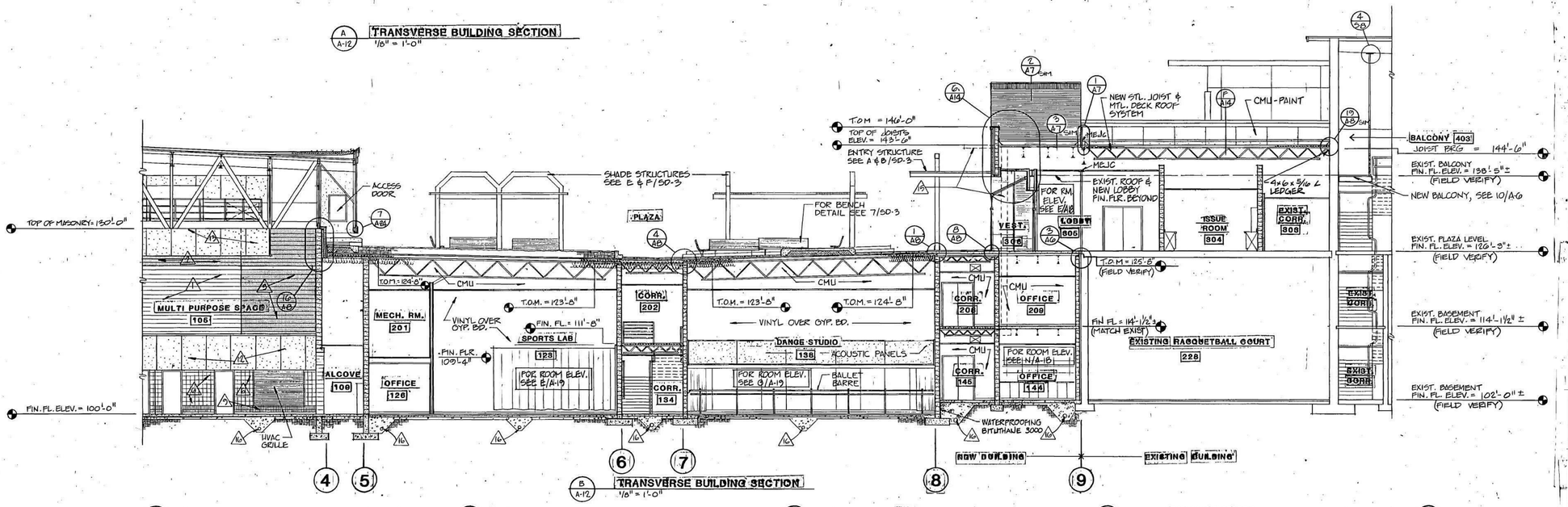
1. 12"x8"x16" CMU, FLUSH CUT JTS.
2. 12"x8"x16" CMU, SPLIT FACED
3. 6"x8"x16" CMU, SPLIT FACED
4. 4"x8"x16" CMU, SCORED AT 8" O.C., RAKED JTS. (VENEER)
5. 6"x8"x16" CMU, SCORED AT 8" O.C. STACK BOND, RAKED JTS.
6. 8"x8"x16" CMU, SCORED AT 8" O.C., STACK BOND, RAKED JTS.
7. 8"x8"x8" CMU, STACK BOND, RAKED JTS., (AT RADIUS)
8. NOT USED
9. TYPICAL BASE TO CONSIST OF 1 COURSE 4" HIGH STD. CMU WITH FLUSH CUT JTS. 1 COURSE 4" HIGH AND 1 COURSE 8" HIGH CMU SCORED 6/UNIT WITH RAKED JOINTS.
10. NOT USED
11. NOT USED
12. ACOUSTIC PANELS (TYPE B)
13. ACOUSTIC BAFFLE, EACH PANEL -4'X12'X 0'-2". PANELS TO BE CONTINUOUS AROUND MULTIPURPOSE SPACE(EXCEPT AT VIEW WINDOW). AT EAST AND WEST WALLS CENTER PANELS IN BAYS AND NOTCH END PANEL OF EACH BAY 7". SEE SPECIFICATIONS.
14. EXPOSED CONCRETE PIERS WITH SPECIAL CONCRETE FINISH (SANDBLAST) DO NOT PAINT. SEE SPEC. FOR SEALER.
15. REMOVE EXISTING STRUCTURE WEST OF GRID LINE 9. ALSO REMOVE EXISTING ROOF SYSTEM AT LOBBY 305, ISSUE ROOM 304 & CORRIDOR 303.
16. FOUNDATION DRAIN, SEE SHEETS P1, P2 & P3.

## GENERAL NOTES

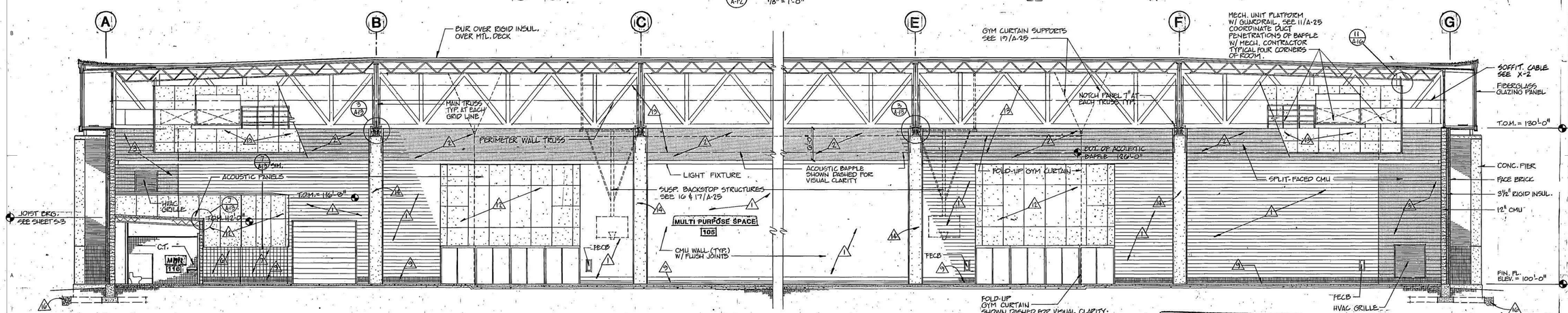
1. SPLIT FACED CMU TO RECEIVE DIFFERENT COLOR PAINT THAN OTHER CMU.
2. MAIN TRUSSES TO RECEIVE DIFFERENT COLOR PAINT THAN STEEL JOISTS AND ROOF DECK.
3. ALL CMU BELOW GRADE (1 OR BOTH SIDES) SHALL BE NORMAL WEIGHT AND GROUTED SOLID.
4. PROVIDE WATERPROOFING MEMBRANE ON ALL WALLS OF ROOMS BELOW GRADE, ON EARTH SIDE.




A A-12 **TRANSVERSE BUILDING SECTION**
1/16" = 1'-0"




B A-12 **TRANSVERSE BUILDING SECTION**
1/8" = 1'-0"




C A-12 **LONGITUDINAL BUILDING SECTION**
1/8" = 1'-0"

**NOTE: THIS SHEET IS COMPRISED OF DRAWINGS AND DETAILS FROM THE ORIGINAL 1990 BUILDING CONSTRUCTION CONFORMED SET & HAS BEEN INCLUDED FOR INFORMATIONAL PURPOSES ONLY. CONDITIONS SHOWN ON THIS SHEET HAVE NOT BEEN VERIFIED WITH EXISTING CONSTRUCTED CONDITIONS.**

RECORD DOCUMENTS JUN 25 1990
THESE DOCUMENTS HAVE BEEN REVISED TO RECORD INFORMATION SUBMITTED BY THE CONTRACTOR. WHILE THEY ARE ASSUMED TO BE RELIABLE THE ARCHITECT DOES NOT GUARANTEE THEIR ACCURACY.

0000TVA12
Weber State College; Physical Education Facility - RW.84-058
Building Sections - 26690


VCBO ARCHITECTURE
VALENTINER CRANE BRUNJES ONYON
LICENSED ARCHITECT 13392 BRENT R. TIPPETS 10-2-12 STATE OF UTAH
VCBO ARCHITECTURE
524 SOUTH 600 EAST
SALT LAKE CITY, UT 84102
Phone: (801) 575-8800
Fax: (801) 531-9850
www: www.vcbo.com


DFCM CODE

NOTE: THIS SHEET IS COMPRISED OF DRAWINGS AND DETAILS FROM THE ORIGINAL 1990 BUILDING CONSTRUCTION CONFORMED SET & HAS BEEN INCLUDED FOR INFORMATIONAL PURPOSES ONLY. CONDITIONS SHOWN ON THIS SHEET HAVE NOT BEEN VERIFIED WITH EXISTING CONSTRUCTED CONDITIONS.

# Student Activity Center
## Stromberg Addition - BID SET
Weber State University
3750 Harrison Blvd. Ogden, UT 84408

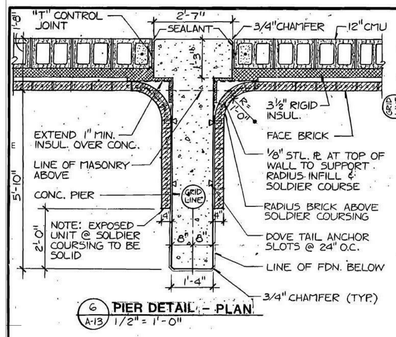
| Rev # | Date | Description |
|---|---|---|

Job # 12475
CAD File
Drawn Author Checked Checker
Date 10.03.2012
Owner # DFCM #12031810

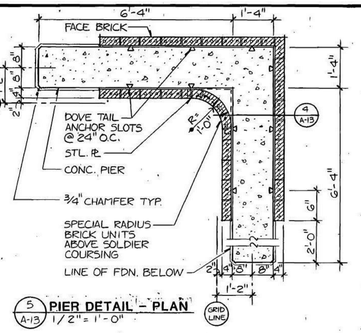
ANTICIPATED EXISTING CONDITIONS - BUILDING SECTIONS

AE301

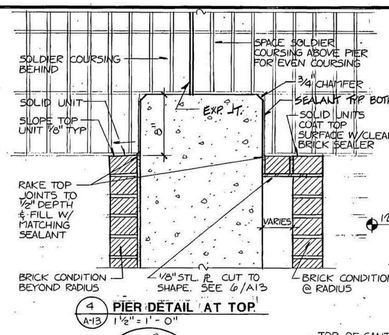
10/3/2012 1:13:04 PM



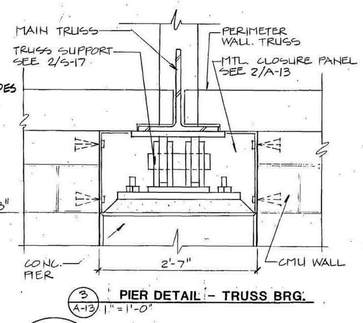

6 A-13 **PIER DETAIL - PLAN** 1/2" = 1'-0"



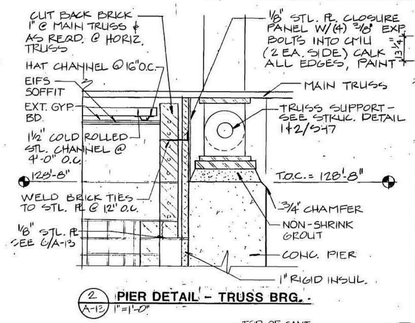

5 A-13 **PIER DETAIL - PLAN** 1/2" = 1'-0"



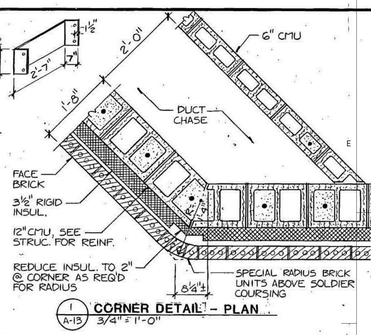

4 A-13 **PIER DETAIL AT TOP** 1 1/2" = 1'-0"



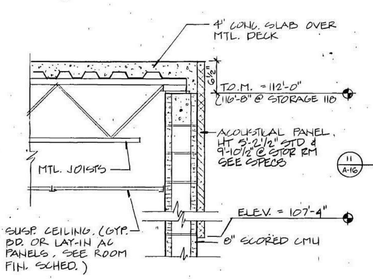

3 A-13 **PIER DETAIL - TRUSS BRG.** 1" = 1'-0"



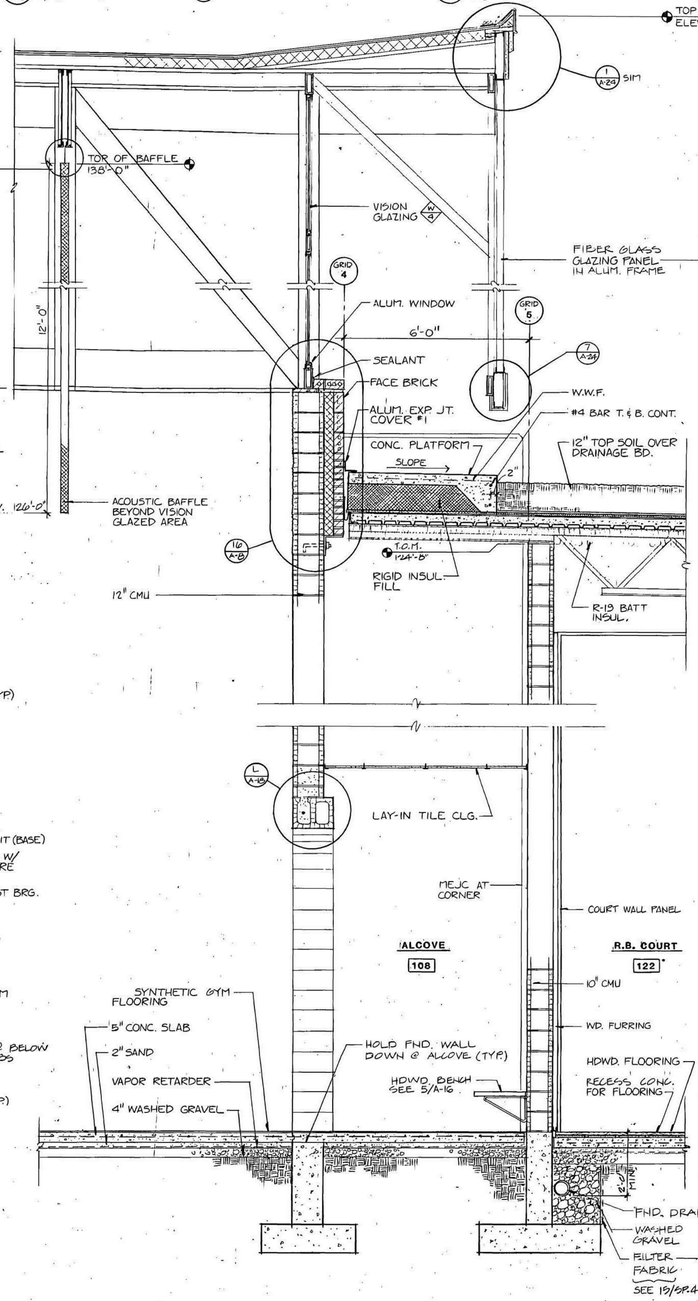

2 A-13 **PIER DETAIL - TRUSS BRG.** 1" = 1'-0"



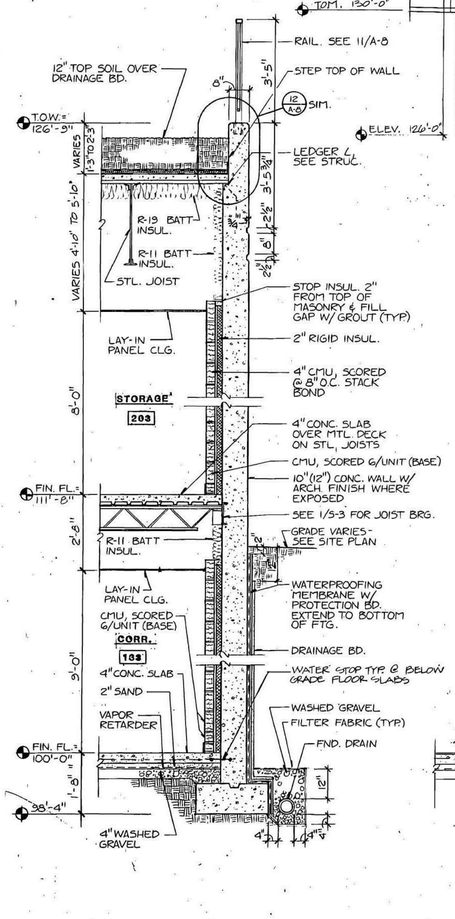

1 A-13 **CORNER DETAIL - PLAN** 3/4" = 1'-0"



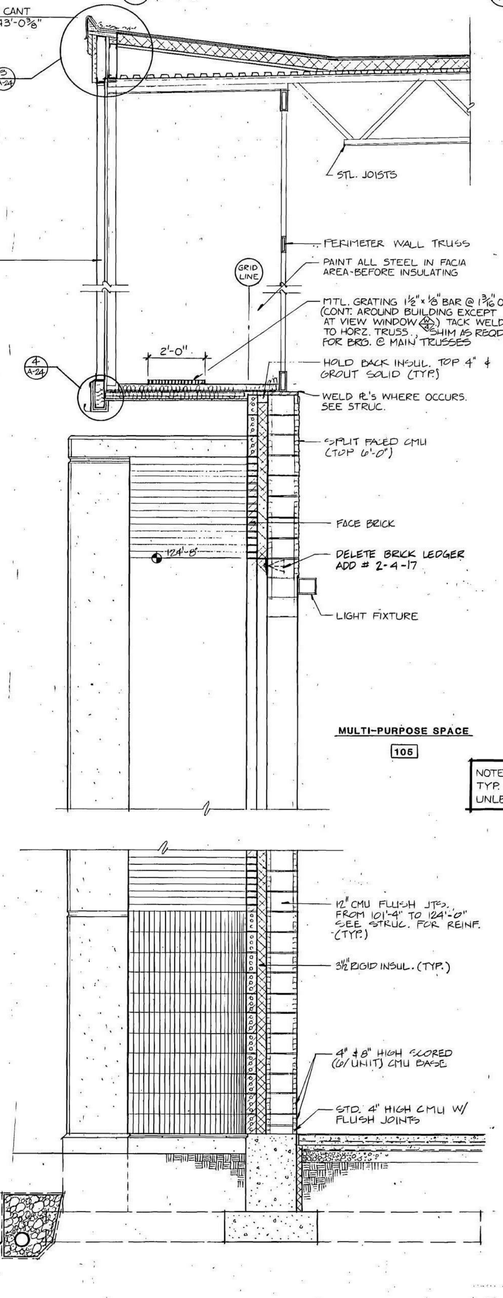

7 A-13 **WALL SECTION** 3/4" = 1'-0"



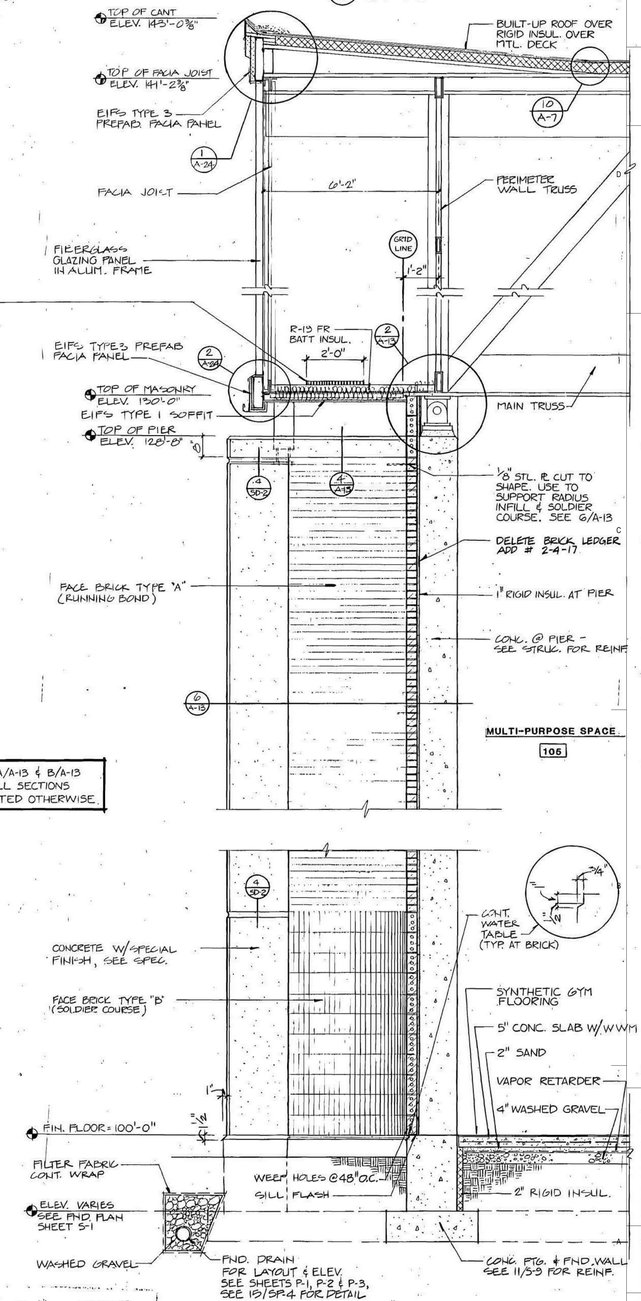

D A-13 **SOUTH WALL SECTION-PLAZA** 1/2" = 1'-0"




C A-13 **EAST WALL SECTION** 1/2" = 1'-0"




B A-13 **NORTH/SOUTH WALL SECTION** 1/2" = 1'-0"




A A-13 **WEST WALL SECTION AT PIER** 1/2" = 1'-0"

JUN 2 1990

DOES NOT

0000TVA13
Weber State College; Physical Education Facility - RW 84-058
Wall Sections - 26691

**NOTE: THIS SHEET IS COMPRISED OF DRAWINGS AND DETAILS FROM THE ORIGINAL 1990 BUILDING CONSTRUCTION CONFORMED SET & HAS BEEN INCLUDED FOR INFORMATIONAL PURPOSES ONLY. CONDITIONS SHOWN ON THIS SHEET HAVE NOT BEEN VERIFIED WITH EXISTING CONSTRUCTED CONDITIONS.**

NOTE: THIS SHEET IS COMPRISED OF DRAWINGS AND DETAILS FROM THE ORIGINAL 1990 BUILDING CONSTRUCTION CONFORMED SET & HAS BEEN INCLUDED FOR INFORMATIONAL PURPOSES ONLY. CONDITIONS SHOWN ON THIS SHEET HAVE NOT BEEN VERIFIED WITH EXISTING CONSTRUCTED CONDITIONS.

VCBO ARCHITECTURE
VALENTINER RANE RUNJES ANYON
LICENSED ARCHITECT 13392 BRENT R. TIPPETS 10-2-12 STATE OF UTAH
VCBO ARCHITECTURE
524 SOUTH 600 EAST
SALT LAKE CITY, UT 84102
Phone: (801) 575-8800
Fax: (801) 531-9850
www: www.vcbo.com

DFCM CODE

# Student Activity Center
## Stromberg Addition - BID SET
Weber State University
3750 Harrison Blvd. Ogden, UT 84408

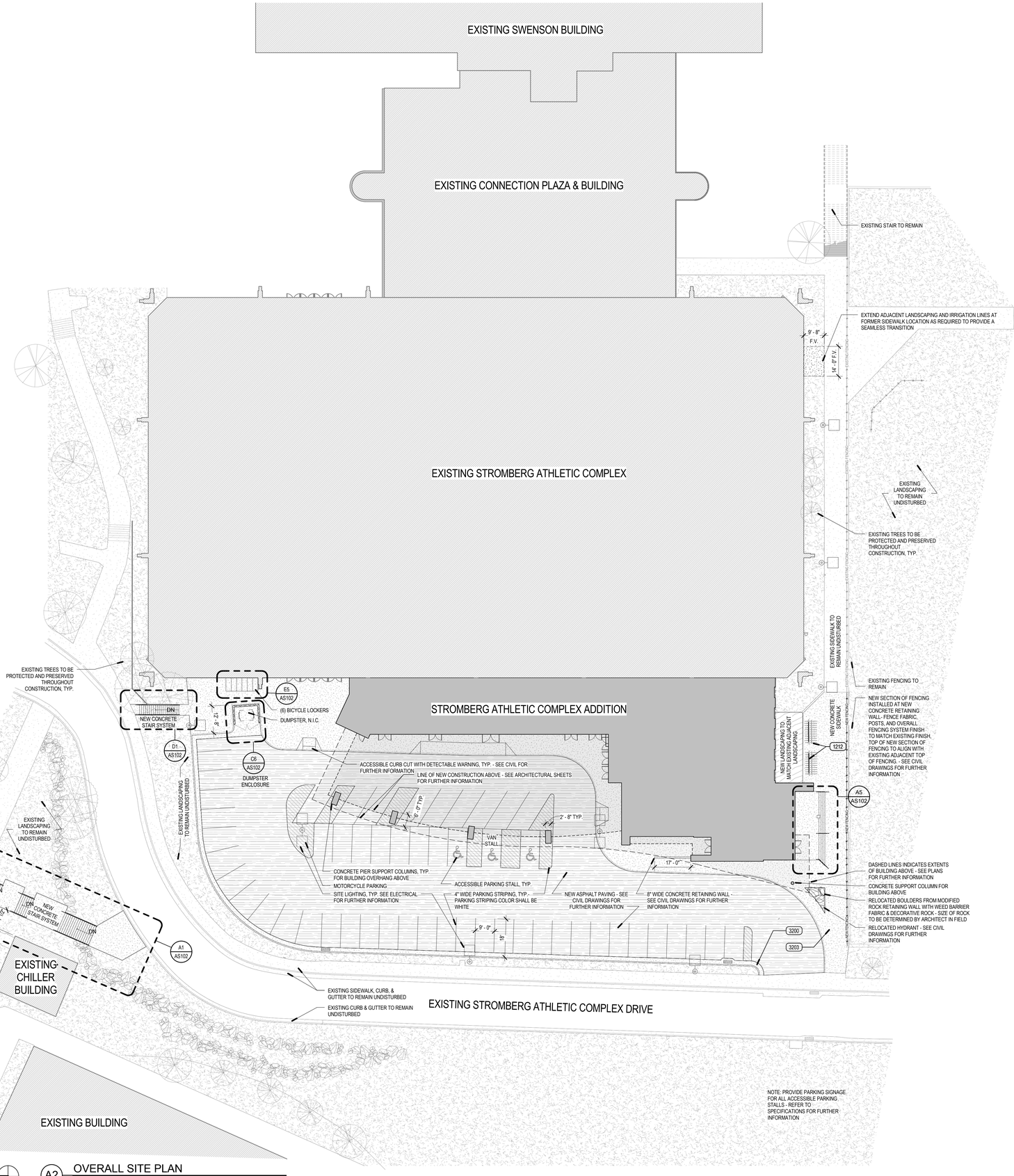
| Rev # | Date | Description |
|---|---|---|

Job # 12475
CAD File
Drawn Author Checked Checker
Date 10.03.2012
Owner # DFCM #12031810

ANTICIPATED EXISTING CONDITIONS - WALL SECTIONS

AE401

10/3/2012 1:13:07 PM




A2 OVERALL SITE PLAN

SCALE: 1" = 20'-0"

0' 10' 20' 40'

## GENERAL SITE PLAN NOTES

1. GRADING AT THE BUILDING SHALL HAVE A 5% MINIMUM SLOPE AWAY FROM THE BUILDING FOR A MINIMUM OF 10'-0", UNO. CONCRETE SHALL BE SLOPED 2% AWAY FROM BUILDING.
2. FOUNDATION TO BE 8" ABOVE FINISHED GRADE UNO
3. ALL CONNECTIONS FROM CITY STREETS TO THE BUILDING ARE TO BE PROVIDED UNDER THIS CONTRACT. CONTRACTOR TO VERIFY CITY STANDARDS FOR ROAD, CURB, UTILITY AND SIGNAGE REQUIREMENTS.
4. ALL EXTERIOR SIDEWALKS, STAIRS AND LANDINGS TO HAVE POSITIVE DRAINAGE BUT NO MORE THAN A MAXIMUM OF 1/4" SLOPE PER FOOT TO ALLOW POSITIVE DRAINAGE. ALL STAIRS AND RAMPS TO HAVE A LANDING OF 48 INCHES LONG AT THE TOP AND BOTTOM WITH A MAXIMUM SLOPE OF 1/4" PER FOOT. ALL REBAR IN EXTERIOR APPLICATIONS TO BE EPOXY COATED.
5. ALL EXTERIOR SIDEWALK TO BE A MINIMUM OF 4" THICK AIR ENTRAINED CONCRETE OVER 6" ROAD BASE, UNO, AND ALL SIDEWALKS SHALL BE NO LESS THAN 5'-0" WIDE.
6. FINISH GRADE OF SOFTSCAPE SHALL BE 2" UNIFORMLY BELOW PAVING SURFACES UNLESS NOTED OTHERWISE.
7. ALL TOPSOIL SHALL BE STRIPPED, STOCKPILED, PROTECTED & QUANTIFIED PRIOR TO ANY EXCAVATION PROCEDURES TO ENSURE VIABILITY OF TOPSOIL AND AVOID ANY CONTAMINATION. GENERAL CONTRACTOR IS TO INFORM ARCHITECT PROMPTLY IN WRITING OF THE TOTAL AMOUNT OF TOPSOIL STOCKPILED, AND IF THE AMOUNT OF TOPSOIL AVAILABLE IS SUFFICIENT FOR THE INTENDED DISTRIBUTION.
8. 12" X 4" X CONTINUOUS MINIMUM CONCRETE MOW STRIP, TO BE PROVIDED AT EAST AND SOUTH PERIMETER OF LANDSCAPING WHERE IT TRANSITIONS TO SOD. SEE DETAIL C1/AS501
9. LIGHT POLE BASE IN ALL LANDSCAPE LOCATIONS TO BE 6" ABOVE FINISHED GRADE, BE LOCATED AT LEAST 36" FROM FACE OF POLE BASE TO BACK OF CURB AND HAVE A CONCRETE MOW STRIP PER DETAIL E5/AS501. VERIFY LOCATION ON SITE WITH ARCHITECT PRIOR TO ANY INSTALLATION.
10. LIGHT POLE BASE IN ALL PAVED LOCATIONS TO BE 36" ABOVE FINISHED GRADE. VERIFY LOCATION ON SITE WITH ARCHITECT PRIOR TO ANY INSTALLATION.
11. GRADE LINES SHOWN ARE FOR REFERENCE ONLY. REFER TO CIVIL DRAWINGS FOR MORE DETAILED GRADING PLANS.
12. COORDINATE ORIENTATION OF FIRE HYDRANT OUTLETS WITH THE FIRE MARSHALL'S OFFICE PRIOR TO THE FINAL INSTALLATION OF THE HYDRANT ASSEMBLY.
13. EXCAVATE 36" TYP. UNDER ALL FOOTINGS AND SLABS AS PART OF TOTAL BUILDING UNDER SLAB WATERPROOFING SYSTEM. SEE ARCHITECTURAL AND CIVIL DRAWINGS.
14. ALL PORTIONS OF THE FOUNDATION WALL, FOOTINGS, AND SLAB LOCATED BELOW GRADE SHALL BE WATERPROOFED.
15. AT ALL EXTERIOR CONCRETE FLAT WORK OVER EXCAVATE 1'-6" UNDER THE FLAT WORK AND REPLACE WITH STRUCTURAL FILL.
16. AT ALL EXTERIOR SITE WASLLS OVER EXCAVATE 3'-0" AS PER THE GEOTECHNICAL REPORT. THESE WALLS ARE , BUT NOT LIMITED TO, THE WALL AT GRID "J" AND EAST OF GRID "1", WALLS AROUND THE GENERATOR 100, WALLS AROUND THE TRANSFORMER AT GRIDS "8" AND "C", AND THE WALLS AT THE STAIR AT GRID "8" AND "C".

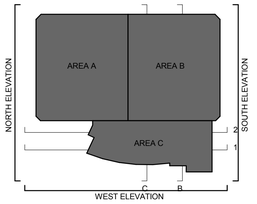
## SITE LEGEND

- DENOTES AREA TO REMAIN UNDISTURBED DURING CONSTRUCTION PHASE
- DENOTES AREA OF NEW CONSTRUCTION AND NEW CONSTRUCTION ABOVE
- DENOTES AREA OF NEW LANDSCAPING
- DENOTES AREA OF NEW CONCRETE SIDEWALK/ CURB & GUTTER

## KEYED NOTES

1212 BICYCLE RACKS
3200 CONC CURB AND GUTTER W/ SUBBASE
3203 4" THICK CONCRETE SIDEWALK U.N.0. W/ SAWCUT CONTROL JOINTS SEE DETAIL

## KEY PLAN




VCBO
ARCHITECTURE
VALENTINER
CRANE
BRUNJES
ONYON

REGISTERED ARCHITECT
STATE OF UTAH
BRENT R. TIPPETS
10-2-12

VCBO ARCHITECTURE
524 SOUTH 600 EAST
SALT LAKE CITY, UT 84102
Phone: (801) 575-8800
Fax: (801) 531-9850
WWW: www.vcbo.com

DFCM CODE COMPLIANCE STAMP

# Student Activity Center
## Stromberg Addition - BID SET
Weber State University
3750 Harrison Blvd. Ogden, UT 84408

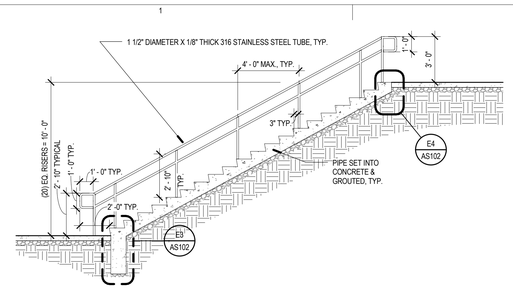
| Rev # | Date | Description |
|---|---|---|

Job # 12475
CAD File
Drawn Author Checked Checker
Date 10.03.2012
Owner # DFCM #12031810

OVERALL SITE PLAN

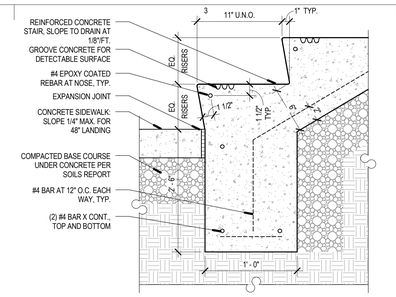
AS101

10/3/2012 3:41:24 PM




## E1 SITE STAIR SECTION AT EXISTING RETAINING WALL

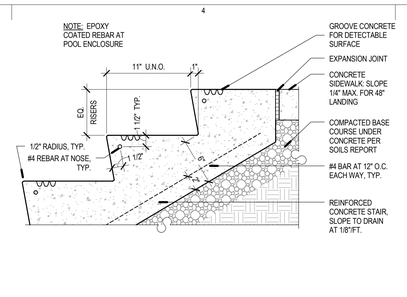
SCALE: 1/4" = 1'-0"




## E3 CONC. STAIR BASE

SCALE: 1 1/2" = 1'-0"

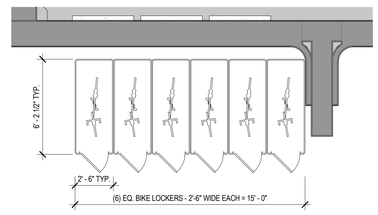
0' 1/2" 1" 1 1/2"




## E4 TOP OF CONC. STAIRS

SCALE: 1 1/2" = 1'-0"

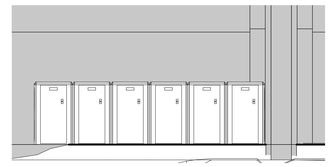
0' 1/2" 1" 1 1/2"




## E5 ENLARGED BIKE LOCKER PLAN

SCALE: 1/4" = 1'-0"

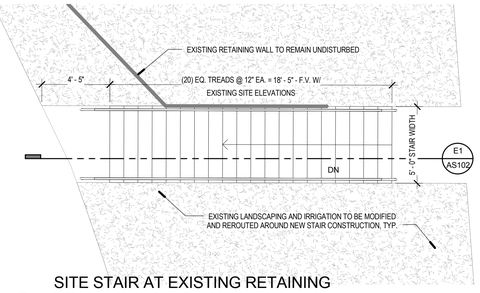
0' 2' 4' 8' 16'



## E6 BIKE LOCKER ELEVATION

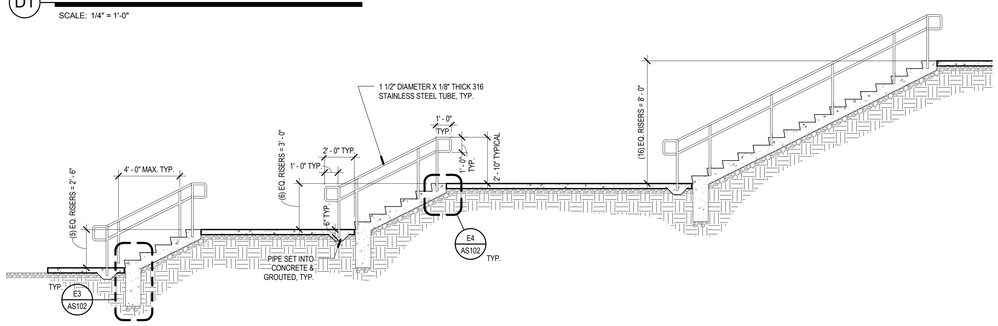
SCALE: 1/4" = 1'-0"

0' 2' 4' 8' 16'



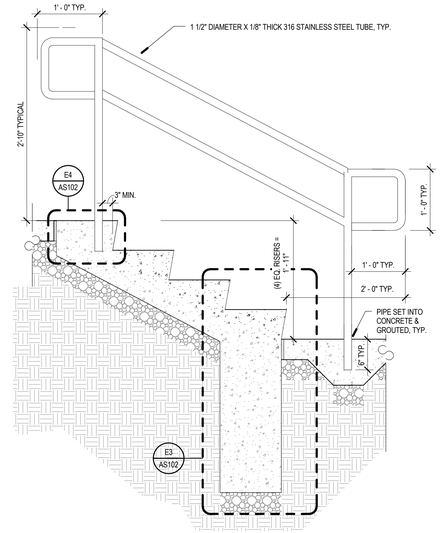

## D1 SITE STAIR AT EXISTING RETAINING WALL

SCALE: 1/4" = 1'-0"




## C1 SOUTHWEST STAIR

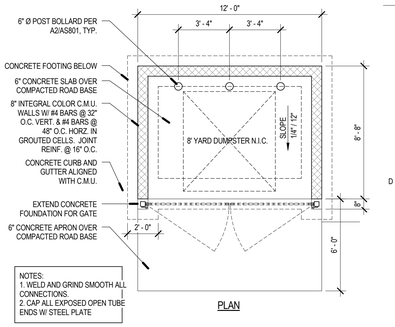
SCALE: 1/4" = 1'-0"



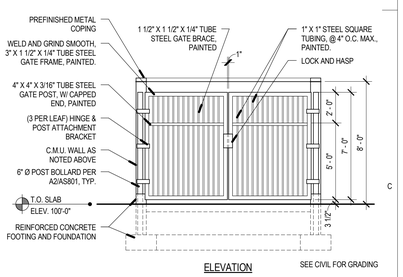

## C5 SITE STAIR SECTION

SCALE: 1" = 1'-0"

0' 6" 1' 2'




PLAN



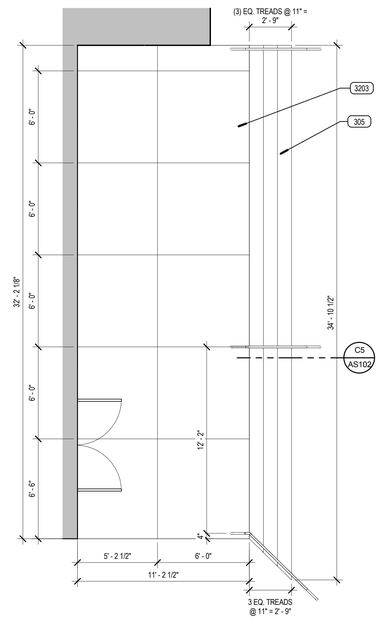

ELEVATION

SEE CIVIL FOR GRADING

## C6 DUMPSTER ENCLOSURE DETAIL

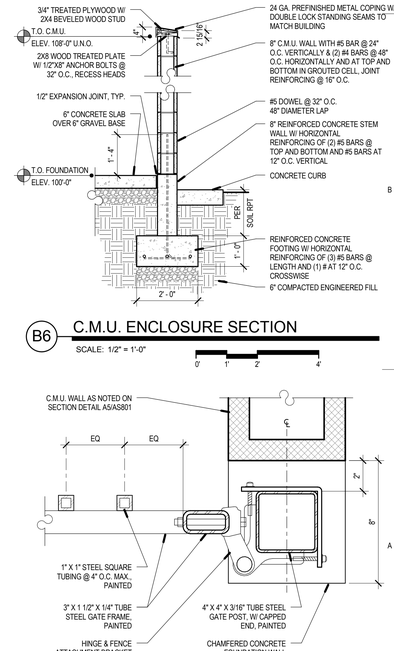
SCALE: 1/4" = 1'-0"

0' 2' 4' 8' 16'




## A5 ENTRY STAIR PLAN VIEW

SCALE: 1/4" = 1'-0"




## B6 C.M.U. ENCLOSURE SECTION

SCALE: 1/2" = 1'-0"

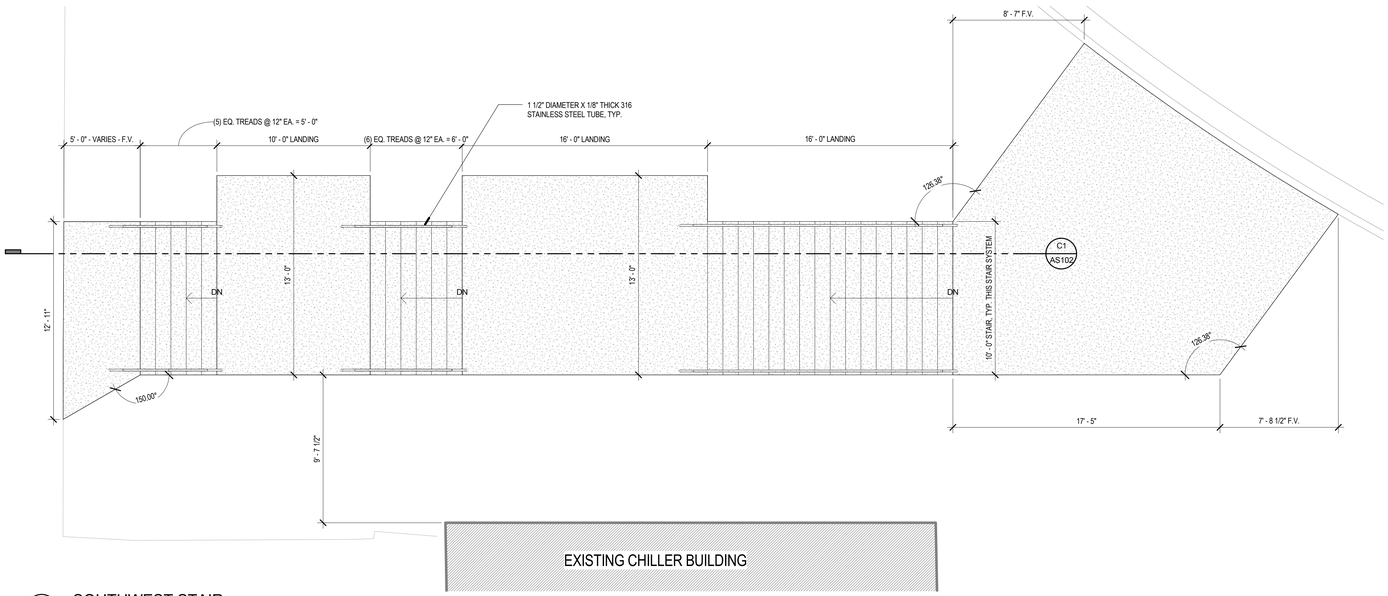
0' 1' 2' 4'




## A6 GATE JAMB DETAIL, (PLAN VIEW)

SCALE: 3" = 1'-0"

0' 1" 3" 6" 9"




## A1 SOUTHWEST STAIR

SCALE: 1/4" = 1'-0"


VCBO ARCHITECTURE
524 SOUTH 600 EAST
SALT LAKE CITY, UT 84102
Phone: (801) 575-8800
Fax: (801) 531-9850
www: www.vcbo.com


DFCM CODE COMPLIANCE STAMP

# Student Activity Center

Stromberg Addition - BID SET

Weber State University
3750 Harrison Blvd. Ogden, UT 84408

| Rev # | Date | Description |
|---|---|---|

Job # 12475
CAD File
Drawn Author Checked Checker
Date 10.03.2012
Owner # DFCM #12031810

SITE ENLARGED PLANS AND DETAILS

AS102

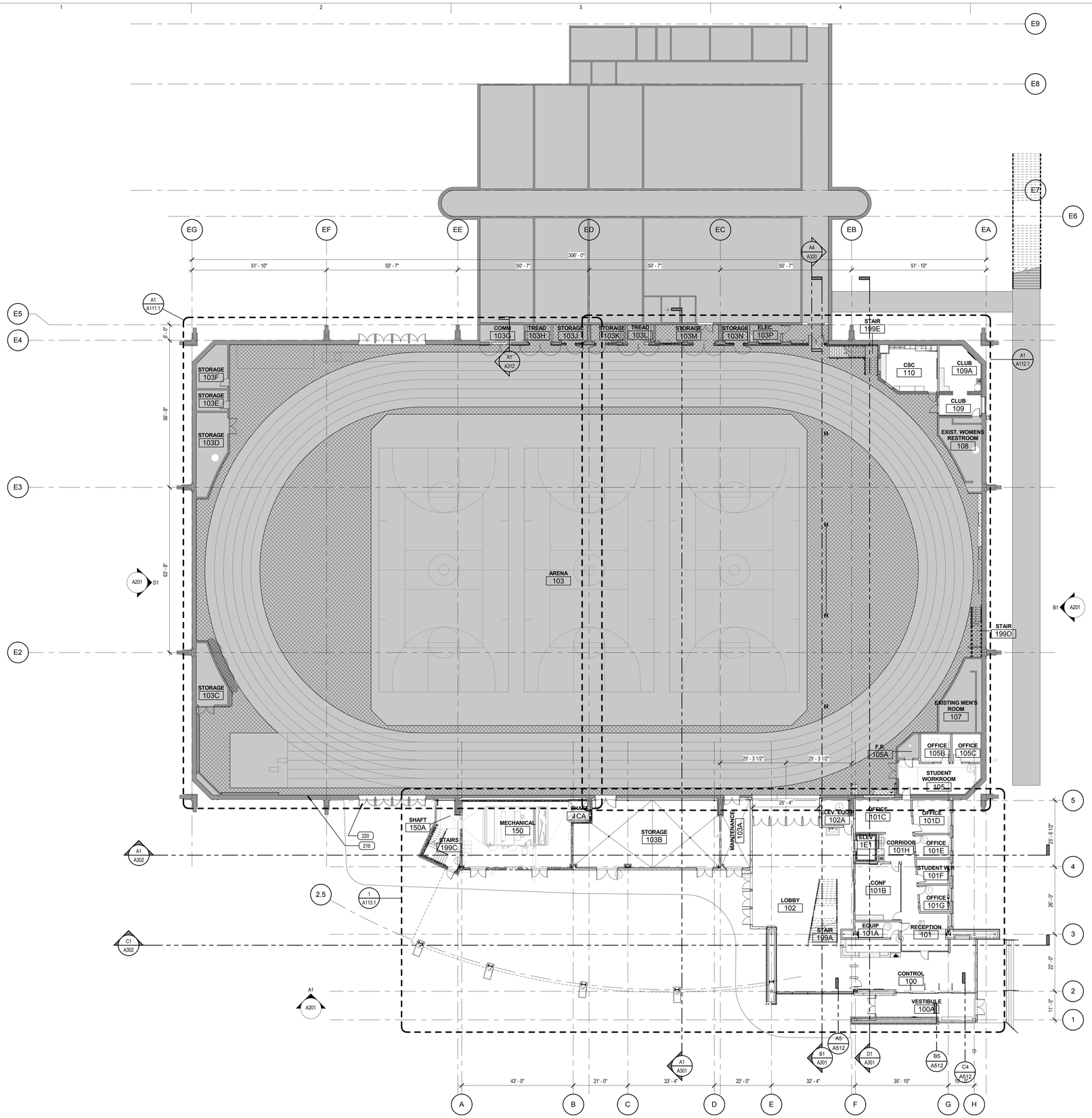
10/3/2012 3:41:33 PM

## KEYED NOTES

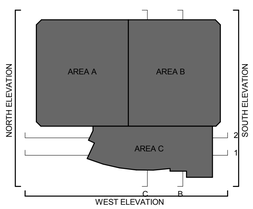
216 EXG WALL
220 EXG DOOR

## BID ALTERNATE #1 LEGEND

BID ALTERNATE #1: REMOVE AND REPLACE GREEN PORTIONS OF ATHLETIC FLOOR. REPLACE WITH RUBBER ATHLETIC FLOORING.




## KEY PLAN




A1 FIRST FLOOR PLAN
SCALE: 1/16" = 1'-0"
0' 8' 16' 32' 48'


VCBO ARCHITECTURE
524 SOUTH 600 EAST
SALT LAKE CITY, UT 84102
Phone: (801) 575-8800
Fax: (801) 531-9850
www: www.vcbo.com


DFCM CODE COMPLIANCE STAMP

# Student Activity Center
## Stromberg Addition - BID SET
Weber State University
3750 Harrison Blvd. Ogden, UT 84408

| Rev # | Date | Description |
|---|---|---|

Job # 12475
CAD File
Drawn Author Checked Checker
Date 10.03.2012
Owner # DFCM #12031810

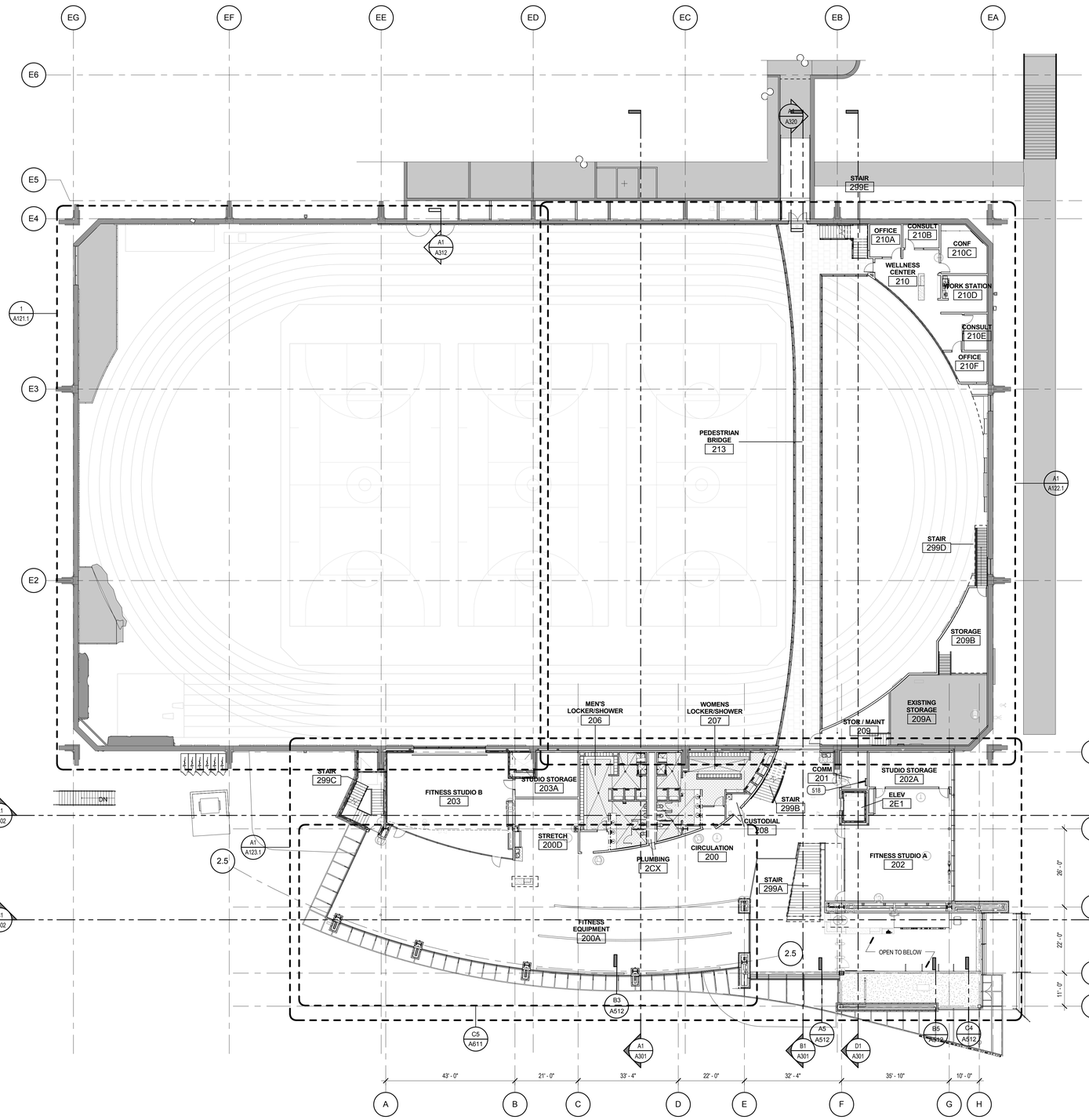
LEVEL 01 - OVERALL PLAN

A101

10/3/2012 3:08:57 PM

## KEYED NOTES

518 STEEL LADDER

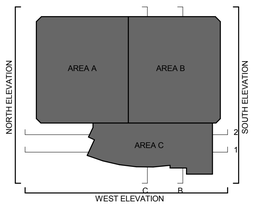



A1 LEVEL 02 - 0VERALL PLAN

SCALE: 1/16" = 1'-0"

0' 8' 16' 32' 48'

## KEY PLAN





VCBO

ARCHITECTURE
VALENTINER
CRANE
BRUNJES
ONYON

VCBO ARCHITECTURE
524 SOUTH 600 EAST
SALT LAKE CITY, UT 84102
Phone: (801) 575-8800
Fax: (801) 531-9850
WWW: www.vcbo.com


LICENSED ARCHITECT
No. 13392
BRENT R. TIPPETS
10-2-12
STATE OF UTAH

DFCM CODE COMPLIANCE STAMP

# Student Activity Center
## Stromberg Addition - BID SET
Weber State University
3750 Harrison Blvd. Ogden, UT 84408

| Rev # | Date | Description |
|---|---|---|

Job # 12475
CAD File
Drawn Author Checked Checker
Date 10.03.2012
Owner # DFCM #12031810

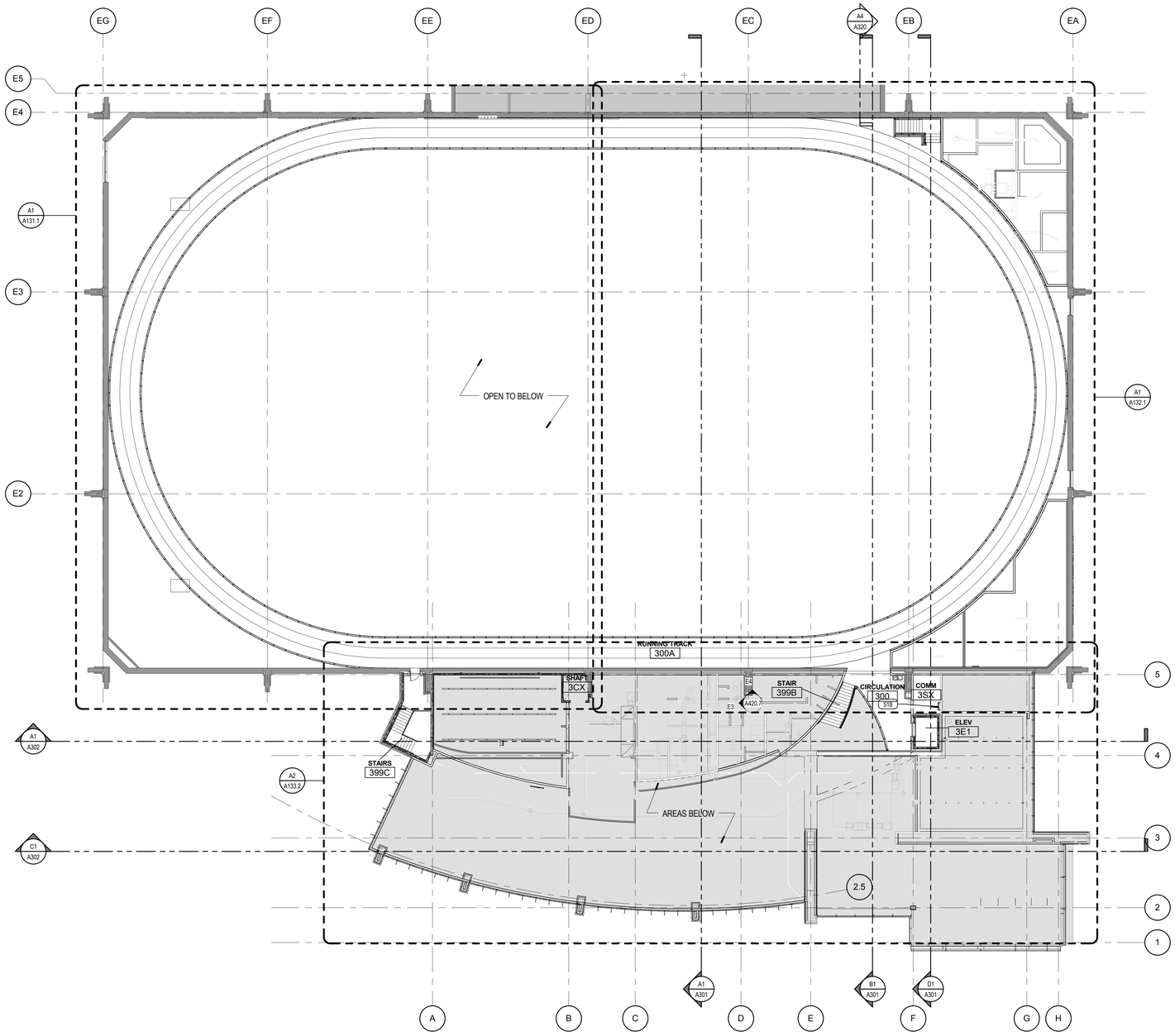
LEVEL 02 - OVERALL PLAN

A102

10/3/2012 3:09:07 PM

## KEYED NOTES

518 STEEL LADDER

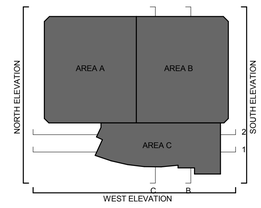



NORTH A1 LEVEL 03 - OVERALL PLAN

SCALE: 1/16" = 1'-0"

0' 8' 16' 32' 48'

## KEY PLAN





VCBO
ARCHITECTURE
VALENTINER
CRANE
BRUNJES
ONYON

LICENSED ARCHITECT
No. 13392
BRENT R. TIPPETS
10-2-12
STATE OF UTAH

VCBO ARCHITECTURE
524 SOUTH 600 EAST
SALT LAKE CITY, UT 84102
Phone: (801) 575-8800
Fax: (801) 531-9850
www: www.vcbo.com


DFCM CODE COMPLIANCE STAMP

# Student Activity Center
## Stromberg Addition - BID SET
Weber State University
3750 Harrison Blvd. Ogden, UT 84408

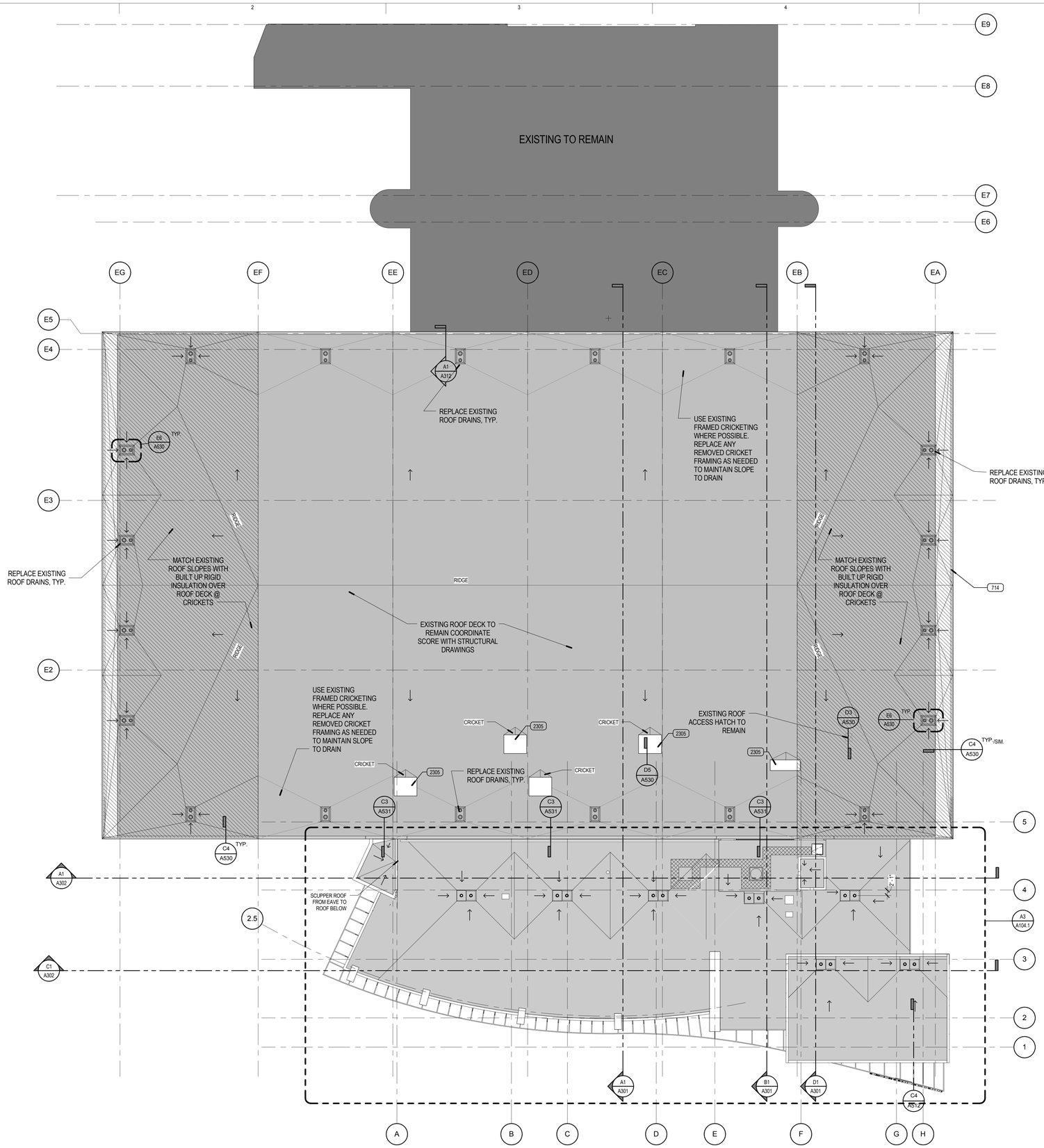
| Rev # | Date | Description |
|---|---|---|

Job # 12475
CAD File
Drawn Author Checked Checker
Date 10.03.2012
Owner # DFCM #12031810

LEVEL 03 - OVERALL PLAN

A103

10/3/2012 3:09:32 PM




NORTH

## A2 ROOF - OVERALL PLAN

SCALE: 1/16" = 1'-0"

0' 8' 16' 32' 48'

## KEYED NOTES

714 PRE-FINISHED CONT. METAL FLASHING
2305 MECHANICAL EQUIPMENT

## ROOF PLAN NOTES

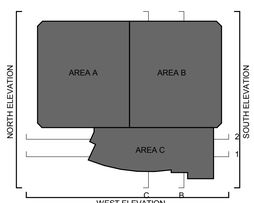
- STRUCTURE UPGRADE UNDER THIS PORTION OF EXISTING ROOF
- SINGLE PLY MEMBRANE ROOFING SYSTEM OVER TAPERED INSULATION MINIMUM SLOPES AT CRICKETS: 1/8" ALONG VALLEY, 1/4" ACROSS CRICKET & OVER FRAMED CRICKETING @ EXISTING LOCATIONS
- PROTECTIVE WALKABLE SURFACE
- DECK RIDGE OR VALLEY
- AREAS HATCHED AS SUCH SHALL NOT HAVE ANY PENETRATIONS THRU THE ROOF IN ORDED TO MAINTAIN THE 2 HOUR FIRE WALL ASSEMBLY LOCATED BELOW THE DECK (AS PER 2006 IBC SECTION 705.6.3)

T.O.I. TOP OF INSULATION
T.O.S. TOP OF STUD AT PARAPET
D.B. DECK BEARING

## GENERAL ROOF NOTES

1. ALL ROOF DECK IS TO BE COVERED IN R-30 INSULATION AND SPECIFIED ROOFING SYSTEM.
2. THE CONTRACTOR IS TO ASSURE THAT THE MINIMUM ROOF SLOPE IS NOT LESS THAN 1/2" PER FOOT. ANY AREA THAT IS LESS THAN 1/2" PER FOOT SLOPE SHALL BE ADJUSTED AT THE CONTRACTORS EXPENSE WITH CRICKETING TO PROVIDE THE REQUIRED SLOPE.
3. DECK BEARING ELEVATIONS SHOWN ON THIS SHEET ARE TO BE INCLUDED FOR ARCHITECTS REFERENCE ON ALL STEEL SHOP DRAWINGS.
4. ALL ROOFING CRICKETS ARE TO BE CONSTRUCTED OF TAPERED INSULATION. CRICKETS ARE TO BE INSTALLED SO THAT A SLOPE OF 1/4" PER FOOT IS MAINTAINED ACROSS THE FACE OF THE CRICKET.
5. PROVIDE CRICKETS AT **ALL** ROOF TOP MOUNTED EQUIPMENT (I.E. SKYLIGHTS, ROOF HATCHES, ETC.) TO ASSURE POSITIVE DRAINAGE AROUND SUCH ELEMENTS.
6. ALL FLASHING, COUNTER FLASHING AND SHEET METAL WORK TO COMPLY WITH THE MINIMUM STANDARDS PER THE CURRENT EDITION OF SMACNA.
7. NOT ALL ROOF MOUNTED EQUIPMENT AND ROOF PENETRATIONS ARE SHOWN ON THE ARCHITECTURAL ROOF PLAN SHEETS. IN ADDITION TO THE ARCHITECTURAL, THE CONTRACTOR IS RESPONSIBLE FOR REFERENCING THE STRUCTURAL, MECHANICAL AND ELECTRICAL DOCUMENTS FOR ALL SUCH OCCURRENCES. ALL PENETRATIONS OF THE ROOF SHALL MEET WITH THE ROOFING MANUFACTURER'S RECOMMENDATIONS TO MAINTAIN INTEGRITY OF ROOFING SYSTEMS.
8. THE CONTRACTOR IS RESPONSIBLE AT BIDDING, FOR PROVIDING A MANUFACTURER'S APPROVED ROOFING DETAIL FOR ALL ROOFING CONDITIONS SO THAT THE SPECIFIED WARRANTY IS OBTAINED. IF A CONDITION SHOWN IN THESE CONSTRUCTION DOCUMENTS DOES NOT MEET THE REQUIREMENTS OF THE ROOFING MANUFACTURER THESE CONDITIONS ARE TO BE BROUGHT TO THE ATTENTION OF THE ARCHITECT PRIOR TO BIDDING AND INSTALLATION OF THE APPROVED DETAIL.
9. THE CONTRACTOR IS TO CONFIRM THE ROOFING SYSTEM THICKNESS, INCLUDING THE RIGID INSULATION PRIOR TO INSTALLING CURB AND PARAPET BLOCKING. BLOCKING AND CURB HEIGHTS ARE TO BE ADJUSTED AS NEEDED TO CONFORM TO THE ROOFING THICKNESS TO MEET REQUIREMENTS FOR WARRANTY.
10. WHERE ROOFING MEMBRANE IS SHOWN EXTENDING UP TO THE TOP OF THE PARAPET, THE MEMBRANE IS TO WRAP UP, OVER AND DOWN THE WOOD BLOCKING. THE AIR INFILTRATION BARRIER IS TO EXTEND UP EXTERIOR FACE OF WALL AND FULLY OVER THE TOP OF THE PARAPET WALL AND UNDER THE SILL BLOCK FLASHING. VERIFY WALL TYPE FOR PARAPET CAP WIDTH, SEE DETAILS ON SHEET C5/A530. CONTRACTOR TO SEQUENCE WORK TO MEET THIS REQUIREMENT.
11. ALL TOPS OF PARAPETS TO BE PROVIDED WITH 1/2" PER FOOT MINIMUM POSITIVE SLOPE TOWARD THE ROOF FOR ADEQUATE DRAINAGE.
12. ALL PRE-MANUFACTURED MECHANICAL CURBS ARE TO BE MANUFACTURED TO ACCOMMODATE ROOF SLOPE. THEY MUST BE OF ADEQUATE HEIGHT TO ALLOW FOR THE DEPTH OF THE ROOF INSULATION, INCLUDING CRICKETS AND HAVE 8" HEIGHT ABOVE THE ROOF MEMBRANE, SEE DETAIL A2/A530.
13. SKYLIGHTS ARE TO BE INSTALLED SO THE TOP OF SKYLIGHT SLOPES 1/2" PER FOOT MINIMUM. THIS SLOPE IS TO SLOPE IN THE DIRECTION OF THE ROOF BELOW. FOR TYPICAL SKYLIGHT CURB, SEE DETAIL D3/A530.
14. ROOF DRAINS ARE TO BE INSTALLED IN A TWO LEVEL DRAIN BASIN. THE BASIN IS TO BE CONSTRUCTED USING LAYERS OF ROOFING INSULATION. SEE DETAILS D4, E5 AND E6/A530.
15. FOR TYPICAL LADDER, SEE DETAILS A4 AND C4 /A530.
16. FOR TYPICAL ROOF PIPE PENETRATIONS, SEE DETAIL D6/A530.

## KEY PLAN




VCBO
ARCHITECTURE
VALENTINER
CRANE
BRUNJES
ONYON

VCBO ARCHITECTURE
524 SOUTH 600 EAST
SALT LAKE CITY, UT 84102
Phone: (801) 575-8800
Fax: (801) 531-9850
www: www.vcbo.com

LICENSED ARCHITECT 339742 RENT R. TIPPETS 10-2-12 STATE OF UTAH

DFCM CODE COMPLIANCE STAMP

# Student Activity Center
## Stromberg Addition - BID SET
Weber State University
3750 Harrison Blvd. Ogden, UT 84408

| Rev # | Date | Description |
|---|---|---|

Job # 12475
CAD File
Drawn Author Checked Checker
Date 10.03.2012
Owner # DFCM #12031810

ROOF PLAN

A104

10/3/2012 3:09:42 PM

## ROOF PLAN NOTES

- STRUCTURE UPGRADE UNDER THIS PORTION OF EXISTING ROOF
- SINGLE PLY MEMBRANE ROOFING SYSTEM OVER TAPERED INSULATION MINIMUM SLOPES AT CRICKETS: 1/8" ALONG VALLEY, 1/4" ACROSS CRICKET & OVER FRAMED CRICKETING @ EXISTING LOCATIONS
- PROTECTIVE WALKABLE SURFACE
- DECK RIDGE OR VALLEY
- AREAS HATCHED AS SUCH SHALL NOT HAVE ANY PENETRATIONS THRU THE ROOF IN ORDED TO MAINTAIN THE 2 HOUR FIRE WALL ASSEMBLY LOCATED BELOW THE DECK (AS PER 2006 IBC SECTION 705.6.3)

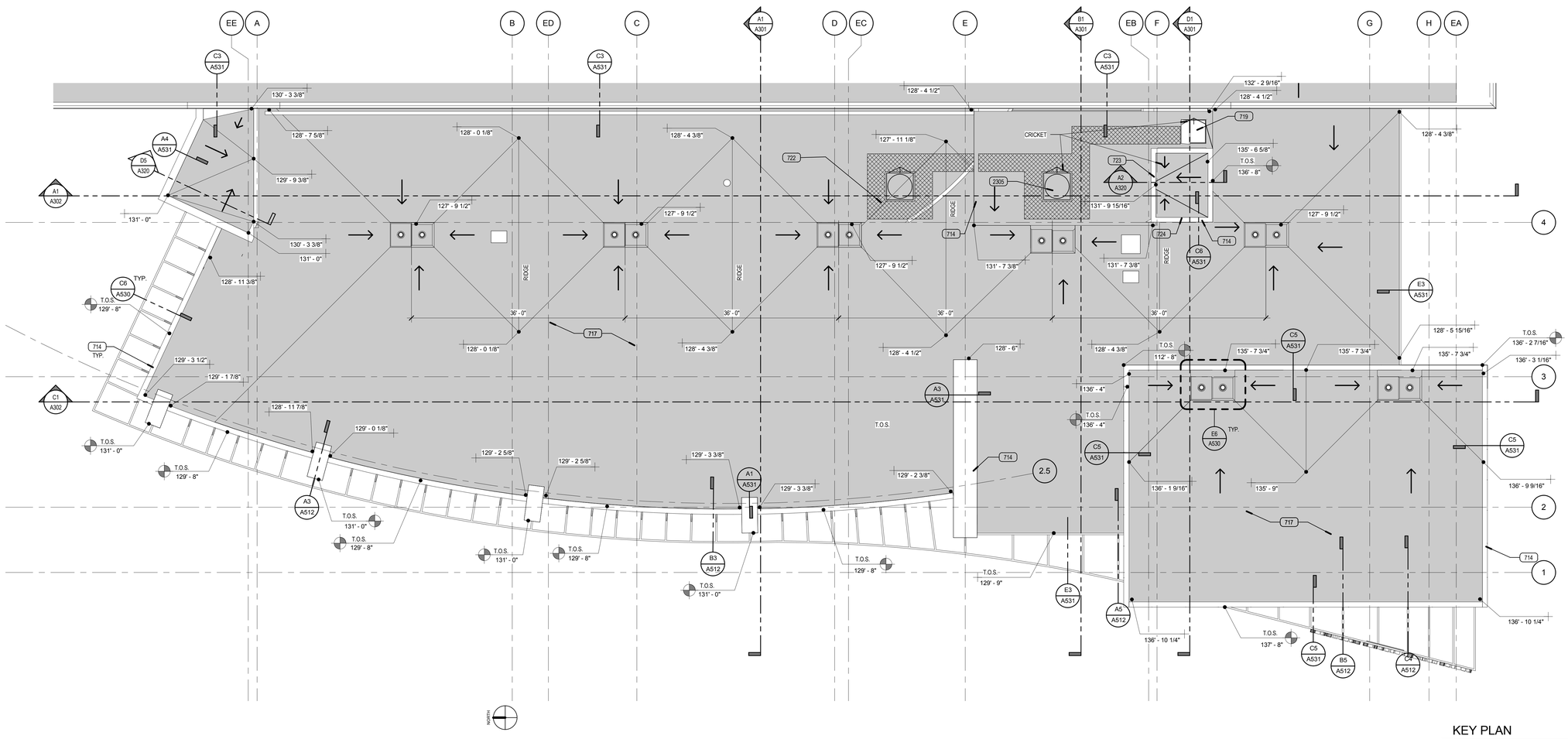
| | |
|---|---|
| T.O.I. | TOP OF INSULATION |
| T.O.S. | TOP OF STUD AT PARAPET |
| D.B. | DECK BEARING |

## GENERAL ROOF NOTES

1. ALL ROOF DECK IS TO BE COVERED IN R-30 INSULATION AND SPECIFIED ROOFING SYSTEM.
2. THE CONTRACTOR IS TO ASSURE THAT THE MINIMUM ROOF SLOPE IS NOT LESS THAN 1/2" PER FOOT. ANY AREA THAT IS LESS THAN 1/2" PER FOOT SLOPE SHALL BE ADJUSTED AT THE CONTRACTORS EXPENSE WITH CRICKETING TO PROVIDE THE REQUIRED SLOPE.
3. DECK BEARING ELEVATIONS SHOWN ON THIS SHEET ARE TO BE INCLUDED FOR ARCHITECT'S REFERENCE ON ALL STEEL SHOP DRAWINGS.
4. ALL ROOFING CRICKETS ARE TO BE CONSTRUCTED OF TAPERED INSULATION. CRICKETS ARE TO BE INSTALLED SO THAT A SLOPE OF 1/4" PER FOOT IS MAINTAINED ACROSS THE FACE OF THE CRICKET.
5. PROVIDE CRICKETS AT **ALL** ROOF TOP MOUNTED EQUIPMENT (I.E. SKYLIGHTS, ROOF HATCHES, ETC.) TO ASSURE POSITIVE DRAINAGE AROUND SUCH ELEMENTS.
6. ALL FLASHING, COUNTER FLASHING AND SHEET METAL WORK TO COMPLY WITH THE MINIMUM STANDARDS PER THE CURRENT EDITION OF SMACNA.
7. NOT ALL ROOF MOUNTED EQUIPMENT AND ROOF PENETRATIONS ARE SHOWN ON THE ARCHITECTURAL ROOF PLAN SHEETS. IN ADDITION TO THE ARCHITECTURAL, THE CONTRACTOR IS RESPONSIBLE FOR REFERENCING THE STRUCTURAL, MECHANICAL AND ELECTRICAL DOCUMENTS FOR ALL SUCH OCCURRENCES. ALL PENETRATIONS OF THE ROOF SHALL MEET WITH THE ROOFING MANUFACTURER'S RECOMMENDATIONS TO MAINTAIN INTEGRITY OF ROOFING SYSTEMS.
8. THE CONTRACTOR IS RESPONSIBLE AT BIDDING, FOR PROVIDING A MANUFACTURER'S APPROVED ROOFING DETAIL FOR ALL ROOFING CONDITIONS SO THAT THE SPECIFIED WARRANTY IS OBTAINED. IF A CONDITION SHOWN IN THESE CONSTRUCTION DOCUMENTS DOES NOT MEET THE REQUIREMENTS OF THE ROOFING MANUFACTURER THESE CONDITIONS ARE TO BE BROUGHT TO THE ATTENTION OF THE ARCHITECT PRIOR TO BIDDING AND INSTALLATION OF THE APPROVED DETAIL.
9. THE CONTRACTOR IS TO CONFIRM THE ROOFING SYSTEM THICKNESS, INCLUDING THE RIGID INSULATION PRIOR TO INSTALLING CURB AND PARAPET BLOCKING. BLOCKING AND CURB HEIGHTS ARE TO BE ADJUSTED AS NEEDED TO CONFORM TO THE ROOFING THICKNESS TO MEET REQUIREMENTS FOR WARRANTY.
10. WHERE ROOFING MEMBRANE IS SHOWN EXTENDING UP TO THE TOP OF THE PARAPET, THE MEMBRANE IS TO WRAP UP, OVER AND DOWN THE WOOD BLOCKING. THE AIR INFILTRATION BARRIER IS TO EXTEND UP EXTERIOR FACE OF WALL AND FULLY OVER THE TOP OF THE PARAPET WALL AND UNDER THE SILL BLOCK FLASHING. VERIFY WALL TYPE FOR PARAPET CAP WIDTH, SEE DETAILS ON SHEET C5/A530. CONTRACTOR TO SEQUENCE WORK TO MEET THIS REQUIREMENT.
11. ALL TOPS OF PARAPETS TO BE PROVIDED WITH 1/2" PER FOOT MINIMUM POSITIVE SLOPE TOWARD THE ROOF FOR ADEQUATE DRAINAGE.
12. ALL PRE-MANUFACTURED MECHANICAL CURBS ARE TO BE MANUFACTURED TO ACCOMMODATE ROOF SLOPE. THEY MUST BE OF ADEQUATE HEIGHT TO ALLOW FOR THE DEPTH OF THE ROOF INSULATION, INCLUDING CRICKETS AND HAVE 8" HEIGHT ABOVE THE ROOF MEMBRANE, SEE DETAIL A2/A530.
13. SKYLIGHTS ARE TO BE INSTALLED SO THE TOP OF SKYLIGHT SLOPES 1/2" PER FOOT MINIMUM. THIS SLOPE IS TO SLOPE IN THE DIRECTION OF THE ROOF BELOW. FOR TYPICAL SKYLIGHT CURB, SEE DETAIL D3/A530.
14. ROOF DRAINS ARE TO BE INSTALLED IN A TWO LEVEL DRAIN BASIN. THE BASIN IS TO BE CONSTRUCTED USING LAYERS OF ROOFING INSULATION. SEE DETAILS D4, E5 AND E6/A530.
15. FOR TYPICAL LADDER, SEE DETAILS A4 AND C4 /A530.
16. FOR TYPICAL ROOF PIPE PENETRATIONS, SEE DETAIL D6/A530.

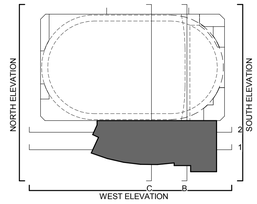
## KEYED NOTES

| | |
|---|---|
| 714 | PRE-FINISHED CONT. METAL FLASHING |
| 717 | WHITE SINGLE PLY MEMBRANE ROOFING SYSTEM |
| 719 | ROOF HATCH, SEE DETAIL D3/A530 |
| 722 | TRAFFIC PAD OVER ROOF MEMBRANE |
| 723 | |
| 724 | SIDEWALL SCUPPER OVERFLOW, A3/A530 |
| 2305 | MECHANICAL EQUIPMENT |




A3 ENLARGED
SCALE: 1/8" = 1'-0"
0' 4' 8' 16' 24'

KEY PLAN




VCBO
ARCHITECTURE
VALENTINER
CRANE
BRUNJES
ONYON

REGISTERED ARCHITECT
STATE OF UTAH
RENT R. TIPPETS
10-2-12

VCBO ARCHITECTURE
524 SOUTH 600 EAST
SALT LAKE CITY, UT 84102
Phone: (801) 575-8800
Fax: (801) 531-9850
WWW: www.vcbo.com

DFCM CODE COMPLIANCE STAMP

# Student Activity Center
## Stromberg Addition - BID SET
Weber State University
3750 Harrison Blvd. Ogden, UT 84408

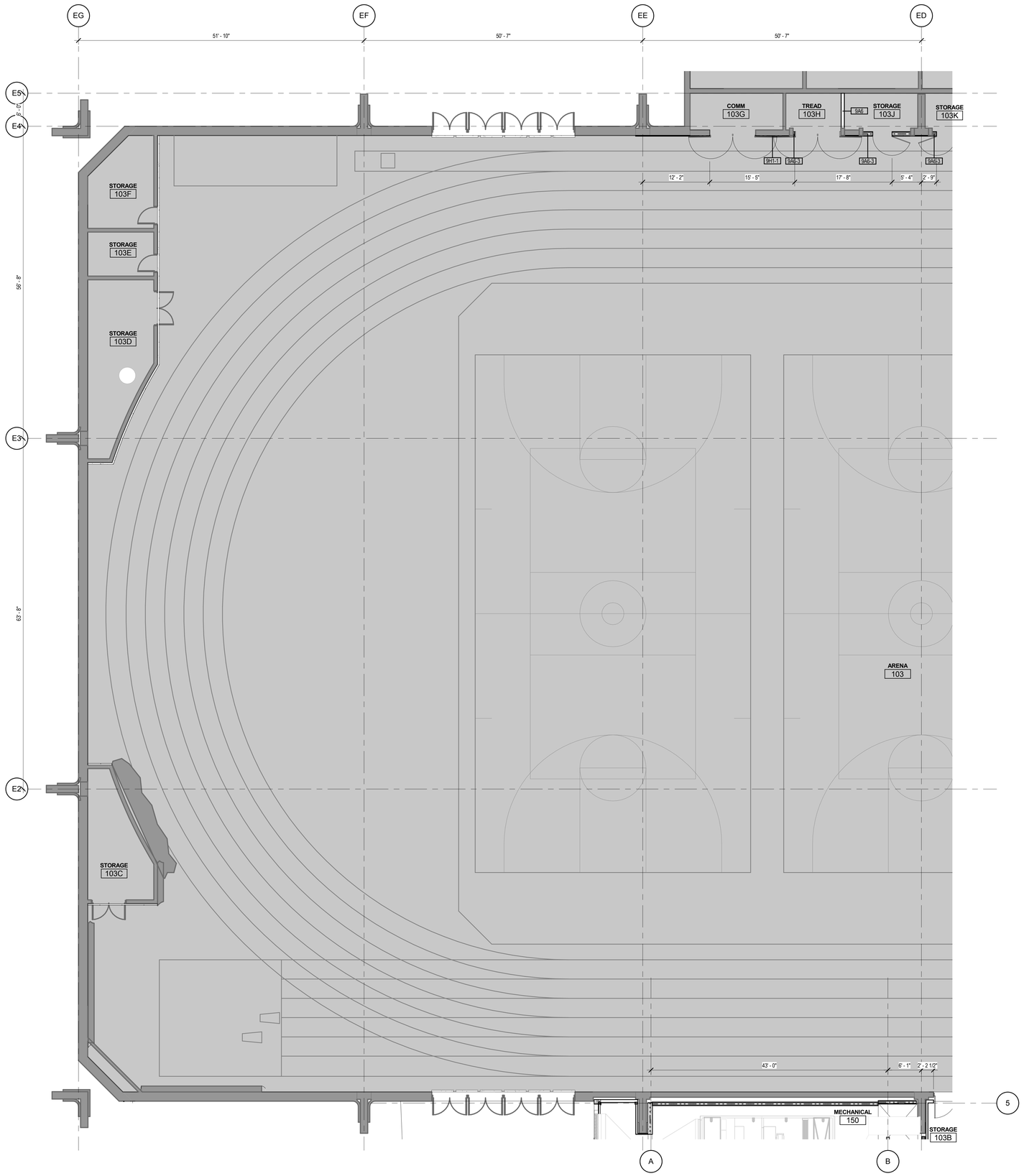
| Rev # | Date | Description |
|---|---|---|

Job # 12475
CAD File
Drawn Author Checked Checker
Date 10.03.2012
Owner # DFCM #12031810

ENLARGED ROOF PLAN

A104.1

10/3/2012 3:09:47 PM




NORTH

A1 LEVEL 01 AREA A - DIMENSION PLAN

SCALE: 1/8" = 1'-0"

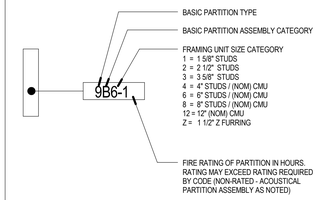
0' 4' 8' 16' 24'

## KEYED NOTES

## PARTITION TYPE SYMBOL DEFINITION

**SYMBOL DEFINITION**

BASIC PARTITION TYPE AND ADDITIONAL PARTITION COMPONENTS, IF ANY, ARE INDICATED IN THE FLOOR PLANS BY THE FOLLOWING SYMBOL




SEE SHEET A500 FOR WALL TYPES

## DIMENSION PLAN NOTES

1) ALL DIMENSIONS ARE TO CENTER OF STUD WALL OR FACE OF CONCRETE, MASONRY OR ROUGH OPENING UNLESS NOTED OTHERWISE. WHERE THE END OF A WALL IS INDICATED THE DIMENSION IS TO THE FINISH SURFACE OF THE WALL END.

2) DIMENSIONS ARE TO FACE-OF-FINISH WHEN MARKED CLR (CLEAR DIMENSION)

3) WHERE A.D.A. 5'-0" ACCESIBILITY DIMENSION IS REQUIRED, IT IS FACE-OF-FINISH CLEAR DIMENSION.

4) U.N.O., WHERE WALLS ARE SHOWN OVER GRIDLINES, CENTER STUD TRACK ON GRIDLINE.

5) WHERE POSSIBLE AND U.N.O, DOOR LOCATIONS ON OPPOSITE SIDES OF HALLWAYS AND COMMON SPACES ARE TO ALIGN DIMENSIONALLY.

6) U.N.O. ALIGN FACE OF FINISH WHERE VARYING WALL TYPES ARE SHOWN ADJACENT TO EACH OTHER IN A ROW.

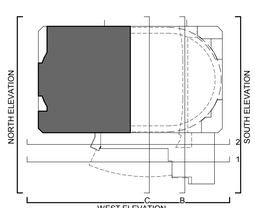
7) WHERE KEYED ON FLOOR PLANS, REFER TO ENLARGED FLOOR PLAN DRAWINGS AND DETAIL DRAWINGS FOR DIMENSIONS.

8) UNLESS DIMENSIONED OTHERWISE, THE DIMENSION FROM THE BUCK OF A DOOR FRAME IS TO BE 4" TO THE WALL CORNER.

9) PROVIDE GLASS MAT GYPSUM BOARD AT ALL TILE AREAS.

10) EXCEPT WHERE DIRECTED TO PLACE ITEMS OF WORK AT THE APPROXIMATE LOCATION SHOWN, DO NOT SCALE DRAWINGS FOR DIMENSIONAL INFORMATION. ALL ELEMENTS OF THE DRAWINGS MAY NOT BE DRAWN TO EXACT SCALE. ALL DIMENSIONS REQUIRED ARE SHOWN OR MAY BE DERIVED FROM THOSE SHOWN ON THE FLOOR PLANS, DETAIL PLANS, ELEVATIONS, SECTIONS, DETAILS, SCHEDULES AND SPECIFICATIONS. IF DIMENSIONS ARE NOT PRESENT, THE ARCHITECT IS TO BE NOTIFIED SO THAT A CLARIFICATION CAN BE ISSUED

## KEY PLAN




VCBO
ARCHITECTURE
VALENTINER
CRANE
BRUNJES
ONYON

LICENSED ARCHITECT
STATE OF UTAH
No. 13392
BRENT R. TIPPETS
10-2-12

VCBO ARCHITECTURE
524 SOUTH 600 EAST
SALT LAKE CITY, UT 84102
Phone: (801) 575-8800
Fax: (801) 531-9850
WWW: www.vcbo.com

DFCM CODE COMPLIANCE STAMP

# Student Activity Center
## Stromberg Addition - BID SET
Weber State University
3750 Harrison Blvd. Ogden, UT 84408

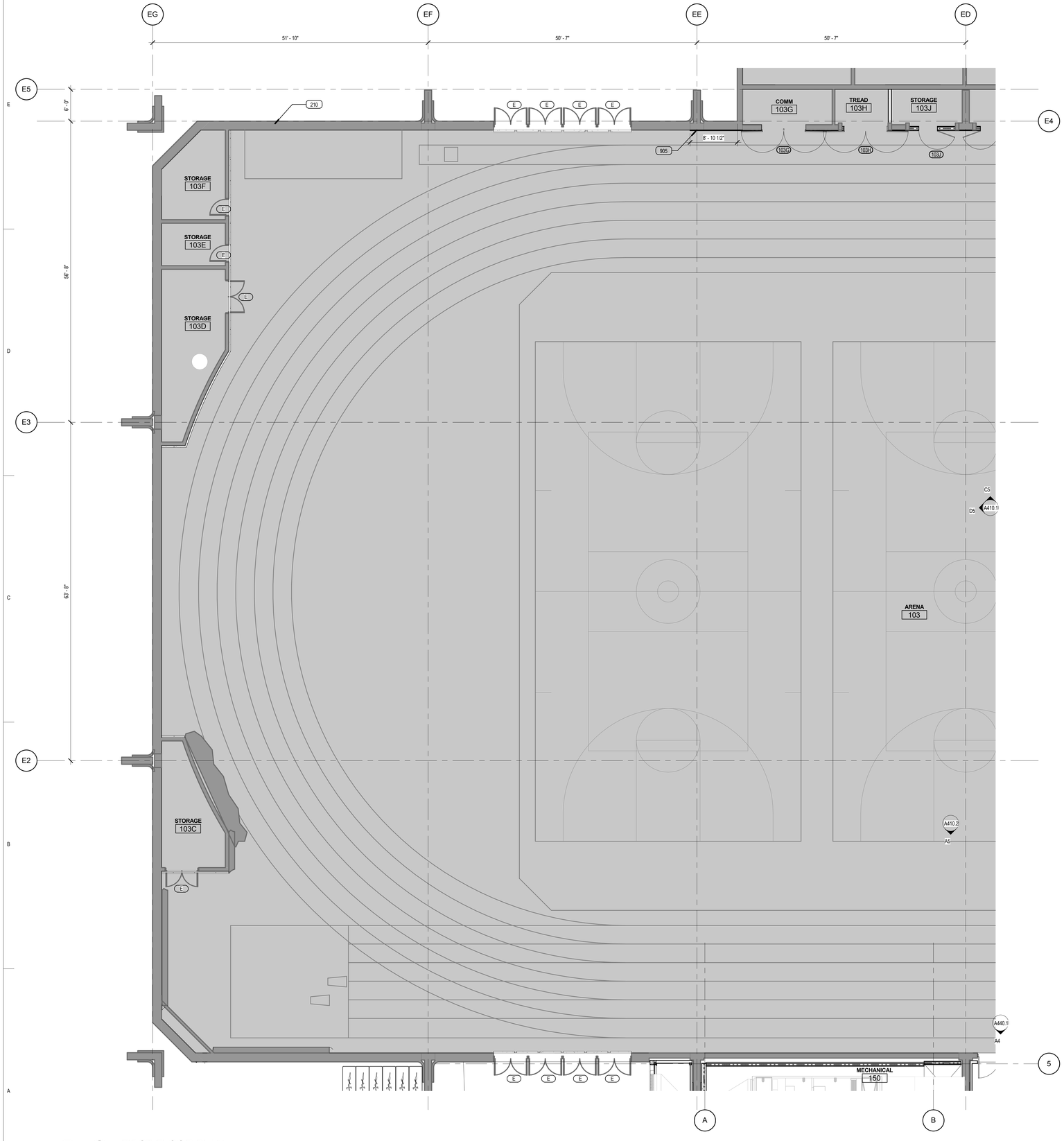
| Rev # | Date | Description |
|---|---|---|

Job # 12475
CAD File
Drawn Author Checked Checker
Date 10.03.2012
Owner # DFCM #12031810

LEVEL 01 AREA A - DIMENSION PLAN

A111.1

10/3/2012 3:09:52 PM




A1 FIRST FLOOR PLAN

SCALE: 1/8" = 1'-0"

0' 4' 8' 16' 24'

## ANNOTATED FLOOR PLAN NOTES

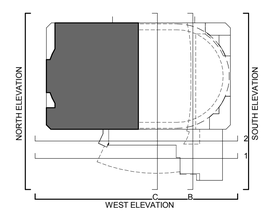
| SYMBOLOGY | |
|---|---|
| B003F | DOOR NUMBER (SEE SHEET A600.0 FOR DOOR SCHEDULE) |
| C12 | WINDOW NUMBER (SEE SHEETS A610.0, A611.0, A620.0 FOR WINDOW TYPES) |
| | EXISTING AREA/ ITEM TO REMAIN |

1. WHERE FLOOR DRAINS ARE INSTALLED, THE FLOOR IS TO SLOPE TO THE DRAIN. THE MAXIMUM SLOPE IS NOT OT EXCEED 2% WHILE THE MINIMUM SLOPE IS NOT TO BE LESS THAN 1%.
2. WHERE CONCRETE PADS ARE CALLED TO BE CONSTRUCTED UNDER EQUIPMENT, THE SLAB IS TO BE 8" THICK, U.N.O., AND IS TO HAVE #4 BARS AT 18" O.C. EACH WAY. COORDINATE DIMENSIONS OF PAD WITH ACTUAL EQUIPMENT SPEC.
3. SEE TYPICAL FLOORING TRANSITION DETAILS SHEET A590.
4. THE CONTRACTOR IS TO ENSURE THAT BETWEEN ANY FINISH FLOOR ELEVAITON TO 34" A.F.F. ALL GUARDRAILS ARE TO BE CONSTRUCTED AND INSTALLED SO THAT A 4" SPHERE WILL NOT PASS BETWEEN ANY TOW ADJACENT GUARDRAIL COMPONENTS OR BETWEEN THE EDGE OF A GUARDRAIL AND ALL ADJACENT BUILDING ELEMENTS SUCH AS A WALL OR FLOOR. AND 8" DIAMETER SHPERE IS NOT TO PASS BETWEEN THE ABOVE MENTIONED COMPONENTS AND ELEMENTS FROM AN ELEVATION 34" A.F.F. AND HIGHER.
5. SEE TYPICAL FIRE EXTINGUISER CABINET INSTALLATION DETAILS.

## KEYED NOTES

210 EXG MASONRY WALL
905 5/8" GYP. BD. PAINTED WHERE EXPOSED

## KEY PLAN




VCBO
ARCHITECTURE
VALENTINER
CRANE
BRUNJES
ONYON

VCBO ARCHITECTURE
524 SOUTH 600 EAST
SALT LAKE CITY, UT 84102
Phone: (801) 575-8800
Fax: (801) 531-9850
WWW: www.vcbo.com

LICENSED ARCHITECT
No. 13392
BRENT R. TIPPETS
10-2-12
STATE OF UTAH

DFCM CODE COMPLIANCE STAMP

# Student Activity Center
## Stromberg Addition - BID SET
Weber State University
3750 Harrison Blvd. Ogden, UT 84408

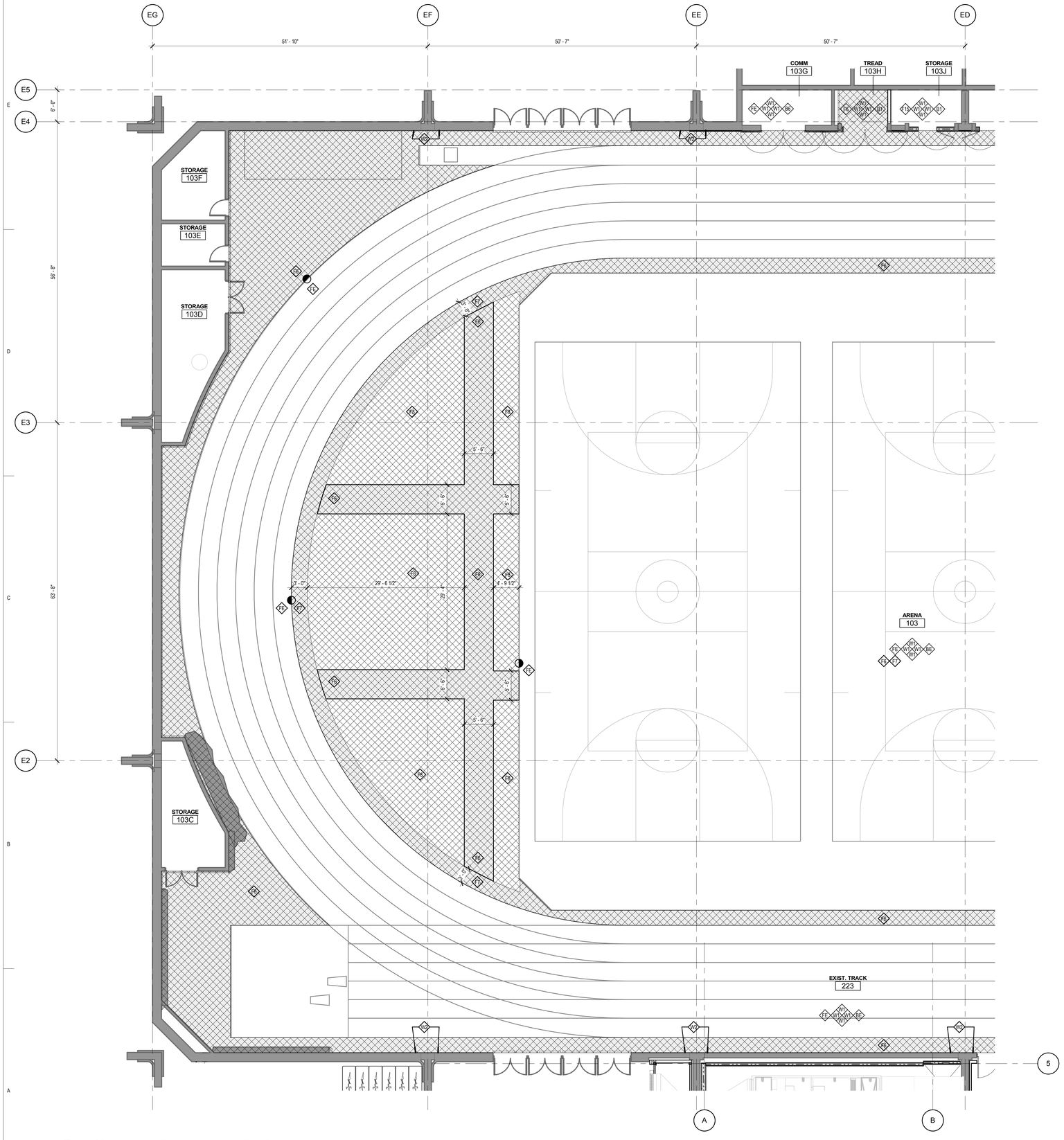
| Rev # | Date | Description |
|---|---|---|

Job # 12475
CAD File
Drawn Author Checked Checker
Date 10.03.2012
Owner # DFCM #12031810

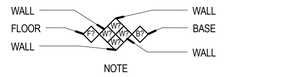
LEVEL 01 AREA A - ANNOTATION PLAN

A111.2

10/3/2012 3:09:56 PM




## FINISH PLAN SYMBOLS




SINGLE FINISH SYMBOLS INDICATE WHERE FINISHES ARE DIFFERENT FROM GENERAL ROOM FINISHES, OR PROVIDE ADDITIONAL FINISH INFORMATION

CHANGE AT FLOOR MATERIAL SEE DETAIL D1/A570 FLOOR TRANSITION

XXXX SIGNAGE TAG- SEE SIGNAGE SCHEDULE AND SHEET A800 FOR MORE INFORMATION

STAINLESS STEEL CORNER GUARD TO 4'-0" A.F.F.

## FINISH PLAN LEGEND

NOTE: REFER TO FINISH SCHEDULE IN SPECIFICATIONS, DIVISION 9, FOR INTERIOR FINISH SELECTIONS AND SPECIFICATIONS.

**WALL MATERIALS**

| | |
|---|---|
| W1 | PRIMED & PAINTED WALL SURFACE- GENERAL WHITE |
| W2 | PRIMED & PAINTED WALL SURFACE- ACCENT GRAY |
| W3 | PRIMED & PAINTED WALL SURFACE- ACCENT GREEN |
| W4 | PRIMED & PAINTED WALL SURFACE- ACCENT FULLY PURPLE |
| W5 | PRIMED & PAINTED WALL SURFACE- ACCENT CHARCOAL |
| W6 | NOT USED |
| W7 | WALL TILE - MOSA TILES GLOBAL COLLECTION 16650 GRAY |
| W8 | WALL TILE - MOSA TILES GLOBAL COLLECTION 16860 BEIGE |
| W9 | WALL TILE - MOSA TILES GLOBAL COLLECTION 20930 PURPLE |
| WE | EXISTING WALL FINISH |

**FLOOR MATERIALS**

| | |
|---|---|
| F1 | GENERAL CARPET - PATCRAFT 10294 IDEA, COLOR: 00590 MINDSET |
| F2 | ACCENT CARPET - PATCRAFT 10294 IDEA, COLOR 00100 INSIGHT |
| F3 | VINYL TILE FLOORING - ARMSTRONG STRIATIONS BBT, T 3608 WARM GRAY |
| F4 | MOSAIC FLOOR TILE - DALTILE KEYSTONES BLOCK RANDOM, DESERT GRAY SPECKLE |
| F5 | |
| F6 | RUBBER FLOORING - MONDO SPORT IMPACT 011 MEDIUM GREY |
| F7 | RUBBER FLOORING - MONDO SPORT IMPACT 018 DARK GREY |
| F8 | RUBBER FLOORING - MONDO SPORT IMPACT 026 PURPLE |
| F9 | RUNNING TRACK - MONDO |
| F10 | ATHLETIC WOODFLOOR |
| F11 | PORCELAIN TILE - 12X24 Q-STONE |
| F12 | ENTRANCE / WALK OFF MATTING CARPET SYSTEM |
| F13 | TRAFFIC COATING |
| F14 | SEALED CONCRETE |
| F15 | VCT |
| FE | EXISTING FLOOR MATERIAL |

**WOOD**

| | |
|---|---|
| WD1 | WOOD DOORS - VT INDUSTRIES WHITE MAPLE VENEER, CLEAR FINISH CL07 |
| WD2 | STAINED AND FINISHED MDF PANEL- LIGHT |
| WD3 | STAINED AND FINISHED MDF PANEL MDF - DARK |

**BASE MATERIALS**

| | |
|---|---|
| B1 | 4" RUBBER BASE - JOHNSONITE; 20 CHARCOAL |
| B2 | VENTED BASE - SEE DETAIL A4/A590 |
| B3 | CERAMIC TILE BASE |
| B4 | NO BASE - CAULK BETWEEN FLOOR & WALL |
| B5 | WRAP TRAFFIC COATING UP WALL 4" |
| BE | EXISTING BASE |

**SURFACE MATERIALS**

| | |
|---|---|
| PL1 | PLASTIC LAMINATE - WILSONART 7949K-18 ASIAN NIGHT (DARK GRAY) |
| PL2 | PLASTIC LAMINATE - WILSONART 4978-38 PEWTER MESH (LIGHT GRAY) |
| PL3 | PLASTIC LAMINATE - NEVAMAR VOUS TEMPEST VS6002T (MEDIUM GRAY) |
| PL4 | PLASTIC LAMINATE - NEVAMAR EXTREME GREEN BAMBOO TEXTURED WX5001T (GREEN) |
| SS1 | SOLID SURFACE - CAMBRIA WAVERTON 0250 (WHITE) |
| SS2 | SOLID SURFACE - CAMBRIA WAVERTON 0250 (WHITE) |
| PLE | EXISTING PLASTIC LAMINATE |
| SSE | EXISTING SOLID SURFACE |

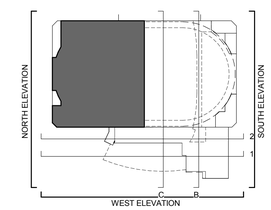
## GENERAL FINISH NOTES

1. ALL FLOOR TRANSITIONS LOCATED AT CENTER OF DOOR.
2. SEE ELEVATION SHEETS FOR ALL WALL TILE PATTERNS.
3. FIELD VERIFY ALL DIMENSIONS BEFORE FABRICATION OF MILLWORK.
4. COORDINATE ALL MILLWORK WITH APPLIANCES BEFORE FABRICATION.
5. ALL WINDOW SILLS TO BE SOLID SURFACE U.N.O.
6. ALL WOOD TRIM TO BE STAINED TO MATCH DOOR STAIN.
7. ALL COUNTERTOPS TO BE PLASTIC LAMINATE, U.N.O.
8. FLOOR TILE PATTERNS TO BE INSTALLED AS INDICATED ON FINISH AND SIGNAGE PLAN.
9. TYPICAL TILE DIRECTION PATTERNS TO BE MAINTAINED AND CONSISTENT THROUGHOUT INDICATED SPACE.

## BID ALTERNATE #1 LEGEND

BID ALTERNATE #1: REMOVE AND REPLACE GREEN PORTIONS OF ATHLETIC FLOOR. REPLACE WITH RUBBER ATHLETIC FLOORING.

## KEY PLAN




NORTH

A1 LEVEL 01 AREA A - FINISH PLAN

SCALE: 1/8" = 1'-0"

0' 4' 8' 16' 24'

VCBO ARCHITECTURE
524 SOUTH 600 EAST
SALT LAKE CITY, UT 84102
Phone: (801) 575-8800
Fax: (801) 531-9850
WWW: www.vcbo.com

DFCM CODE COMPLIANCE STAMP

# Student Activity Center
## Stromberg Addition - BID SET
Weber State University
3750 Harrison Blvd. Ogden, UT 84408

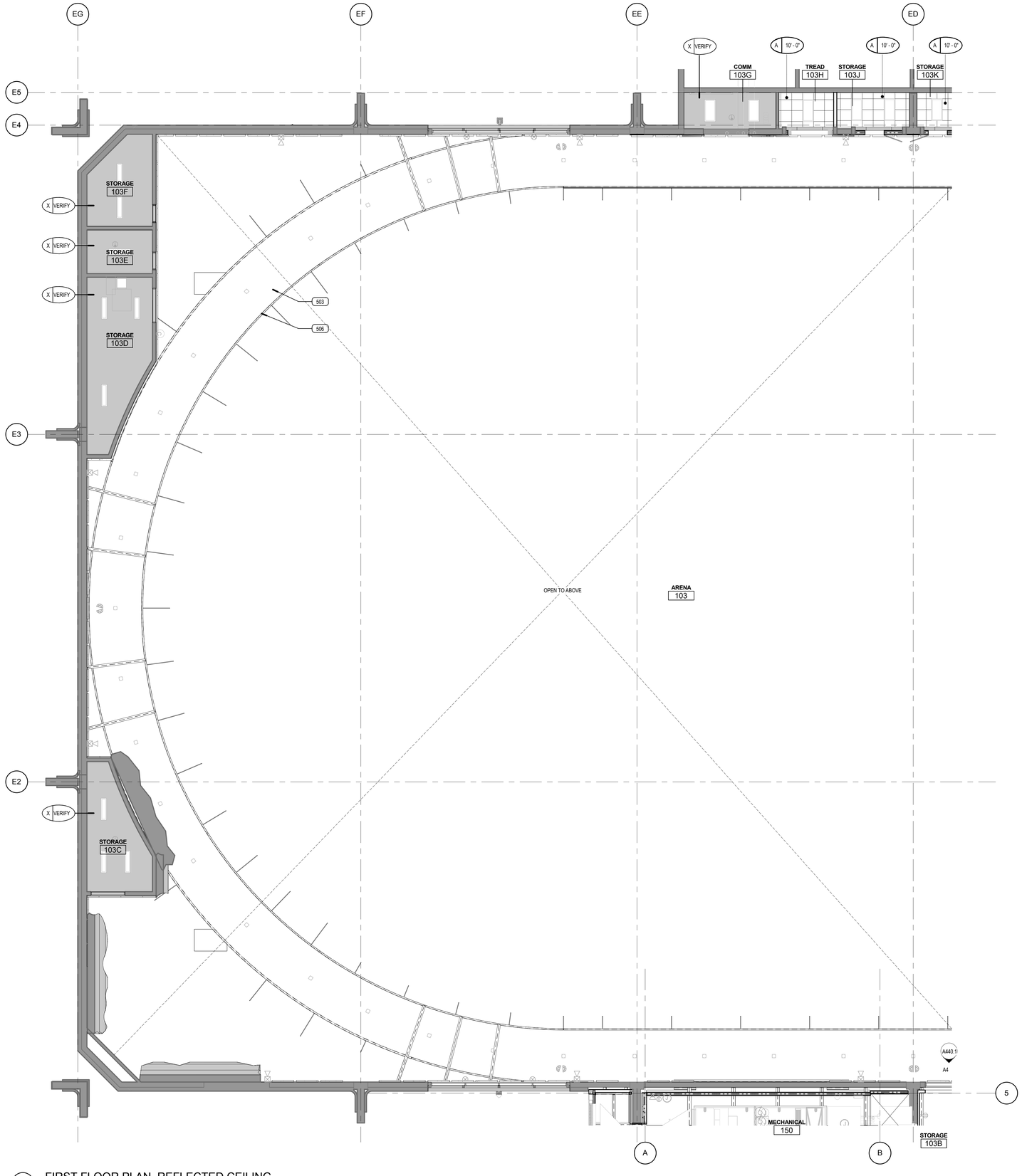
| Rev # | Date | Description |
|---|---|---|

Job # 12475
CAD File
Drawn Author Checked Checker
Date 10.03.2012
Owner # DFCM #12031810

LEVEL 01 AREA A - FINISH PLAN

A111.3

10/3/2012 3:10:00 PM




A1 FIRST FLOOR PLAN, REFLECTED CEILING

SCALE: 1/8" = 1'-0"

0' 4' 8' 16' 24'

NORTH

## KEYED NOTES

503 STEEL DECK PAINTED WHERE EXPOSED

506 STEEL CHANNEL PAINTED WHERE EXPOSED

## CEILING LEGEND

- A- SUSPENDED 2' X 2' ACOUSTICAL LAY-IN TILE CEILING
- B- SUSPENDED 2' X 4' ACOUSTICAL LAY-IN TILE CEILING
- C- SUSPENDED 5/8" GYP. BD. CEILING SYSTEM - (1 LAYER) PAINTED. APPLY EPOXY PAINT IN WET AREAS.
- D- SUSPENDED 2' X 2' METAL SCULPTURAL LAY-IN TILE CEILING.
- E- OPEN TO STRUCTURE ABOVE, PAINTED.
- F- METAL SOFFIT SYSTEM
- G- 2 HOUR FIRE-RATED CEILING ASSEMBLY. (2) LAYERS TYPE-X GYP. BOARD.
- J- COMPOSITE METAL PANEL
- X- EXISTING CEILING SYSTEM, TO REMAIN

## CEILING SYMBOLS

**ELECTRICAL**

- 2'X4' FLUORESCENT FIXTURE
- 2'X2' FLUORESCENT FIXTURE
- 1'X4' FLUORESCENT FIXTURE
- FLUORESCENT STRIP FIXTURE
- RECESSED DOWN LIGHT
- WALL WASH
- 1'X4' FLUORESCENT FIXTURE
- EXIT SIGN, SINGLE-SIDED
- EXIT SIGN, DOUBLE-SIDED
- F FIRE ALARM
- S SPEAKER
- P SMOKE DETECTOR
- W WIRELESS INTERNET

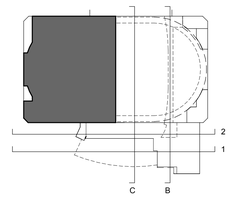
**MECHANICAL**

- SUPPLY GRILLE
- RETURN GRILLE
- EXHAUST GRILLE
- LINEAR DIFFUSER
- SPRINKLER HEAD - CEILING MOUNT
- SPRINKLER HEAD - WALL MOUNT

## GENERAL CEILING NOTES

1. REFER TO DETAIL C6/A530 FOR TYPICAL CEILING SUSPENSION & SEISMIC BRACING
2. REFER TO DETAIL A6/A530 FOR TYPICAL SUSPENDED GYP. BOARD CEILINGS
3. ALL UNIDENTIFIED CEILING TYPES ON THE PLANS SHALL BE TYPE " A" AT 9'-4" A.F.F.
4. GRID SUSPENSION SYSTEMS SHALL BE CENTERED WITHIN AREAS INDICATED, UNLESS NOTED OTHERWISE
5. PAINT ALL EXPOSED STRUCTURE, MECHANICAL, DUCTS, ELECTRICAL WORK, PIPING, ETC. ALL VISIBLE ELEMENTS TO BE PAINTED AT TYPE "E" & TYPE "A" (ABOVE CEILING CLOUDS WHERE VISABLE)
6. REFER TO ARCHITECTURAL DRAWINGS FOR LOCATION OF MECHANICAL GRILLES, AND TO MECHANICAL DRAWINGS FOR QUANTITIES AND TYPES
7. REFER TO ARCHITECTURAL DRAWINGS FOR LOCATIONS OF LIGHT FIXTURES AND TO ELECTRICAL DRAWINGS FOR QUANTITY AND TYPES
8. MECHANICAL AND ELECTRICAL CONTRACTORS TO COORDINATE WORK WITH SPRINKLER CONTRACTOR TO AVOID CONFLICTS IN FIELD
9. ALL CEILING HEIGHTS ARE ELEVATION ABOVE TOP OF CONCRETE FLOOR SLAB
9. ALL TYPE C CEILINGS IN RESTROOMS, LOCKER ROOMS, SHOWERS, AND WET AREAS TO BE EPOXY PAINTED
10.

## KEY PLAN




VCBO
ARCHITECTURE
VALENTINER
CRANE
BRUNJES
ONYON

LICENSED ARCHITECT
No. 13392
BRENT R. TIPPETS
10-2-12
STATE OF UTAH

VCBO ARCHITECTURE
524 SOUTH 600 EAST
SALT LAKE CITY, UT 84102
Phone: (801) 575-8800
Fax: (801) 531-9850
WWW: www.vcbo.com

DFCM CODE COMPLIANCE STAMP

# Student Activity Center
## Stromberg Addition - BID SET
Weber State University
3750 Harrison Blvd. Ogden, UT 84408

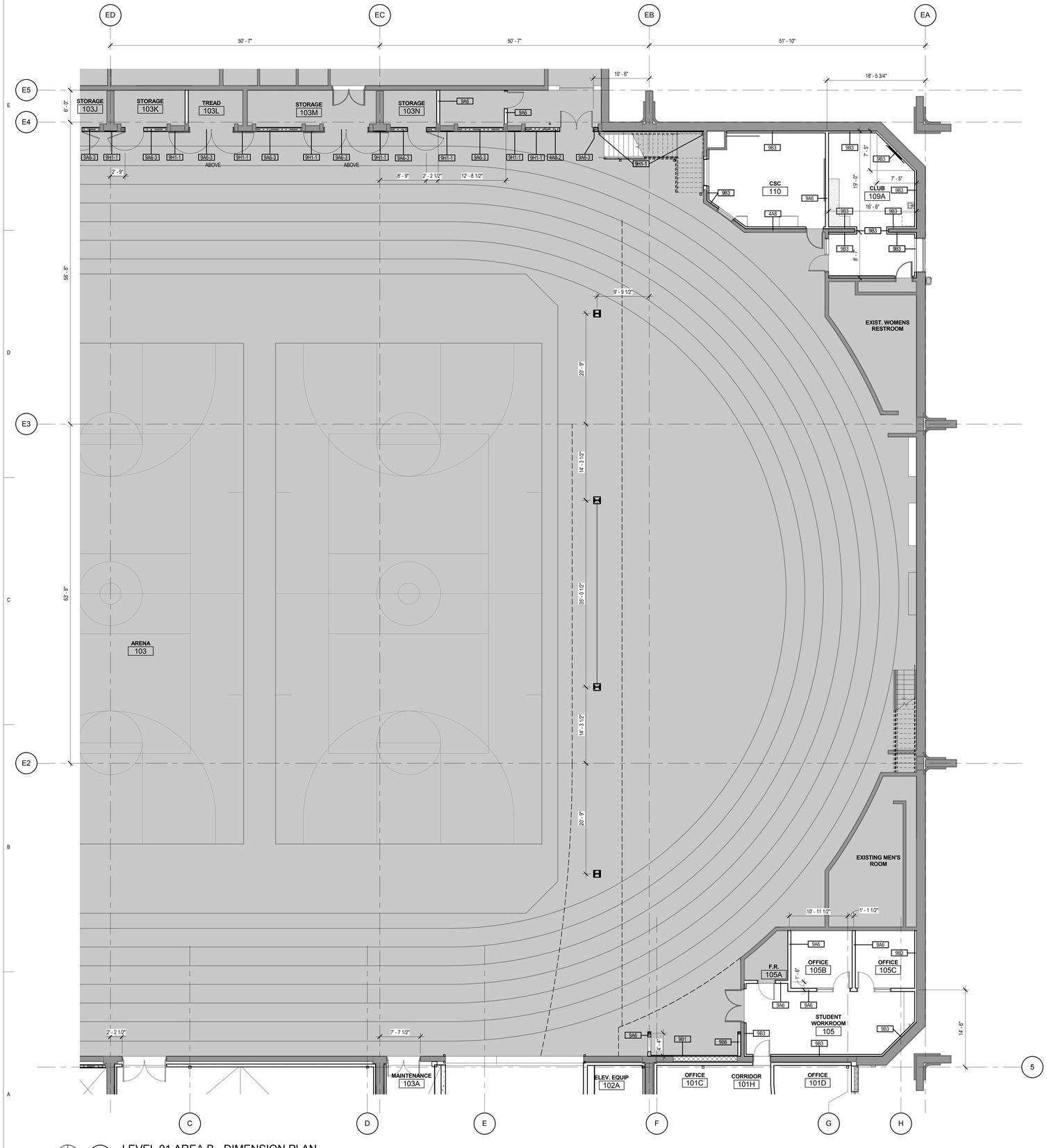
| Rev # | Date | Description |
|---|---|---|

Job # 12475
CAD File
Drawn Author Checked Checker
Date 10.03.2012
Owner # DFCM #12031810

LEVEL 01 AREA A - REFLECTED CEILING PLAN

A111.4

10/3/2012 3:10:05 PM




NORTH

A1 LEVEL 01 AREA B - DIMENSION PLAN

SCALE: 1/8" = 1'-0"

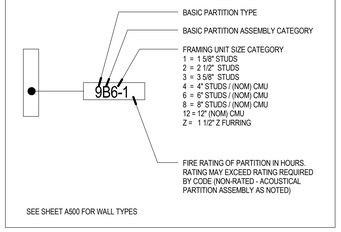
0' 4' 8' 16' 24'

## KEYED NOTES

## PARTITION TYPE SYMBOL DEFINITION

**SYMBOL DEFINITION**

BASIC PARTITION TYPE AND ADDITIONAL PARTITION COMPONENTS, IF ANY, ARE INDICATED IN THE FLOOR PLANS BY THE FOLLOWING SYMBOL




SEE SHEET A500 FOR WALL TYPES

## DIMENSION PLAN NOTES

1) ALL DIMENSIONS ARE TO CENTER OF STUD WALL OR FACE OF CONCRETE, MASONRY OR ROUGH OPENING UNLESS NOTED OTHERWISE. WHERE THE END OF A WALL IS INDICATED THE DIMENSION IS TO THE FINISH SURFACE OF THE WALL END.

2) DIMENSIONS ARE TO FACE-OF-FINISH WHEN MARKED CLR (CLEAR DIMENSION)

3) WHERE A.D.A. 5'-0" ACCESIBILITY DIMENSION IS REQUIRED, IT IS FACE-OF-FINISH CLEAR DIMENSION.

4) U.N.O., WHERE WALLS ARE SHOWN OVER GRIDLINES, CENTER STUD TRACK ON GRIDLINE.

5) WHERE POSSIBLE AND U.N.O, DOOR LOCATIONS ON OPPOSITE SIDES OF HALLWAYS AND COMMON SPACES ARE TO ALIGN DIMENSIONALLY.

6) U.N.O. ALIGN FACE OF FINISH WHERE VARYING WALL TYPES ARE SHOWN ADJACENT TO EACH OTHER IN A ROW.

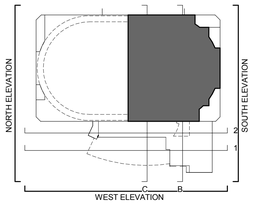
7) WHERE KEYED ON FLOOR PLANS, REFER TO ENLARGED FLOOR PLAN DRAWINGS AND DETAIL DRAWINGS FOR DIMENSIONS.

8) UNLESS DIMENSIONED OTHERWISE, THE DIMENSION FROM THE BUCK OF A DOOR FRAME IS TO BE 4" TO THE WALL CORNER.

9) PROVIDE GLASS MAT GYPSUM BOARD AT ALL TILE AREAS.

10) EXCEPT WHERE DIRECTED TO PLACE ITEMS OF WORK AT THE APPROXIMATE LOCATION SHOWN, DO NOT SCALE DRAWINGS FOR DIMENSIONAL INFORMATION. ALL ELEMENTS OF THE DRAWINGS MAY NOT BE DRAWN TO EXACT SCALE. ALL DIMENSIONS REQUIRED ARE SHOWN OR MAY BE DERIVED FROM THOSE SHOWN ON THE FLOOR PLANS, DETAIL PLANS, ELEVATIONS, SECTIONS, DETAILS, SCHEDULES AND SPECIFICATIONS. IF DIMENSIONS ARE NOT PRESENT, THE ARCHITECT IS TO BE NOTIFIED SO THAT A CLARIFICATION CAN BE ISSUED

## KEY PLAN




VCBO
ARCHITECTURE
VALENTINER
CRANE
BRUNJES
ONYON

VCBO ARCHITECTURE
524 SOUTH 600 EAST
SALT LAKE CITY, UT 84102
Phone: (801) 575-8800
Fax: (801) 531-9850
WWW: www.vcbo.com

LICENSED ARCHITECT No. 13392 BRENT R. TIPPETS 10-2-12 STATE OF UTAH

DFCM CODE COMPLIANCE STAMP

# Student Activity Center
## Stromberg Addition - BID SET
Weber State University
3750 Harrison Blvd. Ogden, UT 84408

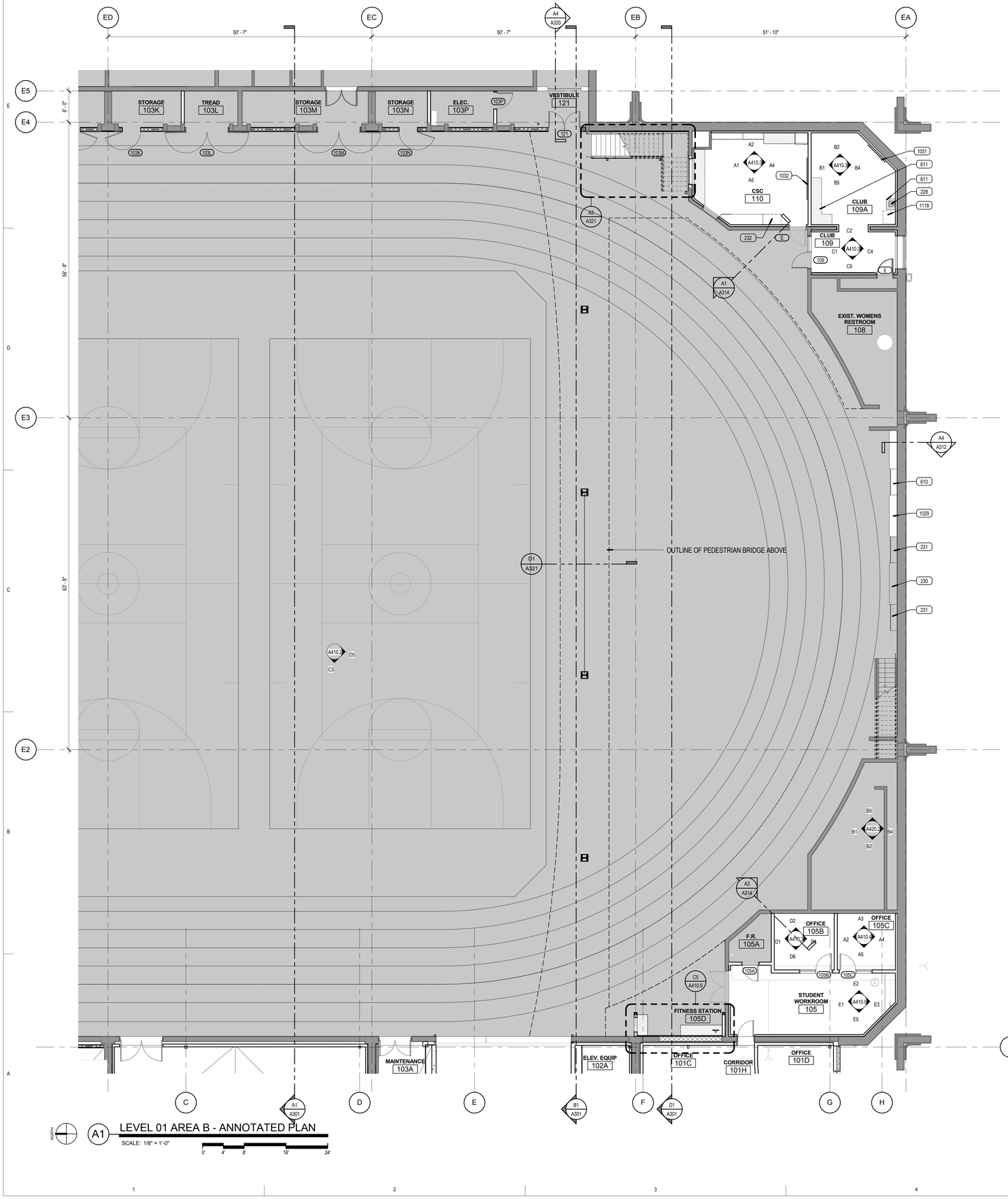
| Rev # | Date | Description |
|---|---|---|

Job # 12475
CAD File
Drawn Author Checked Checker
Date 10.03.2012
Owner # DFCM #12031810

LEVEL 01 AREA B - DIMENSION PLAN

A112.1

10/3/2012 3:10:09 PM




## ANNOTATED FLOOR PLAN NOTES

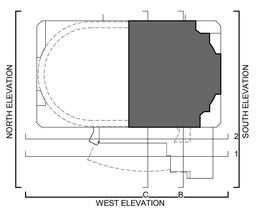
| SYMBOLOGY | |
|---|---|
| B003F | DOOR NUMBER (SEE SHEET A600.0 FOR DOOR SCHEDULE) |
| C12 | WINDOW NUMBER (SEE SHEETS A610.0, A611.0, A620.0 FOR WINDOW TYPES) |
| | EXISTING AREA/ ITEM TO REMAIN |

1. WHERE FLOOR DRAINS ARE INSTALLED, THE FLOOR IS TO SLOPE TO THE DRAIN. THE MAXIMUM SLOPE IS NOT OT EXCEED 2% WHILE THE MINIMUM SLOPE IS NOT TO BE LESS THAN 1%.
2. WHERE CONCRETE PADS ARE CALLED TO BE CONSTRUCTED UNDER EQUIPMENT, THE SLAB IS TO BE 8" THICK, U.N.O., AND IS TO HAVE #4 BARS AT 18" O.C. EACH WAY. COORDINATE DIMENSIONS OF PAD WITH ACTUAL EQUIPMENT SPEC.
3. SEE TYPICAL FLOORING TRANSITION DETAILS SHEET A590.
4. THE CONTRACTOR IS TO ENSURE THAT BETWEEN ANY FINISH FLOOR ELEVAITON TO 34" A.F.F. ALL GUARDRAILS ARE TO BE CONSTRUCTED AND INSTALLED SO THAT A 4" SPHERE WILL NOT PASS BETWEEN ANY TOW ADJACENT GUARDRAIL COMPONENTS OR BETWEEN THE EDGE OF A GUARDRAIL AND ALL ADJACENT BUILDING ELEMENTS SUCH AS A WALL OR FLOOR, AND 8" DIAMETER SHPERE IS NOT TO PASS BETWEEN THE ABOVE MENTIONED COMPONENTS AND ELEMENTS FROM AN ELEVATION 34" A.F.F. AND HIGHER.
5. SEE TYPICAL FIRE EXTINGUISER CABINET INSTALLATION DETAILS.

## KEYED NOTES

| | |
|---|---|
| 228 | EXG PLUMBING FIXTURE |
| 230 | EXG BENCH |
| 231 | EXG CUBBIES |
| 232 | EXG SOUND PANEL TO BE RELOCATED |
| 610 | FREE STANDING STORAGE CUBBY CABINET |
| 611 | PLASTIC LAMINATE COUNTERTOP |
| 1029 | BENCH/ SEAT |
| 1031 | LCD SCREEN NIC |
| 1032 | TACKABLE WALL SURFACE |
| 1118 | ELECTRIC WASHER AND DRYER NIC |

## KEY PLAN




## A1 LEVEL 01 AREA B - ANNOTATED PLAN

SCALE: 1/8" = 1'-0"

0' 4' 8' 16' 24'

VCBO ARCHITECTURE
524 SOUTH 600 EAST
SALT LAKE CITY, UT 84102
Phone: (801) 575-8800
Fax: (801) 531-9850
www: www.vcbo.com

DFCM CODE COMPLIANCE STAMP

# Student Activity Center
## Stromberg Addition - BID SET
Weber State University
3750 Harrison Blvd. Ogden, UT 84408

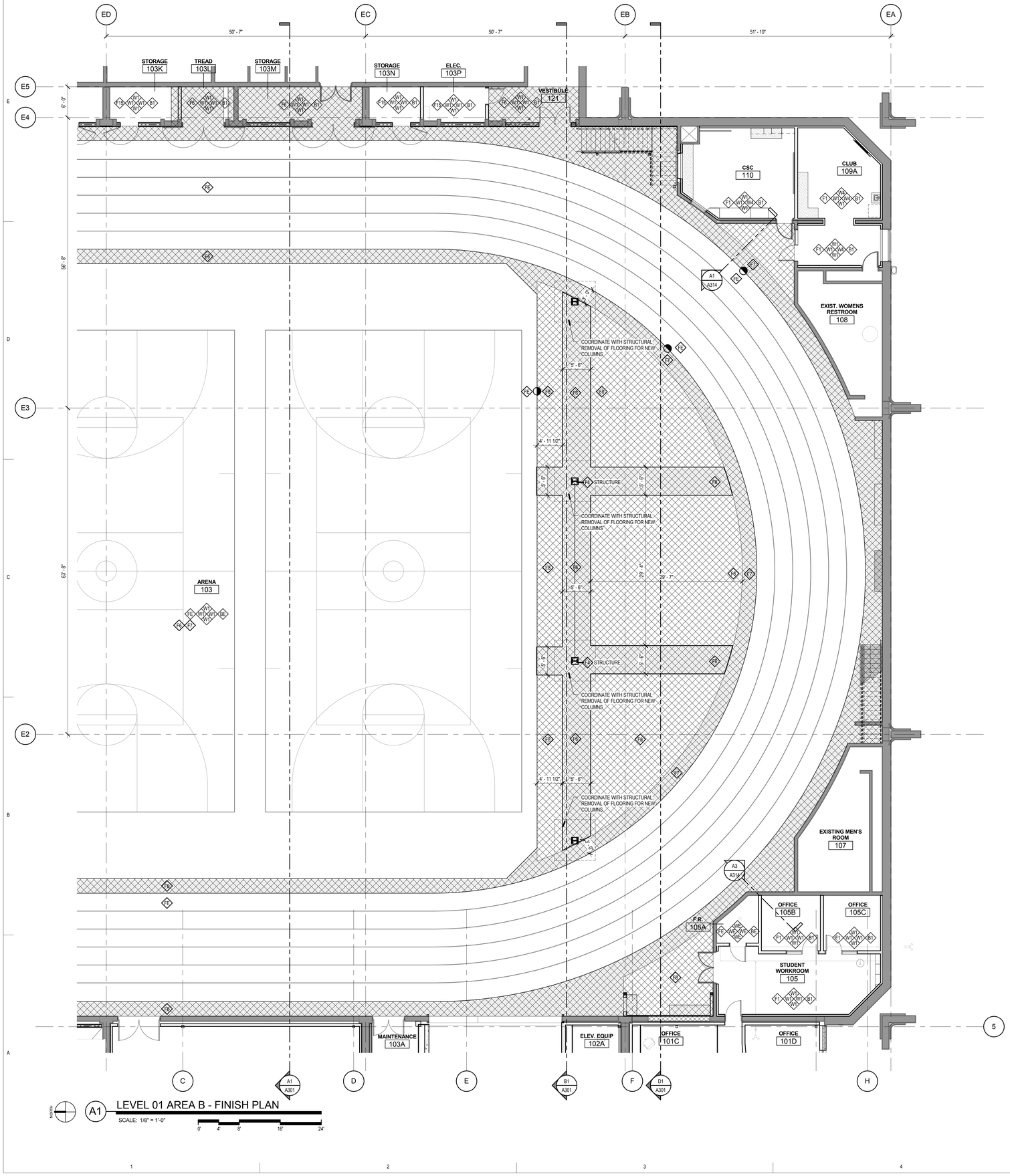
| Rev # | Date | Description |
|---|---|---|

Job # 12475
CAD File
Drawn Author Checked Checker
Date 10.03.2012
Owner # DFCM #12031810

LEVEL 01 AREA B - ANNOTATED PLAN

A112.2

10/3/2012 3:10:14 PM




A1 LEVEL 01 AREA B - FINISH PLAN

SCALE: 1/8" = 1'-0"

0' 4' 8' 16' 24'

## FINISH PLAN SYMBOLS

SINGLE FINISH SYMBOLS INDICATE WHERE FINISHES ARE DIFFERENT FROM GENERAL ROOM FINISHES, OR PROVIDE ADDITIONAL FINISH INFORMATION

CHANGE AT FLOOR MATERIAL SEE DETAIL D1/A570 FLOOR TRANSITION

XXXX SIGNAGE TAG- SEE SIGNAGE SCHEDULE AND SHEET A800 FOR MORE INFORMATION

STAINLESS STEEL CORNER GUARD TO 4'-0" A.F.F.

## FINISH PLAN LEGEND

NOTE: REFER TO FINISH SCHEDULE IN SPECIFICATIONS, DIVISION 9, FOR INTERIOR FINISH SELECTIONS AND SPECIFICATIONS.

**WALL MATERIALS**

| | |
|---|---|
| W1 | PRIMED & PAINTED WALL SURFACE- GENERAL WHITE |
| W2 | PRIMED & PAINTED WALL SURFACE- ACCENT GRAY |
| W3 | PRIMED & PAINTED WALL SURFACE- ACCENT GREEN |
| W4 | PRIMED & PAINTED WALL SURFACE- ACCENT FULLY PURPLE |
| W5 | PRIMED & PAINTED WALL SURFACE- ACCENT CHARCOAL |
| W6 | NOT USED |
| W7 | WALL TILE - MOSA TILES GLOBAL COLLECTION 16650 GRAY |
| W8 | WALL TILE - MOSA TILES GLOBAL COLLECTION 16860 BEIGE |
| W9 | WALL TILE - MOSA TILES GLOBAL COLLECTION 20930 PURPLE |
| WE | EXISTING WALL FINISH |

**FLOOR MATERIALS**

| | |
|---|---|
| F1 | GENERAL CARPET - PATCRAFT 10294 IDEA, COLOR: 00590 MINDSET |
| F2 | ACCENT CARPET - PATCRAFT 10294 IDEA, COLOR 00100 INSIGHT |
| F3 | VINYL TILE FLOORING - ARMSTRONG STRATIONS 68T, T 3608 WARM GRAY |
| F4 | MOSAIC FLOOR TILE - DALTILE KEYSTONES BLOCK RANDOM, DESERT GRAY SPECKLE |
| F5 | |
| F6 | RUBBER FLOORING - MONDO SPORT IMPACT 011 MEDIUM GREY |
| F7 | RUBBER FLOORING - MONDO SPORT IMPACT 018 DARK GREY |
| F8 | RUBBER FLOORING - MONDO SPORT IMPACT 026 PURPLE |
| F9 | RUNNING TRACK - MONDO |
| F10 | ATHLETIC WOODFLOOR |
| F11 | PORCELAIN TILE - 12X24 Q-STONE |
| F12 | ENTRANCE / WALK OFF MATTING CARPET SYSTEM |
| F13 | TRAFFIC COATING |
| F14 | SEALED CONCRETE |
| F15 | VCT |
| FE | EXISTING FLOOR MATERIAL |

**WOOD**

| | |
|---|---|
| WD1 | WOOD DOORS - VT INDUSTRIES WHITE MAPLE VENEER, CLEAR FINISH CL07 |
| WD2 | STAINED AND FINISHED MDF PANEL- LIGHT |
| WD3 | STAINED AND FINISHED MDF PANEL MDF - DARK |

**BASE MATERIALS**

| | |
|---|---|
| B1 | 4" RUBBER BASE - JOHNSONITE; 20 CHARCOAL |
| B2 | VENTED BASE - SEE DETAIL A4/A590 |
| B3 | CERAMIC TILE BASE |
| B4 | NO BASE - CAULK BETWEEN FLOOR & WALL |
| B5 | WRAP TRAFFIC COATING UP WALL 4" |
| BE | EXISTING BASE |

**SURFACE MATERIALS**

| | |
|---|---|
| PL1 | PLASTIC LAMINATE - WILSONART 7949K-18 ASIAN NIGHT (DARK GRAY) |
| PL2 | PLASTIC LAMINATE - WILSONART 4878-38 PEWTER MESH (LIGHT GRAY) |
| PL3 | PLASTIC LAMINATE - NEVAMAR VOUS TEMPEST VS6002T (MEDIUM GRAY) |
| PL4 | PLASTIC LAMINATE - NEVAMAR EXTREME GREEN BAMBOO TEXTURED WX5001T (GREEN) |
| SS1 | SOLID SURFACE - CAMBRIA WAVERTON 0250 (WHITE) |
| SS2 | SOLID SURFACE - CAMBRIA WAVERTON 0250 (WHITE) |
| PLE | EXISTING PLASTIC LAMINATE |
| SSE | EXISTING SOLID SURFACE |

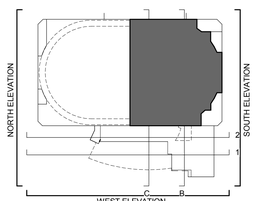
## GENERAL FINISH NOTES

1. ALL FLOOR TRANSITIONS LOCATED AT CENTER OF DOOR.
2. SEE ELEVATION SHEETS FOR ALL WALL TILE PATTERNS.
3. FIELD VERIFY ALL DIMENSIONS BEFORE FABRICATION OF MILLWORK.
4. COORDINATE ALL MILLWORK WITH APPLIANCES BEFORE FABRICATION.
5. ALL WINDOW SILLS TO BE SOLID SURFACE U.N.O.
6. ALL WOOD TRIM TO BE STAINED TO MATCH DOOR STAIN.
7. ALL COUNTERTOPS TO BE PLASTIC LAMINATE, U.N.O.
8. FLOOR TILE PATTERNS TO BE INSTALLED AS INDICATED ON FINISH AND SIGNAGE PLAN.
9. TYPICAL TILE DIRECTION PATTERNS TO BE MAINTAINED AND CONSISTENT THROUGHOUT INDICATED SPACE.

## BID ALTERNATE #1 LEGEND

BID ALTERNATE #1: REMOVE AND REPLACE GREEN PORTIONS OF ATHLETIC FLOOR. REPLACE WITH RUBBER ATHLETIC FLOORING.

## KEY PLAN




VCBO
ARCHITECTURE
VALENTINER
CRANE
BRUNJES
ONYON

REGISTERED ARCHITECT
No. 163927
BRENT R. TIPPETS
10-2-12
STATE OF UTAH

VCBO ARCHITECTURE
524 SOUTH 600 EAST
SALT LAKE CITY, UT 84102
Phone: (801) 575-8800
Fax: (801) 531-9850
WWW: www.vcbo.com

**DFCM CODE COMPLIANCE STAMP**

# Student Activity Center
## Stromberg Addition - BID SET
Weber State University
3750 Harrison Blvd. Ogden, UT 84408

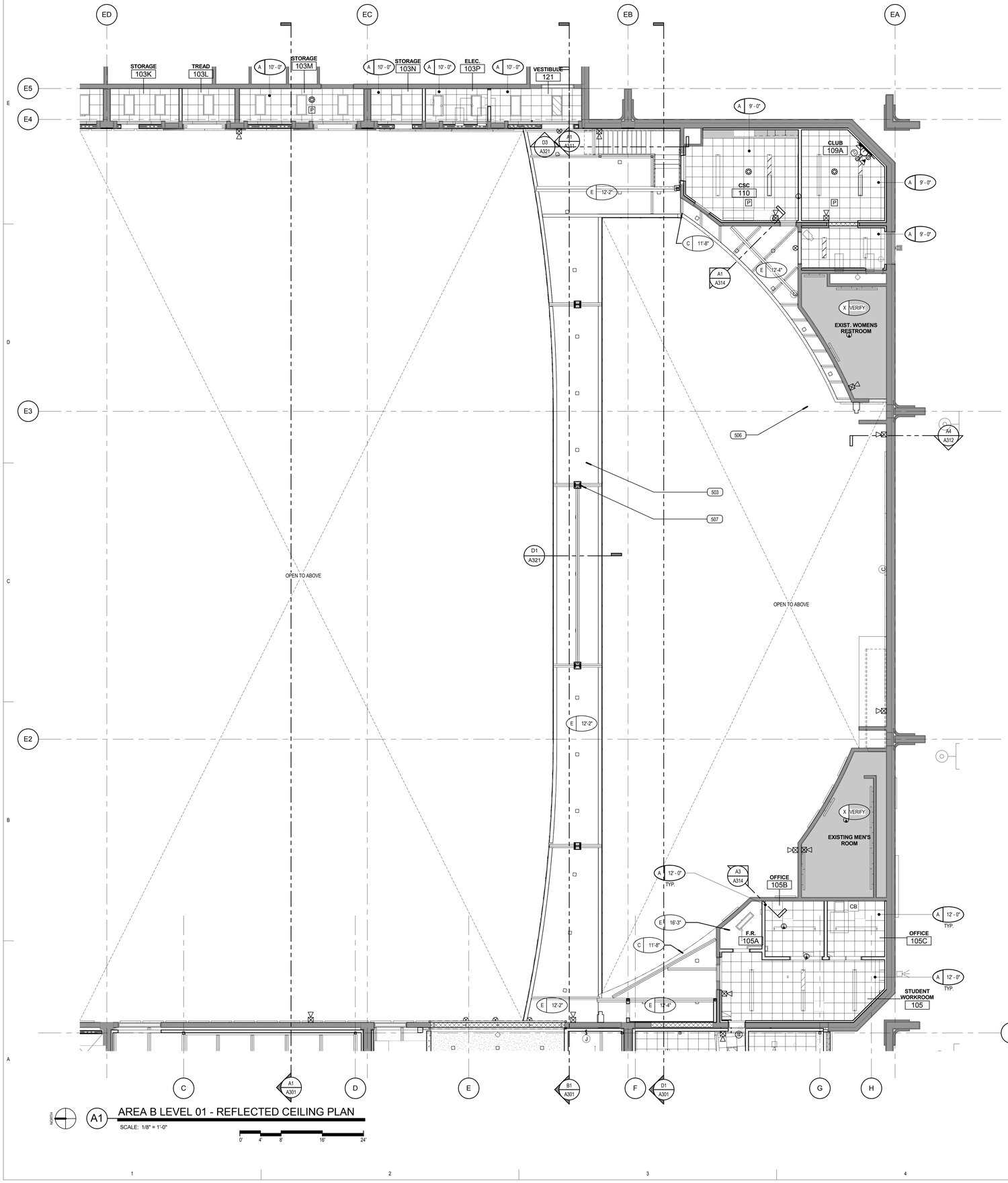
| Rev # | Date | Description |
|---|---|---|

Job # 12475
CAD File
Drawn Author Checked Checker
Date 10.03.2012
Owner # DFCM #12031810

LEVEL 01 AREA B - FINISH PLAN

A112.3

10/3/2012 3:10:18 PM




NORTH

A1 AREA B LEVEL 01 - REFLECTED CEILING PLAN

SCALE: 1/8" = 1'-0"

0' 4' 8' 16' 24'

## KEYED NOTES

503 STEEL DECK PAINTED WHERE EXPOSED
506 STEEL CHANNEL PAINTED WHERE EXPOSED
507 STEEL COLUMN PAINTED WHERE EXPOSED

## CEILING LEGEND

- A- SUSPENDED 2' X 2' ACOUSTICAL LAY-IN TILE CEILING
- B- SUSPENDED 2' X 4' ACOUSTICAL LAY-IN TILE CEILING
- C- SUSPENDED 5/8" GYP. BD. CEILING SYSTEM - (1 LAYER) PAINTED. APPLY EPOXY PAINT IN WET AREAS.
- D- SUSPENDED 2' X 2' METAL SCULPTURAL LAY-IN TILE CEILING.
- E- OPEN TO STRUCTURE ABOVE, PAINTED.
- F- METAL SOFFIT SYSTEM
- G- 2 HOUR FIRE-RATED CEILING ASSEMBLY. (2) LAYERS TYPE-X GYP. BOARD.
- J- COMPOSITE METAL PANEL
- X- EXISTING CEILING SYSTEM, TO REMAIN

## CEILING SYMBOLS

**ELECTRICAL**

- 2'X4' FLUORESCENT FIXTURE
- 2'X2' FLUORESCENT FIXTURE
- 1'X4' FLUORESCENT FIXTURE
- FLUORESCENT STRIP FIXTURE
- RECESSED DOWN LIGHT
- WALL WASH
- 1'X4' FLUORESCENT FIXTURE
- EXIT SIGN, SINGLE-SIDED
- EXIT SIGN, DOUBLE-SIDED
- F FIRE ALARM
- S SPEAKER
- P SMOKE DETECTOR
- W WIRELESS INTERNET

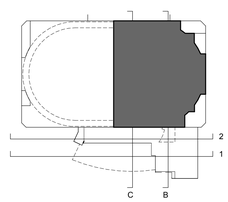
**MECHANICAL**

- SUPPLY GRILLE
- RETURN GRILLE
- EXHAUST GRILLE
- LINEAR DIFFUSER
- SPRINKLER HEAD - CEILING MOUNT
- SPRINKLER HEAD - WALL MOUNT

## GENERAL CEILING NOTES

1. REFER TO DETAIL C6/A530 FOR TYPICAL CEILING SUSPENSION & SEISMIC BRACING
2. REFER TO DETAIL A6/A530 FOR TYPICAL SUSPENDED GYP. BOARD CEILINGS
3. ALL UNIDENTIFIED CEILING TYPES ON THE PLANS SHALL BE TYPE " A" AT 9'-4" A.F.F.
4. GRID SUSPENSION SYSTEMS SHALL BE CENTERED WITHIN AREAS INDICATED, UNLESS NOTED OTHERWISE
5. PAINT ALL EXPOSED STRUCTURE, MECHANICAL, DUCTS, ELECTRICAL WORK, PIPING, ETC. ALL VISIBLE ELEMENTS TO BE PAINTED AT TYPE "E" & TYPE "A" (ABOVE CEILING CLOUDS WHERE VISABLE)
6. REFER TO ARCHITECTURAL DRAWINGS FOR LOCATION OF MECHANICAL GRILLES, AND TO MECHANICAL DRAWINGS FOR QUANTITIES AND TYPES
7. REFER TO ARCHITECTURAL DRAWINGS FOR LOCATIONS OF LIGHT FIXTURES AND TO ELECTRICAL DRAWINGS FOR QUANTITY AND TYPES
8. MECHANICAL AND ELECTRICAL CONTRACTORS TO COORDINATE WORK WITH SPRINKLER CONTRACTOR TO AVOID CONFLICTS IN FIELD
9. ALL CEILING HEIGHTS ARE ELEVATION ABOVE TOP OF CONCRETE FLOOR SLAB
10. ALL TYPE C CEILINGS IN RESTROOMS, LOCKER ROOMS, SHOWERS, AND WET AREAS TO BE EPOXY PAINTED

## KEY PLAN




VCBO ARCHITECTURE
524 SOUTH 600 EAST
SALT LAKE CITY, UT 84102
Phone: (801) 575-8800
Fax: (801) 531-9850
WWW: www.vcbo.com

DFCM CODE COMPLIANCE STAMP

# Student Activity Center
## Stromberg Addition - BID SET
Weber State University
3750 Harrison Blvd. Ogden, UT 84408

| Rev # | Date | Description |
|---|---|---|

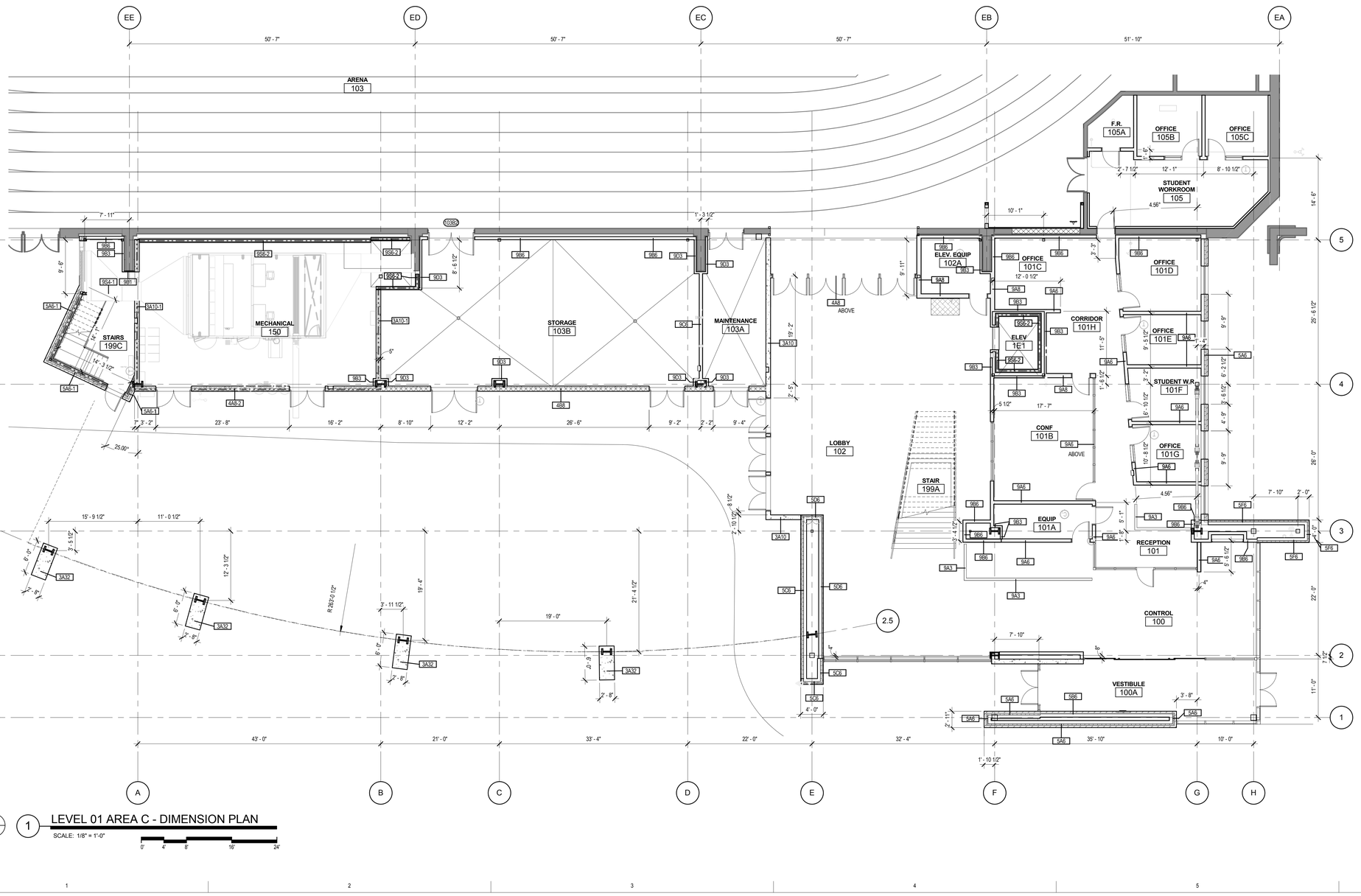
Job # 12475
CAD File
Drawn Author Checked Checker
Date 10.03.2012
Owner # DFCM #12031810

LEVEL 01 AREA B - REFLECTED CEILING PLAN

A112.4

10/3/2012 3:10:24 PM

## KEYED NOTES




1 LEVEL 01 AREA C - DIMENSION PLAN

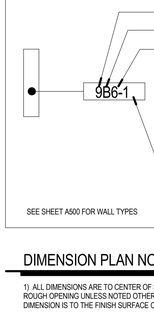
SCALE: 1/8" = 1'-0"

0' 4' 8' 16' 24'

## PARTITION TYPE SYMBOL DEFINITION

**SYMBOL DEFINITION**

BASIC PARTITION TYPE AND ADDITIONAL PARTITION COMPONENTS, IF ANY, ARE INDICATED IN THE FLOOR PLANS BY THE FOLLOWING SYMBOL




SEE SHEET A500 FOR WALL TYPES

## DIMENSION PLAN NOTES

1) ALL DIMENSIONS ARE TO CENTER OF STUD WALL OR FACE OF CONCRETE, MASONRY OR ROUGH OPENING UNLESS NOTED OTHERWISE. WHERE THE END OF A WALL IS INDICATED THE DIMENSION IS TO THE FINISH SURFACE OF THE WALL END.

2) DIMENSIONS ARE TO FACE-OF-FINISH WHEN MARKED CLR (CLEAR DIMENSION)

3) WHERE A.D.A. 5'-0" ACCESIBILITY DIMENSION IS REQUIRED, IT IS FACE-OF-FINISH CLEAR DIMENSION.

4) U.N.O., WHERE WALLS ARE SHOWN OVER GRIDLINES, CENTER STUD TRACK ON GRIDLINE.

5) WHERE POSSIBLE AND U.N.O. DOOR LOCATIONS ON OPPOSITE SIDES OF HALLWAYS AND COMMON SPACES ARE TO ALIGN DIMENSIONALLY.

6) U.N.O. ALIGN FACE OF FINISH WHERE VARYING WALL TYPES ARE SHOWN ADJACENT TO EACH OTHER IN A ROW.

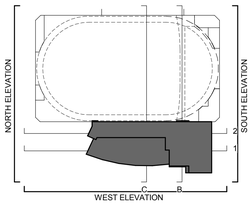
7) WHERE KEYED ON FLOOR PLANS, REFER TO ENLARGED FLOOR PLAN DRAWINGS AND DETAIL DRAWINGS FOR DIMENSIONS.

8) UNLESS DIMENSIONED OTHERWISE, THE DIMENSION FROM THE BUCK OF A DOOR FRAME IS TO BE 4" TO THE WALL CORNER.

9) PROVIDE GLASS MAT GYPSUM BOARD AT ALL TILE AREAS.

10) EXCEPT WHERE DIRECTED TO PLACE ITEMS OF WORK AT THE APPROXIMATE LOCATION SHOWN, DO NOT SCALE DRAWINGS FOR DIMENSIONAL INFORMATION. ALL ELEMENTS OF THE DRAWINGS MAY NOT BE DRAWN TO EXACT SCALE. ALL DIMENSIONS REQUIRED ARE SHOWN OR MAY BE DERIVED FROM THOSE SHOWN ON THE FLOOR PLANS, DETAIL PLANS, ELEVATIONS, SECTIONS, DETAILS, SCHEDULES AND SPECIFICATIONS. IF DIMENSIONS ARE NOT PRESENT, THE ARCHITECT IS TO BE NOTIFIED SO THAT A CLARIFICATION CAN BE ISSUED

## KEY PLAN





VCBO
ARCHITECTURE
VALENTINER
CRANE
BRUNJES
ONYON

VCBO ARCHITECTURE
524 SOUTH 600 EAST
SALT LAKE CITY, UT 84102
Phone: (801) 575-8800
Fax: (801) 531-9850
WWW: www.vcbo.com


LICENSED ARCHITECT
No. 13392
BRENT R. TIPPETS
10-2-12
STATE OF UTAH

DFCM CODE COMPLIANCE STAMP

# Student Activity Center
## Stromberg Addition - BID SET
Weber State University
3750 Harrison Blvd. Ogden, UT 84408

| Rev # | Date | Description |
|---|---|---|

Job # 12475
CAD File
Drawn Author Checked Checker
Date 10.03.2012
Owner # DFCM #12031810

LEVEL 01 AREA C - DIMENSION PLAN

A113.1

10/3/2012 3:10:30 PM

## ANNOTATED FLOOR PLAN NOTES

| SYMBOLOGY | |
|---|---|
| 0003P | DOOR NUMBER (SEE SHEET A600.0 FOR DOOR SCHEDULE) |
| C12 | WINDOW NUMBER (SEE SHEETS A610.0, A611.0, A620.0 FOR WINDOW TYPES) |
| | EXISTING AREA/ ITEM TO REMAIN |

1. WHERE FLOOR DRAINS ARE INSTALLED, THE FLOOR IS TO SLOPE TO THE DRAIN. THE MAXIMUM SLOPE IS NOT OT EXCEED 2% WHILE THE MINIMUM SLOPE IS NOT TO BE LESS THAN 1%.
2. WHERE CONCRETE PADS ARE CALLED TO BE CONSTRUCTED UNDER EQUIPMENT, THE SLAB IS TO BE 8" THICK, U.N.O., AND IS TO HAVE #4 BARS AT 18" O.C. EACH WAY. COORDINATE DIMENSIONS OF PAD WITH ACTUAL EQUIPMENT SPEC.
3. SEE TYPICAL FLOORING TRANSITION DETAILS SHEET A590.
4. THE CONTRACTOR IS TO ENSURE THAT BETWEEN ANY FINISH FLOOR ELEVAITON TO 34" A.F.F. ALL GUARDRAILS ARE TO BE CONSTRUCTED AND INSTALLED SO THAT A 4" SPHERE WILL NOT PASS BETWEEN ANY TOW ADJACENT GUARDRAIL COMPONENTS OR BETWEEN THE EDGE OF A GUARDRAIL AND ALL ADJACENT BUILDING ELEMENTS SUCH AS A WALL OR FLOOR. AND 8" DIAMETER SHPERE IS NOT TO PASS BETWEEN THE ABOVE MENTIONED COMPONENTS AND ELEMENTS FROM AN ELEVATION 34" A.F.F. AND HIGHER.
5. SEE TYPICAL FIRE EXTINGUISER CABINET INSTALLATION DETAILS.

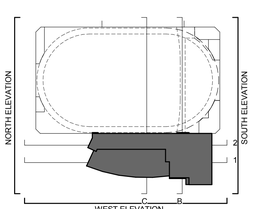
## KEYED NOTES

| | |
|---|---|
| 311 | REINFORCED CONCRETE COLUMN |
| 914 | CERAMIC WALL TILE |
| 1027 | BUILT IN DISPLAY CASE |
| 1028 | DRINKING FOUNTAIN WITH BOTTLE FILLER |
| 1031 | LCD SCREEN NIC |
| 1122 | ICE MACHINE, NIC |
| 2107 | FIRE EXTINGUISHER CABINET |
| 2202 | FLOOR DRAIN, SEE DETAIL B6/A590 |

LCD SCREEN (N.I.C.) INTENDED FOR BUILDING MONITOR ENERGY DASHGUARD FROM BUILDING MANAGEMENT SYSTEM, COORDINATE INTERFACE CONTROLS AS REQUIRED WITH CONTRACTOR

A1 FIRST FLOOR PLAN
SCALE: 1/8" = 1'-0"

## KEY PLAN




VCBO
ARCHITECTURE
VALENTINER
CRANE
BRUNJES
ONYON

REGISTERED ARCHITECT
STATE OF UTAH
No. 13392
BRENT R. TIPPETS
10-2-12

VCBO ARCHITECTURE
524 SOUTH 600 EAST
SALT LAKE CITY, UT 84102
Phone: (801) 575-8800
Fax: (801) 531-9850
WWW: www.vcbo.com

DFCM CODE COMPLIANCE STAMP

# Student Activity Center
## Stromberg Addition - BID SET
Weber State University
3750 Harrison Blvd. Ogden, UT 84408

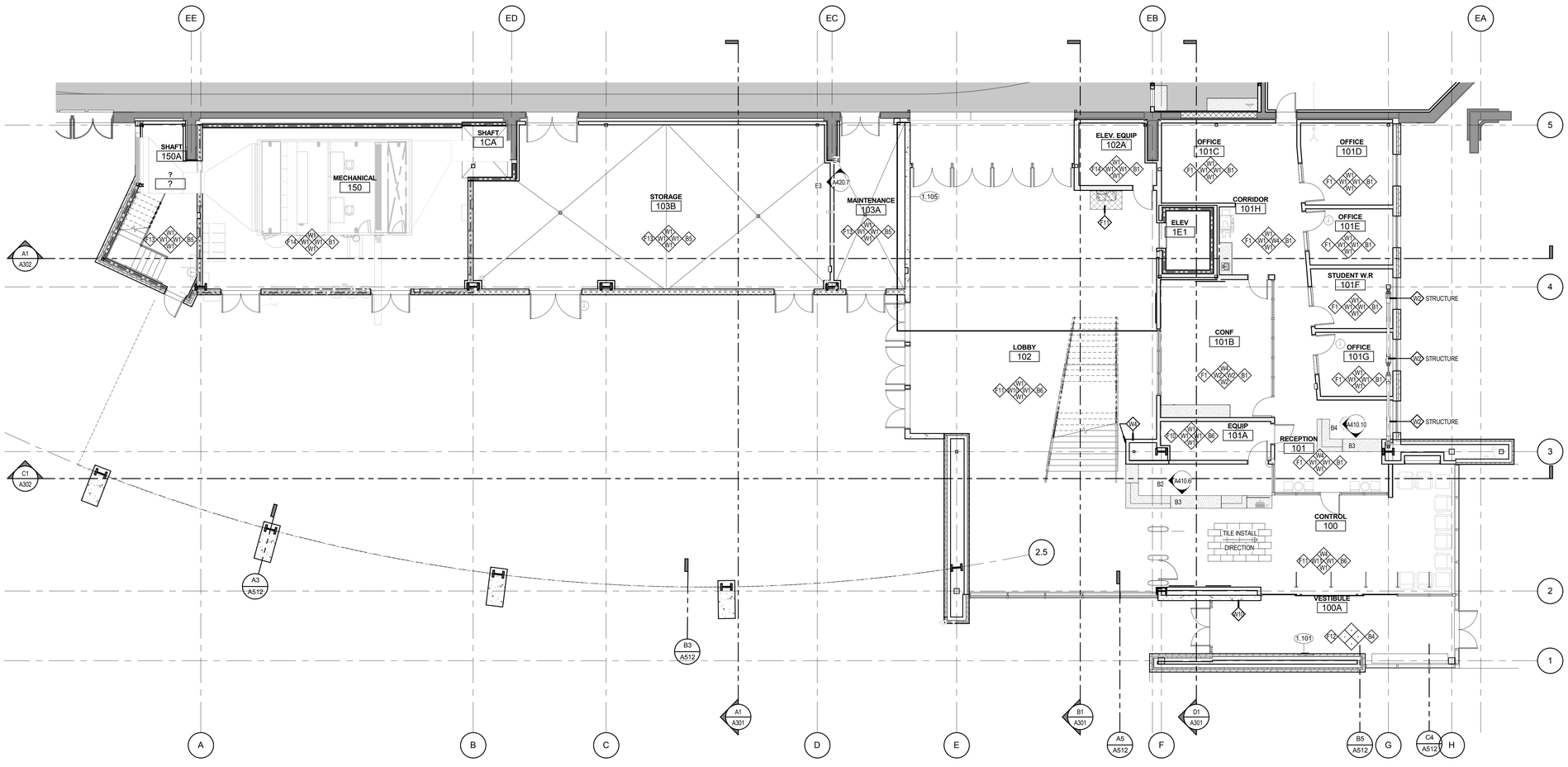
| Rev # | Date | Description |
|---|---|---|

Job # 12475
CAD File
Drawn Author Checked Checker
Date 10.03.2012
Owner # DFCM #12031810

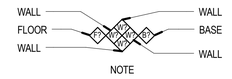
LEVEL 01 AREA C - ANNOTATED PLAN

A113.2

10/3/2012 3:10:35 PM




## FINISH PLAN SYMBOLS




SINGLE FINISH SYMBOLS INDICATE WHERE FINISHES ARE DIFFERENT FROM GENERAL ROOM FINISHES, OR PROVIDE ADDITIONAL FINISH INFORMATION

CHANGE AT FLOOR MATERIAL SEE DETAIL D1/A370 FLOOR TRANSITION

XXXX SIGNAGE TAG- SEE SIGNAGE SCHEDULE AND SHEET A800 FOR MORE INFORMATION

STAINLESS STEEL CORNER GUARD TO 4'-0" A.F.F.

## FINISH PLAN LEGEND

NOTE: REFER TO FINISH SCHEDULE IN SPECIFICATIONS, DIVISION 9, FOR INTERIOR FINISH SELECTIONS AND SPECIFICATIONS.

**WALL MATERIALS**

| | |
|---|---|
| W1 | PRIMED & PAINTED WALL SURFACE- GENERAL WHITE |
| W2 | PRIMED & PAINTED WALL SURFACE- ACCENT GRAY |
| W3 | PRIMED & PAINTED WALL SURFACE- ACCENT GREEN |
| W4 | PRIMED & PAINTED WALL SURFACE- ACCENT FULLY PURPLE |
| W5 | PRIMED & PAINTED WALL SURFACE- ACCENT CHARCOAL |
| W6 | NOT USED |
| W7 | WALL TILE - MOSA TILES GLOBAL COLLECTION 16650 GRAY |
| W8 | WALL TILE - MOSA TILES GLOBAL COLLECTION 16860 BEIGE |
| W9 | WALL TILE - MOSA TILES GLOBAL COLLECTION 20930 PURPLE |
| WE | EXISTING WALL FINISH |

**FLOOR MATERIALS**

| | |
|---|---|
| F1 | GENERAL CARPET - PATCRAFT 10294 IDEA, COLOR: 00590 MINDSET |
| F2 | ACCENT CARPET - PATCRAFT 10294 IDEA, COLOR 00100 INSIGHT |
| F3 | VINYL TILE FLOORING - ARMSTRONG STRATIONS IBIT, T 3608 WARM GRAY |
| F4 | MOSAIC FLOOR TILE - DALTILE KEYSTONES BLOCK RANDOM, DESERT GRAY SPECKLE |
| F5 | |
| F6 | RUBBER FLOORING - MONDO SPORT IMPACT 011 MEDIUM GREY |
| F7 | RUBBER FLOORING - MONDO SPORT IMPACT 018 DARK GREY |
| F8 | RUBBER FLOORING - MONDO SPORT IMPACT 026 PURPLE |
| F9 | RUNNING TRACK - MONDO |
| F10 | ATHLETIC WOODFLOOR |
| F11 | PORCELAIN TILE - 12X24 Q-STONE |
| F12 | ENTRANCE / WALK OFF MATTING CARPET SYSTEM |
| F13 | TRAFFIC COATING |
| F14 | SEALED CONCRETE |
| F15 | VCT |
| FE | EXISTING FLOOR MATERIAL |

**WOOD**

| | |
|---|---|
| WD1 | WOOD DOORS - VT INDUSTRIES WHITE MAPLE VENEER, CLEAR FINISH CL07 |
| WD2 | STAINED AND FINISHED MDF PANEL- LIGHT |
| WD3 | STAINED AND FINISHED MDF PANEL MDF - DARK |

**BASE MATERIALS**

| | |
|---|---|
| B1 | 4" RUBBER BASE - JOHNSONITE; 20 CHARCOAL |
| B2 | VENTED BASE - SEE DETAIL A4/A590 |
| B3 | CERAMIC TILE BASE |
| B4 | NO BASE - CAULK BETWEEN FLOOR & WALL |
| B5 | WRAP TRAFFIC COATING UP WALL 4" |
| BE | EXISTING BASE |

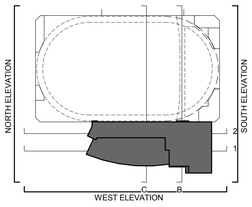
**SURFACE MATERIALS**

| | |
|---|---|
| PL1 | PLASTIC LAMINATE - WILSONART 7949K-18 ASIAN NIGHT (DARK GRAY) |
| PL2 | PLASTIC LAMINATE - WILSONART 4878-38 PEWTER MESH (LIGHT GRAY) |
| PL3 | PLASTIC LAMINATE - NEVAMAR VOUS TEMPEST VS60027 (MEDIUM GRAY) |
| PL4 | PLASTIC LAMINATE - NEVAMAR EXTREME GREEN BAMBOO TEXTURED WX5001T (GREEN) |
| SS1 | SOLID SURFACE - CAMBRIA WAVERTON 0250 (WHITE) |
| SS2 | SOLID SURFACE - CAMBRIA WAVERTON 0250 (WHITE) |
| PLE | EXISTING PLASTIC LAMINATE |
| SSE | EXISTING SOLID SURFACE |

## GENERAL FINISH NOTES

1. ALL FLOOR TRANSITIONS LOCATED AT CENTER OF DOOR.
2. SEE ELEVATION SHEETS FOR ALL WALL TILE PATTERNS.
3. FIELD VERIFY ALL DIMENSIONS BEFORE FABRICATION OF MILLWORK.
4. COORDINATE ALL MILLWORK WITH APPLIANCES BEFORE FABRICATION.
5. ALL WINDOW SILLS TO BE SOLID SURFACE U.N.O.
6. ALL WOOD TRIM TO BE STAINED TO MATCH DOOR STAIN.
7. ALL COUNTERTOPS TO BE PLASTIC LAMINATE, U.N.O.
8. FLOOR TILE PATTERNS TO BE INSTALLED AS INDICATED ON FINISH AND SIGNAGE PLAN.
9. TYPICAL TILE DIRECTION PATTERNS TO BE MAINTAINED AND CONSISTENT THROUGHOUT INDICATED SPACE.

## KEY PLAN




NORTH

A1 LEVEL 01 AREA C - DIMENSION PLAN

SCALE: 1/8" = 1'-0"

0' 4' 8' 16' 24'

10/3/2012 3:10:41 PM

VCBO
ARCHITECTURE
VALENTINER
CRANE
BRUNJES
ONYON

REGISTERED ARCHITECT
STATE OF UTAH
BRENT R. TIPPETS
10-2-12

VCBO ARCHITECTURE
524 SOUTH 600 EAST
SALT LAKE CITY, UT 84102
Phone: (801) 575-8800
Fax: (801) 531-9850
WWW: www.vcbo.com

**DFCM CODE COMPLIANCE STAMP**

# Student Activity Center
## Stromberg Addition - BID SET
Weber State University
3750 Harrison Blvd. Ogden, UT 84408

| Rev # | Date | Description |
|---|---|---|

Job # 12475
CAD File
Drawn Author Checked Checker
Date 10.03.2012
Owner # DFCM #12031810

LEVEL 01 AREA C - FINISH PLAN

A113.3

## KEYED NOTES

309 REINFORCED CONCRETE WALL
503 STEEL DECK PAINTED WHERE EXPOSED

## CEILING LEGEND

- A- SUSPENDED 2' X 2' ACOUSTICAL LAY-IN TILE CEILING
- B- SUSPENDED 2' X 4' ACOUSTICAL LAY-IN TILE CEILING
- C- SUSPENDED 5/8" GYP. BD. CEILING SYSTEM - (1 LAYER) PAINTED. APPLY EPOXY PAINT IN WET AREAS.
- D- SUSPENDED 2' X 2' METAL SCULPTURAL LAY-IN TILE CEILING.
- E- OPEN TO STRUCTURE ABOVE, PAINTED.
- F- METAL SOFFIT SYSTEM
- G- 2 HOUR FIRE-RATED CEILING ASSEMBLY. (2) LAYERS TYPE-X GYP. BOARD.
- J- COMPOSITE METAL PANEL
- X- EXISTING CEILING SYSTEM, TO REMAIN

## CEILING SYMBOLS

**ELECTRICAL**

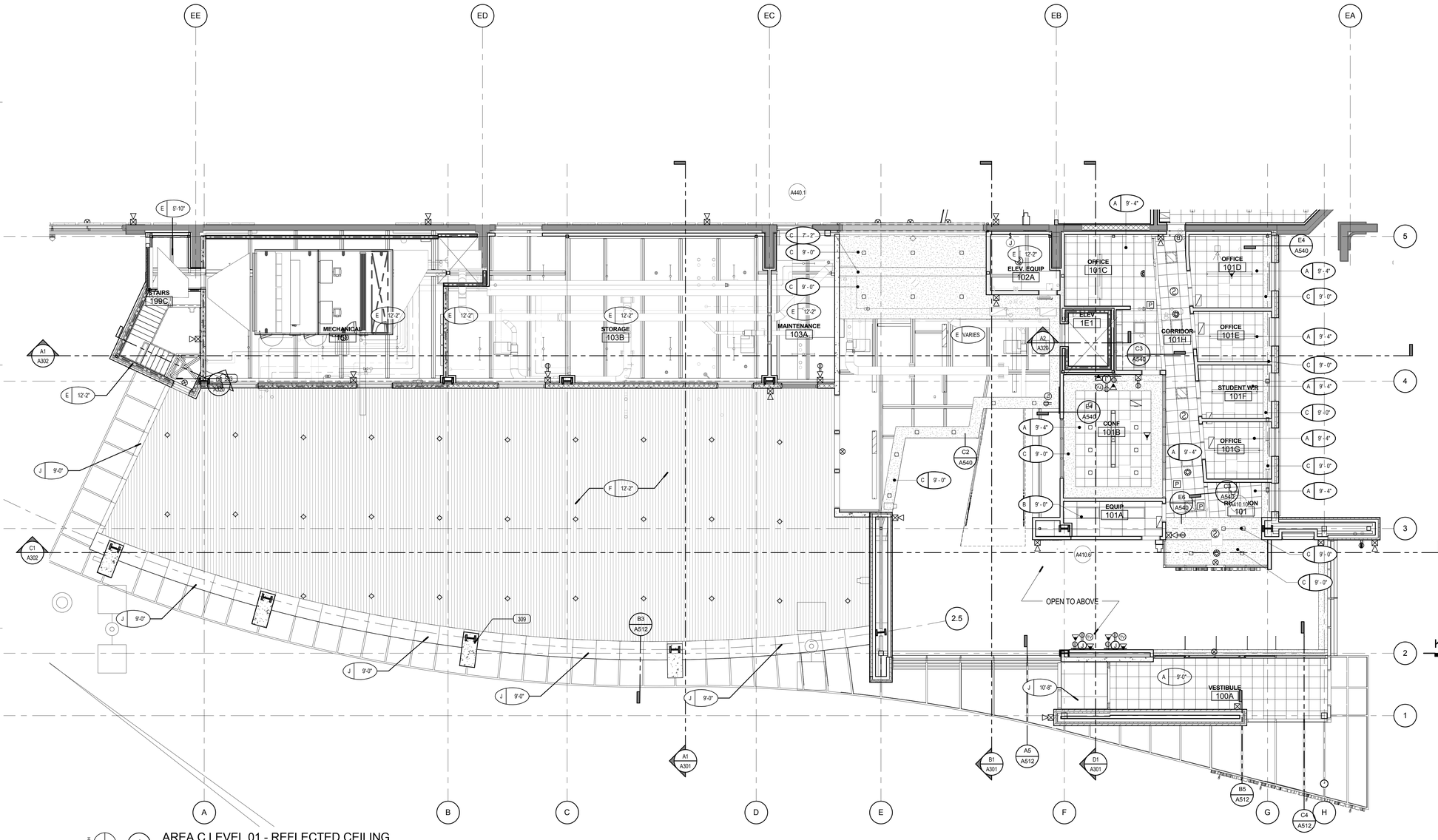
- 2'X4' FLUORESCENT FIXTURE
- 2'X2' FLUORESCENT FIXTURE
- 1'X4' FLUORESCENT FIXTURE
- FLUORESCENT STRIP FIXTURE
- RECESSED DOWN LIGHT
- WALL WASH
- 1'X4' FLUORESCENT FIXTURE
- EXIT SIGN, SINGLE-SIDED
- EXIT SIGN, DOUBLE-SIDED
- F FIRE ALARM
- S SPEAKER
- P SMOKE DETECTOR
- W WIRELESS INTERNET

**MECHANICAL**

- SUPPLY GRILLE
- RETURN GRILLE
- EXHAUST GRILLE
- LINEAR DIFFUSER
- SPRINKLER HEAD - CEILING MOUNT
- SPRINKLER HEAD - WALL MOUNT

## GENERAL CEILING NOTES

1. REFER TO DETAIL C6/A530 FOR TYPICAL CEILING SUSPENSION & SEISMIC BRACING
2. REFER TO DETAIL A6/A530 FOR TYPICAL SUSPENDED GYP. BOARD CEILINGS
3. ALL UNIDENTIFIED CEILING TYPES ON THE PLANS SHALL BE TYPE " A" AT 9'-4" A.F.F.
4. GRID SUSPENSION SYSTEMS SHALL BE CENTERED WITHIN AREAS INDICATED, UNLESS NOTED OTHERWISE
5. PAINT ALL EXPOSED STRUCTURE, MECHANICAL, DUCTS, ELECTRICAL WORK, PIPING, ETC. ALL VISIBLE ELEMENTS TO BE PAINTED AT TYPE "E" & TYPE "A" (ABOVE CEILING CLOUDS WHERE VISABLE)
6. REFER TO ARCHITECTURAL DRAWINGS FOR LOCATION OF MECHANICAL GRILLES, AND TO MECHANICAL DRAWINGS FOR QUANTITIES AND TYPES
7. REFER TO ARCHITECTURAL DRAWINGS FOR LOCATIONS OF LIGHT FIXTURES AND TO ELECTRICAL DRAWINGS FOR QUANTITY AND TYPES
8. MECHANICAL AND ELECTRICAL CONTRACTORS TO COORDINATE WORK WITH SPRINKLER CONTRACTOR TO AVOID CONFLICTS IN FIELD
9. ALL CEILING HEIGHTS ARE ELEVATION ABOVE TOP OF CONCRETE FLOOR SLAB
10. ALL TYPE C CEILINGS IN RESTROOMS, LOCKER ROOMS, SHOWERS, AND WET AREAS TO BE EPOXY PAINTED

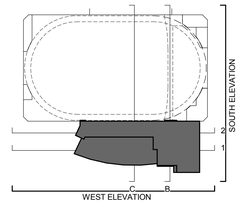



1 AREA C LEVEL 01 - REFLECTED CEILING

SCALE: 1/8" = 1'-0"

0' 4' 8' 16' 24'

## KEY PLAN




VCBO
ARCHITECTURE
VALENTINER
CRANE
BRUNJES
ONYON

VCBO ARCHITECTURE
524 SOUTH 600 EAST
SALT LAKE CITY, UT 84102
Phone: (801) 575-8800
Fax: (801) 531-9850
WWW: www.vcbo.com

LICENSED ARCHITECT 339742 BRENT R. TIPPETS 10-2-12 STATE OF UTAH

DFCM CODE COMPLIANCE STAMP

# Student Activity Center
## Stromberg Addition - BID SET
Weber State University
3750 Harrison Blvd. Ogden, UT 84408

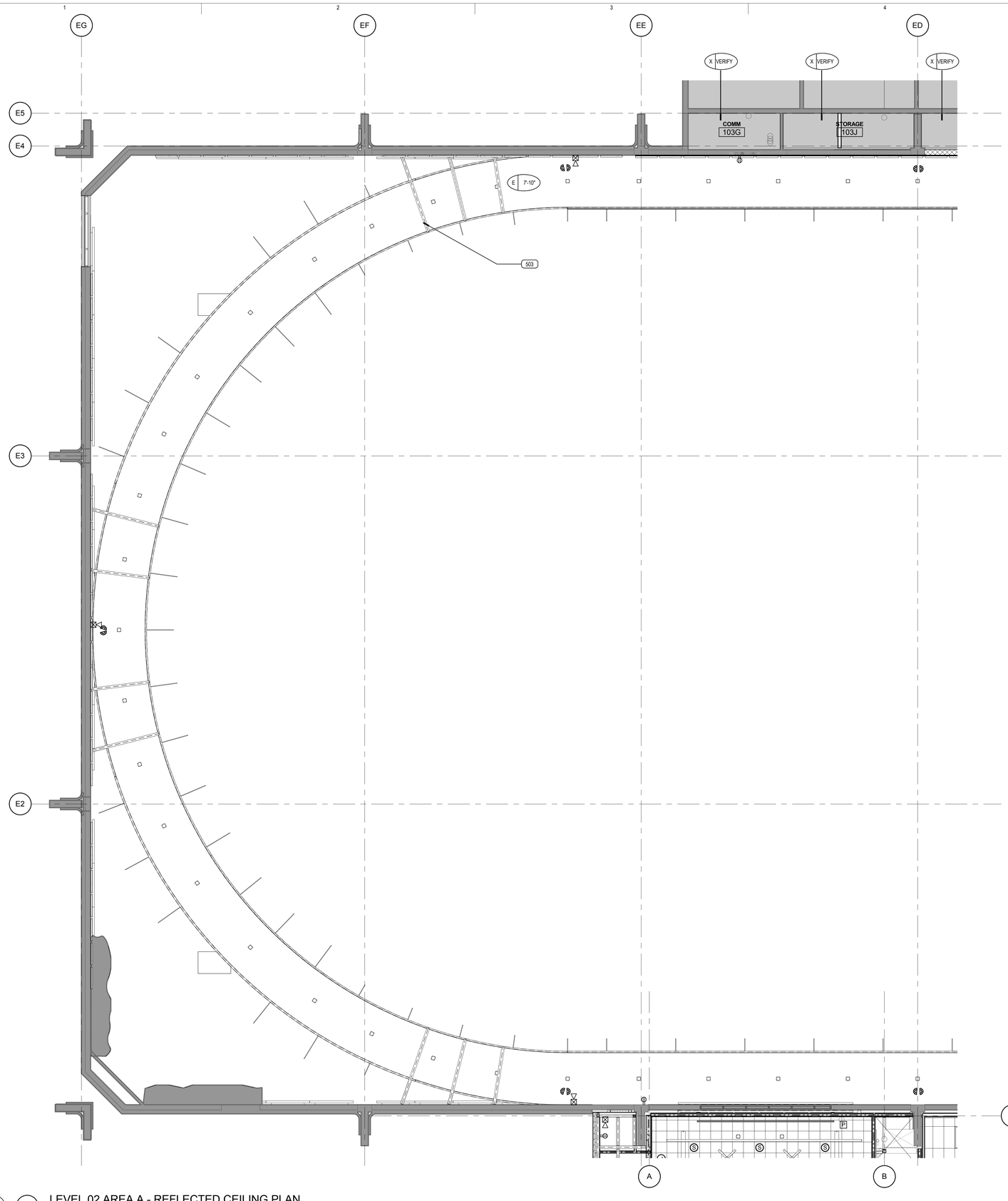
| Rev # | Date | Description |
|---|---|---|

Job # 12475
CAD File
Drawn Author Checked Checker
Date 10.03.2012
Owner # DFCM #12031810

LEVEL 01 AREA C - REFLECTED CEILING PLAN

A113.4

10/3/2012 3:10:49 PM




A1 LEVEL 02 AREA A - REFLECTED CEILING PLAN

SCALE: 1/8" = 1'-0"

NORTH

0' 4' 8' 16' 24'

## KEYED NOTES

503 STEEL DECK PAINTED WHERE EXPOSED

## CEILING LEGEND

- A- SUSPENDED 2' X 2' ACOUSTICAL LAY-IN TILE CEILING
- B- SUSPENDED 2' X 4' ACOUSTICAL LAY-IN TILE CEILING
- C- SUSPENDED 5/8" GYP. BD. CEILING SYSTEM - (1 LAYER) PAINTED. APPLY EPOXY PAINT IN WET AREAS.
- D- SUSPENDED 2' X 2' METAL SCULPTURAL LAY-IN TILE CEILING.
- E- OPEN TO STRUCTURE ABOVE, PAINTED.
- F- METAL SOFFIT SYSTEM
- G- 2 HOUR FIRE-RATED CEILING ASSEMBLY, (2) LAYERS TYPE-X GYP. BOARD.
- J- COMPOSITE METAL PANEL
- X- EXISTING CEILING SYSTEM, TO REMAIN

## CEILING SYMBOLS

**ELECTRICAL**

- 2'X4' FLUORESCENT FIXTURE
- 2'X2' FLUORESCENT FIXTURE
- 1'X4' FLUORESCENT FIXTURE
- FLUORESCENT STRIP FIXTURE
- RECESSED DOWN LIGHT
- WALL WASH
- 1'X4' FLUORESCENT FIXTURE
- EXIT SIGN, SINGLE-SIDED
- EXIT SIGN, DOUBLE-SIDED
- F FIRE ALARM
- S SPEAKER
- P SMOKE DETECTOR
- W WIRELESS INTERNET

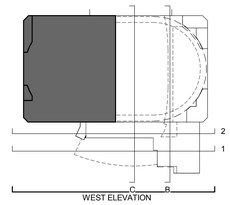
**MECHANICAL**

- SUPPLY GRILLE
- RETURN GRILLE
- EXHAUST GRILLE
- LINEAR DIFFUSER
- SPRINKLER HEAD - CEILING MOUNT
- SPRINKLER HEAD - WALL MOUNT

## GENERAL CEILING NOTES

1. REFER TO DETAIL C6/A530 FOR TYPICAL CEILING SUSPENSION & SEISMIC BRACING
2. REFER TO DETAIL A6/A530 FOR TYPICAL SUSPENDED GYP. BOARD CEILINGS
3. ALL UNIDENTIFIED CEILING TYPES ON THE PLANS SHALL BE TYPE " A" AT 9'-4" A.F.F.
4. GRID SUSPENSION SYSTEMS SHALL BE CENTERED WITHIN AREAS INDICATED, UNLESS NOTED OTHERWISE
5. PAINT ALL EXPOSED STRUCTURE, MECHANICAL, DUCTS, ELECTRICAL WORK, PIPING, ETC. ALL VISIBLE ELEMENTS TO BE PAINTED AT TYPE "E" & TYPE "A" (ABOVE CEILING CLOUDS WHERE VISABLE)
6. REFER TO ARCHITECTURAL DRAWINGS FOR LOCATION OF MECHANICAL GRILLES, AND TO MECHANICAL DRAWINGS FOR QUANTITIES AND TYPES
7. REFER TO ARCHITECTURAL DRAWINGS FOR LOCATIONS OF LIGHT FIXTURES AND TO ELECTRICAL DRAWINGS FOR QUANTITY AND TYPES
8. MECHANICAL AND ELECTRICAL CONTRACTORS TO COORDINATE WORK WITH SPRINKLER CONTRACTOR TO AVOID CONFLICTS IN FIELD
9. ALL CEILING HEIGHTS ARE ELEVATION ABOVE TOP OF CONCRETE FLOOR SLAB
10. ALL TYPE C CEILINGS IN RESTROOMS, LOCKER ROOMS, SHOWERS, AND WET AREAS TO BE EPOXY PAINTED

## KEY PLAN




WEST ELEVATION

VCBO
ARCHITECTURE
VALENTINER
CRANE
BRUNJES
ONYON

REGISTERED ARCHITECT
STATE OF UTAH
BRENT R. TIPPETS
10-2-12

VCBO ARCHITECTURE
524 SOUTH 600 EAST
SALT LAKE CITY, UT 84102
Phone: (801) 575-8800
Fax: (801) 531-9850
WWW: www.vcbo.com

DFCM CODE COMPLIANCE STAMP

# Student Activity Center
## Stromberg Addition - BID SET
Weber State University
3750 Harrison Blvd. Ogden, UT 84408

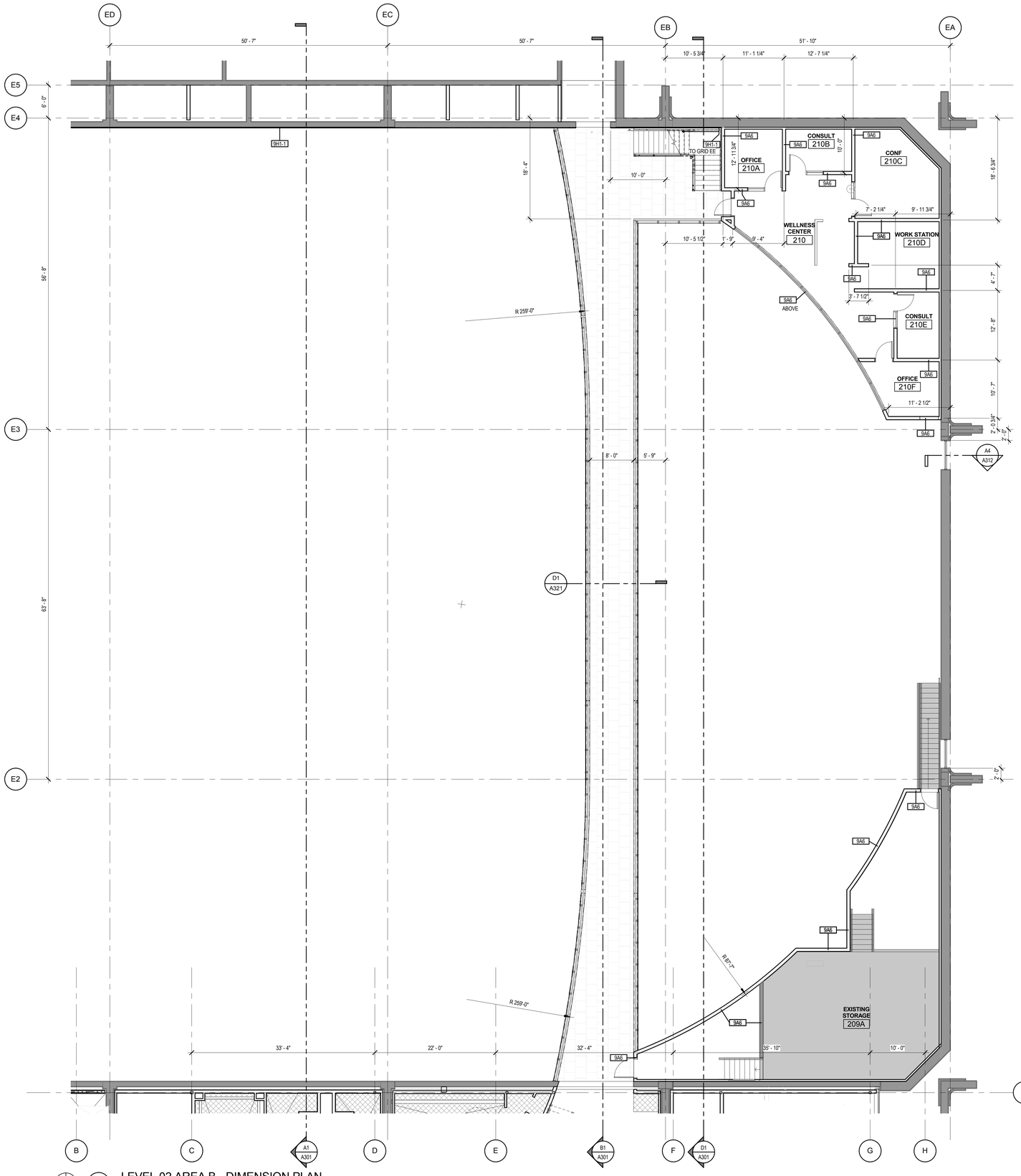
| Rev # | Date | Description |
|---|---|---|

Job # 12475
CAD File
Drawn Author Checked Checker
Date 10.03.2012
Owner # DFCM #12031810

LEVEL 02 AREA A - REFLECTED CEILING PLAN

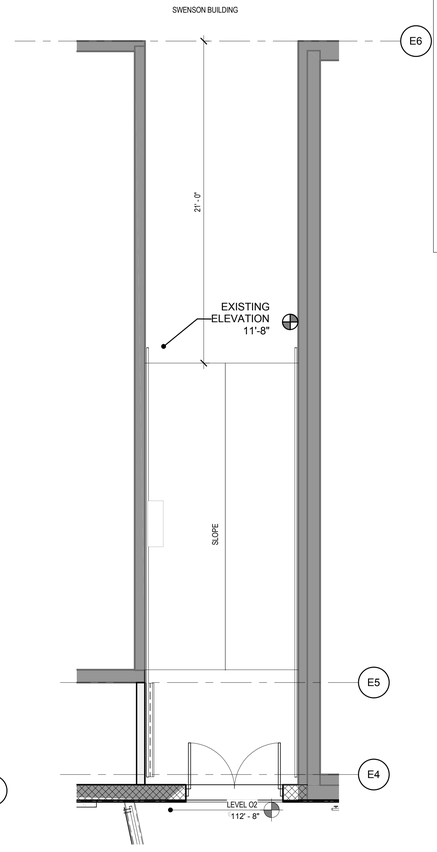
A121.4

10/3/2012 3:10:53 PM




## KEYED NOTES

611 PLASTIC LAMINATE COUNTERTOP




A5 SWENSON CORRIDOR DIMENSION PLAN

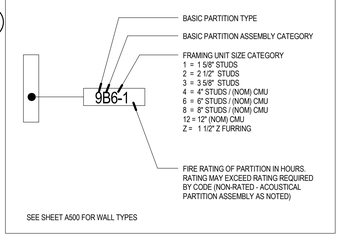
SCALE: 1/4" = 1'-0"

0' 2' 4' 8' 16'

## PARTITION TYPE SYMBOL DEFINITION

**SYMBOL DEFINITION**

BASIC PARTITION TYPE AND ADDITIONAL PARTITION COMPONENTS, IF ANY, ARE INDICATED IN THE FLOOR PLANS BY THE FOLLOWING SYMBOL




SEE SHEET A500 FOR WALL TYPES

## DIMENSION PLAN NOTES

1) ALL DIMENSIONS ARE TO CENTER OF STUD WALL OR FACE OF CONCRETE, MASONRY OR ROUGH OPENING UNLESS NOTED OTHERWISE. WHERE THE END OF A WALL IS INDICATED THE DIMENSION IS TO THE FINISH SURFACE OF THE WALL END.

2) DIMENSIONS ARE TO FACE-OF-FINISH WHEN MARKED CLR (CLEAR DIMENSION)

3) WHERE A.D.A. 5'-0" ACCESIBILITY DIMENSION IS REQUIRED, IT IS FACE-OF-FINISH CLEAR DIMENSION.

4) U.N.O., WHERE WALLS ARE SHOWN OVER GRIDLINES, CENTER STUD TRACK ON GRIDLINE.

5) WHERE POSSIBLE AND U.N.O, DOOR LOCATIONS ON OPPOSITE SIDES OF HALLWAYS AND COMMON SPACES ARE TO ALIGN DIMENSIONALLY.

6) U.N.O. ALIGN FACE OF FINISH WHERE VARYING WALL TYPES ARE SHOWN ADJACENT TO EACH OTHER IN A ROW.

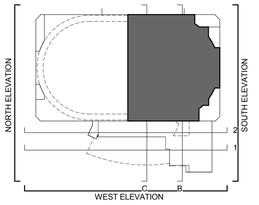
7) WHERE KEYED ON FLOOR PLANS, REFER TO ENLARGED FLOOR PLAN DRAWINGS AND DETAIL DRAWINGS FOR DIMENSIONS.

8) UNLESS DIMENSIONED OTHERWISE, THE DIMENSION FROM THE BUCK OF A DOOR FRAME IS TO BE 4" TO THE WALL CORNER.

9) PROVIDE GLASS MAT GYPSUM BOARD AT ALL TILE AREAS.

10) EXCEPT WHERE DIRECTED TO PLACE ITEMS OF WORK AT THE APPROXIMATE LOCATION SHOWN, DO NOT SCALE DRAWINGS FOR DIMENSIONAL INFORMATION. ALL ELEMENTS OF THE DRAWINGS MAY NOT BE DRAWN TO EXACT SCALE. ALL DIMENSIONS REQUIRED ARE SHOWN OR MAY BE DERIVED FROM THOSE SHOWN ON THE FLOOR PLANS, DETAIL PLANS, ELEVATIONS, SECTIONS, DETAILS, SCHEDULES AND SPECIFICATIONS. IF DIMENSIONS ARE NOT PRESENT, THE ARCHITECT IS TO BE NOTIFIED SO THAT A CLARIFICATION CAN BE ISSUED

## KEY PLAN




A1 LEVEL 02 AREA B - DIMENSION PLAN

SCALE: 1/8" = 1'-0"

0' 4' 8' 16' 24'

VCBO
ARCHITECTURE
VALENTINER
CRANE
BRUNJES
ONYON

VCBO ARCHITECTURE
524 SOUTH 600 EAST
SALT LAKE CITY, UT 84102
Phone: (801) 575-8800
Fax: (801) 531-9850
WWW: www.vcbo.com

LICENSED ARCHITECT
No. 13392
BRENT R. TIPPETS
10-2-12
STATE OF UTAH

DFCM CODE COMPLIANCE STAMP

# Student Activity Center
## Stromberg Addition - BID SET
Weber State University
3750 Harrison Blvd. Ogden, UT 84408

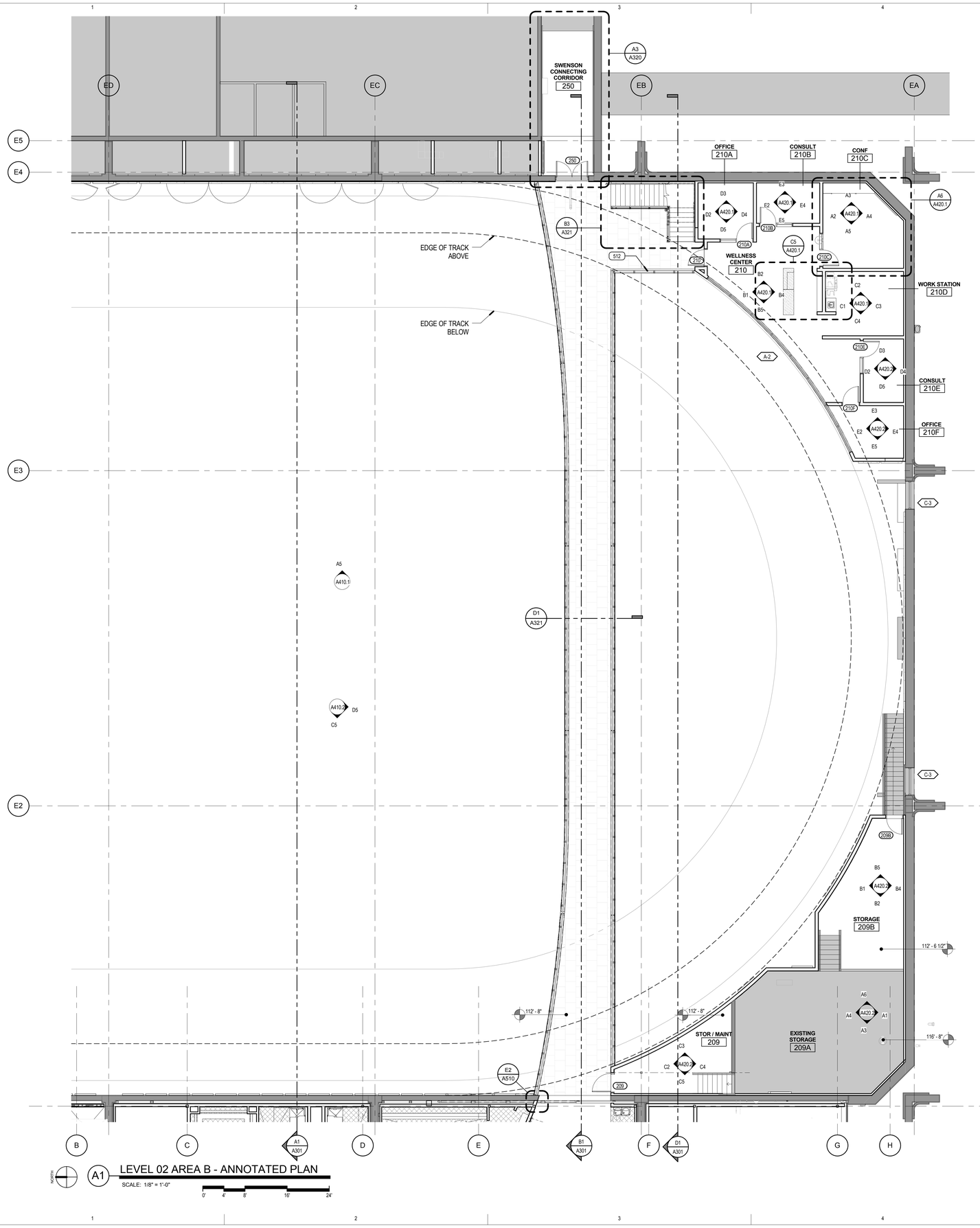
| Rev # | Date | Description |
|---|---|---|

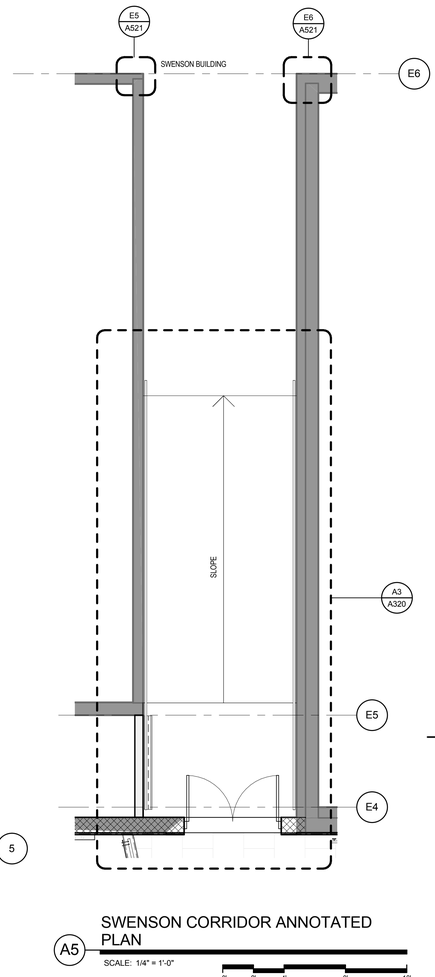
Job # 12475
CAD File
Drawn Author Checked Checker
Date 10.03.2012
Owner # DFCM #12031810

LEVEL 02 AREA B - DIMENSION PLAN

A122.1

10/3/2012 3:11:00 PM




## ANNOTATED FLOOR PLAN NOTES

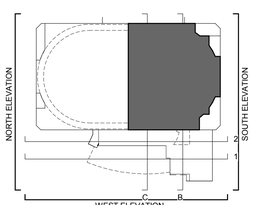
| SYMBOLOGY | |
|---|---|
| (X003F) | DOOR NUMBER (SEE SHEET A600.0 FOR DOOR SCHEDULE) |
| C12 | WINDOW NUMBER (SEE SHEETS A610.0, A611.0, A620.0 FOR WINDOW TYPES) |
| | EXISTING AREA/ ITEM TO REMAIN |

1. WHERE FLOOR DRAINS ARE INSTALLED, THE FLOOR IS TO SLOPE TO THE DRAIN. THE MAXIMUM SLOPE IS NOT OT EXCEED 2% WHILE THE MINIMUM SLOPE IS NOT TO BE LESS THAN 1%.
2. WHERE CONCRETE PADS ARE CALLED TO BE CONSTRUCTED UNDER EQUIPMENT, THE SLAB IS TO BE 8" THICK, U.N.O., AND IS TO HAVE #4 BARS AT 18" O.C. EACH WAY. COORDINATE DIMENSIONS OF PAD WITH ACTUAL EQUIPMENT SPEC.
3. SEE TYPICAL FLOORING TRANSITION DETAILS SHEET A590.
4. THE CONTRACTOR IS TO ENSURE THAT BETWEEN ANY FINISH FLOOR ELEVAITON TO 34" A.F.F. ALL GUARDRAILS ARE TO BE CONSTRUCTED AND INSTALLED SO THAT A 4" SPHERE WILL NOT PASS BETWEEN ANY TOW ADJACENT GUARDRAIL COMPONENTS OR BETWEEN THE EDGE OF A GUARDRAIL AND ALL ADJACENT BUILDING ELEMENTS SUCH AS A WALL OR FLOOR. AND 8" DIAMETER SHPERE IS NOT TO PASS BETWEEN THE ABOVE MENTIONED COMPONENTS AND ELEMENTS FROM AN ELEVATION 34" A.F.F. AND HIGHER.
5. SEE TYPICAL FIRE EXTINGUISER CABINET INSTALLATION DETAILS.

## KEYED NOTES

512 1-1/2" STEEL PIPE GUARDRAIL PAINTED TYP.

## KEY PLAN




VCBO
ARCHITECTURE
VALENTINER
CRANE
BRUNJES
ONYON

VCBO ARCHITECTURE
524 SOUTH 600 EAST
SALT LAKE CITY, UT 84102
Phone: (801) 575-8800
Fax: (801) 531-9850
WWW: www.vcbo.com

DFCM CODE COMPLIANCE STAMP

# Student Activity Center
## Stromberg Addition - BID SET
Weber State University
3750 Harrison Blvd. Ogden, UT 84408

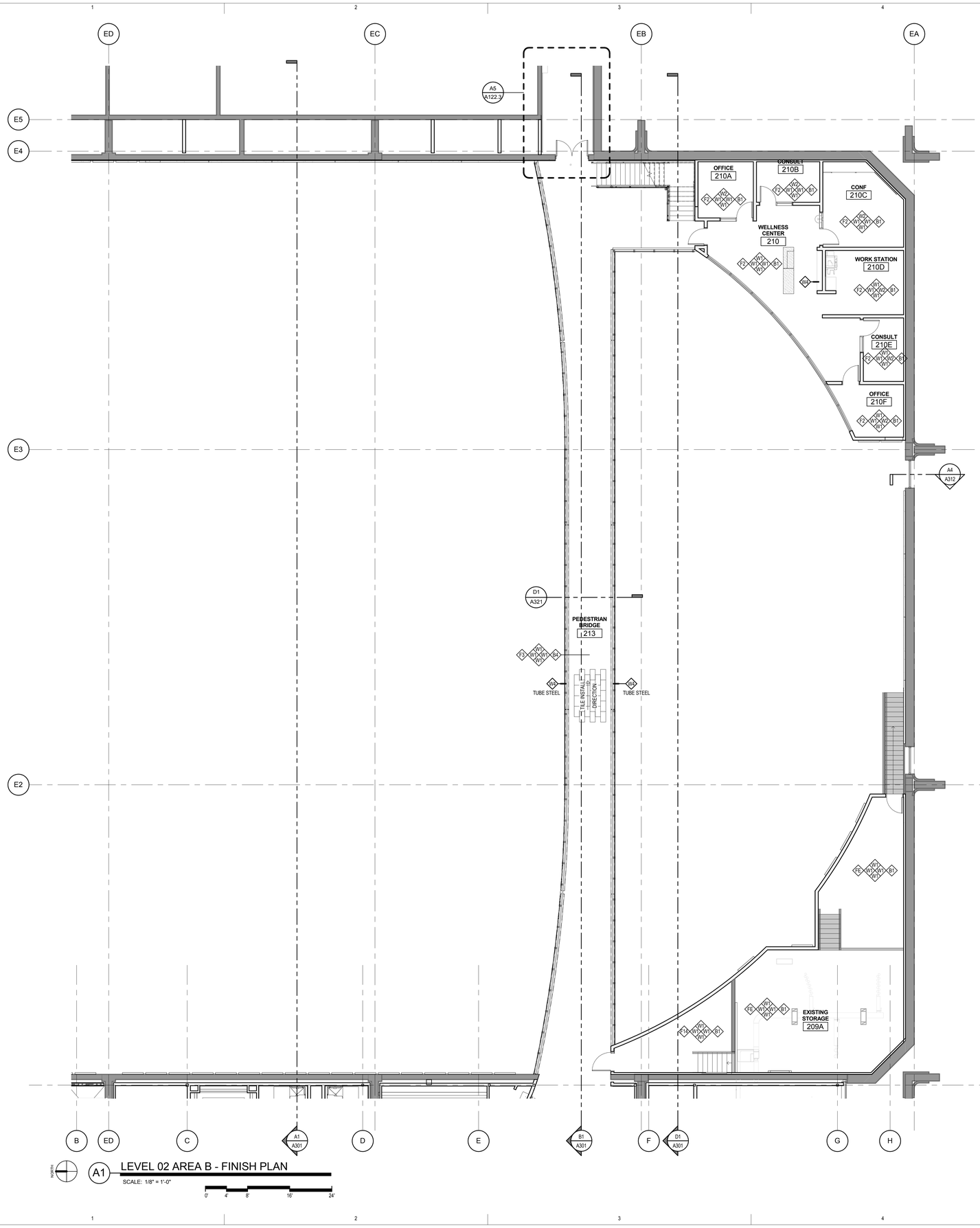
| Rev # | Date | Description |
|---|---|---|

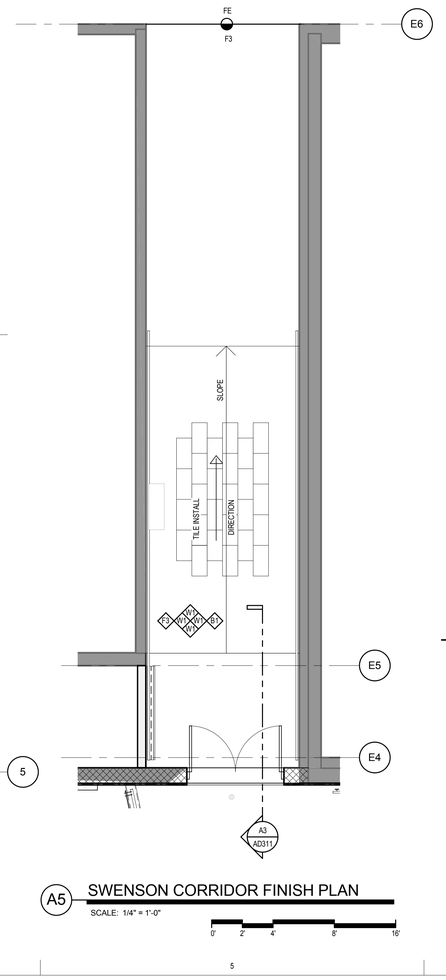
Job # 12475
CAD File
Drawn Author Checked Checker
Date 10.03.2012
Owner # DFCM #12031810

LEVEL 02 AREA B - ANNOTATED PLAN

A122.2

10/3/2012 3:11:10 PM




## FINISH PLAN SYMBOLS

WALL / FLOOR / WALL — F1 W1 W2 W3 W4 W5 B1 — WALL / BASE / WALL

NOTE

SINGLE FINISH SYMBOLS INDICATE WHERE FINISHES ARE DIFFERENT FROM GENERAL ROOM FINISHES, OR PROVIDE ADDITIONAL FINISH INFORMATION

CHANGE AT FLOOR MATERIAL SEE DETAIL D1/A570 FLOOR TRANSITION

XXXX SIGNAGE TAG- SEE SIGNAGE SCHEDULE AND SHEET A800 FOR MORE INFORMATION

STAINLESS STEEL CORNER GUARD TO 4'-0" A.F.F.

## FINISH PLAN LEGEND

NOTE: REFER TO FINISH SCHEDULE IN SPECIFICATIONS, DIVISION 9, FOR INTERIOR FINISH SELECTIONS AND SPECIFICATIONS.

**WALL MATERIALS**

| | |
|---|---|
| W1 | PRIMED & PAINTED WALL SURFACE- GENERAL WHITE |
| W2 | PRIMED & PAINTED WALL SURFACE- ACCENT GRAY |
| W3 | PRIMED & PAINTED WALL SURFACE- ACCENT GREEN |
| W4 | PRIMED & PAINTED WALL SURFACE- ACCENT FULLY PURPLE |
| W5 | PRIMED & PAINTED WALL SURFACE- ACCENT CHARCOAL |
| W6 | NOT USED |
| W7 | WALL TILE - MOSA TILES GLOBAL COLLECTION 16650 GRAY |
| W8 | WALL TILE - MOSA TILES GLOBAL COLLECTION 16860 BEIGE |
| W9 | WALL TILE - MOSA TILES GLOBAL COLLECTION 20930 PURPLE |
| WE | EXISTING WALL FINISH |

**FLOOR MATERIALS**

| | |
|---|---|
| F1 | GENERAL CARPET - PATCRAFT 10294 IDEA, COLOR: 00590 MINDSET |
| F2 | ACCENT CARPET - PATCRAFT 10294 IDEA, COLOR 00100 INSIGHT |
| F3 | VINYL TILE FLOORING - ARMSTRONG STRATIONS BST, T.3608 WARM GRAY |
| F4 | MOSAIC FLOOR TILE - DALTILE KEYSTONES BLOCK RANDOM, DESERT GRAY SPECKLE |
| F5 | |
| F6 | RUBBER FLOORING - MONDO SPORT IMPACT 011 MEDIUM GREY |
| F7 | RUBBER FLOORING - MONDO SPORT IMPACT 018 DARK GREY |
| F8 | RUBBER FLOORING - MONDO SPORT IMPACT 026 PURPLE |
| F9 | RUNNING TRACK - MONDO |
| F10 | ATHLETIC WOODFLOOR |
| F11 | PORCELAIN TILE - 12X24 Q-STONE |
| F12 | ENTRANCE / WALK OFF MATTING CARPET SYSTEM |
| F13 | TRAFFIC COATING |
| F14 | SEALED CONCRETE |
| F15 | VCT |
| FE | EXISTING FLOOR MATERIAL |

**WOOD**

| | |
|---|---|
| WD1 | WOOD DOORS - VT INDUSTRIES WHITE MAPLE VENEER, CLEAR FINISH CL07 |
| WD2 | STAINED AND FINISHED MDF PANEL- LIGHT |
| WD3 | STAINED AND FINISHED MDF PANEL MDF - DARK |

**BASE MATERIALS**

| | |
|---|---|
| B1 | 4" RUBBER BASE - JOHNSONITE; 20 CHARCOAL |
| B2 | VENTED BASE - SEE DETAIL A4/A590 |
| B3 | CERAMIC TILE BASE |
| B4 | NO BASE - CAULK BETWEEN FLOOR & WALL |
| B5 | WRAP TRAFFIC COATING UP WALL 4" |
| BE | EXISTING BASE |

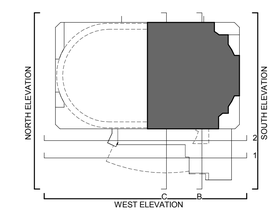
**SURFACE MATERIALS**

| | |
|---|---|
| PL1 | PLASTIC LAMINATE - WILSONART 7949K-18 ASIAN NIGHT (DARK GRAY) |
| PL2 | PLASTIC LAMINATE - WILSONART 4878-38 PEWTER MESH (LIGHT GRAY) |
| PL3 | PLASTIC LAMINATE - NEVAMAR VOUS TEMPEST VS6002T (MEDIUM GRAY) |
| PL4 | PLASTIC LAMINATE - NEVAMAR EXTREME GREEN BAMBOO TEXTURED WX5001T (GREEN) |
| SS1 | SOLID SURFACE - CAMBRIA WAVERTON 0250 (WHITE) |
| SS2 | SOLID SURFACE - CAMBRIA WAVERTON 0250 (WHITE) |
| PLE | EXISTING PLASTIC LAMINATE |
| SSE | EXISTING SOLID SURFACE |

## GENERAL FINISH NOTES

1. ALL FLOOR TRANSITIONS LOCATED AT CENTER OF DOOR.
2. SEE ELEVATION SHEETS FOR ALL WALL TILE PATTERNS.
3. FIELD VERIFY ALL DIMENSIONS BEFORE FABRICATION OF MILLWORK.
4. COORDINATE ALL MILLWORK WITH APPLIANCES BEFORE FABRICATION.
5. ALL WINDOW SILLS TO BE SOLID SURFACE U.N.O.
6. ALL WOOD TRIM TO BE STAINED TO MATCH DOOR STAIN.
7. ALL COUNTERTOPS TO BE PLASTIC LAMINATE, U.N.O.
8. FLOOR TILE PATTERNS TO BE INSTALLED AS INDICATED ON FINISH AND SIGNAGE PLAN.
9. TYPICAL TILE DIRECTION PATTERNS TO BE MAINTAINED AND CONSISTENT THROUGHOUT INDICATED SPACE.

## KEY PLAN




VCBO
ARCHITECTURE
VALENTINER
CRANE
BRUNJES
ONYON

REGISTERED ARCHITECT
STATE OF UTAH
No. 13392
BRENT R. TIPPETS
10-2-12

VCBO ARCHITECTURE
524 SOUTH 600 EAST
SALT LAKE CITY, UT 84102
Phone: (801) 575-8800
Fax: (801) 531-9850
WWW: www.vcbo.com

**DFCM CODE COMPLIANCE STAMP**

# Student Activity Center
## Stromberg Addition - BID SET
Weber State University
3750 Harrison Blvd. Ogden, UT 84408

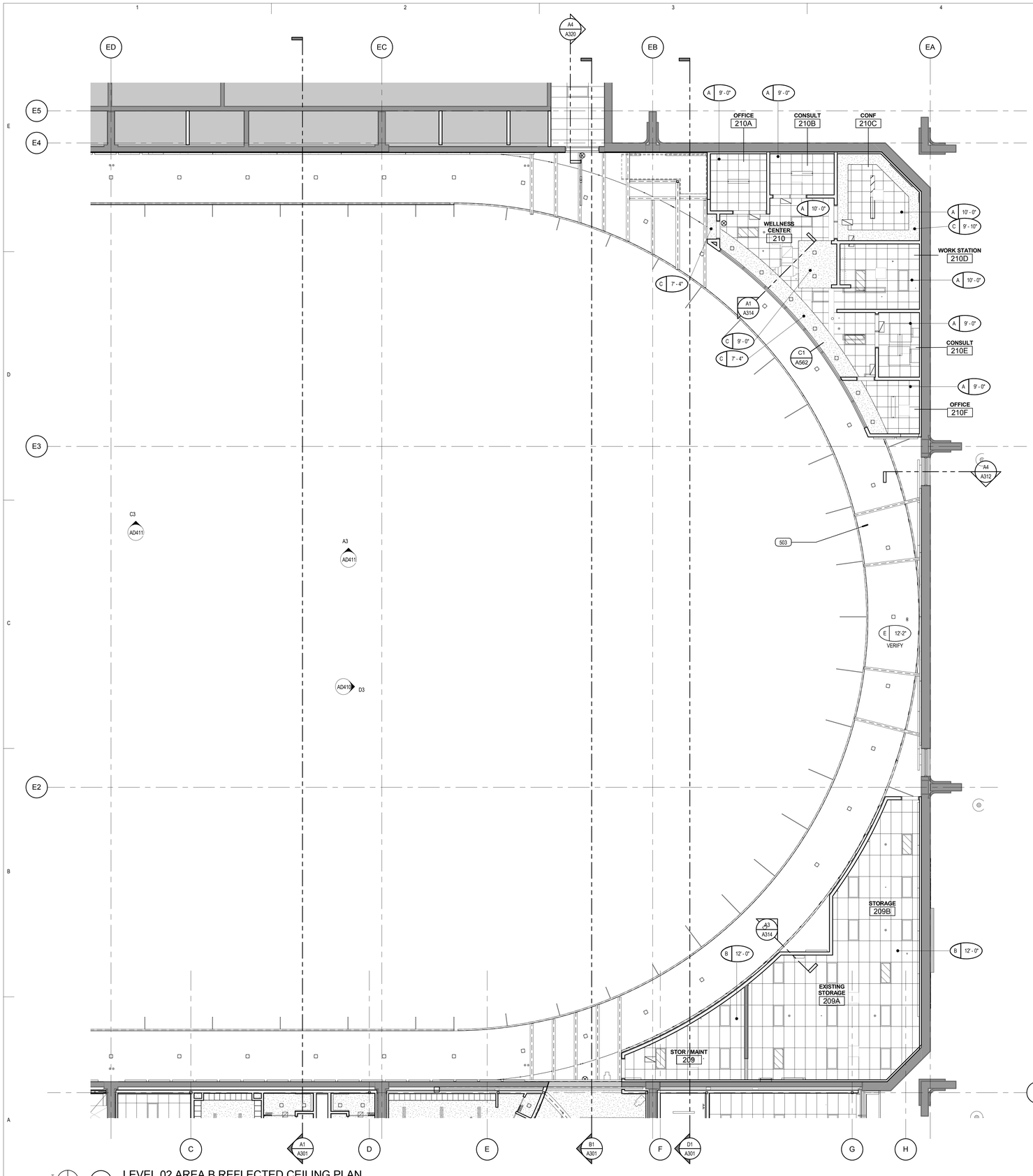
| Rev # | Date | Description |
|---|---|---|

Job # 12475
CAD File
Drawn Author Checked Checker
Date 10.03.2012
Owner # DFCM #12031810

LEVEL 02 AREA B - FINISH PLAN

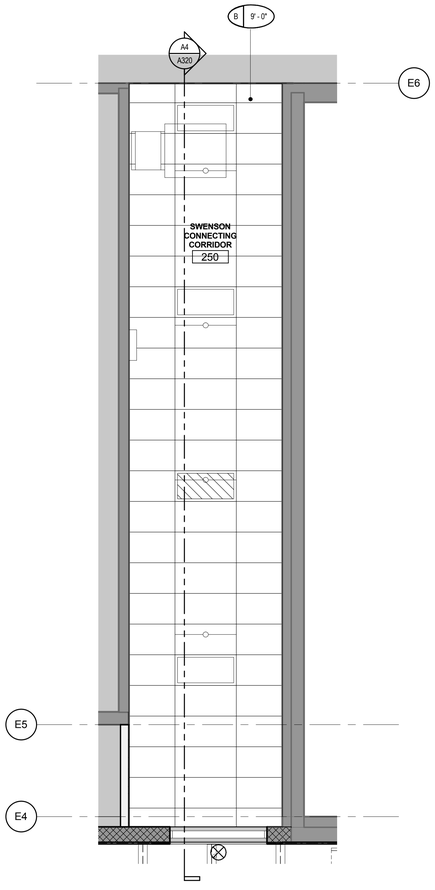
A122.3

10/3/2012 3:11:16 PM




## KEYED NOTES

503 STEEL DECK PAINTED WHERE EXPOSED




## CEILING LEGEND

| | | |
|---|---|---|
| A- | SUSPENDED 2' X 2' ACOUSTICAL LAY-IN TILE CEILING |
| B- | SUSPENDED 2' X 4' ACOUSTICAL LAY-IN TILE CEILING |
| C- | SUSPENDED 5/8" GYP. BD. CEILING SYSTEM - (1 LAYER) PAINTED. APPLY EPOXY PAINT IN WET AREAS. |
| D- | SUSPENDED 2' X 2' METAL SCULPTURAL LAY-IN TILE CEILING. |
| E- | OPEN TO STRUCTURE ABOVE, PAINTED. |
| F- | METAL SOFFIT SYSTEM |
| G- | 2 HOUR FIRE-RATED CEILING ASSEMBLY. (2) LAYERS TYPE-X GYP. BOARD. |
| J- | COMPOSITE METAL PANEL |
| X- | EXISTING CEILING SYSTEM, TO REMAIN |

## CEILING SYMBOLS

**ELECTRICAL**

- 2'X4' FLUORESCENT FIXTURE
- 2'X2' FLUORESCENT FIXTURE
- 1'X4' FLUORESCENT FIXTURE
- FLUORESCENT STRIP FIXTURE
- RECESSED DOWN LIGHT
- WALL WASH
- 1'X4' FLUORESCENT FIXTURE
- EXIT SIGN, SINGLE-SIDED
- EXIT SIGN, DOUBLE-SIDED
- F FIRE ALARM
- S SPEAKER
- P SMOKE DETECTOR
- W WIRELESS INTERNET

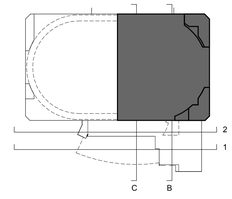
**MECHANICAL**

- SUPPLY GRILLE
- RETURN GRILLE
- EXHAUST GRILLE
- LINEAR DIFFUSER
- SPRINKLER HEAD - CEILING MOUNT
- SPRINKLER HEAD - WALL MOUNT

## GENERAL CEILING NOTES

1. REFER TO DETAIL C6/A530 FOR TYPICAL CEILING SUSPENSION & SEISMIC BRACING
2. REFER TO DETAIL A6/A530 FOR TYPICAL SUSPENDED GYP. BOARD CEILINGS
3. ALL UNIDENTIFIED CEILING TYPES ON THE PLANS SHALL BE TYPE " A" AT 9'-4" A.F.F.
4. GRID SUSPENSION SYSTEMS SHALL BE CENTERED WITHIN AREAS INDICATED, UNLESS NOTED OTHERWISE
5. PAINT ALL EXPOSED STRUCTURE, MECHANICAL, DUCTS, ELECTRICAL WORK, PIPING, ETC. ALL VISIBLE ELEMENTS TO BE PAINTED AT TYPE "E" & TYPE "A" (ABOVE CEILING CLOUDS WHERE VISABLE)
6. REFER TO ARCHITECTURAL DRAWINGS FOR LOCATION OF MECHANICAL GRILLES, AND TO MECHANICAL DRAWINGS FOR QUANTITIES AND TYPES
7. REFER TO ARCHITECTURAL DRAWINGS FOR LOCATIONS OF LIGHT FIXTURES AND TO ELECTRICAL DRAWINGS FOR QUANTITY AND TYPES
8. MECHANICAL AND ELECTRICAL CONTRACTORS TO COORDINATE WORK WITH SPRINKLER CONTRACTOR TO AVOID CONFLICTS IN FIELD
9. ALL CEILING HEIGHTS ARE ELEVATION ABOVE TOP OF CONCRETE FLOOR SLAB
10. ALL TYPE C CEILINGS IN RESTROOMS, LOCKER ROOMS, SHOWERS, AND WET AREAS TO BE EPOXY PAINTED

## KEY PLAN




A1 LEVEL 02 AREA B REFLECTED CEILING PLAN

SCALE: 1/8" = 1'-0"

0' 4' 8' 16' 24'

A5 SWENSON CORRIDOR CEILING PLAN

SCALE: 1/4" = 1'-0"

0' 2' 4' 8' 16'

VCBO
ARCHITECTURE
VALENTINER
CRANE
BRUNJES
ONYON

VCBO ARCHITECTURE
524 SOUTH 600 EAST
SALT LAKE CITY, UT 84102
Phone: (801) 575-8800
Fax: (801) 531-9850
WWW: www.vcbo.com

LICENSED ARCHITECT
No. 13392
BRENT R. TIPPETS
10-2-12
STATE OF UTAH

DFCM CODE COMPLIANCE STAMP

# Student Activity Center
## Stromberg Addition - BID SET
Weber State University
3750 Harrison Blvd. Ogden, UT 84408

| Rev # | Date | Description |
|---|---|---|

Job # 12475
CAD File
Drawn Author Checked Checker
Date 10.03.2012
Owner # DFCM #12031810

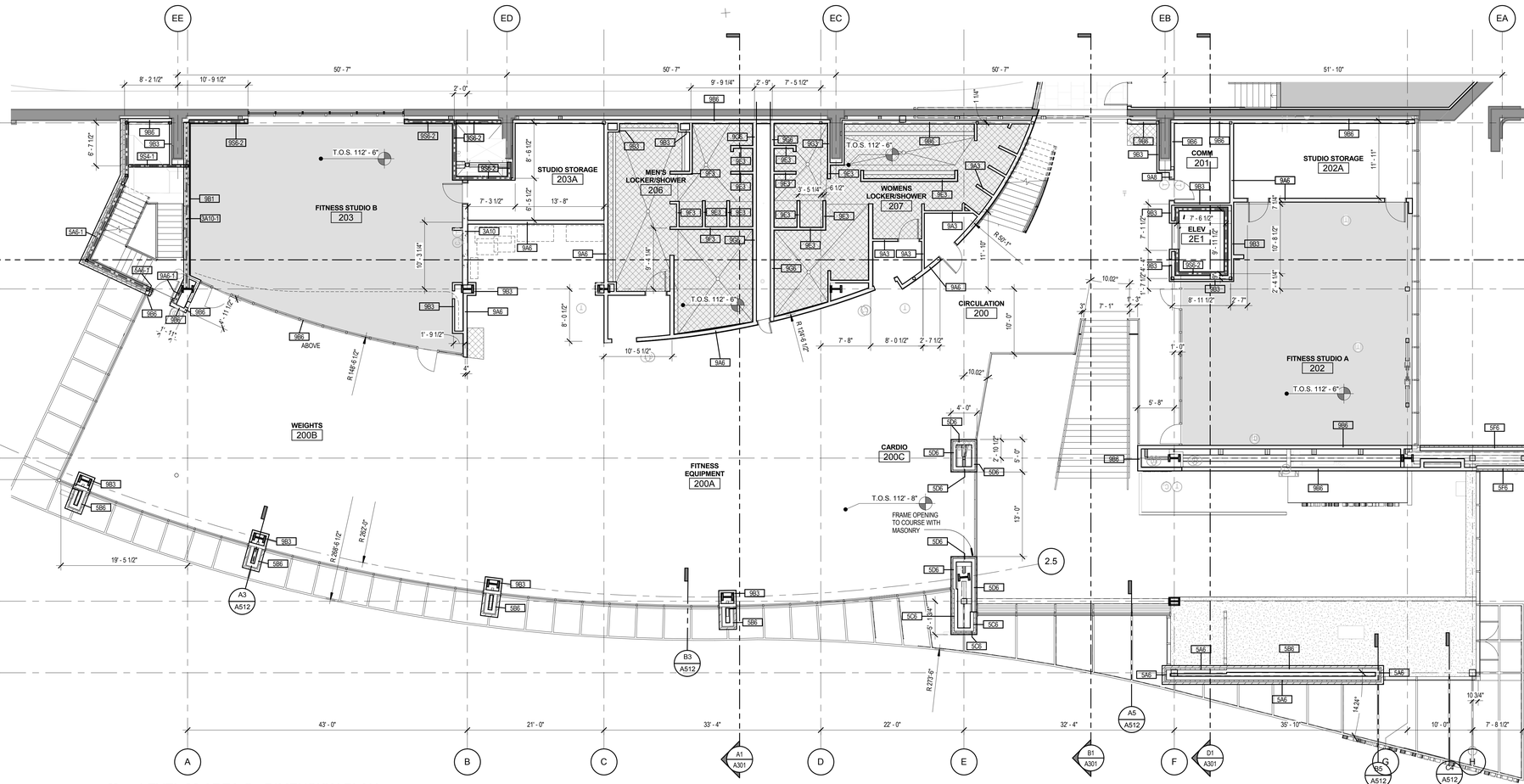
LEVEL 02 AREA B - REFLECTED CEILING PLAN

A122.4

FITNESS STUDIO B

10/3/2012 3:11:23 PM

## KEYED NOTES




A1 LEVEL 02 AREA C - DIMENSION PLAN

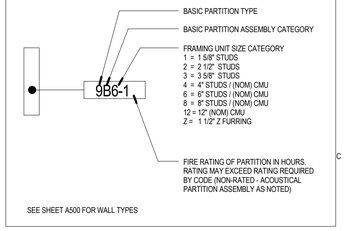
SCALE: 1/8" = 1'-0"

0' 4' 8' 16' 24'

## PARTITION TYPE SYMBOL DEFINITION

**SYMBOL DEFINITION**

BASIC PARTITION TYPE AND ADDITIONAL PARTITION COMPONENTS, IF ANY, ARE INDICATED IN THE FLOOR PLANS BY THE FOLLOWING SYMBOL




SEE SHEET A500 FOR WALL TYPES

## DIMENSION PLAN NOTES

1) ALL DIMENSIONS ARE TO CENTER OF STUD WALL OR FACE OF CONCRETE, MASONRY OR ROUGH OPENING UNLESS NOTED OTHERWISE. WHERE THE END OF A WALL IS INDICATED THE DIMENSION IS TO THE FINISH SURFACE OF THE WALL END.

2) DIMENSIONS ARE TO FACE-OF-FINISH WHEN MARKED CLR (CLEAR DIMENSION)

3) WHERE A.D.A. 5'-0" ACCESIBILITY DIMENSION IS REQUIRED, IT IS FACE-OF-FINISH CLEAR DIMENSION.

4) U.N.O., WHERE WALLS ARE SHOWN OVER GRIDLINES, CENTER STUD TRACK ON GRIDLINE.

5) WHERE POSSIBLE AND U.N.O, DOOR LOCATIONS ON OPPOSITE SIDES OF HALLWAYS AND COMMON SPACES ARE TO ALIGN DIMENSIONALLY.

6) U.N.O. ALIGN FACE OF FINISH WHERE VARYING WALL TYPES ARE SHOWN ADJACENT TO EACH OTHER IN A ROW.

7) WHERE KEYED ON FLOOR PLANS, REFER TO ENLARGED FLOOR PLAN DRAWINGS AND DETAIL DRAWINGS FOR DIMENSIONS.

8) UNLESS DIMENSIONED OTHERWISE, THE DIMENSION FROM THE BUCK OF A DOOR FRAME IS TO BE 4" TO THE WALL CORNER.

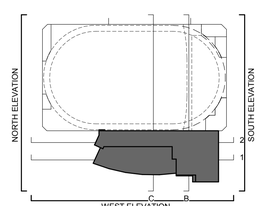
9) PROVIDE GLASS MAT GYPSUM BOARD AT ALL TILE AREAS.

10) EXCEPT WHERE DIRECTED TO PLACE ITEMS OF WORK AT THE APPROXIMATE LOCATION SHOWN, DO NOT SCALE DRAWINGS FOR DIMENSIONAL INFORMATION. ALL ELEMENTS OF THE DRAWINGS MAY NOT BE DRAWN TO EXACT SCALE. ALL DIMENSIONS REQUIRED ARE SHOWN OR MAY BE DERIVED FROM THOSE SHOWN ON THE FLOOR PLANS, DETAIL PLANS, ELEVATIONS, SECTIONS, DETAILS, SCHEDULES AND SPECIFICATIONS. IF DIMENSIONS ARE NOT PRESENT, THE ARCHITECT IS TO BE NOTIFIED SO THAT A CLARIFICATION CAN BE ISSUED

## DIMENSION PLAN SYMBOLS

HATCH INDICATES RECESSED SLAB, TOP OF SLAB TO BE 112'-6". FIRE SPRAY DECK BELOW TO MAINTAIN 2 HR FLOOR CONSTRUCTION

## KEY PLAN





VCBO

ARCHITECTURE
VALENTINER
CRANE
BRUNJES
ONYON

LICENSED ARCHITECT
No. 13392
BRENT R. TIPPETS
10-2-12
STATE OF UTAH

VCBO ARCHITECTURE
524 SOUTH 600 EAST
SALT LAKE CITY, UT 84102
Phone: (801) 575-8800
Fax: (801) 531-9850
WWW: www.vcbo.com


DFCM CODE COMPLIANCE STAMP

# Student Activity Center
## Stromberg Addition - BID SET
Weber State University
3750 Harrison Blvd. Ogden, UT 84408

| Rev # | Date | Description |
|---|---|---|

Job # 12475
CAD File
Drawn Author Checked Checker
Date 10.03.2012
Owner # DFCM #12031810

LEVEL 02 AREA C - DIMENSION PLAN

A123.1

10/3/2012 3:11:33 PM

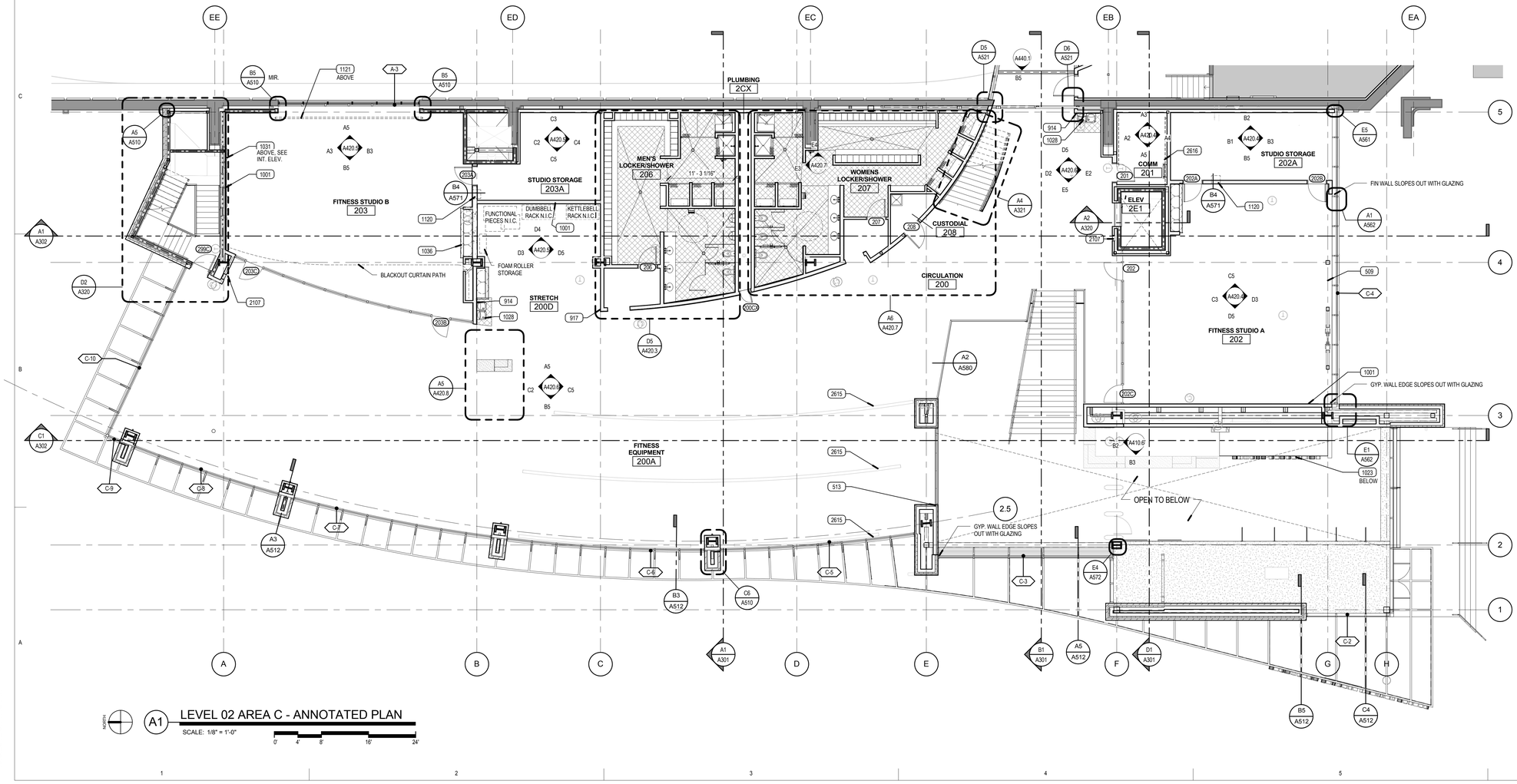
## ANNOTATED FLOOR PLAN NOTES

| SYMBOLOGY | |
|---|---|
| 003F | DOOR NUMBER (SEE SHEET A600.0 FOR DOOR SCHEDULE) |
| C12 | WINDOW NUMBER (SEE SHEETS A610.0, A611.0, A620.0 FOR WINDOW TYPES) |
| | EXISTING AREA/ ITEM TO REMAIN |

1. WHERE FLOOR DRAINS ARE INSTALLED, THE FLOOR IS TO SLOPE TO THE DRAIN. THE MAXIMUM SLOPE IS NOT OT EXCEED 2% WHILE THE MINIMUM SLOPE IS NOT TO BE LESS THAN 1%.
2. WHERE CONCRETE PADS ARE CALLED TO BE CONSTRUCTED UNDER EQUIPMENT, THE SLAB IS TO BE 8" THICK, U.N.O., AND IS TO HAVE #4 BARS AT 18" O.C. EACH WAY. COORDINATE DIMENSIONS OF PAD WITH ACTUAL EQUIPMENT SPEC.
3. SEE TYPICAL FLOORING TRANSITION DETAILS SHEET A590.
4. THE CONTRACTOR IS TO ENSURE THAT BETWEEN ANY FINISH FLOOR ELEVAITON TO 34" A.F.F. ALL GUARDRAILS ARE TO BE CONSTRUCTED AND INSTALLED SO THAT A 4" SPHERE WILL NOT PASS BETWEEN ANY TOW ADJACENT GUARDRAIL COMPONENTS OR BETWEEN THE EDGE OF A GUARDRAIL AND ALL ADJACENT BUILDING ELEMENTS SUCH AS A WALL OR FLOOR. AND 8" DIAMETER SHPERE IS NOT TO PASS BETWEEN THE ABOVE MENTIONED COMPONENTS AND ELEMENTS FROM AN ELEVATION 34" A.F.F. AND HIGHER.
5. SEE TYPICAL FIRE EXTINGUISER CABINET INSTALLATION DETAILS.

## KEYED NOTES

| | |
|---|---|
| 509 | CROSS BRACING PAINTED WHERE EXPOSED |
| 513 | DECORATIVE RAILING WITH 1/2" GLAZING |
| 914 | CERAMIC WALL TILE |
| 917 | TACKABLE WALL SYSTEM |
| 1001 | MIRROR |
| 1023 | SIGNAGE, SEE SCHEDULE |
| 1028 | DRINKING FOUNTAIN WITH BOTTLE FILLER |
| 1031 | LCD SCREEN NIC |
| 1036 | BALL STORAGE |
| 1120 | AV CABINET |
| 1121 | MOTORIZED ROLL UP PROJECTION SCREEN |
| 2107 | FIRE EXTINGUISHER CABINET |
| 2615 | POWER OUTLET FLOOR STRIP, SEE DETAIL E6/A590 |
| 2616 | TELEPHONE TERMINAL BD. |



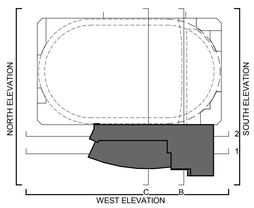

A1 LEVEL 02 AREA C - ANNOTATED PLAN

SCALE: 1/8" = 1'-0"

0' 4' 8' 16' 24'

NORTH

## KEY PLAN





VCBO
ARCHITECTURE
VALENTINER
CRANE
BRUNJES
ONYON

REGISTERED ARCHITECT
STATE OF UTAH
No. 13392
BRENT R. TIPPETS
10-2-12

VCBO ARCHITECTURE
524 SOUTH 600 EAST
SALT LAKE CITY, UT 84102
Phone: (801) 575-8800
Fax: (801) 531-9850
WWW: www.vcbo.com


DFCM CODE COMPLIANCE STAMP

# Student Activity Center
## Stromberg Addition - BID SET
Weber State University
3750 Harrison Blvd. Ogden, UT 84408

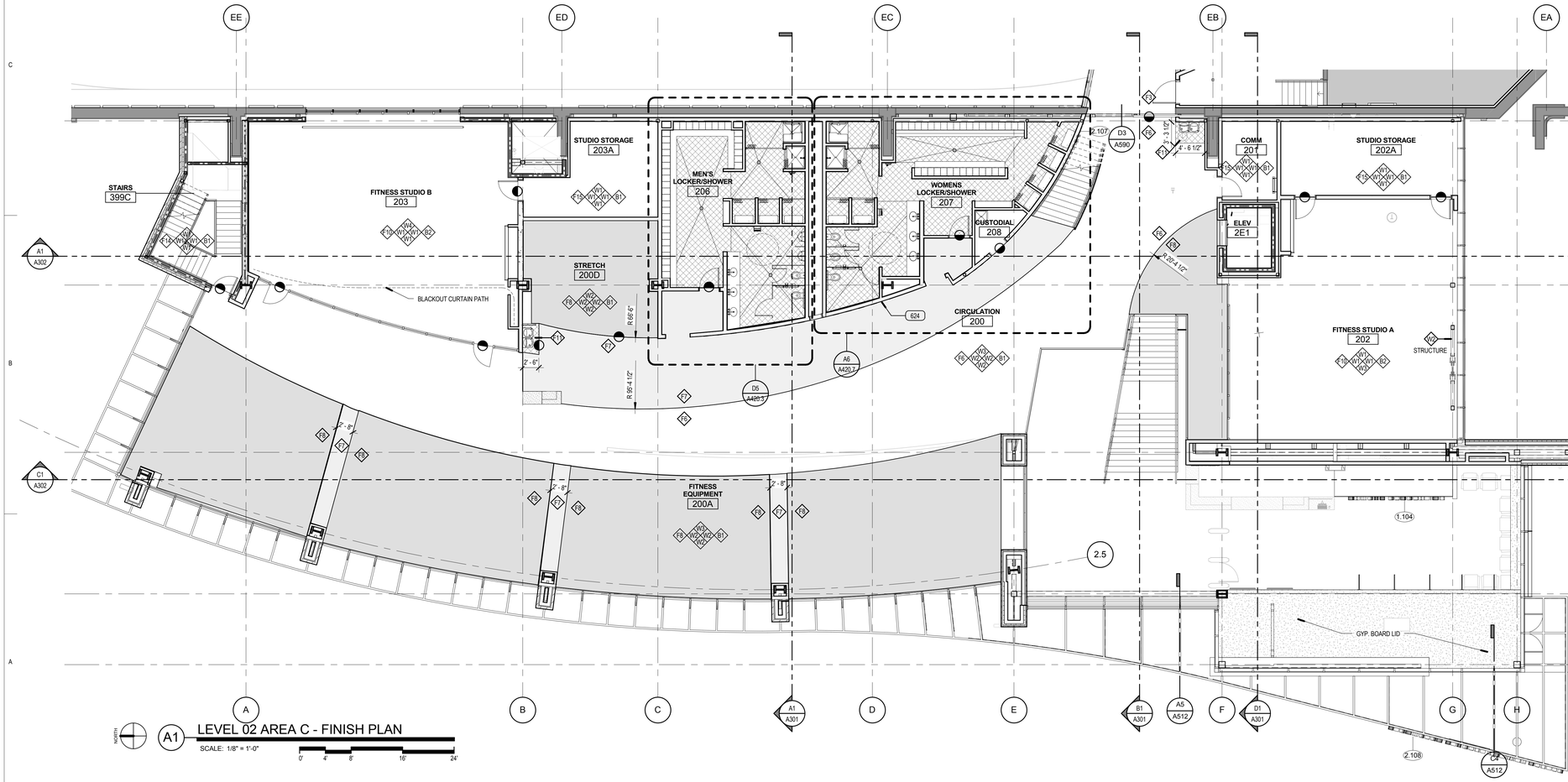
| Rev # | Date | Description |
|---|---|---|

Job # 12475
CAD File
Drawn Author Checked Checker
Date 10.03.2012
Owner # DFCM #12031810

LEVEL 02 AREA C- ANNOTATED PLAN

A123.2

10/3/2012 3:11:43 PM



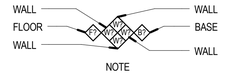

A1 LEVEL 02 AREA C - FINISH PLAN

SCALE: 1/8" = 1'-0"

0' 4' 8' 16' 24'

10/3/2012 3:11:52 PM

## FINISH PLAN SYMBOLS




NOTE

SINGLE FINISH SYMBOLS INDICATE WHERE FINISHES ARE DIFFERENT FROM GENERAL ROOM FINISHES, OR PROVIDE ADDITIONAL FINISH INFORMATION

CHANGE AT FLOOR MATERIAL SEE DETAIL D1/A570 FLOOR TRANSITION

XXXX SIGNAGE TAG- SEE SIGNAGE SCHEDULE AND SHEET A800 FOR MORE INFORMATION

STAINLESS STEEL CORNER GUARD TO 4'-0" A.F.F.

## FINISH PLAN LEGEND

NOTE: REFER TO FINISH SCHEDULE IN SPECIFICATIONS, DIVISION 9, FOR INTERIOR FINISH SELECTIONS AND SPECIFICATIONS.

**WALL MATERIALS**

| | |
|---|---|
| W1 | PRIMED & PAINTED WALL SURFACE- GENERAL WHITE |
| W2 | PRIMED & PAINTED WALL SURFACE- ACCENT GRAY |
| W3 | PRIMED & PAINTED WALL SURFACE- ACCENT GREEN |
| W4 | PRIMED & PAINTED WALL SURFACE- ACCENT FULLY PURPLE |
| W5 | PRIMED & PAINTED WALL SURFACE- ACCENT CHARCOAL |
| W6 | NOT USED |
| W7 | WALL TILE - MOSA TILES GLOBAL COLLECTION 16650 GRAY |
| W8 | WALL TILE - MOSA TILES GLOBAL COLLECTION 16860 BEIGE |
| W9 | WALL TILE - MOSA TILES GLOBAL COLLECTION 20930 PURPLE |
| WE | EXISTING WALL FINISH |

**FLOOR MATERIALS**

| | |
|---|---|
| F1 | GENERAL CARPET - PATCRAFT 10294 IDEA, COLOR: 00590 MINDSET |
| F2 | ACCENT CARPET - PATCRAFT 10294 IDEA, COLOR 00100 INSIGHT |
| F3 | VINYL TILE FLOORING - ARMSTRONG STRIATIONS 5BT, T 3608 WARM GRAY |
| F4 | MOSAIC FLOOR TILE - DALTILE KEYSTONES BLOCK RANDOM, DESERT GRAY SPECKLE |
| F5 | |
| F6 | RUBBER FLOORING - MONDO SPORT IMPACT 011 MEDIUM GREY |
| F7 | RUBBER FLOORING - MONDO SPORT IMPACT 018 DARK GREY |
| F8 | RUBBER FLOORING - MONDO SPORT IMPACT 026 PURPLE |
| F9 | RUNNING TRACK - MONDO |
| F10 | ATHLETIC WOODFLOOR |
| F11 | PORCELAIN TILE - 12X24 Q-STONE |
| F12 | ENTRANCE / WALK OFF MATTING CARPET SYSTEM |
| F13 | TRAFFIC COATING |
| F14 | SEALED CONCRETE |
| F15 | VCT |
| FE | EXISTING FLOOR MATERIAL |

**WOOD**

| | |
|---|---|
| WD1 | WOOD DOORS - VT INDUSTRIES WHITE MAPLE VENEER, CLEAR FINISH CL07 |
| WD2 | STAINED AND FINISHED MDF PANEL- LIGHT |
| WD3 | STAINED AND FINISHED MDF PANEL MDF - DARK |

**BASE MATERIALS**

| | |
|---|---|
| B1 | 4" RUBBER BASE - JOHNSONITE; 20 CHARCOAL |
| B2 | VENTED BASE - SEE DETAIL A4/A590 |
| B3 | CERAMIC TILE BASE |
| B4 | NO BASE - CAULK BETWEEN FLOOR & WALL |
| B5 | WRAP TRAFFIC COATING UP WALL 4" |
| BE | EXISTING BASE |

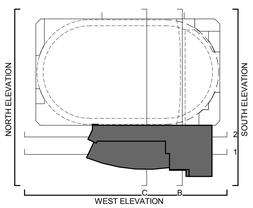
**SURFACE MATERIALS**

| | |
|---|---|
| PL1 | PLASTIC LAMINATE - WILSONART 7949K-18 ASIAN NIGHT (DARK GRAY) |
| PL2 | PLASTIC LAMINATE - WILSONART 4878-38 PEWTER MESH (LIGHT GRAY) |
| PL3 | PLASTIC LAMINATE - NEVAMAR VOUS TEMPEST VS8002T (MEDIUM GRAY) |
| PL4 | PLASTIC LAMINATE - NEVAMAR EXTREME GREEN BAMBOO TEXTURED WX5001T (GREEN) |
| SS1 | SOLID SURFACE - CAMBRIA WAVERTON 0250 (WHITE) |
| SS2 | SOLID SURFACE - CAMBRIA WAVERTON 0250 (WHITE) |
| PLE | EXISTING PLASTIC LAMINATE |
| SSE | EXISTING SOLID SURFACE |

## GENERAL FINISH NOTES

1. ALL FLOOR TRANSITIONS LOCATED AT CENTER OF DOOR.
2. SEE ELEVATION SHEETS FOR ALL WALL TILE PATTERNS.
3. FIELD VERIFY ALL DIMENSIONS BEFORE FABRICATION OF MILLWORK.
4. COORDINATE ALL MILLWORK WITH APPLIANCES BEFORE FABRICATION.
5. ALL WINDOW SILLS TO BE SOLID SURFACE U.N.O.
6. ALL WOOD TRIM TO BE STAINED TO MATCH DOOR STAIN.
7. ALL COUNTERTOPS TO BE PLASTIC LAMINATE, U.N.O.
8. FLOOR TILE PATTERNS TO BE INSTALLED AS INDICATED ON FINISH AND SIGNAGE PLAN.
9. TYPICAL TILE DIRECTION PATTERNS TO BE MAINTAINED AND CONSISTENT THROUGHOUT INDICATED SPACE.

## KEY PLAN




VCBO
ARCHITECTURE
VALENTINER
CRANE
BRUNJES
ONYON

VCBO ARCHITECTURE
524 SOUTH 600 EAST
SALT LAKE CITY, UT 84102
Phone: (801) 575-8800
Fax: (801) 531-9850
WWW: www.vcbo.com

REGISTERED ARCHITECT
No. 13392
BRENT R. TIPPETS
10-2-12
STATE OF UTAH

**DFCM CODE COMPLIANCE STAMP**

# Student Activity Center

Stromberg Addition - BID SET

Weber State University
3750 Harrison Blvd. Ogden, UT 84408

| Rev # | Date | Description |
|---|---|---|

Job # 12475
CAD File
Drawn Author Checked Checker
Date 10.03.2012
Owner # DFCM #12031810

LEVEL 02 AREA C - FINISH PLAN

A123.3

## KEYED NOTES

| | |
|---|---|
| 309 | REINFORCED CONCRETE WALL |
| 1031 | LCD SCREEN NIC |
| 1034 | CEILING MOUNTED FITNESS ANCHOR |
| 1102 | CEILING MOUNTED PROJECTOR AND MOUNT COORDINATE EXACT LOCATION W/ ARCHITECT PRIOR TO INSTALLATION. PROVIDE 10'-0" MIN. OF EXTRA WIRE LENGTH, TYP. TO ACCOMMODATE ADJUSTMENT TO LOCATION PROVIDED |
| 1121 | MOTORIZED ROLL UP PROJECTION SCREEN |
| 1124 | CEILING FAN |

## CEILING LEGEND

| | | |
|---|---|---|
| A- | SUSPENDED 2' X 2' ACOUSTICAL LAY-IN TILE CEILING |
| B- | SUSPENDED 2' X 4' ACOUSTICAL LAY-IN TILE CEILING |
| C- | SUSPENDED 5/8" GYP. BD. CEILING SYSTEM - (1 LAYER) PAINTED. APPLY EPOXY PAINT IN WET AREAS. |
| D- | SUSPENDED 2' X 2' METAL SCULPTURAL LAY-IN TILE CEILING. |
| E- | OPEN TO STRUCTURE ABOVE, PAINTED. |
| F- | METAL SOFFIT SYSTEM |
| G- | 2 HOUR FIRE-RATED CEILING ASSEMBLY. (2) LAYERS TYPE-X GYP. BOARD. |
| J- | COMPOSITE METAL PANEL |
| X- | EXISTING CEILING SYSTEM, TO REMAIN |

## CEILING SYMBOLS

**ELECTRICAL**

- 2'X4' FLUORESCENT FIXTURE
- 2'X2' FLUORESCENT FIXTURE
- 1'X4' FLUORESCENT FIXTURE
- FLUORESCENT STRIP FIXTURE
- RECESSED DOWN LIGHT
- WALL WASH
- 1'X4' FLUORESCENT FIXTURE
- EXIT SIGN, SINGLE-SIDED
- EXIT SIGN, DOUBLE-SIDED
- F — FIRE ALARM
- S — SPEAKER
- P — SMOKE DETECTOR
- W — WIRELESS INTERNET

**MECHANICAL**

- SUPPLY GRILLE
- RETURN GRILLE
- EXHAUST GRILLE
- LINEAR DIFFUSER
- SPRINKLER HEAD - CEILING MOUNT
- SPRINKLER HEAD - WALL MOUNT

## GENERAL CEILING NOTES

1. REFER TO DETAIL C6/A530 FOR TYPICAL CEILING SUSPENSION & SEISMIC BRACING
2. REFER TO DETAIL A6/A530 FOR TYPICAL SUSPENDED GYP. BOARD CEILINGS
3. ALL UNIDENTIFIED CEILING TYPES ON THE PLANS SHALL BE TYPE " A" AT 9'-4" A.F.F.
4. GRID SUSPENSION SYSTEMS SHALL BE CENTERED WITHIN AREAS INDICATED, UNLESS NOTED OTHERWISE
5. PAINT ALL EXPOSED STRUCTURE, MECHANICAL, DUCTS, ELECTRICAL WORK, PIPING, ETC. ALL VISIBLE ELEMENTS TO BE PAINTED AT TYPE "E" & TYPE "A" (ABOVE CEILING CLOUDS WHERE VISABLE)
6. REFER TO ARCHITECTURAL DRAWINGS FOR LOCATION OF MECHANICAL GRILLES, AND TO MECHANICAL DRAWINGS FOR QUANTITIES AND TYPES
7. REFER TO ARCHITECTURAL DRAWINGS FOR LOCATIONS OF LIGHT FIXTURES AND TO ELECTRICAL DRAWINGS FOR QUANTITY AND TYPES
8. MECHANICAL AND ELECTRICAL CONTRACTORS TO COORDINATE WORK WITH SPRINKLER CONTRACTOR TO AVOID CONFLICTS IN FIELD
9. ALL CEILING HEIGHTS ARE ELEVATION ABOVE TOP OF CONCRETE FLOOR SLAB
10. ALL TYPE C CEILINGS IN RESTROOMS, LOCKER ROOMS, SHOWERS, AND WET AREAS TO BE EPOXY PAINTED

## KEY PLAN




## A1 LEVEL 02 AREA C - REFLECTED CEILING PLAN

SCALE: 1/8" = 1'-0"

0' 4' 8' 16' 24'


VCBO ARCHITECTURE
524 SOUTH 600 EAST
SALT LAKE CITY, UT 84102
Phone: (801) 575-8800
Fax: (801) 531-9850
WWW: www.vcbo.com


DFCM CODE COMPLIANCE STAMP

# Student Activity Center
## Stromberg Addition - BID SET
Weber State University
3750 Harrison Blvd. Ogden, UT 84408

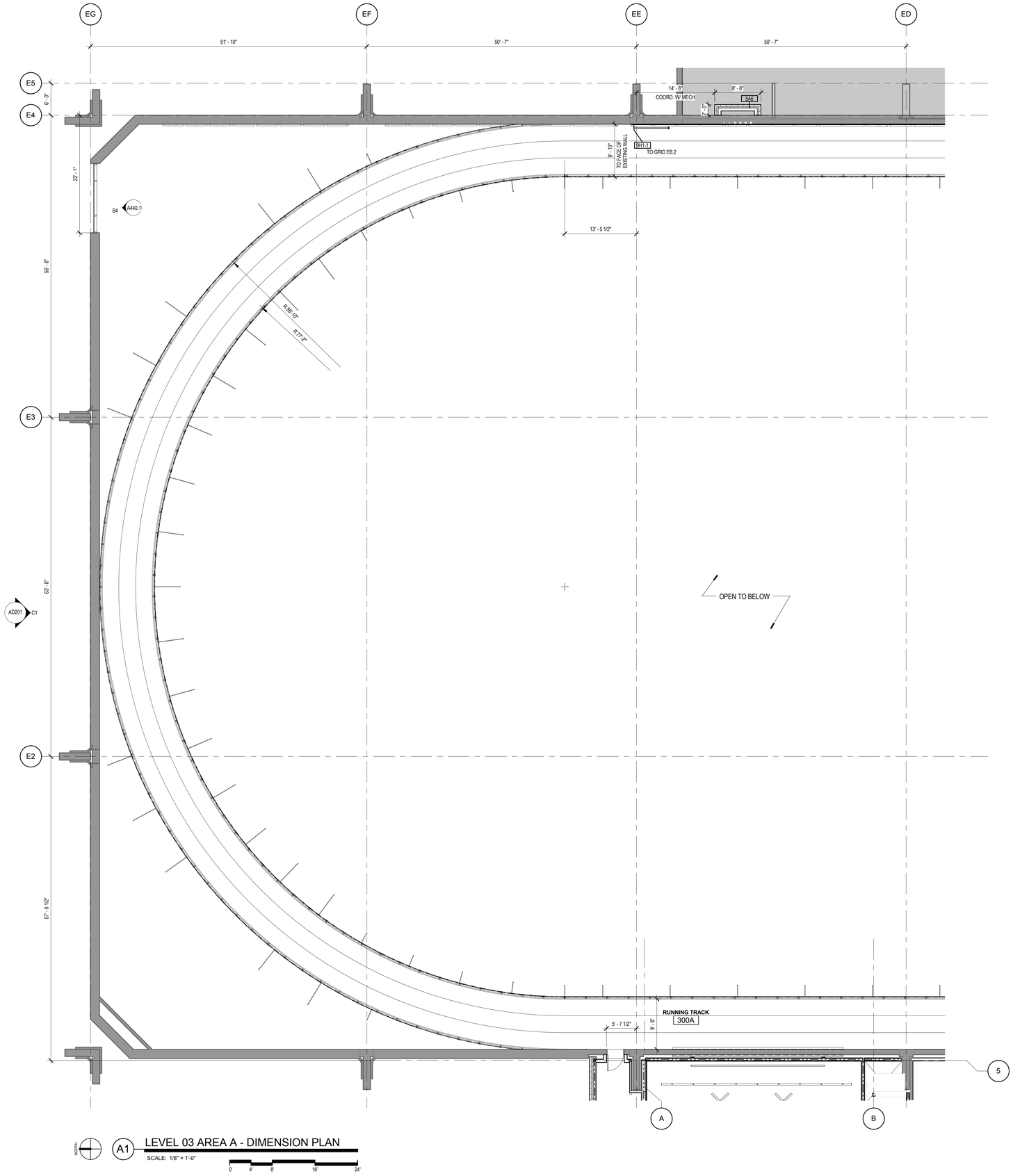
| Rev # | Date | Description |
|---|---|---|

Job # 12475
CAD File
Drawn Author Checked Checker
Date 10.03.2012
Owner # DFCM #12031810

LEVEL 02 AREA C -REFLECTED CEILING PLAN

A123.4

10/3/2012 3:12:04 PM




NORTH

A1 LEVEL 03 AREA A - DIMENSION PLAN

SCALE: 1/8" = 1'-0"

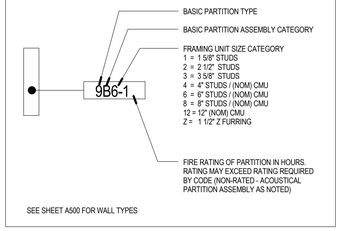
0' 4' 8' 16' 24'

## KEYED NOTES

## PARTITION TYPE SYMBOL DEFINITION

**SYMBOL DEFINITION**

BASIC PARTITION TYPE AND ADDITIONAL PARTITION COMPONENTS, IF ANY, ARE INDICATED IN THE FLOOR PLANS BY THE FOLLOWING SYMBOL




SEE SHEET A500 FOR WALL TYPES

## DIMENSION PLAN NOTES

1) ALL DIMENSIONS ARE TO CENTER OF STUD WALL OR FACE OF CONCRETE, MASONRY OR ROUGH OPENING UNLESS NOTED OTHERWISE. WHERE THE END OF A WALL IS INDICATED THE DIMENSION IS TO THE FINISH SURFACE OF THE WALL END.

2) DIMENSIONS ARE TO FACE-OF-FINISH WHEN MARKED CLR (CLEAR DIMENSION)

3) WHERE A.D.A. 5'-0" ACCESIBILITY DIMENSION IS REQUIRED, IT IS FACE-OF-FINISH CLEAR DIMENSION.

4) U.N.O., WHERE WALLS ARE SHOWN OVER GRIDLINES, CENTER STUD TRACK ON GRIDLINE.

5) WHERE POSSIBLE AND U.N.O, DOOR LOCATIONS ON OPPOSITE SIDES OF HALLWAYS AND COMMON SPACES ARE TO ALIGN DIMENSIONALLY.

6) U.N.O. ALIGN FACE OF FINISH WHERE VARYING WALL TYPES ARE SHOWN ADJACENT TO EACH OTHER IN A ROW.

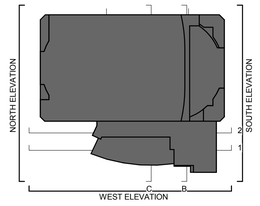
7) WHERE KEYED ON FLOOR PLANS, REFER TO ENLARGED FLOOR PLAN DRAWINGS AND DETAIL DRAWINGS FOR DIMENSIONS.

8) UNLESS DIMENSIONED OTHERWISE, THE DIMENSION FROM THE BUCK OF A DOOR FRAME IS TO BE 4" TO THE WALL CORNER.

9) PROVIDE GLASS MAT GYPSUM BOARD AT ALL TILE AREAS.

10) EXCEPT WHERE DIRECTED TO PLACE ITEMS OF WORK AT THE APPROXIMATE LOCATION SHOWN, DO NOT SCALE DRAWINGS FOR DIMENSIONAL INFORMATION. ALL ELEMENTS OF THE DRAWINGS MAY NOT BE DRAWN TO EXACT SCALE. ALL DIMENSIONS REQUIRED ARE SHOWN OR MAY BE DERIVED FROM THOSE SHOWN ON THE FLOOR PLANS, DETAIL PLANS, ELEVATIONS, SECTIONS, DETAILS, SCHEDULES AND SPECIFICATIONS. IF DIMENSIONS ARE NOT PRESENT, THE ARCHITECT IS TO BE NOTIFIED SO THAT A CLARIFICATION CAN BE ISSUED

## KEY PLAN




VCBO
ARCHITECTURE
VALENTINER
CRANE
BRUNJES
ONYON

REGISTERED ARCHITECT
No. 13392
BRENT R. TIPPETS
10-2-12
STATE OF UTAH

VCBO ARCHITECTURE
524 SOUTH 600 EAST
SALT LAKE CITY, UT 84102
Phone: (801) 575-8800
Fax: (801) 531-9850
WWW: www.vcbo.com

**DFCM CODE COMPLIANCE STAMP**

# Student Activity Center
## Stromberg Addition - BID SET
Weber State University
3750 Harrison Blvd. Ogden, UT 84408

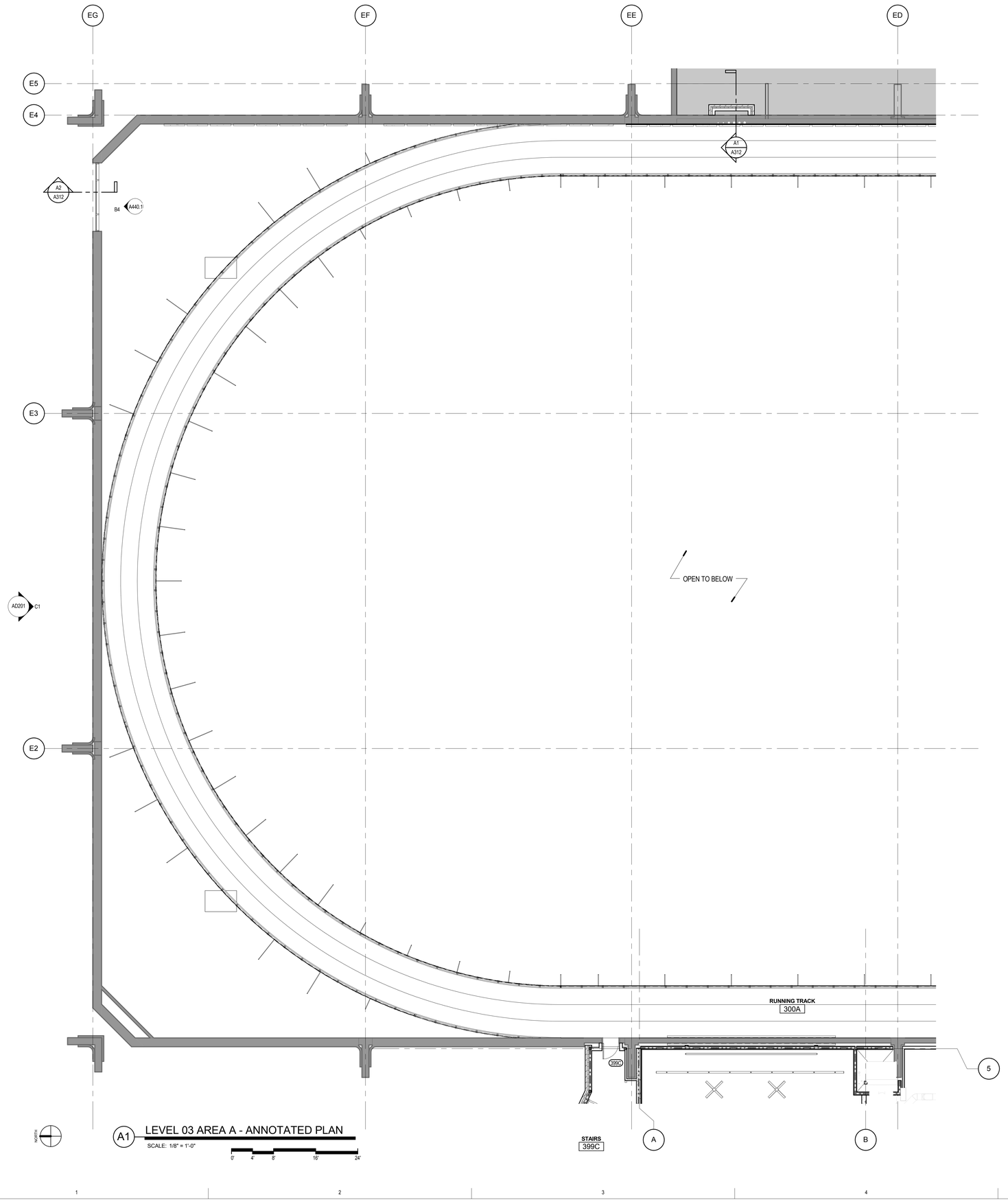
| Rev # | Date | Description |
|---|---|---|

Job # 12475
CAD File
Drawn Author Checked Checker
Date 10.03.2012
Owner # DFCM #12031810

LEVEL 03 AREA A - DIMENSION PLAN

A131.1

10/3/2012 3:12:17 PM




A1 LEVEL 03 AREA A - ANNOTATED PLAN

SCALE: 1/8" = 1'-0"

0' 4' 8' 16' 24'

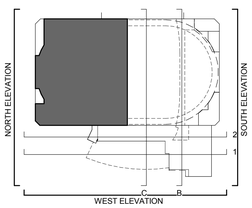
## ANNOTATED FLOOR PLAN NOTES

| SYMBOLOGY | |
|---|---|
| B003P | DOOR NUMBER (SEE SHEET A600.0 FOR DOOR SCHEDULE) |
| C12 | WINDOW NUMBER (SEE SHEETS A610.0, A611.0, A620.0 FOR WINDOW TYPES) |
| | EXISTING AREA/ ITEM TO REMAIN |

1. WHERE FLOOR DRAINS ARE INSTALLED, THE FLOOR IS TO SLOPE TO THE DRAIN. THE MAXIMUM SLOPE IS NOT OT EXCEED 2% WHILE THE MINIMUM SLOPE IS NOT TO BE LESS THAN 1%.
2. WHERE CONCRETE PADS ARE CALLED TO BE CONSTRUCTED UNDER EQUIPMENT, THE SLAB IS TO BE 8" THICK, U.N.O., AND IS TO HAVE #4 BARS AT 18" O.C. EACH WAY. COORDINATE DIMENSIONS OF PAD WITH ACTUAL EQUIPMENT SPEC.
3. SEE TYPICAL FLOORING TRANSITION DETAILS SHEET A590.
4. THE CONTRACTOR IS TO ENSURE THAT BETWEEN ANY FINISH FLOOR ELEVAITON TO 34" A.F.F. ALL GUARDRAILS ARE TO BE CONSTRUCTED AND INSTALLED SO THAT A 4" SPHERE WILL NOT PASS BETWEEN ANY TOW ADJACENT GUARDRAIL COMPONENTS OR BETWEEN THE EDGE OF A GUARDRAIL AND ALL ADJACENT BUILDING ELEMENTS SUCH AS A WALL OR FLOOR. AND 8" DIAMETER SHPERE IS NOT TO PASS BETWEEN THE ABOVE MENTIONED COMPONENTS AND ELEMENTS FROM AN ELEVATION 34" A.F.F. AND HIGHER.
5. SEE TYPICAL FIRE EXTINGUISER CABINET INSTALLATION DETAILS.

## KEYED NOTES

## KEY PLAN




VCBO
ARCHITECTURE
VALENTINER
CRANE
BRUNJES
ONYON

VCBO ARCHITECTURE
524 SOUTH 600 EAST
SALT LAKE CITY, UT 84102
Phone: (801) 575-8800
Fax: (801) 531-9850
WWW: www.vcbo.com

LICENSED ARCHITECT
No. 13392
BRENT R. TIPPETS
10-2-12
STATE OF UTAH

DFCM CODE COMPLIANCE STAMP

# Student Activity Center
## Stromberg Addition - BID SET
Weber State University
3750 Harrison Blvd. Ogden, UT 84408

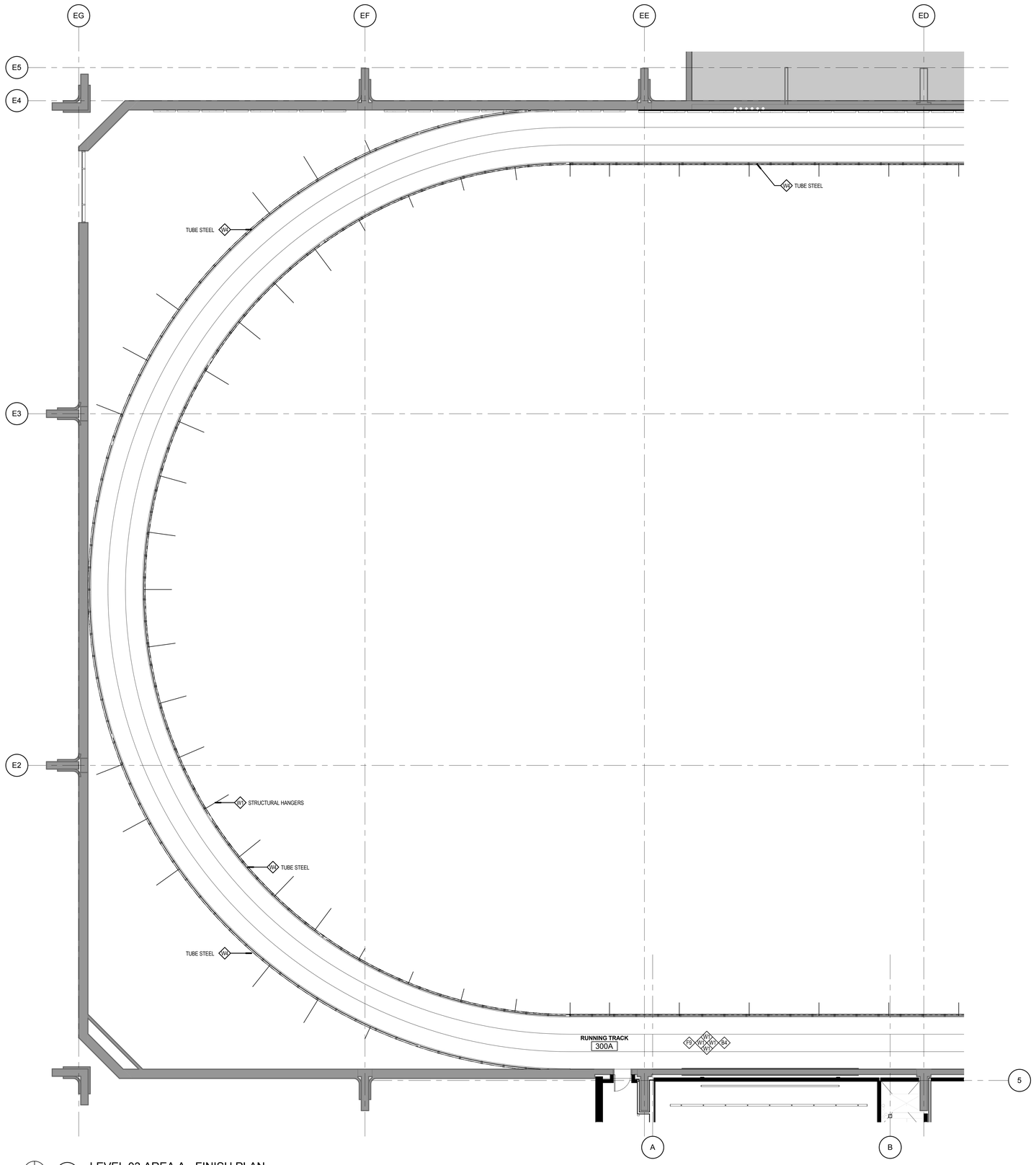
| Rev # | Date | Description |
|---|---|---|

Job # 12475
CAD File
Drawn Author Checked Checker
Date 10.03.2012
Owner # DFCM #12031810

LEVEL 03 AREA A - ANNOTATED PLAN

A131.2

10/3/2012 3:12:29 PM




A1 LEVEL 03 AREA A - FINISH PLAN

SCALE: 1/8" = 1'-0"

0' 4' 8' 16' 24'

NORTH

## FINISH PLAN SYMBOLS

SINGLE FINISH SYMBOLS INDICATE WHERE FINISHES ARE DIFFERENT FROM GENERAL ROOM FINISHES, OR PROVIDE ADDITIONAL FINISH INFORMATION

CHANGE AT FLOOR MATERIAL SEE DETAIL D1/A570 FLOOR TRANSITION

XXXX SIGNAGE TAG- SEE SIGNAGE SCHEDULE AND SHEET A800 FOR MORE INFORMATION

STAINLESS STEEL CORNER GUARD TO 4'-0" A.F.F.

## FINISH PLAN LEGEND

NOTE: REFER TO FINISH SCHEDULE IN SPECIFICATIONS, DIVISION 9, FOR INTERIOR FINISH SELECTIONS AND SPECIFICATIONS.

**WALL MATERIALS**

| | |
|---|---|
| W1 | PRIMED & PAINTED WALL SURFACE- GENERAL WHITE |
| W2 | PRIMED & PAINTED WALL SURFACE- ACCENT GRAY |
| W3 | PRIMED & PAINTED WALL SURFACE- ACCENT GREEN |
| W4 | PRIMED & PAINTED WALL SURFACE- ACCENT FULLY PURPLE |
| W5 | PRIMED & PAINTED WALL SURFACE- ACCENT CHARCOAL |
| W6 | NOT USED |
| W7 | WALL TILE - MOSA TILES GLOBAL COLLECTION 16650 GRAY |
| W8 | WALL TILE - MOSA TILES GLOBAL COLLECTION 16860 BEIGE |
| W9 | WALL TILE - MOSA TILES GLOBAL COLLECTION 20930 PURPLE |
| WE | EXISTING WALL FINISH |

**FLOOR MATERIALS**

| | |
|---|---|
| F1 | GENERAL CARPET - PATCRAFT 10294 IDEA, COLOR: 00590 MINDSET |
| F2 | ACCENT CARPET - PATCRAFT 10294 IDEA, COLOR 00100 INSIGHT |
| F3 | VINYL TILE FLOORING - ARMSTRONG STRIATIONS BBT, T 3608 WARM GRAY |
| F4 | MOSAIC FLOOR TILE - DALTILE KEYSTONES BLOCK RANDOM, DESERT GRAY SPECKLE |
| F5 | |
| F6 | RUBBER FLOORING - MONDO SPORT IMPACT 011 MEDIUM GREY |
| F7 | RUBBER FLOORING - MONDO SPORT IMPACT 018 DARK GREY |
| F8 | RUBBER FLOORING - MONDO SPORT IMPACT 026 PURPLE |
| F9 | RUNNING TRACK - MONDO |
| F10 | ATHLETIC WOOD FLOOR |
| F11 | PORCELAIN TILE - 12X24 Q-STONE |
| F12 | ENTRANCE / WALK OFF MATTING CARPET SYSTEM |
| F13 | TRAFFIC COATING |
| F14 | SEALED CONCRETE |
| F15 | VCT |
| FE | EXISTING FLOOR MATERIAL |

**WOOD**

| | |
|---|---|
| WD1 | WOOD DOORS - VT INDUSTRIES WHITE MAPLE VENEER, CLEAR FINISH CL07 |
| WD2 | STAINED AND FINISHED MDF PANEL- LIGHT |
| WD3 | STAINED AND FINISHED MDF PANEL MDF - DARK |

**BASE MATERIALS**

| | |
|---|---|
| B1 | 4" RUBBER BASE - JOHNSONITE; 20 CHARCOAL |
| B2 | VENTED BASE - SEE DETAIL A4/A590 |
| B3 | CERAMIC TILE BASE |
| B4 | NO BASE - CAULK BETWEEN FLOOR & WALL |
| B5 | WRAP TRAFFIC COATING UP WALL 4" |
| BE | EXISTING BASE |

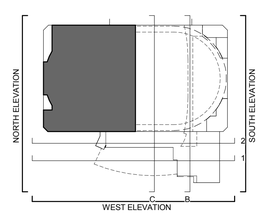
**SURFACE MATERIALS**

| | |
|---|---|
| PL1 | PLASTIC LAMINATE - WILSONART 7949K-18 ASIAN NIGHT (DARK GRAY) |
| PL2 | PLASTIC LAMINATE - WILSONART 4878-38 PEWTER MESH (LIGHT GRAY) |
| PL3 | PLASTIC LAMINATE - NEVAMAR VOUS TEMPEST VS6002T (MEDIUM GRAY) |
| PL4 | PLASTIC LAMINATE - NEVAMAR EXTREME GREEN BAMBOO TEXTURED WX5001T (GREEN) |
| SS1 | SOLID SURFACE - CAMBRIA WAVERTON 0250 (WHITE) |
| SS2 | SOLID SURFACE - CAMBRIA WAVERTON 0250 (WHITE) |
| PLE | EXISTING PLASTIC LAMINATE |
| SSE | EXISTING SOLID SURFACE |

## GENERAL FINISH NOTES

1. ALL FLOOR TRANSITIONS LOCATED AT CENTER OF DOOR.
2. SEE ELEVATION SHEETS FOR ALL WALL TILE PATTERNS.
3. FIELD VERIFY ALL DIMENSIONS BEFORE FABRICATION OF MILLWORK.
4. COORDINATE ALL MILLWORK WITH APPLIANCES BEFORE FABRICATION.
5. ALL WINDOW SILLS TO BE SOLID SURFACE U.N.O.
6. ALL WOOD TRIM TO BE STAINED TO MATCH DOOR STAIN.
7. ALL COUNTERTOPS TO BE PLASTIC LAMINATE, U.N.O.
8. FLOOR TILE PATTERNS TO BE INSTALLED AS INDICATED ON FINISH AND SIGNAGE PLAN.
9. TYPICAL TILE DIRECTION PATTERNS TO BE MAINTAINED AND CONSISTENT THROUGHOUT INDICATED SPACE.

## KEY PLAN




VCBO
ARCHITECTURE
VALENTINER
CRANE
BRUNJES
ONYON

LICENSED ARCHITECT
No. 13392
BRENT R. TIPPETS
10-2-12
STATE OF UTAH

VCBO ARCHITECTURE
524 SOUTH 600 EAST
SALT LAKE CITY, UT 84102
Phone: (801) 575-8800
Fax: (801) 531-9850
WWW: www.vcbo.com

DFCM CODE COMPLIANCE STAMP

# Student Activity Center
Stromberg Addition - BID SET
Weber State University
3750 Harrison Blvd. Ogden, UT 84408

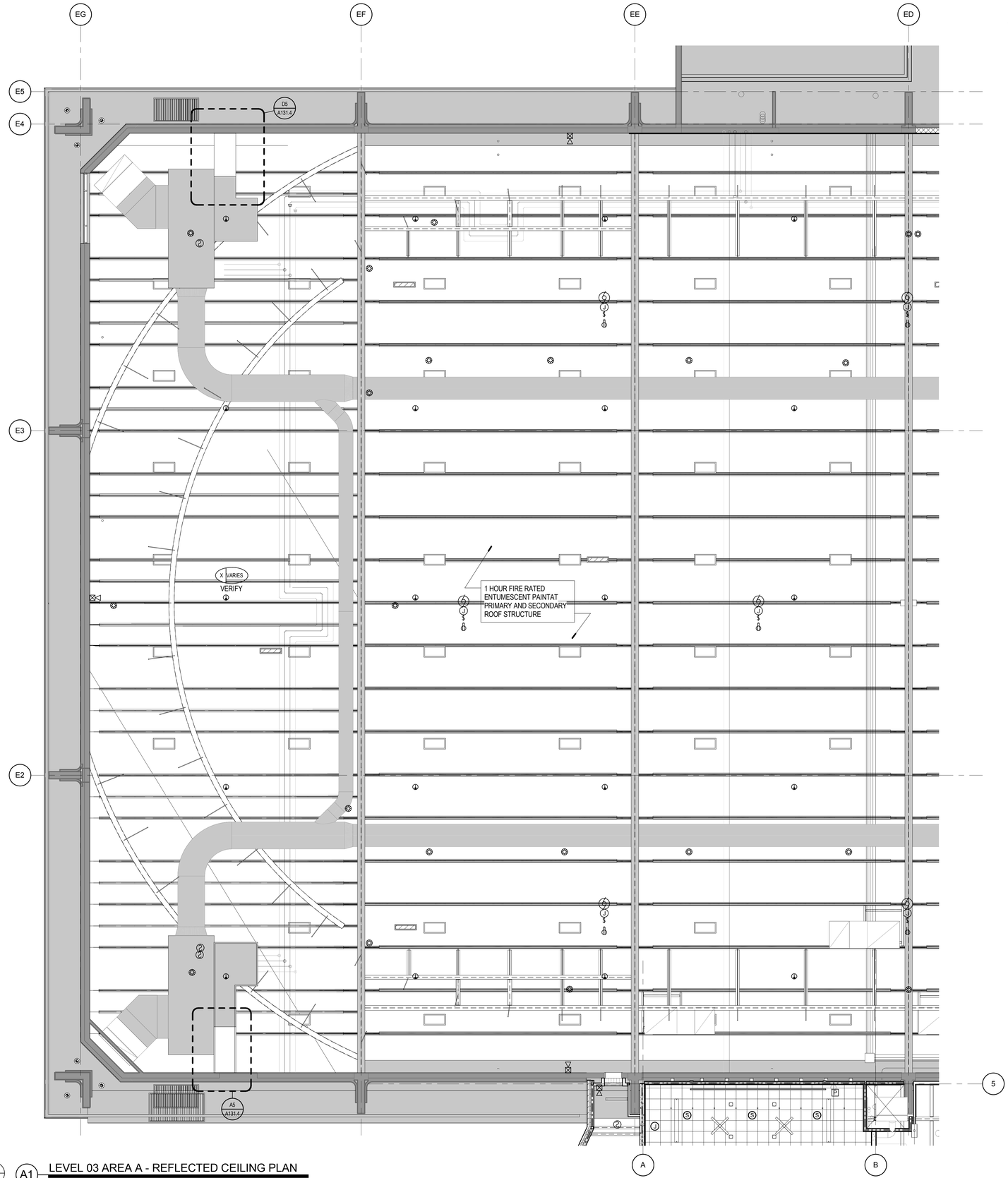
| Rev # | Date | Description |
|---|---|---|

Job # 12475
CAD File
Drawn Author Checked Checker
Date 10.03.2012
Owner # DFCM #12031810

LEVEL 03 AREA A - FINISH PLAN

A131.3

10/3/2012 3:12:39 PM



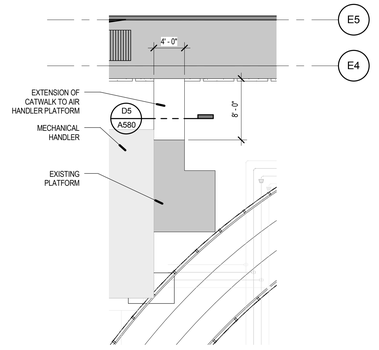

NORTH

## A1 LEVEL 03 AREA A - REFLECTED CEILING PLAN

SCALE: 1/8" = 1'-0"

0' 4' 8' 16' 24'

## KEYED NOTES




## D5 MECHANICAL CATWALK PLAN

SCALE: 1/8" = 1'-0"

## CEILING LEGEND

| | | |
|---|---|---|
| A- | SUSPENDED 2' X 2' ACOUSTICAL LAY-IN TILE CEILING |
| B- | SUSPENDED 2' X 4' ACOUSTICAL LAY-IN TILE CEILING |
| C- | SUSPENDED 5/8" GYP. BD. CEILING SYSTEM - (1 LAYER) PAINTED. APPLY EPOXY PAINT IN WET AREAS. |
| D- | SUSPENDED 2' X 2' METAL SCULPTURAL LAY-IN TILE CEILING. |
| E- | OPEN TO STRUCTURE ABOVE, PAINTED. |
| F- | METAL SOFFIT SYSTEM |
| G- | 2 HOUR FIRE-RATED CEILING ASSEMBLY. (2) LAYERS TYPE-X GYP. BOARD. |
| J- | COMPOSITE METAL PANEL |
| X- | EXISTING CEILING SYSTEM, TO REMAIN |

## CEILING SYMBOLS

**ELECTRICAL**

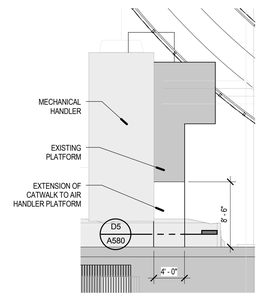
- 2'X4' FLUORESCENT FIXTURE
- 2'X2' FLUORESCENT FIXTURE
- 1'X4' FLUORESCENT FIXTURE
- FLUORESCENT STRIP FIXTURE
- RECESSED DOWN LIGHT
- WALL WASH
- 1'X4' FLUORESCENT FIXTURE
- EXIT SIGN, SINGLE-SIDED
- EXIT SIGN, DOUBLE-SIDED
- F FIRE ALARM
- S SPEAKER
- P SMOKE DETECTOR
- W WIRELESS INTERNET

**MECHANICAL**

- SUPPLY GRILLE
- RETURN GRILLE
- EXHAUST GRILLE
- LINEAR DIFFUSER
- SPRINKLER HEAD - CEILING MOUNT
- SPRINKLER HEAD - WALL MOUNT

## GENERAL CEILING NOTES

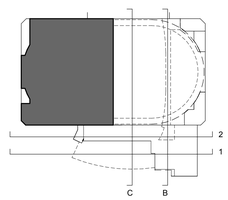
1. REFER TO DETAIL C6/A530 FOR TYPICAL CEILING SUSPENSION & SEISMIC BRACING
2. REFER TO DETAIL A6/A530 FOR TYPICAL SUSPENDED GYP. BOARD CEILINGS
3. ALL UNIDENTIFIED CEILING TYPES ON THE PLANS SHALL BE TYPE " A" AT 9'-4" A.F.F.
4. GRID SUSPENSION SYSTEMS SHALL BE CENTERED WITHIN AREAS INDICATED, UNLESS NOTED OTHERWISE
5. PAINT ALL EXPOSED STRUCTURE, MECHANICAL, DUCTS, ELECTRICAL WORK, PIPING, ETC. ALL VISIBLE ELEMENTS TO BE PAINTED AT TYPE "E" & TYPE "A" (ABOVE CEILING CLOUDS WHERE VISABLE)
6. REFER TO ARCHITECTURAL DRAWINGS FOR LOCATION OF MECHANICAL GRILLES, AND TO MECHANICAL DRAWINGS FOR QUANTITIES AND TYPES
7. REFER TO ARCHITECTURAL DRAWINGS FOR LOCATIONS OF LIGHT FIXTURES AND TO ELECTRICAL DRAWINGS FOR QUANTITY AND TYPES
8. MECHANICAL AND ELECTRICAL CONTRACTORS TO COORDINATE WORK WITH SPRINKLER CONTRACTOR TO AVOID CONFLICTS IN FIELD
9. ALL CEILING HEIGHTS ARE ELEVATION ABOVE TOP OF CONCRETE FLOOR SLAB
10. ALL TYPE C CEILINGS IN RESTROOMS, LOCKER ROOMS, SHOWERS, AND WET AREAS TO BE EPOXY PAINTED




## A5 MECHANICAL CATWALK PLAN

SCALE: 1/8" = 1'-0"

## KEY PLAN




VCBO
ARCHITECTURE
VALENTINER
CRANE
BRUNJES
ONYON

VCBO ARCHITECTURE
524 SOUTH 600 EAST
SALT LAKE CITY, UT 84102
Phone: (801) 575-8800
Fax: (801) 531-9850
WWW: www.vcbo.com

LICENSED ARCHITECT
No. 13392
BRENT R. TIPPETS
10-2-12
STATE OF UTAH

DFCM CODE COMPLIANCE STAMP

# Student Activity Center
## Stromberg Addition - BID SET
Weber State University
3750 Harrison Blvd. Ogden, UT 84408

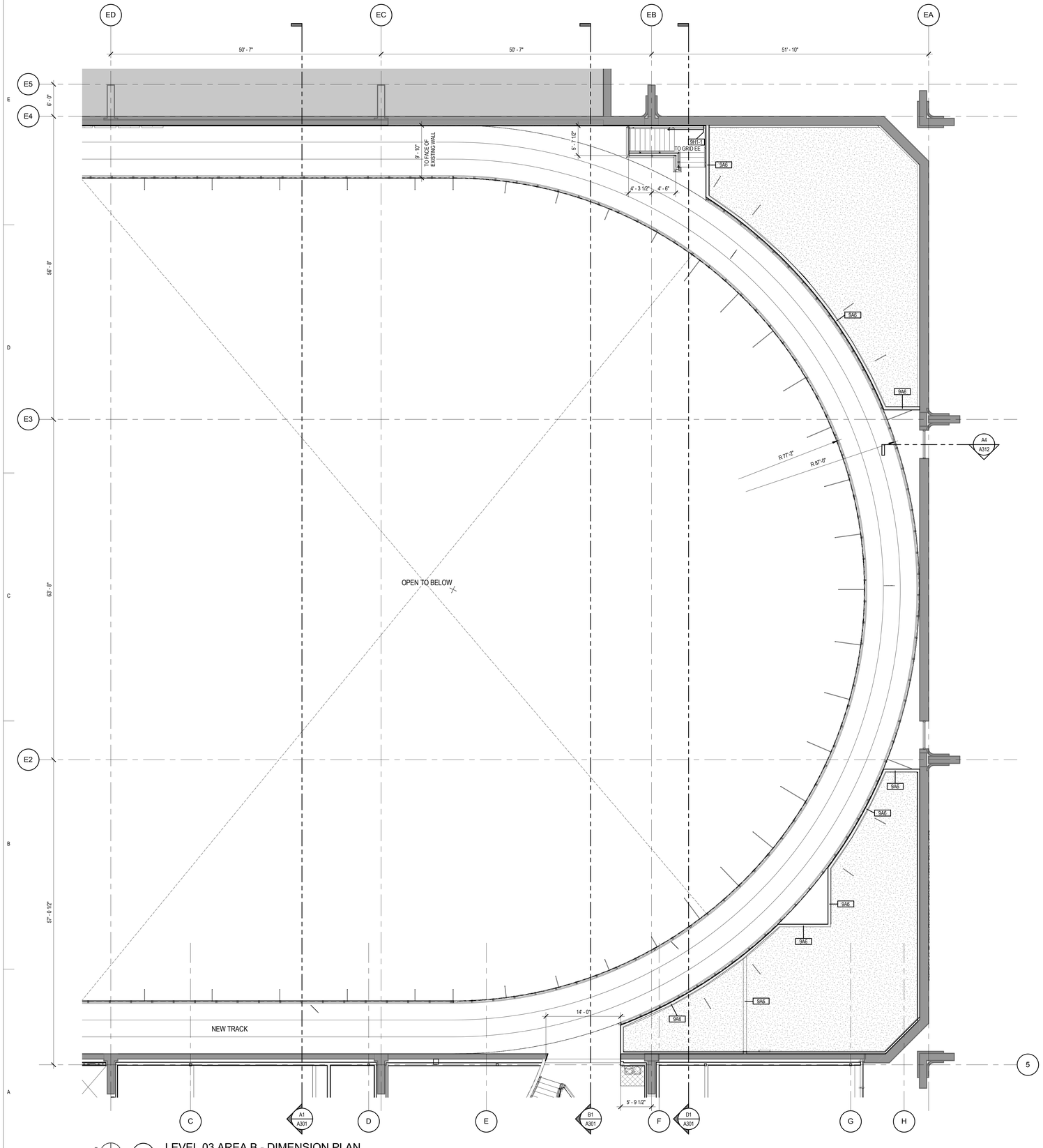
| Rev # | Date | Description |
|---|---|---|

Job # 12475
CAD File
Drawn Author Checked Checker
Date 10.03.2012
Owner # DFCM #12031810

LEVEL 03 AREA A - REFLECTED CEILING PLAN

A131.4

10/3/2012 3:12:56 PM




NORTH

A1 LEVEL 03 AREA B - DIMENSION PLAN

SCALE: 1/8" = 1'-0"

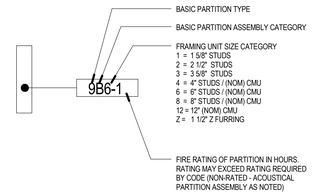
0' 4' 8' 16' 24'

## KEYED NOTES

## PARTITION TYPE SYMBOL DEFINITION

**SYMBOL DEFINITION**

BASIC PARTITION TYPE AND ADDITIONAL PARTITION COMPONENTS, IF ANY, ARE INDICATED IN THE FLOOR PLANS BY THE FOLLOWING SYMBOL




SEE SHEET A500 FOR WALL TYPES

## DIMENSION PLAN NOTES

1) ALL DIMENSIONS ARE TO CENTER OF STUD WALL OR FACE OF CONCRETE, MASONRY OR ROUGH OPENING UNLESS NOTED OTHERWISE. WHERE THE END OF A WALL IS INDICATED THE DIMENSION IS TO THE FINISH SURFACE OF THE WALL END.

2) DIMENSIONS ARE TO FACE-OF-FINISH WHEN MARKED CLR (CLEAR DIMENSION)

3) WHERE A.D.A. 5'-0" ACCESIBILITY DIMENSION IS REQUIRED, IT IS FACE-OF-FINISH CLEAR DIMENSION.

4) U.N.O., WHERE WALLS ARE SHOWN OVER GRIDLINES, CENTER STUD TRACK ON GRIDLINE.

5) WHERE POSSIBLE AND U.N.O. DOOR LOCATIONS ON OPPOSITE SIDES OF HALLWAYS AND COMMON SPACES ARE TO ALIGN DIMENSIONALLY.

6) U.N.O. ALIGN FACE OF FINISH WHERE VARYING WALL TYPES ARE SHOWN ADJACENT TO EACH OTHER IN A ROW.

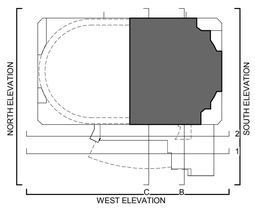
7) WHERE KEYED ON FLOOR PLANS, REFER TO ENLARGED FLOOR PLAN DRAWINGS AND DETAIL DRAWINGS FOR DIMENSIONS.

8) UNLESS DIMENSIONED OTHERWISE, THE DIMENSION FROM THE BUCK OF A DOOR FRAME IS TO BE 4" TO THE WALL CORNER.

9) PROVIDE GLASS MAT GYPSUM BOARD AT ALL TILE AREAS.

10) EXCEPT WHERE DIRECTED TO PLACE ITEMS OF WORK AT THE APPROXIMATE LOCATION SHOWN, DO NOT SCALE DRAWINGS FOR DIMENSIONAL INFORMATION. ALL ELEMENTS OF THE DRAWINGS MAY NOT BE DRAWN TO EXACT SCALE. ALL DIMENSIONS REQUIRED ARE SHOWN OR MAY BE DERIVED FROM THOSE SHOWN ON THE FLOOR PLANS, DETAIL PLANS, ELEVATIONS, SECTIONS, DETAILS, SCHEDULES AND SPECIFICATIONS. IF DIMENSIONS ARE NOT PRESENT, THE ARCHITECT IS TO BE NOTIFIED SO THAT A CLARIFICATION CAN BE ISSUED

## KEY PLAN




VCBO
ARCHITECTURE
VALENTINER
CRANE
BRUNJES
ONYON

LICENSED ARCHITECT
No. 13392
BRENT R. TIPPETS
10-2-12
STATE OF UTAH

VCBO ARCHITECTURE
524 SOUTH 600 EAST
SALT LAKE CITY, UT 84102
Phone: (801) 575-8800
Fax: (801) 531-9850
WWW: www.vcbo.com

DFCM CODE COMPLIANCE STAMP

# Student Activity Center
## Stromberg Addition - BID SET
Weber State University
3750 Harrison Blvd. Ogden, UT 84408

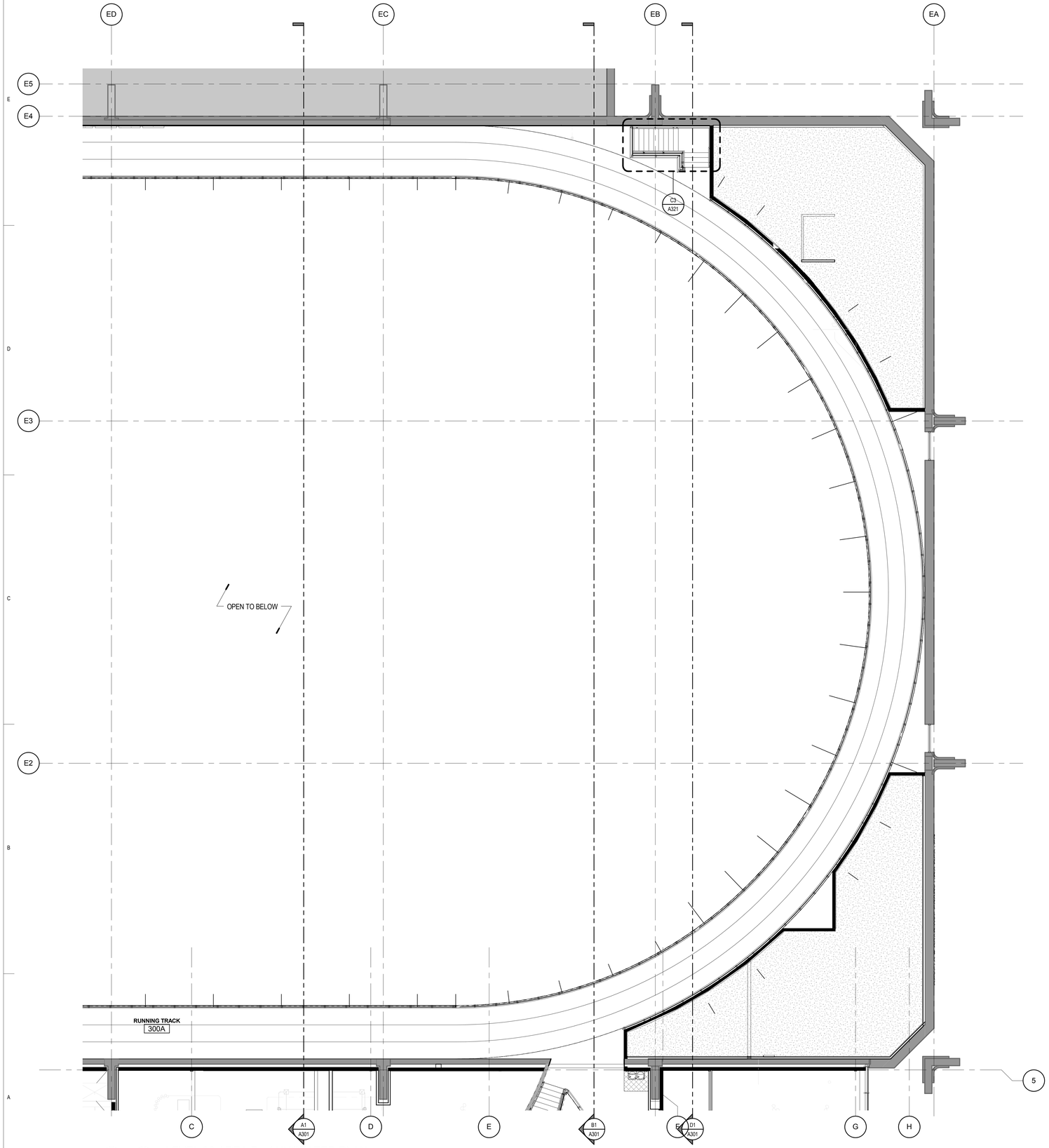
| Rev # | Date | Description |
|---|---|---|

Job # 12475
CAD File
Drawn Author Checked Checker
Date 10.03.2012
Owner # DFCM #12031810

LEVEL 03 AREA B - DIMENSION PLAN

A132.1

10/3/2012 3:13:07 PM




NORTH

A1 LEVEL 03 AREA B - ANNOTATED PLAN

SCALE: 1/8" = 1'-0"

0' 4' 8' 16' 24'

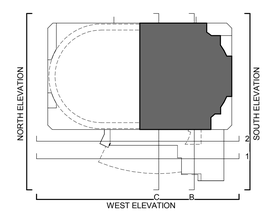
## ANNOTATED FLOOR PLAN NOTES

| SYMBOLOGY | |
|---|---|
| B003F | DOOR NUMBER (SEE SHEET A600.0 FOR DOOR SCHEDULE) |
| C12 | WINDOW NUMBER (SEE SHEETS A610.0, A611.0, A620.0 FOR WINDOW TYPES) |
| | EXISTING AREA/ ITEM TO REMAIN |

1. WHERE FLOOR DRAINS ARE INSTALLED, THE FLOOR IS TO SLOPE TO THE DRAIN. THE MAXIMUM SLOPE IS NOT OT EXCEED 2% WHILE THE MINIMUM SLOPE IS NOT TO BE LESS THAN 1%.
2. WHERE CONCRETE PADS ARE CALLED TO BE CONSTRUCTED UNDER EQUIPMENT, THE SLAB IS TO BE 8" THICK, U.N.O., AND IS TO HAVE #4 BARS AT 18" O.C. EACH WAY. COORDINATE DIMENSIONS OF PAD WITH ACTUAL EQUIPMENT SPEC.
3. SEE TYPICAL FLOORING TRANSITION DETAILS SHEET A590.
4. THE CONTRACTOR IS TO ENSURE THAT BETWEEN ANY FINISH FLOOR ELEVAITON TO 34" A.F.F. ALL GUARDRAILS ARE TO BE CONSTRUCTED AND INSTALLED SO THAT A 4" SPHERE WILL NOT PASS BETWEEN ANY TOW ADJACENT GUARDRAIL COMPONENTS OR BETWEEN THE EDGE OF A GUARDRAIL AND ALL ADJACENT BUILDING ELEMENTS SUCH AS A WALL OR FLOOR. AND 8" DIAMETER SHPERE IS NOT TO PASS BETWEEN THE ABOVE MENTIONED COMPONENTS AND ELEMENTS FROM AN ELEVATION 34" A.F.F. AND HIGHER.
5. SEE TYPICAL FIRE EXTINGUISER CABINET INSTALLATION DETAILS.

## KEYED NOTES

## KEY PLAN




VCBO
ARCHITECTURE
VALENTINER
CRANE
BRUNJES
ONYON

LICENSED ARCHITECT
No. 13392
BRENT R. TIPPETS
10-2-12
STATE OF UTAH

VCBO ARCHITECTURE
524 SOUTH 600 EAST
SALT LAKE CITY, UT 84102
Phone: (801) 575-8800
Fax: (801) 531-9850
WWW: www.vcbo.com

DFCM CODE COMPLIANCE STAMP

# Student Activity Center
## Stromberg Addition - BID SET
Weber State University
3750 Harrison Blvd. Ogden, UT 84408

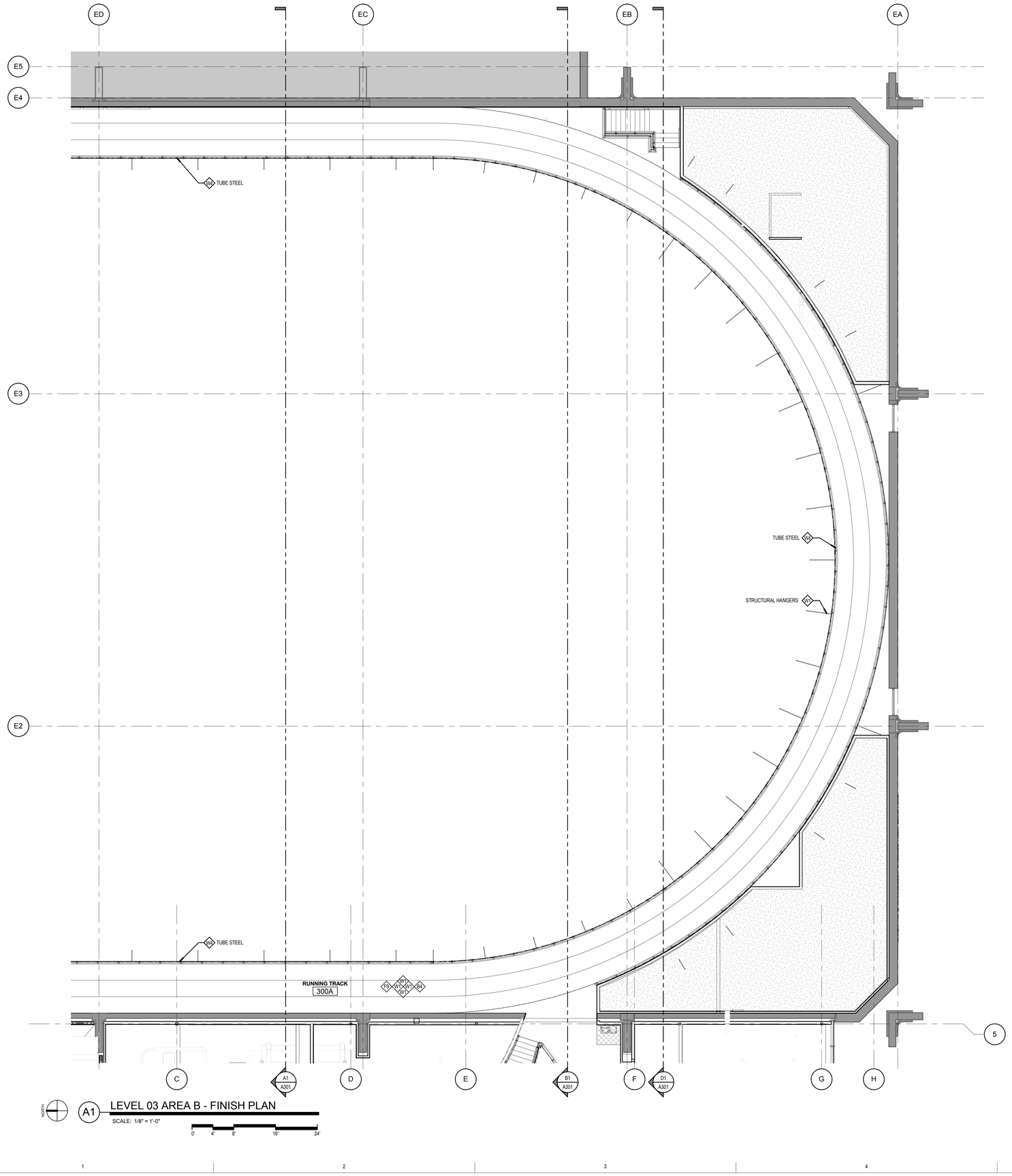
| Rev # | Date | Description |
|---|---|---|

Job # 12475
CAD File
Drawn Author Checked Checker
Date 10.03.2012
Owner # DFCM #12031810

LEVEL 03 AREA B - ANNOTATED PLAN

A132.2

10/3/2012 3:13:18 PM



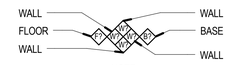

NORTH

A1 LEVEL 03 AREA B - FINISH PLAN

SCALE: 1/8" = 1'-0"

0' 4' 8' 16' 24'

## FINISH PLAN SYMBOLS




NOTE

SINGLE FINISH SYMBOLS INDICATE WHERE FINISHES ARE DIFFERENT FROM GENERAL ROOM FINISHES, OR PROVIDE ADDITIONAL FINISH INFORMATION

CHANGE AT FLOOR MATERIAL SEE DETAIL D1/A570 FLOOR TRANSITION

XXXX SIGNAGE TAG- SEE SIGNAGE SCHEDULE AND SHEET A800 FOR MORE INFORMATION

STAINLESS STEEL CORNER GUARD TO 4'-0" A.F.F.

## FINISH PLAN LEGEND

NOTE: REFER TO FINISH SCHEDULE IN SPECIFICATIONS, DIVISION 9, FOR INTERIOR FINISH SELECTIONS AND SPECIFICATIONS.

**WALL MATERIALS**

| | |
|---|---|
| W1 | PRIMED & PAINTED WALL SURFACE- GENERAL WHITE |
| W2 | PRIMED & PAINTED WALL SURFACE- ACCENT GRAY |
| W3 | PRIMED & PAINTED WALL SURFACE- ACCENT GREEN |
| W4 | PRIMED & PAINTED WALL SURFACE- ACCENT FULLY PURPLE |
| W5 | PRIMED & PAINTED WALL SURFACE- ACCENT CHARCOAL |
| W6 | NOT USED |
| W7 | WALL TILE - MOSA TILES GLOBAL COLLECTION 16650 GRAY |
| W8 | WALL TILE - MOSA TILES GLOBAL COLLECTION 16860 BEIGE |
| W9 | WALL TILE - MOSA TILES GLOBAL COLLECTION 20930 PURPLE |
| WE | EXISTING WALL FINISH |

**FLOOR MATERIALS**

| | |
|---|---|
| F1 | GENERAL CARPET - PATCRAFT 10294 IDEA, COLOR: 00590 MINDSET |
| F2 | ACCENT CARPET - PATCRAFT 10294 IDEA, COLOR 00100 INSIGHT |
| F3 | VINYL TILE FLOORING - ARMSTRONG STRIATIONS 8BT, T 3608 WARM GRAY |
| F4 | MOSAIC FLOOR TILE - DALTILE KEYSTONES BLOCK RANDOM, DESERT GRAY SPECKLE |
| F5 | |
| F6 | RUBBER FLOORING - MONDO SPORT IMPACT 011 MEDIUM GREY |
| F7 | RUBBER FLOORING - MONDO SPORT IMPACT 018 DARK GREY |
| F8 | RUBBER FLOORING - MONDO SPORT IMPACT 026 PURPLE |
| F9 | RUNNING TRACK - MONDO |
| F10 | ATHLETIC WOODFLOOR |
| F11 | PORCELAIN TILE - 12X24 Q-STONE |
| F12 | ENTRANCE / WALK OFF MATTING CARPET SYSTEM |
| F13 | TRAFFIC COATING |
| F14 | SEALED CONCRETE |
| F15 | VCT |
| FE | EXISTING FLOOR MATERIAL |

**WOOD**

| | |
|---|---|
| WD1 | WOOD DOORS - VT INDUSTRIES WHITE MAPLE VENEER, CLEAR FINISH CL07 |
| WD2 | STAINED AND FINISHED MDF PANEL- LIGHT |
| WD3 | STAINED AND FINISHED MDF PANEL MDF - DARK |

**BASE MATERIALS**

| | |
|---|---|
| B1 | 4" RUBBER BASE - JOHNSONITE; 20 CHARCOAL |
| B2 | VENTED BASE - SEE DETAIL A4/A590 |
| B3 | CERAMIC TILE BASE |
| B4 | NO BASE - CAULK BETWEEN FLOOR & WALL |
| B5 | WRAP TRAFFIC COATING UP WALL 4" |
| BE | EXISTING BASE |

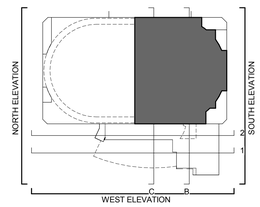
**SURFACE MATERIALS**

| | |
|---|---|
| PL1 | PLASTIC LAMINATE - WILSONART 7949K-18 ASIAN NIGHT (DARK GRAY) |
| PL2 | PLASTIC LAMINATE - WILSONART 4878-38 PEWTER MESH (LIGHT GRAY) |
| PL3 | PLASTIC LAMINATE - NEVAMAR VOUS TEMPEST VS6002T (MEDIUM GRAY) |
| PL4 | PLASTIC LAMINATE - NEVAMAR EXTREME GREEN BAMBOO TEXTURED WX5001T (GREEN) |
| SS1 | SOLID SURFACE - CAMBRIA WAVERTON 0250 (WHITE) |
| SS2 | SOLID SURFACE - CAMBRIA WAVERTON 0250 (WHITE) |
| PLE | EXISTING PLASTIC LAMINATE |
| SSE | EXISTING SOLID SURFACE |

## GENERAL FINISH NOTES

1. ALL FLOOR TRANSITIONS LOCATED AT CENTER OF DOOR.
2. SEE ELEVATION SHEETS FOR ALL WALL TILE PATTERNS.
3. FIELD VERIFY ALL DIMENSIONS BEFORE FABRICATION OF MILLWORK.
4. COORDINATE ALL MILLWORK WITH APPLIANCES BEFORE FABRICATION.
5. ALL WINDOW SILLS TO BE SOLID SURFACE U.N.O.
6. ALL WOOD TRIM TO BE STAINED TO MATCH DOOR STAIN.
7. ALL COUNTERTOPS TO BE PLASTIC LAMINATE, U.N.O.
8. FLOOR TILE PATTERNS TO BE INSTALLED AS INDICATED ON FINISH AND SIGNAGE PLAN.
9. TYPICAL TILE DIRECTION PATTERNS TO BE MAINTAINED AND CONSISTENT THROUGHOUT INDICATED SPACE.

## KEY PLAN




VCBO
ARCHITECTURE
VALENTINER
CRANE
BRUNJES
ONYON

LICENSED ARCHITECT
No. 13392
BRENT R. TIPPETS
10-2-12
STATE OF UTAH

VCBO ARCHITECTURE
524 SOUTH 600 EAST
SALT LAKE CITY, UT 84102
Phone: (801) 575-8800
Fax: (801) 531-9850
WWW: www.vcbo.com

**DFCM CODE COMPLIANCE STAMP**

# Student Activity Center
## Stromberg Addition - BID SET
Weber State University
3750 Harrison Blvd. Ogden, UT 84408

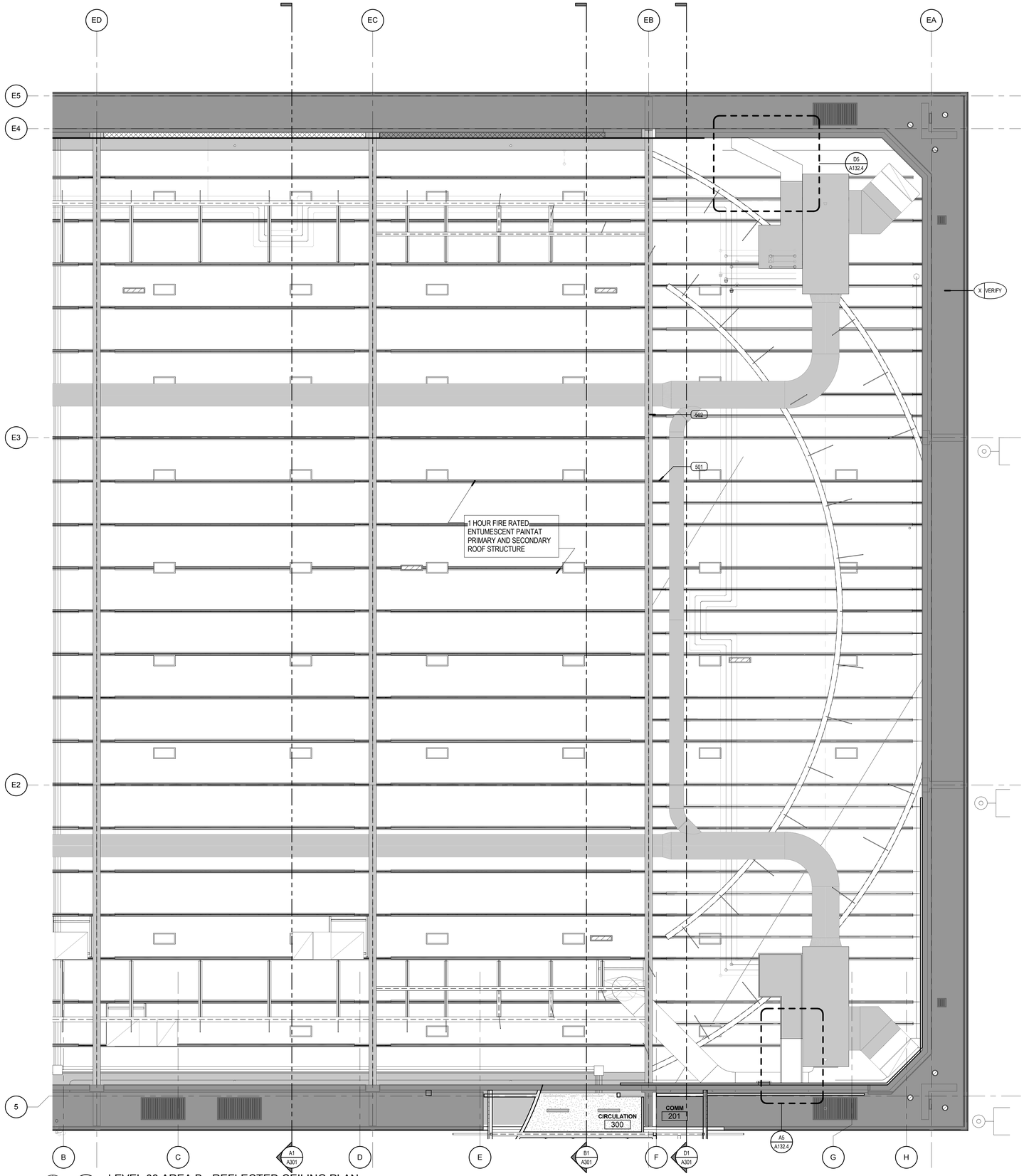
| Rev # | Date | Description |
|---|---|---|

Job # 12475
CAD File
Drawn Author Checked Checker
Date 10.03.2012
Owner # DFCM #12031810

LEVEL 03 AREA B - FINISH PLAN

A132.3

10/3/2012 3:13:29 PM




A1 LEVEL 03 AREA B - REFLECTED CEILING PLAN

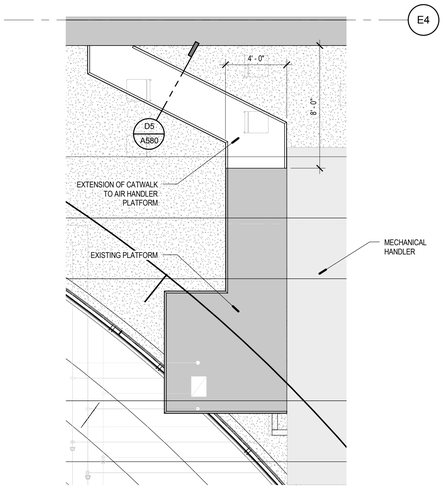
SCALE: 1/8" = 1'-0"

0' 4' 8' 16' 24'

## KEYED NOTES

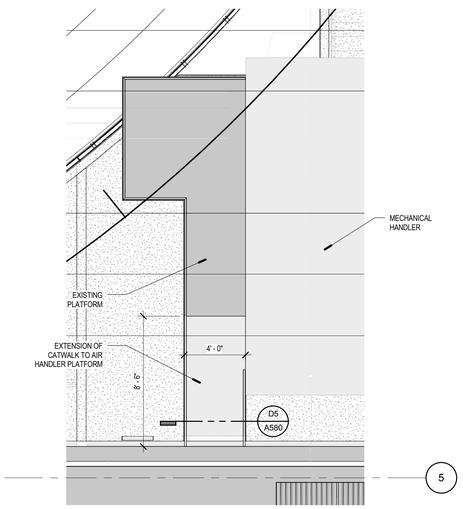
501 STEEL BEAM PAINTED WHERE EXPOSED

502 STEEL JOIST PAINTED WHERE EXPOSED




D5 MECHANICAL CATWALK PLAN

SCALE: 1/4" = 1'-0"




A5 MECHANICAL CATWALK PLAN

SCALE: 1/4" = 1'-0"

## CEILING LEGEND

| | | |
|---|---|---|
| A- | SUSPENDED 2' X 2' ACOUSTICAL LAY-IN TILE CEILING |
| B- | SUSPENDED 2' X 4' ACOUSTICAL LAY-IN TILE CEILING |
| C- | SUSPENDED 5/8" GYP. BD. CEILING SYSTEM - (1 LAYER) PAINTED. APPLY EPOXY PAINT IN WET AREAS. |
| D- | SUSPENDED 2' X 2' METAL SCULPTURAL LAY-IN TILE CEILING. |
| E- | OPEN TO STRUCTURE ABOVE, PAINTED. |
| F- | METAL SOFFIT SYSTEM |
| G- | 2 HOUR FIRE-RATED CEILING ASSEMBLY. (2) LAYERS TYPE-X GYP. BOARD. |
| J- | COMPOSITE METAL PANEL |
| X- | EXISTING CEILING SYSTEM, TO REMAIN |

## CEILING SYMBOLS

**ELECTRICAL**

- 2'X4' FLUORESCENT FIXTURE
- 2'X2' FLUORESCENT FIXTURE
- 1'X4' FLUORESCENT FIXTURE
- FLUORESCENT STRIP FIXTURE
- RECESSED DOWN LIGHT
- WALL WASH
- 1'X4' FLUORESCENT FIXTURE
- EXIT SIGN, SINGLE-SIDED
- EXIT SIGN, DOUBLE-SIDED
- FA — FIRE ALARM
- S — SPEAKER
- P — SMOKE DETECTOR
- W — WIRELESS INTERNET

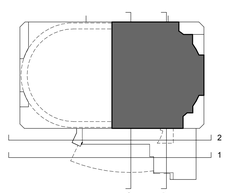
**MECHANICAL**

- SUPPLY GRILLE
- RETURN GRILLE
- EXHAUST GRILLE
- LINEAR DIFFUSER
- SPRINKLER HEAD - CEILING MOUNT
- SPRINKLER HEAD - WALL MOUNT

## GENERAL CEILING NOTES

1. REFER TO DETAIL C6/A530 FOR TYPICAL CEILING SUSPENSION & SEISMIC BRACING
2. REFER TO DETAIL A6/A530 FOR TYPICAL SUSPENDED GYP. BOARD CEILINGS
3. ALL UNIDENTIFIED CEILING TYPES ON THE PLANS SHALL BE TYPE " A" AT 9'-4" A.F.F.
4. GRID SUSPENSION SYSTEMS SHALL BE CENTERED WITHIN AREAS INDICATED, UNLESS NOTED OTHERWISE
5. PAINT ALL EXPOSED STRUCTURE, MECHANICAL, DUCTS, ELECTRICAL WORK, PIPING, ETC. ALL VISIBLE ELEMENTS TO BE PAINTED AT TYPE "E" & TYPE "A" (ABOVE CEILING CLOUDS WHERE VISABLE)
6. REFER TO ARCHITECTURAL DRAWINGS FOR LOCATION OF MECHANICAL GRILLES, AND TO MECHANICAL DRAWINGS FOR QUANTITIES AND TYPES
7. REFER TO ARCHITECTURAL DRAWINGS FOR LOCATIONS OF LIGHT FIXTURES AND TO ELECTRICAL DRAWINGS FOR QUANTITY AND TYPES
8. MECHANICAL AND ELECTRICAL CONTRACTORS TO COORDINATE WORK WITH SPRINKLER CONTRACTOR TO AVOID CONFLICTS IN FIELD
9. ALL CEILING HEIGHTS ARE ELEVATION ABOVE TOP OF CONCRETE FLOOR SLAB
10. ALL TYPE C CEILINGS IN RESTROOMS, LOCKER ROOMS, SHOWERS, AND WET AREAS TO BE EPOXY PAINTED

## KEY PLAN




VCBO
ARCHITECTURE
VALENTINER
CRANE
BRUNJES
ONYON

LICENSED ARCHITECT
No. 13392
BRENT R. TIPPETS
10-2-12
STATE OF UTAH

VCBO ARCHITECTURE
524 SOUTH 600 EAST
SALT LAKE CITY, UT 84102
Phone: (801) 575-8800
Fax: (801) 531-9850
WWW: www.vcbo.com

DFCM CODE COMPLIANCE STAMP

# Student Activity Center
## Stromberg Addition - BID SET
Weber State University
3750 Harrison Blvd. Ogden, UT 84408

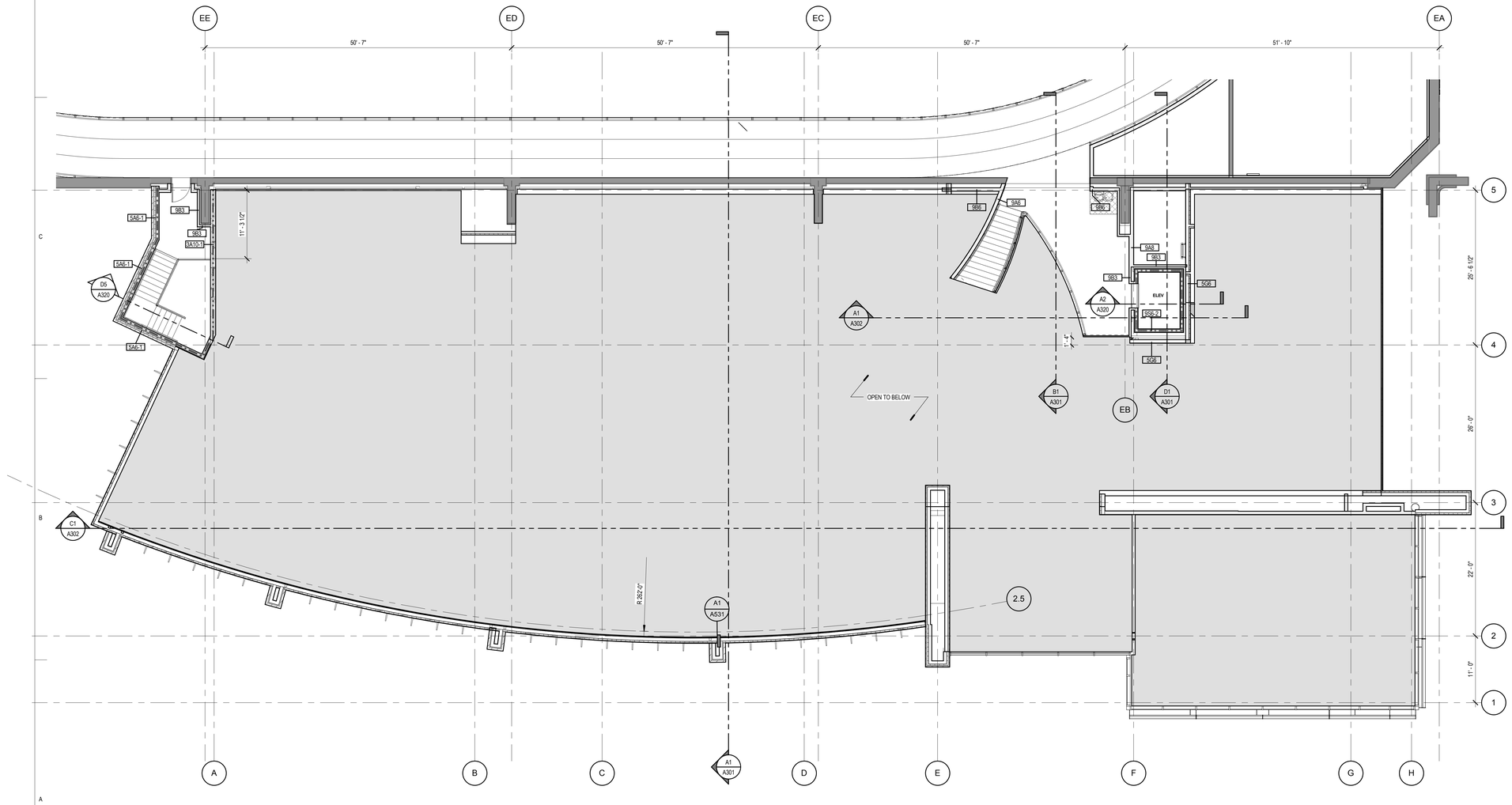
| Rev # | Date | Description |
|---|---|---|

Job # 12475
CAD File
Drawn Author Checked Checker
Date 10.03.2012
Owner # DFCM #12031810

LEVEL 03 AREA B - REFLECTED CEILING PLAN

A132.4

10/3/2012 3:13:44 PM




A1 LEVEL 03 AREA C- DIMENSION PLAN

SCALE: 1/8" = 1'-0"

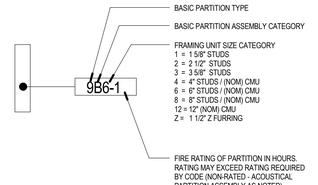
0' 4' 8' 16' 24'

## KEYED NOTES

## PARTITION TYPE SYMBOL DEFINITION

**SYMBOL DEFINITION**

BASIC PARTITION TYPE AND ADDITIONAL PARTITION COMPONENTS, IF ANY, ARE INDICATED IN THE FLOOR PLANS BY THE FOLLOWING SYMBOL




SEE SHEET A500 FOR WALL TYPES

## DIMENSION PLAN NOTES

1) ALL DIMENSIONS ARE TO CENTER OF STUD WALL OR FACE OF CONCRETE, MASONRY OR ROUGH OPENING UNLESS NOTED OTHERWISE. WHERE THE END OF A WALL IS INDICATED THE DIMENSION IS TO THE FINISH SURFACE OF THE WALL END.

2) DIMENSIONS ARE TO FACE-OF-FINISH WHEN MARKED CLR (CLEAR DIMENSION)

3) WHERE A.D.A. 5'-0" ACCESIBILITY DIMENSION IS REQUIRED, IT IS FACE-OF-FINISH CLEAR DIMENSION.

4) U.N.O., WHERE WALLS ARE SHOWN OVER GRIDLINES, CENTER STUD TRACK ON GRIDLINE.

5) WHERE POSSIBLE AND U.N.O, DOOR LOCATIONS ON OPPOSITE SIDES OF HALLWAYS AND COMMON SPACES ARE TO ALIGN DIMENSIONALLY.

6) U.N.O. ALIGN FACE OF FINISH WHERE VARYING WALL TYPES ARE SHOWN ADJACENT TO EACH OTHER IN A ROW.

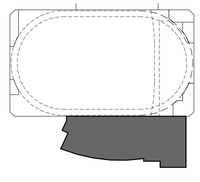
7) WHERE KEYED ON FLOOR PLANS, REFER TO ENLARGED FLOOR PLAN DRAWINGS AND DETAIL DRAWINGS FOR DIMENSIONS.

8) UNLESS DIMENSIONED OTHERWISE, THE DIMENSION FROM THE BUCK OF A DOOR FRAME IS TO BE 4" TO THE WALL CORNER.

9) PROVIDE GLASS MAT GYPSUM BOARD AT ALL TILE AREAS.

10) EXCEPT WHERE DIRECTED TO PLACE ITEMS OF WORK AT THE APPROXIMATE LOCATION SHOWN, DO NOT SCALE DRAWINGS FOR DIMENSIONAL INFORMATION. ALL ELEMENTS OF THE DRAWINGS MAY NOT BE DRAWN TO EXACT SCALE. ALL DIMENSIONS REQUIRED ARE SHOWN OR MAY BE DERIVED FROM THOSE SHOWN ON THE FLOOR PLANS, DETAIL PLANS, ELEVATIONS, SECTIONS, DETAILS, SCHEDULES AND SPECIFICATIONS. IF DIMENSIONS ARE NOT PRESENT, THE ARCHITECT IS TO BE NOTIFIED SO THAT A CLARIFICATION CAN BE ISSUED

## KEY PLAN



VCBO
ARCHITECTURE
VALENTINER
CRANE
BRUNJES
ONYON

VCBO ARCHITECTURE
524 SOUTH 600 EAST
SALT LAKE CITY, UT 84102
Phone: (801) 575-8800
Fax: (801) 531-9850
WWW: www.vcbo.com

DFCM CODE COMPLIANCE STAMP

# Student Activity Center
## Stromberg Addition - BID SET
Weber State University
3750 Harrison Blvd. Ogden, UT 84408

| Rev # | Date | Description |
|---|---|---|

Job # 12475
CAD File
Drawn Author Checked Checker
Date 10.03.2012
Owner # DFCM #12031810

LEVEL 03 AREA C - DIMENSION PLAN

A133.1

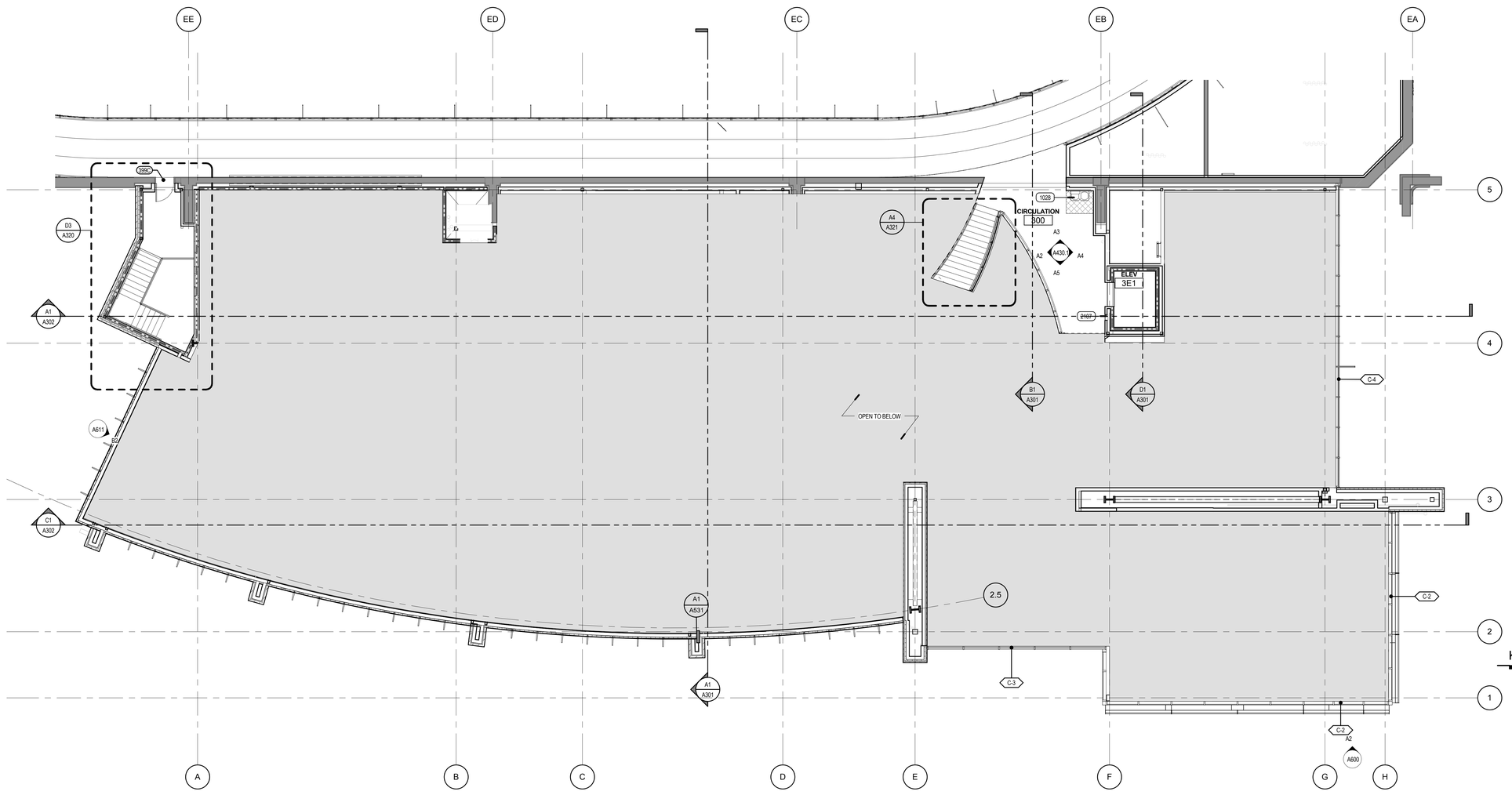
10/3/2012 3:13:56 PM

## PLAN NOTES

1. WHERE FLOOR DRAINS ARE INSTALLED THE FLOOR IS TO SLOPE TO THE DRAIN. THE MAXIMUM SLOPE IS NOT TO EXCEED 2% WHILE THE MINIMUM SLOPE IS NOT TO BE LESS THAN 1%.
2. WHERE CONCRETE PADS ARE CALLED TO BE CONSTRUCTED UNDER EQUIPMENT THE SLAB IS TO BE 8" THICK, U.N.O., AND IS TO HAVE #4 BARS AT 18" O.C. EACH WAY. COORDINATE DIMENSIONS OF PAD WITH ACTUAL EQUIPMENT SPEC
3. SEE SHEET A880 FOR TYPICAL FLOORING TRANSITION DETAILS.
4. THE CONTRACTOR IS TO ENSURE THAT BETWEEN ANY FINISH FLOOR ELEVATION TO 34" A.F.F. ALL GUARDRAILS ARE TO BE CONSTRUCTED AND INSTALLED SO THAT A 4" SPHERE WILL NOT PASS BETWEEN ANY TWO ADJACENT GUARDRAIL COMPONENTS OR BETWEEN THE EDGE OF A GUARDRAIL AND ALL ADJACENT BUILDING ELEMENT SUCH AS A WALL OR FLOOR. AN 8" DIAMETER SPHERE IS NOT TO PASS BETWEEN THE ABOVE MENTIONED COMPONENTS AND ELEMENTS FROM AN ELEVATION 34" A.F.F. AND HIGHER.
5. SEE DETAIL XX AND XX ON SHEET AXXX FOR TYPICAL FIRE EXTINGUISHER CABINET INSTALLATION DETAILS

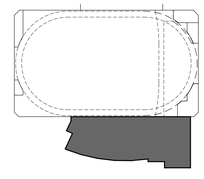
## KEYED NOTES

1028 DRINKING FOUNTAIN WITH BOTTLE FILLER
2107 FIRE EXTINGUISHER CABINET




A2 LEVEL 03 AREA C- ANNOTATED PLAN
SCALE: 1/8" = 1'-0"
0' 4' 8' 16' 24'

## KEY PLAN




VCBO
ARCHITECTURE
VALENTINER
CRANE
BRUNJES
ONYON

VCBO ARCHITECTURE
524 SOUTH 600 EAST
SALT LAKE CITY, UT 84102
Phone: (801) 575-8800
Fax: (801) 531-9850
WWW: www.vcbo.com


LICENSED ARCHITECT
No. 13392
BRENT R. TIPPETS
10-2-12
STATE OF UTAH

DFCM CODE COMPLIANCE STAMP

# Student Activity Center
## Stromberg Addition - BID SET
Weber State University
3750 Harrison Blvd. Ogden, UT 84408

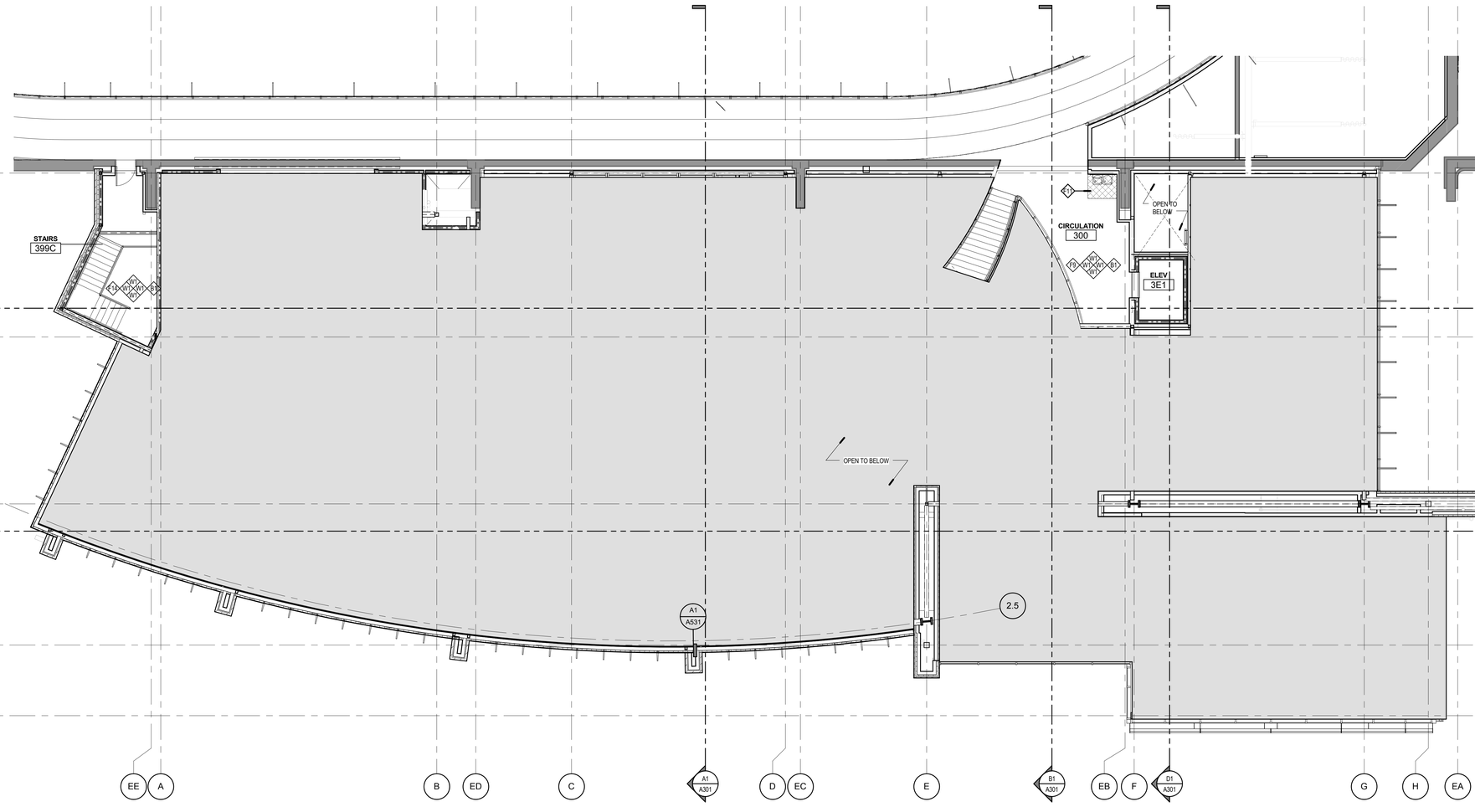
| Rev # | Date | Description |
|---|---|---|

Job # 12475
CAD File
Drawn Author Checked Checker
Date 10.03.2012
Owner # DFCM #12031810

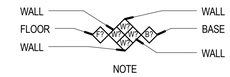
LEVEL 03 AREA C - ANNOTATED PLAN

A133.2

10/3/2012 3:14:10 PM




## FINISH PLAN SYMBOLS




SINGLE FINISH SYMBOLS INDICATE WHERE FINISHES ARE DIFFERENT FROM GENERAL ROOM FINISHES, OR PROVIDE ADDITIONAL FINISH INFORMATION

CHANGE AT FLOOR MATERIAL SEE DETAIL D1/A570 FLOOR TRANSITION

SIGNAGE TAG- SEE SIGNAGE SCHEDULE AND SHEET A800 FOR MORE INFORMATION

STAINLESS STEEL CORNER GUARD TO 4'-0" A.F.F.

## FINISH PLAN LEGEND

NOTE: REFER TO FINISH SCHEDULE IN SPECIFICATIONS, DIVISION 9, FOR INTERIOR FINISH SELECTIONS AND SPECIFICATIONS.

**WALL MATERIALS**

| | |
|---|---|
| W1 | PRIMED & PAINTED WALL SURFACE- GENERAL WHITE |
| W2 | PRIMED & PAINTED WALL SURFACE- ACCENT GRAY |
| W3 | PRIMED & PAINTED WALL SURFACE- ACCENT GREEN |
| W4 | PRIMED & PAINTED WALL SURFACE- ACCENT FULLY PURPLE |
| W5 | PRIMED & PAINTED WALL SURFACE- ACCENT CHARCOAL |
| W6 | NOT USED |
| W7 | WALL TILE - MOSA TILES GLOBAL COLLECTION 16650 GRAY |
| W8 | WALL TILE - MOSA TILES GLOBAL COLLECTION 16860 BEIGE |
| W9 | WALL TILE - MOSA TILES GLOBAL COLLECTION 20930 PURPLE |
| WE | EXISTING WALL FINISH |

**FLOOR MATERIALS**

| | |
|---|---|
| F1 | GENERAL CARPET - PATCRAFT 10294 IDEA, COLOR: 00590 MINDSET |
| F2 | ACCENT CARPET - PATCRAFT 10294 IDEA, COLOR 00100 INSIGHT |
| F3 | VINYL TILE FLOORING - ARMSTRONG STRIATIONS BBT, T 3608 WARM GRAY |
| F4 | MOSAIC FLOOR TILE - DALTILE KEYSTONES BLOCK RANDOM, DESERT GRAY SPECKLE |
| F5 | |
| F6 | RUBBER FLOORING - MONDO SPORT IMPACT 011 MEDIUM GREY |
| F7 | RUBBER FLOORING - MONDO SPORT IMPACT 018 DARK GREY |
| F8 | RUBBER FLOORING - MONDO SPORT IMPACT 026 PURPLE |
| F9 | RUNNING TRACK - MONDO |
| F10 | ATHLETIC WOODFLOOR |
| F11 | PORCELAIN TILE - 12X24 Q-STONE |
| F12 | ENTRANCE / WALK OFF MATTING CARPET SYSTEM |
| F13 | TRAFFIC COATING |
| F14 | SEALED CONCRETE |
| F15 | VCT |
| FE | EXISTING FLOOR MATERIAL |

**WOOD**

| | |
|---|---|
| WD1 | WOOD DOORS - VT INDUSTRIES WHITE MAPLE VENEER, CLEAR FINISH CL07 |
| WD2 | STAINED AND FINISHED MDF PANEL- LIGHT |
| WD3 | STAINED AND FINISHED MDF PANEL MDF - DARK |

**BASE MATERIALS**

| | |
|---|---|
| B1 | 4" RUBBER BASE - JOHNSONITE; 20 CHARCOAL |
| B2 | VENTED BASE - SEE DETAIL A4/A590 |
| B3 | CERAMIC TILE BASE |
| B4 | NO BASE - CAULK BETWEEN FLOOR & WALL |
| B5 | WRAP TRAFFIC COATING UP WALL 4" |
| BE | EXISTING BASE |

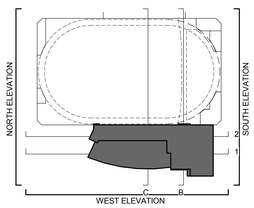
**SURFACE MATERIALS**

| | |
|---|---|
| PL1 | PLASTIC LAMINATE - WILSONART 7949K-18 ASIAN NIGHT (DARK GRAY) |
| PL2 | PLASTIC LAMINATE - WILSONART 4878-38 PEWTER MESH (LIGHT GRAY) |
| PL3 | PLASTIC LAMINATE - NEVAMAR VOUS TEMPEST VS6002T (MEDIUM GRAY) |
| PL4 | PLASTIC LAMINATE - NEVAMAR EXTREME GREEN BAMBOO TEXTURED WX5001T (GREEN) |
| SS1 | SOLID SURFACE - CAMBRIA WAVERTON 0250 (WHITE) |
| SS2 | SOLID SURFACE - CAMBRIA WAVERTON 0250 (WHITE) |
| PLE | EXISTING PLASTIC LAMINATE |
| SSE | EXISTING SOLID SURFACE |

## GENERAL FINISH NOTES

1. ALL FLOOR TRANSITIONS LOCATED AT CENTER OF DOOR.
2. SEE ELEVATION SHEETS FOR ALL WALL TILE PATTERNS.
3. FIELD VERIFY ALL DIMENSIONS BEFORE FABRICATION OF MILLWORK.
4. COORDINATE ALL MILLWORK WITH APPLIANCES BEFORE FABRICATION.
5. ALL WINDOW SILLS TO BE SOLID SURFACE U.N.O.
6. ALL WOOD TRIM TO BE STAINED TO MATCH DOOR STAIN.
7. ALL COUNTERTOPS TO BE PLASTIC LAMINATE, U.N.O.
8. FLOOR TILE PATTERNS TO BE INSTALLED AS INDICATED ON FINISH AND SIGNAGE PLAN.
9. TYPICAL TILE DIRECTION PATTERNS TO BE MAINTAINED AND CONSISTENT THROUGHOUT INDICATED SPACE.

## KEY PLAN




VCBO
ARCHITECTURE
VALENTINER
CRANE
BRUNJES
ONYON

VCBO ARCHITECTURE
524 SOUTH 600 EAST
SALT LAKE CITY, UT 84102
Phone: (801) 575-8800
Fax: (801) 531-9850
WWW: www.vcbo.com

LICENSED ARCHITECT
No. 13392
BRENT R. TIPPETS
10-2-12
STATE OF UTAH

**DFCM CODE COMPLIANCE STAMP**

# Student Activity Center
## Stromberg Addition - BID SET
Weber State University
3750 Harrison Blvd. Ogden, UT 84408

| Rev # | Date | Description |
|---|---|---|

Job # 12475
CAD File
Drawn Author Checked Checker
Date 10.03.2012
Owner # DFCM #12031810

LEVEL 03 AREA C - FINISH PLAN

A133.3

10/3/2012 3:14:24 PM

## KEYED NOTES

507 STEEL COLUMN PAINTED WHERE EXPOSED
518 STEEL LADDER

## CEILING LEGEND

- A- SUSPENDED 2' X 2' ACOUSTICAL LAY-IN TILE CEILING
- B- SUSPENDED 2' X 4' ACOUSTICAL LAY-IN TILE CEILING
- C- SUSPENDED 5/8" GYP. BD. CEILING SYSTEM - (1 LAYER) PAINTED. APPLY EPOXY PAINT IN WET AREAS.
- D- SUSPENDED 2' X 2' METAL SCULPTURAL LAY-IN TILE CEILING.
- E- OPEN TO STRUCTURE ABOVE, PAINTED.
- F- METAL SOFFIT SYSTEM
- G- 2 HOUR FIRE-RATED CEILING ASSEMBLY. (2) LAYERS TYPE-X GYP. BOARD.
- J- COMPOSITE METAL PANEL
- X- EXISTING CEILING SYSTEM, TO REMAIN

## CEILING SYMBOLS

**ELECTRICAL**

- 2'X4' FLUORESCENT FIXTURE
- 2'X2' FLUORESCENT FIXTURE
- 1'X4' FLUORESCENT FIXTURE
- FLUORESCENT STRIP FIXTURE
- RECESSED DOWN LIGHT
- WALL WASH
- 1'X4' FLUORESCENT FIXTURE
- EXIT SIGN, SINGLE-SIDED
- EXIT SIGN, DOUBLE-SIDED
- FIRE ALARM
- SPEAKER
- SMOKE DETECTOR
- WIRELESS INTERNET

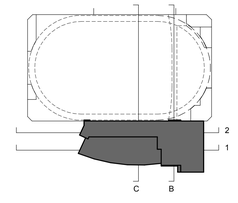
**MECHANICAL**

- SUPPLY GRILLE
- RETURN GRILLE
- EXHAUST GRILLE
- LINEAR DIFFUSER
- SPRINKLER HEAD - CEILING MOUNT
- SPRINKLER HEAD - WALL MOUNT

## GENERAL CEILING NOTES

1. REFER TO DETAIL C6/A530 FOR TYPICAL CEILING SUSPENSION & SEISMIC BRACING
2. REFER TO DETAIL A6/A530 FOR TYPICAL SUSPENDED GYP. BOARD CEILINGS
3. ALL UNIDENTIFIED CEILING TYPES ON THE PLANS SHALL BE TYPE " A" AT 9'-4" A.F.F.
4. GRID SUSPENSION SYSTEMS SHALL BE CENTERED WITHIN AREAS INDICATED, UNLESS NOTED OTHERWISE
5. PAINT ALL EXPOSED STRUCTURE, MECHANICAL, DUCTS, ELECTRICAL WORK, PIPING, ETC. ALL VISIBLE ELEMENTS TO BE PAINTED AT TYPE "E" & TYPE "A" (ABOVE CEILING CLOUDS WHERE VISABLE)
6. REFER TO ARCHITECTURAL DRAWINGS FOR LOCATION OF MECHANICAL GRILLES, AND TO MECHANICAL DRAWINGS FOR QUANTITIES AND TYPES
7. REFER TO ARCHITECTURAL DRAWINGS FOR LOCATIONS OF LIGHT FIXTURES AND TO ELECTRICAL DRAWINGS FOR QUANTITY AND TYPES
8. MECHANICAL AND ELECTRICAL CONTRACTORS TO COORDINATE WORK WITH SPRINKLER CONTRACTOR TO AVOID CONFLICTS IN FIELD
9. ALL CEILING HEIGHTS ARE ELEVATION ABOVE TOP OF CONCRETE FLOOR SLAB
10. ALL TYPE C CEILINGS IN RESTROOMS, LOCKER ROOMS, SHOWERS, AND WET AREAS TO BE EPOXY PAINTED

## KEY PLAN




## A1 LEVEL 03 AREA C - REFLECTED CEILING PLAN

SCALE: 1/8" = 1'-0"

0' 4' 8' 16' 24'

VCBO ARCHITECTURE
524 SOUTH 600 EAST
SALT LAKE CITY, UT 84102
Phone: (801) 575-8800
Fax: (801) 531-9850
WWW: www.vcbo.com

DFCM CODE COMPLIANCE STAMP

# Student Activity Center
## Stromberg Addition - BID SET
Weber State University
3750 Harrison Blvd. Ogden, UT 84408

| Rev # | Date | Description |
|---|---|---|

Job # 12475
CAD File
Drawn Author Checked Checker
Date 10.03.2012
Owner # DFCM #12031810

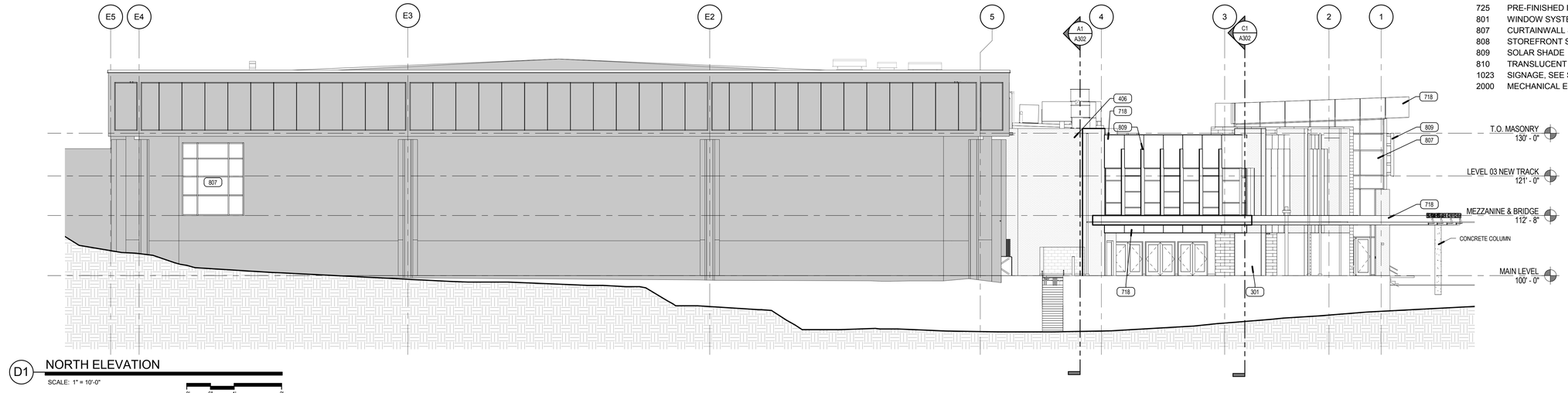
LEVEL 03 AREA C - REFLECTED CEILING PLAN

A133.4

10/3/2012 3:14:31 PM

## KEYED NOTES

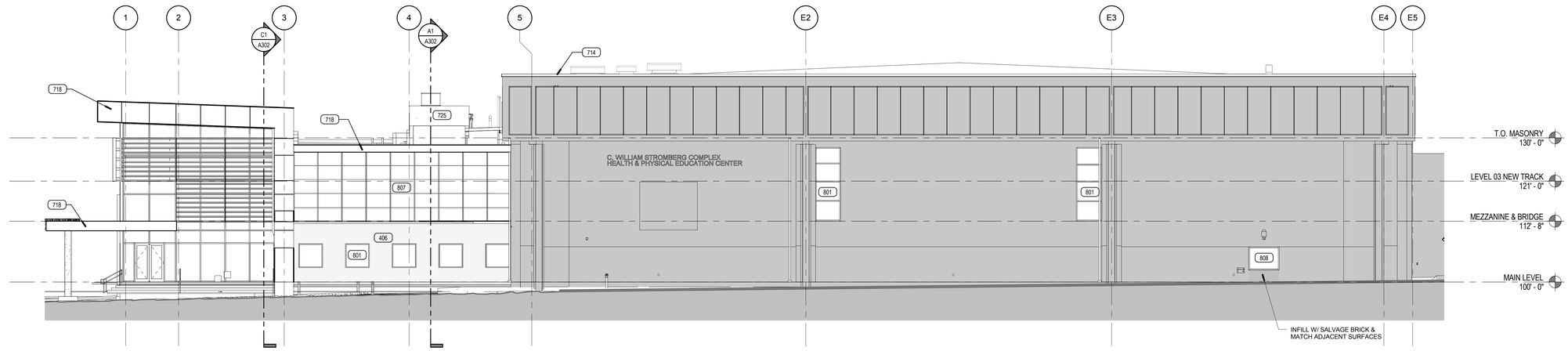
| | |
|---|---|
| 301 | REINFORCED CONCRETE FOUNDATION WALL |
| 402 | 8"X8"X16" HONED SINGLE SCORED CMU |
| 406 | BRICK VENEER SYSTEM |
| 412 | STONE CLADDING SYSTEM |
| 714 | PRE-FINISHED CONT. METAL FLASHING |
| 718 | PREFINISHED EXTERIOR COMPOSITE METAL PANEL SYSTEM |
| 725 | PRE-FINISHED INSULATED METAL PANEL |
| 801 | WINDOW SYSTEM |
| 807 | CURTAINWALL SYSTEM |
| 808 | STOREFRONT SYSTEM |
| 809 | SOLAR SHADE |
| 810 | TRANSLUCENT PANEL SYSTEM, MATCH EXISTING |
| 1023 | SIGNAGE, SEE SCHEDULE |
| 2000 | MECHANICAL EQUIPMENT |




D1 NORTH ELEVATION

SCALE: 1" = 10'-0"

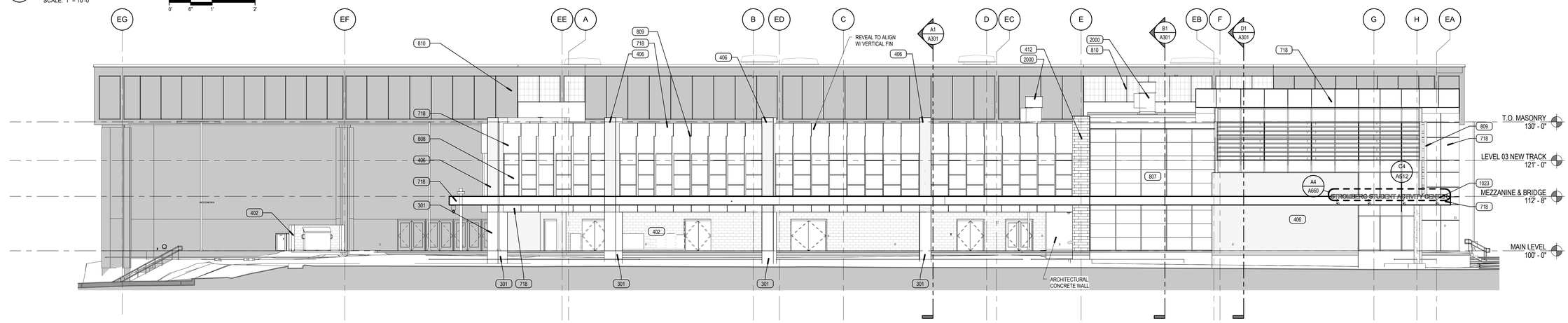
0' 6" 1' 2'




B1 SOUTH ELEVATION

SCALE: 1" = 10'-0"

0' 6" 1' 2'




A1 WEST ELEVATION

SCALE: 1" = 10'-0"

0' 6" 1' 2'

10/3/2012 3:15:02 PM


VCBO
ARCHITECTURE
VALENTINER
CRANE
BRUNJES
ONYON

LICENSED ARCHITECT
No. 13392
BRENT R. TIPPETS
10-2-12
STATE OF UTAH

VCBO ARCHITECTURE
524 SOUTH 600 EAST
SALT LAKE CITY, UT 84102
Phone: (801) 575-8800
Fax: (801) 531-9850
WWW: www.vcbo.com


DFCM CODE COMPLIANCE STAMP

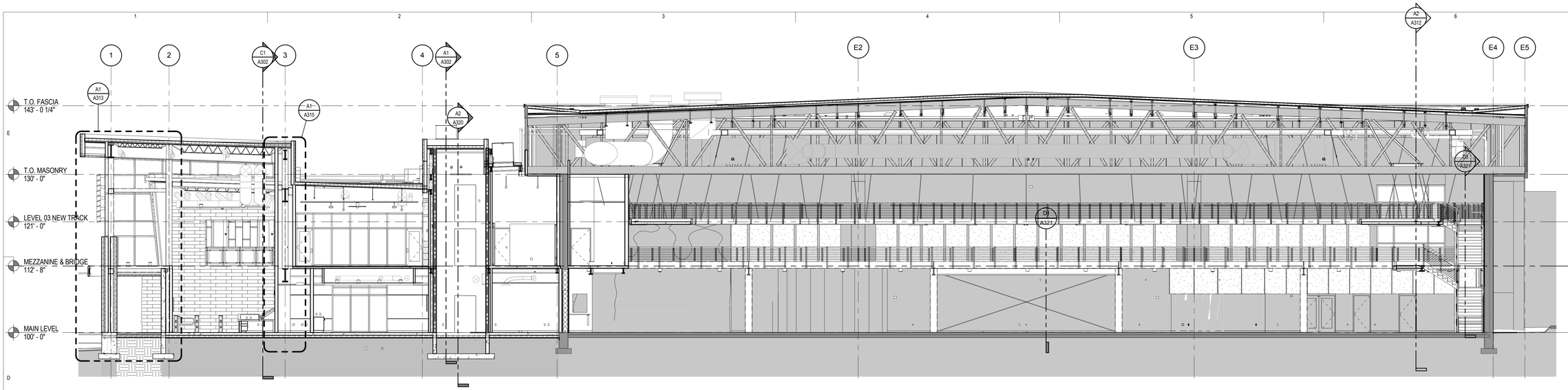
# Student Activity Center
## Stromberg Addition - BID SET
Weber State University
3750 Harrison Blvd. Ogden, UT 84408

| Rev # | Date | Description |
|---|---|---|

Job # 12475
CAD File
Drawn Author Checked Checker
Date 10.03.2012
Owner # DFCM #12031810

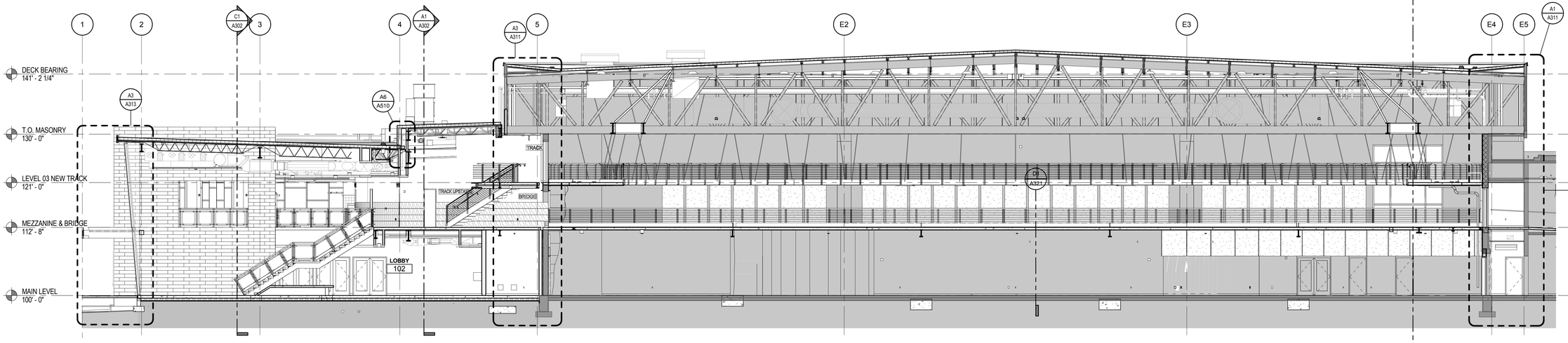
BUILDING ELEVATIONS

A201



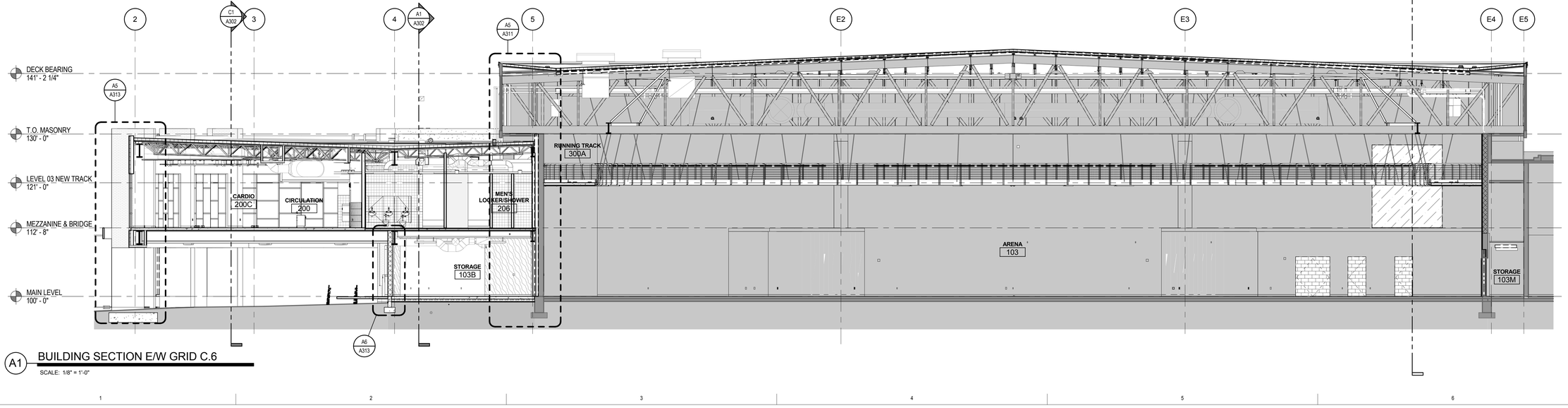

D1 BUILDING SECTION E/W GRID F.2

SCALE: 1/8" = 1'-0"




B1 BUILDING SECTION E/W GRID E.6

SCALE: 1/8" = 1'-0"




A1 BUILDING SECTION E/W GRID C.6

SCALE: 1/8" = 1'-0"

10/3/2012 3:16:16 PM

VCBO
ARCHITECTURE
VALENTINER
CRANE
BRUNJES
ONYON

VCBO ARCHITECTURE
524 SOUTH 600 EAST
SALT LAKE CITY, UT 84102
Phone: (801) 575-8800
Fax: (801) 531-9850
WWW: www.vcbo.com

DFCM CODE COMPLIANCE STAMP

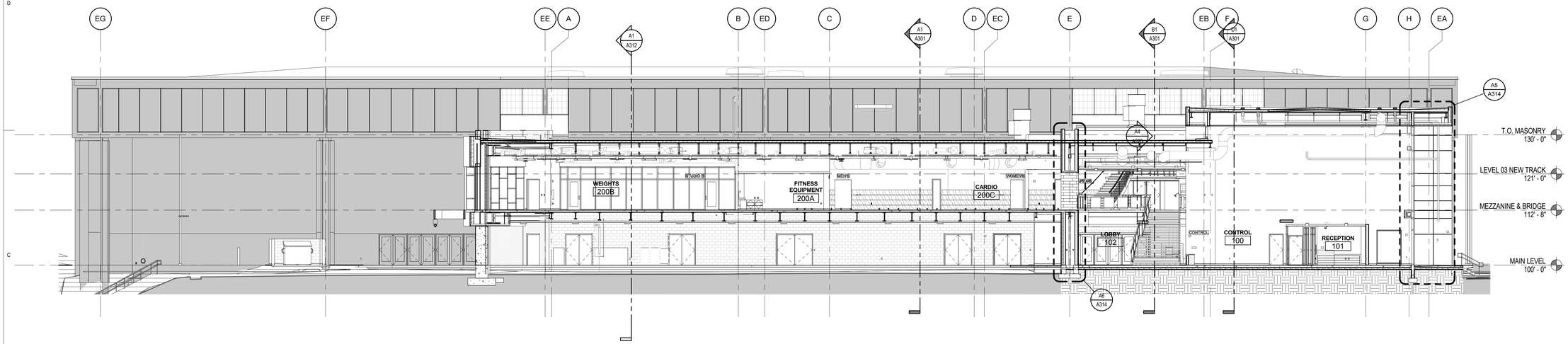
# Student Activity Center
## Stromberg Addition - BID SET
Weber State University
3750 Harrison Blvd. Ogden, UT 84408

| Rev # | Date | Description |
|---|---|---|

Job # 12475
CAD File
Drawn Author Checked Checker
Date 10.03.2012
Owner # DFCM #12031810

OVERALL EAST WEST BUILDING SECTIONS

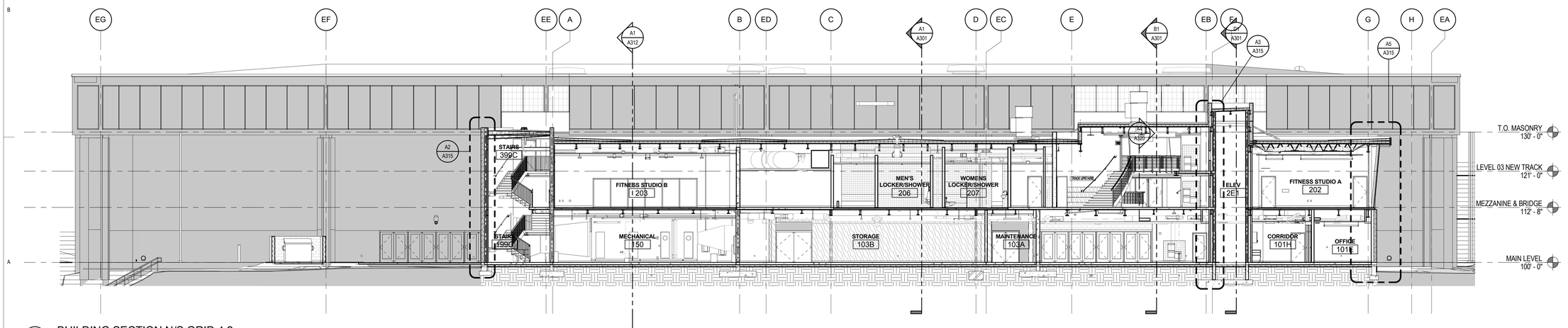
A301




C1 BUILDING SECTION N/S GRID 2.8

SCALE: 1" = 10'-0"

0' 6" 1' 2'




A1 BUILDING SECTION N/S GRID 4.2

SCALE: 1" = 10'-0"

0' 6" 1' 2'

10/3/2012 3:16:46 PM

VCBO
ARCHITECTURE
VALENTINER
CRANE
BRUNJES
ONYON

LICENSED ARCHITECT
No. 13392
BRENT R. TIPPETS
10-2-12
STATE OF UTAH

VCBO ARCHITECTURE
524 SOUTH 600 EAST
SALT LAKE CITY, UT 84102
Phone: (801) 575-8800
Fax: (801) 531-9850
WWW: www.vcbo.com

DFCM CODE COMPLIANCE STAMP

# Student Activity Center

Stromberg Addition - BID SET

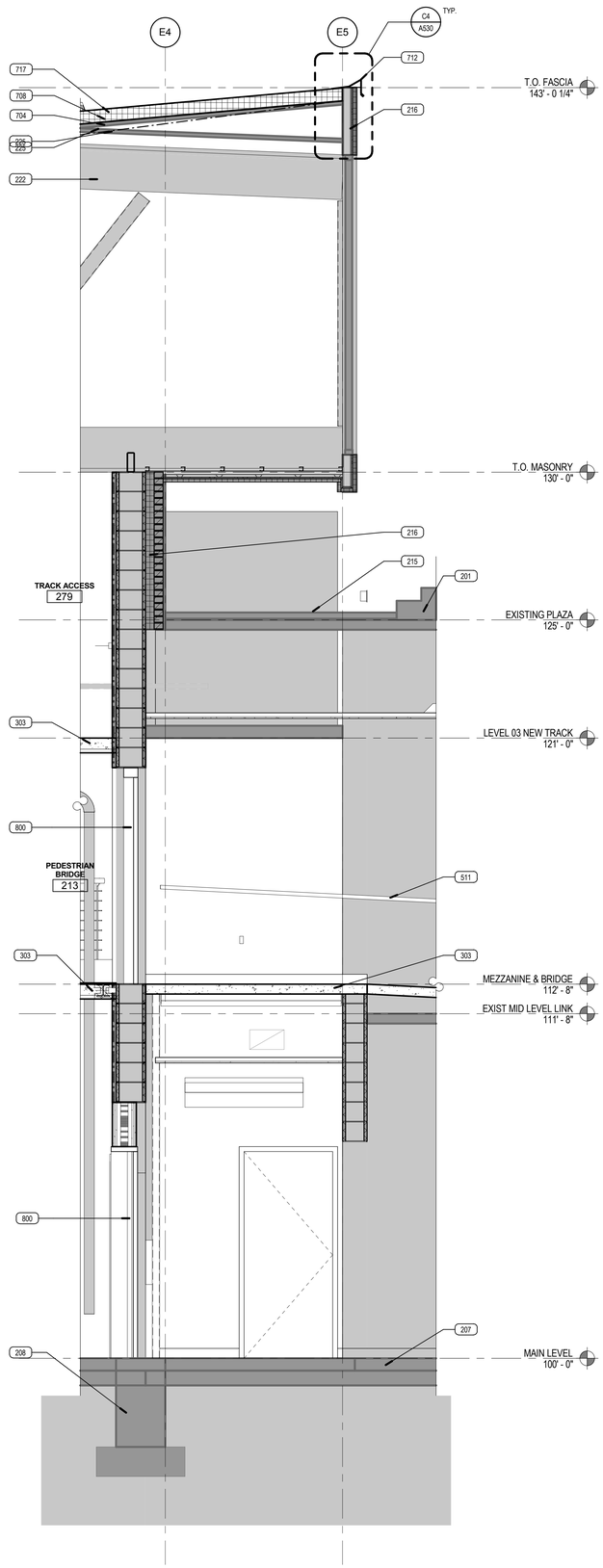
Weber State University
3750 Harrison Blvd. Ogden, UT 84408

| Rev # | Date | Description |
|---|---|---|

Job # 12475
CAD File
Drawn Author Checked Checker
Date 10.03.2012
Owner # DFCM #12031810

OVERALL
NORTH-SOUTH
BUILDING SECTIONS

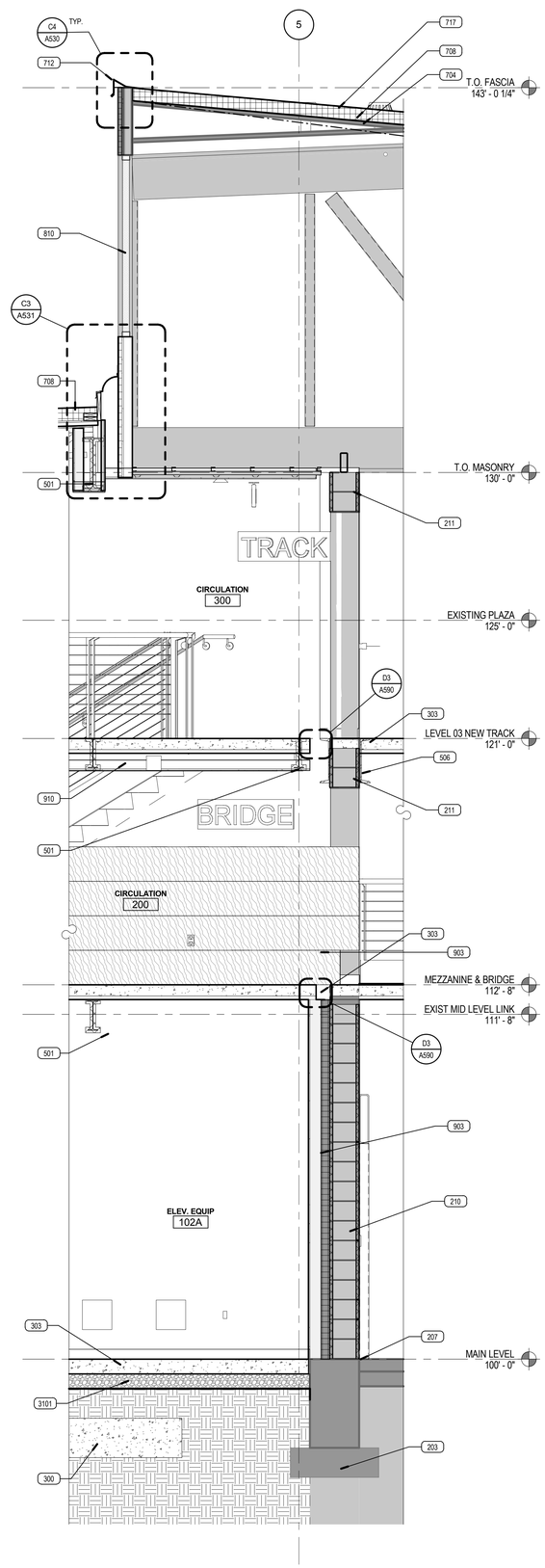
A302




A1 WS EAST ARENA GRID E.6

SCALE: 1/2" = 1'-0"

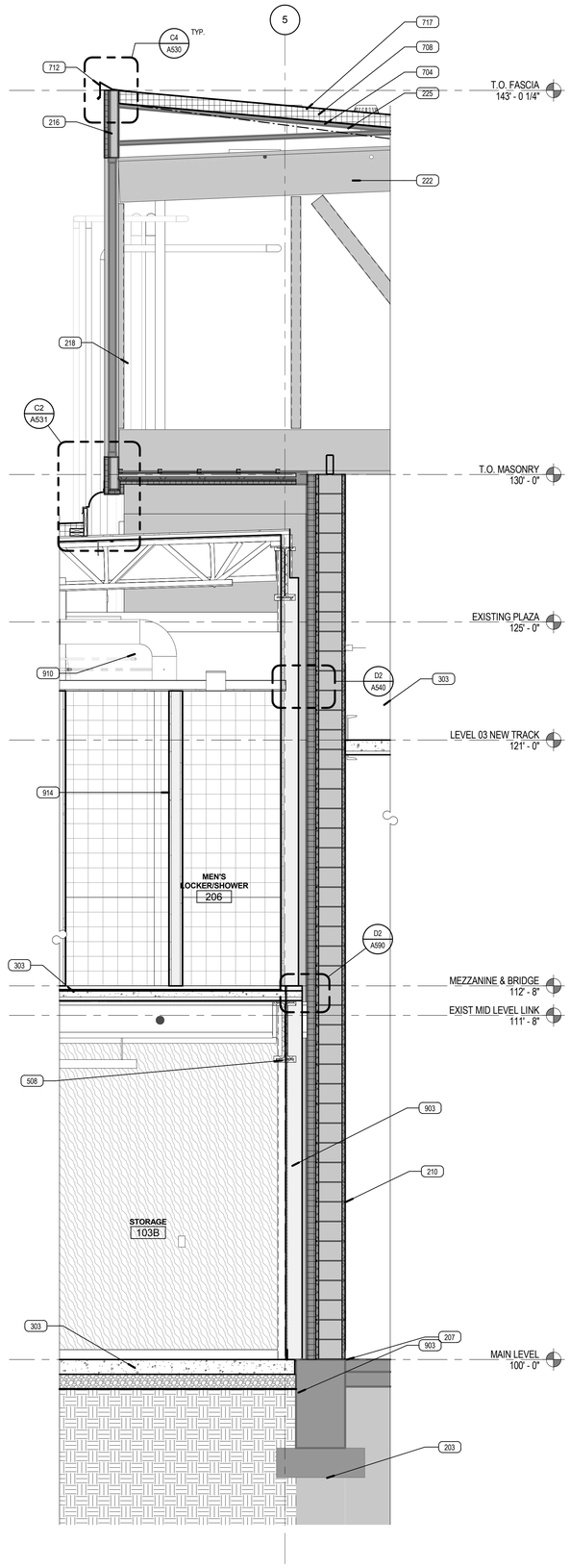
0' 1' 2' 4'




A3 WS ADDITION / ARENA GRID E.6

SCALE: 1/2" = 1'-0"

0' 1' 2' 4'




A5 WS ADDITION / ARENA GRID C.6

SCALE: 1/2" = 1'-0"

0' 1' 2' 4'

## KEYED NOTES

| | |
|---|---|
| 201 | EXG CONCRETE CURB AND GUTTER |
| 203 | EXG CONCRETE RETAINING WALL & FTGS |
| 207 | EXG CONCRETE SLAB |
| 208 | EXG CONCRETE FOOTING/ FOUNDATION |
| 210 | EXG MASONRY WALL |
| 211 | EXG CMU WALL |
| 215 | EXG CONCRETE PAVER SYSTEM |
| 216 | EXG WALL |
| 218 | EXG KALWALL WINDOW SYSTEM |
| 222 | EXG STRUCTURE |
| 225 | EXG ROOF DECK |
| 300 | REINFORCED CONCRETE FOOTING |
| 303 | REINFORCED CONCRETE SLAB |
| 501 | STEEL BEAM PAINTED WHERE EXPOSED |
| 506 | STEEL CHANNEL PAINTED WHERE EXPOSED |
| 508 | STEEL GIRDER PAINTED WHERE EXPOSED |
| 511 | 1 1/2" DIA. STEEL PIPE RAIL PAINTED U.N.O. |
| 704 | VAPOR BARRIER |
| 708 | R-30 ROOF RIGID INSULATION BOARD SYSTEM |
| 712 | PRE-FINISHED CONT. METAL CAP & CLEAT OVER |
| 717 | WHITE SINGLE PLY MEMBRANE ROOFING SYSTEM |
| 800 | DOOR & FRAME |
| 810 | TRANSLUCENT PANEL SYSTEM, MATCH EXISTING |
| 903 | 6" METAL STUD FRAMING |
| 910 | SUSPENDED GYP. BD. CEILING SYSTEM |
| 914 | CERAMIC WALL TILE |
| 3101 | FREE DRAINING GRAVEL BASE |

VCBO
ARCHITECTURE
VALENTINER
CRANE
BRUNJES
ONYON

LICENSED ARCHITECT
No. 13392
BRENT R. TIPPETS
10-2-12
STATE OF UTAH

VCBO ARCHITECTURE
524 SOUTH 600 EAST
SALT LAKE CITY, UT 84102
Phone: (801) 575-8800
Fax: (801) 531-9850
www: www.vcbo.com

DFCM CODE COMPLIANCE STAMP

# Student Activity Center
## Stromberg Addition - BID SET
Weber State University
3750 Harrison Blvd. Ogden, UT 84408

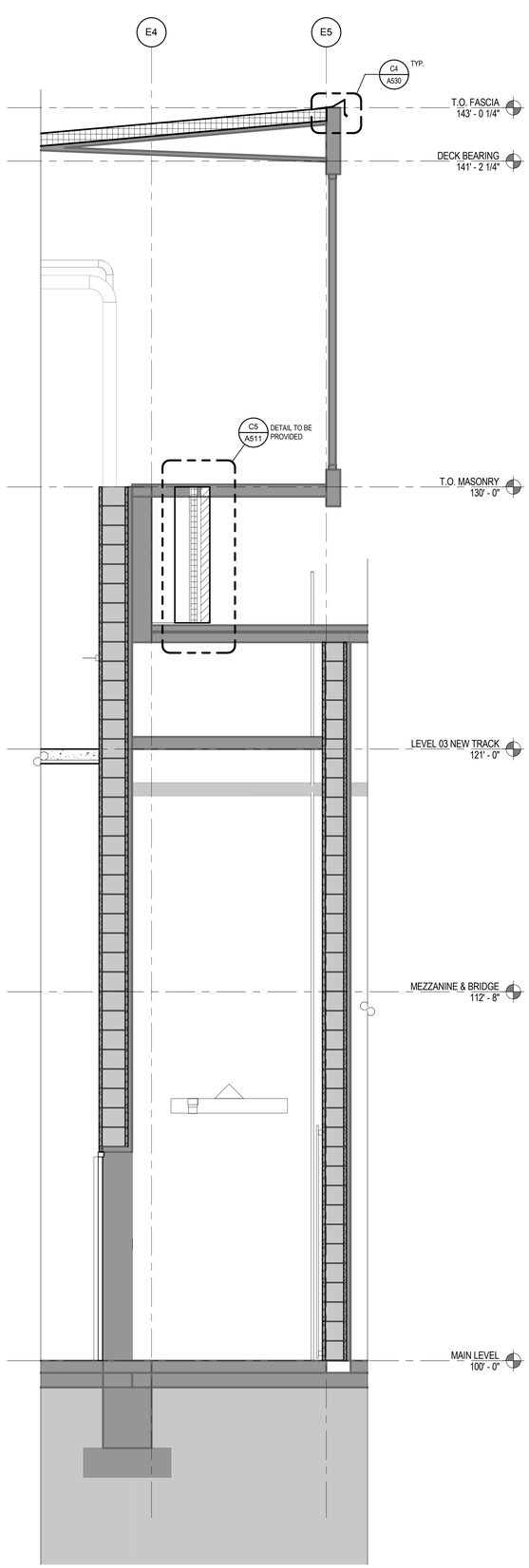
| Rev # | Date | Description |
|---|---|---|

Job # 12475
CAD File
Drawn Author Checked Checker
Date 10.03.2012
Owner # DFCM #12031810

WALL SECTIONS

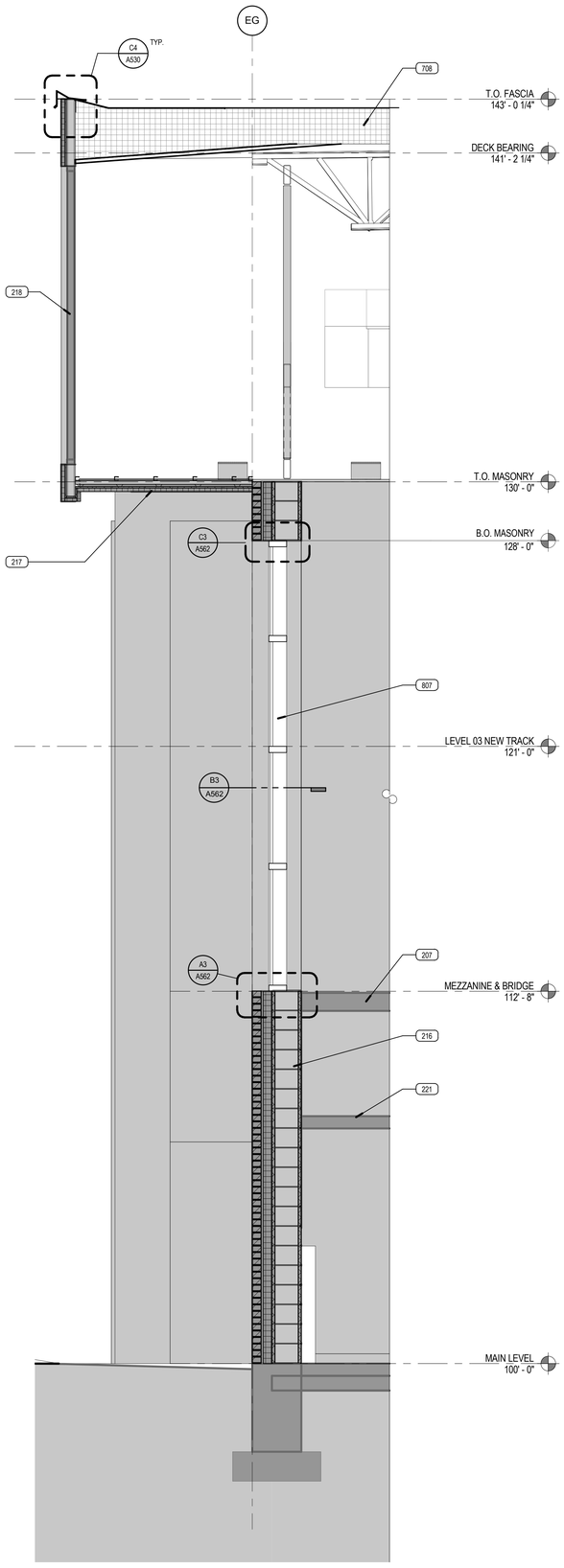
A311

10/3/2012 3:16:55 PM



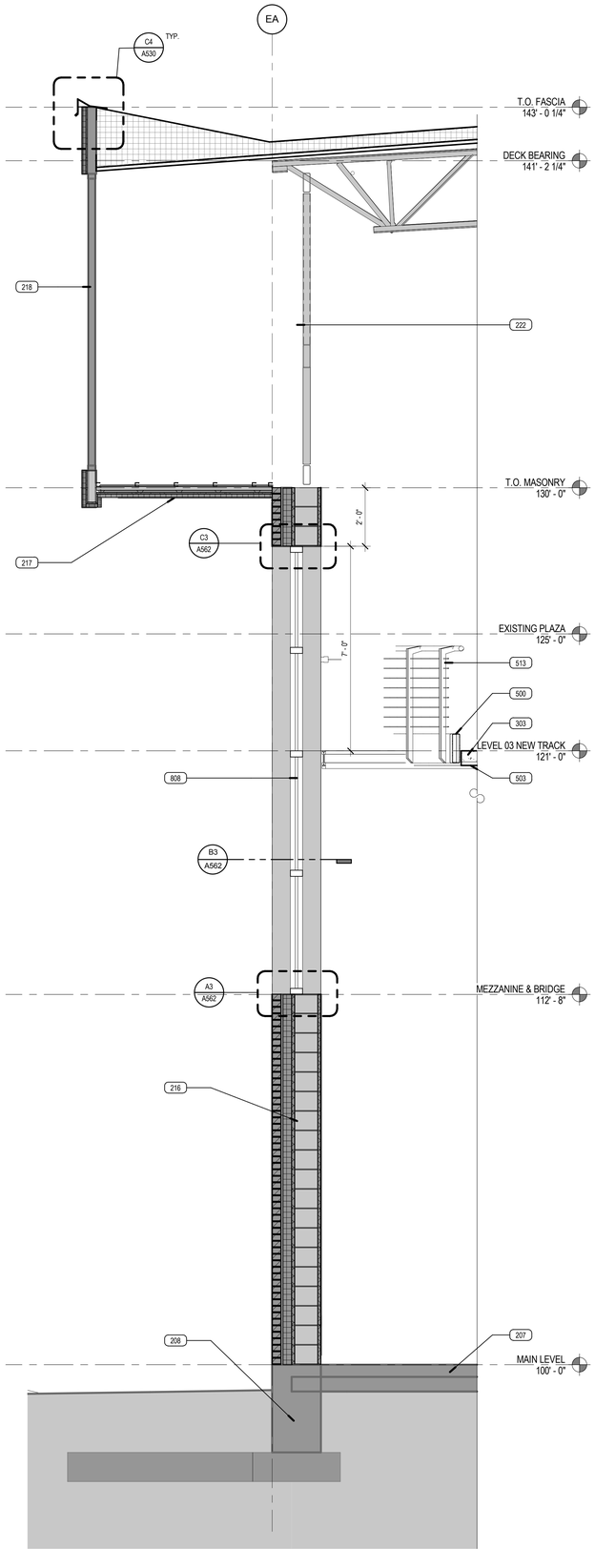

A1 WS ARENA EAST GRID EE.3

SCALE: 1/2" = 1'-0"




A2 WS ARENA NORTH GRID E3.8

SCALE: 1/2" = 1'-0"




A4 WS ARENA SOUTH GRID E2.9

SCALE: 1/2" = 1'-0"

## KEYED NOTES

| | |
|---|---|
| 207 | EXG CONCRETE SLAB |
| 208 | EXG CONCRETE FOOTING/ FOUNDATION |
| 216 | EXG WALL |
| 217 | EXG SOFFIT |
| 218 | EXG KALWALL WINDOW SYSTEM |
| 221 | EXG CEILING |
| 222 | EXG STRUCTURE |
| 303 | REINFORCED CONCRETE SLAB |
| 500 | STEEL TUBE PAINTED WHERE EXPOSED |
| 503 | STEEL DECK PAINTED WHERE EXPOSED |
| 513 | DECORATIVE RAILING WITH 1/2" GLAZING |
| 708 | R-30 ROOF RIGID INSULATION BOARD SYSTEM |
| 807 | CURTAINWALL SYSTEM |
| 808 | STOREFRONT SYSTEM |

VCBO
ARCHITECTURE
VALENTINER
CRANE
BRUNJES
ONYON

LICENSED ARCHITECT
STATE OF UTAH
No. 13392
BRENT R.
TIPPETS
10-2-12

VCBO ARCHITECTURE
524 SOUTH 600 EAST
SALT LAKE CITY, UT 84102
Phone: (801) 575-8800
Fax: (801) 531-9850
WWW: www.vcbo.com

DFCM CODE COMPLIANCE STAMP

# Student Activity Center
## Stromberg Addition - BID SET
Weber State University
3750 Harrison Blvd. Ogden, UT 84408

| Rev # | Date | Description |
|---|---|---|

Job # 12475
CAD File
Drawn Author Checked Checker
Date 10.03.2012
Owner # DFCM #12031810

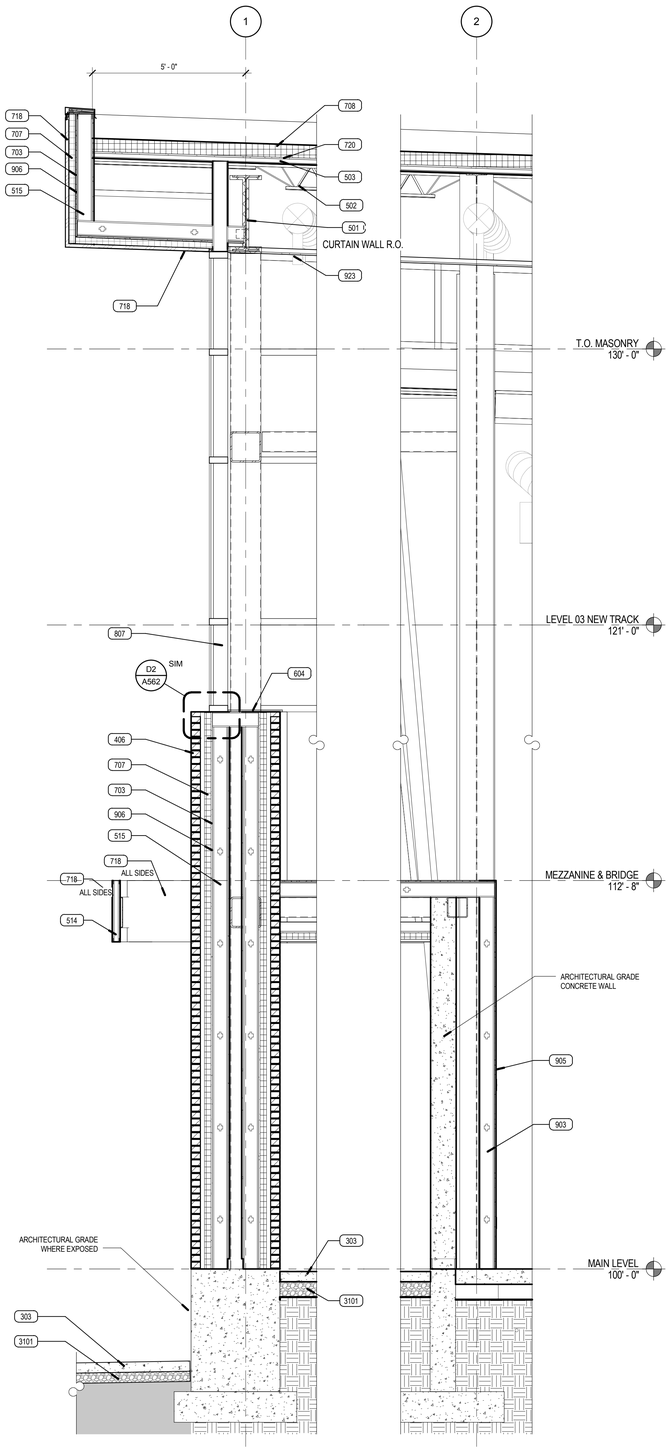
WALL SECTIONS

A312

10/3/2012 3:17:02 PM

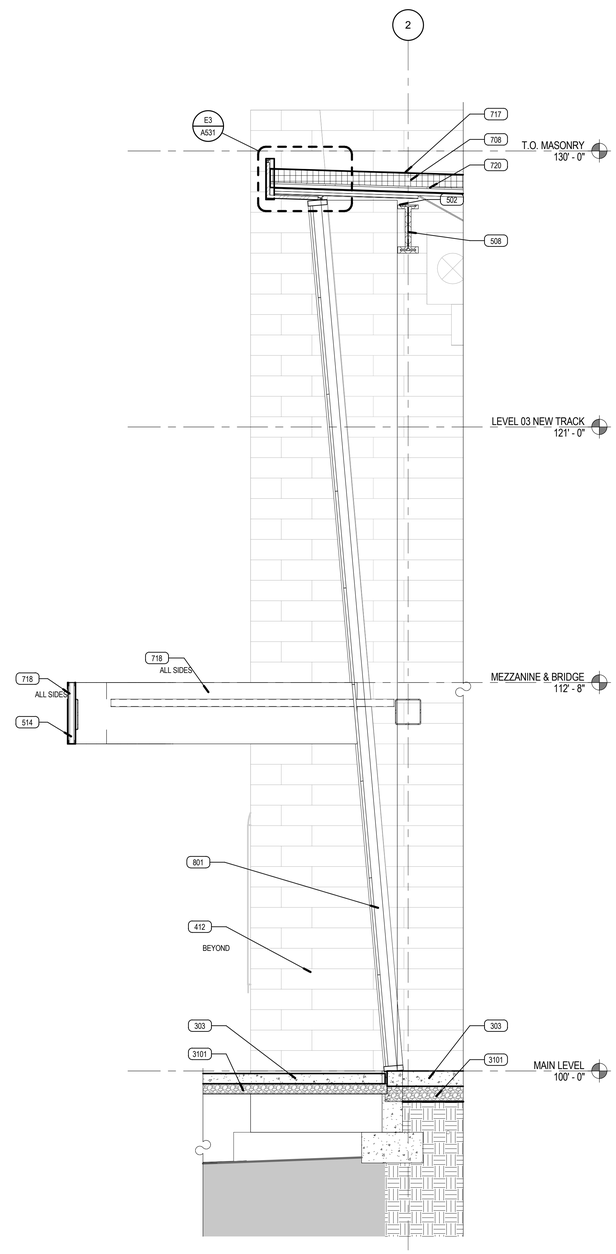
## KEYED NOTES

| | |
|---|---|
| 300 | REINFORCED CONCRETE FOOTING |
| 303 | REINFORCED CONCRETE SLAB |
| 304 | THICKENED REINFORCED SLAB |
| 403 | 8"X8"X16" STANDARD INTERGRAL COLOR CMU |
| 406 | BRICK VENEER SYSTEM |
| 412 | STONE CLADDING SYSTEM |
| 501 | STEEL BEAM PAINTED WHERE EXPOSED |
| 502 | STEEL JOIST PAINTED WHERE EXPOSED |
| 503 | STEEL DECK PAINTED WHERE EXPOSED |
| 508 | STEEL GIRDER PAINTED WHERE EXPOSED |
| 514 | 2 1/2" COLD ROLLED METAL STUDS |
| 515 | 6" COLD ROLLED METAL STUDS |
| 604 | SOLID SURFACE SILL |
| 703 | AIR & MOISTURE BARRIER |
| 707 | EXTERIOR CONTINUOUS WALL INSULATION BOARD SYSTEM |
| 708 | R-30 ROOF RIGID INSULATION BOARD SYSTEM |
| 717 | WHITE SINGLE PLY MEMBRANE ROOFING SYSTEM |
| 718 | PREFINISHED EXTERIOR COMPOSITE METAL PANEL SYSTEM |
| 720 | ROOF GYPSUM SUBSTRATE BOARD |
| 721 | SPRAY APPLIED INSULATION |
| 801 | WINDOW SYSTEM |
| 807 | CURTAINWALL SYSTEM |
| 808 | STOREFRONT SYSTEM |
| 903 | 6" METAL STUD FRAMING |
| 905 | 5/8" GYP. BD. PAINTED WHERE EXPOSED |
| 906 | 5/8" GYP. SHEATHING |
| 909 | SUSPENDED ACOUSTICAL TILE CEILING |
| 923 | METAL CEILING SYSTEM |
| 3101 | FREE DRAINING GRAVEL BASE |



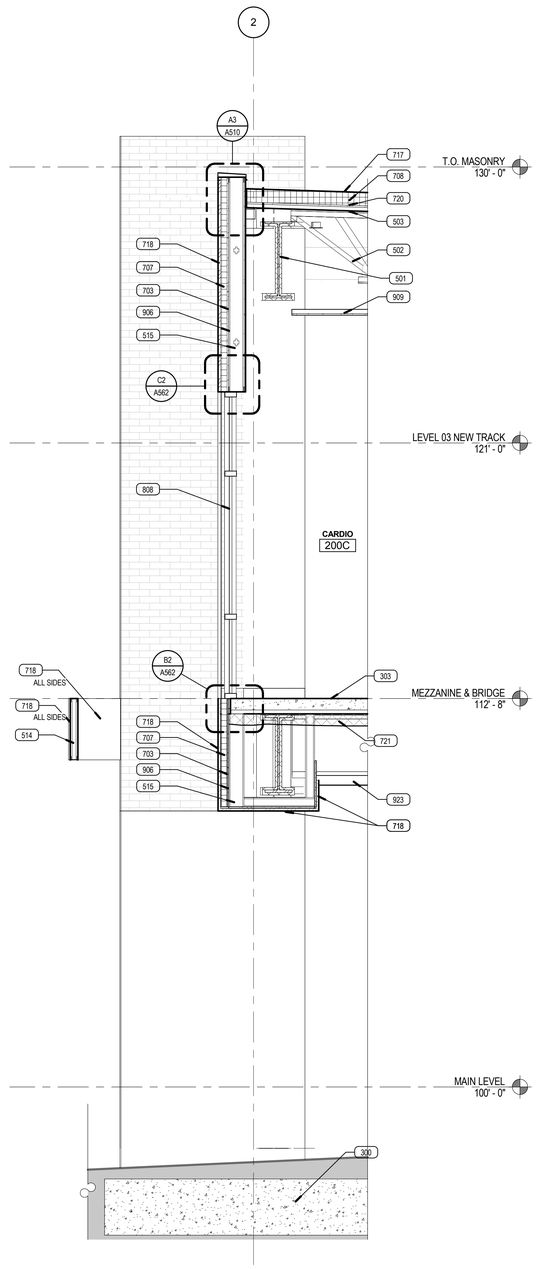

A1 WS ADDITION WEST GRID F.2

SCALE: 1/2" = 1'-0"



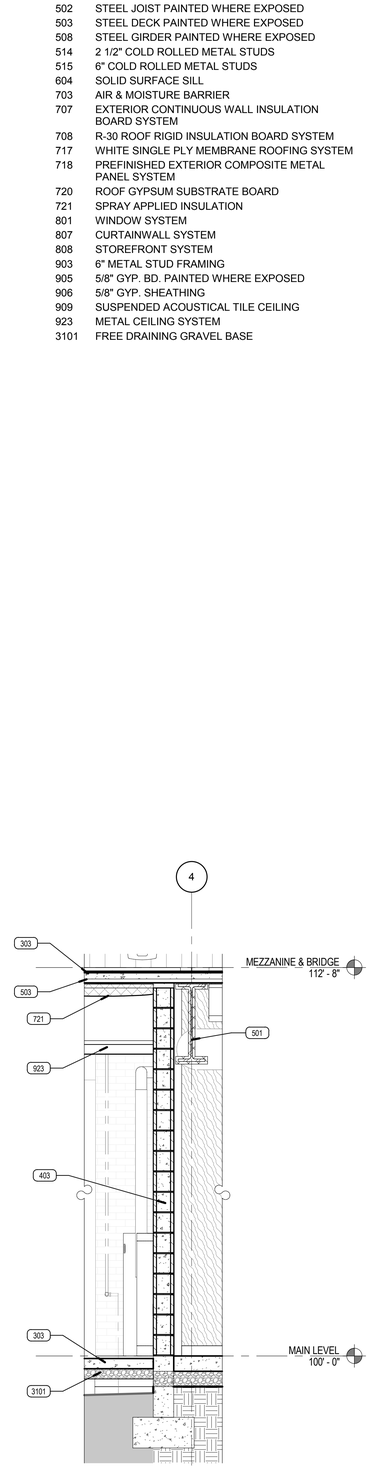

A3 WS ADDITION WEST GRID E.6

SCALE: 1/2" = 1'-0"




A5 WS ADDITION WEST GRID C.6

SCALE: 1/2" = 1'-0"




A6 WS ADDITION WEST PARKING GRID C.6

SCALE: 1/2" = 1'-0"


VCBO ARCHITECTURE
524 SOUTH 600 EAST
SALT LAKE CITY, UT 84102
Phone: (801) 575-8800
Fax: (801) 531-9850
www: www.vcbo.com


DFCM CODE COMPLIANCE STAMP

# Student Activity Center
## Stromberg Addition - BID SET
Weber State University
3750 Harrison Blvd. Ogden, UT 84408

| Rev # | Date | Description |
|---|---|---|

Job # 12475
CAD File
Drawn Author Checked Checker
Date 10.03.2012
Owner # DFCM #12031810

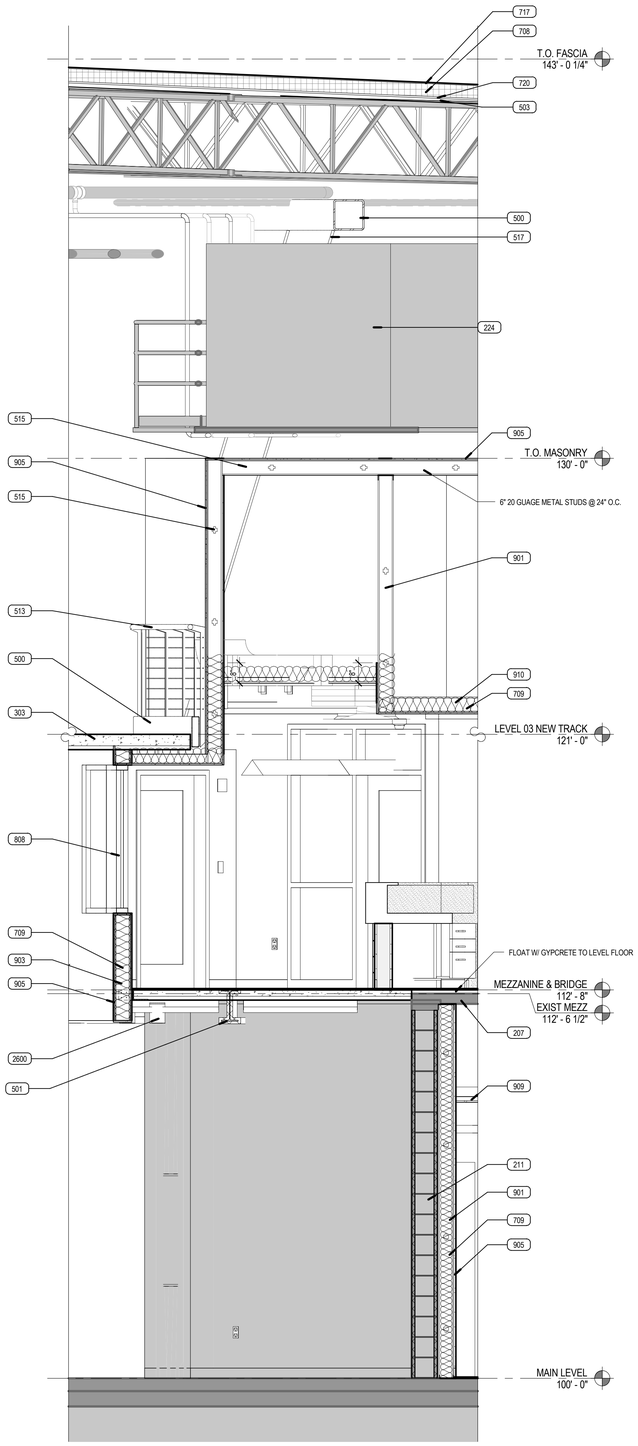
WALL SECTIONS

A313

10/3/2012 3:17:10 PM

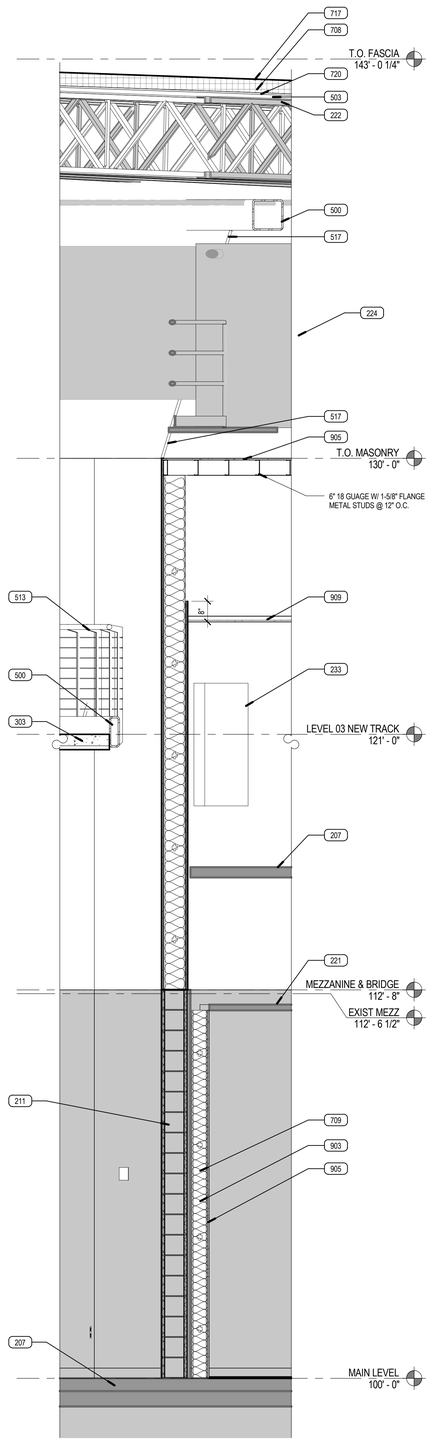
## KEYED NOTES

| | |
|---|---|
| 207 | EXG CONCRETE SLAB |
| 211 | EXG CMU WALL |
| 221 | EXG CEILING |
| 222 | EXG STRUCTURE |
| 224 | EXG MECHANICAL EQUIPMENT |
| 233 | EXG ELECTRICAL EQUIPMENT |
| 300 | REINFORCED CONCRETE FOOTING |
| 301 | REINFORCED CONCRETE FOUNDATION WALL |
| 303 | REINFORCED CONCRETE SLAB |
| 304 | THICKENED REINFORCED SLAB |
| 412 | STONE CLADDING SYSTEM |
| 500 | STEEL TUBE PAINTED WHERE EXPOSED |
| 501 | STEEL BEAM PAINTED WHERE EXPOSED |
| 503 | STEEL DECK PAINTED WHERE EXPOSED |
| 513 | DECORATIVE RAILING WITH 1/2" GLAZING |
| 515 | 6" COLD ROLLED METAL STUDS |
| 517 | STEEL ROD PAINTED WHERE EXPOSED |
| 708 | R-30 ROOF RIGID INSULATION BOARD SYSTEM |
| 709 | BATT INSULATION FULL THICKNESS |
| 717 | WHITE SINGLE PLY MEMBRANE ROOFING SYSTEM |
| 720 | ROOF GYPSUM SUBSTRATE BOARD |
| 807 | CURTAINWALL SYSTEM |
| 808 | STOREFRONT SYSTEM |
| 901 | 3-5/8" METAL STUD FRAMING |
| 903 | 6" METAL STUD FRAMING |
| 905 | 5/8" GYP. BD. PAINTED WHERE EXPOSED |
| 909 | SUSPENDED ACOUSTICAL TILE CEILING |
| 910 | SUSPENDED GYP. BD. CEILING SYSTEM |
| 923 | METAL CEILING SYSTEM |
| 2000 | MECHANICAL EQUIPMENT |
| 2600 | LIGHT FIXTURE |
| 3101 | FREE DRAINING GRAVEL BASE |



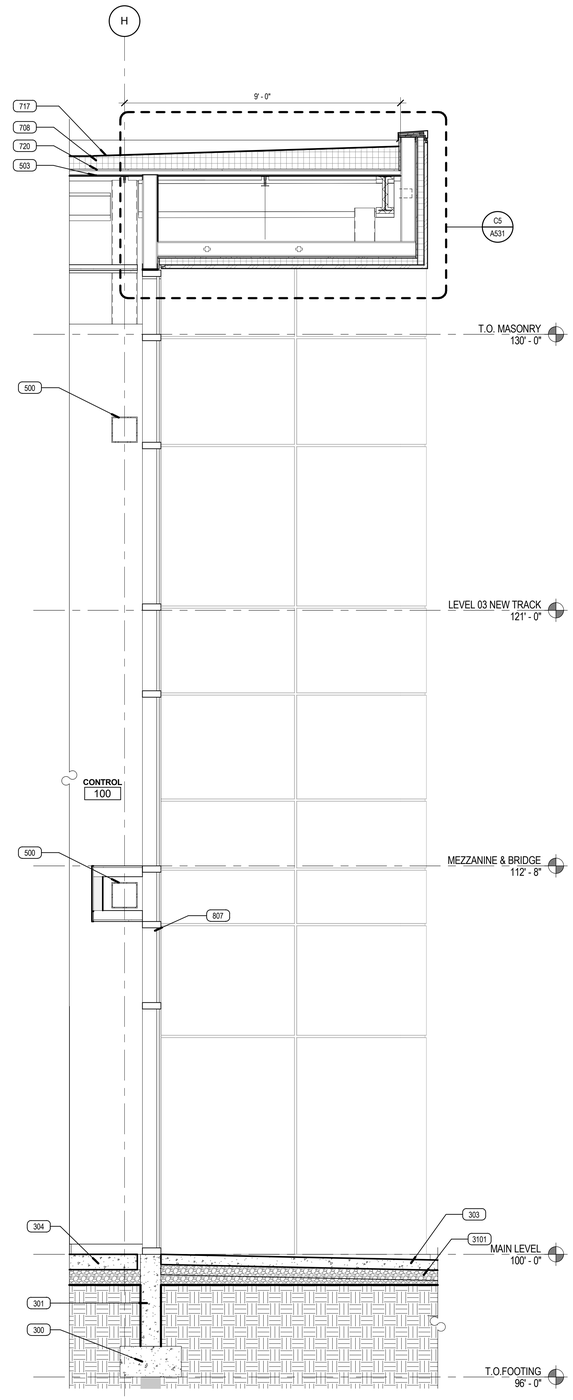

A1 WS ARENA WELLNESS

SCALE: 1/2" = 1'-0"



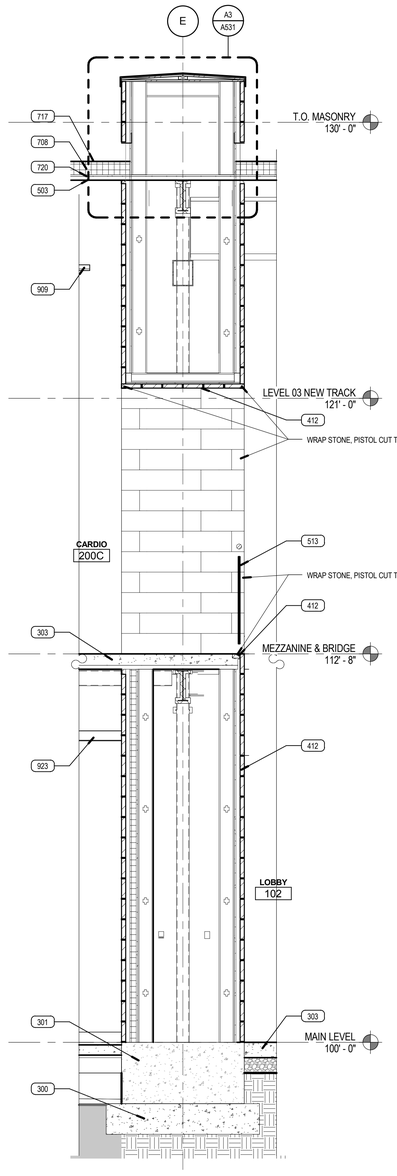

A3 WS ARENA STORAGE

SCALE: 1/2" = 1'-0"




A5 WS ADDITION SOUTH GRID 2.8

SCALE: 1/2" = 1'-0"




A6 WS ADDITION NORTH LOBBY GRID 2.8

SCALE: 1/2" = 1'-0"


VCBO
ARCHITECTURE
VALENTINER
CRANE
BRUNJES
ONYON

STATE OF UTAH
LICENSED ARCHITECT
No. 13392
BRENT R. TIPPETS
10-2-12

VCBO ARCHITECTURE
524 SOUTH 600 EAST
SALT LAKE CITY, UT 84102
Phone: (801) 575-8800
Fax: (801) 531-9850
WWW: www.vcbo.com


DFCM CODE COMPLIANCE STAMP

# Student Activity Center
## Stromberg Addition - BID SET
Weber State University
3750 Harrison Blvd. Ogden, UT 84408

| Rev # | Date | Description |
|---|---|---|

Job # 12475
CAD File
Drawn Author Checked Checker
Date 10.03.2012
Owner # DFCM #12031810

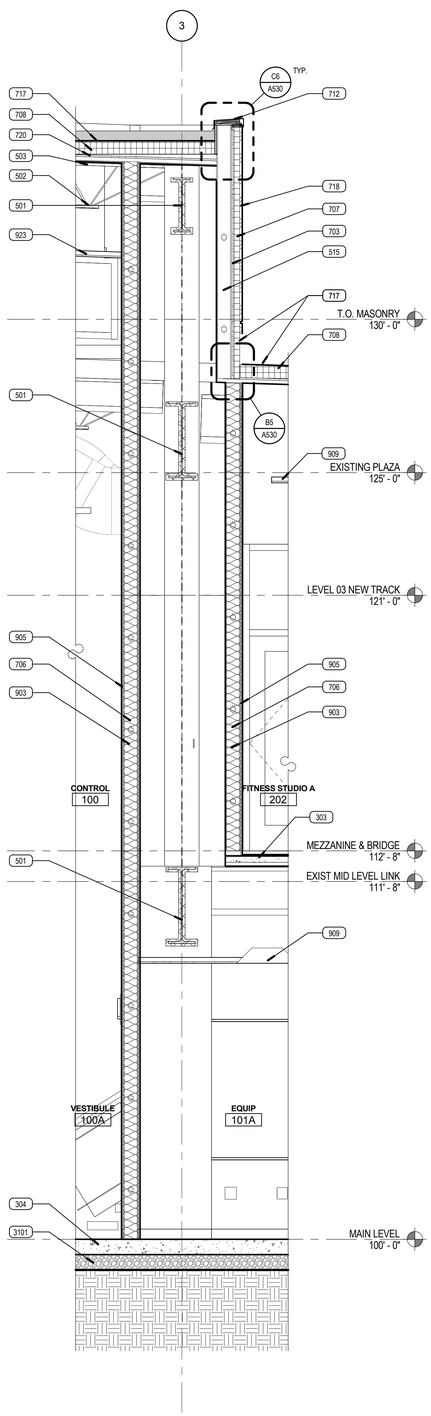
WALL SECTIONS

A314

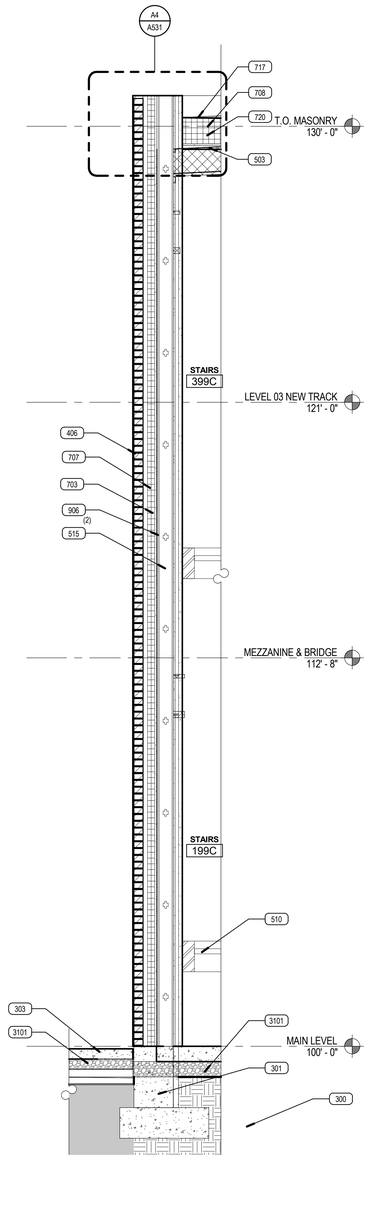
10/3/2012 3:17:21 PM

## KEYED NOTES

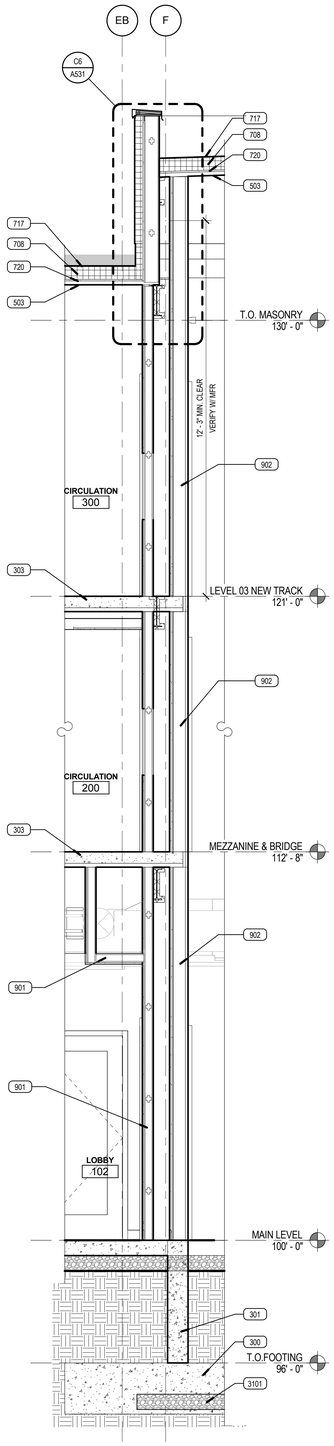
300 REINFORCED CONCRETE FOOTING
301 REINFORCED CONCRETE FOUNDATION WALL
303 REINFORCED CONCRETE SLAB
304 THICKENED REINFORCED SLAB
406 BRICK VENEER SYSTEM
501 STEEL BEAM PAINTED WHERE EXPOSED
502 STEEL JOIST PAINTED WHERE EXPOSED
503 STEEL DECK PAINTED WHERE EXPOSED
510 METAL STAIRS, SEE SECTIONS AND DETAILS
515 6" COLD ROLLED METAL STUDS
703 AIR & MOISTURE BARRIER
706 BATT INSULATION FULL THICKNESS W/ VAPOR BARRIER
707 EXTERIOR CONTINUOUS WALL INSULATION BOARD SYSTEM
708 R-30 ROOF RIGID INSULATION BOARD SYSTEM
712 PRE-FINISHED CONT. METAL CAP & CLEAT OVER
717 WHITE SINGLE PLY MEMBRANE ROOFING SYSTEM
718 PREFINISHED EXTERIOR COMPOSITE METAL PANEL SYSTEM
720 ROOF GYPSUM SUBSTRATE BOARD
807 CURTAINWALL SYSTEM
901 3-5/8" METAL STUD FRAMING
902 6" METAL CH STUD FRAMING
903 6" METAL STUD FRAMING
905 5/8" GYP. BD. PAINTED WHERE EXPOSED
906 5/8" GYP. SHEATHING
909 SUSPENDED ACOUSTICAL TILE CEILING
923 METAL CEILING SYSTEM
3101 FREE DRAINING GRAVEL BASE



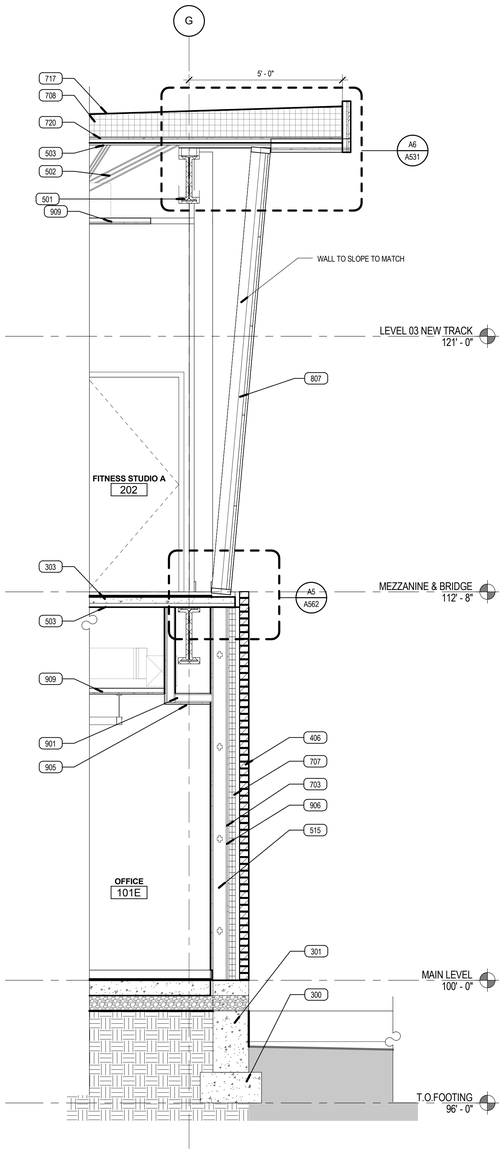

A1 WS ADDITION GRID 3/F.2
SCALE: 1/2" = 1'-0"
0' 1' 2' 4'




A2 WS ADDITION NORTH GRID 4.2
SCALE: 1/2" = 1'-0"
0' 1' 2' 4'




A3 WS ADDITION ELEVATOR GRID 4.2
SCALE: 1/2" = 1'-0"
0' 1' 2' 4'




A5 WS ADDITION SOUTH GRID 4.2
SCALE: 1/2" = 1'-0"
0' 1' 2' 4'


VCBO
ARCHITECTURE
VALENTINER
CRANE
BRUNJES
ONYON

REGISTERED ARCHITECT
No. 13392
BRENT R. TIPPETS
10-2-12
STATE OF UTAH

VCBO ARCHITECTURE
524 SOUTH 600 EAST
SALT LAKE CITY, UT 84102
Phone: (801) 575-8800
Fax: (801) 531-9850
WWW: www.vcbo.com


DFCM CODE COMPLIANCE STAMP

# Student Activity Center
## Stromberg Addition - BID SET
Weber State University
3750 Harrison Blvd. Ogden, UT 84408

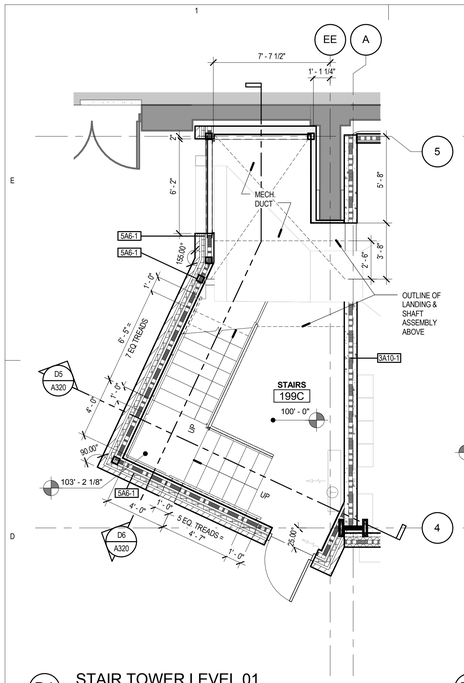
| Rev # | Date | Description |
|---|---|---|

Job # 12475
CAD File
Drawn Author Checked Checker
Date 10.03.2012
Owner # DFCM #12031810

WALL SECTIONS

A315

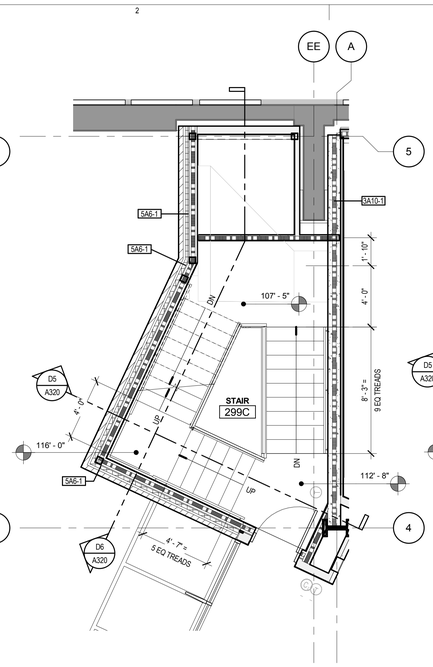
10/3/2012 3:17:28 PM




D1 STAIR TOWER LEVEL 01

SCALE: 1/4" = 1'-0"

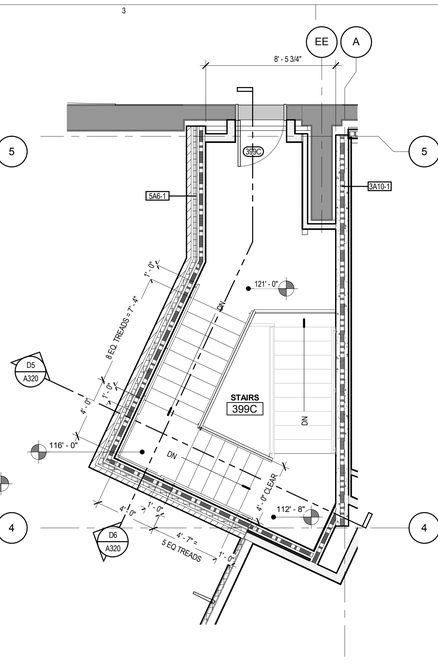
0' 2' 4' 8' 16'




D2 STAIR TOWER LEVEL 02

SCALE: 1/4" = 1'-0"

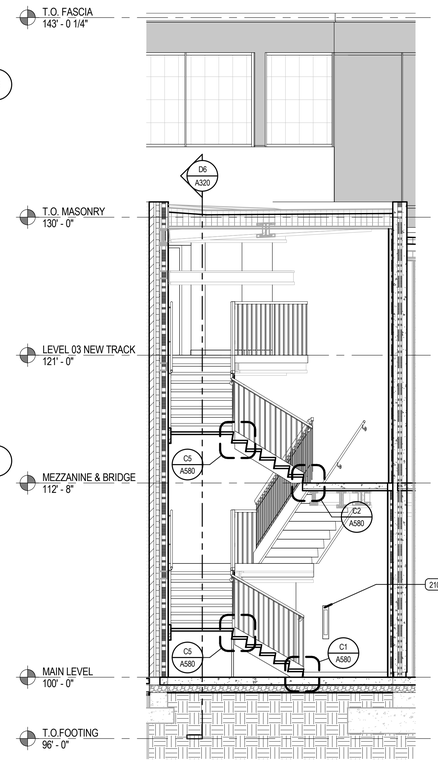
0' 2' 4' 8' 16'




D3 STAIR TOWER - LEVEL 03

SCALE: 1/4" = 1'-0"

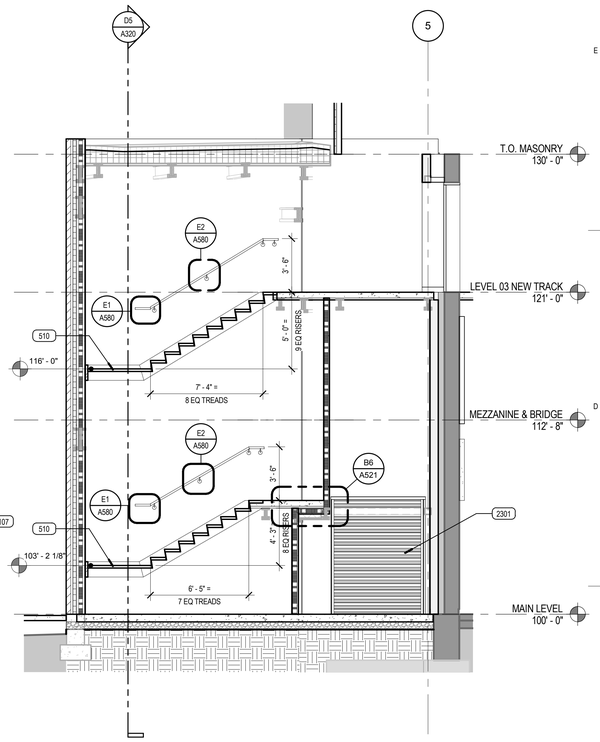
0' 2' 4' 8' 16'




D5 STAIR TOWER SECTION

SCALE: 1/4" = 1'-0"

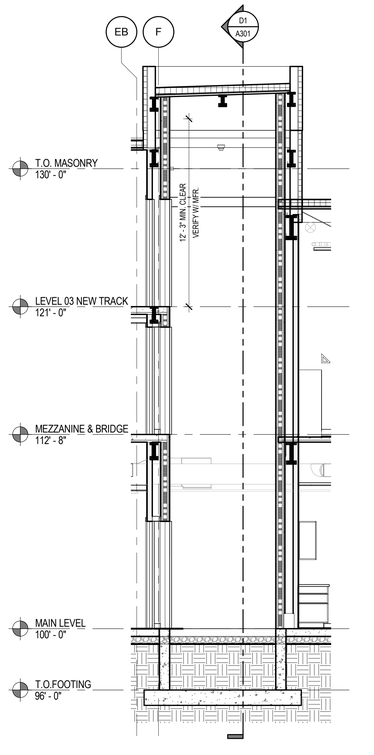
0' 2' 4' 8' 16'




D6 STAIR TOWER SECTION 2

SCALE: 1/4" = 1'-0"

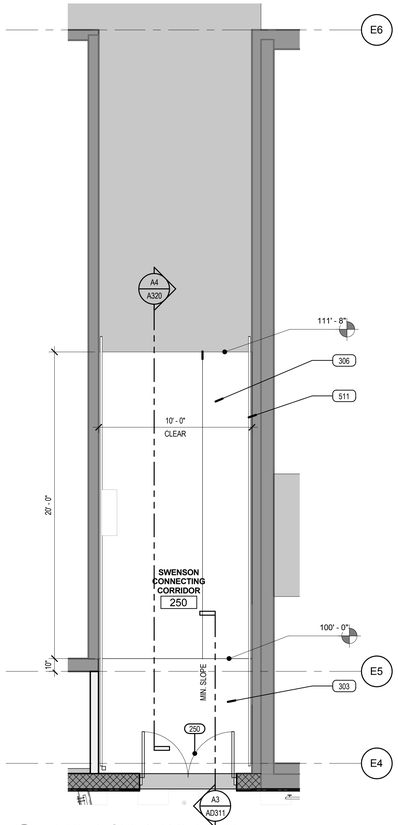
0' 2' 4' 8' 16'




A2 ELEVATOR SECTION

SCALE: 1/4" = 1'-0"

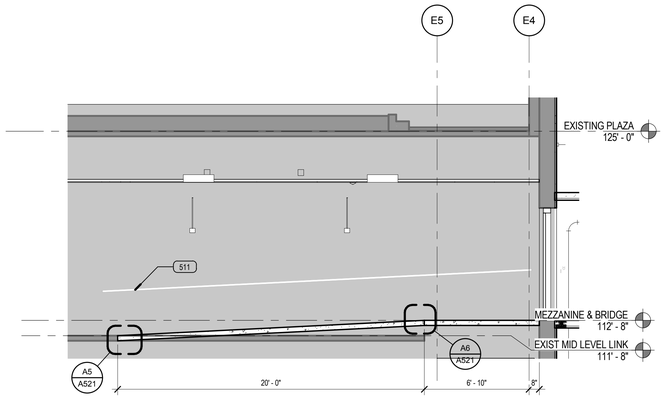
0' 2' 4' 8' 16'




A3 ENLARGED RAMP PLAN

SCALE: 1/4" = 1'-0"

0' 2' 4' 8' 16'




A4 Section 14

SCALE: 1/4" = 1'-0"

0' 2' 4' 8' 16'

VCBO
ARCHITECTURE
VALENTINER
CRANE
BRUNJES
ONYON

REGISTERED ARCHITECT
STATE OF UTAH
No. 4339
BRENT R. TIPPETS
10-2-12

VCBO ARCHITECTURE
524 SOUTH 600 EAST
SALT LAKE CITY, UT 84102
Phone: (801) 575-8800
Fax: (801) 531-9850
www: www.vcbo.com

DFCM CODE COMPLIANCE STAMP

# Student Activity Center
## Stromberg Addition - BID SET
Weber State University
3750 Harrison Blvd. Ogden, UT 84408

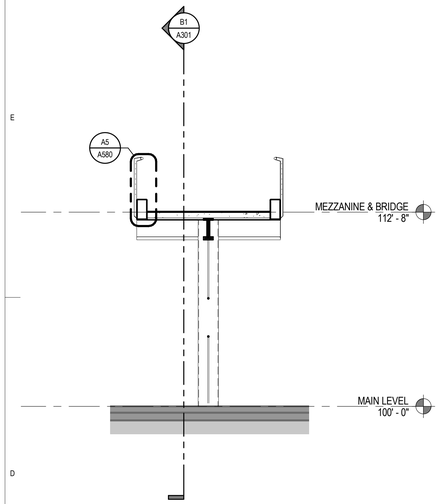
| Rev # | Date | Description |
|---|---|---|

Job # 12475
CAD File
Drawn Author Checked Checker
Date 10.03.2012
Owner # DFCM #12031810

STAIR PLANS, ELEVATIONS & SECTIONS

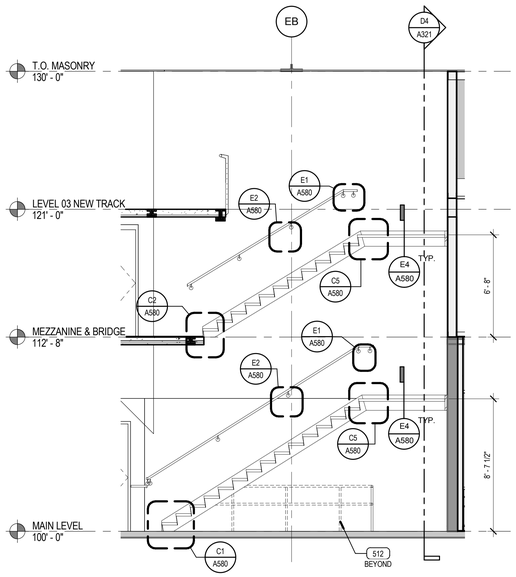
A320

10/3/2012 3:17:46 PM



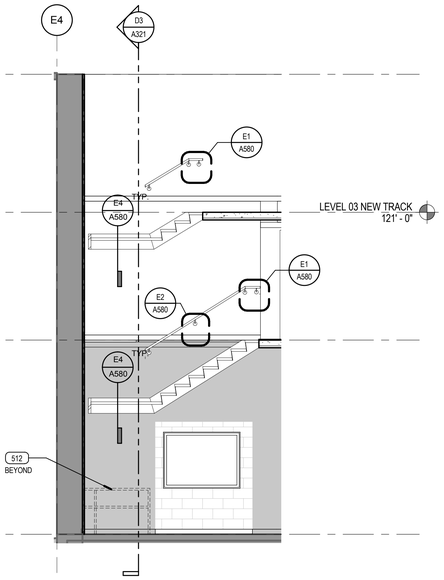

D1 BRIDGE SECTION

SCALE: 1/4" = 1'-0"



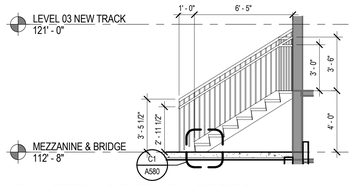

D3 EAST STAIR SECTION 1

SCALE: 1/4" = 1'-0"



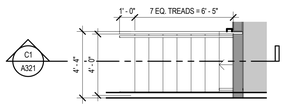

D4 EAST STAIR SECTION 2

SCALE: 1/4" = 1'-0"



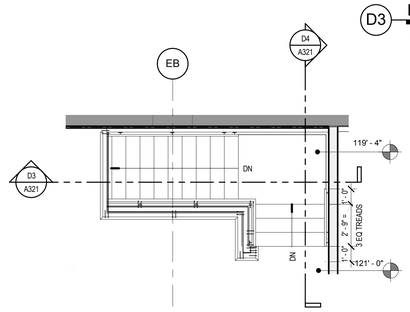

C1 STORAGE STAIR 1 SECTION

SCALE: 1/4" = 1'-0"



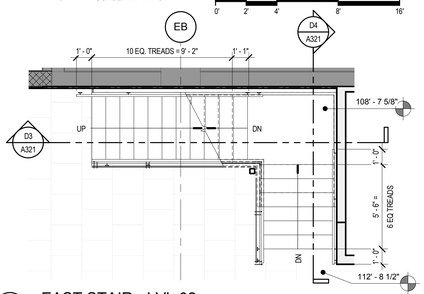

B1 STORAGE STAIR 1

SCALE: 1/4" = 1'-0"



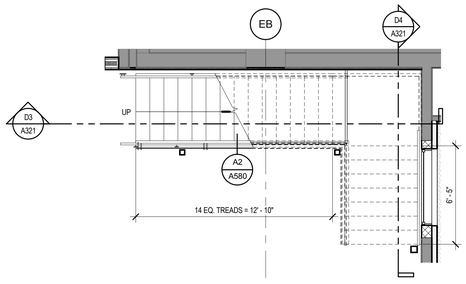

C3 EAST STAIR - LVL 03

SCALE: 1/4" = 1'-0"



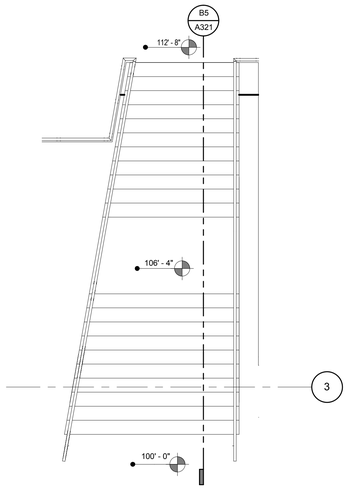

B3 EAST STAIR - LVL 02

SCALE: 1/4" = 1'-0"



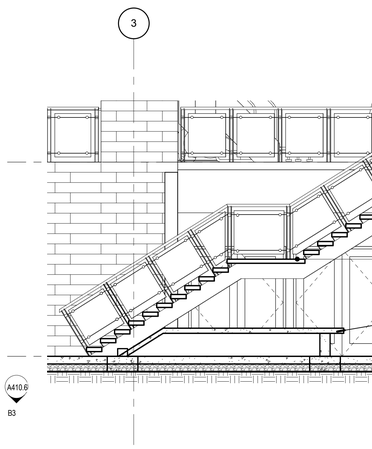

A3 EAST STAIR - LVL 01

SCALE: 1/4" = 1'-0"



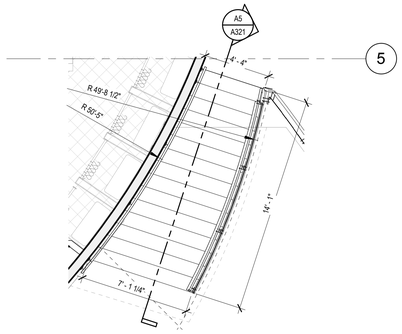

B4 ENLARGED GRAND STAIR PLAN

SCALE: 1/4" = 1'-0"



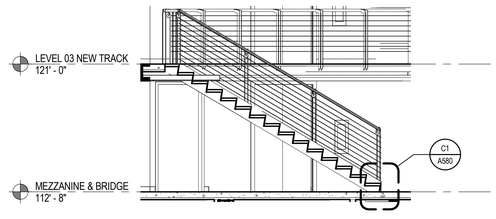

B5 GRAND STAIR SECTION

SCALE: 1/4" = 1'-0"




A4 ENLARGED PLAN - STAIR 2

SCALE: 1/4" = 1'-0"




A5 STAIR 2 SECTION

SCALE: 1/4" = 1'-0"

VCBO
ARCHITECTURE
VALENTINER
CRANE
BRUNJES
ONYON

VCBO ARCHITECTURE
524 SOUTH 600 EAST
SALT LAKE CITY, UT 84102
Phone: (801) 575-8800
Fax: (801) 531-9850
WWW: www.vcbo.com

DFCM CODE COMPLIANCE STAMP

# Student Activity Center
## Stromberg Addition - BID SET
Weber State University
3750 Harrison Blvd. Ogden, UT 84408

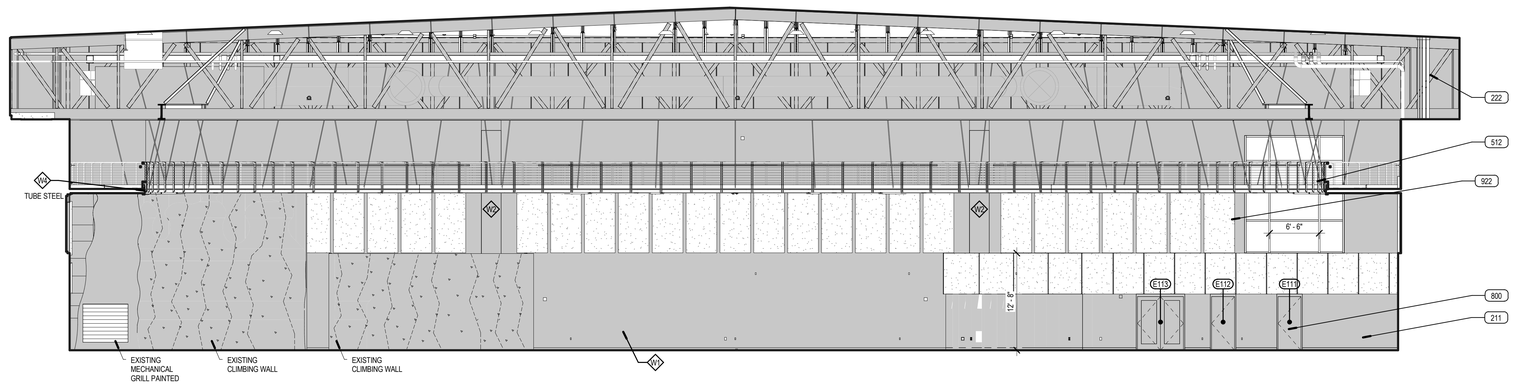
| Rev # | Date | Description |
|---|---|---|

Job # 12475
CAD File
Drawn Author Checked Checker
Date 10.03.2012
Owner # DFCM #12031810

STAIR PLANS, SECTIONS AND DETAILS

A321

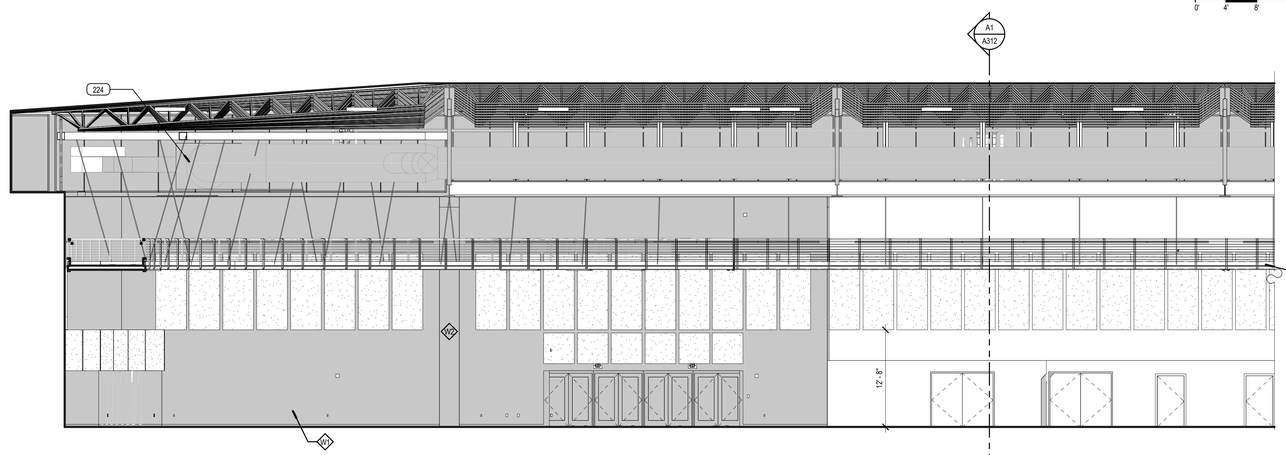
10/3/2012 3:17:59 PM




D5 ARENA NORTH ELEV.

SCALE: 1/8" = 1'-0"

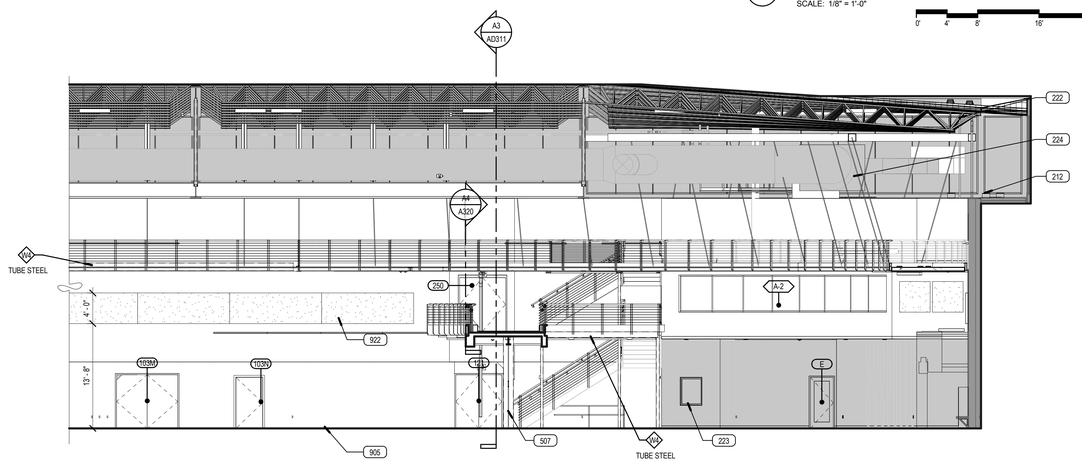
0' 4' 8' 16' 24'




C5 ARENA EAST ELEV.

SCALE: 1/8" = 1'-0"

0' 4' 8' 16' 24'




A5 ARENA EAST ELEV 2

SCALE: 1/8" = 1'-0"

0' 4' 8' 16' 24'

## KEYED NOTES

| | |
|---|---|
| 211 | EXG CMU WALL |
| 212 | EXG LIGHT FIXTURES |
| 222 | EXG STRUCTURE |
| 223 | EXG WINDOW |
| 224 | EXG MECHANICAL EQUIPMENT |
| 507 | STEEL COLUMN PAINTED WHERE EXPOSED |
| 512 | 1-1/2" STEEL PIPE GUARDRAIL PAINTED TYP. |
| 800 | DOOR & FRAME |
| 801 | WINDOW SYSTEM |
| 905 | 5/8" GYP. BD. PAINTED WHERE EXPOSED |
| 922 | ACOUSTICAL SOUND PANELS |

## MILLWORK LEGEND

GENERAL NOTE: WALL MOUNTED MECHANICAL AND ELECTRICAL DEVICES, SUCH AS, BUT NOT LIMITED TO: POWER, DATA, AV OUTLETS, HORNSTROBES, SWITCHES, CO2 SENSORS AND THERMOSTATS, ARE TO BE INSTALLED AS LOCATED ON THE ARCHITECTURAL ELEVATIONS, MECHANICAL AND ELECTRICAL CONTRACTORS ARE TO COORDINATE WITH STUD FRAMING PRIOR TO ROUGH-IN TO ENSURE PRECISE LOCATIONS. REFER TO MECHANICAL AND ELECTRICAL DRAWINGS AND SPECIFICATIOSN FOR TYPE AND QUANTITY. WHERE NOT INDICATED REFER TO AXXX/XX FOR MOUNTING LOCATION GUIDELINES.

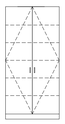
1. ALL MILLWORK DIMENSIONED FROM BASE TO TOP OF IDENTIFIED COUNTERTOP, TYP.
2. CABINET DEPTH IS MEASURED FROM THE WALL TO THE FACE OF THE DOOR OR DRAWER FRONT (WHERE APPLICABLE)
3. PROVIDE BASE AT ALL CABINET TOE SPACE, UNLESS NOTED OTHERWISE.
4. PROVIDE GROMMET WHERE "G" IS LAELED ON PLANS OR ELEVATIONS.
5. ALL COUNTERTOPS AT SINK LOCATIONS TO HAVE A 4" BACKSPLASH, UNLESS NOTED OTHERWISE, TO MATCH COUNTERTOP, ON BACK AND SIDE WALLS.
6. PROVIDE FILLER PANEL TO SEAL SIDES AND TOPS OF ALL CABINETS PLACED AT AN ANGLE TO ADJACENT WALL(S).
7. ALL MILLWORK TO BE FINISHED ON ENDS, TYP.
8. CONTRACTOR TO PROVIDE BLOCKING BEHIND ALL CABINETS, AS WELL AS ALL WALL MOUNTED ACCESSORIES, INCLUDING WHITE BOARDS, TACKBOARDS, TOILET AND URINAL PARTITIONS AND TOILET ROOM ACCESSORIES, ETC... NOTE: ONLY 2X WOOD BLOCKING IS ACCEPTABLE BEHIND MILLWORK AND TOILET ROOM PARTIITONS.
9. REFER TO SPECIFICATIONS FOR FINISH COLORS ON ALL MILLWORK AND CASEWORK.
10. GLASS ATTACHED TO THE MILLWORK CABINETS AND COUNTERS IS TO BE PROVIDED BY THE MILLWORK COTNRACTOR.

## ARCHITECTURAL MILLWORK KEY

EXAMPLE:

B 1 1 1 **
- ACCESSORY (IF NOTED)
- ONE ADJUSTABLE SHELF
- ONE DOOR
- ONE DRAWER
- BASE CABINET *

W 0 2 1 **
- ACCESSORY (IF NOTED)
- ONE ADJUSTABLE SHELF
- TWO DOORS
- ZERO DRAWERS
- WALL CABINET *



T 0 2 5 L
- LOCKS AT DOORS
- FIVE ADJUSTABLE SHELF
- TWO DOORS
- ZERO DRAWERS
- TALL CABINET *

*NOTE:

| | |
|---|---|
| SB | DENOTES SINK BASE CABINET |
| TW | DENOTES TALL WARDROBE CABINET |
| FMD | DENOTES FRAMED PERFORATED METAL PANEL DOOR |
| FGD | DENOTES FRAMED GLASS PANEL DOOR |

**NOTE:

| | |
|---|---|
| L | DENOTES LOCKS AT DOOR(S) / DRAWER(S) |
| F | DENOTES FILE DRAWER(S) |

CABINET MEASURMENTS SHOWN ARE ACTUAL SIZES, BASE CABINET HEIGHTS ALLOW FOR A COUNTERTOP 1 1/2" THICK CABINETS ARE MEASURED FROM THE BACK TO THE FACE OF THE DOOR OR DRAWER FRONT (WHERE APPLICABLE).
ALL CABINET INTERIORS, WHETHER CONCELED BEHIND DOORS OR OPEN, ARE STANDARD MELAMINE LAMINATE AS PER SPECIFICATIONS.

VCBO
ARCHITECTURE
VALENTINER
CRANE
BRUNJES
ONYON

VCBO ARCHITECTURE
524 SOUTH 600 EAST
SALT LAKE CITY, UT 84102
Phone: (801) 575-8800
Fax: (801) 531-9850
WWW: www.vcbo.com

LICENSED ARCHITECT
No. 13392
BRENT R. TIPPETS
10-2-12
STATE OF UTAH

DFCM CODE COMPLIANCE STAMP

# Student Activity Center
## Stromberg Addition - BID SET
Weber State University
3750 Harrison Blvd. Ogden, UT 84408

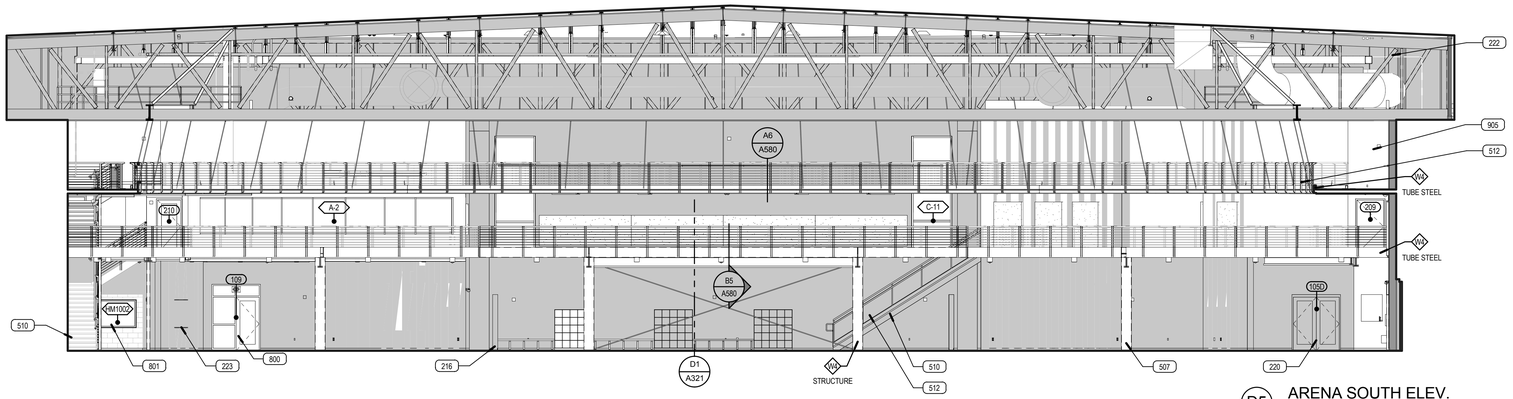
| Rev # | Date | Description |
|---|---|---|

Job # 12475
CAD File
Drawn Author Checked Checker
Date 10.03.2012
Owner # DFCM #12031810

LEVEL 01 INTERIOR ELEVATIONS

A410.1

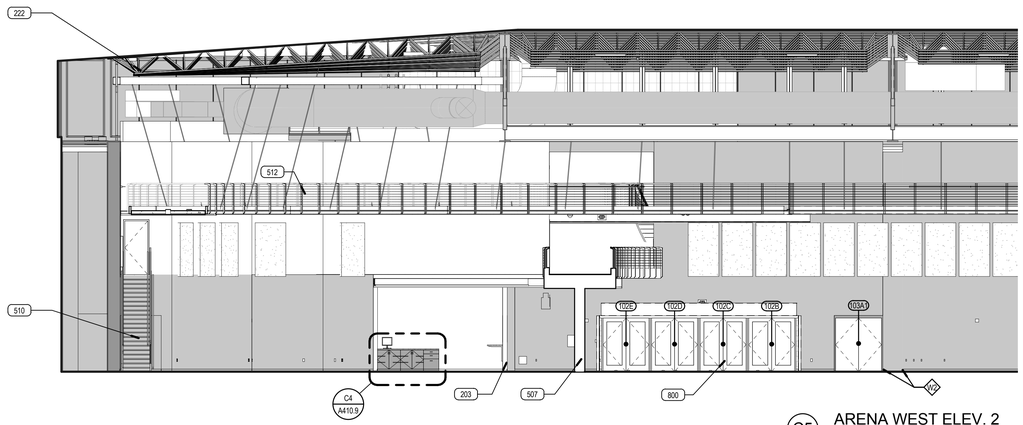
10/3/2012 3:18:41 PM




D5 ARENA SOUTH ELEV.

SCALE: 1/8" = 1'-0"

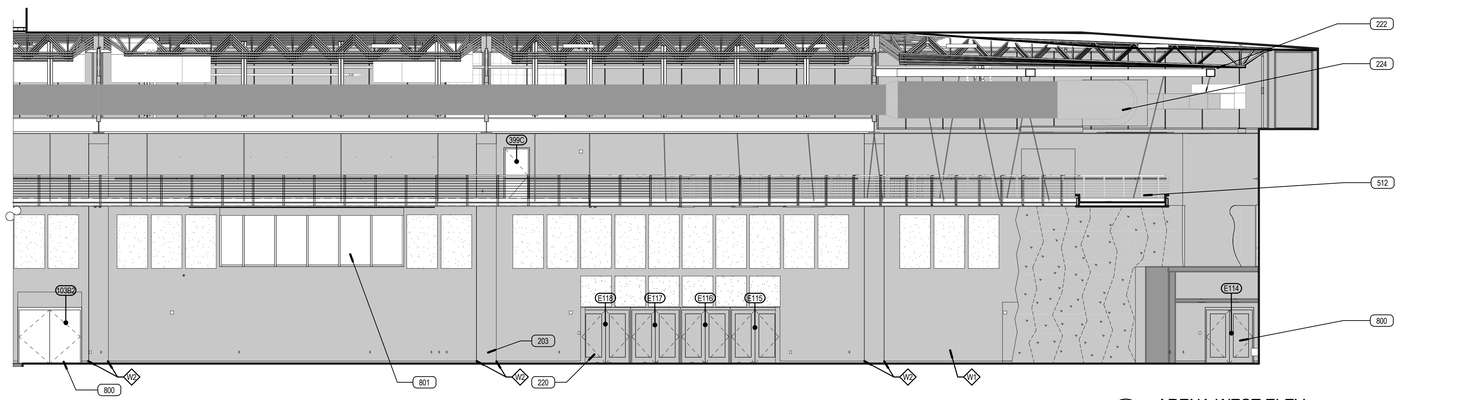
0' 4' 8' 16' 24'




C5 ARENA WEST ELEV. 2

SCALE: 1/8" = 1'-0"

0' 4' 8' 16' 24'




A5 ARENA WEST ELEV.

SCALE: 1/8" = 1'-0"

0' 4' 8' 16' 24'

## KEYED NOTES

| | |
|---|---|
| 203 | EXG CONCRETE RETAINING WALL & FTGS |
| 216 | EXG WALL |
| 220 | EXG DOOR |
| 222 | EXG STRUCTURE |
| 223 | EXG WINDOW |
| 224 | EXG MECHANICAL EQUIPMENT |
| 507 | STEEL COLUMN PAINTED WHERE EXPOSED |
| 510 | METAL STAIRS, SEE SECTIONS AND DETAILS |
| 512 | 1-1/2" STEEL PIPE GUARDRAIL PAINTED TYP. |
| 800 | DOOR & FRAME |
| 801 | WINDOW SYSTEM |
| 905 | 5/8" GYP. BD. PAINTED WHERE EXPOSED |

## MILLWORK LEGEND

GENERAL NOTE: WALL MOUNTED MECHANICAL AND ELECTRICAL DEVICES, SUCH AS, BUT NOT LIMITED TO: POWER, DATA, AV OUTLETS, HORNSTROBES, SWITCHES, CO2 SENSORS AND THERMOSTATS, ARE TO BE INSTALLED AS LOCATED ON THE ARCHITECTURAL ELEVATIONS. MECHANICAL AND ELECTRICAL CONTRACTORS ARE TO COORDINATE WITH STUD FRAMING PRIOR TO ROUGH-IN TO ENSURE PRECISE LOCATIONS. REFER TO MECHANICAL AND ELECTRICAL DRAWINGS AND SPECIFICATIOSN FOR TYPE AND QUANTITY. WHERE NOT INDICATED REFER TO AXXXXXX FOR MOUNTING LOCATION GUIDELINES.

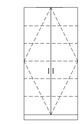
1. ALL MILLWORK DIMENSIONED FROM BASE TO TOP OF IDENTIFIED COUNTERTOP. TYP.
2. CABINET DEPTH IS MEASURED FROM THE WALL TO THE FACE OF THE DOOR OR DRAWER FRONT (WHERE APPLICABLE)
3. PROVIDE BASE AT ALL CABINET TOE SPACE, UNLESS NOTED OTHERWISE.
4. PROVIDE GROMMET WHERE "G" IS LAELED ON PLANS OR ELEVATIONS.
5. ALL COUNTERTOPS AT SINK LOCATIONS TO HAVE A 4" BACKSPLASH, UNLESS NOTED OTHERWISE, TO MATCH COUNTERTOP, ON BACK AND SIDE WALLS.
6. PROVIDE FILLER PANESL TO SEAL SIDES AND TOPS OF ALL CABINETS PLACED AT AN ANGLE TO ADJACENT WALL(S).
7. ALL MILLWORK TO BE FINISHED ON ENDS, TYP.
8. CONTRACTOR TO PROVIDE BLOCKING BEHIND ALL CABINETS, AS WELL AS ALL WALL MOUNTED ACCESSORIES, INCLUDING WHITE BOARDS, TACKBOARDS, TOILET AND URINAL PARTITIONS AND TOILET ROOM ACCESSORIES, ETC... NOTE: ONLY 2X WOOD BLOCKING IS ACCEPTABLE BEHIND MILLWORK AND TOILET ROOM PARTITIONS.
9. REFER TO SPECIFICATIONS FOR FINISH COLORS ON ALL MILLWORK AND CASEWORK.
10. GLASS ATTACHED TO THE MILLWORK CABINETS AND COUNTERS IS TO BE PROVIDED BY THE MILLWORK COTNRACTOR.

## ARCHITECTURAL MILLWORK KEY

EXAMPLE:

B 1 1 1 **
- ACCESSORY (IF NOTED)
- ONE ADJUSTABLE SHELF
- ONE DOOR
- ONE DRAWER
- BASE CABINET *

W 0 2 1 **
- ACCESSORY (IF NOTED)
- ONE ADJUSTABLE SHELF
- TWO DOORS
- ZERO DRAWERS
- WALL CABINET *



T 0 2 5 L
- LOCKS AT DOORS
- FIVE ADJUSTABLE SHELF
- TWO DOORS
- ZERO DRAWERS
- TALL CABINET *

*NOTE:

| | |
|---|---|
| SB | DENOTES SINK BASE CABINET |
| TW | DENOTES TALL WARDROBE CABINET |
| FMD | DENOTES FRAMED PERFORATED METAL PANEL DOOR |
| FGD | DENOTES FRAMED GLASS PANEL DOOR |

**NOTE:

| | |
|---|---|
| L | DENOTES LOCKS AT DOOR(S) / DRAWER(S) |
| F | DENOTES FILE DRAWER(S) |

CABINET MEASURMENTS SHOWN ARE ACTUAL SIZES, BASE CABINET HEIGHTS ALLOW FOR A COUNTERTOP 1 1/2" THICK CABINETS ARE MEASURED FROM THE BACK TO THE FACE OF THE DOOR OR DRAWER FRONT (WHERE APPLICABLE).
ALL CABINET INTERIORS, WHETHER CONCELED BEHIND DOORS OR OPEN, ARE STANDARD MELAMINE LAMINATE AS PER SPECIFICATIONS.

VCBO
ARCHITECTURE
VALENTINER
CRANE
BRUNJES
ONYON

VCBO ARCHITECTURE
524 SOUTH 600 EAST
SALT LAKE CITY, UT 84102
Phone: (801) 575-8800
Fax: (801) 531-9850
WWW: www.vcbo.com

DFCM CODE COMPLIANCE STAMP

# Student Activity Center
## Stromberg Addition - BID SET
Weber State University
3750 Harrison Blvd. Ogden, UT 84408

| Rev # | Date | Description |
|---|---|---|

Job # 12475
CAD File
Drawn Author Checked Checker
Date 10.03.2012
Owner # DFCM #12031810

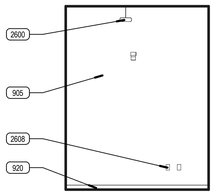
LEVEL 01 INTERIOR ELEVATIONS

A410.2

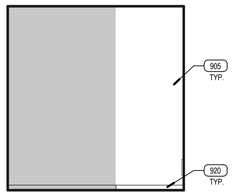
10/3/2012 3:19:17 PM

## KEYED NOTES

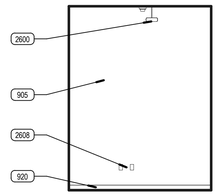
| | |
|---|---|
| 213 | EXG ELECTRIC PANEL |
| 216 | EXG WALL |
| 220 | EXG DOOR |
| 221 | EXG CEILING |
| 223 | EXG WINDOW |
| 228 | EXG PLUMBING FIXTURE |
| 521 | STEEL ANGLE BRACKET |
| 606 | WALL MOUNTED BASE CABINET WITH BLOCKING |
| 607 | WALL MOUNTED UPPER CABINET WITH BLOCKING |
| 610 | FREE STANDING STORAGE CUBBY CABINET |
| 611 | PLASTIC LAMINATE COUNTERTOP |
| 625 | CABINETRY DOOR |
| 800 | DOOR & FRAME |
| 801 | WINDOW SYSTEM |
| 905 | 5/8" GYP. BD. PAINTED WHERE EXPOSED |
| 920 | SCHEDULED BASE |
| 1013 | ROBE HOOK |
| 1031 | LCD SCREEN NIC |
| 1032 | TACKABLE WALL SURFACE |
| 1036 | BALL STORAGE |
| 1113 | MICROWAVE, NIC |
| 1114 | REFRIGERATOR, NIC |
| 1118 | ELECTRIC WASHER AND DRYER NIC |
| 2305 | MECHANICAL EQUIPMENT |
| 2600 | LIGHT FIXTURE |
| 2603 | ELECTRIC PANEL |
| 2608 | OUTLET |
| 2610 | ELECTRICAL EQUIPMENT |



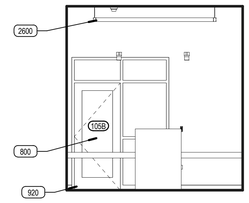

D1 OFFICE 105B NORTH ELEV.
SCALE: 1/4" = 1'-0"
0' 2' 4' 8' 16'



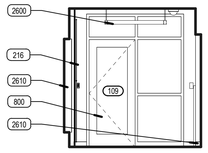

D2 OFFICE 105B EAST ELEV.
SCALE: 1/4" = 1'-0"
0' 2' 4' 8' 16'



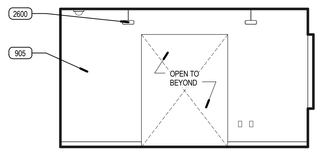

D4 OFFICE 105B SOUTH ELEV.
SCALE: 1/4" = 1'-0"
0' 2' 4' 8' 16'



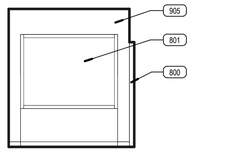

D6 OFFICE 105B WEST ELEV.
SCALE: 1/4" = 1'-0"
0' 2' 4' 8' 16'



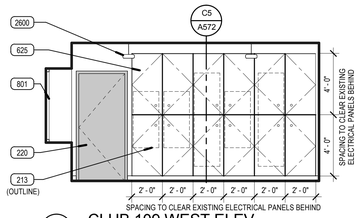

C1 CLUB 109 NORTH ELEV.
SCALE: 1/4" = 1'-0"
0' 2' 4' 8' 16'




C2 CLUB 109 EAST ELEV.
SCALE: 1/4" = 1'-0"
0' 2' 4' 8' 16'




C4 CLUB 109 SOUTH ELEV.
SCALE: 1/4" = 1'-0"
0' 2' 4' 8' 16'

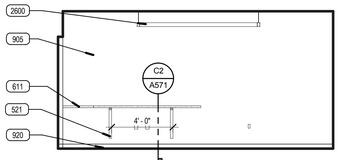



C5 CLUB 109 WEST ELEV.
SCALE: 1/4" = 1'-0"
0' 2' 4' 8' 16'

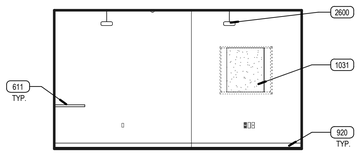
## MILLWORK LEGEND

GENERAL NOTE: WALL MOUNTED MECHANICAL AND ELECTRICAL DEVICES, SUCH AS, BUT NOT LIMITED TO; POWER, DATA, AV OUTLETS, HORNSTROBES, SWITCHES, CO2 SENSORS AND THERMOSTATS, ARE TO BE INSTALLED AS LOCATED ON THE ARCHITECTURAL ELEVAITONS, MECHANICAL AND ELECTRICAL CONTRACTORS ARE TO COORDINATE WITH STUD FRAMING PRIOR TO ROUGH-IN TO ENSURE PRECISE LOCATIONS. REFER TO MECHANICAL AND ELECTRICAL DRAWINGS AND SPECIFICATIOSN FOR TYPE AND QUANTITY. WHERE NOT INDICATED REFER TO AXXX/XX FOR MOUNTING LOCATION GUIDELINES.

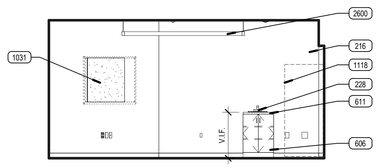
1. ALL MILLWORK DIMENSIONED FROM BASE TO TOP OF IDENTIFIED COUNTERTOP, TYP.
2. CABINET DEPTH IS MEASURED FROM THE WALL TO THE FACE OF THE DOOR OR DRAWER FRONT (WHERE APPLICABLE)
3. PROVIDE BASE AT ALL CABINET TOE SPACE. UNLESS NOTED OTHERWISE.
4. PROVIDE GROMMET WHERE "G" IS LAELED ON PLANS OR ELEVATIONS.
5. ALL COUNTERTOPS AT SINK LOCATIONS TO HAVE A 4" BACKSPLASH, UNLESS NOTED OTHERWISE, TO MATCH COUNTERTOP, ON BACK AND SIDE WALLS.
6. PROVIDE FILLER PANESL TO SEAL SIDES AND TOPS OF ALL CABINETS PLACED AT AN ANGLE TO ADJACENT WALL(S).
7. ALL MILLWORK TO BE FINISHED ON ENDS, TYP.
8. CONTRACTOR TO PROVIDE BLOCKING BEHIND ALL CABINETS, AS WELL AS ALL WALL MOUNTED ACCESSORIES, INCLUDING WHITE BOARDS, TACKBOARDS, TOILET AND URINAL PARTITIONS AND TOILET ROOM ACCESSORIES, ETC.... NOTE: ONLY 2X WOOD BLOCKING IS ACCEPTABLE BEHIND MILLWORK AND TOILET ROOM PARTITITONS.
9. REFER TO SPECIFICATIONS FOR FINISH COLORS ON ALL MILLWORK AND CASEWORK.
10. GLASS ATTACHED TO THE MILLWORK CABINETS AND COUNTERS IS TO BE PROVIDED BY THE MILLWORK COTNRACTOR.



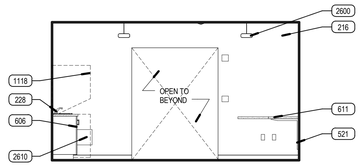

B1 CLUB 109A NORTH ELEV.
SCALE: 1/4" = 1'-0"
0' 2' 4' 8' 16'




B2 CLUB 109A EAST ELEV.
SCALE: 1/4" = 1'-0"
0' 2' 4' 8' 16'




B4 CLUB 109A SOUTH ELEV.
SCALE: 1/4" = 1'-0"
0' 2' 4' 8' 16'



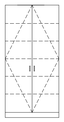

B5 CLUB 109A WEST ELEV.
SCALE: 1/4" = 1'-0"
0' 2' 4' 8' 16'

## ARCHITECTURAL MILLWORK KEY

EXAMPLE:

B 1 1 1 **
- ACCESSORY (IF NOTED)
- ONE ADJUSTABLE SHELF
- ONE DOOR
- ONE DRAWER
- BASE CABINET *

W 0 2 1 **
- ACCESSORY (IF NOTED)
- ONE ADJUSTABLE SHELF
- TWO DOORS
- ZERO DRAWERS
- WALL CABINET *



T 0 2 5 L
- LOCKS AT DOORS
- FIVE ADJUSTABLE SHELF
- TWO DOORS
- ZERO DRAWERS
- TALL CABINET *

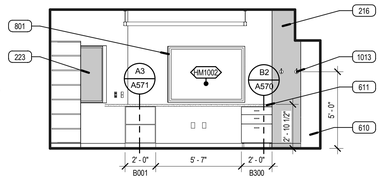
*NOTE:

| | |
|---|---|
| SB | DENOTES SINK BASE CABINET |
| TW | DENOTES TALL WARDROBE CABINET |
| FMD | DENOTES FRAMED PERFORATED METAL PANEL DOOR |
| FGD | DENOTES FRAMED GLASS PANEL DOOR |

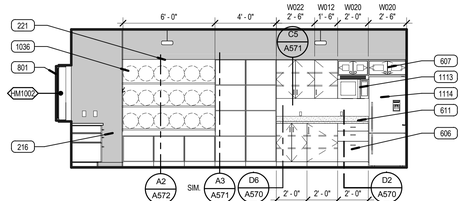
**NOTE:

| | |
|---|---|
| L | DENOTES LOCKS AT DOOR(S) / DRAWER(S) |
| F | DENOTES FILE DRAWER(S) |

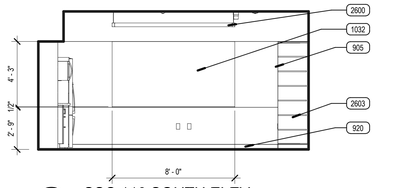
CABINET MEASURMENTS SHOWN ARE ACTUAL SIZES, BASE CABINET HEIGHTS ALLOW FOR A COUNTERTOP 1 1/2" THICK CABINETS ARE MEASURED FROM THE BACK TO THE FACE OF THE DOOR OR DRAWER FRONT (WHERE APPLICABLE)
ALL CABINET INTERIORS, WHETHER CONCELED BEHIND DOORS OR OPEN, ARE STANDARD MELAMINE LAMINATE AS PER SPECIFICATIONS.



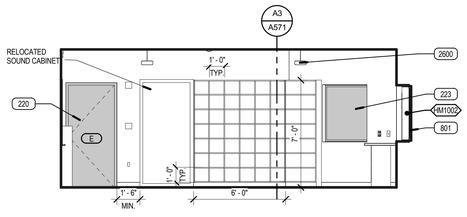

A1 CSC 110 NORTH ELEV.
SCALE: 1/4" = 1'-0"
0' 2' 4' 8' 16'




A2 CSC 110 EAST ELEV.
SCALE: 1/4" = 1'-0"
0' 2' 4' 8' 16'




A4 CSC 110 SOUTH ELEV.
SCALE: 1/4" = 1'-0"
0' 2' 4' 8' 16'




A5 CSC 110 WEST ELEV.
SCALE: 1/4" = 1'-0"
0' 2' 4' 8' 16'

VCBO
ARCHITECTURE
VALENTINER
CRANE
BRUNJES
ONYON

VCBO ARCHITECTURE
524 SOUTH 600 EAST
SALT LAKE CITY, UT 84102
Phone: (801) 575-8800
Fax: (801) 531-9850
WWW: www.vcbo.com

DFCM CODE COMPLIANCE STAMP

# Student Activity Center
## Stromberg Addition - BID SET
Weber State University
3750 Harrison Blvd. Ogden, UT 84408

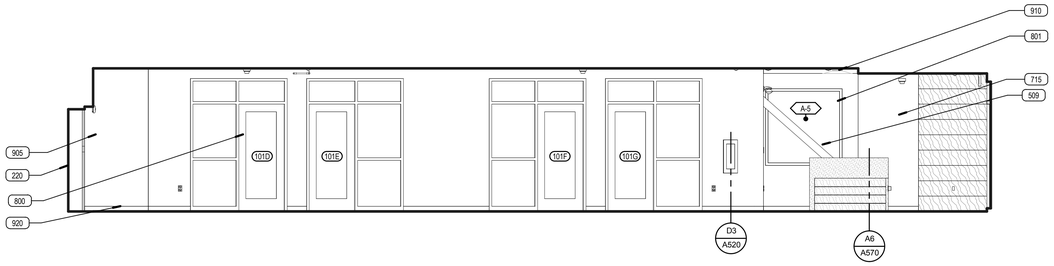
| Rev # | Date | Description |
|---|---|---|

Job # 12475
CAD File
Drawn Author Checked Checker
Date 10.03.2012
Owner # DFCM #12031810

LEVEL 01 INTERIOR ELEVATIONS

A410.3

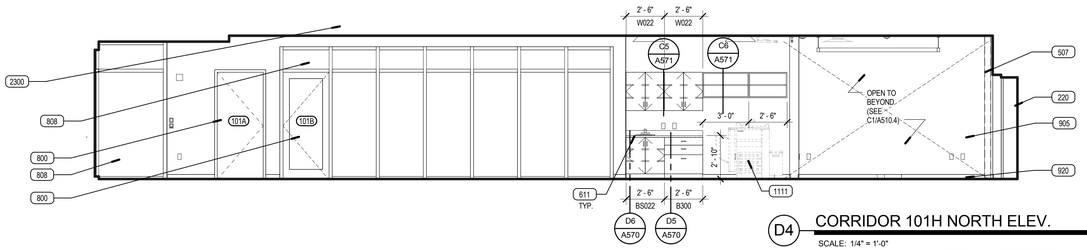
10/3/2012 3:19:32 PM




E4 CORRIDOR 101H SOUTH ELEV.

SCALE: 1/4" = 1'-0"

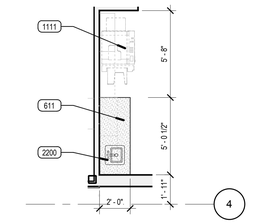
0' 2' 4' 8' 16'




D4 CORRIDOR 101H NORTH ELEV.

SCALE: 1/4" = 1'-0"

0' 2' 4' 8' 16'



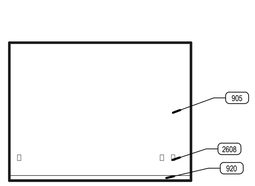

D5 CORRIDOR 101H COUNTER

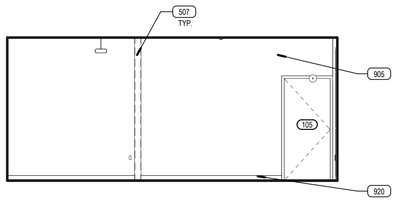
SCALE: 1/4" = 1'-0"

0' 2' 4' 8' 16'

## KEYED NOTES

| | |
|---|---|
| 220 | EXG DOOR |
| 507 | STEEL COLUMN PAINTED WHERE EXPOSED |
| 509 | CROSS BRACING PAINTED WHERE EXPOSED |
| 611 | PLASTIC LAMINATE COUNTERTOP |
| 612 | QUARTZ COUNTERTOP |
| 614 | FILLER PANEL |
| 715 | PRE-FINISHED EXTERIOR METAL PANEL |
| 800 | DOOR & FRAME |
| 801 | WINDOW SYSTEM |
| 807 | CURTAINWALL SYSTEM |
| 808 | STOREFRONT SYSTEM |
| 905 | 5/8" GYP. BD. PAINTED WHERE EXPOSED |
| 909 | SUSPENDED ACOUSTICAL TILE CEILING |
| 910 | SUSPENDED GYP. BD. CEILING SYSTEM |
| 920 | SCHEDULED BASE |
| 925 | |
| 1031 | LCD SCREEN NIC |
| 1111 | COPIER, NIC |
| 1114 | REFRIGERATOR, NIC |
| 2200 | SINK AND FAUCET |
| 2300 | MECHANICAL DUCT PAINTED WHERE EXPOSED |
| 2600 | LIGHT FIXTURE |
| 2603 | ELECTRIC PANEL |
| 2608 | OUTLET |
| 2610 | ELECTRICAL EQUIPMENT |




C3 OFFICE 101C NORTH ELEV.

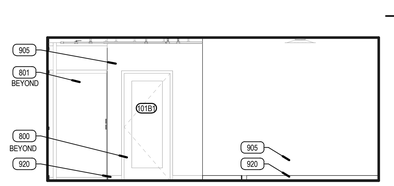
SCALE: 1/4" = 1'-0"

0' 2' 4' 8' 16'

C4 OFFICE 101C EAST ELEV.

SCALE: 1/4" = 1'-0"

0' 2' 4' 8' 16'




C5 OFFICE 101C WEST ELEV.

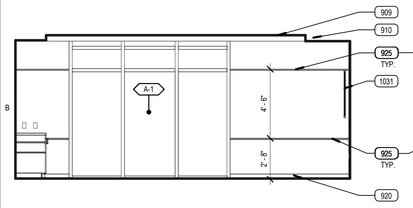
SCALE: 1/4" = 1'-0"

0' 2' 4' 8' 16'

## MILLWORK LEGEND

GENERAL NOTE: WALL MOUNTED MECHANICAL AND ELECTRICAL DEVICES, SUCH AS, BUT NOT LIMITED TO: POWER, DATA, AV OUTLETS, HORNSTROBES, SWITCHES, CO2 SENSORS AND THERMOSTATS, ARE TO BE INSTALLED AS LOCATED ON THE ARCHITECTURAL ELEVAITONS, MECHANICAL AND ELECTRICAL CONTRACTORS ARE TO COORDINATE WITH STUD FRAMING PRIOR TO ROUGH-IN TO ENSURE PRECISE LOCATIONS. REFER TO MECHANICAL AND ELECTRICAL DRAWINGS AND SPECIFICATION FOR TYPE AND QUANTITY. WHERE NOT INDICATED REFER TO AXXX/XX FOR MOUNTING LOCATION GUIDELINES.

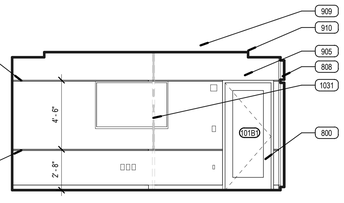
1. ALL MILLWORK DIMENSIONED FROM BASE TO TOP OF IDENTIFIED COUNTERTOP, TYP.
2. CABINET DEPTH IS MEASURED FROM THE WALL TO THE FACE OF THE DOOR OR DRAWER FRONT (WHERE APPLICABLE)
3. PROVIDE BASE AT ALL CABINET TOE SPACE, UNLESS NOTED OTHERWISE.
4. PROVIDE GROMMET WHERE "G" IS LAELED ON PLANS OR ELEVATIONS.
5. ALL COUNTERTOPS AT SINK LOCATIONS TO HAVE A 4" BACKSPLASH, UNLESS NOTED OTHERWISE, TO MATCH COUNTERTOP, ON BACK AND SIDE WALLS.
6. PROVIDE FILLER PANESL TO SEAL SIDES AND TOPS OF ALL CABINETS PLACED AT AN ANGLE TO ADJACENT WALL(S).
7. ALL MILLWORK TO BE FINISHED ON ENDS, TYP.
8. CONTRACTOR TO PROVIDE BLOCKING BEHIND ALL CABINETS, AS WELL AS ALL WALL MOUNTED ACCESSORIES, INCLUDING WHITE BOARDS, TACKBOARDS, TOILET AND URINAL PARTITIONS AND TOILET ROOM ACCESSORIES, ETC... NOTE: ONLY 2X WOOD BLOCKING IS ACCEPTABLE BEHIND MILLWORK AND TOILET ROOM PARTIITONS.
9. REFER TO SPECIFICATIONS FOR FINISH COLORS ON ALL MILLWORK AND CASEWORK.
10. GLASS ATTACHED TO THE MILLWORK CABINETS AND COUNTERS IS TO BE PROVIDED BY THE MILLWORK COTNRACTOR.




B1 CONF. 101B NORTH ELEV.

SCALE: 1/4" = 1'-0"

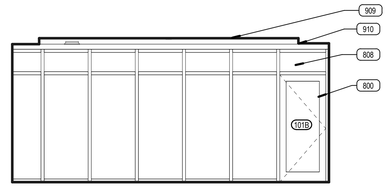
0' 2' 4' 8' 16'




B2 CONF. 101B EAST ELEV.

SCALE: 1/4" = 1'-0"

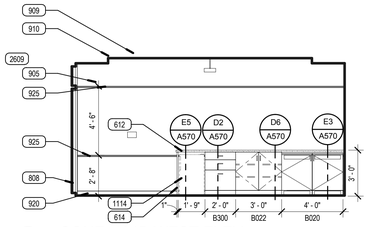
0' 2' 4' 8' 16'




B3 CONF. 101B SOUTH ELEV.

SCALE: 1/4" = 1'-0"

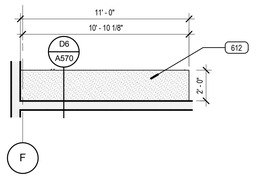
0' 2' 4' 8' 16'




B4 CONF. 101B WEST ELEV.

SCALE: 1/4" = 1'-0"

0' 2' 4' 8' 16'




B5 CONF. ROOM 101B COUNTER

SCALE: 1/4" = 1'-0"

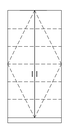
0' 2' 4' 8' 16'

## ARCHITECTURAL MILLWORK KEY

EXAMPLE:

B 1 1 1 **
- ACCESSORY (IF NOTED)
- ONE ADJUSTABLE SHELF
- ONE DOOR
- ONE DRAWER
- BASE CABINET *

W 0 2 1 **
- ACCESSORY (IF NOTED)
- ONE ADJUSTABLE SHELF
- TWO DOORS
- ZERO DRAWERS
- WALL CABINET *



T 0 2 5 L
- LOCKS AT DOORS
- FIVE ADJUSTABLE SHELF
- TWO DOORS
- ZERO DRAWERS
- TALL CABINET *

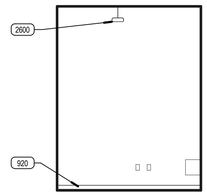
*NOTE:

| | |
|---|---|
| SB | DENOTES SINK BASE CABINET |
| TW | DENOTES TALL WARDROBE CABINET |
| FMD | DENOTES FRAMED PERFORATED METAL PANEL DOOR |
| FGD | DENOTES FRAMED GLASS PANEL DOOR |

**NOTE:

| | |
|---|---|
| L | DENOTES LOCKS AT DOOR(S) / DRAWER(S) |
| F | DENOTES FILE DRAWER(S) |

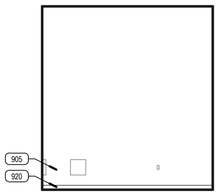
CABINET MEASURMENTS SHOWN ARE ACTUAL SIZES, BASE CABINET HEIGHTS ALLOW FOR A COUNTERTOP 1 1/2" THICK CABINETS ARE MEASURED FROM THE BACK TO THE FACE OF THE DOOR OR DRAWER FRONT (WHERE APPLICABLE).
ALL CABINET INTERIORS, WHETHER CONCELED BEHIND DOORS OR OPEN, ARE STANDARD MELAMINE LAMINATE AS PER SPECIFICATIONS.




A2 OFFICE 105C NORTH ELEV.

SCALE: 1/4" = 1'-0"

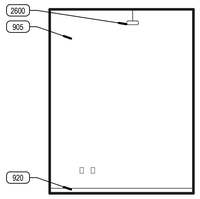
0' 2' 4' 8' 16'




A3 OFFICE 105C EAST ELEV.

SCALE: 1/4" = 1'-0"

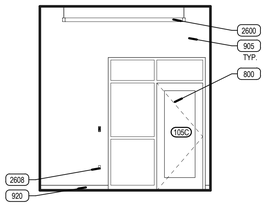
0' 2' 4' 8' 16'




A4 OFFICE 105C SOUTH ELEV.

SCALE: 1/4" = 1'-0"

0' 2' 4' 8' 16'




A5 OFFICE 105C WEST ELEV.

SCALE: 1/4" = 1'-0"

0' 2' 4' 8' 16'

VCBO
ARCHITECTURE
VALENTINER
CRANE
BRUNJES
ONYON

LICENSED ARCHITECT
No. 13392
BRENT R. TIPPETS
10-2-12
STATE OF UTAH

VCBO ARCHITECTURE
524 SOUTH 600 EAST
SALT LAKE CITY, UT 84102
Phone: (801) 575-8800
Fax: (801) 531-9850
WWW: www.vcbo.com

DFCM CODE COMPLIANCE STAMP

# Student Activity Center
## Stromberg Addition - BID SET
Weber State University
3750 Harrison Blvd. Ogden, UT 84408

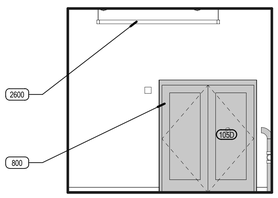
| Rev # | Date | Description |
|---|---|---|

Job # 12475
CAD File
Drawn Author Checked Checker
Date 10.03.2012
Owner # DFCM #12031810

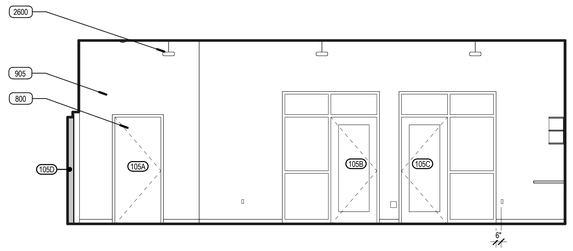
LEVEL 01 INTERIOR ELEVATIONS

A410.4

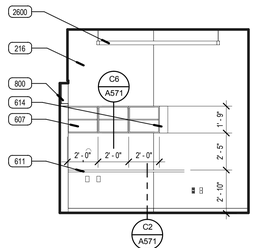
10/3/2012 3:19:47 PM



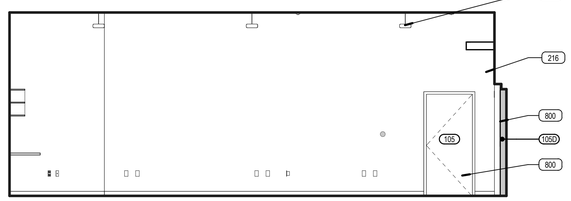

E1 WORKROOM 105 NORTH ELEV.
SCALE: 1/4" = 1'-0"




E2 WORKROOM 105 EAST ELEV.
SCALE: 1/4" = 1'-0"



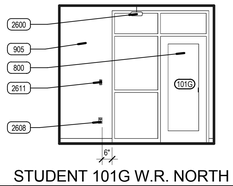

E3 WORKROOM 105 SOUTH ELEV.
SCALE: 1/4" = 1'-0"



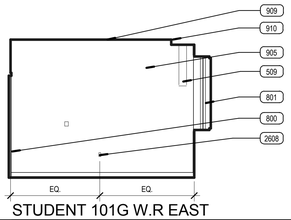

E5 WORKROOM 105 WEST ELEV.
SCALE: 1/4" = 1'-0"

## KEYED NOTES

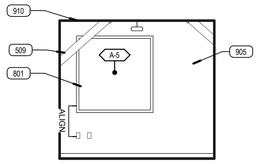
| | |
|---|---|
| 216 | EXG WALL |
| 507 | STEEL COLUMN PAINTED WHERE EXPOSED |
| 509 | CROSS BRACING PAINTED WHERE EXPOSED |
| 607 | WALL MOUNTED UPPER CABINET WITH BLOCKING |
| 611 | PLASTIC LAMINATE COUNTERTOP |
| 614 | FILLER PANEL |
| 800 | DOOR & FRAME |
| 801 | WINDOW SYSTEM |
| 905 | 5/8" GYP. BD. PAINTED WHERE EXPOSED |
| 909 | SUSPENDED ACOUSTICAL TILE CEILING |
| 910 | SUSPENDED GYP. BD. CEILING SYSTEM |
| 2300 | MECHANICAL DUCT PAINTED WHERE EXPOSED |
| 2600 | LIGHT FIXTURE |
| 2608 | OUTLET |
| 2611 | OCCUPANCY DETECTOR |



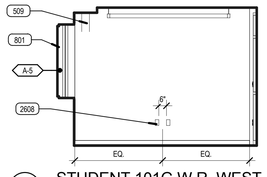

D2 STUDENT 101G W.R. NORTH
SCALE: 1/4" = 1'-0"




D3 STUDENT 101G W.R EAST
SCALE: 1/4" = 1'-0"




D4 STUDENT 101G W.R. SOUTH
SCALE: 1/4" = 1'-0"




D5 STUDENT 101G W.R. WEST
SCALE: 1/4" = 1'-0"




C2 OFFICE 101F NORTH
SCALE: 1/4" = 1'-0"



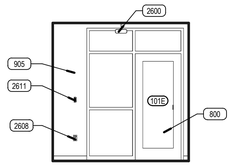

C3 OFFICE 101F EAST
SCALE: 1/4" = 1'-0"



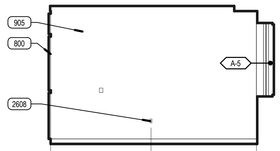

C4 OFFICE 101F SOUTH
SCALE: 1/4" = 1'-0"



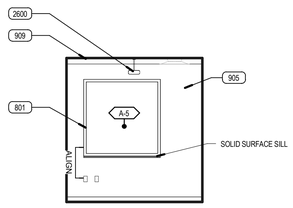

C5 OFFICE 101F WEST
SCALE: 1/4" = 1'-0"



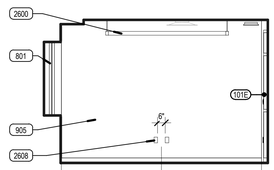

B2 OFFICE 101E NORTH ELEV.
SCALE: 1/4" = 1'-0"



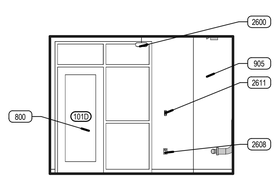

B3 OFFICE 101E EAST ELEV.
SCALE: 1/4" = 1'-0"



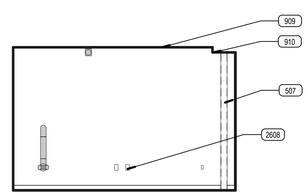

B4 OFFICE 101E SOUTH
SCALE: 1/4" = 1'-0"



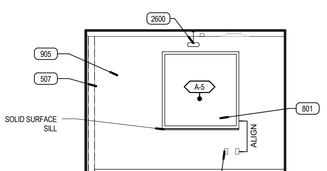

B5 OFFICE 101E WEST ELEV.
SCALE: 1/4" = 1'-0"



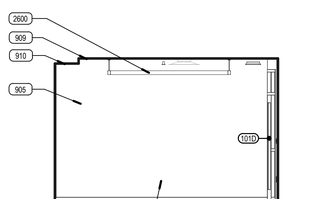

A2 OFFICE 101D NORTH ELEV.
SCALE: 1/4" = 1'-0"




A3 OFFICE 101D EAST ELEV.
SCALE: 1/4" = 1'-0"




A4 OFFICE 101D SOUTH ELEV.
SCALE: 1/4" = 1'-0"




A5 OFFICE 101D WEST ELEV.
SCALE: 1/4" = 1'-0"

## MILLWORK LEGEND

GENERAL NOTE: WALL MOUNTED MECHANICAL AND ELECTRICAL DEVICES, SUCH AS, BUT NOT LIMITED TO: POWER, DATA, AV OUTLETS, HORNSTROBES, SWITCHES, CO2 SENSORS AND THERMOSTATS, ARE TO BE INSTALLED AS LOCATED ON THE ARCHITECTURAL ELEVAITONS, MECHANICAL AND ELECTRICAL CONTRACTORS ARE TO COORDINATE WITH STUD FRAMING PRIOR TO ROUGH-IN TO ENSURE PRECISE LOCATIONS. REFER TO MECHANICAL AND ELECTRICAL DRAWINGS AND SPECIFICATIOSN FOR TYPE AND QUANTITY. WHERE NOT INDICATED REFER TO AXXX/XX FOR MOUNTING LOCATION GUIDELINES.

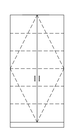
1. ALL MILLWORK DIMENSIONED FROM BASE TO TOP OF IDENTIFIED COUNTERTOP, TYP.
2. CABINET DEPTH IS MEASURED FROM THE WALL TO THE FACE OF THE DOOR OR DRAWER FRONT (WHERE APPLICABLE)
3. PROVIDE BASE AT ALL CABINET TOE SPACE, UNLESS NOTED OTHERWISE.
4. PROVIDE GROMMET WHERE "G" IS LAELED ON PLANS OR ELEVATIONS.
5. ALL COUNTERTOPS AT SINK LOCATIONS TO HAVE A 4" BACKSPLASH, UNLESS NOTED OTHERWISE, TO MATCH COUNTERTOP, ON BACK AND SIDE WALLS
6. PROVIDE FILLER PANESL TO SEAL SIDES AND TOPS OF ALL CABINETS PLACED AT AN ANGLE TO ADJACENT WALL(S).
7. ALL MILLWORK TO BE FINISHED ON ENDS, TYP.
8. CONTRACTOR TO PROVIDE BLOCKING BEHIND ALL CABINETS, AS WELL AS ALL WALL MOUNTED ACCESSORIES, INCLUDING WHITE BOARDS, TACKBOARDS, TOILET AND URINAL PARTITIONS AND TOILET ROOM ACCESSORIES, ETC... NOTE: ONLY 2X WOOD BLOCKING IS ACCEPTABLE BEHIND MILLWORK AND TOILET ROOM PARTITIONS.
9. REFER TO SPECIFICATIONS FOR FINISH COLORS ON ALL MILLWORK AND CASEWORK.
10. GLASS ATTACHED TO THE MILLWORK CABINETS AND COUNTERS IS TO BE PROVIDED BY THE MILLWORK COTNRACTOR.

## ARCHITECTURAL MILLWORK KEY

EXAMPLE:

B 1 1 1 **
- ACCESSORY (IF NOTED)
- ONE ADJUSTABLE SHELF
- ONE DOOR
- ONE DRAWER
- BASE CABINET *

W 0 2 1 **
- ACCESSORY (IF NOTED)
- ONE ADJUSTABLE SHELF
- TWO DOORS
- ZERO DRAWERS
- WALL CABINET *



T 0 2 5 L
- LOCKS AT DOORS
- FIVE ADJUSTABLE SHELF
- TWO DOORS
- ZERO DRAWERS
- TALL CABINET *

*NOTE:

| | |
|---|---|
| SB | DENOTES SINK BASE CABINET |
| TW | DENOTES TALL WARDROBE CABINET |
| FMD | DENOTES FRAMED PERFORATED METAL PANEL DOOR |
| FGD | DENOTES FRAMED GLASS PANEL DOOR |

**NOTE:

| | |
|---|---|
| L | DENOTES LOCKS AT DOOR(S) / DRAWER(S) |
| F | DENOTES FILE DRAWER(S) |

CABINET MEASURMENTS SHOWN ARE ACTUAL SIZES, BASE CABINET HEIGHTS ALLOW FOR A COUNTERTOP 1 1/2" THICK CABINETS ARE MEASURED FROM THE BACK TO THE FACE OF THE DOOR OR DRAWER FRONT (WHERE APPLICABLE).
ALL CABINET INTERIORS, WHETHER CONCELED BEHIND DOORS OR OPEN, ARE STANDARD MELAMINE LAMINATE AS PER SPECIFICATIONS.

VCBO
ARCHITECTURE
VALENTINER
CRANE
BRUNJES
ONYON

VCBO ARCHITECTURE
524 SOUTH 600 EAST
SALT LAKE CITY, UT 84102
Phone: (801) 575-8800
Fax: (801) 531-9850
WWW: www.vcbo.com

DFCM CODE COMPLIANCE STAMP

# Student Activity Center
Stromberg Addition - BID SET
Weber State University
3750 Harrison Blvd. Ogden, UT 84408

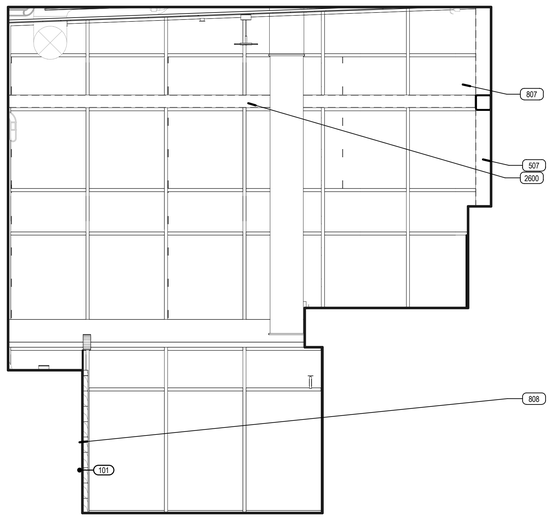
| Rev # | Date | Description |
|---|---|---|

Job # 12475
CAD File
Drawn Author Checked Checker
Date 10.03.2012
Owner # DFCM #12031810

LEVEL 01 INTERIOR ELEVATIONS

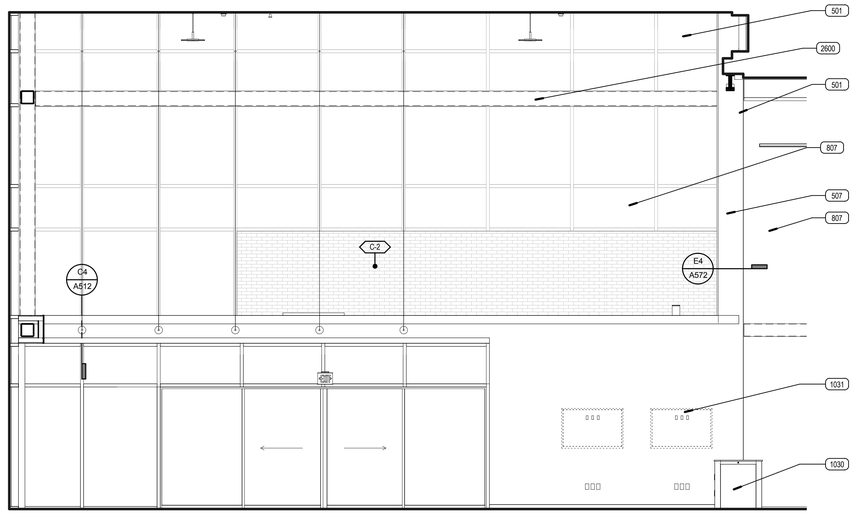
A410.5

10/3/2012 3:20:05 PM



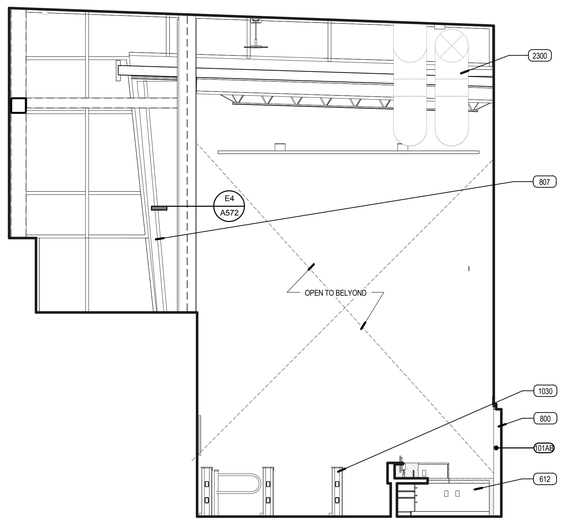

D2 CONTROL 100 SOUTH ELEV.

SCALE: 1/4" = 1'-0"



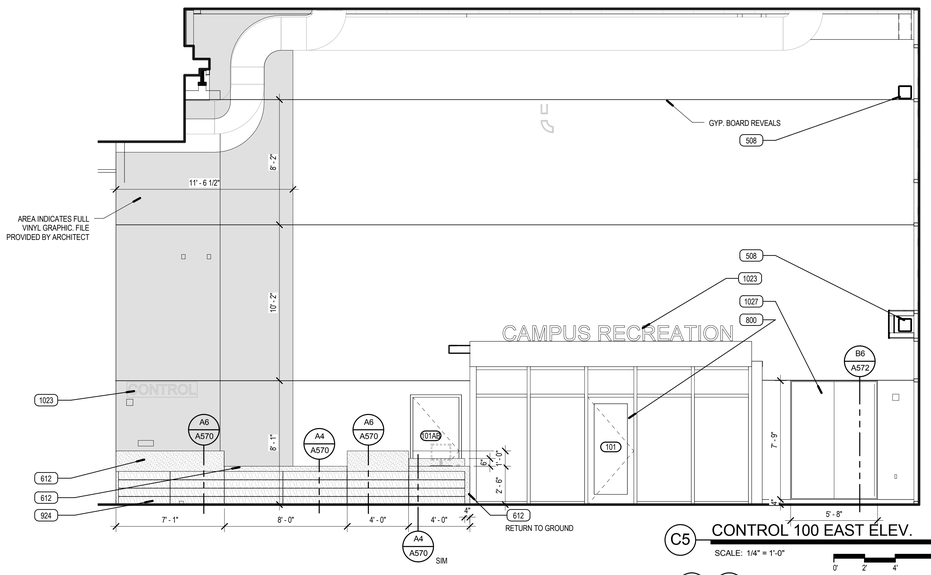

D5 CONTROL 100 WEST ELEV.

SCALE: 1/4" = 1'-0"



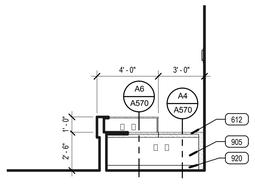

C2 CONTROL 100 NORTH ELEV.

SCALE: 1/4" = 1'-0"



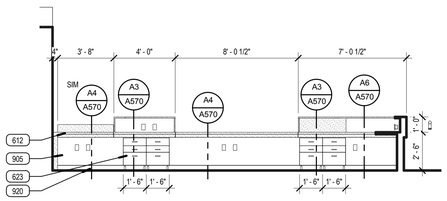

C5 CONTROL 100 EAST ELEV.

SCALE: 1/4" = 1'-0"



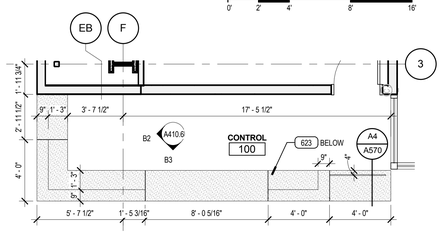

B2 CONTROL 100 NORTH

SCALE: 1/4" = 1'-0"



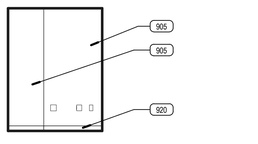

B3 CONTROL 100 WEST

SCALE: 1/4" = 1'-0"




B6 CONTROL COUNTER

SCALE: 1/4" = 1'-0"

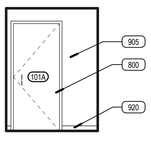



A1 EQUIP. 101A NORTH ELEV.

SCALE: 1/4" = 1'-0"

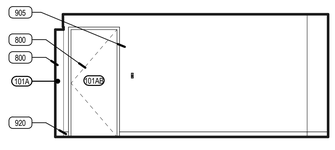
A2 EQUIP. 101A EAST ELEV.

SCALE: 1/4" = 1'-0"




A3 EQUIP. 101A SOUTH ELEV.

SCALE: 1/4" = 1'-0"




A4 EQUIP. 101A WEST ELEV.

SCALE: 1/4" = 1'-0"

## KEYED NOTES

| | |
|---|---|
| 501 | STEEL BEAM PAINTED WHERE EXPOSED |
| 507 | STEEL COLUMN PAINTED WHERE EXPOSED |
| 508 | STEEL GIRDER PAINTED WHERE EXPOSED |
| 612 | QUARTZ COUNTERTOP |
| 623 | MOBILE BASE CABINET |
| 800 | DOOR & FRAME |
| 807 | CURTAINWALL SYSTEM |
| 808 | STOREFRONT SYSTEM |
| 905 | 5/8" GYP. BD. PAINTED WHERE EXPOSED |
| 909 | SUSPENDED ACOUSTICAL TILE CEILING |
| 920 | SCHEDULED BASE |
| 924 | WOOD VENEER |
| 1023 | SIGNAGE, SEE SCHEDULE |
| 1027 | BUILT IN DISPLAY CASE |
| 1030 | TURNSTILE |
| 1031 | LCD SCREEN NIC |
| 2300 | MECHANICAL DUCT PAINTED WHERE EXPOSED |
| 2600 | LIGHT FIXTURE |

## MILLWORK LEGEND

GENERAL NOTE: WALL MOUNTED MECHANICAL AND ELECTRICAL DEVICES, SUCH AS, BUT NOT LIMITED TO; POWER, DATA, AV OUTLETS, HORNSTROBES, SWITCHES, CO2 SENSORS AND THERMOSTATS, ARE TO BE INSTALLED AS LOCATED ON THE ARCHITECTURAL ELEVAITONS. MECHANICAL AND ELECTRICAL CONTRACTORS ARE TO COORDINATE WITH STUD FRAMING PRIOR TO ROUGH-IN TO ENSURE PRECISE LOCATIONS. REFER TO MECHANICAL AND ELECTRICAL DRAWINGS AND SPECIFICATIOSN FOR TYPE AND QUANTITY. WHERE NOT INDICATED REFER TO AXXX/XX FOR MOUNTING LOCATION GUIDELINES.

1. ALL MILLWORK DIMENSIONED FROM BASE TO TOP OF IDENTIFIED COUNTERTOP, TYP.
2. CABINET DEPTH IS MEASURED FROM THE WALL TO THE FACE OF THE DOOR OR DRAWER FRONT (WHERE APPLICABLE)
3. PROVIDE BASE AT ALL CABINET TOE SPACE, UNLESS NOTED OTHERWISE.
4. PROVIDE GROMMET WHERE "G" IS LAELED ON PLANS OR ELEVATIONS.
5. ALL COUNTERTOPS AT SINK LOCATIONS TO HAVE A 4" BACKSPLASH, UNLESS NOTED OTHERWISE, TO MATCH COUNTERTOP, ON BACK AND SIDE WALLS.
6. PROVIDE FILLER PANELS, TO SEAL SIDES AND TOPS OF ALL CABINETS PLACED AT AN ANGLE TO ADJACENT WALL(S).
7. ALL MILLWORK TO BE FINISHED ON ENDS, TYP.
8. CONTRACTOR TO PROVIDE BLOCKING BEHIND ALL CABINETS, AS WELL AS ALL WALL MOUNTED ACCESSORIES, INCLUDING WHITE BOARDS, TACKBOARDS, TOILET AND URINAL PARTITIONS AND TOILET ROOM ACCESSORIES, ETC... NOTE: ONLY 2X WOOD BLOCKING IS ACCEPTABLE BEHIND MILLWORK AND TOILET ROOM PARTIITONS.
9. REFER TO SPECIFICATIONS FOR FINISH COLORS ON ALL MILLWORK AND CASEWORK.
10. GLASS ATTACHED TO THE MILLWORK CABINETS AND COUNTERS IS TO BE PROVIDED BY THE MILLWORK COTNRACTOR.

## ARCHITECTURAL MILLWORK KEY

EXAMPLE:

B 1 1 1 **
- ACCESSORY (IF NOTED)
- ONE ADJUSTABLE SHELF
- ONE DOOR
- ONE DRAWER
- BASE CABINET *

W 0 2 1 **
- ACCESSORY (IF NOTED)
- ONE ADJUSTABLE SHELF
- TWO DOORS
- ZERO DRAWERS
- WALL CABINET *

T 0 2 5 L
- LOCKS AT DOORS
- FIVE ADJUSTABLE SHELF
- TWO DOORS
- ZERO DRAWERS
- TALL CABINET *

*NOTE:

| | |
|---|---|
| SB | DENOTES SINK BASE CABINET |
| TW | DENOTES TALL WARDROBE CABINET |
| FMD | DENOTES FRAMED PERFORATED METAL PANEL DOOR |
| FGD | DENOTES FRAMED GLASS PANEL DOOR |

**NOTE:

| | |
|---|---|
| L | DENOTES LOCKS AT DOOR(S) / DRAWER(S) |
| F | DENOTES FILE DRAWER(S) |

CABINET MEASURMENTS SHOWN ARE ACTUAL SIZES, BASE CABINET HEIGHTS ALLOW FOR A COUNTERTOP 1 1/2" THICK CABINETS ARE MEASURED FROM THE BACK TO THE FACE OF THE DOOR OR DRAWER FRONT (WHERE APPLICABLE).
ALL CABINET INTERIORS, WHETHER CONCELED BEHIND DOORS OR OPEN, ARE STANDARD MELAMINE LAMINATE AS PER SPECIFICATIONS.

VCBO
ARCHITECTURE
VALENTINER
CRANE
BRUNJES
ONYON

VCBO ARCHITECTURE
524 SOUTH 600 EAST
SALT LAKE CITY, UT 84102
Phone: (801) 575-8800
Fax: (801) 531-9850
WWW: www.vcbo.com

DFCM CODE COMPLIANCE STAMP

# Student Activity Center
Stromberg Addition - BID SET
Weber State University
3750 Harrison Blvd. Ogden, UT 84408

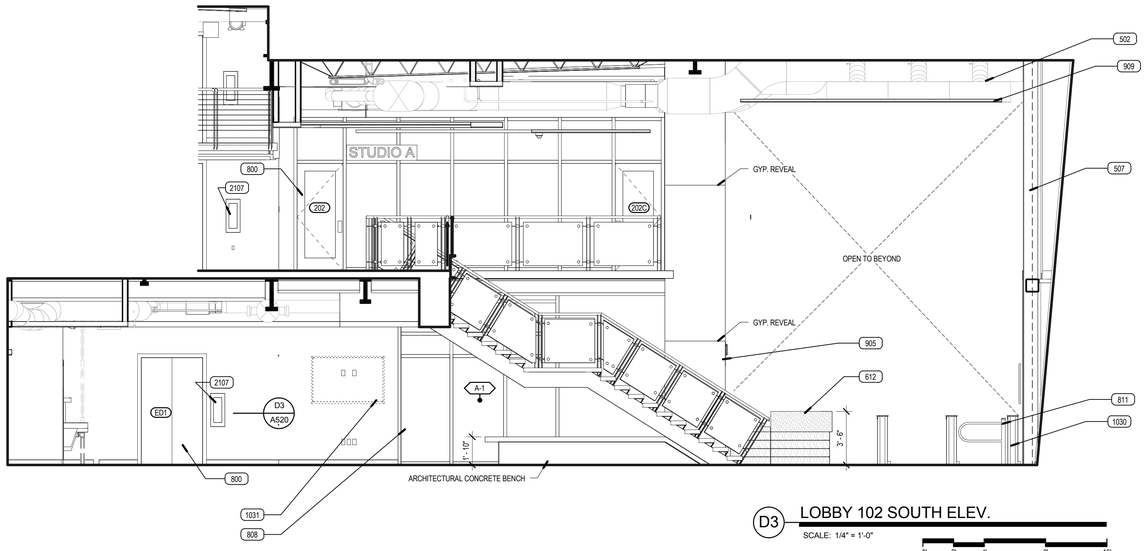
| Rev # | Date | Description |
|---|---|---|

Job # 12475
CAD File
Drawn Author Checked Checker
Date 10.03.2012
Owner # DFCM #12031810

LEVEL 01 INTERIOR ELEVATIONS

A410.6

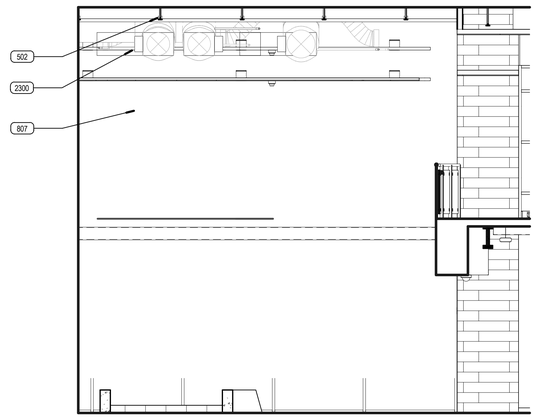
10/3/2012 3:20:21 PM




D3 LOBBY 102 SOUTH ELEV.

SCALE: 1/4" = 1'-0"

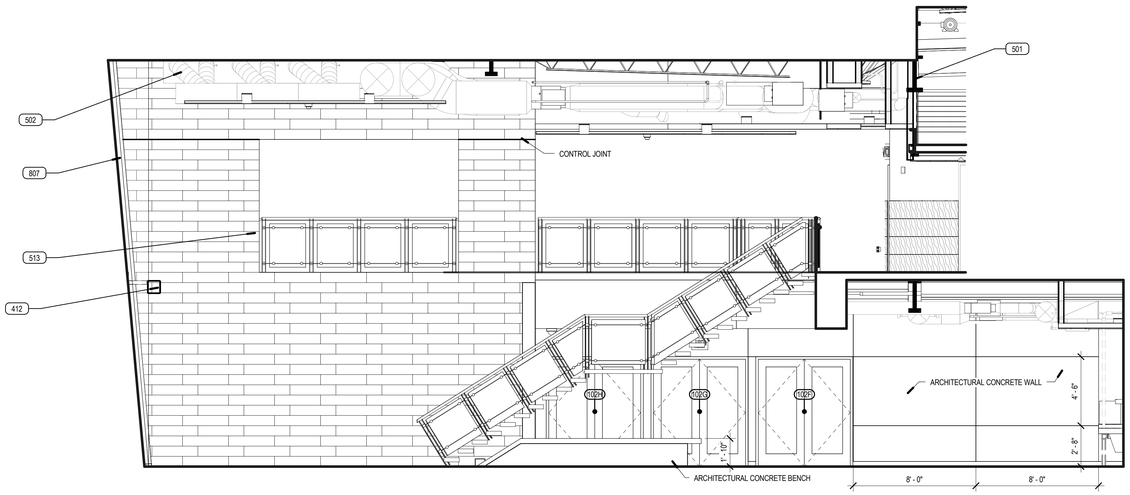
0' 2' 4' 8' 16'




D5 LOBBY 102 WEST ELEV.

SCALE: 1/4" = 1'-0"

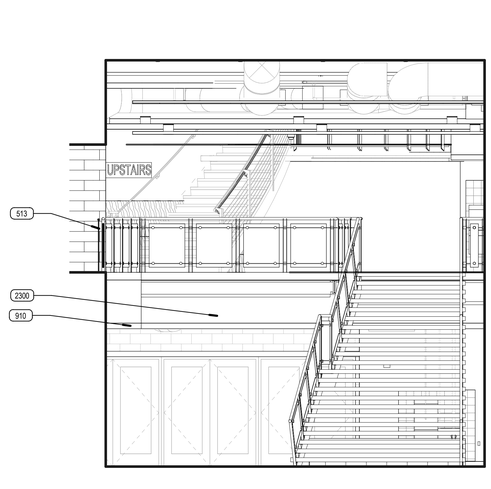
0' 2' 4' 8' 16'




B3 LOBBY 102 NORTH ELEV.

SCALE: 1/4" = 1'-0"

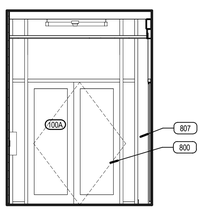
0' 2' 4' 8' 16'




B5 LOBBY 102 EAST ELEV.

SCALE: 1/4" = 1'-0"

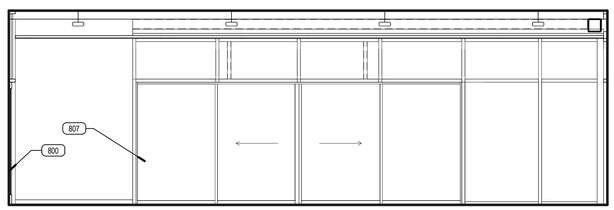
0' 2' 4' 8' 16'




A1 VESTIBULE 100A NORTH ELEV.

SCALE: 1/4" = 1'-0"

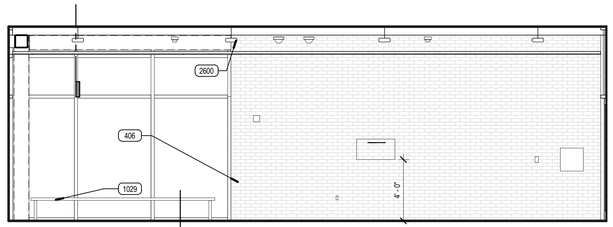
0' 2' 4' 8' 16'




A2 VESTIBULE 100A EAST ELEV.

SCALE: 1/4" = 1'-0"

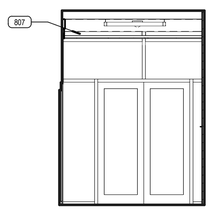
0' 2' 4' 8' 16'




A4 VESTIBULE 100A WEST ELEV.

SCALE: 1/4" = 1'-0"

0' 2' 4' 8' 16'




A5 VESTIBULE 100A SOUTH ELEV.

SCALE: 1/4" = 1'-0"

0' 2' 4' 8' 16'

## KEYED NOTES

| | |
|---|---|
| 406 | BRICK VENEER SYSTEM |
| 412 | STONE CLADDING SYSTEM |
| 501 | STEEL BEAM PAINTED WHERE EXPOSED |
| 502 | STEEL JOIST PAINTED WHERE EXPOSED |
| 507 | STEEL COLUMN PAINTED WHERE EXPOSED |
| 513 | DECORATIVE RAILING WITH 1/2" GLAZING |
| 612 | QUARTZ COUNTERTOP |
| 800 | DOOR & FRAME |
| 807 | CURTAINWALL SYSTEM |
| 808 | STOREFRONT SYSTEM |
| 811 | ELEVATOR DOOR |
| 905 | 5/8" GYP. BD. PAINTED WHERE EXPOSED |
| 909 | SUSPENDED ACOUSTICAL TILE CEILING |
| 910 | SUSPENDED GYP. BD. CEILING SYSTEM |
| 1029 | BENCH/ SEAT |
| 1030 | TURNSTILE |
| 1031 | LCD SCREEN NIC |
| 2107 | FIRE EXTINGUISHER CABINET |
| 2300 | MECHANICAL DUCT PAINTED WHERE EXPOSED |
| 2600 | LIGHT FIXTURE |

## MILLWORK LEGEND

GENERAL NOTE: WALL MOUNTED MECHANICAL AND ELECTRICAL DEVICES, SUCH AS, BUT NOT LIMITED TO: POWER, DATA, AV OUTLETS, HORNSTROBES, SWITCHES, CO2 SENSORS AND THERMOSTATS, ARE TO BE INSTALLED AS LOCATED ON THE ARCHITECTURAL ELEVATIONS. MECHANICAL AND ELECTRICAL CONTRACTORS ARE TO COORDINATE WITH STUD FRAMING PRIOR TO ROUGH-IN TO ENSURE PRECISE LOCATIONS. REFER TO MECHANICAL AND ELECTRICAL DRAWINGS AND SPECIFICATIOSN FOR TYPE AND QUANTITY. WHERE NOT INDICATED REFER TO AXXX/XX FOR MOUNTING LOCATION GUIDELINES.

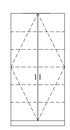
1. ALL MILLWORK DIMENSIONED FROM BASE TO TOP OF IDENTIFIED COUNTERTOP, TYP.
2. CABINET DEPTH IS MEASURED FROM THE WALL TO THE FACE OF THE DOOR OR DRAWER FRONT (WHERE APPLICABLE)
3. PROVIDE BASE AT ALL CABINET TOE SPACE, UNLESS NOTED OTHERWISE.
4. PROVIDE GROMMET WHERE "G" IS LAELED ON PLANS OR ELEVATIONS.
5. ALL COUNTERTOPS AT SINK LOCATIONS TO HAVE A 4" BACKSPLASH, UNLESS NOTED OTHERWISE, TO MATCH COUNTERTOP, ON BACK AND SIDE WALLS.
6. PROVIDE FILLER PANELS, TO SEAL SIDES AND TOPS OF ALL CABINETS PLACED AT AN ANGLE TO ADJACENT WALL(S).
7. ALL MILLWORK TO BE FINISHED ON ENDS, TYP.
8. CONTRACTOR TO PROVIDE BLOCKING BEHIND ALL CABINETS, AS WELL AS ALL WALL MOUNTED ACCESSORIES, INCLUDING WHITE BOARDS, TACKBOARDS, TOILET AND URINAL PARTITIONS AND TOILET ROOM ACCESSORIES, ETC.... NOTE: ONLY 2X WOOD BLOCKING IS ACCEPTABLE BEHIND MILLWORK AND TOILET ROOM PARTIITONS.
9. REFER TO SPECIFICATIONS FOR FINISH COLORS ON ALL MILLWORK AND CASEWORK.
10. GLASS ATTACHED TO THE MILLWORK CABINETS AND COUNTERS IS TO BE PROVIDED BY THE MILLWORK COTNRACTOR

## ARCHITECTURAL MILLWORK KEY

EXAMPLE:

B 1 1 1 **
- ACCESSORY (IF NOTED)
- ONE ADJUSTABLE SHELF
- ONE DOOR
- ONE DRAWER
- BASE CABINET *

W 0 2 1 **
- ACCESSORY (IF NOTED)
- ONE ADJUSTABLE SHELF
- TWO DOORS
- ZERO DRAWERS
- WALL CABINET *



T 0 2 5 L
- LOCKS AT DOORS
- FIVE ADJUSTABLE SHELF
- TWO DOORS
- ZERO DRAWERS
- TALL CABINET *

*NOTE:

| | |
|---|---|
| SB | DENOTES SINK BASE CABINET |
| TW | DENOTES TALL WARDROBE CABINET |
| FMD | DENOTES FRAMED PERFORATED METAL PANEL DOOR |
| FGD | DENOTES FRAMED GLASS PANEL DOOR |

**NOTE:

| | |
|---|---|
| L | DENOTES LOCKS AT DOOR(S) / DRAWER(S) |
| F | DENOTES FILE DRAWER(S) |

CABINET MEASURMENTS SHOWN ARE ACTUAL SIZES, BASE CABINET HEIGHTS ALLOW FOR A COUNTERTOP 1 1/2" THICK.CABINETS ARE MEASURED FROM THE BACK TO THE FACE OF THE DOOR OR DRAWER FRONT (WHERE APPLICABLE).
ALL CABINET INTERIORS, WHETHER CONCELED BEHIND DOORS OR OPEN, ARE STANDARD MELAMINE LAMINATE AS PER SPECIFICATIONS.

VCBO
ARCHITECTURE
VALENTINER
CRANE
BRUNJES
ONYON

VCBO ARCHITECTURE
524 SOUTH 600 EAST
SALT LAKE CITY, UT 84102
Phone: (801) 575-8800
Fax: (801) 531-9850
WWW: www.vcbo.com

DFCM CODE COMPLIANCE STAMP

# Student Activity Center
## Stromberg Addition - BID SET
Weber State University
3750 Harrison Blvd. Ogden, UT 84408

| Rev # | Date | Description |
|---|---|---|

Job # 12475
CAD File
Drawn Author Checked Checker
Date 10.03.2012
Owner # DFCM #12031810

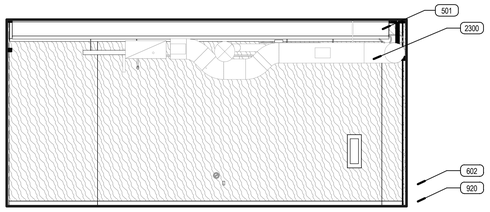
LEVEL 01 INTERIOR ELEVATIONS

A410.7

10/3/2012 3:20:37 PM

## KEYED NOTES

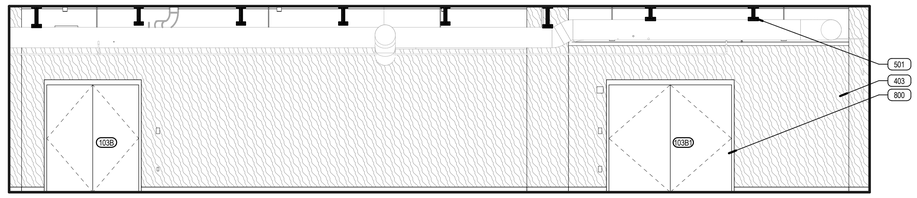
| | |
|---|---|
| 403 | 8"X8"X16" STANDARD INTERGRAL COLOR CMU |
| 501 | STEEL BEAM PAINTED WHERE EXPOSED |
| 507 | STEEL COLUMN PAINTED WHERE EXPOSED |
| 602 | PLYWOOD SHEATHING, TREATED |
| 800 | DOOR & FRAME |
| 905 | 5/8" GYP. BD. PAINTED WHERE EXPOSED |
| 920 | SCHEDULED BASE |
| 2300 | MECHANICAL DUCT PAINTED WHERE EXPOSED |
| 2600 | LIGHT FIXTURE |




D2 STORAGE 103B SOUTH ELEV.

SCALE: 1/4" = 1'-0"

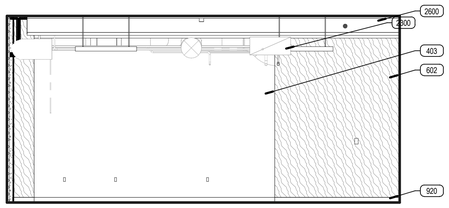
0' 2' 4' 8' 16'




D5 STORAGE 103B WEST ELEV.

SCALE: 1/4" = 1'-0"

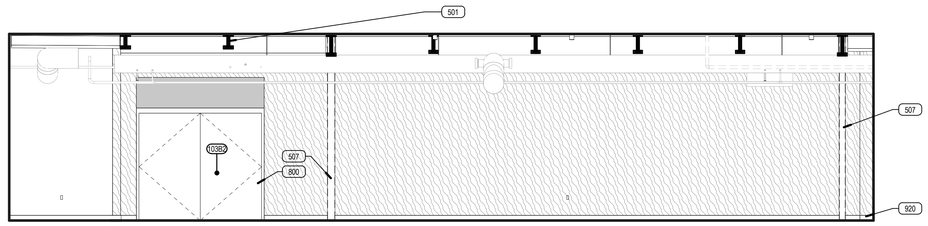
0' 2' 4' 8' 16'




C2 STORAGE 103B NORTH ELEV.

SCALE: 1/4" = 1'-0"

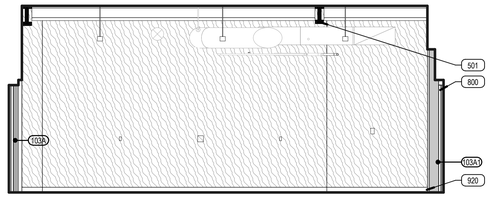
0' 2' 4' 8' 16'




C5 STORAGE 103B EAST ELEV.

SCALE: 1/4" = 1'-0"

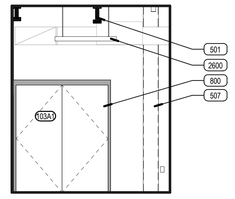
0' 2' 4' 8' 16'




B4 MAINTENANCE 103A NORTH ELEV.

SCALE: 1/4" = 1'-0"

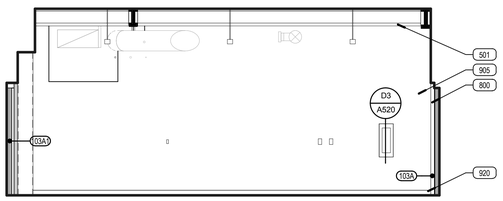
0' 2' 4' 8' 16'




B5 MAINTENANCE 103A EAST ELEV.

SCALE: 1/4" = 1'-0"

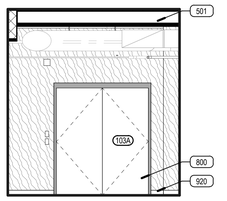
0' 2' 4' 8' 16'




A4 MAINTENANCE 103A SOUTH ELEV.

SCALE: 1/4" = 1'-0"

0' 2' 4' 8' 16'




A5 MAINTENANCE 103A WEST ELEV.

SCALE: 1/4" = 1'-0"

0' 2' 4' 8' 16'

## MILLWORK LEGEND

GENERAL NOTE: WALL MOUNTED MECHANICAL AND ELECTRICAL DEVICES, SUCH AS, BUT NOT LIMITED TO: POWER, DATA, AV OUTLETS, HORNSTROBES, SWITCHES, CO2 SENSORS AND THERMOSTATS, ARE TO BE INSTALLED AS LOCATED ON THE ARCHITECTURAL ELEVATIONS, MECHANICAL AND ELECTRICAL CONTRACTORS ARE TO COORDINATE WITH STUD FRAMING PRIOR TO ROUGH-IN TO ENSURE PRECISE LOCATIONS. REFER TO MECHANICAL AND ELECTRICAL DRAWINGS AND SPECIFICATIOSN FOR TYPE AND QUANTITY. WHERE NOT INDICATED REFER TO AXXXXXX FOR MOUNTING LOCATION GUIDELINES.

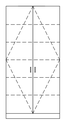
1. ALL MILLWORK DIMENSIONED FROM BASE TO TOP OF IDENTIFIED COUNTERTOP, TYP.
2. CABINET DEPTH IS MEASURED FROM THE WALL TO THE FACE OF THE DOOR OR DRAWER FRONT (WHERE APPLICABLE)
3. PROVIDE BASE AT ALL CABINET TOE SPACE, UNLESS NOTED OTHERWISE.
4. PROVIDE GROMMET WHERE "G" IS LAELED ON PLANS OR ELEVATIONS.
5. ALL COUNTERTOPS AT SINK LOCATIONS TO HAVE A 4" BACKSPLASH, UNLESS NOTED OTHERWISE, TO MATCH COUNTERTOP, ON BACK AND SIDE WALLS.
6. PROVIDE FILLER PANESL TO SEAL SIDES AND TOPS OF ALL CABINETS PLACED AT AN ANGLE TO ADJACENT WALL(S).
7. ALL MILLWORK TO BE FINISHED ON ENDS, TYP.
8. CONTRACTOR TO PROVIDE BLOCKING BEHIND ALL CABINETS, AS WELL AS ALL WALL MOUNTED ACCESSORIES, INCLUDING WHITE BOARDS, TACKBOARDS, TOILET AND URINAL PARTITIONS AND TOILET ROOM ACCESSORIES, ETC... NOTE: ONLY 2X WOOD BLOCKING IS ACCEPTABLE BEHIND MILLWORK AND TOILET ROOM PARTIITONS.
9. REFER TO SPECIFICATIONS FOR FINISH COLORS ON ALL MILLWORK AND CASEWORK.
10. GLASS ATTACHED TO THE MILLWORK CABINETS AND COUNTERS IS TO BE PROVIDED BY THE MILLWORK COTNRACTOR.

## ARCHITECTURAL MILLWORK KEY

EXAMPLE:

B 1 1 1 **
- B — BASE CABINET *
- 1 — ONE DRAWER
- 1 — ONE DOOR
- 1 — ONE ADJUSTABLE SHELF
- ** — ACCESSORY (IF NOTED)

W 0 2 1 **
- W — WALL CABINET *
- 0 — ZERO DRAWERS
- 2 — TWO DOORS
- 1 — ONE ADJUSTABLE SHELF
- ** — ACCESSORY (IF NOTED)



T 0 2 5 L
- T — TALL CABINET *
- 5 — FIVE ADJUSTABLE SHELF
- 2 — TWO DOORS
- 0 — ZERO DRAWERS
- L — LOCKS AT DOORS

*NOTE:

| | |
|---|---|
| SB | DENOTES SINK BASE CABINET |
| TW | DENOTES TALL WARDROBE CABINET |
| FMD | DENOTES FRAMED PERFORATED METAL PANEL DOOR |
| FGD | DENOTES FRAMED GLASS PANEL DOOR |

**NOTE:

| | |
|---|---|
| L | DENOTES LOCKS AT DOOR(S) / DRAWER(S) |
| F | DENOTES FILE DRAWER(S) |

CABINET MEASURMENTS SHOWN ARE ACTUAL SIZES, BASE CABINET HEIGHTS ALLOW FOR A COUNTERTOP 1 1/2" THICK CABINETS ARE MEASURED FROM THE BACK TO THE FACE OF THE DOOR OR DRAWER FRONT (WHERE APPLICABLE).
ALL CABINET INTERIORS, WHETHER CONCELED BEHIND DOORS OR OPEN, ARE STANDARD MELAMINE LAMINATE AS PER SPECIFICATIONS.


VCBO
ARCHITECTURE
VALENTINER
CRANE
BRUNJES
ONYON

REGISTERED ARCHITECT
No. 13392
BRENT R. TIPPETS
10-2-12
STATE OF UTAH

VCBO ARCHITECTURE
524 SOUTH 600 EAST
SALT LAKE CITY, UT 84102
Phone: (801) 575-8800
Fax: (801) 531-9850
WWW: www.vcbo.com


DFCM CODE COMPLIANCE STAMP

# Student Activity Center
## Stromberg Addition - BID SET
Weber State University
3750 Harrison Blvd. Ogden, UT 84408

| Rev # | Date | Description |
|---|---|---|

Job # 12475
CAD File
Drawn Author Checked Checker
Date 10.03.2012
Owner # DFCM #12031810

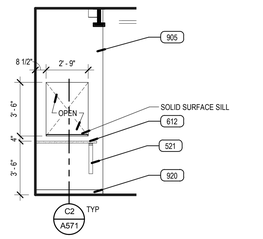
LEVEL 01 INTERIOR ELEVATIONS

A410.8

10/3/2012 3:20:48 PM

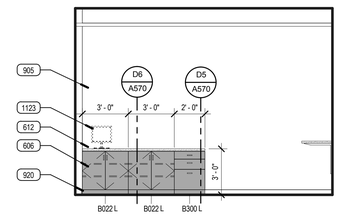
## KEYED NOTES

| | |
|---|---|
| 307 | CONCRETE HOUSEKEEPING PAD |
| 501 | STEEL BEAM PAINTED WHERE EXPOSED |
| 521 | STEEL ANGLE BRACKET |
| 606 | WALL MOUNTED BASE CABINET WITH BLOCKING |
| 611 | PLASTIC LAMINATE COUNTERTOP |
| 612 | QUARTZ COUNTERTOP |
| 800 | DOOR & FRAME |
| 905 | 5/8" GYP. BD. PAINTED WHERE EXPOSED |
| 920 | SCHEDULED BASE |
| 1123 | COMPUTER, NIC |
| 2300 | MECHANICAL DUCT PAINTED WHERE EXPOSED |
| 2305 | MECHANICAL EQUIPMENT |
| 2603 | ELECTRIC PANEL |
| 2610 | ELECTRICAL EQUIPMENT |



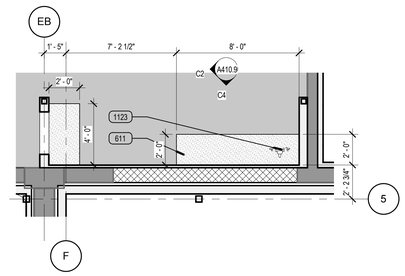

C2 COMPUTER STATION NORTH

SCALE: 1/4" = 1'-0"



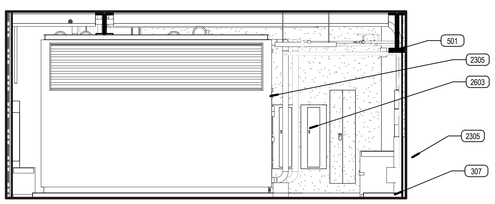

C4 COMPUTER STATION EAST VIEW

SCALE: 1/4" = 1'-0"



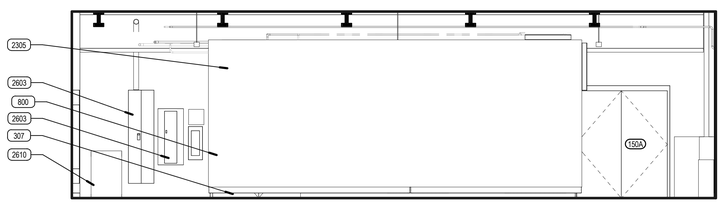

C5 COMPUTER STATION PLAN

SCALE: 1/4" = 1'-0"



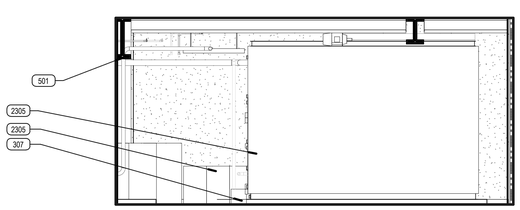

B2 MECHANICAL 150 SOUTH ELEV.

SCALE: 1/4" = 1'-0"



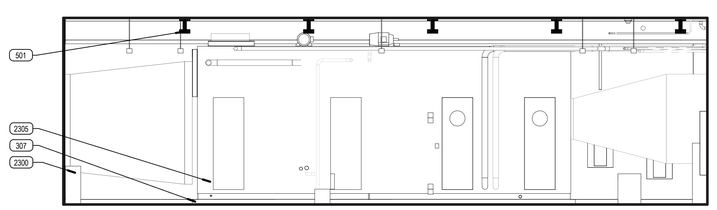

B5 MECHANICAL 150 WEST ELEV.

SCALE: 1/4" = 1'-0"




A2 MECHANICAL 150 NORTH ELEV.

SCALE: 1/4" = 1'-0"




A5 MECHANICAL 150 EAST ELEV.

SCALE: 1/4" = 1'-0"

## MILLWORK LEGEND

GENERAL NOTE: WALL MOUNTED MECHANICAL AND ELECTRICAL DEVICES, SUCH AS, BUT NOT LIMITED TO: POWER, DATA, AV OUTLETS, HORNSTROBES, SWITCHES, CO2 SENSORS AND THERMOSTATS, ARE TO BE INSTALLED AS LOCATED ON THE ARCHITECTURAL ELEVAITONS. MECHANICAL AND ELECTRICAL CONTRACTORS ARE TO COORDINATE WITH STUD FRAMING PRIOR TO ROUGH-IN TO ENSURE PRECISE LOCATIONS. REFER TO MECHANICAL AND ELECTRICAL DRAWINGS AND SPECIFICATIOSN FOR TYPE AND QUANTITY. WHERE NOT INDICATED REFER TO AXXX/XX FOR MOUNTING LOCATION GUIDELINES.

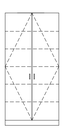
1. ALL MILLWORK DIMENSIONED FROM BASE TO TOP OF IDENTIFIED COUNTERTOP, TYP.
2. CABINET DEPTH IS MEASURED FROM THE WALL TO THE FACE OF THE DOOR OR DRAWER FRONT (WHERE APPLICABLE)
3. PROVIDE BASE AT ALL CABINET TOE SPACE, UNLESS NOTED OTHERWISE.
4. PROVIDE GROMMET WHERE "G" IS LAELED ON PLANS OR ELEVATIONS.
5. ALL COUNTERTOPS AT SINK LOCATIONS TO HAVE A 4" BACKSPLASH, UNLESS NOTED OTHERWISE. TO MATCH COUNTERTOP, ON BACK AND SIDE WALLS.
6. PROVIDE FILLER PANESL TO SEAL SIDES AND TOPS OF ALL CABINETS PLACED AT AN ANGLE TO ADJACENT WALL(S).
7. ALL MILLWORK TO BE FINISHED ON ENDS, TYP.
8. CONTRACTOR TO PROVIDE BLOCKING BEHIND ALL CABINETS, AS WELL AS ALL WALL MOUNTED ACCESSORIES, INCLUDING WHITE BOARDS, TACKBOARDS, TOILET AND URINAL PARTITIONS AND TOILET ROOM ACCESSORIES, ETC.... NOTE: ONLY 2X WOOD BLOCKING IS ACCEPTABLE BEHIND MILLWORK AND TOILET ROOM PARTIITONS.
9. REFER TO SPECIFICATIONS FOR FINISH COLORS ON ALL MILLWORK AND CASEWORK.
10. GLASS ATTACHED TO THE MILLWORK CABINETS AND COUNTERS IS TO BE PROVIDED BY THE MILLWORK COTNRACTOR.

## ARCHITECTURAL MILLWORK KEY

EXAMPLE:

B 1 1 1 **
- ACCESSORY (IF NOTED)
- ONE ADJUSTABLE SHELF
- ONE DOOR
- ONE DRAWER
- BASE CABINET *

W 0 2 1 **
- ACCESSORY (IF NOTED)
- ONE ADJUSTABLE SHELF
- TWO DOORS
- ZERO DRAWERS
- WALL CABINET *



T 0 2 5 L
- LOCKS AT DOORS
- FIVE ADJUSTABLE SHELF
- TWO DOORS
- ZERO DRAWERS
- TALL CABINET *

*NOTE:

| | |
|---|---|
| SB | DENOTES SINK BASE CABINET |
| TW | DENOTES TALL WARDROBE CABINET |
| FMD | DENOTES FRAMED PERFORATED METAL PANEL DOOR |
| FGD | DENOTES FRAMED GLASS PANEL DOOR |

**NOTE:

| | |
|---|---|
| L | DENOTES LOCKS AT DOOR(S) / DRAWER(S) |
| F | DENOTES FILE DRAWER(S) |

CABINET MEASURMENTS SHOWN ARE ACTUAL SIZES, BASE CABINET HEIGHTS ALLOW FOR A COUNTERTOP 1 1/2" THICK CABINETS ARE MEASURED FROM THE BACK TO THE FACE OF THE DOOR OR DRAWER FRONT (WHERE APPLICABLE).
ALL CABINET INTERIORS, WHETHER CONCELED BEHIND DOORS OR OPEN, ARE STANDARD MELAMINE LAMINATE AS PER SPECIFICATIONS.


VCBO
ARCHITECTURE
VALENTINER
CRANE
BRUNJES
ONYON

UTAH LICENSED ARCHITECT
No. 13392
BRENT R. TIPPETS
10-2-12
STATE OF UTAH

VCBO ARCHITECTURE
524 SOUTH 600 EAST
SALT LAKE CITY, UT 84102
Phone: (801) 575-8800
Fax: (801) 531-9850
WWW: www.vcbo.com


DFCM CODE COMPLIANCE STAMP

# Student Activity Center
Stromberg Addition - BID SET
Weber State University
3750 Harrison Blvd. Ogden, UT 84408

| Rev # | Date | Description |
|---|---|---|

Job # 12475
CAD File
Drawn Author Checked Checker
Date 10.03.2012
Owner # DFCM #12031810

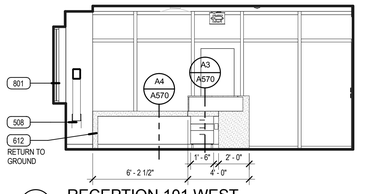
LEVEL 01 INTERIOR ELEVATIONS

A410.9

10/3/2012 3:20:58 PM

## KEYED NOTES

| | |
|---|---|
| 508 | STEEL GIRDER PAINTED WHERE EXPOSED |
| 509 | CROSS BRACING PAINTED WHERE EXPOSED |
| 612 | QUARTZ COUNTERTOP |
| 623 | MOBILE BASE CABINET |
| 800 | DOOR & FRAME |
| 801 | WINDOW SYSTEM |
| 905 | 5/8" GYP. BD. PAINTED WHERE EXPOSED |
| 910 | SUSPENDED GYP. BD. CEILING SYSTEM |
| 924 | WOOD VENEER |
| 2300 | MECHANICAL DUCT PAINTED WHERE EXPOSED |




B3 RECEPTION 101 WEST

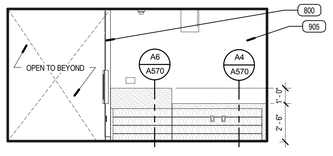
SCALE: 1/4" = 1'-0"

0' 2' 4' 8' 16'

B4 RECEPTION 101 NORTH

SCALE: 1/4" = 1'-0"

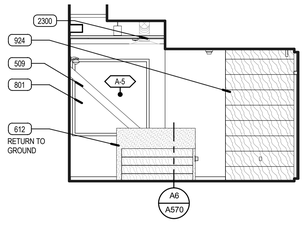
0' 2' 4' 8' 16'




A2 RECEPTION 101 EAST ELEV.

SCALE: 1/4" = 1'-0"

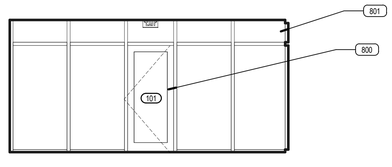
0' 2' 4' 8' 16'




A3 RECEPTION 101 SOUTH ELEV.

SCALE: 1/4" = 1'-0"

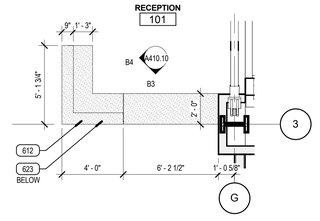
0' 2' 4' 8' 16'




A4 RECEPTION 101 WEST ELEV.

SCALE: 1/4" = 1'-0"

0' 2' 4' 8' 16'




A5 RECEPTION COUNTER

SCALE: 1/4" = 1'-0"

0' 2' 4' 8' 16'

10/3/2012 3:21:06 PM

VCBO

ARCHITECTURE
VALENTINER
CRANE
BRUNJES
ONYON

LICENSED ARCHITECT
No. 13392
BRENT R. TIPPETS
10-2-12
STATE OF UTAH


VCBO ARCHITECTURE
524 SOUTH 600 EAST
SALT LAKE CITY, UT 84102
Phone: (801) 575-8800
Fax: (801) 531-9850
WWW: www.vcbo.com


DFCM CODE COMPLIANCE STAMP

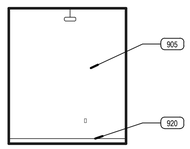
# Student Activity Center
## Stromberg Addition - BID SET
Weber State University
3750 Harrison Blvd. Ogden, UT 84408

| Rev # | Date | Description |
|---|---|---|

Job # 12475
CAD File
Drawn Author Checked Checker
Date 10.03.2012
Owner # DFCM #12031810

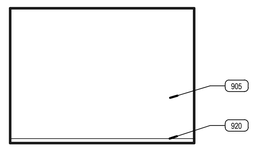
LEVEL 01 INTERIOR ELEVATIONS

A410.10



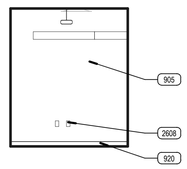

E2 CONSULT 210B NORTH ELEV.

SCALE: 1/4" = 1'-0"



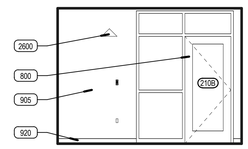

E3 CONSULT 210B EAST ELEV.

SCALE: 1/4" = 1'-0"



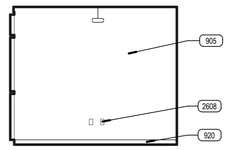

E4 CONSULT 210B SOUTH ELEV.

SCALE: 1/4" = 1'-0"



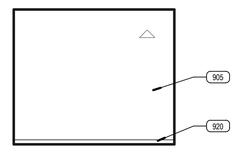

E5 CONSULT 210B WEST ELEV.

SCALE: 1/4" = 1'-0"



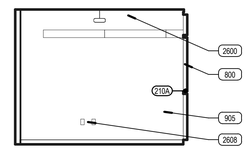

D2 OFFICE 210A NORTH ELEV.

SCALE: 1/4" = 1'-0"



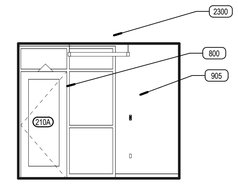

D3 OFFICE 210A EAST ELEV.

SCALE: 1/4" = 1'-0"



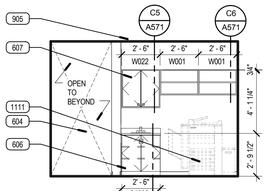

D4 OFFICE 210A SOUTH ELEV.

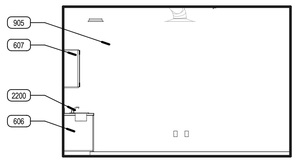
SCALE: 1/4" = 1'-0"

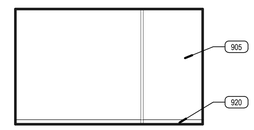


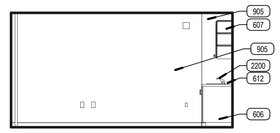

D5 OFFICE 210A WEST ELEV.

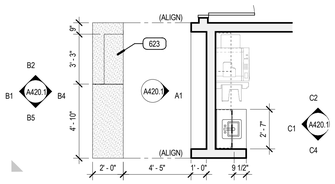
SCALE: 1/4" = 1'-0"




C1 WORK STATION 210D NORTH ELEV.

SCALE: 1/4" = 1'-0"

C2 WORK STATION 210D EAST ELEV.

SCALE: 1/4" = 1'-0"

C3 WORK STATION 210D SOUTH ELEV.

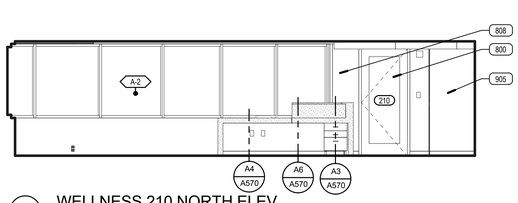
SCALE: 1/4" = 1'-0"

C4 WORK STATION 210D WEST ELEV.

SCALE: 1/4" = 1'-0"

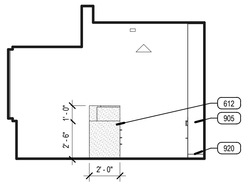
C5 WELLNESS CENTER

SCALE: 1/4" = 1'-0"



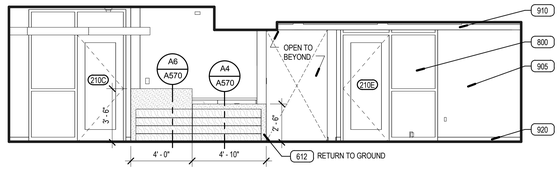

B1 WELLNESS 210 NORTH ELEV.

SCALE: 1/4" = 1'-0"



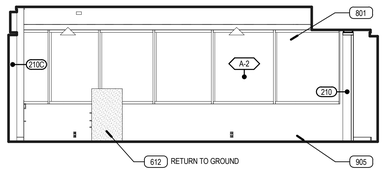

B2 WELLNESS 210 EAST ELEV.

SCALE: 1/4" = 1'-0"



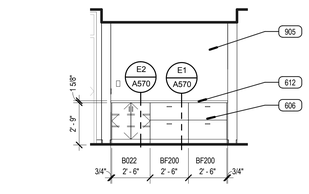

B4 WELLNESS 210 SOUTH ELEV.

SCALE: 1/4" = 1'-0"



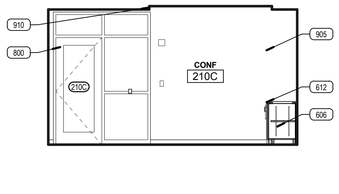

B5 WELLNESS 210 WEST ELEV.

SCALE: 1/4" = 1'-0"



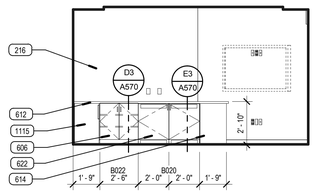

A1 WELLNESS BACK COUNTER

SCALE: 1/4" = 1'-0"



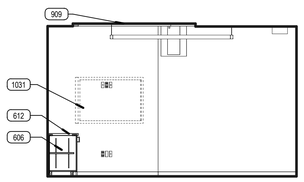

A2 CONF. 210C NORTH ELEV.

SCALE: 1/4" = 1'-0"



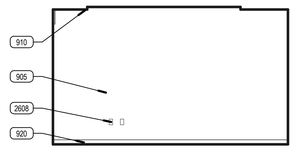

A3 CONF. 210C EAST ELEV.

SCALE: 1/4" = 1'-0"



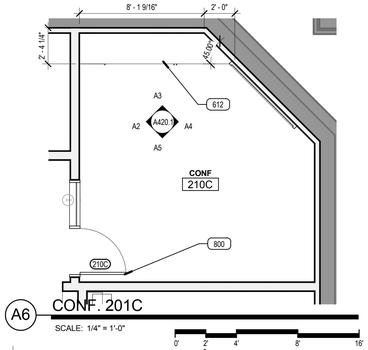

A4 CONF. 210C SOUTH ELEV.

SCALE: 1/4" = 1'-0"




A5 CONF. 210C WEST ELEV.

SCALE: 1/4" = 1'-0"




A6 CONF. 201C

SCALE: 1/4" = 1'-0"

## KEYED NOTES

| | |
|---|---|
| 216 | EXG WALL |
| 604 | SOLID SURFACE SILL |
| 606 | WALL MOUNTED BASE CABINET WITH BLOCKING |
| 607 | WALL MOUNTED UPPER CABINET WITH BLOCKING |
| 612 | QUARTZ COUNTERTOP |
| 614 | FILLER PANEL |
| 622 | WALL MOUNTED AV BASE CABINET WITH BLOCKING |
| 623 | MOBILE BASE CABINET |
| 800 | DOOR & FRAME |
| 801 | WINDOW SYSTEM |
| 808 | STOREFRONT SYSTEM |
| 905 | 5/8" GYP. BD. PAINTED WHERE EXPOSED |
| 909 | SUSPENDED ACOUSTICAL TILE CEILING |
| 910 | SUSPENDED GYP. BD. CEILING SYSTEM |
| 920 | SCHEDULED BASE |
| 1031 | LCD SCREEN NIC |
| 1111 | COPIER, NIC |
| 1115 | UNDER CABINET REFRIGERATOR, NIC |
| 2200 | SINK AND FAUCET |
| 2300 | MECHANICAL DUCT PAINTED WHERE EXPOSED |
| 2600 | LIGHT FIXTURE |
| 2608 | OUTLET |

## MILLWORK LEGEND

GENERAL NOTE: WALL MOUNTED MECHANICAL AND ELECTRICAL DEVICES, SUCH AS, BUT NOT LIMITED TO; POWER, DATA, AV OUTLETS, HORNSTROBES, SWITCHES, CO2 SENSORS AND THERMOSTATS, ARE TO BE INSTALLED AS LOCATED ON THE ARCHITECTURAL ELEVAITONS, MECHANICAL AND ELECTRICAL CONTRACTORS ARE TO COORDINATE WITH STUD FRAMING PRIOR TO ROUGH-IN TO ENSURE PRECISE LOCATIONS. REFER TO MECHANICAL AND ELECTRICAL DRAWINGS AND SPECIFICATION FOR TYPE AND QUANTITY. WHERE NOT INDICATED REFER TO AXXX/XX FOR MOUNTING LOCATION GUIDELINES.

1. ALL MILLWORK DIMENSIONED FROM BASE TO TOP OF IDENTIFIED COUNTERTOP, TYP.
2. CABINET DEPTH IS MEASURED FROM THE WALL TO THE FACE OF THE DOOR OR DRAWER FRONT (WHERE APPLICABLE)
3. PROVIDE BASE AT ALL CABINET TOE SPACE, UNLESS NOTED OTHERWISE.
4. PROVIDE GROMMET WHERE "G" IS LAELED ON PLANS OR ELEVATIONS.
5. ALL COUNTERTOPS AT SINK LOCATIONS TO HAVE A 4" BACKSPLASH, UNLESS NOTED OTHERWISE, TO MATCH COUNTERTOP, ON BACK AND SIDE WALLS.
6. PROVIDE FILLER PANESL TO SEAL SIDES AND TOPS OF ALL CABINETS PLACED AT AN ANGLE TO ADJACENT WALL(S).
7. ALL MILLWORK TO BE FINISHED ON ENDS, TYP.
8. CONTRACTOR TO PROVIDE BLOCKING BEHIND ALL CABINETS, AS WELL AS ALL WALL MOUNTED ACCESSORIES, INCLUDING WHITE BOARDS, TACKBOARDS, TOILET AND URINAL PARTITIONS AND TOILET ROOM ACCESSORIES, ETC... NOTE: ONLY 2X WOOD BLOCKING IS ACCEPTABLE BEHIND MILLWORK AND TOILET ROOM PARTIITONS.
9. REFER TO SPECIFICATIONS FOR FINISH COLORS ON ALL MILLWORK AND CASEWORK.
10. GLASS ATTACHED TO THE MILLWORK CABINETS AND COUNTERS IS TO BE PROVIDED BY THE MILLWORK COTNRACTOR.

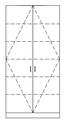
## ARCHITECTURAL MILLWORK KEY

EXAMPLE:

B 1 1 1 *
- ACCESSORY (IF NOTED)
- ONE ADJUSTABLE SHELF
- ONE DOOR
- ONE DRAWER
- BASE CABINET *



W 0 2 1 **
- ACCESSORY (IF NOTED)
- ONE ADJUSTABLE SHELF
- TWO DOORS
- ZERO DRAWERS
- WALL CABINET *



T 0 2 5 L
- LOCKS AT DOORS
- FIVE ADJUSTABLE SHELF
- TWO DOORS
- ZERO DRAWERS
- TALL CABINET *

*NOTE:

| | |
|---|---|
| SB | DENOTES SINK BASE CABINET |
| TW | DENOTES TALL WARDROBE CABINET |
| FMD | DENOTES FRAMED PERFORATED METAL PANEL DOOR |
| FGD | DENOTES FRAMED GLASS PANEL DOOR |

**NOTE:

| | |
|---|---|
| L | DENOTES LOCKS AT DOOR(S) / DRAWER(S) |
| F | DENOTES FILE DRAWER(S) |

CABINET MEASURMENTS SHOWN ARE ACTUAL SIZES, BASE CABINET HEIGHTS ALLOW FOR A COUNTERTOP 1 1/2" THICK CABINETS ARE MEASURED FROM THE BACK TO THE FACE OF THE DOOR OR DRAWER FRONT (WHERE APPLICABLE).
ALL CABINET INTERIORS, WHETHER CONCELED BEHIND DOORS OR OPEN, ARE STANDARD MELAMINE LAMINATE AS PER SPECIFICATIONS.

VCBO
ARCHITECTURE
VALENTINER
CRANE
BRUNJES
ONYON

VCBO ARCHITECTURE
524 SOUTH 600 EAST
SALT LAKE CITY, UT 84102
Phone: (801) 575-8800
Fax: (801) 531-9850
WWW: www.vcbo.com

LICENSED ARCHITECT
STATE OF UTAH
RENT R. TIPPETS
10-2-12

DFCM CODE COMPLIANCE STAMP

# Student Activity Center
## Stromberg Addition - BID SET
Weber State University
3750 Harrison Blvd. Ogden, UT 84408

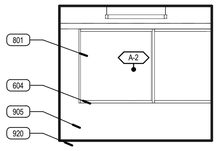
| Rev # | Date | Description |
|---|---|---|

Job # 12475
CAD File
Drawn Author Checked Checker
Date 10.03.2012
Owner # DFCM #12031810

LEVEL 02 INTERIOR ELEVATIONS

A420.1

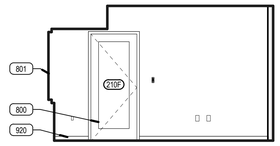
10/3/2012 3:21:44 PM




E2 OFFICE 210F NORTH

SCALE: 1/4" = 1'-0"

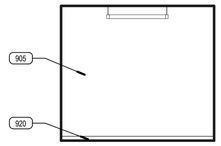
0' 2' 4' 8' 16'




E3 OFFICE 210F EAST

SCALE: 1/4" = 1'-0"

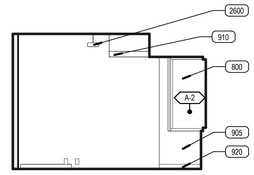
0' 2' 4' 8' 16'




E4 OFFICE 210F SOUTH

SCALE: 1/4" = 1'-0"

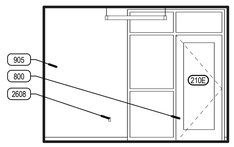
0' 2' 4' 8' 16'




E5 OFFICE 210F WEST

SCALE: 1/4" = 1'-0"

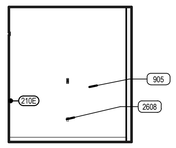
0' 2' 4' 8' 16'




D2 CONSULT 210E NORTH

SCALE: 1/4" = 1'-0"

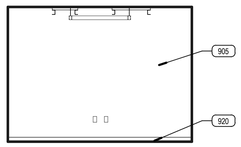
0' 2' 4' 8' 16'




D3 CONSULT 210E EAST

SCALE: 1/4" = 1'-0"

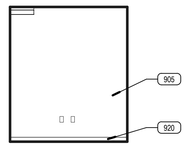
0' 2' 4' 8' 16'




D4 CONSULT 210E SOUTH

SCALE: 1/4" = 1'-0"

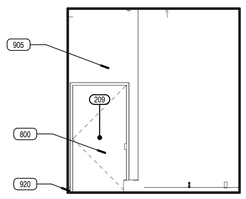
0' 2' 4' 8' 16'




D5 CONSULT 210 E WEST

SCALE: 1/4" = 1'-0"

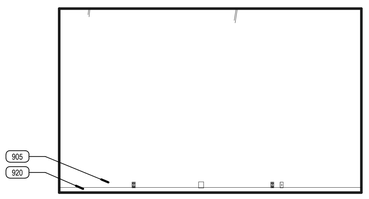
0' 2' 4' 8' 16'




C2 STOR / MAINT. 209 NORTH

SCALE: 1/4" = 1'-0"

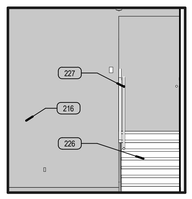
0' 2' 4' 8' 16'




C3 STOR / MAINT. 209 EAST

SCALE: 1/4" = 1'-0"

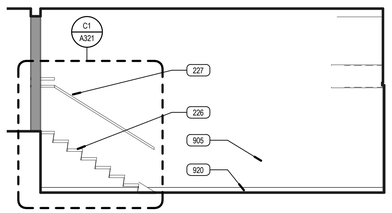
0' 2' 4' 8' 16'




C4 STOR / MAINT. 209 SOUTH

SCALE: 1/4" = 1'-0"

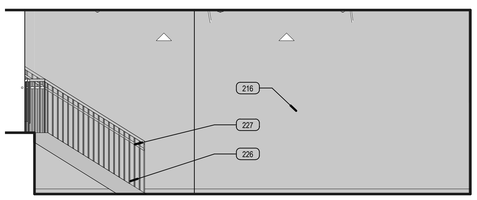
0' 2' 4' 8' 16'




C5 STOR/ MAINT. 209 WEST

SCALE: 1/4" = 1'-0"

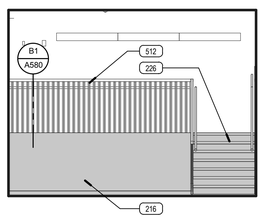
0' 2' 4' 8' 16'




B1 STORAGE 209B NORTH

SCALE: 1/4" = 1'-0"

0' 2' 4' 8' 16'




B2 STORAGE 209B WEST

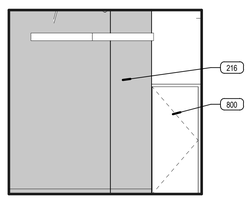
SCALE: 1/4" = 1'-0"

0' 2' 4' 8' 16'

B4 STORAGE 209B SOUTH

SCALE: 1/4" = 1'-0"

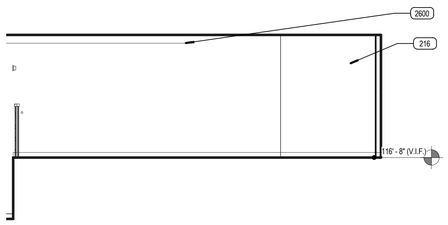
0' 2' 4' 8' 16'




B5 STORAGE 209B - EAST

SCALE: 1/4" = 1'-0"

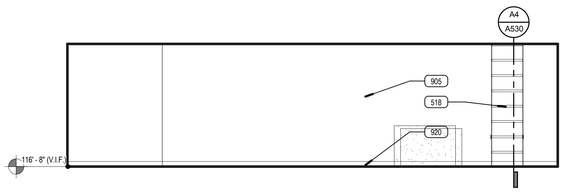
0' 2' 4' 8' 16'




A1 EXG. STORAGE 209A SOUTH

SCALE: 1/4" = 1'-0"

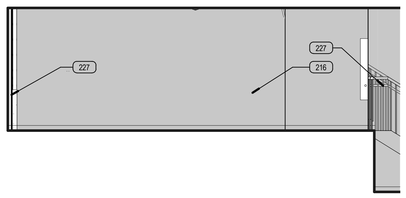
0' 2' 4' 8' 16'




A3 EXG. STORAGE 209A WEST

SCALE: 1/4" = 1'-0"

0' 2' 4' 8' 16'




A4 EXG. STORAGE 209A NORTH

SCALE: 1/4" = 1'-0"

0' 2' 4' 8' 16'

A6 EXG. STORAGE 209A EAST

SCALE: 1/4" = 1'-0"

0' 2' 4' 8' 16'

## KEYED NOTES

| | |
|---|---|
| 212 | EXG LIGHT FIXTURES |
| 216 | EXG WALL |
| 226 | EXG STAIR |
| 227 | EXG GUARDRAIL |
| 512 | 1-1/2" STEEL PIPE GUARDRAIL PAINTED TYP. |
| 518 | STEEL LADDER |
| 604 | SOLID SURFACE SILL |
| 800 | DOOR & FRAME |
| 801 | WINDOW SYSTEM |
| 905 | 5/8" GYP. BD. PAINTED WHERE EXPOSED |
| 910 | SUSPENDED GYP. BD. CEILING SYSTEM |
| 920 | SCHEDULED BASE |
| 2300 | MECHANICAL DUCT PAINTED WHERE EXPOSED |
| 2600 | LIGHT FIXTURE |
| 2608 | OUTLET |

## MILLWORK LEGEND

GENERAL NOTE: WALL MOUNTED MECHANICAL AND ELECTRICAL DEVICES, SUCH AS, BUT NOT LIMITED TO: POWER, DATA, AV OUTLETS, HORNSTROBES, SWITCHES, CO2 SENSORS AND THERMOSTATS, ARE TO BE INSTALLED AS LOCATED ON THE ARCHITECTURAL ELEVATIONS. MECHANICAL AND ELECTRICAL CONTRACTORS ARE TO COORDINATE WITH STUD FRAMING PRIOR TO ROUGH-IN TO ENSURE PRECISE LOCATIONS. REFER TO MECHANICAL AND ELECTRICAL DRAWINGS AND SPECIFICATIOSN FOR TYPE AND QUANTITY. WHERE NOT INDICATED REFER TO AXXXXXX FOR MOUNTING LOCATION GUIDELINES.

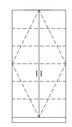
1. ALL MILLWORK DIMENSIONED FROM BASE TO TOP OF IDENTIFIED COUNTERTOP, TYP.
2. CABINET DEPTH IS MEASURED FROM THE WALL TO THE FACE OF THE DOOR OR DRAWER FRONT (WHERE APPLICABLE)
3. PROVIDE BASE AT ALL CABINET TOE SPACE, UNLESS NOTED OTHERWISE.
4. PROVIDE GROMMET WHERE "G" IS LAELED ON PLANS OR ELEVATIONS.
5. ALL COUNTERTOPS AT SINK LOCATIONS TO HAVE A 4" BACKSPLASH, UNLESS NOTED OTHERWISE, TO MATCH COUNTERTOP, ON BACK AND SIDE WALLS.
6. PROVIDE FILLER PANESL TO SEAL SIDES AND TOPS OF ALL CABINETS PLACED AT AN ANGLE TO ADJACENT WALL(S).
7. ALL MILLWORK TO BE FINISHED ON ENDS, TYP.
8. CONTRACTOR TO PROVIDE BLOCKING BEHIND ALL CABINETS, AS WELL AS ALL WALL MOUNTED ACCESSORIES, INCLUDING WHITE BOARDS, TACKBOARDS, TOILET AND URINAL PARTITIONS AND TOILET ROOM ACCESSORIES, ETC... NOTE: ONLY 2X WOOD BLOCKING IS ACCEPTABLE BEHIND MILLWORK AND TOILET ROOM PARTITIONS.
9. REFER TO SPECIFICATIONS FOR FINISH COLORS ON ALL MILLWORK AND CASEWORK.
10. GLASS ATTACHED TO THE MILLWORK CABINETS AND COUNTERS IS TO BE PROVIDED BY THE MILLWORK COTNRACTOR.

## ARCHITECTURAL MILLWORK KEY

EXAMPLE:

B 1 1 1 **
- ACCESSORY (IF NOTED)
- ONE ADJUSTABLE SHELF
- ONE DOOR
- ONE DRAWER
- BASE CABINET *

W 0 2 1 **
- ACCESSORY (IF NOTED)
- ONE ADJUSTABLE SHELF
- TWO DOORS
- ZERO DRAWERS
- WALL CABINET *



T 0 2 5 L
- LOCKS AT DOORS
- FIVE ADJUSTABLE SHELF
- TWO DOORS
- ZERO DRAWERS
- TALL CABINET *

*NOTE:

| | |
|---|---|
| SB | DENOTES SINK BASE CABINET |
| TW | DENOTES TALL WARDROBE CABINET |
| FMD | DENOTES FRAMED PERFORATED METAL PANEL DOOR |
| FGD | DENOTES FRAMED GLASS PANEL DOOR |

**NOTE:

| | |
|---|---|
| L | DENOTES LOCKS AT DOOR(S) / DRAWER(S) |
| F | DENOTES FILE DRAWER(S) |

CABINET MEASURMENTS SHOWN ARE ACTUAL SIZES, BASE CABINET HEIGHTS ALLOW FOR A COUNTERTOP 1 1/2" THICK CABINETS ARE MEASURED FROM THE BACK TO THE FACE OF THE DOOR OR DRAWER FRONT (WHERE APPLICABLE).
ALL CABINET INTERIORS, WHETHER CONCELED BEHIND DOORS OR OPEN, ARE STANDARD MELAMINE LAMINATE AS PER SPECIFICATIONS.

VCBO
ARCHITECTURE
VALENTINER
CRANE
BRUNJES
ONYON

REGISTERED ARCHITECT
5339
BRENT R. TIPPETS
10-2-12
STATE OF UTAH

VCBO ARCHITECTURE
524 SOUTH 600 EAST
SALT LAKE CITY, UT 84102
Phone: (801) 575-8800
Fax: (801) 531-9850
WWW: www.vcbo.com

DFCM CODE COMPLIANCE STAMP

# Student Activity Center
Stromberg Addition - BID SET
Weber State University
3750 Harrison Blvd. Ogden, UT 84408

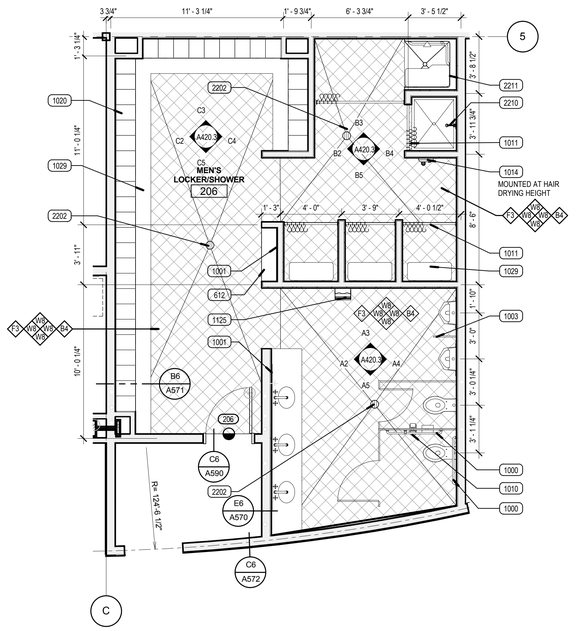
| Rev # | Date | Description |
|---|---|---|

Job # 12475
CAD File
Drawn Author Checked Checker
Date 10.03.2012
Owner # DFCM #12031810

LEVEL 02 INTERIOR ELEVATIONS

A420.2

10/3/2012 3:22:19 PM



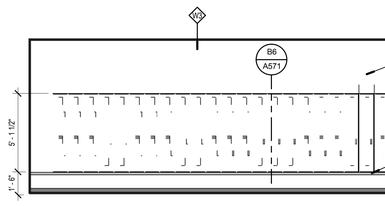

## D5 MEN'S 206 ENLARGED PLAN

SCALE: 1/4" = 1'-0"

0' 2' 4' 8' 16'

## KEYED NOTES

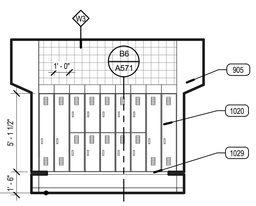
| | |
|---|---|
| 403 | 8"X8"X16" STANDARD INTERGRAL COLOR CMU |
| 612 | QUARTZ COUNTERTOP |
| 800 | DOOR & FRAME |
| 905 | 5/8" GYP. BD. PAINTED WHERE EXPOSED |
| 914 | CERAMIC WALL TILE |
| 1000 | GRAB BAR |
| 1001 | MIRROR |
| 1002 | TOILET PARTITION |
| 1003 | URINAL SCREEN |
| 1010 | TOILET PAPER DISPENSER, NIC |
| 1011 | SHOWER CURTAIN, ROD AND HOOKS |
| 1014 | ELECTRIC HAND / HAIR DRYER |
| 1020 | PHENOLIC LOCKER-SEE ELEVATIONS |
| 1029 | BENCH/ SEAT |
| 1033 | STEEL PANEL BEHIND FIXTURE |
| 1125 | AIR BLADE HAND DRYER |
| 2200 | SINK AND FAUCET |
| 2202 | FLOOR DRAIN, SEE DETAIL B6/A590 |
| 2208 | TOILET |
| 2209 | URINAL |
| 2210 | SHOWER HEAD / FACEUP |
| 2211 | ADA SHOWER ENCLOSURE |




## C2 MEN'S 206 NORTH ELEV.

SCALE: 1/4" = 1'-0"

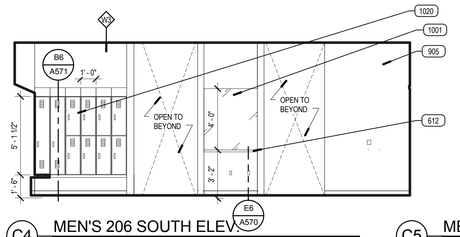
0' 2' 4' 8' 16'




## C3 MEN'S 206 EAST ELEV.

SCALE: 1/4" = 1'-0"

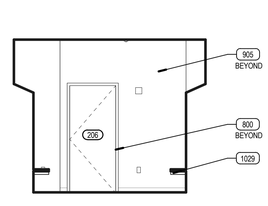
0' 2' 4' 8' 16'




## C4 MEN'S 206 SOUTH ELEV.

SCALE: 1/4" = 1'-0"

0' 2' 4' 8' 16'

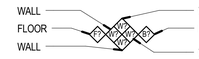



## C5 MEN'S 206 WEST ELEV.

SCALE: 1/4" = 1'-0"

0' 2' 4' 8' 16'

## FINISH PLAN SYMBOLS



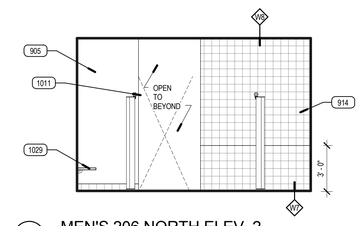

NOTE

SINGLE FINISH SYMBOLS INDICATE WHERE FINISHES ARE DIFFERENT FROM GENERAL ROOM FINISHES, OR PROVIDE ADDITIONAL FINISH INFORMATION

CHANGE AT FLOOR MATERIAL SEE DETAIL D1/A570 FLOOR TRANSITION

XXXX SIGNAGE TAG- SEE SIGNAGE SCHEDULE AND SHEET A800 FOR MORE INFORMATION

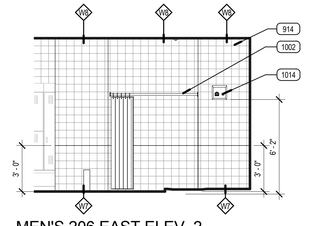
STAINLESS STEEL CORNER GUARD TO 4'-0" A.F.F.




## B2 MEN'S 206 NORTH ELEV. 2

SCALE: 1/4" = 1'-0"

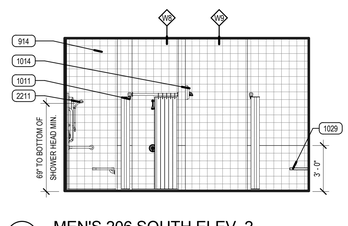
0' 2' 4' 8' 16'




## B3 MEN'S 206 EAST ELEV. 2

SCALE: 1/4" = 1'-0"

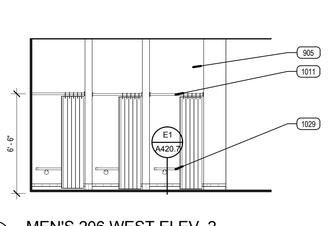
0' 2' 4' 8' 16'




## B4 MEN'S 206 SOUTH ELEV. 2

SCALE: 1/4" = 1'-0"

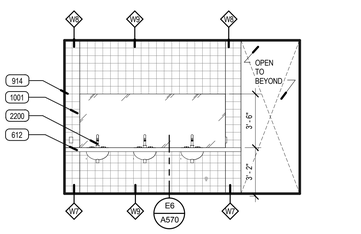
0' 2' 4' 8' 16'




## B5 MEN'S 206 WEST ELEV. 2

SCALE: 1/4" = 1'-0"

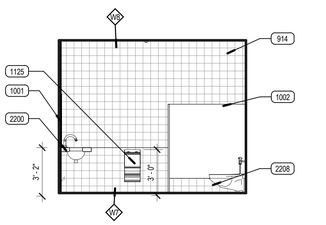
0' 2' 4' 8' 16'




## A2 MEN'S 206 NORTH ELEV. 3

SCALE: 1/4" = 1'-0"

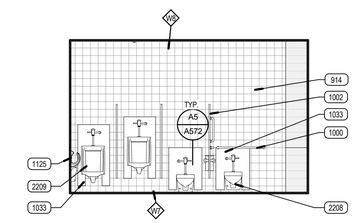
0' 2' 4' 8' 16'




## A3 MEN'S 206 EAST ELEV. 3

SCALE: 1/4" = 1'-0"

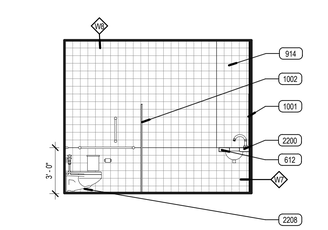
0' 2' 4' 8' 16'




## A4 MEN'S 206 SOUTH ELEV. 3

SCALE: 1/4" = 1'-0"

0' 2' 4' 8' 16'




## A5 MEN'S 206 WEST ELEV. 3

SCALE: 1/4" = 1'-0"

0' 2' 4' 8' 16'

## FINISH PLAN LEGEND

NOTE: REFER TO FINISH SCHEDULE IN SPECIFICATIONS, DIVISION 9, FOR INTERIOR FINISH SELECTIONS AND SPECIFICATIONS.

**WALL MATERIALS**

| | |
|---|---|
| W1 | PRIMED & PAINTED WALL SURFACE- GENERAL WHITE |
| W2 | PRIMED & PAINTED WALL SURFACE- ACCENT GRAY |
| W3 | PRIMED & PAINTED WALL SURFACE- ACCENT GREEN |
| W4 | PRIMED & PAINTED WALL SURFACE- ACCENT FULLY PURPLE |
| W5 | PRIMED & PAINTED WALL SURFACE- ACCENT CHARCOAL |
| W6 | NOT USED |
| W7 | WALL TILE - MOSA TILES GLOBAL COLLECTION 16650 GRAY |
| W8 | WALL TILE - MOSA TILES GLOBAL COLLECTION 16860 BEIGE |
| W9 | WALL TILE - MOSA TILES GLOBAL COLLECTION 20930 PURPLE |
| WE | EXISTING WALL FINISH |

**FLOOR MATERIALS**

| | |
|---|---|
| F1 | GENERAL CARPET - PATCRAFT 10294 IDEA, COLOR: 00590 MINDSET |
| F2 | ACCENT CARPET - PATCRAFT 10294 IDEA, COLOR 00100 INSIGHT |
| F3 | VINYL TILE FLOORING - ARMSTRONG STRIATIONS BBT, T 3608 WARM GRAY |
| F4 | MOSAIC FLOOR TILE - DALTILE KEYSTONES BLOCK RANDOM, DESERT GRAY SPECKLE |
| F5 | |
| F6 | RUBBER FLOORING - MONDO SPORT IMPACT 011 MEDIUM GREY |
| F7 | RUBBER FLOORING - MONDO SPORT IMPACT 018 DARK GREY |
| F8 | RUBBER FLOORING - MONDO SPORT IMPACT 026 PURPLE |
| F9 | RUNNING TRACK - MONDO |
| F10 | ATHLETIC WOODFLOOR |
| F11 | PORCELAIN TILE - 12X24 Q-STONE |
| F12 | ENTRANCE / WALK OFF MATTING CARPET SYSTEM |
| F13 | TRAFFIC COATING |
| F14 | SEALED CONCRETE |
| F15 | VCT |
| FE | EXISTING FLOOR MATERIAL |

**WOOD**

| | |
|---|---|
| WD1 | WOOD DOORS - VT INDUSTRIES WHITE MAPLE VENEER, CLEAR FINISH CL07 |
| WD2 | STAINED AND FINISHED MDF PANEL - LIGHT |
| WD3 | STAINED AND FINISHED MDF PANEL MDF - DARK |

**BASE MATERIALS**

| | |
|---|---|
| B1 | 4" RUBBER BASE - JOHNSONITE; 20 CHARCOAL |
| B2 | VENTED BASE - SEE DETAIL A4/A590 |
| B3 | CERAMIC TILE BASE |
| B4 | NO BASE - CAULK BETWEEN FLOOR & WALL |
| B5 | WRAP TRAFFIC COATING UP WALL 4" |
| BE | EXISTING BASE |

**SURFACE MATERIALS**

| | |
|---|---|
| PL1 | PLASTIC LAMINATE - WILSONART 7949K-18 ASIAN NIGHT (DARK GRAY) |
| PL2 | PLASTIC LAMINATE - WILSONART 4878-38 PEWTER MESH (LIGHT GRAY) |
| PL3 | PLASTIC LAMINATE - NEVAMAR VOUS TEMPEST VS6002T (MEDIUM GRAY) |
| PL4 | PLASTIC LAMINATE - NEVAMAR EXTREME GREEN BAMBOO TEXTURED WX5001T (GREEN) |
| SS1 | SOLID SURFACE - CAMBRIA WAVERTON 0250 (WHITE) |
| SS2 | SOLID SURFACE - CAMBRIA WAVERTON 0250 (WHITE) |
| PLE | EXISTING PLASTIC LAMINATE |
| SSE | EXISTING SOLID SURFACE |

VCBO
ARCHITECTURE
VALENTINER
CRANE
BRUNJES
ONYON

VCBO ARCHITECTURE
524 SOUTH 600 EAST
SALT LAKE CITY, UT 84102
Phone: (801) 575-8800
Fax: (801) 531-9850
WWW: www.vcbo.com

DFCM CODE COMPLIANCE STAMP

# Student Activity Center
## Stromberg Addition - BID SET
Weber State University
3750 Harrison Blvd. Ogden, UT 84408

| Rev # | Date | Description |
|---|---|---|

Job # 12475
CAD File
Drawn Author Checked Checker
Date 10.03.2012
Owner # DFCM #12031810

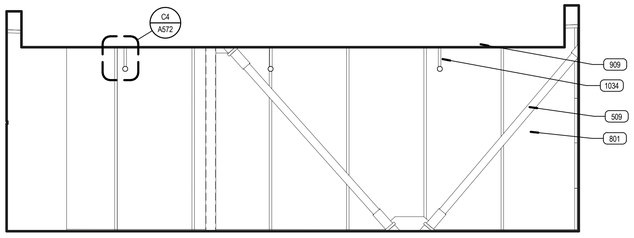
LEVEL 02 INTERIOR ELEVATIONS

A420.3

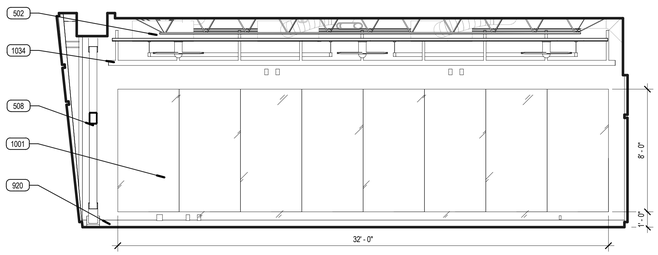
10/3/2012 3:22:35 PM

## KEYED NOTES

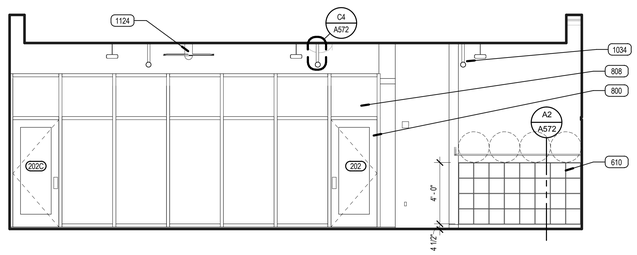
| | |
|---|---|
| 501 | STEEL BEAM PAINTED WHERE EXPOSED |
| 502 | STEEL JOIST PAINTED WHERE EXPOSED |
| 507 | STEEL COLUMN PAINTED WHERE EXPOSED |
| 508 | STEEL GIRDER PAINTED WHERE EXPOSED |
| 509 | CROSS BRACING PAINTED WHERE EXPOSED |
| 518 | STEEL LADDER |
| 610 | FREE STANDING STORAGE CUBBY CABINET |
| 719 | ROOF HATCH, SEE DETAIL D3/A530 |
| 800 | DOOR & FRAME |
| 801 | WINDOW SYSTEM |
| 808 | STOREFRONT SYSTEM |
| 905 | 5/8" GYP. BD. PAINTED WHERE EXPOSED |
| 909 | SUSPENDED ACOUSTICAL TILE CEILING |
| 920 | SCHEDULED BASE |
| 1001 | MIRROR |
| 1034 | CEILING MOUNTED FITNESS ANCHOR |
| 1120 | AV CABINET |
| 1124 | CEILING FAN |
| 2613 | ELECTRIC TELEPHONE PANEL |



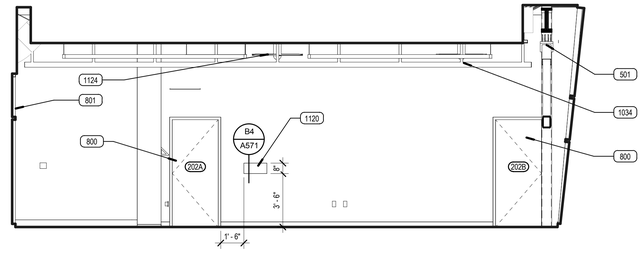

D3 GROUP FITNESS 202 SOUTH ELEV.
SCALE: 1/4" = 1'-0"



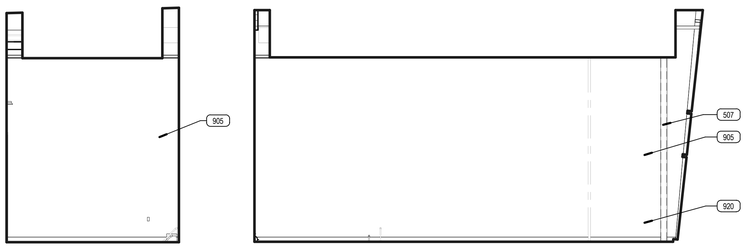

D5 GROUP FITNESS 202 WEST ELEV.
SCALE: 1/4" = 1'-0"




C3 GROUP FITNESS 202 NORTH ELEV.
SCALE: 1/4" = 1'-0"



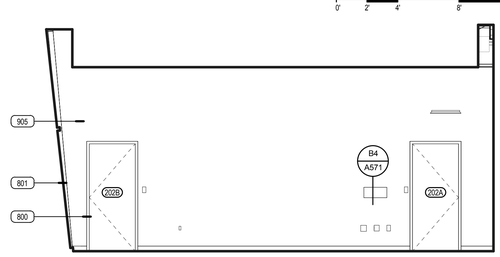

C5 GROUP FITNESS 202 EAST ELEV.
SCALE: 1/4" = 1'-0"



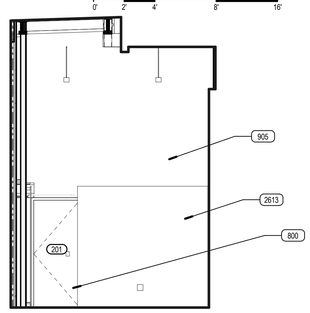

B1 STUDIO STORAGE 202A NORTH ELEV.
SCALE: 1/4" = 1'-0"

B2 STUDIO STORAGE 202A EAST ELEV.
SCALE: 1/4" = 1'-0"

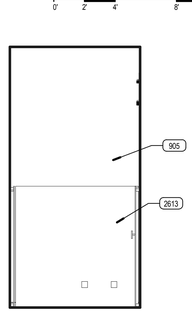
B3 STUDIO STORAGE 202A SOUTH ELEV.
SCALE: 1/4" = 1'-0"



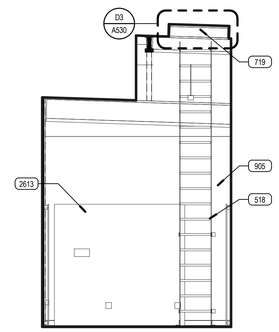

B5 STUDIO STORAGE 202A WEST ELEV.
SCALE: 1/4" = 1'-0"



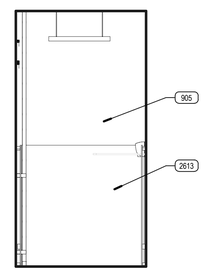

A2 COMM 201 NORTH ELEV.
SCALE: 1/4" = 1'-0"




A3 COMM 201 EAST ELEV.
SCALE: 1/4" = 1'-0"




A4 COMM 201 SOUTH ELEV.
SCALE: 1/4" = 1'-0"




A5 COMM 201 WEST ELEV.
SCALE: 1/4" = 1'-0"

## MILLWORK LEGEND

GENERAL NOTE: WALL MOUNTED MECHANICAL AND ELECTRICAL DEVICES, SUCH AS, BUT NOT LIMITED TO; POWER, DATA, AV OUTLETS, HORNSTROBES, SWITCHES, CO2 SENSORS AND THERMOSTATS, ARE TO BE INSTALLED AS LOCATED ON THE ARCHITECTURAL ELEVAITONS, MECHANICAL AND ELECTRICAL CONTRACTORS ARE TO COORDINATE WITH STUD FRAMING PRIOR TO ROUGH-IN TO ENSURE PRECISE LOCATIONS. REFER TO MECHANICAL AND ELECTRICAL DRAWINGS AND SPECIFICATIOSN FOR TYPE AND QUANTITY. WHERE NOT INDICATED REFER TO AXXX/XX FOR MOUNTING LOCATION GUIDELINES.

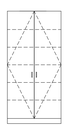
1. ALL MILLWORK DIMENSIONED FROM BASE TO TOP OF IDENTIFIED COUNTERTOP, TYP.
2. CABINET DEPTH IS MEASURED FROM THE WALL TO THE FACE OF THE DOOR OR DRAWER FRONT (WHERE APPLICABLE)
3. PROVIDE BASE AT ALL CABINET TOE SPACE, UNLESS NOTED OTHERWISE.
4. PROVIDE GROMMET WHERE "G" IS LAELED ON PLANS OR ELEVATIONS.
5. ALL COUNTERTOPS AT SINK LOCATIONS TO HAVE A 4" BACKSPLASH, UNLESS NOTED OTHERWISE, TO MATCH COUNTERTOP, ON BACK AND SIDE WALLS.
6. PROVIDE FILLER PANESL TO SEAL SIDES AND TOPS OF ALL CABINETS PLACED AT AN ANGLE TO ADJACENT WALL(S).
7. ALL MILLWORK TO BE FINISHED ON ENDS, TYP.
8. CONTRACTOR TO PROVIDE BLOCKING BEHIND ALL CABINETS, AS WELL AS ALL WALL MOUNTED ACCESSORIES, INCLUDING WHITE BOARDS, TACKBOARDS, TOILET AND URINAL PARTITIONS AND TOILET ROOM ACCESSORIES, ETC... NOTE: ONLY 2X WOOD BLOCKING IS ACCEPTABLE BEHIND MILLWORK AND TOILET ROOM PARTITONS.
9. REFER TO SPECIFICATIONS FOR FINISH COLORS ON ALL MILLWORK AND CASEWORK.
10. GLASS ATTACHED TO THE MILLWORK CABINETS AND COUNTERS IS TO BE PROVIDED BY THE MILLWORK COTNRACTOR.

## ARCHITECTURAL MILLWORK KEY

EXAMPLE:

B 1 1 1 **
- ACCESSORY (IF NOTED)
- ONE ADJUSTABLE SHELF
- ONE DOOR
- ONE DRAWER
- BASE CABINET *

W 0 2 1 **
- ACCESSORY (IF NOTED)
- ONE ADJUSTABLE SHELF
- TWO DOORS
- ZERO DRAWERS
- WALL CABINET *



T 0 2 5 L
- LOCKS AT DOORS
- FIVE ADJUSTABLE SHELF
- TWO DOORS
- ZERO DRAWERS
- TALL CABINET *

*NOTE:

| | |
|---|---|
| SB | DENOTES SINK BASE CABINET |
| TW | DENOTES TALL WARDROBE CABINET |
| FMD | DENOTES FRAMED PERFORATED METAL PANEL DOOR |
| FGD | DENOTES FRAMED GLASS PANEL DOOR |

**NOTE:

| | |
|---|---|
| L | DENOTES LOCKS AT DOOR(S) / DRAWER(S) |
| F | DENOTES FILE DRAWER(S) |

CABINET MEASURMENTS SHOWN ARE ACTUAL SIZES. BASE CABINET HEIGHTS ALLOW FOR A COUNTERTOP 1 1/2" THICK CABINETS ARE MEASURED FROM THE BACK TO THE FACE OF THE DOOR OR DRAWER FRONT (WHERE APPLICABLE).
ALL CABINET INTERIORS, WHETHER CONCELED BEHIND DOORS OR OPEN, ARE STANDARD MELAMINE LAMINATE AS PER SPECIFICATIONS.


VCBO
ARCHITECTURE
VALENTINER
CRANE
BRUNJES
ONYON

LICENSED ARCHITECT
No. 13392
BRENT R. TIPPETS
10-2-12
STATE OF UTAH

VCBO ARCHITECTURE
524 SOUTH 600 EAST
SALT LAKE CITY, UT 84102
Phone: (801) 575-8800
Fax: (801) 531-9850
WWW: www.vcbo.com


DFCM CODE COMPLIANCE STAMP

# Student Activity Center
Stromberg Addition - BID SET
Weber State University
3750 Harrison Blvd. Ogden, UT 84408

| Rev # | Date | Description |
|---|---|---|

Job # 12475
CAD File
Drawn Author Checked Checker
Date 10.03.2012
Owner # DFCM #12031810

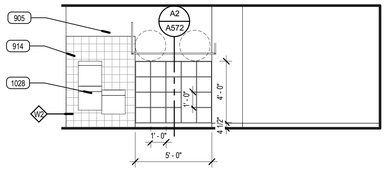
LEVEL 02 INTERIOR ELEVATIONS

A420.4

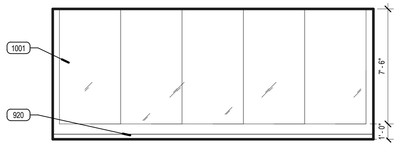
10/3/2012 3:22:49 PM

## KEYED NOTES

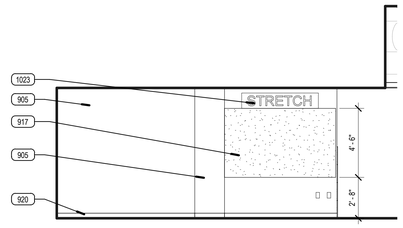
| | |
|---|---|
| 507 | STEEL COLUMN PAINTED WHERE EXPOSED |
| 610 | FREE STANDING STORAGE CUBBY CABINET |
| 800 | DOOR & FRAME |
| 801 | WINDOW SYSTEM |
| 905 | 5/8" GYP. BD. PAINTED WHERE EXPOSED |
| 914 | CERAMIC WALL TILE |
| 917 | TACKABLE WALL SYSTEM |
| 920 | SCHEDULED BASE |
| 1001 | MIRROR |
| 1023 | SIGNAGE, SEE SCHEDULE |
| 1028 | DRINKING FOUNTAIN WITH BOTTLE FILLER |
| 1102 | CEILING MOUNTED PROJECTOR AND MOUNT COORDINATE EXACT LOCATION W/ ARCHITECT PRIOR TO INSTALLATION. PROVIDE 10'-0" MIN. OF EXTRA WIRE LENGTH, TYP. TO ACCOMMODATE ADJUSTMENT TO LOCATION PROVIDED |
| 1120 | AV CABINET |
| 1121 | MOTORIZED ROLL UP PROJECTION SCREEN |
| 1124 | CEILING FAN |
| 2600 | LIGHT FIXTURE |



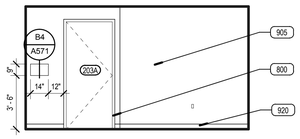

D3 STRETCH 200D NORTH ELEV.
SCALE: 1/4" = 1'-0"




D4 STRETCH 200D EAST ELEV.
SCALE: 1/4" = 1'-0"

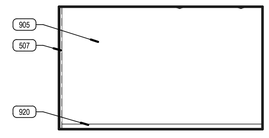



D5 STRETCH 200D SOUTH ELEV.
SCALE: 1/4" = 1'-0"




C2 STUDIO STORAGE 203A NORTH ELEV.
SCALE: 1/4" = 1'-0"

C3 STUDIO STORAGE 203A EAST ELEV.
SCALE: 1/4" = 1'-0"



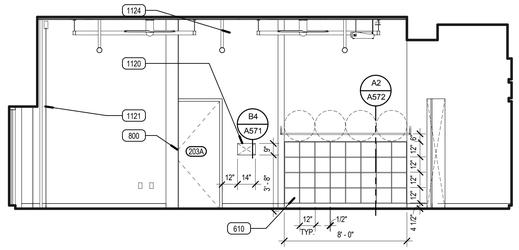

C4 STUDIO STORAGE 203A SOUTH ELEV.
SCALE: 1/4" = 1'-0"

C5 STUDIO STORAGE 203A WEST ELEV.
SCALE: 1/4" = 1'-0"

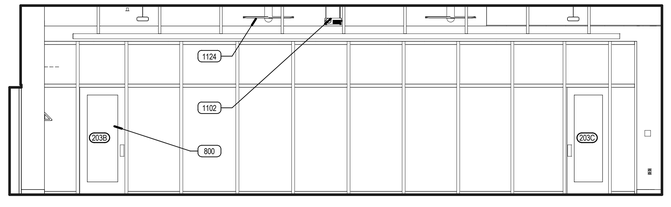
## MILLWORK LEGEND

GENERAL NOTE: WALL MOUNTED MECHANICAL AND ELECTRICAL DEVICES, SUCH AS, BUT NOT LIMITED TO: POWER, DATA, AV OUTLETS, HORNSTROBES, SWITCHES, CO2 SENSORS AND THERMOSTATS, ARE TO BE INSTALLED AS LOCATED ON THE ARCHITECTURAL ELEVAITONS. MECHANICAL AND ELECTRICAL CONTRACTORS ARE TO COORDINATE WITH STUD FRAMING PRIOR TO ROUGH-IN TO ENSURE PRECISE LOCATIONS. REFER TO MECHANICAL AND ELECTRICAL DRAWINGS AND SPECIFICATIOSN FOR TYPE AND QUANTITY. WHERE NOT INDICATED REFER TO AXXX/XX FOR MOUNTING LOCATION GUIDELINES.

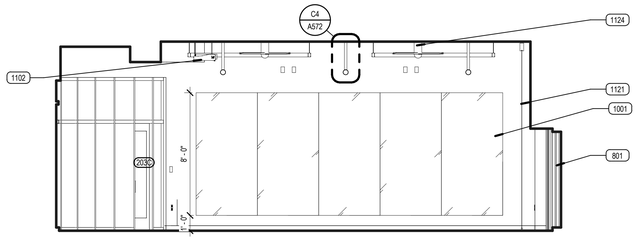
1. ALL MILLWORK DIMENSIONED FROM BASE TO TOP OF IDENTIFIED COUNTERTOP, TYP.
2. CABINET DEPTH IS MEASURED FROM THE WALL TO THE FACE OF THE DOOR OR DRAWER FRONT (WHERE APPLICABLE)
3. PROVIDE BASE AT ALL CABINET TOE SPACE, UNLESS NOTED OTHERWISE.
4. PROVIDE GROMMET WHERE "G" IS LAELED ON PLANS OR ELEVATIONS.
5. ALL COUNTERTOPS AT SINK LOCATIONS TO HAVE A 4" BACKSPLASH, UNLESS NOTED OTHERWISE, TO MATCH COUNTERTOP, ON BACK AND SIDE WALLS.
6. PROVIDE FILLER PANESL TO SEAL SIDES AND TOPS OF ALL CABINETS PLACED AT AN ANGLE TO ADJACENT WALL(S).
7. ALL MILLWORK TO BE FINISHED ON ENDS, TYP.
8. CONTRACTOR TO PROVIDE BLOCKING BEHIND ALL CABINETS, AS WELL AS ALL WALL MOUNTED ACCESSORIES, INCLUDING WHITE BOARDS, TACKBOARDS, TOILET AND URINAL PARTITIONS AND TOILET ROOM ACCESSORIES, ETC... NOTE: ONLY 2X WOOD BLOCKING IS ACCEPTABLE BEHIND MILLWORK AND TOILET ROOM PARTITIONS.
9. REFER TO SPECIFICATIONS FOR FINISH COLORS ON ALL MILLWORK AND CASEWORK.
10. GLASS ATTACHED TO THE MILLWORK CABINETS AND COUNTERS IS TO BE PROVIDED BY THE MILLWORK COTNRACTOR.



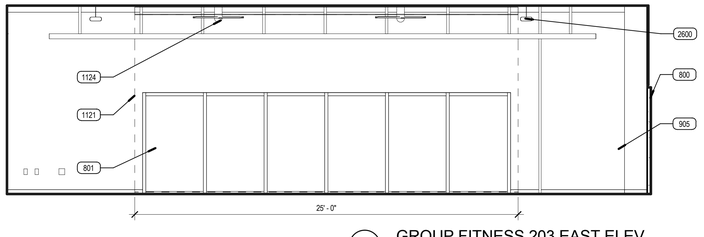

B3 GROUP FITNESS 203 SOUTH ELEV.
SCALE: 1/4" = 1'-0"




B5 GROUP FITNESS 203 WEST ELEV.
SCALE: 1/4" = 1'-0"




A3 GROUP FITNESS 203 NORTH ELEV.
SCALE: 1/4" = 1'-0"



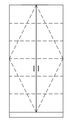

A5 GROUP FITNESS 203 EAST ELEV.
SCALE: 1/4" = 1'-0"

## ARCHITECTURAL MILLWORK KEY

EXAMPLE:

B 1 1 1 **
- ACCESSORY (IF NOTED)
- ONE ADJUSTABLE SHELF
- ONE DOOR
- ONE DRAWER
- BASE CABINET *

W 0 2 1 **
- ACCESSORY (IF NOTED)
- ONE ADJUSTABLE SHELF
- TWO DOORS
- ZERO DRAWERS
- WALL CABINET *



T 0 2 5 L
- LOCKS AT DOORS
- FIVE ADJUSTABLE SHELF
- TWO DOORS
- ZERO DRAWERS
- TALL CABINET *

*NOTE:

| | |
|---|---|
| SB | DENOTES SINK BASE CABINET |
| TW | DENOTES TALL WARDROBE CABINET |
| FMD | DENOTES FRAMED PERFORATED METAL PANEL DOOR |
| FGD | DENOTES FRAMED GLASS PANEL DOOR |

**NOTE:

| | |
|---|---|
| L | DENOTES LOCKS AT DOOR(S) / DRAWER(S) |
| F | DENOTES FILE DRAWER(S) |

CABINET MEASURMENTS SHOWN ARE ACTUAL SIZES, BASE CABINET HEIGHTS ALLOW FOR A COUNTERTOP 1 1/2" THICK CABINETS ARE MEASURED FROM THE BACK TO THE FACE OF THE DOOR OR DRAWER FRONT (WHERE APPLICABLE).
ALL CABINET INTERIORS, WHETHER CONCELED BEHIND DOORS OR OPEN, ARE STANDARD MELAMINE LAMINATE AS PER SPECIFICATIONS.


VCBO
ARCHITECTURE
VALENTINER
CRANE
BRUNJES
ONYON

VCBO ARCHITECTURE
524 SOUTH 600 EAST
SALT LAKE CITY, UT 84102
Phone: (801) 575-8800
Fax: (801) 531-9850
WWW: www.vcbo.com


DFCM CODE COMPLIANCE STAMP

# Student Activity Center
## Stromberg Addition - BID SET
Weber State University
3750 Harrison Blvd. Ogden, UT 84408

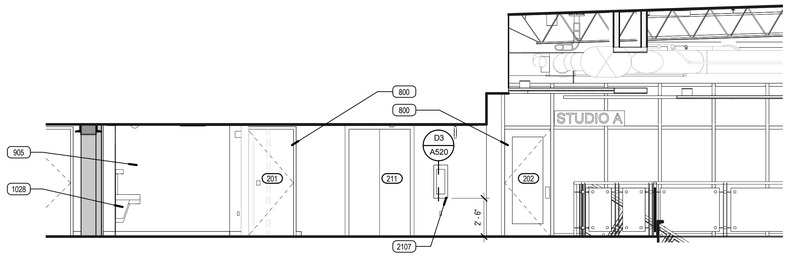
| Rev # | Date | Description |
|---|---|---|

Job # 12475
CAD File
Drawn Author Checked Checker
Date 10.03.2012
Owner # DFCM #12031810

LEVEL 02 INTERIOR ELEVATIONS

A420.5

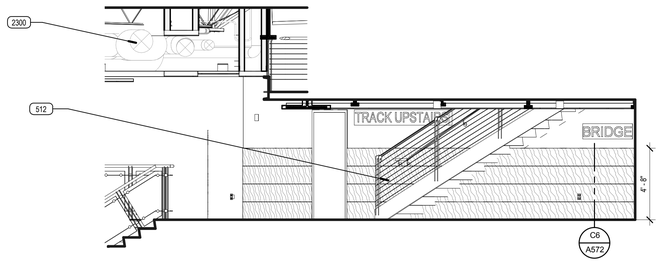
10/3/2012 3:23:02 PM




E2 CIRCULATION 200 SOUTH ELEV.

SCALE: 1/4" = 1'-0"

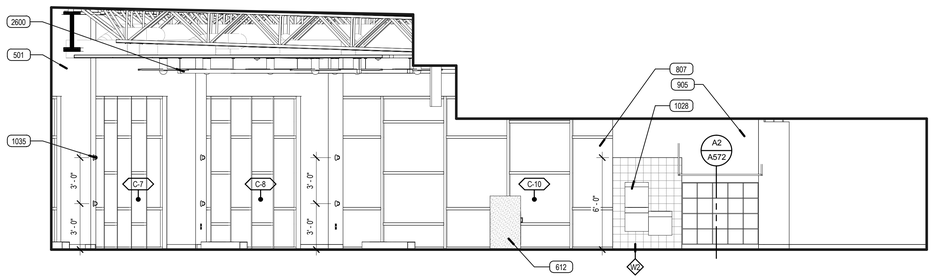
0' 2' 4' 8' 16'




D2 CIRCULATION 200 NORTH ELEV.

SCALE: 1/4" = 1'-0"

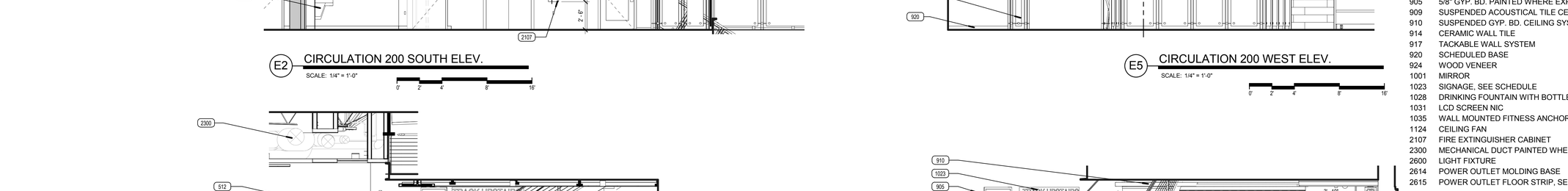
0' 2' 4' 8' 16'

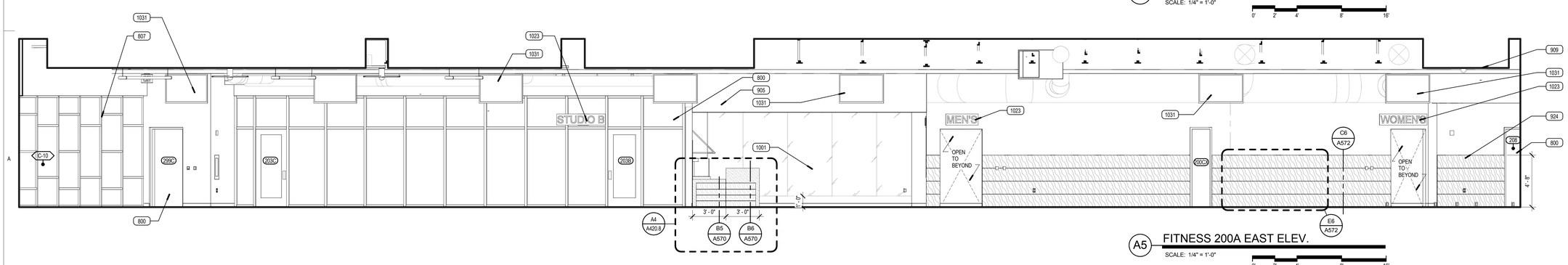



C2 FITNESS 200A NORTH ELEV.

SCALE: 1/4" = 1'-0"

0' 2' 4' 8' 16'

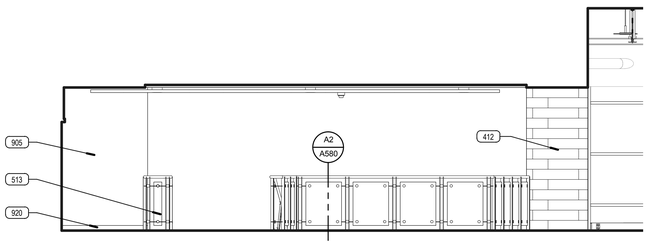



B5 FITNESS 200A WEST ELEV.

SCALE: 1/4" = 1'-0"

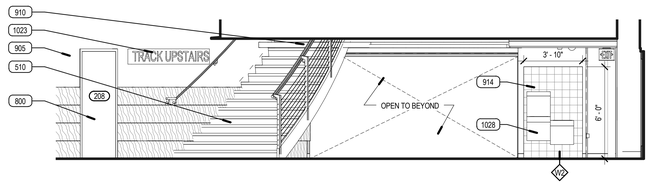
0' 2' 4' 8' 16'




E5 CIRCULATION 200 WEST ELEV.

SCALE: 1/4" = 1'-0"

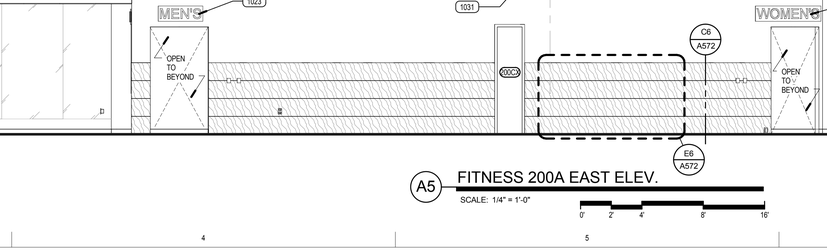
0' 2' 4' 8' 16'




D5 CIRCULATION 200 EAST ELEV.

SCALE: 1/4" = 1'-0"

0' 2' 4' 8' 16'




C5 FITNESS 200A SOUTH ELEV.

SCALE: 1/4" = 1'-0"

0' 2' 4' 8' 16'

B5 FITNESS 200A WEST ELEV.

SCALE: 1/4" = 1'-0"

0' 2' 4' 8' 16'

A5 FITNESS 200A EAST ELEV.

SCALE: 1/4" = 1'-0"

0' 2' 4' 8' 16'

## KEYED NOTES

| | |
|---|---|
| 309 | REINFORCED CONCRETE WALL |
| 405 | MASONRY CONTROL JOINTS SEE DETAIL |
| 412 | STONE CLADDING SYSTEM |
| 501 | STEEL BEAM PAINTED WHERE EXPOSED |
| 510 | METAL STAIRS, SEE SECTIONS AND DETAILS |
| 512 | 1-1/2" STEEL PIPE GUARDRAIL PAINTED TYP. |
| 513 | DECORATIVE RAILING WITH 1/2" GLAZING |
| 612 | QUARTZ COUNTERTOP |
| 800 | DOOR & FRAME |
| 807 | CURTAINWALL SYSTEM |
| 905 | 5/8" GYP. BD. PAINTED WHERE EXPOSED |
| 909 | SUSPENDED ACOUSTICAL TILE CEILING |
| 910 | SUSPENDED GYP. BD. CEILING SYSTEM |
| 914 | CERAMIC WALL TILE |
| 917 | TACKABLE WALL SYSTEM |
| 920 | SCHEDULED BASE |
| 924 | WOOD VENEER |
| 1001 | MIRROR |
| 1023 | SIGNAGE, SEE SCHEDULE |
| 1028 | DRINKING FOUNTAIN WITH BOTTLE FILLER |
| 1031 | LCD SCREEN NIC |
| 1035 | WALL MOUNTED FITNESS ANCHOR |
| 1124 | CEILING FAN |
| 2107 | FIRE EXTINGUISHER CABINET |
| 2300 | MECHANICAL DUCT PAINTED WHERE EXPOSED |
| 2600 | LIGHT FIXTURE |
| 2614 | POWER OUTLET MOLDING BASE |
| 2615 | POWER OUTLET FLOOR STRIP, SEE DETAIL E6/A590 |

VCBO
ARCHITECTURE
VALENTINER
CRANE
BRUNJES
ONYON

LICENSED ARCHITECT
No. 13392
BRENT R. TIPPETS
10-2-12
STATE OF UTAH

VCBO ARCHITECTURE
524 SOUTH 600 EAST
SALT LAKE CITY, UT 84102
Phone: (801) 575-8800
Fax: (801) 531-9850
www: www.vcbo.com

DFCM CODE COMPLIANCE STAMP

# Student Activity Center
## Stromberg Addition - BID SET
Weber State University
3750 Harrison Blvd. Ogden, UT 84408

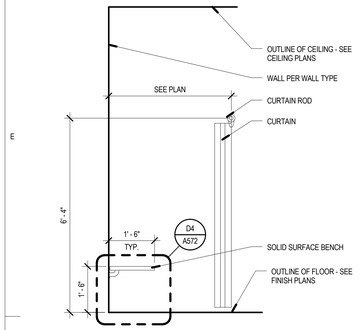
Rev # Date Description

Job # 12475
CAD File
Drawn Author Checked Checker
Date 10.03.2012
Owner # DFCM #12031810

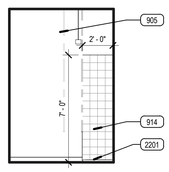
LEVEL 02 INTERIOR ELEVATIONS

A420.6

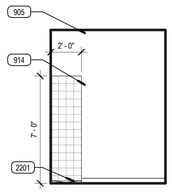
10/3/2012 3:23:22 PM



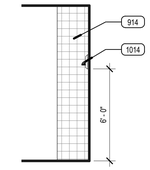

E1 DRESSING STALL SECTION
SCALE: 1/2" = 1'-0"
0' 1' 2' 4'



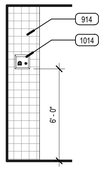

D2 CUSTODIAL 208 NORTH ELEV.
SCALE: 1/4" = 1'-0"
0' 2' 4' 8' 16'



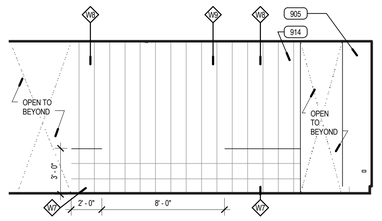

D1 CUSTODIAL 208 EAST ELEV.
SCALE: 1/4" = 1'-0"
0' 2' 4' 8' 16'



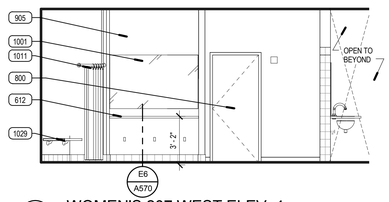

E3 HAIR DRYER 207 NORTH
SCALE: 1/4" = 1'-0"
0' 2' 4' 8' 16'



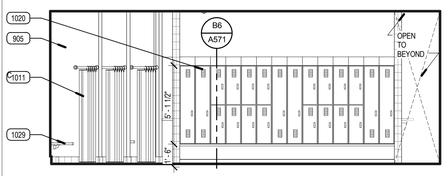

E4 HAIR DRYER 207 EAST
SCALE: 1/4" = 1'-0"
0' 2' 4' 8' 16'



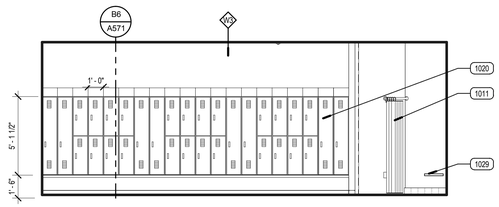

D3 WOMEN'S 207 EAST ELEV. 4
SCALE: 1/4" = 1'-0"
0' 2' 4' 8' 16'



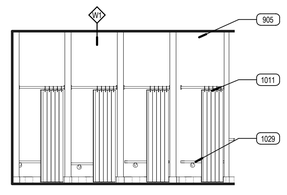

D4 WOMEN'S 207 WEST ELEV. 4
SCALE: 1/4" = 1'-0"
0' 2' 4' 8' 16'



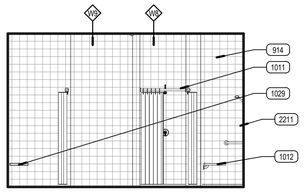

C1 WOMEN'S 207 EAST ELEV. 3
SCALE: 1/4" = 1'-0"
0' 2' 4' 8' 16'



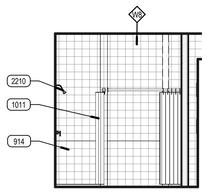

C3 WOMEN'S 207 WEST ELEV. 3
SCALE: 1/4" = 1'-0"
0' 2' 4' 8' 16'



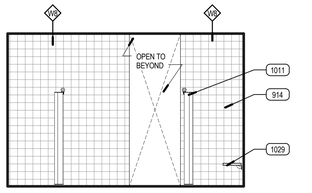

C4 WOMEN'S 207 DRESSING
SCALE: 1/4" = 1'-0"
0' 2' 4' 8' 16'



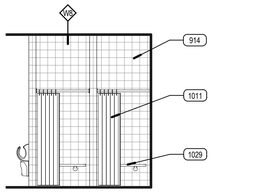

B2 WOMEN'S 207 NORTH ELEV. 2
SCALE: 1/4" = 1'-0"
0' 2' 4' 8' 16'



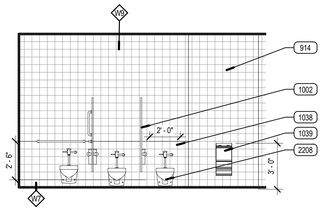

B1 WOMEN'S 207 EAST ELEV. 2
SCALE: 1/4" = 1'-0"
0' 2' 4' 8' 16'



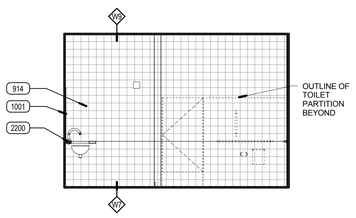

B4 WOMEN'S 207 SOUTH ELEV. 2
SCALE: 1/4" = 1'-0"
0' 2' 4' 8' 16'



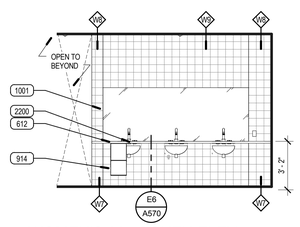

B3 WOMEN'S 207 WEST ELEV. 2
SCALE: 1/4" = 1'-0"
0' 2' 4' 8' 16'



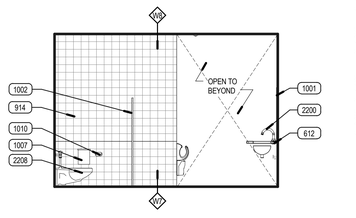

A1 WOMEN'S 207 NORTH ELEV.
SCALE: 1/4" = 1'-0"
0' 2' 4' 8' 16'



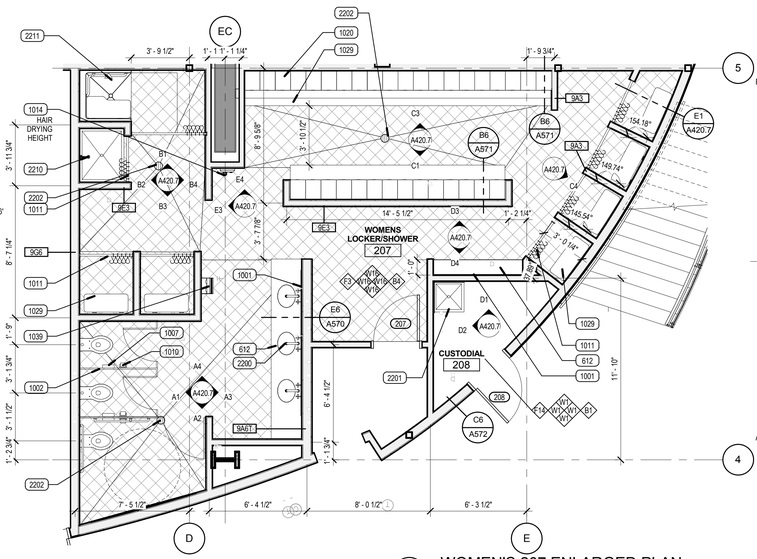

A2 WOMEN'S 207 EAST ELEV.
SCALE: 1/4" = 1'-0"
0' 2' 4' 8' 16'




A3 WOMEN'S 207 SOUTH ELEV.
SCALE: 1/4" = 1'-0"
0' 2' 4' 8' 16'

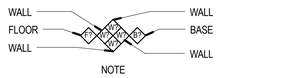



A4 WOMEN'S 207 WEST ELEV.
SCALE: 1/4" = 1'-0"
0' 2' 4' 8' 16'




A6 WOMEN'S 207 ENLARGED PLAN
SCALE: 1/4" = 1'-0"
0' 2' 4' 8' 16'

## FINISH PLAN SYMBOLS




SINGLE FINISH SYMBOLS INDICATE WHERE FINISHES ARE DIFFERENT FROM GENERAL ROOM FINISHES, OR PROVIDE ADDITIONAL FINISH INFORMATION

CHANGE AT FLOOR MATERIAL SEE DETAIL D1/A570 FLOOR TRANSITION

XXXX SIGNAGE TAG- SEE SIGNAGE SCHEDULE AND SHEET A800 FOR MORE INFORMATION

STAINLESS STEEL CORNER GUARD TO 4'-0" A.F.F.

## FINISH PLAN LEGEND

NOTE: REFER TO FINISH SCHEDULE IN SPECIFICATIONS, DIVISION 9, FOR INTERIOR FINISH SELECTIONS AND SPECIFICATIONS.

**WALL MATERIALS**

| | |
|---|---|
| W1 | PRIMED & PAINTED WALL SURFACE- GENERAL WHITE |
| W2 | PRIMED & PAINTED WALL SURFACE- ACCENT GRAY |
| W3 | PRIMED & PAINTED WALL SURFACE- ACCENT GREEN |
| W4 | PRIMED & PAINTED WALL SURFACE- ACCENT FULLY PURPLE |
| W5 | PRIMED & PAINTED WALL SURFACE- ACCENT CHARCOAL |
| W6 | NOT USED |
| W7 | WALL TILE - MOSA TILES GLOBAL COLLECTION 16650 GRAY |
| W8 | WALL TILE - MOSA TILES GLOBAL COLLECTION 16860 BEIGE |
| W9 | WALL TILE - MOSA TILES GLOBAL COLLECTION 20930 PURPLE |
| WE | EXISTING WALL FINISH |

**FLOOR MATERIALS**

| | |
|---|---|
| F1 | GENERAL CARPET - PATCRAFT 10294 IDEA, COLOR: 00590 MINDSET |
| F2 | ACCENT CARPET - PATCRAFT 10294 IDEA, COLOR 00100 INSIGHT |
| F3 | VINYL TILE FLOORING - ARMSTRONG STRIATIONS BBT, T 3608 WARM GRAY |
| F4 | MOSAIC FLOOR TILE - DALTILE KEYSTONES BLOCK RANDOM, DESERT GRAY SPECKLE |
| F5 | |
| F6 | RUBBER FLOORING - MONDO SPORT IMPACT 011 MEDIUM GREY |
| F7 | RUBBER FLOORING - MONDO SPORT IMPACT 018 DARK GREY |
| F8 | RUBBER FLOORING - MONDO SPORT IMPACT 026 PURPLE |
| F9 | RUNNING TRACK - MONDO |
| F10 | ATHLETIC WOODFLOOR |
| F11 | PORCELAIN TILE - 12X24 Q-STONE |
| F12 | ENTRANCE / WALK OFF MATTING CARPET SYSTEM |
| F13 | TRAFFIC COATING |
| F14 | SEALED CONCRETE |
| F15 | VCT |
| FE | EXISTING FLOOR MATERIAL |

**WOOD**

| | |
|---|---|
| WD1 | WOOD DOORS - VT INDUSTRIES WHITE MAPLE VENEER, CLEAR FINISH CL07 |
| WD2 | STAINED AND FINISHED MDF PANEL- LIGHT |
| WD3 | STAINED AND FINISHED MDF PANEL MDF - DARK |

**BASE MATERIALS**

| | |
|---|---|
| B1 | 4" RUBBER BASE - JOHNSONITE; 20 CHARCOAL |
| B2 | VENTED BASE - SEE DETAIL A4/A590 |
| B3 | CERAMIC TILE BASE |
| B4 | NO BASE - CAULK BETWEEN FLOOR & WALL |
| B5 | WRAP TRAFFIC COATING UP WALL 4" |
| BE | EXISTING BASE |

**SURFACE MATERIALS**

| | |
|---|---|
| PL1 | PLASTIC LAMINATE - WILSONART 7949K-18 ASIAN NIGHT (DARK GRAY) |
| PL2 | PLASTIC LAMINATE - WILSONART 4978-38 PEWTER MESH (LIGHT GRAY) |
| PL3 | PLASTIC LAMINATE - NEVAMAR VOUS TEMPEST VS6002T (MEDIUM GRAY) |
| PL4 | PLASTIC LAMINATE - NEVAMAR EXTREME GREEN BAMBOO TEXTURED WX5001T (GREEN) |
| SS1 | SOLID SURFACE - CAMBRIA WAVERTON 0250 (WHITE) |
| SS2 | SOLID SURFACE - CAMBRIA WAVERTON 0250 (WHITE) |
| PLE | EXISTING PLASTIC LAMINATE |
| SSE | EXISTING SOLID SURFACE |

## KEYED NOTES

| | |
|---|---|
| 612 | QUARTZ COUNTERTOP |
| 800 | DOOR & FRAME |
| 905 | 5/8" GYP. BD. PAINTED WHERE EXPOSED |
| 914 | CERAMIC WALL TILE |
| 1001 | MIRROR |
| 1002 | TOILET PARTITION |
| 1007 | SANITARY NAPKIN DISPOSAL, NIC |
| 1010 | TOILET PAPER DISPENSER, NIC |
| 1011 | SHOWER CURTAIN, ROD AND HOOKS |
| 1012 | HANDICAP SHOWER SEAT |
| 1014 | ELECTRIC HAND / HAIR DRYER |
| 1020 | PHENOLIC LOCKER-SEE ELEVATIONS |
| 1029 | BENCH/ SEAT |
| 1038 | STAINLESS STEEL PANEL |
| 1039 | HAND DRYER |
| 2200 | SINK AND FAUCET |
| 2201 | JANITOR'S SINK |
| 2202 | FLOOR DRAIN, SEE DETAIL B6/A590 |
| 2208 | TOILET |
| 2210 | SHOWER HEAD / FAUCET |
| 2211 | ADA SHOWER ENCLOSURE |

VCBO
ARCHITECTURE
VALENTINER
CRANE
BRUNJES
ONYON

VCBO ARCHITECTURE
524 SOUTH 600 EAST
SALT LAKE CITY, UT 84102
Phone: (801) 575-8800
Fax: (801) 531-9850
WWW: www.vcbo.com

LICENSED ARCHITECT No. 339212 BRENT R. TIPPETS 10-2-12 STATE OF UTAH

DFCM CODE COMPLIANCE STAMP

# Student Activity Center
Stromberg Addition - BID SET
Weber State University
3750 Harrison Blvd. Ogden, UT 84408

| Rev # | Date | Description |
|---|---|---|

Job # 12475
CAD File
Drawn Author Checked Checker
Date 10.03.2012
Owner # DFCM #12031810

LEVEL 02 INTERIOR ELEVATIONS

A420.7

10/3/2012 3:23:43 PM

## KEYED NOTES

612 QUARTZ COUNTERTOP
626 STAINED AND SEALED MDF PANEL

## MILLWORK LEGEND

GENERAL NOTE: WALL MOUNTED MECHANICAL AND ELECTRICAL DEVICES, SUCH AS, BUT NOT LIMITED TO: POWER, DATA, AV OUTLETS, HORNSTROBES, SWITCHES, CO2 SENSORS AND THERMOSTATS, ARE TO BE INSTALLED AS LOCATED ON THE ARCHITECTURAL ELEVAITONS, MECHANICAL AND ELECTRICAL CONTRACTORS ARE TO COORDINATE WITH STUD FRAMING PRIOR TO ROUGH-IN TO ENSURE PRECISE LOCATIONS. REFER TO MECHANICAL AND ELECTRICAL DRAWINGS AND SPECIFICATIOSN FOR TYPE AND QUANTITY. WHERE NOT INDICATED REFER TO AXXX/XX FOR MOUNTING LOCATION GUIDELINES.

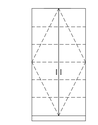
1. ALL MILLWORK DIMENSIONED FROM BASE TO TOP OF IDENTIFIED COUNTERTOP, TYP.
2. CABINET DEPTH IS MEASURED FROM THE WALL TO THE FACE OF THE DOOR OR DRAWER FRONT (WHERE APPLICABLE)
3. PROVIDE BASE AT ALL CABINET TOE SPACE, UNLESS NOTED OTHERWISE.
4. PROVIDE GROMMET WHERE "G" IS LAELED ON PLANS OR ELEVATIONS.
5. ALL COUNTERTOPS AT SINK LOCATIONS TO HAVE A 4" BACKSPLASH, UNLESS NOTED OTHERWISE, TO MATCH COUNTERTOP, ON BACK AND SIDE WALLS.
6. PROVIDE FILLER PANESL TO SEAL SIDES AND TOPS OF ALL CABINETS PLACED AT AN ANGLE TO ADJACENT WALL(S).
7. ALL MILLWORK TO BE FINISHED ON ENDS, TYP.
8. CONTRACTOR TO PROVIDE BLOCKING BEHIND ALL CABINETS, AS WELL AS ALL WALL MOUNTED ACCESSORIES, INCLUDING WHITE BOARDS, TACKBOARDS, TOILET AND URINAL PARTITIONS AND TOILET ROOM ACCESSORIES, ETC... NOTE: ONLY 2X WOOD BLOCKING IS ACCEPTABLE BEHIND MILLWORK AND TOILET ROOM PARTITIONS.
9. REFER TO SPECIFICATIONS FOR FINISH COLORS ON ALL MILLWORK AND CASEWORK.
10. GLASS ATTACHED TO THE MILLWORK CABINETS AND COUNTERS IS TO BE PROVIDED BY THE MILLWORK COTNRACTOR.

## ARCHITECTURAL MILLWORK KEY

EXAMPLE:

B 1 1 1 **
- ACCESSORY (IF NOTED)
- ONE ADJUSTABLE SHELF
- ONE DOOR
- ONE DRAWER
- BASE CABINET *

W 0 2 1 **
- ACCESSORY (IF NOTED)
- ONE ADJUSTABLE SHELF
- TWO DOORS
- ZERO DRAWERS
- WALL CABINET *



T 0 2 5 L
- LOCKS AT DOORS
- FIVE ADJUSTABLE SHELF
- TWO DOORS
- ZERO DRAWERS
- TALL CABINET *

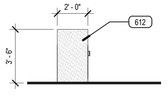
*NOTE:

| | |
|---|---|
| SB | DENOTES SINK BASE CABINET |
| TW | DENOTES TALL WARDROBE CABINET |
| FMD | DENOTES FRAMED PERFORATED METAL PANEL DOOR |
| FGD | DENOTES FRAMED GLASS PANEL DOOR |

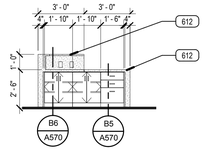
**NOTE:

| | |
|---|---|
| L | DENOTES LOCKS AT DOOR(S) / DRAWER(S) |
| F | DENOTES FILE DRAWER(S) |

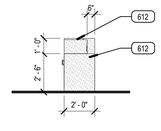
CABINET MEASURMENTS SHOWN ARE ACTUAL SIZES, BASE CABINET HEIGHTS ALLOW FOR A COUNTERTOP 1 1/2" THICK CABINETS ARE MEASURED FROM THE BACK TO THE FACE OF THE DOOR OR DRAWER FRONT (WHERE APPLICABLE).
ALL CABINET INTERIORS, WHETHER CONCELED BEHIND DOORS OR OPEN, ARE STANDARD MELAMINE LAMINATE AS PER SPECIFICATIONS.



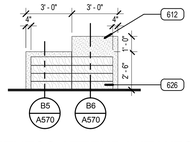

A1 FITNESS ATTENDANT NORTH
SCALE: 1/4" = 1'-0"



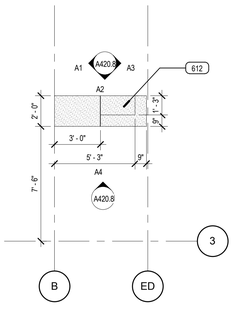

A2 FITNESS ATTENDANT EAST
SCALE: 1/4" = 1'-0"




A3 FITNESS ATTENDANT SOUTH
SCALE: 1/4" = 1'-0"




A4 FITNESS ATTENDANT WEST
SCALE: 1/4" = 1'-0"




A5 FITNESS ATTENDANT STATION
SCALE: 1/4" = 1'-0"


VCBO ARCHITECTURE
524 SOUTH 600 EAST
SALT LAKE CITY, UT 84102
Phone: (801) 575-8800
Fax: (801) 531-9850
WWW: www.vcbo.com


DFCM CODE COMPLIANCE STAMP

# Student Activity Center
## Stromberg Addition - BID SET
Weber State University
3750 Harrison Blvd. Ogden, UT 84408

| Rev # | Date | Description |
|---|---|---|

Job # 12475
CAD File
Drawn Author Checked Checker
Date 10.03.2012
Owner # DFCM #12031810

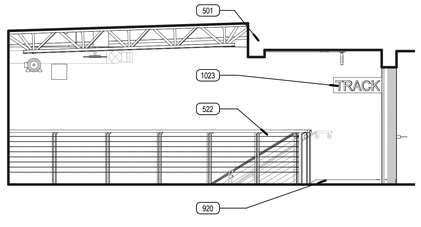
LEVEL 02 INTERIOR ELEVATIONS

A420.8

10/3/2012 3:23:49 PM

## KEYED NOTES

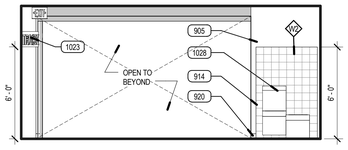
| | |
|---|---|
| 501 | STEEL BEAM PAINTED WHERE EXPOSED |
| 507 | STEEL COLUMN PAINTED WHERE EXPOSED |
| 522 | DECORATIVE RAILING |
| 811 | ELEVATOR DOOR |
| 905 | 5/8" GYP. BD. PAINTED WHERE EXPOSED |
| 914 | CERAMIC WALL TILE |
| 920 | SCHEDULED BASE |
| 1023 | SIGNAGE, SEE SCHEDULE |
| 1028 | DRINKING FOUNTAIN WITH BOTTLE FILLER |
| 2107 | FIRE EXTINGUISHER CABINET |




A2 CIRCULATION 300 NORTH ELEV.

SCALE: 1/4" = 1'-0"

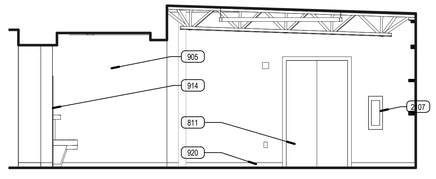
0' 2' 4' 8' 16'




A3 CIRCULATION 300 EAST ELEV.

SCALE: 1/4" = 1'-0"

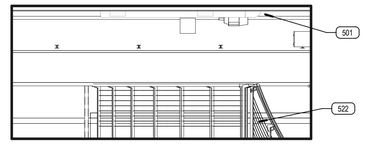
0' 2' 4' 8' 16'




A4 CIRCULATION 300 SOUTH ELEV.

SCALE: 1/4" = 1'-0"

0' 2' 4' 8' 16'




A5 CIRCULATION 300 WEST ELEV.

SCALE: 1/4" = 1'-0"

0' 2' 4' 8' 16'

10/3/2012 3:23:56 PM

VCBO

ARCHITECTURE
VALENTINER
CRANE
BRUNJES
ONYON


VCBO ARCHITECTURE
524 SOUTH 600 EAST
SALT LAKE CITY, UT 84102
Phone: (801) 575-8800
Fax: (801) 531-9850
WWW: www.vcbo.com


DFCM CODE COMPLIANCE STAMP

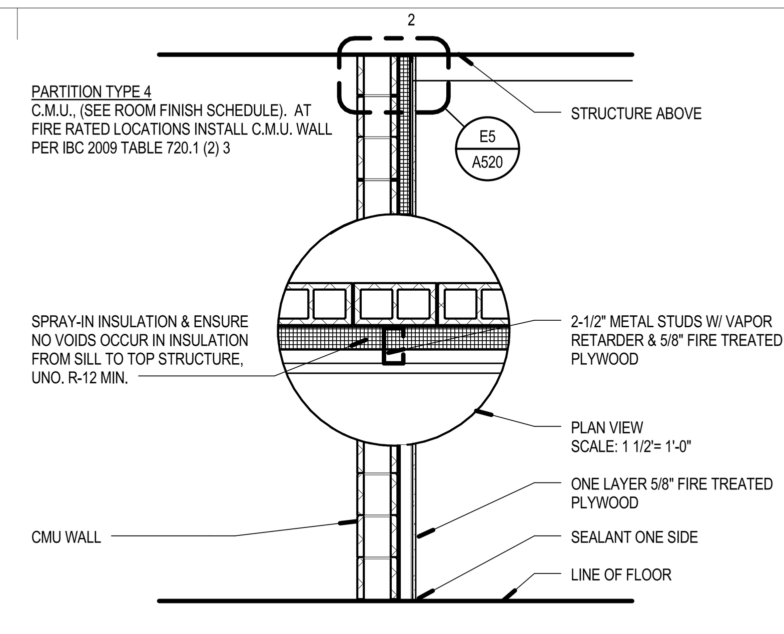
# Student Activity Center
## Stromberg Addition - BID SET
Weber State University
3750 Harrison Blvd. Ogden, UT 84408

| Rev # | Date | Description |
|---|---|---|

Job # 12475
CAD File
Drawn Author Checked Checker
Date 10.03.2012
Owner # DFCM #12031810

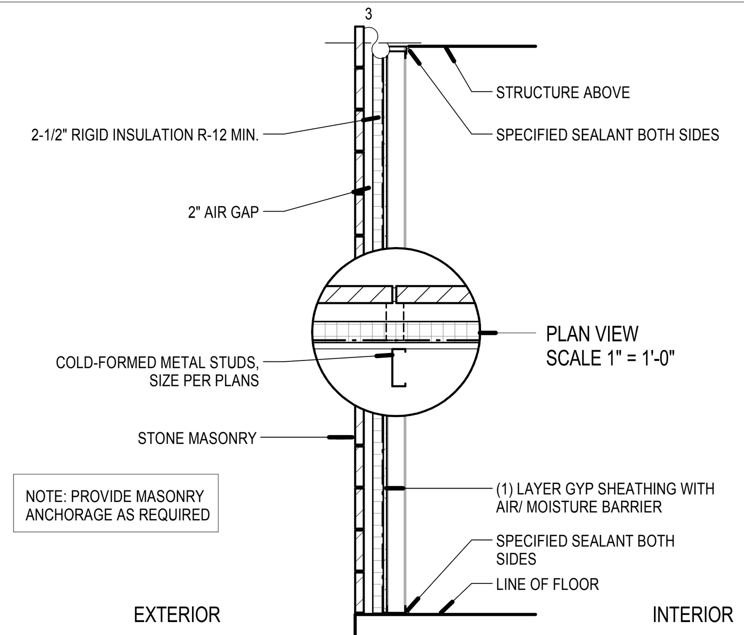
LEVEL 03 INTERIOR ELEVATIONS

A430.1



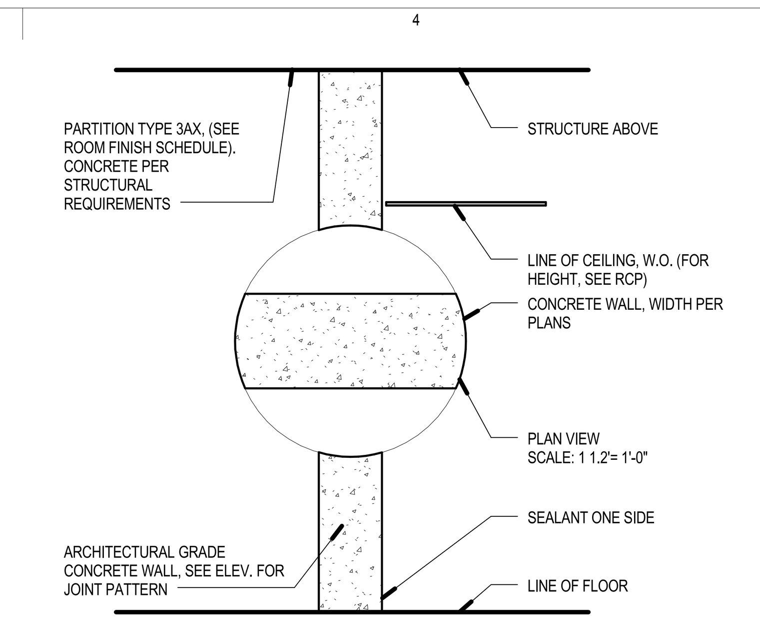

E2 WALL TYPE 4Bx

SCALE: NOT TO SCALE



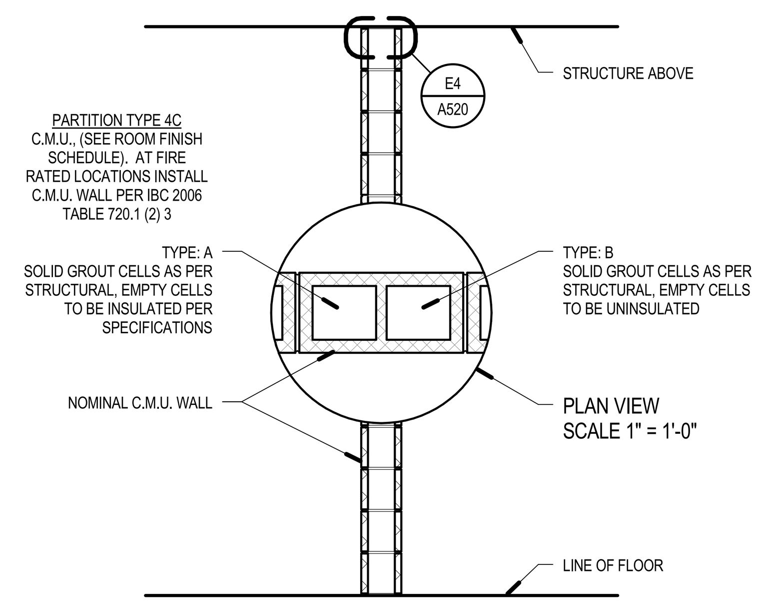

E3 WALL TYPE 5Cx

SCALE: NOT TO SCALE



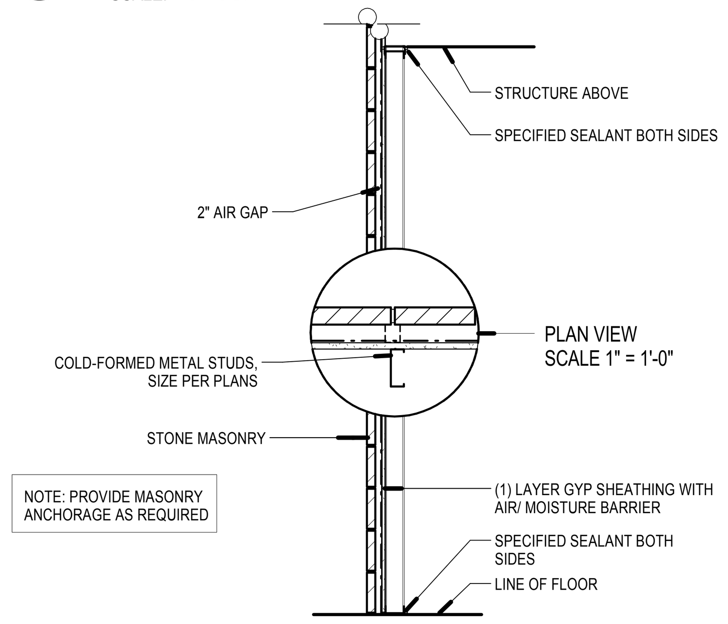

E4 WALL TYPE 3AX

SCALE: NOT TO SCALE



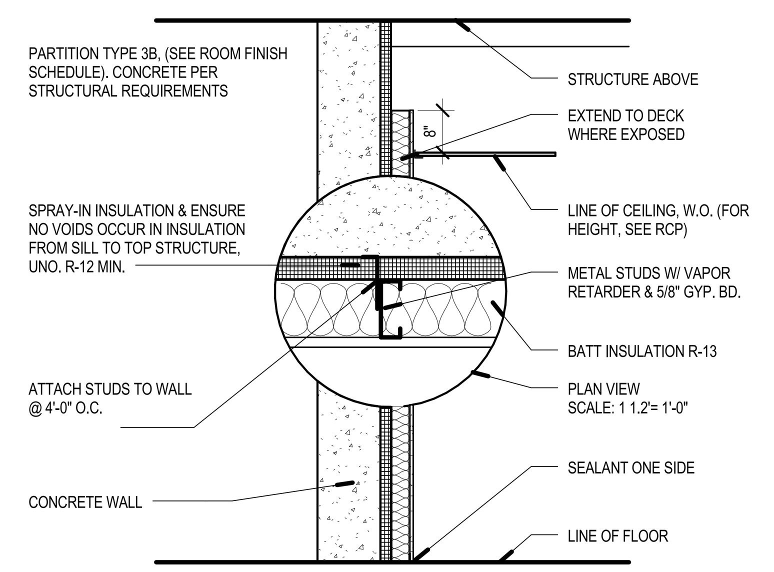

D3 WALL TYPE 4CX, 4Cx-1 & 4Cx-2

SCALE: NOT TO SCALE



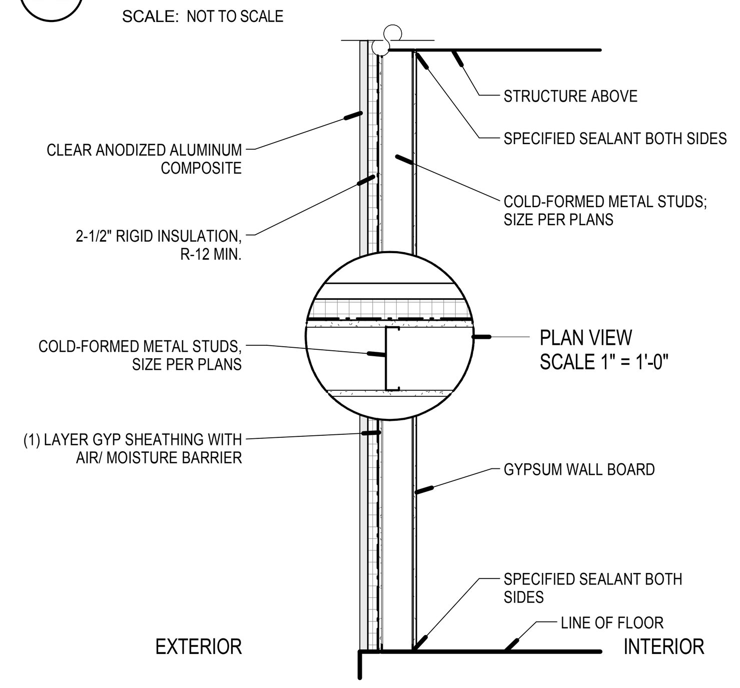

D2 WALL TYPE 5Dx

SCALE: NOT TO SCALE



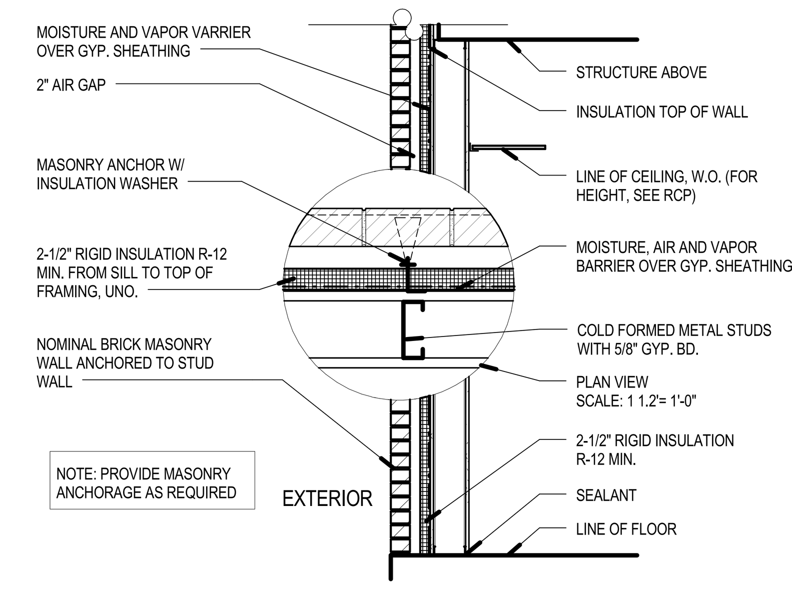

D4 WALL TYPE 3Bx

SCALE: NOT TO SCALE



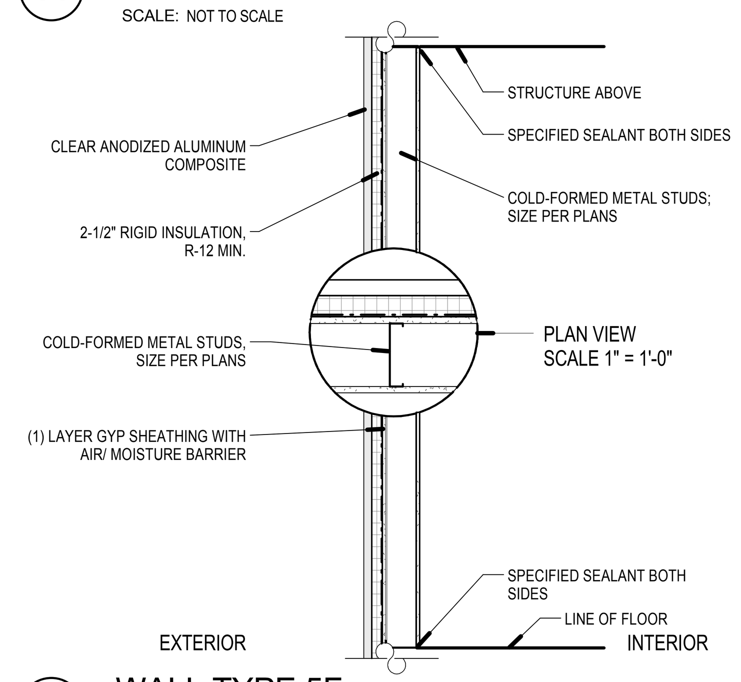

C3 WALL TYPE 5Ex

SCALE: NOT TO SCALE



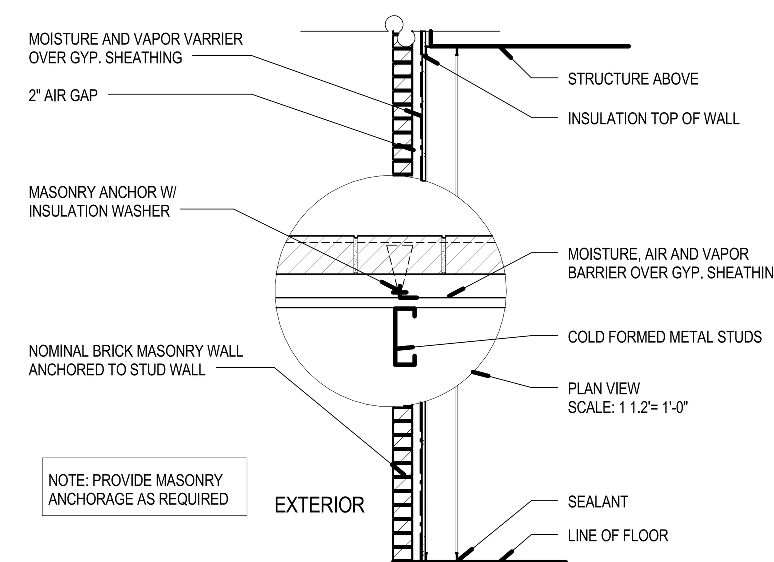

C4 WALL TYPE 5Ax

SCALE: NOT TO SCALE



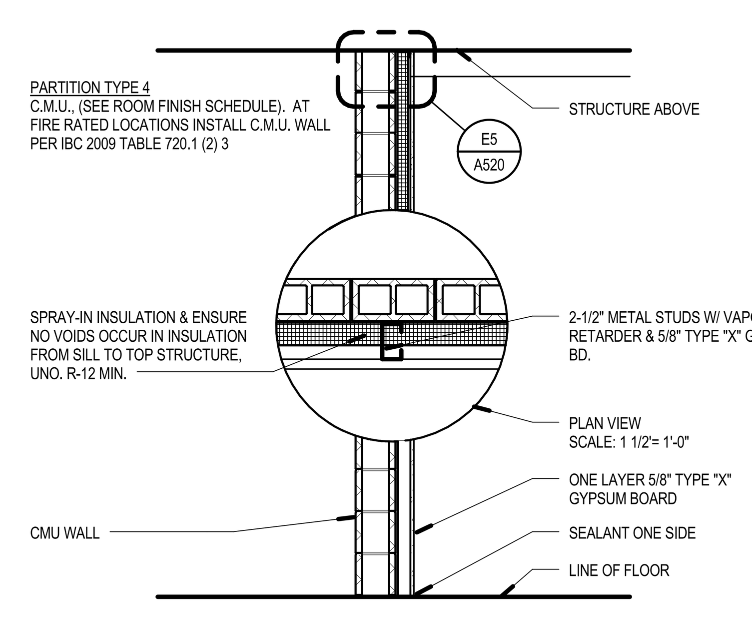

B3 WALL TYPE 5Fx

SCALE: NOT TO SCALE




B4 WALL TYPE 5Bx

SCALE: NOT TO SCALE




A3 WALL TYPE 4Ax

SCALE: NOT TO SCALE

## KEY FOR PARTITION TYPES

DENOTES TYPE OF CONSTRUCTION (SPEC. DIVISION) — WALL

| | |
|---|---|
| 3X 0 SERIES | CONCRETE |
| 4X 0 SERIES | MASONRY |
| 5X 0 SERIES | COLD FORMED METAL STUDS, 16ga MIN. |
| 9X 0 SERIES | METAL STUDS |

NOMINAL SIZES: V = VARIABLE/MATCHEXISTING
1 = 1 5/8" STUDS
2 = 2 1/2" STUDS
3 = 3 5/8" STUDS
4 = 4" STUDS / 4" (NOM.) C.M.U.
6 = 6" STUDS / 6" (NOM.) C.M.U.
8 = 8" STUDS / 8" (NOM.) C.M.U.
10 = 10" (NOM.) C.M.U. OR CONC.
12 = 12" (NOM.) C.M.U. OR CONC.

EXAMPLE: WALL TYPE 9A3 IS A 3 5/8" METAL STUD WITH 5/8" GYPSUM BOARD ON BOTH SIDES.

NOTE: SEE GENERAL NOTES BELOW FOR ADDITIONAL ELEMENTS IN THE INDIVIDUAL WALL TYPES AND SPECIFIC DETAILS, INCLUDING UL RATINGS.

## RATED WALL LEGEND

- INCIDENTAL USE AREAS
- 1 HOUR SEPARATION
- 2 HOUR SEPARATION
- 3 HOUR SEPARATION

EXAMPLE: WALL TYPE 9A3-1 IS A ONE HOUR RATED, 3 5/8" METAL STUD WALL WITH 5/8" GYPSUM BOARD ON BOTH SIDES, PER ASSEMBLY REQUIREMENTS.

90X-R SERIES
FIRE RATING (ONLY WHEN NOTED):
1 = 1 HOUR RATED ASSEMBLY
2 = 2 HOUR RATED ASSEMBLY
3 = 3 HOUR RATED ASSEMBLY

## NON-BEARING METAL HEADER SCHEDULE

| MAXIMUM SPAN | HEADER | FY |
|---|---|---|
| 4'-0" | (2) 400S137-43 | 33 ksi |
| 6'-0" | (2) 600S162-43 | 33 ksi |
| 8'-0" | (2) 800S162-43 | 33 ksi |

METAL STUD HEADER NOTES:

1. SCHEDULE TO BE USED FOR NON-BEARING WALLS.
2. HEADERS TO BE CONSTRUCTED AS BOX HEADERS PER SSMA STANDARDS.
3. SEE TYPICAL DETAIL FOR MORE INFORMATION.

## NON-BEARING METAL STUD GAUGE SIZING

MEMBER DEPTH IN 1/100 INCHES — FLANGE WIDTH IN 1/100 INCHES

400**S**137-**43**

STYLE (S=STUD OR JOIST) — MATERIAL THICKNESS IN MILS

| MEMBER DEPTH | MAX STUD HEIGHT | MIN. GA. & SPACING |
|---|---|---|
| 2 1/2" (250S125-33) | 10'-0" | 20@16" O.C. |
| 3 5/8" (362S125-33) | 14'-0" | 20@16" O.C. |
| 3 5/8" (362S162-33) | 16'-0" | 20@16" O.C. |
| 3 5/8" (362S162-43) | 18'-0" | 18@16" O.C. |
| 6" (600S162-33) | 24'-0" | 20@16" O.C. |
| 6" (600S162-43) | 26'-0" | 18@16" O.C. |
| 6" (600S162-54-50KSI) | 28'-0" | 16@16" O.C. |

METAL STUD NOTES:

1. STEEL STUDS SHALL MEET ICC REPORT ER-4943P AND THE SSMA STANDARDS. HEIGHT BASED ON SSMA 2001 CATALOG AND PROJECT REQUIREMENTS.
2. SEE SCHEDULE FOR STUD SPACING AND GAUGE. ALL STUDS AND BRACES SHALL BE 33 KSI UNLESS NOTED OTHERWISE IN THESE DRAWINGS.
3. AT ALL DOORS PROVIDE TWO TABBED 18 GAUGE STUDS AT BOTH SIDES OF JAMB.

## PARTITION AND FRAMING GENERAL NOTES

**FRAMED WALL PARTITIONS**

1. PARTITION TYPE INDICATIONS ARE INDEPENDANT OF APPLIED FINISHES. SEE THE FINISH SHEETS AND INTERIOR ELEVATIONS FOR WALL FINISHES INCLUDING TILE COURSING AND LAYOUT AND/OR THE DESIGNATIONS ON THE PLANS FOR ADDITIONAL INFORMATION REGARDING APPLIED FINISHES.
2. WHERE PARTITION TYPE DESIGNATION ON FLOOR PLANS IS INTERRUPTED BY DOOR OPENING, GLAZED PARTITION, ETC., CONSTRUCTION ABOVE INTERRUPTION (AND WHERE APPLICABLE BELOW) IS TO BE THE SAME AS THAT DESIGNATED FOR THE PARTITION IN WHICH THE INTERRUPTION OCCURRED.
3. THE MINIMUM REQUIREMENTS FOR CONSTRUCTION OF EACH PARTITION TYPE AS EXPRESSED BY THE INDICATED REFERENCE ARE INCORPORATED BY REFERENCE AND ARE APPLICABLE TO THE WORK OF THIS PROJECT. HOWEVER, ADDITIONAL AND/OR MORE RESTRICTIVE REQUIREMENTS MAY BE INDICATED BY THE SPECIFICATIONS AND DRAWINGS. SUCH REQUIREMENTS ALSO APPLY AND SHALL GOVERN. SUCH REQUIREMENTS INCLUDE BUT ARE NOT LIMITED TO:
   a. USE 5/8" THICK GYPSUM BOARD THROUGHOUT UNLESS NOTED OTHERWISE.
   b. USE 16" OC MAX STUD SPACING UNLESS NOTED OTHERWISE IN THESE DOCUMENTS. THE SPACING STATED BY THE REFERENCED APPROVAL OR TEST REPORT IS THE MAX SPACING IF ALLOWED IN THESE DOCUMENTS.
   c. USE STUDS OF GAGE INDICATED ON THE DRAWINGS OR IN THE SPECIFICATIONS. THE GAGE STATED BY THE REFERENCED APPROVAL OR TEST REPORT IS THE MINIMUM GAGE TESTED, 20 GA (30 MILS) IS THE MINIMUM ALLOWED IN THESE DOCUMENTS.
4. USE STUDS OF DEPTH INDICATED BY THIS SET OF DOCUMENTS. THE DEPTH STATED BY THE REFERENCED APPROVAL OR TEST REPORT IS THE MINIMUM DEPTH TESTED DEPTH ALLOWED IN THESE DOCUMENTS. SEE STRUCTURAL DOCUMENTS FOR ADDITIONAL INFORMATION PERTAINING TO THE CONSTRUCTION OF CONCRETE, MASONRY AND STUD WALLS
5. PROVIDE FIRE RATED CONSTRUCTION ASSEMBLIES WHERE INDICATED ON SHEETS G100's AND FLOOR PLAN DRAWINGS.
6. ALL DIMENSIONS ARE CENTER OF STUD OR FACE OF CONCRETE, MASONRY OR ROUGH OPENING UNLESS NOTED OTHERWISE. FACE OF FINISHED WALL WILL BE NOTED AS FOW.
7. AT ALL INTERIOR WALLS, STUDS, INSULATION AND GYPSUM BOARD ARE TO EXTEND TO THE DECK ABOVE. UNLESS NOTED OTHERWISE.
8. WALL TYPES NOT NOTED ARE ASSUMED TO MATCH ADJACENT ROOMS. SEE SHEETS FOR FINISHES, NOTIFY ARCHITECT OF ANY DISCREPANCIES.
9. ALL METAL STUD PARTITIONS ARE CONSIDERED ACOUSTIC PARTITIONS AND ARE TO RECEIVE A TYPE 1 SOUND ATTENUATION BLANKET. THICKNESS TO MATCH STUD DEPTH, UNLESS NOTED OTHERWISE.
10. REFER TO SHEET A501 FOR TYPICAL INTERIOR WALL CONDITIONS ASSOCIATED WITH ALL METAL STUD PARTITIONS.
11. PROVIDE CONTROL JOINTS IN METAL FRAMED WALLS AT APPROXIMATELY 30 FEET ON CENTER. LOCATE AT CORNER ABOVE DOORS OR INSIDE CORNER OF PILASTERS OR OTHER INCONSPICUOUS LOCATION WHERE POSSIBLE. **CONSULT WITH ARCHITECT PRIOR TO COMMENCING FRAMING.** INSTALL PER DETAILS ON **A520** FOR CONTROL JOINTS.
12. AT WALL OPENINGS FOR PENETRATION OF PIPES, DUCTS, DEVICES, ETC., GYPSUM BOARD IS TO BE CUT TO MATCH THE SHAPE AND DIMENSION OF THE PENETRATING OBJECT AND THE GAP BETWEEN THE OBJECT AND THE WALL IS TO BE SEALED W/ ACOUSTICAL OR FIRE SEALANT ON ALL SIDES WITH A 3/4" JOINT AT ALL SIDES, MAXIMUM. THE OPENING FOR DUCTS OR LARGE PENETRATIONS SHALL BE FRAMED WITH A HEADER, ADD AN ANGLED CORNER BRACE IF THE GAP EXCEEDS 3" FROM FRAMING TO THE OPENING.
13. CONTRACTOR TO PROVIDE BLOCKING / BACKING FOR ALL WALL MOUNTED EQUIPMENT. SEE FLOOR PLANS AND INTERIOR ELEVATIONS FOR CABINETS, GRAB BARS ETC. INSTALL BLOCKING AS DETAILED OR AS REQUIRED TO MOUNT SUCH DEVICES. ALL BLOCKING IS TO BE FIRE RETARDANT TREATED. INSTALL PER **C3/A520**
14. **WHERE THERE IS LIMITED WATER EXPOSURE:** INSTALL ONE LAYER OF 5/8" TYPE X WATER RESISTANT GYPSUM BOARD PER ASTM C1396 (WHERE GYPSUM BOARD OCCURS) OF BASIC PARTITION AT THE FOLLOWING LOCATIONS:
   a. WITHIN 2 FEET HORIZONTALLY AND 4 FEET VERTICALLY OF JANITORS SINKS
   b. AT OTHER LOCATIONS, I.E. TOILET ROOMS AND KITCHENS, AND AS INDICATED ON THE ARCHITECTURAL FINISH PLANS AND ELEVATIONS.
15. INSTALL ONE LAYER OF 5/8" GLASS MAT TILE BACKER BOARD IN LIEU OF GYPSUM BOARD (WHERE GYPSUM BOARD OCCURS) OF BASIC PARTITION WHERE THERE IS NO FIRE RATING AND OVER GYPSUM BOARD FACE LAYER AT FIRE RATED PARTITIONS AT THE FOLLOWING LOCATIONS.
   a. AT WET LOCATIONS, SUCH AS SHOWER STALLS AND TUB SURROUNDS.
   b. WHERE CERAMIC TILE FINISHES ARE INDICATED PER THE FINISH PLANS AND/OR INTERIOR ELEVATIONS.
   c. AT OTHER LOCATIONS AS INDICATED BY THE ARCHITECTURAL FINISH PLANS AND ELEVATIONS.
16. WHERE NEW WALLS OR FURRING ARE INDICATED TO BE DIMENSIONED OFF OF AN EXISTING WALL, THE NEW WALL SHALL BE STRAIGHT AND PLUMB REGARDLESS OF THE CONDITION OF THE EXISTING WALL.
17. ALL EXTERIOR STUD WALLS TO HAVE CONTINUOUS INSULATION, VAPOR BARRIER AND AIR INFILTRATION BARRIER FOR THE FULL HEIGHT AND LENGTH OF THE WALL,SEAL ALL PENETRATIONS. SEE DETAILS ON SHEET A520 FOR TYPICAL TOP OF WALL CONDITION
18. THE AIR INFILTRATION BARRIER IS TO WRAP INTO ALL WINDOW AND DOOR OPENINGS.
19. SEE DETAIL **E3** ON SHEET **A510** FOR TYPICAL FIRE EXTINGUISHER CABINET INSTALLATION DETAILS

**MASONRY OR CONCRETE WALLS**

1. SEE STRUCTURAL PLANS FOR ADDITIONAL CONCRETE AND MASONRY WALL INFORMATION.
2. SEE EXTERIOR ELEVATIONS FOR COURSING, MASONRY TYPES AND METAL PANEL ORIENTATION PER A2 ELEVATION SHEETS.
3. ALL MASONRY WALLS ARE TO BE REINFORCED AND ARE TO BE SET ON REINFORCED FOOTINGS. SEE THE A2 ELEVATION SHEETS FOR LOCATION OF CONTROL JOINTS. WHERE NOT NOTED, CONTROL JOINTS TO BE LOCATED AS PER THE REQUIREMENTS FOUND IN THE STRUCTURAL DOCUMENTS BUT ARE NOT TO EXCEED 30' OC. SEE THE STRUCTURAL DRAWINGS FOR REINFORCING AND OTHER DETAILS PERTAINING TO MASONRY WALLS. IF NOT OTHERWISE NOTED, LOCATE CONTROL JOINTS AT CORNER ABOVE DOORS, INSIDE CORNER OF PILASTERS OR OTHER INCONSPICUOUS LOCATION WHERE POSSIBLE. CONSULT WITH ARCHITECT PRIOR TO INSTALLING.
4. SEE IBC 2009, CHAPTER 7 FOR FIRE RESISTIVE REQUIREMENTS ON NEW CONCRETE AND CONCRETE MASONRY UNIT WALLS.
   -CMU WALLS (IBC TABLE 720.1(2), ITEM 3)
   -CAST IN PLACE CONCRETE WALLS (IBC TABLE 721.2.1.2(1))
5. REFER TO DETAIL SHEET **A500** FOR TYPICAL WALL CONDITIONS ASSOCIATED WITH ALL AND MASONRY PARTITIONS.
6. AT WALL OPENINGS FOR PENETRATION OF PIPES, DUCTS, DEVICES, ETC., MASONRY IS TO BE CUT TO MATCH THE SHAPE AND DIMENSION OF THE PENETRATING OBJECT AND THE GAP BETWEEN THE OBJECT AND THE WALL IS TO BE SEALED W/ ACOUSTICAL OR FIRE SEALANT ON ALL SIDES WITH A 3/4" JOINT AT ALL SIDES, MAXIMUM.
7. **PROTECTION OF MASONRY:** DURING CONSTRUCTION, COVER TOPS OF WALLS, PROJECTIONS, AND SILLS WITH WATERPROOF SHEETING AT END OF EACH DAY'S WORK, EXCEPT WHEN THE AMBIENT TEMPERATURE IS EXPECTED TO REMAIN ABOVE 65 DEG F AND NO PRECIPITATION IS FORECAST FOR THE NEXT 24 HOURS. (THIS IS TO PREVENT CONDENSATION FROM COVERED WALLS CAUSING A MOISTURE PROBLEM.) COVER PARTIALLY COMPLETED MASONRY EACH DAY THAT CONSTRUCTION IS NOT IN PROGRESS. WALLS ARE TO BE PROTECTED UNTIL THEY ARE PERMANENTLY PROTECTED BY THE ROOFING MEMBRANE OVER THE CAP PLATE. THE GENERAL CONTRACTOR IS TO PROVIDE TEMPORARY PROTECTION IMMEDIATELY FOLLOWING THE TOPPING OUT OF EACH SECTION OF WALL BY INSTALLING WATERPROOF SHEETING OVER A CONTINUOUS CAP PLATE UNTIL THE ROOFING MEMBRANE IS INSTALLED. **A SOLID GROUTED TOP BOND BEAM SHALL NOT BE CONSIDERED ADEQUATE PROTECTION FOR THE WALL.**
8. IT IS ACCEPTABLE TO PLACE NON-INTEGRAL COLORED CMU IN PORTIONS OF WALLS INDICATED TO BE CONSTRUCTED OF INTEGRAL COLOR CMU IF THE DOCUMENTS SHOW THESE PORTIONS OF WALL PAINTED OR COVERED WITH TILE, STUD FURRING, ABOVE CEILINGS OR UNDER ROOFING MEMBRANE. IT IS NOT ACCEPTABLE TO UTILIZE NON INTEGRAL COLORED CMU BEHIND CABINETS, FURNISHINGS AND EQUIPMENT INCLUDING BUT NOT LIMITED TO CLIMBING WALLS AND LOCKERS.
9. AT ALL PAINTED CMU THE HORIZONTAL AND VERTICAL MORTAR JOINTS ARE TO BE CONCAVE. AT ALL HONED BLOCK THE HORIZONTAL MORTAR JOINT IS TO BE A WEATHERED JOINT AND ALL VERTICAL JOINTS ARE TO BE RAKED.
10. PROVIDE A 3/4" CHAMFER ALL INTERIOR EXPOSED VERTICAL MASONRY CORNERS FROM 8" A.F.F. TO BOTTOM OF MASONRY LINTEL OR IF NO LINTEL EXISTS, STOP CHAMFER @ FIRST MASONRY JOINT BELOW CEILING. NOTE THAT THIS CHAMFER IS NOT TO BE PROVIDED AT CORNERS SHOWN IN THESE DOCUMENTS AS COVERED WITH WALL TILE.
11. **PROVIDE SPECIAL SHAPES**, SUCH AS “U” SHAPED CHANNEL FOR LINTELS OR HEADERS AND CAPPING UNITS FOR SASH AND OTHER SPECIAL CONDITIONS.
12. WHERE SPLIT FACE BLOCK IS SHOWN EXTENDING TO THE TOP OF A PARAPET, PROVIDE AN INTEGRAL COLOR SMOOTH FACE BLOCK AT THE TOP COURSE TO ALLOW THE CAP FLASHING TO FIT TIGHT AGAINST THE WALL.

VCBO
ARCHITECTURE
VALENTINER
CRANE
BRUNJES
ONYON

No. 133912
BRENT R. TIPPETS
10.2.12
STATE OF UTAH

VCBO ARCHITECTURE
524 SOUTH 600 EAST
SALT LAKE CITY, UT 84102
Phone: (801) 575-8800
Fax: (801) 531-9850
WWW: www.vcbo.com

DFCM CODE COMPLIANCE STAMP

# Student Activity Center
## Stromberg Addition - BID SET
Weber State University
3750 Harrison Blvd. Ogden, UT 84408

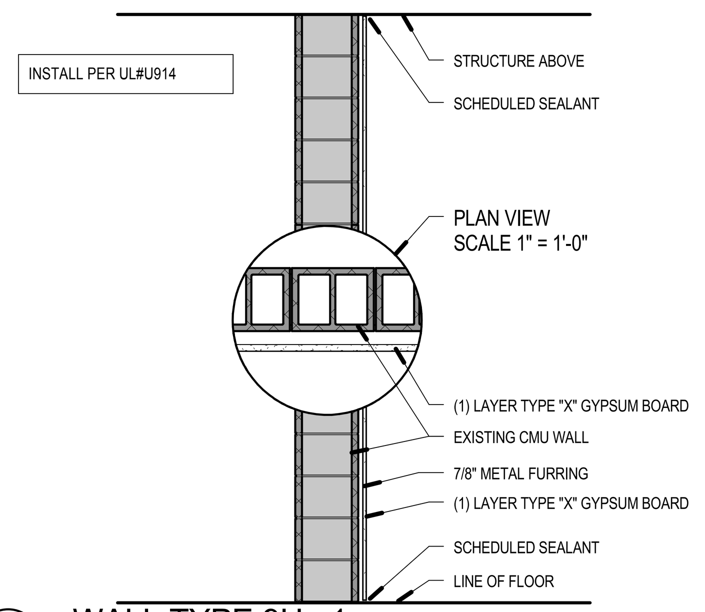
| Rev # | Date | Description |
|---|---|---|

Job # 12475
CAD File
Drawn Author Checked Checker
Date 10.03.2012
Owner # DFCM #12031810

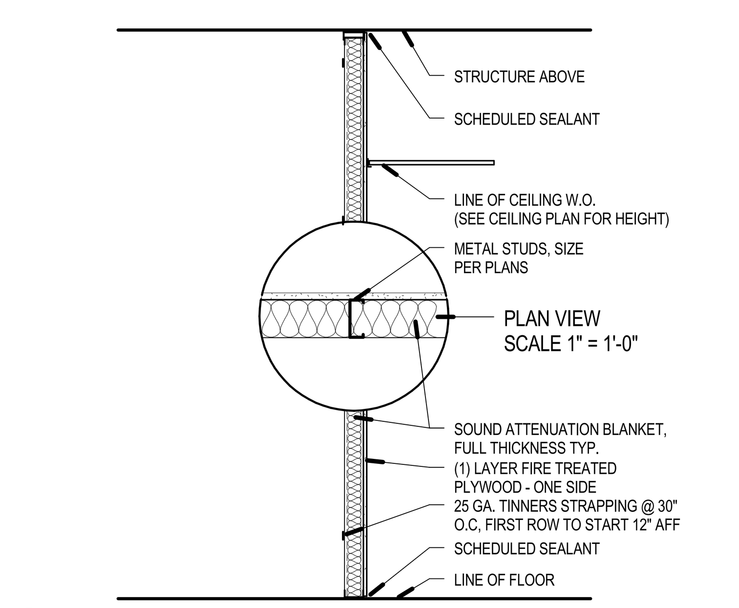
EXTERIOR WALL TYPES AND GENERAL NOTES



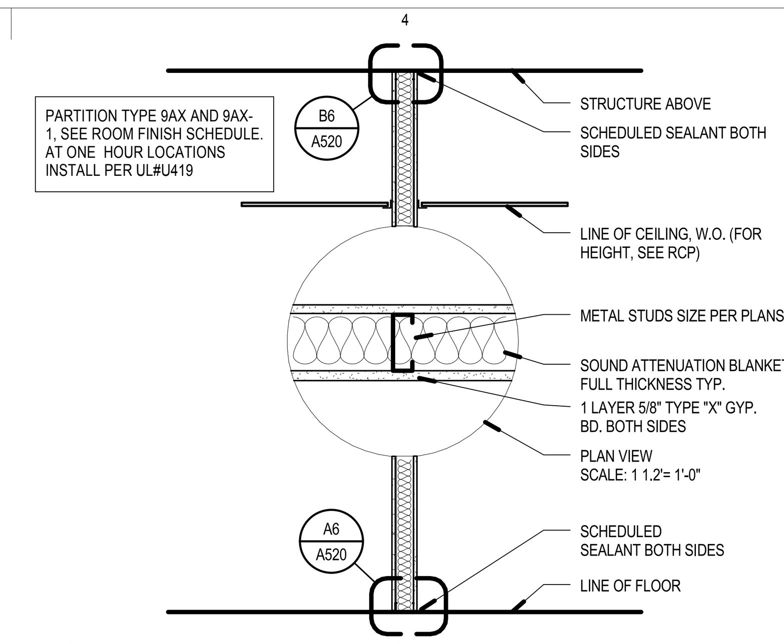
10/3/2012 12:52:18 PM



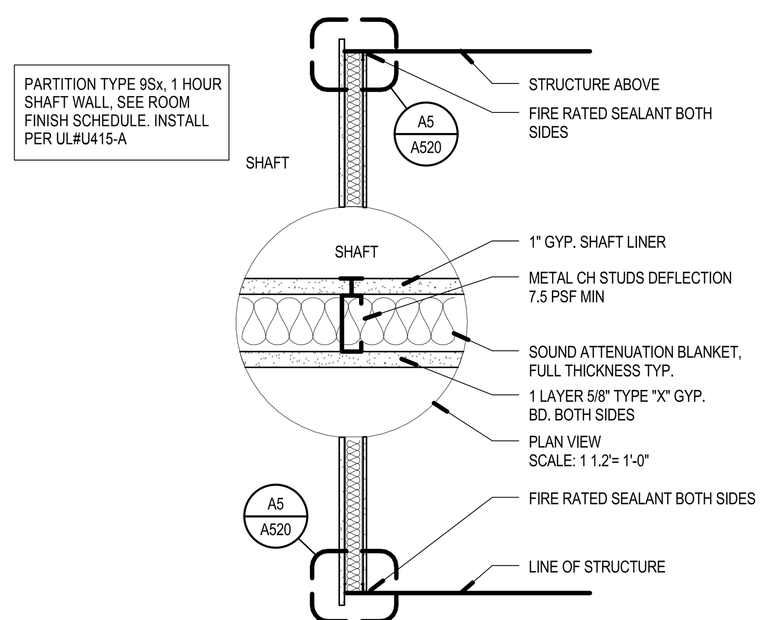

E2 WALL TYPE 9Hx-1
SCALE: NOT TO SCALE



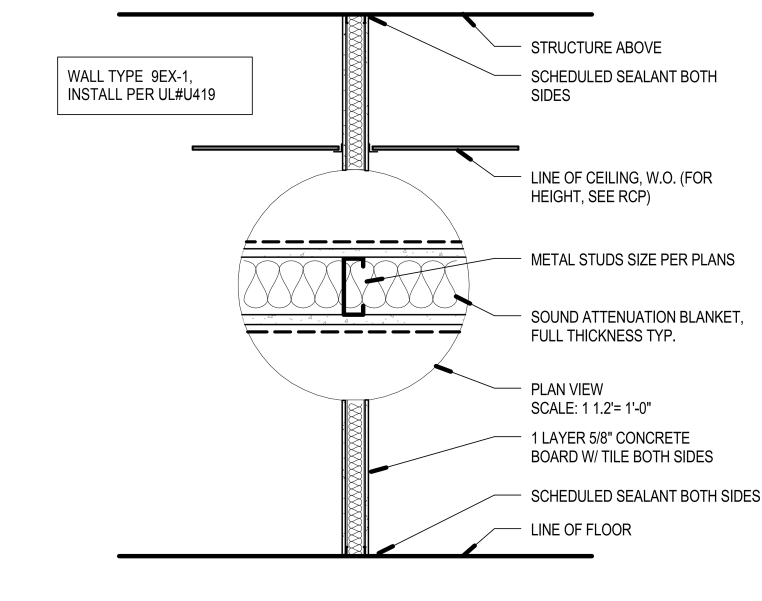

E3 WALL TYPE 9Dx
SCALE: NOT TO SCALE



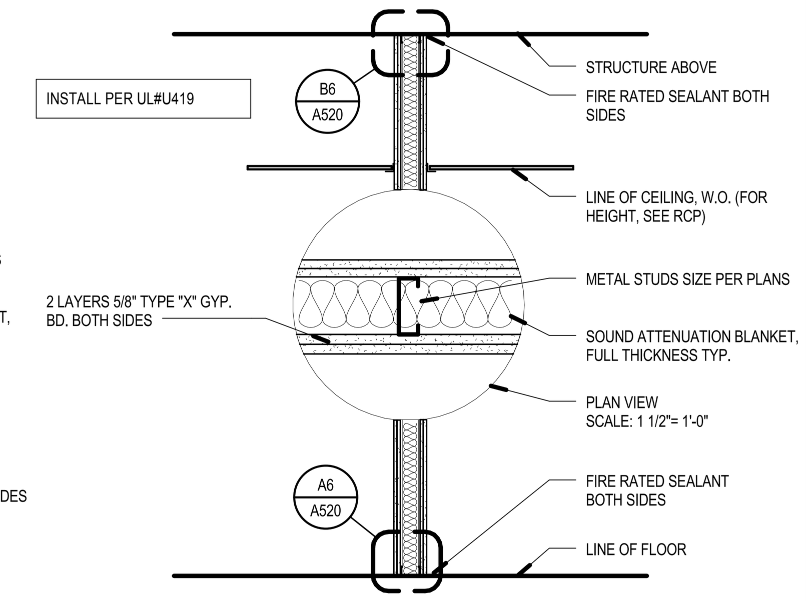

E4 WALL TYPE 9Ax & 9Ax-1
SCALE: NOT TO SCALE



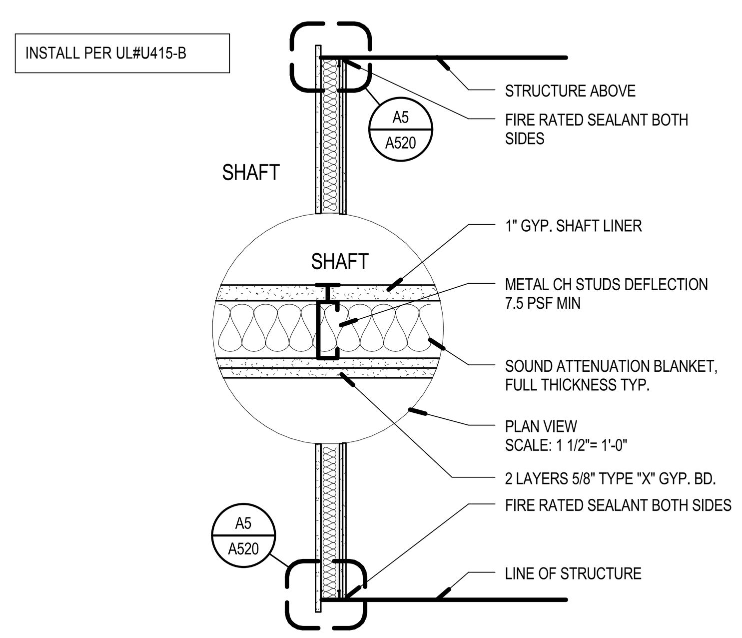

D2 WALL 9Sx-1 HOUR SHAFT WALL
SCALE: NOT TO SCALE



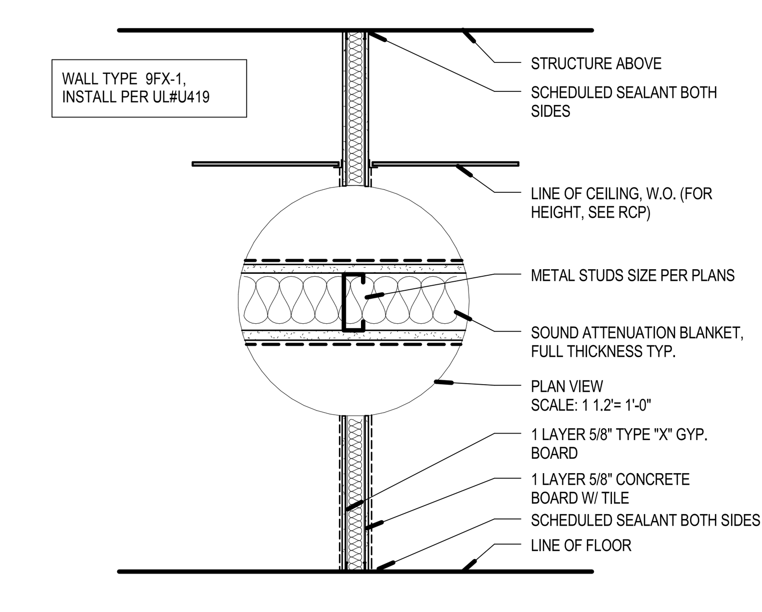

D3 WALL TYPE 9Ex & 9Ex-1
SCALE: NOT TO SCALE



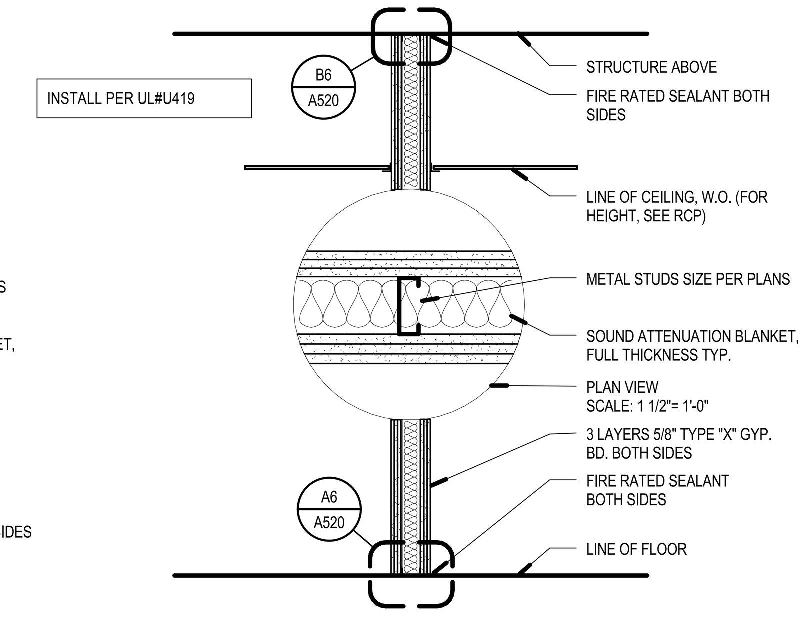

D4 WALL TYPE 9Ax-2
SCALE: NOT TO SCALE



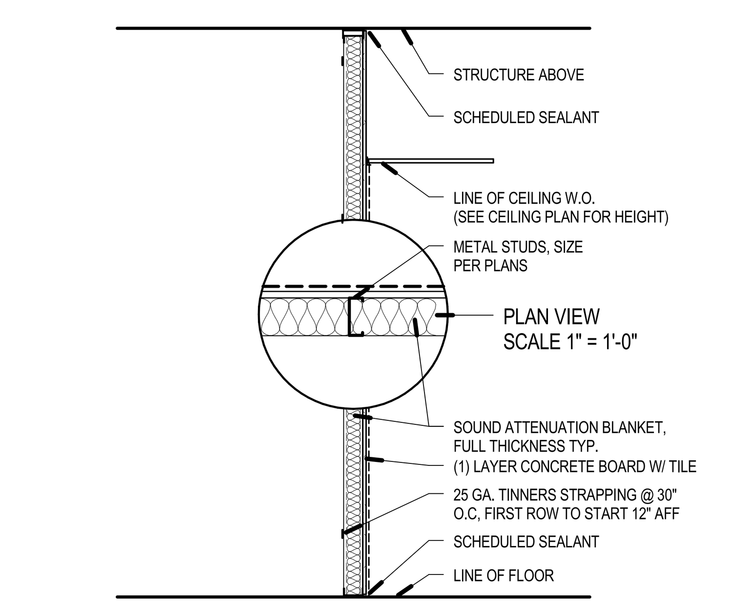

C2 WALL TYPE 9Sx-2 HOUR FIRE WALL
SCALE: NOT TO SCALE



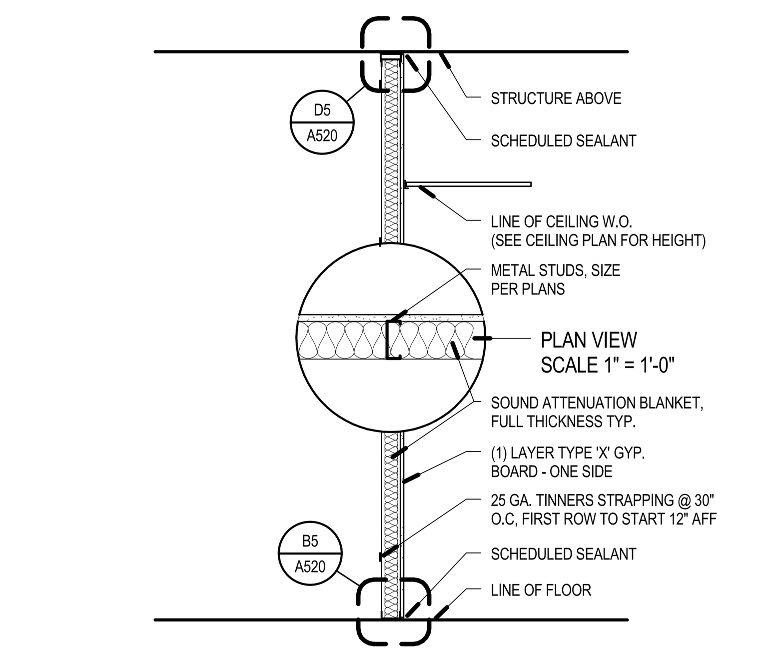

C3 WALL TYPE 9Fx & 9Fx-1
SCALE: NOT TO SCALE



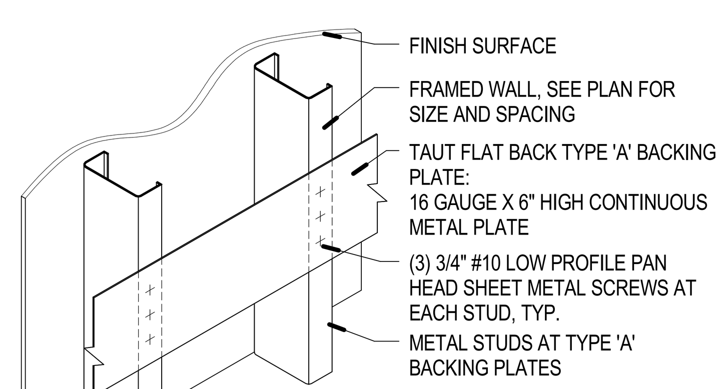

C4 WALL TYPE 9Ax-3
SCALE: NOT TO SCALE




B3 WALL TYPE 9Gx
SCALE: NOT TO SCALE

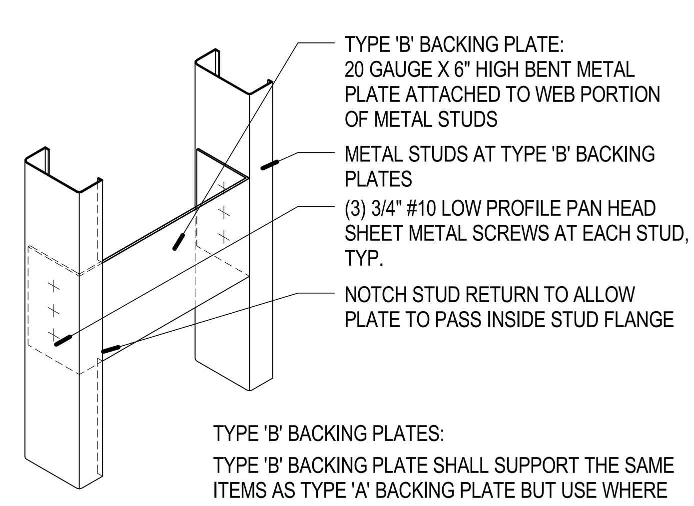



B4 WALL TYPE 9Bx
SCALE: NOT TO SCALE



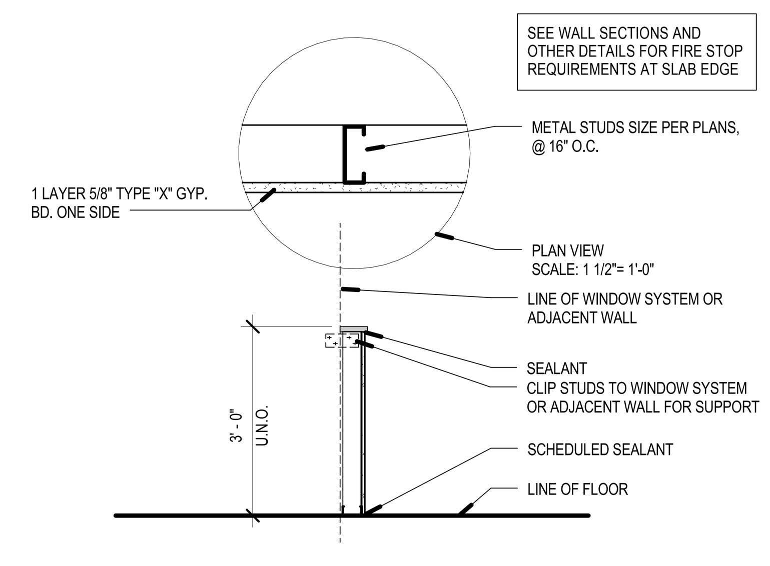

TYPE 'A' BACKING PLATES:
- AT DOOR STOPS AND BUMPER RAILS
- AT TOILET ACCESSORIES, MIRRORS, COAT HOOKS, ETC.
- AT ALL UPPER WALL HUNG CABINETS
- AT ALL BASE CABINETS
- AT ALL FULL HEIGHT CABINETS
- AT WALL MOUNTED ADJUSTABLE SHELVING
- AT ALL WALL MOUNTED HANDRAILS

A1 TYPICAL 'A' BACKING PLATES
SCALE: NOT TO SCALE

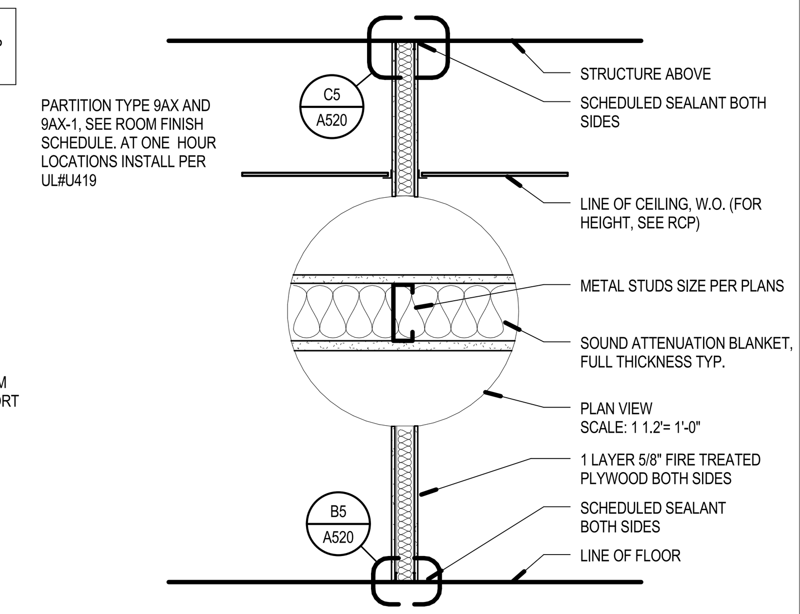



TYPE 'B' BACKING PLATES:
TYPE 'B' BACKING PLATE SHALL SUPPORT THE SAME ITEMS AS TYPE 'A' BACKING PLATE BUT USE WHERE APPEARANCE IS THE MAIN CONCERN SUCH AS LOBBIES AND OTHER HIGH DESIGN AREAS.
VERIFY BACKING CLIPPED TRACK - HEAVILY LOADED AT GRAB BARS, HAND RAILS, WALL HUNG CABINETS

NOTE:
PROVIDE BACKING PLATES AS INDICATED ON THE DRAWINGS OR WHERE NOT INDICATED, ACCORDING TO THE FOLLOWING SCHEDULE. REFER TO DETAILS ELSEWHERE IN THE SET OF DRAWINGS FOR THE SUPPORT OF WALL MOUNTED ITEMS IN EXCESS OF 200 POUNDS




A3 WALL TYPE 9Jx
SCALE: NOT TO SCALE




A4 WALL TYPE 9Cx & 9Cx-1
SCALE: NOT TO SCALE

## KEY FOR PARTITION TYPES

DENOTES TYPE OF CONSTRUCTION (SPEC. DIVISION) — WALL

| | |
|---|---|
| 3X 0 SERIES | CONCRETE |
| 4X 0 SERIES | MASONRY |
| 5X 0 SERIES | COLD FORMED METAL STUDS, 16ga MIN. |
| 9X 0 SERIES | METAL STUDS |

NOMINAL SIZES: V = VARIABLE/MATCHEXISTING
1 = 1 5/8" STUDS
2 = 2 1/2" STUDS
3 = 3 5/8" STUDS
4 = 4" STUDS / 4" (NOM.) C.M.U.
6 = 6" STUDS / 6" (NOM.) C.M.U.
8 = 8" STUDS / 8" (NOM.) C.M.U.
10 = 10" (NOM.) C.M.U. OR CONC.
12 = 12" (NOM.) C.M.U. OR CONC.

EXAMPLE: WALL TYPE 9A3 IS A 3 5/8" METAL STUD WITH 5/8" GYPSUM BOARD ON BOTH SIDES.

NOTE: SEE GENERAL NOTES BELOW FOR ADDITIONAL ELEMENTS IN THE INDIVIDUAL WALL TYPES AND SPECIFIC DETAILS, INCLUDING UL RATINGS.

## RATED WALL LEGEND

- INCIDENTAL USE AREAS
- 1 HOUR SEPARATION
- 2 HOUR SEPARATION
- 3 HOUR SEPARATION

EXAMPLE: WALL TYPE 9A3-1 IS A ONE HOUR RATED, 3 5/8" METAL STUD WALL WITH 5/8" GYPSUM BOARD ON BOTH SIDES, PER ASSEMBLY REQUIREMENTS.

90X-R SERIES
FIRE RATING (ONLY WHEN NOTED):
1 = 1 HOUR RATED ASSEMBLY
2 = 2 HOUR RATED ASSEMBLY
3 = 3 HOUR RATED ASSEMBLY

## NON-BEARING METAL HEADER SCHEDULE

| MAXIMUM SPAN | HEADER | FY |
|---|---|---|
| 4'-0" | (2) 400S137-43 | 33 ksi |
| 6'-0" | (2) 600S162-43 | 33 ksi |
| 8'-0" | (2) 800S162-43 | 33 ksi |

METAL STUD HEADER NOTES:

1. SCHEDULE TO BE USED FOR NON-BEARING WALLS.
2. HEADERS TO BE CONSTRUCTED AS BOX HEADERS PER SSMA STANDARDS.
3. SEE TYPICAL DETAIL FOR MORE INFORMATION.

## NON-BEARING METAL STUD GAUGE SIZING

400S137-43
- MEMBER DEPTH IN 1/100 INCHES
- STYLE (S=STUD OR JOIST)
- FLANGE WIDTH IN 1/100 INCHES
- MATERIAL THICKNESS IN MILS

| MEMBER DEPTH | MAX STUD HEIGHT | MIN. GA. & SPACING |
|---|---|---|
| 2 1/2" (250S125-33) | 10'-0" | 20@16" O.C. |
| 3 5/8" (362S125-33) | 14'-0" | 20@16" O.C. |
| 3 5/8" (362S162-33) | 16'-0" | 20@16" O.C. |
| 3 5/8" (362S162-43) | 18'-0" | 18@16" O.C. |
| 6" (600S162-33) | 24'-0" | 20@16" O.C. |
| 6" (600S162-43) | 26'-0" | 18@16" O.C. |
| 6" (600S162-54-50KSI) | 28'-0" | 16@16" O.C. |

METAL STUD NOTES:

1. STEEL STUDS SHALL MEET ICC REPORT ER-4943P AND THE SSMA STANDARDS. HEIGHT BASED ON SSMA 2001 CATALOG AND PROJECT REQUIREMENTS.
2. SEE SCHEDULE FOR STUD SPACING AND GAUGE. ALL STUDS AND BRACES SHALL BE 33 KSI UNLESS NOTED OTHERWISE IN THESE DRAWINGS.
3. AT ALL DOORS PROVIDE TWO TABBED 18 GAUGE STUDS AT BOTH SIDES OF JAMB.

## PARTITION AND FRAMING GENERAL NOTES

**FRAMED WALL PARTITIONS**

1. PARTITION TYPE INDICATIONS ARE INDEPENDANT OF APPLIED FINISHES. SEE THE FINISH SHEETS AND INTERIOR ELEVATIONS FOR WALL FINISHES INCLUDING TILE COURSING AND LAYOUT AND/OR THE DESIGNATIONS ON THE PLANS FOR ADDITIONAL INFORMATION REGARDING APPLIED FINISHES.
2. WHERE PARTITION TYPE DESIGNATION ON FLOOR PLANS IS INTERRUPTED BY DOOR OPENING, GLAZED PARTITION, ETC., CONSTRUCTION ABOVE INTERRUPTION (AND WHERE APPLICABLE BELOW) IS TO BE THE SAME AS THAT DESIGNATED FOR THE PARTITION IN WHICH THE INTERRUPTION OCCURRED.
3. THE MINIMUM REQUIREMENTS FOR CONSTRUCTION OF EACH PARTITION TYPE AS EXPRESSED BY THE INDICATED REFERENCE ARE INCORPORATED BY REFERENCE AND ARE APPLICABLE TO THE WORK OF THIS PROJECT. HOWEVER, ADDITIONAL AND/OR MORE RESTRICTIVE REQUIREMENTS MAY BE INDICATED BY THE SPECIFICATIONS AND DRAWINGS. SUCH REQUIREMENTS ALSO APPLY AND SHALL GOVERN. SUCH REQUIREMENTS INCLUDE BUT ARE NOT LIMITED TO:
   a. USE 5/8" THICK GYPSUM BOARD THROUGHOUT UNLESS NOTED OTHERWISE.
   b. USE 16" OC MAX STUD SPACING UNLESS NOTED OTHERWISE IN THESE DOCUMENTS. THE SPACING STATED BY THE REFERENCED APPROVAL OR TEST REPORT IS THE MAX SPACING IF ALLOWED IN THESE DOCUMENTS.
   c. USE STUDS OF GAGE INDICATED ON THE DRAWINGS OR IN THE SPECIFICATIONS. THE GAGE STATED BY THE REFERENCED APPROVAL OR TEST REPORT IS THE MINIMUM GAGE TESTED, 20 GA (30 MILS) IS THE MINIMUM ALLOWED IN THESE DOCUMENTS.
4. USE STUDS OF DEPTH INDICATED BY THIS SET OF DOCUMENTS. THE DEPTH STATED BY THE REFERENCED APPROVAL OR TEST REPORT IS THE MINIMUM DEPTH TESTED DEPTH ALLOWED IN THESE DOCUMENTS. SEE STRUCTURAL DOCUMENTS FOR ADDITIONAL INFORMATION PERTAINING TO THE CONSTRUCTION OF CONCRETE, MASONRY AND STUD WALLS
5. PROVIDE FIRE RATED CONSTRUCTION ASSEMBLIES WHERE INDICATED ON SHEETS G100's AND FLOOR PLAN DRAWINGS.
6. ALL DIMENSIONS ARE CENTER OF STUD OR FACE OF CONCRETE, MASONRY OR ROUGH OPENING UNLESS NOTED OTHERWISE. FACE OF FINISHED WALL WILL BE NOTED AS FOW.
7. AT ALL INTERIOR WALLS, STUDS, INSULATION AND GYPSUM BOARD ARE TO EXTEND TO THE DECK ABOVE. UNLESS NOTED OTHERWISE.
8. WALL TYPES NOT NOTED ARE ASSUMED TO MATCH ADJACENT ROOMS. SEE SHEETS FOR FINISHES, NOTIFY ARCHITECT OF ANY DISCREPANCIES.
9. ALL METAL STUD PARTITIONS ARE CONSIDERED ACOUSTIC PARTITIONS AND ARE TO RECEIVE A TYPE 1 SOUND ATTENUATION BLANKET. THICKNESS TO MATCH STUD DEPTH, UNLESS NOTED OTHERWISE.
10. REFER TO SHEET A501 FOR TYPICAL INTERIOR WALL CONDITIONS ASSOCIATED WITH ALL METAL STUD PARTITIONS.
11. PROVIDE CONTROL JOINTS IN METAL FRAMED WALLS AT APPROXIMATELY 30 FEET ON CENTER. LOCATE AT CORNER ABOVE DOORS OR INSIDE CORNER OF PILASTERS OR OTHER INCONSPICUOUS LOCATION WHERE POSSIBLE. **CONSULT WITH ARCHITECT PRIOR TO COMMENCING FRAMING.** INSTALL PER DETAILS ON **A520** FOR CONTROL JOINTS.
12. AT WALL OPENINGS FOR PENETRATION OF PIPES, DUCTS, DEVICES, ETC., GYPSUM BOARD IS TO BE CUT TO MATCH THE SHAPE AND DIMENSION OF THE PENETRATING OBJECT AND THE GAP BETWEEN THE OBJECT AND THE WALL IS TO BE SEALED W/ ACOUSTICAL OR FIRE SEALANT ON ALL SIDES WITH A 3/4" JOINT AT ALL SIDES, MAXIMUM. THE OPENING FOR DUCTS OR LARGE PENETRATIONS SHALL BE FRAMED WITH A HEADER, ADD AN ANGLED CORNER BRACE IF THE GAP EXCEEDS 3" FROM FRAMING TO THE OPENING.
13. CONTRACTOR TO PROVIDE BLOCKING / BACKING FOR ALL WALL MOUNTED EQUIPMENT. SEE FLOOR PLANS AND INTERIOR ELEVATIONS FOR CABINETS, GRAB BARS ETC. INSTALL BLOCKING AS DETAILED OR AS REQUIRED TO MOUNT SUCH DEVICES. ALL BLOCKING IS TO BE FIRE RETARDANT TREATED. INSTALL PER **C3/A520**
14. **WHERE THERE IS LIMITED WATER EXPOSURE:** INSTALL ONE LAYER OF 5/8" TYPE X WATER RESISTANT GYPSUM BOARD PER ASTM C1396 (WHERE GYPSUM BOARD OCCURS) OF BASIC PARTITION AT THE FOLLOWING LOCATIONS:
   a. WITHIN 2 FEET HORIZONTALLY AND 4 FEET VERTICALLY OF JANITORS SINKS
   b. AT OTHER LOCATIONS, I.E. TOILET ROOMS AND KITCHENS, AND AS INDICATED ON THE ARCHITECTURAL FINISH PLANS AND ELEVATIONS.
15. INSTALL ONE LAYER OF 5/8" GLASS MAT TILE BACKER BOARD IN LIEU OF GYPSUM BOARD (WHERE GYPSUM BOARD OCCURS) OF BASIC PARTITION WHERE THERE IS NO FIRE RATING AND OVER GYPSUM BOARD FACE LAYER AT FIRE RATED PARTITIONS AT THE FOLLOWING LOCATIONS.
   a. AT WET LOCATIONS, SUCH AS SHOWER STALLS AND TUB SURROUNDS.
   b. WHERE CERAMIC TILE FINISHES ARE INDICATED PER THE FINISH PLANS AND/OR INTERIOR ELEVATIONS.
   c. AT OTHER LOCATIONS AS INDICATED BY THE ARCHITECTURAL FINISH PLANS AND ELEVATIONS.
16. WHERE NEW WALLS OR FURRING ARE INDICATED TO BE DIMENSIONED OFF OF AN EXISTING WALL, THE NEW WALL SHALL BE STRAIGHT AND PLUMB REGARDLESS OF THE CONDITION OF THE EXISTING WALL.
17. ALL EXTERIOR STUD WALLS TO HAVE CONTINUOUS INSULATION, VAPOR BARRIER AND AIR INFILTRATION BARRIER FOR THE FULL HEIGHT AND LENGTH OF THE WALL,SEAL ALL PENETRATIONS. SEE DETAILS ON SHEET A520 FOR TYPICAL TOP OF WALL CONDITION
18. THE AIR INFILTRATION BARRIER IS TO WRAP INTO ALL WINDOW AND DOOR OPENINGS.
19. SEE DETAIL **E3** ON SHEET **A510** FOR TYPICAL FIRE EXTINGUISHER CABINET INSTALLATION DETAILS

**MASONRY OR CONCRETE WALLS**

1. SEE STRUCTURAL PLANS FOR ADDITIONAL CONCRETE AND MASONRY WALL INFORMATION.
2. SEE EXTERIOR ELEVATIONS FOR COURSING, MASONRY TYPES AND METAL PANEL ORIENTATION PER A2 ELEVATION SHEETS.
3. ALL MASONRY WALLS ARE TO BE REINFORCED AND ARE TO BE SET ON REINFORCED FOOTINGS. SEE THE A2 ELEVATION SHEETS FOR LOCATION OF CONTROL JOINTS. WHERE NOT NOTED, CONTROL JOINTS TO BE LOCATED AS PER THE REQUIREMENTS FOUND IN THE STRUCTURAL DOCUMENTS BUT ARE NOT TO EXCEED 30' OC. SEE THE STRUCTURAL DRAWINGS FOR REINFORCING AND OTHER DETAILS PERTAINING TO MASONRY WALLS. IF NOT OTHERWISE NOTED, LOCATE CONTROL JOINTS AT CORNER ABOVE DOORS, INSIDE CORNER OF PILASTERS OR OTHER INCONSPICUOUS LOCATION WHERE POSSIBLE. CONSULT WITH ARCHITECT PRIOR TO INSTALLING.
4. SEE IBC 2009, CHAPTER 7 FOR FIRE RESISTIVE REQUIREMENTS ON NEW CONCRETE AND CONCRETE MASONRY UNIT WALLS.
   -CMU WALLS (IBC TABLE 720.1(2), ITEM 3)
   -CAST IN PLACE CONCRETE WALLS (IBC TABLE 721.2.1.2(1))
5. REFER TO DETAIL SHEET **A500** FOR TYPICAL WALL CONDITIONS ASSOCIATED WITH ALL AND MASONRY PARTITIONS.
6. AT WALL OPENINGS FOR PENETRATION OF PIPES, DUCTS, DEVICES, ETC., MASONRY IS TO BE CUT TO MATCH THE SHAPE AND DIMENSION OF THE PENETRATING OBJECT AND THE GAP BETWEEN THE OBJECT AND THE WALL IS TO BE SEALED W/ ACOUSTICAL OR FIRE SEALANT ON ALL SIDES WITH A 3/4" JOINT AT ALL SIDES, MAXIMUM.
7. **PROTECTION OF MASONRY:** DURING CONSTRUCTION, COVER TOPS OF WALLS, PROJECTIONS, AND SILLS WITH WATERPROOF SHEETING AT END OF EACH DAY'S WORK, EXCEPT WHEN THE AMBIENT TEMPERATURE IS EXPECTED TO REMAIN ABOVE 65 DEG F AND NO PRECIPITATION IS FORECAST FOR THE NEXT 24 HOURS. (THIS IS TO PREVENT CONDENSATION FROM COVERED WALLS CAUSING A MOISTURE PROBLEM.) COVER PARTIALLY COMPLETED MASONRY EACH DAY THAT CONSTRUCTION IS NOT IN PROGRESS. WALLS ARE TO BE PROTECTED UNTIL THEY ARE PERMANENTLY PROTECTED BY THE ROOFING MEMBRANE OVER THE CAP PLATE. THE GENERAL CONTRACTOR IS TO PROVIDE TEMPORARY PROTECTION IMMEDIATELY FOLLOWING THE TOPPING OUT OF EACH SECTION OF WALL BY INSTALLING WATERPROOF SHEETING OVER A CONTINUOUS CAP PLATE UNTIL THE ROOFING MEMBRANE IS INSTALLED. **A SOLID GROUTED TOP BOND BEAM SHALL NOT BE CONSIDERED ADEQUATE PROTECTION FOR THE WALL.**
8. IT IS ACCEPTABLE TO PLACE NON-INTEGRAL COLORED CMU IN PORTIONS OF WALLS INDICATED TO BE CONSTRUCTED OF INTEGRAL COLOR CMU IF THE DOCUMENTS SHOW THESE PORTIONS OF WALL PAINTED OR COVERED WITH TILE, STUD FURRING, ABOVE CEILINGS OR UNDER ROOFING MEMBRANE. IT IS NOT ACCEPTABLE TO UTILIZE NON INTEGRAL COLORED CMU BEHIND CABINETS, FURNISHINGS AND EQUIPMENT INCLUDING BUT NOT LIMITED TO CLIMBING WALLS AND LOCKERS.
9. AT ALL PAINTED CMU THE HORIZONTAL AND VERTICAL MORTAR JOINTS ARE TO BE CONCAVE. AT ALL HONED BLOCK THE HORIZONTAL MORTAR JOINT IS TO BE A WEATHERED JOINT AND ALL VERTICAL JOINTS ARE TO BE RAKED.
10. PROVIDE A 3/4" CHAMFER ALL INTERIOR EXPOSED VERTICAL MASONRY CORNERS FROM 8" A.F.F. TO BOTTOM OF MASONRY LINTEL OR IF NO LINTEL EXISTS, STOP CHAMFER @ FIRST MASONRY JOINT BELOW CEILING. NOTE THAT THIS CHAMFER IS NOT TO BE PROVIDED AT CORNERS SHOWN IN THESE DOCUMENTS AS COVERED WITH WALL TILE.
11. **PROVIDE SPECIAL SHAPES**, SUCH AS “U” SHAPED CHANNEL FOR LINTELS OR HEADERS AND CAPPING UNITS FOR SASH AND OTHER SPECIAL CONDITIONS.
12. WHERE SPLIT FACE BLOCK IS SHOWN EXTENDING TO THE TOP OF A PARAPET, PROVIDE AN INTEGRAL COLOR SMOOTH FACE BLOCK AT THE TOP COURSE TO ALLOW THE CAP FLASHING TO FIT TIGHT AGAINST THE WALL.

VCBO ARCHITECTURE
VALENTINER CRANE BRUNJES ONYON


BRENT R. TIPPETS 10.2.12 STATE OF UTAH

VCBO ARCHITECTURE
524 SOUTH 600 EAST
SALT LAKE CITY, UT 84102
Phone: (801) 575-8800
Fax: (801) 531-9850
WWW: www.vcbo.com


DFCM CODE COMPLIANCE STAMP

# Student Activity Center
## Stromberg Addition - BID SET
Weber State University
3750 Harrison Blvd. Ogden, UT 84408

Rev # Date Description

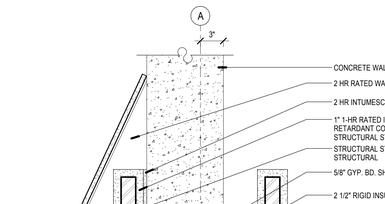
Job # 12475
CAD File
Drawn Author Checked Checker
Date 10.03.2012
Owner # DFCM #12031810

INTERIOR WALL TYPES

A501

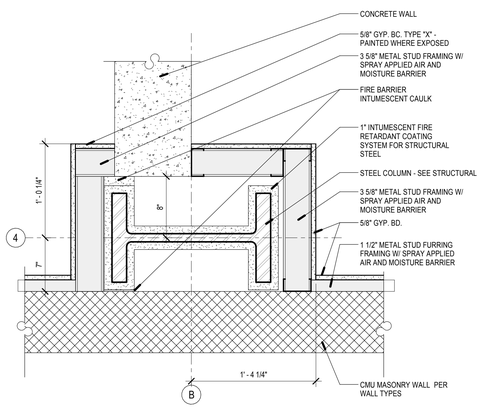
10/3/2012 12:52:22 PM

EXP. JOINT AT GRID 5 & E.5 DETAIL TO BE PROVIDED



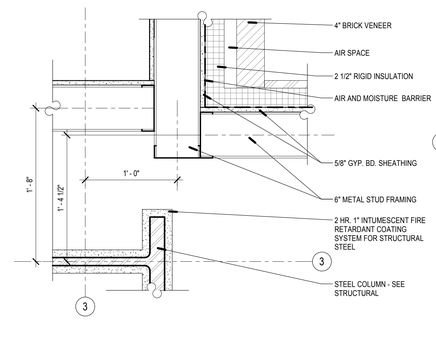
E2 EXP. JOINT AT GRID 5 & E.5

SCALE: 1 1/2" = 1'-0"



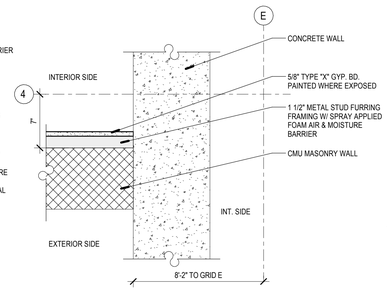

E3 COLUMN B4

SCALE: 1 1/2" = 1'-0"




E5 BRICK VENEER TO METAL

SCALE: 1 1/2" = 1'-0"



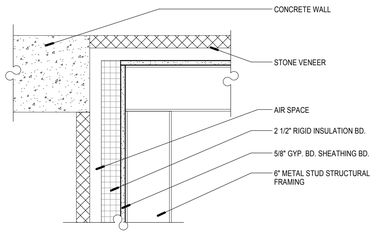

E6 MASONRY WALL TO CONC.

SCALE: 1 1/2" = 1'-0"



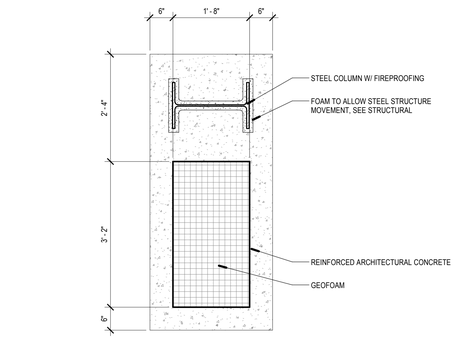
C2 RATED WALL AT COLUMN A4

SCALE: 1 1/2" = 1'-0"



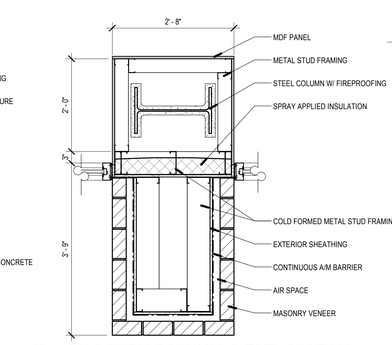

C3 CONC. WALL TO STONE VENEER

SCALE: 1 1/2" = 1'-0"



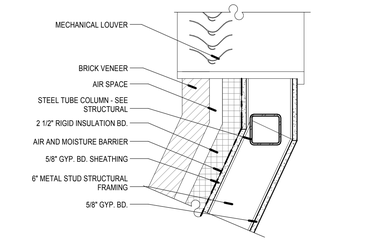

C5 CONCRETE COLUMN @ PARKING

SCALE: 3/4" = 1'-0"



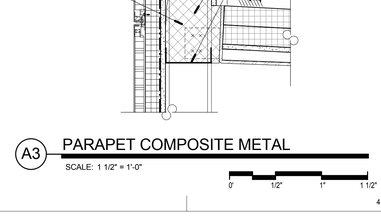

C6 MASONRY COLUMN @ EXT. GLAZING

SCALE: 3/4" = 1'-0"



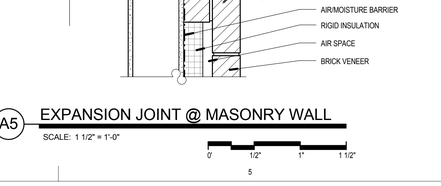

C2 RATED WALL AT COLUMN A4

SCALE: 1 1/2" = 1'-0"




C3 CONC. WALL TO STONE VENEER

SCALE: 1 1/2" = 1'-0"




C5 CONCRETE COLUMN @ PARKING

SCALE: 3/4" = 1'-0"



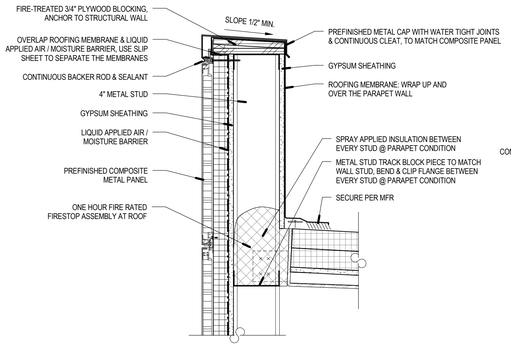

C6 MASONRY COLUMN @ EXT. GLAZING

SCALE: 3/4" = 1'-0"



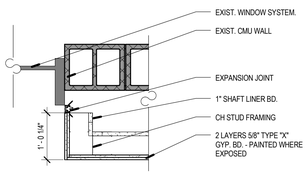

A2 LOUVER DETAIL

SCALE: 1 1/2" = 1'-0"



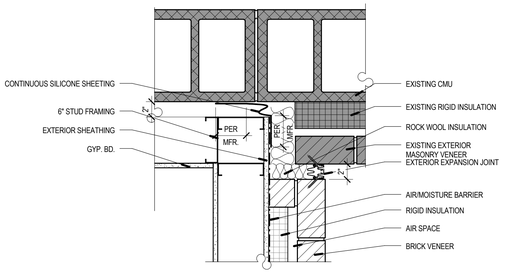

A3 PARAPET COMPOSITE METAL

SCALE: 1 1/2" = 1'-0"



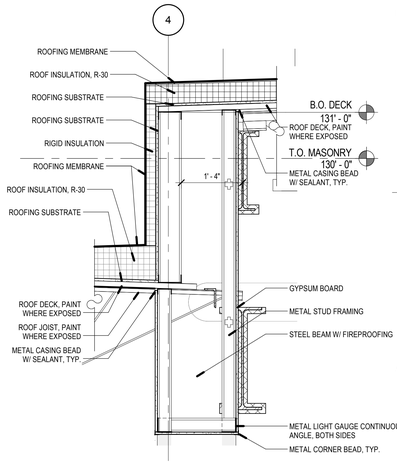

B5 EXPANSION JOINT DET.

SCALE: 3/4" = 1'-0"




A5 EXPANSION JOINT @ MASONRY WALL

SCALE: 1 1/2" = 1'-0"




A6 ROOF POP UP @ GRID 4

SCALE: 3/4" = 1'-0"

VCBO
ARCHITECTURE
VALENTINER
CRANE
BRUNJES
ONYON

VCBO ARCHITECTURE
524 SOUTH 600 EAST
SALT LAKE CITY, UT 84102
Phone: (801) 575-8800
Fax: (801) 531-9850
WWW: www.vcbo.com

REGISTERED ARCHITECT
STATE OF UTAH
No. 13392
BRENT R. TIPPETS
10-2-12

DFCM CODE COMPLIANCE STAMP

# Student Activity Center
## Stromberg Addition - BID SET
Weber State University
3750 Harrison Blvd. Ogden, UT 84408

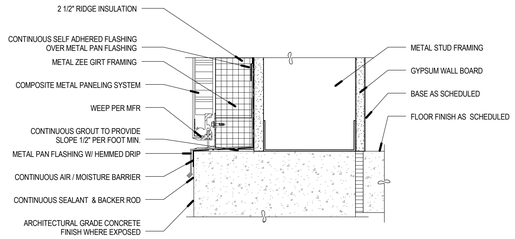
| Rev # | Date | Description |
|---|---|---|

Job # 12475
CAD File
Drawn Author Checked Checker
Date 10.03.2012
Owner # DFCM #12031810

EXTERIOR ENVELOPE DETAILS

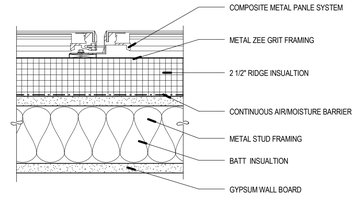
A510

10/3/2012 12:52:29 PM



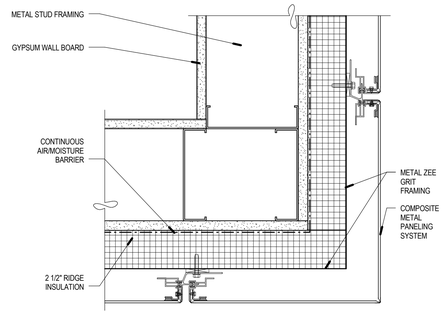

B4 METAL PANEL @ BASE DETAIL

SCALE: 3" = 1'-0"



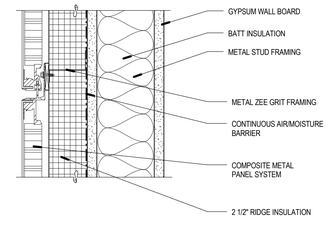

B5 VERTICAL JOINT DETAIL

SCALE: 3" = 1'-0"




A4 ALPOLIC PANEL DETAIL

SCALE: 3" = 1'-0"




A5 HORIZONTAL JOINT DETAIL

SCALE: 3" = 1'-0"

VCBO
ARCHITECTURE
VALENTINER
CRANE
BRUNJES
ONYON

VCBO ARCHITECTURE
524 SOUTH 600 EAST
SALT LAKE CITY, UT 84102
Phone: (801) 575-8800
Fax: (801) 531-9850
WWW: www.vcbo.com

DFCM CODE COMPLIANCE STAMP

# Student Activity Center
## Stromberg Addition - BID SET
Weber State University
3750 Harrison Blvd. Ogden, UT 84408

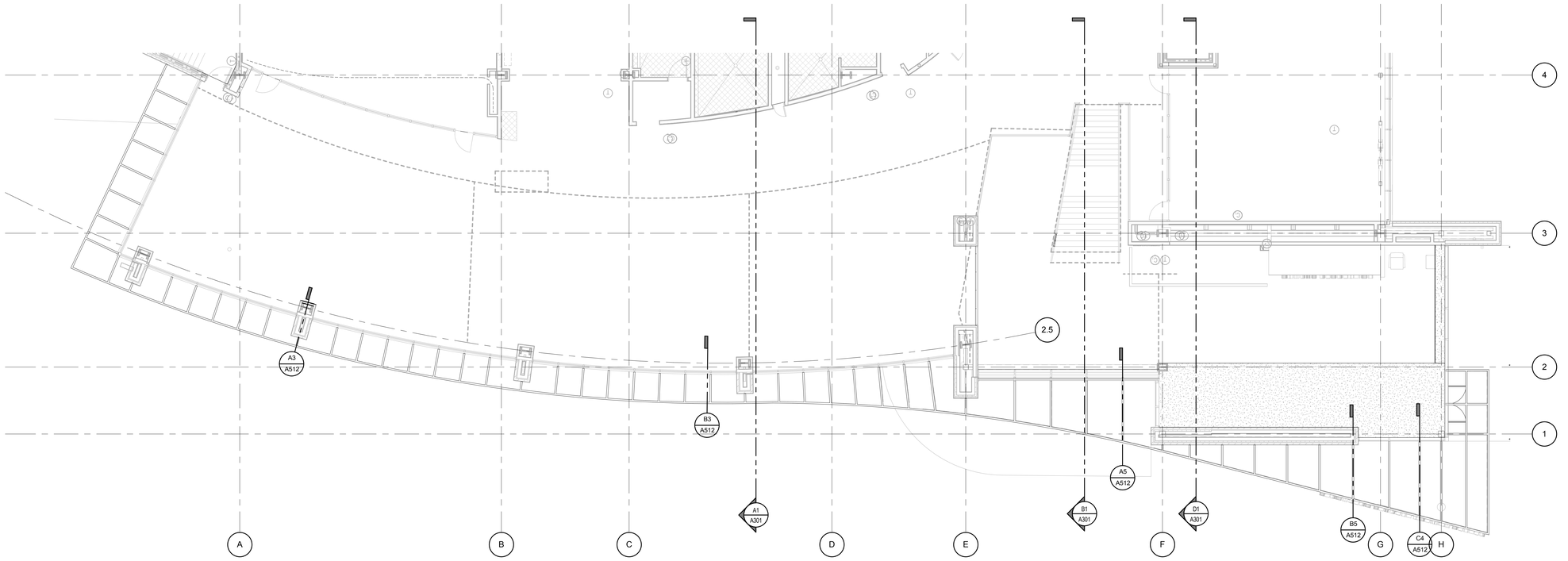
| Rev # | Date | Description |
|---|---|---|

Job # 12475
CAD File
Drawn Author Checked Checker
Date 10.03.2012
Owner # DFCM #12031810

EXTERIOR ENVELOPE DETAILS

A511

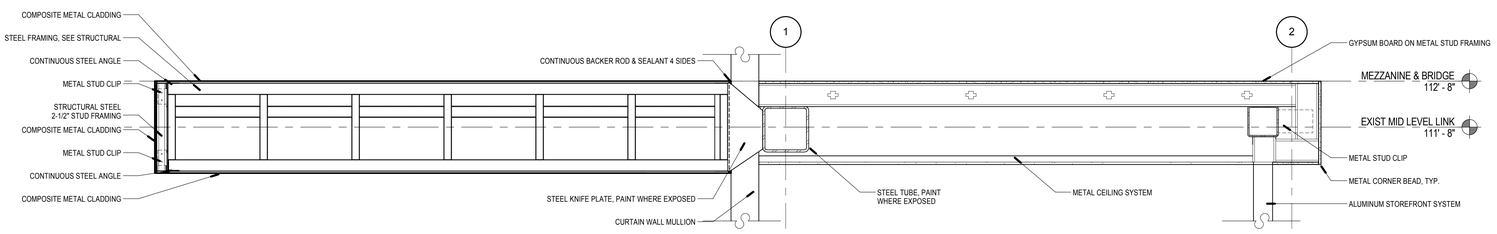
10/3/2012 12:52:31 PM




## C1 LEVEL 02 VISOR PLAN

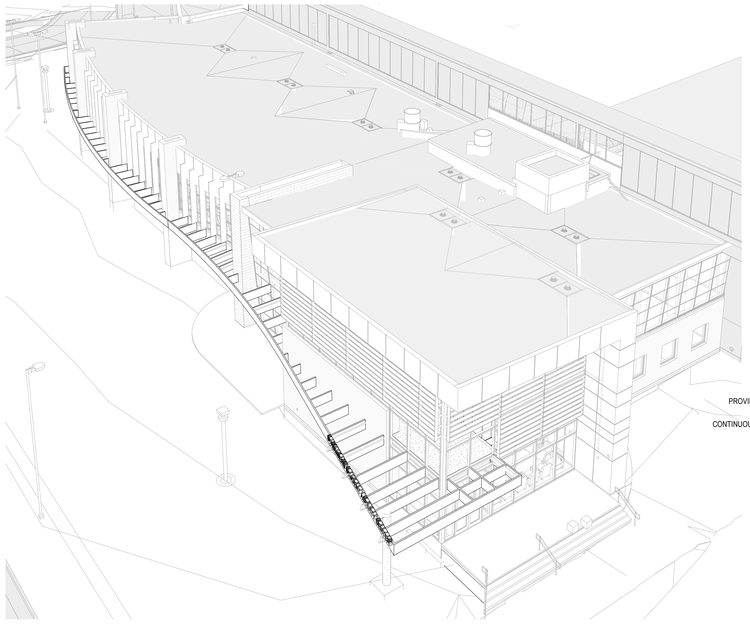
SCALE: 1/8" = 1'-0"

0' 4' 8' 16' 24'



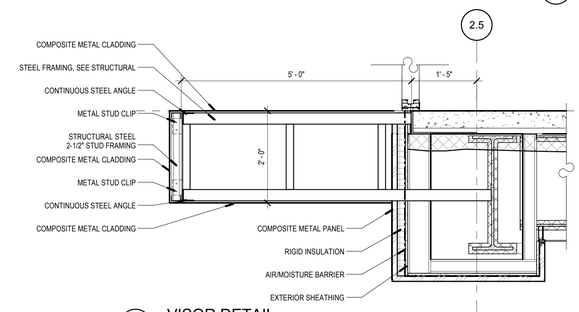

## C4 VISOR @ MASONRY / WIND GIRT1

SCALE: 3/4" = 1'-0"



## A1 COMPOSITE METAL VISOR

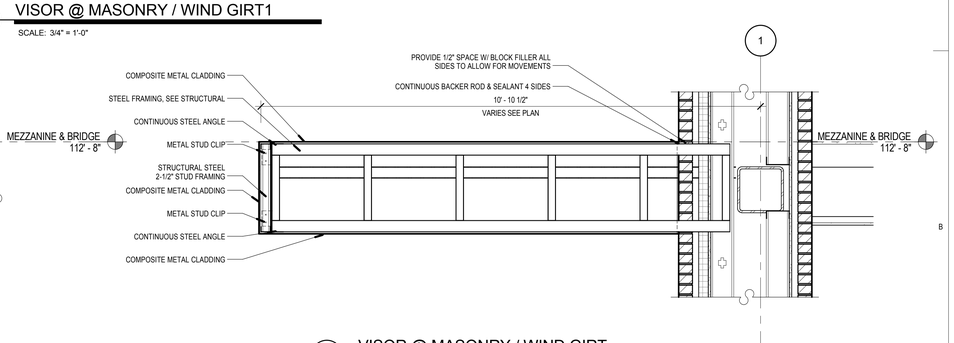
SCALE: N.T.S.




## B3 VISOR DETAIL

SCALE: 3/4" = 1'-0"

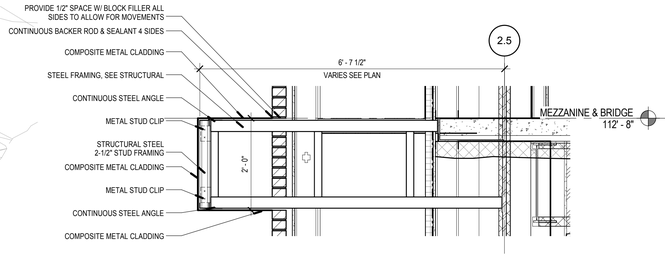
0' 1' 2' 4'




## B5 VISOR @ MASONRY / WIND GIRT

SCALE: 3/4" = 1'-0"

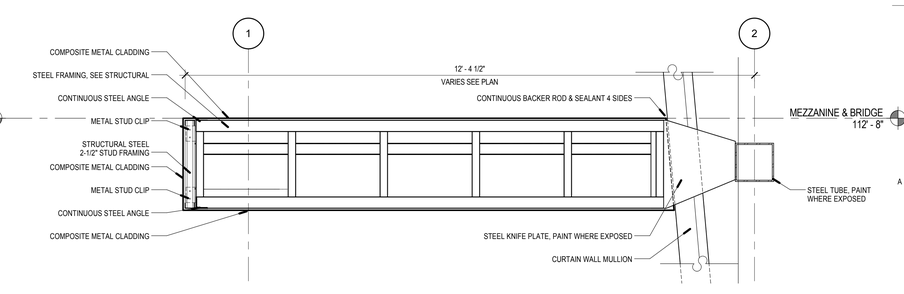
0' 1' 2' 4'




## A3 VISOR @ MASORY PIER

SCALE: 3/4" = 1'-0"

0' 1' 2' 4'




## A5 VISOR @ WIND GIRT

SCALE: 3/4" = 1'-0"

0' 1' 2' 4'

VCBO
ARCHITECTURE
VALENTINER
CRANE
BRUNJES
ONYON

VCBO ARCHITECTURE
524 SOUTH 600 EAST
SALT LAKE CITY, UT 84102
Phone: (801) 575-8800
Fax: (801) 531-9850
WWW: www.vcbo.com

LICENSED ARCHITECT
5139
BRENT R. TIPPETS
10-2-12
STATE OF UTAH

DFCM CODE COMPLIANCE STAMP

# Student Activity Center
## Stromberg Addition - BID SET
Weber State University
3750 Harrison Blvd. Ogden, UT 84408

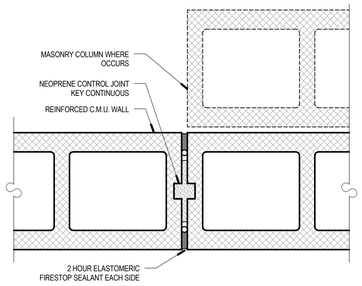
| Rev # | Date | Description |
|---|---|---|

Job # 12475
CAD File
Drawn Author Checked Checker
Date 10.03.2012
Owner # DFCM #12031810

COMPOSITE METAL VISOR DETAILS

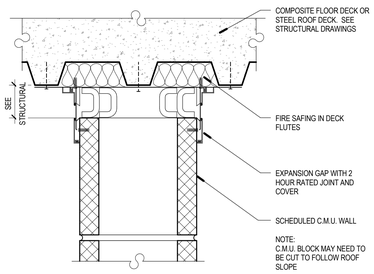
A512

10/3/2012 12:52:54 PM



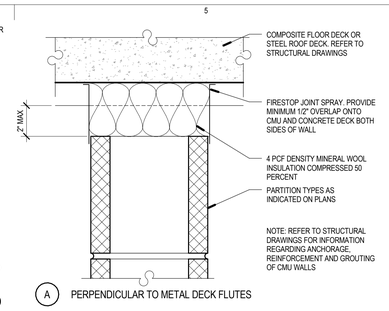

E3 2 HOUR CONTROL JOINT, TYP.

SCALE: 3" = 1'-0"

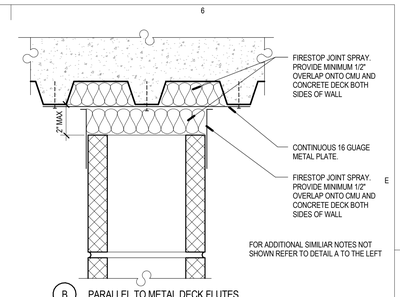



E4 TYPICAL EXPANSION C.M.U. WALL HEAD DETAIL

SCALE: 3" = 1'-0"



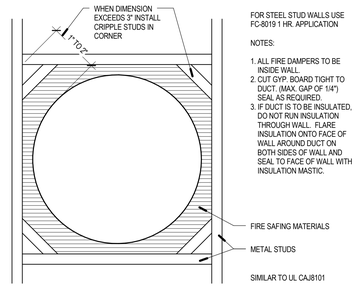

A PERPENDICULAR TO METAL DECK FLUTES




B PARALLEL TO METAL DECK FLUTES

E5 RATED MASONRY HEAD DETAILS

SCALE: 3" = 1'-0"



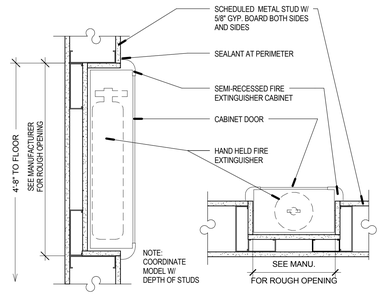

FOR STEEL STUD WALLS USE FC-8019 1 HR. APPLICATION

NOTES:

1. ALL FIRE DAMPERS TO BE INSIDE WALL.
2. CUT GYP. BOARD TIGHT TO DUCT. (MAX. GAP OF 1/4") SEAL AS REQUIRED.
3. IF DUCT IS TO BE INSULATED, DO NOT RUN INSULATION THROUGH WALL. FLARE INSULATION ONTO FACE OF WALL AROUND DUCT ON BOTH SIDES OF WALL AND SEAL TO FACE OF WALL WITH INSULATION MASTIC.

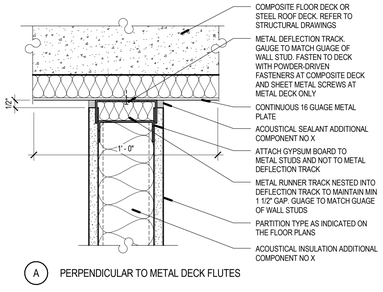
D2 TYP. DUCT OPENING IN RATED WALL

SCALE: NOT TO SCALE

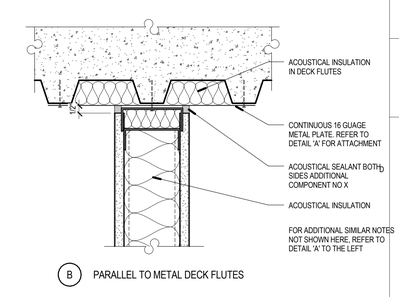



D3 FIRE EXTINGUISHER CABINET DETAIL

SCALE: 1 1/2" = 1'-0"




A PERPENDICULAR TO METAL DECK FLUTES




B PARALLEL TO METAL DECK FLUTES

D5 NON-RATED ACOUSTICAL PARTITION HEAD DETAILS

SCALE: 3" = 1'-0"




NOTES:

1. CUT GYP. BOARD TIGHT TO DUCT. (MAX. GAP OF 1/4") SEAL AS REQUIRED.
2. THROUGH CONCRETE WALLS USE W-J-1116.
3. THROUGH GYP. BOARD WALL USE W-L-1018.

SIMILAR TO UL CAJ8101

C2 CONDUIT PENETRATION DETAIL

SCALE: 3" = 1'-0"

PROVIDE BACKING PLATES AS INDICATED ON THE DRAWINGS OR WHERE NOT INDICATED, ACCORDING TO THE FOLLOWING SCHEDULE. REFER TO DETAILS ELSEWHERE IN THE SET OF DRAWINGS FOR THE SUPPORT OF WALL MOUNTED ITEMS IN EXCESS OF 200 POUNDS

TYPE 'A' BACKING PLATE




TYPE 'A' BACKING PLATES:

- AT DOOR STOPS AND BUMPER RAILS
- AT TOILET ACCESSORIES, MIRRORS, COAT HOOKS, ETC.
- AT ALL UPPER WALL HUNG CABINETS
- AT ALL BASE CABINETS
- AT ALL FULL HEIGHT CABINETS
- AT WALL MOUNTED ADJUSTABLE SHELVING
- AT ALL WALL MOUNTED HANDRAILS

TYPE 'B' BACKING PLATE




TYPE 'B' BACKING PLATES:

TYPE 'B' BACKING PLATE SHALL SUPPORT THE SAME ITEMS AS TYPE 'A' BACKING PLATE BUT USE WHERE APPEARANCE IS THE MAIN CONCERN SUCH AS LOBBIES AND OTHER HIGH DESIGN AREAS.

C3 TYPICAL BACKING PLATE SCHEDULE

SCALE: NOT TO SCALE



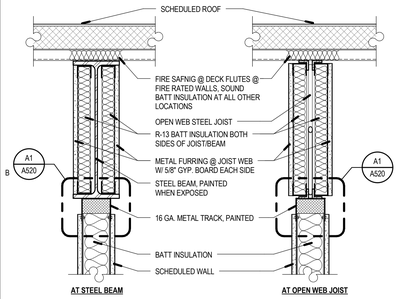

A PERPENDICULAR TO METAL DECK FLUTES




B PARALLEL TO METAL DECK FLUTES

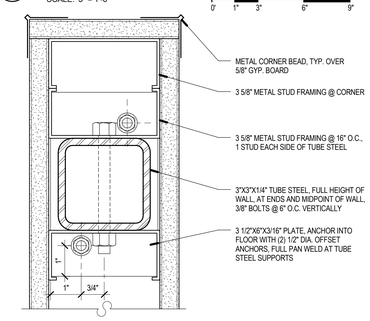
C5 NON-RATED PARTITION HEAD DETAILS

SCALE: 3" = 1'-0"



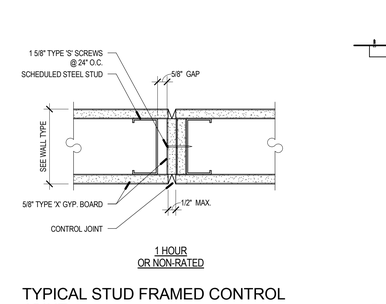

B1 SLIP JOINT AT BEAM / JOIST

SCALE: 1 1/2" = 1'-0"




B2 LOW WALL REINFORCEMENT

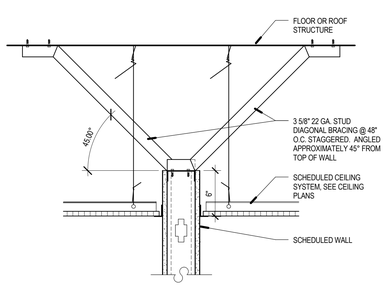
SCALE: 6" = 1'-0"




1 HOUR OR NON-RATED

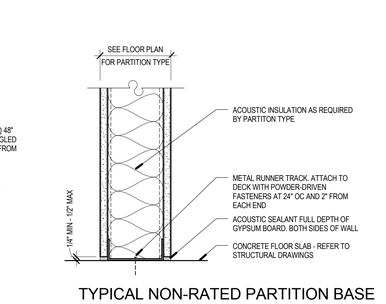
B3 TYPICAL STUD FRAMED CONTROL JOINT

SCALE: 3" = 1'-0"



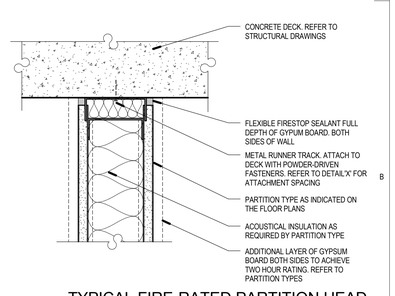

B4 TYP. WALL BRACING DETAIL

SCALE: 1 1/2" = 1'-0"



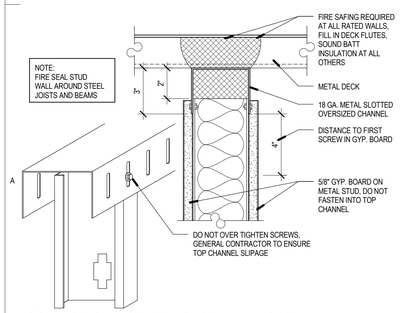

B5 TYPICAL NON-RATED PARTITION BASE DETAIL

SCALE: 3" = 1'-0"



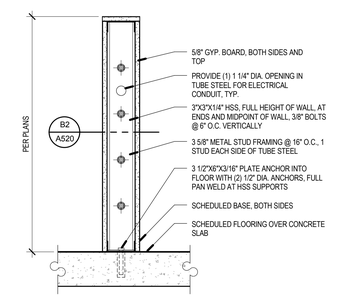

B6 TYPICAL FIRE-RATED PARTITION HEAD DETAIL

SCALE: 3" = 1'-0"



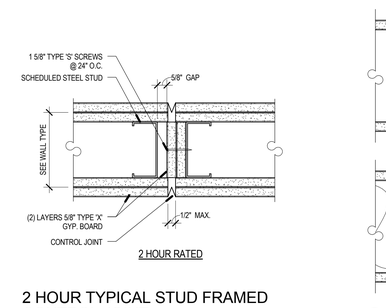

A1 PARTITION SLIP JOINT TYPICAL

SCALE: 3" = 1'-0"




A2 LOW WALL SECTION

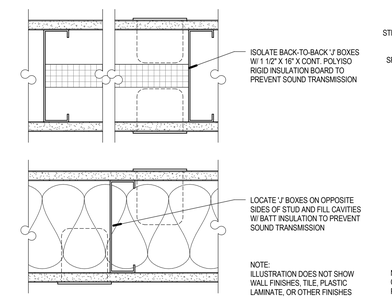
SCALE: 1 1/2" = 1'-0"




2 HOUR RATED

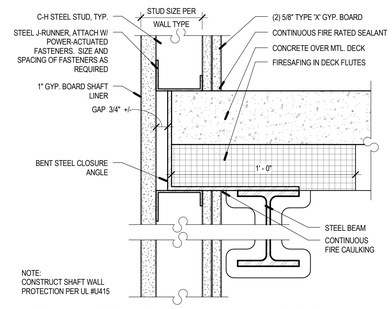
A3 2 HOUR TYPICAL STUD FRAMED CONTROL JOINT

SCALE: 3" = 1'-0"



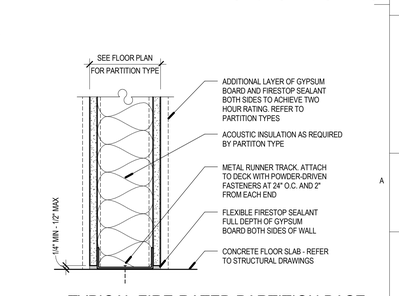

A4 TYPICAL ELECTRICAL DEVICE DETAIL

SCALE: 3" = 1'-0"




A5 TYPICAL SHAFT WALL HEAD/BASE

SCALE: 3" = 1'-0"




A6 TYPICAL FIRE-RATED PARTITION BASE DETAIL

SCALE: 3" = 1'-0"

10/3/2012 12:52:58 PM

VCBO ARCHITECTURE
524 SOUTH 600 EAST
SALT LAKE CITY, UTAH 84102
Phone: (801) 575-8800
Fax: (801) 531-9850
WWW: www.vcbo.com

# Student Activity Center

Weber State University
DFCM #12031810
3750 Harrison Blvd. Ogden, UT 84408
Stromberg Addition - BID SET

| Rev # | Date | Description |
|---|---|---|

Job # 12475
CAD File
Drawn Author Checked Checker
Date 10.03.2012
Owner # DFCM #12031810
Ins. #

TYPICAL INTERIOR FRAMING DETAILS

A520

CMU WALL CORNER
DETAIL TO BE PROVIDED

CONCRETE WALL
CORNER DETAIL TO BE
PROVIDED

E5 CMU WALL CORNER PLAN DETAIL @ GRID E6

SCALE: 1 1/2" = 1'-0"

0' 1/2" 1" 1 1/2"

E6 CONCRETE WALL CORNER PLAN DETAIL @ GRID E6

SCALE: 1 1/2" = 1'-0"

0' 1/2" 1" 1 1/2"

DETAIL TO BE PROVIDED

DETAIL TO BE PROVIDED

D5 CMU WALL CORNER LEVEL 02 NORTH

SCALE: 1 1/2" = 1'-0"

0' 1/2" 1" 1 1/2"

D6 CMU WALL CORNER LEVEL 02 SOUTH

SCALE: 1 1/2" = 1'-0"

0' 1/2" 1" 1 1/2"

VCBO
ARCHITECTURE
VALENTINER
CRANE
BRUNJES
ONYON

LICENSED ARCHITECT
NO. 13392
BRENT R. TIPPETS
10-2-12
STATE OF UTAH

VCBO ARCHITECTURE
524 SOUTH 600 EAST
SALT LAKE CITY, UT 84102
Phone: (801) 575-8800
Fax: (801) 531-9850
WWW: www.vcbo.com

DFCM CODE COMPLIANCE STAMP

# Student Activity Center
## Stromberg Addition - BID SET
Weber State University
3750 Harrison Blvd. Ogden, UT 84408

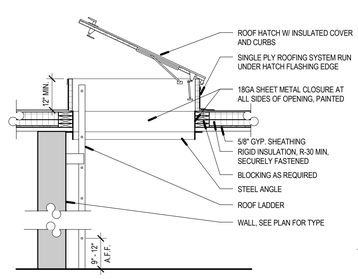
| Rev # | Date | Description |
|---|---|---|

Job # 12475
CAD File
Drawn Author Checked Checker
Date 10.03.2012
Owner # DFCM #12031810

INTERIOR DETAILS

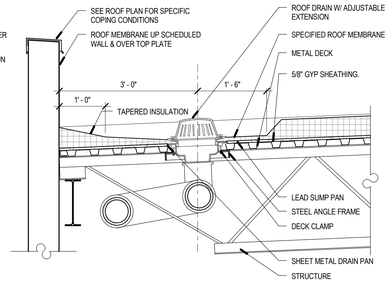
A521

10/3/2012 12:53:01 PM



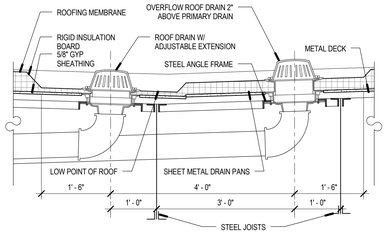

## D3 TYPICAL ROOF HATCH DETAIL

SCALE: 1/2" = 1'-0"



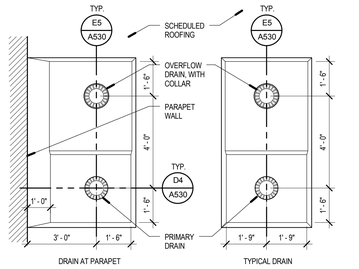

## D4 ROOF DRAIN SECTION B-B

SCALE: 3/4" = 1'-0"



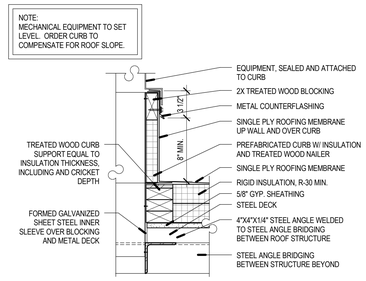

## E5 ROOF DRAIN SECTION A-A

SCALE: 3/4" = 1'-0"



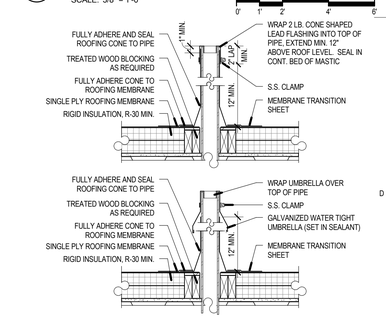

## E6 TYPICAL ROOF DRAINS

SCALE: 3/8" = 1'-0"



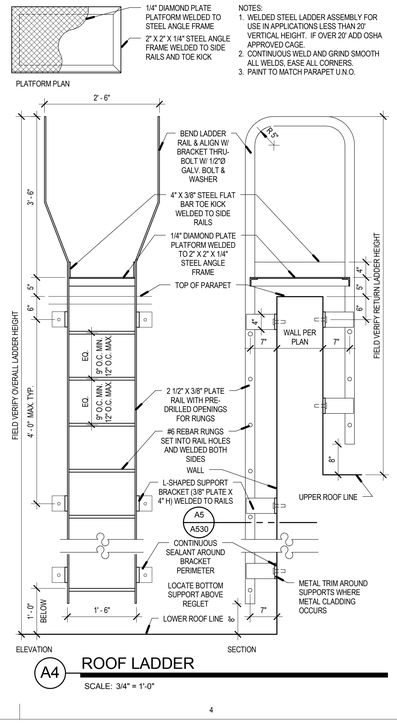

## D5 ROOF CURB DETAIL

SCALE: 1 1/2" = 1'-0"



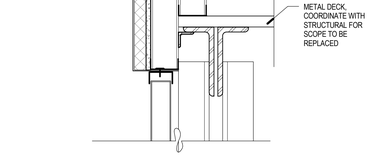

## D6 ROOF PENETRATION DETAILS

SCALE: 1" = 1'-0"



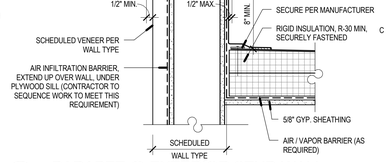

## A4 ROOF LADDER

SCALE: 3/4" = 1'-0"



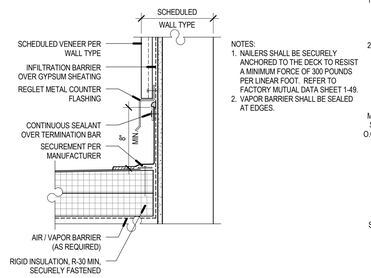

## C4 FACIA DETAIL (HEAD)

SCALE: 1 1/2" = 1'-0"



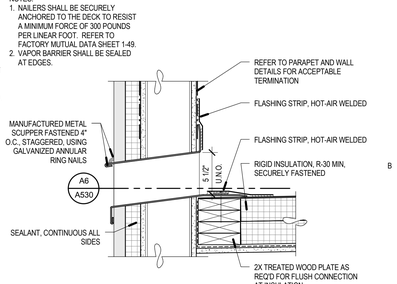

## C6 PARAPET @ EXTERIOR STUD WALL

SCALE: 1 1/2" = 1'-0"



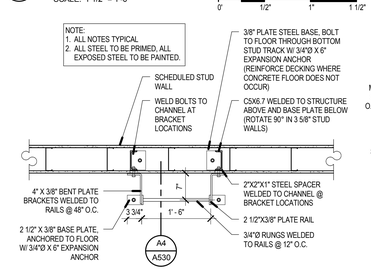

## B5 ROOF MEMBRANE @ STUD WALL

SCALE: 1 1/2" = 1'-0"



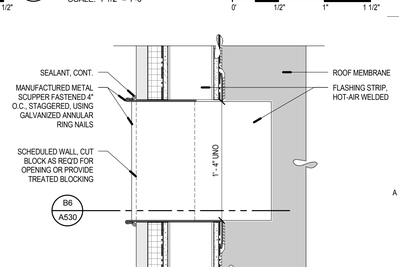

## B6 SCUPPER PENETRATION DETAIL

SCALE: 1 1/2" = 1'-0"




## A5 TYPICAL ROOF LADDER DETAILS

SCALE: 3/4" = 1'-0"




## A6 TOP OF SCUPPER ASSEMBLY

SCALE: 1 1/2" = 1'-0"

VCBO ARCHITECTURE
524 SOUTH 600 EAST
SALT LAKE CITY, UT 84102
Phone: (801) 575-8800
Fax: (801) 531-9850
www: www.vcbo.com

DFCM CODE COMPLIANCE STAMP

# Student Activity Center
## Stromberg Addition - BID SET
Weber State University
3750 Harrison Blvd. Ogden, UT 84408

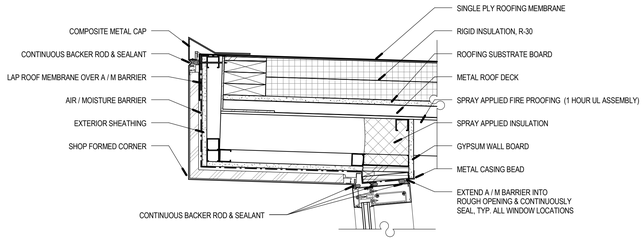
| Rev # | Date | Description |
|---|---|---|

Job # 12475
CAD File
Drawn Author Checked Checker
Date 10.03.2012
Owner # DFCM #12031810

ROOF DETAILS

A530

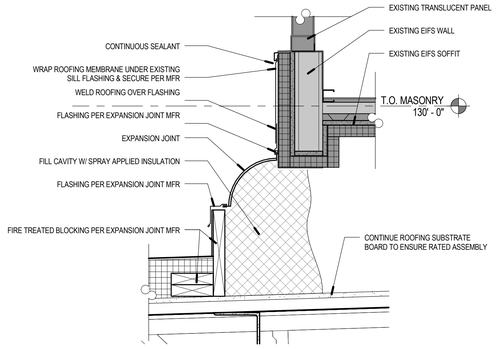
10/3/2012 12:53:06 PM




E3 GRAVEL STOP @ CURTAIN WALL

SCALE: 1 1/2" = 1'-0"

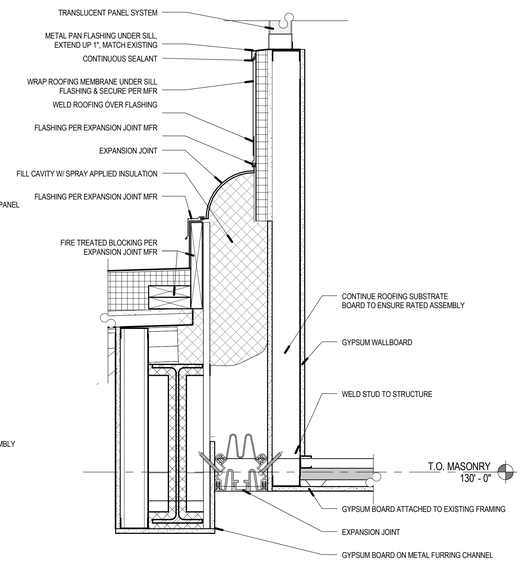
0' 1/2" 1" 1 1/2"




C2 EXPANSION JOINT ROOF @ EXST SOFFIT

SCALE: 1 1/2" = 1'-0"

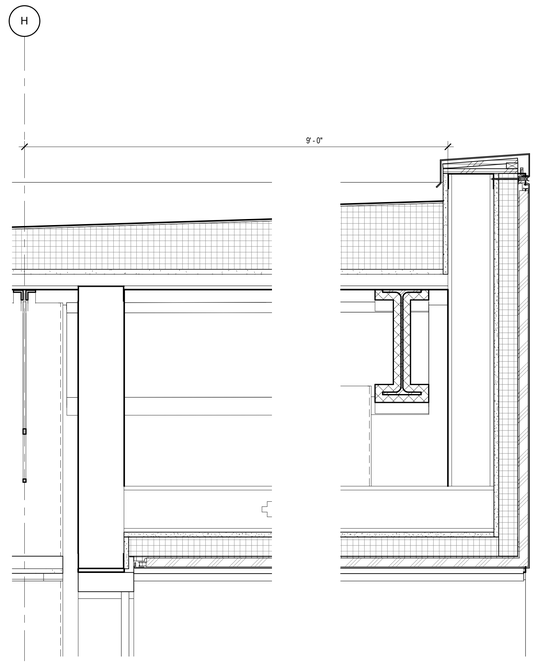
0' 1/2" 1" 1 1/2"




C3 EXPANSION JOINT ROOF @ TRANSLUCENT PANEL

SCALE: 1 1/2" = 1'-0"

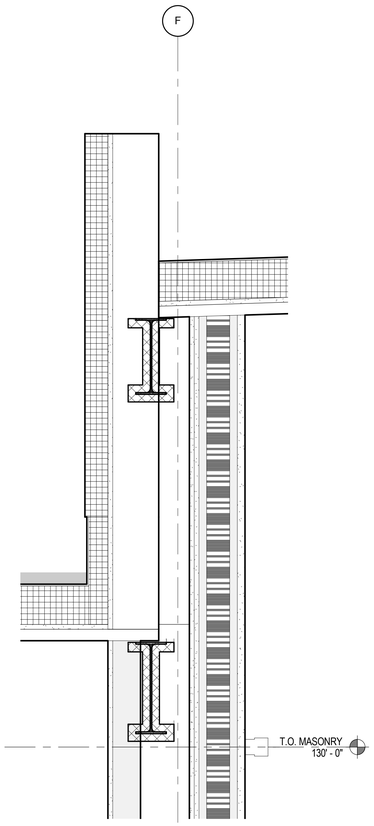
0' 1/2" 1" 1 1/2"




C5 SOFFIT @ COMPOSITE METAL BROW

SCALE: 1 1/2" = 1'-0"

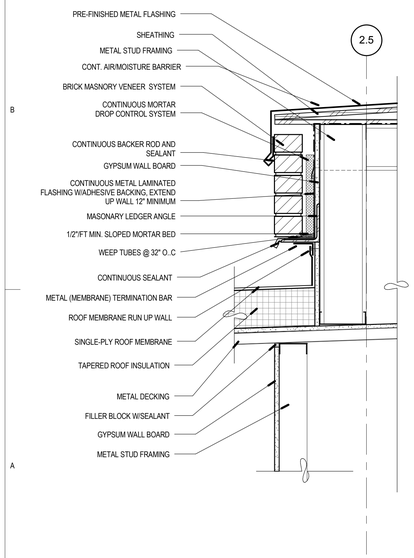
0' 1/2" 1" 1 1/2"




C6 PARAPET @ ELEVATOR

SCALE: 1 1/2" = 1'-0"

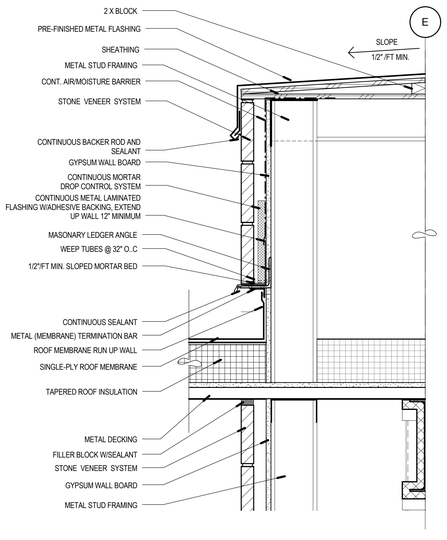
0' 1/2" 1" 1 1/2"




A1 MASONRY LEDGER @ ROOF

SCALE: 1 1/2" = 1'-0"

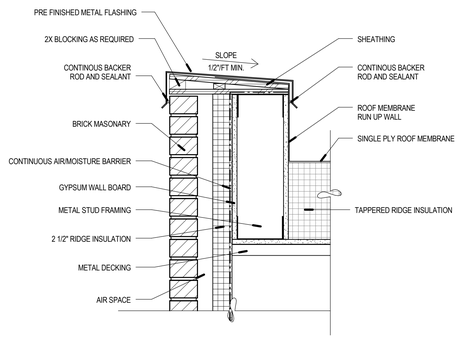
0' 1/2" 1" 1 1/2"




A3 CAP @ STONE WALL

SCALE: 1 1/2" = 1'-0"

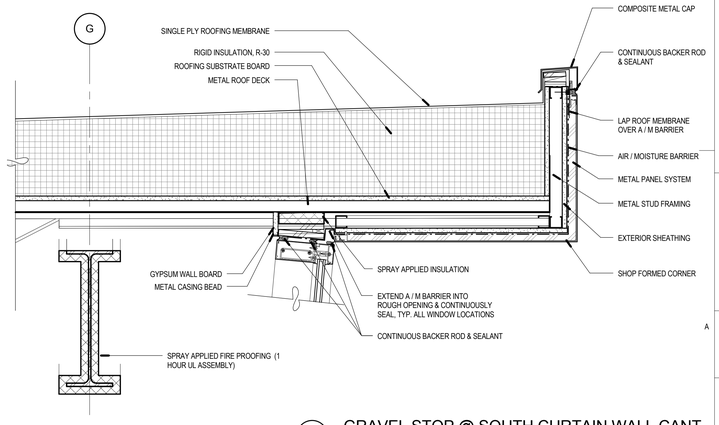
0' 1/2" 1" 1 1/2"




A4 GRAVEL STOP @ NORTH STAIR

SCALE: 1 1/2" = 1'-0"

0' 1/2" 1" 1 1/2"




A6 GRAVEL STOP @ SOUTH CURTAIN WALL CANT

SCALE: 1 1/2" = 1'-0"

0' 1/2" 1" 1 1/2"

VCBO
ARCHITECTURE
VALENTINER
CRANE
BRUNJES
ONYON

VCBO ARCHITECTURE
524 SOUTH 600 EAST
SALT LAKE CITY, UT 84102
Phone: (801) 575-8800
Fax: (801) 531-9850
WWW: www.vcbo.com

LICENSED ARCHITECT No. 339212 BRENT R. TIPPETS 10-2-12 STATE OF UTAH

DFCM CODE COMPLIANCE STAMP

# Student Activity Center
## Stromberg Addition - BID SET
Weber State University
3750 Harrison Blvd. Ogden, UT 84408

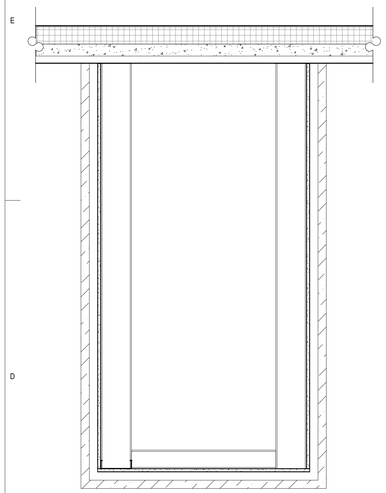
| Rev # | Date | Description |
|---|---|---|

Job # 12475
CAD File
Drawn Author Checked Checker
Date 10.03.2012
Owner # DFCM #12031810

ROOF DETAILS

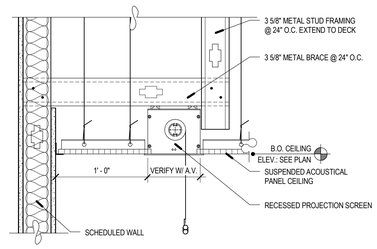
A531

10/3/2012 12:53:15 PM



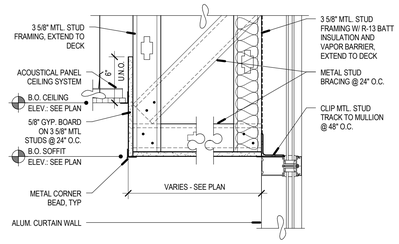
## D1 STONE AT SOFFIT

SCALE: 1" = 1'-0"



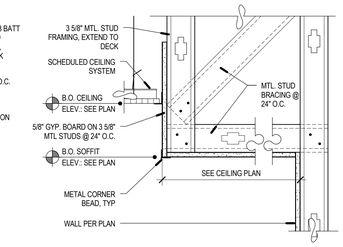

## E2 TYPICAL PROJECTION SCREEN DETAIL

SCALE: 1 1/2" = 1'-0"



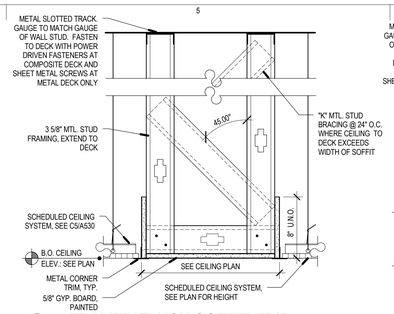

## E3 TYPICAL SOFFIT/ CURTAIN WALL DETAIL

SCALE: 1 1/2" = 1'-0"



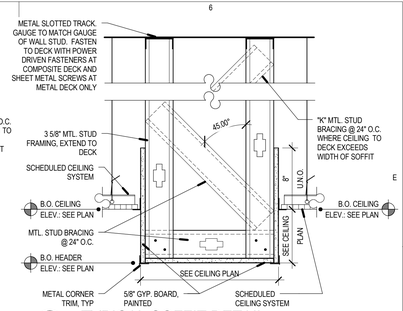

## E4 TYPICAL SOFFIT DETAIL AT WALL

SCALE: 1 1/2" = 1'-0"



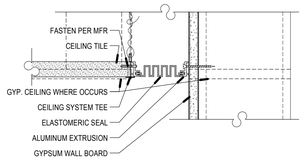

## E5 FRAMED FLUSH SOFFIT, TYP.

SCALE: 1 1/2" = 1'-0"



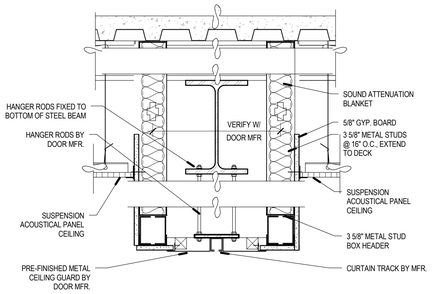

## E6 TYPICAL SOFFIT DETAIL

SCALE: 1 1/2" = 1'-0"



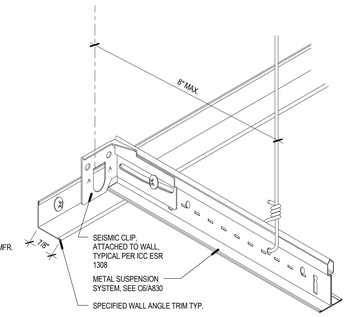

## D2 EXPANSION @ GYP. BD. CLNG

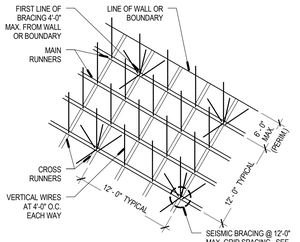
SCALE: 3" = 1'-0"




## D4 CURTAIN HEAD

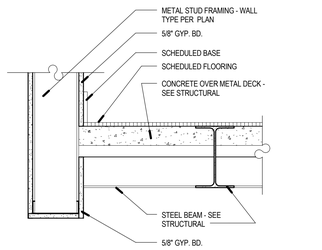
SCALE: 1 1/2" = 1'-0"



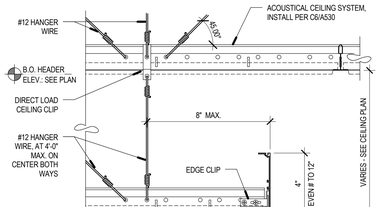

## E1 SEISMIC BRACING @ 12'-0" MAX. GRID SPACING. SEE DETAIL BELOW.

SCALE: NOT TO SCALE



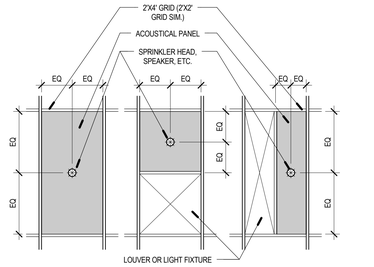

## C1 HEADER DETAIL

SCALE: 1 1/2" = 1'-0"



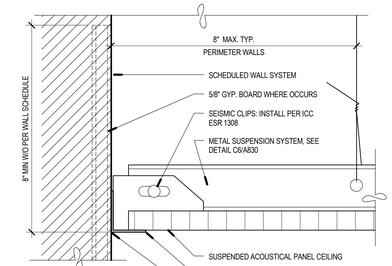

## C3 TYPICAL CLOUD DETAIL

SCALE: 3" = 1'-0"




## C4 TYP. CEILING TILE PENETRATION

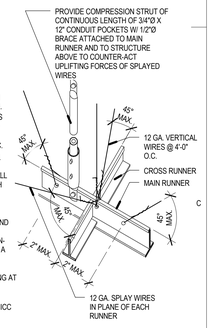
SCALE: 1/2" = 1'-0"




## C5 TYP. SUSPENDED CEILING DETAIL

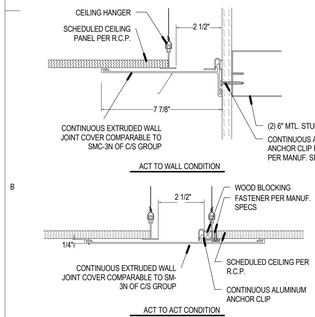
SCALE: 6" = 1'-0"

NOTES:
1. ALL SPLAY WIRES TO BE IN LINE WITH ATTACHED COMPONENT
2. ALL SPLAY WIRES TO BE TAUT AND TIED BOTH ENDS WITH MINIMUM OF 3 TURNS IN 1" OF RUN.
3. AREAS SMALLER THAN 144 SQ. FT. WITH WALLS ON 4 SIDES EXTENDING TO STRUCTURE NEED NOT BE BRACED.
4. COMPRESSIVE STRUTS REQUIRED @ 12'-0" O.C.
5. ALL CEILING MOUNTED LIGHT FIXTURES SHALL BE ATTACHED TO THE SUSPENDED CEILING GRID. IN ADDITION 12 GA. HANGER WIRES SHALL BE ATTACHED TO THE GRID WITHIN 3" OF EACH CORNER OF THE LIGHT HOUSING AND TO THE STRUCTURE ABOVE (THESE WIRES MAY BE SLACK.)
6. WIRES SHALL NOT ATTACH TO OR BEND AROUND INTERFERING MATERIAL OR EQUIPMENT NOR SHALL THEY BE CLOSER THAN 6" FROM ANY UN-BRACED HORIZONTAL PIPING OR DUCTWORK. A TRAPEZE OR SIMILAR DEVICE SHALL BE USED WHERE OBSTRUCTIONS OCCUR.
7. PROVIDE 7/8" WIDE PERIMETER WALL MOULDING AT ALL WALLS.
8. ALL SUSPENDED CEILING TO MEET THE REQUIREMENTS OF THE IBC SECTION 2506.1 & ICC REPORT ESR-1308



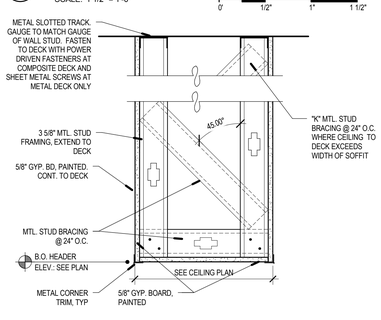

## C6 CLG. SUSPENSION & SEISMIC BRACING

SCALE: NOT TO SCALE



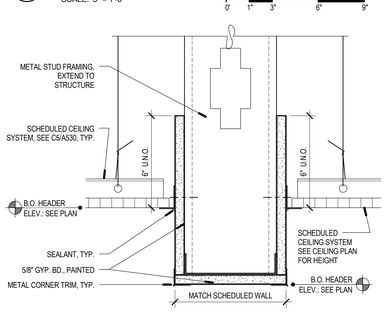

## B1 EXPANSION @ ACT

SCALE: 3" = 1'-0"



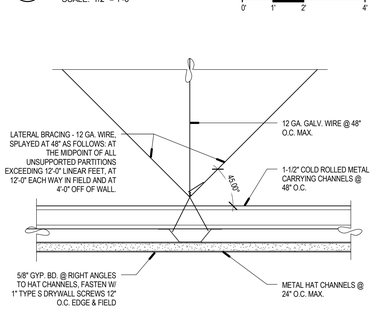

## B2 TYPICAL SOFFIT DETAIL

SCALE: 1 1/2" = 1'-0"



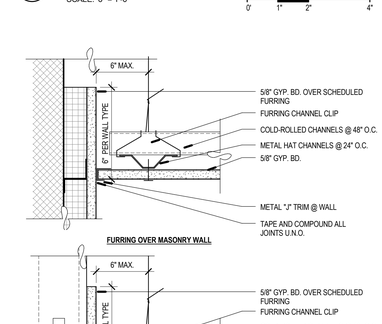

## B3 TYP. METAL STUD HEADER

SCALE: 3" = 1'-0"




## B4 TYP. SUSPENDED GYP. CEILING DETAIL

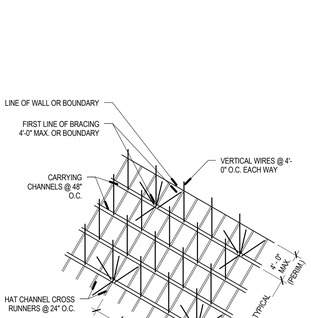
SCALE: 3" = 1'-0"




NOTE:
1. SEE A6/A830 FOR SEISMIC BRACING INFORMATION
2. INSTALL GYPSUM TO USG STANDARDS

## A5 SLIP JOINT DETAILS

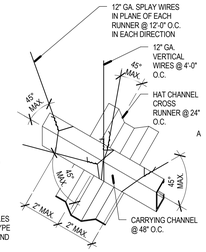
SCALE: 3" = 1'-0"




## C6 CLG. SUSPENSION & SEISMIC BRACING

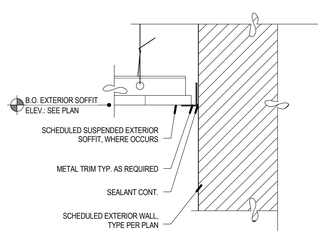
SCALE: NOT TO SCALE

NOTES:
1. ALL SPLAY WIRES TO BE IN LINE WITH ATTACHED COMPONENT
2. ALL SPLAY WIRES TO BE TAUT AND TIED BOTH ENDS WITH MINIMUM OF 3 TURNS IN 1" OF RUN.
3. AREAS SMALLER THAN 1,000 SQ. FT. WITH WALLS ON 4 SIDES EXTENDING TO STRUCTURE NEED NOT BE BRACED.
4. ALL CEILING MOUNTED LIGHT FIXTURES SHALL BE ATTACHED TO THE SUSPENDED CEILING GRID. IN ADDITION 12 GA. HANGER WIRES SHALL BE ATTACHED TO THE GRID WITHIN 3" OF EACH CORNER OF THE LIGHT HOUSING AND TO THE STRUCTURE ABOVE (THESE WIRES MAY BE SLACK.)
5. WIRES SHALL NOT ATTACH TO OR BEND AROUND INTERFERING MATERIAL OR EQUIPMENT NOR SHALL THEY BE CLOSER THAN 6" FROM ANY UN-BRACED HORIZONTAL PIPING OR DUCTWORK. A TRAPEZE OR SIMILAR DEVICE SHALL BE USED WHERE OBSTRUCTIONS OCCUR.
6. GYPSUM BOARD TO BE INSTALLED @ RIGHT ANGLES TO 7/8" HAT CHANNEL RUNNERS. FASTEN W/ 1" TYPE 'S' DRYWALL SCREWS @ 12" O.C. TYP. @ EDGES AND IN FIELD AS PER USG STANDARDS.



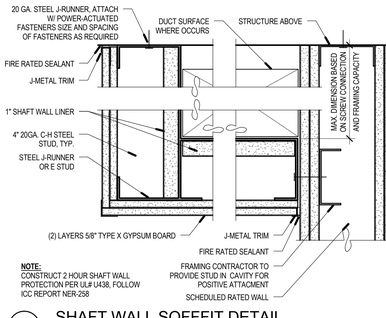

## A6 TYP. SUSPENDED GYP. BRACING DET.

SCALE: NOT TO SCALE




## A1 EXTERIOR SOFFIT DETAIL

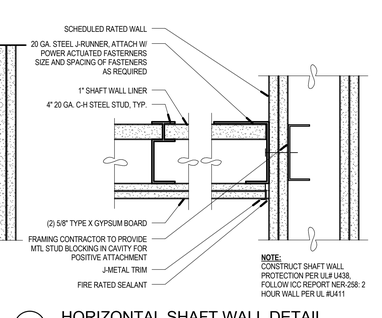
SCALE: 3" = 1'-0"




NOTE:
CONSTRUCT 2 HOUR SHAFT WALL PROTECTION PER UL# U438, FOLLOW ICC REPORT NER-258

## A2 SHAFT WALL SOFFFIT DETAIL

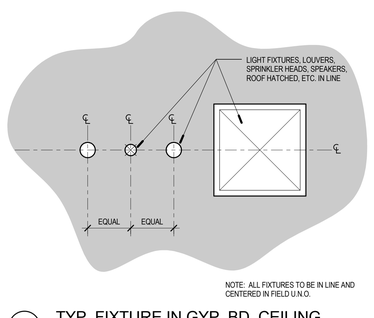
SCALE: 3" = 1'-0"




NOTE:
CONSTRUCT SHAFT WALL PROTECTION PER UL# U438, FOLLOW ICC REPORT NER-258: 2 HOUR WALL PER UL #U411

## A3 HORIZONTAL SHAFT WALL DETAIL

SCALE: 3" = 1'-0"




NOTE: ALL FIXTURES TO BE IN LINE AND CENTERED IN FIELD U.N.O.

## A4 TYP. FIXTURE IN GYP. BD. CEILING

SCALE: 3/4" = 1'-0"


VCBO ARCHITECTURE
524 SOUTH 600 EAST
SALT LAKE CITY, UT 84102
Phone: (801) 575-8800
Fax: (801) 531-9850
www: www.vcbo.com


REGISTERED ARCHITECT 13392 BRENT R. TIPPETS 10-2-12 STATE OF UTAH

DFCM CODE COMPLIANCE STAMP

# Student Activity Center
## Stromberg Addition - BID SET
Weber State University
3750 Harrison Blvd. Ogden, UT 84408

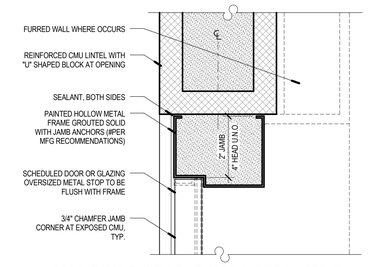
| Rev # | Date | Description |
|---|---|---|

Job # 12475
CAD File
Drawn Author Checked Checker
Date 10.03.2012
Owner # DFCM #12031810

CEILING DETAILS

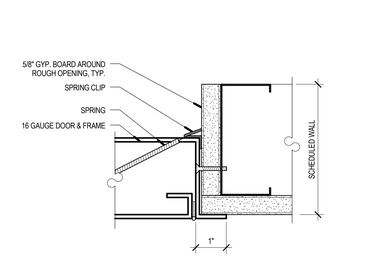
A540

10/3/2012 12:53:21 PM



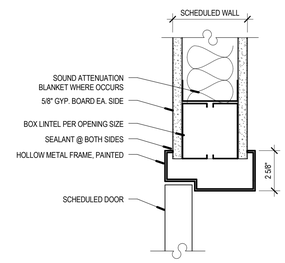

## E4 H.M. DOOR HEAD @ CMU WALL, JAMB SIM.

SCALE: 3" = 1'-0"



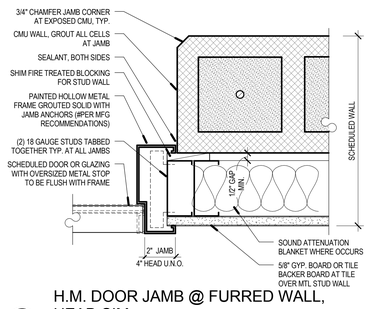

## E5 ACCESS DOOR DTL.

SCALE: 6" = 1'-0"



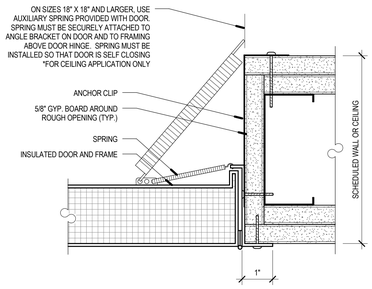

## E6 H.M. DOOR HEAD DTL.

SCALE: 3" = 1'-0"



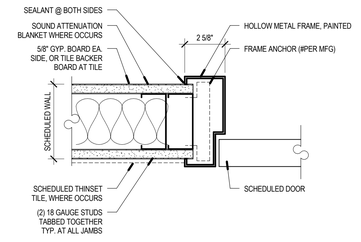

## D4 H.M. DOOR JAMB @ FURRED WALL, HEAD SIM.

SCALE: 3" = 1'-0"



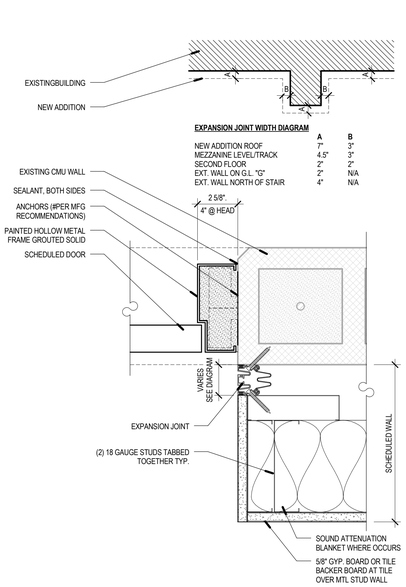

## D5 RATED ACCESS DOOR DETAIL

SCALE: 6" = 1'-0"



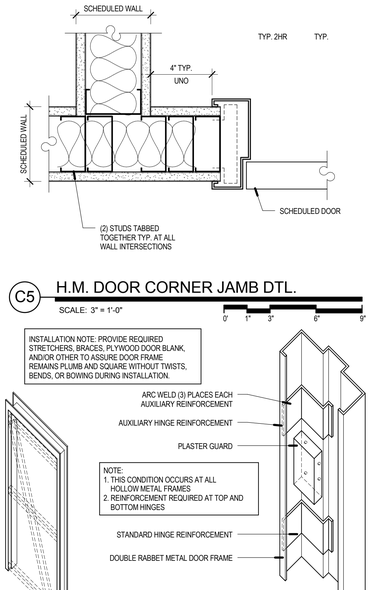

## D6 H.M. DOOR JAMB DTL.

SCALE: 3" = 1'-0"



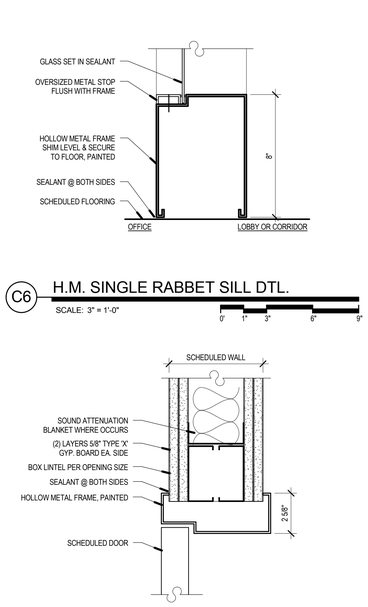

## B4 H.M. DOOR JAMB & EXP. JOINT @ FURRED WALL, HEAD SIM.

SCALE: 3" = 1'-0"



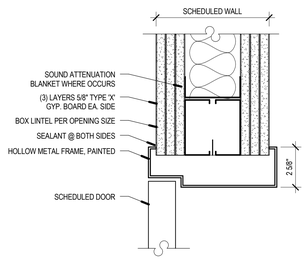

## C5 H.M. DOOR CORNER JAMB DTL.

SCALE: 3" = 1'-0"




## C6 H.M. SINGLE RABBET SILL DTL.

SCALE: 3" = 1'-0"




## B2 H.M. DOOR HEAD DTL. @ 3 HR WALL (UL#914)

SCALE: 3" = 1'-0"



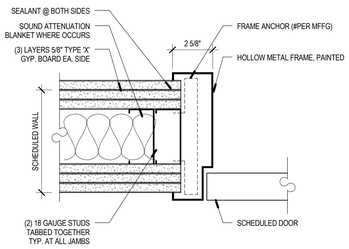

## B5 TYPICAL H.M. FRAME DTL.

SCALE: NOT TO SCALE



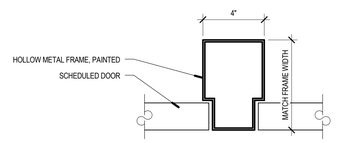

## B6 H.M. DOOR HEAD DTL. @ 2 HR WALL (UL#419)

SCALE: 3" = 1'-0"



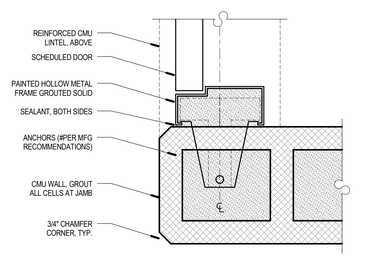

## A2 H.M. DOOR JAMB DTL. @ 3 HR WALL (UL#914)

SCALE: 3" = 1'-0"



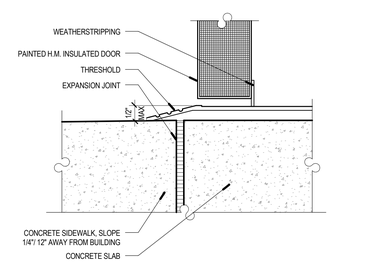

## A3 H.M. DOOR DOUBLE JAMB DETAIL 6" STUD WALL

SCALE: 3" = 1'-0"



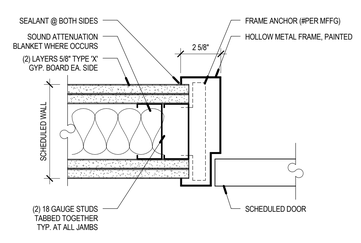

## A4 H.M. DOOR JAMB @ CMU WALL

SCALE: 3" = 1'-0"




## A5 EXTERIOR H.M. DOOR THRESHOLD DTL.

SCALE: 6" = 1'-0"




## A6 H.M. DOOR JAMB DTL. @ 2 HR WALL (UL#419)

SCALE: 3" = 1'-0"

VCBO ARCHITECTURE
524 SOUTH 600 EAST
SALT LAKE CITY, UT 84102
Phone: (801) 575-8800
Fax: (801) 531-9850
www: www.vcbo.com

DFCM CODE COMPLIANCE STAMP

# Student Activity Center
Stromberg Addition - BID SET
Weber State University
3750 Harrison Blvd. Ogden, UT 84408

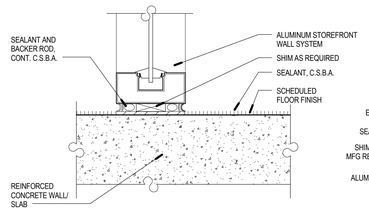
| Rev # | Date | Description |
|---|---|---|

Job # 12475
CAD File
Drawn Author Checked Checker
Date 10.03.2012
Owner # DFCM #12031810

HOLLOW METAL DOOR AND WINDOW, COILING DOOR DETAILS

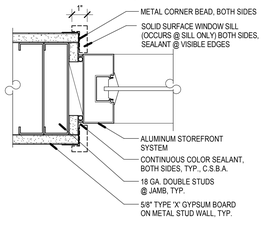
A560

10/3/2012 12:53:26 PM



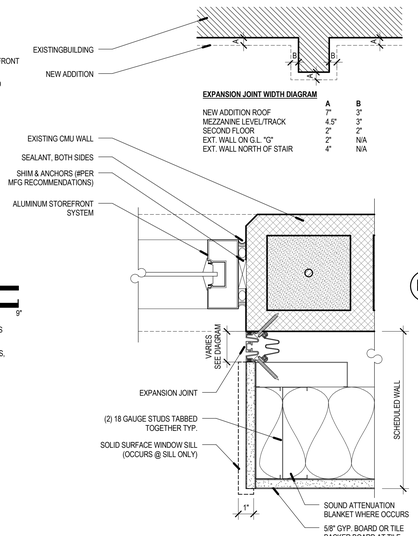

E1 INTERIOR STOREFRONT SILL

SCALE: 3" = 1'-0"



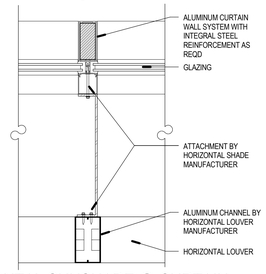

D1 INTERIOR STOREFRONT JAMB DETAIL 6" STUD WALL

SCALE: 3" = 1'-0"



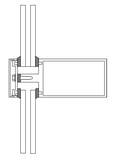

D2 ALUMN. WINDOW JAMB & EXP. JOINT @ FURRED WALL, HEAD SIM.

SCALE: 3" = 1'-0"



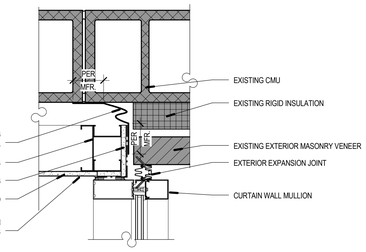

E3 HORIZONTAL SUNSHADE @ CURTAIN WALL

SCALE: 1 1/2" = 1'-0"



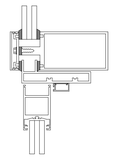
E4 VERTICAL FIN MULLION CONNECTION

SCALE: 3" = 1'-0"



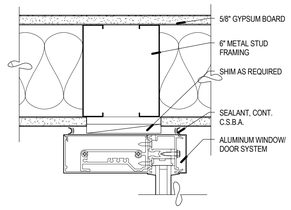

E5 EXPANSION JOINT @ CURTAIN WALL

SCALE: 1 1/2" = 1'-0"



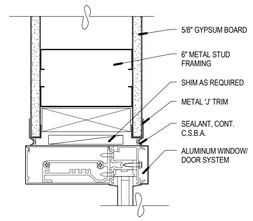
D4 CURTAIN WALL DOOR HEAD

SCALE: 3" = 1'-0"



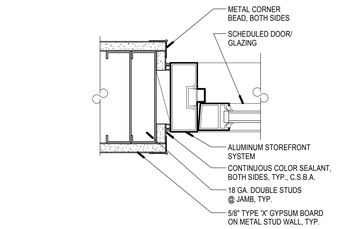

D5 CURTAINWALL AT INTERIOR WALL

SCALE: 3" = 1'-0"




D6 CURTAINWALL DETAIL

SCALE: 3" = 1'-0"



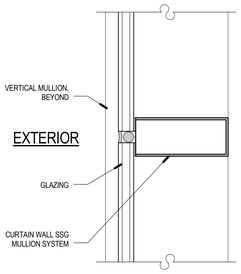

C1 INTERIOR STOREFRONT DOOR JAMB DETAIL 6" STUD WALL

SCALE: 3" = 1'-0"

EXTERIOR STOREFRONT HEAD/JAMB DETAIL TO BE PROVIDED

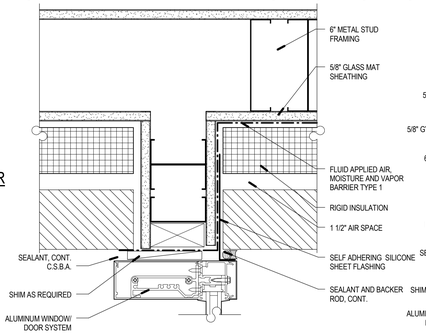
C2 EXTERIOR STOREFRONT HEAD-JAMB DETAIL 6" STUD WALL

SCALE: 3" = 1'-0"



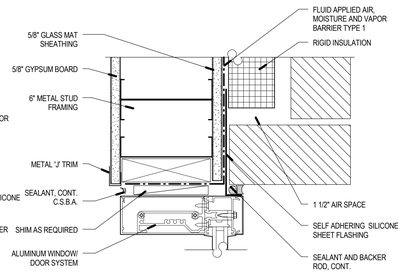

C4 SSG MULLION - HORIZONTAL MULLION

SCALE: 3" = 1'-0"



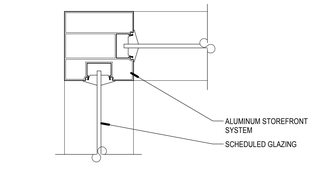

C5 CURTAIN WALL AT BRICK

SCALE: 3" = 1'-0"




C6 CURTAIN WALL HEAD & JAMB AT BRICK

SCALE: 3" = 1'-0"



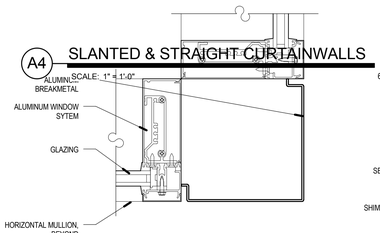

B1 INTERIOR STOREFRONT CORNER DETAIL

SCALE: 3" = 1'-0"

EXTERIOR STOREFRONT SILL DETAIL TO BE PROVIDED

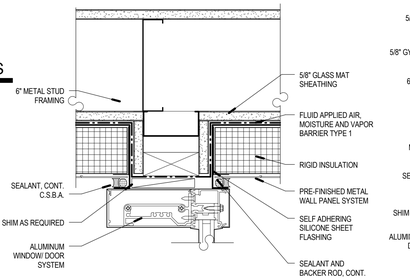
B2 EXTERIOR STOREFRONT SILL DETAIL 6" STUD WALL

SCALE: 3" = 1'-0"



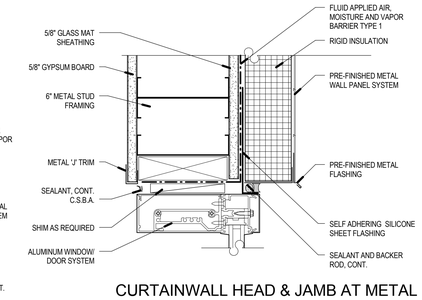

A4 SLANTED & STRAIGHT CURTAINWALLS

SCALE: 1" = 1'-0"



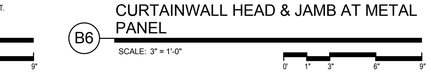

B4 CURTAINWALL CORNER

SCALE: 3" = 1'-0"



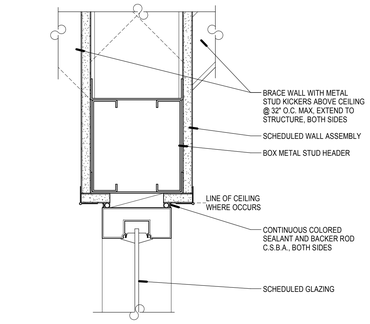

B5 CURTAIN WALL AT METAL PANEL

SCALE: 3" = 1'-0"



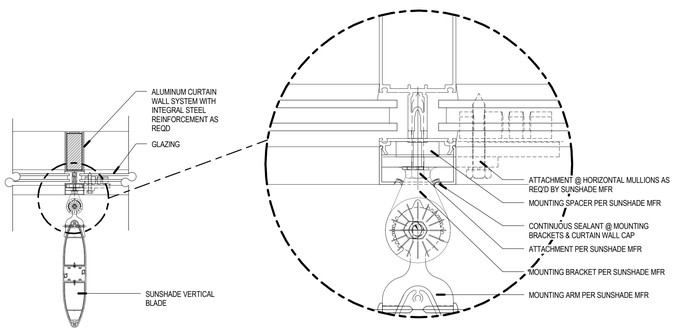
B6 CURTAINWALL HEAD & JAMB AT METAL PANEL

SCALE: 3" = 1'-0"




A1 INTERIOR STOREFRONT HEAD DETAIL 6" STUD WALL

SCALE: 3" = 1'-0"

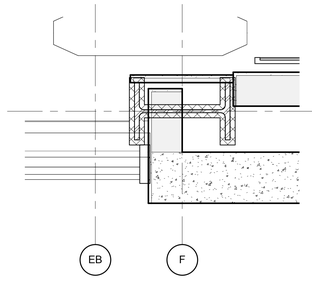



A2 VERTICAL SUNSHADE @ CURTAIN WALL

SCALE: 1 1/2" = 1'-0"

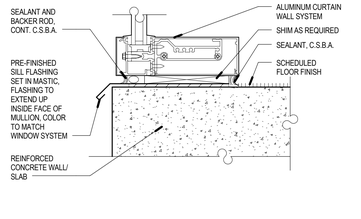
A3 VERTICAL SUNSHADE BLOWUP

SCALE: 6" = 1'-0"




A5 THRESHOLD

SCALE: 6" = 1'-0"




A6 CURTAINWALL SILL

SCALE: 3" = 1'-0"

10/3/2012 12:53:33 PM

1 2 3 4 5 6

VCBO
ARCHITECTURE
VALENTINER
CRANE
BRUNJES
ONYON

LICENSED ARCHITECT
No. 13392
BRENT R. TIPPETS
10-2-12
STATE OF UTAH

VCBO ARCHITECTURE
524 SOUTH 600 EAST
SALT LAKE CITY, UT 84102
Phone: (801) 575-8800
Fax: (801) 531-9850
WWW: www.vcbo.com

DFCM CODE COMPLIANCE STAMP

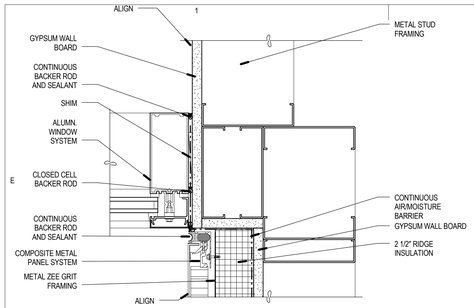
# Student Activity Center
## Stromberg Addition - BID SET
Weber State University
3750 Harrison Blvd. Ogden, UT 84408

| Rev # | Date | Description |
|---|---|---|

Job # 12475
CAD File
Drawn Author Checked Checker
Date 10.03.2012
Owner # DFCM #12031810

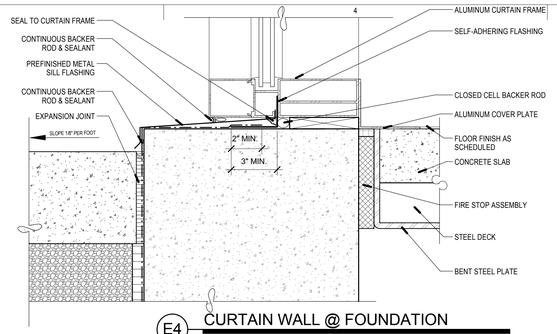
GLAZING DETAILS

A561



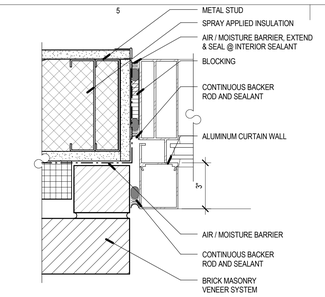

E1 JAMB CURTAINWALL DETAIL

SCALE: 3" = 1'-0"



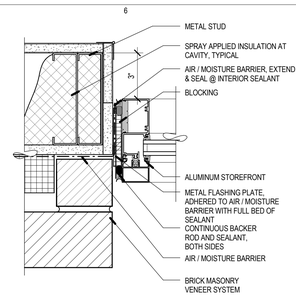

E4 CURTAIN WALL @ FOUNDATION

SCALE: 3" = 1'-0"



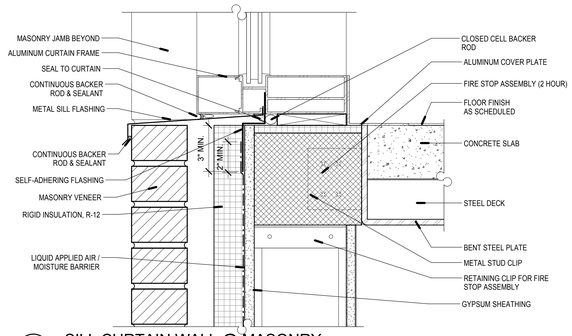

E5 JAMB CURTAIN WALL @ MASONRY

SCALE: 3" = 1'-0"



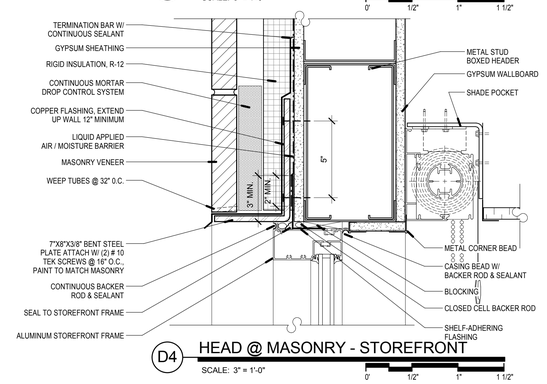

E6 JAMB STOREFRONT @ MASONRY

SCALE: 3" = 1'-0"



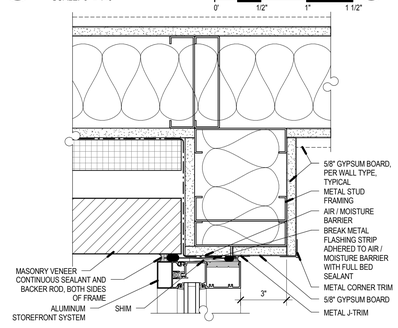

D2 SILL CURTAIN WALL @ MASONRY

SCALE: 3" = 1'-0"



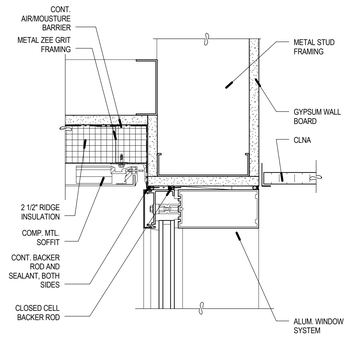

D4 HEAD @ MASONRY - STOREFRONT

SCALE: 3" = 1'-0"



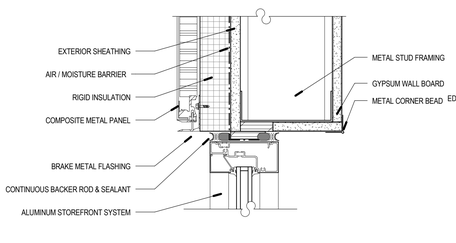

D5 ALUM JAM PERP TO MASONRY VEN.

SCALE: 3" = 1'-0"



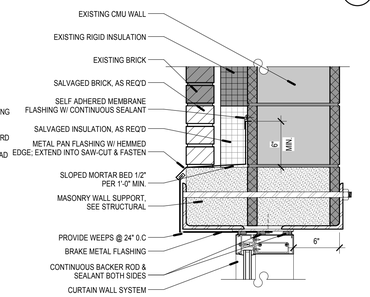

C1 HEAD DETAIL COMPOSTIE SOFFIT

SCALE: 3" = 1'-0"



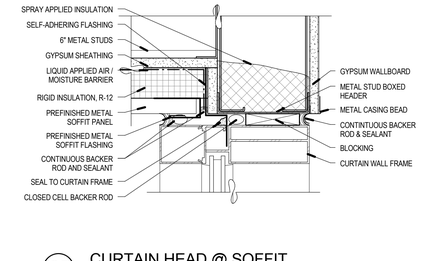

C2 HEAD SF @ COMPOSITE MTL. PNL.

SCALE: 3" = 1'-0"



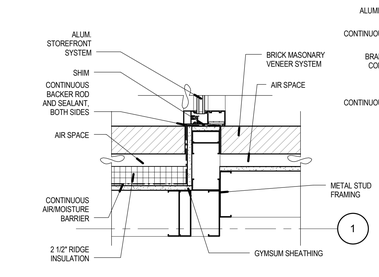

C3 HEAD CW @ EXISTING

SCALE: 1 1/2" = 1'-0"



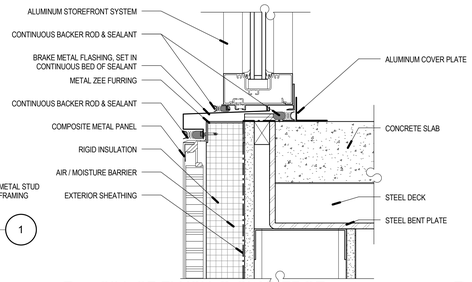

C4 CURTAINWALL HEAD @ MASONRY VENEER

SCALE: 3" = 1'-0"



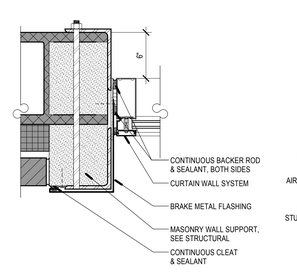

B1 STOREFRONT VENEER JAMB

SCALE: 1 1/2" = 1'-0"



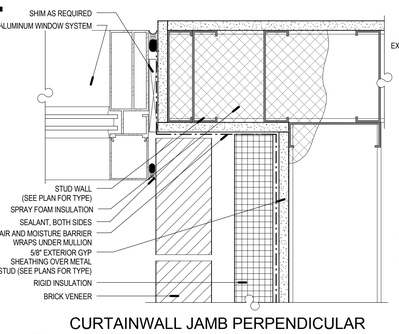

B2 SILL SF FLUSH @ SLAB EDGE

SCALE: 3" = 1'-0"



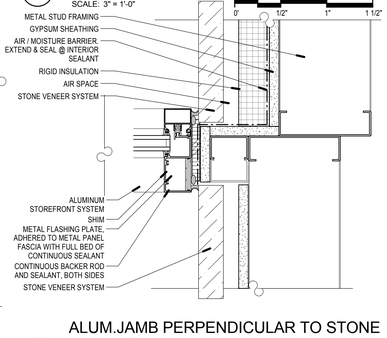

B3 JAMB CW @ EXISTING

SCALE: 1 1/2" = 1'-0"



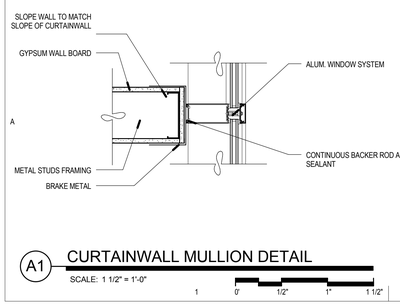

B4 CURTAINWALL JAMB PERPENDICULAR TO BRICK

SCALE: 3" = 1'-0"



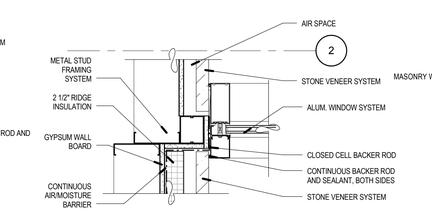

B5 ALUM.JAMB PERPENDICULAR TO STONE VENEER

SCALE: 3" = 1'-0"



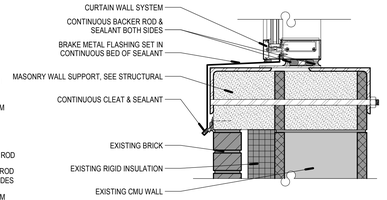

A1 CURTAINWALL MULLION DETAIL

SCALE: 1 1/2" = 1'-0"



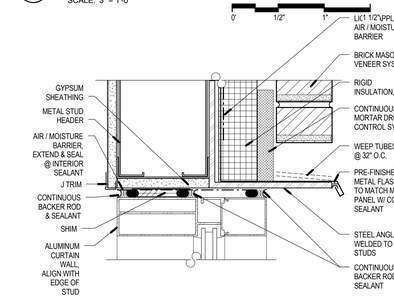

A2 JAMB CW @ STONE CLADDING

SCALE: 1 1/2" = 1'-0"



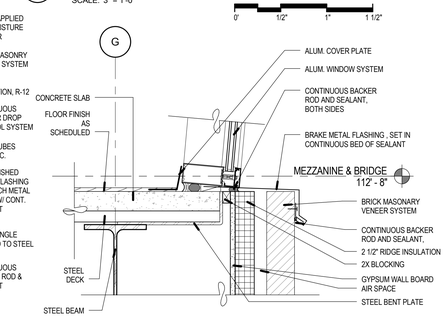

A3 SILL CW @ EXISTING

SCALE: 1 1/2" = 1'-0"




A4 CURTAINWALL HEAD @ MASONRY VENEER

SCALE: 3" = 1'-0"




A5 SILL CURTAIN WALL @ SLAB EDGE

SCALE: 1 1/2" = 1'-0"

VCBO ARCHITECTURE
524 SOUTH 600 EAST
SALT LAKE CITY, UT 84102
Phone: (801) 575-8800
Fax: (801) 531-9850
WWW: www.vcbo.com

DFCM CODE COMPLIANCE STAMP

# Student Activity Center
## Stromberg Addition - BID SET
Weber State University
3750 Harrison Blvd. Ogden, UT 84408

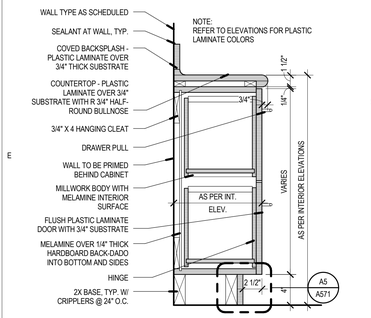
| Rev # | Date | Description |
|---|---|---|

Job # 12475
CAD File
Drawn Author Checked Checker
Date 10.03.2012
Owner # DFCM #12031810

GLAZING DETAILS

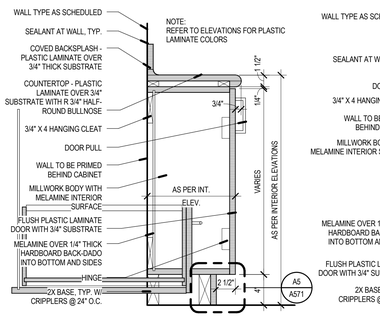
A562

10/3/2012 12:53:41 PM



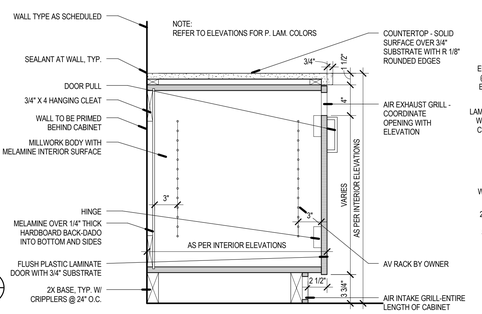

E1 BASE FILE CABINET SECTION

SCALE: 1 1/2" = 1'-0"



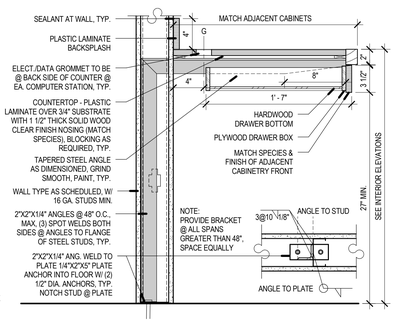

E2 BASE CABINET SECTION 12 INCH

SCALE: 1 1/2" = 1'-0"



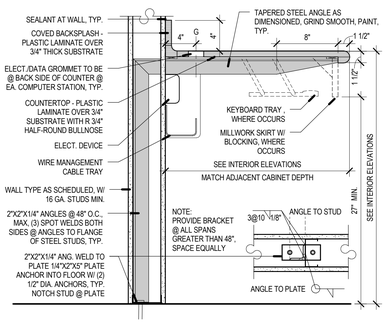

E3 AV CABINET SECTION

SCALE: 1 1/2" = 1'-0"



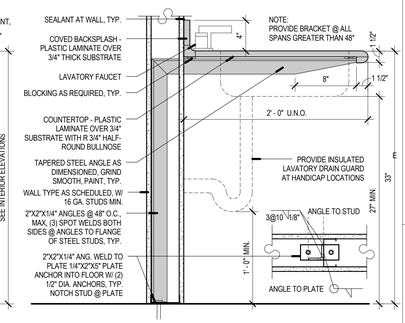

E4 DESK WITH PENCIL DRAWER

SCALE: 1 1/2" = 1'-0"



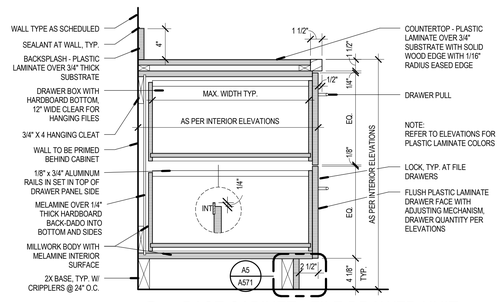

E5 WALL HUNG COUNTERTOP

SCALE: 1 1/2" = 1'-0"



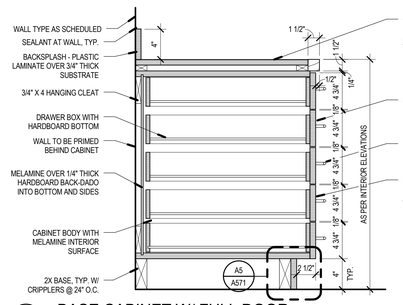

E6 WALL MOUNTED COUNTERTOP

SCALE: 1 1/2" = 1'-0"



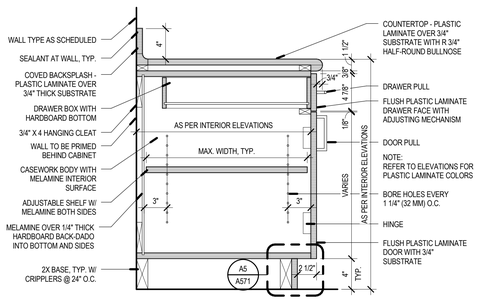

D2 BASE CABINET - FILE DRAWER UNIT

SCALE: 1 1/2" = 1'-0"



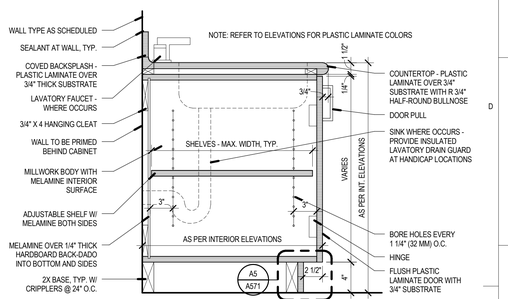

D3 BASE CABINET W/ FULL DOOR

SCALE: 1 1/2" = 1'-0"



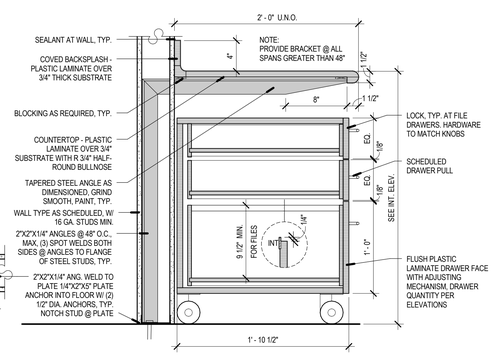

D5 BASE CABINET - DRAWER / DOOR

SCALE: 1 1/2" = 1'-0"



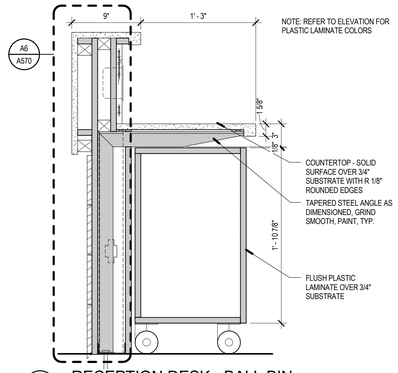

D6 BASE CABINET SECTION W/ FULL DOOR

SCALE: 1 1/2" = 1'-0"



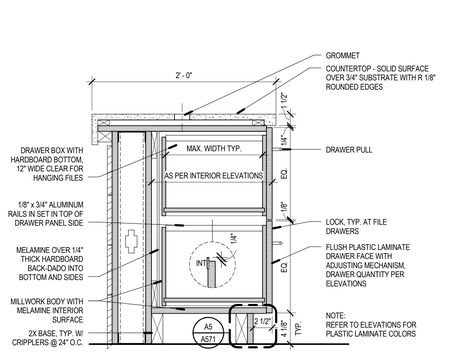

B2 COUNTERTOP - MOBILE DRAWERS

SCALE: 1 1/2" = 1'-0"



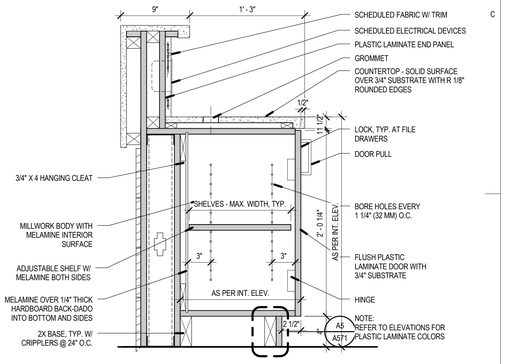

B3 RECEPTION DESK - BALL BIN

SCALE: 1 1/2" = 1'-0"



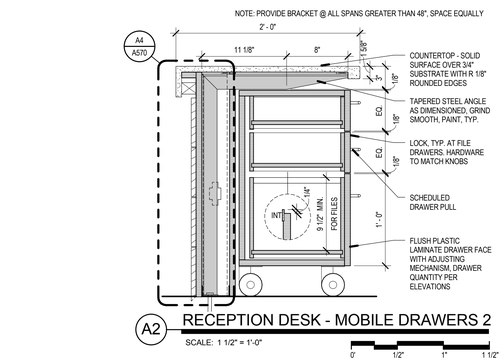

B5 RECEPTION DESK- DRAWERS

SCALE: 1 1/2" = 1'-0"



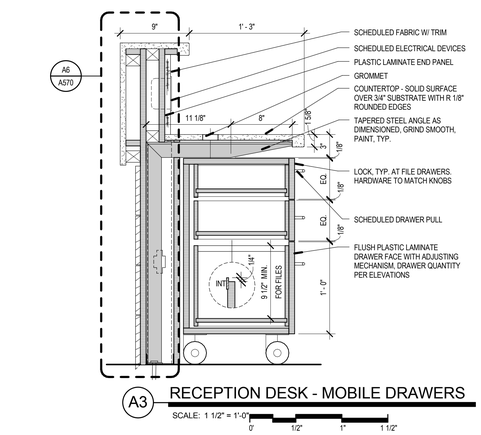

B6 RECEPTION DESK DOORS

SCALE: 1 1/2" = 1'-0"



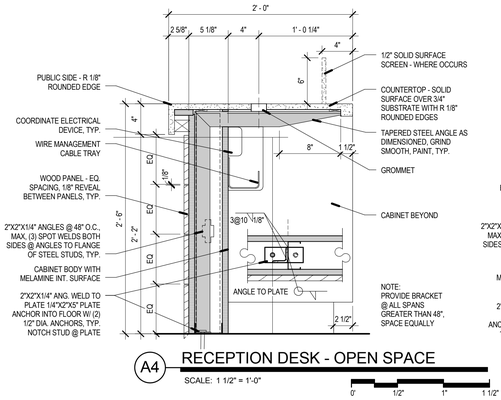

A2 RECEPTION DESK - MOBILE DRAWERS 2

SCALE: 1 1/2" = 1'-0"



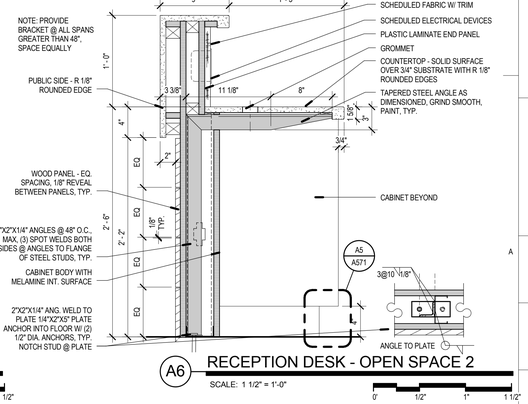

A3 RECEPTION DESK - MOBILE DRAWERS

SCALE: 1 1/2" = 1'-0"




A4 RECEPTION DESK - OPEN SPACE

SCALE: 1 1/2" = 1'-0"




A6 RECEPTION DESK - OPEN SPACE 2

SCALE: 1 1/2" = 1'-0"

VCBO ARCHITECTURE
524 SOUTH 600 EAST
SALT LAKE CITY, UT 84102
Phone: (801) 575-8800
Fax: (801) 531-9850
www: www.vcbo.com

DFCM CODE COMPLIANCE STAMP

# Student Activity Center
## Stromberg Addition - BID SET
Weber State University
3750 Harrison Blvd. Ogden, UT 84408

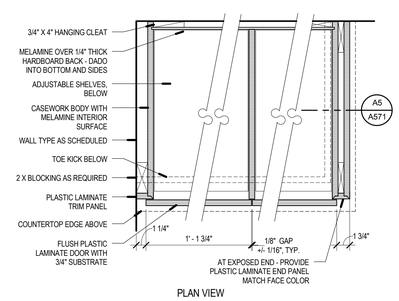
| Rev # | Date | Description |
|---|---|---|

Job # 12475
CAD File
Drawn Author Checked Checker
Date 10.03.2012
Owner # DFCM #12031810

TYPICAL CASEWORK DETAILS

A570

10/3/2012 12:53:46 PM

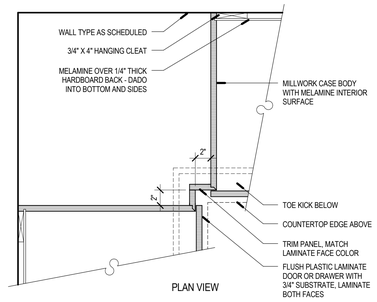



PLAN VIEW

## E2 BASE CABINET PLAN DETAIL

SCALE: 1 1/2" = 1'-0"

0' 1/2" 1" 1 1/2"

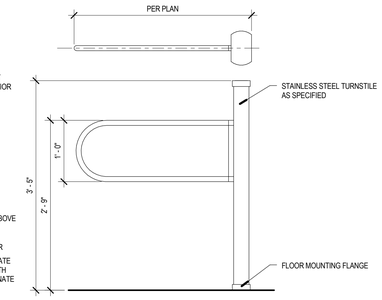



PLAN VIEW

## E3 BASE CORNER DETAIL

SCALE: 1 1/2" = 1'-0"

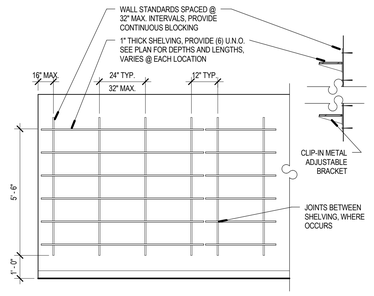
0' 1/2" 1" 1 1/2"




## E4 SWING GATE DETAIL

SCALE: 1" = 1'-0"

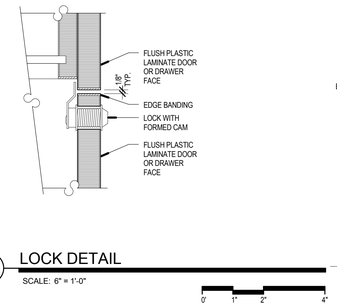
0' 6" 1' 2'




## E5 FULL HEIGHT ADJ. SHELVES

SCALE: 3/8" = 1'-0"

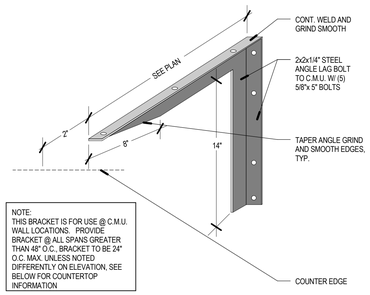
0' 1' 2' 4' 6'




## E6 LOCK DETAIL

SCALE: 6" = 1'-0"

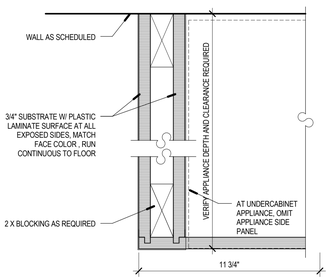
0' 1" 2" 4"




## C2 C.M.U. WALL MOUNTED ANGLE

SCALE: 1 1/2" = 1'-0"

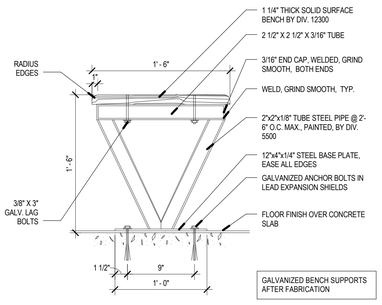
0' 1/2" 1" 1 1/2"




## C3 CABINET END PANEL, PLAN VIEW

SCALE: 3" = 1'-0"

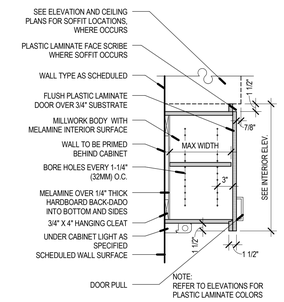
0' 1" 3" 6" 9"




## C4 VESTIBULE BENCH

SCALE: 1 1/2" = 1'-0"

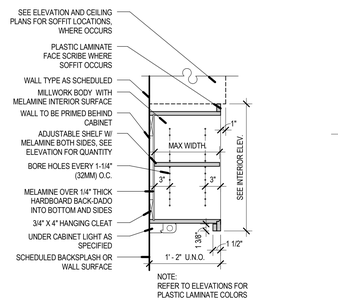
0' 1/2" 1" 1 1/2"




## C5 UPPER FULL DOOR SECTION

SCALE: 1" = 1'-0"

0' 6" 1' 2'




## C6 UPPER OPEN CABINET SECTION

SCALE: 1" = 1'-0"

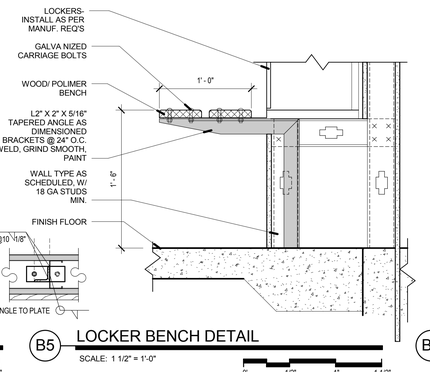
0' 6" 1' 2'




## B4 DVD MOUNTING DETAIL

SCALE: 3" = 1'-0"

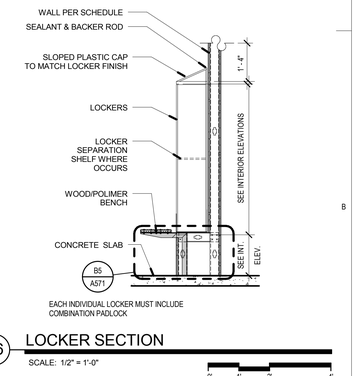
0' 1" 3" 6" 9"




## B5 LOCKER BENCH DETAIL

SCALE: 1 1/2" = 1'-0"

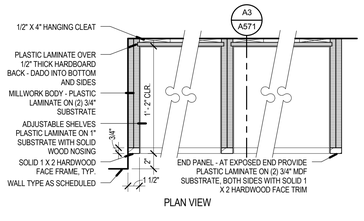
0' 1/2" 1" 1 1/2"




## B6 LOCKER SECTION

SCALE: 1/2" = 1'-0"

0' 1" 2" 4"

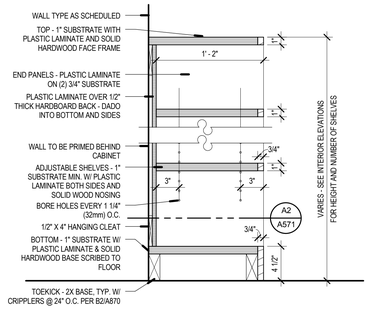



PLAN VIEW

## A2 BOOKSHELF / CUBBY PLAN DETAILS

SCALE: 1 1/2" = 1'-0"

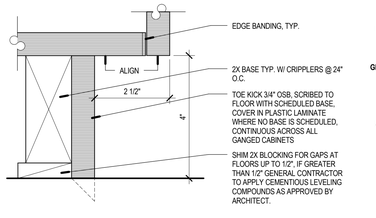
0' 1/2" 1" 1 1/2"




## A3 BOOKSHELF/ CUBBY SECTION DETAIL

SCALE: 1 1/2" = 1'-0"

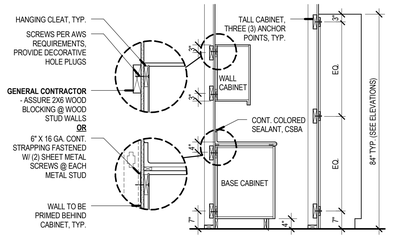
0' 1/2" 1" 1 1/2"




## A5 TOE KICK DETAIL

SCALE: 6" = 1'-0"

0' 1" 2" 4"




## A6 TYPICAL MILLWORK ANCHOR DETAILS

SCALE: 1/2" = 1'-0"

0' 1" 2" 4"

10/3/2012 12:53:51 PM


VCBO ARCHITECTURE
524 SOUTH 600 EAST
SALT LAKE CITY, UT 84102
Phone: (801) 575-8800
Fax: (801) 531-9850
WWW: www.vcbo.com


DFCM CODE COMPLIANCE STAMP

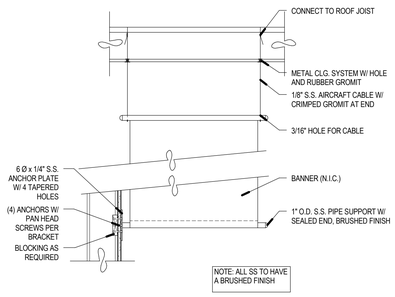
# Student Activity Center
## Stromberg Addition - BID SET
Weber State University
3750 Harrison Blvd. Ogden, UT 84408

| Rev # | Date | Description |
|---|---|---|

Job # 12475
CAD File
Drawn Author Checked Checker
Date 10.03.2012
Owner # DFCM #12031810

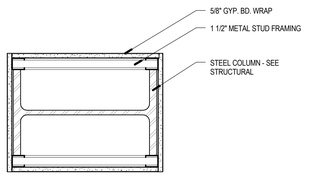
CASEWORK DETAILS

A571



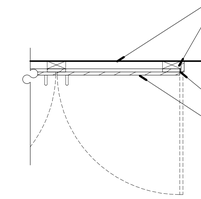

## E2 BANNER BRACKET DETAIL

SCALE: 1" = 1'-0"



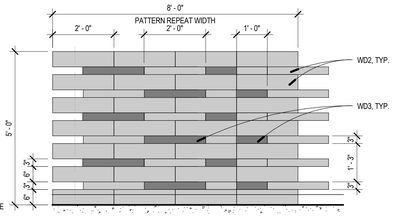

## E4 GYP. BD. COLUMN WRAP

SCALE: 1 1/2" = 1'-0"



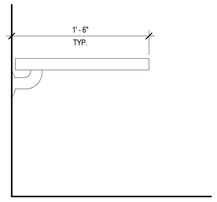

## E5 CABINET PANEL ACCESS DETAIL

SCALE: 1" = 1'-0"



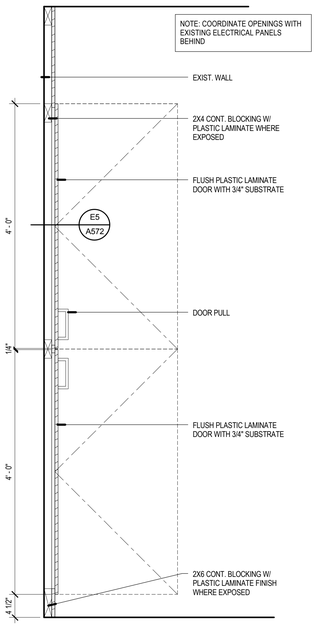

## E6 TYP. MDF WOOD PANEL PATTERN

SCALE: 1/2" = 1'-0"



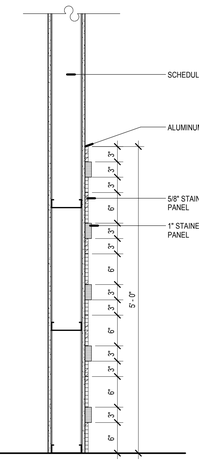

## D4 BENCH SECTION

SCALE: 1 1/2" = 1'-0"



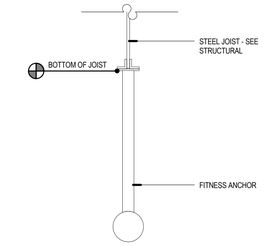

## E5 CABINET PANEL ACCESS

SCALE: 1" = 1'-0"




## E6 MDF PANEL DETAIL

SCALE: 1" = 1'-0"




## C4 CEILING MOUNTED FITNESS ANCHOR

SCALE: 1 1/2" = 1'-0"







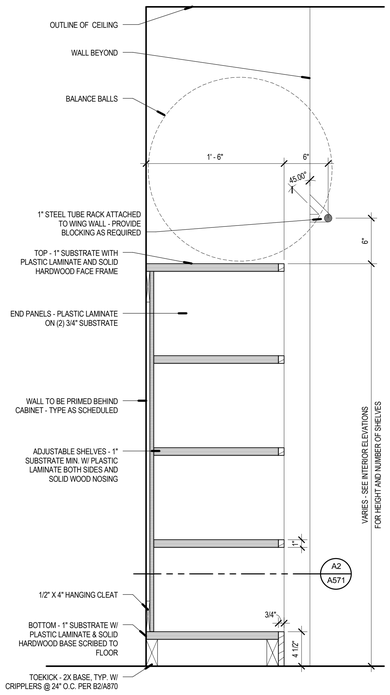
## C5 CABINET PANEL ACCESS

SCALE: 1" = 1'-0"



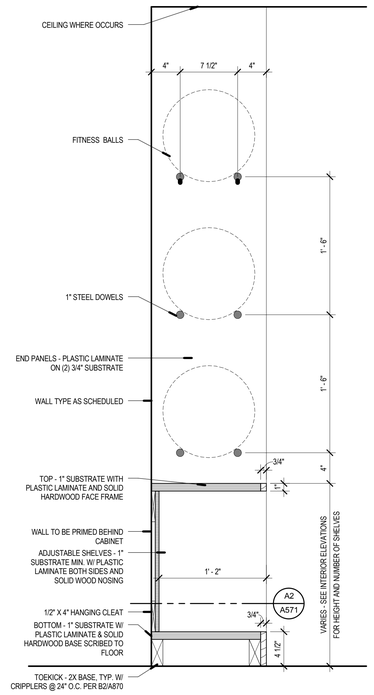

## C6 MDF PANEL DETAIL

SCALE: 1" = 1'-0"




## A2 CUBBIES AND BALL RACK

SCALE: 1 1/2" = 1'-0"




## A3 CUBBY AND BALL STORAGE

SCALE: 1 1/2" = 1'-0"

## A4 SUSPENSION TRAINING WALL MOUNT

SCALE: 3" = 1'-0"

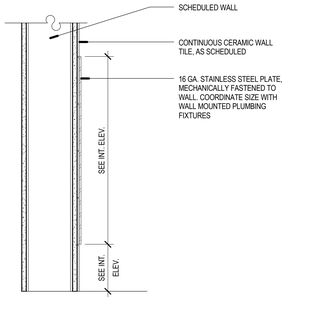






## A5 STAINLESS STEEL PANEL DETAIL

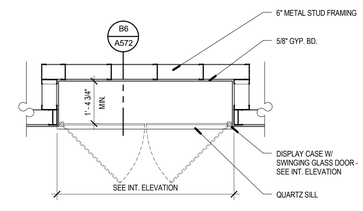
SCALE: 1 1/2" = 1'-0"




## B6 DISPLAY CASE DETAIL

SCALE: 1/2" = 1'-0"




## A6 DISPLAY CASE

SCALE: 1/2" = 1'-0"




VCBO
ARCHITECTURE
VALENTINER
CRANE
BRUNJES
ONYON

VCBO ARCHITECTURE
524 SOUTH 600 EAST
SALT LAKE CITY, UT 84102
Phone: (801) 575-8800
Fax: (801) 531-9850
WWW: www.vcbo.com

DFCM CODE COMPLIANCE STAMP

# Student Activity Center
## Stromberg Addition - BID SET
Weber State University
3750 Harrison Blvd. Ogden, UT 84408

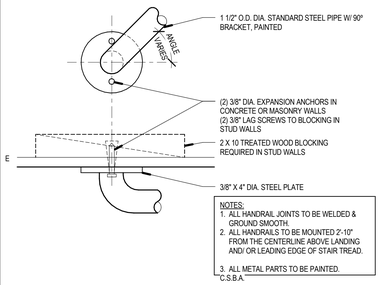
| Rev # | Date | Description |
|---|---|---|

Job # 12475
CAD File
Drawn Author Checked Checker
Date 10.03.2012
Owner # DFCM #12031810

CASEWORK DETAILS

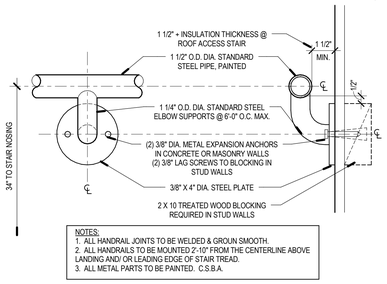
A572

10/3/2012 12:53:55 PM



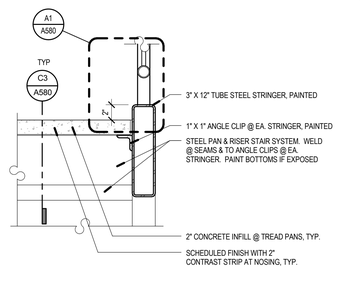

## E1 STANDARD HANDRAIL TERMINATION

SCALE: 3" = 1'-0"



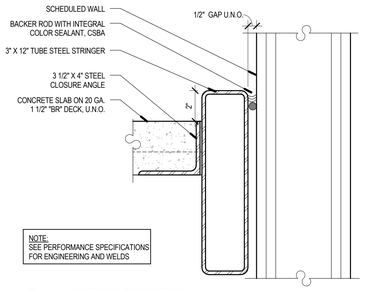

## E2 STANDARD MID-RAIL DETAIL

SCALE: 3" = 1'-0"



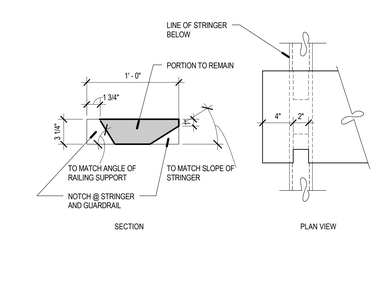

## E3 TYPICAL STRINGER DETAIL

SCALE: 1 1/2" = 1'-0"



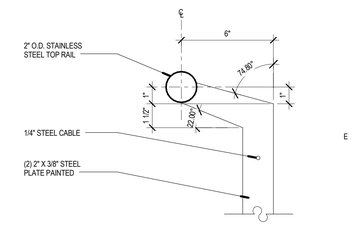

## E4 LANDING DETAIL

SCALE: 3" = 1'-0"



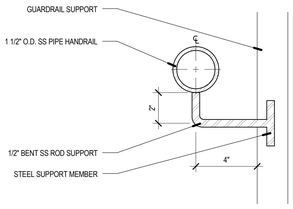

## E5 GRAND STAIR TREAD DETAIL

SCALE: 1 1/2" = 1'-0"



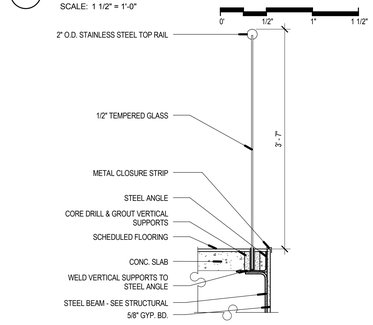

## E6 TOP HANDRAIL DETAIL

SCALE: 3" = 1'-0"



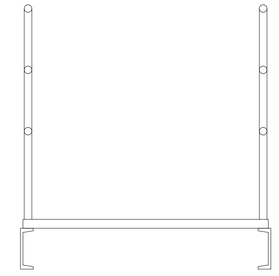

## D1 TYPICAL HANDRAIL DETAIL

SCALE: 3" = 1'-0"



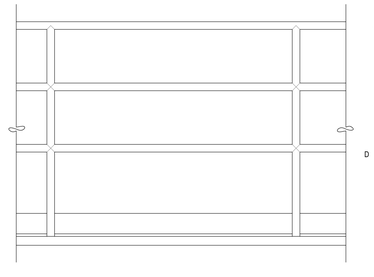

## D3 GLASS GUARDRAIL

SCALE: 1" = 1'-0"



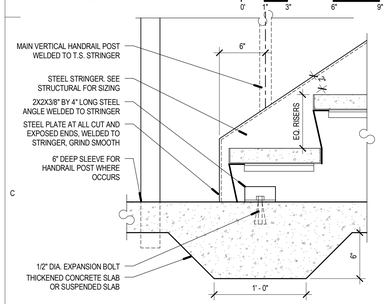
## D5 CATWALK SECTION

SCALE: 1" = 1'-0"



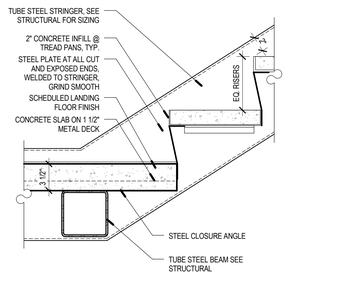
## D6 CATWALK GAURDRAIL

SCALE: 1" = 1'-0"



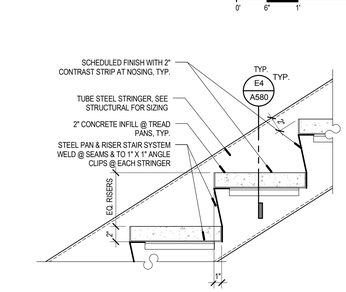

## C1 TYPICAL STAIR @ BASE

SCALE: 1 1/2" = 1'-0"



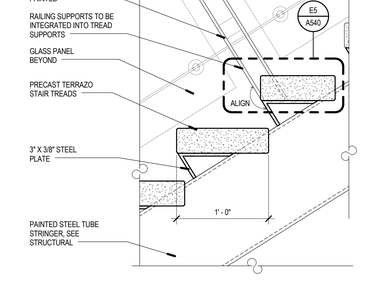

## C2 TYPICAL STAIR LANDING 2

SCALE: 1 1/2" = 1'-0"



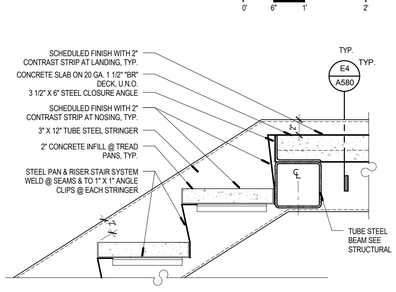

## C3 TYPICAL STAIR TREAD

SCALE: 1 1/2" = 1'-0"



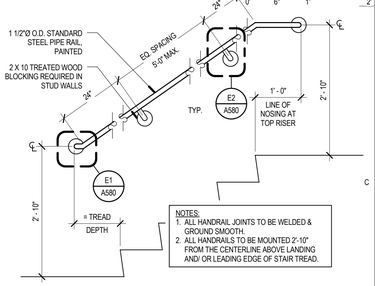

## C4 TREAD DETAIL

SCALE: 1 1/2" = 1'-0"



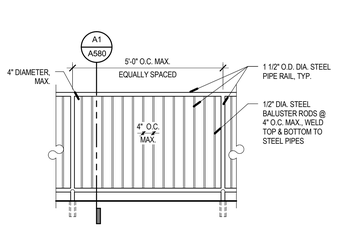

## C5 TYPICAL STAIR LANDING

SCALE: 1 1/2" = 1'-0"



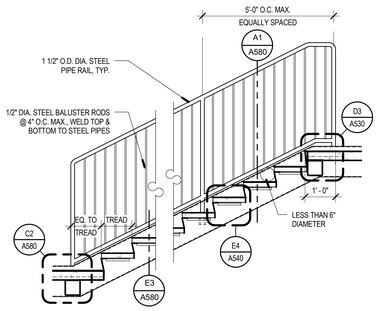

## C6 TYPICAL HANDRAIL ELEVATION

SCALE: 3/4" = 1'-0"



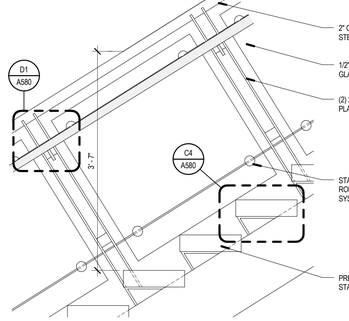

## B1 TYPICAL SITE GUARDRAIL ELEVATION

SCALE: 1/2" = 1'-0"



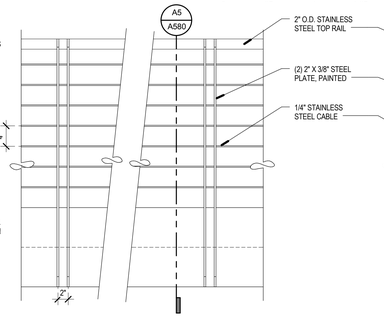

## B2 TYPICAL STAIR RAIL ELEVATION

SCALE: 1/2" = 1'-0"



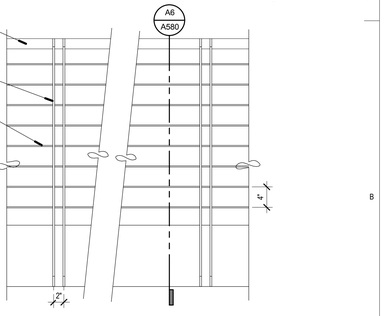

## B3 GLASS RAILING @ GRAND STAIR

SCALE: 1" = 1'-0"




## B4 RAILING @ LOBBY ELEVATION

SCALE: 1" = 1'-0"



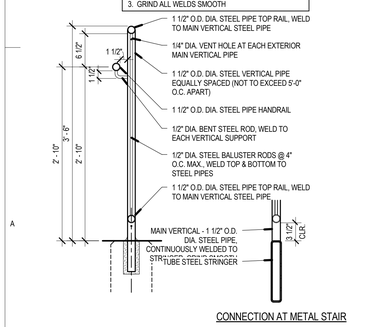

## B5 RAILING @ BRIDGE ELEVATION

SCALE: 1" = 1'-0"



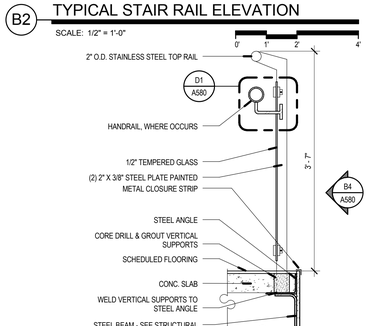
## B6 RAILING @ TRACK ELEVATION

SCALE: 1" = 1'-0"



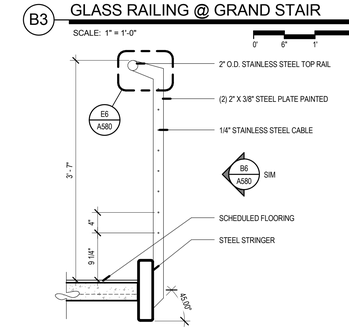

## A1 TYPICAL GUARDRAIL SECTION

SCALE: 1" = 1'-0"



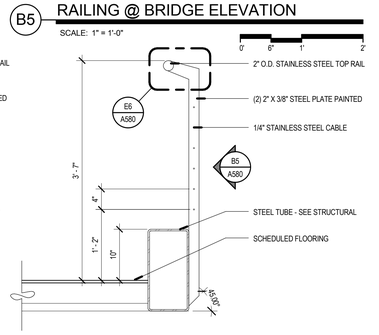

## A2 GUARDRAIL @ LOBBY STAIR

SCALE: 1" = 1'-0"



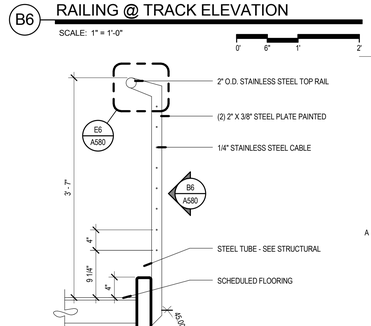

## A3 RAILING @ STAIR

SCALE: 1" = 1'-0"




## A4 RAILING @ BRIDGE 2

SCALE: 1" = 1'-0"




## A5 RAILING @ BRIDGE

SCALE: 1" = 1'-0"




## A6 RAILING @ TRACK SECTION

SCALE: 1" = 1'-0"

VCBO ARCHITECTURE
524 SOUTH 600 EAST
SALT LAKE CITY, UT 84102
Phone: (801) 575-8800
Fax: (801) 531-9850
WWW: www.vcbo.com

DFCM CODE COMPLIANCE STAMP

# Student Activity Center
## Stromberg Addition - BID SET
Weber State University
3750 Harrison Blvd. Ogden, UT 84408

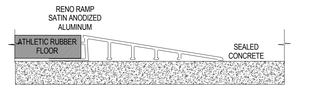
| Rev # | Date | Description |
|---|---|---|

Job # 12475
CAD File
Drawn Author Checked Checker
Date 10.03.2012
Owner # DFCM #12031810

RAILING DETAILS

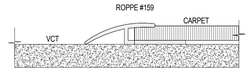
A580

10/3/2012 12:54:01 PM



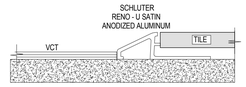

E3 ATHLETIC FLOOR TO CONCRETE

SCALE: 12" = 1'-0"



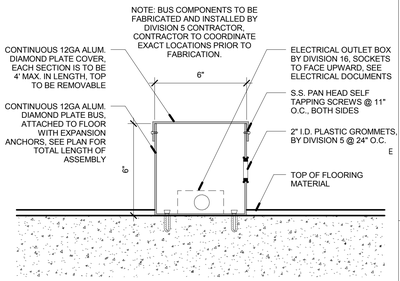

E4 VCT TO CARPET

SCALE: 12" = 1'-0"




E5 VCT TO TILE

SCALE: 12" = 1'-0"

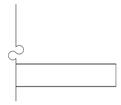



E6 ELECTRICAL FLOOR BUS

SCALE: 3" = 1'-0"

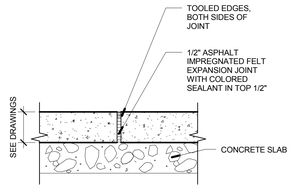
D2 EXPANSION JOINT FLOOR TO EXISTING WALL

SCALE: 1 1/2" = 1'-0"



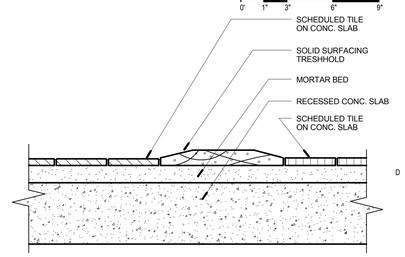
D3 EXPANSION JOINT FLOOR TO FLOOR

SCALE: 1 1/2" = 1'-0"



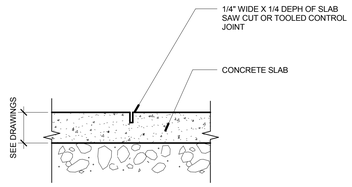

D4 EXPANSION JOINT DETAIL

SCALE: 1 1/2" = 1'-0"



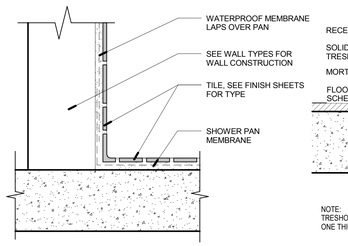

D6 THRESHOLD @ SHOWER

SCALE: 3" = 1'-0"



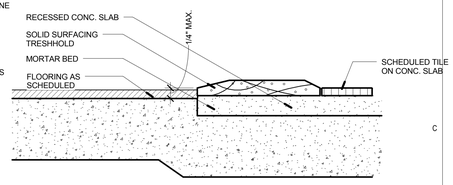

C3 TYP. CONTROL JOINT

SCALE: 1 1/2" = 1'-0"



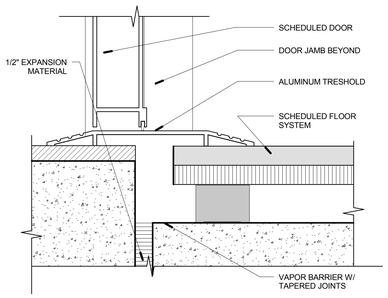

C5 TILE BASE DETAIL

SCALE: 3" = 1'-0"



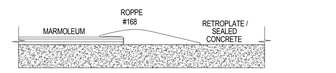

C6 TILE FLOOR TRANSITION

SCALE: 3" = 1'-0"



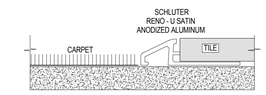

B2 THRESHOLD AT ATHLETIC FLOOR

SCALE: 6" = 1'-0"



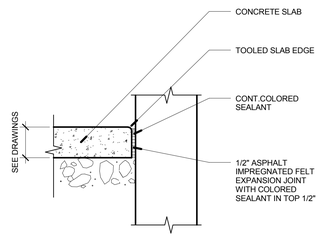

B3 MARMOLEUM TO CONCRETE

SCALE: 12" = 1'-0"



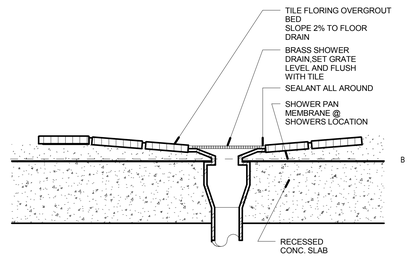

B4 CARPET TO TILE

SCALE: 12" = 1'-0"



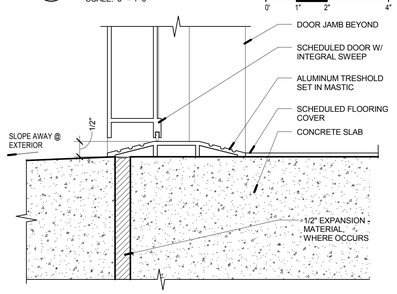

B5 SLAB JOINT @ CMU (NO BASE)

SCALE: 1 1/2" = 1'-0"



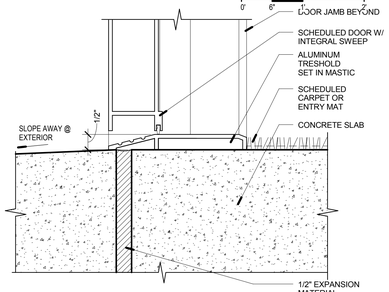

B6 DRAIN @ THICK SET TILE

SCALE: 3" = 1'-0"



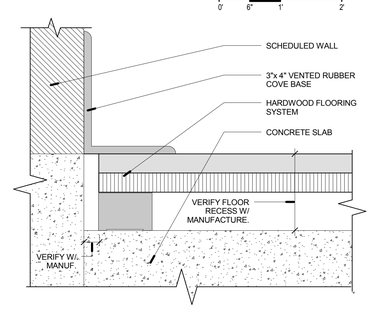

A2 THRESHOLD DETAIL

SCALE: 6" = 1'-0"



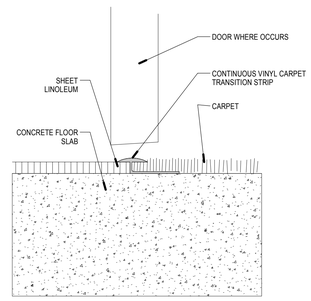

A3 THRESHOLD @ CARPET

SCALE: 6" = 1'-0"




A4 ATHLETIC FLOOR BASE DETAIL

SCALE: 6" = 1'-0"




A5 CARPET / LINOLEUM TRANSITION

SCALE: 6" = 1'-0"

VCBO
ARCHITECTURE
VALENTINER
CRANE
BRUNJES
ONYON

LICENSED ARCHITECT
No. 13392
BRENT R. TIPPETS
10-2-12
STATE OF UTAH

VCBO ARCHITECTURE
524 SOUTH 600 EAST
SALT LAKE CITY, UT 84102
Phone: (801) 575-8800
Fax: (801) 531-9850
WWW: www.vcbo.com

DFCM CODE COMPLIANCE STAMP

# Student Activity Center
## Stromberg Addition - BID SET
Weber State University
3750 Harrison Blvd. Ogden, UT 84408

| Rev # | Date | Description |
|---|---|---|

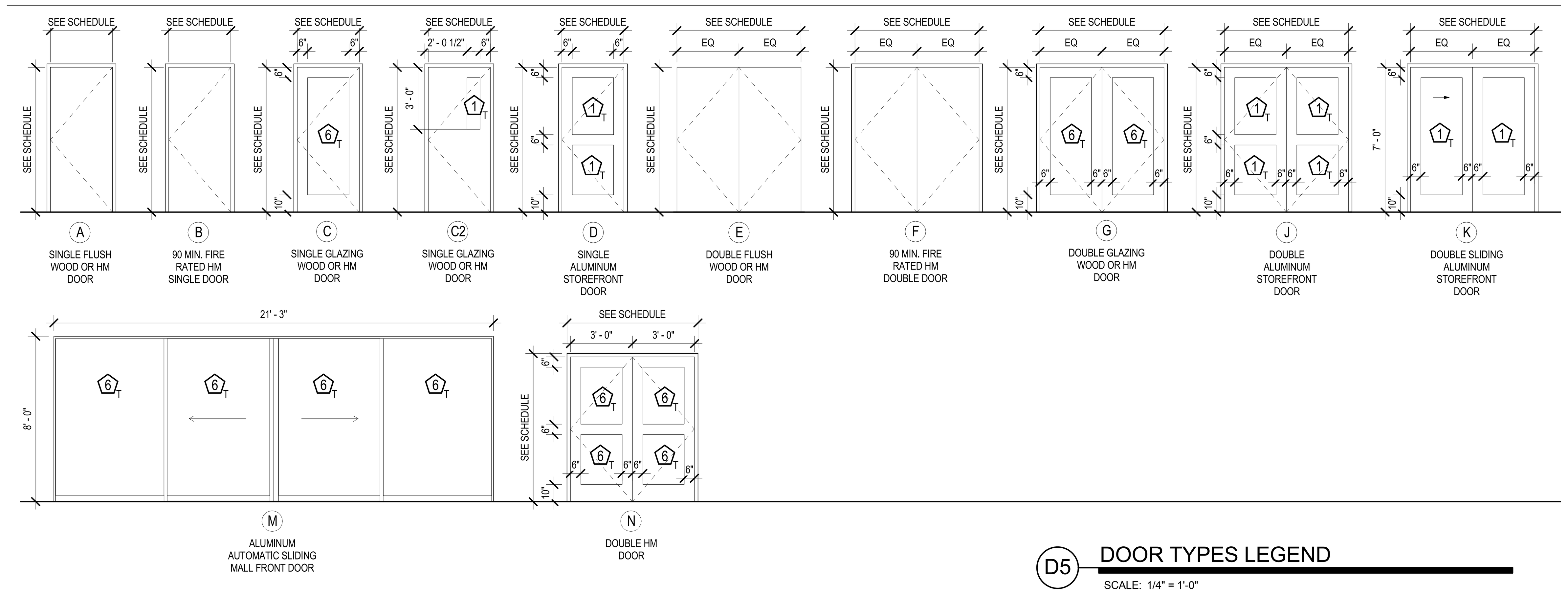
Job # 12475
CAD File
Drawn Author Checked Checker
Date 10.03.2012
Owner # DFCM #12031810

FLOOR / THRESHOLD DETAILS

A590

10/3/2012 12:54:06 PM

| DOOR AND FRAME SCHEDULE | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | DOOR | | | | | | | FRAME | | | | | | | |
| | | SIZE | | | | | | | | | | | | | |
| DOOR NUMBER | NEW/EXISTING | WIDTH | HEIGHT | THICK | ELEV. TYPE | MATERIAL | FACING/FINISH | NEW/EXISTING | ELEV. TYPE | MATERIAL | FINISH/FACING | HARDWARE GROUP | LABEL (MIN.) | NOTES | DOOR NUMBER |
| | N | 72" | 96" | 1 3/4" | J | Default | | N | | AL | | | | | |
| 3E1 | N | 48" | 84" | | - | | | N | | BY MFR. | | | 120 | | 3E1 |
| 3E1 A | N | 48" | 84" | | - | | | N | | BY MFR. | | | 120 | | 3E1 A |
| 100 | N | 255" | 96" | | M | | | N | 3 | AL | ANODIZED | | | AUTOMATIC MALL DUAL SLIDER | 100 |
| 100A | N | 72" | 96" | 1 3/4" | J | AL | ANODIZED | N | 2 | AL | ANODIZED | 1.0 | | NORTH ENTRY | 100A |
| 101 | N | 36" | 84" | 1 3/4" | D | AL | ANODIZED | N | 4 | AL | ANODIZED | 9.0 | | RECEPTION | 101 |
| 101A | N | 36" | 84" | 1 3/4" | A | H.M. | PAINT | N | 8 | H.M. | PAINT | 15.0 | | EQUIP | 101A |
| 101AB | N | 36" | 84" | 1 3/4" | A | H.M. | PAINT | N | 8 | H.M. | PAINT | 15.0 | | EQUIP | 101AB |
| 101B | N | 36" | 84" | 1 3/4" | C | WD | S.C.W.P. | N | 5 | AL | ANODIZED | 22.0 | | CONF | 101B |
| 101B1 | N | 36" | 84" | 1 3/4" | C | WD | S.C.W.P. | N | 8 | H.M. | PAINT | 23.0 | | CONF | 101B1 |
| 101D | N | 36" | 84" | 1 3/4" | C | WD | S.C.W.P. | N | 9 | HM | PAINT | 19.0 | | OFFICE | 101D |
| 101E | N | 36" | 84" | 1 3/4" | C | WD | S.C.W.P. | N | 9 | HM | PAINT | 19.0 | | OFFICE | 101E |
| 101F | N | 36" | 84" | 1 3/4" | C | WD | S.C.W.P. | N | 9 | HM | PAINT | 19.0 | | OFFICE | 101F |
| 101G | N | 36" | 84" | 1 3/4" | C | WD | S.C.W.P. | N | 9 | HM | PAINT | 19.0 | | STUDENT OFFICE | 101G |
| 102A | N | 36" | 80" | 1 3/4" | C | WD | S.C.W.P. | N | | H.M. | | 17.0 | | | 102A |
| 102B | N | 72" | 84" | 1 3/4" | | H.M. | PAINT | N | 11 | H.M. | PAINT | 8.0 | | LOBBY | 102B |
| 102C | N | 72" | 84" | 1 3/4" | | H.M. | PAINT | N | 11 | H.M. | PAINT | 8.0 | | LOBBY | 102C |
| 102D | N | 72" | 84" | 1 3/4" | | H.M. | PAINT | N | 11 | H.M. | PAINT | 8.0 | | LOBBY | 102D |
| 102E | N | 72" | 84" | 1 3/4" | | H.M. | PAINT | N | 11 | H.M. | PAINT | 8.0 | | LOBBY | 102E |
| 102F | N | 72" | 84" | 1 3/4" | E | H.M. | PAINT | N | 8 | H.M. | PAINT | 4.0 | | LOBBY ENTRY | 102F |
| 102G | N | 72" | 84" | 1 3/4" | E | H.M. | PAINT | N | 8 | H.M. | PAINT | 3.0 | | LOBBY ENTRY | 102G |
| 102H | N | 72" | 84" | 1 3/4" | E | H.M. | PAINT | N | 8 | H.M. | PAINT | 3.0 | | LOBBY ENTRY | 102H |
| 103A | N | 72" | 84" | 1 3/4" | | H.M. | PAINT | N | 8 | 09 - GRAY LITE | PAINT | | | MAINTENANCE EXT. | 103A |
| 103A1 | N | 72" | 84" | 1 3/4" | | H.M. | PAINT | N | 8 | 09 - GRAY LITE | PAINT | | | STORAGE INT. | 103A1 |
| 103B | N | 72" | 84" | 1 3/4" | E | H.M. | PAINT | N | 8 | H.M. | PAINT | 7.0 | | STORAGE EXT. | 103B |
| 103B1 | N | 96" | 84" | 1 3/4" | E | H.M. | PAINT | N | 8 | H.M. | PAINT | 7.0 | | STORAGE EXT. | 103B1 |
| 103B2 | N | 96" | 84" | 1 3/4" | E | H.M. | PAINT | N | 8 | H.M. | PAINT | 12.0 | | STORAGE INT. | 103B2 |
| 103P | N | 36" | 84" | 1 3/4" | A | H.M. | PAINT | N | 8 | H.M. | PAINT | 17.0 | | STOR | 103P |
| 105A | N | 36" | 84" | 1 3/4" | A | H.M. | PAINT | N | 8 | H.M. | PAINT | 15.0 | | F.R. | 105A |
| 105B | N | 36" | 84" | 1 3/4" | C | H.M. | PAINT | N | 9 | HM | PAINT | 19.0 | | OFFICE | 105B |
| 105C | N | 36" | 84" | 1 3/4" | C | H.M. | PAINT | N | 10 | HM | PAINT | 19.0 | | OFFICE | 105C |
| 109 | N | 36" | 84" | 1 3/4" | C | H.M. | PAINT | N | 9 | HM | PAINT | 20.0 | | CLUB | 109 |
| 150 | N | 72" | 84" | 1 3/4" | F | H.M. | PAINT | N | 8 | H.M. | PAINT | 6.0 | 120 | MECH. | 150 |
| 150A | N | 72" | 84" | 1 3/4" | F | H.M. | PAINT | N | 8 | H.M. | PAINT | 6.0 | 120 | MECH. | 150A |
| 199C | N | 36" | 84" | 1 3/4" | B | H.M. | PAINT | N | 8 | H.M. | PAINT | 5.0 | 120 | STAIR EXT. | 199C |
| 199D | N | 48" | 84" | | - | | | N | 8 | BY MFR. | BY MFR | 25.0 | 120 | ELEVATOR | 199D |
| 199E | N | 48" | 84" | | - | | | N | 8 | BY MFR. | BY MFR | 25.0 | 120 | ELEVATOR | 199E |
| 200CX | N | 20" | 84" | 1 3/4" | A | H.M. | PAINT | N | 8 | H.M. | PAINT | 14.0 | | PLUMBING | 200CX |
| 201 | N | 36" | 84" | 1 3/4" | A | H.M. | PAINT | N | 8 | H.M. | PAINT | 17.0 | | COMM | 201 |
| 202 | N | 36" | 84" | 1 3/4" | D | AL | | N | 7 | AL | ANODIZED | 9.0 | | FITNESS 202 | 202 |
| 202A | N | 36" | 84" | 1 3/4" | A | WD | | N | 8 | H.M. | PAINT | 14.0 | | FIT. STOR. | 202A |
| 202B | N | 36" | 84" | 1 3/4" | A | WD | | N | 8 | H.M. | PAINT | 14.0 | | FIT. STOR. | 202B |
| 202C | N | 36" | 84" | 1 3/4" | D | AL | | N | 7 | AL | ANODIZED | 9.0 | | FITNESS 202 | 202C |
| 203A | N | 36" | 84" | 1 3/4" | A | WD | | N | 8 | H.M. | PAINT | 7.0 | | FIT. STOR. | 203A |
| 203B | N | 36 1/4" | 84" | 1 3/4" | D | AL | | N | 6 | AL | ANODIZED | 9.0 | | FITNESS 203 | 203B |
| 203C | N | 36" | 84" | 1 3/4" | D | AL | | N | 6 | AL | ANODIZED | 9.0 | | FITNESS 203 | 203C |
| 206 | N | 36" | 84" | 1 3/4" | A | WD | PAINT | N | 8 | H.M. | PAINT | 24.0 | | MEN'S | 206 |
| 207 | N | 36" | 84" | 1 3/4" | A | WD | PAINT | N | 8 | H.M. | PAINT | 24.0 | | WOMEN'S | 207 |
| 208 | N | 36" | 84" | 1 3/4" | A | H.M. | PAINT | N | 8 | H.M. | PAINT | 14.0 | | JAN | 208 |
| 209 | N | 42" | 84" | 1 3/4" | A | H.M. | PAINT | N | 8 | PAINT | PAINT | 16.0 | | STORAGE | 209 |
| 209B | N | 36" | 84" | 1 3/4" | A | H.M. | | N | | H.M. | | | | | 209B |
| 210 | N | 36" | 84" | 1 3/4" | C | WD | PAINT | N | 10 | H.M. | PAINT | 20.0 | | WELLNESS ENTRY | 210 |
| 210A | N | 36" | 84" | 1 3/4" | C | WD | PAINT | N | 10 | HM | PAINT | 19.0 | | OFFICE | 210A |
| 210B | N | 36" | 84" | 1 3/4" | C2 | WD | PAINT | N | 10 | HM | PAINT | 19.0 | | OFFICE | 210B |
| 210C | N | 36" | 84" | 1 3/4" | C | WD | PAINT | N | 10 | HM | PAINT | 22.0 | | CONF. | 210C |
| 210E | N | 36" | 84" | 1 3/4" | C2 | WD | PAINT | N | 10 | HM | PAINT | 19.0 | | OFFICE | 210E |
| 210F | N | 36" | 84" | 1 3/4" | C | WD | PAINT | N | 10 | H.M. | PAINT | 19.0 | | OFFICE | 210F |
| 211 | N | 48" | 84" | | - | | | N | - | BY MFR. | BY MFR | 25.0 | 120 | ELEVATOR | 211 |
| 250 | N | 72" | 84" | 1 3/4" | F | <By Category> | | N | | H.M. | | | 120 | | 250 |
| 299C | N | 36" | 84" | 1 3/4" | B | H.M. | PAINT | N | 8 | H.M. | PAINT | 11.0 | 120 | STAIR | 299C |
| 399C | N | 36" | 84" | 1 3/4" | B | H.M. | PAINT | N | 8 | H.M. | PAINT | 11.0 | 120 | STAIR | 399C |




D5 DOOR TYPES LEGEND

SCALE: 1/4" = 1'-0"

## GLAZING TYPE LEGEND

| MARK | DESCRIPTION |
|---|---|
| 1 | 1" INSULATED , LOW-E SOLAR BAN 60 |
| 2 | 1" INSULATED, SPANDREL GLASS (MEDIUM COLOR) |
| 3 | 1" INSULATED, SPANDREL GLASS (MEDIUM DARK COLOR) |
| 4 | 1/2" FLOAT GLASS |
| 5 | 1" INSULATED, LAMINATED GLASS (SKYLIGHTS) |
| 6 | 1" INSULATED (INTERIOR) |
| 7 | FLOAT GLASS TEMPERED W/ TWO TONED ACID ETCHED GRAPHIC, ARCHITECT TO PROVIDE DIGITAL FILE FOR SPECIFIC DOORS |
| 8 | 1/4" ACID ETCHED FLOAT GLASS |
| 9 | 3/8" GLASS WITH BEVEL EDGE AT SIDES |
| 10 | 1" INSULATED , LOW-E SOLAR BAN 60 - ACID ETCHED FLOAT GLASS |
| #T | 'T' INDICATES TEMPERED GLASS |

NOTE:
WINDOW TYPE QUANTITIES PROVIDED FOR CONVENIENCE, THE CONTRACTOR IS RESPONSIBLE TO VERIFY THE QUANTITIES OF EACH WINDOW TYPE.

## DOOR & FRAME NOTES

1) MATERIAL ABBREVIATIONS:
SCWD - SOLID CORE WOOD DOOR
AL - ALUMINUM
HM - HOLLOW METAL
PT - PAINTED
ST - STAINED
CL - CLEAR ANODIZED
F - FABRIC

2) ALL HOLLOW METAL DOOR AND WINDOW FRAMES ARE TO HAVE A SINGLE RABBET PROFILE EXCEPT AT DOOR 116A.

3) SEE SPECIFICATION FOR HARDWARE GROUP DEFINITION

4) ALL HOLLOW METAL FRAMES OPENING TO THE EXTERIOR ARE TO BE 14 GAUGE AND GALVANIZED

5) ALL HOLLOW METAL DOORS OPENING TO THE EXTERIOR ARE TO BE 14 GAUGE, INSULATED AND GALVANIZED

6) OVERALL ALUMINUM FRAME DIMENSIONS ARE GIVEN FOR REFERENCE, REFER TO DETAILS FOR JAMB AND SILL CONDITIONS. OVERALL DIMENSIONS ARE TO BE FIELD VERIFIED PRIOR TO FABRICATION.

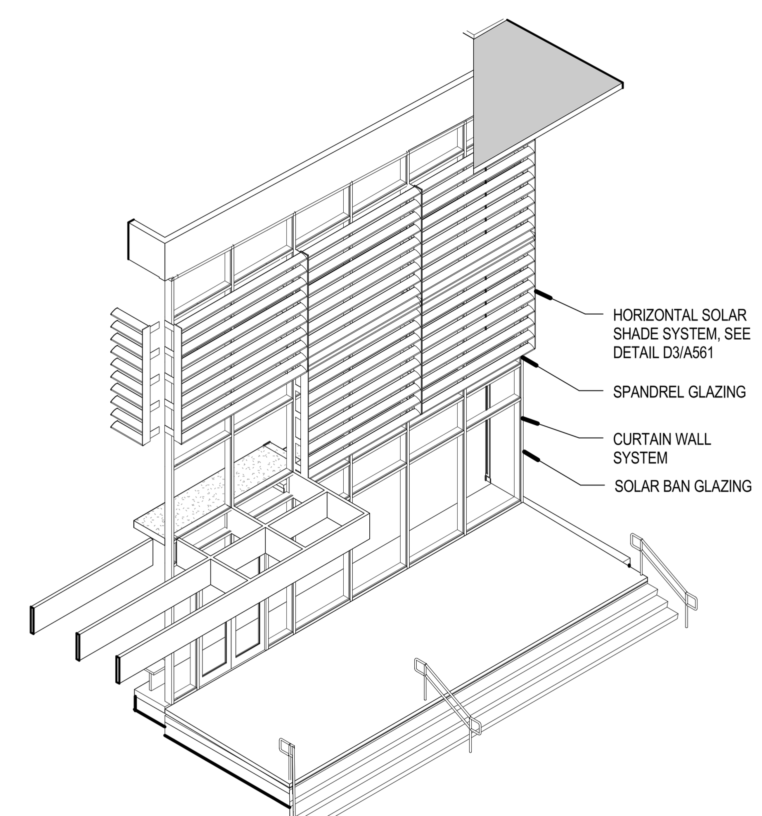
7) PROVIDE TEMPERED GLAZING AS REQUIRED BY IBC 2009.

8) DOOR THRESHOLDS ARE NOT TO BE INSTALLED UNTIL DOOR HAS BEED CLOSED TO CONSTRUCTION ACCESS.

9) WHERE A DOOR IS SHOWN ON THE FLOORS PLANS BUT IS NOT NUMBERED AND/OR DOES NOT APPEAR IN THE DOOR SCHEDULE, THE FOLLOWING DOOR, FRAME AND HARDWARE ARE TO BE BID FOR THIS OPENING: WD DOOR TYPE E, HM FRAME TYPE 1, HARDWARE TYPE 01.

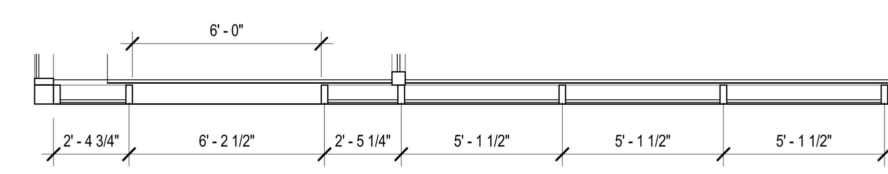
10) CONTRACTOR TO PROVIDE FLOOR STOPS AT LOCATIONS DOOR WILL SWING INTO A GLASS RAIL OR GLASS IN STOREFRONTS.

11) EXTERIOR STOREFRONT SYSTEM TO HAVE THERMAL SPRAYED INSULATION APPLIED INSIDE THE FRAME PERIMETER.

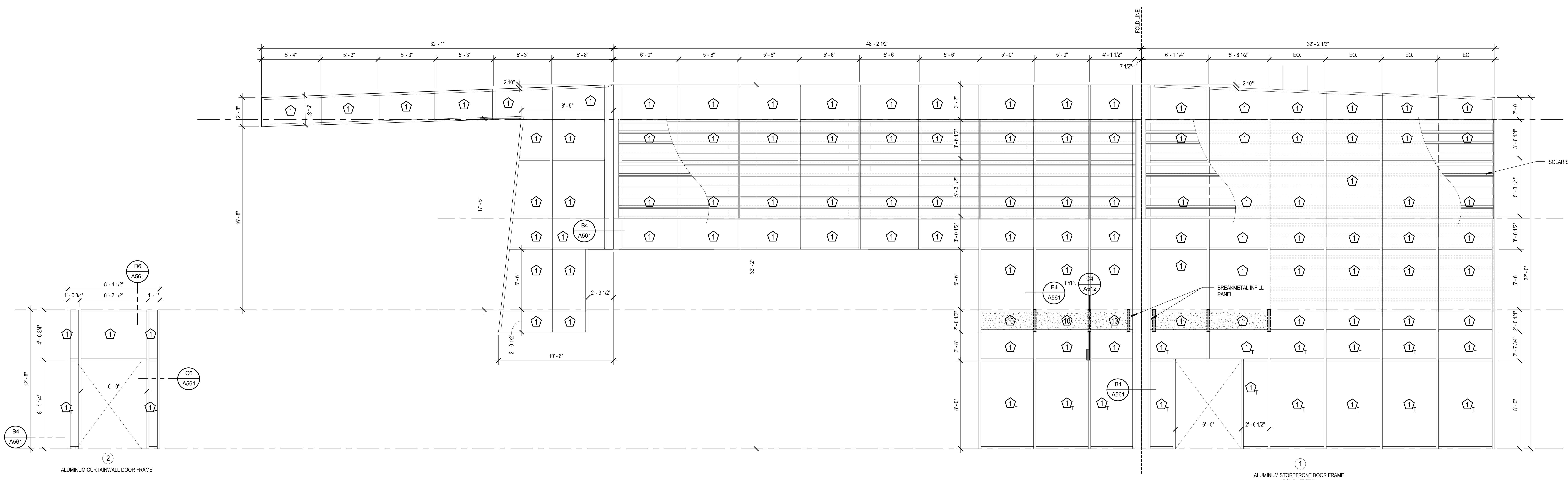



C4 SOLAR SHADE AT FRAME TYPE 1

SCALE:




DOOR FRAME TYPE '1' PLAN




2 ALUMINUM CURTAINWALL DOOR FRAME

1 ALUMINUM STOREFRONT DOOR FRAME (SOUTH ENTRY)

A5 CURTAIN WALL DOOR FRAMES

SCALE: 1/4" = 1'-0"

VCBO

ARCHITECTURE

VALENTINER
CRANE
BRUNJES
ONYON


VCBO ARCHITECTURE
524 SOUTH 600 EAST
SALT LAKE CITY, UT 84102
Phone: (801) 575-8800
Fax: (801) 531-9850
WWW: www.vcbo.com


BRENT R. TIPPETS
10-2-12
STATE OF UTAH

DFCM CODE COMPLIANCE STAMP

# Student Activity Center

## Stromberg Addition - BID SET

Weber State University
3750 Harrison Blvd. Ogden, UT 84408

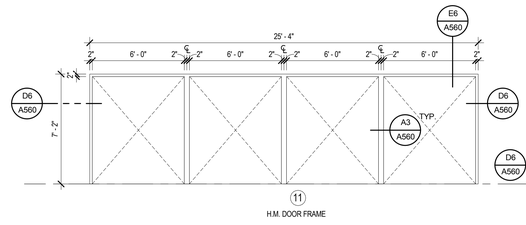
| Rev # | Date | Description |
|---|---|---|

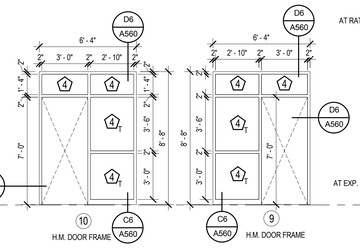
Job # 12475
CAD File
Drawn Author Checked Checker
Date 10.03.2012
Owner # DFCM #12031810

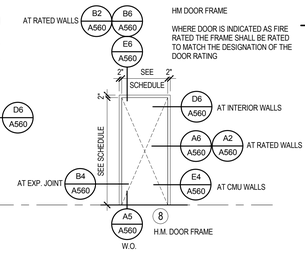
DOOR SCHEDULE

A600

10/3/2012 12:54:15 PM




## A6 H.M. DOOR FRAMES

SCALE: 1/4" = 1'-0"

0' 2' 4' 8' 16'

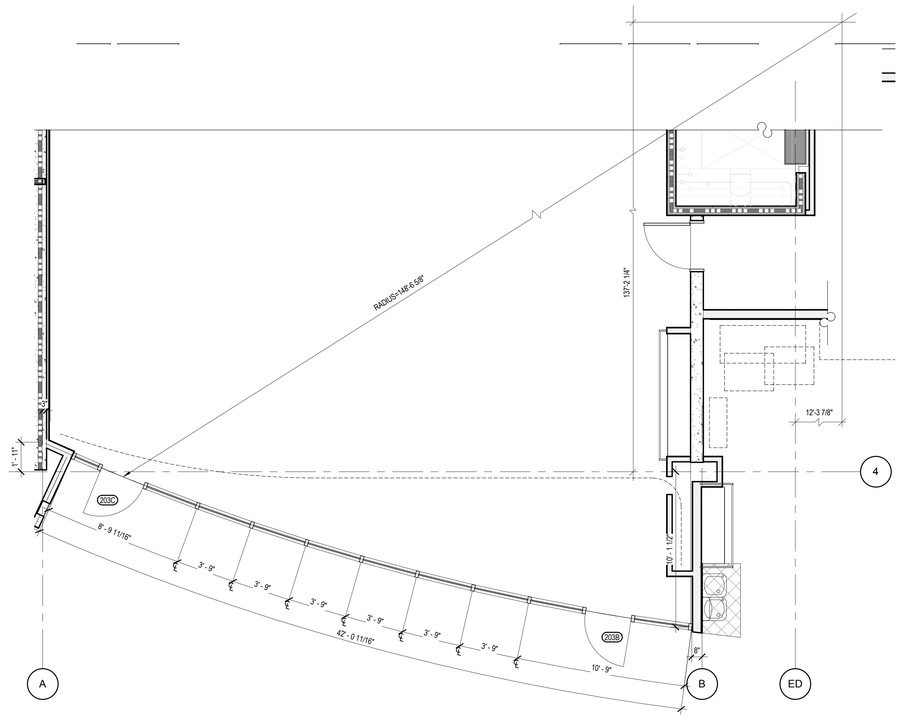
## GLAZING TYPE LEGEND

| MARK | DESCRIPTION |
|---|---|
| 1 | 1" INSULATED , LOW-E SOLAR BAN 60 |
| 2 | 1" INSULATED, SPANDREL GLASS (MEDIUM COLOR) |
| 3 | 1" INSULATED, SPANDREL GLASS (MEDIUM DARK COLOR) |
| 4 | 1/2" FLOAT GLASS |
| 5 | 1" INSULATED, LAMINATED GLASS (SKYLIGHTS) |
| 6 | 1" INSULATED (INTERIOR) |
| 7 | FLOAT GLASS TEMPERED W/ TWO TONED ACID ETCHED GRAPHIC, ARCHITECT TO PROVIDE DIGITAL FILE FOR SPECIFIC DOORS |
| 8 | 1/4" ACID ETCHED FLOAT GLASS |
| 9 | 3/8" GLASS WITH BEVEL EDGE AT SIDES |
| 10 | 1" INSULATED , LOW-E SOLAR BAN 60 - ACID ETCHED FLOAT GLASS |
| #T | 'T' INDICATES TEMPERED GLASS |

NOTE:
WINDOW TYPE QUANTITIES PROVIDED FOR CONVENIENCE, THE CONTRACTOR IS RESPONSIBLE TO VERIFY THE QUANTITIES OF EACH WINDOW TYPE.

## DOOR & FRAME NOTES

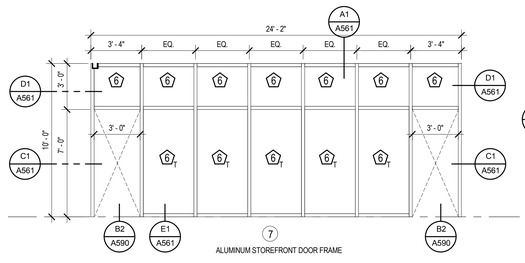
1) MATERIAL ABBREVIATIONS:
   SCWD - SOLID CORE WOOD DOOR
   AL - ALUMINUM
   HM - HOLLOW METAL
   PT - PAINTED
   ST - STAINED
   CL - CLEAR ANODIZED
   F - FABRIC
2) ALL HOLLOW METAL DOOR AND WINDOW FRAMES ARE TO HAVE A SINGLE RABBET PROFILE EXCEPT AT DOOR 116A.
3) SEE SPECIFICATION FOR HARDWARE GROUP DEFINITION
4) ALL HOLLOW METAL FRAMES OPENING TO THE EXTERIOR ARE TO BE 14 GAUGE AND GALVANIZED
5) ALL HOLLOW METAL DOORS OPENING TO THE EXTERIOR ARE TO BE 14 GAUGE, INSULATED AND GALVANIZED
6) OVERALL ALUMINUM FRAME DIMENSIONS ARE GIVEN FOR REFERENCE, REFER TO DETAILS FOR JAMB AND SILL CONDITIONS. OVERALL DIMENSIONS ARE TO BE FIELD VERIFIED PRIOR TO FABRICATION.
7) PROVIDE TEMPERED GLAZING AS REQUIRED BY IBC 2009.
8) DOOR THRESHOLDS ARE NOT TO BE INSTALLED UNTIL DOOR HAS BEED CLOSED TO CONSTRUCTION ACCESS.
9) WHERE A DOOR IS SHOWN ON THE FLOORS PLANS BUT IS NOT NUMBERED AND/OR DOES NOT APPEAR IN THE DOOR SCHEDULE, THE FOLLOWING DOOR, FRAME AND HARDWARE ARE TO BE BID FOR THIS OPENING: WD DOOR TYPE E, HM FRAME TYPE 1, HARDWARE TYPE 01.
10) CONTRACTOR TO PROVIDE FLOOR STOPS AT LOCATIONS DOOR WILL SWING INTO A GLASS RAIL OR GLASS IN STOREFRONTS.
11) EXTERIOR STOREFRONT SYSTEM TO HAVE THERMAL SPRAYED INSULATION APPLIED INSIDE THE FRAME PERIMETER.

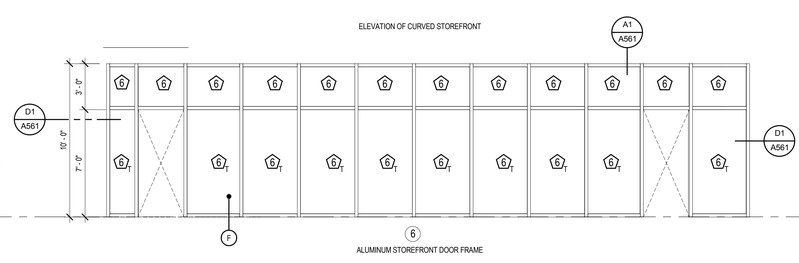


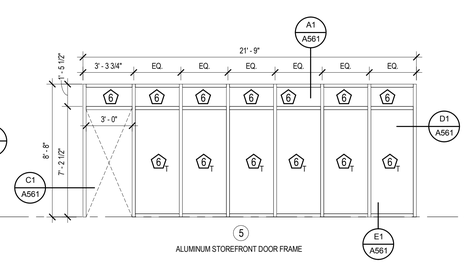

## C5 DOOR FRAME TYPE 6 PLAN

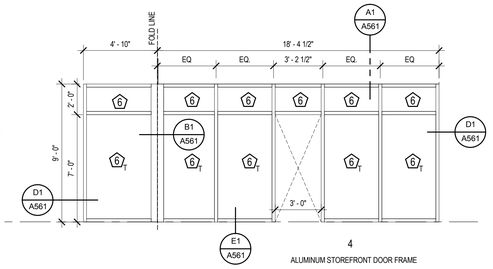
SCALE: 1/4" = 1'-0"

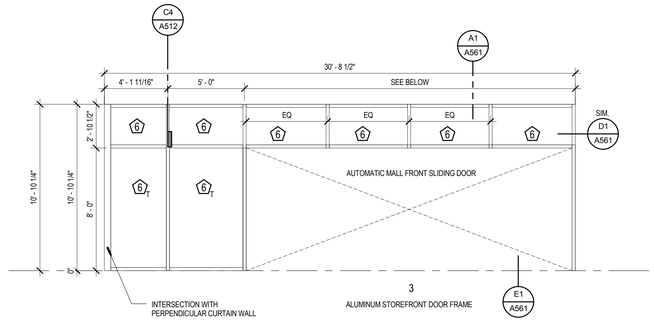
0' 2' 4' 8' 16'




## B6 ALUMN. STOREFRONT DOOR FRAMES

SCALE: 1/4" = 1'-0"

0' 2' 4' 8' 16'


VCBO ARCHITECTURE
524 SOUTH 600 EAST
SALT LAKE CITY, UT 84102
Phone: (801) 575-8800
Fax: (801) 531-9850
WWW: www.vcbo.com


DFCM CODE COMPLIANCE STAMP

# Student Activity Center
Stromberg Addition - BID SET
Weber State University
3750 Harrison Blvd. Ogden, UT 84408

| Rev # | Date | Description |
|---|---|---|

Job # 12475
CAD File
Drawn Author Checked Checker
Date 10.03.2012
Owner # DFCM #12031810

DOOR TYPES

A601

10/3/2012 12:54:23 PM

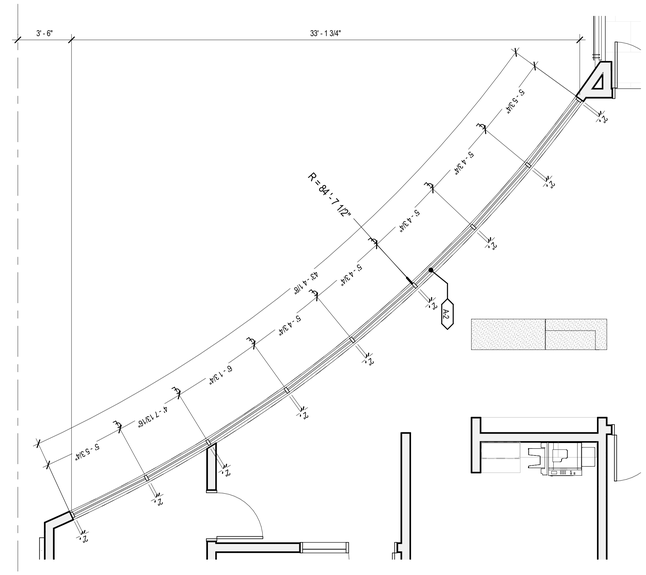
## GLAZING TYPE LEGEND

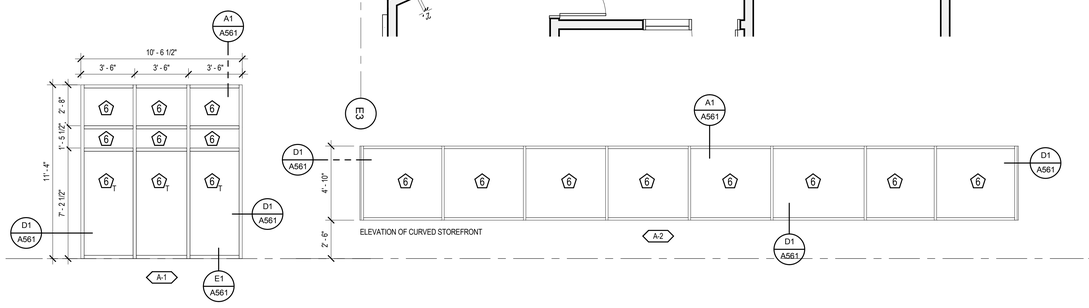
| MARK | DESCRIPTION |
|---|---|
| 1 | 1" INSULATED , LOW-E SOLAR BAN 60 |
| 2 | 1" INSULATED, SPANDREL GLASS (MEDIUM COLOR) |
| 3 | 1" INSULATED, SPANDREL GLASS (MEDIUM DARK COLOR) |
| 4 | 1/2" FLOAT GLASS |
| 5 | 1" INSULATED, LAMINATED GLASS (SKYLIGHTS) |
| 6 | 1" INSULATED (INTERIOR) |
| 7 | FLOAT GLASS TEMPERED W/ TWO TONED ACID ETCHED GRAPHIC, ARCHITECT TO PROVIDE DIGITAL FILE FOR SPECIFIC DOORS |
| 8 | 1/4" ACID ETCHED FLOAT GLASS |
| 9 | 3/8" GLASS WITH BEVEL EDGE AT SIDES |
| 10 | 1" INSULATED , LOW-E SOLAR BAN 60 - ACID ETCHED FLOAT GLASS |
| #T | 'T' INDICATES TEMPERED GLASS |

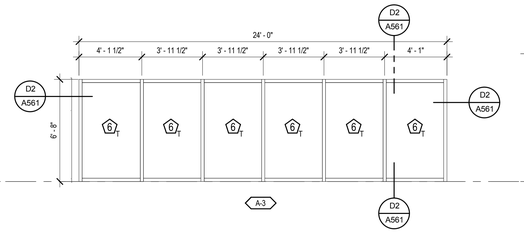
NOTE:
WINDOW TYPE QUANTITIES PROVIDED FOR CONVENIENCE, THE CONTRACTOR IS RESPONSIBLE TO VERIFY THE QUANTITIES OF EACH WINDOW TYPE.

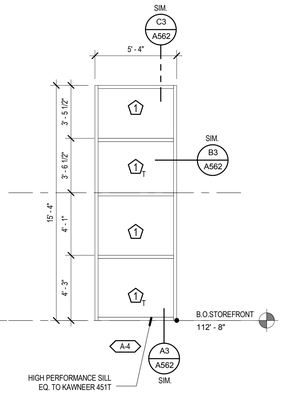
## WINDOW TYPE LEGEND

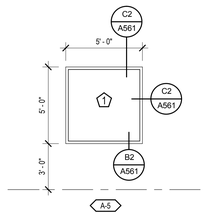
**FRAME**
A - ALUMINUM STOREFRONT
B - BUTT GLAZED FRAMELESS (INTERIOR)
C - CURTAIN WALL
H - HOLLOW METAL
W - WOOD



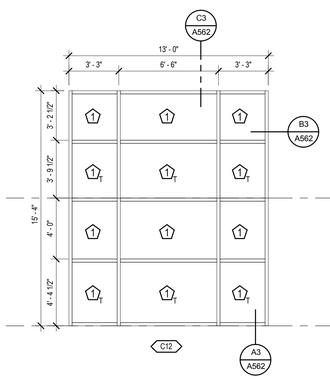



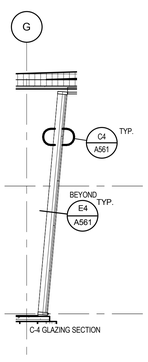



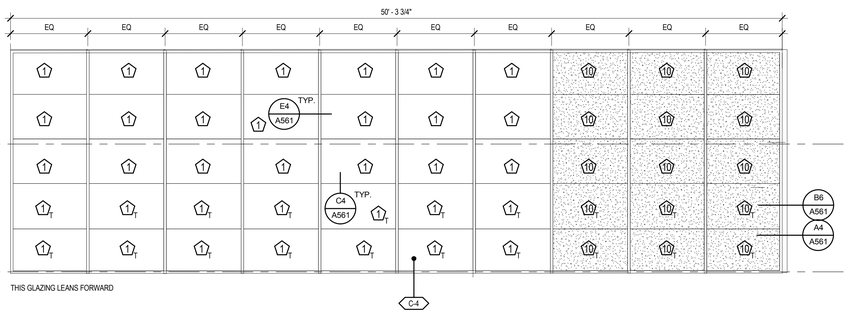

## EXTERIOR/INTERIOR ALUMINUM STOREFRONT

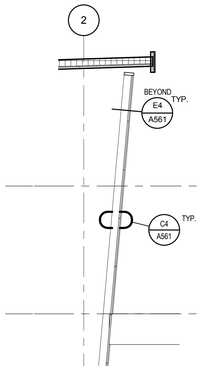
C6 — SCALE: 1/4" = 1'-0"

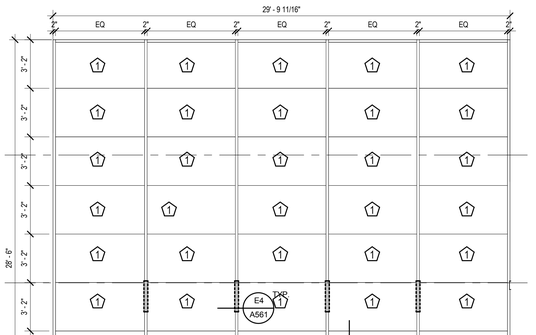
0' 2' 4' 8' 16'




## ALUMINUM CURTAIN WALLS

A6 — SCALE: 1/4" = 1'-0"

0' 2' 4' 8' 16'


VCBO ARCHITECTURE
524 SOUTH 600 EAST
SALT LAKE CITY, UT 84102
Phone: (801) 575-8800
Fax: (801) 531-9850
WWW: www.vcbo.com


DFCM CODE COMPLIANCE STAMP

# Student Activity Center
## Stromberg Addition - BID SET
Weber State University
3750 Harrison Blvd. Ogden, UT 84408

| Rev # | Date | Description |
|---|---|---|

Job # 12475
CAD File
Drawn Author Checked Checker
Date 10.03.2012
Owner # DFCM #12031810

WINDOW TYPES

A610

10/3/2012 12:54:31 PM

## GLAZING TYPE LEGEND

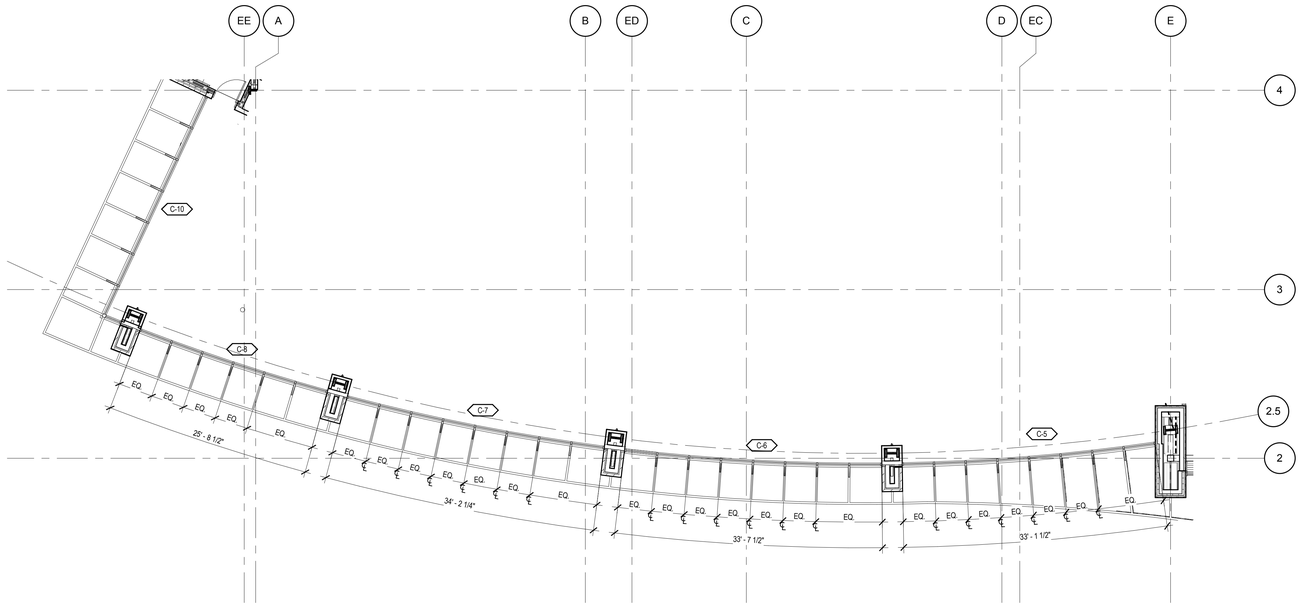
| MARK | DESCRIPTION |
|---|---|
| 1 | 1" INSULATED , LOW-E SOLAR BAN 60 |
| 2 | 1" INSULATED, SPANDREL GLASS (MEDIUM COLOR) |
| 3 | 1" INSULATED, SPANDREL GLASS (MEDIUM DARK COLOR) |
| 4 | 1/2" FLOAT GLASS |
| 5 | 1" INSULATED, LAMINATED GLASS (SKYLIGHTS) |
| 6 | 1" INSULATED (INTERIOR) |
| 7 | FLOAT GLASS TEMPERED W/ TWO TONED ACID ETCHED GRAPHIC, ARCHITECT TO PROVIDE DIGITAL FILE FOR SPECIFIC DOORS |
| 8 | 1/4" ACID ETCHED FLOAT GLASS |
| 9 | 3/8" GLASS WITH BEVEL EDGE AT SIDES |
| 10 | 1" INSULATED , LOW-E SOLAR BAN 60 - ACID ETCHED FLOAT GLASS |
| 1T | 'T' INDICATES TEMPERED GLASS |

NOTE:
WINDOW TYPE QUANTITIES PROVIDED FOR CONVENIENCE. THE CONTRACTOR IS RESPONSIBLE TO VERIFY THE QUANTITIES OF EACH WINDOW TYPE.

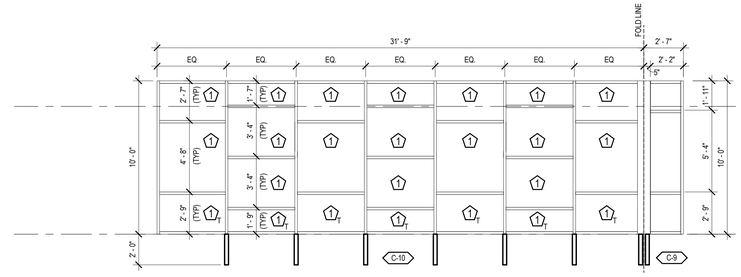
## WINDOW TYPE LEGEND

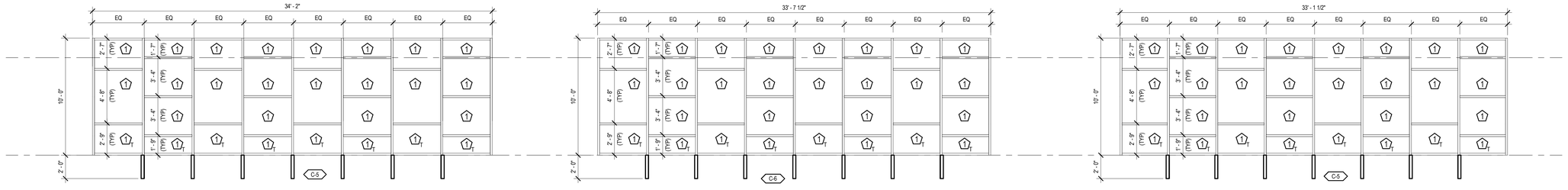
**FRAME**

A - ALUMINUM STOREFRONT
B - BUTT GLAZED FRAMELESS (INTERIOR)
C - CURTAIN WALL
H - HOLLOW METAL
W - WOOD




C5 SEGMENTED STOREFRONT
SCALE: 1/8" = 1'-0"
0' 2' 4' 8' 16'




A6 SEGMENTED STOREFRONT
SCALE: 1/4" = 1'-0"
0' 2' 4' 8' 16'

10/3/2012 12:54:39 PM


VCBO
ARCHITECTURE
VALENTINER
CRANE
BRUNJES
ONYON

VCBO ARCHITECTURE
524 SOUTH 600 EAST
SALT LAKE CITY, UT 84102
Phone: (801) 575-8800
Fax: (801) 531-9850
WWW: www.vcbo.com


DFCM CODE COMPLIANCE STAMP

# Student Activity Center
## Stromberg Addition - BID SET
Weber State University
3750 Harrison Blvd. Ogden, UT 84408

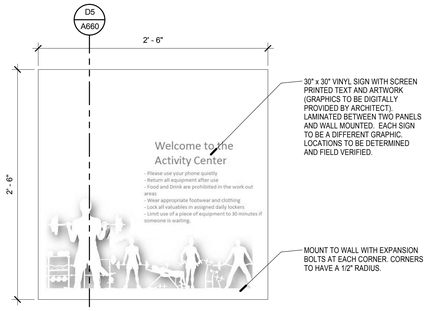
| Rev # | Date | Description |
|---|---|---|

Job # 12475
CAD File
Drawn Author Checked Checker
Date 10.03.2012
Owner # DFCM #12031810

WINDOW TYPES

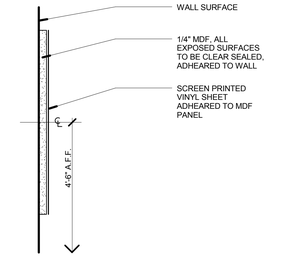
A611

| SIGNAGE SCHEDULE | | | | | | | |
|---|---|---|---|---|---|---|---|
| Level | Sign ID Number | VCBO Room Number | Sign Type | Sign Text | Description | Comments | Font Size |
| MAIN LEVEL | 1.101 | 100A | B | (TEXT AS DIRECTED BY ARCHITECT) | WALL MOUNT | BUILDING DEDICATION PLAQUE | Varies - As directed by Architect |
| MAIN LEVEL | 1.103 | 102 | A | (GRAPHIC) | SURFACE MOUNT | DIGITAL FILE TO BE PROVIDED BY ARCHITECT | 8" |
| MAIN LEVEL | 1.104 | 101 | D | CAMPUS RECREATION | WALL MOUNT | BUILDING DEDICATION PLAQUE | 8" |
| MAIN LEVEL | 1.105 | 103 | A | ARENA | SURFACE MOUNT | DIGITAL FILE TO BE PROVIDED BY ARCHITECT | 8" |
| MEZZANINE & BRIDGE | 2.106 | 202 | A | STUDIO A | SURFACE MOUNT | DIGITAL FILE TO BE PROVIDED BY ARCHITECT | 8" |
| MEZZANINE & BRIDGE | 2.107 | 213 | A | SWENSON BUILDING ACROSS BRIDGE | SURFACE MOUNT | DIGITAL FILE TO BE PROVIDED BY ARCHITECT | 8" |
| MEZZANINE & BRIDGE | 2.108 | 100A | D | STROMBERG STUDENT ACTIVITY CENTER | WALL MOUNT | DIGITAL FILE TO BE PROVIDED BY ARCHITECT | 8" |
| MEZZANINE & BRIDGE | P | | | | SURFACE MOUNT | DIGITAL FILE TO BE PROVIDED BY ARCHITECT | 8" |
| MEZZANINE & BRIDGE | P | | | | SURFACE MOUNT | DIGITAL FILE TO BE PROVIDED BY ARCHITECT | 8" |
| MEZZANINE & BRIDGE | P | | | | SURFACE MOUNT | DIGITAL FILE TO BE PROVIDED BY ARCHITECT | 8" |
| MEZZANINE & BRIDGE | P | | | | SURFACE MOUNT | DIGITAL FILE TO BE PROVIDED BY ARCHITECT | 8" |
| MEZZANINE & BRIDGE | P | | | | SURFACE MOUNT | | |
| LEVEL 03 NEW TRACK | | | | | SURFACE MOUNT | DIGITAL FILE TO BE PROVIDED BY ARCHITECT | 8" |



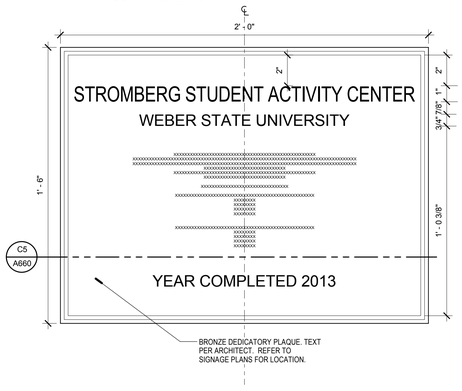

D4 SIGN TYPE A

SCALE: 1 1/2" = 1'-0"



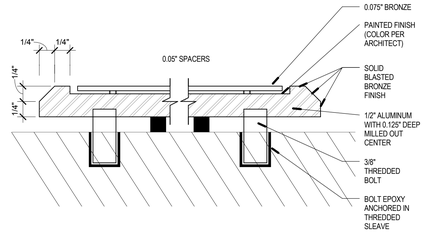

D5 VINYL SIGN TYPE A - SECTION

SCALE: 6" = 1'-0"



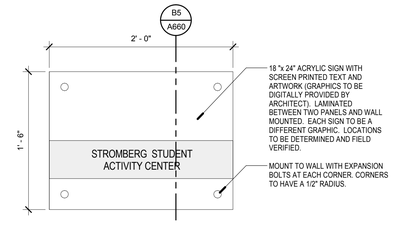

C4 SIGN TYPE B

SCALE: 3" = 1'-0"



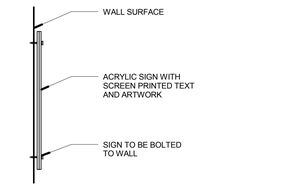

C5 INTERIOR SIGN SECTION

SCALE: 12" = 1'-0"



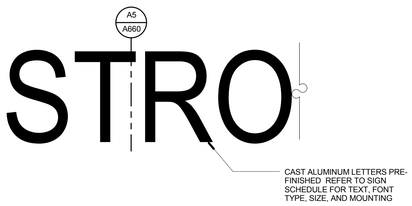

B4 SIGN TYPE C

SCALE: 1 1/2" = 1'-0"



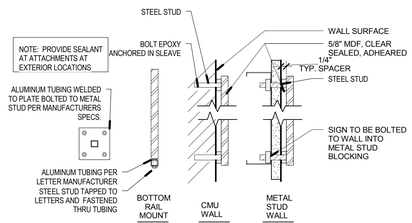

B5 WALL SIGN SECTION

SCALE: 1 1/2" = 1'-0"




A4 SIGN TYPE D

SCALE: 1" = 1'-0"




A5 CAST LETTER MOUNT DETAIL

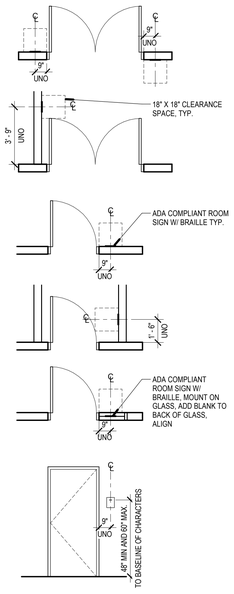
SCALE: 3" = 1'-0"

## GENERAL SIGNAGE NOTES

1. ALL SIGNS TO MEET CHAPTER 7 OF ANSI 117.1:2003 AND INCLUDE GRADE 2 BRAILLE. FINISH AND CONTRAST: CHARACTERS AND THEIR BACKGROUND SHALL HAVE A NON-GLARE FINISH. CHARACTERS SHALL CONTRAST WITH THEIR BACKGROUND, WIHT EITHER LIGHT CHARACTERS ON A DARK BACKGROUND OR DARK CHARACTERS ON A LIGHT BACKGROUND
2. ALL SANITARY FACILITIES MUST BE IDENTIFIED, INCLUDE INTERNATIONAL SYMBOL OF ACCESSIBILITY, PICTOGRAMS AND BRAILLE.
3. ALL ASSEMBLY OCCUPANCIES TO HAVE OCCUPANT LOAD POSTED NEAR THE MAIN EXIT OR EXIT ACCESS DOORWAY.
4. PROVIDE CODE REQUIRED SIGNAGE AT STAIRS: TACTILE SIGN WITH "EXIT" OUTSIDE STAIR DOORS ON UPPER FLOORS. INSIDE STAIR SIGN TO INDICATE STAIR NUMBER, EXIT LEVEL AND LEVEL ON.
5. PROVIDE CODE REQUIRED SIGNAGE AT ALL ELEVATOR DOORS.

## TYPICAL SIGNAGE LOCATIONS

1. SIGNS WITH TACTILE CHARACTERS SHALL BE PERMITTED ON THE PUSH SIDE OF DOORS WITH CLOSERS AND WITHOUT HOLD-OPEN DEVICES
2. WHERE A TACTILE SIGN IS PROVIDED AT DOUBLE DOORS WITH ONE ACTIVE LEAF, THE SIGN SHALL BE LOCATED ON THE INACTIVE LEAF SIDE.
3. TYPICAL SIGN HEIGHT TO BE 48" MIN AND 60" MAX TO BASELINE OF CHARACTERS, ARCHITECT TO FIELD VERIFY SIGN LOCATIONS WHEN CONFLICTS WITH DEVICES ARISE





ARCHITECTURE
VALENTINER
CRANE
BRUNJES
ONYON

BRENT R. TIPPETS
10-2-12

VCBO ARCHITECTURE
524 SOUTH 600 EAST
SALT LAKE CITY, UT 84102
Phone: (801) 575-8800
Fax: (801) 531-9850
WWW: www.vcbo.com


DFCM CODE COMPLIANCE STAMP

# Student Activity Center
## Stromberg Addition - BID SET
Weber State University
3750 Harrison Blvd. Ogden, UT 84408

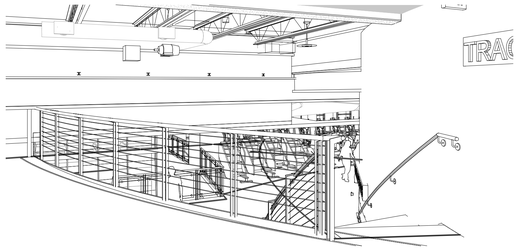
| Rev # | Date | Description |
|---|---|---|

Job # 12475
CAD File
Drawn Author Checked Checker
Date 10.03.2012
Owner # DFCM #12031810

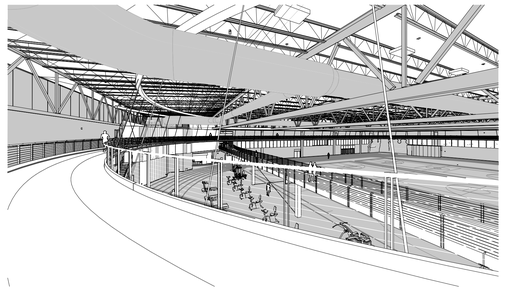
SIGNAGE

A660

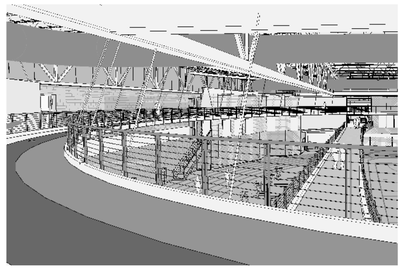
10/3/2012 12:54:43 PM



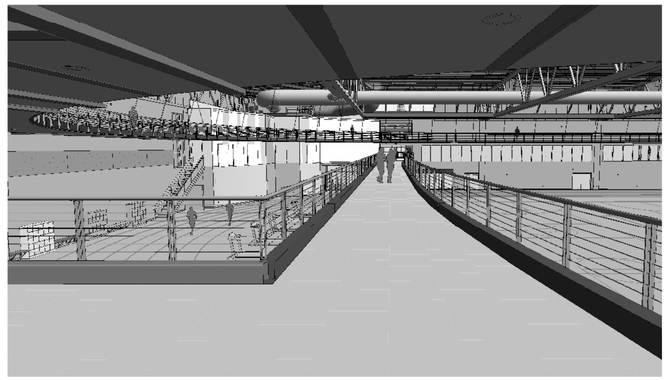
13 LVL 03 - Looking Down
SCALE:



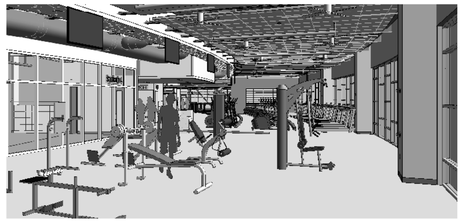
14 LVL 03 - Track
SCALE:



12 07 - LVL 03 - Looking down to Bridge
SCALE:

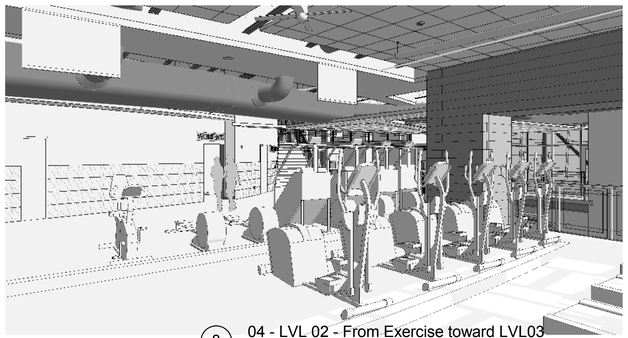


11 LVL 02 - looking back across bridge
SCALE:



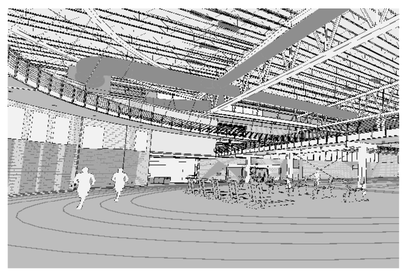
10 LVL 02 - Along Excercise
SCALE:

9 05 - LVL 02 - Along Excercise
SCALE:



8 04 - LVL 02 - From Exercise toward LVL03
SCALE:

3 03 - LVL 02 - @ Stairs - looking at excercise
SCALE:



4 06 - LVL 01 - Under Bridge
SCALE:

2 02 - LVL 01 - Back Corner of Lobby
SCALE:

1 01 - LVL 01 - Looking Up Main Stair
SCALE:

VCBO
ARCHITECTURE
VALENTINER
CRANE
BRUNJES
ONYON

VCBO ARCHITECTURE
524 SOUTH 600 EAST
SALT LAKE CITY, UT 84102
Phone: (801) 575-8800
Fax: (801) 531-9850
WWW: www.vcbo.com

DFCM CODE COMPLIANCE STAMP

# Student Activity Center
## Stromberg Addition - BID SET
Weber State University
3750 Harrison Blvd. Ogden, UT 84408

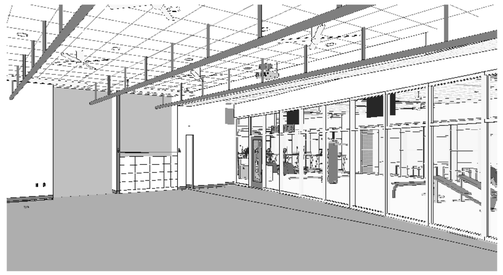
| Rev # | Date | Description |
|---|---|---|

Job # 12475
CAD File
Drawn Author Checked Checker
Date 10.03.2012
Owner # DFCM #12031810

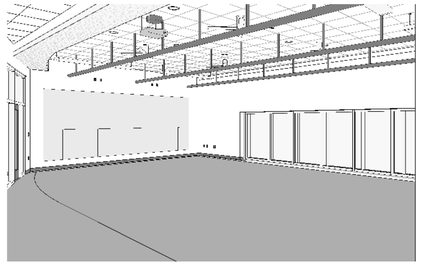
PERSPECTIVE VIEWS

A900

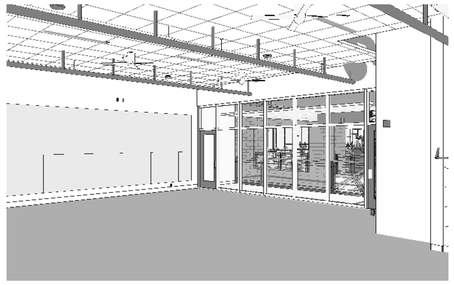
10/3/2012 3:39:54 PM



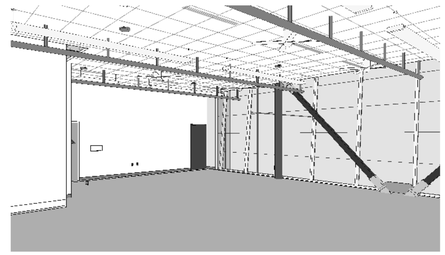
E1 GROUP FITNESS 106 VIEW
SCALE:



E3 GROUP FITNESS 106
SCALE:

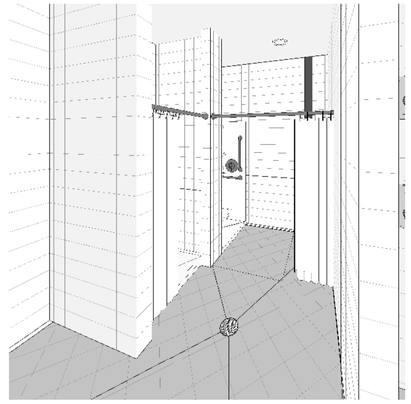


E4 GROUP FITNESS 101 VIEW
SCALE:

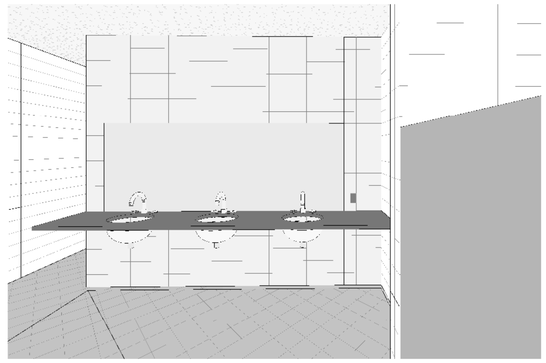


E6 GROUP FITNESS 101
SCALE:

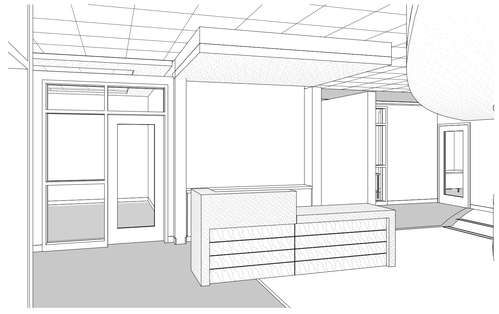
C3 LOCKERS VIEW
SCALE:



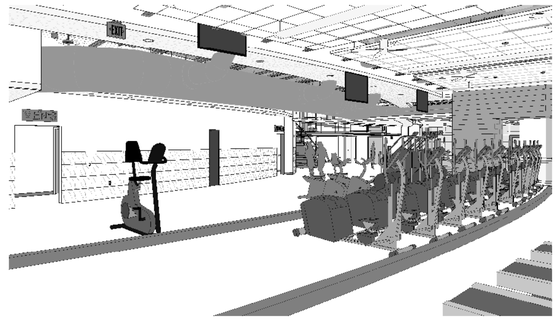
C4 SHOWER VIEW
SCALE:



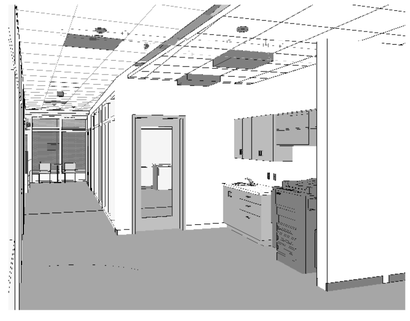
C6 WOMEN'S RESTROOM VIEW
SCALE:



B4 WELLNESS CENTER
SCALE:

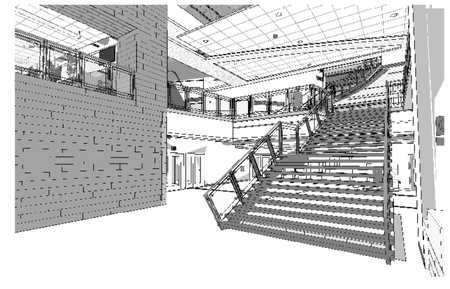


B6 FITNESS EQUIPMENT
SCALE:



A3 OFFICES
SCALE:

A4 CONTROL AREA
SCALE:



A6 LOBBY
SCALE:

VCBO
ARCHITECTURE
VALENTINER
CRANE
BRUNJES
ONYON

LICENSED ARCHITECT
5539
BRENT R. TIPPETS
10-2-12
STATE OF UTAH

VCBO ARCHITECTURE
524 SOUTH 600 EAST
SALT LAKE CITY, UT 84102
Phone: (801) 575-8800
Fax: (801) 531-9850
WWW: www.vcbo.com

DFCM CODE COMPLIANCE STAMP

# Student Activity Center
## Stromberg Addition - BID SET
Weber State University
3750 Harrison Blvd. Ogden, UT 84408

| Rev # | Date | Description |
|---|---|---|

Job # 12475
CAD File
Drawn Author Checked Checker
Date 10.03.2012
Owner # DFCM #12031810

PERSPECTIVE VIEW

A901

10/3/2012 3:41:15 PM

STRUCTURAL NOTES

A. GENERAL

1. THE STRUCTURAL NOTES ARE INTENDED TO COMPLEMENT THE PROJECT SPECIFICATIONS WHICH ARE PART OF THE CONSTRUCTION DOCUMENTS. SPECIFIC NOTES AND DETAILS ON THE DRAWINGS SHALL GOVERN OVER THE STRUCTURAL NOTES AND TYPICAL DETAILS.
2. THESE DRAWINGS (AND, WHERE APPLICABLE, ACCOMPANYING WRITTEN SPECIFICATIONS) ARE THE ONLY CONTRACT DOCUMENTS PROVIDED BY ARW ENGINEERS FOR THE PROJECT REPRESENTED HEREIN. NOTHING IN ANY DIGITAL MODEL OR DIGITAL FILE RELATED TO THIS PROJECT SHALL BE TAKEN TO SUPERSEDE ANY INFORMATION SHOWN IN THESE DRAWINGS (INCLUDING, BUT NOT LIMITED TO, DIMENSIONS, SIZES, ETC).
3. THE ARCHITECTURAL DRAWINGS ARE THE PRIME CONTRACT DRAWINGS. THE STRUCTURAL DRAWINGS ARE SUPPLEMENTARY TO AND MUST BE USED IN CONJUNCTION WITH THE ARCHITECTURAL DRAWINGS AND OTHER CONSULTANTS DRAWINGS. ALL OMISSIONS OR CONFLICTS BETWEEN THE VARIOUS ELEMENTS OF THE WORKING DRAWINGS AND/OR SPECIFICATIONS SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT AND STRUCTURAL ENGINEER BEFORE PROCEEDING WITH ANY WORK INVOLVED. IN CASE OF CONFLICT, FOLLOW THE MOST STRINGENT REQUIREMENT AS DIRECTED BY THE ARCHITECT AT NO ADDITIONAL COST TO THE OWNER.
4. SEE SPECIFICATIONS FOR REQUIRED SUBMITTALS. SUBMITTALS SHALL BE MADE IN A TIMELY MANNER AS INDICATED IN SPECIFICATIONS. REVIEW OF SUBMITTALS BY ARW ENGINEERS IS FOR GENERAL COMPLIANCE ONLY AND IS NOT INTENDED AS APPROVAL. CONTRACTOR IS RESPONSIBLE FOR VERIFYING ALL SIZES, DIMENSIONS, AND ELEVATIONS ON SUBMITTALS AS RELATED TO DESIGN DOCUMENTS. PREPARATION OF SHOP DRAWINGS FOR STRUCTURAL ELEMENTS WILL REQUIRE INFORMATION (I.E. DIMENSIONS, ETC.) FOUND IN THE ARCHITECTURAL, STRUCTURAL, AND OTHER CONSULTANTS DRAWINGS.
5. THE CONTRACTOR SHALL VERIFY ALL CONDITIONS AND DIMENSIONS AT THE SITE. IF ACTUAL CONDITIONS DIFFER FROM THOSE SHOWN ON CONTRACT DOCUMENTS, CONTRACTOR SHALL NOTIFY ARCHITECT PRIOR TO FABRICATION OR CONSTRUCTION OF ANY AFFECTED ELEMENTS.
6. THE CONTRACTOR SHALL COORDINATE AND VERIFY ALL LOCATIONS AND SIZES OF MECHANICAL EQUIPMENT OR OTHER EQUIPMENT BEFORE FABRICATING AND ERECTING STRUCTURAL ELEMENTS. SIZES AND LOCATIONS THAT DIFFER FROM THOSE SHOWN ON THE CONTRACT DOCUMENTS SHALL BE REPORTED TO THE ARCHITECT.
7. THE CONTRACTOR SHALL SUBMIT A WRITTEN REQUEST TO THE ARCHITECT FOR ARCHITECT AND/OR ENGINEER APPROVAL BEFORE PROCEEDING WITH ANY CHANGES, MODIFICATIONS, OR SUBSTITUTIONS.
8. OBSERVATION VISITS TO THE SITE BY ARW ENGINEERS FIELD REPRESENTATIVES SHALL NEITHER BE CONSTRUED AS INSPECTION NOR APPROVAL OF CONSTRUCTION.
9. DURING AND AFTER CONSTRUCTION, BUILDER AND/OR OWNER SHALL KEEP LOADS ON STRUCTURE WITHIN THE LIMITS OF DESIGN LOADS AS NOTED IN THESE DOCUMENTS.
10. TYPICAL OR SIMILAR DETAILS AND SECTIONS SHALL APPLY WHERE SPECIFIC DETAILS ARE NOT SHOWN. TYPICAL OR SIMILAR DETAILS REFER TO THE CONDITION ADDRESSED AND ARE NOT NECESSARILY DETAILS LABELED “TYPICAL” OR “SIMILAR” IN THE PLANS AND DOCUMENTS.
11. DRAWINGS AND DETAILS HAVE BEEN PREPARED WITH THE INTENT TO VISUALLY REPRESENT INFORMATION PROVIDED IN SCALED FORM; HOWEVER CONTRACTOR/SUPPLIERS SHOULD NOT SCALE PLANS OR DETAILS FOR DIMENSIONAL INFORMATION.
12. THE CONTRACTOR SHALL PROVIDE ADEQUATE TEMPORARY SHORING AND BRACING FOR ALL STRUCTURAL ELEMENTS UNTIL THE ENTIRE STRUCTURAL SYSTEM IS COMPLETED. DESIGN OF ALL SHORING AND BRACING IS BY OTHERS AT NO ADDITIONAL COST TO THE OWNER.
13. ENGINEER SHALL NOT BE RESPONSIBLE FOR ACTIVITIES UNDER CONTROL OF THE CONTRACTOR SUCH AS CONSTRUCTION SITE SAFETY, MEANS, METHODS AND SEQUENCING OF CONSTRUCTION. ENGINEER SHALL NOT BE RESPONSIBLE FOR FABRICATION, ERECTION AND CONSTRUCTION REQUIREMENTS AS PRESCRIBED BY OSHA OR OTHER REGULATORY AGENCIES REGARDLESS OF INDICATIONS IN THESE DOCUMENTS.
14. NOTICE OF COPYRIGHT: THESE STRUCTURAL DRAWINGS ARE HEREBY COPYRIGHTED BY ARW ENGINEERS, ALL RIGHTS RESERVED. THESE DOCUMENTS DEFINE A STRUCTURE AND ARE INSTRUMENTS OF SERVICE, FOR ONE USE ONLY. REPRODUCTION AND DISTRIBUTION OF THESE DRAWINGS IS ONLY ALLOWED AS REQUIRED FOR REGULATORY AGENCIES AND FOR CONVEYANCE OF INFORMATION TO PARTIES INVOLVED IN THE CONSTRUCTION OF THIS PROJECT. THESE DOCUMENTS SHALL NOT BE REPRODUCED OR COPIED, IN PART OR WHOLE BY ANY PARTY FOR USE IN PREPARATION OF SHOP DRAWINGS OR OTHER SUBMITTALS.

B. STATEMENT OF SPECIAL INSPECTIONS AND SPECIAL INSPECTIONS

1. THE DESIGNATED SEISMIC/WIND SYSTEMS AND SEISMIC/WIND-FORCE-RESISTING SYSTEMS THAT ARE SUBJECT TO SPECIAL INSPECTIONS IN ACCORDANCE WITH IBC SECTION 1705.1 ARE IDENTIFIED ON THESE DOCUMENTS WITH A CIRCLE “L”. ALL OTHER ITEMS REQUIRING SPECIAL INSPECTION ARE IDENTIFIED IN THE SPECIAL INSPECTION SCHEDULE ON THE ARCHITECTURAL DRAWINGS.
2. SPECIAL INSPECTIONS AND TESTING ARE TO BE PROVIDED AS REQUIRED BY IBC SECTIONS 1704 THROUGH 1708 AND OTHER APPLICABLE SECTIONS OF THE IBC. THE TYPE AND FREQUENCY OF TESTING AND SPECIAL INSPECTIONS SHALL BE AS NOTED IN THE SPECIAL INSPECTION SCHEDULE, JOB SPECIFICATIONS, AND ACCORDANCE WITH IBC SECTION 110 AND CHAPTER 17. CONTRACTOR SHALL COORDINATE AND COOPERATE WITH REQUIRED INSPECTIONS.
3. ALL TESTING AND SPECIAL INSPECTION SHALL BE PROVIDED BY A QUALIFIED INDEPENDENT SPECIAL INSPECTION AGENCY IN ACCORDANCE WITH IBC 1704 AND AS OUTLINED IN THE JOB SPECIFICATIONS. REPORTS OF FINDINGS OR DISCREPANCIES SHALL BE NOTED AND FORWARDED TO THE CONTRACTOR, ARCHITECT, ENGINEERS, AND BUILDING OFFICIAL IN A TIMELY MANNER.
4. STRUCTURAL OBSERVATION VISITS SHALL BE PERFORMED BY A REPRESENTATIVE FROM ARW ENGINEERS IN ACCORDANCE WITH THE CONTRACT AS NEEDED TO OBSERVE THE CONSTRUCTION OF CRITICAL BUILDING ELEMENTS (I.E. FOOTINGS, BRACED FRAMES, MOMENT FRAMES, DRAG STRUTS AND THEIR CONNECTIONS, COLLECTORS, AND ROOF AND FLOOR DIAPHRAGMS). STRUCTURAL OBSERVATION REPORTS FOR EACH VISIT SHALL BE SENT DIRECTLY TO THE ARCHITECT FOR DISTRIBUTION TO THE CONTRACTOR AND BUILDING OFFICIAL. STRUCTURAL OBSERVATION VISITS SHALL NEITHER BE CONSTRUED AS SPECIAL INSPECTION NOR APPROVAL OF COMPLETED CONSTRUCTION.
5. IN ACCORDANCE WITH IBC 1709, THE CONTRACTOR SHALL SUBMIT A WRITTEN CONTRACTOR'S STATEMENT OF RESPONSIBILITY TO THE BUILDING OFFICIAL AND OWNER. THE STATEMENT SHALL BE SUBMITTED PRIOR TO THE CONSTRUCTION OF ANY SEISMIC/WIND-FORCE-RESISTING SYSTEM, DESIGNATED SEISMIC/WIND SYSTEM, OR COMPONENT IDENTIFIED IN THESE DOCUMENTS WITH A CIRCLE “L”.

C. BASIS OF DESIGN

1. GOVERNING BUILDING CODE: INTERNATIONAL BUILDING CODE (IBC) 2009
   OCCUPANCY CATEGORY: III
2. SUSPENDED FLOOR LOADS
   a. LIVE LOAD = 80 PSF
   b. DEAD LOAD = 70 PSF
3. ROOF LOADS
   a. FLAT-ROOF SNOW LOAD, Pf: 32 PSF
      1) GROUND SNOW LOAD, Pg: 45.2 PSF
      2) SNOW EXPOSURE FACTOR, Ce: 1.0
      3) SNOW LOAD IMPORTANCE FACTOR, Is: 1.1
      4) THERMAL FACTOR, Ct: 1.0
   b. LIVE LOAD = 20 PSF
   c. DEAD LOAD = 20 PSF
4. WIND DESIGN
   a. BASIC WIND SPEED (3 SECOND GUST): 90 MPH
   b. WIND IMPORTANCE FACTOR, IW: 1.15
   c. WIND EXPOSURE: C
   d. COMPONENT AND CLADDING DESIGN WIND PRESSURE SHALL BE AS REQUIRED PER ASCE 7-05.
5. SEISMIC DESIGN:
   a. SEISMIC IMPORTANCE FACTOR, IE: 1.25
   b. SITE CLASS: D
   c. MAPPED SPECTRAL RESPONSE ACCELERATIONS: SS = 1.39 , S1 = 0.58
   d. SPECTRAL RESPONSE COEFFICIENTS: SDS = 0.93 , SD1 = 0.58
   e. SEISMIC DESIGN CATEGORY: D
   f. BASIC SEISMIC-FORCE-RESISTING SYSTEM: SPECIAL STEEL MOMENT FRAMES(N-S), SPECIAL REINFORCED CONCRETE SHEAR WALLS AND BRACED FRAMES(E-W).
   g. DESIGN BASE SHEAR: V = Cs x W
   h. RESPONSE MODIFICATION FACTOR, R: 8 (N-S), 6 (E-W)
   i. ANALYSIS PROCEDURE: MODAL RESPONSE SPECTRUM ANALYSIS

D. FOUNDATION

1. DESIGN SOIL PRESSURE: 4500 PSF (WITH RAMMED AGGREGATE PIERS)
2. SOILS REPORT BY: GSH GEOTECHNICAL, INC.
   REPORT #: 0068-015-12
   DATED: MAY 21, 2012
3. SOIL PREPARATION UNDER FOOTINGS AND SLABS-ON-GRADE SHALL BE IN ACCORDANCE WITH THE SOILS REPORT.
4. TOP OF FOOTING ELEVATIONS SHOWN ON THE FOOTING AND FOUNDATION PLAN ARE BASED ON PRELIMINARY GRADING INFORMATION AND MUST BE VERIFIED PRIOR TO CONSTRUCTION. STEPS WHERE SHOWN ARE AT APPROXIMATE LOCATIONS. ALL EXTERIOR FOOTINGS MUST BEAR A MINIMUM OF 30 INCHES BELOW LOWEST ADJACENT FINAL GRADE.
5. ALL WALLS (EXCEPT CANTILEVERED RETAINING WALLS) SHALL BE ADEQUATELY BRACED AGAINST LATERAL MOVEMENT PRIOR TO BACKFILLING. DESIGN AND ERECTION OF BRACING/SHORING IS THE RESPONSIBILITY OF THE GENERAL CONTRACTOR. BRACING SHALL REMAIN IN PLACE UNTIL SUPPORTING STRUCTURAL ELEMENTS ARE IN PLACE AND HAVE ATTAINED FULL STRENGTH.
6. UNLESS NOTED OTHERWISE, ALL FOOTINGS AT COLUMNS TO BE CENTERED BELOW COLUMNS.
7. UNLESS NOTED OTHERWISE, ALL FOOTINGS SHALL HAVE VERTICAL FACES FORMED WITH STANDARD FORMING MATERIALS (WOOD, METAL, ETC.). WITH PRIOR APPROVAL OF ARCHITECT AND ENGINEER, CONCRETE FOR FOOTINGS CAN BE PLACED IN EXCAVATED “SOIL” FORMS PROVIDED THAT THE DIMENSIONS ARE INCREASED 3” ON EACH SIDE.

E. CONCRETE

1. ALL CONCRETE MIX DESIGNS SHALL COMPLY WITH THE PROJECT SPECIFICATIONS AND THE REQUIREMENTS LISTED BELOW:
   a. FOOTINGS, GRADE BEAMS:
      1) 28 DAY COMPRESSIVE STRENGTH: 3000 PSI
      2) MAXIMUM W/C RATIO: 0.50
      3) MAXIMUM AGGREGATE SIZE: 1”
   b. FOUNDATION WALLS:
      4) 28 DAY COMPRESSIVE STRENGTH: 4500 PSI
      5) MAXIMUM W/C RATIO: 0.50
      6) MAXIMUM AGGREGATE SIZE: 1”
      7) AIR CONTENT:4.5%
   c. RETAINING WALLS, EXTERIOR SLABS (DOCKS, SHEAR WALLS, ETC.):
      1) 28 DAY COMPRESSIVE STRENGTH: 4500 PSI
      2) MAXIMUM W/C RATIO: 0.45
      3) MAXIMUM AGGREGATE SIZE: 1”
      4) AIR CONTENT:6%
   d. INTERIOR SLABS ON GRADE:
      1) 28 DAY COMPRESSIVE STRENGTH: 3000 PSI
   e. INTERIOR SUSPENDED SLABS:
      1) 28 DAY COMPRESSIVE STRENGTH: 3000 PSI
2. WATER USED IN MIXING CONCRETE SHALL CONFORM TO ASTM C1602.
3. NO PIPES, DUCTS, SLEEVES, ETC. SHALL BE PLACED IN STRUCTURAL CONCRETE UNLESS SPECIFICALLY DETAILED OR APPROVED BY THE STRUCTURAL ENGINEER. NO ALUMINUM PRODUCTS SHALL BE EMBEDDED IN CONCRETE. PENETRATIONS THRU STRUCTURAL CONCRETE ELEMENTS MUST BE APPROVED BY THE ENGINEER AND SHALL BE BUILT INTO THE ELEMENT PRIOR TO CONCRETE PLACEMENT.
4. REFER TO ARCHITECTURAL DRAWINGS FOR MOLDS, GROOVES, ORNAMENTS, ETC. TO BE CAST IN TO CONCRETE, AND FOR EXTENT AND LOCATION OF DEPRESSIONS, CURBS, RAMPS, ETC.
5. UNLESS NOTED OTHERWISE, MINIMUM REINFORCING IN ALL CONCRETE FOUNDATION WALLS SHALL BE AS FOLLOWS:

| THICKNESS | TOP & BOTTOM BARS | VERTICAL | HORIZONTAL |
|---|---|---|---|
| 8” | (2) #5 | #4 AT 18”O.C. | #4 AT 12”O.C. |
| 14” | (2) #5 | #4 AT 18”O.C. EA FACE | #4 AT 14”O.C. EA FACE |
| 34-3/4” | (4) #5 | #6 AT 16”O.C. EA FACE | #7 AT 12”O.C. EA FACE W/ #3 CROSS TIES @ 16"O.C. HORIZ. AND 12"O.C. VERT. |

6. UNLESS NOTED OTHERWISE, CONCRETE SLABS ON EARTH SHALL BE REINFORCED AS FOLLOWS:
   4” THICK - UNREINFORCED
7. UNLESS NOTED OTHERWISE, FOR OPENINGS LARGER THAN 12” IN ANY DIRECTION IN CONCRETE WALLS ADD (2) #5 BARS ALL SIDES IN ADDITION TO REGULAR WALL REINFORCING AND EXTEND 24” EACH WAY BEYOND OPENING. WHERE 24” IS NOT AVAILABLE, EXTEND BARS AS FAR AS POSSIBLE AND TERMINATE WITH A STANDARD HOOK.
8. CONSTRUCTION JOINTS NOT SHOWN ON THE PLANS SHALL BE MADE AND LOCATED SO AS TO NOT IMPAIR THE STRENGTH OF THE STRUCTURE AND AS APPROVED BY THE STRUCTURAL ENGINEER. PROVIDE 2 X 4 (SHAPED) KEYWAY IN ALL VERTICAL AND HORIZONTAL JOINTS UNLESS NOTED OR DETAILED OTHERWISE. ALL STEEL REINFORCING SHALL BE CONTINUOUS THROUGH COLD JOINTS UNLESS NOTED OTHERWISE. SEE TYPICAL DETAILS FOR COLD/CONSTRUCTION JOINTS FOR SLABS ON GRADE.

F. ANCHOR BOLTS/EMBEDDED BOLTS

1. ALL ANCHOR BOLTS SHALL HAVE ASTM A-563 HEAVY HEX NUT AND ASTM F-436 WASHERS AT STANDARD OR OVERSIZED HOLES PER AISC SPECIFICATION TABLE J3.3. WHERE HOLE SIZES DO NOT COMPLY WITH THE LIMITATIONS FOR OVERSIZED HOLES THE STRUCTURAL ENGINEER SHALL BE NOTIFIED TO DETERMINE STEEL PLATE WASHER REQUIREMENTS. ANCHOR BOLTS SHALL COMPLY WITH THE FOLLOWING:
   a. AT BRACED FRAMES & MOMENT RESISTING FRAMES - ASTM F1554 GRADE 105 HEADED BOLTS. (ASTM A449 THREADED ROD MAY BE USED WITH DOUBLE NUT AND WASHER.)
   b. AT ALL OTHER ANCHOR BOLTS (UNLESS NOTED OTHERWISE) - ASTM F1554 GRADE 36 HEADED BOLTS. (ASTM A36 THREADED ROD MAY BE USED WITH DOUBLE NUT AND WASHER.)
2. EMBEDDED BOLTS IN MASONRY SHALL BE (UNLESS NOTED OTHERWISE) ASTM A-307 GRADE HEADED BOLTS.
3. SEE TYPICAL ANCHOR BOLT DETAIL FOR DEFINITIONS OF EMBEDMENT LENGTH, ETC.
4. FURNISH TEMPLATES AND OTHER DEVICES AS NECESSARY FOR PRESETTING ALL BOLTS PRIOR TO PLACING CONCRETE AND/OR GROUT.
5. IF THREADED RODS ARE USED AS PERMITTED ABOVE, THEY SHALL BE CLEAR OF SOIL AND DIRT.
6. WHERE REQUIRED FOR ERECTION, HOLES LARGER THAN OVERSIZED MAY BE PERMITTED WITH THE USE OF STEEL PLATE WASHERS AT THE DISCRETION OF THE STRUCTURAL ENGINEER.

G. EPOXY/MECHANICAL ANCHORS

1. UNLESS NOTED OTHERWISE, ALL EPOXY ANCHORS INTO CONCRETE SHALL BE HILTI HIT-RE 500-SD OR SIMPSON SET XP EPOXY. INSTALL ANCHORS IN ACCORDANCE WITH A CURRENT ICC REPORT.
2. UNLESS NOTED OTHERWISE, ALL EPOXY ANCHORS INTO MASONRY SHALL BE HILTI HIT-HY150 EPOXY OR SIMPSON SET EPOXY. INSTALL ANCHORS IN ACCORDANCE WITH A CURRENT ICC REPORT.
3. UNLESS NOTED OTHERWISE, ALL EXPANSION OR WEDGE ANCHORS INTO CONCRETE SHALL BE HILTI KWIK BOLT TZ, POWERS WEDGE BOLT, OR SIMPSON STRONG-BOLT OR APPROVED EQUAL. INSTALL ANCHORS IN ACCORDANCE WITH A CURRENT ICC REPORT.
4. UNLESS NOTED OTHER WISE, ALL EXPANSION OR WEDGE ANCHORS INTO MASONRY SHALL BE HILTI SLEEVE ANCHORS OR RAMSET/RED HEAD DYNABOLT SLEEVE ANCHORS. INSTALL ANCHORS IN ACCORDANCE WITH CURRENT ICC REPORT.
5. ALL MASONRY CELLS IN WHICH ANCHORS ARE INSTALLED SHALL BE SOLID GROUTED.
6. THE TESTING LABORATORY WILL PERFORM VISUAL INSPECTION OF ANCHORS AND DOWELS AS SPECIFIED IN THE SPECIAL INSPECTION SCHEDULE. TENSION TESTING CAN BE REQUIRED AT THE DIRECTION OF THE STRUCTURAL ENGINEER OF RECORD OR THE SPECIAL INSPECTOR.
7. IF REINFORCEMENT IS ENCOUNTERED DURING DRILLING, ABANDON THAT HOLE AND SHIFT THE ANCHOR LOCATION TO AVOID THE REINFORCEMENT. PROVIDE A MINIMUM SPACE OF (2) ANCHOR HOLE DIAMETERS OR 1 INCH, WHICH EVER IS LARGER, OF SOUND CONCRETE/MASONRY BETWEEN THE ANCHOR AND THE ABANDONED HOLE. FILL THE ABANDONED HOLE WITH NON-SHRINK GROUT. AT CONTRACTORS OPTION, LOCATE EXISTING REINFORCMENT PRIOR TO DRILLING/CORING. IF THE ANCHOR OR DOWEL CANNOT BE SHIFTED AS NOTED ABOVE, THE ENGINEER WILL DETERMINE A NEW LOCATION.
8. LOCATE REINFORCEMENT AND CONFIRM FINAL ANCHOR LOCATIONS PRIOR TO FABRICATING PLATES, MEMBERS, OR OTHER STEEL ASSEMBLIES ATTACHED WITH MECHANICAL ANCHORS

H. SUSPENDED CONCRETE SLABS / SLABS ON METAL DECK

1. UNLESS NOTED OTHERWISE, ALL CONCRETE SLABS ON METAL DECK SHALL BE 6-1/2” TOTAL THICKNESS NORMAL WEIGHT CONCRETE WITH A WEIGHT LESS THAN 145 POUNDS PER CUBIC FOOT, REINFORCED WITH FIBERMESH. REINFORCING STEEL SHALL BE CHAIRED TO 1” TOP COVER AT ALL BEAM LOCATIONS. WHERE THE SLAB CONSTRUCTION IS USED TO OBTAIN A UL FIRE RATING, THE PROPOSED FIBER MESH SHALL HAVE UL ACCEPTANCE AS AN APPROVED ALTERNATIVE TO WELDED WIRE FABRIC.
2. AROUND OPENINGS IN SUSPENDED CONCRETE SLABS, ADD REINFORCING BARS EQUIVALENT TO BARS CUT BY OPENING WITH HALF ON EACH SIDE OF OPENING. BARS PARALLEL TO PRINCIPAL REINFORCING SHALL RUN FULL LENGTH OF SPAN. BARS PARALLEL TO TEMPERATURE REINFORCING SHALL RUN 24” BEYOND OPENING.
3. ALL OPENINGS GREATER THAN 6” IN ANY DIRECTION IN CONCRETE FLOOR SLABS ON METAL DECK SHALL BE FRAMED ON 4 SIDES WITH STEEL ANGLES OR BENT PLATES (SEE TYPICAL DETAIL) UNLESS NOTED OTHERWISE.
4. EVERY EFFORT SHALL BE MADE TO PROVIDE A LEVEL FINISHED FLOOR WHILE MAINTAINING THE MINIMUM INDICATED SLAB THICKNESS.
5. CONTROL JOINTS IN SUSPENDED CONCRETE SLABS AND CONCRETE SLABS ON DECK SHALL NOT BE USED UNLESS SPECIFICALLY APPROVED AND DETAILED BY THE ENGINEER.
6. SEE TYPICAL DETAILS WHEN SLABS ARE MADE COMPOSITE WITH STEEL BEAMS.
7. CONDUIT IS NOT ALLOWED IN CONCRETE SLABS ON METAL DECK IF THE FLOOR SLAB CONSTRUCTION IS USED TO OBTAIN A FIRE RATING.
8. CONTRACTOR SHALL PROVIDE ALL TEMPORARY SHORING, BRACING, AND GUYING AS REQUIRED DURING ERECTION AND PLACEMENT OF SUSPENDED CONCRETE SLABS ON METAL DECK.

I. REINFORCING STEEL

1. REINFORCING BAR STRENGTH REQUIREMENTS:
   a. ALL REINFORCING BARS EXCEPT AS INDICATED IN NOTE b, SHALL CONFORM TO ASTM STANDARD A-615 GRADE 60 AND ALL WELDED WIRE FABRIC SHALL CONFORM TO ASTM STANDARD A-185 AND SHALL BE SUPPLIED IN FLAT SHEETS. ADEQUATELY TIE AND SUPPORT ALL REINFORCING STEEL AS SPECIFIED BY ACI 117, TO MAINTAIN EXACT REQUIRED POSITION.
   b. ALL REINFORCING BARS FOR SPECIAL REINFORCED CONCRETE SHEARWALLS AS INDICATED IN THE LATERAL FORCE RESISTING ELEMENT KEY PLAN SHALL CONFORM TO ASTM A706 GR. 60. ASTM GR. 60 IS PERMITTED IF THE ACTUAL YIELD STRENGTH BASED ON MILL TESTS DOES NOT EXCEED THE ACTUAL Fy BY MORE THAN 18,000 PSI AND THE RATIO OF THE ACTUAL TENSILE STRENGTH TO THE ACTUAL YIELD STRENGTH IS NOT LESS THAN 1.25. MILL TESTS REPORTS SHALL BE SUBMITTED TO THE ENGINEER FOR REVIEW.
2. HEADED SHEAR STUD ASSEMBLIES SHALL CONFORM TO ASTM A1044.
3. STEEL DISCONTINUOUS FIBER REINFORCEMENT SHALL BE DEFORMED AND CONFORM TO ASTM A820 AND SHALL HAVE A LENGTH TO DIAMETER RATIO NOT SMALLER THAN 50 AND NOT GREATER THAN 100.
4. HEADED DEFORMED BARS SHALL CONFORM TO ASTM A970. OBSTRUCTIONS OR INTERRUPTIONS OF THE BAR DEFORMATIONS, IF ANY, SHALL NOT EXTEND MORE THAN 2 BAR DIAMETERS FROM THE BEARING FACE OF THE HEAD.
5. ALL FIELD BENT DOWELS SHALL BE GRADE 40 WITH SPACING INDICATED REDUCED BY 1/3.
6. UNLESS NOTED OTHERWISE, REINFORCEMENT SHALL HAVE THE FOLLOWING CONCRETE COVERAGE:
   a. CAST AGAINST AND PERMANENTLY EXPOSED TO EARTH ….. 3”
   b. EXPOSED TO EARTH OR WEATHER:
      1) #6 & LARGER ….. 2”
      2) #5 & SMALLER …..1-1/2”
   c. NOT EXPOSED TO WEATHER OR EARTH:
      1) SLABS, WALLS, JOISTS, #11 & SMALLER ….. 3/4”
      2) BEAMS, COLUMNS: MAIN REINFORCING OR TIES ….. 1-1/2”
   d. SLAB ON GRADE:
      1) PLACE REINFORCING AT CENTER OF SLAB UNLESS INDICATED OTHERWISE.
7. EXCEPT WHERE NOTED ON PLANS OR DETAILS CONTINUOUS REINFORCEMENT SHALL BE SPLICED AT POINTS OF MINIMUM STRESS BY LAPPING PER THE REBAR LAP SCHEDULE.
8. REINFORCING STEEL MAY BE SPLICED WITH MECHANICAL COUPLERS THAT HAVE A TENSION CAPACITY OF AT LEAST 125% OF THE STRENGTH OF THE BAR. MECHANICAL COUPLERS SHALL BE A POSITIVE CONNECTING TYPE COUPLER, AND SHALL BE INSTALLED IN ACCORDANCE WITH AN APPROVED ICC RESEARCH REPORT. WHERE THESE ARE USED, SPLICES ON ADJACENT BARS SHALL BE STAGGERED AT LEAST 24 INCHES ALONG THE LENGTH OF THE BARS.
9. ALL VERTICAL REINFORCING IN STRUCTURAL ELEMENTS ABOVE SHALL BE SPLICED WITH MATCHING DOWELS EMBEDDED WITHIN THE FOOTINGS OR STRUCTURE BELOW. SPLICE LENGTHS SHALL COMPLY WITH REBAR LAP SCHEDULE. DOWELS INTO FOOTINGS SHALL TERMINATE WITH A STANDARD HOOK, AND SHALL EXTEND TO WITHIN 4” OF THE BOTTOM OF THE FOOTING, BUT NEED NOT EXTEND MORE THAN 20” INTO FOOTING. FOR MASONRY CONSTRUCTION SEE STRUCTURAL NOTE M.6.A.
10. DO NOT WELD REINFORCING EXCEPT AS NOTED ON PLANS, WHERE REINFORCING IS WELDED, USE ASTM A-706 REINFORCING.
11. REINFORCING BARS, TIES, AND TENDONS SHALL BE SUPPORTED BY NYLON CONES, PLASTIC-COATED TIE-WIRES, OR PLASTIC-COATED CHAIRS. REINFORCING IN FOOTINGS IS PERMITTED TO BE SUPPORTED ON CONCRETE DOBIES.
12. UNLESS NOTED OTHERWISE, HOOKS, STIRRUPS, TIES, AND OTHER BENDS IN REINFORCING STEEL SHALL MEET THE STANDARDS SET FORTH IN ACI 318/318R-08. UNLESS OTHERWISE PERMITTED BY THE ENGINEER, ALL REINFORCEMENT SHALL BE BENT COLD. REINFORCEMENT PARTIALLY EMBEDDED IN CONCRETE SHALL NOT BE FIELD BENT, EXCEPT AS SHOWN ON THESE DRAWINGS OR OTHERWISE PERMITTED BY THE ENGINEER.
13. UNLESS SPECIFICALLY NOTED AND/OR DETAILED IN THE STRUCTURAL DRAWINGS CONDUIT SHALL NOT BE IN CONTACT WITH REINFORCING STEEL.

J. STRUCTURAL STEEL

1. STRUCTURAL STEEL SHALL BE FABRICATED AND ERECTED IN ACCORDANCE WITH THE LATEST EDITION OF THE FOLLOWING:
   a. ANSI/AISC 360-05 “SPECIFICATION FOR STRUCTURAL STEEL BUILDINGS”, WITH “COMMENTARY” AND “SUPPLEMENTS” AS REQUIRED BY BUILDING CODE.
   b. AISC 303-05 “CODE OF STANDARD PRACTICE FOR STEEL BUILDINGS AND BRIDGES” EXCLUDING THE FOLLOWING SECTIONS: 4.4, 4.4.1, AND 4.4.2.
   c. AISI “SPECIFICATIONS FOR THE DESIGN OF COLD-FORMED STEEL STRUCTURAL MEMBERS”.
   d. AISC “SPECIFICATION FOR STRUCTURAL JOINTS USING ASTM A325 OR A490 BOLTS”.
   e. AWS D1.1 AND 1.3, “STRUCTURAL WELDING CODE” (EXCEPT SPECIFIC ITEMS DO NOT APPLY IF THEY CONFLICT WITH AISC).
   f. ANSI/AISC 341-05 “SEISMIC PROVISIONS FOR STRUCTURAL STEEL BUILDINGS”.
2. STRUCTURAL STEEL SHALL COMPLY WITH THE FOLLOWING:
   a. WIDE FLANGE SHAPES - ASTM A992
   b. OTHER SHAPES AND PLATES - ASTM A-36 (UNO) - PLATES ≥ 1-1/2" - ASTM A572-50
   c. TUBES (TS) AND HOLLOW STRUCTURAL SECTIONS (HSS) - ASTM A-500, GRADE B (SQUARE AND RECTANGULAR SHAPES FY = 46 KSI AND ROUND SHAPES FY = 42 KSI)
   d. PIPE COLUMNS - ASTM A-53, GRADE B TYPE E OR S
   e. STAINLESS STEEL SHAPES, PLATES, AND FASTENERS - ASTM 304
   f. DEFORMED BAR ANCHORS (DBA) - ASTM A-496, WELDED IN ACCORDANCE WITH AWS D1.1
   g. HEADED STUD ANCHORS (HSA) - ASTM A-108, GRADE 1015 STEEL AND WELDED IN ACCORDANCE WITH AWS D1.1 FOR TYPE “B”. USE 3/4” DIAMETER STUDS, UNLESS NOTED OTHERWISE.
   h. THREADED ROD - ASTM A-449.
3. CONNECTIONS SHALL COMPLY WITH THE STRUCTURAL DRAWINGS UNLESS WRITTEN APPROVAL TO CHANGE IS GIVEN BY THE STRUCTURAL ENGINEER.
4. ALL SHOP FABRICATIONS SHALL BE PERFORMED BY AN APPROVED FABRICATOR IN ACCORDANCE WITH SECTIONS 1702 AND 1704 OF THE IBC OR WITH SHOP INSPECTION BY AN INDEPENDENT AGENCY IN ACCORDANCE WITH SECTION 1704.2 OF THE IBC.
5. WELDING
   a. ALL WELDING AND CUTTING SHALL BE PERFORMED BY AWS CERTIFIED WELDERS IN ACCORDANCE WITH ANSI/AWS D1.1 (LATEST EDITION).
   b. USE E-70XX ELECTRODES UNLESS NOTED OTHERWISE. E-60XX MAY BE USED FOR WELDING STEEL DECKS.
   c. ALL INTERSECTING STEEL SHAPES WHICH ARE NOT CONNECTED WITH BOLTS SHALL BE WELDED TOGETHER WITH A FILLET WELD ALL AROUND UNLESS NOTED OTHERWISE. WHERE WELD SIZES ARE NOT SHOWN USE THE FOLLOWING:
      1) WHERE ALL CONNECTED PARTS ARE THICKER THAN 1/4”, WELD IS 1/16” LESS THAN THE THICKNESS OF THE THINNEST PART.
      2) WHERE ANY OF THE CONNECTED PARTS IS LESS THAN 1/4” THICK, WELD IS SAME AS THICKNESS OF THE THINNEST PART.
   d. WELDING OF HSA'S AND DBA'S SHALL CONFORM TO THE MANUFACTURER'S SPECIFICATIONS.
   e. WHEREVER POSSIBLE, WELDS SHALL BE SHOP WELDS. SPECIAL CONSIDERATIONS, SUCH AS ITEMS WHICH MAY NEED ADJUSTMENT AT THE SITE, REQUIRE THAT SOME WELDS BE FIELD WELDS. WHERE QUESTIONS OR DISCREPANCIES OCCUR THE CONTRACTOR SHALL COORDINATE THE WORK BETWEEN THE SHOP FABRICATOR AND THE STEEL ERECTOR.
6. BOLTING
   a. UNLESS NOTED OTHERWISE, ALL STRUCTURAL STEEL TO STEEL CONNECTIONS SHALL USE HIGH STRENGTH BOLTS CONFORMING TO ASTM A-325.
   b. UNLESS NOTED OTHERWISE, ALL BOLTING IS CLASSIFIED AS NON-SLIP CRITICAL BEARING TYPE CONNECTIONS WITH THREADS INCLUDED IN SHEAR PLANE. TIGHTEN BOLTS TO A SNUG TIGHT CONDITION, WITH ALL PLIES OF THE JOINT IN FIRM CONTACT.
   c. AT OVERSIZED AND SLOTTED HOLES, WASHERS SHALL CONFORM TO ASTM F-436 AND COMPLETELY COVER THE HOLE.
   d. WHERE A STEEL BEAM TO BEAM CONNECTION IS NOT SHOWN, PROVIDE AN AISC STANDARD FRAMED CONNECTION SIZED FOR 1/2 OF THE TOTAL LOAD CAPACITY OF THE BEAM FOR THE SPAN AND STEEL SPECIFIED.
7. METAL DECKING
   a. UNLESS NOTED OTHERWISE, METAL ROOF DECK SHALL BE 22 GAUGE TYPE B PAINTED STEEL DECK. SEE ROOF DECK SCHEDULE FOR ATTACHMENTS.
   b. UNLESS NOTED OTHERWISE, METAL FLOOR DECK SHALL BE 20 GAUGE TYPE W2 COMPOSITE, PAINTED, UNVENTED STEEL DECK. UNLESS NOTED OTHERWISE, ATTACH TO SUPPORTING STRUCTURE WITH 3/4” DIAMETER WELDS AT 24“ MAXIMUM SPACING. ATTACH SIDE SEAMS WITH BUTTON PUNCH OR SIDE SEAM SCREWS AT 12” MAXIMUM SPACING. AN HSA FIELD-WELDED THROUGH THE DECK MAY SUBSTITUTE FOR A PUDDLE WELD.
   c. ALL DECK SHALL BE CONTINUOUS OVER 3-SPANS. WHERE NOT POSSIBLE, THE DECK SUPPLIER/CONTRACTOR SHALL PROVIDE HEAVIER GAUGE DECK AS NEEDED TO PROVIDE THE EQUIVALENT PERFORMANCE OF THE SPECIFIED DECK WITH 3-SPAN CONTINUITY.
   d. SEE TYPICAL DETAILS FOR SUPPORT OF DECK AT OPENINGS.
   e. PROVIDE L2”x2”x3/16” FOR DECK SUPPORT AT LOCATIONS WHERE COLUMNS EXTEND THROUGH DECK.
   f. PAINTED STEEL DECK SHALL CONFORM TO ASTM A1008 AND GALVANIZED STEEL DECK SHALL CONFORM TO A653 GRADE G60.
   g. BUILDING ELEMENTS MAY BE SUPPORTED BY HANGING DIRECTLY FROM METAL DECKING, PROVIDED THAT THE TOTAL WEIGHT PER CONNECTION IS LESS THAN 50 LBS AND THAT THE ATTACHMENT TO THE DECKING IS DISTRIBUTED ACROSS AT LEAST TWO RIBS AND SPACED AT LEAST 6 FEET APART IN ANY DIRECTION.
8. ALL COLUMNS ADJACENT TO OR EMBEDDED IN MASONRY SHALL HAVE (2) 1/2” DIAMETER X 24” LONG DBA EXTENDING EACH WAY AT ALL WALL BOND BEAMS.
9. UNLESS NOTED OTHERWISE, WHERE STEEL BEAMS SUPPORT WOOD FRAMING OR WOOD SHEATHING, PROVIDE A CONTINUOUS DOUBLE 2x OR SINGLE 3x NAILER PLATE ON THE TOP OF THE BEAM THAT EXTENDS AT LEAST THE FULL WIDTH OF THE BEAM FLANGE. ATTACH NAILER PLATES TO WIDE-FLANGE BEAMS WITH 1/2” DIAMETER THRU BOLTS AT 24”O.C. - STAGGERED. COUNTER-SINK HEAD OF BOLTS INTO TOP OF NAILER PLATE TO PROVIDE A FLUSH BEARING SURFACE.
10. ALL COLUMNS ADJACENT TO OR EMBEDDED IN WOOD STUD WALLS SHALL HAVE (1) 1/2” DIAMETER X 3-1/2” THREADED STEEL ROD SHOP-WELDED TO THE FACE OF THE COLUMN AT 24”O.C. AND EXTENDING EACH WAY INTO THE ADJACENT STUD WALLS. ATTACH ADJACENT WOOD WALL STUDS TO STEEL COLUMN WITH STANDARD NUT AND WASHER AS REQUIRED.
11. PROVIDE FULL DEPTH WEB STIFFENER PLATES AT EACH SIDE OF STEEL BEAMS AT ALL BEARING (EXCEPT SECONDARY FRAMING) POINTS. STIFFENER PLATES SHALL BE THICKNESS SHOWN UNLESS NOTED OTHERWISE AND SHALL BE WELDED BOTH SIDES WITH FILLET WELDS ALL AROUND.

| FLANGE WIDTH | STIFFENER THICKNESS | WELD THICKNESS |
|---|---|---|
| < 8 1/4” | 1/4” | 3/16” |
| 8 1/4” < BF < 12 1/2” | 3/8” | 1/4” |
| 12 1/2” < BF < 18” | 1/2” | 5/16” |

12. FABRICATORS AND SUPPLIERS SHALL COORDINATE PAINT/FINISHES WITH REQUIREMENTS FOR DIRECT APPLIED INSULATION, FIREPROOFING, ETC. AS NOTED IN THE PROJECT SPECIFICATIONS.
13. WHEN DETERMINING THE FIRE RESISTANCE OF ASSEMBLIES, USE THE FOLLOWING: STEEL ROOF MEMBERS ARE CONSIDERED UN-RESTRAINED AND STEEL FLOOR FRAMING MEMBERS ARE CONSIDERED RESTRAINED.
14. UNLESS NOTED OTHERWISE, ALL HORIZONTAL FRAMING MEMBERS SHALL BE ERECTED WITH THE NATURAL CROWN UP.

STRUCTURAL NOTES CONTINUED ON S002

LEGEND OF SYMBOLS AND ABBREVIATIONS

AB = ANCHOR BOLT
ABV = ABOVE
ARCH = ARCHITECT
BLW = BELOW
BN = BOUNDARY NAILING
CL = CENTER LINE
CMU = CONCRETE MASONRY UNIT
COL = COLUMN
CONC = CONCRETE
DBA = DEFORMED BAR ANCHOR
DBE = DECK BEARING ELEVATION
ELEV = ELEVATION
EN = EDGE NAILING
FDN = FOUNDATION
FTG = FOOTING
FFE = FINISHED FLOOR ELEVATION
HSA = HEADED STUD ANCHOR
JBE = JOIST BEARING ELEVATION
MIN = MINIMUM
MAX = MAXIMUM
MECH = MECHANICAL
MEZZ = MEZZANINE
OAE = OR APPROVED EQUAL
OPP = OPPOSITE
PAF = POWDER ACTUATED FASTENER
PL = PLATE
REINF = REINFORCING
REQ = REQUIRED
SIM = SIMILAR
TOF = TOP OF FOOTING
TOB = TOP OF BEAM ELEVATION
TOM = TOP OF MASONRY ELEVATION
TOC = TOP OF CONCRETE SLAB
TOG = TOP OF GIRDER ELEVATION
TOS = TOP OF STEEL ELEVATION
TYP = TYPICAL
UNO = UNLESS NOTED OTHERWISE
NS, FS = NEAR SIDE, FARSIDE

FOOTING MARK
TOP OF FOOTING ELEV.
SECTION MARK
SHEET NUMBER
TOP OF FOUNDATION WALL OR COLUMN PIER ELEV.
SHEAR WALL - SEE SCHEDULE
MIN. LENGTH OF SHEAR WALL
S —— S FOOTING STEP
MASONRY WALL
DEPRESS FDN./WALL AND POUR FLOOR SLAB OVER
MASONRY BEAM
CONCRETE BEAM
WOOD BEAM
ELEVATION
HD POST "A" — HD - SIMPSON HOLD DOWN SIZE POST - SIZE OF END POST CONNECTED TO HOLD DOWN
"A" - PLAN CONFIGURATION AT HOLD DOWN AT FOUNDATION
L — FRAMING ANGLE SEE TYPICAL DETAIL
C — FRAMING CHANNEL SEE TYPICAL DETAIL
(L) — ITEMS, DETAILS, & SYSTEMS WHICH ARE PART OF THE LATERAL FORCE RESISTING SYSTEM.
MOMENT RESISTING CONNECTIONS - SEE DETAIL
MOMENT RESISTING CANTILEVER CONNECTIONS - SEE DETAIL
KB — KICKER BRACE
CONCRETE SLAB ON METAL DECK INDICATING THE SPAN DIRECTION OF THE DECK

Structural Sheet Index

| SHEET NUMBER | SHEET NAME |
|---|---|
| S001 | STRUCTURAL NOTES |
| S002 | STRUCTURAL NOTES & SCHEDULES |
| S003 | SCHEDULES |
| S110 | OVERALL FOOTING AND FOUNDATION PLAN |
| S111 | AREA A FOOTING AND FOUNDATION PLAN |
| S112 | AREA B FOOTING AND FOUNDATION PLAN |
| S113 | AREA C FOOTING AND FOUNDATION PLAN |
| S120 | OVERALL SECOND FLOOR FRAMING PLAN |
| S122 | AREA B SECOND FLOOR FRAMING PLAN |
| S123 | AREA C SECOND FLOOR FRAMING PLAN |
| S130 | OVERALL RUNNING TRACK AND MEZZANINE FRAMING PLAN |
| S131 | AREA A RUNNING TRACK AND MEZZ. FRAMING PLAN |
| S132 | AREA B RUNNING TRACK AND MEZZ. FRAMING PLAN |
| S133 | AREA C FRAMING PLAN |
| S140 | OVERALL ROOF FRAMING PLAN |
| S141 | AREA A EXISTING ROOF TRACK SUPPORT PLAN |
| S141.1 | AREA A EXISTING ROOF UPGRADE PLAN |
| S142 | AREA B EXISTING ROOF TRACK SUPPORT PLAN |
| S142.1 | AREA B EXISTING ROOF UPGRADE PLAN |
| S143 | AREA C LOW ROOF FRAMING PLAN |
| S143.1 | AREA C HIGH ROOF FRAMING PLAN |
| S201 | BRACED FRAME ELEVATIONS |
| S202 | BRIDGE DETAILS |
| S203 | TRUSS UPGRADE ELEVATIONS |
| S204 | MOMENT FRAME ELEVATIONS |
| S205 | EXISTING WALL ELEVATIONS |
| S206 | METAL STUD FRAMING ELEVATIONS |
| S401 | TYPICAL DETAILS |
| S402 | TYPICAL DETAILS |
| S403 | DETAILS |
| S404 | DETAILS |
| S405 | DETAILS |
| S406 | DETAILS |
| S407 | DETAILS |
| S408 | DETAILS |
| S409 | METAL STUD FRAMING DETAILS |
| S901 | SCHEMATIC REFERENCE |

VCBO
ARCHITECTURE
VALENTINER
CRANE
BRUNJES
ONYON

PROFESSIONAL STRUCTURAL ENGINEER
Jeremy L. Achter
No. 353467
10.2.12
STATE OF UTAH

VCBO ARCHITECTURE
524 SOUTH 600 EAST
SALT LAKE CITY, UT 84102
Phone: (801) 575-8800
Fax: (801) 531-9850
WWW: www.vcbo.com

DFCM CODE COMPLIANCE STAMP

ARW ENGINEERS
structural consultants
1594 W. Park Cir. Ogden, Utah 84404
ph. 801.782.6008 fx. 801.782.4656

Student Activity Center
Stromberg Addition - BID SET
Weber State University
3750 Harrison Blvd. Ogden, UT 84408

Rev # Date Description

Job # 12475
CAD File
Drawn BLP Checked JLA
Date 10.03.2012
Owner # DFCM #12031810

STRUCTURAL NOTES

S001

10/2/2012 6:38:49 PM

K. COLD-FORMED STEEL

1. LIGHT GAUGE STEEL FRAMING
   a. STEEL FRAMING SIZE DESIGNATORS USED IN THE DRAWINGS FOLLOW THE CONVENTION ESTABLISHED BY THE STEEL STUD MANUFACTURERS' ASSOCIATION (SSMA) AND THE NORTH AMERICAN STEEL FRAMING ALLIANCE (NASFA). FRAMING MEMBERS PROVIDED SHALL meet or exceed all SSMA and NASFA STANDARDS AND DESIGN PROPERTIES.
   b. ALL LOAD BEARING STUDS (AND/OR) JOIST FRAMING MEMBERS ALONG WITH ALL RUNNERS, BRIDGING, AND END-TRACKS SHALL BE OF THE DESIGNATION SHOWN ON THE PLANS. ALL OF THE ABOVE ELEMENTS SHALL BE FORMED FROM STEEL MEETING REQUIREMENTS OF ASTM A1011/A1011M-04. ALL COMPONENTS SHALL BE GALVANIZED. ALL COMPONENTS SHALL HAVE THE FOLLOWING YIELD STRESSES:

| COMPONENT | BASE METAL THICKNESS | YIELD STRESS |
|---|---|---|
| STUDS, JOISTS & TRACKS | 33 & 43 MILL | 33,000 PSI |
| | 54, 68 & 97 MILL | 50,000 PSI |
| END CLOSURES & BRIDGING | 33, 43, 54 & 68 MILL | 33,000 PSI |

   c. FOLLOW ALL MANUFACTURERS' RECOMMENDATIONS FOR THE USE OF THESE PRODUCTS.
   d. UNLESS NOTED OTHERWISE, ALL WELDED CONNECTIONS SHALL BE IN ACCORDANCE WITH AWS D1.3 AND THE STRUCTURAL DETAILS. ALL WELDS SHALL BE COMPLETED USING E60XX ELECTRODES.
2. CONNECTIONS, FASTENERS, AND ADHESIVE
   a. ALL SCREWS SHALL HAVE THE FOLLOWING MINIMUM PROPERTIES:

| SCREW SIZE | SHANK DIAMETER |
|---|---|
| NO. 6 | 0.138" |
| NO. 8 | 0.164" |
| NO. 10 | 0.190" |
| NO. 12 | 0.216" |

   b. UNLESS NOTED OTHERWISE, ALL FRAMING ANCHORS, SLIPS, HOLD DOWNS, STRAPS, ETC. TO BE PROVIDED BY THE STEEL NETWORK OR APPROVED EQUAL.
   c. UNLESS NOTED OTHERWISE, ALL EXTERIOR WALL BOTTOM TRACKS TO BE ANCHORED TO THE CONCRETE FOUNDATION WALL WITH HILTI KWIK HUS-EZ ¼"X2-1/2" EMBEDMENT ANCHOR BOLTS @ 16"O.C.
3. UNLESS NOTED OTHERWISE, ALL STEEL STUD WALLS SHALL BE CONTINUOUS BETWEEN TOP AND BOTTOM TRACKS WITH NO SPLICES.
4. UNLESS NOTED OTHERWISE, ALL STEEL STUD JOISTS AND BOX HEADER COMPONENTS SHALL BE CONTINUOUS WITH NO SPLICES BETWEEN BEARING SUPPORTS.
5. ALL TOP AND BOTTOM TRACKS OF STUD WALLS AND BOX HEADERS SHALL BE CONTINUOUS. WHERE LONG TRACKS ARE NOT AVAILABLE, TRACKS MAY BE WELDED TOGETHER PER NOTE 1D OF THESE NOTES, ON ALL SIDES OR TRACKS MAY BE SPLICED PER DETAIL x/xx.
6. SEE TYPICAL DETAIL FOR REINFORCEMENT OF KNOCK OUT HOLES AT BEARING AND POINT LOAD LOCATIONS ON STEEL JOISTS AND BOX HEADERS.
7. AT ALL OVERBUILD LOCATIONS, ROOF SHEATHING SHALL BE COMPLETE BELOW OVERBUILDS PRIOR TO OVERBUILD CONSTRUCTION.
8. UNLESS NOTED OTHERWISE, ALL WALLS SHALL BE 600S162-54 STUDS SPACED AT 16"O.C. W/ 600T125-54 TRACKS. ATTACH TRACK TO STUDS W/ (1) #8 TEK SCREWS EACH SIDE OF STUD.
9. ALL INTERIOR, NON-BEARING, STEEL STUD WALLS THAT EXTEND ABOVE THE CEILING BUT DO NOT ATTACH TO THE FLOOR OR ROOF DIAPHRAGM (ABOVE), SHALL HAVE DIAGONAL BRACES AT 45 DEGREES (+/-). SEE ARCHITECTURAL DETAILS.

L. OPEN WEB JOISTS AND GIRDERS

1. ALL OPEN WEB STEEL JOISTS AND GIRDERS SHALL BE FABRICATED AND ERECTED IN ACCORDANCE WITH THE LATEST EDITION OF "STANDARD SPECIFICATIONS AND CODE OF STANDARD PRACTICE" OF THE STEEL JOIST INSTITUTE.
2. (###/###) DENOTES APPLIED TOTAL AND LIVE UNIFORMLY DISTRIBUTED LOADS IN POUNDS PER LINEAR FOOT OF JOIST, RESPECTIVELY.
3. SEE JOIST LOAD PROFILES FOR SPECIALLY LOADED JOISTS.
4. CONCENTRATED POINT LOADS (NOT SPECIFICALLY SHOWN ON THE PLANS) OF LESS THAN 200 LBS FOR MECHANICAL UNITS, FIRE SPRINKLER MAINS, AND OTHER EQUIPMENT SUPPORTED FROM JOISTS SHALL BE SUPPORTED WITHIN 6" OF A CHORD PANEL POINT. SUPPORT BEYOND PANEL POINTS CAN BE PROVIDED BY ADDING (2) L2"x2"x1/4" DIAGONALS TO THE NEAREST OPPOSITE CHORD PANEL POINT. LOADS SHALL BE SPACED AT LEAST 6 FEET APART WITH NO MORE THAN 4 PER JOIST. SEE JOIST FABRICATOR FOR ADDITIONAL REQUIREMENTS.
5. ANY BRACING REQUIRED FOR MISCELLANEOUS ITEMS (I.E. DUCTWORK, PIPING, ETC.) MUST CONNECT TO THE TOP CHORD OF THE JOIST OR GIRDER. BRACING TO THE BOTTOM CHORD IS NOT ALLOWED UNLESS SPECIFICALLY DETAILED THAT WAY ON THE PLANS.
6. PROVIDE SPECIAL BEARING ENDS AS REQUIRED AT SLOPED BEARING CONDITIONS. CONTRACTOR SHALL COORDINATE WITH OTHER STRUCTURAL ELEMENTS.
7. ALL JOISTS SHALL BE CAMBERED PER SJI SPECIFICATIONS, UNLESS NOTED OTHERWISE.
8. FIELD MODIFICATIONS (INCLUDING HOLES IN THE CHORD OR WEB MEMBERS) SHALL NOT BE MADE TO ANY JOIST OR GIRDER WITHOUT PRIOR APPROVAL BY THE MANUFACTURER.
9. FABRICATORS AND SUPPLIERS SHALL COORDINATE PAINT/FINISHES WITH REQUIREMENTS FOR DIRECT APPLIED INSULATION, FIREPROOFING, ETC. AS NOTED IN THE PROJECT SPECIFICATIONS.
10. JOIST BRIDGING SHALL BE PROVIDED AS REQUIRED BY THE JOIST MANUFACTURER AND SJI STANDARDS. BRIDGING WHERE SHOWN ON THE STRUCTURAL DRAWINGS IS A SCHEMATIC REPRESENTATION ONLY. SEE JOIST MANUFACTURER FOR BRIDGING SIZE, CONNECTIONS, TYPE AND QUANTITY.
11. WHERE ADDED LOADS ARE SHOWN ON THE JOISTS BUT NOT SPECIFICALLY DIMENSIONED, THE JOIST DESIGNER SHALL PLACE THOSE LOADS ON THE JOIST AT A LOCATION THAT RESULTS IN THE HIGHEST STRESS IN THE MEMBERS. THE DESIGNER MAY ASSUME THAT THE LOAD OCCURS WITHIN 10 FEET OF A SCALED DIMENSION.
12. FABRICATOR MUST SUBMIT A CERTIFICATE OF COMPLIANCE TO THE BUILDING OFFICIAL PER IBC 2206.5 STATING THAT WORK WAS PERFORMED IN ACCORDANCE WITH APPROVED CONSTRUCTION DOCUMENTS AND WITH SJI SPECIFICATIONS.
13. UNLESS NOTED OTHERWISE, ROOF JOISTS AND GIRDERS SHALL BE DESIGNED FOR A NET WIND UPLIFT OF 22 PSF.
14. ALL ROOF JOISTS BEARING ON EXTERIOR BEAMS SHALL BE DESIGNED TO TRANSFER 3.75 KIPS (ULTIMATE) TOP CHORD AXIAL FORCE THROUGH THE BEARING SHOE.
15. ALL K-SERIES JOISTS SHALL BE FABRICATED WITH 5" JOIST BEARING SEATS.
16. COORDINATE BRIDGING DESIGN AND LAYOUT WITH THE MECHANICAL PLANS AS DUCTWORK MAY OCCUR IN THE PLANE OF AND PARALLEL TO JOISTS REQUIRING THAT STRAIGHT BRIDGING BE USED IN LIEU OF DIAGONAL BRIDGING.

M. MASONRY

1. ALL HOLLOW MASONRY UNITS SHALL CONFORM TO ASTM C-90.
   f'm (MINIMUM) 1,500 PSI
   MINIMUM UNIT STRENGTH 1,900 PSI (TESTED IN ACCORDANCE WITH ASTM C-140)
2. ALL GROUT (SITE MIXED OR PRE-MIXED) SHALL CONFORM TO ASTM C-476 OR SECTION 2.2A OF TMS 602-08/ACI 530.1-08/ASCE 6-08. GROUT SHALL BE PLACED WITH SUFFICIENT WATER FOR POURING WITHOUT SEGREGATION. DO NOT USE MORTAR FOR GROUT. MECHANICALLY VIBRATE ALL GROUT.
3. GROUT STOPS SHALL BE AN APPROVED PRODUCT DESIGNED AND MANUFACTURED FOR USE AS A GROUT STOP. GROUT STOP SUBMITTALS SHALL BE SUBMITTED TO THE ARCHITECT AND ENGINEER FOR REVIEW. OTHER GROUT STOP MATERIALS SUCH AS ASPHALT IMPREGNATED MATERIALS ARE NOT PERMITTED.
4. MORTAR SHALL BE TYPE S AND SHALL CONFORM TO ASTM C 270.
5. ALL MASONRY WORK SHALL CONFORM TO CHAPTER 21 OF THE IBC.
6. UNLESS NOTED OTHERWISE, MINIMUM REINFORCING IN ALL 8" MASONRY WALLS SHALL BE AS FOLLOWS:
   a. VERTICAL: # 5 BARS IN CELLS ADJACENT TO ALL OPENINGS, AT CORNERS AND AT A MAXIMUM SPACING OF 32" THROUGHOUT THE WALL. ALL VERTICAL REINFORCEMENT INCLUDING, BUT NOT LIMITED TO JAMBS, COLUMNS, AND WALL REINFORCING SHALL BE DOWELED INTO AND THROUGH THE FOUNDATION WALL AND INTO THE FOOTING BELOW UNLESS SPECIFICALLY DETAILED OTHERWISE.
   b. HORIZONTAL: (2) #4 BARS IN 8" DEEP "H" BLOCK BOND BEAM UNITS AT 48"O.C. AND AT FLOORS, ROOF AND TOP OF WALL. BOND BEAMS AT ROOF WILL SLOPE TO MATCH SLOPING ROOF.
7. ALL BLOCK CELLS CONTAINING REINFORCING, BOLTS, OR ANCHORS SHALL BE GROUTED SOLID.
8. PROVIDE (1) #5 (MINIMUM), IN GROUTED SPACE, ON ALL SIDES AND ADJACENT TO EVERY OPENING WHICH EXCEEDS 24" IN EITHER DIRECTION. HORIZONTAL BARS SHALL EXTEND 24" BEYOND THE CORNERS OF THE OPENING AND VERTICAL BARS SHALL EXTEND TO TOP OF WALL. VERTICAL REINFORCING SHALL BE PROVIDED AT ENDS, CORNERS AND EACH SIDE OF CONTROL JOINTS. SEE TYPICAL DETAILS FOR OPENINGS WHICH EXCEED 32" IN EITHER DIRECTION.
9. SOLID GROUTING OF MASONRY IS UNACCEPTABLE EXCEPT AS SPECIFICALLY NOTED ON PLANS AND SCHEDULES.
10. WHERE WALLS ARE NOT GROUTED SOLID, EACH GROUT POUR SHALL TERMINATE FLUSH WITH THE TOP OF THE UPPERMOST UNIT EXCEPT AT CELLS WITH VERTICAL REINFORCING WHERE GROUT SHALL BE 1-1/2" BELOW TOP OF UNIT TO PROVIDE CONSTRUCTION KEY. WHERE WALLS ARE GROUTED SOLID, EACH GROUT POUR SHALL TERMINATE 1-1/2" BELOW TOP OF UNIT.
11. GROUT POURS SHALL NOT EXCEED 5'-0" UNLESS HIGH LIFT GROUTING PROCEDURES ARE FOLLOWED.
12. THE USE OF HIGH LIFT GROUTING PROCEDURES REQUIRE THE APPROVAL OF THE ARCHITECT AND ENGINEER AND SHALL NOT EXCEED THE MAXIMUM HEIGHTS GIVEN IN TABLE 1.19.1 OF TMS 402-08/ACI 530-08/ASCE 5-08. GROUT DEMONSTRATION PANELS, AS PRESCRIBED BY THE ARCHITECT AND ENGINEER, SHALL BE REQUIRED WHERE REQUESTED GROUTING PROCEDURES DO NOT MEET THE LIMITS OF TABLE 1.19.1. ADDITIONALLY, ALL HIGH LIFT GROUTING SHALL INCLUDE INSPECTION PROCEDURES NEEDED TO VERIFY GROUT PLACEMENT DURING CONSTRUCTION.
13. ALL MASONRY BEAMS SHALL BE BUILT INTEGRAL WITH SUPPORT. NO TOOTHING OR DOWELING PERMITTED. UNITS WITH ONE END OPEN SHALL BE USED FOR ALL MASONRY BEAMS.
14. PROVIDE VERTICAL CONTROL JOINTS AT MAXIMUM SPACINGS NOTED BELOW UNLESS NOTED OTHERWISE IN THE SPECIFICATIONS AND/OR ON ARCHITECTURAL ELEVATIONS AND AT ALL CHANGES IN WALL ELEVATION AND MASONRY THICKNESS. CONTROL JOINTS SHALL NOT BE LOCATED DIRECTLY OVER OR CLOSER THAN 24" TO WALL OPENINGS (DOORS, WINDOWS, MECHANICAL OPENINGS, ETC.), OR WITHIN MASONRY JAMBS.
   REINFORCED MASONRY: 40 FT
   VENEER: 30 FT AND AT INTERFACE BETWEEN VENEER SUPPORTED BY FOUNDATIONS AND SUSPENDED STRUCTURAL ELEMENTS.
15. HORIZONTAL REINFORCEMENT SHALL TERMINATE AT EACH SIDE OF CONTROL JOINTS EXCEPT AT FLOOR AND ROOF LEVEL BOND BEAMS AND AT TOP OF PARAPET.
16. CONTROL JOINTS SHALL BE PROVIDED AT THE MASONRY SIDE OF EMBEDDED STEEL COLUMNS TO CONTROL CRACKING OF FACE SHELLS.
17. SUPPORT NON-BEARING, NON-STRUCTURAL WALLS AT TOP OF MASONRY AS PER TYPICAL DETAILS AT LOCATIONS WHERE INTERSECTING OR PERPENDICULAR WALLS ARE 12'-0" OR MORE APART OR WHERE END OF WALL OCCURS 6'-0" OR MORE FROM INTERSECTING WALL.
18. EMBED CHANNELS AND PLATES TO BE PLACED SO AS TO CREATE FLUSH SURFACE WITH FACE OF MASONRY. FLANGES ON CHANNEL EMBEDS SHALL BE HORIZONTAL.
19. ALL VERTICAL REINFORCING SHALL BE SECURED IN PLACE PRIOR TO GROUTING USING WIRE POSITIONERS OR OTHER ACCEPTABLE DEVICES. REINFORCING SHALL BE SECURED AT BAR-SPLICE LOCATIONS AND AT A SPACING NOT MORE THAN 120 BAR DIAMETERS.
20. UNLESS NOTED OTHERWISE, MASONRY WALLS SHALL BE CONSTRUCTED UTILIZING COMMON RUNNING-BOND WITH FULLY MORTARED BED JOINTS AROUND GROUTED CELLS.
   MASONRY VENEER SHALL BE ANCHORED AS FOLLOWS:
   MASONRY VENEER SHALL BE ANCHORED USING THE DUR-O-WAL VENEER ANCHOR ASSEMBLY SYSTEM, OR AN APPROVED EQUAL. REGARDLESS OF BACK-UP SYSTEM, PROVIDE A CONTINUOUS HORIZONTAL 9 GAUGE WIRE AT 16"O.C. IN VENEER MORTAR JOINTS FOR ANCHOR ATTACHMENT. POSITIVE ANCHORAGE TO THE WIRE SHALL BE PROVIDED TO SUPPORT NOT MORE THAN 2 SQUARE FEET OF WALL, WITH A HORIZONTAL SPACING NOT EXCEEDING 18".
   a. WOOD AND METAL STUDS; USE DUR-O-WAL D/A 213 HEAVY DUTY ANCHORS OR AN APPROVED EQUAL. THE DUR-O-WAL ASSEMBLY SHALL BE ATTACHED TO WOOD STUDS USING A # 12 X 2" WOOD SCREWS OR TO METAL STUDS USING #10 SCREWS.
21. ELECTRICAL CONDUIT SHALL NOT BE PLACED IN CELLS THAT CONTAIN REBAR. CONDUIT IS ALLOWED TO PASS THROUGH REINFORCED CELLS WHEN IT OCCURS PERPENDICULAR TO THE REBAR. CONDUIT SHALL NOT CONTACT REBAR AS IT PASSES. THERE SHALL BE 1" CLEAR BETWEEN CONDUIT AND REBAR.

N. HELICAL PIER FOUNDATIONS

1. HELICAL PIER FOUNDATIONS AND THEIR COMPONENTS SHALL BE CONSIDERED A "PILE FOUNDATION" AND SHALL BE SUBJECT TO CONTINUOUS SPECIAL INSPECTION AS REQUIRED BY THE SPECIAL INSPECTION SCHEDULE FOR PILE FOUNDATIONS AND PER IBC CHAPTER 17.
2. HELICAL PIER FOUNDATION SYSTEMS SHALL BE DESIGNED BY A LICENSED ENGINEER TO RESIST THE REQUIRED LOADS AS INDICATED ON THE PLANS AND SCHEDULES. SEE SPECIFICATIONS FOR ADDITIONAL INFORMATION CONCERNING REQUIREMENTS FOR DESIGN, TESTING, AND INSTALLATION OF HELICAL PIER FOUNDATIONS.
3. SHOP DRAWINGS AND CALCULATIONS PREPARED AND STAMPED BY A LICENSED ENGINEER SHALL BE SUBMITTED TO THE ARCHITECT AND ENGINEER FOR APPROVAL PRIOR TO FABRICATION AND INSTALLATION. AT A MINIMUM, SHOP DRAWINGS AND CALCULATIONS SHALL INCLUDE, BUT NOT BE LIMITED TO, PIER LAY-OUT, QUANTITIES, SHAFT AND HELIX SIZES, FOUNDATION CONNECTION REQUIREMENTS, TEST PIER REQUIREMENTS, APPLIED SAFETY FACTORS, ETC.
4. HELICAL PIER FOUNDATION SYSTEMS SHALL BE INSTALLED IN ACCORDANCE WITH AN ICC EVALUATION SERVICES INC. RESEARCH REPORT BY CERTIFIED HELICAL PIER INSTALLERS.
5. ALL STEEL COMPONENTS OF HELICAL PIER FOUNDATION SYSTEMS SHALL BE HOT-DIPPED GALVANIZED PER ASTM A153.
6. ALL HELICAL PIERS SHALL BE PLACED IN UNDISTURBED SOIL TO A MINIMUM DEPTH AS REQUIRED TO REACH THE SPECIFIED LOAD REQUIREMENTS NOTED ON THE PLANS, BUT NO LESS THAN 5 TIMES THE DIAMETER OF THE LARGEST HELIX BELOW THE UNDISTURBED SURFACE.
7. HELICAL PIER FOUNDATION SHALL BE DRIVEN INTO SOIL UNTIL THE REQUIRED TORQUE OR ULTIMATE LOAD RATING IS REACHED. TORQUE RESULTS AND HELICAL PIER DEPTHS SHALL BE RECORDED FOR EACH PIER AND SUBMITTED TO THE ENGINEER FOR REVIEW.
8. ALL PIERS SHALL BE PLACED SUCH THAT THE HELICES OF ADJACENT PIERS ARE NO CLOSER THAN 3 HELICE DIAMETERS APART (BASED ON THE LARGEST HELICE USED TO ATTAIN THE REQUIRED LOAD RATING) WHEN THE PIER HAS REACHED ITS FINAL DEPTH.
9. HELICAL PIER FOUNDATIONS USED TO RESIST CYCLICAL LOADING SHALL HAVE STEEL SHIMS INSTALLED IN THE COUPLING BOXES TO REMOVE SLACK AT COUPLERS.
10. THE NUMBER AND LOCATION OF HELICAL PIERS IS SHOWN SCHEMATICALLY ON THE PLANS. HELICAL PIER SUPPLIER IS RESPONSIBLE FOR DETERMINING THE ACTUAL NUMBER AND DEPTH OF PIERS REQUIRED TO RESIST THE LOADS SHOWN ON THE PLANS. LOADS SHOWN ARE BASED ON ALLOWABLE/DESIGN LEVEL FORCES.

O. DEFERRED SUBMITTALS

1. DEFERRED SUBMITTALS ARE COMPLETE PACKAGES TO BE SUBMITTED FOR REVIEW THAT INCLUDE DRAWINGS AND CALCULATIONS FOR ALL ELEMENTS AND CONNECTIONS OF ITEMS LISTED BELOW. DEFERRED SUBMITTALS SHALL BEAR THE STAMP AND SIGNATURE OF THE DESIGN PROFESSIONAL RESPONSIBLE FOR THE DESIGN.
2. DEFERRED SUBMITTAL COMPONENTS SHALL NOT BE INSTALLED UNTIL APPROVED BY THE BUILDING OFFICIAL.
3. DEFERRED SUBMITTALS SHALL INCLUDE, BUT ARE NOT LIMITED TO:
   a. OPEN WEB JOISTS & GIRDERS.
   b. HELICAL PIERS / MICRO PILES (TO INCLUDE DETAILS SHOWING ATTACHMENT OF PIER/PILES TO EXISTING FOUNDATIONS, NEW GRADE BEAMS, ETC.).
   c. BRB BRACES, GUSSET PLATES, AND CONNECTIONS. THESE DESIGNS SHALL BE BASED UPON QUALIFIED CYCLIC TESTS IN ACCORDANCE WITH SECTION 16.2(C) OF AISC 341-05.
   d. SEISMIC BRACING OF ALL ARCHITECTURAL, MECHANICAL, PLUMBING, AND ELECTRICAL ITEMS WHERE REQUIRED BY ASCE 7-05 AND THE PROJECT CONTRACT DOCUMENTS.
   e. STRUCTURAL STEEL STAIRS AND HANDRAILS.
   f. DISPLACEMENT RAMMED AGGREGATE PIERS.

## CONCRETE WALL SCHEDULE (L)

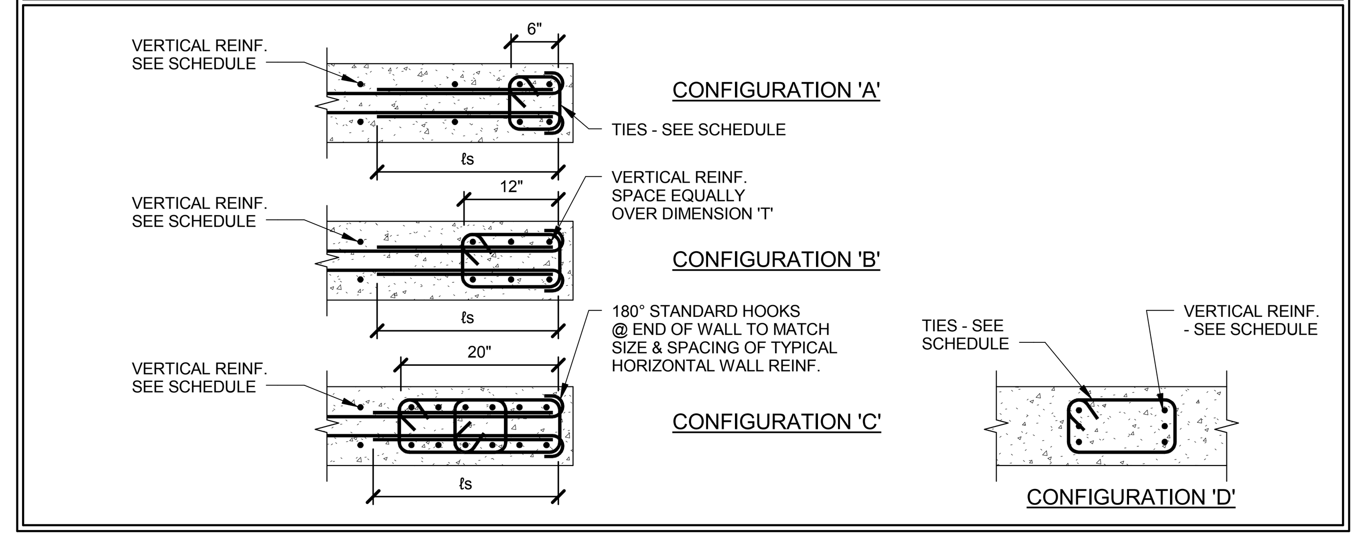
| MARK | THICK. | VERT. REINF. SIZE | VERT. REINF. SPACING | HORIZ. REINF. SIZE | HORIZ. REINF. SPACING | COMMENTS |
|---|---|---|---|---|---|---|
| CW-1 | 10" | #4 EA. FACE | 10" | #4 EA. FACE | 18" | |
| CW-1A | 10" | #4 EA. FACE | 10" | #4 EA. FACE | 12" | |
| CW-2 | 10" | #4 EA. FACE | 10" | #4 EA. FACE | 16" | |

NOTES:
1. CONCRETE WALL CALLOUTS ON PLAN ARE NOTED FOR LEVEL ABOVE CALLOUT.
2. SEE STRUCTURAL NOTES FOR ADDITIONAL INFORMATION.
3. PLACE (2) #5 ON ALL SIDES OF OPENINGS. EXTEND AT LEAST 24" BEYOND EDGE OF OPENING.
4. PLACE (2) #4 x 48" 45 DEGREE DIAGONAL BARS AT THE CORNERS OF ALL WALL OPENINGS.

## CONCRETE JAMB SCHEDULE (L)

| MARK | VERTICAL REINF. | TIES | CONFIG. | COMMENTS |
|---|---|---|---|---|
| CJ-1 | (4) #5 | #3 TIES @ 8"o.c. | A | |
| CJ-2 | (6) #6 | #3 TIES @ 8"o.c. | B | |
| CJ-3 | (12) #6 | #3 TIES @ 8"o.c. | C | |
| CJ-4 | (6) #4 | #3 TIES @ 8"o.c. | D | |

NOTES:
1. ALL VERTICAL REINFORCEMENT IS CONTINUOUS UP FULL HEIGHT OF WALL.
2. ALL VERTICAL REINFORCEMENT SHALL HAVE DOWELS CAST INTO FOOTING BELOW.
3. CONCRETE JAMB VERTICAL BARS SHALL HAVE SPLICE LENGTH PER 'BEAM TOP BARS' ACCORDING TO REBAR LAP SCHEDULE.




## ROOF DECK SCHEDULE (L)

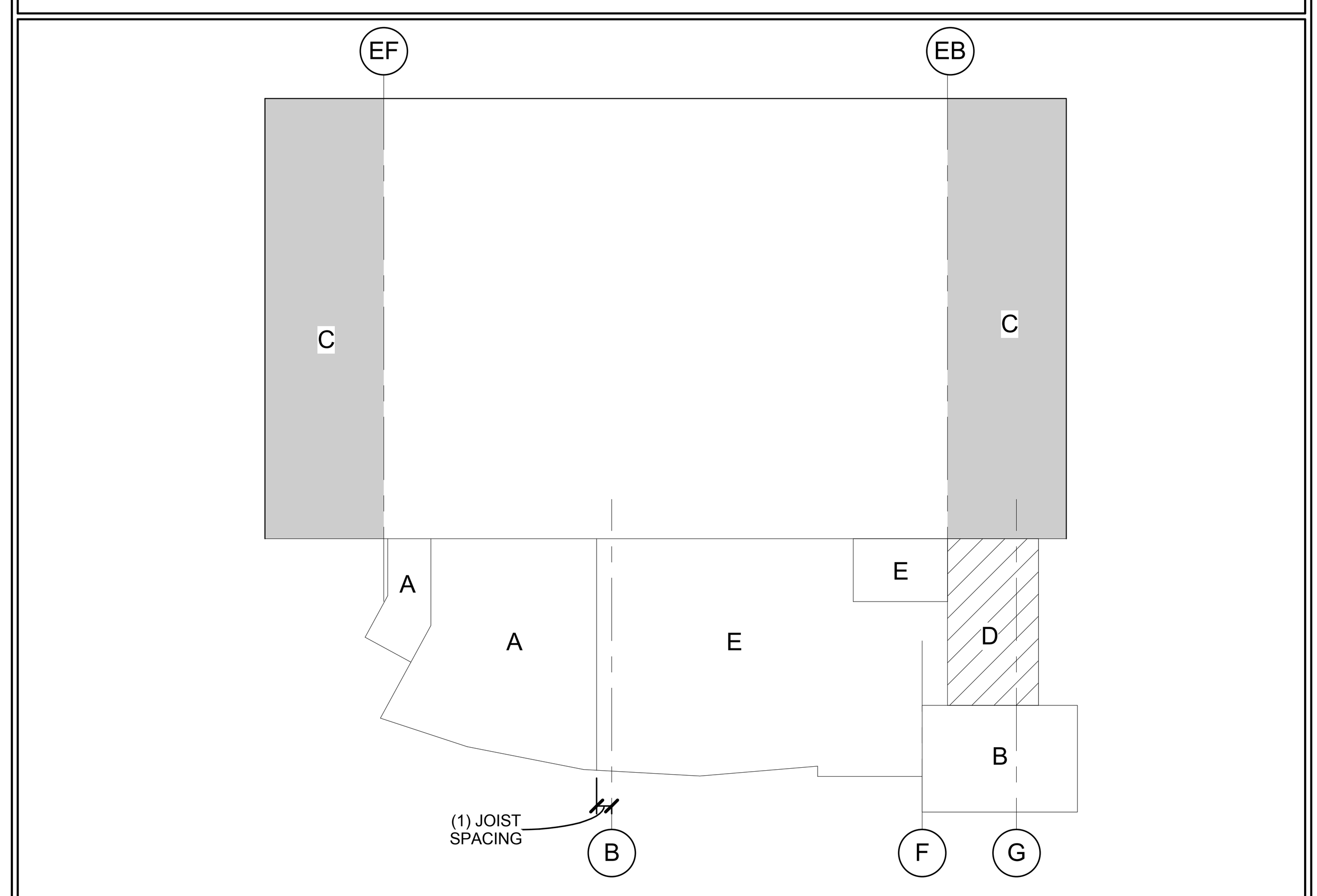
| AREA | DECK DEPTH | DECK TYPE | DECK GA. | SUPPORTS DIA. WELD | SUPPORTS PATTERN | SIDE SEAMS #12 TEK SCREWS | SIDE SEAMS TOP SEAM WELD | SIDE SEAMS PUNCH LOCK (7) | SUPPORTS PARALLEL TO FLUTES DIA. WELD | SUPPORTS PARALLEL TO FLUTES SPA. | MIN. SHEAR CAPACITY | COMMENTS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| A | 1 1/2 | B | 20 | 3/4 | 36/7 | --- | --- | 24" | 3/4" | 24" | 750 PLF | --- |
| B | 1 1/2 | B | 20 | 3/4 | 36/7 | --- | --- | 8" | 3/4" | 4" | 1093 PLF | --- |
| C | 1 1/2 | B | 16 | 3/4 | 36/7 | --- | --- | 12" | 3/4" | 12" | 1760 PLF | ACOUSTICAL DECK |
| D | 1 1/2 | B | 18 | 3/4 | 36/7 | --- | --- | 24" | 3/4" | 12" | 1373 PLF | |
| E | 1 1/2 | B | 20 | 3/4 | 36/7 | --- | --- | 18" | 3/4" | 16" | 940 PLF | |

FASTENING PATTERNS



WELD PATTERN : 36/7

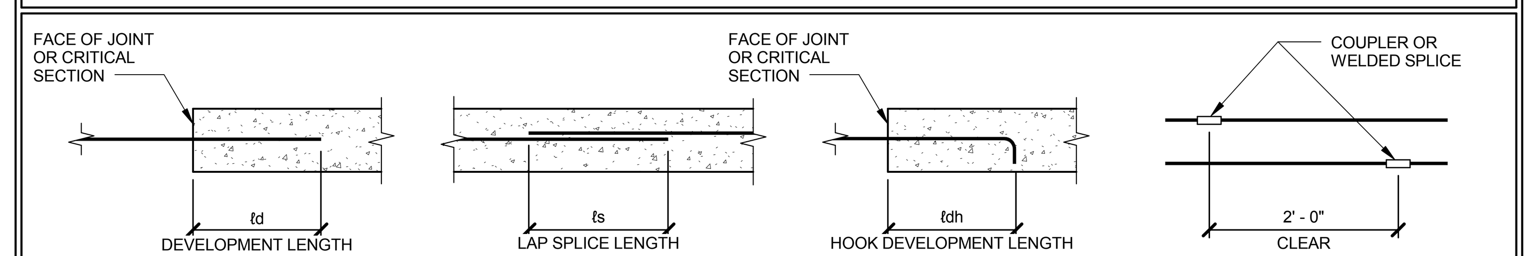
NOTES :
1. TOP SEAM WELDS SHALL BE 1-1/2" LONG AND SHALL BE ACCORDING TO SDI STANDARDS.
2. MIN. SHEAR CAPACITY IS THE CAPACITY REQUIRED FOR ALTERNATE SYSTEMS.
3. USE NESTABLE (OVERLAPPING) SIDE SEAMS AT SCREW ATTACHMENTS AND INTERLOCKING SIDE SEAMS AT WELDS.
4. N DECK END BUTT JOINTS OVER STEEL JOISTS SHALL USE 16 GA. x 6" CONTINUOUS SHEET BETWEEN DECK AND JOIST TOP CHORD ANGLES. DECK WELDS TO PENETRATE SHEET AND ENGAGE JOIST CHORD.
5. ALL DECK WITH A PROFILE DEPTH OF 2" OR LESS SHALL HAVE NESTED OR TELESCOPED END LAPS.
6. SUBMIT CURRENT ICC APPROVAL FOR ALL DECKS.
7. OTHER PNEUMATIC FASTENING SYSTEMS MUST MEET MIN. SHEAR CAPACITY SHOWN IN SCHEDULE. ALL ALTERNATE SYSTEMS SHALL BE SUBMITTED TO ENGINEER FOR REVIEW & APPROVAL.




KEY PLAN

## 2009 IBC REBAR LAP SPLICE SCHEDULE (L)

FOR CONCRETE APPLICATIONS (ACI 318 - 08)




CONCRETE REINFORCING & SPLICE LENGTHS (IN)

| BAR LOCATION | CONCRETE TYPE | CONCRETE STRENGTH | #3 $\ell_d$ | #3 $\ell_s$ | #3 $\ell_{dh}$ | #4 $\ell_d$ | #4 $\ell_s$ | #4 $\ell_{dh}$ | #5 $\ell_d$ | #5 $\ell_s$ | #5 $\ell_{dh}$ | #6 $\ell_d$ | #6 $\ell_s$ | #6 $\ell_{dh}$ | #7 $\ell_d$ | #7 $\ell_s$ | #7 $\ell_{dh}$ | #8 $\ell_d$ | #8 $\ell_s$ | #8 $\ell_{dh}$ | #9 $\ell_d$ | #9 $\ell_{dh}$ | #10 $\ell_d$ | #10 $\ell_{dh}$ | #11 $\ell_d$ | #11 $\ell_{dh}$ | #14 $\ell_d$ | #14 $\ell_{dh}$ | #18 $\ell_d$ | #18 $\ell_{dh}$ |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| VERT. WALL BARS, FILL ON METAL DECK | NWC | 3000 PSI | 17 | 22 | 8 | 22 | 29 | 8 | 28 | 36 | 10 | 33 | 43 | 12 | 48 | 62 | 13 | 55 | 72 | 15 | 62 | 17 | 69 | 19 | 76 | 30 | 96 | 38 | 124 | 49 |
| HORIZ. WALL BARS, FOOTING TOP BARS | NWC | 3000 PSI | 17 | 22 | 8 | 22 | 29 | 8 | 28 | 36 | 10 | 33 | 43 | 12 | 48 | 62 | 13 | 55 | 72 | 15 | 62 | 17 | 69 | 19 | 76 | 30 | 96 | 38 | 124 | 49 |
| BEAM BOTTOM BARS, COLUMN BARS | NWC | 3000 PSI | 17 | 22 | 8 | 22 | 29 | 11 | 28 | 36 | 14 | 33 | 43 | 16 | 48 | 62 | 19 | 55 | 72 | 22 | 62 | 25 | 69 | 27 | 76 | 30 | 96 | 38 | 124 | 49 |
| FOOTING BOTTOM BARS | NWC | 3000 PSI | 12 | 16 | 8 | 14 | 18 | 8 | 17 | 22 | 10 | 20 | 26 | 12 | 29 | 38 | 13 | 33 | 43 | 15 | 37 | 17 | 42 | 19 | 46 | 30 | | | | |
| BEAM TOP BARS | NWC | 3000 PSI | 22 | 29 | 8 | 29 | 38 | 11 | 36 | 47 | 14 | 43 | 56 | 16 | 63 | 82 | 19 | 72 | 94 | 22 | 81 | 25 | 90 | 27 | 98 | 30 | 125 | 38 | 161 | 49 |
| SLAB ON GRADE | NWC | 3000 PSI | 12 | 16 | 8 | 14 | 18 | 8 | 17 | 22 | 10 | 20 | 26 | 12 | 32 | 42 | 13 | 42 | 55 | 15 | 53 | 17 | 69 | 19 | 76 | 30 | | | | |

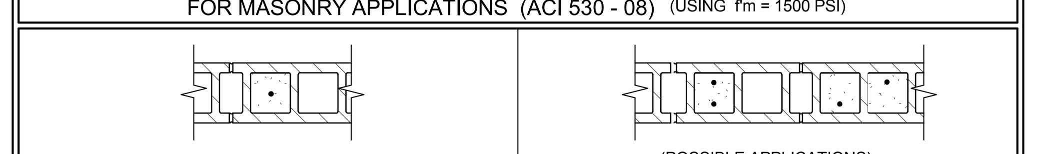
CONCRETE REINFORCING & SPLICE LENGTHS (IN)

| BAR LOCATION | CONCRETE TYPE | CONCRETE STRENGTH | #3 $\ell_d$ | #3 $\ell_s$ | #3 $\ell_{dh}$ | #4 $\ell_d$ | #4 $\ell_s$ | #4 $\ell_{dh}$ | #5 $\ell_d$ | #5 $\ell_s$ | #5 $\ell_{dh}$ | #6 $\ell_d$ | #6 $\ell_s$ | #6 $\ell_{dh}$ | #7 $\ell_d$ | #7 $\ell_s$ | #7 $\ell_{dh}$ | #8 $\ell_d$ | #8 $\ell_s$ | #8 $\ell_{dh}$ | #9 $\ell_d$ | #9 $\ell_{dh}$ | #10 $\ell_d$ | #10 $\ell_{dh}$ | #11 $\ell_d$ | #11 $\ell_{dh}$ | #14 $\ell_d$ | #14 $\ell_{dh}$ | #18 $\ell_d$ | #18 $\ell_{dh}$ |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| VERT. WALL BARS, FILL ON METAL DECK | NWC | 4500 PSI | 14 | 18 | 7 | 18 | 23 | 6 | 23 | 30 | 8 | 27 | 35 | 9 | 40 | 52 | 11 | 45 | 59 | 13 | 51 | 14 | 56 | 16 | 62 | 25 | 79 | 31 | 101 | 40 |
| HORIZ. WALL BARS, FOOTING TOP BARS | NWC | 4500 PSI | 14 | 18 | 7 | 18 | 23 | 6 | 23 | 30 | 8 | 27 | 35 | 9 | 40 | 52 | 11 | 45 | 59 | 13 | 51 | 14 | 56 | 16 | 62 | 25 | 79 | 31 | 101 | 40 |
| BEAM BOTTOM BARS, COLUMN BARS | NWC | 4500 PSI | 14 | 18 | 7 | 18 | 23 | 9 | 23 | 30 | 11 | 27 | 35 | 13 | 40 | 52 | 16 | 45 | 59 | 18 | 51 | 20 | 56 | 22 | 62 | 25 | 79 | 31 | 101 | 40 |
| FOOTING BOTTOM BARS | NWC | 4500 PSI | 12 | 16 | 7 | 12 | 16 | 6 | 14 | 18 | 8 | 17 | 22 | 9 | 24 | 31 | 11 | 27 | 35 | 13 | 31 | 14 | 34 | 16 | 37 | 25 | | | | |
| BEAM TOP BARS | NWC | 4500 PSI | 18 | 23 | 7 | 24 | 31 | 9 | 30 | 39 | 11 | 35 | 46 | 13 | 51 | 66 | 16 | 59 | 77 | 18 | 66 | 20 | 73 | 22 | 80 | 25 | 102 | 31 | 131 | 40 |
| SLAB ON GRADE | NWC | 4500 PSI | 12 | 16 | 7 | 12 | 16 | 6 | 14 | 18 | 8 | 17 | 22 | 9 | 27 | 35 | 11 | 34 | 44 | 13 | 44 | 14 | 56 | 16 | 62 | 25 | | | | |

NOTES :
1. MECHANICAL COUPLERS MAY BE USED IN LIEU OF LAP SPLICES SHOWN. SEE STRUCTURAL NOTES FOR MINIMUM COUPLER CAPACITY. WHERE MECHANICAL COUPLERS ARE USED, STAGGER ADJACENT SPLICES A MINIMUM OF 24" AS INDICATED ABOVE.
2. DEVELOPMENT LENGTHS SHALL BE INCREASED BY 50% FOR STRAIGHT BAR DEVELOPMENT AND 20% FOR HOOKED BARS WHERE EPOXY COATING IS USED.
3. WHEN SPLICING BARS OF DIFFERENT SIZES, USE LAP SPLICE LENGTH OF LARGER BARS UNO.
4. SPLICE #9 AND LARGER BARS USING MECHANICAL COUPLERS.

## 2009 IBC REBAR LAP SPLICE SCHEDULE

FOR MASONRY APPLICATIONS (ACI 530 - 08) (USING f'm = 1500 PSI)

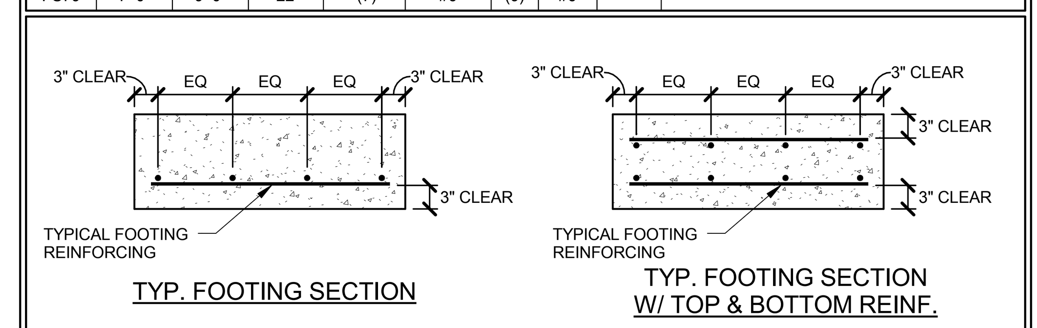



| (1) BAR AT CL. OF WALL (VERTICAL OR HORIZONTAL) BAR SIZE NO. | DIA. | 8" WALL | 10" & 12" WALLS | BARS AT EACH FACE OF WALL (VERTICAL OR HORIZONTAL) BAR SIZE NO. | DIA. | 8", 10" & 12" WALLS |
|---|---|---|---|---|---|---|
| 2 | 0.250 | 12" | 12" | 2 | 0.250 | 12" |
| 3 | 0.375 | 15" | 15" | 3 | 0.375 | 16" |
| 4 | 0.500 | 20" | 20" | 4 | 0.500 | 29" |
| 5 | 0.625 | 25" | 25" | 5 | 0.625 | 45" |
| 6 | 0.750 | 43" | 40" | 6 | 0.750 | 54" |
| 7 | 0.875 | 59" | 46" | 7 | 0.875 | 63" |
| 8 | 1.000 | MECH. COUPLER | MECH. COUPLER | 8 | 1.000 | MECH. COUPLER |
| 9 | 1.128 | MECH. COUPLER | MECH. COUPLER | 9 | 1.128 | MECH. COUPLER |

NOTES:
1. MECHANICAL COUPLERS ARE REQUIRED FOR BARS IN MASONRY AS NOTED IN THE SCHEDULE.
2. MECHANICAL COUPLERS MAY BE USED IN LIEU OF LAP SPLICES SHOWN IN SCHEDULE.
3. SEE STRUCTURAL NOTES FOR MINIMUM COUPLER CAPACITIES.
4. EPOXY-COATED REBAR LAP SPLICES SHALL BE TAKEN AS 150% OF THE LENGTHS PROVIDED IN THIS SCHEDULE.

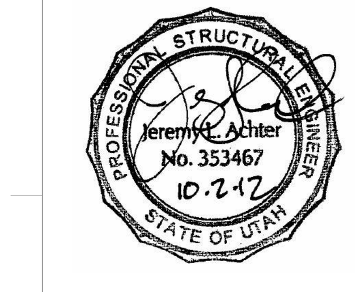
## FOOTING SCHEDULE (L)

| MARK | WIDTH | LENGTH | THICK | LENGTHWISE REINF. NO. | LENGTHWISE REINF. SIZE | CROSSWISE REINF. NO. | CROSSWISE REINF. SIZE | CROSSWISE REINF. SPA. | REMARKS |
|---|---|---|---|---|---|---|---|---|---|
| FC2 | 2'-0" | CONT. | 12" | (2) | #4 | -- | -- | -- | |
| FC4 | 4'-0" | CONT. | 12" | (4) | #4 | -- | #3 | 24"o.c. | |
| FC5 | 5'-0" | CONT. | 12" | (5) | #4 | -- | #3 | 18"o.c. | |
| FC5.5 | 5'-6" | CONT. | 16" | (6) | #6 | -- | #5 | 12"o.c. | |
| FC8.5 | 8'-6" | CONT. | 16" | (12) | #6 | -- | #5 | 12"o.c. | |
| | | | | | | | | | |
| F2.5 | 2'-6" | 2'-6" | 12" | (3) | #5 | (3) | #5 | -- | |
| F3 | 3'-0" | 3'-0" | 12" | (3) | #5 | (3) | #5 | -- | |
| F3.5 | 3'-6" | 3'-6" | 12" | (3) | #5 | (3) | #5 | -- | |
| F4 | 4'-0" | 4'-0" | 14" | (4) | #5 | (4) | #5 | -- | |
| F4.5 | 4'-6" | 4'-6" | 16" | (4) | #6 | (4) | #6 | -- | |
| F5 | 5'-0" | 5'-0" | 16" | (5) | #6 | (5) | #6 | -- | |
| F5.5 | 5'-6" | 5'-6" | 18" | (5) | #6 | (5) | #6 | -- | |
| F6 | 6'-0" | 6'-0" | 20" | (6) | #6 | (6) | #6 | -- | |
| F6.5 | 6'-6" | 6'-6" | 20" | (6) | #7 | (6) | #7 | -- | |
| F7 | 7'-0" | 7'-0" | 22" | (7) | #7 | (7) | #7 | -- | |
| F7.5 | 7'-6" | 7'-6" | 24" | (7) | #7 | (7) | #7 | -- | |
| | | | | | | | | | |
| FS2 | 2'-0" | 2'-0" | 16" | (2) | #4 | (2) | #4 | -- | |
| FS4 | 4'-0" | 4'-0" | 24" | (4) | #4 | (4) | #4 | -- | |
| FS69 | 6'-0" | 9'-0" | 20" | (6) | #6 | (9) | #6 | -- | |
| FS79 | 7'-0" | 9'-0" | 22" | (7) | #6 | (9) | #6 | -- | |





VCBO ARCHITECTURE
VALENTINER CRANE BRUNJES ONYON
VCBO ARCHITECTURE
524 SOUTH 600 EAST
SALT LAKE CITY, UT 84102
Phone: (801) 575-8800
Fax: (801) 531-9850
WWW: www.vcbo.com


DFCM CODE COMPLIANCE STAMP


ARW ENGINEERS
structural consultants
1594 W. Park Cir. Ogden, Utah 84404


# Student Activity Center
## Stromberg Addition - BID SET
Weber State University
3750 Harrison Blvd. Ogden, UT 84408

| Rev # | Date | Description |
|---|---|---|

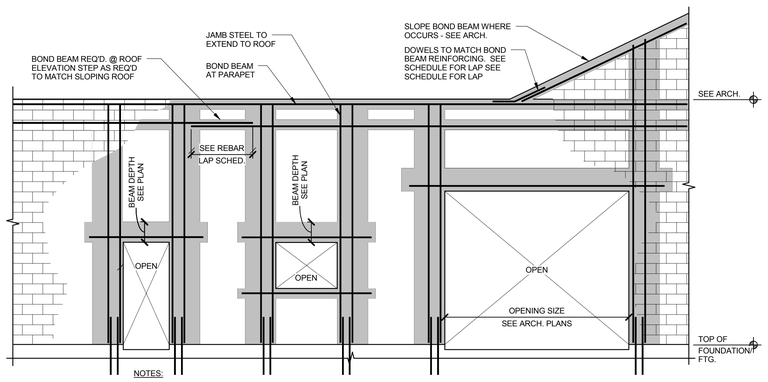
Job # 12475
CAD File
Drawn BLP Checked JLA
Date 10.03.2012
Owner # DFCM #12031810

STRUCTURAL NOTES & SCHEDULES

S002

10/2/2012 6:38:49 PM

# TYPICAL MASONRY / JAMB REINFORCING SCHEDULE




NOTES:

1. USE OPEN-END UNITS AT INTERSECTIONS OF BEAMS AND JAMBS.
2. TYPICAL HORIZONTAL BOND BEAMS MAY BE ADJUSTED UP OR DOWN BY ONE COURSE PROVIDED THE OVERALL NUMBER OF REQUIRED BOND BEAMS ARE INSTALLED.
3. TYPICAL HORIZONTAL AND VERTICAL WALL REINFORCING NOT SHOWN FOR CLARITY, SEE PLAN AND SCHEDULE FOR TYPICAL WALL REINFORCING.
4. JAMB REINFORCING SHOWN IS SCHEMATIC. SEE SCHEDULE & DETAILS FOR ACTUAL JAMB REINF.

## MASONRY BEAM SCHEDULE

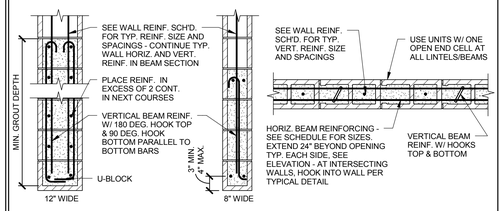
| MARK | NOMINAL THICKNESS | BOTTOM REINF. | TOP REINF. | VERTICAL REINF. | MIN. GROUT DEPTH | OPENING ① SIZE | COMMENTS |
|---|---|---|---|---|---|---|---|
| MB-1 | 8" | (2) #5 | (2) #5 | N/A | 16" | --- | |

NOTES:
1. WHERE SPECIFIC BEAMS ARE NOT NOTED ON THE PLANS - USE MB-1.
2. FIRST VERTICAL BAR TO BE WITHIN 8" OF END OF BEAM.
3. SEE TYPICAL ELEVATION - VIEW OF BEAM.
4. VERTICAL REINFORCING SHALL HAVE HOOKS TOP AND BOTTOM.

## MASONRY JAMB SCHEDULE

| MARK | NOMINAL THICKNESS | VERTICAL REINF. | TIES | CONFIG. | OPENING ① SIZE | COMMENTS |
|---|---|---|---|---|---|---|
| MJ-1 | 8" | (2) #5 | --- | A | 2'-8" TO 6'-0" | |

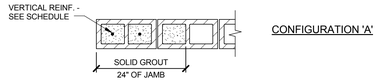
NOTES:
1. WHERE SPECIFIC JAMBS ARE NOT NOTED ON THE PLANS - REFER TO OPENING SIZE FOR REQUIRED REINFORCING AND CONFIGURATION.
2. ALL VERT. REINFORCING SHALL HAVE MATCHING DOWELS CAST INTO FOUNDATIONS.
3. HORIZONTAL REINFORCING NOT SHOWN.
4. JAMBS TO BE GROUTED SOLID.




SECTION

NOTE: SEE TYPICAL DETAIL FOR LINTELS W/ BRICK VENEER

PLAN




CONFIGURATION 'A'

## MASONRY WALL SCHEDULE

| MARK | THICK | VERT. REINF. | | HORIZ. REINF. | | | BOND BEAM REINF. | COMMENTS |
|---|---|---|---|---|---|---|---|---|
| | | SIZE | SPACE | NO. | SIZE | SPACE | @ ELEVATED FLOOR | |
| MW-1 | 8" | #5 | 32" | (2) | #4 | 48" | (2) #4 | |
| MW-2 | 8" | #5 | 32" | (2) | #4 | 48" | (2) #4 | SOLID GROUT |
| MW-3 | 12" | #5 | 16" | (2) | #4 | 48" | N/A | |

NOTES:

1. FOR ANY CMU WALLS NOT SPECIFICALLY CALLED OUT IN PLANS, USE MW1
2. VERT. REINFORCING TO BE @ CL. OF WALL UNLESS OTHERWISE NOTED.
3. SOLID GROUTING OF WALLS IS UNACCEPTABLE EXCEPT WHERE SPECIFICALLY NOTED.
4. SEE STRUCTURAL NOTES FOR ADDITIONAL INFORMATION.
5. A BOND BEAM SHALL BE LOCATED IN THE FIRST COURSE ABOVE THE FOUNDATION IF VERTICAL DOWELS HAVE BEEN BENT TO ALIGN WITH VERTICAL CELLS, WHETHER OR NOT MASONRY WEBS HAVE BEEN CUT

VCBO
ARCHITECTURE
VALENTINER
CRANE
BRUNJES
ONYON

PROFESSIONAL STRUCTURAL ENGINEER
Jeremy A. Achter
No. 353467
10.2.12
STATE OF UTAH

VCBO ARCHITECTURE
524 SOUTH 600 EAST
SALT LAKE CITY, UT 84102
Phone: (801) 575-8800
Fax: (801) 531-9850
WWW: www.vcbo.com

DFCM CODE COMPLIANCE STAMP

A R W ENGINEERS
structural consultants
1599 W. Park Dr. Ogden, Utah 84404
ph: 801.782.6008 fx: 801.782.4656

# Student Activity Center
## Stromberg Addition - BID SET
Weber State University
3750 Harrison Blvd. Ogden, UT 84408

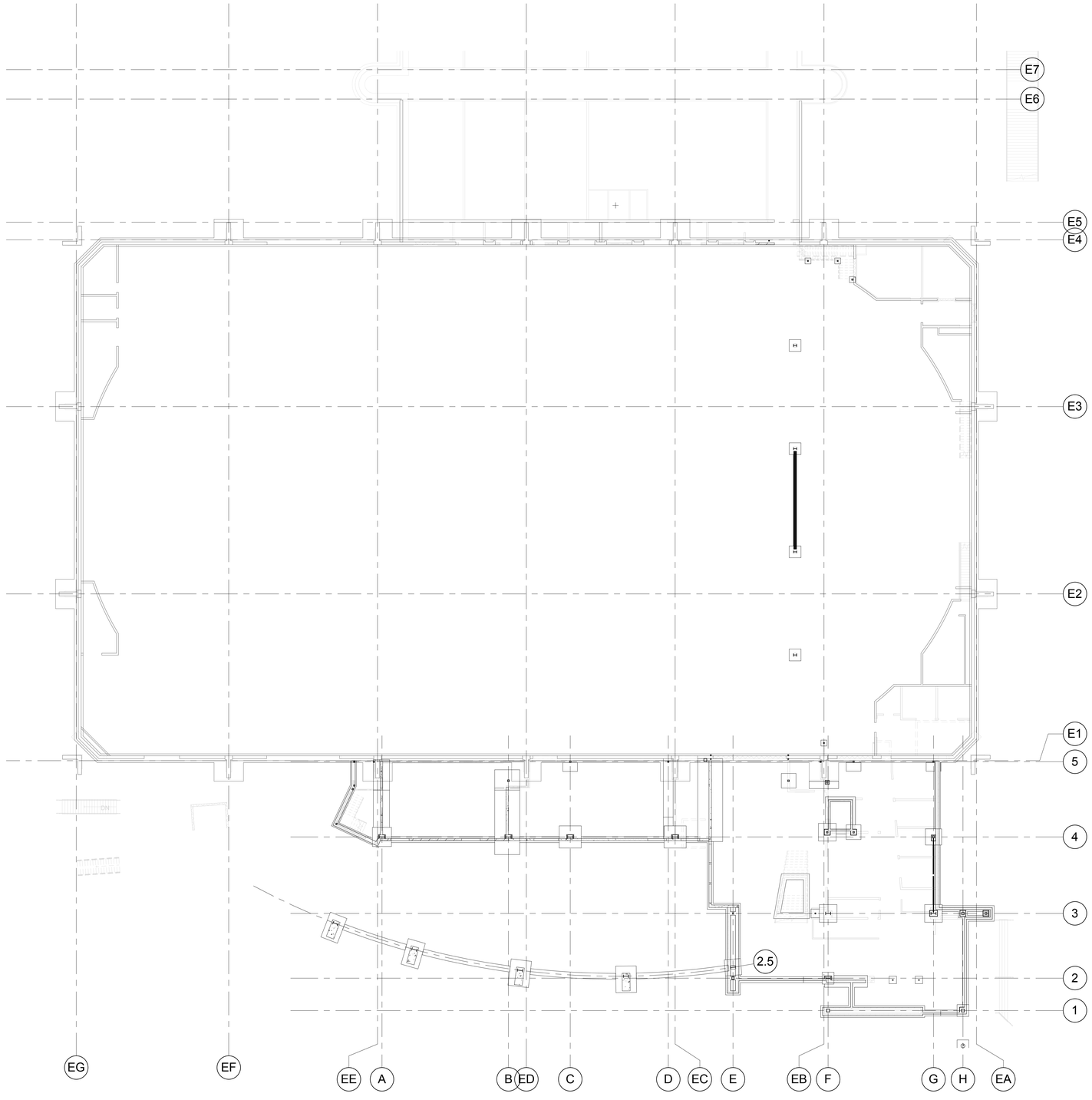
| Rev # | Date | Description |
|---|---|---|

Job # 12475
CAD File
Drawn BLP Checked JLA
Date 10.03.2012
Owner # DFCM #12031810

SCHEDULES

S003

10/2/2012 6:38:48 PM



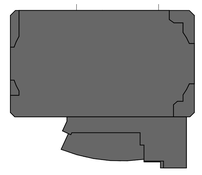

OVERALL FOOTING AND FOUNDATION PLAN

SCALE : 1/16" = 1'-0"

A S110

NORTH

KEY PLAN



VCBO
ARCHITECTURE
VALENTINER
CRANE
BRUNJES
ONYON

PROFESSIONAL STRUCTURAL ENGINEER
Jeremiah Achter
No. 353467
10.2.12
STATE OF UTAH

VCBO ARCHITECTURE
524 SOUTH 600 EAST
SALT LAKE CITY, UT 84102
Phone: (801) 575-8800
Fax: (801) 531-9850
WWW: www.vcbo.com

DFCM CODE COMPLIANCE STAMP

A R W ENGINEERS
structural consultants
1556 W. Park Dr. Ogden, Utah 84404
ph. 801.782.6008 fx. 801.782.4656

# Student Activity Center
## Stromberg Addition - BID SET
Weber State University
3750 Harrison Blvd. Ogden, UT 84408

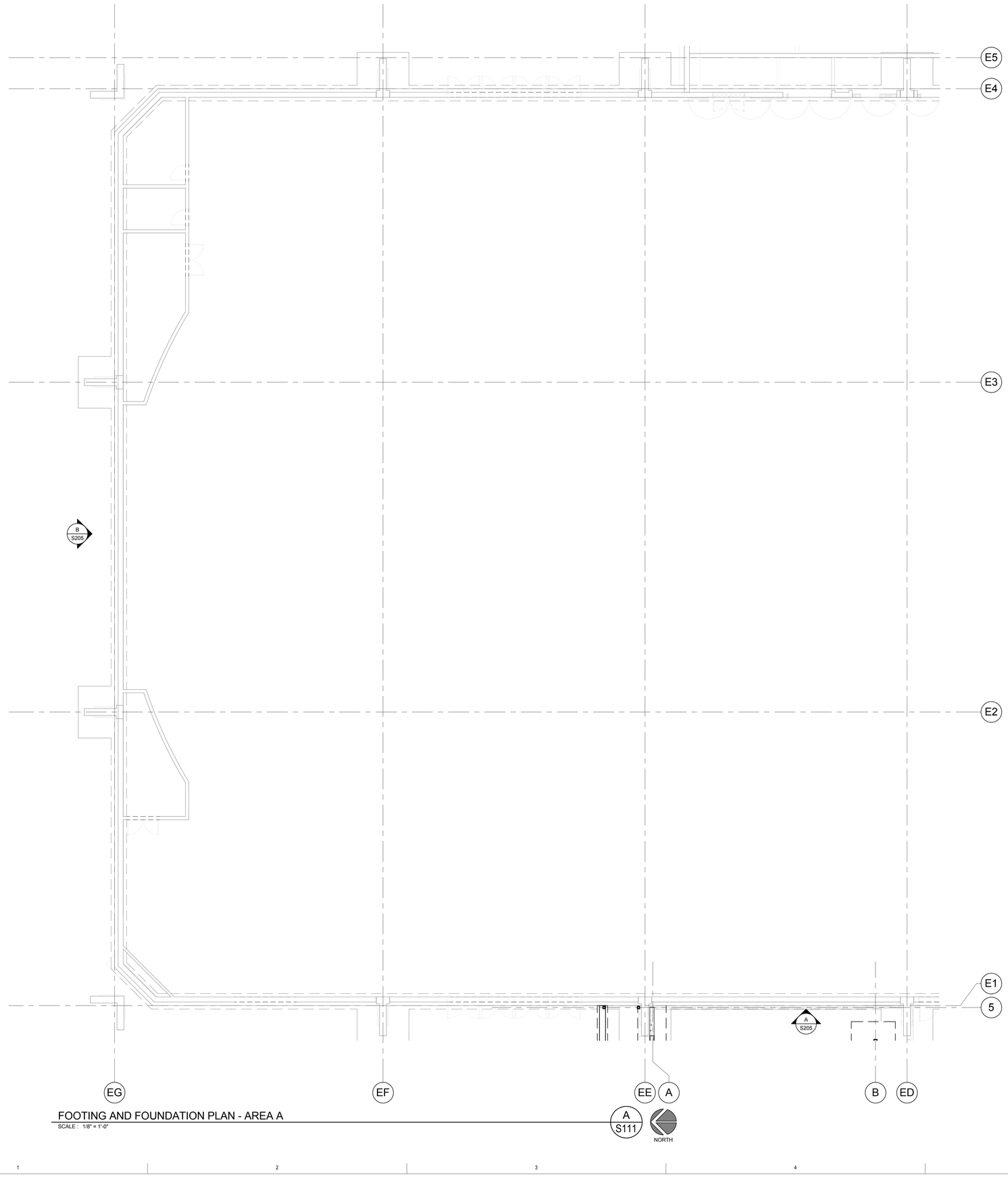
| Rev # | Date | Description |
|---|---|---|

Job # 12475
CAD File
Drawn BLP Checked JLA
Date 10.03.2012
Owner # DFCM #12031810

OVERALL FOOTING AND FOUNDATION PLAN

S110

10/2/2012 6:38:47 PM



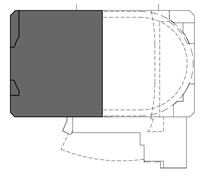

FOOTING AND FOUNDATION PLAN - AREA A

SCALE : 1/8" = 1'-0"

A S111

NORTH

KEY PLAN



VCBO
ARCHITECTURE
VALENTINER
CRANE
BRUNJES
ONYON

PROFESSIONAL STRUCTURAL ENGINEER
Jeremiah Achter
No. 353467
10.2.12
STATE OF UTAH

VCBO ARCHITECTURE
524 SOUTH 600 EAST
SALT LAKE CITY, UT 84102
Phone: (801) 575-8800
Fax: (801) 531-9850
WWW: www.vcbo.com

DFCM CODE COMPLIANCE STAMP

A R W ENGINEERS
structural consultants
1556 W. Park Cir. Ogden, Utah 84404
ph: 801.782.6008 fx: 801.782.4656

# Student Activity Center
## Stromberg Addition - BID SET
Weber State University
3750 Harrison Blvd. Ogden, UT 84408

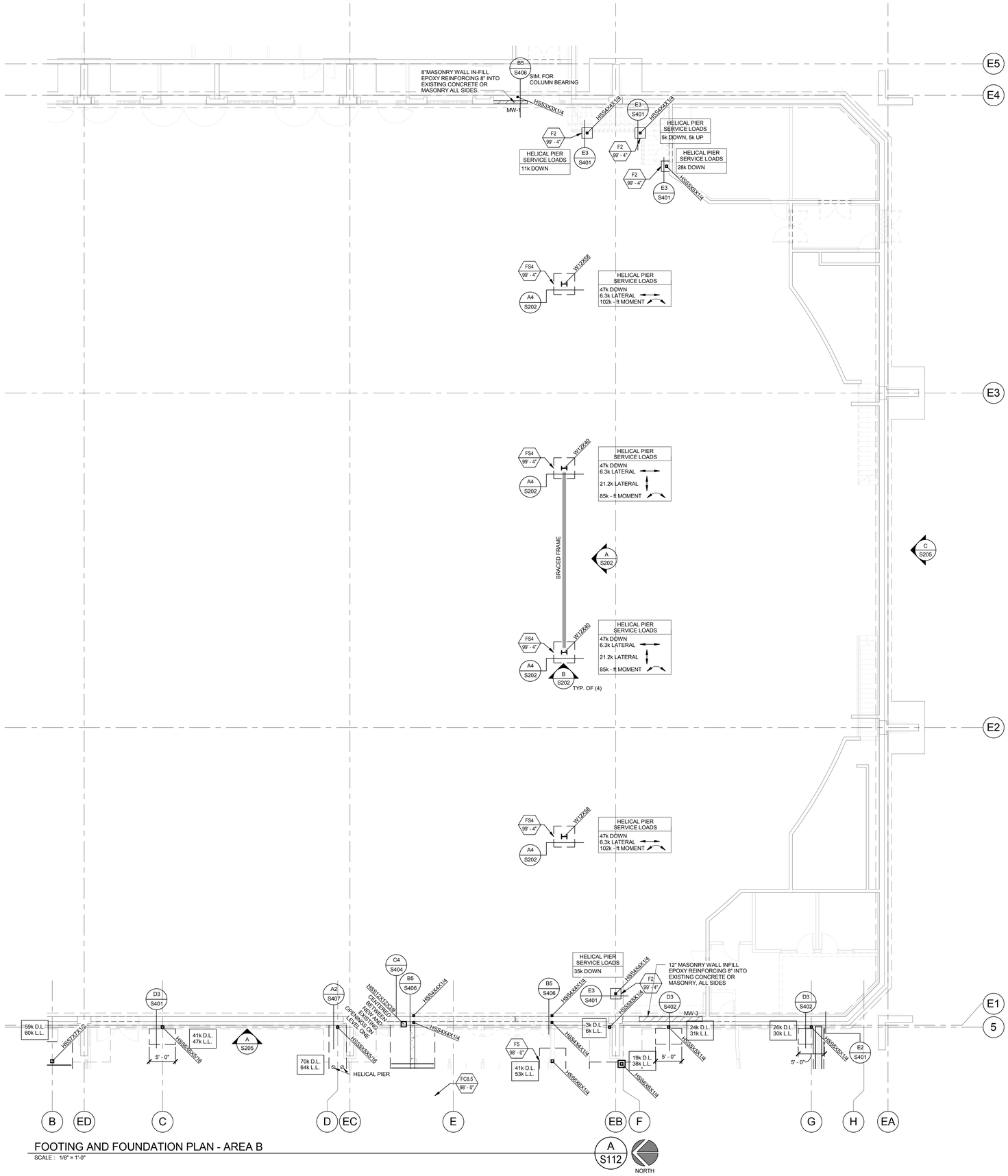
| Rev # | Date | Description |
|---|---|---|

Job # 12475
CAD File
Drawn BLP Checked JLA
Date 10.03.2012
Owner # DFCM #12031810

AREA A FOOTING AND FOUNDATION PLAN

S111

10/2/2012 6:38:46 PM




FOOTING AND FOUNDATION PLAN - AREA B

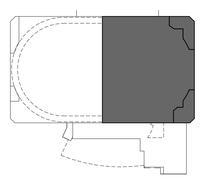
SCALE : 1/8" = 1'-0"

A S112

NORTH

NOTE:
SEE SHEET S113 FOR FOOTING
AND FOUNDATION NOTES.

KEY PLAN



VCBO
ARCHITECTURE
VALENTINER
CRANE
BRUNJES
ONYON

Jeremy A. Achter
No. 353467
10.2.12
PROFESSIONAL STRUCTURAL ENGINEER
STATE OF UTAH

VCBO ARCHITECTURE
524 SOUTH 600 EAST
SALT LAKE CITY, UT 84102
Phone: (801) 575-8800
Fax: (801) 531-9850
WWW: www.vcbo.com

DFCM CODE COMPLIANCE STAMP

ARW ENGINEERS
structural consultants
1599 W. Park Dr. Ogden, Utah 84404
ph: 801.782.6008 fx: 801-782-4656

# Student Activity Center
## Stromberg Addition - BID SET
Weber State University
3750 Harrison Blvd. Ogden, UT 84408

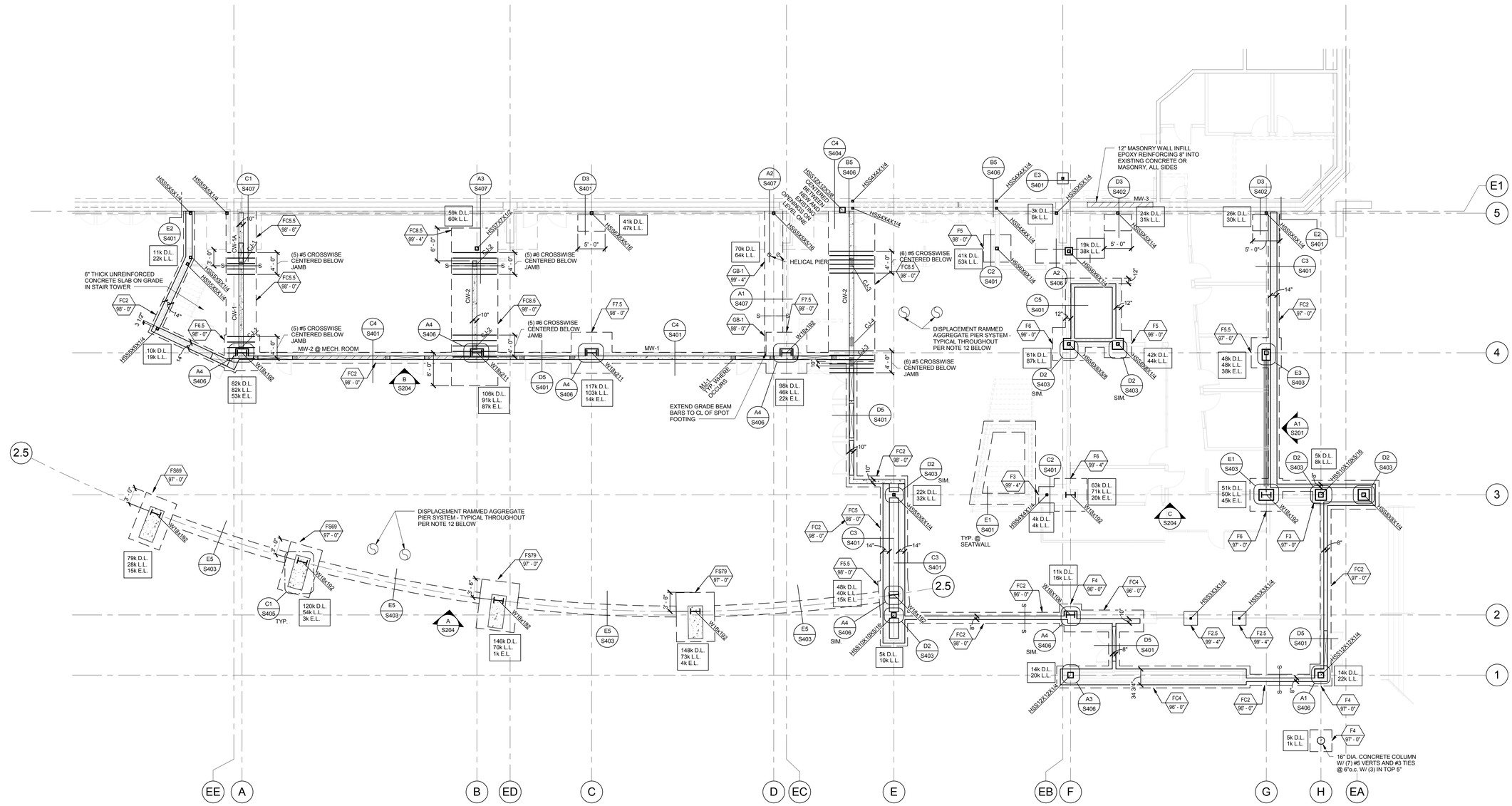
| Rev # | Date | Description |
|---|---|---|

Job # 12475
CAD File
Drawn BLP Checked JLA
Date 10.03.2012
Owner # DFCM #12031810

AREA B FOOTING AND FOUNDATION PLAN

S112

10/2/2012 6:38:45 PM




## FOOTING AND FOUNDATION PLAN - AREA C

SCALE : 1/8" = 1'-0"

A S113

NORTH

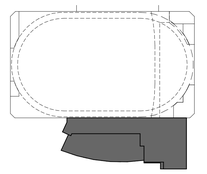
### FOOTING & FOUNDATION NOTES

1. SEE SHEET S001 FOR GENERAL STRUCTURAL NOTES.
2. ALL FOOTINGS SHALL BE PLACED ON SOIL WHICH HAS BEEN PREPARED PER THE SOILS REPORT FOR THE BEARING PRESSURE SHOWN IN THE STRUCTURAL NOTES.
3. ALL COLUMN FOOTINGS SHALL BE CENTERED BELOW COLUMNS U.N.O.
4. VERIFY ALL DIMENSIONS WITH DRAWINGS AND NOTIFY ENGINEER OF ANY DISCREPANCIES FOUND.
5. SEE SHEET S002 FOR FOOTING SCHEDULE.
6. PROVIDE DOWELS IN FOOTINGS / FOUNDATIONS TO MATCH VERTICAL WALL REINFORCING U.N.O.
7. SEE SHEET S401 FOR TYPICAL FOOTING AND FOUNDATION DETAILS.
8. ALL EXTERIOR WALL FOOTINGS TO BEAR A MINIMUM DIMENSION BELOW EXTERIOR GRADE AS NOTED IN GENERAL STRUCTURAL NOTES.
9. FOUNDATION WALLS ARE DESIGNED AND DETAILED FOR THE COMPLETED CONDITION. CONTRACTOR IS RESPONSIBLE FOR MEANS AND METHODS OF CONSTRUCTION. BACKFILLED WALLS SHALL BE ADEQUATELY BRACED DURING CONSTRUCTION AND BACKFILLING TO PRODUCE PLUMB AND TRUE FINISHED WALLS.
10. ALL ANCHORS, HOLD-DOWNS, ANCHOR BOLTS, DOWELS, EMBEDDED ITEMS, ETC. SHALL BE HELD IN PLACE PRIOR TO AND DURING CONCRETE AND/OR GROUT PLACEMENT.
11. COORDINATE ALL FOOTING DEPTHS (INTERIOR AND EXTERIOR) WITH DRAINS, CONDUITS, ETC. THAT MAY INTERFERE WITH FOOTINGS.
12. DISPLACEMENT RAMMED AGGREGATE PIERS® ARE REQUIRED AT A UNIFORM AND CONSISTENT SPACING AND DEPTH WITHIN THE FOOTPRINT OF THE BUILDING ADDITION AND ALONG THE FRAMELINE ALONG GRID 2.5. PIERS, PIER LAYOUT, PIER SPACING AND DEPTH SHALL BE DESIGNED AND CONSTRUCTED BY A LICENSED INSTALLER PER THE SOILS REPORT. MAXIMUM COLUMN SERVICE LOADS HAVE BEEN PROVIDED ON THIS SHEET FOR USE IN DESIGNING THE DISPLACEMENT RAMMED AGGREGATE PIER SYSTEM.

### CONCRETE SLAB NOTES

1. SLAB ON GRADE SHALL BE 4" THICK CONCRETE U.N.O. SLAB SHALL BE UNDERLAIN BY FREE DRAINING MATERIAL AS PRESCRIBED IN THE SOILS REPORT.
2. SEE SHEET S401 FOR CONTROL AND CONSTRUCTION JOINT INFORMATION.

KEY PLAN



VCBO
ARCHITECTURE
VALENTINER
CRANE
BRUNJES
ONYON

PROFESSIONAL STRUCTURAL ENGINEER
Jeremy A. Achter
No. 353467
10.2.12
STATE OF UTAH

VCBO ARCHITECTURE
524 SOUTH 600 EAST
SALT LAKE CITY, UT 84102
Phone: (801) 575-8800
Fax: (801) 531-9850
www: www.vcbo.com

DFCM CODE COMPLIANCE STAMP

ARW ENGINEERS
structural consultants
1556 W. Park Dr. Ogden, Utah 84404
ph: 801.782.6006 fx: 801.782.4656

# Student Activity Center
## Stromberg Addition - BID SET
Weber State University
3750 Harrison Blvd. Ogden, UT 84408

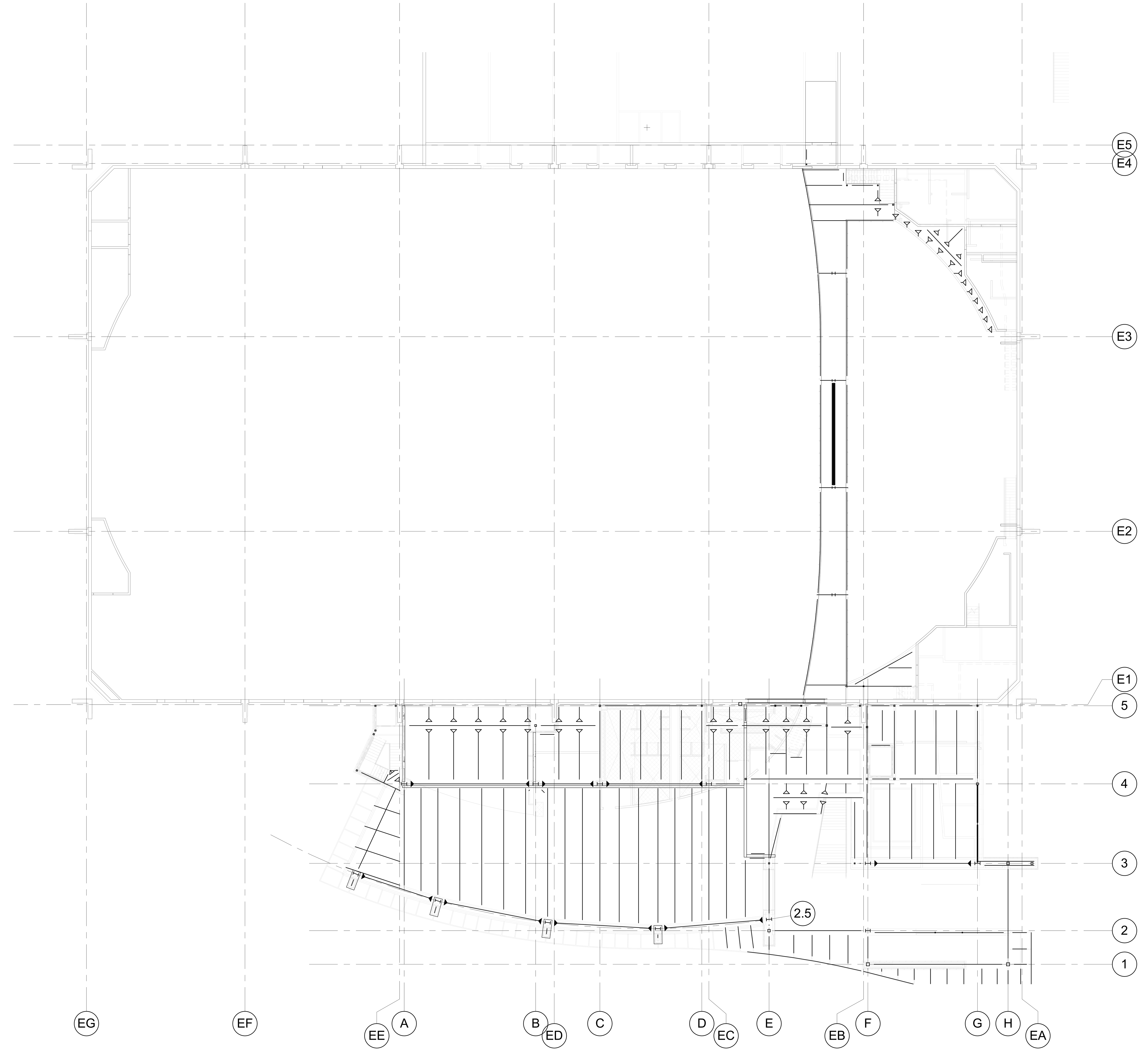
| Rev # | Date | Description |
|---|---|---|

Job # 12475
CAD File
Drawn BLP Checked JLA
Date 10.03.2012
Owner # DFCM #12031810

AREA C FOOTING AND FOUNDATION PLAN

S113

10/2/2012 6:38:44 PM



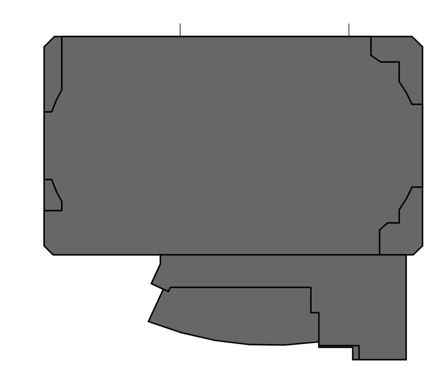

SECOND FLOOR FRAMING PLAN - OVERALL

SCALE : 1/16" = 1'-0"

A
S120

NORTH

KEY PLAN




VCBO
ARCHITECTURE
VALENTINER
CRANE
BRUNJES
ONYON

PROFESSIONAL STRUCTURAL ENGINEER
Jeremy L. Achter
No. 353467
10-2-12
STATE OF UTAH

VCBO ARCHITECTURE
524 SOUTH 600 EAST
SALT LAKE CITY, UT 84102
Phone: (801) 575-8800
Fax: (801) 531-9850
WWW: www.vcbo.com


DFCM CODE COMPLIANCE STAMP


ARW ENGINEERS
structural consultants


# Student Activity Center
## Stromberg Addition - BID SET
Weber State University
3750 Harrison Blvd. Ogden, UT 84408

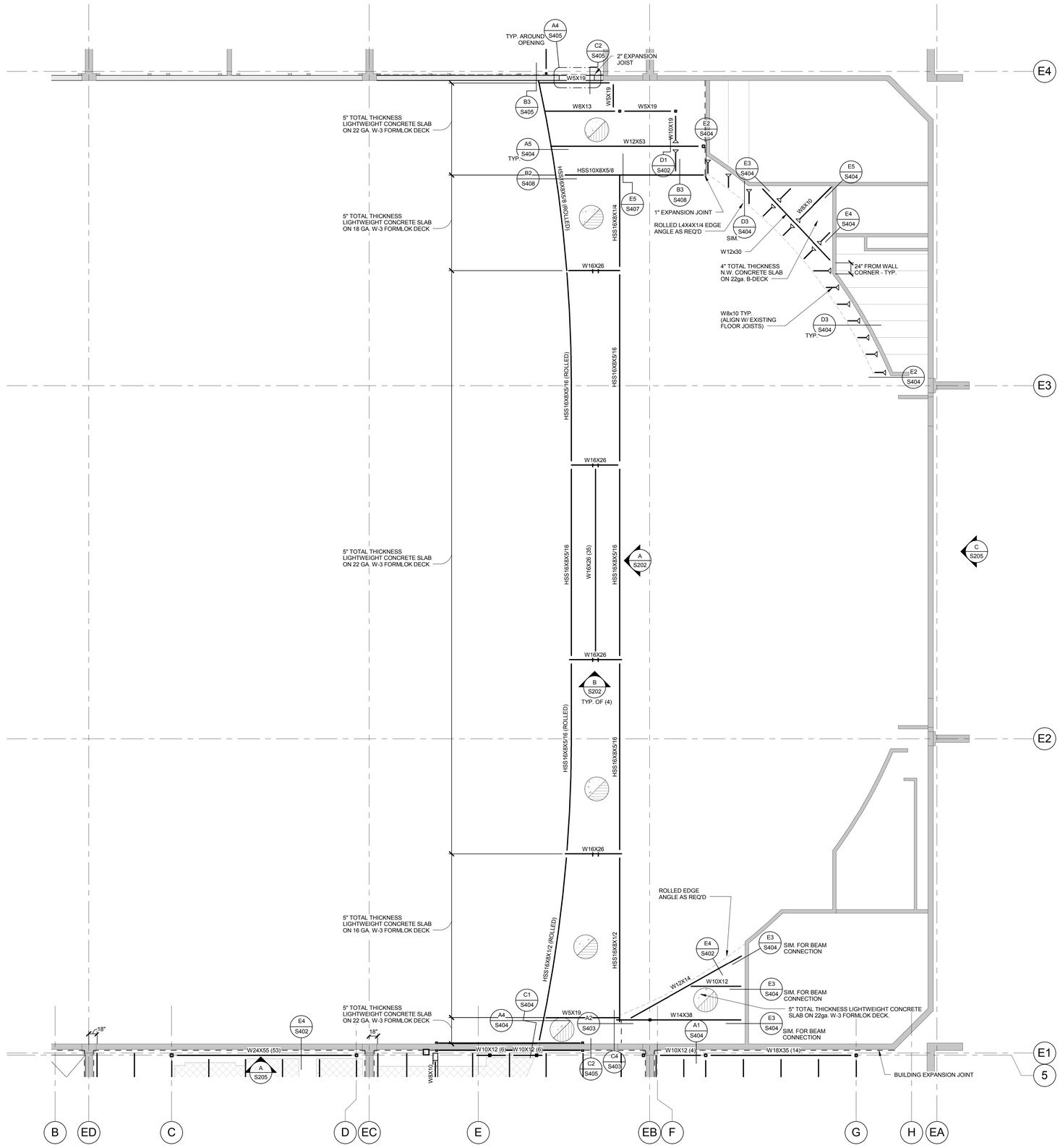
| Rev # | Date | Description |
|---|---|---|

Job # 12475
CAD File
Drawn BLP Checked JLA
Date 10.03.2012
Owner # DFCM #12031810

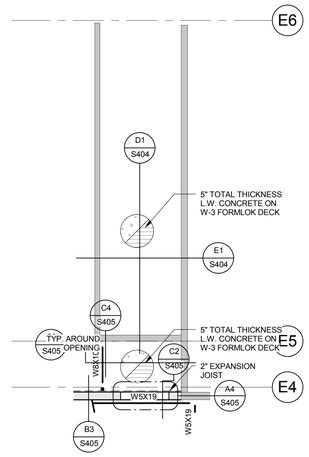
OVERALL SECOND FLOOR FRAMING PLAN

S120

10/2/2012 6:38:42 PM



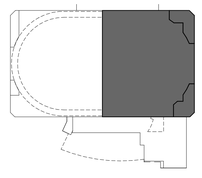

SECOND FLOOR FRAMING PLAN - AREA B
SCALE : 1/8" = 1'-0"
A S122




SECOND FLOOR FRAMING PLAN
SCALE : 1/8" = 1'-0"
B S122

NOTE:
SEE SHEET S123 FOR FLOOR FRAMING NOTES.

KEY PLAN



VCBO
ARCHITECTURE
VALENTINER
CRANE
BRUNJES
ONYON

PROFESSIONAL STRUCTURAL ENGINEER
Jeremy A. Achter
No. 353467
10.2.12
STATE OF UTAH

VCBO ARCHITECTURE
524 SOUTH 600 EAST
SALT LAKE CITY, UT 84102
Phone: (801) 575-8800
Fax: (801) 531-9850
WWW: www.vcbo.com

DFCM CODE COMPLIANCE STAMP

ARW ENGINEERS
structural consultants
1556 W. Park Dr. Ogden, Utah 84404
ph: 801.782.6008 fx: 801-782-6056

# Student Activity Center
## Stromberg Addition - BID SET
Weber State University
3750 Harrison Blvd. Ogden, UT 84408

| Rev # | Date | Description |
|---|---|---|

Job # 12475
CAD File
Drawn BLP Checked JLA
Date 10.03.2012
Owner # DFCM #12031810

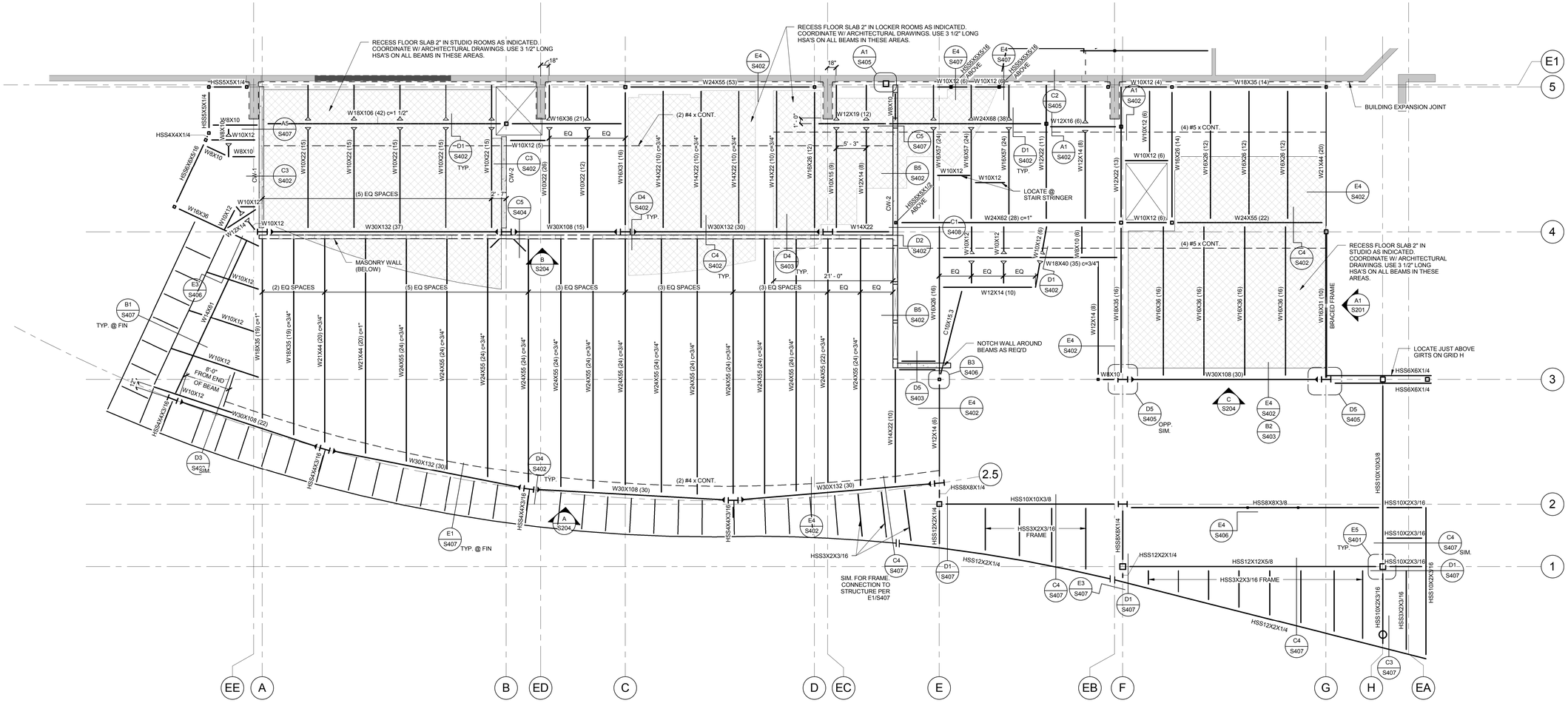
AREA B SECOND FLOOR FRAMING PLAN

S122

10/2/2012 6:38:39 PM

| EXPANSION JOINT SIZE REQUIREMENTS | | |
|---|---|---|
| LEVEL | CLEAR DIMENSION EAST - WEST | CLEAR DIMENSION NORTH - SOUTH |
| SECOND FLOOR | 2" | 2" |
| MEZZANINE | 4 1/2" | 3" |
| ROOF | 7" | 3" |

NOTES:
1. TABULATED VALUES REPRESENT MINIMUM CLEAR DISTANCE BETWEEN NEW CONSTRUCTION AND EXISTING STRUCTURE.
2. COORDINATE ACTUAL DIMENSIONS WITH THE ARCHITECTURAL DRAWINGS.




## SECOND FLOOR FRAMING PLAN - AREA C

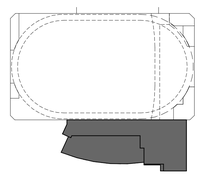
SCALE : 1/8" = 1'-0"

A S123 NORTH

FLOOR FRAMING NOTES:

1. SEE SHEET S001 FOR GENERAL STRUCTURAL NOTES.
2. ADDITION CONCRETE FLOOR SLABS TO BE 6-1/2" THICK ON 20 GAUGE "W2" DECK REINFORCED WITH FIBERMESH (U.N.O.). SLAB THICKNESS IS TOTAL FROM BOTTOM OF DECK TO TOP OF CONCRETE.
3. RUNNING TRACK SLAB TO BE 5" THICK LIGHT-WEIGHT CONCRETE ON 20 GA. "W3" FORMLOK DECK REINFORCED WITH FIBERMESH.
4. BRIDGE SLAB TO BE 5" THICK LIGHT-WEIGHT CONCRETE ON 22 GA. "W3" FORMLOK DECK REINFORCED WITH FIBERMESH.
5. ( ) DENOTES SPACING OF 3/4" DIAMETER X 4-1/2" LONG HSA ALONG BEAM TOP FLANGE.
6. C=< > DENOTES AMOUNT OF CAMBER IN W BEAM AT MIDSPAN.
7. PROVIDE TYPICAL SLAB CLOSURE AT ALL OPENINGS AND SLAB EDGES AS PER DETAIL S402. TYPICAL UNLESS NOTED OTHERWISE.
8. SEE ARCHITECTURAL DRAWINGS FOR FINISHED FLOOR ELEVATIONS.
9. WHERE STEEL FLOOR DECK RUNS PERPENDICULAR TO BEAMS WITH HSA, HSA SHALL BE FIELD WELDED TO BEAMS THRU DECK MATERIAL.
10. WHERE STEEL FLOOR DECK RUNS PARALLEL TO BEAMS WITH HSA, A 2-1/2" X CONTINUOUS EXPOSED BEAM FLANGE SURFACE IS REQUIRED FOR CONCRETE COVER OF HSA.
11. DO NOT PROVIDE CONTROL JOINTS IN SUSPENDED CONCRETE SLABS EXCEPT WHERE SPECIFICALLY CALLED OUT.
12. CONSTRUCTION JOINTS IN SLABS ON DECK SHALL NOT BE CLOSER THAN 12' TO HSA.
13. AT NON-COMPOSITE BEAMS AND JOISTS AND WHERE HSA'S ARE SPACED AT MORE THAN 12" O.C., WELD DECK TO SUPPORT WITH 3/4" DIAMETER PUDDLE WELDS AT 12" O.C.

KEY PLAN




VCBO ARCHITECTURE
524 SOUTH 600 EAST
SALT LAKE CITY, UT 84102
Phone: (801) 575-8800
Fax: (801) 531-9850
www: www.vcbo.com


Jeremy L. Achter No. 353467 10.2.12 PROFESSIONAL STRUCTURAL ENGINEER STATE OF UTAH

DFCM CODE COMPLIANCE STAMP

ENGINEERS structural consultants 1556 W. Park Dr. Ogden, Utah 84404 ph: 801.782.6006 fx: 801.782.4656

# Student Activity Center
## Stromberg Addition - BID SET
Weber State University
3750 Harrison Blvd. Ogden, UT 84408

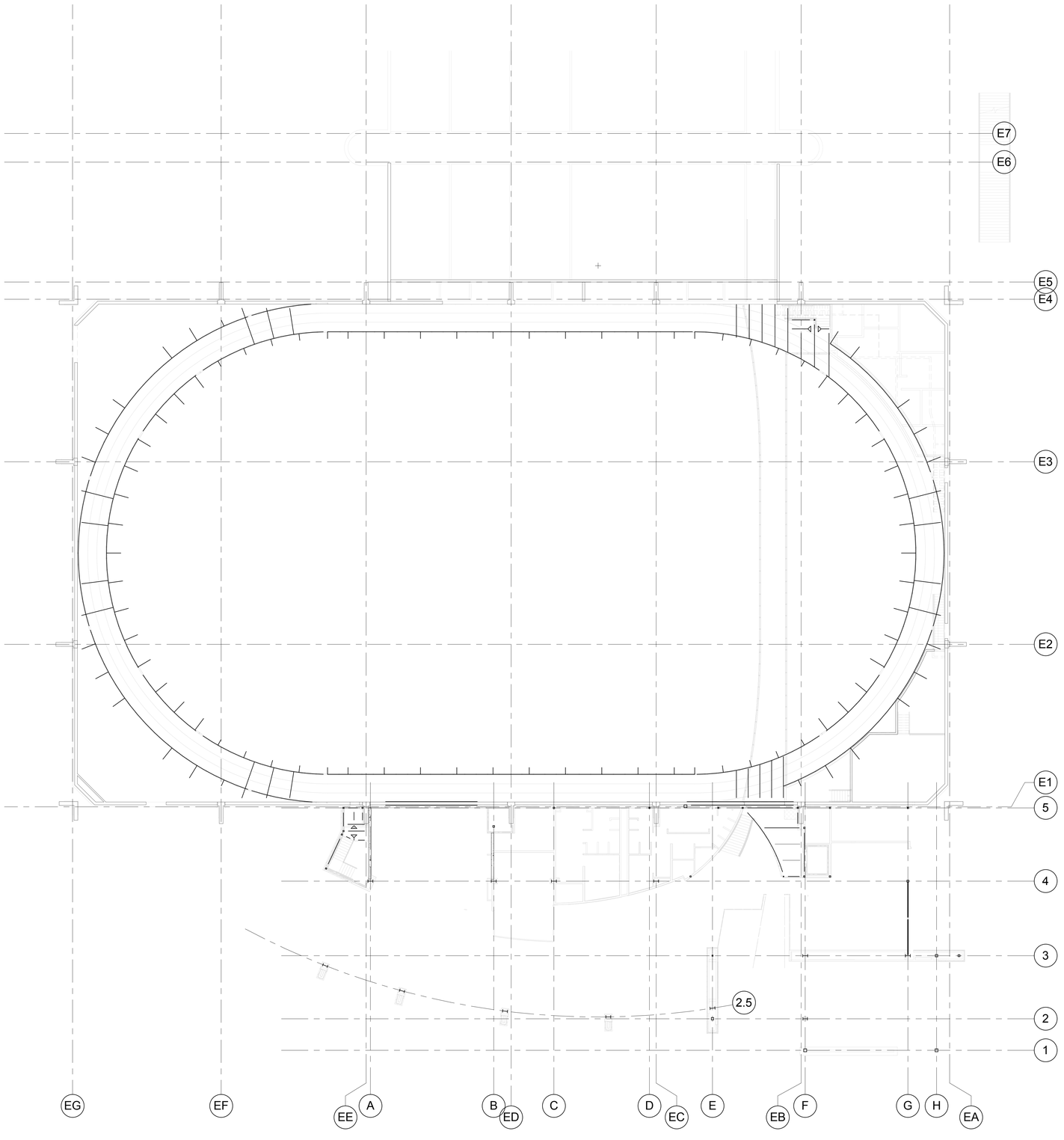
| Rev # | Date | Description |
|---|---|---|

Job # 12475
CAD File
Drawn BLP Checked JLA
Date 10.03.2012
Owner # DFCM #12031810

AREA C SECOND FLOOR FRAMING PLAN

S123

10/2/2012 6:38:34 PM



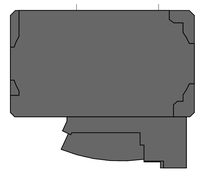

RUNNING TRACK - OVERALL

SCALE : 1/16" = 1'-0"

A S130

NORTH

KEY PLAN



VCBO
ARCHITECTURE
VALENTINER
CRANE
BRUNJES
ONYON

PROFESSIONAL STRUCTURAL ENGINEER
Jeremiah Achter
No. 353467
10.2.12
STATE OF UTAH

VCBO ARCHITECTURE
524 SOUTH 600 EAST
SALT LAKE CITY, UT 84102
Phone: (801) 575-8800
Fax: (801) 531-9850
WWW: www.vcbo.com

DFCM CODE COMPLIANCE STAMP

A R W ENGINEERS
structural consultants
1556 W. Park Dr. Ogden, Utah 84404
ph: 801.782.6008 fx: 801.782.4656

# Student Activity Center
## Stromberg Addition - BID SET
Weber State University
3750 Harrison Blvd. Ogden, UT 84408

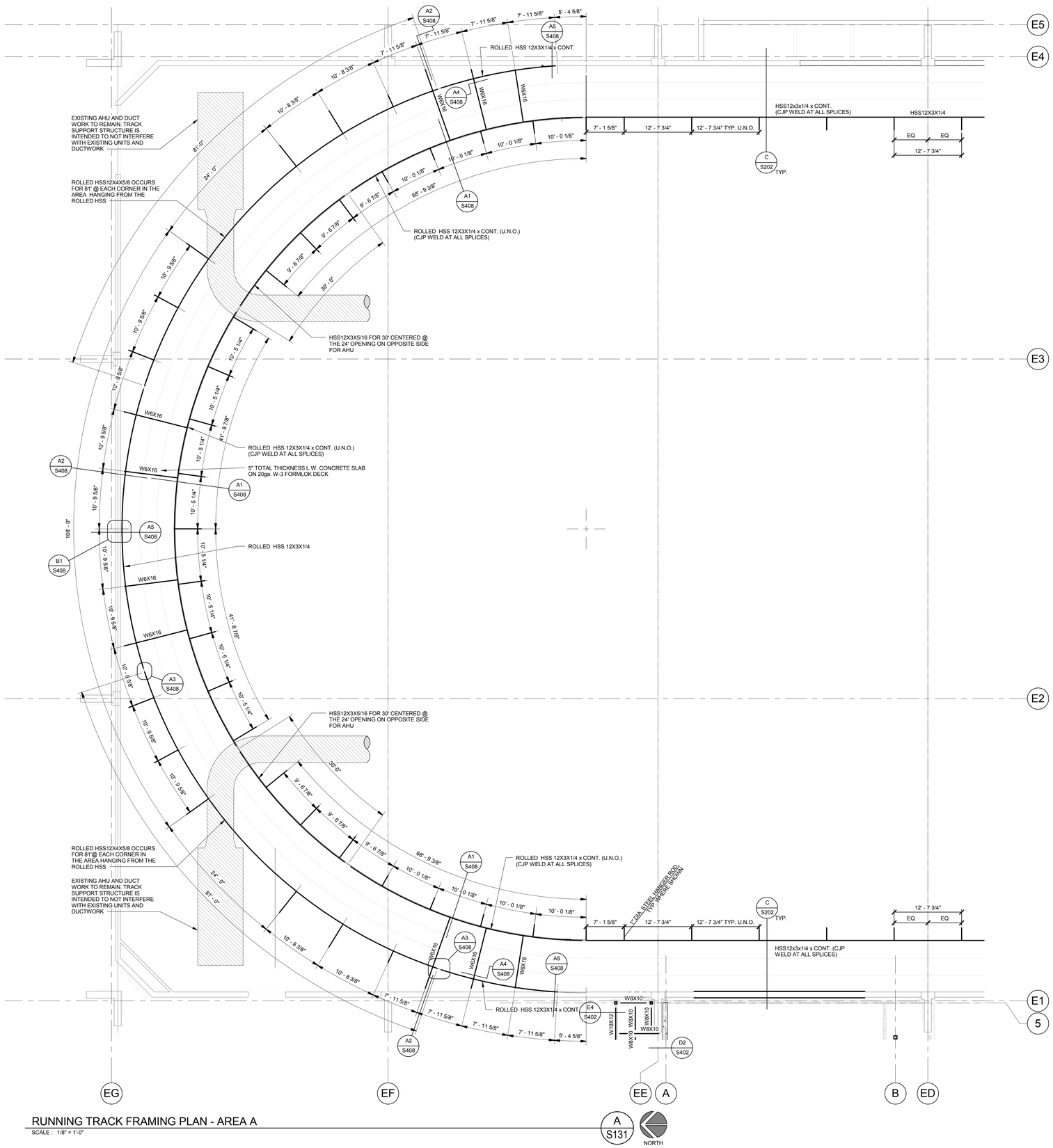
| Rev # | Date | Description |
|---|---|---|

Job # 12475
CAD File
Drawn BLP Checked JLA
Date 10.03.2012
Owner # DFCM #12031810

OVERALL RUNNING TRACK AND MEZZANINE FRAMING PLAN

S130

10/2/2012 6:38:30 PM




RUNNING TRACK FRAMING PLAN - AREA A

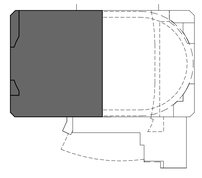
SCALE : 1/8" = 1'-0"

A S131

NORTH

NOTE:
FLOOR FRAMING NOTES ON SHEET S123.

KEY PLAN



VCBO
ARCHITECTURE
VALENTINER
CRANE
BRUNJES
ONYON

PROFESSIONAL STRUCTURAL ENGINEER
Jeremy A. Achter
No. 353467
10.2.12
STATE OF UTAH

VCBO ARCHITECTURE
524 SOUTH 600 EAST
SALT LAKE CITY, UT 84102
Phone: (801) 575-8800
Fax: (801) 531-9850
WWW: www.vcbo.com

DFCM CODE COMPLIANCE STAMP

ARW ENGINEERS
structural consultants
1599 W. Park Dr. Ogden, Utah 84404
ph: 801.782.6008 fx: 801.782.4656

# Student Activity Center
## Stromberg Addition - BID SET
Weber State University
3750 Harrison Blvd. Ogden, UT 84408

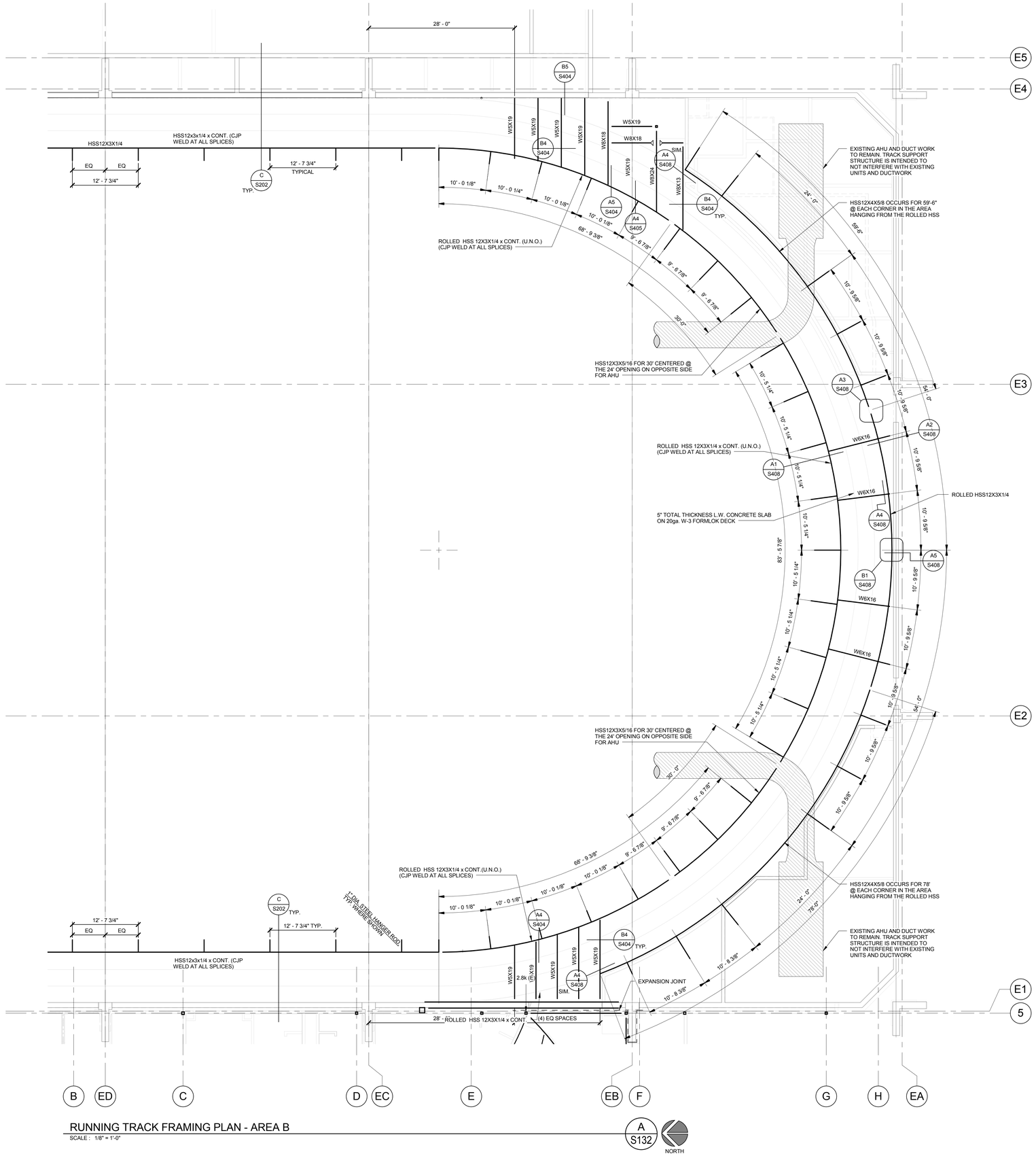
| Rev # | Date | Description |
|---|---|---|

Job # 12475
CAD File
Drawn BLP Checked JLA
Date 10.03.2012
Owner # DFCM #12031810

AREA A RUNNING TRACK AND MEZZ. FRAMING PLAN

S131

10/2/2012 6:38:27 PM




RUNNING TRACK FRAMING PLAN - AREA B

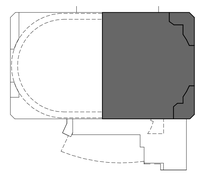
SCALE : 1/8" = 1'-0"

A S132

NORTH

NOTE:
FLOOR FRAMING NOTES ON SHEET S123.

KEY PLAN




VCBO
ARCHITECTURE
VALENTINER
CRANE
BRUNJES
ONYON

PROFESSIONAL STRUCTURAL ENGINEER
Jeremy A. Achter
No. 353467
10.2.12
STATE OF UTAH

VCBO ARCHITECTURE
524 SOUTH 600 EAST
SALT LAKE CITY, UT 84102
Phone: (801) 575-8800
Fax: (801) 531-9850
WWW: www.vcbo.com


DFCM CODE COMPLIANCE STAMP


ARW ENGINEERS
structural consultants
1599 W. Park Dr. Ogden, Utah 84404
ph: 801.782.6008 fx: 801.782.4656


# Student Activity Center
## Stromberg Addition - BID SET
Weber State University
3750 Harrison Blvd. Ogden, UT 84408

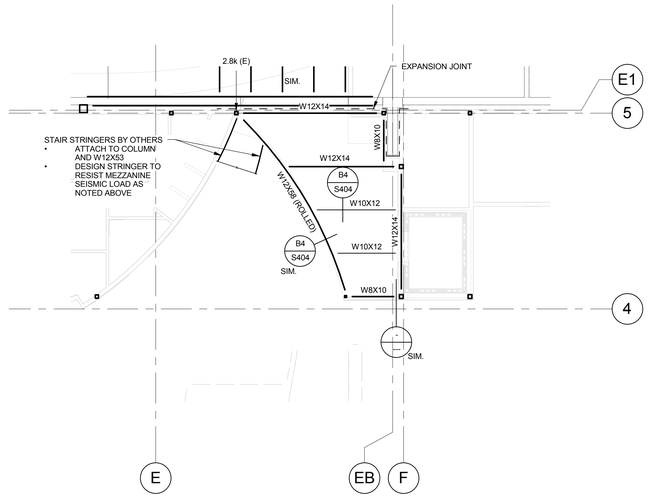
| Rev # | Date | Description |
|---|---|---|

Job # 12475
CAD File
Drawn BLP Checked JLA
Date 10.03.2012
Owner # DFCM #12031810

AREA B RUNNING TRACK AND MEZZ. FRAMING PLAN

S132

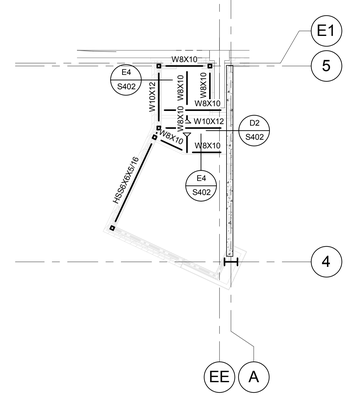
10/2/2012 6:38:25 PM




MEZZANINE FRAMING PLAN — A S133

SCALE : 1/8" = 1'-0"

NORTH




LEVEL 03 NEW TRACK - AREA C STAIR — B S133

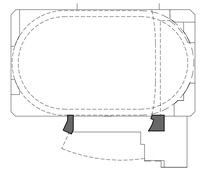
SCALE : 1/8" = 1'-0"

NORTH

| EXPANSION JOINT SIZE REQUIREMENTS | | |
|---|---|---|
| LEVEL | CLEAR DIMENSION EAST - WEST | CLEAR DIMENSION NORTH - SOUTH |
| SECOND FLOOR | 2" | 2" |
| MEZZANINE | 4 1/2" | 3" |
| ROOF | 7" | 3" |

NOTES:
1. TABULATED VALUES REPRESENT MINIMUM CLEAR DISTANCE BETWEEN NEW CONSTRUCTION AND EXISTING STRUCTURE.
2. COORDINATE ACTUAL DIMENSIONS WITH THE ARCHITECTURAL DRAWINGS.

KEY PLAN



VCBO
ARCHITECTURE
VALENTINER
CRANE
BRUNJES
ONYON

PROFESSIONAL STRUCTURAL ENGINEER
Jeremy L. Achter
No. 353467
10.2.12
STATE OF UTAH

VCBO ARCHITECTURE
524 SOUTH 600 EAST
SALT LAKE CITY, UT 84102
Phone: (801) 575-8800
Fax: (801) 531-9850
WWW: www.vcbo.com

DFCM CODE COMPLIANCE STAMP

ARW ENGINEERS
structural consultants
1594 W. Park Dr. Ogden, Utah 84404
ph: 801.782.6008 fx: 801.782.4656

# Student Activity Center
## Stromberg Addition - BID SET
Weber State University
3750 Harrison Blvd. Ogden, UT 84408

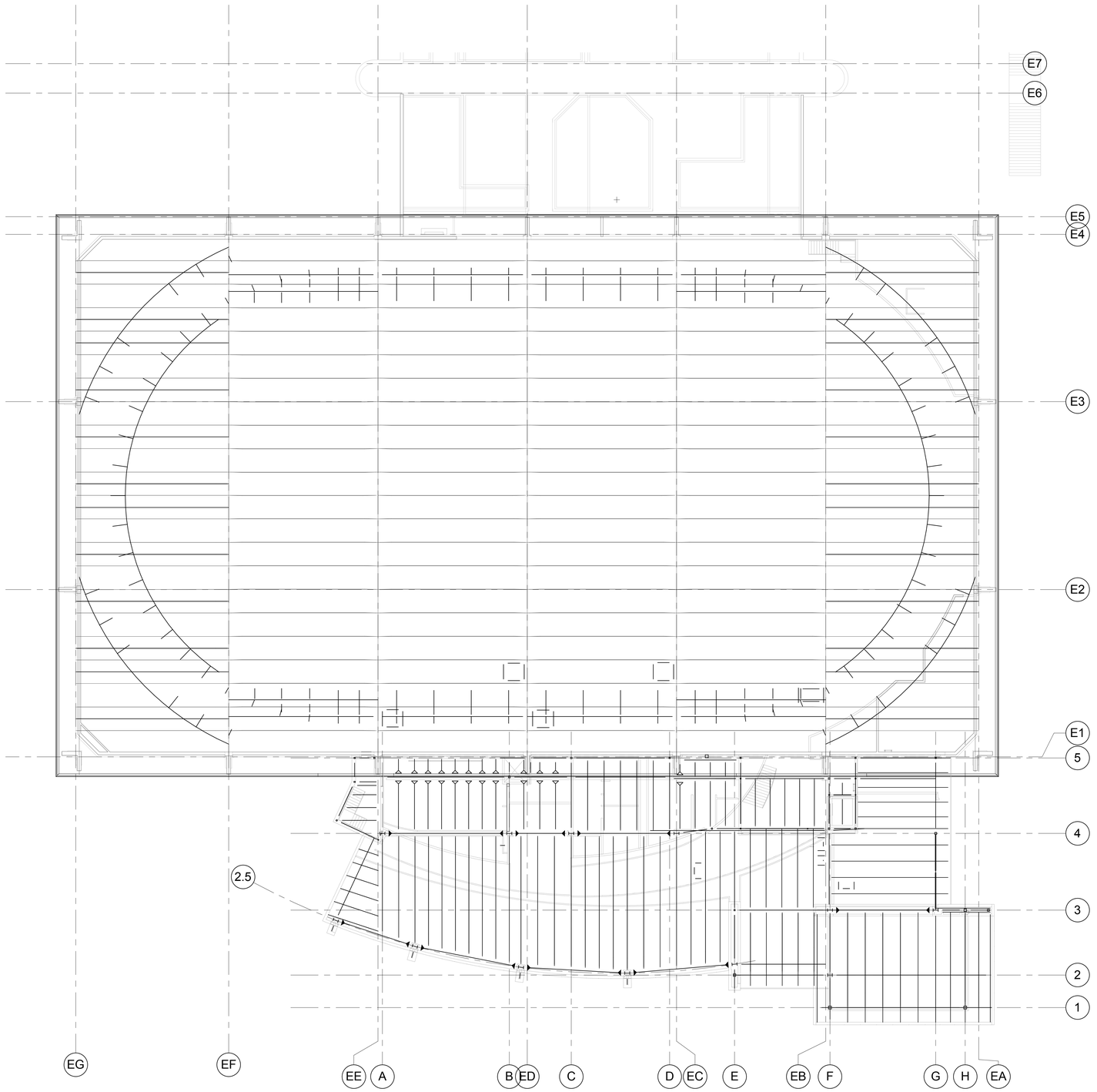
| Rev # | Date | Description |
|---|---|---|

Job # 12475
CAD File
Drawn BLP Checked JLA
Date 10.03.2012
Owner # DFCM #12031810

AREA C FRAMING PLAN

S133

10/2/2012 6:38:23 PM



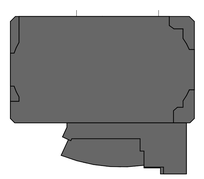

OVERALL ROOF FRAMING PLAN

SCALE : 1/16" = 1'-0"

A
S140

NORTH

KEY PLAN



VCBO
ARCHITECTURE
VALENTINER
CRANE
BRUNJES
ONYON

PROFESSIONAL STRUCTURAL ENGINEER
Jeremy A. Achter
No. 353467
10.2.12
STATE OF UTAH

VCBO ARCHITECTURE
524 SOUTH 600 EAST
SALT LAKE CITY, UT 84102
Phone: (801) 575-8800
Fax: (801) 531-9850
WWW: www.vcbo.com

DFCM CODE COMPLIANCE STAMP

A R W ENGINEERS
structural consultants
1556 W. Park Dr. Ogden, Utah 84404
ph. 801.782.6008 fx. 801.782.4656

# Student Activity Center
## Stromberg Addition - BID SET
Weber State University
3750 Harrison Blvd. Ogden, UT 84408

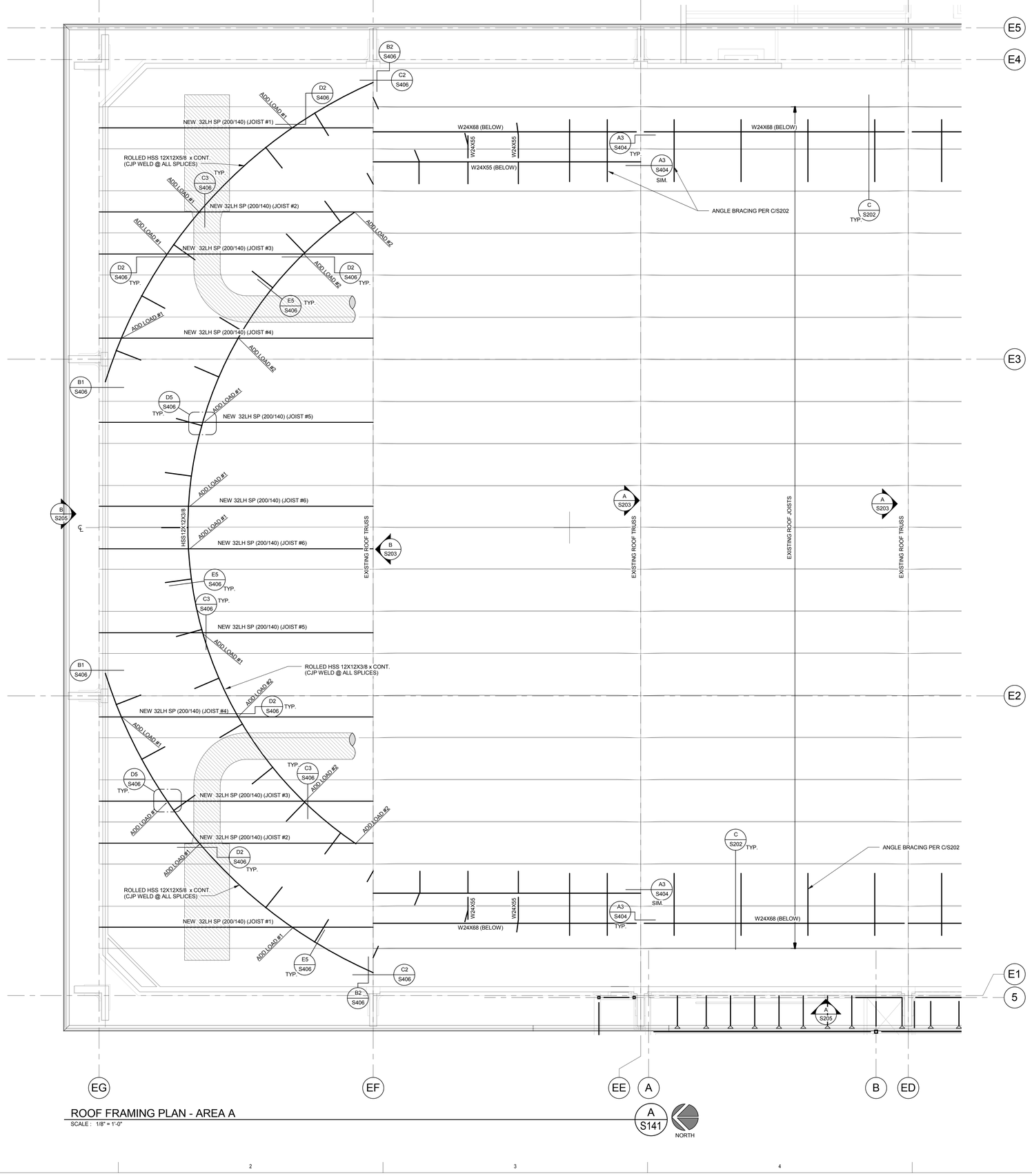
| Rev # | Date | Description |
|---|---|---|

Job # 12475
CAD File
Drawn BLP Checked JLA
Date 10.03.2012
Owner # DFCM #12031810

OVERALL ROOF FRAMING PLAN

S140

10/2/2012 6:38:21 PM




ROOF FRAMING PLAN - AREA A

SCALE : 1/8" = 1'-0"

A S141

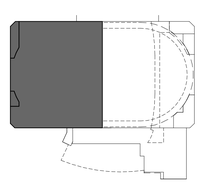
NORTH

## NEW TRACK SUPPORT JOIST LOAD CHART

| JOIST # | UNIFORM LOAD (TOTAL LOAD/SNOW LOAD) | ADD LOAD #1 | | ADD LOAD #2 | |
|---|---|---|---|---|---|
| | | D.L. | L.L. | D.L. | L.L. |
| 1 | 200/140 | 9.2K | 9.2K | N/A | N/A |
| 2 | 200/140 | 4.0K | 4.0K | 4.75K | 4.75K |
| 3 | 200/140 | 7.0K | 7.0K | 7.0K | 7.0K |
| 4 | 200/140 | 3.5K | 3.5K | 6.0K | 6.0K |
| 5 | 200/140 | 7.5K | 7.5K | N/A | N/A |
| 6 | 200/140 | 4.6K | 4.6K | N/A | N/A |
| | | | | | |

NOTES:
1. COORDINATE LOCATION OF ADD LOADS #1 AND #2 WITH CONTRACTOR BASED ON ACTUAL FIELD CONDITIONS.
2. COORDINATE JOIST CAMBERS WITH EXISTING JOIST CAMBERS TO PROVIDE COMMON DECK BEARING ELEVATION.
3. REMOVE AND REPLACE EXISTING BRIDGING AND ADD NEW BRIDGING AS REQ'D FOR NEW JOISTS. BRIDGING DESIGN TO BE PROVIDED BY JOIST DESIGNER.
4. EXISTING ROOF DECK BETWEEN GRIDS EA AND EB AND BETWEEN EF AND EG SHALL BE REMOVED TO FACILITATE JOIST INSTALLATION.
5. NEW ROOF DECK SHALL BE PLACED BETWEEN GRIDS EA AND EB AND BETWEEN EF AND EG PER THE ROOF DECK SCHEDULE ON SHEET S002.
6. ALL EXISTING ROOF DECK BETWEEN GRIDS EB AND EF SHALL REMAIN IN-PLACE AND UNALTERED.

KEY PLAN



VCBO
ARCHITECTURE
VALENTINER
CRANE
BRUNJES
ONYON

PROFESSIONAL STRUCTURAL ENGINEER
Jeremy A. Achter
No. 353467
10.2.12
STATE OF UTAH

VCBO ARCHITECTURE
524 SOUTH 600 EAST
SALT LAKE CITY, UT 84102
Phone: (801) 575-8800
Fax: (801) 531-9850
WWW: www.vcbo.com

DFCM CODE COMPLIANCE STAMP

ARW ENGINEERS
structural consultants
1594 W. Park Dr. Ogden, Utah 84404
ph: 801.782.6008 fx: 801.782.4656

# Student Activity Center
## Stromberg Addition - BID SET
Weber State University
3750 Harrison Blvd. Ogden, UT 84408

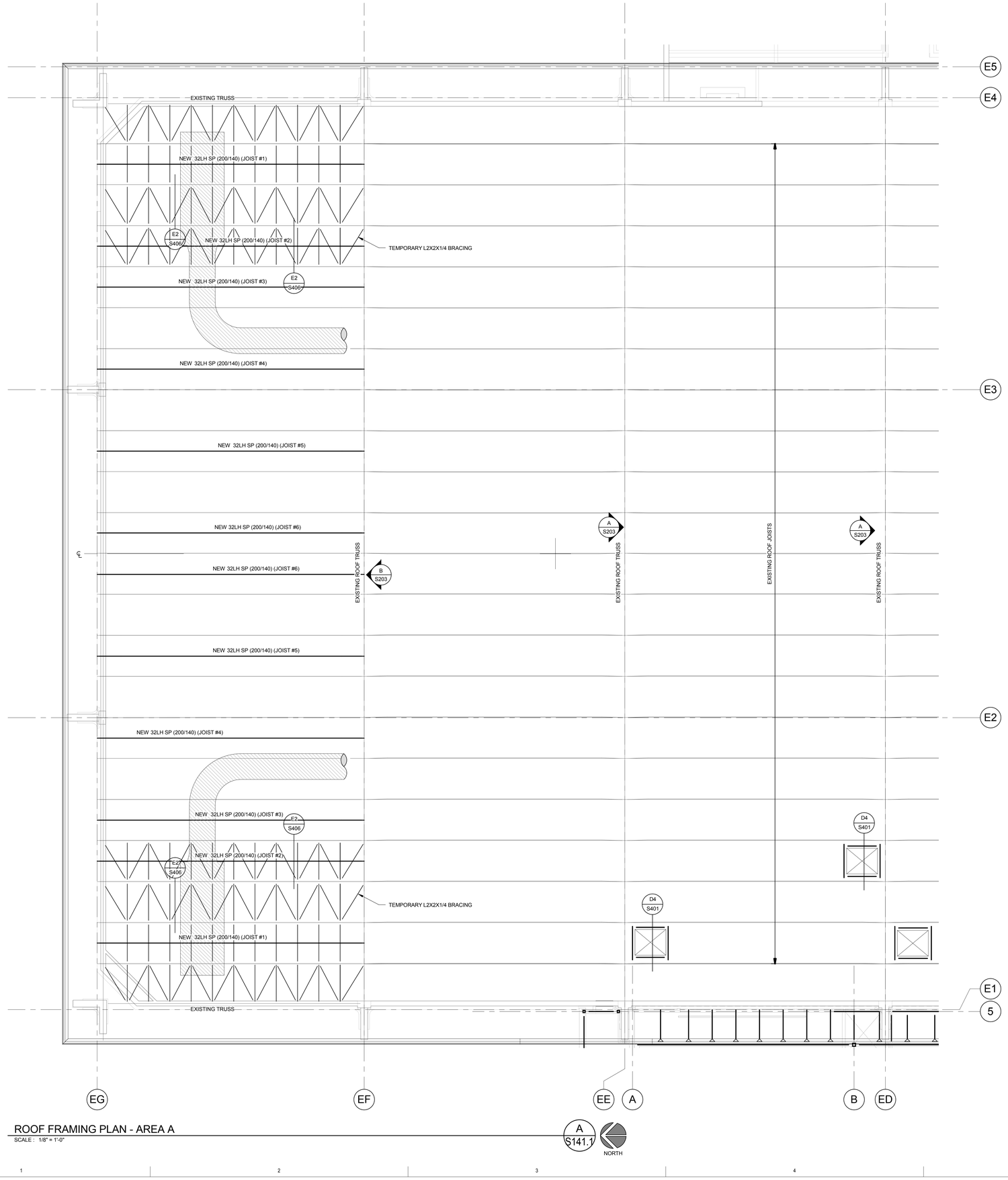
| Rev # | Date | Description |
|---|---|---|

Job # 12475
CAD File
Drawn BLP Checked JLA
Date 10.03.2012
Owner # DFCM #12031810

AREA A EXISTING ROOF TRACK SUPPORT PLAN

S141

10/2/2012 6:38:19 PM




ROOF FRAMING PLAN - AREA A

SCALE : 1/8" = 1'-0"

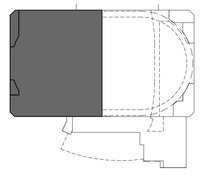
A S141.1

NORTH

ROOF UPGRADE CONSTRUCTION AND SEQUENCING NOTES:

1. PRIOR TO BEGINNING ANY STRUCTURAL DEMOLITION ON THE EXISTING ARENA ROOF THE CONTRACTOR SHALL SCHEDULE AND HOST (ON SITE) A PRE-CONSTRUCTION/PRE-DESIGN MEETING TO DISCUSS THE INTENT OF THIS SHEET AND THE CONTRACTORS PROPOSED SCHEDULE AND SEQUENCING.
2. TEMPORARY BRACING SHOWN ON THIS PLAN IS SCHEMATIC. BRACING IS INTENDED TO OCCUR AT PANEL POINTS. FIELD VERIFICATION OF ACTUAL PANEL POINT LAYOUT IS REQUIRED PRIOR TO FABRICATION.
3. ALL TEMPORARY JOIST BRACING SHALL BE INSTALLED PRIOR TO REMOVAL OF ROOF DECK.
4. ALL ROOF DECK BETWEEN GRIDLINES EA AND EB AND BETWEEN EF AND EG SHALL BE REPLACED IN ITS ENTIRETY. HOWEVER, IT MAY BE REMOVED AND REPLACED IN SECTIONS AS REQUIRED FOR CONSTRUCTION SEQUENCING.
5. AT ALL TIMES DURING CONSTRUCTION, JOISTS THAT SUPPORT THE EXISTING AIR HANDLER UNITS SHALL BE BRACED AT THEIR TOP CHORDS TO AT LEAST 2 ADJACENT JOISTS WITH NEW OR EXISTING DECKING OR WITH BRACES AS SHOWN ON THIS SHEET.
6. ALL ROOF UPGRADES SHALL BE COMPLETE PRIOR TO ANY TRACK ATTACHMENT TO THE ROOF.
7. ALL EXISTING JOIST BRIDGING THAT IS REMOVED OR ALTERED DURING CONSTRUCTION SHALL BE REPAIRED OR REPLACED TO THE INTEGRITY OF THE SYSTEM PRIOR TO DAMAGE OR REMOVAL.

KEY PLAN



VCBO
ARCHITECTURE
VALENTINER
CRANE
BRUNJES
ONYON

PROFESSIONAL STRUCTURAL ENGINEER
Jeremy L. Achter
No. 353467
10.2.12
STATE OF UTAH

VCBO ARCHITECTURE
524 SOUTH 600 EAST
SALT LAKE CITY, UT 84102
Phone: (801) 575-8800
Fax: (801) 531-9850
WWW: www.vcbo.com

DFCM CODE COMPLIANCE STAMP

ARW ENGINEERS
structural consultants
1594 W. Pier Dr. Ogden, Utah 84404
ph. 801.782.6008 fx. 801.782.4656

# Student Activity Center
## Stromberg Addition - BID SET
Weber State University
3750 Harrison Blvd. Ogden, UT 84408

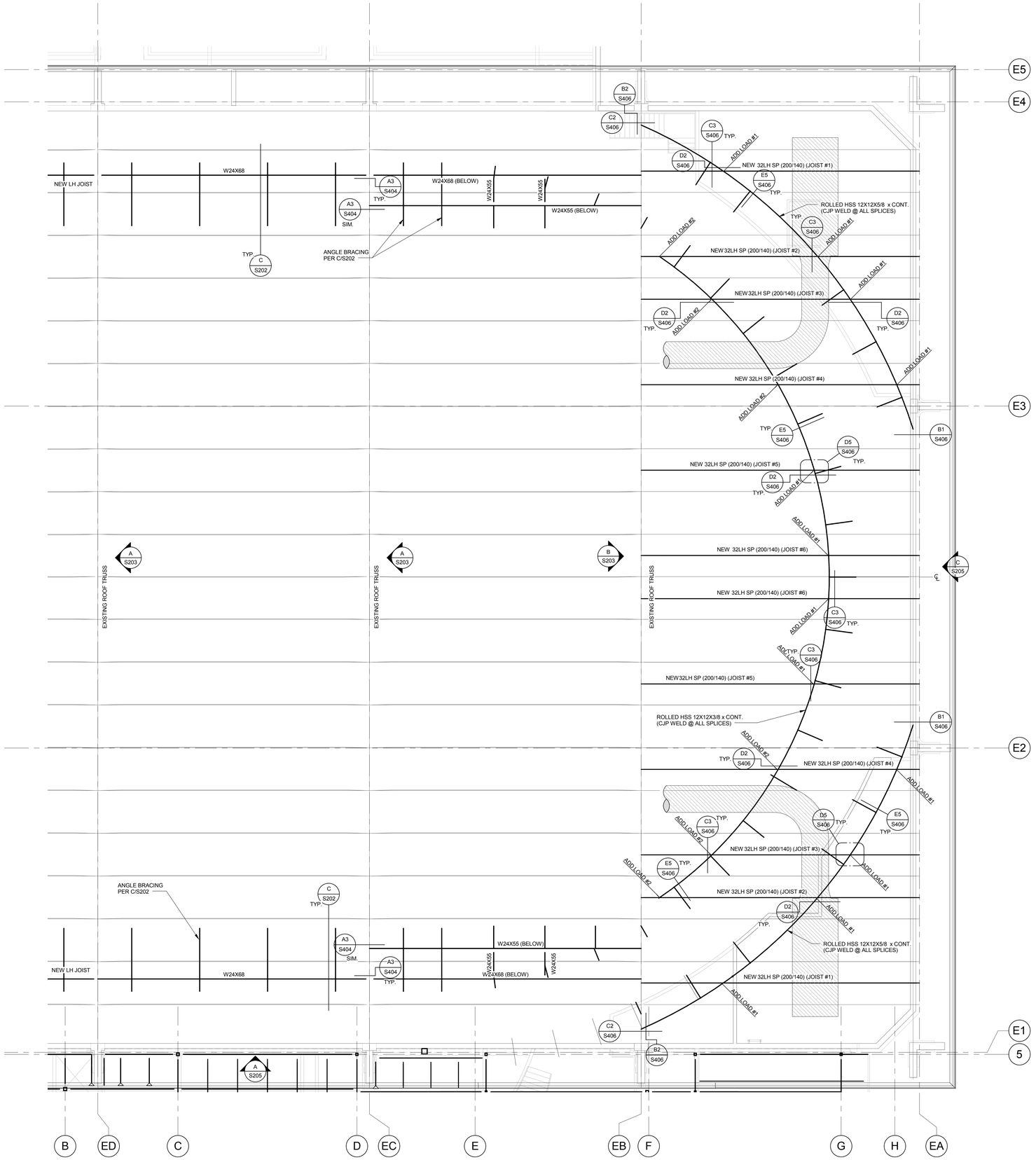
| Rev # | Date | Description |
|---|---|---|

Job # 12475
CAD File
Drawn BLP Checked JLA
Date 10.03.2012
Owner # DFCM #12031810

AREA A EXISTING
ROOF UPGRADE PLAN

S141.1

10/2/2012 6:38:18 PM




ROOF FRAMING PLAN - AREA B

SCALE : 1/8" = 1'-0"

A S142

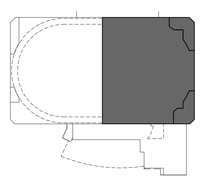
NORTH

## NEW TRACK SUPPORT JOIST LOAD CHART

| JOIST # | UNIFORM LOAD (TOTAL LOAD/SNOW LOAD) | ADD LOAD #1 | | ADD LOAD #2 | |
|---|---|---|---|---|---|
| | | D.L. | L.L. | D.L. | L.L. |
| 1 | 200/140 | 9.2K | 9.2K | N/A | N/A |
| 2 | 200/140 | 4.0K | 4.0K | 4.75K | 4.75K |
| 3 | 200/140 | 7.0K | 7.0K | 7.0K | 7.0K |
| 4 | 200/140 | 3.5K | 3.5K | 6.0K | 6.0K |
| 5 | 200/140 | 7.5K | 7.5K | N/A | N/A |
| 6 | 200/140 | 4.6K | 4.6K | N/A | N/A |
| | | | | | |

NOTES:
1. COORDINATE LOCATION OF ADD LOADS #1 AND #2 WITH CONTRACTOR BASED ON ACTUAL FIELD CONDITIONS.
2. COORDINATE JOIST CAMBERS WITH EXISTING JOIST CAMBERS TO PROVIDE COMMON DECK BEARING ELEVATION.
3. REMOVE AND REPLACE EXISTING BRIDGING AND ADD NEW BRIDGING AS REQ'D FOR NEW JOISTS. BRIDGING DESIGN TO BE PROVIDED BY JOIST DESIGNER.
4. EXISTING ROOF DECK BETWEEN GRIDS EA AND EB AND BETWEEN EF AND EG SHALL BE REMOVED TO FACILITATE JOIST INSTALLATION.
5. NEW ROOF DECK SHALL BE PLACED BETWEEN GRIDS EA AND EB AND BETWEEN EF AND EG PER THE ROOF DECK SCHEDULE ON SHEET S002.
6. ALL EXISTING ROOF DECK BETWEEN GRIDS EB AND EF SHALL REMAIN IN-PLACE AND UNALTERED.

KEY PLAN



VCBO
ARCHITECTURE
VALENTINER
CRANE
BRUNJES
ONYON

PROFESSIONAL STRUCTURAL ENGINEER
Jeremy A. Achter
No. 353467
10.2.12
STATE OF UTAH

VCBO ARCHITECTURE
524 SOUTH 600 EAST
SALT LAKE CITY, UT 84102
Phone: (801) 575-8800
Fax: (801) 531-9850
WWW: www.vcbo.com

DFCM CODE COMPLIANCE STAMP

ARW ENGINEERS
structural consultants
1599 W. Park Dr. Ogden, Utah 84404
ph: 801.782.6008 fx: 801.782.4656

# Student Activity Center
## Stromberg Addition - BID SET
Weber State University
3750 Harrison Blvd. Ogden, UT 84408

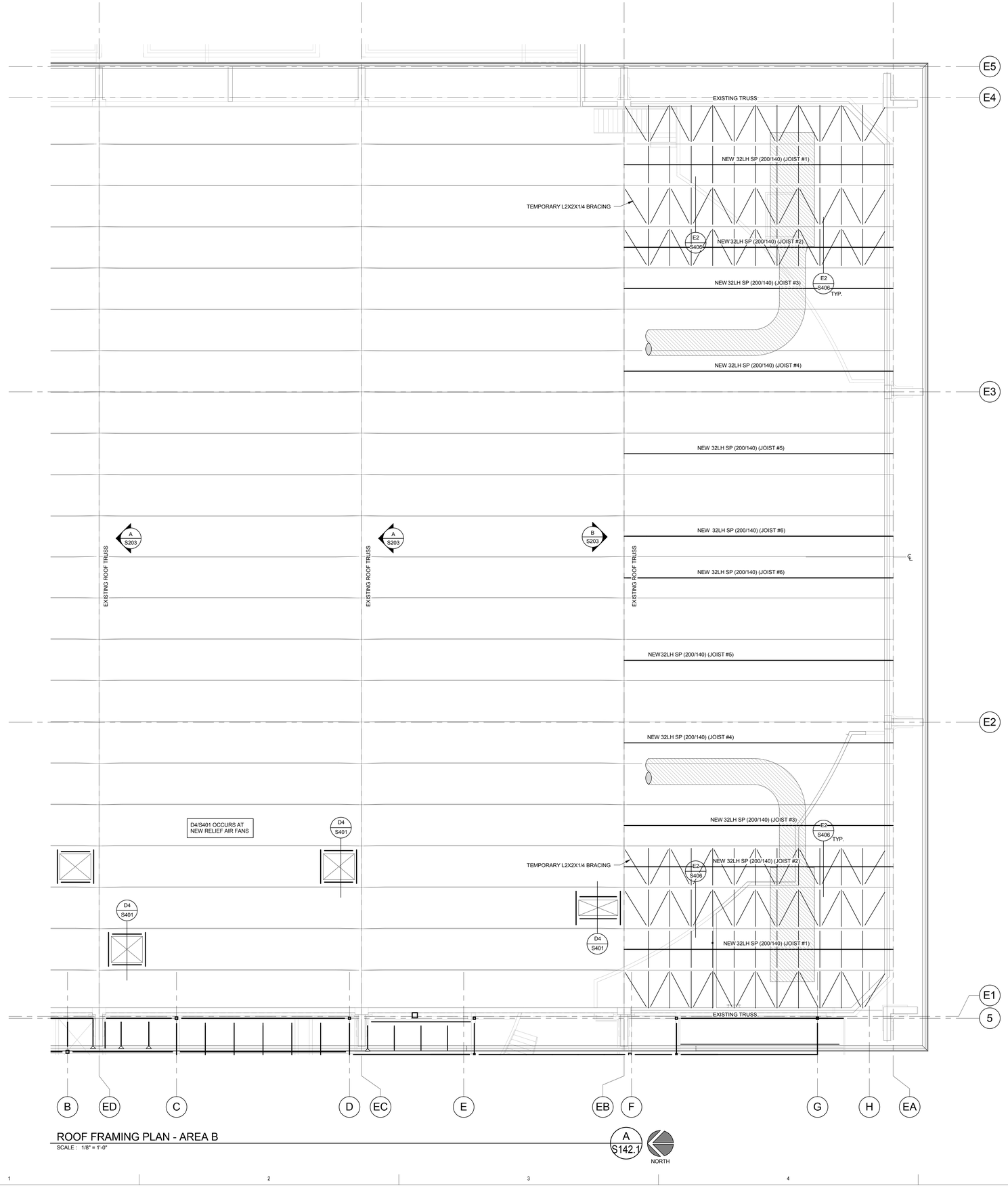
| Rev # | Date | Description |
|---|---|---|

Job # 12475
CAD File
Drawn BLP Checked JLA
Date 10.03.2012
Owner # DFCM #12031810

AREA B EXISTING ROOF TRACK SUPPORT PLAN

S142

10/2/2012 6:38:16 PM




ROOF FRAMING PLAN - AREA B

SCALE : 1/8" = 1'-0"

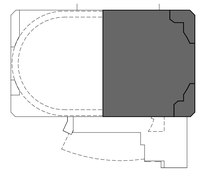
A S142.1

NORTH

ROOF UPGRADE CONSTRUCTION AND SEQUENCING NOTES:

1. PRIOR TO BEGINNING ANY STRUCTURAL DEMOLITION ON THE EXISTING ARENA ROOF THE CONTRACTOR SHALL SCHEDULE AND HOST (ON SITE) A PRE-CONSTRUCTION/PRE-DESIGN MEETING TO DISCUSS THE INTENT OF THIS SHEET AND THE CONTRACTORS PROPOSED SCHEDULE AND SEQUENCING.
2. TEMPORARY BRACING SHOWN ON THIS PLAN IS SCHEMATIC. BRACING IS INTENDED TO OCCUR AT PANEL POINTS. FIELD VERIFICATION OF ACTUAL PANEL POINT LAYOUT IS REQUIRED PRIOR TO FABRICATION.
3. ALL TEMPORARY JOIST BRACING SHALL BE INSTALLED PRIOR TO REMOVAL OF ROOF DECK.
4. ALL ROOF DECK BETWEEN GRIDLINES EA AND EB AND BETWEEN EF AND EG SHALL BE REPLACED IN ITS ENTIRETY. HOWEVER, IT MAY BE REMOVED AND REPLACED IN SECTIONS AS REQUIRED FOR CONSTRUCTION SEQUENCING.
5. AT ALL TIMES DURING CONSTRUCTION, JOISTS THAT SUPPORT THE EXISTING AIR HANDLER UNITS SHALL BE BRACED AT THEIR TOP CHORDS TO AT LEAST 2 ADJACENT JOISTS WITH NEW OR EXISTING DECKING OR WITH BRACES AS SHOWN ON THIS SHEET.
6. ALL ROOF UPGRADES SHALL BE COMPLETE PRIOR TO ANY TRACK ATTACHMENT TO THE ROOF.
7. ALL EXISTING JOIST BRIDGING THAT IS REMOVED OR ALTERED DURING CONSTRUCTION SHALL BE REPAIRED OR REPLACED TO THE INTEGRITY OF THE SYSTEM PRIOR TO DAMAGE OR REMOVAL.

KEY PLAN



VCBO
ARCHITECTURE
VALENTINER
CRANE
BRUNJES
ONYON

PROFESSIONAL STRUCTURAL ENGINEER
Jeremy A. Achter
No. 353467
10.2.12
STATE OF UTAH

VCBO ARCHITECTURE
524 SOUTH 600 EAST
SALT LAKE CITY, UT 84102
Phone: (801) 575-8800
Fax: (801) 531-9850
WWW: www.vcbo.com

DFCM CODE COMPLIANCE STAMP

ARW ENGINEERS
structural consultants
1594 W. Park Dr. Ogden, Utah 84404
ph. 801.782.6008 fx. 801.782.4656

# Student Activity Center
## Stromberg Addition - BID SET
Weber State University
3750 Harrison Blvd. Ogden, UT 84408

| Rev # | Date | Description |
|---|---|---|

Job # 12475
CAD File
Drawn BLP Checked JLA
Date 10.03.2012
Owner # DFCM #12031810

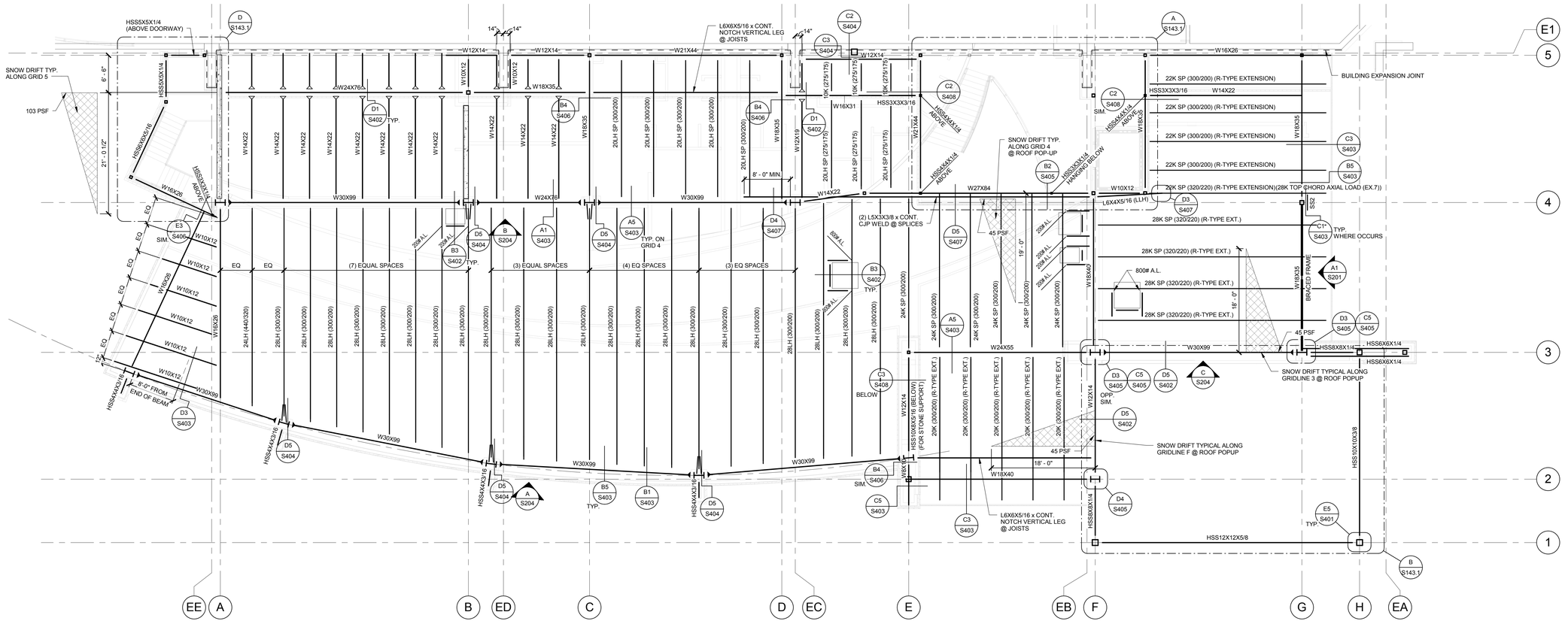
AREA B EXISTING
ROOF UPGRADE PLAN

S142.1

10/2/2012 6:38:14 PM

| EXPANSION JOINT SIZE REQUIREMENTS | | |
|---|---|---|
| LEVEL | CLEAR DIMENSION EAST - WEST | CLEAR DIMENSION NORTH - SOUTH |
| SECOND FLOOR | 2" | 2" |
| MEZZANINE | 4 1/2" | 3" |
| ROOF | 7" | 3" |

NOTES:
1. TABULATED VALUES REPRESENT MINIMUM CLEAR DISTANCE BETWEEN NEW CONSTRUCTION AND EXISTING STRUCTURE.
2. COORDINATE ACTUAL DIMENSIONS WITH THE ARCHITECTURAL DRAWINGS.




## ROOF FRAMING PLAN - AREA C

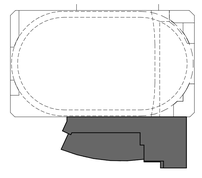
SCALE : 1/8" = 1'-0"

A S143 NORTH

ROOF FRAMING NOTES

1. SEE SHEET S001 FOR GENERAL STRUCTURAL NOTES.
2. GENERAL CONTRACTOR SHALL VERIFY MECHANICAL EQUIPMENT WEIGHTS, DIMENSIONS, AND LOCATIONS W/ MECHANICAL AND REFRIGERATION CONTRACTORS PRIOR TO ORDERING/FABRICATING JOISTS.
3. ( ### / ### ) DENOTES APPLIED TOTAL AND LIVE UNIFORMLY DISTRIBUTED LOADS IN POUNDS PER LINEAR FOOT OF JOIST, RESPECTIVELY.
4. JOISTS SUPPORTING MECHANICAL EQUIPMENT SHALL BE DESIGNED FOR ADDITIONAL LOADS INDICATED.
5. SNOW DRIFT LOADS INDICATED ON FRAMING PLANS SHALL BE APPLIED IN ADDITION TO UNIFORMLY DISTRIBUTED LOADS INDICATED PER NOTE 3.
6. PROVIDE ADDED HORIZONTAL AND VERTICAL JOISTS LOADS WHERE INDICATED ON PLAN OR DETAILS.
7. JOISTS AND GIRDERS SHALL BE DESIGNED FOR 15 PSF NET WIND UPLIFT.
8. SEE ROOF DECK SCHEDULE FOR REQUIRED DECK AND ATTACHMENTS.
9. SEE SHEET S402 FOR OPENINGS IN ROOF DECK. SEE MECHANICAL AND ARCHITECTURAL DRAWINGS FOR EXACT LOCATIONS.
10. CONTRACTOR SHALL ERECT AND MAINTAIN ADEQUATE TEMPORARY BRACING UNTIL ALL ROOF FRAMING AND DECK ATTACHMENTS ARE COMPLETE.
11. CONCENTRATED LOADS FROM EQUIPMENT, PIPING, ETC., SHALL NOT BE HUNG FROM JOISTS EXCEPT AT PANEL POINTS AND AS APPROVED BY THE ENGINEER.
12. JOIST BRIDGING DESIGN AND LOCATION BY JOIST MANUFACTURER.
13. ANY CONCENTRATED LOAD ON JOIST CHORDS (INCLUDING FRAMING ANGLES) NOT LOCATED WITHIN 6" OF A PANEL POINT REQUIRE (2) L 2" X 2" X 1/4" FROM THE POINT LOAD TO THE NEAREST OPPOSITE CHORD PANEL POINT (CONTRACTOR SUPPLIED AND INSTALLED).
14. ANY ROOF SUPPORTED PIPING 6" OR LARGER RUNNING PARALLEL TO JOIST SHALL BE SUPPORTED BY TWO OR MORE JOISTS.
15. USE OF STRAIGHT AND DIAGONAL BRIDGING SHALL BE COORDINATED WITH THE MECHANICAL DRAWINGS AS DUCTWORK MAY OCCUR BETWEEN JOISTS.

KEY PLAN




VCBO ARCHITECTURE
524 SOUTH 600 EAST
SALT LAKE CITY, UT 84102
Phone: (801) 575-8800
Fax: (801) 531-9850
www: www.vcbo.com


Jeremy A. Achter No. 353467 10.2.12 STATE OF UTAH PROFESSIONAL STRUCTURAL ENGINEER

DFCM CODE COMPLIANCE STAMP

A R W ENGINEERS structural consultants 1599 W. Park Dr. Ogden, Utah 84404 ph: 801.782.6006 fx: 801.782.4656

# Student Activity Center
## Stromberg Addition - BID SET
Weber State University
3750 Harrison Blvd. Ogden, UT 84408

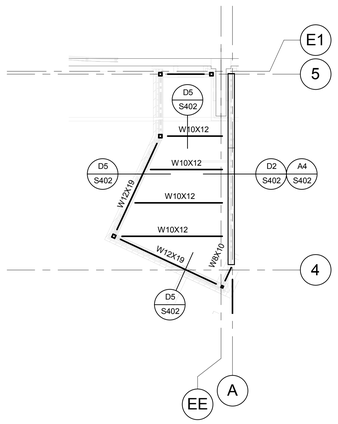
| Rev # | Date | Description |
|---|---|---|

Job # 12475
CAD File
Drawn BLP Checked JLA
Date 10.03.2012
Owner # DFCM #12031810

AREA C LOW ROOF FRAMING PLAN

S143

10/2/2012 6:38:13 PM

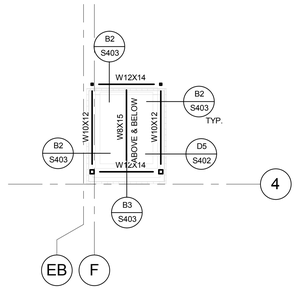



HIGH ROOF FRAMING PLAN - AREA C

SCALE : 1/8" = 1'-0"

D S143.1

NORTH

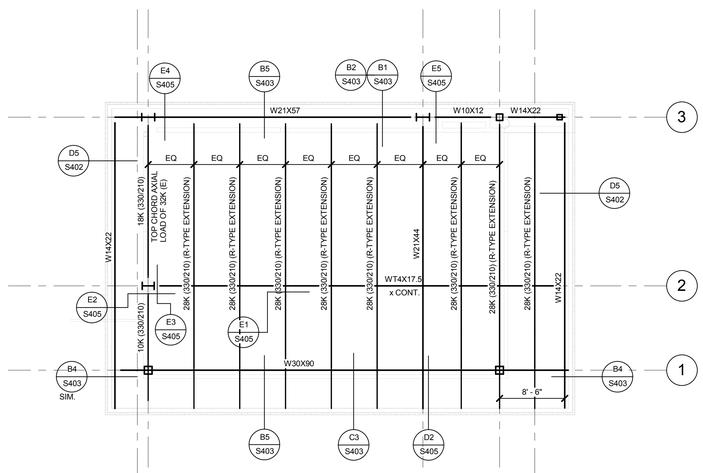



ELEVATOR ROOF FRAMING PLAN - AREA C

SCALE : 1/8" = 1'-0"

C S143.1

NORTH

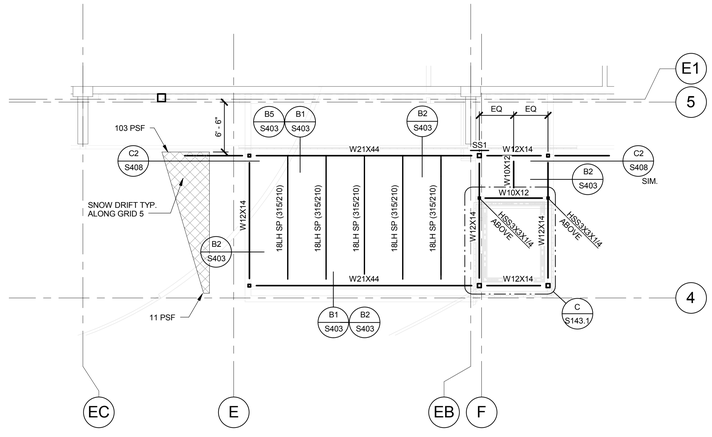



HIGH ROOF FRAMING PLAN - AREA C

SCALE : 1/8" = 1'-0"

B S143.1

NORTH




HIGH ROOF FRAMING PLAN - AREA C

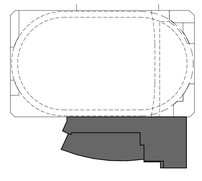
SCALE : 1/8" = 1'-0"

A S143.1

NORTH

NOTE:
ROOF FRAMING NOTES
ON SHEET S143.

KEY PLAN



VCBO
ARCHITECTURE
VALENTINER
CRANE
BRUNJES
ONYON

PROFESSIONAL STRUCTURAL ENGINEER
Jeremy A. Achter
No. 353467
10.2.12
STATE OF UTAH

VCBO ARCHITECTURE
524 SOUTH 600 EAST
SALT LAKE CITY, UT 84102
Phone: (801) 575-8800
Fax: (801) 531-9850
WWW: www.vcbo.com

DFCM CODE COMPLIANCE STAMP

ARW ENGINEERS
structural consultants
1556 W. Park Dr. Ogden, Utah 84404
ph: 801.782.6008 fx: 801.782.4656

# Student Activity Center
## Stromberg Addition - BID SET
Weber State University
3750 Harrison Blvd. Ogden, UT 84408

| Rev # | Date | Description |
|---|---|---|

Job # 12475
CAD File
Drawn BLP Checked JLA
Date 10.03.2012
Owner # DFCM #12031810

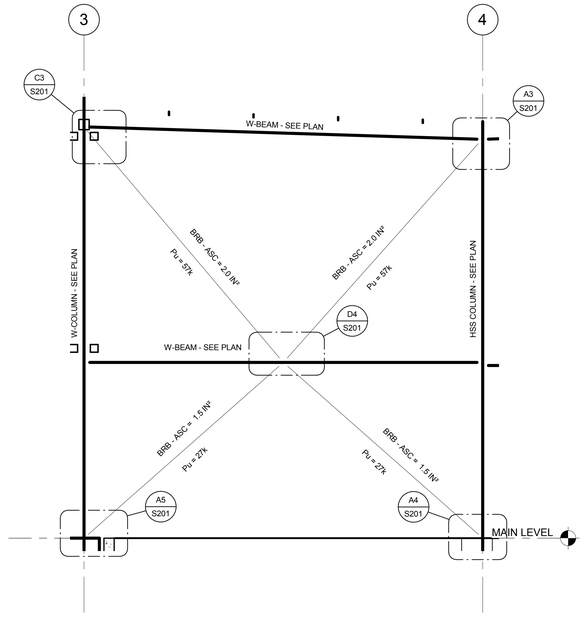
AREA C HIGH ROOF FRAMING PLAN

S143.1

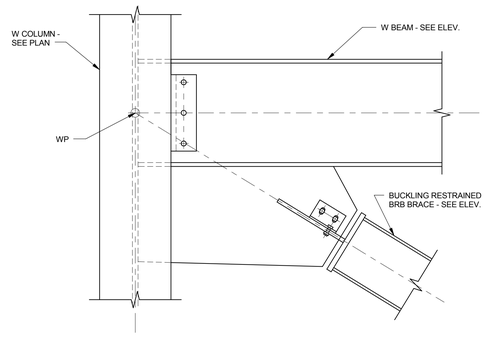
10/2/2012 6:38:11 PM

BUCKLING RESTRAINED BRACED FRAME NOTES

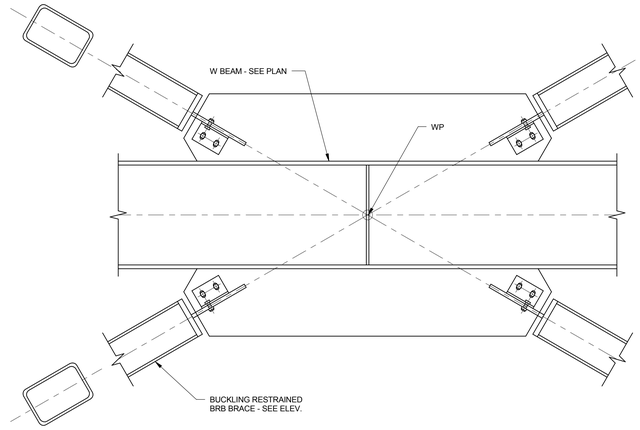
1. DESIGN OF GUSSET PLATE AND CONNECTIONS OF PLATES TO COLUMNS AND BEAMS SHALL BE PROVIDED BY THE BRBF SUPPLIER.
2. GUSSET PLATES AND PORTIONS OF BRACES EXTENDING 4-1/2" FROM THE END OF THE SLEEVES ARE PROTECTED ZONES. NO WELDS OR ATTACHMENTS MAY BE MADE TO THESE AREAS. SEE TYPICAL DETAILS FOR EXTENT AND LIMITATIONS OF PROTECTED ZONES.
3. WHERE BRACES OR GUSSET ELEMENTS ARE EMBEDDED IN SLABS, PROVIDE1/2" COMPRESSIBLE MATERIAL BETWEEN ELEMENTS AND SLAB.
4. ALL BRACES BELOW FLOOR FRAMING MUST BE INSTALLED PRIOR TO POURING CONCRETE FLOORS.
5. BUCKLING RESTRAINED BRACES SHALL BE DESIGNED AND TESTED AS FOLLOWS:
   a. BUCKLING RESTRAINED BRACES ARE TO BE TESTED PER THE PROVISIONS OF AISC 341-05. BRACE SUPPLIER SHALL SUBMIT PROOF OF EACH BRACE'S COMPLIANCE WITH THE QUALIFIED LOAD AND STRAIN RANGES.
   b. Pu IS THE GOVERNING CODE LEVEL FORCE IN THE BRACE BASED ON LRFD FORCE LEVELS. SEE BRACED FRAME ELEVATIONS. Pu ≤ 0.9*Asc*Fymin.
   c. THE ACTUAL YIELD STRESS OF THE STEEL CORE, Fysc, SHALL BE DETERMINED BY A COUPON TEST (38 KSI ≤ Fysc ≤ 46 KSI). CHARPY TESTING IS REQUIRED WHEN THE THICKNESS OF THE CORE MATERIAL EXCEEDS 2".
   d. BRACE STIFFNESS, Keff, TO BE CALCULATED AS Kf*Asc*E/Lwp-wp(±10%), WHERE THE VALUES FOR THE STIFFNESS MODIFICATION FACTOR (Kf'=1.5, Asc IS TAKEN FROM THE BRACED FRAME ELEVATIONS, AND Lwp-wp IS THE WORKPOINT-TO-WORKPOINT LENGTH OF THE BRACE.
   e. BRACE STRAINS TO BE CALCULATED AS Pservice=Pu/( ρ I), WHERE ρ =1.3 AND I=1.25.
   f. MAXIMUM βu NOT TO EXCEED 1.36 AND MAXIMUM β NOT TO EXCEED 1.1.



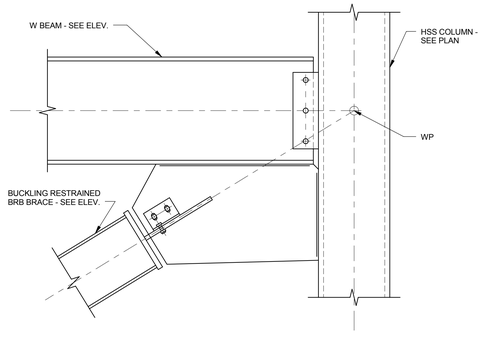

ELEVATION
SCALE : NONE
A1 S201 L



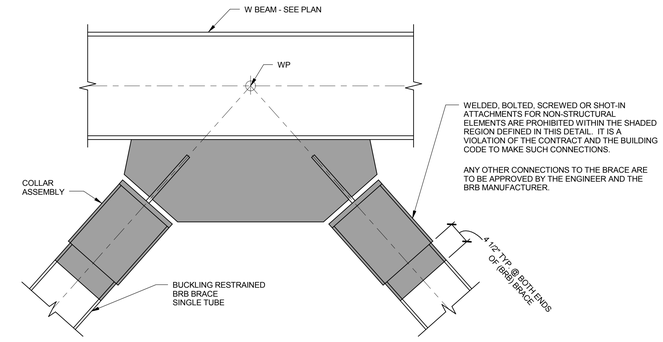

DETAIL
SCALE : NONE
C3 S201 L



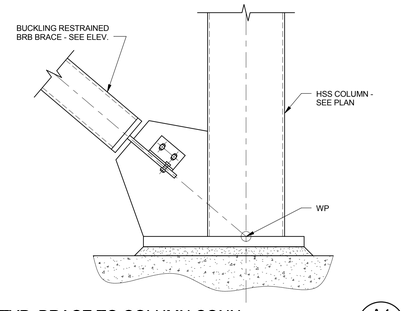

TYP. CHEVRON BRACE CONN. (SINGLE TUBE)
SCALE : NONE
D4 S201 L



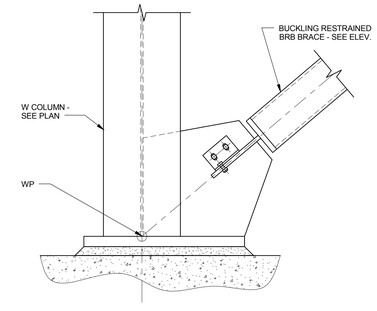

TYP. BRACE TO COLUMN FLANGE CONNECTION (NON-MOMENT CONNECTED BEAM)
SCALE : NONE
A3 S201 L




TYP. PROTECTED ZONE DETAIL
SCALE : NONE
B4 S201 L




TYP. BRACE TO COLUMN CONN.
SCALE : NONE
A4 S201 L




TYP. BRACE TO COLUMN CONN.
SCALE : NONE
A5 S201 L

VCBO
ARCHITECTURE
VALENTINER
CRANE
BRUNJES
ONYON

PROFESSIONAL STRUCTURAL ENGINEER
Jeremy D. Achter
No. 353467
10.2.12
STATE OF UTAH

VCBO ARCHITECTURE
524 SOUTH 600 EAST
SALT LAKE CITY, UT 84102
Phone: (801) 575-8800
Fax: (801) 531-9850
WWW: www.vcbo.com

DFCM CODE COMPLIANCE STAMP

ARW ENGINEERS
structural consultants
1594 W. Park Dr. Ogden, Utah 84404
ph: 801.782.6008 fx: 801.782.4656

# Student Activity Center
## Stromberg Addition - BID SET
Weber State University
3750 Harrison Blvd. Ogden, UT 84408

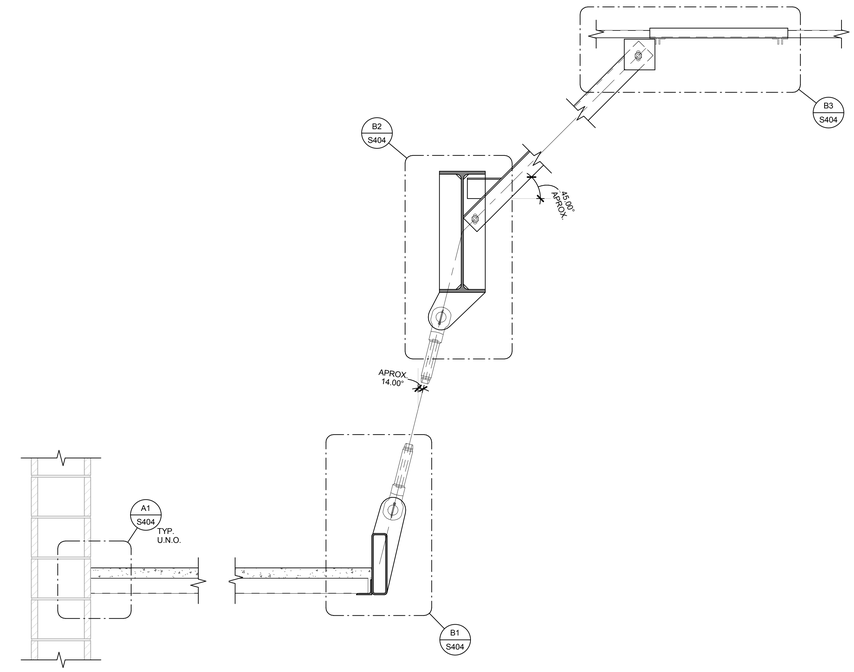
| Rev # | Date | Description |
|---|---|---|

Job # 12475
CAD File
Drawn BLP Checked JLA
Date 10.03.2012
Owner # DFCM #12031810

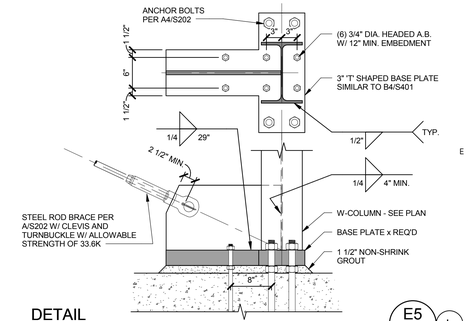
BRACED FRAME ELEVATIONS

S201

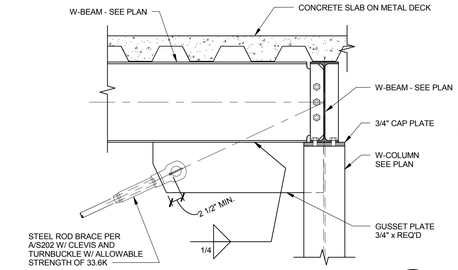
10/2/2012 6:38:07 PM



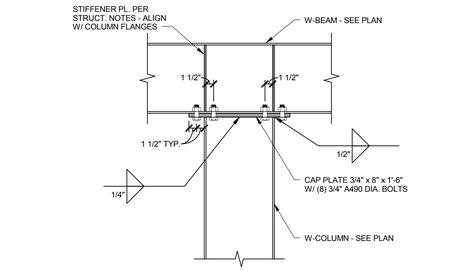

TYPICAL TRACK SECTION
SCALE : NONE
C S202



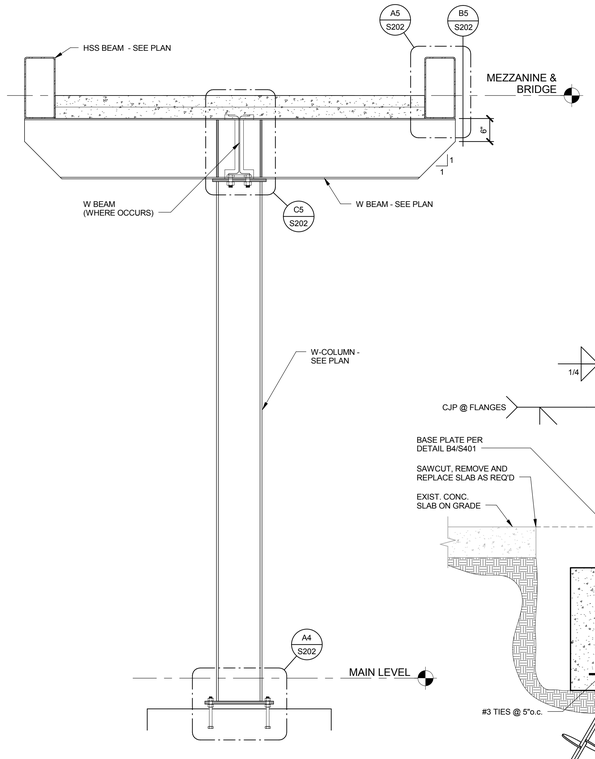

DETAIL
SCALE : NONE
E5 S202 L



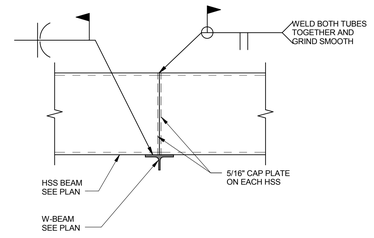

DETAIL
SCALE : NONE
D5 S202 L



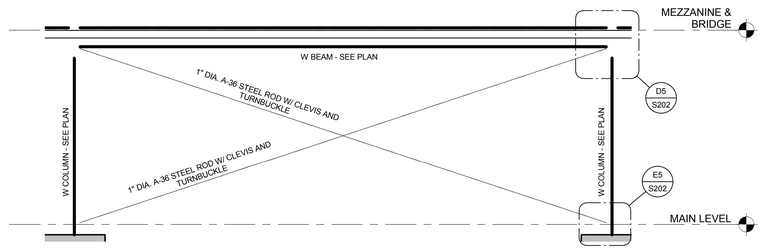

DETAIL
SCALE : NONE
C5 S202 L



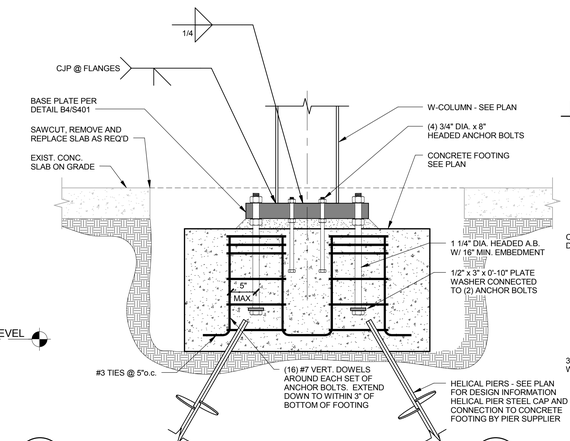

ELEVATION
SCALE : NONE
B S202



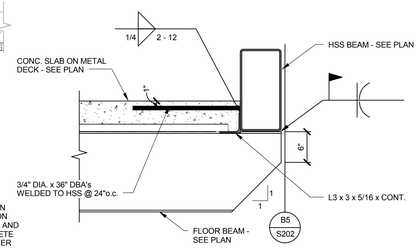

DETAIL
SCALE : NONE
B5 S202




ELEVATION
SCALE : NONE
A S202 L




DETAIL
SCALE : NONE
A4 S202




DETAIL
SCALE : NONE
A5 S202

VCBO
ARCHITECTURE
VALENTINER
CRANE
BRUNJES
ONYON

PROFESSIONAL STRUCTURAL ENGINEER
Jeremy L. Achter
No. 353467
10.2.12
STATE OF UTAH

VCBO ARCHITECTURE
524 SOUTH 600 EAST
SALT LAKE CITY, UT 84102
Phone: (801) 575-8800
Fax: (801) 531-9850
WWW: www.vcbo.com

DFCM CODE COMPLIANCE STAMP

ARW ENGINEERS
structural consultants
1568 W. Park Dr. Ogden, Utah 84404
ph: 801.782.6008 fx: 801.782.4656

# Student Activity Center
## Stromberg Addition - BID SET
Weber State University
3750 Harrison Blvd. Ogden, UT 84408

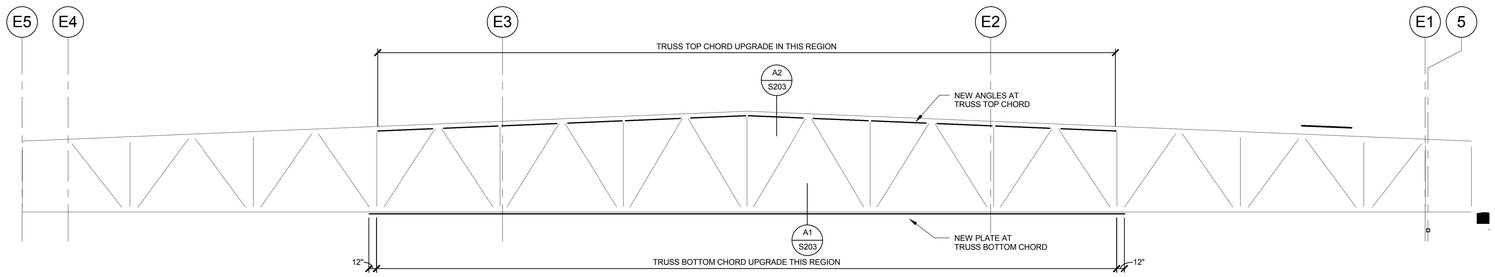
| Rev # | Date | Description |
|---|---|---|

Job # 12475
CAD File
Drawn BLP Checked JLA
Date 10.03.2012
Owner # DFCM #12031810

BRIDGE DETAILS

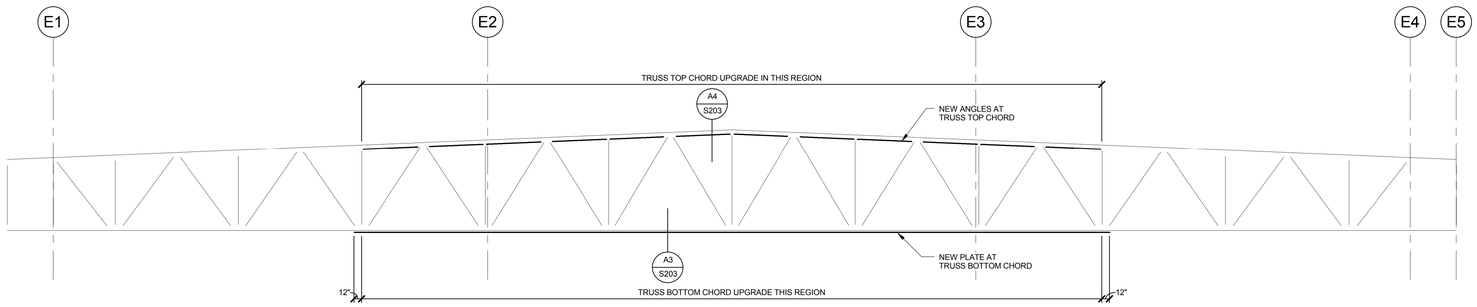
S202

10/2/2012 6:38:06 PM




ELEVATION
SCALE : 1/8" = 1'-0"

A
S203

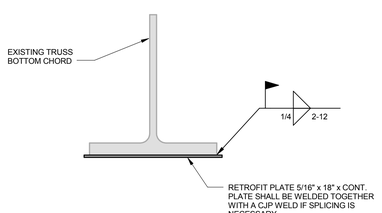



ELEVATION
SCALE : 1/8" = 1'-0"

B
S203

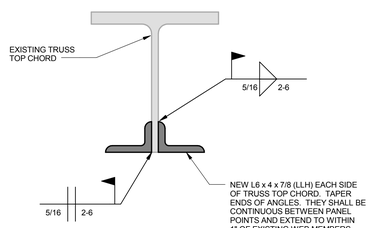
TRUSS UPGRADE NOTES

1. ALL PAINT SHALL BE REMOVED FROM STEEL SURFACES PRIOR TO WELDING.
2. TRUSS UPGRADES SHALL OCCUR WHEN THERE IS NO SNOW ON THE ROOF AND EXISTING BALLAST HAS BEEN REMOVED AND PRIOR TO ANY NEW TRACK SUPPORT CONSTRUCTION.



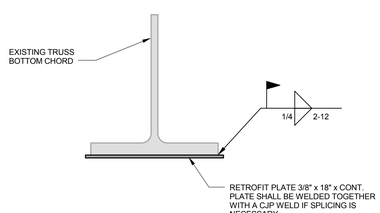

DETAIL
SCALE : NONE

A1
S203



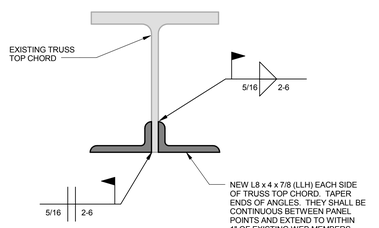

DETAIL
SCALE : NONE

A2
S203




DETAIL
SCALE : NONE

A3
S203




DETAIL
SCALE : NONE

A4
S203

VCBO
ARCHITECTURE
VALENTINER
CRANE
BRUNJES
ONYON

PROFESSIONAL STRUCTURAL ENGINEER
Jeremy A. Achter
No. 353467
10.2.12
STATE OF UTAH

VCBO ARCHITECTURE
524 SOUTH 600 EAST
SALT LAKE CITY, UT 84102
Phone: (801) 575-8800
Fax: (801) 531-9850
WWW: www.vcbo.com

DFCM CODE COMPLIANCE STAMP

ARW ENGINEERS
structural consultants
1594 W. Park Dr. Ogden, Utah 84404
ph: 801.782.6008 fx: 801.782.4656

# Student Activity Center
## Stromberg Addition - BID SET
Weber State University
3750 Harrison Blvd. Ogden, UT 84408

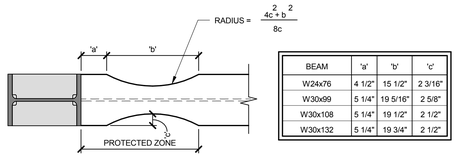
| Rev # | Date | Description |
|---|---|---|

Job # 12475
CAD File
Drawn BLP Checked JLA
Date 10.03.2012
Owner # DFCM #12031810

TRUSS UPGRADE ELEVATIONS

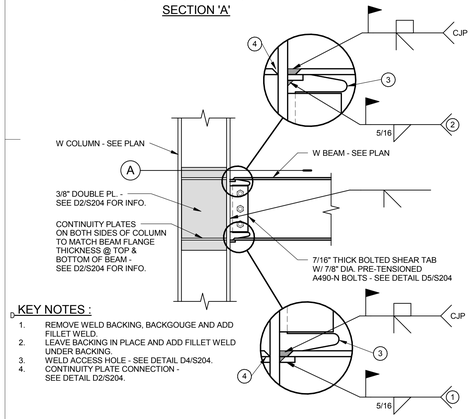
S203

10/2/2012 6:38:03 PM




| BEAM | 'a' | 'b' | 'c' |
|---|---|---|---|
| W24x76 | 4 1/2" | 15 1/2" | 2 3/16" |
| W30x99 | 5 1/4" | 19 5/16" | 2 5/8" |
| W30x108 | 5 1/4" | 19 1/2" | 2 1/2" |
| W30x132 | 5 1/4" | 19 3/4" | 2 1/2" |

SECTION 'A'




KEY NOTES :

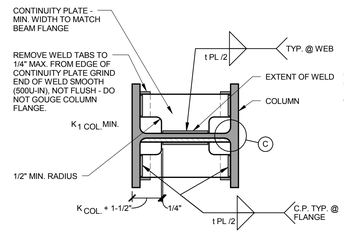
1. REMOVE WELD BACKING, BACKGOUGE AND ADD FILLET WELD.
2. LEAVE BACKING IN PLACE AND ADD FILLET WELD UNDER BACKING.
3. WELD ACCESS HOLE - SEE DETAIL D4/S204.
4. CONTINUITY PLATE CONNECTION - SEE DETAIL D2/S204.

TYPICAL MOMENT FRAME CONNECTION DETAIL

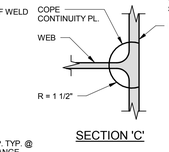
SCALE : NONE

KEY NOTES :

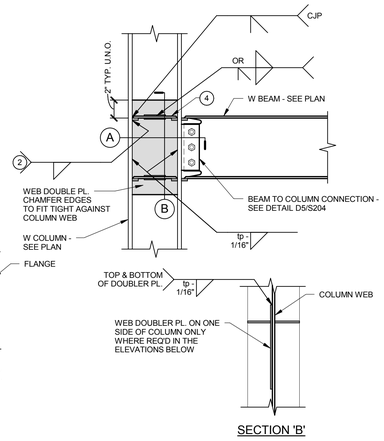
1. CONTINUITY PLATE.
2. AISC MINIMUM CONTINUOUS FILLET WELD UNDER BACKING.
3. MINIMUM WIDTH TO MATCH BEAM FLANGE. PREFERRED ALTERNATIVE : EXTEND PLATE FLUSH WITH COLUMN FLANGES.
4. REMOVE WELD TABS TO 1/4" MAXIMUM FROM EDGE OF CONTINUITY PLATE. GRIND END OF WELD SMOOTH (500 u-in), NOT FLUSH. DO NOT GOUGE COLUMN FLANGE.



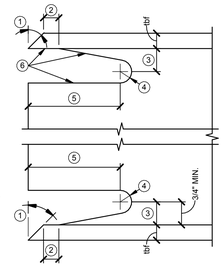

SECTION 'A'




SECTION 'C'




SECTION 'B'




TOLERANCES SHALL NOT ACCUMULATE TO THE EXTENT THAT THE ANGLE OF THE ACCESS HOLE CUT TO THE FLANGE SURFACE EXCEEDS 25°

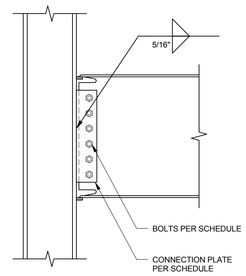
KEY NOTES :

1. BEVEL AS REQUIRED BY AWS D1.1 FOR SELECTED GROOVE WELD PROCEDURE.
2. LARGER OF $t_{bf}$ OR 1/2 INCH. (PLUS 1/2 $t_{bf}$ , OR MINUS 1/4 $t_{bf}$ ).
3. 3/4 $t_{bf}$ TO $t_{bf}$ , 3/4" MINIMUM (+ 1/4 INCH).
4. 3/8" MINIMUM RADIUS (PLUS NOT LIMITED, OR MINUS 0).
5. 3 $t_{bf}$ , (+ 1/2 INCH).
6. SEE FEMA-353, RECOMMENDED SPECIFICATIONS AND QUALITY ASSURANCE GUIDELINES FOR STEEL MOMENT-FRAME CONSTRUCTION FOR SEISMIC APPLICATIONS, FOR FABRICATION DETAILS INCLUDING CUTTING METHODS AND SMOOTHNESS REQUIREMENTS.

DETAIL

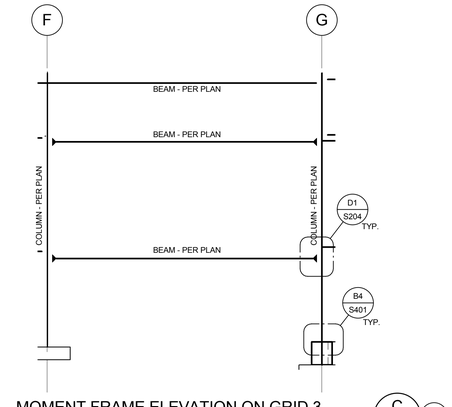
SCALE : NONE

| BEAM SIZE | PLATE THICKNESS Fy = 50 ksi | BOLTS |
|---|---|---|
| W24 | 5/16" | (6) 7/8" A490-N |
| W30 | 7/16" | (8) 7/8" A490-N |



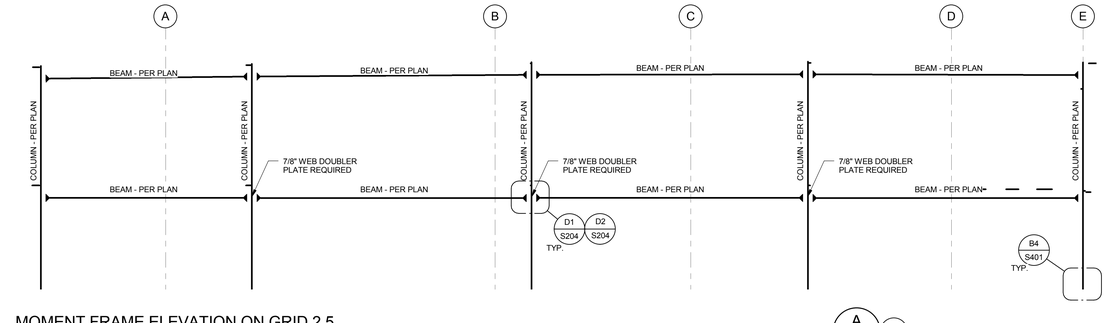

MOMENT FRAME BEAM CONNECTION DETAIL

SCALE : NONE



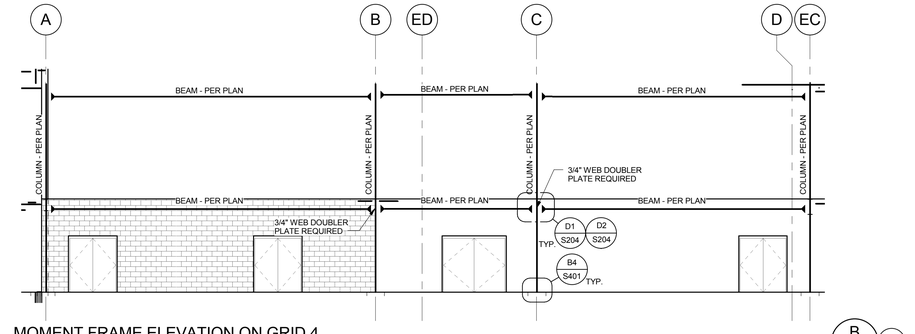

MOMENT FRAME ELEVATION ON GRID 3

SCALE : 1/8" = 1'-0"




MOMENT FRAME ELEVATION ON GRID 2.5

SCALE : 1/8" = 1'-0"




MOMENT FRAME ELEVATION ON GRID 4

SCALE : 1/8" = 1'-0"

MOMENT FRAMES

1. STRUCTURAL STEEL IN MOMENT FRAMES SHALL BE FABRICATED AND ERECTED IN ACCORDANCE WITH THE LATEST EDITION OF THE AISC SPECIFICATIONS NOTED IN THE STRUCTURAL STEEL NOTES ABOVE IN ADDITION TO THE FOLLOWING:
   a. AISC 341 - RECOMMENDED SPECIFICATIONS AND QUALITY ASSURANCE GUIDELINES FOR STEEL MOMENT-FRAME CONSTRUCTION FOR SEISMIC APPLICATIONS.
2. STRUCTURAL STEEL IN MOMENT FRAMES SHALL COMPLY WITH THE REQUIREMENTS NOTED IN THE STRUCTURAL STEEL NOTES ABOVE TO INCLUDE THE FOLLOWING:
   a. ALL SHAPES OF GROUP 3 (WITH FLANGES THICKER THAN 1-1/2"), GROUP 4 AND GROUP 5, AS WELL AS ALL PLATES 2" AND THICKER, THAT ARE PART OF THE SEISMIC FORCE RESISTING SYSTEM SHALL HAVE CHARPY V-NOTCH ABSORBED ENERGY OF AT LEAST 20 FT-LBS. AT 70 DEGREES F.
3. BOLTED CONNECTIONS IN MOMENT FRAMES SHALL CONFORM TO AISC 358 FASTENER AND TIGHTENING REQUIREMENTS. ALL BOLTS IN MOMENT FRAMES SHALL BE INSPECTED AND TESTED.
4. WELDED CONNECTIONS BETWEEN THE PRIMARY MEMBERS OF MOMENT FRAMES SHALL BE TESTED FOR COMPLIANCE ACCORDING TO I8C TABLE 1704.3 AND THE CONTRACT SPECIFICATIONS AND PLANS. INSPECTION SHALL BE DONE BY A QUALIFIED TESTING INSPECTOR, AS A MINIMUM, THE TESTING SHALL INCLUDE THE FOLLOWING:
   a. ALL COMPLETE PENETRATION GROOVE WELDS CONTAINED IN JOINTS AND SPLICES SHALL BE TESTED 100% EITHER BY ULTRASONIC TESTING OR BY RADIOGRAPHY.
   b. PARTIAL PENETRATION GROOVE WELDS WHEN USED IN COLUMN SPLICES SHALL BE TESTED EITHER BY ULTRASONIC TESTING OR BY RADIOGRAPHY. A MINIMUM OF 50% OF THESE WELDS SHALL BE TESTED.
   c. BASE METAL THICKER THAN 1-1/2", WHEN SUBJECTED TO THROUGH THICKNESS WELD SHRINKAGE STRAINS SHALL BE ULTRASONICALLY INSPECTED FOR DISCONTINUITIES DIRECTLY BEHIND SUCH WELDS AND THREE INCHES ABOVE AND BELOW THE WELD AFTER JOINT ASSEMBLY COMPLETION.
   d. ANY MATERIAL DISCONTINUITIES SHALL BE ACCEPTED OR REJECTED ON THE BASIS OF THE DEFECT RATING IN ACCORDANCE WITH THE UBC STANDARDS AS IT REFERS TO THE TESTING IN AWS D1.1 CHAPTER 6, EXCLUDING SECTIONS 6.1 THROUGH AND INCLUDING 6.6. ALL DEFICIENT WELDS SHALL BE CORRECTED AND TESTED AT NO ADDITIONAL COST TO THE OWNER.
5. ALL COMPLETE PENETRATION WELDS USED IN MOMENT FRAMES ARE CONSIDERED DEMAND CRITICAL AND THE FOLLOWING SPECIAL PROVISIONS APPLY: WELDING METHODS, PROCEDURES AND QUALITY CONTROL SHALL COMPLY WITH AWS D1.1 AND THE FOLLOWING:
   a. TACK WELD QUALITY SHALL COMPLY WITH SECTION 5.18.
   b. ARC STRIKES, GOUGES AND OTHER IMPERFECTIONS WITHIN OR ADJACENT TO THE JOINT, SHALL BE REPAIRED OR REMOVED.
   c. PREHEAT AND INTER-PASS REQUIREMENTS AS OUTLINES IN SECTION 3.5.
   d. USE WELD TABS AT BEAM FLANGE CONNECTION; AFTER WELDING, REMOVE THE WELD TABS AND FINISH TO A SMOOTH CONTOUR PER SECTION 5.31.3.
   e. BACKER BARS SHALL BE REMOVED FROM BEAM BOTTOM FLANGE CONNECTIONS TO COLUMNS. THE ROOT OF THE WELD SHALL BE BACK GOUGED TO SOUND METAL TO REMOVE ALL SLAG AND CRACKS. WELD THE BACK-GOUGED REGION AND FINISH WELDING USING A REINFORCING FILLET WELD, ACCORDING TO SECTION 5.10.4.
   f. BACKER BARS NEED NOT BE REMOVED FROM THE BEAM TOP FLANGE CONNECTIONS TO COLUMNS PROVIDED THAT THE BACKER BARS ARE WELDED TO THE COLUMN FLANGE WITH A CONTINUOUS FILLET WELD FOR THE ENTIRE LENGTH OF THE BACKER BAR.
   g. UNREPAIRED CRACKS, GOUGES, AND NOTCHES WILL NOT BE PERMITTED IN THE JOINT AREA.
   h. USE ELECTRODES WITH CHARPY V-NOTCH ABSORBED ENERGY EQUAL TO OR GREATER THAN 20 FT-LBS AT -20 DEGREES FAHRENHEIT UNDER AWS A5 CLASSIFICATION TEST METHODS, AND 40 FT-LBS AT 70 DEGREES FAHRENHEIT USING TEST PROCEDURES PRESCRIBED IN APPENDIX X OF AISC 358. ACCEPTABLE ELECTRODES INCLUDE E70TG-K2, E71T-8, AND E71T-1.
6. ALL NON-FULL PENETRATION WELDS USED IN MOMENT FRAMES SHALL BE MADE WITH A FILLER METAL THAT CAN PRODUCE WELDS THAT HAVE A MINIMUM CHARPY V-NOTCH TOUGHNESS OF 20 FT-LB AT 0 DEGREES F, AS DETERMINED AS DETERMINED BY THE APPROPRIATE AWS A5 CLASSIFICATION TEST METHOD OR MANUFACTURER CERTIFICATION.
7. IN SPECIAL MOMENT FRAMES THE REGION AT THE END OF THE BEAM AS SHOWN IN DETAIL D1/S204 IS DESIGNATED AS A PROTECTED ZONE. WELDED, SCREWED, OR SHOT-IN ATTACHMENTS FOR WELDED SHEAR STUDS, PERIMETER EDGE ANGLES, EXTERIOR FACADES, PARTITIONS, DUCT WORK, PIPING OR OTHER CONSTRUCTION SHALL NOT BE PLACED WITHIN THE PROTECTED ZONES. DECKING ARC SPOT WELDS AS REQUIRED TO SECURE DECKING SHALL BE PERMITTED. WHERE DISCONTINUITIES, OR ATTACHMENTS HAVE BEEN MADE WITHIN THE PROTECTED ZONE, THEY SHALL BE REPAIRED AS REQUIRED BY THE ENGINEER OF RECORD.


VCBO
ARCHITECTURE
VALENTINER
CRANE
BRUNJES
ONYON

PROFESSIONAL STRUCTURAL ENGINEER
Jeremy A. Achter
No. 353467
10.2.12
STATE OF UTAH

VCBO ARCHITECTURE
524 SOUTH 600 EAST
SALT LAKE CITY, UT 84102
Phone: (801) 575-8800
Fax: (801) 531-9850
www: www.vcbo.com


# Student Activity Center

Stromberg Addition - BID SET

Weber State University
3750 Harrison Blvd. Ogden, UT 84408

| Rev # | Date | Description |
|---|---|---|

DFCM CODE COMPLIANCE STAMP

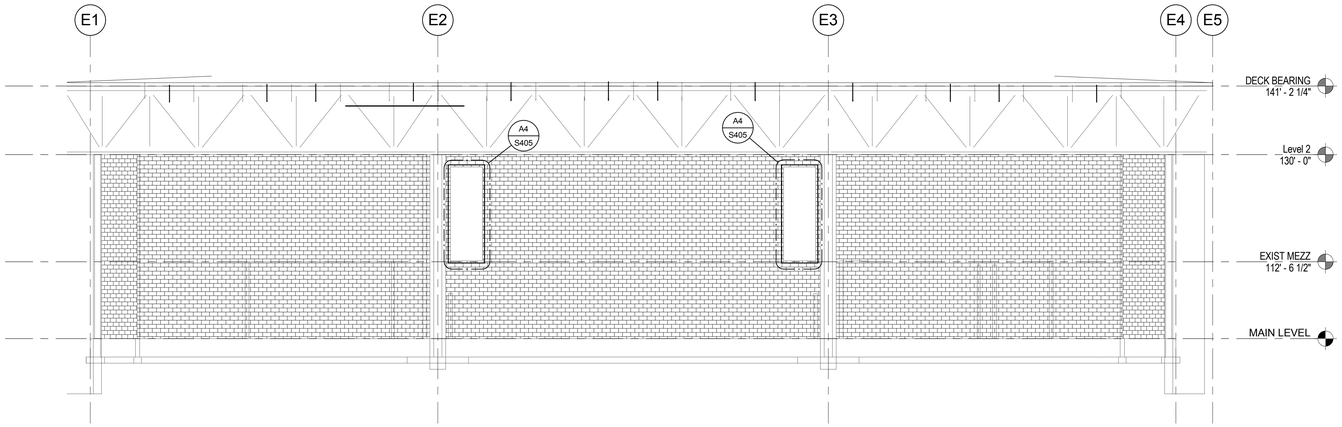

ENGINEERS
structural consultants
1568 W. Park Dr. Ogden, Utah 84404
ph: 801.782.6008 fx: 801.782.4656


Job # 12475
CAD File
Drawn BLP Checked JLA
Date 10.03.2012
Owner # DFCM #12031810

MOMENT FRAME ELEVATIONS

S204

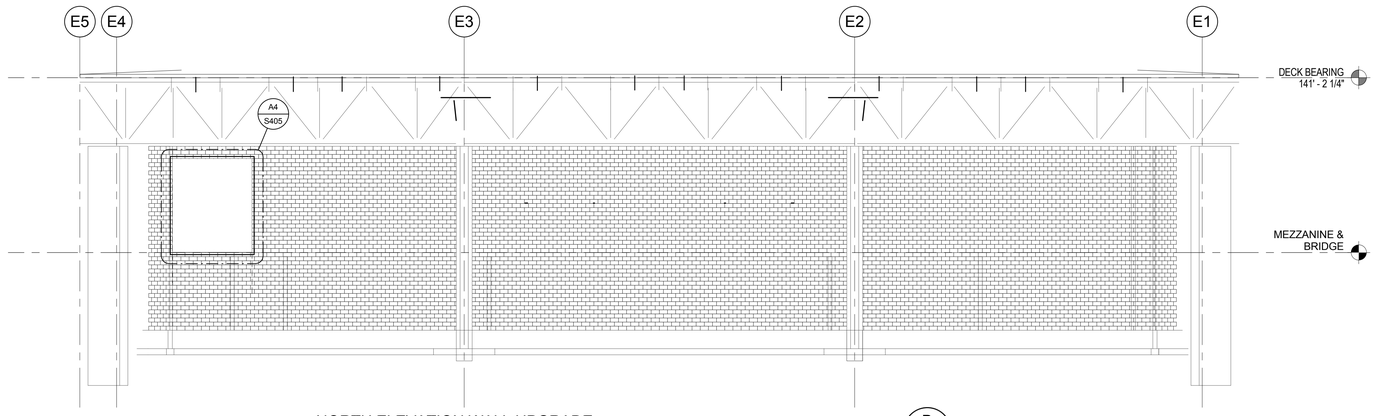
10/2/2012 6:37:59 PM




SOUTH ELEVATION WALL UPGRADE

SCALE : 1" = 10'-0"

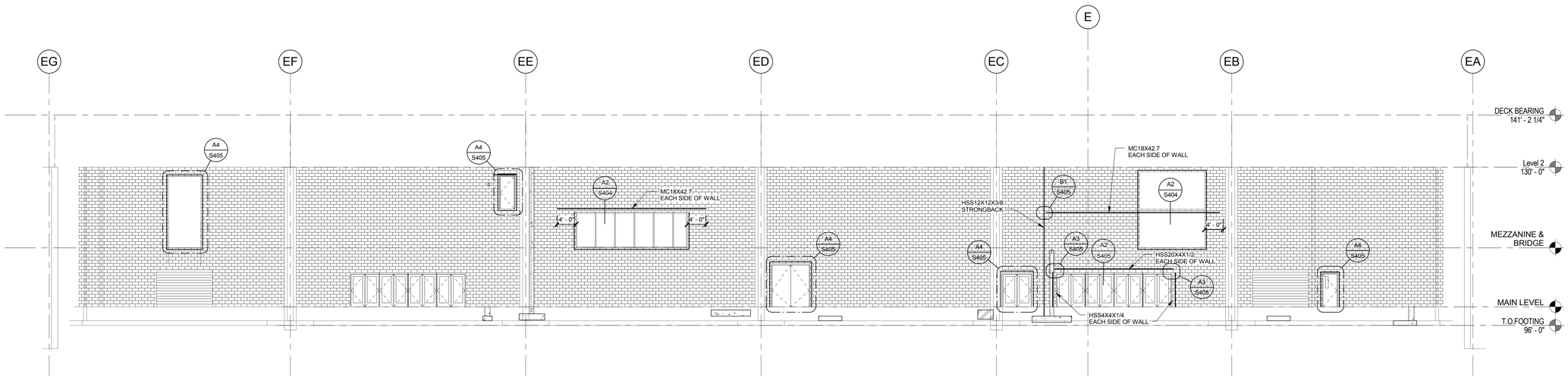
C
S205




NORTH ELEVATION WALL UPGRADE

SCALE : 1" = 10'-0"

B
S205




WEST ELEVATION WALL UPGRADE

SCALE : 1" = 10'-0"

A
S205

10/2/2012 6:37:56 PM

VCBO
ARCHITECTURE
VALENTINER
CRANE
BRUNJES
ONYON

PROFESSIONAL STRUCTURAL ENGINEER
Jeremy L. Achter
No. 353467
10.2.12
STATE OF UTAH

VCBO ARCHITECTURE
524 SOUTH 600 EAST
SALT LAKE CITY, UT 84102
Phone: (801) 575-8800
Fax: (801) 531-9850
WWW: www.vcbo.com

DFCM CODE COMPLIANCE STAMP

A R W ENGINEERS
structural consultants
1556 W. Park Dr. Ogden, Utah 84404
ph: 801.782.6008 fx: 801.782.4656

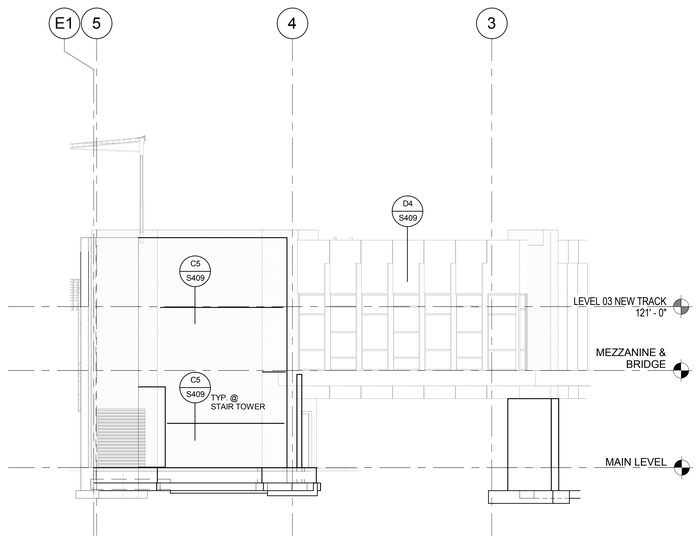
# Student Activity Center
## Stromberg Addition - BID SET
Weber State University
3750 Harrison Blvd. Ogden, UT 84408

| Rev # | Date | Description |
|---|---|---|

Job # 12475
CAD File
Drawn BLP Checked JLA
Date 10.03.2012
Owner # DFCM #12031810

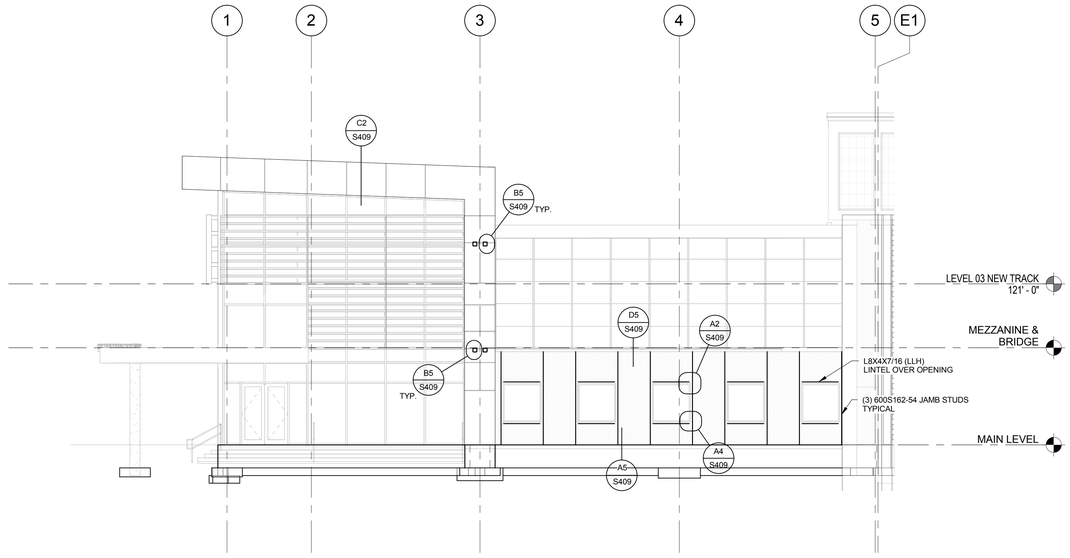
EXISTING WALL ELEVATIONS

S205



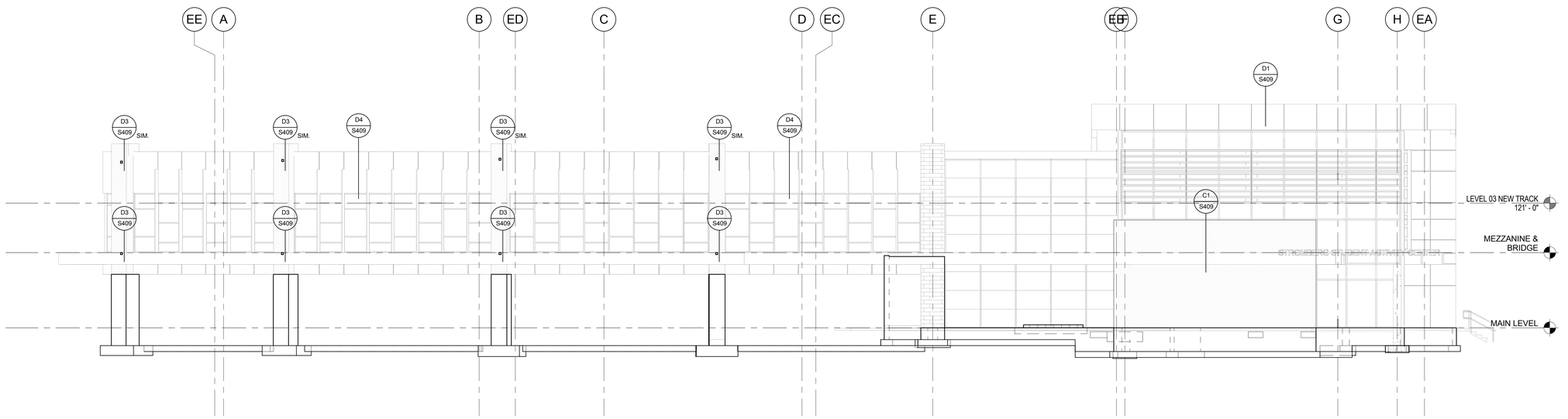

NORTH ELEVATION
SCALE : 1/8" = 1'-0"

B
S206




S206- SOUTH ELEVATION
SCALE : 1/8" = 1'-0"

C
S206




WEST ELEVATION
SCALE : 1/8" = 1'-0"

A
S206

10/2/2012 6:37:55 PM

VCBO
ARCHITECTURE
VALENTINER
CRANE
BRUNJES
ONYON

PROFESSIONAL STRUCTURAL ENGINEER
Jeremy A. Achter
No. 353467
10.2.12
STATE OF UTAH

VCBO ARCHITECTURE
524 SOUTH 600 EAST
SALT LAKE CITY, UT 84102
Phone: (801) 575-8800
Fax: (801) 531-9850
WWW: www.vcbo.com

DFCM CODE COMPLIANCE STAMP

ARW ENGINEERS
structural consultants
1556 W. Park Dr. Ogden, Utah 84404
ph: 801.782.6006 fx: 801.782.4656

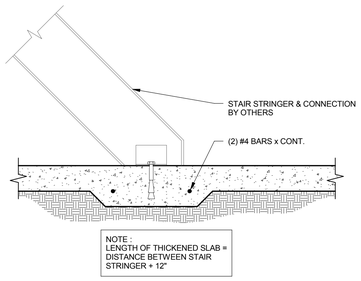
# Student Activity Center
## Stromberg Addition - BID SET
Weber State University
3750 Harrison Blvd. Ogden, UT 84408

| Rev # | Date | Description |
|---|---|---|

Job # 12475
CAD File
Drawn BLP Checked JLA
Date 10.03.2012
Owner # DFCM #12031810

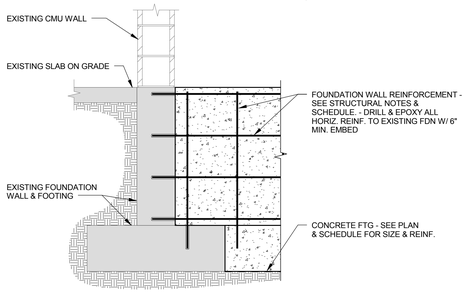
METAL STUD FRAMING ELEVATIONS

S206



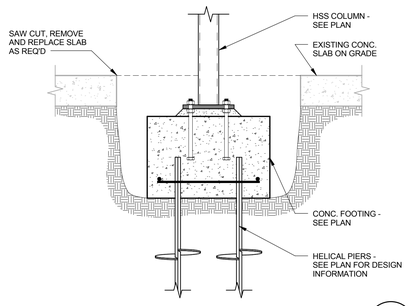

## THICKENED SLAB @ STAIR — E1 / S401

SCALE : NONE



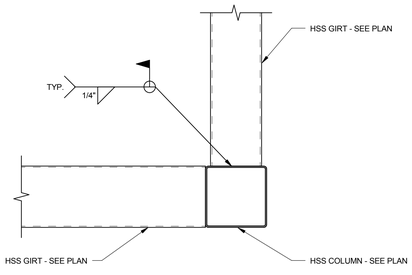

## TYP. FOOTING & FOUNDATION INTO EXISTING FOOTING & FOUNDATION — E2 / S401

SCALE : NONE



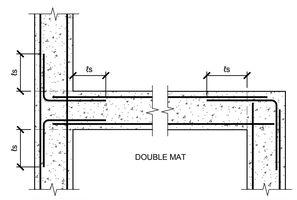

## DETAIL — E3 / S401

SCALE : NONE

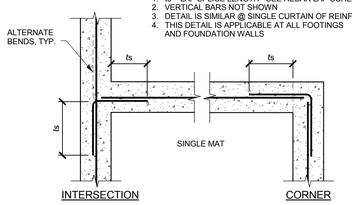



## TYPICAL WIND GIRT CONNECTION — E5 / S401

SCALE : NONE

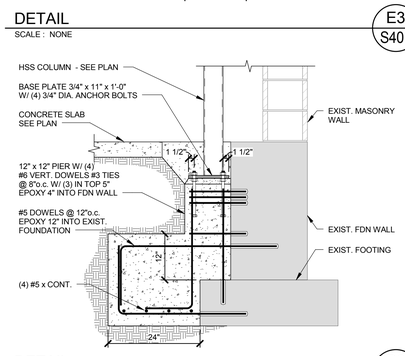



NOTES:
1. ts = LAP SPLICE LENGTH - SEE REBAR LAP SCHEDULE
2. VERTICAL BARS NOT SHOWN
3. DETAIL IS SIMILAR @ SINGLE CURTAIN OF REINF.
4. THIS DETAIL IS APPLICABLE AT ALL FOOTINGS AND FOUNDATION WALLS



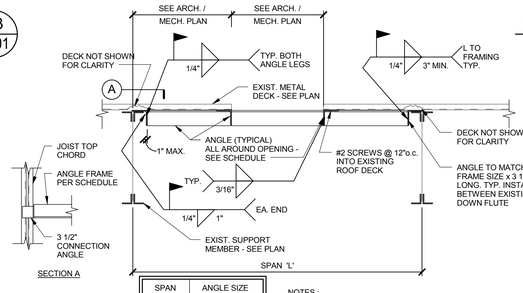

## TYP REINF. @ INTERSECTIONS IN CONC. DETAIL — C1 / S401

SCALE : NONE




## DETAIL — D3 / S401

SCALE : NONE



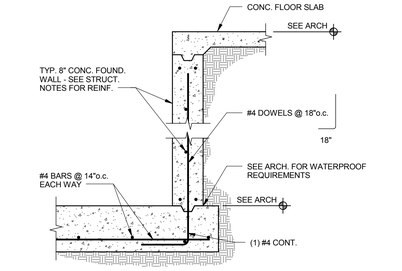

SECTION A

| SPAN | ANGLE SIZE |
|---|---|
| L < 6'-0" | L 4 x 4 x 1/4 |
| L < 8'-0" | L 4 x 4 x 3/8 |
| L < 10'-0" | L 5 x 5 x 3/8 |

NOTES :
1. THIS DETAIL APPLIES TO ROOF OPENINGS LARGER THAN 18" IN EITHER DIRECTION. WHERE THERE IS NO OPENING IN ROOF, PLACE FRAME UNDER CURB.
2.

## TYP. FRAMING @ ROOF OPENINGS & ROOFTOP EQUIPMENT @ EXIST. ROOF — D4 / S401

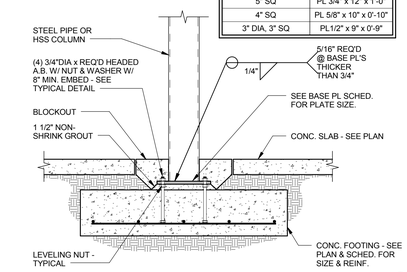
SCALE : NONE




## CONCRETE FDN @ OPENING DETAIL — D5 / S401

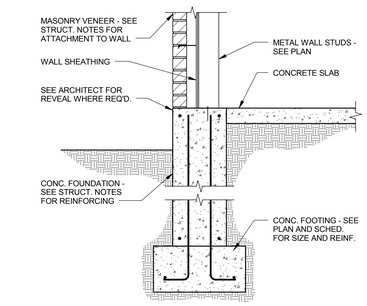
SCALE : NONE

| BASE PLATE SCHEDULE | |
|---|---|
| COLUMN SIZE | BASE PLATE SIZE |
| 12" SQ. | PL 3/4" x 18" x 1'-6" |
| 10" SQ. | PL 3/4" x 16" x 1'-4" |
| 8" SQ, 10" DIA | PL 3/4" x 14" x 1'-2" |
| 7" SQ | PL 3/4" x 13" x 1'-1" |
| 6" SQ , 8" DIA | PL 3/4" x 12" x 1'-0" |
| 5" SQ | PL 3/4" x 12" x 1'-0" |
| 4" SQ | PL 5/8" x 10" x 0'-10" |
| 3" DIA, 3" SQ | PL1/2" x 9" x 0'-9" |



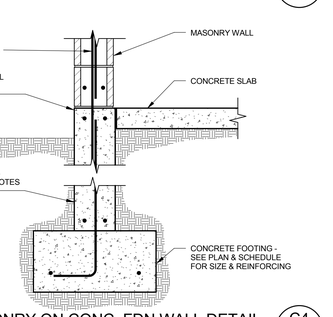

## COLUMN TO SPOT FOOTING — C2 / S401

SCALE : NONE




## SECTION @ EXTERIOR WALL — C3 / S401

SCALE : NONE



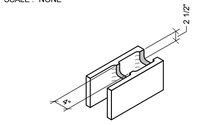

## TYP. MASONRY ON CONC. FDN WALL DETAIL — C4 / S401

SCALE : NONE

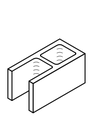



## SECTION @ ELEVATOR PIT — C5 / S401

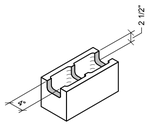
SCALE : NONE




TYPICAL 8" OPEN-END BOND BEAM CMU
(FOR USE IN CMU LINTELS)



TYPICAL 8" OPEN-END CMU
(FOR USE IN ALL CMU LINTELS, U.N.O.)

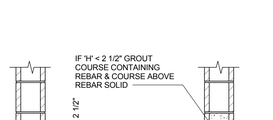



TYPICAL 8" BOND BEAM CMU ("H" BLOCK)
(FOR USE IN ALL BOND BEAMS, U.N.O.)

NOTES:
1. ALL 8" OPEN-END AND BOND-BEAM CMU UNITS SHALL MEET THE MINIMUM DIMENSIONS SHOWN.
2. STANDARD 8" CMU UNITS MAY BE CUT, CHIPPED, OR MODIFIED TO CREATE OPEN-END OR BOND BEAM UNITS, PROVIDED THE FINAL CONFIGURATION MEETS THE MINIMUM DIMENSION SHOWN.

## TYPICAL CMU BLOCK — B1 / S401

SCALE : NONE

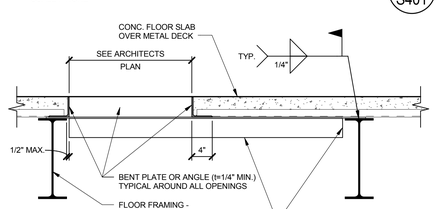



TYPICAL BOND BEAM GROUTING

ALTERNATE BOND BEAM GROUTING
WHEN 'H' ≤ 2 1/2"

## TYP. BOND BEAM GROUTING — B2 / S401

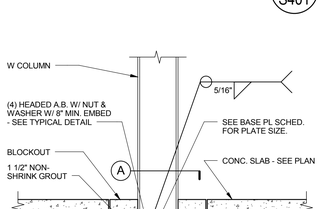
SCALE : NONE




NOTE :
THIS DETAIL APPLIES TO MISCELLANEOUS SLAB OPENINGS NOT LARGER THAN 4'-0" x 4'-0"

## TYP. FRAMING @ FLOOR OPENING — B3 / S401

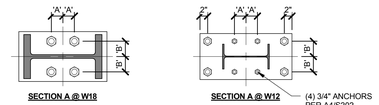
SCALE : NONE

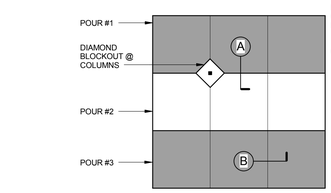



## COLUMN TO SPOT FOOTING — B4 / S401

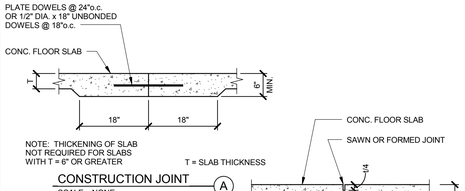
SCALE : NONE

| BASE PLATE SCHEDULE | | | | |
|---|---|---|---|---|
| COLUMN SIZE | BASE PL. SIZE (Fy = 50 ksi) | DIMENSION 'A' | DIMENSION 'B' | A.B. SIZE |
| W18 | 1" x 13" x 1'-11" | 3" | 4" | 1-1/2" |
| W12 | 3" x 12" x 2'-0" | 3" | 4" | 1-3/8" |




NOTES:
1. JOINTS SHALL OCCUR AT MAIN COLUMN/GRID LINES W/ 10'-0" MAX. SPACING BETWEEN JOINTS @ 4" SLABS; 12'-0" MAX. @ 5" SLABS, & 15'-0" MAX. @ 6" SLABS.
2. SEE PLAN FOR SLAB THICKNESS 'T' AND REINFORCING SIZE AND SPACING.



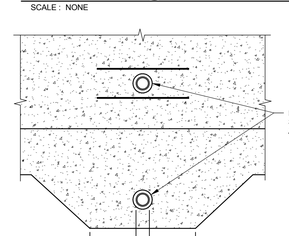

CONSTRUCTION JOINT
SCALE : NONE — A

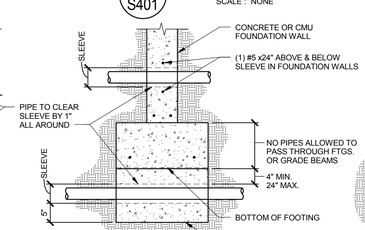



CONTROL JOINT
SCALE : NONE — B

## TYPICAL CONCRETE SLAB JOINTS — A1 / S401

SCALE : NONE

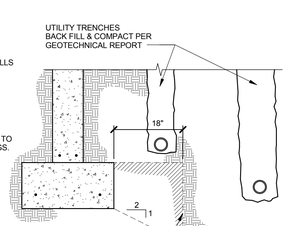



NOTE :
FOR OPENINGS LARGER THAN 12" IN ANY DIRECTION - SEE STRUCTURAL NOTE E-6.

NOTE :
1. DETAIL IS SIMILAR AT MASONRY FOUNDATION WALLS.
2. SEE TYPICAL DETAIL FOR MULTIPLE WALL PENETRATIONS.

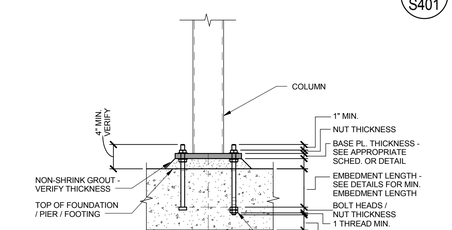
PIPE CROSSING FOOTING / FOUNDATION WALL




PIPE PARALLEL TO FOOTING

## ALLOWABLE PIPING LOCATIONS @ FOOTING DETAIL — A3 / S401

SCALE : NONE




## TYPICAL ANCHOR BOLT EMBEDMENT DETAIL — A5 / S401

SCALE : NONE


VCBO
ARCHITECTURE
VALENTINER
CRANE
BRUNJES
ONYON

PROFESSIONAL STRUCTURAL ENGINEER — Jeremy C. Achter — No. 353467 — 10.2.12 — STATE OF UTAH

VCBO ARCHITECTURE
524 SOUTH 600 EAST
SALT LAKE CITY, UT 84102
Phone: (801) 575-8800
Fax: (801) 531-9850
www: www.vcbo.com


DFCM CODE COMPLIANCE STAMP

ARW ENGINEERS
structural consultants
1599 W. Park Dr. Ogden, Utah 84404
ph: 801.782.6008 fl. 801.782.4656

# Student Activity Center
Stromberg Addition - BID SET
Weber State University
3750 Harrison Blvd. Ogden, UT 84408

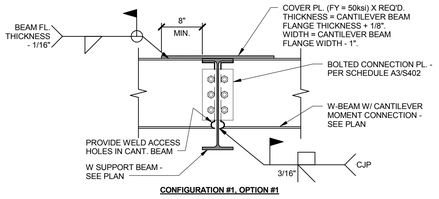
| Rev # | Date | Description |
|---|---|---|

Job # 12475
CAD File
Drawn BLP Checked JLA
Date 10.03.2012
Owner # DFCM #12031810

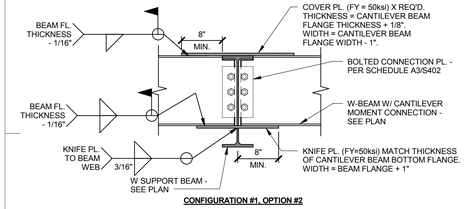
TYPICAL DETAILS

S401

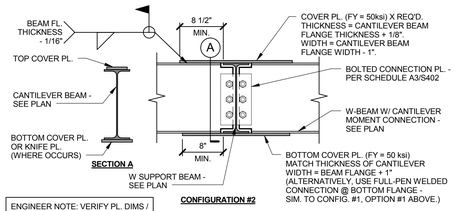
10/2/2012 6:37:52 PM




**CONFIGURATION #1, OPTION #1**



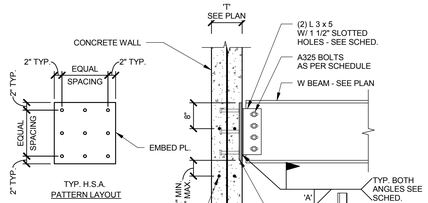

**CONFIGURATION #1, OPTION #2**




**CONFIGURATION #2**

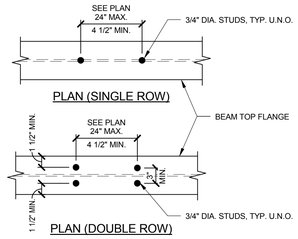
ENGINEER NOTE: VERIFY PL. DIMS / THICKNESS ARE COMPATIBLE W/ SPECIFIED BEAMS

## DETAIL
SCALE : NONE — D1 / S402



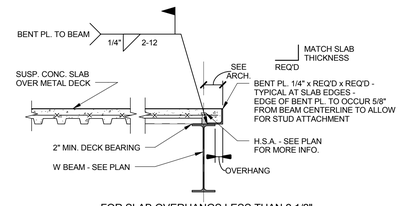

| BEAM SIZE | ANGLE SIZE (EA. SIDE) | WELD 'A' | BOLTS | EMBED PLATE | # OF H.S.A. | H.S.A. PATTERN |
|---|---|---|---|---|---|---|
| W8x, C8x | 3 x 5 x 1/4 | 3/16" | (2) 3/4"DIA | 8" x 8" | 4 | |
| W10x | 3 x 5 x 5/16 | 1/4" | (2) 3/4"DIA | 12" x 1'-4" | 6 | |
| W14x | 3 x 5 x 5/16 | 1/4" | (3) 3/4"DIA | 15" x 1'-4" | 9 | |
| W24x | 3 x 5 x 3/8 | 1/4" | (7) 7/8"DIA | 15" x 2'-0" | 12 | |

## BEAM INTO CONCRETE
SCALE : NONE — D2 / S402

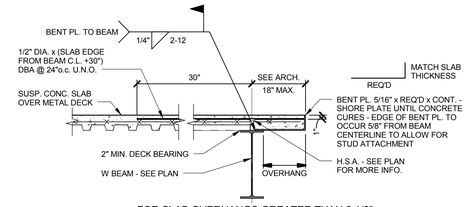



NOTE:
1. SEE STRUCTURAL NOTES FOR ADDITIONAL SHEAR CONNECTION INFORMATION

## TYP. SHEAR STUD CONNECTION DETAIL
SCALE : NONE — D3 / S402

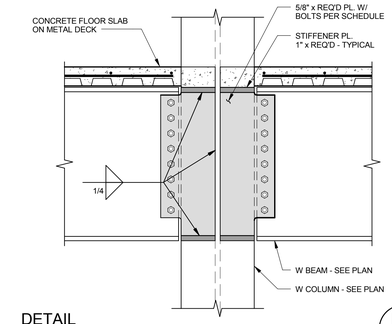



FOR SLAB OVERHANGS LESS THAN 2 1/2"

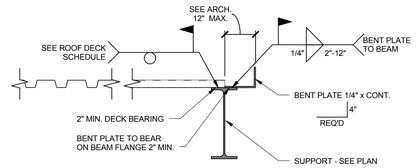



FOR SLAB OVERHANGS GREATER THAN 2 1/2"

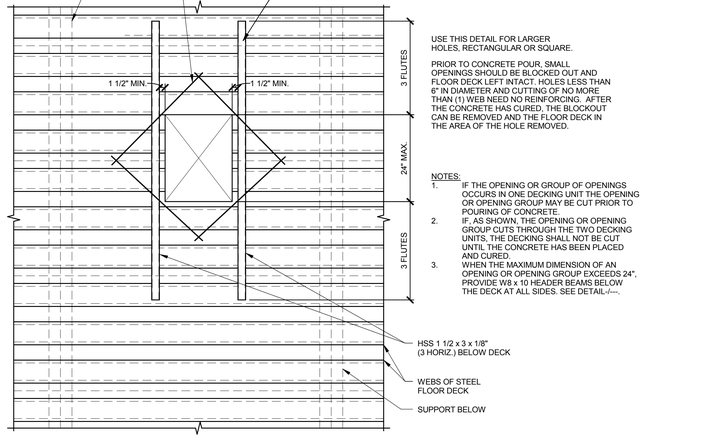
## DECK EDGE ON BEAM
SCALE : NONE — E4 / S402




## DETAIL
SCALE : NONE — D4 / S402

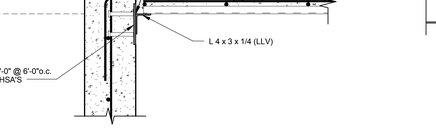



## DECK EDGE ON BEAM
SCALE : NONE — D5 / S402

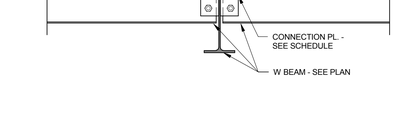



NOTES:
1. IF THE OPENING OR GROUP OF OPENINGS OCCURS IN ONE DECKING UNIT THE OPENING OR OPENING GROUP MAY BE CUT PRIOR TO POURING OF CONCRETE.
2. IF, AS SHOWN, THE OPENING OR OPENING GROUP CUTS THROUGH THE TWO DECKING UNITS, THE DECKING SHALL NOT BE CUT UNTIL THE CONCRETE HAS BEEN PLACED AND CURED.
3. WHEN THE MAXIMUM DIMENSION OF AN OPENING OR OPENING GROUP EXCEEDS 24", PROVIDE W8 x 10 HEADER BEAMS BELOW THE DECK AT ALL SIDES. SEE DETAIL-/---.

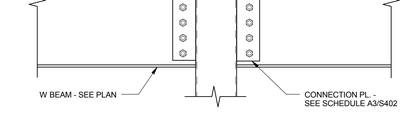
## TYP. REINFORCEMENT @ OPENINGS IN SUSPENDED CONCRETE SLAB
SCALE : NONE — B1 / S402



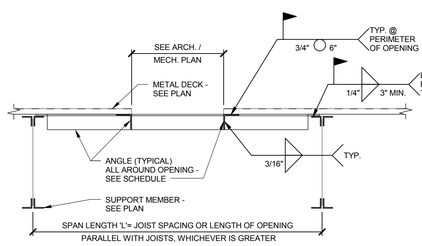

## CONCRETE DECK INTO CONCRETE WALL
SCALE : NONE — C3 / S402




## BEAMS INTO GIRDER
SCALE : NONE — C4 / S402



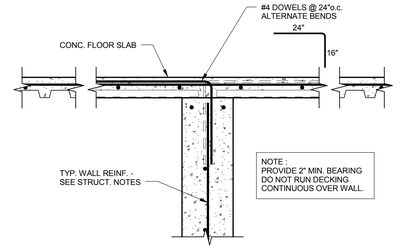

## BEAM INTO COLUMN
SCALE : NONE — C5 / S402



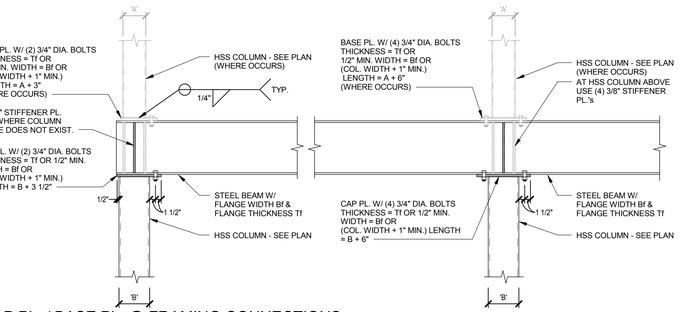

| SPAN | ANGLE SIZE |
|---|---|
| L < 6'-0" | L 4 x 4 x 1/4 |
| L < 8'-0" | L 4 x 4 x 3/8 |
| L < 10'-0" | L 5 x 5 x 3/8 |

NOTES:
1. THIS DETAIL APPLIES TO ROOF OPENINGS LARGER THAN 18" IN EITHER DIRECTION.
2. WHERE THERE IS NO OPENING IN ROOF, PLACE FRAME UNDER CURB.
3. MECHANICAL CURB ATTACHMENT TO STRUCTURE IS BY OTHERS.
4. THIS DETAIL OCCURS UNDER THE CURB AND AROUND THE OPENING. WHERE NO OPENING OCCURS, FRAME OCCURS BELOW CURB ONLY.

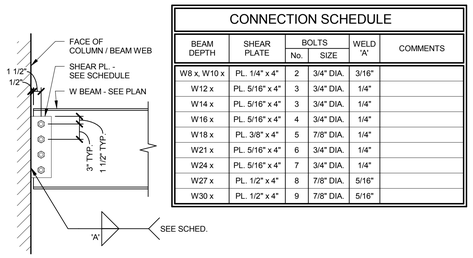
## TYP. FRAMING @ ROOF OPN'GS & ROOFTOP EQUIPMENT DETAIL
SCALE : NONE — B3 / S402




## DECK ACROSS CONCRETE
SCALE : NONE — B5 / S402

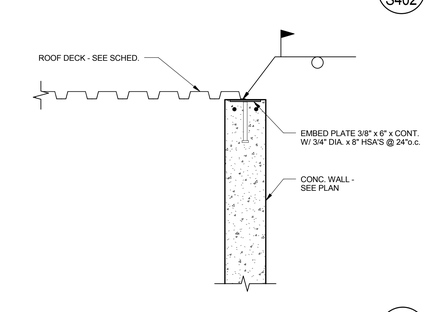



## TYPICAL CAP PL. / BASE PL. @ FRAMING CONNECTIONS
SCALE : NONE — A1 / S402

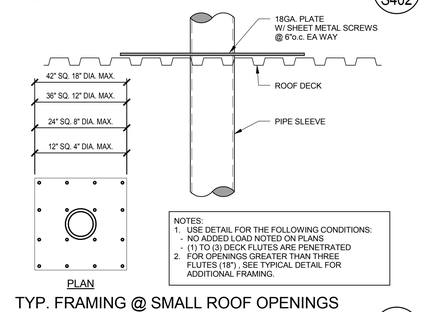



| CONNECTION SCHEDULE | | | | | |
|---|---|---|---|---|---|
| BEAM DEPTH | SHEAR PLATE | BOLTS No. | BOLTS SIZE | WELD 'A' | COMMENTS |
| W8 x, W10 x | PL. 1/4" x 4" | 2 | 3/4" DIA. | 3/16" | |
| W12 x | PL. 5/16" x 4" | 3 | 3/4" DIA. | 1/4" | |
| W14 x | PL. 5/16" x 4" | 3 | 3/4" DIA. | 1/4" | |
| W16 x | PL. 5/16" x 4" | 4 | 3/4" DIA. | 1/4" | |
| W18 x | PL. 3/8" x 4" | 5 | 7/8" DIA. | 1/4" | |
| W21 x | PL. 5/16" x 4" | 6 | 3/4" DIA. | 1/4" | |
| W24 x | PL. 5/16" x 4" | 7 | 3/4" DIA. | 1/4" | |
| W27 x | PL. 1/2" x 4" | 8 | 7/8" DIA. | 5/16" | |
| W30 x | PL. 1/2" x 4" | 9 | 7/8" DIA. | 5/16" | |

## TYPICAL BEAM CONNECTIONS DETAIL
SCALE : NONE — A3 / S402




## DETAIL
SCALE : NONE — A4 / S402




PLAN

NOTES:
1. USE DETAIL FOR THE FOLLOWING CONDITIONS:
   - NO ADDED LOAD NOTED ON PLANS
   - (1) TO (3) DECK FLUTES ARE PENETRATED
2. FOR OPENINGS GREATER THAN THREE FLUTES (18"), SEE TYPICAL DETAIL FOR ADDITIONAL FRAMING.

## TYP. FRAMING @ SMALL ROOF OPENINGS DETAIL
SCALE : NONE — A5 / S402


VCBO ARCHITECTURE
VALENTINER CRANE BRUNJES ONYON

VCBO ARCHITECTURE
524 SOUTH 600 EAST
SALT LAKE CITY, UT 84102
Phone: (801) 575-8800
Fax: (801) 531-9850
www: www.vcbo.com


PROFESSIONAL STRUCTURAL ENGINEER — Jeremy A. Achter — No. 353467 — 10.2.12 — STATE OF UTAH

DFCM CODE COMPLIANCE STAMP

ARW ENGINEERS — structural consultants — 1599 W. Park Dr. Sydney, Utah 84404 ph: 801.782.6008 fx. 801.782.4656

# Student Activity Center
Stromberg Addition - BID SET
Weber State University
3750 Harrison Blvd. Ogden, UT 84408

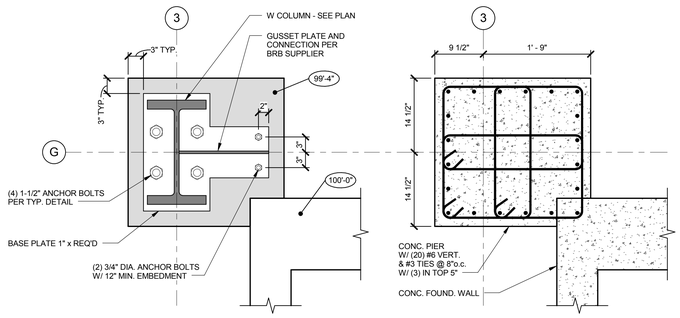
| Rev # | Date | Description |
|---|---|---|

Job # 12475
CAD File
Drawn BLP Checked JLA
Date 10.03.2012
Owner # DFCM #12031810

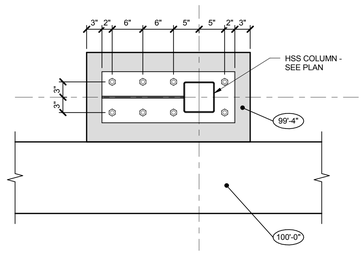
TYPICAL DETAILS

S402

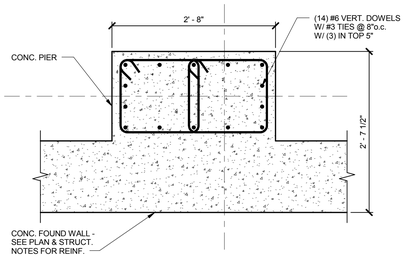
10/2/2012 6:37:50 PM



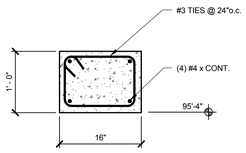

## DETAIL
SCALE : NONE — E1 / S403



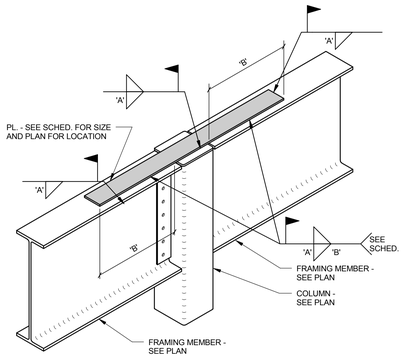

## DETAIL
SCALE : NONE — E3 / S403




## DETAIL
SCALE : NONE — E5 / S403

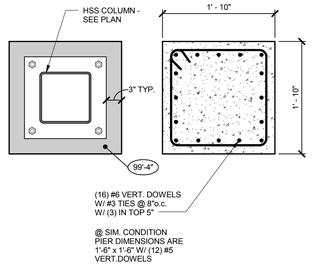



NOTE: #4 CONT. REBAR SHALL RUN CONTINUOUS THROUGH SPOT FOOTINGS

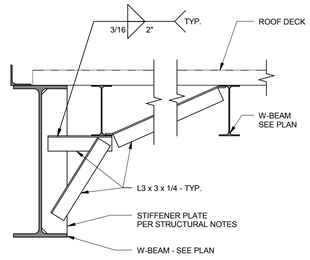



| SEISMIC STRAP SCHEDULE | | | |
|---|---|---|---|
| MARK | STRAP SIZE | WELD SIZE 'A' | WELD LENGTH 'B' |
| SS1 | PL. 1/4" x 4" x REQ'D | 1/4" | 6" |
| SS2 | PL. 5/8" x 5" x REQ'D | 1/4" | 8" |
| | | | |
| | | | |

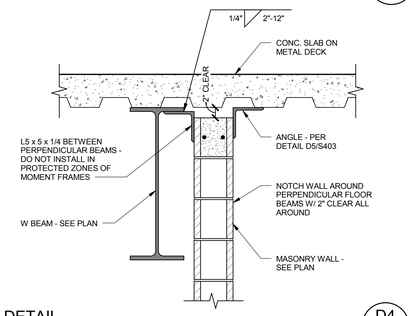
## SEISMIC STRAP SCHEDULE
SCALE : NONE — C1 / S403



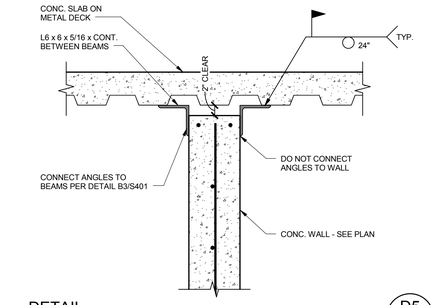

## DETAIL
SCALE : NONE — D2 / S403



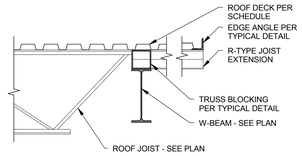

## DETAIL
SCALE : NONE — D3 / S403



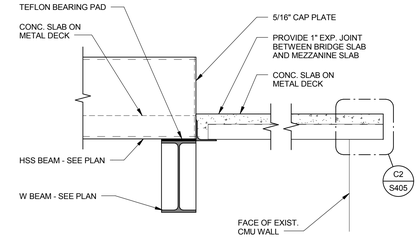

## DETAIL
SCALE : NONE — D4 / S403



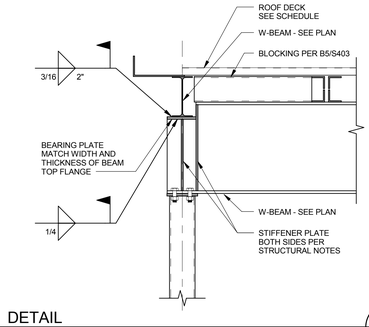

## DETAIL
SCALE : NONE — D5 / S403



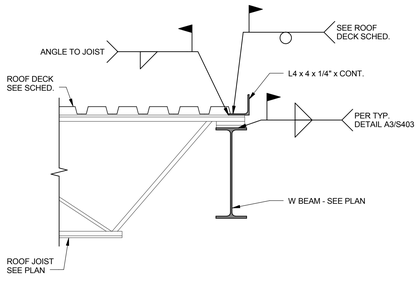

## DETAIL
SCALE : NONE — C3 / S403



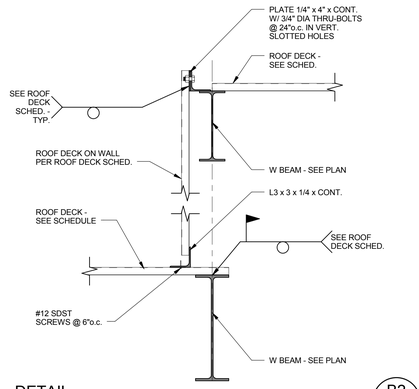

## DETAIL
SCALE : NONE — C4 / S403



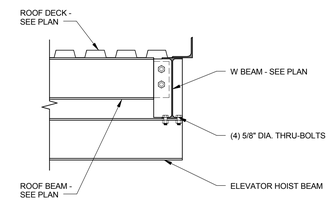

## DETAIL
SCALE : NONE — C5 / S403



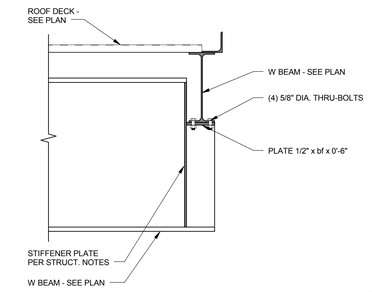

## DETAIL
SCALE : NONE — B1 / S403



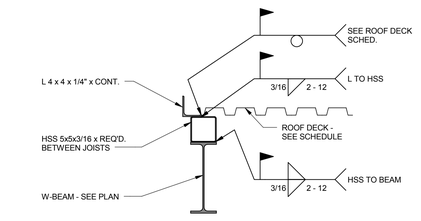

## DETAIL
SCALE : NONE — B2 / S403



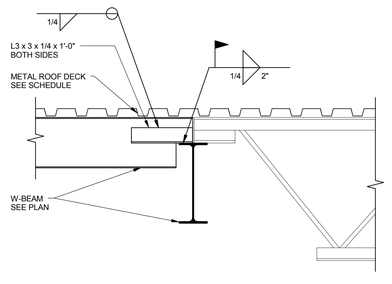

## DETAIL
SCALE : NONE — B3 / S403



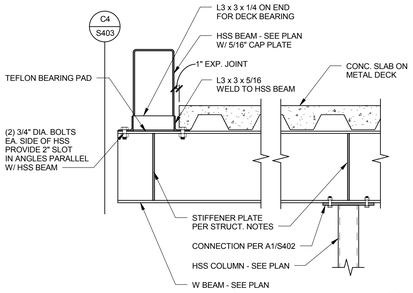

## DETAIL
SCALE : NONE — B4 / S403



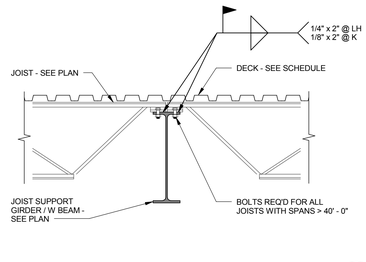

## BLOCKING ON BEAM
SCALE : NONE — B5 / S403



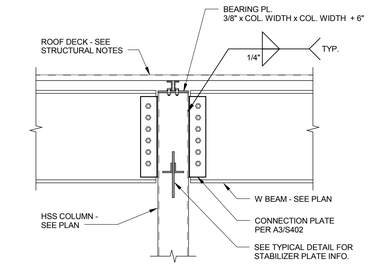

## DETAIL
SCALE : NONE — A1 / S403



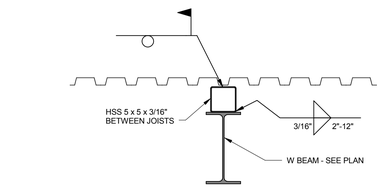

## DETAIL
SCALE : NONE — A2 / S403




## JOISTS ON BEAM
SCALE : NONE — A3 / S403




## BEAMS & JOISTS INTO HSS COLUMN
SCALE : NONE — A4 / S403




## DETAIL
SCALE : NONE — A5 / S403

VCBO
ARCHITECTURE
VALENTINER
CRANE
BRUNJES
ONYON

PROFESSIONAL STRUCTURAL ENGINEER — Jeremy A. Achter — No. 353467 — 10.2.12 — STATE OF UTAH

VCBO ARCHITECTURE
524 SOUTH 600 EAST
SALT LAKE CITY, UT 84102
Phone: (801) 575-8800
Fax: (801) 531-9850
www: www.vcbo.com

DFCM CODE COMPLIANCE STAMP

ARW ENGINEERS
structural consultants
1594 W. Park Dr. Sydney, Utah 84404
ph: 801.782.6008 fx: 801.782.4656

# Student Activity Center
## Stromberg Addition - BID SET
Weber State University
3750 Harrison Blvd. Ogden, UT 84408

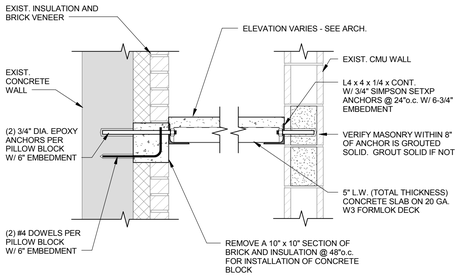
| Rev # | Date | Description |
|---|---|---|

Job # 12475
CAD File
Drawn BLP Checked JLA
Date 10.03.2012
Owner # DFCM #12031810

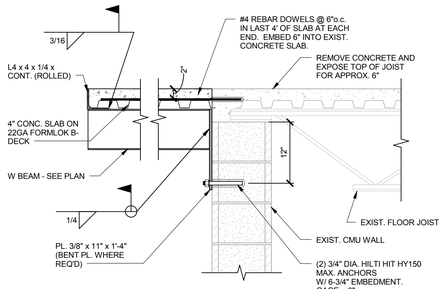
DETAILS

S403

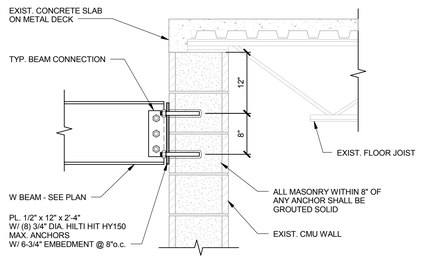
10/2/2012 6:37:49 PM



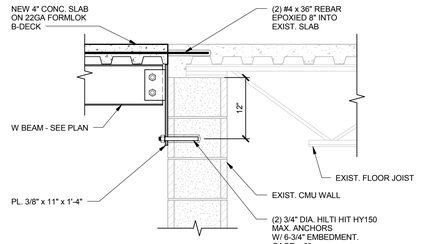

DETAIL — SCALE : NONE — E1 / S404



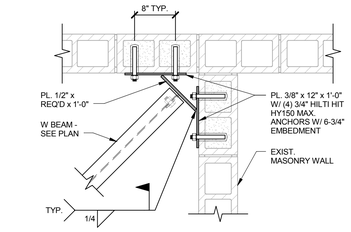

DETAIL — SCALE : NONE — E2 / S404



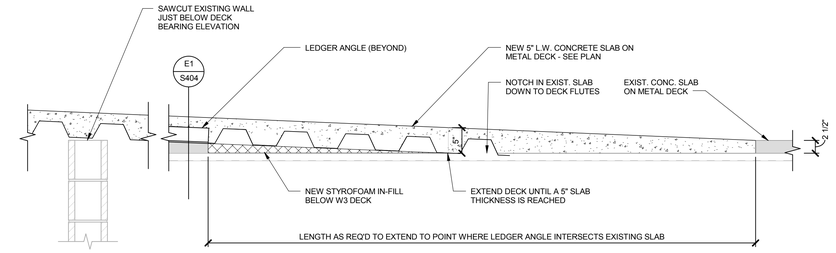

DETAIL — SCALE : NONE — E3 / S404



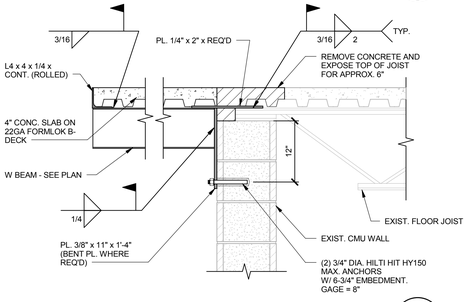

DETAIL — SCALE : NONE — E4 / S404



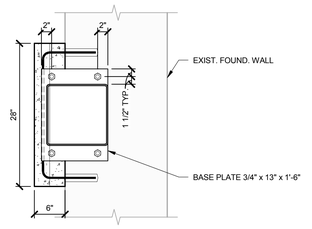

DETAIL — SCALE : NONE — E5 / S404



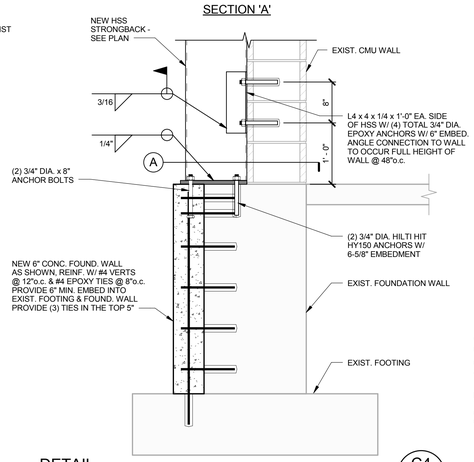

DETAIL — SCALE : NONE — D1 / S404



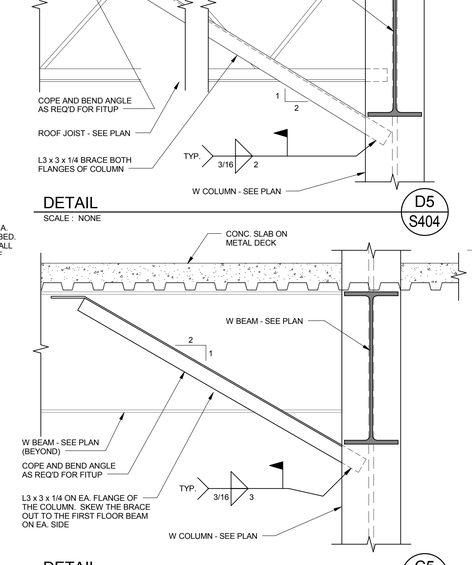

DETAIL — SCALE : NONE — D3 / S404



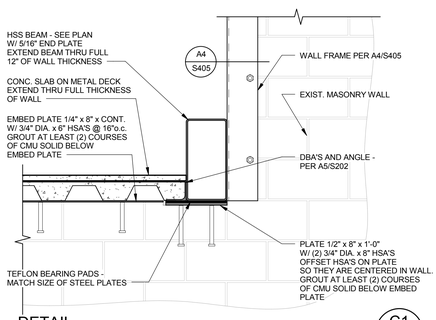

SECTION 'A'



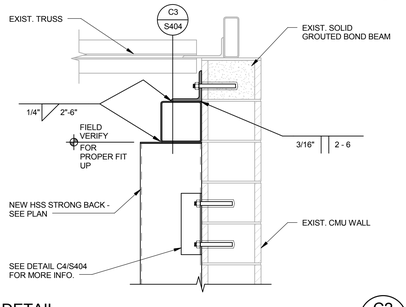

DETAIL — SCALE : NONE — C4 / S404



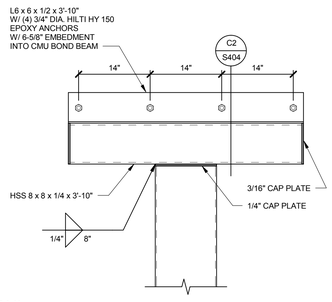

DETAIL — SCALE : NONE — D5 / S404




DETAIL — SCALE : NONE — C1 / S404



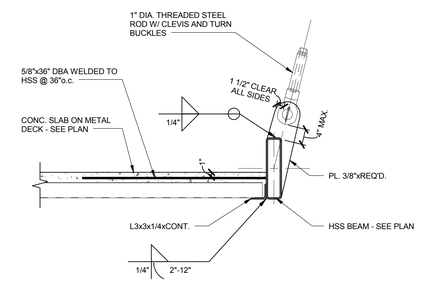

DETAIL — SCALE : NONE — C2 / S404



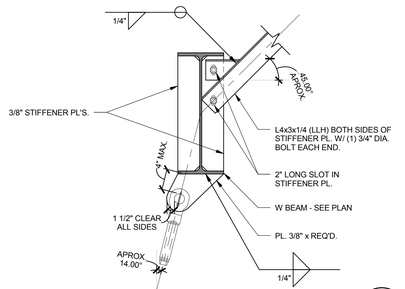

DETAIL — SCALE : NONE — C3 / S404



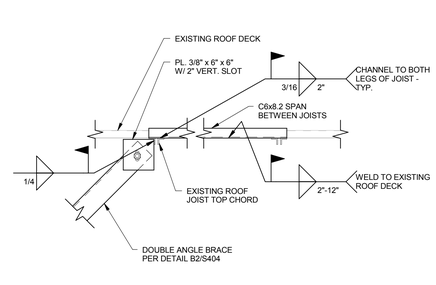

DETAIL — SCALE : NONE — C5 / S404



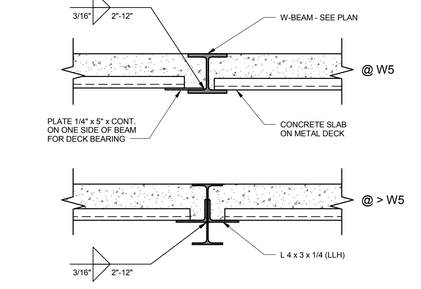

DETAIL — SCALE : NONE — B1 / S404



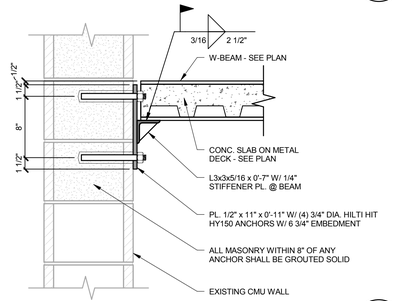

DETAIL — SCALE : NONE — B2 / S404



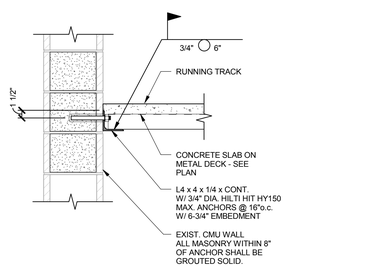

DETAIL — SCALE : NONE — B3 / S404



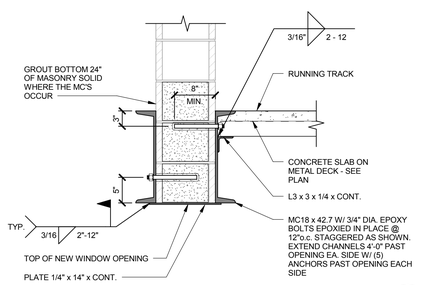

DETAIL — SCALE : NONE — B4 / S404



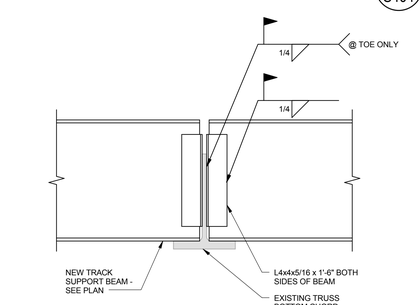

DETAIL — SCALE : NONE — B5 / S404



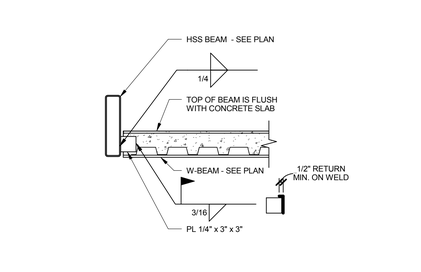

DETAIL — SCALE : NONE — A1 / S404



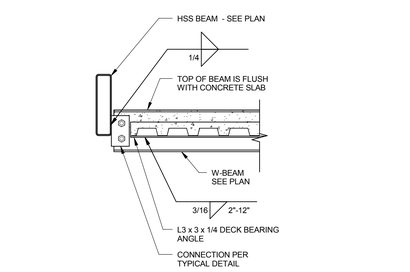

DETAIL — SCALE : NONE — A2 / S404




DETAIL — SCALE : NONE — A3 / S404




DETAIL — SCALE : NONE — A4 / S404




DETAIL — SCALE : NONE — A5 / S404

VCBO ARCHITECTURE
524 SOUTH 600 EAST
SALT LAKE CITY, UT 84102
Phone: (801) 575-8800
Fax: (801) 531-9850
www: www.vcbo.com

ARCHITECTURE
VALENTINER
CRANE
BRUNJES
ONYON

PROFESSIONAL STRUCTURAL ENGINEER — Jeremy A. Achter — No. 353467 — 10.2.12 — STATE OF UTAH

DFCM CODE COMPLIANCE STAMP

ENGINEERS — structural consultants — 1556 W. Park Dr. Ogden, Utah 84404 — ph: 801.782.6006 fx: 801.782.4656

# Student Activity Center
## Stromberg Addition - BID SET
Weber State University
3750 Harrison Blvd. Ogden, UT 84408

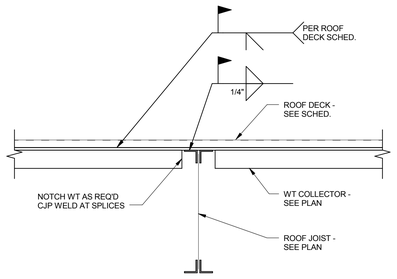
| Rev # | Date | Description |
|---|---|---|

Job # 12475
CAD File
Drawn BLP Checked JLA
Date 10.03.2012
Owner # DFCM #12031810

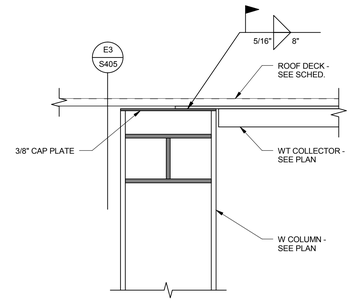
DETAILS

S404

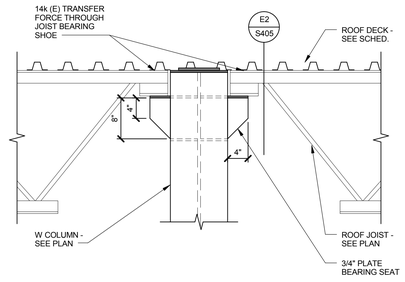
10/2/2012 6:37:47 PM



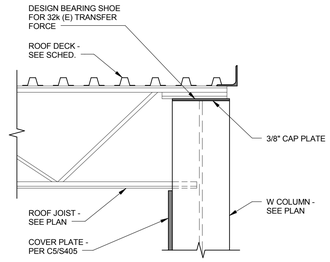

DETAIL
SCALE : NONE
E1 / S405



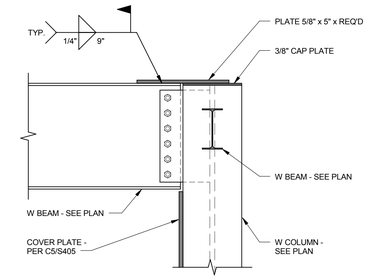

DETAIL
SCALE : NONE
E2 / S405



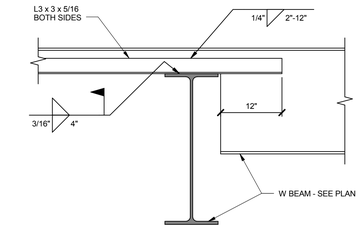

DETAIL
SCALE : NONE
E3 / S405



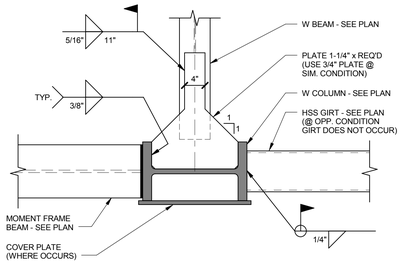

DETAIL
SCALE : NONE
E4 / S405



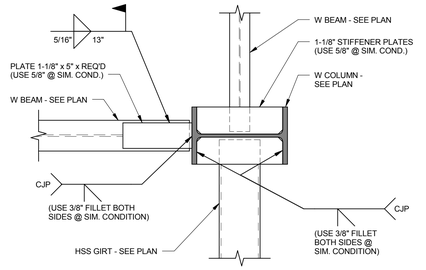

DETAIL
SCALE : NONE
E5 / S405



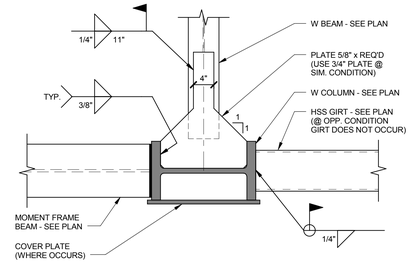

DETAIL
SCALE : NONE
D2 / S405



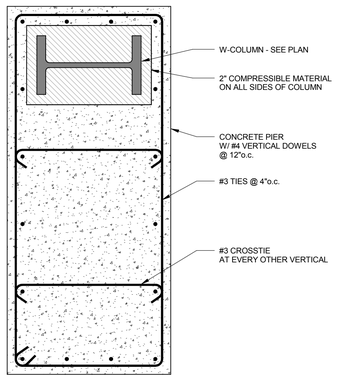

DETAIL
SCALE : NONE
D3 / S405



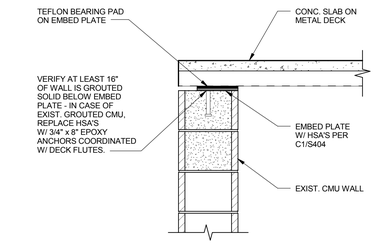

DETAIL
SCALE : NONE
D4 / S405



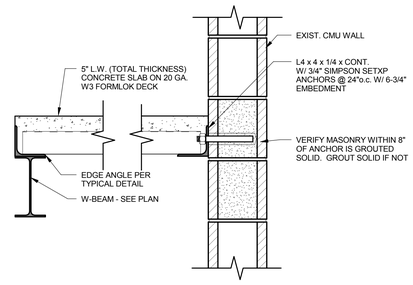

DETAIL
SCALE : NONE
D5 / S405



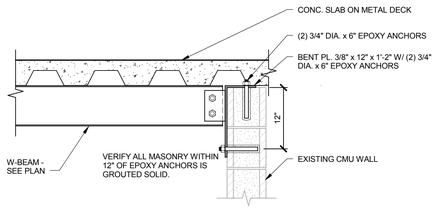

DETAIL
SCALE : NONE
C1 / S405



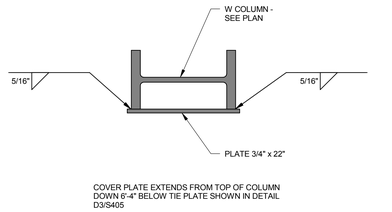

DETAIL
SCALE : NONE
C2 / S405




DETAIL
SCALE : NONE
C3 / S405

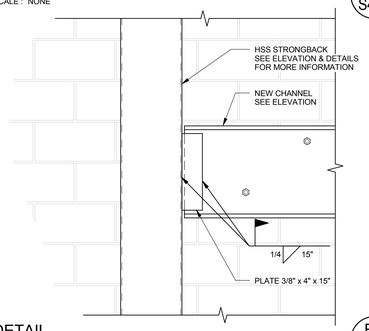



DETAIL
SCALE : NONE
C4 / S405

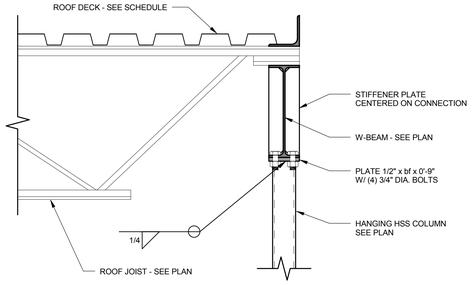



COVER PLATE EXTENDS FROM TOP OF COLUMN
DOWN 6'-4" BELOW TIE PLATE SHOWN IN DETAIL
D3/S405

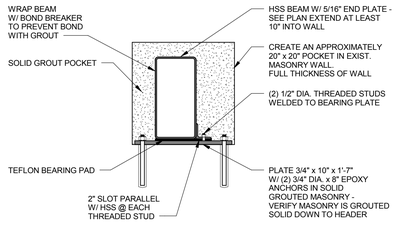
DETAIL
SCALE : NONE
C5 / S405



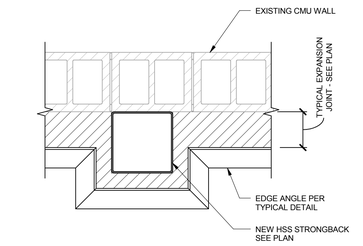

DETAIL
SCALE : NONE
B1 / S405



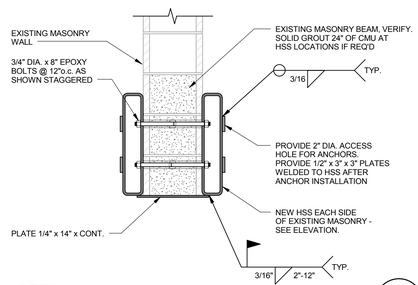

DETAIL
SCALE : NONE
B2 / S405



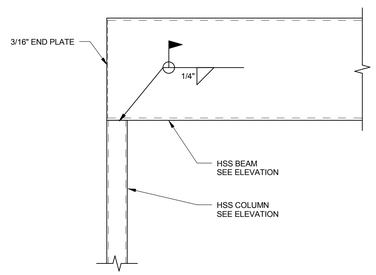

DETAIL
SCALE : NONE
B3 / S405



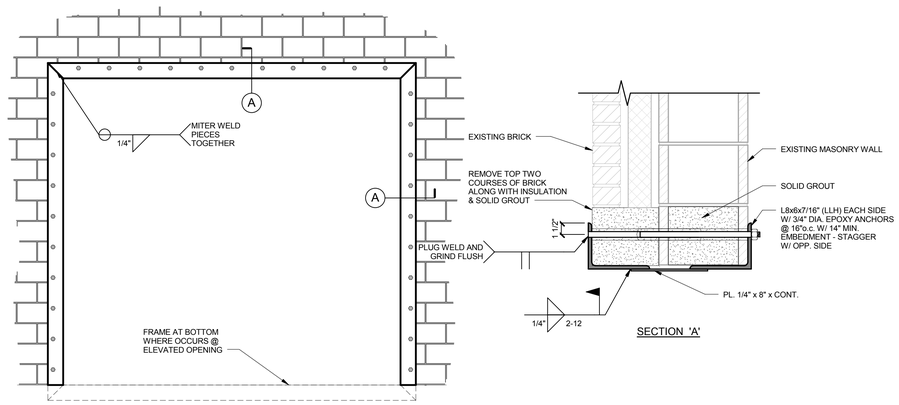

DETAIL
SCALE : NONE
A1 / S405




DETAIL
SCALE : NONE
A2 / S405




DETAIL
SCALE : NONE
A3 / S405




SECTION 'A'

TYP. NEW OPENING IN EXISTING MASONRY WALL
SCALE : NONE
A4 / S405

VCBO
ARCHITECTURE
VALENTINER
CRANE
BRUNJES
ONYON

VCBO ARCHITECTURE
524 SOUTH 600 EAST
SALT LAKE CITY, UT 84102
Phone: (801) 575-8800
Fax: (801) 531-9850
www: www.vcbo.com

PROFESSIONAL STRUCTURAL ENGINEER
Jeremy A. Achter
No. 353467
10.2.12
STATE OF UTAH

DFCM CODE COMPLIANCE STAMP

ARW ENGINEERS
structural consultants
15584 W. Park Dr. Sigrist | Utah 84404
ph: 801.782.6008 fx: 801.782.4656

# Student Activity Center
## Stromberg Addition - BID SET
Weber State University
3750 Harrison Blvd. Ogden, UT 84408

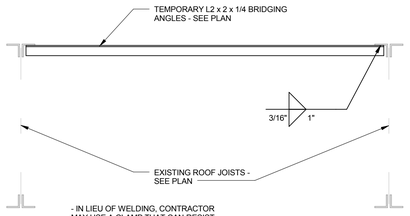
| Rev # | Date | Description |
|---|---|---|

Job # 12475
CAD File
Drawn BLP Checked JLA
Date 10.03.2012
Owner # DFCM #12031810

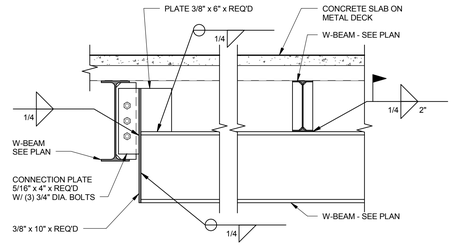
DETAILS

S405

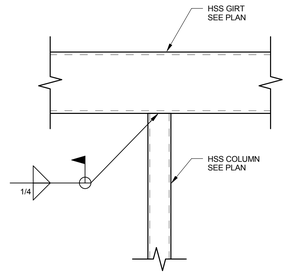
10/2/2012 6:37:46 PM



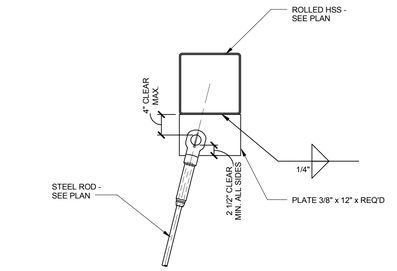

DETAIL — SCALE : NONE — E2 / S406



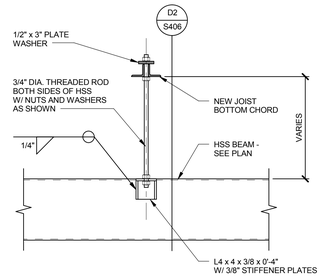

DETAIL — SCALE : NONE — E3 / S406



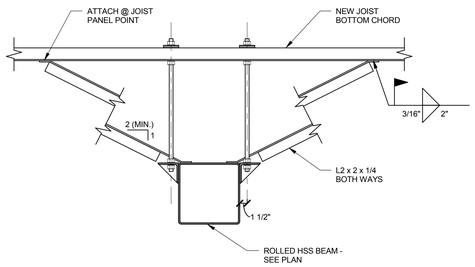

DETAIL — SCALE : NONE — E4 / S406



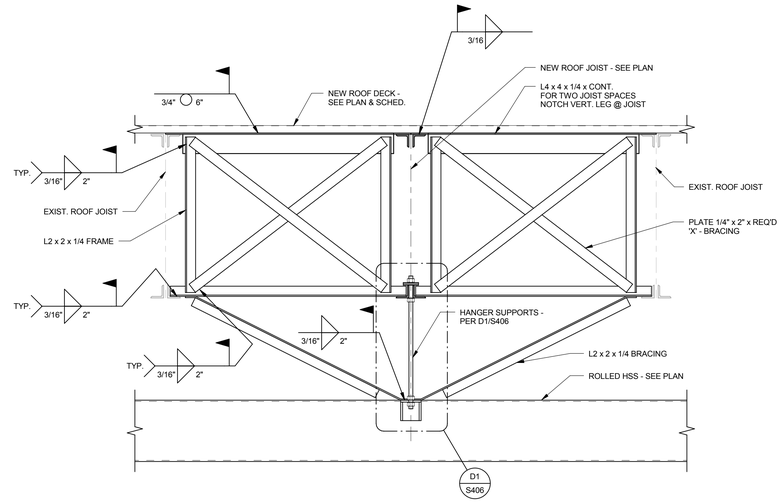

TYPICAL TRACK CORNER HANGER DETAIL — SCALE : NONE — E5 / S406



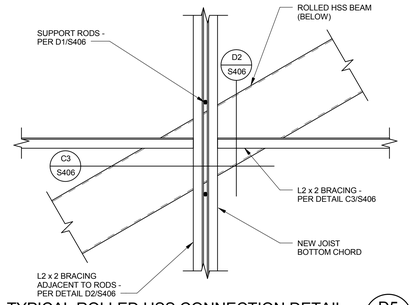

TYPICAL ROLLED HSS CONNECTION DETAIL — SCALE : NONE — D1 / S406




TYPICAL ROLLED HSS CONNECTION DETAIL — SCALE : NONE — D2 / S406




TYPICAL ROLLED HSS CONNECTION DETAIL — SCALE : NONE — C3 / S406



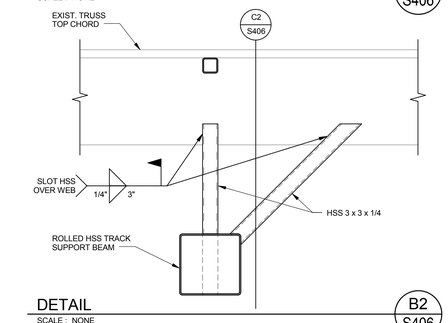

TYPICAL ROLLED HSS CONNECTION DETAIL — SCALE : NONE — D5 / S406



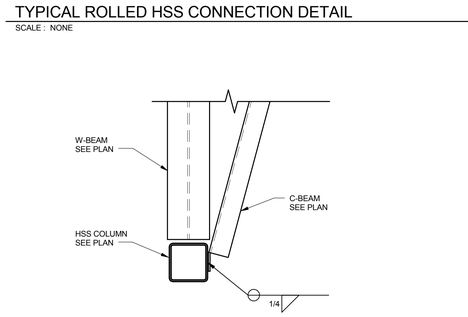

DETAIL — SCALE : NONE — B1 / S406



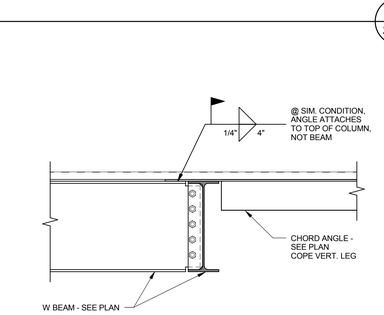

DETAIL — SCALE : NONE — C2 / S406



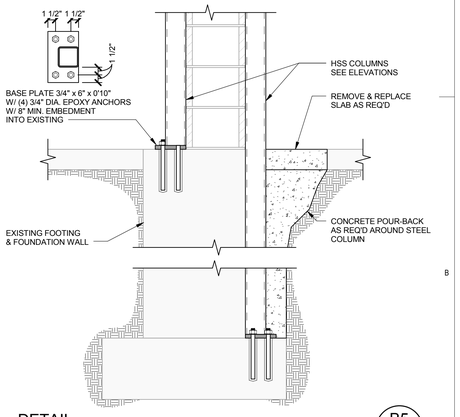

DETAIL — SCALE : NONE — B2 / S406



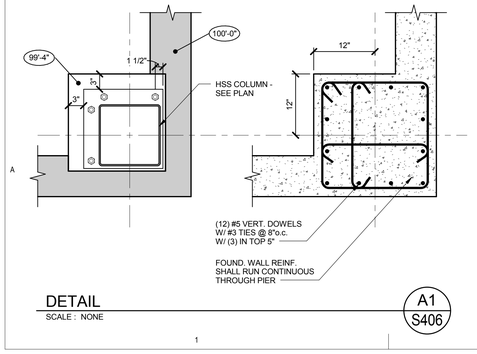

DETAIL — SCALE : NONE — B3 / S406



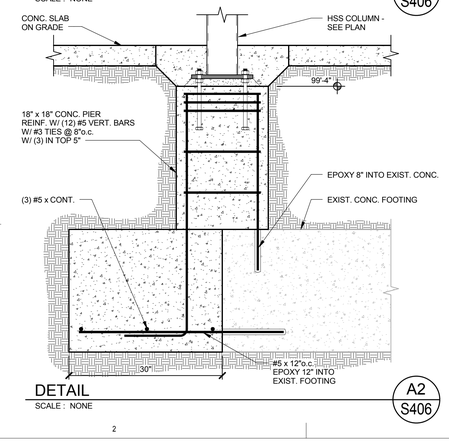

DETAIL — SCALE : NONE — B4 / S406



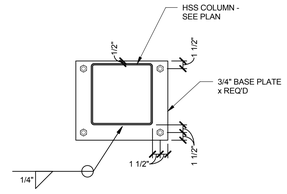

DETAIL — SCALE : NONE — B5 / S406



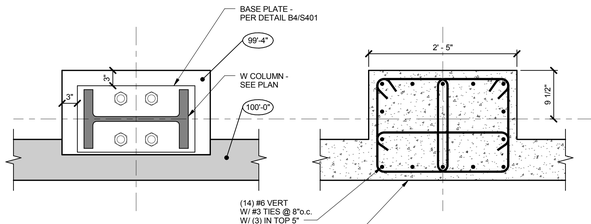

DETAIL — SCALE : NONE — A1 / S406




DETAIL — SCALE : NONE — A2 / S406




DETAIL — SCALE : NONE — A3 / S406




DETAIL — SCALE : NONE — A4 / S406

10/2/2012 6:37:44 PM

VCBO
ARCHITECTURE
VALENTINER
CRANE
BRUNJES
ONYON

PROFESSIONAL STRUCTURAL ENGINEER
Jeremy A. Achter
No. 353467
10.2.12
STATE OF UTAH

VCBO ARCHITECTURE
524 SOUTH 600 EAST
SALT LAKE CITY, UT 84102
Phone: (801) 575-8800
Fax: (801) 531-9850
www: www.vcbo.com

DFCM CODE COMPLIANCE STAMP

ENGINEERS
structural consultants
1594 W. Park Dr. Ogden, Utah 84404
ph: 801.782.6006 fx: 801.782.4656

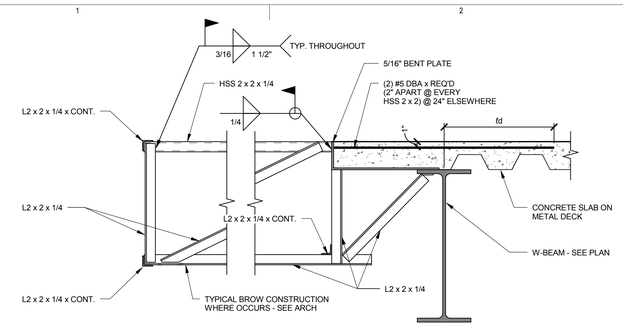
# Student Activity Center
## Stromberg Addition - BID SET
Weber State University
3750 Harrison Blvd. Ogden, UT 84408

| Rev # | Date | Description |
|---|---|---|

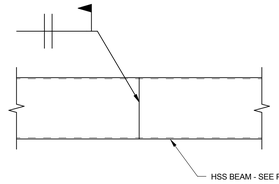
Job # 12475
CAD File
Drawn BLP Checked JLA
Date 10.03.2012
Owner # DFCM #12031810

DETAILS

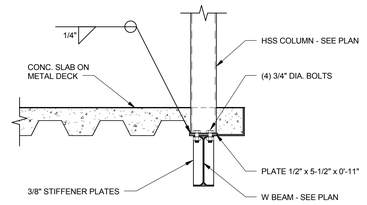
S406



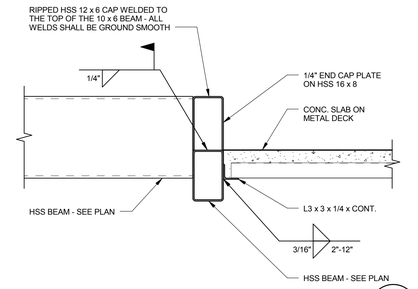

DETAIL
SCALE : NONE
E1
S407



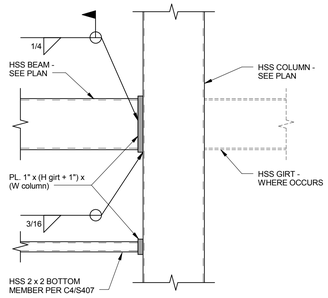

DETAIL
SCALE : NONE
E3
S407



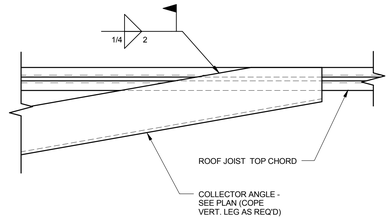

DETAIL
SCALE : NONE
E4
S407



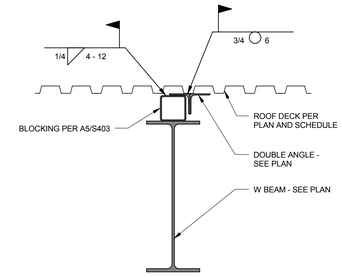

DETAIL
SCALE : NONE
E5
S407



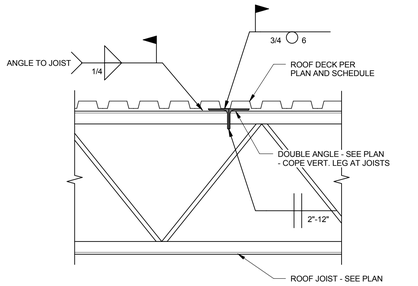

DETAIL
SCALE : NONE
D1
S407



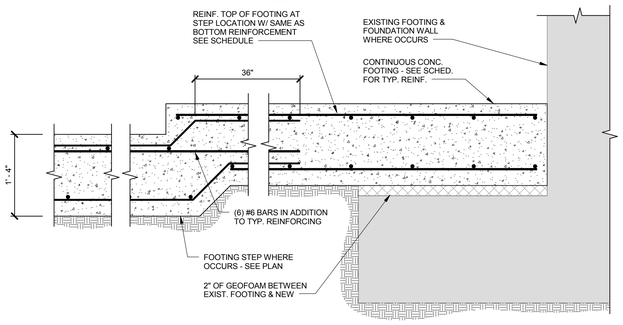

DETAIL
SCALE : NONE
D3
S407



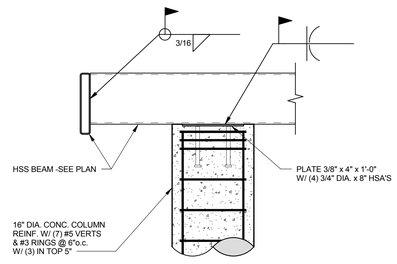

DETAIL
SCALE : NONE
D4
S407



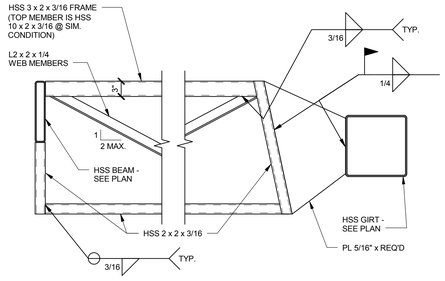

DETAIL
SCALE : NONE
D5
S407



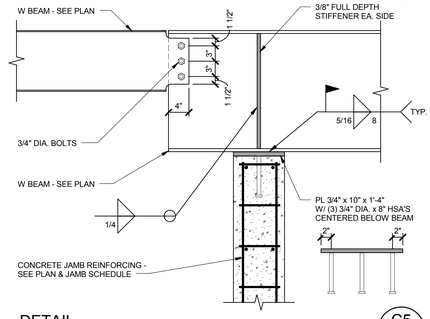

DETAIL
SCALE : NONE
C1
S407



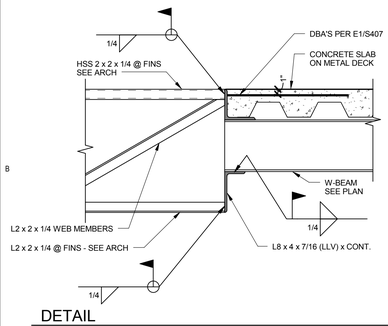

DETAIL
SCALE : NONE
C3
S407



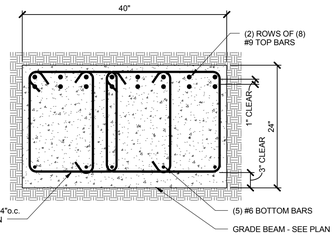

DETAIL
SCALE : NONE
C4
S407



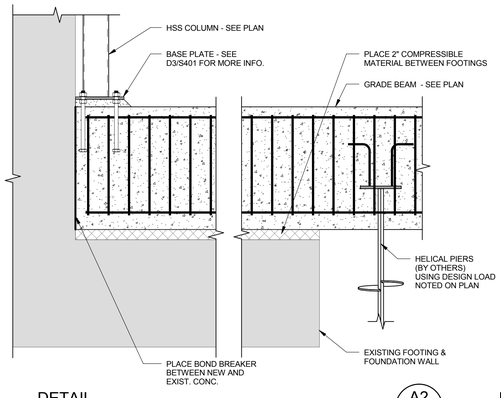

DETAIL
SCALE : NONE
C5
S407



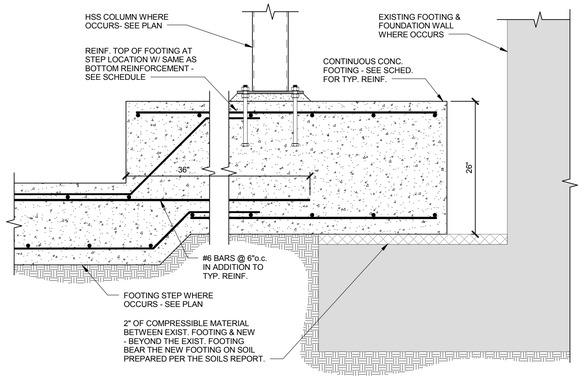

DETAIL
SCALE : NONE
B1
S407



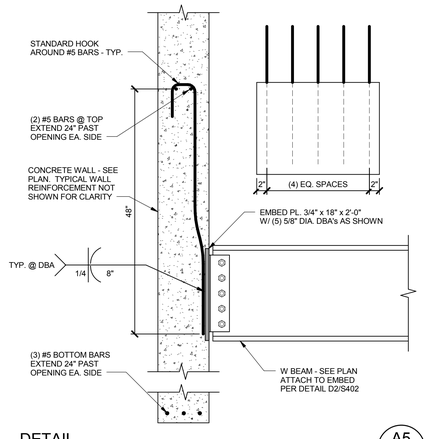

DETAIL
SCALE : NONE
A1
S407




DETAIL
SCALE : NONE
A2
S407




DETAIL
SCALE : NONE
A3
S407




DETAIL
SCALE : NONE
A5
S407

VCBO
ARCHITECTURE
VALENTINER
CRANE
BRUNJES
ONYON

PROFESSIONAL STRUCTURAL ENGINEER
Jeremy D. Achter
No. 353467
10.2.12
STATE OF UTAH

VCBO ARCHITECTURE
524 SOUTH 600 EAST
SALT LAKE CITY, UT 84102
Phone: (801) 575-8800
Fax: (801) 531-9850
WWW: www.vcbo.com

DFCM CODE COMPLIANCE STAMP

ARW ENGINEERS
structural consultants
1594 W. Park Dr. Ogden, Utah 84404
ph: 801.782.6006 fx: 801.782.4656

# Student Activity Center
## Stromberg Addition - BID SET
Weber State University
3750 Harrison Blvd. Ogden, UT 84408

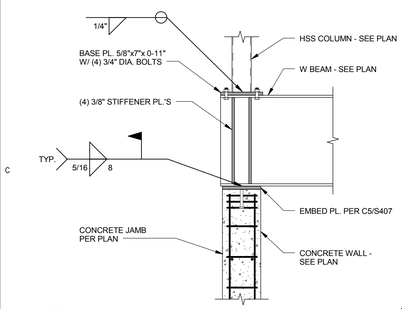
| Rev # | Date | Description |
|---|---|---|

Job # 12475
CAD File
Drawn BLP Checked JLA
Date 10.03.2012
Owner # DFCM #12031810

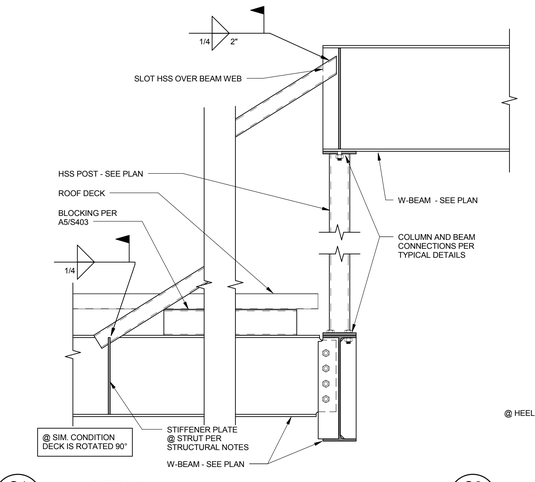
DETAILS

S407

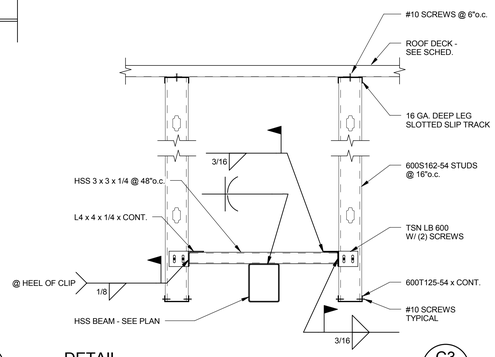
10/2/2012 6:37:42 PM



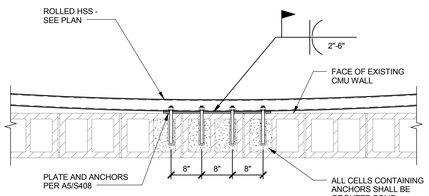

DETAIL C1 / S408
SCALE : NONE



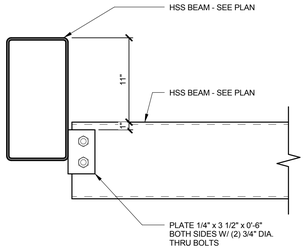

DETAIL C2 / S408
SCALE : NONE



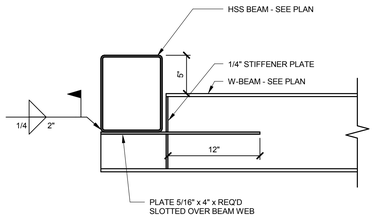

DETAIL C3 / S408
SCALE : NONE



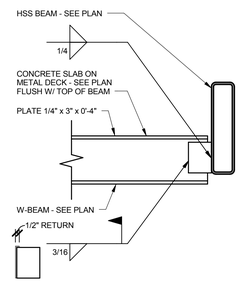

DETAIL B1 / S408
SCALE : NONE



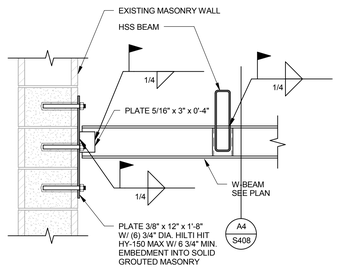

DETAIL B2 / S408
SCALE : NONE



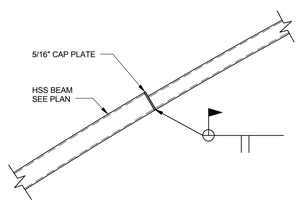

DETAIL B3 / S408
SCALE : NONE



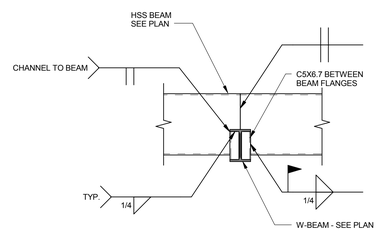

DETAIL A1 / S408
SCALE : NONE



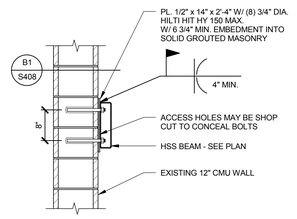

DETAIL A2 / S408
SCALE : NONE




DETAIL A3 / S408
SCALE : NONE




DETAIL A4 / S408
SCALE : NONE




DETAIL A5 / S408
SCALE : NONE

10/2/2012 6:37:40 PM

VCBO
ARCHITECTURE
VALENTINER
CRANE
BRUNJES
ONYON

PROFESSIONAL STRUCTURAL ENGINEER
Jeremy A. Achter
No. 353467
10.2.12
STATE OF UTAH

VCBO ARCHITECTURE
524 SOUTH 600 EAST
SALT LAKE CITY, UT 84102
Phone: (801) 575-8800
Fax: (801) 531-9850
WWW: www.vcbo.com

DFCM CODE COMPLIANCE STAMP

A R W ENGINEERS
structural consultants
1556 W. Park Dr. Ogden, Utah 84404
ph: 801.782.6008 fx: 801.782.4656

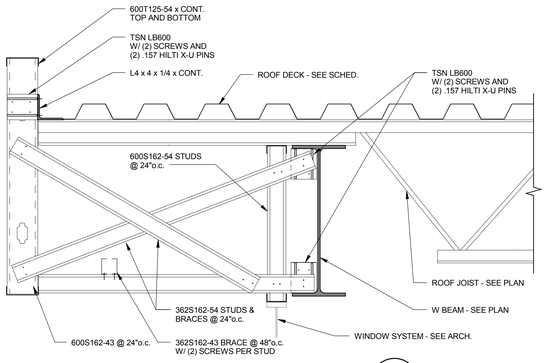
# Student Activity Center
## Stromberg Addition - BID SET
Weber State University
3750 Harrison Blvd. Ogden, UT 84408

| Rev # | Date | Description |
|---|---|---|

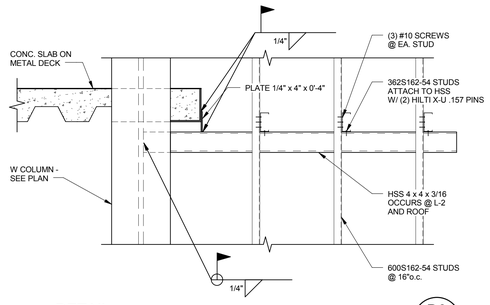
Job # 12475
CAD File
Drawn BLP Checked JLA
Date 10.03.2012
Owner # DFCM #12031810

DETAILS

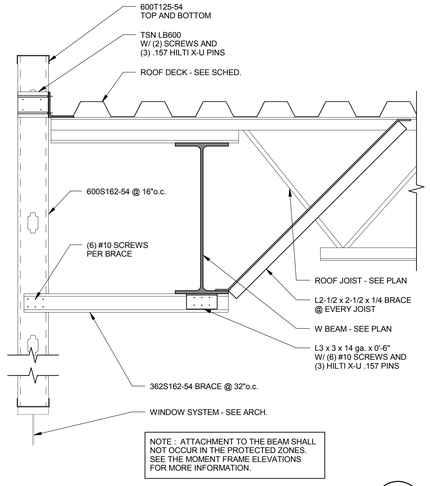
S408




DETAIL
SCALE : NONE
D1
S409

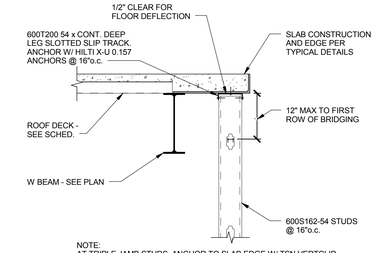



DETAIL
SCALE : NONE
D3
S409



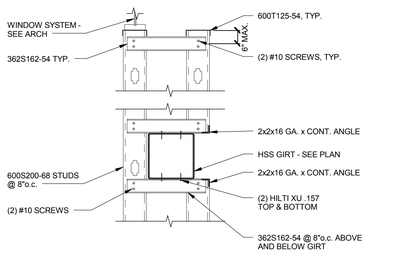

NOTE : ATTACHMENT TO THE BEAM SHALL NOT OCCUR IN THE PROTECTED ZONES. SEE THE MOMENT FRAME ELEVATIONS FOR MORE INFORMATION.

DETAIL
SCALE : NONE
D4
S409

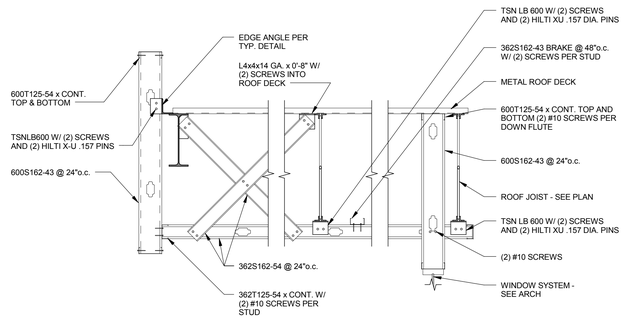



NOTE:
AT TRIPLE JAMB STUDS, ANCHOR TO SLAB EDGE W/ TSN VERTCLIP SL600 W/ (2) SCREWS @ 2 OF 3 STUDS. ATTACH TO BENT PL W/ (2) HILTI X-U 0.157 ANCHORS.

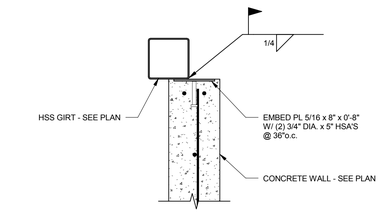
DETAIL
SCALE : NONE
D5
S409



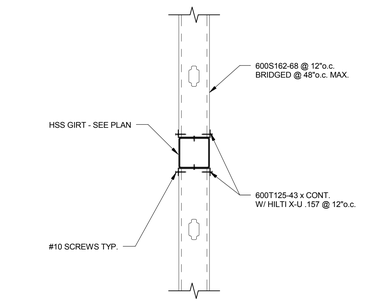

DETAIL
SCALE : NONE
C1
S409



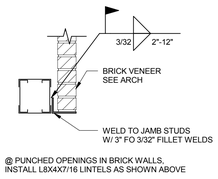

DETAIL
SCALE : NONE
C2
S409



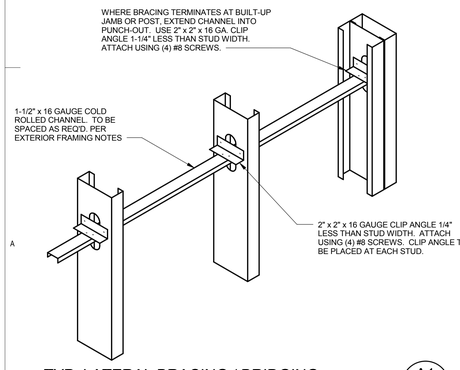

DETAIL
SCALE : NONE
C4
S409



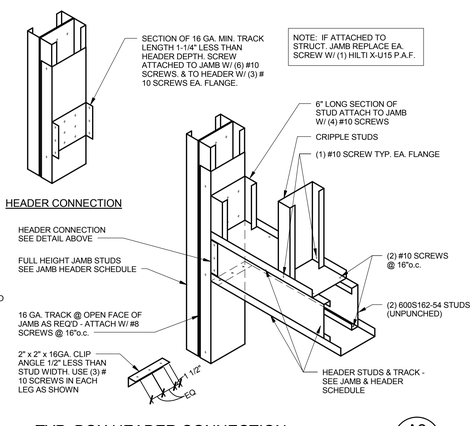

DETAIL
SCALE : NONE
C5
S409




@ PUNCHED OPENINGS IN BRICK WALLS, INSTALL L8X4X7/16 LINTELS AS SHOWN ABOVE

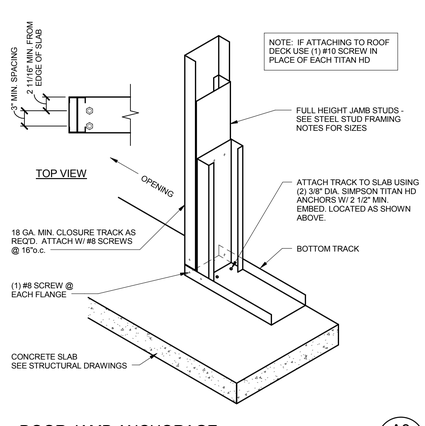



TYP. LATERAL BRACING / BRIDGING
SCALE : NONE
A1
S409

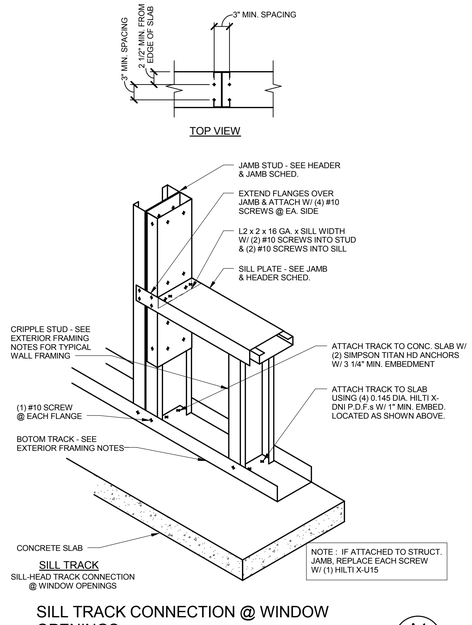



HEADER CONNECTION

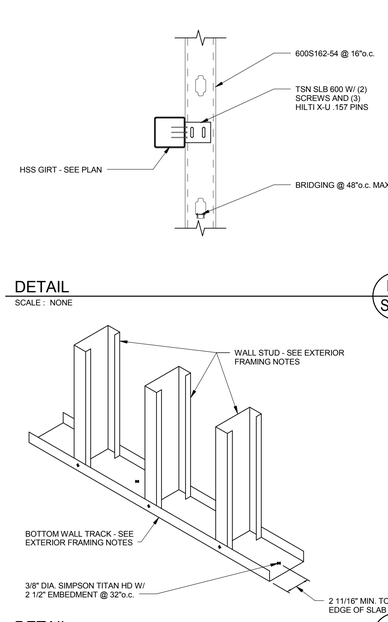
TYP. BOX HEADER CONNECTION
SCALE : NONE
A2
S409




DOOR JAMB ANCHORAGE
SCALE : NONE
A3
S409




SILL TRACK CONNECTION @ WINDOW OPENINGS
SCALE : NONE
A4
S409




DETAIL
SCALE : NONE
B5
S409

DETAIL
SCALE : NONE
A5
S409

VCBO ARCHITECTURE
524 SOUTH 600 EAST
SALT LAKE CITY, UT 84102
Phone: (801) 575-8800
Fax: (801) 531-9850
WWW: www.vcbo.com

DFCM CODE COMPLIANCE STAMP

ENGINEERS
structural consultants
1594 W. Park Dr. Sandy, Utah 84404
ph: 801.782.6008 fx: 801.782.4656

# Student Activity Center
## Stromberg Addition - BID SET
Weber State University
3750 Harrison Blvd. Ogden, UT 84408

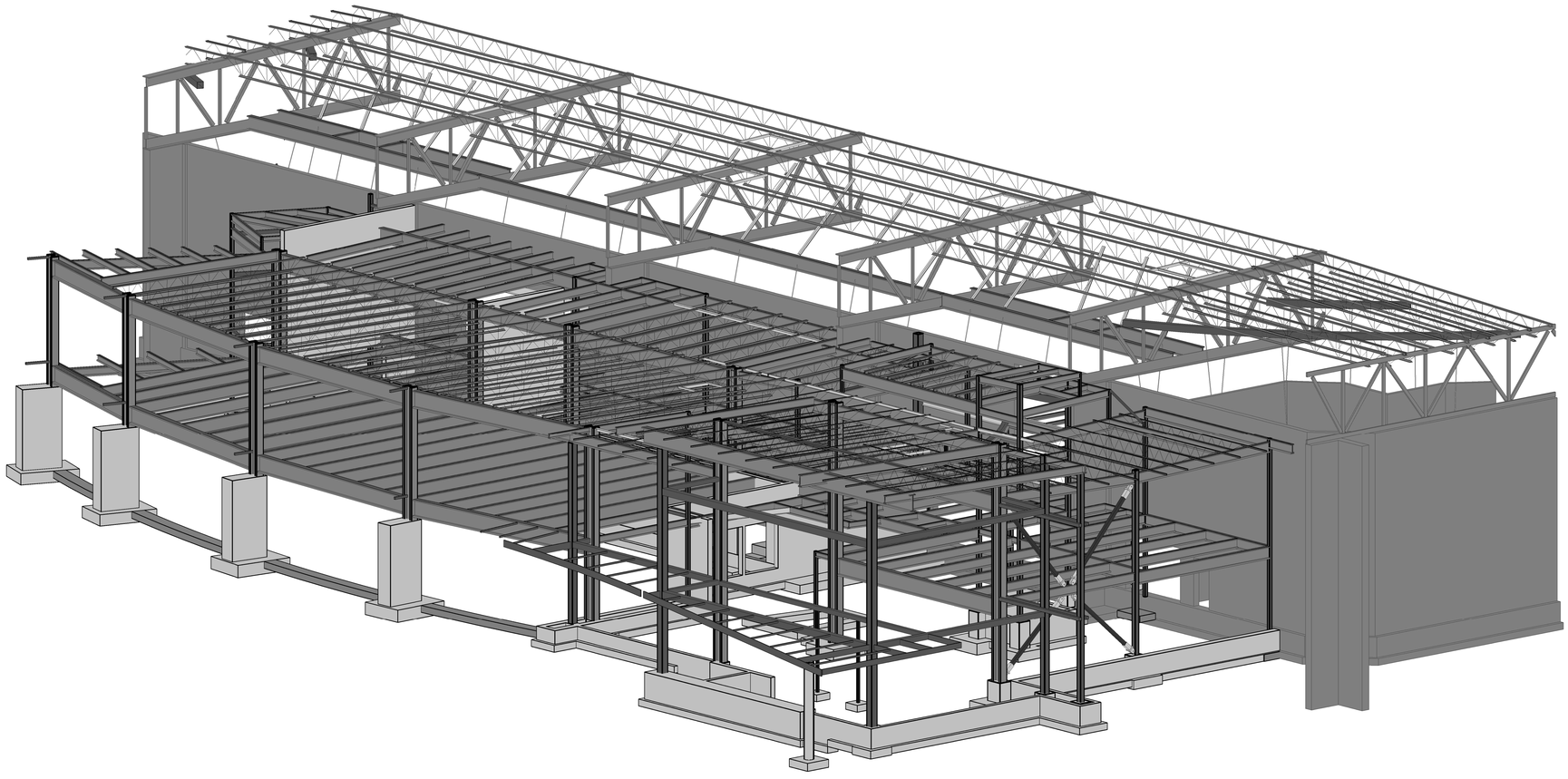
| Rev # | Date | Description |
|---|---|---|

Job # 12475
CAD File
Drawn BLP Checked JLA
Date 10.03.2012
Owner # DFCM #12031810

METAL STUD FRAMING DETAILS

S409

10/2/2012 6:37:39 PM



NOTE: THIS VIEW REPRESENTS A SCHEMATIC RENDERING ONLY AND IS NOT INTENDED TO CONVEY CONSTRUCTION INFORMATION. ALL CONSTRUCTION SHALL COMPLY WITH SPECIFIC NOTES AND DETAILS WITHIN THE STRUCTURAL DRAWINGS.


VCBO
ARCHITECTURE
VALENTINER
CRANE
BRUNJES
ONYON

PROFESSIONAL STRUCTURAL ENGINEER
Jeremy A. Achter
No. 353467
10.2.12
STATE OF UTAH

VCBO ARCHITECTURE
524 SOUTH 600 EAST
SALT LAKE CITY, UT 84102
Phone: (801) 575-8800
Fax: (801) 531-9850
WWW: www.vcbo.com


DFCM CODE COMPLIANCE STAMP


ARW ENGINEERS
structural consultants
1599 W. Park Dr. Ogden, Utah 84404
ph: 801.782.6008 fx: 801.782.4656


# Student Activity Center
## Stromberg Addition - BID SET
Weber State University
3750 Harrison Blvd. Ogden, UT 84408

| Rev # | Date | Description |
|---|---|---|

Job # 12475
CAD File
Drawn BLP Checked JLA
Date 10.03.2012
Owner # DFCM #12031810

SCHEMATIC REFERENCE

S901

10/2/2012 6:37:38 PM

Copyright (C) 2012 by Colvin Engineering Associates, Inc. Salt Lake City, Utah. All rights reserved. Unauthorized copying and/or use is illegal and subject to prosecution.

## DRAWING INDEX


| # | SHEET NAME |
|---|---|
| M001 | MECHANICAL LEGEND, SYMBOLS & ABBREVIATIONS |
| M102D | SECOND FLOOR OVERALL MECHANICAL DEMOLITION PLAN |
| M121.1D | SECOND FLOOR AREA A & MECHANICAL ROOM MECHANICAL DEMOLITION PLAN |
| M122.1D | SECOND FLOOR AREA B MECHANICAL & PLUMBING DEMOLITION PLAN |
| F101 | FIRST FLOOR FIRE PROTECTION PLAN |
| F102 | SECOND FLOOR FIRE PROTECTION PLAN |
| M101 | FIRST FLOOR OVERALL MECHANICAL PLAN |
| M102 | SECOND FLOOR OVERALL MECHANICAL PLAN |
| M104 | ROOF OVERALL MECHANICAL AND PLUMBING PLAN |
| M105 | FIRST FLOOR OVERALL MECHANICAL PIPING PLAN |
| M106 | SECOND FLOOR OVERALL MECHANICAL PIPING PLAN |
| M113.1 | FIRST FLOOR AREA C MECHANICAL PLAN |
| M121.1 | SECOND FLOOR AREA A MECHANICAL PLAN |
| M122.1 | SECOND FLOOR AREA B MECHANICAL PLAN |
| M123.1 | SECOND FLOOR AREA C MECHANICAL PLAN |
| M141.1 | ROOF AREA A MECHANICAL AND PLUMBING ROOF PLAN |
| M142.1 | ROOF AREA B MECHANICAL AND PLUMBING ROOF PLAN |
| M143.1 | ROOF AREA C MECHANICAL AND PLUMBING ROOF PLAN |
| M117.1 | FIRST FLOOR AREA C MECHANICAL PIPING PLAN |
| M125.1 | SECOND FLOOR AREA A MECHANICAL PIPING PLAN |
| M126.1 | SECOND FLOOR AREA B MECHANICAL PIPING PLAN |
| M127.1 | SECOND FLOOR AREA C MECHANICAL PIPING PLAN |
| M201 | SCHEMATICS |
| M202 | SCHEMATICS |
| M203 | SCHEMATICS |
| M204 | SCHEMATICS |
| M205 | SCHEMATICS |
| M401 | ENLARGED MECHANICAL PLANS |
| M501 | MECHANICAL DETAILS |
| M502 | MECHANICAL DETAILS |
| M503 | MECHANICAL DETAILS |
| M601 | MECHANICAL SCHEDULES |
| M602 | MECHANICAL SCHEDULES |
| P101 | FIRST FLOOR OVERALL PLUMBING PLAN |
| P102 | SECOND FLOOR OVERALL PLUMBING PLAN |
| P111.1 | FIRST FLOOR AREA A PLUMBING PLAN |
| P112.1 | FIRST FLOOR AREA B PLUMBING PLAN |
| P113.1 | FIRST FLOOR AREA C PLUMBING PLAN |
| P123.1 | SECOND FLOOR AREA C PLUMBING PLAN |
| P401 | ENLARGED PLUMBING PLANS |
| P501 | PLUMBING DETAILS |
| P601 | PLUMBING SCHEDULES |
| Z113.1 | FIRST FLOOR AREA C ZONING PLAN |
| Z122.1 | SECOND FLOOR AREA B ZONING PLAN |
| Z123.1 | SECOND FLOOR AREA C ZONING PLAN |

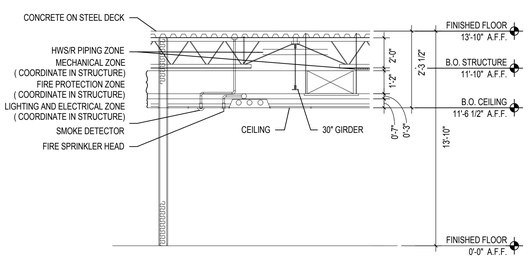

## ABBREVIATIONS

| | | | |
|---|---|---|---|
| Ø | ROUND OR DIAMETER | LWT | LEAVING WATER TEMPERATURE |
| AD | ACCESS DOOR | MAX | MAXIMUM |
| AF | AIRFOIL | MBH | THOUSAND BRITISH THERMAL UNITS/HOUR |
| AFF | ABOVE FINISHED FLOOR | MECH | MECHANICAL |
| ALT | ALTERNATE | MIN | MINIMUM |
| BI | BACKWARD INCLINED | NC | NOISE CRITERIA OR NORMALLY CLOSED |
| BOD | BOTTOM OF DUCT | NIC | NOT IN CONTRACT |
| BOP | BOTTOM OF PIPE | NO | NUMBER |
| BTUH | BRITISH THERMAL UNITS PER HOUR | NOM | NOMINAL |
| CAP | CAPACITY | NTS | NOT TO SCALE |
| CFM | CUBIC FEET PER MINUTE | OA | OUTSIDE AIR |
| CV | CONSTANT VOLUME | OBD | OPPOSED BLADE DAMPER |
| DB | DRY BULB | OD | OVERFLOW DRAIN |
| DN | DOWN | OFCI | OWNER FURNISHED, CONTRACTOR INSTALLED |
| DIA | DIAMETER | OFOI | OWNER FURNISHED, OWNER INSTALLED |
| DCW | DOMESTIC COLD WATER | PD | PRESSURE DROP |
| DHW | DOMESTIC HOT WATER | POC | POINT OF CONNECTION |
| DHWC | DOMESTIC HOT WATER CIRC. | PRV | PRESSURE REDUCING VALVE |
| DSN | DOWN SPOUT NOZZLE | PSI | POUNDS PER SQUARE INCH |
| DW | DISHWASHER | PSIG | POUNDS PER SQUARE INCH GAUGE |
| (E) | EXISTING | RA | RETURN AIR |
| EA | EXHAUST AIR | RAD | RADIUS |
| EAT | ENTERING AIR TEMPERATURE | RD | ROOF DRAIN |
| EFF | EFFICIENCY | RPBP | REDUCED PRESSURE BACKFLOW PREVENTER |
| ELEV | ELEVATION | SA | SUPPLY AIR OR SHOCK ARRESTOR |
| ENCL | ENCLOSURE | SEN | SENSIBLE |
| ESP | EXTERNAL STATIC PRESSURE | SIM | SIMILAR |
| ET | EXPANSION TANK | SL | SEA LEVEL |
| EWC | ELECTRIC WATER COOLER | SP | STATIC PRESSURE |
| EWT | ENTERING WATER TEMPERATURE | SF | SQUARE FEET |
| FCO | FLOOR CLEANOUT | SS | SERVICE SINK OR STAINLESS STEEL |
| FD | FLOOR DRAIN | TOD | TOP OF DUCT |
| FO | FLAT OVAL | TSP | TOTAL STATIC PRESSURE |
| FPM | FEET PER MINUTE | TYP. | TYPICAL |
| FS | FLOOR SINK | U | URINAL |
| FT | FEET | V | VENT |
| FV | FACE VELOCITY | VAV | VARIABLE AIR VOLUME |
| GA | GAUGE | VD | VOLUME DAMPER |
| GAL | GALLON | VFD | VARIABLE FREQUENCY DRIVE |
| GD | GARAGE DRAIN | VOL | VOLUME |
| GPM | GALLONS PER MINUTE | VTR | VENT THROUGH ROOF |
| HP | HORSEPOWER | W/ | WITH |
| HR | HOUR | W/O | WITHOUT |
| HT | HEIGHT | WB | WET BULB |
| IN | INCH | WC | WATER CLOSET |
| INWC | INCHES OF WATER COLUMN | MVD | MANUAL VOLUME DAMPER |
| INWG | INCHES OF WATER GAUGE | WCO | WALL CLEANOUT |
| L | LAVATORY OR LOUVER | WPD | WATER PRESSURE DROP |
| LAT | LEAVING AIR TEMPERATURE | WT | WEIGHT |
| LBS | POUNDS | | |

## MECHANICAL LEGEND

NOTE: ALL ITEMS MAY NOT APPEAR ON DRAWINGS

| | | | |
|---|---|---|---|
| GATE VALVE | | CHILLED WATER SUPPLY | CHS |
| OS & Y PATTERN GATE VALVE | | CHILLED WATER RETURN | CHR |
| BALL VALVE | | CONDENSER WATER SUPPLY | CS |
| BUTTERFLY VALVE | | CONDENSER WATER RETURN | CR |
| MOTORIZED VALVE OPERATOR | M | GROUND LOOP SUPPLY | GLS |
| GAS COCK | | GROUND LOOP RETURN | GLR |
| PLUG VALVE | | HEATING WATER SUPPLY | HWS |
| CHECK VALVE (SWING OR LIFT AS REQ'D) | | HEATING WATER RETURN | HWR |
| SOLENOID VALVE | | RADIANT FLOOR SUPPLY | RFS |
| AUTOMATIC CONTROL VALVE (2-WAY) | | RADIANT FLOOR RETURN | RFR |
| AUTOMATIC CONTROL VALVE (3-WAY) | | SNOW MELT SUPPLY | SMS |
| PRESSURE REDUCING VALVE | | SNOW MELT RETURN | SMR |
| P & T RELIEF VALVE | | STEAM | S |
| AIR VENT (AUTOMATIC) | | STEAM CONDENSATE RETURN | SCR |
| CURB COCK | | WATER TREATMENT | WT |
| THERMAL EXPANSION VALVE | | FUEL OIL SUPPLY | FOS |
| STRAINER | | FUEL OIL RETURN | FOR |
| CALIBRATED BALANCE VALVE | | REFRIGERANT LIQUID | RL |
| VENTURI FLOW METER | | REFRIGERANT SUCTION | RS |
| REDUCER | | HOT GAS | HG |
| PET COCK OR GAUGE COCK | | HOT GAS BYPASS | HGBP |
| PRESSURE GAUGE W/GAUGE COCK | | VACUUM | VAC |
| THERMOMETER | | MEDICAL AIR | MA |
| TEMPERATURE & PRESSURE TEST PLUG | | OXYGEN | O2 |
| IN-LINE PUMP | | NITROUS OXIDE | N2O |
| FLOW SWITCH | | NITROGEN | N |
| AQUASTAT | | HYDROGEN | H |
| TEMPERATURE SENSING WELL | | HELIUM | HE |
| HOSE BIBB OR SILLCOCK | | CARBON DIOXIDE | CO2 |
| YARD HYDRANT | | ARGON | AR |
| FLOOR DRAIN | | DUCT SIZE (IN), FIRST FIGURE IS SIDE SHOWN | 16/12 |
| FLOOR SINK | | BURIED OR UNDERFLOOR DUCT | |
| MANHOLE | | FLEXIBLE DUCT (HELICAL) | |
| WALL CLEANOUT | | SPIN-IN FITTING W/ MVD | MVD |
| FLOOR OR GRADE CLEANOUT | | FLEXIBLE DUCT CONNECTION | |
| GRADE CLEANOUT W/ CONCRETE PAD | | SUPPLY SLOT DIFFUSER | |
| VENT THROUGH ROOF | | SUPPLY DIFFUSER | |
| POST TYPE FDC CONNECTION | | RETURN GRILLE | |
| WALL TYPE FDC CONNECTION | | RADIAL SUPPLY DIFFUSERS | |
| FIRE HOSE CABINET | | RETURN AIR DUCT SECTION | |
| FIRE DEPT. HORN & LIGHT | | RETURN AIR DUCT UP | |
| EXPANSION JOINT | | RETURN AIR DUCT DOWN | |
| FLEXIBLE PIPE CONNECTION | | SUPPLY AIR DUCT SECTION | |
| REDUCED PRESSURE BACKFLOW PREVENTER | RPBP | SUPPLY AIR DUCT UP | |
| DIRECTION OF FLOW | | SUPPLY AIR DUCT DOWN | |
| ELBOW DOWN | | EXHAUST AIR DUCT SECTION | |
| ELBOW UP | | EXHAUST AIR DUCT UP | |
| PIPE CAP | | EXHAUST AIR DUCT DOWN | |
| TEE DOWN | | ACCESS PANEL | |
| UNION | | MANUAL VOLUME DAMPER | MVD |
| DOMESTIC COLD WATER | | GRAVITY BACKDRAFT DAMPER | GD |
| DOMESTIC HOT WATER | | MOTORIZED DAMPER | M |
| DOMESTIC HOT WATER CIRC. | | AIR FLOW STATION | F |
| TEMPERED WATER | T | FIRE DAMPER | FD |
| SANITARY (PLBG) VENT | | SMOKE DAMPER | SD |
| SANITARY SEWER ABOVE GRADE | | COMBINATION FIRE/SMOKE DAMPER | FSD |
| SANITARY SEWER BELOW GRADE | | DUCT TRANSITION | |
| GREASE WASTE ABOVE GRADE | GW | ELBOW W/ TURNING VANES | |
| GREASE WASTE BELOW GRADE | GW | TEE W/ 45° ENTRY | |
| DRAIN | D | WYE W/ 45° ENTRY | |
| ROOF DRAIN | RD | THERMOSTAT OR TEMP SENSOR | T |
| OVERFLOW DRAIN | OD | HUMIDISTAT OR HUMIDITY SENSOR | H |
| STORM DRAIN ABOVE GRADE | SD | CARBON MONOXIDE SENSOR | C |
| STORM DRAIN BELOW GRADE | SD | CARBON DIOXIDE SENSOR | C |
| FIRE SERVICE | F | FAN SWITCH | S |
| NATURAL GAS | G | POINT OF REMOVAL FROM EXISTING | |
| PROPANE | P | POINT OF CONNECTION TO EXISTING | |
| COMPRESSED AIR | CA | DETAIL TAG | DETAIL NO. / DRAWING NO. |
| INDUSTRIAL WATER (NON-POTABLE) | IW | KEYED NOTE | NOTE NO. |
| DEIONIZED WATER | DI | | SECTION NO. / DRAWING NO. |
| DEIONIZED WATER RETURN | DIR | SECTION CUT LINE | |
| HEAT TRACING | | | |




NOTE: EXTREMELY LIMITED SPACE IS AVAILABLE FOR TRADES TO INSTALL THEIR WORK. CAREFUL COORDINATION IS REQUIRED TO ASSURE THAT CROSS-OVER LINES ACTUALLY FIT IN ZONES ALLOTTED. ON OCCASION "FIRE PROTECTION ZONE" AND/OR "ELECTRICAL ZONE" MAY NEED TO TRANSITION UP INTO "STRUCTURAL ZONE" BETWEEN BEAMS AND GIRDERS. GENERAL CONTRACTOR SHALL COORDINATE WORK AND SCHEDULE OF EACH TRADE TO PREVENT UTILITY LINE CONFLICTS.

## VERTICAL SPACE ALLOCATION

SCALE: NONE


VCBO ARCHITECTURE
VALENTINER CRANE BRUNJES ONYON

VCBO ARCHITECTURE
524 SOUTH 600 EAST
SALT LAKE CITY, UT 84102
Phone: (801) 575-8800
Fax: (801) 531-9850
WWW: www.vcbo.com


DFCM CODE COMPLIANCE STAMP

# Student Activity Center
## Stromberg Addition - BID SET
Weber State University
3750 Harrison Blvd. Ogden, UT 84408

| Rev # | Date | Description |
|---|---|---|

Stephen G. Colvin — 7524 — 10/3/2012 — State of Utah

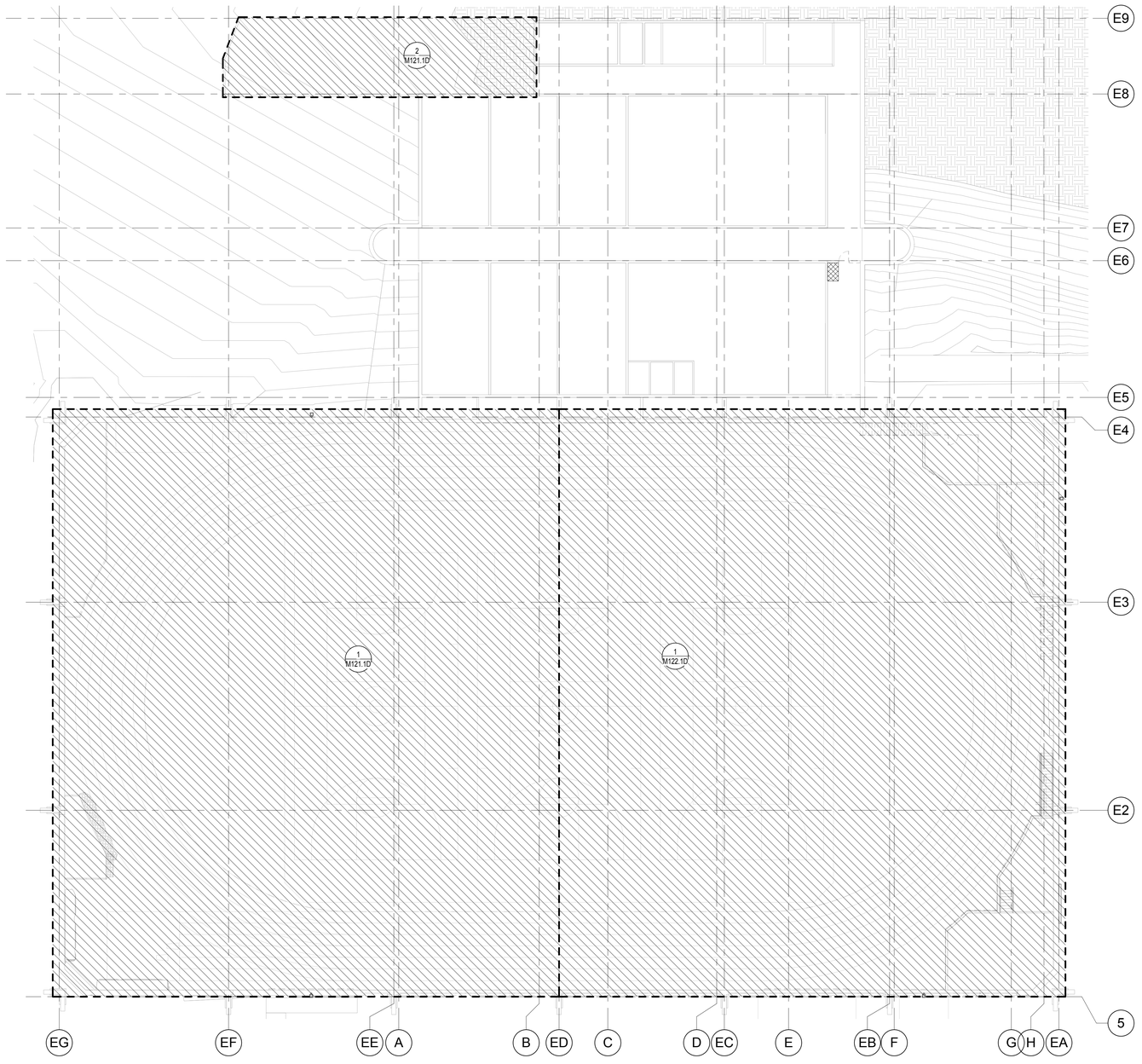

Colvin Engineering Associates, Inc.
244 West 300 North Suite 200
Salt Lake City, Utah 84103
Phone: (801) 322-2400 / Fax: (801) 322-2416


Job # 2012-033.00
CAD File
Drawn TCF Checked BRC
Date 10.03.2012
Owner # DFCM #12031810

MECHANICAL LEGEND, SYMBOLS & ABBREVIATIONS

M001

10/2/2012 3:59:56 PM




1 SECOND FLOOR MECHANICAL DEMOLITION PLAN

SCALE: 1/16" = 1'-0"

12' 0' 8' 16' 24' 32'

Copyright (C) 2012 by Colvin Engineering Associates, Inc. Salt Lake City, Utah. All rights reserved. Unauthorized copying and/or use is illegal and subject to prosecution.

10/2/2012 4:00:06 PM

VCBO

ARCHITECTURE
VALENTINER
CRANE
BRUNJES
ONYON

VCBO ARCHITECTURE
524 SOUTH 600 EAST
SALT LAKE CITY, UT 84102
Phone: (801) 575-8800
Fax: (801) 531-9850
WWW: www.vcbo.com

DFCM CODE COMPLIANCE STAMP

# Student Activity Center
## Stromberg Addition - BID SET
Weber State University
3750 Harrison Blvd. Ogden, UT 84408

| Rev # | Date | Description |
|---|---|---|

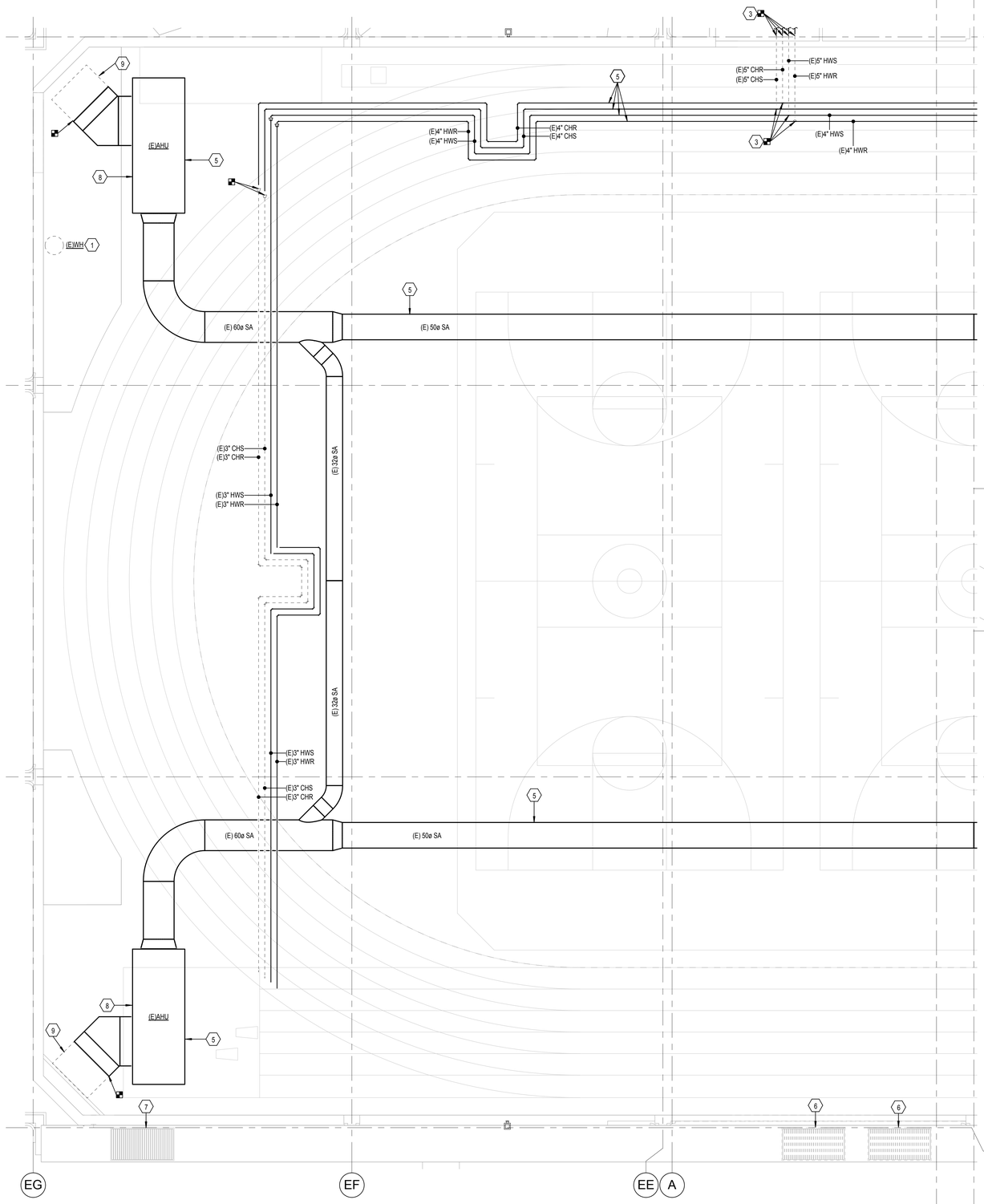
Stephen G. Colvin
187524
10/3/2012
REGISTERED PROFESSIONAL ENGINEER
State of Utah

Colvin Engineering Associates, Inc.
244 West 300 North Suite 200
Salt Lake City, Utah 84103
Phone: (801) 322-2400 / Fax: (801) 322-2416

Job # 2012-033.00
CAD File
Drawn TCF Checked BRC
Date 10.03.2012
Owner # DFCM #12031810

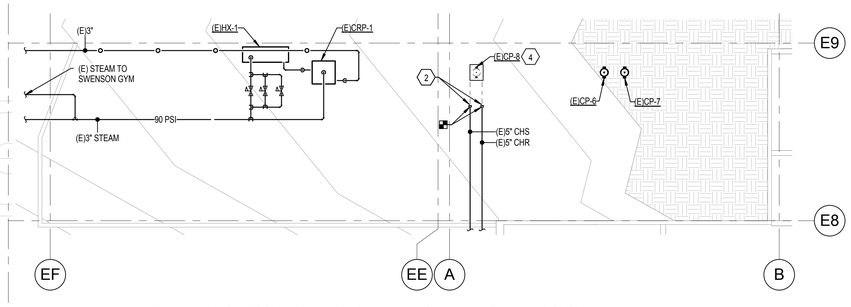
SECOND FLOOR
OVERALL MECHANICAL
DEMOLITION PLAN

M102D




## SECOND FLOOR AREA A MECHANICAL & PLUMBING DEMOLITION PLAN

1 SCALE: 1/8" = 1'-0"




## EXISTING SECOND FLOOR MECHANICAL ROOM DEMOLITION PLAN

2 SCALE: 1/8" = 1'-0"

## KEYED NOTES

1 REMOVE EXISTING WATER HEATER ABOVE EXISTING SPACE. CAP MAINS.
2 DISCONNECT CHILLED WATER PIPE AS SHOWN.
3 DISCONNECT EXISTING CHILLED SUPPLY AND RETURN, HOT SUPPLY AND RETURN, AND DOMESTIC COLD. SEE SHEET M125.1 FOR NEW PIPE.
4 DEMOLISH EXISTING CHILLED WATER PUMP AND REPLACE WITH NEW. COORDINATE PUMP DEMOLITION DURING NON-COOLING DAYS AS TO NOT INTERRUPT SERVICE.
5 EXISTING AIR HANDLER, PIPING AND DUCT TO REMAIN AS IS.
6 DEMOLISH EXISTING LOUVER AS SHOWN. PATCH AND REPAIR OPENING AS NECESSARY TO MATCH EXISTING FACADE.
7 EXISTING LOUVER TO REMAIN.
8 PROVIDE NEW CONTROLS TO REPLACE EXISTING, SERVING AIR HANDLER.
9 REMOVE EXISTING RETURN GRILLE AND DUCT AS SHOWN.

## GENERAL NOTES

A. ALL EXISTING SHOWN DARK AND SOLID TO REMAIN, ALL ITEMS SHOWN LIGHT AND DASHED TO BE REMOVED.

Copyright (C) 2012 by Colvin Engineering Associates, Inc. Salt Lake City, Utah. All rights reserved. Unauthorized copying and/or use is illegal and subject to prosecution.

10/2/2012 4:00:34 PM

VCBO ARCHITECTURE
524 SOUTH 600 EAST
SALT LAKE CITY, UT 84102
Phone: (801) 575-8800
Fax: (801) 531-9850
WWW: www.vcbo.com

DFCM CODE COMPLIANCE STAMP

# Student Activity Center
## Stromberg Addition - BID SET
Weber State University
3750 Harrison Blvd. Ogden, UT 84408

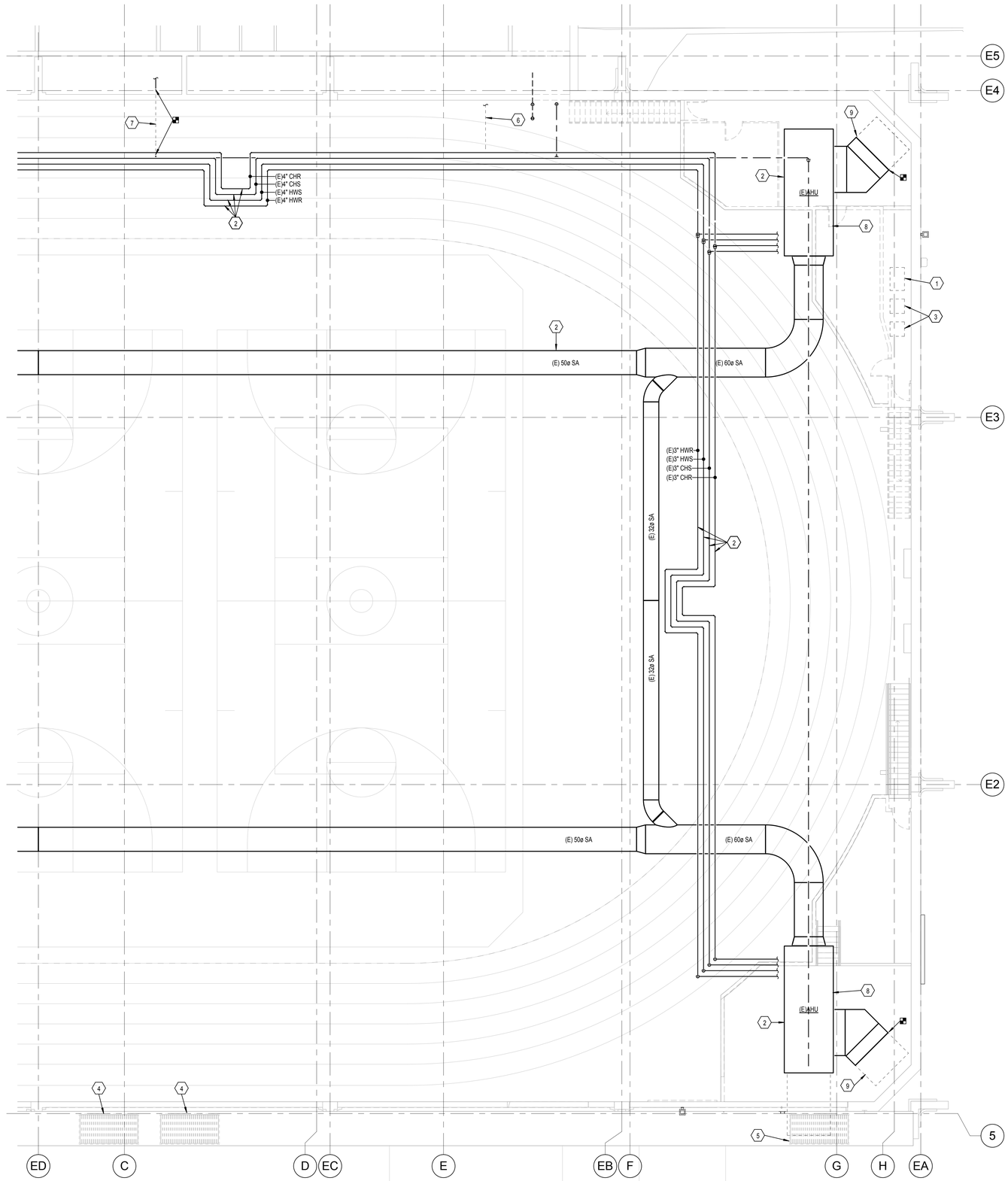
| Rev # | Date | Description |
|---|---|---|

Colvin Engineering Associates, Inc.
244 West 300 North Suite 200
Salt Lake City, Utah 84103
Phone: (801) 322-2400 / Fax: (801) 322-2416

Job # 2012-033.00
CAD File
Drawn TCF Checked BRC
Date 10.03.2012
Owner # DFCM #12031810

SECOND FLOOR AREA A & MECHANICAL ROOM MECHANICAL DEMOLITION PLAN

M121.1D




## SECOND FLOOR AREA B MECHANICAL & PLUMBING DEMOLITION PLAN

1 SCALE: 1/8" = 1'-0"

6' 0' 4' 8' 12' 16'

## KEYED NOTES

1. REMOVE EXISTING WATER HEATER ABOVE EXISTING SPACE. CAP MAINS.
2. EXISTING AIR HANDLER, PIPING AND DUCT TO REMAIN AS IS.
3. SEE ELECTRICAL PLANS.
4. DEMOLISH EXISTING LOUVER AS SHOWN. PATCH AND REPAIR OPENING AS NECESSARY TO MATCH EXISTING FACADE.
5. DEMOLISH EXISTING LOUVER AND ASSOCIATED DUCTWORK.
6. REMOVE AND RELOCATE EXISTING VENT AND DOMESTIC PIPE IN CONFLICT WITH NEW TRACK. RELOCATE AS REQUIRED ON SITE TO MAINTAIN SERVICE.
7. DISCONNECT EXISTING DOMESTIC COLD WATER. ROUTE NEW PIPE, SAME SIZE, IN NEW FURRED AREA WITH HYDRONIC PIPE.
8. PROVIDE NEW CONTROLS TO REPLACE EXISTING, SERVING AIR HANDLER.
9. REMOVE EXISTING RETURN GRILLE AND DUCT AS SHOWN.

## GENERAL NOTES

A. ALL EXISTING SHOWN DARK AND SOLID TO REMAIN, ALL ITEMS SHOWN LIGHT AND DASHED TO BE REMOVED.

Copyright (C) 2012 by Colvin Engineering Associates, Inc. Salt Lake City, Utah. All rights reserved. Unauthorized copying and/or use is illegal and subject to prosecution.

10/2/2012 4:00:37 PM

VCBO
ARCHITECTURE
VALENTINER
CRANE
BRUNJES
ONYON

VCBO ARCHITECTURE
524 SOUTH 600 EAST
SALT LAKE CITY, UT 84102
Phone: (801) 575-8800
Fax: (801) 531-9850
WWW: www.vcbo.com

DFCM CODE COMPLIANCE STAMP

# Student Activity Center
## Stromberg Addition - BID SET
Weber State University
3750 Harrison Blvd. Ogden, UT 84408

| Rev # | Date | Description |
|---|---|---|

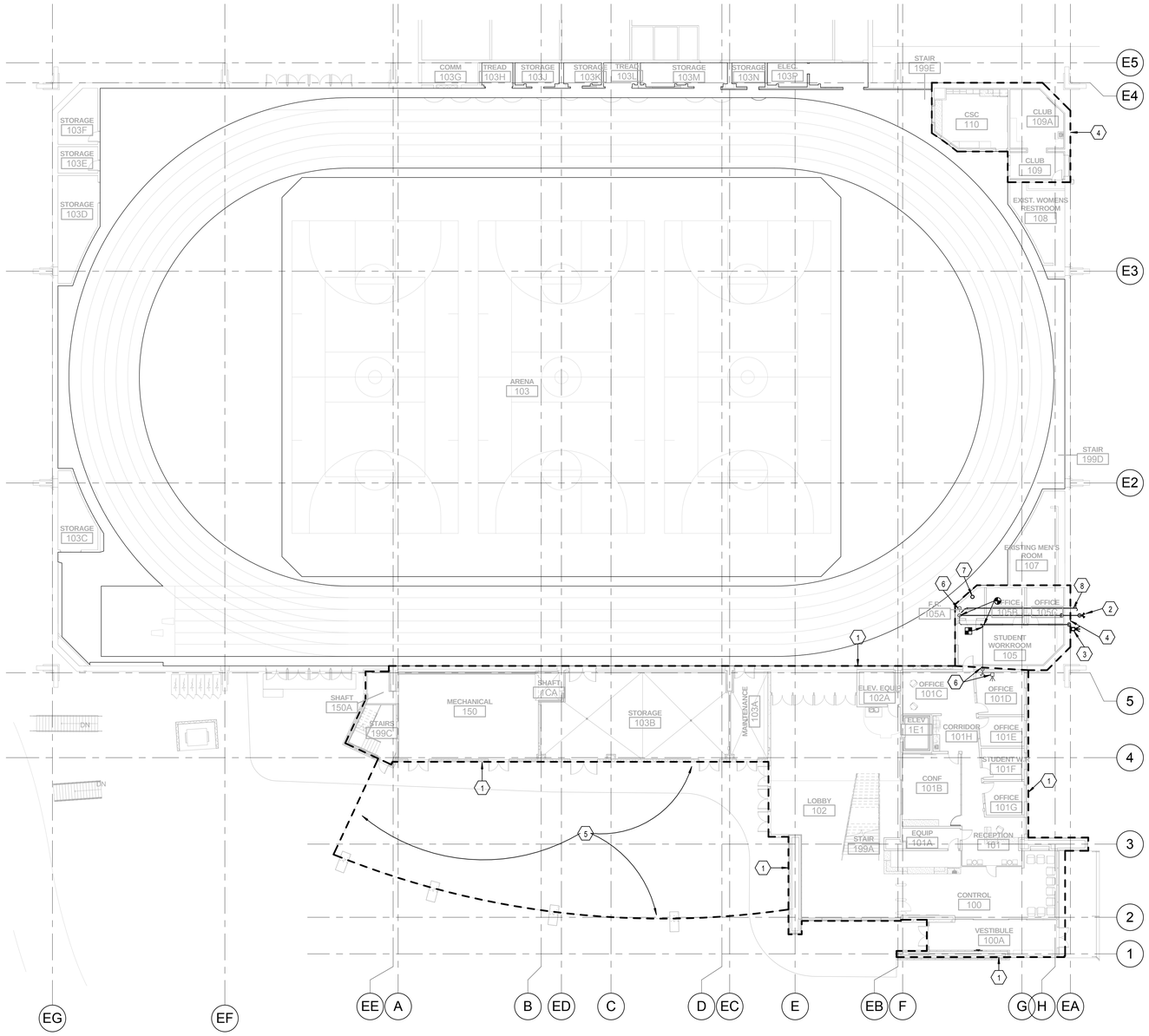
Stephen G. Colvin
Registered Professional Engineer
No. 187524
10/3/2012
Signature Date
State of Utah

Colvin Engineering Associates, Inc.
244 West 300 North Suite 200
Salt Lake City, Utah 84103
Phone: (801) 322-2400 / Fax: (801) 322-2418

Job # 2012-033.00
CAD File
Drawn TCF Checked BRC
Date 10.03.2012
Owner # DFCM #12031810

SECOND FLOOR AREA B MECHANICAL & PLUMBING DEMOLITION PLAN

M122.1D




## KEYED NOTES

1. FIRE SPRINKLER SYSTEM TO ACCOMMODATE AREA(S) SHOWN.
2. REMOTE FIRE DEPARTMENT CONNECTION. FIELD VERIFY EXACT LOCATION WITH DESIGN SPECIFICATIONS AND FIRE PROTECTION CONTRACTOR AND CAMPUS FIRE MARSHAL.
3. FIRE ALARM AND STROBE. CONNECT NEW AND EXISTING RISERS TO ALARM AND STROBE.
4. MODIFY AND EXTEND EXISTING SYSTEM TO ACCOMMODATE NEW FLOOR PLANS IN THIS AREA.
5. PROVIDE DRY PREACTION FIRE PROTECTION LOOP FOR OVERHANG PROTECTION OF BUILDING OVER PARKING. COMPRESSOR AND DRY LOOP CONTROL LOCATED IN MECHANICAL ROOM 150.
6. EXISTING (2) FIRE RISERS. REMOVE WATER GONG AND ASSOCIATED PIPING AND CAP. REMOVE FIRE DEPARTMENT CONNECTION AND UPDATE NEW FDC PIPING TO NEW LOCATION. THIS WORK TO BE COMPLETED BEFORE ANY NEW BUILDING CONSTRUCTION BEGINS.
7. LOCATE NEW RISER TOWARD BACK OF ROOM TO KEEP ACCESS TO EXISTING VALVES. CONNECT NEW RISER TO EXISTING DOWN STREAM OF EXISTING CHECK VALVE. COORDINATE NEW TEST DRAIN WITH ARCHITECT AND OWNER FOR FINAL LOCATION.
8. NEW FIRE LINE MAIN FEED. CONCRETE CUT FLOOR.

## GENERAL NOTES

A. NEW SPRINKLER HEADS TO MATCH CEILING TYPE. COORDINATE WITH ARCHITECTURAL SHEETS.
B. ALL PIPING SHALL BE DOMESTIC.
C. SEISMIC BRACING AND FLEXIBLE COUPLINGS SHALL BE PROVIDED AS REQUIRED FOR SEISMIC PROTECTION.
D. THE SPRINKLER CONTRACTOR SHALL COORDINATE WITH OTHER TRADES AND PROVIDE ADDITIONAL OFFSETS AS REQUIRED FOR INSTALLATION. SPRINKLER PIPING SHALL BE REROUTED AS REQUIRED WHERE CONFLICTS OCCUR. SPRINKLER CONTRACTOR'S PRICING SHALL INCLUDE ANY PIPING OFFSETS, OR REVISED CUT LENGTHS.
E. SEE ARCHITECTURAL PLANS FOR CEILING HEIGHTS.
F. COORDINATE WITH AHJ FOR SYSTEM DESIGN REQUIREMENTS.
G. NO PIPING TO BE SUPPORTED FROM ROOF DECK.
H. PROVIDE EXPANSION FITTINGS IN PIPE CROSSING BUILDING EXPANSION JOINT AT EXISTING BUILDING TO ADDITION INTERFACE. BUILDING EXPANSION JOINT AT GRID 5.

1 FIRST FLOOR OVERALL FIRE PROTECTION PLAN
SCALE: 1/16" = 1'-0"
12' 0' 8' 16' 24' 32'

Copyright (C) 2012 by Colvin Engineering Associates, Inc. Salt Lake City, Utah. All rights reserved. Unauthorized copying and/or use is illegal and subject to prosecution.

10/2/2012 3:59:48 PM

VCBO ARCHITECTURE
524 SOUTH 600 EAST
SALT LAKE CITY, UT 84102
Phone: (801) 575-8800
Fax: (801) 531-9850
WWW: www.vcbo.com

DFCM CODE COMPLIANCE STAMP

# Student Activity Center
## Stromberg Addition - BID SET
Weber State University
3750 Harrison Blvd. Ogden, UT 84408

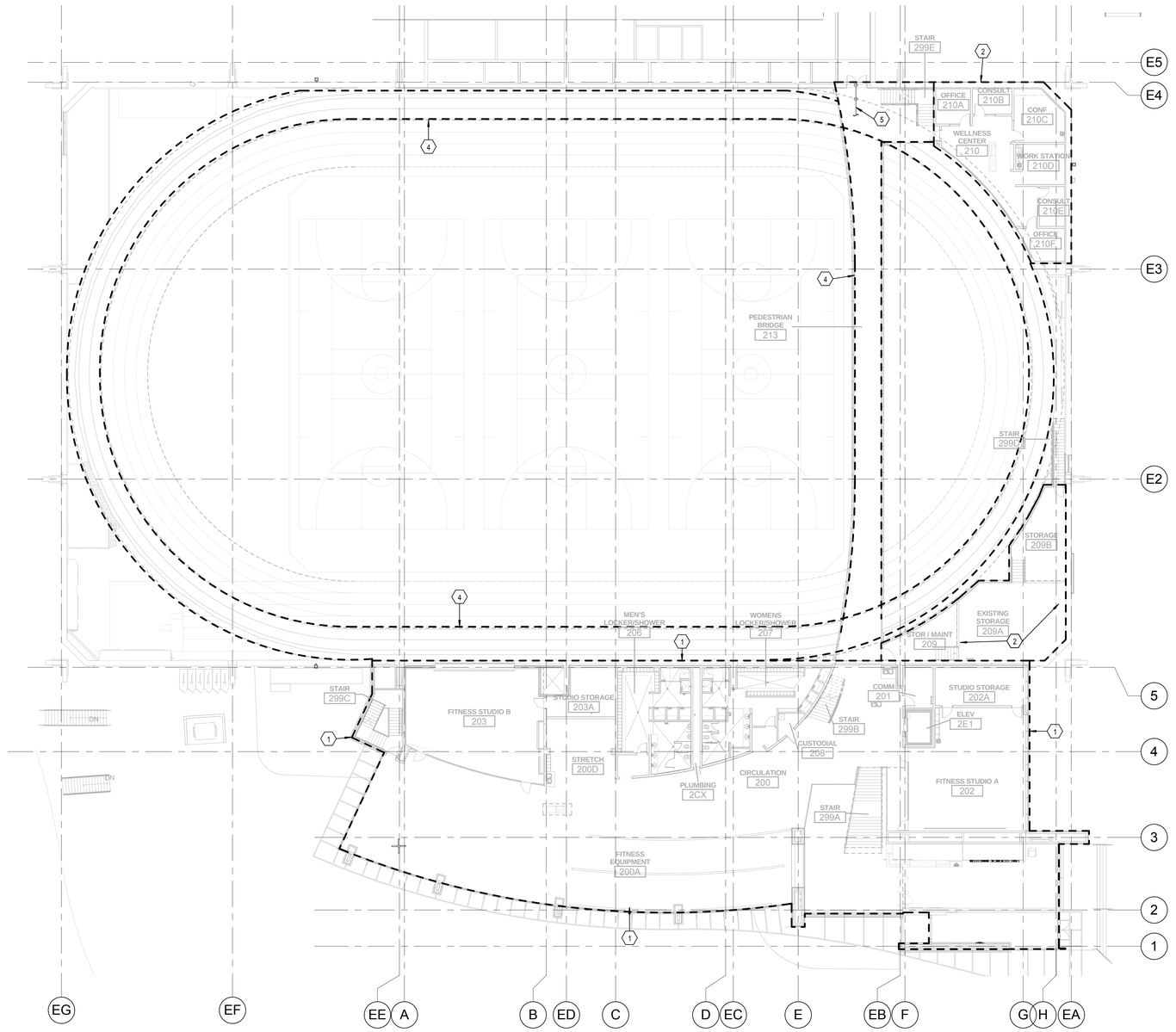
Rev # Date Description

Job # 2012-033.00
CAD File
Drawn TCF Checked BRC
Date 10.03.2012
Owner # DFCM #12031810

FIRST FLOOR FIRE PROTECTION PLAN

F101

Colvin Engineering Associates, Inc.
244 West 300 North Suite 200
Salt Lake City, Utah 84103
Phone: (801) 322-2400 / Fax: (801) 322-2416




## KEYED NOTES

1. FIRE SPRINKLER SYSTEM TO ACCOMMODATE AREA(S) SHOWN.
2. MODIFY AND EXTEND EXISTING SYSTEM TO ACCOMMODATE NEW FLOOR PLANS IN THIS AREA.
3. PROVIDE DRY PREACTION FIRE PROTECTION LOOP FOR OVERHANG PROTECTION OF BUILDING OVER PARKING. COMPRESSOR AND DRY LOOP CONTROL LOCATED IN MECHANICAL ROOM 150.
4. MODIFY EXISTING SYSTEM TO COVER AREA UNDER TRACK AND BRIDGE.
5. REMOVE AND RELOCATE EXISTING FIRE SPRINKLER PIPE IN CONFLICT WITH NEW CORRIDOR AND TRACK. RELOCATE AS REQUIRED ON SITE TO MAINTAIN SERVICE.

## GENERAL NOTES

A. NEW SPRINKLER HEADS TO MATCH CEILING TYPE. COORDINATE WITH ARCHITECTURAL SHEETS.

B. ALL PIPING SHALL BE DOMESTIC.

C. SEISMIC BRACING AND FLEXIBLE COUPLINGS SHALL BE PROVIDED AS REQUIRED FOR SEISMIC PROTECTION.

D. THE SPRINKLER CONTRACTOR SHALL COORDINATE WITH OTHER TRADES AND PROVIDE ADDITIONAL OFFSETS AS REQUIRED FOR INSTALLATION. SPRINKLER PIPING SHALL BE REROUTED AS REQUIRED WHERE CONFLICTS OCCUR. SPRINKLER CONTRACTOR'S PRICING SHALL INCLUDE ANY PIPING OFFSETS, OR REVISED CUT LENGTHS.

E. SEE ARCHITECTURAL PLANS FOR CEILING HEIGHTS.

F. COORDINATE WITH AHJ FOR SYSTEM DESIGN REQUIREMENTS.

G. NO PIPING TO BE SUPPORTED FROM ROOF DECK.

H. PROVIDE EXPANSION FITTINGS IN PIPE CROSSING BUILDING EXPANSION JOINT AT EXISTING BUILDING TO ADDITION INTERFACE. BUILDING EXPANSION JOINT AT GRID 5.

## 1 SECOND FLOOR OVERALL FIRE PROTECTION PLAN

SCALE: 1/16" = 1'-0"

12' 0' 8' 16' 24' 32'

Copyright (C) 2012 by Colvin Engineering Associates, Inc. Salt Lake City, Utah. All rights reserved. Unauthorized copying and/or use is illegal and subject to prosecution.

10/2/2012 3:59:55 PM

VCBO
ARCHITECTURE
VALENTINER
CRANE
BRUNJES
ONYON

VCBO ARCHITECTURE
524 SOUTH 600 EAST
SALT LAKE CITY, UT 84102
Phone: (801) 575-8800
Fax: (801) 531-9850
WWW: www.vcbo.com

DFCM CODE COMPLIANCE STAMP

# Student Activity Center
## Stromberg Addition - BID SET
Weber State University
3750 Harrison Blvd. Ogden, UT 84408

| Rev # | Date | Description |
|---|---|---|

Shawn G. Colvin — 167524 — 10/3/2012 — Registered Professional Engineer — State of Utah

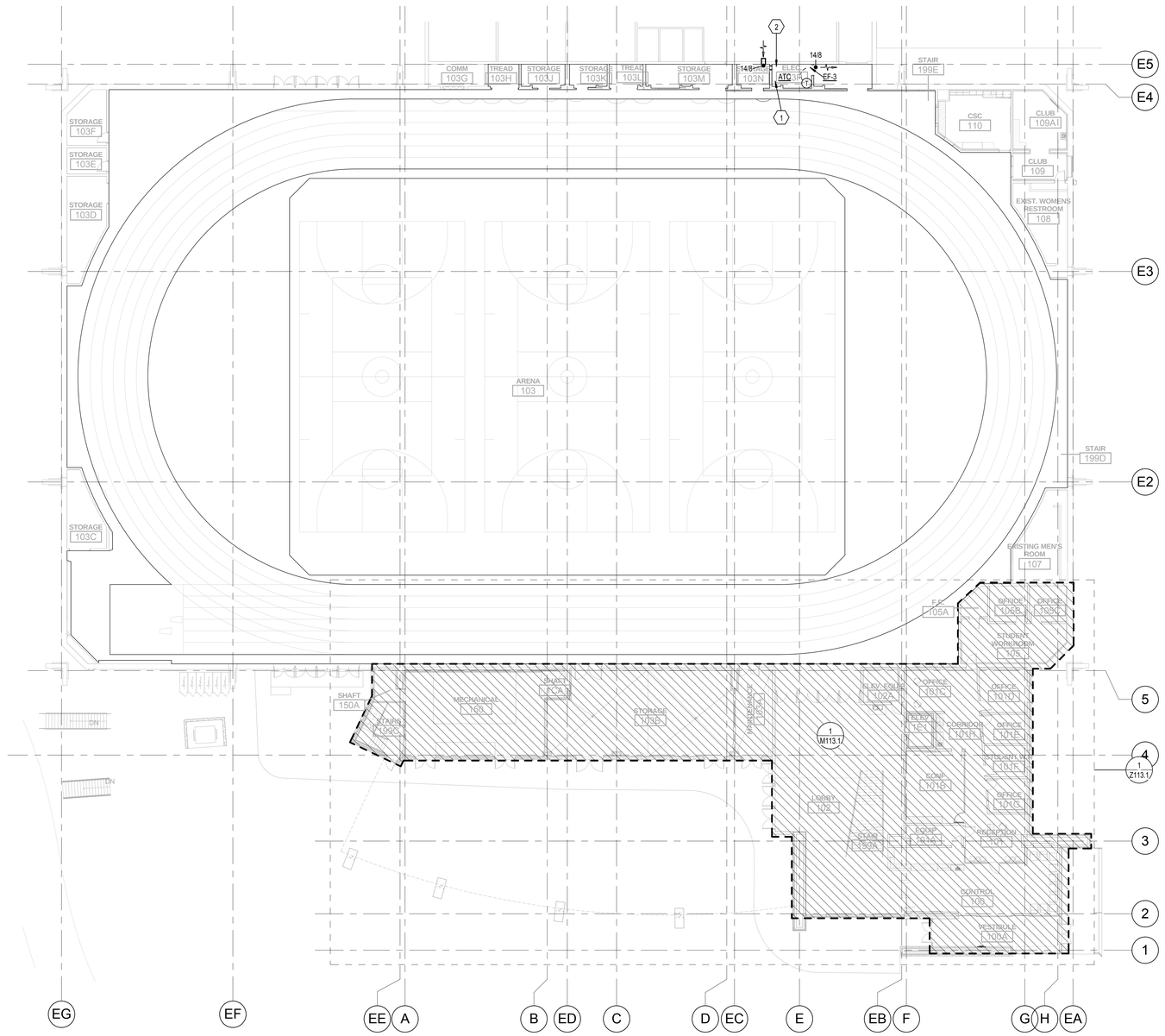
Colvin Engineering Associates, Inc.
244 West 300 North Suite 200
Salt Lake City, Utah 84103
Phone: (801) 322-2400 / Fax: (801) 322-2416

Job # 2012-033.00
CAD File
Drawn TCF Checked BRC
Date 10.03.2012
Owner # DFCM #12031810

SECOND FLOOR FIRE PROTECTION PLAN

F102

Copyright (C) 2012 by Colvin Engineering Associates, Inc. Salt Lake City, Utah. All rights reserved. Unauthorized copying and/or use is illegal and subject to prosecution.




## KEYED NOTES

1 NEW LOCATION OF RELOCATED ATC PANEL AND CONTROLS.

2 DROP DUCT DOWN AND OPEN AT 6" A.F.F.

## GENERAL NOTES

A. NO DUCT OR PIPE TO RUN OVER ELECTRICAL PANEL.

B. FIRE/SMOKE DAMPER MOTORS AND MOTORIZED DAMPERS TO BE MOUNTED TO SIDE OF NEAREST CEILING ACCESS HATCH OR OPEN CEILING AREA. PROVIDE 24" X 24" DUCT ACCESS AS REQUIRED. TYPICAL.

C. COORDINATE DUCTWORK AND EQUIPMENT WITH ALL TRADES.

D. ROUTE 3/4" CONDENSATE DRAINS FOR ALL REQUIRED MECHANICAL EQUIPMENT TO NEAREST FLOOR DRAIN OR SERVICE SINK.

E. BUILDING EXPANSION JOINT AT GRID 5. PROVIDE FLEXIBLE CONNECTION TO MEET REQUIREMENTS.

F. PROVIDE A WATER TIGHT PAN THAT IS 2" DEEP AND 6" LARGER THAN ANY PLUMBING, MECHANICAL PIPING, OR MECHANICAL EQUIPMENT INSTALLED OVER ANY ELECTRICAL EQUIPMENT OR GEAR THAT IS UNAVOIDABLE.

G. DIFFUSERS ALONG GLASS TO BLOW TOWARD GLASS.

1 FIRST FLOOR OVERALL MECHANICAL PLAN

SCALE: 1/16" = 1'-0"

12' 0' 8' 16' 24' 32'

VCBO ARCHITECTURE
524 SOUTH 600 EAST
SALT LAKE CITY, UT 84102
Phone: (801) 575-8800
Fax: (801) 531-9850
WWW: www.vcbo.com

DFCM CODE COMPLIANCE STAMP

# Student Activity Center
## Stromberg Addition - BID SET
Weber State University
3750 Harrison Blvd. Ogden, UT 84408

| Rev # | Date | Description |
|---|---|---|

Stephen G. Colvin 167524 REGISTERED PROFESSIONAL ENGINEER State of Utah 10/3/2012

Colvin Engineering Associates, Inc.
244 West 300 North Suite 200
Salt Lake City, Utah 84103
Phone: (801) 322-2400 / Fax: (801) 322-2416

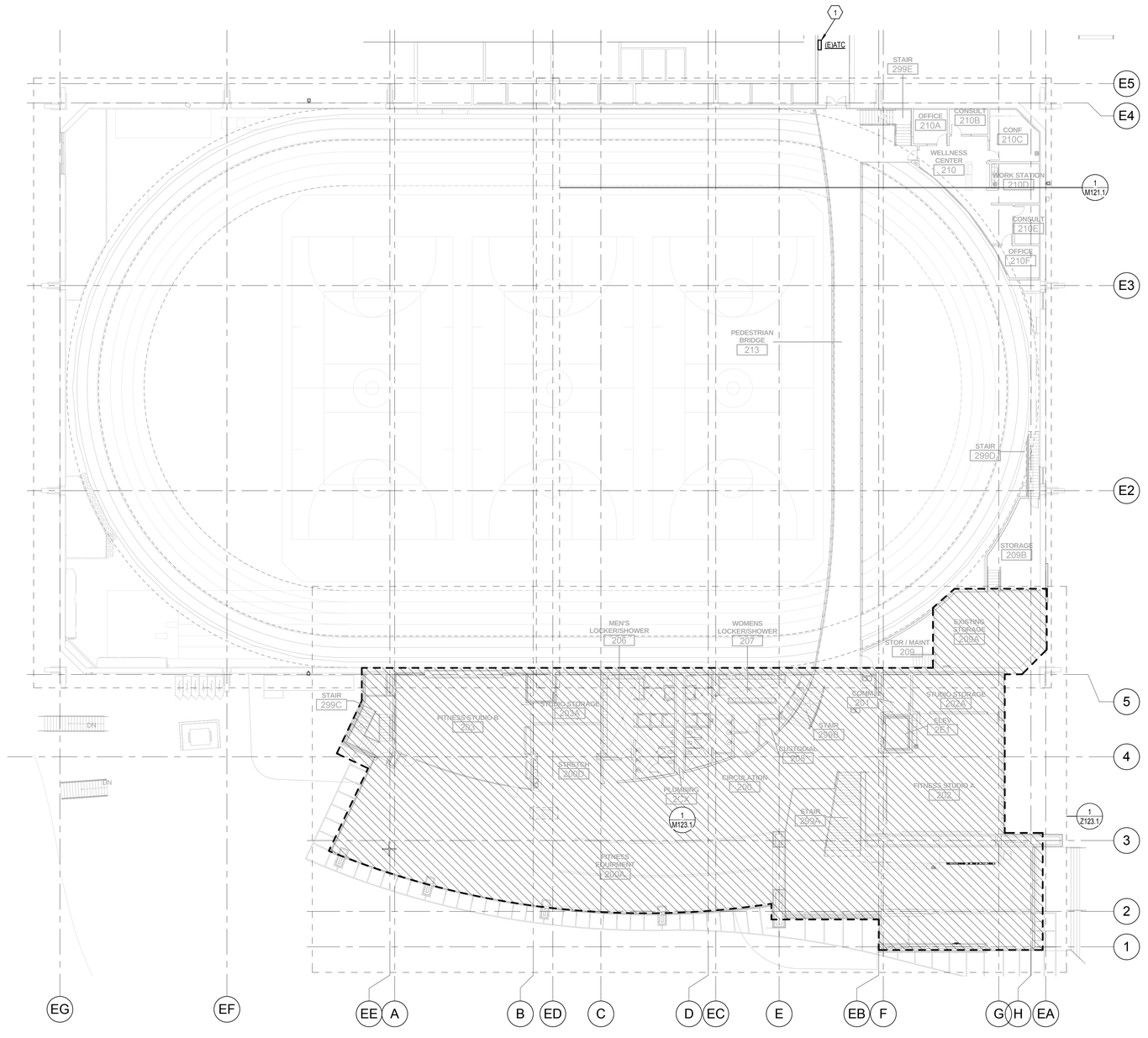
Job # 2012-033.00
CAD File
Drawn TCF Checked BRC
Date 10.03.2012
Owner # DFCM #12031810

FIRST FLOOR OVERALL MECHANICAL PLAN

M101

10/2/2012 3:59:59 PM

Copyright (C) 2012 by Colvin Engineering Associates, Inc. Salt Lake City, Utah. All rights reserved. Unauthorized copying and/or use is illegal and subject to prosecution.




## KEYED NOTES

1 RELOCATE EXISTING ATC PANEL AND ALL CONTROLS IN JANITORS CLOSET TO FIRST FLOOR, NEW ELECTRICAL ROOM. SEE SHEET M101.

## GENERAL NOTES

A. NO DUCT OR PIPE TO RUN OVER ELECTRICAL PANEL.

B. FIRE/SMOKE DAMPER MOTORS AND MOTORIZED DAMPERS TO BE MOUNTED TO SIDE OF NEAREST CEILING ACCESS HATCH OR OPEN CEILING AREA. PROVIDE 24" X 24" DUCT ACCESS AS REQUIRED. TYPICAL.

C. COORDINATE DUCTWORK AND EQUIPMENT WITH ALL TRADES.

D. ROUTE 3/4" CONDENSATE DRAINS FOR ALL REQUIRED MECHANICAL EQUIPMENT TO NEAREST FLOOR DRAIN OR SERVICE SINK.

E. BUILDING EXPANSION JOINT AT GRID 5. PROVIDE FLEXIBLE CONNECTION TO MEET REQUIREMENTS.

F. PROVIDE A WATER TIGHT PAN THAT IS 2" DEEP AND 6" LARGER THAN ANY PLUMBING, MECHANICAL PIPING, OR MECHANICAL EQUIPMENT INSTALLED OVER ANY ELECTRICAL EQUIPMENT OR GEAR THAT IS UNAVOIDABLE.

G. DIFFUSERS ALONG GLASS TO BLOW TOWARD GLASS.

## 1 SECOND FLOOR OVERALL MECHANICAL PLAN

SCALE: 1/16" = 1'-0"

12' 0' 8' 16' 24' 32'

VCBO
ARCHITECTURE
VALENTINER
CRANE
BRUNJES
ONYON

VCBO ARCHITECTURE
524 SOUTH 600 EAST
SALT LAKE CITY, UT 84102
Phone: (801) 575-8800
Fax: (801) 531-9850
WWW: www.vcbo.com

DFCM CODE COMPLIANCE STAMP

# Student Activity Center
## Stromberg Addition - BID SET
Weber State University
3750 Harrison Blvd. Ogden, UT 84408

| Rev # | Date | Description |
|---|---|---|

Stephen G. Colvin
167524
10/3/2012
State of Utah

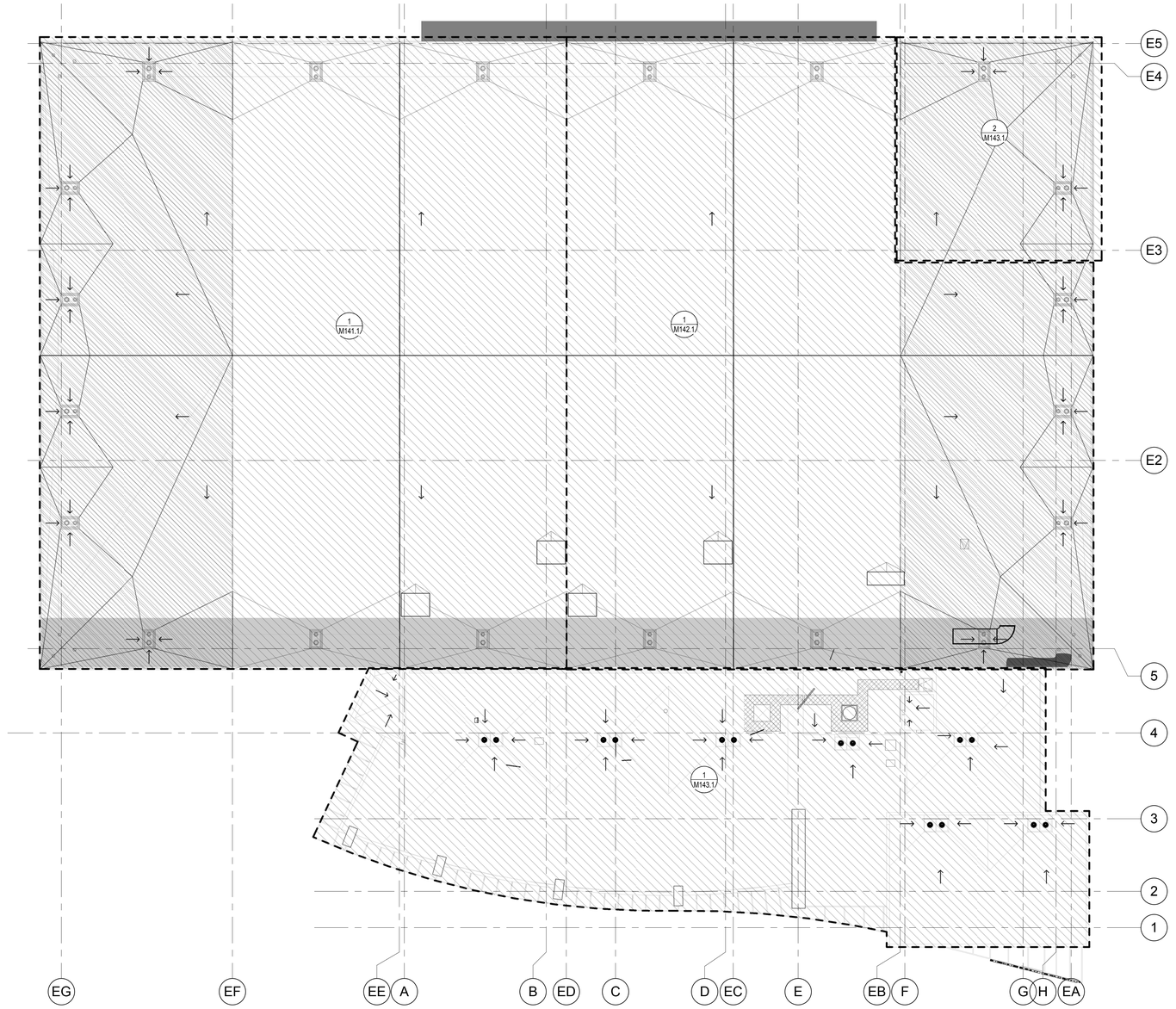
Colvin Engineering Associates, Inc.
244 West 300 North Suite 200
Salt Lake City, Utah 84103
Phone: (801) 322-2400 / Fax: (801) 322-2416

Job # 2012-033.00
CAD File
Drawn TCF Checked BRC
Date 10.03.2012
Owner # DFCM #12031810

SECOND FLOOR OVERALL MECHANICAL PLAN

M102

10/2/2012 4:00:04 PM




## KEYED NOTES

## GENERAL NOTES

A. NO DUCT OR PIPE TO RUN OVER ELECTRICAL PANEL.

B. FIRE/SMOKE DAMPER MOTORS AND MOTORIZED DAMPERS TO BE MOUNTED TO SIDE OF NEAREST CEILING ACCESS HATCH OR OPEN CEILING AREA. PROVIDE 24" X 24" DUCT ACCESS AS REQUIRED. TYPICAL.

C. COORDINATE DUCTWORK AND EQUIPMENT WITH ALL TRADES.

D. ROUTE 3/4" CONDENSATE DRAINS FOR ALL REQUIRED MECHANICAL EQUIPMENT TO NEAREST FLOOR DRAIN OR SERVICE SINK.

E. BUILDING EXPANSION JOINT AT GRID 5. PROVIDE FLEXIBLE CONNECTION TO MEET REQUIREMENTS.

F. PROVIDE A WATER TIGHT PAN THAT IS 2" DEEP AND 6" LARGER THAN ANY PLUMBING, MECHANICAL PIPING, OR MECHANICAL EQUIPMENT INSTALLED OVER ANY ELECTRICAL EQUIPMENT OR GEAR THAT IS UNAVOIDABLE.

G. DIFFUSERS ALONG GLASS TO BLOW TOWARD GLASS.

## 1 ROOF OVERALL MECHANICAL AND PLUMBING PLAN

SCALE: 1/16" = 1'-0"

12' 0' 8' 16' 24' 32'

Copyright (C) 2012 by Colvin Engineering Associates, Inc. Salt Lake City, Utah. All rights reserved. Unauthorized copying and/or use is illegal and subject to prosecution.

10/2/2012 4:00:15 PM

VCBO
ARCHITECTURE
VALENTINER
CRANE
BRUNJES
ONYON

VCBO ARCHITECTURE
524 SOUTH 600 EAST
SALT LAKE CITY, UT 84102
Phone: (801) 575-8800
Fax: (801) 531-9850
www: www.vcbo.com

DFCM CODE COMPLIANCE STAMP

# Student Activity Center
## Stromberg Addition - BID SET
Weber State University
3750 Harrison Blvd. Ogden, UT 84408

| Rev # | Date | Description |
|---|---|---|

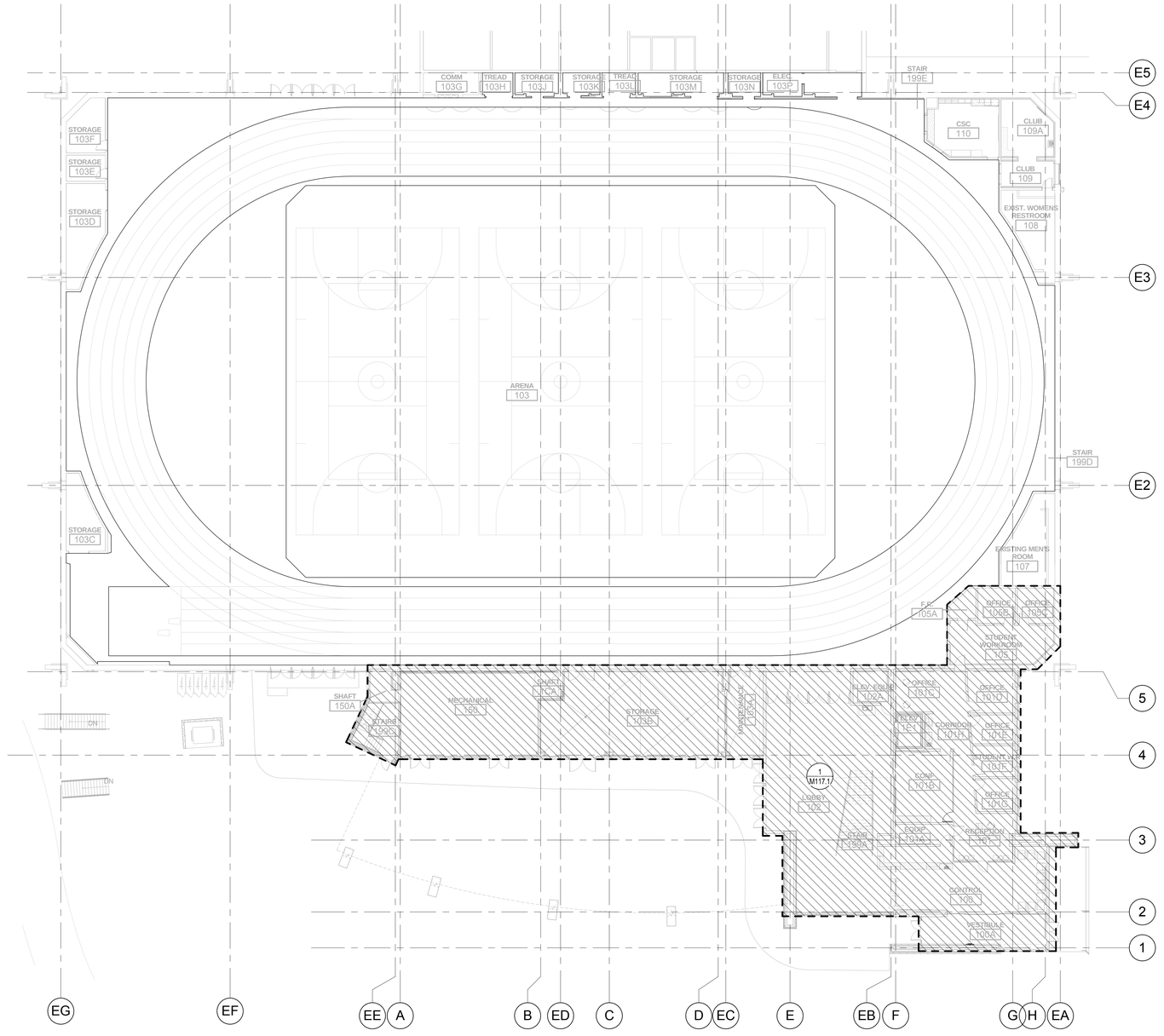
Colvin Engineering Associates, Inc.
244 West 300 North Suite 200
Salt Lake City, Utah 84103
Phone: (801) 322-2400 / Fax: (801) 322-2416

Job # 2012-033.00
CAD File
Drawn TCF Checked BRC
Date 10.03.2012
Owner # DFCM #12031810

ROOF OVERALL MECHANICAL AND PLUMBING PLAN

M104

Copyright (C) 2012 by Colvin Engineering Associates, Inc. Salt Lake City, Utah. All rights reserved. Unauthorized copying and/or use is illegal and subject to prosecution.




## KEYED NOTES

## GENERAL NOTES

A. CONTRACTOR TO COORDINATE HEATING WATER SUPPLY AND RETURN PIPE ROUTING WITH ALL OTHER TRADES.

B. SEE REQUIRED DETAIL OF PIPE SLEEVE FOR INSULATED PIPE THRU WALL ON 11/ P501.

C. CONTRACTOR TO COORDINATE THE ELEVATOR EQUIPMENT AND ELECTRICAL ROOM AREAS TO NOT CONTAIN ANY PIPE ROUTING ABOVE.

D. BUILDING EXPANSION JOINT AT GRID 5. PROVIDE FLEXIBLE CONNECTION TO MEET REQUIREMENTS.

1 FIRST FLOOR OVERALL MECHANICAL PIPING PLAN

SCALE: 1/16" = 1'-0"

12' 0' 8' 16' 24' 32'

VCBO
ARCHITECTURE
VALENTINER
CRANE
BRUNJES
ONYON

VCBO ARCHITECTURE
524 SOUTH 600 EAST
SALT LAKE CITY, UT 84102
Phone: (801) 575-8800
Fax: (801) 531-9850
WWW: www.vcbo.com

DFCM CODE COMPLIANCE STAMP

# Student Activity Center
## Stromberg Addition - BID SET
Weber State University
3750 Harrison Blvd. Ogden, UT 84408

| Rev # | Date | Description |
|---|---|---|

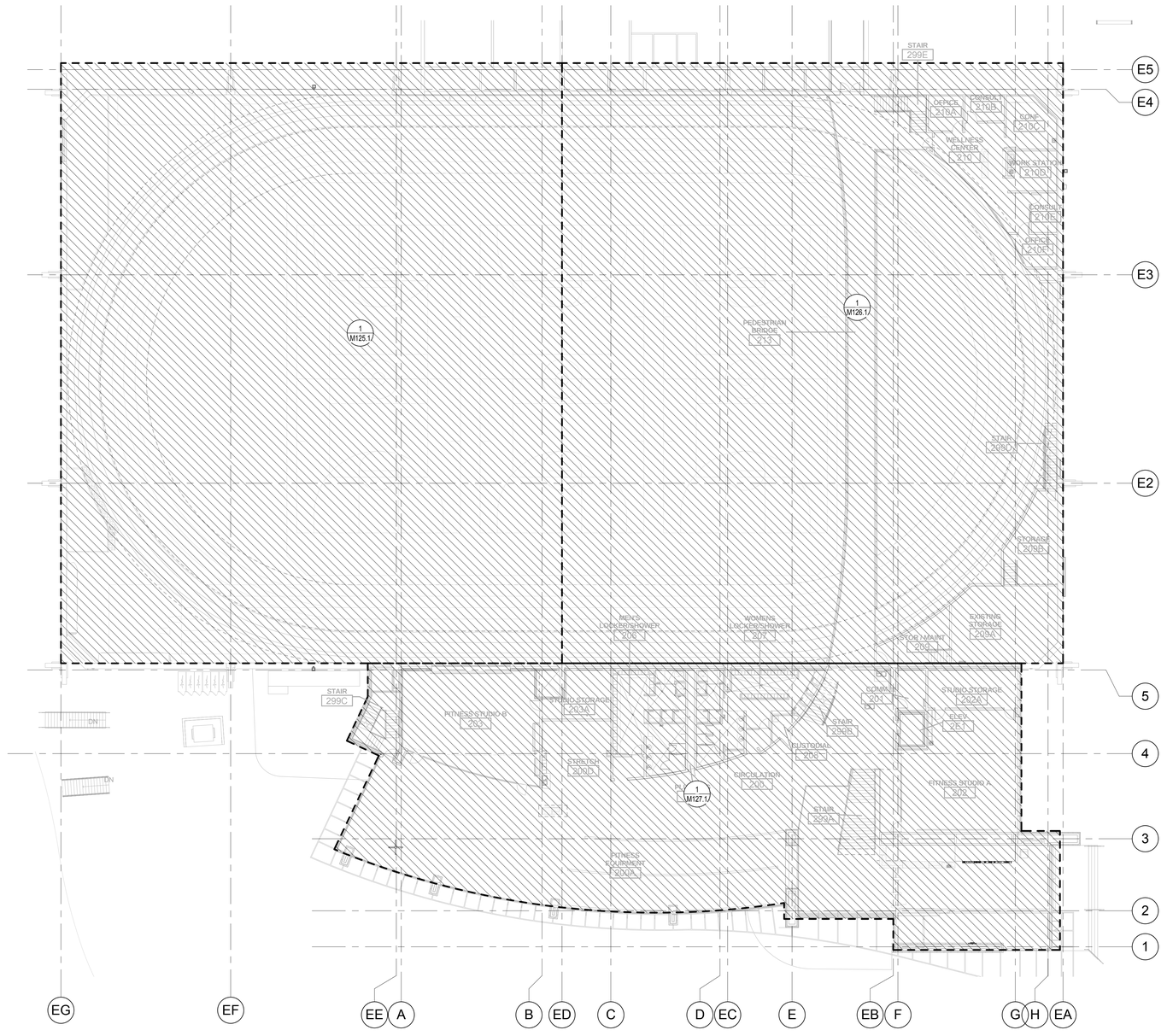
Colvin Engineering Associates, Inc.
244 West 300 North Suite 200
Salt Lake City, Utah 84103
Phone: (801) 322-2400 / Fax: (801) 322-2416

Job # 2012-033.00
CAD File
Drawn TCF Checked BRC
Date 10.03.2012
Owner # DFCM #12031810

FIRST FLOOR OVERALL MECHANICAL PIPING PLAN

M105

10/2/2012 4:00:19 PM




## KEYED NOTES

## GENERAL NOTES

A. CONTRACTOR TO COORDINATE HEATING WATER SUPPLY AND RETURN PIPE ROUTING WITH ALL OTHER TRADES.

B. SEE REQUIRED DETAIL OF PIPE SLEEVE FOR INSULATED PIPE THRU WALL ON 11/ P501.

C. CONTRACTOR TO COORDINATE THE ELEVATOR EQUIPMENT AND ELECTRICAL ROOM AREAS TO NOT CONTAIN ANY PIPE ROUTING ABOVE.

D. BUILDING EXPANSION JOINT AT GRID 5. PROVIDE FLEXIBLE CONNECTION TO MEET REQUIREMENTS.

## 1 SECOND FLOOR OVERALL MECHANICAL PIPING PLAN

SCALE: 1/16" = 1'-0"

12' 0' 8' 16' 24' 32'

Copyright (C) 2012 by Colvin Engineering Associates, Inc. Salt Lake City, Utah. All rights reserved. Unauthorized copying and/or use is illegal and subject to prosecution.

10/2/2012 4:00:24 PM

VCBO
ARCHITECTURE
VALENTINER
CRANE
BRUNJES
ONYON

VCBO ARCHITECTURE
524 SOUTH 600 EAST
SALT LAKE CITY, UT 84102
Phone: (801) 575-8800
Fax: (801) 531-9850
WWW: www.vcbo.com

DFCM CODE COMPLIANCE STAMP

# Student Activity Center
## Stromberg Addition - BID SET
Weber State University
3750 Harrison Blvd. Ogden, UT 84408

| Rev # | Date | Description |
|---|---|---|

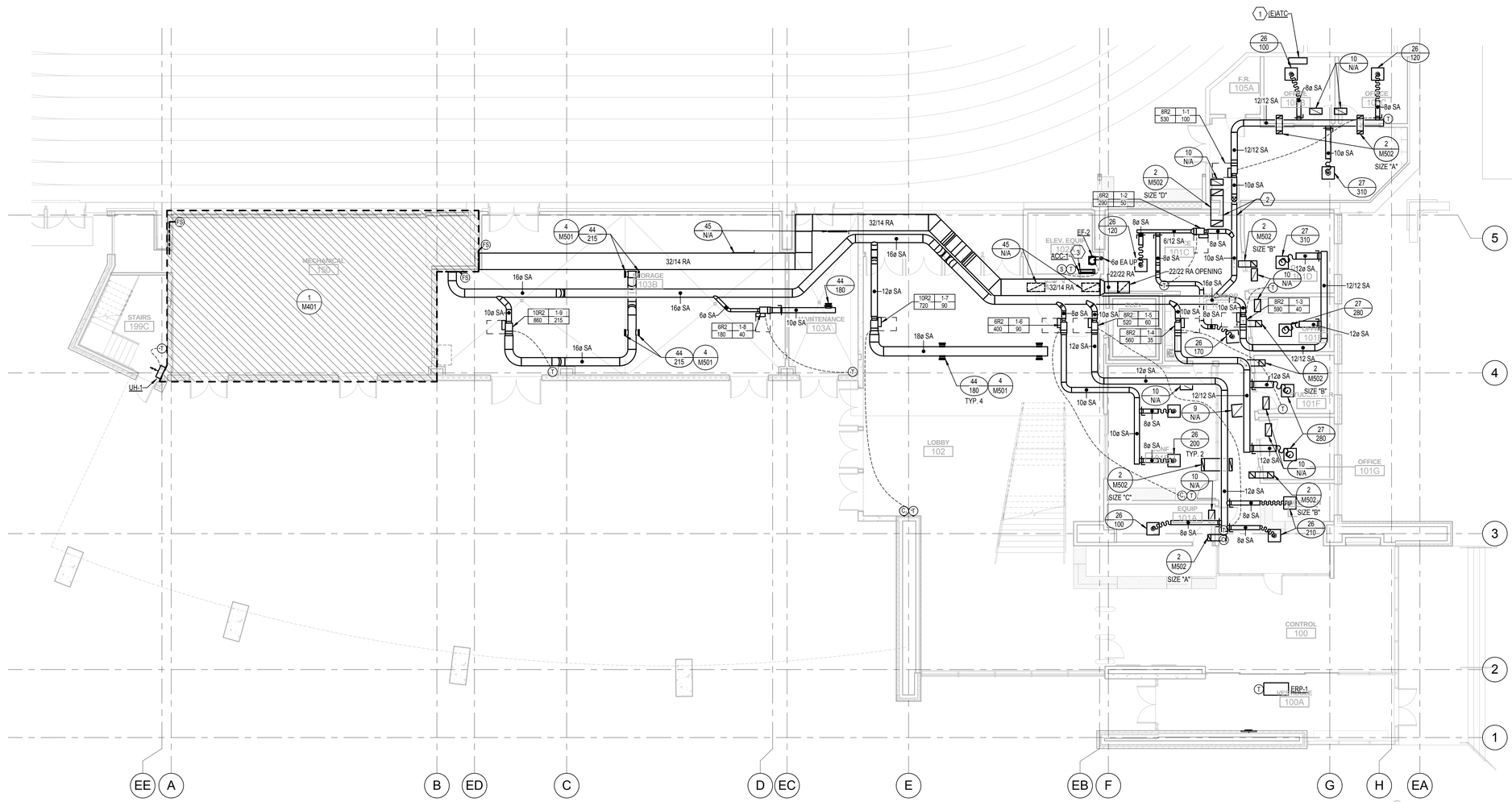
Seal: Shawn C. Colvin, 187524, 10/3/2012, Professional Engineer, State of Utah

Colvin Engineering Associates, Inc.
244 West 300 North Suite 200
Salt Lake City, Utah 84103
Phone: (801) 322-2400 / Fax: (801) 322-2416

Job # 2012-033.00
CAD File
Drawn TCF Checked BRC
Date 10.03.2012
Owner # DFCM #12031810

SECOND FLOOR
OVERALL MECHANICAL
PIPING PLAN

M106




## KEYED NOTES

1. RELOCATE EXISTING ATC PANEL AND ALL CONTROLS TO SECOND FLOOR EXISTING STORAGE ROOM 209A. SEE SHEET M123.1.
2. PROVIDE EXPANSION JOINT AT THIS LOCATION.
3. KEEP UNIT FROM ABOVE ANY ELEVATOR EQUIPMENT. ROUTE CONDENSATE TO TAILPIECE OF S-1 IN CORRIDOR 101H.

## GENERAL NOTES

A. NO DUCT OR PIPE TO RUN OVER ELECTRICAL PANEL.

B. FIRE/SMOKE DAMPER MOTORS AND MOTORIZED DAMPERS TO BE MOUNTED TO SIDE OF NEAREST CEILING ACCESS HATCH OR OPEN CEILING AREA. PROVIDE 24" X 24" DUCT ACCESS AS REQUIRED. TYPICAL.

C. COORDINATE DUCTWORK AND EQUIPMENT WITH ALL TRADES.

D. ROUTE 3/4" CONDENSATE DRAINS FOR ALL REQUIRED MECHANICAL EQUIPMENT TO NEAREST FLOOR DRAIN OR SERVICE SINK.

E. BUILDING EXPANSION JOINT AT GRID 5. PROVIDE FLEXIBLE CONNECTION TO MEET REQUIREMENTS.

F. PROVIDE A WATER TIGHT PAN THAT IS 2" DEEP AND 6" LARGER THAN ANY PLUMBING, MECHANICAL PIPING, OR MECHANICAL EQUIPMENT INSTALLED OVER ANY ELECTRICAL EQUIPMENT OR GEAR THAT IS UNAVOIDABLE.

G. DIFFUSERS ALONG GLASS TO BLOW TOWARD GLASS.

1 FIRST FLOOR AREA C MECHANICAL PLAN

SCALE: 1/8" = 1'-0"

6' 0' 4' 8' 12' 16'

Copyright (C) 2012 by Colvin Engineering Associates, Inc. Salt Lake City, Utah. All rights reserved. Unauthorized copying and/or use is illegal and subject to prosecution.

10/2/2012 4:00:28 PM

VCBO
ARCHITECTURE
VALENTINER
CRANE
BRUNJES
ONYON

VCBO ARCHITECTURE
524 SOUTH 600 EAST
SALT LAKE CITY, UT 84102
Phone: (801) 575-8800
Fax: (801) 531-9850
www: www.vcbo.com

DFCM CODE COMPLIANCE STAMP

# Student Activity Center
## Stromberg Addition - BID SET
Weber State University
3750 Harrison Blvd. Ogden, UT 84408

| Rev # | Date | Description |
|---|---|---|

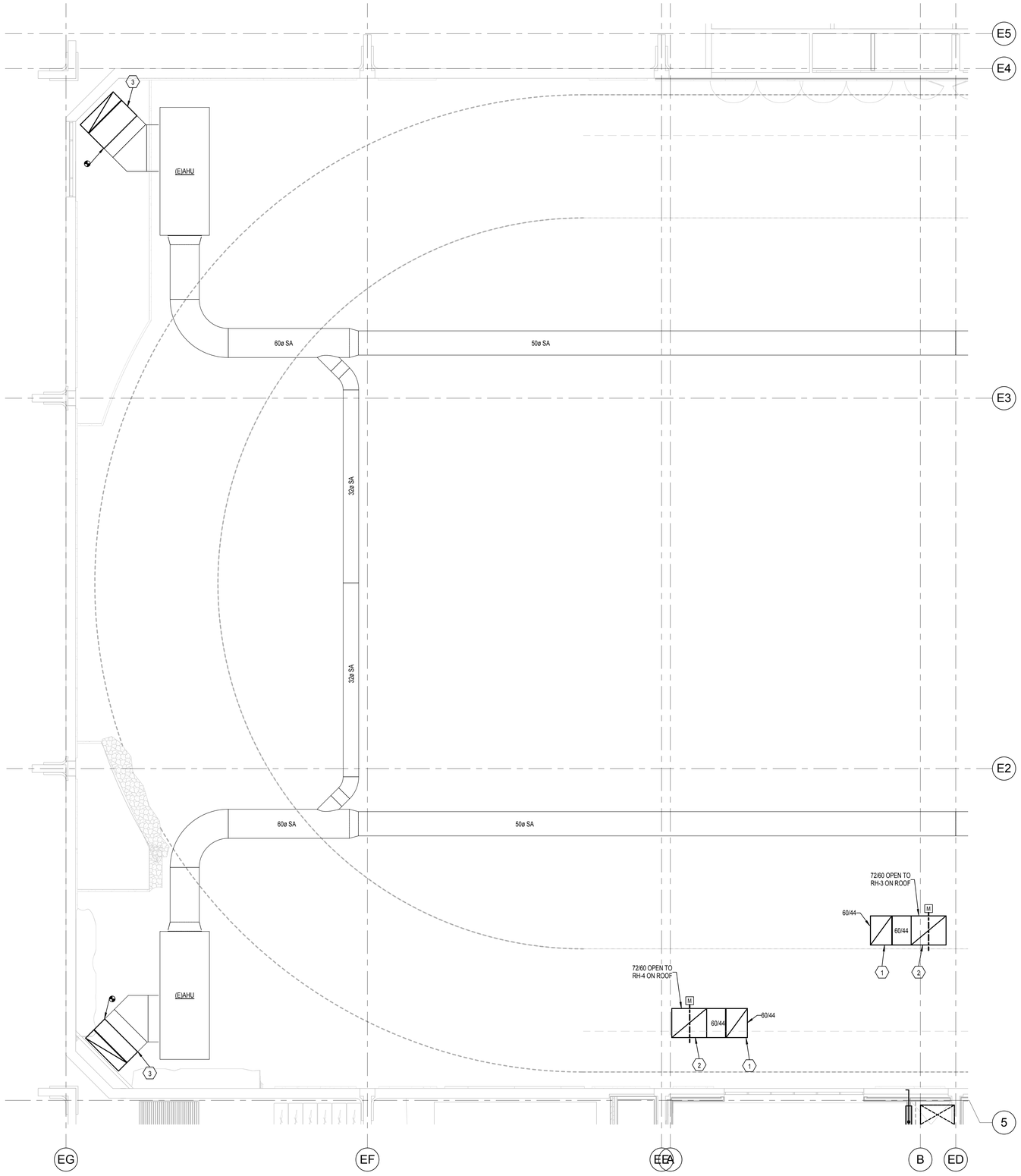
Colvin Engineering Associates, Inc.
244 West 300 North Suite 200
Salt Lake City, Utah 84103
Phone: (801) 322-2400 / Fax: (801) 322-2416

Job # 2012-033.00
CAD File
Drawn TCF Checked BRC
Date 10.03.2012
Owner # DFCM #12031810

FIRST FLOOR AREA C
MECHANICAL PLAN

M113.1

Copyright (C) 2012 by Colvin Engineering Associates, Inc. Salt Lake City, Utah. All rights reserved. Unauthorized copying and/or use is illegal and subject to prosecution.




## KEYED NOTES

1 PROVIDE BIRDSCREEN AT OPENING FOR DUCT SIZE LISTED.

2 RELIEF HOODS. PROVIDE WITH ATC DAMPER AND BACKDRAFT DAMPER. EXTEND DUCT FROM HOOD TO THE ATC AND BACKDRAFT DAMPERS. SEAL DUCT WHERE THE STRUCTURAL MEMBERS PASS THROUGH. RELIEF DAMPER SHALL BE INTERLOCKED TO AH-1, AH-2, AH-3, OR AH-4.

3 CONNECT NEW LINED ELBOW SAME SIZE AS EXISTING DUCT AND OPEN TOP TOWARD ROOF DECK.

## GENERAL NOTES

A. NO DUCT OR PIPE TO RUN OVER ELECTRICAL PANEL.

B. FIRE/SMOKE DAMPER MOTORS AND MOTORIZED DAMPERS TO BE MOUNTED TO SIDE OF NEAREST CEILING ACCESS HATCH OR OPEN CEILING AREA. PROVIDE 24" X 24" DUCT ACCESS AS REQUIRED. TYPICAL.

C. COORDINATE DUCTWORK AND EQUIPMENT WITH ALL TRADES.

D. ROUTE 3/4" CONDENSATE DRAINS FOR ALL REQUIRED MECHANICAL EQUIPMENT TO NEAREST FLOOR DRAIN OR SERVICE SINK.

E. BUILDING EXPANSION JOINT AT GRID 5. PROVIDE FLEXIBLE CONNECTION TO MEET REQUIREMENTS.

F. PROVIDE A WATER TIGHT PAN THAT IS 2" DEEP AND 6" LARGER THAN ANY PLUMBING, MECHANICAL PIPING, OR MECHANICAL EQUIPMENT INSTALLED OVER ANY ELECTRICAL EQUIPMENT OR GEAR THAT IS UNAVOIDABLE.

G. DIFFUSERS ALONG GLASS TO BLOW TOWARD GLASS.

## 1 SECOND FLOOR AREA A MECHANICAL PLAN

SCALE: 1/8" = 1'-0"

6' 0' 4' 8' 12' 16'

VCBO ARCHITECTURE
VALENTINER CRANE BRUNJES ONYON

VCBO ARCHITECTURE
524 SOUTH 600 EAST
SALT LAKE CITY, UT 84102
Phone: (801) 575-8800
Fax: (801) 531-9850
WWW: www.vcbo.com

DFCM CODE COMPLIANCE STAMP

# Student Activity Center
## Stromberg Addition - BID SET
Weber State University
3750 Harrison Blvd. Ogden, UT 84408

| Rev # | Date | Description |
|---|---|---|

Stephen G. Colvin — 167524 — 10/3/2012 — REGISTERED PROFESSIONAL ENGINEER — State of Utah

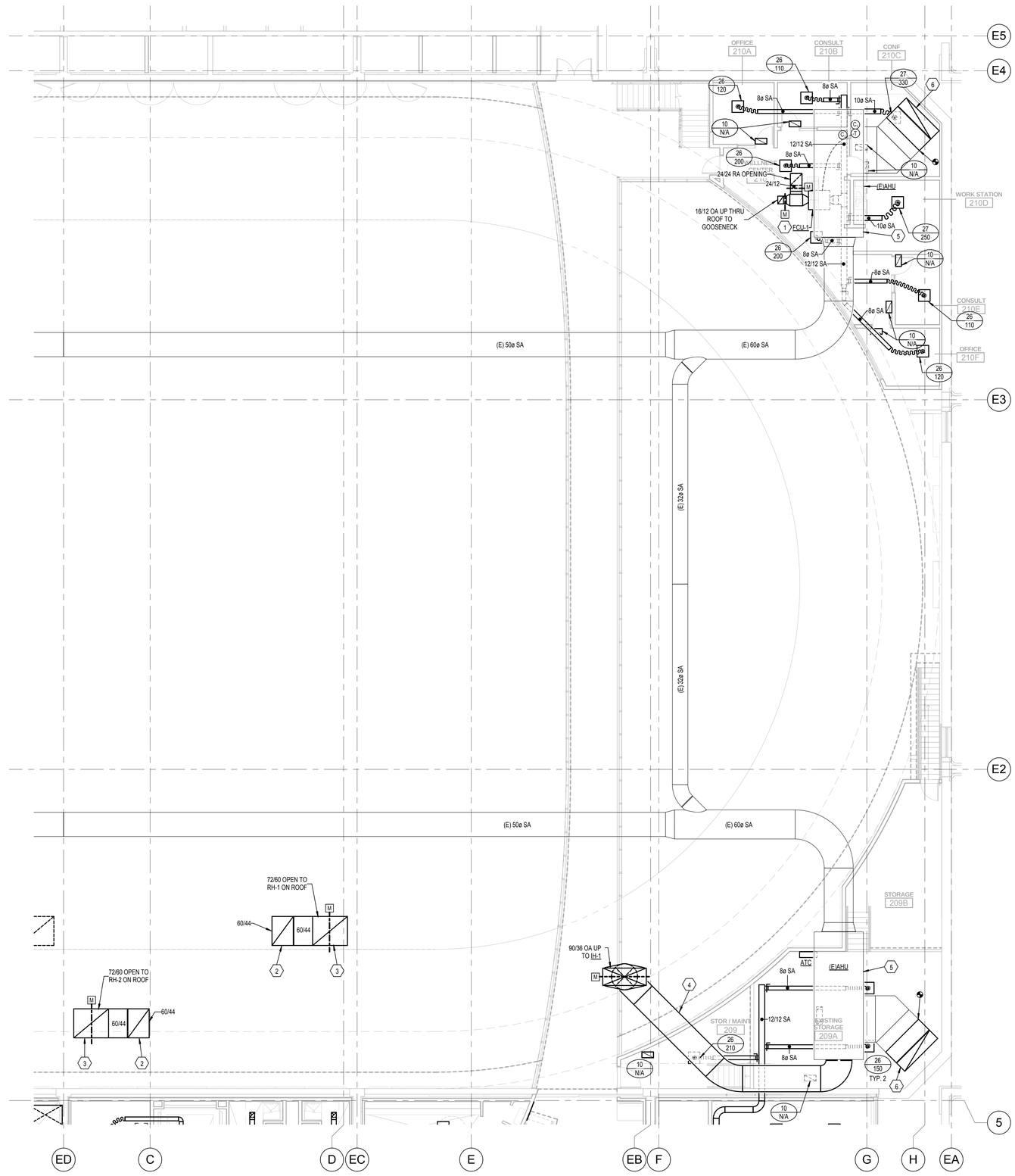
Colvin Engineering Associates, Inc.
244 West 300 North Suite 200
Salt Lake City, Utah 84103
Phone: (801) 322-2400 / Fax: (801) 322-2416

Job # 2012-033.00
CAD File
Drawn TCF Checked BRC
Date 10.03.2012
Owner # DFCM #12031810

SECOND FLOOR AREA
A MECHANICAL PLAN

M121.1

10/2/2012 4:00:33 PM




## KEYED NOTES

1. COORDINATE ON SITE FOR EXACT LOCATION. MAINTAIN 15'-0" FROM ANY AIR VENT OR EXHAUST.
2. PROVIDE BIRDSCREEN AT OPENING FOR DUCT SIZE LISTED.
3. RELIEF HOODS. PROVIDE WITH ATC DAMPER AND BACKDRAFT DAMPER. EXTEND DUCT FROM HOOD TO THE ATC AND BACKDRAFT DAMPERS. SEAL DUCT WHERE THE STRUCTURAL MEMBERS PASS THROUGH. RELIEF DAMPER SHALL BE INTERLOCKED TO AH-1, AH-2, AH-3, OR AH-4.
4. COORDINATE NEW DUCT ROUTING THROUGH EXISTING OPEN WEB STRUCTURE. CONTRACTOR TO VERIFY ROUTE DOES NOT CONFLICT WITH EXISTING PIPING AND DUCTWORK.
5. NEW UPGRADE TO EXISTING CONTROLS SERVING EXISTING AIR HANDLER TO MATCH NEW CONTROLS IN NEW ADDITION.
6. CONNECT NEW LINED ELBOW SAME SIZE AS EXISTING DUCT AND OPEN TOP TOWARD ROOF DECK.

## GENERAL NOTES

A. NO DUCT OR PIPE TO RUN OVER ELECTRICAL PANEL.

B. FIRE/SMOKE DAMPER MOTORS AND MOTORIZED DAMPERS TO BE MOUNTED TO SIDE OF NEAREST CEILING ACCESS HATCH OR OPEN CEILING AREA. PROVIDE 24" X 24" DUCT ACCESS AS REQUIRED. TYPICAL.

C. COORDINATE DUCTWORK AND EQUIPMENT WITH ALL TRADES.

D. ROUTE 3/4" CONDENSATE DRAINS FOR ALL REQUIRED MECHANICAL EQUIPMENT TO NEAREST FLOOR DRAIN OR SERVICE SINK.

E. BUILDING EXPANSION JOINT AT GRID 5. PROVIDE FLEXIBLE CONNECTION TO MEET REQUIREMENTS.

F. PROVIDE A WATER TIGHT PAN THAT IS 2" DEEP AND 6" LARGER THAN ANY PLUMBING, MECHANICAL PIPING, OR MECHANICAL EQUIPMENT INSTALLED OVER ANY ELECTRICAL EQUIPMENT OR GEAR THAT IS UNAVOIDABLE.

G. DIFFUSERS ALONG GLASS TO BLOW TOWARD GLASS.

1 SECOND FLOOR AREA B MECHANICAL PLAN
SCALE: 1/8" = 1'-0"

6' 0' 4' 8' 12' 16'

Copyright (C) 2012 by Colvin Engineering Associates, Inc. Salt Lake City, Utah. All rights reserved. Unauthorized copying and/or use is illegal and subject to prosecution.

10/2/2012 4:00:36 PM

VCBO
ARCHITECTURE
VALENTINER
CRANE
BRUNJES
ONYON

VCBO ARCHITECTURE
524 SOUTH 600 EAST
SALT LAKE CITY, UT 84102
Phone: (801) 575-8800
Fax: (801) 531-9850
WWW: www.vcbo.com

DFCM CODE COMPLIANCE STAMP

# Student Activity Center
## Stromberg Addition - BID SET
Weber State University
3750 Harrison Blvd. Ogden, UT 84408

| Rev # | Date | Description |
|---|---|---|

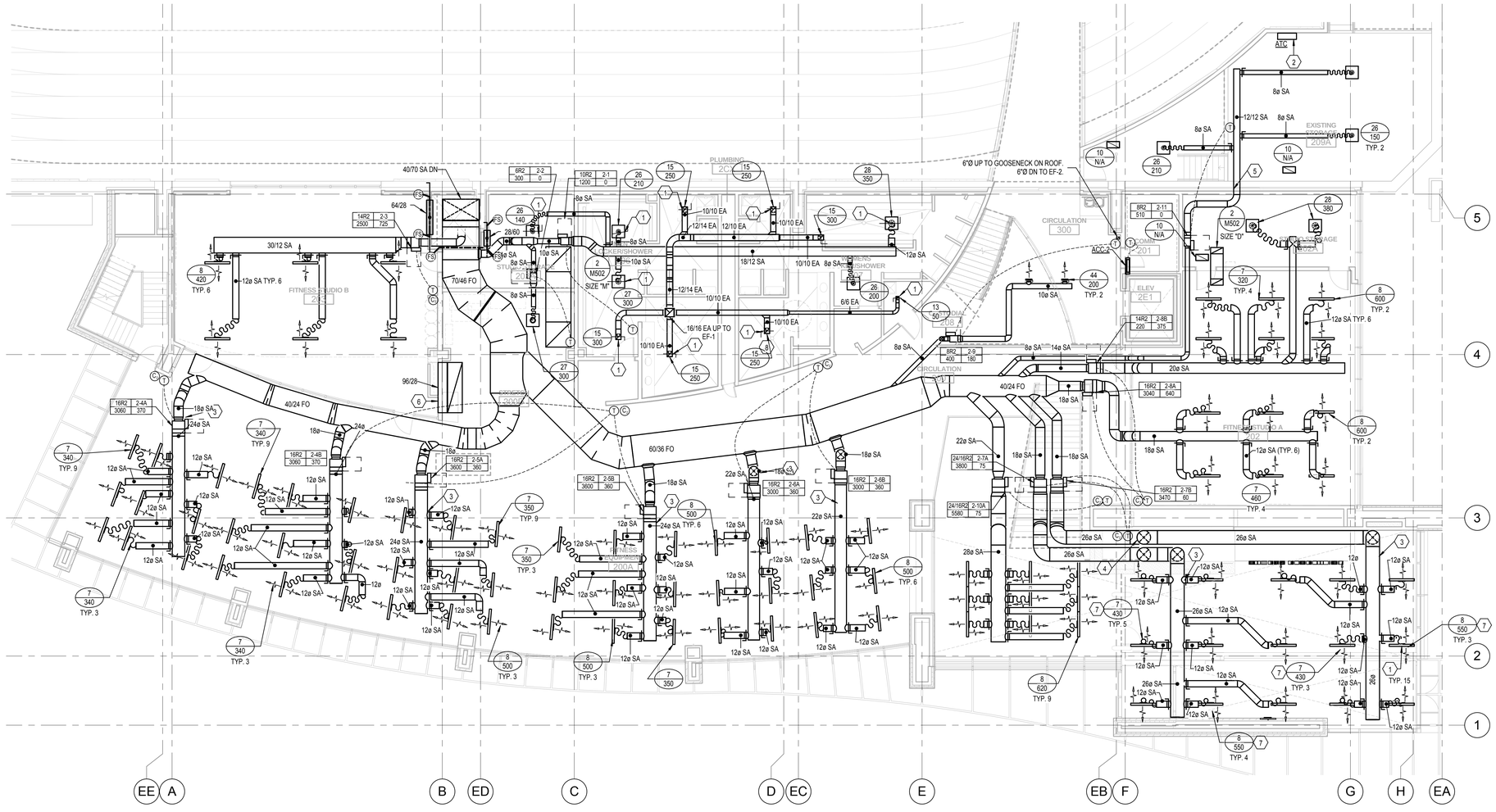
Seal: Shawn G. Colvin, P.E., 167524, 10/3/2012, Professional Engineer, State of Utah

Colvin Engineering Associates, Inc.
244 West 300 North Suite 200
Salt Lake City, Utah 84103
Phone: (801) 322-2400 / Fax: (801) 322-2416

Job # 2012-033.00
CAD File
Drawn TCF Checked BRC
Date 10.03.2012
Owner # DFCM #12031810

SECOND FLOOR AREA B MECHANICAL PLAN

M122.1




1 SECOND FLOOR AREA C MECHANICAL PLAN

SCALE: 1/8" = 1'-0"

6' 0' 4' 8' 12' 16'

## KEYED NOTES

1 PROVIDE DIFFUSER / GRILL WITH OPPOSED BLADE DAMPER IN FACE FOR BALANCING.
2 NEW LOCATION OF RELOCATED ATC PANEL AND CONTROLS.
3 DUCT TO RUN UP IN BETWEEN TRUSS SPACE.
4 DUCT TO RISE UP IN FURRED SPACE BELOW TRUSS.
5 PROVIDE EXPANSION JOINT AT THIS LOCATION.
6 TRANSFER DUCT TO PENETRATE THOUGH WALL WITH 96/28 OPENING NO GRILLE REQUIRED. OTHER SIDE TO OPEN ABOVE CEILING WITH 96/24 OPENING.
7 DIFFUSER FINISH IN THIS ARE TO BE SATIN ALUMINUM TO MATCH ARCHITECTURAL CEILING, SUBMIT SAMPLE OF COLOR TO ARCHITECT FOR REVIEW.
8

## GENERAL NOTES

A. NO DUCT OR PIPE TO RUN OVER ELECTRICAL PANEL.
B. FIRE/SMOKE DAMPER MOTORS AND MOTORIZED DAMPERS TO BE MOUNTED TO SIDE OF NEAREST CEILING ACCESS HATCH OR OPEN CEILING AREA. PROVIDE 24" X 24" DUCT ACCESS AS REQUIRED. TYPICAL.
C. COORDINATE DUCTWORK AND EQUIPMENT WITH ALL TRADES.
D. ROUTE 3/4" CONDENSATE DRAINS FOR ALL REQUIRED MECHANICAL EQUIPMENT TO NEAREST FLOOR DRAIN OR SERVICE SINK.
E. BUILDING EXPANSION JOINT AT GRID 5. PROVIDE FLEXIBLE CONNECTION TO MEET REQUIREMENTS.
F. PROVIDE A WATER TIGHT PAN THAT IS 2" DEEP AND 6" LARGER THAN ANY PLUMBING, MECHANICAL PIPING, OR MECHANICAL EQUIPMENT INSTALLED OVER ANY ELECTRICAL EQUIPMENT OR GEAR THAT IS UNAVOIDABLE.
G. DIFFUSERS ALONG GLASS TO BLOW TOWARD GLASS.

Copyright (C) 2012 by Colvin Engineering Associates, Inc. Salt Lake City, Utah. All rights reserved. Unauthorized copying and/or use is illegal and subject to prosecution.

10/2/2012 4:00:46 PM

VCBO
ARCHITECTURE
VALENTINER
CRANE
BRUNJES
ONYON

VCBO ARCHITECTURE
524 SOUTH 600 EAST
SALT LAKE CITY, UT 84102
Phone: (801) 575-8800
Fax: (801) 531-9850
www: www.vcbo.com

DFCM CODE COMPLIANCE STAMP

# Student Activity Center
## Stromberg Addition - BID SET
Weber State University
3750 Harrison Blvd. Ogden, UT 84408

| Rev # | Date | Description |
|---|---|---|

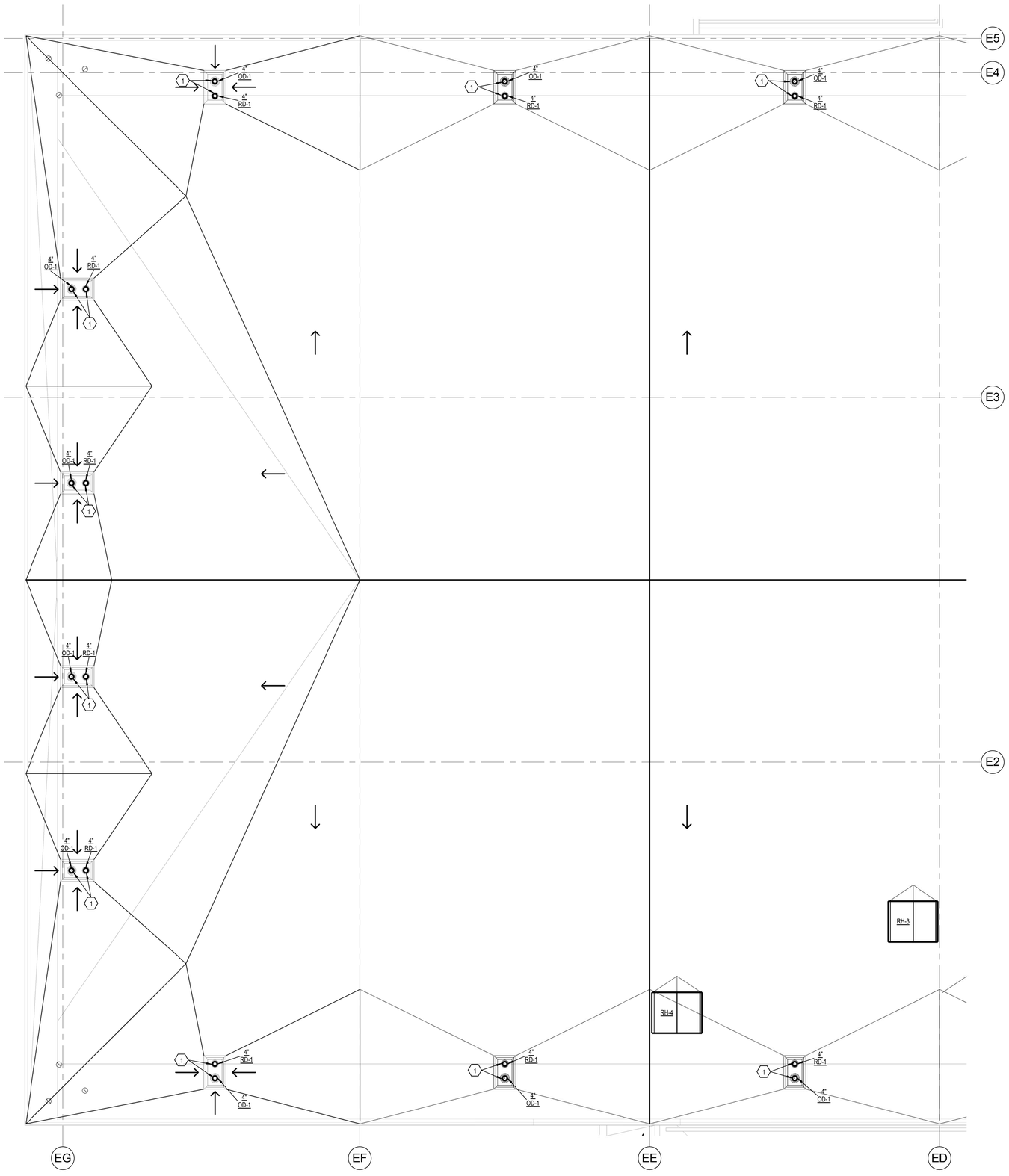
Stephen G. Colvin
167524
10/3/2012
REGISTERED PROFESSIONAL ENGINEER
State of Utah

Colvin Engineering Associates, Inc.
244 West 300 North Suite 200
Salt Lake City, Utah 84103
Phone: (801) 322-2400 / Fax: (801) 322-2416

Job # 2012-033.00
CAD File
Drawn TCF Checked BRC
Date 10.03.2012
Owner # DFCM #12031810

SECOND FLOOR AREA
C MECHANICAL PLAN

M123.1




## KEYED NOTES

1 DEMO EXISTING ROOF/OVERFLOW DRAIN AND PROVIDE NEW ROOF/OVERFLOW DRAIN AND CONNECT TO EXISTING PIPING

1 ROOF AREA A MECHANICAL AND PLUMBING PLAN

SCALE: 1/8" = 1'-0"

6' 0' 4' 8' 12' 16'

Copyright (C) 2012 by Colvin Engineering Associates, Inc. Salt Lake City, Utah. All rights reserved. Unauthorized copying and/or use is illegal and subject to prosecution.

10/2/2012 4:01:07 PM

VCBO
ARCHITECTURE
VALENTINER
CRANE
BRUNJES
ONYON

VCBO ARCHITECTURE
524 SOUTH 600 EAST
SALT LAKE CITY, UT 84102
Phone: (801) 575-8800
Fax: (801) 531-9850
WWW: www.vcbo.com

DFCM CODE COMPLIANCE STAMP

# Student Activity Center
## Stromberg Addition - BID SET
Weber State University
3750 Harrison Blvd. Ogden, UT 84408

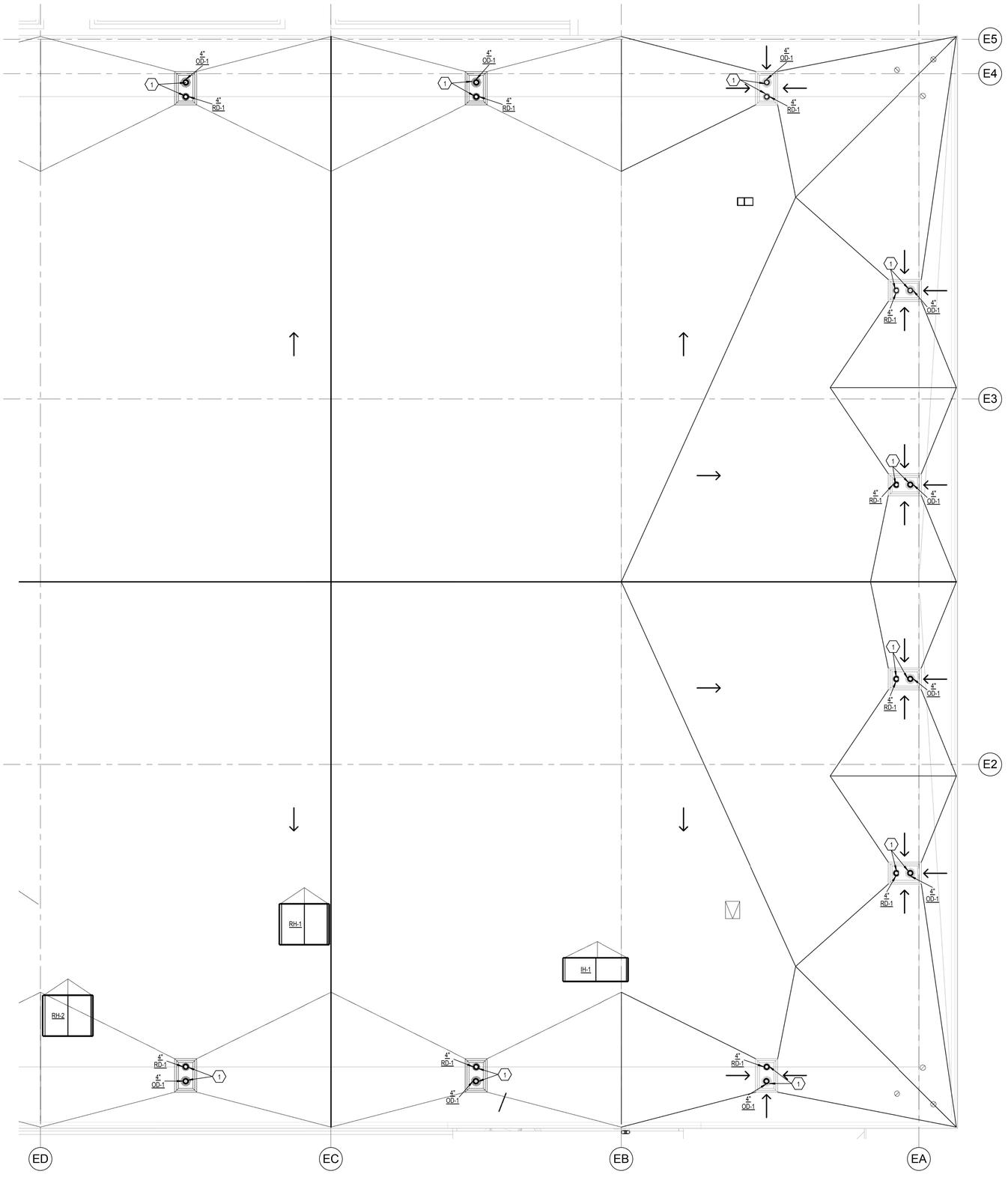
| Rev # | Date | Description |
|---|---|---|

Colvin Engineering Associates, Inc.
244 West 300 North Suite 200
Salt Lake City, Utah 84103
Phone: (801) 322-2400 / Fax: (801) 322-2416

Job # 2012-033.00
CAD File
Drawn TCF Checked BRC
Date 10.03.2012
Owner # DFCM #12031810

ROOF AREA A
MECHANICAL AND
PLUMBING ROOF PLAN

M141.1




## KEYED NOTES

1 DEMO EXISTING ROOF/OVERFLOW DRAIN AND PROVIDE NEW ROOF/OVERFLOW DRAIN AND CONNECT TO EXISTING PIPING

1 ROOF AREA B MECHANICAL AND PLUMBING PLAN

SCALE: 1/8" = 1'-0"

6' 0' 4' 8' 12' 16'

Copyright (C) 2012 by Colvin Engineering Associates, Inc. Salt Lake City, Utah. All rights reserved. Unauthorized copying and/or use is illegal and subject to prosecution.

10/2/2012 4:01:17 PM

VCBO
ARCHITECTURE
VALENTINER
CRANE
BRUNJES
ONYON

VCBO ARCHITECTURE
524 SOUTH 600 EAST
SALT LAKE CITY, UT 84102
Phone: (801) 575-8800
Fax: (801) 531-9850
WWW: www.vcbo.com

DFCM CODE COMPLIANCE STAMP

# Student Activity Center
## Stromberg Addition - BID SET
Weber State University
3750 Harrison Blvd. Ogden, UT 84408

| Rev # | Date | Description |
|---|---|---|

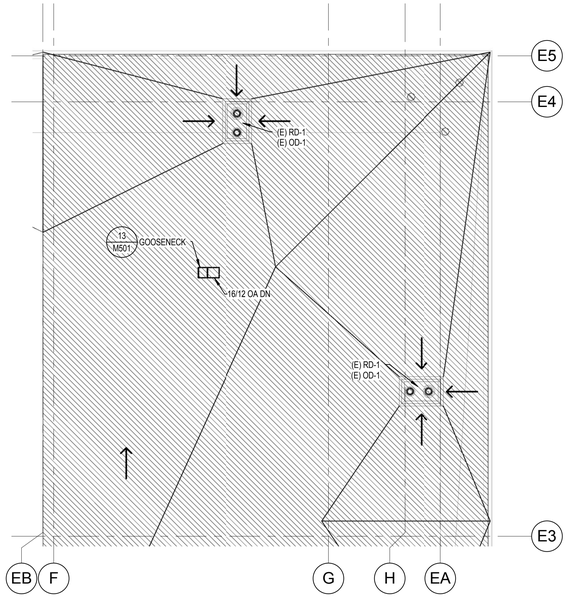
Stephen G. Colvin
167524
10/3/2012
Registered Professional Engineer
State of Utah

Colvin Engineering Associates, Inc.
244 West 300 North Suite 200
Salt Lake City, Utah 84103
Phone: (801) 322-2400 / Fax: (801) 322-2416

Job # 2012-033.00
CAD File
Drawn TCF Checked BRC
Date 10.03.2012
Owner # DFCM #12031810

ROOF AREA B
MECHANICAL AND
PLUMBING ROOF PLAN

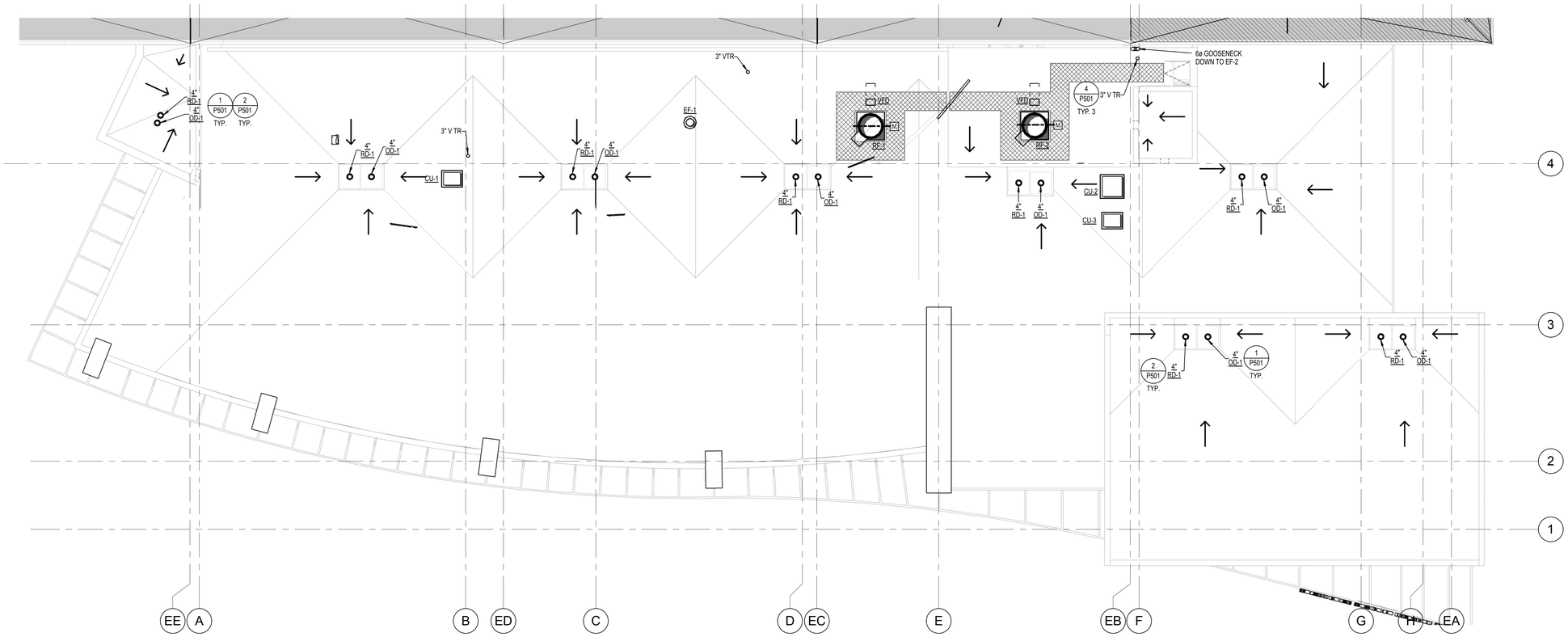
M142.1




## 2 ROOF S.E. CORNER MECHANICAL AND PLUMBING PLAN

SCALE: 1/8" = 1'-0"

6' 0' 4' 8' 12' 16'




## 1 ROOF AREA C MECHANICAL AND PLUMBING PLAN

SCALE: 1/8" = 1'-0"

6' 0' 4' 8' 12' 16'

## KEYED NOTES

## GENERAL NOTES

A. NO DUCT OR PIPE TO RUN OVER ELECTRICAL PANEL.

B. FIRE/SMOKE DAMPER MOTORS AND MOTORIZED DAMPERS TO BE MOUNTED TO SIDE OF NEAREST CEILING ACCESS HATCH OR OPEN CEILING AREA. PROVIDE 24" X 24" DUCT ACCESS AS REQUIRED. TYPICAL.

C. COORDINATE DUCTWORK AND EQUIPMENT WITH ALL TRADES.

D. ROUTE 3/4" CONDENSATE DRAINS FOR ALL REQUIRED MECHANICAL EQUIPMENT TO NEAREST FLOOR DRAIN OR SERVICE SINK.

E. BUILDING EXPANSION JOINT AT GRID 5. PROVIDE FLEXIBLE CONNECTION TO MEET REQUIREMENTS.

F. PROVIDE A WATER TIGHT PAN THAT IS 2" DEEP AND 6" LARGER THAN ANY PLUMBING, MECHANICAL PIPING, OR MECHANICAL EQUIPMENT INSTALLED OVER ANY ELECTRICAL EQUIPMENT OR GEAR THAT IS UNAVOIDABLE.

G. DIFFUSERS ALONG GLASS TO BLOW TOWARD GLASS.

Copyright (C) 2012 by Colvin Engineering Associates, Inc. Salt Lake City, Utah. All rights reserved. Unauthorized copying and/or use is illegal and subject to prosecution.

10/2/2012 4:01:24 PM

VCBO
ARCHITECTURE
VALENTINER
CRANE
BRUNJES
ONYON

VCBO ARCHITECTURE
524 SOUTH 600 EAST
SALT LAKE CITY, UT 84102
Phone: (801) 575-8800
Fax: (801) 531-9850
WWW: www.vcbo.com

DFCM CODE COMPLIANCE STAMP

# Student Activity Center
## Stromberg Addition - BID SET
Weber State University
3750 Harrison Blvd. Ogden, UT 84408

| Rev # | Date | Description |
|---|---|---|

Stephen G. Colvin
Registered Professional Engineer
167524
10/9/2012
State of Utah

Colvin Engineering Associates, Inc.
244 West 300 North Suite 200
Salt Lake City, Utah 84103
Phone: (801) 322-2400 / Fax: (801) 322-2416

Job # 2012-033.00
CAD File
Drawn TCF Checked BRC
Date 10.03.2012
Owner # DFCM #12031810

ROOF AREA C MECHANICAL AND PLUMBING ROOF PLAN

M143.1

Copyright (C) 2012 by Colvin Engineering Associates, Inc. Salt Lake City, Utah. All rights reserved. Unauthorized copying and/or use is illegal and subject to prosecution.

## KEYED NOTES

1 REFER TO DETAIL 1/ M503 FOR REFRIGERANT PIPING SCHEMATIC. CONTRACTOR TO COORDINATE PIPING WITH DETAIL AND MANUFACTURERS REQUIREMENTS.

2 OPEN VALVE SLIGHTLY TO ALLOW 2 GPM TO MAINTAIN FLOW.

3 PROVIDE EXPANSION JOINT AT THIS LOCATION.

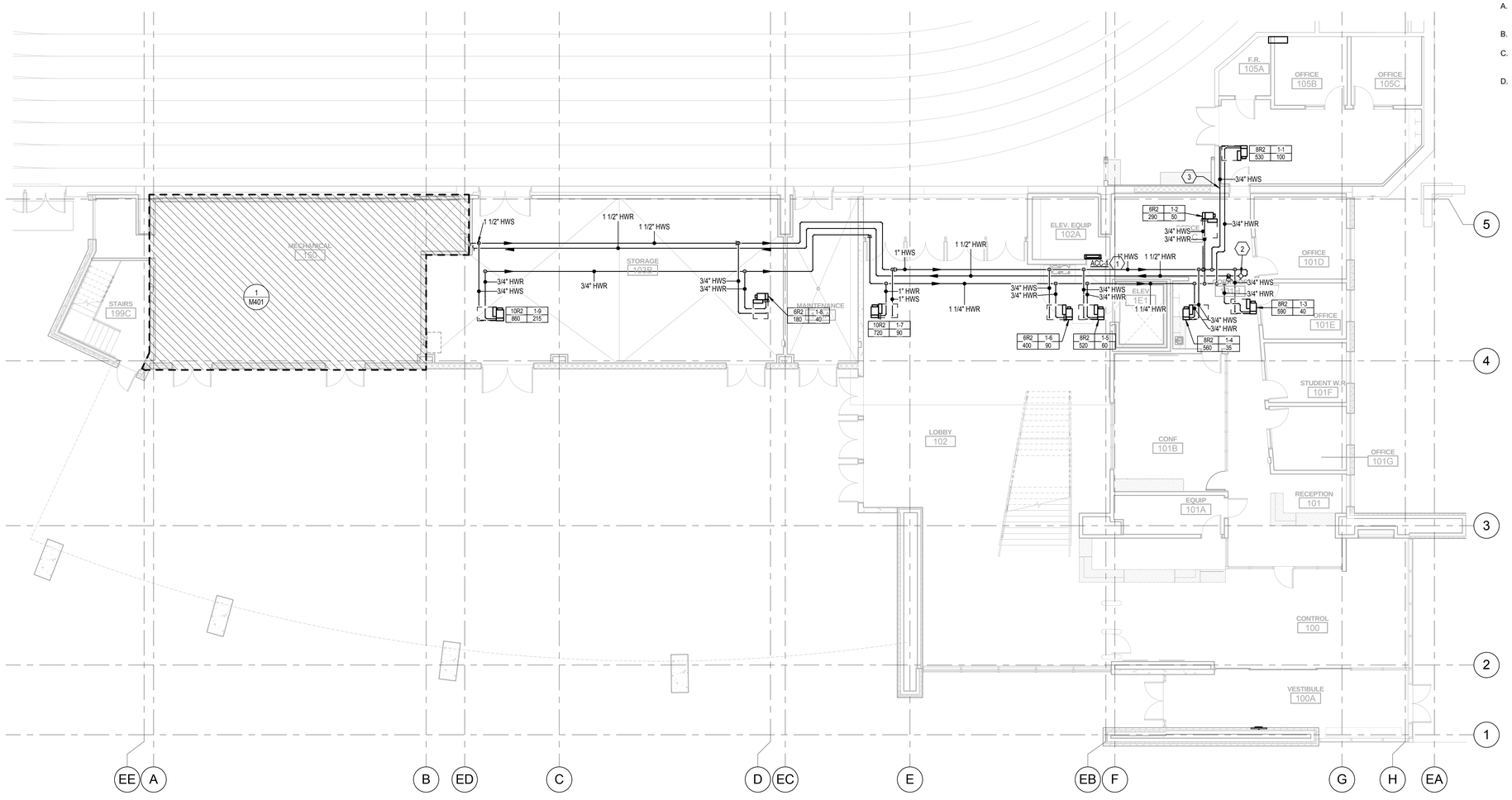
## GENERAL NOTES

A. CONTRACTOR TO COORDINATE HEATING WATER SUPPLY AND RETURN PIPE ROUTING WITH ALL OTHER TRADES.

B. SEE REQUIRED DETAIL OF PIPE SLEEVE FOR INSULATED PIPE THRU WALL ON 11/ P501.

C. CONTRACTOR TO COORDINATE THE ELEVATOR EQUIPMENT AND ELECTRICAL ROOM AREAS TO NOT CONTAIN ANY PIPE ROUTING ABOVE.

D. BUILDING EXPANSION JOINT AT GRID 5. PROVIDE FLEXIBLE CONNECTION TO MEET REQUIREMENTS.




1 FIRST FLOOR AREA C MECHANICAL PIPING PLAN

SCALE: 1/8" = 1'-0"

6' 0' 4' 8' 12' 16'

VCBO ARCHITECTURE
524 SOUTH 600 EAST
SALT LAKE CITY, UT 84102
Phone: (801) 575-8800
Fax: (801) 531-9850
WWW: www.vcbo.com

DFCM CODE COMPLIANCE STAMP

# Student Activity Center
## Stromberg Addition - BID SET
Weber State University
3750 Harrison Blvd. Ogden, UT 84408

| Rev # | Date | Description |
|---|---|---|

Stephen C. Colvin 187524 10/3/2012 Registered Professional Engineer State of Utah

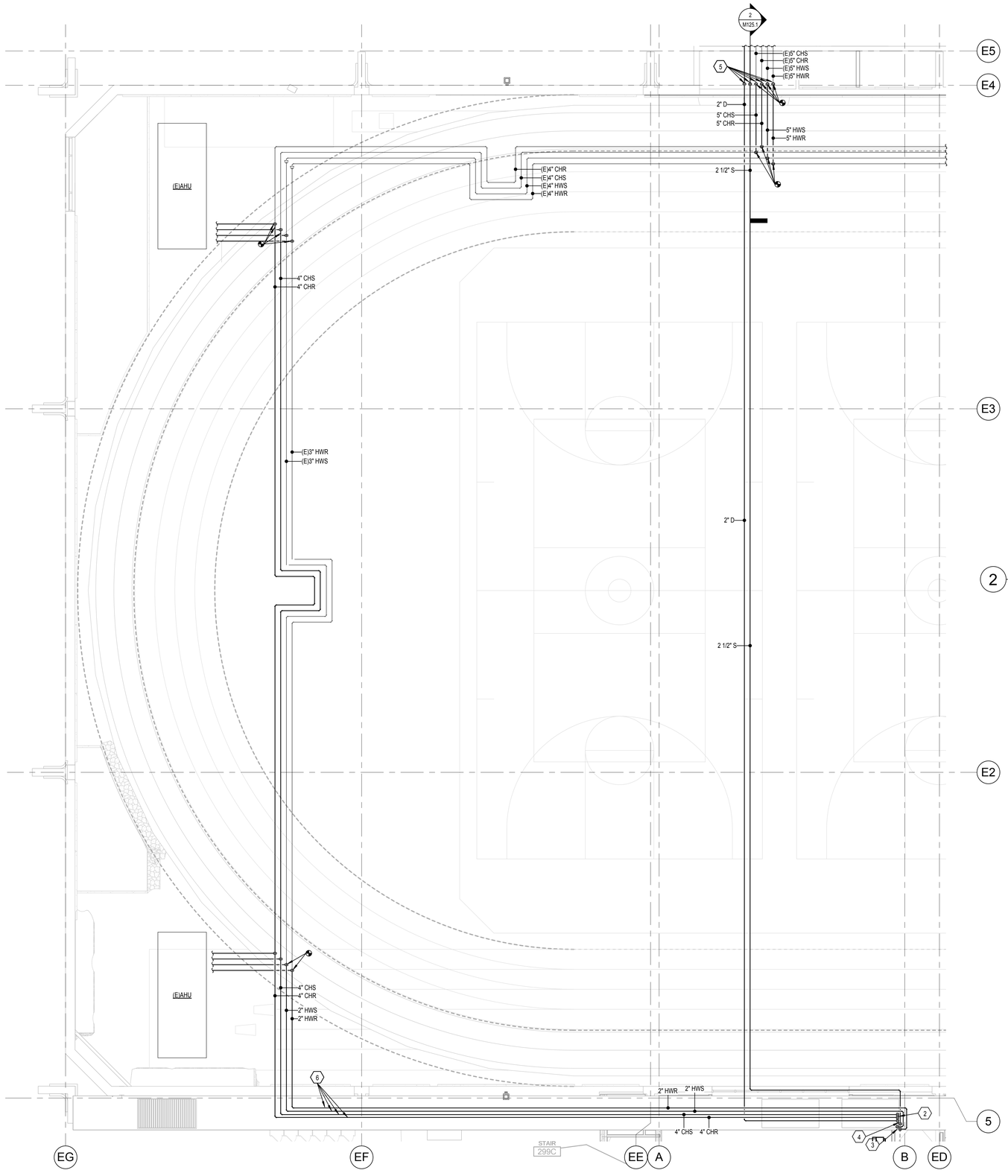
Colvin Engineering Associates, Inc.
244 West 300 North Suite 200
Salt Lake City, Utah 84103
Phone: (801) 322-2400 / Fax: (801) 322-2416

Job # 2012-033.00
CAD File
Drawn TCF Checked BRC
Date 10.03.2012
Owner # DFCM #12031810

FIRST FLOOR AREA C MECHANICAL PIPING PLAN

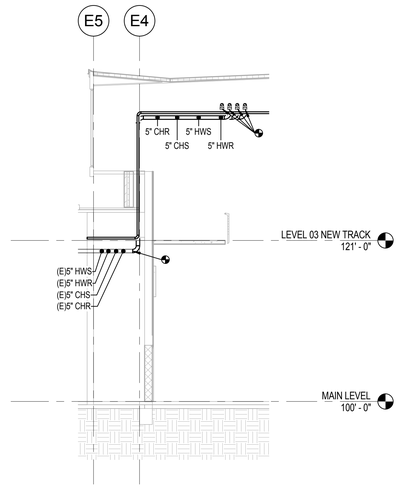
M117.1

10/2/2012 4:00:31 PM




1 SECOND FLOOR AREA A MECHANICAL PIPING PLAN

SCALE: 1/8" = 1'-0"




2 TRACK AREA MECHANICAL PIPING SECTION VIEW

SCALE: 1/8" = 1'-0"

## KEYED NOTES

1. PROVIDE NEW 5" CHILLED WATER SUPPLY AND CHILLED WATER RETURN PIPING TO AND FROM P-3. REFER TO DETAIL 2/ M503 FOR PUMP PIPING DETAIL.
2. CHILLED WATER SUPPLY AND CHILLED WATER RETURN TO ROUTE DOWN SHAFT. COORDINATE WITH ALL TRADES PRIOR TO INSTALL.
3. HEATING WATER SUPPLY AND HEATING WATER RETURN TO ROUTE DOWN SHAFT. COORDINATE WITH ALL TRADES PRIOR TO INSTALL.
4. STEAM AND CONDENSATE TO DROP IN SHAFT AS SHOWN. COORDINATE WITH ALL TRADES PRIOR TO INSTALL.
5. RISE PIPE IN NEW FURRED SPACE. FURRED SPACE OPEN TO WARM AREA BELOW.
6. KEEP WALKWAY CLEAR

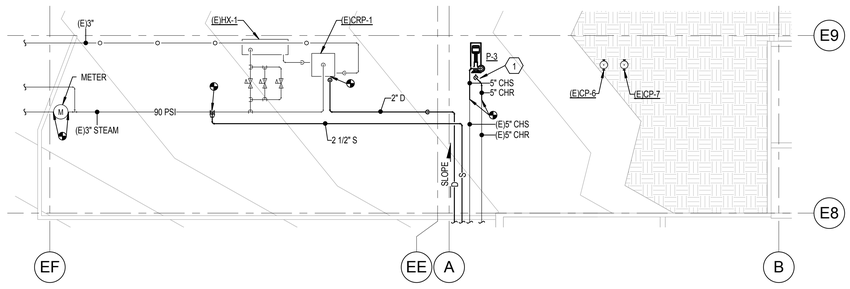
## GENERAL NOTES

A. CONTRACTOR TO COORDINATE HEATING WATER SUPPLY AND RETURN PIPE ROUTING WITH ALL OTHER TRADES.

B. SEE REQUIRED DETAIL OF PIPE SLEEVE FOR INSULATED PIPE THRU WALL ON 11/ P501.

C. CONTRACTOR TO COORDINATE THE ELEVATOR EQUIPMENT AND ELECTRICAL ROOM AREAS TO NOT CONTAIN ANY PIPE ROUTING ABOVE.

D. BUILDING EXPANSION JOINT AT GRID 5. PROVIDE FLEXIBLE CONNECTION TO MEET REQUIREMENTS.




3 SECOND FLOOR MECHANICAL ROOM PLAN

SCALE: 1/8" = 1'-0"

Copyright (C) 2012 by Colvin Engineering Associates, Inc. Salt Lake City, Utah. All rights reserved. Unauthorized copying and/or use is illegal and subject to prosecution.

10/2/2012 4:00:50 PM

VCBO ARCHITECTURE
524 SOUTH 600 EAST
SALT LAKE CITY, UT 84102
Phone: (801) 575-8800
Fax: (801) 531-9850
www: www.vcbo.com

DFCM CODE COMPLIANCE STAMP

# Student Activity Center
## Stromberg Addition - BID SET
Weber State University
3750 Harrison Blvd. Ogden, UT 84408

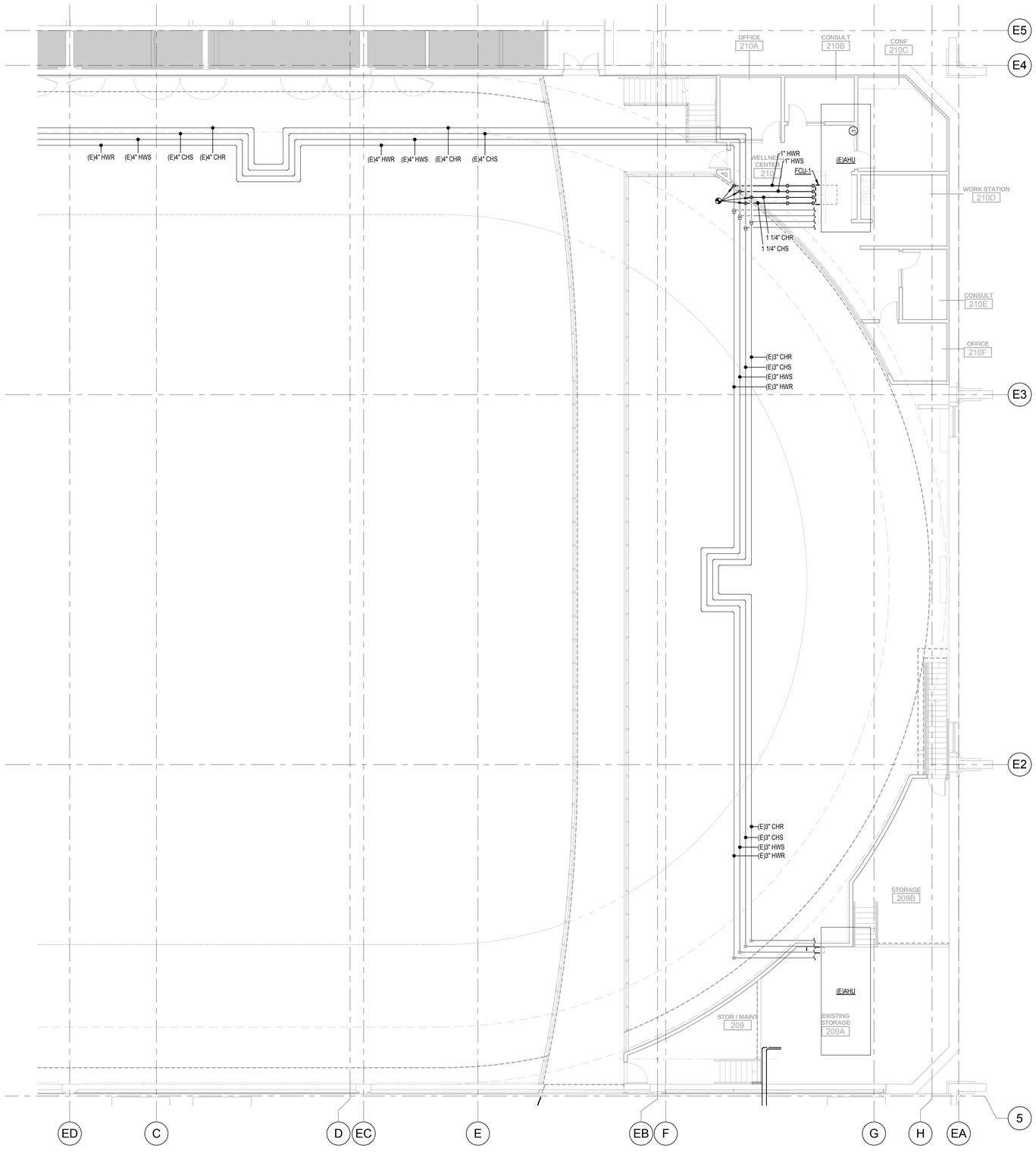
| Rev # | Date | Description |
|---|---|---|

Colvin Engineering Associates, Inc.
244 West 300 North Suite 200
Salt Lake City, Utah 84103
Phone: (801) 322-2400 / Fax: (801) 322-2416

Job # 2012-033.00
CAD File
Drawn TCF Checked BRC
Date 10.03.2012
Owner # DFCM #12031810

SECOND FLOOR AREA A MECHANICAL PIPING PLAN

M125.1




1 SECOND FLOOR AREA B MECHANICAL PIPING PLAN

SCALE: 1/8" = 1'-0"

6' 0' 4' 8' 12' 16'

## KEYED NOTES

## GENERAL NOTES

A. CONTRACTOR TO COORDINATE HEATING WATER SUPPLY AND RETURN PIPE ROUTING WITH ALL OTHER TRADES.

B. SEE REQUIRED DETAIL OF PIPE SLEEVE FOR INSULATED PIPE THRU WALL ON 11/ P501.

C. CONTRACTOR TO COORDINATE THE ELEVATOR EQUIPMENT AND ELECTRICAL ROOM AREAS TO NOT CONTAIN ANY PIPE ROUTING ABOVE.

D. BUILDING EXPANSION JOINT AT GRID 5. PROVIDE FLEXIBLE CONNECTION TO MEET REQUIREMENTS.

Copyright (C) 2012 by Colvin Engineering Associates, Inc. Salt Lake City, Utah. All rights reserved. Unauthorized copying and/or use is illegal and subject to prosecution.

10/2/2012 4:00:52 PM

VCBO
ARCHITECTURE
VALENTINER
CRANE
BRUNJES
ONYON

VCBO ARCHITECTURE
524 SOUTH 600 EAST
SALT LAKE CITY, UT 84102
Phone: (801) 575-8800
Fax: (801) 531-9850
WWW: www.vcbo.com

DFCM CODE COMPLIANCE STAMP

# Student Activity Center
## Stromberg Addition - BID SET
Weber State University
3750 Harrison Blvd. Ogden, UT 84408

| Rev # | Date | Description |
|---|---|---|

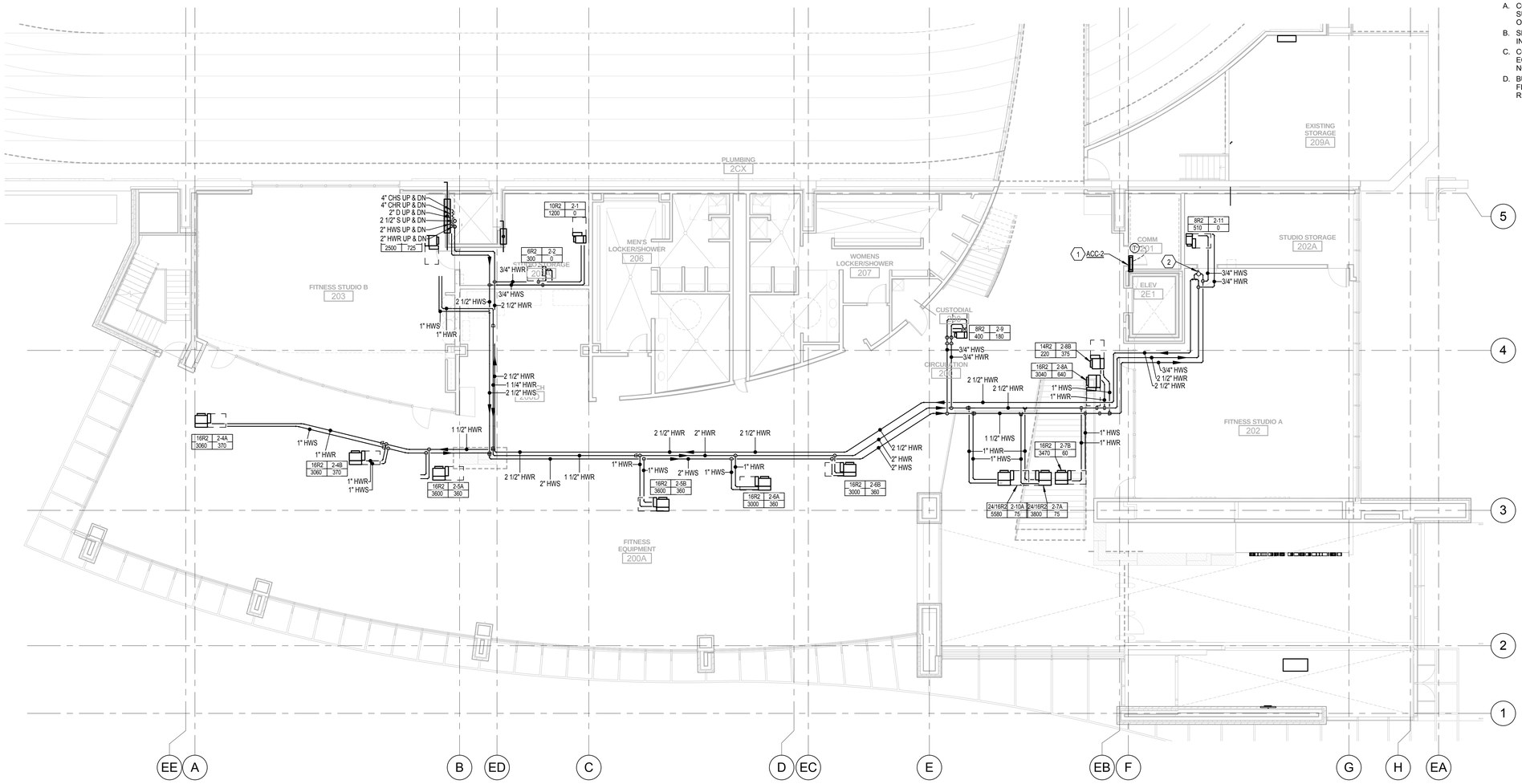
Seal: Shawn C. Colvin, 187524, 10/3/2012, Registered Professional Engineer, State of Utah

Colvin Engineering Associates, Inc.
244 West 300 North Suite 200
Salt Lake City, Utah 84103
Phone: (801) 322-2400 / Fax: (801) 322-2416

Job # 2012-033.00
CAD File
Drawn TCF Checked BRC
Date 10.03.2012
Owner # DFCM #12031810

SECOND FLOOR AREA B MECHANICAL PIPING PLAN

M126.1




## KEYED NOTES

1 REFER TO DETAIL 1/ M503 FOR REFRIGERANT PIPING SCHEMATIC. CONTRACTOR TO COORDINATE PIPING WITH DETAIL AND MANUFACTURERS REQUIREMENTS.

2 OPEN VALVE SLIGHTLY TO ALLOW 2 GPM TO MAINTAIN FLOW.

## GENERAL NOTES

A. CONTRACTOR TO COORDINATE HEATING WATER SUPPLY AND RETURN PIPE ROUTING WITH ALL OTHER TRADES.

B. SEE REQUIRED DETAIL OF PIPE SLEEVE FOR INSULATED PIPE THRU WALL ON 11/ P501.

C. CONTRACTOR TO COORDINATE THE ELEVATOR EQUIPMENT AND ELECTRICAL ROOM AREAS TO NOT CONTAIN ANY PIPE ROUTING ABOVE.

D. BUILDING EXPANSION JOINT AT GRID 5. PROVIDE FLEXIBLE CONNECTION TO MEET REQUIREMENTS.

## 1 SECOND FLOOR AREA C MECHANICAL PIPING PLAN

SCALE: 1/8" = 1'-0"

6' 0' 4' 8' 12' 16'

Copyright (C) 2012 by Colvin Engineering Associates, Inc. Salt Lake City, Utah. All rights reserved. Unauthorized copying and/or use is illegal and subject to prosecution.

10/2/2012 4:00:56 PM

VCBO ARCHITECTURE
524 SOUTH 600 EAST
SALT LAKE CITY, UT 84102
Phone: (801) 575-8800
Fax: (801) 531-9850
www: www.vcbo.com

DFCM CODE COMPLIANCE STAMP

# Student Activity Center
## Stromberg Addition - BID SET
Weber State University
3750 Harrison Blvd. Ogden, UT 84408

| Rev # | Date | Description |
|---|---|---|

Colvin Engineering Associates, Inc.
244 West 300 North Suite 200
Salt Lake City, Utah 84103
Phone: (801) 322-2400 / Fax: (801) 322-2416

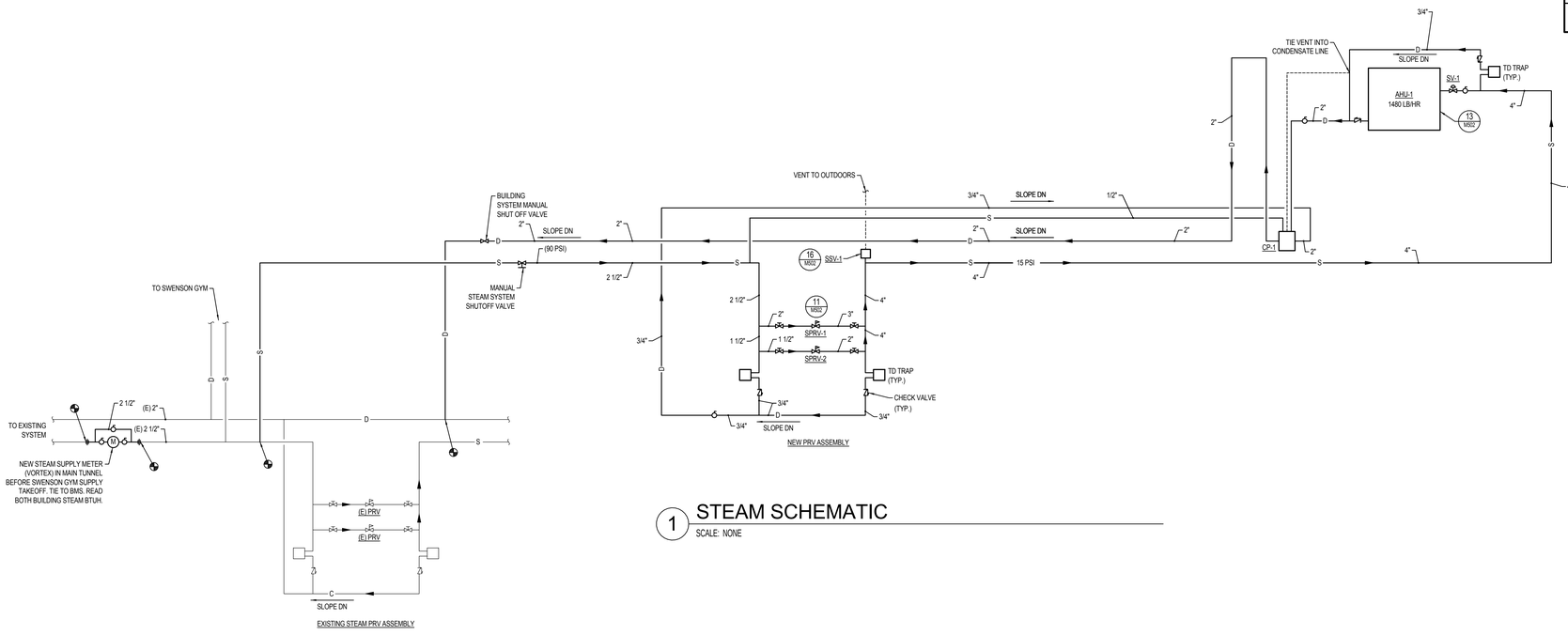
Job # 2012-033.00
CAD File
Drawn TCF Checked BRC
Date 10.03.2012
Owner # DFCM #12031810

SECOND FLOOR AREA C MECHANICAL PIPING PLAN

M127.1

Copyright (C) 2012 by Colvin Engineering Associates, Inc. Salt Lake City, Utah. All rights reserved. Unauthorized copying and/or use is illegal and subject to prosecution.

| STEAM PIPE SIZING CRITERIA | | |
|---|---|---|
| PIPE SIZE @ 15 PSIG | MIN. VELOCITY (80 FT/S) CAPACITY (LBH) | MAX. VELOCITY (120 FT/S) CAPACITY (LBH) |
| 1" | 105 | 160 |
| 1 1/4" | 170 | 225 |
| 1 1/2" | 235 | 385 |
| 2" | 450 | 715 |
| 2 1/2" | 705 | 1,050 |
| 3" | 1000 | 1,485 |
| 4" | 1700 | 2,650 |
| 6" | 3,900 | 5,775 |
| 8" | 7,150 | 11,000 |
| 10" | 11,450 | 17,100 |




1 STEAM SCHEMATIC

SCALE: NONE

VCBO
ARCHITECTURE
VALENTINER
CRANE
BRUNJES
ONYON

VCBO ARCHITECTURE
524 SOUTH 600 EAST
SALT LAKE CITY, UT 84102
Phone: (801) 575-8800
Fax: (801) 531-9850
WWW: www.vcbo.com

DFCM CODE COMPLIANCE STAMP

# Student Activity Center
## Stromberg Addition - BID SET
Weber State University
3750 Harrison Blvd. Ogden, UT 84408

| Rev # | Date | Description |
|---|---|---|

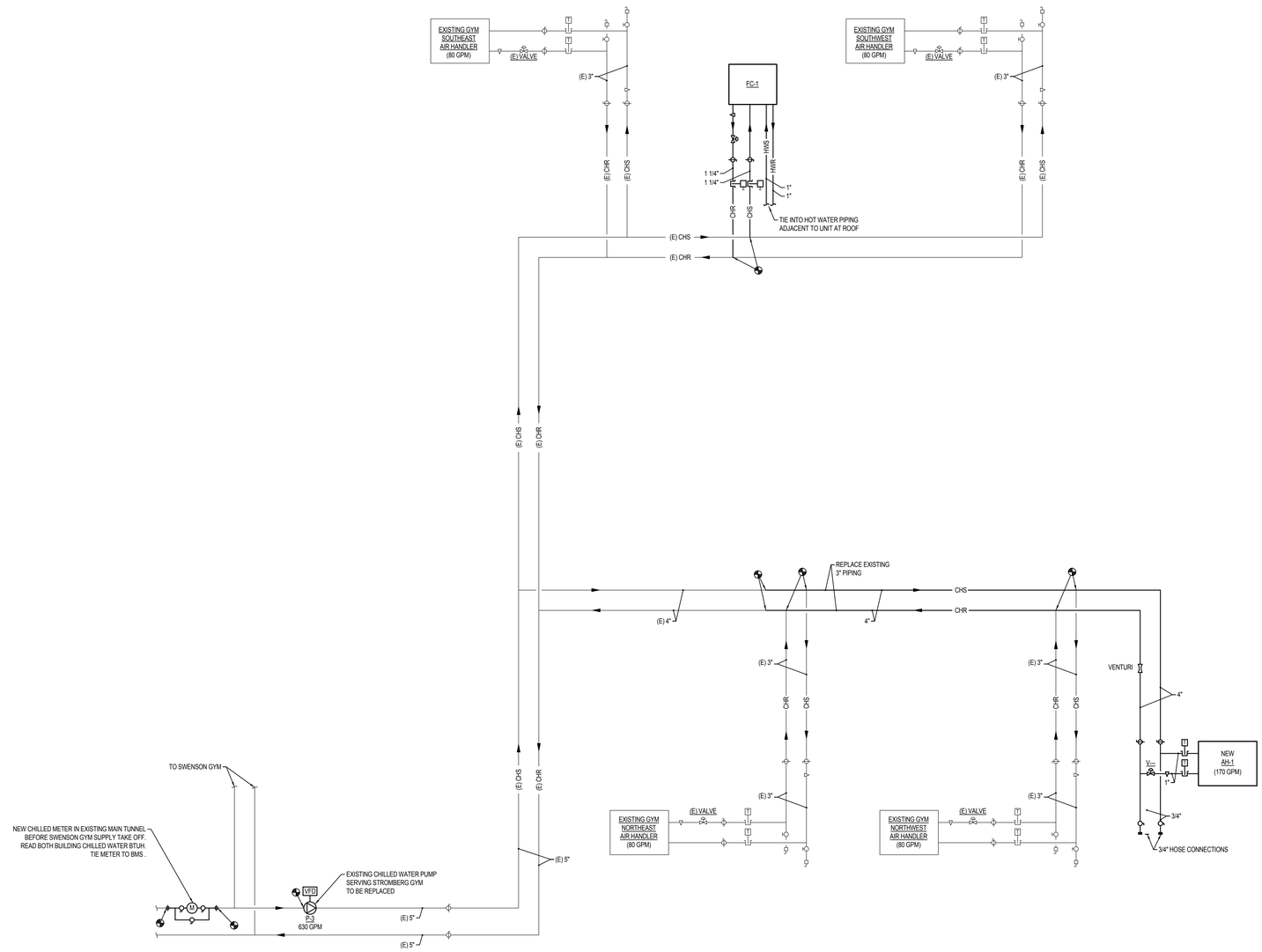
Colvin Engineering Associates, Inc.
244 West 300 North Suite 200
Salt Lake City, Utah 84103
Phone: (801) 322-2400 / Fax: (801) 322-2416

Job # 2012-033.00
CAD File
Drawn TCF Checked BRC
Date 10.03.2012
Owner # DFCM #12031810

SCHEMATICS

M201

10/2/2012 4:01:24 PM




1 CHILLED WATER SCHEMATIC

SCALE: NONE

Copyright (C) 2012 by Colvin Engineering Associates, Inc. Salt Lake City, Utah. All rights reserved. Unauthorized copying and/or use is illegal and subject to prosecution.

10/2/2012 4:01:25 PM

VCBO
ARCHITECTURE
VALENTINER
CRANE
BRUNJES
ONYON

VCBO ARCHITECTURE
524 SOUTH 600 EAST
SALT LAKE CITY, UT 84102
Phone: (801) 575-8800
Fax: (801) 531-9850
WWW: www.vcbo.com

DFCM CODE COMPLIANCE STAMP

# Student Activity Center
## Stromberg Addition - BID SET
Weber State University
3750 Harrison Blvd. Ogden, UT 84408

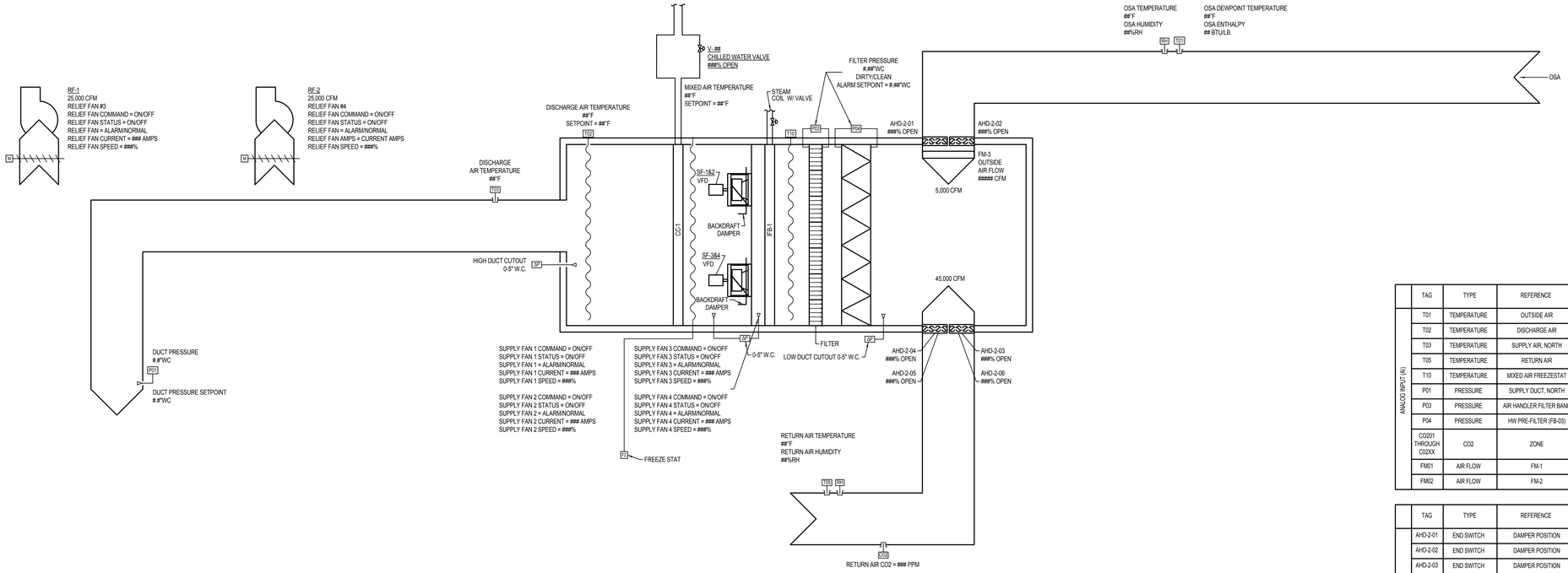
| Rev # | Date | Description |
|---|---|---|

Colvin Engineering Associates, Inc.
244 West 300 North Suite 200
Salt Lake City, Utah 84103
Phone: (801) 322-2400 / Fax: (801) 322-2416

Job # 2012-033.00
CAD File
Drawn TCF Checked BRC
Date 10.03.2012
Owner # DFCM #12031810

SCHEMATICS

M202




1 AHU-1 SCHEMATIC

SCALE: NONE

ROOM 102 CO2 = ### PPM
ROOM 101B CO2 = ### PPM
ROOM 101 CO2 = ### PPM
ROOM 203 CO2 = ### PPM
ROOM 202 CO2 = ### PPM
ROOM 200B CO2 = ### PPM
ROOM 200C CO2 = ### PPM
ROOM 200D CO2 = ### PPM

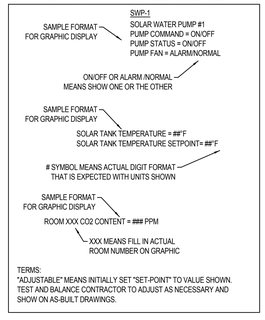
$CO_2$ TYP.

| | TAG | TYPE | REFERENCE | ACTION |
|---|---|---|---|---|
| ANALOG INPUT (AI) | T01 | TEMPERATURE | OUTSIDE AIR | 1 |
| | T02 | TEMPERATURE | DISCHARGE AIR | 2 |
| | T03 | TEMPERATURE | SUPPLY AIR, NORTH | 3 |
| | T05 | TEMPERATURE | RETURN AIR | 1 |
| | T10 | TEMPERATURE | MIXED AIR FREEZESTAT | 4 |
| | P01 | PRESSURE | SUPPLY DUCT, NORTH | 1 |
| | P03 | PRESSURE | AIR HANDLER FILTER BANK | 5 |
| | P04 | PRESSURE | HVI PRE-FILTER (FB-03) | 5 |
| | CO201 THROUGH C02XX | CO2 | ZONE | 6 |
| | FM01 | AIR FLOW | FM-1 | 7 |
| | FM02 | AIR FLOW | FM-2 | 7 |

| | TAG | TYPE | REFERENCE | ACTION |
|---|---|---|---|---|
| DIGITAL INPUT (DI) | AHD-2-01 | END SWITCH | DAMPER POSITION | 8 |
| | AHD-2-02 | END SWITCH | DAMPER POSITION | 8 |
| | AHD-2-03 | END SWITCH | DAMPER POSITION | 8 |
| | AHD-2-04 | END SWITCH | DAMPER POSITION | 8 |
| | AHD-2-05 | END SWITCH | DAMPER POSITION | 8 |
| | AHD-2-06 | END SWITCH | DAMPER POSITION | 8 |
| | AHD-2-07 | END SWITCH | DAMPER POSITION | 8 |
| | CD-01 | END SWITCH | DAMPER POSITION | 8 |
| | CD-02 | END SWITCH | DAMPER POSITION | 8 |
| | SF-1 | CT | FAN STATUS | 8 |
| | SF-2 | CT | FAN STATUS | 8 |
| | SF-3 | CT | FAN STATUS | 8 |
| | SF-4 | CT | FAN STATUS | 8 |
| | RF-1 | CT | FAN STATUS | 8 |
| | RF-2 | CT | FAN STATUS | 8 |

1. REFERENCE SEQUENCE OF OPERATIONS.
2. RESET
3. MONITOR
4. CLOSE AHD-1-01, AHD-1-02, AHD-1-03 AND SEND ALARM
5. MONITOR, THEN ALARM WHEN SETPOINT IS EXCEEDED
6. REFERENCE 1/MH203
7. MONITOR, RESET DAMPER POSITION IF SETPOINT NOT MET
8. MONITOR, ALARM IF COMMANDED POSITION NOT MET

## GRAPHICS LEGEND




TERMS:
"ADJUSTABLE" MEANS INITIALLY SET "SET-POINT" TO VALUE SHOWN. TEST AND BALANCE CONTRACTOR TO ADJUST AS NECESSARY AND SHOW ON AS-BUILT DRAWINGS.

AIR HANDLER AHU-1

A. UNOCCUPIED MODE:
1. THE FAN CYCLES ON WITH THE OSA DAMPERS CLOSED AND MODULATES THE CHILLED WATER VALVES TO MAINTAIN A DISCHARGE AIR TEMP OF 55°F (ADJUSTABLE) IF A VAV BOX RISES ABOVE ITS UNOCCUPIED ZONE TEMP SET POINTS. THE FAN CYCLES ON WITH THE OSA DAMPERS CLOSED AND MODULATES THE STEAM VALVE AND FACE AND BYPASS DAMPERS TO MAINTAIN A DISCHARGE AIR TEMP OF 75°F (ADJUSTABLE). IF A VAV BOX FALLS BELOW ITS UNOCCUPIED ZONE TEMP SET POINTS A CONTROL LOOP SENSING THE SUPPLY STATIC PRESSURE SHALL MODULATE THE VFD ON THE SUPPLY FAN TO MAINTAIN THE STATIC PRESSURE SET POINT OF 1.1 INCHES (PROGRAMMABLE/ADJUSTABLE)

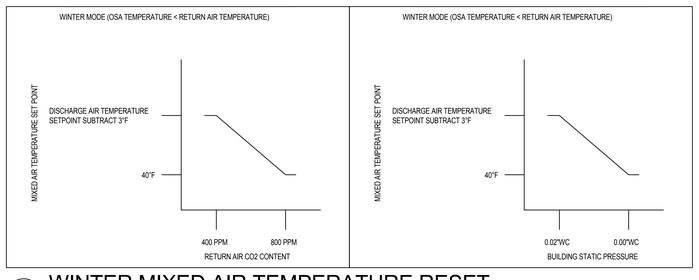
B. OCCUPIED MODE:
1. THE SUPPLY FAN SHALL RUN CONTINUOUSLY WHEN STARTED BY THE ATC SYSTEM (OCCUPANCY SCHEDULE OR VAV BOX OVERRIDE) SUBJECT TO FIRE ALARM INTERLOCKS AND IONIZATION DETECTOR LOCATED IN THE SUPPLY AND RETURN AIR STREAMS BY ELECTRICAL AS WELL AS A FREEZE STAT AND HIGH PRESSURE DUCT CUTOUT SWITCH AND A LOW DUCT STATIC PRESSURE SWITCH LOCATED ON THE INLET PLENUM OF THE FAN. A CONTROL LOOP SENSING THE SUPPLY STATIC PRESSURE SHALL MODULATE THE VFD ON THE SUPPLY FAN TO MAINTAIN THE STATIC PRESSURE SET POINT OF 1.1 INCHES (PROGRAMMABLE/ADJUSTABLE).
2. ON SUPPLY FAN SHUT DOWN, THE OUTSIDE AIR AND RELIEF AIR DAMPERS SHALL CLOSE, THE ASSOCIATED RETURN DAMPERS SHALL OPEN AND ALL AIR HANDLER VALVES SHALL CLOSE.
3. EACH RELIEF FANS SPRING-CLOSE DAMPER TO OPEN WHEN FAN IS ENABLED. THE RELIEF FANS SHALL BE MODULATED TO MAINTAIN BUILDING STATIC PRESSURE SET POINT OF 0.02" W.C.(ADJUSTABLE).
4. THE DUCT STATIC PRESSURE SET POINT SHALL BE RESET UPWARDS SUCH THAT THE MAXIMUM VAV BOX DAMPER OPENING POSITION IS 95%. THE DUCT STATIC PRESSURE SET POINT SHALL BE RESET FROM 0 TO THE MAXIMUM STATIC PRESSURE REQUIRED FOR THE SYSTEM BASED ON THE BALANCE CONTRACTOR'S FINDINGS. IT SHALL BE THE RESPONSIBILITY OF THE OWNER TO IDENTIFY THE VAV BOXES THAT CAUSE THE DUCT STATIC PRESSURE SET POINT TO BE RAISED UNNECESSARILY AND TO TAKE APPROPRIATE ACTION AFTER THE END OF THE WARRANTY PERIOD.
5. DISCHARGE AIR TEMPERATURE SET POINT: RESET LINEARLY BETWEEN THESE TWO POINTS. SEE DETAIL #2 ON SHEET M203.
6. MIXED AIR TEMPERATURE SET POINT: OUTSIDE AND RETURN AIR DAMPERS SHALL MODULATE TO MAINTAIN THE MIXED AIR TEMPERATURE SET POINT. THE MIXED AIR TEMPERATURE SET POINT SHALL BE RESET AS FOLLOWS:
MINIMUM OUTSIDE AIR DAMPER POSITION TO BE SET BY TEST AND BALANCE CONTRACTOR, SEE SCHEDULE FOR MINIMUM OUTSIDE AIR AIRFLOW.
IN WINTER MODE, SET THE MIXED AIR TEMPERATURE SET POINT TO BE THE LOWER RESULTING MIXED AIR TEMPERATURE SET POINT OF THE TWO FUNCTIONS SHOWN IN DETAIL #3 ON SHEET M203:
IN SUMMER MODE, SET THE MIXED AIR TEMPERATURE SET POINT TO BE THE HIGHER RESULTING MIXED AIR TEMPERATURE SET POINT OF THE FOLLOWING TWO FUNCTIONS SHOWN IN DETAIL #4 ON SHEET M203:

C. ECONOMIZER MODE:
1. WHEN THE SUPPLY FAN IS OPERATING, THE OUTSIDE AIR DAMPER WILL BE OPEN TO THE MINIMUM OUTSIDE AIR VENTILATION POSITION.
2. IF THE OUTSIDE AIR TEMPERATURE IS BELOW THE RETURN AIR TEMPERATURE, THE OUTSIDE AIR DAMPER WILL MODULATE OPEN PAST MINIMUM POSITION TO TAKE ADVANTAGE OF FREE COOLING CAPACITY, TO MAINTAIN THE SUPPLY AIR TEMPERATURE SET POINT.
3. IF THE OUTSIDE AIR TEMPERATURE IS ABOVE THE RETURN AIR TEMPERATURE, THE OUTSIDE AIR DAMPER WILL REMAIN AT MINIMUM POSITION.
4. ECONOMIZER MODE: THE BAS SHALL COMMAND THE HOT WATER VALVE CLOSED.
5. IF THE DISCHARGE AIR TEMPERATURE IS NOT ACHIEVED FOR 15 MINUTES, DISCONTINUE TO OPERATE THE ECONOMIZER OUTSIDE AIR TO MINIMUM CFM. OPEN THE CHILLED WATER COIL VALVE SHALL MODULATE OF COOLING IN SEQUENCE TO MAINTAIN THE DISCHARGE AIR TEMPERATURE SET POINT. THE CHILLED WATER COIL VALVES SHALL BE 2-WAY VALVES.
6. ALL FILTERS SHALL BE MONITORED WITH A PRESSURE TRANSDUCER CONNECTED TO THE BAS AND DISPLAYED ON THE GRAPHIC. A DIRTY FILTER ALARM SHALL ALSO BE GENERATED WHEN THE DIFFERENTIAL PRESSURE ACROSS THE FILTER RISES ABOVE A USER ADJUSTABLE/DEFINED SET POINT.
7. OUTSIDE AIR DAMPER MINIMUM POSITION CAN GO TO 0% BASED ON CO2 DEMAND CONTROLLED VENTILATION STRATEGY SHOWN IN THE LEFT GRAPH OF DETAIL #2 ON SHEET MH205 AND #4 ON SHEET M205.

When OSA temp < RA temp, control MA temp set point to the minimum MA temp temperature set point of the following 2 reset schedules:

| RETURN AIR CO2 CONTENT (ppm) | 400 | 800 |
|---|---|---|
| Mixed Air Temperature Set Point | DAT SP-3°F | 40°F |

| Building Static Pressure ("WC) | 0.02" | 0.00" |
|---|---|---|
| Mixed Air Temperature Set Point | DAT SP-3°F | 40°F |



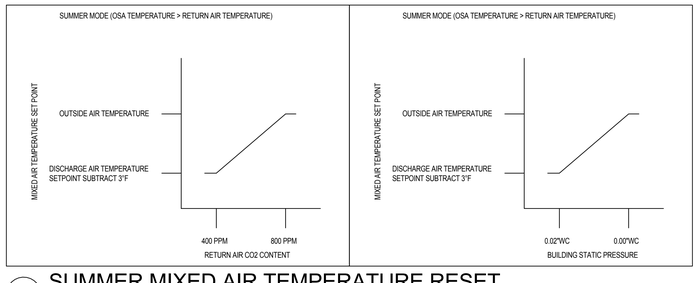

3 WINTER MIXED AIR TEMPERATURE RESET

SCALE: NONE

When OSA temp > RA temp, control the mixed air dampers in reverse to maintain a temperature set point to the maximum MA temperature set point of the following 2 reset schedules:

| RETURN AIR CO2 CONTENT (ppm) | 400 | 800 |
|---|---|---|
| Mixed Air Temperature Set Point | DAT SP-3°F | OSA TEMP |

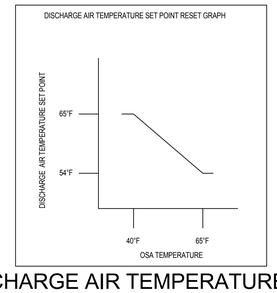
| Building Static Pressure ("WC) | 0.02" | 0.00" |
|---|---|---|
| Mixed Air Temperature Set Point | DAT SP-3°F | OSA TEMP |




4 SUMMER MIXED AIR TEMPERATURE RESET

SCALE: NONE

| Outside Air Temperature | 40°F | 65°F |
|---|---|---|
| Discharge Air Temperature Set Point | 65°F | 54°F |




2 DISCHARGE AIR TEMPERATURE RESET

SCALE: NONE

Copyright (C) 2012 by Colvin Engineering Associates, Inc. Salt Lake City, Utah. All rights reserved. Unauthorized copying and/or use is illegal and subject to prosecution.

10/2/2012 4:01:25 PM

VCBO ARCHITECTURE
VALENTINER
CRANE
BRUNJES
ONYON

VCBO ARCHITECTURE
524 SOUTH 600 EAST
SALT LAKE CITY, UT 84102
Phone: (801) 575-8800
Fax: (801) 531-9850
www: www.vcbo.com

DFCM CODE COMPLIANCE STAMP

# Student Activity Center
## Stromberg Addition - BID SET
Weber State University
3750 Harrison Blvd. Ogden, UT 84408

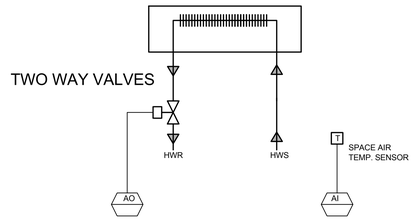
| Rev # | Date | Description |
|---|---|---|

Job # 2012-033.00
CAD File
Drawn TCF Checked BRC
Date 10.03.2012
Owner # DFCM #12031810

SCHEMATICS

M203

Colvin Engineering Associates, Inc.
244 West 300 North Suite 200
Salt Lake City, Utah 84103
Phone: (801) 322-2400 / Fax: (801) 322-2416

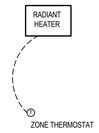



## 1 CABINET UNIT HEATER SCHEMATIC

SCALE: NONE

CABINET AND UNIT HEATERS

A. SHALL BE CONTROLLED BY PROVIDED AND MOUNTED THERMOSTAT
B. HOT WATER VALVE TO OPEN WHEN CALL FOR HEAT, CLOSED OTHERWISE.




## 3 ELECTRIC RADIANT PANEL

SCALE: NONE

RADIANT PANEL SEQUENCE

A. A WALL MOUNTED LINE VOLTAGE THERMOSTAT SHALL ENERGIZE THE PANEL TO MAINTAIN SPACE TEMPERATURE SET POINT OF 70°F.

TYPICAL GRAPHIC SCREEN

## 2 RESTROOM / JANITOR EXHAUST FAN SCHEMATIC

SCALE: NONE

EXHAUST FAN SEQUENCE

A. EXHAUST FAN IS ENABLED WHEN THE BUILDING IS IN THE OCCUPIED MODE. THIS FAN TO BE MONITORED BY THE BUILDING CONTROL SYSTEM.

SEQUENCE OF OPERATION

A. General:

1. All HVAC Systems shall be controlled with Direct Digital Control (DDC) according to the sequence contained in this section of the specifications and shall be stand-alone. Additional points or software programming not listed in the sequence or in the schematics but which are required to meet the following sequences of operation shall be provided.
2. Monitor all pumps and fans with adjustable setpoint current switches. Indicate equipment status, and generate an alarm if a motor fails or if an uncommanded change of status exists: i.e. control system sequence commands a pump to turn off, but it continues running because its starter has been locally set to the hand 'on' position, or vice-versa.
3. Alarms generated on the DDC system shall be classified as critical or non-critical. Review classification of each alarm with owner. Non-critical alarms generate a message on the operator workstation designated by the owner. Critical alarms will first generate a message on the operator workstation. If the alarm has not been manually cleared within 5 minutes (programmable), the system will automatically generate an email or text message alarm on a pager or mobile phone of the owner's choosing. All alarms to have an adjustable delay time before alarm is sent to facilities. Initial setpoint delay 30 minutes (adjustable).
4. The term 'enabled', as used in these control sequences, means a piece of equipment is capable of being turned on by the BAS. It does not mean it has been turned on by the BAS.
5. All setpoints are programmable.
6. All equipment identified to be interfaced through a digital interface is specified to be provided by the manufacturer with DDC interface cards and accessories.
7. BAS to monitor all electric power panels and report on graphics screen all building power usage on an ongoing basis data to be output and displayed on display monitors in public areas. coordinate with electrical division, BAS monitor and display system.

B. Equipment Schedules:

Each air handling unit, fan coil unit, exhaust fan, domestic hot water circulating pump, shall have its own separate occupied/unoccupied time schedule.

C. Demand Limiting:

Implement delays to equipment start times to prevent multiple pieces of equipment from starting at the same time so as to minimize electrical demand charges. Coordinate demand limiting strategy with the owner and the engineer prior to proceeding with any programming.

Also provide a maximum capacity limit on all air handlers, pumps, and chillers that operate when the generators are powering the building. Setting limits on the operating HVAC equipment will help ensure the HVAC loads do not unnecessarily load the generators.

D. Unit Heaters and Cabinet Unit Heaters:

Start unit fans when space temperature is below setpoint (initially 55F, adjustable, with 5F differential, on at 55F and off at 65°F). Two position heating water valves open when fan is on, and close when fan is off. Unit heaters: generate an alarm when space temperature drops below 40F for 15 minutes. Cabinet unit heaters: generate an alarm when space temperature drops below 50F for 15 minutes. Provide contactors to start and stop the fans in the heaters, and 2-position heating water valves to start and stop the flow of heating water. Valves shall remain closed when heater fans are off.

E. Variable Frequency Drives:

All VFDs shall be connected to the control network via a BACnet interface. Each drive shall accept the following control inputs: start, stop, setpoint reset. Each drive shall provide the following monitoring outputs: speed (Hz), speed (% of full), status, alarm/fault, amps, integral controller setpoint value, integral controller setpoint reset value, status of each binary input, setpoint of each binary input, drive internal temperature, and two additional outputs to be selected by the owner.

F. BTU Meters:

1. Provide BTU meters for the chilled water system, steam system,Trend this information on the 230900 system on a daily, weekly, monthly, and annual basis. Note the BTU meters include local displays that are to be installed in the mechanical room, and include a BACnet interface, All BTU meters data to be shown on BAS graphic screen and building dashboard.

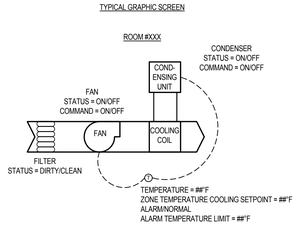
G. Domestic Water Supply:

Provide an Onicon flow meter to monitor and trend domestic water use in the building. Display data as real-time flow, and trended flow in gallons per day, week, month, and year. Locate meter in main domestic cold water pipe where it enters the building.

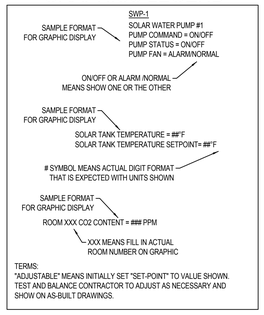
H. EXISTING SWIMMING POOL.

1. MONITOR POOL WATER TEMPERATURE ON BMS.

TYPICAL GRAPHIC SCREEN




## GRAPHICS LEGEND

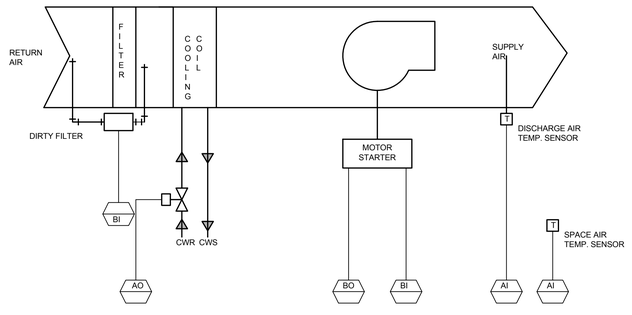



## 4 SPLIT SYSTEM FANCOIL SCHEMATIC

SCALE: NONE

SPLIT SYSTEM FANCOILS SEQUENCE

A. START CONDENSING UNIT ON THE ROOF AND THE SINGLE DX FAN COIL UNIT IT SERVES WHENEVER SPACE TEMPERATURE RISES ABOVE SET POINT (85°F, 5° DEAD BAND, OFF AT 80°F, ALL SET POINTS ADJUSTABLE). MONITOR DX FAN COIL FAN MOTOR AND CONDENSER ON ROOF WITH ADJUSTABLE SET POINT MOTOR CURRENT SWITCHES. GENERATE AN ALARM UPON FAILURE FAN MOTOR OR CONDENSING UNIT. MONITOR PRESSURE DROP ACROSS FILTER IN FAN COIL, AND GENERATE A FILTER CHANGE-OUT ALARM WHEN FILTER DIFFERENTIAL REACHES 0.5" W.C. (ADJUSTABLE). GENERATE AN ALARM IF SPACE TEMPERATURE EXCEEDS 90°F FOR 15 MINUTES.
PROVIDE ADDITIONAL BMS TEMPERATURE SENSOR TO ALARM IF BMS CANNOT INTERFACE WITH SPLIT SYSTEM CONTROLS.




## 5 FAN COIL UNIT FC-1

SCALE: NONE

Copyright (C) 2012 by Colvin Engineering Associates, Inc. Salt Lake City, Utah. All rights reserved. Unauthorized copying and/or use is illegal and subject to prosecution.

10/2/2012 4:01:26 PM

VCBO
ARCHITECTURE
VALENTINER
CRANE
BRUNJES
ONYON

VCBO ARCHITECTURE
524 SOUTH 600 EAST
SALT LAKE CITY, UT 84102
Phone: (801) 575-8800
Fax: (801) 531-9850
WWW: www.vcbo.com

DFCM CODE COMPLIANCE STAMP

# Student Activity Center
## Stromberg Addition - BID SET
Weber State University
3750 Harrison Blvd. Ogden, UT 84408

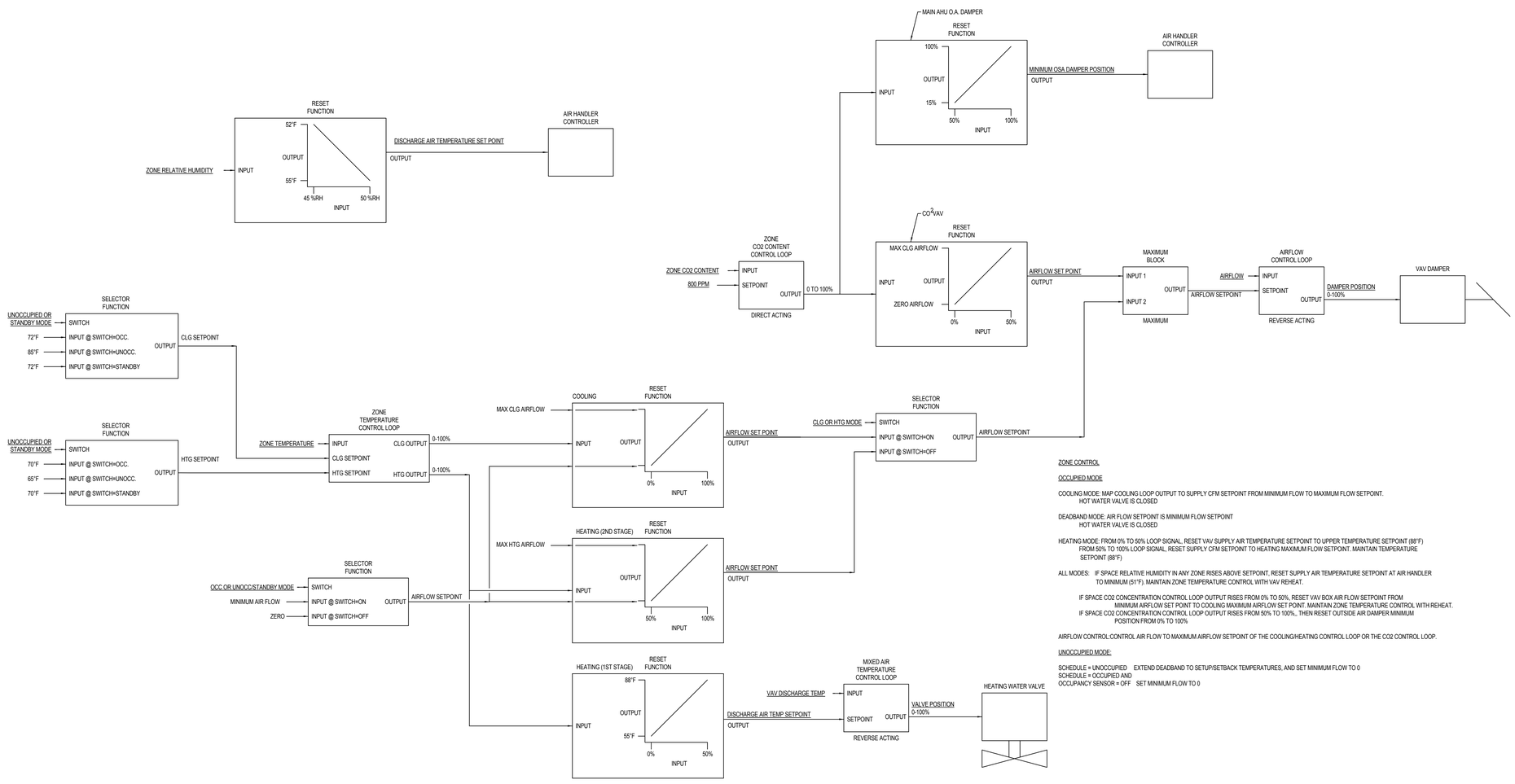
| Rev # | Date | Description |
|---|---|---|

Colvin Engineering Associates, Inc.
244 West 300 North Suite 200
Salt Lake City, Utah 84103
Phone: (801) 322-2400 / Fax: (801) 322-2416

Job # 2012-033.00
CAD File
Drawn TCF Checked BRC
Date 10.03.2012
Owner # DFCM #12031810

SCHEMATICS

M204




## 2 ZONE CONTROL SCHEMATIC

SCALE: NONE

ZONE CONTROL

OCCUPIED MODE

COOLING MODE: MAP COOLING LOOP OUTPUT TO SUPPLY CFM SETPOINT FROM MINIMUM FLOW TO MAXIMUM FLOW SETPOINT.
HOT WATER VALVE IS CLOSED

DEADBAND MODE: AIR FLOW SETPOINT IS MINIMUM FLOW SETPOINT
HOT WATER VALVE IS CLOSED

HEATING MODE: FROM 0% TO 50% LOOP SIGNAL. RESET VAV SUPPLY AIR TEMPERATURE SETPOINT TO UPPER TEMPERATURE SETPOINT (88°F)
FROM 50% TO 100% LOOP SIGNAL, RESET SUPPLY CFM SETPOINT TO HEATING MAXIMUM FLOW SETPOINT. MAINTAIN TEMPERATURE SETPOINT (88°F)

ALL MODES: IF SPACE RELATIVE HUMIDITY IN ANY ZONE RISES ABOVE SETPOINT, RESET SUPPLY AIR TEMPERATURE SETPOINT AT AIR HANDLER TO MINIMUM (51°F). MAINTAIN ZONE TEMPERATURE CONTROL WITH VAV REHEAT.

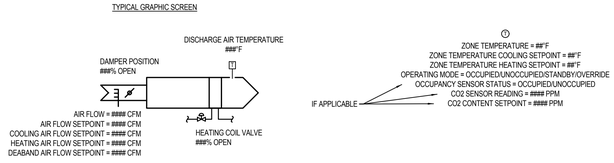
IF SPACE CO2 CONCENTRATION CONTROL LOOP OUTPUT RISES FROM 0% TO 50%, RESET VAV BOX AIR FLOW SETPOINT FROM MINIMUM AIRFLOW SET POINT TO COOLING MAXIMUM AIRFLOW SET POINT. MAINTAIN ZONE TEMPERATURE CONTROL WITH REHEAT.
IF SPACE CO2 CONCENTRATION CONTROL LOOP OUTPUT RISES FROM 50% TO 100%,. THEN RESET OUTSIDE AIR DAMPER MINIMUM POSITION FROM 0% TO 100%

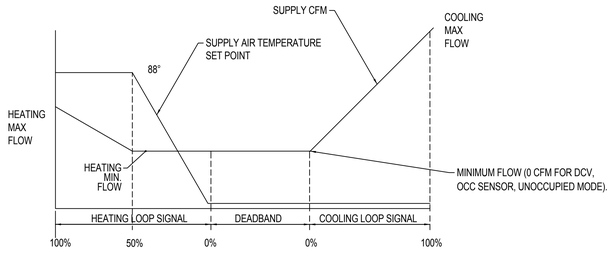
AIRFLOW CONTROL:CONTROL AIR FLOW TO MAXIMUM AIRFLOW SETPOINT OF THE COOLING/HEATING CONTROL LOOP OR THE CO2 CONTROL LOOP.

UNOCCUPIED MODE:

SCHEDULE = UNOCCUPIED EXTEND DEADBAND TO SETUP/SETBACK TEMPERATURES, AND SET MINIMUM FLOW TO 0
SCHEDULE = OCCUPIED AND
OCCUPANCY SENSOR = OFF SET MINIMUM FLOW TO 0

TYPICAL GRAPHIC SCREEN




## 1 VAV DUAL MAXIMUM SCHEMATIC

SCALE: NONE

VAV ZONES WITH REHEAT COIL

A. OCCUPIED MODE: OCCUPIED MODE OF THE ZONE CONTROLLER SHALL BE DETERMINED BY THE CENTRAL CONTROL IN THE OCCUPIED MODE IF THE SPACE TEMPERATURE IS BETWEEN THE HEATING TEMPERATURE AND THE COOLING TEMPERATURE SET POINT. THE BOX SHALL BE IN A DEAD BAND MODE. THE VAV CONTROLLER SHALL MODULATE THE PRIMARY DAMPER TO MAINTAIN THE VENTILATION MINIMUM CFM SET POINT. DURING OCCUPIED HOURS OF OPERATION, WHEN THE ZONE'S LIGHTING MOTION SENSOR IS NOT SENSING OCCUPANCY, THE VAV CONTROLLER WILL MAINTAIN OCCUPIED ZONE SET POINTS BUT MINIMUM AIRFLOW SET POINT SHALL BE SET TO ZERO CFM. WHEN THE MOTION SENSOR SENSES AN INDIVIDUAL(S) IN THE ZONE, THE CONTROLLER SHALL RETURN THE MINIMUM AIRFLOW SET POINT(S) TO THE MINIMUM VENTILATION SET POINTS AS SHOWN ON THE DRAWINGS. EACH OFFICE VAV CONTROLLER WILL BE PROVIDED WITH A SPARE INPUT (IN ADDITION TO THE DAT INPUT) THAT WILL MONITOR THE STATUS OF THE OCCUPANCY SENSOR (OR LIGHT SWITCH IF NO OCCUPANCY SENSOR IS INSTALLED) IN THE ROOM. THE CONTROLS CONTRACTOR WILL PROVIDE THE INTERLOCK WIRING AS WELL AS ANY DEVICES NEEDED TO ACCOMPLISH THE ENTIRE SEQUENCE OF OPERATION. THIS HARD-WIRED CONNECTION WILL BE THE METHOD OF INTERCONNECTION BETWEEN THE LIGHTING SYSTEM AND THE HVAC CONTROLS SYSTEM. VAV CONTROLLERS CAN BE OVERRIDDEN TO THE OCCUPIED MODE BY THE CENTRAL CONTROL SYSTEM OR BY A BUTTON ON THE THERMOSTAT IF THE THERMOSTAT IS PROVIDED WITH AN OVERRIDE BUTTON. THERMOSTATS IN PUBLIC AREAS SHALL NOT HAVE SET POINT ADJUSTABILITY KNOBS (SLIDERS) OR OVERRIDE BUTTONS.

B. UNOCCUPIED MODE: DURING UNOCCUPIED HOURS OF OPERATION, THE VAV CONTROLLER SHALL BE IN UNOCCUPIED MODE UNLESS ZONE IS OVERRIDDEN TO THE OCCUPIED MODE BY EITHER THE THERMOSTAT OVERRIDE BUTTON OR OVERRIDDEN BY THE BAS. IN THE UNOCCUPIED MODE THE VAV BOX DAMPER SHALL BE CLOSED AND THE REHEAT COIL VALVE CLOSED. ON A FALL IN SPACE TEMPERATURE BELOW THE UNOCCUPIED HEATING TEMPERATURE SET POINT (55°F) THE CONTROL VALVE SHALL OPEN AND THE VAV AIR DAMPER SHALL CONTROL TO THE HEATING AIRFLOW SET POINT TO MAINTAIN THE NIGHT SET BACK SETTING. ON A RISE IN SPACE TEMPERATURE ABOVE THE UNOCCUPIED COOLING TEMPERATURE SET POINT (80°F).THE VAV AIR DAMPER SHALL CONTROL TO THE COOLING AIRFLOW SET POINT TO MAINTAIN THE NIGHT SET BACK SETTING.

C. HEATING: ON A FALL IN SPACE TEMPERATURE BELOW THE HEATING TEMPERATURE SET POINT (68°F, ADJUSTABLE), THE CONTROLLER SHALL THAN MODULATE THE REHEAT COIL VALVE OPEN AS WELL AS MODULATE THE SUPPLY AIR VOLUME BETWEEN THE VENTILATION MINIMUM AND THE HEATING MAXIMUM AIR FLOW SET POINT. THE HEATING AIR FLOW SET POINT SHALL BE A FUNCTION OF THE HEATING CALCULATION PERCENTAGE TO MINIMIZE THE AMOUNT OF REHEAT. ON A 100% CALL FOR HEAT, THE VAV BOX SHALL CONTROL TO THE MAXIMUM HEATING AIR FLOW SET POINT AND THE REHEAT COIL VALVE SHALL BE WIDE OPEN. THE REVERSE SHALL OCCUR ON AN INCREASE IN SPACE TEMPERATURE EQUAL TO OR GREATER THAN THE HEATING TEMPERATURE SET POINT. WHEN THE HEATING WATER TEMP IS BELOW 100°F (ADJUSTABLE), THE HEATING AIRFLOW SET POINT SHALL BE SET TO ZERO. WHEN THE DISCHARGE AIR IS ABOVE 65°F (ADJUSTABLE) IN THE OCCUPIED MODE, THE COOLING AIRFLOW SET POINT SHALL BE SET TO ZERO.

D. COOLING: WHEN THE SPACE TEMPERATURE IS EQUAL TO OR GREATER THAN THE COOLING TEMPERATURE SET POINT (72°F) (VERIFY WITH OWNER FOR SET POINT ) VAV BOX CONTROLLER SHALL ENTER THE COOLING MODE. THE CONTROLLER SHALL MODULATE THE AIRFLOW SET POINT FROM THE MINIMUM VENTILATION SET POINT TO THE COOLING MAXIMUM SET POINT.

E. VENTILATION: VAV BOXES SERVING HIGH USAGE AREAS (AS SHOWN ON THE PLANS) SHALL HAVE A CO2 SENSOR LOCATED IN THE ROOM LOCATED IN A REASONABLE AND ACCESSIBLE LOCATION FOR MAINTENANCE. THE CO2 SENSOR SHALL DETERMINE THE VENTILATION MINIMUM CFM SET POINT FOR THE VAV BOX DDC CONTROLLER SERVING THAT ZONE. THE LOCAL DDC CONTROL LOOP SHALL THEN MODULATE THE VAV DAMPER TO MAINTAIN THE VENTILATION MINIMUM AIR REQUIRED TO MAINTAIN A CO2 LEVEL SET POINT OF 500 PPM (ADJUSTABLE) OR LESS, IN THE SPACE, AS WELL AS MAINTAIN THE ZONE TEMPERATURE AT SET POINT AS DESCRIBED ABOVE. SHOULD BOTH THE CO2 LEVEL MONITORED VENTILATION REQUIREMENT AND THE ZONE TEMPERATURE REQUIREMENT BE SATISFIED, THE AIRFLOW SET POINT OF THE VAV BOX CAN GO TO 0 CFM (ADJUSTABLE). THIS SEQUENCE MUST BE INTEGRAL TO THE CONTROLLER AND NOT HANDLED AT THE NETWORK MANAGER LEVEL. COMMISSIONING AGENT TO VERIFY DEMAND CONTROLLED VENTILATION OF CO2 DETECTORS. IF THE CO2 LEVEL REMAINS ABOVE SET POINT FOR MORE THAN 30 MINUTES (ADJUSTABLE) THEN OPEN THE RESPECTIVE AIR HANDLERS OUTSIDE AIR DAMPERS IN 10% INCREMENTS (ADJUSTABLE) EVERY 5 MINUTES (ADJUSTABLE) UNTIL CO2 LEVEL DROPS BELOW SET POINT. ONCE CO2 IS WITHIN ACCEPTABLE RANGE, THAT AIR HANDLERS OUTSIDE AIR DAMPER MAY RETURN TO MINIMUM SET POINT UNLESS PRIORITY OF ANOTHER COMMAND IS ISSUED. IF ANY CO2 READING IS ABOVE 900 PPM OR BELOW 350 PPM IT SHALL BE AUTOMATICALLY NULLIFIED FROM AIR HANDLER LOGIC PROGRAMMING DUE TO OUT OF RANGE ERROR. THE BAS SHALL GENERATE AN OUT OF RANGE ALARM.

DUAL MAXIMUM SEQUENCE

| | |
|---|---|
| OCCUPIED MODE: | |
| COOLING MODE: | MAP COOLING LOOP OUTPUT TO SUPPLY CFM SET POINT FROM MINIMUM FLOW TO COOLING MAX FLOW SET POINT. HOT WATER VALVE IS CLOSED. |
| DEADBAND MODE: | AIR FLOW SET POINT IS MINIMUM FLOW SET POINT. HOT WATER VALVE IS CLOSED. |
| HEATING MODE: | FROM 0% TO 50% LOOP SIGNAL, RESET SUPPLY AIR TEMPERATURE SET POINT TO UPPER TEMPERATURE SET POINT (88°F). |
| | FROM 50% TO 100% LOOP SIGNAL, RESET SUPPLY CFM SET POINT TO HEATING MAX FLOW SET POINT. MAINTAIN TEMPERATURE SET POINT (88°F). |
| | MODULATE HOT WATER VALVE USING PI CONTROL LOOP TO MAINTAIN SUPPLY AIR TEMPERATURE SET POINT. |
| | MODULATE VAV DAMPER POSITION TO MAINTAIN SUPPLY CFM SET POINT. |
| UNOCCUPIED MODE: | |
| WHEN SCHEDULE = | UNOCCUPIED, EXTEND DEADBAND TO SETUP/SETBACK TEMPERATURES, AND SET MINIMUM FLOW = 0. |
| WHEN SCHEDULE = | OCCUPIED AND OCCUPANCY SENSOR = OFF, SET MINIMUM FLOW = 0. |
| DCV OVERRIDE: | MODULATE DAMPER POSITION USING PI CONTROL LOOP TO MAINTAIN CO2 SETPOINT. REGARDLESS OF COOLING OR DEADBAND MODE, MODULATE HOT EATER VALVE USING PI CONTROL LOOP TO MAINTAIN SPACE TEMPERATURE. |

Copyright (C) 2012 by Colvin Engineering Associates, Inc. Salt Lake City, Utah. All rights reserved. Unauthorized copying and/or use is illegal and subject to prosecution.

10/2/2012 4:01:26 PM

VCBO ARCHITECTURE
524 SOUTH 600 EAST
SALT LAKE CITY, UT 84102
Phone: (801) 575-8800
Fax: (801) 531-9850
WWW: www.vcbo.com

DFCM CODE COMPLIANCE STAMP

# Student Activity Center
## Stromberg Addition - BID SET
Weber State University
3750 Harrison Blvd. Ogden, UT 84408

| Rev # | Date | Description |
|---|---|---|

Job # 2012-033.00
CAD File
Drawn TCF Checked BRC
Date 10.03.2012
Owner # DFCM #12031810

SCHEMATICS

M205

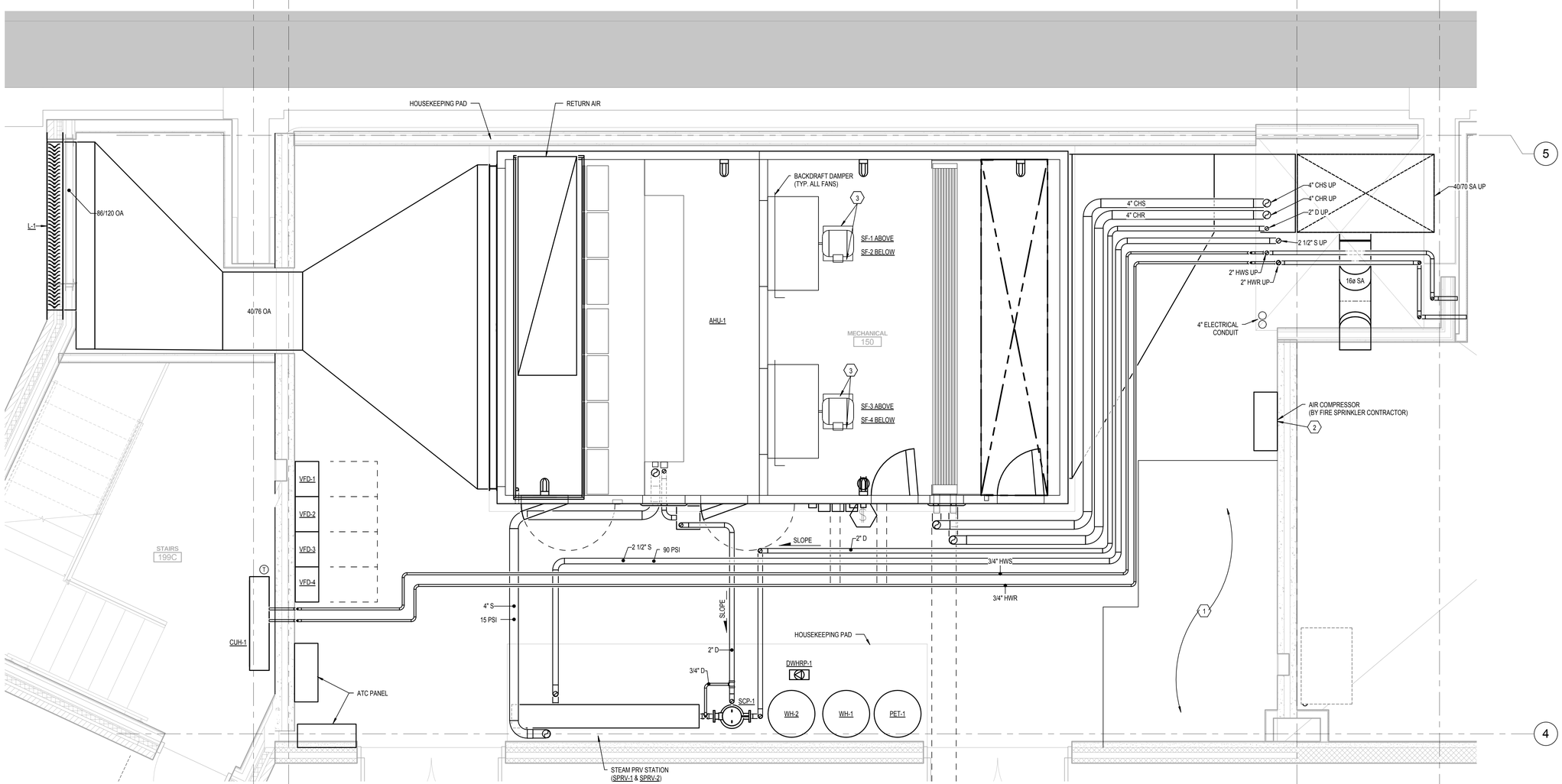
Colvin Engineering Associates, Inc.
244 West 300 North Suite 200
Salt Lake City, Utah 84103
Phone: (801) 322-2400 / Fax: (801) 322-2416

## KEYED NOTES

1. AREA SHOWN IS FOR ELECTRICAL EQUIPMENT. MAINTAIN ALL MECHANICAL DUCTWORK, PIPING, PLUMBING, ETC. CLEAR OF AREA.
2. AIR COMPRESSOR FOR DRY SIDE PREACTION FIRE PROTECTION SYSTEM DESIGNED BY FIRE SPRINKLER CONTRACTOR. COORDINATE SPACE AND ELECTRICAL REQUIREMENTS WITH ARCHITECT AND ELECTRICAL RESPECTIVELY.
3. LIFTING POINTS REQUIRED.

## GENERAL NOTES

A. NO DUCT OR PIPE TO RUN OVER ELECTRICAL PANEL.
B. FIRE/SMOKE DAMPER MOTORS AND MOTORIZED DAMPERS TO BE MOUNTED TO SIDE OF NEAREST CEILING ACCESS HATCH OR OPEN CEILING AREA. PROVIDE 24" X 24" DUCT ACCESS AS REQUIRED. TYPICAL.
C. COORDINATE DUCTWORK AND EQUIPMENT WITH ALL TRADES.
D. ROUTE 3/4" CONDENSATE DRAINS FOR ALL REQUIRED MECHANICAL EQUIPMENT TO NEAREST FLOOR DRAIN OR SERVICE SINK.
E. BUILDING EXPANSION JOINT AT GRID 5. PROVIDE FLEXIBLE CONNECTION TO MEET REQUIREMENTS.
F. PROVIDE A WATER TIGHT PAN THAT IS 2" DEEP AND 6" LARGER THAN ANY PLUMBING, MECHANICAL PIPING, OR MECHANICAL EQUIPMENT INSTALLED OVER ANY ELECTRICAL EQUIPMENT OR GEAR THAT IS UNAVOIDABLE.
G. DIFFUSERS ALONG GLASS TO BLOW TOWARD GLASS.




## 1 ENLARGED MECHANICAL ROOM MECHANICAL PLAN

SCALE: 1/2" = 1'-0"

2' 0" 2' 4'

Copyright (C) 2012 by Colvin Engineering Associates, Inc. Salt Lake City, Utah. All rights reserved. Unauthorized copying and/or use is illegal and subject to prosecution.

10/2/2012 4:01:29 PM

VCBO
ARCHITECTURE
VALENTINER
CRANE
BRUNJES
ONYON

VCBO ARCHITECTURE
524 SOUTH 600 EAST
SALT LAKE CITY, UT 84102
Phone: (801) 575-8800
Fax: (801) 531-9850
WWW: www.vcbo.com

DFCM CODE COMPLIANCE STAMP

# Student Activity Center
## Stromberg Addition - BID SET
Weber State University
3750 Harrison Blvd. Ogden, UT 84408

| Rev # | Date | Description |
|---|---|---|

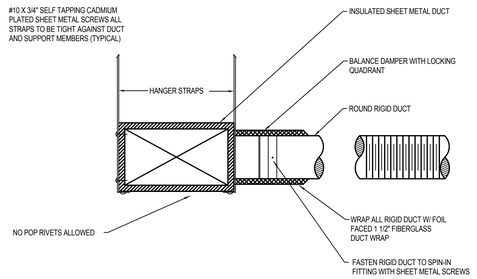
Stephen G. Colvin
167524
10/3/2012
REGISTERED PROFESSIONAL ENGINEER
State of Utah

Colvin Engineering Associates, Inc.
244 West 300 North Suite 200
Salt Lake City, Utah 84103
Phone: (801) 322-2400 / Fax: (801) 322-2416

Job # 2012-033.00
CAD File
Drawn TCF Checked BRC
Date 10.03.2012
Owner # DFCM #12031810

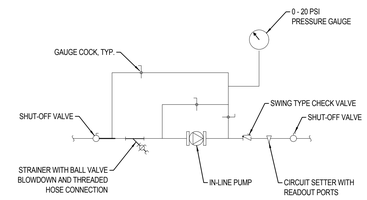
ENLARGED MECHANICAL PLANS

M401



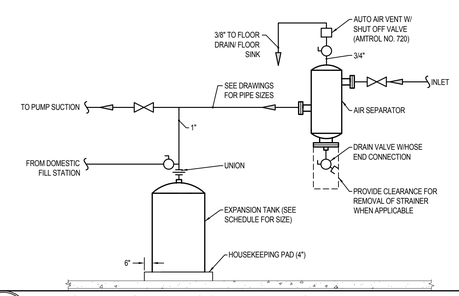

1 FLEX DUCT/SPIN-IN FITTING DETAIL

NO SCALE



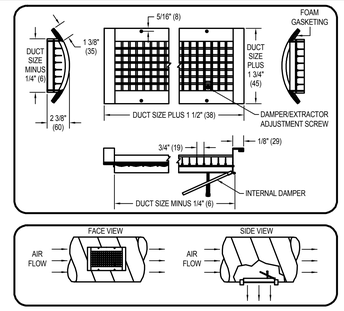

2 IN-LINE PUMP PIPING DETAIL

NO SCALE



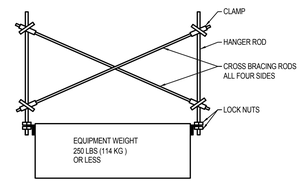

3 AIR SEPARATOR/EXPANSION TANK PIPING DETAIL

NO SCALE




4 DUCT MOUNTED DIFFUSER DETAIL

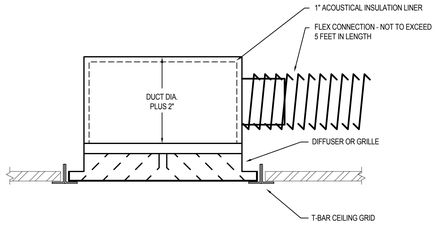
NO SCALE




4 SEISMIC BRACING FOR SUSPENDED EQUIPMENT DETAIL

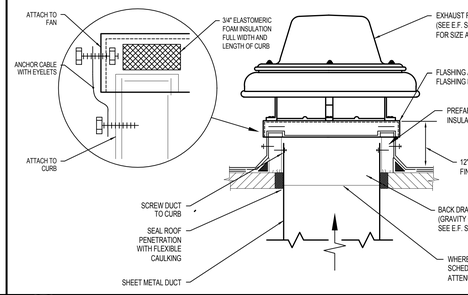
NO SCALE

15880/23310



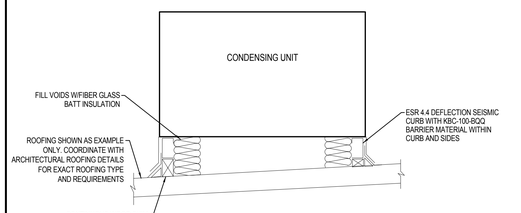

6 DIFFUSER AND GRILLE CONNECTION DETAIL

NO SCALE



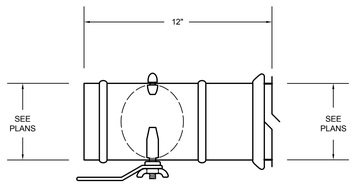

7 EXHAUST FAN AND CURB DETAIL

NO SCALE



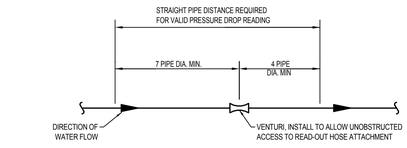

8 CONDENSING UNIT ROOF CURB DETAIL

NO SCALE



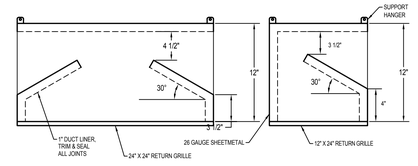

9 TYPICAL MANUAL VOLUME DAMPER DETAIL

NO SCALE




10 VENTURI INSTALLATION DETAIL

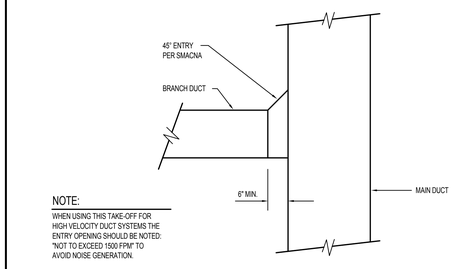
NO SCALE




TYPICAL OF ALL RETURN AIR GRILLES

11 RETURN AIR SHEETMETAL SOUND BOOT DETAIL

NO SCALE

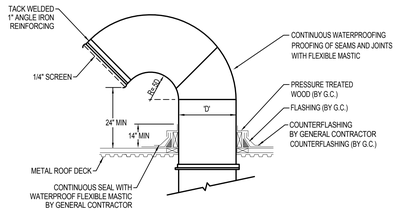



NOTE:

WHEN USING THIS TAKE-OFF FOR HIGH VELOCITY DUCT SYSTEMS THE ENTRY OPENING SHOULD BE NOTED: "NOT TO EXCEED 1500 FPM" TO AVOID NOISE GENERATION.

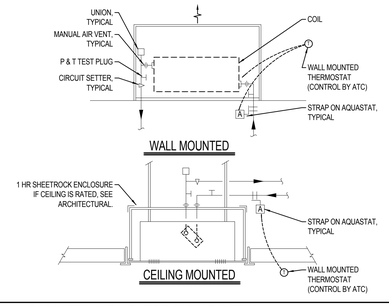
12 TYPICAL DUCT TAKEOFF DETAIL

NO SCALE



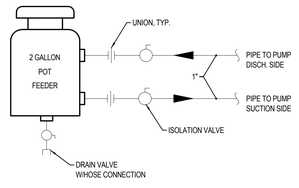

13 GOOSENECK DETAIL

NO SCALE



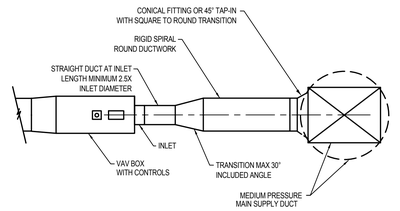

14 CABINET UNIT HEATER PIPING DETAIL

NO SCALE




15 CHEMICAL POT FEEDER PIPING DETAIL

NO SCALE




16 TYPICAL MEDIUM PRESSURE TAKE-OFF VAV DETAIL

NO SCALE

Copyright (C) 2012 by Colvin Engineering Associates, Inc. Salt Lake City, Utah. All rights reserved. Unauthorized copying and/or use is illegal and subject to prosecution.

10/2/2012 4:01:30 PM

VCBO ARCHITECTURE
VALENTINER CRANE BRUNJES ONYON

VCBO ARCHITECTURE
524 SOUTH 600 EAST
SALT LAKE CITY, UT 84102
Phone: (801) 575-8800
Fax: (801) 531-9850
WWW: www.vcbo.com

DFCM CODE COMPLIANCE STAMP

# Student Activity Center
## Stromberg Addition - BID SET
Weber State University
3750 Harrison Blvd. Ogden, UT 84408

| Rev # | Date | Description |
|---|---|---|

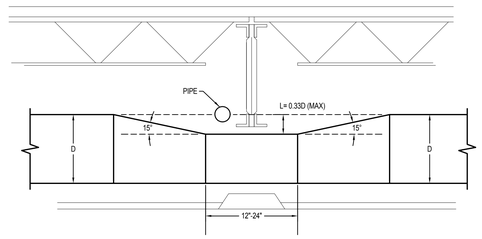
Stephen G. Cornia 167524 10/3/2012 Registered Professional Engineer State of Utah

Colvin Engineering Associates, Inc.
244 West 300 North Suite 200
Salt Lake City, Utah 84103
Phone: (801) 322-2400 / Fax: (801) 322-2416

Job # 2012-033.00
CAD File
Drawn TCF Checked BRC
Date 10.03.2012
Owner # DFCM #12031810

MECHANICAL DETAILS

M501



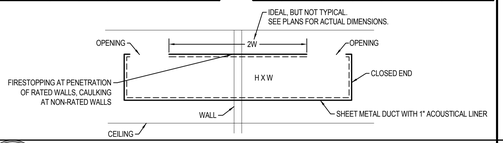

## 1 TYPICAL DUCT SLICE DETAIL

NO SCALE

15900

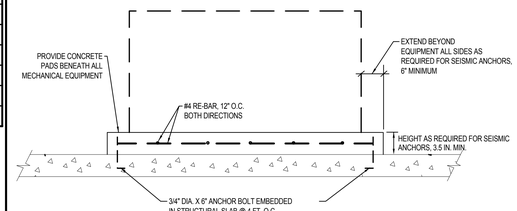
| SIZE | OPENING (INXIN) | W (IN) | H (IN) | MAX. TRANSFER (CFM) | APPROX. ΔP (IN WC) |
|---|---|---|---|---|---|
| H | 50 X 24 | 50 | 12 | 3500 | 0.04 |
| I | 50 X 24 | 50 | 18 | 5000 | 0.04 |
| J | 26 X 12 | 26 | 12 | 1600 | 0.02 |
| K | 50 X 24 | 50 | 24 | 6600 | 0.04 |
| L | 72 X 18 | 72 | 18 | 7200 | 0.04 |
| M | 48 X 48 | 48 | 48 | 22,000 | 0.04 |
| N | 24 X 24 | 24 | 24 | 2,000 | 0.04 |

| SIZE | OPENING (INXIN) | W (IN) | H (IN) | MAX. TRANSFER (CFM) | APPROX. ΔP (IN WC) |
|---|---|---|---|---|---|
| A | 12 X 6 | 12 | 6 | 230 | 0.02 |
| B | 12 X 12 | 12 | 6 | 380 | 0.02 |
| C | 24 X 6 | 24 | 6 | 400 | 0.02 |
| D | 24 X 12 | 24 | 6 | 680 | 0.02 |
| E | 24 X 12 | 24 | 12 | 920 | 0.02 |
| F | 24 X 24 | 24 | 12 | 1500 | 0.02 |
| G | 36 X 24 | 36 | 12 | 2500 | 0.02 |



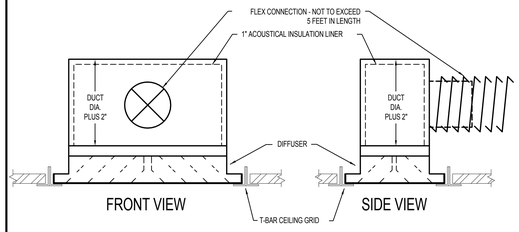

## 2 TRANSFER AIR DUCT (PLENUM/PLENUM)

NO SCALE



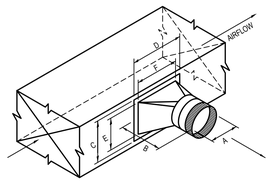

## 3 HOUSEKEEPING PAD DETAIL

NO SCALE




## 4 SLOT DIFFUSER CONNECTION DETAIL

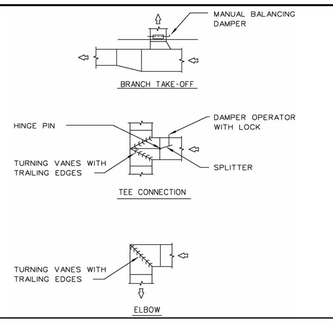
NO SCALE




| CUT HOLE SIZE | | | | | |
|---|---|---|---|---|---|
| A | B | C | D | E | F |
| 6" | 10 | 8 1/4 | 11 | 6 | 9 |
| 7" | 10 | 9 1/4 | 12 | 7 | 10 |
| 8" | 10 | 10 1/4 | 13 | 8 | 11 |
| 9" | 11 1/2 | 11 1/4 | 14 | 9 | 12 |
| 10" | 11 1/2 | 12 1/4 | 14 | 10 | 12 |
| 12" | 11 1/2 | 14 1/4 | 16 | 12 | 14 |
| 14" | 12 1/2 | 16 1/4 | 18 | 14 | 16 |

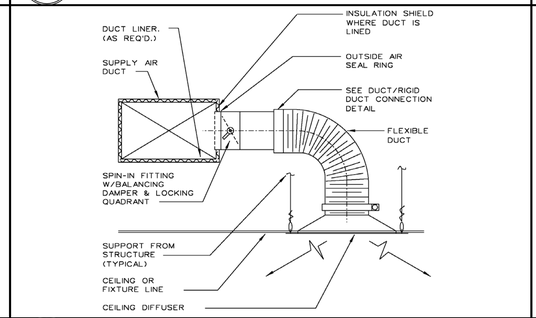
## 5 ROUND MEDIUM PRESSURE DUCT TAKE-OFF & DAMPER

NO SCALE



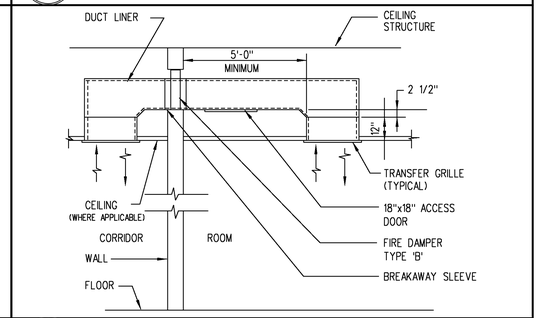

## 6 LOW PRESSURE DUCT DETAILS

NO SCALE



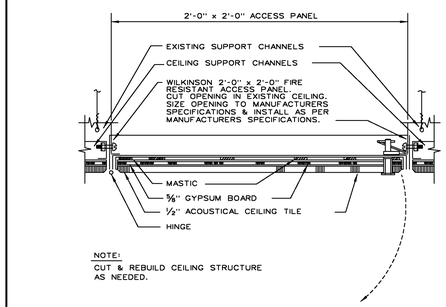

## 7 CEILING DIFFUSER DETAIL

NO SCALE



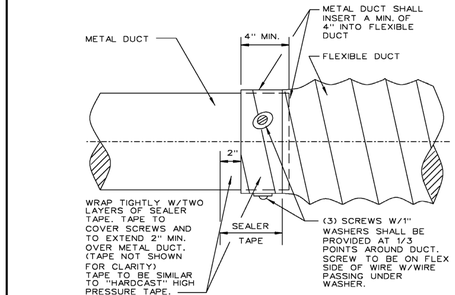

## 8 TRANSFER DUCT DETAIL

NO SCALE



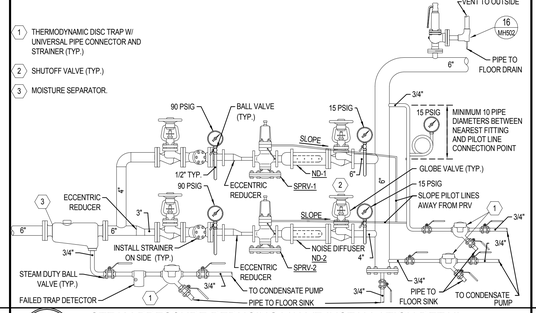

## 9 ACCESS PANEL DETAIL

NO SCALE



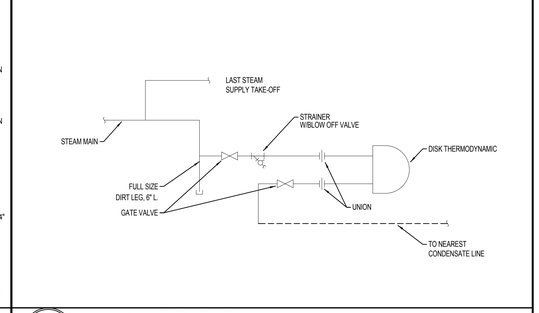

## 10 FLEXIBLE DUCT / RIGID DUCT CONNECTION

NO SCALE



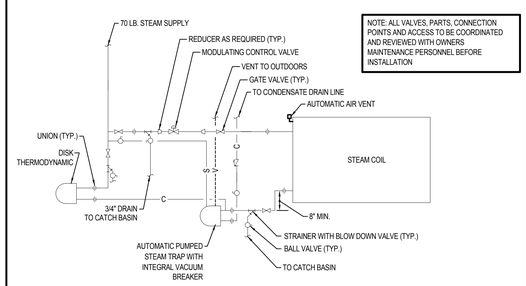

## 11 STEAM PRESSURE REDUCING VALVE INSTALLATION DETAIL

NO SCALE




## 12 END OF MAIN DRIP DETAIL

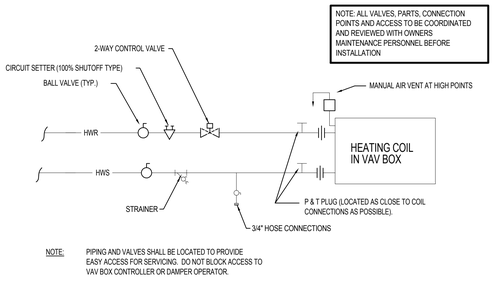
NO SCALE




NOTE: ALL VALVES, PARTS, CONNECTION POINTS AND ACCESS TO BE COORDINATED AND REVIEWED WITH OWNERS MAINTENANCE PERSONNEL BEFORE INSTALLATION

## 13 MODULATING STEAM COIL PIPING

NO SCALE

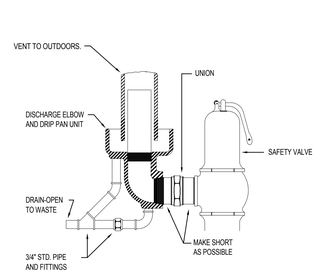



NOTE: ALL VALVES, PARTS, CONNECTION POINTS AND ACCESS TO BE COORDINATED AND REVIEWED WITH OWNERS MAINTENANCE PERSONNEL BEFORE INSTALLATION

NOTE: PIPING AND VALVES SHALL BE LOCATED TO PROVIDE EASY ACCESS FOR SERVICING. DO NOT BLOCK ACCESS TO VAV BOX CONTROLLER OR DAMPER OPERATOR.

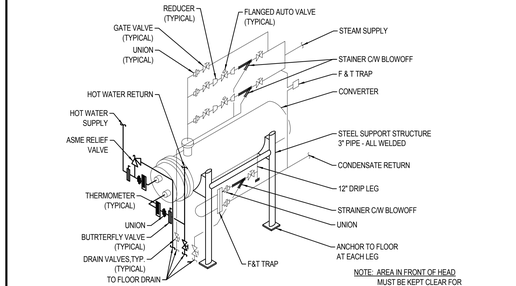
## 14 VAV REHEAT BOX (2-WAY VALVE)

NO SCALE




## 15 STEAM DRIP PAN ELL DETAIL

NO SCALE




## 16 STEAM TO WATER CONVERTER PIPING DETAIL

NO SCALE

Copyright (C) 2012 by Colvin Engineering Associates, Inc. Salt Lake City, Utah. All rights reserved. Unauthorized copying and/or use is illegal and subject to prosecution.

10/2/2012 4:01:31 PM

VCBO ARCHITECTURE
524 SOUTH 600 EAST
SALT LAKE CITY, UT 84102
Phone: (801) 575-8800
Fax: (801) 531-9850
WWW: www.vcbo.com

DFCM CODE COMPLIANCE STAMP

# Student Activity Center
## Stromberg Addition - BID SET
Weber State University
3750 Harrison Blvd. Ogden, UT 84408

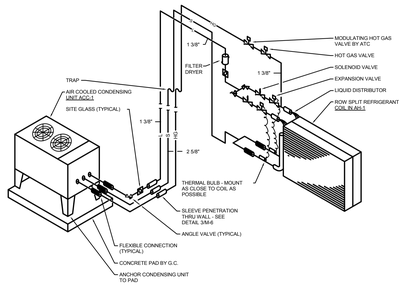
| Rev # | Date | Description |
|---|---|---|

Colvin Engineering Associates, Inc.
244 West 300 North Suite 200
Salt Lake City, Utah 84103
Phone: (801) 322-2400 / Fax: (801) 322-2416

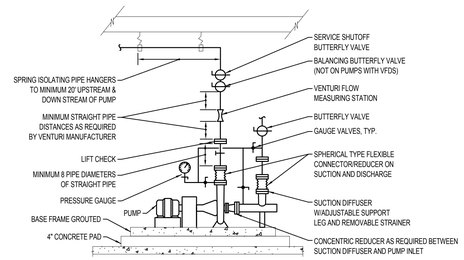
Job # 2012-033.00
CAD File
Drawn TCF Checked BRC
Date 10.03.2012
Owner # DFCM #12031810

MECHANICAL DETAILS

M502




1 REFRIGERANT COIL CONNECTION DETAIL
NO SCALE




2 BASE MOUNTED PUMP INSTALLATION DETAIL
NO SCALE

3
NO SCALE

4
NO SCALE

5
NO SCALE

6
NO SCALE

7
NO SCALE

8
NO SCALE

9
NO SCALE

10
NO SCALE

11
NO SCALE

12
NO SCALE

13
NO SCALE

14
NO SCALE

15
NO SCALE

16
NO SCALE

Copyright (C) 2012 by Colvin Engineering Associates, Inc. Salt Lake City, Utah. All rights reserved. Unauthorized copying and/or use is illegal and subject to prosecution.

10/2/2012 4:01:32 PM

VCBO
ARCHITECTURE
VALENTINER
CRANE
BRUNJES
ONYON

VCBO ARCHITECTURE
524 SOUTH 600 EAST
SALT LAKE CITY, UT 84102
Phone: (801) 575-8800
Fax: (801) 531-9850
WWW: www.vcbo.com

DFCM CODE COMPLIANCE STAMP

# Student Activity Center
## Stromberg Addition - BID SET
Weber State University
3750 Harrison Blvd. Ogden, UT 84408

| Rev # | Date | Description |
|---|---|---|

Colvin Engineering Associates, Inc.
244 West 300 North Suite 200
Salt Lake City, Utah 84103
Phone: (801) 322-2400 / Fax: (801) 322-2416

Job # 2012-033.00
CAD File
Drawn TCF Checked BRC
Date 10.03.2012
Owner # DFCM #12031810

MECHANICAL DETAILS

M503

## VARIABLE FREQUENCY DRIVE SCHEDULE (VFD)

| PLAN CODE | SERVICE | H.P. | VOLTAGE & PHASE | REMARKS |
|---|---|---|---|---|
| VFD-1 | P-1 | 30 | 460/3 | - , - |
| VFD-2 | ~~DCP-1~~ | ~~0.4~~ OMIT | ~~460/3~~ | - , - |
| VFD-3 | SF-1,2,3,4 | 15 | 460/3 | - , - |
| VFD-4 | RF-1 | 10 | 460/3 | - , - |
| VFD-5 | RF-2 | 10 | 460/3 | - , - |

(1) VFD SPECIFIED AND INSTALLED BY DIVISION 23000. WIRED BY ELECTRICAL DIVISION.

## SPLIT SYSTEM SCHEDULE - AIR COOLED CONDENSING UNIT (AC)

| AREA SERVED | ARI COOLING CAP (BTUH) | INDOOR UNIT | | | | | | | | | | OUTDOOR UNIT | | | | | | | | | | REMARKS * |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | PLAN CODE | TYPE | ELECTRICAL | | | | DIMENSIONS (IN) | | | WEIGHT (LBS) | MANUFACTURER MODEL | PLAN CODE | REFRIGERANT | ELECTRICAL | | | | DIMENSIONS (IN) | | | WEIGHT (LBS) | MANUFACTURER MODEL | |
| | | | | VOLTAGE | PHASE | MCA | FLA | H | W | D | | | | | VOLTAGE | PHASE | MCA | MOCP | H | W | D | | | |
| ELEV EQUIP ROOM | 18,000 | ACC-1 | HIGH WALL MOUNTED | 208/230 | 1 | 1.0 | 0.33 | 12 | 36 | 10 | 35 | CITY MULTI PKFY-P18NKMU-E | CU-1 | R410A | 208/230 | 1 | 13 | 20 | 24 | 32 | 14 | 110 | CITY MULTI PUHY-P18TGMU-A | (1)(2)(3)(4)(5)(6)(7)(8) |
| COMM ROOM | 18,000 | ACC-2 | HIGH WALL MOUNTED | 208/230 | 1 | 1.0 | 0.33 | 12 | 36 | 10 | 35 | CITY MULTI PKFY-P18NKMU-E | CU-2 | R410A | 208/230 | 1 | 13 | 20 | 24 | 32 | 14 | 110 | CITY MULTI PUHY-P18TGMU-A | (1)(2)(3)(4)(5)(7)(8) |

(1) RATING AT 95° F DB AND 75° F WB ENTERING EVAPORATOR.
(2) ROUTE REFRIGERANT LINES FROM CONDENSING UNIT TO SPLIT SYSTEM FAN COILS AS REQUIRED. ROUTE AND SIZE REFRIGERANT LINES PER MANUFACTURERS REQUIREMENTS.
(3) HANG UNIT FROM STRUCTURE WITH ALL THREAD ROD AND SPRING VIBRATION ISOLATION.
(4) MOUNT OUTDOOR UNIT ON ROOF CURB.
(5) PROVIDE WITH LOW AMBIENT KIT DOWN TO 0°F.
(6) UNIT ON EMERGENCY POWER.
(7) PROVIDE DISCONNECT WITH THE UNITS.
(8) WITH DIGITAL THERMOSTAT SET AT 80°F

## RELIEF FAN SCHEDULE (1)(2)(3)(4)(5)

| PLAN CODE | TYPE | CFM @ ELEV. | ESP (S.L.) | FAN RPM | MOTOR | | | | MOTOR CONTROL | LENGTH (IN.) | WIDTH (IN.) | HEIGHT (□ IN.) | OPENING SIZE (IN) | OPERATING WT. (LBS.) | MANUFACTURER/ MODEL |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | B.H.P. | H.P. | EFFICIENY % | VOLTAGE & PHASE | | | | | | | |
| RF-1 | MIXED FLOW UPBLAST | 24,000 | 1.0 | 1220 | 8.45 | 10 | PREMIUM | 460/3 | VFD | N/A | 82 | 91 | 43" ø | 1500 | COOK 300QMXU |
| RF-2 | MIXED FLOW UPBLAST | 24,000 | 1.0 | 1220 | 8.45 | 10 | PREMIUM | 460/3 | VFD | N/A | 82 | 91 | 43" ø | 1500 | COOK 300QMXU |

(1) PROVIDE WITH FACTORY MOUNTED VFD WITH NEMA 4X ENCLOSURE. SEE SPECIFICATIONS.
(2) PROVIDE WITH 14" INTERNALLY INSULATED AND SEISMICALLY ISOLATED ROOF CURB.
(3) HEIGHT DOES NOT INCLUDE 14" ROOF CURB.
(4) INTERLOCK WITH ASSOCIATED MOTORIZED DAMPER.
(5) PROVIDE WITH OUTLET BACKDRAFT DAMPER.

## VAV REHEAT

PLAN CODE — FLOOR-BOX NO
MAX COOLING CFM — MIN COOLING CFM

| PLAN CODE | INLET SIZE (IN) | MAX COOLING AIR FLOW (CFM) | MAX NC | △P @ MAX AIR FLOW (IN WC) | MIN CONTROL (CFM) | HW COIL | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | EAT (°F) | MIN LAT (°F) | MAX HEATING (CFM) | ROWS | MAX GPM @180°F | MAX WPD (FT) | COIL MBH |
| 6R1 | 6 | 500 | 33 | 0.38 | 80 | 55 | 88 | 360 | 1 | 1.8 | 1.5 | 10.8 |
| 6R2 | 6 | 500 | 31 | 0.53 | 80 | 55 | 88 | 500 | 2 | 0.6 | 0.1 | 15.0 |
| 8R1 | 8 | 900 | 31 | 0.33 | 150 | 55 | 88 | 450 | 1 | 1.6 | 1.7 | 13.5 |
| 8R2 | 8 | 800 | 29 | 0.48 | 150 | 55 | 88 | 800 | 2 | 0.9 | 0.3 | 24.0 |
| 10R1 | 10 | 1400 | 31 | 0.33 | 230 | 55 | 88 | 700 | 1 | 2.4 | 1.2 | 20.0 |
| 10R2 | 10 | 1400 | 31 | 0.63 | 230 | 55 | 88 | 1400 | 2 | 1.3 | 0.8 | 36.0 |
| 12R1 | 12 | 1600 | 33 | 0.24 | 325 | 55 | 88 | 900 | 1 | 3.2 | 2.1 | 27.0 |
| 12R2 | 12 | 1600 | 32 | 0.46 | 325 | 55 | 88 | 1600 | 2 | 1.7 | 0.6 | 48.0 |
| 14R1 | 14 | 2500 | 32 | 0.32 | 450 | 55 | 88 | 1250 | 1 | 3.2 | 1.2 | 36.0 |
| 14R2 | 14 | 2500 | 32 | 0.57 | 450 | 55 | 88 | 2500 | 2 | 2.1 | 0.8 | 68.0 |
| 16R1 | 16 | 3400 | 32 | 0.38 | 580 | 55 | 88 | 1500 | 1 | 4.3 | 2.0 | 45.0 |
| 16R2 | 16 | 2900 | 29 | 0.52 | 580 | 55 | 88 | 2900 | 2 | 3.3 | 0.6 | 87.1 |
| 22R1 | 22 | 5000 | 35 | 0.35 | 1400 | 55 | 88 | 2100 | 1 | 2.2 | 0.8 | 53.0 |
| 22R2 | 22 | 5000 | 35 | 0.61 | 1400 | 55 | 88 | 5000 | 2 | 5.0 | 1.5 | 150.1 |

(1) PERFORMANCE AT 4500 FT ELEVATION.

## STEAM PRESSURE RELIEF VALVE

| PLAN CODE | SERVICE | SIZE (IN) | | PRESSURE SIZE (PSIG) | ORIFICE TYPE | CAPACITY (LBS./HR.) | MANUFACTURER & MODEL No. | REMARKS |
|---|---|---|---|---|---|---|---|---|
| | | INLET | OUTLET | INLET | | | | |
| SSV-1 | HEATING HW HX | 6" | 3" | 15 | H | 1,400 | SPIRAX SARCO SV74VTH75 | PROVIDE WITH DRIP PAN ELBOW |

## STEAM PILOT OPERATED PRV SCHEDULE

| PLAN CODE | AREA SERVED | PRESSURE (PSIG) | | CAPACITY (LBS./HR.) | SIZE INLET / OUTLET (IN.) | MANUFACTURER & MODEL No. | REMARKS |
|---|---|---|---|---|---|---|---|
| | | UPSTREAM | DOWNSTREAM | | | | |
| SPRV-1 | ND-1 | 90 | 15 | 930 | 2" / 3" | SPIRAX SARCO 25P | WITH ACOUSTIC AND INSULATION BLANKET |
| SPRV-2 | ND-2 | 90 | 15 | 470 | 1-1/2" / 2" | SPIRAX SARCO 25P | WITH ACOUSTIC AND INSULATION BLANKET |

## STEAM SYSTEM NOISE DIFFUSER SCHEDULE

| PLAN CODE | SERVICE | SIZE (IN) | | | MANUFACTURER & MODEL No. | MIN. NOISE REDUCTION (DBA) | REMARKS |
|---|---|---|---|---|---|---|---|
| | | INLET | OUTLET | MAX. LENGTH | | | |
| ND-1 | SPRV-1 | 3 | 6 | 17 | SPIRAX SARCO D6 | 15 | - |
| ND-2 | SPRV-2 | 2 | 4 | 14 | SPIRAX SARCO D4 | 15 | - |

(1) NOISE DIFFUSERS ONLY AS REQUIRED TO MAINTAIN NOISE LEVEL BELOW 80 dBA AT 5' FROM PRV.

## CONTROL DAMPER (CD)

| PLAN CODE | SCHEMATIC SHEET | SERVICE | SIZE | | ACTION | NOTES |
|---|---|---|---|---|---|---|
| | | | AIR FLOW (CFM) | DIMENSION W x H (IN) | | |
| CD-1 | MH-A401 | AHU-1 OUTSIDE AIR | 25,000 | 48 X 56 | OPPOSED BLADE | SET FOR MINIMUM OSA |
| CD-2 | MH-A401 | AHU-1 OUTSIDE AIR | 25,000 | 48 X 56 | OPPOSED BLADE | SET FOR MINIMUM OSA |
| CD-3 | MH-A401 | AHU-1 RETURN AIR | 25,000 | 48 X 60 | OPPOSED BLADE | - |
| CD-4 | MH-A401 | AHU-1 RETURN AIR | 25,000 | 48 X 60 | OPPOSED BLADE | - |
| CD-5 | MH-A401 | RF-1 | 25,000 | 60 X 60 | OPPOSED BLADE | - |
| CD-6 | MH-A401 | RF-2 | 25,000 | 60 X 60 | OPPOSED BLADE | - |

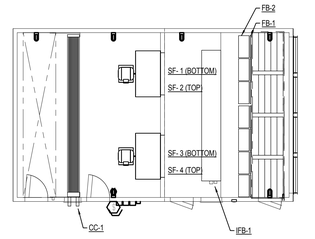
## AIR DEVICE SCHEDULE (3)

PLAN CODE — GRILLE CFM

| PLAN CODE | TYPE & DUTY | FACE SIZE | NECK SIZE | CEILING TYPE (2) | MAX CFM | MAX TP (IN WC) | NC LEVEL MAX | MIN THROW (FT) (T50) | 4-WAY MIN THROW (T50) | 2-WAY MIN THROW (T50) | MANUFACTURER & MODEL NO | REMARKS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | LINEAR-SUPPLY | 24"L | 6"ø | MATCH CEILING | 80 | 0.08 | 32 | 12 | - | - | TEMPO L.D. | 1 @ 1" SLOT |
| 2 | LINEAR-SUPPLY | 24"L | 8"ø | MATCH CEILING | 160 | 0.09 | 33 | 13 | - | - | TEMPO L.D. | 2 @ 1" SLOT |
| 3 | LINEAR-SUPPLY | 24"L | 8"ø | MATCH CEILING | 240 | 0.10 | 34 | 14 | - | - | TEMPO L.D. | 3 @ 1" SLOT |
| 4 | LINEAR-SUPPLY | 24"L | 10"ø | MATCH CEILING | 320 | 0.11 | 35 | 15 | - | - | TEMPO L.D. | 4 @ 1" SLOT |
| 5 | LINEAR-SUPPLY | 48"L | 8"ø | MATCH CEILING | 160 | 0.08 | 32 | 12 | - | - | TEMPO L.D. | 1 @ 1" SLOT |
| 6 | LINEAR-SUPPLY | 48"L | 10"ø | MATCH CEILING | 320 | 0.09 | 33 | 13 | - | - | TEMPO L.D. | 2 @ 1" SLOT |
| 7 | LINEAR-SUPPLY | 48"L | 12"ø | MATCH CEILING | 480 | 0.10 | 34 | 14 | - | - | TEMPO L.D. | 3 @ 1" SLOT |
| 8 | LINEAR-SUPPLY | 48"L | 12"ø | MATCH CEILING | 640 | 0.11 | 35 | 15 | - | - | TEMPO L.D. | 4 @ 1" SLOT |
| 9 | PERFORATED RETURN | 24" X 24" | 22" X 22" | MATCH CEILING | 1200 | 0.05 | 17 | - | - | - | TITUS PAR | - |
| 10 | PERFORATED RETURN | 24" X 12" | 22"X 10" | MATCH CEILING | 600 | 0.06 | 10 | - | - | - | TITUS PAR | - |
| 11 | PERFORATED RETURN/EXHAUST | 24" X 24" | 22" X 22" | MATCH CEILING | 1200 | 0.05 | 17 | - | - | - | TITUS PAR | - |
| 12 | PERFORATED RETURN/EXHAUST | 24" X 12" | 22" X 10" | MATCH CEILING | 600 | 0.06 | 10 | - | - | - | TITUS PAR | - |
| 13 | PERFORATED EXHAUST GRILLE | 8" X 8" | 6" X 6" | MATCH CEILING | 120 | 0.12 | 10 | - | - | - | TITUS 8F | - |
| 14 | PERFORATED EXHAUST GRILLE | 10" X 10" | 8" X 8" | MATCH CEILING | 225 | 0.12 | 12 | - | - | - | TITUS 8F | - |
| 15 | PERFORATED EXHAUST GRILLE | 12" X 12" | 10" X 10" | MATCH CEILING | 360 | 0.12 | 14 | - | - | - | TITUS 8F | - |
| 16 | PERFORATED EXHAUST GRILLE | 14" x 14" | 12" X 12" | MATCH CEILING | 550 | 0.12 | 16 | - | - | - | TITUS 8F | - |
| 17 | PERFORATED EXHAUST GRILLE | 16" X 16" | 14" x 14" | MATCH CEILING | 750 | 0.12 | 17 | - | - | - | TITUS 8F | - |
| 18 | PERFORATED EXHAUST GRILLE | 20" X 20" | 18" X 18" | MATCH CEILING | 1250 | 0.12 | 19 | - | - | - | TITUS 8F | - |
| 19 | PERFORATED EXHAUST GRILLE | 24" X 24" | 22" X 22" | MATCH CEILING | 1900 | 0.12 | 21 | - | - | - | TITUS 8F | - |
| 20 | PERFORATED EXHAUST GRILLE | 32" X 32" | 30" X 30" | SURFACE | 3600 | 0.12 | 24 | - | - | - | TITUS 8F | - |
| 21 | RADIAL BLADE DIFFUSER | 12"ø | 8"ø | SURFACE | 210 | 0.14 | 29 | 8 (1) | - | - | AIR DIFFUSION PRODUCTS DNR | - |
| 22 | RADIAL BLADE DIFFUSER | 15"ø | 10"ø | SURFACE | 330 | 0.14 | 29 | 10 (1) | - | - | AIR DIFFUSION PRODUCTS DNR | - |
| 23 | RADIAL BLADE DIFFUSER | 18"ø | 12"ø | SURFACE | 470 | 0.14 | 30 | 12 (1) | - | - | AIR DIFFUSION PRODUCTS DNR | - |
| 24 | RADIAL BLADE DIFFUSER | 21"ø | 14"ø | SURFACE | 640 | 0.14 | 30 | 14 (1) | - | - | AIR DIFFUSION PRODUCTS DNR | - |
| 25 | RADIAL BLADE DIFFUSER | 24"ø | 16"ø | SURFACE | 840 | 0.14 | 30 | 15 (1) | - | | AIR DIFFUSION PRODUCTS DNR | - |
| 26 | RADIAL BLADE DIFFUSER | 24" X 24" | 8"ø | GRID | 210 | 0.14 | 29 | 8 (1) | - | - | AIR DIFFUSION PRODUCTS DNR | - |
| 27 | RADIAL BLADE DIFFUSER | 24" X 24" | 10"ø | GRID | 330 | 0.14 | 29 | 10 (1) | - | - | AIR DIFFUSION PRODUCTS DNR | - |
| 28 | RADIAL BLADE DIFFUSER | 24" X 24" | 12"ø | GRID | 470 | 0.14 | 30 | 12 (1) | - | - | AIR DIFFUSION PRODUCTS DNR | - |
| 29 | RADIAL BLADE DIFFUSER | 24" X 24" | 14"ø | GRID | 640 | 0.14 | 30 | 14 (1) | - | - | AIR DIFFUSION PRODUCTS DNR | - |
| 30 | RADIAL BLADE DIFFUSER | 24" X 24" | 16"ø | GRID | 840 | 0.14 | 30 | 15 (1) | - | - | AIR DIFFUSION PRODUCTS DNR | - |
| 31 | ADJUSTABLE LOUVERED | 24" X 24" | 6"ø | MATCH CEILING | 170 | 0.13 | 25 | ADJUSTABLE | 11 | 18 | TITUS TDCA | 18" x 18" CORE |
| 32 | ADJUSTABLE LOUVERED | 24" X 24" | 8"ø | MATCH CEILING | 310 | 0.13 | 27 | ADJUSTABLE | 14 | 24 | TITUS TDCA | 18" x 18" CORE |
| 33 | ADJUSTABLE LOUVERED | 24" X 24" | 10"ø | MATCH CEILING | 440 | 0.13 | 28 | ADJUSTABLE | 17 | 26 | TITUS TDCA | 18" x 18" CORE |
| 34 | ADJUSTABLE LOUVERED | 24" X 24" | 12"ø | MATCH CEILING | 600 | 0.14 | 28 | ADJUSTABLE | 21 | 33 | TITUS TDCA | 18" x 18" CORE |
| 35 | ADJUSTABLE LOUVERED | 24" X 24" | 14"ø | MATCH CEILING | 800 | 0.13 | 29 | ADJUSTABLE | 24 | 39 | TITUS TDCA | 18" x 18" CORE |
| 36 | ADJUSTABLE LOUVERED | 24" X 24" | 16"ø | MATCH CEILING | 950 | 0.11 | 29 | ADJUSTABLE | 26 | 41 | TITUS TDCA | 18" x 18" CORE |
| 37 | BAR FLOOR DIFFUSER | 2 1/2" | 2 1/2" x L | - | 80/FT | 0.10 | 31 | - | - | - | TITUS CT-480 | - |
| 38 | BAR FLOOR DIFFUSER | 4" | 4" x L | - | 150/FT | 0.10 | 34 | - | - | - | TITUS CT-480 | - |
| 39 | BAR FLOOR DIFFUSER | 6" | 6" x L | - | 230/FT | 0.09 | 35 | - | - | - | TITUS CT-480 | - |
| 40 | BAR FLOOR DIFFUSER | 8" | 8" x L | - | 300/FT | 0.08 | 34 | - | - | - | TITUS CT-480 | - |
| 41 | THERMALLY CONTROLLED DIFFUSER | 24" X 24" | 8"ø | GRID | 260 | 0.15 | 35 | - | - | - | THERMAFUSER | 2-WAY CORNER |
| 44 | SUPPLY REGISTER | 12" X 8" | 10" X 6" | DUCT | 270 | 0.12 | 29 | 30 | - | - | KRUEGER DMGDR | 0° DEFLECTION |
| 45 | RETURN REGISTER | 20" X 12" | 18" X 10" | DUCT | 660 | 0.1 | 20 | - | - | - | TITUS 355ZRL | 0° DEFLECTION |

(1) RECOMMENDED MINIMUM DISTANCE BETWEEN DIFFUSERS IN 9' CEILING.
(2) VERIFY FRAME TYPE OF ALL AIR DEVICES WITH ARCHITECTURAL REFLECTED CEILING PLAN BEFORE ORDERING.
(3) COORDINATE AND VERIFY FINISH COLOR OF ALL GRILLES AND REGISTERS WITH ARCHITECT PRIOR TO ORDERING.

(1) PROVIDE CO2 SENSOR IN RETURN AIR DUCT BEFORE OUTSIDE AIR CONNECTION TO CONTROL MINIMUM RETURN AIR DAMPER. CONNECTION TO CONTROL MINIMUM RETURN AIR DAMPER.
(2) 5/8" TUBE, .035" TUBE THICKNESS.
(3) PROVIDE MERV 8 PRE AND MERV 13 FINAL FILTERS
(4) HEIGHT DOES NOT INCLUDE ROOF CURB.
(5) FUSED DISCONNECT.
(6) PROVIDE SMOKE DETECTOR IN THE RETURN AIR DUCT BEFORE OUTSIDE AIR DUCT CONNECTION AT UNIT TO SHUT UNIT DOWN UPON SMOKE DETECTION.
(7) SINGLE POINT POWER CONNECTION.
(8) PROVIDE SEISMIC BRACE SPRING VIBRATION ISOLATORS ON ALL FANS.
(9) VFD PROVIDED BY AIR HANDLER MANUFACTURER. WIRED AND INSTALLED.
(10) PROVIDE FLOW MONITORING STATION AND CO2 SENSOR IN OUTSIDE AIR CONNECTION.
(11) EVAPORATIVE MEDIA TO HAVE 6" RALL MAXIMUM SECTIONS WITH INDIVIDUAL SUPPORT RACKS.
(12) ALL DOORS TO OPEN AGAINST AIR PRESSURE
(13) BACKDRAFT DAMPERS TO BE PROVIDED FOR ALL FANS.
(14) LIFTING POINTS REQUIRED.




AHU-1

## COIL SCHEDULE (C)

| PLAN CODE | SERVICE | AIR SIDE | | | | FLUID SIDE | | | | FIN THICKNESS (IN.) | NOMINAL CONFIGURATION | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | MINIMUM CAPACITY (MBH) | EAT (DBT / WBT) | LAT (DBT / WBT) | MAX. APD (IN WC) | FLUID | EFT/LFT (F) | FLOW RATE / STEAM CONSUMPTION | MAXIMUM FPD (FT) | | ROWS | FPI | NO. COILS |
| IFB-1 | STEAM | 1400 | 65 / - | 95 / - | 0.20 | STEAM @ 15 PSI | 67 / 76.8 | 1480 LBS/HR | - | - | 1 | 9 | 1 @ 132.38"X81" |
| CC-1 | CHILLED WATER | 1300 | 77 / 60 | 51 / 50 | 0.51 | WATER | 46 / 61 | 170 GPM | 25 | .008 | 8 | 11 | 3 @ 33"X162" |

## AIR HANDLER (AHU)

| PLAN CODE | CFM | MIN. OSA (CFM) | ESP (IN WC) | MAXIMUM DIMENSIONS | | | | NOTES |
|---|---|---|---|---|---|---|---|---|
| | | | | LENGTH (IN) | HEIGHT (IN) | WIDTH (IN) | WEIGHT (LBS) | |
| AHU-1 | 51,540 | 7050 | 2.5 | 293 | 123 | 181 | 25,000 | PROVIDE FACE AND BYPASS DAMPERS FOR STEAM COIL |

## SUPPLY FAN SCHEDULE (SF)

| PLAN CODE | FAN | | | | | | MOTOR | | | | MANUFACTURER & MODEL NO. | NOTES |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | CONFIGURATION | FLOW (CFM) | TSP (IN WG) | SPEED (RPM) | ARRAY | CLASS | BHP | SIZE (HP) | VOLTAGE/ PHASE | VOLUME CONTROL | | |
| SF-1 | FAN WALL - ACFQ1 | 12,885 | 4.5 | 1750 | 2 ROWS X 2 FANS | III | 12.2 | 15 | 460/3 | VFD WITH AUTO TRANSFER BACK-UP VFD | HAAKON | - |
| SF-2 | FAN WALL - ACFQ1 | 12,885 | 4.5 | 1750 | 2 ROWS X 2 FANS | III | 12.2 | 15 | 460/3 | VFD WITH AUTO TRANSFER BACK-UP VFD | HAAKON | - |
| SF-3 | FAN WALL - ACFQ1 | 12,885 | 4.5 | 1750 | 2 ROWS X 2 FANS | III | 12.2 | 15 | 460/3 | VFD WITH AUTO TRANSFER BACK-UP VFD | HAAKON | - |
| SF-4 | FAN WALL - ACFQ1 | 12,885 | 4.5 | 1750 | 2 ROWS X 2 FANS | III | 12.2 | 15 | 460/3 | VFD WITH AUTO TRANSFER BACK-UP VFD | HAAKON | - |

## FAN NOISE PERFORMANCE DATA (SF-1 THROUGH SF-4)

| OCTAVE BAND | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
|---|---|---|---|---|---|---|---|---|
| HZ | 63 | 125 | 250 | 500 | 1000 | 2000 | 4000 | 8000 |
| SOUND POWER INLET | 76 | 79 | 93 | 84 | 79 | 79 | 79 | 73 |
| SOUND POWER OUTLET | 84 | 84 | 88 | 55 | 76 | 73 | 73 | 68 |

## FILTER BANK (FB)

| PLAN CODE | MERV | MAX. CLEAN PD (IN WC) | DESIGN PD (IN WC) | INDIVIDUAL FILTER DIMENSIONS | | | QUANTITY (EA) |
|---|---|---|---|---|---|---|---|
| | | | | LENGTH (IN) | HEIGHT (IN) | DEPTH (IN) | |
| FB-1 | 8 | 0.2 | 0.50 | 24 | 24 | 2 | 28 24W X 24H |
| FB-2 | 13 | 0.30 | 0.50 | 24 | 12 | 12 | 7 24W X 12H |

Copyright (C) 2012 by Colvin Engineering Associates, Inc. Salt Lake City, Utah. All rights reserved. Unauthorized copying and/or use is illegal and subject to prosecution.

10/2/2012 4:01:32 PM

VCBO ARCHITECTURE
VALENTINER CRANE BRUNJES ONYON
VCBO ARCHITECTURE
524 SOUTH 600 EAST
SALT LAKE CITY, UT 84102
Phone: (801) 575-8800
Fax: (801) 531-9850
www: www.vcbo.com

DFCM CODE COMPLIANCE STAMP

# Student Activity Center
## Stromberg Addition - BID SET
Weber State University
3750 Harrison Blvd. Ogden, UT 84408

Rev # | Date | Description

Colvin Engineering Associates, Inc.
244 West 300 North Suite 200
Salt Lake City, Utah 84103
Phone: (801) 322-2400 / Fax: (801) 322-2416

Job # 2012-033.00
CAD File
Drawn TCF Checked BRC
Date 10.03.2012
Owner # DFCM #12031810

MECHANICAL SCHEDULES

M601

## FAN COIL UNIT SCHEDULE (FCU)

| PLAN CODE | CFM | MIN OSA CFM | ESP (IN WC) | FAN HP | VOLT/ PH | HEATING COIL | | | | | COOLING COIL | | | | | | MAX DIMENSIONS | | | | MANUFACTURER & MODEL NO | ACCESSORIES |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | CAPACITY (MBH) | EAT/ LAT (°F) | EWT/ LWT (°F) | GPM | WATER PD (FT) | CAPACITY (MBH) | EAT (DB/ WB) (°F) | LAT (DB/ WB) (°F) | EWT/ LWT (°F) | GPM | WATER PD (FT) | LENGTH (IN) | WIDTH (IN) | HEIGHT (IN) | OPERATING WT (LBS) | | |
| FCU-1 | 1360 | 230 | 0.3 | 1/2 | 115/1 | 55 | 57 / 95 | 180 / 150 | 3.6 | 12 | 48 | 92 / 67 | 56 / 55 | 46 / 56 | 10 | 16 | 44 | 40 | 18 | 200 | TRANE BCHC036A1**A1AM2G0000-0A01 | - - |

## EXHAUST FAN SCHEDULE (EF)

| PLAN CODE | AREA SERVED | TYPE | CFM @ ELEV | ESP @ ELEV | FAN RPM | MOTOR | | | SONES | DAMPER (GRAVITY OR MOTOR) | METHOD OF CONTROL | OPENING SIZE | MAX OPERATING WT (LBS) | MANUFACTURER & MODEL NO | REMARKS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | BHP | HP | VOLT/ PH | | | | | | | |
| EF-1 | LOCKER / SHOWER ROOMS | ROOF MNTD DOWNBLAST | 1650 | 0.75 | 1463 | 0.342 | 1/2 | 115/1 | 13.1 | GRAVITY | CONTINUOUS | 16" SQ | 111 | COOK 135CSB | TYPE II |
| EF-2 | ELEVATOR EQUIP ROOM | CEILING MOUNTED FAN | 60 | 0.5 | 900 | 47W | - | 115/1 | 2.5 | GRAVITY | SWITCH | - | 14 | COOK GC-124 | - |
| EF-3 | ELECTRICAL ROOM 103M | CEILING MOUNTED FAN | 600 | 0.5 | 1625 | 258W | - | 115/1 | 6.5 | GRAVITY | T-STAT | - | 36 | COOK GC-740 | - |

(1) HOOD SWITCH ENABLED AND HOOD TEMPERATURE SENSOR ENABLED AND INTERLOCKED WITH MAU-1.
(2) REFRIGERANT ALARM AND MANUAL OVERRIDE

## CABINET UNIT HEATER (1)(2)(3)(4)

| PLAN CODE | CFM @ ELEV. | HEATING COIL | | | | MOTOR | | MOUNTING | CONFIGURATION | MAX. DIMENSIONS W X H X D | MANUFACTURER & MODEL NO | REMARKS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | MIN. HEATING CAP. (MBH) (LOW SPD) | GPM | MAX. WPD (FT) | EWT/LWT (°F) | EAT/LAT (°F) | HP | VOLTAGE & PHASE | | | | |
| CUH-1 | 430 | 22.0 | 1.0 | 0.07 | 180 / 160 | 72/80 | 1/10 | 115/1 | SURFACE | INVERTED FLOW | 47" X 25" X 9 1/2" | AIRTHERM "WI-1110" SIZE 04 | REMOTE MOUNTED THERMOSTAT ON WALL |

(1) PROVIDE 1" FILTER.
(2) HEATING ONLY UNIT.
(3) HIGH CAPACITY 2 ROW COIL.
(4) 5/8" TUBE, .035" TUBE THICKNESS.

## PUMP SCHEDULE

| PLAN CODE | DUTY | FLOW (GPM) | PRESSURE (FT) | PUMP SPEED (RPM) | MIN. EFF. (%) | FLUID | MOTOR | | | | PUMP & MOTOR WT (LB) | MANUFACTURER & MODEL NO. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | LOAD (BHP) | SIZE (HP) | EFF. (%) | VOLTAGE & PHASE | | |
| P-1 | BUILDING CHILLED WATER - UPGRADE EXISTING PUMP IN MECH RM | 630 | 100 | VFD | 70 | FW | 21 | 30 | (1) PREMIUM | 460/3 | 1000 | B & G SERIES 1510 4GB |

(1) INVERTER DUTY RATED MOTOR.

## GRAVITY RELIEF HOOD SCHEDULE (RH) (1)(2)(3)(4)(5)

| PLAN CODE | AREA/ FUNCTION | CFM @ ELEV. | ESP (S.L.) | MAX DIMENSIONS | | | OPENING SIZE (IN) | MAX OPERATING WT (LBS) | MANUFACTURER & MODEL NO | REMARKS |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | LENGTH (IN) | WIDTH (IN) | HEIGHT (IN) | | | | |
| RH-1 | GRAVITY RELIEF VENTILATOR | 16,500 | 0.04 | 99 | 93 | 29 | 72 X 60 | 850 | COOK 60 X 72 GR | - |
| RH-2 | GRAVITY RELIEF VENTILATOR | 16,500 | 0.04 | 99 | 93 | 29 | 72 X 60 | 850 | COOK 60 X 72 GR | - |
| RH-3 | GRAVITY RELIEF VENTILATOR | 16,500 | 0.04 | 99 | 93 | 29 | 72 X 60 | 850 | COOK 60 X 72 GR | - |
| RH-4 | GRAVITY RELIEF VENTILATOR | 16,500 | 0.04 | 99 | 93 | 29 | 72 X 60 | 850 | COOK 60 X 72 GR | - |

(1) PROVIDE WITH BIRDSCREEN.
(2) PROVIDE WITH 14" INTERNALLY INSULATED AND SEISMICALLY ISOLATED ROOF CURB.
(3) HEIGHT DOES NOT INCLUDE 14" ROOF CURB.
(4) INTERLOCK WITH ASSOCIATED MOTORIZED DAMPER AND AIR HANDLING UNIT.
(5) PROVIDE WITH OUTLET BACKDRAFT DAMPER.

## INTAKE HOOD SCHEDULE (IH) (1)(2)(3)(4)(5)

| PLAN CODE | AREA/ FUNCTION | CFM @ ELEV. | SP (IN WC) | MAX DIMENSIONS | | | OPENING SIZE (IN) | MAX OPERATING WT (LBS) | MANUFACTURER & MODEL NO | REMARKS |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | LENGTH (IN) | WIDTH (IN) | HEIGHT (IN) | | | | |
| IH-1 | GRAVITY INTAKE VENTILATOR | 16,500 | 0.06 | 123 | 84 | 32 | 90 X 36 | 900 | COOK 36 X 90 GI | - |

(1) PROVIDE WITH BIRDSCREEN.
(2) PROVIDE WITH 14" INTERNALLY INSULATED AND SEISMICALLY ISOLATED ROOF CURB.
(3) HEIGHT DOES NOT INCLUDE 14" ROOF CURB.
(4) INTERLOCK WITH ASSOCIATED MOTORIZED DAMPER.
(5) PROVIDE WITH OUTLET BACKDRAFT DAMPER.

## STEAM CONDENSATE PUMP & RECEIVER SCHEDULE

| PLAN CODE | STEAM PRESS (PSI) | LB/ HR (STEAM) | DISCHARGE SIZE (IN.) | INLET SIZE (IN.) | RECEIVER CAPACITY (GAL.) | DIMENSIONS | | | MANUFACTURER & MODEL NO. | REMARKS |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | L (IN) | W (IN) | H (IN) | | |
| SCP-1 | 15 | 1,400 | 2" | 2" | 24 | 39 | 32 | 50 | SPIRAX SARCO PPEC | DUPLEX |

## ELECTIRCAL RADIANT CEILING PANEL SCHEDULE

| PLAN CODE | WATTAGE | VOLTAGE / PHASE | TUBE SIZE | SIZE (IN x IN) | WEIGHT (LBS) | MANUFACTURER & MODEL NO. | REMARKS * |
|---|---|---|---|---|---|---|---|
| ERP-1 | 750 | 120/1 | 1/2" | GRID 24 X 48 | 30 | THERMAL EQUIPMENT CP750 | GYP CEILING WITH SILK-SCREEN FINISH |

* COORDINATE SILKSCREEN FINISH WITH ARCHITECT. PROVIDE 1" THICK 3/4 POUND FIBERGLASS BLANKET INSULATION INSTALLED ON BACK OF PANEL

## LOUVER SCHEDULE (L)

| PLAN CODE | CFM | VELOCITY (FPM) | FREE AREA (SF) | MAX DIMENSIONS (Wxh) (IN) | MANUFACTURER & MODEL NO |
|---|---|---|---|---|---|
| L-1 | 50,000 | 1060 | 47 | 86 x 120 | RUSKIN - ELF 6350DMP |

Copyright (C) 2012 by Colvin Engineering Associates, Inc. Salt Lake City, Utah. All rights reserved. Unauthorized copying and/or use is illegal and subject to prosecution.

10/2/2012 4:01:33 PM

VCBO ARCHITECTURE
ARCHITECTURE
VALENTINER
CRANE
BRUNJES
ONYON

VCBO ARCHITECTURE
524 SOUTH 600 EAST
SALT LAKE CITY, UT 84102
Phone: (801) 575-8800
Fax: (801) 531-9850
WWW: www.vcbo.com

DFCM CODE COMPLIANCE STAMP

# Student Activity Center
## Stromberg Addition - BID SET
Weber State University
3750 Harrison Blvd. Ogden, UT 84408

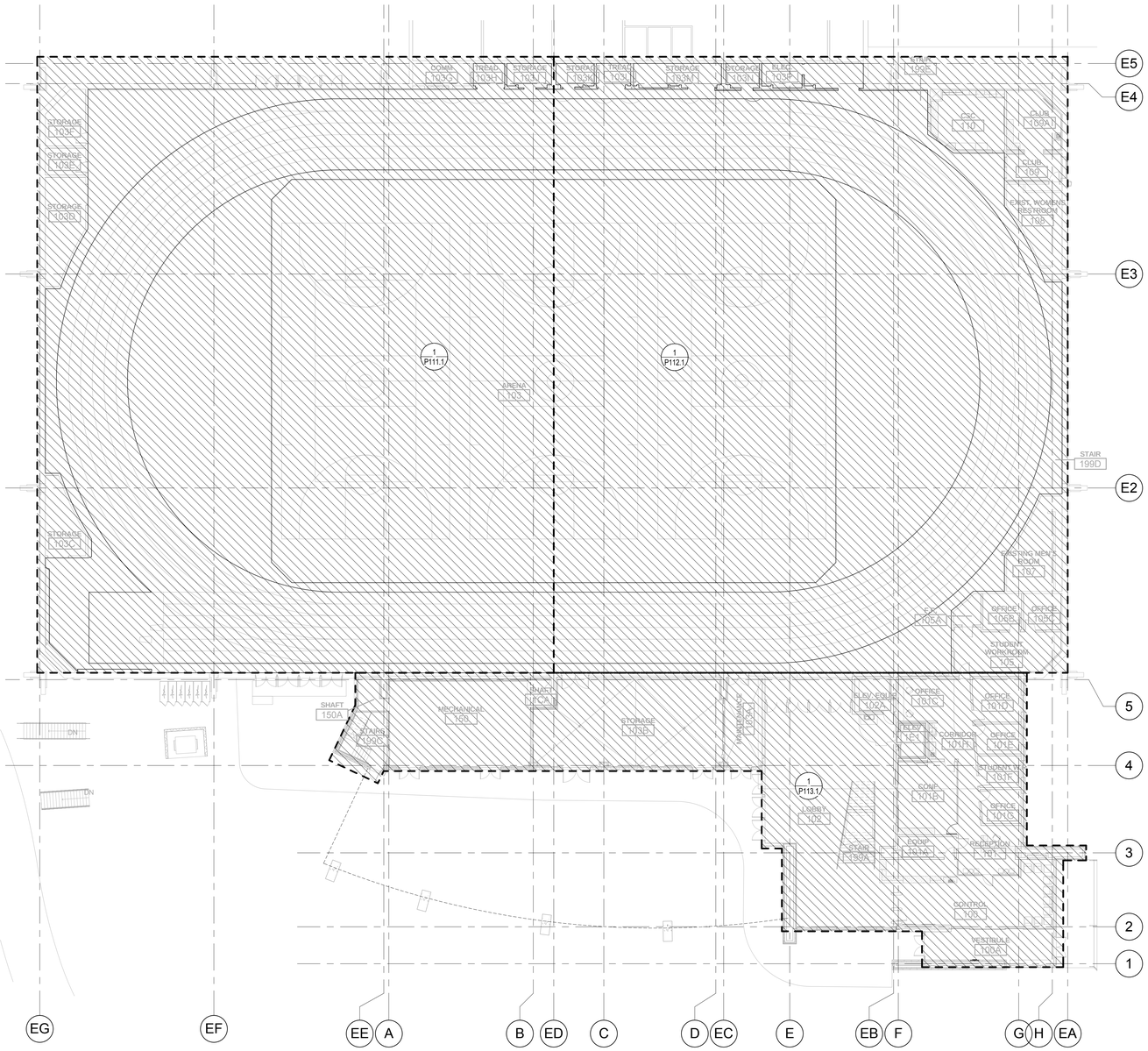
| Rev # | Date | Description |
|---|---|---|

Job # 2012-033.00
CAD File
Drawn TCF Checked BRC
Date 10.03.2012
Owner # DFCM #12031810

MECHANICAL SCHEDULES

M602

Colvin Engineering Associates, Inc.
244 West 300 North Suite 200
Salt Lake City, Utah 84103
Phone: (801) 322-2400 / Fax: (801) 322-2416




## KEYED NOTES

## GENERAL NOTES

A. ALL WASTE, ROOF DRAINS AND OVERFLOW DRAINS TO BE RUN AT 1/8" PER FOOT SLOPE UNLESS NOTED OTHERWISE.

B. PROVIDE ACCESS DOORS TO ALL MIXING VALVES, TRAP PRIMERS, SHUTOFF VALVES, ETC.

C. COORDINATE PLUMBING PIPING ROUTING AND LOCATION WITH ALL TRADES.

D. BUILDING EXPANSION JOINT AT GRID 5. PROVIDE FLEXIBLE CONNECTION TO MEET REQUIREMENTS.

E. DO NOT INSTALL CLEANOUTS ABOVE URINALS OR WATER CLOSETS. COORDINATE ALL CLEANOUT LOCATIONS IN WALLS WITH ARCHITECT.

1 FIRST FLOOR OVERALL PLUMBING PLAN

SCALE: 1/16" = 1'-0"

12' 0' 8' 16' 24' 32'

Copyright (C) 2012 by Colvin Engineering Associates, Inc. Salt Lake City, Utah. All rights reserved. Unauthorized copying and/or use is illegal and subject to prosecution.

10/2/2012 4:01:36 PM

VCBO
ARCHITECTURE
VALENTINER
CRANE
BRUNJES
ONYON

VCBO ARCHITECTURE
524 SOUTH 600 EAST
SALT LAKE CITY, UT 84102
Phone: (801) 575-8800
Fax: (801) 531-9850
WWW: www.vcbo.com

DFCM CODE COMPLIANCE STAMP

# Student Activity Center
## Stromberg Addition - BID SET
Weber State University
3750 Harrison Blvd. Ogden, UT 84408

| Rev # | Date | Description |
|---|---|---|

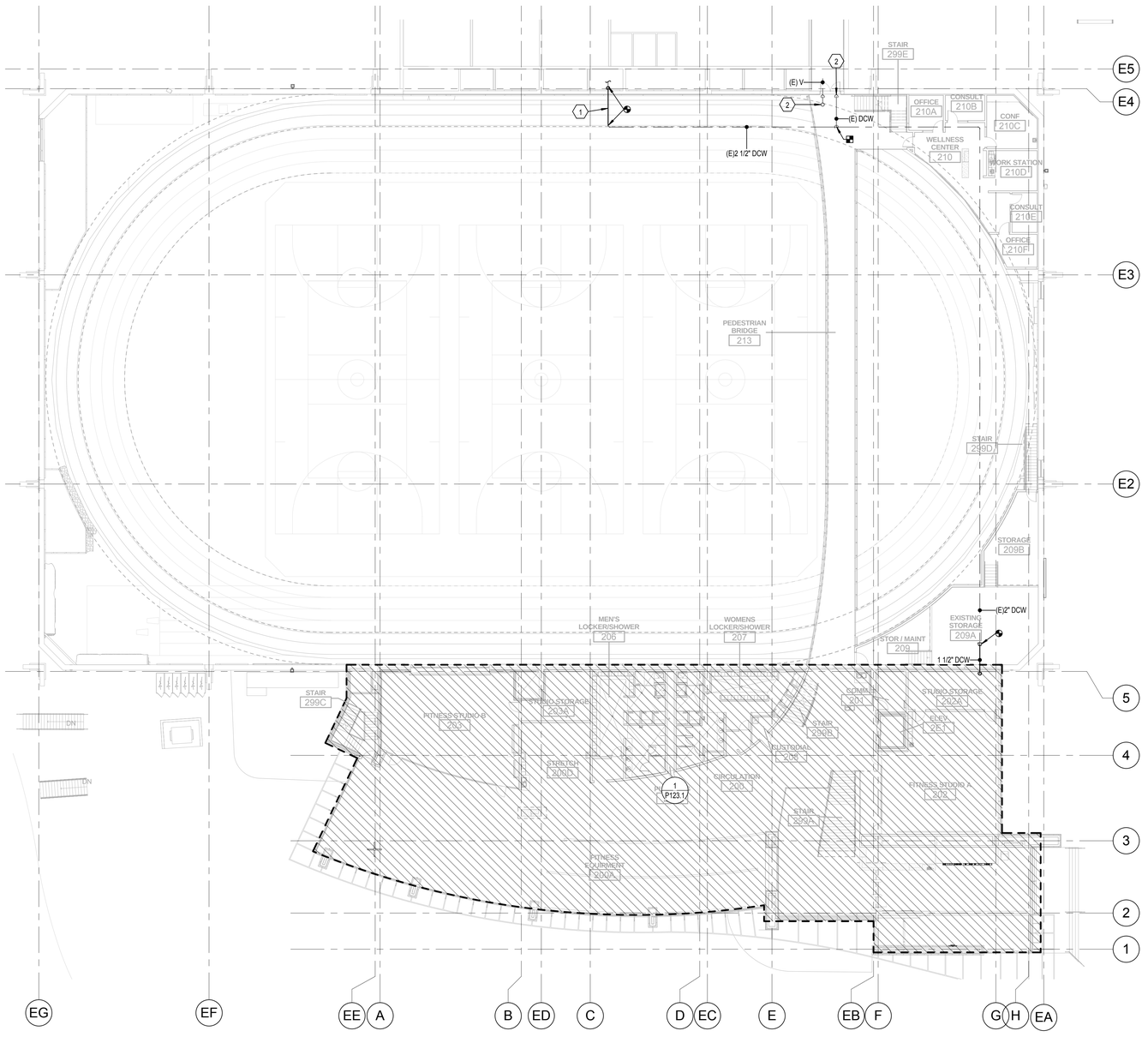
Shawn G. Colvin
No. 167524
10/3/2012
REGISTERED PROFESSIONAL ENGINEER
State of Utah

Colvin Engineering Associates, Inc.
244 West 300 North Suite 200
Salt Lake City, Utah 84103
Phone: (801) 322-2400 / Fax: (801) 322-2416

Job # 2012-033.00
CAD File
Drawn TCF Checked BRC
Date 10.03.2012
Owner # DFCM #12031810

FIRST FLOOR OVERALL PLUMBING PLAN

P101




## 1 SECOND FLOOR OVERALL PLUMBING PLAN

SCALE: 1/16" = 1'-0"

12' 0' 8' 16' 24' 32'

## KEYED NOTES

1 DISCONNECT EXISTING DOMESTIC COLD WATER. ROUTE NEW PIPE, SAME SIZE, IN NEW FURRED AREA WITH HYDRONIC PIPE.

2 REMOVE AND RELOCATE EXISTING VENT AND DOMESTIC COLD WATER PIPE IN CONFLICT WITH NEW TRACK. REROUTE AS REQUIRED ON SITE TO MAINTAIN SERVICE.

## GENERAL NOTES

A. ALL WASTE, ROOF DRAINS AND OVERFLOW DRAINS TO BE RUN AT 1/8" PER FOOT SLOPE UNLESS NOTED OTHERWISE.

B. PROVIDE ACCESS DOORS TO ALL MIXING VALVES, TRAP PRIMERS, SHUTOFF VALVES, ETC.

C. COORDINATE PLUMBING PIPING ROUTING AND LOCATION WITH ALL TRADES.

D. BUILDING EXPANSION JOINT AT GRID 5. PROVIDE FLEXIBLE CONNECTION TO MEET REQUIREMENTS.

E. DO NOT INSTALL CLEANOUTS ABOVE URINALS OR WATER CLOSETS. COORDINATE ALL CLEANOUT LOCATIONS IN WALLS WITH ARCHITECT.

Copyright (C) 2012 by Colvin Engineering Associates, Inc. Salt Lake City, Utah. All rights reserved. Unauthorized copying and/or use is illegal and subject to prosecution.

10/2/2012 4:01:42 PM

VCBO
ARCHITECTURE
VALENTINER
CRANE
BRUNJES
ONYON

VCBO ARCHITECTURE
524 SOUTH 600 EAST
SALT LAKE CITY, UT 84102
Phone: (801) 575-8800
Fax: (801) 531-9850
WWW: www.vcbo.com

DFCM CODE COMPLIANCE STAMP

# Student Activity Center
## Stromberg Addition - BID SET
Weber State University
3750 Harrison Blvd. Ogden, UT 84408

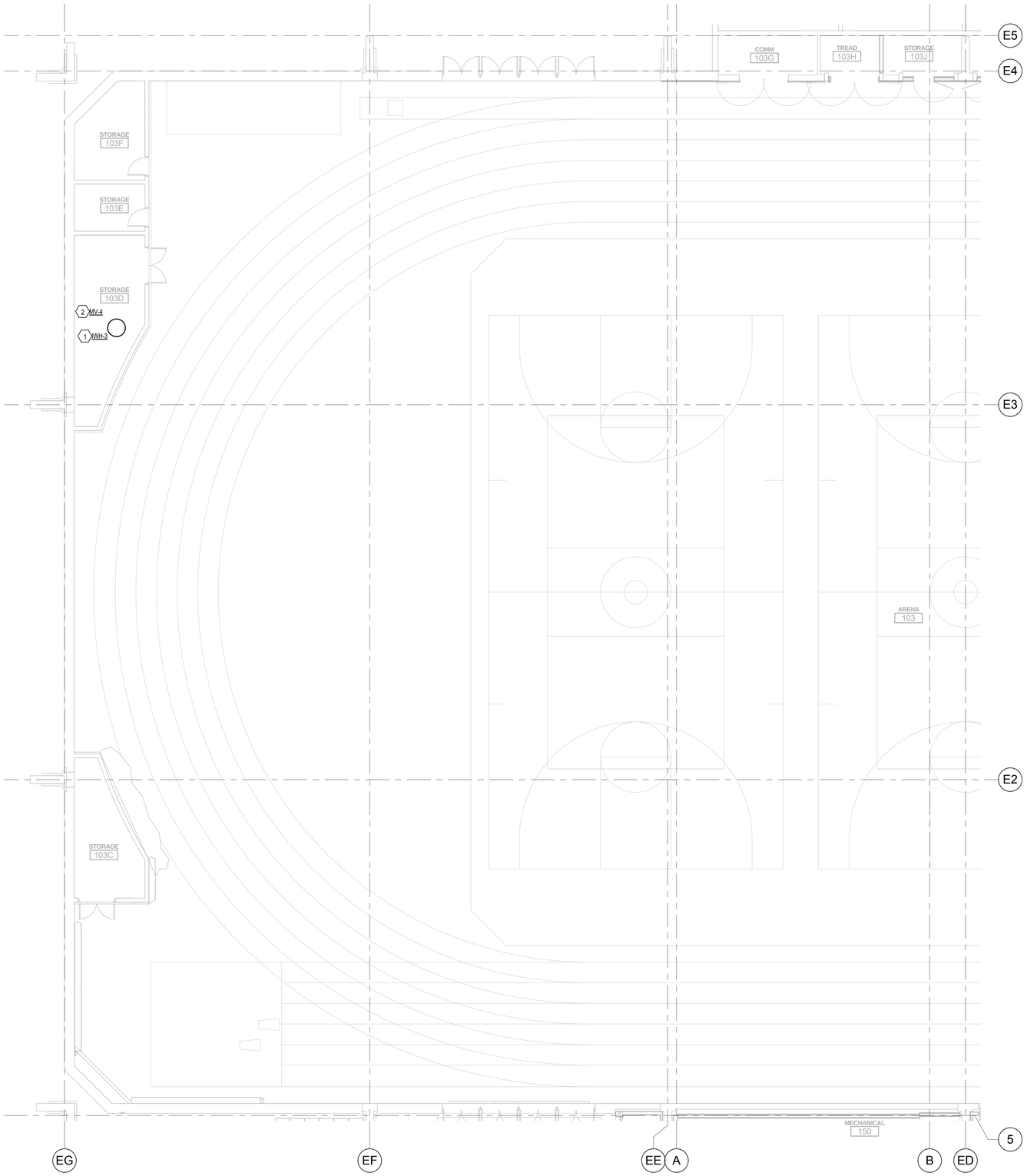
| Rev # | Date | Description |
|---|---|---|

Colvin Engineering Associates, Inc.
244 West 300 North Suite 200
Salt Lake City, Utah 84103
Phone: (801) 322-2400 / Fax: (801) 322-2416

Job # 2012-033.00
CAD File
Drawn TCF Checked BRC
Date 10.03.2012
Owner # DFCM #12031810

SECOND FLOOR OVERALL PLUMBING PLAN

P102




## KEYED NOTES

1 PROVIDE NEW INSTANTANEOUS WATER HEATER AS SHOWN. COORDINATE LOCATION ON SITE WITH OWNER AND ARCHITECT.

2 PROVIDE NEW MIXING VALVE AS SHOWN. COORDINATE LOCATION ON SITE WITH OWNER AND ARCHITECT.

## GENERAL NOTES

A. CONTRACTOR TO COORDINATE HEATING WATER SUPPLY AND RETURN PIPE ROUTING WITH ALL OTHER TRADES.

B. SEE REQUIRED DETAIL OF PIPE SLEEVE FOR INSULATED PIPE THRU WALL ON 11/ P501.

C. CONTRACTOR TO COORDINATE THE ELEVATOR EQUIPMENT AND ELECTRICAL ROOM AREAS TO NOT CONTAIN ANY PIPE ROUTING ABOVE.

D. BUILDING EXPANSION JOINT AT GRID 5. PROVIDE FLEXIBLE CONNECTION TO MEET REQUIREMENTS.

1 FIRST FLOOR AREA A PLUMBING PLAN

SCALE: 1/8" = 1'-0"

6' 0' 4' 8' 12' 16'

Copyright (C) 2012 by Colvin Engineering Associates, Inc. Salt Lake City, Utah. All rights reserved. Unauthorized copying and/or use is illegal and subject to prosecution.

10/2/2012 4:01:43 PM

VCBO
ARCHITECTURE
VALENTINER
CRANE
BRUNJES
ONYON

VCBO ARCHITECTURE
524 SOUTH 600 EAST
SALT LAKE CITY, UT 84102
Phone: (801) 575-8800
Fax: (801) 531-9850
WWW: www.vcbo.com

DFCM CODE COMPLIANCE STAMP

# Student Activity Center
## Stromberg Addition - BID SET
Weber State University
3750 Harrison Blvd. Ogden, UT 84408

| Rev # | Date | Description |
|---|---|---|

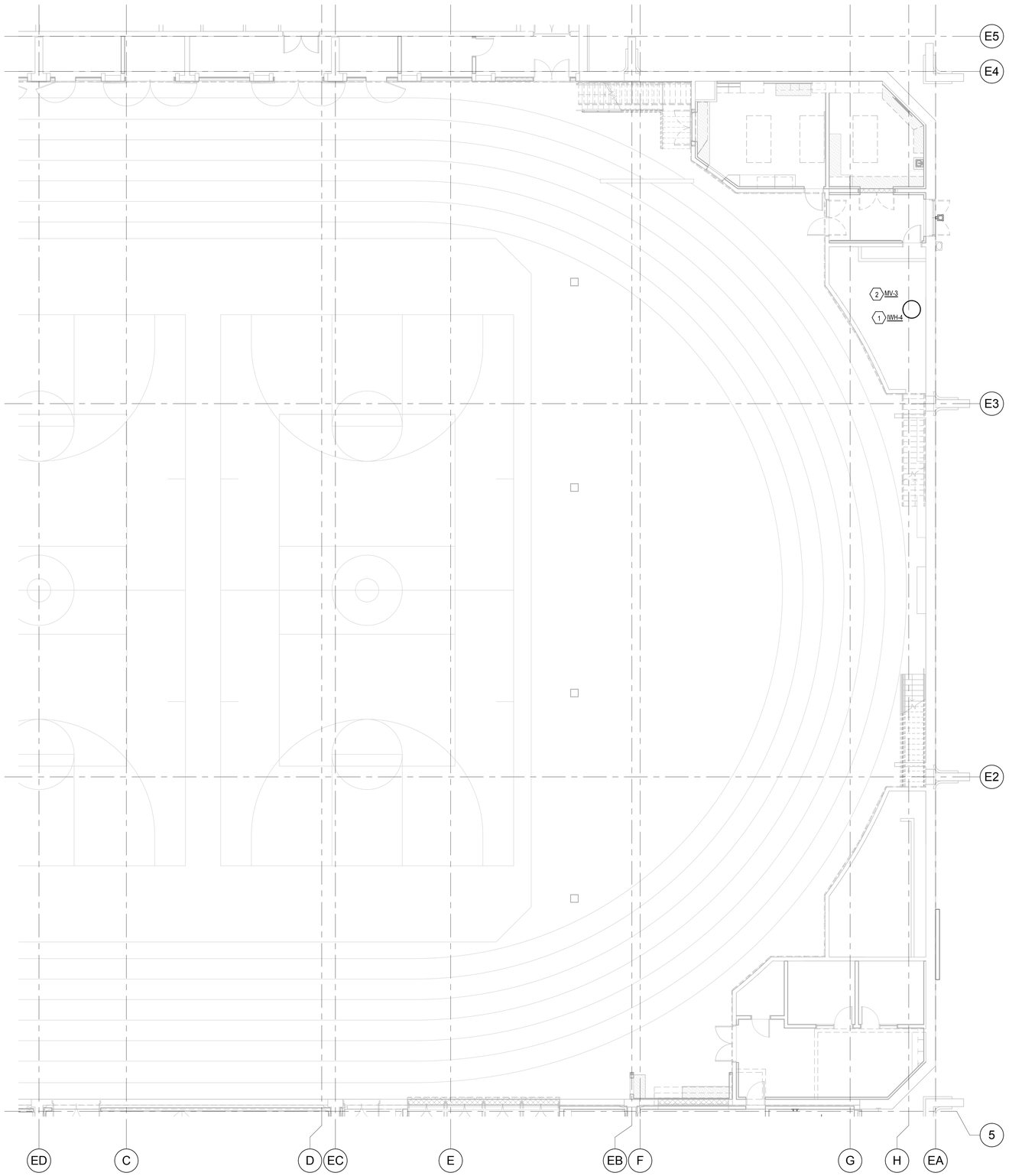
Stephen G. Colvin
Reg. No. 167524
10/03/2012
Registered Professional Engineer
State of Utah

Colvin Engineering Associates, Inc.
244 West 300 North Suite 200
Salt Lake City, Utah 84103
Phone: (801) 322-2400 / Fax: (801) 322-2416

Job # 2012-033.00
CAD File
Drawn TCF Checked BRC
Date 10.03.2012
Owner # DFCM #12031810

FIRST FLOOR AREA A PLUMBING PLAN

P111.1




## KEYED NOTES

1 PROVIDE NEW INSTANTANEOUS WATER HEATER AS SHOWN. COORDINATE LOCATION ON SITE WITH OWNER AND ARCHITECT.

2 PROVIDE NEW MIXING VALVE AS SHOWN. COORDINATE LOCATION ON SITE WITH OWNER AND ARCHITECT.

## GENERAL NOTES

A. ALL WASTE, ROOF DRAINS AND OVERFLOW DRAINS TO BE RUN AT 1/8" PER FOOT SLOPE UNLESS NOTED OTHERWISE.

B. PROVIDE ACCESS DOORS TO ALL MIXING VALVES, TRAP PRIMERS, SHUTOFF VALVES, ETC.

C. COORDINATE PLUMBING PIPING ROUTING AND LOCATION WITH ALL TRADES.

D. BUILDING EXPANSION JOINT AT GRID 5. PROVIDE FLEXIBLE CONNECTION TO MEET REQUIREMENTS.

E. DO NOT INSTALL CLEANOUTS ABOVE URINALS OR WATER CLOSETS. COORDINATE ALL CLEANOUT LOCATIONS IN WALLS WITH ARCHITECT.

1 FIRST FLOOR AREA B PLUMBING PLAN

SCALE: 1/8" = 1'-0"

6' 0' 4' 8' 12' 16'

Copyright (C) 2012 by Colvin Engineering Associates, Inc. Salt Lake City, Utah. All rights reserved. Unauthorized copying and/or use is illegal and subject to prosecution.

10/2/2012 4:01:45 PM

VCBO ARCHITECTURE
VALENTINER CRANE BRUNJES ONYON

VCBO ARCHITECTURE
524 SOUTH 600 EAST
SALT LAKE CITY, UT 84102
Phone: (801) 575-8800
Fax: (801) 531-9850
www: www.vcbo.com

DFCM CODE COMPLIANCE STAMP

# Student Activity Center
## Stromberg Addition - BID SET
Weber State University
3750 Harrison Blvd. Ogden, UT 84408

| Rev # | Date | Description |
|---|---|---|

Stephen C. Colvin 167524 10/3/2012 Registered Professional Engineer State of Utah

Colvin Engineering Associates, Inc.
244 West 300 North Suite 200
Salt Lake City, Utah 84103
Phone: (801) 322-2400 / Fax: (801) 322-2416

Job # 2012-033.00
CAD File
Drawn TCF Checked BRC
Date 10.03.2012
Owner # DFCM #12031810

FIRST FLOOR AREA B PLUMBING PLAN

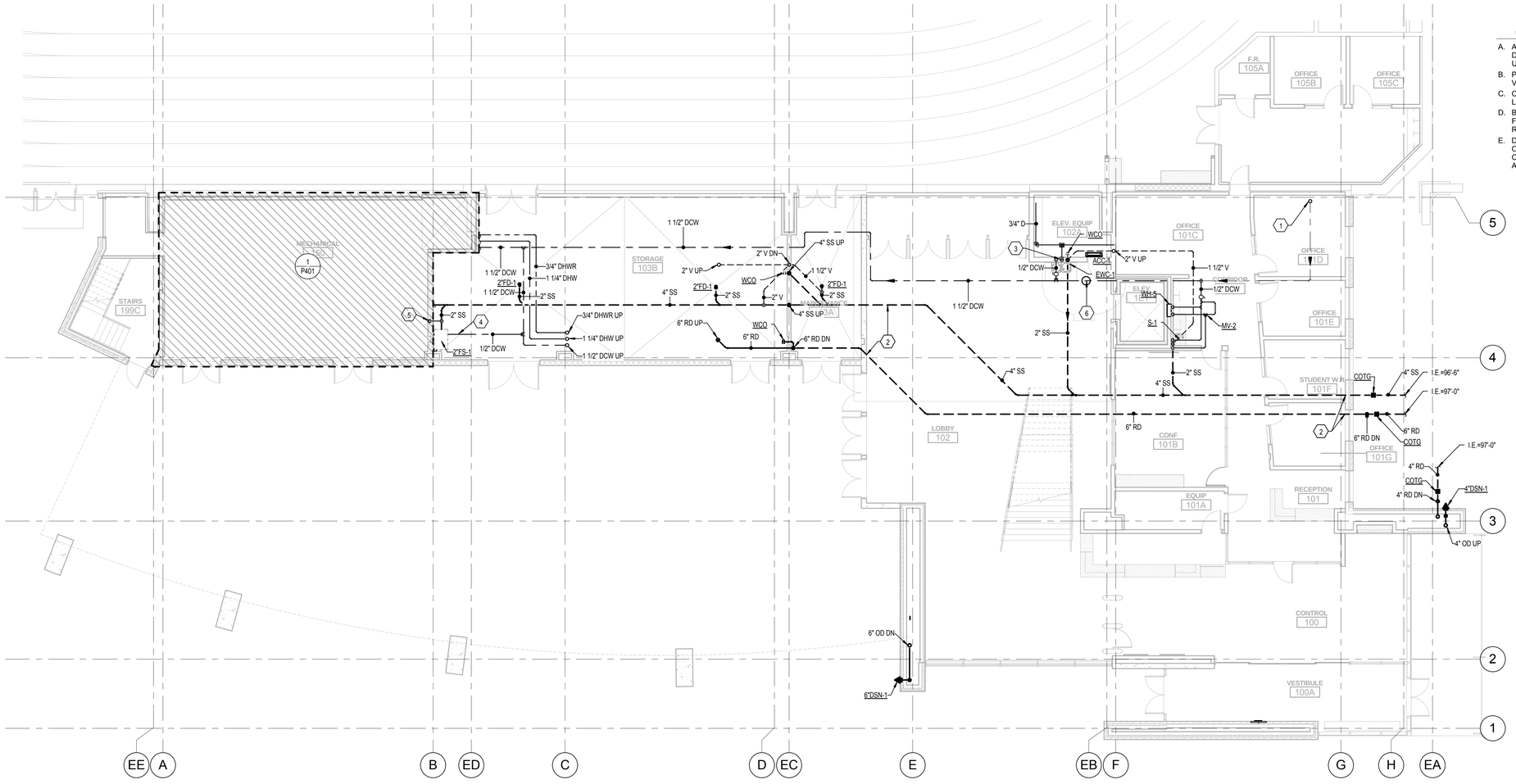
P112.1

## KEYED NOTES

1. DCW DROP DOWN TO BE ABOVE CEILING LEVEL. COORDINATE ON SITE EXACT LOCATION WITH ARCHITECT.
2. PROVIDE SLEEVE FOR PENETRATION COORDINATE LOCATION WITH STRUCTURAL PLANS.
3. CONNECT CONDENSATE DRAIN TO TAIL PIECE OF DRAIN TO DRINKING FOUNTAIN.
4. RUN 1/2" COLD WATER TO ICE MACHINE . PROVIDE BACKFLOW PREVENTER, SHUTOFF AND CONNECT AS REQUIRED.
5. 2" VENT FROM WASTE. CONNECT TO LINE OVERHEAD.
6. CONTRACTOR TO PROVIDE A DOMESTIC COLD WATER FLOW METER AT THIS LOCATION.

## GENERAL NOTES

A. ALL WASTE, ROOF DRAINS AND OVERFLOW DRAINS TO BE RUN AT 1/8" PER FOOT SLOPE UNLESS NOTED OTHERWISE.
B. PROVIDE ACCESS DOORS TO ALL MIXING VALVES, TRAP PRIMERS, SHUTOFF VALVES, ETC.
C. COORDINATE PLUMBING PIPING ROUTING AND LOCATION WITH ALL TRADES.
D. BUILDING EXPANSION JOINT AT GRID 5. PROVIDE FLEXIBLE CONNECTION TO MEET REQUIREMENTS.
E. DO NOT INSTALL CLEANOUTS ABOVE URINALS OR WATER CLOSETS. COORDINATE ALL CLEANOUT LOCATIONS IN WALLS WITH ARCHITECT.




1 FIRST FLOOR AREA C PLUMBING PLAN
SCALE: 1/8" = 1'-0"

6' 0' 4' 8' 12' 16'

Copyright (C) 2012 by Colvin Engineering Associates, Inc. Salt Lake City, Utah. All rights reserved. Unauthorized copying and/or use is illegal and subject to prosecution.

10/2/2012 4:01:48 PM

VCBO ARCHITECTURE
524 SOUTH 600 EAST
SALT LAKE CITY, UT 84102
Phone: (801) 575-8800
Fax: (801) 531-9850
WWW: www.vcbo.com

DFCM CODE COMPLIANCE STAMP

# Student Activity Center
## Stromberg Addition - BID SET
Weber State University
3750 Harrison Blvd. Ogden, UT 84408

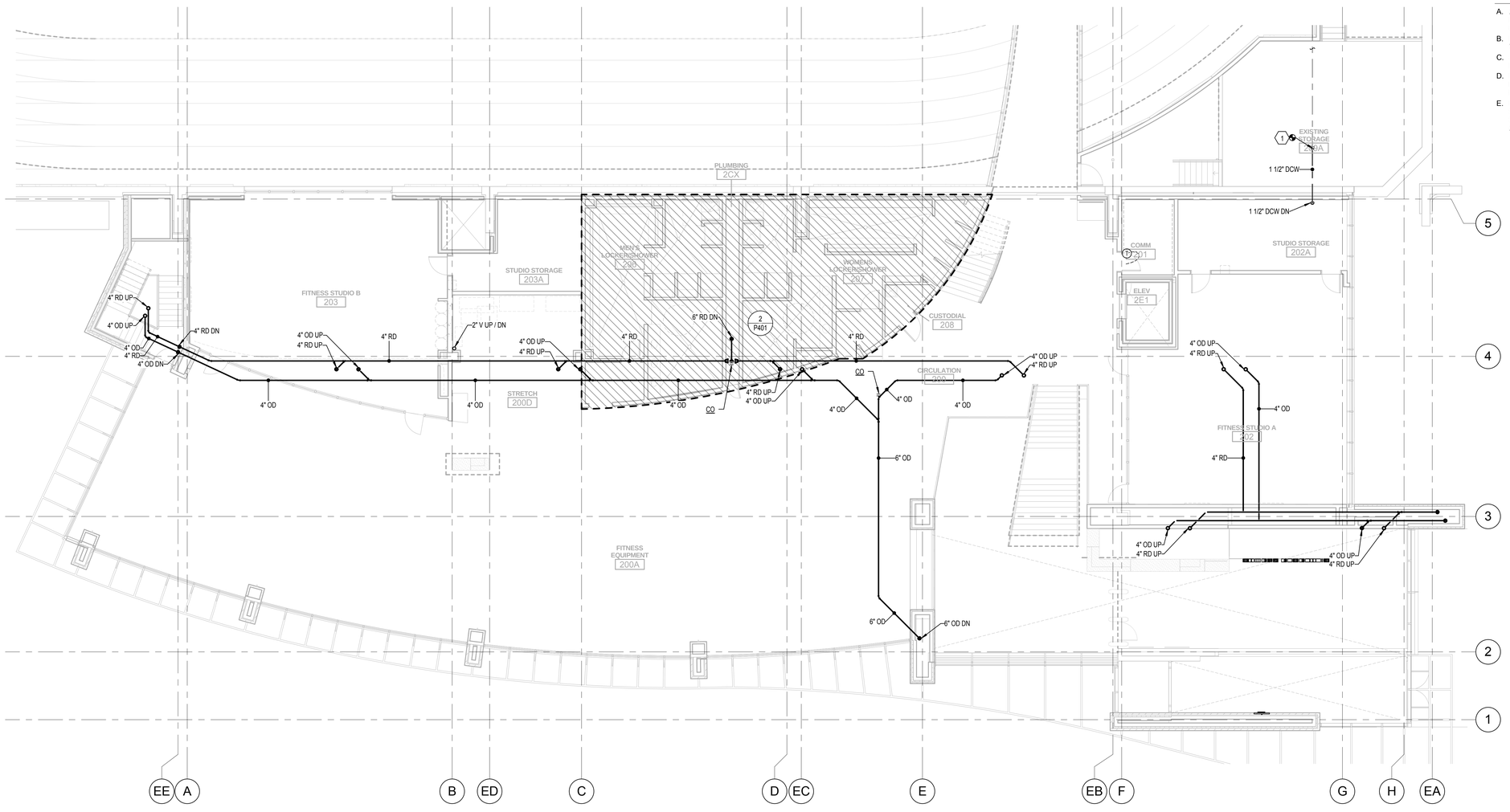
| Rev # | Date | Description |
|---|---|---|

Job # 2012-033.00
CAD File
Drawn TCF Checked BRC
Date 10.03.2012
Owner # DFCM #12031810

FIRST FLOOR AREA C PLUMBING PLAN

Colvin Engineering Associates, Inc.
244 West 300 North Suite 200
Salt Lake City, Utah 84103
Phone: (801) 322-2400 / Fax: (801) 322-2416

P113.1




1 SECOND FLOOR AREA C PLUMBING PLAN

SCALE: 1/8" = 1'-0"

6' 0' 4' 8' 12' 16'

## KEYED NOTES

1 TIE NEW LINE INTO EXISTING AT LEVEL OF GYM.

## GENERAL NOTES

A. ALL WASTE, ROOF DRAINS AND OVERFLOW DRAINS TO BE RUN AT 1/8" PER FOOT SLOPE UNLESS NOTED OTHERWISE.

B. PROVIDE ACCESS DOORS TO ALL MIXING VALVES, TRAP PRIMERS, SHUTOFF VALVES, ETC.

C. COORDINATE PLUMBING PIPING ROUTING AND LOCATION WITH ALL TRADES.

D. BUILDING EXPANSION JOINT AT GRID 5. PROVIDE FLEXIBLE CONNECTION TO MEET REQUIREMENTS.

E. DO NOT INSTALL CLEANOUTS ABOVE URINALS OR WATER CLOSETS. COORDINATE ALL CLEANOUT LOCATIONS IN WALLS WITH ARCHITECT.

Copyright (C) 2012 by Colvin Engineering Associates, Inc. Salt Lake City, Utah. All rights reserved. Unauthorized copying and/or use is illegal and subject to prosecution.

10/2/2012 4:01:52 PM

VCBO ARCHITECTURE
524 SOUTH 600 EAST
SALT LAKE CITY, UT 84102
Phone: (801) 575-8800
Fax: (801) 531-9850
www: www.vcbo.com

DFCM CODE COMPLIANCE STAMP

# Student Activity Center
## Stromberg Addition - BID SET
Weber State University
3750 Harrison Blvd. Ogden, UT 84408

| Rev # | Date | Description |
|---|---|---|

Stephen G. Colvin — 167524 — 10/3/2012 — State of Utah

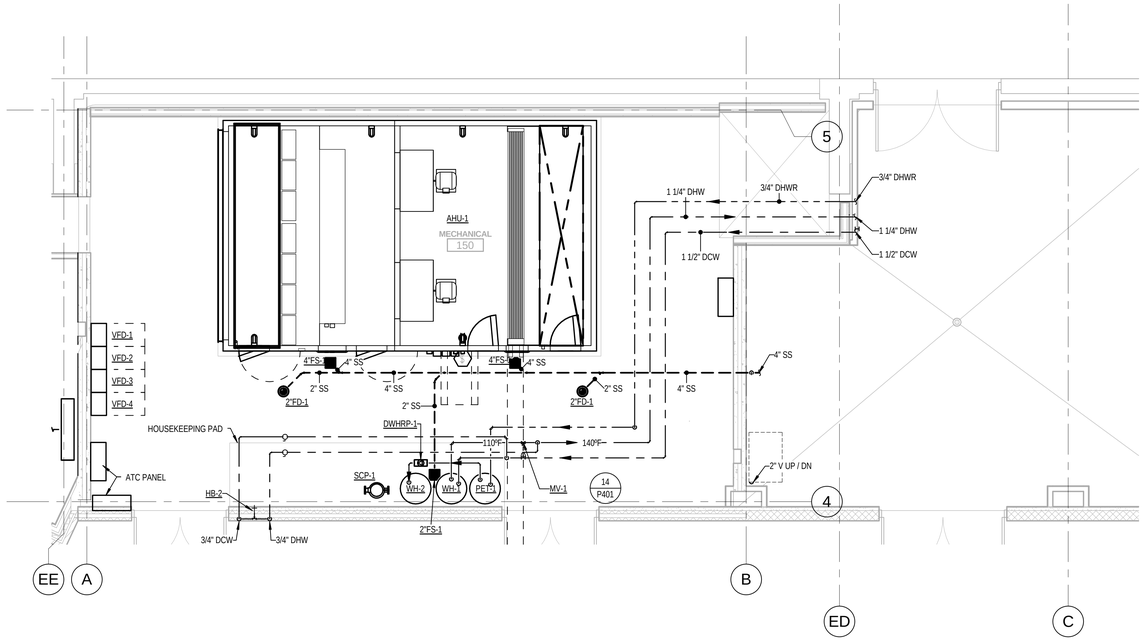
Colvin Engineering Associates, Inc.
244 West 300 North Suite 200
Salt Lake City, Utah 84103
Phone: (801) 322-2400 / Fax: (801) 322-2416

Job # 2012-033.00
CAD File
Drawn TCF Checked BRC
Date 10.03.2012
Owner # DFCM #12031810

SECOND FLOOR AREA C PLUMBING PLAN

P123.1

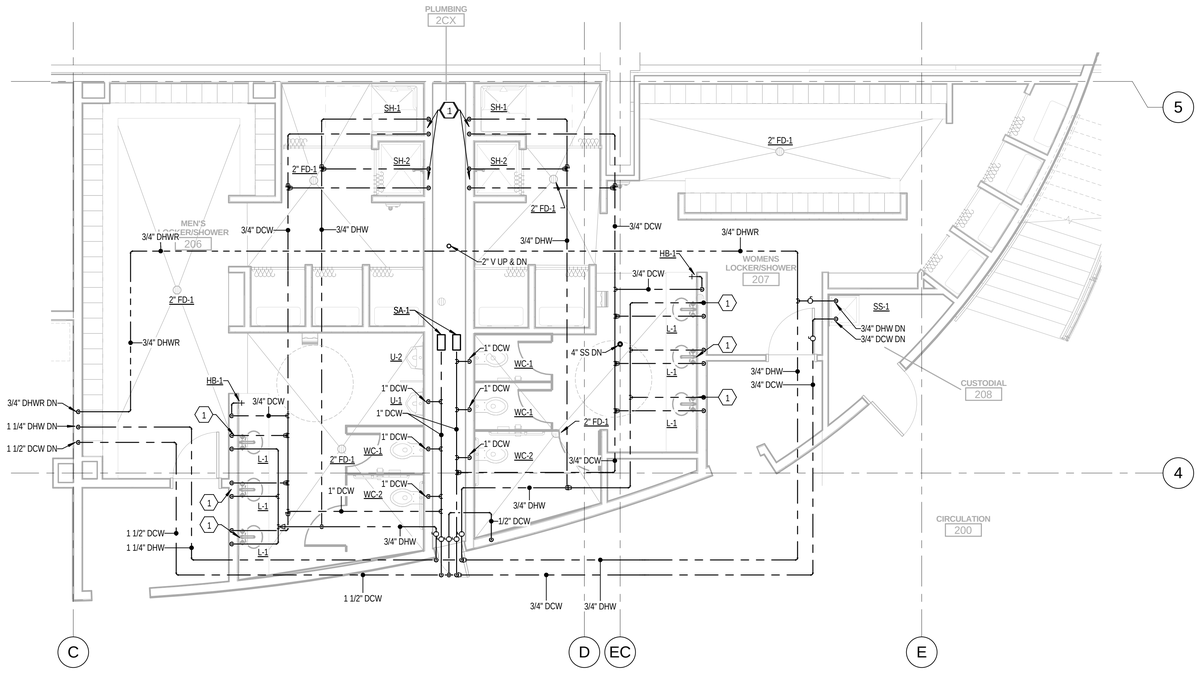
Copyright (C) 2012 by Colvin Engineering Associates, Inc. Salt Lake City, Utah. All rights reserved. Unauthorized copying and/or use is illegal and subject to prosecution.




1 ENLARGED MECHANICAL ROOM PLUMBING PLAN

SCALE: 1/4" = 1'-0"

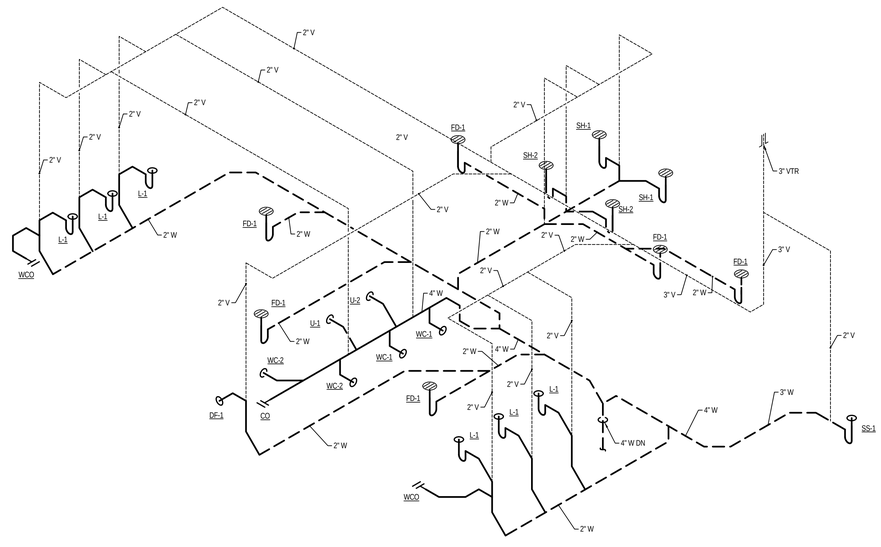
3' 0' 2' 4' 6' 8'




2 ENLARGED SECOND FLOOR MENS AND WOMENS LOCKER ROOMS PLUMBING PLAN

SCALE: 1/4" = 1'-0"

3' 0' 2' 4' 6' 8'




SECOND FLOOR WASTE AND VENT ISOMETRIC

SCALE: 1/4" = 1'-0"

## KEYED NOTES

1 PROVIDE 1/2" DCW AND 1/2 DHW.

## GENERAL NOTES

A. ALL WASTE, ROOF DRAINS AND OVERFLOW DRAINS TO BE RUN AT 1/8" PER FOOT SLOPE UNLESS NOTED OTHERWISE.

B. PROVIDE ACCESS DOORS TO ALL MIXING VALVES, TRAP PRIMERS, SHUTOFF VALVES, ETC.

C. COORDINATE PLUMBING PIPING ROUTING AND LOCATION WITH ALL TRADES.

D. BUILDING EXPANSION JOINT AT GRID 5. PROVIDE FLEXIBLE CONNECTION TO MEET REQUIREMENTS.

E. DO NOT INSTALL CLEANOUTS ABOVE URINALS OR WATER CLOSETS. COORDINATE ALL CLEANOUT LOCATIONS IN WALLS WITH ARCHITECT.

VCBO
ARCHITECTURE
VALENTINER
CRANE
BRUNJES
ONYON

VCBO ARCHITECTURE
524 SOUTH 600 EAST
SALT LAKE CITY, UT 84102
Phone: (801) 575-8800
Fax: (801) 531-9850
www: www.vcbo.com

DFCM CODE COMPLIANCE STAMP

# Student Activity Center
## Stromberg Addition - BID SET
Weber State University
3750 Harrison Blvd. Ogden, UT 84408

| Rev # | Date | Description |
|---|---|---|

Job # 2012-033.00
CAD File
Drawn TCF Checked BRC
Date 10.03.2012
Owner # DFCM #12031810

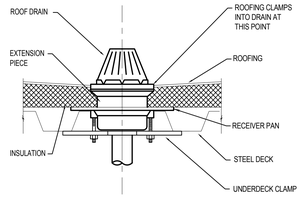
ENLARGED PLUMBING PLANS

P401

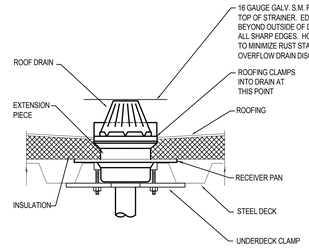
Colvin Engineering Associates, Inc.
244 West 300 North Suite 200
Salt Lake City, Utah 84103
Phone: (801) 322-2400 / Fax: (801) 322-2416

10/2/2012 4:11:27 PM

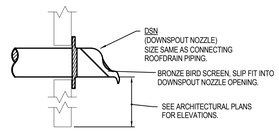
Copyright (C) 2012 by Colvin Engineering Associates, Inc. Salt Lake City, Utah. All rights reserved. Unauthorized copying and/or use is illegal and subject to prosecution.



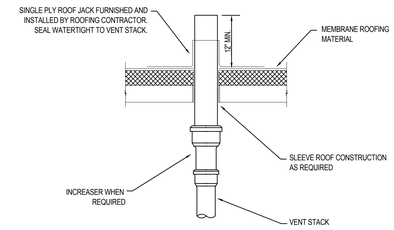

1 ROOF DRAIN DETAIL
NO SCALE



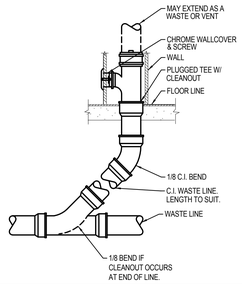

2 OVERFLOW ROOF DRAIN WITH HOOD DETAIL
NO SCALE



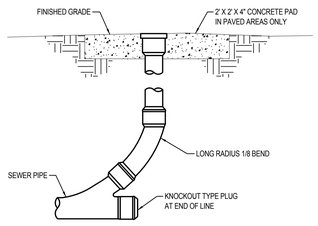

3 DOWNSPOUT NOZZLE DETAIL
NO SCALE



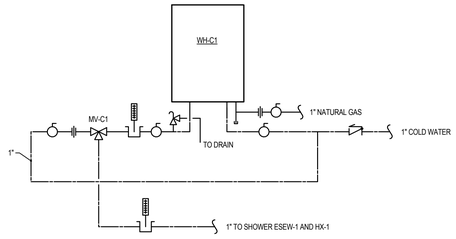

4 VENT THROUGH ROOF DETAIL
NO SCALE



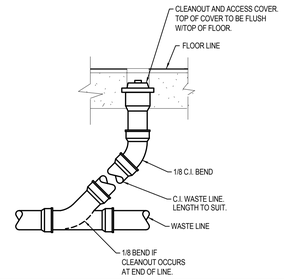

5 WALL CLEANOUT DETAIL
NO SCALE



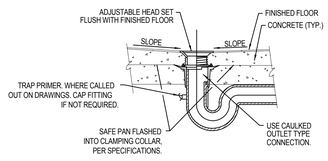

6 SURFACE CLEANOUT DETAIL
NO SCALE



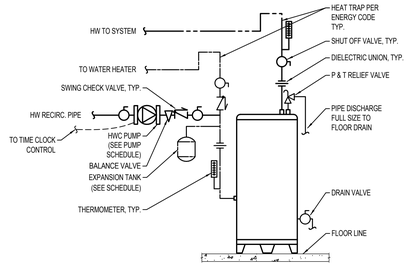

7 INSTANTANEOUS WATER HEATER DETAIL
NO SCALE



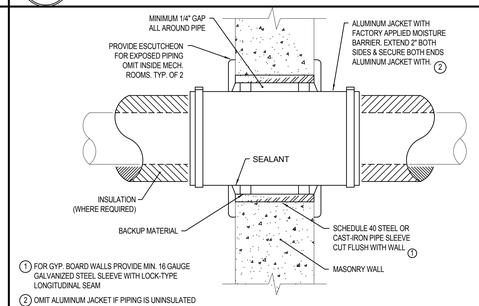

8 FLOOR CLEANOUT DETAIL
NO SCALE




9 TYPICAL FLOOR DRAIN IN SUSPENDED SLAB DETAIL
NO SCALE




10 ELECTRIC WATER HEATER PIPING DETAIL
NO SCALE




11 PIPE SLEEVE FOR INSULATED PIPE THROUGH WALL
NO SCALE

12
NO SCALE

13
NO SCALE

14
NO SCALE

16
NO SCALE

16
NO SCALE

VCBO ARCHITECTURE
VALENTINER CRANE BRUNJES ONYON

VCBO ARCHITECTURE
524 SOUTH 600 EAST
SALT LAKE CITY, UT 84102
Phone: (801) 575-8800
Fax: (801) 531-9850
WWW: www.vcbo.com

DFCM CODE COMPLIANCE STAMP

# Student Activity Center
## Stromberg Addition - BID SET
Weber State University
3750 Harrison Blvd. Ogden, UT 84408

| Rev # | Date | Description |
|---|---|---|

Stephen G. Colvin — Registered Professional Engineer — 7524 — 10/3/2012 — State of Utah

Colvin Engineering Associates, Inc.
244 West 300 North Suite 200
Salt Lake City, Utah 84103
Phone: (801) 322-2400 / Fax: (801) 322-2416

Job # 2012-033.00
CAD File
Drawn TCF Checked BRC
Date 10.03.2012
Owner # DFCM #12031810

PLUMBING DETAILS

P501

10/2/2012 4:01:56 PM

# CONDENSATE PUMP SCHEDULE (CP)

| PLAN CODE | CAP (GPM) | HEAD (FT) | PRESS (PSI) | ELECTRICAL | | DISCHARGE SIZE (IN) | INLET SIZE (IN) | RECEIVER CAPACITY (GAL) | MAX DIMENSIONS | | | MANUFACTURER & MODEL NO |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | VOLT/ PH | HP | | | | L (IN) | W (IN) | H (IN) | |
| CP-1 | 1 | 4-6 | 8 | 115/1 | 1/30 | 1/2"" | 1/2" | 1/4 | 12 | 5 | 5 | LITTLE GIANT |

# EXPANSION TANK SCHEDULE (PET)

| PLAN CODE | SYSTEM SERVED | WATER TEMP. (°F) | % GLYCOL | TANK VOL. (GAL) | ACCEPTANCE VOL. (GAL) | PRE-CHARGE (PSI) | MAX. DIMENSIONS | | | MANUFACTURER & MODEL NO. | REMARKS |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | DIA. (IN.) | H (IN.) | OPERATING WT. (LBS) | | |
| PET-1 | DOMESTIC WATER | 140 | 0 | 3.2 | 1.9 | 50 | 9 | 15 | 25 | AMTROL ST-8 | - |

# WATER METER SCHEDULE (WM)

| PLAN CODE | SERVICE | FLOW RANGE (GPM) | TYPE | SENSOR | ELECTRIC VOLT/ PH | MANUFACTURER & MODEL NO |
|---|---|---|---|---|---|---|
| WM-1 | DOMESTIC COLD WATER | 2 - 60 | MULTI JET | HALL-EFFECT SENSOR | 120/1 | - |
| WM-2 | HWR | 2 - 40 | MULTI JET | HALL-EFFECT SENSOR | 120/1 | - |
| WM-3 | STEAM | - | MULTI JET | HALL-EFFECT SENSOR | 120/1 | - |
| WM-4 | CHILLED WATER | 2 -200 | MULTI JET | HALL-EFFECT SENSOR | 120/1 | - |

# DOMESTIC HOT WATER RECIRCULATION PUMP SCHEDULE

| PLAN CODE | DUTY | GPM | FEET OF HEAD | PUMP RPM | MOTOR | | MANUFACTURER & MODEL NO. | REMARKS |
|---|---|---|---|---|---|---|---|---|
| | | | | | H.P. | VOLTAGE & PHASE | | |
| DCP-1 | DOMESTIC HOT WATER RECIRC. | 5 | 15 | 3500 | 0.12 | 120/1 | BELL & GOSSETT PL36 | INLINE BRONZE |

# MIXING VALVE SCHEDULE (MV) (1) (2)

| PLAN CODE | AREA SERVED | INLET SIZE | OUTLET SIZE | MINIMUM FLOW GPM | MAXIMUM FLOW GPM | MANUFACTURER & MODEL NO. |
|---|---|---|---|---|---|---|
| MV-1 | MASTER MECHANICAL ROOM | 1" | 1" | 0.5 | 13.5 | LEONARD 470 |
| MV-2 | POINT OF USE | 3/8" | 3/8" | 0.5 | 5 | LEONARD 170-LF |
| MV-3 | EXISTING BLDG POINT OF USE | 3/8" | 3/8" | 0.5 | 5 | LEONARD 170-LF |
| MV-4 | EXISTING BLDG POINT OF USE | 3/8" | 3/8" | 0.5 | 5 | LEONARD 170-LF |

(1) PROVIDE STAINLESS STEEL STRAINER, PORTS AND INTERNALS. (2) ASSE 1070

# PLUMBING FIXTURE SCHEDULE

| PLAN CODE | DESCRIPTION | ROUGH-IN SIZE | | | | | | MANUFACTURE |
|---|---|---|---|---|---|---|---|---|
| | | C.W. | H.W. | TEMPERED | WASTE | VENT | STORM | |
| WC-1 | WATER CLOSET, WALL MOUNT, MANUAL DUAL FLUSH VALVE, CLASS 5 FLUSHING SYSTEM, ELONGATED BOWL, VITREOUS CHINA 1.28 GPF | 1" | - | - | 4" | 2" | - | AMERICAN STANDARD "AFWALL FLOWISE" 3351.128<br>SEAT: OLSONITE #95C<br>FLUSH VALVE: ZURN Z 6000 AV-WSI_DF DUAL FLUSH OR EQUIVALENT<br>COLOR: WHITE<br>SEE ARCHITECTURAL PLANS FOR MOUNTING HEIGHT. |
| WC-2 | WATER CLOSET, ADA COMPLIANT, WALL MOUNT, MANUAL DUAL FLUSH VALVE, CLASS 5 FLUSHING SYSTEM, ELONGATED BOWL, VITREOUS CHINA 1.28 GPF | 1" | - | - | 4" | 2" | - | AMERICAN STANDARD "AFWALL FLOWISE" 3351.128<br>SEAT: OLSONITE #10SSC<br>FLUSH VALVE: ZURN Z 6000 AV-WSI_DF DUAL FLUSH OR EQUIVALENT<br>COLOR: WHITE<br>SEE ARCHITECTURAL PLANS FOR MOUNTING HEIGHT. |
| U-1 | URINAL, VITREOUS CHINA, SIPHON JET, MANUAL FLUSH VALVE, 1/4 GPF | 3/4" | - | - | 2" | 1 1/2" | - | AMERICAN STANDARD "WASHBROOK" 6501.610<br>FLUSH VALVE: ZURN Z6003AV-ULF<br>COLOR: WHITE SEE ARCHITECTURAL PLANS FOR MOUNTING HEIGHT. |
| U-2 | URINAL, ADA COMPLIANT, VITREOUS CHINA, SIPHON JET, MANUAL FLUSH VALVE, 1/4 GPF | 3/4" | - | - | 2" | 1 1/2" | - | AMERICAN STANDARD "WASHBROOK" 6501.610<br>FLUSH VALVE: ZURN Z6003AV-ULF<br>COLOR: WHITE SEE ARCHITECTURAL PLANS FOR MOUNTING HEIGHT. |
| L-1 | ROUND, ADA COMPLIANT, VITREOUS CHINA, UNDER COUNTER MOUNTED LAVATORY, MANUAL TWO HANDLE FAUCET, GRID DRAIN 0.5 GPM FLOW | 1/2" | 1/2" | - | 1 1/2" | 1 1/2" | - | AMERICAN STANDARD OVALYN<br>FAUCET: MOEN 8211 WITH 0.5 GPM AERATOR<br>WITH DRAIN ASSEMBLY. OR EQUAL |
| S-1 | SINGLE COMPARTMENT, RECTANGULAR STAINLESS STEEL, COUNTER MOUNT SINK, GOOSENECK SWING SPOUT WITH WING HANDLES, 0.5 GPM 18 GA. | 1/2" | 1/2" | - | 1 1/2" | 1 1/4" | - | BOWL: ELKAY DLFR 1918<br>FAUCET: MOEN CA8940<br>STRAINER: ELKAY LK-35 . OR EQUAL<br>BOWL DEPTH: 10" |
| SH-1 | SINGLE LEVER, ADA COMPLIANT, PRESSURE BALANCING MIXING VALVE, SHOWER HEAD, HAND SPRAYER, 1.5 GPM | 1/2" | 1/2" | - | 1 1/2" | 1 1/2" | - | SYMMONS #96-500-B30-L-V-X-295 WITH HAND SPRAY, WALL SHOWER HEAD, AND BAR SLIDE. PROVIDE WITH LOW FLOW SHOWER HEAD AND LOW FLOW HAND SPRAY. PROVIDE WITH J.R. SMITH MANUFACTURING COMPANY FIG. 2005Y DUCO CAST IRON FLOOR DRAIN. DRAIN TO BE PROVIDED WITH 2" OUTLET, ROUND NICKEL BRONZE STRAINER HEAD, SEDIMENT BUCKET, AND VANDAL PROOF SCREWS. STRAINER HEAD MUST BE HEEL PROOF. SHOWER HEAD TO BE OXIGENICS OR EQUAL. |
| SH-2 | SINGLE LEVER, PRESSURE BALANCING MIXING VALVE, SHOWER HEAD, 1.5 GPM | 1/2" | 1/2" | - | 1 1/2" | 1 1/2" | - | SYMMONS #96-500-B30-L-V-X-295 LOW FLOW SHOWER HEAD WITH SINGLE HANDLE PRESSURE BALANCING VALVE. PROVIDE WITH J.R. SMITH MANUFACTURING COMPANY FIG. 2005Y DUCO CAST IRON FLOOR DRAIN. DRAIN TO BE PROVIDED WITH 2" OUTLET, ROUND NICKEL BRONZE STRAINER HEAD, SEDIMENT BUCKET, AND VANDAL PROOF SCREWS. STRAINER HEAD MUST BE HEEL PROOF. SHOWER HEAD TO BE OXIGENICS OR EQUAL. |
| DF-1 | ADA COMPLIANT, BARRIER FREE, STAINLESS STEEL, SURFACE MOUNT ELECTRIC WATER COOLER WITH BOTTLE FILLING STATION | 3/8" | - | - | 1 1/2" | 1 1/4" | - | ELKAY #LZSTL8WSLK (ADA), BI-LEVEL FILTERED COOLER WITH BOTTLE FILLING STATION. 15 AMP, 115 VOLT, 60 HZ, SINGLE PHASE. |
| SS-1 | SERVICE SINK, MOLDED STONE, WITH RIM GUARD, 3" GRID DRAIN AND FAUCET WITH VACUUM BREAKER, HANDLES, LOOSE KEY STOPS, BOTTOM BRACE, CHROME FINISH. | 3/4" | 3/4" | - | 3" | 2" | - | SINK: FIAT MSB-2424 WITH 1453-BB STRAINER AND E-77-AA RIM GUARD.<br>FAUCET: MOEN 8230 WITH TOP BRACE AND VACUUM BREAKER. OR EQUAL |
| FD-1 | FLOOR DRAIN (INDOOR FINISHED AREA USE) | - | - | - | SEE PLANS | 1 1/2" | - | J.R. SMITH MANUFACTURING COMPANY FIG. 2005Y DUCO CAST IRON FLOOR DRAIN. DRAIN TO BE PROVIDED WITH SQUARE NICKEL BRONZE STRAINER HEAD, DEEP SEAL P-TRAP AND VANDAL PROOF SCREWS. TRAP PRIMER CONNECTION CAPPED IF NOT USED, STRAINER HEAD MUST BE HEEL PROOF, DEEP SEAL TRAP. OR EQUAL. |
| FS-1 | FLOOR SINK | - | - | - | SEE PLANS | 1 1/2" | - | J.R. SMITH MANUFACTURING COMPANY FIG. 3150-Y-ASB SQUARE FLOOR SINK. FLOOR SINK SHALL BE OF CAST IRON CONSTRUCTION WITH ENAMEL INTERIOR FINISH, MINIMUM INTERIOR DIMENSIONS OF 12"x12"x8"D. PROVIDE WITH NICKEL BRONZE GRATE AND DEEP SEAL P-TRAP. SEE FOOD SERVICE EQUIPMENT PLANS FOR GRATE REQUIRED IN KITCHEN. OR EQUAL. PROVIDE HEAVY DUTY GRATE IN MECHANICAL ROOMS. |
| WCO | WALL CLEANOUT | - | - | - | - | 4" | - | J.R. SMITH MANUFACTURING COMPANY SERIES 4530, CAST IRON CLEANOUT TEE, ABS PLUG, STAINLESS STEEL COVER WITH VANDAL PROOF SECURITY SCREWS. OR EQUAL. |
| FCO | FLOOR CLEANOUT | - | - | - | - | 4" | - | J.R. SMITH MANUFACTURING COMPANY SERIES 4020, CAST IRON ADJUSTABLE BODY, ABS PLUG, VANDAL PROOF SECURITY SCREWS. OR EQUAL. |
| RD-1 | ROOF DRAIN - PRIMARY | - | - | - | - | - | SEE PLANS | J.R. SMITH MODEL 1010C-CID LARGE GENERAL PURPOSE ROOF DRAIN. ROOF DRAIN SHALL BE PROVIDED WITH DUCO CAST IRON BODY, REVERSIBLE COLLAR, COMBINED FLASHING CLAMP AND GRAVEL STOP WITH NEOPRENE GASKET, CAST IRON DOME, SUMP RECEIVER, UNDERDECK CLAMP, TWO PIECE BODY WITHOUT ADJUSTABLE EXTENSION AND VANDAL PROOF SECURITY SCREWS, OR EQUAL. |
| OD-1 | ROOF DRAIN - SECONDARY | - | - | - | - | - | SEE PLANS | J.R. SMITH MODEL 1010C-CID GENERAL PURPOSE OVERFLOW DRAIN. OVERFLOW DRAIN SHALL BE PROVIDED WITH DUCO CAST IRON BODY, REVERSIBLE COLLAR, COMBINED FLASHING CLAMP AND GRAVEL STOP WITH NEOPRENE GASKET, CAST IRON DOME, SUMP RECEIVER, UNDERDECK CLAMP, TWO PIECE BODY WITHOUT ADJUSTABLE EXTENSION, VANDAL PROOF SECURITY SCREWS, OR EQUAL. MOUNT 2" HIGHER THAN RD-1. |
| DSN-1 | DOWN SPOUT NOZZLE | - | - | - | - | - | SEE PLANS | J.R. SMITH SERIES 1770 WITH WALL FLANGE. PROVIDE BIRD SCREEN. |
| SC-1 | SILLCOCK (OUTDOOR FREEZE PROOF USE) | 3/4" | - | - | - | - | - | WOODFORD MANUFACTURING CO. MODEL 65 (OR EQUAL) WALL MOUNTED ANTI-SIPHON AUTOMATIC DRAINING FREEZELESS WALL HYDRANT. WALL HYDRANT SHALL BE PROVIDED WITH LOOSE KEE SHUTOFF, 3/4" INLET AND 3/4" MALE HOSE THREAD OUTLET. EXTERIOR FINISH SHALL BE CHROME PLATED. VANDAL PROOF OR EQUAL |
| HB-1 | HOSE BIBB - WALL MOUNTED (INDOOR FINISHED AREA USE) | 3/4" | - | - | - | - | - | CHICAGO FAUCETS MODEL 952.CP, BRASS CONSTRUCTION HOSE BIB, CHROME PLATED FINISH, VACUUM BREAKER, 3/4" HOSE THREAD, WALL FLANGE, LOOSE KEY OPERATOR. VANDAL PROOF OR EQUAL |
| HB-2 | HOSE BIBB - WALL MOUNTED (MECHANICAL ROOM USE) | 3/4" | 3/4" | - | - | - | - | WOODFORD MODEL 40HT, BRASS CONSTRUCTION HOSE BIBB, MODEL 34HF ANTI-SIPHON VACUUM BREAKER, BRASS LEVER HANDLE ADJUSTABLE WALL FLANGE, ADJUSTABLE BRASS PACKING NUT WITH DEEP STEAM GUARD. VANDAL PROOF OR EQUAL |
| SA-1 | SHOCK ARRESTOR | 3/4" | 3/4" | - | - | - | - | PRECISION PLUMBING PRODUCTS SC-750. VANDAL PROOF OR EQUAL |

# ELECTRIC WATER HEATER SCHEDULE (WH)

| PLAN CODE | CAP (GAL) | RECOVERY @ ELEV (GPH) | INPUT (KW) | TEMP RISE (°F) | MAX DIMENSIONS | | | | MAX OPERATING WT (LBS) | MANUFACTURER & MODEL NO | REMARKS |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | DIA (IN) | HEIGHT (IN) | VOLT/ PH | AMPS | | | |
| WH-1 | 119 | 369 | 90* | 100 | 30 | 65 | 480 / 3 | 108 | 200 | A.O. SMITH DSE - 120 | MECHANICAL ROOM |
| WH-2 | 119 | 369 | 90* | 100 | 30 | 65 | 480 / 3 | 108 | 200 | A.O. SMITH DSE - 120 | MECHANICAL ROOM |
| WH-3 | - | - | 4.1 | - | 5.25 | 10.75 | 277 / 1 | 15 | 10 | EEMAX EX4277T | INSTANTANEOUS SOUTH EAST EXISTING RESTROOM |
| WH-4 | - | - | 4.1 | - | 5.25 | 10.75 | 277 / 1 | 15 | 10 | EEMAX EX4277T | INSTANTANEOUS NORTH EAST EXISTING RESTROOM |
| WH-5 | - | - | 4.1 | - | 5.25 | 10.75 | 277 / 1 | 15 | 10 | EEMAX EX4277T | INSTANTANEOUS AREA C |

* NOTE: EACH IMMERSION HEATER CONTAINS THREE ELECTRIC ELEMENTS.


VCBO
ARCHITECTURE
VALENTINER
CRANE
BRUNJES
ONYON

VCBO ARCHITECTURE
524 SOUTH 600 EAST
SALT LAKE CITY, UT 84102
Phone: (801) 575-8800
Fax: (801) 531-9850
WWW: www.vcbo.com


DFCM CODE COMPLIANCE STAMP

Student Activity Center
Stromberg Addition - BID SET
Weber State University
3750 Harrison Blvd. Ogden, UT 84408

Rev # Date Description

Stephen G. Connor
REGISTERED PROFESSIONAL ENGINEER
187524
10/3/2012
State of Utah


Colvin Engineering Associates, Inc.
244 West 300 North Suite 200
Salt Lake City, Utah 84103
Phone: (801) 322-2400 / Fax: (801) 322-2416


Job # 2012-033.00
CAD File
Drawn TCF Checked BRC
Date 10.03.2012
Owner # DFCM #12031810

PLUMBING SCHEDULES

P601


Copyright (C) 2012 by Colvin Engineering Associates, Inc. Salt Lake City, Utah. All rights reserved. Unauthorized copying and/or use is illegal and subject to prosecution.


10/2/2012 4:01:57 PM

1 FIRST FLOOR AREA C ZONING PLAN

SCALE: 1/8" = 1'-0"

6' 0' 4' 8' 12' 16'

Copyright (C) 2012 by Colvin Engineering Associates, Inc. Salt Lake City, Utah. All rights reserved. Unauthorized copying and/or use is illegal and subject to prosecution.

10/2/2012 4:01:59 PM

VCBO
ARCHITECTURE
VALENTINER
CRANE
BRUNJES
ONYON

VCBO ARCHITECTURE
524 SOUTH 600 EAST
SALT LAKE CITY, UT 84102
Phone: (801) 575-8800
Fax: (801) 531-9850
WWW: www.vcbo.com

DFCM CODE COMPLIANCE STAMP

# Student Activity Center
## Stromberg Addition - BID SET
Weber State University
3750 Harrison Blvd. Ogden, UT 84408

| Rev # | Date | Description |
|---|---|---|

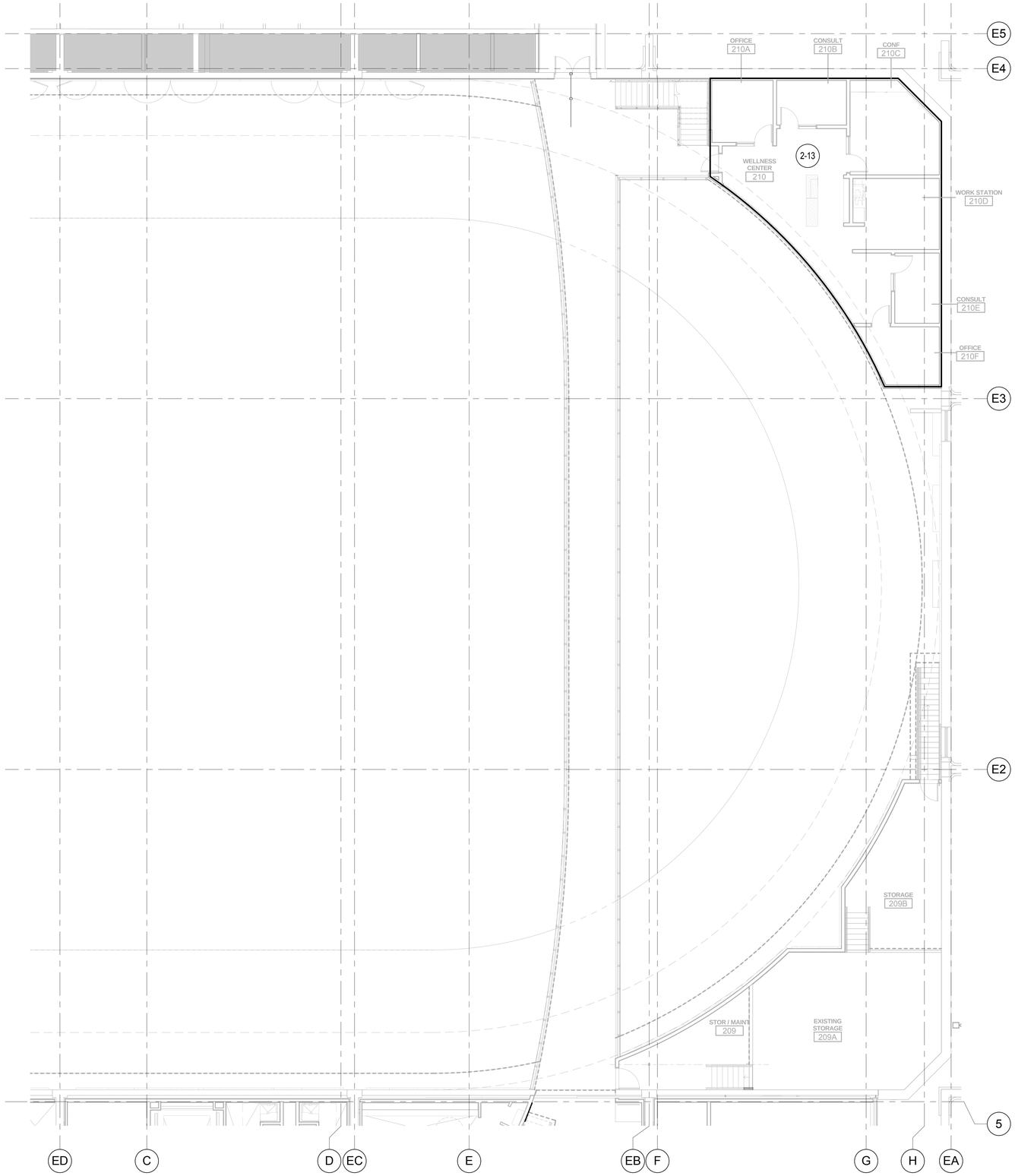
STANLEY C. COLVIN 167524 10/3/2012 REGISTERED PROFESSIONAL ENGINEER State of Utah

Colvin Engineering Associates, Inc.
244 West 300 North Suite 200
Salt Lake City, Utah 84103
Phone: (801) 322-2400 / Fax: (801) 322-2416

Job # 2012-033.00
CAD File
Drawn TCF Checked BRC
Date 10.03.2012
Owner # DFCM #12031810

FIRST FLOOR AREA C ZONING PLAN

Z113.1




1 SECOND FLOOR AREA B ZONING PLAN

SCALE: 1/8" = 1'-0"

6' 0' 4' 8' 12' 16'

Copyright (C) 2012 by Colvin Engineering Associates, Inc. Salt Lake City, Utah. All rights reserved. Unauthorized copying and/or use is illegal and subject to prosecution.

10/2/2012 4:02:01 PM

VCBO
ARCHITECTURE
VALENTINER
CRANE
BRUNJES
ONYON

VCBO ARCHITECTURE
524 SOUTH 600 EAST
SALT LAKE CITY, UT 84102
Phone: (801) 575-8800
Fax: (801) 531-9850
WWW: www.vcbo.com

DFCM CODE COMPLIANCE STAMP

# Student Activity Center
## Stromberg Addition - BID SET
Weber State University
3750 Harrison Blvd. Ogden, UT 84408

| Rev # | Date | Description |
|---|---|---|

Seal: Steven G. Colvin, 167524, 10/3/2012, Professional Engineer, State of Utah

Colvin Engineering Associates, Inc.
244 West 300 North Suite 200
Salt Lake City, Utah 84103
Phone: (801) 322-2400 / Fax: (801) 322-2416

Job # 2012-033.00
CAD File
Drawn TCF Checked BRC
Date 10.03.2012
Owner # DFCM #12031810

SECOND FLOOR AREA
B ZONING PLAN

Z122.1

Copyright (C) 2012 by Colvin Engineering Associates, Inc. Salt Lake City, Utah. All rights reserved. Unauthorized copying and/or use is illegal and subject to prosecution.

1 SECOND FLOOR AREA C ZONING PLAN
SCALE: 1/8" = 1'-0"

6' 0' 4' 8' 12' 16'

VCBO
ARCHITECTURE
VALENTINER
CRANE
BRUNJES
ONYON

VCBO ARCHITECTURE
524 SOUTH 600 EAST
SALT LAKE CITY, UT 84102
Phone: (801) 575-8800
Fax: (801) 531-9850
www: www.vcbo.com

DFCM CODE COMPLIANCE STAMP

# Student Activity Center
## Stromberg Addition - BID SET
Weber State University
3750 Harrison Blvd. Ogden, UT 84408

| Rev # | Date | Description |
|---|---|---|

Stephen G. Colvin
167524
10/3/2012
REGISTERED PROFESSIONAL ENGINEER
State of Utah

Colvin Engineering Associates, Inc.
244 West 300 North Suite 200
Salt Lake City, Utah 84103
Phone: (801) 322-2400 / Fax: (801) 322-2416

Job # 2012-033.00
CAD File
Drawn TCF Checked BRC
Date 10.03.2012
Owner # DFCM #12031810

SECOND FLOOR AREA
C ZONING PLAN

Z123.1

10/2/2012 4:02:04 PM

# POWER SYSTEMS SYMBOL LIST

| SYMBOL | DESCRIPTION |
|---|---|
| | DUPLEX CONVENIENCE OUTLET - 20 AMP |
| | DUPLEX CONVENIENCE OUTLET - 20 AMP GROUND FAULT INTERRUPTER |
| | 4-PLEX CONVENIENCE OUTLET - 20 AMP |
| EWC | DUPLEX CONVENIENCE OUTLET - 20 AMP ELECTRIC WATER COOLER |
| | SPECIAL PURPOSE SINGLE PHASE OUTLET |
| | SPECIAL PURPOSE THREE PHASE OUTLET |
| J | JUNCTION BOX - SIZE AND FUNCTION AS REQUIRED |
| | PUSH BUTTON SWITCH |
| | NON FUSED DISCONNECT SWITCH - SIZE AS REQUIRED |
| | FUSED DISCONNECT SWITCH - SIZE AS REQUIRED |
| S | COMBINATION STARTER/FUSED DISCONNECT SWITCH - SIZE AS REQUIRED |
| | CIRCUIT BREAKER DISCONNECT - SIZE AS REQUIRED |
| | MOTOR LOCATION |
| ST | MANUAL DISCONNECT WITH THERMAL OVERLOAD PROTECTION |
| | ELECTRICAL PANEL LOCATION |
| M | ELECTRICAL METER LOCATION |

# FIRE ALARM SYSTEM SYMBOL LIST

| SYMBOL | DESCRIPTION |
|---|---|
| S XXX | SMOKE DETECTOR (XXX - ADDRESS) |
| SD | DUCT SMOKE DETECTOR |
| FS | FLOW SWITCH |
| TS | TAMPER SWITCH |
| | HORN |
| | HORN STROBE |
| | STROBE ONLY |
| F | HAND PULL STATION |
| FACP | FIRE ALARM CONTROL PANEL |
| | HEAT DETECTOR |
| FSD | FIRE/SMOKE DAMPER |
| | FIRE FIGHTER PHONE |

# CALLOUT SYMBOL LIST

| SYMBOL | DESCRIPTION |
|---|---|
| T-X X | LIGHTING FIXTURE CALLOUT NUMBER INDICATES A SUGGESTED QUANTITY- TO BE VERIFIED |
| XX-X | MECHANICAL EQUIPMENT CALLOUT |
| X E-XXX | DETAIL REFERENCE CALLOUT |
| X XXX | ELEVATION DETAIL CALLOUT |
| X XXX | SECTION DETAIL CALLOUT |
| X X | REFERENCE NOTE CALLOUT |
| | POINT OF CONNECTION TO EXISTING |
| | POINT OF REMOVAL FROM EXISTING |

# ABBREVIATIONS SYMBOL LIST

| SYMBOL | DESCRIPTION |
|---|---|
| W.P. | INDICATES WEATHER PROOF EQUIPMENT |
| E | INDICATES DEVICE IS ON EMERGENCY CIRCUIT. |
| CLG | INDICATES CEILING MOUNTED DEVICE |
| UPS | UNINTERRUPTIBLE POWER SUPPLY |
| A.T.C. | AUTOMATIC TEMPERATURE CONTROL PANEL |
| M.M.C. | MULTI MEDIA CABINET |
| T.V.SS. | TRANSIENT VOLTAGE SURGE SUPPRESSER |
| F.A.C.P. | FIRE ALARM CONTROL PANEL |
| F.A.R.A.P. | FIRE ALARM REMOTE ANNUNCIATOR PANEL |
| F.A.N.E.P. | FIRE ALARM NETWORK EXPANDER PANEL |

# LIGHTING SYSTEM SYMBOL LIST

| SYMBOL | DESCRIPTION |
|---|---|
| J | LAY-IN FLUORESCENT FIXTURE |
| J | SURFACE MOUNTED FLUORESCENT FIXTURE |
| E | EMERGENCY LIGHTING |
| E,NL | EMERGENCY NIGHT LIGHT |
| J | FLUORESCENT STRIP LIGHT FIXTURE |
| | RECESSED FIXTURE |
| | RECESSED WALL WASH LIGHT FIXTURE |
| | RECESSED MOUNTED LIGHT FIXTURE |
| | PENDANT MOUNTED LIGHT FIXTURE |
| | WALL MOUNTED FIXTURE |
| | SURFACE MOUNTED FIXTURE |
| | WALL SCONCE LIGHT FIXTURE |
| | EXIT LIGHT. ARROWS SHOW EXIT DIRECTION |
| | WALL MOUNTED CAN LIGHT FIXTURE |
| | WALL MOUNTED FLOOD LIGHT FIXTURE |
| | POLE LIGHT FIXTURE |
| $ | SINGLE POLE TOGGLE SWITCH - 20 AMP |
| $3 | THREE WAY TOGGLE SWITCH - 20 AMP |
| $a,b | SINGLE POLE TOGGLE SWITCH - 20 AMP, LETTERS INDICATE SWITCH ASSIGNMENT |
| D | DIMMER SWITCH |
| | WALL MOUNTED OCCUPANCY SENSOR |
| | CEILING MOUNTED OCCUPANCY SENSOR |
| T-X X | LIGHTING FIXTURE CALLOUT. NUMBER INDICATES A SUGGESTED QUANTITY- TO BE VERIFIED |
| X X | REFERENCE NOTE CALLOUT |

# COMMUNICATION SYSTEMS SYMBOL LIST

| SYMBOL | DESCRIPTION |
|---|---|
| | TELEPHONE TERMINAL BOARD |
| | PAGING PHONE OUTLET |
| | FLUSH TELE/DATA OUTLET |
| C | CLOCK LOCATION |
| X X | REFERENCE NOTE CALLOUT |

# GENERAL NOTES:

1. ALL MATERIALS TO BE REMOVED AND RETURNED TO THE OWNER. MATERIALS WHICH THE OWNER DECIDES NOT TO KEEP SHALL BE SALVAGED AND REMOVED FROM THE SITE BY THE CONTRACTOR.
2. ALL CONCEALED CONDUIT THAT CANNOT BE REMOVED SHALL BE CUT FLUSH WITH THE FINISH SURFACES AND CAPPED OFF AFTER THE WIRING HAS BEEN DISCONNECTED AT THE PANEL AND REMOVED FROM THE CONDUIT.
3. IN AREAS WHERE CIRCUIT CONTINUITY IS INTERRUPTED, BUT MUST BE MAINTAINED TO THE DEVICES WHICH ARE TO REMAIN, MAKE ALL THE NECESSARY MODIFICATIONS TO THE CIRCUITS IN ORDER TO MAINTAIN THE CIRCUIT INTEGRITY.
4. THE CONTRACTOR SHALL PATCH THE WALLS AND CEILINGS WHERE THE DEVICES ARE REMOVED TO MATCH THE EXISTING WALLS AND CEILINGS. COORDINATE WITH GENERAL CONTRACTOR.
5. REFER TO THE ARCHITECTURAL REFLECTED CEILING PLANS FOR THE EXACT LOCATION OF ALL LIGHTING FIXTURES.
6. THE COLOR OF THE LIGHT FIXTURES SHALL BE SELECTED BY THE ARCHITECT.
7. COORDINATE WITH THE OWNER AND ARCHITECT FOR THE EXACT LOCATION OF THE OUTLETS.
8. PRIOR TO SUBMITTING A BID THE ELECTRICAL CONTRACTOR SHALL INSPECT THE SITE AND INCLUDE IN HIS BID PACKAGE ALL CHARGES DUE TO EXISTING CONDITIONS. SHOP DRAWINGS ARE REQUIRED. ALL LABOR, MATERIAL AND WORKMANSHIP SHALL BE GUARANTEED FOR A PERIOD OF 1 YEAR FROM THE DATE OF ACCEPTANCE BY THE TENANT. REPLACE OR REPAIR ALL DEFECTS DURING THE GUARANTEED PERIOD.
9. THE CONTRACTOR SHALL INFORM THE ARCHITECT/ENGINEER IN WRITING OF ANY DISCREPANCIES FOUND BETWEEN THE INTENDED FUNCTION OF EQUIPMENT AND EQUIPMENT SPECIFIED IN THE CONTRACT DOCUMENTS A MINIMUM OF FIVE (5) WORKING DAYS PRIOR TO ISSUANCE OF THE FINAL BID. FAILURE TO REPORT ANY DISCREPANCY (CATALOG NUMBERS, DISCONTINUED ITEMS, ETC.) DOES NOT RELIEVE THE CONTRACTOR FROM PROVIDING EQUIPMENT WHICH SHALL CONFORM TO AND FULFILL THE INTENT OF THE CONTRACT DOCUMENTS, NOR SHALL IT BE USED AS A CONDITION TO OBTAIN ADDITIONAL FUNDS FROM THE OWNER AFTER THE CONTRACT IS AWARDED. THE CONTRACTOR SHALL REQUEST ALL CLARIFICATIONS OF CONTRACT DOCUMENT REQUIREMENTS IN WRITING TO THE ARCHITECT/ENGINEER A MINIMUM OF FIVE (5) WORKING DAYS PRIOR TO ISSUANCE OF THE FINAL BID.
10. REFER TO THE MECHANICAL SHEETS FOR THE EXACT LOCATION OF THE MECHANICAL EQUIPMENT.
11. THE ELECTRICAL CONTRACTOR SHALL NOTIFY AND COORDINATE WITH THE MECHANICAL CONTRACTOR SO THAT NO PIPING, DUCTS, OR OTHER EQUIPMENT SHALL BE INSTALLED IN ENTRY OR PASS THROUGH ELECTRICAL ROOM OR SPACES ABOVE OR BELOW ELECTRICAL PANELS.
12. ELECTRICAL CONTRACTOR SHALL VERIFY ALL ELECTRICAL LOADS (VOLTAGE, PHASE, CONNECTION REQUIREMENT, ETC.) OF EQUIPMENT FURNISHED UNDER OTHER DIVISIONS WITH APPROVED SHOP DRAWINGS PRIOR TO BEGINNING ROUGH-IN.
13. MINIMUM SIZE OF CONDUIT TO BE 3/4". ALUMINUM CONDUITS SHALL NOT BE USED.
14. USE RIGID STEEL SET SCREW TYPE FITTINGS ONLY. DIE CAST FITTINGS SHALL NOT BE USED.
15. RUN A NEUTRAL CONDUCTOR FOR EACH PHASE CONDUCTOR (EACH CIRCUIT) IN A CONDUIT. NOT MORE THAN THREE (3) CIRCUITS IN A CONDUIT. THREE (3) PHASE CONDUCTORS, THREE (3) NEUTRAL CONDUCTORS (ONE FOR EACH PHASE) AND ONE (1) GROUND CONDUCTOR FOR A TOTAL OF SEVEN (7) CONDUCTORS.
16. FOR SPECIFICATION OF PULL WIRES IN EMPTY CONDUITS, REFER TO THE ELECTRICAL SPECIFICATION FOR RACEWAYS SECTION 16110.
17. THE MINIMUM SIZE OF THE CONDUCTORS ARE TO BE #12 AWG THHN COPPER, UNLESS INDICATED OTHERWISE ON THE DRAWINGS.
18. ALL J-BOXES SHALL HAVE MINIMUM DEPTH OF 2-1/8" UNLESS OTHERWISE SPECIFIED. SECURE ALL J-BOXES AS SHOWN IN THE DETAILS. FURNISH AND INSTALL PROPER MUD RINGS.
19. ALL NEW EXPOSED CONDUIT MUST RUN AGAINST THE WALLS OR CEILINGS. DO NOT PENDANT MOUNT ANY CONDUIT FROM THE CEILINGS.
20. ALL THE HOMERUNS MUST BE ACCESSIBLE IN THE CEILING PLENUM. DO NOT CARRY A HOMERUN FROM ONE DEVICE TO ANOTHER WHICH IS TIED TO A SEPARATE HOMERUN INSIDE THE WALL. MARK ON ALL THE J-BOXES THE CIRCUIT NAMES AND NUMBERS.
21. AT THE END OF THE JOB, PROVIDE BLANK COVER PLATES TO MATCH THE OTHER COVER PLATES FOR ALL J-BOXES WHERE DEVICES HAVE NOT YET BEEN INSTALLED.
22. SEAL AROUND ALL CONDUIT PENETRATIONS THROUGH FIRE RATED WALLS AND CEILINGS WITH FIRE RATED MATERIAL. 3M IS AN APPROVED MANUFACTURER.
23. ALL ELECTRICAL WIRING MUST BE IN CONDUIT (ROMEX AND MC CABLE NOT PERMITTED).
24. FLEXIBLE CONDUITS CAN ONLY BE USED FOR SHORT RUNS (6' MAXIMUM).
25. NO CONDUITS SHALL RUN IN DUCT WORK.
26. THE ELECTRICAL CONTRACTOR SHALL TERMINATE THE ELECTRICAL CONNECTIONS TO ALL THE EQUIPMENT BY PROVIDING THE NECESSARY MALE/FEMALE CONNECTOR, RECEPTACLE, PLUG, ETC.
27. USE NO. 10 THHN CONDUCTORS FOR CONDUCTOR LENGTH OVER 100 FEET, NO. 8 THHN OVER 200 FEET, NO. 6 THHN OVER 300 FEET AND NO. 4 THHN OVER 400 FEET LENGTH.
28. ALL CONDUITS EXPOSED TO THE WEATHER SHALL BE GALVANIZED RIGID STEEL, UNLESS OTHERWISE NOTED.
29. THE FIRST 10' LENGTH OF ALL BURIED CONDUIT OVER 1" SHALL BE RIGID GALVANIZED STEEL WHERE THEY ARE LEAVING OR ENTERING THE BUILDING, ETC.
30. ALL METALLIC CONDUITS, JOINTS, FITTINGS, ETC., IN CONTACT WITH THE GROUND SHALL BE RIGID METALLIC AND SPIRALLY WRAPPED WITH 3M SCOTCHRAP-51, 10 MIL TAPE (OR APPROVED EQUAL). 1/2" OVERLAP IS REQUIRED.
31. ALL UNDERGROUND CONDUIT SHALL BE BURIED 24" MINIMUM UNDER THE GROUND.
32. PROVIDE TYPED LABEL FOR ALL DUPLEX OUTLETS AND LIGHT SWITCHES TO INDICATE WHICH CIRCUIT THEY ARE TIED TO.
33. ALL DUPLEX OUTLETS SHALL BE 20 AMP., 120 VOLT SPEC GRADE. ALL LIGHT SWITCHES ARE TO BE 20 AMP., 277 VOLT SPEC GRADE. HUBBELL AND PASS & SEYMOUR AND LEVITON ARE APPROVED MANUFACTURERS.
34. LIGHT SWITCHES INSTALLED ADJACENT TO EACH OTHER, SHALL BE GANGED TOGETHER WITH ONE PIECE COVERPLATE.
35. INSTALL LIGHT SWITCHES AS CLOSE AS POSSIBLE TO THE DOOR. COORDINATE EXACT LOCATION OF LIGHT SWITCHES WITH ARCHITECT.
36. SUPPORT THE LAY-IN TYPE FIXTURES FROM THE CEILING DECK INDEPENDENT OF THE CEILING GRID, AS SHOWN ON THE TYPICAL RECESSED FIXTURE MOUNTING DETAIL.
37. INSTALL EXIT SIGNS ON THE WALL IF POSSIBLE.
38. ALL PANELBOARDS SHALL HAVE FULL SIZE ISOLATED NEUTRAL AND GROUND COPPER BUS BARS.
39. USE EPOXY ANCHORS TO SUPPORT THE ELECTRICAL EQUIPMENT. EXPANSION ANCHOR BOLTS ARE NOT ACCEPTED.
40. ALL PANELS SHALL HAVE COPPER BUSSES AND SHALL BE BRACED FOR A MINIMUM OF 10,000 AIC OR AS SPECIFIED.
41. SWITCHBOARDS AND PANELBOARDS SHALL BE FIELD MARKED TO WARN QUALIFIED PERSONS OF POTENTIAL ELECTRIC ARC FLASH HAZARDS. THE MARKING SHALL BE LOCATED SO AS TO BE CLEARLY VISIBLE TO QUALIFIED PERSONS BEFORE EXAMINATION, ADJUSTMENT, SERVICING, OR MAINTENANCE OF THE EQUIPMENT. (NEC 110-16)
42. PROVIDE UPDATED, TYPED WRITTEN, PANEL SCHEDULES FOR NEW AND EXISTING PANELBOARDS SHOWING CIRCUIT CHANGES MADE DURING THIS PROJECT.
43. ALL DISCONNECTS, J-BOXES AND CONDUITS EXPOSED TO THE OUTSIDE WEATHER SHALL BE NON-CORROSIVE, WEATHER PROOF TYPE.
44. ALL DISCONNECTS SHALL BE HEAVY DUTY TYPE.
45. TO MINIMIZE NUMBER OF FALSE FIRE ALARM DURING CONSTRUCTION, THE CONTRACTOR SHALL CAP SMOKE DETECTORS IN AREAS ADJACENT TO WORK SITE WHILE DUST-GENERATING WORK IS PERFORMED. THESE CAPS SHALL BE REMOVED AT END OF WORKDAY. COORDINATE THE EXTENT OF DEVICE CAPPING REQUIRED WITH CAMPUS FIRE MARSHALL. A LOG SHALL BE KEPT SHOWING THAT ALL CAPS ARE REMOVED AND ACCOUNTED FOR.
46. IF, FOR ANY REASON FIRE ALARM SYSTEM CANNOT BE RETURNED TO SERVICE AT THE END OF WORK DAY THE CAMPUS FIRE MARSHALL MUST BE NOTIFIED. CONTRACTOR SHALL PROVIDE FIRE WATCH AT NO ADDITIONAL COST TO THE OWNER.
47. UPDATE THE BUILDING FIRE ALARM SCHEMATIC DRAWINGS TO SHOW LOCATIONS OF NEW AND EXISTING FIRE ALARM DEVICES CHANGED DURING THIS PROJECT. FIRE ALARM SYSTEM SHALL BE TESTED FOR PROPER OPERATION AT THE END OF THE PROJECT. ALL TESTS AND REPORTS SHALL BE COMPLIANT WITH NFPA 72 CHAPTER 7. COORDINATE TESTING WITH THE OWNER AND FIRE MARSHALL.
48. PAINT ALL THE J-BOXES FOR FIRE ALARM SYSTEM WITH RED PAINT. ALL THE CONDUIT FOR FIRE ALARM SYSTEM SHALL BE RED.
49. ALL NEW WORK MUST MEET THE CURRENT ADOPTED NATIONAL ELECTRICAL CODE.
50. ALL MATERIALS USED IN THIS INSTALLATION SHALL BE U.L. APPROVED AND NEW.
51. TEMPORARY ELECTRICAL SERVICE IS TO BE PROVIDED BY THE ELECTRICAL CONTRACTOR AND REMOVED BY THE ELECTRICAL CONTRACTOR.
52. DETAILS ARE SHOWN ON DIFFERENT SHEETS. THE CONTRACTOR SHALL REFER TO THOSE DETAILS WHETHER OR NOT CALLED IN REFERENCE NOTES.
53. CONTRACT DOCUMENTS SHALL TAKE PRECEDENCE OVER SHOP DRAWINGS UNLESS SPECIFICALLY NOTED OTHERWISE.
54. ALL FLOORS SHALL BE SCANNED FOR NEW HOLES IN EXISTING CONCRETE SLABS WITH GROUND PENETRATING RADAR. METHOD OF PROCEDURE IS REQUIRED AND SHALL BE APPROVED BY STRUCTURAL ENGINEER PRIOR TO START OF CORE DRILLING.
55. ELECTRICAL CONTRACTOR SHALL HAVE PRE-CONSTRUCTION MEETING WITH ELECTRICAL SHOP SUPERVISOR. ELECTRICIANS SHALL HAVE AN UPDATED ELECTRICAL LICENSE FOR THE STATE OF UTAH.


VCBO ARCHITECTURE
VALENTINER CRANE BRUNJES ONYON

VCBO ARCHITECTURE
524 SOUTH 600 EAST
SALT LAKE CITY, UT 84102
Phone: (801) 575-8800
Fax: (801) 531-9850
WWW: www.vcbo.com


#172577
10-03-12
STATE OF UTAH

DFCM CODE COMPLIANCE STAMP

# Stromberg Student Activity Center

Stromberg Addition - BID SET
Weber State University
3750 Harrison Blvd. Ogden, UT 84408

| Rev # | Date | Description |
|---|---|---|

Job # 4317
CAD File
Drawn PB Checked AM
Date 10.03.2012
Owner #

GENERAL NOTES AND SYMBOLS

EE-001

10/3/2012 8:49:45 AM

# LIGHTING FIXTURE SCHEDULE

| SYMBOL | DESCRIPTION | LAMP/FIXTURE INFORMATION | | APPROVED MANUFACTURERS | CATALOG NUMBER |
|---|---|---|---|---|---|
| T-1 | 2'X4' DECORATIVE LIGHT FIXTURE WITH STEP DIMMING BALLAST. | LAMP | 2F28 T8 | LITHONIA | 2RT8S-2-32-MVOLT-BSNP |
| | | VOLTAGE | 277 | | |
| | | MOUNT | | | |
| | | COLOR | | | |
| | | BALLAST | | | |
| T-2 | 2'X2' DECORATIVE LIGHT FIXTURE. | LAMP | 2F14 T8 | LITHONIA | 2RT8S-2-17-MVOLT-GEB10PS |
| | | VOLTAGE | 277 | | |
| | | MOUNT | | | |
| | | COLOR | | | |
| | | BALLAST | | | |
| T-3 | PENDANT MOUNTED INDIRECT LIGHT FIXTURE WITH STEP DIMMING BALLAST. LENGTH AS SHOWN ON THE PLANS. | LAMP | 2F28 T8 PER 4' | LEDALITE | 7406-T02-Q-N-*-**-UNV-E-W |
| | | VOLTAGE | 277 | | |
| | | MOUNT | | | |
| | | COLOR | | | |
| | | BALLAST | | | |
| T-4 | 4' STRIP LIGHT FIXTURE HUNG BY CHAIN AND WIRE GUARD. | LAMP | 2F28 T8 | LITHONIA | Z-2-32-MVOLT-GEB10PS-WGZ48 |
| | | VOLTAGE | 277 | | |
| | | MOUNT | | | |
| | | COLOR | | | |
| | | BALLAST | | | |
| T-5 | 6" LED RECESSED CAN LIGHT FIXTURE WITH 0-10V. DIMMING CAPABILITY. | LAMP | INCLUDED | LUMI | ARV13-22W-L-3500K-277-FP-SCBA |
| | | VOLTAGE | 277 | GOTHAM | ALED 35/10 6AR MVOLT |
| | | MOUNT | | | |
| | | COLOR | | | |
| | | BALLAST | | | |
| T-6 | LARGE DECORATIVE PENDANT MOUNTED LIGHT FIXTURE. WITH SCREW-IN SELF-BALLASTED COMPACT FLUORESCENT LAMP. | LAMP | 60W SBCF | LOUIS POULSEN | LPC-1/500W/PS-35/CL MOGL-277V-WHT |
| | | VOLTAGE | 277 | | |
| | | MOUNT | | | |
| | | COLOR | | | |
| | | BALLAST | | | |
| T-7 | SEMI RECESSED LED LIGHT FIXTURE. 1000 LUMENS. | LAMP | INCLUDED | LOUIS POULSEN | BAL 17W LED/3000K-120/277-WHT |
| | | VOLTAGE | 277 | | |
| | | MOUNT | | | |
| | | COLOR | | | |
| | | BALLAST | | | |
| T-8 | 6" LED RECESSED CAN LIGHT FIXTURE. COLOR OF THE CONE BY ARCHITECT. 1400 LUMENS. | LAMP | INCLUDED | GOTHAM | ALED-35/14-6AR-MVOLT |
| | | VOLTAGE | 277 | | |
| | | MOUNT | | | |
| | | COLOR | | | |
| | | BALLAST | | | |
| T-9 | LED RECESSED SHOWER LIGHT FIXTURE. 900 LUMENS. | LAMP | INCLUDED | GOTHAM | ALED-35/10-6AR-MVOLT |
| | | VOLTAGE | 277 | | |
| | | MOUNT | | | |
| | | COLOR | | | |
| | | BALLAST | | | |
| T-10 | 4" WIDE LINEAR RECESSED FLUORESCENT LIGHT FIXTURE WITH OPAL LENS. LENGTH AS SHOWN ON THE DRAWINGS. ALUMINUM HOUSING. | LAMP | 2F32 T8 PER 4' | ARCHITECTURAL | LPLR3.5T-TGRID-*-2-FSO-R-LSTD-UNV-EXT-WH |
| | | VOLTAGE | 277 | | |
| | | MOUNT | | | |
| | | COLOR | | | |
| | | BALLAST | | | |
| T-11 | PENDANT MOUNTED INDIRECT LIGHT FIXTURE. LENGTH AS SHOWN. | LAMP | 2F28 T8/4 FT | LITECONTROL | P-I-02-1*T5-CWM-ELB10-UNV-FAI/ACC |
| | | VOLTAGE | 277 | | |
| | | MOUNT | | | |
| | | COLOR | | | |
| | | BALLAST | | | |
| T-12 | SURFACE MOUNTED LED CYLINDER LIGHT FIXTURE. COLOR OF CONE BY ARCHITECT. 3500 LUMENS. 10" HEIGHT. | LAMP | INCLUDED | GOTHAM | ICO-CYL 35/35 6AR ** 277 FCM DWHG |
| | | VOLTAGE | 277 | | |
| | | MOUNT | SURFACE | | |
| | | COLOR | | | |
| | | BALLAST | | | |
| T-13 | SMALL DECORATIVE PENDANT MOUNTED FLUORESCENT LIGHT FIXTURE | LAMP | 26W CFL | TECH | 700TDSDALP-F*-CF277 |
| | | VOLTAGE | | | |
| | | MOUNT | PENDANT | | |
| | | COLOR | | | |
| | | BALLAST | | | |
| T-14 | 2'X4' FLUORESCENT LAY-IN LIGHT FIXTURE WITH ,125 PRISMATIC LENS AND REGRESSED DOOR. | LAMP | 2F28 T8 | LITHONIA | 2SP8 G 2 32 RA125 MVOLT GEB10PS |
| | | VOLTAGE | 277 | | |
| | | MOUNT | LAY-IN | | |
| | | COLOR | | | |
| | | BALLAST | | | |
| T-15 | SMALL DECORATIVE PENDANT MOUNTED LIGHT FIXTURE WITH PERFORATED REFLECTOR OVER THEM. | LAMP | | DELRAY | 2072/*/0/32/2/E |
| | | VOLTAGE | | | |
| | | MOUNT | PENDANT | | |
| | | COLOR | | | |
| | | BALLAST | | | |
| T-16 | POLE MOUNTED LIGHT FIXTURE WITH SCREW IN COMPACT FLUORESCENT TO MATCH CAMPUS STANDARD. | LAMP | INCLUDED | KIM | PT/SRS1F3/150NC120/MOD/PHA-5-4012-10T3 |
| | | VOLTAGE | 277 | | |
| | | MOUNT | SURFACE | | |
| | | COLOR | | | |
| | | BALLAST | | | |
| T-17 | 6" RECESSED LED WALL WASH LIGHT FIXTURE. 1400 LUMENS. | LAMP | INCLUDED | GOTHAM | ALEDW 35/14 6AR MVOLT |
| | | VOLTAGE | 277 | | |
| | | MOUNT | | | |
| | | COLOR | | | |
| | | BALLAST | | | |
| T-18 | RECESSED 2" LED CAN LIGHT FIXTURE WITH DROPPED OPAL GLASS REFLECTOR. 6 WATTS. | LAMP | INCLUDED | EUREKA | 1013 FRO LED.4.30.48.TL |
| | | VOLTAGE | 277 | | |
| | | MOUNT | SURFACE | | |
| | | COLOR | | | |
| | | BALLAST | | | |
| T-19 | 6" RECESSED SQUARE LED DOWNLIGHT FIXTURE WITH SCREW IN PAR 30 LED LAMP. | LAMP | INCLUDED | GOTHAM | SQP 6AR |
| | | VOLTAGE | 277 ? | | |
| | | MOUNT | RECESSED | | |
| | | COLOR | | | |
| | | BALLAST | | | |
| T-20 | PENDANT MOUNTED DIRECT AND INDIRECT FLUORESCENT AND LED PAR DOWN LIGHT FIXTURE. LENGTH AS SHOWN. LED PAR LAMPS TO BE DIMMABLE. | LAMP | 2F32 T8/FT PAR 30 LED | ARCHITECTURAL | LP11-10-I2-120-PAR30/G2T5LENS/PAR30/PAR30/G2T5LENS/PAR30/AL |
| | | VOLTAGE | 120 | | |
| | | MOUNT | | | |
| | | COLOR | | | |
| | | BALLAST | | | |
| T-21 | SAME AS T-7 EXCEPT DIMMABLE 0-10V. | LAMP | | LOUIS POULSON | BAL 17W LED/3000K-120/277-WHT |
| | | VOLTAGE | | | |
| | | MOUNT | | | |
| | | COLOR | | | |
| | | BALLAST | | | |
| T-22 | SAME AS T-3 EXCEPT WITH DIMMING BALLASTS AND SELF DIMMING BALLASTS AND SELF CONTAINED PHOTO SENSOR FOR EACH FIXTURE. | LAMP | | LEDALITE | 7406-T02-Q-N-*-7-UNV-E-W-DS |
| | | VOLTAGE | | | |
| | | MOUNT | | | |
| | | COLOR | | | |
| | | BALLAST | | | |
| T-23 | EXTERIOR LINEAR LED LIGHT FIXTURE WITH 12" ARM UP LIGHT. WATER PROOF EXTRUDED ALUMINUM HOUSING. LENGTH AS SHOWN ON THE PLAN. 1.6" DIAMETER, 277V. REMOTE DRIVER. COLOR BY ARCHITECT. | LAMP | INCLUDED | SPI LIGHTING | SEWS/051/L48W 135K/SMB/24VOC/LBK 012/PS |
| | | VOLTAGE | | LITHONIA | LRP 1 GMR ** 120/277 EL N |
| | | MOUNT | | | |
| | | COLOR | | | |
| | | BALLAST | | | |
| EX-1 | LED EDGE LITE EXIT SIGN WITH NICAD BATTERY AND RECESSED HARDWARE. | LAMP | INCLUDED | LITHONIA | LRP-2-GMR-**-120/277-EL-N |
| | | VOLTAGE | 277 | | |
| | | MOUNT | | | |
| | | COLOR | | | |
| | | BALLAST | | | |

## NOTES:

1. ALL FLUORESCENT LIGHTS SHALL HAVE ELECTRONIC PROGRAMMABLE START BALLASTS, .78 BF. UNIVERSAL, ADVANCE AND SYLVANIA ARE APPROVED MANUFACTURERS. BALLASTS TO HAVE 5 YEAR WARRANTY.
2. ALL FLUORESCENT LAMPS SHALL HAVE 4100° COLOR TEMPERATURE.
3. FIELD VERIFY ALL LIGHTING VOLTAGES PRIOR TO PLACING ANY ORDER.
4. THE WRITTEN CRITERIA OF THE FIXTURE DESCRIPTION TAKES PRECEDENCE OVER THE CATALOG NUMBER.
5. ALL LED LIGHT FIXTURES ARE TO HAVE A 5 YEAR PARTS AND LABOR WARRANTY.
6. ALL SCREW-IN LED LAMPS SHALL HAVE 50,000 HOURS LIFE.


VCBO
ARCHITECTURE
VALENTINER
CRANE
BRUNJES
ONYON

VCBO ARCHITECTURE
524 SOUTH 600 EAST
SALT LAKE CITY, UT 84102
Phone: (801) 575-8800
Fax: (801) 531-9850
WWW: www.vcbo.com


DFCM CODE COMPLIANCE STAMP

# Stromberg Student Activity Center
## Stromberg Addition - BID SET
Weber State University
3750 Harrison Blvd. Ogden, UT 84408

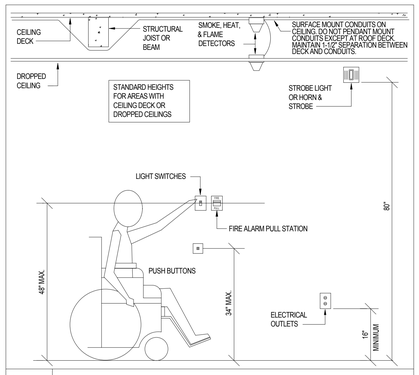
Rev # Date Description

Job # 4317
CAD File
Drawn PB Checked AM
Date 10.03.2012
Owner #

LIGHT FIXTURE SCHEDULE

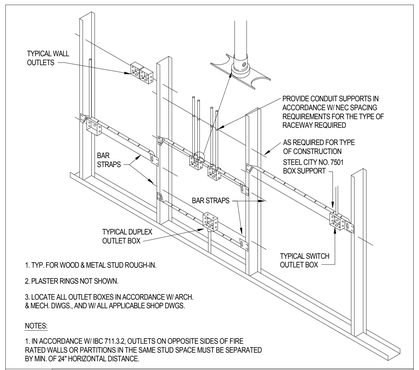
EE-002

10/3/2012 8:49:45 AM



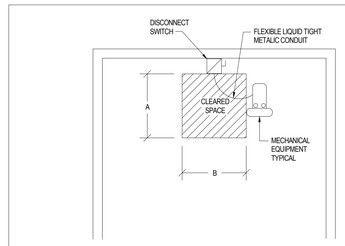

SCALE: N.T.S.

STANDARD HEIGHTS FOR HANDICAPPED ACCESS




SCALE: N.T.S.

TYPICAL ROUGH-IN REQUIREMENTS DETAIL



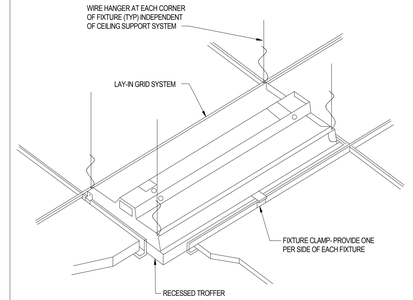

NOTE:
1. THE CONTRACTOR MUST COORDINATE EXACT LOCATION OF THE DISCONNECT WITH THE MECHANICAL CONTRACTOR TO ELIMINATE ANY OBSTACLE (PIPE, CONCRETE PAD, ETC.) IN FRONT OF THE DISCONNECT. IF THERE ARE ANY OBSTACLES, PROVIDE UNISTRUT AND INSTALL THE DISCONNECT NEXT TO MECHANICAL EQUIPMENT IN ORDER TO PROVIDE THE REQUIRED CLEARANCE.

2. PROVIDE MINIMUM CLEARANCE AS FOLLOWS:

| SYSTEM VOLTAGE | A | B |
|---|---|---|
| 480 | 42" | 30" |
| 208 | 36" | 30" |

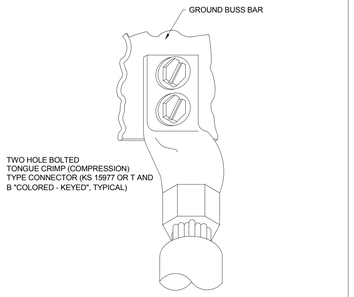
SCALE: N.T.S.

TYPICAL DISCONNECT CLEARANCE REQUIREMENTS



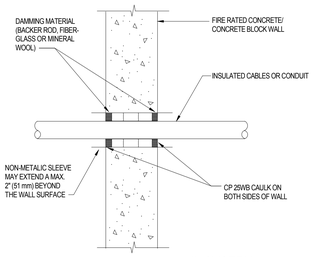

SCALE: N.T.S.

TYPICAL RECESSED FIXTURE MOUNTING DETAIL




SCALE: N.T.S.

CRIMP TYPE CONNECTORS DETAIL

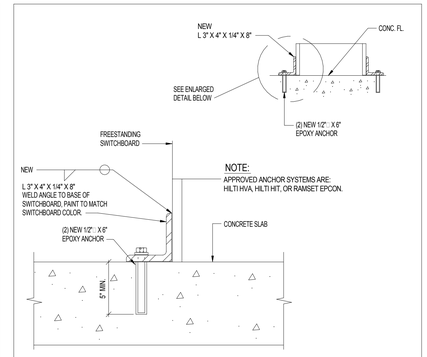



NOTE:
TYPICAL DETAILS SHOWING GENERAL FIRE STOPPING PROCEDURE. ACTUAL PROCEDURE DEPENDS UPON ANNULAR SPACE BETWEEN PIPE AND/OR INSULATION AND OPENING. FOLLOW MANUFACTURER'S INSTRUCTIONS.

UL SYSTEM #49

SCALE: N.T.S.

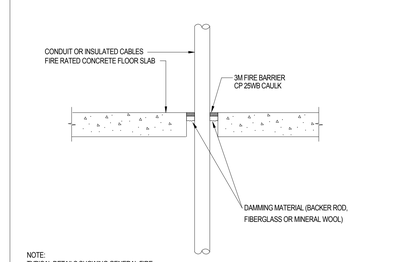
TYPICAL FIRESTOP FOR CABLES/ CONDUIT THROUGH CONCRETE WALLS




NOTE:
APPROVED ANCHOR SYSTEMS ARE: HILTI HVA, HILTI HIT, OR RAMSET EPCON.

SCALE: N.T.S.

SWITCHBOARD SEISMIC BRACING DETAIL

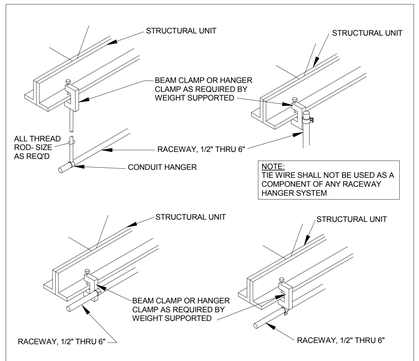



NOTE:
TYPICAL DETAILS SHOWING GENERAL FIRE STOPPING PROCEDURE. ACTUAL PROCEDURE DEPENDS UPON ANNULAR SPACE BETWEEN PIPE AND/OR INSULATION AND OPENING. FOLLOW MANUFACTURER'S INSTRUCTIONS.

UL SYSTEM #49

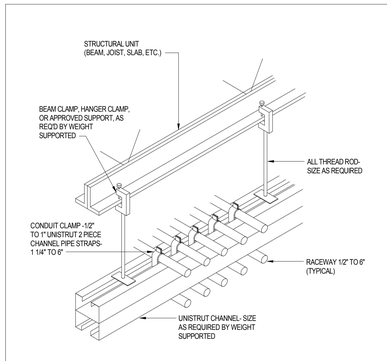
SCALE: N.T.S.

TYPICAL FIRESTOP FOR CABLES/ CONDUIT THROUGH CONCRETE FLOORING



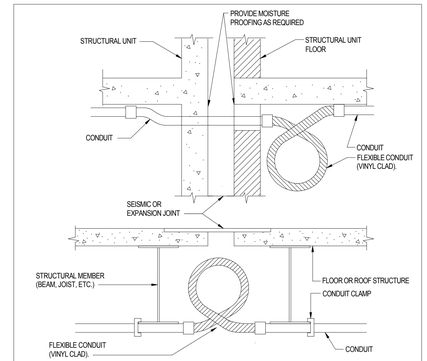

SCALE: N.T.S.

TYPICAL RACEWAY SUPPORT METHODS DETAIL



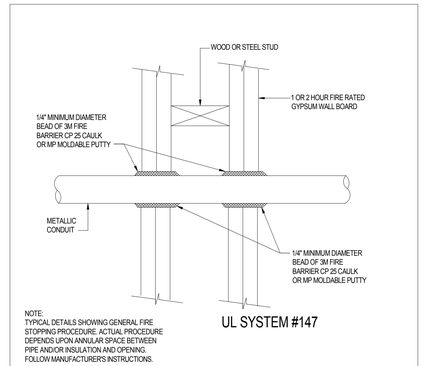

SCALE: N.T.S.

TYPICAL CONDUIT RACK DETAIL




SCALE: N.T.S.

CONDUIT CROSSING SEISMIC OR EXPANSION JOINT DETAIL

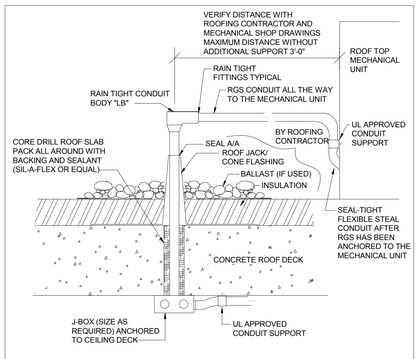



NOTE:
TYPICAL DETAILS SHOWING GENERAL FIRE STOPPING PROCEDURE. ACTUAL PROCEDURE DEPENDS UPON ANNULAR SPACE BETWEEN PIPE AND/OR INSULATION AND OPENING. FOLLOW MANUFACTURER'S INSTRUCTIONS.

UL SYSTEM #147

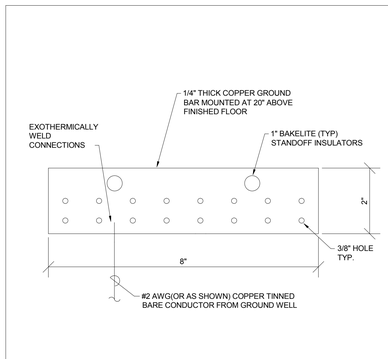
SCALE: N.T.S.

FIRESTOP FOR METAL CONDUIT THROUGH GYPSUM WALL BOARD



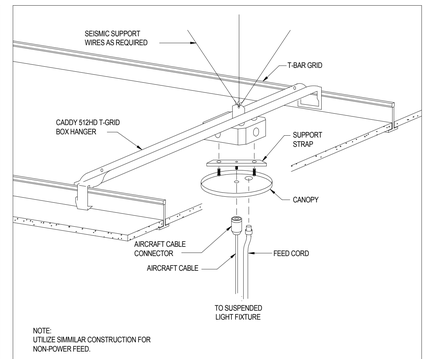

SCALE: N.T.S.

CONDUIT ROOF PENETRATION




SCALE: N.T.S.

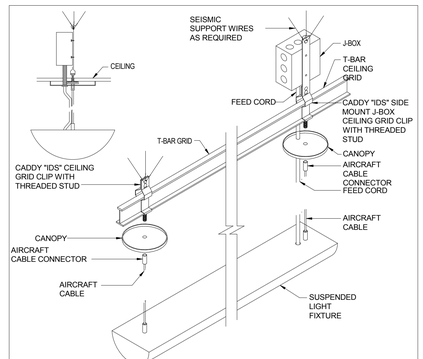
T.T.B. COPPER GROUND BUS BAR




NOTE:
UTILIZE SIMMILAR CONSTRUCTION FOR NON-POWER FEED.

SCALE: N.T.S.

INDIRECT LIGHT FIXTURE MOUNTING DETAIL




SCALE: N.T.S.

INDIRECT LIGHT FIXTURE MOUNTING DETAIL (GRID MOUNTED)

VCBO
ARCHITECTURE
VALENTINER
CRANE
BRUNJES
ONYON

MICHAEL BRUNJES #172577 10-03-12 STATE OF UTAH LICENSED ARCHITECT

VCBO ARCHITECTURE
524 SOUTH 600 EAST
SALT LAKE CITY, UT 84102
Phone: (801) 575-8800
Fax: (801) 531-9850
WWW: www.vcbo.com

DFCM CODE COMPLIANCE STAMP

# Stromberg Student Activity Center

Stromberg Addition - BID SET

Weber State University
3750 Harrison Blvd. Ogden, UT 84408

| Rev # | Date | Description |
|---|---|---|

Job # 4317
CAD File
Drawn PB Checked AM
Date 10.03.2012
Owner #

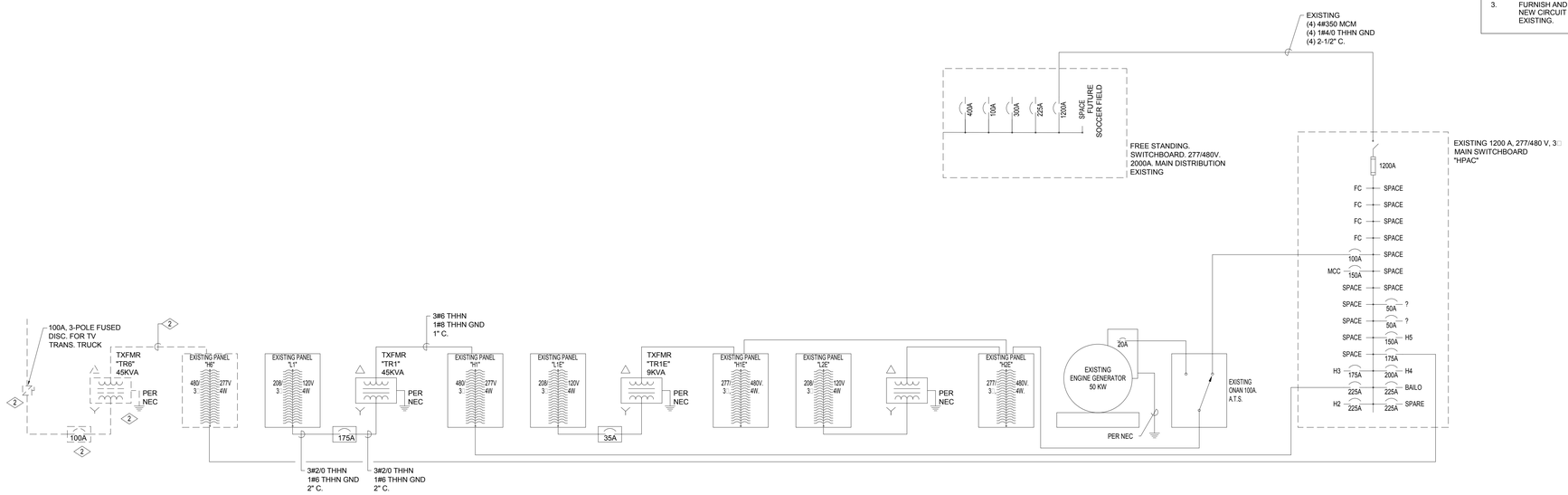
DETAILS

EE-003

10/3/2012 8:49:46 AM

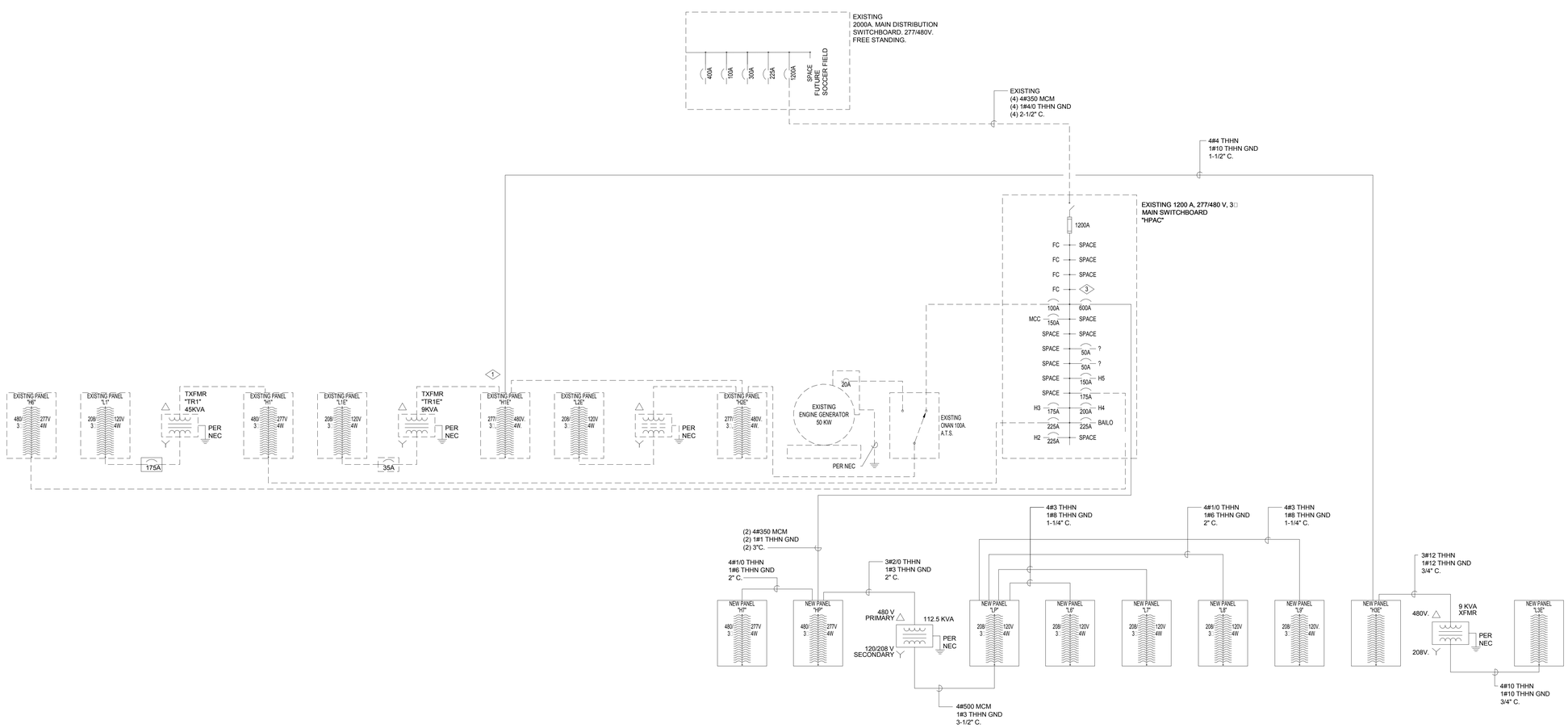
## REFERENCE NOTES:

1. PROVIDE SUBFEED LUGS TO FEED POWER TO NEW PANEL "H3E".
2. REMOVE EXISTING 45KVA TRANSFORMER, DISCONNECT, CIRCUIT BREAKER, ASSOCIATED CONDUIT AND CONDUCTORS.
3. FURNISH AND INSTALL A 600 AMP 3 POLE CIRCUIT BREAKER. NEW CIRCUIT BREAKER SHALL HAVE THE SAME AIC RATING AS EXISTING.




## EXISTING POWER SINGLE LINE DIAGRAM

SCALE: N.T.S.




## NEW PARTIAL POWER SINGLE LINE DIAGRAM

SCALE: N.T.S.


VCBO
ARCHITECTURE
VALENTINER
CRANE
BRUNJES
ONYON

VCBO ARCHITECTURE
524 SOUTH 600 EAST
SALT LAKE CITY, UT 84102
Phone: (801) 575-8800
Fax: (801) 531-9850
WWW: www.vcbo.com


DFCM CODE COMPLIANCE STAMP

# Stromberg Student Activity Center

## Stromberg Addition - BID SET

Weber State University
3750 Harrison Blvd. Ogden, UT 84408

| Rev # | Date | Description |
|---|---|---|

Job # 4317
CAD File
Drawn PB Checked AM
Date 10.03.2012
Owner #

POWER SINGLE LINE DIAGRAM

EE-004

10/3/2012 8:49:46 AM

## (E) Branch Panel: L1

**Location:** CLUB 109 **Volts:** 120/208 Wye **A.I.C. Rating:**
**Supply From:** **Phases:** 3 **Mains Type:**
**Mounting:** **Wires:** 4 **Mains Rating:** 400 A
**Enclosure:** **MCB Rating:**

**Notes:**

| CKT | Circuit Description | Trip | Poles | A | B | C | Poles | Trip | Circuit Description | CKT |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | ROOM 050B, 050A | 20 A | 1 | 1440 | 720 | | 1 | 20 A | ROOM 050C | 2 |
| 3 | WORK STATION 050D | 20 A | 1 | | 540 | 900 | 1 | 20 A | ROOM 050, 050D | 4 |
| 5 | ROOM 050E, 050F | 20 A | 1 | | | 1440 720 | 1 | 20 A | CIRCULATION 200 | 6 |
| 7 | Outlet WORK STATION 050D | 20 A | 1 | 180 | 540 | | 1 | 20 A | Outlet CONF 050C | 8 |
| 9 | Outlet WORK STATION 050D | 20 A | 1 | | 360 | 720 | 1 | 20 A | Outlet WELLNESS CENTER 050 | 10 |
| 11 | | | | | | | | | | 12 |
| 13 | | | | | | | | | | 14 |
| 15 | | | | | | | | | | 16 |
| 17 | | | | | | | | | | 18 |
| 19 | | | | | | | | | | 20 |
| 21 | | | | | | | | | | 22 |
| 23 | | | | | | | | | | 24 |
| 25 | | | | | | | | | | 26 |
| 27 | | | | | | | | | | 28 |
| 29 | | | | | | | | | | 30 |
| 31 | | | | | | | | | | 32 |
| 33 | | | | | | | | | | 34 |
| 35 | | | | | | | | | | 36 |
| 37 | | | | | | | | | | 38 |
| 39 | | | | | | | | | | 40 |
| 41 | | | | | | | | | | 42 |
| | **Total Load:** | | | 2880 VA | | 2520 VA | 2160 VA | | | |
| | **Total Amps:** | | | 24 A | | 21 A | 18 A | | | |

**Legend:**

| Load Classification | Connected Load | Demand Factor | Estimated Demand | Panel Totals | |
|---|---|---|---|---|---|
| Outlet | 7560 VA | 100.00% | 7560 VA | | |
| | | | | **Total Conn. Load:** | 7560 VA |
| | | | | **Total Est. Demand:** | 7560 VA |
| | | | | **Total Conn.:** | 21 A |
| | | | | **Total Est. Demand:** | 21 A |

**Notes:**

## Branch Panel: HP

**Location:** MECHANICAL 150 **Volts:** 480/277 Wye **A.I.C. Rating:**
**Supply From:** **Phases:** 3 **Mains Type:**
**Mounting:** **Wires:** 4 **Mains Rating:** 600 A
**Enclosure:** **MCB Rating:**

**Notes:**

| CKT | Circuit Description | Trip | Poles | A | B | C | Poles | Trip | Circuit Description | CKT |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | ELEVATOR | 175 A | 3 | 20400 VA | 29255 VA | | 3 | 175 A | PANEL LP | 2 |
| 3 | -- | -- | -- | | 20400 VA | 25172 VA | -- | -- | -- | 4 |
| 5 | -- | -- | -- | | | 20400 VA 25688 VA | -- | -- | -- | 6 |
| 7 | PANEL H7 | 150 A | 3 | 13533 VA | 5500 VA | | 3 | 35 A | SF-1 | 8 |
| 9 | -- | -- | -- | | 12072 VA | 5500 VA | -- | -- | -- | 10 |
| 11 | -- | -- | -- | | | 8470 VA 5500 VA | -- | -- | -- | 12 |
| 13 | WH-2 | 140 A | 3 | 30000 VA | 5500 VA | | 3 | 35 A | SF-2 | 14 |
| 15 | -- | -- | -- | | 30000 VA | 5500 VA | -- | -- | -- | 16 |
| 17 | -- | -- | -- | | | 30000 VA 5500 VA | -- | -- | -- | 18 |
| 19 | WH-1 | 140 A | 3 | 30000 VA | 5500 VA | | 3 | 35 A | SF-3 | 20 |
| 21 | -- | -- | -- | | 30000 VA | 5500 VA | -- | -- | -- | 22 |
| 23 | -- | -- | -- | | | 30000 VA 5500 VA | -- | -- | -- | 24 |
| 25 | p-1 | 70 A | 3 | 10000 VA | 5500 VA | | 3 | 35 A | SF-4 | 26 |
| 27 | -- | -- | -- | | 10000 VA | 5500 VA | -- | -- | -- | 28 |
| 29 | -- | -- | -- | | | 10000 VA 5500 VA | -- | -- | -- | 30 |
| 31 | RF-1 | 30 A | 3 | 3700 VA | 1667 VA | | 3 | 30 A | RF-2 | 32 |
| 33 | -- | -- | -- | | 3700 VA | 1667 VA | -- | -- | -- | 34 |
| 35 | -- | -- | -- | | | 3700 VA 1667 VA | -- | -- | -- | 36 |
| 37 | SPARE | 150 A | 3 | 0 VA | 0 VA | | 3 | 30 A | SPARE | 38 |
| 39 | -- | -- | -- | | 0 VA | 0 VA | -- | -- | -- | 40 |
| 41 | -- | -- | -- | | | 0 VA 0 VA | -- | -- | -- | 42 |
| | **Total Load:** | | | 160555 VA | 155011 VA | 151925 VA | | | | |
| | **Total Amps:** | | | 581 A | 561 A | 548 A | | | | |

**Legend:**

| Load Classification | Connected Load | Demand Factor | Estimated Demand | Panel Totals | |
|---|---|---|---|---|---|
| HVAC | 303916 VA | 100.00% | 303916 VA | | |
| Lighting | 20852 VA | 125.00% | 26065 VA | **Total Conn. Load:** | 467490 VA |
| Other | 6862 VA | 100.00% | 6862 VA | **Total Est. Demand:** | 440623 VA |
| Power | 61700 VA | 100.00% | 61700 VA | **Total Conn.:** | 562 A |
| Outlet | 74160 VA | 56.74% | 42080 VA | **Total Est. Demand:** | 530 A |

**Notes:**

## Branch Panel: H7

**Location:** MECHANICAL 150 **Volts:** 480/277 Wye **A.I.C. Rating:**
**Supply From:** HP **Phases:** 3 **Mains Type:**
**Mounting:** **Wires:** 4 **Mains Rating:** 200 A
**Enclosure:**

**Notes:**

| CKT | Circuit Description | Trip | Poles | A | B | C | Poles | Trip | Circuit Description | CKT |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | Lighting | 20 A | 1 | 1080 | 1410 | | 1 | 20 A | Room 105-1, 105A, 105C, 105B | 2 |
| 3 | Lighting | 20 A | 1 | | 916 | 3500 | 1 | 20 A | WH-3 | 4 |
| 5 | STOR / MAINT 209 | 20 A | 1 | | | 1632 2722 | 1 | 20 A | Room 103A, 102, 105, 103B | 6 |
| 7 | Other | 20 A | 1 | 2898 | 3500 | | 1 | 20 A | WH-4 | 8 |
| 9 | Room 110-1, 109A-1, 109 | 20 A | 1 | | 640 | 1766 | 1 | 20 A | Lighting | 10 |
| 11 | Lighting | 20 A | 1 | | | 1400 1732 | 1 | 20 A | Room 208, 100A | 12 |
| 13 | Lighting | 20 A | 1 | 4517 | 128 | | 1 | 20 A | Room 203A, 203 | 14 |
| 15 | Lighting | 20 A | 1 | | 1750 | 3500 | 1 | 20 A | HVAC | 16 |
| 17 | Lighting | 20 A | 1 | | | 384 600 | 1 | 20 A | SIGN LTG. | 18 |
| 19 | SPARE | 20 A | 1 | 0 VA | 0 VA | | 3 | 20 A | SPARE | 20 |
| 21 | SPARE | 20 A | 1 | | 0 VA | 0 VA | -- | -- | -- | 22 |
| 23 | SPARE | 20 A | 1 | | | 0 VA 0 VA | -- | -- | -- | 24 |
| 25 | SPARE | 20 A | 1 | 0 VA | 0 VA | | -- | -- | SPACE | 26 |
| 27 | SPARE | 20 A | 1 | | 0 VA | 0 VA | -- | -- | SPACE | 28 |
| 29 | SPARE | 20 A | 1 | | | 0 VA 0 VA | -- | -- | SPACE | 30 |
| 31 | SPARE | 20 A | 1 | 0 VA | 0 VA | | -- | -- | SPACE | 32 |
| 33 | SPARE | 20 A | 1 | | 0 VA | 0 VA | -- | -- | SPACE | 34 |
| 35 | SPARE | 20 A | 1 | | | 0 VA 0 VA | -- | -- | SPACE | 36 |
| 37 | SPARE | 30 A | 3 | 0 VA | 0 VA | | -- | -- | SPACE | 38 |
| 39 | -- | -- | -- | | 0 VA | 0 VA | -- | -- | SPACE | 40 |
| 41 | -- | -- | -- | | | 0 VA 0 VA | -- | -- | SPACE | 42 |
| | **Total Load:** | | | 13533 VA | 12072 VA | 8470 VA | | | | |
| | **Total Amps:** | | | 51 A | 46 A | 31 A | | | | |

**Legend:**

| Load Classification | Connected Load | Demand Factor | Estimated Demand | Panel Totals | |
|---|---|---|---|---|---|
| HVAC | 10500 VA | 100.00% | 10500 VA | | |
| Lighting | 20677 VA | 125.00% | 25846 VA | **Total Conn. Load:** | 34075 VA |
| Other | 2898 VA | 100.00% | 2898 VA | **Total Est. Demand:** | 39244 VA |
| | | | | **Total Conn.:** | 41 A |
| | | | | **Total Est. Demand:** | 47 A |

**Notes:**

## Branch Panel: L6

**Location:** MECHANICAL 150 **Volts:** 120/208 Wye **A.I.C. Rating:**
**Supply From:** LP **Phases:** 3 **Mains Type:**
**Mounting:** **Wires:** 4 **Mains Rating:** 100 A
**Enclosure:** **MCB Rating:**

**Notes:**

| CKT | Circuit Description | Trip | Poles | A | B | C | Poles | Trip | Circuit Description | CKT |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | OFFICE 008C, 008B, 008A | 20 A | 1 | 1080 | 1080 | | 1 | 20 A | GROUP FITNESS 101 / STORAGE 101A | 2 |
| 3 | STUDENT WORKROOM 008 | 20 A | 1 | | 540 | 104 | 2 | 20 A | ACC-2 | 4 |
| 5 | Outlet STUDENT WORKROOM-1 105-1 | 20 A | 1 | | | 360 104 | -- | -- | -- | 6 |
| 7 | OFFICE 001E, 001F | 20 A | 1 | 1440 | 180 | | 1 | 20 A | UH-1 | 8 |
| 9 | OFFICE 001C, 001D | 20 A | 1 | | 1440 | 180 | 1 | 20 A | CUH-1 | 10 |
| 11 | RECEPTION 001 / HALL 001H | 20 A | 1 | | | 720 360 | 1 | 20 A | Outlet STUDIO STORAGE 202A | 12 |
| 13 | OFFICE 001G / HALL 001H | 20 A | 1 | 900 | 900 | | 1 | 20 A | WOMENS LOCKER/SHOWERS 104 | 14 |
| 15 | Outlet Room 001B, 0E1 | 20 A | 1 | | 1080 | 180 | 1 | 20 A | CIRCULATION 100 | 16 |
| 17 | EQUIP. 001A / CONTROL 000 | 20 A | 1 | | | 1080 720 | 1 | 20 A | CIRCULATION 100 / STAIRS 299B | 18 |
| 19 | CONTROL 000 / VESTIBULE 00A | 20 A | 1 | 720 | 720 | | 1 | 20 A | ROOMS 106, 105, 106A | 20 |
| 21 | LOBBY 002 | 20 A | 1 | | 180 | 360 | 1 | 20 A | CIRCULATION 200 | 22 |
| 23 | ELEV. EQUIP 007 | 20 A | 1 | | | 500 900 | 1 | 20 A | EXISTING STORAGE 108 | 24 |
| 25 | Outlet MAINTENANCE 005 | 20 A | 1 | 540 | 728 | | 2 | 30 A | EXISTING STORAGE 108 | 26 |
| 27 | ELEV. EQUIP 007 | 20 A | 1 | | 180 | 728 | -- | -- | -- | 28 |
| 29 | LOBBY 002 / MAINTENANCE 005 | 20 A | 1 | | | 720 180 | 1 | 20 A | STUDIO STORAGE 101A | 30 |
| 31 | Outlet STUDENT WORKROOM-1 105-1 | 20 A | 1 | 360 | 360 | | 1 | 20 A | Outlet STUDENT WORKROOM-1 105-1 | 32 |
| 33 | Spare | 20 A | 1 | | 0 VA | 0 VA | 1 | 20 A | Spare | 34 |
| 35 | Spare | 20 A | 1 | | | 0 VA 0 VA | 1 | 20 A | Spare | 36 |
| 37 | Spare | 20 A | 1 | 0 VA | 0 VA | | 1 | 20 A | Spare | 38 |
| 39 | Spare | 20 A | 1 | | 0 VA | 0 VA | 1 | 20 A | Spare | 40 |
| 41 | Spare | 20 A | 1 | | | 0 VA 0 VA | 1 | 20 A | Spare | 42 |
| | **Total Load:** | | | 9008 VA | 4972 VA | 5644 VA | | | | |
| | **Total Amps:** | | | 76 A | 41 A | 48 A | | | | |

**Legend:**

| Load Classification | Connected Load | Demand Factor | Estimated Demand | Panel Totals | |
|---|---|---|---|---|---|
| HVAC | 568 VA | 100.00% | 568 VA | | |
| Other | 1456 VA | 100.00% | 1456 VA | **Total Conn. Load:** | 19624 VA |
| Power | 500 VA | 100.00% | 500 VA | **Total Est. Demand:** | 16074 VA |
| Outlet | 17100 VA | 79.24% | 13550 VA | **Total Conn.:** | 54 A |
| | | | | **Total Est. Demand:** | 45 A |

**Notes:**

## Branch Panel: L7

**Location:** MECHANICAL 150 **Volts:** 120/208 Wye **A.I.C. Rating:**
**Supply From:** LP **Phases:** 3 **Mains Type:**
**Mounting:** **Wires:** 4 **Mains Rating:** 100 A
**Enclosure:** **MCB Rating:**

**Notes:**

| CKT | Circuit Description | Trip | Poles | A | B | C | Poles | Trip | Circuit Description | CKT |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | MAINTENANCE 005 | 20 A | 1 | 360 | 728 | | 2 | 30 A | MAINTENANCE 005 | 2 |
| 3 | STAIRS 099B | 20 A | 1 | | | 360 728 | -- | -- | -- | 4 |
| 5 | Outlet EQUIP 001A | 20 A | 1 | | | 180 1080 | 1 | 20 A | MENS LOCKER/SHOWER 103 | 6 |
| 7 | Outlet | 20 A | 1 | 900 | 180 | | 1 | 20 A | Outlet STORAGE 103B | 8 |
| 9 | Outlet | 20 A | 1 | | 900 | 180 | 1 | 20 A | Outlet STUDIO STORAGE 106A | 10 |
| 11 | MECHANICAL 091 / STAIRS 099B | 20 A | 1 | | | 720 180 | 1 | 20 A | Outlet | 12 |
| 13 | Cardio Equipment | 20 A | 1 | 1000 | 1000 | | 1 | 20 A | Cardio Equipment | 14 |
| 15 | Outlet | 20 A | 1 | | 540 | 1000 | 1 | 20 A | Cardio Equipment | 16 |
| 17 | Outlet | 20 A | 1 | | | 360 540 | 1 | 20 A | Outlet | 18 |
| 19 | Outlet CONF 101B | 20 A | 1 | 180 | 180 | | 1 | 20 A | Outlet OFFICE 101D | 20 |
| 21 | Outlet LOBBY 102 | 20 A | 1 | | 360 | 720 | 1 | 20 A | Outlet RECEPTION 101 | 22 |
| 23 | Other | 20 A | 1 | | | 540 720 | 1 | 20 A | Outlet CONTROL-1 100-1 | 24 |
| 25 | Outlet MEN'S LOCKER/SHOWER 206 | 20 A | 1 | 180 | 360 | | 1 | 20 A | Outlet | 26 |
| 27 | Outlet MEN'S LOCKER/SHOWER 206 | 20 A | 1 | | 180 | 180 | 1 | 20 A | Outlet MEN'S LOCKER/SHOWER 206 | 28 |
| 29 | Outlet WOMENS LOCKER/SHOWER 207 | 20 A | 1 | | | 180 180 | 1 | 20 A | Outlet WOMENS LOCKER/SHOWER 207 | 30 |
| 31 | Outlet PEDESTRIAN BRIDGE 213 | 20 A | 1 | 180 | 180 | | 1 | 20 A | Outlet WOMENS LOCKER/SHOWER 207 | 32 |
| 33 | Spare | 20 A | 1 | | 0 VA | 180 | 1 | 20 A | Outlet | 34 |
| 35 | Spare | 20 A | 1 | | | 0 VA 0 VA | 1 | 20 A | Spare | 36 |
| 37 | Spare | 20 A | 1 | 0 VA | 0 VA | | 1 | 20 A | Spare | 38 |
| 39 | Spare | 20 A | 1 | | 0 VA | 0 VA | 1 | 20 A | Spare | 40 |
| 41 | Spare | 20 A | 1 | | | 0 VA 0 VA | 1 | 20 A | Spare | 42 |
| | **Total Load:** | | | 5428 VA | 5328 VA | 4680 VA | | | | |
| | **Total Amps:** | | | 46 A | 45 A | 39 A | | | | |

**Legend:**

| Load Classification | Connected Load | Demand Factor | Estimated Demand | Panel Totals | |
|---|---|---|---|---|---|
| Other | 1996 VA | 100.00% | 1996 VA | | |
| Outlet | 13440 VA | 87.20% | 11720 VA | **Total Conn. Load:** | 15436 VA |
| | | | | **Total Est. Demand:** | 13716 VA |
| | | | | **Total Conn.:** | 43 A |
| | | | | **Total Est. Demand:** | 38 A |

**Notes:**

## Branch Panel: L8

**Location:** MECHANICAL 150 **Volts:** 120/208 Wye **A.I.C. Rating:**
**Supply From:** LP **Phases:** 3 **Mains Type:**
**Mounting:** **Wires:** 4 **Mains Rating:** 225 A
**Enclosure:** **MCB Rating:**

**Notes:**

| CKT | Circuit Description | Trip | Poles | A | B | C | Poles | Trip | Circuit Description | CKT |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | Treadmill | 20 A | 1 | 1000 | 1000 | | 1 | 20 A | Cardio Equipment | 2 |
| 3 | Treadmill | 20 A | 1 | | 1000 | 1000 | 1 | 20 A | Cardio Equipment | 4 |
| 5 | Treadmill | 20 A | 1 | | | 1000 1000 | 1 | 20 A | Cardio Equipment | 6 |
| 7 | Treadmill | 20 A | 1 | 1000 | 1000 | | 1 | 20 A | Cardio Equipment | 8 |
| 9 | Treadmill | 20 A | 1 | | 1000 | 1000 | 1 | 20 A | Cardio Equipment | 10 |
| 11 | Treadmill | 20 A | 1 | | | 1000 1000 | 1 | 20 A | Cardio Equipment | 12 |
| 13 | Treadmill | 20 A | 1 | 1000 | 1000 | | 1 | 20 A | Cardio Equipment | 14 |
| 15 | Treadmill | 20 A | 1 | | 1000 | 1000 | 1 | 20 A | Cardio Equipment | 16 |
| 17 | Treadmill | 20 A | 1 | | | 1000 1000 | 1 | 20 A | Cardio Equipment | 18 |
| 19 | Treadmill | 20 A | 1 | 1000 | 1000 | | 1 | 20 A | Cardio Equipment | 20 |
| 21 | Treadmill | 20 A | 1 | | 1000 | 1000 | 1 | 20 A | Cardio Equipment | 22 |
| 23 | Treadmill | 20 A | 1 | | | 1000 1000 | 1 | 20 A | Cardio Equipment | 24 |
| 25 | Treadmill | 20 A | 1 | 1000 | 1000 | | 1 | 20 A | Cardio Equipment | 26 |
| 27 | Treadmill | 20 A | 1 | | 1000 | 1000 | 1 | 20 A | Cardio Equipment | 28 |
| 29 | Treadmill | 20 A | 1 | | | 1000 1000 | 1 | 20 A | Cardio Equipment | 30 |
| 31 | Cardio Equipment | 20 A | 1 | 1000 | 1000 | | 1 | 20 A | Cardio Equipment | 32 |
| 33 | Cardio Equipment | 20 A | 1 | | 1000 | 1000 | 1 | 20 A | Cardio Equipment | 34 |
| 35 | Cardio Equipment | 20 A | 1 | | | 1000 1000 | 1 | 20 A | Cardio Equipment | 36 |
| 37 | Cardio Equipment | 20 A | 1 | 1000 | 1000 | | 1 | 20 A | Cardio Equipment | 38 |
| 39 | Cardio Equipment | 20 A | 1 | | 1000 | 1000 | 1 | 20 A | Cardio Equipment | 40 |
| 41 | Cardio Equipment | 20 A | 1 | | | 1000 1000 | 1 | 20 A | Cardio Equipment | 42 |
| | **Total Load:** | | | 14000 VA | 14000 VA | 14000 VA | | | | |
| | **Total Amps:** | | | 117 A | 117 A | 117 A | | | | |

**Legend:**

| Load Classification | Connected Load | Demand Factor | Estimated Demand | Panel Totals | |
|---|---|---|---|---|---|
| Outlet | 42000 VA | 61.90% | 26000 VA | | |
| | | | | **Total Conn. Load:** | 42000 VA |
| | | | | **Total Est. Demand:** | 26000 VA |
| | | | | **Total Conn.:** | 117 A |
| | | | | **Total Est. Demand:** | 72 A |

**Notes:**


VCBO
ARCHITECTURE
VALENTINER
CRANE
BRUNJES
ONYON

VCBO ARCHITECTURE
524 SOUTH 600 EAST
SALT LAKE CITY, UT 84102
Phone: (801) 575-8800
Fax: (801) 531-9850
WWW: www.vcbo.com


DFCM CODE COMPLIANCE STAMP

# Stromberg Student Activity Center

Stromberg Addition - BID SET

Weber State University
3750 Harrison Blvd. Ogden, UT 84408

Rev # Date Description

Job # 4317
CAD File
Drawn PB Checked AM
Date 10.03.2012
Owner #

PANEL SCHEDULES

EE-005

10/3/2012 8:49:47 AM

## Branch Panel: LP

**Location:** MECHANICAL 150 | **Volts:** 120/208 Wye | **A.I.C. Rating:**
**Supply From:** 112.5 KVA XFMR | **Phases:** 3 | **Mains Type:**
**Mounting:** | **Wires:** 4 | **Mains Rating:** 400 A
**Enclosure:** | **MCB Rating:** 400 A

**Notes:**

| CKT | Circuit Description | Trip | Poles | A | | B | | C | | Poles | Trip | Circuit Description | CKT |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | L6 | 100 A | 3 | 9008 | 5428 | | | | | 3 | 100 A | L7 | 2 |
| 3 | -- | -- | -- | | | 4972 | 5328 | | | -- | -- | -- | 4 |
| 5 | -- | -- | -- | | | | | 5644 | 4680 | -- | -- | -- | 6 |
| 7 | L8 | 150 A | 3 | 1400 | 819 | | | | | 3 | 100 A | L9 | 8 |
| 9 | -- | -- | -- | | | 1400 | 872 | | | -- | -- | -- | 10 |
| 11 | -- | -- | -- | | | | | 1400 | 1364 | -- | -- | -- | 12 |
| 13 | SPARE | 100 A | 3 | 0 VA | 0 VA | | | | | 3 | 40 A | SPARE | 14 |
| 15 | -- | -- | -- | | | 0 VA | 0 VA | | | -- | -- | -- | 16 |
| 17 | -- | -- | -- | | | | | 0 VA | 0 VA | -- | -- | -- | 18 |
| 19 | SPARE | 60 A | 3 | 0 VA | 0 VA | | | | | 3 | 20 A | SPARE | 20 |
| 21 | -- | -- | -- | | | 0 VA | 0 VA | | | -- | -- | -- | 22 |
| 23 | -- | -- | -- | | | | | 0 VA | 0 VA | -- | -- | -- | 24 |
| 25 | SPACE | -- | -- | 0 VA | 0 VA | | | | | -- | -- | SPACE | 26 |
| 27 | SPACE | -- | -- | | | 0 VA | 0 VA | | | -- | -- | SPACE | 28 |
| 29 | SPACE | -- | -- | | | | | 0 VA | 0 VA | -- | -- | SPACE | 30 |
| 31 | SPACE | -- | -- | 0 VA | 0 VA | | | | | -- | -- | SPACE | 32 |
| 33 | SPACE | -- | -- | | | 0 VA | 0 VA | | | -- | -- | SPACE | 34 |
| 35 | SPACE | -- | -- | | | | | 0 VA | 0 VA | -- | -- | SPACE | 36 |
| 37 | SPACE | -- | -- | 0 VA | 0 VA | | | | | -- | -- | SPACE | 38 |
| 39 | SPACE | -- | -- | | | 0 VA | 0 VA | | | -- | -- | SPACE | 40 |
| 41 | SPACE | -- | -- | | | | | 0 VA | 0 VA | -- | -- | SPACE | 42 |
| | | | **Total Load:** | 29255 VA | | 25172 VA | | 25688 VA | | | | | |
| | | | **Total Amps:** | 244 A | | 210 A | | 215 A | | | | | |

**Legend:**

| Load Classification | Connected Load | Demand Factor | Estimated Demand | Panel Totals | |
|---|---|---|---|---|---|
| HVAC | 1316 VA | 100.00% | 1316 VA | | |
| Lighting | 175 VA | 125.00% | 219 VA | **Total Conn. Load:** | 80115 VA |
| Other | 3964 VA | 100.00% | 3964 VA | **Total Est. Demand:** | 48079 VA |
| Power | 500 VA | 100.00% | 500 VA | **Total Conn.:** | 222 A |
| Outlet | 74160 VA | 56.74% | 42080 VA | **Total Est. Demand:** | 133 A |

**Notes:**

## Branch Panel: L9

**Location:** MECHANICAL 150 | **Volts:** 120/208 Wye | **A.I.C. Rating:**
**Supply From:** LP | **Phases:** 3 | **Mains Type:**
**Mounting:** | **Wires:** 4 | **Mains Rating:** 100 A
**Enclosure:** | **MCB Rating:**

**Notes:**

| CKT | Circuit Description | Trip | Poles | A | | B | | C | | Poles | Trip | Circuit Description | CKT |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | Lighting | 20 A | 1 | 175 | 180 | | | | | 1 | 20 A | EF-1 | 2 |
| 3 | DCP-1 | 20 A | 1 | | | 180 | 180 | | | 1 | 20 A | Outlet | 4 |
| 5 | SCP-1 | 20 A | 1 | | | | | 180 | 1080 | 1 | 20 A | Outlet | 6 |
| 7 | Outlet | 20 A | 1 | 180 | 180 | | | | | 1 | 20 A | Outlet | 8 |
| 9 | AHU LTG. | 20 A | 1 | | | 512 | 0 VA | | | 1 | 20 A | SPARE | 10 |
| 11 | ACC-1 | 20 A | 2 | | | | | 104 | 0 VA | 1 | 20 A | SPARE | 12 |
| 13 | -- | -- | -- | 104 | 0 VA | | | | | 1 | 20 A | SPARE | 14 |
| 15 | SPACE | -- | -- | | | 0 VA | 0 VA | | | -- | -- | SPACE | 16 |
| 17 | SPACE | -- | -- | | | | | 0 VA | 0 VA | -- | -- | SPACE | 18 |
| 19 | SPACE | -- | -- | 0 VA | 0 VA | | | | | -- | -- | SPACE | 20 |
| 21 | SPACE | -- | -- | | | 0 VA | 0 VA | | | -- | -- | SPACE | 22 |
| 23 | SPACE | -- | -- | | | | | 0 VA | 0 VA | -- | -- | SPACE | 24 |
| 25 | SPACE | -- | -- | 0 VA | 0 VA | | | | | -- | -- | SPACE | 26 |
| 27 | SPACE | -- | -- | | | 0 VA | 0 VA | | | -- | -- | SPACE | 28 |
| 29 | SPACE | -- | -- | | | | | 0 VA | 0 VA | -- | -- | SPACE | 30 |
| 31 | SPACE | -- | -- | 0 VA | 0 VA | | | | | -- | -- | SPACE | 32 |
| 33 | SPARE | 20 A | 1 | | | 0 VA | 0 VA | | | 1 | 20 A | SPARE | 34 |
| 35 | SPARE | 20 A | 1 | | | | | 0 VA | 0 VA | 1 | 20 A | SPARE | 36 |
| 37 | SPARE | 20 A | 1 | 0 VA | 0 VA | | | | | 1 | 20 A | SPARE | 38 |
| 39 | SPARE | 20 A | 1 | | | 0 VA | 0 VA | | | 1 | 20 A | SPARE | 40 |
| 41 | SPARE | 20 A | 1 | | | | | 0 VA | 0 VA | 1 | 20 A | SPARE | 42 |
| | | | **Total Load:** | 819 VA | | 872 VA | | 1364 VA | | | | | |
| | | | **Total Amps:** | 7 A | | 7 A | | 11 A | | | | | |

**Legend:**

| Load Classification | Connected Load | Demand Factor | Estimated Demand | Panel Totals | |
|---|---|---|---|---|---|
| HVAC | 748 VA | 100.00% | 748 VA | | |
| Lighting | 175 VA | 125.00% | 219 VA | **Total Conn. Load:** | 3055 VA |
| Other | 512 VA | 100.00% | 512 VA | **Total Est. Demand:** | 3099 VA |
| Outlet | 1620 VA | 100.00% | 1620 VA | **Total Conn.:** | 8 A |
| | | | | **Total Est. Demand:** | 9 A |

**Notes:**

## Branch Panel: HE3

**Location:** MECHANICAL 150 | **Volts:** 480/277 Wye | **A.I.C. Rating:**
**Supply From:** | **Phases:** 3 | **Mains Type:**
**Mounting:** | **Wires:** 4 | **Mains Rating:** 100 A
**Enclosure:** | **MCB Rating:** 60 A

**Notes:**

| CKT | Circuit Description | Trip | Poles | A | | B | | C | | Poles | Trip | Circuit Description | CKT |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | PANEL LE3 | 20 A | 3 | 1000 | 630 | | | | | 1 | 20 A | EM. LTG. | 2 |
| 3 | -- | -- | -- | | | 720 | 764 | | | 1 | 20 A | EM. LTG. | 4 |
| 5 | -- | -- | -- | | | | | 720 | 512 | 1 | 20 A | EM. LTG. | 6 |
| 7 | EM. LTG. | 20 A | 1 | 1762 | 192 | | | | | 1 | 20 A | EM. LTG. | 8 |
| 9 | | | | | | | | | | | | | 10 |
| 11 | | | | | | | | | | | | | 12 |
| 13 | | | | | | | | | | | | | 14 |
| 15 | | | | | | | | | | | | | 16 |
| 17 | | | | | | | | | | | | | 18 |
| | | | **Total Load:** | 3584 VA | | 1484 VA | | 1232 VA | | | | | |
| | | | **Total Amps:** | 13 A | | 5 A | | 4 A | | | | | |

**Legend:**

| Load Classification | Connected Load | Demand Factor | Estimated Demand | Panel Totals | |
|---|---|---|---|---|---|
| Lighting | 3230 VA | 125.00% | 4038 VA | | |
| Other | 630 VA | 100.00% | 630 VA | **Total Conn. Load:** | 5300 VA |
| Outlet | 1440 VA | 100.00% | 1440 VA | **Total Est. Demand:** | 6108 VA |
| | | | | **Total Conn.:** | 6 A |
| | | | | **Total Est. Demand:** | 7 A |

**Notes:**

## Branch Panel: L3E

**Location:** MECHANICAL 150 | **Volts:** 120/208 Wye | **A.I.C. Rating:**
**Supply From:** 9 KVA XFMR | **Phases:** 3 | **Mains Type:**
**Mounting:** | **Wires:** 4 | **Mains Rating:** 60 A
**Enclosure:** | **MCB Rating:** 35 A

**Notes:**

| CKT | Circuit Description | Trip | Poles | A | | B | | C | | Poles | Trip | Circuit Description | CKT |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | ATC PANEL | 20 A | 1 | 500 | 500 | | | | | 1 | 20 A | ATC PANEL | 2 |
| 3 | COMM 102 | 20 A | 1 | | | 360 | 360 | | | 1 | 20 A | COMM 102 | 4 |
| 5 | COMM 102 | 20 A | 1 | | | | | 360 | 360 | 1 | 20 A | COMM 102 | 6 |
| 7 | | | | | | | | | | | | | 8 |
| 9 | | | | | | | | | | | | | 10 |
| 11 | | | | | | | | | | | | | 12 |
| 13 | | | | | | | | | | | | | 14 |
| 15 | | | | | | | | | | | | | 16 |
| 17 | | | | | | | | | | | | | 18 |
| | | | **Total Load:** | 1000 VA | | 720 VA | | 720 VA | | | | | |
| | | | **Total Amps:** | 8 A | | 6 A | | 6 A | | | | | |

**Legend:**

| Load Classification | Connected Load | Demand Factor | Estimated Demand | Panel Totals | |
|---|---|---|---|---|---|
| Outlet | 1440 VA | 100.00% | 1440 VA | | |
| | | | | **Total Conn. Load:** | 1440 VA |
| | | | | **Total Est. Demand:** | 1440 VA |
| | | | | **Total Conn.:** | 4 A |
| | | | | **Total Est. Demand:** | 4 A |

**Notes:**

## MECHANICAL EQUIPMENT SCHEDULE

| | NAME OF MECHANICAL EQUIPMENT | AIR COOLED CONDENSING UNIT/SPLIT SYSTEM | AIR COOLED CONDENSING UNIT/SPLIT SYSTEM | AIR COOLED CONDENSING UNIT/SPLIT SYSTEM | AIR HANDLING UNIT | CONDENSATE PUMP | CABINET UNIT HEATER | DOMESTIC RECIRCULATION PUMP | EXHAUST FAN | EXHAUST FAN | EXHAUST FAN | ELECTRICAL RADIANT CEILING PANEL | ELEVATOR | FAN COIL UNIT | PUMP | RELIEF FAN | RELIEF FAM | STEAM CONDENSATE RETURN PUMP | SUPPLY FAN | SUPPLY FAN | SUPPLY FAN | SUPPLY FAN | ELECTRIC UNIT HEATER | WATER HEATER | WATER HEATER | WATER HEATER | WATER HEATER | WATER HEATER |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MOTOR DATA | EQUIPMENT NO. | ACC-1 | CU-1 | ACC-2 | CU-2 | ACC-3 | CU-3 | AHU-1 | CP-1 | CUH-1 | DCP-1 | EF-1 | EF-2 | EF-3 | ERP-1 | EL-1 | FCU-1 | P-1 | RF-1 | RF-2 | SCP-1 | SF-1 | SF-2 | SF-3 | SF-4 | UH-1 | WH-1 | WH-2 | WH-3 | WH-4 | WH-5 |
| | RATING/WATTS | -- | -- | -- | -- | -- | -- | (4)15 HP | 1/30 HP | 1/10 HP | .12 HP | 1/2 HP | 47W | 258W | 750W | 60 HP | 1/2 HP | 30 HP | 10 HP | 10 HP | 1/3 HP | 15 HP | 15 HP | 15 HP | 15 HP | 1/20 HP | 90 KW | 90 KW | 3.5 | 3.5 | 3.5 |
| | VOLTAGE | 208 | 208 | 208 | 208 | 208 | 208 | 480 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 480 | 120 | 480 | 480 | 480 | 120 | 480 | 480 | 480 | 120 | 480 | 480 | 277 | 277 | 277 |
| | PHASE | 1 | 1 | 1 | 1 | 1 | 1 | 3 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 3 | 1 | 3 | 3 | 3 | 1 | 3 | 3 | 3 | 3 | 1 | 3 | 3 | 1 | 1 | 1 |
| | AMPS | 1 | 13 | 1 | 25 | 1 | 13 | -- | -- | -- | -- | 8 | -- | -- | -- | -- | -- | 38.3 | -- | -- | -- | 20 | 20 | 20 | 20 | -- | -- | -- | -- | -- | -- |
| | WIRE SIZE | 2#12 | 2#12 | 2#12 | 2#10 | 2#12 | 2#12 | 3#2 | 2#12 | 2#12 | 2#12 | 2#12 | 2#12 | 2#12 | 3#2/0 | 2#12 | 3#6 | 3#10 | 3#10 | 2#12 | 3#10 | 3#10 | 3#10 | 3#10 | 2#12 | 3#2/0 | 3#2/0 | 2#12 | 2#12 | 2#12 |
| | GROUND WIRE | 1#12 | 1#12 | 1#12 | 1#10 | 1#12 | 1#12 | 1#6 | 1#12 | 1#12 | 1#12 | 1#12 | 1#12 | 1#12 | 1#12 | 1#6 | 1#12 | 1#8 | 1#10 | 1#10 | 1#12 | 1#10 | 1#10 | 1#10 | 1#10 | 1#12 | 1#6 | 1#6 | 1#12 | 1#12 | 1#12 |
| | CONDUIT SIZE | 3/4" | 3/4" | 3/4" | 3/4" | 3/4" | 3/4" | 1-1/4" | 3/4" | 3/4" | 3/4" | 3/4" | 3/4" | 3/4" | 3/4" | 2" | 3/4" | 3/4" | 3/4" | 3/4" | 3/4" | 3/4" | 3/4" | 3/4" | 3/4" | 2" | 2" | 2" | 3/4" | 3/4" | 3/4" |
| | FUSE DISC. SW. | -- | 60 | -- | 60 | -- | 60 | -- | -- | -- | -- | -- | -- | -- | -- | 200 | -- | -- | -- | -- | -- | -- | -- | -- | -- | 200 | 200 | -- | -- | -- |
| | TYPE RKI FUSES | -- | 20 | -- | 35 | -- | 20 | -- | -- | -- | -- | -- | -- | -- | -- | 150 | -- | -- | -- | -- | -- | -- | -- | -- | -- | 150 | 150 | -- | -- | -- |
| | NON-FUSE SW. | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | NOTES | 2 | 1 | 2 | 1 | 2 | 1 | 6 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 1 | 2 | 4 | 4 | 4 | 2 | 4 | 4 | 4 | 4 | 2 | 1 | 1 | 2 | 2 | 2 |

NOTES:
1. STARTER IS FURNISHED WITH THE UNIT. PROVIDE SITE DISCONNECT.
2. PROVIDE THERMAL OVERLOAD SWITCH. VERIFY VOLTAGE.
3. PROVIDE COMBINATION STARTER & DISCONNECT (HOA) W/ (2) N.O. & N.C. CONTACTS.
4. UNIT FURNISHED WITH VFD. PROVIDE SITE FUSED DISCONNECT WITH ELECTRICAL INTERLOCK.
5. TIE-INTO FIRE ALARM SYSTEM FOR AUTOMATIC OPERATION.
6. UNIT FURNISHED WITH FUSED DISCONNECT.


VCBO
ARCHITECTURE
VALENTINER
CRANE
BRUNJES
ONYON

VCBO ARCHITECTURE
524 SOUTH 600 EAST
SALT LAKE CITY, UT 84102
Phone: (801) 575-8800
Fax: (801) 531-9850
WWW: www.vcbo.com


DFCM CODE COMPLIANCE STAMP

# Stromberg Student Activity Center

Stromberg Addition - BID SET
Weber State University
3750 Harrison Blvd. Ogden, UT 84408

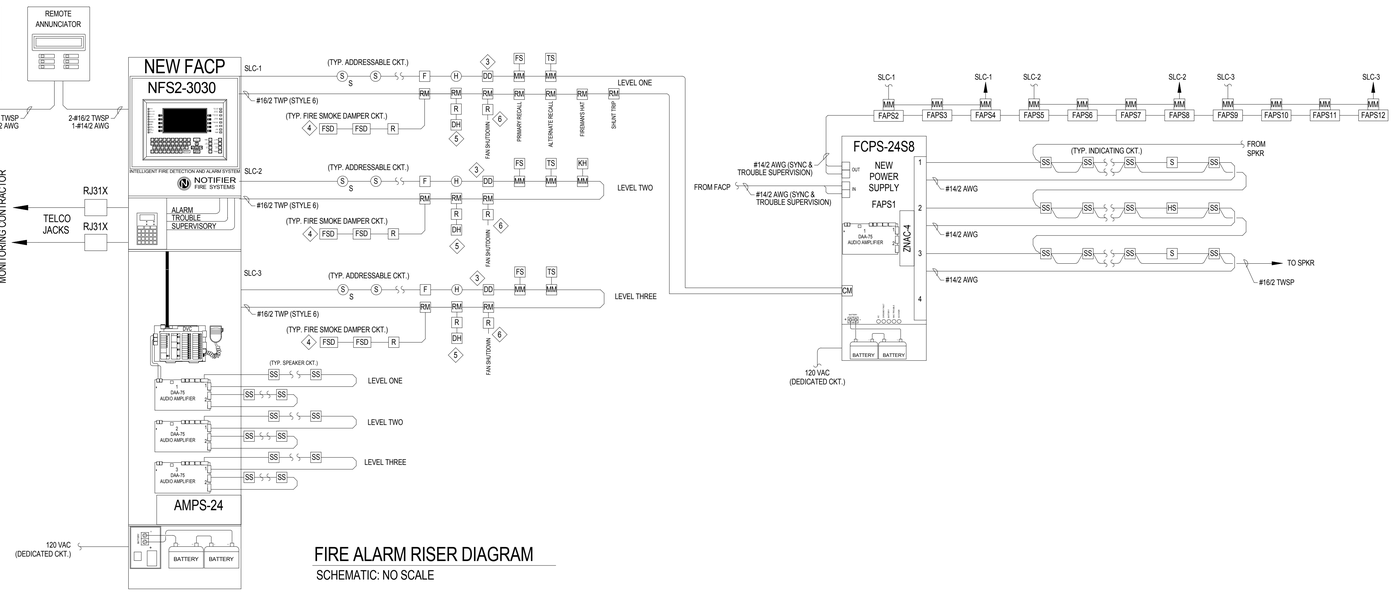
Rev # | Date | Description

Job # 4317
CAD File
Drawn PB | Checked AM
Date 10.03.2012
Owner #

PANEL SCHEDULES

EE-006

10/3/2012 8:49:47 AM




## FIRE ALARM RISER DIAGRAM

SCHEMATIC: NO SCALE


VCBO
ARCHITECTURE
VALENTINER
CRANE
BRUNJES
ONYON

#172577
10-03-12

VCBO ARCHITECTURE
524 SOUTH 600 EAST
SALT LAKE CITY, UT 84102
Phone: (801) 575-8800
Fax: (801) 531-9850
WWW: www.vcbo.com


DFCM CODE COMPLIANCE STAMP

# Stromberg Student Activity Center

## Stromberg Addition - BID SET

Weber State University
3750 Harrison Blvd. Ogden, UT 84408

| Rev # | Date | Description |
|---|---|---|

Job # 4317
CAD File
Drawn PB Checked AM
Date 10.03.2012
Owner #

FIRE ALARM RISER DIAGRAM & SCHEDULES

EE-007

10/3/2012 8:49:47 AM

## REFERENCE NOTES:

1. REMOVE EXISTING POLE LIGHT FIXTURE, ASSOCIATED CONDUIT AND CONDUCTORS ALL THE WAY BACK TO THE EXISTING PULL BOX. UTILIZE ONE OF THE POLE IN NEW LOCATION SHOWN ON SHEET ES-101.
2. EXISTING LIGHT POLES ARE TO REMAIN.
3. REMOVE EXISTING HOMERUNS, ASSOCIATED CONDUIT AND CONDUCTORS. EXTEND EXISTING CIRCUITS TO NEW PANEL IN NEW ADDITION THROUGH NEW TIME CLOCK. PROVIDE NEW CONDUIT AND CONDUCTORS FOR A COMPLETE INSTALLATION.
4. REMOVE EXISTING PULL BOX, ASSOCIATED CONDUIT AND CONDUCTORS. EXTEND EXISTING CIRCUIT TO NEW PANEL IN NEW ADDITION.
5. REROUTE EXISTING COMMUNICATION LINE AROUND NEW ADDITION. REFER TO SHEET ES-101 FOR NEW LOCATION. COORDINATE THIS WORK WITH WSU NETWORK GROUP PRIOR TO DOING ANY WORK.

EXISTING CONNECTION PLAZA & BUILDING

EXISTING STROMBERG ATHLETIC COMPLEX

UGT

EXISTING IN GROUND PULL BOX

NORTH

1 DEMOLITION SITE PLAN - ELECTRICAL
1/16" = 1'-0"


VCBO
ARCHITECTURE
VALENTINER
CRANE
BRUNJES
ONYON

#172577
10-03-12

VCBO ARCHITECTURE
524 SOUTH 600 EAST
SALT LAKE CITY, UT 84102
Phone: (801) 575-8800
Fax: (801) 531-9850
WWW: www.vcbo.com


DFCM CODE COMPLIANCE STAMP

# Stromberg Student Activity Center

## Stromberg Addition - BID SET

Weber State University
3750 Harrison Blvd. Ogden, UT 84408

| Rev # | Date | Description |
|---|---|---|

Job # 4317
CAD File
Drawn PB Checked AM
Date 10.03.2012
Owner #

DEMOLITION SITE PLAN - ELECTRICAL

EDS-101

10/3/2012 8:49:45 AM

LEVEL 01 DEMOLITION FLOOR PLAN
AREA A - ELECTRICAL
1/8" = 1'-0"

## GENERAL DEMOLITION NOTES:

1. UNDER DEMOLITION THE INTENT OF ELECTRICAL WORK IS TO REMOVE ALL ELECTRICAL DEVICES, LIGHT FIXTURES, CONDUIT, CONDUCTORS, J-BOXES, FIRE ALARM DEVICES, CAMERAS, BELLS, SPEAKERS, PANELBOARD, VOICE/DATA CABLING, VOICE/DATA OUTLETS, ETC. UNLESS INDICATED OTHERWISE. CONDUITS AND J-BOXES IN CONCRETE, MASONRY, AND BLOCK WALLS CAN BE LEFT IN THE WALLS AND REUSED FOR NEW DEVICES AS POSSIBLE. ALL ELECTRICAL EQUIPMENT INCLUDING LIGHT FIXTURES, PANELBOARDS, ETC., WILL BE NEW. BUILDING SHALL BE STRIPPED OF ALL MATERIALS.
2. ALL MATERIAL MUST BE REMOVED AND DISPOSED OF BY DEMOLITION CONTRACTOR, UNLESS INDICATED OTHERWISE ON DEMOLITION PLANS.
3. EXISTING DEMOLITION MATERIALS CAN NOT BE REUSED UNLESS INDICATED OTHERWISE.
4. ELECTRICAL CONTRACTOR IS TO PROVIDE TEMPORARY LIGHTING AND POWER FOR OTHER TRADES DURING DEMOLITION WORK. COORDINATE THIS WORK WITH THE GENERAL CONTRACTOR.
5. DEMOLITION CONTRACTOR IS TO REMOVE ALL ELECTRICAL CONNECTIONS AND CONTROL WIRING TO ALL THE EXISTING MECHANICAL EQUIPMENT IN THE REMODEL AREA, ETC. AS INDICATED. REMOVE ALL CONDUIT AND CONDUCTORS ALL THE WAY BACK TO PANELBOARDS. COORDINATE THIS WORK WITH MECHANICAL CONTRACTOR.
6. ALL MATERIALS TO BE REMOVED FROM THE PREMISES BY THE DEMOLITION CONTRACTOR.
7. PRIOR TO SUBMITTING A BID THE DEMOLITION CONTRACTOR SHALL INSPECT THE SITE AND INCLUDED IN HIS BID PACKAGE ALL CHARGES DUE TO EXISTING CONDITIONS.
8. ANY DAMAGE DONE TO EXISTING EQUIPMENT WHICH IS TO REMAIN WILL BE DEMOLITION CONTRACTOR RESPONSIBILITY TO REPLACE THEM WITH NEW ONES.

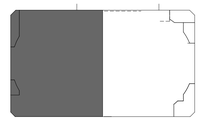
## SPECIAL NOTE:

1. CONTRACTOR MUST REFER TO MECHANICAL DEMOLITION WORK FOR ADDITIONAL ELECTRICAL WORK REQUIRED FOR MECHANICAL EQUIPMENTS.

## REFERENCE NOTES:

1 EXISTING DEVICES ARE TO REMAIN. MAKE ANY MODIFICATIONS REQUIRED TO MAINTAIN CIRCUIT INTEGRITY TO THESE DEVICES. PROVIDE CONDUIT AND CONDUCTORS AS NEEDED.
2 REMOVE EXISTING LIGHT FIXTURES, LIGHT SWITCHES, OCCUPANCY SENSORS, EXIT SIGNS, AND ASSOCIATED CONDUIT AND CONDUCTORS ALL THE WAY BACK TO PANELBOARD WHETHER OR NOT SHOWN ON THE PLANS UNLESS INDICATED OTHERWISE. UTILIZE EXISTING HOME RUNS AS POSSIBLE FOR NEW LIGHT FIXTURES.
3 EXISTING LIGHT FIXTURES AND SWITCHES ARE TO REMAIN. MAKE ANY MODIFICATIONS REQUIRED TO MAINTAIN CIRCUIT INTEGRITY TO THESE DEVICES.
4 EXISTING FIRE ALARM DEVICES ARE TO REMAIN. MAINTAIN CIRCUIT INTEGRITY TO THESE DEVICES. PROVIDE CONDUIT AND CONDUCTORS AS NEEDED.
5 EXISTING ELECTRICAL PANELBOARDS ARE TO REMAIN. PRIMARY AND SECONDARY POWER TO THESE PANELBOARDS NEED TO BE REROUTED TO NEW LOCATION OF THE STEP DOWN TRANSFORMER.
6 EXISTING CLOCK IS TO REMAIN. MAKE ANY MODIFICATIONS REQUIRED TO MAINTAIN CIRCUIT INTEGRITY.
7 EXISTING MICROPHONE IS TO REMAIN. MAKE ANY MODIFICATIONS REQUIRED TO MAINTAIN CIRCUIT INTEGRITY.
8 REMOVE EXISTING ELECTRICAL DEVICES AND ASSOCIATED CONDUIT AND CONDUCTORS ALL THE WAY BACK TO PANELBOARD.
9 REMOVE EXISTING PANELBOARD, ASSOCIATED CONDUIT, CONDUCTORS, FEEDERS, BRANCH CIRCUITS, ETC. ALL THE WAY BACK TO ORIGINATION POINT.

KEY PLAN



VCBO
ARCHITECTURE
VALENTINER
CRANE
BRUNJES
ONYON

#172577
10-03-12

VCBO ARCHITECTURE
524 SOUTH 600 EAST
SALT LAKE CITY, UT 84102
Phone: (801) 575-8800
Fax: (801) 531-9850
WWW: www.vcbo.com

DFCM CODE COMPLIANCE STAMP

# Stromberg Student Activity Center

## Stromberg Addition - BID SET

Weber State University
3750 Harrison Blvd. Ogden, UT 84408

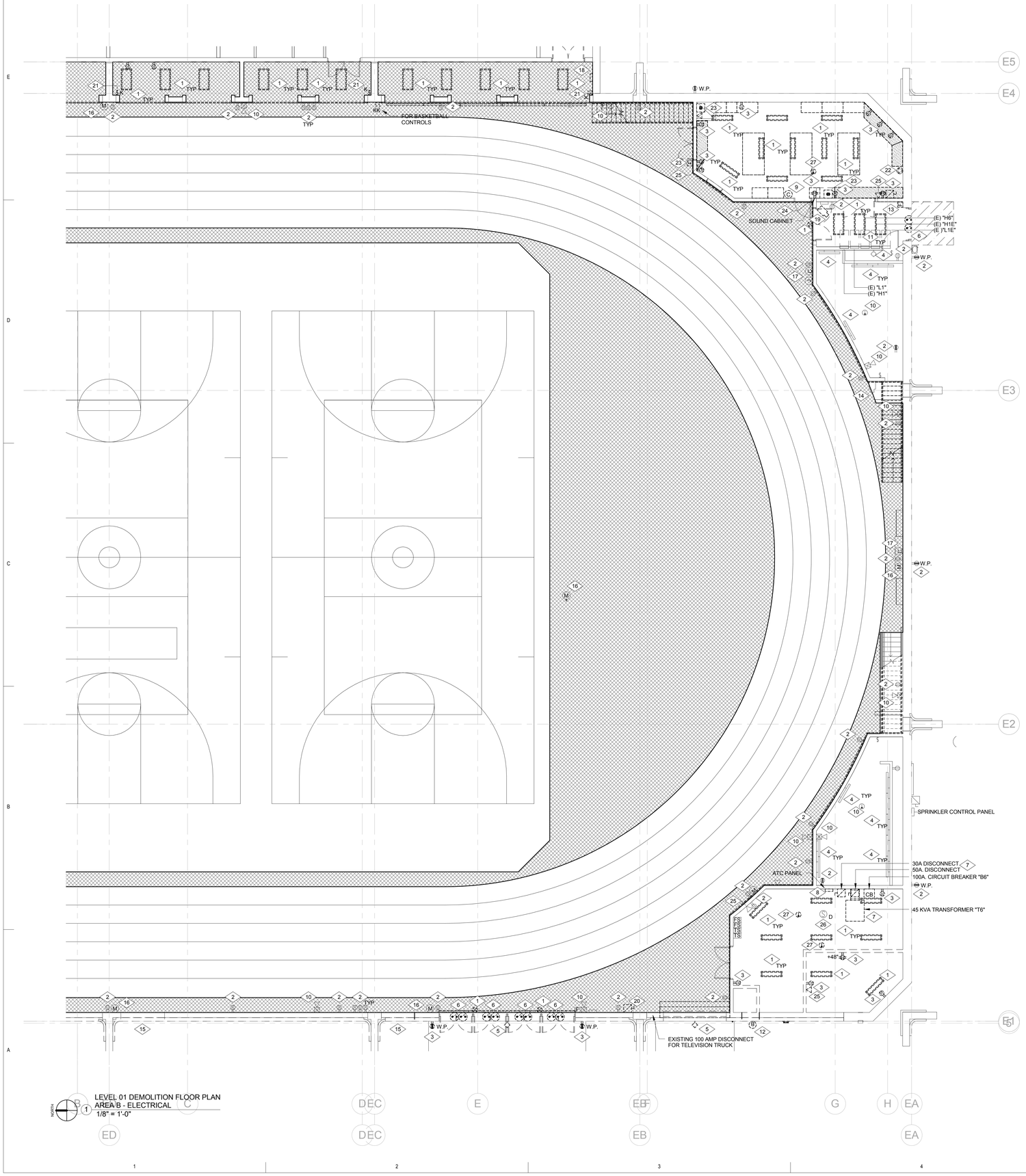
| Rev # | Date | Description |
|---|---|---|

Job # 4317
CAD File
Drawn PB Checked AM
Date 10.03.2012
Owner #

LEVEL 01 DEMOLITION FLOOR PLAN AREA A - ELECTRICAL

ED-101A

10/3/2012 8:49:39 AM




LEVEL 01 DEMOLITION FLOOR PLAN
AREA B - ELECTRICAL
1/8" = 1'-0"

## GENERAL DEMOLITION NOTES:

1. UNDER DEMOLITION THE INTENT OF ELECTRICAL WORK IS TO REMOVE ALL ELECTRICAL DEVICES, LIGHT FIXTURES, CONDUIT, CONDUCTORS, J-BOXES, FIRE ALARM DEVICES, CAMERAS, BELLS, SPEAKERS, PANELBOARD, VOICE/DATA CABLING, VOICE/DATA OUTLETS, ETC. UNLESS INDICATED OTHERWISE. CONDUITS AND J-BOXES IN CONCRETE, MASONRY, AND BLOCK WALLS CAN BE LEFT IN THE WALLS AND REUSED FOR NEW DEVICES AS POSSIBLE. ALL ELECTRICAL EQUIPMENT INCLUDING LIGHT FIXTURES, PANELBOARDS, ETC., WILL BE NEW. BUILDING SHALL BE STRIPPED OF ALL MATERIALS.
2. ALL MATERIAL MUST BE REMOVED AND DISPOSED OF BY DEMOLITION CONTRACTOR, UNLESS INDICATED OTHERWISE ON DEMOLITION PLANS.
3. EXISTING DEMOLITION MATERIALS CAN NOT BE REUSED UNLESS INDICATED OTHERWISE.
4. ELECTRICAL CONTRACTOR IS TO PROVIDE TEMPORARY LIGHTING AND POWER FOR OTHER TRADES DURING DEMOLITION WORK. COORDINATE THIS WORK WITH THE GENERAL CONTRACTOR.
5. DEMOLITION CONTRACTOR IS TO REMOVE ALL ELECTRICAL CONNECTIONS AND CONTROL WIRING TO ALL THE EXISTING MECHANICAL EQUIPMENT IN THE REMODEL AREA, ETC. AS INDICATED. REMOVE ALL CONDUIT AND CONDUCTORS ALL THE WAY BACK TO PANELBOARDS. COORDINATE THIS WORK WITH MECHANICAL CONTRACTOR.
6. ALL MATERIALS TO BE REMOVED FROM THE PREMISES BY THE DEMOLITION CONTRACTOR.
7. PRIOR TO SUBMITTING A BID THE DEMOLITION CONTRACTOR SHALL INSPECT THE SITE AND INCLUDED IN HIS BID PACKAGE ALL CHARGES DUE TO EXISTING CONDITIONS.
8. ANY DAMAGE DONE TO EXISTING EQUIPMENT WHICH IS TO REMAIN WILL BE DEMOLITION CONTRACTOR RESPONSIBILITY TO REPLACE THEM WITH NEW ONES.

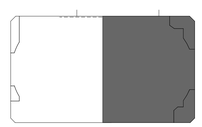
## SPECIAL NOTE:

1. CONTRACTOR MUST REFER TO MECHANICAL DEMOLITION WORK FOR ADDITIONAL ELECTRICAL WORK REQUIRED FOR MECHANICAL EQUIPMENTS.

## REFERENCE NOTES:

1. REMOVE EXISTING LIGHT FIXTURES, LIGHT SWITCHES, OCCUPANCY SENSORS, EXIT SIGNS, AND ASSOCIATED CONDUIT AND CONDUCTORS ALL THE WAY BACK TO PANELBOARD WHETHER OR NOT SHOWN ON THE PLANS UNLESS INDICATED OTHERWISE. UTILIZE EXISTING HOME RUNS AS POSSIBLE FOR NEW LIGHT FIXTURES.
2. EXISTING DEVICES ARE TO REMAIN. MAKE ANY MODIFICATIONS REQUIRED TO MAINTAIN CIRCUIT INTEGRITY TO THESE DEVICES. PROVIDE CONDUIT AND CONDUCTORS AS NEEDED.
3. REMOVE EXISTING ELECTRICAL DEVICES AND ASSOCIATED CONDUIT AND CONDUCTORS ALL THE WAY BACK TO PANELBOARD.
4. EXISTING LIGHT FIXTURES AND SWITCHES ARE TO REMAIN. MAKE ANY MODIFICATIONS REQUIRED TO MAINTAIN CIRCUIT INTEGRITY TO THESE DEVICES.
5. REMOVE EXISTING EXTERIOR LIGHT FIXTURES. MAINTAIN CIRCUIT INTEGRITY TO THE REST OF LIGHT FIXTURES WHICH ARE TO REMAIN. PROVIDE CONDUIT AND CONDUCTORS AS NEEDED.
6. REMOVE EXISTING SECURITY DOOR CONTACTS AND ASSOCIATED CONDUIT AND CONDUCTORS ALL THE WAY BACK TO THEIR ORIGINATION POINTS.
7. REMOVE EXISTING DISCONNECT, 100 AMP CIRCUIT BREAKER, 45 KVA STEP DOWN TRANSFORMER FOR TV TRUCK, AND ASSOCIATED CONDUIT AND CONDUCTORS ALL THE WAY TO THEIR ORIGINATION POINT (PANEL H6). DELIVER THE TRANSFORMER TO ELECTRICAL SHOP WAREHOUSE.
8. EXISTING ATC PANEL IS BEING RELOCATED BY MECHANICAL CONTRACTOR TO SECOND LEVEL STORAGE ROOM. REMOVE EXISTING 120 VOLT POWER AND ASSOCIATED CONDUIT AND CONDUCTORS. COORDINATE WITH MECHANICAL CONTRACTOR.
9. REMOVE EXISTING CLOCK AND ASSOCIATED CONDUIT AND CONDUCTORS ALL THE WAY BACK TO THEIR ORIGINATION POINT.
10. EXISTING FIRE ALARM DEVICES ARE TO REMAIN. MAINTAIN CIRCUIT INTEGRITY TO THESE DEVICES. PROVIDE CONDUIT AND CONDUCTORS AS NEEDED.
11. EXISTING ELECTRICAL PANELBOARDS ARE TO REMAIN. PRIMARY AND SECONDARY POWER TO THESE PANELBOARDS NEED TO BE REROUTED TO NEW LOCATION OF THE STEP DOWN TRANSFORMER.
12. EXISTING BELL IS BEING RELOCATED BY THE MECHANICAL CONTRACTOR.
13. REMOVE EXISTING FIRE ALARM PULL STATION. ASSOCIATED CONDUIT AND CONDUCTORS ALL THE WAY BACK TO ORIGINATION POINT.
14. EXISTING SECURITY CAMERA TO REMAIN. MAKE ANY MODIFICATIONS REQUIRED TO MAINTAIN CIRCUIT INTEGRITY.
15. EXISTING WALL IS BEING OPENED FOR NEW DOORS. REROUTE ANY EXISTING CONDUIT AND CONDUCTORS IN THIS WALL TO ALLOW INTALLATION OF NEW DOORS AND OPENINGS. COORDINATE WITH GENERAL CONTRACTOR.
16. EXISTING MICROPHONE IS TO REMAIN. MAKE ANY MODIFICATIONS REQUIRED TO MAINTAIN CIRCUIT INTEGRITY.
17. EXISTING CLOCK IS TO REMAIN. MAKE ANY MODIFICATIONS REQUIRED TO MAINTAIN CIRCUIT INTEGRITY.
18. REMOVE AND REPLACE EXISTING FIRE ALARM CONTROL PANEL. EXTEND ALL FIRE ALARM LOOPS, ASSOCIATED CONDUIT, CONDUCTORS, ETC. TO NEW LOCATION FIRE ALARM CONTROL PANEL SHOWN ON SHEET EP-101B.
19. REMOVE EXISTING CAMERA ASSOCIATED CONDUIT AND CONDUCTORS ALL THE WAY BACK TO ORIGINATION POINTS.
20. REMOVE EXISTING 100 AMP DISCONNECT ASSOCIATED CONDUIT AND CONDUCTORS ALL THE WAY BACK TO ITS ORIGINATION POINT.
21. REMOVE EXISTING KEY SWITCHES ASSOCIATED CONDUIT AND CONDUCTORS.
22. EXISTING WALL IS BEING FURRED OUT. PROVIDE EXTENTION BOX AS NEEDED TO INSTALL THE EXISTING OUTLET IN NEW WALL. COORDINATE WITH GENERAL CONTRACTOR.
23. REMOVE EXISTING PUSH BUTTON, ASSOCIATED CONDUIT AND CONDUCTORS ALL THE WAY BACK TO THE ORIGINATION POINTS. REMOVE DOOR HOLDERS, ETC. REMOVE ANY CONDUIT AND CONDUCTORS IN THE WALL WHICH IS BEING DEMOLISHED.
24. REMOVE AND RELOCATE EXISTING SOUND CABINET ASSOCIATED CONDUIT AND CONDUCTORS. EXTEND EXISTING CONDUIT AND CONDUCTORS TO NEW LOCATION. FIELD VERIFY WORK INVOLVED. REFER TO SHEET EP-101B FOR NEW LOCATION.
25. REMOVE EXISTING V/D OUTLET ASSOCIATED CONDUIT AND CONDUCTORS ALL THE WAY BACK TO THEIR ORIGINATION POINTS.
26. EXISTING DUCT DETECTORS ARE TO REMAIN. MAINTAIN CIRCUIT INTEGRITY.
27. REMOVE EXISTING FIRE ALARM DEVICES, ASSOCIATED CONDUIT AND CONDUCTORS. MAINTAIN CIRCUIT INTEGRITY TO DEVICES WHICH ARE TO REMAIN.

KEY PLAN



VCBO ARCHITECTURE
VALENTINER CRANE BRUNJES ONYON

#172577
10-03-12

VCBO ARCHITECTURE
524 SOUTH 600 EAST
SALT LAKE CITY, UT 84102
Phone: (801) 575-8800
Fax: (801) 531-9850
www: www.vcbo.com

DFCM CODE COMPLIANCE STAMP

# Stromberg Student Activity Center

## Stromberg Addition - BID SET

Weber State University
3750 Harrison Blvd. Ogden, UT 84408

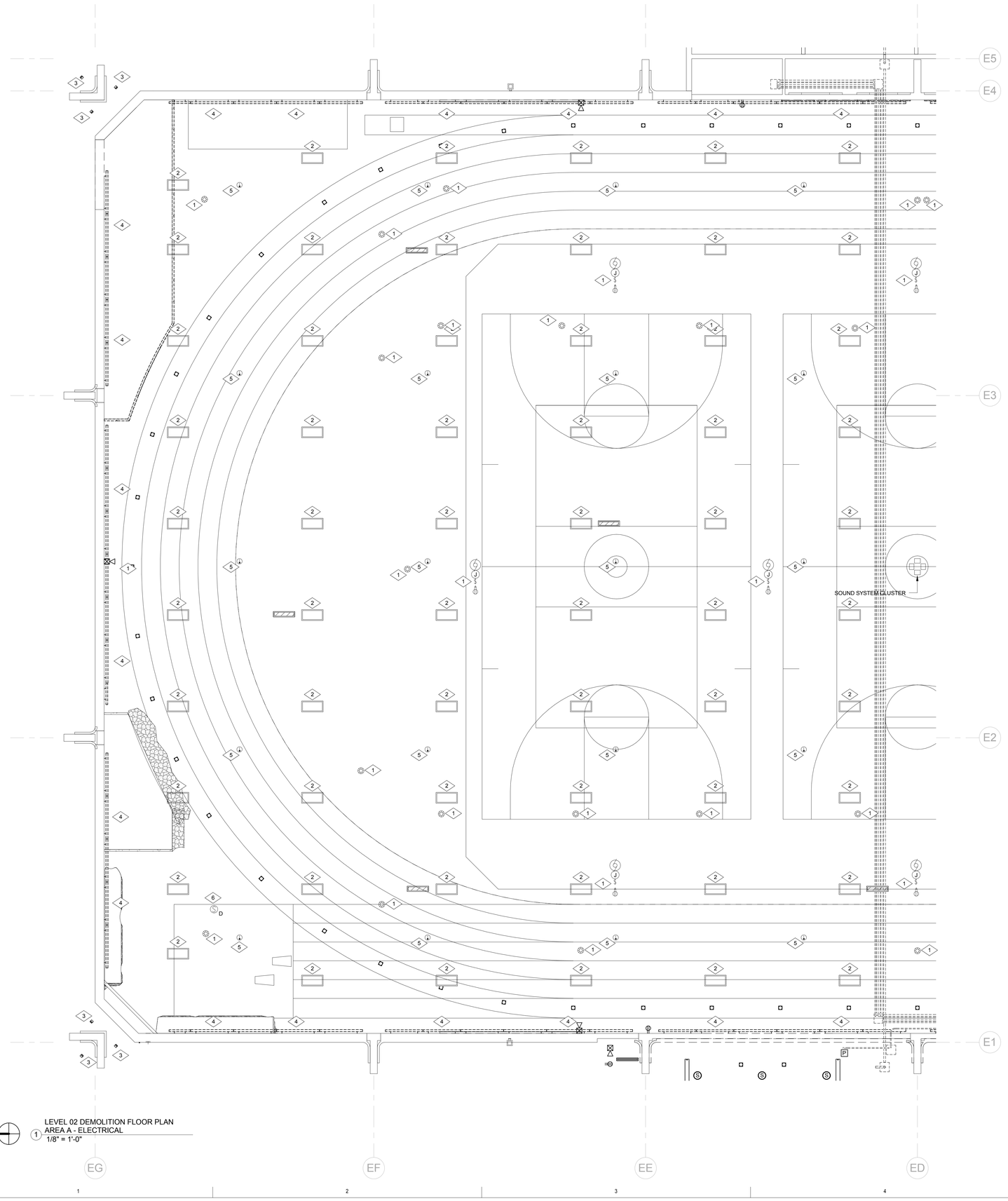
| Rev # | Date | Description |
|---|---|---|

Job # 4317
CAD File
Drawn PB Checked AM
Date 10.03.2012
Owner #

LEVEL 01 DEMOLITION FLOOR PLAN AREA B - ELECTRICAL

ED-101B

10/3/2012 8:49:41 AM




LEVEL 02 DEMOLITION FLOOR PLAN
AREA A - ELECTRICAL
1/8" = 1'-0"

## GENERAL DEMOLITION NOTES:

1. UNDER DEMOLITION THE INTENT OF ELECTRICAL WORK IS TO REMOVE ALL ELECTRICAL DEVICES, LIGHT FIXTURES, CONDUIT, CONDUCTORS, J-BOXES, FIRE ALARM DEVICES, CAMERAS, BELLS, SPEAKERS, PANELBOARD, VOICE/DATA CABLING, VOICE/DATA OUTLETS, ETC. UNLESS INDICATED OTHERWISE. CONDUITS AND J-BOXES IN CONCRETE, MASONRY, AND BLOCK WALLS CAN BE LEFT IN THE WALLS AND REUSED FOR NEW DEVICES AS POSSIBLE. ALL ELECTRICAL EQUIPMENT INCLUDING LIGHT FIXTURES, PANELBOARDS, ETC., WILL BE NEW. BUILDING SHALL BE STRIPPED OF ALL MATERIALS.
2. ALL MATERIAL MUST BE REMOVED AND DISPOSED OF BY DEMOLITION CONTRACTOR, UNLESS INDICATED OTHERWISE ON DEMOLITION PLANS.
3. EXISTING DEMOLITION MATERIALS CAN NOT BE REUSED UNLESS INDICATED OTHERWISE.
4. ELECTRICAL CONTRACTOR IS TO PROVIDE TEMPORARY LIGHTING AND POWER FOR OTHER TRADES DURING DEMOLITION WORK. COORDINATE THIS WORK WITH THE GENERAL CONTRACTOR.
5. DEMOLITION CONTRACTOR IS TO REMOVE ALL ELECTRICAL CONNECTIONS AND CONTROL WIRING TO ALL THE EXISTING MECHANICAL EQUIPMENT IN THE REMODEL AREA, ETC. AS INDICATED. REMOVE ALL CONDUIT AND CONDUCTORS ALL THE WAY BACK TO PANELBOARDS. COORDINATE THIS WORK WITH MECHANICAL CONTRACTOR.
6. ALL MATERIALS TO BE REMOVED FROM THE PREMISES BY THE DEMOLITION CONTRACTOR.
7. PRIOR TO SUBMITTING A BID THE DEMOLITION CONTRACTOR SHALL INSPECT THE SITE AND INCLUDED IN HIS BID PACKAGE ALL CHARGES DUE TO EXISTING CONDITIONS.
8. ANY DAMAGE DONE TO EXISTING EQUIPMENT WHICH IS TO REMAIN WILL BE DEMOLITION CONTRACTOR RESPONSIBILITY TO REPLACE THEM WITH NEW ONES.

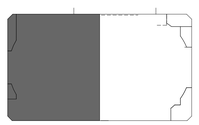
## SPECIAL NOTE:

1. CONTRACTOR MUST REFER TO MECHANICAL DEMOLITION WORK FOR ADDITIONAL ELECTRICAL WORK REQUIRED FOR MECHANICAL EQUIPMENTS.

## REFERENCE NOTES:

| | |
|---|---|
| 1 | EXISTING DEVICES ARE TO REMAIN. MAKE ANY MODIFICATIONS REQUIRED TO MAINTAIN CIRCUIT INTEGRITY TO THESE DEVICES. PROVIDE CONDUIT AND CONDUCTORS AS NEEDED. |
| 2 | EXISTING HIGH BAY LIGHT FIXTURE ARE TO REMAIN. MAKE ANY MODIFICATIONS REQUIRED TO MAINTAIN CIRCUIT INTEGRITY. |
| 3 | EXISTING UNDER CANOPY LIGHT FIXTURES ARE TO REMAIN. MAKE ANY MODIFICATIONS REQUIRED TO MAINTAIN CIRCUIT INTEGRITY. |
| 4 | REMOVE EXISTING LIGHT FIXTURES, LIGHT SWITCHES, OCCUPANCY SENSORS, EXIT SIGNS, AND ASSOCIATED CONDUIT AND CONDUCTORS ALL THE WAY BACK TO PANELBOARD WHETHER OR NOT SHOWN ON THE PLANS UNLESS INDICATED OTHERWISE. UTILIZE EXISTING HOME RUNS AS POSSIBLE FOR NEW LIGHT FIXTURES. |
| 5 | EXISTING FIRE ALARM DEVICES ARE TO REMAIN. MAINTAIN CIRCUIT INTEGRITY TO THESE DEVICES. PROVIDE CONDUIT AND CONDUCTORS AS NEEDED. |
| 6 | EXISTING DUCT DETECTORS ARE TO REMAIN. MAINTAIN CIRCUIT INTEGRITY. |

KEY PLAN



VCBO
ARCHITECTURE
VALENTINER
CRANE
BRUNJES
ONYON

#172577
10-03-12
STATE OF UTAH

VCBO ARCHITECTURE
524 SOUTH 600 EAST
SALT LAKE CITY, UT 84102
Phone: (801) 575-8800
Fax: (801) 531-9850
WWW: www.vcbo.com

DFCM CODE COMPLIANCE STAMP

# Stromberg Student Activity Center

## Stromberg Addition - BID SET

Weber State University
3750 Harrison Blvd. Ogden, UT 84408

| Rev # | Date | Description |
|---|---|---|

Job # 4317
CAD File
Drawn PB Checked AM
Date 10.03.2012
Owner #

LEVEL 02 DEMOLITION FLOOR PLAN AREA A - ELECTRICAL

ED-102A

10/3/2012 8:49:42 AM

## GENERAL DEMOLITION NOTES:

1. UNDER DEMOLITION THE INTENT OF ELECTRICAL WORK IS TO REMOVE ALL ELECTRICAL DEVICES, LIGHT FIXTURES, CONDUIT, CONDUCTORS, J-BOXES, FIRE ALARM DEVICES, CAMERAS, BELLS, SPEAKERS, PANELBOARD, VOICE/DATA CABLING, VOICE/DATA OUTLETS, ETC. UNLESS INDICATED OTHERWISE. CONDUITS AND J-BOXES IN CONCRETE, MASONRY, AND BLOCK WALLS CAN BE LEFT IN THE WALLS AND REUSED FOR NEW DEVICES AS POSSIBLE. ALL ELECTRICAL EQUIPMENT INCLUDING LIGHT FIXTURES, PANELBOARDS, ETC., WILL BE NEW. BUILDING SHALL BE STRIPPED OF ALL MATERIALS.
2. ALL MATERIAL MUST BE REMOVED AND DISPOSED OF BY DEMOLITION CONTRACTOR, UNLESS INDICATED OTHERWISE ON DEMOLITION PLANS.
3. EXISTING DEMOLITION MATERIALS CAN NOT BE REUSED UNLESS INDICATED OTHERWISE.
4. ELECTRICAL CONTRACTOR IS TO PROVIDE TEMPORARY LIGHTING AND POWER FOR OTHER TRADES DURING DEMOLITION WORK. COORDINATE THIS WORK WITH THE GENERAL CONTRACTOR.
5. DEMOLITION CONTRACTOR IS TO REMOVE ALL ELECTRICAL CONNECTIONS AND CONTROL WIRING TO ALL THE EXISTING MECHANICAL EQUIPMENT IN THE REMODEL AREA, ETC. AS INDICATED. REMOVE ALL CONDUIT AND CONDUCTORS ALL THE WAY BACK TO PANELBOARDS. COORDINATE THIS WORK WITH MECHANICAL CONTRACTOR.
6. ALL MATERIALS TO BE REMOVED FROM THE PREMISES BY THE DEMOLITION CONTRACTOR.
7. PRIOR TO SUBMITTING A BID THE DEMOLITION CONTRACTOR SHALL INSPECT THE SITE AND INCLUDED IN HIS BID PACKAGE ALL CHARGES DUE TO EXISTING CONDITIONS.
8. ANY DAMAGE DONE TO EXISTING EQUIPMENT WHICH IS TO REMAIN WILL BE DEMOLITION CONTRACTOR RESPONSIBILITY TO REPLACE THEM WITH NEW ONES.

## SPECIAL NOTE:

1. CONTRACTOR MUST REFER TO MECHANICAL DEMOLITION WORK FOR ADDITIONAL ELECTRICAL WORK REQUIRED FOR MECHANICAL EQUIPMENTS.

## REFERENCE NOTES:

1 EXISTING DEVICES ARE TO REMAIN. MAKE ANY MODIFICATIONS REQUIRED TO MAINTAIN CIRCUIT INTEGRITY TO THESE DEVICES. PROVIDE CONDUIT AND CONDUCTORS AS NEEDED.

2 EXISTING HIGH BAY LIGHT FIXTURE ARE TO REMAIN. MAKE ANY MODIFICATIONS REQUIRED TO MAINTAIN CIRCUIT INTEGRITY.

3 EXISTING UNDER CANOPY LIGHT FIXTURES ARE TO REMAIN. MAKE ANY MODIFICATIONS REQUIRED TO MAINTAIN CIRCUIT INTEGRITY.

4 REMOVE EXISTING LIGHT FIXTURES, LIGHT SWITCHES, OCCUPANCY SENSORS, EXIT SIGNS, AND ASSOCIATED CONDUIT AND CONDUCTORS ALL THE WAY BACK TO PANELBOARD WHETHER OR NOT SHOWN ON THE PLANS UNLESS INDICATED OTHERWISE. UTILIZE EXISTING HOME RUNS AS POSSIBLE FOR NEW LIGHT FIXTURES.

5 EXISTING FIRE ALARM DEVICES ARE TO REMAIN. MAINTAIN CIRCUIT INTEGRITY TO THESE DEVICES. PROVIDE CONDUIT AND CONDUCTORS AS NEEDED.

6 REMOVE EXISTING ELECTRICAL DEVICES AND ASSOCIATED CONDUIT AND CONDUCTORS ALL THE WAY BACK TO PANELBOARD.

7 RELOCATE EXISTING COMBINATION STARTER/DISCONNECTS TO NEW ELECTRICAL ROOM EAST OF THE EXISTING ARENA. REFER TO SHEET EP-101B. INTERCEPT EXISTING CONDUIT AND CONDUCTORS ABOVE CEILING PLENUM AND EXTEND CONDUIT AND CONDUCTORS TO THEIR NEW LOCATION FOR A COMPLETE INSTALLATION.

8 RELOCATE EXISTING 9 KVA STEP DOWN TRANSFORMER ABOVE CEILING OF 1ST LEVEL. ATTACH THE TRANSFORMER TO THE EXISTING WALL. RE-ROUTE PRIMARY AND SECONDARY FEEDER CONDUIT AND CONDUCTORS TO NEW LOCATION FOR A COMPLETE INSTALLATION. COORDINATE WITH GENERAL CONTRACTOR.

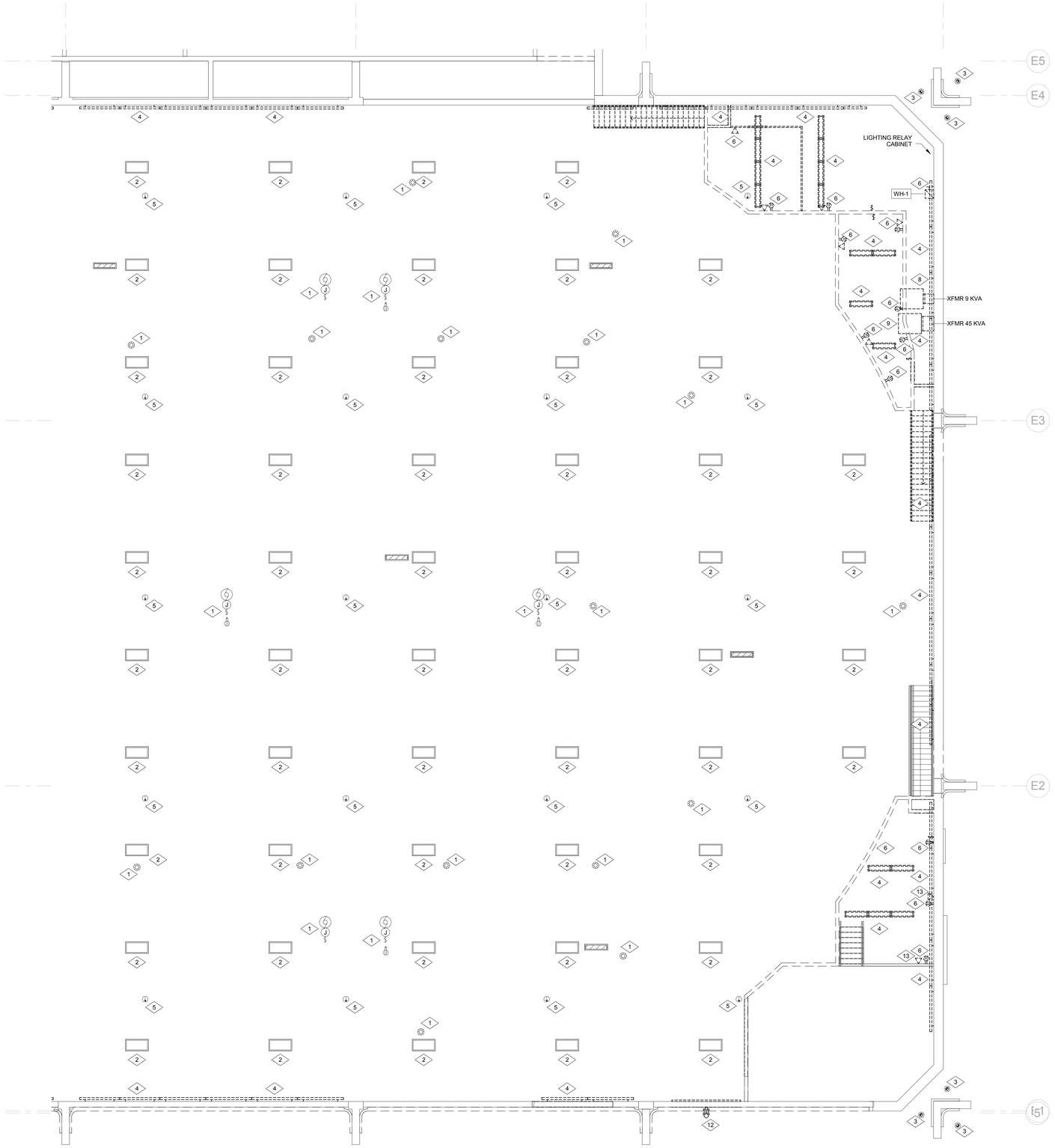
9 RELOCATE EXISTING 45 KVA TRANSFORMER NEXT TO THE AIR HANDLING UNIT ON THE 3RD LEVEL. REFER TO SHEET EP-103B FOR APPROXIMATE LOCATION. RUN NEW PRIMARY AND SECONDARY CONDUIT AND CONDUCTORS IN EXISTING PIPE SHAFT AND NEW WALLS. COORDINATE WITH GENERAL CONTRACTOR FOR EXACT ROUTING OF THE CONDUIT. REFER TO POWER SINGLE LINE DIAGRAM FOR MORE INFORMATION.

10 EXISTING ATC PANEL IS BEING RELOCATED TO THE NEW ELECTRICAL ROOM ON EAST SIDE OF THE EXISTING ARENA. EXTEND EXISTING 120 VOLT POWER TO NEW LOCATION. REFER TO SHEET EP-101B FOR NEW LOCATION. COORDINATE WITH MECHANICAL AND GENERAL CONTRACTOR. DO NOT RUN ANY NEW CONDUIT ON FINISHED WALLS.

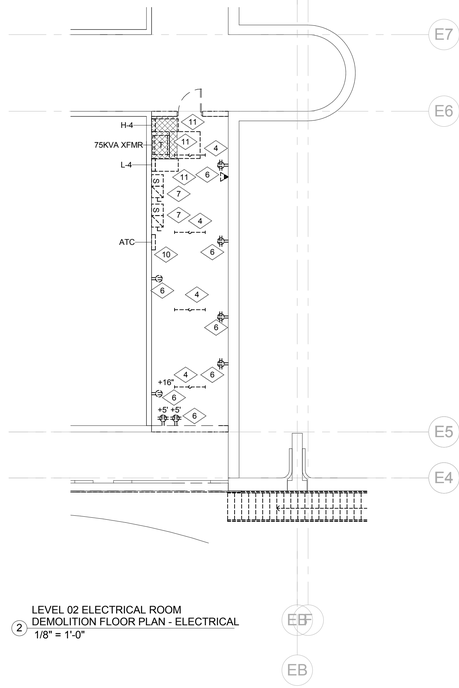
11 RELOCATE EXISTING PANEL "H4", "L4" AND 75 KVA STEP DOWN TRANSFORMER TO THE NEW ELECTRICAL ROOM ON EAST SIDE OF THE EXISTING ARENA. REFER TO SHEET EP-101B. INTERCEPT EXISTING FEEDER AND BRANCH CONDUIT AND CONDUCTORS IN CEILING PLENUM OF 1ST LEVEL AND 2ND LEVEL AND EXTEND THEM TO NEW LOCATIONS. DO NOT LEAVE ANY EXPOSED CONDUIT OR BOXES ON THE FINISHED WALLS. PROVIDE WIRING GUTTER, CONDUIT, CONDUCTORS, ETC. FOR A COMPLETE INSTALLATION. POWER OUTAGE MUST BE COORDINATED AHEAD OF TIME WITH WSU. COORDINATE WITH GENERAL CONTRACTOR.

12 REMOVE EXISTING EXTERIOR LIGHT FIXTURES. MAINTAIN CIRCUIT INTEGRITY TO THE REST OF LIGHT FIXTURES WHICH ARE TO REMAIN. PROVIDE CONDUIT AND CONDUCTORS AS NEEDED.

13 REMOVE EXISTING V/D OUTLET ASSOCIATED CONDUIT AND CONDUCTORS ALL THE WAY BACK TO THEIR ORIGINATION POINTS.

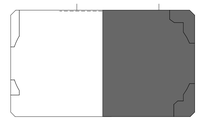



1 LEVEL 02 DEMOLITION FLOOR PLAN AREA B - ELECTRICAL
1/8" = 1'-0"




2 LEVEL 02 ELECTRICAL ROOM DEMOLITION FLOOR PLAN - ELECTRICAL
1/8" = 1'-0"

KEY PLAN



VCBO
ARCHITECTURE
VALENTINER
CRANE
BRUNJES
ONYON

#172577
10-03-12

VCBO ARCHITECTURE
524 SOUTH 600 EAST
SALT LAKE CITY, UT 84102
Phone: (801) 575-8800
Fax: (801) 531-9850
www: www.vcbo.com

DFCM CODE COMPLIANCE STAMP

# Stromberg Student Activity Center

## Stromberg Addition - BID SET

Weber State University
3750 Harrison Blvd. Ogden, UT 84408

| Rev # | Date | Description |
|---|---|---|

Job # 4317
CAD File
Drawn PB Checked AM
Date 10.03.2012
Owner #

LEVEL 02 DEMOLITION FLOOR PLAN AREA B - ELECTRICAL

ED-102B

10/3/2012 8:49:43 AM

## REFERENCE NOTES:

1. EXISTING LIGHT POLES ARE TO REMAIN.
2. CLEAN, RELAMP, AND INSTALL EXISTING LIGHT POLE ON A NEW CONCRETE POLE BASE IN APPROXIMATE LOCATION SHOWN. COORDINATE WITH GENERAL CONTRACTOR FOR EXACT LOCATION.
3. TIE EXTERIOR LIGHT POLES TO DESIGNATED CIRCUIT THROUGH NEW TIME CLOCK.
4. TIE EXISTING LIGHT POLES TO VIEW CIRCUIT AS SHOWN.

EXISTING CONNECTION PLAZA & BUILDING

EXISTING STROMBERG ATHLETIC COMPLEX

STROMBERG ATHLETIC COMPLEX ADDITION

EXISTING STROMBERG ATHLETIC COMPLEX DRIVE

EXISTING CHILLER BUILDING

ON

2#8 THHN
1#8 THHN GND
1-1/4" C.

H7- 15
2#8 THHN
1#8 THHN GND
1-1/4" C.

T-16

1 SITE PLAN - ELECTRICAL
1/16" = 1'-0"

NORTH


VCBO
ARCHITECTURE
VALENTINER
CRANE
BRUNJES
ONYON

#172577
10-03-12

VCBO ARCHITECTURE
524 SOUTH 600 EAST
SALT LAKE CITY, UT 84102
Phone: (801) 575-8800
Fax: (801) 531-9850
WWW: www.vcbo.com


DFCM CODE COMPLIANCE STAMP

# Stromberg Student Activity Center
## Stromberg Addition - BID SET
Weber State University
3750 Harrison Blvd. Ogden, UT 84408

| Rev # | Date | Description |
|---|---|---|

Job # 4317
CAD File
Drawn PB Checked AM
Date 10.03.2012
Owner #

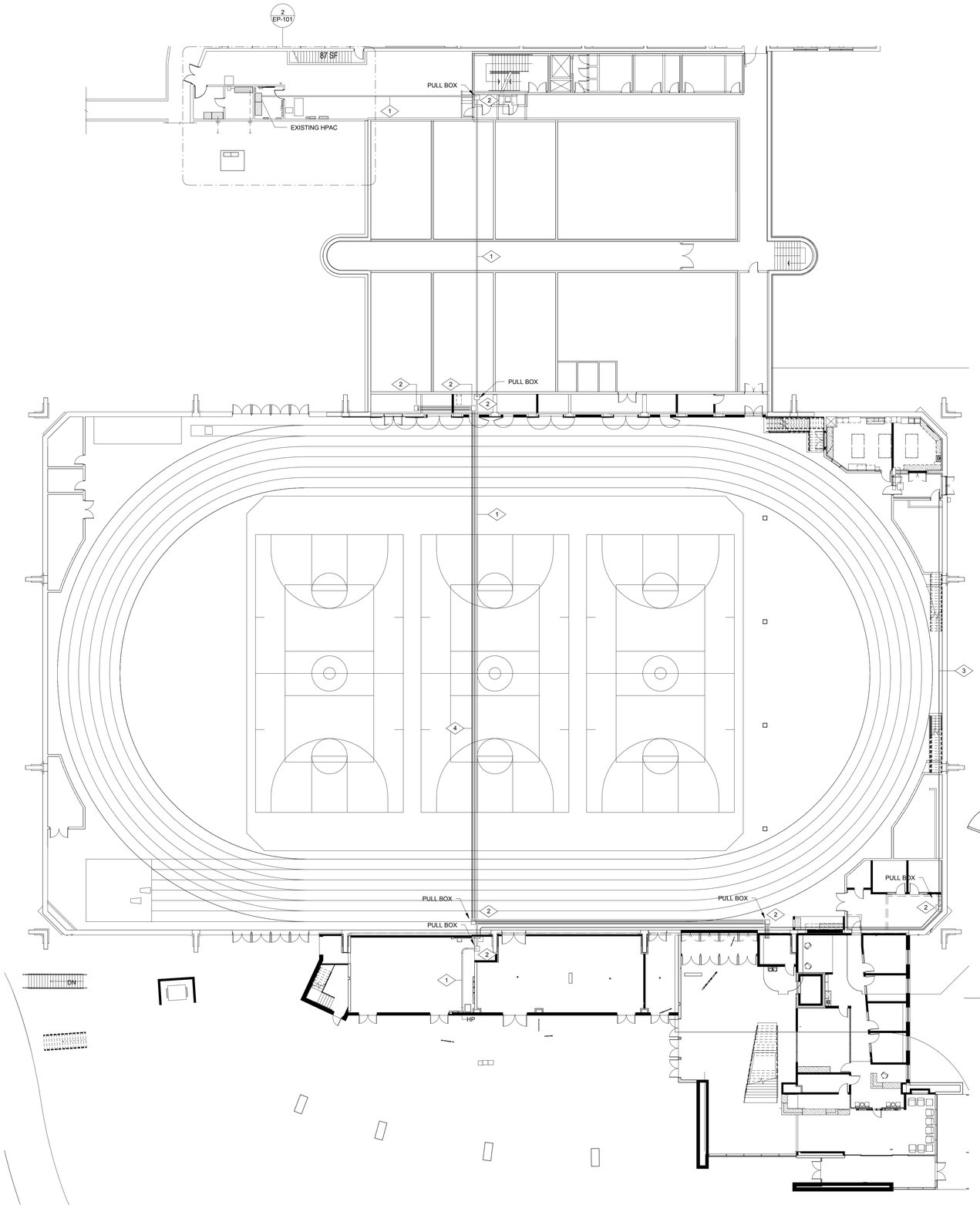
SITE PLAN - ELECTRICAL

ES-101

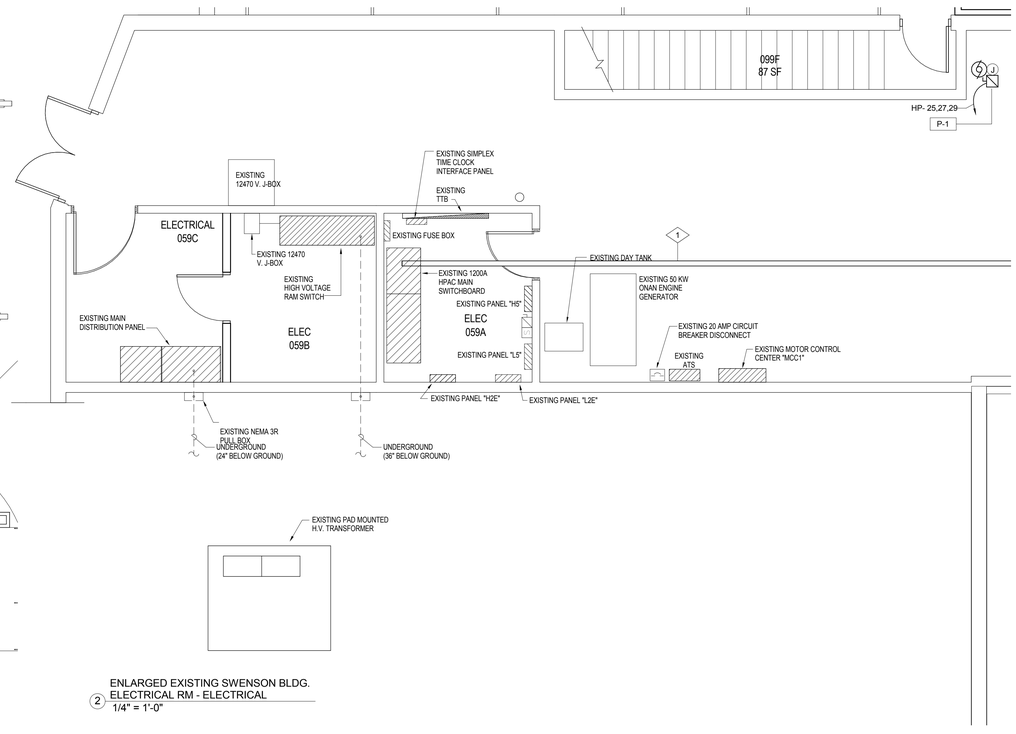
10/3/2012 8:50:42 AM

## REFERENCE NOTES:

1. RUN 3-1/2" CONDUIT FROM EXISTING SWITCHBOARD "HPAC" TO NEW PANEL "HP". FOLLOW ROUTING OF NEW MECHANICAL PIPING. SEE MECHANICAL SHEETS FOR ROUTING OF PIPING.
2. FURNISH AND INSTALL A NEW ELECTRICAL PULL BOX IN THE APPROXIMATE LOCATION SHOWN.
3. RUN 1-1/2" CONDUIT FROM EXISTING EMERGENCY PANEL "H1E" TO NEW EMERGENCY PANEL "H3E" AS SHOWN.
4. RUN (2) 4" CONDUITS AND (2) 2" CONDUITS FROM EXISTING COMMUNICATIONS ROOM TO NEW COMMUNICATIONS ROOM AS SHOWN.




1 LEVEL 01 OVERALL - ELECTRICAL
1/16" = 1'-0"




2 ENLARGED EXISTING SWENSON BLDG.
ELECTRICAL RM - ELECTRICAL
1/4" = 1'-0"


VCBO
ARCHITECTURE
VALENTINER
CRANE
BRUNJES
ONYON

VCBO ARCHITECTURE
524 SOUTH 600 EAST
SALT LAKE CITY, UT 84102
Phone: (801) 575-8800
Fax: (801) 531-9850
WWW: www.vcbo.com


DFCM CODE COMPLIANCE STAMP

# Stromberg Student Activity Center

## Stromberg Addition - BID SET

Weber State University
3750 Harrison Blvd. Ogden, UT 84408

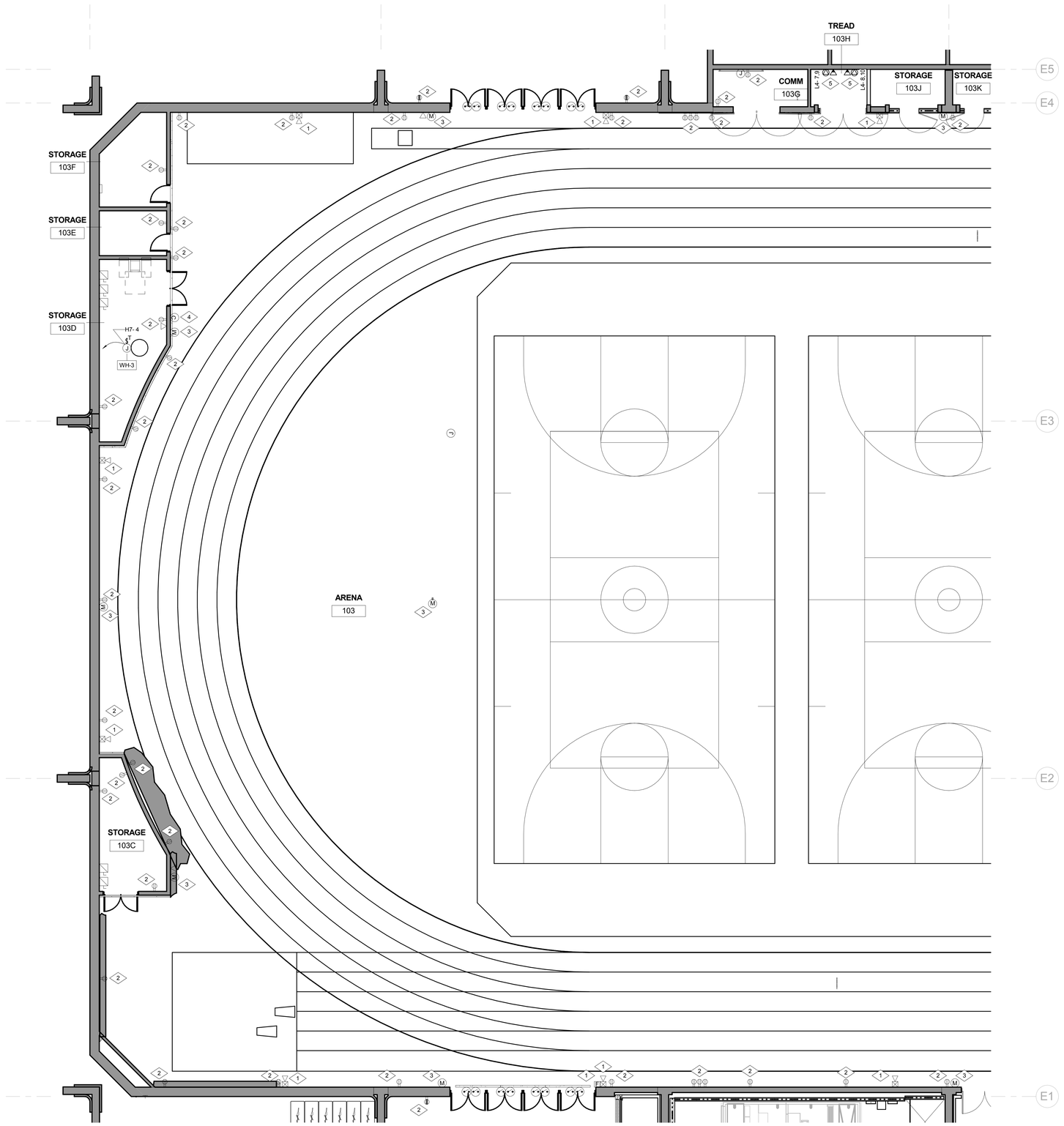
| Rev # | Date | Description |
|---|---|---|

Job # 4317
CAD File
Drawn PB Checked AM
Date 10.03.2012
Owner #

LEVEL 01 OVERALL - ELECTRICAL

EP-101

10/3/2012 8:50:08 AM



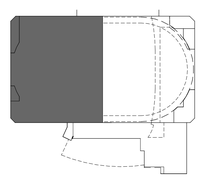

## REFERENCE NOTES:

1. EXISTING FIRE ALARM DEVICES ARE TO REMAIN. MAINTAIN CIRCUIT INTEGRITY TO THESE DEVICES. PROVIDE CONDUIT AND CONDUCTORS AS NEEDED.
2. EXISTING DEVICES ARE TO REMAIN. MAKE ANY MODIFICATIONS REQUIRED TO MAINTAIN CIRCUIT INTEGRITY TO THESE DEVICES. PROVIDE CONDUIT AND CONDUCTORS AS NEEDED.
3. EXISTING MICROPHONE IS TO TO REMAIN. MAKE ANY MODIFICATIONS REQUIRED TO MAINTAIN CIRCUIT INTEGRITY.
4. EXISTING CLOCK IS TO REMAIN. MAKE ANY MODIFICATIONS REQUIRED TO MAINTAIN CIRCUIT INTEGRITY.
5. FURNISH AND INSTALL A 4"X4"X2 1/8" DEEP BOX FOR VOICE/DATA JACKS IN THE APPROXIMATE LOCATION SHOWN. RUN TWO (2) 1" CONDUITS FROM THE J-BOX TO THE ACCESSIBLE CEILING SPACE. TURN CONDUIT 90 DEGREES AND PROVIDE A PLASTIC BUSHING. INSERT PULL STRING AND LABEL.

NORTH

1 LEVEL 01 FLOOR PLAN AREA A - ELECTRICAL
1/8" = 1'-0"

KEY PLAN



VCBO
ARCHITECTURE
VALENTINER
CRANE
BRUNJES
ONYON

#172577
10-03-12

VCBO ARCHITECTURE
524 SOUTH 600 EAST
SALT LAKE CITY, UT 84102
Phone: (801) 575-8800
Fax: (801) 531-9850
WWW: www.vcbo.com

DFCM CODE COMPLIANCE STAMP

# Stromberg Student Activity Center

## Stromberg Addition - BID SET

Weber State University
3750 Harrison Blvd. Ogden, UT 84408

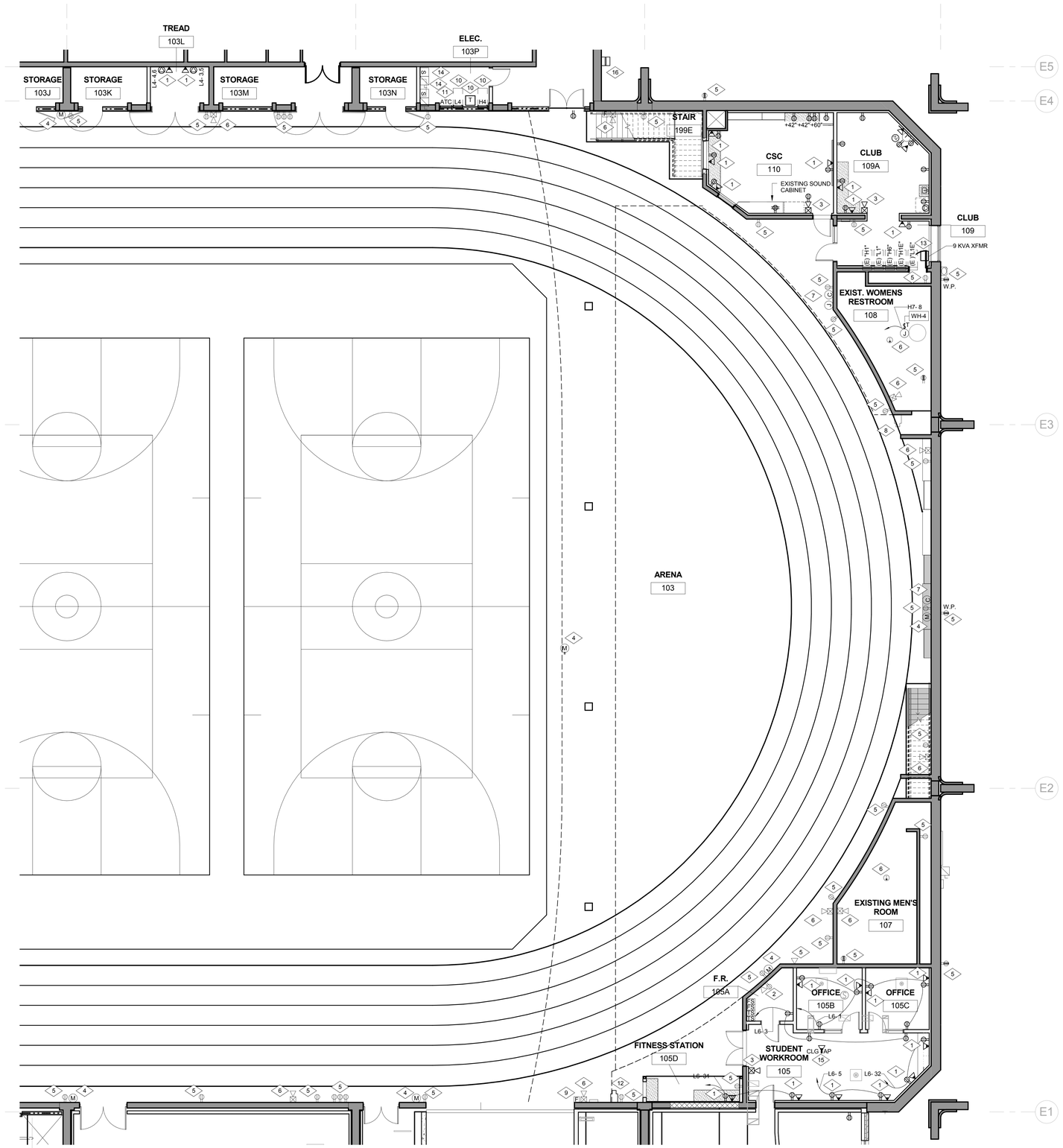
| Rev # | Date | Description |
|---|---|---|

Job # 4317
CAD File
Drawn PB Checked AM
Date 10.03.2012
Owner #

LEVEL 01 FLOOR PLAN
AREA A - ELECTRICAL

EP-101A

10/3/2012 8:50:09 AM

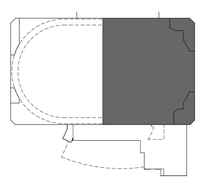



LEVEL 01 FLOOR PLAN AREA B - ELECTRICAL
1/8" = 1'-0"

## REFERENCE NOTES:

1. FURNISH AND INSTALL A 4"X4"X2 1/8" DEEP BOX FOR VOICE/DATA JACKS IN THE APPROXIMATE LOCATION SHOWN. RUN TWO (2) 1" CONDUITS FROM THE J-BOX TO THE ACCESSIBLE CEILING SPACE. TURN CONDUIT 90 DEGREES AND PROVIDE A PLASTIC BUSHING. INSERT PULL STRING AND LABEL.
2. TIE TAMPER AND FLOW SWITCH TO THE EXISTING FIRE ALARM CONTROL PANEL. PROVIDE MONITOR MODULES, RELAYS, ETC. AS REQUIRED.
3. FURNISH AND INSTALL NEW ADDRESSABLE FIRE ALARM DEVICES IN THE APPROXIMATE LOCATION SHOWN. TIE TO THE FIRE ALARM SYSTEM IN CLASS "A" LOOP. IN AND OUT CIRCUITS SHALL RUN IN SEPARATE CONDUITS. REFER TO THE FIRE ALARM RISER AND SPECIFICATIONS FOR MORE INFORMATION.
4. EXISTING MICROPHONE IS TO REMAIN. MAKE ANY MODIFICATIONS REQUIRED TO MAINTAIN CIRCUIT INTEGRITY.
5. EXISTING DEVICES ARE TO REMAIN. MAKE ANY MODIFICATIONS REQUIRED TO MAINTAIN CIRCUIT INTEGRITY TO THESE DEVICES. PROVIDE CONDUIT AND CONDUCTORS AS NEEDED.
6. EXISTING FIRE ALARM DEVICES ARE TO REMAIN. MAINTAIN CIRCUIT INTEGRITY TO THESE DEVICES. PROVIDE CONDUIT AND CONDUCTORS AS NEEDED.
7. EXISTING CLOCK IS TO REMAIN. MAKE ANY MODIFICATIONS REQUIRED TO MAINTAIN CIRCUIT INTEGRITY.
8. EXISTING SECURITY CAMERA TO REMAIN. MAKE ANY MODIFICATIONS REQUIRED TO MAINTAIN CIRCUIT INTEGRITY.
9. REMOVE EXISTING FIRE ALARM PULL STATION, ASSOCIATED CONDUIT AND CONDUCTORS ALL THE WAY BACK TO ORIGINATION POINT.
10. NEW LOCATIONS FOR EXISTING PANEL "H4, "L4" AND 45 KVA STEP DOWN TRANSFORMER. EXTEND ALL BRANCH CIRCUIT FEEDER CONDUIT AND CONDUCTORS TO NEW LOCATIONS FOR A COMPLETE INSTALLATION.
11. NEW LOCATION OF EXISTING ATC PANEL. EXTEND EXISTING POWER CONDUIT AND CONDUCTORS TO NEW LOCATION FOR A COMPLETE INSTALLATION.
12. FURNISH AND INSTALL J-BOXES FOR FUTURE SECURITY SYSTEM IN THE APPROXIMATE LOCATINS AS SHOWN. RUN A 3/4" CONDUIT FROM J-BOX TO THE NEAREST CABLE TRAY.
13. INSTALL EXISTING 9 KVA TRANSFORMER ABOVE THE CEILING IN THE APPROXIMATE LOCATION SHOWN. EXTEND PRIMARY AND SECONDARY FEEDER CONDUIT AND CONDUCTORS TO NEW LOCATION FOR A COMPLETE INSTALLATION.
14. NEW LOCATIONS OF EXISTING COMBO STARTER/DISCONNECTS. EXTEND EXISTING POWER CONDUIT AND CONDUCTORS TO NEW LOCATION FOR A COMPLETE INSTALLATION.
15. FURNISH AND INSTALL A 4"X4"X2-1/8" J-BOX ON THE CEILING IN THE APPROXIMATE LOCATION SHOWN FOR WIRELESS ACCESS POINT. COORDINATE EXACT LOCATION WITH WSU.
16. CARD READER.

KEY PLAN



VCBO
ARCHITECTURE
VALENTINER
CRANE
BRUNJES
ONYON

#172577
10-03-12

VCBO ARCHITECTURE
524 SOUTH 600 EAST
SALT LAKE CITY, UT 84102
Phone: (801) 575-8800
Fax: (801) 531-9850
WWW: www.vcbo.com

DFCM CODE COMPLIANCE STAMP

# Stromberg Student Activity Center

## Stromberg Addition - BID SET

Weber State University
3750 Harrison Blvd. Ogden, UT 84408

| Rev # | Date | Description |
|---|---|---|

Job # 4317
CAD File
Drawn PB Checked AM
Date 10.03.2012
Owner #

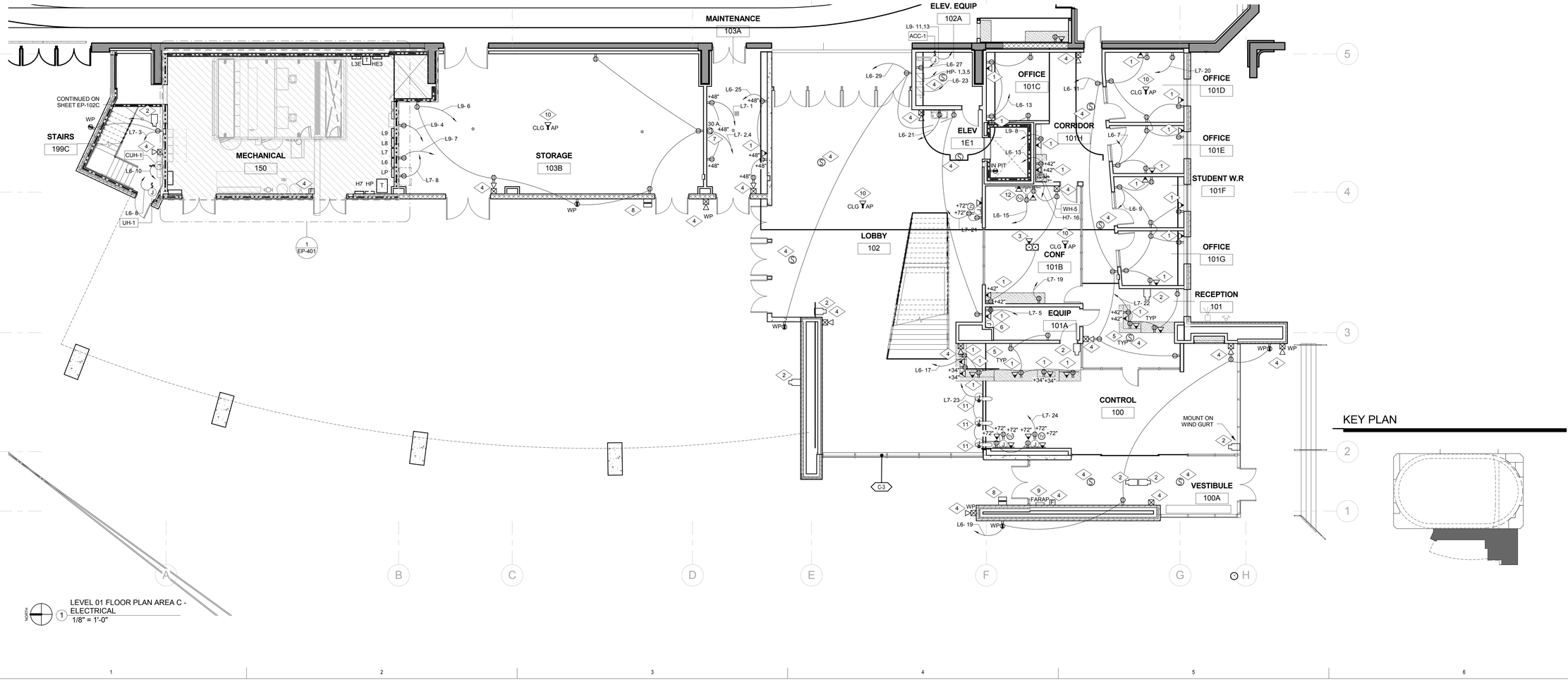
LEVEL 01 FLOOR PLAN
AREA B - ELECTRICAL

EP-101B

10/3/2012 8:50:11 AM

## REFERENCE NOTES:

| | |
|---|---|
| 1 | FURNISH AND INSTALL A 4"X4"X2 1/8" DEEP BOX FOR VOICE/DATA JACKS IN THE APPROXIMATE LOCATION SHOWN. RUN TWO (2) 1" CONDUITS FROM THE J-BOX TO THE ACCESSIBLE CEILING SPACE. TURN CONDUIT 90 DEGREES AND PROVIDE A PLASTIC BUSHING. INSERT PULL STRING AND LABEL. |
| 2 | FURNISH AND INSTALL J-BOXES FOR FUTURE SECURITY SYSTEM IN THE APPROXIMATE LOCATINS AS SHOWN. RUN A 3/4" CONDUIT FROM J-BOX TO THE NEAREST CABLE TRAY. |
| 3 | FURNISH AND INSTALL NEW FLUSH FLOOR OUTLET (HUBBELL #HBLCFB301BASE. .) WITH TWO DUPLEX OUTLETS AND BLACK COVER PLATE. COORDINATE THE EXACT LOCATION WITH THE ARCHITECT AND OWNER PRIOR TO ROUGH IN. |
| 4 | FURNISH AND INSTALL NEW ADDRESSABLE FIRE ALARM DEVICES IN THE APPROXIMATE LOCATION SHOWN. TIE TO THE FIRE ALARM SYSTEM IN CLASS "A" LOOP. IN AND OUT CIRCUITS SHALL RUN IN SEPARATE CONDUITS. REFER TO THE FIRE ALARM RISER AND SPECIFICATIONS FOR MORE INFORMATION. |
| 5 | INSTALL THE DEVICES IN THE APPROXIMATE LOCATION IN THE MILLWORK. COORDINATE THE EXACT LOCATIONS OF OUTLETS, STUB-UPS, AND CONDUIT ROUTES WITH THE MILLWORK SUPPLIER PRIOR TO ROUGH IN. |
| 6 | A/V BOX. |
| 7 | SPECIAL OUTLET. 2#10, 1#10 NEUTRAL, 1#10 GROUND. |
| 8 | CARD READER. |
| 9 | FURNISH AND INSTALL FIRE ALARM REMOTE ANNUNCIATION PANEL IN THE APPROXIMATE LOCATION SHOWN. TIE TO THE NEW FIRE ALARM CONTROL PANEL. |
| 10 | FURNISH AND INSTALL A 4"X4"X2-1/8" J-BOX ON THE CEILING IN THE APPROXIMATE LOCATION SHOWN FOR WIRELESS ACCESS POINT. COORDINATE EXACT LOCATION WITH WSU. |
| 11 | RUN 1" CONDUIT FROM TURNSTILE BACK TO RECEPTIONIST DESK. COORDINATE EXACT STUB UP LOCATION WITH WSU. ISNERT PULL STRING AND LABEL. TIE TO CIRCUIT INDICATED. |
| 12 | TV OUTLET. |




1 LEVEL 01 FLOOR PLAN AREA C - ELECTRICAL
1/8" = 1'-0"


VCBO
ARCHITECTURE
VALENTINER
CRANE
BRUNJES
ONYON

VCBO ARCHITECTURE
524 SOUTH 600 EAST
SALT LAKE CITY, UT 84102
Phone: (801) 575-8800
Fax: (801) 531-9850
WWW: www.vcbo.com


#172577
10-03-12

DFCM CODE COMPLIANCE STAMP

# Stromberg Student Activity Center

Stromberg Addition - BID SET
Weber State University
3750 Harrison Blvd. Ogden, UT 84408

| Rev # | Date | Description |
|---|---|---|

Job # 4317
CAD File
Drawn PB Checked AM
Date 10.03.2012
Owner #

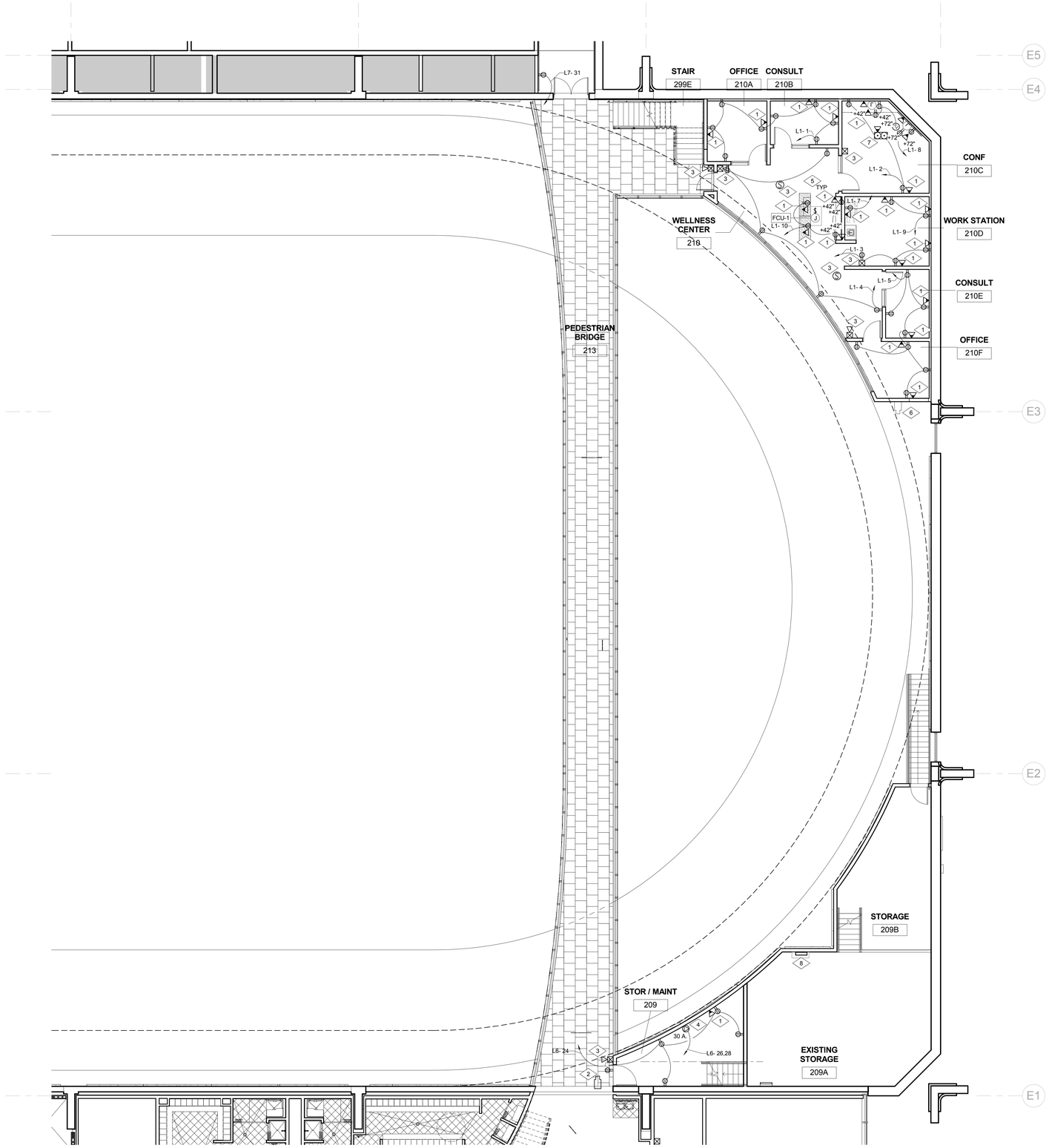
LEVEL 01 FLOOR PLAN
AREA C - ELECTRICAL

EP-101C

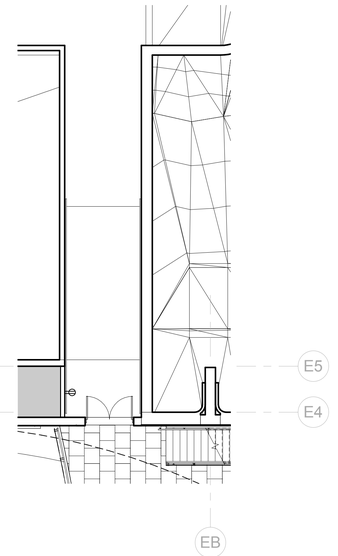
10/3/2012 8:50:14 AM

## REFERENCE NOTES:

1. FURNISH AND INSTALL A 4"X4"X2 1/8" DEEP BOX FOR VOICE/DATA JACKS IN THE APPROXIMATE LOCATION SHOWN. RUN TWO (2) 1" CONDUITS FROM THE J-BOX TO THE ACCESSIBLE CEILING SPACE. TURN CONDUIT 90 DEGREES AND PROVIDE A PLASTIC BUSHING. INSERT PULL STRING AND LABEL.
2. FURNISH AND INSTALL J-BOXES FOR FUTURE SECURITY SYSTEM IN THE APPROXIMATE LOCATINS AS SHOWN. RUN A 3/4" CONDUIT FROM J-BOX TO THE NEAREST CABLE TRAY.
3. FURNISH AND INSTALL NEW ADDRESSABLE FIRE ALARM DEVICES IN THE APPROXIMATE LOCATION SHOWN. TIE TO THE FIRE ALARM SYSTEM IN CLASS "A" LOOP. IN AND OUT CIRCUITS SHALL RUN IN SEPARATE CONDUITS. REFER TO THE FIRE ALARM RISER AND SPECIFICATIONS FOR MORE INFORMATION.
4. SPECIAL OUTLET. 2#10, 1#10 NEUTRAL, 1#10 GROUND.
5. INSTALL THE DEVICES IN THE APPROXIMATE LOCATION IN THE MILLWORK. COORDINATE THE EXACT LOCATIONS OF OUTLETS, STUB-UPS, AND CONDUIT ROUTES WITH THE MILLWORK SUPPLIER PRIOR TO ROUGH IN.
6. EXISTING SECURITY CAMERA TO REMAIN. MAKE ANY MODIFICATIONS REQUIRED TO MAINTAIN CIRCUIT INTEGRITY.
7. FURNISH AND INSTALL NEW FLUSH FLOOR OUTLET (HUBBELL #HBLCFB301BASE...) WITH TWO DUPLEX OUTLETS AND BLACK COVER PLATE. COORDINATE THE EXACT LOCATION WITH THE ARCHITECT AND OWNER PRIOR TO ROUGH IN.
8. NEW LOCATION OF EXISTING ATC PANEL. EXTEND EXISTING POWER CONDUIT AND CONDUCTORS TO NEW LOCATION FOR A COMPLETE INSTALLATION.

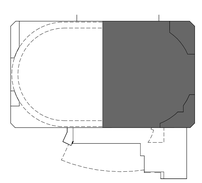



1 LEVEL 02 FLOOR PLAN AREA B - ELECTRICAL
1/8" = 1'-0"




2 NEW HALLWAY - ELECTRICAL
1/8" = 1'-0"

KEY PLAN



VCBO
ARCHITECTURE
VALENTINER
CRANE
BRUNJES
ONYON

VCBO ARCHITECTURE
524 SOUTH 600 EAST
SALT LAKE CITY, UT 84102
Phone: (801) 575-8800
Fax: (801) 531-9850
WWW: www.vcbo.com

LICENSED ARCHITECT
#172577
10-03-12
STATE OF UTAH

DFCM CODE COMPLIANCE STAMP

# Stromberg Student Activity Center

## Stromberg Addition - BID SET

Weber State University
3750 Harrison Blvd. Ogden, UT 84408

| Rev # | Date | Description |
|---|---|---|

Job # 4317
CAD File
Drawn PB Checked AM
Date 10.03.2012
Owner #

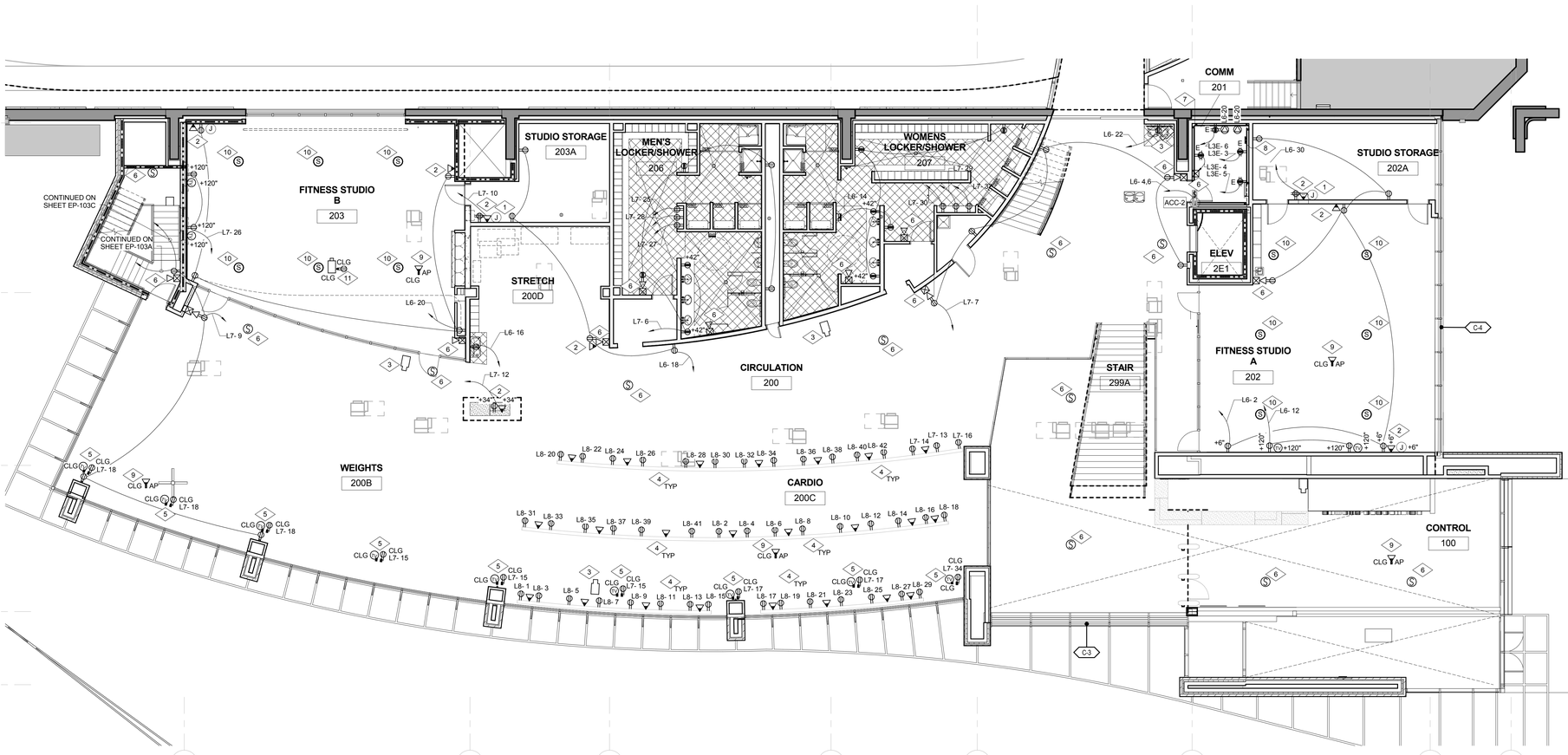
LEVEL 02 FLOOR PLAN
AREA B - ELECTRICAL

EP-102B

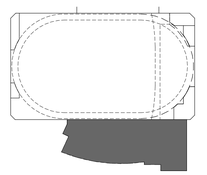
10/3/2012 8:50:16 AM

## REFERENCE NOTES:

| | |
|---|---|
| 1 | A/V BOX. |
| 2 | FURNISH AND INSTALL A 4"X4"X2 1/8" DEEP BOX FOR VOICE/DATA JACKS IN THE APPROXIMATE LOCATION SHOWN. RUN TWO (2) 1" CONDUITS FROM THE J-BOX TO THE ACCESSIBLE CEILING SPACE. TURN CONDUIT 90 DEGREES AND PROVIDE A PLASTIC BUSHING. INSERT PULL STRING AND LABEL. |
| 3 | FURNISH AND INSTALL J-BOXES FOR FUTURE SECURITY SYSTEM IN THE APPROXIMATE LOCATINS AS SHOWN. RUN A 3/4" CONDUIT FROM J-BOX TO THE NEAREST CABLE TRAY. |
| 4 | FURNISH AND INSTALL WIREMOLD G4000 WITH A SEPARATE COMPARTMENT FOR POWER AND DATA ON THE WALL IN THE APPROXIMATE LOCATION AS SHOWN. RUN ONE (1) 1" CONDUIT FROM EACH END OF WIREMOLD COMMUNICATION COMPARTMENT TO THE CABLE TRAY. INSERT PULL WIRE AND LABEL CONDUIT. FURNISH AND INSTALL ALL ACCESSORIES AS REQUIRED. FURNISH AND INSTALL COVERPLATES FOR OWNER FURNISHED COMMUNICATION OUTLETS. |
| 5 | TV OUTLET. |
| 6 | FURNISH AND INSTALL NEW ADDRESSABLE FIRE ALARM DEVICES IN THE APPROXIMATE LOCATION SHOWN. TIE TO THE FIRE ALARM SYSTEM IN CLASS "A" LOOP. IN AND OUT CIRCUITS SHALL RUN IN SEPARATE CONDUITS. REFER TO THE FIRE ALARM RISER AND SPECIFICATIONS FOR MORE INFORMATION. |
| 7 | FURNISH AND INSTALL SHEET OF FIRE TREATED PLYWOOD ON THE WALL IN THE APPROXIMATE LOCATION SHOWN. PAINT WITH (2) TWO COATS OF WHITE FIRE RETARDANT PAINT. |
| 8 | FURNISH AND INSTALL AN ISOLATED COPPER GROUND BUS BAR IN THE APPROXIMATE LOCATION SHOWN. REFER TO GROUND BUS BAR DETAIL FOR MORE INFORMATION. COORDINATE EXACT LOCATION AND HEIGHT OF GROUND BUS BAR WITH ARCHITECT. |
| 9 | FURNISH AND INSTALL A 4"X4"X2-1/8" J-BOX ON THE CEILING IN THE APPROXIMATE LOCATION SHOWN FOR WIRELESS ACCESS POINT. COORDINATE EXACT LOCATION WITH WSU. |
| 10 | CEILING MOUNTED SPEAKER SHOWN FOR REFERENCE ONLY. SPEAKERS AND CABLING WILL BE PROVIDED BY OTHERS. |
| 11 | PROJECTOR. |




KEY PLAN



NORTH

1 LEVEL 02 FLOOR PLAN AREA C - ELECTRICAL
1/8" = 1'-0"

10/3/2012 8:50:22 AM

VCBO
ARCHITECTURE
VALENTINER
CRANE
BRUNJES
ONYON


VCBO ARCHITECTURE
524 SOUTH 600 EAST
SALT LAKE CITY, UT 84102
Phone: (801) 575-8800
Fax: (801) 531-9850
WWW: www.vcbo.com


DFCM CODE COMPLIANCE STAMP

# Stromberg Student Activity Center

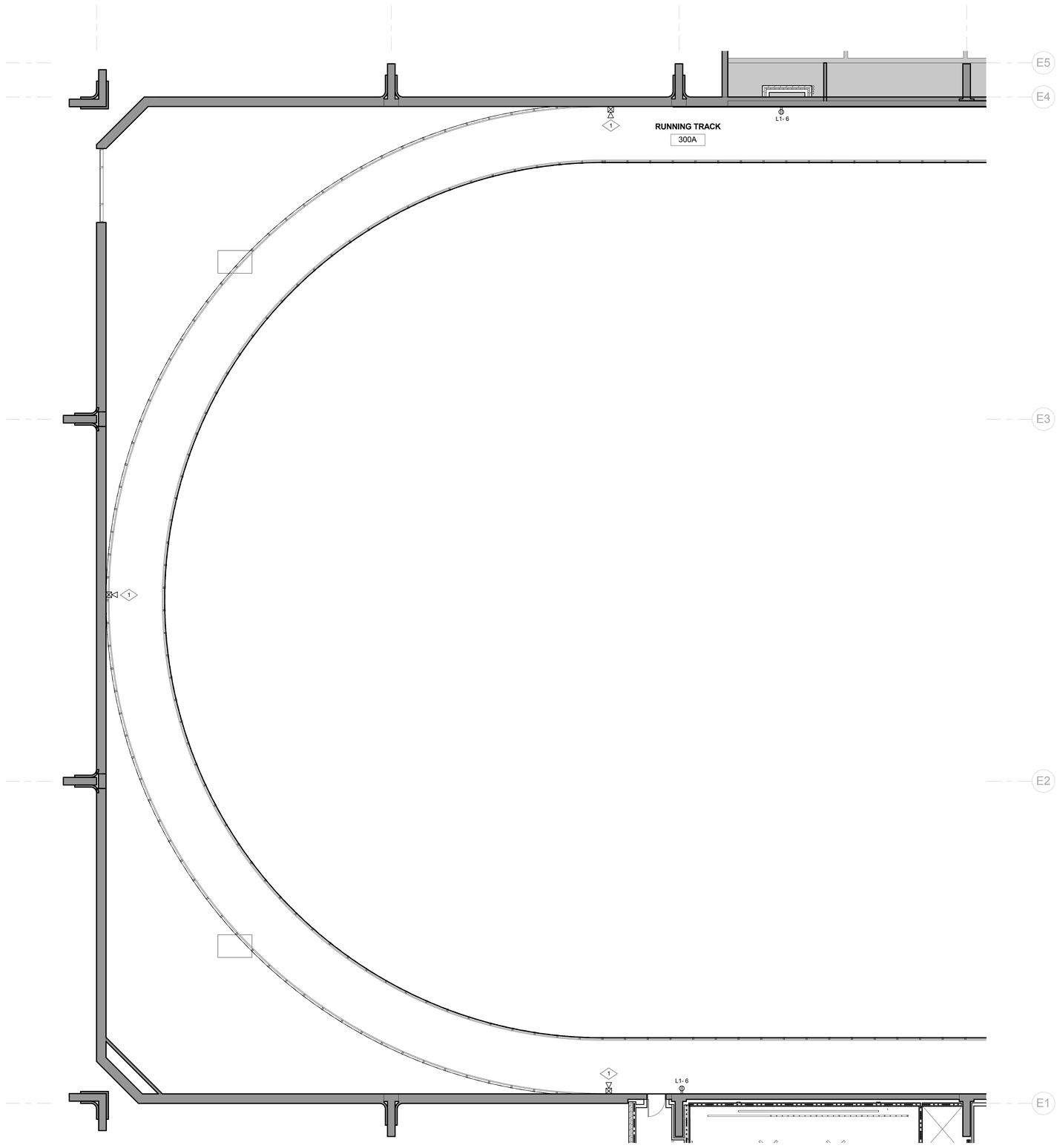
Stromberg Addition - BID SET
Weber State University
3750 Harrison Blvd. Ogden, UT 84408

| Rev # | Date | Description |
|---|---|---|

Job # 4317
CAD File
Drawn PB Checked AM
Date 10.03.2012
Owner #

LEVEL 02 FLOOR PLAN
AREA C - ELECTRICAL

EP-102C

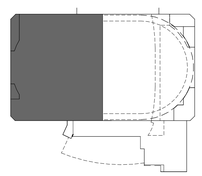



LEVEL 03 FLOOR PLAN AREA A - ELECTRICAL
1/8" = 1'-0"

## REFERENCE NOTES:

1 FURNISH AND INSTALL NEW ADDRESSABLE FIRE ALARM DEVICES IN THE APPROXIMATE LOCATION SHOWN. TIE TO THE FIRE ALARM SYSTEM IN CLASS "A" LOOP. IN AND OUT CIRCUITS SHALL RUN IN SEPARATE CONDUITS. REFER TO THE FIRE ALARM RISER AND SPECIFICATIONS FOR MORE INFORMATION.

KEY PLAN



VCBO
ARCHITECTURE
VALENTINER
CRANE
BRUNJES
ONYON

#172577
10-03-12

VCBO ARCHITECTURE
524 SOUTH 600 EAST
SALT LAKE CITY, UT 84102
Phone: (801) 575-8800
Fax: (801) 531-9850
WWW: www.vcbo.com

DFCM CODE COMPLIANCE STAMP

# Stromberg Student Activity Center

## Stromberg Addition - BID SET

Weber State University
3750 Harrison Blvd. Ogden, UT 84408

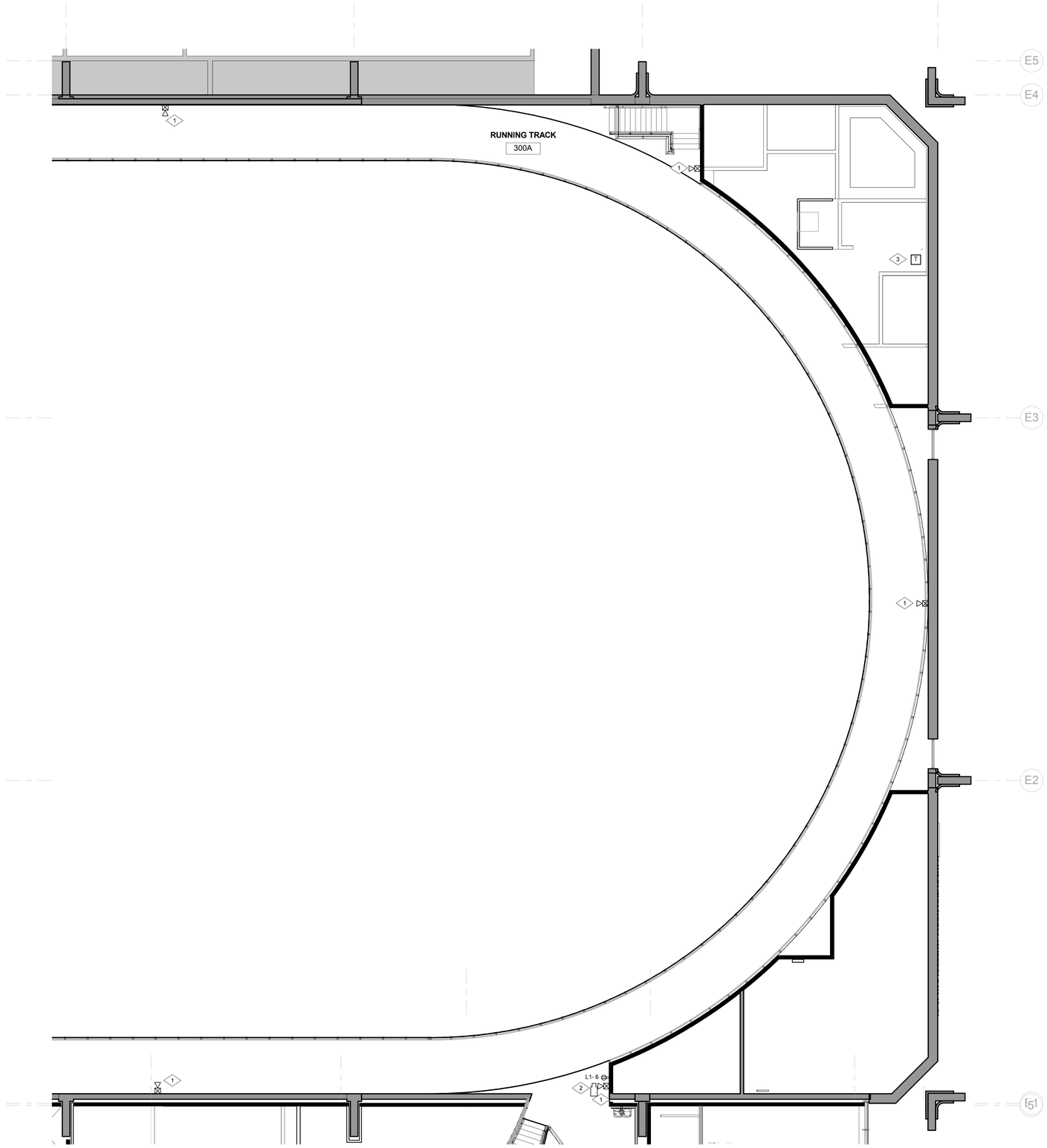
| Rev # | Date | Description |
|---|---|---|

Job # 4317
CAD File
Drawn PB Checked AM
Date 10.03.2012
Owner #

LEVEL 03 FLOOR PLAN
AREA A - ELECTRICAL

EP-103A

10/3/2012 8:50:25 AM

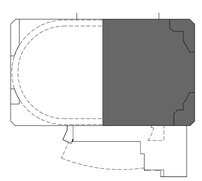



LEVEL 03 FLOOR PLAN AREA B - ELECTRICAL
1/8" = 1'-0"

## REFERENCE NOTES:

1. FURNISH AND INSTALL NEW ADDRESSABLE FIRE ALARM DEVICES IN THE APPROXIMATE LOCATION SHOWN. TIE TO THE FIRE ALARM SYSTEM IN CLASS "A" LOOP. IN AND OUT CIRCUITS SHALL RUN IN SEPARATE CONDUITS. REFER TO THE FIRE ALARM RISER AND SPECIFICATIONS FOR MORE INFORMATION.
2. FURNISH AND INSTALL J-BOXES FOR FUTURE SECURITY SYSTEM IN THE APPROXIMATE LOCATINS AS SHOWN. RUN A 3/4" CONDUIT FROM J-BOX TO THE NEAREST CABLE TRAY.
3. INSTALL EXISTING 45 KVA TRANSFORMER NEXT TO THE AIR HANDLING UNIT ON THE 3RD LEVEL IN THE APPROXIMATE LOCATION SHOWN. RUN NEW PRIMARY AND SECONDARY CONDUIT AND CONDUCTORS IN EXISTING PIPE SHAFT AND NEW WALLS. COORDINATE WITH GENERAL CONTRACTOR FOR EXACT ROUTING OF THE CONDUIT. REFER TO POWER SINGLE LINE DIAGRAM FOR MORE INFORMATION.

KEY PLAN



VCBO
ARCHITECTURE
VALENTINER
CRANE
BRUNJES
ONYON

VCBO ARCHITECTURE
524 SOUTH 600 EAST
SALT LAKE CITY, UT 84102
Phone: (801) 575-8800
Fax: (801) 531-9850
WWW: www.vcbo.com

#172577
10-03-12

DFCM CODE COMPLIANCE STAMP

# Stromberg Student Activity Center
## Stromberg Addition - BID SET
Weber State University
3750 Harrison Blvd. Ogden, UT 84408

| Rev # | Date | Description |
|---|---|---|

Job # 4317
CAD File
Drawn PB Checked AM
Date 10.03.2012
Owner #

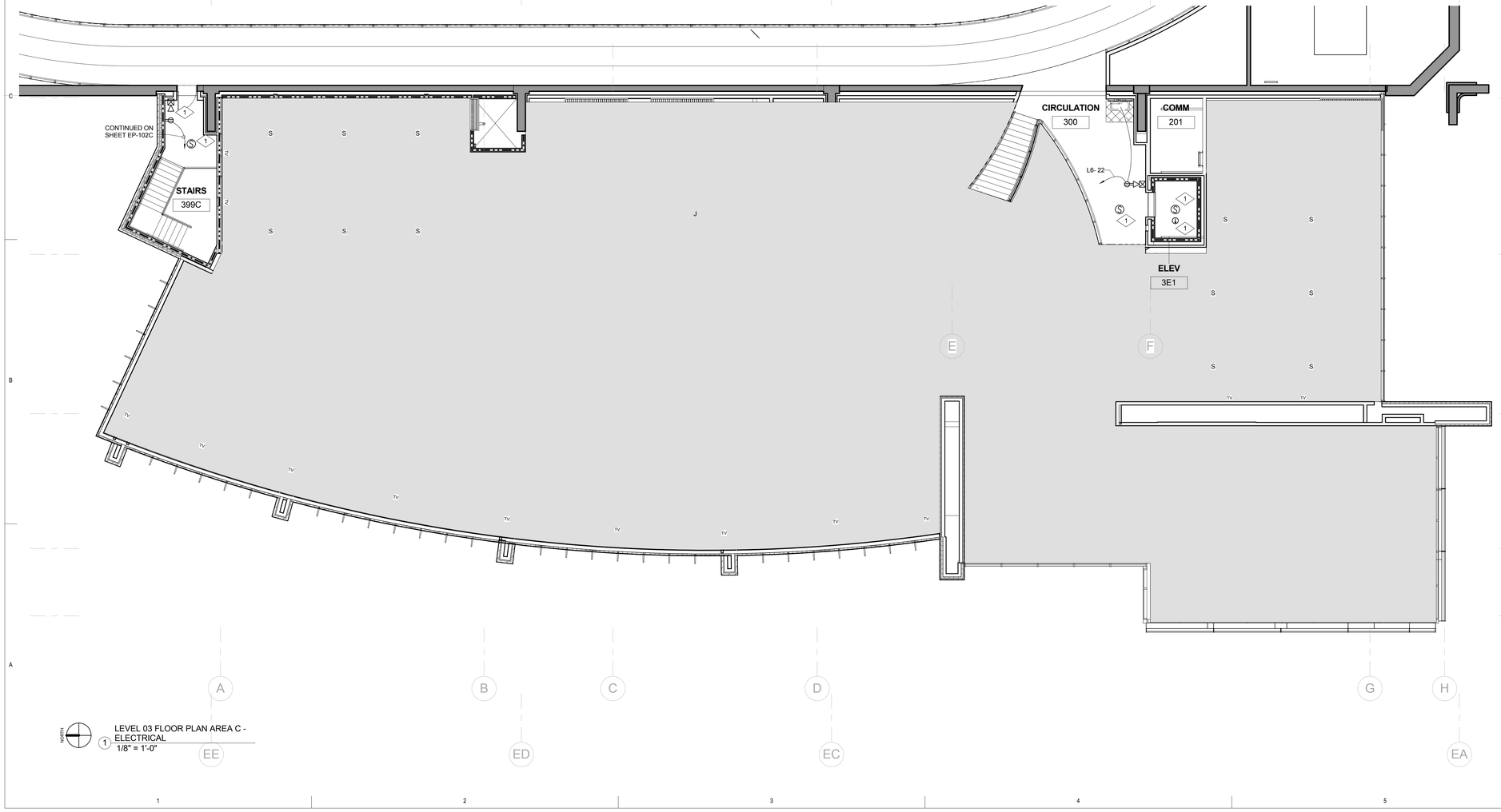
LEVEL 03 FLOOR PLAN
AREA B - ELECTRICAL

EP-103B

10/3/2012 8:50:28 AM

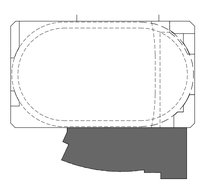
## REFERENCE NOTES:

1 FURNISH AND INSTALL NEW ADDRESSABLE FIRE ALARM DEVICES IN THE APPROXIMATE LOCATION SHOWN. TIE TO THE FIRE ALARM SYSTEM IN CLASS "A" LOOP. IN AND OUT CIRCUITS SHALL RUN IN SEPARATE CONDUITS. REFER TO THE FIRE ALARM RISER AND SPECIFICATIONS FOR MORE INFORMATION.




LEVEL 03 FLOOR PLAN AREA C - ELECTRICAL
1/8" = 1'-0"

KEY PLAN




ARCHITECTURE
VALENTINER
CRANE
BRUNJES
ONYON

#172577
10-03-12

VCBO ARCHITECTURE
524 SOUTH 600 EAST
SALT LAKE CITY, UT 84102
Phone: (801) 575-8800
Fax: (801) 531-9850
WWW: www.vcbo.com


DFCM CODE COMPLIANCE STAMP

# Stromberg Student Activity Center

## Stromberg Addition - BID SET

Weber State University
3750 Harrison Blvd. Ogden, UT 84408

| Rev # | Date | Description |
|---|---|---|

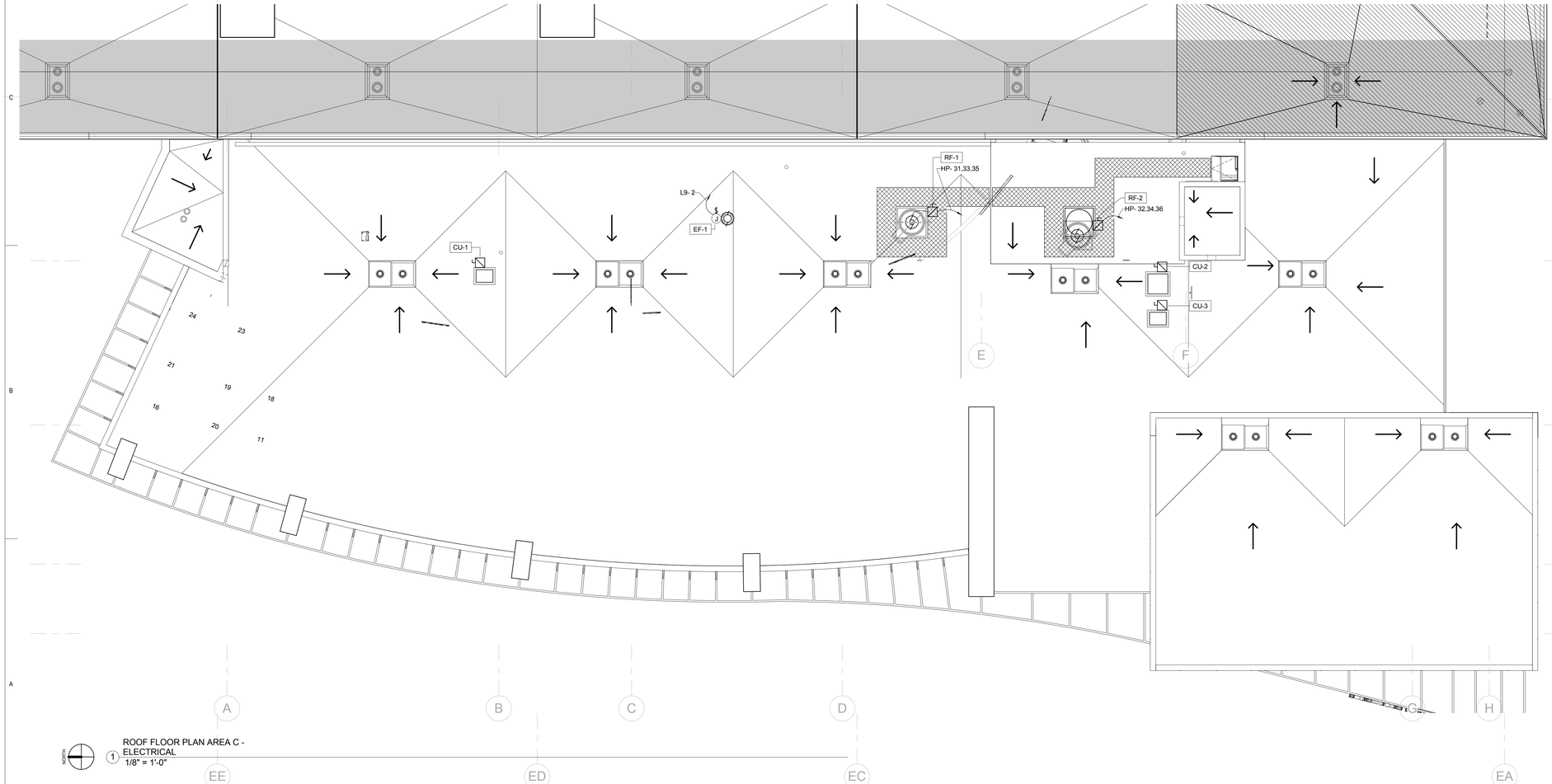
Job # 4317
CAD File
Drawn PB Checked AM
Date 10.03.2012
Owner #

LEVEL 03 FLOOR PLAN
AREA C - ELECTRICAL

EP-103C

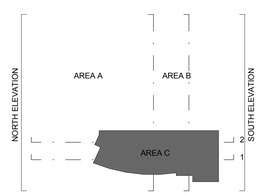
10/3/2012 8:50:33 AM

REFERENCE NOTES:




1 ROOF FLOOR PLAN AREA C - ELECTRICAL
1/8" = 1'-0"

KEY PLAN





ARCHITECTURE
VALENTINER
CRANE
BRUNJES
ONYON

#172577
10-03-12

VCBO ARCHITECTURE
524 SOUTH 600 EAST
SALT LAKE CITY, UT 84102
Phone: (801) 575-8800
Fax: (801) 531-9850
WWW: www.vcbo.com


DFCM CODE COMPLIANCE STAMP

# Stromberg Student Activity Center

## Stromberg Addition - BID SET

Weber State University
3750 Harrison Blvd. Ogden, UT 84408

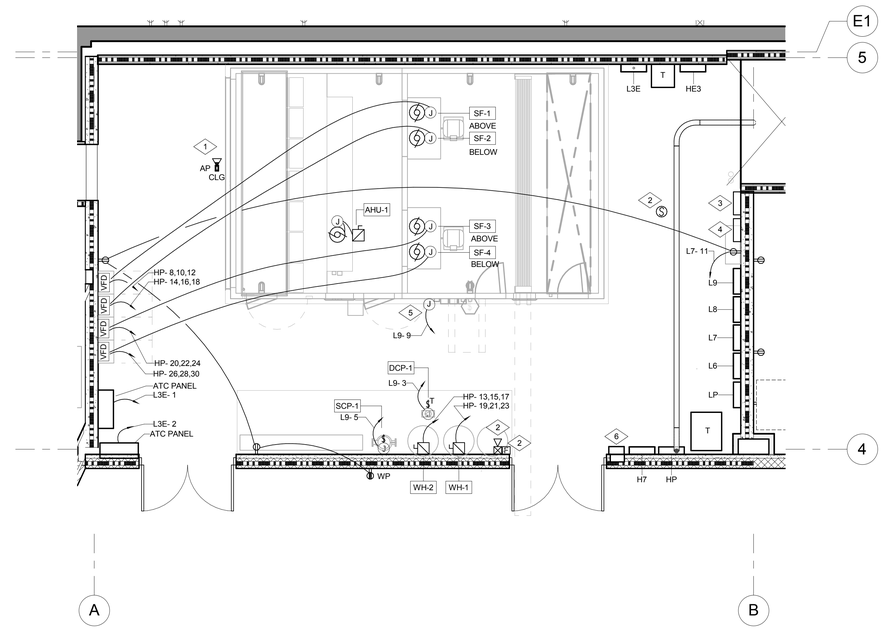
| Rev # | Date | Description |
|---|---|---|

Job # 4317
CAD File
Drawn PB Checked AM
Date 10.03.2012
Owner #

ROOF PLAN AREA C - ELECTRICAL

EP-104

10/3/2012 8:50:40 AM




1 LEVEL 01 FLOOR PLAN AREA C - MECHANICAL 150
1/4" = 1'-0"

## REFERENCE NOTES:

1. FURNISH AND INSTALL A 4"X4"X2-1/8" J-BOX ON THE CEILING IN THE APPROXIMATE LOCATION SHOWN FOR WIRELESS ACCESS POINT. COORDINATE EXACT LOCATION WITH WSU.
2. FURNISH AND INSTALL NEW ADDRESSABLE FIRE ALARM DEVICES IN THE APPROXIMATE LOCATION SHOWN. TIE TO THE FIRE ALARM SYSTEM IN CLASS "A" LOOP. IN AND OUT CIRCUITS SHALL RUN IN SEPARATE CONDUITS. REFER TO THE FIRE ALARM RISER AND SPECIFICATIONS FOR MORE INFORMATION.
3. FURNISH AND INSTALL A NEW NOTIFIER DAA-7525 DIGITAL VOICE AMPLIFIER IN THE APPROXIMATE LOCATION SHOWN.
4. FURNISH AND INSTALL A NEW NOTIFIER FCPS-24S8 LOOP EXPANSION MODULE AND POWER SUPPLY IN THE APPROXIMATE LOCATION SHOWN. TIE TO NEW FIRE ALARM CONTROL PANEL.
5. PROVIDE POWER FOR LIGHTING IN AIR HANDLING UNIT.
6. FURNISH AND INSTALL A 120 VOLT TIME CLOCK IN THE APPROXIMATE LOCATION SHOWN TO CONTROL EXTERIOR LIGHTS. LC&D CAT # GR1404LT-PC OR APPROVED EQUAL. TIE THE TIME CLOCK TO UNSWITCHED 120 VOLT POWER. PROVIDE CONDUIT AND CONDUCTORS FOR A COMPLETE INSTALLATION. COORDINATE PROGRAMMING WITH OWNER.


VCBO
ARCHITECTURE
VALENTINER
CRANE
BRUNJES
ONYON

#172577
10-03-12

VCBO ARCHITECTURE
524 SOUTH 600 EAST
SALT LAKE CITY, UT 84102
Phone: (801) 575-8800
Fax: (801) 531-9850
WWW: www.vcbo.com


DFCM CODE COMPLIANCE STAMP

# Stromberg Student Activity Center

## Stromberg Addition - BID SET

Weber State University
3750 Harrison Blvd. Ogden, UT 84408

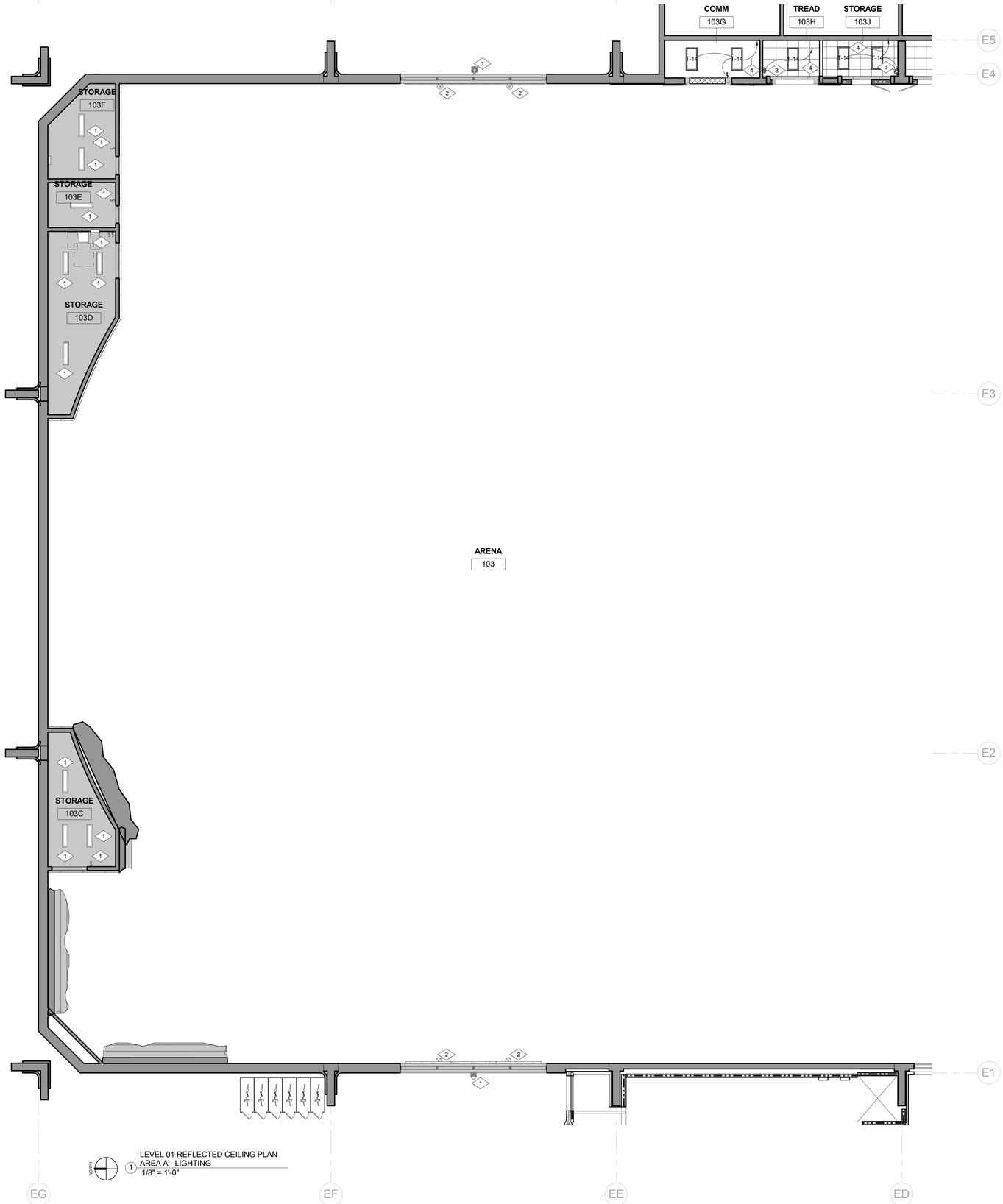
| Rev # | Date | Description |
|---|---|---|

Job # 4317
CAD File
Drawn PB Checked AM
Date 10.03.2012
Owner #

ENLARGED PLANS - ELECTRICAL

EP-401

10/3/2012 8:50:40 AM

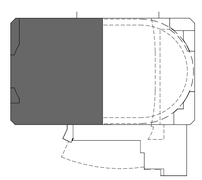



LEVEL 01 REFLECTED CEILING PLAN
AREA A - LIGHTING
1/8" = 1'-0"

## REFERENCE NOTES:

1. EXISTING LIGHT FIXTURES AND SWITCHES ARE TO REMAIN. MAKE ANY MODIFICATIONS REQUIRED TO MAINTAIN CIRCUIT INTEGRITY TO THESE DEVICES.
2. TIE EXIT SIGN TO THE NEAREST UNSWITCHED EMERGENCY LIGHTING CIRCUIT.
3. FURNISH AND INSTALL A WALL MOUNTED DUAL TECHNOLOGY MOTION SENSOR WITH AUTO-OFF SWITCH IN APPROXIMATE LOCATION SHOWN. WATTSTOPPER TYPE DSW-100.
4. TIE LIGHT FIXTURES TO THE EXISTING LIGHTING CIRCUIT IN THE AREA.

KEY PLAN



VCBO
ARCHITECTURE
VALENTINER
CRANE
BRUNJES
ONYON

#172577
10-03-12

VCBO ARCHITECTURE
524 SOUTH 600 EAST
SALT LAKE CITY, UT 84102
Phone: (801) 575-8800
Fax: (801) 531-9850
WWW: www.vcbo.com

DFCM CODE COMPLIANCE STAMP

# Stromberg Student Activity Center

## Stromberg Addition - BID SET

Weber State University
3750 Harrison Blvd. Ogden, UT 84408

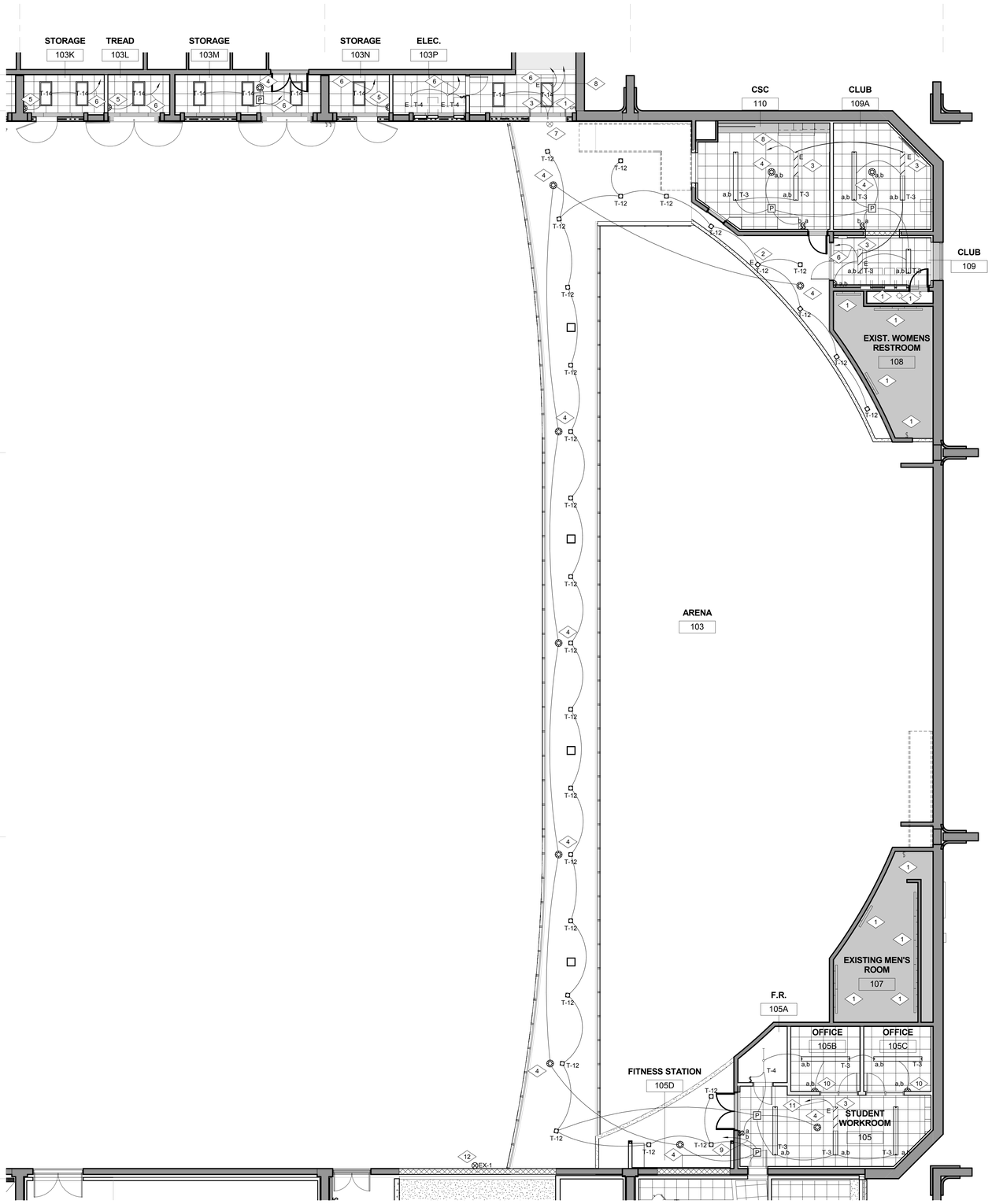
| Rev # | Date | Description |
|---|---|---|

Job # 4317
CAD File
Drawn PB Checked AM
Date 10.03.2012
Owner #

LEVEL 01 REFLECTED CEILING PLAN AREA A - LIGHTING

EL-101A

10/3/2012 8:49:48 AM

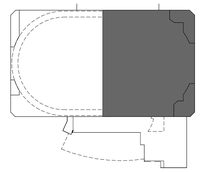



LEVEL 01 REFLECTED CEILING PLAN
AREA B - LIGHTING
1/8" = 1'-0"

## REFERENCE NOTES:

1. EXISTING LIGHT FIXTURES AND SWITCHES ARE TO REMAIN. MAKE ANY MODIFICATIONS REQUIRED TO MAINTAIN CIRCUIT INTEGRITY TO THESE DEVICES.
2. EMERGENCY LIGHTING.
3. TIE EMERGENCY LIGHT TO A BODINE TRANSFER SWITCH (CAT. #GTD OR APPROVED EQUAL) SUCH THAT WHEN COMMERCIAL POWER FAILS THE EMERGENCY LIGHTS COME ON AUTOMATICALLY REGARDLESS OF POSITION OF LIGHT SWITCHES. PROVIDE UNSWITCHED POWER TO TRANSFER SWITCH. REFER TO MANUFACTURER WIRING DIAGRAM FOR MORE INFORMATION. NORMALLY THESE LIGHT FIXTURES ARE CONTROLLED BY LIGHT SWITCHES.
4. FURNISH AND INSTALL A DUAL TECHNOLOGY CEILING MOUNTED MOTION SENSOR WITH POWER PACK IN THE APPROXIMATE LOCATION SHOWN. WATTSTOPPER TYPE LMDC-100. TIE THE LIGHT FIXTURES TO THE WALL SWITCH THROUGH THE POWER PACK. TIE THE MOTION SENSOR TO POWER PACK. REFER TO MANUFACTURER WIRING DIAGRAM FOR MORE INFORMATION. PROVIDE CONDUIT AND CONDUCTORS FOR A COMPLETE INSTALLATION.
5. FURNISH AND INSTALL A WALL MOUNTED DUAL TECHNOLOGY MOTION SENSOR WITH AUTO-OFF SWITCH IN APPROXIMATE LOCATION SHOWN. WATTSTOPPER TYPE DSW-100.
6. TIE LIGHT FIXTURES TO THE EXISTING LIGHTING CIRCUIT IN THE AREA.
7. EXISTING EXIT SIGNS ARE TO REMAIN. MAKE ANY MODIFICATIONS REQUIRED TO MAINTAIN CIRCUIT INTEGRITY.
8. TIE EMERGENCY LIGHT FIXTURES TO THE NEARERST UNSWITCHED EXISTING EMERGENCY LIGHTING CIRCUIT IN THE AREA.
9. TIE EXTERIOR LIGHT POLES TO DESIGNATED CIRCUIT THROUGH NEW TIME CLOCK.
10. FURNISH AND INSTALL A 2-BUTTON, DUAL TECHNOLOGY WALL MOUNTED MOTION SENSOR IN THE APPROXIMATE LOCATION SHOWN. WATTSTOPPER TYPE DSW-200.
11. TIE EMERGENCY LIGHT FIXTURE TO THE NEW EMERGENCY LIGHTING CIRCUIT ON SHEET EL-101C.
12. TIE EXIT SIGN TO THE NEAREST UNSWITCHED EMERGENCY LIGHTING CIRCUIT.

KEY PLAN



VCBO
ARCHITECTURE
VALENTINER
CRANE
BRUNJES
ONYON

#172577
10-03-12

VCBO ARCHITECTURE
524 SOUTH 600 EAST
SALT LAKE CITY, UT 84102
Phone: (801) 575-8800
Fax: (801) 531-9850
WWW: www.vcbo.com

DFCM CODE COMPLIANCE STAMP

# Stromberg Student Activity Center

## Stromberg Addition - BID SET

Weber State University
3750 Harrison Blvd. Ogden, UT 84408

| Rev # | Date | Description |
|---|---|---|

Job # 4317
CAD File
Drawn PB Checked AM
Date 10.03.2012
Owner #

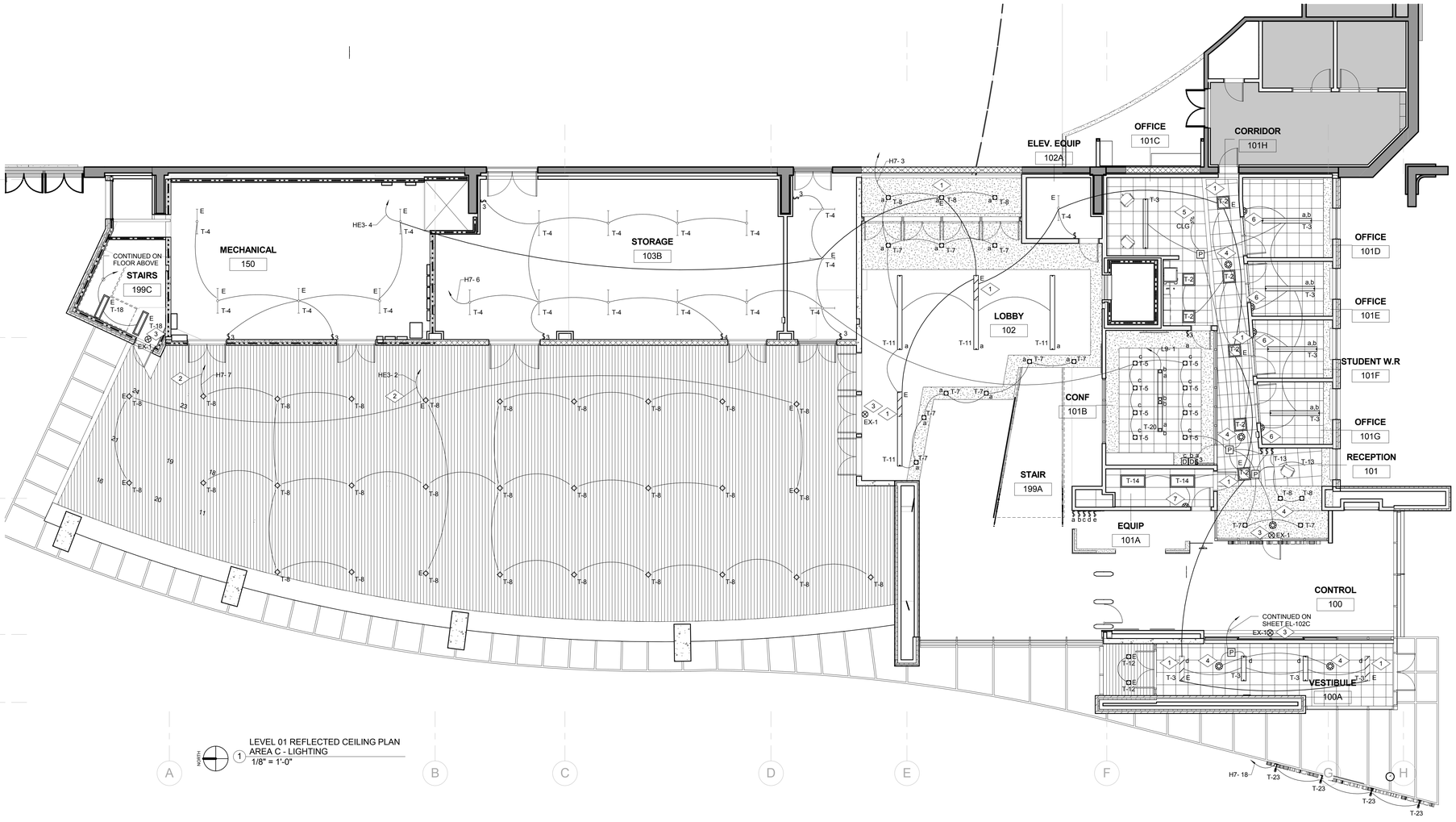
LEVEL 01 REFLECTED CEILING PLAN AREA B - LIGHTING

EL-101B

10/3/2012 8:49:50 AM

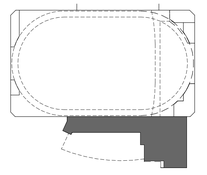
## REFERENCE NOTES:

1. TIE EMERGENCY LIGHT TO A BODINE TRANSFER SWITCH (CAT. #GTD OR APPROVED EQUAL) SUCH THAT WHEN COMMERCIAL POWER FAILS THE EMERGENCY LIGHTS COME ON AUTOMATICALLY REGARDLESS OF POSITION OF LIGHT SWITCHES. PROVIDE UNSWITCHED POWER TO TRANSFER SWITCH. REFER TO MANUFACTURER WIRING DIAGRAM FOR MORE INFORMATION. NORMALLY THESE LIGHT FIXTURES ARE CONTROLLED BY LIGHT SWITCHES.
2. FURNISH AND INSTALL A 120 VOLT TIME CLOCK IN THE APPROXIMATE LOCATION SHOWN TO CONTROL EXTERIOR LIGHTS. LC&D CAT # GR140ALT-PC OR APPROVED EQUAL. TIE THE TIME CLOCK TO UNSWITCHED 120 VOLT POWER. PROVIDE CONDUIT AND CONDUCTORS FOR A COMPLETE INSTALLATION. COORDINATE PROGRAMMING WITH OWNER.
3. TIE EXIT SIGN TO THE NEAREST UNSWITCHED EMERGENCY LIGHTING CIRCUIT.
4. FURNISH AND INSTALL A DUAL TECHNOLOGY CEILING MOUNTED MOTION SENSOR WITH POWER PACK IN THE APPROXIMATE LOCATION SHOWN. WATTSTOPPER TYPE LMDC-100. TIE THE LIGHT FIXTURES TO THE WALL SWITCH THROUGH THE POWER PACK. TIE THE MOTION SENSOR TO POWER PACK. REFER TO MANUFACTURER WIRING DIAGRAM FOR MORE INFORMATION. PROVIDE CONDUIT AND CONDUCTORS FOR A COMPLETE INSTALLATION.
5. FURNISH AND INSTALL A LONG RANGE DIRECTIONAL PIR MOTION SENSOR IN THE APPROXIMATE LOCATION SHOWN. WATTSTOPPER TYPE LMPX-100-1. REFER TO MANUFACTURER WIRING DIAGRAM FOR MORE INFORMATION. PROVIDE CONDUIT AND CONDUCTORS FOR A COMPLETE INSTALLATION.
6. FURNISH AND INSTALL A 2-BUTTON, DUAL TECHNOLOGY WALL MOUNTED MOTION SENSOR IN THE APPROXIMATE LOCATION SHOWN. WATTSTOPPER TYPE DSW-200.
7. FURNISH AND INSTALL A WALL MOUNTED DUAL TECHNOLOGY MOTION SENSOR WITH AUTO-OFF SWITCH IN APPROXIMATE LOCATION SHOWN. WATTSTOPPER TYPE DSW-100.




1 LEVEL 01 REFLECTED CEILING PLAN AREA C - LIGHTING
1/8" = 1'-0"

KEY PLAN




VCBO
ARCHITECTURE
VALENTINER
CRANE
BRUNJES
ONYON

VCBO ARCHITECTURE
524 SOUTH 600 EAST
SALT LAKE CITY, UT 84102
Phone: (801) 575-8800
Fax: (801) 531-9850
WWW: www.vcbo.com


#172577
10-03-12

DFCM CODE COMPLIANCE STAMP

# Stromberg Student Activity Center

Stromberg Addition - BID SET
Weber State University
3750 Harrison Blvd. Ogden, UT 84408

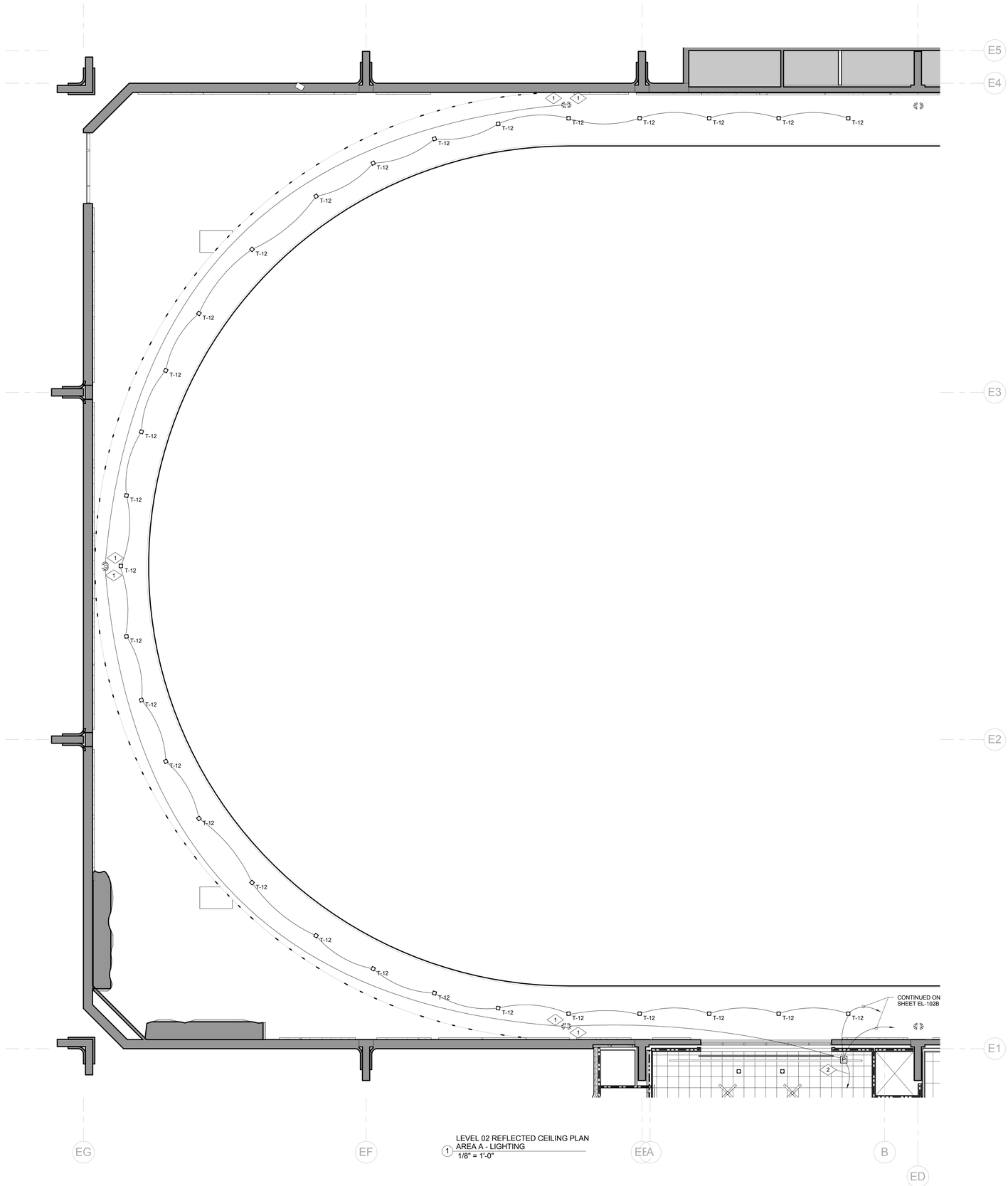
| Rev # | Date | Description |
|---|---|---|

Job # 4317
CAD File
Drawn PB Checked AM
Date 10.03.2012
Owner #

LEVEL 01 REFLECTED CEILING PLAN AREA C - LIGHTING

EL-101C

10/3/2012 8:49:53 AM



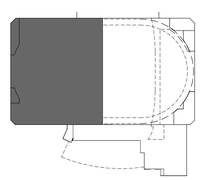

LEVEL 02 REFLECTED CEILING PLAN
AREA A - LIGHTING
1/8" = 1'-0"

## REFERENCE NOTES:

1 FURNISH AND INSTALL A LONG RANGE DIRECTIONAL PIR MOTION SENSOR IN THE APPROXIMATE LOCATION SHOWN. WATTSTOPPER TYPE LMPX-100-1. REFER TO MANUFACTURER WIRING DIAGRAM FOR MORE INFORMATION. PROVIDE CONDUIT AND CONDUCTORS FOR A COMPLETE INSTALLATION.

2 TIE THE RUNNING TRACK LIGHT FIXTURES TO THE EXISTING LIGHTING CIRCUIT AND SWITCH THAT CONTROLLED THE WALL MOUNTED LIGHT FIXTURES AROUND THE ARENA THAT WERE REMOVED DURING DEMOLITION.

KEY PLAN



VCBO
ARCHITECTURE
VALENTINER
CRANE
BRUNJES
ONYON

VCBO ARCHITECTURE
524 SOUTH 600 EAST
SALT LAKE CITY, UT 84102
Phone: (801) 575-8800
Fax: (801) 531-9850
WWW: www.vcbo.com

#172577
10-03-12

DFCM CODE COMPLIANCE STAMP

# Stromberg Student Activity Center

## Stromberg Addition - BID SET

Weber State University
3750 Harrison Blvd. Ogden, UT 84408

| Rev # | Date | Description |
|---|---|---|

Job # 4317
CAD File
Drawn PB Checked AM
Date 10.03.2012
Owner #

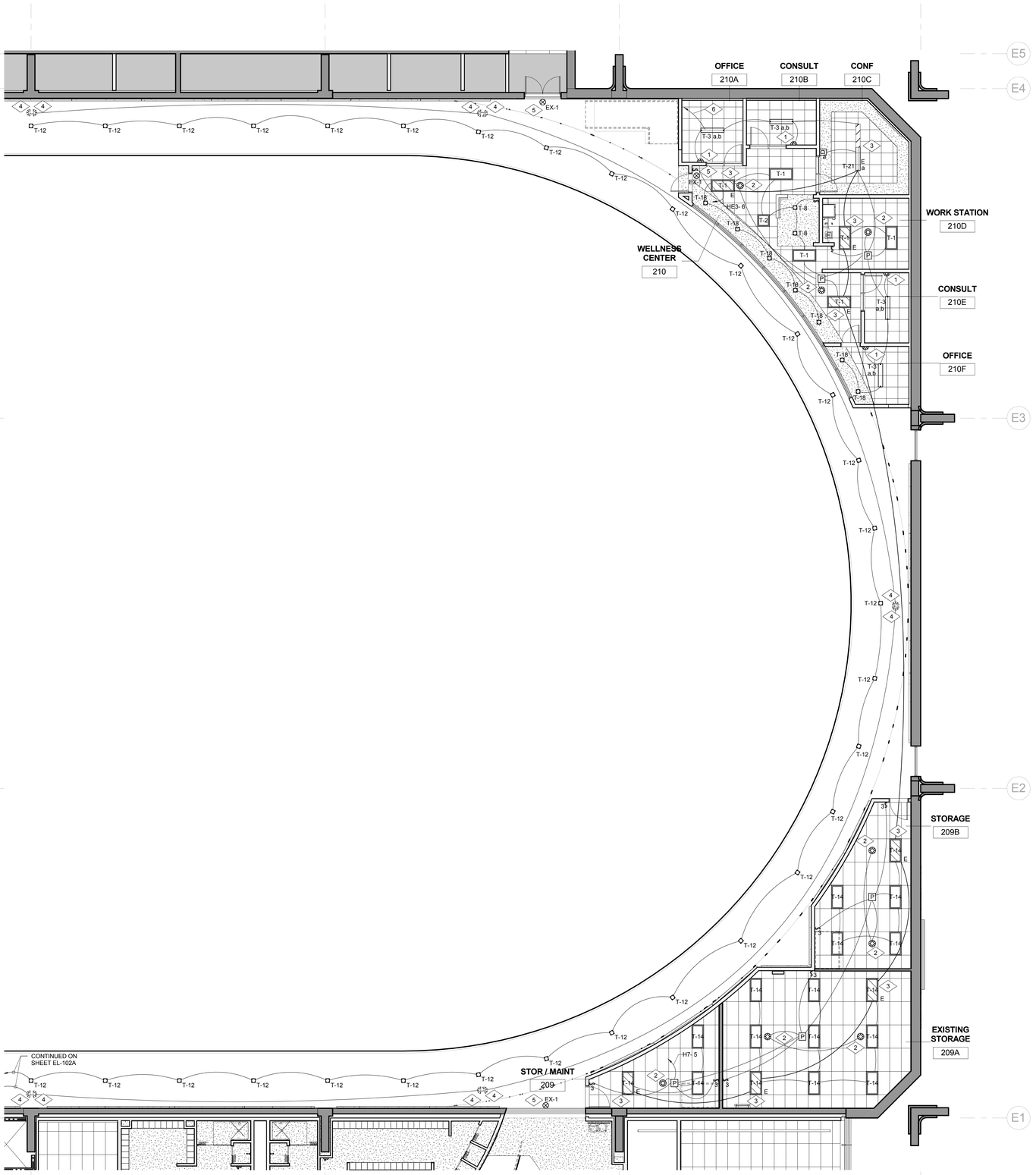
LEVEL 02 REFLECTED CEILING PLAN AREA A - LIGHTING

EL-102A

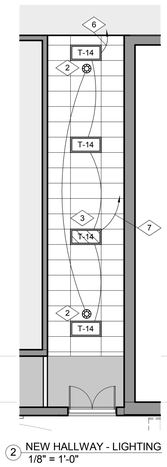
10/3/2012 8:49:54 AM

## REFERENCE NOTES:

1. FURNISH AND INSTALL A 2-BUTTON, DUAL TECHNOLOGY WALL MOUNTED MOTION SENSOR IN THE APPROXIMATE LOCATION SHOWN. WATTSTOPPER TYPE DSW-200.
2. FURNISH AND INSTALL A DUAL TECHNOLOGY CEILING MOUNTED MOTION SENSOR WITH POWER PACK IN THE APPROXIMATE LOCATION SHOWN. WATTSTOPPER TYPE LMDC-100. TIE THE LIGHT FIXTURES TO THE WALL SWITCH THROUGH THE POWER PACK. TIE THE MOTION SENSOR TO POWER PACK. REFER TO MANUFACTURER WIRING DIAGRAM FOR MORE INFORMATION. PROVIDE CONDUIT AND CONDUCTORS FOR A COMPLETE INSTALLATION.
3. TIE EMERGENCY LIGHT TO A BODINE TRANSFER SWITCH (CAT. #GTD OR APPROVED EQUAL) SUCH THAT WHEN COMMERCIAL POWER FAILS THE EMERGENCY LIGHTS COME ON AUTOMATICALLY REGARDLESS OF POSITION OF LIGHT SWITCHES. PROVIDE UNSWITCHED POWER TO TRANSFER SWITCH. REFER TO MANUFACTURER WIRING DIAGRAM FOR MORE INFORMATION. NORMALLY THESE LIGHT FIXTURES ARE CONTROLLED BY LIGHT SWITCHES.
4. FURNISH AND INSTALL A LONG RANGE DIRECTIONAL PIR MOTION SENSOR IN THE APPROXIMATE LOCATION SHOWN. WATTSTOPPER TYPE LMPX-100-1. REFER TO MANUFACTURER WIRING DIAGRAM FOR MORE INFORMATION. PROVIDE CONDUIT AND CONDUCTORS FOR A COMPLETE INSTALLATION.
5. TIE EXIT SIGN TO THE NEAREST UNSWITCHED EMERGENCY LIGHTING CIRCUIT.
6. TIE LIGHT FIXTURES TO THE EXISTING LIGHTING CIRCUIT IN THE AREA.
7. TIE EMERGENCY LIGHT FIXTURES TO THE NEARERST UNSWITCHED EXISTING EMERGENCY LIGHTING CIRCUIT IN THE AREA.

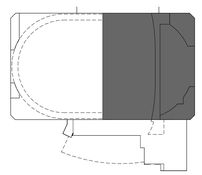



1 LEVEL 02 REFLECTED CEILING PLAN AREA B - LIGHTING
1/8" = 1'-0"



2 NEW HALLWAY - LIGHTING
1/8" = 1'-0"

KEY PLAN



VCBO ARCHITECTURE
524 SOUTH 600 EAST
SALT LAKE CITY, UT 84102
Phone: (801) 575-8800
Fax: (801) 531-9850
WWW: www.vcbo.com

DFCM CODE COMPLIANCE STAMP

# Stromberg Student Activity Center

## Stromberg Addition - BID SET

Weber State University
3750 Harrison Blvd. Ogden, UT 84408

| Rev # | Date | Description |
|---|---|---|

Job # 4317
CAD File
Drawn PB Checked AM
Date 10.03.2012
Owner #

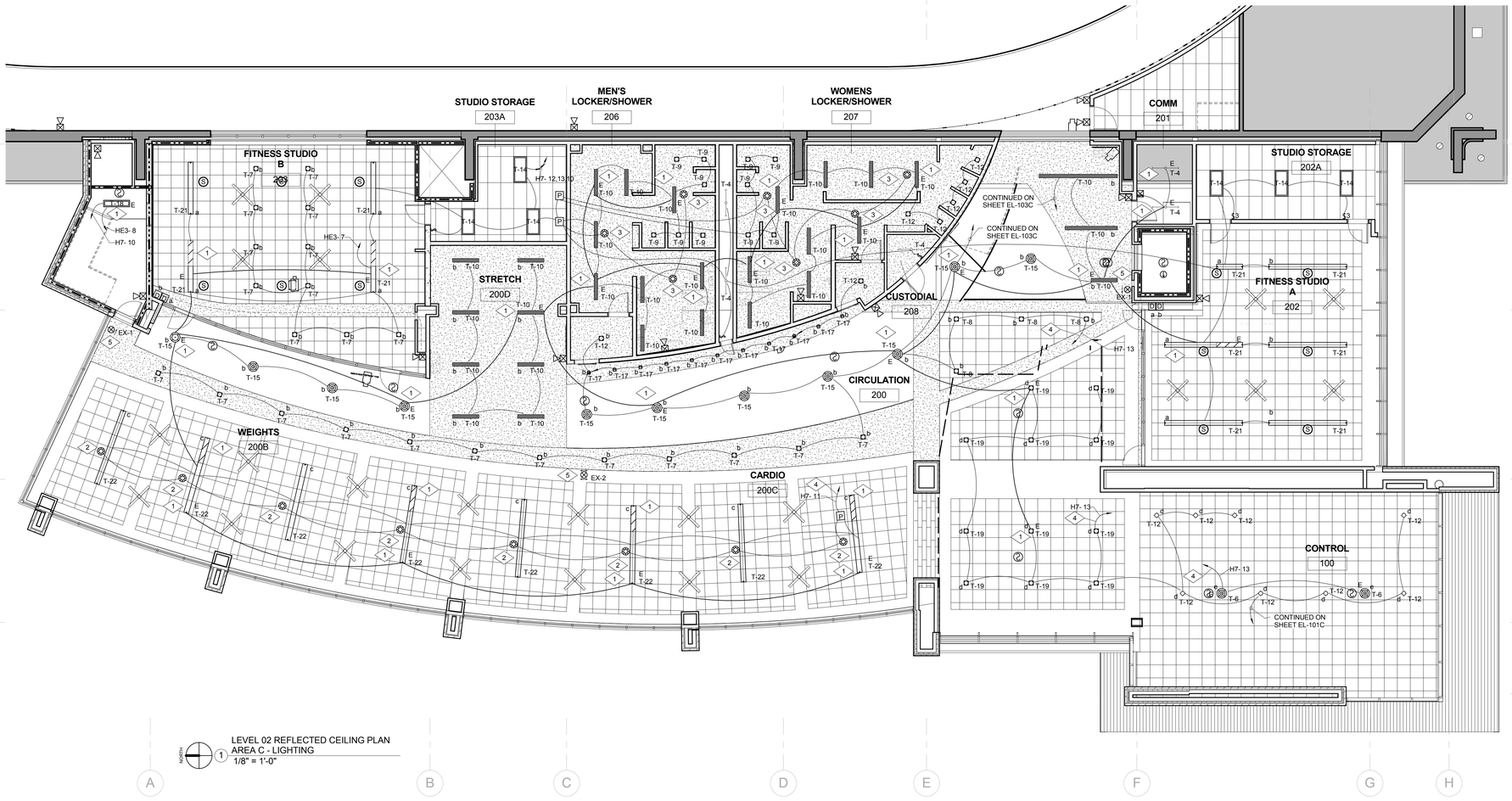
LEVEL 02 REFLECTED CEILING PLAN AREA B - LIGHTING

EL-102B

10/3/2012 8:49:56 AM

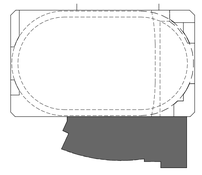
## REFERENCE NOTES:

1. TIE EMERGENCY LIGHT TO A BODINE TRANSFER SWITCH (CAT. #GTD OR APPROVED EQUAL) SUCH THAT WHEN COMMERCIAL POWER FAILS THE EMERGENCY LIGHTS COME ON AUTOMATICALLY REGARDLESS OF POSITION OF LIGHT SWITCHES. PROVIDE UNSWITCHED POWER TO TRANSFER SWITCH. REFER TO MANUFACTURER WIRING DIAGRAM FOR MORE INFORMATION. NORMALLY THESE LIGHT FIXTURES ARE CONTROLLED BY LIGHT SWITCHES.
2. FURNISH AND INSTALL A PIR CEILING MOUNTED MOTION SENSOR WITH POWER PACK AND HIGH DENSITY LENS IN THE APPROXIMATE LOCATION SHOWN. WATTSTOPPER TYPE LMPC-100-1. TIE THE LIGHT FIXTURES TO THE WALL SWITCH THROUGH THE POWER PACK. TIE THE MOTION SENSOR TO POWER PACK. REFER TO MANUFACTURER WIRING DIAGRAM FOR MORE INFORMATION. PROVIDE CONDUIT AND CONDUCTORS FOR A COMPLETE INSTALLATION.
3. FURNISH AND INSTALL AN ULTRASONIC CEILING MOUNTED MOTION SENSOR WITH POWER PACK IN THE APPROXIMATE LOCATION SHOWN. WATTSTOPPER TYPE LMUC-100. TIE THE LIGHT FIXTURES TO THE WALL SWITCH THROUGH THE POWER PACK. TIE THE MOTION SENSOR TO POWER PACK. REFER TO MANUFACTURER WIRING DIAGRAM FOR MORE INFORMATION. PROVIDE CONDUIT AND CONDUCTORS FOR A COMPLETE INSTALLATION.
4. TIE LIGHT FIXTURES TO THE DESIGNATED CIRCUIT THROUGH THE LIGHT SWITCH AT THE RECEPTION DESK ON THE LOWER LEVEL.
5. TIE EXIT SIGN TO THE NEAREST UNSWITCHED EMERGENCY LIGHTING CIRCUIT.




1 LEVEL 02 REFLECTED CEILING PLAN AREA C - LIGHTING
1/8" = 1'-0"

KEY PLAN




VCBO
ARCHITECTURE
VALENTINER CRANE BRUNJES ONYON

VCBO ARCHITECTURE
524 SOUTH 600 EAST
SALT LAKE CITY, UT 84102
Phone: (801) 575-8800
Fax: (801) 531-9850
WWW: www.vcbo.com


DFCM CODE COMPLIANCE STAMP

# Stromberg Student Activity Center

Stromberg Addition - BID SET
Weber State University
3750 Harrison Blvd. Ogden, UT 84408

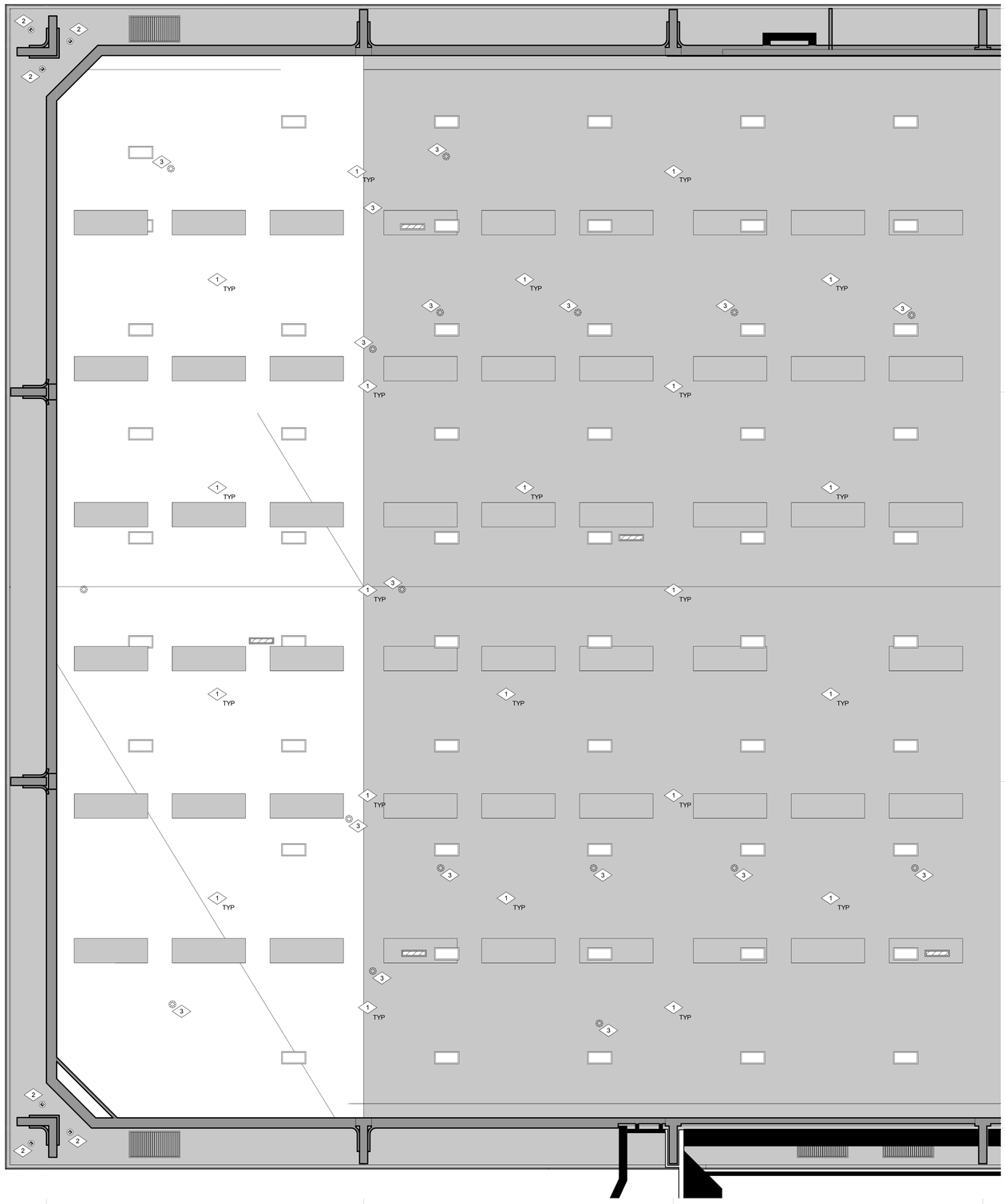
| Rev # | Date | Description |
|---|---|---|

Job # 4317
CAD File
Drawn PB Checked AM
Date 10.03.2012
Owner #

LEVEL 02 REFLECTED CEILING PLAN AREA C - LIGHTING

EL-102C

10/3/2012 8:49:59 AM

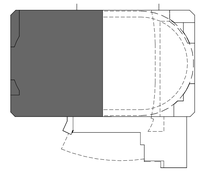



LEVEL 03 REFLECTED CEILING PLAN
AREA A - LIGHTING
1/8" = 1'-0"

## REFERENCE NOTES:

1 EXISTING HIGH BAY LIGHT FIXTURE ARE TO REMAIN. MAKE ANY MODIFICATIONS REQUIRED TO MAINTAIN CIRCUIT INTEGRITY.
2 EXISTING UNDER CANOPY LIGHT FIXTURES ARE TO REMAIN. MAKE ANY MODIFICATIONS REQUIRED TO MAINTAIN CIRCUIT INTEGRITY.
3 EXISTING DEVICES ARE TO REMAIN. MAKE ANY MODIFICATIONS REQUIRED TO MAINTAIN CIRCUIT INTEGRITY TO THESE DEVICES. PROVIDE CONDUIT AND CONDUCTORS AS NEEDED.

KEY PLAN



VCBO
ARCHITECTURE
VALENTINER
CRANE
BRUNJES
ONYON

#172577
10-03-12

VCBO ARCHITECTURE
524 SOUTH 600 EAST
SALT LAKE CITY, UT 84102
Phone: (801) 575-8800
Fax: (801) 531-9850
WWW: www.vcbo.com

DFCM CODE COMPLIANCE STAMP

# Stromberg Student Activity Center

Stromberg Addition - BID SET
Weber State University
3750 Harrison Blvd. Ogden, UT 84408

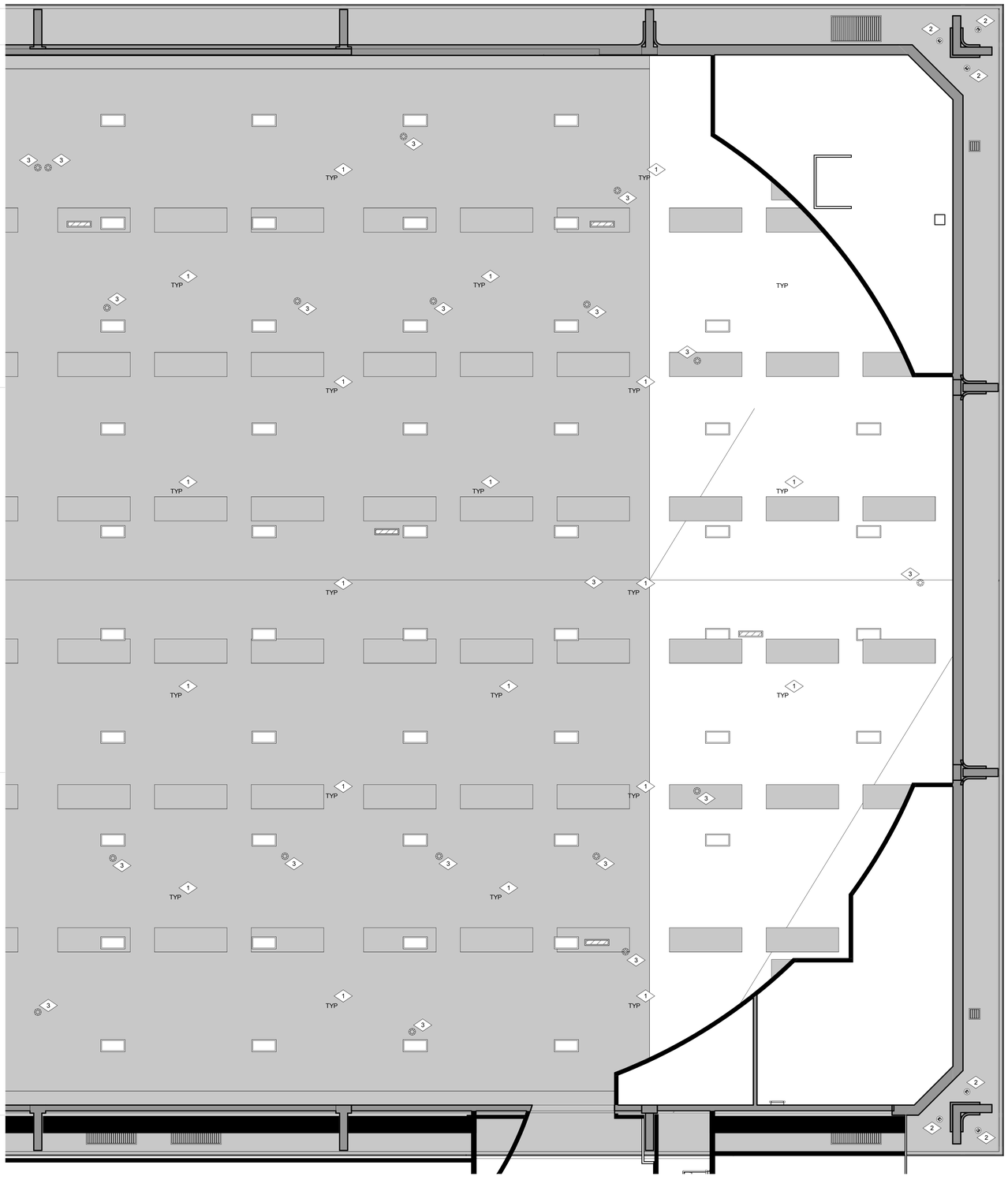
| Rev # | Date | Description |
|---|---|---|

Job # 4317
CAD File
Drawn PB Checked AM
Date 10.03.2012
Owner #

LEVEL 03 REFLECTED CEILING PLAN AREA A - LIGHTING

EL-103A

10/3/2012 8:50:00 AM




LEVEL 03 REFLECTED CEILING PLAN
AREA B - LIGHTING
1/8" = 1'-0"

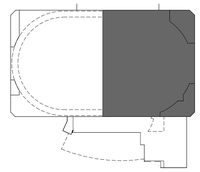
## REFERENCE NOTES:

1 EXISTING HIGH BAY LIGHT FIXTURE ARE TO REMAIN. MAKE ANY MODIFICATIONS REQUIRED TO MAINTAIN CIRCUIT INTEGRITY.

2 EXISTING UNDER CANOPY LIGHT FIXTURES ARE TO REMAIN. MAKE ANY MODIFICATIONS REQUIRED TO MAINTAIN CIRCUIT INTEGRITY.

3 EXISTING DEVICES ARE TO REMAIN. MAKE ANY MODIFICATIONS REQUIRED TO MAINTAIN CIRCUIT INTEGRITY TO THESE DEVICES. PROVIDE CONDUIT AND CONDUCTORS AS NEEDED.

KEY PLAN



VCBO
ARCHITECTURE
VALENTINER
CRANE
BRUNJES
ONYON

#172577
10-03-12

VCBO ARCHITECTURE
524 SOUTH 600 EAST
SALT LAKE CITY, UT 84102
Phone: (801) 575-8800
Fax: (801) 531-9850
WWW: www.vcbo.com

DFCM CODE COMPLIANCE STAMP

# Stromberg Student Activity Center

## Stromberg Addition - BID SET

Weber State University
3750 Harrison Blvd. Ogden, UT 84408

| Rev # | Date | Description |
|---|---|---|

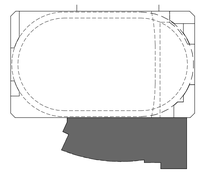
Job # 4317
CAD File
Drawn PB Checked AM
Date 10.03.2012
Owner #

LEVEL 03 REFLECTED CEILING PLAN AREA B - LIGHTING

EL-103B

10/3/2012 8:50:01 AM

KEY PLAN



LEVEL 03 REFLECTED CEILING PLAN
AREA C - LIGHTING
1/8" = 1'-0"

10/3/2012 8:50:02 AM


VCBO
ARCHITECTURE
VALENTINER
CRANE
BRUNJES
ONYON

#172577
10-03-12

VCBO ARCHITECTURE
524 SOUTH 600 EAST
SALT LAKE CITY, UT 84102
Phone: (801) 575-8800
Fax: (801) 531-9850
WWW: www.vcbo.com


DFCM CODE COMPLIANCE STAMP

# Stromberg Student Activity Center
## Stromberg Addition - BID SET
Weber State University
3750 Harrison Blvd. Ogden, UT 84408

| Rev # | Date | Description |
|---|---|---|

Job # 4317
CAD File
Drawn PB Checked AM
Date 10.03.2012
Owner #

LEVEL 03 REFLECTED CEILING PLAN - LIGHTING

EL-103C