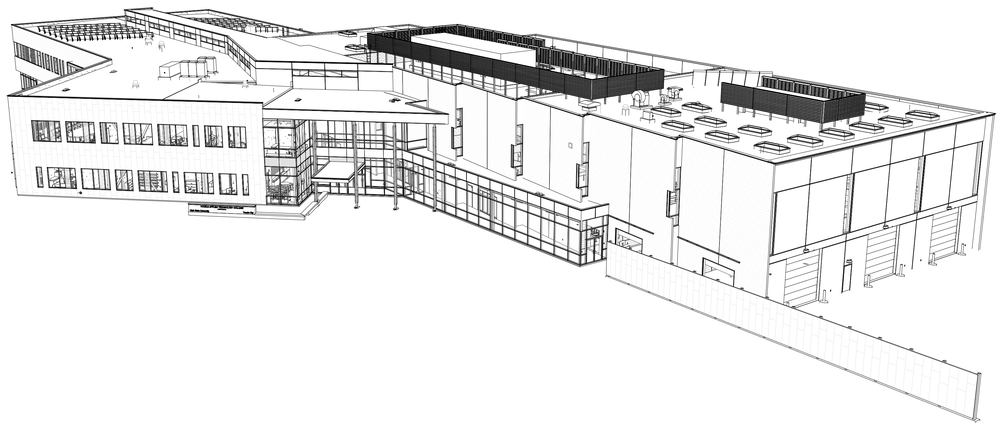
TOOELE APPLIED TECHNOLOGY COLLEGE - NEW BUILDING

100% Construction Documents
1/20/2012

DFCM Project No. 11064280



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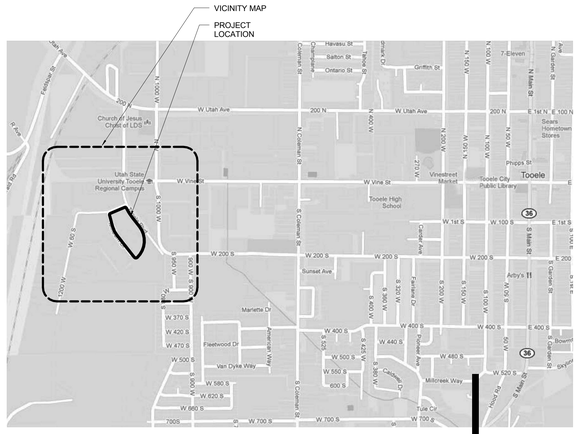

TOOELE MAP

VICINITY MAP

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project:

TOOELE APPLIED TECHNOLOGY COLLEGE - NEW BUILDING

88 South Tooele Blvd
Tooele, UT 84074

DFCM PROJECT #11064280

project#: 11.0420
date: 1/20/2012

revisions :

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Cover Sheet

sheet:

GI001

100% Construction Documents

ABREVIATIONS

A	
A/C	Air Conditioning
AB	Anchor Bolt
ABV	Above
AC or ACOUS	Acoustical
ACC	Access
ACFL	Access Floor
ACPL	Acoustical Plaster
ACT	Acoustical Tile
ACU	Air Conditioning Unit
AD	Access Door
AD	Area Drain
ADD	Addendum
ADDL	Additional
ADH	Adhesive
ADJ	Adjacent
ADJT	Adjustable
AFF	Above Finish Floor
AGG	Aggregate
AHU	Air Handling Unit
ALLOW	Allowance
ALT	Alternate
ALUM	Aluminum
ANC	Anchor, Anchorage
ANG	Angle
ANOD	Anodized
AP or AC PNL	Access Panel
APC	Architectural Precast Concrete
APPROX	Approximate
APT	Apartment
ARCH	Architect(ural)
ASC	Above Suspended Ceiling
ASPH	Asphalt
AUTO	Automatic
AVE	Avenue
AVG	Average
AWT	Acoustical Wall Treatment
B	
B&B	Balled & Bagged
BAL	Balance
BBD	Bulletin Board
BC	Back of Curb
BD	Board
BF	Bottom Face
BFE	Bottom Footing Elevation
BG	Bumper Guard
BITUM	Bituminous
BJT	Bed Joint
BL	Building Line
BLDG	Building
BLK	Block
BLKG	Blocking
BLR	Boiler
BLW	Below
BM	Beam
BM	Bench Mark
BO	By Others/Owner
BOC	Bottom of Curb
BOS	Bottom Of Steel
BOT	Bottom
BPL	Bearing Plate
BR	Bedroom
BRG	Bearing
BRIDG	Bridging
BRK	Brick
BRKT	Bracket
BRZ	Bronze
BS	Both Sides
BSMT	Basement
BTWN	Between
BUR	Built-up Roofing
BVL	Bevel(ed)
BW	Both Ways
BYND	Beyond
C	
C	Celsius, Degree
C	Channel
C to C	Center to Center
C of O	Certificate Of Occupancy
CAB	Cabinet
CANTL	Cantilever
CB	Catch Basin
CCTV	Closed Circuit Television
CEM	Cement
CER	Ceramic
CF	Cubic Foot
CFM	Cubic Feet Per Minute
CG	Corner Guard
CH	Coat Hook
CHAM	Chamfer
CHBD	Chalkboard
CHEM	Chemical, Chemistry
CI	Cast Iron
CI	Cubic Inch
CIP	Cast Iron Pipe
CIPC	Cast-In-Place Concrete
CIR	Circle
CJ	Control Joint
CKT	Circuit
CL	Center Line
CLG	Ceiling
CLG HT	Ceiling Height
CLL	Contract Limit Line
CLO	Closet
CLR	Clear(ance)
CLRM	Classroom
CM	Centimeter(s)
CM	Construction Manager
CMP	Corrugated Metal Pipe
CMU	Conc. Masonry Unit
CND	Conduit
CO	Change Order
CO	Clean Out
COL	Column
COMM	Communication Outlet
CONC	Concrete
COND	Condenser or Condensate
CONF	Conference
CONN	Connect(ed)(ion)
CONST	Construction
CONT	Continuous
CONTR	Contractor
COORD	Coordinate
CORR	Corridor
CORR	Corrugated
CPT	Carpet(ed)
CRS	Course(s)
CRT	Computer Terminal
CSMT	Casement
CST	Cast Stone
CSWK	Casework
CT	Ceramic Tile
CT	Cooling Tower
CTR	Center
CUH	Cabinet Unit Heater
CW	Cold Water
CY	Cubic Yard
CYL	Cylinder
D	
D	Depth
DB	Decibel
DBL	Double
DBL ACT	Double Acting
DC	Direct Current
DEG	Degree
DEMO	Demolish, Demolition
DEPT	Department
DF	Drinking Fountain
DH	Double Hung
DIA	Diameter
DIAG	Diagonal
DIFF	Diffuser
DIM	Dimension
DIR	Direction, Director
DISP	Dispenser
DIST	Distribution
DIV	Division
DK	Dark
DL	Dead Load
DMT	Demountable
DN	Down
DO	Ditto
DO	Door Opening
DP	Dampproofing
DP	Deep
DR	Doctor
DR	Door
DS	Downspout
DSGN	Design
DTL	Detail
DUP	Duplicate
DW	Dishwasher
DWG	Drawing
DWL(S)	Dowel(s)
DWR	Drawer

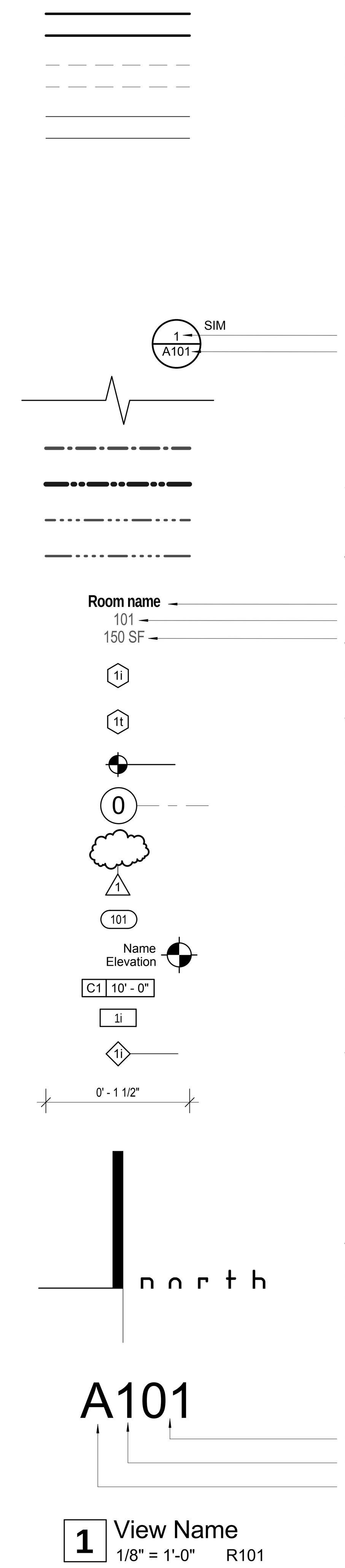
E	
E	East
EA	Each
EE	Each End
EF	Each Face
EF	Exhaust Fan
EG	Exhaust Grille
EIFS	Exterior Insulation & Finish System
EJT	Expansion Joint
EL or ELEV	Elevation
ELAS	Elastomeric
ELEC	Electrical
ELEV	Elevator
EMER	Emergency
ENCL	Enclosure
ENGR	Engineer
ENTR	Entrance
EQ	Equal
EQUIP	Equipment
ESC	Escalator
EST	Estimate
ESTB	Establish
EW	Each Way
EWC	Electric Water Cooler
EXH	Exhaust
EXIST'G	Existing
EXP	Expansion
EXT	Exterior
EXTRU	Extrusion
F	
F	Fahrenheit
FA	Fire Alarm
FAS	Fasten, Fastener
FB	Face Brick
FBO	Furnished By Others
FCO	Floor Cleanout
FD	Floor Drain
FDTN	Foundation
FE	Fire Extinguisher
FEC	Fire Extinguisher Cabinet
FF	Finished Floor
FF&E	Fixtures, Furniture & Equipment
FFE	Finished Floor Elevation
FFL	Finished Floor Line
FH	Fire Hydrant/Hose
FHC	Fire Hose Cabinet
FHMS	Flat Head Machine Screws
FHWS	Flat Head Wood Screws
FIN	Finish
FIX	Fixture
FL	Flow Line
FLASH	Flashing
FLR	Floor
FLUOR	Fluorescent
FOC	Face of Concrete
FOF	Face Of Finish
FOM	Face of Masonry
FOS	Face of Stud
FOW	Face of Wall
FP	Fireproof
FR	Fire Rated, Fire Retardant
FRM	Frame
FS	Full Size
FSP	Fire Stand Pipe
FT'	Foot, Feet
FTG	Footing
FUR	Furring
FURN	Furnish
FUT	Future
FV	Field Verify
FVC	Fire Valve Cabinet
G	
G	Gas
GA	Gage or Gauge
GAL	Gallon
GALV	Galvanized
GB	Grab Bar
GC	General Contract(or)
GEN	Generator
GFRC	Glass Fiber Reinforced Concrete
GFRG	Glass Fiber Reinforced Gypsum
GL	Glass
GLU LAM	Glue Laminated
GR	Grade
GR BM	Grade Beam
GRND	Ground
GSF	Gross Square Feet
GU	Gutter
GWB	Gypsum Wallboard
GYP BD	Gypsum Wallboard
GYP	Gypsum
H	
H	High
H PT	High Point
HB	Hose Bibb
HC	Hollow Core
HD	Head
HDBD	Hardboard
HDR	Header
HDWR	Hardware
HDWD	Hardwood
HJT	Head Joint
HM	Hollow Metal
HNDRL	Handrail
HORIZ	Horizontal
HP	Horsepower
HR	Hour
HT	Height
HTG	Heating
HTR	Heater
HVAC	Heating, Ventilating, Air Conditioning
HW	Hot Water
HWH	Hot Water Heater
HWY	Highway
HYD	Hydrant
HZ	Hertz
I	
ID	Inside Diameter
IF	Inside Face
ILLUM	Illumination
IN"	Inches
INC	Include(d) (ing)
INFO	Information
INSUL	Insulation
INSUL PNL	Insulated Panel
INT	Interior
INVT	Invert
INVT EL	Invert Elevation
J	
JAN	Janitor
JB	Junction Box
JC	Janitor's Closet
JST	Joist
JST BR	Joist Bearing
JT	Joint
K	
K	Kips
KD	Knocked Down
KIT	Kitchen
KO	Knockout
KPL	Kick Plate
KVA	Kilovolt Amps
KW	Kilowatts
L	
L	Length
LAB	Laboratory
LAM	Laminated
LAV	Lavatory
LG	Large
LH	Left Hand
LIN	Linear
LL	Live Load
LLH	Long Leg Horizontal
LLV	Long Leg Vertical
LOC	Locate, Location
LONG	Longitudinal
LP	Low Point
LT	Light
LTG	Lighting
LTL	Lintel
LVR	Louver
LWT	Lightweight
LWT CONC	Lightweight Concrete

M	
M	Meter
MACH	Machine
MAINT	Maintenance
MAN	Manual
MANF	Manufacturer
MAS	Masonry
MATL	Material
MAX	Maximum
MBR	Member
MDF	Medium Density Fiberboard
MECH	Mechanical
MED	Medium
MEMB	Membrane
MEZZ	Mezzanine
MFR	Manufacturer
MH	Manhole
MIN	Minimum
MIN	Minute
MIR	Mirror
MISC	Miscellaneous
MIX	Mixture
MLDG	Molding
MLWK	Millwork
MM	Millimeter
MO	Masonry Opening
MOD	Modified, Modular
MS	Machine Screw
MTD	Mounted
MTL	Metal
MTR	Mortar
MULL	Mullion
N	
N	North
NA	Not Applicable
NAT	Natural
NE	Northeast
NIC	Not In Contract
NO, Num, #	Number
NOM	Nominal
NORM	Normal
NRC	Noise Reduction Coefficient
NTS	Not to Scale
NW	Northwest
O	
OA	Overall
OB	Obscure
OB GL	Obscure Glass
OC	On Center
OD	Outside Diameter
OFF	Office
OFOI	Owner Furnished Owner Installed
OH	Overhead
OPNG	Opening
OPP	Opposite
ORD	Overflow Roof Drain
ORIG	Original
OTO	Out to Out
OZ	Ounce
P	
PC	Precast Concrete
PC	Point of Curve
PCF	Pounds per Cubic Foot
PERF	Perforated
PERP	Perpendicular
PI	Point of Intersection
PL	Plate
PL	Property Line
PLAM	Plastic Laminate
PLAS	Plaster
PLUMB	Plumbing
PLYWD	Plywood
PNL	Panel
PR	Pair
PREFAB	Prefabricated
PRELIM	Preliminary
PROJ	Projection
PROP	Property
PSF	Pounds per Square Foot
PSI	Pounds per Square Inch
PT	Paint
PT	Point, Point of Tangent
PTD	Painted
PTD	Paper Towel Dispenser
PTN	Partition
PVC	Polyvinyl Chloride
PVMT	Pavement
PWD	Plywood
Q	
QT	Quarry Tile
QT	Quart
QTY	Quantity
QTR	Quarter
QUAL	Quality
R	
R, RAD	Radius
R	Riser
RA	Return Air
RB	Rubber Base
RCP	Reinforced Concrete Pipe
RD	Roof Drain
RE or REF	Reference
REBAR	Reinforcing Bar
REC	Recessed
RECP	Receptacle
RECT	Rectangular
REFR	Refrigerator
REG	Regular
REINF	Reinforcing (ed)
REQD	Required
RET	Return
REV	Revision
RFG	Roofing
RH	Right Hand
RLF	Relief
RM	Room
RND	Round
RO	Rough Opening
ROW	Right-of-Way
RR	Railroad
S	
S	South
SA	Supply Air
SAN	Sanitary
SC	Solid Core
SCD JT	Scored Joint
SCHED	Schedule
SE	Southeast
SECT	Section
SHT	Sheet
SIM	Similar
SPEC	Specification
SPKR	Speaker
SQ	Square
SQ FT or SF	Square Foot
ST STL or SS	Stainless Steel
STAG	Staggered
STC	Sound Transmission Coefficient
STD	Standard
STL	Steel
STOR	Storage
STRUCT	Structural
STRUCT STL	Structural Steel
SUSP	Suspended
SW	Southwest
SW	Switch
SYS	System

T	
T	Tread
T&G	Tongue and Groove
TB	Towel Bar
TEL	Telephone
TEMP	Temperature
TEMP	Temporary
TEMP GL	Tempered GlassL
TEX FIN	Textured Finish
THERM	Thermal
THK	Thick(ness)
TKBD	Tackboard
TOB	Top of Beam
TOC	Top of Curb (Concrete)
TOD	Top of Deck
TOF	Top of Footing
TOP	Top of Pier
TOPAR	Top of Parapet
TOS	Top of Steel
TOW	Top of Wall
TPD	Toilet Paper Dispenser
TR	Transom
TV	Television
TYP	Typical
U	
UL	Underwriter's Laboratories
UNFIN	Unfinished
UNO	Unless Noted Otherwise
UR	Urinal
USG	United States Gage
UTIL	Utility
V	
V	Volt
VAL	Value
VAR	Varnish
VB	Vapor Barrier
VCT	Vinyl Composition Tile
VEN	Veneer
VENT	Ventilating
VERT	Vertical
VEST	Vestibule
VIF	Verify In Field
VIT	Vitreous
VOL	Volume
VWC	Vinyl Wall Covering
W	
W	West
W	Wide, Width
W/	With
W/O	Without
WC	Water Closet
WD	Wood
WDW	Window
WF	Wide Flange
WG	Wired Glass
WH	Water Heater
WI	Wrought Iron
WPT	Working Point
WSCT	Wainscot
WT	Weight
WTW	Wall to Wall
WWF	Welded Wire Fabric
Y	
YD	Yard
SYMBOLS:	
&	AND
@	AT
#	POUND OR NUMBER
Ø	DIAMETER OR ROUND

ARCHITECTURAL SYMBOLS

(SEE RESPECTIVE DISCIPLINES FOR SYMBOLS)



- NEW WALL
- EXISTING WALL TO BE REMOVED
- EXISTING WALL TO REMAIN
- BUILDING/DETAIL SECTION
- DETAIL REFERENCE
- LOCATION ON SHEET
- SHEET NUMBER
- BREAK LINE
- 1 HOUR - FIRE RATED ASSEMBLY
- 2 HOUR - FIRE RATED ASSEMBLY
- 3 HOUR - FIRE RATED ASSEMBLY
- 4 HOUR - FIRE RATED ASSEMBLY
- ROOM NAME
- ROOM NUMBER
- AREA
- INTERIOR PARTITION TYPE SYMBOL
- WINDOW TYPE SYMBOL
- BENCHMARK/SPOT ELEV. SYMBOL
- COLUMN LINE/GRID INDICATOR
- REVISION CLOUD
- REVISION INDICATOR
- DOOR TAG
- FLOOR LEVEL SYMBOL
- CEILING HEIGHT SYMBOL
- KEYNOTE SYMBOL
- WALL TYPE SYMBOL
- DIMENSION
- PROJECT NORTH ARROW
- FOR TRUE NORTH SEE CIVIL DRAWINGS
- SHEET NUMBER SEQUENCE
- SHEET TYPE
- DISCIPLINE

1 View Name
1/8" = 1'-0" R101

GENERAL

GI001	Cover Sheet
GI002	Sheet Index & Gen'l Project Information
GI003	Code Plan
GI004	Special Inspections - Check list
GI005	Signage

CIVIL

CV-100	Cover Sheet
CD-101	Demolition Plan
CS-101	Site Plan
CS-102	Striping Plan
CG-101	Grading & Drainage Plan
CU-101	Utility Plan
CD-501	Construction Details
CD-502	Construction Details
CW-101	Demolition SWPP Plan
CW-102	SWPP Plan Grading Phase
CW-103	SWPP Plan Utility Phase

LANDSCAPE

L101	Dimension Plan
L102	Dimension Plan
L201	Landscape Plan
L202	Landscape Plan
L301	Irrigation Plan
L302	Irrigation Plan
D-1	Planting Details
D-2	Site Details
D-3	Irrigation Details
D-4	Irrigation Details

ARCHITECTURAL

AS100	Architectural Site Plan
AS501	Site Details
AS502	Site Details
AE100	Level 1 Overall Plan
AE100A	Lvl 1 Slab Edge Plan
AE101	Lvl 1 Floor Plan Area '1'
AE102	Lvl 1 Floor Plan Area '2'
AE103	Lvl 1 Floor Plan Area '3'
AE111	Lvl 1 Wall Type/Finish Plan Area '1'
AE112	Lvl 1 Wall Type/Finish Plan Area '2'
AE113	Lvl 1 Wall Type/Finish Plan Area '3'
AE120	Level 2 Overall Plan
AE120A	Lvl 2 Slab Edge Plan
AE121	Lvl 2 Floor Plan Area '1'
AE122	Lvl 2 Floor Plan Area '2'
AE123	Lvl 2 Floor Plan Area '3'
AE131	Lvl 2 Wall Type/Finish Plan Area '1'
AE132	Lvl 2 Wall Type/Finish Plan Area '2'
AE133	Lvl 2 Wall Type/Finish Plan Area '3'
AE140	Roof Plan
AE151	Lvl 1 Reflected Ceiling Plan 1
AE152	Lvl 1 Reflected Ceiling Plan 2
AE153	Lvl 1 Reflected Ceiling Plan 3
AE161	Lvl 2 Reflected Ceiling Plan 1
AE162	Lvl 2 Reflected Ceiling Plan 2
AE163	Lvl 2 Reflected Ceiling Plan 3
AE171	Lvl 1 Furniture Plan Area '1'
AE172	Lvl 1 Furniture Plan Area '2'
AE173	Lvl 1 Furniture Plan Area '3'
AE181	Lvl 2 Furniture Plan Area '1'
AE182	Lvl 2 Furniture Plan Area '2'
AE183	Lvl 2 Furniture Plan Area '3'
AE201	Elevations
AE202	Elevations
AE210	Interior Elevations
AE211	Interior Elevations
AE212	Interior Elevations
AE213	Interior Elevations
AE214	Interior Elevations
AE215	Interior Elevations
AE216	Interior Elevations
AE217	Interior Elevations
AE218	Interior Elevations
AE219	Interior Elevations
AE220	Interior Elevations
AE221	Interior Elevations
AE301	Building Sections
AE302	Wall Sections
AE303	Wall Sections
AE304	Wall Sections
AE305	Wall Sections
AE306	Wall Sections
AE307	Wall Sections
AE401	Lvl 1 Enlarged Floor Plans
AE402	Lvl 1 Enlarged Floor Plans
AE403	Lvl 2 Enlarged Floor Plans
AE410	Tilt-up Plan & Details
AE411	Tilt-up Panel Elevations & Details
AE412	Tilt-up Panel Elevations
AE413	Tilt-up Panel Elevations
AE414	Tilt-up Plan & Panel Elevations
AE501	Exterior Details
AE502	Exterior Details
AE503	Exterior Details
AE504	Exterior Details
AE505	Exterior Details
AE506	Exterior Details
AE601	Door & Window Schedules
AE602	Window Elevations
AE603	Window Elevations
AE604	Window Elevations
AE605	Window Elevations
AE606	Door & Frame Types
AE611	Finish Schedule
AE621	Wall Types
AE701	Enlarged Stair/Elevator Plans/Sections
AE702	Enlarged Stair Plan/Section
AE703	Enlarged Stair Plan/Section
AE801	Details
AE804	Ceiling Details
AE805	Ceiling Details
AE806	Ceiling Details
AE901	Interior Details
AE910	Casework Details
AE911	Casework Details
AE912	Casework Details

STRUCTURAL

SE001	General Structural Notes
SE002	General Structural Notes
SB100	Footing and Foundation Overall Plan
SB101	Footing and Foundation Partial Plan 1
SB102	Footing and Foundation Partial Plan 2
SB103	Footing and Foundation Partial Plan 3
SB501	Typical Footing Details
SB502	Footing & Foundation Details
SB503	Footing & Foundation Details
SB504	Typ Tilt-up Footing & Foundation Details
SB505	Tilt-up Panel Details
SB601	Structural Schedules
SB602	Structural Schedules
SF100	2nd Floor Framing Overall Plan
SF101	2nd Floor Framing Partial Plan 1
SF102	2nd Floor Framing Partial Plan 2
SF103	2nd Floor Framing Partial Plan 3
SF110	Lower Roof Framing Overall Plan
SF111	Lower Roof Framing Partial Plan 1
SF112	Lower Roof Framing Partial Plan 2
SF113	Lower Roof Framing Partial Plan 3
SF120	Upper Roof Framing Overall Plan
SF121	Upper Roof Framing Partial Plan 1
SF122	Upper Roof Framing Partial Plan 2
SF123	Upper Roof Framing Partial Plan 3
SF201	Tilt-up Panel Elevations
SF202	Tilt-up Panel Elevations
SF203	Tilt-up Panel Elevations
SF211	Braced Frame Elevations
SF212	Braced Frame Elevations
SF213	Braced Frame Details
SF214	Braced Frame Details
SF401	Stair Framing Plans
SF501	Typical Steel Framing Details
SF502	Typical Floor Framing Details
SF503	Floor Framing Details
SF504	Floor Framing Details
SF511	Typical Roof Framing Details
SF512	Roof Framing Details
SF513	Roof Framing Details
SF514	Roof Framing Details
SF515	Roof Framing Details
SF601	Structural Schedules

MECHANICAL

ME001	Mechanical Symbol Legend
ME002	General Notes
ME501	Mechanical Details
ME502	Mechanical Details
ME503	Mechanical Details
ME504	Mechanical Details
ME505	Mechanical Details
ME506	Mechanical Details
ME507	Mechanical Details
ME601	Mechanical Schedules
ME602	Mechanical Schedules
ME603	Mechanical Schedules
ME604	Mechanical Schedules
ME605	Mechanical Schematic Diagrams
MH111	Level 1 Mechanical Plan 1
MH112	Level 1 Mechanical Plan 2
MH113	Level 1 Mechanical Plan 3
MH121	Level 2 Mechanical Plan 1
MH122	Level 2 Mechanical Plan 2
MH123	Level 2 Mechanical Plan 3
MH130	Roof Mechanical Plan
MH401	Large Scale Mechanical Plan
MP111	Level 1 Mechanical Piping Plan 1
MP112	Level 1 Mechanical Piping Plan 2
MP113	Level 1 Mechanical Piping Plan 3
MP121	Level 2 Mechanical Piping Plan 1
MP122	Level 2 Mechanical Piping Plan 2
MP123	Level 2 Mechanical Piping Plan 3

PLUMBING

PE501	Plumbing Details
PE502	Plumbing Details
PE601	Plumbing Schedules
PL101	Below Grade Plumbing Plan 1
PL102	Below Grade Plumbing Plan 2
PL103	Below Grade Plumbing Plan 3
PL111	Level 1 Plumbing Plan 1
PL112	Level 1 Plumbing Plan 2
PL113	Level 1 Plumbing Plan 3
PL121	Level 2 Plumbing Plan 1
PL122	Level 2 Plumbing Plan 2
PL123	Level 2 Plumbing Plan 3
PL130	Roof Plumbing Plan
PL401	Large Scale Plumbing Plans
PL402	Large Scale Plumbing Plans

ELECTRICAL

EE001	Sheet Index, Abbreviations and Notes
EE002	Symbol Legen
EE501	Details
EE502	Pad Vault Details
EE701	Typical Details
ES101	Electrical Site Plan
EP111	Level 1 Power Plan - Area '1'
EP112	Level 1 Power Plan - Area '2'
EP113	Level 1 Power Plan - Area '3'
EP121	Level 2 Power Plan - Area '1'
EP122	Level 2 Power Plan - Area '2'
EP123	Level 2 Power Plan - Area '3'
EP130	Roof Power Plan
EP401	Enlarged Bistro Power Plan
EP402	Enlarged Lab Power Plan
EP403	Enlarged Lab Power Plan
EP501	Power Details
EP601	One-Line Diagram
EP602	Grounding Riser Diagram
EP603	Equipment Schedule
EP604	Equipment Schedule
EP605	Equipment Schedule
EP606	Equipment Schedule
EP607	Panel Schedule
EP608	Panel Schedule
EP609	Panel Schedule
EL111	Level 1 Lighting Plan - Area '1'
EL112	Level 1 Lighting Plan - Area '2'
EL113	Level 1 Lighting Plan - Area '3'
EL121	Level 2 Lighting Plan - Area '1'
EL122	Level 2 Lighting Plan - Area '2'
EL123	Level 2 Lighting Plan - Area '3'
EL601	Fixture Schedule
ET111	Level 1 Telecom Plan - Area '1'
ET112	Level 1 Telecom Plan - Area '2'
ET113	Level 1 Telecom Plan - Area '3'
ET121	Level 2 Telecom Plan - Area '1'
ET122	Level 2 Telecom Plan - Area '2'
ET123	Level 2 Telecom Plan - Area '3'
ET301	Telecom Rough-In Sections
ET302	Telecom Rough-In Sections
ET601	Telecom Rough-In Details
EY111	Level 1 Auxiliary Plan - Area '1'
EY112	Level 1 Auxiliary Plan - Area '2'
EY113	Level 1 Auxiliary Plan - Area '3'
EY121	Level 2 Auxiliary Plan - Area '1'
EY122	Level 2 Auxiliary Plan - Area '2'
EY123	Level 2 Auxiliary Plan - Area '3'
EJ111	Level 1 Audio - Video Plan - Area '1'
EJ112	Level 1 Audio - Video Plan - Area '2'
EJ113	Level 1 Audio - Video Plan - Area '3'
EJ121	Level 2 Audio - Video Plan - Area '1'
EJ122	Level 2 Audio - Video Plan - Area '2'
EJ123	Level 2 Audio - Video Plan - Area '3'
EJ601	Audio - Video Rough-In Details
FA111	Level 1 Fire Alarm Plan - Area '1'
FA112	Level 1 Fire Alarm Plan - Area '2'
FA113	Level 1 Fire Alarm Plan - Area '3'
FA121	Level 2 Fire Alarm Plan - Area '1'
FA122	Level 2 Fire Alarm Plan - Area '2'
FA123	Level 2 Fire Alarm Plan - Area '3'
FA601	Fire Alarm Riser
TA001	Audio - Video List and Notes
TA002	Audio - Video Schedules
TA501	Audio - Video Details
TA601	Audio - Video Diagrams
TT001	Telecom Schedules and Notes
TT501	Telecom Details
TT601	Telecom Diagrams

KITCHEN

FS101	Food Service Equipment Plan
FS102	Food Service Equipment Building Requirement Plan
FS103	Food Service Equipment Plumbing Requirement Plan
FS104	Food Service Equipment Electrical Requirement Plan

MATERIAL LEGEND

02 SITE CONSTRUCTION
- EARTH (existing)
- EARTH (backfill)
- DRAINAGE FILL

03 CONCRETE
- CAST-IN-PLACE CONCRETE
- PRECAST CONCRETE

04 MASONRY
- BRICK
- CONCRETE MASONRY UNITS
- GLASS BLOCK
- STONE
- CAST STONE
- GROUT

05 METALS
- STEEL
- ALUMINUM

06 WOODS AND PLASTICS
- CONTINUOUS WOOD
- INTERMITTENT WOOD
- PLYWOOD
- FINISH WOOD
- HARDBOARD
- PARTICLE BOARD
- SOLID SURFACE MATERIAL

07 THERMAL & MOISTURE PROTECTION
- BATT INSULATION
- LOOSE FILL INSULATION
- RIGID INSULATION

08 DOORS & WINDOWS
- STEEL

09 FINISHES
- LATH AND PLASTER
- GYPSUM BOARD

MISCELLANEOUS GENERAL NOTES

1. THE PROJECT MANUAL, UNDER SEPARATE COVER, IS AN INTEGRAL PART OF THESE CONSTRUCTION DRAWINGS.
2. PLANS, SECTIONS, ELEVATIONS, DETAILS AND DIMENSIONS LABELED "TYPICAL" SHALL APPLY TO ALL SITUATION OCCURRING THAT ARE THE SAME OR SIMILAR TO THOSE SPECIFICALLY KEYED ON THE DRAWINGS.
3. ALL WORK, MATERIALS, AND METHODS SHALL BE IN CONFORMANCE WITH THE CODES, ORDINANCES AND REGULATIONS OF ALL GOVERNMENTAL AGENCIES HAVING JURISDICTION AT THE PROJECT LOCATION.
4. UNLESS OTHERWISE INDICATED IN THE CONSTRUCTION DOCUMENTS AS BEING NOT IN CONTRACT (N.I.C.) OR EXISTING, ALL ITEMS, MATERIALS AND INSTALLATION OF SAME ARE PART OF THE CONTRACT AS DEFINED BY THE CONSTRUCTION DOCUMENTS. THE CONTRACTOR SHALL PROVIDE AND INSTALL ALL ACCESSORIES, COMPONENTS AND ASSEMBLIES REQUIRED FOR THE WORK DEPICTED OR SPECIFIED.
5. CONTRACTORS ARE RESPONSIBLE FOR ALL WORK REGARDLESS OF THE LOCATION OF THE INFORMATION ON THE DOCUMENTS.
6. KEEP SITE CLEAN AND CLEAR OF DEBRIS AND IN ORDERLY CONDITION THAT DOES NOT DETRACT FROM THE SURROUNDING SITE AND REPAIR ANY DAMAGE CAUSED BY WORK OF THE CONTRACT.
7. ALL DIMENSIONS ARE TO THE FACE OF METAL OR WOOD STUD FRAMED WALLS AND TO THE FACE OF CONCRETE AND MASONRY WALLS AS SHOWN, UNLESS NOTED OTHERWISE.
8. INSTALL SEALANT AT EXTERIOR SIDE OF ALL JOINTS, SEAMS, CONNECTIONS OR OPENINGS WHICH WOULD ALLOW WATER OR AIR INFILTRATION EXCEPT AS NOTED OTHERWISE. SEALANT COLOR TO MATCH ADJACENT SURFACE. COLOR REQUIRES ARCHITECTS APPROVAL.
9. DOOR OPENINGS IN FRAME CONSTRUCTION WHICH ARE NOT DIMENSIONED ARE EITHER CENTERED IN THE WALL, FACE OF JAMB OR LOCATED 4" FROM THE FACE OF STUD TO THE FINISHED JAMB.
10. ALL SPECIAL ACCESSIBLE FACILITIES SHALL BE IDENTIFIED WITH APPROVED SIGNAGE.
11. THE CONTRACTOR IS RESPONSIBLE FOR PRODUCING A WEATHER TIGHT BUILDING, DETAILS AND OMISSIONS TO DRAWINGS NOTWITHSTANDING. ALL DRAWING CONFLICTS WHICH MAY NOT ALLOW A WEATHERTIGHT CONDITION SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT.
12. DISCREPANCIES BETWEEN ACTUAL CONDITIONS AND PLANS SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT. CONTRACTOR SHALL SUBMIT SPECIFIC DISCREPANCIES FOR ARCHITECT REVIEW.
13. PROVIDE FULL METAL BACKING PLATE (16 GAUGE X 6" HIGH SECURED TO 3 STUDS MIN.) OR WOOD BLOCKING AS REQUIRED TO SECURELY ANCHOR ALL WALL MOUNTED EQUIPMENT (CABINETS, TOILET ROOM ACCESSORIES, HARDWARE, ETC.). BLOCKING SHALL PROVIDE A RIGID CONNECTION CAPABLE OF SUPPORTING DESIGN LOADS. PROVIDE A 16 GAUGE X 6" STL. STUD/TRACK SECURED TO 2 STUDS TO SECURELY SUPPORT ALL WALL STOPS (DOOR BUMPER).
14. COORDINATE WITH ALL TRADES, SIZES AND LOCATIONS OF ALL OPENINGS FOR MECHANICAL, PLUMBING AND ELECTRICAL EQUIPMENT, EQUIPMENT PADS OR BASES, AS WELL AS ELECTRIC POWER, WATER, AND DRAIN INSTALLATIONS, BEFORE PROCEEDING WITH WORK. CONTRACTOR SHALL PROVIDE COORDINATION DRAWINGS FOR PROPER PLACEMENT OF ALL TRADES' WORK. ANY CONCERNS, SPACE LIMITATIONS OR STRUCTURAL CONFLICTS, SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT. A REASONABLE RESPONSE TIME SHALL BE ALLOWED AS NOTED IN THE SPECIFICATIONS.
15. ALL FLOOR OR WALL OPENINGS REQUIRED FOR PIPES, DUCTS, CONDUITS,ETC. SHALL BE SEALED IN AN APPROVED MANNER.
16. FIRE SPRINKLER DESIGN TO BE DONE BY A CERTIFIED SUB-CONTRACTOR AND WILL REQUIRE APPROVALS BY THE CITY AND STATE FIRE MARSHAL. APPROVALS BY THE FIRE MARSHAL ARE TO BE OBTAINED BY THE CONTRACTOR PRIOR TO SUBMITTAL TO ARCHITECT. SUBMITTAL TO THE ARCHITECT ALSO INDICATES THAT THE CONTRACTOR HAS REVIEWED AND COORDINATED FIRE-SPRINKLER PIPING LOCATIONS WITH ALL TRADES.
17. ROOMS ENCLOSED WITH RATED WALLS REQUIRE RATED DOORS. ANY DUCTS PASSING THROUGH WALLS REQUIRE FIRE DAMPERS AND OR FIRE/SMOKE DAMPERS. ANY CONDUIT OR PIPING REQUIRES RATED SEALANT AT JOINTS.
18. GENERAL STRUCTURAL NOTES GOVERN TYPICAL CONDITIONS WHETHER OR NOT SPECIFICALLY DETAILED OR NOTED.
19. IT IS THE CONTRACTOR'S RESPONSIBILITY TO COORDINATE AND LOCATE ELECTRICAL, DATA AND PHONE RECEPTACLES, SWITCHES, ETC. TO AVOID CASEWORK, DOORS, ETC.
20. THE DRAWINGS AND SPECIFICATIONS INDICATE THE GENERAL SCOPE OF THE PROJECT IN TERMS OF THE ARCHITECTURAL AND STRUCTURAL DESIGN CONCEPT. THE DIMENSIONS OF THE BUILDING, THE TYPE OF STRUCTURAL, MECHANICAL, ELECTICAL AND UTILITY SYSTEMS AND MAJOR ARCHITECTURAL ELEMENTS OF CONSTRUCTION AS "SCOPE" DOCUMENTS.
21. THE DRAWINGS AND SPECIFICATIONS DO NOT NECESSARILY INDICATE OR DESCRIBE ALL WORK REQUIRED FOR THE FULL PERFORMANCE AND COMPLETION OF THE WORK. CONTRACTS SHALL BE LET ON THE BASIS OF SUCH DOCUMENTS, WITH THE UNDERSTANDING THAT THE CONTRACTOR IS TO FURNISH ALL ITEMS REQUIRED FOR PROPER COMPLETION OF THE WORK WITH OUT ADJUSTMENT TO CONTRACT PRICE. IT IS INTENDED THAT THE WORK TO BE OF SOUND AND QUALITY CONSTRUCTION AND THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR THE INCLUSION OF ADEQUATE AMOUNTS TO COVER INSTALLATION OF ALL ITEMS INDICATED, DESCRIBED OR REASONABLY IMPLIED.

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project:
TOOELE APPLIED TECHNOLOGY COLLEGE - NEW BUILDING

88 South Tooele Blvd
Tooele, UT 84074

DFCM PROJECT #11064280

project#: 11.0420
date: 1/20/2012

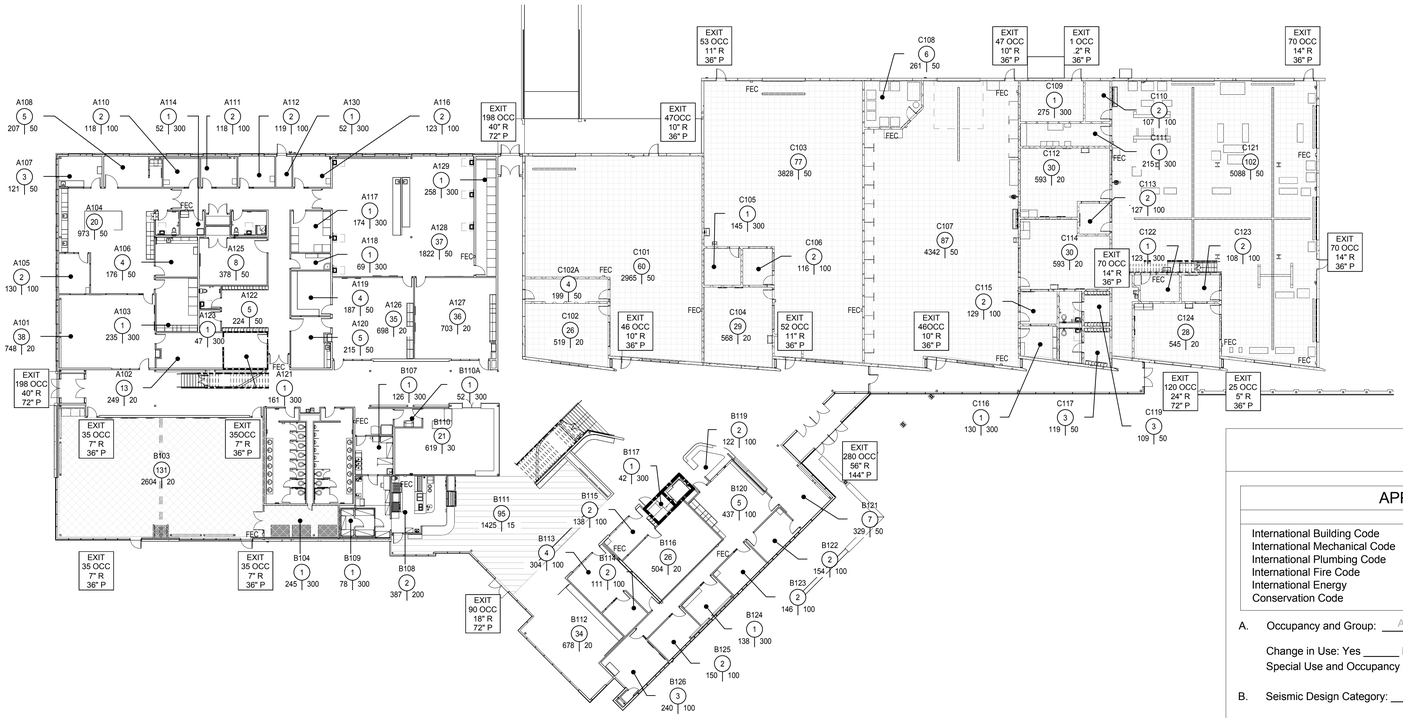
revisions :

Sheet Index & Gen'l Project Information

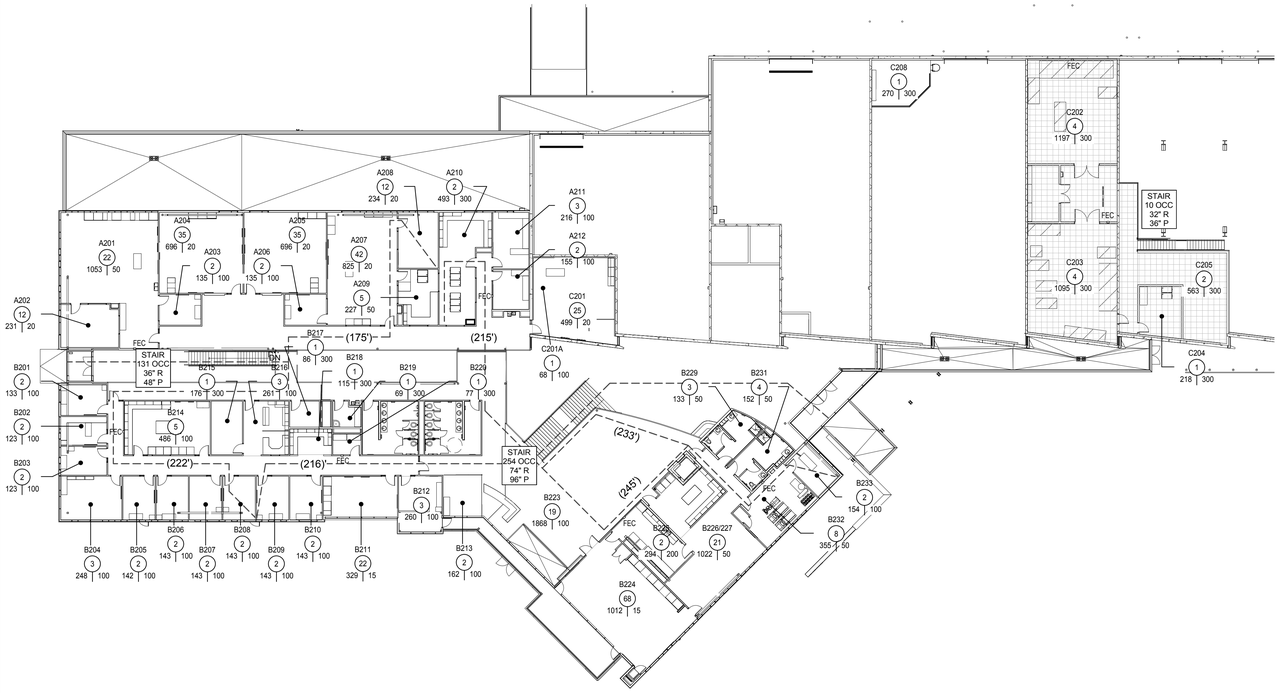
sheet:

GI002

100% Construction Documents



1 CODE PLAN - LEVEL 1
1" = 20'-0" AE201



2 CODE PLAN - LEVEL 2
1" = 20'-0" AE201

LEGEND

HATCH	OCCUPANCIES IBC chapter 3
	A-2 15 SF / OCC
	A-3 300 SF / OCC
	F-1 200 SF / OCC
	B 100 SF / OCC

FIRE SEPARATION

1 HR FIRE SEPARATION per IBC table 508.4 SEE GI005 FOR UL DETAILS

EXIT PATH 250' MAX PER IBC 1016.1

FEC- FIRE EXTINGUISHING CABINET

OCCUPANT LOADS

ROOM NUMBER — XXX — OCCUPANT LOAD

ROOM SQUARE FOOTAGE — 1 — 0 0 — LOAD FACTOR FROM TABLE 1004.1.1 IBC 2009

CODE ANALYSIS

APPLICABLE CODES

	Year		Year
International Building Code	2009	National Electrical Code	2006
International Mechanical Code	2009	Uniform Code for Building Conservation	2006
International Plumbing Code	2009	ADA Accessibility Guildelines	ANSI
International Fire Code	2009		
International Energy Conservation Code	2006		

A. Occupancy and Group: A-2 A-3 B F-1

Change in Use: Yes ____ No x Mixed Occupancy: Yes x No ____
Special Use and Occupancy (e.g. High Rise, Covered Mall): NO

B. Seismic Design Category: D Design Wind Speed: 90 mph

C. Type of Construction (circle one):

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

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

North: 0 (180') South: 0 (520') East: 0 (520') West: 0 (130')

Area Increase I_f= Frontage % factor based on values F, P, W

F = Building perimeter fronting 20' min. public way (1202 feet)

P = Full Building perimeter (1202 feet)

W= Actual width of Public Way: 20 feet min. to 30 feet maximum (30 feet)

Area Increase I_f= [F/P - 0.25] W/30

= [1202'/1202' - 0.25]30'/30' = [1-0.25] 1 = 0.75

E. Mixed Occupancies: A-2, A-3, B, F-1 Nonseparated Uses: A-2/A-3 & B & F-1

A-2 & A-3 are considered accessory occupancies to B (main occupancy)
No separations required per IBC table 508.4

F: Sprinklers: Fully sprinkled. Area Increase = 200%

Required: No Provided: x Type of Sprinkler System: NFPA 13

Area Increase I_s= % factor based on fully sprinkled building and number of stories

I_s = 2 for no more than one story above grade, per IBC 2009 Section 506.3

I_s = 2

G: Number of Stories: 2 Building Height: 40

H: Actual Area per Floor (square feet): 51,934 First, 21,817 Second

73,751 SQUARE FEET TOTAL BUILDING AREA

I:

Actual area per occupancy type NET sf:		Actual area per occupancy type NET sf:	
A-2 First Floor	1,425	B Second Floor	13,400
A-3 First Floor	2,604	F-1 Second Floor	3,281
B First Floor	23,241		
F-1 First Floor	22,706		

J: Area Modifications (IBC section 506):

a) $A_a = A_t + [A_t I_f] + [A_t I_s]$

b) Non-separated allowable area calculation: occupancies A/2 & A/3 are accessory, <10% of floor total
Occupancy F1 (IBC table 503) is the most restrictive so it will be used for the entire building.

$\frac{\text{Actual Area}}{\text{Allowable Area}} \leq 1$

LEVEL 1-OCCUPANCY F1 non-separated	allowable	actual	%
a) A_a= 15,500+[15,500x.75]+[15,500x2]	= 58,125 sf	51,934 sf	89

LEVEL 2-OCCUPANCY F1 non-separated	allowable	actual	%
a) A_a= 15,500+[15,500x.75]+[15,500x2]	= 58,125 sf	21,817 sf	38

Sum of Area Ratios First Floor :
A-2 + A-3 + B + F-1 =
0 + 0 + 0 + 0 = 0
0< 0 OK

Sum of Area Ratios Second Floor :
B + F-1 =
0 + 0 = 0
0< 0 OK

d) Unlimited Area Building: Yes ____ No x Code Section: ____

K. Fire Resistance Rating Requirements for Building Elements (hours).

Element	Hours	Assembly Listing	Element	Hours	Assembly Listing
Exterior Bearing Walls	0		Floors - Ceiling Floors	0	
Interior Bearing Walls	0		Roofs - Ceiling Roofs	0	
Exterior Non-Bearing Walls	0		Exterior Doors and Windows	0	
Structural Frame	0		Shaft Enclosures	1	
Partitions - Permanent	0		Fire Walls	1	
Fire Barriers	0		Fire Partitions	0	
			Smoke Partitions	0	

L. Design Occupant Load: 1116 1st 387 2nd ;
1503 TOTAL BUILDNG OCCUPANT LOAD

Exit Width Required: 24'-0" Exit Width Provided: 54'-0"

M. Minimum Number of Required Plumbing Facilities:

FIRST FLOOR RESTROOMS (IPC 2009 Table 403.1)

Occupancy	Occupant Load	Water Closets Ratio	M	Ratio	W	Lavatories Ratio	M	Ratio	W	Drinking Fountain	Service Sink
A2	149 70 M	1/75	1	1/75	1	1/200	1	1/200	1	1/500 1	1/space 1
A3	131 69 M	1/125	1	1/65	2	1/200	1	1/200	1	1/500 1	1/space 1
B	316 158 M	1/25<50 1/50>50	2 3	1/25<50 1/50>50	2 3	1/40<80 1/80>80	2 1	1/40<80 1/80>80	2 1	1/100 1	1/space 1
F1	486 243 M	1/100	3	1/100	3	1/100	3	1/100	3	1/400 1	1/space 1
TOTAL	1068 **		10		11		8		8	7	4
PROVIDED			11		11		11		11	7	4

**One water closet in each restroom is designed for ADA ambulatory requirements.

SECOND FLOOR RESTROOMS (IPC 2009 Table 403.1)

Occupancy	Occupant Load	Water Closets Ratio	M	Ratio	W	Lavatories Ratio	M	Ratio	W	Drinking Fountain	Service Sink
B	348 174 M	1/25<50 1/50>50	2 3	1/25<50 1/50>50	2 3	1/40<80 1/80>80	2 2	1/40<80 1/80>80	2 2	1/100 1	1/space 1
F1	12 6 M	1/100	1	1/100	1	1/100	1	1/100	1	1/1000 1	1/space 1
TOTAL	345		6		6		5		5	5	2
PROVIDED			6*		6		6		6	5	2

*One water closet in each restroom is designed for ADA ambulatory requirements.

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.

LICENSED ARCHITECT 6710870 JOSEPH FLINT SMITH STATE OF UTAH
01.20.12

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DFCM PROJECT #11064280

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revisions :

Code Plan

sheet:

GI003

100% Construction Documents

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 ☐ Cold-formed Construction ☐ Concrete Construction Other:_____ ☐ Wood Construction 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		
Single, 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)				
Pretensioned & slip-critical joints	☐ Continuous	☒ Periodic ☐ #1 ☐ #2 ☐ #3		For periodic inspections one of the following methods must be used: (1) turn-of-nut method w/ match-marking, (2) direct tension indicator method or (3) the alternate design fastener (i.e. twist-off bolt) method (see Section 9.2 of 2009 RCSC Specification).
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 QS.1 of AISC 341-05).
Nondestructive testing	☒ Continuous		(1) When welding of double-bevel plates, continuity plates or stiffeners has been done in the k-area, the web shall be tested for cracks using magnetic particle testing (MT). Inspection area shall include the k-area base metal within 3 in. of the weld. (2) percent of all beam-to-wall CJP groove welds. (3) At welded splices and connections, thermally cut surfaces of beam copes and access holes shall be tested when the flange thickness exceeds 1 ½" for rolled shapes or when the web thickness exceeds 1 ½" for build-up shapes. (4) Any weld and adjacent area of the RBS plastic hinge region that has been repaired by welding, or on the base metal of the RBS plastic hinge region if a sharp notch has been removed by grinding. (5) The ends of welds from which the weld tabs have been removed, except for continuity plate weld tabs. (6) Where approved by the Engineer and the Building Official, the amount of required MT on CJP groove welds may be reduced to 10% provided the demonstrated reject rate of a welder or welding operator is 5% or less and at least 20 completed welds have been used to calculate reject rate. This reduction only applies to welds in item (1) above, and is not permitted on other welds requiring MT.
Inspection prior to bolting	☒ Continuous		
Inspection during bolting	☒ Continuous		
Inspection after bolting		☒ Periodic	Document accepted and rejected connections (see Section QS.3 of AISC 341-05).
Reduced beam sections (RBS)		☒ Periodic	Verify contour and finish as well as dimensional tolerances (see Section QS.4 of AISC 341-05).
Protected zones		☒ Periodic	Verify that no holes or unapproved attachments are made within the protected zone (see Section QS.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, 1911.2, 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.
Erection of precast concrete	☐ Continuous	☒ Periodic	Verify that all precast elements are lifted, assembled and braced in accordance with the approved construction documents.
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 moment frames, special structural walls and coupling beams	☐ Continuous	☒ Periodic	Verify that ASTM A615 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_{vm} 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 >¼" 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

Location of reinforcement, connectors, prestressing tendons and anchorages	☐ Continuous	☒ Periodic	collar joints < 3/4" with mortar during construction. 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.
Prestressing technique	☐ Continuous	☒ Periodic	The pre-stressing force at each tendon shall be verified by two methods: (1) measuring the steel elongation and (2) the observed jacking force applied to the tendon. The measured elongation should be compared to the load-elongation curves for the pre-stressing steel used and not more than a 5%-difference should be found when comparing to the actual force applied. A 7% difference is allowed for post-tensioned tendons. (See Section 3.6B of ACI 530.1-08)
Grade and size of prestressing tendons and anchorages	☐ Continuous	☒ Periodic	Confirm that anchorages and couplers are capable of developing 95% of the specified breaking strength of the prestressing tendons. Confirm that tendons meet the requirements of Section 2.4B in 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.
Application and measurement of prestressing force	☒ Continuous	☐ Periodic	

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	

COLD-FORMED STEEL LIGHT-FRAME CONSTRUCTION (IBC 1704.3.4, 1706.3 & 1707.4)

Item				Detailed Instructions and Frequencies
Trusses spanning > 60-feet	☐ Continuous	☒ Periodic		Verify that temporary and permanent truss bracing is installed in accordance with approved truss package. Performed by code inspection firm.
Wind-force-resisting systems or seismic-force-resisting systems	☐ Continuous	☒ Periodic		Periodic inspections of welding operations. If fastener spacing is < 4"o.c.: Verify that proper screw attachment, bolting, anchoring and other fastening of shearwalls, diaphragms, drag struts, braces, shear panels and holdowns has occurred. Performed by code inspection firm.

STORAGE RACKS & ACCESS FLOORS (IBC 1707.5)

Item				Detailed Instructions and Frequencies
Verify anchorage	☐ Continuous	☒ Periodic		Verify that anchorage complies with approved construction documents. Inspection of post-installed anchors shall comply with approved ICC-ES report. Performed by code inspection firm.

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

Installation of vibration isolation systems having a clearance of ≤¼"	☐ Continuous	☒ Periodic	Inspection firm.
Designated seismic systems	☐ Continuous	☒ Periodic	Verify that installation complies with approved construction documents and manufacturer's recommendations. Performed by code Inspection firm. 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

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

			Detailed Instructions and Frequencies
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	
Soils for curb and gutter (specify locations and frequency)	☐ Continuous	☐ Periodic	
Soils for parking lots (specify locations and frequency)	☐ Continuous	☐ Periodic	
Soils for utility trench backfill	☐ Continuous	☐ Periodic	
Reinforcement for slab on grade sidewalks and drive approaches (specify locations and frequency).	☐ Continuous	☐ Periodic	
Reinforcement for interior slab on grade (specify locations and frequency)	☐ Continuous	☐ Periodic	
Concrete testing for slab on grade sidewalks and drive approaches (specify locations and frequency)	☐ Continuous	☐ Periodic	
Concrete testing for interior slab on grade (specify locations and frequency)	☐ Continuous	☐ Periodic	
Asphalt inspection (specify locations and frequency)	☐ Continuous	☐ Periodic	
Asphalt testing (specify locations and frequency)	☐ Continuous	☐ Periodic	
Steam and water line welding (specify locations and frequency).	☐ Continuous	☐ Periodic	
Seismic supports for duct work and sealing of joints for duct work	☐ Continuous	☐ Periodic	
Seismic supports for electrical raceways, cable trays and lights	☐ Continuous	☐ Periodic	
Seismic supports for plumbing lines including gas, water and steam and condensation	☐ Continuous	☐ Periodic	
Seismic bracing for mechanical units both on slab and suspended	☐ Continuous	☐ Periodic	
	☐ Continuous	☐ Periodic	
	☐ Continuous	☐ Periodic	

	☐ Continuous	☐ Periodic	
	☐ Continuous	☐ Periodic	
	☐ Continuous	☐ Periodic	
	☐ Continuous	☐ Periodic	
	☐ Continuous	☐ Periodic	
	☐ Continuous	☐ Periodic	
	☐ Continuous	☐ Periodic	
	☐ Continuous	☐ Periodic	
	☐ Continuous	☐ Periodic	
	☐ Continuous	☐ Periodic	
	☐ Continuous	☐ Periodic	

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 May 16, 2011

PROPOSED DFCM MATERIALS TESTING/SPECIAL INSPECTION STANDARD (REV. a13-03)

Table 1 **SPECIAL INSPECTION/TESTING PERSONNEL**

Personnel	Certificate
Concrete Special Inspector	ICC; ACI Level II
Fireproofing Special Inspector	ICC
Masonry Special Inspector	ICC
Welding/Steel Special Inspector	ICC; CWI; CAWI
High Strength Bolting Inspector	ICC
Concrete Field Technician	ACI level I; WAQTC-CTT; PCA; NRMCA; NICET
Soils Technician	NICET level II; WAQTC-EbTT/DTT
Masonry Field Technician (Grout/mortar samples)	ACI level I; WAQTC-CTT
Non-Destructive Testing	*NDT III; II; I

Table 2 **LABORATORY**

ASTM Standard	Accreditation Authority
Concrete (C 1077)	AAP; CMEC; A2LA; NVLAP
Masonry (C 1093)	** AAP (with C 1077); CMEC; A2LA; NVLAP
Steel (A 880)	A2LA; NVLAP
Soils/Rock (D 3740)	AAP; CMEC; A2LA; NVLAP
Bituminous (D 3666)	AAP; CMEC; A2LA; NVLAP
Non Destructive testing (E 543)	A2LA; NVLAP
Lab Competence (E 548)	AAP; CMEC; A2LA; NVLAP
Fireproofing (E 605)	A2LA; NVLAP

Notes: Accreditation is required to perform any test referenced within ASTM standards (Table 2, column 1).
*NDT level I must have on site supervision by NDT level II or III.
**AAP ASTM C 1077 accreditation permits materials testing on grout, mortar and masonry prisms.

Organizations providing accreditation, training and certification:

A2LA, American Association for Laboratory Accreditation.
AAP, AASHTO Accreditation Program.
ACI, American Concrete Institute.
CMEC, Construction Materials Engineering Council.
ICC, International Conference of Building Officials.
NDT, Non Destructive Testing.
NICET, National Institute for Certification in Engineering Technologies.
NRMCA, National Ready Mix Concrete Association.
NVLAP, National Institute of Standards and Technology.
PCA, Portland Cement Association.
WAQTC, Western Alliance for Quality Transportation Construction.

DFCM Material Testing/Inspection Standard is subject to change without notice.

Rev. a15/03

NONSTRUCTURAL COMPONENT CHECKLIST

ITEM DESCRIPTION	*NOT REQUIRED*	*ON CONST. DOCUMENTS*	*DEFERRED SUBMITTAL*	*COMMENTS*
Architectural Components:				
Interior Nonstructural Walls & Partitions		X		AE621 ALL WALLS TO DECK ABOVE
Cantilever Elements *(i.e. parapets, etc.)*	X			
Exterior Nonstructural Wall Elements	X			
Veneer	X			
Penthouses	X			
Ceilings *(i.e. suspended grid or hard-lid)*		X		AE806 CEILING DETAILS
Cabinets *(i.e. storage cabinets, equip. etc.)*		X		AE901 BLOCKING DETAILS
Access Floors	X			
Storage Racks		X		
Appendages & Ornamentations	X			
Signs & Billboards	X			
Other:				AE901 BLOCKING DETAILS
Other:				
MEP Components:				
Fire Sprinklers			X	
Mechanical Equipment *(i.e. HVAC, fans, air handlers, boilers, furnaces, tanks, chillers, water heaters, heat exchangers, evaporators, engines, turbines, pumps, compressors, MFR equipment, etc.)*			X	
Electrical Equipment *(i.e. generators, batteries, inverters, transformers, MCC, panel boards, switch gear, cabinets, etc.)*			X	
Elevator & Escalator Components			X	
Communication Equipment, Computers, Instrumentation, and Controls			X	
Roof-mounted Chimneys, Stacks, Cooling & Electrical Towers			X	
Lighting Fixtures		X		EE501 ELECTRICAL DETAILS
Vibration Isolated Components			X	
Piping & Conduit Systems			X	
Ductwork *(including in-line components)*			X	
Conveyors	X			
Cable Trays		X		EE501 ELECTRICAL DETAILS
Other:				
Other:				

NOTES:

1. Deferred submittals for seismic restraint of nonstructural components must be submitted to the DFCM Building Official a minimum of two weeks prior to the planned installation in order to allow for plan review and forwarding to Inspectors. In the event that the submittal is deficient additional time may become necessary.
2. If seismic restraints of non-structural components are installed prior to receiving DFCM approval they shall not be covered or concealed until receiving both plan review and inspection approval. Further, Installers are proceeding at their own risk until plan review and inspection approval occurs.
3. The requirements for seismic restraint of nonstructural components cannot be satisfied by a general reference to Design Manuals. The design professional may utilize these manuals as a basis of their design, but must provide all supporting documentation to ensure that the design conforms to the requirements of ASCE 7-05, Chapter 13.
4. Submittals must include details of the proposed seismic restraint of nonstructural components. These details must show specific information relating to the materials, type, size, and locations of anchorages; materials used for bracing; attachment requirements of bracing to structure and component; and locations of transverse and longitudinal sway bracing and rod stiffeners. Submittals may also require structural calculations, engineering reports, test data, and/or specifications to ensure code compliance.

Revised: 02/15/2010

LICENSED ARCHITECT 6710870 JOSEPH FLINT SMITH STATE OF UTAH
01.20.12

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METHOD STUDIO INC.
925 south west temple
salt lake city, utah 84101
phone:(801) 532-4422

consultants:

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project:
TOOELE APPLIED TECHNOLOGY COLLEGE - NEW BUILDING

88 South Tooele Blvd
Tooele, UT 84074

DFCM PROJECT #11064280

project#: 11.0420
date: 1/20/2012

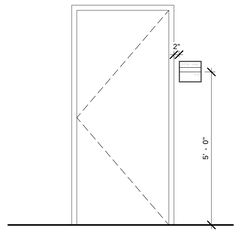
revisions :

Special Inspections - Check list

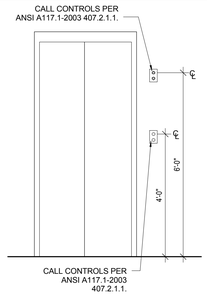
sheet:

GI004

100% Construction Documents



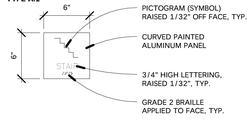
1 SIGNAGE PLACEMENT
1/2" = 1'-0"



2 ELEVATOR DOOR ELEVATION (TYP)
1/2" = 1'-0"

SIGNAGE LEGEND

TYPE A.1



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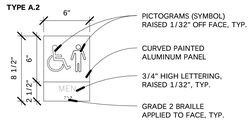

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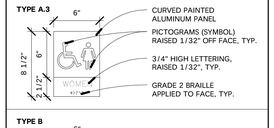

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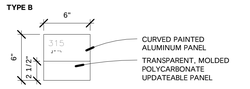
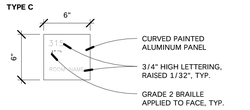
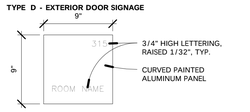


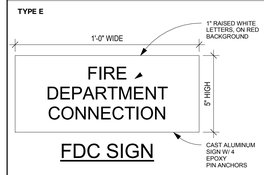
TYPE C



TYPE D - EXTERIOR DOOR SIGNAGE



TYPE E

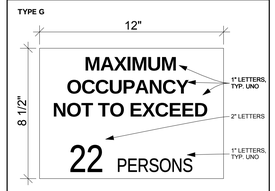


FDC SIGN

TYPE F

ELEVATOR SIGN
- SETON STYLE NO. 25639 OR EQ.

TYPE G



OCCUPANT LOAD SIGN
- SETON STYLE NO. 43355 OR EQ.

GENERAL SIGNAGE NOTES

1	PROVIDE OCCUPANT LOAD SIGNS AT A-2 & A-3 ASSEMBLY ROOMS.
2	PROVIDE TYPE A.2 & A.3 @ EACH TOILET ROOM
3	PROVIDE FDC SIGN @ A130 EXTERIOR
4	PROVIDE ELEVATOR SIGN @ ELEVATORS
5	SEE ELECTRICAL FOR EXIT SIGNS
6	PROVIDE TYPE A.1 @ EACH STAIR TOP AND BOTTOM

LICENSED ARCHITECT
6710870
JOSEPH FLINT SMITH
STATE OF UTAH
01.20.12

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METHOD
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consultants:

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project:
TOOELE APPLIED TECHNOLOGY COLLEGE - NEW BUILDING

88 South Tooele Blvd
Tooele, UT 84074

DFCM PROJECT #11064280

project#: 11.0420
date: 1/20/2012

revisions :

Signage

sheet:

GI005

100% Construction Documents

Civil Cover Sheet -
Tooele Applied Technology Center

Sheet List

Name	Sheet No.
Cover Sheet	CV100
Demolition Plan	CD-101
Site Plan	CS-101
Striping Plan	CS-102
Grading & Drainage Plan	CG-101
Utility Plan	CU-101
Details	CD-501
Details	CD-502
Demolition SWPP Plan	CW-101
Grading & Drainage SWPP Plan	CW-102
Utility SWPP Plan	CW-103

Vicinity Map

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GREAT BASIN ENGINEERING INC
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project:

Tooele Applied Technology College - New Building

88 South Tooele Blvd
Tooele, UT 84074

project#: 11.0130
date: 1/20/2011

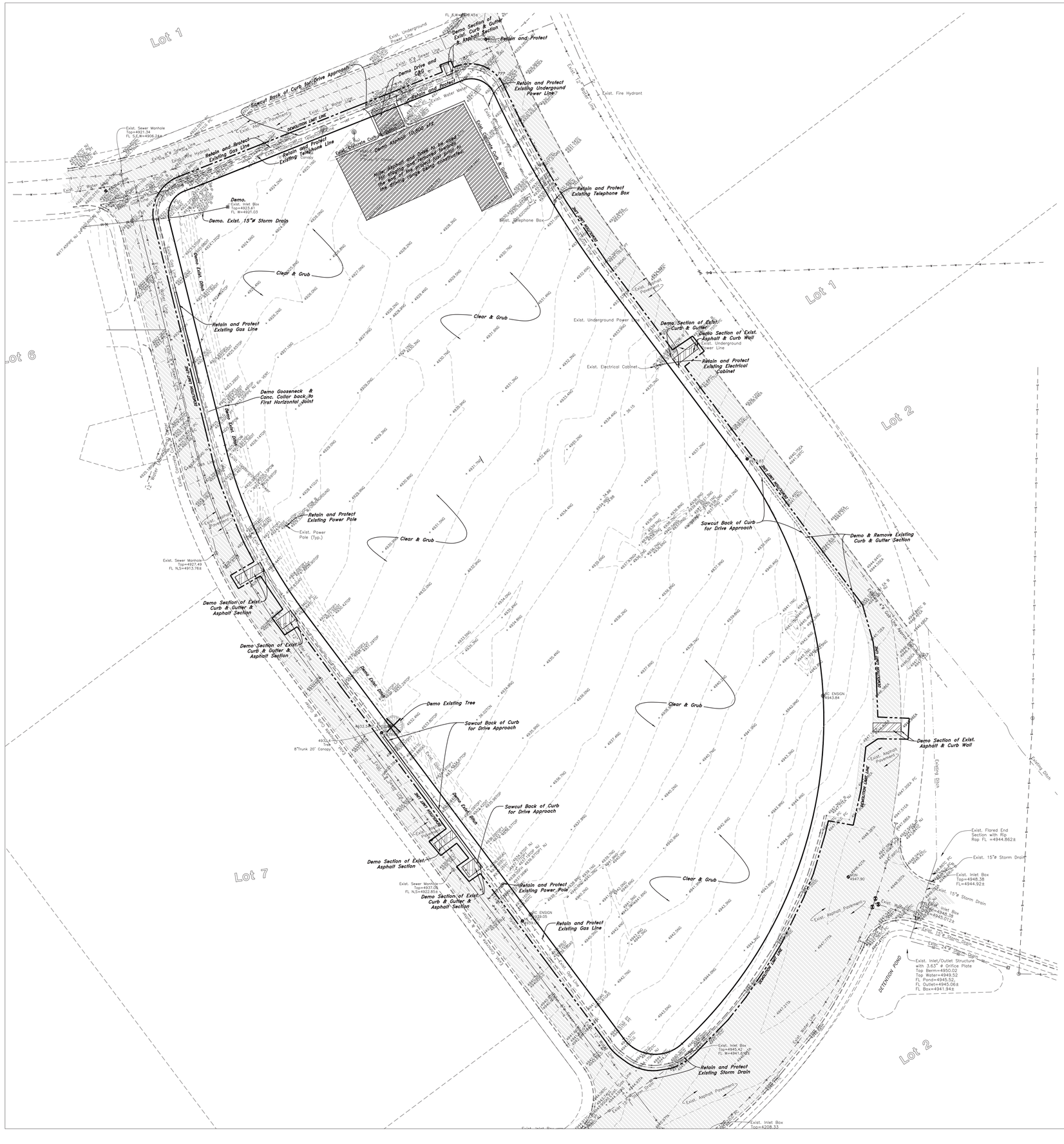
revisions :

Cover Sheet

sheet:

CV-100

100% DFCM Review Set



Scale: 1" = 40'

40 0 10 20 40 50 60 70 80

Graphic Scale

Legend

(Note: All items may not appear on drawing)

San. Sewer Manhole	S
Water Manhole	W
Storm Drain Manhole	D
Electrical Manhole	E
Catch Basins	
Exist. Fire Hydrant	
Fire Hydrant	
Exist. Water Valve	
Water Valve	
Sanitary Sewer	S
Culinary Water	W
Gas Line	G
Irrigation Line	IW
Storm Drain	SD
Telephone Line	T
Secondary Waterline	SW
Power Line	P
Fire Line	F
Land Drain	LD
Power pole	
Power pole w/guy	
Light Pole	
Fence	x x x
Flowline of ditch	
Overhead Power line	OHP
Corrugated Metal Pipe	CMP
Concrete Pipe	CP
Reinforced Concrete Pipe	RCP
Ductile Iron	DI
Polyvinyl Chloride	PVC
Top of Asphalt	TA
Edge of Asphalt	EA
Centerline	CL
Flowline	FL
Finish Floor	FF
Top of Curb	TC
Top of Wall	TWL
Top of Walk	TW
Top of Concrete	TCN
Natural Ground	NG
Finish Grade	FG
Fire Department Connection	FDC
Finish Contour	90
Exist. Contour	90
Finish Grade	95.33TA
Exist. Grade	95.72TA
Ridge Line	R
Direction of Flow	
Existing Asphalt	
New Asphalt	
Heavy Duty Asphalt	
Concrete	
Open Face Curb & Gutter	
Demo Tree	

BLUE STAKES
Call: TOLL FREE
1-800 662-4111
TWO WORKING DAYS BEFORE YOU DIG

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

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

UTAH LICENSED PROFESSIONAL ENGINEER No. 5339572 CHRISTIAN MICHAELSON STATE OF UTAH 1/18/2021

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METHOD STUDIO INC.
242 south 400 east
salt lake city, utah 84111
phone:(801) 532-4422

consultants:

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

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project:

Tooele Applied Technology College - New Building

88 South Tooele Blvd
Tooele, UT 84074

project#: 18.0520
date: 1/20/2021

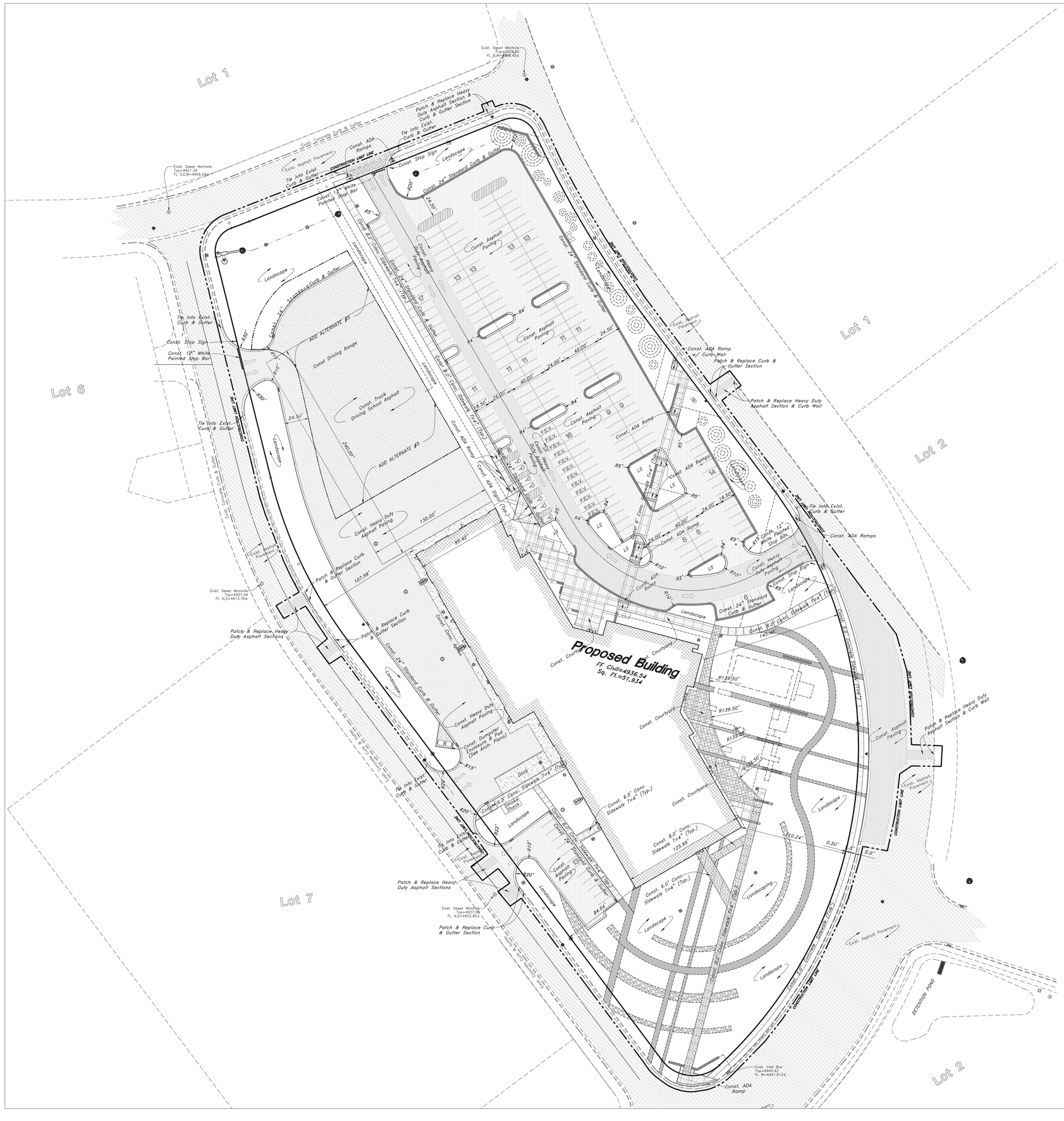
revisions :

Demolition Plan

sheet:

CD-101

100% DFCM Review Set



Legend

(Note: All items may not appear on drawing)

San. Sewer Manhole	S
Water Manhole	W
Storm Drain Manhole	D
Electrical Manhole	E
Catch Basins	
Exist. Fire Hydrant	
Fire Hydrant	
Exist. Water Valve	
Water Valve	
Sanitary Sewer	S
Culinary Water	W
Gas Line	G
Irrigation Line	IW
Storm Drain	SD
Telephone Line	T
Secondary Waterline	SW
Power Line	P
Fire Line	F
Land Drain	LD
Power pole	
Power pole w/guy	
Light Pole	
Fence	x x x
Flowline of ditch	
Overhead Power line	OHP
Corrugated Metal Pipe	CMP
Concrete Pipe	CP
Reinforced Concrete Pipe	RCP
Ductile Iron	DI
Polyvinyl Chloride	PVC
Top of Asphalt	TA
Edge of Asphalt	EA
Centerline	CL
Flowline	FL
Finish Floor	FF
Top of Curb	TC
Top of Wall	TWL
Top of Walk	TW
Top of Concrete	TCN
Natural Ground	NG
Finish Grade	FG
Fire Department Connection	FDC
Finish Contour	90
Exist. Contour	90
Finish Grade	95.33TA
Exist. Grade	95.721A
Ridge Line	R
Direction of Flow	
Existing Asphalt	
New Asphalt	
Heavy Duty Asphalt	
Concrete	
Open Face Curb & Gutter	
Demo Tree	

BLUE STAKES
Call: TOLL FREE
1-800
662-4111
TWO WORKING DAYS BEFORE YOU DIG

Site Date Table:
Site Area=368784 sf
Building Foot Print =52,639 sf = 14.18%
Parking Stalls =227
ADA Parking Stalls =7
Standard Asphalt Paving Area = 77,277 sf=20.9%
Med. Duty Asphalt Paving Area = 29,062 sf=7.9%
Heavy Duty Asphalt Paving Area = 30,482 sf=8.3%
Walk Area = 7,083 sf=1.9%
Apron Area =4,191 sf=1.1%
Courtyard Area = 12,221 sf=3.3%
Landscape Area = 156,154 sf=42.3%

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.

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

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project:

Tooele Applied Technology College - New Building

88 South Tooele Blvd
Tooele, UT 84074

project#: 11.0420
date: 1/20/2011

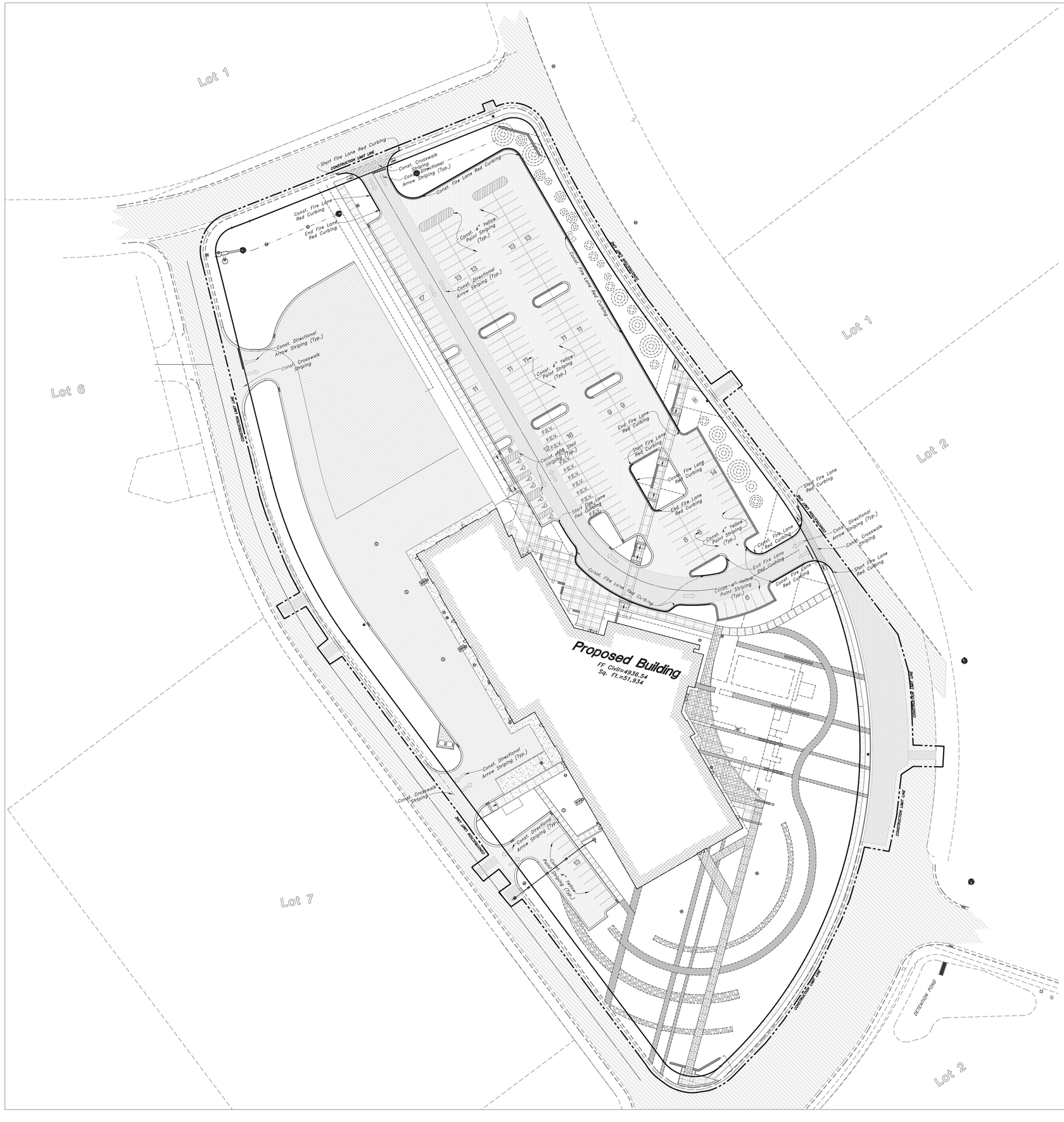
revisions :

Site Plan

sheet:

CS-101

100% DFCM Review Set



Scale: 1" = 40'

Graphic Scale

Legend

(Note: All items may not appear on drawing)

San. Sewer Manhole	S
Water Manhole	W
Storm Drain Manhole	D
Electrical Manhole	E
Catch Basins	
Exist. Fire Hydrant	
Fire Hydrant	
Exist. Water Valve	
Water Valve	
Sanitary Sewer	—S—
Culinary Water	—W—
Gas Line	—G—
Irrigation Line	—IW—
Storm Drain	—SD—
Telephone Line	—T—
Secondary Waterline	—SW—
Power Line	—P—
Fire Line	—F—
Land Drain	—LD—
Power pole	
Power pole w/guy	
Light Pole	
Fence	x x x
Flowline of ditch	
Overhead Power line	—OHP—
Corrugated Metal Pipe	CMP
Concrete Pipe	CP
Reinforced Concrete Pipe	RCP
Ductile Iron	DI
Polyvinyl Chloride	PVC
Top of Asphalt	TA
Edge of Asphalt	EA
Centerline	CL
Flowline	FL
Finish Floor	FF
Top of Curb	TC
Top of Wall	TWL
Top of Walk	TW
Top of Concrete	TCN
Natural Ground	NG
Finish Grade	FG
Fire Department Connection	FDC
Finish Contour	—90—
Exist. Contour	— 90 —
Finish Grade	**95.33TA**
Exist. Grade	95.721A
Ridge Line	— R —
Direction of Flow	
Existing Asphalt	
New Asphalt	
Heavy Duty Asphalt	
Concrete	
Open Face Curb & Gutter	
Demo Tree	

BLUE STAKES
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TWO WORKING DAYS BEFORE YOU DIG

Site Date Table:
Site Area=368784 sf
Building Foot Print =52,639 sf = 14.18%
Parking Stalls =213
ADA Parking Stalls =7
Standard Asphalt Paving Area = 77,277 sf=20.9%
Med. Duty Asphalt Paving Area = 29,062 sf=7.9%
Heavy Duty Asphalt Paving Area = 30,482 sf=8.3%
Walk Area = 7,083 sf=1.9%
Apron Area =4,191 sf=1.1%
Courtyard Area = 12,221 sf=3.3%
Landscape Area = 156,154 sf=42.3%

General Site Notes:
1. Stalls designated as handicap will require a painted handicap symbol and sign. (See Details)
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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.

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

No. 3339572
CHRISTIAN MICHAELSON
11/01/2011
STATE OF UTAH

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project:

Tooele Applied Technology College - New Building

88 South Tooele Blvd
Tooele, UT 84074

project#: 11.0420
date: 1/20/2011

revisions :

Striping Plan

sheet:

CS-102

100% DFCM Review Set

Earthwork Analysis:
Finish Grade down to Existing Grade

Cut	13,875.5 cyd
Fill	-9,883.2 cyd
Net	3,992.25 cyd export

Required Fill for asphalt and concrete
Asphalt A=77,277 sf, 3" over 6" = 2,146.6 cyd
Med Asphalt =29,062 sf, 3" over 6" = 986.7 cyd
Heavy Duty Asphalt = 30,482 sf, 4" over 8" = 1,129.0 cyd
Concrete Apron = 4,191 sf, 8" over 4" = 155.2 cyd
Sidewalks = 7,083 sf, 5" over 4" = 196.8 cyd
Courtyard = 12,221 sf, 5" over 4" = 339.5 cyd
Building = 52,639 sf, 6" over 6" =1,949.6
Total Estimated Required Fill =6,903 cyd

Net total export =10,895.5 cubic yards

BLUE STAKES
Call: TOLL FREE
1-800
662-4111
TWO WORKING DAYS BEFORE YOU DIG

Scale: 1" = 40'

Graphic Scale

Legend
(Note: All Items may not appear on drawing)

San. Sewer Manhole
Water Manhole
Storm Drain Manhole
Electrical Manhole
Catch Basins
Exist. Fire Hydrant
Fire Hydrant
Exist. Water Valve
Water Valve
Sanitary Sewer — S —
Culinary Water — W —
Gas Line — G —
Irrigation Line — IW —
Storm Drain — SD —
Telephone Line — T —
Secondary Waterline — SW —
Power Line — P —
Fire Line — F —
Land Drain — LD —
Power pole
Power pole w/guy
Light Pole
Fence
Flowline of ditch
Overhead Power line — OHP —
Corrugated Metal Pipe CMP
Concrete Pipe CP
Reinforced Concrete Pipe RCP
Ductile Iron DI
Polyvinyl Chloride PVC
Top of Asphalt TA
Edge of Asphalt EA
Centerline CL
Flowline FL
Finish Floor FF
Top of Curb TC
Top of Wall TWL
Top of Walk TW
Top of Concrete TCN
Natural Ground NG
Finish Grade FG
Fire Department Connection FDC
Finish Contour — 90 —
Exist. Contour — 90 —
Finish Grade 95.33TA
Exist. Grade 95.72TA
Ridge Line — R —
Direction of Flow
Existing Asphalt
New Asphalt
Heavy Duty Asphalt
Concrete
Open Face Curb & Gutter
Demo Tree

General Grading Notes:
1. All work shall be in accordance with the City Public Works Standard.
2. Cut slopes shall be no steeper than 2 horizontal to 1 vertical.
3. Fill slopes shall be no steeper than 2 horizontal to 1 vertical.
4. Fills shall be compacted per the recommendations of the geotechnical report prepared for the project and shall be certified by the geotechnical engineer.
5. Areas to receive fill shall be properly prepared and approved by the City inspector and geotechnical Engineer prior to placing fill.
6. Fills shall be benched into competent material as per specifications and geotechnical report.
7. All trench backfill shall be tested and certified by the site geotechnical engineer per the grading code.
8. A geotechnical engineer shall perform periodic inspections and submit a complete report and map upon completion of the rough grading.
9. The final compaction report and certification from the geotechnical engineer shall contain the type of field testing performed. Each test shall be identified with the method of obtaining the in-place density, whether sand cone or drive ring and shall be so noted for each test. Sufficient maximum density determinations shall be performed to verify the accuracy of the maximum density curves used by the field technician.
10. Dust shall be controlled by watering.
11. The location and protection of all utilities is the responsibility of the permitee.
12. Approved protective measures and temporary drainage provisions must be used to protect adjoining properties during the grading project.
13. All public roadways must be cleared daily of all dirt, mud and debris deposited on them as a result of the grading operation. Cleaning is to be done to the satisfaction of the city engineer.
14. The site shall be cleared and grubbed of all vegetation and deleterious matter prior to grading.
15. The contractor shall provide shoring in accordance with OSHA requirements for trench walls.
16. Aggregate base shall be compacted per the geotechnical report prepared for the project.
17. Elevations shown on this plan are finish grades. Rough grades are the subgrades of the improvements shown hereon.
18. The recommendations in the following Geotechnical Engineering Report by xxxx are included in the requirements of grading and site preparation.
The report is titled "GEOTECHNICAL ENGINEERING STUDY FOR TOOELE APPLIED TECHNOLOGY COLLEGE (TATC) UTAH COLLEGE OF APPLIED TECHNOLOGY TOOELE, UT"
Job No.: AUA11-400-00 Address: 88 SOUTH TOOELE BLVD. TOOELE, UT 84074
Dated: SEPTEMBER 2011
19 As part of the construction documents, owner has provided contractor with a topographic survey performed by manual or aerial means. Such survey was prepared for project design purposes and is provided to the contractor as a courtesy. It is expressly understood that such survey may not accurately reflect existing topographic conditions.
20. Erosion Control: Protect all inlet boxes, catch basins, etc. with straw bales or other approved method to strain the strom water during construction. Protect surrounding properties and streets from site runoff with sandbags and earth berms.

Curb and Gutter Construction Notes:
1. Open face gutter shall be constructed where drainage is directed away from curb.
2. Open face gutter locations are indicated by shading and notes on site and grading plan.
3. It is the responsibility of the surveyor to adjust top of curb grades at the time construction staking.
4. Refer to the typical details for a standard and open face curb and gutter for dimensions.
5. Transitions between open face and standard curb and gutter are to be smooth. Hand form these areas if necessary.

ADA Notes:
Contractor must maintain a running slope on Accessible routes no steeper than 5.0% (1:20). The cross slope for Accessible routs must be no steeper than 2.0% (1:50). All Accessible routes must have a minimum clear width of 36". If grades on plans do not meet this requirement notify Consultants immediately.
The Client, Contractor, and Subcontractor should immediately notify the Consultant of any conditions of the project that they believe do not comply with the current state of the ADA and/or FHAA.

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project:

Tooele Applied Technology College - New Building

88 South Tooele Blvd
Tooele, UT 84074

project#: 11.0420
date: 1/20/2011

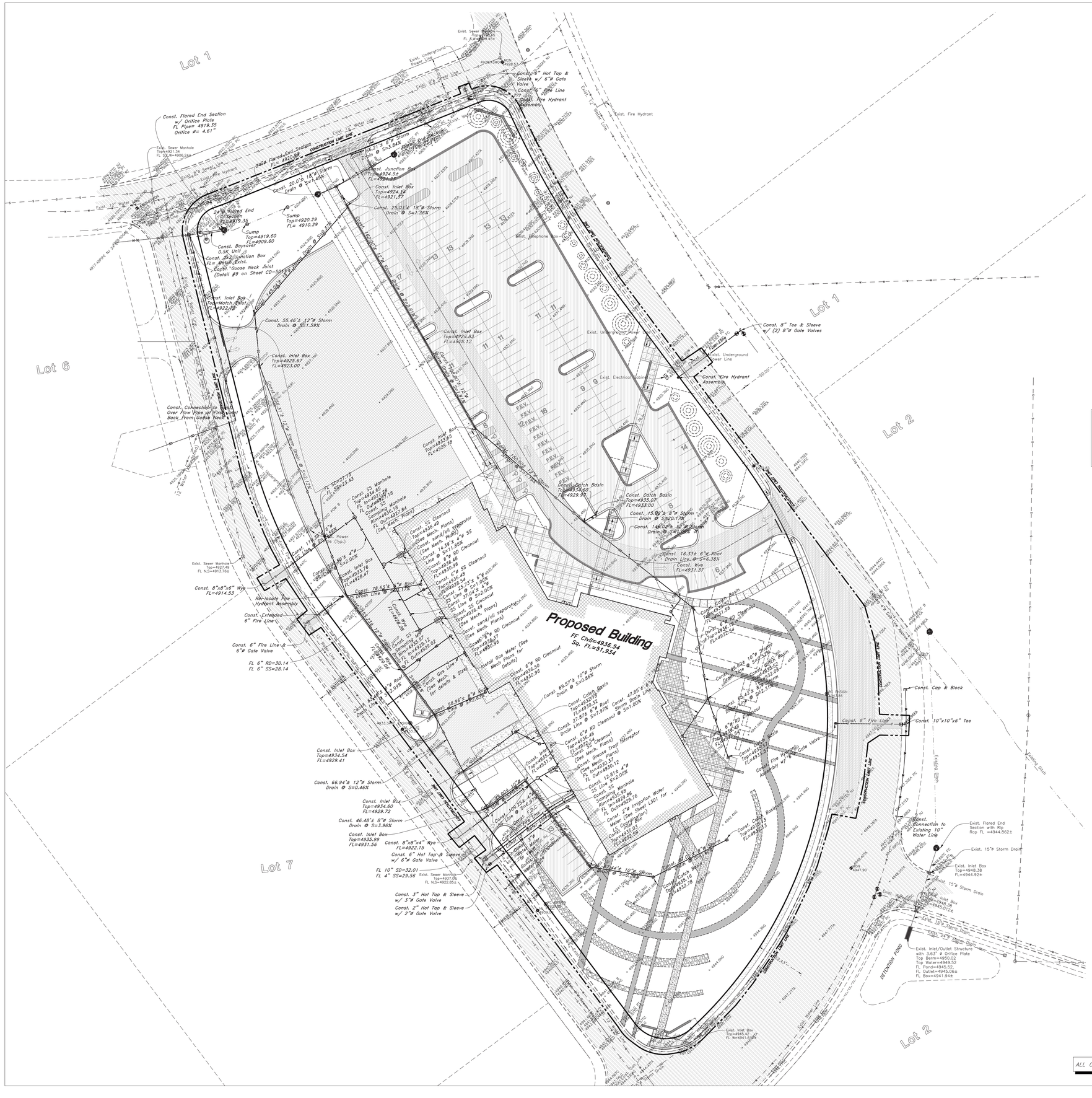
revisions :

Grading Plan

sheet:

CG-101

100% DFCM Review Set


Lot 1
Lot 2
Lot 6
Lot 7
Proposed Building
FF. Civil=4936.54
Sq. Ft.=51,934
DETENTION POND
Const. Flared End Section w/ Orifice Plate FL= 4919.35 Orifice #= 4.61"
Const. 8" Hot Tap & Sleeve w/ 6"# Gate Valve
Const. 8" Tee & Sleeve w/ (2) 8"# Gate Valves
Const. Fire Hydrant Assembly
Const. Cap & Block
Const. 10"x10"x6" Tee
Const. 6" Fire Line
Const. Connection to Existing 10" Water Line
Const. Inlet Box Top=4934.54 FL=4929.41
Const. 66.94'± 12"# Storm Drain @ S=0.46%
Const. Inlet Box Top=4934.60 FL=4929.72
Const. 46.48'± 8"# Storm Drain @ S=3.96%
Const. Inlet Box Top=4935.99 FL=4931.56
Const. 8"x8"x4" Wye FL=4922.15
Const. 6" Hot Tap & Sleeve w/ 6"# Gate Valve
FL 10" SD=32.01 FL 4" SS=29.56
Const. 3" Hot Tap & Sleeve w/ 3"# Gate Valve
Const. 2" Hot Tap & Sleeve w/ 2"# Gate Valve
Const. 8"x8"x6" Wye FL=4914.53
Re-locate Fire Hydrant Assembly
Const. Extended 6" Fire Line
Const. 6" Fire Line & 6"# Gate Valve
FL 6" RD=30.14 FL 6" SS=28.14
Exist. Fire Hydrant
Exist. Flared End Section with Rip Rap FL =4944.862±
Exist. 15"# Storm Drain
Exist. Inlet Box Top=4948.38 FL=4944.92±
Exist. Inlet/Outlet Structure with 3.63" # Orifice Plate Top Berm=4950.02 Top Water=4949.52 FL Pond=4945.52, FL Outlet=4945.06± FL Box=4941.94±
Exist. Inlet Box Top=4945.42 FL=4941.98±
Const. Catch Basin Top=4933.60 FL=4929.97
Const. Catch Basin Top=4935.07 FL=4933.00
Const. Inlet Box Top=4925.67 FL=4923.00
Const. Inlet Box Top=4928.12
Const. Inlet Box Top=4929.83 FL=4928.12
Const. Inlet Box Top=4923.65 FL=4928.18
Const. Inlet Box Top=4935.76 FL=4933.47
Const. Inlet Box Top=4934.60 FL=4931.37
Const. Inlet Box Top=4930.12 FL=4926.57
Const. Inlet Box Top=4930.96 FL=4926.48
Const. Inlet Box Top=4930.12 FL=4929.02
Const. Inlet Box Top=4930.57 FL=4926.96
Const. Inlet Box Top=4930.12 FL=4929.57
Const. Inlet Box Top=4930.12 FL=4929.57
Const. Inlet Box Top=4930.12 FL=4929.57

Note:
1. Gaskets Shall Be Full Faced ⅛ "Rubber, Bolts Shall Be Corrosive Resistant Or Coated.

2. 4" FL X Plain End Spool Length May Vary Due To Dimensions Used by Different Manufacturers.

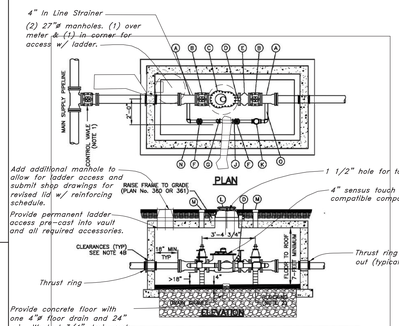
3. The Contractor Shall Verify All Material Lengths Prior To Ordering The Vault. Vault Shop Drawings And Submittal Reqd. Prior To Construction Of Vault.

4. Slope Box .5% Towards One End. Drain To Knockout.

5. Backfill With Structural Or Granular Backfill

6. See APWA Vault Detail for Vault Dimensions and Specifications.

7. All Contruction In Tooele City Rights of Way to conform to Tooele City Standards



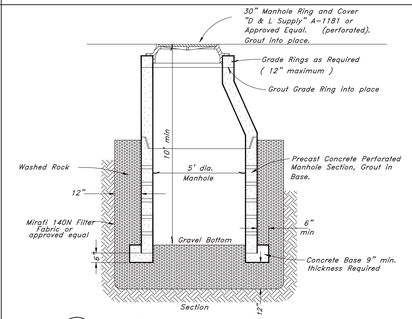
LEGEND

No.	*	ITEM	DESCRIPTION
A		3" OR 4" FLANGE x M.I. ADAPTER	
B		3" OR 4" GATE VALVE WITH 2"x2" OPERATING NUT	4" R.S.G.V.
C		3" OR 4" COMPOUND METER	4" Sensus T.R.C
D		2" TEST ASSEMBLY	
E		3" OR 4" CHECK VALVE	Lever Type
F		2" GATE VALVE	Lockable
G		2" METER FLANGE	
H			
I		2" MALE METER FLANGE	
J		2" CHECK VALVE	
L		27" FRAME AND COVER	PLAN No. 502
M		TOP SECTION OF VALVE BOX WITH LID	PLAN No. 574
N		CONCRETE BOX	PLAN No. 505
O		COPPER PIPING	
	*	FURNISHED BY AGENCY	

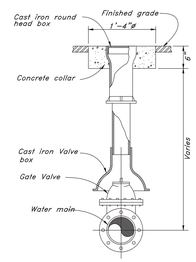
3" and 4" Compound meter with 2" bypass Plan No. **523**

Note: T.R.C. = Touch Read Compatible w/ Radio Read

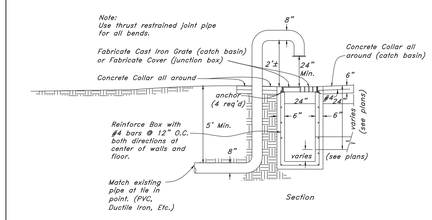
2 APWA 4" Water Meter Vault
Not to Scale



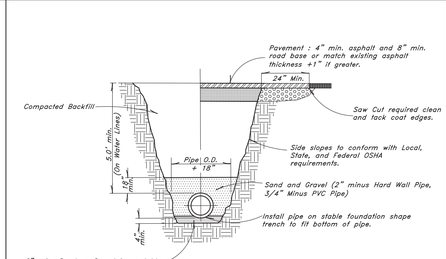
3 Typical Sump Detail
Not to Scale



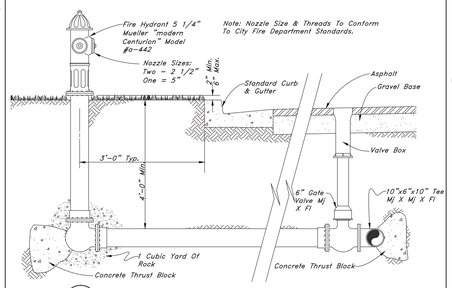
6 Typical Gate Valve
Not to Scale



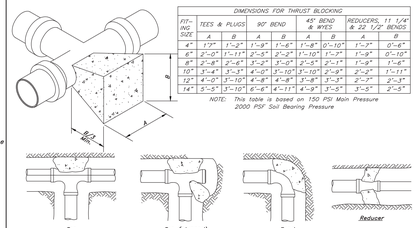
9 Goose Neck Thrust Restrained Joint
Not to Scale



10 Typical Trench Detail
Not to Scale



4 Typical Fire Hydrant & Valve Connection
Not to Scale

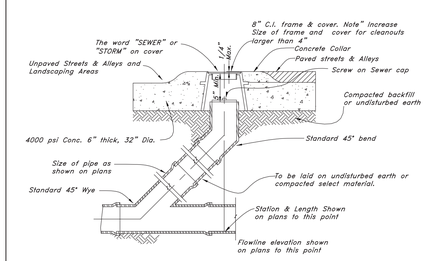


DIMENSIONS FOR THRUST BLOCKING

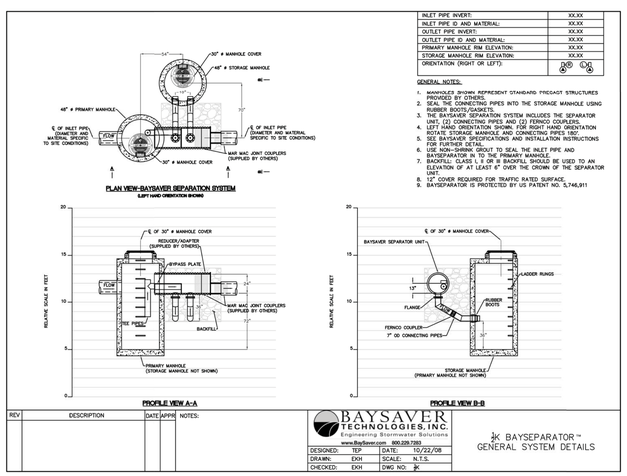
FITTING SIZE	TEES & PLUGS A	TEES & PLUGS B	90° BEND A	90° BEND B	45° BEND & WYES A	45° BEND & WYES B	REDUCERS, 11 1/4° & 22 1/2° BENDS A	REDUCERS, 11 1/4° & 22 1/2° BENDS B
4"	1'-7"	1'-2"	1'-9"	1'-6"	1'-8"	0'-10"	1'-7"	0'-6"
6"	2'-0"	1'-11"	2'-5"	2'-2"	1'-10"	1'-2"	1'-9"	0'-10"
8"	2'-8"	2'-6"	3'-2"	3'-0"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

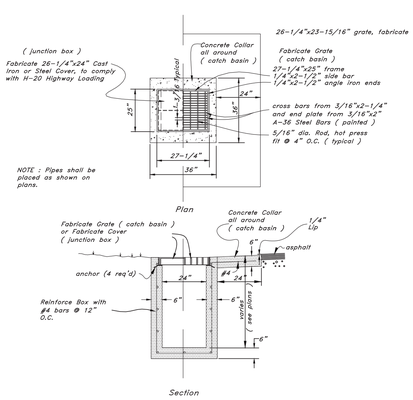
7 Thrust Blocking Details
Not to Scale



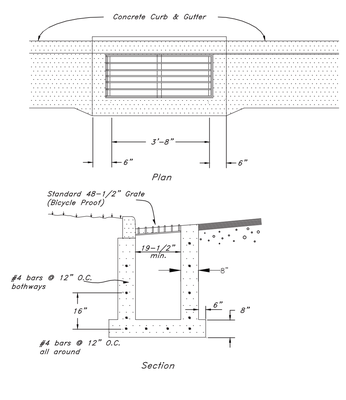
11 Sewer, Storm, and Roof Drain Cleanout Detail
Not to Scale



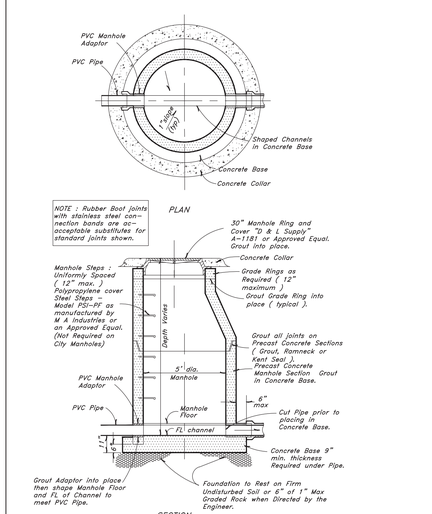
1 1/2K Baysaver Unit
Not to Scale



5 Catch Basin/Junction Box
Not to Scale



8 Typical Inlet Box
in curb & gutter
Not to Scale



12 Typical Manhole Detail
Not to Scale

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
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METHOD STUDIO INC.
242 south 400 east
salt lake city, utah 84111
phone:(801) 532-4422

consultants:

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project:

Tooele Applied Technology College - New Building

88 South Tooele Blvd
Tooele, UT 84074

project#: 11.0420
date: 1/20/2011

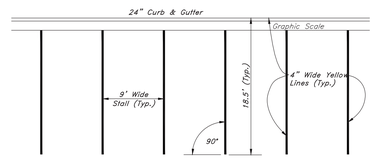
revisions :

Construction Details

sheet:

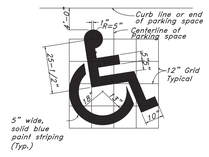
CD-501

100% DFCM Review Set



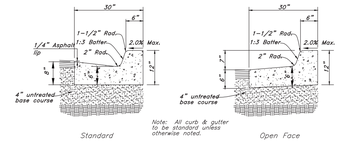
2 Typical Parking Lot Striping Plan

Not to Scale



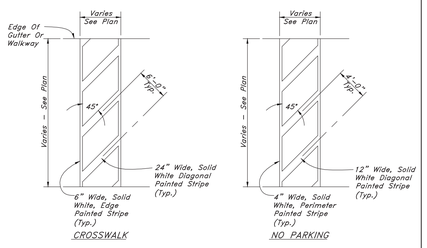
5 Handicap Symbol

Not to Scale



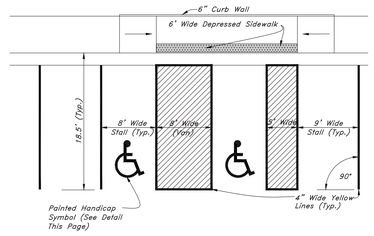
8 Typical Section - 30" Curb & Gutter

Not to Scale



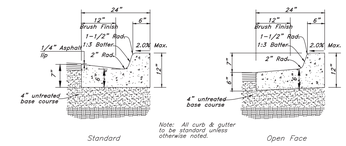
3 Striping

Not to Scale



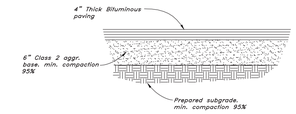
6 Typical ADA Parking Striping Plan

Not to Scale



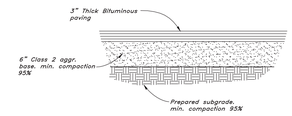
9 Typical Section - 24" Curb & Gutter

Not to Scale



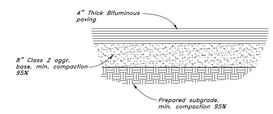
11 Typical Truck Driving School Lot Light Traffic Areas

Not to Scale



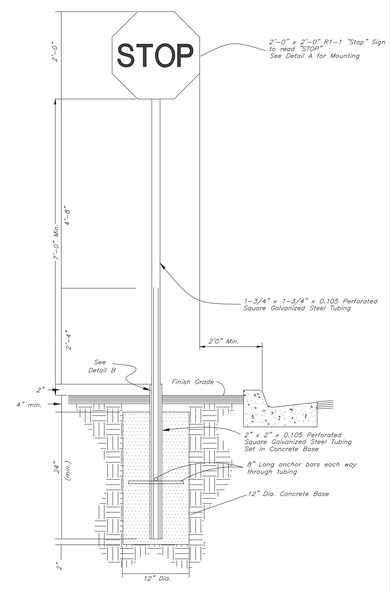
12 Typical Bituminous Pavement Section Light Traffic Areas

Not to Scale



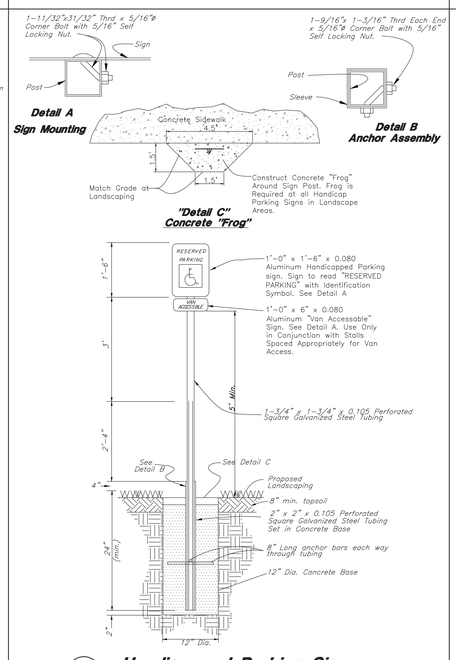
13 Typical Bituminous Pavement Section Heavy Duty Drives

Not to Scale



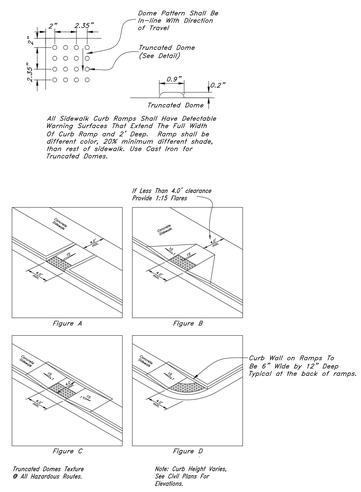
1 Stop Sign

Not to Scale



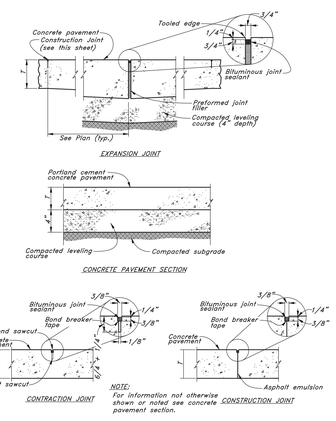
4 Handicapped Parking Sign

Not to Scale



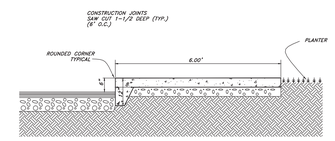
7 Typical ADA Ramp Detail

Not to Scale



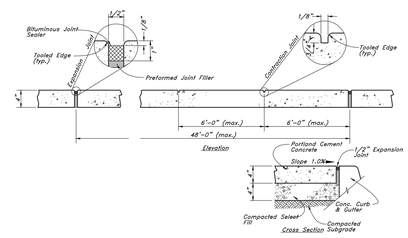
10 Portland Cement Concrete Pavement

Not to Scale



14 Thickened Edge Walk

Not to Scale



15 Concrete Sidewalk

Not to Scale

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242 south 400 east
salt lake city, utah 84111
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project:

Tooele Applied Technology College - New Building

88 South Tooele Blvd
Tooele, UT 84074

project#: 11.06.20
date: 1/20/2011

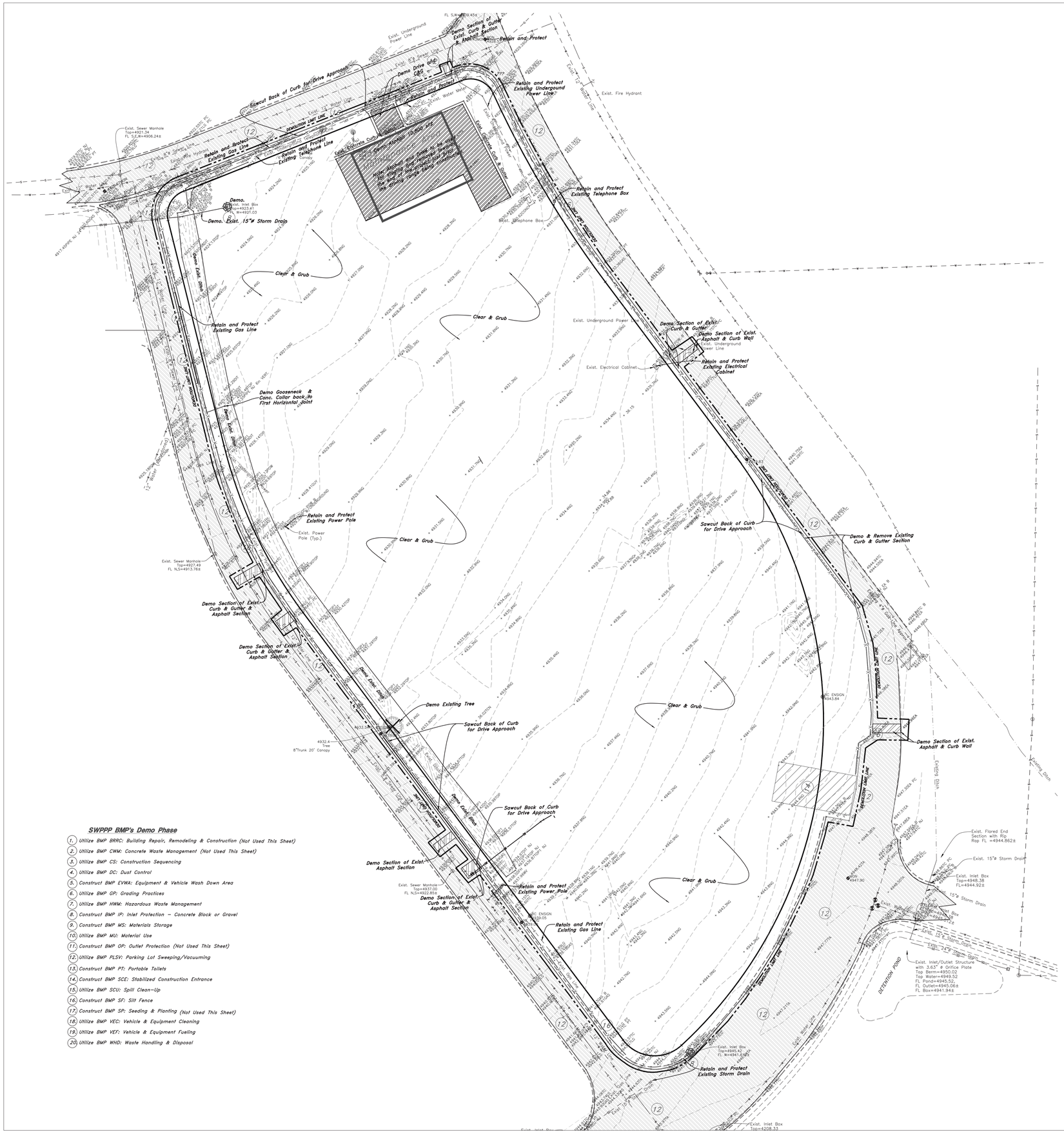
revisions :

Construction Details

sheet:

CD-502

100% DFCM Review Set



Scale: 1" = 40'

40 0 10 20 40 50 60 70 80

Graphic Scale

Legend

(Note: All items may not appear on drawing)

San. Sewer Manhole	S
Water Manhole	W
Storm Drain Manhole	D
Electrical Manhole	E
Catch Basins	
Exist. Fire Hydrant	
Fire Hydrant	
Exist. Water Valve	
Water Valve	
Sanitary Sewer	—S—
Culinary Water	—W—
Gas Line	—G—
Irrigation Line	—IW—
Storm Drain	—SD—
Telephone Line	—T—
Secondary Waterline	—SW—
Power Line	—P—
Fire Line	—F—
Land Drain	—LD—
Power pole	
Power pole w/guy	
Light Pole	
Fence	x x x
Flowline of ditch	
Overhead Power line	—OHP—
Corrugated Metal Pipe	CMP
Concrete Pipe	CP
Reinforced Concrete Pipe	RCP
Ductile Iron	DI
Polyvinyl Chloride	PVC
Top of Asphalt	TA
Edge of Asphalt	EA
Centerline	CL
Flowline	FL
Finish Floor	FF
Top of Curb	TC
Top of Wall	TWL
Top of Walk	TW
Top of Concrete	TCN
Natural Ground	NG
Finish Grade	FG
Fire Department Connection	FDC
Finish Contour	—90—
Exist. Contour	- - 90 - -
Finish Grade	95.33TA
Exist. Grade	95.72TA
Ridge Line	— R —
Direction of Flow	
Existing Asphalt	
New Asphalt	
Heavy Duty Asphalt	
Concrete	
Open Face Curb & Gutter	
Demo Tree	

BLUE STAKES
Call: TOLL FREE
1-800 662-4111
TWO WORKING DAYS BEFORE YOU DIG

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

SWPPP BMP's Demo Phase

1. *Utilize BMP BRRC: Building Repair, Remodeling & Construction (Not Used This Sheet)*
2. *Utilize BMP CWM: Concrete Waste Management (Not Used This Sheet)*
3. *Utilize BMP CS: Construction Sequencing*
4. *Utilize BMP DC: Dust Control*
5. *Construct BMP EVWA: Equipment & Vehicle Wash Down Area*
6. *Utilize BMP GP: Grading Practices*
7. *Utilize BMP HWM: Hazardous Waste Management*
8. *Construct BMP IP: Inlet Protection – Concrete Block or Gravel*
9. *Construct BMP MS: Materials Storage*
10. *Utilize BMP MU: Material Use*
11. *Construct BMP OP: Outlet Protection (Not Used This Sheet)*
12. *Utilize BMP PLSV: Parking Lot Sweeping/Vacuuming*
13. *Construct BMP PT: Portable Toilets*
14. *Construct BMP SCE: Stabilized Construction Entrance*
15. *Utilize BMP SCU: Spill Clean-Up*
16. *Construct BMP SF: Silt Fence*
17. *Construct BMP SP: Seeding & Planting (Not Used This Sheet)*
18. *Utilize BMP VEC: Vehicle & Equipment Cleaning*
19. *Utilize BMP VEF: Vehicle & Equipment Fueling*
20. *Utilize BMP WHD: Waste Handling & Disposal*

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242 south 400 east
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project:

Tooele Applied Technology College - New Building

88 South Tooele Blvd
Tooele, UT 84074

project#: 11.0420
date: 1/20/2011

revisions :

SWPP Plan Demo Phase

sheet:

CW-101

100% DFCM Review Set

Earthwork Analysis:
Finish Grade down to Existing Grade

Cut	13,875.5 cyd
Fill	-9,883.2 cyd
Net	3,992.25 cyd export

Required Fill for asphalt and concrete
Asphalt A=77,277 sf, 3" over 6" = 2,146.6 cyd
Med Asphalt =29,062 sf, 3" over 8" = 986.7 cyd
Heavy Duty Asphalt = 30,482 sf, 4" over 8" = 1,129.0 cyd
Concrete Apron = 4,191 sf, 8" over 4" = 155.2 cyd
Sidewalks = 7,083 sf, 5" over 4" = 196.8 cyd
Courtyard = 12,221 sf, 5" over 4" = 339.5 cyd
Building = 52,639 sf, 6" over 6" =1,949.6
Total Estimated Required Fill =6,903 cyd

Net total export =10,895.5 cubic yards

BLUE STAKES
Call: TOLL FREE
1-800
662-4111
TWO WORKING DAYS BEFORE YOU DIG

Scale: 1" = 40'

Graphic Scale

Legend
(Note: All items may not appear on drawing)

San. Sewer Manhole	S
Water Manhole	W
Storm Drain Manhole	D
Electrical Manhole	E
Catch Basins	
Exist. Fire Hydrant	
Fire Hydrant	
Exist. Water Valve	
Water Valve	
Sanitary Sewer	—S—
Culinary Water	—W—
Gas Line	—G—
Irrigation Line	—IW—
Storm Drain	—SD—
Telephone Line	—T—
Secondary Waterline	—SW—
Power Line	—P—
Fire Line	—F—
Land Drain	—LD—
Power pole	
Power pole w/guy	
Light Pole	
Fence	x x x
Flowline of ditch	
Overhead Power line	—OHP—
Corrugated Metal Pipe	CMP
Concrete Pipe	CP
Reinforced Concrete Pipe	RCP
Ductile Iron	DI
Polyvinyl Chloride	PVC
Top of Asphalt	TA
Edge of Asphalt	EA
Centerline	CL
Flowline	FL
Finish Floor	FF
Top of Curb	TC
Top of Wall	TWL
Top of Walk	TW
Top of Concrete	TCN
Natural Ground	NG
Finish Grade	FG
Fire Department Connection	FDC
Finish Contour	—90—
Exist. Contour	— 90 —
Finish Grade	95.33TA
Exist. Grade	95.721A
Ridge Line	— R —
Direction of Flow	
Existing Asphalt	
New Asphalt	
Heavy Duty Asphalt	
Concrete	
Open Face Curb & Gutter	
Demo Tree	

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13. Construct BMP PT: Portable Toilets
14. Construct BMP SCE: Stabilized Construction Entrance
15. Utilize BMP SCU: Spill Clean-Up
16. Construct BMP SF: Silt Fence
17. Construct BMP SP: Seeding & Planting
18. Utilize BMP VEC: Vehicle & Equipment Cleaning
19. Utilize BMP VET: Vehicle & Equipment Fueling
20. Utilize BMP WHD: Waste Handling & Disposal

General Grading Notes:

1. All work shall be in accordance with the City Public Works Standard.
2. Cut slopes shall be no steeper than 2 horizontal to 1 vertical.
3. Fill slopes shall be no steeper than 2 horizontal to 1 vertical.
4. Fills shall be compacted per the recommendations of the geotechnical report prepared for the project and shall be certified by the geotechnical engineer.
5. Areas to receive fill shall be properly prepared and approved by the City inspector and geotechnical Engineer prior to placing fill.
6. Fills shall be benched into competent material as per specifications and geotechnical report.
7. All trench backfill shall be tested and certified by the site geotechnical engineer per the grading code.
8. A geotechnical engineer shall perform periodic inspections and submit a complete report and map upon completion of the rough grading.
9. The final compaction report and certification from the geotechnical engineer shall contain the type of field testing performed. Each test shall be identified with the method of obtaining the in-place density, whether sand cone or drive ring and shall be so noted for each test. Sufficient maximum density determinations shall be performed to verify the accuracy of the maximum density curves used by the field technician.
10. Dust shall be controlled by watering.
11. The location and protection of all utilities is the responsibility of the permitee.
12. Approved protective measures and temporary drainage provisions must be used to protect adjoining properties during the grading project.
13. All public roadways must be cleared daily of all dirt, mud and debris deposited on them as a result of the grading operation. Cleaning is to be done to the satisfaction of the city engineer.
14. The site shall be cleared and grubbed of all vegetation and deleterious matter prior to grading.
15. The contractor shall provide sharing in accordance with OSHA requirements for trench walls.
16. Aggregate base shall be compacted per the geotechnical report prepared for the project.
17. Elevations shown on this plan are finish grades. Rough grades are the subgrades of the improvements shown hereon.
18. The recommendations in the following Geotechnical Engineering Report by xxxx are included in the requirements of grading and site preparation.
    The report is titled "GEOTECHNICAL ENGINEERING STUDY FOR TOOELE APPLIED TECHNOLOGY COLLEGE (TATC) UTAH COLLEGE OF APPLIED TECHNOLOGY TOOELE, UT"
    Job No.: AUA11-400-00 Address: 88 SOUTH TOOELE BLVD. TOOELE, UT 84074
    Dated: SEPTEMBER 2011
19 As part of the construction documents, owner has provided contractor with a topographic survey performed by manual or aerial means. Such survey was prepared for project design purposes and is provided to the contractor as a courtesy. It is expressly understood that such survey may not accurately reflect existing topographic conditions.
20. Erosion Control: Protect all inlet boxes, catch basins, etc. with straw bales or other approved method to strain the strom water during construction. Protect surrounding properties and streets from site runoff with sandbags and earth berms.

Curb and Gutter Construction Notes:

1. Open face gutter shall be constructed where drainage is directed away from curb.
2. Open face gutter locations are indicated by shading and notes on site and grading plan.
3. It is the responsibility of the surveyor to adjust top of curb grades at the time construction staking.
4. Refer to the typical details for a standard and open face curb and gutter for dimensions.
5. Transitions between open face and standard curb and gutter are to be smooth. Hand form these areas if necessary.

ADA Notes:

Contractor must maintain a running slope on Accessible routes no steeper than 5.0% (1:20). The cross slope for Accessible routs must be no steeper than 2.0% (1:50). All Accessible routes must have a minimum clear width of 36". If grades on plans do not meet this requirement notify Consultants immediately.

The Client, Contractor, and Subcontractor should immediately notify the Consultant of any conditions of the project that they believe do not comply with the current state of the ADA and/or FHAA.

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

UTAH LICENSED PROFESSIONAL ENGINEER No. 5339572 CHRISTIAN MICHAELSON 11/01/2011 STATE OF UTAH

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METHOD STUDIO INC.
242 south 400 east
salt lake city, utah 84111
phone:(801) 532-4422

consultants:

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

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project:

Tooele Applied Technology College - New Building

88 South Tooele Blvd
Tooele, UT 84074

project#: 11.0120
date: 1/20/2011

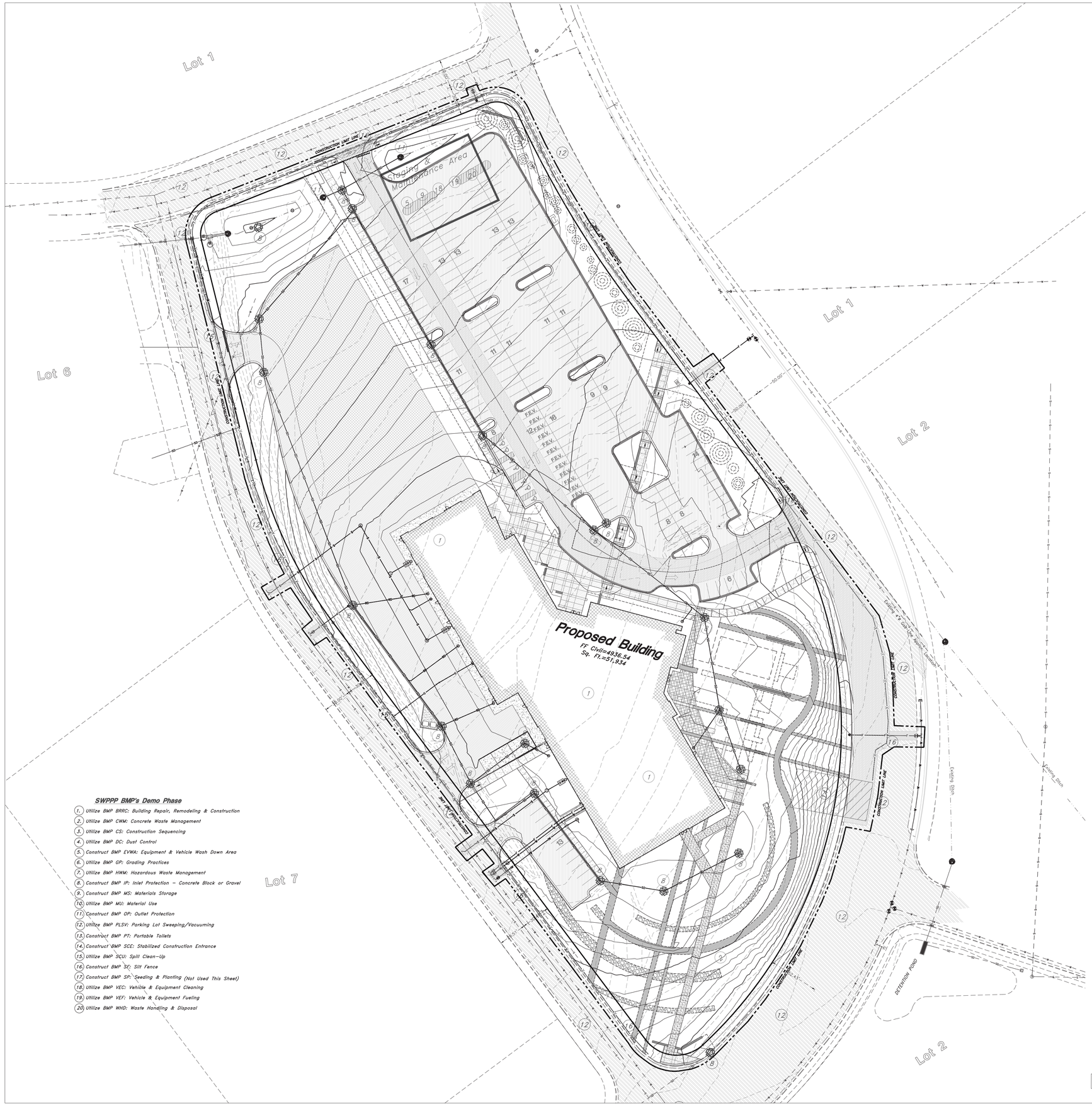
revisions :

SWPP Plan Grading Phase

sheet:

CW-102

100% DFCM Review Set



Scale: 1" = 40'

Graphic Scale

Legend

(Note: All items may not appear on drawing)

San. Sewer Manhole	S
Water Manhole	W
Storm Drain Manhole	D
Electrical Manhole	E
Catch Basins	
Exist. Fire Hydrant	
Fire Hydrant	
Exist. Water Valve	
Water Valve	
Sanitary Sewer	—S—
Culinary Water	—W—
Gas Line	—G—
Irrigation Line	—IW—
Storm Drain	—SD—
Telephone Line	—T—
Secondary Waterline	—SW—
Power Line	—P—
Fire Line	—F—
Land Drain	—LD—
Power pole	
Power pole w/guy	
Light Pole	
Fence	x x x
Flowline of ditch	
Overhead Power line	—OHP—
Corrugated Metal Pipe	CMP
Concrete Pipe	CP
Reinforced Concrete Pipe	RCP
Ductile iron	DI
Polyvinyl Chloride	PVC
Top of Asphalt	TA
Edge of Asphalt	EA
Centerline	CL
Flowline	FL
Finish Floor	FF
Top of Curb	TC
Top of Wall	TWL
Top of Walk	TW
Top of Concrete	TCN
Natural Ground	NG
Finish Grade	FG
Fire Department Connection	FDC
Finish Contour	—90—
Exist. Contour	--90--
Finish Grade	95.33TA
Exist. Grade	95.72TA
Ridge Line	—R—
Direction of Flow	
Existing Asphalt	
New Asphalt	
Heavy Duty Asphalt	
Concrete	
Open Face Curb & Gutter	
Demo Tree	

BLUE STAKES

Call: TOLL FREE

1-800 662-4111

TWO WORKING DAYS BEFORE YOU DIG

SWPPP BMP's Demo Phase

1. Utilize BMP BRRC: Building Repair, Remodeling & Construction
2. Utilize BMP CWM: Concrete Waste Management
3. Utilize BMP CS: Construction Sequencing
4. Utilize BMP DC: Dust Control
5. Construct BMP EVWA: Equipment & Vehicle Wash Down Area
6. Utilize BMP GP: Grading Practices
7. Utilize BMP HWM: Hazardous Waste Management
8. Construct BMP IP: Inlet Protection – Concrete Block or Gravel
9. Construct BMP MS: Materials Storage
10. Utilize BMP MU: Material Use
11. Construct BMP OP: Outlet Protection
12. Utilize BMP PLSV: Parking Lot Sweeping/Vacuuming
13. Construct BMP PT: Portable Toilets
14. Construct BMP SCE: Stabilized Construction Entrance
15. Utilize BMP SCU: Spill Clean-Up
16. Construct BMP SF: Silt Fence
17. Construct BMP SP: Seeding & Planting (Not Used This Sheet)
18. Utilize BMP VEC: Vehicle & Equipment Cleaning
19. Utilize BMP VEF: Vehicle & Equipment Fueling
20. Utilize BMP WHD: Waste Handling & Disposal

General Utility Notes:

1. Coordinate all utility connections to building with plumbing plans and building contractor.
2. Verify depth and location of all existing utilities prior to constructing any new utility lines. Notify Civil Engineer of any 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.
10. Final connections to all utilities shall be made by the contractor once the city has been notified and given time to schedule necessary inspections.

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.

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project:

Tooele Applied Technology College - New Building

88 South Tooele Blvd
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project#: 11.0.20
date: 1/20/2021

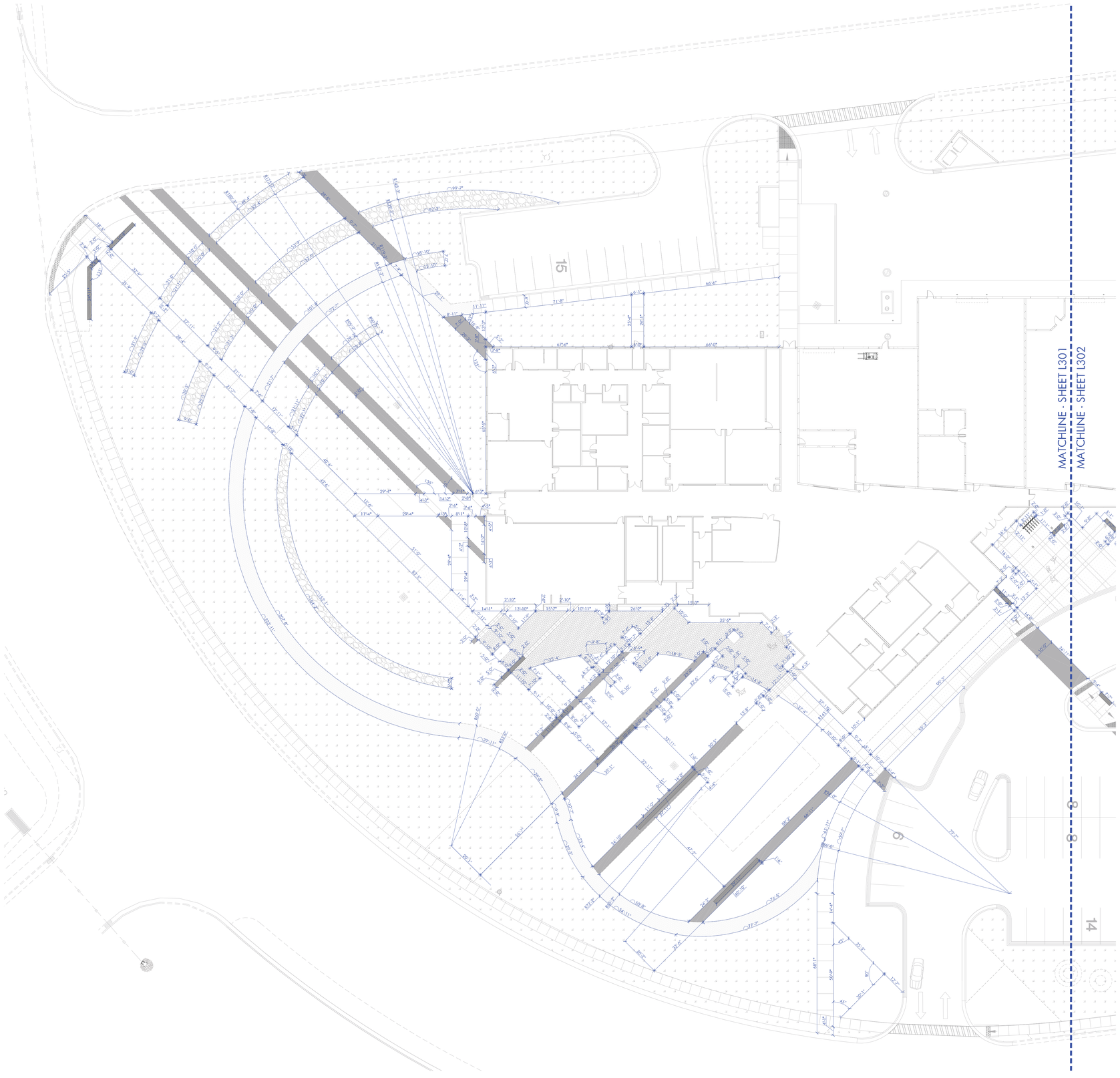
revisions :

SWPP Plan Utility Phase

sheet:

CW-103

100% DFCM Review Set



GENERAL DIMENSION PLAN NOTES:

1. IT IS THE CONTRACTORS RESPONSIBILITY TO VERIFY THAT ALL ELEMENTS ARE LAID OUT PROPERLY AND THAT THE "BASIS OF DESIGN" IS MET AND MAINTAINED FROM PLANS TO BUILT CONSTRUCTION.

2. THE DIMENSION PLAN IS FOR HORIZONTAL CONTROL OF ALL OF THE BUILT AND IMPORTANT ELEMENTS ON THE LANDSCAPE PLAN. THESE ELEMENTS SHALL BE, BUT ARE NOT LIMITED TO, PATIOS, SITE WALLS, COBBLE BANDS, METAL OR CONCRETE EDGING, WALKWAYS, ANGLES, ARCS, RADII, ETC.

3. DIMENSIONS ARE TAKEN FROM FIXED POINTS SUCH AS BUILDINGS AND EXISTING ELEMENTS NOTED ON PLAN. THEIR PRIMARY INTENT IS TO MAINTAIN THE "BASIS OF DESIGN".

4. CONTRACTOR TO FIELD VERIFY ALL DIMENSIONS AND ENSURE THAT THESE ELEMENTS ARE LAID OUT PROPERLY AND THAT NO APPARENT ERRORS OR OMISSIONS HAVE OCCURRED.

5. LANDSCAPE ARCHITECT SHALL BE NOTIFIED WITHIN (5) WORKING DAYS PRIOR TO SITE VERIFICATION OF ALL ELEMENTS.

6. LANDSCAPE ARCHITECT HAS THE RIGHT TO MOVE, MODIFY, OR SUGGEST ALTERNATIVE LOCATIONS AND/OR PLACEMENT IF "BASIS OF DESIGN" HAS NOT BEEN MET. HE SHALL DO SO AT HIS OWN DISCRETION.

7. CONTRACTOR SHALL NOTIFY LANDSCAPE ARCHITECT IMMEDIATELY IF DISCREPANCIES ARISE FROM THE TRANSLATION OF PLAN TO BUILT CONDITIONS, SO THAT SUITABLE ALTERNATIVES MAY BE PROPOSED AND/OR MODIFICATIONS TO PLANNED ELEMENTS MAY BE REVISED ON SITE.

0 20 40 80 feet

SCALE: 1" = 20'

NORTH

REGISTERED LANDSCAPE ARCHITECT
5197921
Brandon A. Reed
STATE OF UTAH

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consultants:

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project:

TATC

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project#: 0000
date: 1/20/2012

revisions :

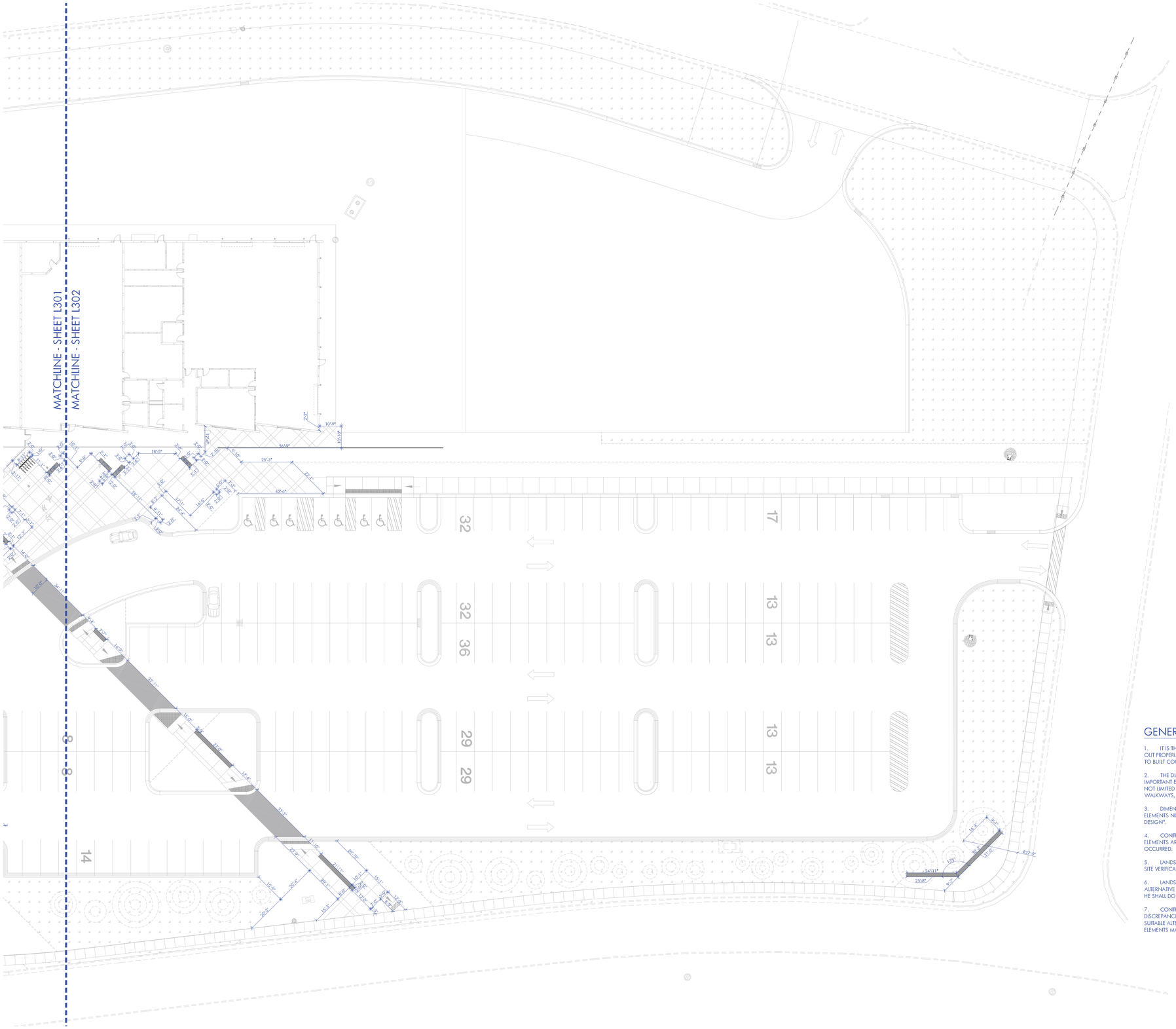
100% CONSTRUCTION DOCUMENTS

Dimension Plan

sheet:

L101

Project Status



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SCALE: 1" = 20'

NORTH

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Brandon A. Reed
STATE OF UTAH

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project:

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project#: 0000
date: 1/20/2012

revisions :

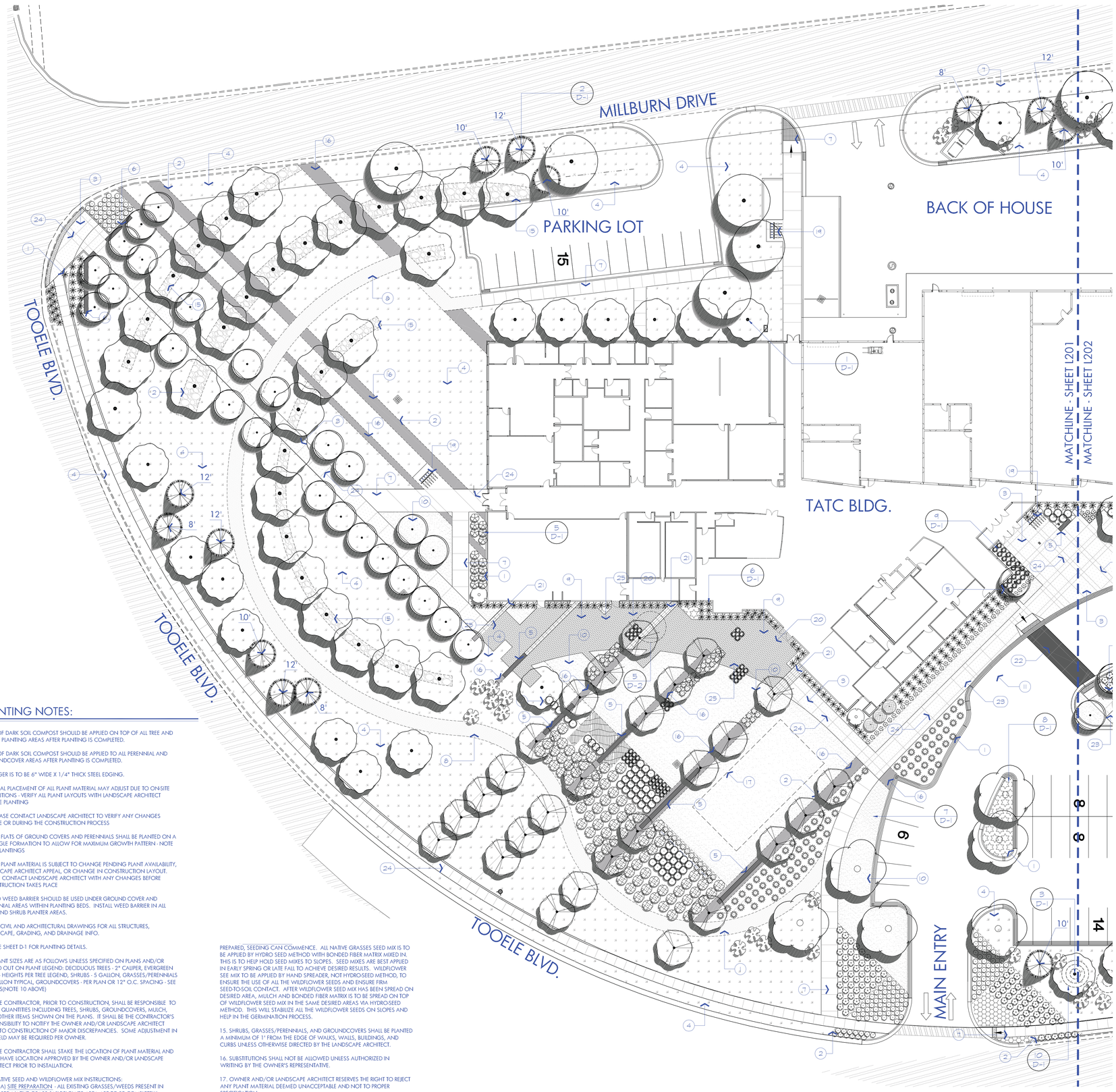
100% CONSTRUCTION DOCUMENTS

Dimension Plan

sheet:

L102

Project Status



PLANT SCHEDULE

TREES	QTY	COMMON NAME	CONT
	11	AUTUMN BLAZE MAPLE	2" CAL
	38	FLAME AMUR MAPLE	2" CAL
	20	MIYABEI MAPLE	2" CAL
	31	DURAHEAT RIVER BIRCH - SINGLE TRUNK	2" CAL
	27	EASTERN REDBUD	2" CAL
	21	SHADEMASTER LOCUST	2" CAL
	52	PRAIRIE FIRE CRABAPPLE	2" CAL
	36	COLORADO GREEN SPRUCE SEE PLAN FOR SPECIFIC SIZES - CONICAL AND LAYERED IN GROWTH HABIT	Varied Sizes - Note Plan

SHRUBS	QTY	COMMON NAME	CONT
	197	KARL FOERSTER	5 gal
	7	PAMPAS GRASS	5 gal
	53	COMPACT BURNING BUSH/DWARF BURNING BUSH	5 gal
	69	BLUE OAT GRASS	1 gal
	257	JAPANESE BLOOD GRASS	1 gal
	88	ADAGIO EULALIA GRASS	1 gal
	184	HAMELN DWARF FOUNTAIN GRASS	1 gal
	57	KARLIE ROSE FOUNTAIN GRASS	1 gal
	111	CUTLEAF SMOOTH SUMAC	5 gal
	233	MAY KNIGHT SALVIA	1 gal
	128	SPREADING ENGLISH YEW	5 gal
	3	ALLEGHANY VIBURNUM	5 gal
	146	IVORY TOWER YUCCA	5 gal

GROUND COVERS	COMMON NAME	CONT
	PURPLE ICE PLANT	FLAT @ 12" OC
	YELLOW ICE PLANT	FLAT @ 12" OC
	VOODOO SEDUM	FLAT @ 12" OC
	BIOGRASS	sod

REFERENCE NOTES:

SYMBOL	DESCRIPTION
1	PLANTING AREA (TYP.)
2	4"X6" INLAYED CONCRETE EDGE - BASE BID 1/4" STEEL EDGING (TYP.) - ALT.
3	PLAIN GRAY CONCRETE WITH SCORE JOINTS PER PLAN - BASE BID 'SANDSCAPE' CONCRETE FINISH WITH SCORE JOINTS PER PLAN - ALT.
4	NATIVE GRASSES/WILDFLOWER AREA(S) - TYP.
5	2' WIDE BOARD FORM CONCRETE SEAT WALLS - MATCH BOARD FORM TEXTURE ON TATC BUILDING (TYP.)
6	TATC MONUMENT SIGNAGE - PER ARCHITECT
7	BROOM FINISH CONCRETE WALKWAY (TYP.)
8	CRUSHER FINES MEANDERING WALKING PATH (TYP.)
9	PLAZA/ENTERTAINING SPACE
10	TURF AREA (TYP.)
11	DROP OFF ZONE
12	SNOW STORAGE AREA
13	NATIVE GRASS DETENTION BASIN
14	WALL (PER ARCHITECT)
15	3"-4" GRAY, ROUND, AND SMOOTH COBBLE BANDS (TYP.)
16	1" GRAY GRAVEL BANDS (TYP.)
17	AREA OUTLINE FOR VOLLEY BALL IN TURF AREA
18	PROPOSED BIKE RACK LOCATION - PER ARCHITECT
20	36" X 6" X 2-1/2" CONCRETE PAVER - GRANADA WHITE (SEE DETAILS)
21	36" X 12" X 2-1/2" CONCRETE PAVER - FRENCH GRAY (SEE DETAILS)
22	'SANDSCAPE' CONCRETE - PLAIN GRAY - ALT.
23	'SANDSCAPE' CONCRETE - SLATE - CONSULT WITH LANDSCAPE ARCHITECT FOR FINAL COLOR - ALT.
24	CONCRETE SCORE JOINTS (TYP.)
25	MODULAR CONCRETE UNIT PAVER PATIO (TYP.) - SEE PAVING PATTERN ENLARGEMENT DETAIL FOR SNAPSHOT VIEW OF PAVER LAYOUT.

PLANTING NOTES:

1. 4" OF DARK SOIL COMPOST SHOULD BE APPLIED ON TOP OF ALL TREE AND SHRUB PLANTING AREAS AFTER PLANTING IS COMPLETED.

2. 1" OF DARK SOIL COMPOST SHOULD BE APPLIED TO ALL PERENNIAL AND GROUNDCOVER AREAS AFTER PLANTING IS COMPLETED.

3. EDGER IS TO BE 6" WIDE X 1/4" THICK STEEL EDGING.

4. FINAL PLACEMENT OF ALL PLANT MATERIAL MAY ADJUST DUE TO ON-SITE CONDITIONS - VERIFY ALL PLANT LAYOUTS WITH LANDSCAPE ARCHITECT BEFORE PLANTING

5. PLEASE CONTACT LANDSCAPE ARCHITECT TO VERIFY ANY CHANGES BEFORE OR DURING THE CONSTRUCTION PROCESS

6. ALL FLATS OF GROUND COVERS AND PERENNIALS SHALL BE PLANTED ON A TRIANGLE FORMATION TO ALLOW FOR MAXIMUM GROWTH PATTERN - NOTE O.C. PLANTINGS

7. ALL PLANT MATERIAL IS SUBJECT TO CHANGE PENDING PLANT AVAILABILITY, LANDSCAPE ARCHITECT APPEAL, OR CHANGE IN CONSTRUCTION LAYOUT. PLEASE CONTACT LANDSCAPE ARCHITECT WITH ANY CHANGES BEFORE CONSTRUCTION TAKES PLACE

8. NO WEED BARRIER SHOULD BE USED UNDER GROUND COVER AND PERENNIAL AREAS WITHIN PLANTING BEDS. INSTALL WEED BARRIER IN ALL TREE AND SHRUB PLANTER AREAS.

9. SEE CIVIL AND ARCHITECTURAL DRAWINGS FOR ALL STRUCTURES, HARDSCAPE, GRADING, AND DRAINAGE INFO.

10. SEE SHEET D-1 FOR PLANTING DETAILS.

11. PLANT SIZES ARE AS FOLLOWS UNLESS SPECIFIED ON PLANS AND/OR CALLED OUT ON PLANT LEGEND: DECIDUOUS TREES - 2" CALIPER, EVERGREEN TREES - HEIGHTS PER TREE LEGEND, SHRUBS - 5 GALLON, GRASSES/PERENNIALS - 1 GALLON TYPICAL, GROUNDCOVERS - PER PLAN OR 12" O.C. SPACING - SEE DETAILS(NOTE 10 ABOVE)

12. THE CONTRACTOR, PRIOR TO CONSTRUCTION, SHALL BE RESPONSIBLE TO VERIFY QUANTITIES INCLUDING TREES, SHRUBS, GROUNDCOVERS, MULCH, AND OTHER ITEMS SHOWN ON THE PLANS. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO NOTIFY THE OWNER AND/OR LANDSCAPE ARCHITECT PRIOR TO CONSTRUCTION OF MAJOR DISCREPANCIES. SOME ADJUSTMENT IN THE FIELD MAY BE REQUIRED PER OWNER.

13. THE CONTRACTOR SHALL STAKE THE LOCATION OF PLANT MATERIAL AND SHALL HAVE LOCATION APPROVED BY THE OWNER AND/OR LANDSCAPE ARCHITECT PRIOR TO INSTALLATION.

14. NATIVE SEED AND WILDFLOWER MIX INSTRUCTIONS:
A) SITE PREPARATION - ALL EXISTING GRASSES/WEEDS PRESENT IN PROPOSED NATIVE GRASS/WILDFLOWER AREA ARE TO BE COMPLETELY ERADICATED. CONTRACTOR IS TO COMPLETE ANY AND ALL APPLICABLE SITE PREPARATION METHODS FOUND AT THE FOLLOWING LINK: HTTP://WWW.WILDFLOWERFARM.COM/INDEX.PHP?PAGE&PAGE_ID=SP CONTACT PAUL JENKINS OF WILDFLOWER FARMS AT 1-866-476-9453 FOR FURTHER INFORMATION
B) SEED INSTALLATION - ONCE THE AREA HAS BEEN PROPERLY PREPARED, SEEDING CAN COMMENCE. ALL NATIVE GRASSES SEED MIX IS TO BE APPLIED BY HYDRO SEED METHOD WITH BONDED FIBER MATRIX MIXED IN. THIS IS TO HELP HOLD SEED MIXES TO SLOPES. SEED MIXES ARE BEST APPLIED IN EARLY SPRING OR LATE FALL TO ACHIEVE DESIRED RESULTS. WILDFLOWER SEE MIX TO BE APPLIED BY HAND SPREADER, NOT HYDRO-SEED METHOD, TO ENSURE THE USE OF ALL THE WILDFLOWER SEEDS AND ENSURE FIRM SEED-TO-SOIL CONTACT. AFTER WILDFLOWER SEED MIX HAS BEEN SPREAD ON DESIRED AREA, MULCH AND BONDED FIBER MATRIX IS TO BE SPREAD ON TOP OF WILDFLOWER SEED MIX IN THE SAME DESIRED AREAS VIA HYDRO-SEED METHOD. THIS WILL STABILIZE ALL THE WILDFLOWER SEEDS ON SLOPES AND HELP IN THE GERMINATION PROCESS.

15. SHRUBS, GRASSES/PERENNIALS, AND GROUNDCOVERS SHALL BE PLANTED A MINIMUM OF 1' FROM THE EDGE OF WALKS, WALLS, BUILDINGS, AND CURBS UNLESS OTHERWISE DIRECTED BY THE LANDSCAPE ARCHITECT.

16. SUBSTITUTIONS SHALL NOT BE ALLOWED UNLESS AUTHORIZED IN WRITING BY THE OWNER'S REPRESENTATIVE.

17. OWNER AND/OR LANDSCAPE ARCHITECT RESERVES THE RIGHT TO REJECT ANY PLANT MATERIAL DEEMED UNACCEPTABLE AND NOT TO PROPER SPECIFICATION.

18. PRIOR TO COMMENCEMENT OF WORK, THE CONTRACTOR SHALL VERIFY LOCATIONS AND DEPTHS OF UNDERGOUND UTILITY INSTALLATION THAT MAY BE AFFECTED BY HIS WORK AND SHALL BE RESPONSIBLE FOR DAMAGES TO SUCH INSTALLATION CAUSED AS A RESULT OF LANDSCAPE INSTALLATIONS.

0 20 40 80 feet
SCALE: 1" = 20'
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Brandon A. Reed
STATE OF UTAH

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project:

TATC

Enter address here

project#: 0000
date: 1/20/2012

revisions :

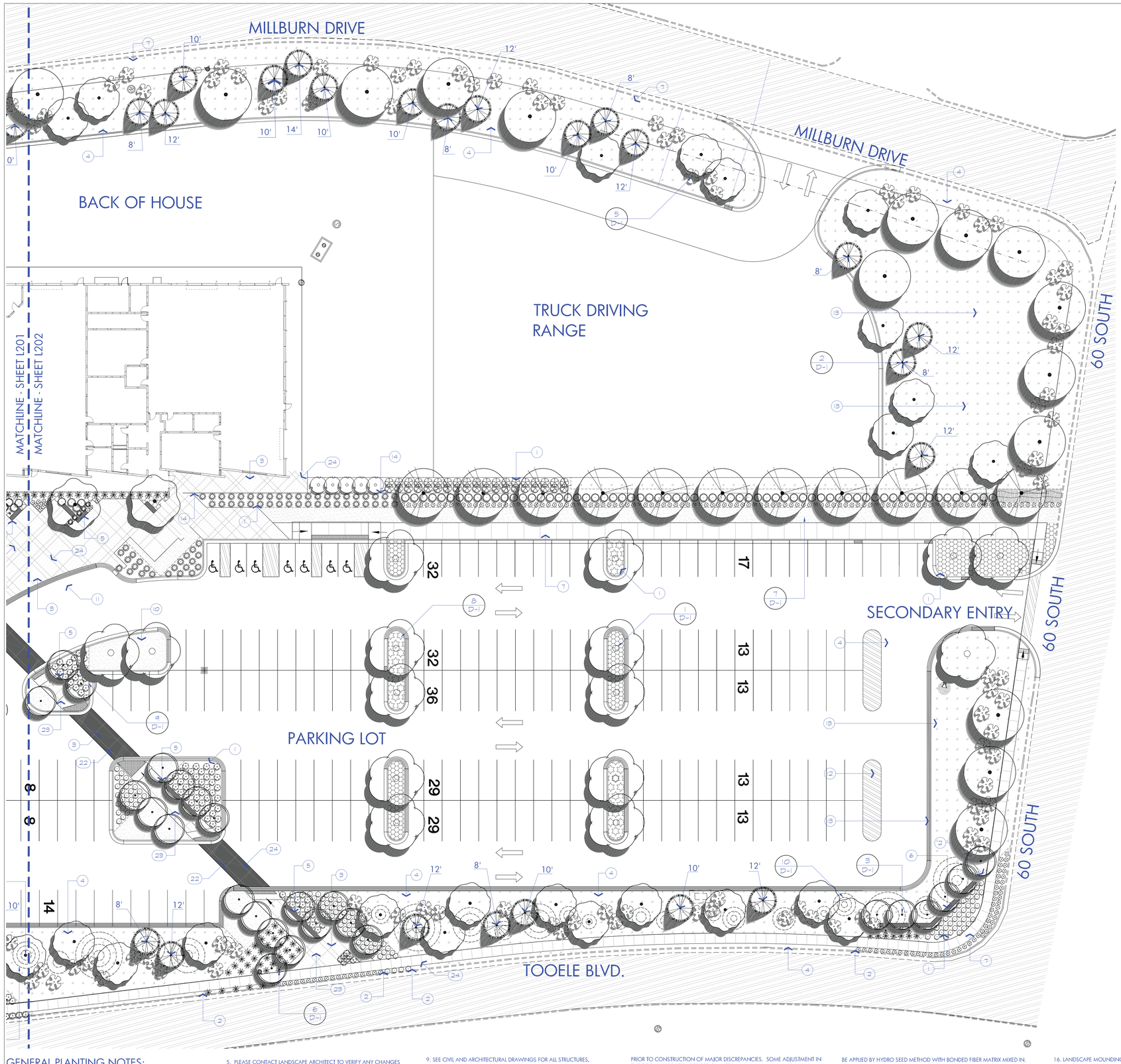
100% CONSTRUCTION DOCUMENTS

Landscape Plan

sheet:

L201

Project Status



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	7	PAMPAS GRASS	5 gal
	53	COMPACT BURNING BUSH/DWARF BURNING BUSH	5 gal
	69	BLUE OAT GRASS	1 gal
	257	JAPANESE BLOOD GRASS	1 gal
	88	ADAGIO EULALIA GRASS	1 gal
	184	HAMELN DWARF FOUNTAIN GRASS	1 gal
	57	KARLIE ROSE FOUNTAIN GRASS	1 gal
	111	CUTLEAF SMOOTH SUMAC	5 gal
	233	MAY KNIGHT SALVIA	1 gal
	128	SPREADING ENGLISH YEW	5 gal
	3	ALLEGHANY VIBURNUM	5 gal
	146	IVORY TOWER YUCCA	5 gal

GROUND COVERS	COMMON NAME	CONT
	PURPLE ICE PLANT	FLAT @ 12" OC
	YELLOW ICE PLANT	FLAT @ 12" OC
	VOODOO SEDUM	FLAT @ 12" OC
	BIOGRASS	sod

REFERENCE NOTES:

SYMBOL	DESCRIPTION
1	PLANTING AREA (TYP.)
2	4"X6" INLAYED CONCRETE EDGE - BASE BID 1/4" STEEL EDGING (TYP.) - ALT.
3	PLAIN GRAY CONCRETE WITH SCORE JOINTS PER PLAN - BASE BID `SANDSCAPE` CONCRETE FINISH WITH SCORE JOINTS PER PLAN - ALT.
4	NATIVE GRASSES/WILDFLOWER AREA(S) - TYP.
5	2' WIDE BOARD FORM CONCRETE SEAT WALLS - MATCH BOARD FORM TEXTURE ON TATC BUILDING (TYP.)
6	TATC MONUMENT SIGNAGE - PER ARCHITECT
7	BROOM FINISH CONCRETE WALKWAY (TYP.)
8	CRUSHER FINES MEANDERING WALKING PATH (TYP.)
9	PLAZA/ENTERTAINING SPACE
10	TURF AREA (TYP.)
11	DROP OFF ZONE
12	SNOW STORAGE AREA
13	NATIVE GRASS DETENTION BASIN
14	WALL (PER ARCHITECT)
15	3"-4" GRAY, ROUND, AND SMOOTH COBBLE BANDS (TYP.)
16	1" GRAY GRAVEL BANDS (TYP.)
17	AREA OUTLINE FOR VOLLEY BALL IN TURF AREA
18	PROPOSED BIKE RACK LOCATION - PER ARCHITECT
20	36" X 6" X 2-1/2" CONCRETE PAVER - GRANADA WHITE (SEE DETAILS)
21	36" X 12" X 2-1/2" CONCRETE PAVER - FRENCH GRAY (SEE DETAILS)
22	`SANDSCAPE` CONCRETE - PLAIN GRAY - ALT.
23	`SANDSCAPE` CONCRETE - SLATE - CONSULT WITH LANDSCAPE ARCHITECT FOR FINAL COLOR - ALT.
24	CONCRETE SCORE JOINTS (TYP.)
25	MODULAR CONCRETE UNIT PAVER PATIO (TYP.) - SEE PAVING PATTERN ENLARGEMENT DETAIL FOR SNAPSHOT VIEW OF PAVER LAYOUT.

GENERAL PLANTING NOTES:

1. 4" OF DARK SOIL COMPOST SHOULD BE APPLIED ON TOP OF ALL TREE AND SHRUB PLANTING AREAS AFTER PLANTING IS COMPLETED.

2. 1" OF DARK SOIL COMPOST SHOULD BE APPLIED TO ALL PERENNIAL AND GROUNDCOVER AREAS AFTER PLANTING IS COMPLETED.

3. METAL LANDSCAPE EDGING. SEE SPECIFICATIONS FOR MORE INFO.

4. FINAL PLACEMENT OF ALL PLANT MATERIAL MAY ADJUST DUE TO ON-SITE CONDITIONS - VERIFY ALL PLANT LAYOUTS WITH LANDSCAPE ARCHITECT BEFORE PLANTING

5. PLEASE CONTACT LANDSCAPE ARCHITECT TO VERIFY ANY CHANGES BEFORE OR DURING THE CONSTRUCTION PROCESS

6. ALL FLATS OF GROUND COVERS AND PERENNIALS SHALL BE PLANTED ON A TRIANGLE FORMATION TO ALLOW FOR MAXIMUM GROWTH PATTERN - NOTE O.C. PLANTINGS

7. ALL PLANT MATERIAL IS SUBJECT TO CHANGE PENDING PLANT AVAILABILITY, LANDSCAPE ARCHITECT APPEAL, OR CHANGE IN CONSTRUCTION LAYOUT. PLEASE CONTACT LANDSCAPE ARCHITECT WITH ANY CHANGES BEFORE CONSTRUCTION TAKES PLACE

8. NO WEED BARRIER SHOULD BE USED UNDER GROUND COVER AND PERENNIAL AREAS WITHIN PLANTING BEDS. INSTALL WEED BARRIER IN ALL TREE AND SHRUB PLANTER AREAS.

9. SEE CIVIL AND ARCHITECTURAL DRAWINGS FOR ALL STRUCTURES, HARDSCAPE, GRADING, AND DRAINAGE INFO.

10. SEE SHEET D-1 FOR PLANTING DETAILS.

11. PLANT SIZES ARE AS FOLLOWS UNLESS SPECIFIED ON PLANS AND/OR CALLED OUT ON PLANT LEGEND: DECIDUOUS TREES - 2" CALIPER, EVERGREEN TREES - HEIGHTS PER TREE LEGEND, SHRUBS - 5 GALLON, GRASSES/PERENNIALS - 1 GALLON TYPICAL, GROUNDCOVERS - PER PLAN OR 12" O.C. SPACING - SEE DETAILS(NOTE 10 ABOVE)

12. THE CONTRACTOR, PRIOR TO CONSTRUCTION, SHALL BE RESPONSIBLE TO VERIFY QUANTITIES INCLUDING TREES, SHRUBS, GROUNDCOVERS, MULCH, AND OTHER ITEMS SHOWN ON THE PLANS. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO NOTIFY THE OWNER AND/OR LANDSCAPE ARCHITECT PRIOR TO CONSTRUCTION OF MAJOR DISCREPANCIES. SOME ADJUSTMENT IN THE FIELD MAY BE REQUIRED PER OWNER.

13. THE CONTRACTOR SHALL STAKE THE LOCATION OF PLANT MATERIAL AND SHALL HAVE LOCATION APPROVED BY THE OWNER AND/OR LANDSCAPE ARCHITECT PRIOR TO INSTALLATION.

14. NATIVE SEED AND WILDFLOWER MIX INSTRUCTIONS:
A) SITE PREPARATION - ALL EXISTING GRASSES/WEEDS PRESENT IN PROPOSED NATIVE GRASS/WILDFLOWER AREA ARE TO BE COMPLETELY ERADICATED. CONTRACTOR IS TO COMPLETE ANY AND ALL APPLICABLE SITE PREPARATION METHODS FOUND AT THE FOLLOWING LINK: HTTP://WWW.WILDFLOWERFARM.COM/INDEX.PHP?P=PAGE&PAGE_ID=5P
B) SEED INSTALLATION - ONCE THE AREA HAS BEEN PROPERLY PREPARED, SEEDING CAN COMMENCE. ALL NATIVE GRASSES SEED MIX IS TO BE APPLIED BY HYDRO SEED METHOD WITH BONDED FIBER MATRIX MIXED IN. THIS IS TO HELP HOLD SEED MIXES TO SLOPES. SEED MIXES ARE BEST APPLIED IN EARLY SPRING OR LATE FALL TO ACHIEVE DESIRED RESULTS. WILDFLOWER SEE MIX TO BE APPLIED BY HAND SPREADER, NOT HYDRO-SEED METHOD, TO ENSURE THE USE OF ALL THE WILDFLOWER SEEDS AND ENSURE FIRM SEED-TO-SOIL CONTACT. AFTER WILDFLOWER SEED MIX HAS BEEN SPREAD ON DESIRED AREA, MULCH AND BONDED FIBER MATRIX IS TO BE SPREAD ON TOP OF WILDFLOWER SEED MIX IN THE SAME DESIRED AREAS VIA HYDRO-SEED METHOD. THIS WILL STABILIZE ALL THE WILDFLOWER SEEDS ON SLOPES AND HELP IN THE GERMINATION PROCESS.

15. SHRUBS, GRASSES/PERENNIALS, AND GROUNDCOVERS SHALL BE PLANTED A MINIMUM OF 1' FROM THE EDGE OF WALKS, WALLS, BUILDINGS, AND CURBS UNLESS OTHERWISE DIRECTED BY THE LANDSCAPE ARCHITECT.

16. LANDSCAPE MOUNDING BEHIND NORTH EAST MONUMENT SIGN TO BE LEVEL AND ALLOW FOR TREES TO ALL BE PLANTED AT SAME HEIGHT.

17. SUBSTITUTIONS SHALL NOT BE ALLOWED UNLESS AUTHORIZED IN WRITING BY THE OWNER'S REPRESENTATIVE.

18. OWNER AND/OR LANDSCAPE ARCHITECT RESERVES THE RIGHT TO REJECT ANY PLANT MATERIAL DEEMED UNACCEPTABLE AND NOT TO PROPER SPECIFICATION.

19. PRIOR TO COMMENCEMENT OF WORK, THE CONTRACTOR SHALL VERIFY LOCATIONS AND DEPTHS OF UNDERGOUND UTILITY INSTALLATION THAT MAY BE AFFECTED BY HIS WORK AND SHALL BE RESPONSIBLE FOR DAMAGES TO SUCH INSTALLATION CAUSED AS A RESULT OF LANDSCAPE INSTALLATIONS.

0 20 40 80 feet
SCALE: 1" = 20'
NORTH

REGISTERED LANDSCAPE ARCHITECT # 5197921 Brandon A. Reed STATE OF UTAH

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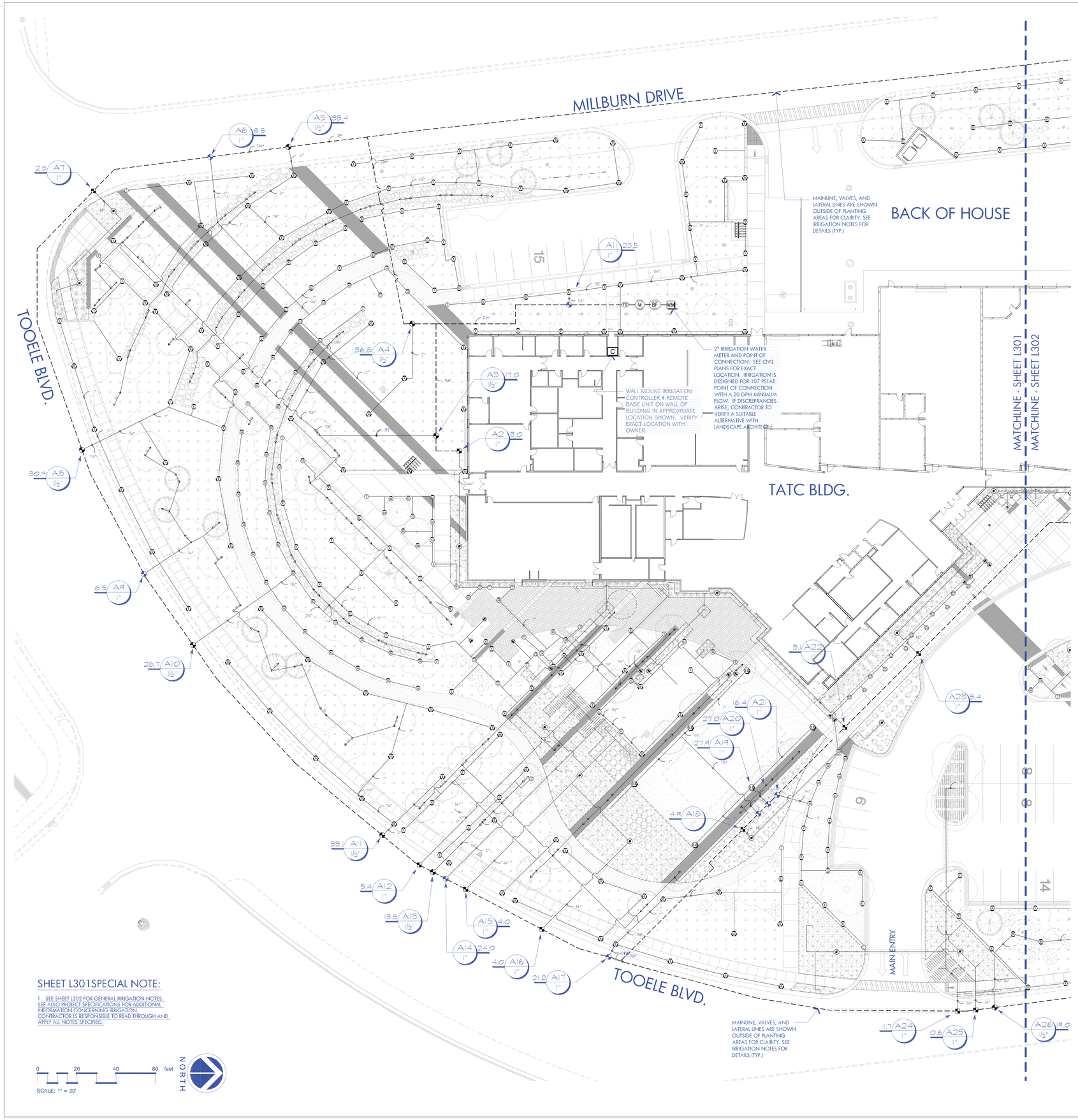
Landscape Plan

sheet:

L202

Project Status



SHEET L301SPECIAL NOTE:

1. SEE SHEET L302 FOR GENERAL IRRIGATION NOTES. SEE ALSO PROJECT SPECIFICATIONS FOR ADDITIONAL INFORMATION CONCERNING IRRIGATION. CONTRACTOR IS RESPONSIBLE TO READ THROUGH AND APPLY ALL NOTES SPECIFIED.

IRRIGATION SCHEDULE

SYMBOL	MANUFACTURER/MODEL/DESCRIPTION	QTY	PSI
Q T H F	HUNTER PROS-06-CV 8' RADIUS TURF SPRAY, 6" POP-UP WITH FACTORY INSTALLED DRAIN CHECK VALVE AND RECLAIMED BODY CAP.	95	30
8 10 12 15 17	HUNTER PROS-06-CV ADJ TURF SPRAY, 6" POP-UP WITH FACTORY INSTALLED DRAIN CHECK VALVE AND RECLAIMED BODY CAP.	4	30
M O	HUNTER MP1000 W/ PROS-06-CV TURF SPRAY 6" POP-UP WITH CHECK VALVE, MP ROTATOR NOZZLE. M=MAROON ADJ ARC 90 TO 210, L=LIGHT BLUE 210 TO 270 ARC, O=OLIVE 360 ARC, ON MPR40 6" POP-UP BODY.	57	40
K G R	HUNTER MP2000 W/ PROS-06-CV TURF SPRAY 6" POP-UP WITH FACTORY INSTALLED CHECK VALVE, MP ROTATOR NOZZLE. K=BLACK ADJ ARC 90-210, G=GREEN ADJ ARC 210-270, R=RED 360 ARC, ON MPR40 6" POP-UP BODY.	15	40
B Y A	HUNTER MP3000 W/ PROS-06-CV TURF SPRAY 6" POP-UP WITH FACTORY INSTALLED CHECK VALVE, MP ROTATOR NOZZLE. B=BLUE ADJ ARC 90-210, Y=YELLOW ADJ ARC 210-270, A=GRAY 360 ARC, ON MPR40 6" POP-UP BODY.	8	40
T	HUNTER MP CORNER W/ PROS-06-CV TURF SPRAY 6" POP-UP WITH FACTORY INSTALLED CHECK VALVE, MP ROTATOR NOZZLE. T=TURQUOISE ADJ ARC 45-105, ON MPR40 6" POP-UP BODY.	19	40
LST RST SST	HUNTER MP STRIP W/ PROS-06-CV TURF SPRAY 6" POP-UP WITH FACTORY INSTALLED CHECK VALVE, MP ROTATOR NOZZLE. LST=IVORY LEFT STRIP, SST=BROWN SIDE STRIP, RST=COPPER RIGHT STRIP, ON MPR40 6" POP-UP BODY.	22	40
M O	HUNTER MP1000 PROS-12-CV-R SHRUB ROTATOR, 12" (30.48 CM) POP-UP WITH CHECK VALVE, PURPLE CAP, PRESSURE REGULATED TO 40 PSI (2.76 BAR), MP ROTATOR NOZZLE. M=MAROON ADJ ARC 90 TO 210, L=LIGHT BLUE 210 TO 270 ARC, O=OLIVE 360 ARC ON PRS40 BODY.	79	40
K G R	HUNTER MP2000 PROS-12-CV-R SHRUB ROTATOR, 12" (30.48 CM) POP-UP WITH FACTORY INSTALLED CHECK VALVE, RECLAIMED BODY CAP, PRESSURE REGULATED TO 40 PSI (2.76 BAR), MP ROTATOR NOZZLE. K=BLACK ADJ ARC 90-210, G=GREEN ADJ ARC 210-270, R=RED 360 ARC ON PRS40 BODY.	195	40
B Y A	HUNTER MP3000 PROS-12-CV-R SHRUB ROTATOR, 12" (30.48 CM) POP-UP WITH FACTORY INSTALLED CHECK VALVE, RECLAIMED BODY CAP, PRESSURE REGULATED TO 40 PSI (2.76 BAR), MP ROTATOR NOZZLE. B=BLUE ADJ ARC 90-210, Y=YELLOW ADJ ARC 210-270, A=GRAY 360 ARC ON PRS40 BODY.	93	40
T	HUNTER MP CORNER PROS-12-CV-R SHRUB ROTATOR, 12" (30.48 CM) POP-UP WITH CHECK VALVE, PURPLE CAP, PRESSURE REGULATED TO 40 PSI (2.76 BAR), MP ROTATOR NOZZLE. T=TURQUOISE ADJ ARC 45-105 ON PRS40 BODY.	8	40
LST RST SST	HUNTER MP STRIP PROS-12-CV-R SHRUB ROTATOR, 12" (30.48 CM) POP-UP WITH FACTORY INSTALLED CHECK VALVE, RECLAIMED BODY CAP, PRESSURE REGULATED TO 40 PSI (2.76 BAR), MP ROTATOR NOZZLE. LST=IVORY LEFT STRIP, SST=BROWN SIDE STRIP, RST=COPPER RIGHT STRIP ON PRS40 BODY.	5	40
25 50 50H 10H 10F 20F	HUNTER PROS-04-CV-MSBN MULTI-STREAM BUBBLER, 4" POP-UP, FACTORY INSTALLED DRAIN CHECK VALVE, 25=.25GPM, 50=0.5GPM, 10=1.0GPM, 20=2.0GPM.	182	30

SYMBOL	MANUFACTURER/MODEL/DESCRIPTION	QTY	PSI	GPM	RADIUS
9.0	HUNTER I-20-ADS, 36S TURF ROTOR, 4" POPUP, ADJUSTABLE AND FULL CIRCLE, WITH CHECK VALVE, STAINLESS STEEL RISER	6	55	9.00	46'
3.0	HUNTER I-20-12-ADV, 36V SHRUB ROTOR, 12" POP-UP, ADJUSTABLE AND FULL CIRCLE, FACTORY INSTALLED CHECK VALVE.	1	55	3.40	39'
4.0	HUNTER I-20-12-ADV, 36V SHRUB ROTOR, 12" POP-UP, ADJUSTABLE AND FULL CIRCLE, FACTORY INSTALLED CHECK VALVE.	2	55	4.50	41'
8.0	HUNTER I-20-12-ADV, 36V SHRUB ROTOR, 12" POP-UP, ADJUSTABLE AND FULL CIRCLE, FACTORY INSTALLED CHECK VALVE.	11	55	9.00	46'

SYMBOL	MANUFACTURER/MODEL/DESCRIPTION	QTY
	RAIN BIRD XCZ-100-B-COM DRIP CONTROL KIT, 1" PEBS VALVE, 1" BASKET FILTER, AND 40PSI PRESSURE REGULATOR, 1" BALL VALVE.	18
	PIPE TRANSITION POINT PIPE TRANSITION POINT FROM PVC LATERAL TO DRIP TUBING WITH RISER IN DRIP BOX.	24
	AREA TO RECEIVE DRIP EMITTERS RAIN BIRD XERI-BUG XB SINGLE OUTLET PRESSURE COMPENSATING DRIP EMITTER, BARBED IN-LET, BLUE=0.5GPH, BLACK=1.0GPH, RED=2.0GPH. Emitter Notes: 1 gal plant to receive 2 05PC emitters. 2 gal plant to receive 2 05PC emitters. 3 gal plant to receive 2 10PC emitters. 5 gal plant to receive 3 10PC emitters. 15 gal plant to receive 5 10PC emitters. 25 gal plant to receive 6 20PC emitters. 30 gal plant to receive 6 20PC emitters. B & B plant to receive 10 20PC emitters. B & B, 2.5"Cal plant to receive 10 20PC emitters.	19,585 S.F.
	AREA TO RECEIVE DRIPLINE RAIN BIRD XFD-09-12 LANDSCAPE DRIPLINE WITH 0.9GPH EMITTERS AT 12" O.C. DRIPLINE LATERALS SPACED AT 12" APART, WITH EMITTERS OFFSET FOR TRIANGULAR PATTERN.	3,751 S.F.

SYMBOL	MANUFACTURER/MODEL/DESCRIPTION	QTY
	HUNTER ICV ELECTRIC REMOTE CONTROL VALVE, PLASTIC GLOBE.	27
M	HUNTER HFV-201G 2" ELECTRIC REMOTE CONTROL VALVE, 2" BRASS, WITH GLOBE VALVE, FLOW CONTROL.	1
BF	FEBCO 825Y 2" REDUCED PRESSURE BACKFLOW PREVENTER	1
C	WEATHERTRAK WTPRO2S-C-48-CWM SUBSCRIPTION MODEL # CIM-PRO2C-1248-1Y	1
FS	BADGER MODEL IR220P 2 FLOW SENSOR 2"	1
	IRRIGATION LATERAL LINE: PVC SCHEDULE 40 PVC SCHEDULE 40 IRRIGATION PIPE. ONLY LATERAL TRANSITION PIPE SIZES 1" AND ABOVE ARE INDICATED ON THE PLAN, WITH ALL OTHERS BEING 3/4" IN SIZE.	16,373 L.F.
	IRRIGATION MAINLINE: PVC CLASS 200 SDR 21	3,820 L.F.
	PIPE SLEEVE: BILL-LOCK AND PVC CLASS 200 TYPICAL PIPE SLEEVE FOR IRRIGATION PIPE. PIPE SLEEVE SIZE SHALL ALLOW FOR IRRIGATION PIPING AND THEIR RELATED COUPLINGS TO EASILY SLIDE THROUGH SLEEVING MATERIAL. EXTEND SLEEVES 18 INCHES BEYOND EDGES OF PAVING OR CONSTRUCTION.	1,160 L.F.

Valve Callout
- Valve Number
- Valve Flow
- Valve Size

REGISTERED LANDSCAPE ARCHITECT # 5197921 Brandon A. Reed STATE OF UTAH

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IRRIGATION PLAN

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L301

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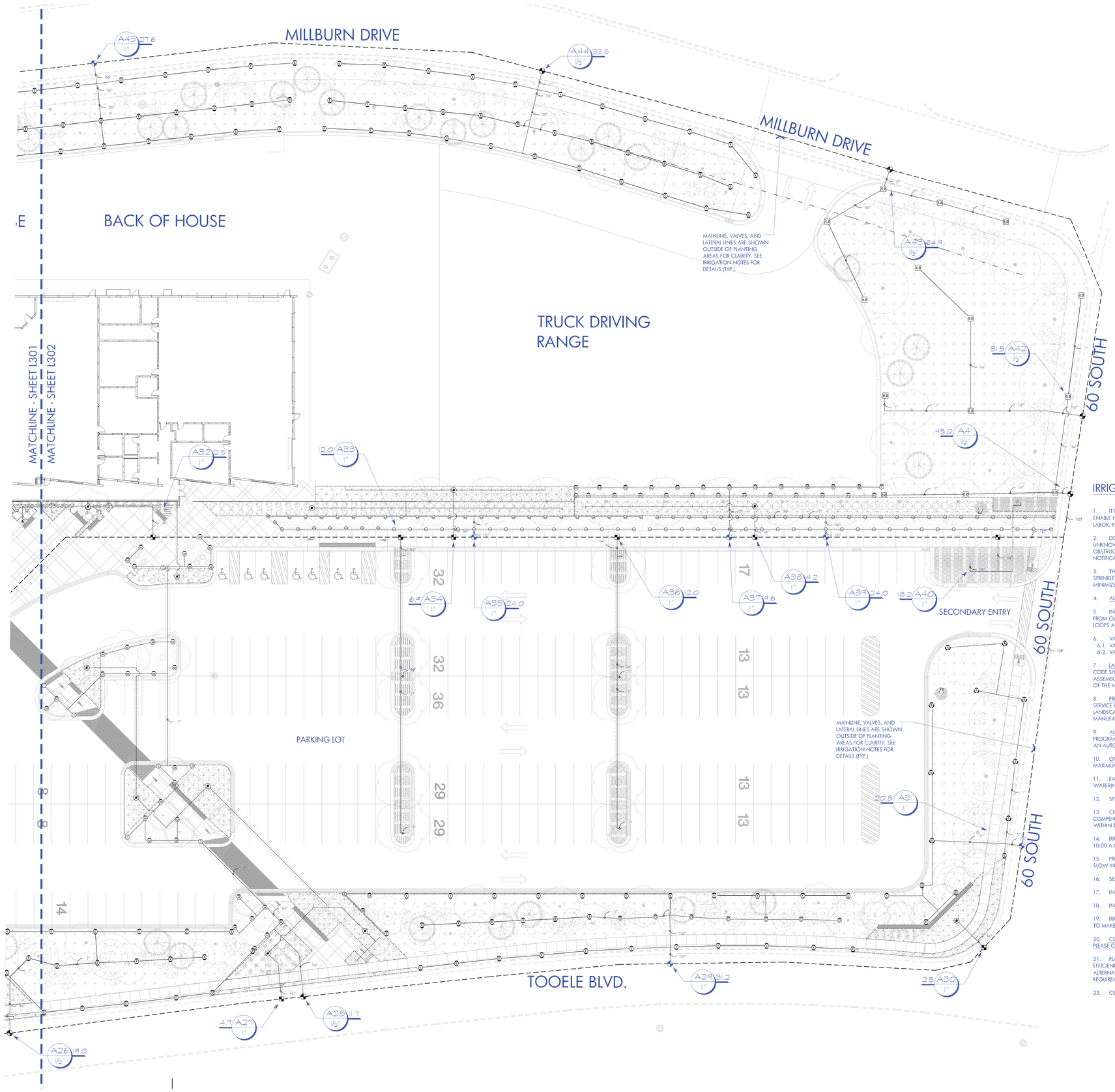

SHEET L301 SPECIAL NOTE:

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IRRIGATION GENERAL NOTES:

1. IT IS THE INTENT OF THESE IRRIGATION PLANS TO PROVIDE THE CONTRACTOR WITH CONSTRUCTION INFORMATION THAT WILL ENABLE HIM/HER TO PROVIDE AND INSTALL A COMPLETE AND OPERATION IRRIGATION SYSTEM. THE CONTRACTOR SHALL PROVIDE ALL LABOR, PARTS, AND MATERIALS REQUIRED.

2. DO NOT WILLFULLY INSTALL THE IRRIGATION SYSTEM AS SHOWN ON THE PLANS WHEN IT IS OBVIOUS IN THE FIELD THAT UNKNOWN OBSTRUCTIONS OR GRADING DIFFERENCES MAY NOT HAVE BEEN CONSIDERED IN THE ENGINEERING, SUCH OBSTRUCTIONS OR DIFFERENCES SHOULD BE BROUGHT TO THE ATTENTION OF THE LANDSCAPE ARCHITECT. IN THE EVENT THAT THE NOTIFICATION IS NOT PERFORMED, THE CONTRACTOR SHALL ASSUME FULL RESPONSIBILITY FOR ANY NECESSARY REVISIONS.

3. THE CONTRACTOR SHALL FLUSH AND ADJUST ALL SPRINKLER HEADS AND VALVES FOR OPTIMUM COVERAGE. INSTALL ALL SPRINKLER HEADS WITH NOZZLES OF THE APPROPRIATE DEGREE AND RADIUS FOR THE AREA TO BE COVERED. ADJUST ALL NOZZLES TO MINIMIZE SPRAYING ONTO WALKS, BUILDINGS, ETC.

4. ALL PIPE INSTALLED IN PAVING SHALL BE SLEEVED, SEE SLEEVING DETAIL(S).

5. INSTALL 14 GAUGE WIRE WITH WHITE AS GROUND, BLUE AS SPARE GROUND. ALL WIRING IN 3/4" GRAY ELECTRICAL CONDUIT FROM CLOCK TO MAINLINE, THEN RUN WIRE UNDER MAINLINE EXPOSED BUT DO NOT TAPE WIRE TO MAINLINE. INCLUDE EXPANSION LOOPS AT ALL CORNERS AND ANGLES.

6. VALVE BOXES AND LIDS COLOR SHALL MATCH SURROUNDING GROUNDCOVER/MULCH AS FOLLOWS:
   6.1. VALVE BOXES LOCATED IN SHRUB BEDS = BLACK COLOR BOX
   6.2. VALVE BOXES LOCATED IN TURF GRASS = GREEN COLOR BOX

7. LANDSCAPE WATER METER: A WATER METER AND BACKFLOW PREVENTION ASSEMBLY THAT ARE IN COMPLIANCE WITH STATE CODE SHALL BE INSTALLED FOR LANDSCAPE IRRIGATION SYSTEMS, AND THE LANDSCAPE WATER METER AND BACKFLOW PREVENTION ASSEMBLY SHALL BE SEPARATE FROM THE WATER METER AND BACKFLOW PREVENTION ASSEMBLY INSTALLED FOR INDOOR USES. THE SIZE OF THE METER SHALL BE DETERMINED BASED ON IRRIGATION DEMAND.

8. PRESSURE REGULATION: A PRESSURE REGULATING VALVE SHALL BE INSTALLED AND MAINTAINED BY THE CONSUMER IF THE STATIC SERVICE PRESSURE EXCEEDS 80 POUNDS PER SQUARE INCH (PSI). THE PRESSURE-REGULATING VALVE SHALL BE LOCATED BETWEEN THE LANDSCAPE WATER METER AND THE FIRST POINT OF WATER USE, OR FIRST POINT OF DIVISION IN THE PIPE, AND SHALL BE SET AT THE MANUFACTURER'S RECOMMENDED PRESSURE FOR SPRINKLERS.

9. AUTOMATIC CONTROLLER: ALL IRRIGATION SYSTEMS SHALL INCLUDE AN ELECTRIC AUTOMATIC CONTROLLER WITH MULTIPLE PROGRAM AND MULTIPLE REPEAT CYCLE CAPABILITIES AND A FLEXIBLE CALENDAR PROGRAM. ALL CONTROLLERS SHALL BE EQUIPPED WITH AN AUTOMATIC RAIN SHUT-OFF DEVICE.

10. ON SLOPES EXCEEDING 30%, THE IRRIGATION SYSTEM SHALL CONSIST OF DRIP EMITTERS, BUBBLERS, OR SPRINKLERS WITH A MAXIMUM PRECIPITATION RATE OF 0.85 INCHES PER HOUR AND ADJUSTED SPRINKLER CYCLE TO ELIMINATE RUNOFF.

11. EACH VALVE SHALL IRRIGATE A LANDSCAPE WITH SIMILAR SITE, SLOPE AND SOIL CONDITIONS AND PLANT MATERIALS WITH SIMILAR WATERING NEEDS. TURF AND NON-TURF AREAS SHALL BE IRRIGATED ON SEPARATE VALVES.

12. SPRINKLERS SHALL HAVE MATCHED PRECIPITATION RATE WITH EACH CONTROL VALVE CIRCUIT.

13. CHECK VALVES SHALL BE REQUIRED WHERE ELEVATION DIFFERENCES WILL CAUSE LOW-HEAD DRAINAGE. PRESSURE COMPENSATING VALVES AND SPRINKLERS SHALL BE REQUIRED WHERE A SIGNIFICANT VARIATION IN WATER PRESSURE WILL OCCUR WITHIN THE IRRIGATION SYSTEM DUE TO ELEVATION DIFFERENCES.

14. IRRIGATION ZONES WITH OVERHEAD SPRAY OR STREAM SPRINKLERS SHALL BE DESIGNED TO OPERATE BETWEEN 6:00 P.M. AND 10:00 A.M. TO REDUCE WATER LOSS FROM WIND AND EVAPORATION. THIS WOULD EXCLUDE DRIP OR BUBBLER ZONES.

15. PROGRAM VALVES FOR MULTIPLE REPEAT CYCLES WHERE NECESSARY TO REDUCE RUNOFF, PARTICULARLY SLOPES AND SOILS WITH SLOW INFILTRATION RATE

16. SEE SHEET D-3 AND D-4 IRRIGATION DETAILS SHEETS FOR IRRIGATION DETAILS.

17. INSTALL MAINLINE AND ALL LATERAL LINES ADJACENT TO CURB OR SIDEWALK WHERE POSSIBLE.

18. INSTALL CONTROLLER WIRE ADJACENT TO MAINLINE WHERE POSSIBLE.

19. IRRIGATION DESIGN IS DIAGRAMMATIC ONLY AND MAY NEED TO BE MODIFIED IN THE FIELD. CONTRACTOR SHALL BE RESPONSIBLE TO MAKE ALL NECESSARY FIELD MODIFICATIONS /ADJUSTMENTS TO ENSURE FULLY FUNCTIONING IRRIGATION SYSTEM.

20. CONTRACTOR SHALL BE RESPONSIBLE FOR CORRECT WATER COVERAGE. IF THIS LAYOUT NEEDS TO BE ADJUSTED OR ADDED TO, PLEASE CONTACT LANDFORM DESIGN GROUP AND MAKE ADJUSTMENTS AS DEEMED NECESSARY.

21. PLAN SHOWS SPECIFIC IRRIGATION EQUIPMENT AND PARTS ARE USED AS A BASIS FOR DESIGN AND TO MAXIMIZE WATER EFFICIENCY TO MEET LEED REQUIREMENTS FOR WATER SAVINGS. CONTRACTOR MAY USE THIS EQUIPMENT OR APPROVED EQUAL. IF ALTERNATES ARE CHOSEN (APPROVED EQUALS) THEY MUST BE SHOWN BY CONTRACTOR TO MEET AND/OR EXCEED WATER EFFICIENCY REQUIREMENTS AND SPECIFICATIONS OF THE PROPOSED IRRIGATION EQUIPMENT.

22. CONTACT LANDFORM DESIGN GROUP AT 801.521.2370 FOR ANY QUESTIONS OR CONCERNS.

0 20 40 80 feet
SCALE: 1" = 20'
NORTH

REGISTERED LANDSCAPE ARCHITECT
5197921
Brandon A. Reed
STATE OF UTAH

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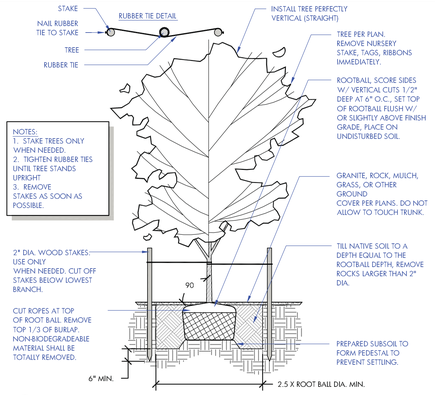
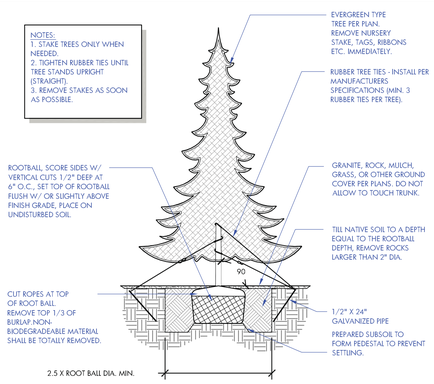


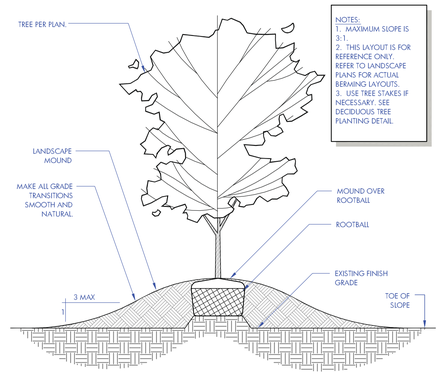
1 DECIDUOUS TREE PLANTING

SCALE: NOT TO SCALE LFDG-PLA-03



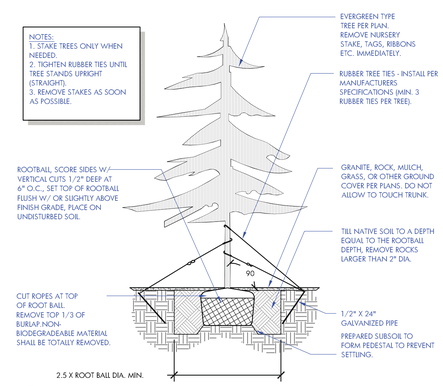
2 EVERGREEN TREE PLANTING

SCALE: NOT TO SCALE LFDG-PLA-04



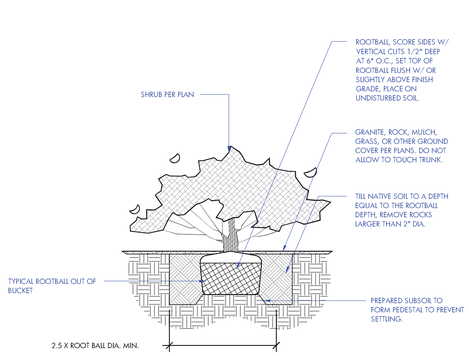
3 TREE IN BERM PLANTING

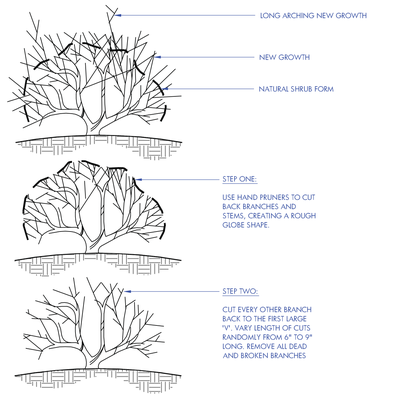
SCALE: NOT TO SCALE LFDG-PLA-02



4 EVERGREEN SPECIMEN TREE PLANTING

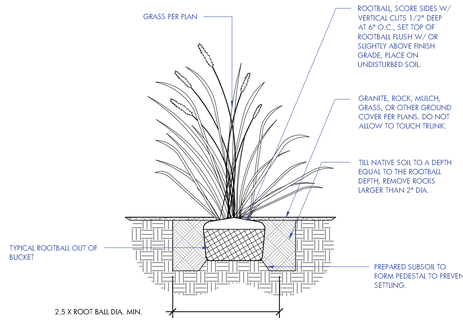
SCALE: NOT TO SCALE LFDG-PLA-13

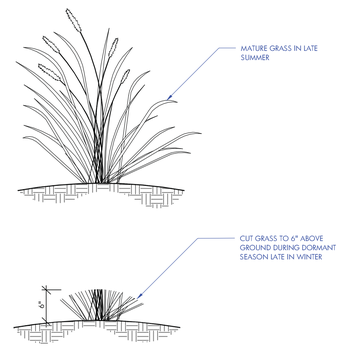




5 SHRUB PLANTING AND PRUNING

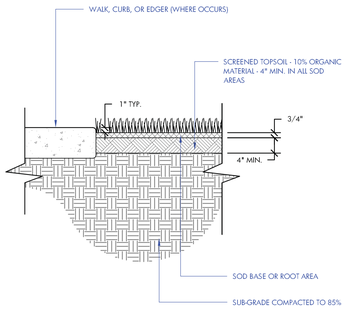
SCALE: NOT TO SCALE LFDG-PLA-05





6 GRASS PLANTING AND PRUNING

SCALE: NOT TO SCALE LFDG-PLA-07



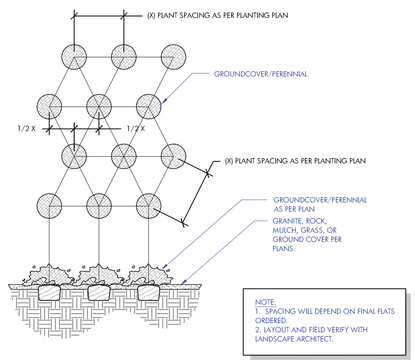
SOD LAYING NOTE:

AFTER AMENDING GROUND; LEVEL, SMOOTH, AND RAKE ALL AREAS TO RECEIVE SOD. SODDED AREAS MUST BE FREE OF ANY LUMPS, DEPRESSIONS, IRREGULAR AREAS OF ROCKS GREATER THAN 1/4" DIAMETER, ALL MOUNDS MUST BLEND SMOOTHLY INTO LEVEL GRADE.

INTALLATION PROCESS:
1. LAY SOD WITHING 24 HOURS OF BEING LIFTED.
2. LAY SOD IN ROWS WITH STAGGERED JOINTS. BUTT SECTIONS CLOSELY WITHOUT OVERLAPPING OR LEAVING GAPS BETWEEN SECTIONS. CUT OUT IRREGULAR OR THIN SECTIONS WITH A SHARP KNIFE.
3. LAY SOD FLUSH WITH ADJOINING EXISTING SODDED OR PAVED SURFACES.
4. AFTER SODDING HAS BEEN COMPLETED, ROLL HORIZONTAL SURFACE AREAS IN TWO DIRECTIONS PERPENDICULAR TO EACH OTHER WITH A 150 LB. SOD ROLLER.
5. REPAIR AND RE-ROLL AREAS WITH DEPRESSIONS, LUMPS, OR OTHER IRREGULARITIES.
6. HEAVY ROLLING TO CORRECT IRREGULARITIES IN GRADE IS NOT PERMITTED.
7. WATER ALL SODDED AREAS IMMEDIATELY AFTER SOD LAYING TO OBTAIN MOISTURE PENETRATION THROUGH SOD INTO TOP 3" OF TOPSOIL.
8. PROVIDE ADEQUATE PROTECTION OF SODDED AREAS AGAINST TRESPASSING, EROSION, AND DAMAGE OF ANY KIND. REMOVE THIS PROTECTION AFTER SODDED AREAS HAVE BEEN ACCEPTED BY THE OWNERS REPRESENTATIVE.
9. REPLACE DAMAGED AREAS AT NO ADDITIONAL COST TO OWNER.

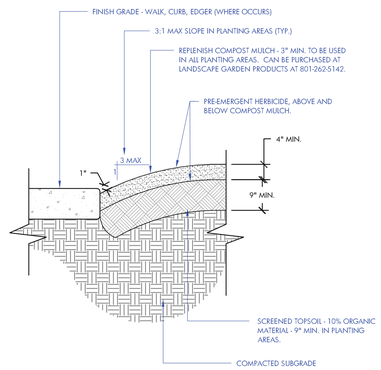
7 SOD PLANTING AND LAYING

SCALE: NOT TO SCALE LFDG-PLA-06



8 GROUNDCOVER PLANTING

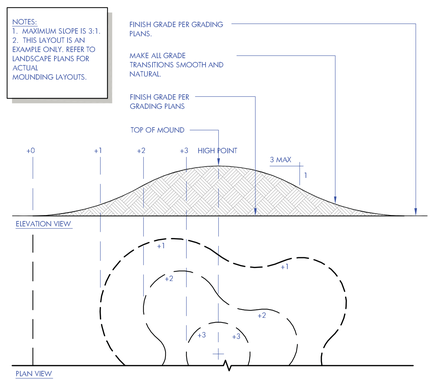
SCALE: NOT TO SCALE LFDG-PLA-11



9 PLANTING AREA

SCALE: NOT TO SCALE LFDG-PLA-09

NOTES:
1. MAXIMUM SLOPE IS 3:1.
2. THIS LAYOUT IS AN EXAMPLE ONLY. REFER TO LANDSCAPE PLANS FOR ACTUAL MOUNDING LAYOUTS.



10 BERMING DETAIL

SCALE: NOT TO SCALE LFDG-PLA-08

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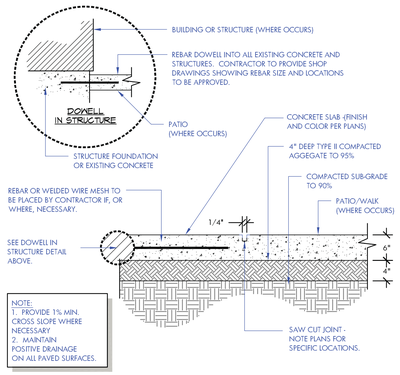

1 CONCRETE PATIO - NON BEVELED EDGE JOINTS
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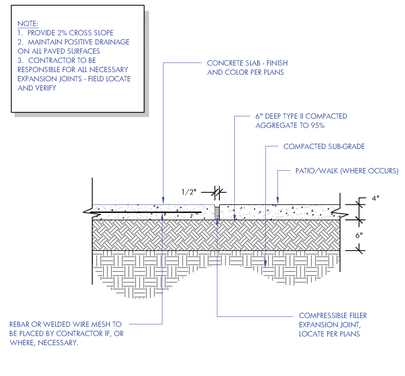

2 EXPANSION JOINT
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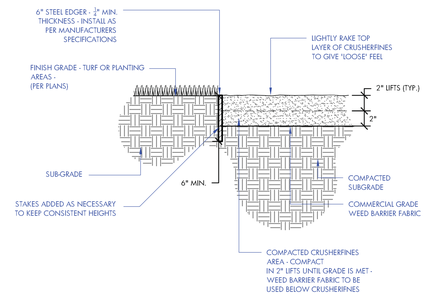

3 STEEL EDGING/ CRUSHERFINES DETAIL
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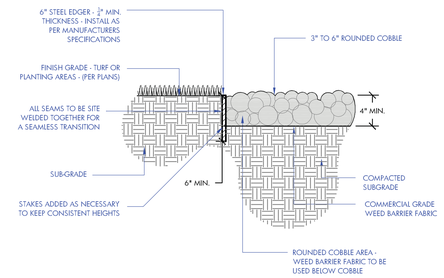

4 COBBLE DETAIL
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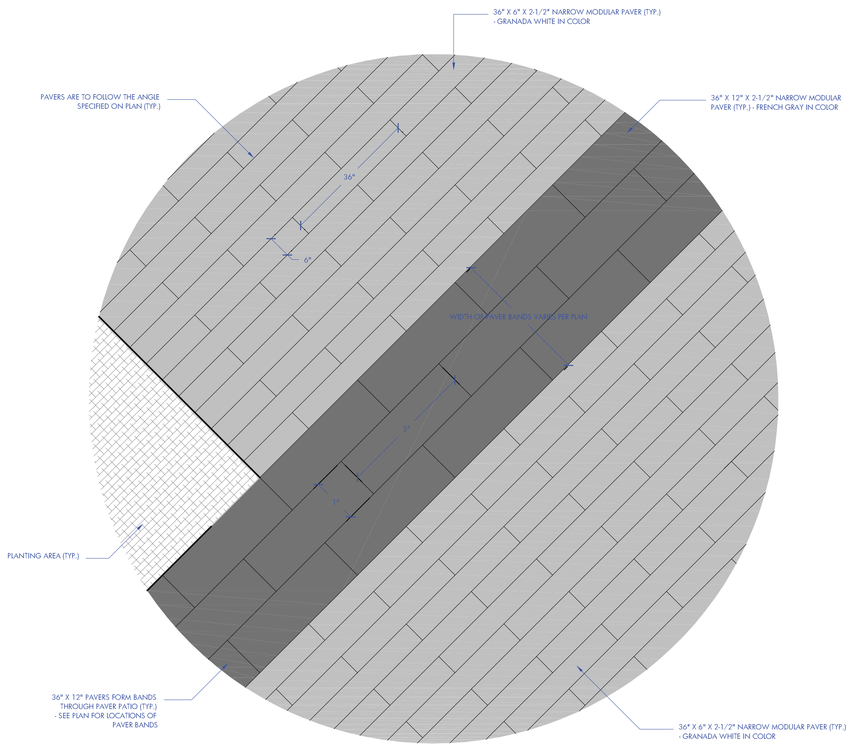
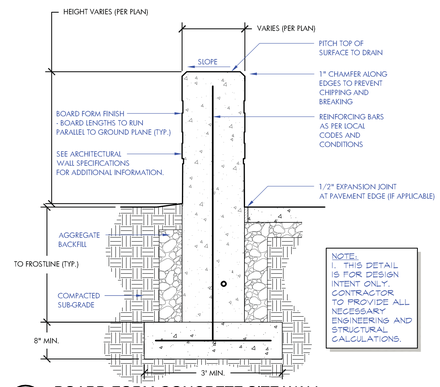
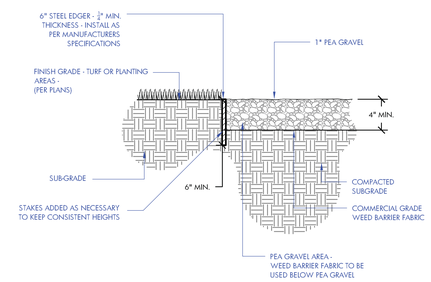


5 MODULAR CONCRETE UNIT PAVER PATTERN ENLARGEMENT SNAPSHOT
3/4" = 1'-0" LFDG-SI2-18



6 BOARD FORM CONCRETE SITE WALL
SCALE: NOT TO SCALE LFDG-SI2-13



7 PEA GRAVEL DETAIL
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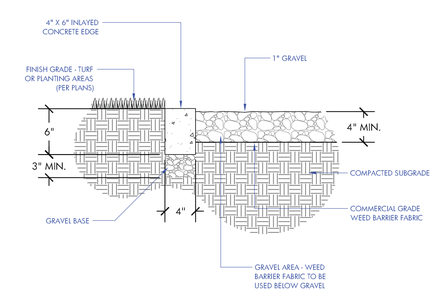

8 INLAYED CONCRETE EDGE
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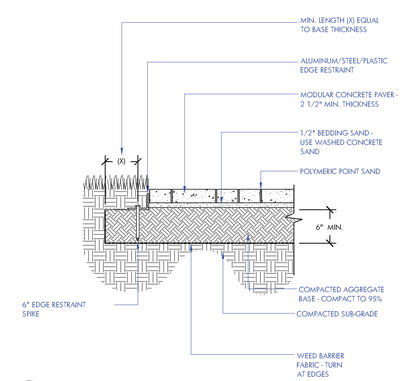

9 MODULAR PAVER PATIO
NOT TO SCALE LFDG-SI2-19

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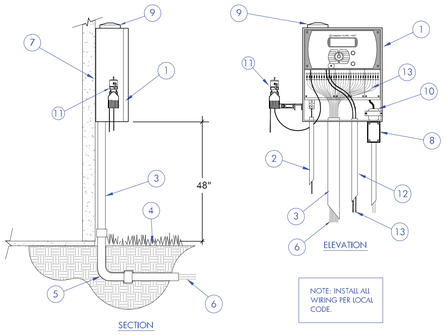


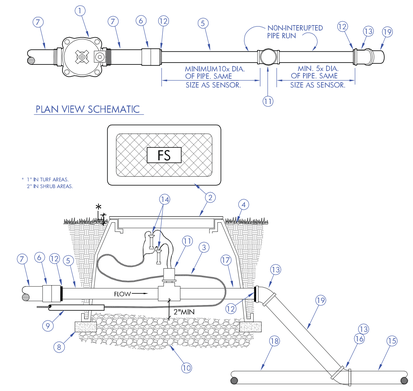
NOTE: INSTALL ALL WIRING PER LOCAL CODE.

LEGEND

1. WEATHERTRAK ET PRO/2 SWM SMART WATER MANAGER SERIES CONTROLLER WITHIN VANDAL RESISTANT POWDER COATED COLD ROLLED STEEL WALL MOUNT ENCLOSURE ASSEMBLY W/KEYLOCK. SEE SPECIFICATIONS FOR SIZE AND FINISH.
2. #6 COPPER GROUND WIRE IN CONDUIT. CONNECT TO BUILDING GROUND AS REQUIRED BY NATIONAL AND LOCAL ELECTRICAL CODES.
3. 1-1/2" PVC SCH. 40 CONTROL WIRE CONDUIT.
4. FINISH GRDE IN LANDSCAPE AREA.
5. 1-1/2" PVC LONG SWEEP ELL AND CONDUIT - SIZE AS REQUIRED.
6. LOW VOLTAGE CONTROL WIRING FROM AUTOMATIC CONTROLLER TO ELECTRIC CONTROL VALVES.
7. WALL SURFACE. ANCHOR CONTROLLER TO WALL PER MANUFACTURER'S RECOMMENDATIONS.
8. "J" BOX FOR 120 VOLT CONNECTION TO CONTROLLER TRANSFORMER.
9. LOW PROFILE ANTENNA.
10. CONTROLLER TRANSFORMER.
11. WIRED OR WIRELESS RAIN SENSOR PER SPECS.
12. 3/4" PVC SWEEP ELL AND CONDUIT FOR FLOW SENSOR CABLE AND MASTER VALVE WIRES.
13. FLOW SENSOR CABLE AND MASTR VALVE WIRES PER SPECIFICATIONS.

1 WEATHERTRAK ET PRO/2 SWM WALL MOUNT CONTROLLER

3/4" = 1'-0" 328409.13-10

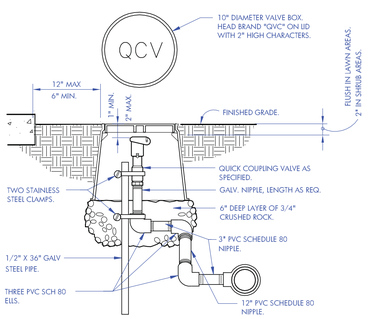


LEGEND

1. SUPERIOR 3100 SOLENOID ACTUATED, NORMALLY OPEN MASTER CONTROL VALVE - SIZE AS NOTED.
2. RECTANGULAR VALVE BOX WITH GREEN BOLT DOWN COVER. HEAT BRAND VALVE STATION NO. ON LID IN 2" HIGH CHARACTERS.
3. 30" COIL OF FLOW SENSOR CABLE.
4. FINISH GRADE.
5. PVC SCHEDULE 40 MAINLINE PIPE. SAME SIZE AS FLOW SENSOR. ALLOW MINIMUM DISTANCE OF 10 PIPE DIAMETERS FROM NEAREST UPSTREAM VALVE, FITTING, METER, OR REDUCING COUPLER.
6. PVC 5x5 COUPLING.
7. 12" SCHEDULE 80 TOE NIPPLE TO MASTER VALVE.
8. COMMON BRICK (4 REQUIRED).
9. 1" PVC SCHEDULE 40 CONDUIT WITH FLOW SENSOR CABLE FROM AUTOMATIC CONTROLLER.
10. 3/4" CRUSHED ROCK. 8" DEEP.
11. FLOW SENSOR.
12. PVC 5x5 REDUCER BUSHING FROM MAINLINE SIZE TO FLOW SENSOR SIZE.
13. PVC 5x5 45 DEG. ELL. SAME SIZE AS EXISTING MAINLINE.
14. 3M DBY WIRE CONNECTOR.
15. EXISTING IRRIGATION MAINLINE PIPE.
16. CONNECT TO EXISTING IRRIGATION MAINLINE PIPE AS REQUIRED TO ACCOMMODATE INSTALLATION OF NEW MASTER VALVE AND FLOW SENSOR. ADJUST PIPE TO REQUIRED DEPTH WITH 45° ELLS.
17. PVC SCHEDULE 40 MAINLINE PIPE. SAME SIZE AS FLOW SENSOR. ALLOW MINIMUM DISTANCE OF 5 PIPE DIAMETERS FROM FLOW SENSOR TO NEAREST DOWN STREAM VALVE, FITTING, METER, OR REDUCING COUPLER.
18. REMOVE EXISTING IRRIGATION MAIN LINE PIPE AS REQUIRED TO INSTALL IRRIGATION MASTER VALVE AND FLOW SENSOR.
19. PVC SCHEDULE 40 PIPE.

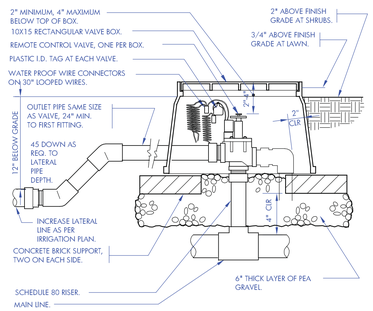
2 MASTER VALVE/FLOW SENSOR SCHEMATIC

3/4" = 1'-0" 328406.23-04



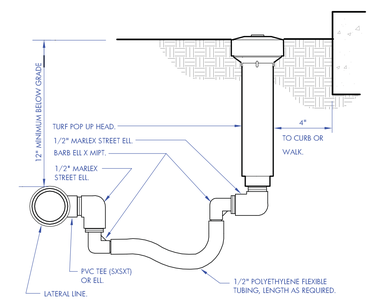
3 QUICK COUPLING VALVE IN BOX

1 1/2" = 1'-0" 328406.43-02



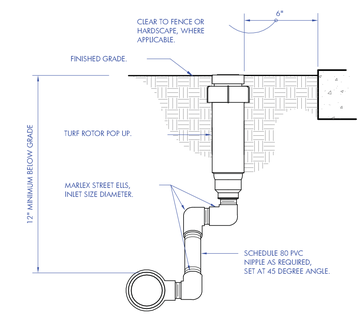
4 ELECTRIC REMOTE CONTROL VALVE

1 1/2" = 1'-0" 328406.13-01



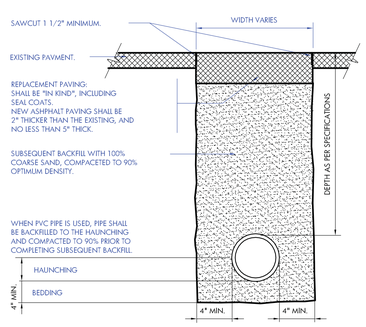
5 TURF SPRAY FLEX ASSEMBLY

3" = 1'-0" 328403.13-02



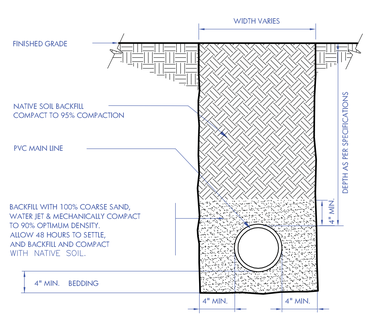
6 TURF ROTOR MARLEX ASSEMBLY

3" = 1'-0" DETAIL-FILE



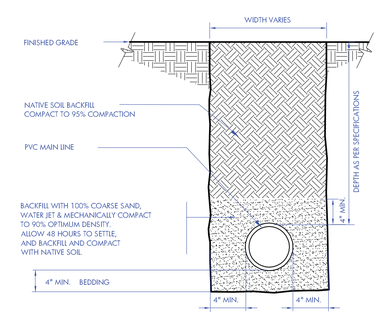
7 TRENCH DETAIL AT ASPHALT PAVING

1 1/2" = 1'-0" 328409.76-02



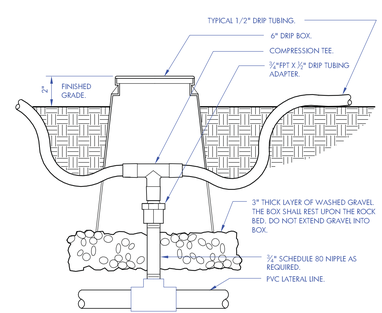
8 MAINLINE WITH SAND BEDDING

1 1/2" = 1'-0" 328409.76-03



9 SLEEVE AT ROAD

1 1/2" = 1'-0" 328409.76-20



10 ZONE CONTROL

3" = 1'-0" 328413.46-03

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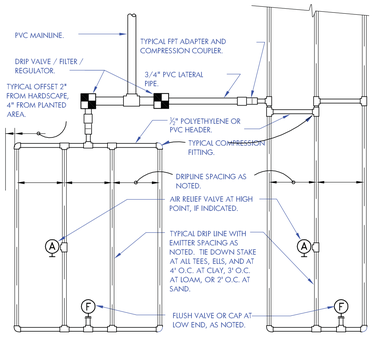


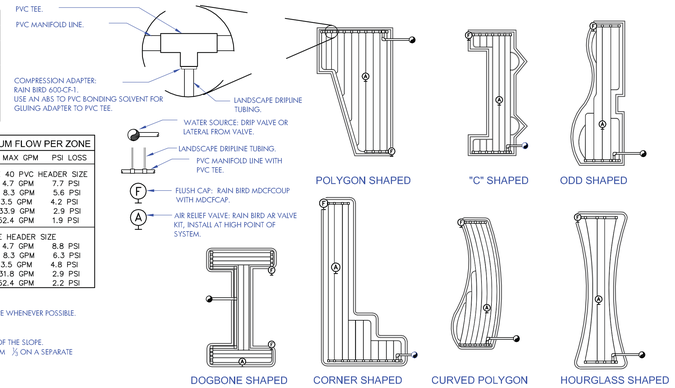
MAXIMUM LATERAL LENGTH (FEET)							
	EMITTER FLOW RATE GPH						
	12" SPACING		18" SPACING		24" SPACING		
PSI	0.6	0.9	0.6	0.9	0.6	0.9	
10	125	96	175	135	218	171	
20	249	191	350	171	442	340	
30	307	236	434	333	550	422	
40	350	268	495	380	627	171	
50	125	96	175	135	218	171	
60	125	96	175	135	218	171	

GRID PRECIPITATION RATES (IN/HR)				
	EMITTER FLOW RATE			
EMITTER SPACING	LATERAL SPACING	0.6	0.9	
12	12	0.96	.44	
18	18	0.69	.03	
24	24	0.28	0.41	

LATERAL FLOW PER 100 FT (GPM)			
EMITTER FLOW	12" SPACING	18" SPACING	24" SPACING
0.6 GPH	1.0 GPM	0.67 GPM	0.50 GPM
0.9 GPH	1.5 GPM	1.0 GPM	0.75 GPM

MAXIMUM FLOW PER ZONE		
	MAX GPM	PSI LOSS
SCHEDULE 40 PVC HEADER SIZE		
1/2"	4.7 GPM	7.7 PSI
3/4"	8.3 GPM	5.6 PSI
1"	13.5 GPM	4.2 PSI
1-1/2"	33.9 GPM	2.9 PSI
2"	52.4 GPM	1.9 PSI
POLY PIPE HEADER SIZE		
1/2"	4.7 GPM	8.8 PSI
3/4"	8.3 GPM	6.3 PSI
1"	13.5 GPM	4.8 PSI
1-1/2"	31.8 GPM	2.9 PSI
2"	52.4 GPM	2.2 PSI

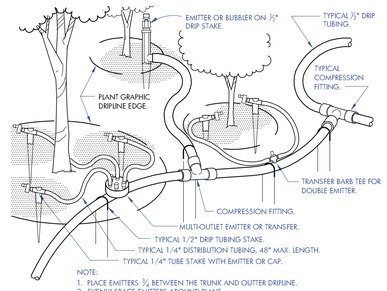
SLOPED CONDITION NOTE:
1. DRIPLINE LATERALS SHOULD FOLLOW THE CONTOURS OF THE SLOPE WHENEVER POSSIBLE.
2. INSTALL AIR RELIEF VALVE AT HIGHEST POINT.
3. NORMAL SPACING WITHIN THE TOP ⅔ OF SLOPE.
4. INSTALL DRIPLINE AT 25% GREATER SPACING AT THE BOTTOM ⅓ OF THE SLOPE.
5. WHEN ELEVATION CHANGE IS 10 FT OR MORE, ZONE THE BOTTOM ⅓ ON A SEPARATE VALVE.



1 TYPICAL RAIN BIRD DRIPLINE REQUIREMENTS

3" = 1'-0"

328413.56-13

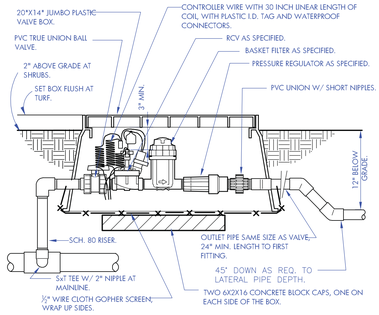


NOTE:
1. PLACE EMITTERS ¾" BETWEEN THE TRUNK AND OUTTER DRIPLINE.
2. EVENLY SPACE EMITTERS AROUND PLANT.
3. STAKE THE DRIP TUBING AT EACH TEE, ELL COUPLER, AT EACH EMITTER OR TRANSFER, AND AT 6'-0" MAX O.C.

2 TYPICAL DRIP TUBING

1 1/2" = 1'-0"

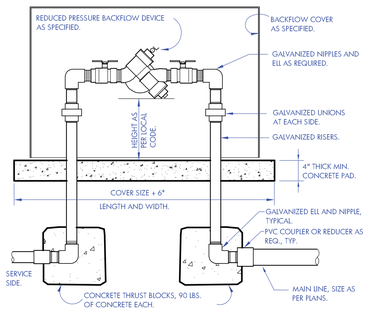
328413.43-01



3 1" DRIP VALVE W/BASKET FILTER

1 1/2" = 1'-0"

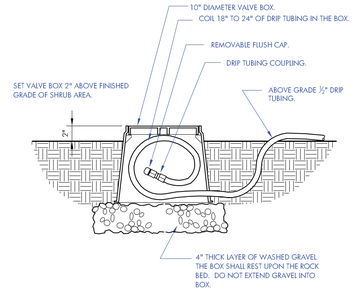
328413.76-26



4 RP BACKFLOW W/ENCLOSURE

1" = 1'-0"

328409.46-03

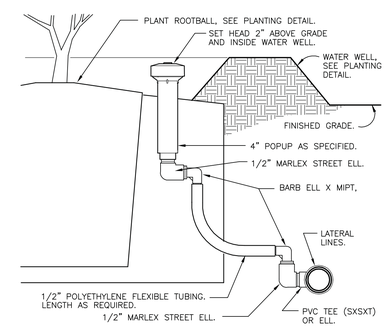


1. LOCATE FLASH CAP ASSEMBLY AT THE END OF EACH DRIP LINE.
2. ENSURE THAT THE COILED DRIP TUBING IS OF SUFFICIENT LENGTH TO COMPLETELY EXTEND OUT OF THE VALVE BOX WHEN FLUSHING.

5 DRIP FLUSH CAP ASSEMBLY

1 1/2" = 1'-0"

328413.49-06



6 POPUP BUBBLER AT PLANT PIT

3" = 1'-0"

328403.53-04

REGISTERED LANDSCAPE ARCHITECT # 5197921 Brandon A. Reed STATE OF UTAH

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METHOD STUDIO INC.
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LFDG LANDFORM DESIGN GROUP
LANDSCAPE ARCHITECTURE
511 W. 200 S. SUITE 125
SLC, UTAH 84101
OFFICE: 801.521.2370
WWW.LANDFORMDESIGNGROUP.COM

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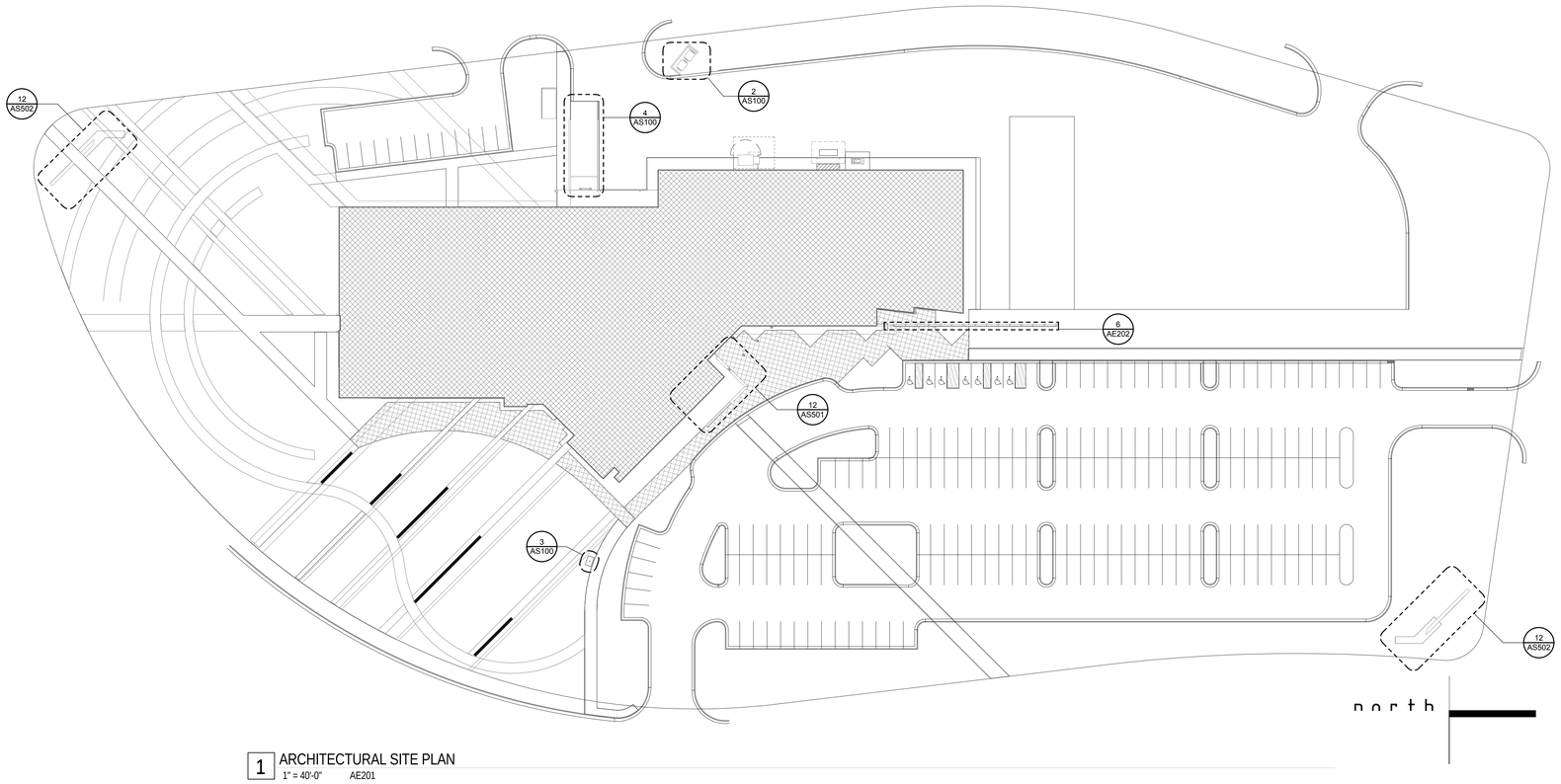
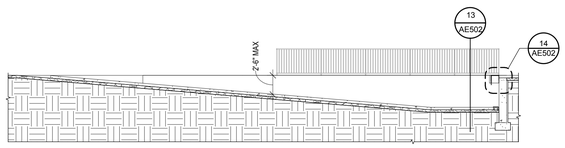
D-4

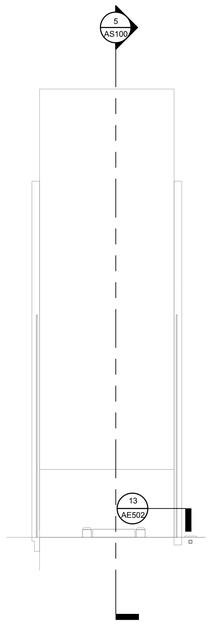
Project Status



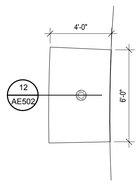
1 ARCHITECTURAL SITE PLAN
1" = 40'-0" AE201



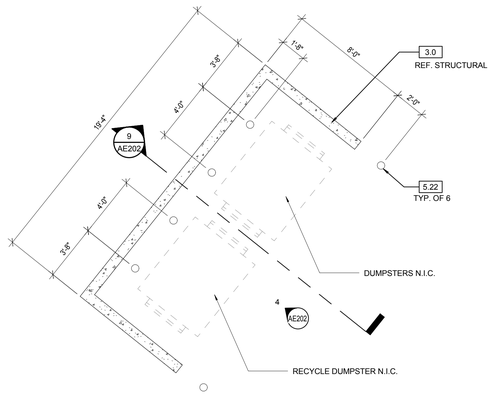
5 LOADING DOCK SECTION
1/8" = 1'-0"



4 LOADING DOCK ENLARGED PLAN
1/8" = 1'-0"



3 FLAG POLE PAD ENLARGED PLAN
1/4" = 1'-0"



2 DUMPSTER ENCLOSURE ENLARGED PLAN
1/4" = 1'-0"

KEYNOTE LEGEND

3.0	CAST-IN-PLACE CONCRETE WALL, SEE STRUCTURAL
5.22	6" DIA. GALV. STEEL BOLLARD, SEE DETAIL 8/AE502

LICENSED ARCHITECT
6710870
JOSEPH FLINT SMITH
STATE OF UTAH
01.20.12

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project:
TOOELE APPLIED TECHNOLOGY COLLEGE - NEW BUILDING

88 South Tooele Blvd
Tooele, UT 84074

DFCM PROJECT #11064280

project#: 11.0420
date: 1/20/2012

revisions :

Architectural Site Plan

sheet:

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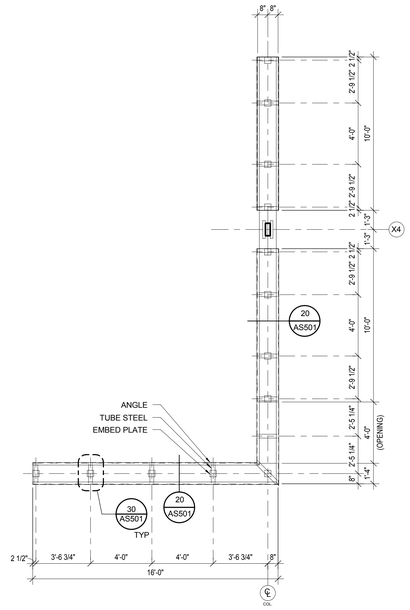
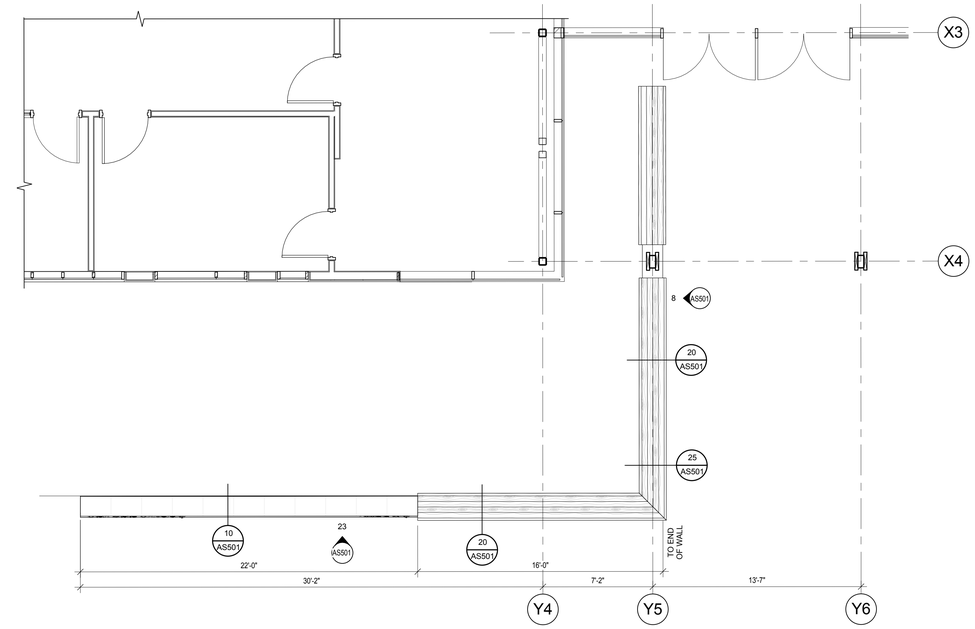
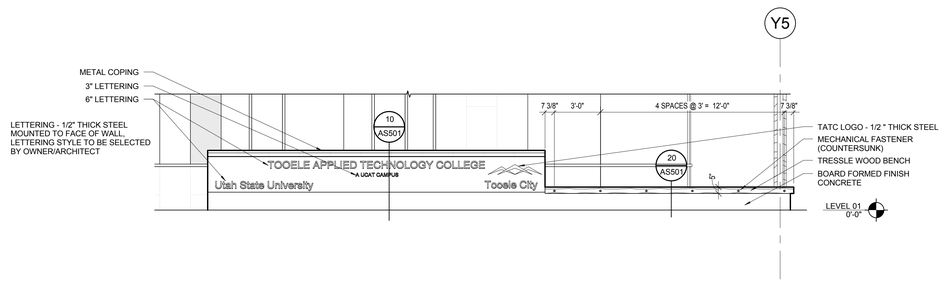


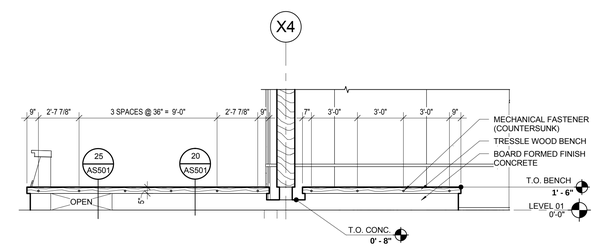
22 Bench Framing Plan
1/4" = 1'-0"



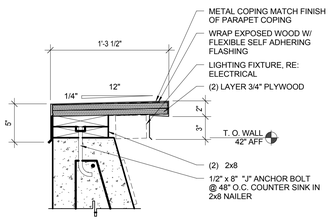
12 ENLARGED PLAN - MONUMENT SIGN/BENCH
1/4" = 1'-0"



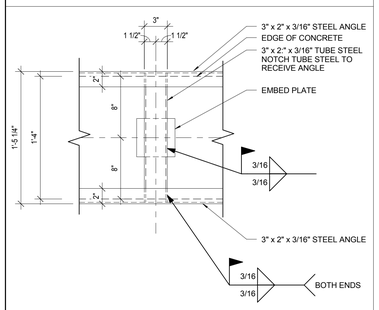
23 ENTRY MONUMENT SIGN/BENCH ELEVATION - SOUTHEAST
1/4" = 1'-0"



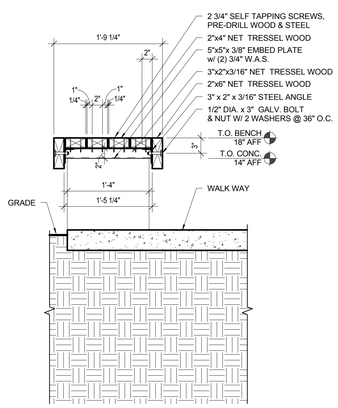
8 ENTRY BENCH ELEVATION - NORTHEAST
1/4" = 1'-0"



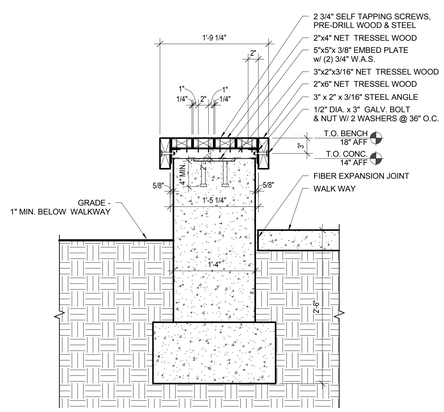
29 MONUMENT SIGN CAP DETAIL
1 1/2" = 1'-0"



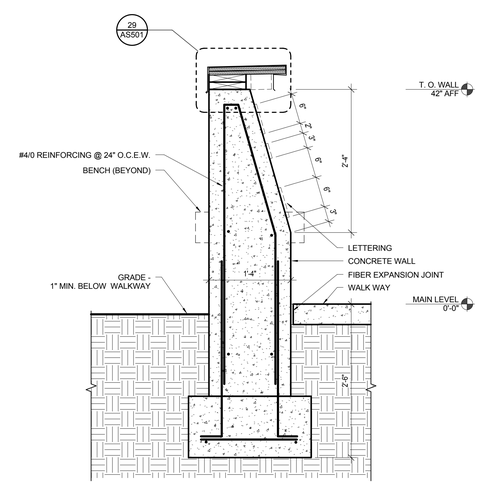
30 EMBED PLATE DETAIL
1 1/2" = 1'-0"



25 BENCH SECTION
1" = 1'-0"



20 BENCH SECTION
1" = 1'-0"



10 ENTRY MONUMENT SIGN SECTION
1" = 1'-0"

LICENSED ARCHITECT
6710870
JOSEPH FLINT SMITH
STATE OF UTAH
01.20.12

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project:
TOOELE APPLIED TECHNOLOGY COLLEGE - NEW BUILDING

88 South Tooele Blvd
Tooele, UT 84074

DFCM PROJECT #11064280

project#: 11.0420
date: 1/20/2012

revisions :

Site Details

sheet:

AS501

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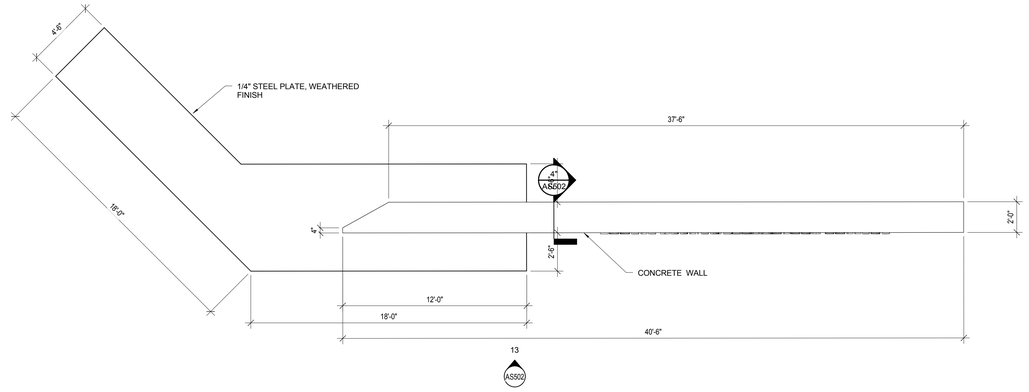
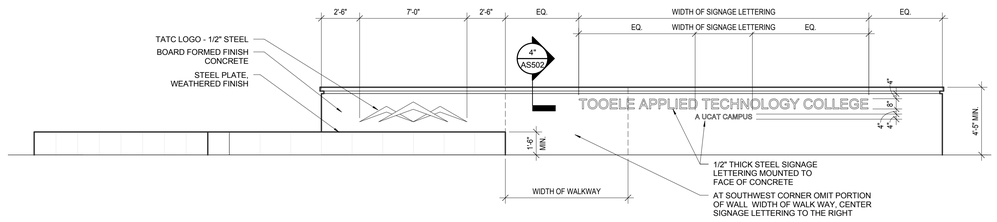
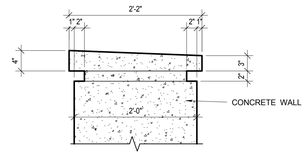


12 ENLARGED PLAN - MONUMENT SIGN @ STREET LOCATION
1/4" = 1'-0"



13 STREET MONUMENT SIGN ELEVATION
1/4" = 1'-0"



4" STREET MONUMENT SIGN DETAIL
1" = 1'-0"

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88 South Tooele Blvd
Tooele, UT 84074

DFCM PROJECT #11064280

project#: 11.0420
date: 1/20/2012

revisions :

Site Details

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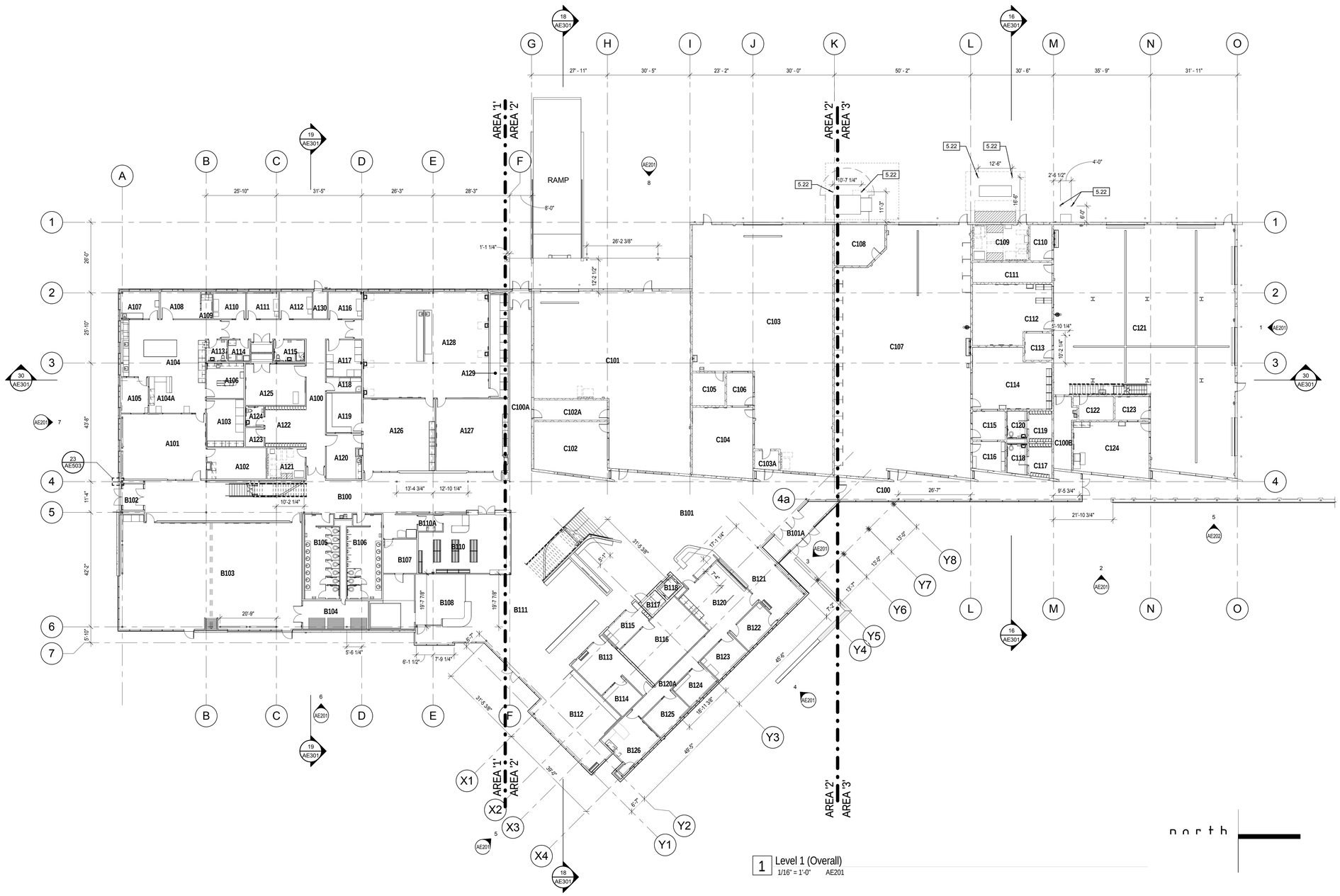
ROOM SCHEDULE LEVEL 1		
Number	Name	Area
A100	CORRIDOR	677 SF
A101	MEDICAL ASSISTING CLASSROOM	752 SF
A102	TESTING	244 SF
A103	STORAGE	236 SF
A104	MEDICAL ASSISTING LAB	854 SF
A104A	LAB RECEPTION	112 SF
A105	MA Office	130 SF
A106	SURGERY	178 SF
A107	EXAM	141 SF
A108	XRAY	145 SF
A109	X-RAY CONTROL	37 SF
A110	OFFICE	118 SF
A111	OFFICE	118 SF
A112	OFFICE	119 SF
A113	TOILET	58 SF
A114	LAUNDRY	62 SF
A115	INSTRUCTION TOILET	86 SF
A116	OFFICE	122 SF
A117	CNA STORAGE	173 SF
A118	JANITOR	69 SF
A119	CONTROL	187 SF
A120	SIM ROOM	208 SF
A121	ELECTRICAL	161 SF

ROOM SCHEDULE LEVEL 1		
Number	Name	Area
A122	LOCKER ROOM	224 SF
A123	STORAGE	47 SF
A124	TOILET	48 SF
A125	CPR	332 SF
A126	LPN/CNA CLASSROOM	702 SF
A127	RN CLASSROOM	697 SF
A128	LPN/RN/CNA LAB SUITE	1821 SF
A129	STORAGE	251 SF
A130	FIRE RISER ROOM	52 SF
B100	CORRIDOR	2092 SF
B101	LOBBY	3707 SF
B101A	VESTIBULE	234 SF
B102	VESTIBULE	77 SF
B103	MULTIPURPOSE ROOM	2685 SF
B104	STORAGE	256 SF
B105	WOMEN	380 SF
B106	MEN	375 SF
B107	KITCHEN STORAGE	155 SF
B108	KITCHEN	495 SF
B109	WALK-IN COOLER	119 SF
B110	BOOKSTORE	631 SF
B110A	BOOKSTORE STORAGE	53 SF
B111	CAFETERIA	1862 SF

ROOM SCHEDULE LEVEL 1		
Number	Name	Area
B112	MEDIA	673 SF
B113	PLACEMENT	304 SF
B114	PLACEMENT OFFICE	111 SF
B115	OFFICE	139 SF
B116	ASSESSMENT	501 SF
B117	ELEV. EQ.	43 SF
B118	ELEVATOR	43 SF
B119	RECEPTION	158 SF
B120	ENROLLMENT	437 SF
B120A	CORRIDOR	203 SF
B121	ENROLMENT WAITING	347 SF
B122	COUNSELOR	154 SF
B123	SIS OFFICE	150 SF
B124	STORAGE / STUDENT RECORDS	142 SF
B125	SPARE OFFICE	153 SF
B126	SS VP	244 SF
C100	CORRIDOR	820 SF
C100A	CORRIDOR	504 SF
C100B	COORIDOR	192 SF
C100C	VESTIBULE	48 SF
C101	SHELLED LAB	3084 SF
C102	SHELLED CLASSROOM	527 SF
C102A	RECEIVING	202 SF

ROOM SCHEDULE LEVEL 1		
Number	Name	Area
C103	CONSTRUCTION TECHNOLOGY LAB	3790 SF
C103A	VESTIBULE	61 SF
C104	CONSTRUCTION TECHNOLOGY CLASSROOM	571 SF
C105	CT STORAGE	145 SF
C106	CT OFFICE	116 SF
C107	WELDING LAB	4333 SF
C108	GRINDING	261 SF
C109	MAIN ELECTRICAL	274 SF
C110	SUPPLY ROOM	107 SF
C111	TOOL STORAGE	215 SF
C112	DIESEL CLASSROOM	604 SF
C113	DIESEL OFFICE	101 SF
C114	WELDING CLASSROOM	610 SF
C115	WELDING OFFICE	129 SF
C116	WL STORAGE	127 SF
C117	LOCKER	107 SF
C118	TOILET	80 SF
C119	LOCKER	100 SF
C120	TOILET	72 SF
C121	CE & R LAB	5076 SF
C122	CE & R STORAGE	118 SF
C123	CE & R OFFICE	108 SF
C124	CE & R CLASSROOM	542 SF



1 Level 1 (Overall)
1/16" = 1'-0" AE201

GENERAL NOTES

1	SEE SHEET AE601 FOR DOOR AND WINDOW SCHEDULE.
2	SEE SHEET AE602, AE603 AND AE603 FOR ALL GLAZING ELEVATIONS. SEE AE605 FRAME TYPES AND DOOR TYPES
3	GUARDRAIL AND SUPPORTS TO BE SYMMETRICAL ACROSS FLOOR OPENINGS AND ADJACENT LIKE ELEMENTS TYP. INITIAL SUPPORTS TO BE 6" FROM START AND END OF GUARD RAIL RUNS TYP. MAX SPACING BETWEEN SUPPORTS TO BE 5'-0" TYP. NOT ALL GUARDRAILS ARE ELEVATED. COORDINATE ALL GUARDRAILS AND SUPPORTS WITH GUARDRAIL DETAIL SHEETS.
4	ALL INTERIOR EXPOSED STEEL TO BE PAINTED, SEE FINISH SCHEDULE. AREAS 2 & 3, WEST OF GRID 4 AND SHOP SPACES ARE EXCLUDED U.N.O.
5	PROVIDE SEMI-RIGID JOINT SEALER @ ALL INTERIOR CONCRETE JOINTS WEST OF GRID 4 AND NORTH OF GRID G
6	CONTRACTOR TO PROVIDE SOLID BLOCKING AT ALL CASE WORK, FIXED FURNISHINGS AND EQUIPMENT. COORDINATE WITH ELEVATIONS, SECTIONS AND FURNITURE AND FIXTURE SHEETS AND SPECIFICATIONS. SEE SHEET AE901 FOR TYPICAL DETAILS

KEYNOTE LEGEND

5.22	6" DIA. GALV. STEEL BOLLARD, SEE DETAIL 8/AE502

LICENSED ARCHITECT
6710870
JOSEPH FLINT SMITH
STATE OF UTAH
01.20.12

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project:
TOOELE APPLIED TECHNOLOGY COLLEGE - NEW BUILDING

88 South Tooele Blvd
Tooele, UT 84074

DFCM PROJECT #11064280

project#: 11.0420
date: 1/20/2012

revisions :

Level 1 Overall Plan

sheet:

AE100

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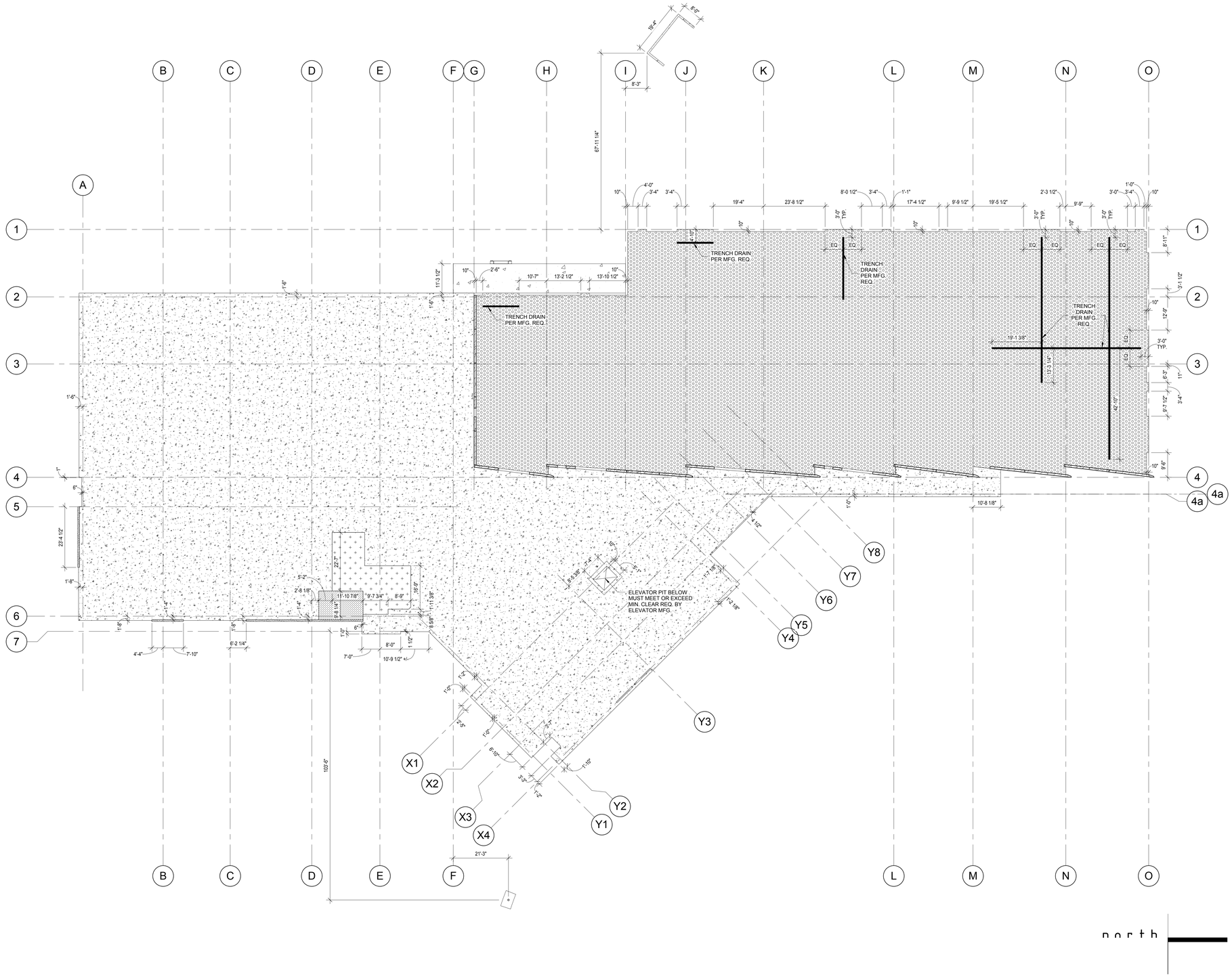

1 Level 1 Slab Edge Plan
1/16" = 1'-0"

SLAB EDGE PLAN GENERAL NOTES

1.	ALL PERIMETER SLAB EDGES ARE COPLANAR TO EXTERIOR FOUNDATION WALL UNLESS OTHERWISE NOTED.
2.	ALL SLAB EDGES ADJACENT TO TILT UP CONC. ARE TO BE COORDINATED BY GENERAL CONTRACTOR ON SITE.
3.	NOT ALL PENETRATIONS SHOWN - SEE MECH. PLUMB. & ELEC. SHEETS. FIELD VERIFY ALL REQ. PENETRATIONS. SEE - STRUCTURAL FOR REINFORCING REQ.

SLAB EDGE PLAN GENERAL NOTES

TYPE A	*TYP. CONCRETE SLAB
TYPE B	*TYP. CONCRETE SLAB @ SHOP / WORK SPACE
TYPE C	*2" DEPRESSED CONCRETE SLAB
TYPE D	*7" DEPRESSED CONCRETE SLAB
TYPE E	*1" RECESSED CONCRETE SLAB
	*TILT-UP CONCRETE WALL
	*TRENCH DRAIN

LICENSED ARCHITECT 6710870 JOSEPH FLINT SMITH STATE OF UTAH
01.20.12

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Tooele, UT 84074

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project#: 11.0420
date: 1/20/2012

revisions :

Lvl 1 Slab Edge Plan

sheet:

AE100A

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ROOM SCHEDULE LEVEL _1	
Number	Name
A100	CORRIDOR
A101	MEDICAL ASSISTING CLASSROOM
A102	TESTING
A103	STORAGE
A104	MEDICAL ASSISTING LAB
A104A	LAB RECEPTION
A105	MA Office
A106	SURGERY
A107	EXAM
A108	XRAY
A109	X-RAY CONTROL
A110	OFFICE
A111	OFFICE
A112	OFFICE
A113	TOILET
A114	LAUNDRY
A115	INSTRUCTION TOILET
A116	OFFICE
A117	CNA STORAGE
A118	JANITOR
A119	CONTROL
A120	SIM ROOM
A121	ELECTRICAL
A122	LOCKER ROOM
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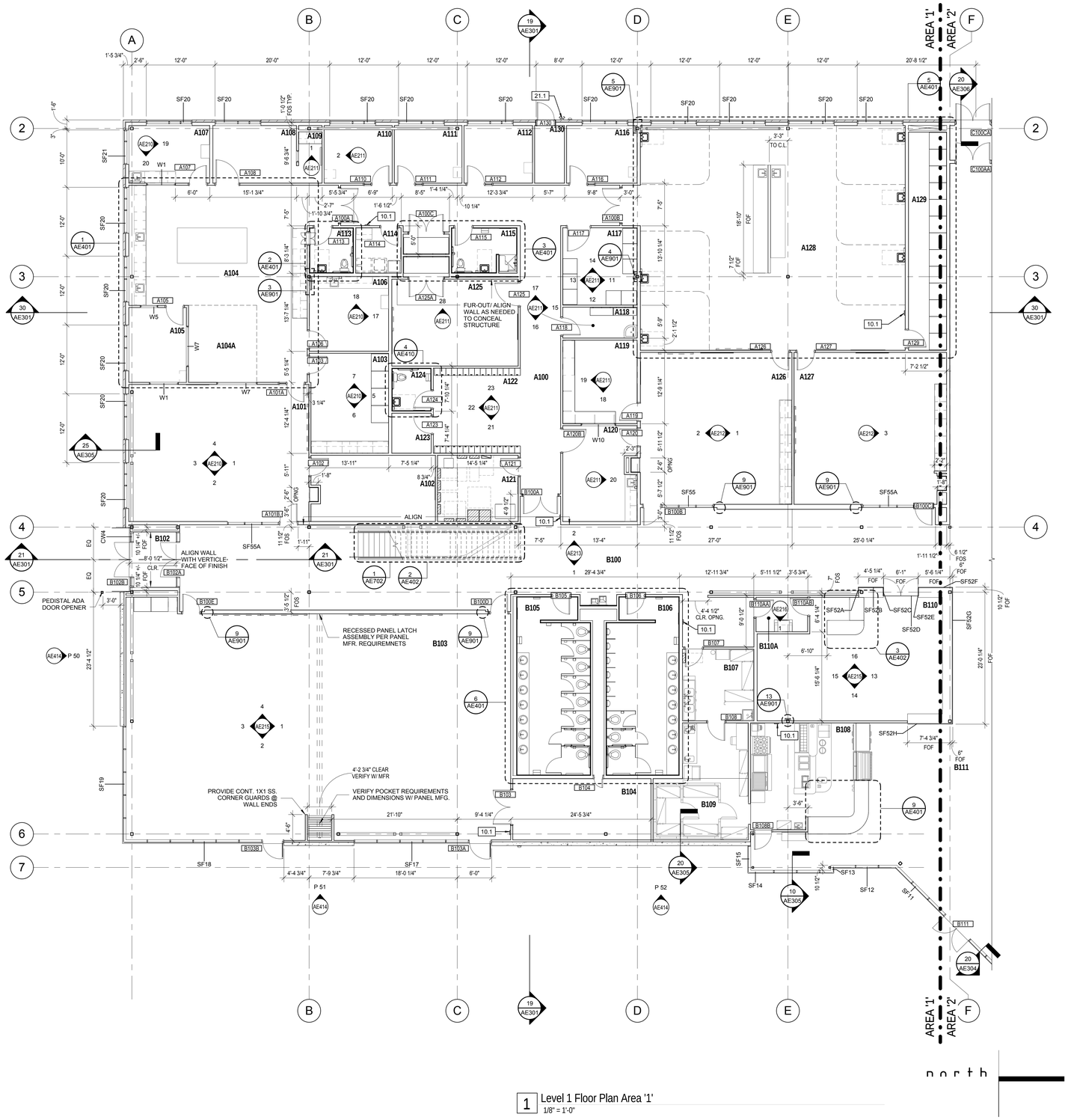
A124	TOILET
A125	CPR
A126	LPN/CNA CLASSROOM
A127	RN CLASSROOM
A128	LPN/RN/CNA LAB SUITE
A129	STORAGE
A130	FIRE RISER ROOM
B100	CORRIDOR
B101	LOBBY
B101A	VESTIBULE
B102	VESTIBULE
B103	MULTIPURPOSE ROOM
B104	STORAGE
B105	WOMEN
B106	MEN
B107	KITCHEN STORAGE
B108	KITCHEN
B109	WALK-IN COOLER
B110	BOOKSTORE
B110A	BOOKSTORE STORAGE
B111	CAFETERIA
B112	MEDIA
B113	PLACEMENT
B114	PLACEMENT OFFICE
B115	OFFICE
B116	ASSESSMENT
B117	ELEV. EQ.
B118	ELEVATOR
B119	RECEPTION
B120	ENROLLMENT
B120A	CORRIDOR
B121	ENROLMENT WAITING
B122	COUNSELOR
B123	SIS OFFICE
B124	STORAGE / STUDENT RECORDS
B125	SPARE OFFICE
B126	SS VP
C100	CORRIDOR
C100A	CORRIDOR
C100B	COORIDOR
C100C	VESTIBULE
C101	SHELLED LAB
C102	SHELLED CLASSROOM
C102A	RECEIVING
C103	CONSTRUCTION TECHNOLOGY LAB
C103A	VESTIBULE
C104	CONSTRUCTION TECHNOLOGY CLASSROOM
C105	CT STORAGE
C106	CT OFFICE
C107	WELDING LAB
C108	GRINDING
C109	MAIN ELECTRICAL
C110	SUPPLY ROOM
C111	TOOL STORAGE
C112	DIESEL CLASSROOM
C113	DIESEL OFFICE
C114	WELDING CLASSROOM
C115	WELDING OFFICE
C116	WL STORAGE
C117	LOCKER
C118	TOILET
C119	LOCKER
C120	TOILET
C121	CE & R LAB
C122	CE & R STORAGE
C123	CE & R OFFICE
C124	CE & R CLASSROOM



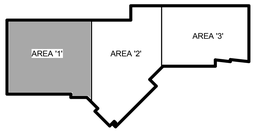
1 Level 1 Floor Plan Area '1'
1/8" = 1'-0"

GENERAL NOTES

1	SEE SHEET AE601 FOR DOOR AND WINDOW SCHEDULE.
2	SEE SHEET AE602, AE603 AND AE603 FOR ALL GLAZING ELEVATIONS. SEE AE605 FRAME TYPES AND DOOR TYPES
3	GUARDRAIL AND SUPPORTS TO BE SYMMETRICAL ACROSS FLOOR OPENINGS AND ADJACENT LIKE ELEMENTS TYP. INITIAL SUPPORTS TO BE 6" FROM START AND END OF GUARD RAIL RUNS TYP. MAX SPACING BETWEEN SUPPORTS TO BE 5'-0" TYP. NOT ALL GUARDRAILS ARE ELEVATED. COORDINATE ALL GUARDRAILS AND SUPPORTS WITH GUARDRAIL DETAIL SHEETS.
4	ALL INTERIOR EXPOSED STEEL TO BE PAINTED, SEE FINISH SCHEDULE. AREAS 2 & 3, WEST OF GRID 4 AND SHOP SPACES ARE EXCLUDED U.N.O.
5	PROVIDE SEMI-RIGID JOINT SEALER @ ALL INTERIOR CONCRETE JOINTS WEST OF GRID 4 AND NORTH OF GRID G
6	CONTRACTOR TO PROVIDE SOLID BLOCKING AT ALL CASE WORK, FIXED FURNISHINGS AND EQUIPMENT. COORDINATE WITH ELEVATIONS, SECTIONS AND FURNITURE AND FIXTURE SHEETS AND SPECIFICATIONS. SEE SHEET AE901 FOR TYPICAL DETAILS

KEYNOTE LEGEND

10.1	SEMI-RECESSED FIRE EXTINGUISHER CABINET
21.1	FIRE DEPARTMENT CONNECTION. SEE MECHANICAL.



LICENSED ARCHITECT 6710870 JOSEPH FLINT SMITH STATE OF UTAH
01.20.12

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METHOD STUDIO INC.
925 south west temple
salt lake city, utah 84101
phone:(801) 532-4422

consultants:

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project:
TOOELE APPLIED TECHNOLOGY COLLEGE - NEW BUILDING

88 South Tooele Blvd
Tooele, UT 84074

DFCM PROJECT #11064280

project#: 11.0420
date: 1/20/2012

revisions :

Lvl 1 Floor Plan Area '1'

sheet:

AE101

100% Construction Documents

ROOM SCHEDULE LEVEL _1	
Number	Name
A100	CORRIDOR
A101	MEDICAL ASSISTING CLASSROOM
A102	TESTING
A103	STORAGE
A104	MEDICAL ASSISTING LAB
A104A	LAB RECEPTION
A105	MA Office
A106	SURGERY
A107	EXAM
A108	XRAY
A109	X-RAY CONTROL
A110	OFFICE
A111	OFFICE
A112	OFFICE
A113	TOILET
A114	LAUNDRY
A115	INSTRUCTION TOILET
A116	OFFICE
A117	CNA STORAGE
A118	JANITOR
A119	CONTROL
A120	SIM ROOM
A121	ELECTRICAL
A122	LOCKER ROOM
A123	STORAGE
A124	TOILET
A125	CPR
A126	LPN/CNA CLASSROOM
A127	RN CLASSROOM
A128	LPN/RN/CNA LAB SUITE
A129	STORAGE
A130	FIRE RISER ROOM
B100	CORRIDOR
B101	LOBBY
B101A	VESTIBULE
B102	VESTIBULE
B103	MULTIPURPOSE ROOM
B104	STORAGE
B105	WOMEN
B106	MEN
B107	KITCHEN STORAGE
B108	KITCHEN
B109	WALK-IN COOLER
B110	BOOKSTORE
B110A	BOOKSTORE STORAGE
B111	CAFETERIA
B112	MEDIA
B113	PLACEMENT
B114	PLACEMENT OFFICE
B115	OFFICE
B116	ASSESSMENT
B117	ELEV. EQ.
B118	ELEVATOR
B119	RECEPTION
B120	ENROLLMENT
B120A	CORRIDOR
B121	ENROLMENT WAITING
B122	COUNSELOR
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B125	SPARE OFFICE
B126	SS VP
C100	CORRIDOR
C100A	CORRIDOR
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C114	WELDING CLASSROOM
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C119	LOCKER
C120	TOILET
C121	CE & R LAB
C122	CE & R STORAGE
C123	CE & R OFFICE
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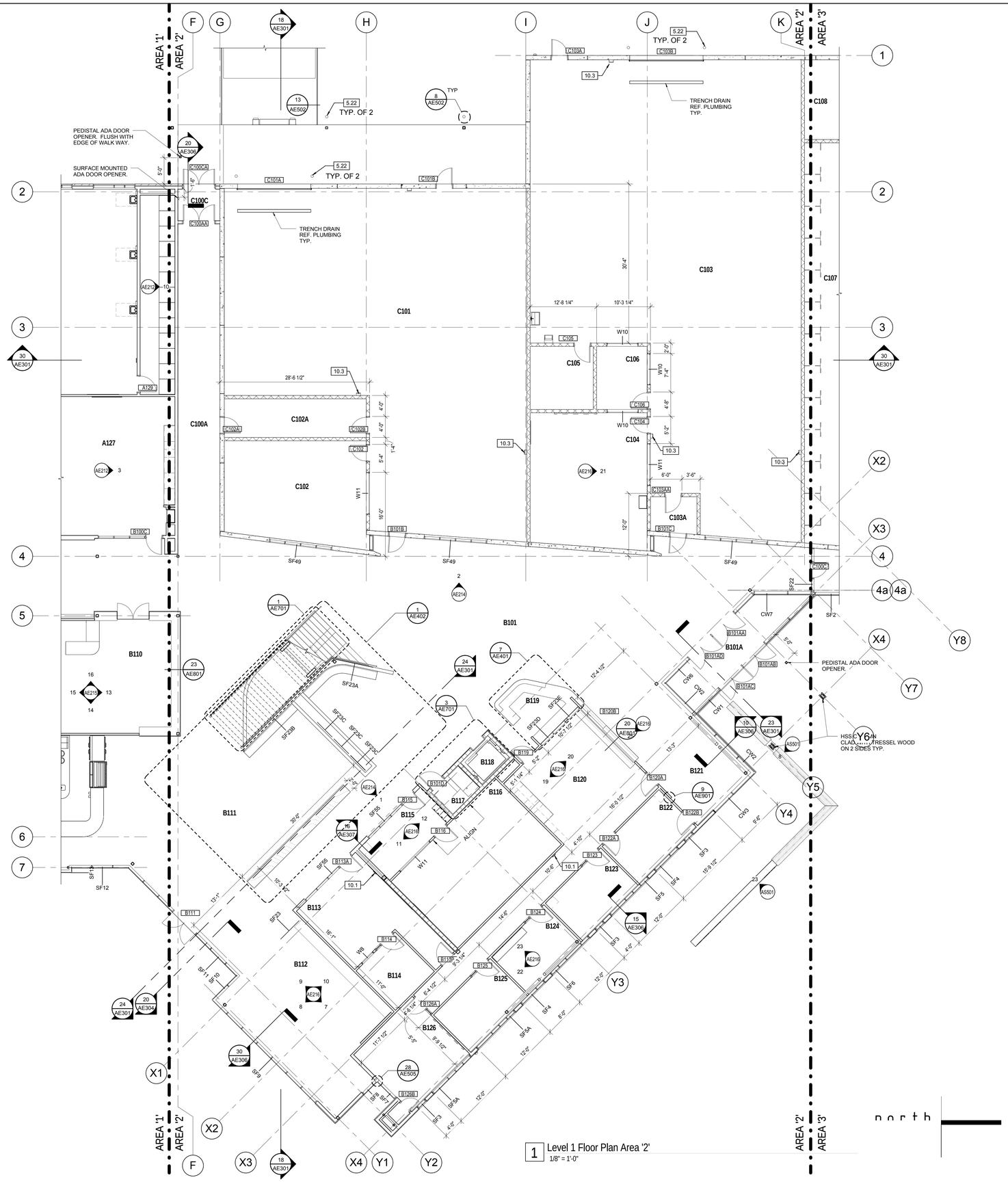


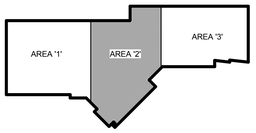
1 Level 1 Floor Plan Area '2'
1/8" = 1'-0"

GENERAL NOTES

1	SEE SHEET AE601 FOR DOOR AND WINDOW SCHEDULE.
2	SEE SHEET AE602, AE603 AND AE603 FOR ALL GLAZING ELEVATIONS. SEE AE605 FRAME TYPES AND DOOR TYPES
3	GUARDRAIL AND SUPPORTS TO BE SYMMETRICAL ACROSS FLOOR OPENINGS AND ADJACENT LIKE ELEMENTS TYP. INITIAL SUPPORTS TO BE 6" FROM START AND END OF GUARD RAIL RUNS TYP. MAX SPACING BETWEEN SUPPORTS TO BE 5'-0" TYP. NOT ALL GUARDRAILS ARE ELEVATED. COORDINATE ALL GUARDRAILS AND SUPPORTS WITH GUARDRAIL DETAIL SHEETS.
4	ALL INTERIOR EXPOSED STEEL TO BE PAINTED, SEE FINISH SCHEDULE. AREAS 2 & 3, WEST OF GRID 4 AND SHOP SPACES ARE EXCLUDED U.N.O.
5	PROVIDE SEMI-RIGID JOINT SEALER @ ALL INTERIOR CONCRETE JOINTS WEST OF GRID 4 AND NORTH OF GRID G
6	CONTRACTOR TO PROVIDE SOLID BLOCKING AT ALL CASE WORK, FIXED FURNISHINGS AND EQUIPMENT. COORDINATE WITH ELEVATIONS, SECTIONS AND FURNITURE AND FIXTURE SHEETS AND SPECIFICATIONS. SEE SHEET AE901 FOR TYPICAL DETAILS

KEYNOTE LEGEND

5.22	6" DIA. GALV. STEEL BOLLARD, SEE DETAIL 8/AE502
10.1	SEMI-RECESSED FIRE EXTINGUISHER CABINET
10.3	SURFACE-MOUNTED FIRE EXTINGUISHER CABINET



LICENSED ARCHITECT
6710870
JOSEPH FLINT SMITH
STATE OF UTAH
01.20.12

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project:
TOOELE APPLIED TECHNOLOGY COLLEGE - NEW BUILDING

88 South Tooele Blvd
Tooele, UT 84074

DFCM PROJECT #11064280

project#: 11.0420
date: 1/20/2012

revisions :

Lvl 1 Floor Plan Area '2'

sheet:

AE102

100% Construction Documents

ROOM SCHEDULE LEVEL _1	
Number	Name
A100	CORRIDOR
A101	MEDICAL ASSISTING CLASSROOM
A102	TESTING
A103	STORAGE
A104	MEDICAL ASSISTING LAB
A104A	LAB RECEPTION
A105	MA Office
A106	SURGERY
A107	EXAM
A108	XRAY
A109	X-RAY CONTROL
A110	OFFICE
A111	OFFICE
A112	OFFICE
A113	TOILET
A114	LAUNDRY
A115	INSTRUCTION TOILET
A116	OFFICE
A117	CNA STORAGE
A118	JANITOR
A119	CONTROL
A120	SIM ROOM
A121	ELECTRICAL
A122	LOCKER ROOM
A123	STORAGE
A124	TOILET
A125	CPR
A126	LPN/CNA CLASSROOM
A127	RN CLASSROOM
A128	LPN/RN/CNA LAB SUITE
A129	STORAGE
A130	FIRE RISER ROOM
B100	CORRIDOR
B101	LOBBY
B101A	VESTIBULE
B102	VESTIBULE
B103	MULTIPURPOSE ROOM
B104	STORAGE
B105	WOMEN
B106	MEN
B107	KITCHEN STORAGE
B108	KITCHEN
B109	WALK-IN COOLER
B110	BOOKSTORE
B110A	BOOKSTORE STORAGE
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B112	MEDIA
B113	PLACEMENT
B114	PLACEMENT OFFICE
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B120	ENROLLMENT
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C113	DIESEL OFFICE
C114	WELDING CLASSROOM
C115	WELDING OFFICE
C116	WL STORAGE
C117	LOCKER
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C119	LOCKER
C120	TOILET
C121	CE & R LAB
C122	CE & R STORAGE
C123	CE & R OFFICE
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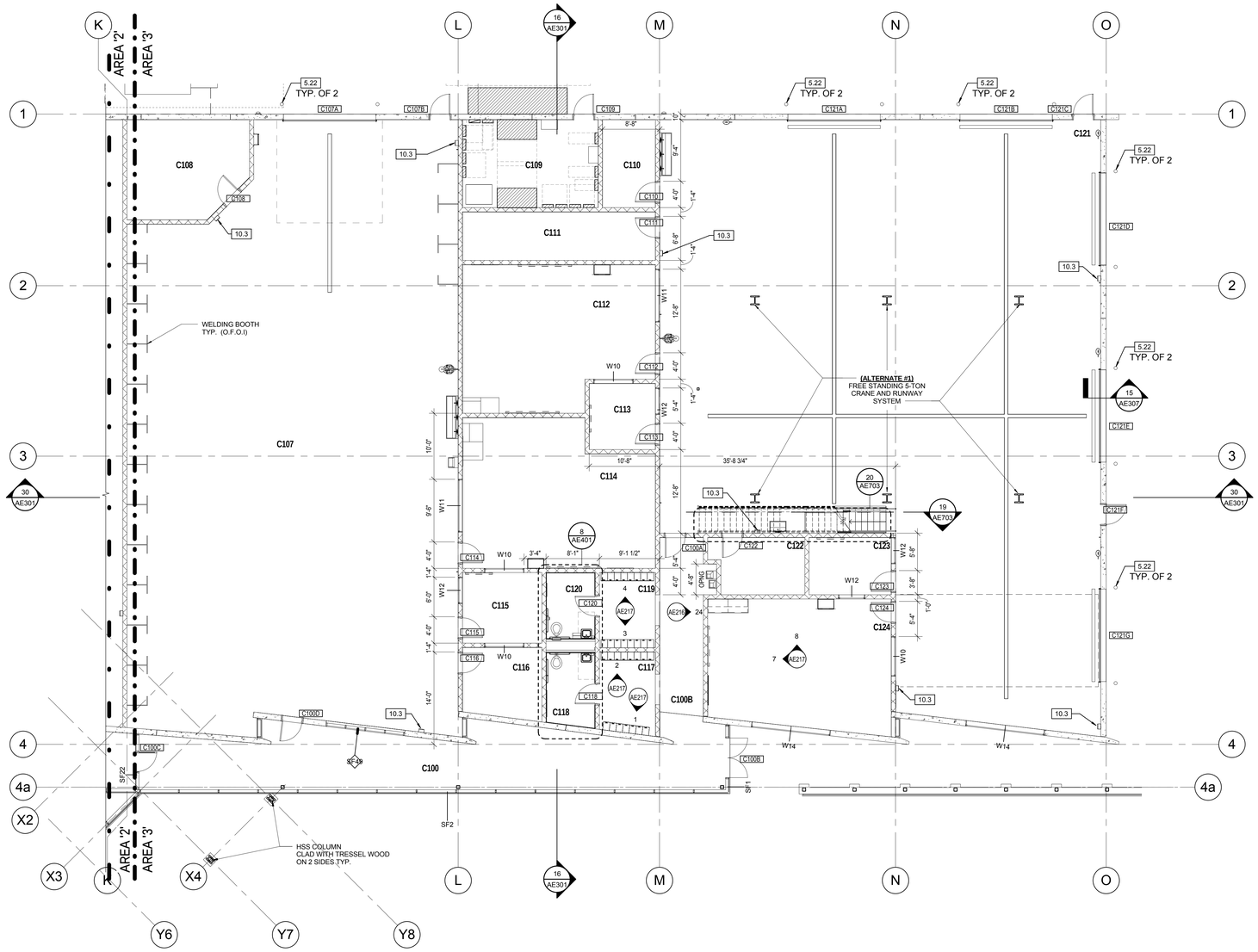

1 Level 1 Floor Plan Area "3"
1/8" = 1'-0"

north

GENERAL NOTES

1	SEE SHEET AE601 FOR DOOR AND WINDOW SCHEDULE.
2	SEE SHEET AE602, AE603 AND AE603 FOR ALL GLAZING ELEVATIONS. SEE AE605 FRAME TYPES AND DOOR TYPES
3	GUARDRAIL AND SUPPORTS TO BE SYMMETRICAL ACROSS FLOOR OPENINGS AND ADJACENT LIKE ELEMENTS TYP. INITIAL SUPPORTS TO BE 6" FROM START AND END OF GUARD RAIL RUNS TYP. MAX SPACING BETWEEN SUPPORTS TO BE 5'-0" TYP. NOT ALL GUARDRAILS ARE ELEVATED. COORDINATE ALL GUARDRAILS AND SUPPORTS WITH GUARDRAIL DETAIL SHEETS.
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5	PROVIDE SEMI-RIGID JOINT SEALER @ ALL INTERIOR CONCRETE JOINTS WEST OF GRID 4 AND NORTH OF GRID G
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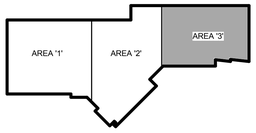
KEYNOTE LEGEND

5.22	6" DIA. GALV. STEEL BOLLARD, SEE DETAIL 8/AE502
10.3	SURFACE-MOUNTED FIRE EXTINGUISHER CABINET



LICENSED ARCHITECT 6710870 JOSEPH FLINT SMITH STATE OF UTAH
01.20.12

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consultants:

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project:
TOOELE APPLIED TECHNOLOGY COLLEGE - NEW BUILDING

88 South Tooele Blvd
Tooele, UT 84074

DFCM PROJECT #11064280

project#: 11.0420
date: 1/20/2012

revisions :

Lvl 1 Floor Plan Area '3'

sheet:

AE103

100% Construction Documents

ROOM SCHEDULE LEVEL _1	
Number	Name
A100	CORRIDOR
A101	MEDICAL ASSISTING CLASSROOM
A102	TESTING
A103	STORAGE
A104	MEDICAL ASSISTING LAB
A104A	LAB RECEPTION
A105	MA Office
A106	SURGERY
A107	EXAM
A108	XRAY
A109	X-RAY CONTROL
A110	OFFICE
A111	OFFICE
A112	OFFICE
A113	TOILET
A114	LAUNDRY
A115	INSTRUCTION TOILET
A116	OFFICE
A117	CNA STORAGE
A118	JANITOR
A119	CONTROL
A120	SIM ROOM
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A123	STORAGE
A124	TOILET
A125	CPR
A126	LPN/CNA CLASSROOM
A127	RN CLASSROOM
A128	LPN/RN/CNA LAB SUITE
A129	STORAGE
A130	FIRE RISER ROOM
B100	CORRIDOR
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B108	KITCHEN
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B111	CAFETERIA
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B113	PLACEMENT
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B116	ASSESSMENT
B117	ELEV. EQ.
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C100B	COORIDOR
C100C	VESTIBULE
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C103	CONSTRUCTION TECHNOLOGY LAB
C103A	VESTIBULE
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C109	MAIN ELECTRICAL
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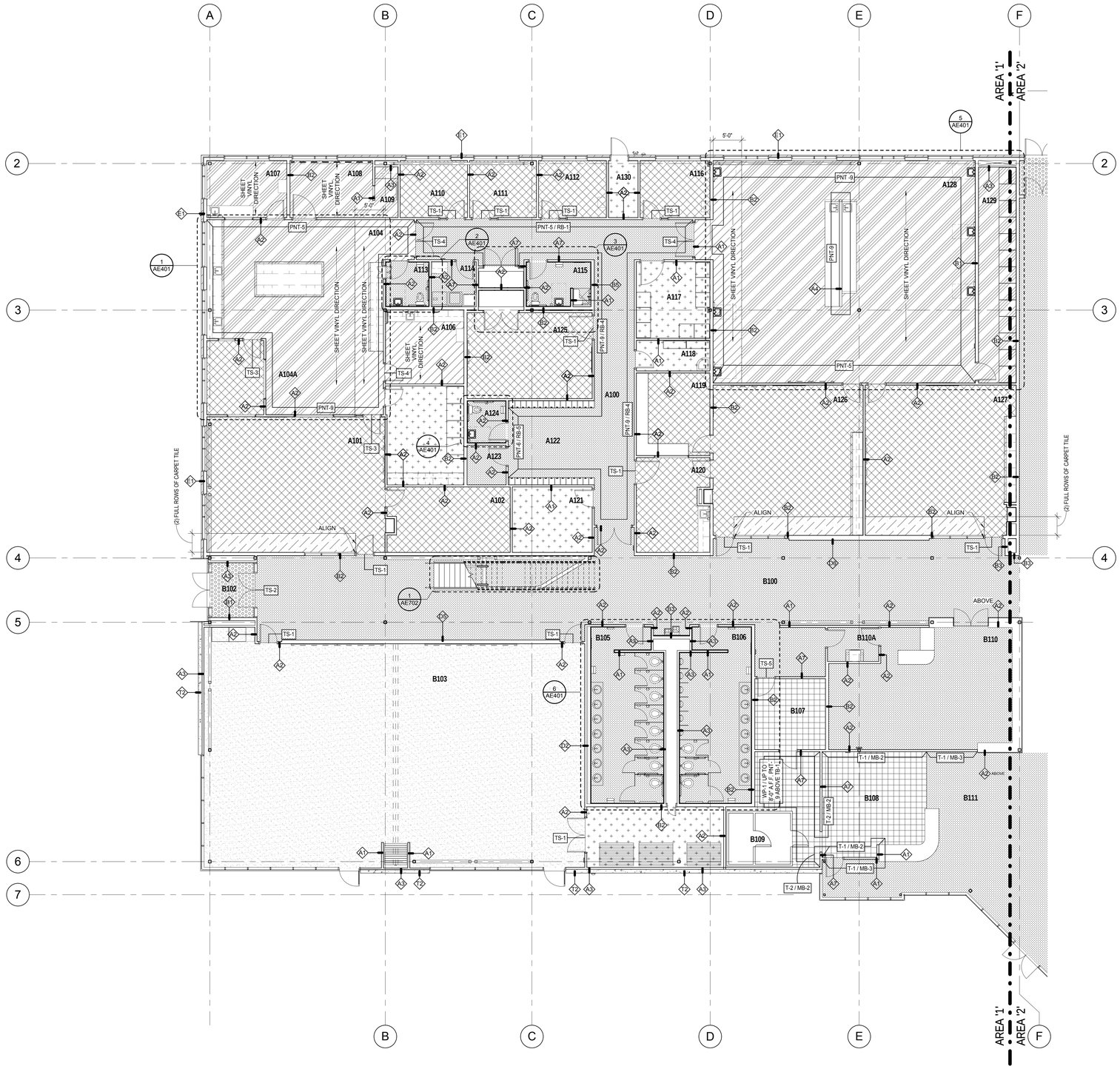
C120	TOILET
C121	CE & R LAB
C122	CE & R STORAGE
C123	CE & R OFFICE
C124	CE & R CLASSROOM



1 Level 1 Finish Plan Area '1'
1/8" = 1'-0"

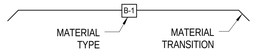
north

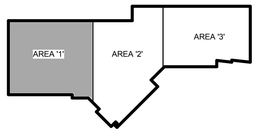
GENERAL FINISH FLOOR PLAN NOTES	
1	SEE FLOOR PLANS FOR INTERIOR ELEVATIONS
2	PROVIDE CEMENT BOARD AT ALL TILE LOCATIONS
3	ALL METAL STUD WALLS TO DECK ABOVE, SEE SHEET AE621 FOR WALL TYPES
4	PROVIDE DEFLECTION TRACKS @ ALL STUD WALLS, SEE DETAIL 4/AE804
5	ALL MATERIALS TO BE INSTALLED PER SPECIFIC MANUFACTURER'S INSTALLATION RECOMMENDATIONS
6	ALL EXPOSED METAL TO BE INSTALLED PER SPECIFIC MANUFACTURER'S INSTALLATION RECOMMENDATIONS
7	FLOORING MATERIAL TRANSITIONS TO OCCUR AT CENTER LINE OF DOOR THRESHOLDS, U.N.O.
8	PREPARE FLOORS/WALLS TO RECIEVE FINISH MATERIAL. REFER TO MANUFACTURERS RECOMMENDATIONS FOR SURFACE PREPERATION. NOTIFY ARCHITECT IF CONDITIONS ARE INADEQUATE FOR REQURED INSTALLATION.
9	REFER TO ROOM FINISH SCHEDULE AND MATERIAL LEGEND IN SHEET AE611 FOR MORE INFORMATION
10	SEE AE621 FOR WALL TYPES
11	CONTRACTOR TO PROVIDE SOLID BLOCKING AT ALL CASE WORK, FIXED FURNISHINGS AND EQUIPMENT. COORDINATE WITH ELEVATIONS, SECTIONS AND FURNITURE AND FIXTURE SHEETS AND SPECIFICATIONS. SEE SHEET AE901 FOR TYP. DETAILS
12	PROVIDE CEMENTITIOUS BOARD IN LIEU OF GYPSUM BOARD (BEHIND TILE), IN ROOMS A115, B228, B229, B230 AND B231.
13	WRAP GYP. BD. AT EXPOSED FURRING ENDS U.N.O.

FLOOR FINISH LEGEND

CODE	MATERIAL
CPT-1	CARPET TILE
CPT-2	CARPET TILE
CPT-3	CARPET TILE
CPT-4	CARPET TILE
CPT-5	CARPET TILE
CPT-6	WALK OFF MAT
PSC-1	POLISHED SEALED CONCRETE
SC-1	SEALED CONCRETE
T-2	PORCELAIN TILE
T-8	PORCELAIN TILE
T-10	MOSAIC TILE (2 1/2")
SV-1	SHEET VINYL
SV-2	SHEET VINYL
SCF-1	STATIC CONTROL FLOORING
VF-1	VINYL PLANK
WF-1	WOOD FLOORING
TS	TRANSITION STRIP

WALL / BASE FINISH LEGEND:





LICENSED ARCHITECT 6710870 JOSEPH FLINT SMITH STATE OF UTAH
01.20.12

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project:
TOOELE APPLIED TECHNOLOGY COLLEGE - NEW BUILDING

88 South Tooele Blvd
Tooele, UT 84074

DFCM PROJECT #11064280

project#: 11.0420
date: 1/20/2012

revisions :

Lvl 1 Wall Type/Finish Plan Area '1'

sheet:

AE111

100% Construction Documents

ROOM SCHEDULE LEVEL _1	
Number	Name
A100	CORRIDOR
A101	MEDICAL ASSISTING CLASSROOM
A102	TESTING
A103	STORAGE
A104	MEDICAL ASSISTING LAB
A104A	LAB RECEPTION
A105	MA Office
A106	SURGERY
A107	EXAM
A108	XRAY
A109	X-RAY CONTROL
A110	OFFICE
A111	OFFICE
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A113	TOILET
A114	LAUNDRY
A115	INSTRUCTION TOILET
A116	OFFICE
A117	CNA STORAGE
A118	JANITOR
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A127	RN CLASSROOM
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B102	VESTIBULE
B103	MULTIPURPOSE ROOM
B104	STORAGE
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B111	CAFETERIA
B112	MEDIA
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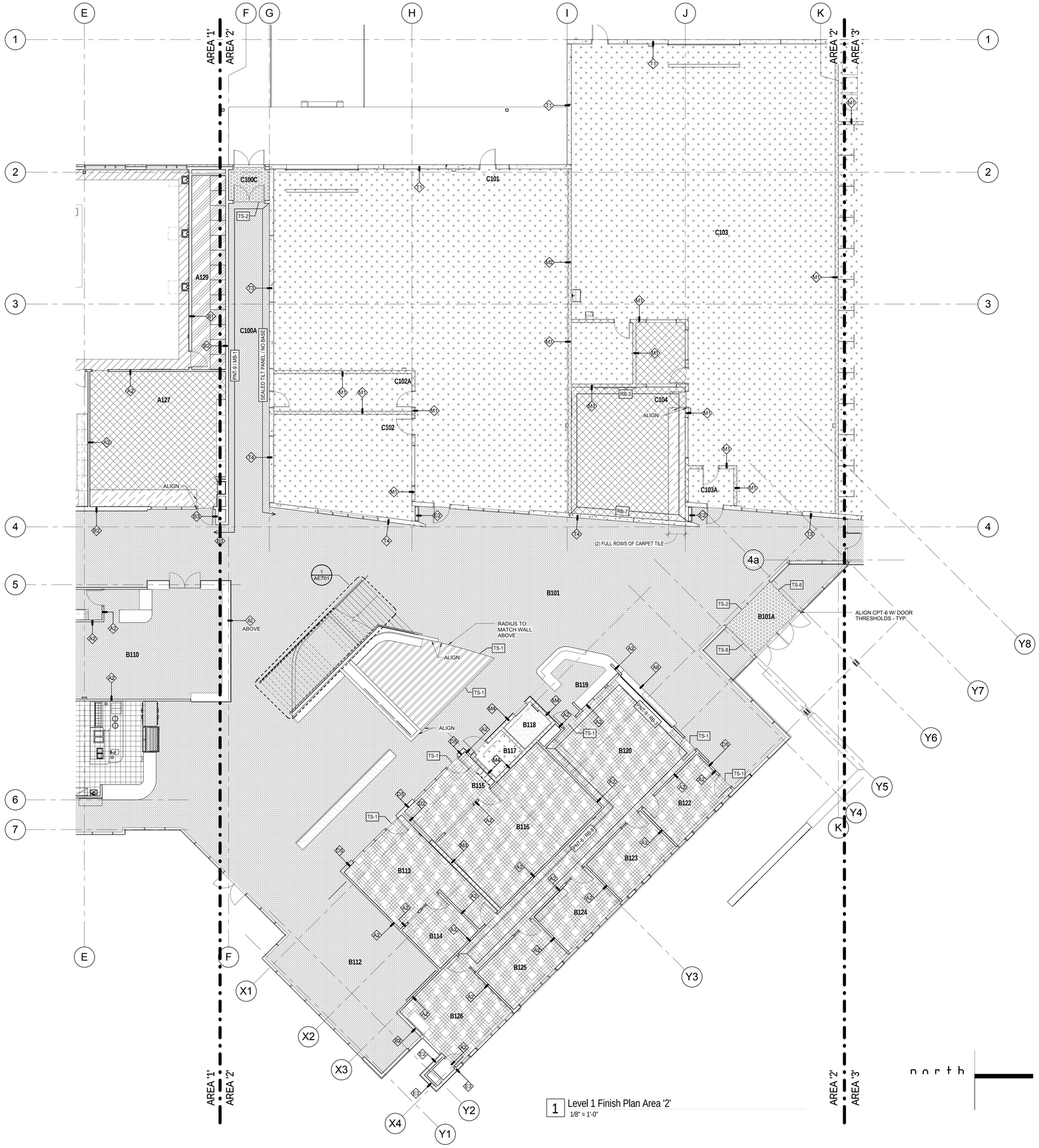
B122	COUNSELOR
B123	SIS OFFICE
B124	STORAGE / STUDENT RECORDS
B125	SPARE OFFICE
B126	SS VP
C100	CORRIDOR
C100A	CORRIDOR
C100B	COORIDOR
C100C	VESTIBULE
C101	SHELLED LAB
C102	SHELLED CLASSROOM
C102A	RECEIVING
C103	CONSTRUCTION TECHNOLOGY LAB
C103A	VESTIBULE
C104	CONSTRUCTION TECHNOLOGY CLASSROOM
C105	CT STORAGE
C106	CT OFFICE
C107	WELDING LAB
C108	GRINDING
C109	MAIN ELECTRICAL
C110	SUPPLY ROOM
C111	TOOL STORAGE
C112	DIESEL CLASSROOM
C113	DIESEL OFFICE
C114	WELDING CLASSROOM
C115	WELDING OFFICE
C116	WL STORAGE
C117	LOCKER
C118	TOILET
C119	LOCKER
C120	TOILET
C121	CE & R LAB
C122	CE & R STORAGE
C123	CE & R OFFICE
C124	CE & R CLASSROOM



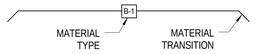
1 Level 1 Finish Plan Area '2'
1/8" = 1'-0"

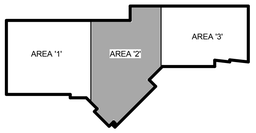
GENERAL FINISH FLOOR PLAN NOTES	
1	SEE FLOOR PLANS FOR INTERIOR ELEVATIONS
2	PROVIDE CEMENT BOARD AT ALL TILE LOCATIONS
3	ALL METAL STUD WALLS TO DECK ABOVE, SEE SHEET AE621 FOR WALL TYPES
4	PROVIDE DEFLECTION TRACKS @ ALL STUD WALLS, SEE DETAIL 4/AE804
5	ALL MATERIALS TO BE INSTALLED PER SPECIFIC MANUFACTURER'S INSTALLATION RECOMMENDATIONS
6	ALL EXPOSED METAL TO BE INSTALLED PER SPECIFIC MANUFACTURER'S INSTALLATION RECOMMENDATIONS
7	FLOORING MATERIAL TRANSITIONS TO OCCUR AT CENTER LINE OF DOOR THRESHOLDS, U.N.O.
8	PREPARE FLOORS/WALLS TO RECIEVE FINISH MATERIAL. REFER TO MANUFACTURERS RECOMMENDATIONS FOR SURFACE PREPERATION. NOTIFY ARCHITECT IF CONDITIONS ARE INADEQUATE FOR REQURED INSTALLATION.
9	REFER TO ROOM FINISH SCHEDULE AND MATERIAL LEGEND IN SHEET AE611 FOR MORE INFORMATION
10	SEE AE621 FOR WALL TYPES
11	CONTRACTOR TO PROVIDE SOLID BLOCKING AT ALL CASE WORK, FIXED FURNISHINGS AND EQUIPMENT. COORDINATE WITH ELEVATIONS, SECTIONS AND FURNITURE AND FIXTURE SHEETS AND SPECIFICATIONS. SEE SHEET AE901 FOR TYP. DETAILS
12	PROVIDE CEMENTITIOUS BOARD IN LIEU OF GYPSUM BOARD (BEHIND TILE), IN ROOMS A115, B228, B229, B230 AND B231.
13	WRAP GYP. BD. AT EXPOSED FURRING ENDS U.N.O.

FLOOR FINISH LEGEND

CODE	MATERIAL
CPT-1	CARPET TILE
CPT-2	CARPET TILE
CPT-3	CARPET TILE
CPT-4	CARPET TILE
CPT-5	CARPET TILE
CPT-6	WALK OFF MAT
PSC-1	POLISHED SEALED CONCRETE
SC-1	SEALED CONCRETE
T-2	PORCELAIN TILE
T-8	PORCELAIN TILE
T-10	MOSAIC TILE (2 1/2")
SV-1	SHEET VINYL
SV-2	SHEET VINYL
SCF-1	STATIC CONTROL FLOORING
VF-1	VINYL PLANK
WF-1	WOOD FLOORING
TS	TRANSITION STRIP

WALL / BASE FINISH LEGEND:





LICENSED ARCHITECT 6710870 JOSEPH FLINT SMITH STATE OF UTAH
01.20.12

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925 south west temple
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project:
TOOELE APPLIED TECHNOLOGY COLLEGE - NEW BUILDING

88 South Tooele Blvd
Tooele, UT 84074

DFCM PROJECT #11064280

project#: 11.0420
date: 1/20/2012

revisions :

Lvl 1 Wall Type/Finish Plan Area '2'

sheet:

AE112

100% Construction Documents

ROOM SCHEDULE LEVEL _1	
Number	Name
A100	CORRIDOR
A101	MEDICAL ASSISTING CLASSROOM
A102	TESTING
A103	STORAGE
A104	MEDICAL ASSISTING LAB
A104A	LAB RECEPTION
A105	MA Office
A106	SURGERY
A107	EXAM
A108	XRAY
A109	X-RAY CONTROL
A110	OFFICE
A111	OFFICE
A112	OFFICE
A113	TOILET
A114	LAUNDRY
A115	INSTRUCTION TOILET
A116	OFFICE
A117	CNA STORAGE
A118	JANITOR
A119	CONTROL
A120	SIM ROOM
A121	ELECTRICAL
A122	LOCKER ROOM
A123	STORAGE
A124	TOILET
A125	CPR
A126	LPN/CNA CLASSROOM
A127	RN CLASSROOM
A128	LPN/RN/CNA LAB SUITE
A129	STORAGE
A130	FIRE RISER ROOM
B100	CORRIDOR
B101	LOBBY
B101A	VESTIBULE
B102	VESTIBULE
B103	MULTIPURPOSE ROOM
B104	STORAGE
B105	WOMEN
B106	MEN
B107	KITCHEN STORAGE
B108	KITCHEN
B109	WALK-IN COOLER
B110	BOOKSTORE
B110A	BOOKSTORE STORAGE
B111	CAFETERIA
B112	MEDIA
B113	PLACEMENT
B114	PLACEMENT OFFICE
B115	OFFICE
B116	ASSESSMENT
B117	ELEV. EQ.
B118	ELEVATOR
B119	RECEPTION
B120	ENROLLMENT
B120A	CORRIDOR
B121	ENROLMENT WAITING
B122	COUNSELOR
B123	SIS OFFICE
B124	STORAGE / STUDENT RECORDS
B125	SPARE OFFICE
B126	SS VP
C100	CORRIDOR
C100A	CORRIDOR
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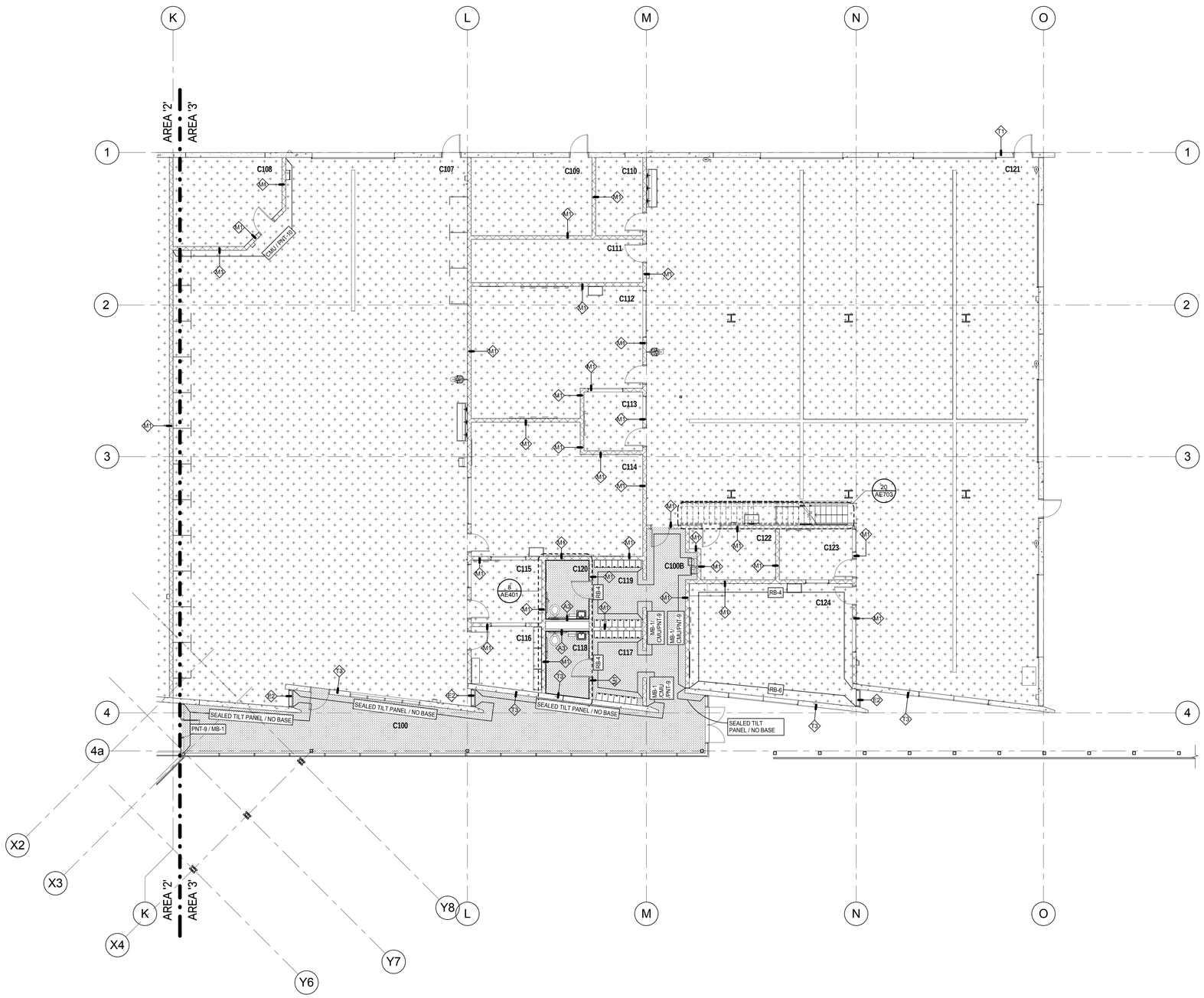
C110	SUPPLY ROOM
C111	TOOL STORAGE
C112	DIESEL CLASSROOM
C113	DIESEL OFFICE
C114	WELDING CLASSROOM
C115	WELDING OFFICE
C116	WL STORAGE
C117	LOCKER
C118	TOILET
C119	LOCKER
C120	TOILET
C121	CE & R LAB
C122	CE & R STORAGE
C123	CE & R OFFICE
C124	CE & R CLASSROOM



1 Level 1 Finish Plan Area '3'
1/8" = 1'-0"

north

GENERAL FINISH FLOOR PLAN NOTES	
1	SEE FLOOR PLANS FOR INTERIOR ELEVATIONS
2	PROVIDE CEMENT BOARD AT ALL TILE LOCATIONS
3	ALL METAL STUD WALLS TO DECK ABOVE, SEE SHEET AE621 FOR WALL TYPES
4	PROVIDE DEFLECTION TRACKS @ ALL STUD WALLS, SEE DETAIL 4/AE804
5	ALL MATERIALS TO BE INSTALLED PER SPECIFIC MANUFACTURER'S INSTALLATION RECOMMENDATIONS
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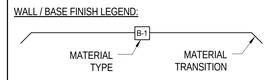
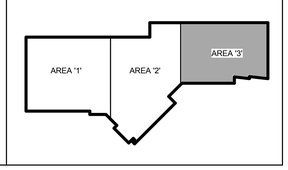
FLOOR FINISH LEGEND

CODE	MATERIAL
CPT-1	CARPET TILE
CPT-2	CARPET TILE
CPT-3	CARPET TILE
CPT-4	CARPET TILE
CPT-5	CARPET TILE
CPT-6	WALK OFF MAT
PSC-1	POLISHED SEALED CONCRETE
SC-1	SEALED CONCRETE
T-2	PORCELAIN TILE
T-8	PORCELAIN TILE
T-10	MOSAIC TILE (2 1/2")
SV-1	SHEET VINYL
SV-2	SHEET VINYL
SCF-1	STATIC CONTROL FLOORING
VF-1	VINYL PLANK
WF-1	WOOD FLOORING
TS	TRANSITION STRIP

WALL / BASE FINISH LEGEND:





LICENSED ARCHITECT
6710870
JOSEPH FLINT SMITH
STATE OF UTAH
01.20.12

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project:
TOOELE APPLIED TECHNOLOGY COLLEGE - NEW BUILDING

88 South Tooele Blvd
Tooele, UT 84074

DFCM PROJECT #11064280

project#: 11.0420
date: 1/20/2012

revisions :

Lvl 1 Wall Type/Finish Plan Area '3'

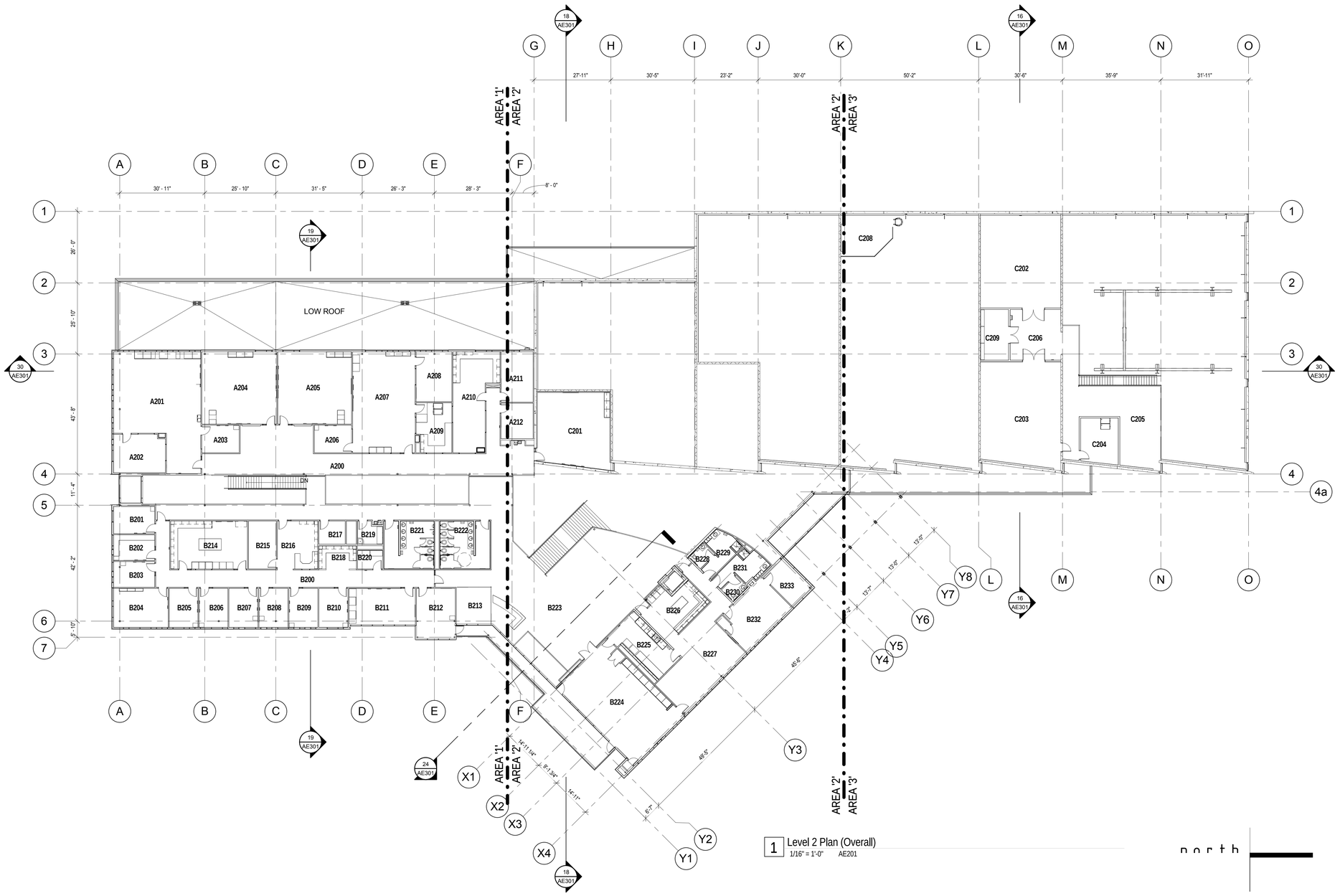
sheet:

AE113

100% Construction Documents

A200	CORRIDOR	2782 SF
A201	BT LAB	1129 SF
A202	TESTING	259 SF
A203	BT OFFICE	135 SF
A204	USU CLASSROOM	716 SF
A205	USU CLASSROOM	705 SF
A206	IT OFFICE	135 SF
A207	IT CLASSROOM	836 SF
A208	IT TESTING	236 SF
A209	IT LAB	225 SF
A210	SERVER / IT STORAGE	490 SF
A211	IT ADMIN	213 SF
A212	IT ASSISTANT	151 SF
B200	CORRIDOR	726 SF
B201	DIRECTOR	149 SF
B202	CURRICULUM DEVELOPER	140 SF
B203	ASSISTANT	140 SF
B204	VP INSTRUCTION OFFICE	283 SF
B205	DIRECTOR	148 SF
B206	CUSTOM	149 SF
B207	USU OFFICE	149 SF
B208	USU OFFICE	149 SF
B209	DIRECTOR OFFICE / FINANCE	149 SF
B210	HUMAN RESOURCES	149 SF
B211	EXECUTIVE CONFERENCE ROOM	326 SF
B212	PRESIDENT	260 SF
B213	PRESIDENT ASSISTANT	173 SF
B214	MARKETING / OFFICE	486 SF

B215	STORAGE RECORDS	176 SF
B216	OPEN OFFICE 2-3 PPL	258 SF
B217	ELECTRICAL	81 SF
B218	PRINT / STOR.	115 SF
B219	JAN.	69 SF
B220	STOR.	62 SF
B221	MEN	303 SF
B222	WOMEN	303 SF
B223	RECEPTION / WAITING	1866 SF
B224	BOARDROOM	1015 SF
B225	KITCHEN	282 SF
B226	WORKROOM	300 SF
B227	FACULTY/ BREAK	736 SF
B228	TOILET	46 SF
B229	LOCKER/SHOWER	125 SF
B230	TOILET	45 SF
B231	LOCKER/SHOWER	144 SF
B232	EXERCISE	359 SF
B233	WELLNESS	162 SF
C201	CDL CLASSROOM	707 SF
C202	PUMP	986 SF
C203	BOILER	1090 SF
C204	IT WORKROOM	222 SF
C205	STORAGE	605 SF
C206	CORRIDOR	636 SF
C208	MEZZANINE STORAGE	270 SF
C209	STORAGE	188 SF



1 Level 2 Plan (Overall)
1/16" = 1'-0" AE201

GENERAL NOTES

1	SEE SHEET AE601 FOR DOOR AND WINDOW SCHEDULE.
2	SEE SHEET AE602, AE603 AND AE603 FOR ALL GLAZING ELEVATIONS. SEE AE605 FRAME TYPES AND DOOR TYPES
3	GUARDRAIL AND SUPPORTS TO BE SYMMETRICAL ACROSS FLOOR OPENINGS AND ADJACENT LIKE ELEMENTS TYP. INITIAL SUPPORTS TO BE 6" FROM START AND END OF GUARD RAIL RUNS TYP. MAX SPACING BETWEEN SUPPORTS TO BE 5'-0" TYP. NOT ALL GUARDRAILS ARE ELEVATED. COORDINATE ALL GUARDRAILS AND SUPPORTS WITH GUARDRAIL DETAIL SHEETS.
4	ALL INTERIOR EXPOSED STEEL TO BE PAINTED, SEE FINISH SCHEDULE. AREAS 2 & 3, WEST OF GRID 4 AND SHOP SPACES ARE EXCLUDED U.N.O.
5	PROVIDE SEMI-RIGID JOINT SEALER @ ALL INTERIOR CONCRETE JOINTS WEST OF GRID 4 AND NORTH OF GRID G
6	CONTRACTOR TO PROVIDE SOLID BLOCKING AT ALL CASE WORK, FIXED FURNISHINGS AND EQUIPMENT. COORDINATE WITH ELEVATIONS, SECTIONS AND FURNITURE AND FIXTURE SHEETS AND SPECIFICATIONS. SEE SHEET AE901 FOR TYPICAL DETAILS

LICENSED ARCHITECT
6710870
JOSEPH FLINT SMITH
STATE OF UTAH
01.20.12

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project:
TOOELE APPLIED TECHNOLOGY COLLEGE - NEW BUILDING

88 South Tooele Blvd
Tooele, UT 84074

DFCM PROJECT #11064280

project#: 11.0420
date: 1/20/2012

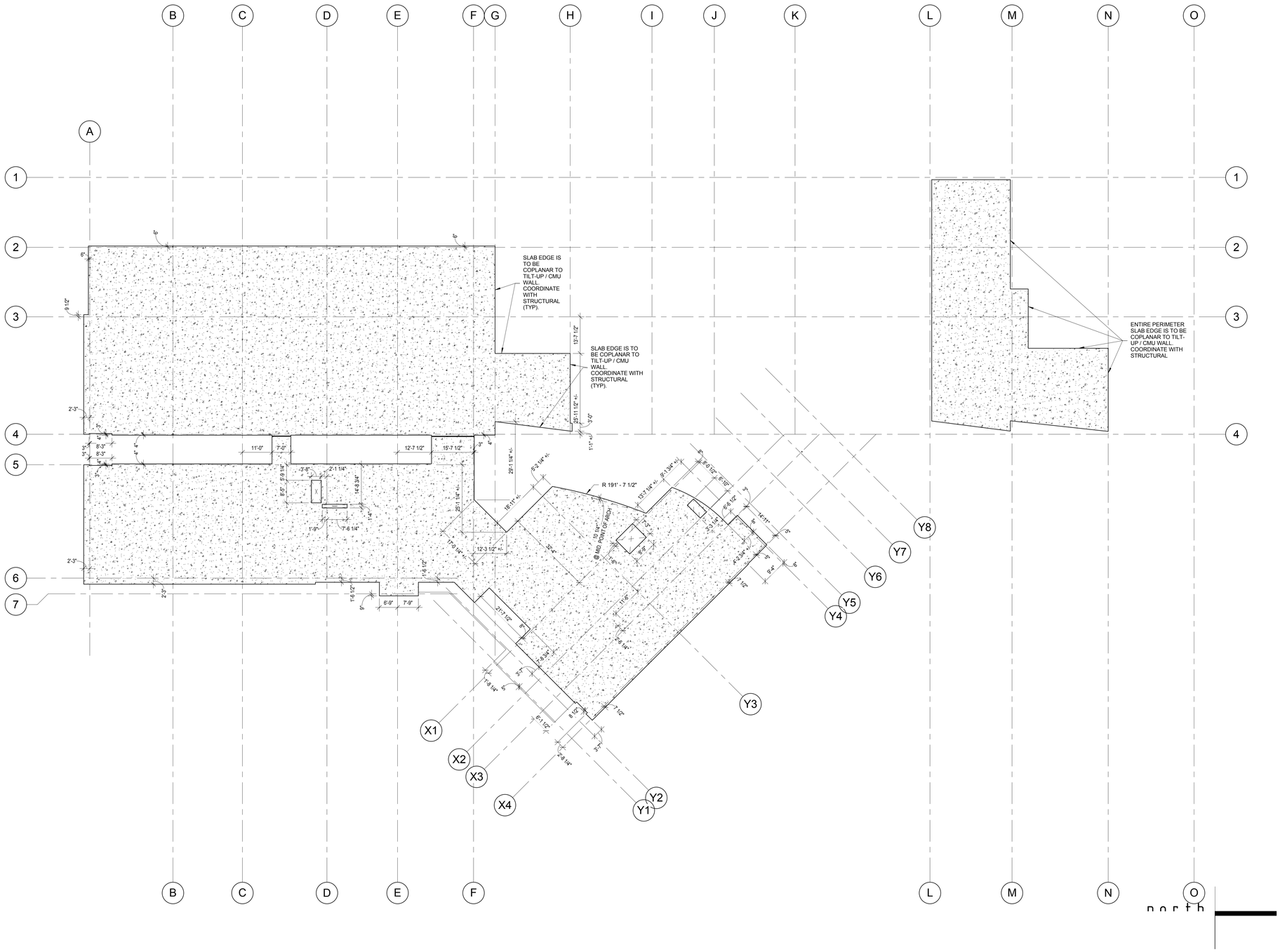
revisions :

Level 2 Overall Plan

sheet:

AE120

100% Construction Documents



1 Level 2 Slab Edge Plan
1/16" = 1'-0"

SLAB EDGE PLAN GENERAL NOTES

1.	ALL PERIMETER SLAB EDGES ARE COPLANAR TO EXTERIOR FOUNDATION WALL UNLESS OTHERWISE NOTED.
2.	ALL SLAB EDGES ADJACENT TO TILT UP CONC. ARE TO BE COORDINATED BY GENERAL CONTRACTOR ON SITE.
3.	NOT ALL PENETRATIONS SHOWN - SEE MECH. PLUMB. & ELEC. SHEETS. FIELD VERIFY ALL REQ. PENETRATIONS. SEE - STRUCTURAL FOR REINFORCING REQ.

SLAB EDGE PLAN GENERAL NOTES

TYPE A	*TYP. CONCRETE SLAB
TYPE B	*TYP. CONCRETE SLAB @ SHOP / WORK SPACE
TYPE C	*2" DEPRESSED CONCRETE SLAB
TYPE D	*7" DEPRESSED CONCRETE SLAB
TYPE E	*1" RECESSED CONCRETE SLAB
	*TILT-UP CONCRETE WALL
	*TRENCH DRAIN

LICENSED ARCHITECT 6710870 JOSEPH FLINT SMITH STATE OF UTAH
01.20.12

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DFCM PROJECT #11064280

project#: 11.0420
date: 1/20/2012

revisions :

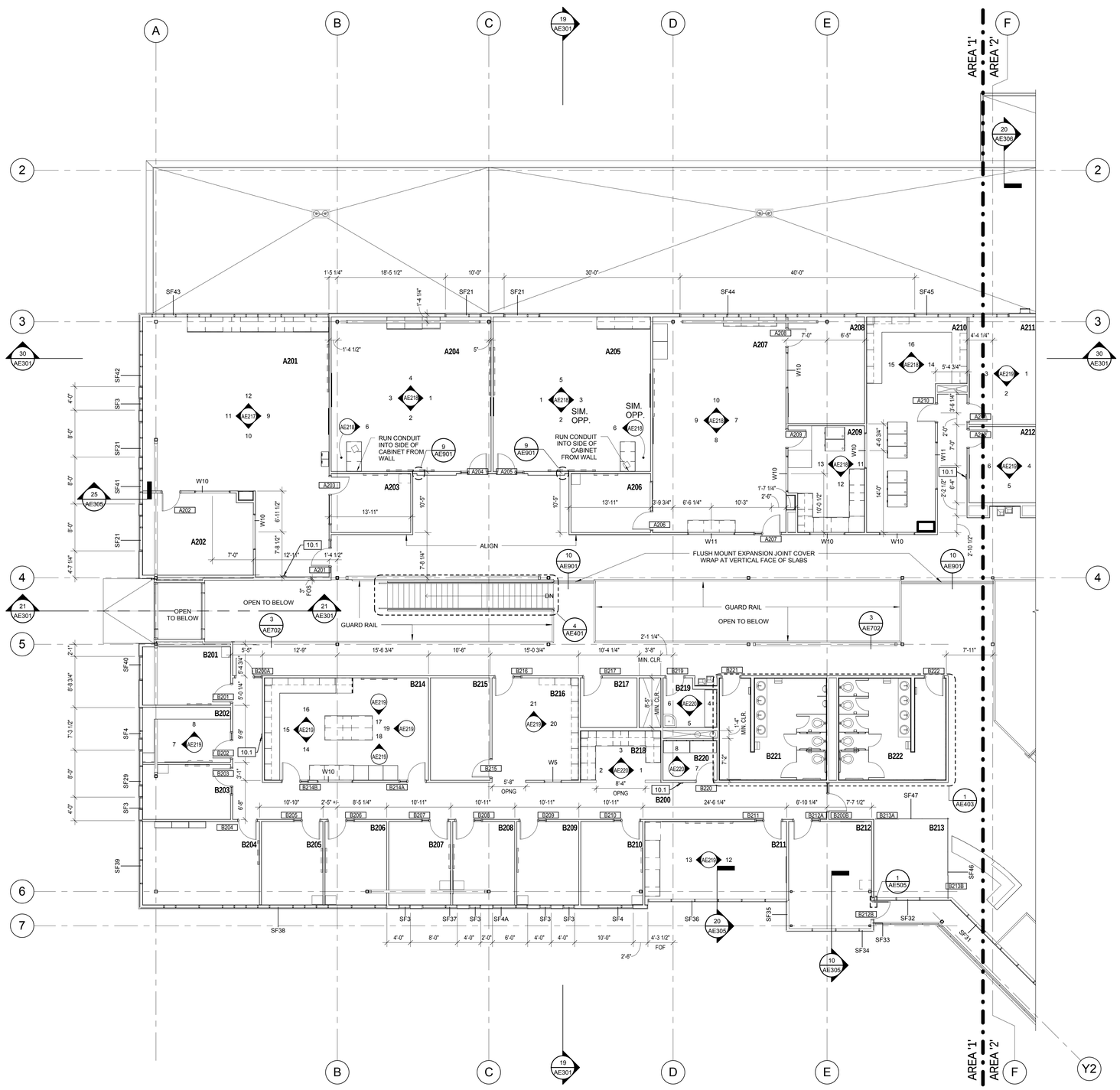
Lvl 2 Slab Edge Plan

sheet:

AE120A

100% Construction Documents

ROOM SCHEDULE LEVEL 2	
Number	Name
A200	CORRIDOR
A201	BT LAB
A202	TESTING
A203	BT OFFICE
A204	USU CLASSROOM
A205	USU CLASSROOM
A206	IT OFFICE
A207	IT CLASSROOM
A208	IT TESTING
A209	IT LAB
A210	SERVER / IT STORAGE
A211	IT ADMIN
A212	IT ASSISTANT
B200	CORRIDOR
B201	DIRECTOR
B202	CURRICULUM DEVELOPER
B203	ASSISTANIT
B204	VP INSTRUCTION OFFICE
B205	DIRECTOR
B206	CUSTOM
B207	USU OFFICE
B208	USU OFFICE
B209	DIRECTOR OFFICE / FINANCE
B210	HUMAN RESOURCES
B211	EXECUTIVE CONFERENCE ROOM
B212	PRESIDENT
B213	PRESIDENT ASSISTANT
B214	MARKETING / OFFICE
B215	STORAGE RECORDS
B216	OPEN OFFICE 2-3 PPL
B217	ELECTRICAL
B218	PRINT / STOR.
B219	JAN.
B220	STOR.
B221	MEN
B222	WOMEN
B223	RECEPTION / WAITING
B224	BOARDROOM
B225	KITCHEN
B226	WORKROOM
B227	FACULTY/ BREAK
B228	TOILET
B229	LOCKER/SHOWER
B230	TOILET
B231	LOCKER/SHOWER
B232	EXERCISE
B233	WELLNESS
C201	CDL CLASSROOM
C202	PUMP
C203	BOILER
C204	IT WORKROOM
C205	STORAGE
C206	CORRIDOR
C208	MEZZANINE STORAGE
C209	STORAGE



1 Level 2 Floor Plan Area "1"
1/8" = 1'-0"

GENERAL NOTES

1	SEE SHEET AE601 FOR DOOR AND WINDOW SCHEDULE.
2	SEE SHEET AE602, AE603 AND AE603 FOR ALL GLAZING ELEVATIONS. SEE AE605 FRAME TYPES AND DOOR TYPES
3	GUARDRAIL AND SUPPORTS TO BE SYMMETRICAL ACROSS FLOOR OPENINGS AND ADJACENT LIKE ELEMENTS TYP. INITIAL SUPPORTS TO BE 6" FROM START AND END OF GUARD RAIL RUNS TYP. MAX SPACING BETWEEN SUPPORTS TO BE 5'-0" TYP. NOT ALL GUARDRAILS ARE ELEVATED. COORDINATE ALL GUARDRAILS AND SUPPORTS WITH GUARDRAIL DETAIL SHEETS.
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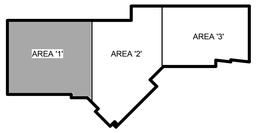
KEYNOTE LEGEND

10.1	SEMI-RECESSED FIRE EXTINGUISHER CABINET



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88 South Tooele Blvd
Tooele, UT 84074

DFCM PROJECT #11064280

project#: 11.0420
date: 1/20/2012

revisions :

Lvl 2 Floor Plan Area '1'

sheet:

AE121

100% Construction Documents

ROOM SCHEDULE LEVEL 2	
Number	Name
A200	CORRIDOR
A201	BT LAB
A202	TESTING
A203	BT OFFICE
A204	USU CLASSROOM
A205	USU CLASSROOM
A206	IT OFFICE
A207	IT CLASSROOM
A208	IT TESTING
A209	IT LAB
A210	SERVER / IT STORAGE
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A212	IT ASSISTANT
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B204	VP INSTRUCTION OFFICE
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B208	USU OFFICE
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B210	HUMAN RESOURCES
B211	EXECUTIVE CONFERENCE ROOM
B212	PRESIDENT
B213	PRESIDENT ASSISTANT
B214	MARKETING / OFFICE
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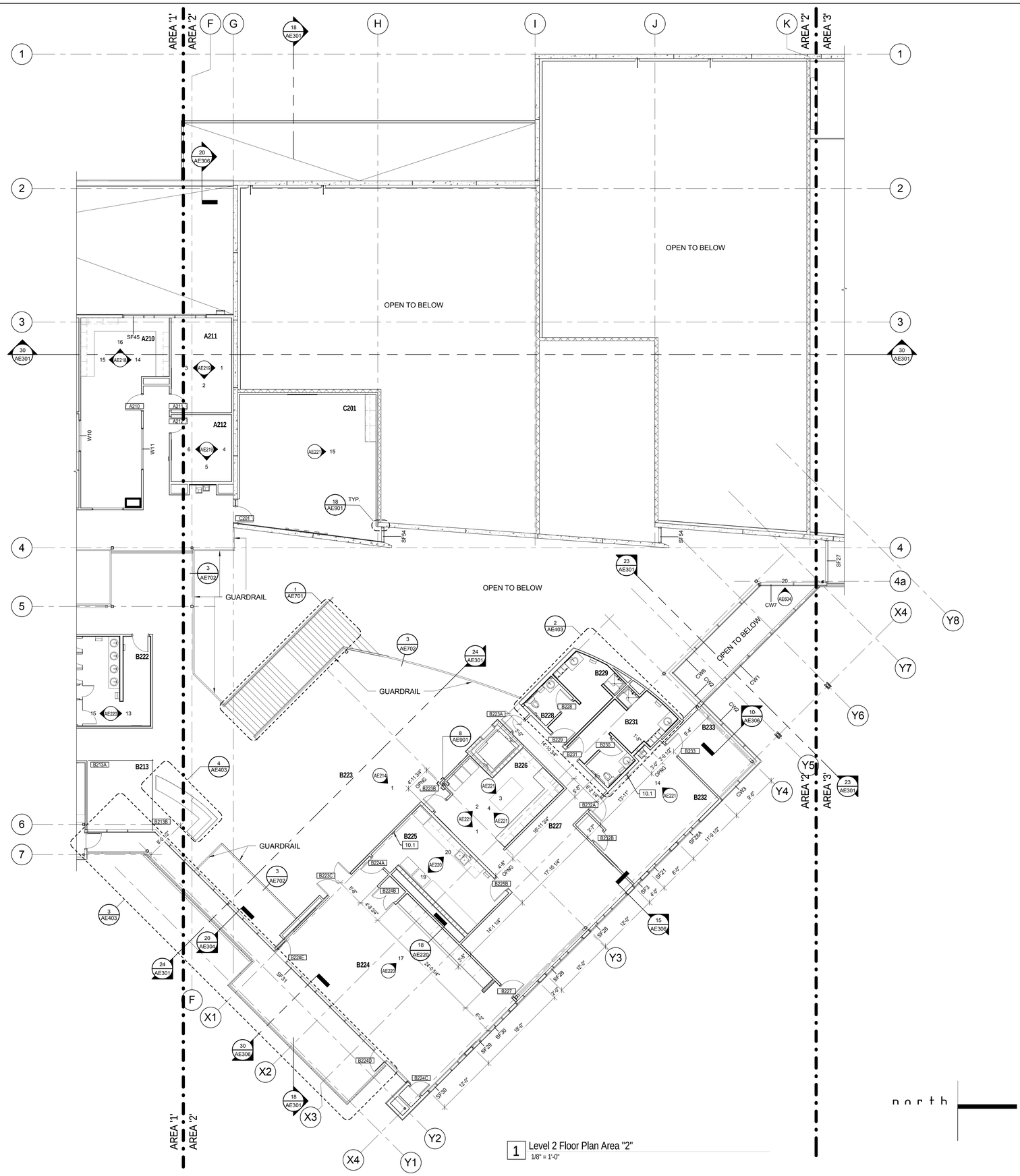
B216	OPEN OFFICE 2-3 PPL
B217	ELECTRICAL
B218	PRINT / STOR.
B219	JAN.
B220	STOR.
B221	MEN
B222	WOMEN
B223	RECEPTION / WAITING
B224	BOARDROOM
B225	KITCHEN
B226	WORKROOM
B227	FACULTY/ BREAK
B228	TOILET
B229	LOCKER/SHOWER
B230	TOILET
B231	LOCKER/SHOWER
B232	EXERCISE
B233	WELLNESS
C201	CDL CLASSROOM
C202	PUMP
C203	BOILER
C204	IT WORKROOM
C205	STORAGE
C206	CORRIDOR
C208	MEZZANINE STORAGE
C209	STORAGE



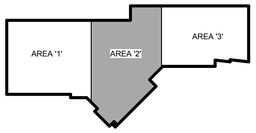
1 Level 2 Floor Plan Area "2"
1/8" = 1'-0"

GENERAL NOTES

1	SEE SHEET AE601 FOR DOOR AND WINDOW SCHEDULE.
2	SEE SHEET AE602, AE603 AND AE603 FOR ALL GLAZING ELEVATIONS. SEE AE605 FRAME TYPES AND DOOR TYPES
3	GUARDRAIL AND SUPPORTS TO BE SYMMETRICAL ACROSS FLOOR OPENINGS AND ADJACENT LIKE ELEMENTS TYP. INITIAL SUPPORTS TO BE 6" FROM START AND END OF GUARD RAIL RUNS TYP. MAX SPACING BETWEEN SUPPORTS TO BE 5'-0" TYP. NOT ALL GUARDRAILS ARE ELEVATED. COORDINATE ALL GUARDRAILS AND SUPPORTS WITH GUARDRAIL DETAIL SHEETS.
4	ALL INTERIOR EXPOSED STEEL TO BE PAINTED, SEE FINISH SCHEDULE. AREAS 2 & 3, WEST OF GRID 4 AND SHOP SPACES ARE EXCLUDED U.N.O.
5	PROVIDE SEMI-RIGID JOINT SEALER @ ALL INTERIOR CONCRETE JOINTS WEST OF GRID 4 AND NORTH OF GRID G
6	CONTRACTOR TO PROVIDE SOLID BLOCKING AT ALL CASE WORK, FIXED FURNISHINGS AND EQUIPMENT. COORDINATE WITH ELEVATIONS, SECTIONS AND FURNITURE AND FIXTURE SHEETS AND SPECIFICATIONS. SEE SHEET AE901 FOR TYPICAL DETAILS

KEYNOTE LEGEND

10.1	SEMI-RECESSED FIRE EXTINGUISHER CABINET



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project:
TOOELE APPLIED TECHNOLOGY COLLEGE - NEW BUILDING

88 South Tooele Blvd
Tooele, UT 84074

DFCM PROJECT #11064280

project#: 11.0420
date: 1/20/2012

revisions :

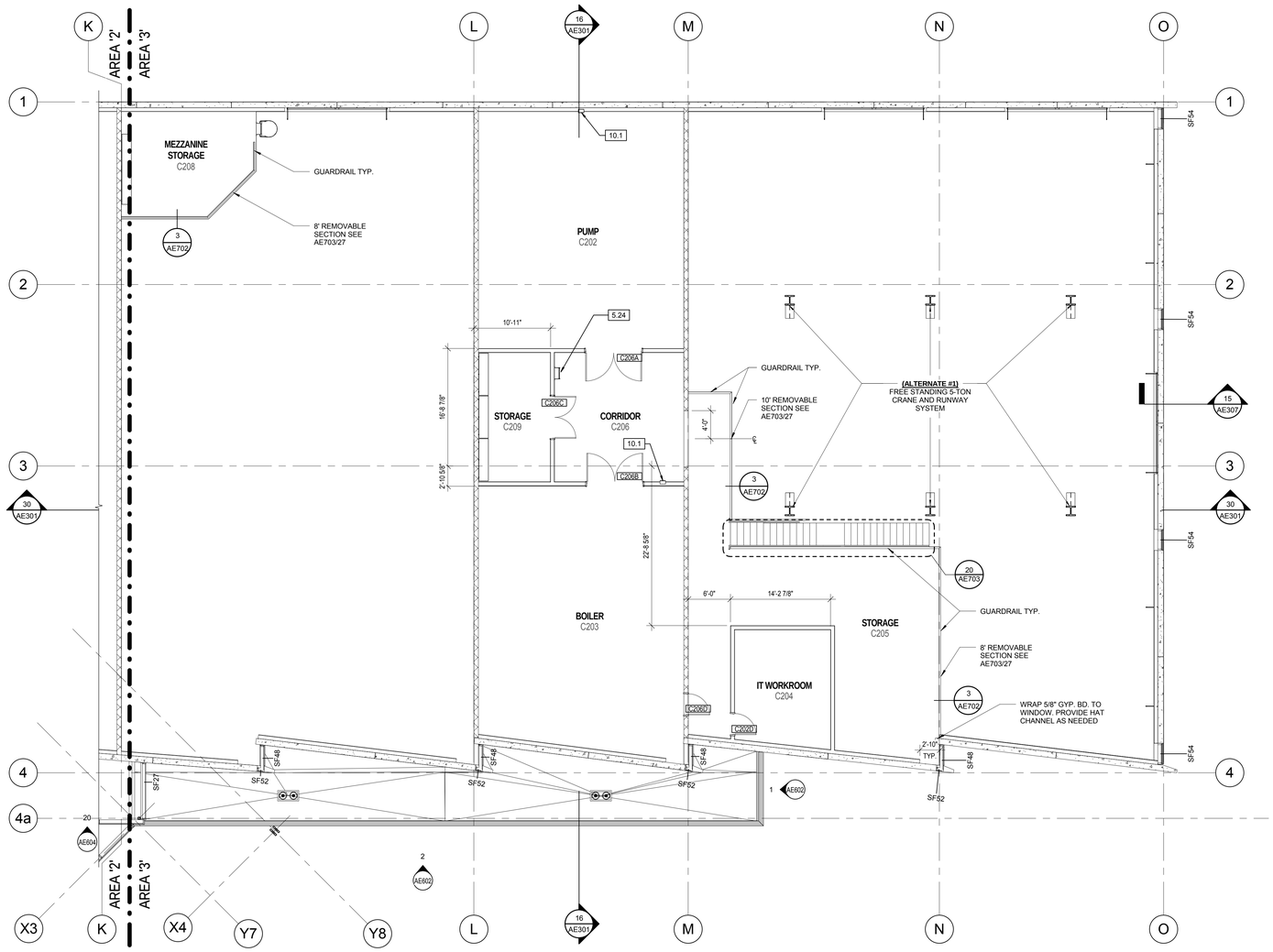
Lvl 2 Floor Plan Area '2'

sheet:

AE122

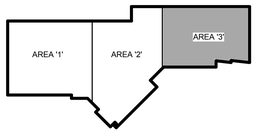
100% Construction Documents

ROOM SCHEDULE LEVEL 2	
Number	Name
A200	CORRIDOR
A201	BT LAB
A202	TESTING
A203	BT OFFICE
A204	USU CLASSROOM
A205	USU CLASSROOM
A206	IT OFFICE
A207	IT CLASSROOM
A208	IT TESTING
A209	IT LAB
A210	SERVER / IT STORAGE
A211	IT ADMIN
A212	IT ASSISTANT
B200	CORRIDOR
B201	DIRECTOR
B202	CURRICULUM DEVELOPER
B203	ASSISTANT
B204	VP INSTRUCTION OFFICE
B205	DIRECTOR
B206	CUSTOM
B207	USU OFFICE
B208	USU OFFICE
B209	DIRECTOR OFFICE / FINANCE
B210	HUMAN RESOURCES
B211	EXECUTIVE CONFERENCE ROOM
B212	PRESIDENT
B213	PRESIDENT ASSISTANT
B214	MARKETING / OFFICE
B215	STORAGE RECORDS
B216	OPEN OFFICE 2-3 PPL
B217	ELECTRICAL
B218	PRINT / STOR.
B219	JAN.
B220	STOR.
B221	MEN
B222	WOMEN
B223	RECEPTION / WAITING
B224	BOARDROOM
B225	KITCHEN
B226	WORKROOM
B227	FACULTY/ BREAK
B228	TOILET
B229	LOCKER/SHOWER
B230	TOILET
B231	LOCKER/SHOWER
B232	EXERCISE
B233	WELLNESS
C201	CDL CLASSROOM
C202	PUMP
C203	BOILER
C204	IT WORKROOM
C205	STORAGE
C206	CORRIDOR
C208	MEZZANINE STORAGE
C209	STORAGE



1 Level 2 Floor Plan Area "3"
1/8" = 1'-0"

north



GENERAL NOTES

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KEYNOTE LEGEND

5.24	METAL ROOF LADDER WITH CAGE
10.1	SEMI-RECESSED FIRE EXTINGUISHER CABINET

LICENSED ARCHITECT
6710870
JOSEPH FLINT SMITH
STATE OF UTAH
01.20.12

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project:
TOOELE APPLIED TECHNOLOGY COLLEGE - NEW BUILDING

88 South Tooele Blvd
Tooele, UT 84074

DFCM PROJECT #11064280

project#: 11.0420
date: 1/20/2012

revisions :

Lvl 2 Floor Plan Area '3'

sheet:
AE123

100% Construction Documents

ROOM SCHEDULE LEVEL 2	
Number	Name
A200	CORRIDOR
A201	BT LAB
A202	TESTING
A203	BT OFFICE
A204	USU CLASSROOM
A205	USU CLASSROOM
A206	IT OFFICE
A207	IT CLASSROOM
A208	IT TESTING
A209	IT LAB
A210	SERVER / IT STORAGE
A211	IT ADMIN
A212	IT ASSISTANT
B200	CORRIDOR
B201	DIRECTOR
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B203	ASSISTANT
B204	VP INSTRUCTION OFFICE
B205	DIRECTOR
B206	CUSTOM
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B208	USU OFFICE
B209	DIRECTOR OFFICE / FINANCE
B210	HUMAN RESOURCES
B211	EXECUTIVE CONFERENCE ROOM
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B215	STORAGE RECORDS
B216	OPEN OFFICE 2-3 PPL
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B221	MEN
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C203	BOILER
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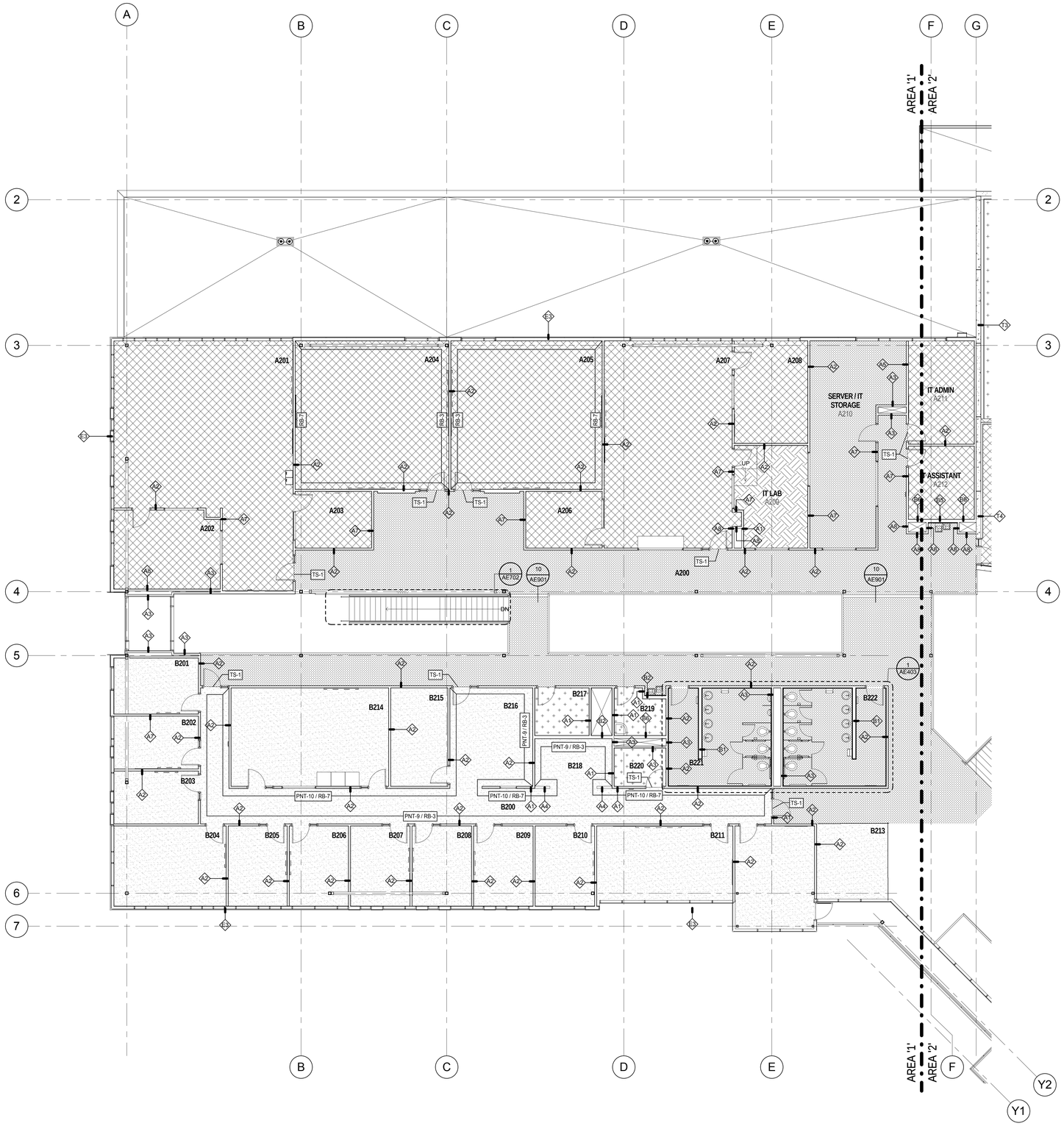
C208	MEZZANINE STORAGE
C209	STORAGE



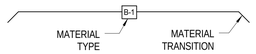
1 Level 2 Finish Plan Area '1'
1/8" = 1'-0"

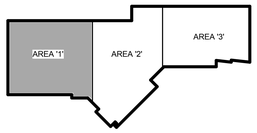
GENERAL FINISH FLOOR PLAN NOTES	
1	SEE FLOOR PLANS FOR INTERIOR ELEVATIONS
2	PROVIDE CEMENT BOARD AT ALL TILE LOCATIONS
3	ALL METAL STUD WALLS TO DECK ABOVE, SEE SHEET AE621 FOR WALL TYPES
4	PROVIDE DEFLECTION TRACKS @ ALL STUD WALLS, SEE DETAIL 4/AE804
5	ALL MATERIALS TO BE INSTALLED PER SPECIFIC MANUFACTURER'S INSTALLATION RECOMMENDATIONS
6	ALL EXPOSED METAL TO BE INSTALLED PER SPECIFIC MANUFACTURER'S INSTALLATION RECOMMENDATIONS
7	FLOORING MATERIAL TRANSITIONS TO OCCUR AT CENTER LINE OF DOOR THRESHOLDS, U.N.O.
8	PREPARE FLOORS/WALLS TO RECIEVE FINISH MATERIAL. REFER TO MANUFACTURERS RECOMMENDATIONS FOR SURFACE PREPERATION. NOTIFY ARCHITECT IF CONDITIONS ARE INADEQUATE FOR REQURED INSTALLATION.
9	REFER TO ROOM FINISH SCHEDULE AND MATERIAL LEGEND IN SHEET AE611 FOR MORE INFORMATION
10	SEE AE621 FOR WALL TYPES
11	CONTRACTOR TO PROVIDE SOLID BLOCKING AT ALL CASE WORK, FIXED FURNISHINGS AND EQUIPMENT. COORDINATE WITH ELEVATIONS, SECTIONS AND FURNITURE AND FIXTURE SHEETS AND SPECIFICATIONS. SEE SHEET AE901 FOR TYP. DETAILS
12	PROVIDE CEMENTITIOUS BOARD IN LIEU OF GYPSUM BOARD (BEHIND TILE), IN ROOMS A115, B228, B229, B230 AND B231.
13	WRAP GYP. BD. AT EXPOSED FURRING ENDS U.N.O.

FLOOR FINISH LEGEND

CODE	MATERIAL
CPT-1	CARPET TILE
CPT-2	CARPET TILE
CPT-3	CARPET TILE
CPT-4	CARPET TILE
CPT-5	CARPET TILE
CPT-6	WALK OFF MAT
PSC-1	POLISHED SEALED CONCRETE
SC-1	SEALED CONCRETE
T-2	PORCELAIN TILE
T-8	PORCELAIN TILE
T-10	MOSAIC TILE (2 1/2")
SV-1	SHEET VINYL
SV-2	SHEET VINYL
SCF-1	STATIC CONTROL FLOORING
VF-1	VINYL PLANK
WF-1	WOOD FLOORING
TS	TRANSITION STRIP

WALL / BASE FINISH LEGEND:





LICENSED ARCHITECT 6710870 JOSEPH FLINT SMITH STATE OF UTAH
01.20.12

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project:
TOOELE APPLIED TECHNOLOGY COLLEGE - NEW BUILDING

88 South Tooele Blvd
Tooele, UT 84074

DFCM PROJECT #11064280

project#: 11.0420
date: 1/20/2012

revisions :

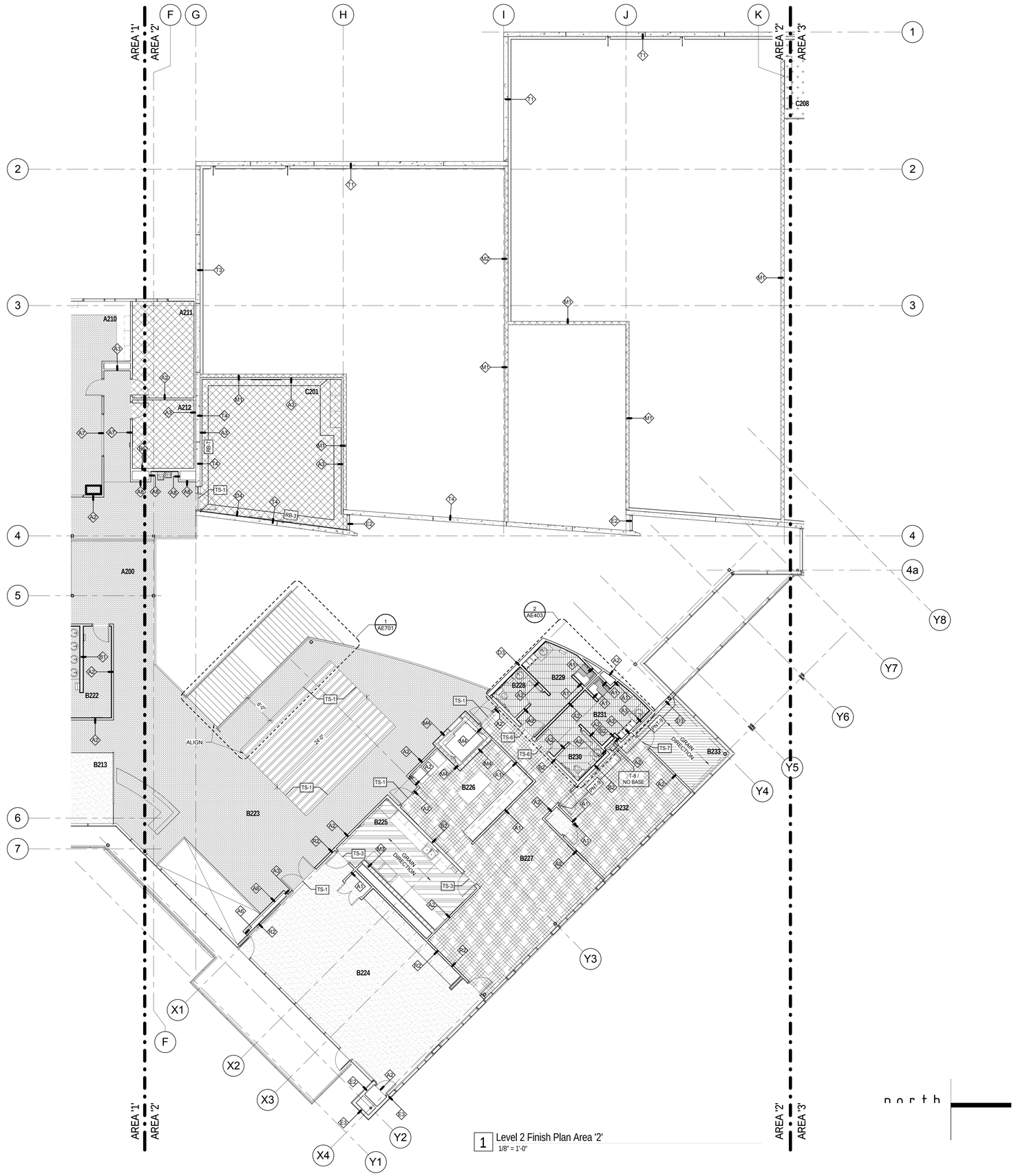
Lvl 2 Wall Type/Finish Plan Area '1'

sheet:

AE131

100% Construction Documents

ROOM SCHEDULE LEVEL 2	
Number	Name
A200	CORRIDOR
A201	BT LAB
A202	TESTING
A203	BT OFFICE
A204	USU CLASSROOM
A205	USU CLASSROOM
A206	IT OFFICE
A207	IT CLASSROOM
A208	IT TESTING
A209	IT LAB
A210	SERVER / IT STORAGE
A211	IT ADMIN
A212	IT ASSISTANT
B200	CORRIDOR
B201	DIRECTOR
B202	CURRICULUM DEVELOPER
B203	ASSISTANT
B204	VP INSTRUCTION OFFICE
B205	DIRECTOR
B206	CUSTOM
B207	USU OFFICE
B208	USU OFFICE
B209	DIRECTOR OFFICE / FINANCE
B210	HUMAN RESOURCES
B211	EXECUTIVE CONFERENCE ROOM
B212	PRESIDENT
B213	PRESIDENT ASSISTANT
B214	MARKETING / OFFICE
B215	STORAGE RECORDS
B216	OPEN OFFICE 2-3 PPL
B217	ELECTRICAL
B218	PRINT / STOR.
B219	JAN.
B220	STOR.
B221	MEN
B222	WOMEN
B223	RECEPTION / WAITING
B224	BOARDROOM
B225	KITCHEN
B226	WORKROOM
B227	FACULTY/ BREAK
B228	TOILET
B229	LOCKER/SHOWER
B230	TOILET
B231	LOCKER/SHOWER
B232	EXERCISE
B233	WELLNESS
C201	CDL CLASSROOM
C202	PUMP
C203	BOILER
C204	IT WORKROOM
C205	STORAGE
C206	CORRIDOR
C208	MEZZANINE STORAGE
C209	STORAGE



1 Level 2 Finish Plan Area '2'
1/8" = 1'-0"

GENERAL FINISH FLOOR PLAN NOTES	
1	SEE FLOOR PLANS FOR INTERIOR ELEVATIONS
2	PROVIDE CEMENT BOARD AT ALL TILE LOCATIONS
3	ALL METAL STUD WALLS TO DECK ABOVE, SEE SHEET AE621 FOR WALL TYPES
4	PROVIDE DEFLECTION TRACKS @ ALL STUD WALLS, SEE DETAIL 4/AE804
5	ALL MATERIALS TO BE INSTALLED PER SPECIFIC MANUFACTURER'S INSTALLATION RECOMMENDATIONS
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FLOOR FINISH LEGEND

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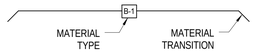
CPT-1	CARPET TILE
CPT-2	CARPET TILE
CPT-3	CARPET TILE
CPT-4	CARPET TILE
CPT-5	CARPET TILE
CPT-6	WALK OFF MAT
PSC-1	POLISHED SEALED CONCRETE
SC-1	SEALED CONCRETE
T-2	PORCELAIN TILE
T-8	PORCELAIN TILE
T-10	MOSAIC TILE (2 1/2")
SV-1	SHEET VINYL
SV-2	SHEET VINYL
SCF-1	STATIC CONTROL FLOORING
VF-1	VINYL PLANK
WF-1	WOOD FLOORING
TS	TRANSITION STRIP

WALL / BASE FINISH LEGEND:



LICENSED ARCHITECT 6710870 JOSEPH FLINT SMITH STATE OF UTAH
01.20.12

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DFCM PROJECT #11064280

project#: 11.0420
date: 1/20/2012

revisions :

Lvl 2 Wall Type/Finish Plan Area '2'

sheet:

AE132

100% Construction Documents

ROOM SCHEDULE LEVEL 2	
Number	Name
A200	CORRIDOR
A201	BT LAB
A202	TESTING
A203	BT OFFICE
A204	USU CLASSROOM
A205	USU CLASSROOM
A206	IT OFFICE
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C203	BOILER
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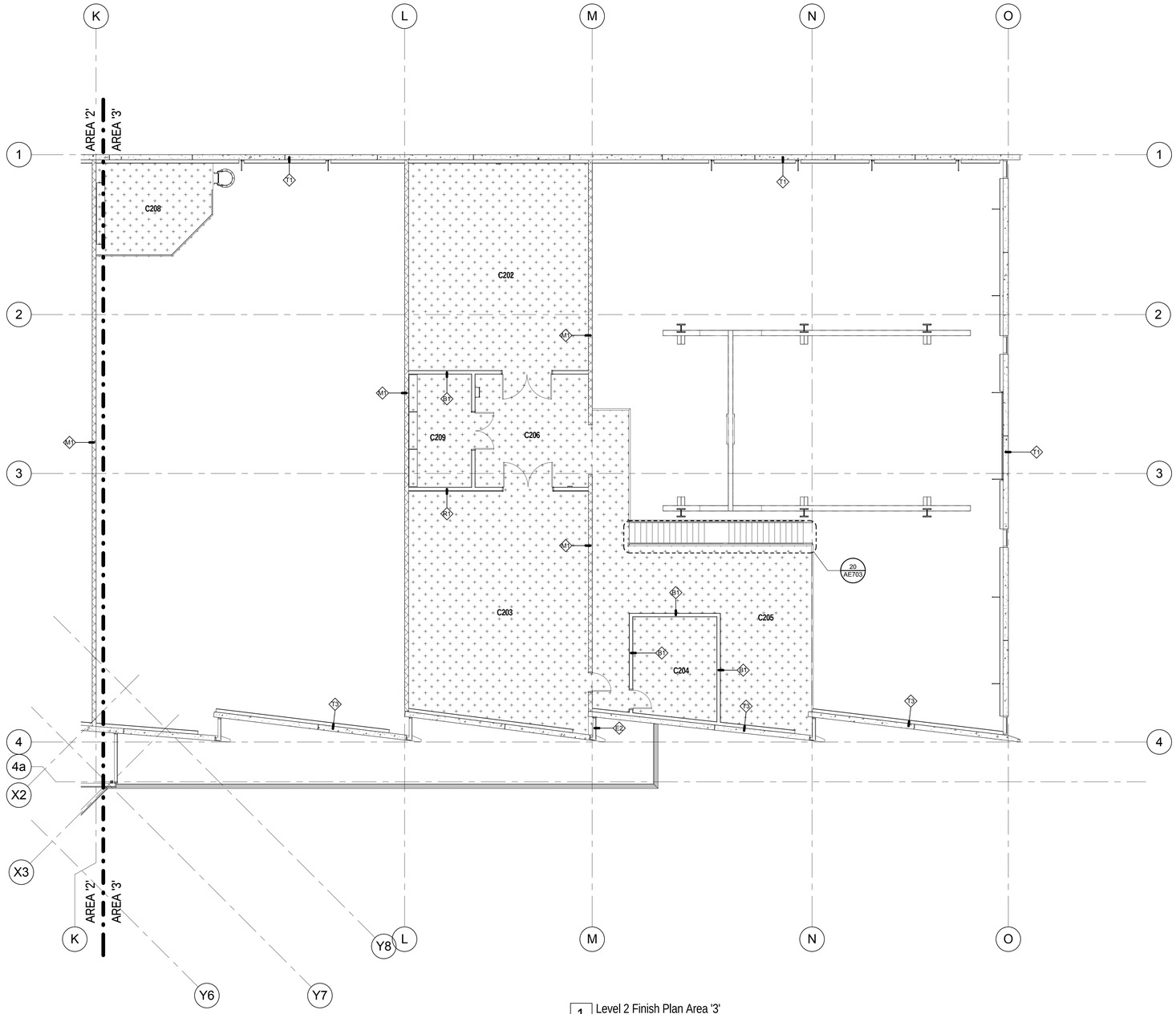
C206	CORRIDOR
C208	MEZZANINE STORAGE
C209	STORAGE



1 Level 2 Finish Plan Area '3'
1/8" = 1'-0"

north

GENERAL FINISH FLOOR PLAN NOTES	
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FLOOR FINISH LEGEND

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CPT-2	CARPET TILE
CPT-3	CARPET TILE
CPT-4	CARPET TILE
CPT-5	CARPET TILE
CPT-6	WALK OFF MAT
PSC-1	POLISHED SEALED CONCRETE
SC-1	SEALED CONCRETE
T-2	PORCELAIN TILE
T-8	PORCELAIN TILE
T-10	MOSAIC TILE (2 1/2")
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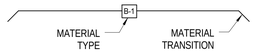
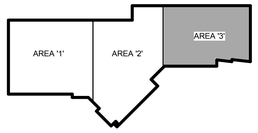
SCF-1	STATIC CONTROL FLOORING
VF-1	VINYL PLANK
WF-1	WOOD FLOORING
TS	TRANSITION STRIP

WALL / BASE FINISH LEGEND:





LICENSED ARCHITECT
6710870
JOSEPH FLINT SMITH
STATE OF UTAH
01.20.12

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METHOD STUDIO INC.
925 south west temple
salt lake city, utah 84101
phone:(801) 532-4422

consultants:

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project:
TOOELE APPLIED TECHNOLOGY COLLEGE - NEW BUILDING

88 South Tooele Blvd
Tooele, UT 84074

DFCM PROJECT #11064280

project#: 11.0420
date: 1/20/2012

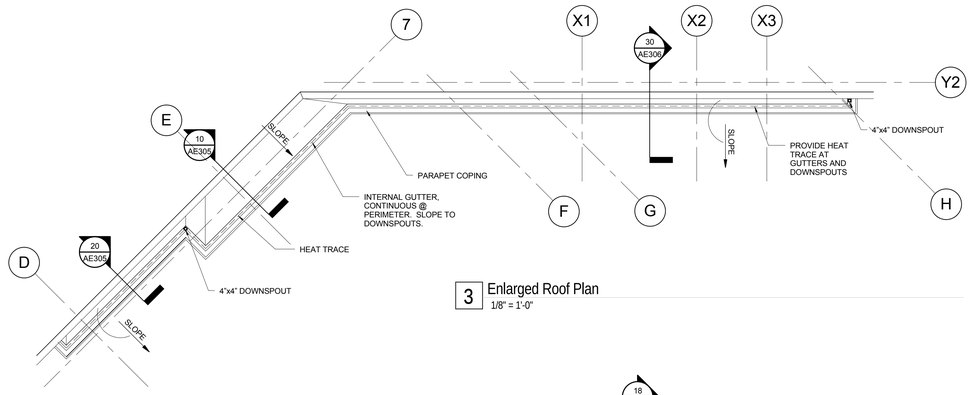
revisions :

Lvl 2 Wall Type/Finish Plan Area '3'

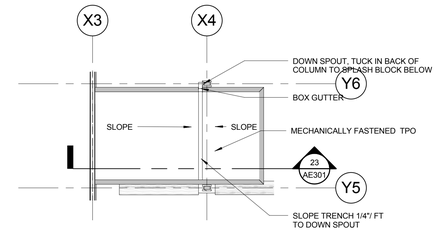
sheet:

AE133

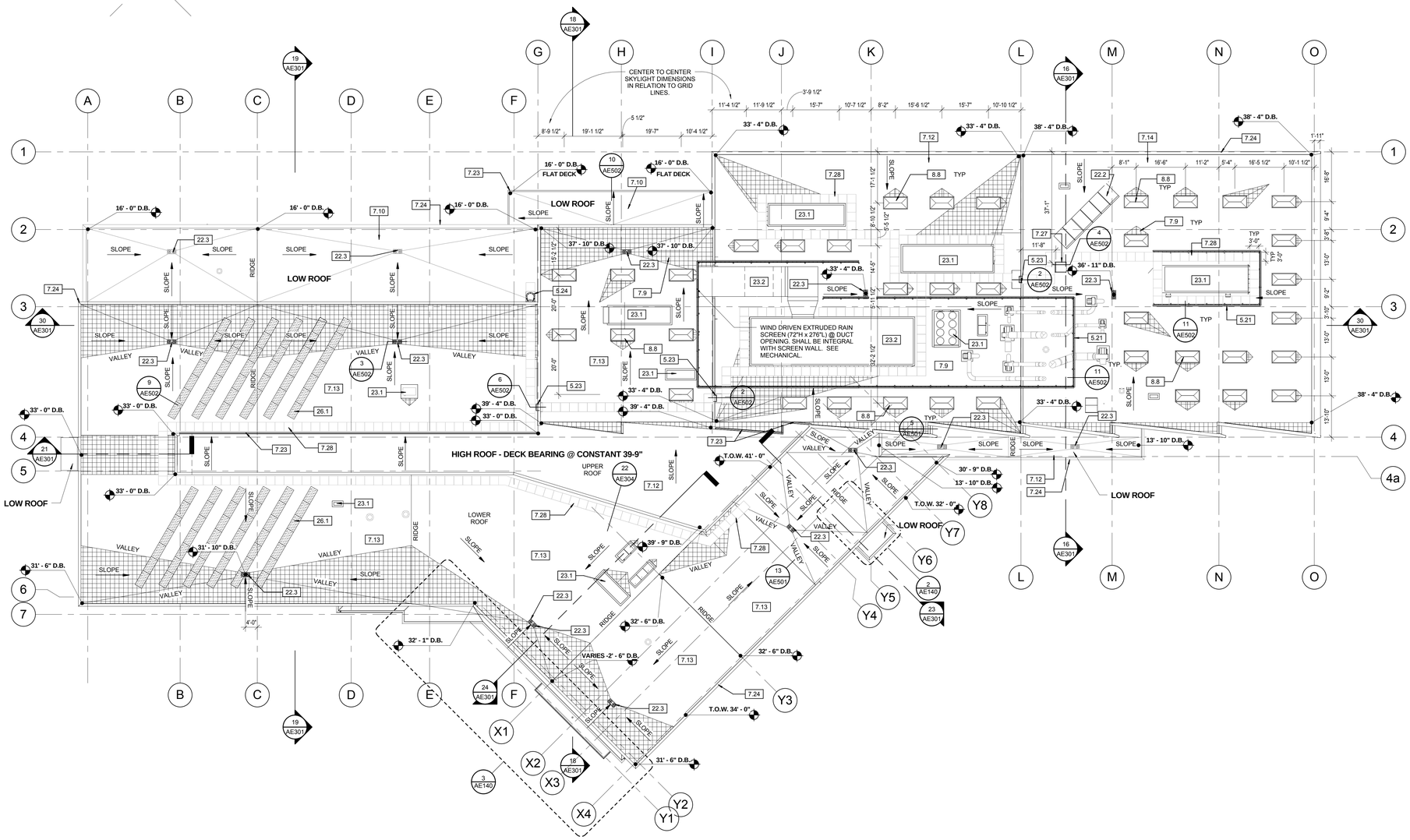
100% Construction Documents



3 Enlarged Roof Plan
1/8" = 1'-0"



2 Roof Enlarged Plan
1/8" = 1'-0"



1 Roof Plan
1/16" = 1'-0"

north

KEYNOTE LEGEND

5.21	ALUMINUM MECHANICAL SCREEN. SEE SPECIFICATIONS.
5.23	METAL ROOF LADDER
5.24	METAL ROOF LADDER WITH CAGE
7.9	TPO-SINGLE PLY MEMBRANE ON RIGID INSULATION CRICKET, MIN OF 1/4" PER FOOT AT VALLEY.
7.10	MECHANICALLY FASTENED TPO-SINGLE PLY MEMBRANE ON 2" MINIMUM RIGID INSULATION, 1/4" SLOPE MINIMUM TO DRAINS.
7.12	MECHANICALLY FASTENED TPO-SINGLE PLY MEMBRANE ON 5" MINIMUM RIGID INSULATION. 1/4" SLOPE MINIMUM TO DRAINS
7.13	MECHANICALLY FASTENED TPO-SINGLE PLY MEMBRANE ON 5" RIGID INSULATION, 1/4" SLOPE MINIMUM TO DRAINS.
7.14	MECHANICALLY FASTENED TPO-SINGLE PLY MEMBRANE ON 7" RIGID INSULATION, 1/4" SLOPE MINIMUM TO DRAINS.
7.23	ALUMINUM GUTTER
7.24	PARAPET CAP FLASHING
7.27	3-0" X 3-0" ROOF HATCH
7.28	3'-0" X 3'-0" FLEXIBLE ROOF WALKWAY PAD. SEE SPECIFICATIONS
8.8	4'-0" X 8'-0" UNIT SKYLIGHT
22.2	SOLAR PANEL. SEE MECHANICAL
22.3	ROOF DRAIN LOCATION. SEE PLUMBING DRAWINGS FOR PIPING. FOR MORE INFORMATION SEE ARCHITECTURAL DETAILS.
23.1	ROOF TOP UNIT. SEE MECHANICAL
23.2	AIR HANDLER. SEE MECHANICAL
26.1	PHOTOVOLTAIC ARRAY ON STANDS, SEE ELECTRICAL

ROOF LEGEND

CRICKET TO BE FORMED WITH SPECIFIED RIGID INSULATION AND TO SLOPE 1/4" PER FOOT IN VALLEY TOWARDS ROOF DRAIN.

GENERAL ROOF PLAN GENERAL NOTES

1	CRICKET AT ALL MECHANICAL ITEMS, SKYLIGHTS, ROOF HATCHES. 1/4" PER FOOT BACKSLOPE MINUMUM.
2	SEE DETAILS 1/AE502 AND 3/AE502 FOR TYPICAL PIPE FLASHING.
3	SEE BUILDING AND WALL SECTIONS FOR ADDITIONAL ROOF DETAILS.
4	ALL GUTTER AND DOWNSPOUT SYSTEMS TO BE FACTORY PAINTED TO MATCH ANNODIZED ALUMINUM STOREFRONT FINISH
5	PROVIDE DOWNSPOUTS FORM HIGH ROOF GUTTERS TO ROOF BELOW, SHEET DRAIN.

LICENSED ARCHITECT 6710870 JOSEPH FLINT SMITH STATE OF UTAH
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88 South Tooele Blvd
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DFCM PROJECT #11064280

project#: 11.0420
date: 1/20/2012

revisions :

Roof Plan

sheet:

AE140

100% Construction Documents

ROOM SCHEDULE LEVEL _1	
Number	Name
A100	CORRIDOR
A101	MEDICAL ASSISTING CLASSROOM
A102	TESTING
A103	STORAGE
A104	MEDICAL ASSISTING LAB
A104A	LAB RECEPTION
A105	MA Office
A106	SURGERY
A107	EXAM
A108	XRAY
A109	X-RAY CONTROL
A110	OFFICE
A111	OFFICE
A112	OFFICE
A113	TOILET
A114	LAUNDRY
A115	INSTRUCTION TOILET
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A117	CNA STORAGE
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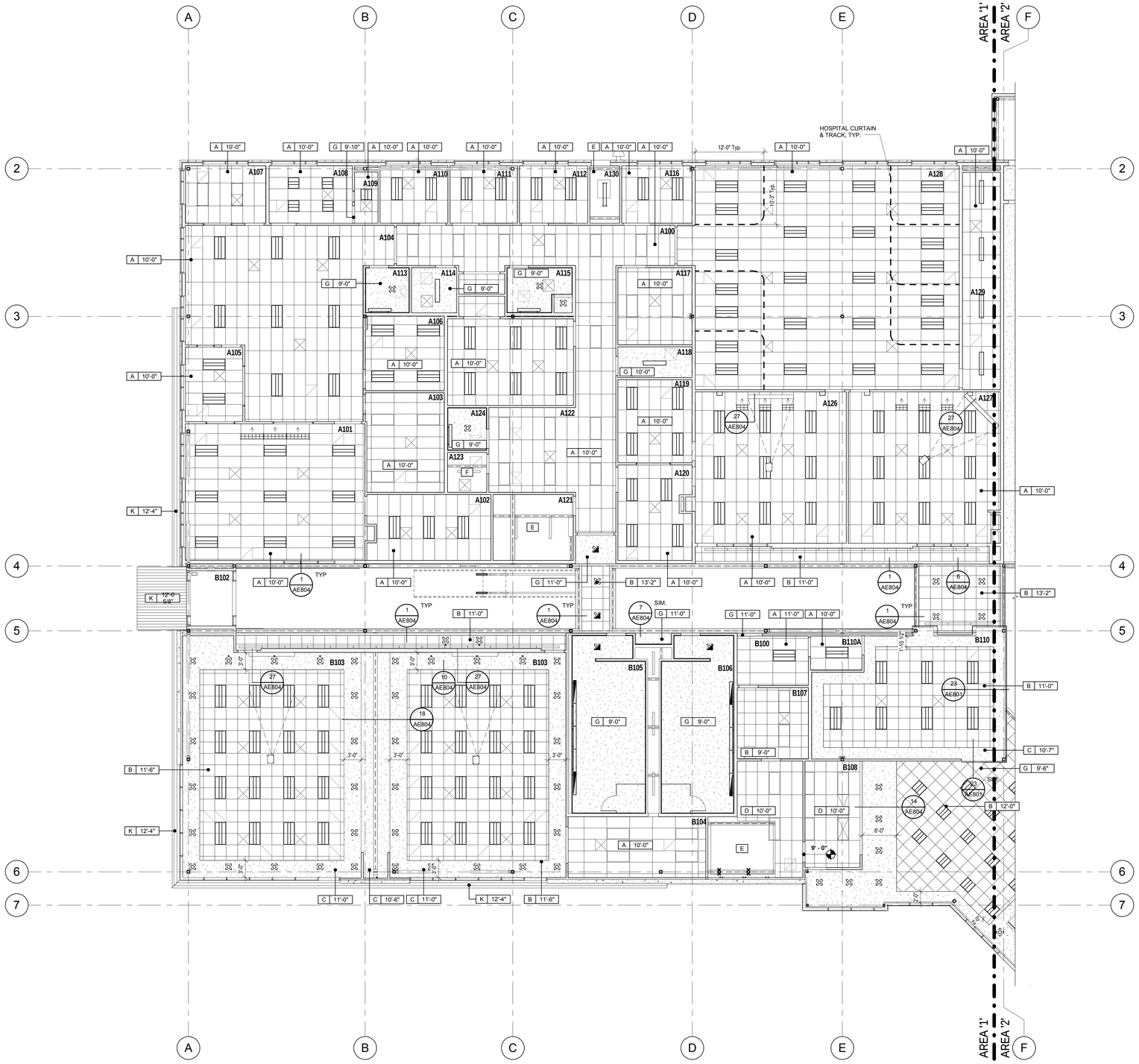

1 Level 1 RCP Area '1'
1/8" = 1'-0"

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5	SEE SHEET AE806 FOR TYP. FIXTURE SUPPORT, CLIP ANGLE & SEISMIC BRACING DETAILS.
6	MAKE FACTORY EDGE WHERE TILE IS CUT TYP. FOR ALL LAY IN ACOUSTICAL TILE WITH TEGULAR EDGE

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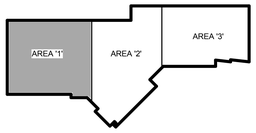
TYPE B	2' x 2' LAY-IN ACOUSTICAL TILE IN SUSPENDED GRID (FINISH ACT-1)
TYPE C	5/8" GYPSUM BOARD SOFFIT (PAINTED) PROVIDE MTL. STUD WALL FROM STRUCTURE ABOVE OR ADJACENT WALLS, DIAGONAL BRACING AS NECESSARY
TYPE D	2' x 4' FRP CEILING IN SUSPENDED GRID (FINISH ACT-4)
TYPE E	EXPOSED STRUCTURE
TYPE F	EXPOSED STRUCTURE (PAINTED)
TYPE G	5/8" GYPSUM BOARD (PAINTED) 0N METAL SUSPENSION SYSTEM
TYPE H	WOOD VENEER ON GYP. BD.
TYPE J	METAL SOFFIT
TYPE K	EXTERIOR T & G
TYPE L	30"X30" LAY-IN ACOUSTICAL TILE IN SUSPENDED GRID (FINISH ACT-3)



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project:
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88 South Tooele Blvd
Tooele, UT 84074

DFCM PROJECT #11064280

project#: 11.0420
date: 1/20/2012

revisions :

Lvl 1 Reflected Ceiling Plan 1

sheet:

AE151

100% Construction Documents

ROOM SCHEDULE LEVEL _1	
Number	Name
A100	CORRIDOR
A101	MEDICAL ASSISTING CLASSROOM
A102	TESTING
A103	STORAGE
A104	MEDICAL ASSISTING LAB
A104A	LAB RECEPTION
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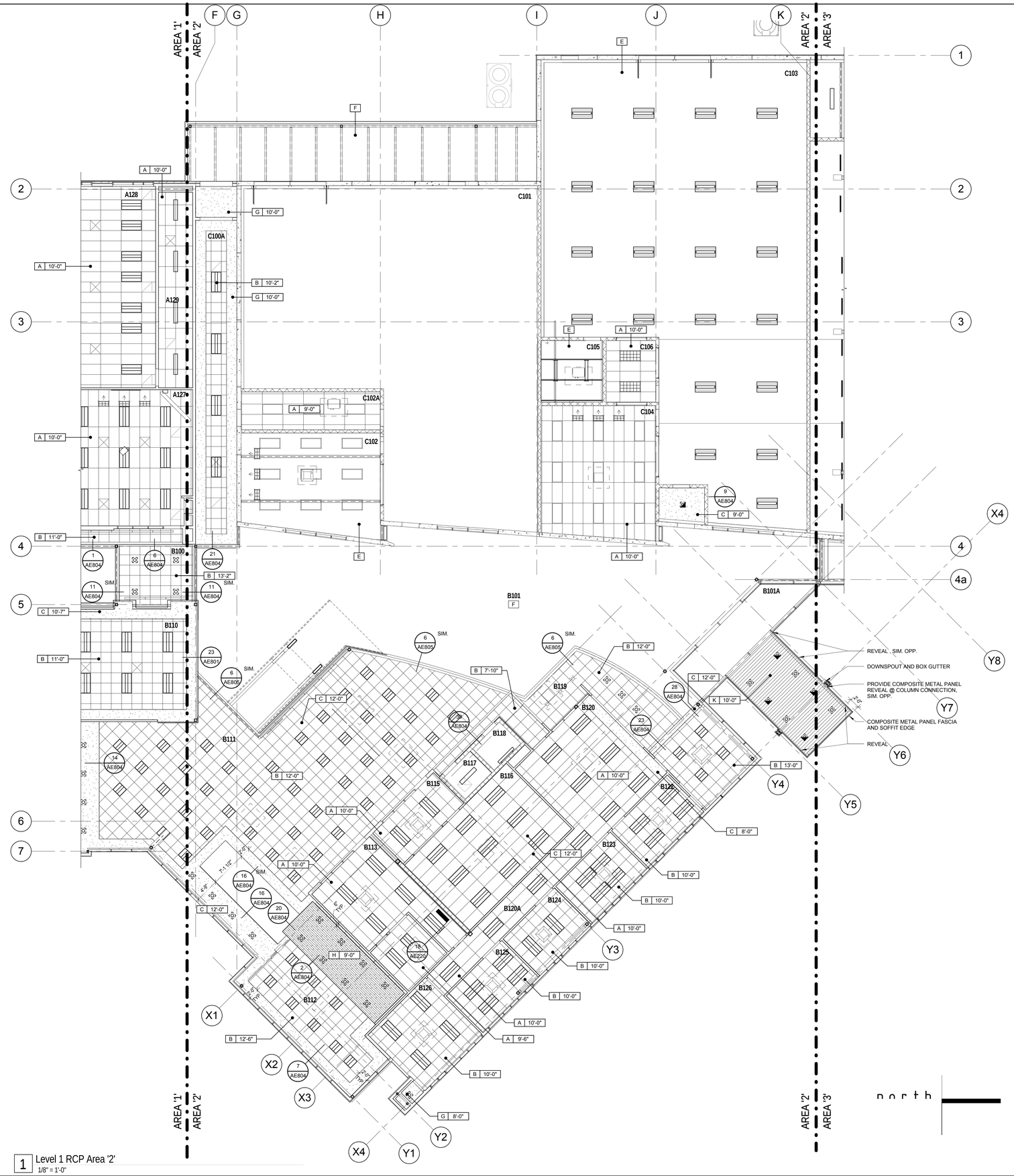

1 Level 1 RCP Area '2'
1/8" = 1'-0"

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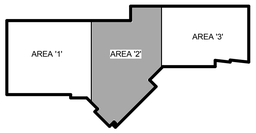

LICENSED ARCHITECT 6710870 JOSEPH FLINT SMITH STATE OF UTAH
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DFCM PROJECT #11064280

project#: 11.0420
date: 1/20/2012

revisions :

Lvl 1 Reflected Ceiling Plan 2

sheet:

AE152

100% Construction Documents

ROOM SCHEDULE LEVEL _1	
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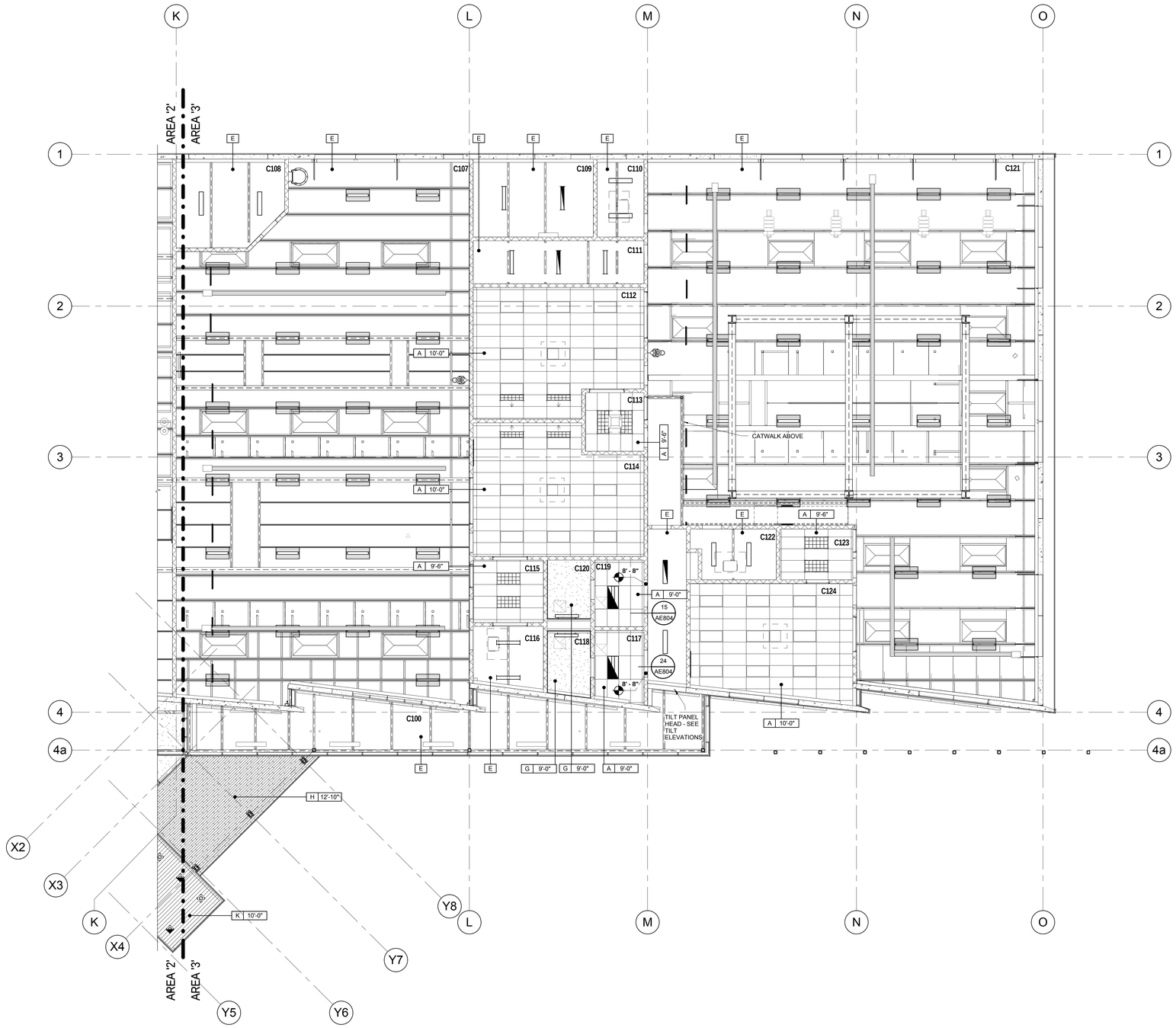

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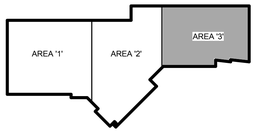

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date: 1/20/2012

revisions :

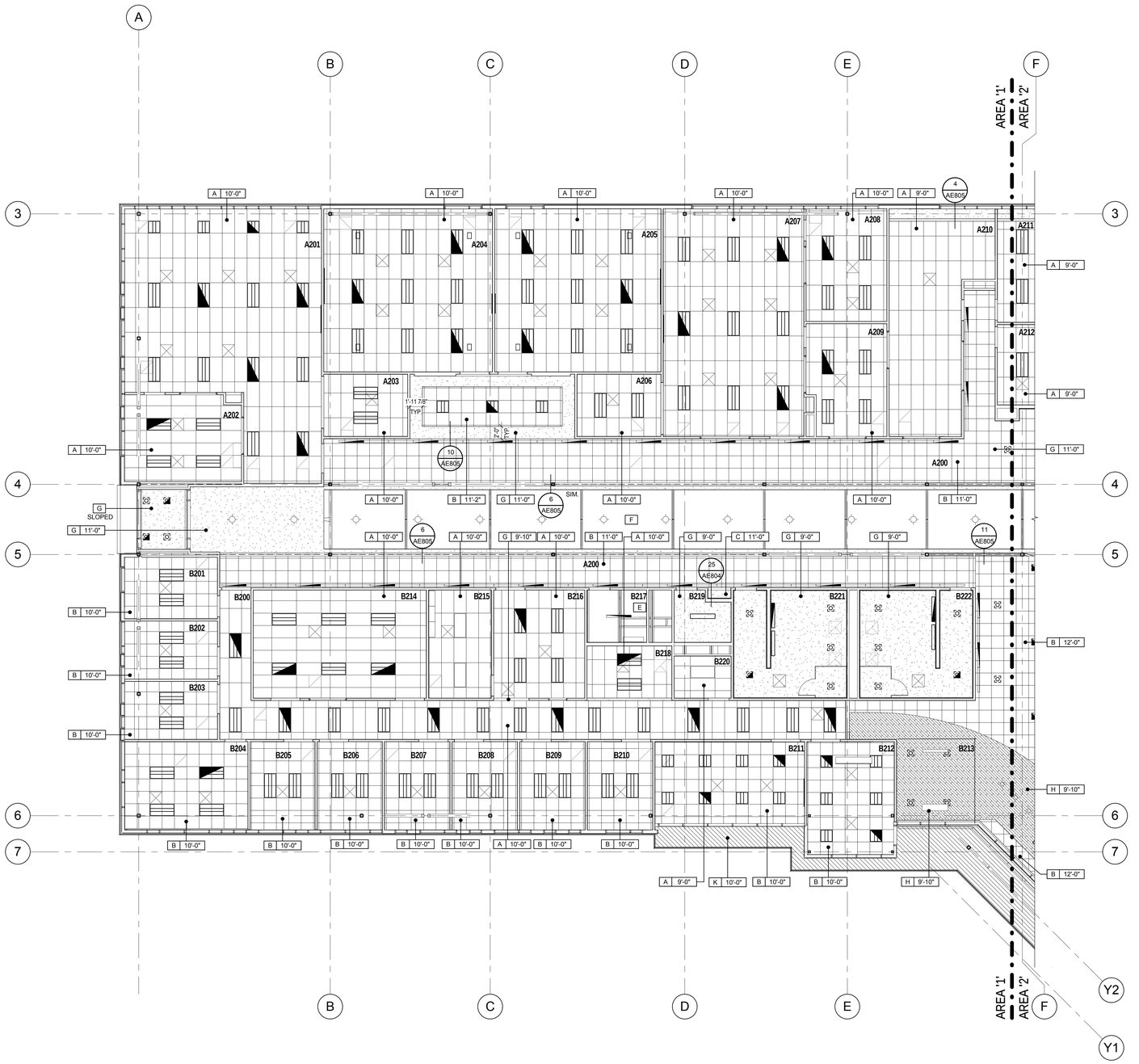
Lvl 1 Reflected Ceiling Plan 3

sheet:

AE153

100% Construction Documents

ROOM SCHEDULE LEVEL 2	
Number	Name
A200	CORRIDOR
A201	BT LAB
A202	TESTING
A203	BT OFFICE
A204	USU CLASSROOM
A205	USU CLASSROOM
A206	IT OFFICE
A207	IT CLASSROOM
A208	IT TESTING
A209	IT LAB
A210	SERVER / IT STORAGE
A211	IT ADMIN
A212	IT ASSISTANT
B200	CORRIDOR
B201	DIRECTOR
B202	CURRICULUM DEVELOPER
B203	ASSISTANT
B204	VP INSTRUCTION OFFICE
B205	DIRECTOR
B206	CUSTOM
B207	USU OFFICE
B208	USU OFFICE
B209	DIRECTOR OFFICE / FINANCE
B210	HUMAN RESOURCES
B211	EXECUTIVE CONFERENCE ROOM
B212	PRESIDENT
B213	PRESIDENT ASSISTANT
B214	MARKETING / OFFICE
B215	STORAGE RECORDS
B216	OPEN OFFICE 2-3 PPL
B217	ELECTRICAL
B218	PRINT / STOR.
B219	JAN.
B220	STOR.
B221	MEN
B222	WOMEN
B223	RECEPTION / WAITING
B224	BOARDROOM
B225	KITCHEN
B226	WORKROOM
B227	FACULTY/ BREAK
B228	TOILET
B229	LOCKER/SHOWER
B230	TOILET
B231	LOCKER/SHOWER
B232	EXERCISE
B233	WELLNESS
C201	CDL CLASSROOM
C202	PUMP
C203	BOILER
C204	IT WORKROOM
C205	STORAGE
C206	CORRIDOR
C208	MEZZANINE STORAGE
C209	STORAGE



1 Level 2 RCP Area '1'
1/8" = 1'-0"

GENERAL CEILING PLAN NOTES -	
1	CEILING GRID SHOWN IS ONLY A GRAPHIC REPRESENTATION OF CEILING. CONTRACTOR SHALL VERIFY ACTUAL GRID LAYOUT/LOCATION IN THE FIELD.
2	VERIFY ALL LIGHT, SMOKE DTECTORS AND EXIT SIGN LOCATIONS WITH ELECTRICAL DRAWINGS.
3	VERIFY ALL MECHANICAL DUCT, GRILL, DIFFUSER AND VENT LOCATIONS WITH MECHANICAL DRAWINGS.
4	COORDINATE FIXTURE LAYOUT AND QUANTITY WITH ELECTRICAL PLANS. REFER TO MECHANICAL DRAWINGS FOR DIFFUSER LOCATION.
5	SEE SHEET AE806 FOR TYP. FIXTURE SUPPORT, CLIP ANGLE & SEISMIC BRACING DETAILS.
6	MAKE FACTORY EDGE WHERE TILE IS CUT TYP. FOR ALL LAY IN ACOUSTICAL TILE WITH TEGULAR EDGE

RCP PLAN LEGEND	
TYPE A	2' x 4' LAY-IN ACOUSTICAL TILE IN SUSPENDED GRID (FINISH ACT-2)
TYPE B	2' x 2' LAY-IN ACOUSTICAL TILE IN SUSPENDED GRID (FINISH ACT-1)
TYPE C	5/8" GYPSUM BOARD SOFFIT (PAINTED) PROVIDE MTL. STUD WALL FROM STRUCTURE ABOVE OR ADJACENT WALLS, DIAGONAL BRACING AS NECESSARY
TYPE D	2' x 4' FRP CEILING IN SUSPENDED GRID (FINISH ACT-4)
TYPE E	EXPOSED STRUCTURE
TYPE F	EXPOSED STRUCTURE (PAINTED)
TYPE G	5/8" GYPSUM BOARD (PAINTED) 0N METAL SUSPENSION SYSTEM
TYPE H	WOOD VENEER ON GYP. BD.
TYPE J	METAL SOFFIT
TYPE K	EXTERIOR T & G
TYPE L	30"X30" LAY-IN ACOUSTICAL TILE IN SUSPENDED GRID (FINISH ACT-3)

LICENSED ARCHITECT
6710870
JOSEPH FLINT SMITH
STATE OF UTAH
01.20.12

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METHOD STUDIO INC.
925 south west temple
salt lake city, utah 84101
phone:(801) 532-4422

consultants:

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project:
TOOELE APPLIED TECHNOLOGY COLLEGE - NEW BUILDING

88 South Tooele Blvd
Tooele, UT 84074

DFCM PROJECT #11064280

project#: 11.0420
date: 1/20/2012

revisions :

Lvl 2 Reflected Ceiling Plan 1

sheet:

AE161

100% Construction Documents

ROOM SCHEDULE LEVEL 2	
Number	Name
A200	CORRIDOR
A201	BT LAB
A202	TESTING
A203	BT OFFICE
A204	USU CLASSROOM
A205	USU CLASSROOM
A206	IT OFFICE
A207	IT CLASSROOM
A208	IT TESTING
A209	IT LAB
A210	SERVER / IT STORAGE
A211	IT ADMIN
A212	IT ASSISTANT
B200	CORRIDOR
B201	DIRECTOR
B202	CURRICULUM DEVELOPER
B203	ASSISTANT
B204	VP INSTRUCTION OFFICE
B205	DIRECTOR
B206	CUSTOM
B207	USU OFFICE
B208	USU OFFICE
B209	DIRECTOR OFFICE / FINANCE
B210	HUMAN RESOURCES
B211	EXECUTIVE CONFERENCE ROOM
B212	PRESIDENT
B213	PRESIDENT ASSISTANT
B214	MARKETING / OFFICE
B215	STORAGE RECORDS
B216	OPEN OFFICE 2-3 PPL
B217	ELECTRICAL
B218	PRINT / STOR.
B219	JAN.
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B225	KITCHEN
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B227	FACULTY/ BREAK
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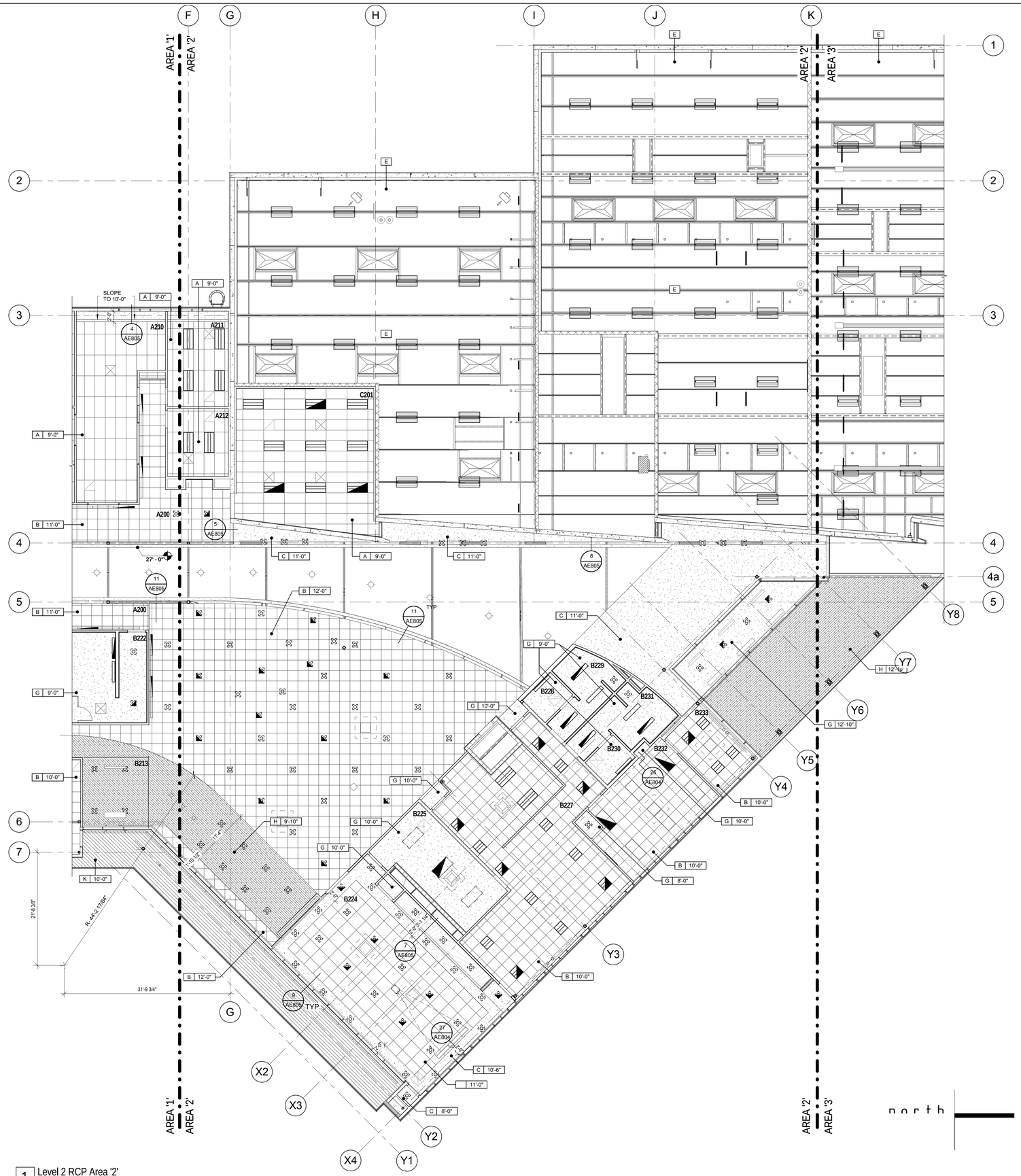

1 Level 2 RCP Area '2'
1/8" = 1'-0" AE201

GENERAL CEILING PLAN NOTES -	
1	CEILING GRID SHOWN IS ONLY A GRAPHIC REPRESENTATION OF CEILING. CONTRACTOR SHALL VERIFY ACTUAL GRID LAYOUT/LOCATION IN THE FIELD.
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RCP PLAN LEGEND	
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LICENSED ARCHITECT
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JOSEPH FLINT SMITH
STATE OF UTAH
01.20.12

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project:
TOOELE APPLIED TECHNOLOGY COLLEGE - NEW BUILDING

88 South Tooele Blvd
Tooele, UT 84074

DFCM PROJECT #11064280

project#: 11.0420
date: 1/20/2012

revisions :

Lvl 2 Reflected Ceiling Plan 2

sheet:

AE162

100% Construction Documents

ROOM SCHEDULE LEVEL 2	
Number	Name
A200	CORRIDOR
A201	BT LAB
A202	TESTING
A203	BT OFFICE
A204	USU CLASSROOM
A205	USU CLASSROOM
A206	IT OFFICE
A207	IT CLASSROOM
A208	IT TESTING
A209	IT LAB
A210	SERVER / IT STORAGE
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A212	IT ASSISTANT
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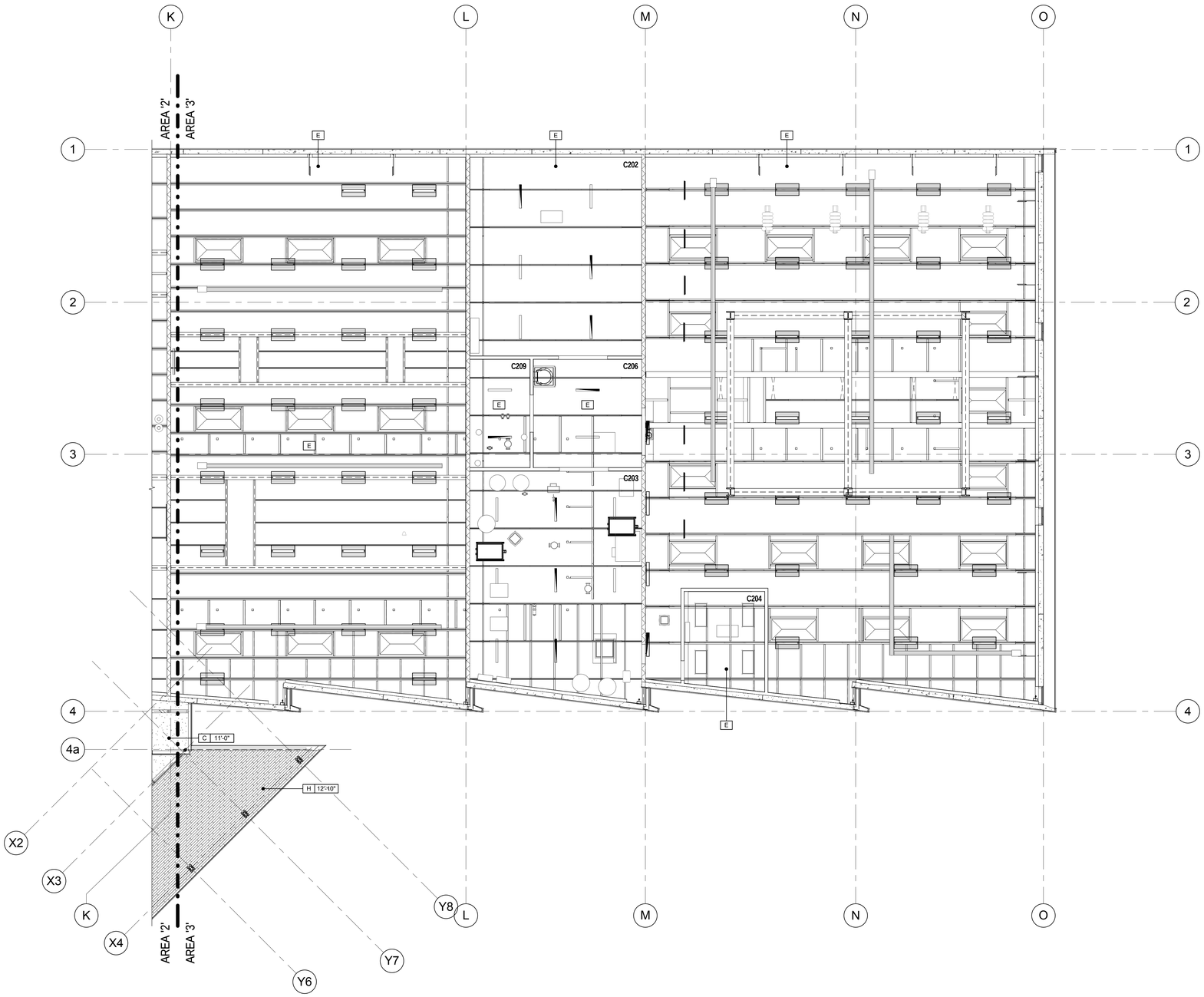

1 Level 2 RCP Area '3'
1/8" = 1'-0"

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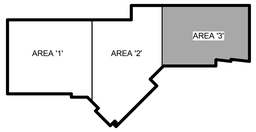

LICENSED ARCHITECT
6710870
JOSEPH FLINT SMITH
STATE OF UTAH
01.20.12

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project:
TOOELE APPLIED TECHNOLOGY COLLEGE - NEW BUILDING

88 South Tooele Blvd
Tooele, UT 84074

DFCM PROJECT #11064280

project#: 11.0420
date: 1/20/2012

revisions :

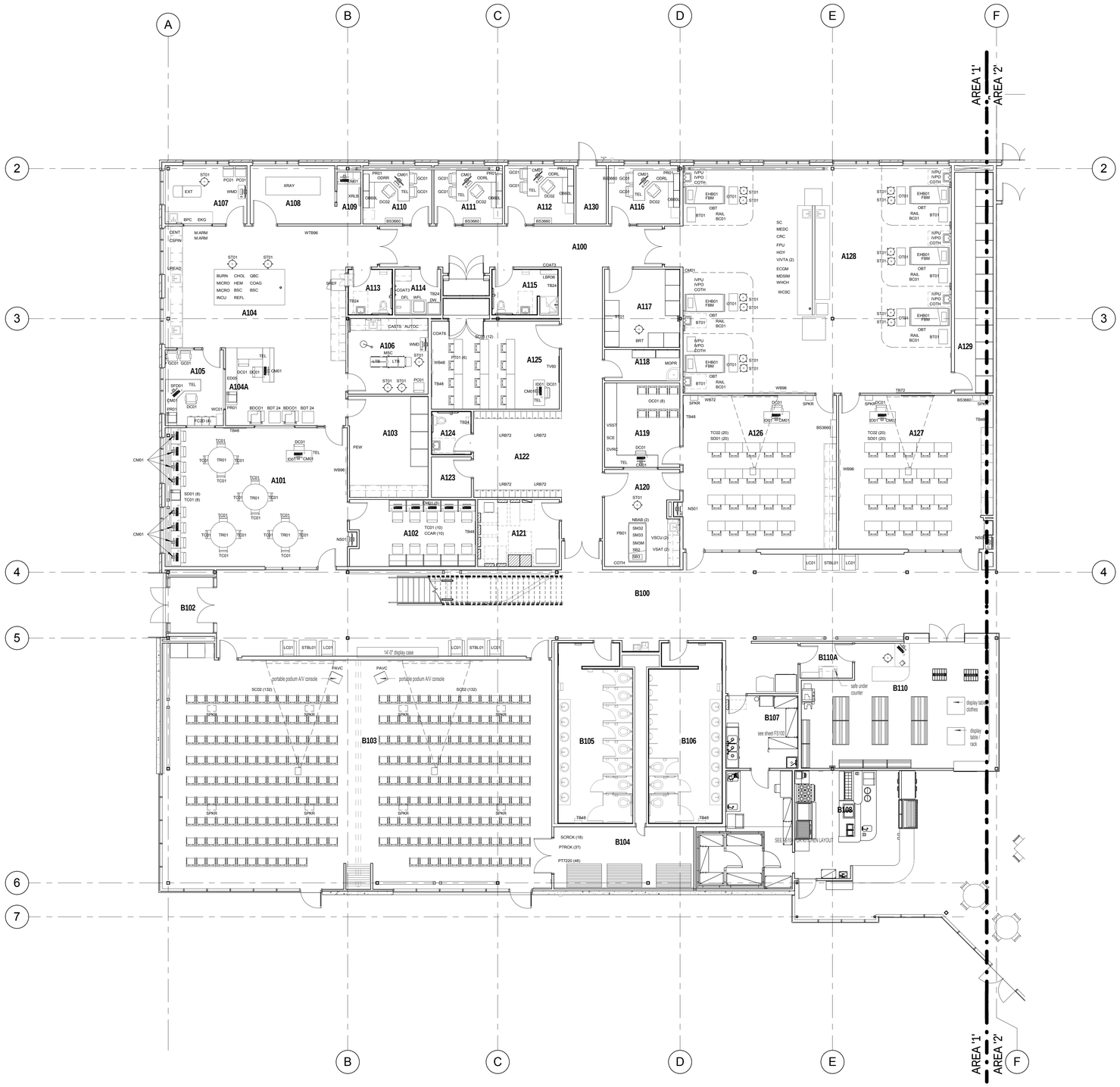
Lvl 2 Reflected Ceiling Plan 3

sheet:

AE163

100% Construction Documents

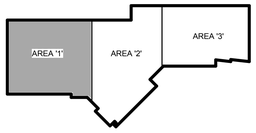
ROOM SCHEDULE LEVEL _1	
Number	Name
A100	CORRIDOR
A101	MEDICAL ASSISTING CLASSROOM
A102	TESTING
A103	STORAGE
A104	MEDICAL ASSISTING LAB
A104A	LAB RECEPTION
A105	MA Office
A106	SURGERY
A107	EXAM
A108	XRAY
A109	X-RAY CONTROL
A110	OFFICE
A111	OFFICE
A112	OFFICE
A113	TOILET
A114	LAUNDRY
A115	INSTRUCTION TOILET
A116	OFFICE
A117	CNA STORAGE
A118	JANITOR
A119	CONTROL
A120	SIM ROOM
A121	ELECTRICAL
A122	LOCKER ROOM
A123	STORAGE
A124	TOILET
A125	CPR
A126	LPN/CNA CLASSROOM
A127	RN CLASSROOM
A128	LPN/RN/CNA LAB SUITE
A129	STORAGE
A130	FIRE RISER ROOM
B100	CORRIDOR
B101	LOBBY
B101A	VESTIBULE
B102	VESTIBULE
B103	MULTIPURPOSE ROOM
B104	STORAGE
B105	WOMEN
B106	MEN
B107	KITCHEN STORAGE
B108	KITCHEN
B109	WALK-IN COOLER
B110	BOOKSTORE
B110A	BOOKSTORE STORAGE
B111	CAFETERIA
B112	MEDIA
B113	PLACEMENT
B114	PLACEMENT OFFICE
B115	OFFICE
B116	ASSESSMENT
B117	ELEV. EQ.
B118	ELEVATOR
B119	RECEPTION
B120	ENROLLMENT
B120A	CORRIDOR
B121	ENROLMENT WAITING
B122	COUNSELOR
B123	SIS OFFICE
B124	STORAGE / STUDENT RECORDS
B125	SPARE OFFICE
B126	SS VP
C100	CORRIDOR
C100A	CORRIDOR
C100B	COORIDOR
C100C	VESTIBULE
C101	SHELLED LAB
C102	SHELLED CLASSROOM
C102A	RECEIVING
C103	CONSTRUCTION TECHNOLOGY LAB
C103A	VESTIBULE
C104	CONSTRUCTION TECHNOLOGY CLASSROOM
C105	CT STORAGE
C106	CT OFFICE
C107	WELDING LAB
C108	GRINDING
C109	MAIN ELECTRICAL
C110	SUPPLY ROOM
C111	TOOL STORAGE
C112	DIESEL CLASSROOM
C113	DIESEL OFFICE
C114	WELDING CLASSROOM
C115	WELDING OFFICE
C116	WL STORAGE
C117	LOCKER
C118	TOILET
C119	LOCKER
C120	TOILET
C121	CE & R LAB
C122	CE & R STORAGE
C123	CE & R OFFICE
C124	CE & R CLASSROOM



1 Level 1 Furniture Plan Area '1'
1/8" = 1'-0"

KEYNOTE LEGEND

GENERAL FF&E NOTES	
1	THIS SHEET IS FOR REFERENCE COORDINATE WITH THE FF&E SPECIFICATIONS
2	CONTRACTOR TO PROVIDE SOLID BLOCKING AT ALL CASE WORK, FIXED FURNISHINGS AND EQUIPMENT. COORDINATE WITH ELEVATIONS, SECTIONS AND FURNITURE AND FIXTURE SHEETS AND SPECIFICATIONS.



LICENSED ARCHITECT
6710870
JOSEPH FLINT SMITH
STATE OF UTAH
01.20.12

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project:
TOOELE APPLIED TECHNOLOGY COLLEGE - NEW BUILDING

88 South Tooele Blvd
Tooele, UT 84074

DFCM PROJECT #1106280

project#: 11.0420
date: 1/20/2012

revisions :

Lvl 1 Furniture Plan Area '1'

sheet:
AE171

100% Construction Documents

ROOM SCHEDULE LEVEL _1	
Number	Name
A100	CORRIDOR
A101	MEDICAL ASSISTING CLASSROOM
A102	TESTING
A103	STORAGE
A104	MEDICAL ASSISTING LAB
A104A	LAB RECEPTION
A105	MA Office
A106	SURGERY
A107	EXAM
A108	XRAY
A109	X-RAY CONTROL
A110	OFFICE
A111	OFFICE
A112	OFFICE
A113	TOILET
A114	LAUNDRY
A115	INSTRUCTION TOILET
A116	OFFICE
A117	CNA STORAGE
A118	JANITOR
A119	CONTROL
A120	SIM ROOM
A121	ELECTRICAL
A122	LOCKER ROOM
A123	STORAGE
A124	TOILET
A125	CPR
A126	LPN/CNA CLASSROOM
A127	RN CLASSROOM
A128	LPN/RN/CNA LAB SUITE
A129	STORAGE
A130	FIRE RISER ROOM
B100	CORRIDOR
B101	LOBBY
B101A	VESTIBULE
B102	VESTIBULE
B103	MULTIPURPOSE ROOM
B104	STORAGE
B105	WOMEN
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B107	KITCHEN STORAGE
B108	KITCHEN
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B114	PLACEMENT OFFICE
B115	OFFICE
B116	ASSESSMENT
B117	ELEV. EQ.
B118	ELEVATOR
B119	RECEPTION
B120	ENROLLMENT
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B121	ENROLMENT WAITING
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C115	WELDING OFFICE
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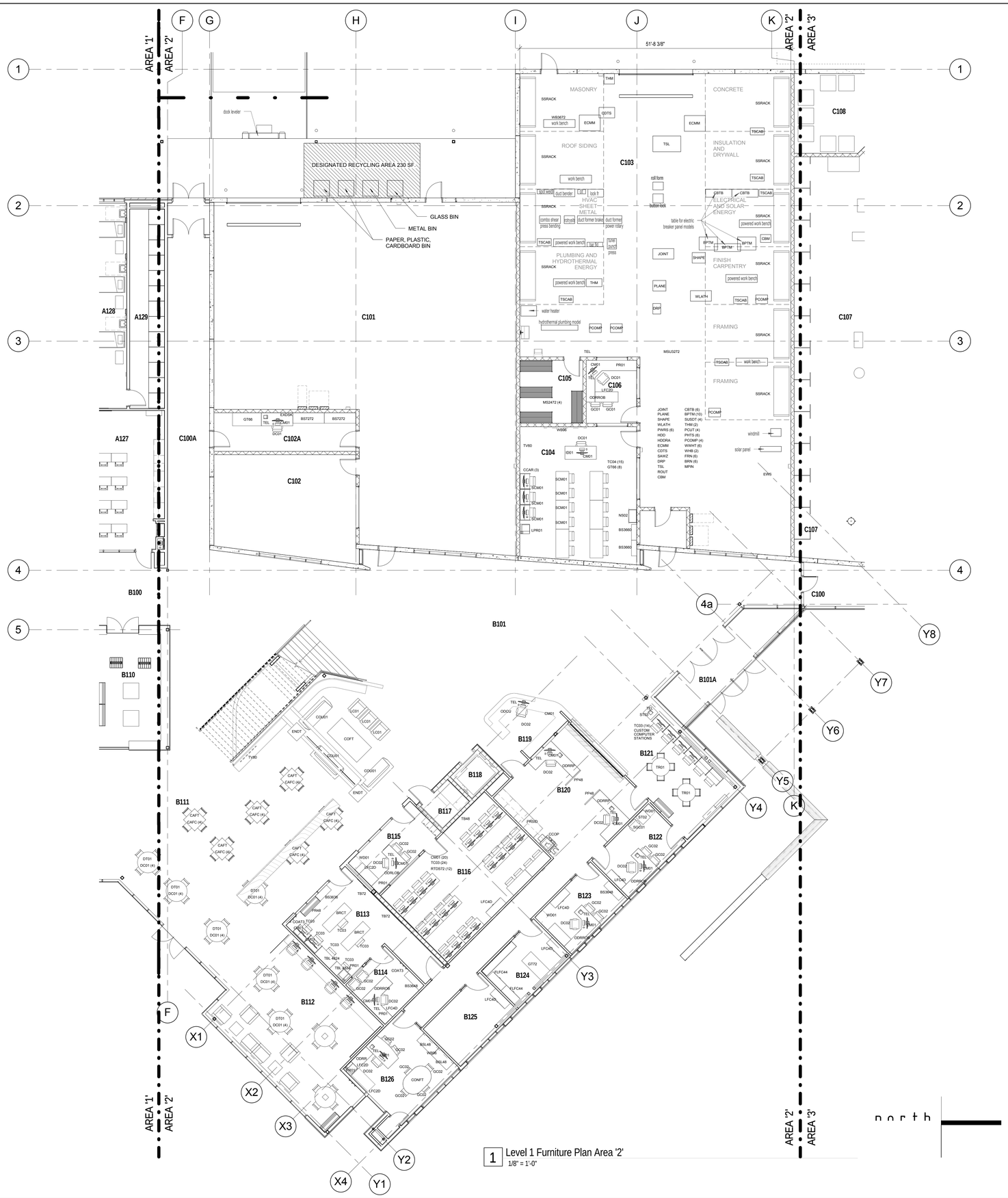

1 Level 1 Furniture Plan Area '2'
1/8" = 1'-0"

KEYNOTE LEGEND

GENERAL FF&E NOTES	
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project:
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88 South Tooele Blvd
Tooele, UT 84074

DFCM PROJECT #11064280

project#: 11.0420
date: 1/20/2012

revisions :

Lvl 1 Furniture Plan Area '2'

sheet:

AE172

100% Construction Documents

ROOM SCHEDULE LEVEL _1	
Number	Name
A100	CORRIDOR
A101	MEDICAL ASSISTING CLASSROOM
A102	TESTING
A103	STORAGE
A104	MEDICAL ASSISTING LAB
A104A	LAB RECEPTION
A105	MA Office
A106	SURGERY
A107	EXAM
A108	XRAY
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A111	OFFICE
A112	OFFICE
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A115	INSTRUCTION TOILET
A116	OFFICE
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B104	STORAGE
B105	WOMEN
B106	MEN
B107	KITCHEN STORAGE
B108	KITCHEN
B109	WALK-IN COOLER
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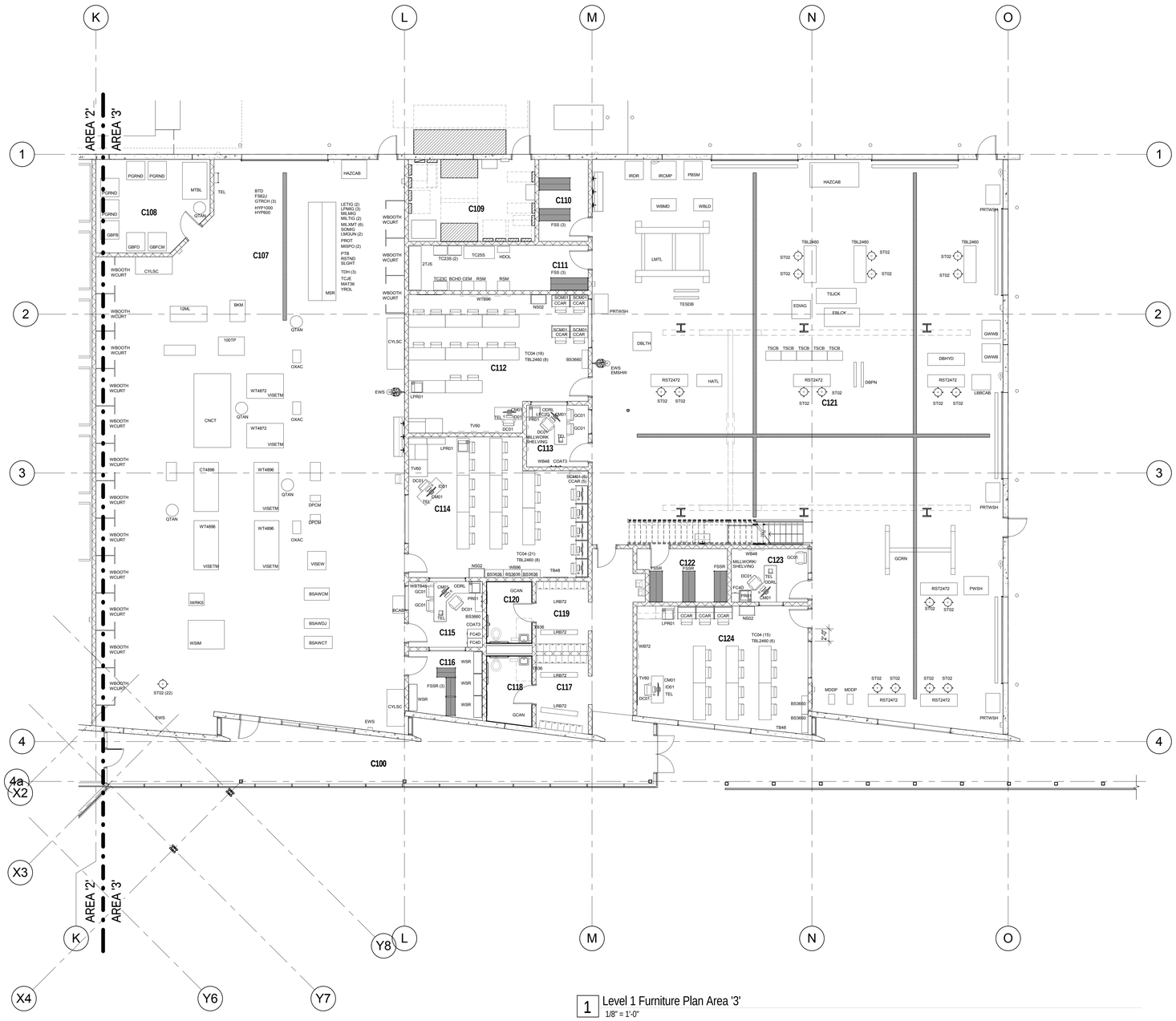
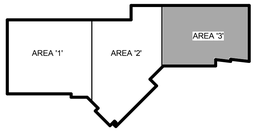
C100C	VESTIBULE
C101	SHELLED LAB
C102	SHELLED CLASSROOM
C102A	RECEIVING
C103	CONSTRUCTION TECHNOLOGY LAB
C103A	VESTIBULE
C104	CONSTRUCTION TECHNOLOGY CLASSROOM
C105	CT STORAGE
C106	CT OFFICE
C107	WELDING LAB
C108	GRINDING
C109	MAIN ELECTRICAL
C110	SUPPLY ROOM
C111	TOOL STORAGE
C112	DIESEL CLASSROOM
C113	DIESEL OFFICE
C114	WELDING CLASSROOM
C115	WELDING OFFICE
C116	WL STORAGE
C117	LOCKER
C118	TOILET
C119	LOCKER
C120	TOILET
C121	CE & R LAB
C122	CE & R STORAGE
C123	CE & R OFFICE
C124	CE & R CLASSROOM



1 Level 1 Furniture Plan Area '3'
1/8" = 1'-0"

north



KEYNOTE LEGEND

GENERAL FF&E NOTES	
1	THIS SHEET IS FOR REFERENCE COORDINATE WITH THE FF&E SPECIFICATIONS
2	CONTRACTOR TO PROVIDE SOLID BLOCKING AT ALL CASE WORK, FIXED FURNISHINGS AND EQUIPMENT. COORDINATE WITH ELEVATIONS, SECTIONS AND FURNITURE AND FIXTURE SHEETS AND SPECIFICATIONS.

LICENSED ARCHITECT 6710870 JOSEPH FLINT SMITH STATE OF UTAH
01.20.12

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METHOD STUDIO INC.
925 south west temple
salt lake city, utah 84101
phone:(801) 532-4422

consultants:

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project:
TOOELE APPLIED TECHNOLOGY COLLEGE - NEW BUILDING

88 South Tooele Blvd
Tooele, UT 84074

DFCM PROJECT #11064280

project#: 11.0420
date: 1/20/2012

revisions :

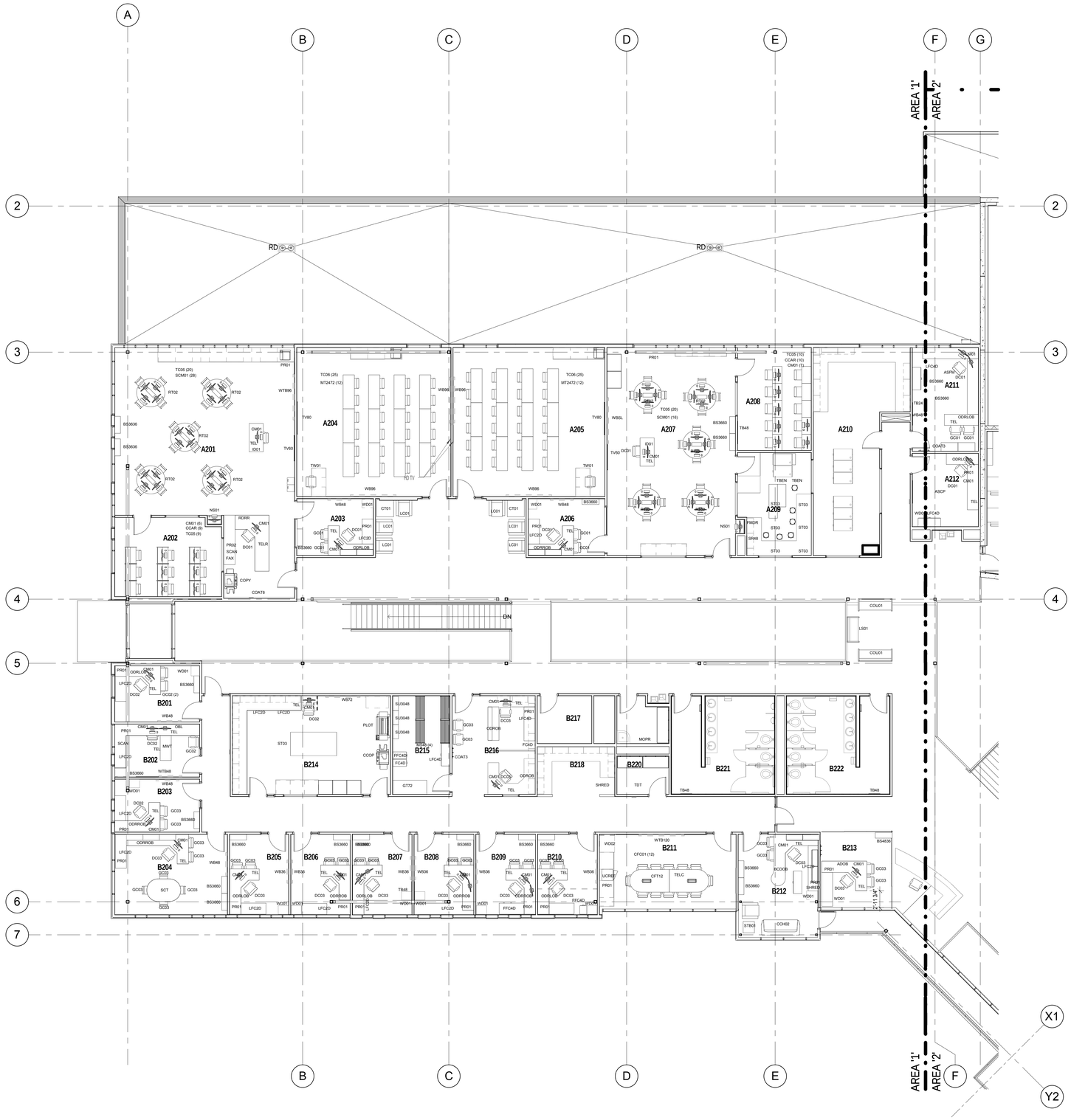
Lvl 1 Furniture Plan Area '3'

sheet:

AE173

100% Construction Documents

ROOM SCHEDULE LEVEL 2	
Number	Name
A200	CORRIDOR
A201	BT LAB
A202	TESTING
A203	BT OFFICE
A204	USU CLASSROOM
A205	USU CLASSROOM
A206	IT OFFICE
A207	IT CLASSROOM
A208	IT TESTING
A209	IT LAB
A210	SERVER / IT STORAGE
A211	IT ADMIN
A212	IT ASSISTANT
B200	CORRIDOR
B201	DIRECTOR
B202	CURRICULUM DEVELOPER
B203	ASSISTANT
B204	VP INSTRUCTION OFFICE
B205	DIRECTOR
B206	CUSTOM
B207	USU OFFICE
B208	USU OFFICE
B209	DIRECTOR OFFICE / FINANCE
B210	HUMAN RESOURCES
B211	EXECUTIVE CONFERENCE ROOM
B212	PRESIDENT
B213	PRESIDENT ASSISTANT
B214	MARKETING / OFFICE
B215	STORAGE RECORDS
B216	OPEN OFFICE 2-3 PPL
B217	ELECTRICAL
B218	PRINT / STOR.
B219	JAN.
B220	STOR.
B221	MEN
B222	WOMEN
B223	RECEPTION / WAITING
B224	BOARDROOM
B225	KITCHEN
B226	WORKROOM
B227	FACULTY/ BREAK
B228	TOILET
B229	LOCKER/SHOWER
B230	TOILET
B231	LOCKER/SHOWER
B232	EXERCISE
B233	WELLNESS
C201	CDL CLASSROOM
C202	PUMP
C203	BOILER
C204	IT WORKROOM
C205	STORAGE
C206	CORRIDOR
C208	MEZZANINE STORAGE
C209	STORAGE



1 Level 2 Furniture Plan Area '1'
1/8" = 1'-0"

KEYNOTE LEGEND

GENERAL FF&E NOTES	
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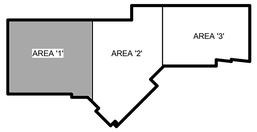

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JOSEPH FLINT SMITH
STATE OF UTAH
01.20.12

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project:
TOOELE APPLIED TECHNOLOGY COLLEGE - NEW BUILDING

88 South Tooele Blvd
Tooele, UT 84074

DFCM PROJECT #11054280

project#: 11.0420
date: 1/20/2012

revisions :

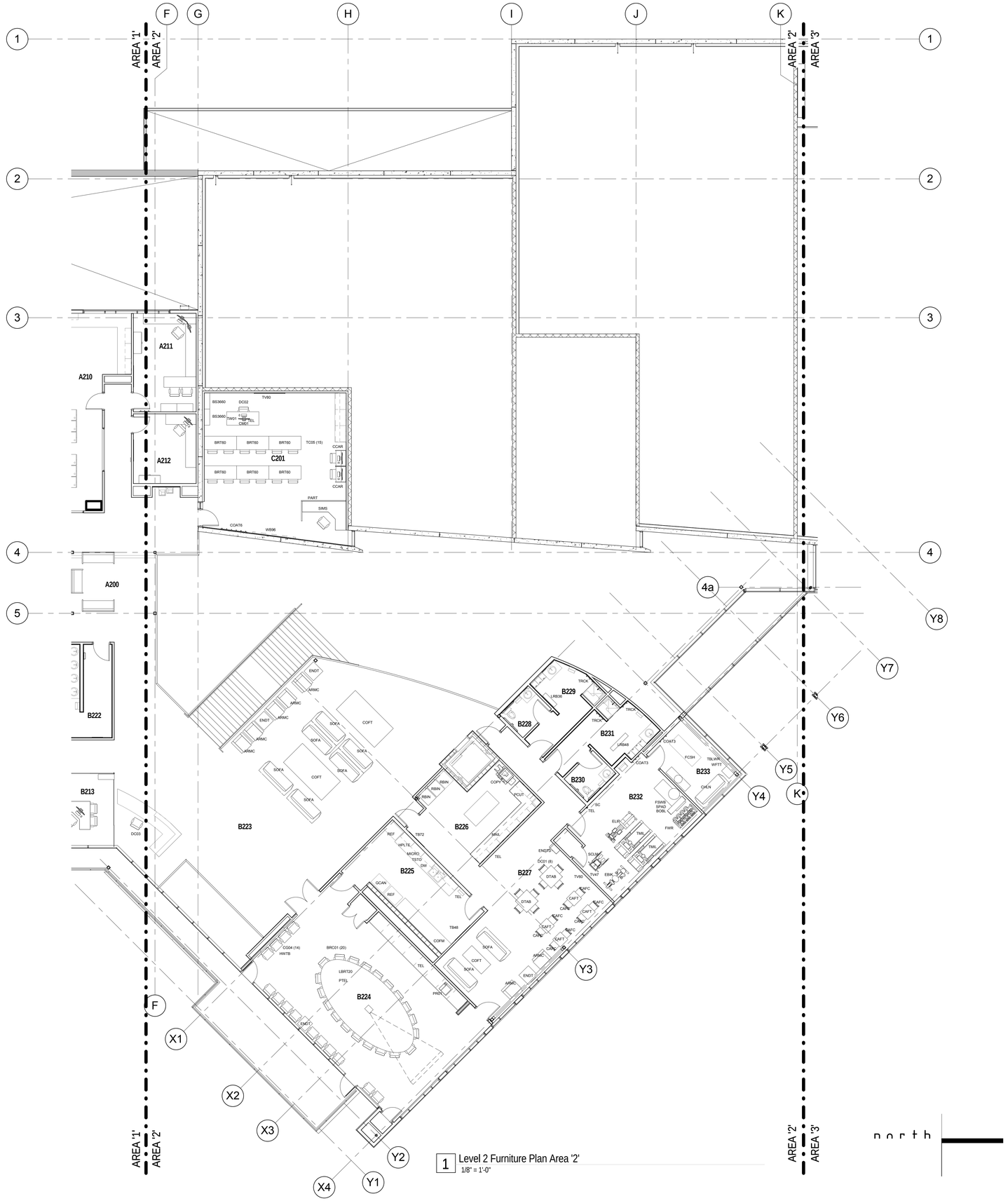
Lvl 2 Furniture Plan Area '1'

sheet:

AE181

100% Construction Documents

ROOM SCHEDULE LEVEL 2	
Number	Name
A200	CORRIDOR
A201	BT LAB
A202	TESTING
A203	BT OFFICE
A204	USU CLASSROOM
A205	USU CLASSROOM
A206	IT OFFICE
A207	IT CLASSROOM
A208	IT TESTING
A209	IT LAB
A210	SERVER / IT STORAGE
A211	IT ADMIN
A212	IT ASSISTANT
B200	CORRIDOR
B201	DIRECTOR
B202	CURRICULUM DEVELOPER
B203	ASSISTANT
B204	VP INSTRUCTION OFFICE
B205	DIRECTOR
B206	CUSTOM
B207	USU OFFICE
B208	USU OFFICE
B209	DIRECTOR OFFICE / FINANCE
B210	HUMAN RESOURCES
B211	EXECUTIVE CONFERENCE ROOM
B212	PRESIDENT
B213	PRESIDENT ASSISTANT
B214	MARKETING / OFFICE
B215	STORAGE RECORDS
B216	OPEN OFFICE 2-3 PPL
B217	ELECTRICAL
B218	PRINT / STOR.
B219	JAN.
B220	STOR.
B221	MEN
B222	WOMEN
B223	RECEPTION / WAITING
B224	BOARDROOM
B225	KITCHEN
B226	WORKROOM
B227	FACULTY/ BREAK
B228	TOILET
B229	LOCKER/SHOWER
B230	TOILET
B231	LOCKER/SHOWER
B232	EXERCISE
B233	WELLNESS
C201	CDL CLASSROOM
C202	PUMP
C203	BOILER
C204	IT WORKROOM
C205	STORAGE
C206	CORRIDOR
C208	MEZZANINE STORAGE
C209	STORAGE



1 Level 2 Furniture Plan Area '2'
1/8" = 1'-0"

KEYNOTE LEGEND

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6710870
JOSEPH FLINT SMITH
STATE OF UTAH
01.20.12

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project:
TOOELE APPLIED TECHNOLOGY COLLEGE - NEW BUILDING

88 South Tooele Blvd
Tooele, UT 84074

DFCM PROJECT #11064280

project#: 11.0420
date: 1/20/2012

revisions :

Lvl 2 Furniture Plan Area '2'

sheet:

AE182

100% Construction Documents

ROOM SCHEDULE LEVEL 2	
Number	Name
A200	CORRIDOR
A201	BT LAB
A202	TESTING
A203	BT OFFICE
A204	USU CLASSROOM
A205	USU CLASSROOM
A206	IT OFFICE
A207	IT CLASSROOM
A208	IT TESTING
A209	IT LAB
A210	SERVER / IT STORAGE
A211	IT ADMIN
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B225	KITCHEN
B226	WORKROOM
B227	FACULTY/ BREAK
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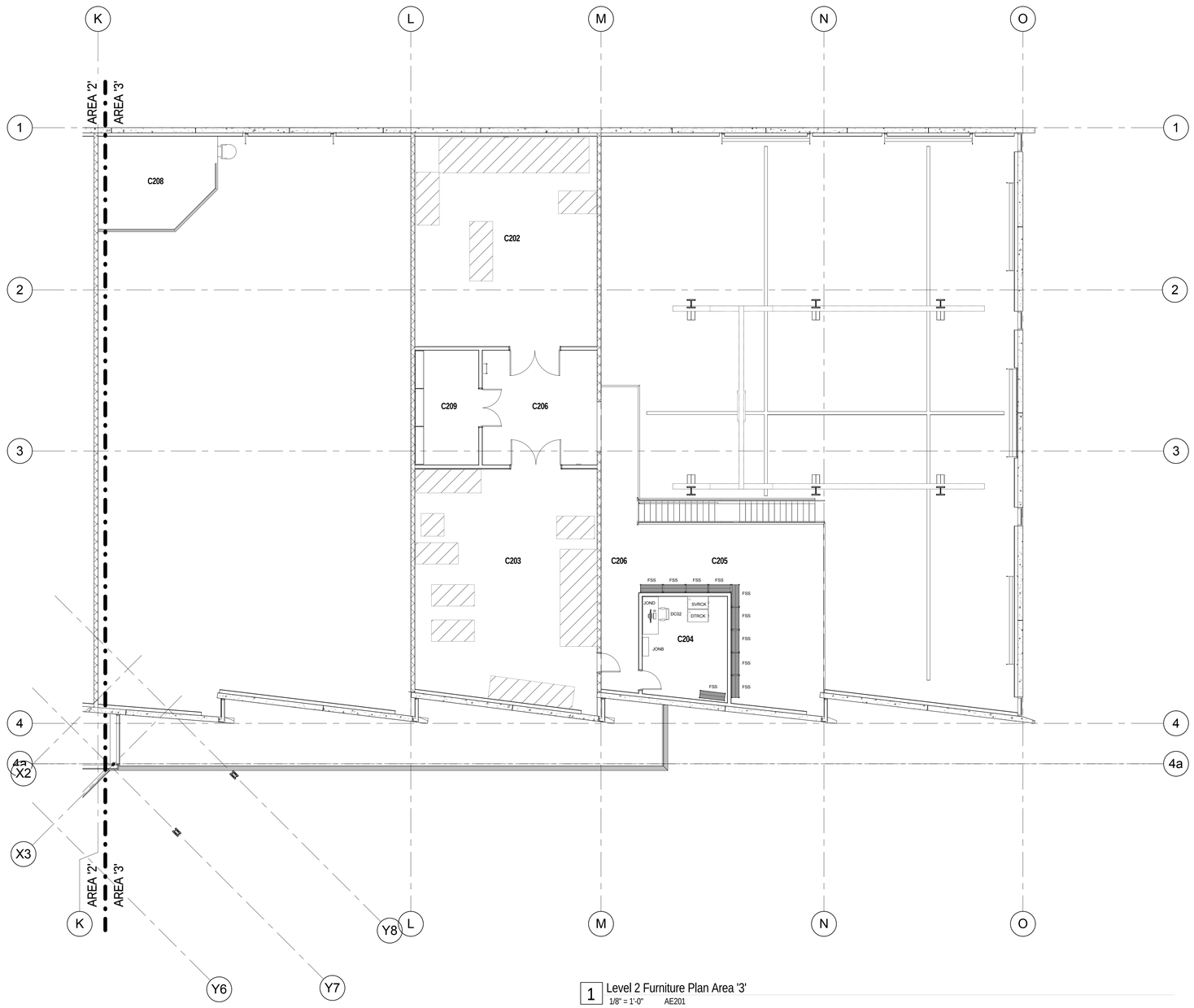
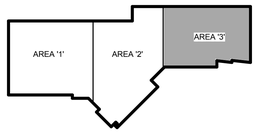
C201	CDL CLASSROOM
C202	PUMP
C203	BOILER
C204	IT WORKROOM
C205	STORAGE
C206	CORRIDOR
C208	MEZZANINE STORAGE
C209	STORAGE



1 Level 2 Furniture Plan Area '3'
1/8" = 1'-0" AE201

north



KEYNOTE LEGEND

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LICENSED ARCHITECT 6710870 JOSEPH FLINT SMITH STATE OF UTAH
01.20.12

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project:
TOOELE APPLIED TECHNOLOGY COLLEGE - NEW BUILDING

88 South Tooele Blvd
Tooele, UT 84074

DFCM PROJECT #11064280

project#: 11.0420
date: 1/20/2012

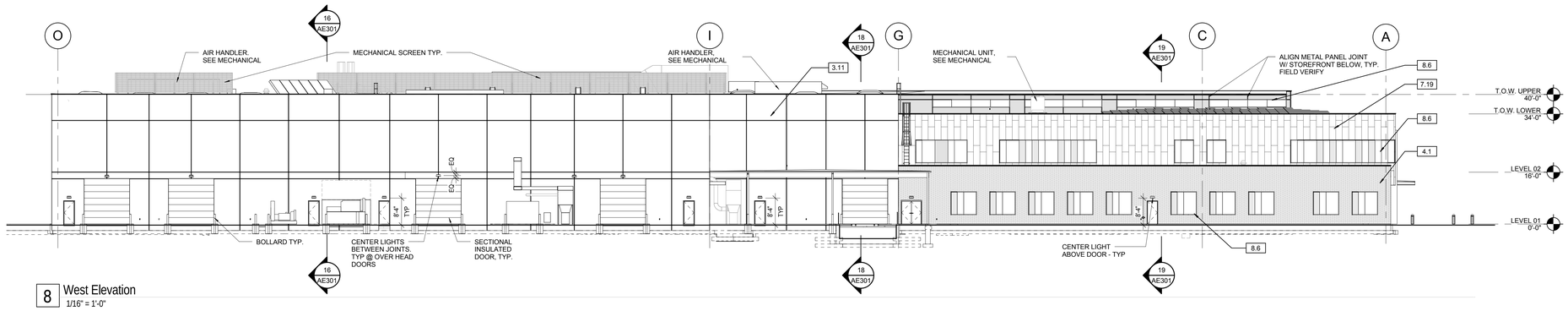
revisions :

Lvl 2 Furniture Plan Area '3'

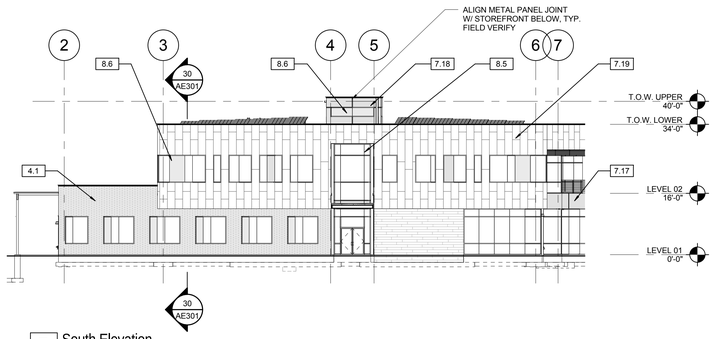
sheet:

AE183

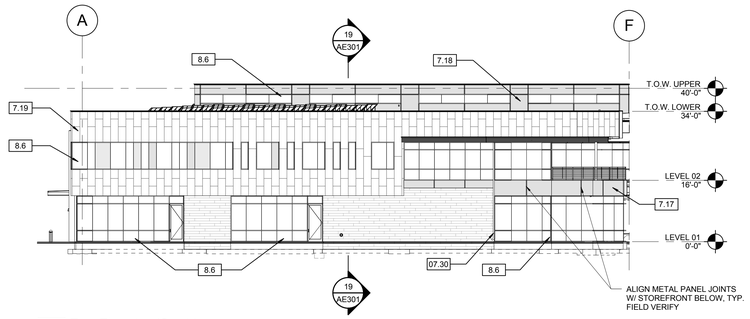
100% Construction Documents



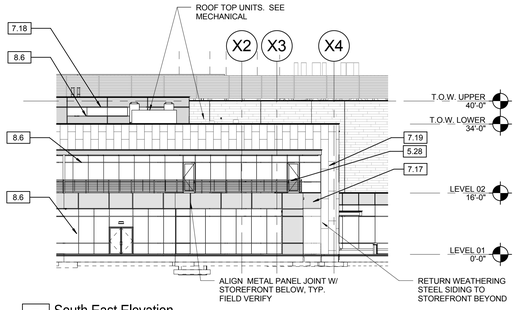
8 West Elevation
1/16" = 1'-0"



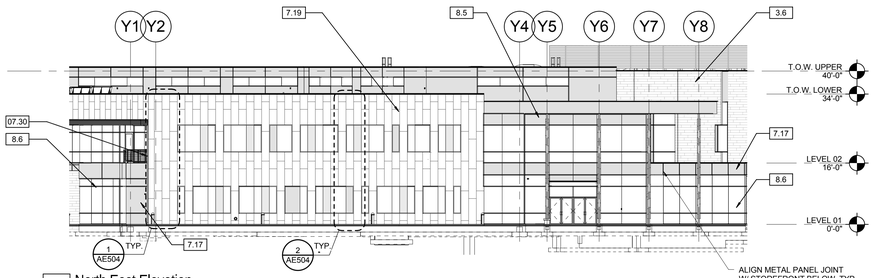
7 South Elevation
1/16" = 1'-0"



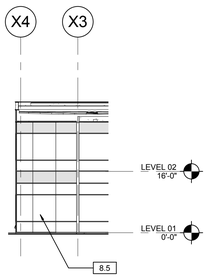
6 East Elevation (South)
1/16" = 1'-0"



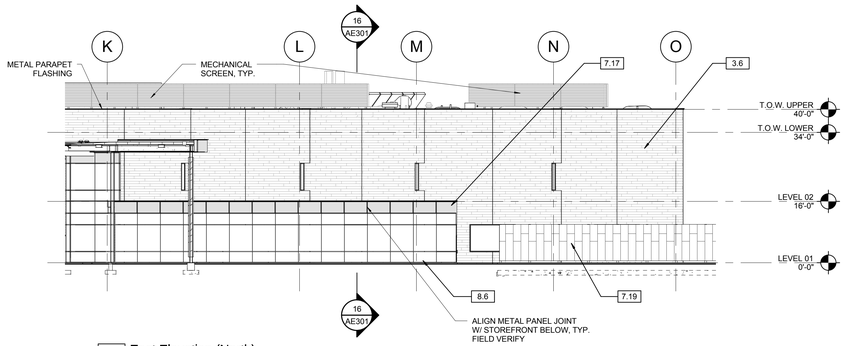
5 South East Elevation
1/16" = 1'-0"



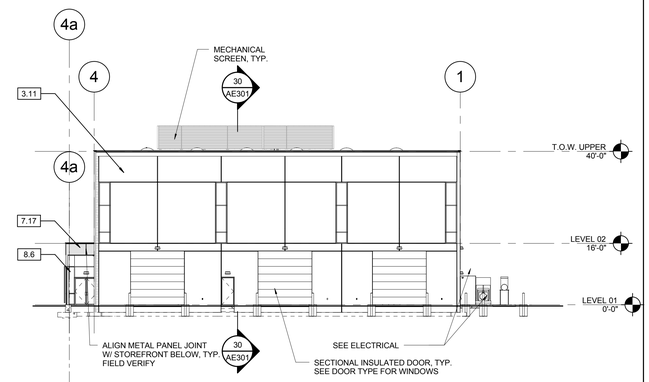
4 North East Elevation
1/16" = 1'-0"



3 West Partial Elevation
1/16" = 1'-0"



2 East Elevation (North)
1/16" = 1'-0"



1 North Elevation
1/16" = 1'-0"

KEYNOTE LEGEND

3.6	10" TILT-UP CONCRETE WALL WITH BOARD FORM LINER. SEE STRUCTURAL
3.11	CONCRETE TILT-UP WALL PANEL
4.1	16" EMPEROR BRICK
5.28	CABLE GUARDRAIL SYSTEM
7.17	ALUMINUM COMPOSITE METAL PANEL ROUTE AND RETURN SYSTEM
7.18	ALUMINUM COMPOSITE METAL PANEL REVEAL SYSTEM
7.19	WEATHERING STEEL SIDING
07.30	DOWNSPOUT
8.5	CURTAINWALL SYSTEM
8.6	STOREFRONT SYSTEM

GENERAL ELEVATION NOTES

1 ALL EXPOSED EXTERIOR STEEL TO BE PAINTED WITH A HIGH PERFORMANCE COATING TO MATCH ANODIZED ALUMINUM FINISHES.

2 EXT. FLASHING GUTTERS & DOWNSPOUTS TO BE FACTORY PAINTED TO MATCH ANNODIZED ALUMINUM FINISHES.

3 HOLLOW METAL DOORS & FRAMES TO BE PAINTED WITH A HIGH PERFORMANCE COATING TO MATCH ANNODIZED ALUMINUM FINISHES.

4 SEE TILT-UP PANEL ELEVATIONS FOR TILT-UP PANEL FINISHES AND DETAILING.

LICENSED ARCHITECT 6710870 JOSEPH FLINT SMITH STATE OF UTAH
01.20.12

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project:
TOOELE APPLIED TECHNOLOGY COLLEGE - NEW BUILDING

88 South Tooele Blvd
Tooele, UT 84074

DFCM PROJECT #11064280

project#: 11.0420
date: 1/20/2012

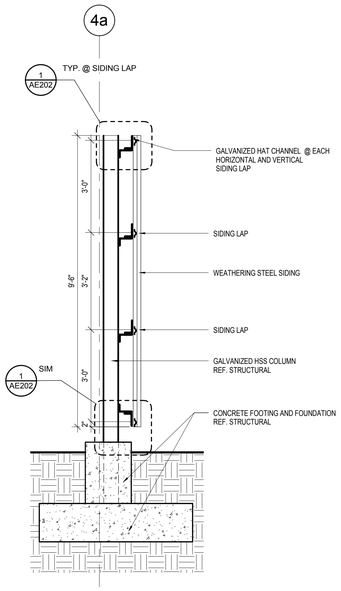
revisions:

Elevations

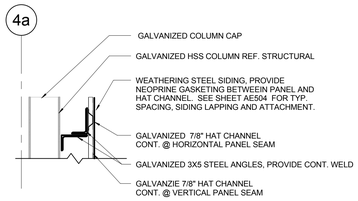
sheet:

AE201

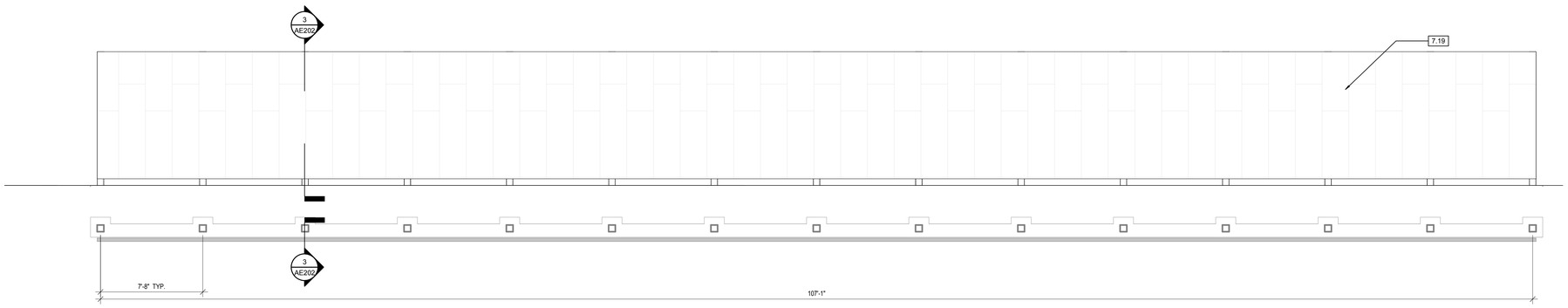
100% Construction Documents



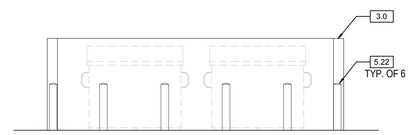
3 SITE WALL SECTION
1/2" = 1'-0"



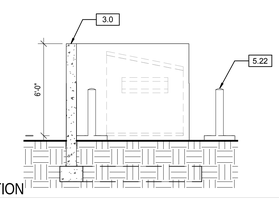
1 SITE WALL DETAIL
1" = 1'-0"



5 SITE WALL
1/4" = 1'-0"



4 GARBAGE ENCLOSURE
1/4" = 1'-0"



9 SECTION
1/4" = 1'-0"

KEYNOTE LEGEND

3.0	CAST-IN-PLACE CONCRETE WALL, SEE STRUCTURAL
5.22	6" DIA. GALV. STEEL BOLLARD, SEE DETAIL 8/AE502
7.19	WEATHERING STEEL SIDING

GENERAL SITE ELEVATION NOTES

1 ALL EXPOSED EXTERIOR STEEL TO BE PAINTED U.N.O.

2 EXT. FLASHING GUTTERS & DOWNSPOUTS TO BE FACTORY PAINTED TO MATCH ANNODIZED ALUMINUM.

3 EXTERIOR HOLLOW METAL DOORS & FRAMES TO BE PAINTED U.N.O.

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project:
TOOELE APPLIED TECHNOLOGY COLLEGE - NEW BUILDING

88 South Tooele Blvd
Tooele, UT 84074

DFCM PROJECT #11064280

project#: 11.0420
date: 1/20/2012

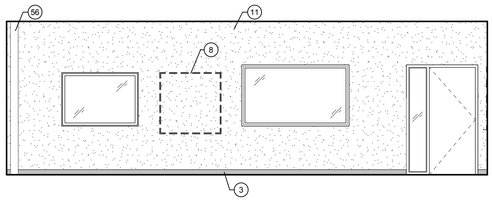
revisions :

Elevations

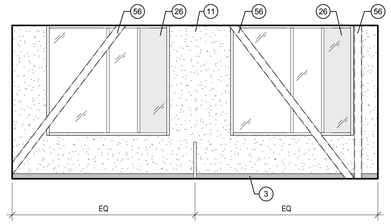
sheet:

AE202

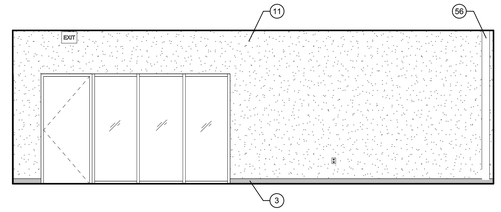
100% Construction Documents



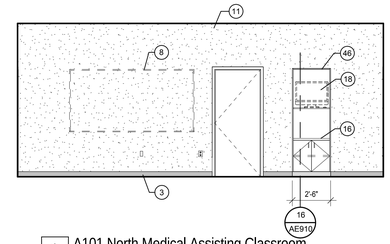
4 A101 West Medical Assisting Classroom
1/4" = 1'-0"



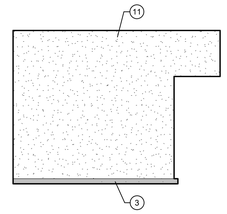
3 A101 South Medical Assisting Classroom
1/4" = 1'-0"



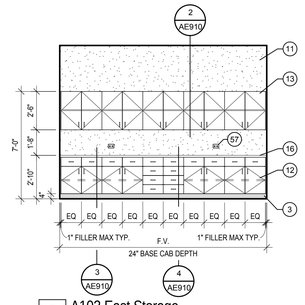
2 A101 East Medical Assisting Classroom
1/4" = 1'-0"



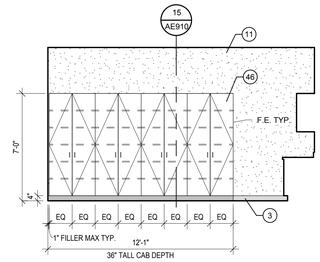
1 A101 North Medical Assisting Classroom
1/4" = 1'-0"



7 A103 West Storage
1/4" = 1'-0"



6 A103 East Storage
1/4" = 1'-0"



5 A103 North Storage
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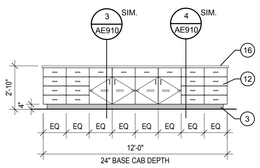
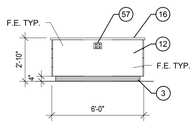
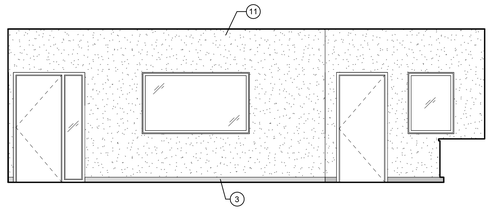


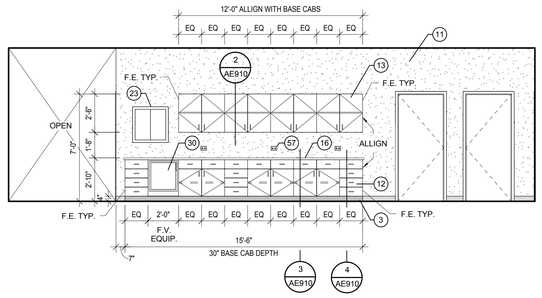
13 A104 East Medical Assisting Lab Casework Island
1/4" = 1'-0"



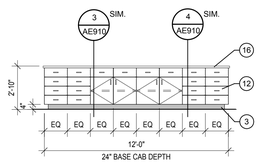
12 A104 North Medical Assisting Lab Casework Island
1/4" = 1'-0"



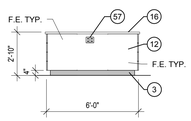
9 A104 East Medical Assisting Lab
1/4" = 1'-0"



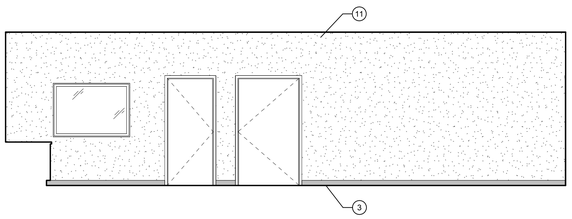
8 A104 North Medical Assisting Lab
1/4" = 1'-0"



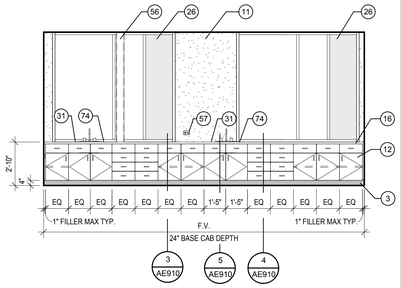
15 A104 West Medical Assisting Lab Casework Island
1/4" = 1'-0"



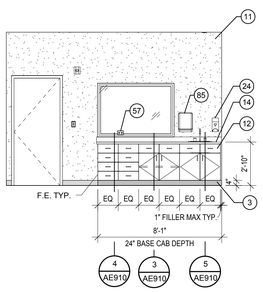
14 A104 South Medical Assisting Lab Casework Island
1/4" = 1'-0"



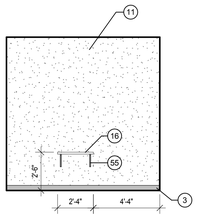
11 A104 West Medical Assisting Lab
1/4" = 1'-0"



10 A104 South Medical Assisting Lab
1/4" = 1'-0"



20 A107 East Exam
1/4" = 1'-0"



19 A107 North Exam
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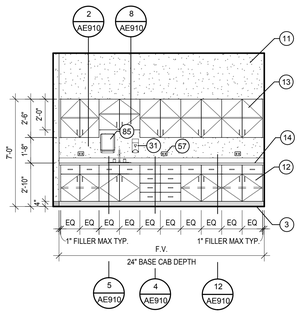
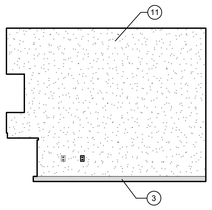
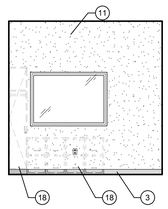


18 A106 West Surgery
1/4" = 1'-0"



17 A106 North Surgery
1/4" = 1'-0"



16 A105 East MA Office
1/4" = 1'-0"

KEYNOTE LEGEND

3	BASE AS SPECIFIED
8	WHITE BOARD / TACK BOARD BY OTHERS
11	GWB PAINTED WALL - REFER TO ROOM FINISH SCHEDULE (AE611)
12	PLASTIC LAMINATE BASE CABINET
13	PLASTIC LAMINATE UPPER CABINET
14	PLASTIC LAMINATE COUNTERTOP W/ 4" BACKSPLASH
16	PLASTIC LAMINATE COUNTERTOP W/ NO BACKSPLASH
18	FURNITURE OR EQUIPMENT BY OTHERS
23	RECESSED SPECIMEN PASS THRU STAINLESS STEEL CABINET - REFER TO ACCESSORY SCHEDULE (AE611)
24	WALL MOUNTED SOAP DISPENSER - REFER TO MOUNTING HEIGHT ELEVATIONS (1/AE901) & ACCESSORY SCHEDULE (AE611)
26	TINTED GLASS
30	UNDER COUNTER REFRIGERATOR - OWNER PROVIDED CONTRACTOR INSTALLED
31	COUNTER MOUNTED SOAP DISPENSOR - REFER TO ACCESSORY SCHEDULE (AE611)
46	PLASTIC LAMINATE TALL CABINETS W/ ADJUSTABLE SHELVING
55	FULLY CONCEALED WORK SURFACE SUPPORTS - 3' O.C.
56	PAINTED METAL STRUCTURE (PNT-9)
57	DATA / ELECTRICAL - REFER TO ELECTRICAL DRWGS
74	RECESSED COUNTER MOUNTED PAPER TOWEL DISPENSER - REFER TO ACCESSORY SCHEDULE (AE611)
85	WALL MOUNTED PAPER TOWEL DISPENSOR

GENERAL NOTES

1. UNLESS NOTED OTHERWISE, SEE SHEET 1/AE901 FOR TYPICAL ACCESSORY MOUNTING HEIGHTS
2. UPPER, LOWER, AND TALL MILLWORK CABINETS NOT TO EXCEED 36" IN WIDTH
3. UNLESS NOTED OTHERWISE, MATCH UPPER CABINET WIDTH DIMENSIONS TO BASE CABINETS - TYP.
4. ALL ELECTRICAL AND DATA OUTLETS ABOVE COUNTER TOPS SHOULD BE MOUNTED HORIZONTALLY
5. PROVIDE SAFETY INSULATION ON ALL EXPOSED SUPPLY WATER LINES AND WASTE LINES.

LICENSED ARCHITECT
6710870
JOSEPH FLINT SMITH
STATE OF UTAH
01.20.12

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consultants:

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project:
TOOELE APPLIED TECHNOLOGY COLLEGE - NEW BUILDING

88 South Tooele Blvd
Tooele, UT 84074

DFCM PROJECT #11064280

project#: 11.0420
date: 1/20/2012

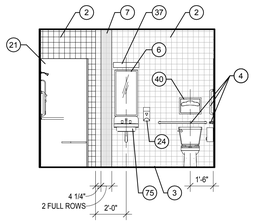
revisions:

Interior Elevations

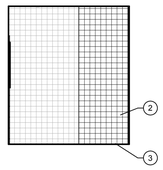
sheet:

AE210

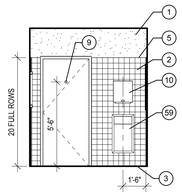
100% Construction Documents



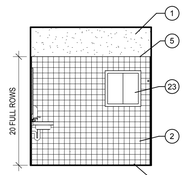
8 A115 East Instruction Toilet
1/4" = 1'-0"



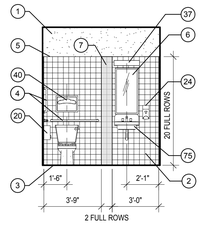
7 A115 North Instruction Toilet
1/4" = 1'-0"



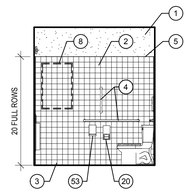
6 A113 West Toilet
1/4" = 1'-0"



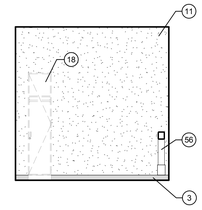
5 A113 South Toilet
1/4" = 1'-0"



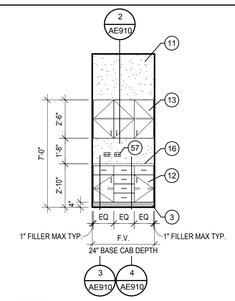
4 A113 East Toilet
1/4" = 1'-0"



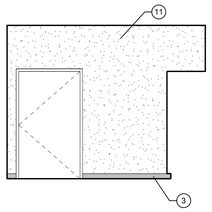
3 A113 North Toilet
1/4" = 1'-0"



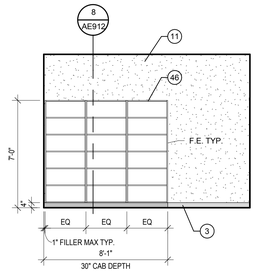
2 A110 South Office
1/4" = 1'-0"



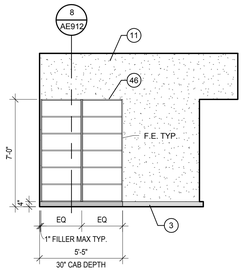
1 A109 West X-Ray Control
1/4" = 1'-0"



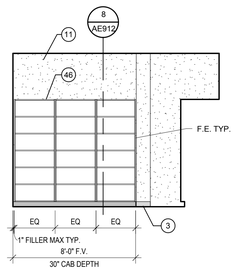
14 A117 West Storage
1/4" = 1'-0"



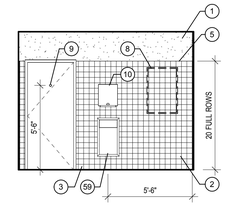
13 A117 South Storage
1/4" = 1'-0"



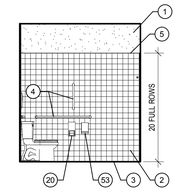
12 A117 East Storage
1/4" = 1'-0"



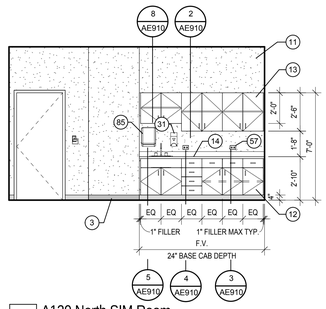
11 A117 North Storage
1/4" = 1'-0"



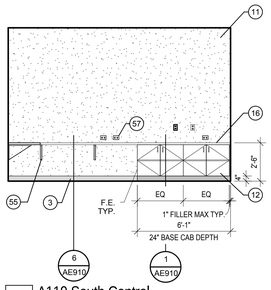
10 A115 West Instruction Toilet
1/4" = 1'-0"



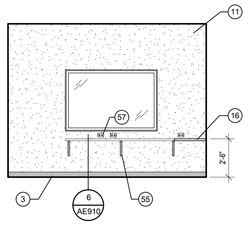
9 A115 South Instruction Toilet
1/4" = 1'-0"



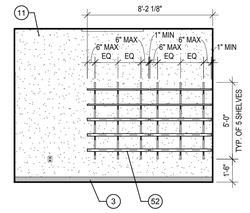
20 A120 North SIM Room
1/4" = 1'-0"



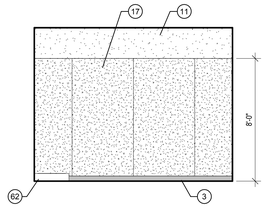
19 A119 South Control
1/4" = 1'-0"



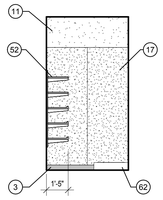
18 A119 East Control
1/4" = 1'-0"



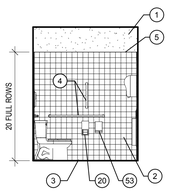
17 A118 West Janitor
1/4" = 1'-0"



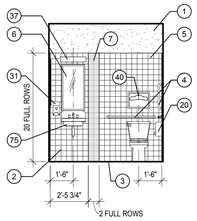
16 A118 East Janitor
1/4" = 1'-0"



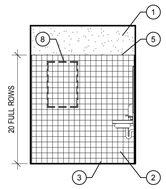
15 A118 North Janitor
1/4" = 1'-0"



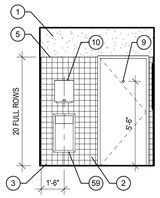
27 A124 West Toilet
1/4" = 1'-0"



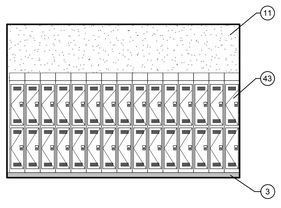
26 A124 South Toilet
1/4" = 1'-0"



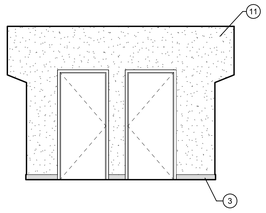
25 A124 East Toilet
1/4" = 1'-0"



24 A124 North Toilet
1/4" = 1'-0"



23 A122 West Locker
1/4" = 1'-0"



22 A122 South Locker
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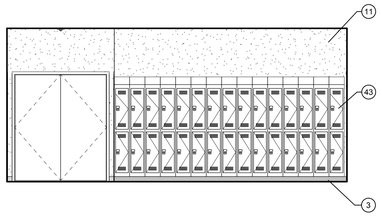
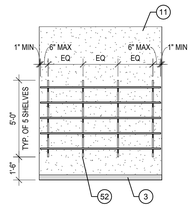
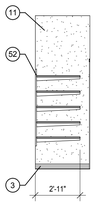


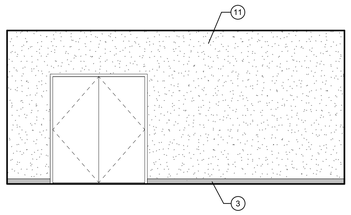
21 A122 East Locker
1/4" = 1'-0"



30 A125 West Mannequin Storage
1/4" = 1'-0"



29 A125 North Mannequin Storage
1/4" = 1'-0"



28 A125 West CPR
1/4" = 1'-0"

KEYNOTE LEGEND

1	PAINT GWB ABOVE TILE (PNT-9)
2	4x4 CERAMIC TILE (T-3)
3	BASE AS SPECIFIED
4	GRAB BAR - REFER TO MOUNTING HEIGHT ELEVATIONS (1/AE901), & ACCESSORY SCHEDULE (AE611)
5	BULLNOSED EDGE TILE (T-6)
6	MIRROR - CENTER OVER SINK - REFER TO MOUNTING HEIGHT ELEVATIONS (1/AE901) & ACCESSORY SCHEDULE (AE611)
7	TILE ACCENT (T-4) - TWO (2) FULL ROWS
8	WHITE BOARD / TACK BOARD BY OTHERS
9	COAT HOOK - REFER TO ACCESSORY SCHEDULE (AE611)
10	AUTOMATIC PAPER TOWEL DISPENSER - REFER TO MOUNTING HEIGHT ELEVATIONS (1/AE901) & ACCESSORY SCHEDULE (AE611)
11	GWB PAINTED WALL - REFER TO ROOM FINISH SCHEDULE (AE611)
12	PLASTIC LAMINATE BASE CABINET
13	PLASTIC LAMINATE UPPER CABINET
14	PLASTIC LAMINATE COUNTERTOP W/ 4" BACKSPLASH
16	PLASTIC LAMINATE COUNTERTOP W/ NO BACKSPLASH
17	WAINSCOT WALL PROTECTION (WP-1)
18	FURNITURE OR EQUIPMENT BY OTHERS
20	TOILET PAPER DISPENSOR - REFER TO MOUNTING HEIGHT ELEVATIONS (1/AE901) & ACCESSORY SCHEDULE (AE611)
21	PRE-FABRICATED 'ADA' SHOWER - REFER TO SPECIFICATIONS
23	RECESSED SPECIMEN PASS THRU STAINLESS STEEL CABINET - REFER TO ACCESSORY SCHEDULE (AE611)
24	WALL MOUNTED SOAP DISPENSER - REFER TO MOUNTING HEIGHT ELEVATIONS (1/AE901) & ACCESSORY SCHEDULE (AE611)
31	COUNTER MOUNTED SOAP DISPENSOR - REFER TO ACCESSORY SCHEDULE (AE611)
37	WALL SCONCE - REFER TO ELECTRICAL DRAWINGS
40	SEAT COVER DISPENSER - CENTER OVER TOILET - REFER TO MOUNTING HEIGHT ELEVATIONS (1/AE901) & ACCESSORY SCEDULE (AE611)
43	PLASTIC LAMINATE PARTIAL HEIGHT LOCKERS - REFER TO ACCESSORY SCHEDULE (AE611)
46	PLASTIC LAMINATE TALL CABINETS W/ ADJUSTABLE SHELVING
52	WALL MOUNTED ADJUSTABLE SHELVING - SEE ELEVATIONS FOR SHELF DEPTH - SHELVES TO BE 3/4" MDF W/ WHITE MELAMINE ON BOTH SIDES AND WHITE RUBBER EDGE BANDING ON ALL (4) EDGES TYP. - SHELVES TO BE SUPPORTED BY REEVE 761 OR EQUAL (WHITE) - BOTTOM (3) SHELVES IN JANITOR ROOMS SHALL HAVE 1 1/2" H LIP
53	SANITARY NAPKIN DISPOSAL - REFER TO MOUNTING HEIGHT ELEVATIONS (1/AE901) & ACCESSORY SCHEDULE (AE611)
55	FULLY CONCEALED WORK SURFACE SUPPORTS - 3' O.C.
56	PAINTED METAL STRUCTURE (PNT-9)
57	DATA / ELECTRICAL - REFER TO ELECTRICAL DRWGS
59	SEMI-RECESSED TRASH RECEPTACLE - REFER TO MOUNTING HEIGHT ELEVATIONS (1/AE901) & ACCESSORY SCHEDULE (AE611)
62	FLOOR SINK - REFER TO MECHANICAL DRWGS & SPECS.
75	WALL MOUNTED SINK - REFER TO MECHANICAL DRWGS - REFER TO MOUNTING HEIGHT ELEVATIONS (1/AE901)
85	WALL MOUNTED PAPER TOWEL DISPENSOR

GENERAL NOTES

1. UNLESS NOTED OTHERWISE, SEE SHEET 1/AE901 FOR TYPICAL ACCESSORY MOUNTING HEIGHTS
2. UPPER, LOWER, AND TALL MILLWORK CABINETS NOT TO EXCEED 36" IN WIDTH
3. UNLESS NOTED OTHERWISE, MATCH UPPER CABINET WIDTH DIMENSIONS TO BASE CABINETS - TYP.
4. ALL ELECTRICAL AND DATA OUTLETS ABOVE COUNTER TOPS SHOULD BE MOUNTED HORIZONTALLY
5. PROVIDE SAFETY INSULATION ON ALL EXPOSED SUPPLY WATER LINES AND WASTE LINES.

LICENSED ARCHITECT
6710870
JOSEPH FLINT SMITH
STATE OF UTAH
01.20.12

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project:
TOOELE APPLIED TECHNOLOGY COLLEGE - NEW BUILDING

88 South Tooele Blvd
Tooele, UT 84074

DFCM PROJECT #11064280

project#: 11.0420
date: 1/20/2012

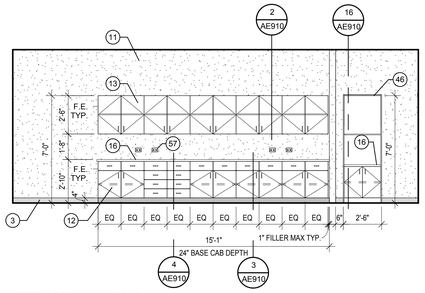
revisions :

Interior Elevations

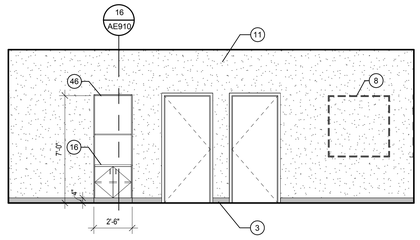
sheet:

AE211

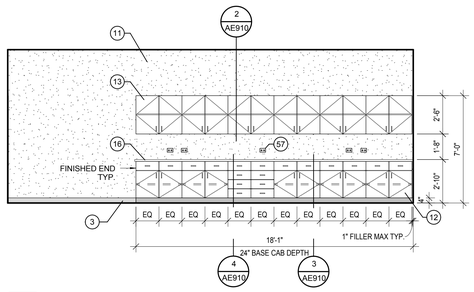
100% Construction Documents



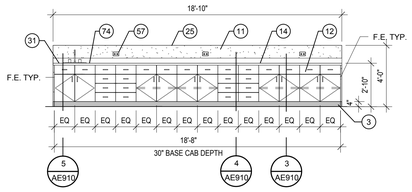
3 A127 North RN Classroom
1/4" = 1'-0"



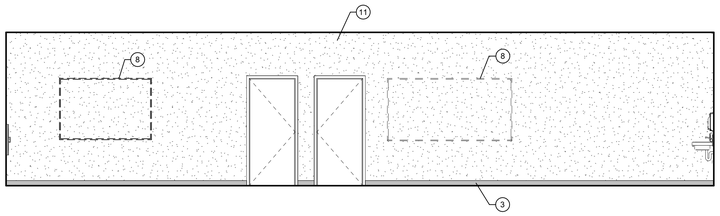
2 A126 South LPN/CNA Classroom
1/4" = 1'-0"



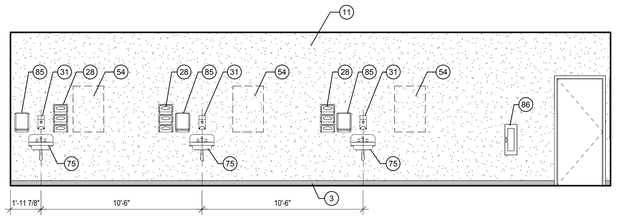
1 A126 North LPN/CNA Classroom
1/4" = 1'-0"



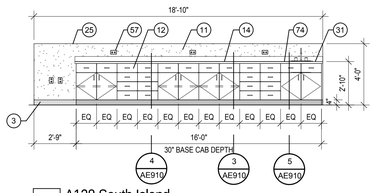
6 A128 North Island
1/4" = 1'-0"



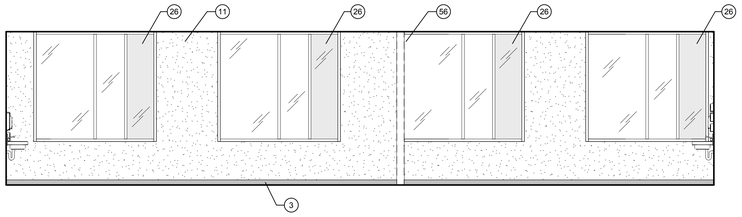
5 A128 East LPN/RN/CNA Lab
1/4" = 1'-0"



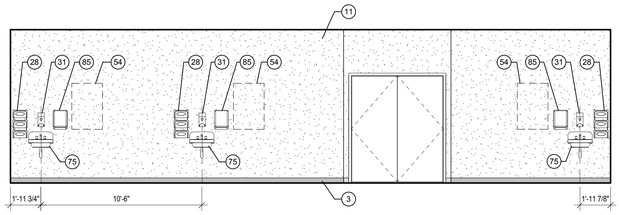
4 A128 North LPN/RN/CNA Lab
1/4" = 1'-0"



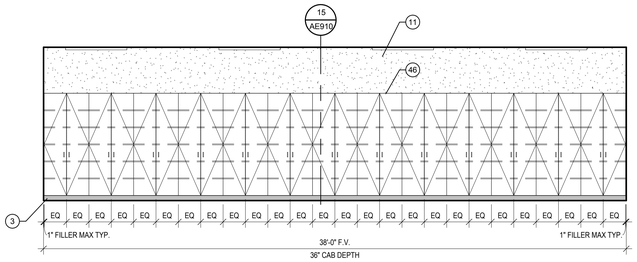
9 A128 South Island
1/4" = 1'-0"



8 A128 West LPN/RN/CNA Lab
1/4" = 1'-0"



7 A128 South LPN/RN/CNA Lab
1/4" = 1'-0"



10 A129 North Storage
1/4" = 1'-0"

KEYNOTE LEGEND

3	BASE AS SPECIFIED
8	WHITE BOARD / TACK BOARD BY OTHERS
11	GWB PAINTED WALL - REFER TO ROOM FINISH SCHEDULE (AE611)
12	PLASTIC LAMINATE BASE CABINET
13	PLASTIC LAMINATE UPPER CABINET
14	PLASTIC LAMINATE COUNTERTOP W/ 4" BACKSPLASH
16	PLASTIC LAMINATE COUNTERTOP W/ NO BACKSPLASH
25	4' H PARTIAL HEIGHT WALL
26	TINTED GLASS
28	LATEX GLOVE DISPENSER - REFER TO ACCESSORY SCHEDULE (AE611)
31	COUNTER MOUNTED SOAP DISPENSOR - REFER TO ACCESSORY SCHEDULE (AE611)
46	PLASTIC LAMINATE TALL CABINETS W/ ADJUSTABLE SHELVING
54	HEADWALL TRAINING SYSTEM - OWNER PROVIDED CONTRACTOR INSTALLED
56	PAINTED METAL STRUCTURE (PNT-9)
57	DATA / ELECTRICAL - REFER TO ELECTRICAL DRWGS
74	RECESSED COUNTER MOUNTED PAPER TOWEL DISPENSER - REFER TO ACCESSORY SCHEDULE (AE611)
75	WALL MOUNTED SINK - REFER TO MECHANICAL DRWGS - REFER TO MOUNTING HEIGHT ELEVATIONS (1/AE901)
85	WALL MOUNTED PAPER TOWEL DISPENSOR
86	SEMI-RECESSED FIRE EXTINGUISHER CABINET

GENERAL NOTES

1 UNLESS NOTED OTHERWISE, SEE SHEET 1/AE901 FOR TYPICAL ACCESSORY MOUNTING HEIGHTS

2 UPPER, LOWER, AND TALL MILLWORK CABINETS NOT TO EXCEED 36" IN WIDTH

3 UNLESS NOTED OTHERWISE, MATCH UPPER CABINET WIDTH DIMENSIONS TO BASE CABINETS - TYP.

4 ALL ELECTRICAL AND DATA OUTLETS ABOVE COUNTER TOPS SHOULD BE MOUNTED HORIZONTALLY

5 PROVIDE SAFETY INSULATION ON ALL EXPOSED SUPPLY WATER LINES AND WASTE LINES.

LICENSED ARCHITECT 6710870 JOSEPH FLINT SMITH STATE OF UTAH
01.20.12

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project:
TOOELE APPLIED TECHNOLOGY COLLEGE - NEW BUILDING

88 South Tooele Blvd
Tooele, UT 84074

DFCM PROJECT #11064280

project#: 11.0420
date: 1/20/2012

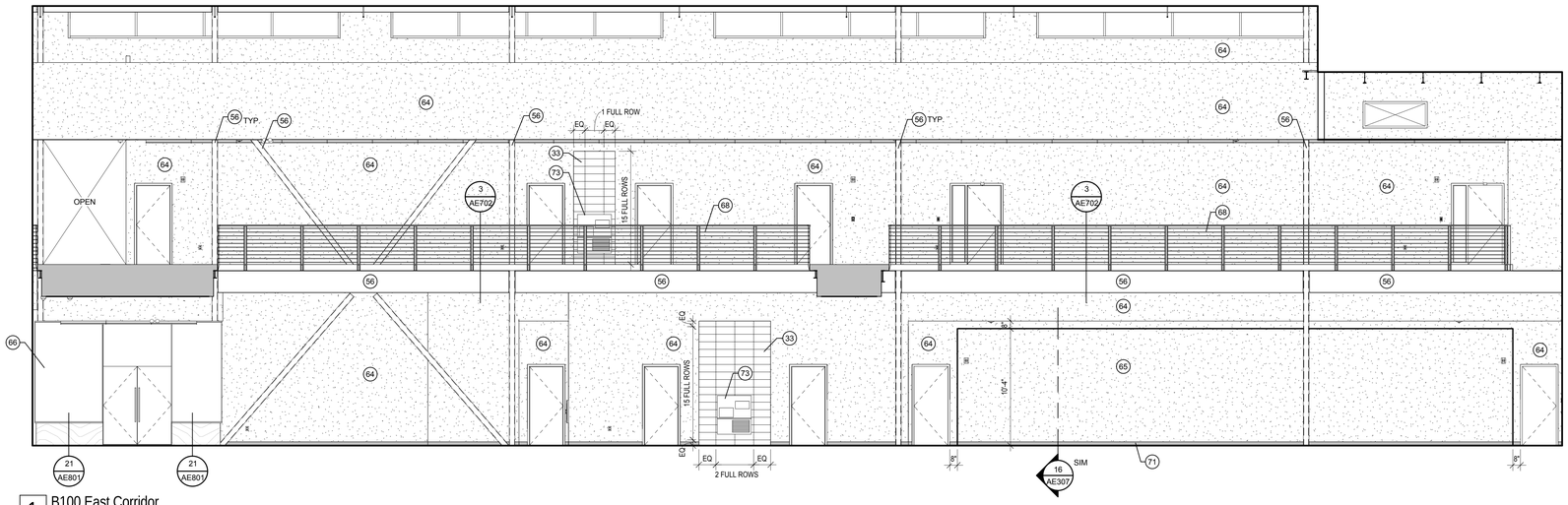
revisions :

Interior Elevations

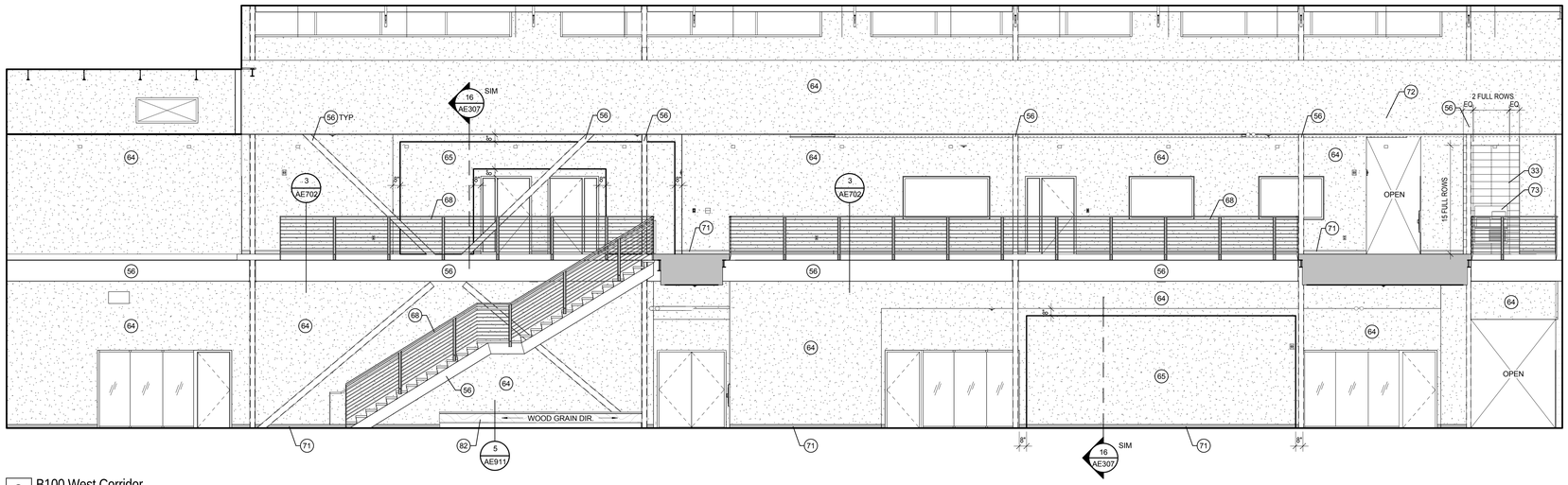
sheet:

AE212

100% Construction Documents



1 B100 East Corridor
3/16" = 1'-0"



2 B100 West Corridor
3/16" = 1'-0"

KEYNOTE LEGEND

33	WALL TILE (T-1) - 8"x20" GRID STACKED
56	PAINTED METAL STRUCTURE (PNT-9)
64	PAINT GWB WALL (PNT-9)
65	PAINT GWB WALL (PNT-6)
66	1/2" CLEAR TEMPERED GLASS - FRAMELESS
68	PAINTED METAL RAILING (PNT-4) W/ HARDWOOD HANDRAIL TO MATCH (WC-1)
71	METAL BASE (MB-1)
72	CEILING PENDENTS - REFER TO ELECTRICAL DRWGS.
73	DRINKING FOUNTAIN - REFER TO MECHANICAL DRWGS.
82	WOOD PLANTER BOX - REFER TO DETAILS

GENERAL NOTES

1. UNLESS NOTED OTHERWISE, SEE SHEET 1/AE901 FOR TYPICAL ACCESSORY MOUNTING HEIGHTS
2. UPPER, LOWER, AND TALL MILLWORK CABINETS NOT TO EXCEED 36" IN WIDTH
3. UNLESS NOTED OTHERWISE, MATCH UPPER CABINET WIDTH DIMENSIONS TO BASE CABINETS - TYP.
4. ALL ELECTRICAL AND DATA OUTLETS ABOVE COUNTER TOPS SHOULD BE MOUNTED HORIZONTALLY
5. PROVIDE SAFETY INSULATION ON ALL EXPOSED SUPPLY WATER LINES AND WASTE LINES.

LICENSED ARCHITECT
6710870
JOSEPH FLINT SMITH
STATE OF UTAH
01.20.12

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DFCM PROJECT #11064280

project#: 11.0420
date: 1/20/2012

revisions :

Interior Elevations

sheet:

AE213

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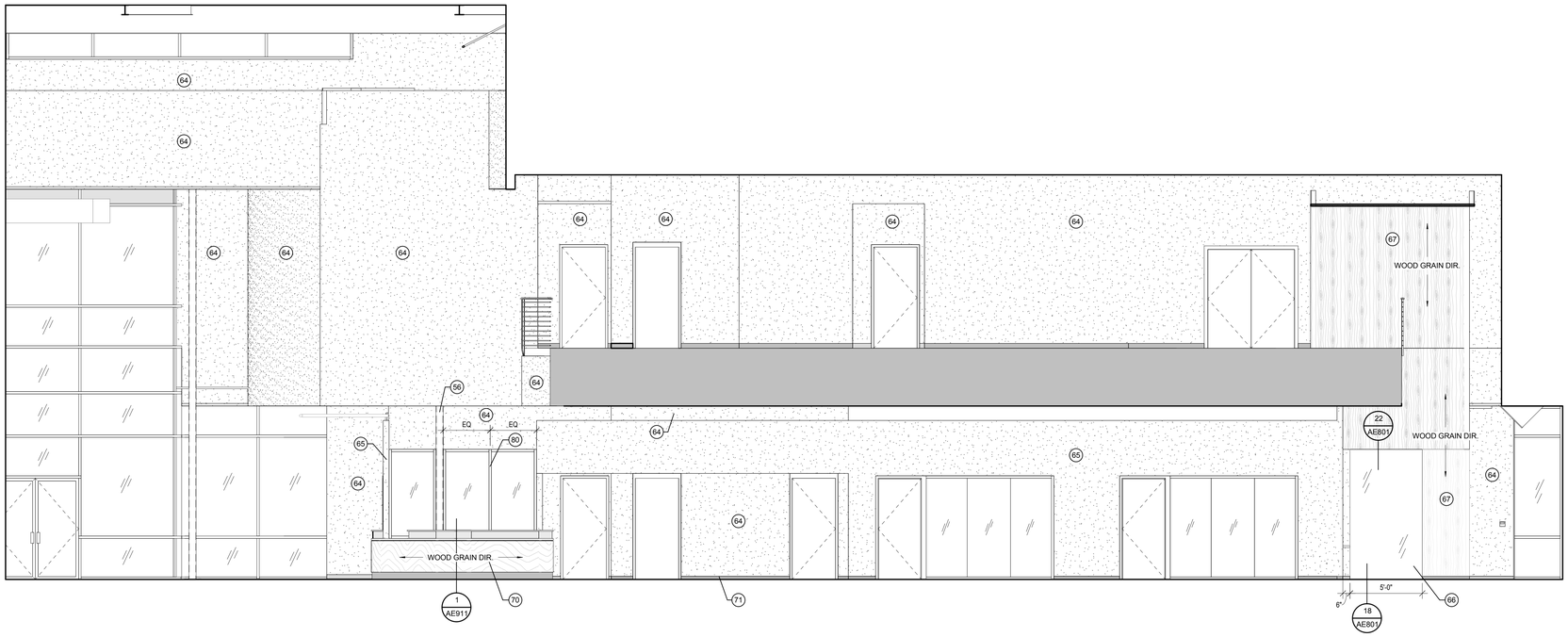
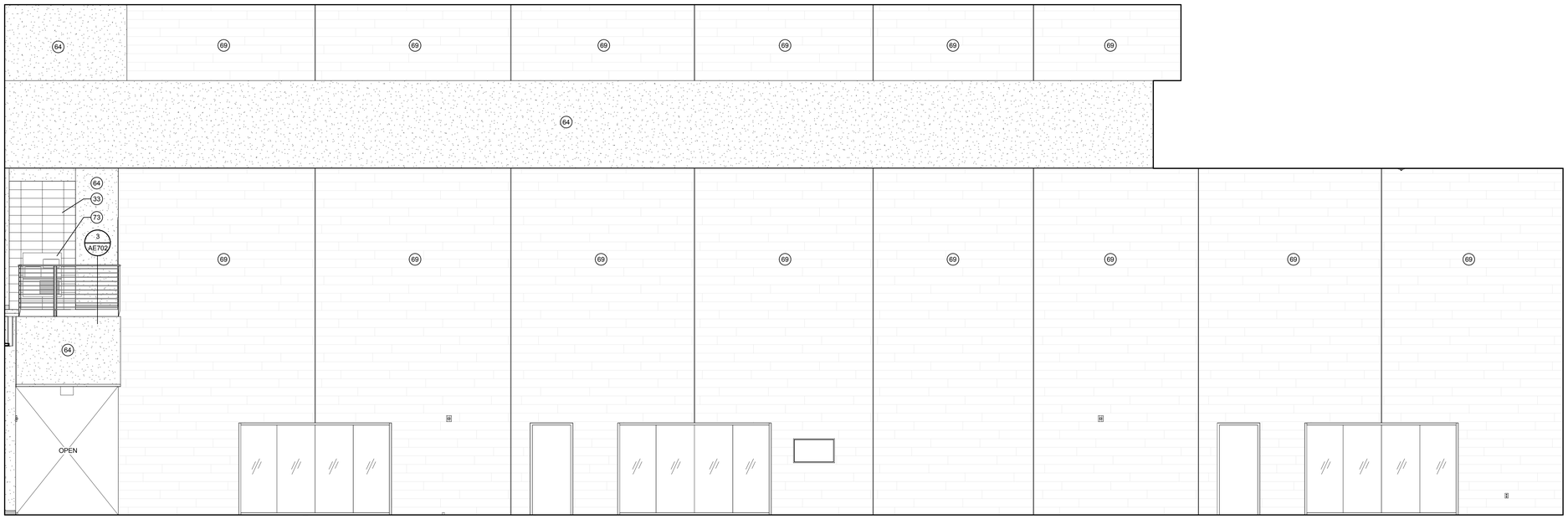


1 B101 North Lobby
1/4" = 1'-0"



2 B101 West Lobby
1/4" = 1'-0"

KEYNOTE LEGEND

33	WALL TILE (T-1) - 8"x20" GRID STACKED
56	PAINTED METAL STRUCTURE (PNT-9)
64	PAINT GWB WALL (PNT-9)
65	PAINT GWB WALL (PNT-6)
66	1/2" CLEAR TEMPERED GLASS - FRAMELESS
67	WOOD VENEER WALL COVERING (WC-1)
69	SEALED TILT-UP PANEL WALL - NO BASE
70	RECEPTION DESK - REFER TO DETAILS
71	METAL BASE (MB-1)
73	DRINKING FOUNTAIN - REFER TO MECHANICAL DRWGS.
80	1/4" GAP @ FRAMELESS GLASS

GENERAL NOTES

1. UNLESS NOTED OTHERWISE, SEE SHEET 1/AE901 FOR TYPICAL ACCESSORY MOUNTING HEIGHTS
2. UPPER, LOWER, AND TALL MILLWORK CABINETS NOT TO EXCEED 36" IN WIDTH
3. UNLESS NOTED OTHERWISE, MATCH UPPER CABINET WIDTH DIMENSIONS TO BASE CABINETS - TYP.
4. ALL ELECTRICAL AND DATA OUTLETS ABOVE COUNTER TOPS SHOULD BE MOUNTED HORIZONTALLY
5. PROVIDE SAFETY INSULATION ON ALL EXPOSED SUPPLY WATER LINES AND WASTE LINES.

LICENSED ARCHITECT
6710870
JOSEPH FLINT SMITH
STATE OF UTAH
01.20.12

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DFCM PROJECT #11064280

project#: 11.0420
date: 1/20/2012

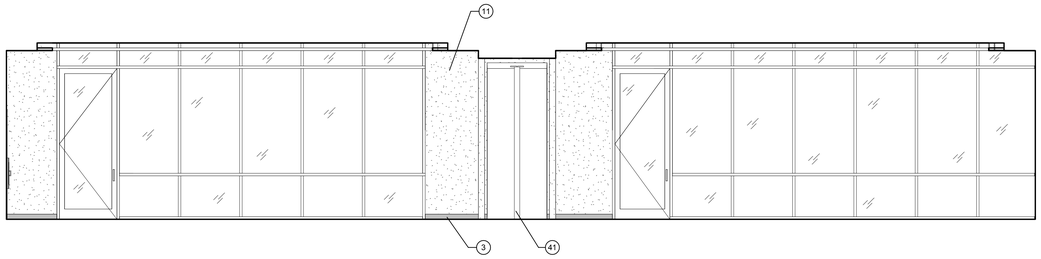
revisions :

Interior Elevations

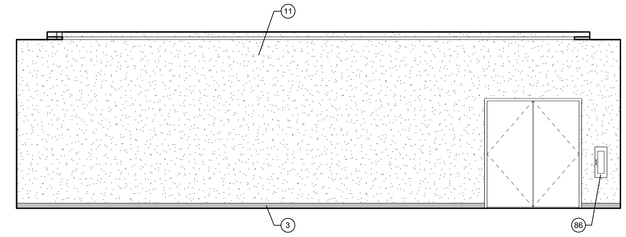
sheet:

AE214

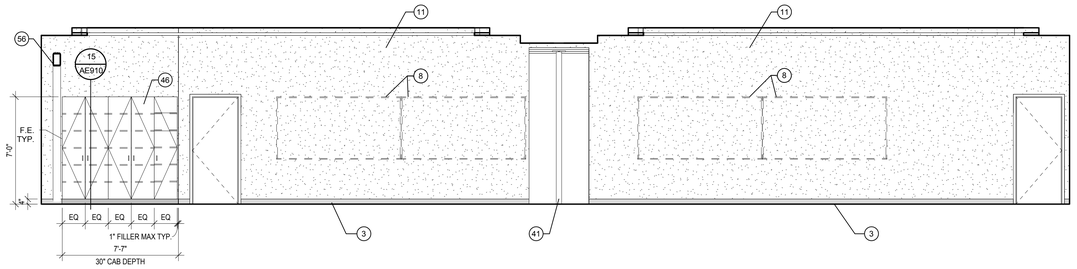
100% Construction Documents



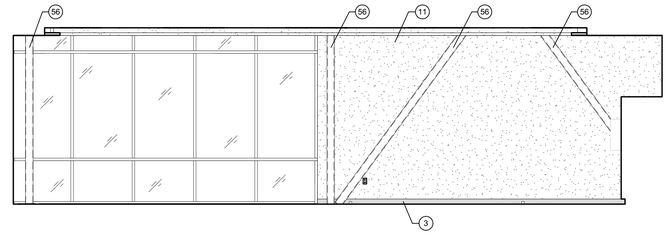
2 B103 East Multipurpose Classroom
1/4" = 1'-0"



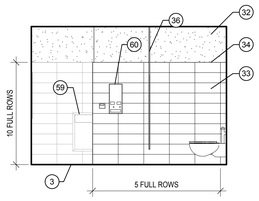
1 B103 North Multipurpose Classroom
1/4" = 1'-0"



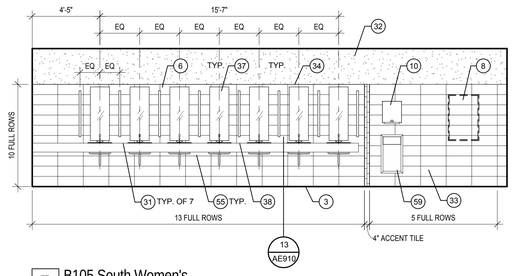
4 B103 West Multipurpose Classroom
1/4" = 1'-0"



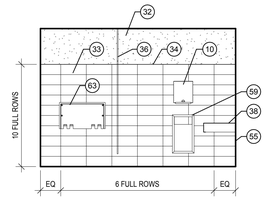
3 B103 South Multipurpose Classroom
1/4" = 1'-0"



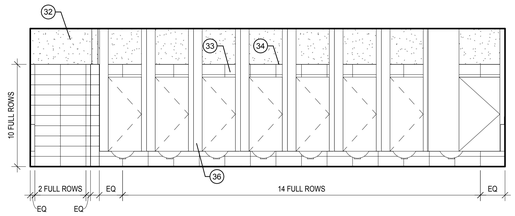
8 B105 West Women's
1/4" = 1'-0"



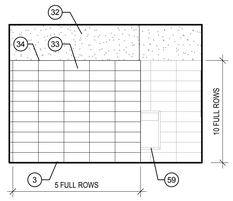
7 B105 South Women's
1/4" = 1'-0"



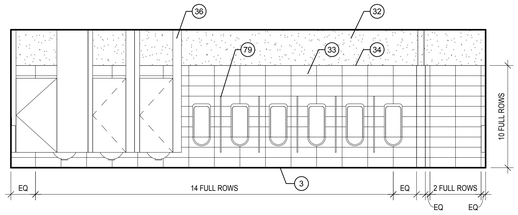
6 B105 East Women's
1/4" = 1'-0"



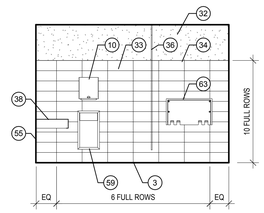
5 B105 North Women's
1/4" = 1'-0"



12 B106 West Men's
1/4" = 1'-0"

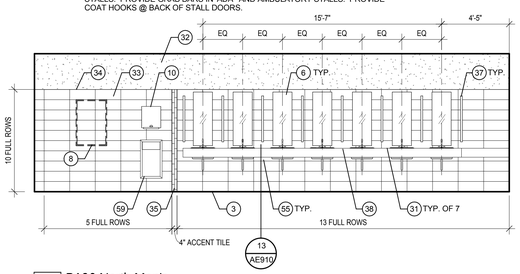


11 B106 South Men's
1/4" = 1'-0"

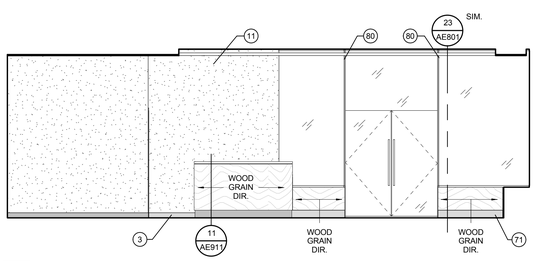


10 B106 East Men's
1/4" = 1'-0"

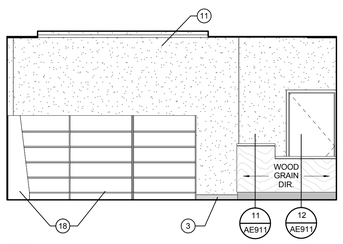
NOTE: PROVIDE SANITARY NAPKIN DISPOSALS IN ALL WOMEN'S STALLS. PROVIDE TOILET PAPER DISPENSERS, AND TOILET SEAT COVER PROTECTORS IN ALL STALLS. PROVIDE GRAB BARS IN 'ADA' AND AMBULATORY STALLS. PROVIDE COAT HOOKS @ BACK OF STALL DOORS.



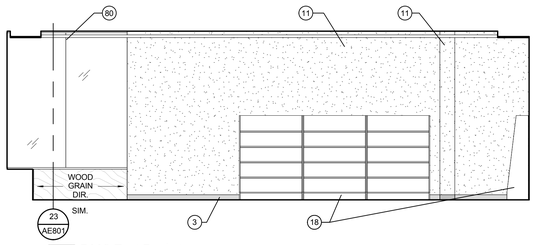
9 B106 North Men's
1/4" = 1'-0"



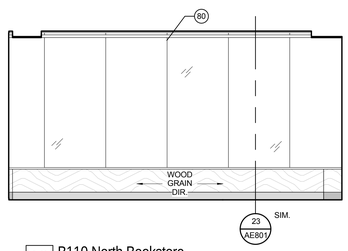
16 B110 West Bookstore
1/4" = 1'-0"



15 B110 South Bookstore
1/4" = 1'-0"



14 B110 East Bookstore
1/4" = 1'-0"



13 B110 North Bookstore
1/4" = 1'-0"

KEYNOTE LEGEND

3	BASE AS SPECIFIED
6	MIRROR - CENTER OVER SINK - REFER TO MOUNTING HEIGHT ELEVATIONS (1/AE901) & ACCESSORY SCHEDULE (AE611)
8	WHITE BOARD / TACK BOARD BY OTHERS
10	AUTOMATIC PAPER TOWEL DISPENSER - REFER TO MOUNTING HEIGHT ELEVATIONS (1/AE901) & ACCESSORY SCHEDULE (AE611)
11	GWB PAINTED WALL - REFER TO ROOM FINISH SCHEDULE (AE611)
18	FURNITURE OR EQUIPMENT BY OTHERS
31	COUNTER MOUNTED SOAP DISPENSOR - REFER TO ACCESSORY SCHEDULE (AE611)
32	PAINT ABOVE TILE (PNT-9)
33	WALL TILE (T-1) - 8"x20" GRID STACKED
34	BULL NOSE EDGE TRIM (T-7)
35	ACCENT TILE - 2"x8" (T-5) - RUN VERTICALLY UP WALL
36	CEILING MOUNTED PLASTIC LAMINATE TOILET PARTITION - PROVIDE BLOCKING IN CEILING AND WALLS - REFER TO ACCESSORY SCHEDULE (AE611)
37	WALL SCONCE - REFER TO ELECTRICAL DRAWINGS
38	STONE COUNTERTOP W/ NO BACKSPLASH
41	CEILING MOUNTED ACOUSTICAL FOLDING PARTITION - REFER TO DETAILS AND SECTIONS
46	PLASTIC LAMINATE TALL CABINETS W/ ADJUSTABLE SHELVING
55	FULLY CONCEALED WORK SURFACE SUPPORTS - 3' O.C.
56	PAINTED METAL STRUCTURE (PNT-9)
59	SEMI-RECESSED TRASH RECEPTACLE - REFER TO MOUNTING HEIGHT ELEVATIONS (1/AE901) & ACCESSORY SCHEDULE (AE611)
60	SANITARY NAPKIN DISPENSOR - REFER TO MOUNTING HEIGHT ELEVATIONS (1/AE901) & ACCESSORY SCHEDULE (AE611)
63	BABY CHANGING STATION - REFER TO ACCESSORY SCHEDULE (AE611)
71	METAL BASE (MB-1)
79	WALL MOUNTED PLASTIC LAMINATE URINAL PARTITION - REFER TO ACCESSORY SCHEDULE (AE611)
80	1/4" GAP @ FRAMELESS GLASS
86	SEMI-RECESSED FIRE EXTINGUISHER CABINET

GENERAL NOTES

1. UNLESS NOTED OTHERWISE, SEE SHEET 1/AE901 FOR TYPICAL ACCESSORY MOUNTING HEIGHTS
2. UPPER, LOWER, AND TALL MILLWORK CABINETS NOT TO EXCEED 36" IN WIDTH
3. UNLESS NOTED OTHERWISE, MATCH UPPER CABINET WIDTH DIMENSIONS TO BASE CABINETS - TYP.
4. ALL ELECTRICAL AND DATA OUTLETS ABOVE COUNTER TOPS SHOULD BE MOUNTED HORIZONTALLY
5. PROVIDE SAFETY INSULATION ON ALL EXPOSED SUPPLY WATER LINES AND WASTE LINES.

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project:
TOOELE APPLIED TECHNOLOGY COLLEGE - NEW BUILDING

88 South Tooele Blvd
Tooele, UT 84074

DFCM PROJECT #11064280

project#: 11.0420
date: 1/20/2012

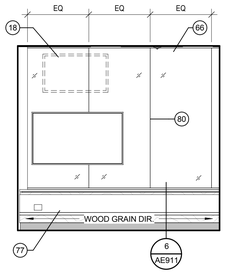
revisions:

Interior Elevations

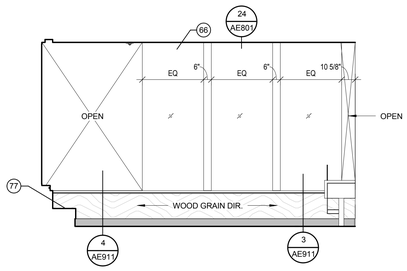
sheet:

AE215

100% Construction Documents



6 B111 South Cafeteria Elevation
1/4" = 1'-0"



5 B111 West Cafeteria Elevation
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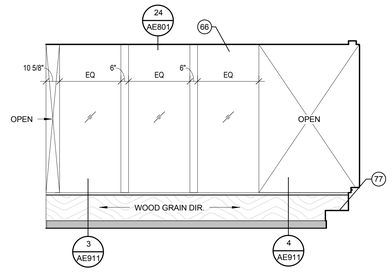
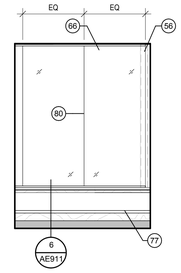


4 Lounge East Elevation
1/4" = 1'-0"



3 Lounge South Elevation
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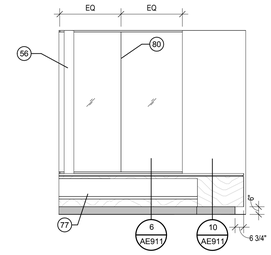
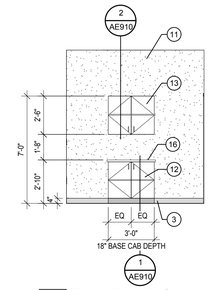
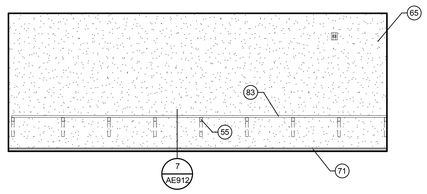


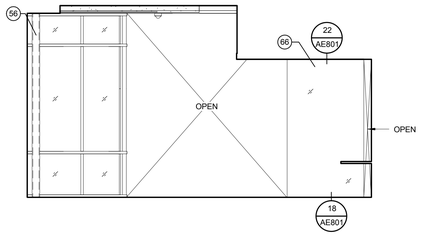
2 Lounge North Elevation
1/4" = 1'-0"



1 B110A East Bookstore Storage
1/4" = 1'-0"



10 B112 West Media
1/4" = 1'-0"



9 B112 South Media
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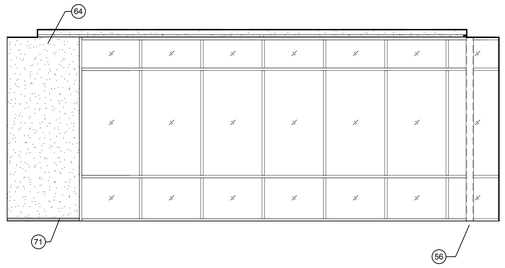
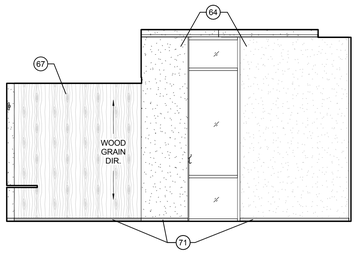
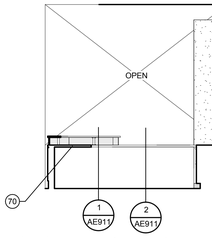


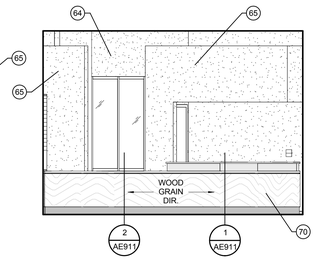
8 B112 East Media
1/4" = 1'-0"



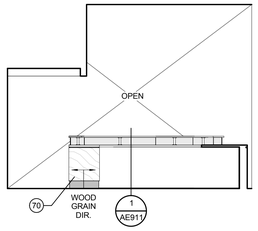
7 B112 North Media
1/4" = 1'-0"



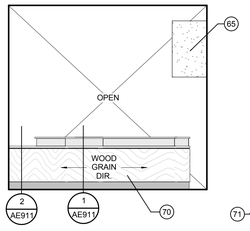
18 B119 South Reception
1/4" = 1'-0"



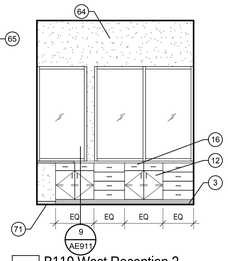
17 B119 North Reception
1/4" = 1'-0"



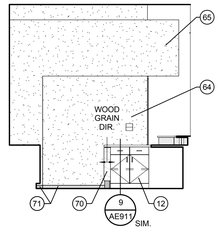
16 B119 East Reception
1/4" = 1'-0"



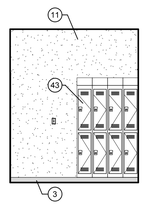
15 B119 West Reception
1/4" = 1'-0"



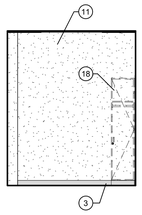
14 B119 West Reception 2
1/4" = 1'-0"



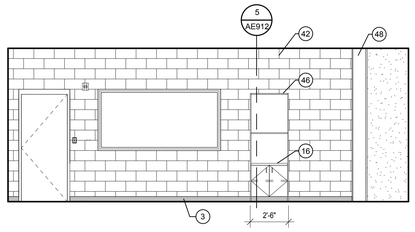
13 B119 North Reception 2
1/4" = 1'-0"



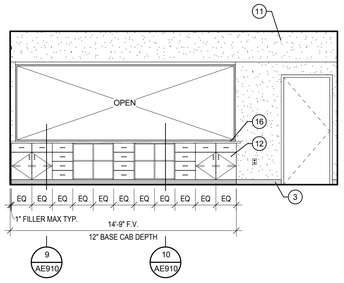
12 B115 West Office
1/4" = 1'-0"



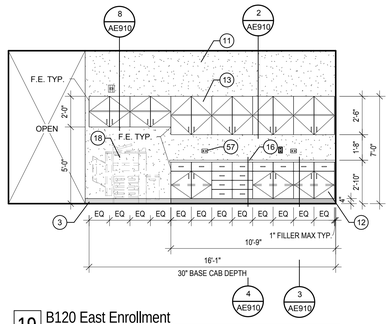
11 B115 East Office
1/4" = 1'-0"



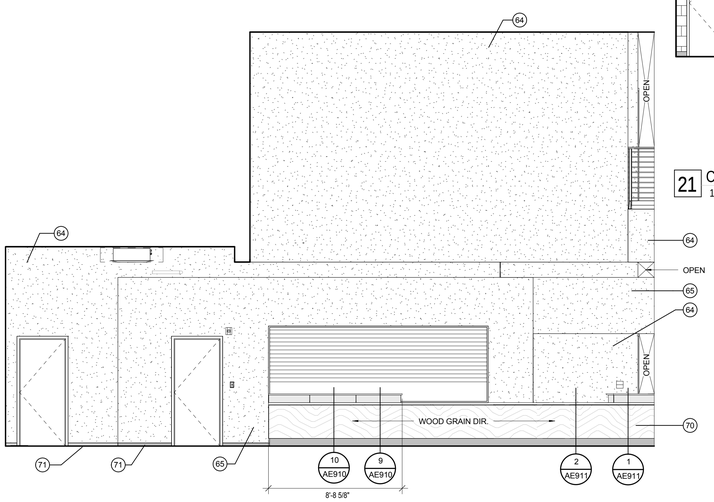
21 C104 North Construction Technology Classroom
1/4" = 1'-0"



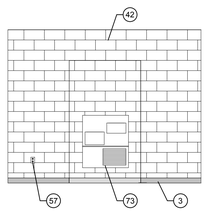
20 B120 West Enrollment
1/4" = 1'-0"



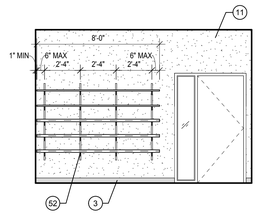
19 B120 East Enrollment
1/4" = 1'-0"



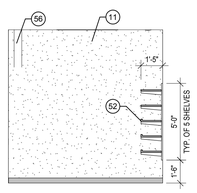
25 B121 East Enrolment Waiting
1/4" = 1'-0"



24 C100B North Cooridor
1/4" = 1'-0"



23 B124 South Storage / Student Records
1/4" = 1'-0"



22 B124 East Storage / Student Records
1/4" = 1'-0"

KEYNOTE LEGEND

3	BASE AS SPECIFIED
9	COAT HOOK - REFER TO ACCESSORY SCHEDULE (AE611)
11	GWB PAINTED WALL - REFER TO ROOM FINISH SCHEDULE (AE611)
12	PLASTIC LAMINATE BASE CABINET
13	PLASTIC LAMINATE UPPER CABINET
16	PLASTIC LAMINATE COUNTERTOP W/ NO BACKSPLASH
18	FURNITURE OR EQUIPMENT BY OTHERS
42	PAINTED CMU - REFER TO FINISH SCHEDULE (AE611)
43	PLASTIC LAMINATE PARTIAL HEIGHT LOCKERS - REFER TO ACCESSORY SCHEDULE (AE611)
46	PLASTIC LAMINATE TALL CABINETS W/ ADJUSTABLE SHELVING
48	SEALED CONCRETE TILT-UP WALL PANEL- REFER TO FINISH SCHEDULE (AE611)
52	WALL MOUNTED ADJUSTABLE SHELVING - SEE ELEVATIONS FOR SHELF DEPTH - SHELVES TO BE 3/4" MDF W/ WHITE MELAMINE ON BOTH SIDES AND WHITE RUBBER EDGE BANDING ON ALL (4) EDGES TYP. - SHELVES TO BE SUPPORTED BY REEVE 761 OR EQUAL (WHITE) - BOTTOM (3) SHELVES IN JANITOR ROOMS SHALL HAVE 1 1/2" H LIP
55	FULLY CONCEALED WORK SURFACE SUPPORTS - 3' O.C.
56	PAINTED METAL STRUCTURE (PNT-9)
57	DATA / ELECTRICAL - REFER TO ELECTRICAL DRWGS
64	PAINT GWB WALL (PNT-9)
65	PAINT GWB WALL (PNT-6)
66	1/2" CLEAR TEMPERED GLASS - FRAMELESS
67	WOOD VENEER WALL COVERING (WC-1)
70	RECEPTION DESK - REFER TO DETAILS
71	METAL BASE (MB-1)
73	DRINKING FOUNTAIN - REFER TO MECHANICAL DRWGS.
77	UPHOLSTERED BENCH
80	1/4" GAP @ FRAMELESS GLASS
83	WOOD VENEER (WV-1) - COMPUTER COUNTER

GENERAL NOTES

1. UNLESS NOTED OTHERWISE, SEE SHEET 1/AE901 FOR TYPICAL ACCESSORY MOUNTING HEIGHTS
2. UPPER, LOWER, AND TALL MILLWORK CABINETS NOT TO EXCEED 36" IN WIDTH
3. UNLESS NOTED OTHERWISE, MATCH UPPER CABINET WIDTH DIMENSIONS TO BASE CABINETS - TYP.
4. ALL ELECTRICAL AND DATA OUTLETS ABOVE COUNTER TOPS SHOULD BE MOUNTED HORIZONTALLY
5. PROVIDE SAFETY INSULATION ON ALL EXPOSED SUPPLY WATER LINES AND WASTE LINES.

LICENSED ARCHITECT
6710870
JOSEPH FLINT SMITH
STATE OF UTAH
01.20.12

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METHOD STUDIO INC.
925 south west temple
salt lake city, utah 84101
phone:(801) 532-4422

consultants:

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project:
TOOELE APPLIED TECHNOLOGY COLLEGE - NEW BUILDING

88 South Tooele Blvd
Tooele, UT 84074

DFCM PROJECT #11064280

project#: 11.0420
date: 1/20/2012

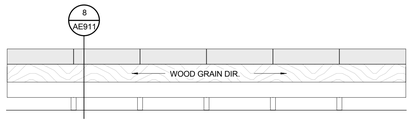
revisions :

Interior Elevations

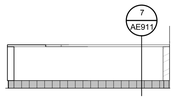
sheet:

AE216

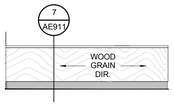
100% Construction Documents



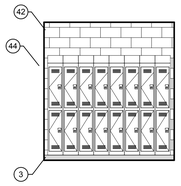
13 Cafeteria Bar South Elevation
1/4" = 1'-0"



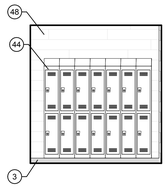
14 Kitchen Service Counter West Elevation
1/4" = 1'-0"



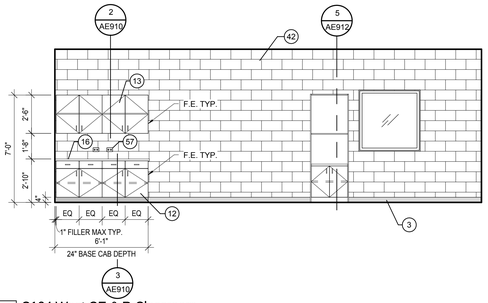
15 Kitchen Service Counter East Elevation
1/4" = 1'-0"



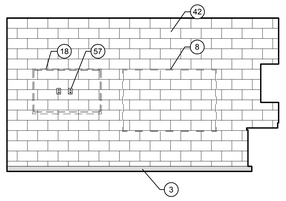
2 C117 West Locker
1/4" = 1'-0"



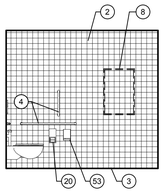
1 C117 East Locker
1/4" = 1'-0"



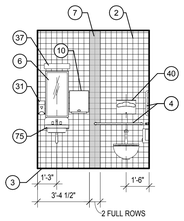
8 C124 West CE & R Classroom
1/4" = 1'-0"



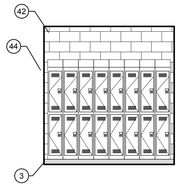
7 C124 South CE & R Classroom
1/4" = 1'-0"



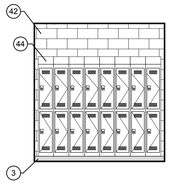
6 C120 South Toilet
1/4" = 1'-0"



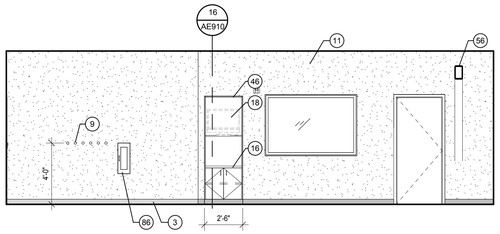
5 C120 East Toilet
1/4" = 1'-0"



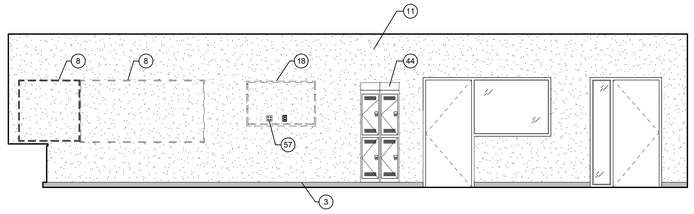
4 C119 West Locker
1/4" = 1'-0"



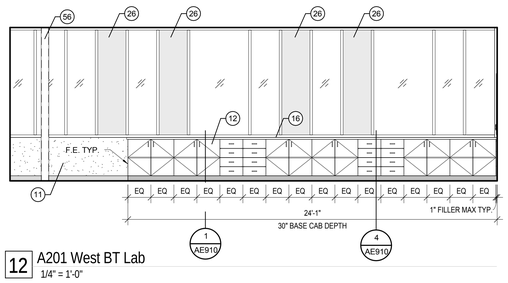
3 C119 East Locker
1/4" = 1'-0"



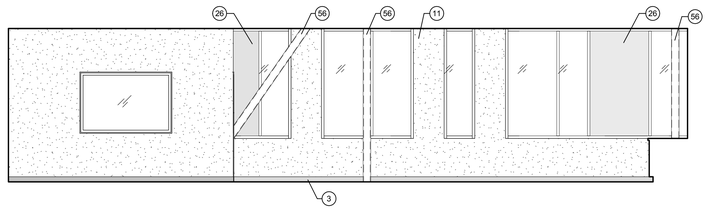
10 A201 East BT Lab
1/4" = 1'-0"



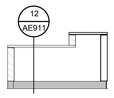
9 A201 North BT Lab
1/4" = 1'-0"



12 A201 West BT Lab
1/4" = 1'-0"

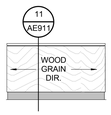


11 A201 South BT Lab
1/4" = 1'-0"

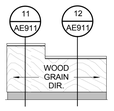


16 Bookstore Service Counter South Elevation
1/4" = 1'-0"

17 Bookstore Service Counter West Elevation
1/4" = 1'-0"



18 Bookstore Service Counter East Elevation
1/4" = 1'-0"



19 Bookstore Service Counter North Elevation
1/4" = 1'-0"

KEYNOTE LEGEND

2	4x4 CERAMIC TILE (T-3)
3	BASE AS SPECIFIED
4	GRAB BAR - REFER TO MOUNTING HEIGHT ELEVATIONS (1/AE901), & ACCESSORY SCHEDULE (AE611)
6	MIRROR - CENTER OVER SINK - REFER TO MOUNTING HEIGHT ELEVATIONS (1/AE901) & ACCESSORY SCHEDULE (AE611)
7	TILE ACCENT (T-4) - TWO (2) FULL ROWS
8	WHITE BOARD / TACK BOARD BY OTHERS
9	COAT HOOK - REFER TO ACCESSORY SCHEDULE (AE611)
10	AUTOMATIC PAPER TOWEL DISPENSER - REFER TO MOUNTING HEIGHT ELEVATIONS (1/AE901) & ACCESSORY SCHEDULE (AE611)
11	GWB PAINTED WALL - REFER TO ROOM FINISH SCHEDULE (AE611)
12	PLASTIC LAMINATE BASE CABINET
13	PLASTIC LAMINATE UPPER CABINET
16	PLASTIC LAMINATE COUNTERTOP W/ NO BACKSPLASH
18	FURNITURE OR EQUIPMENT BY OTHERS
20	TOILET PAPER DISPENSOR - REFER TO MOUNTING HEIGHT ELEVATIONS (1/AE901) & ACCESSORY SCHEDULE (AE611)
26	TINTED GLASS
31	COUNTER MOUNTED SOAP DISPENSOR - REFER TO ACCESSORY SCHEDULE (AE611)
37	WALL SCONCE - REFER TO ELECTRICAL DRAWINGS
40	SEAT COVER DISPENSER - CENTER OVER TOILET - REFER TO MOUNTING HEIGHT ELEVATIONS (1/AE901) & ACCESSORY SCHEDULE (AE611)
42	PAINTED CMU - REFER TO FINISH SCHEDULE (AE611)
44	METAL PARTIAL HEIGHT VENTED LOCKERS - HARDWARE FOR PADLOCKS
46	PLASTIC LAMINATE TALL CABINETS W/ ADJUSTABLE SHELVING
48	SEALED CONCRETE TILT-UP WALL PANEL- REFER TO FINISH SCHEDULE (AE611)
53	SANITARY NAPKIN DISPOSAL - REFER TO MOUNTING HEIGHT ELEVATIONS (1/AE901) & ACCESSORY SCHEDULE (AE611)
56	PAINTED METAL STRUCTURE (PNT-9)
57	DATA / ELECTRICAL - REFER TO ELECTRICAL DRWGS
75	WALL MOUNTED SINK - REFER TO MECHANICAL DRWGS - REFER TO MOUNTING HEIGHT ELEVATIONS (1/AE901)
76	MECHANICAL EQUIPMENT - REFER TO MECHANICAL DRWGS.
86	SEMI-RECESSED FIRE EXTINGUISHER CABINET

GENERAL NOTES

1 UNLESS NOTED OTHERWISE, SEE SHEET 1/AE901 FOR TYPICAL ACCESSORY MOUNTING HEIGHTS

2 UPPER, LOWER, AND TALL MILLWORK CABINETS NOT TO EXCEED 36" IN WIDTH

3 UNLESS NOTED OTHERWISE, MATCH UPPER CABINET WIDTH DIMENSIONS TO BASE CABINETS - TYP.

4 ALL ELECTRICAL AND DATA OUTLETS ABOVE COUNTER TOPS SHOULD BE MOUNTED HORIZONTALLY

5 PROVIDE SAFETY INSULATION ON ALL EXPOSED SUPPLY WATER LINES AND WASTE LINES.

LICENSED ARCHITECT
6710870
JOSEPH FLINT SMITH
STATE OF UTAH
01.20.12

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project:
TOOELE APPLIED TECHNOLOGY COLLEGE - NEW BUILDING

88 South Tooele Blvd
Tooele, UT 84074

DFCM PROJECT #11064280

project#: 11.0420
date: 1/20/2012

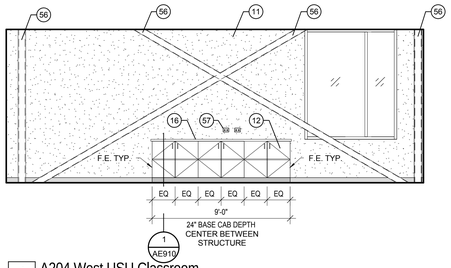
revisions :

Interior Elevations

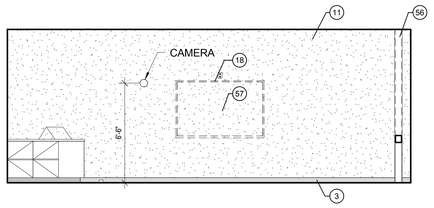
sheet:

AE217

100% Construction Documents



4 A204 West USU Classroom
1/4" = 1'-0"



3 A204 South USU Classroom
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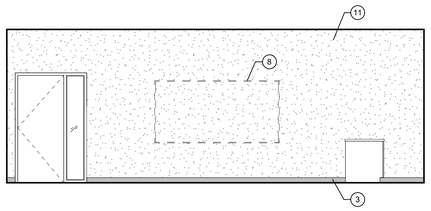
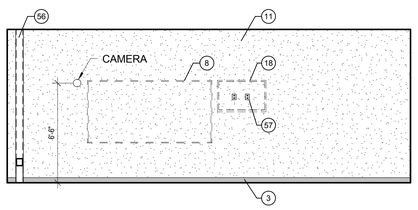
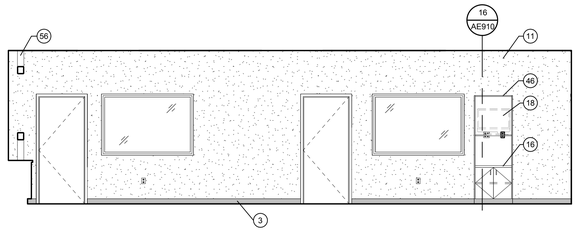


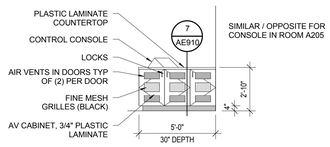
2 A204 East USU Classroom
1/4" = 1'-0"



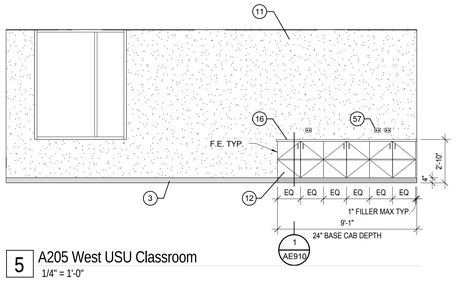
1 A204 North USU Classroom
1/4" = 1'-0"



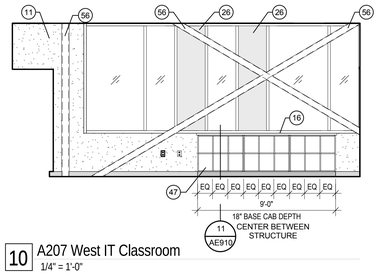
7 A207 North IT Classroom
1/4" = 1'-0"



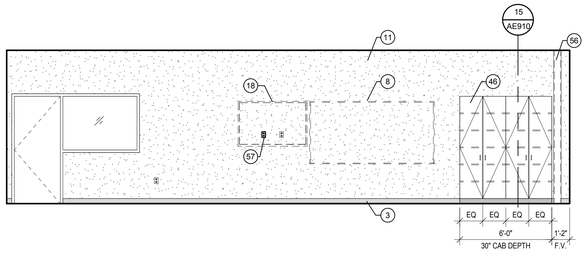
6 A204 USU Projector Console
1/4" = 1'-0"



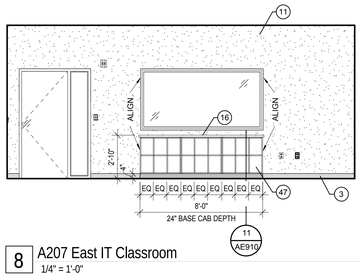
5 A205 West USU Classroom
1/4" = 1'-0"



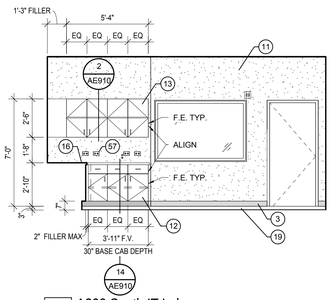
10 A207 West IT Classroom
1/4" = 1'-0"



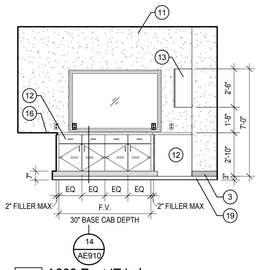
9 A207 South IT Classroom
1/4" = 1'-0"



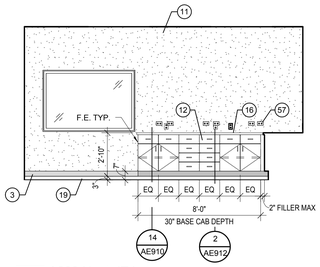
8 A207 East IT Classroom
1/4" = 1'-0"



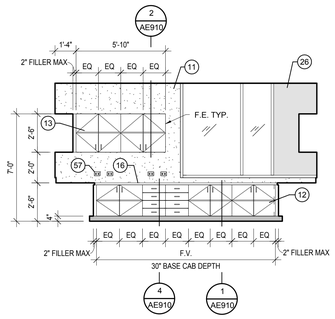
13 A209 South IT Lab
1/4" = 1'-0"



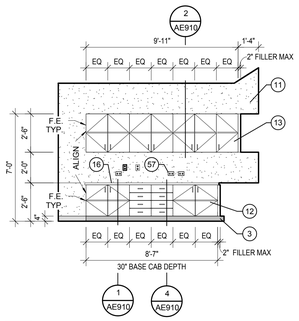
12 A209 East IT Lab
1/4" = 1'-0"



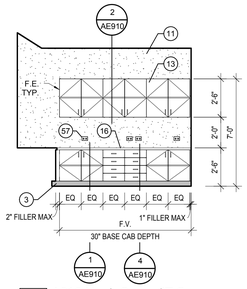
11 A209 North IT Lab
1/4" = 1'-0"



16 A210 West Server/IT Storage
1/4" = 1'-0"



15 A210 South Server/IT Storage
1/4" = 1'-0"



14 A210 North Server/IT Storage
1/4" = 1'-0"

KEYNOTE LEGEND

3	BASE AS SPECIFIED
8	WHITE BOARD / TACK BOARD BY OTHERS
11	GWB PAINTED WALL - REFER TO ROOM FINISH SCHEDULE (AE611)
12	PLASTIC LAMINATE BASE CABINET
13	PLASTIC LAMINATE UPPER CABINET
16	PLASTIC LAMINATE COUNTERTOP W/ NO BACKSPLASH
18	FURNITURE OR EQUIPMENT BY OTHERS
19	RAISED FLOORING (SCF-1) - REFER TO FURNITURE SPECIFICATIONS FOR RAISED FLOORING INFORMATION
26	TINTED GLASS
46	PLASTIC LAMINATE TALL CABINETS W/ ADJUSTABLE SHELVING
47	PLASTIC LAMINATE CUBBIES
56	PAINTED METAL STRUCTURE (PNT-9)
57	DATA / ELECTRICAL - REFER TO ELECTRICAL DRWGS

GENERAL NOTES

1 UNLESS NOTED OTHERWISE, SEE SHEET 1/AE901 FOR TYPICAL ACCESSORY MOUNTING HEIGHTS

2 UPPER, LOWER, AND TALL MILLWORK CABINETS NOT TO EXCEED 36" IN WIDTH

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4 ALL ELECTRICAL AND DATA OUTLETS ABOVE COUNTER TOPS SHOULD BE MOUNTED HORIZONTALLY

5 PROVIDE SAFETY INSULATION ON ALL EXPOSED SUPPLY WATER LINES AND WASTE LINES.

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JOSEPH FLINT SMITH
STATE OF UTAH
01.20.12

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project:
TOOELE APPLIED TECHNOLOGY COLLEGE - NEW BUILDING

88 South Tooele Blvd
Tooele, UT 84074

DFCM PROJECT #11064280

project#: 11.0420
date: 1/20/2012

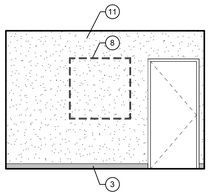
revisions :

Interior Elevations

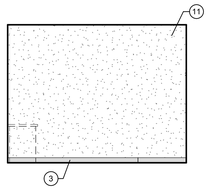
sheet:

AE218

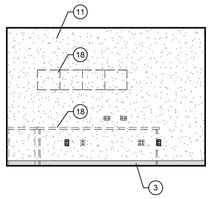
100% Construction Documents



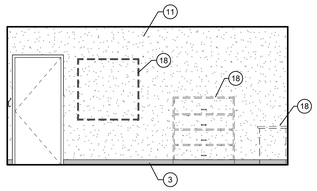
6 A212 South IT Assistant
1/4" = 1'-0"



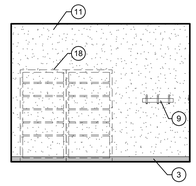
5 A212 East IT Assistant
1/4" = 1'-0"



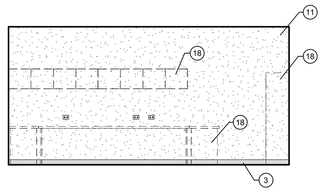
4 A212 North IT Assistant
1/4" = 1'-0"



3 A211 South IT Admin
1/4" = 1'-0"

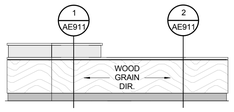


2 A211 East IT Admin
1/4" = 1'-0"



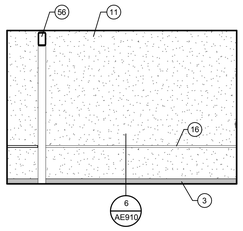
1 A211 North IT Admin
1/4" = 1'-0"

11 Level 2 Reception South Elevation
1/4" = 1'-0"

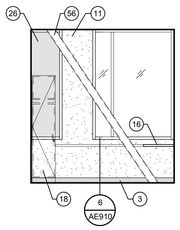


10 Level 2 Reception West Elevation
1/4" = 1'-0"

9 Level 2 Reception North Elevation
1/4" = 1'-0"



8 B202 West Curriculum Developer
1/4" = 1'-0"



7 B202 South Curriculum Developer
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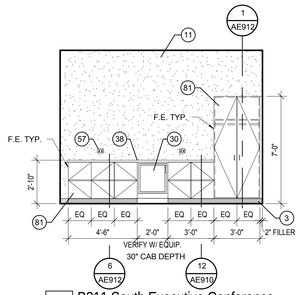
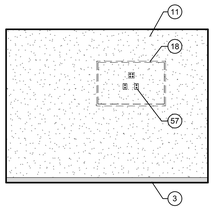
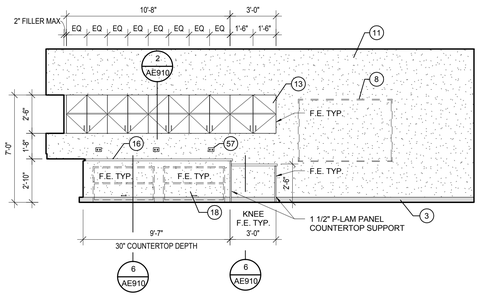


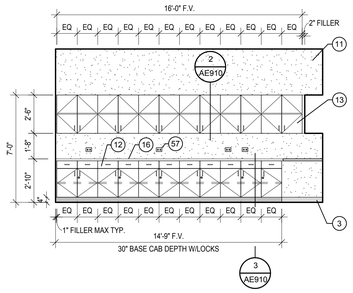
13 B211 South Executive Conference
1/4" = 1'-0"



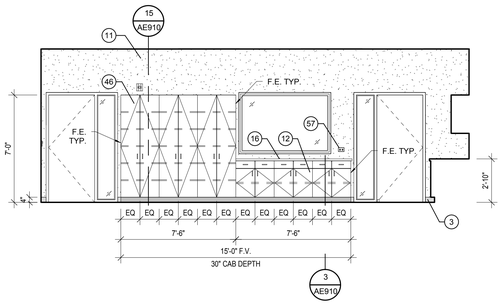
12 B211 North Executive Conference
1/4" = 1'-0"



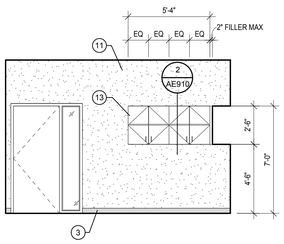
16 B214 West Marketing / Office
1/4" = 1'-0"



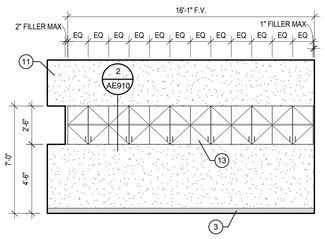
15 B214 South Marketing / Office
1/4" = 1'-0"



14 B214 East Marketing / Office
1/4" = 1'-0"



21 B216 West Open Office
1/4" = 1'-0"



20 B216 North Open Office
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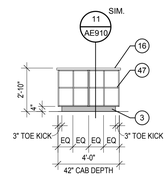

19 B214 South Island Marketing / Office
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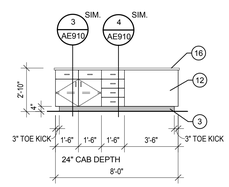
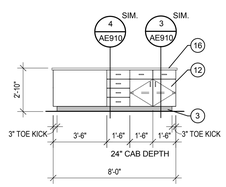


18 B214 West Island Marketing / Office
1/4" = 1'-0"



17 B214 East Island Marketing / Office
1/4" = 1'-0"

KEYNOTE LEGEND

3	BASE AS SPECIFIED
8	WHITE BOARD / TACK BOARD BY OTHERS
9	COAT HOOK - REFER TO ACCESSORY SCHEDULE (AE611)
11	GWB PAINTED WALL - REFER TO ROOM FINISH SCHEDULE (AE611)
12	PLASTIC LAMINATE BASE CABINET
13	PLASTIC LAMINATE UPPER CABINET
16	PLASTIC LAMINATE COUNTERTOP W/ NO BACKSPLASH
18	FURNITURE OR EQUIPMENT BY OTHERS
26	TINTED GLASS
30	UNDER COUNTER REFRIGERATOR - OWNER PROVIDED CONTRACTOR INSTALLED
38	STONE COUNTERTOP W/ NO BACKSPLASH
46	PLASTIC LAMINATE TALL CABINETS W/ ADJUSTABLE SHELVING
47	PLASTIC LAMINATE CUBBIES
56	PAINTED METAL STRUCTURE (PNT-9)
57	DATA / ELECTRICAL - REFER TO ELECTRICAL DRWGS
81	WOOD VENEER CABINET (WC-1)

GENERAL NOTES

1. UNLESS NOTED OTHERWISE, SEE SHEET 1/AE901 FOR TYPICAL ACCESSORY MOUNTING HEIGHTS
2. UPPER, LOWER, AND TALL MILLWORK CABINETS NOT TO EXCEED 36" IN WIDTH
3. UNLESS NOTED OTHERWISE, MATCH UPPER CABINET WIDTH DIMENSIONS TO BASE CABINETS - TYP.
4. ALL ELECTRICAL AND DATA OUTLETS ABOVE COUNTER TOPS SHOULD BE MOUNTED HORIZONTALLY
5. PROVIDE SAFETY INSULATION ON ALL EXPOSED SUPPLY WATER LINES AND WASTE LINES.

LICENSED ARCHITECT
6710870
JOSEPH FLINT SMITH
STATE OF UTAH
01.20.12

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METHOD STUDIO INC.
925 south west temple
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project:
TOOELE APPLIED TECHNOLOGY COLLEGE - NEW BUILDING

88 South Tooele Blvd
Tooele, UT 84074

DFCM PROJECT #11064280

project#: 11.0420
date: 1/20/2012

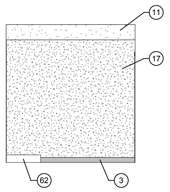
revisions:

Interior Elevations

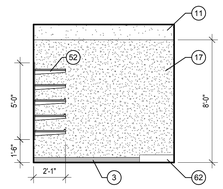
sheet:

AE219

100% Construction Documents



6 B219 South Janitor
1/4" = 1'-0"



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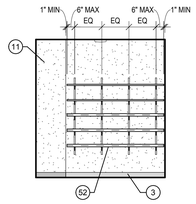

4 B219 North Janitor
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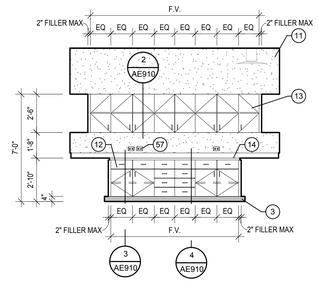
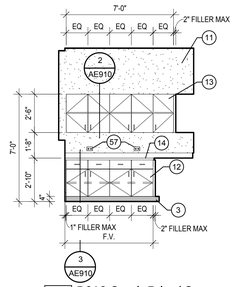
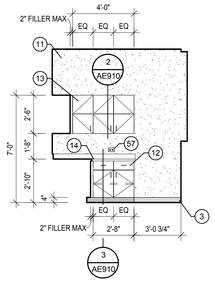


3 B218 West Print / Storage
1/4" = 1'-0"



2 B218 South Print / Storage
1/4" = 1'-0"



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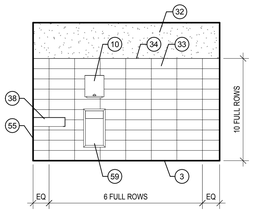
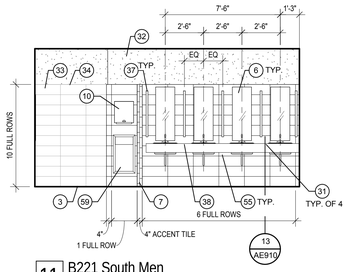
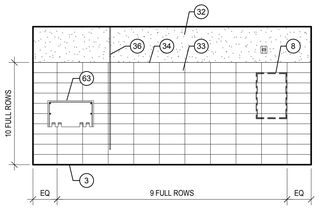
1/4" = 1'-0"



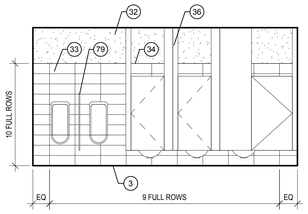
12 B221 West Men
1/4" = 1'-0"



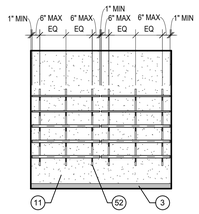
11 B221 South Men
1/4" = 1'-0"



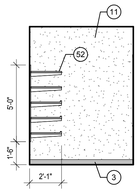
10 B221 East Men
1/4" = 1'-0"



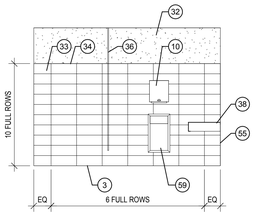
9 B221 North Men
1/4" = 1'-0"



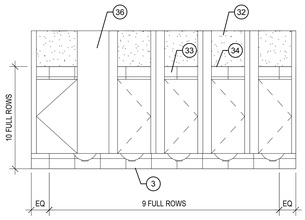
8 B220 West Storage
1/4" = 1'-0"



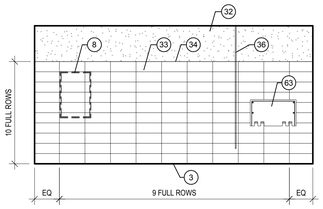
7 B220 North Storage
1/4" = 1'-0"



16 B222 West Women
1/4" = 1'-0"



15 B222 South Women
1/4" = 1'-0"



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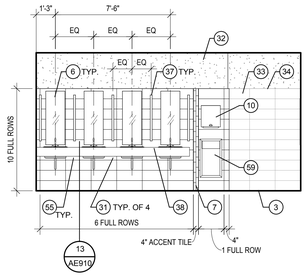
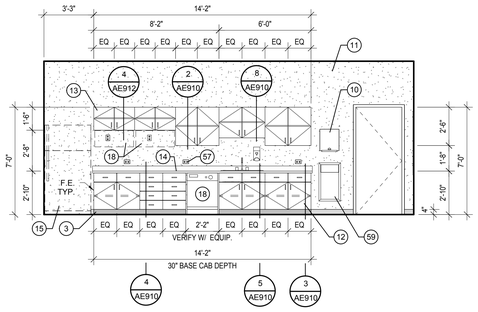
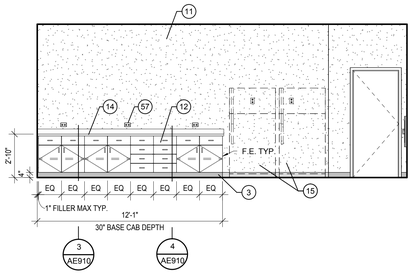
1/4" = 1'-0"



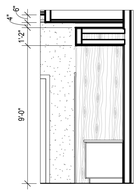
13 B222 North Women
1/4" = 1'-0"



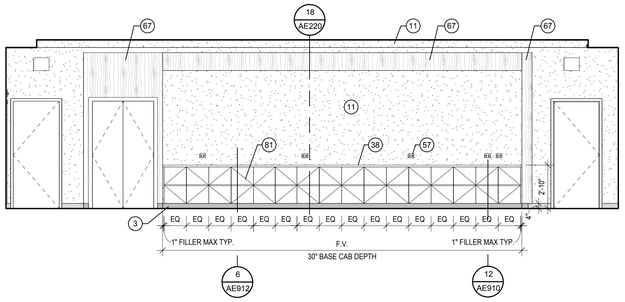
20 B225 West Kitchen
1/4" = 1'-0"



19 B225 East Kitchen
1/4" = 1'-0"



18 Casewoork Section
1/4" = 1'-0"



17 B224 West Boardroom
1/4" = 1'-0"

KEYNOTE LEGEND

3	BASE AS SPECIFIED
6	MIRROR - CENTER OVER SINK - REFER TO MOUNTING HEIGHT ELEVATIONS (1/AE901) & ACCESSORY SCHEDULE (AE611)
7	TILE ACCENT (T-4) - TWO (2) FULL ROWS
8	WHITE BOARD / TACK BOARD BY OTHERS
10	AUTOMATIC PAPER TOWEL DISPENSER - REFER TO MOUNTING HEIGHT ELEVATIONS (1/AE901) & ACCESSORY SCHEDULE (AE611)
11	GWB PAINTED WALL - REFER TO ROOM FINISH SCHEDULE (AE611)
12	PLASTIC LAMINATE BASE CABINET
13	PLASTIC LAMINATE UPPER CABINET
14	PLASTIC LAMINATE COUNTERTOP W/ 4" BACKSPLASH
15	FULL SIZE REFRIGERATOR - BY OTHERS
17	WAINSCOT WALL PROTECTION (WP-1)
18	FURNITURE OR EQUIPMENT BY OTHERS
31	COUNTER MOUNTED SOAP DISPENSOR - REFER TO ACCESSORY SCHEDULE (AE611)
32	PAINT ABOVE TILE (PNT-9)
33	WALL TILE (T-1) - 8"x20" GRID STACKED
34	BULL NOSE EDGE TRIM (T-7)
36	CEILING MOUNTED PLASTIC LAMINATE TOILET PARTITION - PROVIDE BLOCKING IN CEILING AND WALLS - REFER TO ACCESSORY SCHEDULE (AE611)
37	WALL SCONCE - REFER TO ELECTRICAL DRAWINGS
38	STONE COUNTERTOP W/ NO BACKSPLASH
52	WALL MOUNTED ADJUSTABLE SHELVING - SEE ELEVATIONS FOR SHELF DEPTH - SHELVES TO BE 3/4" MDF W/ WHITE MELAMINE ON BOTH SIDES AND WHITE RUBBER EDGE BANDING ON ALL (4) EDGES TYP. - SHELVES TO BE SUPPORTED BY REEVE 761 OR EQUAL (WHITE) - BOTTOM (3) SHELVES IN JANITOR ROOMS SHALL HAVE 1 1/2" H LIP
55	FULLY CONCEALED WORK SURFACE SUPPORTS - 3' O.C.
57	DATA / ELECTRICAL - REFER TO ELECTRICAL DRWGS
59	SEMI-RECESSED TRASH RECEPTACLE - REFER TO MOUNTING HEIGHT ELEVATIONS (1/AE901) & ACCESSORY SCHEDULE (AE611)
62	FLOOR SINK - REFER TO MECHANICAL DRWGS & SPECS.
63	BABY CHANGING STATION - REFER TO ACCESSORY SCHEDULE (AE611)
67	WOOD VENEER WALL COVERING (WC-1)
79	WALL MOUNTED PLASTIC LAMINATE URINAL PARTITION - REFER TO ACCESSORY SCHEDULE (AE611)
81	WOOD VENEER CABINET (WC-1)

GENERAL NOTES

1. UNLESS NOTED OTHERWISE, SEE SHEET 1/AE901 FOR TYPICAL ACCESSORY MOUNTING HEIGHTS
2. UPPER, LOWER, AND TALL MILLWORK CABINETS NOT TO EXCEED 36" IN WIDTH
3. UNLESS NOTED OTHERWISE, MATCH UPPER CABINET WIDTH DIMENSIONS TO BASE CABINETS - TYP.
4. ALL ELECTRICAL AND DATA OUTLETS ABOVE COUNTER TOPS SHOULD BE MOUNTED HORIZONTALLY
5. PROVIDE SAFETY INSULATION ON ALL EXPOSED SUPPLY WATER LINES AND WASTE LINES.

LICENSED ARCHITECT 6710870 JOSEPH FLINT SMITH STATE OF UTAH
01.20.12

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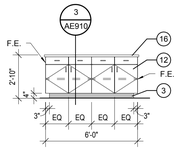
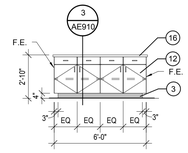
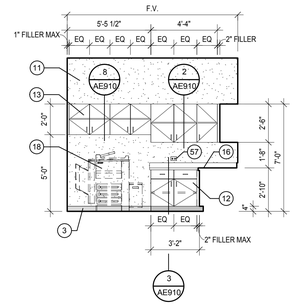


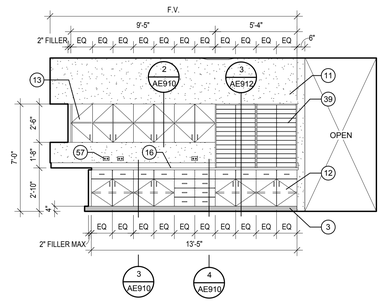
4 B226 South Island Workroom
1/4" = 1'-0"



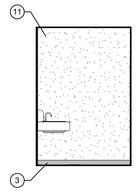
3 B226 North Island Workroom
1/4" = 1'-0"



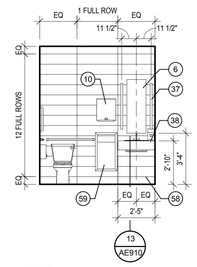
2 B226 West Workroom
1/4" = 1'-0"



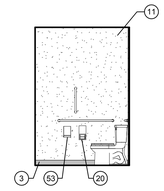
1 B226 North Workroom
1/4" = 1'-0"



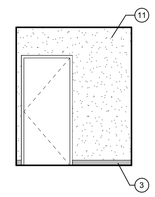
8 B228 West Toilet
1/4" = 1'-0"



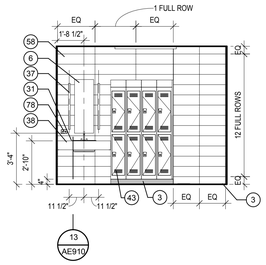
7 B228 South Toilet
1/4" = 1'-0"



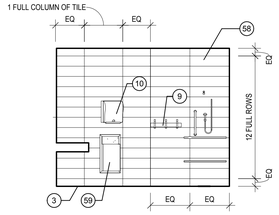
6 B228 East Toilet
1/4" = 1'-0"



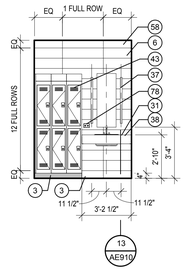
5 B228 North Toilet
1/4" = 1'-0"



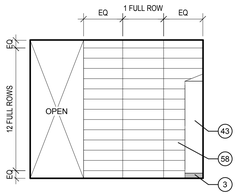
13 B231 North Locker/Shower
1/4" = 1'-0"



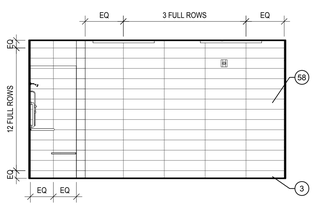
12 B229 West Locker/Shower
1/4" = 1'-0"



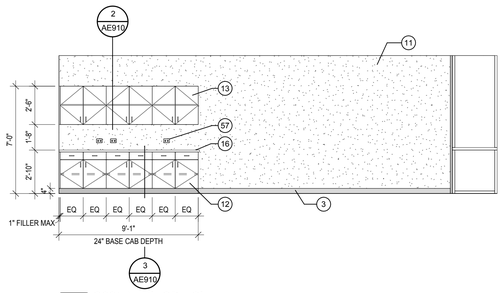
11 B229 South Locker/Shower
1/4" = 1'-0"



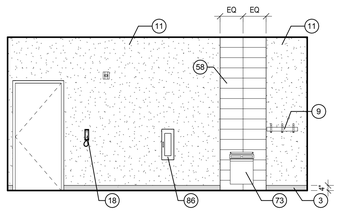
10 B229 East Locker/Shower
1/4" = 1'-0"



9 B229 North Locker/Shower
1/4" = 1'-0"



15 C201 North CDL Classroom
1/4" = 1'-0"



14 B232 South Exercise
1/4" = 1'-0"

KEYNOTE LEGEND

3	BASE AS SPECIFIED
6	MIRROR - CENTER OVER SINK - REFER TO MOUNTING HEIGHT ELEVATIONS (1/AE901) & ACCESSORY SCHEDULE (AE611)
9	COAT HOOK - REFER TO ACCESSORY SCHEDULE (AE611)
10	AUTOMATIC PAPER TOWEL DISPENSER - REFER TO MOUNTING HEIGHT ELEVATIONS (1/AE901) & ACCESSORY SCHEDULE (AE611)
11	GWB PAINTED WALL - REFER TO ROOM FINISH SCHEDULE (AE611)
12	PLASTIC LAMINATE BASE CABINET
13	PLASTIC LAMINATE UPPER CABINET
16	PLASTIC LAMINATE COUNTERTOP W/ NO BACKSPLASH
18	FURNITURE OR EQUIPMENT BY OTHERS
20	TOILET PAPER DISPENSOR - REFER TO MOUNTING HEIGHT ELEVATIONS (1/AE901) & ACCESSORY SCHEDULE (AE611)
31	COUNTER MOUNTED SOAP DISPENSOR - REFER TO ACCESSORY SCHEDULE (AE611)
37	WALL SCONCE - REFER TO ELECTRICAL DRAWINGS
38	STONE COUNTERTOP W/ NO BACKSPLASH
39	PLASTIC LAMINATE & CLEAR ACRYLIC MAIL SLOTS
43	PLASTIC LAMINATE PARTIAL HEIGHT LOCKERS - REFER TO ACCESSORY SCHEDULE (AE611)
53	SANITARY NAPKIN DISPOSAL - REFER TO MOUNTING HEIGHT ELEVATIONS (1/AE901) & ACCESSORY SCHEDULE (AE611)
57	DATA / ELECTRICAL - REFER TO ELECTRICAL DRWGS
58	PORCELAIN TILE (T-8)
59	SEMI-RECESSED TRASH RECEPTACLE - REFER TO MOUNTING HEIGHT ELEVATIONS (1/AE901) & ACCESSORY SCHEDULE (AE611)
73	DRINKING FOUNTAIN - REFER TO MECHANICAL DRWGS.
78	PROVIDE STAINLESS STEEL COVER PLATE AT THIS LOCATION.
86	SEMI-RECESSED FIRE EXTINGUISHER CABINET

GENERAL NOTES

1 UNLESS NOTED OTHERWISE, SEE SHEET 1/AE901 FOR TYPICAL ACCESSORY MOUNTING HEIGHTS

2 UPPER, LOWER, AND TALL MILLWORK CABINETS NOT TO EXCEED 36" IN WIDTH

3 UNLESS NOTED OTHERWISE, MATCH UPPER CABINET WIDTH DIMENSIONS TO BASE CABINETS - TYP.

4 ALL ELECTRICAL AND DATA OUTLETS ABOVE COUNTER TOPS SHOULD BE MOUNTED HORIZONTALLY

5 PROVIDE SAFETY INSULATION ON ALL EXPOSED SUPPLY WATER LINES AND WASTE LINES.

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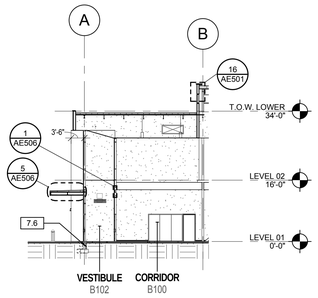
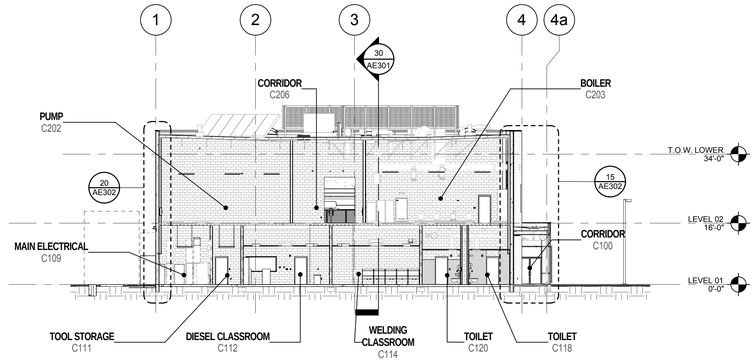
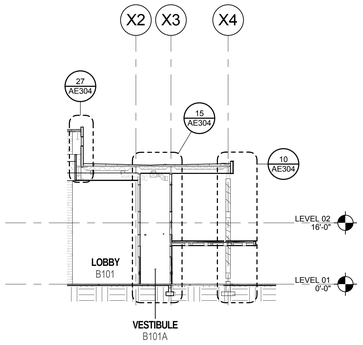


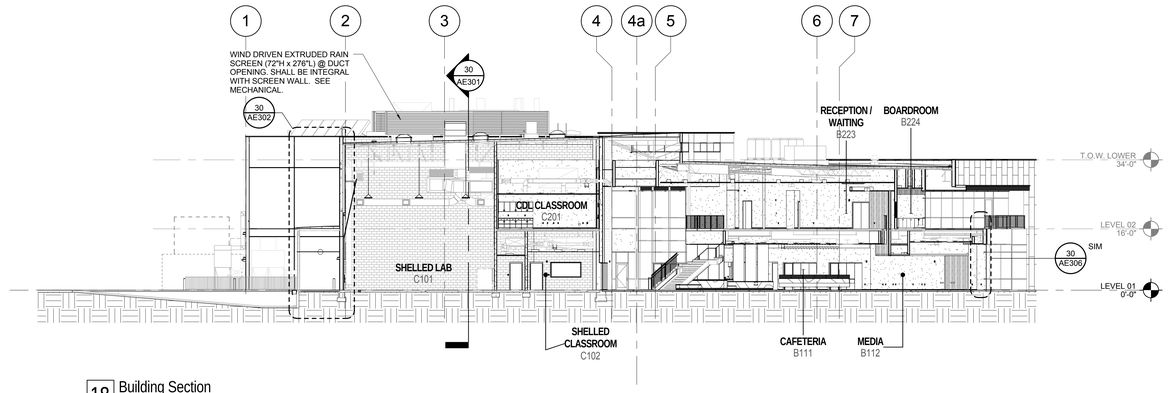
21 Partial Building Section
1/16" = 1'-0"



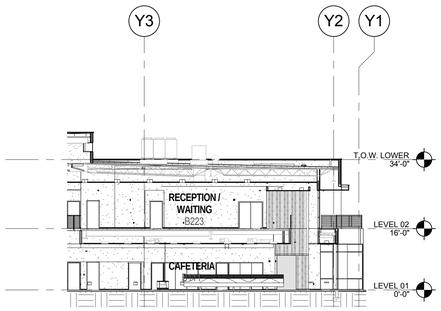
16 Building Section
1/16" = 1'-0"



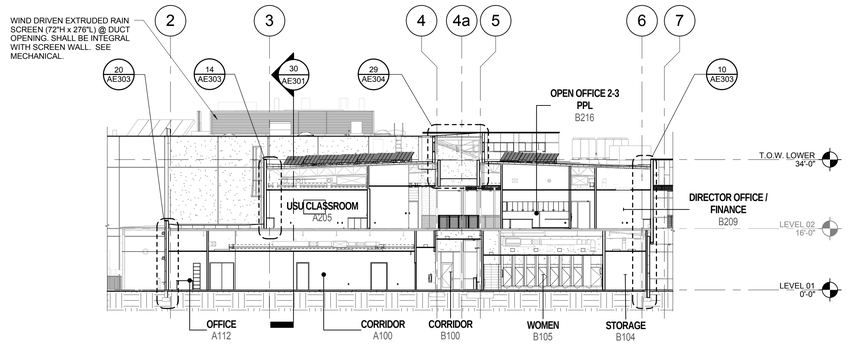
23 Partial Building Section
1/16" = 1'-0"



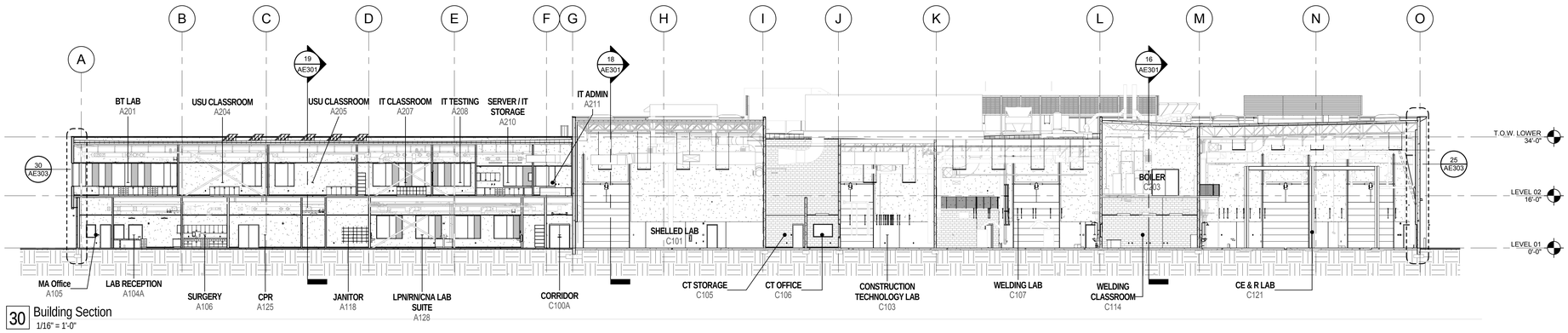
18 Building Section
1/16" = 1'-0"



24 Partial Building Section
1/16" = 1'-0"



19 Building Section
1/16" = 1'-0"



30 Building Section
1/16" = 1'-0"

KEYNOTE LEGEND

7.6	2" RIGID INSULATION

LICENSED ARCHITECT
6710870
JOSEPH FLINT SMITH
STATE OF UTAH
01.20.12

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project:
TOOELE APPLIED TECHNOLOGY COLLEGE - NEW BUILDING

88 South Tooele Blvd
Tooele, UT 84074

DFCM PROJECT #11064280

project#: 11.0420
date: 1/20/2012

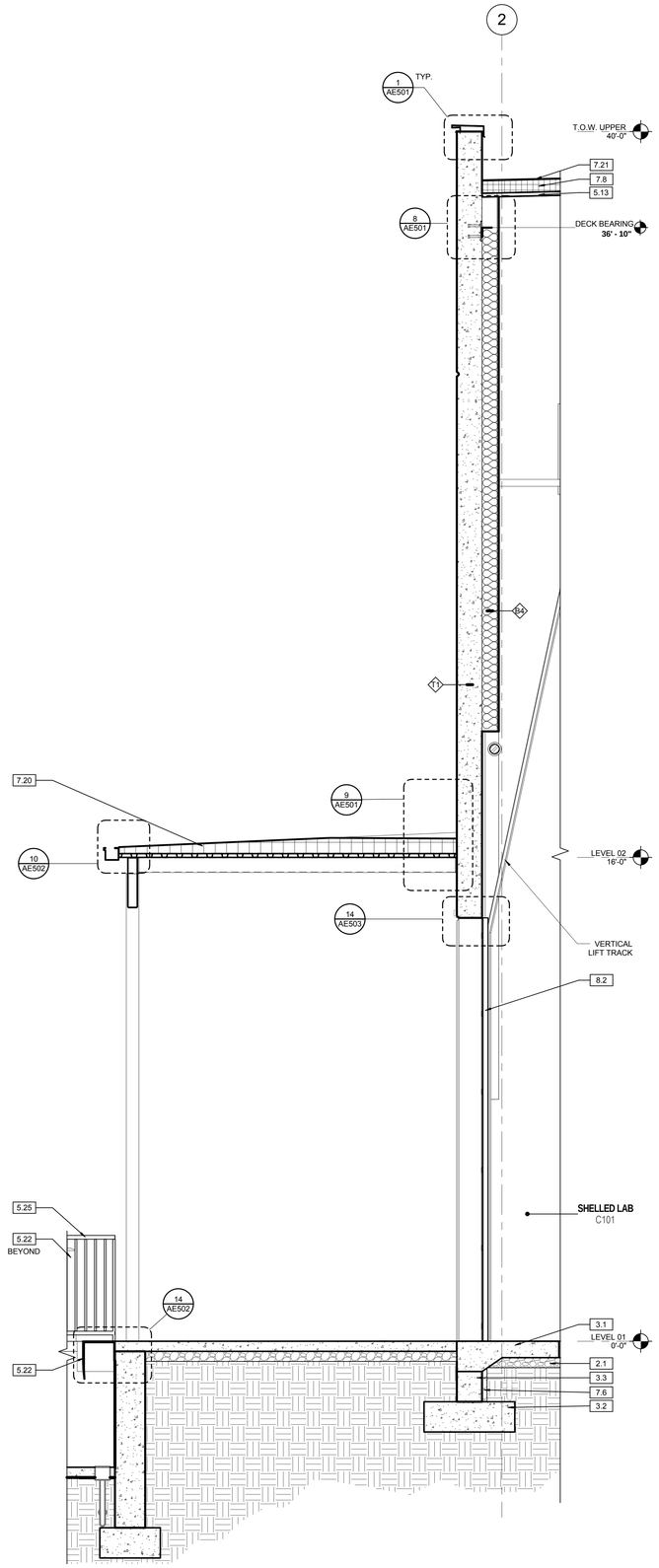
revisions :

Building Sections

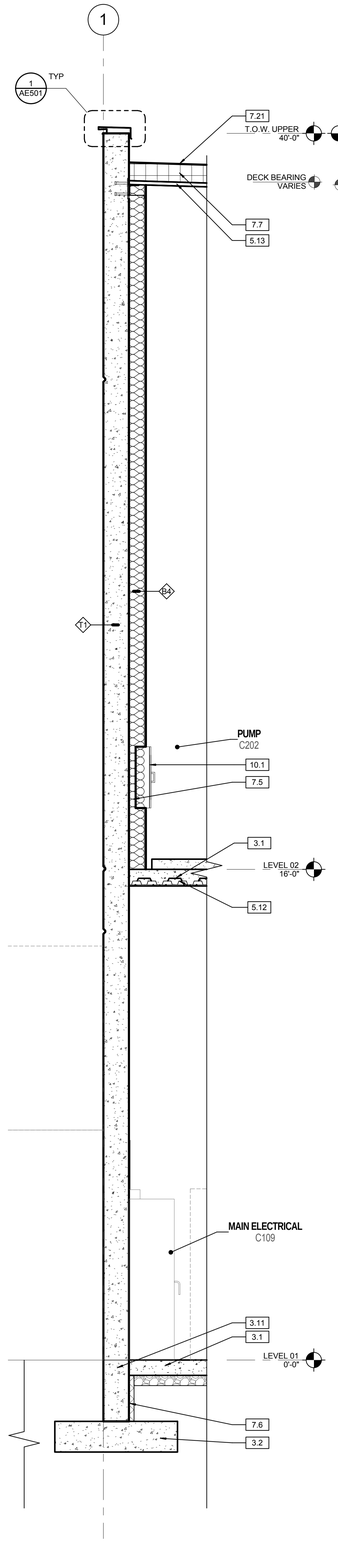
sheet:

AE301

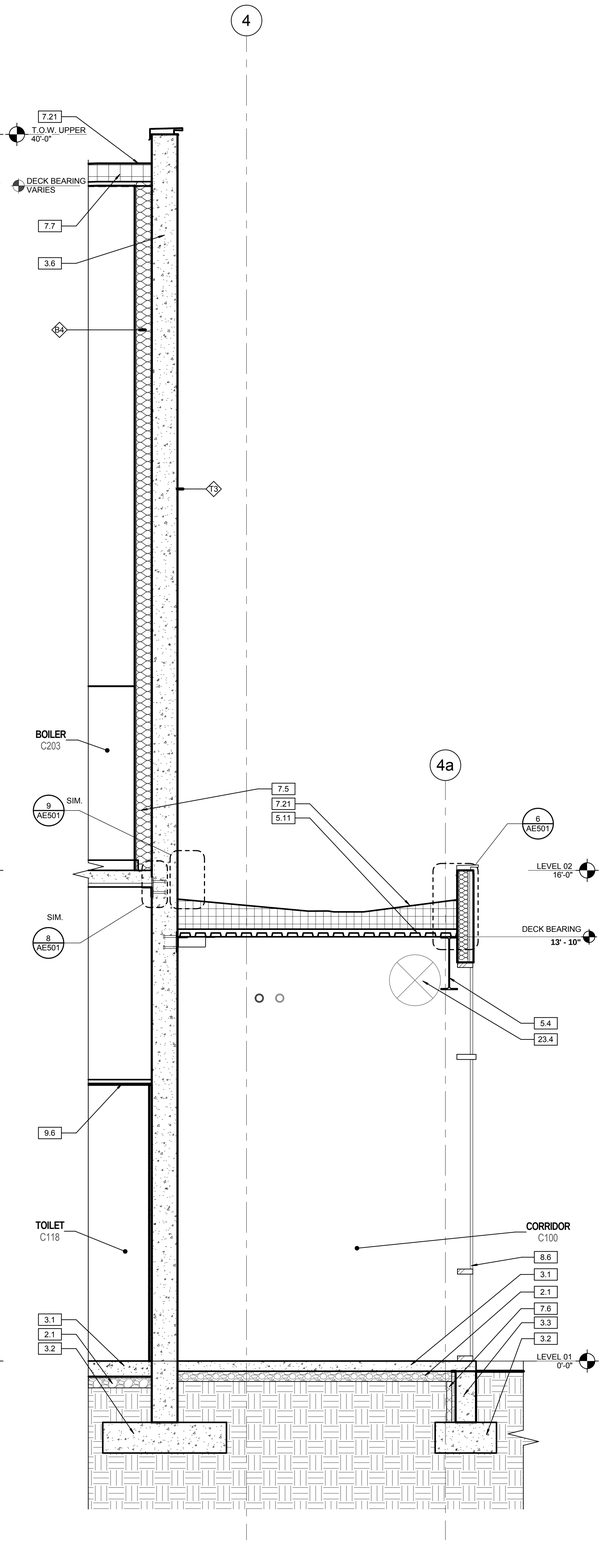
100% Construction Documents



30 Wall Section
1/2" = 1'-0"



20 Wall Section
1/2" = 1'-0"



15 Wall Section
1/2" = 1'-0"

KEYNOTE LEGEND

2.1	GRAVEL
3.1	CAST-IN-PLACE CONCRETE SLAB, SEE STRUCTURAL
3.2	CAST-IN-PLACE CONCRETE FOOTING, SEE STRUCTURAL
3.3	CAST-IN-PLACE CONCRETE FOUNDATION, SEE STRUCTURAL
3.6	10" TILT-UP CONCRETE WALL WITH BOARD FORM LINER. SEE STRUCTURAL
3.11	CONCRETE TILT-UP WALL PANEL
5.4	STEEL BEAM, SEE STRUCTURAL
5.11	STEEL DECK, SEE STRUCTURAL
5.12	1 1/2" METAL DECK, SEE STRUCTURAL
5.13	3" METAL DECK, SEE STRUCTURAL
5.22	6" DIA. GALV. STEEL BOLLARD, SEE DETAIL 8/AE502
5.25	METAL GUARDRAIL
7.5	R-19 BATT INSULATION
7.6	2" RIGID INSULATION
7.7	TAPERED RIGID INSULATION, SEE SPECIFICATIONS
7.8	ROOF AND DECK INSULATION
7.20	LOW SLOPE ROOFING
7.21	THERMOPLAST MEMBRANE ROOFING
7.24	PARAPET CAP FLASHING
8.2	OVERHEAD DOOR
8.6	STOREFRONT SYSTEM
9.6	CEILINGS
10.1	SEMI-RECESSED FIRE EXTINGUISHER CABINET
23.4	MECHANICAL DUCT, SEE MECHANICAL

GENERAL NOTES -

1	NOT ALL ITEMS NOTED. COORDINATE WALL SECTIONS WITH WALL TYPES AND DETAILS.
2	WRAP METAL STUDS FURRING AROUND OVERHEAD DOORS AND HARDWARE AS REQUIRED AT EXTERIOR WALLS.
3	REFERENCE STRUCTURAL FOR TYPICAL EXTERIOR METAL STUD WALL DETAILS AND CONNECTIONS TO STRUCTURE
4	FOR MECHANICAL, ELECTRICAL AND PLUMBING ITEMS LESS THAN 5" RUN THRU FURRING AT EXTERIOR WALLS, FOR ITEMS LARGER THAN 5" SURFACE MOUNT TO FINISH FACE OF FURRED WALLS

LICENSED ARCHITECT 6710870 JOSEPH FLINT SMITH STATE OF UTAH
01.20.12

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project:
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88 South Tooele Blvd
Tooele, UT 84074

DFCM PROJECT #11064280

project#: 11.0420
date: 1/20/2012

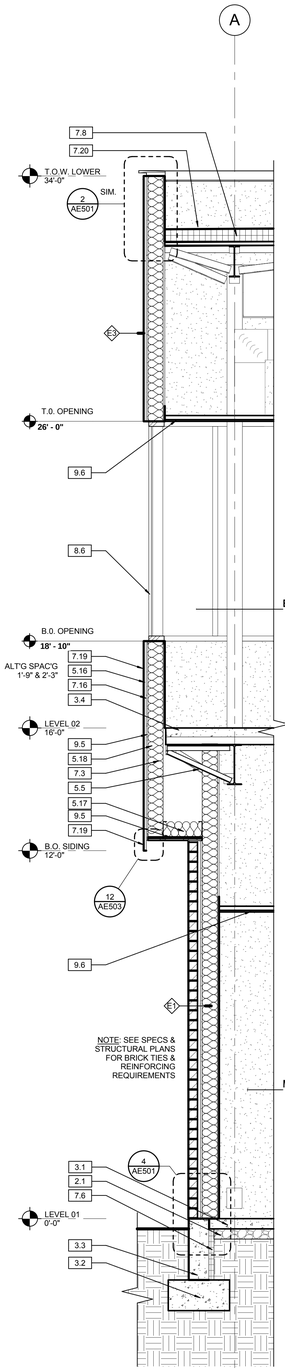
revisions :

Wall Sections

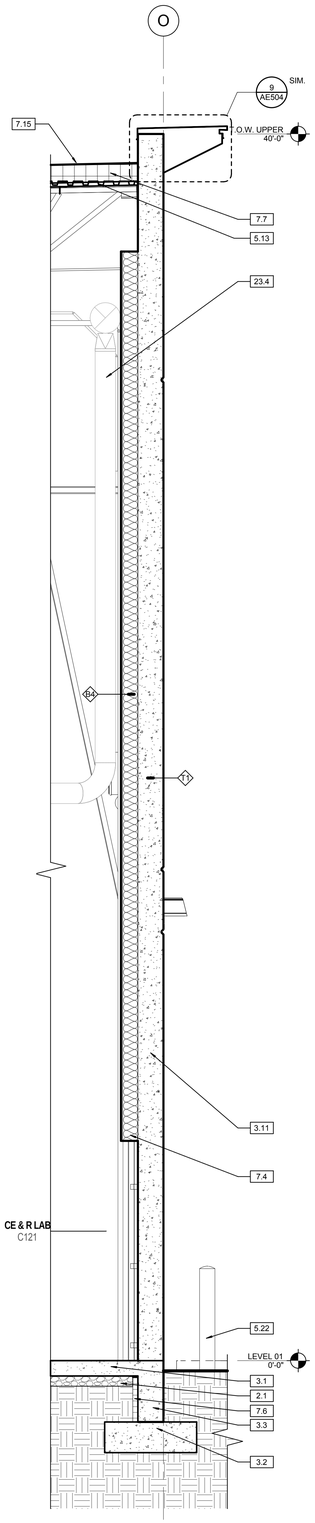
sheet:

AE302

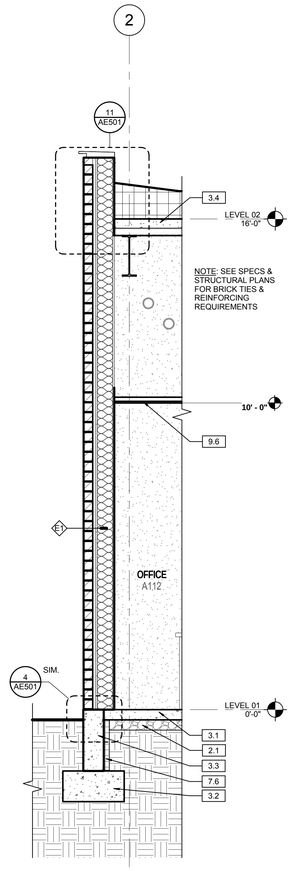
100% Construction Documents



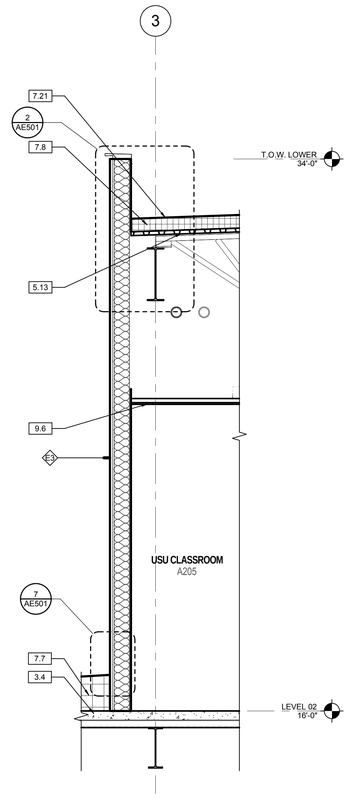
30 WALL SECTION
1/2" = 1'-0"



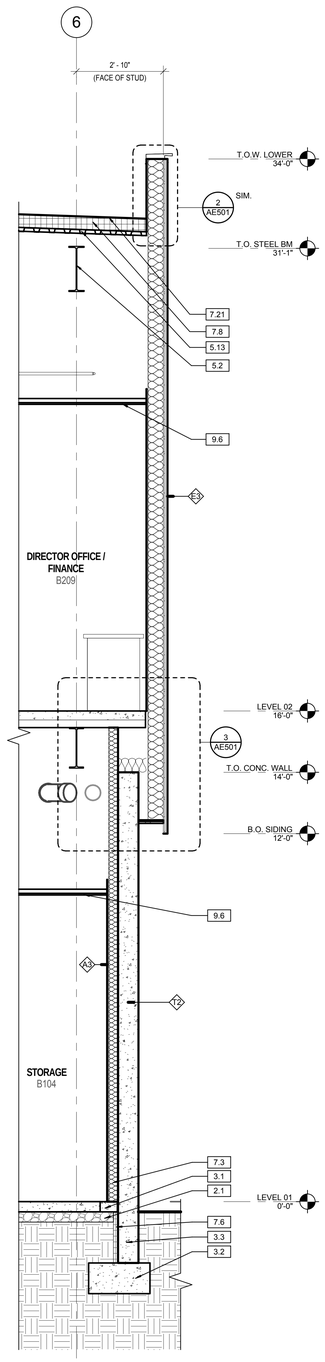
25 WALL SECTION
1/2" = 1'-0"



20 WALL SECTION
1/2" = 1'-0"



14 WALL SECTION
1/2" = 1'-0"



10 WALL SECTION
1/2" = 1'-0"

KEYNOTE LEGEND

2.1	GRAVEL
3.1	CAST-IN-PLACE CONCRETE SLAB, SEE STRUCTURAL
3.2	CAST-IN-PLACE CONCRETE FOOTING, SEE STRUCTURAL
3.3	CAST-IN-PLACE CONCRETE FOUNDATION, SEE STRUCTURAL
3.4	CAST-IN-PLACE CONCRETE SLAB W/ METAL DECKING
3.11	CONCRETE TILT-UP WALL PANEL
5.2	STRUCTURAL STEEL - CISC
5.5	STEEL BRACE, SEE STRUCTURAL
5.10	STEEL JOIST, SEE STRUCTRUAL
5.13	3" METAL DECK, SEE STRUCTURAL
5.16	7/8" HAT CHANNEL
5.17	3-5/8" METAL STUD
5.18	6" METAL STUD
5.19	METAL FABRICATIONS
5.22	6" DIA. GALV. STEEL BOLLARD, SEE DETAIL 8/AE502
7.3	BATT INSULATION
7.4	R-13 BATT INSULATION
7.6	2" RIGID INSULATION
7.7	TAPERED RIGID INSULATION, SEE SPECIFICATIONS
7.8	ROOF AND DECK INSULATION
7.15	TAPERED EPS INSULATION BOARD
7.16	AIR/MOISURE BARRIER
7.19	WEATHERING STEEL SIDING
7.20	LOW SLOPE ROOFING
7.21	THERMOPLAST MEMBRANE ROOFING
8.1	STEEL DOORS AND FRAMES, TYP. SEE SHEET A601 FOR SCHEDULE AND TYPE
8.6	STOREFRONT SYSTEM
9.4	5/8" GYPSUM WALLBOARD
9.5	5/8" GLASS-MAT GYPSUM BOARD
9.6	CEILINGS
22.1	DOWNSPOUT SCUPPER
23.4	MECHANICAL DUCT, SEE MECHANICAL

GENERAL NOTES -

1	NOT ALL ITEMS NOTED. COORDINATE WALL SECTIONS WITH WALL TYPES AND DETAILS.
2	WRAP METAL STUDS FURRING AROUND OVERHEAD DOORS AND HARDWARE AS REQUIRED AT EXTERIOR WALLS.
3	REFERENCE STRUCTURAL FOR TYPICAL EXTERIOR METAL STUD WALL DETAILS AND CONNECTIONS TO STRUCTURE.
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LICENSED ARCHITECT
6710870
JOSEPH FLINT SMITH
STATE OF UTAH
01.20.12

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project:
TOOELE APPLIED TECHNOLOGY COLLEGE - NEW BUILDING

88 South Tooele Blvd
Tooele, UT 84074

DFCM PROJECT #11064280

project#: 11.0420
date: 1/20/2012

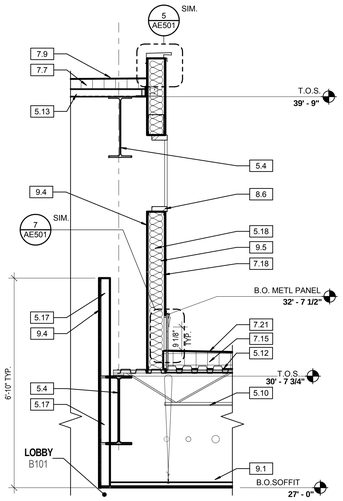
revisions:

Wall Sections

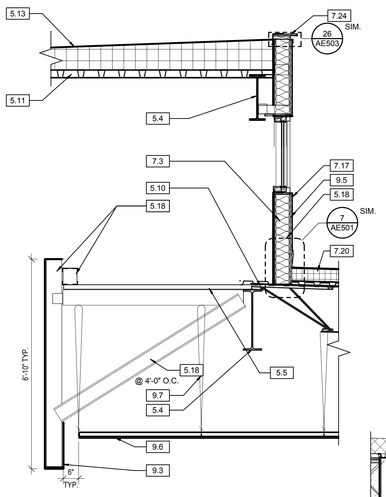
sheet:

AE303

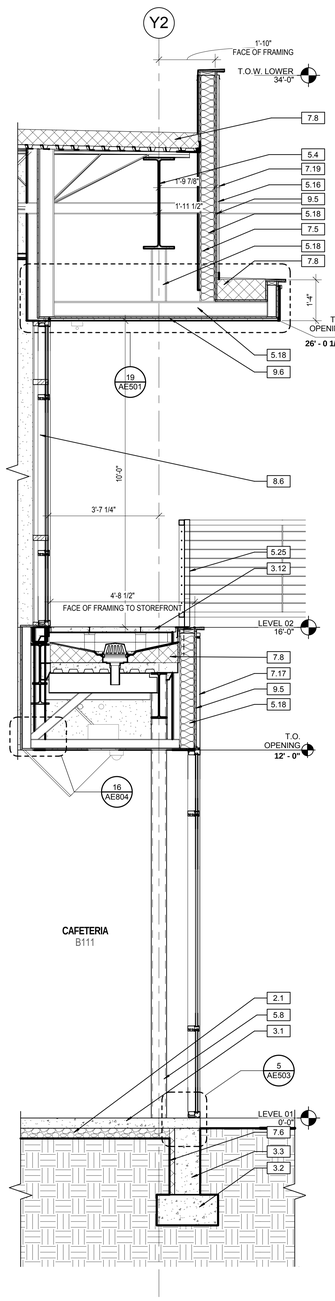
100% Construction Documents



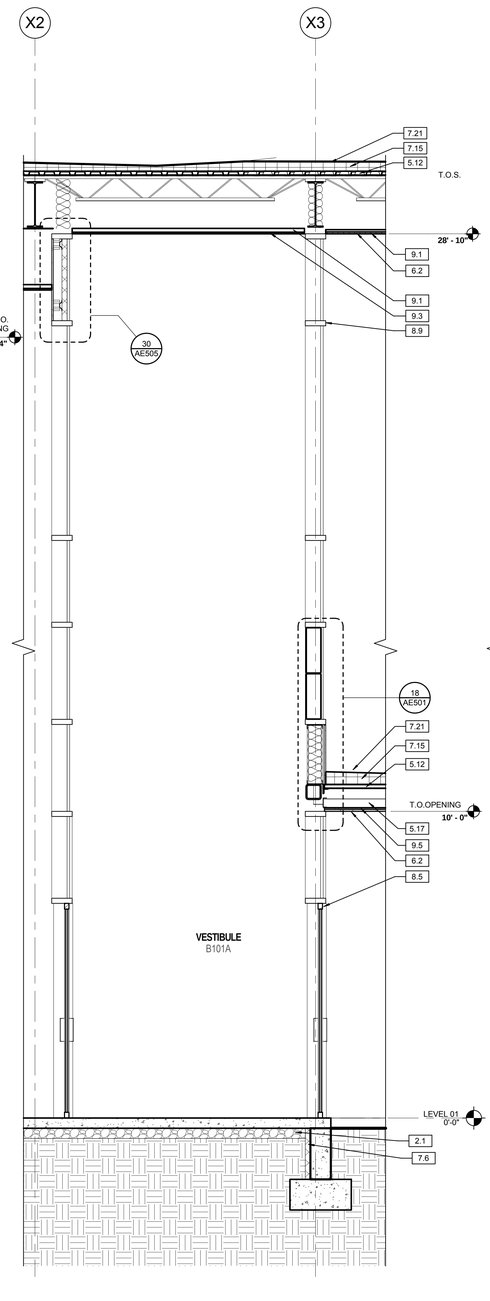
27 WALL SECTION
1/2" = 1'-0"



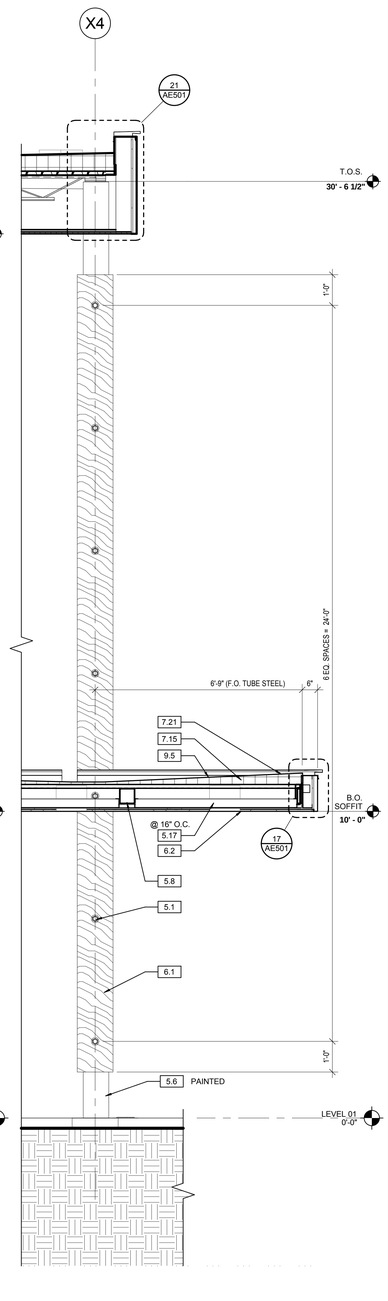
22 WALL SECTION
1/2" = 1'-0"



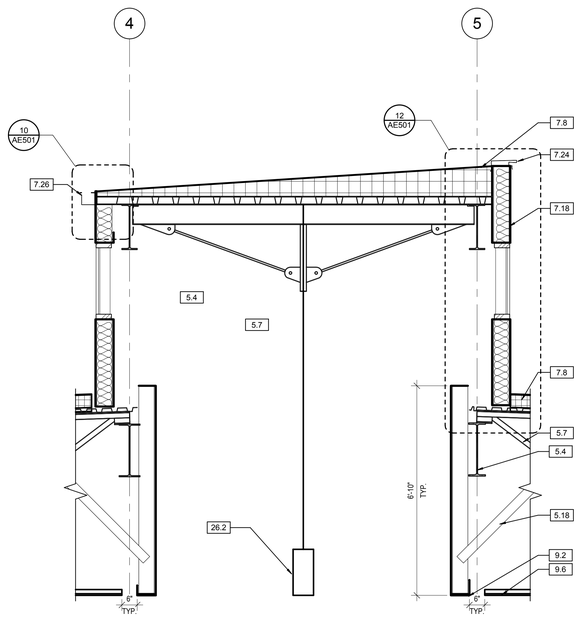
20 WALL SECTION
1/2" = 1'-0"



15 WALL SECTION
1/2" = 1'-0"



10 WALL SECTION
1/2" = 1'-0"



29 CLERESTORY
1/2" = 1'-0"

KEYNOTE LEGEND

2.1	GRAVEL
3.1	CAST-IN-PLACE CONCRETE SLAB, SEE STRUCTURAL
3.2	CAST-IN-PLACE CONCRETE FOOTING, SEE STRUCTURAL
3.3	CAST-IN-PLACE CONCRETE FOUNDATION, SEE STRUCTURAL
3.12	CONCRETE PAVER
5.1	GALV. 1" DIA BOLT W/ (2) WASHERS AND NUT, COUNTERSUNK BOLT AND NUT TO BE FLUSH WITH FACE OF WOOD
5.4	STEEL BEAM, SEE STRUCTURAL
5.5	STEEL BRACE, SEE STRUCTURAL
5.6	STEEL COLUMN, SEE STRUCTURAL
5.7	STEEL TRUSS, SEE STRUCTURAL
5.8	TUBE STEEL, SEE STRUCTURAL
5.10	STEEL JOIST, SEE STRUCTRUAL
5.11	STEEL DECK, SEE STRUCTURAL
5.12	1 1/2" METAL DECK, SEE STRUCTURAL
5.13	3" METAL DECK, SEE STRUCTURAL
5.16	7/8" HAT CHANNEL
5.17	3-5/8" METAL STUD
5.18	6" METAL STUD
5.25	METAL GUARDRAIL
6.1	2-1/2X14 NET TRESSEL WOOD
6.2	TONGUE AND GROVE CEDAR PLANK SOFFIT, STAINED, SEE SPECIFICATIONS
7.3	BATT INSULATION
7.5	R-19 BATT INSULATION
7.6	2" RIGID INSULATION
7.7	TAPERED RIGID INSULATION, SEE SPECIFICATIONS
7.8	ROOF AND DECK INSULATION
7.9	TPO-SINGLE PLY MEMBRANE ON RIGID INSULATION CRICKET, MIN OF 1/4" PER FOOT AT VALLEY.
7.15	TAPERED EPS INSULATION BOARD
7.17	ALUMINUM COMPOSITE METAL PANEL ROUTE AND RETURN SYSTEM
7.18	ALUMINUM COMPOSITE METAL PANEL REVEAL SYSTEM
7.19	WEATHERING STEEL SIDING
7.20	LOW SLOPE ROOFING
7.21	THERMOPLAST MEMBRANE ROOFING
7.24	PARAPET CAP FLASHING
7.26	GUTTER
8.5	CURTAINWALL SYSTEM
8.6	STOREFRONT SYSTEM
8.9	GLAZED CURTAIN WALL
9.1	CEILING SUSPENSION
9.2	GYPSUM BOARD
9.3	5/8" TYPE X GYPSUM BOARD
9.4	5/8" GYPSUM WALLBOARD
9.5	5/8" GLASS-MAT GYPSUM BOARD
9.6	CEILINGS
9.7	SUSPENSION WIRE
26.2	LIGHTING, SEE ELECTRICAL

GENERAL NOTES -

1	NOT ALL ITEMS NOTED. COORDINATE WALL SECTIONS WITH WALL TYPES AND DETAILS.
2	WRAP METAL STUDS FURRING AROUND OVERHEAD DOORS AND HARDWARE AS REQUIRED AT EXTERIOR WALLS.
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LICENSED ARCHITECT
6710870
JOSEPH FLINT SMITH
STATE OF UTAH
01.20.12

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DFCM PROJECT #11064280

project#: 11.0420
date: 1/20/2012

revisions:

Wall Sections

sheet:

AE304

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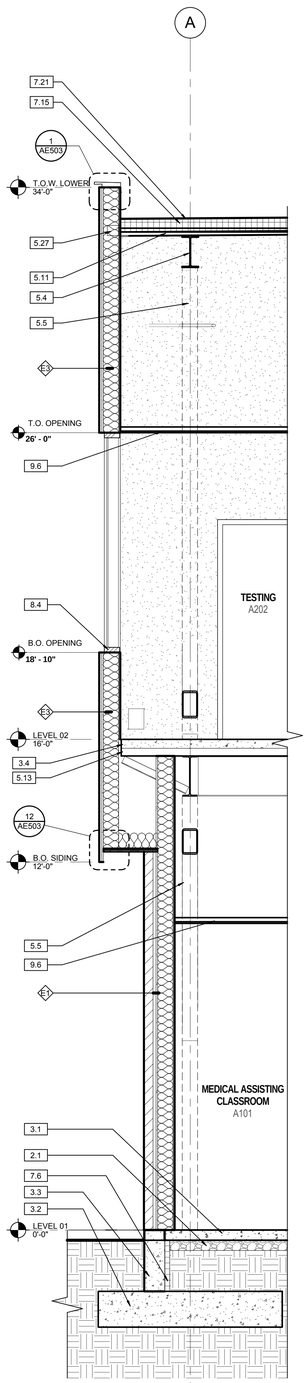
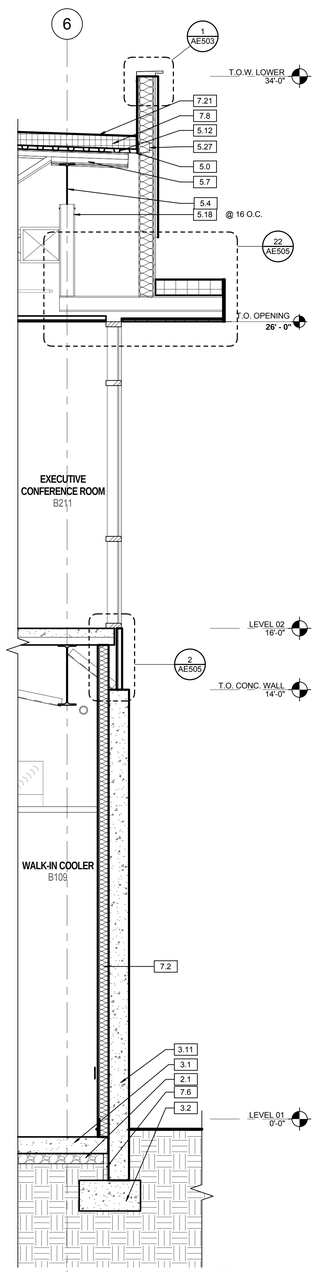


25 WALL SECTION
1/2" = 1'-0"



20 WALL SECTION
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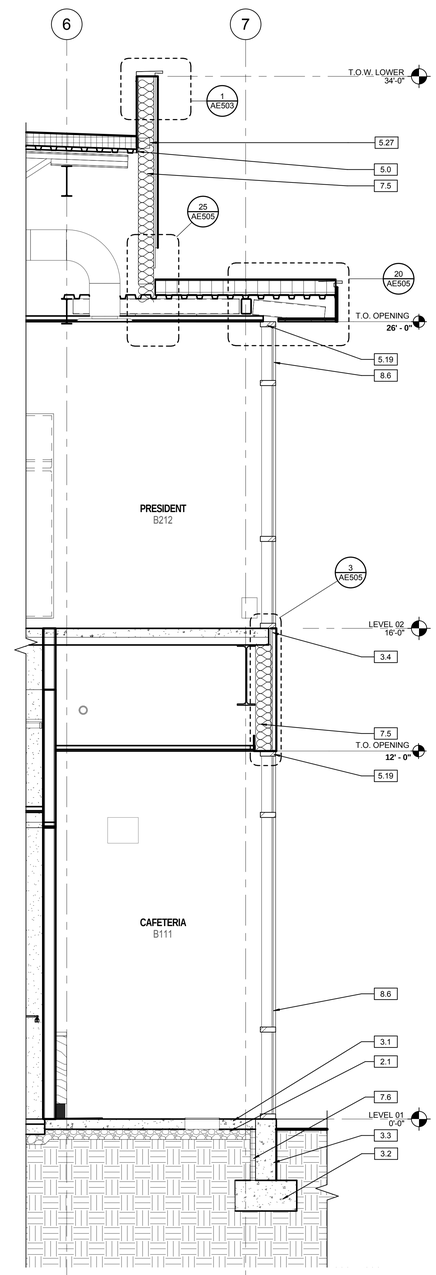

10 WALL SECTION
1/2" = 1'-0"

KEYNOTE LEGEND

2.1	GRAVEL
3.1	CAST-IN-PLACE CONCRETE SLAB, SEE STRUCTURAL
3.2	CAST-IN-PLACE CONCRETE FOOTING, SEE STRUCTURAL
3.3	CAST-IN-PLACE CONCRETE FOUNDATION, SEE STRUCTURAL
3.4	CAST-IN-PLACE CONCRETE SLAB W/ METAL DECKING
3.11	CONCRETE TILT-UP WALL PANEL
5.0	BENT STEEL PLATE, SEE STRUCTURAL
5.4	STEEL BEAM, SEE STRUCTURAL
5.5	STEEL BRACE, SEE STRUCTURAL
5.7	STEEL TRUSS, SEE STRUCTURAL
5.11	STEEL DECK, SEE STRUCTURAL
5.12	1 1/2" METAL DECK, SEE STRUCTURAL
5.13	3" METAL DECK, SEE STRUCTURAL
5.18	6" METAL STUD
5.19	METAL FABRICATIONS
5.27	FRAMING CLIP
7.2	R-11 BATT INSULATION
7.5	R-19 BATT INSULATION
7.6	2" RIGID INSULATION
7.8	ROOF AND DECK INSULATION
7.15	TAPERED EPS INSULATION BOARD
7.21	THERMOPLAST MEMBRANE ROOFING
8.4	ALUMINUM-FRAMED STOREFRONTS
8.6	STOREFRONT SYSTEM
9.6	CEILINGS

GENERAL NOTES -

1	NOT ALL ITEMS NOTED. COORDINATE WALL SECTIONS WITH WALL TYPES AND DETAILS.
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DFCM PROJECT #11064280

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Wall Sections

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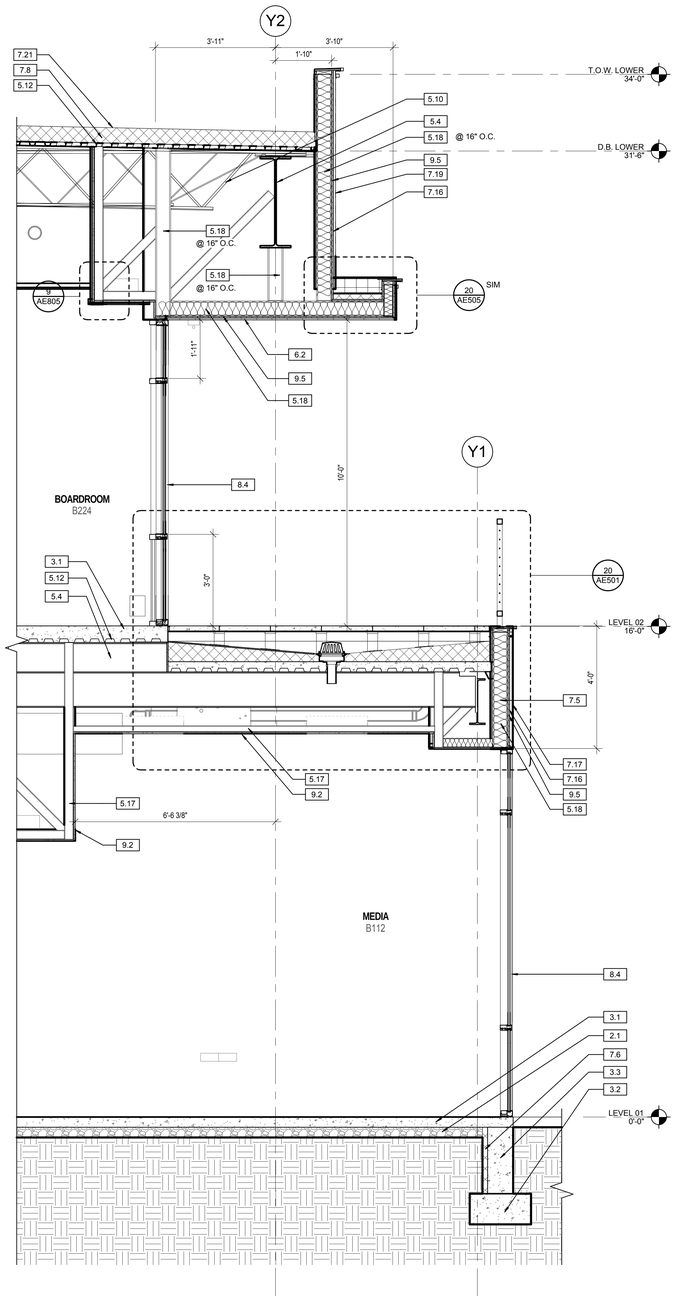
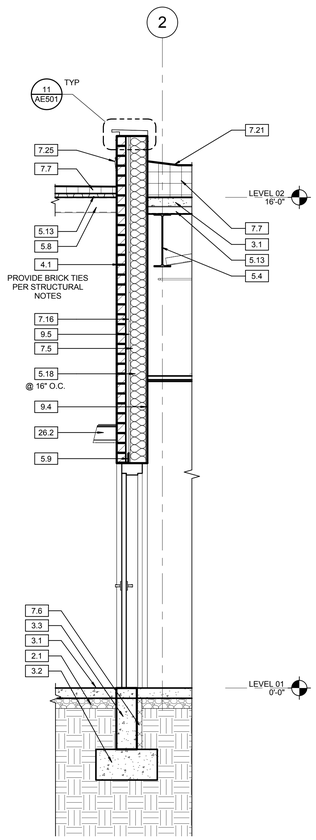
AE305

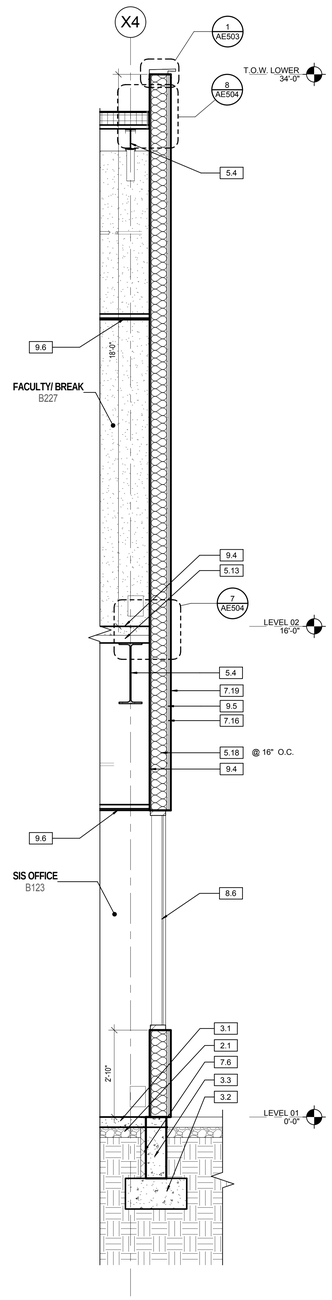
100% Construction Documents



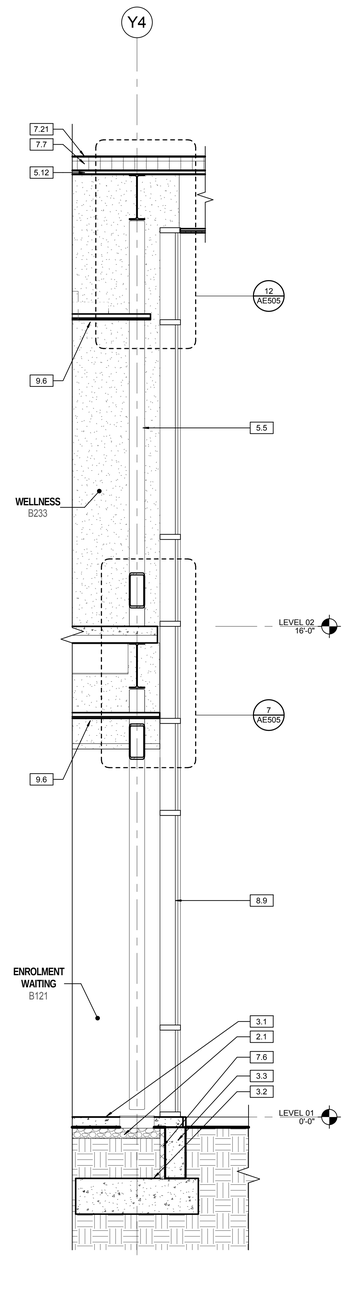
30 WALL SECTION
1/2" = 1'-0"



20 WALL SECTION
1/2" = 1'-0"



15 WALL SECTION
1/2" = 1'-0"



10 WALL SECTION
1/2" = 1'-0"

KEYNOTE LEGEND

2.1	GRAVEL
3.1	CAST-IN-PLACE CONCRETE SLAB, SEE STRUCTURAL
3.2	CAST-IN-PLACE CONCRETE FOOTING, SEE STRUCTURAL
3.3	CAST-IN-PLACE CONCRETE FOUNDATION, SEE STRUCTURAL
4.1	16" EMPEROR BRICK
5.4	STEEL BEAM, SEE STRUCTURAL
5.5	STEEL BRACE, SEE STRUCTURAL
5.8	TUBE STEEL, SEE STRUCTURAL
5.9	STEEL ANGLE, SEE STRUCTURAL
5.10	STEEL JOIST, SEE STRUCTRUAL
5.12	1 1/2" METAL DECK, SEE STRUCTURAL
5.13	3" METAL DECK, SEE STRUCTURAL
5.17	3-5/8" METAL STUD
5.18	6" METAL STUD
6.2	TONGUE AND GROVE CEDAR PLANK SOFFIT, STAINED, SEE SPECIFICATIONS
7.5	R-19 BATT INSULATION
7.6	2" RIGID INSULATION
7.7	TAPERED RIGID INSULATION, SEE SPECIFICATIONS
7.8	ROOF AND DECK INSULATION
7.16	AIR/MOISURE BARRIER
7.17	ALUMINUM COMPOSITE METAL PANEL ROUTE AND RETURN SYSTEM
7.19	WEATHERING STEEL SIDING
7.21	THERMOPLAST MEMBRANE ROOFING
7.25	REGLET/COUNTERFLASHING
8.4	ALUMINUM-FRAMED STOREFRONTS
8.6	STOREFRONT SYSTEM
8.9	GLAZED CURTAIN WALL
9.2	GYPSUM BOARD
9.4	5/8" GYPSUM WALLBOARD
9.5	5/8" GLASS-MAT GYPSUM BOARD
9.6	CEILINGS
26.2	LIGHTING, SEE ELECTRICAL

GENERAL NOTES -

1	NOT ALL ITEMS NOTED. COORDINATE WALL SECTIONS WITH WALL TYPES AND DETAILS.
2	WRAP METAL STUDS FURRING AROUND OVERHEAD DOORS AND HARDWARE AS REQUIRED AT EXTERIOR WALLS.
3	REFERENCE STRUCTURAL FOR TYPICAL EXTERIOR METAL STUD WALL DETAILS AND CONNECTIONS TO STRUCTURE
4	FOR MECHANICAL, ELECTRICAL AND PLUMBING ITEMS LESS THAN 5" RUN THRU FURRING AT EXTERIOR WALLS, FOR ITEMS LARGER THAN 5" SURFACE MOUNT TO FINISH FACE OF FURRED WALLS

LICENSED ARCHITECT
6710870
JOSEPH FLINT SMITH
STATE OF UTAH
01.20.12

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project:
TOOELE APPLIED TECHNOLOGY COLLEGE - NEW BUILDING

88 South Tooele Blvd
Tooele, UT 84074

DFCM PROJECT #11064280

project#: 11.0420
date: 1/20/2012

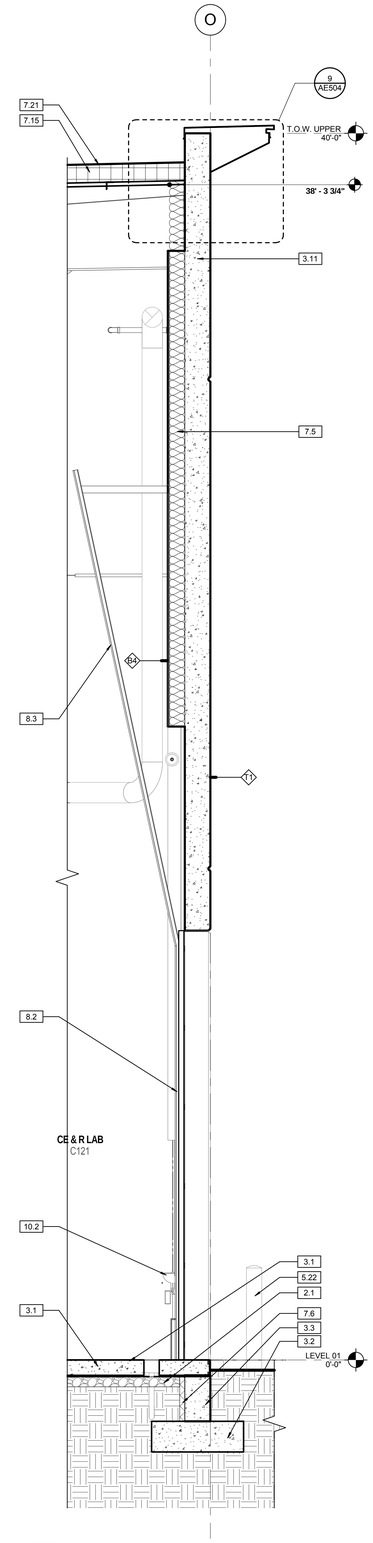
revisions :

Wall Sections

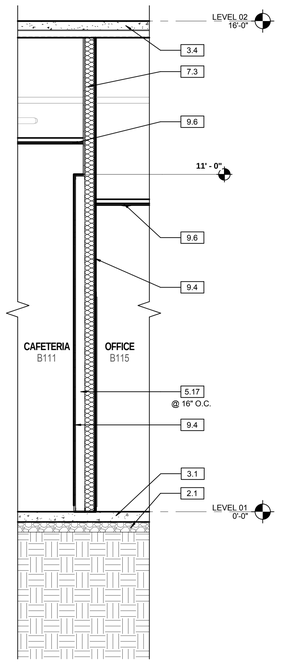
sheet:

AE306

100% Construction Documents



15 WALL SECTION
1/2" = 1'-0"



16 WALL SECTION
1/2" = 1'-0"

KEYNOTE LEGEND

2.1	GRAVEL
3.1	CAST-IN-PLACE CONCRETE SLAB, SEE STRUCTURAL
3.2	CAST-IN-PLACE CONCRETE FOOTING, SEE STRUCTURAL
3.3	CAST-IN-PLACE CONCRETE FOUNDATION, SEE STRUCTURAL
3.4	CAST-IN-PLACE CONCRETE SLAB W/ METAL DECKING
3.11	CONCRETE TILT-UP WALL PANEL
5.17	3-5/8" METAL STUD
5.22	6" DIA. GALV. STEEL BOLLARD, SEE DETAIL 8/AE502
7.3	BATT INSULATION
7.5	R-19 BATT INSULATION
7.6	2" RIGID INSULATION
7.15	TAPERED EPS INSULATION BOARD
7.21	THERMOPLAST MEMBRANE ROOFING
8.2	OVERHEAD DOOR
8.3	OVERHEAD VERTICAL DOOR TRACK
9.4	5/8" GYPSUM WALLBOARD
9.6	CEILINGS
10.2	TOILET, BATH, AND LAUNDRY ACCESSORIES
14.3	HOISTS AND CRANES

GENERAL NOTES -

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DFCM PROJECT #11064280

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date: 1/20/2012

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Wall Sections

sheet:

AE307

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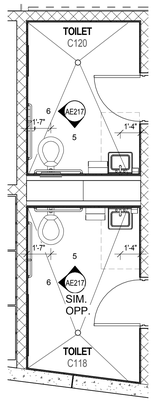
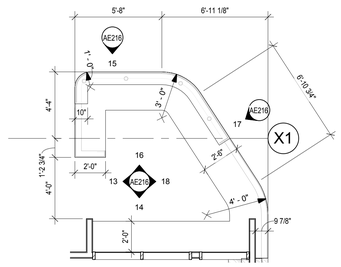
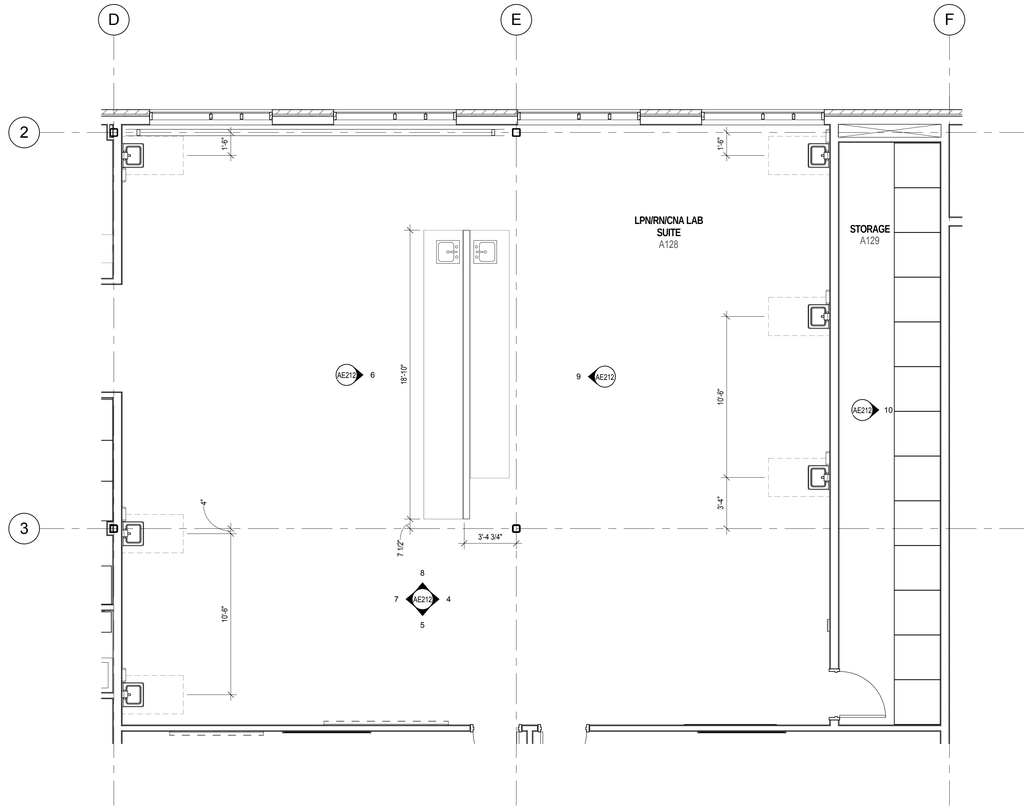


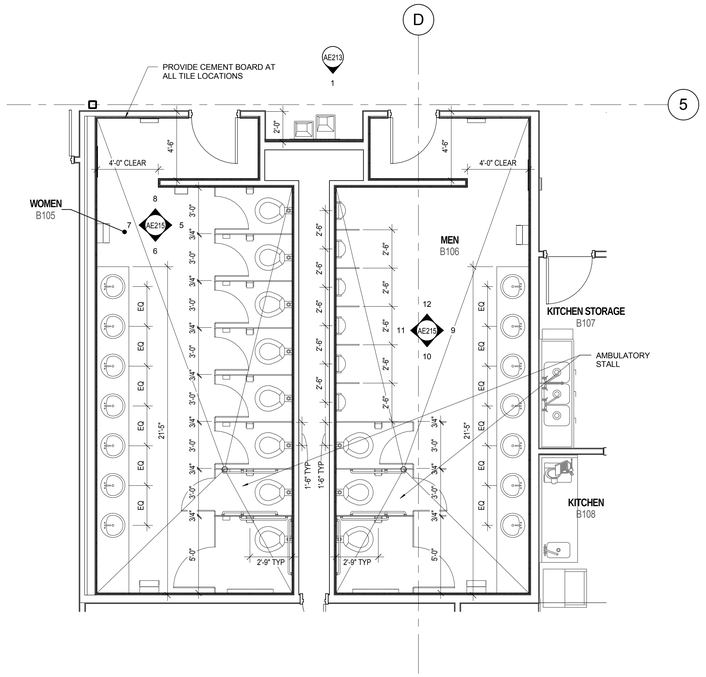
8 C118/C120 Toilet Enlarged Plan
1/4" = 1'-0"



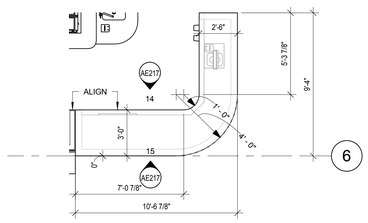
7 B119 Reception Enlarged Plan
1/4" = 1'-0"



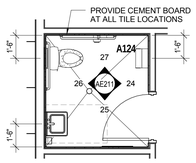
5 A128 LPN/RN/CNA Lab Suite Enlarged Plan
1/4" = 1'-0"



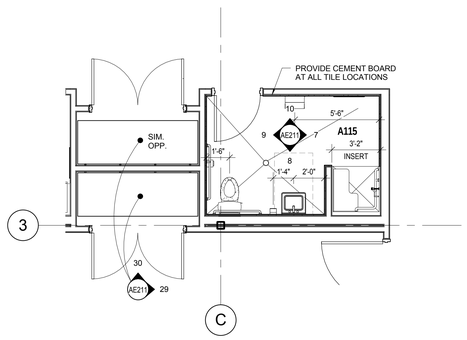
6 B105-B106 Women / Men Enlarged Plan
1/4" = 1'-0"



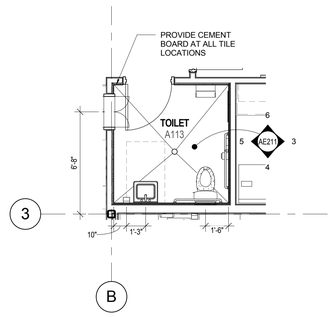
9 Kitchen Service Counter Enlarged Plan
1/4" = 1'-0"



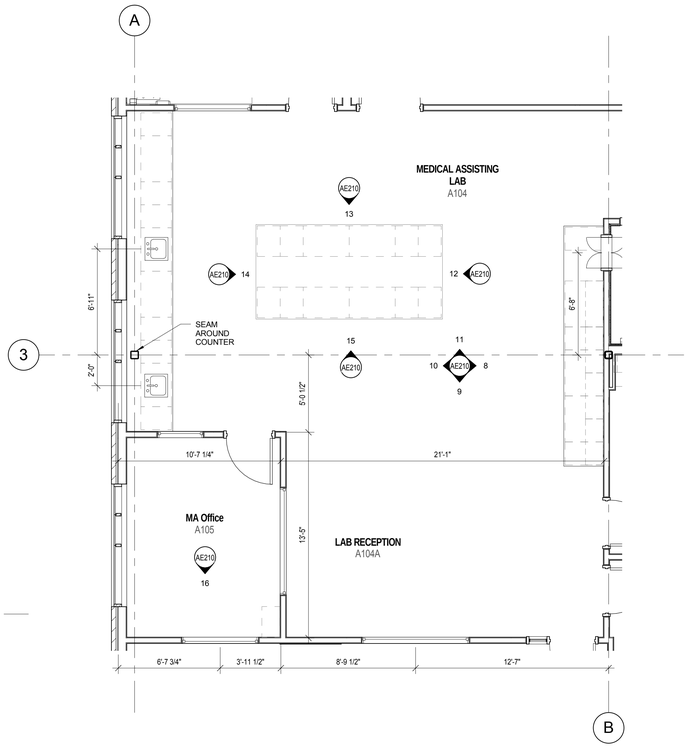
4 A124 Toilet Enlarged Plan
1/4" = 1'-0"



3 A115 Instruction Toilet Enlarged Plan
1/4" = 1'-0"



2 A113 Toilet Enlarged Plan
1/4" = 1'-0"



1 A104 Medical Assisting Lab Enlarged Plan
1/4" = 1'-0"

GENERAL ENLARGED FLOOR PLAN NOTES	
1	SEE 1/AE901 FOR TYPCIAL MOUNTING HEIGHTS

LICENSED ARCHITECT 6710870 JOSEPH FLINT SMITH STATE OF UTAH
01.20.12

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88 South Tooele Blvd
Tooele, UT 84074

DFCM PROJECT #11064280

project#: 11.0420
date: 1/20/2012

revisions :

Lvl 1 Enlarged Floor Plans

sheet:

AE401

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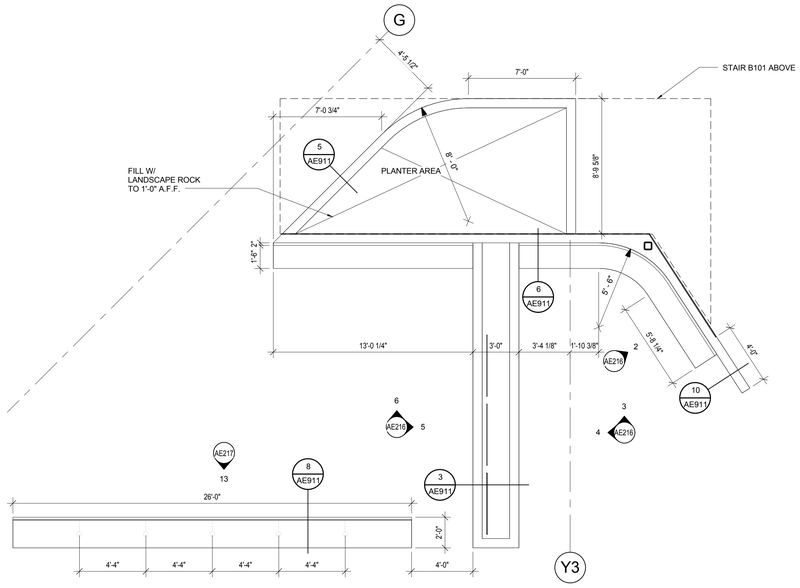
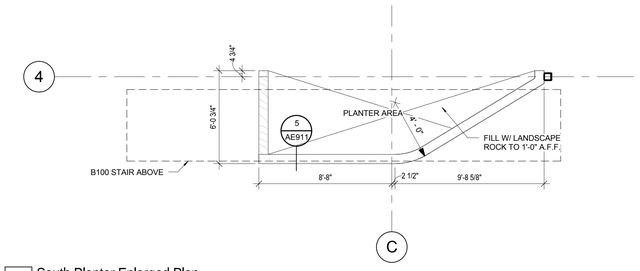
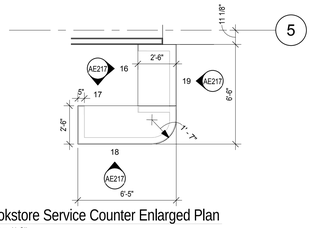


1 Lounge/Cafeteria Enlarged Plan
1/4" = 1'-0"



2 South Planter Enlarged Plan
1/4" = 1'-0"



3 Bookstore Service Counter Enlarged Plan
1/4" = 1'-0"

GENERAL ENLARGED FLOOR PLAN NOTES	
1	SEE 1/AE901 FOR TYPCIAL MOUNTING HEIGHTS

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6710870
JOSEPH FLINT SMITH
STATE OF UTAH
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DFCM PROJECT #11064280

project#: 11.0420
date: 1/20/2012

revisions :

Lvl 1 Enlarged Floor Plans

sheet:

AE402

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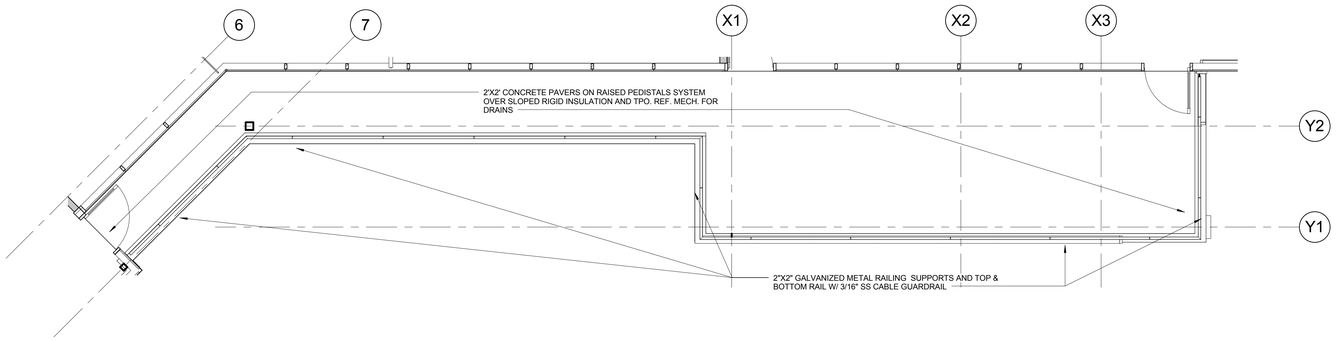
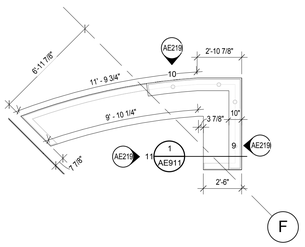
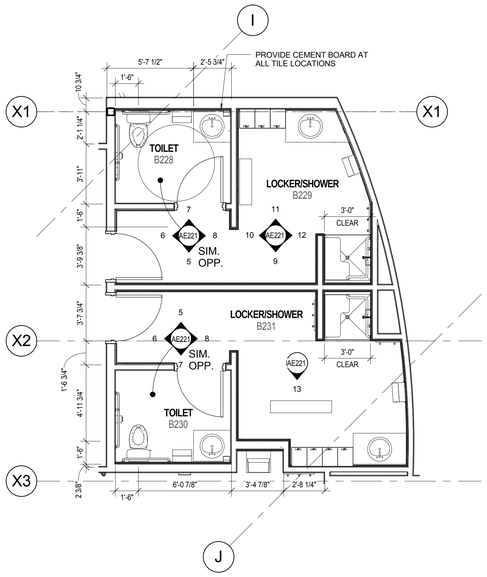


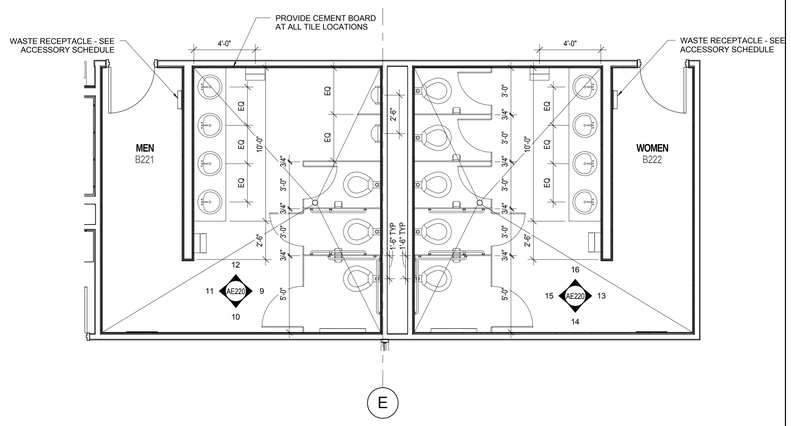
3 Enlarged Balcony Plan
1/4" = 1'-0"



4 LEVEL 2 RECEPTION
1/4" = 1'-0"



2 B228-B231 Locker Enlarged Plan
1/4" = 1'-0"



1 B221-B222 Men/Women Enlarged Plan
1/4" = 1'-0"

GENERAL ENLARGED FLOOR PLAN NOTES

1	SEE 1/AE901 FOR TYPCIAL MOUNTING HEIGHTS

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6710870
JOSEPH FLINT SMITH
STATE OF UTAH
01.20.12

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DFCM PROJECT #11064280

project#: 11.0420
date: 1/20/2012

revisions :

Lvl 2 Enlarged Floor Plans

sheet:

AE403

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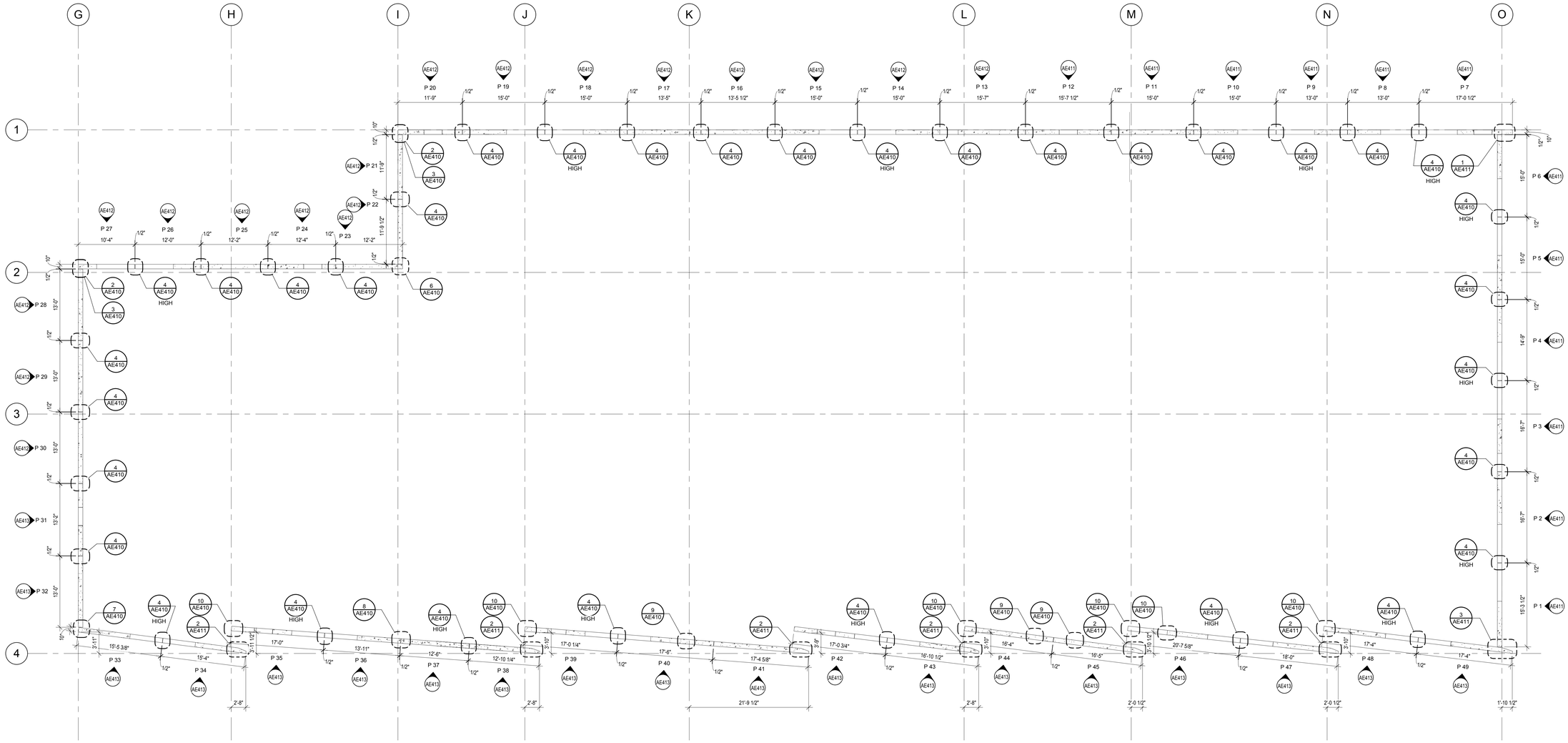
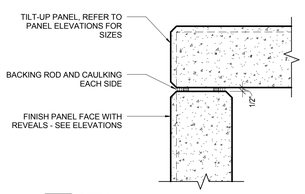
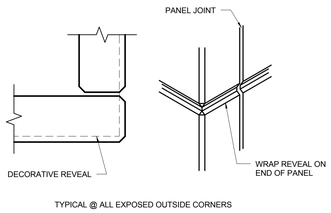


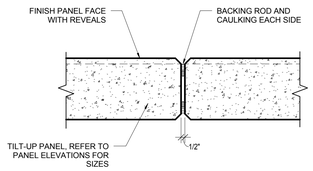
1 TILT-UP PLAN
1/8" = 1'-0"



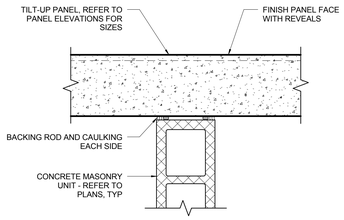
2 DETAIL
1 1/2" = 1'-0"



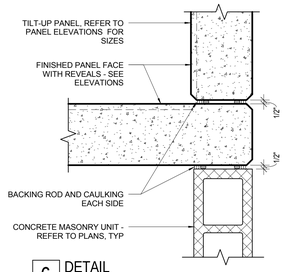
3 CORNER REVEAL
1 1/2" = 1'-0"



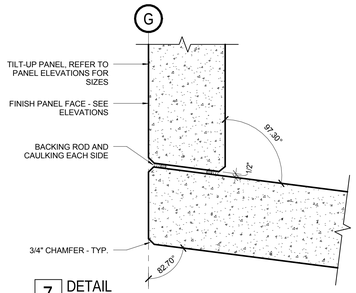
4 DETAIL
1 1/2" = 1'-0"



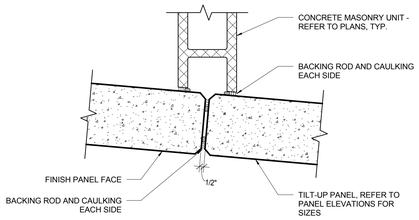
5 DETAIL
1 1/2" = 1'-0"



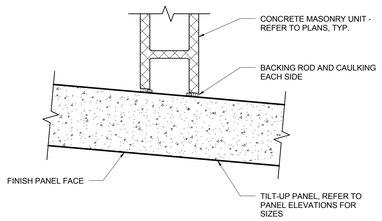
6 DETAIL
1 1/2" = 1'-0"



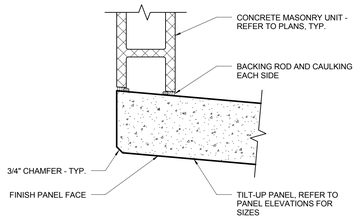
7 DETAIL
1 1/2" = 1'-0"



8 DETAIL
1 1/2" = 1'-0"



9 DETAIL
1 1/2" = 1'-0"



10 DETAIL
1 1/2" = 1'-0"

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DFCM PROJECT #11064280

project#: 11.0420
date: 1/20/2012

revisions :

Tilt-up Plan & Details

sheet:

AE410

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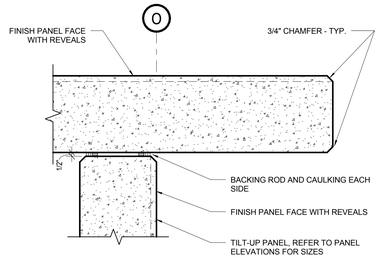
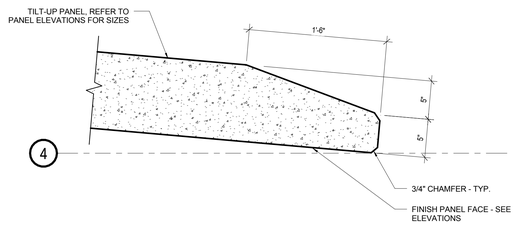
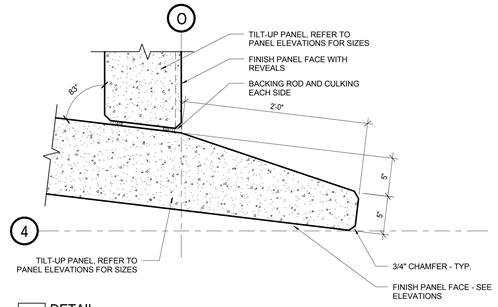


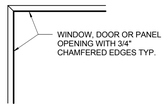
1 DETAIL
1 1/2" = 1'-0"



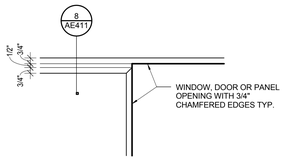
2 DETAIL
1 1/2" = 1'-0"



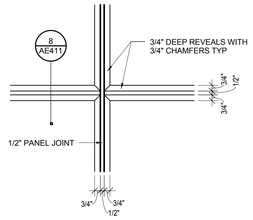
3 DETAIL
1 1/2" = 1'-0"



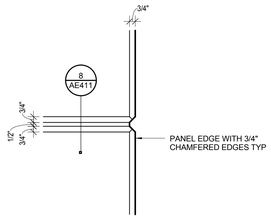
4 OPENING WITH 3/4" CHAMFERED EDGE
1 1/2" = 1'-0"



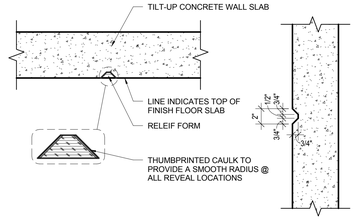
5 HORIZONTAL REVEAL ALIGNED WITH OPENING
1 1/2" = 1'-0"



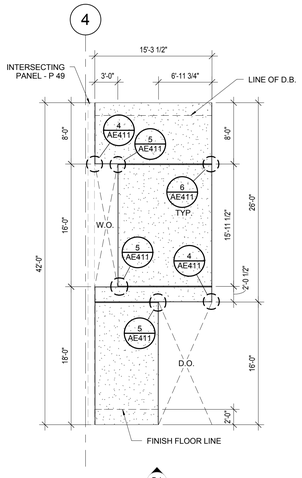
6 TYPICAL REVEAL @ PANEL JOINT
1 1/2" = 1'-0"



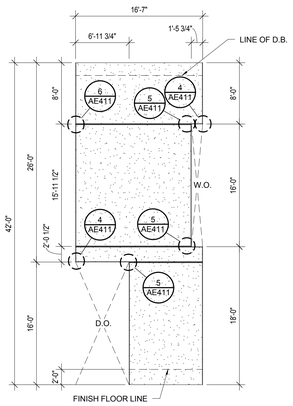
7 PANEL EDGE
1 1/2" = 1'-0"



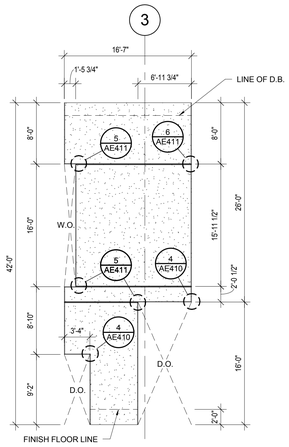
8 REVEAL PREPARATION
1 1/2" = 1'-0"



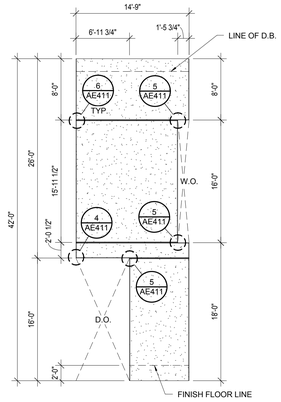
P 1
10" THICK FINISH FACE SAND BLAST



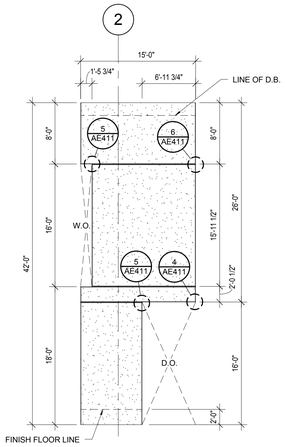
P 2
10" THICK FINISH FACE SAND BLAST



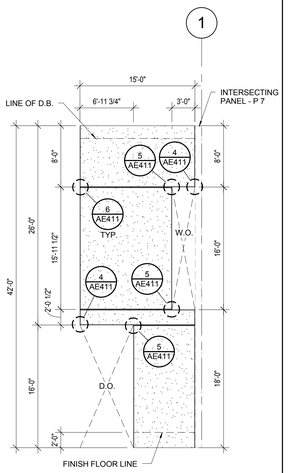
P 3
10" THICK FINISH FACE SAND BLAST



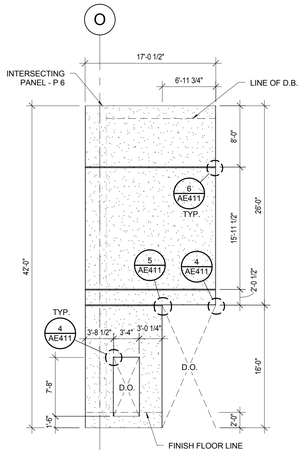
P 4
10" THICK FINISH FACE SAND BLAST



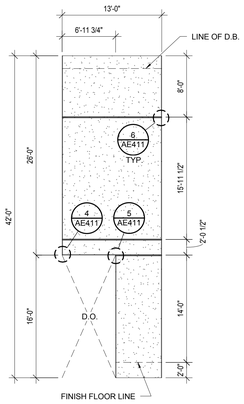
P 5
10" THICK FINISH FACE SAND BLAST



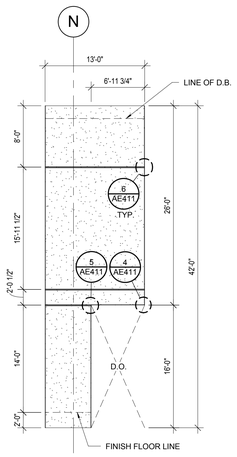
P 6
10" THICK FINISH FACE SAND BLAST



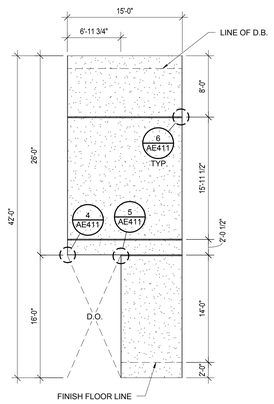
P 7
10" THICK FINISH FACE SAND BLAST



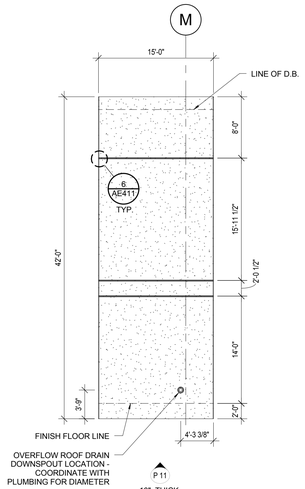
P 8
10" THICK FINISH FACE SAND BLAST



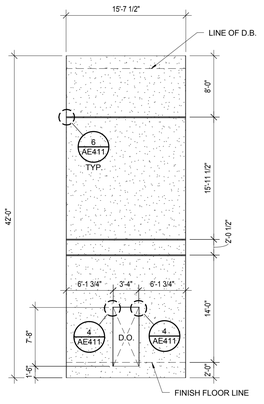
P 9
10" THICK FINISH FACE SAND BLAST



P 10
10" THICK FINISH FACE SAND BLAST



P 11
10" THICK FINISH FACE SAND BLAST



P 12
10" THICK FINISH FACE SAND BLAST

TILT-UP GENERAL NOTES

1 NOT ALL OPENINGS SHOWN - SEE MECHANICAL & ELECTRICAL DRAWINGS FOR ADDITIONAL PENETRATIONS - COORDINATE WITH STRUCTURAL

PANEL NOTE LEGEND

D.O. = DOOR OPENING
W.O. = WINDOW OPENING
M.O. = MECHANICAL OPENING
P.O. = PANEL OPENING

LICENSED ARCHITECT 6710870 JOSEPH FLINT SMITH STATE OF UTAH
01.20.12

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phone:(801) 532-4422

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project:
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88 South Tooele Blvd
Tooele, UT 84074

DFCM PROJECT #11064280

project#: 11.0420
date: 1/20/2012

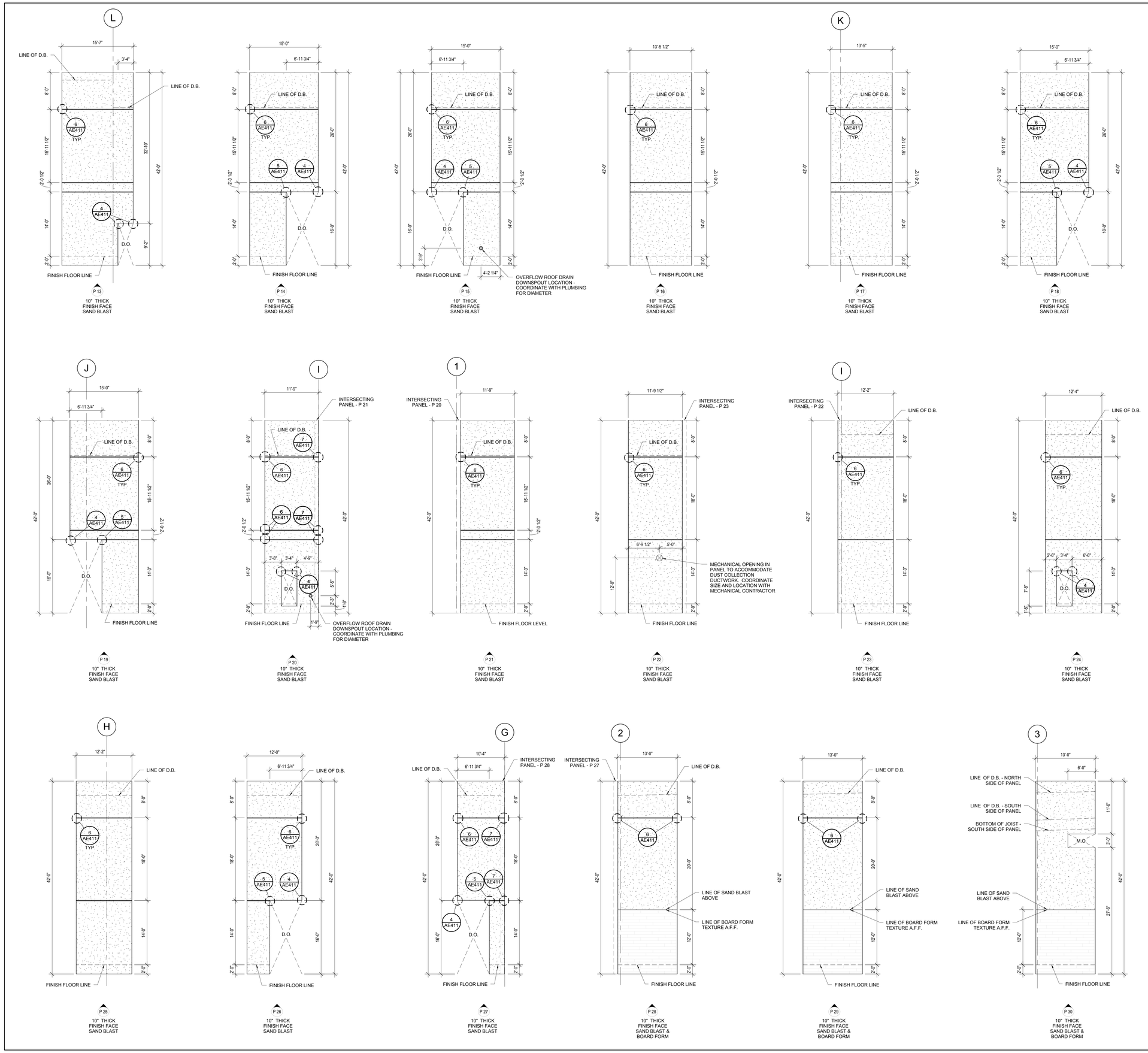
revisions :

Tilt-up Panel Elevations & Details

sheet:

AE411

100% Construction Documents



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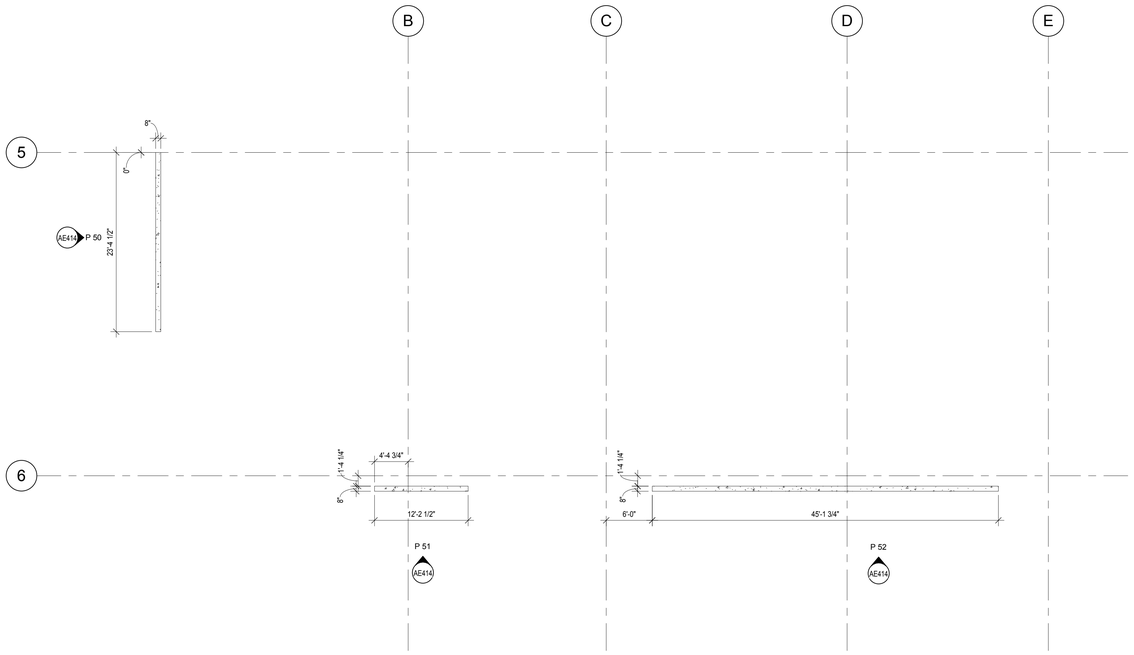
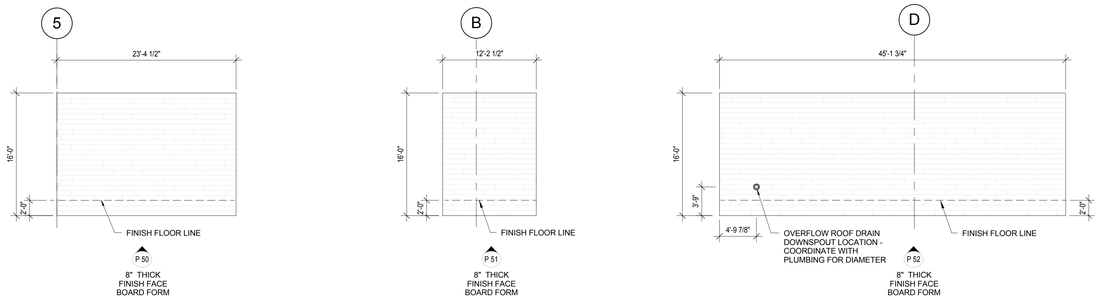


1 TILT-UP PLAN Multi-Purpose
1/8" = 1'-0"



TILT-UP GENERAL NOTES

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LICENSED ARCHITECT
6710870
JOSEPH FLINT SMITH
STATE OF UTAH
01.20.12

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revisions :

Tilt-up Plan & Panel Elevations

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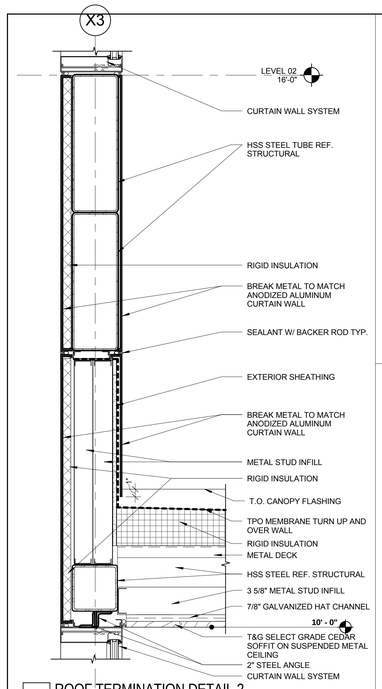
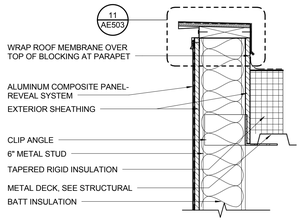
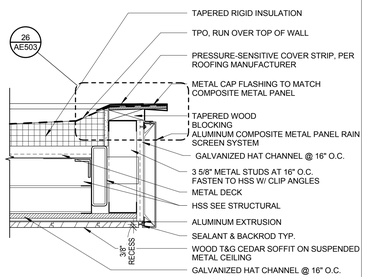


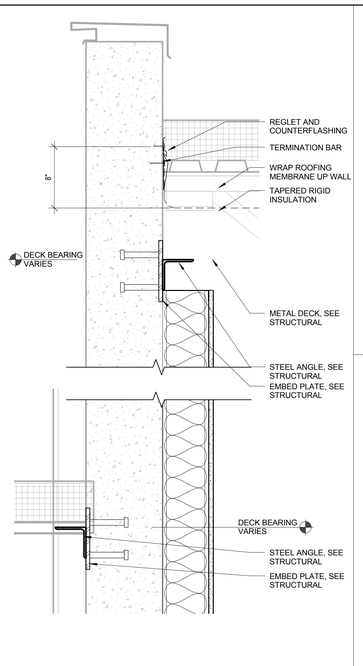
18 ROOF TERMINATION DETAIL 2
1 1/2" = 1'-0"



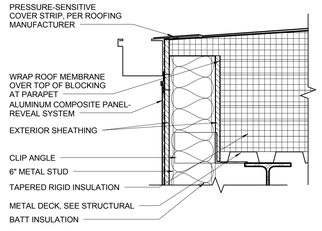
16 ROOF PARAPET DETAIL 3
1 1/2" = 1'-0"



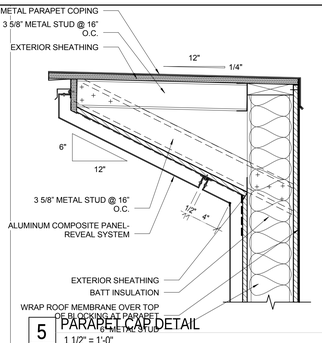
17 ROOF PARAPET DETAIL 17
1 1/2" = 1'-0"



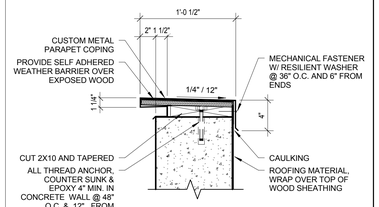
15 ROOF PARAPET DETAIL 13
1 1/2" = 1'-0"



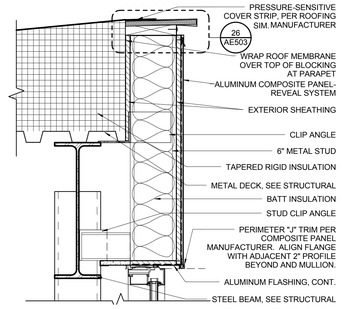
10 CLERESTORY DETAIL
1 1/2" = 1'-0"

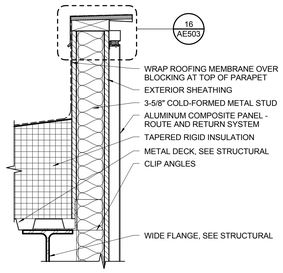


5 PARAPET CAP DETAIL
1 1/2" = 1'-0"

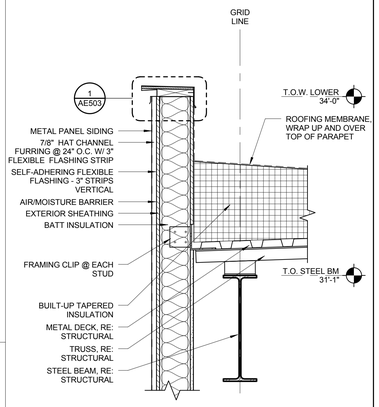


1 PARAPET DETAIL - CONCRETE WALL
1 1/2" = 1'-0"

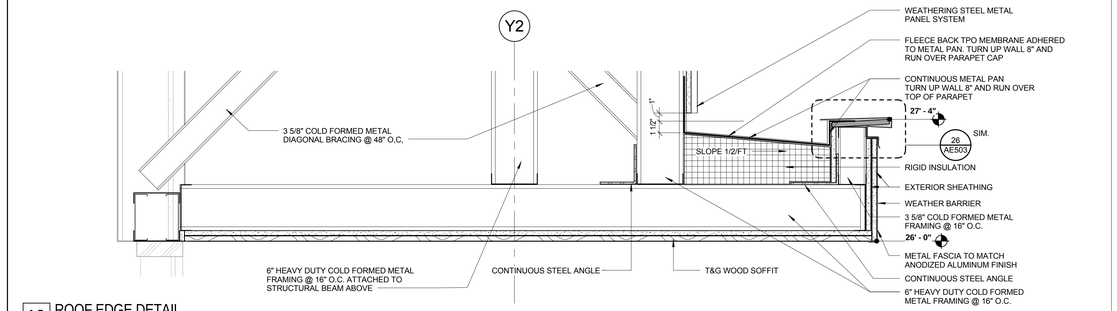




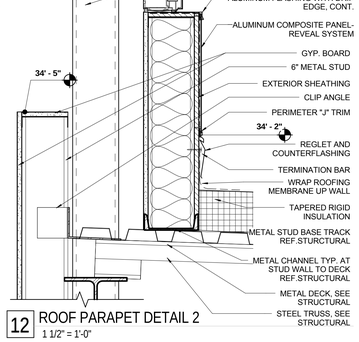
6 ROOF PARAPET DETAIL 11
1 1/2" = 1'-0"



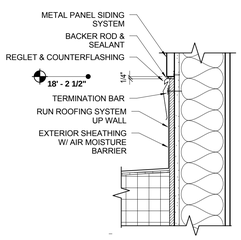
2 ROOF PARAPET DETAIL
1" = 1'-0"



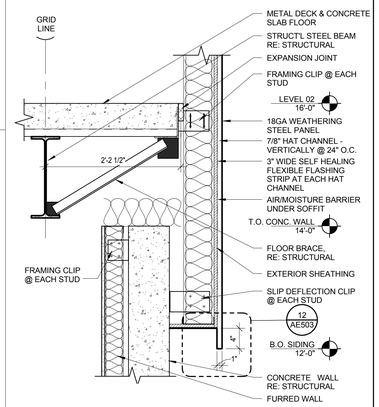
19 ROOF EDGE DETAIL
1 1/2" = 1'-0"



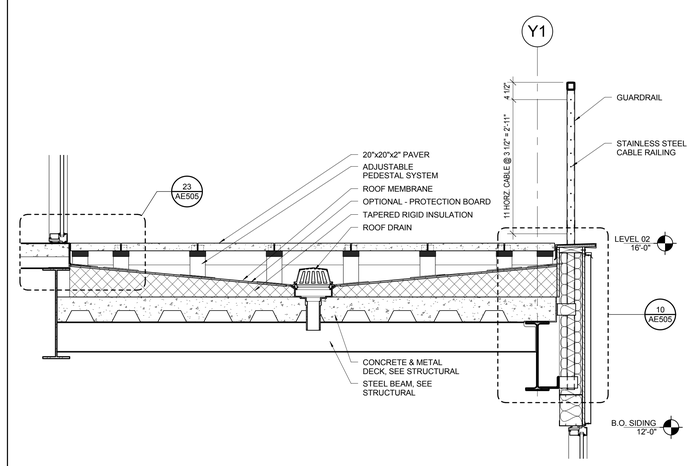
12 ROOF PARAPET DETAIL 2
1 1/2" = 1'-0"



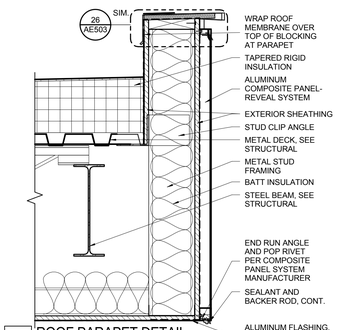
7 REGLET DETAIL
1 1/2" = 1'-0"



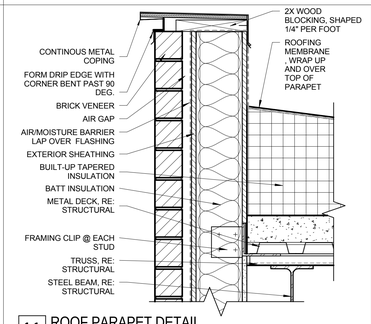
3 WALL TRANISTION DETAIL
1" = 1'-0"



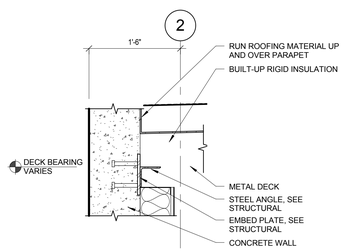
20 RAISED PAVER SECTION
3/4" = 1'-0"



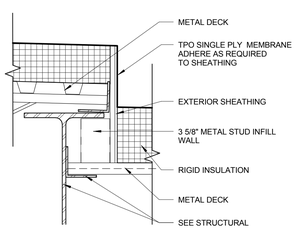
21 ROOF PARAPET DETAIL
1 1/2" = 1'-0"



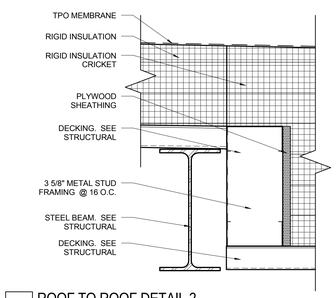
11 ROOF PARAPET DETAIL
1 1/2" = 1'-0"



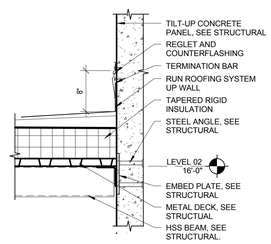
8 ROOF BEARING DETAIL
1" = 1'-0"



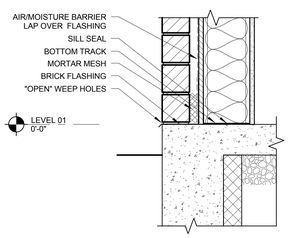
13 ROOF TO ROOF DETAIL
1 1/2" = 1'-0"



14 ROOF TO ROOF DETAIL 2
3" = 1'-0"



9 ROOF BEARING DETAIL
1" = 1'-0"



4 BRICK SILL FLASHING DETAIL
1 1/2" = 1'-0"

LICENSED ARCHITECT 6710870 JOSEPH FLINT SMITH STATE OF UTAH
01.20.12

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METHOD STUDIO INC.
925 south west temple
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project:
TOOELE APPLIED TECHNOLOGY COLLEGE - NEW BUILDING

88 South Tooele Blvd
Tooele, UT 84074

DFCM PROJECT #11064280

project#: 11.0420
date: 1/20/2012

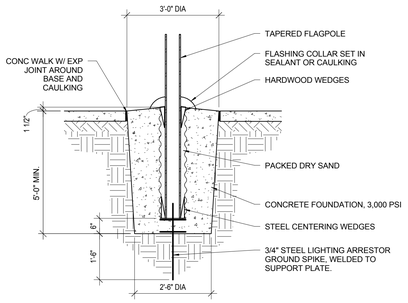
revisions :

Exterior Details

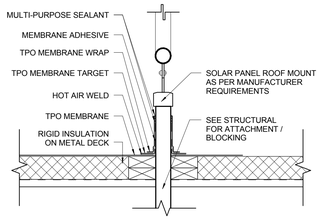
sheet:

AE501

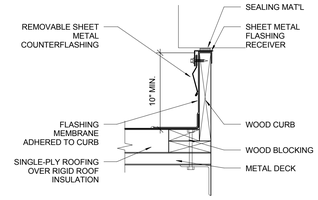
100% Construction Documents



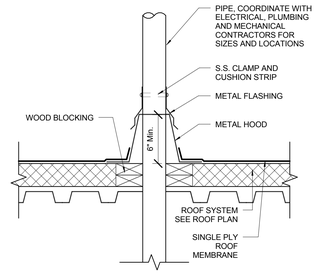
12 FLAG POLE DETAIL
1/2" = 1'-0"



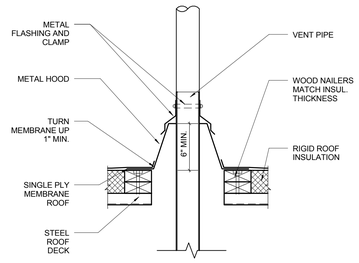
9 PHOTOVOLTAIC STAND TO ROOF ATTACHMENT
1 1/2" = 1'-0"



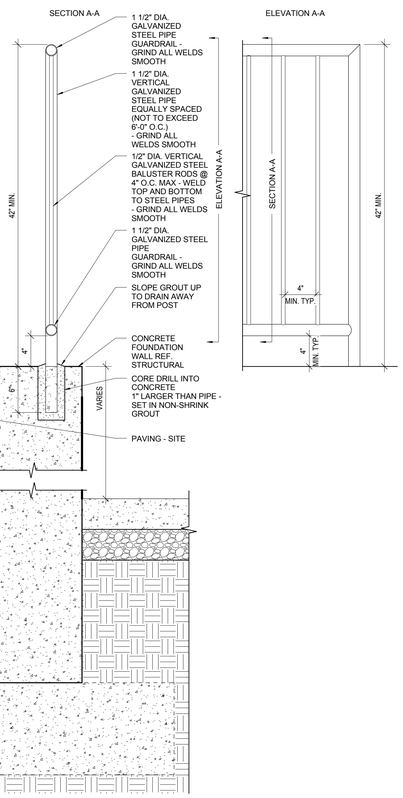
7 EQUIP CURB
1 1/2" = 1'-0"



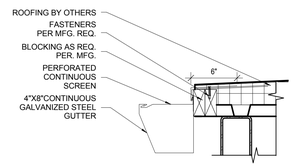
5 DETAIL
1 1/2" = 1'-0"



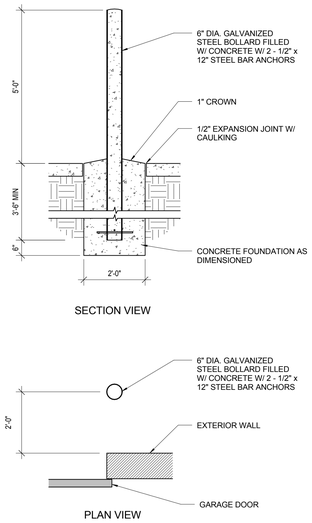
1 WARM PIPE VENT DETAIL
1 1/2" = 1'-0"



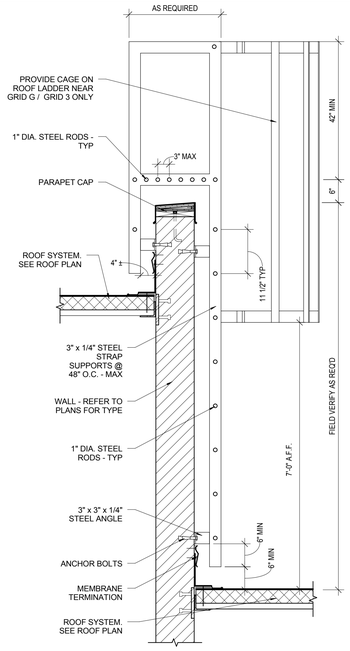
13 LOADING DOCK SECTION
1 1/2" = 1'-0"



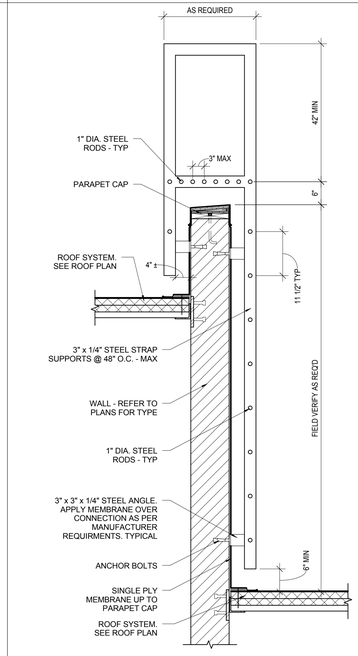
10 GUTTER DETAIL
1 1/2" = 1'-0"



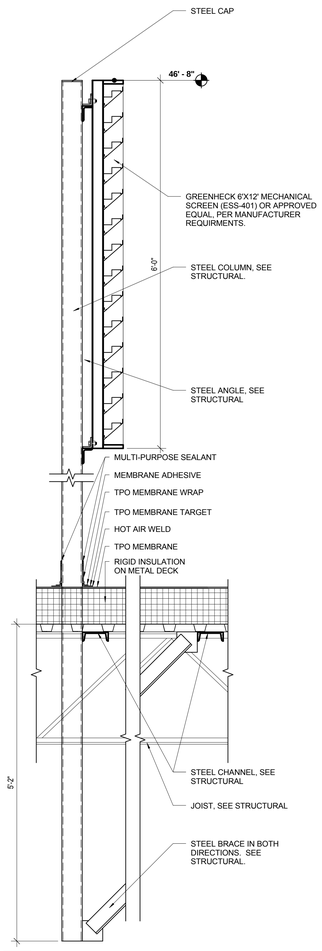
8 SITE BOLLARD DETAIL
1/2" = 1'-0"



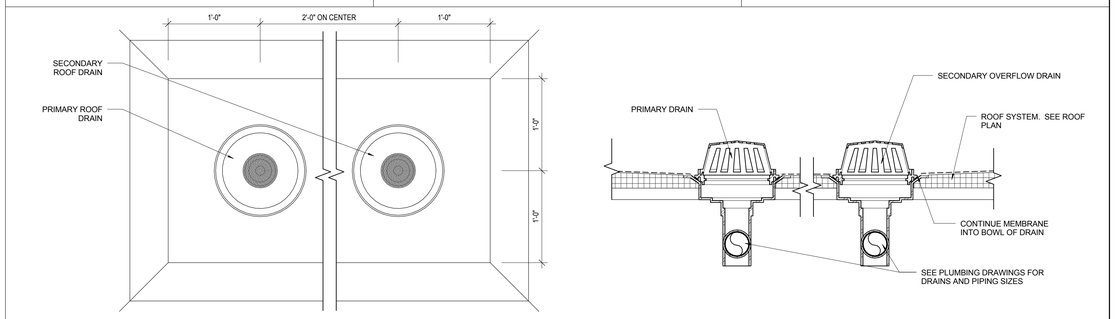
6 ROOF LADDER W/ MEMBRANE TERMINATIONS
3/4" = 1'-0"



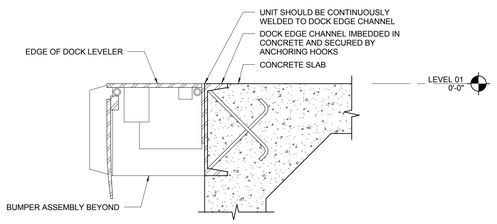
2 ROOF LADDER - MEMBRANE TO PARAPET CAP
3/4" = 1'-0"



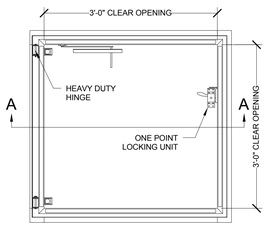
11 MECHANICAL SCREEN DETAIL
1" = 1'-0"



3 ROOF DRAIN DETAIL
1 1/2" = 1'-0"

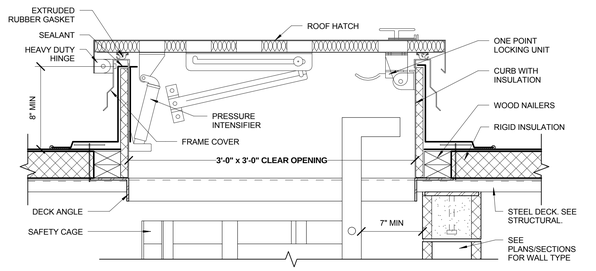


14 EDGE OF DOCK LEVELER DETAIL
1 1/2" = 1'-0"



NOTES:

1. ALL MOUNTING HARDWARE TO BE SUPPLIED BY OTHERS.
2. FOR OPERATING EFFICIENCY, THE NUMBER OF PRESSURE INTENSIFIERS VARIES WITH THE SIZE OF THE HATCH.



SECTION A-A

4 ROOF HATCH PLAN/SECTION
1 1/2" = 1'-0"

LICENSED ARCHITECT
6710870
JOSEPH FLINT SMITH
STATE OF UTAH
01.20.12

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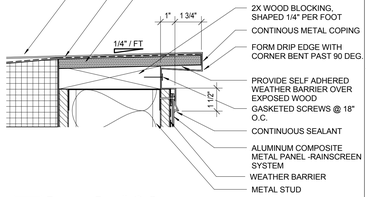
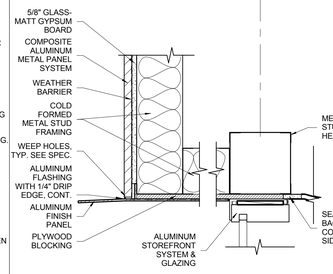
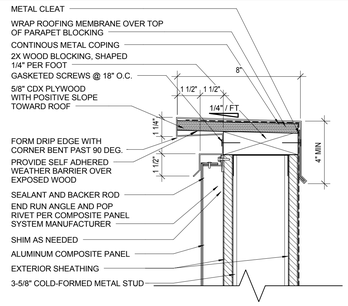


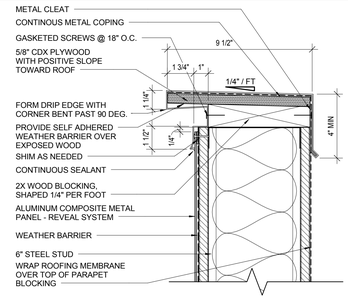
26 Parapet Detail @ Canopy
3" = 1'-0"



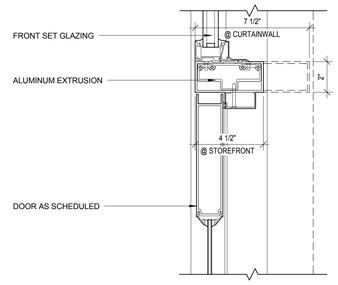
21 Head Detail
1 1/2" = 1'-0"



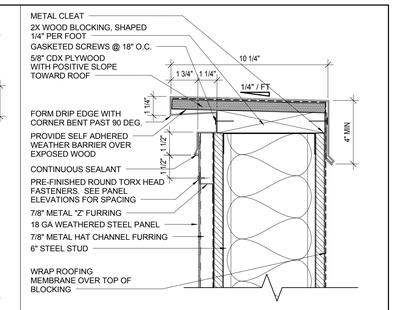
16 Parapet @ Route & Return Panel
3" = 1'-0"



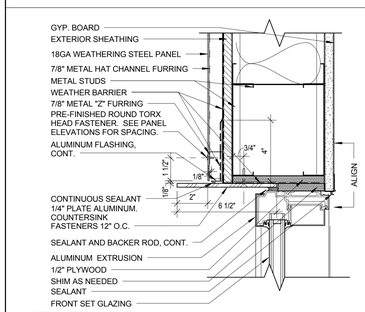
11 Metal Panel- Reveal System @ Parapet
3" = 1'-0"



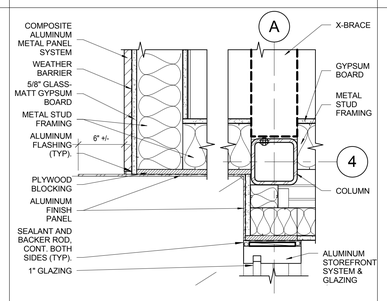
6 SF/CW Door Head/Jamb
3" = 1'-0"



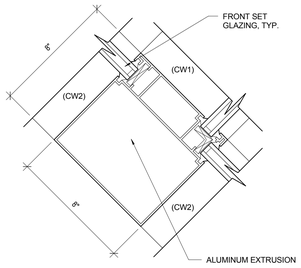
1 WEATHERED STEEL PANEL @ PARAPET
3" = 1'-0"



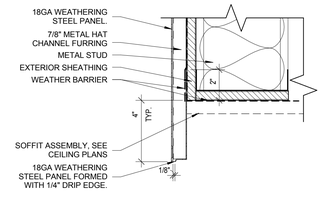
27 SF Head @ Aluminum Shroud
3" = 1'-0"



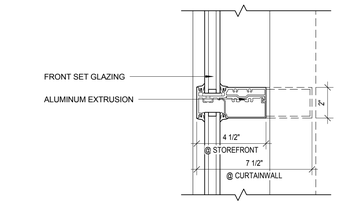
22 Jamb Detail @ 2nd Floor
1 1/2" = 1'-0"



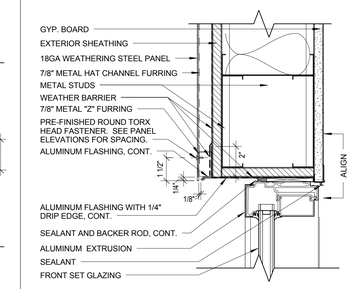
17 CW Intersection 2
3" = 1'-0"



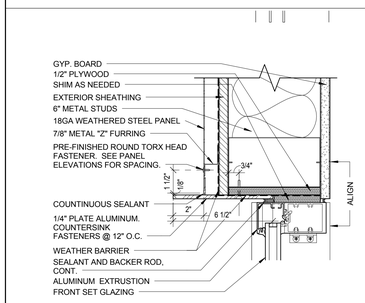
12 Weathered Steel Panel Soffit Transition
3" = 1'-0"



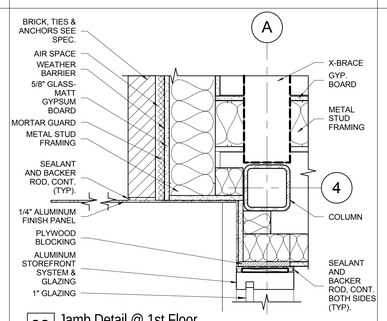
7 SF/CW Horizontal Mullion
3" = 1'-0"



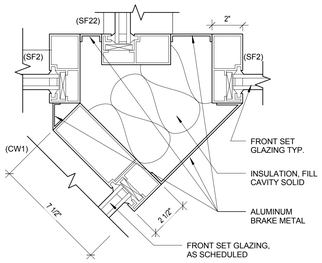
2 SF Head @ Weathered Steel Panel
3" = 1'-0"



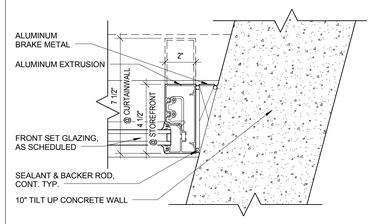
28 SF Jamb @ Aluminum Shroud
3" = 1'-0"



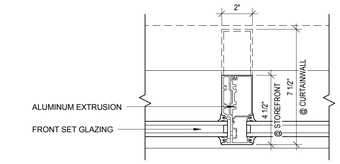
23 Jamb Detail @ 1st Floor
1 1/2" = 1'-0"



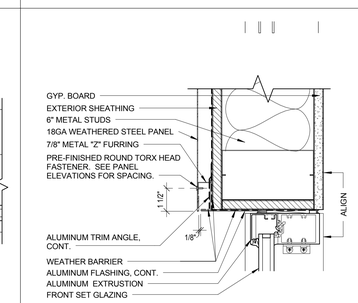
18 CW/SF Intersection
3" = 1'-0"



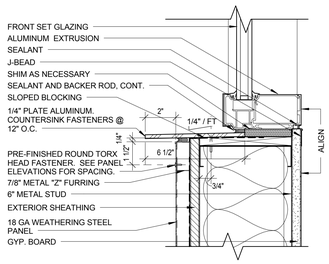
13 SF Jamb @ Angled Tilt Up Wall
3" = 1'-0"



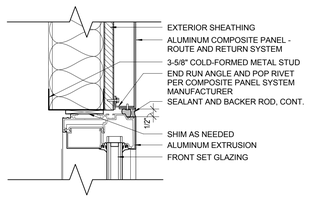
8 SF/CW Vertical Mullion - Full
3" = 1'-0"



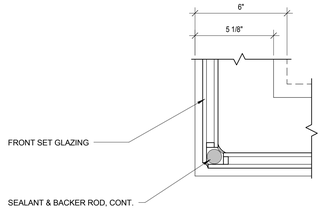
3 SF Jamb @ Weathered Steel Panel
3" = 1'-0"



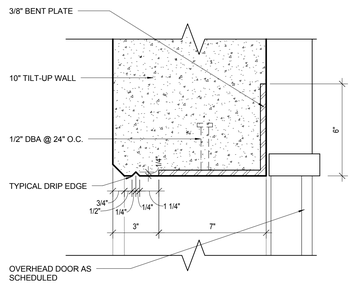
29 SF Sill @ Aluminum Shroud
3" = 1'-0"



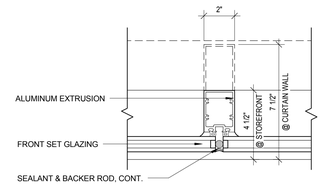
24 SF Head @ Route & Return Panel
3" = 1'-0"



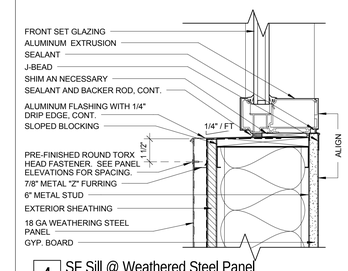
19 SF Butt Glazed Corner
3" = 1'-0"



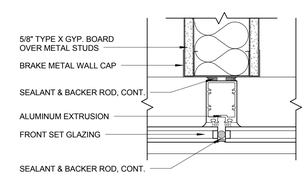
14 Bent Plate Frame - Head
3" = 1'-0"



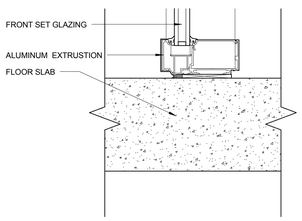
9 SF/CW Vertical Mullion - Front Set
3" = 1'-0"



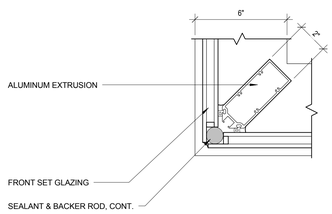
4 SF Sill @ Weathered Steel Panel
3" = 1'-0"



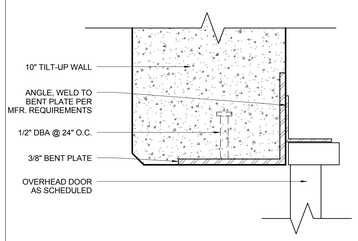
30 SF Wall/Mullion Intersection
3" = 1'-0"



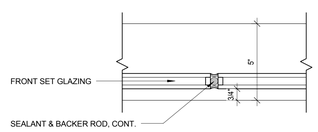
25 SF Sill @ Int. Floor
3" = 1'-0"



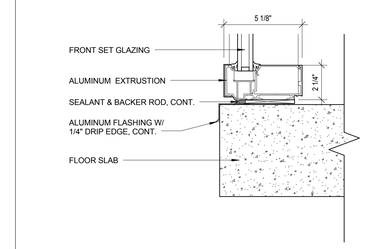
20 SF Front Set Corner
3" = 1'-0"



15 Bent Plate Frame - Jamb
3" = 1'-0"



10 SF Butt Glazing
3" = 1'-0"



5 SF Sill @ Ext Floor
3" = 1'-0"

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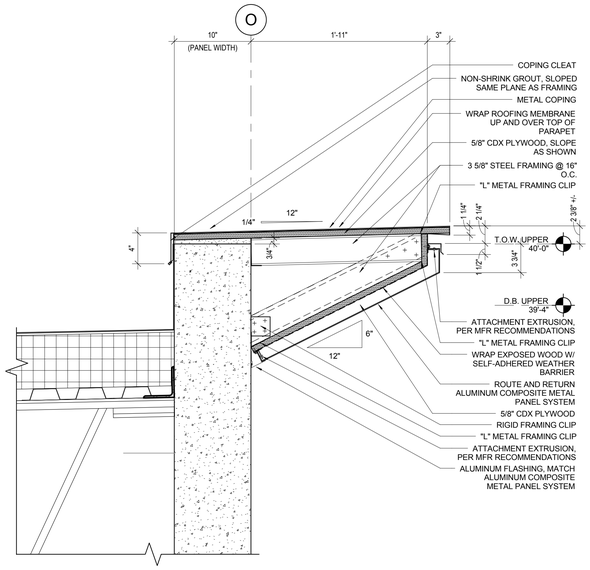
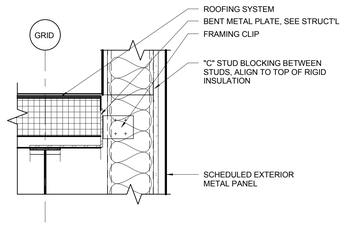
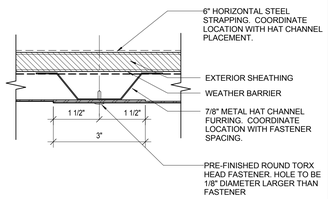


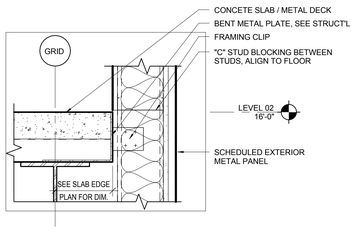
9 PARAPET DETAIL
1 1/2" = 1'-0"



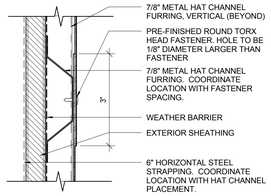
8 CONNECTION DETAIL
1 1/2" = 1'-0"



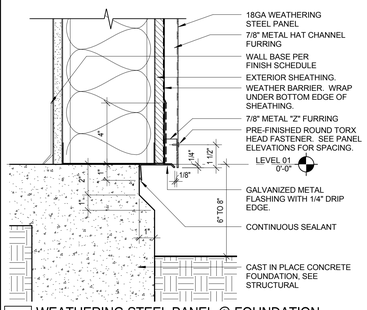
5 WEATHERED PANEL LAP @ VERTICAL JOINT
6" = 1'-0"



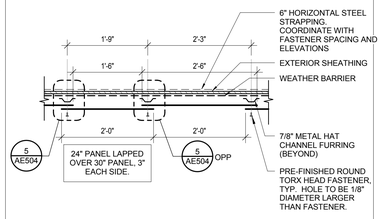
7 FRAMING CONNECTION DETAIL
1 1/2" = 1'-0"



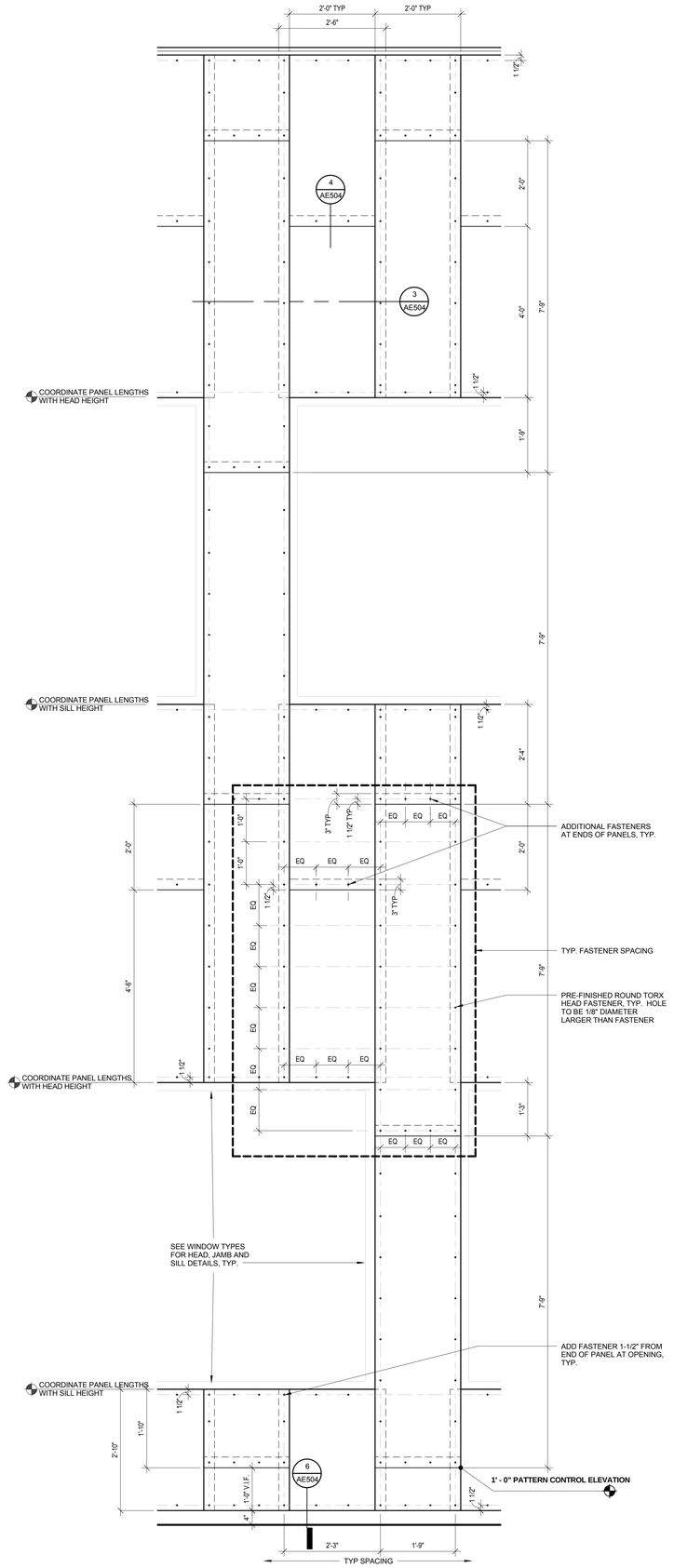
4 WEATHERED PANEL LAP @ HORIZONTAL JOINT
6" = 1'-0"



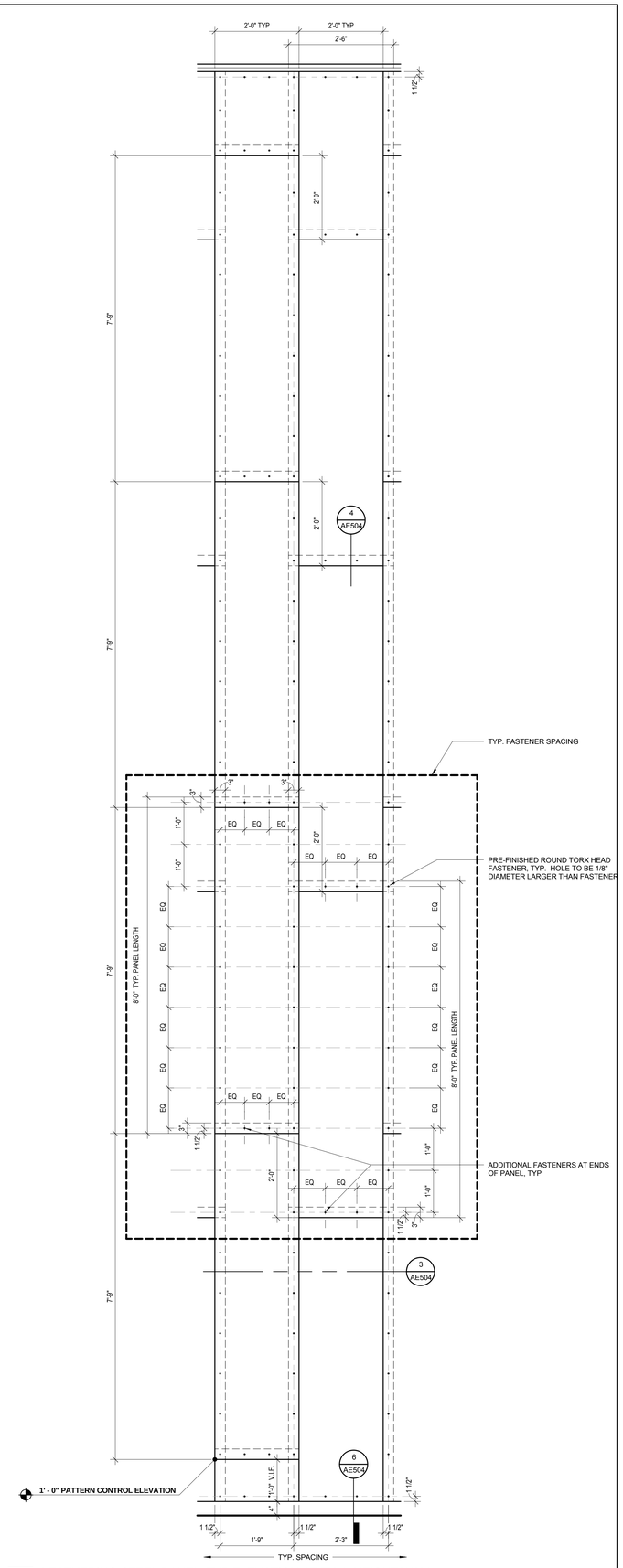
6 WEATHERING STEEL PANEL @ FOUNDATION
3" = 1'-0"



3 WEATHERING STEEL PANEL DETAIL, TYP
3/4" = 1'-0"



2 WEATHERING STEEL PANEL, TYP ELEVATION AT OPENINGS
3/4" = 1'-0"



1 WEATHERING STEEL PANEL, TYP ELEVATION AT FULL-HEIGHT WALL
3/4" = 1'-0"

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project:
TOOELE APPLIED TECHNOLOGY COLLEGE - NEW BUILDING

88 South Tooele Blvd
Tooele, UT 84074

DFCM PROJECT #11064280

project#: 11.0420
date: 1/20/2012

revisions :

title:
Exterior Details

sheet:
AE504

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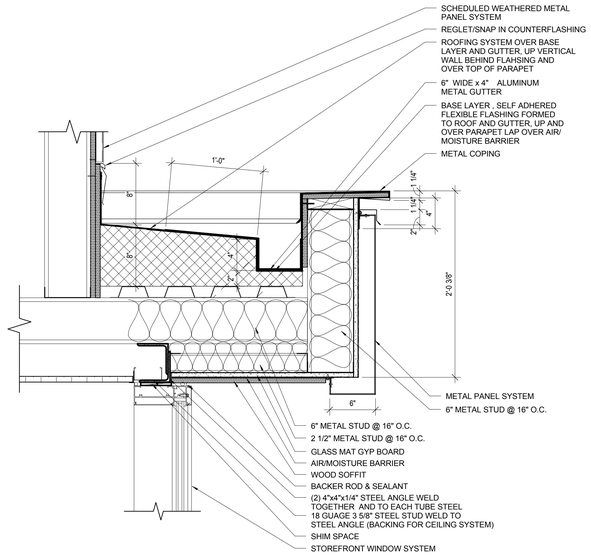
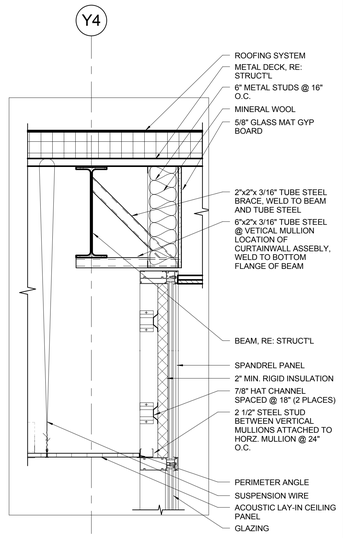
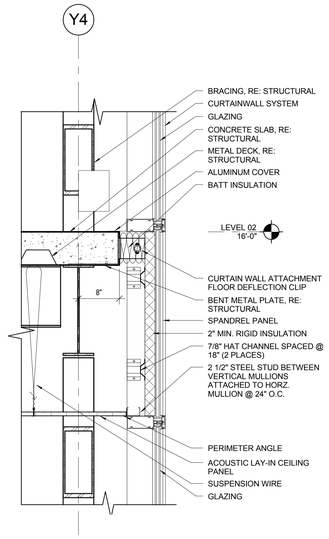


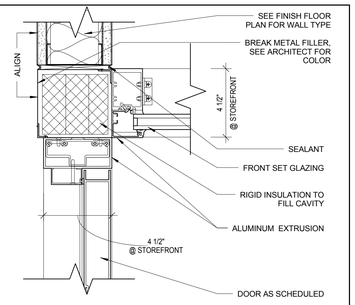
22 ROOF EYEBROW DETAIL
1 1/2" = 1'-0"



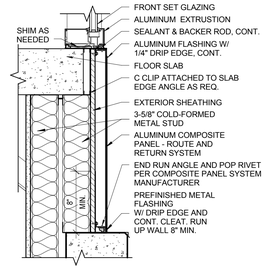
12 CONNECTION DETAIL @ CURTAINWALL
1" = 1'-0"



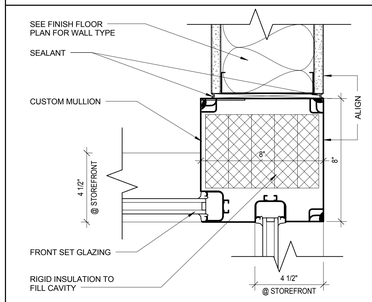
7 CONNECTION DETAIL @ SLAB/CURTAINWALL
1" = 1'-0"



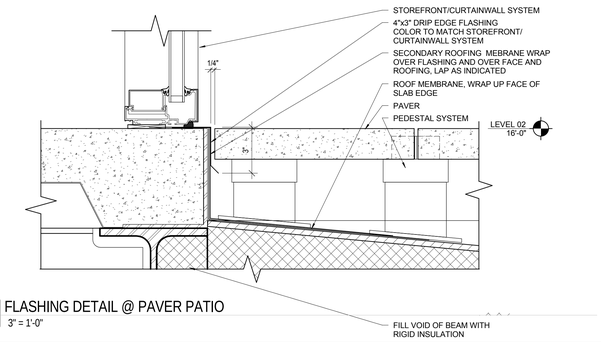
1 SF Corner Plan Detail
3" = 1'-0"



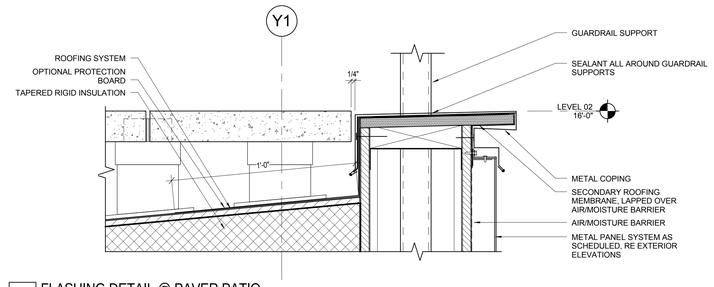
2 METAL PANEL@SLABEDGE-STOREFRONT
1 1/2" = 1'-0"



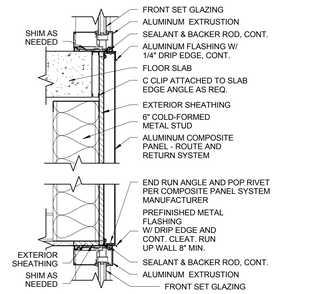
28 Corner Mullion Detail
3" = 1'-0"



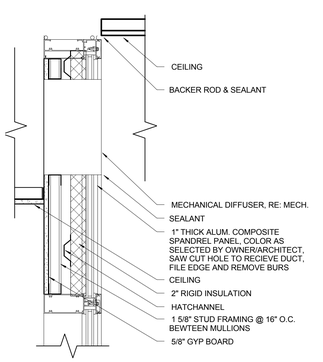
23 FLASHING DETAIL @ PAVER PATIO
3" = 1'-0"



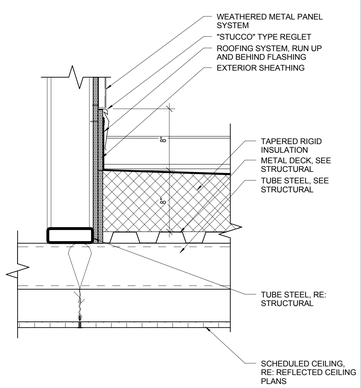
13 FLASHING DETAIL @ PAVER PATIO
3" = 1'-0"



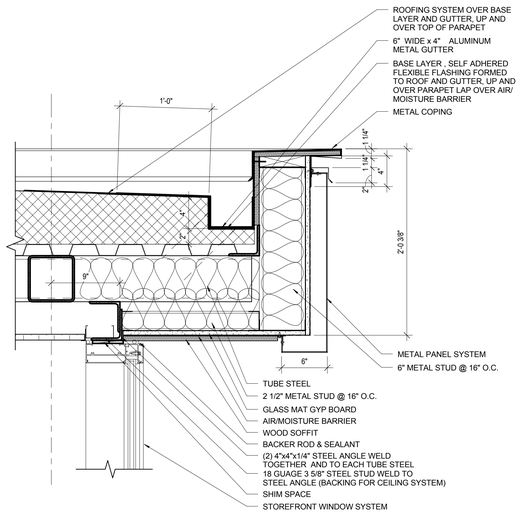
3 STOREFRONT @ METAL PANEL SYSTEM
1 1/2" = 1'-0"



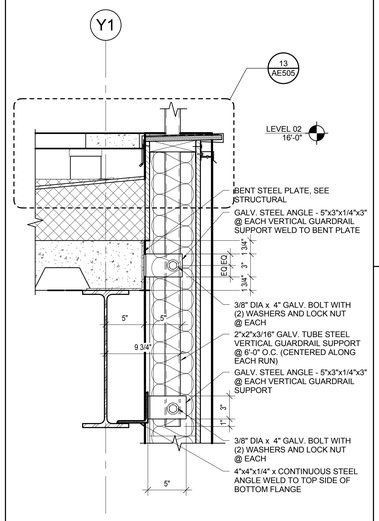
30 Callout of BSY01-WS02
1 1/2" = 1'-0"



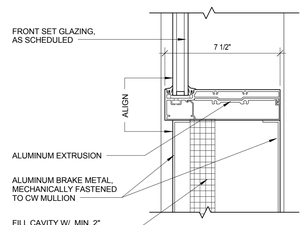
25 REGLET FLASHING DETAIL
1 1/2" = 1'-0"



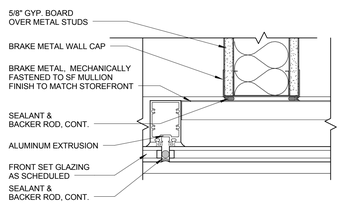
20 DETAIL @ GUTTER
1 1/2" = 1'-0"



10 GUARDRAIL CONNECTION DETAIL
1 1/2" = 1'-0"



4 CW HORIZONTAL MULLION - BRAKE METAL
3" = 1'-0"



5 SF/WALL MULLION INTERSECTION (OFFSET)
3" = 1'-0"

LICENSED ARCHITECT
6710870
JOSEPH FLINT SMITH
STATE OF UTAH
01.20.12

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DFCM PROJECT #11064280

project#: 11.0420
date: 1/20/2012

revisions :

Exterior Details

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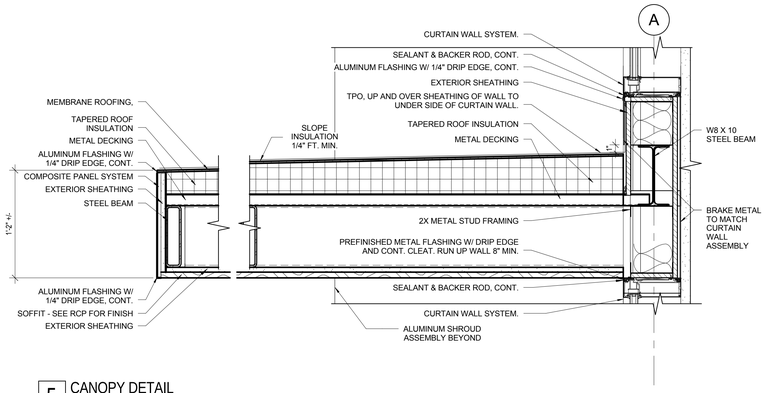
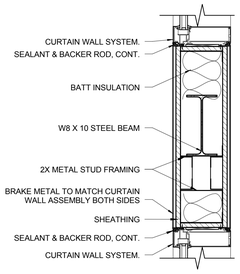
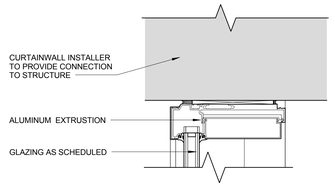


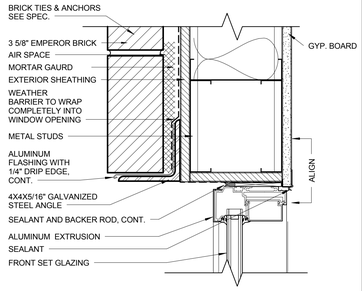
5 CANOPY DETAIL
1 1/2" = 1'-0"



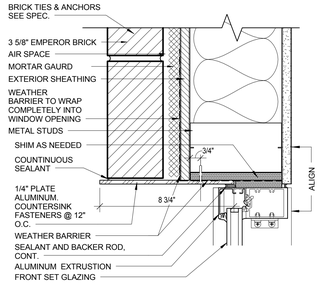
1 CURTAIN WALL
1 1/2" = 1'-0"



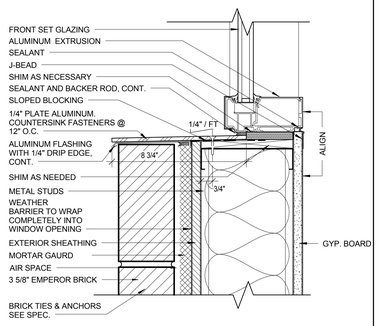
6 CW Head
3" = 1'-0"



2 HEAD DETAIL
3" = 1'-0"



3 JAMB DETAIL
3" = 1'-0"



4 SILL DETAIL
3" = 1'-0"

LICENSED ARCHITECT
6710870
JOSEPH FLINT SMITH
STATE OF UTAH
01.20.12

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DOOR SCHEDULE

Number	Door Width	Door Height	Door Thickness	Door Type	Hardware Set	Door Finish	Door Material	Frame Type	Frame Material	Frame Finish	Comments
	6'-0"	6'-10 3/4"									Low-E Coated Glass
A100A	6'-0"	7'-0"	0'-1 3/4"	D10	11	STN	WD	F5	HM	PNT	
A100B	6'-0"	7'-0"	0'-1 3/4"	D10	11	STN	WD	F5	HM	PNT	
A100C	6'-0"	7'-0"	0'-1 3/4"	D2	11	STN	WD	F6	HM	PNT	
A101A	3'-0"	7'-0"	0'-1 3/4"	D8	15	STN	WD	F3	HM	PNT	
A101B	3'-0"	7'-0"	0'-1 3/4"	D8	16	CLR-A	AL	F3	AL	CLR-A	Provide Sound Seal
A102	3'-0"	7'-0"	0'-1 3/4"	D8	15	STN	WD	F1	HM	PNT	
A103	3'-0"	7'-0"	0'-1 3/4"	D6	15	STN	WD	F1	HM	PNT	
A105	3'-0"	7'-0"	0'-1 3/4"	D8	15	STN	WD	F1	HM	PNT	
A106	3'-0"	7'-0"	0'-1 3/4"	D6	15	STN	WD	F1	HM	PNT	
A107	3'-0"	7'-0"	0'-1 3/4"	D6	15	STN	WD	F1	HM	PNT	
A108	4'-0"	7'-0"	0'-1 3/4"	D11	14	STN	WD	F1	HM	PNT	
A110	3'-0"	7'-0"	0'-1 3/4"	D6	15	STN	WD	F3	HM	PNT	
A111	3'-0"	7'-0"	0'-1 3/4"	D6	15	STN	WD	F3	HM	PNT	
A112	3'-0"	7'-0"	0'-1 3/4"	D6	15	STN	WD	F3	HM	PNT	
A113	3'-0"	7'-0"	0'-1 3/4"	D6	20	STN	WD	F1	HM	PNT	
A114	3'-0"	7'-0"	0'-1 3/4"	D6	15	STN	WD	F1	HM	PNT	
A115	3'-0"	7'-0"	0'-1 3/4"	D6	21	STN	WD	F1	HM	PNT	
A116	3'-0"	7'-0"	0'-1 3/4"	D6	15	STN	WD	F3	HM	PNT	
A117	4'-0"	7'-0"	0'-1 3/4"	D6	15	STN	WD	F1	HM	PNT	
A118	3'-0"	7'-0"	0'-1 3/4"	D6	25	PNT	HM	F1	HM	PNT	
A119	3'-0"	7'-0"	0'-1 3/4"	D8	15	STN	WD	F1	HM	PNT	
A120	3'-0"	7'-0"	0'-1 3/4"	D8	15	STN	WD	F1	HM	PNT	
A120B	4'-0"	7'-0"	0'-1 3/4"	D6	15	STN	WD	F1	HM	PNT	
A121	3'-0"	7'-0"	0'-1 3/4"	D1	05	PNT	HM	F1	HM	PNT	
A123	3'-0"	7'-0"	0'-1 3/4"	D6	20	STN	WD	F1	HM	PNT	
A124	3'-0"	7'-0"	0'-1 3/4"	D6	20	STN	WD	F1	HM	PNT	
A125	4'-0"	7'-0"	0'-1 3/4"	D7	16	STN	WD	F1	HM	PNT	
A125A	6'-0"	7'-0"	0'-1 3/4"	D2	11	STN	WD	F5	HM	PNT	
A126	3'-0"	7'-0"	0'-1 3/4"	D7	15	STN	WD	F1	HM	PNT	
A127	3'-0"	7'-0"	0'-1 3/4"	D7	15	STN	WD	F1	HM	PNT	
A129	3'-0"	7'-0"	0'-1 3/4"	D6	15	STN	WD	F1	HM	PNT	
A130	3'-0"	7'-0"	0'-1 3/4"	D1	02	PNT	HM	F1	HM	PNT	
A201	3'-0"	7'-0"	0'-1 3/4"	D6	16	CLR-A	WD	F3	AL	CLR-A	
A202	3'-0"	7'-0"	0'-1 3/4"	D8	15	STN	WD	F1	HM	PNT	
A203	3'-0"	7'-0"	0'-1 3/4"	D8	15	STN	WD	F7	HM	PNT	
A204	3'-0"	7'-0"	0'-1 3/4"	D6	16	CLR-A	WD	F3	AL	CLR-A	
A205	3'-0"	7'-0"	0'-1 3/4"	D6	16	CLR-A	WD	F3	AL	CLR-A	
A206	3'-0"	7'-0"	0'-1 3/4"	D8	15	STN	WD	F7	HM	PNT	
A207	3'-0"	7'-0"	0'-1 3/4"	D6	16	CLR-A	WD	F3	AL	CLR-A	
A208	3'-0"	7'-0"	0'-1 3/4"	D6	15	STN	WD	F1	HM	PNT	
A209	3'-0"	7'-0"	0'-1 3/4"	D6	15	STN	WD	F1	HM	PNT	
A210	3'-0"	7'-0"	0'-1 3/4"	D6	16	CLR-A	WD	F1	AL	CLR-A	
A211	3'-0"	7'-0"	0'-1 3/4"	D6	16	CLR-A	WD	F1	AL	CLR-A	
A212	3'-0"	7'-0"	0'-1 3/4"	D6	16	CLR-A	WD	F1	AL	CLR-A	
B100A	6'-0"	7'-0"	0'-1 3/4"	D10	28	CLR-A	WD	F5	AL	CLR-A	Magnetic Hold Open, Tied to Fire Alarm System
B100B	3'-0"	7'-0"	0'-1 3/4"	D8	18	STN	WD	F1	AL	CLR-A	Provide Sound Seal
B100C	3'-0"	7'-0"	0'-1 3/4"	D8	18	STN	WD	F1	AL	CLR-A	Provide Sound Seal
B100D	3'-0"	7'-0"	0'-1 3/4"	D8	27	STN	WD	F1	AL	CLR-A	Provide Sound Seal
B100E	3'-0"	7'-0"	0'-1 3/4"	D8	27	STN	WD	F1	AL	CLR-A	Provide Sound Seal
B101AA	6'-0"	7'-0"		D13	B	CLR-A	AL	See CW6 (Sheet AE603)	AL	CLR-A	Provide ADA accessible automatic door opening system
B101AB	6'-0"	7'-0"		D13	A	CLR-A	AL	See CW1 (Sheet AE602	AL	CLR-A	Provide card reader, ADA accessible automatic door opening system
B101AC	6'-0"	7'-0"		D13	C	CLR-A	AL	See CW1 (Sheet AE602)	AL	CLR-A	
B101AD	6'-0"	7'-0"		D13	D	CLR-A	AL	See CW6 (Sheet AE603)	AL	CLR-A	
B101B	3'-0"	7'-0"	0'-1 3/4"	D8	27	STN	WD	F1	AL	CLR-A	Provide Premium Sound Seal
B101C	3'-0"	7'-0"	0'-1 3/4"	D8	27	STN	WD	F1	AL	CLR-A	Provide Premium Sound Seal
B101D	3'-0"	7'-0"	0'-1 3/4"	D6	24	PNT	HM	F1	HM	PNT	
B102A	6'-0 3/128"	7'-0"		D13	D	CLR-A	AL	See CW5 (Sheet AE603)	AL	CLR-A	Provide ADA accessible automatic door opening system
B102B	6'-0 3/128"	6'-11 5/8"		D13	G	CLR-A	AL	See CW4 (Sheet AE603)	AL	CLR-A	Provide card reader, ADA accessible automatic door opening system
B103	6'-0"	7'-0"	0'-1 3/4"	D9	13	PNT	HM	F5	HM	PNT	
B103A	3'-9"	9'-10"		D12	E	CLR-A	AL	See SF17 (Sheet AE602)	AL	CLR-A	
B103B	3'-7"	9'-10"		D12	E	CLR-A	AL	See SF18 (Sheet AE603)	HM	CLR-A	
B104	1'-6"	7'-0"	0'-1 3/4"	D6	23	PNT	HM	F1	HM	PNT	
B105	3'-0"	7'-0"	0'-1 3/4"	D6	30	STN	WD	F1	AL	CLR-A	
B106	3'-0"	7'-0"	0'-1 3/4"	D6	30	STN	WD	F1	AL	CLR-A	
B107	3'-0"	7'-0"	0'-1 3/4"	D6	25	PNT	HM	F1	HM	PNT	
B108	3'-0"	7'-0"	0'-1 3/4"	D1	24	PNT	HM	F1	HM	PNT	
B108B	3'-0"	7'-0"	0'-1 3/4"	D6	24	PNT	HM	F1	HM	PNT	
B110AA	3'-0"	7'-0"	0'-1 3/4"	D8	22	PNT	HM	F1	HM	PNT	
B110AB	3'-0"	7'-0"	0'-1 3/4"	D8	22	PNT	HM	F1	HM	PNT	
B111	6'-0"	7'-0"		D13	G	CLR-A	AL	See SF11 (Sheet AE602)	AL	CLR-A	Rough-in for card reader
B113A	3'-0"	7'-0"	0'-1 3/4"	D6	16	STN	WD	F3	AL	CLR-A	
B113B	3'-0"	7'-0"	0'-1 3/4"	D8	09	STN	WD	F1	HM	PNT	
B114	3'-0"	7'-0"	0'-1 3/4"	D6	09	STN	WD	F3	HM	PNT	
B115	3'-0"	7'-0"	0'-1 3/4"	D6	16	STN	WD	F1	AL	CLR-A	
B116	3'-0"	7'-0"	0'-1 3/4"	D6	16	STN	WD	F1	HM	PNT	
B119	3'-0"	7'-0"	0'-1 3/4"	D6	19	STN	WD	F1	AL	CLR-A	Rough-in for card reader
B120A	3'-0"	7'-0"	0'-1 3/4"	D6	16	STN	WD	F1	AL	CLR-A	
B120B	14'-4"	5'-0"		D14		CLR-A	AL		AL		Overhead rolling security grill
B122A	3'-0"	7'-0"	0'-1 3/4"	D8	09	STN	WD	F1	HM	PNT	
B122B	3'-0"	7'-0"	0'-1 3/4"	D8	09	STN	WD	F1	AL	CLR-A	
B123	3'-0"	7'-0"	0'-1 3/4"	D6	09	STN	WD	F3	HM	PNT	
B124	3'-0"	7'-0"	0'-1 3/4"	D6	09	STN	WD	F3	HM	PNT	
B125	3'-0"	7'-0"	0'-1 3/4"	D6	09	STN	WD	F3	HM	PNT	
B126A	3'-0"	7'-0"	0'-1 3/4"	D6	09	STN	WD	F3	HM	PNT	
B126B	2'-4"	7'-0"	0'-1 3/4"	D6	09	STN	WD	F1	HM	PNT	
B200A	3'-0"	7'-0"	0'-1 3/4"	D6	29	STN	WD	F3	AL	CLR-A	Rough-in for card reader
B200B	3'-0"	7'-0"		D6	29	CLR-A	AL	F3	AL	CLR-A	Rough-in for card reader
B201	3'-0"	7'-0"	0'-1 3/4"	D8	09	STN	WD	F1	HM	PNT	

DOOR SCHEDULE

Number	Door Width	Door Height	Door Thickness	Door Type	Hardware Set	Door Finish	Door Material	Frame Type	Frame Material	Frame Finish	Comments
B202	3'-0"	7'-0"	0'-1 3/4"	D6	09	STN	WD	F3	HM	PNT	
B203	3'-0"	7'-0"	0'-1 3/4"	D6	09	STN	WD	F3	HM	PNT	
B204	3'-0"	7'-0"	0'-1 3/4"	D8	09	STN	WD	F1	HM	PNT	
B205	3'-0"	7'-0"	0'-1 3/4"	D6	09	STN	WD	F3	HM	PNT	
B206	3'-0"	7'-0"	0'-1 3/4"	D6	09	STN	WD	F3	HM	PNT	
B207	3'-0"	7'-0"	0'-1 3/4"	D6	09	STN	WD	F3	HM	PNT	
B208	3'-0"	7'-0"	0'-1 3/4"	D6	09	STN	WD	F3	HM	PNT	
B209	3'-0"	7'-0"	0'-1 3/4"	D6	09	STN	WD	F3	HM	PNT	
B210	3'-0"	7'-0"	0'-1 3/4"	D6	09	STN	WD	F3	HM	PNT	
B211	3'-0"	7'-0"	0'-1 3/4"	D6	33	STN	WD	F3	HM	PNT	Provide Sound Seal
B212A	3'-0"	7'-0"	0'-1 3/4"	D6	10	STN	WD	F3	HM	PNT	Provide Sound Seal
B212B	3'-0"	7'-11"		D12	I	CLR-A	AL	See SF33 (Sheet AE603)	AL	CLR-A	
B213A	4'-0"	7'-0"		D16	K			See SF47 (Sheet AE604)			Custom Frameless Glass Door w/ Floor Latch & Lock, 36" Ladder Pull Hardware
B213B	4'-0"	7'-0"		D16	K			See SF46 (Sheet AE604)			Custom Frameless Glass Door w/ Floor Latch & Lock, 36" Ladder Pull Hardware
B214A	3'-0"	7'-0"	0'-1 3/4"	D6	09	STN	WD	F3	HM	PNT	
B214B	3'-0"	7'-0"	0'-1 3/4"	D6	09	STN	WD	F3	HM	PNT	
B215	3'-0"	7'-0"	0'-1 3/4"	D6	25	STN	WD	F1	HM	PNT	
B216	3'-0"	7'-0"	0'-1 3/4"	D6	16	STN	WD	F3	AL	CLR-A	
B217	3'-0"	7'-0"	0'-1 3/4"	D6	25	PNT	HM	F1	HM	PNT	
B219	3'-0"	7'-0"	0'-1 3/4"	D6	25	PNT	HM	F1	HM	PNT	
B220	3'-0"	7'-0"	0'-1 3/4"	D6	22	STN	WD	F1	HM	PNT	
B221	3'-0"	7'-0"	0'-1 3/4"	D6	31	STN	WD	F1	AL	CLR-A	
B222	3'-0"	7'-0"	0'-1 3/4"	D6	31	STN	WD	F1	AL	CLR-A	
B223A	3'-0"	7'-0"	0'-1 3/4"	D7	19	STN	WD	F1	AL	CLR-A	
B223B	3'-0"	7'-0"	0'-1 3/4"	D7	19	STN	WD	F1	AL	CLR-A	
B223C	6'-0"	6'-10"	0'-2"	D10	12	STN	WD	F5	AL	CLR-A	Provide Premium Sound Seal
B224A	3'-0"	7'-0"	0'-1 3/4"	D6	09	STN	WD	F1	HM	PNT	
B224B	4'-0"	7'-0"	0'-2"	D9	13	STN	WD	F5	HM	PNT	
B224C	2'-6"	7'-0"	0'-1 3/4"	D6	09	STN	WD	F1	HM	PNT	
B224D	3'-0"	7'-11"		D12	J	CLR-A	AL	See SF31 (Sheet AE603)	AL	CLR-A	
B224E	3'-0"	7'-11"		D12	J	CLR-A	AL	See SF31 (Sheet AE603)	AL	CLR-A	
B225B	3'-0"	7'-0"	0'-1 3/4"	D7	09	STN	WD	F1	HM	PNT	
B227	3'-0"	7'-0"	0'-1 3/4"	D6	10	STN	WD	F1	HM	PNT	Provide Premium Sound Seal
B228	3'-0"	7'-0"	0'-1 3/4"	D6	20	STN	WD	F1	HM	PNT	
B229	3'-0"	7'-0"	0'-1 3/4"	D6	09	STN	WD	F1	HM	PNT	
B230	3'-0"	7'-0"	0'-1 3/4"	D6	20	STN	WD	F1	HM	PNT	
B231	3'-0"	7'-0"	0'-1 3/4"	D6	09	STN	WD	F1	HM	PNT	
B232A	3'-0"	7'-0"	0'-1 3/4"	D6	16	STN	WD	F1	HM	PNT	
B232B	2'-6"	7'-0"	0'-1 3/4"	D6	15	STN	WD	F1	HM	PNT	
B233	3'-0"	7'-0"	0'-1 3/4"	D6	17	STN	WD	F1	HM	PNT	Provide Sound Seal
C100A	3'-0"	7'-0"	0'-1 3/4"	D5	27	PNT	HM	F2	HM	PNT	Provide Sound Seal
C100AA	6'-0"	7'-0"	0'-1 3/4"	D4		CLR-A	AL	F5	AL	CLR-A	Provide ADA accessible automatic door opening system
C100B	6'-0 15/256"	7'-0"		D13	G	CLR-A	AL	See SF1 (Sheet AE602)	AL	CLR-A	Provide card reader
C100C	3'-0"	7'-0"		D12	F	CLR-A	AL	See SF22 (Sheet AE603)	AL	CLR-A	
C100CA	6'-0"	7'-0"	0'-1 3/4"	D4	03	CLR-A	AL	F6	AL	CLR-A	Provide card reader, ADA accessible automatic door opening system
C100D	3'-0"	7'-0"	0'-1 3/4"	D8	27	STN	WD	F1	AL	CLR-A	Provide Sound Seal
C101A	14'-0"	14'-0"	0'-1 3/8"	D15	01	PNT	ST	F8	ST	PNT	Overhead Coiling Door
C101B	3'-0"	7'-0"	0'-1 3/4"	D1	04	PNT	HM	F1	HM	PNT	
C102	3'-0"	7'-0"	0'-1 3/4"	D1	15	PNT	HM	F2	HM	PNT	
C102A	3'-0"	7'-0"	0'-1 3/4"	D6	16	PNT	HM	F1	HM	PNT	
C102B	3'-0"	7'-0"	0'-1 3/4"	D1	16	PNT	HM	F2	HM	PNT	
C103A	3'-0"	7'-0"	0'-1 3/4"	D1	04	PNT	HM	F1	HM	PNT	
C103AA	3'-0"	7'-0"	0'-1 3/4"	D1	32	PNT	HM	F1	HM	PNT	
C103B	14'-0"	14'-0"	0'-1 3/8"	D15	01	PNT	ST	F8	ST	PNT	Insulated Sectional Door
C104	3'-0"	7'-0"	0'-1 3/4"	D5	15	PNT	HM	F2	HM	PNT	
C105	3'-0"	7'-0"	0'-1 3/4"	D5	15	PNT	HM	F2	HM	PNT	
C106	3'-0"	7'-0"	0'-1 3/4"	D1	15	PNT	HM	F2	HM	PNT	
C107A	14'-0"	14'-0"	0'-1 3/8"	D15	01	PNT	ST	F8	ST	PNT	Insulated Sectional Door
C107B	3'-0"	7'-0"	0'-1 3/4"	D1	04	PNT	HM	F1	HM	PNT	
C108	3'-0"	7'-0"	0'-1 3/4"	D1	15	PNT	HM	F2	HM	PNT	
C109	3'-0"	7'-0"	0'-1 3/4"	D1	02	PNT	HM	F1	HM	PNT	
C110	3'-0"	7'-0"	0'-1 3/4"	D1	15	PNT	HM	F2	HM	PNT	
C111	3'-0"	7'-0"	0'-1 3/4"	D1	22	PNT	HM	F2	HM	PNT	
C112	3'-0"	7'-0"	0'-1 3/4"	D5	15	PNT	HM	F2	HM	PNT	
C113	3'-0"	7'-0"	0'-1 3/4"	D5	15	PNT	HM	F2	HM	PNT	
C114	3'-0"	7'-0"	0'-1 3/4"	D1	15	PNT	HM	F2	HM	PNT	
C115	3'-0"	7'-0"	0'-1 3/4"	D1	15	PNT	HM	F2	HM	PNT	
C116	3'-0"	7'-0"	0'-1 3/4"	D5	22	PNT	HM	F2	HM	PNT	
C118	3'-0"	7'-0"	0'-1 3/4"	D1	20	PNT	HM	F2	HM	PNT	
C120	3'-0"	7'-0"	0'-1 3/4"	D1	20	PNT	HM	F2	HM	PNT	
C121A	14'-0"	14'-0"	0'-1 3/8"	D15	01	PNT	ST	F8	ST	PNT	Insulated Sectional Door
C121B	14'-0"	14'-0"	0'-1 3/8"	D15	01	PNT	ST	F8	ST	PNT	Insulated Sectional Door
C121C	3'-0"	7'-0"	0'-1 3/4"	D1	04	PNT	HM	F1	HM	PNT	
C121D	14'-0"	14'-0"	0'-1 3/8"	D15	01	PNT	ST	F8	ST	PNT	Insulated Sectional Door
C121E	14'-0"	14'-0"	0'-1 3/8"	D15	04	PNT	ST	F8	ST	PNT	Insulated Sectional Door
C121F	3'-0"	7'-0"	0'-1 3/4"	D1	04	PNT	HM	F1	HM	PNT	
C121G	14'-0"	14'-0"	0'-1 3/8"	D15	01	PNT	ST	F8	ST	PNT	Insulated Sectional Door
C122	3'-0"	7'-0"	0'-1 3/4"	D1	15	PNT	HM	F2	HM	PNT	
C123	3'-0"	7'-0"	0'-1 3/4"	D1	15	PNT	HM	F2	HM	PNT	
C124	3'-0"	7'-0"	0'-1 3/4"	D1	15	PNT	HM	F2	HM	PNT	
C201	3'-0"	7'-0"	0'-1 3/4"	D6	16	CLR-A	AL	F3	AL	CLR-A	
C202D	3'-0"	7'-0"	0'-1 3/4"	D1	25	PNT	HM	F1	HM	PNT	
C206A	8'-0"	8'-0"	0'-1 3/4"	D2	06	PNT	HM	F5	HM	PNT	
C206B	8'-0"	8'-0"	0'-1 3/4"	D2	07	PNT	HM	F5	HM	PNT	
C206C	6'-0"	7'-0"	0'-1 3/4"	D2	26	PNT	HM	F5	HM	PNT	
C206D	3'-0"	7'-0"	0'-1 3/4"	D1	08	PNT	HM	F2	HM	PNT	

GENERAL DOOR & WINDOW SCHEDULE NOTES

1	SEE SHEET AE605 FOR DOOR/FRAME TYPE ELEVATIONS
2	PROVIDE HORIZONTAL ALUMINUM BLINDS AT ALL HOLLOW METAL INTERIOR WINDOWS INCLUDING SIDE LIGHTS AND TRANSOMS U.N.O

DOOR AND FRAME FINISH KEY:

MATERIAL
HM- HOLLOW METAL
AL- ALUMINUM
ST- STEEL
WD-WOOD

FINISH
PNT- FOR INTERIOR PAINT TO MATCH ADJACENT WALL FINISH U.N.O.FOR EXTERIOR USE (PNT-10) SEE AE611
CLR-A- CLEAR ANNODIZED ALUMINUM
STN- FINISH TO MATCH (WV1) SEE FINISH SCHEDULE ON AE/611

WINDOW SCHEDULE

Type Mark	Description	Comments
CW1	Curtain Wall System	
CW2	Curtain Wall System	Provide Roller Shade @ Room B233
CW3	Curtain Wall System	Provide Roller Shade @ Room B233
CW4	Curtain Wall System	
CW5	Curtain Wall System	
CW6	Curtain Wall System	
CW7	Curtain Wall System	
SF1	Storefront System	
SF2	Storefront System	
SF3	Storefront System	Provide Roller Shade
SF3	Storefront System	Provide Roller Shade
SF3	Storefront System	Provide Roller Shade
SF3	Storefront System	Provide Roller Shade
SF3	Storefront System	Provide Roller Shade
SF3	Storefront System	Provide Roller Shade
SF3	Storefront System	Provide Roller Shade
SF3	Storefront System	Provide Roller Shade
SF3	Storefront System	Provide Roller Shade
SF4	Storefront System	Provide Roller Shade
SF4	Storefront System	Provide Roller Shade
SF4	Storefront System	Provide Roller Shade
SF4	Storefront System	Provide Roller Shade
SF4A	Storefront System	Provide Roller Shade
SF5	Storefront System	Provide Roller Shade
SF5A	Storefront System	Provide Roller Shade
SF5A	Storefront System	Provide Roller Shade
SF6	Storefront System	Provide Roller Shade
SF7	Storefront System	Provide Roller Shade
SF8	Storefront System	Provide Roller Shade
SF9	Storefront System	Provide Roller Shade
SF10	Storefront System	Provide Roller Shade
SF11	Storefront System	
SF12	Storefront System	

WINDOW SCHEDULE

Type Mark	Description	Comments
SF13	Storefront System	
SF14	Storefront System	
SF15	Storefront System	
SF17	Storefront System	Provide Motorized Roller Shade
SF18	Storefront System	Provide Motorized Roller Shade
SF19	Storefront System	Provide Motorized Roller Shade
SF20	Storefront System	Provide Roller Shade
SF20	Storefront System	Provide Roller Shade
SF20	Storefront System	Provide Roller Shade
SF20	Storefront System	Provide Roller Shade
SF20	Storefront System	Provide Roller Shade
SF20	Storefront System	Provide Roller Shade
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SF20	Storefront System	Provide Roller Shade
SF20	Storefront System	Provide Roller Shade
SF20	Storefront System	Provide Roller Shade
SF20	Storefront System	Provide Roller Shade
SF21	Storefront System	Provide Roller Shade
SF21	Storefront System	Provide Roller Shade
SF21	Storefront System	Provide Roller Shade
SF21	Storefront System	Provide Roller Shade
SF21	Storefront System	Provide Roller Shade
SF22	Storefront System	
SF27	Storefront System	
SF28	Storefront System	Provide Roller Shade
SF28	Storefront System	Provide Roller Shade
SF28A	Storefront System	Provide Roller Shade
SF29	Storefront System	Provide Roller Shade
SF29	Storefront System	Provide Roller Shade

WINDOW SCHEDULE

Type Mark	Description	Comments
SF30	Storefront System	Provide Motorized Roller Shade
SF30	Storefront System	Provide Motorized Roller Shade
SF31	Storefront System	Provide Motorized Roller Shade @ Room B224
SF32	Storefront System	Provide Roller Shade
SF33	Storefront System	Provide Roller Shade
SF34	Storefront System	Provide Roller Shade
SF35	Storefront System	Provide Roller Shade
SF36	Storefront System	Provide Roller Shade
SF37	Storefront System	Provide Roller Shade
SF38	Storefront System	Provide Roller Shade
SF39	Storefront System	Provide Roller Shade
SF40	Storefront System	Provide Roller Shade
SF41	Storefront System	Provide Roller Shade
SF42	Storefront System	Provide Roller Shade
SF43	Storefront System	Provide Roller Shade
SF44	Storefront System	Provide Roller Shade
SF45	Storefront System	Provide Roller Shade
SF46	Storefront System	
SF47	Storefront System	
SF48	Storefront System	
SF48	Storefront System	
SF48	Storefront System	
SF48	Storefront System	
SF48	Storefront System	
SF48	Storefront System	
SF48	Storefront System	
SF48	Storefront System	
SF48	Storefront System	
SF48	Storefront System	
SF48	Storefront System	
SF49	Storefront System	
SF49	Storefront System	Provide Roller Shade

WINDOW SCHEDULE

Type Mark	Description	Comments
SF49	Storefront System	Provide Roller Shade
SF49	Storefront System	Provide Roller Shade
SF50	Storefront System	
SF50	Storefront System	
SF50	Storefront System	
SF50	Storefront System	
SF50	Storefront System	
SF50	Storefront System	
SF50	Storefront System	
SF50	Storefront System	
SF50	Storefront System	
SF50	Storefront System	
SF50	Storefront System	
SF51	Storefront System	
SF52	Storefront System	
SF52	Storefront System	
SF52	Storefront System	
SF52	Storefront System	
SF52A	Storefront System	
SF52B	Storefront System	
SF52C	Storefront System	
SF52D	Storefront System	
SF52E	Storefront System	
SF52F	Storefront System	
SF52G	Storefront System	
SF52H	Storefront System	
SF54	Storefront System	
SF54	Storefront System	
SF55	Storefront System	
SF55	Storefront System	
SF55	Storefront System	
SF55A	Storefront System	
SF55A	Storefront System	

WINDOW SCHEDULE - CONT.

Type Mark	DETAIL Head 2	DETAIL Jamb 2	DETAIL Sill 2	Sill Height	Comments
4063					4'x8' Unit Skylights
SF54	See Window Elevation	See Window Elevation	See Window Elevation	16'-0"	Storefront System
W1	"	"	"	3'-2"	
W5	"	"	"	3'-2"	
W6	"	"	"	3'-2"	

WINDOW SCHEDULE - CONT.

Type Mark	DETAIL Head 2	DETAIL Jamb 2	DETAIL Sill 2	Sill Height	Comments
W7	"	"	"	3'-2"	
W8	"	"	"	2'-10"	
W10	"	"	"		
W11	"	"	"		
W12	"	"	"	3'-4"	
W14	"	"	"	2'-10"	

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project:

TOOELE APPLIED TECHNOLOGY COLLEGE - NEW BUILDING

88 South Tooele Blvd
Tooele, UT 84074

DFCM PROJECT #11064280

project#: 11.0420
date: 1/20/2012

revisions:

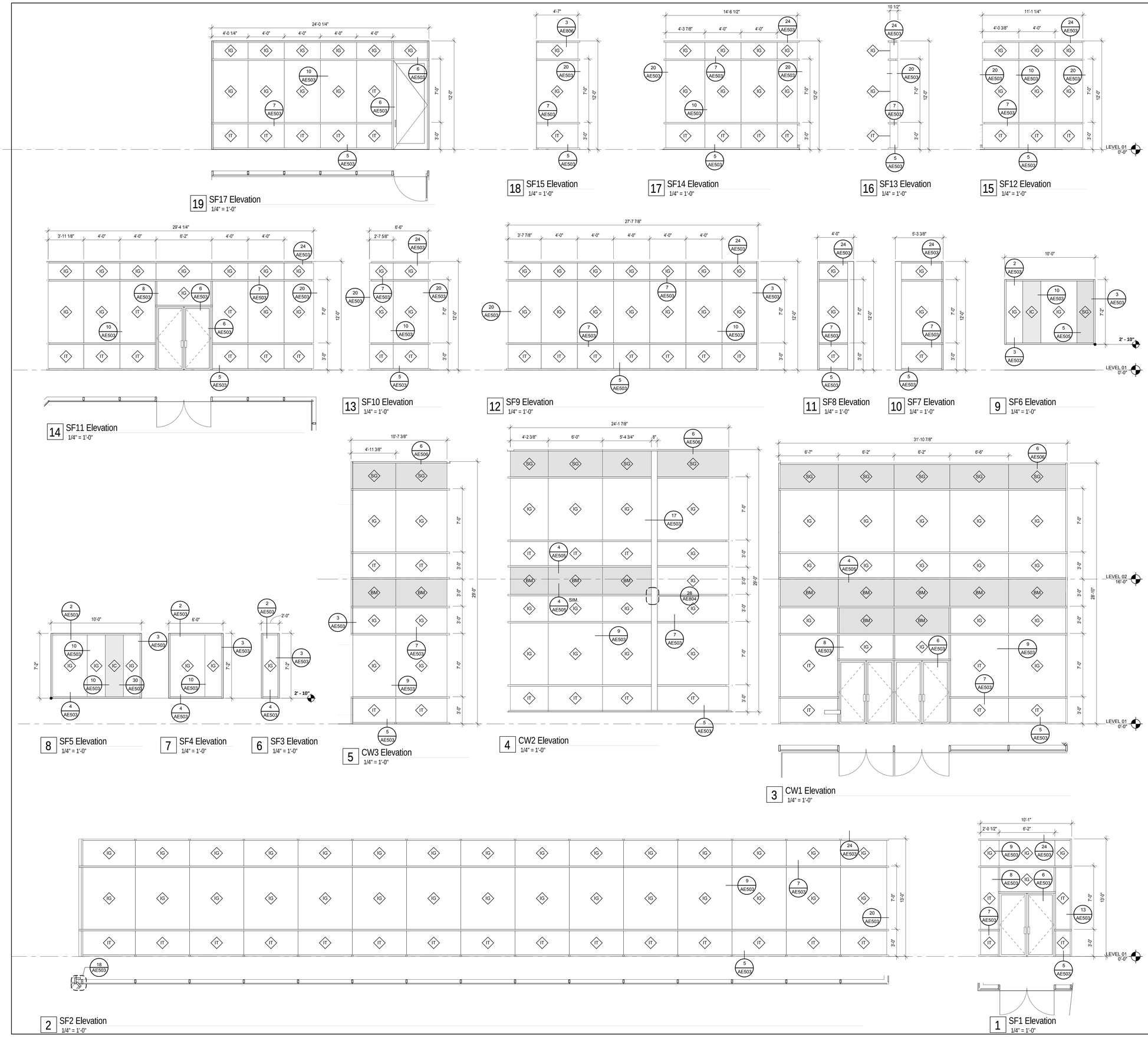
title:

Door & Window Schedules

sheet:

AE601

100% Construction Documents



GLAZING SCHEDULE

Type Mark	Type	Comments
BM	Aluminum Cover (Brake Metal)	
G1	1/4" Clear Glass	
G2	1/4" Clear Tempered Glass	
G3	1/2" Clear	
G4	1/2" Clear Tempered	
IC	1" Dbl Glazed Insulated Unit w/ Low-E color	Colored Low-E Coated Glass
IG	1" Dbl Glazed Insulated Unit	
IT	1" Dbl Glazed Insulated Unit - Tempered	Clear Low-E Coated Glass
SG	Spandrel Glass	
TG	1 3/4" Trpl Glazed Insulated Unit - Tempered	

LICENSED ARCHITECT 6710870 JOSEPH FLINT SMITH STATE OF UTAH
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project:
TOOELE APPLIED TECHNOLOGY COLLEGE - NEW BUILDING

88 South Tooele Blvd
Tooele, UT 84074

DFCM PROJECT #11064280

project#: 11.0420
date: 1/20/2012

revisions:

Window Elevations

sheet:

AE602

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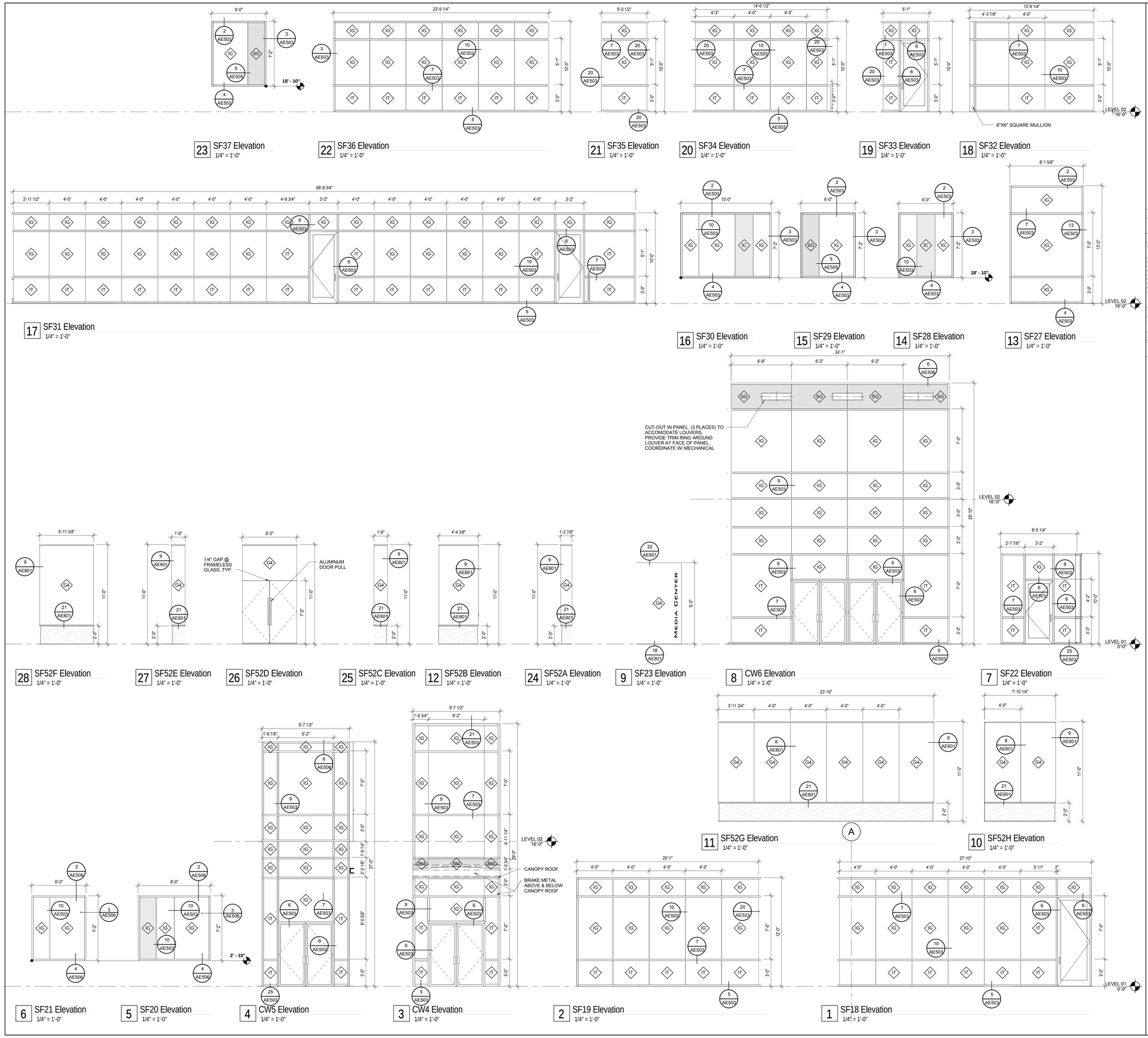

GLAZING SCHEDULE

Type Mark	Type	Comments
BM	Aluminum Cover (Brake Metal)	
G1	1/4" Clear Glass	
G2	1/4" Clear Tempered Glass	
G3	1/2" Clear	
G4	1/2" Clear Tempered	
IC	1" Dbl Glazed Insulated Unit w/ Low-E color	Colored Low-E Coated Glass
IG	1" Dbl Glazed Insulated Unit	
IT	1" Dbl Glazed Insulated Unit - Tempered	Clear Low-E Coated Glass
SG	Spandrel Glass	
TG	1 3/4" Trpl Glazed Insulated Unit - Tempered	

LICENSED ARCHITECT 6710870 JOSEPH FLINT SMITH STATE OF UTAH
01.20.12

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METHOD STUDIO INC.
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phone:(801) 532-4422

consultants:

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project:
TOOELE APPLIED TECHNOLOGY COLLEGE - NEW BUILDING

88 South Tooele Blvd
Tooele, UT 84074

DFCM PROJECT #11064280

project#: 11.0420
date: 1/20/2012

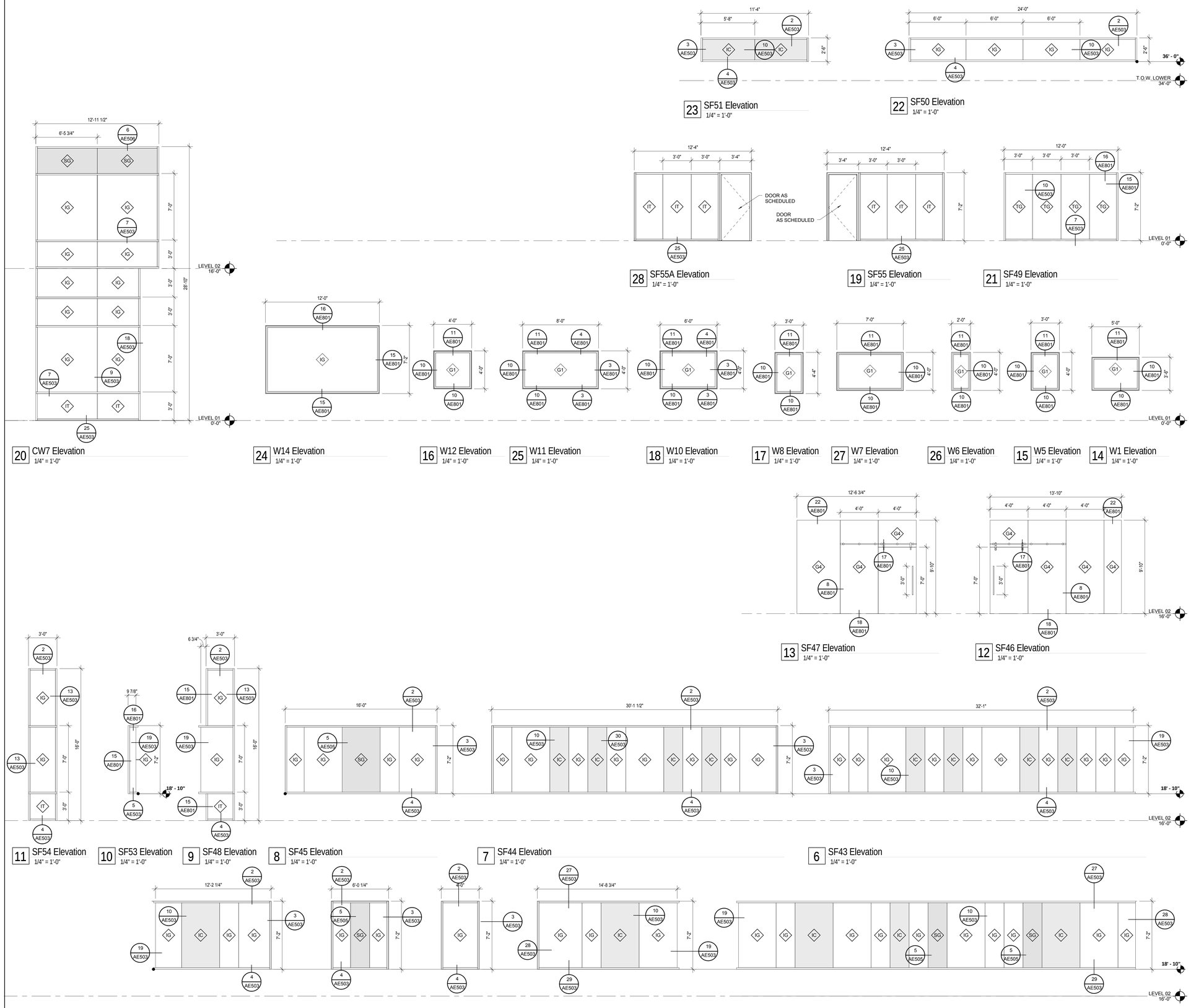
revisions:

Window Elevations

sheet:

AE603

100% Construction Documents



GLAZING SCHEDULE

Type Mark	Type	Comments
BM	Aluminum Cover (Brake Metal)	
G1	1/4" Clear Glass	
G2	1/4" Clear Tempered Glass	
G3	1/2" Clear	
G4	1/2" Clear Tempered	
IC	1" Dbl Glazed Insulated Unit w/ Low-E color	Colored Low-E Coated Glass
IG	1" Dbl Glazed Insulated Unit	
IT	1" Dbl Glazed Insulated Unit - Tempered	Clear Low-E Coated Glass
SG	Spandrel Glass	
TG	1 3/4" Trpl Glazed Insulated Unit - Tempered	

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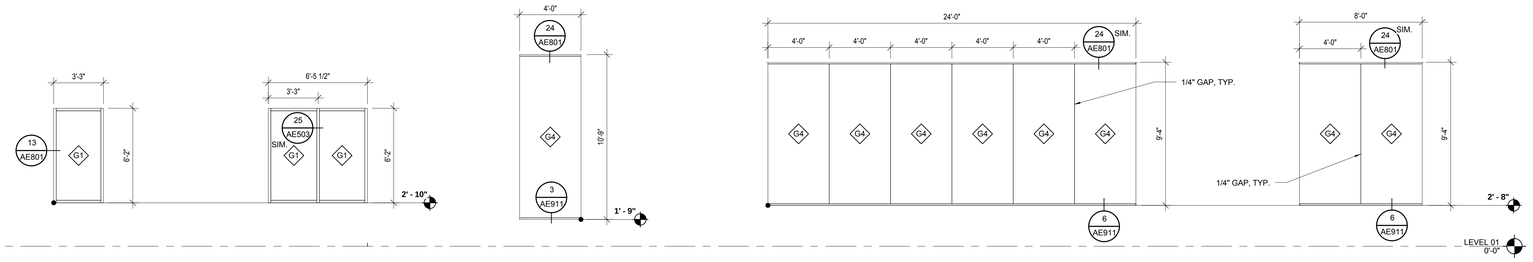

5 SF23E Elevation
1/4" = 1'-0"

4 SF23D Elevation
1/4" = 1'-0"

3 SF23C Elevation
1/4" = 1'-0"

2 SF23B Elevation
1/4" = 1'-0"

1 SF23A Elevation
1/4" = 1'-0"

GLAZING SCHEDULE

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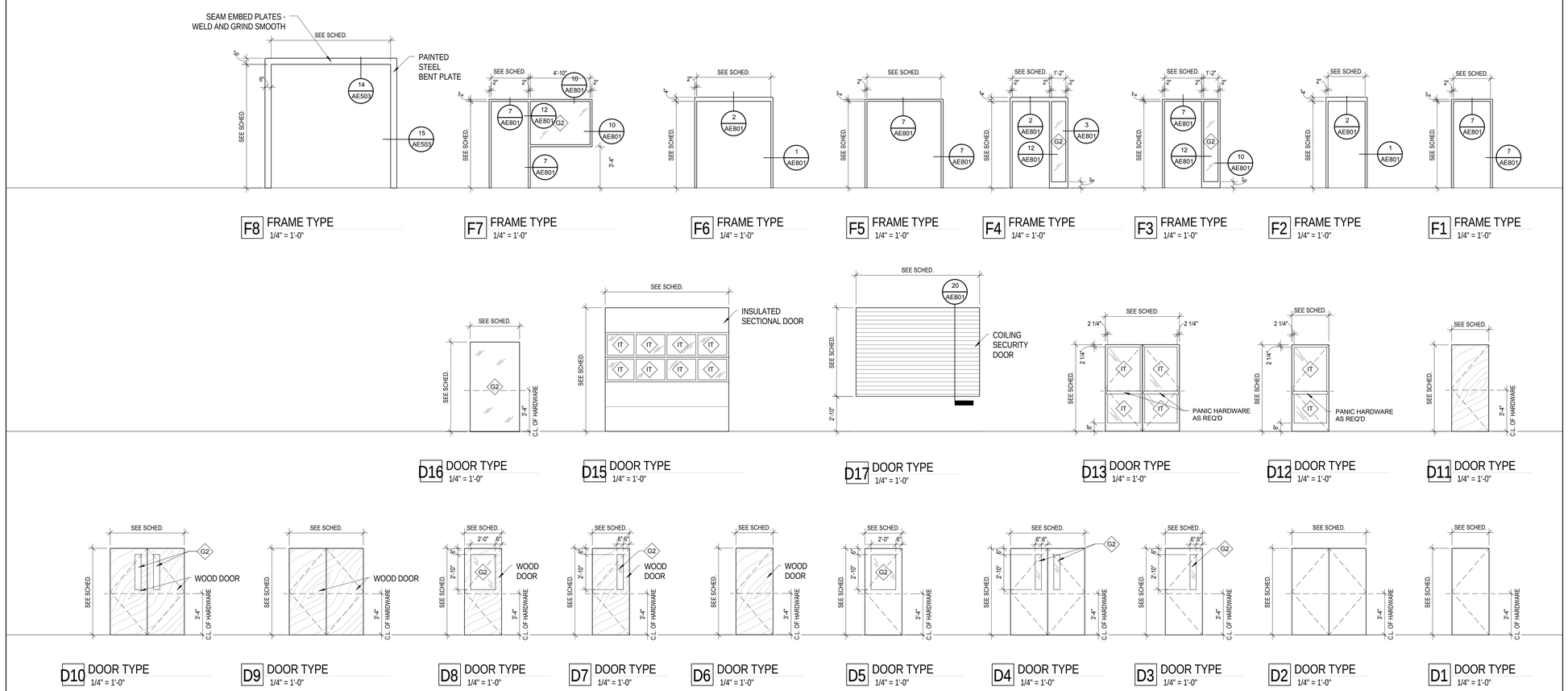
revisions :

Window Elevations

sheet:

AE605

100% Construction Documents



GENERAL DOOR & FRAME TYPE NOTES

1	PAINT HOLLOW METAL FRAMES TO MATCH ADJACENT WALL FINISH. SPLIT PAINT @ CENTER DOOR FRAME, IF FINISH IS DIFFERENT @ EACH SIDE OF DOOR FRAME.

GLAZING SCHEDULE

Type Mark	Type	Comments
BM	Aluminum Cover (Brake Metal)	
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G2	1/4" Clear Tempered Glass	
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IT	1" Dbl Glazed Insulated Unit - Tempered	Clear Low-E Coated Glass
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revisions :

Door & Frame Types

sheet:

AE606

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INTERIOR FINISH LEGEND

NOTE: SCHEDULED MATERIALS AND FINISHES SHALL BE USED FOR BASIS OF DESIGN.

CODE	MATERIAL	MANUFACTURER	PRODUCT NAME / NUMBER	COLOR / FINISH	SIZE	COMMENTS
CARPET						
CPT-1	Carpet Tile	Interface Flor	126690250H raw	101058 Depot	50cm x 50cm	Direct Glue; Quarter Turn Installation.
CPT-2	Carpet Tile	Interface Flor	1391202500 Alliteration 24Z	9730 Parchment/Aspargus	50cm x 50cm	Direct Glue; Brick Installation.
CPT-3	Carpet Tile	Interface Flor	138570250H Monochrome	101857 Asparagus	50cm x 50cm	Direct Glue; Brick Installation.
CPT-4	Carpet Tile	Interface Flor	1391202500 Alliteration 24Z	9724 Mineral/Persimmon	50cm x 50cm	Direct Glue; Brick Installation. In room A125 back w/NexStep
CPT-5	Carpet Tile	Interface Flor	138570250H Monochrome	10818 Persimmon	50cm x 50cm	Direct Glue; Brick Installation.
CPT-6	Walk-Off-Mat	Mats Inc.	Slip-Not 2000 Tile	Dark Gray	19 $\frac{1}{16}$" x 19 $\frac{1}{16}$"	Direct Glue w/ matting Release Band Adhesive; Quarter Turn Installation.
VINYL						
SV-1	Sheet Vinyl	Marmoleum	Striato	3575 White Cliffs	79"W x 105"L	Provide seaming diagram for approval. Refer to finish plan for pattern direction. Seams to be scribed tightly together and hand rolled for a clean and concealed seam. Install using Forbo recommended adhesive #L885; Flooring shall be installed by a master certified mechanic. NO WAX!
SV-2	Sheet Vinyl	Marmoleum	Striato	3570 Stormy Weather	79"W x 105"L	Provide seaming diagram for approval. Refer to finish plan for pattern direction. Seams to be scribed tightly together and hand rolled for a clean and concealed seam. Install using Forbo recommended adhesive #L885; Flooring shall be installed by a master certified mechanic. NO WAX!
VF-1	Vinyl Flooring	Shaw Floors	0008V Decowood	02544 Teak-Green	4"W Planks x 36" L	Direct glue; NO WAX!
SCF-1	Static Control Floor.	VPI	Static Control Flooring	152 Winter White	12" x 12"	To be used with raised flooring system - Refer to specifications for raised flooring information. NO WAX!
CONCRETE						
SC-1	Sealed Concrete					Seal floor w/ pentra-sil or equal.
PSC-1	Polished Sealed Concrete	Stone Touch	Polished Concrete	Natural Gray	Expansion Joints @ 12' O.C.	Polish floor w/ 800 grit diamond pad to expose aggregate; Finish with (1) coat pentra-sil and (2) coats pentra-guard; joints to be saw cut-not tooled; Flooring to be installed/finished by a certified applicant.
WOOD FLOORING						
WF-1	Wood Flooring	Nydree Flooring	COR Collection	Natural	4"W x $\frac{3}{8}$" Thick	See finish plan for floor direction.
TILE						
T-1	Ceramic Tile	Daltile	Identity Glazed Wall Tile	MY67 Paramount White / Matte	8" x 20"	3/32" Grout Joint; Laticrete 1600 unsanded grout; 44 Bright White; Thinset back butter tiles; Precise miter required at outside corners - no corner trim.
T-2	Porcelain Tile	Daltile	Cliff Point	Rock CP84	12" x 12"	Submit tile layout for approval; 1/8" grout joint; Laticrete SpecktralLock Pro epoxy grout; 24 Natural gray; Thick set tile.
T-3	Ceramic Tile	Daltile	Glazed Wall Tile	0790 Arctic White	4 1/4" x 4 1/4"	3/32" Grout Joint; Laticrete 1600 unsanded grout; 44 Bright White.
T-4	Ceramic Tile	Daltile	Glazed Wall Tile	0766 Elemental Tan Matte	4 1/4" x 4 1/4"	3/32" Grout Joint; Laticrete 1600 unsanded grout; 27 Hemp.
T-5	Ceramic Tile	Contempo Tile	Linen ST Steel	Liner Bar	2" x 8"	3/32" Grout Joint; Laticrete 1600 unsanded grout; 78 Sterling Silver; Run tile Vertically.
T-6	Ceramic Tile	Daltile	Bullnose Edge Trim A-4402	0790 Arctic White	4 1/4" x 4 1/4"	To be used w/ T-3; 3/32" grout joint; Latticrete 1600 unsanded grout; 44 Bright White; Use coordinating inside / outside corners as required.
T-7	Ceramic Tile	Daltile	Identity Glazed Jolly Bullnose Edge	MY67 Paramount White/Matte	1" x 10"	To be used w/ T-1; Align joints with wall joints; Same grout as T-1.
T-8	Porcelain Tile	Flor Gres / Contempo Tile	Architect / Decor	Natural Ash Gray	8" x 32"	3/32" Grout Joint; Laticrete 1600 unsanded grout; 24 natural gray; Use medium bed mortar at wall tile - megalite; Precise miter required at outside corners - no trim / align wall tile with floor joints.
T-9	Ceramic Tile	Daltile	Bullnose Edge Trim A-4402	0766 Elemental Tan Matte	4 1/4" x 4 1/4"	To be used w/ T-4; Laticrete 1600 unsanded; 27 Hemp; Use coordinating inside / outside corners as required.
T-10	Porcelain Tile	Flor Gres / Contempo Tile	Architect / Decor	Natural Ash Gray	2" x 2" Mosaic in 12" x 12" Sheet	Laticrete 1500 sanded grout; 24 natural gray.
BASE						
RB-1	Rubber Base	Johnsonite	100% Vulcanized Rubber	184 Daffy Dil	4"H	Coved profile; Provide base in 120' coils.
RB-2	Rubber Base	Johnsonite	100% Vulcanized Rubber	28 Shoreline	4"H	Straight Profile; Provide Base in 120' coils.
RB-3	Rubber Base	Johnsonite	100% vulcanized Rubber	50 White	4"H	Straight Profile; Provide Base in 120' coils.
RB-4	Rubber Base	Johnsonite	100% vulcanized Rubber	50 White	4"H	Coved profile; Provide base in 120' coils.
RB-5	Rubber Base	Johnsonite	100% vulcanized Rubber	290 Tea Green	4"H	Coved profile; Provide base in 120' coils.
RB-6	Rubber Base	Johnsonite	100% vulcanized Rubber	38 Pewter	4"H	Coved profile; Provide base in 120' coils.
RB-7	Rubber Base	Johnsonite	100% vulcanized Rubber	38 Pewter	4"H	Straight Profile; Provide Base in 120' coils.
RB-8	Rubber Base	Johnsonite	100% vulcanized Rubber	290 Tea Green	4"H	Straight Profile; Provide Base in 120' coils.
SCB-1	Sheet Vinyl	Marmoleum	Self-Coved Base		6"H	Self -Cove base to match adjacent sheet vinyl. Johnsonite cove filler strip CFS-00-MINR. Johnsonite cove cap SC-28-B medium gray to be used with (SV2). Johnsonite cove cap SC-22-8 to be used with (SV-1).
WB-1	Wood Base	Hardwood	QC White Oak	Stained to Match WC-1	3/4" x 6"H	Use maximum length pieces to minimize seamings; end match grain for a continuous look; Finish with (4) coats of clear polyurethane; Ease outside edge $\frac{1}{8}$" Radius.
MB-1	Metal Base			Satin Annodized Alumminum	2 1/2"H	Direct glue to wall; Use maximum length to minimize seams.
MB-2	Metal Base	Schluter	Dilex-AHKA-AE	Satin Annodized Alumminum	3/8" R	Contractor to select appropriate size to coordinate with tile thickness per application. Provide inside/outside corners as required.
MB-3	Metal Base	Schluter	Dilex-AHK-AE	Satin Annodized Alumminum	3/8" R	Contractor to select appropriate size to coordinate with tile thickness per application. Provide inside/outside corners as required.
TB-1	Tile Base	Daltile	Cliff Pointe	CP84 Rock	6" x 12"	Align joints with floor joints; 1/8" grout joint; Latictrete spectraloc; 24 Natural Gray.
PAINT						
PNT-1	Paint	Kwal		CL1972M Envy		Refer to specifications for paint finish per substrate.
PNT-2	Paint	Sherwin Williams		SW7651 Front Porch		Refer to specifications for paint finish per substrate.
PNT-3	Paint	Kwal		CLW1011W Mere Mortal		Refer to specifications for paint finish per substrate.
PNT-4	Paint	Sherwin Williams		SW7068 Grizzly Gray		Refer to specifications for paint finish per substrate.
PNT-5	Paint	Sherwin Williams		SW6668 Sunrise		Refer to specifications for paint finish per substrate.
PNT-6	Paint	ICI Paints		90YY 35/304 Napa Valley		Refer to specifications for paint finish per substrate.
PNT-7	Not Used					
PNT-8	Not Used					
PNT-9	Paint	ICI Paints		LT200-92 Quiet Echo		Refer to specifications for paint finish per substrate.
PNT-10	Paint	Kwal		CL3013M Artesian		Refer to specifications for paint finish per substrate.
WALL COVERING						
WC-1	Wall Covering	Sanfoot	QC Teak	Product is pre-finished	3' x 9'	Gypsum board finished to a level 4 finish or higher. Installation: By SanFoot authorized installer in accordance with installation instructions (Doc. #301) Wall-covering to be End & Sequence-book Match. Provide flitch sample to match architects sample for approval prior to ordering. Apply (1) coat low sheen polyurethane finish; do test section and get written approval from Architectural before proceeding.
WC-2	Wall Covering	MDC	Hansen Natural Textiles	MNT6396 TIMBER	54" Wide	Gypsum board to be finished to a level 4 finish or higher.Wrap outside corners; Do not end wall covering on an outside corner.
WP-1	Wall Protection	CS Acrovyn	Acrovyn 4000 Wall covering	#315 Galveston Gray	0.04" Thick / 4' x 8'	Provide standard "H" trim at vertical joints, standard inside / outside corner trim, and wainscot trim in coordinating color.
WOOD VENEER						
WV-1	Wood Veneer	Formwood	Teak, Quarter Cut	-		Finish w/clear low sheen polyurethane finish; 2 coats min. Running book match. Provide flitch sample to match architects sample for approval prior to ordering.
PLASTIC LAMINATE						
PL-1	Plastic Laminate	Wilsonart Laminate	7209K-78	Nepal Teak		Run wood grain vertically.
PL-2	Not Used					
PL-3	Plastic Laminate	Abet Laminati	130	Lucida		
PL-4	Plastic Laminate	Abet Laminati	1177	Soft		
PL-5	Plastic Laminate	Abet Laminati	877	Multirighe		
STONE						
STN-1	Quartz	Ceasarstone	2030		3/4" Thick Slab	Square Edge; Miter Corners.
STN-2	Quartz	One Quartz Surface	NQ24 Stormy Sky	Polished	3/4" Thick Slab	Square Edge; Miter Corners.
CUBICAL CURTAIN						
CB-1	Cubicle Curtain	Maharam	Felix by Kvadrat 283731	109	Curtain Fabric	Mesh: 24"L Coral Fabrics, Carnivel Net ITT, White, 22" W, $\frac{1}{2}$" Grid , 6" Grommets On Center. Cubicle Curtain Track (Typical) supplied by contractor:Track (Pryor Atlas or Kirsch #7900); Carriers (Pryor#223 carrier with #214 end stop or Kirsch #7918 carrier with end stops 7910 and 7911 min. 2.3 self-lubricating nylon wheels per linear foot grommets); Grommets (6" on center; used to determine number of carriers) Bottom of curtain shall be 12" AFF. Contractor to field verify curtain length.
ACOUSTICAL CEILING TILE						
ACT-1	Ceiling System	Armstrong	1912 Ultima Beveled Tegular	White/Durabright	24"x24"x$\frac{3}{4}$"	$\frac{9}{16}$" Grid-White; .90 Light Reflectance; .70 NRC; BioBlock Antimicrobial.
ACT-2	Ceiling System	Armstrong	1915 Ultima Beveled Tegular	White/Durabright	24"x48"x$\frac{3}{4}$"	$\frac{9}{16}$" Grid-White; .90 Light Reflectance; .70 NRC; BioBlock Antimicrobial.
ACT-3	Ceiling System	Armstrong	3905 Optima Open Plan Vector	White/Durabright	30"x30"x$\frac{7}{8}$"	Vector $\frac{15}{16}$" Grid-White; .90 Light Reflectance; .90 NRC; Inherent Antimicrobial.
ACT-4	Ceiling System	Armstrong	1936 Health Zone Ultima Beveled Tegular	White/Durabright	24"x24"x$\frac{3}{4}$"	$\frac{9}{16}$"Suprafine Grid System-White; .86 Light Reflectance; .70 NRC; BioBlock Antimicrobial; HumiGuard Plus.
INTERIOR ELEVATOR						
ELEV-1	Interior Elevator Car System	Thyssen Krupp	TKAP Cab	- -	- -	WALLS: Formica white wall panels; Brushed stainless steel base/reveal/frieze; HANDRAIL: 1.5" Cylindrical w/straight ends, brushed stainless steel finish; FINISH CEILING: island type w/halogen down-light w/brushed stainless steel panel; Regular cab height; DOOR and SILL: one-speed door, right-hand opening, brushed SST door, aluminum sill; FRONT RETURN & FIXTURES: column type return; brushed SST front; Sigma 4 fixtures.
TRANSITION STRIPS						
TS-1	Transition Strip	Schluter (Rep: 801-209-2295)	RENO-U AEU35	Satin Annodized Alumminum	$\frac{1}{8}$"	Set to substrate w/ 2-part epoxy-trowel off tightly to trim; (contact Rep. for TS installation questions 801-209-2295).
TS-2	Transition Strip	Schluter (Rep: 801-209-2295)	RENO-U RAMP AERP100B65	Satin Annodized Alumminum	$\frac{3}{8}$"	Set to substrate w/ 2-part epoxy- $\frac{1}{8}$" feather coat on top of anchoring leg to align face of carpet w/ high point of trim.
TS-3	Transition Strip	Schluter (Rep: 801-209-2295)	Schiene AE45	Satin Annodized Alumminum	$\frac{3}{16}$"	Set to substrate w/ 2-part epoxy- Trowel off tightly to trim.
TS-4	Transition Strip	Schluter (Rep: 801-209-2295)	RENO-U AEU35	Satin Annodized Alumminum	$\frac{1}{8}$"	Set to substrate w/ 2-part epoxy-feather coat on top of anchoring leg to align face of sheet vinyl with trim.
TS-5	Transition Strip	Schluter (Rep: 801-209-2295)	RENO-U AEU100	Satin Annodized Alumminum	$\frac{3}{8}$"	Set with thin-set.
TS-6	Transition Strip	Schluter (Rep: 801-209-2295)	Schiene AE100	Satin Annodized Alumminum	$\frac{3}{8}$"	Set trim with thin-set; float carpet $\frac{1}{8}$" per foot to align face of carpet with tile.
TS-7	Transition Strip	Schluter (Rep: 801-209-2295)	Schiene AE80	Satin Annodized Alumminum	$\frac{5}{16}$"	Set w/ wood adhesive ; float carpet $\frac{1}{8}$" per foot to align face of carpet with face of wood flooring.
TS-8	Transition Strip	Schluter (Rep: 801-209-2295)	RENU-U AEU100	Satin Annodized Alumminum	$\frac{3}{8}$"	Set to substrate w/ 2-part epoxy-trowel off tightly to trim; (contact Rep. for TS installation questions 801-209-2295).

NOTE:
1. Refer to window schedule and specifications for infomation on blinds.

ROOM FINISH SCHEDULE

ROOMS		FLOORS		WALL				
Number	Name	Floor Finish	Base Finish	North Wall	East Wall	South Wall	West Wall	Comments
A100	CORRIDOR	PSC-1	*	*	*	*	*	* Refer to finish plan
A101	MEDICAL ASSISTING CLASSROOM	*	RB-3	PNT-9	PNT-9	PNT-9	PNT-9	* Refer to finish plan
A102	TESTING	CPT-4	RB-3	PNT-9	PNT-9	PNT-9	PNT-9	
A103	STORAGE	SC-1	RB-4	PNT-9	PNT-9	PNT-9	PNT-9	
A104	MEDICAL ASSISTING LAB	*	SCB-1	*	*	*	*	* Refer to finish plan
A104A	LAB RECEPTION	*	SCB-1	*	*	*	*	* Refer to finish plan
A105	MA Office	CPT-4	RB-3	PNT-9	PNT-9	PNT-9	PNT-9	
A106	SURGERY	SV-2	SCB-1	PNT-9	PNT-9	PNT-9	PNT-9	
A107	EXAM	SV-1	RB-4	PNT-9	PNT-9	PNT-9	PNT-9	
A108	XRAY	SV-1	RB-4	PNT-9	PNT-9	PNT-9	PNT-9	
A109	X-RAY CONTROL	SV-1	RB-4	PNT-9	PNT-9	PNT-9	PNT-9	
A110	OFFICE	CPT-4	RB-3	PNT-9	PNT-9	PNT-9	PNT-9	
A111	OFFICE	CPT-4	RB-3	PNT-9	PNT-9	PNT-9	PNT-9	
A112	OFFICE	CPT-4	RB-3	PNT-9	PNT-9	PNT-9	PNT-9	
A113	TOILET	PSC-1	MB-2	*	*	*	*	* Refer to elevations
A114	LAUNDRY	PSC-1	RB-4	PNT-9	PNT-9	PNT-9	PNT-9	
A115	INSTRUCTION TOILET	PSC-1	MB-2	*	*	*	*	* Refer to elevations
A116	OFFICE	CPT-4	RB-3	PNT-9	PNT-9	PNT-9	PNT-9	
A117	CNA STORAGE	SC-1	RB-4	PNT-9	PNT-9	PNT-9	PNT-9	
A118	JANITOR	SC-1	RB-4	*	*	PNT-9	PNT-9	* Refer to elevations
A119	CONTROL	CPT-4	RB-3	PNT-9	PNT-9	PNT-9	PNT-9	
A120	SIM ROOM	CPT-4	RB-3	PNT-9	PNT-9	PNT-9	PNT-9	
A121	ELECTRICAL	SC-1	RB-4	PNT-9	PNT-9	PNT-9	PNT-9	
A122	LOCKER ROOM	PSC-1	*	*	*	*	*	* Refer to finish plan, sheet AE111
A123	STORAGE	PSC-1	RB-4	PNT-9	PNT-9	PNT-9	PNT-9	
A124	TOILET	PSC-1	MB-2	*	*	*	*	* Refer to elevations
A125	CPR	**CPT-4	RB-3	PNT-9	PNT-9	PNT-9	PNT-9	** Back w/ NexStep
A126	LPN/CNA CLASSROOM	*	RB-3	PNT-9	PNT-9	PNT-9	PNT-9	* Refer to finish plan
A127	RN CLASSROOM	*	RB-3	PNT-9	PNT-9	PNT-9	PNT-9	* Refer to finish plan
A128	LPN/RN/CNA LAB SUITE	*	SCB-1	*	*	*	*	* Refer to finish plan
A129	STORAGE	SV-1	RB-4	PNT-9	PNT-9	PNT-9	PNT-9	
A130	FIRE RISER ROOM	SC-1	-	-	-	-	-	
A200	CORRIDOR	PSC-1	*	*	*	*	*	* Refer to elevations
A201	BT LAB	CPT-4	RB-3	PNT-9	PNT-9	PNT-9	PNT-9	
A202	TESTING	CPT-4	RB-3	PNT-9	PNT-9	PNT-9	PNT-9	
A203	BT OFFICE	CPT-4	RB-3	PNT-9	PNT-9	PNT-9	PNT-9	
A204	USU CLASSROOM	CPT-4	*	PNT-9	PNT-10	PNT-10	PNT-9	
A205	USU CLASSROOM	CPT-4	*	PNT-10	PNT-10	PNT-9	PNT-9	
A206	IT OFFICE	CPT-4	RB-3	PNT-9	PNT-9	PNT-9	PNT-9	
A207	IT CLASSROOM	CPT-4	RB-3	PNT-9	PNT-9	PNT-9	PNT-9	
A208	IT TESTING	CPT-4	RB-3	PNT-9	PNT-9	PNT-9	PNT-9	
A209	IT LAB	SCF-1	RB-4	PNT-9	PNT-9	PNT-9	PNT-9	
A210	SERVER / IT STORAGE	PSC-1	RB-4	PNT-9	PNT-9	PNT-9	PNT-9	
A211	IT ADMIN	CPT-4	RB-4	PNT-9	PNT-9	PNT-9	PNT-9	
A212	IT ASSISTANT	CPT-4	RB-4	PNT-9	PNT-9	PNT-9	PNT-9	
B100	CORRIDOR	PSC-1	MB-1	*	*	*	*	* Refer to elevations
B101	LOBBY	**	MB-1	*	*	*	*	*Refer to elevations for wall finish **Refer to finish plan for floor finish
B101A	VESTIBULE	*	-	-	-	-	-	* Refer to finish plan
B102	VESTIBULE	CPT-6	*MB-1	-	PNT-9	-	PNT-9	*(MB-1) Base at east and west walls only
B103	MULTIPURPOSE ROOM	CPT-1	RB-2	PNT-3	PNT-3	PNT-3	PNT-3	
B104	STORAGE	SC-1	RB-4	PNT-9	PNT-9	PNT-9	PNT-9	
B105	WOMEN	PSC-1	MB-2	*	*	*	*	* Refer to elevations
B106	MEN	PSC-1	MB-2	*	*	*	*	* Refer to elevations
B107	KITCHEN STORAGE	T-2	TB-1	*	*	*	*	*Carry wall protection (WP-1) upwall 8'-0" above finish floor; Paint wall above (PNT-9)
B108	KITCHEN	T-2	*	*	*	*	*	* Refer to finish plan
B109	WALK-IN COOLER	-	-	-	-	-	-	
B110	BOOKSTORE	PSC-1	RB-4	PNT-9	PNT-9	PNT-9	PNT-9	
B110A	BOOKSTORE STORAGE	PSC-1	RB-4	PNT-9	PNT-9	PNT-9	PNT-9	
B111	CAFETERIA	PSC-1	MB-1	*	*	*	*	* Refer to elevations
B112	MEDIA	PSC-1	MB-1	*	*	*	*	* Refer to elevations
B113	PLACEMENT	CPT-2	RB-3	PNT-9	PNT-9	PNT-9	PNT-9	
B114	PLACEMENT OFFICE	CPT-2	RB-3	PNT-9	PNT-9	PNT-9	PNT-9	
B115	OFFICE	CPT-2	RB-3	PNT-9	PNT-9	PNT-9	PNT-9	
B116	ASSESSMENT	CPT-2	RB-3	PNT-9	PNT-9	PNT-9	PNT-9	
B117	ELEV. EQ.	SC-1	RB-4	PNT-9	PNT-9	PNT-9	PNT-9	
B118	ELEVATOR	CPT-1	ELEV -01	ELEV -01	ELEV -01	ELEV -01	ELEV -01	
B119	RECEPTION	PSC-1	MB-1	*	*	*	*	* Refer to elevations
B120	ENROLLMENT	CPT-2	*	*	*	*	*	* Refer to finish plan
B120A	CORRIDOR	CPT-2	*	*	*	*	*	* Refer to finish plan
B121	ENROLMENT WAITING	PSC-1	MB-1	*	*	*	*	* Refer to finish plan
B122	COUNSELOR	CPT-2	RB-3	PNT-9	PNT-9	PNT-9	PNT-9	
B123	SIS OFFICE	CPT-2	RB-3	PNT-9	PNT-9	PNT-9	PNT-9	
B124	STORAGE / STUDENT RECORDS	CPT-2	RB-3	PNT-9	PNT-9	PNT-9	PNT-9	
B125	SPARE OFFICE	CPT-2	RB-3	PNT-9	PNT-9	PNT-9	PNT-9	
B126	SS VP	CPT-2	RB-3	PNT-9	PNT-9	PNT-9	PNT-9	
B200	CORRIDOR	CPT-1	*	*	*	*	*	* Refer to finish plan
B201	DIRECTOR	CPT-1	RB-3	PNT-9	PNT-9	PNT-9	PNT-9	
B202	CURRICULUM DEVELOPER	CPT-1	RB-3	PNT-9	PNT-9	PNT-9	PNT-9	
B203	ASSISTANT	CPT-1	RB-3	PNT-9	PNT-9	PNT-9	PNT-9	
B204	VP INSTRUCTION OFFICE	CPT-1	RB-3	PNT-9	PNT-9	PNT-9	PNT-9	
B205	DIRECTOR	CPT-1	RB-3	PNT-9	PNT-9	PNT-9	PNT-9	
B206	CUSTOM	CPT-1	RB-3	PNT-9	PNT-9	PNT-9	PNT-9	
B207	USU OFFICE	CPT-1	RB-3	PNT-9	PNT-9	PNT-9	PNT-9	
B208	USU OFFICE	CPT-1	RB-3	PNT-9	PNT-9	PNT-9	PNT-9	
B209	DIRECTOR OFFICE / FINANCE	CPT-1	RB-3	PNT-9	PNT-9	PNT-9	PNT-9	
B210	HUMAN RESOURCES	CPT-1	RB-3	PNT-9	PNT-9	PNT-9	PNT-9	
B211	EXECUTIVE CONFERENCE ROOM	CPT-1	WB-1	WC-2	WC-2	WC-2	WC-2	
B212	PRESIDENT	CPT-1	WB-1	WC-2	WC-2	WC-2	WC-2	

ROOM FINISH SCHEDULE

ROOMS		FLOORS		WALL				
Number	Name	Floor Finish	Base Finish	North Wall	East Wall	South Wall	West Wall	Comments
B213	PRESIDENT ASSISTANT	CPT-1	RB-3	PNT-9	PNT-9	PNT-9	PNT-9	
B214	MARKETING / OFFICE	CPT-1	RB-3	PNT-9	PNT-9	PNT-9	PNT-9	
B215	STORAGE RECORDS	CPT-1	RB-3	PNT-9	PNT-9	PNT-9	PNT-9	
B216	OPEN OFFICE 2-3 PPL	CPT-1	*	*	*	*	*	* Refer to finish plan
B217	ELECTRICAL	SC-1	RB-4	PNT-9	PNT-9	PNT-9	PNT-9	
B218	PRINT / STOR.	CPT-1	*	*	*	*	*	* Refer to finish plan
B219	JAN.	SC-1	RB-4	PNT-9	*	*	PNT-9	* Refer to elevations
B220	STOR.	SC-1	RB-4	PNT-9	PNT-9	PNT-9	PNT-9	
B221	MEN	PSC-1	MB-2	*	*	*	*	* Refer to elevations
B222	WOMEN	PSC-1	MB-2	*	*	*	*	* Refer to elevations
B223	RECEPTION / WAITING	**	MB-1	*	*	*	*	*Refer to elevations for wall finish **Refer to finish plan for floor finish
B224	BOARDROOM	CPT-1	WB-1	WC-1	WC-1	WC-1	WC-1	
B225	KITCHEN	VF-1	RB-4	PNT-9	PNT-9	PNT-9	PNT-9	
B226	WORKROOM	CPT-2	RB-3	PNT-9	PNT-9	PNT-9	PNT-9	
B227	FACULTY/ BREAK	CPT-2	RB-3	PNT-9	PNT-9	PNT-9	PNT-9	
B228	TOILET	T-8	MB-3	*	*	*	*	* Refer to elevations
B229	LOCKER/SHOWER	**T-8	MB-3	*	*	*	*	* Refer to elevations **T-10 @ shower floor
B230	TOILET	T-8	MB-3	*	*	*	*	* Refer to elevations
B231	LOCKER/SHOWER	**T-8	MB-3	*	*	*	*	* Refer to elevations **T-10 @ shower floor
B232	EXERCISE	CPT-2	RB-3	*	PNT-9	PNT-9	PNT-9	* Refer to elevations
B233	WELLNESS	WF-1	MB-1	PNT-1	PNT-1	PNT-1	PNT-1	
C100	CORRIDOR	PSC-1	*	*	*	*	*	* Refer to finish plan
C100A	CORRIDOR	PSC-1	*	*	*	*	*	* Refer to finish plan
C100B	COORIDOR	PSC-1	*	*	*	*	*	* Refer to finish plan
C100C	VESTIBULE	CPT-6	MB-1	*	PNT-9	PNT-9	PNT-9	* Sealed tilt panel
C101	SHELLED LAB	SC-1	-	-	-	-	-	Shell Space
C102	SHELLED CLASSROOM	SC-1	-	-	-	-	-	Shell Space
C102A	RECEIVING	SC-1	-	-	-	-	-	Shell Space
C103	CONSTRUCTION TECHNOLOGY LAB	SC-1	-	CMU / PNT-10	CMU / PNT 10	*	*	* Sealed tilt panel up to 8'-0" above finish floor. Painted (PNT-9) gypsum wall board above to deck.
C103A	VESTIBULE	SC-1	-	CMU / PNT-10	CMU / PNT-10	CMU / PNT-10	CMU / PNT-10	
C104	CONSTRUCTION TECHNOLOGY CLASSROOM	**	**	CMU / PNT-9	*	CMU / PNT-9	CMU / PNT-9	** Refer to finish plan * Sealed tilt panel up to 8'-0" above finish floor. Painted (PNT-9) gypsum wall board above to deck.
C105	CT STORAGE	SC-1	-	CMU / PNT-10	CMU / PNT-10	CMU / PNT-10	CMU / PNT-10	
C106	CT OFFICE	CPT-4	RB-3	CMU / PNT-9	CMU / PNT-9	CMU / PNT-9	CMU / PNT-9	
C107	WELDING LAB	SC-1	-	CMU / PNT-10	*	CMU / PNT-10	*	* Sealed tilt panel up to 8'-0" above finish floor. Painted (PNT-9) gypsum wall board above to deck.
C108	GRINDING	SC-1	-	CMU / PNT-10	CMU / PNT-10	CMU / PNT-10	*	* Sealed tilt panel up to 8'-0" above finish floor. Painted (PNT-9) gypsum wall board above to deck.
C109	MAIN ELECTRICAL	SC-1	-	-	-	-	-	
C110	SUPPLY ROOM	SC-1	-	CMU / PNT-10	CMU / PNT-10	CMU / PNT-10	*	* Sealed tilt panel up to 8'-0" above finish floor. Painted (PNT-9) gypsum wall board above to deck.
C111	TOOL STORAGE	SC-1	-	CMU / PNT-10	CMU / PNT-10	CMU / PNT-10	CMU / PNT-10	
C112	DIESEL CLASSROOM	SC-1	RB-4	CMU / PNT-9	CMU / PNT-9	CMU / PNT-9	CMU / PNT-9	
C113	DIESEL OFFICE	SC-1	RB-4	CMU / PNT-9	CMU / PNT-9	CMU / PNT-9	CMU / PNT-9	
C114	WELDING CLASSROOM	SC-1	RB-4	CMU / PNT-9	CMU / PNT-9	CMU / PNT-9	CMU / PNT-9	
C115	WELDING OFFICE	SC-1	RB-4	CMU / PNT-9	CMU / PNT-9	CMU / PNT-9	CMU / PNT-9	
C116	WL STORAGE	SC-1	-	CMU / PNT-10	*	CMU / PNT-10	CMU / PNT-10	* Sealed tilt panel up to 8'-0" above finish floor. Painted (PNT-9) gypsum wall board above to deck.
C117	LOCKER	PSC-1	**	CMU / PNT-9	*	CMU / PNT-9	CMU / PNT-9	** Refer to finish plan for base info. * Sealed tilt panel up to 8'-0" above finish floor. Painted (PNT-9) gypsum wall board above to deck.
C118	TOILET	PSC-1	MB-2	*	*	*	*	* Refer to elevations
C119	LOCKER	PSC-1	*	CMU / PNT-9	CMU / PNT-9	CMU / PNT-9	CMU / PNT-9	* Refer to finish plan for base info.
C120	TOILET	PSC-1	MB-2	*	*	*	*	* Refer to elevations
C121	CE & R LAB	SC-1	-	*	*	CMU / PNT-10	*	* Sealed tilt panel up to 8'-0" above finish floor. Painted (PNT-9) gypsum wall board above to deck.
C122	CE & R STORAGE	SC-1	-	CMU / PNT-10	CMU / PNT-10	CMU / PNT-10	CMU / PNT-10	
C123	CE & R OFFICE	SC-1	RB-4	CMU / PNT-9	CMU / PNT-9	CMU / PNT-9	CMU / PNT-9	
C124	CE & R CLASSROOM	SC-1	*	CMU / PNT-9	CMU / PNT-9	CMU / PNT-9	CMU / PNT-9	* Refer to finish plan
C201	CDL CLASSROOM	CPT-4	*	PNT-9	PNT-9	PNT-10	PNT-10	* Refer to finish plan
C202	PUMP	SC-1	RB-6	-	PNT-10	-	PNT-10	
C203	BOILER	SC-1	RB-6	-	PNT-10	-	PNT-10	
C204	IT WORKROOM	SC-1	RB-4	PNT-9	PNT-9	PNT-9	PNT-9	
C205	STORAGE	SC-1	RB-6	PNT-10	PNT-10	PNT-10	PNT-10	
C206	CORRIDOR	SC-1	RB-6	CMU / PNT-10	PNT-10	PNT-10	PNT-10	
C208	MEZZANINE STORAGE	SC-1	-	-	-	CMU / PNT-10	*	* Sealed tilt panel up to 8'-0" above finish floor. Painted (PNT-9) gypsum wall board above to deck.
C209	STORAGE	SC-1	RB-6	PNT-10	PNT-10	CMU / PNT-10	PNT-10	

ACCESSORY SCHEDULE

PRODUCT	MANUFACTURER	MODEL/STYLE #	FINISH	SIZE	ROOM #	COMMENTS
Mirror	GAMCO	Frameless Stainless Steel Mirrors M-series	Mirror-finish	24" X 36"	A113, A115, A124,C118, C120	Mirror
Mirror	-	20 Gauge T430 Annealed Polished Stainless Steel	Mirror-finish	15" X 42"	B105, B106, B221, B222, B228, B230	Custom size mirror/ $\frac{1}{4}$"return edge for rigidity, and backing material $\frac{1}{4}$" backing
Light Fixture	ARTEMIDE	Basic Strip 36 - Matte white powder coated finish	Chrome End Cap	36"	B105, B106, B221, B222, B228, B230	Refer elevations for placement of light fixtures fluorescent Lamp 1 X 25W (T8/bi-pin)
Light fixture	Oxygen Lighting	Double Pebble Vanity 2-5121-xx	Polished Chrome (14)	20.31"	A113, A115, A124,C118, C120	Refer elevations for placement of light fixtures lamp 2x60W med. incandescent
Soap Dispenser	Bobrick	B-822 Series Soap Dispenser	Polished Chrome	-	A104, A128, B105, B106, B221, B222, B228, B230	Mount through 1" dia. hole in counter top; escutcheon dia 2 $\frac{1}{16}$"; spout to extend over rim edge of bowl
Soap Dispenser	Bobrick	B-26607 Surface-Mounted Soap Cartridge Dispenser 500ML	Satin-finish	-	A128, A113, A115, A124, C118, C120	Install above sink (100-110 mm AFF); Leave space above the cover to allow exchange of container
Paper Towel Dispenser	Bobrick	B-29744 Semi-Recessed Automatic Universal Roll Paper Towel Dispenser	Satin-finish	-	All restrooms*	*Refer to elevations for typical mounting position
Waste Receptacle	Bobrick	B-43644 ConturaSeries Recessed Waste Receptacle	Satin-finish	-	All restrooms*	*Refer to elevations for typical mounting position
Toilet Paper/Seat Cover	Bobrick	B-3571 ClassicSeries Partition-Mounted Seat C./Sani. Napkin/T. Tissue	Satin-finish	-	B105/B222*	*Refer to elevations for typical mounting position
Toilet Paperl/Seat Cover	Bobrick	B-3471 ClassicSeries Partition-Mounted Seat Cover/Toilet Tissue Dis.	Satin-finish	-	B106/B221*	*Refer to elevations for typical mounting position
Toilet Paper Dispenser	Bobrick	B-6997Recessed Dual-roll Toilet Tissue Dispenser with Hoods	Satin-finish	-	A113, A115, A124, C118, C120, B228, B230	*Refer to elevations for typical mounting position
Toilet Seat Cover	Bobrick	B-4221ContraSeries Surface Seat Cover Dispenser	Satin-finish	-	A113, A115, A124, C118, C120, B228, B230	*Refer to elevations for typical mounting position
Sanitary Napkin Dis[osal	Bobrick	B-270 ContraSeries Sanitary Napkin Disposal	Satin-finish	-	A113, A115, A124, C118, C120, B230	*Refer to elevations for typical mounting position
Grab Bars	Bobrick	B-6806 Grab Bar Concealed Mounting with Snap Flange	Satin-finish	1-1/2" Diameter	All restrooms*	*Refer to elevations for placement; per location type as required by code
Coat Hook	Bobrick	B-682 Hat and Coat Hook	Polished SS	2"x2"; 6" Hook	All restrooms*	Place hook on the back of all paritiion doors for Multi-stall restrooms; refer toe elevations for single use restrooms
Baby Changing Center	Bobrick	KB110-SSRE Horizontal, Recessed Mounted	Satin Stainless Steel	-	B105, B106	*Refer to elevations for typical mounting position
Toilet Partition	Bobrick	1548.64 ClassicSeries Toilet Partition System	Satin Stainless Steel	-	B105, B106, B221, B222*	*Refer to Floor Plans for Dimensions of Stalls; Custom Laminate PL-5; Ceiling Hung
Urinal Screen	Bobrick	1545.64 ClassicSeries Urinal Screen System	Satin Stainless Steel	-	B105, B106, B221, B222*	*Refer to Floor Plans for Dimensions of Screens; Custom Laminate PL-5; Wall Hung
Wood Laminte Locker	Hollman	Model B	Wilsonart 7209-60	72"Hx12"Wx15"D	A122	Interior Opt. 1; Interior finish "white"; Flush Panel; Padlock HASP in Satin Chrome; Ceiling Hook;Satin Chrome Pulls
Metal Locker	Lockerixchange	Vented Locker-Double Tier-1 W-6 Feet H-15" Deep (SKU 72165GY-A)	Deep Gray	12"WX78"Hx15"D	C117/C119	Add-ons: Front Base for 12" W; Sloping Hood-for 12" W; and End base-15" Deep
Shower Curtain Rod	Bobrick	B-207 Shower Curtain Rod with Concealed Mounting	Satin-finish/SS	1# Dia. 36" L	B229, B231*	*Owner to provide curtain
Shower Seat	Bobrick	B-5181 Reversible Solid Phenolic Folding Shower Seat	Ivory Color Seat	-	B229, B231*	*Refer to elevations for typical mounting position
Paper Towel Dispenser	Bobrick	B-526 TrimLineSeries: Countertop paper Towel Dispenser	Satin Finish SS	-	A104, A128	At island sink only
Pass-Through-Cabinet	Bobrick	B-505 Recessed Specimen Pass-Through-Cabinet	Satin Finish SS	-	A113*	*Refer to elevations for typical mounting position
Glove Dispenser	Bowman	Triple box Stainless Steel Glove Dispenser (SKU GS-006)	Stainless Steel	-	A104, A106, A107, A108, A128	*Refer to elevations for typical mounting position
Cabinet Pull	Doug Mockett	DP128 6 $\frac{11}{16}$" Round Top Pull	Satin Stainless Steel	6 $\frac{11}{16}$"		*Refer to elevations for typical mounting position
Sanitary Napkin Vendor	Bobrick	B-37063 Trimlineseries Recessed Napkin/Tampon Vendor	Satin Stainless Steel	-	B105, B222	*Refer to elevations for typical mounting position
Soap Dish	Bobrick	B-34380 Recessed Heavy-Duty Soap Dish	Stainless Steel	-	B229, B231	*Refer to elevations for typical mounting position
Toilet Paper Dispenser	Bobrick	B-386 Partition-Mounted Dual-side Multi-Roll Toilet Dispenser	Satin Stainless Steel	-	B105, B106, B221, B222	*Refer to elevations for typical mounting position; ADA & Ambulatory stalls only
Sanitary Napkin Dispenser	Bobrick	B-4354 ConturaSeries Partition-Mounted Sanitary Disposal	Satin-finish	-	B105, B222	*Refer to elevations for typical mounting position; ADA & Ambulatory stalls only
Waste Receptacle	Bobrick	B-262 ClassicSeries Surface-Mounted Paper Towel Dispenser	Satin-finish	-	A104, A106, A107, A128	*Refer to elevations for typical mounting position

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project:

TOOELE APPLIED TECHNOLOGY COLLEGE - NEW BUILDING

88 South Tooele Blvd
Tooele, UT 84074

DFCM PROJECT #11064280

project#: 11.0420
date: 1/20/2012

revisions:

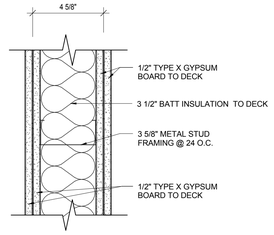
title:

Finish Schedule

sheet:

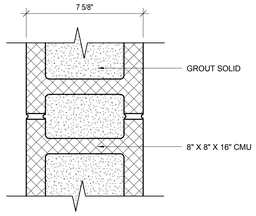
AE611

100% Construction Documents



NOTE: ESTIMATED STC -RATING: 55 TO 59 (SEE ACOUSTICAL WALL INSTALATION DESIGN GUIDE, TEST NUMBER GA-WP-1521).

R2 Wall Type
3" = 1'-0"



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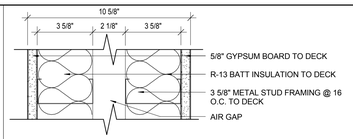

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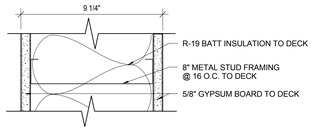

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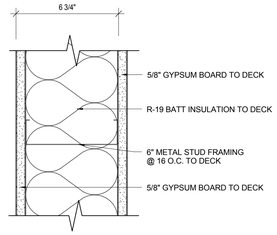

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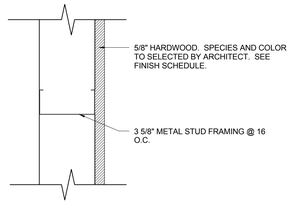

A6 Wall Type
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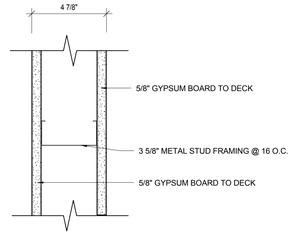

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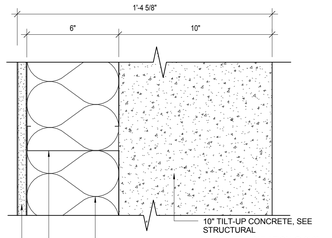
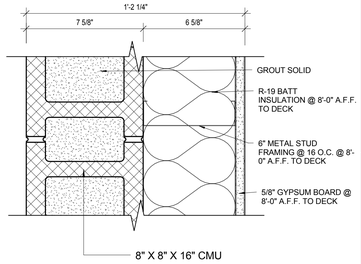
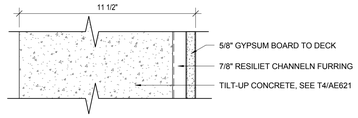


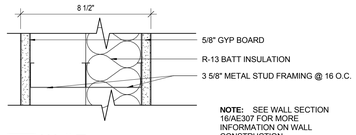
T1 Wall Type
3" = 1'-0"



M2 Wall Type
3" = 1'-0"

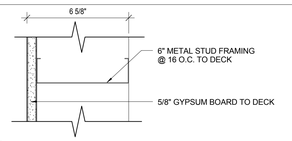


D4 Wall Type
3" = 1'-0"

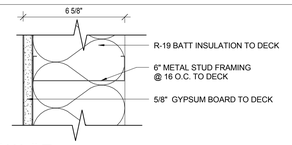


NOTE: SEE WALL SECTION 16/AE307 FOR MORE INFORMATION ON WALL CONSTRUCTION

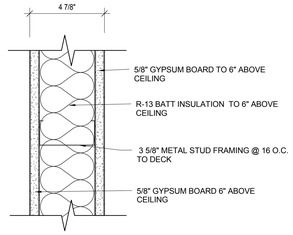
D5 Wall Type
3" = 1'-0"



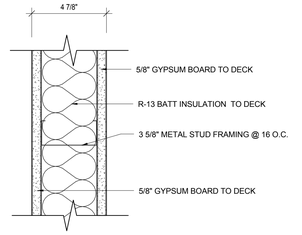
B3 Wall Type
3" = 1'-0"



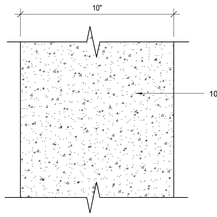
B4 Wall Type
3" = 1'-0"



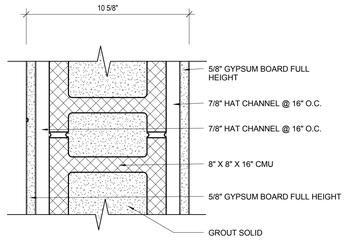
A7 Wall Type
3" = 1'-0"



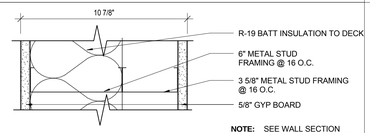
A2 Wall Type
3" = 1'-0"



T2 Wall Type
3" = 1'-0"

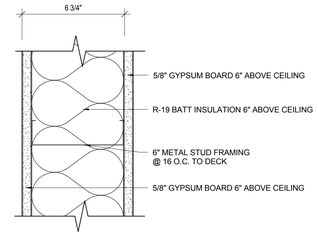


M3 Wall Type
3" = 1'-0"

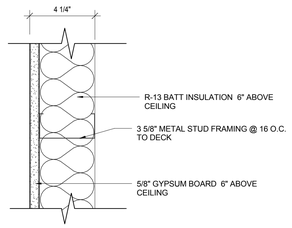


NOTE: SEE WALL SECTION 16/AE307 AND ELEVATIONS FOR MORE INFORMATION ON WALL CONSTRUCTION

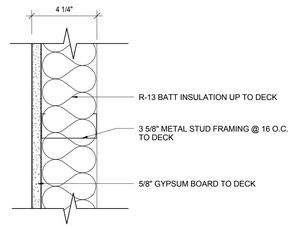
D6 Wall Type
3" = 1'-0"



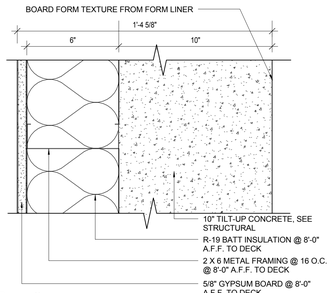
B5 Wall Type
3" = 1'-0"



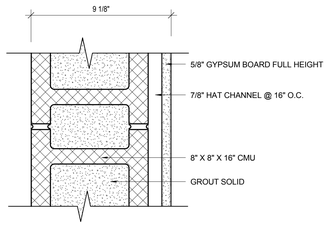
A8 Wall Type
3" = 1'-0"



A3 Wall Type
3" = 1'-0"

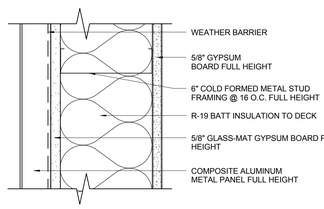


T3 Wall Type
3" = 1'-0"

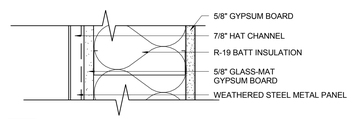


M4 Wall Type
3" = 1'-0"

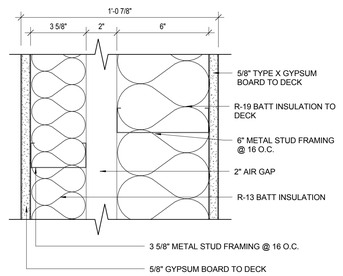
E1 Wall Type
3" = 1'-0"



E2 Wall Type
3" = 1'-0"



E3 Wall Type
3" = 1'-0"



D1 Wall Type
3" = 1'-0"

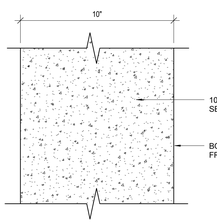
B6 Wall Type
3" = 1'-0"

NOT USED

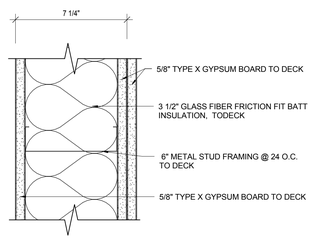
A9 Wall Type
3" = 1'-0"

NOTE: PARTITION PARTIAL WALL HEIGHT 42", SEE 9/AE901 FOR CAP DETAIL

A4 Wall Type
3" = 1'-0"

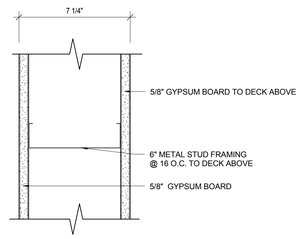


T4 Wall Type
3" = 1'-0"



NOTE: FIRE RATED WALL AS PER GA-600-2009 FIRE RESISTANCE DESIGN MANUAL. (GA FILE NO. WP 1052). **ESTIMATED STC -RATING:** 50 TO 54 (SEE WP 1350 (FM WP-45, 6-19-68; OSU T-1770, 8-61;ULC 79T500, 79T497, 8-21-81, ULC DESIGN, W415). **FIRE RATING:** 1 HOUR (SEE NRCC 817-NV, 2-3-81)

R1 Wall Type
3" = 1'-0"



B1 Wall Type
3" = 1'-0"

NOT USED

A5 Wall Type
3" = 1'-0"

LICENSED ARCHITECT
6710870
JOSEPH FLINT SMITH
STATE OF UTAH
01.20.12

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project:
TOOELE APPLIED TECHNOLOGY COLLEGE - NEW BUILDING

88 South Tooele Blvd
Tooele, UT 84074

DFCM PROJECT #11064280

project#: 11.0420
date: 1/20/2012

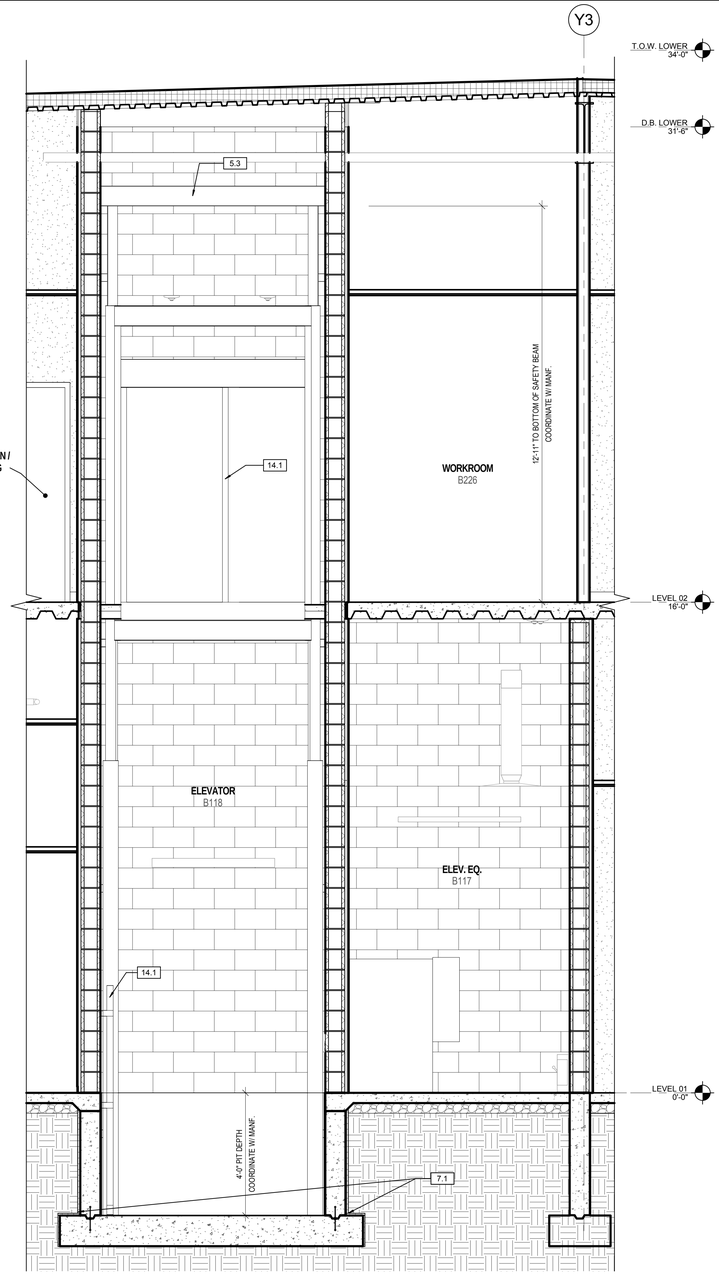
revisions :

Wall Types

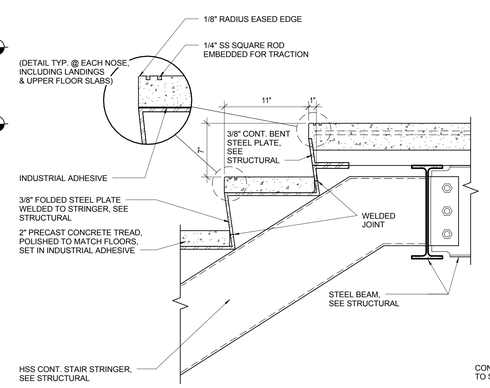
sheet:

AE621

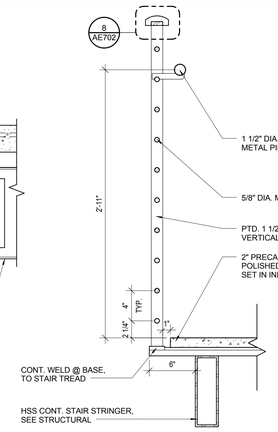
100% Construction Documents



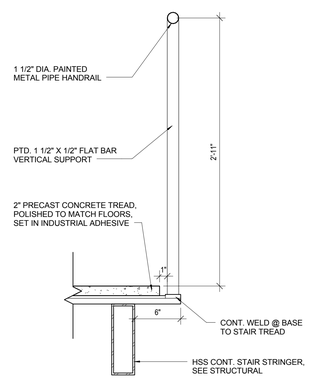
4 Elevator Section
1/2" = 1'-0"



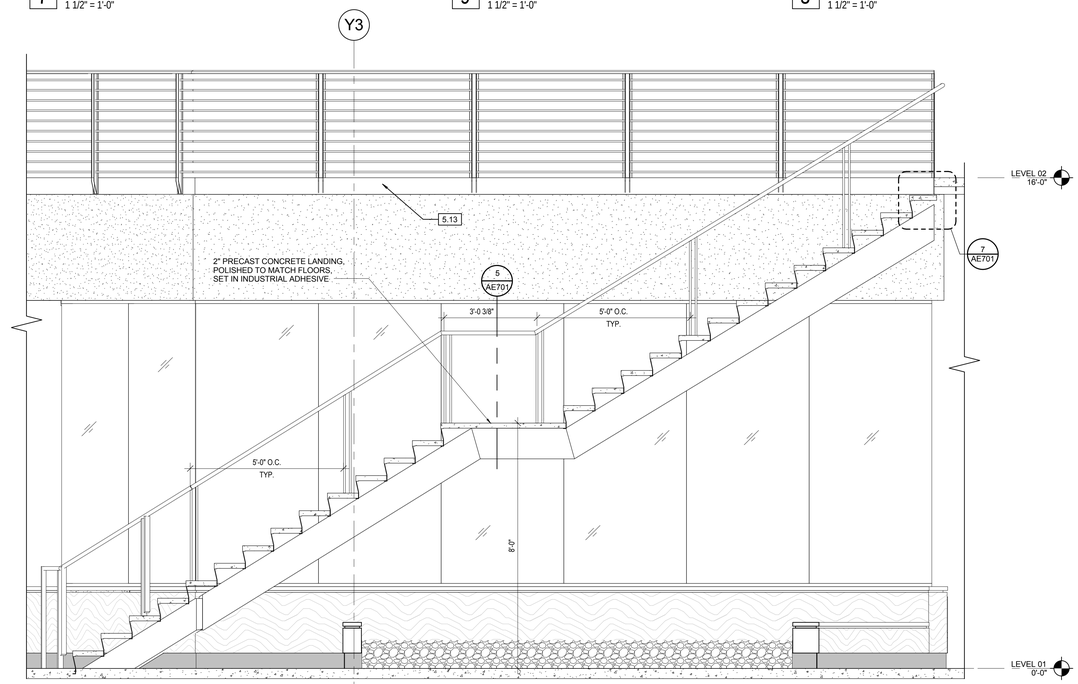
7 B101 Stair Section
1 1/2" = 1'-0"



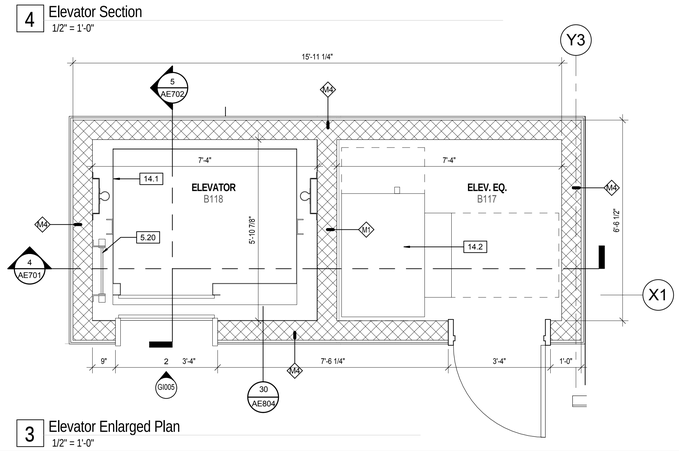
9 Guardrail w/ Handrail Detail
1 1/2" = 1'-0"



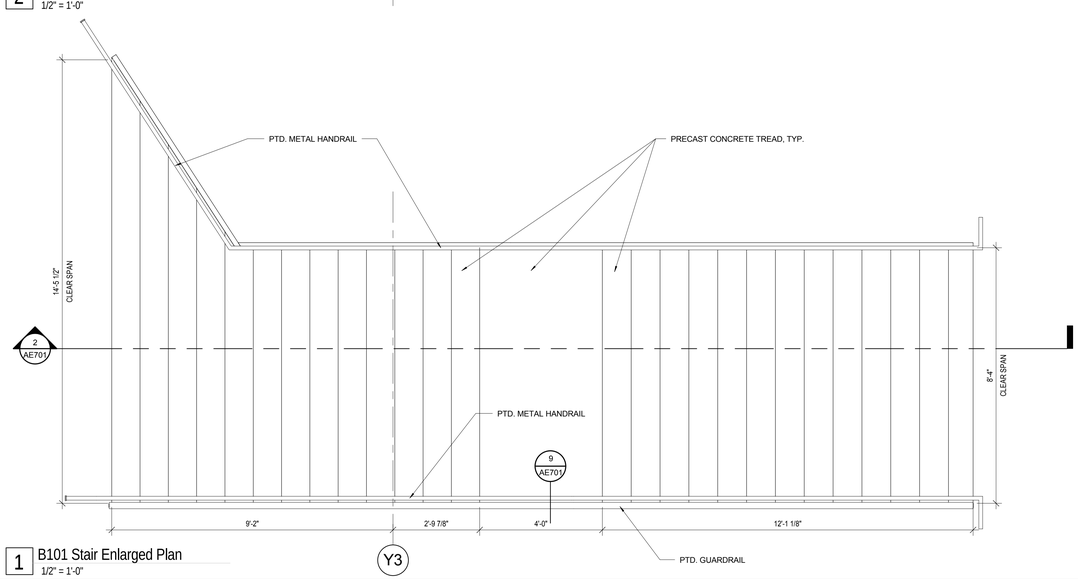
5 Stair Handrail Detail
1 1/2" = 1'-0"



2 B101 Stair Section
1/2" = 1'-0"



3 Elevator Enlarged Plan
1/2" = 1'-0"



1 B101 Stair Enlarged Plan
1/2" = 1'-0"

KEYNOTE LEGEND

5.3	STEEL SAFTEY BEAM AS REQUIRED PER OSHA 1926.502. SEE STRUCTURAL.
5.13	3" METAL DECK, SEE STRUCTURAL
5.20	ELEVATOR PIT LADDER
7.1	SELF ADHERING SHEET WATERPROOFING W/PROTECTION BOARD AND WATER AT FOOTING.
14.1	HYDRAULIC ELEVATOR
14.2	ELEVATOR EQUIPMENT AND CONTROLS

GENERAL ELEVATOR NOTES

1	VERIFY ELEVATOR DIMENSIONS AND ELEVATIONS WITH MANUFACTURER.

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project:

TOOELE APPLIED TECHNOLOGY COLLEGE - NEW BUILDING

88 South Tooele Blvd
Tooele, UT 84074

DFCM PROJECT #11994280

project#: 11.0420
date: 1/20/2012

revisions:

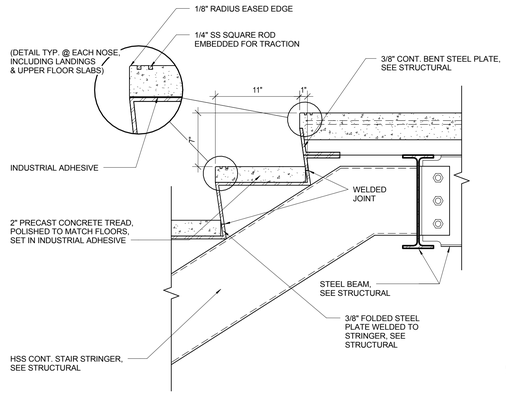
title:

Enlarged Stair/Elevator Plans/Sections

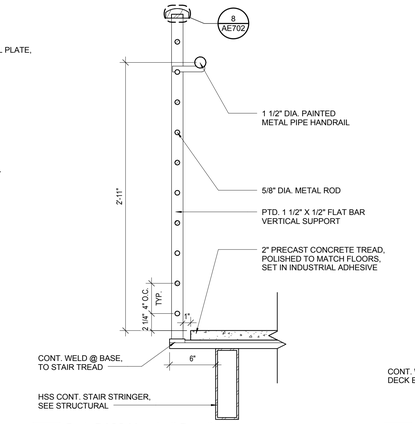
sheet:

AE701

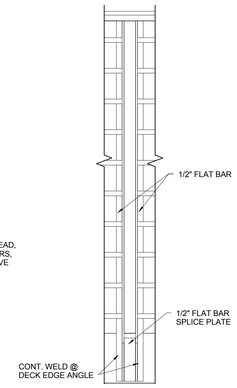
100% Construction Documents



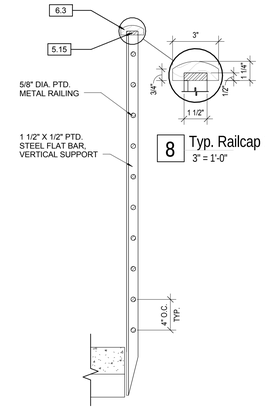
4 Callout of B100 Stair Section
1 1/2" = 1'-0"



6 Stair B100 Handrail Detail
1 1/2" = 1'-0"

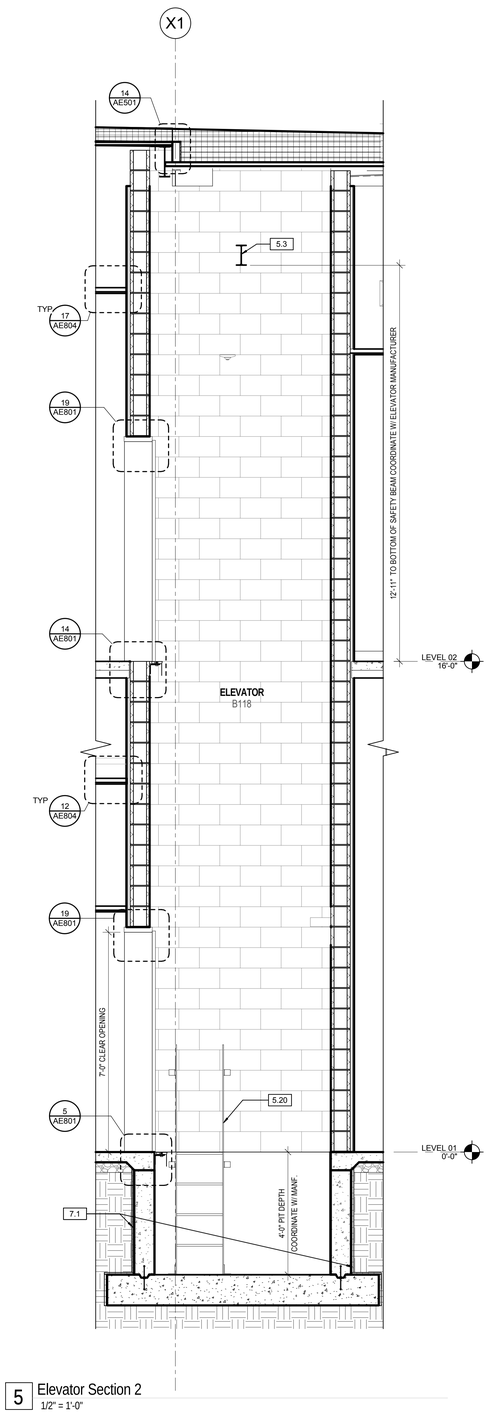


7 Typ. Guardrail Elevation
1 1/2" = 1'-0"

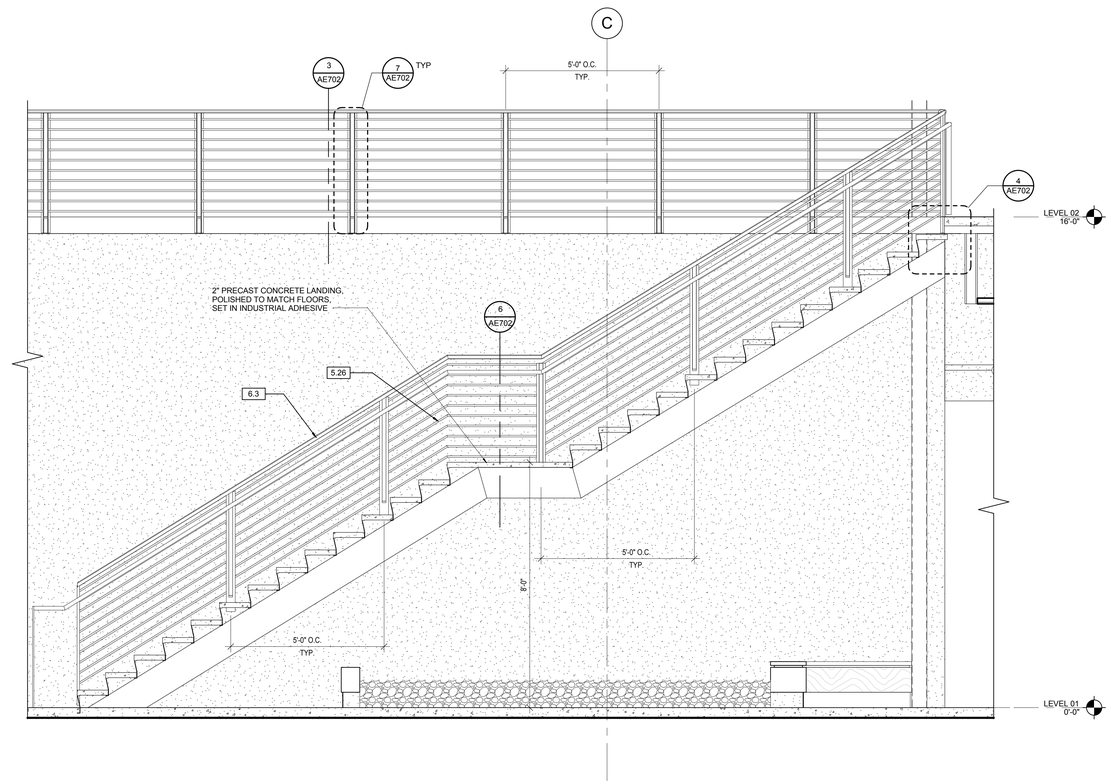


8 Typ. Railcap Detail
3" = 1'-0"

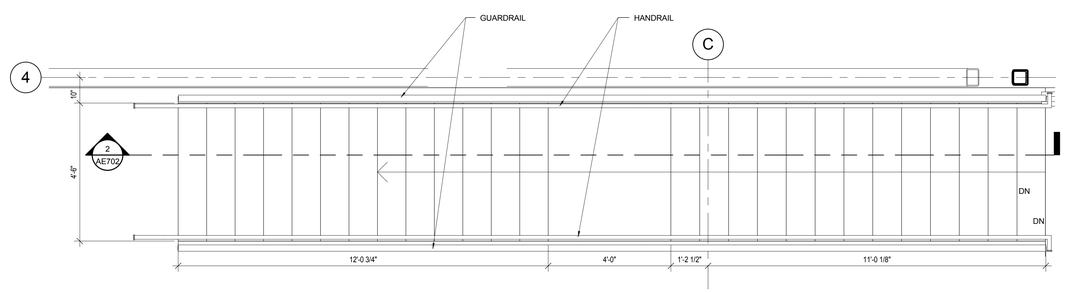
3 Typ. Guardrail Section
1 1/2" = 1'-0"



5 Elevator Section 2
1/2" = 1'-0"



2 B100 Stair Section
1/2" = 1'-0"



1 B100 Stair Enlarged Plan
1/2" = 1'-0"

KEYNOTE LEGEND

3.1	CAST-IN-PLACE CONCRETE SLAB, SEE STRUCTURAL
5.3	STEEL SAFTEY BEAM AS REQUIRED PER OSHA 1926.502. SEE STRUCTURAL.
5.15	1.5" X .5" FLAT BAR
5.20	ELEVATOR PIT LADDER
5.26	ORNAMENTAL RAILINGS
6.3	1 1/2" X 2 1/2" RAIL CAP
7.1	SELF ADHERING SHEET WATERPROOFING W/PROTECTION BOARD AND WATER AT FOOTING.

LICENSED ARCHITECT
6710870
JOSEPH FLINT SMITH
STATE OF UTAH
01.20.12

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project:
TOOELE APPLIED TECHNOLOGY COLLEGE - NEW BUILDING

88 South Tooele Blvd
Tooele, UT 84074

DFCM PROJECT #11064280

project#: 11.0420
date: 1/20/2012

revisions:

Enlarged Stair Plan/Section

sheet:

AE702

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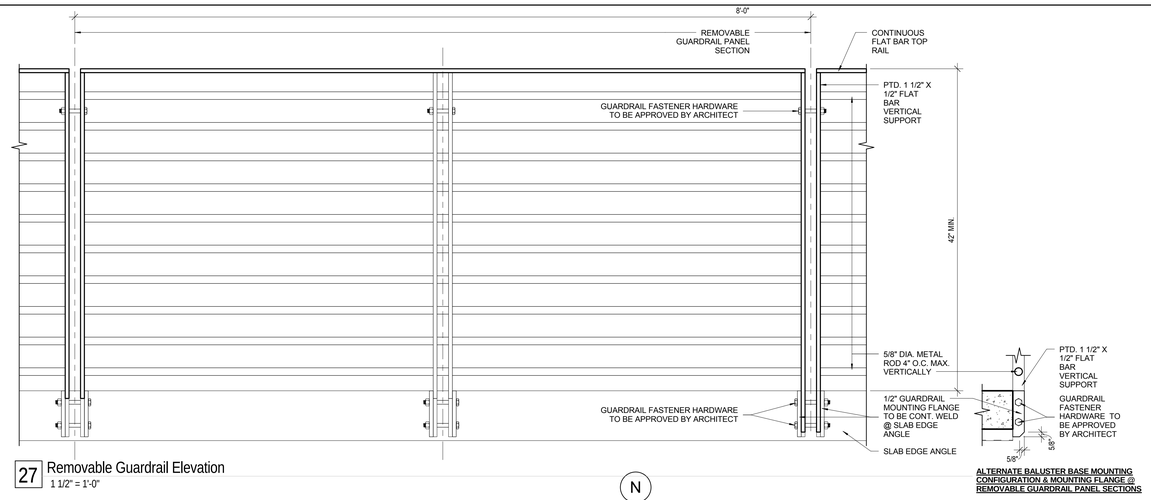
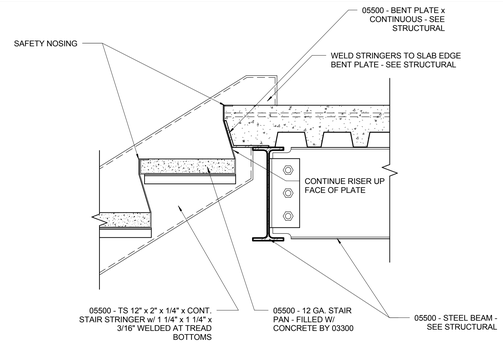
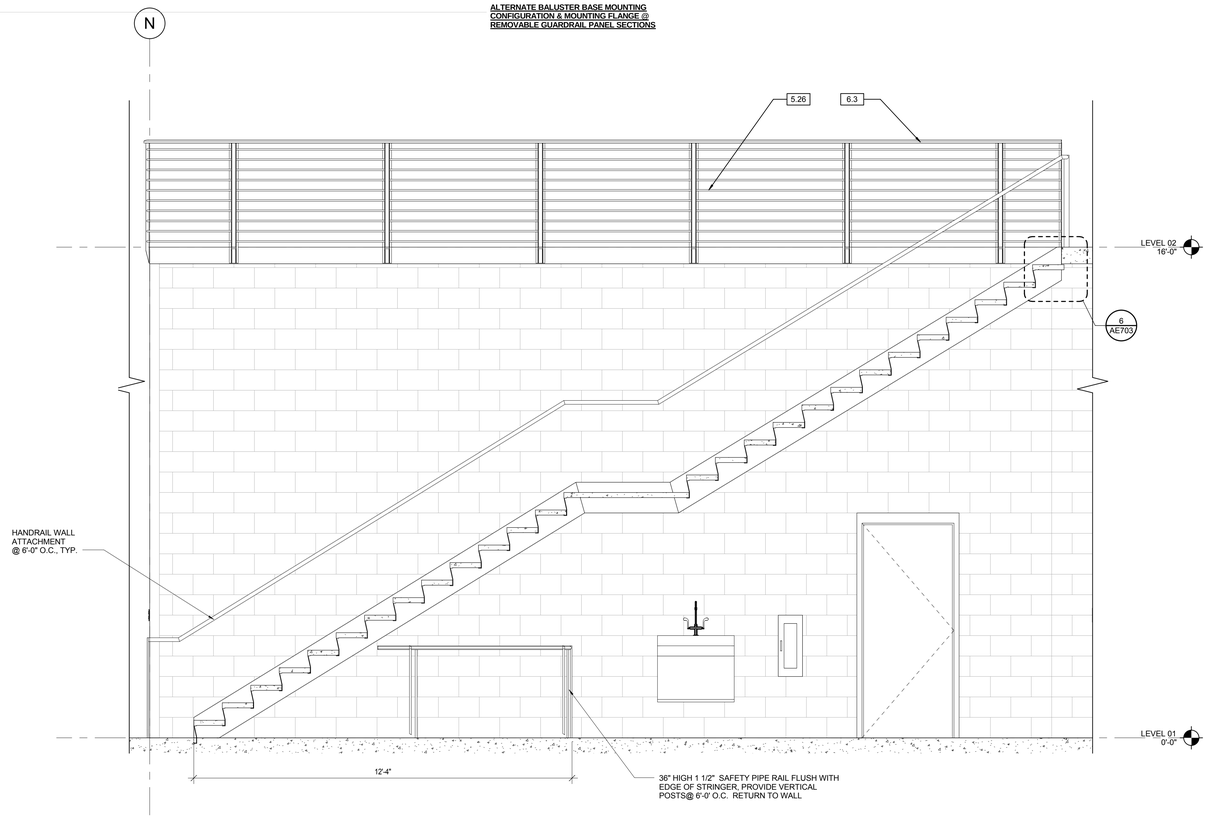


27 Removable Guardrail Elevation
1 1/2" = 1'-0"

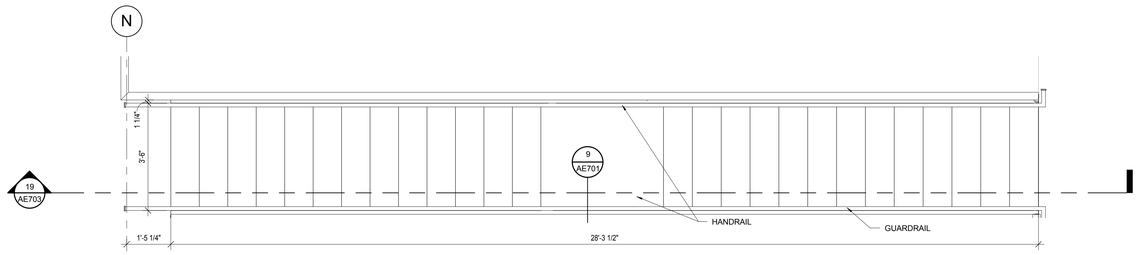
ALTERNATE BALUSTER BASE MOUNTING CONFIGURATION & MOUNTING FLANGE @ REMOVABLE GUARDRAIL PANEL SECTIONS



6 Callout of C121 Stair Section
1 1/2" = 1'-0"



19 C121 Stair Section
1/2" = 1'-0"



20 C121 Stair Enlarged Plan
1/2" = 1'-0"

KEYNOTE LEGEND

5.26	ORNAMENTAL RAILINGS
6.3	1 1/2" X 2 1/2" RAIL CAP

LICENSED ARCHITECT 6710870 JOSEPH FLINT SMITH STATE OF UTAH
01.20.12

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project:
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88 South Tooele Blvd
Tooele, UT 84074

DFCM PROJECT #11064280

project#: 11.0420
date: 1/20/2012

revisions:

Enlarged Stair Plan/Section

sheet:

AE703

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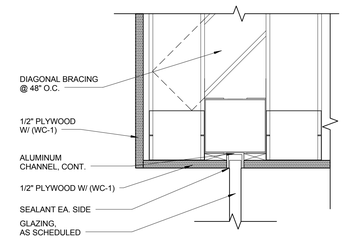
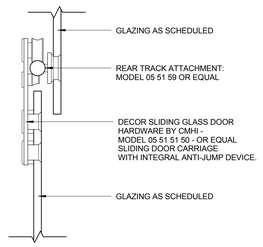
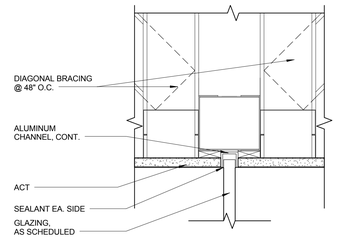


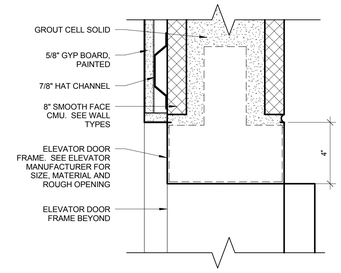
22 Glass Panel Head @ Wood Ceiling
3" = 1'-0"



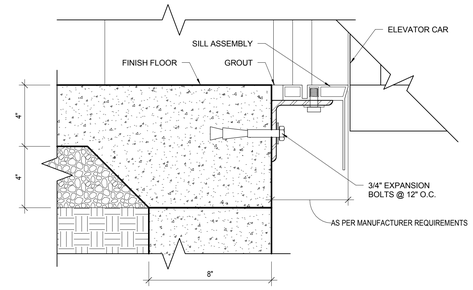
17 Sliding Glass Door Head
3" = 1'-0"



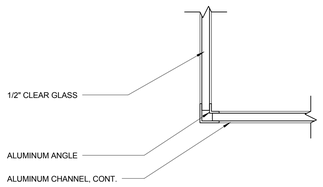
24 Glass Panel Head @ ACT
3" = 1'-0"



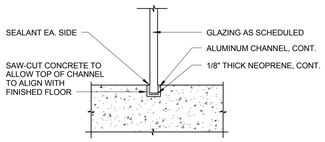
19 Elevator Head Detail
3" = 1'-0"



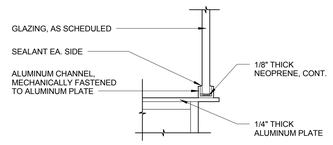
5 Elevator
3" = 1'-0"



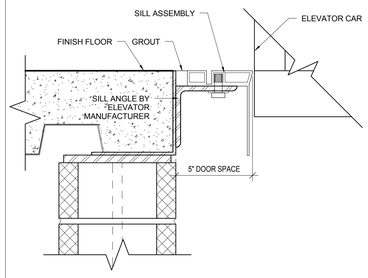
9 Butt Glazed Corner
3" = 1'-0"



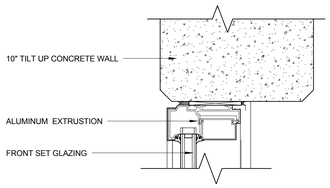
18 Glass Panel Sill @ Concrete
3" = 1'-0"



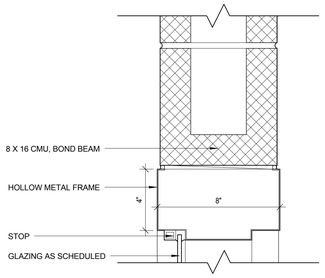
21 Bookstore Glass Panel - Sill
3" = 1'-0"



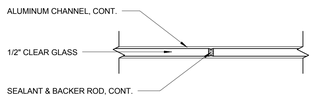
14 Elevator
3" = 1'-0"



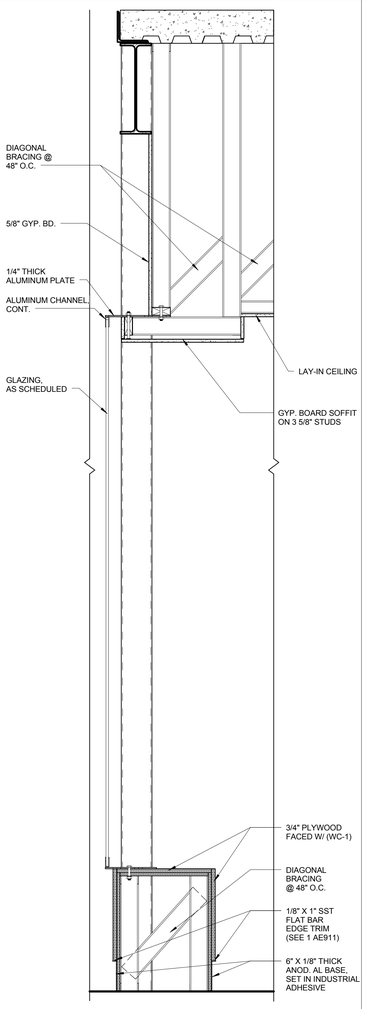
16 SF Head @ Tilt Up Wall
3" = 1'-0"



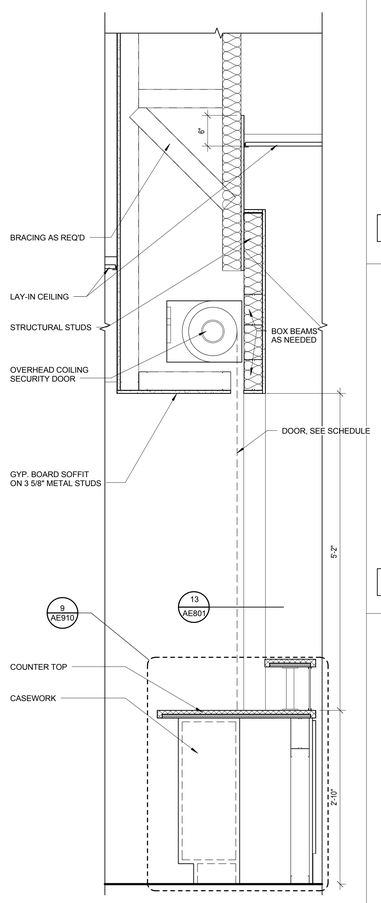
4 HM -Window/Sidelite Head @ CMU
3" = 1'-0"



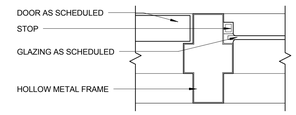
8 Butt Glazing
3" = 1'-0"



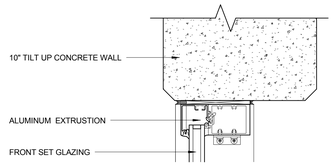
23 Bookstore SF Section
1" = 1'-0"



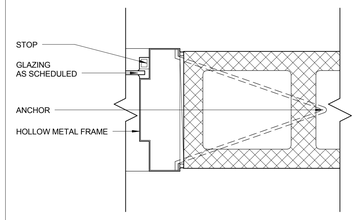
20 Coiling Securtiy Door Section
1" = 1'-0"



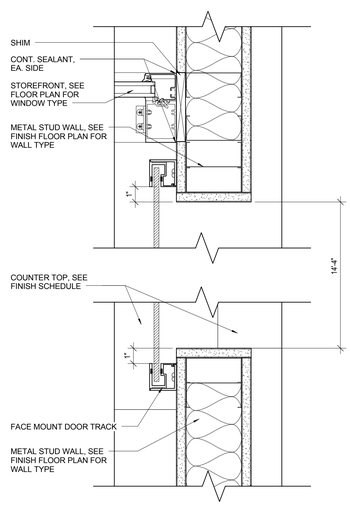
12 HM - Sidelite/Door Mullion
3" = 1'-0"



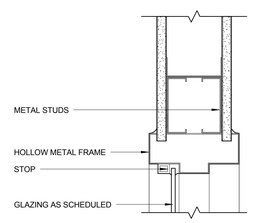
15 SF Jamb @ Tilt Up Wall
3" = 1'-0"



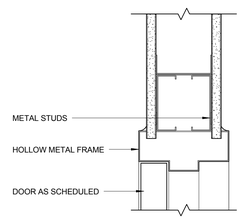
3 HM - Window/Sidelite Jamb @ CMU
3" = 1'-0"



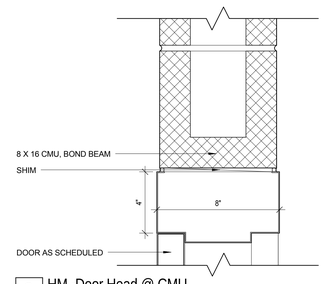
13 Coiling Door Jamb
3" = 1'-0"



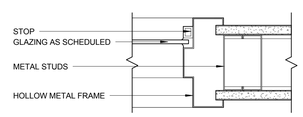
11 HM - Window/Sidelite Head @ Gyp. Board
3" = 1'-0"



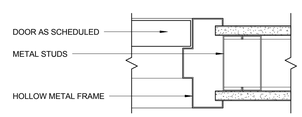
7 HM - Door 2in Head
3" = 1'-0"



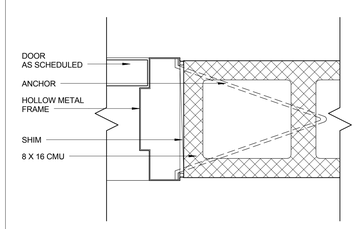
2 HM -Door Head @ CMU
3" = 1'-0"



10 HM - Window/Sidelite Jamb/Sill @ Gyp. Board
3" = 1'-0"



6 HM - Door Jamb @ Gyp. Board
3" = 1'-0"



1 HM - Door Jamb @ CMU
3" = 1'-0"

LICENSED ARCHITECT
6710870
JOSEPH FLINT SMITH
STATE OF UTAH
01.20.12

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project:
TOOELE APPLIED
TECHNOLOGY
COLLEGE -
NEW BUILDING

88 South Tooele Blvd
Tooele, UT 84074

DFCM PROJECT #11064280

project#: 11.0420
date: 1/20/2012

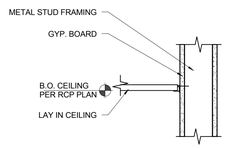
revisions :

Details

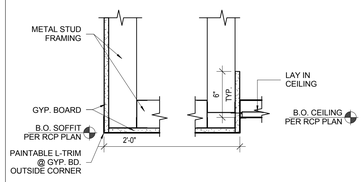
sheet:

AE801

100% Construction Documents



26 CEILING DETAIL @ INT WALL & LAYIN CEILING
1 1/2" = 1'-0"



21 CEILING DETAIL
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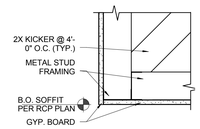

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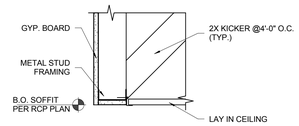
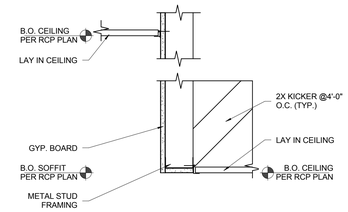


11 CEILING DETAIL
1 1/2" = 1'-0"



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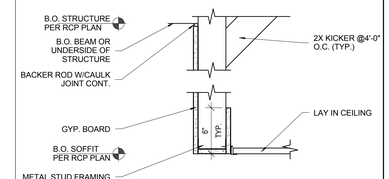
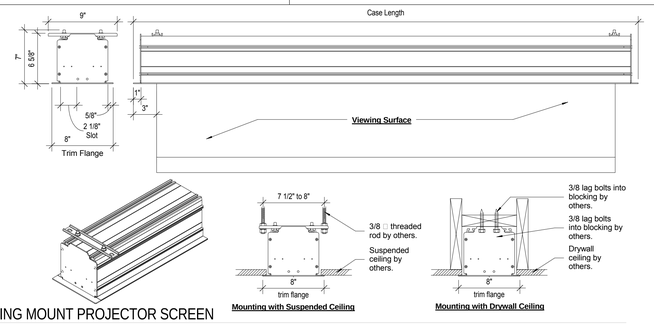
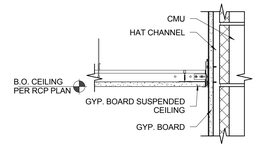
1 1/2" = 1'-0"



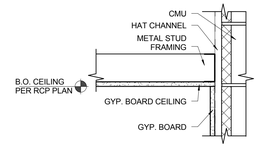
1 CEILING DETAIL
1 1/2" = 1'-0"



27 CEILING MOUNT PROJECTOR SCREEN
1 1/2" = 1'-0"



17 CEILING DETAIL #31
1 1/2" = 1'-0"



12 CEILING DETAIL #30
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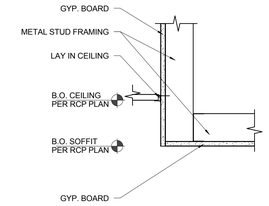
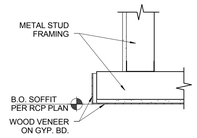


7 CEILING DETAIL
1 1/2" = 1'-0"



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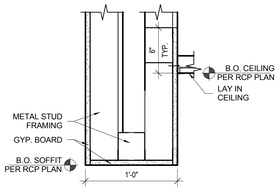

28 CEILING DETAIL
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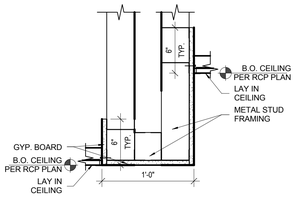

23 CEILING DETAIL
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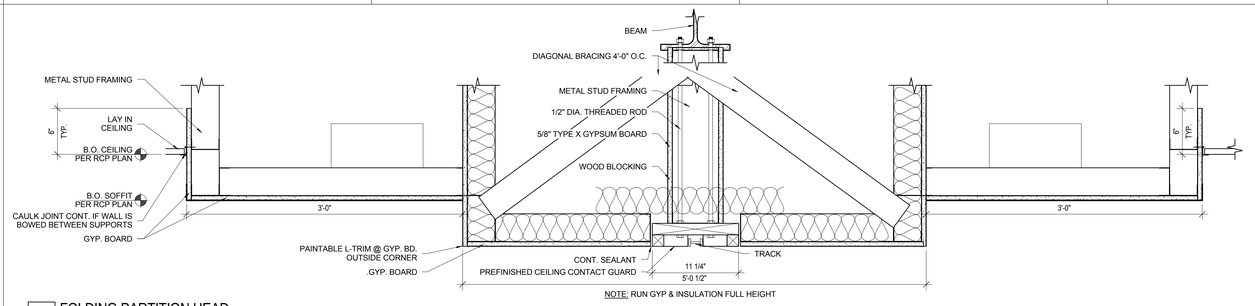

18 FOLDING PARTITION HEAD
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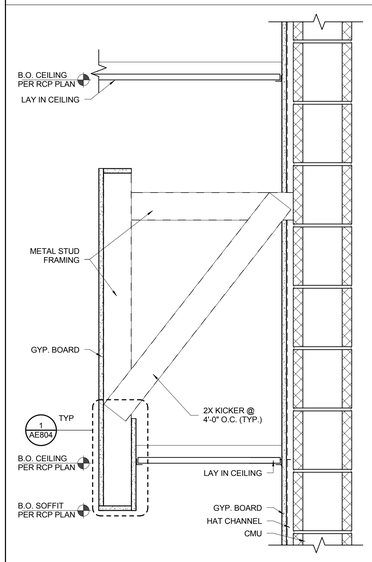
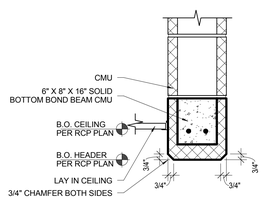
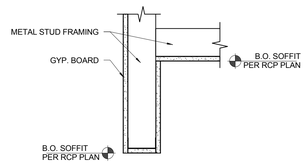


30 DROP CEILING DETAIL
1 1/2" = 1'-0"



24 CMU HEADER
1 1/2" = 1'-0"



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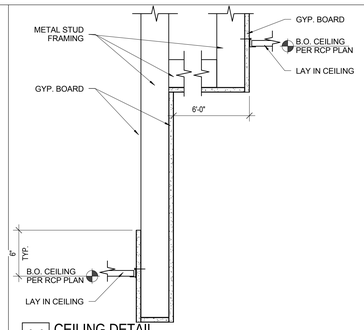

14 CEILING DETAIL
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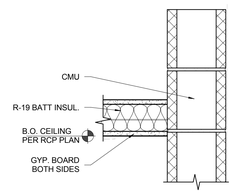

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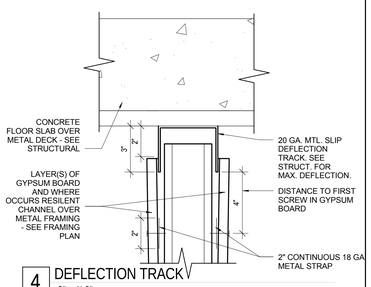

4 DEFLECTION TRACK
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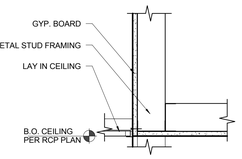

25 CEILING DETAIL
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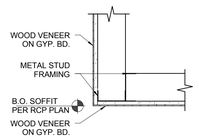

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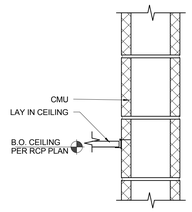

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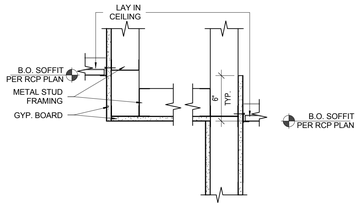

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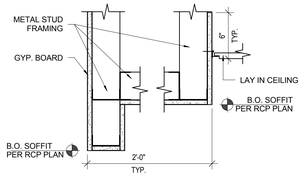

5 CEILING DETAIL
1 1/2" = 1'-0"

LICENSED ARCHITECT 6710870 JOSEPH FLINT SMITH STATE OF UTAH
01.20.12

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project:
TOOELE APPLIED TECHNOLOGY COLLEGE - NEW BUILDING

88 South Tooele Blvd
Tooele, UT 84074

DFCM PROJECT #11064280

project#: 11.0420
date: 1/20/2012

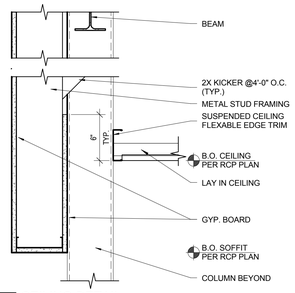
revisions :

Ceiling Details

sheet:

AE804

100% Construction Documents



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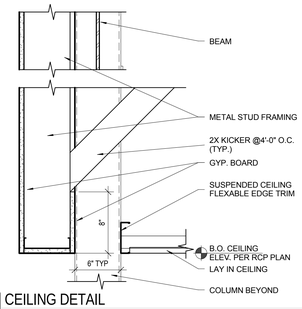

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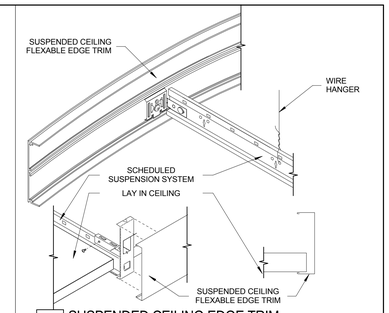

1 SUSPENDED CEILING EDGE TRIM
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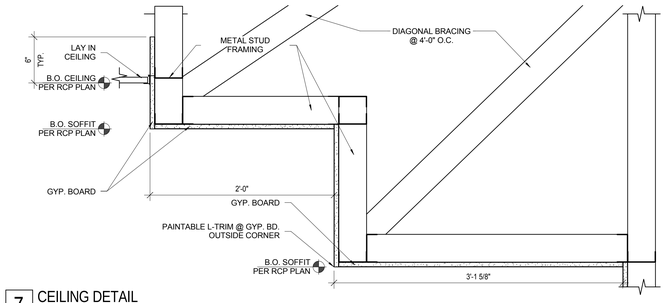
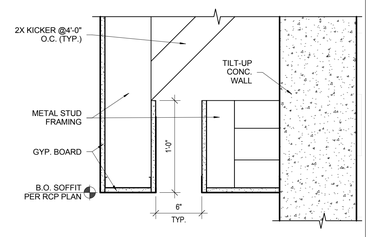
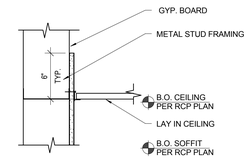


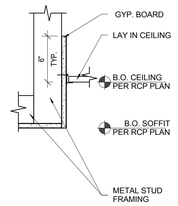
7 CEILING DETAIL
1 1/2" = 1'-0"



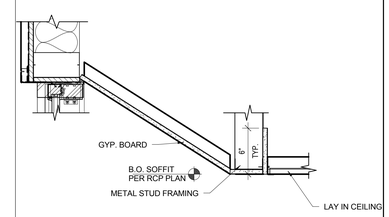
8 CEILING DETAIL
1 1/2" = 1'-0"



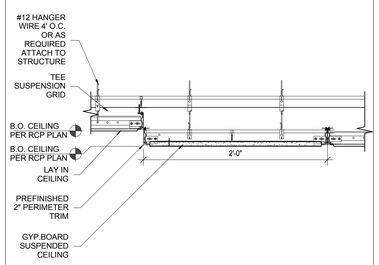
3 CEILING DETAIL
1 1/2" = 1'-0"



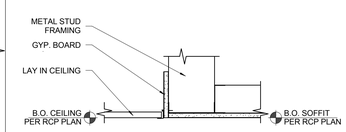
9 CEILING DETAIL
1 1/2" = 1'-0"



4 CEILING DETAIL
1 1/2" = 1'-0"



10 CEILING DETAIL
1 1/2" = 1'-0"



5 CEILING DETAIL
1 1/2" = 1'-0"

LICENSED ARCHITECT
6710870
JOSEPH FLINT SMITH
STATE OF UTAH
01.20.12

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project:
TOOELE APPLIED TECHNOLOGY COLLEGE - NEW BUILDING

88 South Tooele Blvd
Tooele, UT 84074

DFCM PROJECT #11064280

project#: 11.0420
date: 1/20/2012

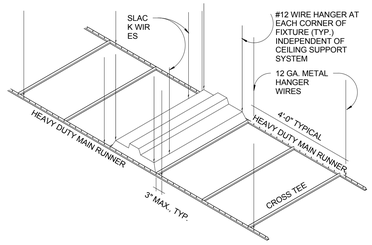
revisions :

Ceiling Details

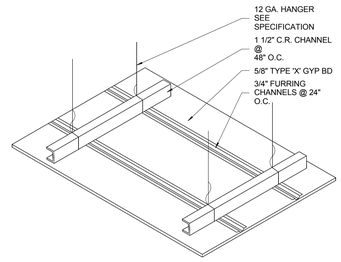
sheet:

AE805

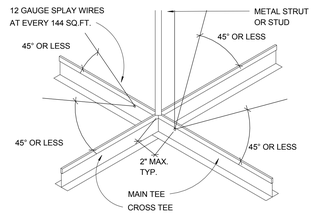
100% Construction Documents



6 TYP FIXTURE SUPPORT ISO
1/64" = 1'-0"



7 SUSP. CEILING CHANNELS
3" = 1'-0"



NOTE 1- ALL SPLAY WIRES TO BE IN LINE WITH ATTACHED COMPONENT

NOTE 2- ALL SPLAY WIRES TO BE TAUT AND TIED BOTH ENDS WITH MINIMUM OF THREE TURNS IN 1" OF RUN.

NOTE 3- COMPLY WITH IBC 2009

NOTE 4- SPLAY WIRES SHALL ATTACH TO STRUCTURAL GIRDER OR JOIST ONLY, DO NOT ATTACH TO ROOF DECK.

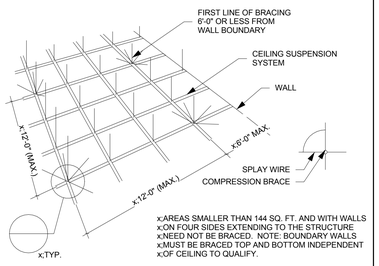
NOTE 5- METAL STRUT FASTENED TO THE MAIN RUNNER SHALL BE EXTENDED TO AND FASTENED TO THE STRUCTURAL MEMBERS SUPPORTING THE ROOF OR FLOOR ABOVE. THE STRUT SHALL BE ADEQUATE TO RESIST THE VERTICAL COMPONENT INDUCED BY THE BRACING WIRES.

NOTE 6- ALL LIGHT FIXTURES SHALL BE POSITIVELY ATTACHED TO THE SUSPENDED CEILING SYSTEM. WHEN INTERMEDIATE SYSTEMS ARE USED, ATTACH NO. 12 GAGE HANGERS TO THE GRID MEMBERS WITHIN 3" OF EACH CORNER OF EACH FIXTURE. LIGHT FIXTURES WEIGHING LESS THAN 56 LBS. SHALL HAVE TWO NO. 12 GAGE HANGERS CONNECTED FROM THE FIXTURE HOUSING TO THE STRUCTURE ABOVE. COMPLY WITH IBC 2009

NOTE 7- ALL LIGHT FIXTURES SHALL BE POSITIVELY ATTACHED 20 LBS. SHALL BE POSITIVELY ATTACHED TO THE CEILING SUSPENSION MAIN RUNNERS. TERMINALS OR SERVICES WEIGHING 20 LBS., BUT NOT MORE THAT 56 LBS., SHALL IN ADDITION HAVE TWO NO. 12 GAGE HANGERS CONNECTED TO THE CEILING SYSTEM HANGERS OR TO THE STRUCTURE ABOVE. TERMINALS OR SERVICES WEIGHING MORE THAN 56 LBS. SHALL BE SUPPORTED DIRECTLY FROM THE STRUCTURE ABOVE BY APPROVED HANGERS. COMPLY WITH IBC 2009

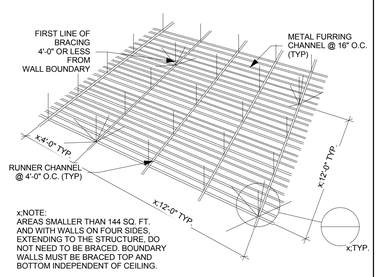
NOTE 8- ALL GRID SYSTEM IN SEICMIC ZONE D OR GREATER ARE REQUIRED TO BE HEAVY DUTY. REFER REQUIREMENTS TO ASCE 7REQUIREMENTS.

2 TYP. SEISMIC BRACING DETAIL
1 1/2" = 1'-0"



x:AREAS SMALLER THAN 144 SQ. FT. AND WITH WALLS
x:ON FOUR SIDES EXTENDING TO THE STRUCTURE
x:NEED NOT BE BRACED. NOTE: BOUNDARY WALLS
x:MUST BE BRACED TOP AND BOTTOM INDEPENDENT
x:OF CEILING TO QUALIFY.

3 SEISMIC BRACING DETAIL
12" = 1'-0"

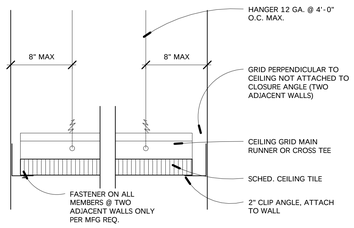


x:NOTE:
AREAS SMALLER THAN 144 SQ. FT. AND WITH WALLS ON FOUR SIDES, EXTENDING TO THE STRUCTURE, DO NOT NEED TO BE BRACED. BOUNDARY WALLS MUST BE BRACED TOP AND BOTTOM INDEPENDENT OF CEILING.

4 SEISMIC BRACING DETAIL 2
12" = 1'-0"

NOTE 1 - ALL HANGER WIRES TO BE IN LINE WITH ATTACHED COMPONENT OR SHALL BE COUNTERSLOPED NOT GREATER THAN 1/6

NOTE 2 - ALL HANGER WIRES TO BE TAUT AND TIED BOTH ENDS W/ MIN. OF 4 TURNS IN 1" OF RUN.



5 TYP. CEILING DETAIL - CLIP ANGLE
1 1/2" = 1'-0"

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METHOD
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project:
TOOELE APPLIED TECHNOLOGY COLLEGE - NEW BUILDING

88 South Tooele Blvd
Tooele, UT 84074

DFCM PROJECT #11064280

project#: 11.0420
date: 1/20/2012

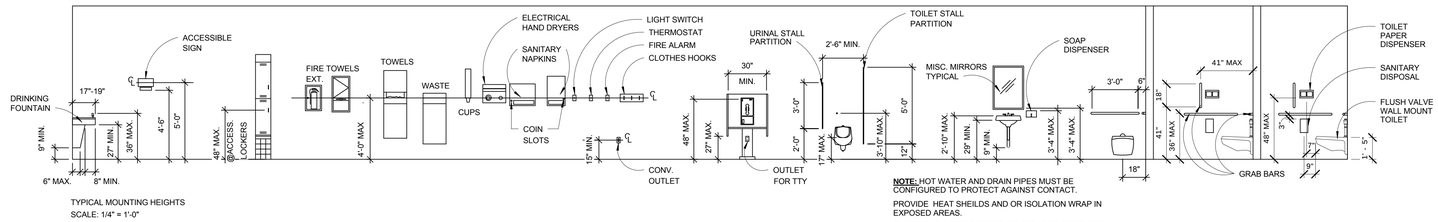
revisions :

Ceiling Details

sheet:

AE806

100% Construction Documents



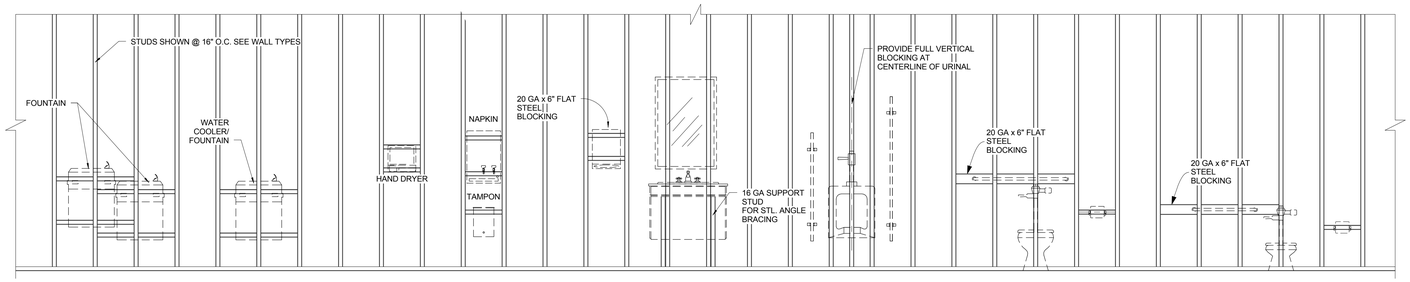
TYPICAL MOUNTING HEIGHTS
SCALE: 1/4" = 1'-0"

NOTE: HOT WATER AND DRAIN PIPES MUST BE CONFIGURED TO PROTECT AGAINST CONTACT.

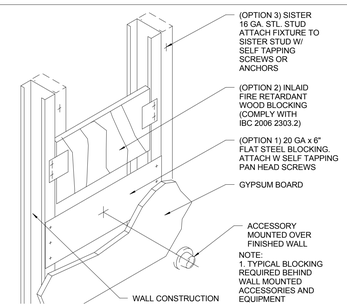
PROVIDE HEAT SHEILDS AND OR ISOLATION WRAP IN EXPOSED AREAS.

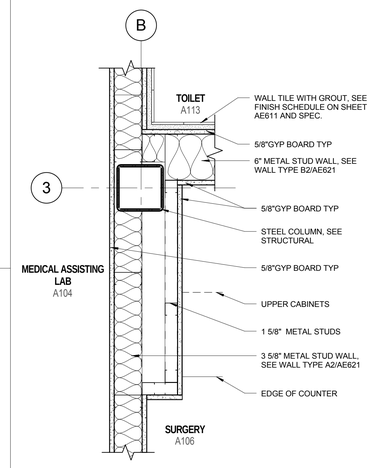
THERE SHALL BE NO SHARP OR ABRASIVE SURFACES UNDER LAVATORIES.

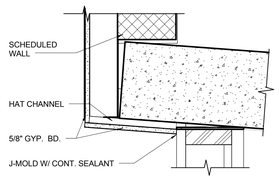
16 Typical Mounting Heights
1/4" = 1'-0"



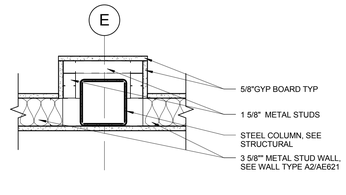
27 BLOCKING DETAILS
1 1/2" = 1'-0"



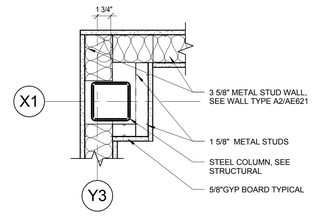




18 Floor Plan Detail
1 1/2" = 1'-0"

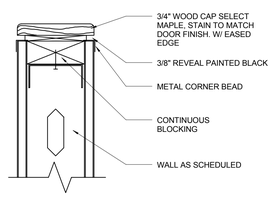


13 Enlarged Column Detail
1 1/2" = 1'-0"

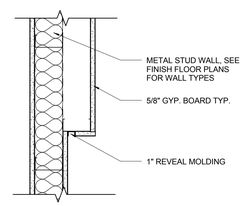


8 Enlarged Column Detail
1 1/2" = 1'-0"

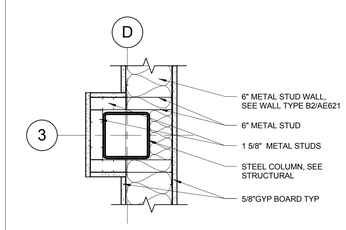
3 Enlarged Column Detail
1 1/2" = 1'-0"



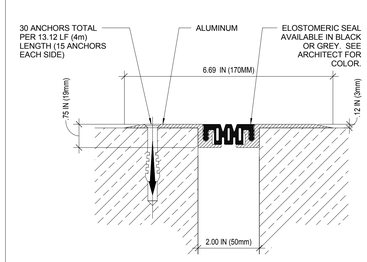
14 WOOD CAP DETAIL
3" = 1'-0"



9 Enlarged Wall Reveal Detail
1 1/2" = 1'-0"



4 Enlarged Column Detail
1 1/2" = 1'-0"



10 EXPANSION JOINT COVER DETAIL
6" = 1'-0"

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JOSEPH FLINT SMITH
STATE OF UTAH
01.20.12

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project:
TOOELE APPLIED TECHNOLOGY COLLEGE - NEW BUILDING

88 South Tooele Blvd
Tooele, UT 84074

DFCM PROJECT #11064280

project#: 11.0420
date: 1/20/2012

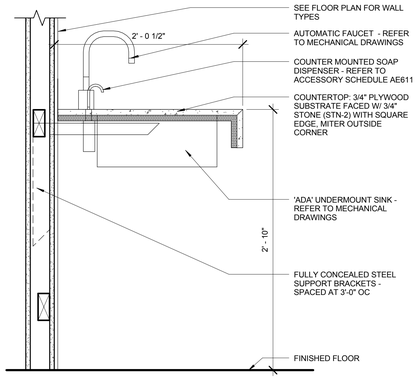
revisions :

Interior Details

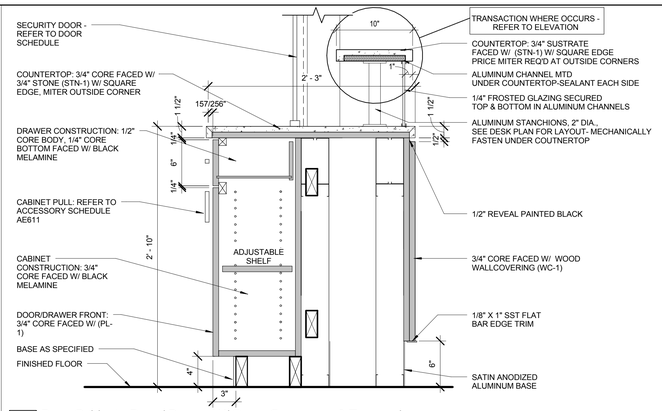
sheet:

AE901

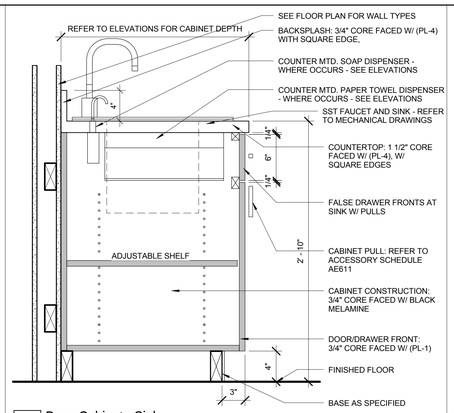
100% Construction Documents



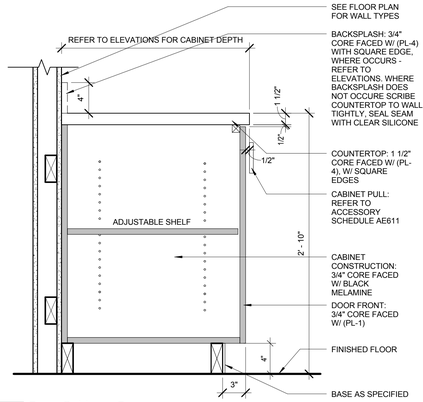
13 Countertop - Stone W/ Sink
1 1/2" = 1'-0"



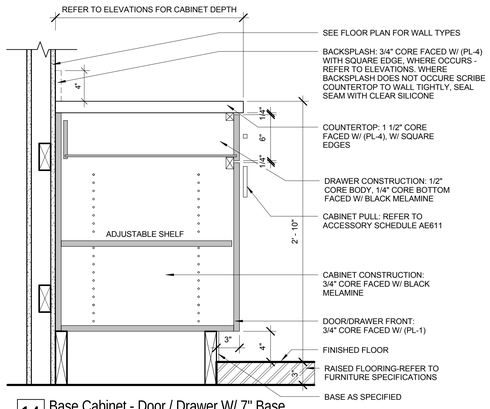
9 Base Cabinet - Door / Drawer W/ Stone Countertop & Transaction
1 1/2" = 1'-0"



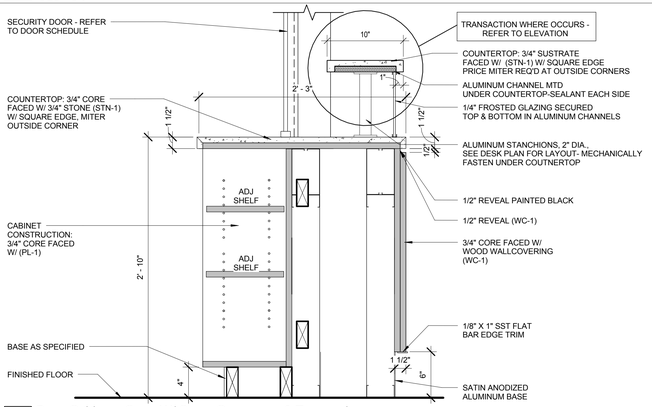
5 Base Cabinet - Sink
1 1/2" = 1'-0"



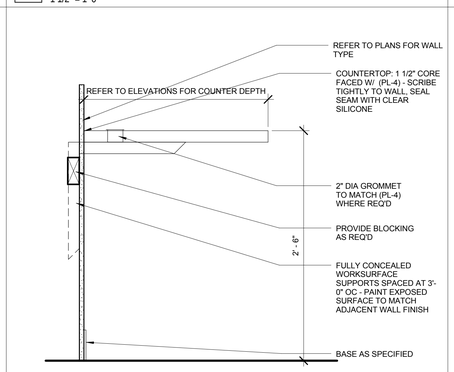
1 Base Cabinet - Door
1 1/2" = 1'-0"



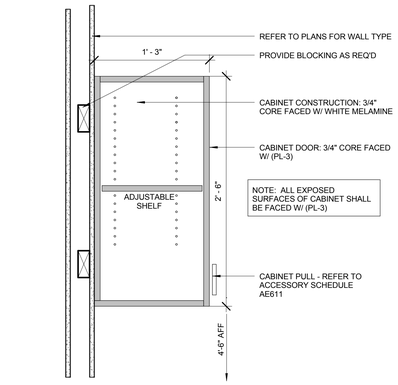
14 Base Cabinet - Door / Drawer W/ 7" Base
1 1/2" = 1'-0"



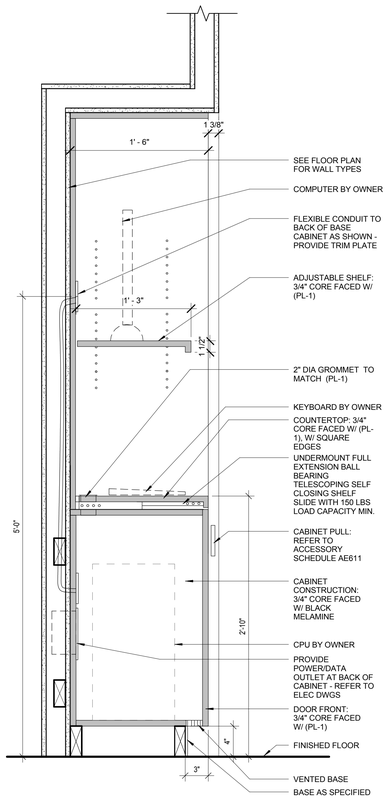
10 Base Cabinet - Open W/ Stone Countertop & Transaction
1 1/2" = 1'-0"



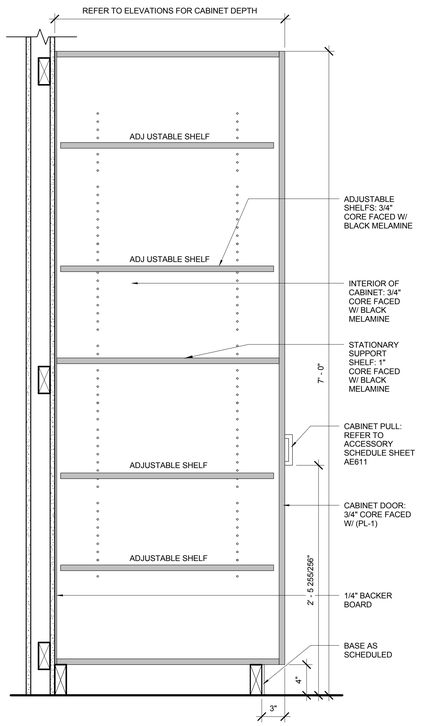
6 Countertop - Concealed Supports
1 1/2" = 1'-0"



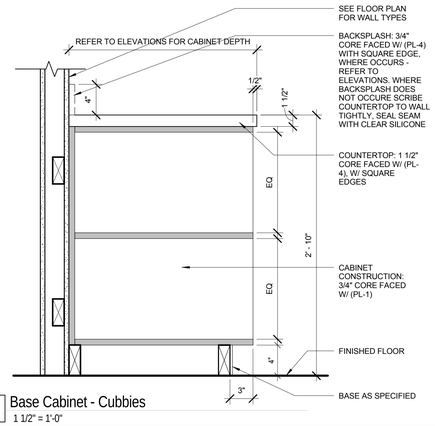
2 Upper Cabinet - 30" H W/ Adj. Shelf
1 1/2" = 1'-0"



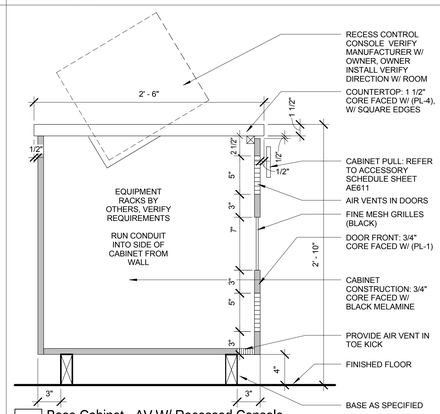
16 Tall Cabinet - Computer Station - Recessed
1 1/2" = 1'-0"



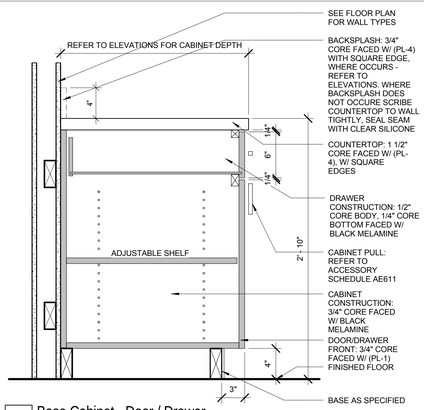
15 Tall Cabinet - Door W/ Adj. Shelves
1 1/2" = 1'-0"



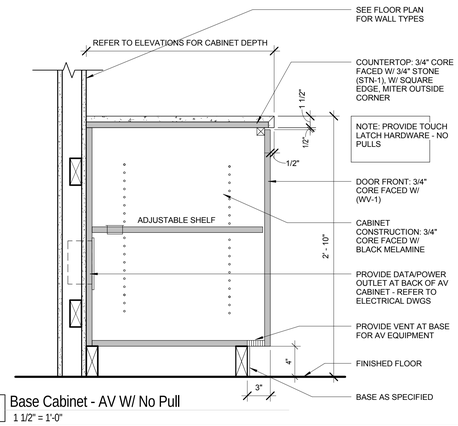
11 Base Cabinet - Cubbies
1 1/2" = 1'-0"



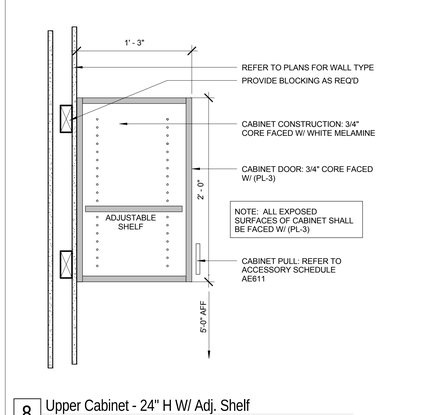
7 Base Cabinet - AV W/ Recessed Console
1 1/2" = 1'-0"



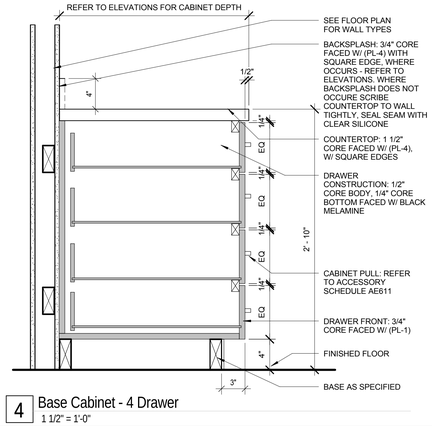
3 Base Cabinet - Door / Drawer
1 1/2" = 1'-0"



12 Base Cabinet - AV W/ No Pull
1 1/2" = 1'-0"



8 Upper Cabinet - 24" H W/ Adj. Shelf
1 1/2" = 1'-0"



4 Base Cabinet - 4 Drawer
1 1/2" = 1'-0"

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01.20.12

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date: 1/20/2012

revisions :

Casework Details

sheet:

AE910

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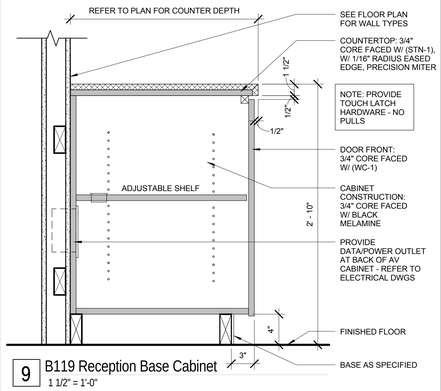
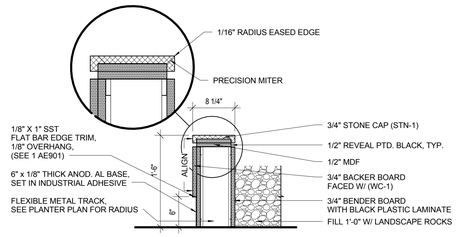
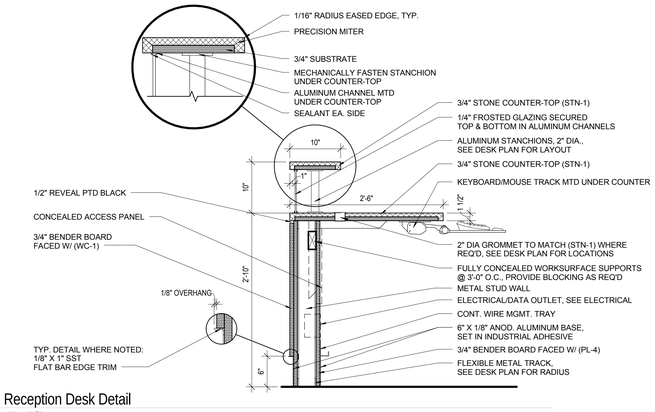


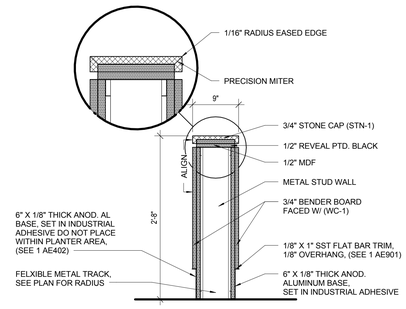
9 B119 Reception Base Cabinet
1 1/2" = 1'-0"



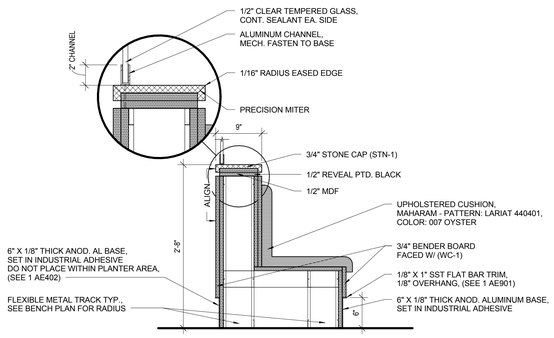
5 Planter Wall, Typ.
1" = 1'-0"



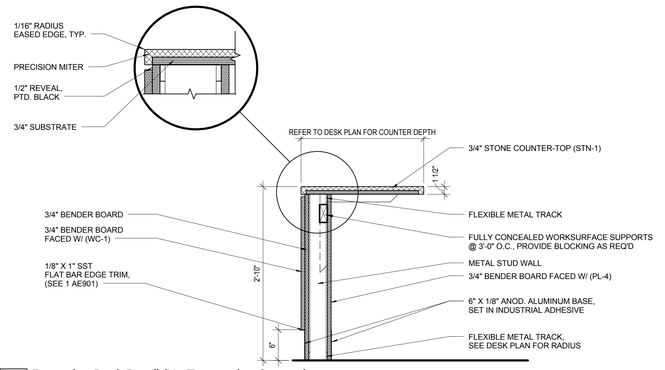
1 Reception Desk Detail
1" = 1'-0"



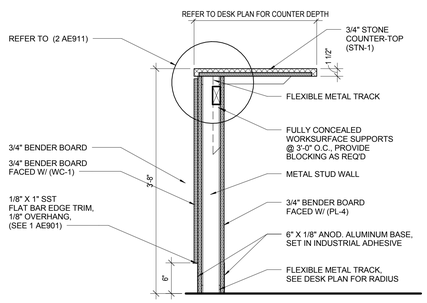
10 Lounge Wall
1" = 1'-0"



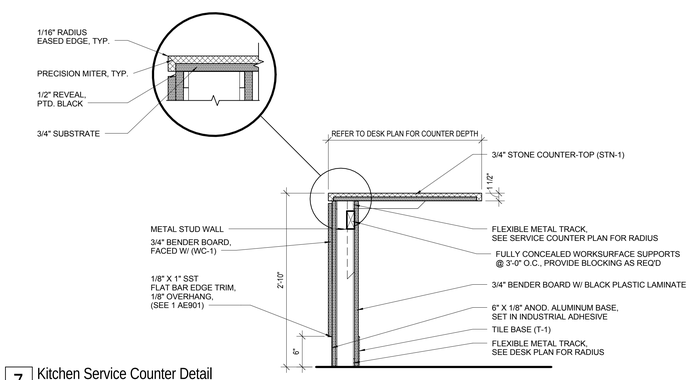
6 Lounge Bench
1" = 1'-0"



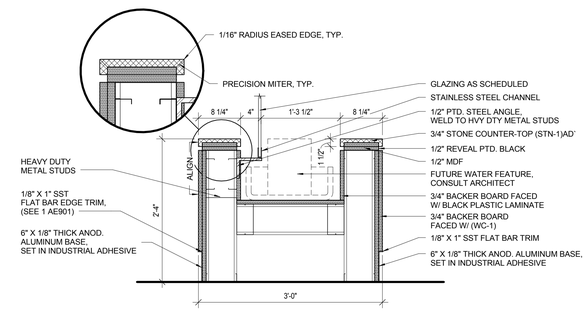
2 Reception Desk Detail (No Transaction Counter)
1" = 1'-0"



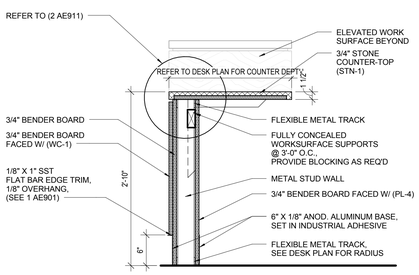
11 Bookstore Service Counter Detail 1
1" = 1'-0"



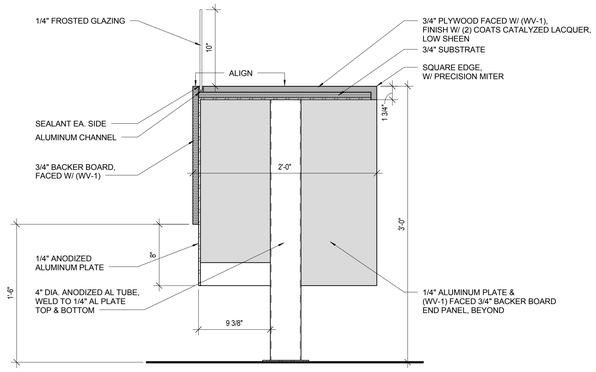
7 Kitchen Service Counter Detail
1" = 1'-0"



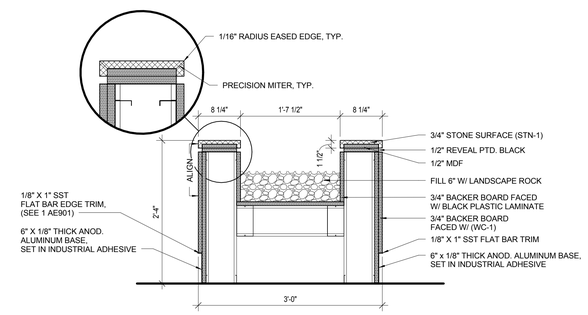
3 Water Feature
1" = 1'-0"



12 Bookstore Service Counter Detail 2
1" = 1'-0"



8 Cafeteria Bar Detail
1 1/2" = 1'-0"



4 Large Planter Detail
1" = 1'-0"

LICENSED ARCHITECT
6710870
JOSEPH FLINT SMITH
STATE OF UTAH
01.20.12

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METHOD STUDIO INC.
925 south west temple
salt lake city, utah 84101
phone:(801) 532-4422

consultants:

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project:
TOOELE APPLIED TECHNOLOGY COLLEGE - NEW BUILDING

88 South Tooele Blvd
Tooele, UT 84074

DFCM PROJECT #11064280

project#: 11.0420
date: 1/20/2012

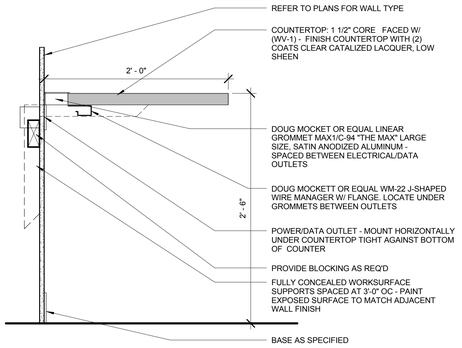
revisions:

Casework Details

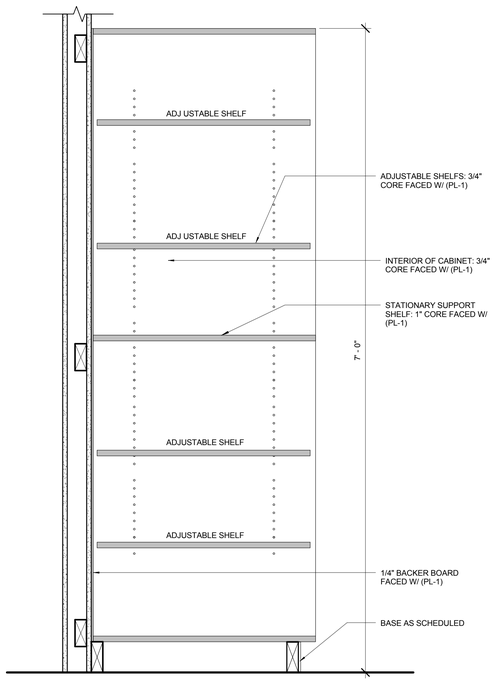
sheet:

AE911

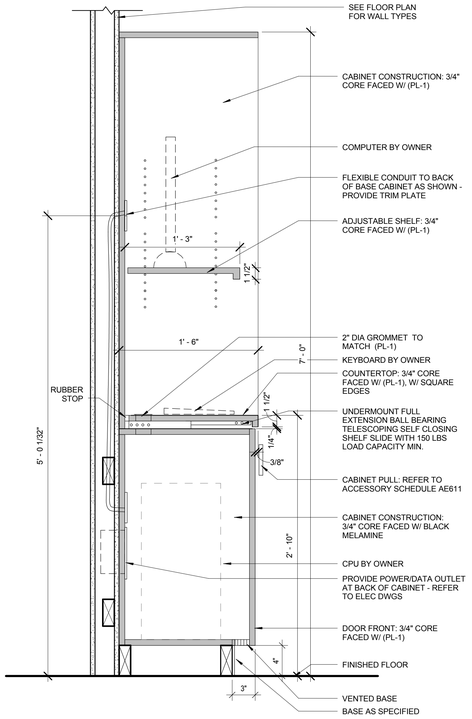
100% Construction Documents



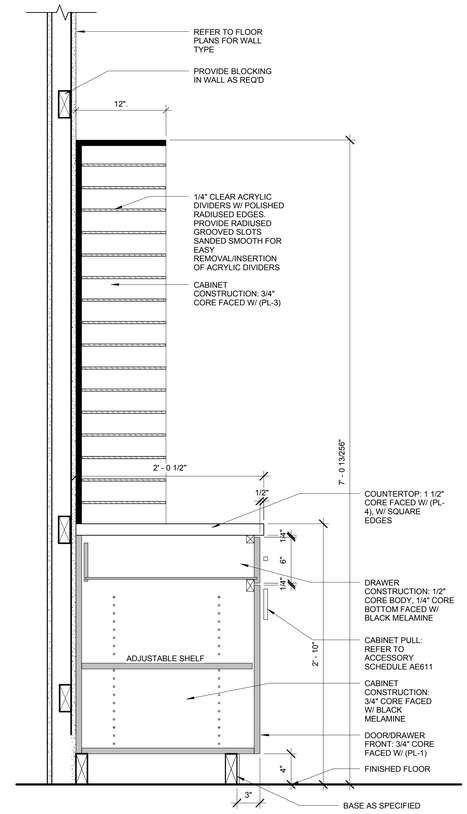
7 Countertop - Computer
1 1/2" = 1'-0"



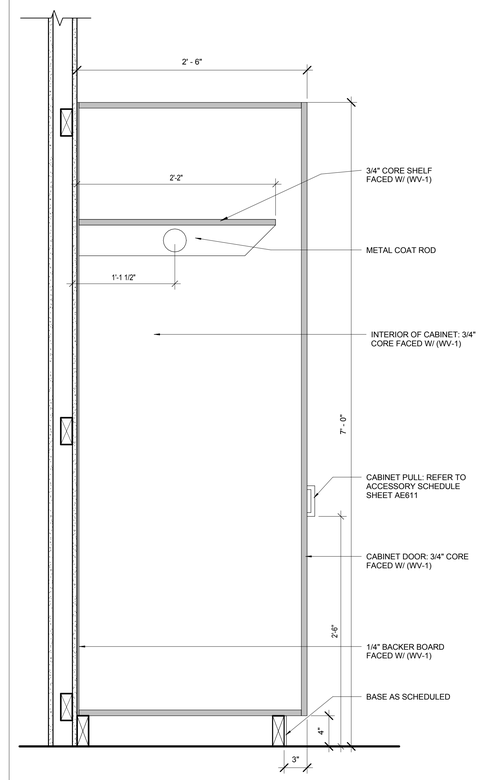
8 Tall Cabinet - Open W/ Adj. Shelves
1 1/2" = 1'-0"



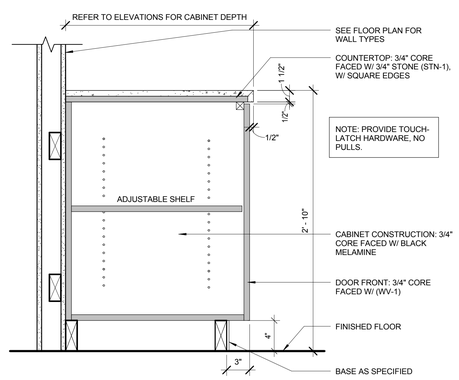
5 Tall Cabinet - Computer Station - Non Recessed
1 1/2" = 1'-0"



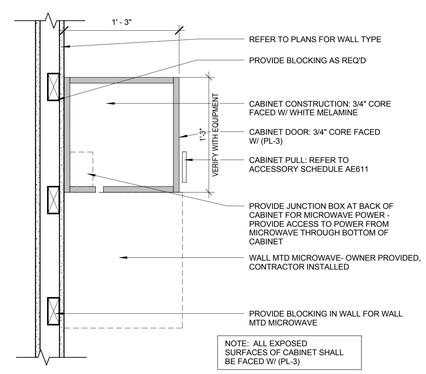
3 Base Cabinet W/ Mail Slots
1 1/2" = 1'-0"



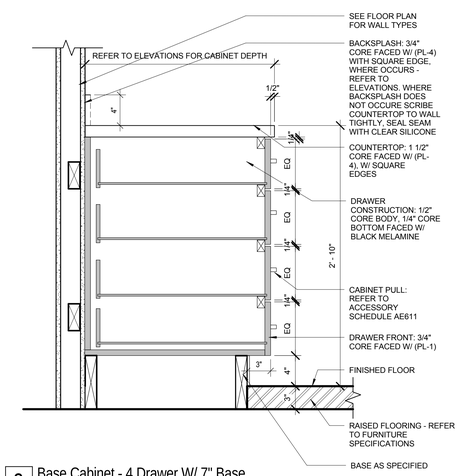
1 Tall Cabinet - Coat
1 1/2" = 1'-0"



6 Base Cabinet - Door W/ No Pull
1 1/2" = 1'-0"



4 Upper Cabinet - Built-In Microwave
1 1/2" = 1'-0"



2 Base Cabinet - 4 Drawer W/ 7" Base
1 1/2" = 1'-0"

LICENSED ARCHITECT
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01.20.12

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Casework Details

sheet:

AE912

100% Construction Documents

1. Design Criteria

1.1. Governing Building Code: 2009 International Building Code (IBC)

1.2. Floor Live Loading:
- A. Classrooms & Office: ....40 psf Live Load + 15 psf Partition Load
- B. Exit Facilities & Corridors: ....100 psf Live Load
- C. Mechanical Rooms: ....125 psf Live Load or actual weights, if larger
- D. Mezzanine: ....100 psf Live Load

1.3. Roof Live Loading:
- A. Roof Live Load: ....20 psf
- B. Roof Snow Load: ....39 psf + Drift per IBC
  1. Ground Snow Load, P_g: ....51 psf
  2. Snow Exposure Factor, C_e: 1.0
  3. Importance Factor, I_S: 1.1
  4. Thermal Factor, C_t: 1.0

1.4. Earthquake:
- A. Occupancy Category: III
- B. Seismic Design Category..D
- C. Spectral Response Accelerations:
  S_S = 0.751 g S_{DS} = 0.601 g
  S_1 = 0.278 g S_{D1} = 0.342 g
- D. Soil Site Class: ....D
  F_a = 1.199 F_v = 1.843
- E. Basic Seismic-Force-Resisting System: ....Special Reinforced Concrete Shear Walls
  ....Special Concentric Braced Frames
  ....Special Reinforced Masonry Shear Walls
  R = 5 C_d = 5 Ω_0 = 2 ½
- F. Importance Factor, I_E: 1.25
- G. Design Base Shear: ....1020 kips
- H. Calculated Inelastic Story Drift, Δ:............................0.48 in
- I. Analysis Procedure: ....Equivalent Lateral Force (Static)

1.5. Wind:
- A. Basic Wind Speed (3-second gust): ....90 mph
- B. Importance Factor, I_W: 1.15
- C. Exposure: C
- D. Internal Pressure Coefficient, GC_{pi}: 0.18
- E. Topographic Factor, K_{ht}: 1.0
- F. Components and Cladding Design Pressure:

Design Wind Pressure (psf)

Location		Tributary Area (ft^2)			
		< 10	50	100	> 500
Walls	Within 12.0 ft of building corner	33.3	28.1	25.9	20.7
	All other areas	27	24.4	23.3	20.7
Roof	Within 12.0 ft of building corner	62.9	37.8	27.0	27.0
	Within 12.0 ft of building edge	41.8	31.5	27.0	27
	All other areas	24.9	23.5	22.8	22.8

1.6. Foundation:
- A. Subsurface Conditions:
  Soils report and log of borings was obtained by the Owner for the Engineer's use in the design of the foundation, and is not a part of the Contract Documents. This report and log of borings is available for the Contractor's information, but is not a warranty of the subsurface conditions. The Contractor may use the report at his own risk.
- B. Soils Report by Raba-Kistner Infrastructure, Inc., dated September 19, 2011.
- C. Soil Bearing Pressure: ....2500 psf minimum
- D. Lateral Soil Pressure Fluid Equivalent Density.
  1. Active: ....43 pcf (retaining walls)
  2. At Rest: ....65 pcf (rigid foundation walls)
  3. Passive: ....390 pcf
  4. Increase for Seismic: ....35 pcf
- E. Coefficient of Friction: 0.38

1.7. Classification for Fire Rated Construction:
- A. For the purpose of determining fire-resistive assemblies, open-web steel framing members shall be considered unrestrained. All other steel floor and roof framing members shall be considered restrained.
- B. Diagonal members in vertical braced frames shall be considered as secondary members for fire proofing protection

2. Earthwork

2.1. Clearing: The entire building area shall be scraped to remove the top 6 inches of soil, including all vegetation and debris.

2.2. Proof rolling: The natural undisturbed soil below all footings shall be proof rolled prior to placing concrete. Remove all soft spots and replace with compacted structural fill.

2.3. Compacted structural fill: All fill material shall be a well-graded granular material with a maximum size less than 4 inches and with not more than 10 percent passing a No. 200 sieve. It shall be compacted to 98 percent of the maximum laboratory density as determined by ASTM D1557. All fill shall be tested (See Specifications and the Quality Assurance section of the GSN).

3. Concrete

3.1. Materials shall comply with the Standards specified in American Concrete Institute (ACI) 318-08, "Building Code Requirements for Structural Concrete."
- A. Concrete mix design requirements shall be as follows:

Location	f'c at 28 days (psi)	Max W/C Ratio	Air Content (%)	Max Aggregate Size	Exposure Classes*		
					F	S	C
Footings	4500	0.45	4.5	1"	F1	S0	C1
Interior Slabs on Grade	3000	0.45	-	1"	F0	S0	C0
Exterior Walls	4500	0.45	5	¾"	F1	S0	C1
Walls	4000	0.45	-	¾"	F0	S0	C0
Tilt-Up Wall Panels	4500	0.45	5	¾"	F1	S0	C1
Normal Weight Concrete over Steel Deck	3000	0.45	-	¾"	F0	S0	C0
All other site cast concrete	4500	0.45	4.5	1"	F1	S0	C1

* Exposure Classes are per ACI 318, Section 4.2.1, where F, S and C are exposure categories for freezing and thawing, sulfate, and corrosion protection of reinforcement, respectively.

- B. Cementitious Materials:
  1. Portland Cement (ASTM C150):
     - a. Type I or II for exposure class S0.
     - b. Type II or V for exposure class S1.
     - c. Type V for exposure class S2 and S3.
  2. Fly Ash (ASTM C618, Class C or F): maximum fly ash content as a percentage of total weight of cementitious materials shall be 25 percent.
- C. Concrete Density (Maximum Air Dry Weight):
  1. Normal weight concrete shall be approximately 145 to 155 pounds per cubic foot. Aggregate shall be ASTM C33.
- D. Reinforcement steel:
  1. ASTM A615 Grade 60, fy = 60,000 psi min. unless noted otherwise.
  2. Reinforcement at concrete moment frames and shear wall jambs shall be ASTM A706 or ASTM A615 Grade 60, with the following properties:
     - a. Actual yield strength based on mill tests shall not exceed 78,000 psi.
     - b. Retest shall not exceed 81,000 psi.
     - c. Ratio of actual ultimate tensile stress to actual yield strength shall not be less than 1.25.
     - d. Mill tests shall be submitted to the Engineer.
- E. Admixtures:
  1. Air-entraining admixtures, comply with ASTM C 260 (when used).
     - a. Tolerance on air content as delivered shall be +/- 1.5%.
     - b. When air content of a trowel finished floor slab exceeds 3%, there is an increased risk for delaminations and blistering to occur. When this situation is present, the contractor shall pay special attention to the finishing procedures to help minimize such risks. Refer to ACI 302.1R-96 "Guide for Concrete Floor and Slab Construction" for proper finishing guidelines.
  2. The use of super plasticizers and water reducers is allowed, but not required.
  3. Calcium chloride or admixtures containing calcium chloride shall not be added to the concrete mix.
- F. Slump Limit: 4 inches, maximum for all concrete prior to the addition of plasticizers and water reducing admixtures. The concrete supplier shall indicate the final slump of each concrete mix in the submitted mix design.
- G. Shrinkage Limit: Interior slabs on grade shall have a drying shrinkage limit of 0.040 percent tested in accordance with ASTM C157. Drying shrinkage test results shall be submitted with mix designs.
- H. Only one grade or type of concrete shall be poured on the site at any given time.

3.2. Formwork shall comply with ACI Standards Publication 347 and the project specifications. The contractor shall be responsible for the design, detailing, care, placement and removal of the formwork and shores.
- A. Pre-camber forms and screeds with a camber of 1/4" per every 10'-0" of span to compensate for dead load deflection, unless noted otherwise. Post tensioned concrete slabs and beams do not require formwork to be pre-cambered.

3.3. Concrete cover requirements for deformed bar reinforcing steel shall comply with ACI 318, "Building Code Requirements for Structural Concrete".
- A. Cast-in-place Concrete: Specified Cover
  1. Cast against and permanently exposed to earth: .... 3"
  2. Formed concrete exposed to earth or weather:
     #6 thru #18 bars .... 2"
     #5 and smaller bars.. 1.1/2"
  3. Concrete not exposed to weather or in contact with ground:
     Slabs, Walls, Joists; #11 bars and smaller .... 3/4"
     Beams, Columns: primary reinforcement, ties, stirrups, spirals............ 1.1/2"
  4. Concrete Tilt-Up Panels:
     #8 and smaller bars.. 1"
     #9 thru #18 bars .... 2"

3.4. Construction Joints and Control Joints:
- A. Provide a surface intentionally roughened to ¼" amplitude in all wall footings. A continuous keyway shall not be used for concrete shear wall to footing connections, unless specifically indicated. Refer to project plans, schedules and details for the shear wall to footing connection requirements.
- B. All horizontal and vertical construction joints shall have a surface intentionally roughened to ¼" amplitude. A continuous 2 X 4 keyway may be used on elements other than shear walls.
- C. Provide reinforcement dowels to match the member reinforcement across the joint, unless noted otherwise. For dowels across construction joints and wall to footing connections of concrete shear walls, refer to specific project plans, schedules, and details.
- D. Construction joints in suspended concrete pours shall be made at the center of spans.
- E. Slabs on grade shall have construction or control joints spaced not to exceed 30 times the slab thickness in any direction.
- F. Control joints shall be installed in slabs on grade so the length to width ratio of the slab is no more than 1.25:1. Control joints shall be completed within 12 hours of concrete placement. See typical details for joint configuration.
- G. Control joints in visually exposed walls, unless noted otherwise: (Joints shall line up with masonry and architectural joints, see drawings.)
  1. Vertical control joints at 10'-0" on center.
  2. Reinforcing shall be continuous through control and construction joints, unless noted otherwise.
  3. Control joints in concrete foundation walls shall line up with masonry control joints.
- H. Control joints shall be installed in suspended slabs over steel decking by saw-cutting along girders and purlins at interior grid lines. See typical details for joint size and reinforcement. Reinforcement required shall be in addition to any slab reinforcement.

3.5. Detailing: All reinforcing, including welded wire fabric, shall be detailed, bolstered & supported to comply with ACI 315, "Details and Detailing of Concrete Reinforcement" and the Concrete Reinforcing Steel Institute (CRSI) recommendations. Reinforcing bars shall not be welded unless specifically shown on drawings.
- A. Lap splice lengths shall be detailed to comply with the CONCRETE REINFORCING BAR DEVELOPMENT AND LAP SPLICE SCHEDULE.
- B. All mechanical splices shall have the capacity to develop at least 1.25fy of the bar in tension or compression. Type 2 couplers have the capacity to develop the full tension capacity of the bar. Type 1 couplers shall not be used in moment frames and shear wall jamb columns. Mechanical splices shall have a current ICC Code Evaluation Report; "Lenton" (ER-3967), "Taper-Lock" (ESR-2481) or "SAS Stressteel" (ESR-1163) tapered threaded rebar splices, "Bar-Lock" (ESR-2495) bolt coupling sleeves or approved equivalent may be used. Mechanical couplers on adjacent bars shall be staggered a minimum of 24" apart along the longitudinal axis of the reinforcing bars.
- C. All embedded elements and dowels shall be securely tied to formwork or to adjacent reinforcing prior to the placement of concrete.
- D. Use chairs or other support devices recommended by CRSI to support and tie reinforcement bars and welded wire fabric prior to placing concrete. Welded wire fabric shall be continuously supported at 36" o.c. maximum.
- E. See typical details for reinforcing at wall intersections and ends, reinforcing around wall openings and suspended slab openings, vertical wall dowels, concrete column ties and splices in vertical column reinforcing.
- F. See typical details for column cross-ties. The 90-degree hooks of two successive crossties engaging the same longitudinal bars shall be alternated end for end.
- G. Contractor shall coordinate placement of all openings, curbs, dowels, sleeves, conduits, bolts, inserts and other embedded items prior to concrete placement.
- H. All reinforcement shall be bent cold, and shall be bent only once at the same location. All reinforcement shall be shop bent, unless otherwise permitted by the engineer.

3.6. Minimum Reinforcing: Wall reinforcing shall be as follows, unless noted otherwise:

Wall Thickness	Horizontal Reinforcing	Vertical Reinforcing
6"	#4 @ 13" o.c.	#4 @ 18" o.c.
8"	#5 @ 15" o.c.	#4 @ 16" o.c.
10"	#5 @ 12" o.c.	#4 @ 13" o.c.
12"	#4 @ 13" o.c. Each Face	#4 @ 18" o.c. Each Face
Others	0.25% of Wall Area	0.15% of Wall Area

Spacing shall exceed neither three times the wall thickness nor 18". In addition to the above reinforcing, 2 - #5 x continuous horizontal bars shall be placed at the bottom of the wall (near the footing) and at each floor level, at the roof level and at the top of wall.

3.7. No aluminum conduit or product containing aluminum or any other material injurious to concrete shall be embedded in concrete.

3.8. Unless otherwise noted, all slabs on grade shall be 4" thick.

3.9. Concrete Tilt-Up Wall Panels:
- A. All panels shall have the uniform thickness shown on the panel elevations (see Architectural drawings) and schedules (see Structural drawings) except for architectural features shown or where detailed otherwise. Refer to the CONCRETE TILT UP PANEL REINFORCING SCHEDULE and the CONCRETE TILT UP PANEL OPENING REINFORCING SCHEDULE shown on the schedule sheet(s) for specific reinforcing required. Panels shall also have additional reinforcing as noted in the structural details.
- B. The location and placement of panel lifting inserts shall be the responsibility of the contractor. The contractor shall also furnish and install any additional reinforcing required for lifting and placing the panels.
- C. The contractor shall be responsible for locating and placing all bolts and inserts for angles, ledgers, plates, or any other bolted connections, as well as cast-in-plates and connector for welded connections. Verify dimensions.
- D. The contractor shall provide openings, sleeves, and inserts for plumbing mechanical and electrical pipes, ducts, conduits, and miscellaneous items and for other trades as may be necessary. Breaking holes in or through panels will not be permitted.
- E. Provide one reinforcing bar of the scheduled size, or 1 - #5 minimum, at the perimeter of all panels.
- F. For wall openings 8" to 36" wide, refer to GSN 3.5.E. For wall openings 36" wide and wider, shall be reinforced per the CONCRETE TILT UP PANEL OPENING REINFORCING SCHEDULE.
- G. All wall panels shall be temporarily supported horizontally and vertically with the necessary shoring and bracing which, during erection, shall not be removed until all structural members, including the roof deck, are secured.
- H. See architectural floor plans and elevations for the locations of all doors and other openings. Verify all dimensions.
- I. See the architectural elevations for the finish conditions of the individual concrete panels and locations of recessed feature strips. Maintain concrete cover for reinforcing at any recessed feature.
- J. For tilt panel walls with single curtain of wall reinforcing, the centerline of the vertical reinforcing shall be located at the center of the wall, except where architectural horizontal tooled joints, form liners, and/or recesses occur. Then, the centerline of the vertical reinforcing shall be centered between the tooled joint, form liners and/or recess and the opposite face of the tilt-up wall panel, u.n.o. See details.

4. Masonry

4.1. Materials, unless noted otherwise:
- A. Concrete Masonry Units: ASTM C 90, Lightweight.
- B. Solid Clay Units: ASTM C216, Grade SW.
- C. Material Strength: The Prism Test Method or the Unit Strength Method according to IBC Section 2105.2 may be used to determine the compressive strength of masonry assemblies. The contractor shall select the desired method and meet the required material strengths as follows:
  1. Prism Test Method, IBC 2105.2.2.1:
     - a. Concrete Masonry Unit Assembly, f'm = 2000 psi.
  2. Unit Strength Method, IBC 2105.2.2.2:
     - a. Concrete Masonry Units, minimum unit strength of 2800 psi average or better. (f'm = 2000 psi)
- D. Mortar: Use Type "S" according to ASTM C270, proportion specification. Admixtures shall not be added to the mortar mix.
- E. Grout: For masonry assemblies with f'm = 2,000 psi or less conform to ASTM C476, proportion specification. Grout that does not meet the requirements of ASTM C476 proportion specification or that is used in masonry assemblies with f'm > 2,000 psi shall meet the following requirements: Meet the material requirements of ASTM C476, obtain a minimum compressive strength of f'm or 2,000 psi, whichever is larger, at 28 days tested according to ASTM C1019, and a slump of 8 in. to 11 in. as determined by ASTM C143.
  1. Self Consolidating Grout: Conform to the material requirements of ASTM C476, obtain a minimum compressive strength of f'm or 2,000 psi, whichever is larger, at 28 days tested according to ASTM C1019, obtain a slump flow of 24 in. to 30 in. as determined by ASTM C1611, and shall have a Visual Stability Index less than or equal to 1 as determined in accordance with ASTM C1611 Appendix X.1. Field addition of admixtures is not permitted.
- F. Reinforcing: Grade 60 reinforcing steel shall comply with ASTM A615. Wire joint reinforcing shall comply with ASTM A951.
- G. Deformed Bar Anchors (DBA): All DBAs shall comply with ASTM A496.
- H. Anchor Bolts (AB): ASTM A307 with ASTM A563 heavy hex nuts and hardened washers, Grade A, unless noted otherwise.
- I. Headed Stud Anchors (HSA): Manufacture all HSAs in conformance with ASTM A108 with dimensions complying with AISC specifications.

4.2. Construction Requirements:
- A. Mortar Joints: Joints shall be "concave", "V-joint" or "weathered raked" for structural members unless noted otherwise on architectural drawings.
- B. Masonry walls, beams and columns shall be constructed with running bond, unless noted otherwise.
- C. Grouting Requirements: Comply with IBC Section 2104 and ACI 530.1/ASCE 6/TMS 602 Section 3.5. Grout shall be mechanically consolidated and mechanically reconsolidated according to TMS 602/ACI 530.1/ASCE 6 Section 3.5 E.
  1. Grout Pour Heights that exceed 4 feet shall meet the following requirements:
     - a. Provide cleanouts in the bottom course of masonry for each grout pour in accordance with ACI530.1/ASCE 6/TMS 602 Section 3.2 F.
     - b. For grout other than Self Consolidating Grout a demonstration panel representative of the proposed wall construction and construction procedures shall be provided and approved by the Architect. The demonstration panel may be a part of the completed construction as approved by the Architect.
     - c. For Self Consolidating Grout placed in masonry that has cured for at least 4 hours, place in lifts not exceeding the Maximum Grout Pour Height in listed in ACI 530.1/ASCE 6/TMS 602 Table 7.
  2. When grouting, form grout keys between grout pours. Form grout keys between grout lifts when the first lift is permitted to set prior to placement of the subsequent lift.
     - a. Form a grout key by terminating the grout a minimum of 1.1/2 in. below a mortar joint.
     - b. Do not form grout keys within beams.
     - c. At beams or lintels laid with closed bottom units, terminate the grout pour at the bottom of the beam or lintel without forming a grout key.
- D. Reinforcing Bars shall not be welded unless specifically shown on drawings. In such cases, use only AWS standards. Do not substitute reinforcing bars for DBAs or HSAs.
- E. Control Joints: Spacing shall not exceed 40'-0" or 2.5 times the wall height, whichever is less. Joints shall not be located over masonry openings, and shall be a minimum of the schedule masonry column width away from masonry openings. See architectural drawings for locations.
- F. Grout all beam and joist pockets solid after installation of beams and joists.
- G. Masonry Veneer Attachment and Reinforcing:
  1. To steel stud and wood stud walls: Veneer shall be attached to the studs Dur-O-Wal DA 213S seismic veneer anchors or Hohmann & Barnard DW-10HS seismic veneer anchors (or equal) spaced at 16" o.c. Veneer anchors shall be attached to studs with #10 corrosion resistant self drilling screws. Attach the veneer to the anchors with Dur-O-Wal Seismic Steel Pintles or Hohmann & Barnard Seismiclip Interlock System (or equal) spaced at a maximum of 16" o.c. in both directions. Anchor ties shall engage to a galvanized No. 9 gauge horizontal joint reinforcement wire in the veneer which shall be continuous and shall be placed at 16" o.c. maximum at the center of the veneer.
  2. Other methods of attachment may be used after written acceptance by the architect and structural engineer.
  3. Steel Lintels: Provide steel angle lintels at all openings through the masonry veneer. Provide one inch of bearing for each foot of width of opening, with a minimum bearing of six inches. See the Steel Angle Lintel Schedule for size.

4.3. Detailing Requirements:
- A. Standards: Reinforcing detailing shall comply with American Concrete Institute (ACI) Standard 315, "Details and Detailing of Concrete Reinforcement."
- B. Reinforcement Protection (cover):
  1. Joint reinforcement shall have not less than 5/8" mortar coverage from the exposed face.
  2. Other reinforcement shall have a minimum coverage of one bar diameter over all the bars, but not less than 3/4". When masonry is exposed to soil, minimum coverage shall be 1.5".
- C. Vertical steel reinforcement shall be placed and secured against displacement prior to grouting by wire positioners or other suitable devices: at intervals not exceeding 112 bar diameters, at the grout lift heights, or at bar splice locations, whichever is less. Vertical reinforcing shall be located at the center of the wall, unless noted otherwise.
- D. Lap Splice Lengths: Lap all masonry reinforcing bars per the "Masonry Reinforcing Bar Lap Splice Schedule." Joint reinforcement shall lap a minimum of 6".
- E. Corner Bars: Horizontal reinforcement shall be continuous at all corners and at intersecting walls. Provide corner bars with the required lap splice length.
- F. Dowels: All vertical reinforcing shall be doweled to the foundation wall, footing (structure below) and to the structure above with the same size dowel, spacing (and in the same core) as the vertical wall reinforcing unless noted otherwise.
- G. Wall Openings 24" wide and wider: Provide reinforced masonry lintels per Masonry Lintel Schedule over the top of, and 2 - #5 bars, in grouted spaces, on all sides and adjacent to every unscheduled opening, unless noted otherwise. Bars for all openings shall extend a minimum of 48 bar diameters beyond the corners of the opening. Vertical bars shall extend from floor level below to the floor, or roof, level above. Where a 48 bar diameter extension is not possible, extend bars as far beyond the opening as possible and terminate them with a 90 degree standard ACI hook.
- H. Horizontal wall reinforcing shall be continuous through joining concrete walls, masonry walls, columns, and pilasters. Provide a key between the wall and the column or pilaster. Horizontal wall reinforcing shall be placed inside the column vertical reinforcing.
- I. Anchor bolts and headed stud anchors shall be set in a grouted cell. Anchor bolts and headed stud anchors shall have 1" grout surrounding the shank at its penetration. Grout shall be flush with the face or top of the masonry.
- J. All masonry column ties shall terminate with 135 degree hooks plus a 6 bar diameter extension (4" minimum).
- K. The exposed face of all embed plates shall be set flush with the face of masonry wall or column.

4.4. Minimum Reinforcing:
All masonry walls shall be reinforced as follows, unless shown otherwise on the drawings. Reinforcing shall be placed in grouted cells.

Wall Thickness	Horizontal Reinf.	Vertical Reinf.
6"	#4 @ 48" o.c.	#5 @ 32" o.c.
8"	#5 @ 48" o.c.	#5 @ 32" o.c.
10"	#6 @ 48" o.c.	#6 @ 32" o.c.
12"	2 - #5 @ 48" o.c.	#6 @ 32" o.c.

5. Structural Steel

5.1. Material:
- A. W-Shapes: ASTM A992, (F_y = 50 ksi), except as noted otherwise.
- B. All Other Shapes and Plates: ASTM A36 (Fy = 36 ksi), except as noted otherwise.
- C. Rectangular and Square Hollow Structural Sections (HSS): ASTM A500, Grade B (Fy = 46 ksi).
- D. Round HSS: ASTM A500, Grade B (Fy = 42 ksi).
- E. Steel Pipe: ASTM A53, Grade B (Fy = 35 ksi).
- F. Deformed Bar Anchors (DBA): ASTM A496.
- G. Headed Stud Anchors (HSA): ASTM A108, with dimensions complying with AISC specifications.
- H. Anchor Rods: ASTM F1554, Grade 36 with ASTM A563 heavy hex nuts and ASTM F436 hardened washers, unless noted otherwise.
- I. Structural steel that is part of the seismic force resisting system shall be supplied with minimum Charpy V-Notch impact test results of 20 ft-lbs. absorbed energy at 70 degrees Fahrenheit, indicated below:
  1. Hot rolled shapes with flanges 1.1/2" thick and thicker tested in the alternate core location as described in ASTM A6 Supplementary requirement S30.
  2. Plates 2" and thicker measured at any location permitted by ASTM A673.
  3. Test Frequency: Each heat.

5.2. Fabrication and construction shall comply with the following Codes and Standards:
- A. American Institute of Steel Construction (AISC) 360-05, "Specification for Structural Steel Buildings," dated March 9, 2005.
- B. AISC 341-05, "Seismic Provisions for Structural Steel Buildings" dated March 9, 2005, including Supplement No. 1, dated November 16, 2005.
- C. AISC 303-05, "Code of Standard Practice for Steel Buildings and Bridges" excluding the following: Section 3.3 (last sentence of first paragraph), Section 4.4, Section 4.4.1, Section 4.4.2, Section 4.5, and Section 7.13.3.
  1. The architectural drawings are the prime contract drawings. Consultants' drawings by other disciplines are supplementary to the architectural drawings. The structural drawings shall be used in conjunction with the architectural drawings. Detailing and shop drawing production for structural elements will require information (including dimensions) contained in architectural, structural, and/or other consultants' drawings. Refer to VII. Special Instructions, notes VII.B and VII.C on this sheet.
- D. AISC/RCSC 2004, "Specification for Structural Joints Using ASTM A325 or A490 Bolts"
- E. American Welding Society (AWS) D1.1-04, "Structural Welding Code – Steel" (specific items do not apply when they conflict with the AISC requirements).
- F. American Welding Society (AWS) D1.8-05, "Structural Welding Code – Seismic Supplement" (specific items do not apply when they conflict with the AISC requirements).
- G. Steel Joist Institute (SJI) 2005, "Standard Specification, Load Tables and Weight Tables for Steel Joists and Joist Girders," and "Recommended Code of Standard Practice."
- H. American Iron and Steel Institute (AISI) 2007, "North American Specification for the Design of Cold-Formed Steel Structural Members."

5.3. Structural shapes and plates shall be fabricated from newly rolled (milled) one-piece sections without splices, unless specifically noted otherwise on the structural drawings. Connections for structural steel shall comply with the structural drawings, unless written approval is given by the structural engineer.

5.4. Welding:
- A. It is recommended the steel erection contractor and steel fabricator contact the Quality Assurance Agency prior to beginning any welds. A program of joint preparation and welding procedures should be worked out between the two parties before the welding is started so that correct welds will be made from the beginning.
- B. Certification of Welders: All shop and field welding shall be executed by AWS certified welders who have been specifically certified for the process of welding being performed. The welder's certification will be considered as being current unless the welder is not engaged in the process

STRUCTURAL DRAWING LIST	
SHEET NO.	SHEET NAME
SE001	GENERAL STRUCTUAL NOTES
SE002	GENERAL STRUCTUAL NOTES
SB100	FOOTING & FOUNDATION OVERALL PLAN
SB101	FOOTING & FOUNDATION Partial Plan 1
SB102	FOOTING & FOUNDATION Partial Plan 2
SB103	FOOTING & FOUNDATION Partial Plan 3
SB501	TYP FOOTING & FTDN DETAILS
SB502	FOOTING & FDTN DETAILS
SB503	FOOTING & FDTN DETAILS
SB504	TYP TILT-UP FOOTING & FDTN DETAILS
SB505	TILT-UP PANEL DETAILS
SB601	STRUCTURAL SCHEDULES
SB602	STRUCTURAL SCHEDULES
SF100	2nd FLOOR FRAMING OVERALL PLAN
SF101	2nd FLOOR FRAMING Partial Plan 1
SF102	2nd FLOOR FRAMING Partial Plan 2
SF103	2nd FLOOR FRAMING Partial Plan 3
SF110	LOWER ROOF FRAMING OVERALL PLAN
SF111	LOWER ROOF FRAMING Partial Plan 1
SF112	LOWER ROOF FRAMING Partial Plan 2
SF113	LOWER ROOF FRAMING Partial Plan 3
SF120	UPPER ROOF FRAMING OVERALL PLAN
SF121	UPPER ROOF FRAMING Partial Plan 1
SF122	UPPER ROOF FRAMING Partial Plan 2
SF123	UPPER ROOF FRAMING Partial Plan 3
SF201	TILT-UP PANEL ELEVATIONS
SF202	TILT-UP PANEL ELEVATIONS
SF203	TILT-UP PANEL ELEVATIONS
SF211	BRACED FRAME ELEVATIONS
SF212	BRACED FRAME ELEVATIONS
SF213	BRACED FRAME DETAILS
SF214	BRACED FRAME DETAILS
SF401	STAIR FRAMING PLANS
SF501	TYPICAL STEEL FRAMING DETAILS
SF502	TYP FLOOR FRAMING DETAILS
SF503	FLOOR FRAMING DETAILS
SF504	FLOOR FRAMING DETAILS
SF511	TYP ROOF FRAMING DETAILS
SF512	ROOF FRAMING DETAILS
SF513	ROOF FRAMING DETAILS
SF514	ROOF FRAMING DETAILS
SF515	ROOF FRAMING DETAILS
SF601	STRUCTURAL SCHEDULES

LICENSED CERTIFIED STRUCTURAL ENGINEER
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UTAH

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88 South Tooele Blvd
Tooele, UT 84074

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revisions :

GENERAL STRUCTUAL NOTES

sheet:

SE001

100% Construction Documents

of welding being performed for a period exceeding six months or there is a specific reason to question a welder's ability as required by AWS. Certification and records must comply with AWS Standards. Certification and appropriate records must be provided to the architect prior to beginning work.

C. Electrodes: E-70 XX or as noted otherwise. E60 XX may be used for welding steel floor and roof decks.

D. Minimum Welds: All intersecting steel shapes that are not bolted shall be connected by a fillet weld all around, unless noted otherwise. Fillet weld sizes that are not shown shall be 1/16" less than the thinnest of the connected parts for thicknesses 1/4" and larger. Fillet welds on plates less than 1/4" shall be of the same size as the thinnest of the connected parts.

E. Reinforcing Bars: Do not weld rebar except as specifically detailed in the drawings. In such cases, use only AWS standards. Do not substitute reinforcing bars for deformed bar anchors (DBAs), machine bolts, or headed stud anchors (HSAs).

F. Bolts: Do not apply any welds, including "tack" welds to bolts, including anchor bolts, except as specifically detailed in the drawings.

G. Headed Stud Anchor (HSA) welding and Deformed Bar Anchor (DBA) welding shall conform to the manufacturer's specifications. Welding shall comply with AWS D1.1 Section 7.6 through 7.8 and Annex IX.

H. Special Provisions for Welds in the SLRS (Seismic Load Resisting Systems): Welds used in members and connections of braced frames and collector elements shall comply with these requirements. Welding methods, procedures and quality control shall comply with AISC 341, AWS D1.1, AWS D1.8 and the following:
   1. Braced Frame Welding: Lengths shown for fillet welds at brace-to-gusset, gusset-to-baseplate, and column-to-gusset connections are minimums, intended for establishing gusset plate dimensions. Weld entire contact length at these joints, typical.

5.5. Bolted Connections:

A. Provide snug tightened joints with ASTM A325N Type 1 bolts for steel to steel connections, as noted herein or as noted on the drawings. Snug tightened joints shall be used in connections for simple span framing and beam (or girder) to bearing plate connections. The snug tightened condition is usually attained by a few impacts of an impact wrench or the full effort of a man using an ordinary spud wrench. Bolts shall be tightened until all plies of the joint are in firm contact.

B. Provide pretensioned joints with ASTM A325N Type 1 bolts for all steel to steel connections that are part of the Seismic Load Resisting System (SLRS). Faying surfaces shall meet the requirements of a slip-critical Class A surface except for faying surfaces of end plate moment connections. Tighten bolts by the turn of the nut, calibrated wrench, or direct tension indicator method. Alternate fastener designs as defined by AISC shall be submitted to the engineer for review and acceptability prior to installation. Provide hardened washers beneath turned element.

C. Provide hardened washers beneath the turned element of all bolts or nuts. Provide hardened beveled washers, to compensate for the lack of parallelism, where the outer face of the bolted parts has a slope greater than one in twenty with respect to the plane normal to the bolt axis. Hardened washers or plates installed over oversized holes or slotted holes shall be at least 5/16" thick and shall conform to ASTM F436. Plates or bars installed at slotted holes shall have a size sufficient to completely cover the slot after installation.

D. Where a steel to steel beam connection is not detailed in the drawings, provide a standard AISC framed connection with the capacity to support one half of the total uniform load capacity of the given shape for the span and for the steel specified.

E. Bolts, nuts and washers shall not be reused.

5.6. Steel Lintels

A. Provide steel angle lintels at all openings through the masonry veneer. Provide one inch of bearing for each foot of width of opening, with a minimum bearing of six inches. See the Steel Angle Lintel Schedule for size.

5.7. Beam Web Stiffener Plates:

A. Provide full-height web stiffener plates to each side of all beams above all bearing points. Stiffener plates shall be the thickness noted below unless noted otherwise and shall be welded on both sides of the stiffener plate with fillet welds (noted below) all around.

Beam Web stiffener thickness	For beams with flange widths between	Weld Size
1/4 inch thick	Greater than 0" and less than 8 1/4"	3/16"
3/8 inch thick	Greater than 8 1/4" and less than 12 1/4"	1/4"
1/2 inch thick	Greater than 12 1/4" and less than 16 1/2"	5/16"
5/8 inch thick	Greater than 16 1/2" and less than 20 3/4"	3/8"

5.8. Composite Beams

A. Composite beams are indicated on the framing plans with the suffix ( ). The number inside the brackets indicates number of studs for this beam. Beams shall have the studs spaced uniformly over the entire beam length.

B. Beams which have more than one number inside the symbol (, ,), such as (W, X, Y, Z), shall have "W" number of studs spaced evenly over the first "section of beam", "X" number of studs spaced evenly over the second "section of beam", "Y" number of studs spaced evenly over the third "section of beam", and "Z" number of studs spaced evenly over the fourth "section of beam". A "section of beam" is defined as that portion of beam located between the column and the nearest intersecting framing member or that portion of beam located between two adjacent intersecting framing members.

C. All headed stud type shear connectors shall be in conformance with ASTM A108. Dimensions shall comply with AWS. Use 3/4" diameter studs. Headed studs shall extend 2" minimum above the top of the steel deck after welding. Headed studs shall be applied through the metal deck to the top flange of the steel section, or welded directly to the steel section.

D. The minimum center-to-center spacing of stud connectors shall be six (6) diameters along the longitudinal axis of the supporting composite beam and four (4) diameters transverse to the longitudinal axis of the supporting composite beam. The maximum center to center spacing shall not exceed 32".

E. C= 0.00" on the plans denotes precamber dimension (upward) in inches.

5.9. Open Web Steel Joists and Girders:

A. The steel joist supplier shall be responsible for the design of all open web steel joists and girders. Joists or girders with slopes greater than 1/2 inch per foot shall be designed to meet or exceed the load capacities, listed in the SJI load tables, of the joist or girder sizes indicated on the framing plan, as if the joists or girders were installed level.

B. Open web joists and girders shall be designed with deflection limits of L/240 for total load and L/360 for live load, where L is the joist span.

C. Where uplift loads due to wind are indicated, rows of bottom chord bridging shall be provided at the first bottom chord panel points per SJI Specifications. This is in addition to the bridging shown on the framing plans.

D. Provide special bearing ends to accommodate slopes from sloped joists, sloped girders or sloped bearing conditions.

E. Camber: All joists shall be cambered as specified in the SJI specifications, unless noted otherwise.

F. Field Modifications: Do not modify any joist or girder, including holes through the top and bottom chords, without the written consent and direction from the manufacturer.

G. Shop Drawings and Design Calculations: Shop drawings for all joists and girders used in the project shall be submitted for review. Prior to the fabrication of joists and girders, the open web steel joist and girder manufacturer shall prepare complete joist and girder calculations under the direct supervision of a professional engineer licensed in the State of Utah. Calculations shall be submitted for review for joists and girders designated as SPECIAL or SP and for all joists or girders with axial loads or additional concentrated loads (as noted on the drawings). Submitted calculations shall bear the seal of a professional engineer licensed in the State of Utah.

H. Stabilizer Plates: Provide steel joist and joist girder stabilizer plates as indicated. Stabilizer plates shall be 6" x 6" with a 13/16" diameter hole with 1.1/2" minimum edge distance, and shall extend 3" minimum below the bottom chord of the joist or girder. Plate thickness shall be equal to the chord gap minus 1/4", or 3/4", whichever is less.

I. Verify size, weight, location and configuration of all roof top equipment with architect and mechanical engineer. Provide steel frames for support of roof top equipment as indicated on structural details in the structural drawings. Coordinate openings with the mechanical and general contractor.

J. All concentrated loads greater than 100 pounds supported by open web steel joists and girders shall be located within 6 inches of joist or girder panel points or the joist or girder shall be reinforced with an additional web member. Refer to the "TYPICAL DETAIL AT ADDITIONAL CONCENTRATED POINT LOAD" in the structural drawings.

K. Concentrated point loads, single or multiple, totaling 100 pounds or less can be located at any point along the top or bottom chord of an open web steel joist or girder between adjacent panel points without meeting the requirements above. A limit of four concentrated 100# maximum point loads per joist or girder will be permitted on spans of 12' or greater, one concentrated 100# max. load on spans less than 12', unless specifically noted otherwise on the structural drawings.

L. Joist bridging shall never be used to support hanging loads.

M. Bracing of miscellaneous items (mechanical, electrical, plumbing, etc.) to the bottom chord of joists or girders will not be allowed in any instance. All lateral braces must connect to the top flange/top chord of the framing member above unless noted otherwise on the structural drawings.

5.10. Steel Floor Deck:

A. Steel floor deck shall comply with the latest requirements of the Steel Deck Institute (SDI). Submit ICC Code Evaluation Report with load and lateral shear capacities with shop drawings.

B. Steel floor deck shall be 3" deep X 20 gauge minimum phosphatized/painted composite (deck shall be galvanized (G60) when used above or below mechanical equipment rooms), type "W" deck with interlocking side seams with the following properties:

	20 Gauge	18 Gauge
Minimum S (in^3/ft) =	0.534	0.767
Minimum I (in^4/ft) =	0.896	1.203

Painted deck shall be coated with special paint to receive sprayed-on fire proofing, where required.

C. A 3 1/2" thick (6 1/2" overall) normal weight concrete (f'c = 3,000 psi @ 28 days unless noted otherwise) slab shall be poured over the steel deck. Reinforce slab with 6" x 6" - W2.1/W2.1 welded wire fabric (minimum) or reinforce slab with 2 pounds per cubic yard minimum polypropylene fibrillated fiber reinforcement, as per specifications. Welded Wire Fabric shall be placed 1" to 1 1/2" below the top of the slab.

D. Steel deck with 3 1/2" thick (6 1/2" overall) normal weight concrete slab shall have a minimum diaphragm shear capacity of 2340 lbs/ft. for a 9'-0" deck span.

E. Weld deck to supporting framing members with 3/4" diameter puddle welds at the following spacing (Closer spacings may be used to develop minimum shear requirements.):
   1. 12" o.c. to supports perpendicular to deck corrugations (4 welds per 36" wide sheet).
   2. 12" o.c. to all supports parallel to deck corrugations.
   3. Stud welds may take the place of puddle welds where studs are welded through the deck to the top flange of beams.
   4. All welded surfaces shall be dry before welding deck or studs to supports.

F. Attach interlocking seams with 3/16" button punch at 18" o.c. or 1 1/2" top seam weld at 36" o.c. between adjacent pieces of deck. Crimp seams before button punching or welding interlocking seams. Closer spacings may be used to develop minimum shear requirements.

G. All deck shall be 3-span continuous minimum where possible. In areas where 3-span conditions are not possible, the deck shall meet the above loading criteria for the span condition. The contractor shall provide heavier gauge deck or provide shoring as required for one or two span conditions to meet the equivalent loading of the above deck under a three span condition.

H. Deck shall have a minimum bearing length of 2".

5.11. Steel Roof Deck:

A. Steel roof deck shall comply with the latest requirements of the Steel Deck Institute (SDI). Submit ICC Code Evaluation Report with load and lateral shear capacities with shop drawings.

B. Steel roof deck shall be 1 1/2" deep X 20 Gauge minimum galvanized (G60), type "B" wide rib deck with interlocking side seams, unless noted otherwise, with the following properties:

	20 Gauge	18 Gauge
Minimum S (in^3/ft)=	0.235	0.322
Minimum I (in^4/ft)=	0.216	0.302

Painted roof deck shall be coated with special paint to receive sprayed-on fire proofing, where required.

C. Minimum allowable deck diaphragm shear values for type "B" deck shall be 1189 lb/ft. for a 6'-0" deck span.

D. Where indicated, steel roof deck shall be 3" deep X 20 Gauge minimum galvanized (G60), type "N" wide rib deck with interlocking side seams with the following properties:

	20 Gauge	18 Gauge
Minimum S (in^3/ft)=	0.508	0.731
Minimum I (in^4/ft)=	0.837	1.223

Painted roof deck shall be coated with special paint to receive sprayed-on fire proofing, where required.

E. Minimum allowable deck diaphragm shear values for type "N" deck shall be 540 lb/ft. for a 6'-0" deck span.

F. Weld steel roof deck to supporting framing members with 3/4" diameter puddle welds at the following spacings (Closer spacings may be used to develop minimum shear requirements.):
   1. 6" o.c. to all supports perpendicular to deck corrugations (7 welds per 36" sheet).
   2. 6" o.c. to the following supports parallel to deck corrugations: All perimeter supports, all concrete or masonry walls, all joists or joist girders with a "T/C" designation, and all steel beams which are on a grid line with braced frames or moment frames.
   3. 12" o.c. to all other supports parallel to deck corrugations.
   4. All welded surfaces shall be dry before welding deck to supports.

G. Attach interlocking seams with 1 1/2" long top seam welds at 12" o.c. minimum between adjacent pieces of decking. Crimp side seams before welding. Closer spacings may be used to develop minimum shear requirements.

H. Alternate means of deck attachment and fastening using screws, pins or other mechanical fastening methods are permitted with approval of the engineer. The contractor shall submit the proposed attachment system and the code evaluation report demonstrating the system has the strength to meet the required deck shears specified above (in item 3) and on the plans. The flexibility factor of the proposed deck attachment system shall be equal to or less than the flexibility factor for the specified welded deck attachment system. If the alternate attachment method is approved, it is the responsibility of the contractor to ensure that the deck type and profile is compatible with the fastening system being used.

I. Provide a 2" minimum bearing and a 4-inch lap at the splice points of all pieces of deck.

J. All deck shall be 3-span continuous minimum where possible. The contractor shall provide heavier gauge deck as required for one or two span conditions to meet equivalent loading of the above deck under a three span condition.

K. Steel roof deck shall not be used to support loads from plumbing, HVAC ducts, light fixtures, architectural elements or equipment of any kind, unless specifically noted otherwise. Lightweight suspended acoustical ceilings with a total weight per wire not exceeding 50# may be hung from the steel roof deck. The hangers should be staggered to distribute the load over multiple deck flutes.

5.12. Cold-Formed Steel

A. Light Gauge Steel Framing:
   1. Where steel framing size designators are used in the drawings, they follow the convention established by the Steel Stud Manufacturers' Association (SSMA) and the North American Steel Framing Alliance (NASFA). Framing members provided shall comply with the designations according to this convention.
   2. All load bearing stud (and/or) joist framing members along with all runner, bridging, and end track shall be of the designation shown on the plans. All studs with base metal thickness of 54 mil and 68 mil, and joists with base metal thickness of 54 mil, 68 mil and 97 mil, shall be formed from steel meeting the requirements of ASTM A570 except that the steel shall have a 50,000 psi yield stress. All track and end closures with base metal thickness of 54 mil and 68 mil, bridging with base metal thickness of 54 mil, and studs and track with base metal thickness of 43 mil and 33 mil, shall be formed from steel with a minimum yield of 33,000 psi. All components shall be galvanized.
   3. Follow all manufacturers' recommendations for the use of these products.
   4. Unless noted otherwise, all welded connections shall be done using 1/8" AWS type 6013 or 7014 rod with a welding heat of 60-110 amperes depending on the gauge of material and the fit of the parts. Wire tying of framing components shall not be permitted.
   5. 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 (+/-). The KL/r ratio of the brace shall not exceed 200 and shall not be spaced further apart than 10'-0". Connect diagonal braces to the top of the steel stud walls and to the underside of the top flange of the steel beams, open web joists or girders, etc. with 1/8" fillet welds all around. Diagonal angle braces may be connected to 8" x 8" x 1/4" steel plates which shall be anchored to the floor or roof decks which have concrete fill above with 2- 3/8" dia. expansion anchors for each plate. Connect angle to plate with a 1/4" fillet weld all around. Connect diagonal braces to roof decking which does not have concrete fill above per the non-bearing wall brace connection details shown on the structural drawings. Diagonal braces may be constructed from cold-formed light gauge steel studs but must conform to the kl/r ratio of less than 200 requirement. When diagonal brace lengths exceed 10'-0" (+/-), cold-formed box sections made from two 600S137-54 steel studs will likely be required.

B. Prefabricated Systems: Submit complete shop drawings and calculations of all elements for review. Submittals shall bear the stamp of a Professional Engineer registered in the State of Utah.

5.13. Metal Bar Grating:

A. Metal bar grating shall comply with the most recent requirements of the National Association of Architectural Metals Manufacturers, Metal Bar Grating Division (NAAMM MBG). Products shall conform to the latest edition of the Metal Bar Grating Manual, ANSI/NAAMM MBG 531, or the Heavy Duty Metal Bar Grating Manual, ANSI/NAAMM MBG 532, as appropriate.

B. Materials: Unless noted otherwise, metal bar grating of the following types shall conform with the following standards:
   1. Steel: ASTM A569 (allowable fiber unit stress F = 18,000 psi)
   2. Stainless Steel: ASTM A167, alloys 304/316 (allowable fiber unit stress F = 20,000 psi)
   3. Aluminum: ASTM B221, alloys 6063-T6/6061-T6 (allowable fiber unit stress F = 12,000 psi)

C. Metal bar grating shall be provided with mill finish, unless otherwise noted.

D. Unless noted otherwise, provide W-19-4 (1.1/2" x 3/16") Steel grating in locations where metal bar grating is specified.

E. All metal bar grating shall be firmly and positively anchored to supporting members. Unless noted otherwise, weld grating to supporting members with 3/16" fillet welds, 3/4" long. Locate welds at each end of bearing bars approximately 6 in from each side of grating panel. At intermediate supports in panel, locate one weld at middle of panel.

6. Special Instructions

6.1. The project specifications are not superseded by the General Structural Notes but are intended to be complementary to them. Consult the specifications for additional requirements in each section. Notes and specific details on the drawings shall take precedence over General Structural Notes and typical details.

6.2. The architectural drawings are the prime contract drawings. Consultant drawings by other disciplines are supplementary to the architectural drawings. All omissions or conflicts, including dimensions, between the various elements of the consultants' drawings and/or specifications shall be brought to the attention of the Architect before proceeding with any work involved. In case of conflict, follow the most stringent requirement as directed by the Architect without additional cost to the owner. Any work done by the contractor after discovery of such discrepancy shall be done at the contractor's risk.

6.3. The structural drawings shall be used in conjunction with the architectural drawings. Primary structural elements and overall structural layout are indicated within the structural plans and details. Some secondary elements, architectural layouts, alcoves, elevations, slopes, depressions, curbs, mechanical equipment and electrical equipment, are not indicated within the structural drawings. Detailing and shop drawing production for structural elements will require information (including dimensions) contained in the architectural, structural and/or other consultants' drawings.

6.4. Shoring and Bracing Requirements:

A. Floor and Roof Structures -- The General Contractor is responsible for the method and sequence of all structural erection. He shall provide temporary shoring and bracing as his method of erection requires to provide adequate vertical and lateral support. Shoring and bracing shall remain in place as the chosen method requires until all permanent members are in place and all final connections are completed, including all roof and floor attachments. The building shall not be considered stable until all connections are complete.

B. Foundation walls must be braced until the complete floor or roof systems is completed. Do not backfill until floor or roof systems are in place.

C. Walls above grade shall be braced until the structural system is complete. Walls shall not be considered to be self supporting.

6.5. All expansion joints (E.J.) shown in the structural drawings shall be considered seismic separation joints, unless noted otherwise.

6.6. Submittals: A copy of all shop drawings that have been submitted for review must be kept at the construction site for reference. These drawings must bear the appropriate review stamps. The shop drawing review shall not relieve the contractor of the responsibility of completing the project according to the contract documents. The general contractor shall review and mark all shop drawings prior to submitting them to the Architect for his review. Shop Drawings made from reproductions of (these) contract drawings will be rejected.

6.7. Project Coordination: It shall be the responsibility of the general contractor to coordinate with all trades any and all items that are to be integrated into the structural system. Openings or penetrations through, or attachments to the structural system that are not indicated on these drawings shall be the responsibility of the general contractor and shall be coordinated with the Architect/Engineers. The order of construction is the responsibility of the general contractor. It is the contractor's obligation to provide all items necessary for his chosen procedure.

6.8. Contractor shall field verify all dimensions, and conditions. If the contract drawings do not represent actual conditions, contractor shall notify architect/engineer prior to fabrication or construction within that area.

6.9. Notice of Copyright: The structural drawings, plans, schedules, notes and details are hereby copyrighted by Reaveley Engineers and Associates, Inc., All Rights reserved. Submission or distribution of documents to meet official regulatory requirements or for similar purposes in connection with the project is not to be construed as publication in derogation of Reaveley Engineers and Associates, Inc.'s reserved rights. The documents defining the structure are instruments of service prepared by Reaveley Engineers and Associates, Inc. for one use only. Furthermore, these documents shall not be reproduced, or copied, in whole or in part by the contractor or his subcontractors for preparation of shop drawings or other submittals.

7. Quality Assurance

7.1. Quality Assurance Agency Requirements:

A. The Owner shall engage a qualified Quality Assurance Agency (QAA) to provide all special inspection and quality assurance testing for the project. The QAA shall provide all information necessary for the building official to determine that the agency meets the applicable requirements
   1. The QAA shall be objective, competent and independent from the contractor responsible for the work being inspected. The agency shall also disclose possible conflicts of interest to confirm objectivity.
   2. The QAA shall have adequate equipment to perform required tests.
   3. The QAA shall employ experienced personnel educated in conducting, supervising and evaluating tests and/or inspections. Experience or training shall be considered relevant when the documented experience or training is related in complexity to the same type of special inspection activities for projects of similar complexity and material qualities.
   4. Prior to the start of construction, the QAA shall submit to the building official, the owner architect and engineer copies of the following:
      a. Current calibration records for all equipment to be used for the work being inspected and/or tested.
      b. Current certification and training records for each individual performing the inspections and/or testing.
      c. Sample inspection and testing reports and the distribution list for the records.
      d. Proposed inspection procedures and frequency for each inspection required by the work.
      e. Proposed testing methods and frequency of testing required by the work.
   5. The QAA shall send copies of all inspection and testing reports to the building official, owner, architect, engineer and contractor. Reports shall indicate that the work inspected was or was not completed in conformance to the approved construction documents. Discrepancies shall be brought to the immediate attention of the contractor for correction. If they are not corrected, the discrepancies shall be brought to the attention of the building official, architect and engineer.
   6. The QAA shall submit a final report documenting required special inspections and correction of any discrepancies noted in the inspections. The final report shall be distributed to the building official, owner, architect and engineer in a timely manner prior to the completion of the project.

7.2. Contractor Responsibilities:

A. Each contractor responsible for the construction of a system or component requiring special inspections or testing shall submit a written statement of responsibility to the building official, owner, architect and engineer prior to the commencement of the work. The contractor's statement of responsibility shall contain the following:
   1. Acknowledgement of awareness of the special requirements defined in the statement of special inspections.
   2. Acknowledgement that control will be exercised in order to obtain conformance to the approved construction documents.
   3. Contractor's internal quality control procedures, methods and measures to be used in order to obtain conformance to the approved construction documents. Include copies of quality control reports, frequency of reporting and distribution of reports.
   4. Identification and qualifications of the person(s) responsible for quality control and their position(s) within the organization.

B. Notification of Engineer: The contractor shall notify the engineer twenty-four hours prior to:
   1. Placing concrete in any footing.
   2. Closing any wall forms.
   3. Placing concrete in any column, beam or suspended slab.
   4. Grouting any masonry.
   5. Completing the welding of major sections of steel decking.
   6. Completing the nailing of any plywood wall or deck.

C. Notification of QAA: The contractor shall notify the QAA in a timely manner so that inspection and testing may be performed as outlined in the statement of special inspections.

7.3. Structural Observations by the Engineer of Record.

A. The Engineer of Record will perform structural observations at critical phases of the project. Copies of the engineer's report will be distributed to the architect, contractor, owner, and building official.

B. Observation visits to the site by the Engineer's field representatives shall not be construed as inspection or approval of construction.

PLAN MARKS

PLANMARKS—LONG

BF-#	BRACED FRAME
CB-#	CONCRETE BEAM
CC-#	CONCRETE COLUMN
CDP-#	CONC DRILLED PIER
CFW-#	CONC FDTN. WALL
CGB-#	CONC GRADE BEAM
CJ-#	CONCRETE JOIST
CL-#	CONCRETE LINTEL
CP-#	CONCRETE PIER
CRW-#	CONC RETAINING WALL
CSG-#	CONC SLAB ON GRADE
CSS-#	CONC SUSPENDED SLAB
CSW-#	CONC SHEAR WALL
CW-#	CONCRETE WALL
FC#	CONTINUOUS FOOTING
FM#	MAT FOOTING
FR#	RECTANGULAR FOOTING
FS#	SQUARE FOOTING
FTS#	THICKEND SLAB FOOTING
MC-#	MASONRY COLUMN
MF-#	MOMENT FRAME
ML-#	MASONRY LINTEL
MP-#	MASONRY PIER
MW-#	MASONRY WALL
PD-#	PLYWOOD DIAPHRAGM
PSW-#	PLYWOOD SHEAR WALL
SBP-#	STEEL BASE PLATE
SC-#	STEEL COLUMN
SCP-#	STEEL CAP PLATE
SD-#	STEEL DECK

ABBREVIATIONS

ABBREVIATIONS—LONG

AB	ANCHOR BOLT (S)
ABV	ABOVE
@	AT
ALT	ALTERNATE
APPROX	APPROXIMATE
ARCH	ARCHITECT(URAL)
BM	BEAM
BLW	BELOW
BRG	BEARING
BTWN	BETWEEN
BLDG	BUILDING
BOT	BOTTOM
C.J.	CONSTRUCTION JOINT OR CONTROL JOINT
CJP	COMPLETE JOINT PENETRATION
CMU	CONC MASONRY UNIT
COL	COLUMN
CONC	CONCRETE
CONST	CONSTRUCTION
CONT	CONTINUOUS
CONTR	CONTRACTOR
CTR	CENTER
DB	DECK BEARING
DBA	DEFORMED BAR ANCHORS
DBL	DOUBLE
DET	DETAIL
DIA (OR Ø)	DIAMETER
DIM	DIMENSION
DN	DOWN
DWG	DRAWING
DWL	DOWEL
EA	EACH
E.J.	EXPANSION JOINT (SEISMIC SEPARATION JOINT)
ELEV	ELEVATION
ELEC	ELECTRICAL
EQUIP	EQUIPMENT
EQ	EQUAL
EXIST	EXISTING
EXP	EXPANSION / EXPOSED
EXT	EXTERIOR
E.F.	EACH FACE
E.W.	EACH WAY
F.D	FLOOR DRAIN
FDTN	FOUNDATION
F.F.	FINISH FLOOR
FIN	FINISH
FL	FLOOR
FT	FOOT
FTG	FOOTING
FV	FIELD VERIFY
GA	GAUGE
GALV	GALVANIZED
GLB	GLU-LAMINATED BEAM
GR	GRADE
GSN	GENERAL STRUCTURAL NOTES
HB	HORIZONTAL BRIDGING
HT	HEIGHT
HORIZ	HORIZONTAL
HSA	HEADED STUD ANCHORS
IBC	INTERNATIONAL BUILDING CODE
ICBO	INTERNATIONAL CONFERENCE OF BUILDING OFFICIALS
ICC	INTERNATIONAL CODE COUNCIL
IN.	INCH
INSUL	INSULATION
INT	INTERIOR
I.F.	INSIDE FACE
JT	JOINT
JST	JOIST
KLF	KIPS PER LINEAL FOOT
KSF	KIPS PER SQUARE FOOT
KSI	KIPS PER SQUARE INCH
K	KIPS - 1,000 POUNDS
LF	LINEAL FOOT
LBS	POUNDS
LLH	LONG LEG HORIZONTAL
LLV	LONG LEG VERTICAL
MAS	MASONRY
MAX	MAXIMUM
MCJ	MASONRY C.J.
MECH	MECHANICAL
MFR	MANUFACTURER
MIN	MINIMUM
MISC	MISCELLANEOUS
NIC	NOT IN CONTRACT
NTS	NOT TO SCALE
OPNG	OPENING
OPP	OPPOSITE
O.C.	ON CENTER
O.F.	OUTSIDE FACE
OWSJ	OPEN WEB STEEL JOIST
PCF	POUNDS/CUBIC FOOT
PL	PLATE
PLF	POUNDS/LINEAL FOOT
PNL	PANEL
PSF	POUNDS/SQ FOOT
PSI	POUNDS/SQ INCH
PT	POINT
REINF	REINFORCING
R.D.	ROOF DRAIN
REQ'D	REQUIRED
SHT	SHEET
SI	SPECIAL INSPECTION
SOG	SLAB ON GRADE
STD	STANDARD
STIFF	STIFFENER
STL	STEEL
SQ	SQUARE
SIM	SIMILAR
STR	STRUCTURAL
STAG	STAGGERED
T&B	TOP AND BOTTOM
TEMP	TEMPERATURE
THDS	THREADS
T.O.	TOP OF
TOC	TOP OF CONCRETE
TOF	TOP OF FOOTING
TOS	TOP OF SLAB
TOW	TOP OF WALL
TYP	TYPICAL
UNO	UNLESS NOTED OTHERWISE
VERT	VERTICAL
W/	WITH
WWF	WELDED WIRE FABRIC

LICENSED CERTIFIED STRUCTURAL ENGINEER
NO. 178779
MARK R. HARRIS
UTAH

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Consulting Structural Engineers

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GENERAL STRUCTURAL NOTES

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SE002

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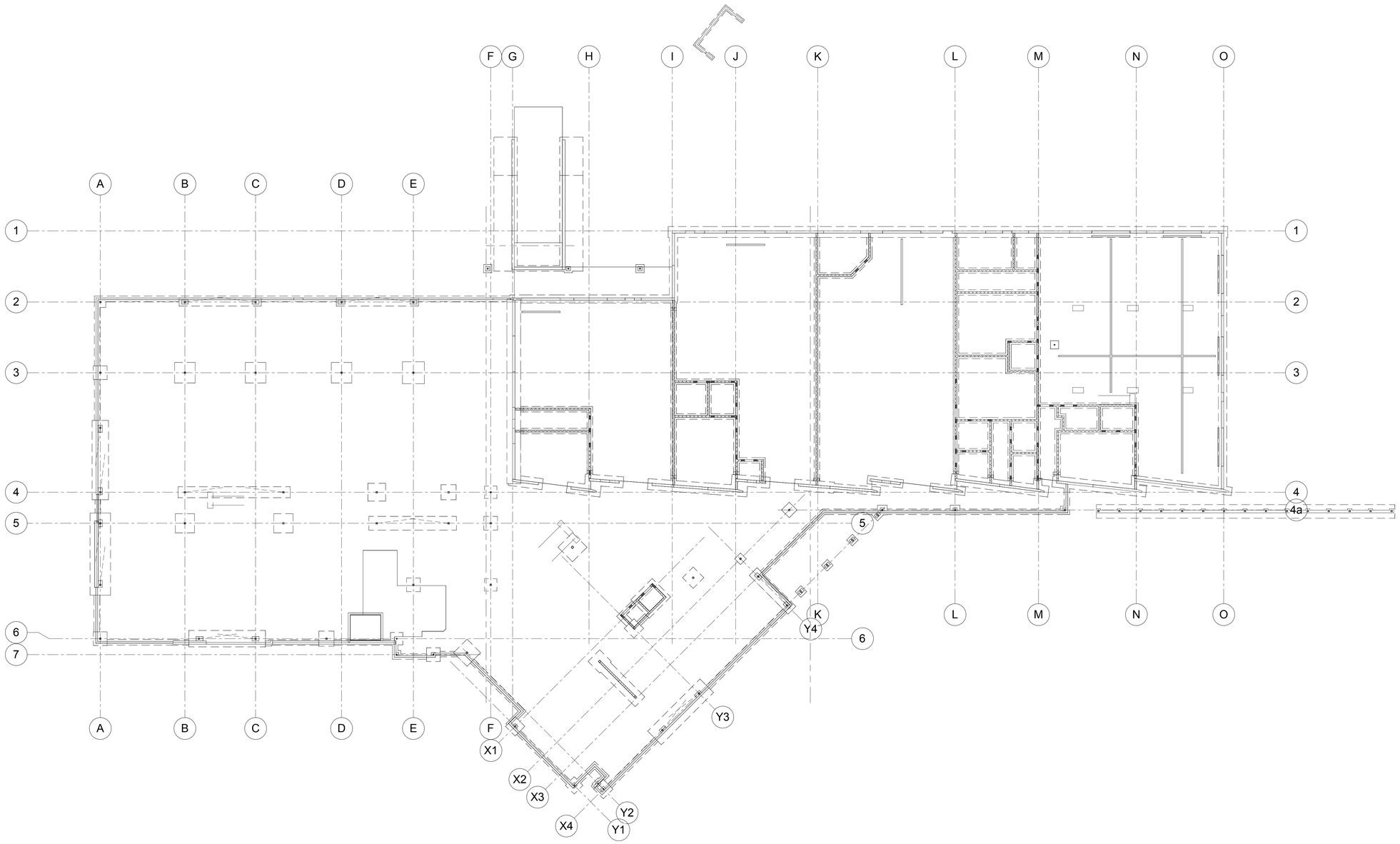
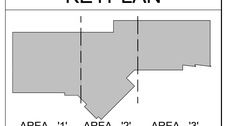


A1 / SB100 FOOTING & FOUNDATION OVERALL PLAN

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

KEYPLAN



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revisions :

FOOTING & FOUNDATION OVERALL PLAN

sheet:

SB100

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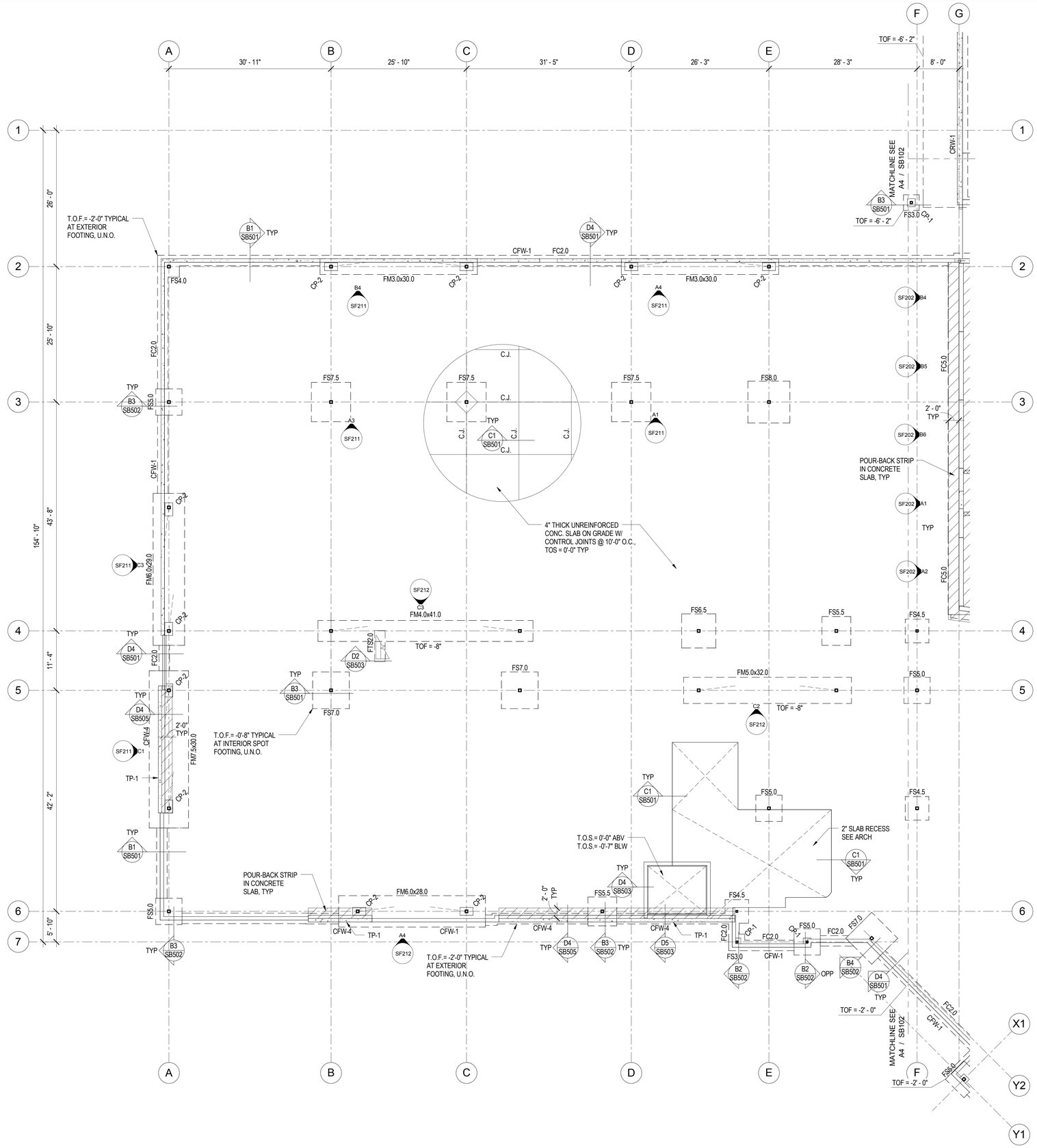


A1 SB101 FOOTING & FUNDATION PARTIAL PLAN 1

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

FOOTING & FOUNDATION PLAN LEGEND

- FOOTING STEP
- FOOTING - CONTINUOUS
- FOOTING - THICKENED SLAB
- FOOTING - SQUARE FOOTING - RECTANGULAR FOOTING - MAT FOOTING
- CONCRETE WALL, CONCRETE FOUNDATION WALL, OR CONCRETE RETAINING WALL
- CONCRETE FOUNDATION WALL - RECESSED
- CONCRETE PIER IN CONCRETE WALL. TOP OF PIER RECESSED 8" BELOW SLAB. TYP U.N.O.
- CONCRETE JAMB COLUMN POURED MONOLITHIC WITH CONCRETE WALL
- MASONRY WALL
- MASONRY WALL - RECESSED
- MASONRY COLUMN IN MASONRY WALL
- STEEL COLUMN - TUBE
- STEEL BRACED FRAME - ABOVE
- 0" CHANGE IN ELEVATION
- SLAB BLOCK-OUT AT COLUMN
- CJ SLAB CONTROL/CONSTRUCTION JOINT
- SPECIAL SLAB AREA
- RECESSED/DEPRESSED SLAB
- OPENING

FOOTING & FOUNDATION PLAN NOTES

1. SEE ARCHITECTURAL, CIVIL AND LANDSCAPE DRAWINGS FOR EXTERIOR CONCRETE WORK AT DOORS, SIDEWALKS ETC.

2. SEE ARCHITECTURAL DRAWINGS AND FINISH SCHEDULE FOR SLAB AREAS TO RECEIVE FLOOR TILE.

3. SEE ARCHITECTURAL DRAWINGS FOR SLAB DEPRESSIONS AND SLOPES TO DRAINS, ETC.

4. SEE ARCHITECTURAL, CIVIL AND LANDSCAPE DRAWINGS FOR ADDITIONAL EXTERIOR CONCRETE RETAINING AND / OR SITE WALLS NOT SHOWN ON THE STRUCTURAL DRAWINGS.

5. SEE TYPICAL STEP DETAIL AT CONTINUOUS FOOTING FOR CHANGES IN FOOTING ELEVATIONS.

6. SEE TYPICAL CONCRETE WALL REINFORCING DETAILS FOR REINFORCEMENT AT INTERSECTIONS CORNERS AND ENDS.

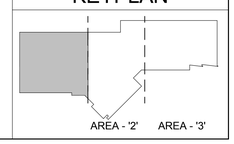
7. SEE TYPICAL CONCRETE SLAB ON GRADE DETAILS FOR CONSTRUCTION JOINTS, CONTROL JOINTS AND ADDITIONAL SLAB REINFORCING.

8. SEE TYPICAL CONCRETE SLAB ON GRADE PROFILE DETAIL FOR SUBGRADE REQUIREMENTS.

9. PROVIDE COMPACTED STRUCTURAL FILL UNDER ALL CONCRETE FOOTINGS PER TYPICAL COMPACTED STRUCTURAL FILL DETAIL.

10. SEE TYPICAL REINFORCING AROUND MISC OR RECESSED MASONRY OPENING FOR ADDITIONAL REINFORCING AT MASONRY WALLS.

KEYPLAN



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revisions :

FOOTING & FOUNDATION Partial Plan 1

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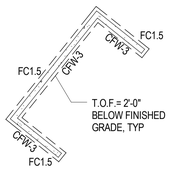
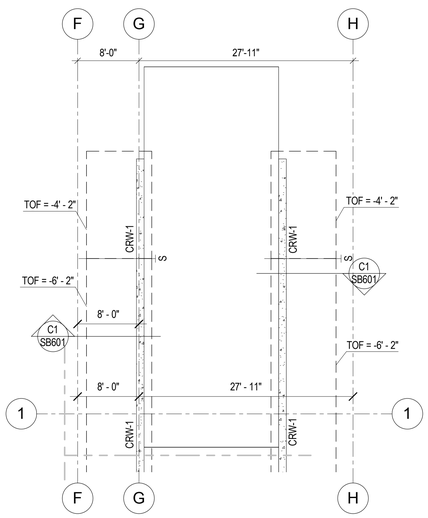


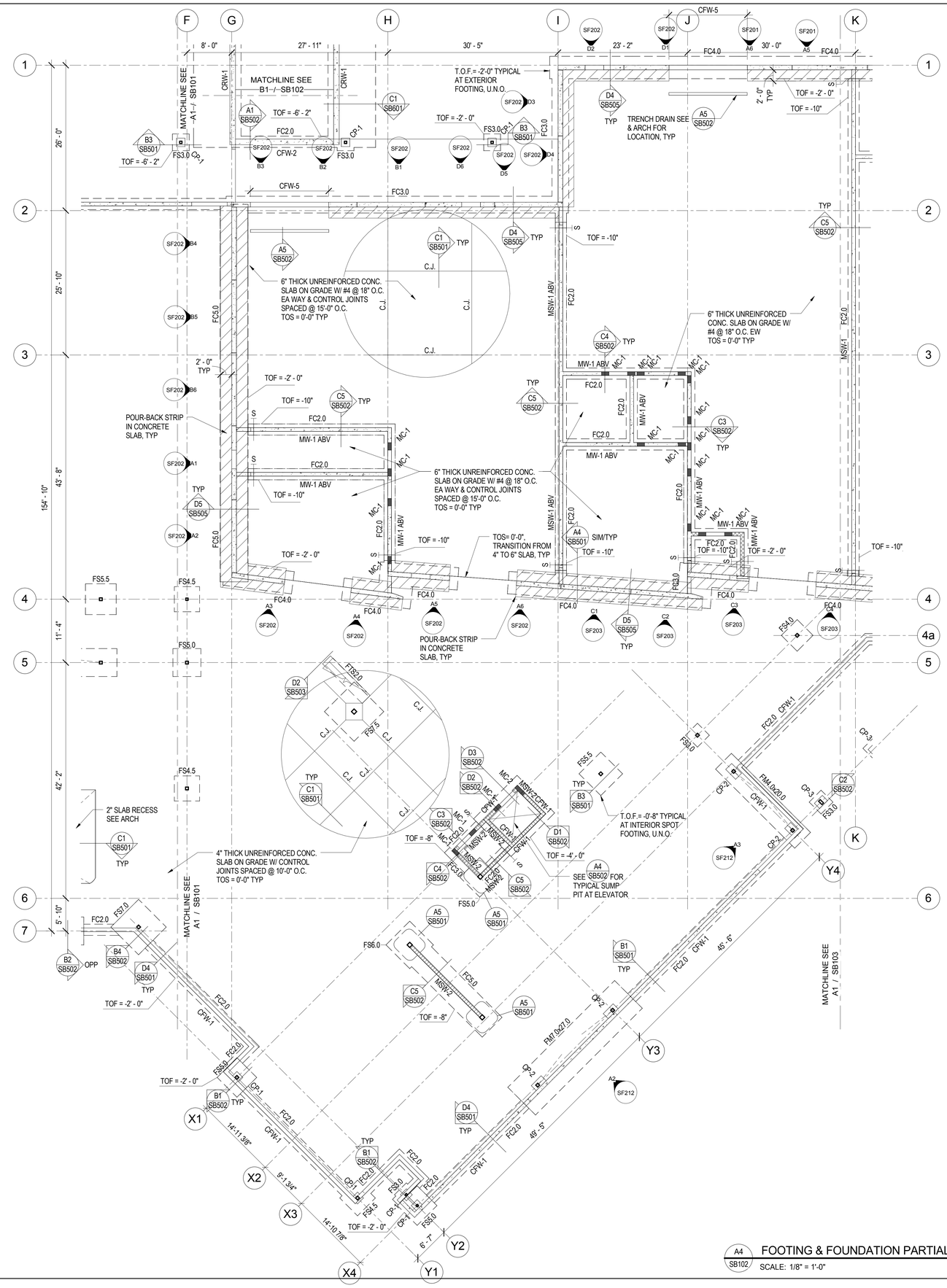
D1 / SB102 GARBAGE ENCLOSURE FOOTING & FOUNDATION PLAN

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



B1 / SB102 FOOTING & FOUNDATION PARTIAL PLAN 2

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



A4 / SB102 FOOTING & FOUNDATION PARTIAL PLAN 2

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

FOOTING & FOUNDATION PLAN LEGEND

- FOOTING STEP
- FOOTING - CONTINUOUS
- FOOTING - THICKENED SLAB
- FOOTING - SQUARE FOOTING - RECTANGULAR FOOTING - MAT FOOTING
- CONCRETE WALL, CONCRETE FOUNDATION WALL, OR CONCRETE RETAINING WALL
- CONCRETE FOUNDATION WALL - RECESSED
- CONCRETE PIER IN CONCRETE WALL. TOP OF PIER RECESSED 8" BELOW SLAB. TYP U.N.O.
- CONCRETE JAMB COLUMN POURED MONOLITHIC WITH CONCRETE WALL
- MASONRY WALL
- MASONRY WALL - RECESSED
- MASONRY COLUMN IN MASONRY WALL
- STEEL COLUMN - TUBE
- STEEL BRACED FRAME - ABOVE
- 0" CHANGE IN ELEVATION
- SLAB BLOCK-OUT AT COLUMN
- CJ / CJ SLAB CONTROL/CONSTRUCTION JOINT
- SPECIAL SLAB AREA
- RECESSED/DEPRESSED SLAB
- OPENING

FOOTING & FOUNDATION PLAN NOTES

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3. SEE ARCHITECTURAL DRAWINGS FOR SLAB DEPRESSIONS AND SLOPES TO DRAINS, ETC.

4. SEE ARCHITECTURAL, CIVIL AND LANDSCAPE DRAWINGS FOR ADDITIONAL EXTERIOR CONCRETE RETAINING AND / OR SITE WALLS NOT SHOWN ON THE STRUCTURAL DRAWINGS.

5. SEE TYPICAL STEP DETAIL AT CONTINUOUS FOOTING FOR CHANGES IN FOOTING ELEVATIONS.

6. SEE TYPICAL CONCRETE WALL REINFORCING DETAILS FOR REINFORCEMENT AT INTERSECTIONS CORNERS AND ENDS.

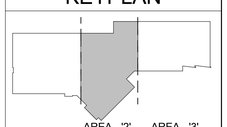
7. SEE TYPICAL CONCRETE SLAB ON GRADE DETAILS FOR CONSTRUCTION JOINTS, CONTROL JOINTS AND ADDITIONAL SLAB REINFORCING.

8. SEE TYPICAL CONCRETE SLAB ON GRADE PROFILE DETAIL FOR SUBGRADE REQUIREMENTS.

9. PROVIDE COMPACTED STRUCTURAL FILL UNDER ALL CONCRETE FOOTINGS PER TYPICAL COMPACTED STRUCTURAL FILL DETAIL.

10. SEE TYPICAL REINFORCING AROUND MISC OR RECESSED MASONRY OPENING FOR ADDITIONAL REINFORCING AT MASONRY WALLS.

KEYPLAN



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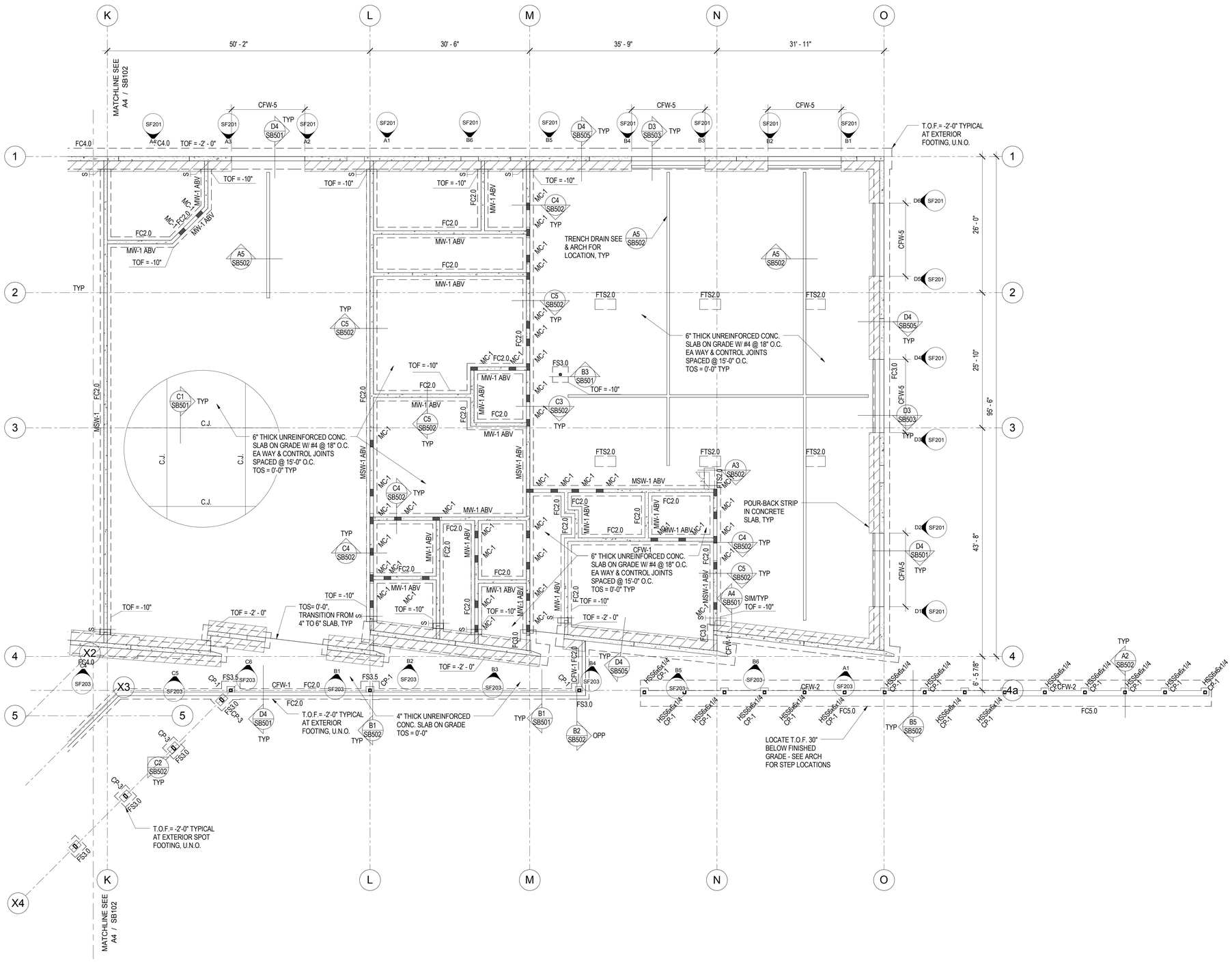


A1 / SB103 FOOTING & FOUNDATION PARTIAL PLAN 3

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

FOOTING & FOUNDATION PLAN LEGEND

- FOOTING STEP
- FOOTING - CONTINUOUS
- FOOTING - THICKENED SLAB
- FOOTING - SQUARE FOOTING - RECTANGULAR FOOTING - MAT FOOTING
- CONCRETE WALL, CONCRETE FOUNDATION WALL, OR CONCRETE RETAINING WALL
- CONCRETE FOUNDATION WALL - RECESSED
- CONCRETE PIER IN CONCRETE WALL. TOP OF PIER RECESSED 8" BELOW SLAB. TYP U.N.O.
- CONCRETE JAMB COLUMN POURED MONOLITHIC WITH CONCRETE WALL
- MASONRY WALL
- MASONRY WALL - RECESSED
- MASONRY COLUMN IN MASONRY WALL
- STEEL COLUMN - TUBE
- STEEL BRACED FRAME - ABOVE
- 0" CHANGE IN ELEVATION
- SLAB BLOCK-OUT AT COLUMN
- CJ SLAB CONTROL/CONSTRUCTION JOINT
- SPECIAL SLAB AREA
- RECESSED/DEPRESSED SLAB
- OPENING

FOOTING & FOUNDATION PLAN NOTES

1. SEE ARCHITECTURAL, CIVIL AND LANDSCAPE DRAWINGS FOR EXTERIOR CONCRETE WORK AT DOORS, SIDEWALKS ETC.

2. SEE ARCHITECTURAL DRAWINGS AND FINISH SCHEDULE FOR SLAB AREAS TO RECEIVE FLOOR TILE.

3. SEE ARCHITECTURAL DRAWINGS FOR SLAB DEPRESSIONS AND SLOPES TO DRAINS, ETC.

4. SEE ARCHITECTURAL, CIVIL AND LANDSCAPE DRAWINGS FOR ADDITIONAL EXTERIOR CONCRETE RETAINING AND / OR SITE WALLS NOT SHOWN ON THE STRUCTURAL DRAWINGS.

5. SEE TYPICAL STEP DETAIL AT CONTINUOUS FOOTING FOR CHANGES IN FOOTING ELEVATIONS.

6. SEE TYPICAL CONCRETE WALL REINFORCING DETAILS FOR REINFORCEMENT AT INTERSECTIONS CORNERS AND ENDS.

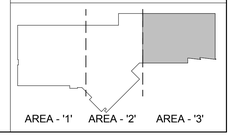
7. SEE TYPICAL CONCRETE SLAB ON GRADE DETAILS FOR CONSTRUCTION JOINTS, CONTROL JOINTS AND ADDITIONAL SLAB REINFORCING.

8. SEE TYPICAL CONCRETE SLAB ON GRADE PROFILE DETAIL FOR SUBGRADE REQUIREMENTS.

9. PROVIDE COMPACTED STRUCTURAL FILL UNDER ALL CONCRETE FOOTINGS PER TYPICAL COMPACTED STRUCTURAL FILL DETAIL.

10. SEE TYPICAL REINFORCING AROUND MISC OR RECESSED MASONRY OPENING FOR ADDITIONAL REINFORCING AT MASONRY WALLS.

KEYPLAN



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FOOTING & FOUNDATION Partial Plan 3

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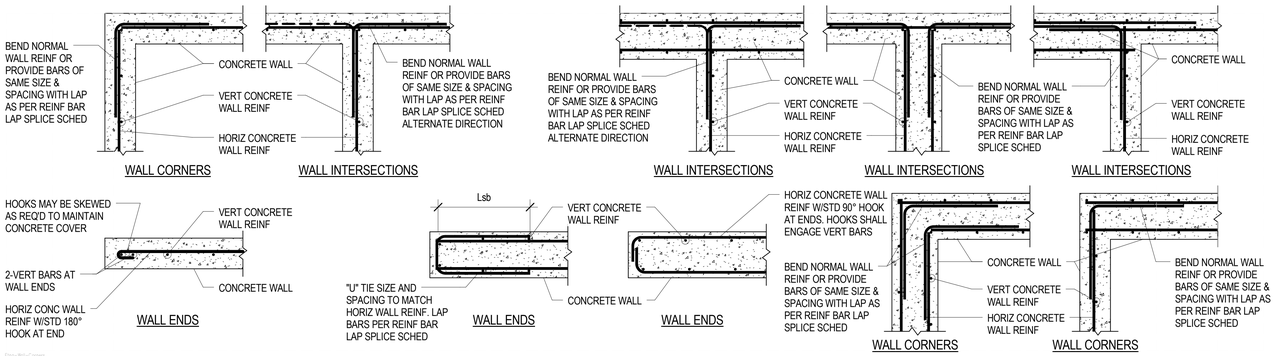
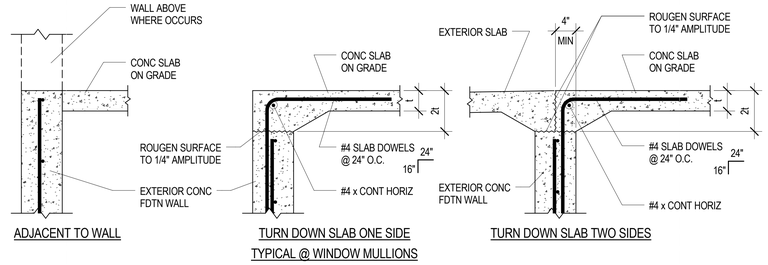


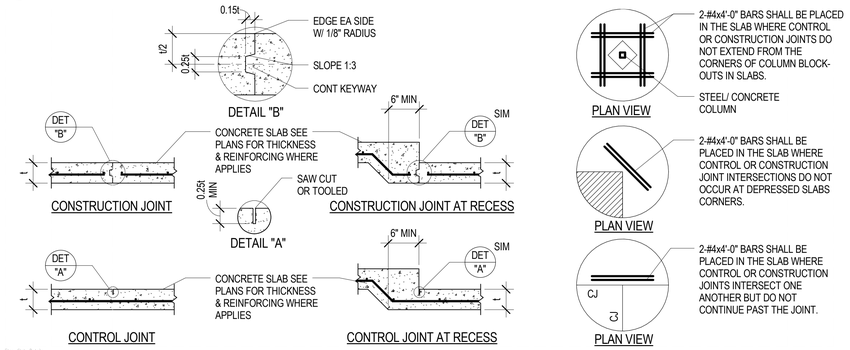
D1 SB501 TYPICAL CONCRETE WALL INTERSECTIONS AND ENDS (PLAN VIEWS)

NO SCALE



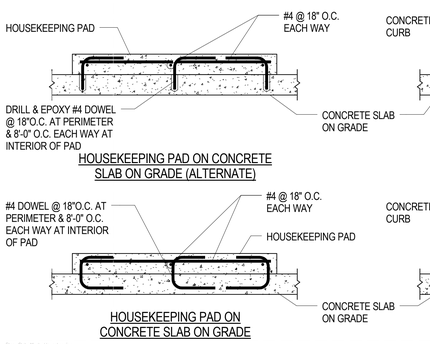
D4 SB501 TYPICAL CONCRETE SLAB ON GRADE TO EXTERIOR CONCRETE FOUNDATION WALL

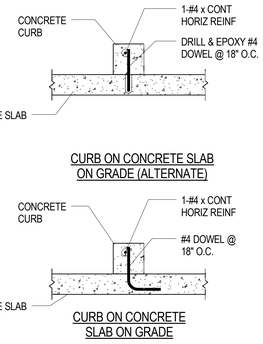
NO SCALE



C1 SB501 TYPICAL CONCRETE SLAB ON GRADE DETAILS

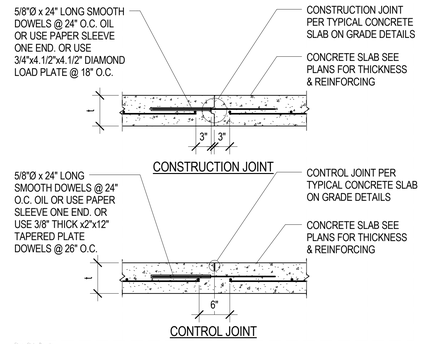
NO SCALE





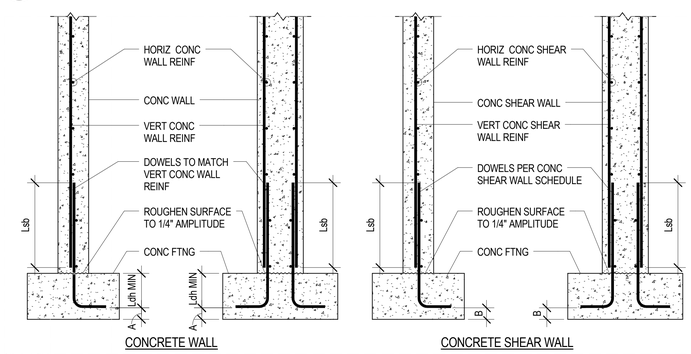
C3 SB501 TYPICAL HOUSEKEEPING PAD & CURB DETAILS

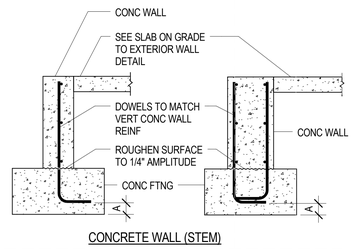
NO SCALE



C4 SB501 TYPICAL REINFORCED CONTROL JOINTS IN CONCRETE SLAB ON GRADE

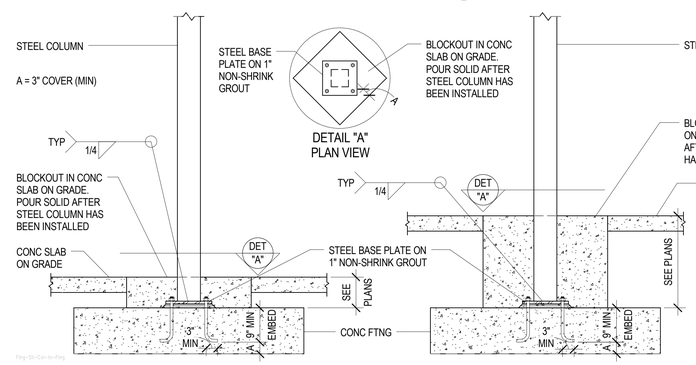
NO SCALE

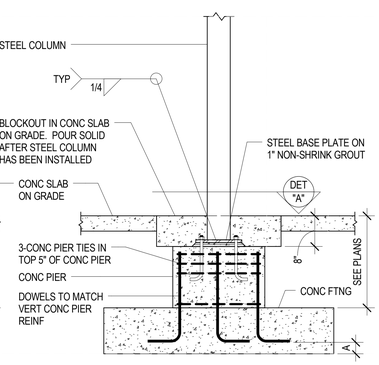




B1 SB501 TYPICAL CONCRETE WALL CONNECTION TO CONCRETE FOOTING

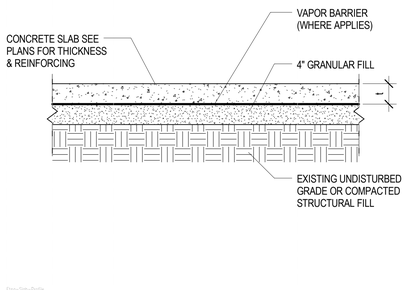
NO SCALE





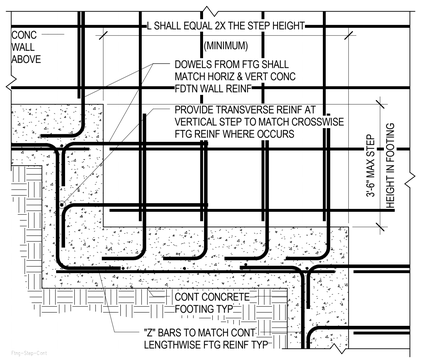
B3 SB501 TYPICAL STEEL COLUMN CONNECTION TO CONCRETE FOOTING/CONCRETE PIER

NO SCALE



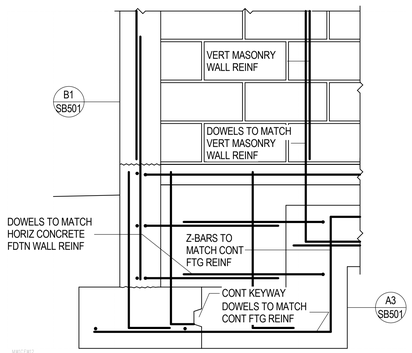
A2 SB501 TYPICAL CONCRETE SLAB ON GRADE PROFILE

NO SCALE



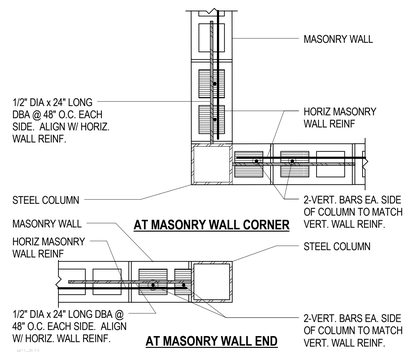
A3 SB501 TYPICAL STEP DETAIL AT CONTINUOUS FOOTING

NO SCALE



A4 SB501 TYP FOOTING STEP FROM EXTERIOR FDTN WALL TO INTERIOR WALL

NO SCALE



A5 SB501 TYPICAL STEEL COLUMN IN MASONRY WALL

NO SCALE

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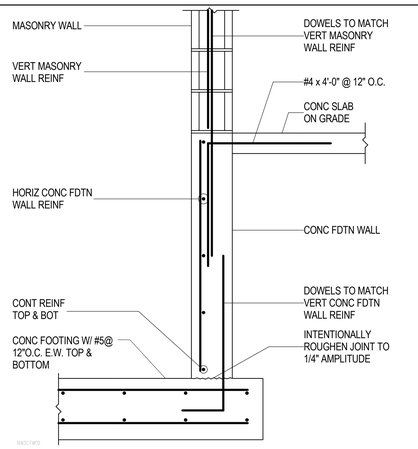
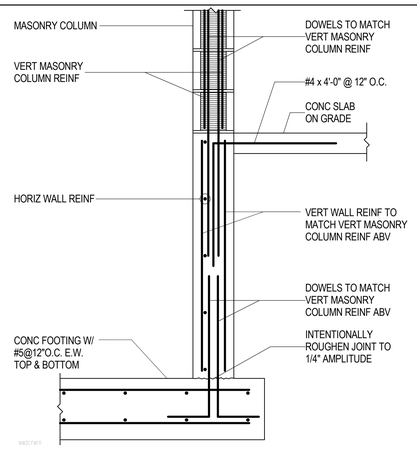
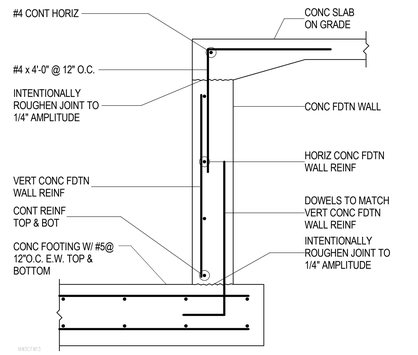


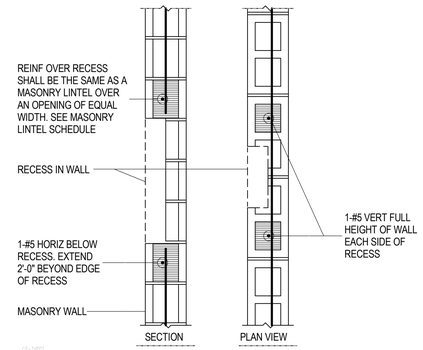
D1 / SB502 TYP MASONRY WALL ON CONCRETE FDTN WALL AT ELEVATOR PIT
NO SCALE



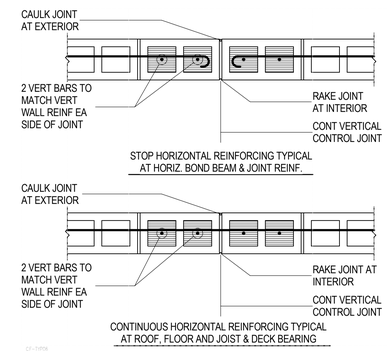
D2 / SB502 TYP MASONRY COLUMN ON CONCRETE FOUNDATION WALL AT ELEVATOR PIT
NO SCALE



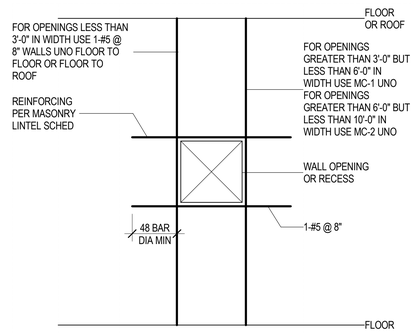
D3 / SB502 TYPICAL ELEVATOR PIT DETAIL
NO SCALE



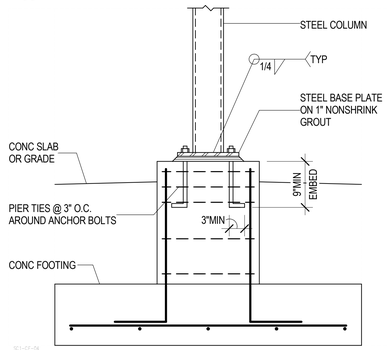
D4 / SB502 TYPICAL RECESS IN 8" MASONRY WALL
NO SCALE



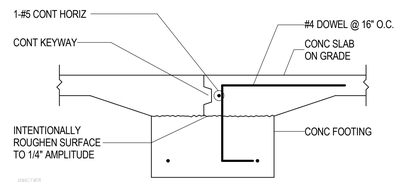
D5 / SB502 TYPICAL CONTROL JOINTS IN 8" MASONRY WALLS
NO SCALE



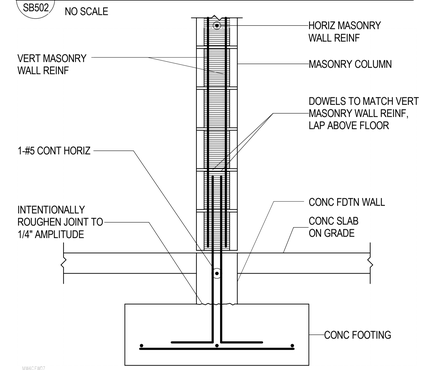
C1 / SB502 TYPICAL REINFORCING AROUND MISC OR RECESSED MASONRY OPENINGS
NO SCALE



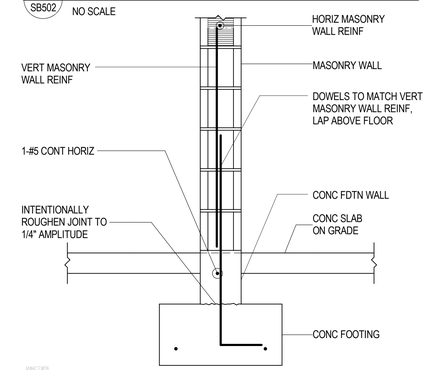
C2 / SB502 TYPICAL STEEL COLUMN BASE AT CONCRETE PIER
NO SCALE



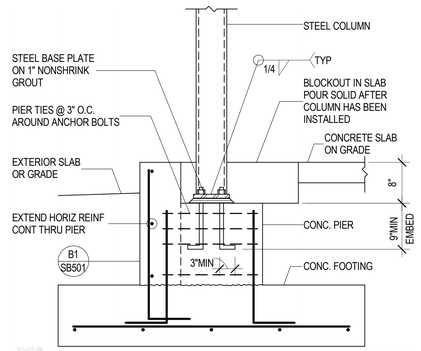
C3 / SB502 TYPICAL DOOR OPENING AT INTERIOR
NO SCALE



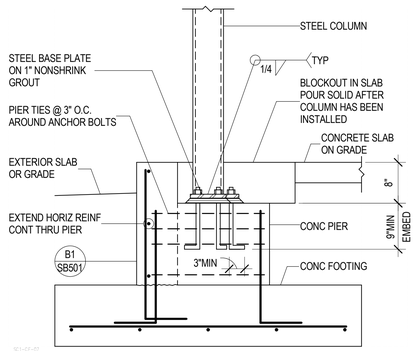
C4 / SB502 TYP INTERIOR MASONRY COLUMN ON CONCRETE CURB
NO SCALE



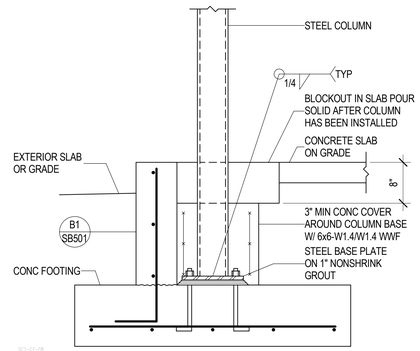
C5 / SB502 TYP INTERIOR MASONRY WALL ON CONCRETE CURB WALL
NO SCALE



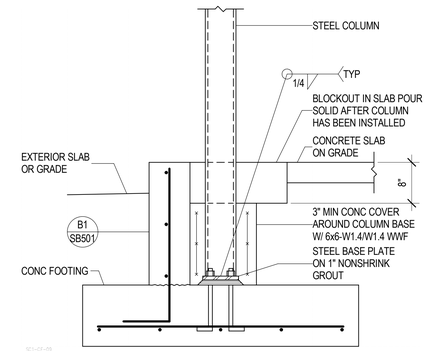
B1 / SB502 TYP STEEL COLUMN BASE AT CONC PIER IN FOUNDATION WALL
NO SCALE



B2 / SB502 TYP STEEL COLUMN BASE AT CONC PIER IN FOUNDATION WALL AT CORNER
NO SCALE



B3 / SB502 TYP STEEL COLUMN ON CONC FTG AT CONC FOUNDATION WALL
NO SCALE



B4 / SB502 TYP STEEL COLUMN ON CONC FTG AT CONC FOUNDATION WALL
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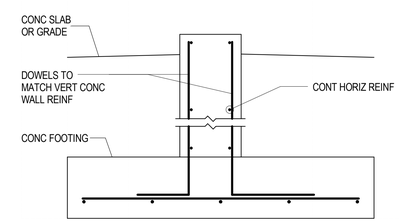

B5 / SB502 TYPICAL SITE WALL AT CONC FOOTING
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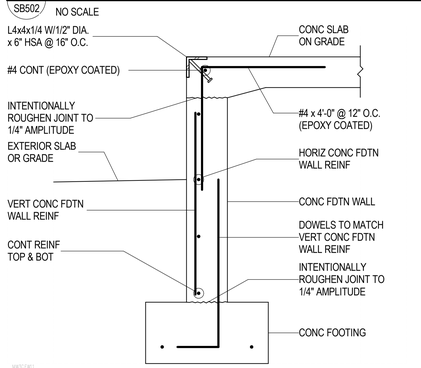
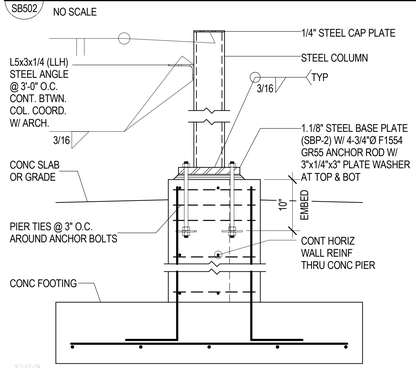
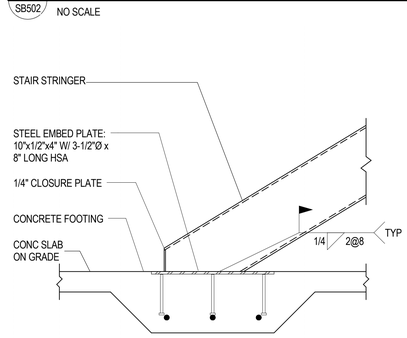


A1 / SB502 TYPICAL CONCRETE FOUNDATION WALL
NO SCALE



A2 / SB502 TYPICAL STEEL COLUMN BASE AT CONCRETE PIER AT SITE WALL
NO SCALE



A3 / SB502 TYPICAL STAIR STRINGER CONNECTION TO THICKEND SLAB
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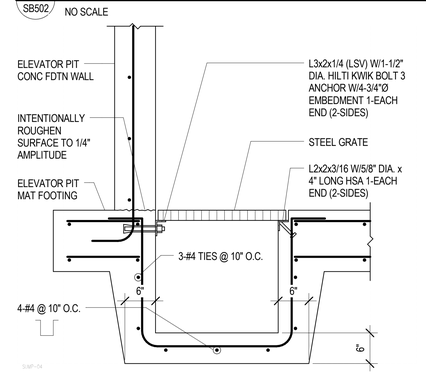

A4 / SB502 TYPICAL SUMP PIT AT ELEVATOR WALL
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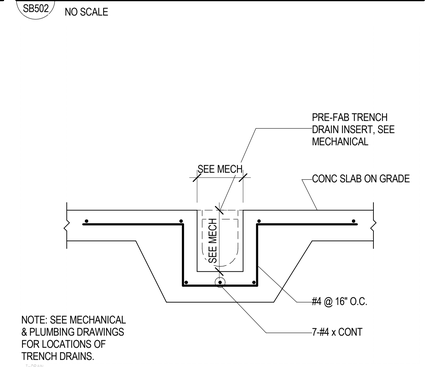

A5 / SB502 TYPICAL TRENCH DRAIN IN CONCRETE SLAB ON GRADE
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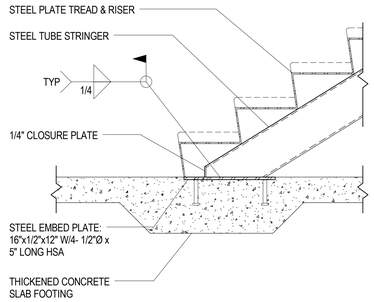
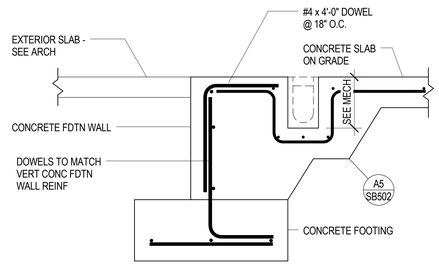


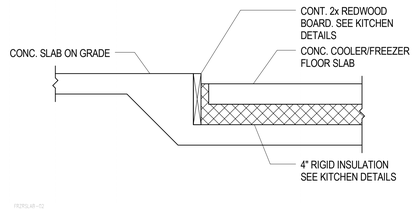
D2 / SB503 STAIR STRINGER BASE CONNECTION

NO SCALE



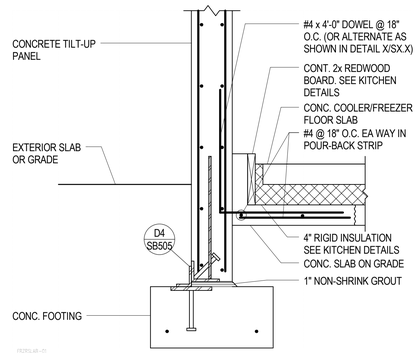
D3 / SB503 TRENCH DRAIN AT OVERHEAD DOOR OPENING

NO SCALE



D4 / SB503 TYPICAL SLAB DETAIL AT FREEZER/COOLER

NO SCALE



D5 / SB503 CONCRETE FOUNDATION WALL DETAIL AT FREEZER/COOLER

NO SCALE

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SB503

100% Construction Documents

CONCRETE TILT-UP PANEL REINFORCING SCHEDULE				
PANEL MARK	THICKNESS	VERT REINF	HORIZ REINF	CONC PSI
TYPICAL	10"	#5@12"O.C.,E.F.	#5@12"O.C.,E.F.	4500 PSI
TP-1	8"	#5@15"O.C.	#4@16"O.C.	4500 PSI

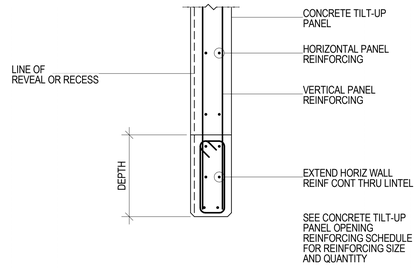
NOTE: PANEL THICKNESS IS TOTAL PANEL THICKNESS, INCLUDING THE DIMENSION OF ANY REVEALS AND/OR RECESSES.
1. SEE DETAIL A1/SB504 FOR REINFORCING PLACEMENT DIAGRAMS.
2. SEE CONCRETE TILT-UP PANEL ELEVATIONS FOR ADDITIONAL REINFORCEMENT.

D1 / SB504 CONCRETE TILT-UP PANEL REINFORCING SCHEDULE
NO SCALE

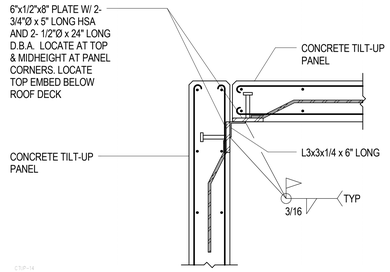
CONCRETE TILT-UP PANEL OPENING REINFORCING SCHEDULE					
MARK	SPAN	LINTEL REINFORCING			NOTES
		DEPTH	HORIZONTAL REINFORCING	STIRRUPS	
TL-1	UP TO 4'-5"	18"	2-#7 T&B	3@8"	
TL-2	4'-5" TO 6'-0"	24"	2-#7 T&B	3@8"	
TL-3	6'-0" TO 7'-0"	36"	2-#7 T&B	3@8"	

NOTES:
1. JAMB REINFORCING, INCLUDING TIES, SHALL EXTEND THE FULL HEIGHT OF THE PANEL EXCEPT FOR OPENINGS LESS THAN 3'-1" WHICH SHALL BE REINFORCED PER DETAIL C2/SB502. SPACE TIES @ 32" O.C. FROM 2'-0" ABOVE OPENING TO THE TOP OF THE PANEL TYPICAL. USE SINGLE LAYER JAMB REINFORCING WHENEVER POSSIBLE.
2. HALF OF THE VERT JAMB REINFORCING TO BE PLACED ON EACH FACE OF THE PANEL WHEN DOUBLE LAYER JAMB REINFORCING IS USED.
3. EXTEND LINTEL REINFORCING BEYOND EDGE OF THE OPENING 4'-0" MINIMUM. WHERE NOT POSSIBLE, EXTEND TO THE EDGE OF PANEL AND TERMINATE WITH A STANDARD 90° HOOK.
4. SEE ARCHITECTURAL FOR PANEL ELEVATIONS AND OPENING LOCATIONS.
5. SEE DETAILS C1 & D5/SB504 FOR REINFORCING PLACEMENT DIAGRAMS (LINTEL & JAMB COLUMN)

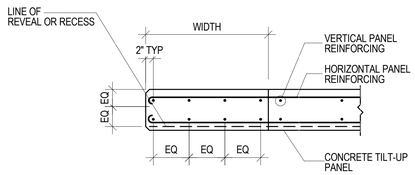
D2 / SB504 CONCRETE TILT-UP OPENING REINFORCING SCHEDULE
NO SCALE



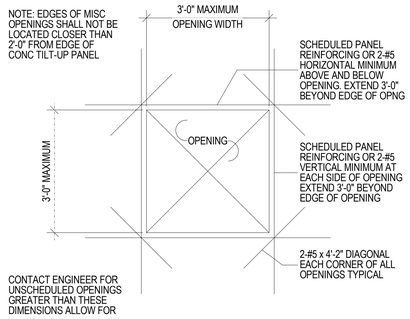
D5 / SB504 TYPICAL LINTEL DETAILS
NO SCALE



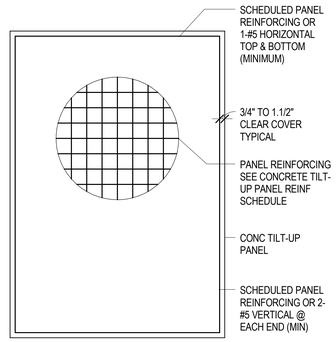
B5 / SB504 TYPICAL CONCRETE TILT-UP PANEL CORNER CONNECTION DETAIL - PLAN
NO SCALE



C1 / SB504 TYPICAL JAMB DETAILS
NO SCALE



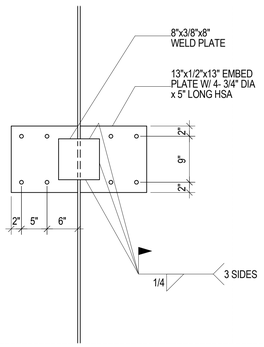
C2 / SB504 TYPICAL MINIMUM REINFORCING AROUND MISC. OPENINGS THRU CONCRETE TILT-UP PANELS
NO SCALE



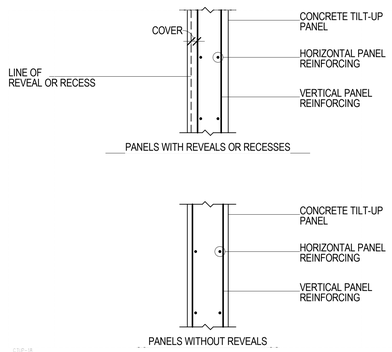
C3 / SB504 TYPICAL CONCRETE TILT-UP PANEL ELEVATION
NO SCALE

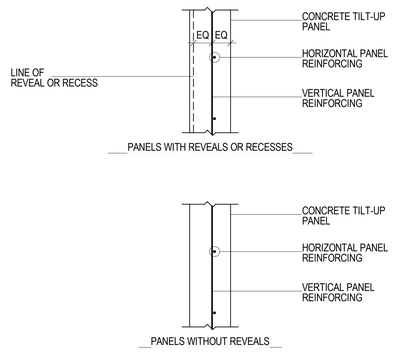
CONCRETE TILT PANEL JAMB REINFORCING SCHEDULE				
JAMB MARK	PANEL #	LENGTH	VERTICAL REINFORCEMENT	COMMENTS
TJ-1	1	63"	10 - #6	
TJ-2	2	97"	12 - #5	
TJ-3	3	75"	11 - #6	
TJ-4	4	75"	8 - #6	
TJ-5	5	78"	8 - #6	
TJ-6	6	60"	10 - #6	
TJ-7	7	20"	6 - #6	
TJ-8	7	36"	7 - #8	
TJ-9	8	72"	9 - #5	
TJ-10	9	72"	9 - #5	
TJ-11	10	96"	11 - #5	
TJ-12	12	73"	6 - #5	
TJ-13	12	73"	6 - #5	
TJ-14	13	147"	13 - #5	
TJ-15	14	96"	8 - #5	
TJ-16	15	96"	8 - #5	
TJ-17	18	96"	8 - #5	
TJ-18	19	96"	9 - #5	
TJ-19	20	44"	4 - #5	
TJ-20	20	57"	5 - #5	
TJ-21	24	30"	4 - #5	
TJ-22	24	78"	7 - #5	
TJ-23	26	60"	7 - #6	
TJ-24	27	40"	6 - #7	
TJ-25	30	84"	12 - #5	
TJ-26	31	38"	5 - #5	
TJ-27	31	44"	6 - #5	
TJ-28	32	66"	8 - #5	
TJ-29	33	114"	10 - #5	
TJ-30	34	86"	10 - #5	
TJ-31	35	50"	5 - #5	
TJ-32	35	42"	5 - #6	
TJ-33	36	95"	9 - #5	
TJ-34	39	50"	5 - #5	
TJ-35	39	42"	6 - #8	
TJ-36	40	138"	14 - #5	
TJ-37	41	184"	16 - #5	
TJ-38	42	51"	5 - #5	
TJ-39	42	42"	6 - #8	
TJ-40	43	106"	14 - #5	
TJ-41	45	173"	15 - #5	
TJ-42	46	102"	13 - #6	
TJ-43	47	120"	14 - #5	
TJ-44	48	136"	14 - #5	
TJ-45	49	107"	14 - #5	

NOTES:
1. JAMB REINFORCING, INCLUDING TIES, SHALL EXTEND THE FULL HEIGHT OF THE PANEL EXCEPT FOR OPENINGS LESS THAN 3'-1" WHICH SHALL BE REINFORCED PER DETAIL C2/SB504. SPACE TIES @ 32" O.C. FROM 2'-0" ABOVE OPENING TO THE TOP OF THE PANEL TYPICAL. USE SINGLE LAYER JAMB REINFORCING WHENEVER POSSIBLE.
2. HALF OF THE VERT JAMB REINFORCING TO BE PLACED ON EACH FACE OF THE PANEL WHEN DOUBLE LAYER JAMB REINFORCING IS USED.
3. IF THE LEG OF THE CONCRETE TILT-UP PANEL IS NO MORE THAN 6" WIDER THAN THE SCHEDULED JAMB WIDTH, THEN REVISE THE WIDTH OF THE SCHEDULED JAMB TO FIT WITHIN THE LEG OF THE CONCRETE TILT-UP PANEL.

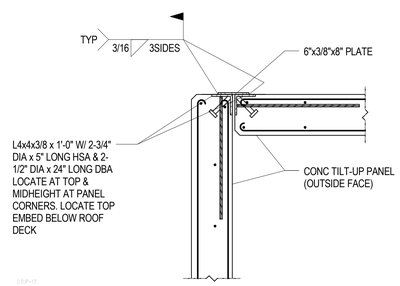


B1 / SB504 TYPICAL CONCRETE TILT-UP PANEL CONNECTION DETAIL
NO SCALE





B2 / SB504 TYPICAL PANEL REINFORCING PLACEMENT DIAGRAMS
NO SCALE



A3 / SB504 TYPICAL CONCRETE TILT-UP PANEL CORNER CONNECTION DETAIL - PLAN
NO SCALE

LICENSED CERTIFIED STRUCTURAL ENGINEER NO. 170778 MARK R. HARRIS UTAH

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REAVELEY ENGINEERS + ASSOCIATES
Consulting Structural Engineers

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TOOELE APPLIED TECHNOLOGY COLLEGE - NEW BUILDING

88 South Tooele Blvd
Tooele, UT 84074

project#: 11.0420
date: 1/10/12

revisions :

TYP TILT-UP FOOTING & FDTN DETAILS

sheet:

SB504

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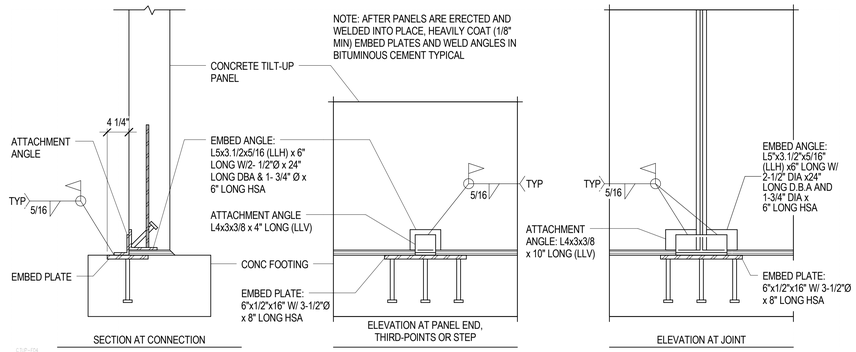
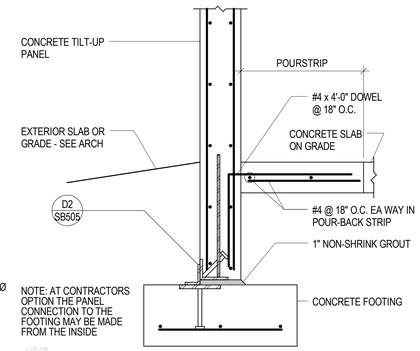


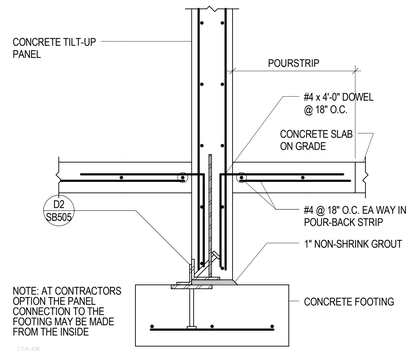
D2 / SB505 TYPICAL CONCRETE TILT-UP PANEL CONNECTIONS TO FOOTING

NO SCALE



D4 / SB505 TYPICAL CONCRETE TILT-UP PANEL CONNECTION TO FOOTING

NO SCALE



D5 / SB505 TYPICAL CONCRETE TILT-UP PANEL CONNECTION TO FOOTING

NO SCALE

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revisions :

TILT-UP PANEL DETAILS

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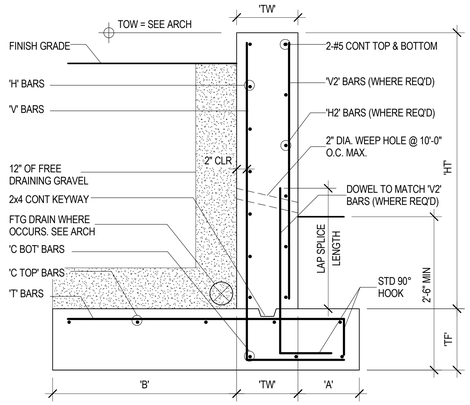


CONCRETE RETAINING WALL SCHEDULE																		
MARK	'HT'	'A'	'B'	'TW'	'TF'	'V' BARS		'H' BARS		'V2' BARS		'H2' BARS		'T' BARS		'C TOP' BARS		'C BOT' BARS	
						SIZE	SPACE	SIZE	SPACE	SIZE	SPACE	SIZE	SPACE	SIZE	SPACE	SIZE	SPACE	SIZE	SPACE
CRW-1	7'-0"	1'-0"	6'-6"	1'-0"	1'-4"	#5	12"	#4	12"	#5	12"	#4	12"	#5	10"	#5	9.6"	#5	18"

NOTES:
1. 'V' BARS SHALL NOT BE SPLICED BELOW MID-HEIGHT OF WALL
2. FOR WALLS WITH 'HT' OF 9'-0" & GREATER. ONE HALF OF THE 'V' BARS CAN BE DISCONTIUED FROM MID-HEIGHT TO TOP OF WALL.

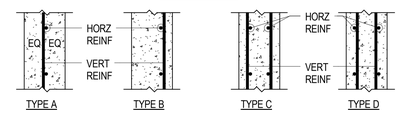
C1 / SB601 TYPICAL CONCRETE RETAINING WALL SCHEDULE AND DETAIL

NO SCALE

CONCRETE FOUNDATION WALL SCHEDULE					
MARK	THICK	VERTICAL REINFORCING	HORIZONTAL REINFORCING	T & B HORIZ. BARS	PLACEMENT
CFW-1	8"	#5 @ 12" O.C.	#4 @ 13" O.C.	1-#5	TYPE A
CFW-2	1' - 0"	#4 @ 13" O.C., E.F.	#4 @ 18" O.C., E.F.	2-#4	TYPE D
CFW-3	8"	#4 @ 12" O.C.	#4 @ 12" O.C.	1-#4	TYPE A
CFW-4	1' - 3"	#5 @ 12" O.C., E.F.	#4 @ 12" O.C., E.F.	2-#5	TYPE C

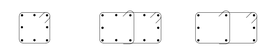
NOTES:
1. HORIZONTAL WALL REINFORCING SHALL BE CONTINUOUS THRU CONSTRUCTION & CONTROL JOINTS.
2. SPLICES IN HORIZONTAL WALL REINFORCING SHALL BE TYPE Lsb, STAGGERED SUCH THAT SPLICES DO NOT OVERLAP. SPLICES IN TWO CURTAINS SHALL NOT OCCUR IN THE SAME LOCATION.

PLACEMENT TYPE



E.F. = EACH FACE
O.F. = OUTSIDE FACE (AGAINST SOIL)
I.F. = INSIDE FACE
3L = THREE LAYERS

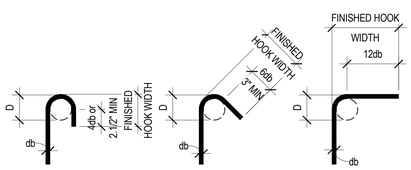
CONCRETE PIER SCHEDULE					
MARK	DIMENSIONS		REINFORCING		REMARKS
	DEPTH	WIDTH	VERTICAL	TIES	
CP-1	1' - 6"	1' - 6"	8-#6	#3 @ 12" O.C.	
CP-2	1' - 6"	2' - 6"	12-#9	#3 @ 18" O.C.	
CP-3	1' - 4"	2' - 0"	8-#8	#3 @ 12" O.C.	



CP-1 CP-2 CP-3

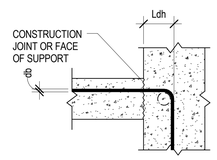
CONCRETE FOOTING SCHEDULE												
MARK	WIDTH	LENGTH	THICK	CROSSWISE REINFORCING				LENGTHWISE REINFORCING				REMARKS
				NO.	SIZE	LENGTH	SPACE	NO.	SIZE	LENGTH	SPACE	
FC1.5	1' - 6"	CONT.	1' - 0"									
FC2.0	2' - 0"	CONT.	1' - 0"	-	NONE	REQ'D	-	3	#4	CONT.	9"	
FC3.0	3' - 0"	CONT.	1' - 0"	-	#5	2'-6"	14"	3	#5	CONT.	15"	
FC4.0	4' - 0"	CONT.	1' - 0"	-	#5	3'-6"	14"	4	#5	CONT.	14"	
FC5.0	5' - 0"	CONT.	1' - 3"	-	#5	4'-6"	12"	5	#5	CONT.	13.5"	
FTS2.0	2' - 0"											
FS3.0	3' - 0"	3' 0"	1' - 0"	4	#4	2' 6"	10"	4	#4	2' 6"	10"	
FS3.5	3' - 6"	3' 6"	1' - 0"	5	#4	3' 0"	9"	5	#4	3' 0"	9"	
FS4.0	4' - 0"	4' 0"	1' - 0"	6	#4	3' 6"	8.4"	6	#4	3' 6"	8.4"	
FS4.5	4' - 6"	4' 6"	1' - 0"	7	#4	4' 0"	8"	7	#4	4' 0"	8"	
FS5.0	5' - 0"	5' 0"	1' - 1"	8	#4	4' 6"	7.7"	8	#4	4' 6"	7.7"	
FS5.5	5' - 6"	5' 6"	1' - 2"	7	#5	5' 0"	10"	7	#5	5' 0"	10"	
FS6.0	6' - 0"	6' 0"	1' - 3"	8	#5	5' 6"	9.5"	8	#5	5' 6"	9.5"	
FS6.5	6' - 6"	6' 6"	1' - 5"	6	#6	6' 0"	14.4"	6	#6	6' 0"	14.4"	
FS7.0	7' - 0"	7' 0"	1' - 6"	7	#6	6' 6"	13"	7	#6	6' 6"	13"	
FS7.5	7' - 6"	7' 6"	1' - 9"	6	#7	7' 0"	16.8"	6	#7	7' 0"	16.8"	
FS8.0	8' - 0"	8' 0"	1' - 10"	9	#6	7' 6"	11.25"	9	#6	7' 6"	11.25"	
FM3.0x30.0	3' - 0"	30'-0"	1' - 2"	21	#5	2'-6"	18"	3	#5	CONT.	18"	
				27	#5	2'-6"	14"	3	#5	CONT.	15"	
FM4.0x20.0	4' - 0"	20'-0"	1' - 2"	14	#5	3'-6"	18"	4	#5	CONT.	18"	
				18	#5	3'-6"	14"	4	#5	CONT.	15"	
FM4.0x41.0	4' - 0"	41'-0"	1' - 2"	28	#5	3'-6"	18"	4	#5	CONT.	18"	
				36	#5	3'-6"	14"	4	#5	CONT.	14"	
FM5.0x32.0	5' - 0"	32'-0"	1' - 2"	22	#5	4'-6"	18"	4	#5	CONT.	18"	
				27	#5	4'-6"	15"	6	#5	CONT.	12"	
FM6.0x28.0	6' - 0"	28'-0"	1' - 2"	20	#5	5'-6"	18"	5	#5	CONT.	18"	
				25	#5	5'-6"	14"	9	#5	CONT.	9"	
FM6.0x29.0	6' - 0"	29'-0"	1' - 2"	20	#5	5'-6"	18"	5	#5	CONT.	18"	
				26	#5	5'-6"	14"	11	#5	CONT.	7"	
FM7.0x27.0	7' - 0"	27'-0"	1' - 2"	19	#5	6'-6"	18"	6	#5	CONT.	18"	
				24	#5	6'-6"	14"	13	#5	CONT.	7"	
FM7.5x30.0	7' - 6"	30'-0"	1' - 2"	21	#5	7'-0"	18"	6	#5	CONT.	18"	
				27	#5	7'-0"	14"	13	#5	CONT.	7"	

1. PLACE ALL FOOTING REINFORCING IN BOTTOM OF FOOTING WITH 3" CLEAR CONCRETE COVER UNLESS NOTED OTHERWISE.
2. TOP REINFORCING, WHERE SPECIFIED, SHALL BE PLACED IN THE TOP OF THE FOOTING WITH 2" CLEAR CONCRETE COVER.
3. SPOT FOOTINGS SHALL BE CENTERED UNDER COLUMNS AND CONTINUOUS FOOTINGS SHALL BE CENTERED UNDER WALLS, UNLESS NOTED OTHERWISE.
4. ALL FOOTINGS SHALL BE FORMED. FOOTINGS SHALL NOT BE EARTH FORMED OR OVERSIZED WITHOUT WRITTEN PERMISSION FROM THE STRUCTURAL ENGINEER.



180° HOOK 135° HOOK 90° HOOK

END HOOK SCHEDULE				
BAR SIZE	D	FINISHED HOOK WIDTH		
		180° HOOK	135° HOOK	90° HOOK
#3	2.1/4"	3"	3"	6"
#4	3"	4"	3"	8"
#5	3.1/4"	5"	3.3/4"	10"
#6	4.1/2"	6"	4.1/2"	12"
#7	5.1/4"	7"	5.1/4"	14"
#8	6"	8"	6"	16"
#9	9.1/2"	11.3/4"	--	19"
#10	10.3/4"	13.1/4"	--	22"
#11	12"	14.3/4"	--	24"
#14	18.1/4"	21.3/4"	--	31"
#18	24"	28.1/2"	--	41"



TENSION HOOK DEVELOPMENT LENGTH (Ldh)					
BAR SIZE	NORMAL WEIGHT CONCRETE, f'c = PSI				
	3,000	4,000	4,500	5,000	6,000
#3	6"	6"	6"	6"	6"
#4	8"	7"	7"	7"	7"
#5	10"	9"	8"	8"	7"
#6	12"	10"	10"	9"	8"
#7	14"	12"	11"	11"	10"
#8	16"	14"	13"	12"	11"
#9	18"	15"	14"	14"	13"
#10	20"	17"	16"	15"	14"
#11	22"	19"	18"	17"	16"
#14	37"	32"	31"	29"	27"
#18	50"	43"	41"	39"	35"

NOTES:
1. VALUES HERE VALID FOR ALL CASES IF:
   SIDE COVER ≥ 2.1/2"
   END COVER ≥ 2"

2. MULTIPLY VALUES IN SCHEDULE BY 1.2 FOR LIGHTWEIGHT CONCRETE

3. MULTIPLY VALUES IN SCHEDULE BY 1.2 FOR USE WITH EPOXY COATED REBAR

CONCRETE REINFORCING BAR DEVELOPMENT AND LAP SPLICE LENGTH SCHEDULE																									
BAR SIZE	f'c = 3000 PSI				f'c = 4000 PSI				f'c = 4500 PSI				f'c = 5000 PSI				f'c = 6000 PSI				f'c = ALL	
	Ld	Lt	Lsb	Lsbt	Ld	Lt	Lsb	Lsbt	Ld	Lt	Lsb	Lsbt	Ld	Lt	Lsb	Lsbt	Ld	Lt	Lsb	Lsbt	Ldc	Lsc
#3	17"	22"	22"	28"	15"	19"	19"	25"	14"	18"	18"	23"	13"	17"	17"	22"	12"	16"	16"	20"	8"	12"
#4	22"	29"	29"	38"	19"	25"	25"	33"	18"	24"	24"	31"	17"	23"	23"	29"	16"	21"	21"	27"	10"	15"
#5	28"	36"	36"	47"	24"	31"	31"	41"	23"	30"	30"	38"	22"	28"	28"	36"	20"	26"	26"	33"	12"	19"
#6	33"	43"	43"	56"	29"	37"	37"	49"	27"	35"	35"	46"	26"	34"	34"	44"	24"	31"	31"	40"	15"	23"
#7	48"	63"	63"	81"	42"	54"	54"	71"	40"	51"	51"	67"	38"	49"	49"	63"	34"	45"	45"	58"	17"	27"
#8	55"	72"	72"	93"	48"	62"	62"	81"	45"	59"	59"	76"	43"	56"	56"	72"	39"	51"	51"	66"	19"	30"
#9	62"	81"	81"	105"	54"	70"	70"	91"	51"	66"	66"	86"	48"	63"	63"	81"	44"	57"	57"	74"	22"	34"
#10	70"	91"	91"	118"	61"	79"	79"	102"	57"	74"	74"	96"	54"	71"	71"	92"	50"	64"	64"	84"	24"	39"
#11	78"	101"	101"	131"	67"	87"	87"	114"	64"	82"	82"	107"	60"	78"	78"	102"	55"	71"	71"	93"	27"	43"
#14	93"	121"	NA	NA	81"	105"	NA	NA	76"	99"	NA	NA	72"	94"	NA	NA	66"	86"	NA	NA	33"	NA
#18	124"	161"	NA	NA	108"	140"	NA	NA	101"	132"	NA	NA	96"	125"	NA	NA	88"	114"	NA	NA	43"	NA

NOTES:
1. DEFINITIONS:
   Ld: TENSION DEVELOPMENT LENGTH FOR REINFORCEMENT SATISFYING THE FOLLOWING CONDITIONS:
   SLABS AND WALLS: CLEAR SPACING > 2db AND CONCRETE CLEAR COVER > db
   BEAMS AND COLUMNS: CLEAR COVER SPACING > db AND CONCRETE CLEAR COVER > db
   Lt: DEVELOPMENT LENGTH FOR TOP BARS IN TENSION
   Lsb: TENSION LAP SPLICE LENGTH FOR OTHER THAN TOP BARS (CLASS B)
   Lsbt: TENSION LAP SPLICE LENGTH OF TOP BARS.
   Ldc: DEVELOPMENT LENGTH FOR BARS IN COMPRESSION
   Lsc: TIED COLUMN LAP SPLICE IN COMPRESSION
   db: NOMINAL BAR DIAMETER (INCHES)
   TOP BARS: HORIZONTAL BEAM REINFORCEMENT WITH MORE THAN 12 INCHES OF CONCRETE CAST BELOW

2. MULTIPLY VALUES IN SCHEDULE BY 1.5 IF CLEAR SPACING OR CONCRETE COVER DO NOT MEET REQUIREMENTS FOR Ld IN NOTE 1.

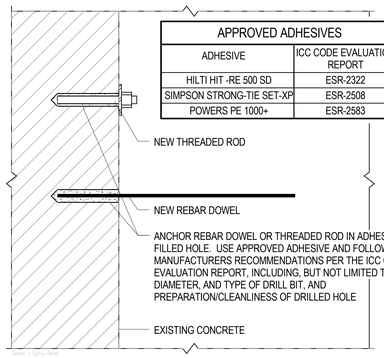
3. MULTIPLY VALUES IN SCHEDULE BY 1.3 FOR USE IN LIGHTWEIGHT AGGREGATE CONCRETE.

4. FOR EPOXY COATED BAR: MULTIPLY VALUES IN SCHEDULE BY 1.5 FOR BARS WITH CLEAR COVER < 3db OR CLEAR SPACING < 6db. OTHERWISE MULTIPLY VALUES BY 1.2.

5. a. FOR BUNDLED BARS OF THREE OR LESS MULTIPLY LENGTHS BY 1.2.
   b. FOR BUNDLED BARS OF FOUR OR MORE MULTIPLY LENGTHS BY 1.33.
   c. INDIVIDUAL BAR SPLICES WITHIN A BUNDLE SHALL NOT OVERLAP. ENTIRE BUNDLES SHALL NOT BE LAP SPLICED.

6. SCHEDULE LENGTHS ARE FOR fy=60ksi REINFORCING, MULTIPLY LENGTHS BY 1.25 FOR fy=75ksi REINFORCING.

7. LAP SPLICES ARE NOT PERMITTED FOR #14 & #18 BARS. USE BAR COUPLERS PER G.S.N.



APPROVED ADHESIVES	
ADHESIVE	ICC CODE EVALUATION REPORT
HILTI HIT -RE 500 SD	ESR-2322
SIMPSON STRONG-TIE SET-XP	ESR-2508
POWERS PE 1000+	ESR-2583

ADHESIVE ANCHORING SCHEDULE			
REINFORCING		THREADED ROD	
DOWEL SIZE	EMBEDMENT LENGTH (SEE NOTE #2)	SIZE (DIA)	EMBEDMENT LENGTH (SEE NOTE #2)
#3	4"	3/8"	4 1/2"
#4	6"	1/2"	6"
#5	9"	5/8"	7 1/2"
#6	10"	3/4"	9"
#7	12"	7/8"	10 1/2"
#8	13"	1"	12"
#9	14"	1 1/4"	15"
#10	18"		
#11	18"		

NOTES:
1. THIS SCHEDULE SHALL BE USED ONLY WHERE SPECIFICALLY REFERENCED ON THE DRAWINGS AND AT OTHER LOCATIONS WITH THE APPROVAL OF THE ENGINEER.
2. EMBEDMENT LENGTHS SPECIFIED ON PLANS OR DETAILS TAKE PRECEDENCE OVER EMBEDMENT LENGTHS IN THIS SCHEDULE.
3. WHERE THE THICKNESS OF THE EXISTING CONCRETE MEMBER IS NOT SUFFICIENT TO ACHIEVE SCHEDULED EMBEDMENT AND SPECIFIED CLEAR COVER FOR THE ANCHOR, CONTACT THE ENGINEER.
4. USE PROCEEDURES AND PRODUCTS RECOMMENDED BY ADHESIVE MANUFACTURER FOR OVERHEAD INSTALLATION.
5. SPECIAL INSPECTION IS REQUIRED DURING INSTALLATION OF ALL ADHESIVE ANCHORS PER THE CODE EVALUATION REPORT FOR THE ANCHOR AND THE QUALITY ASSURANCE SECTION OF THE GENERAL STRUCTURAL NOTES.

A2 / SB601 ADHESIVE ANCHORING SCHEDULE

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MASONRY LINTEL SCHEDULE

MARK	LINTEL DEPTH	LINTEL WIDTH	MASONRY TYPE	LINTEL		MAXIMUM SPAN	REMARKS
				HORIZONTAL	STIRRUPS		
ML-1	8"	8"	CMU	1- #7 CONT.	-----	3'-4"	
ML-2	16"	8"	CMU	1- #7 CONT. TOP & BOT.	#3 @ 8" O.C.	5'-4"	
ML-3	24"	8"	CMU	1- #7 CONT. TOP & BOT.	#3 @ 8" O.C.	8'-0"	
ML-4	32"	8"	CMU	1- #7 CONT. TOP & BOT.	#3 @ 8" O.C.	10'-0"	

NOTES:

1. MASONRY LINTELS ML-1 THROUGH ML-4 SHALL BE USED OVER OPENINGS IN MASONRY WALLS WHEN A SPECIFIC MASONRY LINTEL IS NOT OTHERWISE SPECIFIED. THE MASONRY LINTEL TO BE USED SHALL BE DETERMINED BY THE MAXIMUM SPAN AS SPECIFIED IN THIS SCHEDULE. WHEN A SPECIFIC MASONRY LINTEL IS CALLED OUT ON THE PLAN, THE MAXIMUM SPAN AS NOTED IN THIS SCHEDULE SHALL NOT APPLY

2. MASONRY LINTELS ML-1 THROUGH ML-4 SHALL NOT BE LOCATED BELOW ANY FLOOR, OR ROOF BEAM, OR GIRDER, OR ANY OTHER CONCENTRATED LOAD UNLESS SHOWN SPECIFICALLY ON THE PLAN SHEET. JOISTS SHALL NOT BEAR ON ANY LINTEL LESS THAN 16" DEEP.

3. FOR MASONRY LINTELS NOT SHOWN ON THE DRAWINGS THAT CARRY ANY FLOOR, OR ROOF BEAM, OR GIRDER, OR ANY OTHER CONCENTRATED LOAD, OR THAT SPAN GREATER THAN 10'-0" CONSULT THE STRUCTURAL ENGINEER.

4. EXTEND ALL HORIZONTAL REINFORCING 48 BAR DIAMETERS BEYOND THE EDGE OF THE OPENING. IF HORIZONTAL REINFORCING CANNOT BE EXTENDED 48 BAR DIAMETERS BEYOND THE EDGE OF THE OPENING, PROVIDE 90 DEGREE STANDARD HOOK.

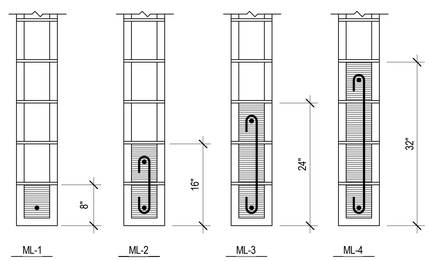
5. GROUT MASONRY LINTELS MONOLITHICALLY WITH THE SUPPORT WALL OR COLUMN AT EACH END.

6. SPLICE TOP BARS AT MIDSPAN OF LINTEL ONLY.

7. SPLICE BOTTOM BARS OVER SUPPORTS ONLY.

8. FOR WALL ABOVE LINTEL, DOWEL VERTICAL REINFORCING INTO FULL DEPTH OF THE LINTEL OR 48 BAR DIAMETERS, WHICHEVER IS LESS.

9. HORIZONTAL WALL REINFORCING SHALL CONTINUE THROUGH MASONRY LINTELS. WHERE BOTH HORIZONTAL WALL REINFORCING AND LINTEL REINFORCING WOULD OCCUR IN THE SAME COURSE, THE LARGER BARS ARE TO REPLACE THE SMALLER BARS.



B2 / SB602 TYPICAL MASONRY LINTEL DETAILS

NO SCALE

MASONRY COLUMN SCHEDULE

MARK	DIMENSIONS		REINFORCING		REMARKS
	WIDTH	DEPTH	VERTICAL	TIES	
MC-1	1' - 4"	8"	4-#5	#3 @ 8" O.C.	
MC-2	2' - 0"	8"	6-#5	#3 @ 8" O.C.	

MASONRY COLUMN NOTES

1. THE CENTERLINE OF VERTICAL BARS SHALL BE LOCATED 2.1/2" FROM THE FACE OF THE MASONRY. HORIZONTAL BARS SHALL BE LOCATED TO THE INSIDE OF THE VERTICAL BARS.
2. UNLESS NOTED OTHERWISE, VERTICAL REINFORCING AND TIES SHALL EXTEND FULL HEIGHT OF THE WALL.
3. MASONRY COLUMN VERTICAL BARS OR DOWELS IN CONCRETE FOUNDATION WALLS SHALL BE TIED WITH #3 TIES @ 8" O.C.

D3 / SB602 TYPICAL MASONRY COLUMN DIAGRAMS

NO SCALE

MASONRY WALL SCHEDULE

MARK	THICK	MATERIAL	REINFORCING		REMARKS
			VERTICAL	HORIZONTAL	
MSW-1	8"	CMU	#5 @ 32" O.C.	#5 @ 48" O.C.	
MSW-2	8"	CMU	#5 @ 32" O.C.	#5 @ 48" O.C.	
MW-1	8"	CMU	#5 @ 32" O.C.	#5 @ 32" O.C.	

1. PROVIDE SCHEDULED VERTICAL REINFORCING BARS AT ALL CORNERS, ENDS OF WALLS, AND SPACED AS SCHEDULED, UNLESS NOTED OTHERWISE.
2. HORIZONTAL REINFORCING BARS SHALL BE CONTINUOUS AT ALL CORNERS AND AT INTERSECTING WALLS. PROVIDE CORNER BARS WITH THE REQUIRED LAP SPLICE LENGTH.
3. TERMINATE ALL HORIZONTAL REINFORCING BARS AT ENDS OF WALLS AND EDGES OF OPENINGS WITH A STANDARD HOOK AROUND VERTICAL REINFORCING BARS.
4. SEE PLANS, DETAILS AND GENERAL STRUCTURAL NOTES FOR ADDITIONAL REINFORCING REQUIREMENTS.
5. GROUT SOLID ALL CELLS BELOW GRADE, CELLS CONTAINING EMBEDS (HSA'S, DBA'S, ANCHOR BOLTS, ETC.), AND CELLS CONTAINING REINFORCING. CONSOLIDATE GROUT AS PER THE GENERAL STRUCTURAL NOTES.
6. HORIZONTAL WALL REINFORCING SHALL BE PLACED INSIDE THE VERTICALS OF MASONRY COLUMNS.
7. HORIZONTAL WALL REINFORCING SHALL CONTINUE THROUGH MASONRY LINTELS. WHERE BOTH HORIZONTAL WALL REINFORCING AND LINTEL REINFORCING OCCUR IN THE SAME COURSE, THE LARGER BARS ARE TO REPLACE THE SMALLER BARS.

MASONRY REINFORCING BAR LAP SPLICE SCHEDULE

BAR SIZE	f'm = 2000 psi						
	6" CMU	8" CMU		10" CMU		12" CMU	
	CLASS	CLASS		CLASS		CLASS	
	A	A	B	A	B	A	B
#3	17"	17"	17"	17"	17"	17"	17"
#4	22"	22"	26"	22"	24"	22"	24"
#5	34"	27"	42"	27"	39"	27"	39"
#6	70"	50"	91"	46"	80"	46"	80"
#7	-	69"	**	53"	**	53"	**
#8	-	98"	**	75"	**	65"	**
#9	-	-	-	96"	**	78"	**

NOTES:

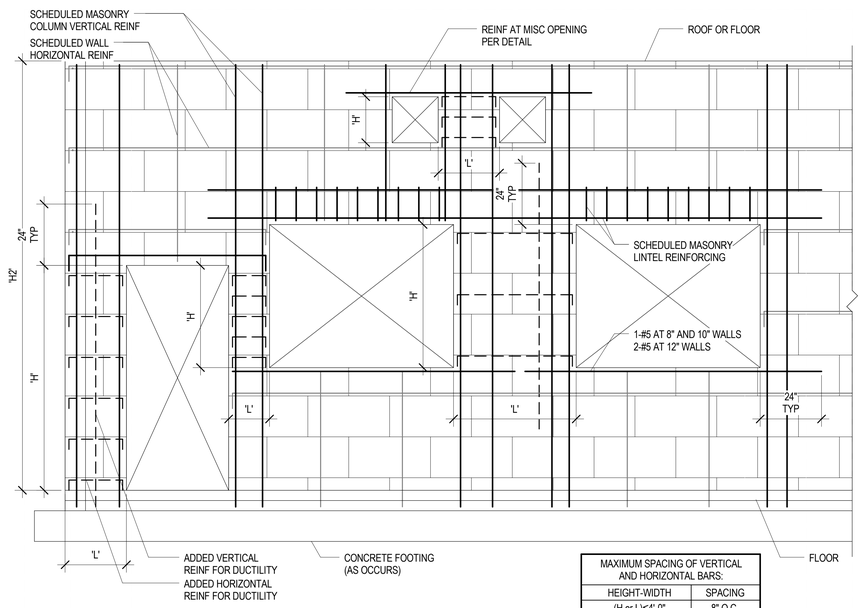
1. CLASS A SPLICES MAY BE USED WHEN ONLY ONE BAR IS CONTINUOUS IN THE MASONRY CELL OR COURSE.

2. CLASS B SPLICES SHALL BE USED WHEN TWO BARS ARE CONTINUOUS IN THE MASONRY CELL OR COURSE.

3. ** INDICATES THAT A LAP SPLICE IS NOT ALLOWED AND MECHANICAL BAR COUPLERS ARE REQUIRED FOR THE BAR SPLICES.

4. WHERE VERTICAL BARS HAVE A REQUIRED LAP SPLICE GREATER THAN THE HEIGHT OF THE GROUT POUR, THE BAR SPLICE SHALL BE MADE WITH A MECHANICAL BAR COUPLER. WHERE THE HEIGHT OF THE GROUT POUR EXCEEDS 60 INCHES, HIGH LIFT GROUTING PROCEDURES SHALL BE FOLLOWED.

5. WHERE MECHANICAL BAR COUPLERS ARE USED, THE CONNECTOR SHALL DEVELOP 125% OF THE SPECIFIED YIELD STRENGTH OF THE BAR IN TENSION AND COMPRESSION.



NOTES:
1. ADDED BAR SIZE SHALL BE 1-#4 MINIMUM.
2. ALL ADDED BARS SHALL BE EMBEDDED IN GROUT.
3. ALL ADDED HORIZONTAL REINFORCING SHALL BE TERMINATED WITH A 90° OR 180° STANDARD HOOK AROUND THE VERTICAL REINFORCING.
4. FOR WALLS WITH 'H2' AND 'L' 12'-0" OR LARGER ADDITIONAL REINFORCING FOR DUCTILITY IS NOT REQUIRED.

WALL REINFORCING LEGEND

- SCHEDULED WALL REINF
- SCHEDULED OPENING REINF
- ADD'L REINF FOR DUCTILITY

MAXIMUM SPACING OF VERTICAL AND HORIZONTAL BARS:	
HEIGHT-WIDTH	SPACING
(H or L)≤4'-0"	8" O.C.
4'-0"≤(H or L)≤6'-0"	16" O.C.
6'-0"≤(H or L)≤8'-0"	24" O.C.
8'-0"≤(H or L)≤10'-0"	32" O.C.
10'-0"≤(H or L)≤12'-0"	40" O.C.
12'-0"≤(H or L)	48" O.C.

A4 / SB602 MASONRY WALL OPENINGS WITH ADDITIONAL DUCTILITY REINFORCING; FOR LOAD BEARING MASONRY WALLS

NO SCALE

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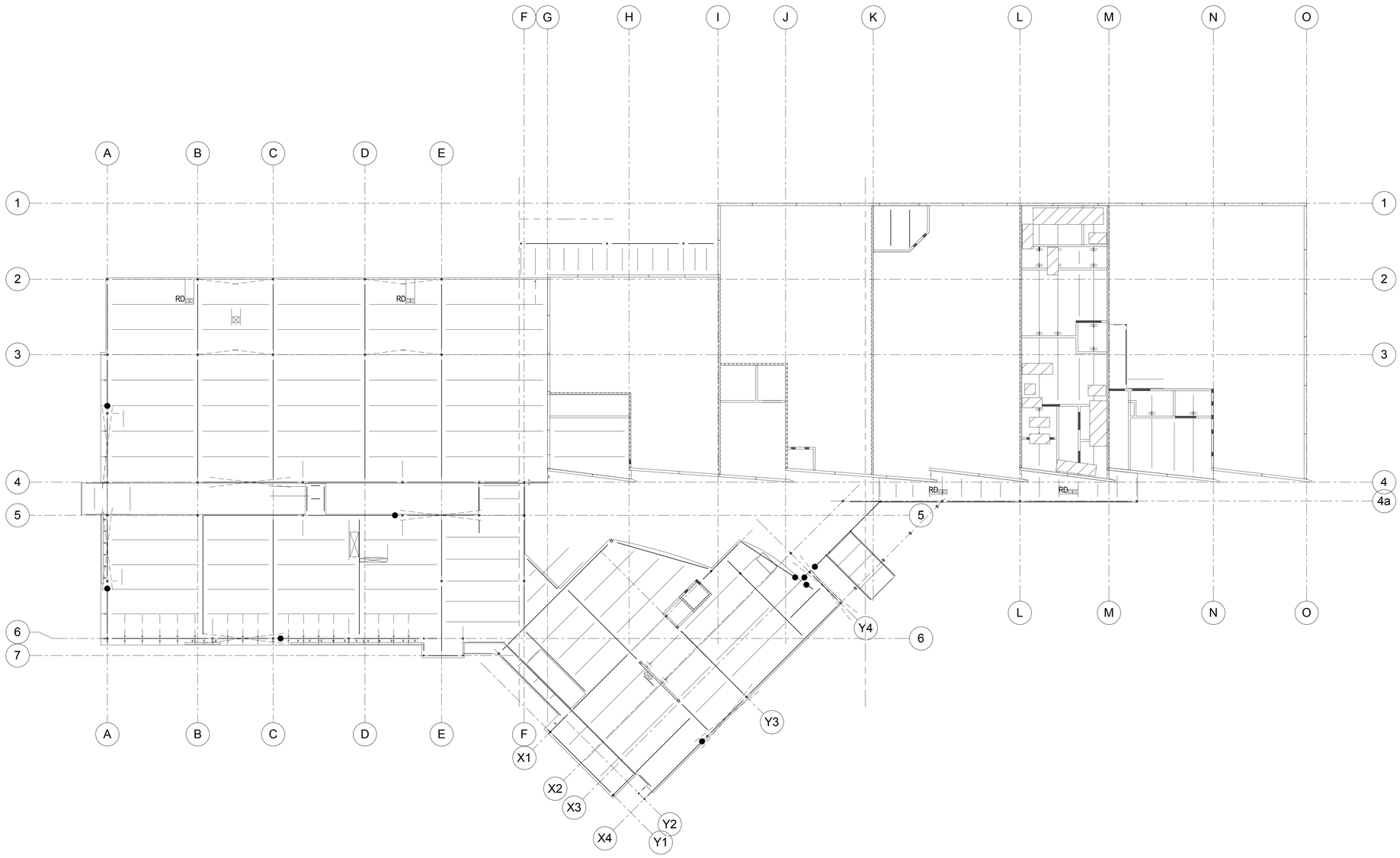
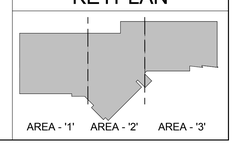


A1 / SF100 SECOND FLOOR FRAMING OVERALL PLAN

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

KEYPLAN



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2nd FLOOR FRAMING OVERALL PLAN

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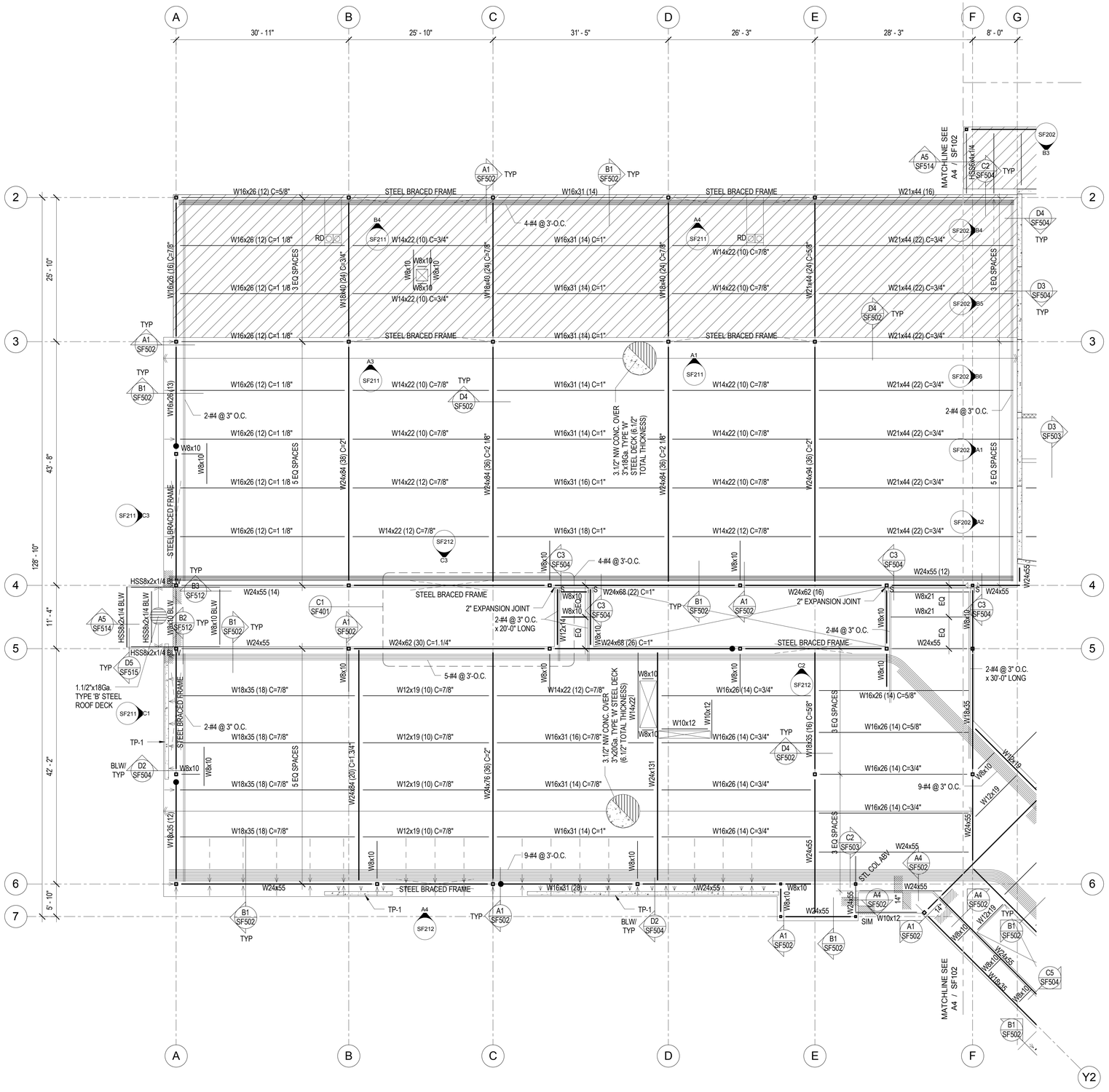


A1 SF101 SECOND FLOOR FRAMING PARTIAL PLAN 1

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

FLOOR FRAMING PLAN LEGEND

- CONCRETE WALL
- CONCRETE LINTEL IN CONCRETE WALL
- MASONRY WALL
- MASONRY LINTEL IN MASONRY WALL
- MASONRY COLUMN IN MASONRY WALL
- STEEL COLUMN - TUBE
- STEEL BRACED FRAME
- MOMENT CONNECTION
- COLLECTOR CONNECTION SEE B1/SF501
- SLIP CONNECTION SEE A5/SF511, U.N.O.
- STEEL BEAM OR GIRDER
- STEEL JOIST OR PURLIN
- CROSS BRIDGING
- HORIZONTAL BRIDGING
- CHANGE IN ELEVATION
- CONCRETE ON METAL DECK
- ROOF DECK
- BALLASTED ROOF
- SPECIAL DECK AREA
- RECESSED/DEPRESSED SLAB ON METAL DECK
- OPENING

FLOOR FRAMING PLAN NOTES

1. SEE GENERAL STRUCTURAL NOTE (3.4.H) AND DETAIL D4/SF502 FOR CONTROL JOINTS IN SUSPENDED SLABS OVER STEEL DECK.

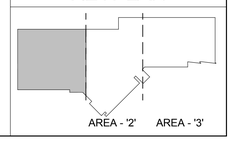
2. SEE DETAILS D1/SF502 FOR MISCELLANEOUS FLOOR OPENINGS.

3. SEE GENERAL STRUCTURAL NOTE (5.10.G) FOR STEEL DECK REQUIREMENTS WHERE 3-SPAN CONDITIONS ARE NOT POSSIBLE.

4. SEE TYPICAL REINFORCING AROUND MISC OR RECESSED MASONRY OPENING FOR ADDITIONAL REINFORCING AT MASONRY WALLS.

5. PROVIDE 4.1/2" LONG HSA ON COMPOSITE BEAM IN AREA OF 1" SLAB RECESS.

KEYPLAN



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2nd FLOOR FRAMING Partial Plan 1

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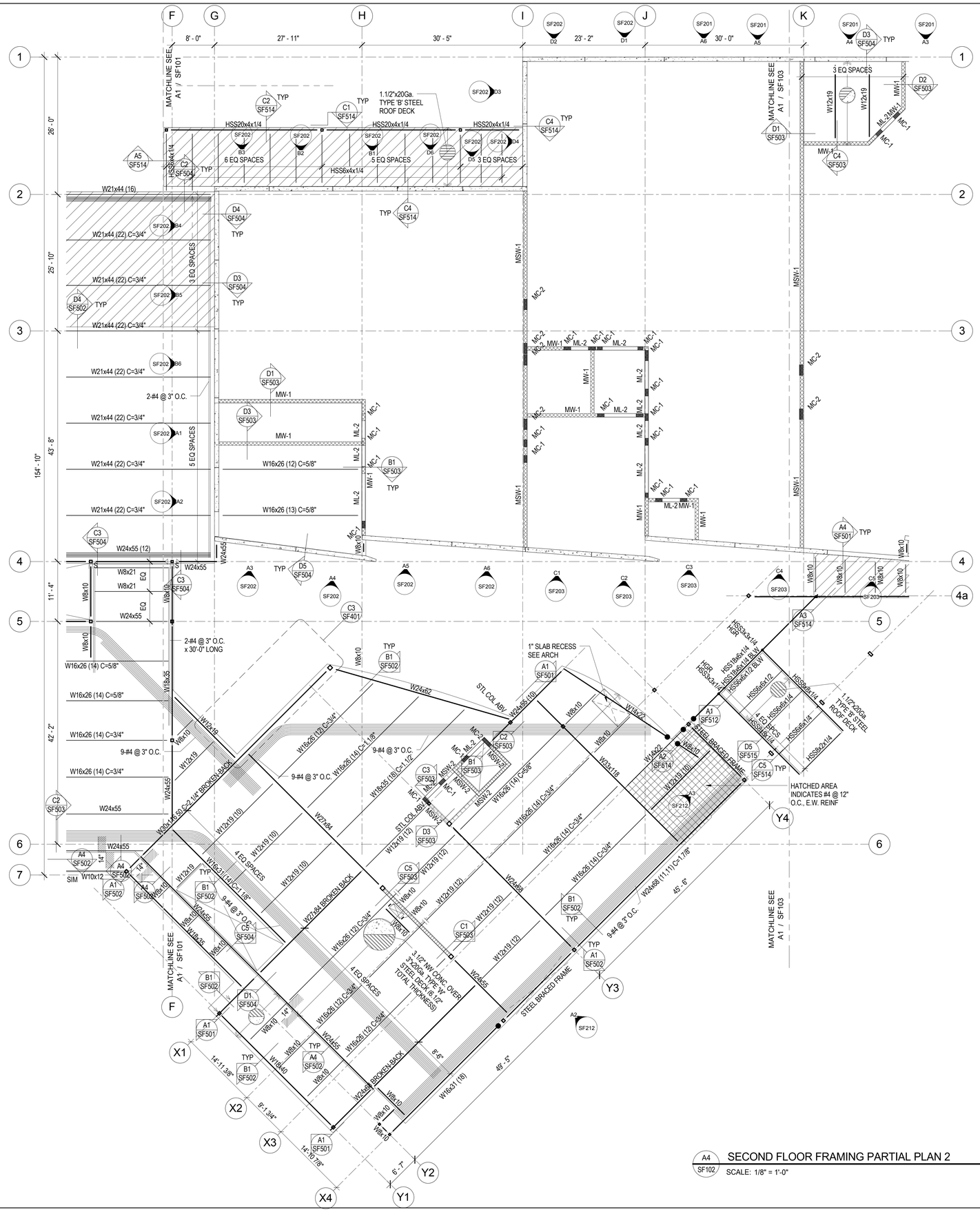


A4 / SF102 SECOND FLOOR FRAMING PARTIAL PLAN 2

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

FLOOR FRAMING PLAN LEGEND

- CONCRETE WALL
- CONCRETE LINTEL IN CONCRETE WALL
- MASONRY WALL
- MASONRY LINTEL IN MASONRY WALL
- MASONRY COLUMN IN MASONRY WALL
- STEEL COLUMN - TUBE
- STEEL BRACED FRAME
- MOMENT CONNECTION
- COLLECTOR CONNECTION SEE B1/SF501
- SLIP CONNECTION SEE A5/SF511, U.N.O.
- STEEL BEAM OR GIRDER
- STEEL JOIST OR PURLIN
- CROSS BRIDGING
- HORIZONTAL BRIDGING
- CHANGE IN ELEVATION
- CONCRETE ON METAL DECK
- ROOF DECK
- BALLASTED ROOF
- SPECIAL DECK AREA
- RECESSED/DEPRESSED SLAB ON METAL DECK
- OPENING

FLOOR FRAMING PLAN NOTES

1. SEE GENERAL STRUCTURAL NOTE (3.4.H) AND DETAIL D4/SF502 FOR CONTROL JOINTS IN SUSPENDED SLABS OVER STEEL DECK.

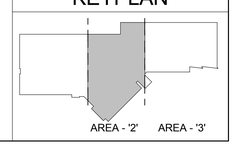
2. SEE DETAILS D1/SF502 FOR MISCELLANEOUS FLOOR OPENINGS.

3. SEE GENERAL STRUCTURAL NOTE (5.10.G) FOR STEEL DECK REQUIREMENTS WHERE 3-SPAN CONDITIONS ARE NOT POSSIBLE.

4. SEE TYPICAL REINFORCING AROUND MISC OR RECESSED MASONRY OPENING FOR ADDITIONAL REINFORCING AT MASONRY WALLS.

5. PROVIDE 4.1/2" LONG HSA ON COMPOSITE BEAM IN AREA OF 1" SLAB RECESS.

KEYPLAN



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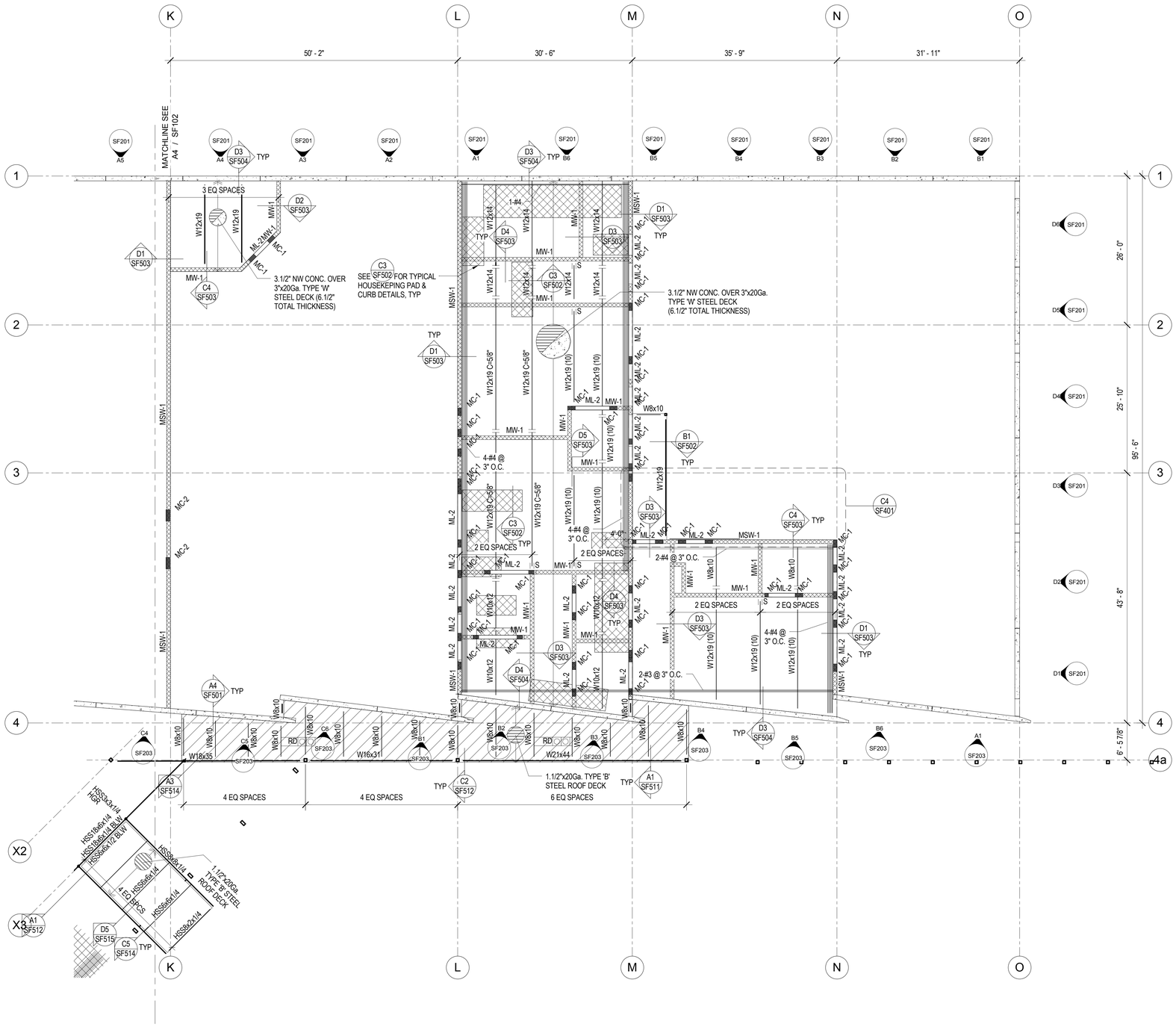
revisions :

2nd FLOOR FRAMING Partial Plan 2

sheet:

SF102

100% Construction Documents



A1 SF103 SECOND FLOOR FRAMING PARTIAL PLAN 3

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

FLOOR FRAMING PLAN LEGEND

- CONCRETE WALL
- CONCRETE LINTEL IN CONCRETE WALL
- MASONRY WALL
- MASONRY LINTEL IN MASONRY WALL
- MASONRY COLUMN IN MASONRY WALL
- STEEL COLUMN - TUBE
- STEEL BRACED FRAME
- MOMENT CONNECTION
- COLLECTOR CONNECTION SEE B1/SF501
- SLIP CONNECTION SEE A5/SF511, U.N.O.
- STEEL BEAM OR GIRDER
- STEEL JOIST OR PURLIN
- CROSS BRIDGING
- HORIZONTAL BRIDGING
- CHANGE IN ELEVATION
- CONCRETE ON METAL DECK
- ROOF DECK
- BALLASTED ROOF
- SPECIAL DECK AREA
- RECESSED/DEPRESSED SLAB ON METAL DECK
- OPENING

FLOOR FRAMING PLAN NOTES

1. SEE GENERAL STRUCTURAL NOTE (3.4.H) AND DETAIL D4/SF502 FOR CONTROL JOINTS IN SUSPENDED SLABS OVER STEEL DECK.

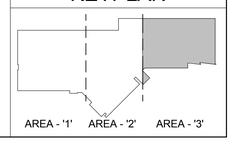
2. SEE DETAILS D1/SF502 FOR MISCELLANEOUS FLOOR OPENINGS.

3. SEE GENERAL STRUCTURAL NOTE (5.10.G) FOR STEEL DECK REQUIREMENTS WHERE 3-SPAN CONDITIONS ARE NOT POSSIBLE.

4. SEE TYPICAL REINFORCING AROUND MISC OR RECESSED MASONRY OPENING FOR ADDITIONAL REINFORCING AT MASONRY WALLS.

5. PROVIDE 4.1/2" LONG HSA ON COMPOSITE BEAM IN AREA OF 1" SLAB RECESS.

KEYPLAN



LICENSED CERTIFIED STRUCTURAL ENGINEER
NO. 176729
MARK R. HARRIS
UTAH

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METHOD STUDIO INC.
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consultants:
REAVELEY ENGINEERS + ASSOCIATES
Consulting Structural Engineers

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project:
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revisions :

2nd FLOOR FRAMING Partial Plan 3

sheet:

SF103

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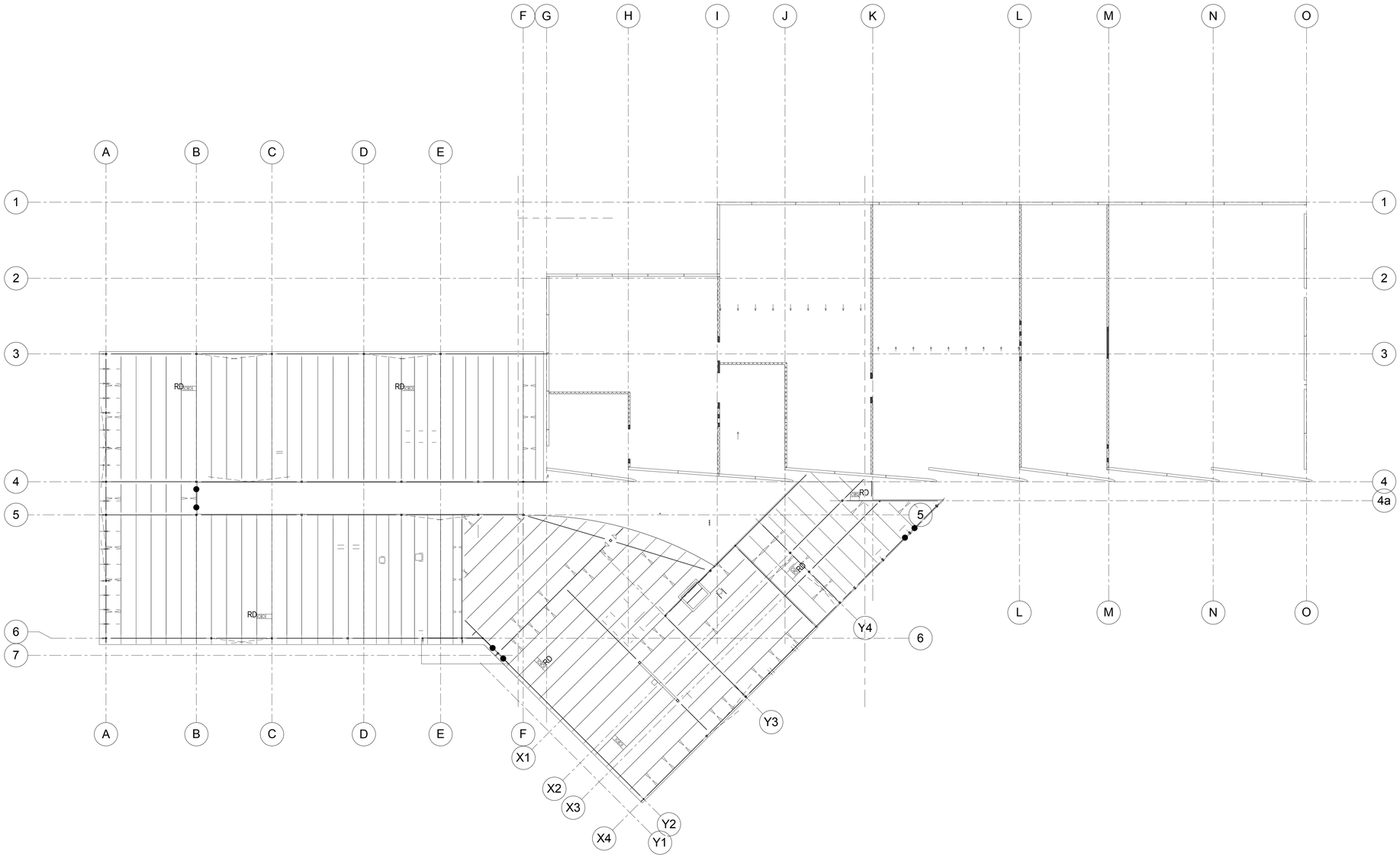
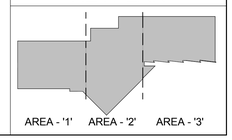


A1 / SF110 LOWER ROOF FRAMING OVERALL PLAN

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

KEYPLAN



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LOWER ROOF FRAMING OVERALL PLAN

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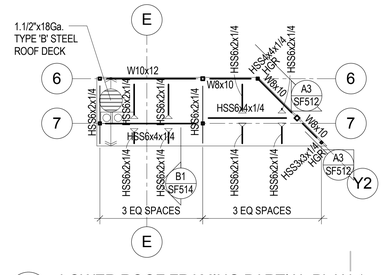
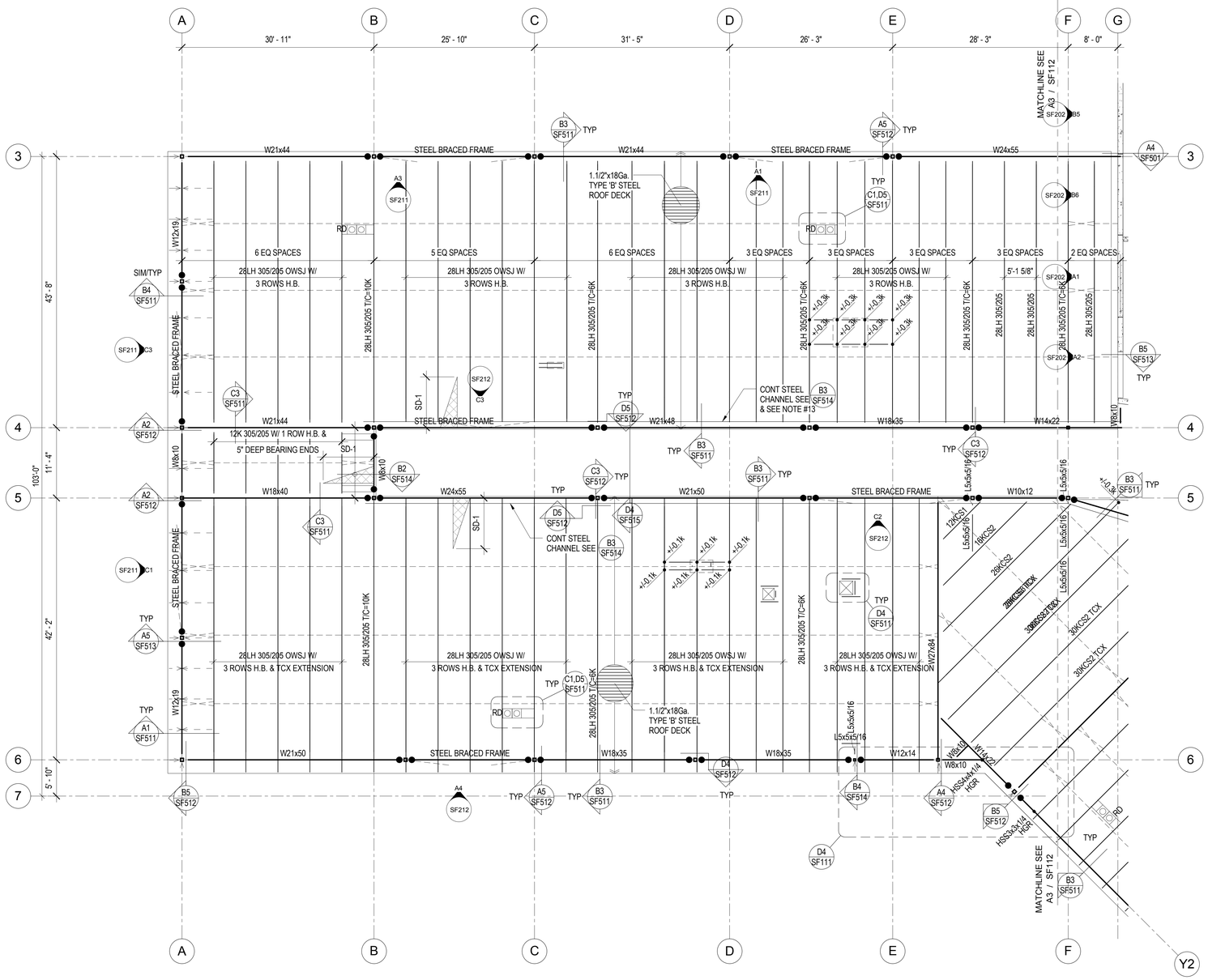


D4 SF111 LOWER ROOF FRAMING PARTIAL PLAN 1

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



A1 SF111 LOWER ROOF FRAMING PARTIAL PLAN 1

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

ROOF FRAMING PLAN LEGEND

- CONCRETE WALL
- CONCRETE LINTEL IN CONCRETE WALL
- MASONRY WALL
- MASONRY LINTEL IN MASONRY WALL
- MASONRY COLUMN IN MASONRY WALL
- STEEL COLUMN - TUBE
- STEEL BRACED FRAME
- MOMENT CONNECTION
- COLLECTOR CONNECTION SEE B1/SF501
- SLIP CONNECTION SEE A5/SF511
- STEEL BEAM OR GIRDER
- STEEL JOIST OR PURLIN
- CROSS BRIDGING
- HORIZONTAL BRIDGING
- CHANGE IN ELEVATION
- CONCRETE ON METAL DECK
- ROOF DECK
- BALLASTED ROOF
- RECESSED/DEPRESSED SLAB ON METAL DECK
- OPENING

ROOF FRAMING PLAN NOTES

1. VERIFY SIZE, WEIGHT, LOCATION AND CONFIGURATION OF ALL ROOF TOP EQUIPMENT WITH ARCHITECT AND MECHANICAL ENGINEER. PROVIDE STEEL FRAMES FOR SUPPORT OF ROOF TOP EQUIPMENT AS INDICATED IN DETAIL D4/SF511 COORDINATE OPENINGS WITH MECHANICAL AND ELECTRICAL AND GENERAL CONTRACTORS.

2. ALL ROOF OPENINGS SHALL BE FRAMED AS INDICATED IN DETAIL D3/SF511. FOR ROUND OPENINGS WHICH ARE LESS THAN 12" DIA. SEE DETAIL C2/SF511.

3. SEE ARCHITECTURAL FOR ROOF SLOPES AND DRAINS. SEE D5 & C1/SF511 FOR ROOF DRAIN OPENING FRAME.

4. OPEN WEB STEEL JOISTS AND JOIST GIRDERS SHALL BE DESIGNED BY THE MANUFACTURER TO SUPPORT THE MECHANICAL AND LATERAL LOADS SHOWN ON THE ROOF FRAMING PLANS IN ADDITION TO THE UNIFORM AND POINT LOADS SHOWN.

5. ±#.#K ADD - INDICATES ADDITIONAL UPLIFT / DOWNWARD FORCE ON STEEL JOIST IN ADDITION TO REGULAR LOADS. ALL POINT LOADS ON JOISTS ARE LIVE LOADS, U.N.O.

6. T/C=##K - INDICATES ADDITIONAL TOP CHORD AXIAL FORCE ON STEEL JOIST OR GIRDER IN ADDITION TO REGULAR LOADS. THIS FORCE IS A SEISMIC LRFD LOAD THAT SHALL BE CONSIDERED IN BOTH TENSION AND COMPRESSION; INCLUDES APPLICABLE OVERSTRENGTH FACTORS FROM IBC SECTION 1613 AND ASCE 7 SECTION 12.10. STEEL JOISTS AND GIRDERS WITH T/C FORCE SHALL BE DESIGNED AS COLLECTOR ELEMENTS PER IBC SECTION 1613 AND ASCE 7 SECTION 12.10 WITH STRENGTH TO RESIST APPLICABLE LOAD COMBINATIONS OF IBC SECTION 1605.4 AND ASCE 7 SECTION 12.4.

7. ALL LOADS SUPPORTED BY OPEN WEB STEEL JOISTS AND GIRDERS SHALL BE LOCATED WITHIN 6" OF JOIST OR GIRDER PANEL POINT OR THE JOIST OR GIRDER SHALL BE REINFORCED PER DETAIL D1/SF511.

8. SEE DETAIL D2/SF511 FOR SUPPORT OF HANGING MECHANICAL UNITS.

9. HORIZONTAL AND CROSS BRIDGING SHALL BE SIZED AND SUPPLIED BY THE JOIST MANUFACTURER. CONNECT TO WALLS AS INDICATED IN DETAILS.

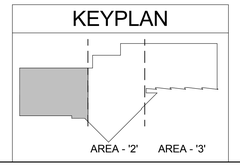
10. WHERE SKYLIGHTS OR MECHANICAL UNITS INTERRUPT HORIZONTAL BRIDGING PROVIDE CROSS BRIDGING AT JOIST SPACES ON EACH SIDE. TYPICAL.

11. SEE A2/SF601 FOR SD-# FOR SNOW DRIFT DIAGRAMS. SEE B5/SF601 FOR SPJ-# FOR SPECIAL JOIST LOADING DIAGRAMS.

12. DESIGN OWSJ FOR MIN. NET UPLIFT OF 23.6psf, U.N.O.

13. 600lb DEAD POINT LOAD AT CONT STEEL CHANNEL.

KEYPLAN



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revisions :

LOWER ROOF FRAMING Partial Plan 1

sheet:

SF111

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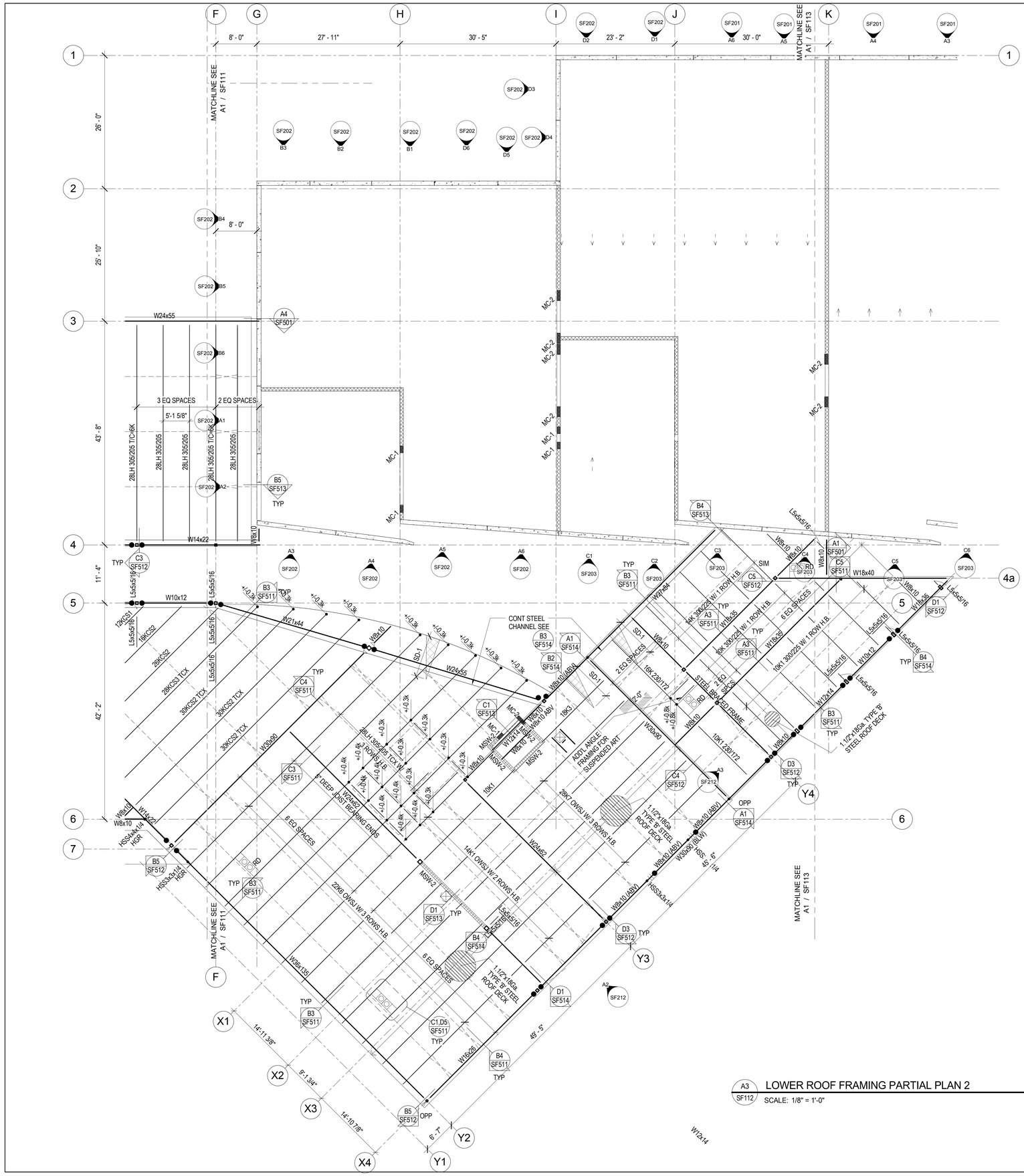


A3 / SF112 LOWER ROOF FRAMING PARTIAL PLAN 2

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

ROOF FRAMING PLAN LEGEND

- CONCRETE WALL
- CONCRETE LINTEL IN CONCRETE WALL
- MASONRY WALL
- MASONRY LINTEL IN MASONRY WALL
- MASONRY COLUMN IN MASONRY WALL
- STEEL COLUMN - TUBE
- STEEL BRACED FRAME
- MOMENT CONNECTION
- COLLECTOR CONNECTION SEE B1/SF501
- SLIP CONNECTION SEE A5/SF511
- STEEL BEAM OR GIRDER
- STEEL JOIST OR PURLIN
- CROSS BRIDGING
- HORIZONTAL BRIDGING
- CHANGE IN ELEVATION
- CONCRETE ON METAL DECK
- ROOF DECK
- BALLASTED ROOF
- RECESSED/DEPRESSED SLAB ON METAL DECK
- OPENING

ROOF FRAMING PLAN NOTES

1. VERIFY SIZE, WEIGHT, LOCATION AND CONFIGURATION OF ALL ROOF TOP EQUIPMENT WITH ARCHITECT AND MECHANICAL ENGINEER. PROVIDE STEEL FRAMES FOR SUPPORT OF ROOF TOP EQUIPMENT AS INDICATED IN DETAIL D4/SF511 COORDINATE OPENINGS WITH MECHANICAL AND ELECTRICAL AND GENERAL CONTRACTORS.

2. ALL ROOF OPENINGS SHALL BE FRAMED AS INDICATED IN DETAIL D3/SF511. FOR ROUND OPENINGS WHICH ARE LESS THAN 12" DIA. SEE DETAIL C2/SF511.

3. SEE ARCHITECTURAL FOR ROOF SLOPES AND DRAINS. SEE D5 & C1/SF511 FOR ROOF DRAIN OPENING FRAME.

4. OPEN WEB STEEL JOISTS AND JOIST GIRDERS SHALL BE DESIGNED BY THE MANUFACTURER TO SUPPORT THE MECHANICAL AND LATERAL LOADS SHOWN ON THE ROOF FRAMING PLANS IN ADDITION TO THE UNIFORM AND POINT LOADS SHOWN.

5. ±#.#K ADD - INDICATES ADDITIONAL UPLIFT / DOWNWARD FORCE ON STEEL JOIST IN ADDITION TO REGULAR LOADS. ALL POINT LOADS ON JOISTS ARE LIVE LOADS, U.N.O.

6. T/C=##K - INDICATES ADDITIONAL TOP CHORD AXIAL FORCE ON STEEL JOIST OR GIRDER IN ADDITION TO REGULAR LOADS. THIS FORCE IS A SEISMIC LRFD LOAD THAT SHALL BE CONSIDERED IN BOTH TENSION AND COMPRESSION; INCLUDES APPLICABLE OVERSTRENGTH FACTORS FROM IBC SECTION 1613 AND ASCE 7 SECTION 12.10. STEEL JOISTS AND GIRDERS WITH T/C FORCE SHALL BE DESIGNED AS COLLECTOR ELEMENTS PER IBC SECTION 1613 AND ASCE 7 SECTION 12.10 WITH STRENGTH TO RESIST APPLICABLE LOAD COMBINATIONS OF IBC SECTION 1605.4 AND ASCE 7 SECTION 12.4.

7. ALL LOADS SUPPORTED BY OPEN WEB STEEL JOISTS AND GIRDERS SHALL BE LOCATED WITHIN 6" OF JOIST OR GIRDER PANEL POINT OR THE JOIST OR GIRDER SHALL BE REINFORCED PER DETAIL D1/SF511.

8. SEE DETAIL D2/SF511 FOR SUPPORT OF HANGING MECHANICAL UNITS.

9. HORIZONTAL AND CROSS BRIDGING SHALL BE SIZED AND SUPPLIED BY THE JOIST MANUFACTURER. CONNECT TO WALLS AS INDICATED IN DETAILS.

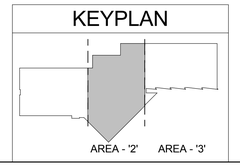
10. WHERE SKYLIGHTS OR MECHANICAL UNITS INTERRUPT HORIZONTAL BRIDGING PROVIDE CROSS BRIDGING AT JOIST SPACES ON EACH SIDE. TYPICAL.

11. SEE A2/SF601 FOR SD-# FOR SNOW DRIFT DIAGRAMS. SEE B5/SF601 FOR SPJ-# FOR SPECIAL JOIST LOADING DIAGRAMS.

12. DESIGN OWSJ FOR MIN. NET UPLIFT OF 23.6psf, U.N.O.

13. 600lb DEAD POINT LOAD AT CONT STEEL CHANNEL.

KEYPLAN



LICENSED CERTIFIED STRUCTURAL ENGINEER
NO. 176728
MARK R. HARRIS
UTAH

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project#: 11.0420
date: 1/20/12

revisions :

LOWER ROOF FRAMING Partial Plan 2

sheet:

SF112

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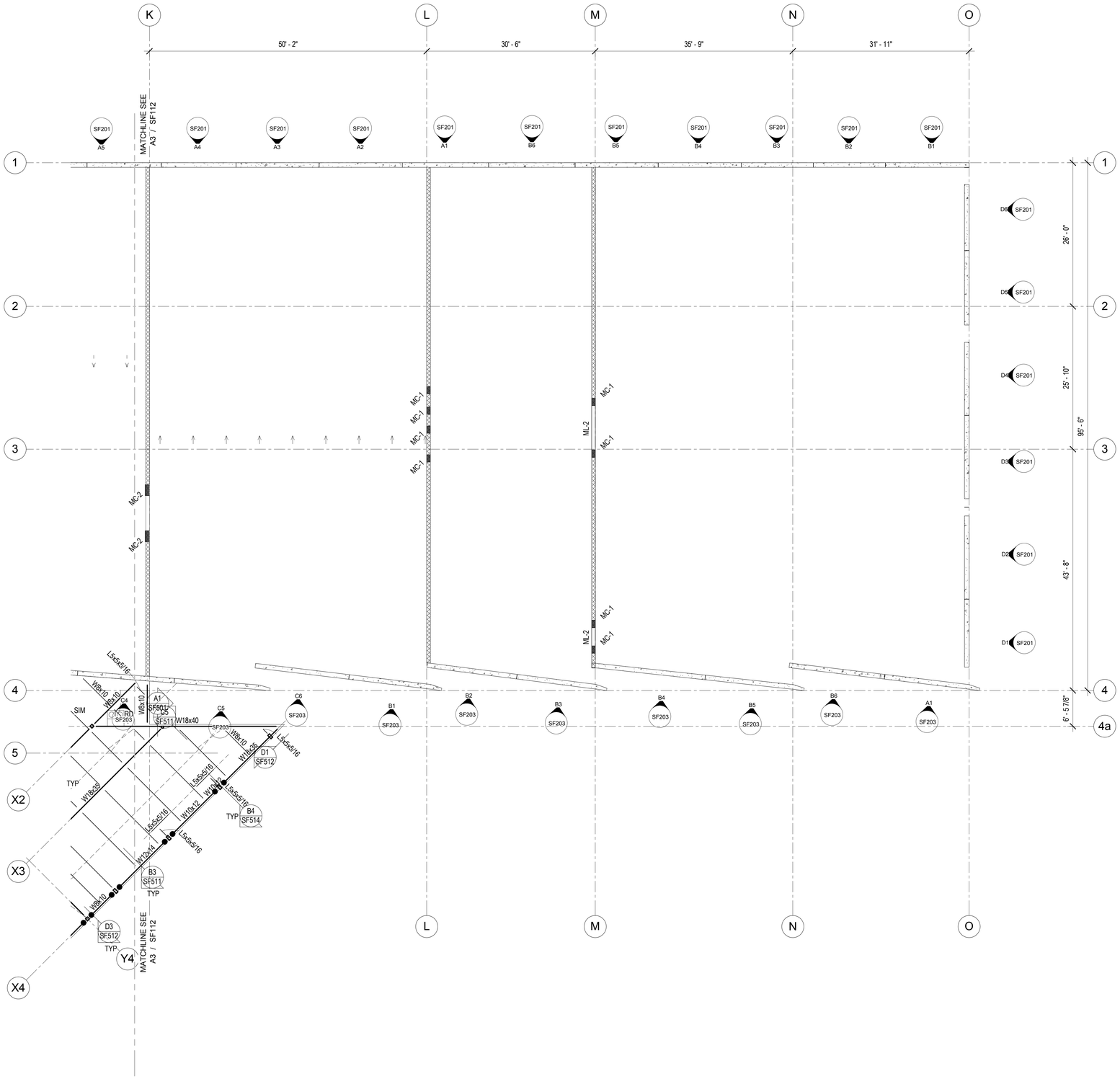

A1 / SF113 LOWER ROOF FRAMING PARTIAL PLAN 3

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

ROOF FRAMING PLAN LEGEND

- CONCRETE WALL
- CONCRETE LINTEL IN CONCRETE WALL
- MASONRY WALL
- MASONRY LINTEL IN MASONRY WALL
- MASONRY COLUMN IN MASONRY WALL
- STEEL COLUMN - TUBE
- STEEL BRACED FRAME
- MOMENT CONNECTION
- COLLECTOR CONNECTION SEE B1/SF501
- SLIP CONNECTION SEE A5/SF511
- STEEL BEAM OR GIRDER
- STEEL JOIST OR PURLIN
- CROSS BRIDGING
- HORIZONTAL BRIDGING
- CHANGE IN ELEVATION
- CONCRETE ON METAL DECK
- ROOF DECK
- BALLASTED ROOF
- RECESSED/DEPRESSED SLAB ON METAL DECK
- OPENING

ROOF FRAMING PLAN NOTES

1. VERIFY SIZE, WEIGHT, LOCATION AND CONFIGURATION OF ALL ROOF TOP EQUIPMENT WITH ARCHITECT AND MECHANICAL ENGINEER. PROVIDE STEEL FRAMES FOR SUPPORT OF ROOF TOP EQUIPMENT AS INDICATED IN DETAIL D4/SF511 COORDINATE OPENINGS WITH MECHANICAL AND ELECTRICAL AND GENERAL CONTRACTORS.

2. ALL ROOF OPENINGS SHALL BE FRAMED AS INDICATED IN DETAIL D3/SF511. FOR ROUND OPENINGS WHICH ARE LESS THAN 12" DIA. SEE DETAIL C2/SF511.

3. SEE ARCHITECTURAL FOR ROOF SLOPES AND DRAINS. SEE D5 & C1/SF511 FOR ROOF DRAIN OPENING FRAME.

4. OPEN WEB STEEL JOISTS AND JOIST GIRDERS SHALL BE DESIGNED BY THE MANUFACTURER TO SUPPORT THE MECHANICAL AND LATERAL LOADS SHOWN ON THE ROOF FRAMING PLANS IN ADDITION TO THE UNIFORM AND POINT LOADS SHOWN.

5. ±#.#K ADD - INDICATES ADDITIONAL UPLIFT / DOWNWARD FORCE ON STEEL JOIST IN ADDITION TO REGULAR LOADS. ALL POINT LOADS ON JOISTS ARE LIVE LOADS, U.N.O.

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8. SEE DETAIL D2/SF511 FOR SUPPORT OF HANGING MECHANICAL UNITS.

9. HORIZONTAL AND CROSS BRIDGING SHALL BE SIZED AND SUPPLIED BY THE JOIST MANUFACTURER. CONNECT TO WALLS AS INDICATED IN DETAILS.

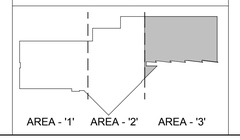
10. WHERE SKYLIGHTS OR MECHANICAL UNITS INTERRUPT HORIZONTAL BRIDGING PROVIDE CROSS BRIDGING AT JOIST SPACES ON EACH SIDE. TYPICAL.

11. SEE A2/SF601 FOR SD-# FOR SNOW DRIFT DIAGRAMS. SEE B5/SF601 FOR SPJ-# FOR SPECIAL JOIST LOADING DIAGRAMS.

12. DESIGN OWSJ FOR MIN. NET UPLIFT OF 23.6psf, U.N.O.

13. 600lb DEAD POINT LOAD AT CONT STEEL CHANNEL.

KEYPLAN



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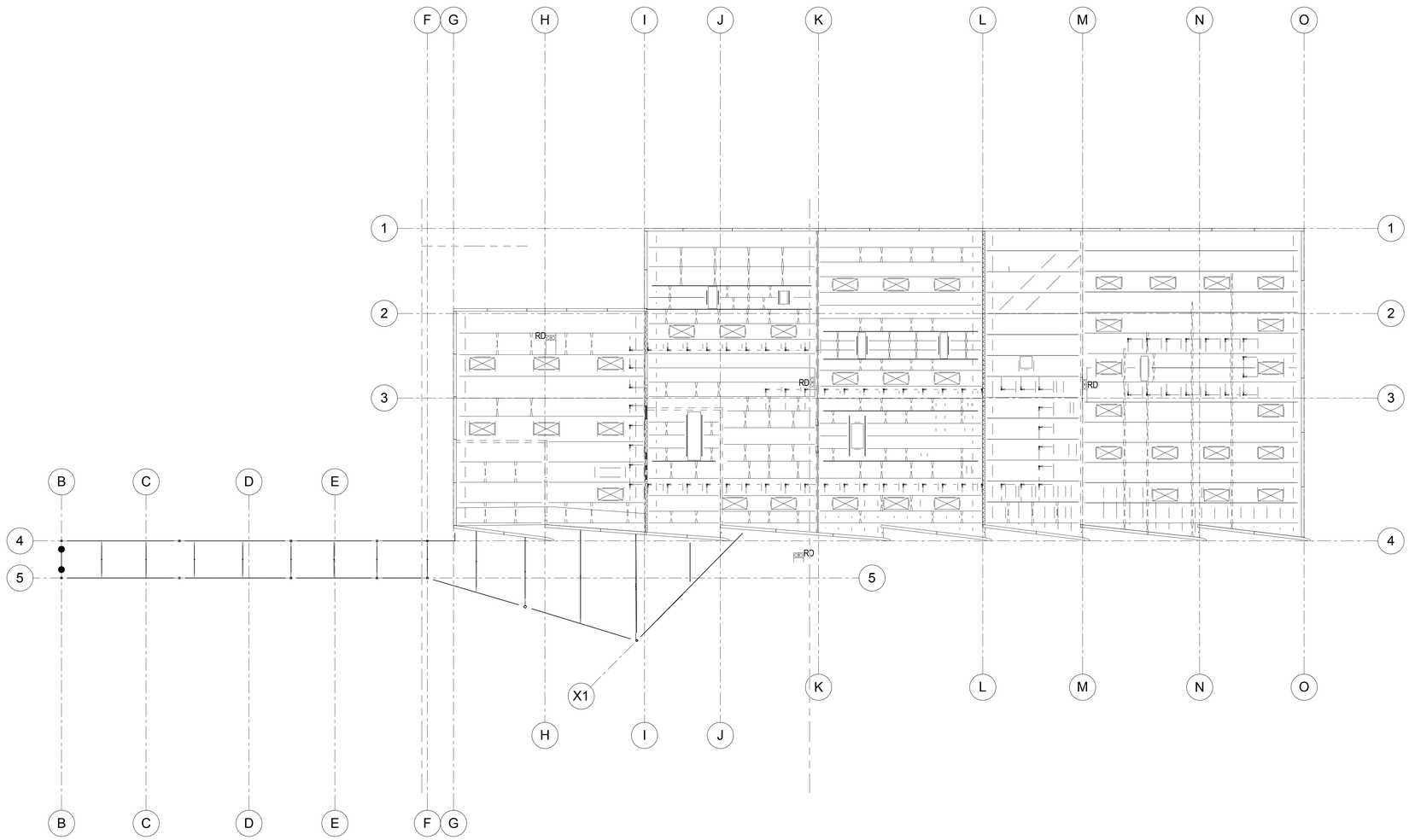
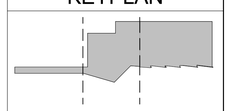


A1
SF120
UPPER ROOF FRAMING OVERALL PLAN
SCALE: 1/16" = 1'-0"

KEYPLAN



AREA - '1' AREA - '2' AREA - '3'

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UPPER ROOF FRAMING OVERALL PLAN

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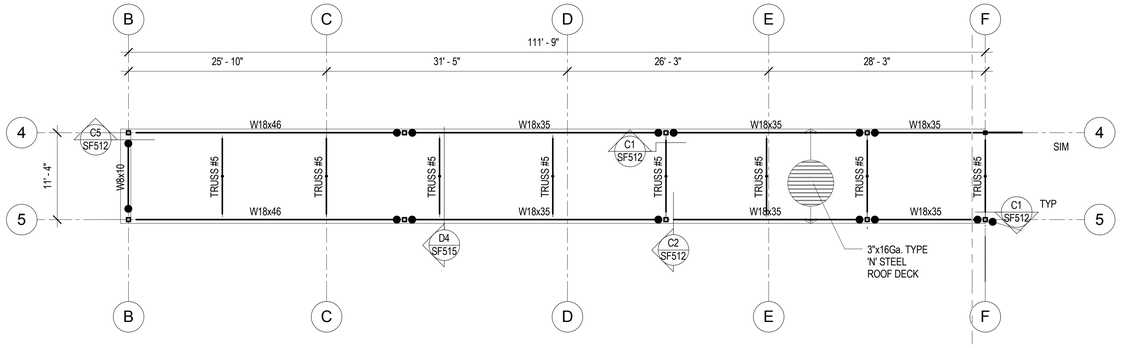


B2 / SF121 UPPER ROOF FRAMING PARTIAL PLAN 1

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

ROOF FRAMING PLAN LEGEND

- CONCRETE WALL
- CONCRETE LINTEL IN CONCRETE WALL
- MASONRY WALL
- MASONRY LINTEL IN MASONRY WALL
- MASONRY COLUMN IN MASONRY WALL
- STEEL COLUMN - TUBE
- STEEL BRACED FRAME
- MOMENT CONNECTION
- COLLECTOR CONNECTION SEE B1/SF501
- SS — SLIP CONNECTION SEE A5/SF511
- STEEL BEAM OR GIRDER
- STEEL JOIST OR PURLIN
- CROSS BRIDGING
- HORIZONTAL BRIDGING
- 0" — CHANGE IN ELEVATION
- CONCRETE ON METAL DECK
- ROOF DECK
- BALLASTED ROOF
- RECESSED/DEPRESSED SLAB ON METAL DECK
- OPENING

ROOF FRAMING PLAN NOTES

1. VERIFY SIZE, WEIGHT, LOCATION AND CONFIGURATION OF ALL ROOF TOP EQUIPMENT WITH ARCHITECT AND MECHANICAL ENGINEER. PROVIDE STEEL FRAMES FOR SUPPORT OF ROOF TOP EQUIPMENT AS INDICATED IN DETAIL D4/SF511 COORDINATE OPENINGS WITH MECHANICAL AND ELECTRICAL AND GENERAL CONTRACTORS.

2. ALL ROOF OPENINGS SHALL BE FRAMED AS INDICATED IN DETAIL D3/SF511. FOR ROUND OPENINGS WHICH ARE LESS THAN 12" DIA. SEE DETAIL C2/SF511.

3. SEE ARCHITECTURAL FOR ROOF SLOPES AND DRAINS. SEE D5 & C1/SF511 FOR ROOF DRAIN OPENING FRAME.

4. OPEN WEB STEEL JOISTS AND JOIST GIRDERS SHALL BE DESIGNED BY THE MANUFACTURER TO SUPPORT THE MECHANICAL AND LATERAL LOADS SHOWN ON THE ROOF FRAMING PLANS IN ADDITION TO THE UNIFORM AND POINT LOADS SHOWN.

5. ±#.#K ADD - INDICATES ADDITIONAL UPLIFT / DOWNWARD FORCE ON STEEL JOIST IN ADDITION TO REGULAR LOADS. ALL POINT LOADS ON JOISTS ARE LIVE LOADS, U.N.O.

6. T/C=###K - INDICATES ADDITIONAL TOP CHORD AXIAL FORCE ON STEEL JOIST OR GIRDER IN ADDITION TO REGULAR LOADS. THIS FORCE IS A SEISMIC LRFD LOAD THAT SHALL BE CONSIDERED IN BOTH TENSION AND COMPRESSION; INCLUDES APPLICABLE OVERSTRENGTH FACTORS FROM IBC SECTION 1613 AND ASCE 7 SECTION 12.10. STEEL JOISTS AND GIRDERS WITH T/C FORCE SHALL BE DESIGNED AS COLLECTOR ELEMENTS PER IBC SECTION 1613 AND ASCE 7 SECTION 12.10 WITH STRENGTH TO RESIST APPLICABLE LOAD COMBINATIONS OF IBC SECTION 1605.4 AND ASCE 7 SECTION 12.4.

7. ALL LOADS SUPPORTED BY OPEN WEB STEEL JOISTS AND GIRDERS SHALL BE LOCATED WITHIN 6" OF JOIST OR GIRDER PANEL POINT OR THE JOIST OR GIRDER SHALL BE REINFORCED PER DETAIL D1/SF511.

8. SEE DETAIL D2/SF511 FOR SUPPORT OF HANGING MECHANICAL UNITS.

9. HORIZONTAL AND CROSS BRIDGING SHALL BE SIZED AND SUPPLIED BY THE JOIST MANUFACTURER. CONNECT TO WALLS AS INDICATED IN DETAILS.

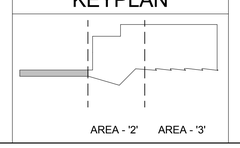
10. WHERE SKYLIGHTS OR MECHANICAL UNITS INTERRUPT HORIZONTAL BRIDGING PROVIDE CROSS BRIDGING AT JOIST SPACES ON EACH SIDE. TYPICAL.

11. SEE A2/SF601 FOR SD-# FOR SNOW DRIFT DIAGRAMS. SEE B5/SF601 FOR SPJ-# FOR SPECIAL JOIST LOADING DIAGRAMS.

12. DESIGN OWSJ FOR MIN. NET UPLIFT OF 23.6psf, U.N.O.

13. 600lb DEAD POINT LOAD AT CONT STEEL CHANNEL.

KEYPLAN



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925 south west temple
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consultants:

REAVELEY ENGINEERS + ASSOCIATES
Consulting Structural Engineers

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project:
TOOELE APPLIED TECHNOLOGY COLLEGE - NEW BUILDING

88 South Tooele Blvd
Tooele, UT 84074

project#: 11.0420
date: 1/20/12

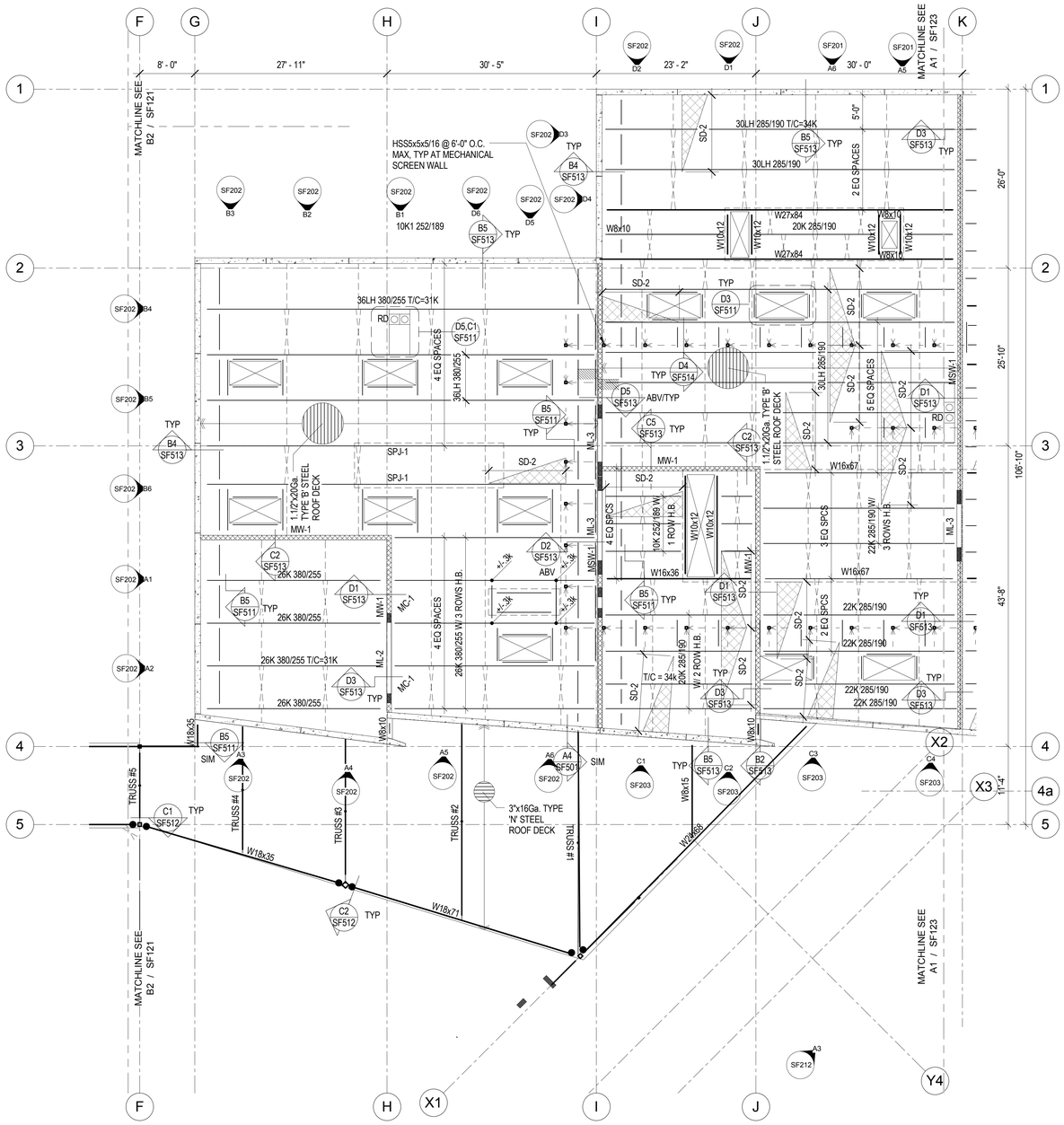
revisions :

UPPER ROOF FRAMING Partial Plan 1

sheet:

SF121

100% Construction Documents



A1 / SF122 UPPER ROOF FRAMING PARTIAL PLAN 2

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

ROOF FRAMING PLAN LEGEND

- CONCRETE WALL
- CONCRETE LINTEL IN CONCRETE WALL
- MASONRY WALL
- MASONRY LINTEL IN MASONRY WALL
- MASONRY COLUMN IN MASONRY WALL
- STEEL COLUMN - TUBE
- STEEL BRACED FRAME
- MOMENT CONNECTION
- COLLECTOR CONNECTION SEE B1/SF501
- SLIP CONNECTION SEE A5/SF511
- STEEL BEAM OR GIRDER
- STEEL JOIST OR PURLIN
- CROSS BRIDGING
- HORIZONTAL BRIDGING
- CHANGE IN ELEVATION
- CONCRETE ON METAL DECK
- ROOF DECK
- BALLASTED ROOF
- RECESSED/DEPRESSED SLAB ON METAL DECK
- OPENING

ROOF FRAMING PLAN NOTES

1. VERIFY SIZE, WEIGHT, LOCATION AND CONFIGURATION OF ALL ROOF TOP EQUIPMENT WITH ARCHITECT AND MECHANICAL ENGINEER. PROVIDE STEEL FRAMES FOR SUPPORT OF ROOF TOP EQUIPMENT AS INDICATED IN DETAIL D4/SF511 COORDINATE OPENINGS WITH MECHANICAL AND ELECTRICAL AND GENERAL CONTRACTORS.

2. ALL ROOF OPENINGS SHALL BE FRAMED AS INDICATED IN DETAIL D3/SF511. FOR ROUND OPENINGS WHICH ARE LESS THAN 12" DIA. SEE DETAIL C2/SF511.

3. SEE ARCHITECTURAL FOR ROOF SLOPES AND DRAINS. SEE D5 & C1/SF511 FOR ROOF DRAIN OPENING FRAME.

4. OPEN WEB STEEL JOISTS AND JOIST GIRDERS SHALL BE DESIGNED BY THE MANUFACTURER TO SUPPORT THE MECHANICAL AND LATERAL LOADS SHOWN ON THE ROOF FRAMING PLANS IN ADDITION TO THE UNIFORM AND POINT LOADS SHOWN.

5. ±##K ADD - INDICATES ADDITIONAL UPLIFT / DOWNWARD FORCE ON STEEL JOIST IN ADDITION TO REGULAR LOADS. ALL POINT LOADS ON JOISTS ARE LIVE LOADS, U.N.O.

6. T/C=##K - INDICATES ADDITIONAL TOP CHORD AXIAL FORCE ON STEEL JOIST OR GIRDER IN ADDITION TO REGULAR LOADS. THIS FORCE IS A SEISMIC LRFD LOAD THAT SHALL BE CONSIDERED IN BOTH TENSION AND COMPRESSION; INCLUDES APPLICABLE OVERSTRENGTH FACTORS FROM IBC SECTION 1613 AND ASCE 7 SECTION 12.10. STEEL JOISTS AND GIRDERS WITH T/C FORCE SHALL BE DESIGNED AS COLLECTOR ELEMENTS PER IBC SECTION 1613 AND ASCE 7 SECTION 12.10 WITH STRENGTH TO RESIST APPLICABLE LOAD COMBINATIONS OF IBC SECTION 1605.4 AND ASCE 7 SECTION 12.4.

7. ALL LOADS SUPPORTED BY OPEN WEB STEEL JOISTS AND GIRDERS SHALL BE LOCATED WITHIN 6" OF JOIST OR GIRDER PANEL POINT OR THE JOIST OR GIRDER SHALL BE REINFORCED PER DETAIL D1/SF511.

8. SEE DETAIL D2/SF511 FOR SUPPORT OF HANGING MECHANICAL UNITS.

9. HORIZONTAL AND CROSS BRIDGING SHALL BE SIZED AND SUPPLIED BY THE JOIST MANUFACTURER. CONNECT TO WALLS AS INDICATED IN DETAILS.

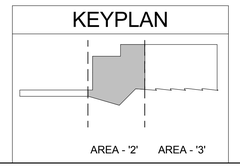
10. WHERE SKYLIGHTS OR MECHANICAL UNITS INTERRUPT HORIZONTAL BRIDGING PROVIDE CROSS BRIDGING AT JOIST SPACES ON EACH SIDE. TYPICAL.

11. SEE A2/SF601 FOR SD-# FOR SNOW DRIFT DIAGRAMS. SEE B5/SF601 FOR SPJ-# FOR SPECIAL JOIST LOADING DIAGRAMS.

12. DESIGN OWSJ FOR MIN. NET UPLIFT OF 23.6psf, U.N.O.

13. 600lb DEAD POINT LOAD AT CONT STEEL CHANNEL.

KEYPLAN



LICENSED CERTIFIED STRUCTURAL ENGINEER NO. 176173 MARK R. HARRIS UTAH

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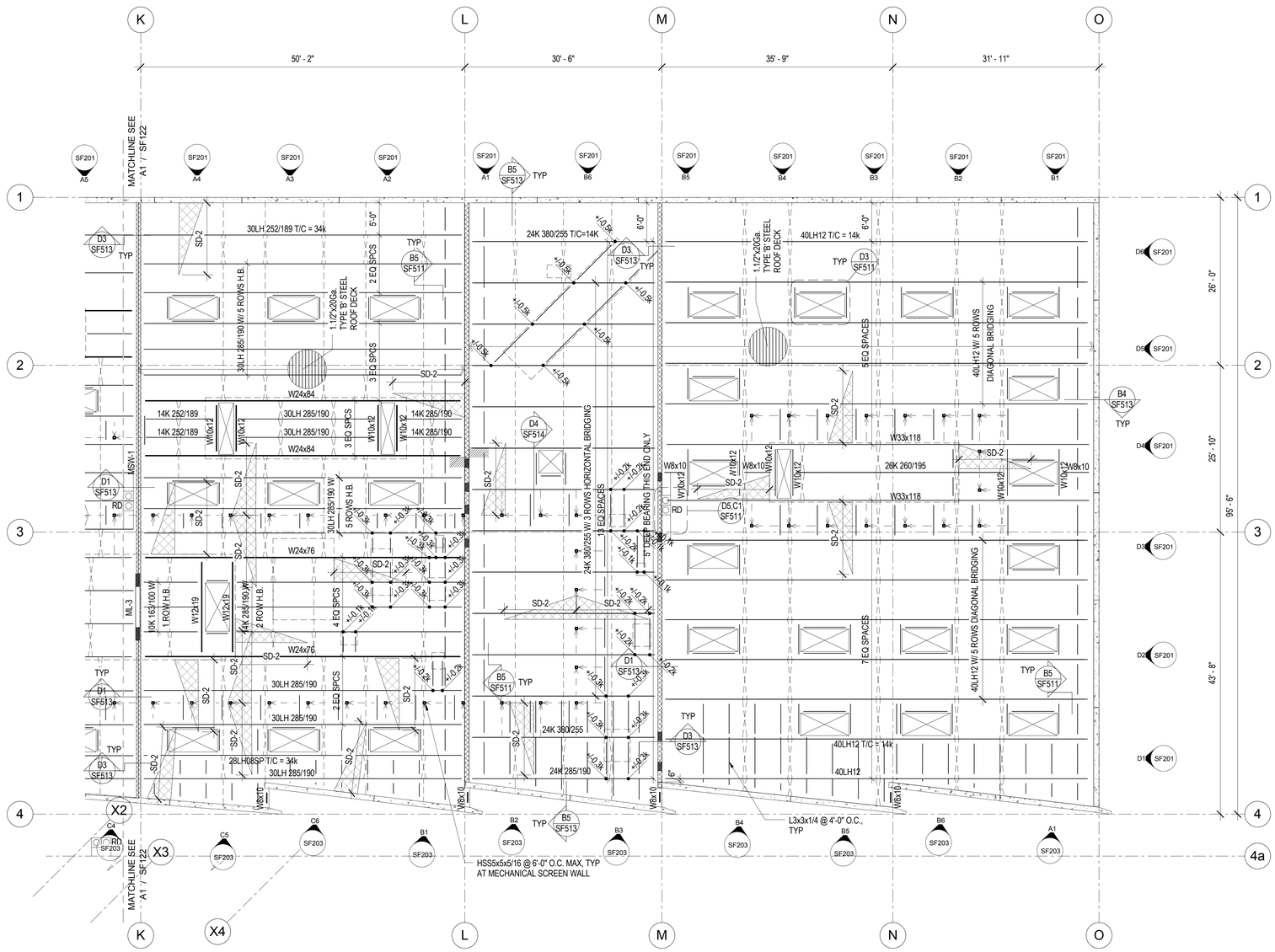
revisions :

UPPER ROOF FRAMING Partial Plan 2

sheet:

SF122

100% Construction Documents



A1 / SF123 UPPER ROOF FRAMING PARTIAL PLAN 3

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

ROOF FRAMING PLAN LEGEND

- CONCRETE WALL
- CONCRETE LINTEL IN CONCRETE WALL
- MASONRY WALL
- MASONRY LINTEL IN MASONRY WALL
- MASONRY COLUMN IN MASONRY WALL
- STEEL COLUMN - TUBE
- STEEL BRACED FRAME
- MOMENT CONNECTION
- COLLECTOR CONNECTION SEE B1/SF501
- SLIP CONNECTION SEE A5/SF511
- STEEL BEAM OR GIRDER
- STEEL JOIST OR PURLIN
- CROSS BRIDGING
- HORIZONTAL BRIDGING
- CHANGE IN ELEVATION
- CONCRETE ON METAL DECK
- ROOF DECK
- BALLASTED ROOF
- RECESSED/DEPRESSED SLAB ON METAL DECK
- OPENING

ROOF FRAMING PLAN NOTES

1. VERIFY SIZE, WEIGHT, LOCATION AND CONFIGURATION OF ALL ROOF TOP EQUIPMENT WITH ARCHITECT AND MECHANICAL ENGINEER. PROVIDE STEEL FRAMES FOR SUPPORT OF ROOF TOP EQUIPMENT AS INDICATED IN DETAIL D4/SF511 COORDINATE OPENINGS WITH MECHANICAL AND ELECTRICAL AND GENERAL CONTRACTORS.

2. ALL ROOF OPENINGS SHALL BE FRAMED AS INDICATED IN DETAIL D3/SF511. FOR ROUND OPENINGS WHICH ARE LESS THAN 12" DIA. SEE DETAIL C2/SF511.

3. SEE ARCHITECTURAL FOR ROOF SLOPES AND DRAINS. SEE D5 & C1/SF511 FOR ROOF DRAIN OPENING FRAME.

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10. WHERE SKYLIGHTS OR MECHANICAL UNITS INTERRUPT HORIZONTAL BRIDGING PROVIDE CROSS BRIDGING AT JOIST SPACES ON EACH SIDE. TYPICAL.

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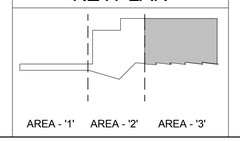
12. DESIGN OWSJ FOR MIN. NET UPLIFT OF 23.6psf, U.N.O.

13. 600lb DEAD POINT LOAD AT CONT STEEL CHANNEL.

KEYPLAN



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UPPER ROOF FRAMING Partial Plan 3

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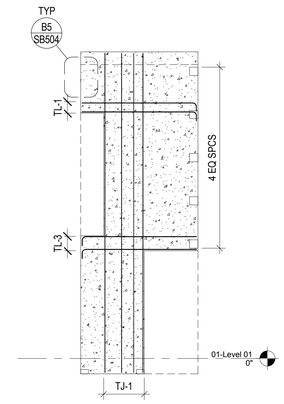
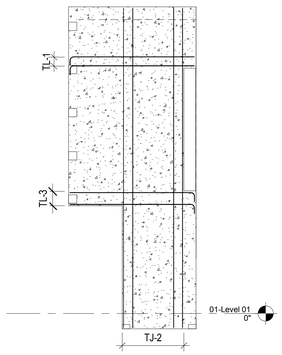
SF123

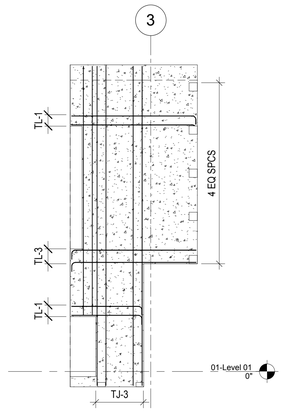
100% Construction Documents



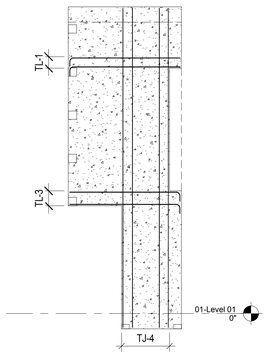
D1 SF201 PANEL 1
SCALE: 1/8" = 1'-0"



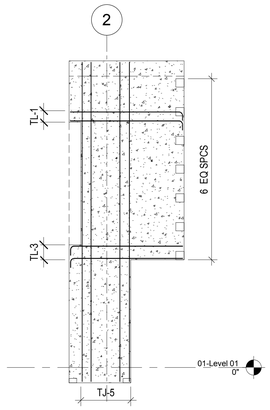
D2 SF201 PANEL 2
SCALE: 1/8" = 1'-0"



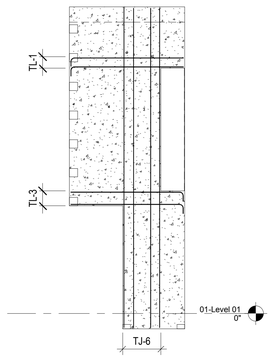
D3 SF201 PANEL 3
SCALE: 1/8" = 1'-0"



D4 SF201 PANEL 4
SCALE: 1/8" = 1'-0"



D5 SF201 PANEL 5
SCALE: 1/8" = 1'-0"



D6 SF201 PANEL 6
SCALE: 1/8" = 1'-0"

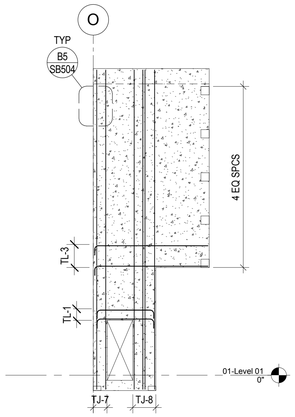
CONCRETE TILT-UP PANEL LEGEND

- TILT-UP PANEL CONNECTION SEE B1/SB504
- TILT-UP PANEL TO FOOTING CONNECTION SEE D2/SB505

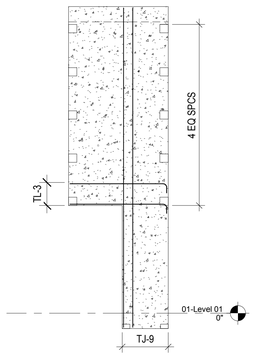
CONCRETE TILT-UP PANEL ELEVATION NOTES

1. SEE SB504 FOR TYPICAL CONCRETE TILT-UP PANEL REINFORCING SCHEDULE, OPENING REINFORCING SCHEDULE & TYPICAL DETAILS.

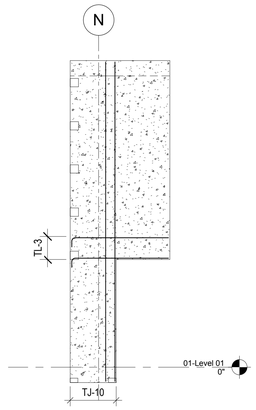
2. TOP TILT-UP PANEL CONNECTION SHALL BE 6" BELOW DECK BEARING.



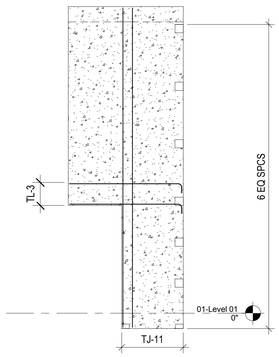
B1 SF201 PANEL 7
SCALE: 1/8" = 1'-0"



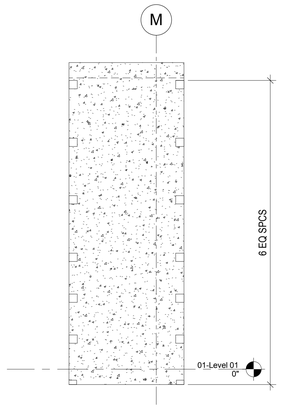
B2 SF201 PANEL 8
SCALE: 1/8" = 1'-0"



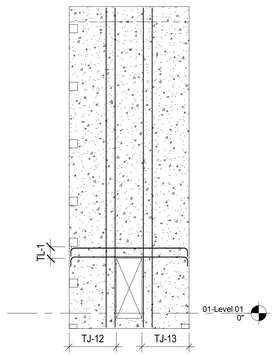
B3 SF201 PANEL 9
SCALE: 1/8" = 1'-0"



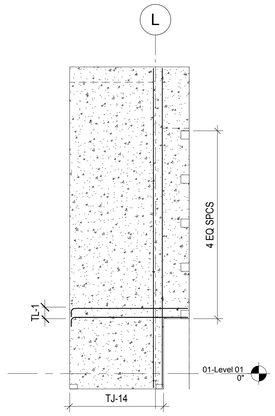
B4 SF201 PANEL 10
SCALE: 1/8" = 1'-0"



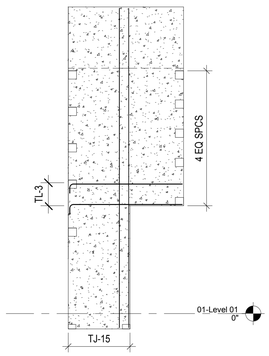
B5 SF201 PANEL 11
SCALE: 1/8" = 1'-0"



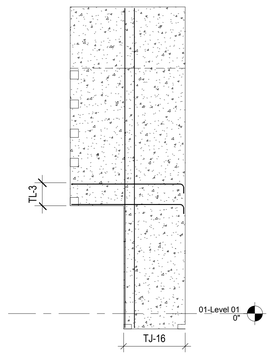
B6 SF201 PANEL 12
SCALE: 1/8" = 1'-0"



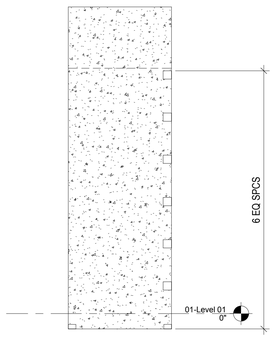
A1 SF201 PANEL 13
SCALE: 1/8" = 1'-0"



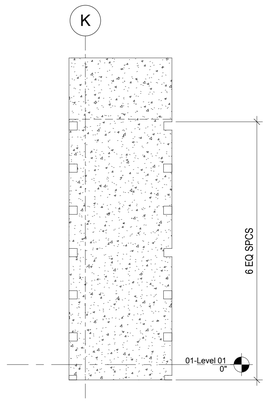
A2 SF201 PANEL 14
SCALE: 1/8" = 1'-0"



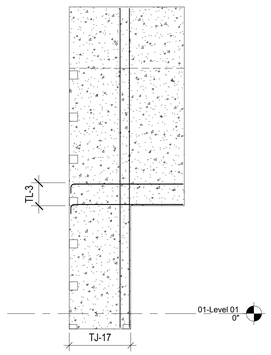
A3 SF201 PANEL 15
SCALE: 1/8" = 1'-0"



A4 SF201 PANEL 16
SCALE: 1/8" = 1'-0"



A5 SF201 PANEL 17
SCALE: 1/8" = 1'-0"



A6 SF201 PANEL 18
SCALE: 1/8" = 1'-0"

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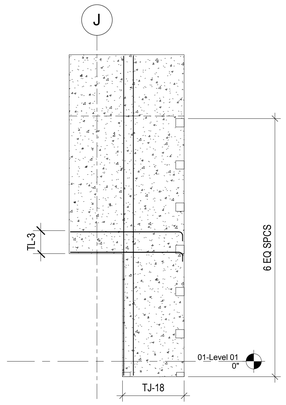
revisions :

TILT-UP PANEL ELEVATIONS

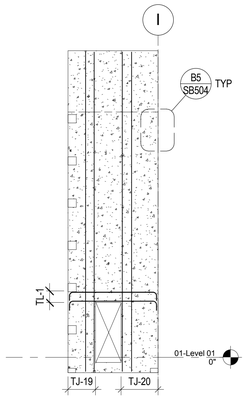
sheet:

SF201

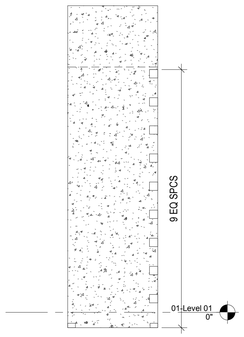
100% Construction Documents



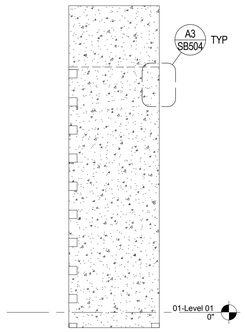
D1 / SF202 PANEL 19
SCALE: 1/8" = 1'-0"



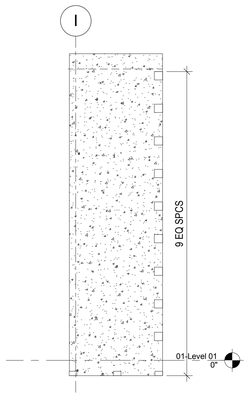
D2 / SF202 PANEL 20
SCALE: 1/8" = 1'-0"



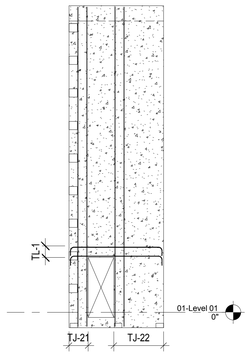
D3 / SF202 PANEL 21
SCALE: 1/8" = 1'-0"



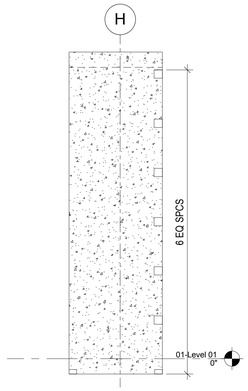
D4 / SF202 PANEL 22
SCALE: 1/8" = 1'-0"



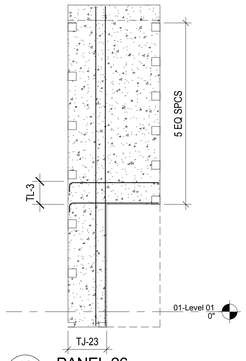
D5 / SF202 PANEL 23
SCALE: 1/8" = 1'-0"



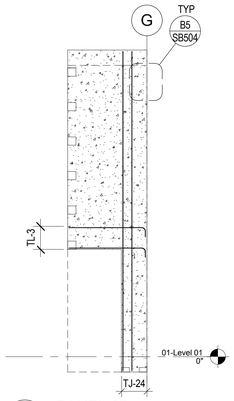
D6 / SF202 PANEL 24
SCALE: 1/8" = 1'-0"



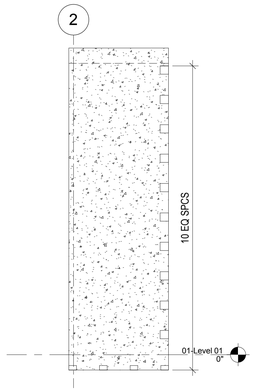
B1 / SF202 PANEL 25
SCALE: 1/8" = 1'-0"



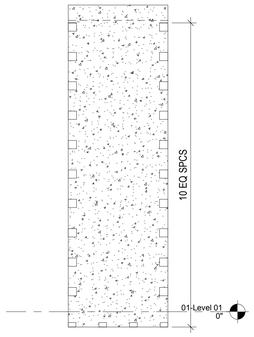
B2 / SF202 PANEL 26
SCALE: 1/8" = 1'-0"



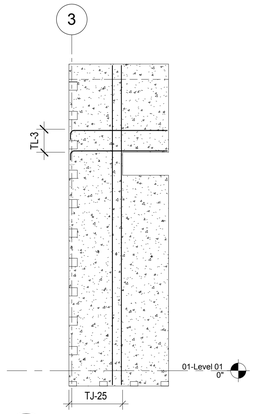
B3 / SF202 PANEL 27
SCALE: 1/8" = 1'-0"



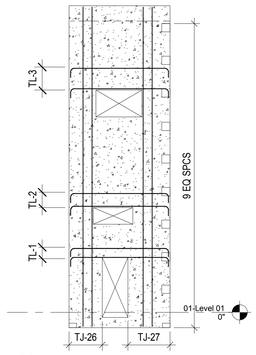
B4 / SF202 PANEL 28
SCALE: 1/8" = 1'-0"



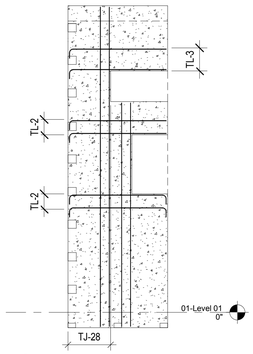
B5 / SF202 PANEL 29
SCALE: 1/8" = 1'-0"



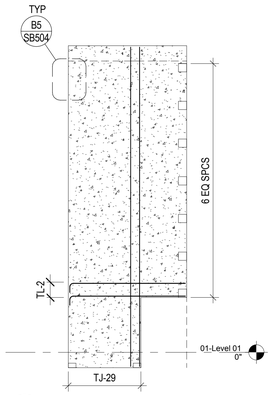
B6 / SF202 PANEL 30
SCALE: 1/8" = 1'-0"



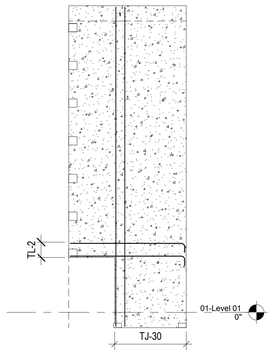
A1 / SF202 PANEL 31
SCALE: 1/8" = 1'-0"



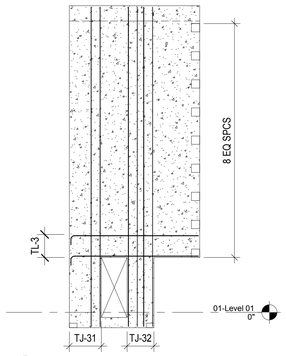
A2 / SF202 PANEL 32
SCALE: 1/8" = 1'-0"



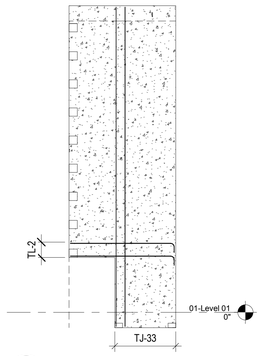
A3 / SF202 PANEL 33
SCALE: 1/8" = 1'-0"



A4 / SF202 PANEL 34
SCALE: 1/8" = 1'-0"



A5 / SF202 PANEL 35
SCALE: 1/8" = 1'-0"



A6 / SF202 PANEL 36
SCALE: 1/8" = 1'-0"

CONCRETE TILT-UP PANEL LEGEND

- TILT-UP PANEL CONNECTION SEE B1/SB504
- TILT-UP PANEL TO FOOTING CONNECTION SEE D2/SB505

CONCRETE TILT-UP PANEL ELEVATION NOTES

1. SEE SB504 FOR TYPICAL CONCRETE TILT-UP PANEL REINFORCING SCHEDULE, OPENING REINFORCING SCHEDULE & TYPICAL DETAILS.

2. TOP TILT-UP PANEL CONNECTION SHALL BE 6" BELOW DECK BEARING.

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Consulting Structural Engineers

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TILT-UP PANEL ELEVATIONS

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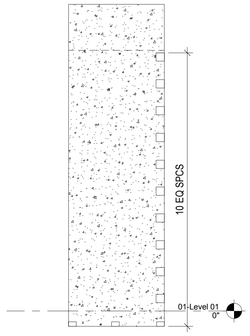
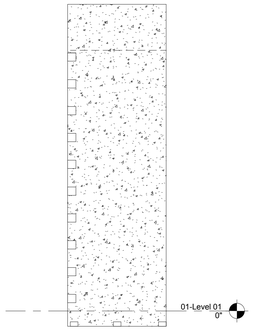
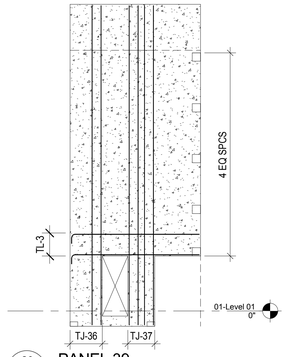


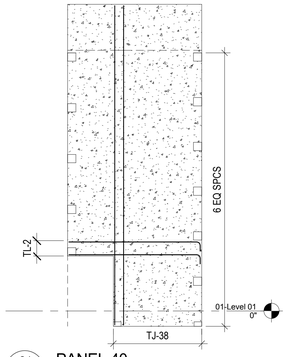
C1 / SF203 PANEL 37
SCALE: 1/8" = 1'-0"



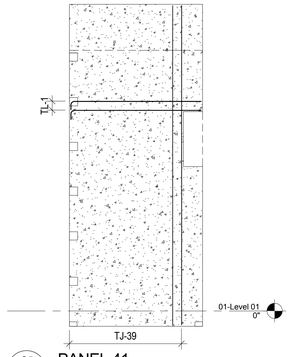
C2 / SF203 PANEL 38
SCALE: 1/8" = 1'-0"



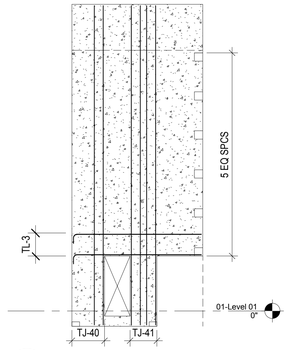
C3 / SF203 PANEL 39
SCALE: 1/8" = 1'-0"



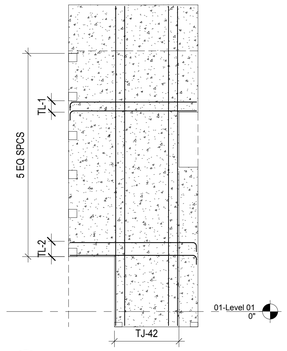
C4 / SF203 PANEL 40
SCALE: 1/8" = 1'-0"



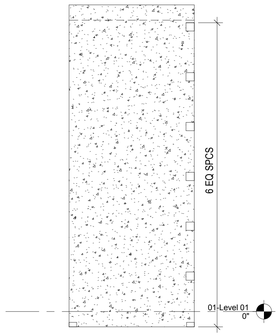
C5 / SF203 PANEL 41
SCALE: 1/8" = 1'-0"



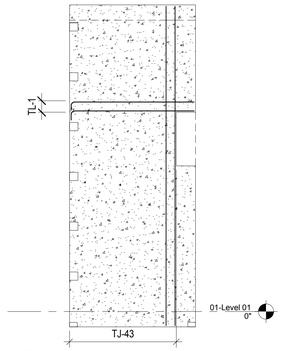
C6 / SF203 PANEL 42
SCALE: 1/8" = 1'-0"



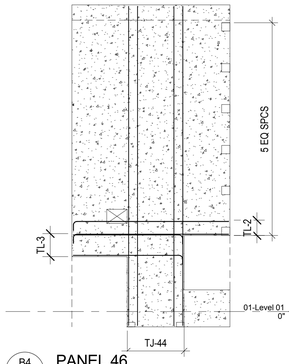
B1 / SF203 PANEL 43
SCALE: 1/8" = 1'-0"



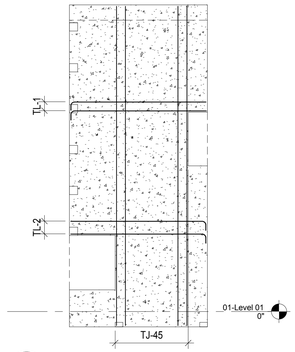
B2 / SF203 PANEL 44
SCALE: 1/8" = 1'-0"



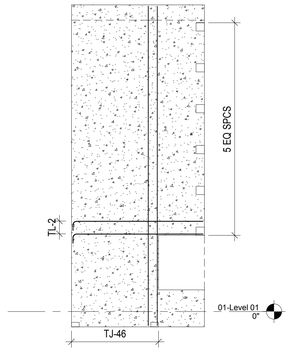
B3 / SF203 PANEL 45
SCALE: 1/8" = 1'-0"



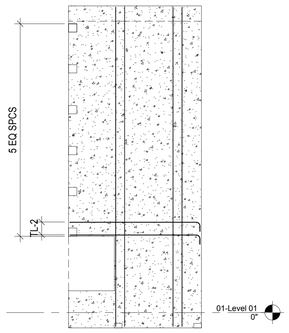
B4 / SF203 PANEL 46
SCALE: 1/8" = 1'-0"



B5 / SF203 PANEL 47
SCALE: 1/8" = 1'-0"



B6 / SF203 PANEL 48
SCALE: 1/8" = 1'-0"



A1 / SF203 PANEL 49
SCALE: 1/8" = 1'-0"

CONCRETE TILT-UP PANEL LEGEND

- TILT-UP PANEL CONNECTION SEE B1/SB504
- TILT-UP PANEL TO FOOTING CONNECTION SEE D2/SB505

CONCRETE TILT-UP PANEL ELEVATION NOTES

1. SEE SB504 FOR TYPICAL CONCRETE TILT-UP PANEL REINFORCING SCHEDULE, OPENING REINFORCING SCHEDULE & TYPICAL DETAILS.

2. TOP TILT-UP PANEL CONNECTION SHALL BE 6" BELOW DECK BEARING.

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TILT-UP PANEL ELEVATIONS

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SF203

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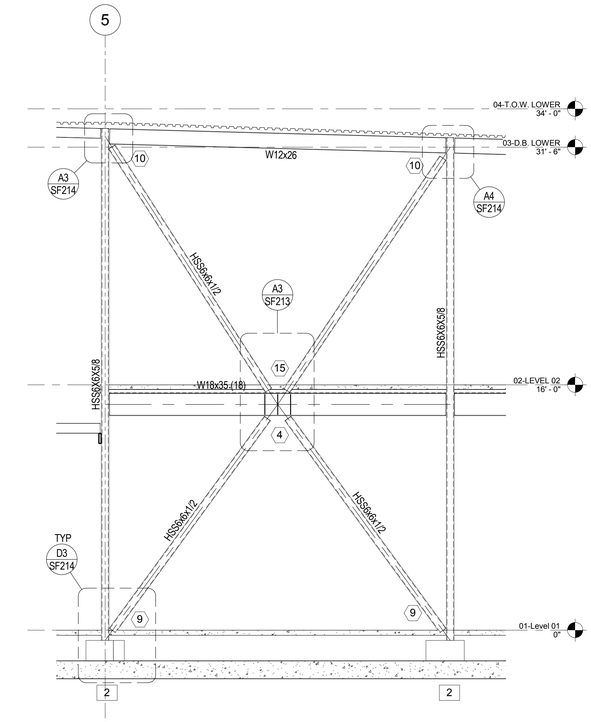
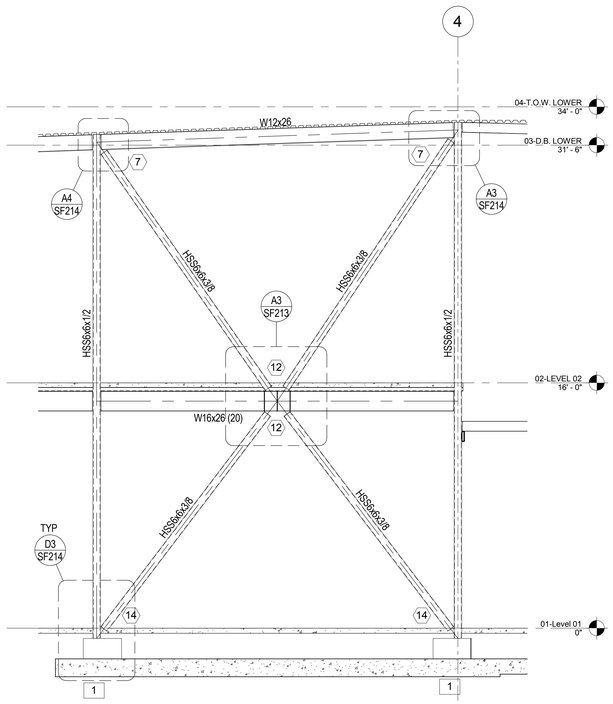


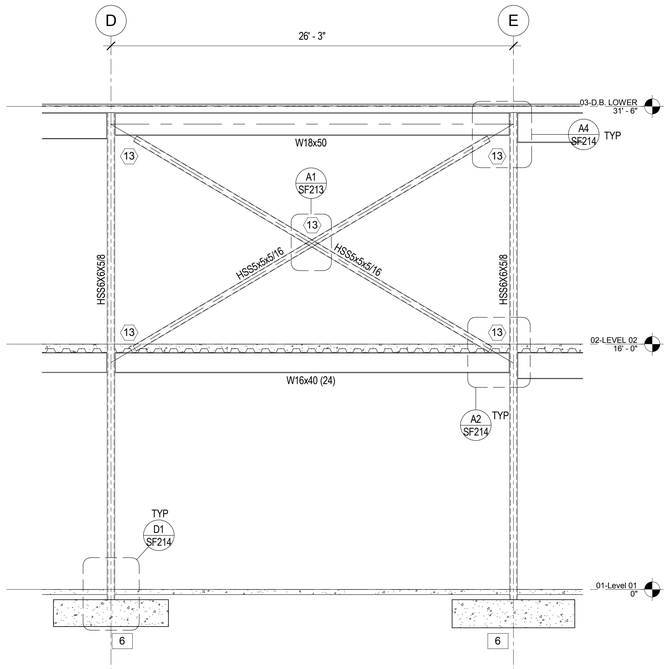
C1 SF211 BRACED FRAME ELEVATION - ALONG GRID A

SCALE: 1/4" = 1'-0"



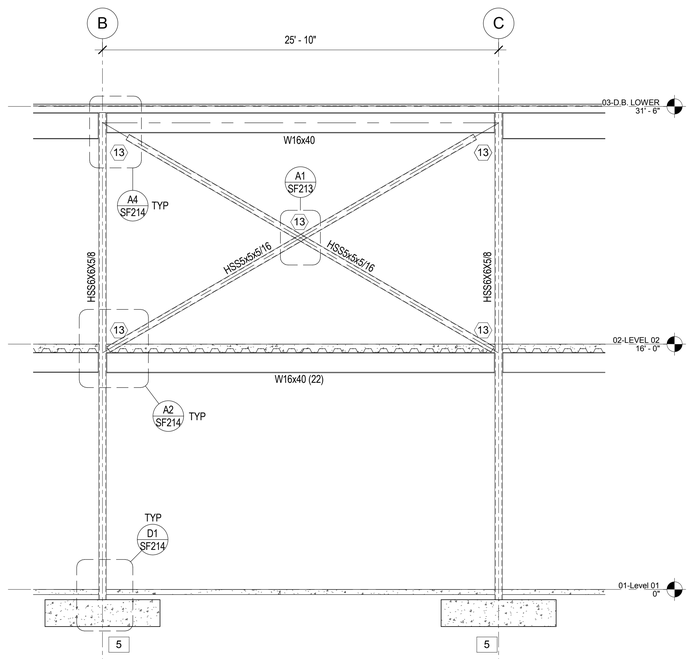
C3 SF211 BRACED FRAME ELEVATION - ALONG GRID A

SCALE: 1/4" = 1'-0"



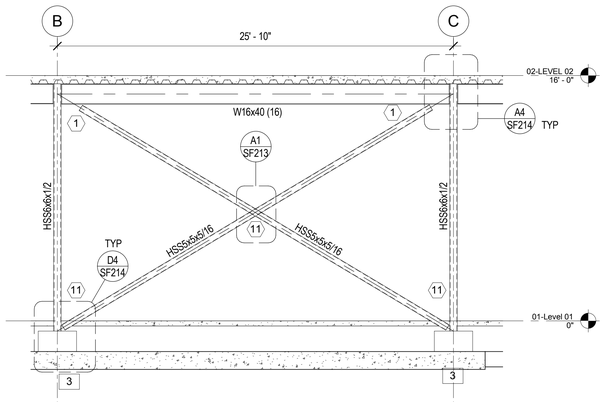
A1 SF211 BRACED FRAME ELEVATION - ALONG GRID 3

SCALE: 1/4" = 1'-0"



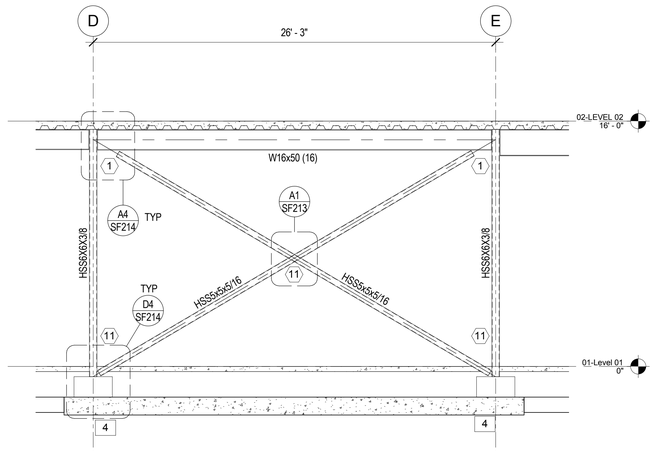
A3 SF211 BRACED FRAME ELEVATION - ALONG GRID 3

SCALE: 1/4" = 1'-0"



B4 SF211 BRACED FRAME ELEVATION - ALONG GRID 2

SCALE: 1/4" = 1'-0"



A4 SF211 BRACED FRAME ELEVATION - ALONG GRID 2

SCALE: 1/4" = 1'-0"

BRACED FRAME ELEVATION NOTES AND LEGEND

1. ALL W-SHAPED BRACED FRAME MEMBERS SHALL BE ASTM A992 (Fy = 50KSI) STEEL, U.N.O.

2. ALL HSS-SHAPED BRACED FRAME MEMBERS SHALL BE ASTM A500 GRADE B (Fy = 46KSI) STEEL, U.N.O.

3. ⟨?⟩ INDICATES BRACED FRAME CONNECTION MARK. SEE C1/SF213 FOR BRACED FRAME CONNECTION SCHEDULE.

4. [?] INDICATES STEEL BASE PLATE MARK. SEE C3/SF213 FOR SCHEDULE.

5. VERIFY ALL DATUM ELEVATIONS W/ ARCHITECTURAL DRAWINGS.

LICENSED CERTIFIED STRUCTURAL ENGINEER
NO. 176778
MARK R. HARRIS
UTAH

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BRACED FRAME ELEVATIONS

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SF211

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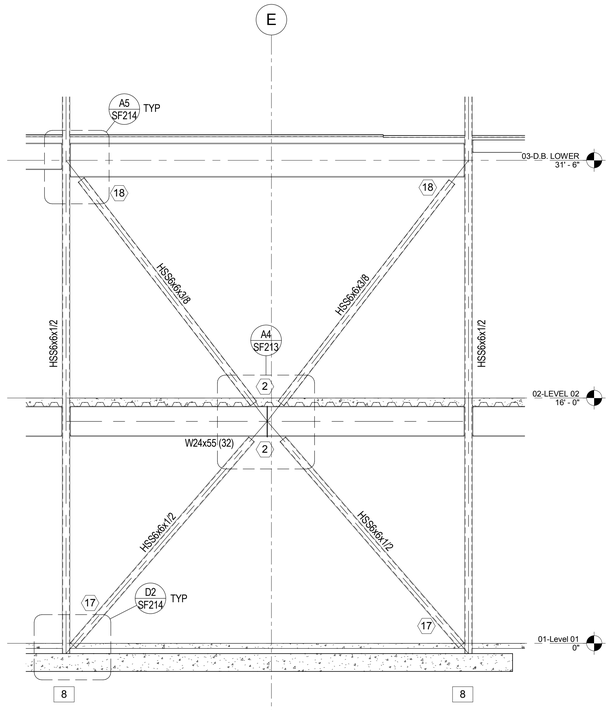
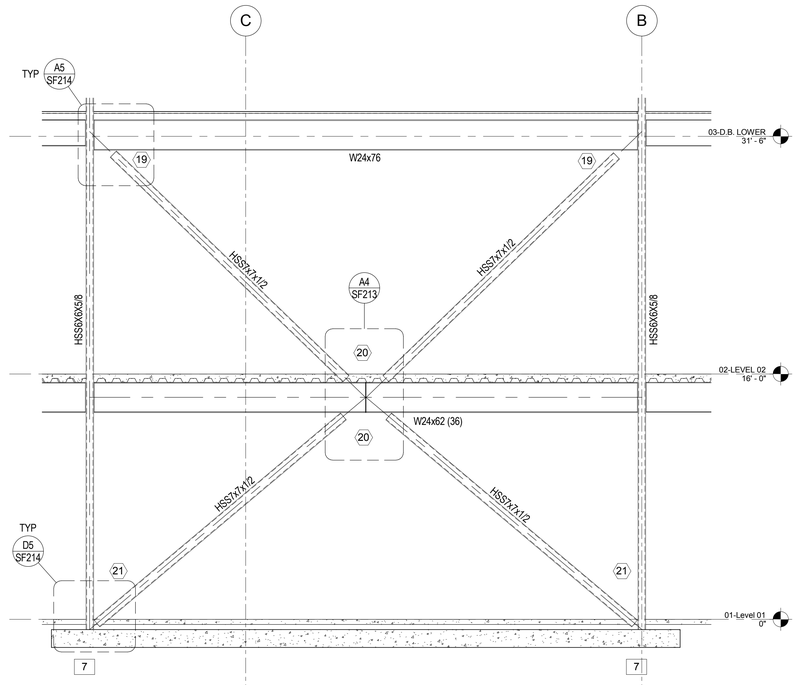


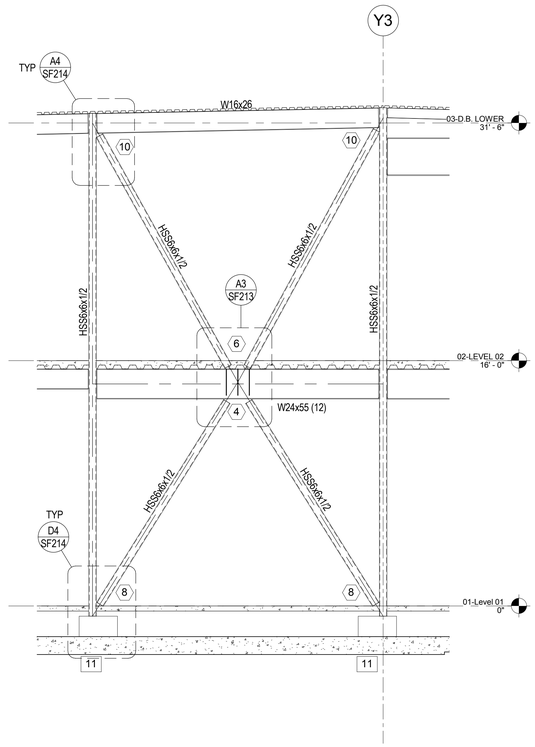
C2 SF212 BRACED FRAME ELEVATION - ALONG GRID 5

SCALE: 1/4" = 1'-0"



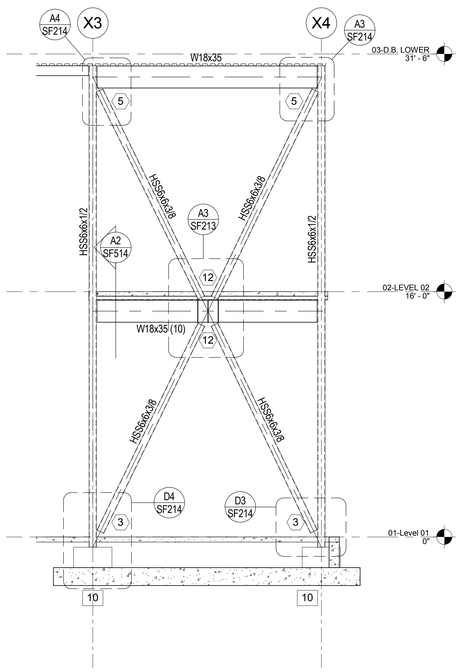
C3 SF212 BRACED FRAME ELEVATION - ALONG GRID 4

SCALE: 1/4" = 1'-0"



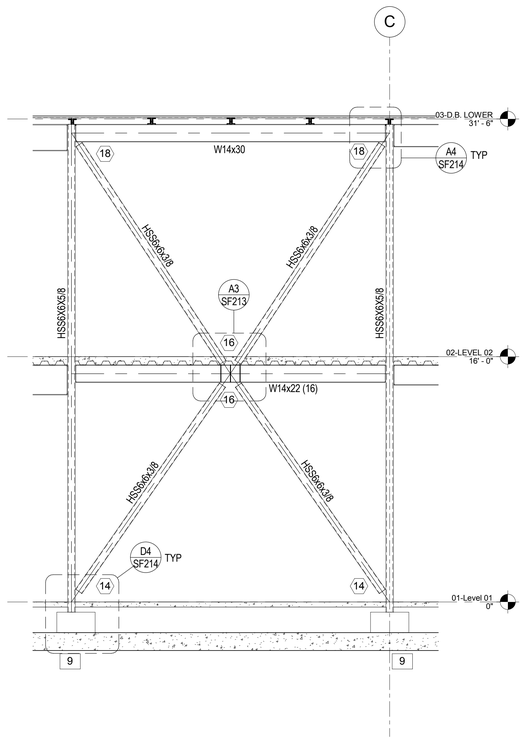
A2 SF212 BRACED FRAME ELEVATION - ALONG GRID R

SCALE: 1/4" = 1'-0"



A3 SF212 BRACED FRAME ELEVATION - ALONG GRID 8

SCALE: 1/4" = 1'-0"



A4 SF212 BRACED FRAME ELEVATION - ALONG GRID 6

SCALE: 1/4" = 1'-0"

BRACED FRAME ELEVATION NOTES AND LEGEND

1. ALL W-SHAPED BRACED FRAME MEMBERS SHALL BE ASTM A992 (Fy = 50KSI) STEEL, U.N.O.

2. ALL HSS-SHAPED BRACED FRAME MEMBERS SHALL BE ASTM A500 GRADE B (Fy = 46KSI) STEEL, U.N.O.

3. ⟨?⟩ INDICATES BRACED FRAME CONNECTION MARK. SEE C1/SF213 FOR BRACED FRAME CONNECTION SCHEDULE.

4. [?] INDICATES STEEL BASE PLATE MARK. SEE C3/SF213 FOR SCHEDULE.

5. VERIFY ALL DATUM ELEVATIONS W/ ARCHITECTURAL DRAWINGS.

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BRACED FRAME ELEVATIONS

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SPECIAL CONCENTRICALLY BRACED FRAME CONNECTION SCHEDULE - TUBE BRACES

MARK	WELDING CRITERIA					GUSSET PLATE		COVER PLATE			NOTES
	T1 WELD THICKNESS	T2 WELD THICKNESS	T3 WELD THICKNESS	T4 WELD THICKNESS	L1 WELD LENGTH	GUSSET PLATE THICKNESS (tg)	GUSSET PLATE WIDTH	COVER PLATE SIZE	T5 WELD THICKNESS	L5 WELD LENGTH	
1	3/8	1/4	5/8	N/A	11	1.1/8	18	3.5x0.5	7/16	4	
2	7/16	N/A	N/A	11/16	13	7/8	13	4.5x0.5	7/16	5.5	1 WEB STIFFENER
3	7/16	7/16	7/16	N/A	13	1	12	4.5x0.5	7/16	5.5	
4	7/16	N/A	N/A	9/16	17	7/8	17	4x0.625	7/16	6	3 WEB STIFFENER
5	7/16	9/16	3/8	N/A	13	7/8	18	4.5x0.5	7/16	5.5	
6	7/16	N/A	N/A	1/2	17	7/8	18	4x0.625	7/16	6	
7	7/16	7/16	7/16	N/A	13	7/8	21	4.5x0.5	7/16	5.5	
8	7/16	7/16	7/16	N/A	17	7/8	21	4x0.625	7/16	6	
9	7/16	1/2	9/16	N/A	17	1	19	4x0.625	7/16	6.5	
10	7/16	1/2	7/16	N/A	17	7/8	25	4x0.625	7/16	6	
11	3/8	5/16	3/8	N/A	11	3/4	16	3.5x0.375	5/16	5.5	
12	7/16	N/A	N/A	1/2	13	3/4	16	4.5x0.5	7/16	5.5	3 WEB STIFFENER
13	3/8	1/4	1/2	N/A	11	3/4	18	3.5x0.375	5/16	5.5	
14	7/16	3/8	7/16	N/A	13	3/4	20	4.5x0.5	7/16	5.5	
15	7/16	N/A	N/A	1/2	17	3/4	20	4x0.5	7/16	6	3 WEB STIFFENER
16	7/16	N/A	N/A	7/16	13	3/4	20	4.5x0.5	7/16	5.5	3 WEB STIFFENER
17	7/16	3/8	7/16	N/A	13	3/4	21	4.5x0.5	7/16	5.5	
18	7/16	7/16	7/16	N/A	13	3/4	22	4.5x0.5	7/16	5.5	
19	7/16	7/16"	5/8"	N/A	20	1.1/8"	27	5x0.5	7/16	7.5	
20	7/16	N/A	N/A	13/16"	20	1.1/4"	14	5x0.5	7/16	7.5	1 WEB STIFFENER
21	7/16	7/16"	1/2"	N/A	20	7/8"	29	5x0.5	7/16	7	

NOTES:
1. ALL GUSSET PLATES SHALL BE A572 GRADE 50 STEEL.
2. ALL COVER PLATES SHALL BE A572 GRADE 50 STEEL, SEE A2/SF403 FOR DETAIL.

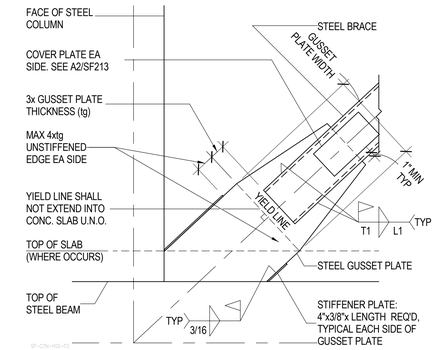
C1 / SF213 SPECIAL CONCENTRICALLY BRACED FRAME CONNECTION SCHEDULE - TUBE BRACES
NO SCALE

BRACED FRAME BASE PLATE & ANCHOR BOLT SCHEDULE

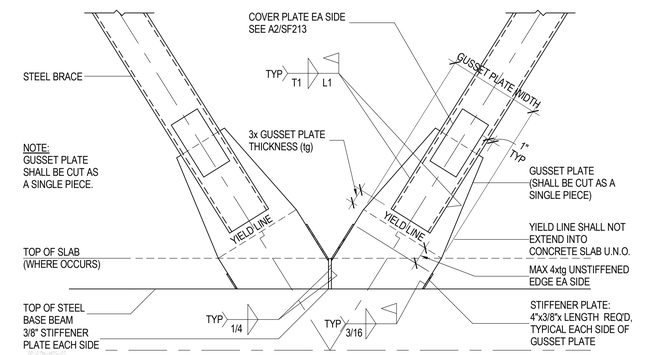
MARK	BASE PLATE					ANCHOR BOLTS				T5 WELD THICKNESS	NOTES
	N1 LENGTH	N2 LENGTH	B WIDTH	THICKNESS	C DISTANCE	NUMBER	SIZE	EMBED DEPTH	GRADE		
1	21	--	12	1.1/2"	6	6	1	26	F1554 GR36	5/8"	A=1.3/4"
2	20	--	12	2"	6	6	1.1/4	26	F1554 GR36	13/16"	A=1.3/4"
3	25	--	12	1.1/4"	6	6	3/4	26	F1554 GR36	3/8"	
4	25	--	12	1.1/4"	6	6	3/4	26	F1554 GR36	3/8"	
5	12	--	12	1"	6	4	3/4	10	F1554 GR36	3/8"	
6	12	--	12	1"	6	4	3/4	10	F1554 GR36	3/8"	
7	31	--	12	2.1/4"	6	6	3/4	26	F1554 GR36	3/4"	
8	22	--	12	1.1/2"	6	6	3/4	26	F1554 GR36	9/16"	
9	19	--	12	1.1/2"	6	6	3/4	26	F1554 GR36	5/8"	
10	15	--	12	7/8"	6	6	3/4	26	F1554 GR36	11/16"	
11	21	--	12	1.1/2	6	6	3/4	26	F1554 GR36	3/4"	

NOTES:
1. ALL BASE PLATES SHALL BE A572 GRADE 50 STEEL.

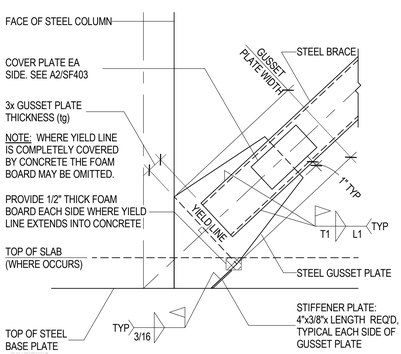
C3 / SF213 BRACED FRAME BASE PLATE & ANCHOR BOLT SCHEDULE
NO SCALE



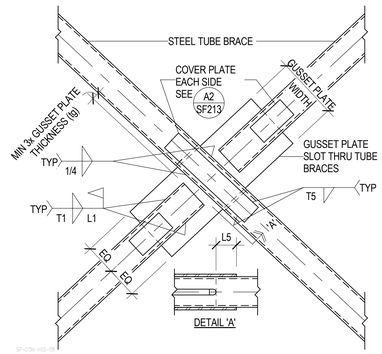
C5 / SF213 TYPICAL GUSSET PLATE CONNECTION AT STEEL BEAM
NO SCALE



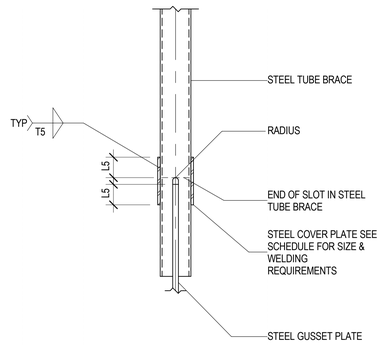
B4 / SF213 TYPICAL STEEL GUSSET PLATE CONNECTION AT STEEL BEAM
NO SCALE



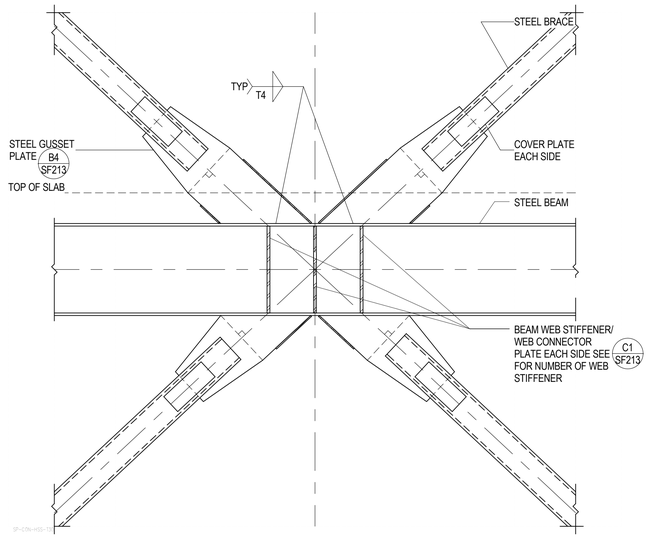
B1 / SF213 TYPICAL STEEL GUSSET PLATE CONNECTION AT STEEL BASE PLATE
NO SCALE



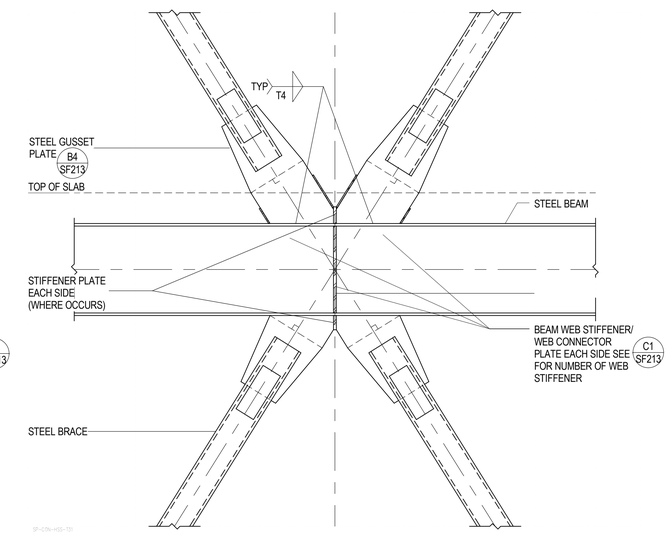
A1 / SF213 TYPICAL BRACED FRAME DETAIL
NO SCALE



A2 / SF213 TYPICAL STEEL TUBE BRACE COVER PLATE
NO SCALE



A3 / SF213 TYPICAL BRACED FRAME DETAIL
NO SCALE



A4 / SF213 TYPICAL BRACED FRAME DETAIL
NO SCALE

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BRACED FRAME DETAILS

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SF213

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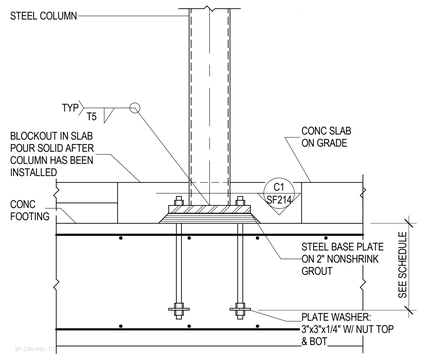
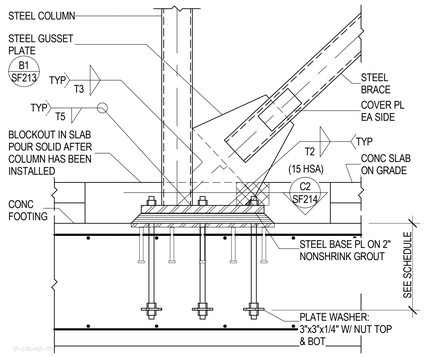


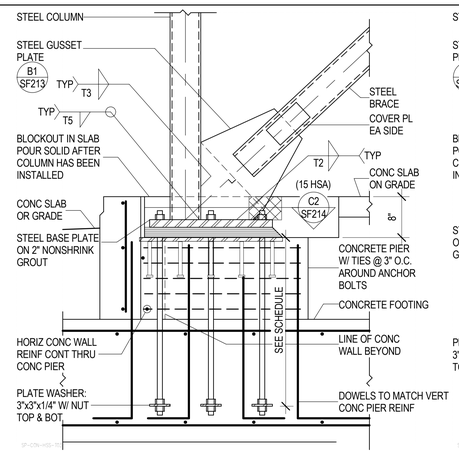
D1 / SF214 TYPICAL BRACED FRAME COLUMN BASE AT CONCRETE FOOTING

NO SCALE



D2 / SF214 TYPICAL BRACED FRAME COLUMN BASE AT CONCRETE FOOTING

NO SCALE



D3 / SF214 TYPICAL BRACED FRAME COLUMN BASE AT CONCRETE PIER

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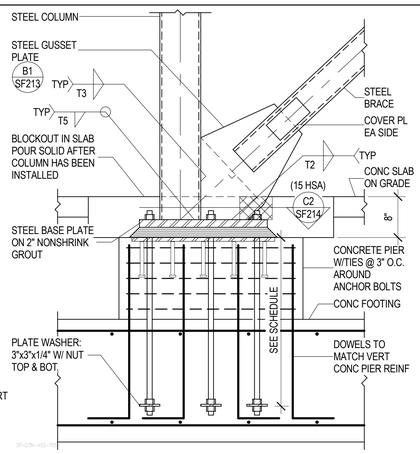

D4 / SF214 TYPICAL BRACED FRAME COLUMN BASE AT CONCRETE PIER

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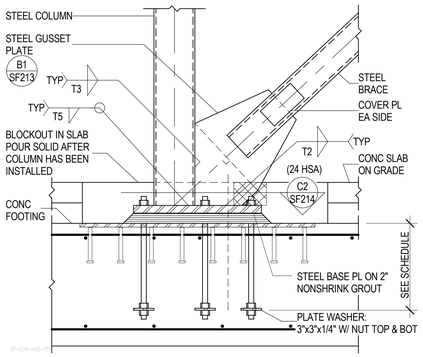
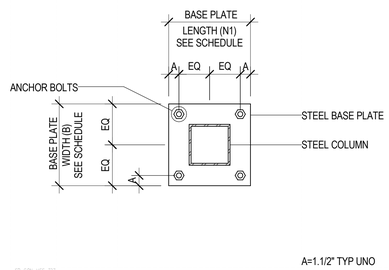


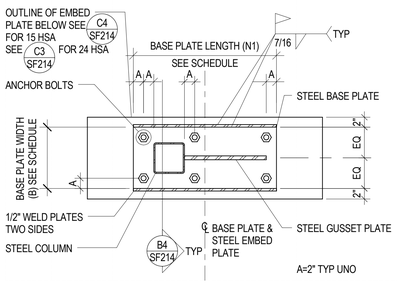
D5 / SF214 TYPICAL BRACED FRAME COLUMN BASE AT CONCRETE FOOTING

NO SCALE



C1 / SF214 TYPICAL BRACED FRAME COLUMN BASE PLATE (PLAN VIEW)

NO SCALE



C2 / SF214 TYPICAL BRACED FRAME COLUMN BASE PLATE (PLAN VIEW)

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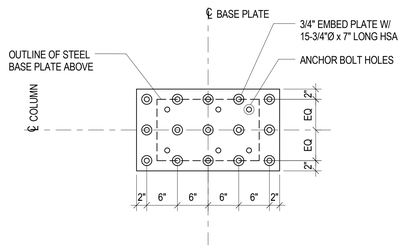
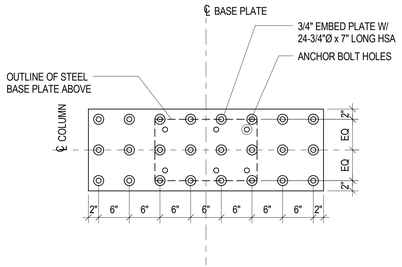


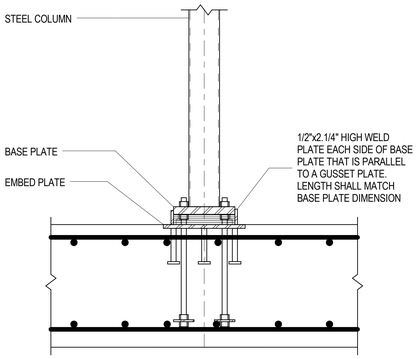
C3 / SF214 TYPICAL BRACED FRAME COLUMN BASE PLATE EMBED - 15 HSA

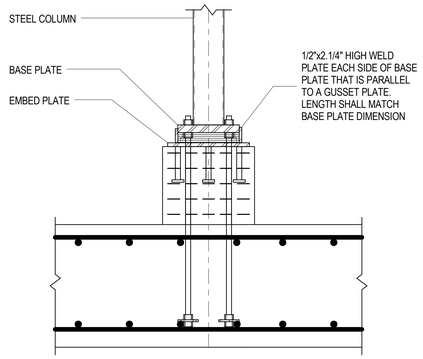
NO SCALE



C4 / SF214 TYPICAL BRACED FRAME COLUMN BASE PLATE EMBED - 24 HSA

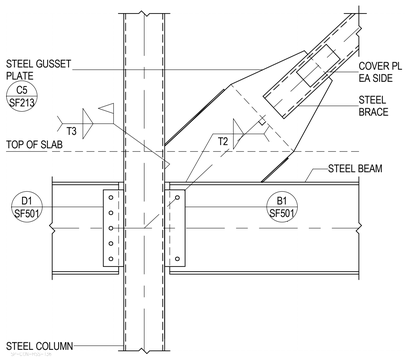
NO SCALE





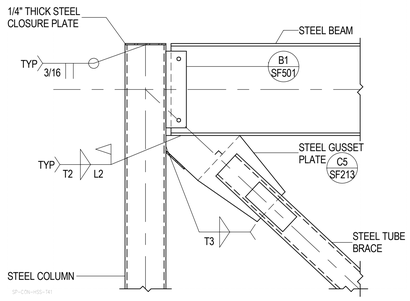
B4 / SF214 TYPICAL BRACED FRAME COLUMN BASE

NO SCALE



A2 / SF214 TYPICAL BRACED FRAME DETAIL

NO SCALE



A3 / SF214 TYPICAL BRACED FRAME DETAIL

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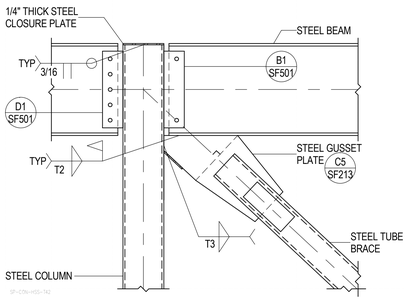
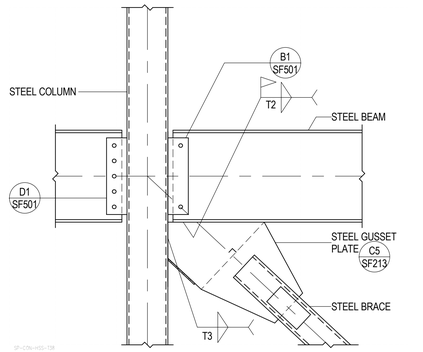


A4 / SF214 TYPICAL BRACED FRAME DETAIL

NO SCALE



A5 / SF214 TYPICAL BRACED FRAME DETAIL

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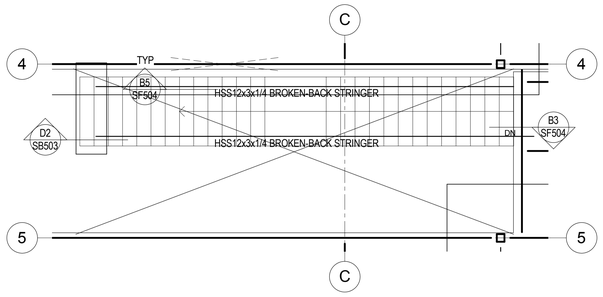
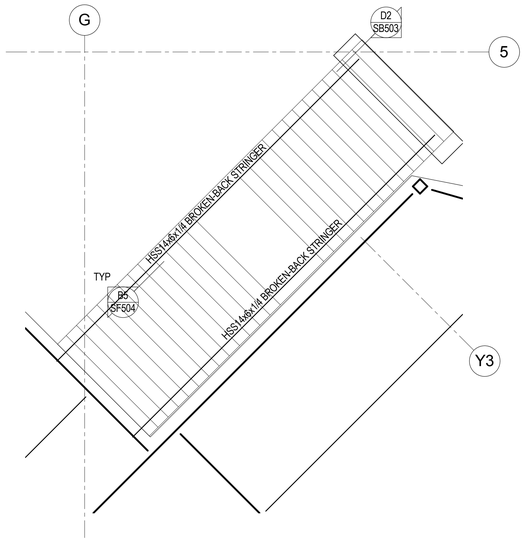


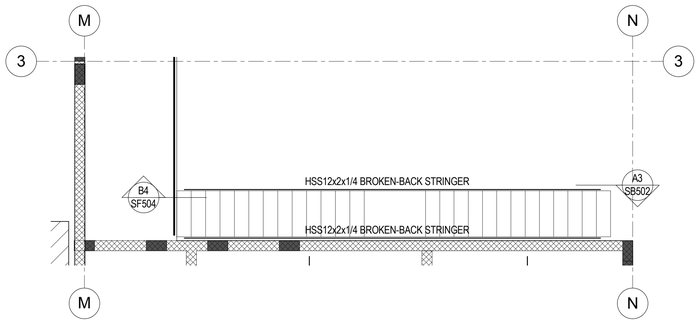
C1 SF401 ENLARGED STAIR FRAMING PLAN - AREA 1

SCALE: 1/4" = 1'-0"



C3 SF401 ENLARGED STAIR FRAMING PLAN - AREA 2

SCALE: 1/4" = 1'-0"



C4 SF401 ENLARGED STAIR FRAMING PLAN - AREA 3

SCALE: 1/4" = 1'-0"

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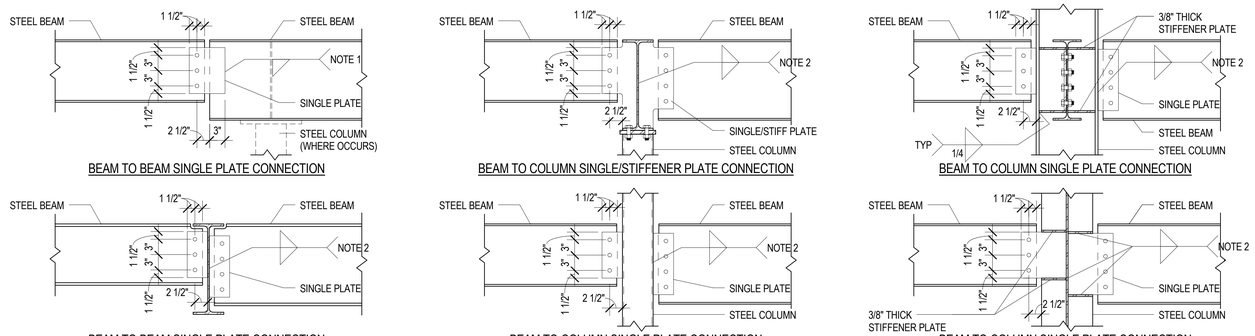
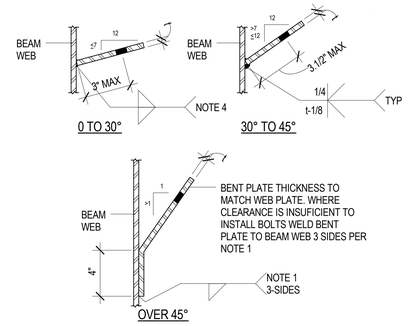


D1 / SF501 TYPICAL SINGLE PLATE CONNECTION DETAILS AND SCHEDULE

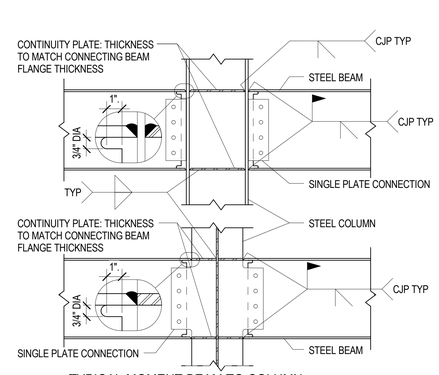
NO SCALE



SKEWED SINGLE PLATE CONNECTION (PLAN VIEW)

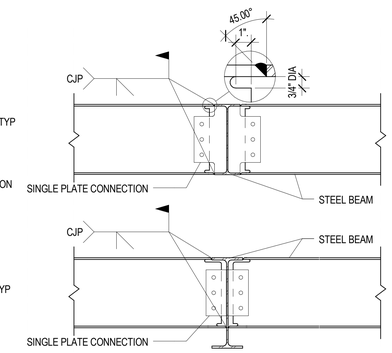
SINGLE PLATE CONNECTION SCHEDULE			
BEAM SIZE	WEB PLATE THICKNESS (t)	A325N BOLTS	
		NUMBER	SIZE
W8 AND W10	3/8"	2	7/8"Ø
W12 AND W14	3/8"	3	7/8"Ø
W16	3/8"	4	7/8"Ø
W18	3/8"	5	7/8"Ø
W21	1/2"	6	7/8"Ø
W24	1/2"	7	7/8"Ø
W27	1/2"	8	7/8"Ø
W30	1/2"	9	7/8"Ø
W33	1/2"	10	7/8"Ø
W36	1/2"	11	7/8"Ø

NOTES:
1. FILLET WELDS ONE SIDE SHALL EQUAL THE PLATE THICKNESS MINUS 1/16" (1/4" MIN.)
2. FILLET WELDS TWO SIDES SHALL BE 5/8 THE PLATE THICKNESS (1/4" MIN.) EACH SIDE
3. BOLT EDGE DISTANCE SHALL BE 1.1/2" AT ALL EDGES. BOLT SPACING SHALL BE 3" MIN.
4. AT SKEWED JOINTS PROVIDE AN EQUIVALENT LEG SIZE TO NOTE 2 PER AWS D1.1.



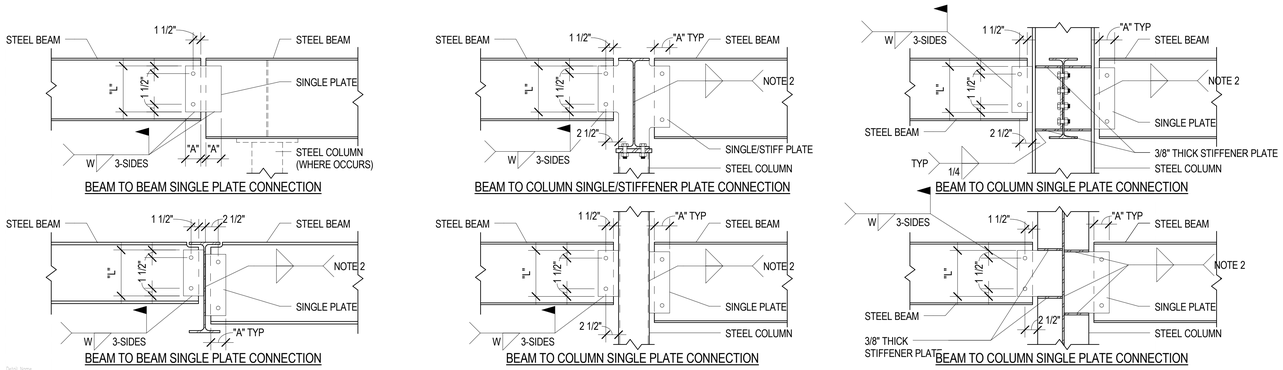
C4 / SF501 TYPICAL MOMENT BEAM TO COLUMN CONNECTION DETAILS

NO SCALE



C5 / SF501 TYPICAL MOMENT BEAM TO BEAM CONNECTION DETAILS

NO SCALE

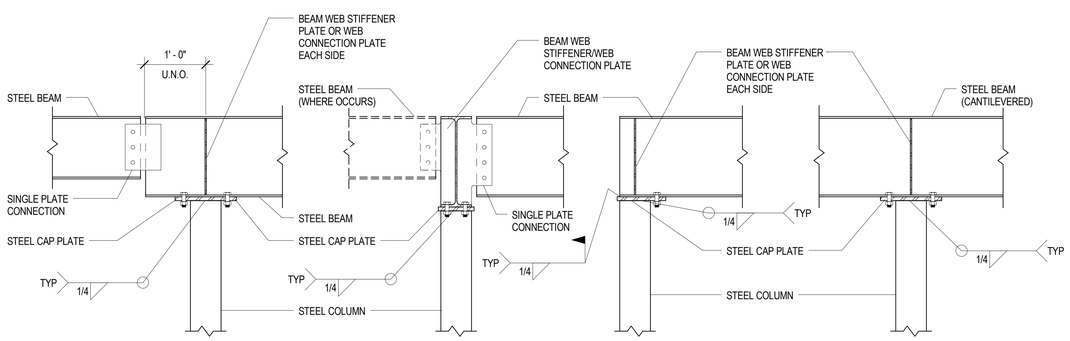


B1 / SF501 TYPICAL WELD SINGLE PLATE COLLECTOR/CHORD CONNECTION DETAILS AND SCHEDULE

NO SCALE

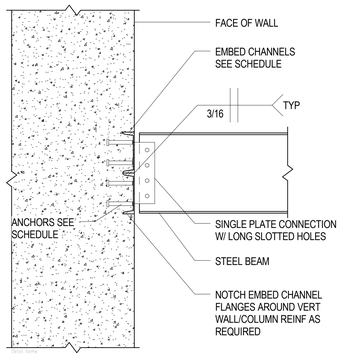
SINGLE PLATE COLLECTOR/CHORD CONNECTION SCHEDULE					
BEAM SIZE	WEB PLATE				ERECTION BOLTS
	"L"	"A"	WELD "W"	THICKNESS	
W8x10	6"	3.1/2"	5/16"	3/8"	2
W14x22	10"	3.1/2"	5/16"	3/8"	2
W16x26	12"	3.1/2"	5/16"	3/8"	2
W16x31	12"	3.1/2"	5/16"	3/8"	2
W24x68	18"	3.1/2"	5/16"	1/2"	2

NOTES:
1. ERECTION BOLT SHALL BE 7/8"Ø A325N BOLTS.
2. FILLET WELDS TWO SIDES SHALL BE 3/4 THE PLATE THICKNESS (1/4" MIN.) EACH SIDE
3. BOLT EDGE DISTANCE SHALL BE 1.1/2" AT ALL EDGES U.N.O.



A1 / SF501 TYPICAL STEEL BEAM BEARING ON STEEL COLUMN

NO SCALE



CONNECTION SCHEDULE		
BEAM DEPTH	EMBED CHANNEL	ANCHORS
TO 10"	1-C8x18.75x12"	4-3/4"Ø x 5" STUDS
TO 16"	2-C8x18.75x12"	8-3/4"Ø x 5" STUDS
TO 24"	3-C8x18.75x12"	12-3/4"Ø x 5" STUDS

NOTES:
1. WELD MULTIPLE EMBEDS TOGETHER WITH BUTT WELD EACH SIDE, FULL LENGTH.

A4 / SF501 TYPICAL EMBED CHANNEL CONNECTION SCHEDULE

NO SCALE

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project:
TOOELE APPLIED TECHNOLOGY COLLEGE - NEW BUILDING

88 South Tooele Blvd
Tooele, UT 84074

project#: 11.0420
date: 1/20/12

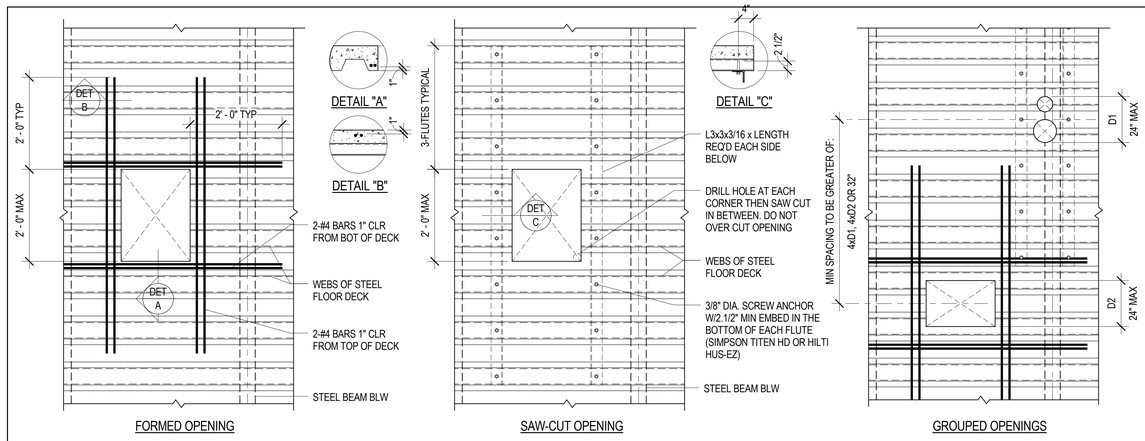
revisions :

TYPICAL STEEL FRAMING DETAILS

sheet:

SF501

100% Construction Documents



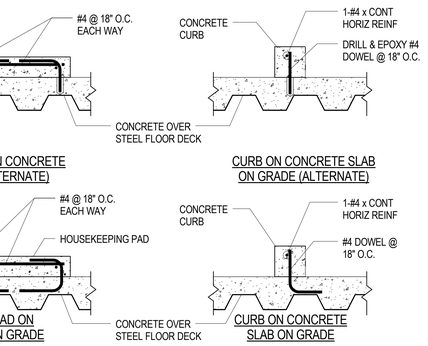
NOTES:
1. UNREINFORCED OPENINGS
A. OPENINGS UP TO 6" DIA. DO NOT REQUIRE REINFORCING PROVIDED THEY ARE NOT SPACED LESS THAN 32" O.C.

2. FORMED OPENINGS
A. LEAVE METAL DECK INTACT. PLACE REBAR & FORM OPENING. REMOVE METAL DECK ONCE CONCRETE REACHES 2500psi

3. SAW-CUT OPENINGS
A. SHIM GAPS BETWEEN ANGLE AND BOTTOM FLUTE.
B. INSTALL ANCHORS PER ICC REPORT.

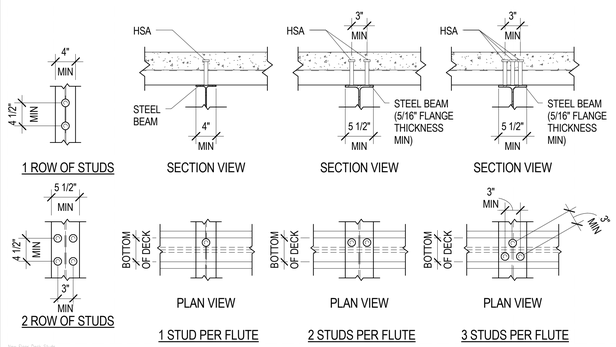
4. GROUPED OPENINGS
A. OPENINGS SPACED CLOSER THAN THE MIN SPACING SHALL BE REINFORCED AS A SINGLE OPENING.
B. THE SIZE OF OPENINGS MEASURED PARALLEL TO THE DECK FLUTES IS NOT LIMITED.

D1 SF502 TYPICAL MISCELLANEOUS FLOOR OPENING REINFORCING DETAIL FOR TYPE 'W' DECK (UP TO 24")
NO SCALE

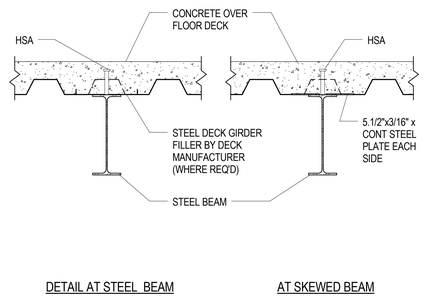


NOTE:
CONTROL JOINTS SHALL BE LOCATED AT INTERIOR COLUMN LINES.

D4 SF502 TYPICAL COMPOSITE DECK CONTROL JOINTS
NO SCALE

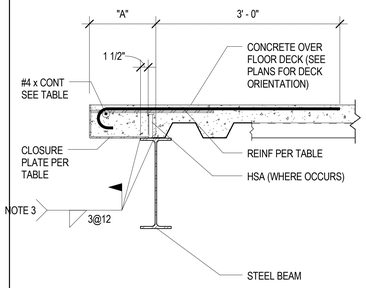


C1 SF502 TYPICAL STUD PLACEMENT DIAGRAMS
NO SCALE



C2 SF502 TYPICAL COMPOSITE DECK BEARING DETAIL AT STEEL BEAM (DECK GIRDER FILLER)
NO SCALE

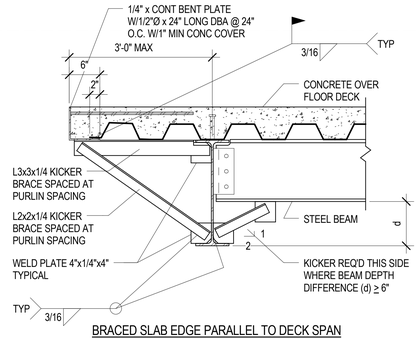
C3 SF502 TYPICAL HOUSEKEEPING PAD & CURB DETAILS
NO SCALE

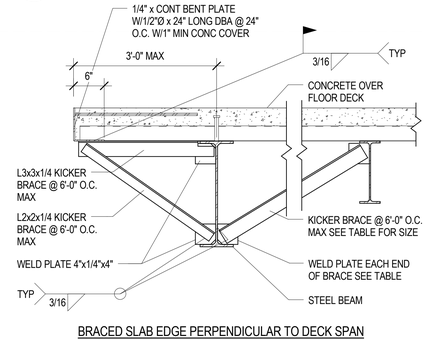


BENT PLATE SLAB EDGE DETAIL

DECK EDGE SCHEDULE			
"A"	DECK CLOSURE PLATE		REINFORCING
	THICKNESS	ANCHORS	
0" TO 6"	3/16"	1/2" Ø x 18" LONG DBA @ 24" O.C.	NONE
6" TO 12"	3/16"	1/2" Ø x 24" LONG DBA @ 24" O.C.	#4 @ 12" O.C.
12" TO 15"	1/4"	1/2" Ø x 24" LONG DBA @ 24" O.C.	#4 @ 12" O.C.
15" TO 18"	5/16"	1/2" Ø x 24" LONG DBA @ 24" O.C.	#4 @ 10" O.C.
18" TO 20"	3/8"	1/2" Ø x 24" LONG DBA @ 24" O.C.	#4 @ 8" O.C.
OVER 20"	USE BRACED SLAB EDGE		

NOTES:
1. CONTRACTOR SHALL VERIFY ALL DECK EDGE DIMENSIONS WITH ARCH. DRAWINGS PRIOR TO DETAILING AND FABRICATION OF CLOSURE PLATES.
2. COORDINATE CLOSURE ANGLES WITH EMBED BLOCKOUTS OR INSERTS THAT ARE REQ'D TO SUPPORT CLADDING, ELEVATOR RAILS & SILLS ETC.
3. CLOSURE PLATE WELD THICKNESS SHALL BE THE PLATE THICKNESS MINUS 1/16" (3/16" MIN)

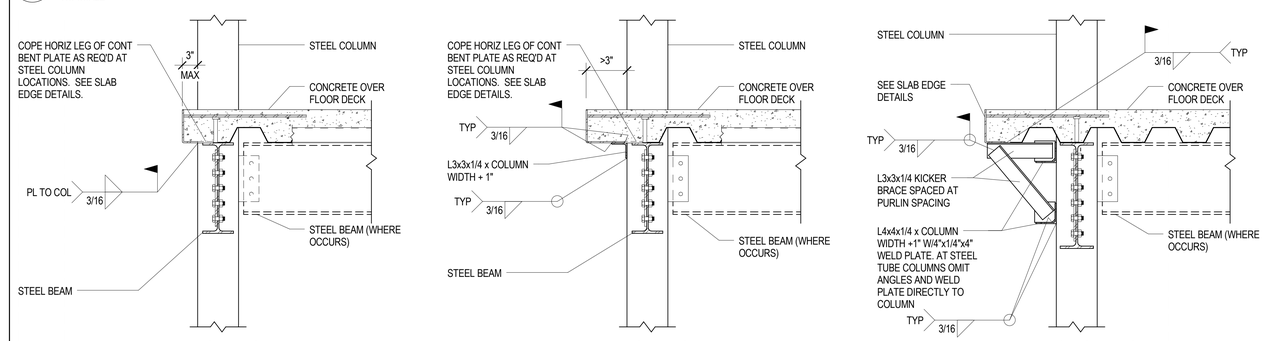




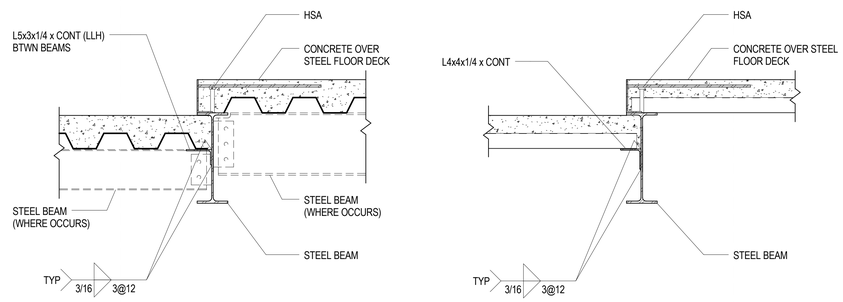
ANGLE BRACE SCHEDULE		
BRACE LENGTH	ANGLE BRACE SIZE	WELD PLATE SIZE
UP TO 4'-0"	L2x2x1/4	4"x1/4"x4"
4'-0" TO 8'-0"	L3x3x1/4	4"x1/4"x4"
8'-0" TO 12'-0"	2-L2.1/2x2.1/2x1/4	4"x3/8"x4"
OVER 12'-0"	2-L3x3x1/4	5"x3/8"x5"

NOTE:
1. WHERE DOUBLE ANGLES ARE USED PROVIDE 3"x3/8" SPACER PLATES AT THIRD POINTS.

C2 SF502 TYPICAL COMPOSITE DECK BEARING DETAIL AT STEEL BEAM (DECK GIRDER FILLER)
NO SCALE



B1 SF502 TYPICAL CONCRETE OVER STEEL FLOOR DECK SLAB EDGE DETAILS AT STEEL BEAMS
NO SCALE



A1 SF502 TYPICAL CONCRETE OVER STEEL FLOOR DECK SLAB EDGE DETAILS AT STEEL COLUMNS
NO SCALE

A4 SF502 TYPICAL DETAIL AT STEP IN COMPOSITE FLOOR DECK
NO SCALE

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SF502

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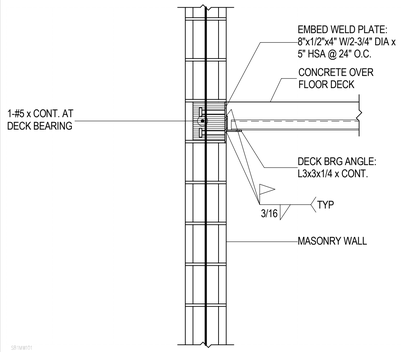
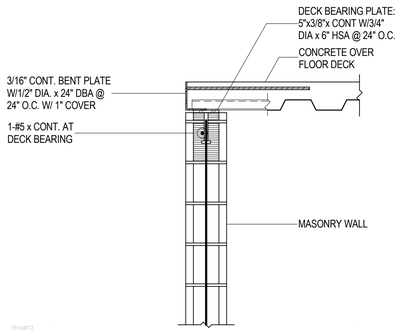


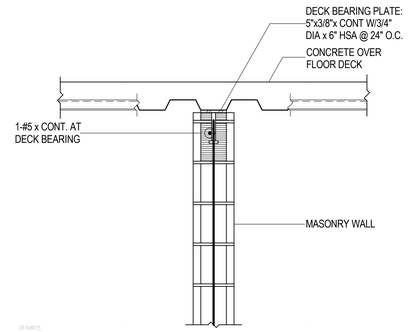
D1 / SF503 TYPICAL DECK BEARING AT MASONRY WALL

NO SCALE



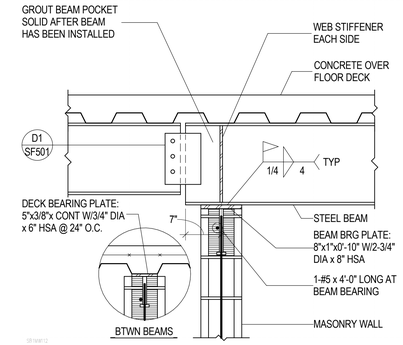
D2 / SF503 TYPICAL DECK BEARING AT MASONRY WALL

NO SCALE



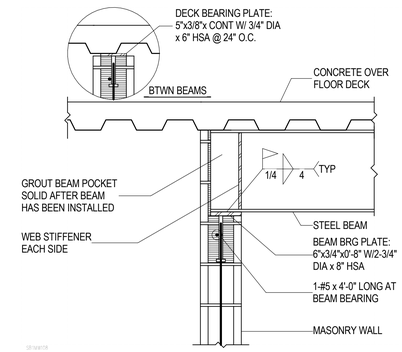
D3 / SF503 TYPICAL DECK BEARING AT MASONRY WAL

NO SCALE



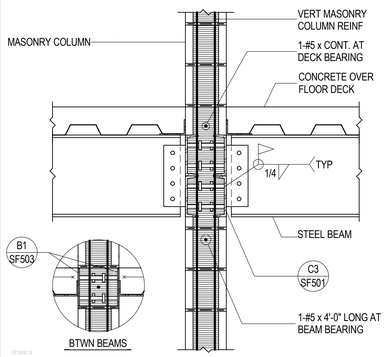
D4 / SF503 TYPICAL STEEL BEAM AT MASONRY WALL AT DROP-IN STEEL BEAM

NO SCALE



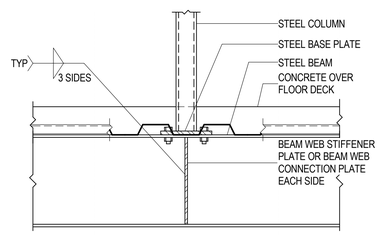
D5 / SF503 TYPICAL BEAM/DECK BEARING AT MASONRY WALL

NO SCALE



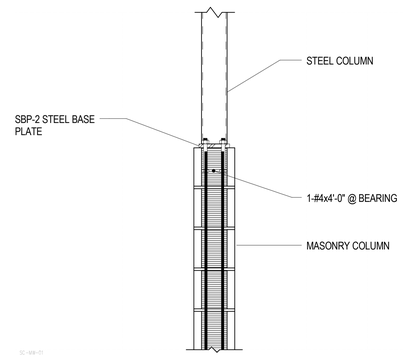
C1 / SF503 TYPICAL BEAM/DECK BEARING AT MASONRY COLUMN

NO SCALE



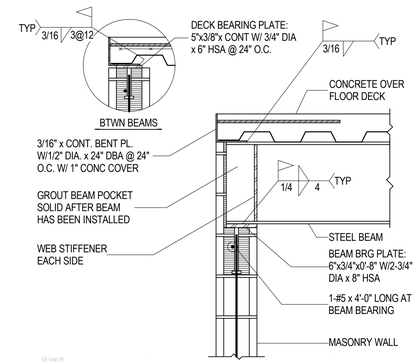
C2 / SF503 STEEL BEAM W/ STEEL COLUMN ABOVE

NO SCALE



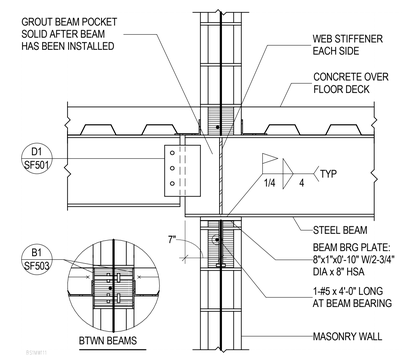
C3 / SF503 STEEL COLUMN AT MASONRY WALL

NO SCALE



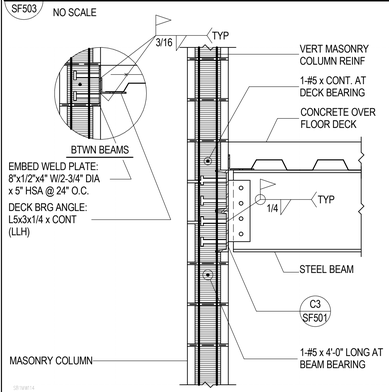
C4 / SF503 TYPICAL BEAM/DECK BEARING AT MASONRY WALL

NO SCALE



C5 / SF503 TYPICAL STEEL BEAM AT MASONRY WALL AT DROP-IN STEEL BEAM

NO SCALE



B1 / SF503 TYPICAL BEAM/DECK BEARING AT MASONRY COLUMN

NO SCALE

LICENSED CERTIFIED STRUCTURAL ENGINEER
NO. 176729
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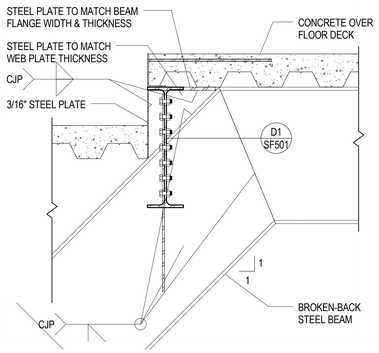
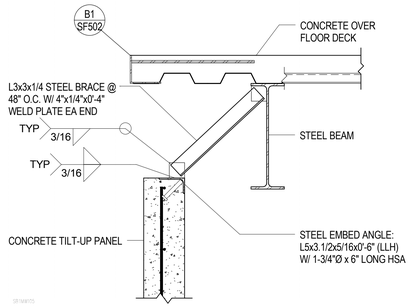
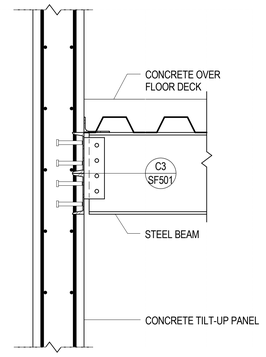


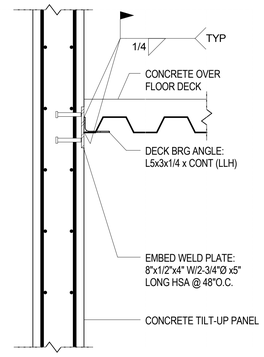
D1 SF504 BROKEN-BACK STEEL BEAM AT DEPRESSED DECK SLAB
NO SCALE



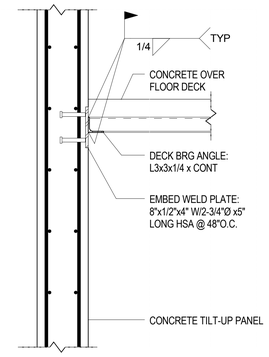
D2 SF504 CONCRETE TILT-UP PANEL TOP BRACING AT STEEL BEAM
NO SCALE



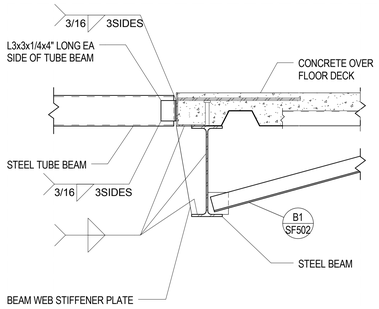
D3 SF504 TYPICAL COMPOSITE STEEL BEAM BEARING AT CONCRETE WALL
NO SCALE



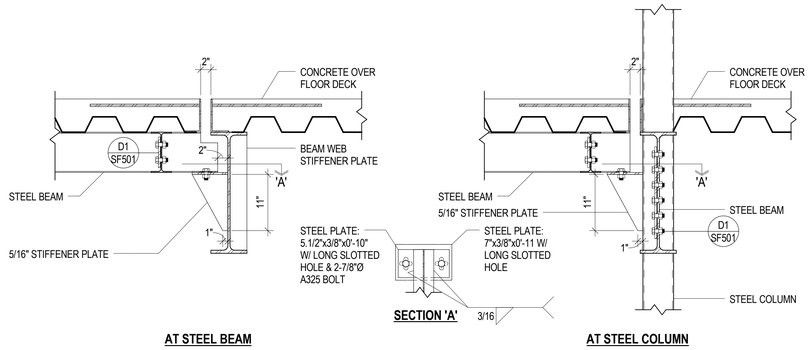
D4 SF504 TYPICAL COMPOSITE FLOOR DECK BEARING AT CONCRETE WALL
NO SCALE



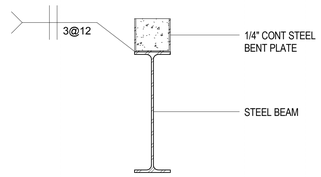
D5 SF504 TYPICAL COMPOSITE FLOOR DECK BEARING AT CONCRETE WALL
NO SCALE



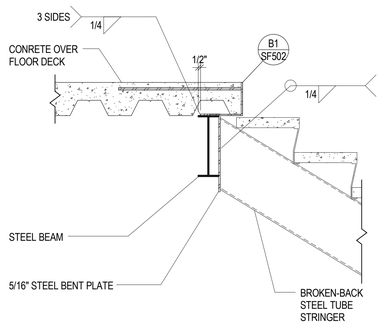
C2 SF504 STEEL TUBE BEAM TO SLAB EDGE
NO SCALE



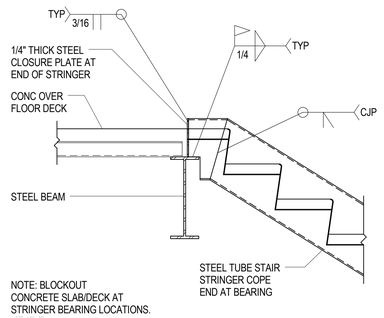
C3 SF504 STEEL BEAM BEARING AT STIFFENED SEAT - SLIP CONNECTION
NO SCALE



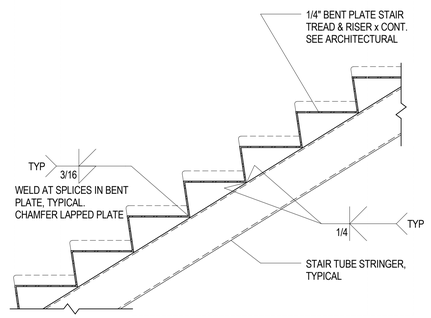
C5 SF504 CONT STEEL PLATE TO STEEL BEAM
NO SCALE



B3 SF504 STEEL TUBE BEAM STRINGER TO STEEL BEAM
NO SCALE



B4 SF504 STAIR STRINGER CONNECTION AT FLOOR
NO SCALE



B5 SF504 STAIR TREAD & RISER TO STAIR TUBE STRINGER
NO SCALE

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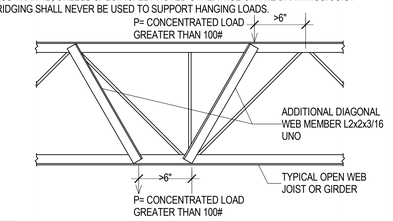
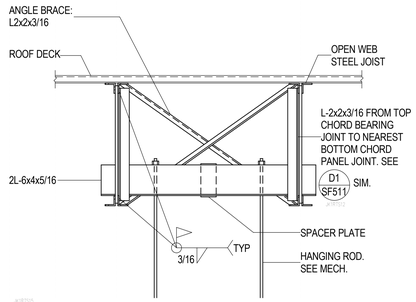
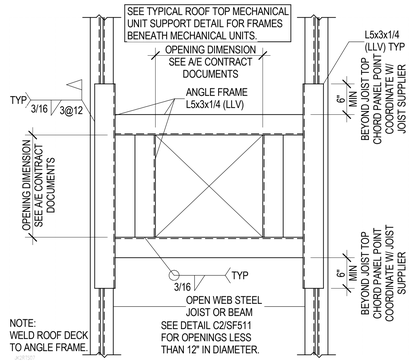
NOTE: WHEN CONCENTRATED LOADS (GREATER THAN 100#) ON OPEN WEB JOISTS OR GIRDERS ARE LOCATED MORE THAN 6 INCHES FROM THE PANEL WORKPOINTS AT EITHER THE TOP OR BOTTOM CHORD ADDITIONAL DIAGONAL WEB MEMBERS SHALL BE FURNISHED AND INSTALLED AT THE LOCATION OF THE CONCENTRATED LOAD BY THE CONTRACTOR. CONCENTRATED POINT LOADS, SINGLE OR MULTIPLE, TOTALING 100# OR LESS CAN BE LOCATED AT ANY POINT ALONG THE TOP OR BOTTOM CHORD OF AN OPEN WEB JOIST OR GIRDER BETWEEN ADJACENT PANEL POINTS WITHOUT MEETING THESE REQUIREMENTS. A LIMIT OF FOUR CONCENTRATED 100# MAX. POINT LOADS PER JOIST OR GIRDER WILL BE PERMITTED ON SPANS OF 12' & GREATER, ONE CONCENTRATED 100# MAX. LOAD ON SPANS LESS THAN 12', UNLESS SPECIFICALLY NOTED OTHERWISE ON THE DRAWINGS. JOIST BRIDGING SHALL NEVER BE USED TO SUPPORT HANGING LOADS.



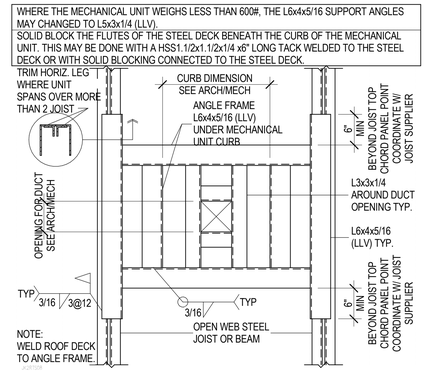
D1 / SF511 TYPICAL DETAIL AT ADDITIONAL CONCENTRATED POINT LOAD
NO SCALE



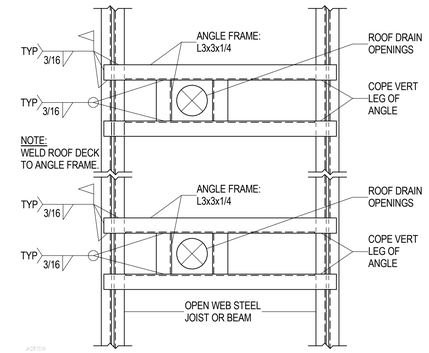
D2 / SF511 TYPICAL HANGING MECHANICAL UNIT SUPPORT DETAIL
NO SCALE



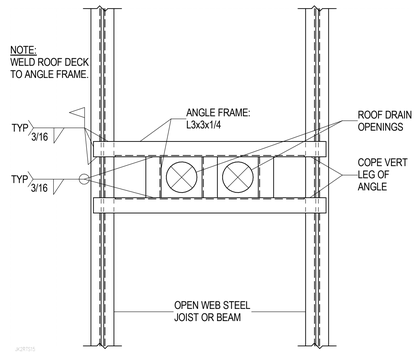
D3 / SF511 TYPICAL ROOF OPENING DETAIL (PLAN VIEW)
NO SCALE



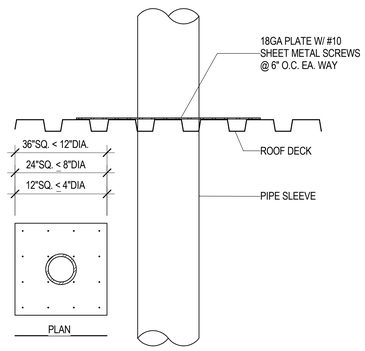
D4 / SF511 TYP ROOF TOP MECHANICAL UNIT SUPPORT DETAIL (PLAN VIEW)
NO SCALE



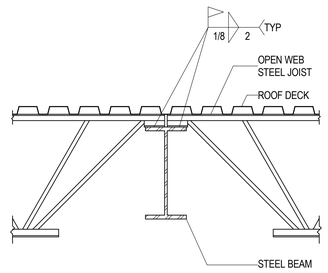
D5 / SF511 TYPICAL ROOF DRAIN OPENING (PLAN VIEW)
NO SCALE



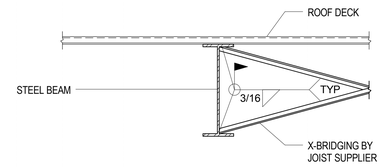
C1 / SF511 TYPICAL ROOF DRAIN OPENING (PLAN VIEW)
NO SCALE



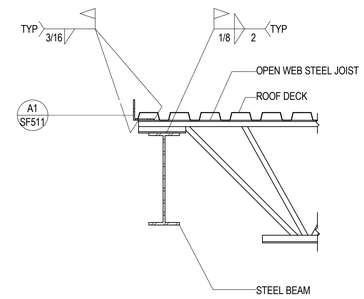
C2 / SF511 TYPICAL PIPE SLEEVE HOLE THRU ROOF DECK
NO SCALE



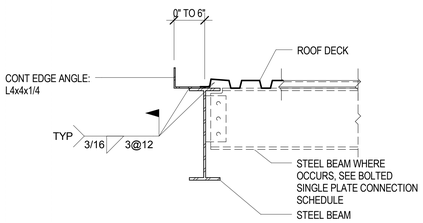
C3 / SF511 TYPICAL JOIST BEARING AT STEEL BEAM
NO SCALE



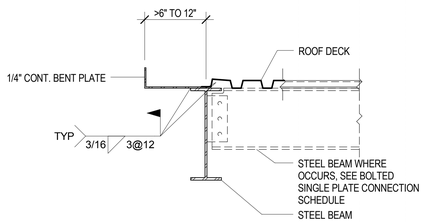
C4 / SF511 STEEL BEAM WITH BRIDGING
NO SCALE



C5 / SF511 TYPICAL JOIST BEARING AT STEEL BEAM
NO SCALE

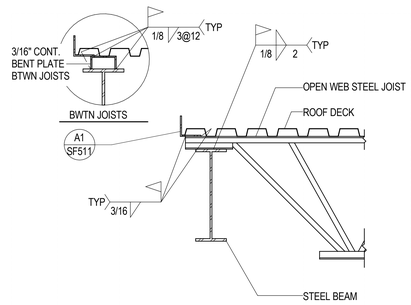


ROOF EDGE FOR 0" UP TO 6"

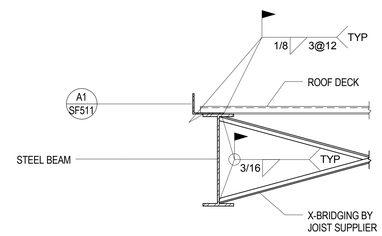


ROOF EDGE FOR >6" UP TO 12"

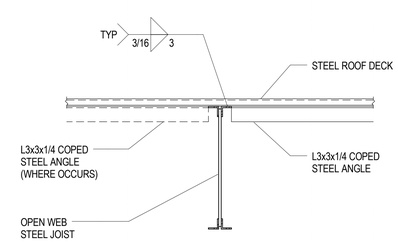
A1 / SF511 TYPICAL ROOF EDGE DETAILS AT STEEL BEAMS
NO SCALE



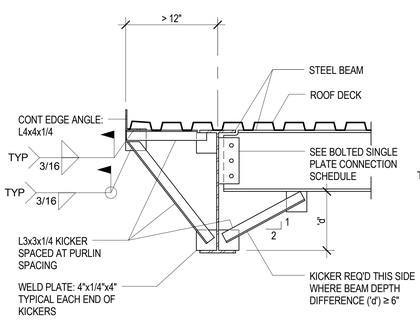
B3 / SF511 TYP JOIST BEARING AT STEEL BEAM W/ CHORD TIE/DRAG STRUT
NO SCALE



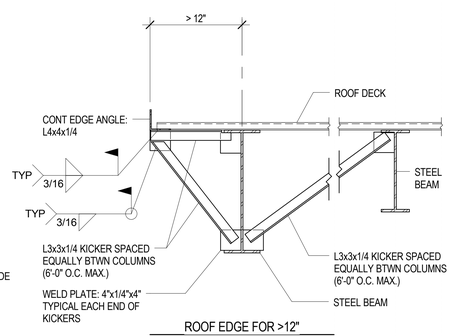
B4 / SF511 TYPICAL EDGE BEAM WITH BRIDGING
NO SCALE



B5 / SF511 TYPICAL STEEL ANGLE CONNECTION AT OPEN WEB STEEL JOIST
NO SCALE

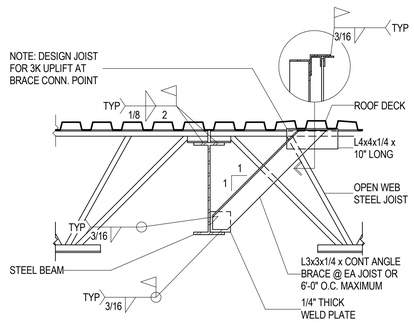


ROOF EDGE FOR >12"

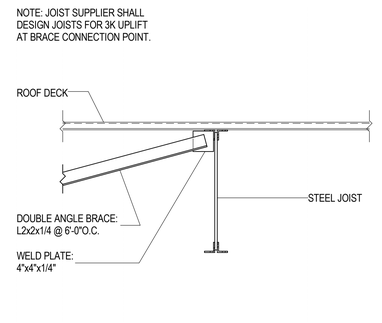


ROOF EDGE FOR >12"

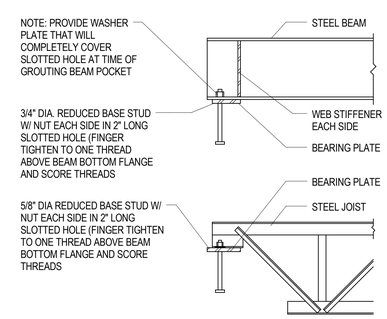
A1 / SF511 TYPICAL ROOF EDGE DETAILS AT STEEL BEAMS
NO SCALE



A3 / SF511 TYPICAL STEEL BEAM BOTTOM FLANGE BRACE CONNECTION
NO SCALE



A4 / SF511 TYPICAL STEEL BRACE CONNECTION TO OPEN WEB STEEL JOIST
NO SCALE



A5 / SF511 TYPICAL SLIP CONNECTIONS TO MASONRY WALL
NO SCALE

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METHOD STUDIO INC.
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REAVELEY ENGINEERS + ASSOCIATES
Consulting Structural Engineers

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project:
TOOELE APPLIED TECHNOLOGY COLLEGE - NEW BUILDING

88 South Tooele Blvd
Tooele, UT 84074

project#: 11.0420
date: 1/20/12

revisions :

TYP ROOF FRAMING DETAILS

sheet:

SF511

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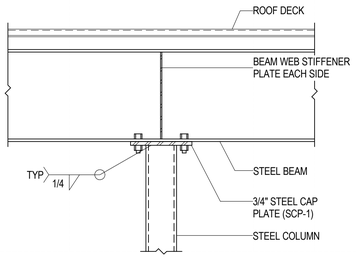
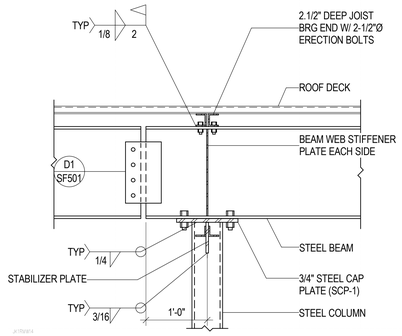
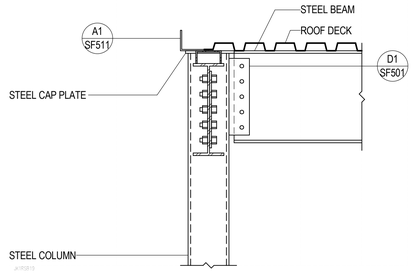


D1 / SF512 TYPICAL JOIST & STEEL BEAM BEARING AT STEEL COLUMN
NO SCALE



D2 / SF512 TYPICAL JOIST & STEEL BEAM BEARING AT STEEL COLUMN
NO SCALE



D3 / SF512 TYP STEEL BEAM CONNECTION TO STEEL COLUMN
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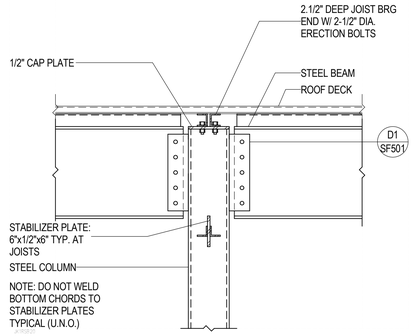
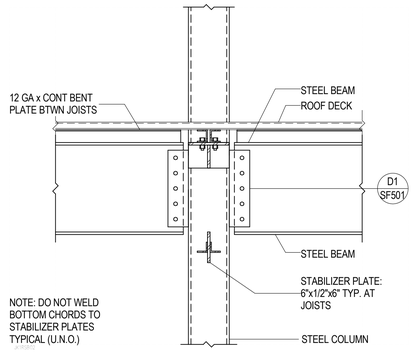
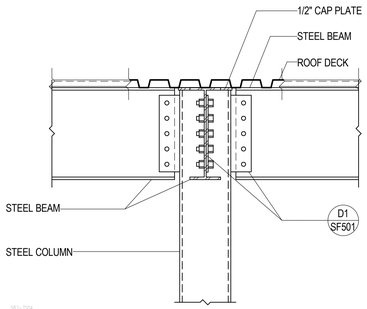


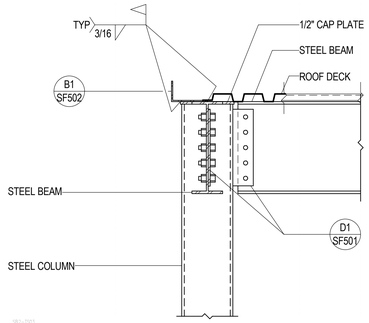
D4 / SF512 TYP OPEN WEB STEEL JOIST & STEEL BEAM BEARING AT STEEL COLUMN
NO SCALE



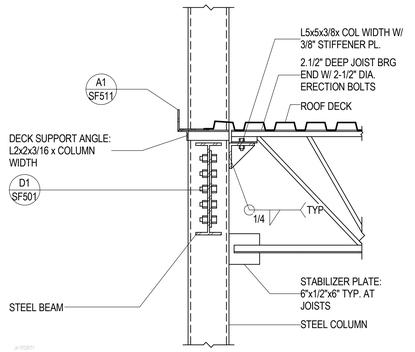
D5 / SF512 TYPICAL STEEL BEAM CONNECTION TO STEEL COLUMN
NO SCALE



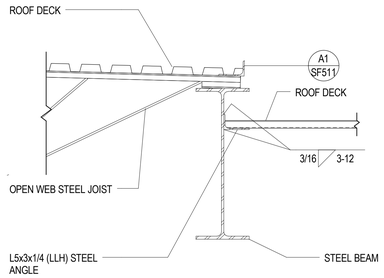
C1 / SF512 TYPICAL BOLTED CONNECTION TO STEEL COLUMN - BEAM TWO SIDES
NO SCALE



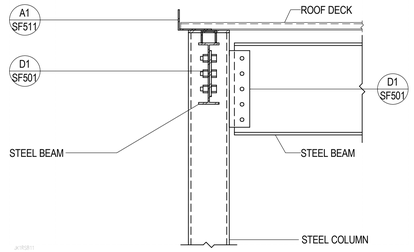
C2 / SF512 TYPICAL BOLTED CONNECTION TO STEEL COLUMN - BEAM ONE SIDE
NO SCALE



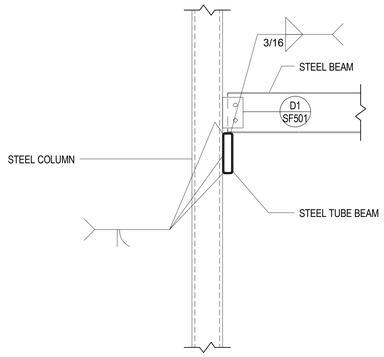
C3 / SF512 TYPICAL STEEL JOIST TO STEEL COLUMN AT LOW ROOF
NO SCALE



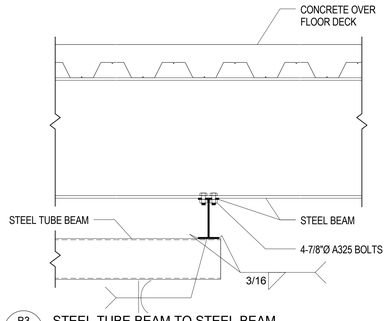
C4 / SF512 STEEL ROOF DECK AT STEEL BEAM WEB
NO SCALE



C5 / SF512 TYPICAL STEEL BEAM CONNECTION TO STEEL COLUMN
NO SCALE



B2 / SF512 STEEL TUBE BEAM TO STEEL COLUMN
NO SCALE



B3 / SF512 STEEL TUBE BEAM TO STEEL BEAM
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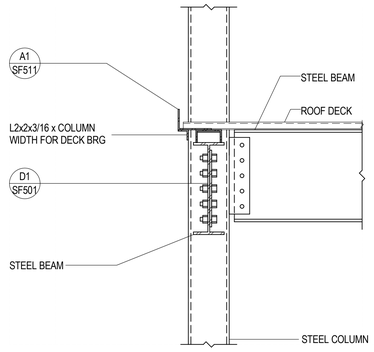

B4 / SF512 TYPICAL STEEL BEAM CONNECTION TO STEEL COLUMN
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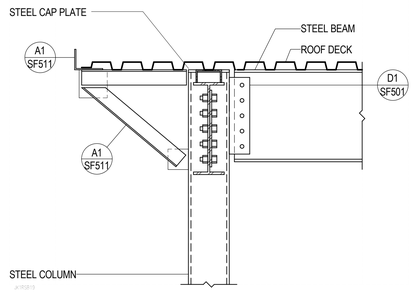
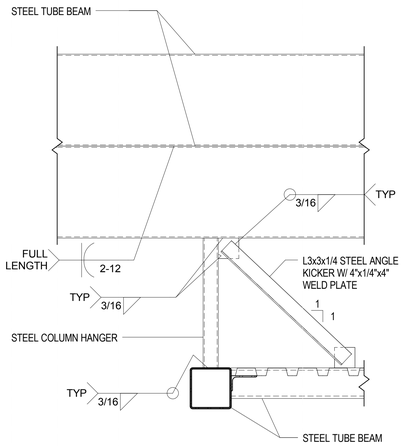
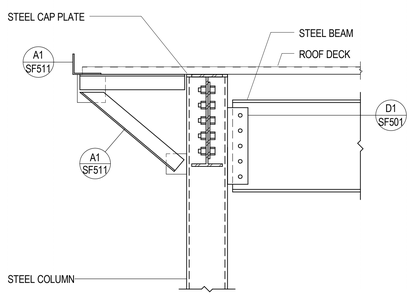


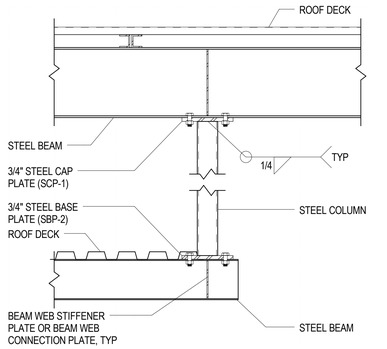
B5 / SF512 TYP STEEL BEAM CONNECTION TO STEEL COLUMN
NO SCALE



A1 / SF512 STEEL COLUMN HANGER AT STEEL TUBE BEAM W/ BRACE
NO SCALE



A2 / SF512 STEEL BEAM CONNECTION TO STEEL COLUMN W/ STEEL ANGLE KICKER
NO SCALE



A3 / SF512 STEEL COLUMN HANGER AT STEEL BEAM
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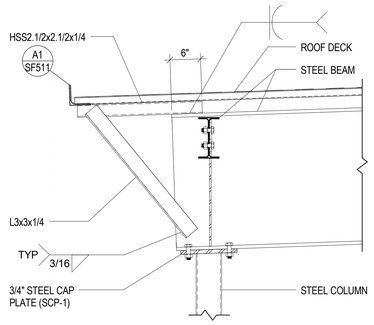

A4 / SF512 STEEL BEAM TO STEEL COLUMN W/ KICKER
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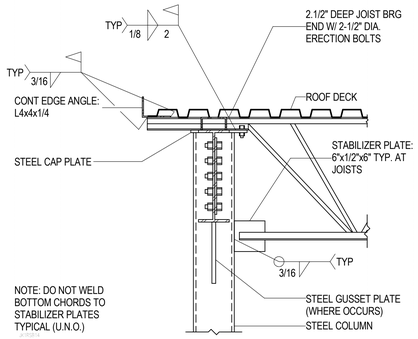

A5 / SF512 TYP OPEN WEB JOIST & STEEL BEAM BEARING AT EXTERIOR STEEL COLUMN
NO SCALE

LICENSED CERTIFIED STRUCTURAL ENGINEER
NO. 176729
MARK R. HARRIS
UTAH

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project:
TOOELE APPLIED TECHNOLOGY COLLEGE - NEW BUILDING

88 South Tooele Blvd
Tooele, UT 84074

project #: 11.0420
date: 1/20/12

revisions :

ROOF FRAMING DETAILS

sheet:

SF512

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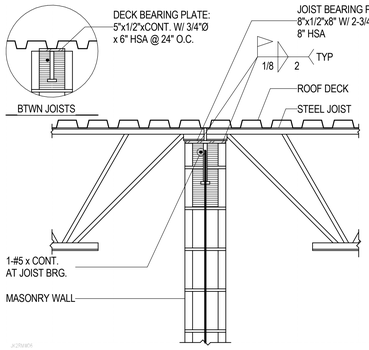
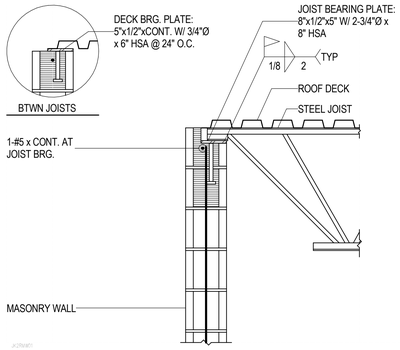


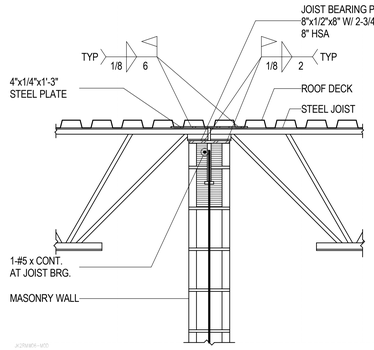
D1 / SF513 TYPICAL JOIST/DECK BEARING AT MASONRY WALL

NO SCALE



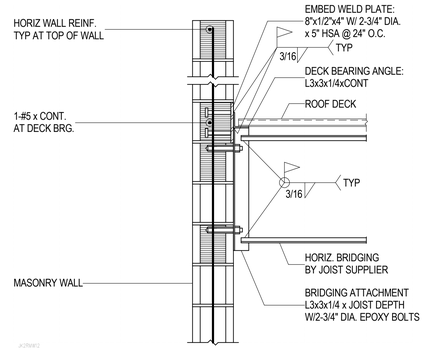
D2 / SF513 TYPICAL JOIST/DECK BEARING AT MASONRY WALL

NO SCALE



D3 / SF513 TYPICAL JOIST BEARING AT MASONRY WALL W/ DRAG STRUT

NO SCALE



D4 / SF513 TYP DECK BEARING AT MASONRY WALL WITH BRIDGING ATTACHMENT

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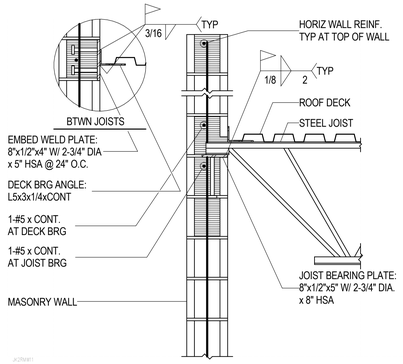
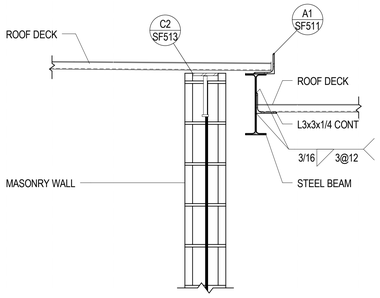


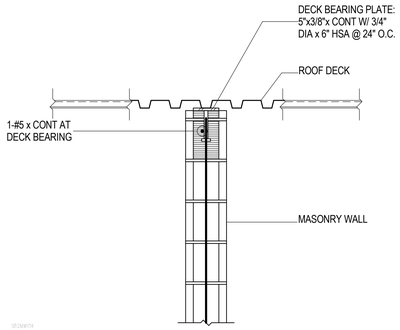
D5 / SF513 TYPICAL JOIST/DECK BEARING AT MASONRY WALL

NO SCALE



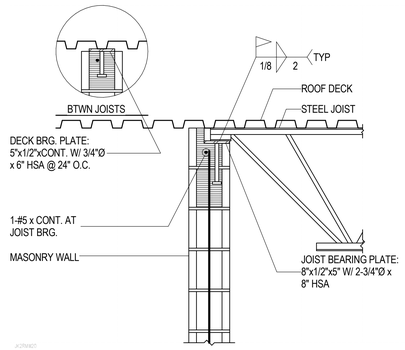
C1 / SF513 ROOF DECK STEP AT ELEVATOR

NO SCALE



C2 / SF513 TYPICAL ROOF DECK BEARING AT MASONRY WALL

NO SCALE



C3 / SF513 TYPICAL JOIST/DECK BEARING AT MASONRY WALL

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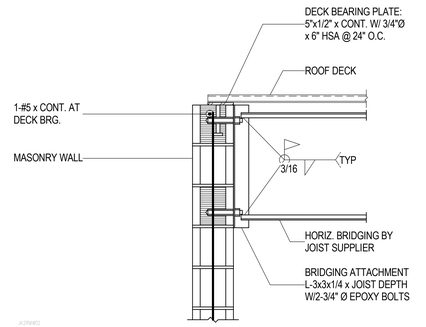
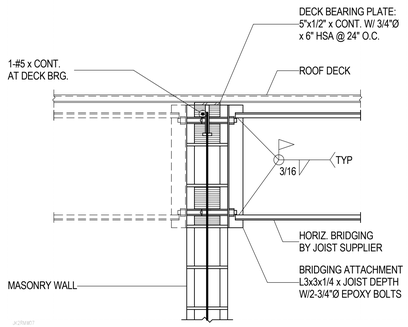


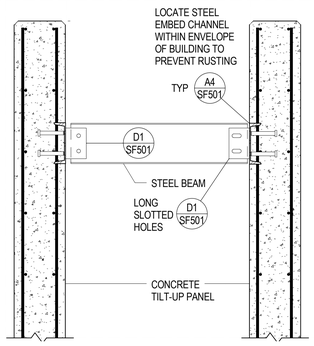
C4 / SF513 TYP DECK BEARING AT MASONRY WALL WITH BRIDGING ATTACHMENT

NO SCALE



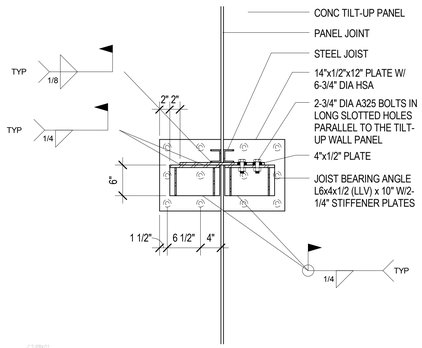
C5 / SF513 TYP DECK BEARING AT MASONRY WALL WITH BRIDGING ATTACHMENT

NO SCALE



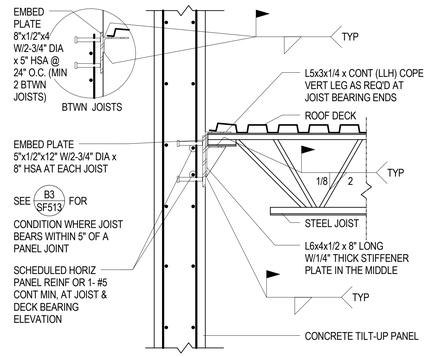
B2 / SF513 STEEL BEAM TO CONCRETE TILT-UP PANEL

NO SCALE



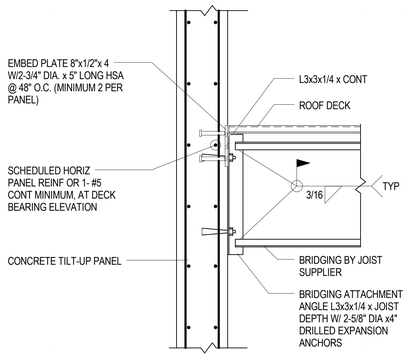
B3 / SF513 TYPICAL JOIST BEARING DETAIL WHERE JOIST BEARS WITHIN 5" OF A PANEL JOINT

NO SCALE



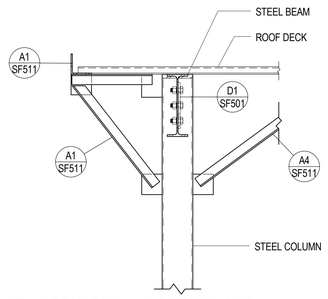
B4 / SF513 TYPICAL STEEL JOIST CONNECTION TO CONCRETE TILT-UP PANEL

NO SCALE



B5 / SF513 TYPICAL DECK BEARING/BRIDGING CONNECTION AT CONCRETE TILT-UP PANEL

NO SCALE



A5 / SF513 STEEL BEAM TO STEEL COLUMN EDGE CONDITION W/ STEEL ANGLE KICKER

NO SCALE

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REAVELEY
ENGINEERS + ASSOCIATES
Consulting Structural Engineers

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project:
TOOELE APPLIED
TECHNOLOGY
COLLEGE -
NEW BUILDING

88 South Tooele Blvd
Tooele, UT 84074

project#: 11.0420
date: 1/20/12

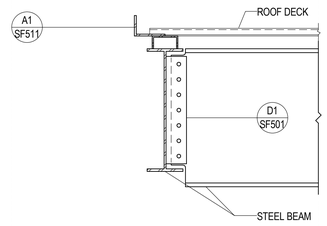
revisions :

ROOF FRAMING DETAILS

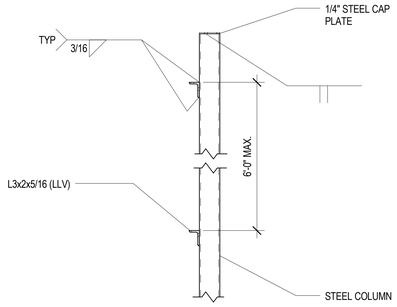
sheet:

SF513

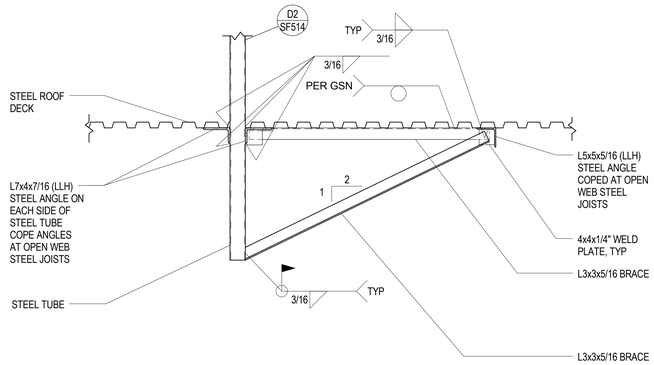
100% Construction Documents



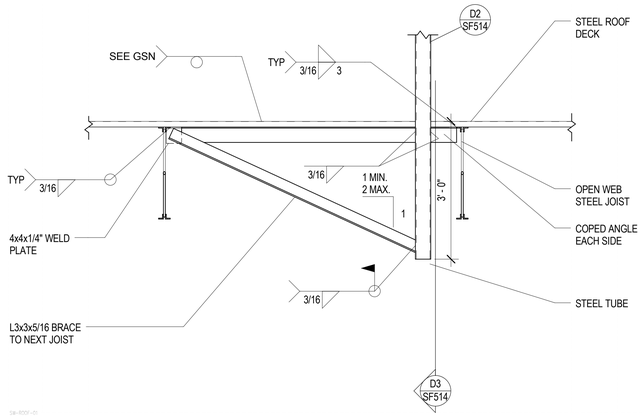
D1 SF514 TYPICAL STEEL BEAM TO BEAM CONNECTION AT ROOF EDGE
NO SCALE



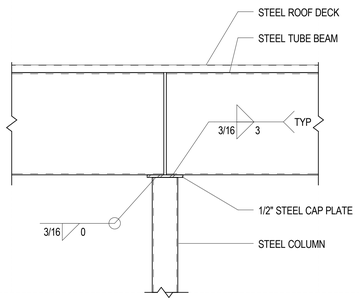
D2 SF514 SCREEN WALL SUPPORT ALONG WALL DETAIL
NO SCALE



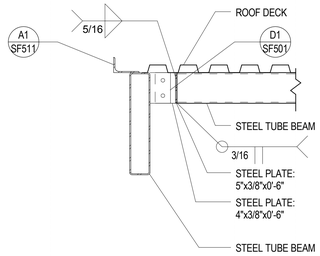
D3 SF514 SCREEN WALL SUPPORT COLUMN DETAIL
NO SCALE



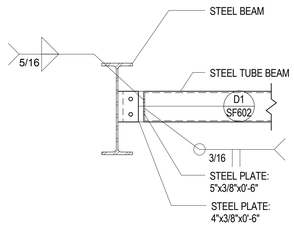
D4 SF514 SCREEN WALL SUPPORT COLUMN DETAIL
NO SCALE



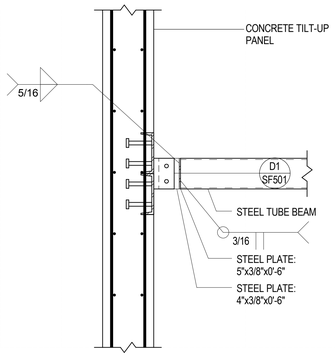
C1 SF514 STEEL TUBE BEAM AT STEEL COLUMN
NO SCALE



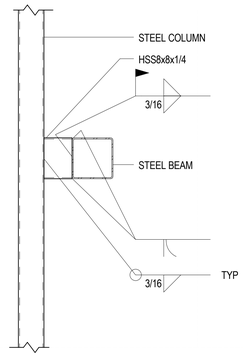
C2 SF514 STEEL TUBE BEAM AT STEEL TUBE BEAM
NO SCALE



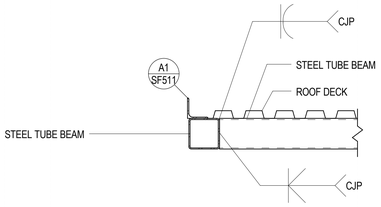
C3 SF514 TYPICAL STEEL TUBE BEAM CONNECTION TO STEEL BEAM
NO SCALE



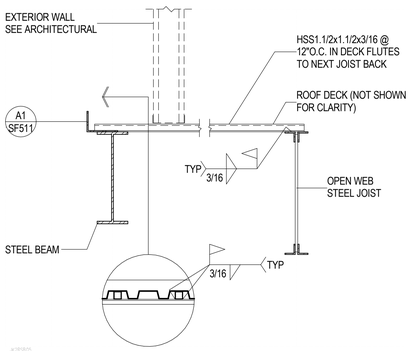
C4 SF514 TYPICAL EMBED CHANNEL CONNECTION AT TILT-UP PANEL
NO SCALE



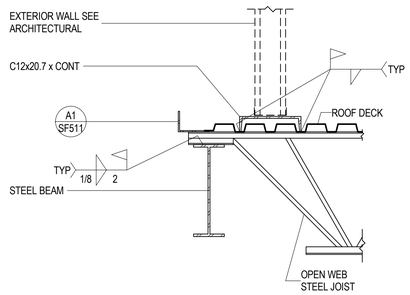
C5 SF514 ENTRANCE CANOPY STEEL BEAM TO STEEL COLUMN
NO SCALE



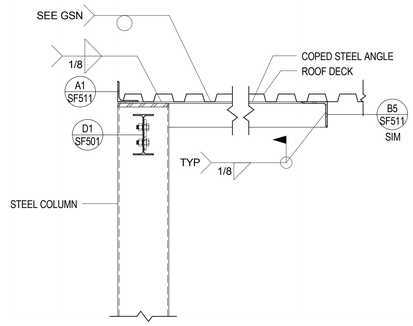
B1 SF514 STEEL TUBE BEAM TO STEEL TUBE BEAM
NO SCALE



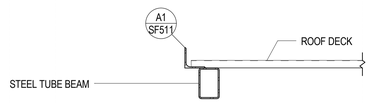
B2 SF514 TYPICAL STEEL TUBE SUPPORTS FOR EXTERIOR WALL SYSTEM
NO SCALE



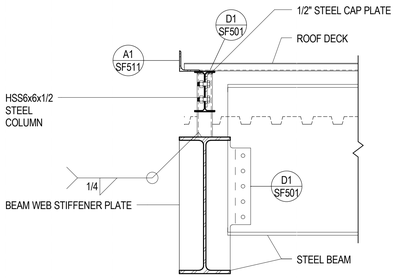
B3 SF514 TYPICAL JOIST BEARING AT STEEL BEAM W/ EXTERIOR WALL SUPPORT
NO SCALE



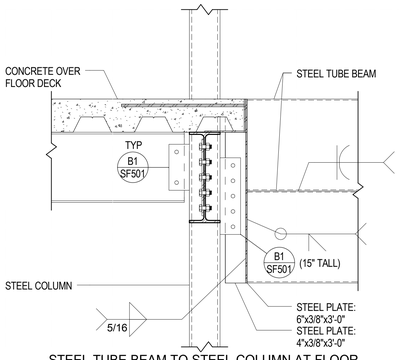
B4 SF514 STEEL ANGLE BRACE TO STEEL COLUMN
NO SCALE



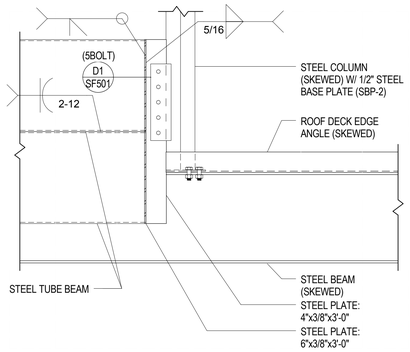
C5 SF514 STEEL TUBE BEAM EDGE CONDITION
NO SCALE



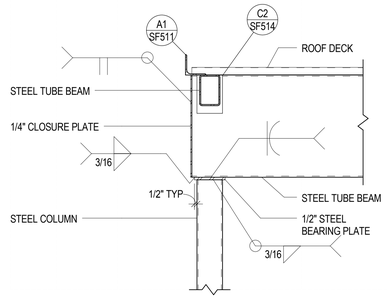
A1 SF514 STEEL BEAM TO STEEL BEAM W/ STEEL COLUMN ABV
NO SCALE



A2 SF514 STEEL TUBE BEAM TO STEEL COLUMN AT FLOOR EDGE
NO SCALE



A3 SF514 STEEL TUBE BEAM TO STEEL BEAM
NO SCALE



A4 SF514 STEEL TUBE BEAM TO STEEL COLUMN
NO SCALE

A5 SF514 STEEL TUBE BEAM EDGE CONDITION
NO SCALE

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METHOD STUDIO INC.
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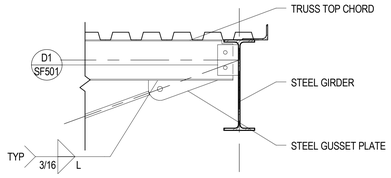
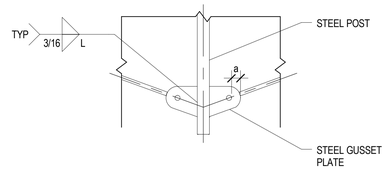


TRUSS #	a	L	GUSSET PALTE THICKNESS
1	3"	23.1/2"	3/4"
2	2.3/4"	21.1/2"	5/8"
3	2.1/4"	17.1/2"	1/2"
4	2"	15.1/2"	3/8"
5	1.3/4"	13.1/2"	1/4"

D2 SF515 STEEL GUSSET PLATE AT STEEL BEAM

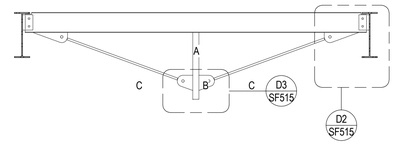
NO SCALE



TRUSS #	a	L	GUSSET PALTE THICKNESS
1	3"	10.1/2"	3/4"
2	2.3/4"	9.1/2"	5/8"
3	2.1/4"	8"	1/2"
4	2"	7"	3/8"
5	1.3/4"	6"	1/4"

D3 SF515 STEEL GUSSET PLATE AT STEEL POST

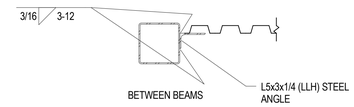
NO SCALE

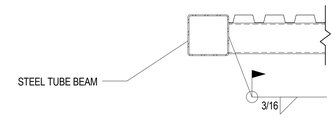


TRUSS #	A	B	C	CLEVIS	PIN DIAMETER
1	W8x18	2" X-STRONG	1.1/4" A36 STEEL ROD	3.5	2
2	W8x15	2" X-STRONG	1.1/8" A36 STEEL ROD	3	1.3/4
3	W8x10	2" X-STRONG	1" A36 STEEL ROD	3	1.1/2
4	W8x10	2" X-STRONG	1" A36 STEEL ROD	3	1.1/4
5	W8x10	2" X-STRONG	3/4" A36 STEEL ROD	2.5	1

D4 SF515 CLERESTORY ROOF TRUSSES

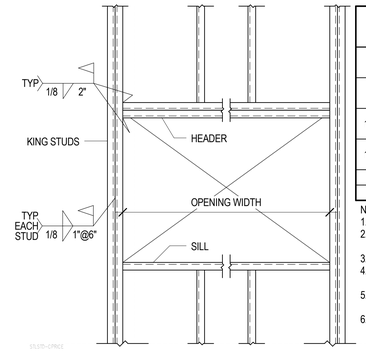
NO SCALE





D5 SF515 STEEL TUBE BEAM AT STEEL TUBE BEAM

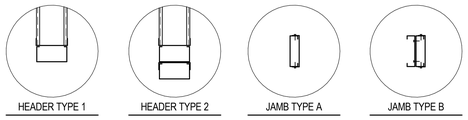
NO SCALE



HEIGHT OF WALL	WIDTH OF OPENING	JAMB			SILL	HEADER	
		SIZE	TYPE	NO. OF KING STUDS	SIZE	SIZE	TYPE
UP TO 12'-0"	UP TO 4'-0"	600S162-33	A	1+T	(1)600T125-33	(1)600S162-33	1
		600T125-33					
UP TO 12'-0"	4'-1" TO 8'-0"	(2)600S162-33	B	2+T	(2)600S162-33	(2)600S162-33	2
		600T125-33			(1)600T125-33	(1)600T125-33	
12'-1" TO 17'-6"	UP TO 4'-0"	600S162-54	A	1+T	(1)600S162-54	(1)600S162-54	1
		600T125-54					
12'-1" TO 17'-6"	4'-1" TO 8'-0"	(2)600S162-54	B	2+T	(2)600S162-54	(2)600S162-54	2
		600T125-54			(1)600T125-54	(1)600T125-54	

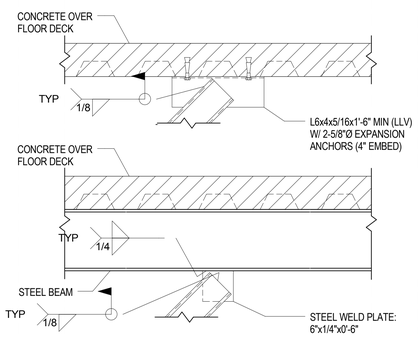
NOTES:
1. SEE ARCHITECTURAL DRAWINGS FOR LOCATIONS OF ALL OPENINGS IN STUD WALLS.
2. ALL STUD SIZE DESIGNATIONS ARE PER THE STANDARD ESTABLISHED BY THE STEEL STUD MANUFACTURER'S ASSOCIATION (SSMA) AND THE NORTH AMERICAN STEEL FRAMING ALLIANCE (NASFA).
3. HEIGHTS OF WALL IN SCHEDULE DO NOT INCLUDE PARAPETS.
4. AT CONTRACTORS OPTION, USE #12 SCREWS @ 12" O.C. TO ATTACH TRACK/OTHER STUDS TO JAMB/HEADER STUDS TYPICAL IN LIEU OF WELDING.
5. OTHER PROPRIETARY STUD FRAMING SYSTEMS MAY BE USED WITH WRITTEN APPROVAL BY THE STRUCTURAL ENGINEER.
6. SEE SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.

TYPICAL STUD WALL CONSTRUCTION	
UP TO 12'-0"	600S162-33 @ 16" O.C.
12'-1" TO 16'-0"	600S162-43 @ 16" O.C.
16'-1" TO 17'-6"	600S162-54 @ 12" O.C.



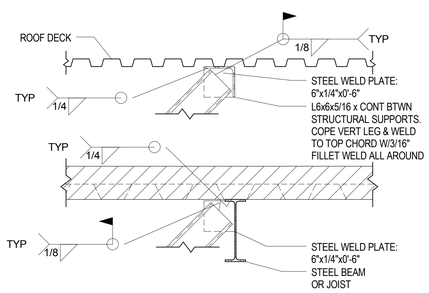
B4 SF515 TYPICAL EXTERIOR STUD WALL FRAMING SCHEDULE WITH FRAMED OPENING DETAIL

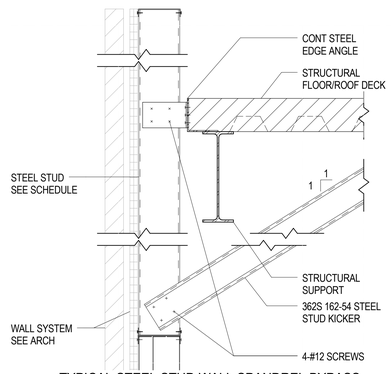
NO SCALE



A2 SF515 TYPICAL STEEL STUD BRACE CONNECTION TO FLOOR/ROOF DECK

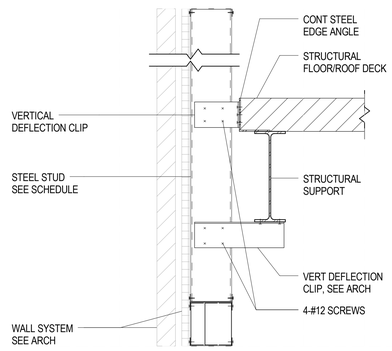
NO SCALE





A4 SF515 TYPICAL STEEL STUD WALL SPANDREL BYPASS BRACED TO DECK

NO SCALE



A5 SF515 TYPICAL STEEL STUD WALL BYPASS AT FRAMED OPENING BRACED TO STEEL BEAM

NO SCALE

LICENSED CERTIFIED STRUCTURAL ENGINEER
NO. 176729
MARK R. HARRIS
UTAH

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07-D.B. UPPER																							07-D.B. UPPER
38' - 4" 03-D.B. LOWER																							38' - 4" 03-D.B. LOWER
31' - 6" 02-LEVEL 02		HSS6X6X5/16	HSS6x6x1/4	HSS6X6X5/8	HSS6x6x1/2	HSS6x6x1/2		HSS5x5x1/4	HSS4X4X5/16				HSS5x5x1/4	HSS6X6X5/16			HSS9x9x3/8	HSS4x4x1/4	HSS10x5x1/4				31' - 6" 02-LEVEL 02
16' - 0" 01-Level 01	HSS6x6x1/4					HSS6X6X5/16			HSS4x4x1/4	HSS4x4x1/4	HSS5x5x1/4			HSS6x6x1/4	HSS5x5x1/4					HSS6x6x1/4	HSS4x4x1/4	HSS6x6x1/4	16' - 0" 01-Level 01
0"	3/4", SBP-1 W/ 4-3/4"Ø	7/8", SBP-1 W/ 4-3/4"Ø	3/4", SBP-1 W/ 4-3/4"Ø	1.1/4", SBP-1 W/ 4-3/4"Ø	1.1/4", SBP-1 W/ 4-3/4"Ø	1", SBP-1 W/ 4-3/4"Ø	1", SBP-1 W/ 4-3/4"Ø	1/2", SBP-2 W/ 4-3/4"Ø	7/8", SBP-1 W/ 4-3/4"Ø	7/8", SBP-3 W/ 4-3/4"Ø	5/8", SBP-3 W/ 4-3/4"Ø	5/8", SBP-1 W/ 4-3/4"Ø	3/4", SBP-1 W/ 4-3/4"Ø	7/8", SBP-1 W/ 4-3/4"Ø	3/4", SBP-1 W/ 4-3/4"Ø	5/8", SBP-1 W/ 4-3/4"Ø	1.1/4", SBP-1 W/ 4-3/4"Ø	3/4", SBP-2 W/ 4-3/4"Ø	3/4", SBP-1 W/ 4-3/4"Ø	3/8", SBP-1 W/ 4-3/4"Ø	3/4", SBP-1 W/ 4-3/4"Ø	5/8", SBP-3 W/ 4-3/4"Ø	0"
Column Locations	A-2	A-3	A-6	B-5, C(10' - 2")-5	D(12' - 10 1/4")-4, E(12' - 10 1/4")-4	D(-5' - 6 1/4")-6	E-6(19' - 7 7/8")	E(7' - 3 1/2")-6	E(-6' - 1 1/2")-6	E(7' - 3 1/2")-7	E(-6' - 1 1/2")-7	F(-1' - 1 1/4")-2(12' - 2 1/2")	F-4	F-5	F-6(19' - 7 7/8")	H(-7' - 6 7/8")-2(12' - 2 1/2"), I(-11' - 9 1/2")-2(12' - 2 1/2")	H(-6' - 0 1/2")-5(-8' - 9 1/4")	K(2' - 4 1/2")-4a	K(12' - 7 7/8")-5(-6' - 1 7/8"), X4-4a(-1' - 9 3/4"), K(3' - 5 1/2")-X4, X4-Y4(7' - 2")	L-4a, X4-4a	M(5' - 10 1/4")-3(10' - 2 1/4")	M(9' - 5 3/4")-4a	

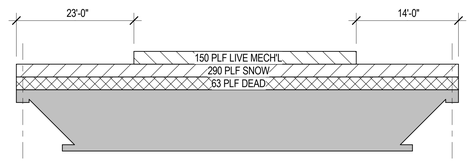
07-D.B. UPPER												07-D.B. UPPER
38' - 4" 03-D.B. LOWER												38' - 4" 03-D.B. LOWER
31' - 6" 02-LEVEL 02	HSS8x8x1/4	HSS6X6X3/8	HSS6X6X5/8			HSS6x6x1/2		HSS5x5x1/4				31' - 6" 02-LEVEL 02
16' - 0" 01-Level 01				HSS8x8x3/8	HSS6X6X5/16		HSS6X6X5/8		HSS6x6x1/4	HSS6X6X3/8	HSS4x4x1/4	HSS4x4x1/4	16' - 0" 01-Level 01
0"	7/8", SBP-1 W/ 4-3/4"Ø	5/8", SBP-1 W/ 4-3/4"Ø	1.1/4", SBP-2 W/ 4-3/4"Ø	5/8", SBP-1 W/ 4-3/4"Ø	1.1/8", SBP-1 W/ 4-3/4"Ø	3/4", SBP-1 W/ 4-3/4"Ø	7/8", SBP-2 W/ 4-3/4"Ø	3/4", SBP-1 W/ 4-3/4"Ø	3/4", SBP-1 W/ 4-3/4"Ø	3/4", SBP-2 W/ 4-3/4"Ø	3/4", SBP-1 W/ 4-3/4"Ø	3/4", SBP-2 W/ 4-3/4"Ø	0"
Column Locations	X1(-5' - 1")-6(-8' - 3 7/8"), X3(8 1/8")-Y3(-17' - 4 3/4")	X2-4a	Y2-7(8 3/8")	Y3-6(3' - 10 3/8")	I(7' - 7 3/4")-X1(-7' - 7 1/4")	I(-2' - 4")-X1	X1-Y1	X1-Y3	X2-Y4	X3(-6' - 4 7/8")-Y1	X4-Y2	X4(2' - 8 7/8")-Y2	

NOTES:

1. UNLESS NOTED OTHERWISE, ALL COLUMNS SHALL BE INSTALLED W/4-3/4" DIAMETER A.B. W/ 3" (MIN) HOOKS. PROJECT ANCHOR BOLTS 3" (MIN) ABOVE THE TOP OF THE BASE PLATE. EMBEDMENT SHALL BE 9" (MIN). ALL BOLTS SHALL BE INSTALLED W/ HARDENED WASHERS BENEATH THE NUT. ANY BOLT HOLES LARGER THAN THE BOLT DIAMETER PLUS 5/16" SHALL HAVE 5/16" PLATE WASHERS INSTALLED BENEATH THE HARDENED WASHERS.

2. ALL BOLTS IN CAP PLATES SHALL BE 3/4" DIA, A325N BOLTS TYPICAL U.N.O.

3. WELDS SHALL NOT BE MADE TO ANCHOR BOLTS.

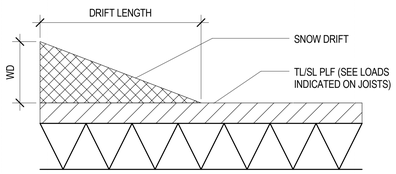


B5 / SF601 SPECIAL JOIST DIAGRAM SPJ-1
NO SCALE

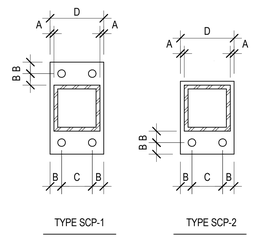
SNOW DRIFT SCHEDULE		
MARK	DRIFT LENGTH	WD (PSF)
SD-1	8'-2"	43
SD-2	11'-2"	58

NOTES:
FOR OWSJ DESIGN DRIFT LOADS SHALL BE IN ADDITION TO ALL LOADS INDICATED ON PLANS.

STEEL ANGLE LINTEL SCHEDULE		
BEARING EQUALS 1" PER FOOT OF OPENING OR 6" MINIMUM TYPICAL		
OPENING SIZE	ANGLE SIZE	NOTES:
0'-0" - 7'-0"	L3.1/2x3.1/2x1/4	LINTELS ARE DESIGNED TO SUPPORT UNIFORM LOADS CONSISTING ONLY OF WEIGHT OF WALL WITHIN A 60 DEGREE ISOSCELES TRIANGLE AREA ABOVE OPENING.
7'-0" - 9'-0"	L4x3.1/2x1/4	
9'-0" - 10'-0"	L5x3.1/2x1/4	ALL STEEL LINTELS ARE TO HAVE LONG LEG VERTICAL.
		LINTEL SCHEDULE FOR 4" VENEER
		ALL ANGLE LINTELS SHALL BE GALVANIZED.

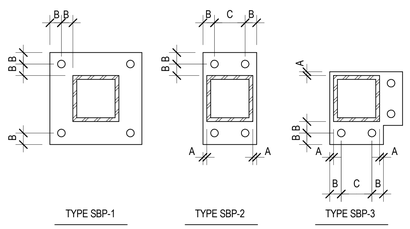


A2 / SF601 SNOW DRIFT SCHEDULE & DIAGRAM
NO SCALE



A = 1/2" MIN.
B = 1 1/2" MIN.
C = GAGE OF CONNECTED MEMBER
D = COLUMN WIDTH + 1", BEAM OR GIRDER WIDTH + 1", OR BOLT GAGE + 3", WHICHEVER IS GREATER.

A3 / SF601 TYPICAL STEEL CAP PLATES - REFLECTED PLAN VIEW
NO SCALE



A = 1/2" MIN.
B = 1 1/2" (PER TABLE J3.5 OF THE MANUAL OF STEEL CONSTRUCTION FOR BOLTS LARGER THAN 7/8" DIAMETER)
C = 3" MIN.

A4 / SF601 TYPICAL STEEL BASE PLATES - PLAN VIEW
NO SCALE

LICENSED CERTIFIED STRUCTURAL ENGINEER NO. 170778 MARK R. HARRIS UTAH

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revisions :

STRUCTURAL SCHEDULES

sheet:

SF601

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LEGEND OF MECHANICAL SYMBOLS AND ABBREVIATIONS

MECHANICAL

- POSITIVE PRESSURE DUCT - RISE
- POSITIVE PRESSURE DUCT - DROP
- NEGATIVE PRESSURE DUCT - RISE
- NEGATIVE PRESSURE DUCT - DROP
- ROUND DUCT - RISE
- ROUND DUCT - DROP
- UNDER FLOOR DUCT
- TURNING VANES
- FRESH AIR LOUVER
- RELIEF AIR OR EXHAUST AIR LOUVER
- 12X12 / 200 — CEILING SUPPLY DIFFUSER
- 22X22 / 200 — CEILING RETURN REGISTER
- 12X12 / 200 — CEILING EXHAUST REGISTER, (BALANCE TO MATCH SUPPLY IF RETURN CFM IS NOT SHOWN)
- 24X10 / 200 — SIDEWALL SUPPLY REGISTER
- 24X10 / 200 — SIDEWALL EXHAUST OR RETURN REGISTER
- 12X12 / 200 — CEILING SUPPLY DIFFUSER WITH FLEXIBLE DUCT
- 12X12 / 200 — CEILING AIR GRILLE WITH FLEXIBLE DUCT

  (TOP FIGURES INDICATE NECK SIZE. BOTTOM FIGURE INDICATES CFM.)
- CEILING RETURN AIR GRILE W/ SOUND BOOT
- 3-1" SLOTS @ 48" 400 — LINEAR DIFFUSER WITH PLENUM AND FLEXIBLE DUCT CONNECTION. NO. OF SLOTS & SIZE OF SLOT ON TOP, ACTIVE LENGTH AND CFM ON BOTTOM
- FLEXIBLE DUCT CONNECTION
- FLEXIBLE DUCT
- FAN
- 12/8 FO — FLAT OVAL DUCT WITH NET INSIDE DIMENSIONS SHOWN IN INCHES.
- 12/8 — RECTANGULAR DUCT WITH NET INSIDE DIMENSIONS SHOWN IN INCHES.
- 12 — ROUND DUCT WITH NET INSIDE DIMENSIONS SHOWN IN INCHES.
- UP — INCLINED RISE
- DN — INCLINED DROP

  (WITH RESPECT TO AIR FLOW 15° NOMINAL INCLINE WITH RADIUS TURNS=DEPTH OF DUCT.)
- W R — R/W=1. ROUND DUCT SIMILAR TO RECTANGULAR
- 12/12 8/8 — RECTANGULAR TO RECTANGULAR OR ROUND TO ROUND DUCT TRANSFORMATION MAXIMUM 15° INCLUDED ANGLE EXCEPT WHERE SHOWN OTHERWISE.
- 12/12 12 — RECTANGULAR TO ROUND DUCT TRANSFORMATION
- R — BRANCH DUCT SPLIT WITH 6" WIDTH AND MIN. R=WIDTH OF BRANCH DUCT DOWNSTREAM. ELBOW TURNING VANE OPTIONAL.
- 1.50 1.250 45° D — TAP ENTRY AREA EQUALS 150% OF BRANCH AREA
- 12 12/12 — HIGH EFFICIENCY FITTING
- MANUAL VOLUME DAMPER
- FD — FIRE DAMPER IN DUCT, W/ ACCESS PANEL REQD.
- FSD — COMBINATION FIRE/SMOKE DAMPER W/ ACCESS PANEL
- SD — SMOKE DAMPER W/ ACCESS PANEL
- BDD — BACK DRAFT DAMPER
- ATC OR — ATC DAMPER
- AD — ACCESS PANEL IN DUCT OR PLENUM
- HEATING OR COOLING COIL IN DUCT
- SINGLE DUCT AIR TERMINAL BOX VARIABLE OR CONSTANT VOLUME. MIN. 1-1/2 TERMINAL INLET SIZE STRAIGHT DUCT AT TERMINAL INLET.
- 4-WAY BLOW PATTERN
- 3-WAY BLOW PATTERN
- 2-WAY BLOW PATTERN
- 2-WAY BLOW PATTERN
- 1-WAY BLOW PATTERN
- UNIT HEATER

PLUMBING

- FLOOR SINK
- FLOOR DRAIN
- FCO / COTG — FLOOR CLEAN-OUT OR CLEAN-OUT TO GRADE
- ROOF DRAIN
- DOWNSPOUT NOZZLE
- ARROW INDICATES DIRECTION OF FLOW IN PIPE
- CHECK VALVE
- PRESSURE REDUCING, EXTERNAL PRESSURE VALVE
- PRESSURE REDUCING, SELF CONTAINED VALVE
- ATC VALVE - 2 WAY
- ATC VALVE - 3 WAY
- SOLENOID VALVE
- GATE VALVE
- GATE VALVE - NON RISING STEM
- GLOBE VALVE
- TEMPERATURE AND PRESSURE TEST PORT
- PS — PRESSURE SWITCH
- GAS COCK
- 5.0 GPM — CALIBRATED BALANCING VALVE WITH GPM INDICATED
- RPBP — REDUCED PRESSURE BACKFLOW PREVENTOR W/ DRAIN PAN
- BRANCH - BOTTOM CONNECTION
- BRANCH - TOP CONNECTION
- BRANCH - SIDE CONNECTION
- RISE OR DROP
- RISER - DOWN (ELBOW)
- RISER - DOWN (ELBOW)
- VTR — VENT THRU ROOF
- WATER HAMMER ARRESTOR
- INLINE PUMP
- INLINE PUMP
- CLEAN-OUT
- RELIEF VALVE
- ANGLE VALVE
- FLOW METER
- UNION
- BALANCING COCK
- SHUT-OFF COCK FOR USE WITH PRESSURE GAUGE
- FLEXIBLE EXPANSION JOINT
- THERMOMETER - TEMP RANGE AS INDICATED
- PRESSURE GAUGE WITH SHUT-OFF COCK
- PRESSURE GAUGE WITH PIGTAIL
- LATERAL STRAINER WITH BLOW-OFF VALVE. PROVIDE HOSE END WITH CAP WHERE DISCHARGE IS NOT PIPED TO DRAIN
- BALL VALVE (PIPE SIZES 2" AND SMALLER) BUTTERFLY VALVE (PIPE SIZES 2-1/2" AND LARGER)
- MOTOR OPERATED BUTTERFLY VALVE
- VALVE IN RISE
- AIR VENT-MANUAL
- AIR VENT-AUTO
- FLOW SWITCH
- REDUCER
- CONCENTRIC REDUCER
- ECCENTRIC REDUCER

PLUMBING CONT.

- THERMOSTATIC MIXING VALVE
- HOSE BIBB
- PIPE CAP
- S — SWITCH
- S — SENSOR
- T — THERMOSTAT
- FILL PORT
- DRAIN PAN AND P-TRAP
- (NAME) — FIXTURE FROM LEVEL ABOVE
- GPM / LB/HR. — FLOW METER ORIFICE
- FLANGE
- 90° ELBOW
- DN — LEADER INDICATES DOWNWARD SLOPE
- LUBRICATED PLUG COCK

SYMBOLS

- P-1 — PLUMBING FIXTURES
- POINT OF CONNECTION
- A / M-101 — SECTION TAG - TOP FIGURE IS SECTION NO. BOTTOM FIGURE IS SHEET NO.
- A / M101 — DETAIL TAG - TOP FIGURE IS DETAIL NO. BOTTOM FIGURE IS SHEET NO.
- EF / 1 — EQUIPMENT IDENTIFICATION
- 1 — KEYED NOTE IDENTIFICATION

FIRE

- HOSE VALVE
- M — NRS GATE VALVE WITH SUPERVISION
- F — FLOW SWITCH
- FIRE RISER
- SPRINKLER HEAD
- F — FIRE SPRINKLER WATER

LINETYPES

- BBD — BOILER BLOW DOWN
- BF — BOILER FEED WATER
- CA — COMPRESSED AIR
- CF — CHEMICAL FEED
- DOMESTIC COLD WATER (DCW)
- DOMESTIC HOT WATER (DHW)
- DOMESTIC HOT WATER RETURN (DHWR)
- GHR — GLYCOL HEAT RECOVERY PIPING
- G(NAME) — GLYCOL PIPING SOLUTION
- G — NATURAL GAS
- HWR — HEATING HOT WATER RETURN
- HWS — HEATING HOT WATER SUPPLY
- MUW — MAKE UP WATER
- RD — ROOF DRAIN
- RDO — ROOF DRAIN OVERFLOW
- RL — REFRIGERANT LIQUID
- RS — REFRIGERANT SUCTION
- SEWER (BELOW GRADE)
- SEWER (ABOVE GRADE)
- SW — SOFT DOMESTIC WATER (SW)
- VENT (SEWER)

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revisions :

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MECHANICAL SYMBOL LEGEND

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GENERAL NOTES

1. DUCTWORK, PIPING AND EQUIPMENT SHALL BE COORDINATED WITH STRUCTURE, LIGHTS, REFLECTED CEILING PLANS, CABLE TRAY, ELECTRICAL CONDUIT, PLUMBING, MECHANICAL AND FIRE PROTECTION PIPING, MEDICAL GASES, ALL OTHER TRADES AND ALL OTHER EXISTING CONDITIONS.
2. THE CONTRACTOR SHALL INFORM THE DESIGNER OF ANY PROPOSED DEVIATIONS FROM THE CONTRACT DOCUMENTS.
3. NOT ALL INFORMATION IS SHOWN ON THE HVAC DRAWINGS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING INFORMATION ON ALL OTHER CONSTRUCTION DOCUMENTS INCLUDING ARCHITECTURAL, STRUCTURAL, MECHANICAL, AND ELECTRICAL DRAWINGS. THE CONTRACTOR WILL BE FAMILIAR WITH THE DRAWINGS, SPECIFICATIONS, AND ADDENDUMS.
4. THE WORKING DRAWINGS ARE DIAGRAMMATIC (DRAWINGS ARE NOT TO BE SCALED). BECAUSE OF THE SMALL SCALE OF THE DRAWINGS, THEY DO NOT SHOW EVERY OFFSET, BEND OR ELBOW NECESSARY FOR THE COMPLETE INSTALLATION IN THE SPACE PROVIDED. ALL LOCATIONS FOR HVAC EQUIPMENT SHALL BE CHECKED AND COORDINATED WITH THE ARCHITECTURAL, MECHANICAL, STRUCTURAL, AND ELECTRICAL DRAWINGS.
5. SPACE ABOVE ALL CEILINGS IS EXTREMELY LIMITED. CAREFUL COORDINATION IS REQUIRED WITH ALL TRADES BEFORE ANY PIPE, DUCT, OR EQUIPMENT IS ORDERED AND/OR INSTALLED. 1/4" SCALE SHOP DRAWINGS (SUBMITTED TO ENGINEER FOR APPROVAL) ARE REQUIRED FOR ALL DIVISION THIS WORK. ANY CONFLICTS AND/OR CHANGES FOUND DURING INSTALLATION THAT RESULT FROM LACK OF COORDINATION BY THE CONTRACTORS DURING THE SHOP DRAWING PROCESS ARE THE RESPONSIBILITY OF THE CONTRACTOR
6. THE DRAWINGS AND SPECIFICATION HAVE BEEN PREPARED TO SUPPLEMENT EACH OTHER AND THEY SHALL BE INTERPRETED AS AN INTEGRAL UNIT WITH THE ITEMS SHOWN ON ONE AND NOT THE OTHER BEING FURNISHED AND INSTALLED AS THOUGH SHOWN AND CALLED OUT IN BOTH.
7. ANY PART OF THIS INSTALLATION THAT FAILS, IS UNFIT, OR BECOMES DAMAGED DURING CONSTRUCTION SHALL BE REPAIRED OR REPLACED BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE OWNER.
8. ALL EQUIPMENT SHALL PROVIDE THE SCHEDULED PERFORMANCE AT THE SITE ALTITUDE.
9. THE CONTRACTOR IS RESPONSIBLE FOR ALL EQUIPMENT (INCLUDED IN THIS BID) CHECK-IN, SAFE KEEPING, AND DAMAGE.
10. HEATING HOT WATER, SUPPLY AND RETURN MAY BE DIRECTLY SUPPORTED TO UNISTRUT BY MEANS OF CLAMPS, AND INSULATED UP TO SUPPORT SYSTEM.

PLUMBING GENERAL NOTES

25. INSTALL CLEANOUTS IN DRAIN PIPING AS INDICATED, AND WHERE NOT INDICATED, ACCORDING TO THE FOLLOWING.

    a) SIZE SAME AS DRAINAGE PIPING UP TO 4" NPS. USE 4" NPS FOR LARGER. DRAINAGE PIPING UNLESS LARGER CLEANOUT IS INDICATED.

    b) LOCATE AT MINIMUM INTERVALS OF 50 FT FOR PIPING 4" NPS AND SMALLER AND 100 FT FOR LARGER PIPING.

    c) LOCATE AT THE BASE OF EACH VERTICAL STACK.

PLUMBING GENERAL NOTES

1. UNLESS OTHERWISE NOTED, SLOPE PIPE AS FOLLOWS: WASTE BRANCHES: 1/4" PER FOOT; WASTE MAINS: 1/4" PER FOOT; ROOF DRAIN/ROOF DRAIN OVERFLOW: 1/8" PER FOOT.
2. ALL WORK DONE SHALL BE PERFORMED WITH WATER CONTROL IN MIND. CONTAINMENT OF WATER IS NECESSARY TO PREVENT WATER FROM DAMAGING AREAS ON FLOORS BELOW.
3. PLUMBING DRAWINGS ARE SCHEMATIC IN NATURE. FIELD VERIFY EXACT PIPE ROUTING AND COORDINATE WITH ALL OTHER TRADES.
4. ALL PIPING IN PLUMBING CHASES SHALL BE ARRANGED TO ALLOW MAINTENANCE ACCESS.
5. NO PIPING TO RUN OVER ELECTRICAL PANELS, VFD'S OR MCC'S. PROTECT EQUIPMENT WITH A 42" DEEP ZONE IN FRONT OF PANELS, VFD'S, AND MCC'S.
6. CONTRACTOR TO PROVIDE VALVE IDENTIFICATION AND LOCATION ON ALL CEILING TILES WHERE VALVES ARE LOCATED.
7. EXISTING PIPING AND ROUTING SHOWN, INCLUDING ALL BELOW FLOOR DECK PIPING, IS APPROXIMATE. IT IS UP TO THE CONTRACTOR TO FIELD VERIFY THE EXACT LOCATION AND SIZE OF ALL PIPING.
8. REFER TO ARCHITECTURAL DRAWINGS FOR FIXTURE MOUNTING HEIGHTS, DIMENSIONS, AND OTHER REQUIREMENTS.
9. CONTRACTOR TO VERIFY CONNECTION SIDE OF ADA FIXTURES AND ADJUST ACCORDINGLY. INSTALL FLUSH VALVES HANDLES ON WIDE SIDE OF ALL FIXTURES.
10. LOCATE ALL VENTS MINIMUM 25' AWAY FROM AIR INTAKES.
11. INSTALL ALL DOMESTIC WATER LINES BELOW DUCTWORK.
12. INSTALL A 24" X 24" ACCESS DOOR BELOW ALL ISOLATION VALVES, BALANCING VALVES AND WATER HAMMER ARRESTORS WHERE MOUNTED ABOVE HARD CEILINGS.
13. MOUNT ALL ISOLATION VALVES, CONTROL VALVES, BALANCING VALVES, ETC. NEAR CEILING HEIGHT FOR ACCESSIBILITY.
14. INSTALL ALL EQUIPMENT WITH SUFFICIENT CLEARANCE FOR MAINTENANCE PER MANUFACTURERS RECOMMENDATION.
15. COORDINATE ALL FLOOR PENETRATIONS WITH STRUCTURAL AND PROVIDE SLEEVES AS NECESSARY.
16. COORDINATE EXACT LOCATION OF PLUMBING WITH STRUCTURAL MEMBERS, LIGHTS, REFLECTED CEILING, CABLE TRAY, DUCTWORK, MECHANICAL PIPING, MEDICAL GASES, FIRE PROTECTION AND OTHER TRADES, TYPICAL.
17. COORDINATE THE LOCATION OF THE FLOOR DRAIN, SHOWER DRAIN, OR FLOOR SINK WITH ARCHITECTURAL AND STRUCTURAL, TYPICAL.
18. ACCESS DOORS SHALL BE PROVIDED TO ALL WATER HAMMER ARRESTORS IN WALLS OR ABOVE CEILINGS.
19. SEE PLUMBING FIXTURE SCHEDULE FOR PIPE SIZES OF WASTE, VENT AND DOMESTIC WATER TO/FROM SINGLE FIXTURE.
20. HOSE BIBBS SHOWN AT LAVATORIES ARE TO BE MOUNTED AT AN ACCESSIBLE LOCATION UNDER THE LAVATORY.
21. COORDINATE EXACT LOCATION OF PLUMBING PIPING WITH STRUCTURAL MEMBERS, LIGHTS, REFLECTED CEILING PLANS, CABLE TRAY, ELECTRICAL CONDUITS, DUCTWORK, MECHANICAL AND FIRE PROTECTION PIPING, AND ALL OTHER TRADES AND ALL EXISTING CONDITIONS.
22. LOCATE CIRCUIT SETTERS, VALVES, WATER HAMMER ARRESTORS, ETC. IN ACCESSIBLE LOCATIONS. PROVIDE 24"X24" ACCESS PANEL WHERE ITEM IS LOCATED ABOVE A HARD CEILING.
23. ALL PIPE AND DUCT SIZES SHALL REMAIN THE SAME SIZE SHOWN, IN THE DIRECTION OF FLOW, UNTIL SHOWN OTHERWISE.

MECHANICAL PIPING GENERAL NOTES

1. PROVIDE ALL MATERIALS AND EQUIPMENT AND PERFORM ALL LABOR REQUIRED TO INSTALL COMPLETE AND OPERABLE PIPING SYSTEMS AS INDICATED ON THE DRAWINGS, AS SPECIFIED AND AS REQUIRED BY CODE.
2. UNLESS OTHERWISE NOTED: ALL MECHANICAL PIPING IS OVERHEAD TO RUN ABOVE DUCTWORK AND TIGHT TO UNDERSIDE OF STRUCTURE.
3. WHERE VALVING OR EQUIPMENT IS LOCATED ABOVE HARD CEILINGS PROVIDE AN ACCESS DOOR IN CEILING. MINIMUM ACCESS DOOR SIZE OF 24"X24".
4. NO PIPING TO RUN OVER ELECTRICAL PANELS, VFD'S OR MCC'S. PROTECT EQUIPMENT WITH A 42" DEEP ZONE IN FRONT OF PANELS, VFD'S, AND MCC'S.
5. SLEEVE PIPING THRU WALLS/FOUNDATIONS WHERE REQUIRED.
6. INSTALL PIPING SO THAT ALL VALVES, STRAINERS, UNIONS, TRAPS, FLANGES, AND OTHER APPURTENANCES REQUIRING ACCESS ARE ACCESSIBLE.
7. ALL VALVES SHALL BE INSTALLED SO THAT VALVE REMAINS IN SERVICE WHEN EQUIPMENT OR PIPING ON EQUIPMENT SIDE OF VALVE IS REMOVED.
8. PROVIDE AN AIR VENT AT THE HIGH POINT OF EACH DROP IN THE HEATING WATER PIPING SYSTEM.
9. INSTALL ALL PIPING WITHOUT FORCING OR SPRINGING.
10. ALL VALVES SHALL BE ADJUSTED FOR SMOOTH AND EASY OPERATION.
11. PROVIDE ISOLATION VALVES AT EACH EXIT/ENTRANCE INTO SHAFT WHETHER OR NOT SHOWN.
12. ALL PIPE AND DUCT SIZES SHALL REMAIN THE SAME SIZE SHOWN, IN THE DIRECTION OF FLOW, UNTIL SHOWN OTHERWISE.
13. COORDINATE LOCATION OF THERMOSTAT WITH ARCHITECTURAL FURNISHING PLANS. MOUNT THERMOSTAT AT HEIGHT AS SPECIFIED ON ARCHITECTURAL.
14. CONTRACTOR TO PROVIDE VALVE IDENTIFICATION AND LOCATION ON ALL CEILING TILES WHERE VALVES ARE LOCATED.

FIRE PROTECTION GENERAL NOTES

1. NO FIRE PROTECTION LINE SHALL BE DESIGNED OR INSTALLED PRIOR TO CLOSE COORDINATION WITH ALL OTHER DISCIPLINES. DUCTWORK, MECHANICAL PIPING AND PLUMBING TAKE SPACE PRECEDENCE OVER FIRE PROTECTION PIPING. FAILURE TO COMPLY WILL RESULT IN THE FIRE PROTECTION REMOVAL AND REINSTALLATION AT THE FIRE PROTECTION CONTRACTORS EXPENSE.
2. ALL WORK DONE SHALL BE PERFORMED WITH WATER CONTROL IN MIND. CONTAINMENT OF WATER IS NECESSARY TO PREVENT WATER FROM DAMAGING SURROUNDING AREA.
3. COORDINATE EXACT LOCATION OF PIPING WITH STRUCTURAL MEMBERS, LIGHTS, REFLECTED CEILING PLANS, CABLE TRAY, ELECTRICAL CONDUITS, DUCTWORK, MECHANICAL AND PLUMBING PIPING, AND ALL OTHER TRADES AND ALL EXISTING CONDITIONS.
4. ALL SPRINKLERS SHALL BE QUICK RESPONSE TYPE.

MECHANICAL GENERAL NOTES

1. COORDINATE EXACT PLACEMENT OF DIFFUSERS, GRILLES, AND REGISTERS WITH ARCHITECTURAL REFLECTED CEILING PLAN, TYPICAL.
2. SEE DETAIL FOR DIFFUSER CONNECTIONS TO DUCTWORK, TYPICAL.
3. BRANCH DUCTWORK SHALL BE SIZED TO MATCH THE NECK INLET SIZE OF THE DIFFUSERS, REGISTER OR GRILLE IT SERVES UNLESS NOTED OTHERWISE, TYPICAL.
4. COORDINATE EXACT MOUNTING LOCATION OF ALL THERMOSTATS WITH LATEST REVISION OF ARCHITECTURAL ELEVATION AND FURNISHINGS PLANS, TYPICAL.
5. THE MECHANICAL CONTRACTOR SHALL BE RESPONSIBLE FOR CAULKING AND SEALING ALL PENETRATIONS IN FIRE AND SMOKE RATED PARTITIONS TO MAINTAIN RATINGS. SEE SPECIFICATION, TYPICAL.
6. THE MECHANICAL CONTRACTOR SHALL PROVIDE FIRE, SMOKE OR COMBINATION FIRE/SMOKE DAMPERS AT ALL LOCATIONS SHOWN ON THE CONTRACT DOCUMENTS AND AS REQUIRED TO MEET THE INTEGRITY OF ALL SMOKE AND FIRE PARTITIONS. THE CONTRACTOR SHALL REFER TO THE LATEST ARCHITECTURAL LIFE SAFETY PLANS FOR ALL FIRE AND SMOKE PARTITION LOCATIONS. DAMPERS ARE TO BE PROVIDED WITH SHUTOFF/TEST SWITCH AT EACH LOCATION.
7. PROVIDE AND INSTALL TURNING VANES IN ALL SQUARE LOW PRESSURE DUCTWORK AT ELBOWS OR TEES, TYPICAL.
8. INSTALL ALL TERMINAL BOXES IN EASILY ACCESSIBLE AND SERVICEABLE LOCATIONS, MEETING ALL MANUFACTURERS REQUIRED CLEARANCES ON EACH SIDE, SEE DETAILS, TYPICAL.
9. CONTRACTOR SHALL OFF-SET, TRANSITION AND PROVIDE CHANGES AS REQUIRED FOR COORDINATION WITH OTHER TRADES, TYPICAL.
10. DUCTWORK SIZES SHOWN ARE INSIDE CLEAR DIMENSIONS. REFER TO MECHANICAL SPECIFICATIONS FOR EXTENT OF DUCT INSULATION AND LINER.
11. PROVIDE AND INSTALL REMOTE DAMPER OPERATORS FOR ALL DAMPERS INSTALLED ABOVE INACCESSIBLE CEILINGS, SEE MECHANICAL SPECIFICATIONS FOR EQUIPMENT REQUIREMENTS, TYPICAL.
12. PROVIDE AND INSTALL HIGH EFFICIENCY TAKE-OFF FITTINGS AND BALANCING DAMPER AT ALL BRANCH CONNECTIONS TO LOW PRESSURE DUCTWORK.
13. PROVIDE AND INSTALL HIGH EFFICIENCY OR CONICAL TAKE-OFFS AT ALL BRANCH CONNECTIONS TO MEDIUM PRESSURE DUCTWORK.
14. AT LOCATIONS WHERE DIFFUSERS OR GRILLES ARE UNDER DUCTWORK, CONTRACTOR TO FABRICATE TRANSITION BOOT FROM FLEX CONNECTION TO DIFFUSER OR GRILLE WITH BALANCING DAMPER, TYPICAL.
15. THE MECHANICAL CONTRACTOR SHALL PROVIDE CEILING MOUNTED ACCESS DOORS FOR ALL FIRE, SMOKE AND COMBINATION FIRE/SMOKE DAMPERS INSTALLED ABOVE INACCESSIBLE CEILING. FIELD VERIFY EXACT INSTALLATION LOCATIONS PRIOR TO COMMENCING WORK AND COORDINATE INSTALLATIONS WITH LATEST ARCHITECTURAL REFLECTED CEILING PLANS.
16. MECHANICAL CONTRACTOR SHALL ENSURE THAT ALL EQUIPMENT IS PROVIDED AND INSTALLED WITH CLEARANCES PER MANUFACTURERS RECOMMENDATIONS. THE CONTRACTOR SHALL MAINTAIN PROPER SERVICE SPACE FOR COIL PULLS, BAS DEVICES, MAINTENANCE ACCESS, ETC.
17. ALL VAV BOXES TO HAVE REHEAT COILS, EXCEPT AS NOTED. PROVIDE A MINIMUM OF TWO DUCT DIAMETERS OF STRAIGHT ROUND DUCT TO INLET OF VAV BOX. BOX SHALL BE HARD CONNECTED (CONICAL) TO MEDIUM PRESSURE DUCT, TYPICAL.
18. PROVIDE ACCESS DOORS TO ACCESS VAV BOX CONTROLS ABOVE HARD CEILINGS. PROVIDE MIN. 24" X 24".
19. ALL PIPE AND DUCT SIZES SHALL REMAIN THE SAME SIZE SHOWN, IN THE DIRECTION OF FLOW, UNTIL SHOWN OTHERWISE.
20. ALL DUCTWORK ABOVE HARD CEILINGS SHALL BE EXTENDED ALL THE WAY TO THE SUPPLY DIFFUSERS, RETURN GRILLS OR EXHAUST GRILLS WHETHER OR NOT HARD DUCT OR FLEX DUCT IS SHOWN ON PLANS. FLEX DUCT WILL NOT BE ALLOWED TO DIFFUSERS OR GRILLES ABOVE HARD CEILINGS. FLEX DUCT WILL BE REQUIRED IN AREAS ABOVE T-BAR CEILINGS.
21. NEW DUCTWORK, PIPING AND EQUIPMENT SHALL BE COORDINATED WITH STRUCTURE, LIGHTS, REFLECTED CEILING PLANS, CABLE TRAY, ELECTRICAL CONDUIT, PLUMBING, MECHANICAL AND FIRE PROTECTION PIPING, MEDICAL GASES, ALL OTHER TRADES AND ALL OTHER EXISTING CONDITIONS.
22. THE CONTRACTOR SHALL INFORM THE DESIGNER OF ANY PROPOSED DEVIATIONS FROM THE CONTRACT DOCUMENTS.
23. PROVIDE ACCESS TO ALL TEMPERATURE CONTROLS ABOVE CEILING. LOCATE IN ACCESSIBLE LOCATION. WHERE THERE ARE HARD CEILINGS THE CONTRACTOR SHALL PROVIDE 24"X24" ACCESS DOOR.
24. UNLESS OTHERWISE NOTED ALL CEILING SUPPLY GRILLES, RETURN GRILLES & EXHAUST GRILLES SHALL BE CD-1, RG-1 & EG-1 RESPECTIVELY.
25. INSTALL ALL SQUARE TO ROUND FITTINGS PER HIGH EFFICIENCY TAKEOFF DETAIL.
26. PROVIDE FLEXIBLE EXPANSION JOINTS ON ALL DUCTWORK, PIPING, FIRE SPRINKLING, PLUMBING, ETC. WHERE ANY SYSTEM CROSSES THE BUILDING EXPANSION JOINT. SEE ARCHITECTURAL PLAN FOR LOCATION OF BUILDING EXPANSION JOINT.

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project#: 11.0420
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GENERAL NOTES

sheet:

ME002

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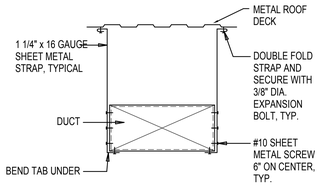
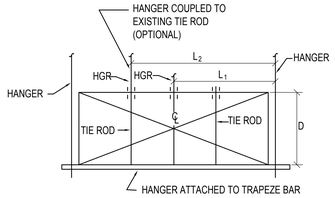


NOTE:
USE SPECIFIED SPACING AND NOT LESS THAN ONE SUPPORT PER BRANCH.

1 ME501 RECTANGULAR DUCT SUPPORT
NO SCALE



2 ME501 LARGE DUCT REINFORCEMENT DETAIL
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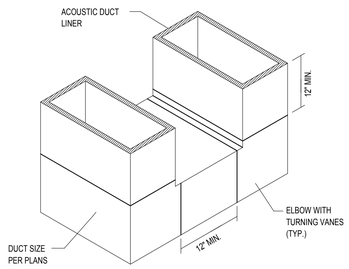

3 ME501 RETURN AIR TRANSFER DUCT DETAIL
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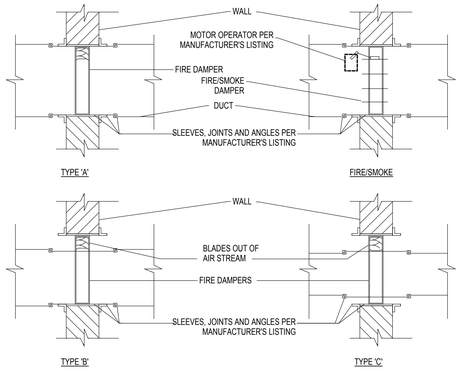
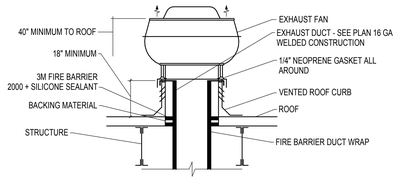
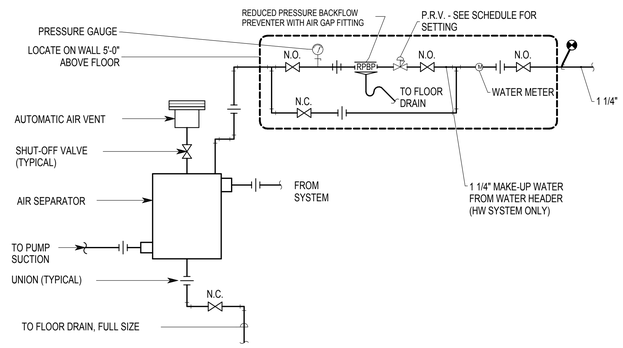


7 ME501 FIRE DAMPER & FIRE/SMOKE DAMPER DETAILS
NO SCALE

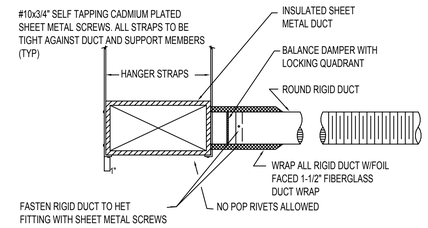


NOTE: MECHANICAL EQUIPMENT TO SIT LEVEL. ORDER CURB TO COMPENSATE FOR ROOF SLOPE.

4 ME501 KITCHEN HOOD EXHAUST FAN DETAIL
NO SCALE



8 ME501 AIR SEPARATOR DETAIL
NO SCALE



10 ME501 FLEX DUCT / HIGH EFFICIENCY TAKEOFF FITTING
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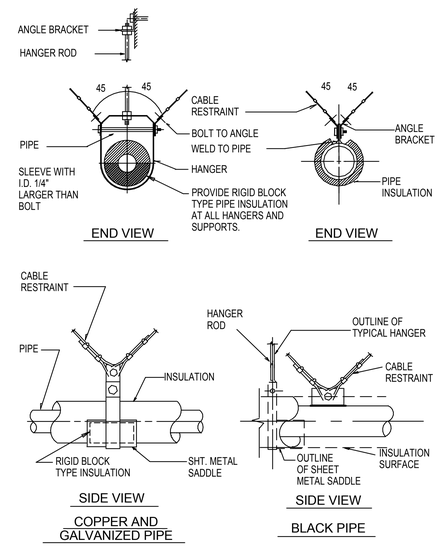
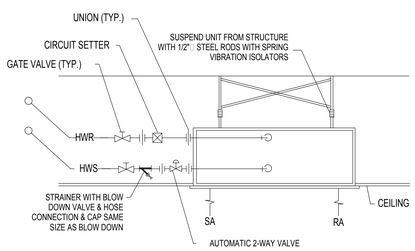


11 ME501 PIPING RESTRAINT DETAIL
NO SCALE



5 ME501 SURFACE MOUNTED UNIT HEATER DETAIL
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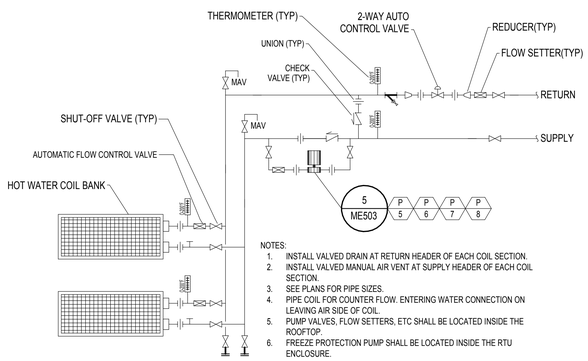
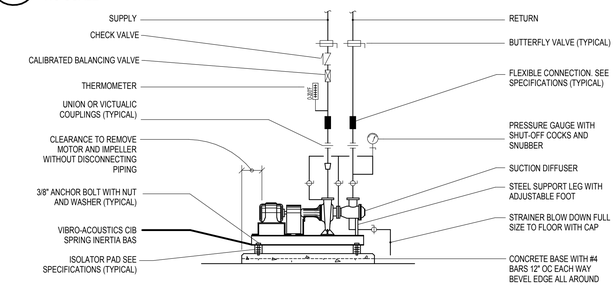


NOTES:
1. INSTALL VALVED DRAIN AT RETURN HEADER OF EACH COIL SECTION.
2. INSTALL VALVED MANUAL AIR VENT AT SUPPLY HEADER OF EACH COIL SECTION.
3. SEE PLANS FOR PIPE SIZES.
4. PIPE COIL FOR COUNTER FLOW. ENTERING WATER CONNECTION ON LEAVING AIR SIDE OF COIL.
5. PUMP VALVES, FLOW SETTERS, ETC SHALL BE LOCATED INSIDE THE ROOFTOP.
6. FREEZE PROTECTION PUMP SHALL BE LOCATED INSIDE THE RTU ENCLOSURE.

9 ME501 PRE-HEAT COIL SCHEMATIC
NO SCALE

12 ME501 NOT USED
NO SCALE



13 ME501 PUMP CONNECTION DETAIL
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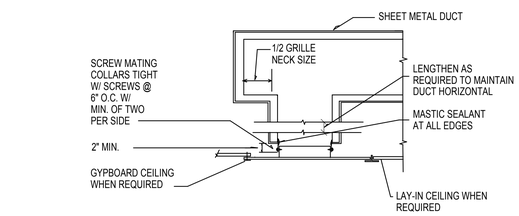

6 ME501 TYPICAL EXHAUST GRILLE DETAIL
NO SCALE

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ME501

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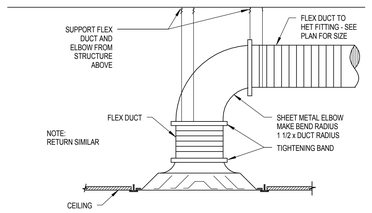

1 ME502 DIFFUSER CONNECTION DETAIL

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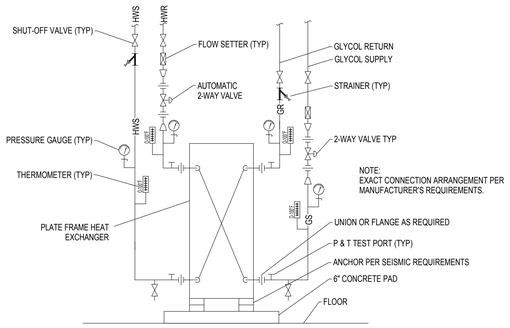

2 ME502 HOT WATER TO GLYCOL HEAT EXCHANGER PIPING DETAIL

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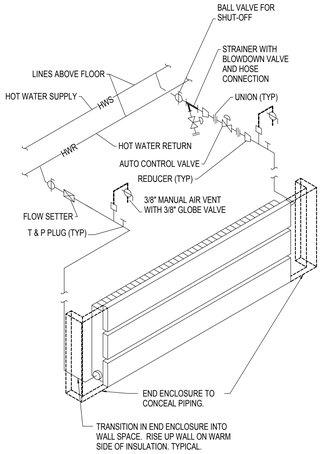
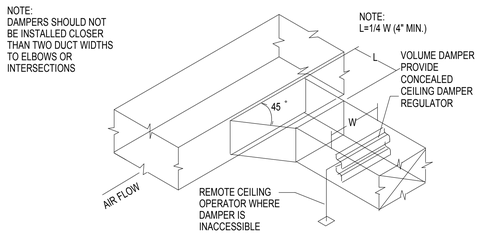


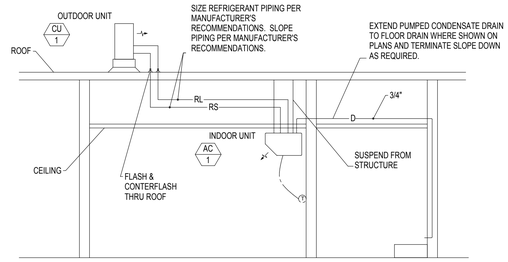
3 ME502 RADIANT PANEL PIPING SCHEMATIC

NO SCALE



4 ME502 BRANCH DUCT TAKE-OFF & DAMPER

NO SCALE



5 ME502 SPLIT SYSTEM CONDITIONING UNIT DETAIL

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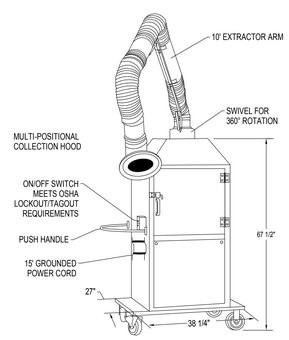
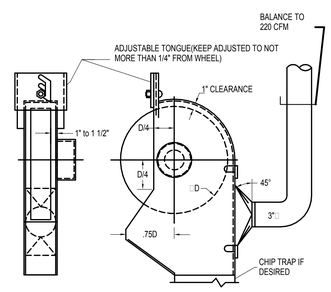


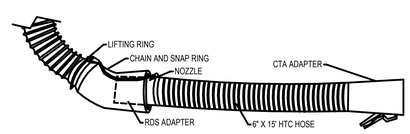
8 ME502 PORTABLE AIR CLEANER DETAIL

NO SCALE



9 ME502 GRINDING WHEEL HOOD

NO SCALE



10 ME502 EXHAUST EXTENSION HOSE DETAIL

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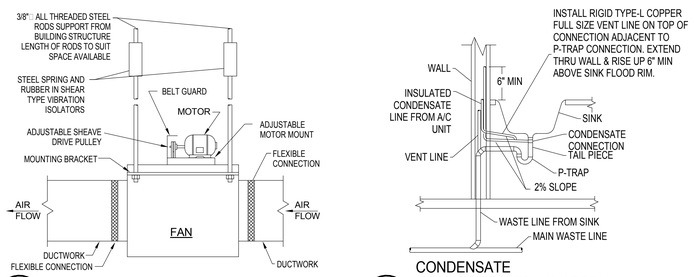
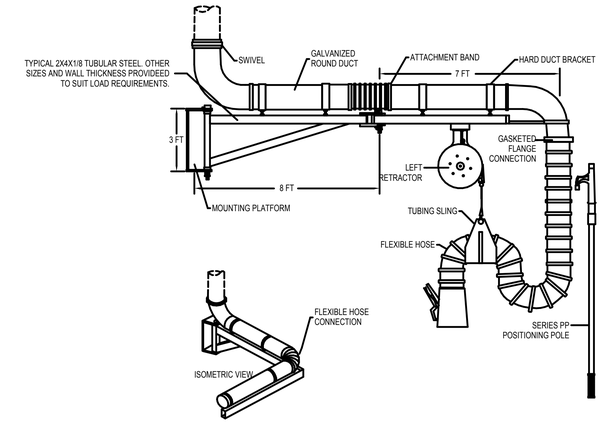


6 ME502 CENTRIFUGAL INLINE EXHAUST FAN

NO SCALE

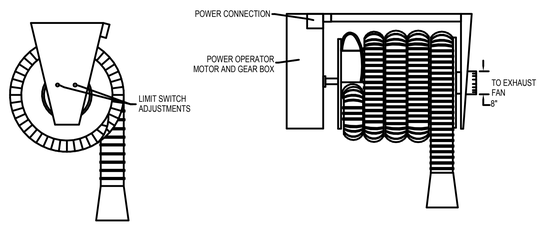
7 ME502 CONDENSATE CONNECTION TO LAVATORY

NO SCALE



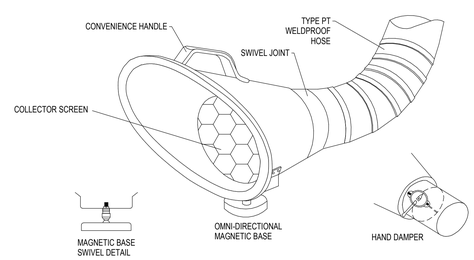
11 ME502 ARTICULATED EXHAUST ARM ASSEMBLY DETAIL

NO SCALE



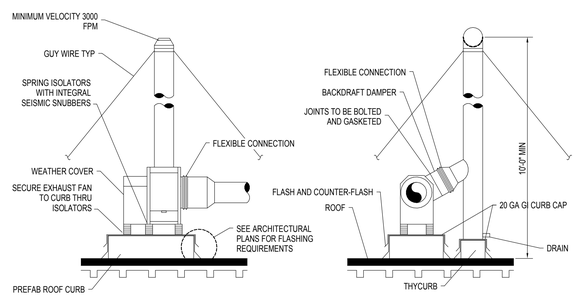
12 ME502 TUBING STORAGE REEL DETAIL

NO SCALE



13 ME502 WELDING HOOD HOSE ASSEMBLY DETAIL

NO SCALE



14 ME502 UTILITY EXHAUST FAN DETAIL

NO SCALE

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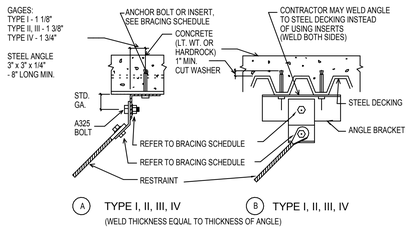
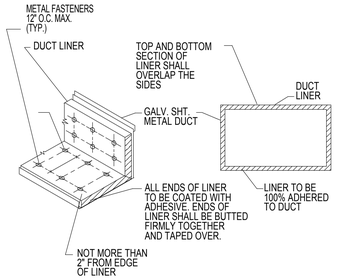


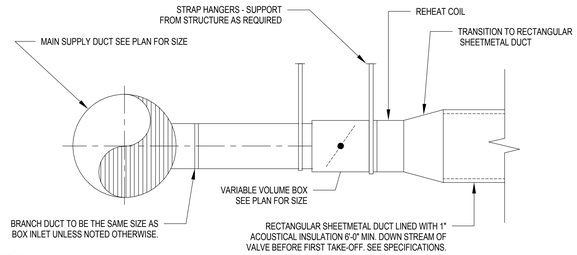
1 ME503 RESTRAINT CONNECTIONS TO STEEL

NO SCALE



7 ME503 DUCT LINER DETAIL

NO SCALE



14 ME503 VARIABLE VOLUME BOX DETAIL

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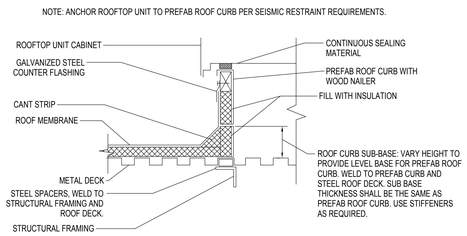
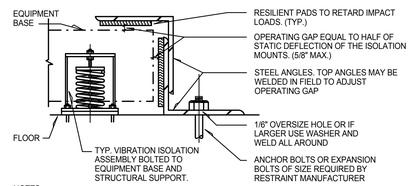


2 ME503 ROOFTOP UNIT CURB DETAIL

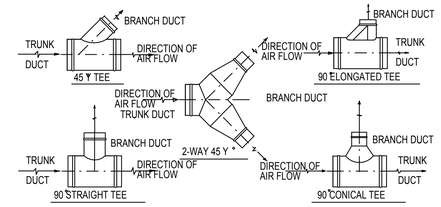
NO SCALE



NOTES:
1 DESIGN RESTRAINT DEVICES (ANGLES AND BOLTS) TO WITHSTAND 1.0g LATERAL AND VERTICAL LOADS.
2 INSTALL LATERAL RESTRAINING DEVICES ON ALL SIDES OF EQUIPMENT BASE

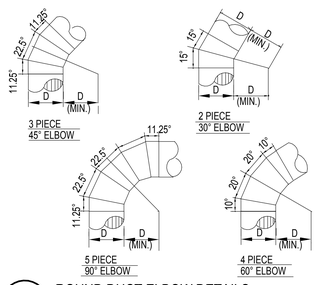
8 ME503 SPRING ISOLATOR RESTRAINT DETAIL

NO SCALE



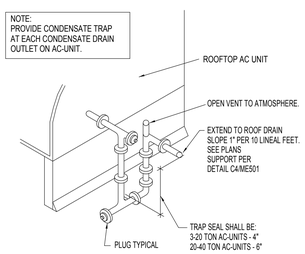
15 ME503 ROUND DUCT BRANCH TAKE-OFF DETAILS

NO SCALE



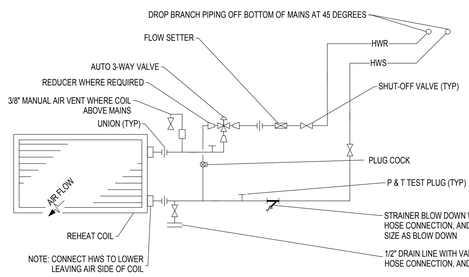
3 ME503 ROUND DUCT ELBOW DETAILS

NO SCALE



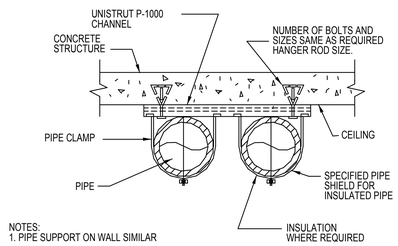
4 ME503 CONDENSATE TRAP

NO SCALE



9 ME503 VAV/CV BOX PIPING DETAIL WITH 3-WAY AUTO-VALVE

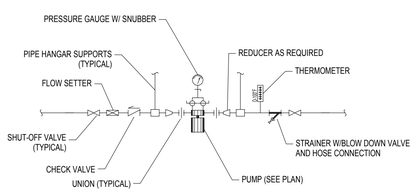
NO SCALE



NOTES:
1. PIPE SUPPORT ON WALL SIMILAR

16 ME503 PIPE SUPPORT ON CEILING

NO SCALE



5 ME503 IN-LINE PUMP DETAIL

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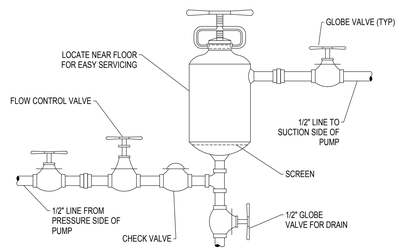

10 ME503 POT TYPE CHEMICAL FEEDER DETAIL

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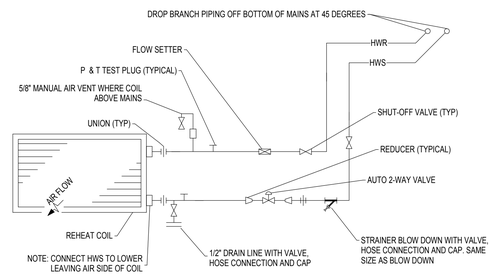
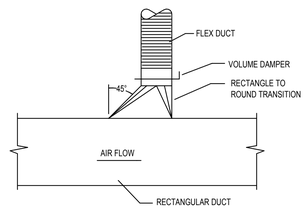


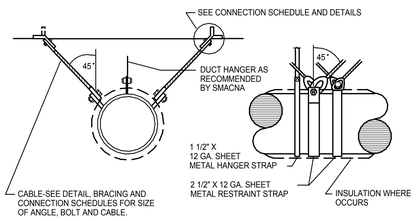
12 ME503 VAV/CV BOX PIPING DETAIL WITH 2-WAY AUTO-VALVE

NO SCALE



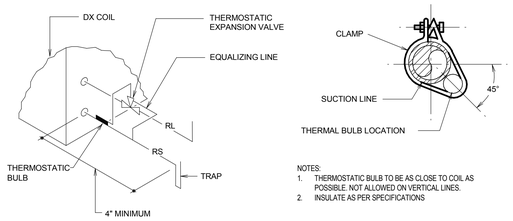
17 ME503 HIGH EFFICIENCY TAKE-OFF DETAIL

NO SCALE



6 ME503 CABLE BRACING FOR ROUND AND OVAL DUCTS

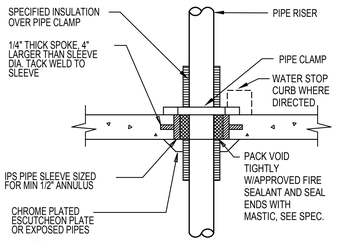
NO SCALE



NOTES:
1. THERMOSTATIC BULB TO BE AS CLOSE TO COIL AS POSSIBLE. NOT ALLOWED ON VERTICAL LINES.
2. INSULATE AS PER SPECIFICATIONS

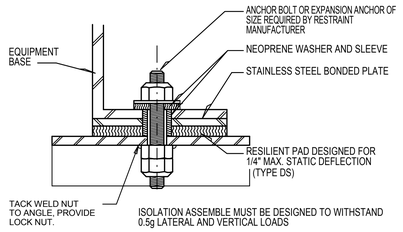
11 ME503 REFRIGERANT COIL CONNECTION DETAIL

NO SCALE



13 ME503 PIPE THROUGH FLOOR SLAB DETAIL

NO SCALE



18 ME503 RESILIENT PAD ISOLATOR RESTRAINT DETAIL

NO SCALE

LICENSED PROFESSIONAL ENGINEER
No. 275661
RAYMOND D. VERNON
STATE OF UTAH

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project:
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88 South Tooele Blvd
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date: 1/20/11

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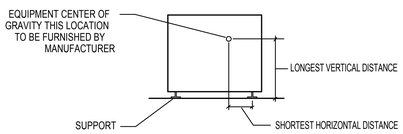
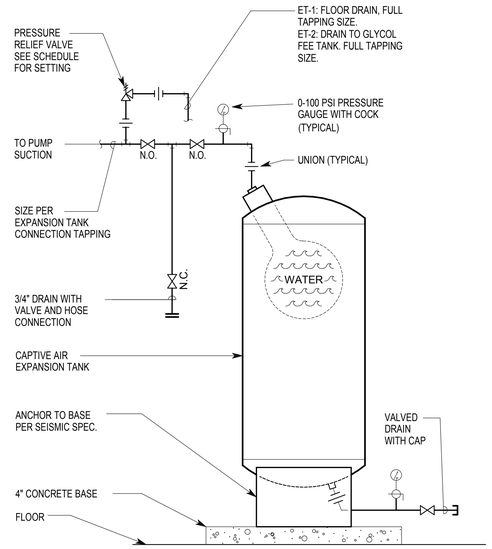
EQUIPMENT ANCHORAGE TO CONCRETE FLOOR LIST

EQUIPMENT WEIGHT PER ANCHOR BOLT	MINIMUM ANCHOR DIAMETER (INCHES)	MINIMUM DEPTH OF EMBEDMENT (INCHES)	ICBO ALLOWABLE SHEAR PER BOLT (LBF)	ICBO ALLOWABLE TENSION PER BOLT (LBF)
UP TO 150#	1/4"	1-1/2"	380	215
300#	3/8"	2-1/2"	860	355
600#	1/2"	3"	1710	665
900#	5/8"	4-1/2"	2500	855
1300#	3/4"	6"	3050	1585
2000#	1"	6"	6280	2020

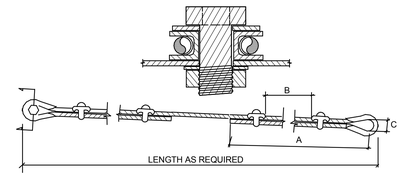
1 THE SIZES AND EMBEDMENT ARE FOR ANCHORS INSTALLED IN STONE AGGREGATE CONCRETE HAVING A FC = 2000 PSI ULTIMATE COMPRESSIVE STRENGTH AT THE TIME OF INSTALLATION. ALL BOLTS ARE TO BE INSTALLED PER MANUFACTURER INSTRUCTIONS AND TO BE INSTALLED NO CLOSER THAN 12 DIAMETERS ON CENTER AND WITH A MINIMUM EDGE DISTANCE OF 6 DIAMETERS.
2 EACH EQUIPMENT SUPPORT LEG WILL BE ANCHORED AND ALL EQUIPMENT WILL BE ANCHORED AT ALL CORNERS. A MINIMUM OF TWO ANCHORS WILL BE REQUIRED FOR ALL EQUIPMENT.
3 EQUIPMENT WEIGHT PER ANCHOR IS THE TOTAL OPERATING OF EQUIPMENT PLUS BASES AND SUPPORTS DIVIDED BY THE NUMBER OF ANCHORS.
4 ANCHORAGE IS TO PREVENT HORIZONTAL MOVEMENT, IF EQUIPMENT GEOMETRY IS SUCH THAT THE VERTICAL DISTANCE FROM SUPPORT LEG TO CENTER OF GRAVITY IS GREATER THAN FOUR TIMES THE SHORTEST DISTANCE FROM A SUPPORT LEG TO THE CENTER OF GRAVITY, ADDITIONAL ANCHORAGE AND RESTRAINTS WILL BE REQUIRED TO PREVENT OVERTURNING.





3 ME504 EXPANSION TANK DETAIL

NO SCALE



NOTES:

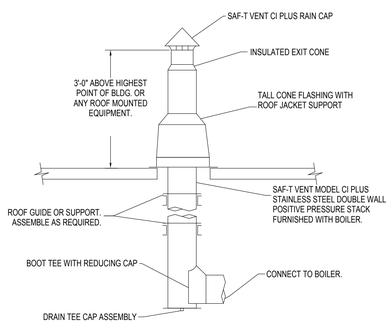
1 CABLES, THIMBLES, CLIPS, GROMMETS & FLAT WASHERS ARE TO BE FURNISHED BY RESTRAINT MANUFACTURER. ALL OTHER HARDWARE TO BE PROVIDED BY CONTRACTOR.
2. ENTIRE SYSTEM TO BE EQUAL TO AMBER BOOTH.
3. CABLE CLIPS MUST BE ORIENTED AS SHOWN WITH SHORT END OF CABLE ON THE CURVED PART OF THE CLIP.

CABLE SCHEDULE

CABLE DIA.	CABLE DESIGN	A	B	C	BOLT SIZE	ALLOWABLE LOADING	BREAKING STRENGTH (lbf)
1/8"	7X19 GALV.	5-1/4"	1-5/8"	5/8"	3/8"	660	2000
3/16"	7X19 GALV.	5-3/4"	1-7/8"	5/8"	3/8"	1400	4200
1/4"	7X19 GALV.	6-3/4"	2-3/8"	11/16"	3/8"	2330	7000
5/16"	7X19 GALV.	7-3/8"	2-5/8"	13/16"	5/8"	3260	9800
3/8"	7X19 GALV.	8-7/8"	3-1/4"	1"	5/8"	4800	14400
7/16"	6X19 IWRC	17"	3-5/8"	1"	5/8"	5920	17800
1/2"	6X19 IWRC	18"	3-7/8"	1-1/8"	3/4"	7660	23000

6 ME504 CABLE RESTRAINT DETAIL

NO SCALE



BOILER FLUE NOTES:
1. INSTALL PER MANUFACTURER'S RECOMMENDATIONS.

2. INSTALL WITH NO LESS THAN 1/4" PER LINEAL FOOT SLOPE BACK TO THE APPLIANCE.

3. INSTALL DRAIN & CONDENSATE PER BOILER MANUFACTURER'S RECOMMENDATIONS.

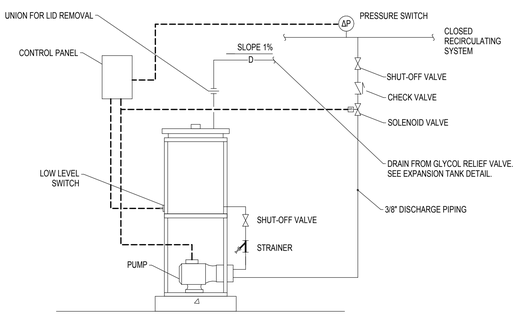
4. PROVIDE ADEQUATE SUPPORT AFTER EVERY OFFSET ELBOW & AFTER EVERY 6'-0" OF HORIZONTAL RUN & AT EACH ADJUSTABLE FITTING.

5. USE MANUFACTURER APPROVED RTV SEALANT ONLY.

NOTE:
PROVIDE ADJUSTABLE LENGTHS FOR EXPANSION, GUIDES, SUPPORTS, FITTINGS, ETC AS REQUIRED FOR A COMPLETE ASSEMBLY.

1 ME504 CONDENSING BOILER PRESSURE TYPE STACK DETAIL

NO SCALE



NOTES:

1. CONTROL PANEL IS MOUNTED ON TANK SUPPORT STAND.

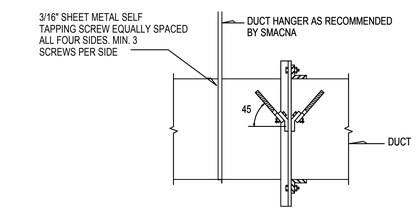
2. PUMP CAPACITY IS 1.3 GPM AT 100 PSIG, 1/3 HP.

3. ALL WIRING TO BE PROVIDED BY ELECTRICAL CONTRACTOR.

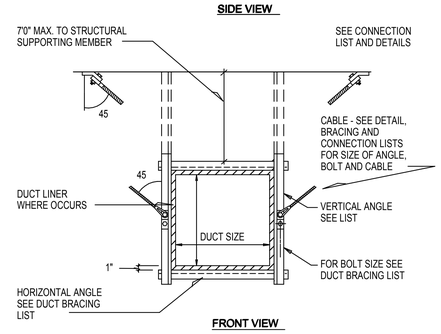
4. GLYCOL FEED SYSTEM INCLUDES 50 GAL CLEAR POLYETHYLENE TANK. STEEL SUPPORT STAND, PUMP, LOW LEVEL SWITCH, STRAINER, SHUT-OFF VALVE, CONTROL PANEL, SOLENOID VALVE AND PRESSURE SWITCH.

4 ME504 PACKAGED GLYCOL FEED SYSTEM

NO SCALE



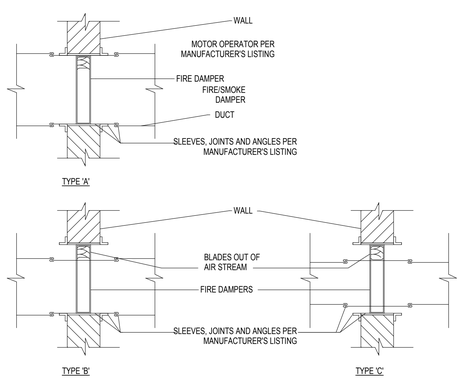
SIDE VIEW



FRONT VIEW

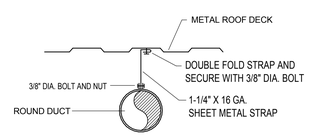
7 ME504 CABLE BRACING FOR RECTANGULAR DUCTS

NO SCALE



2 ME504 FIRE DAMPER DETAILS

NO SCALE



NOTE:
USE SPECIFIED SPACING AND NOT LESS THAN ONE SUPPORT PER BRANCH.

5 ME504 ROUND DUCT SUPPORT DETAIL

NO SCALE

LICENSED PROFESSIONAL ENGINEER No. 275661 RAYMOND D. VERNON STATE OF UTAH

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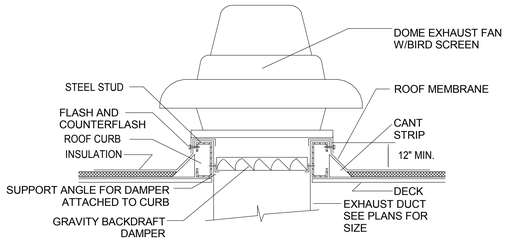
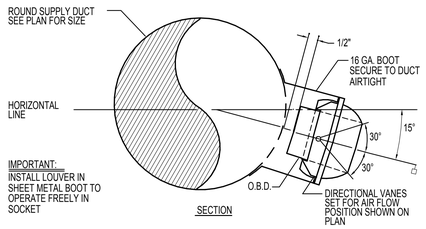


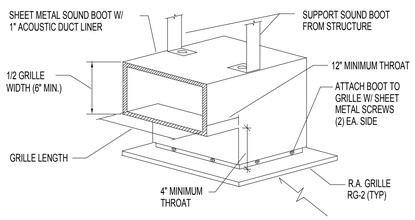
1 ME505 EXHAUST FAN DETAIL

NO SCALE



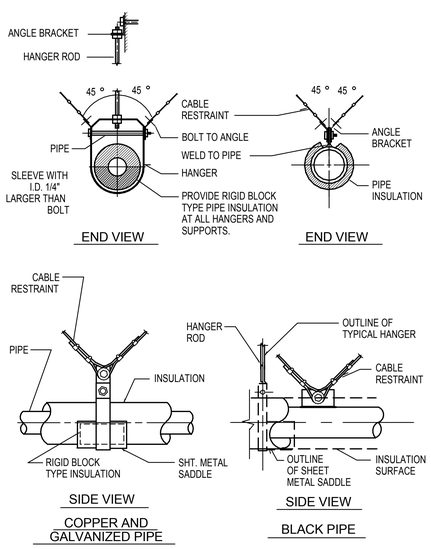
2 ME505 DRUM LOUVER DETAIL

NO SCALE



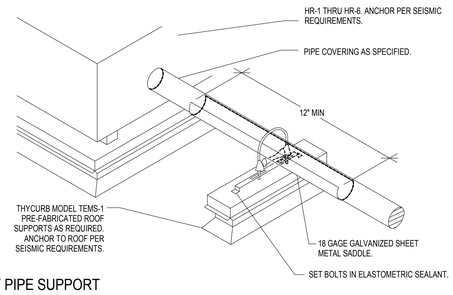
3 ME505 R.A. GRILLE WITH SOUND BOOT

NO SCALE



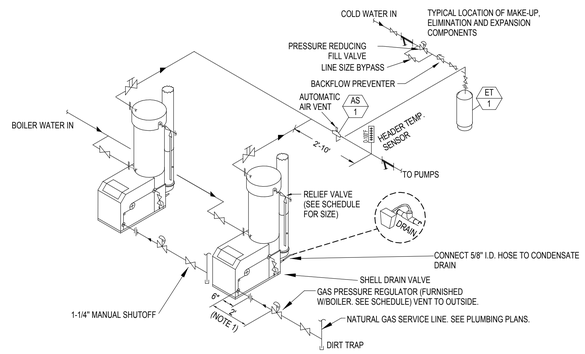
4 ME505 PIPING RESTRAINT DETAIL

NO SCALE



5 ME505 ROOF PIPE SUPPORT

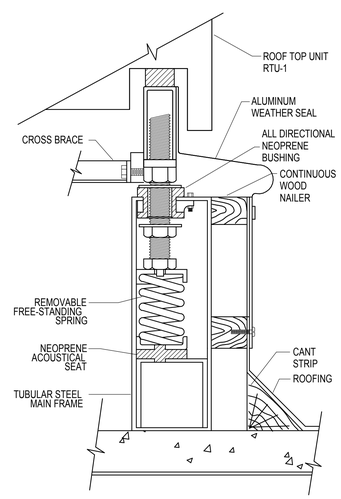
NO SCALE



NOTES:
1. LOCATE WATER INLET AND OUTLET FITTINGS (i.e. UNIONS, ELBOWS, ETC.) AND ALL PIPING A MINIMUM OF 6" FROM BOILER FITTINGS TO PREVENT INTERFERENCE WITH REMOVAL OF BOILER.

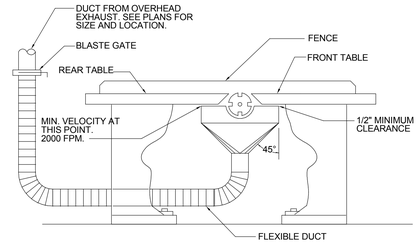
6 ME505 BOILER PIPING SCHEMATIC

NO SCALE



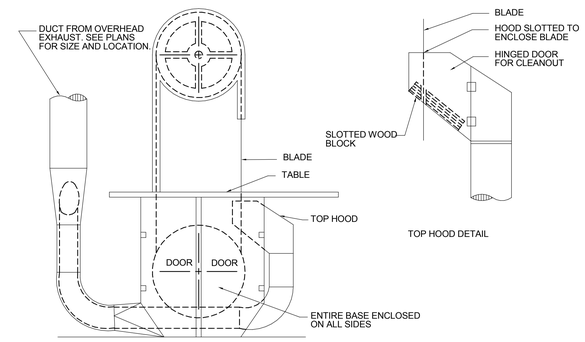
7 ME505 ROOF CURB DETAIL

NO SCALE



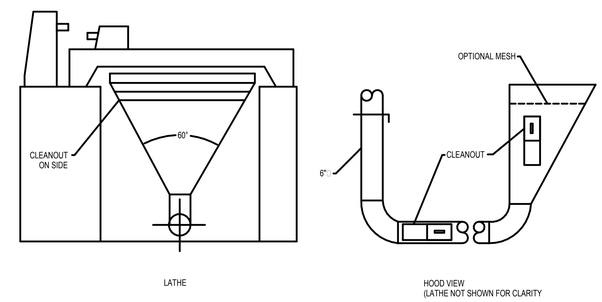
8 ME505 ROUTER DETAIL

NO SCALE



9 ME505 BAND SAW DETAIL

NO SCALE



10 ME505 LATHE DETAIL

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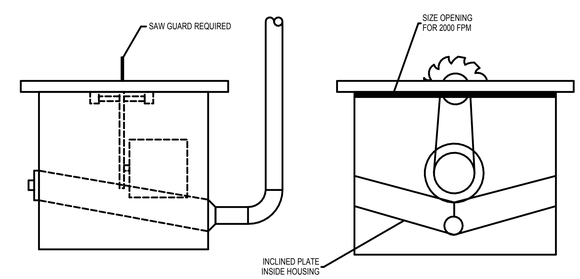

11 ME505 TABLE SAW DETAIL

NO SCALE

LICENSED PROFESSIONAL ENGINEER
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RAYMOND D. VERNON
STATE OF UTAH

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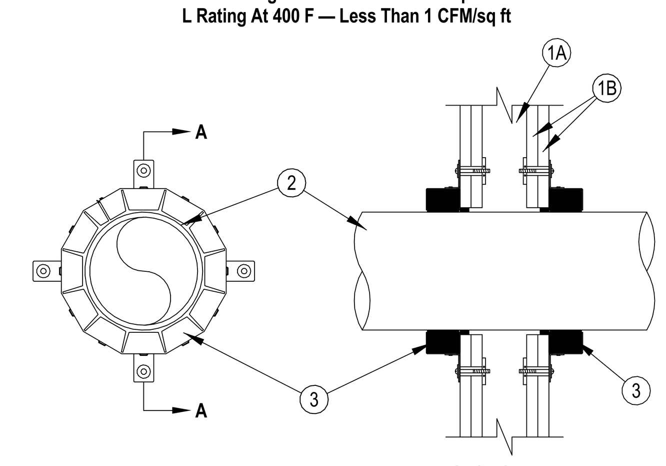
System No. W-L-2078

F Ratings — 1 and 2 Hr (See Item 1)
T Ratings — 0, 1 and 2 Hr (See Items 2 and 3)
L Rating At Ambient — 3 CFM/sq ft
L Rating At 400 F — Less Than 1 CFM/sq ft

WL 2078



1. Wall Assembly — The 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 construction features noted below:
   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 max 16 in. OC. Steel studs to be min 2-1/2 in. wide and spaced max 24 in. OC.
   B. Gypsum Board* — Nom 5/8 in. thick gypsum board, as specified in the individual Wall and Partition Design. Max diam of opening is 11-1/2 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 nonmetallic pipe, conduit or tubing to be installed within the firestop system. The annular space between pipe and periphery of opening shall be min 0 in. (point contact) to max 1/2 in. Pipe or conduit to be rigidly supported on both sides of the wall assembly. The following types and sizes of nonmetallic pipes may be used:
   A. Polyvinyl Chloride (PVC) Pipe — Nom 10 in. diam (or smaller) Schedule 40 solid-core or cellular core PVC pipe for use in closed (process or supply) or vented (drain, waste or vent) piping system.
   B. Chlorinated Polyvinyl Chloride (CPVC) Pipe — Nom 10 in. diam (or smaller) SDR13.5 CPVC pipe for use in closed (process or supply) piping systems.
   C. Acrylonitrile Butadiene Styrene (ABS) Pipe — Nom 6 in. diam (or smaller) Schedule 40 solid-core or cellular core ABS pipe for use in closed (process or supply) or vented (drain, waste or vent) piping systems
   D. Flame Retardant Polypropylene (FRPP) Pipe — Nom 6 in. diam (or smaller) Schedule 40 FRPP pipe for use in closed (process or supply) or vented (drain, waste or vent) piping system.
   E. Polyvinylidene Fluoride (PVDF) Pipe — Nom 4 in. diam (or smaller) PVDF pipe for use in closed (process or supply) or vented (drain, waste or vent) piping system.
   When max 6 in. diam pipe is used, T Rating is equal to the hourly fire rating of the wall. When nom 8 in. or 10 in. diam pipe is used, T Rating is 0 hr.
3. Firestop Device* — Firestop Collar — Firestop collar shall be installed in accordance with the accompanying installation instructions. Collar to be installed and latched around the pipe and secured to both sides of the wall using the anchor hooks provided with the collar. (Minimum two anchor hooks for 1-1/2 and 2 in. diam pipes, three anchor hooks for 3 and 4 in. diam pipes, four anchor hooks for 6 in. diam pipes, ten anchor hooks for 8 in. diam pipes and twelve anchor hooks for 10 in. diam pipes). The anchor hooks are to be secured to the surface of wall with 3/16 in. diam by 2-1/2 in. long steel toggle bolts along with washers. As an alternate for pipe sizes of nom 4 in. diam or less, min No. 10 by 1-1/2 in. long drywall or laminate screws with min 3/4 in. steel washers may be used. When the drywall or laminate screw is used, T Rating shall not exceed 1 hr.
   HILTI CONSTRUCTION CHEMICALS, DIV OF HILTI INC — CP 643 50/1.5"N, CP 643 63/2"N, CP 643 90/3"N, CP 643 110/4"N, CP 643 160/6"N, CP 644 200/8" andCP 644 250/10" Firestop Collars
4. Fill, Void or Cavity Material* — Sealant - (Not Shown) — Min 1/2 in. thickness of sealant applied within the annular space for nom 8 in. and 10 in. diam pipes, flush with each side of wall. Sealant in annular space is optional for max 6 in. diam pipes. A min 1/4 in. thickness of sealant is required within the annular space, flush with each side of wall, to attain the L Ratings for max 6 in. diam pipes.

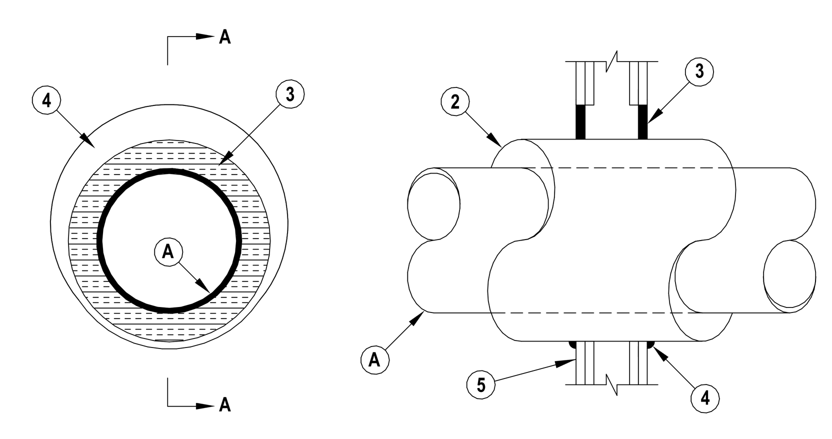
HILTI CONSTRUCTION CHEMICALS, DIV OF HILTI INC — FS-One Sealant
*Bearing the UL Classification Mark

HILTI® FIRESTOP SYSTEMS — Reproduced by HILTI, Inc. Courtesy of Underwriters Laboratories, Inc. November 29, 2005 — CLASSIFIED

System No. W-L-5029

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

WL 5029



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.

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

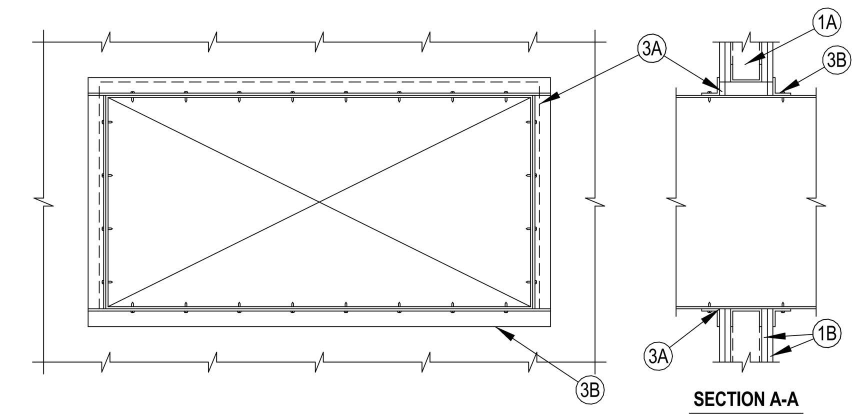
HILTI CONSTRUCTION CHEMICALS, DIV OF HILTI INC — FS-One Sealant
*Bearing the UL Classification Mark

HILTI® FIRESTOP SYSTEMS — Reproduced by HILTI, Inc. Courtesy of Underwriters Laboratories, Inc. November 13, 2001 — CLASSIFIED C US

System No. W-L-7040

F Ratings — 1 and 2 Hrs (See Items 1 and 3)
T Rating — 0 Hr

WL 7040



1. Wall Assembly — The fire-rated gypsum wallboard/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 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. Additional framing members shall be used to completely frame around opening.
   B. Gypsum Board* — Nom 5/8 in. thick with square or tapered edges. The gypsum wallboard type, number of layers and sheet orientation shall be as specified in the individual Wall and Partition Design Number. Max area of opening is 1300 in. with the dimension of 50 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. Steel Duct — Nom 24 in. by 48 in. (or smaller) No. 24 gauge (or heavier) galv steel duct to be installed within the firestop system. The annular space shall be min 0 (point contact) in. to a max 2 in. Duct to be rigidly supported on both sides of the wall assembly.
3. Firestop System — The firestop system shall consist of the following:
   A. Fill, Void or Cavity Material*—Sealant — Min 5/8 in. thickness of fill material applied within annulus flush with both surfaces of wall. At point contact location, a min 1/2 in. diam bead of fill material shall be applied to the wall/duct interface on both surfaces of wall.
   HILTI CONSTRUCTION CHEMICALS, DIV OF HILTI INC — FS-ONE Sealant, CP601S Elastomeric Firestop Sealant or CP606 Flexible Sealant.
   B. Steel Retaining Angle — No. 18 MSG (0.048 in.) galv steel angles cut to fit contour of duct with a 2 in. overlap on the duct and a min 1 in. overlap on the gypsum board assembly on both sufaces of wall. 2 in. leg of angle secured to duct with min No. 8 by 3/4 in. long sheet metal screws, spaced a max of 6 in. OC. When bead of fill material is used at joint contact locations, angles shall be installed prior to full material curing.

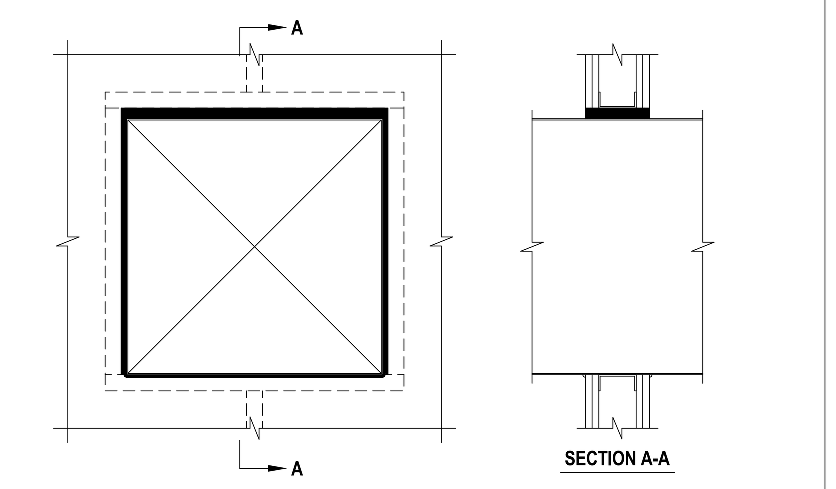
*Bearing the UL Classification Mark

HILTI® FIRESTOP SYSTEMS — Reproduced by HILTI, Inc. Courtesy of Underwriters Laboratories, Inc. November 13, 2001 — CLASSIFIED C US

System No. W-L-7143

F Ratings -- 1 and 2 Hr (See Items 1 and 2)
T Ratings -- 0 and 1/2 Hr (See Item 1)

WL 7143



1. Wall Assembly -- The 1 and 2 hr fire-rated gypsum board/stud wall assembly shall be constructed of the materials and in the manner specified in the individual U400 Series Wall and Partition Designs in the UL Fire Resistance Directory and shall include the following construction features:
   A. Studs -- Wall framing shall consist of min. 3-1/2 in. (89 mm) wide steel channel studs and spaced max 24 in. (610 mm) OC. Additional 3-1/2 in. (89 mm) wide steel studs shall be used to completely frame opening.
   B. Gypsum Board -- One or two layers of 5/8 in. (16 mm) thick gypsum board as specified in the individual Wall and Partition Design. Max size of opening is 625 sq in. (4032 cm2) with a max dimension of 25 in. (635 mm).
   The hourly F Rating of the firestop system is equal to the hourly fire rating of the wall assembly in which it is installed. The hourly T Rating of the firestop system is 1/2 hr for 2 hr fire rated walls and 0 hr for 1 hr fire rated walls.
2. Steel Duct -- Nom. 24 in. by 24 in. (610 by 610 mm) (or smaller) No. 24 gauge (or heavier) galv. steel duct to be installed within the firestop system. An annular space of min 1/2 in. (13 mm) to max 1 in. (25 mm) is required within the firestop system. As an option, for systems with a 2 hr F Rating only, the min annular space at the bottom of the duct may be 0 in. (point contact) for 2 hr rated assemblies only. Steel duct to be rigidly supported on both sides of wall assembly
3. Firestop System -- The firestop system shall consist of the following:
   A. Packing Material -- Min 3-3/4 in. (95 mm) or 5 in. (127 mm) thickness of min 4 pcf (64 kg/m3) mineral wool batt insulation firmly packed into opening as a permanent form for 1 and 2 hr rated assemblies, respectively. Packing material to be recessed from both surfaces of wall to accommodate the required thickness of fill material.
   B. Fill Void or Cavity Materials* - Sealant -- Min 1/2 in. (13 mm) thickness of sealant applied within annulus, flush with both surfaces of wall assembly. Min 1/4 in. (6 mm) diam bead of sealant shall be applied at the duct/gypsum board interface at any point contact location, on both surfaces of wall assembly.
   HILTI CONSTRUCTION CHEMICALS, DIV OF HILTI INC -- CP 606 Sealant

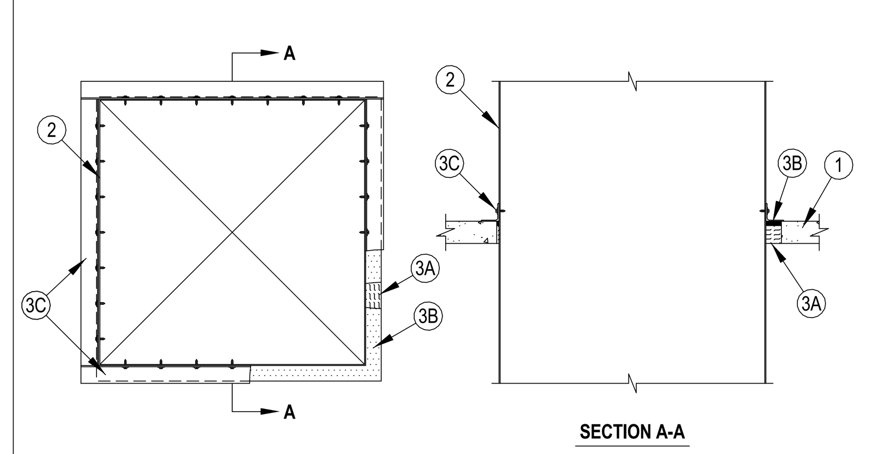
*Bearing the UL Classification Mark

HILTI® FIRESTOP SYSTEMS — Reproduced by HILTI, Inc. Courtesy of Underwriters Laboratories, Inc. November 29, 2005 — CLASSIFIED C US

System No. C-AJ-7111

F Rating -- 2 Hr
T Rating -- 0 Hr

CAJ 7111



1. Floor or Wall Assembly -- Min 2-1/2 in. (64 mm) thick reinforced lightweight or normal weight (100-150 pcf or 1600-2400 kg/m3) concrete floor or min 3 in. (76 mm) thick reinforced lightweight or normal weight (100-150 pcf or 1600-2400 kg/m3) concrete wall. Wall may also be constructed of any UL Classified Concrete Blocks*. Max area of opening is 7.1 sq ft (0.66 m2) with max dimension of 32 in. (813 mm).
   See Concrete Blocks (CAZT) category in the Fire Resistance Directory for names of manufacturers.
2. Steel Duct -- Max 30 by 30 in. (762 by 762 mm) No. 24 gauge (or heavier) steel duct. One duct to be installed within the firestop system with a min 1/4 in. (6 mm) to max 1-3/4 in. (44 mm) annular space. Steel duct to be rigidly supported on both sides of floor or wall assembly.
3. Firestop System -- The firestop system shall consist of the following:
   A. Packing Material -- Min 2 in. (51 mm) thickness of min 4 pcf (64 kg/m3) 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 1/2 in. (13 mm) thickness of fill material applied within the annulus, flush with top surface of floor or with both surfaces of wall.
   HILTI CONSTRUCTION CHEMICALS, DIV OF HILTI INC -- FS-One Sealant
   C. Steel Angle -- Min 2 in. (51 mm) wide by 2 in. (51 mm) high No. 16 gauge (or heavier) steel angle cut to fit the contour of the duct with a min 1/4 in. (6 mm) lap on the top surface of floor or on both surfaces of wall on all sides of the opening. Legs of angles secured to duct with No. 8 by 3/4 in. (19 mm) long steel sheet metal screws spaced max 4 in. (102 mm) OC.

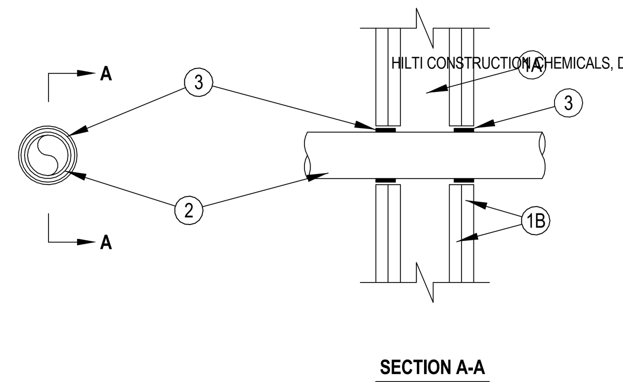
*Bearing the UL Classification Mark

HILTI® FIRESTOP SYSTEMS — Reproduced by HILTI, Inc. Courtesy of Underwriters Laboratories, Inc. September 09, 2005 — CLASSIFIED C US

System No. W-L-2235

F Rating - 1 AND 2 Hr (SEE ITEM 1)
T Rating - 0 Hr

WL2235



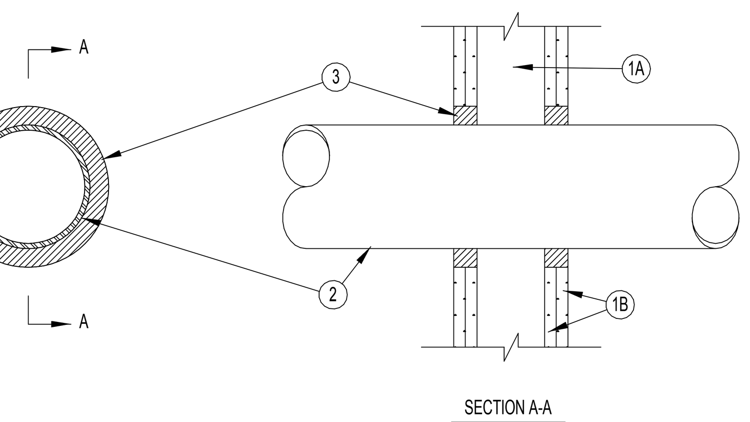
1. Wall Assembly -- The 1 or 2 hr fire-rated gypsum wallboard/stud wall assembly shall be constructed of the materials and in the manner specified in the individual U300 or U400 Series Wall and Partition Designs in the UL Fire Resistance Directory and shall include the following construction features:
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* -- Min 5/8 in. thick, 4 ft wide with square on tapered edges. The gypsum wallboard type, thickness, number of layers and orientation shall be as specified in the individual Wall and Partition Design. Max diam of opening is 3 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 nonmetallic pipe or tube to be centered within the firestop system with a nom 5/16 in. annular space. Pipe or tube to be rigidly supported on both sides of wall assembly. The following types and sizes of pipes may be used:
A. Polyvinyl Chloride (PVC) Pipe -- Nom 2 in. 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.
B. Acrylonitrile Butadiene Styrene (ABS) Pipe -- Nom 2 in. diam (or smaller) Schedule 40 cellular or solid core ABS pipe for use in closed (process or supply) or vented (drain, waste or vent) piping systems.
C. Chlorinated Polyvinyl Chloride (CPVC) Pipe -- Nom 2 in. diam (or smaller) SDR 13.5 CPVC pipe for use in closed (process or supply) piping systems.
D. Crosslinked Polyethylene (PEX) Tubing -- Nom 1 in. diam (or smaller) SDR 9 PEX tube for use in closed (process or supply) piping systems.
E. Flame Retardent Polypropylene (FRPP) Pipe -- Nom 2 in. diam (or smaller) Schedule 40 FRPP pipe for use in closed (process or supply) or vented (drain, waste or vent) piping systems.
3. Fill, Void or Cavity Material* -- Wrap Strip -- Nom 3/16 in. thick by 1 in. wide intumescent wrap strip. The wrap strip is continuously wrapped around the outer circumference of the pipe once and slid into annular space such that the ends are flush with the surface of the wall. Wrap strips are installed on each surface of the wall.
HILTI CONSTRUCTION CHEMICALS, DIV OF
HILTI INC -- CP648-E W25/1" Wrap Strip
A. Fill, Void or Cavity Material* - Wrap Strip -- (As an alternate to the wrap strip in Item 3 on nom 1-1/2" and 2" diam pipes only) - Nom 3/16 in. thick by 1-1/2 or 2 in. wide intumescent wrap strip. One layer of intumescent wrap strip is tightly wrapped around the pipe with ends butted and held in place with integrated tape. Wrap strip slid into annular space such that the ends are flush with the surface of the wall. Wrap strips are installed on each surface of the wall.
HILTI CONSTRUCTION CHEMICALS, DIV OF
HILTI INC -- CP648-S-1.5" US, CP648-S-2" US
*Bearing the UL Classification Mark

HILTI® FIRESTOP SYSTEMS — Reproduced by HILTI, Inc. Courtesy of Underwriters Laboratories, Inc. APRIL 22, 2005 — CLASSIFIED C US

System No. W-L-1054

F Ratings - 1 and 2 Hr (See Items 1 and 3)
T Rating - 0 Hr
L Rating At Ambient - Less Than 1 CFM/Sq Ft
L Rating At 400 F - 4 CFM/Sq Ft

WL 1054



1. Wall Assembly The 1 or 2 hr fire-rated gypsum wallboard/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. When steel studs are used and the diam of opening exceeds the width of stud cavity, the opening shall be framed on all sides using lengths of steel stud installed between the vertical studs and screw-attached to the steel studs at each end. The framed opening in the wall shall be 4 to 6 in. wider and 4 to 6 in. higher than the diam of the penetrating item such that, when the penetrating item is installed in the opening, a 2 to 3 in. clearance is present between the penetrating item and the framing on all four sides.
   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 U300 or U400 Series Design in the UL Fire Resistance Directory. Max diam of opening is 32-1/4 in. for steel stud walls. Max diam of opening is 14-1/2 in. for wood stud walls.
   The F Rating of the firestop system is equal to the fire rating of the wall assembly.
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. to max 2-1/4 in. Pipe may be installed with continuous point contact. Pipe, conduit or tubing may be installed at an angle not greater than 45 degrees from perpendicular. 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 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. 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 5/8 in. thickness of fill material applied within the annulus, flush with both surfaces of wall. At the point or continuous contact locations between pipe and wall, a min 1/2 in. diam bead of fill material shall be applied at the pipe wall interface on both surfaces of wall .
   HILTI CONSTRUCTION CHEMICALS, DIV OF HILTI INC -- FS-One Sealant

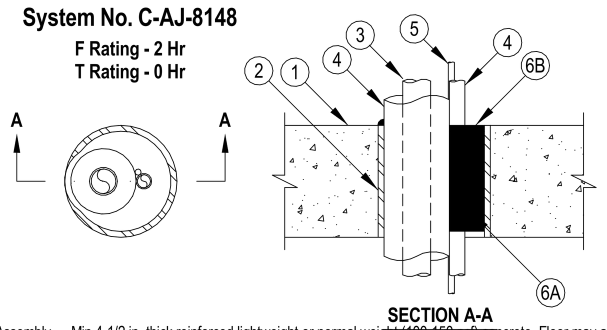
*Bearing the UL Classification Mark

HILTI® FIRESTOP SYSTEMS — Reproduced by HILTI, Inc. Courtesy of Underwriters Laboratories, Inc. December 4, 2002 — CLASSIFIED C UL US

System No. C-AJ-8148

F Rating - 2 Hr
T Rating - 0 Hr

CAJ 8148



1. Floor or Wall Assembly — Min 4-1/2 in. thick reinforced lightweight or normal weight (100-150 pcf) concrete. Floor may also be constructed of any min 6 in. (152 mm) thick UL Classified hollow-core Precast Concrete Units*. Wall may also be constructed of any UL Classified Concrete Blocks*. Max diam of opening is 4 in.
   See Concrete Blocks (CAZT) and Precast Concrete Units (CFTV) categories in the Fire Resistance Directory for names of manufacturers.
2. Metallic Sleeve — (Optional) — Nom 4 in. diam (or smaller) Schedule 10 (or heavier) steel sleeve cast or grouted into floor or wall assembly, flush with floor or wall surfaces.
3. Through-Penetrants — A max of two pipes, conduits or tubing to be installed within the opening. Of the two pipes, conduits or tubing, only one of the pipes, conduit or tubing shall have a nom diam greater than 1/2 in. The annular space between pipes, conduits or tubing and the periphery of the opening shall be min 1/4 in. to max 1-1/2 in. The annular space between metallic penetrating items and the other penetrants shall be min 0 in. (point contact) to max 1-1/2 in. Pipes, conduits or tubing to be rigidly supported on both sides of floor or wall assembly. The following types and sizes of metallic pipes, conduits or tubing may be used:
   A. Steel Pipe — Nom 1 in. diam (or smaller) Schedule 10 (or heavier) steel pipe.
   B. Iron Pipe — Nom 1 in. diam (or smaller) cast or ductile iron pipe.
   C. Conduit — Nom 1 in. diam (or smaller) steel electrical metallic tubing or nom 1 in. diam (or smaller) steel conduit.
   D. Copper Tubing — Nom 1 in. diam (or smaller) Type L (or heavier) copper tubing.
   E. Copper Pipe — Nom 1 in. diam (or smaller) Regular (or heavier) copper pipe.
4. Tube Insulation — Plastics+ — Nom 3/4 in. thick acrylonitrile butadiene/polyvinyl chloride (AB/PVC) flexible foam furnished in the form of tubing. The tube insulation may be installed on a max of one pipe or tubing. The annular space between insulated penetrating item and periphery of opening shall be min 0 in. (point contact) to max 1-1/2 in. The annular space between insulated penetrating item and the other penetrants shall be a min 0 in. (point contact) to a max 1 in.
   See Plastics+ (QMFZ2) category in the 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.
5. Cables — Max one, 4 pair No. 18 AWG (or smaller) thermostat cable with polyvinyl chloride (PVC) insulation and jacket materials. Cable to be spaced a min 0 in. (point contact) to max 1-1/2 in. from the other penetrants. The annular space between the cable and the periphery of the opening shall be a min 1/2 in. to max 1 in. Cable to be rigidly supported on both sides of wall assembly.
6. 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 forced into interstices of through penetrants to max extent possible. Packing material to be recessed from top surface of concrete floor or from both surfaces of wall to accommodate the required thickness of fill material. When the floor is constructed of hollow-core precast concrete units, packing material shall be installed flush with bottom surface of floor and recessed from top surface of floor 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 concrete floor or with both surfaces of wall assembly. Fill material to be forced into interstices of through penetrants to max extent possible.
   HILTI CONSTRUCTION CHEMICALS, DIV OF HILTI INC — FS-ONE Sealant

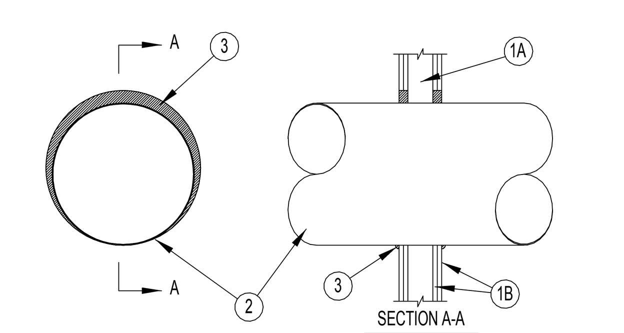
+Bearing the UL Recognized Component Mark
*Bearing the UL Classification Mark

HILTI® FIRESTOP SYSTEMS — Reproduced by HILTI, Inc. Courtesy of Underwriters Laboratories, Inc. February 11, 2006 — CLASSIFIED C US

System No. W-L-7042

F Ratings - 1 and 2 Hr (See Items 1 and 3)
T Rating - 0 Hr

WL 7042



1. Wall Assembly The 1 or 2 hr fire rated wallboard/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 24 in. OC.
   B. Gypsum Board* For 1 hr assembly, one layer of min 5/8 in. thick wallboard as required in the individual Wall and Partition Design. For 2 hr assembly, two layers of min 5/8 in. thick wallboard as required in the individual Wall and Partition Design. Max diam of opening is 14-1/2 in. for wood stud walls and 21-3/4 for steel stud walls.
   The hourly F and T Ratings of the firestop system is equal to the hourly fire rating of the wall assembly in which it is installed.
2. Through Penetrant Galv steel duct to be installed concentrically or eccentrically within the firestop system. The annular space between the duct and periphery of opening shall be 0 in. (point contact) and max 1-1/2 in. Duct to be rigidly supported on both sides of wall assembly.
   A. Spiral Wound HVAC Duct Nom 20 in. diam (or smaller) No. 24 MSG (or heavier) galv steel spiral wound duct.
   B. Sheet Metal Duct Nom 12 in. diam (or smaller) No. 28 MSG (or heavier) galv sheet steel duct.
3. Fill, Void or Cavity Material*--Sealant Min 5/8 in. and 1-1/4 in. thickness of fill material applied within annulus, flush with both surfaces of wall assembly for 1 or 2 hr rated walls, respectively. At the point contact location between duct and wallboard, a min 1/2 in. diam bead of sealant shall be applied at the wallboard/duct interface on both surfaces of wall assembly.
   HILTI CONSTRUCTION CHEMICALS, DIV OF
   HILTI INC - CP601S Elastomeric Firestop Sealant, FS-ONE Sealant or CP606 Flexible Firestop Sealant

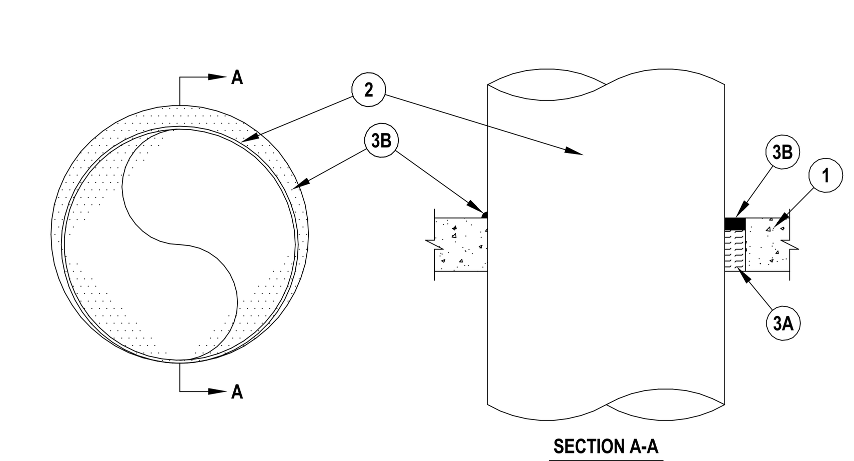
*Bearing the UL Classification Mark

HILTI® FIRESTOP SYSTEMS — Reproduced by HILTI, Inc. Courtesy of Underwriters Laboratories, Inc. November 30, 2000 — CLASSIFIED C UL US

System No. C-AJ-7084

F Rating - 2 Hr
T Rating - 0 Hr

CAJ 7084



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 21-3/4 in.
   See Concrete Blocks (CAZT) category in the Fire Resistance Directory for names of manufacturers.
2. Through Penetrant - Galv steel duct to be installed concentrically or eccentrically within the firestop system. The annular space between the duct and periphery of opening shall be 0 in. (point contact) and max 1-1/2 in. Duct to be rigidly supported on both sides of wall assembly.
   A. Spiral Wound HVAC Duct - Nom 20 in. diam (or smaller) No. 24 MSG (or heavier) galv steel spiral wound duct.
   B. Sheet Metal Duct - Nom 12 in. diam (or smaller) No. 28 MSG (or heavier) galv sheet steel duct.
3. Firestop System - The firestop system shall consist of the following:
   A. Packing Material - Min 3-1/2 in. thickness of min 4.0 pcf mineral wool batt insulation firmly packed into 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 in. thickness of fill material applied within annulus, flush with top surface of floor or both surfaces of wall assembly. At the point contact location between duct and periphery of opening, a min 1/2 in. diam bead of sealant shall be applied at the concrete/duct interface.
   HILTI CONSTRUCTION CHEMICALS, DIV OF
   HILTI INC - FS-ONE Sealant, CP601S Elastomeric Firestop Sealant, CP606 Flexible Firestop Sealant or CP 604 Self-Leveling Firestop Sealant.
   (Note: CP 604 Self-Leveling Firestop Sealant to be used on floor assemblies only.)

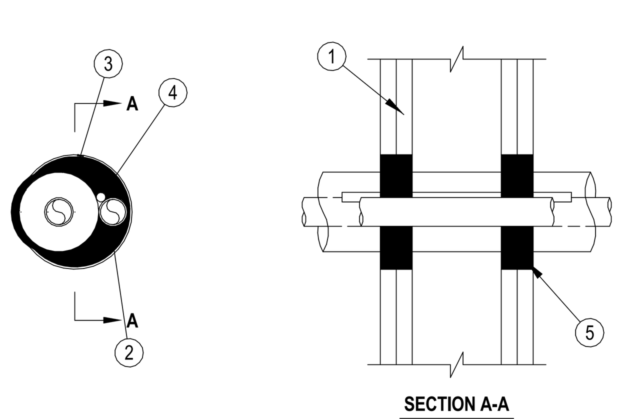
*Bearing the UL Classification Mark

HILTI® FIRESTOP SYSTEMS — Reproduced by HILTI, Inc. Courtesy of Underwriters Laboratories, Inc. July 08, 2003 — CLASSIFIED C US

System No. W-L-8047

F Rating -- 2 Hr
T Rating -- 1/4 Hr

WL 8047



1. Wall Assembly -- The 2 hr fire-rated gypsum board/stud wall assembly shall be constructed of the materials and in the manner described in the individual U300 or U400 Series Wall or Partition Design in the UL Fire Resistance Directory and shall include the following construction features:
   A. Studs -- Wall framing shall consist of either wood studs or steel channel studs. Wood studs to consist of nom 2 by 4 in. lumber spaced max 16 in. OC. Steel studs to be min 3-1/2 in. wide and spaced max 24 in. OC.
   B. Gypsum Board* -- The gypsum board type, thickness number of layers, fastener type and sheet orientation shall be specified in the individual Wall and Partition Design in the UL Fire Resistance Directory. Max diam of opening is 4-1/2 in.
2. Through Penetrants -- One or more pipe or tubing to be installed concentrically or eccentrically within the opening. The space between any penetrant and the periphery of the opening shall be min 0 in. (point contact) to max 1-1/4 in. Pipes 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. Copper Tube -- Nom 1 in. diam (or smaller) Type L (or heavier) copper tube.
   B. Copper Pipe -- Nom 1 in. diam (or smaller) Regular (or heavier) copper pipe.
3. Tube Insulation - Plastics+ -- Nom 3/4 in. thick acrylonitrile butadiene/polyvinyl chloride (AB/PVC) flexible foam furnished in the form of tubing. Tube insulation to be installed on one or more of the metallic pipes or tubes.
   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. Cables -- Max of one 4 pair No. 18 AWG (or smaller) cable with PVC insulation and jacket materials.
5. Fill, Void or Cavity Material - Sealant* -- Min 1-1/4 in. thickness of fill material applied within annulus between penetrants and gypsum board, flush with both surfaces of wall. At point contact, a 1/4 in. bead of fill material shall be applied at the penetrant/gypsum board interface on both sides of wall.
   HILTI CONSTRUCTION CHEMCIALS, DIV OF HILTI INC -- FS-ONE Sealant

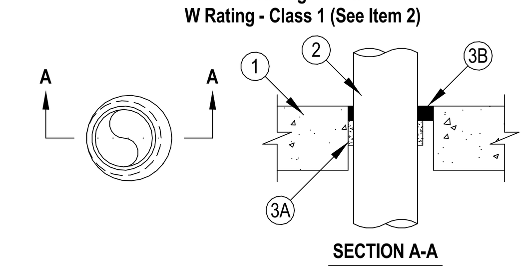
*Bearing the UL Classification Mark

HILTI® FIRESTOP SYSTEMS — Reproduced by HILTI, Inc. Courtesy of Underwriters Laboratories, Inc. July 06, 2005 — CLASSIFIED C US

System No. C-AJ-2565

F Rating — 2 Hr
T Rating — 0 Hr
W Rating - Class 1 (See Item 2)

CAJ 2565



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/m3) concrete floor or wall. 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. Through Penetrants — One nonmetallic pipe to be installed concentrically or eccentrically within the firestop system. Annular space within the firestop system is dependent upon the max diam and type of penetrant used as tabulated in Item 3A. Pipe to be rigidly supported on both sides of floor or wall assembly. The following types and sizes of nonmetallic pipes may be used:
   A. Polyvinyl Chloride (PVC) Pipe — Nom 4 in. (102 mm) diam (or smaller) Schedule 40 solid or cellular core PVC for use in closed (process or supply) or vented (drain, waste or vent) piping systems.
   B. Chlorinated Polyvinyl Chloride (CPVC) Pipe — Nom 4 in. (102 mm) diam (or smaller) SDR13.5 CPVC for use in closed (process or supply) piping systems.
   C. Rigid Nonmetallic Conduit+ — Nom 4 in. (102 mm) diam (or smaller) Schedule 40 PVC conduit installed in accordance with Article 347 of the National Electrical Code (NFPA 70).
   D. Acrylonitrile Butadiene Styrene (ABS) Pipe — Nom 4 in. (102 mm) diam (or smaller) Schedule 40 solid or cellular core ABS for use in closed (process or supply) or vented (drain, waste or vent) piping systems.
   E. Flame Retardant Polypropylene (FRPP) Pipe — Nom 4 in. (102 mm) diam (or smaller) Schedule 40 FRPP pipe for use in closed (process or supply) or vented (drain, waste or vent) piping system.
   W Rating applies to nom 1-1/2 in. diam penetrants only.
3. Firestop System — The firestop system shall consist of the following:
   A. Fill, Void or Cavity Material* - Wrap Strip — One layer of intumescent wrap strip is continuously wrapped around the pipe with ends butted and held in place with integrated tape. Wrap strip installed recessed from top surface of floor or both wall surfaces to accommodate fill material. Size of wrap strip for a given size penetrant is shown in the table below.
   HILTI CONSTRUCTION CHEMICALS, DIV OF HILTI INC — CP648-S-1.5" US, CP648-S-2" US, CP648-S-3" US or CP648-S-4" US Wrap Strip

Product Designation	Pipe Size Diam in. (mm)	Max Opening in. (mm)	Annular Space Min in. (mm)	Annular Space Max in. (mm)	Nom Wrap Strip Length in. (mm)	Nom Wrap Strip Thick in. (mm)	Nom Wrap Strip Width in. (mm)
CP648-S-1.5" US	1-1/2 (38)	3 (76)	3/16 (5)	3/4 (19)	6.5 (165)	0.18 (5)	1 (25)
CP648-S-2" US	2 (51)	3-1/2 (89)	3/16 (5)	15/16 (24)	8 (203)	0.18 (5)	1 (25)
CP648-S-3" US	3 (76)	4 (102)	3/16 (5)	15/16 (24)	11.5 (292)	0.18 (5)	1-3/4 (44)
CP648-S-4" US	4 (102)	6 (152)	3/8 (5)	1-1/8 (28)	15.1 (384)	0.36 (9)	1-3/4 (44)

   B. Fill, Void or Cavity Material* - Foam — Min 1 in. (25 mm) thickness of fill material applied within the annulus, flush with top surface of floor or with both surfaces of wall.
   HILTI
   CONSTRUCTION CHEMICALS, DIV OF HILTI INC — CP620 Fire Foam

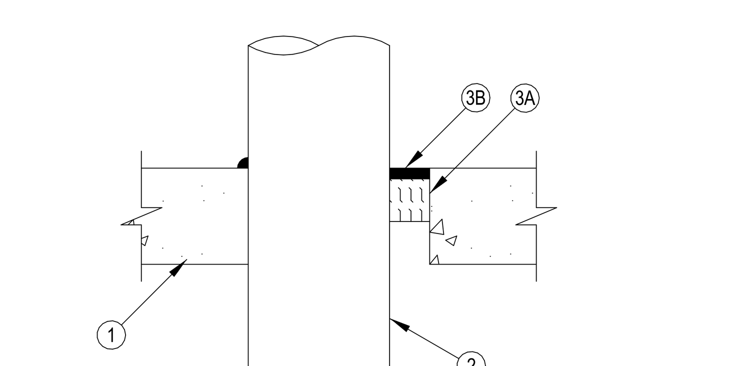
*Bearing the UL Classification Mark

HILTI® FIRESTOP SYSTEMS — Reproduced by HILTI, Inc. Courtesy of Underwriters Laboratories, Inc. January 30, 2006 — CLASSIFIED

System No. C-AJ-1435

F Rating - 2 Hr
T Rating - 0 Hr

CAJ 1435



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 diameter of opening is 31-7/8 in.
   See Concrete Blocks (CAZT) category in the Fire Resistance Directory for names of manufacturers.
2. Through Penetrants — One metallic pipe, conduit or tubing to be installed concentrically or eccentrically within the firestop system. Pipe, conduit or tubing to be rigidly supported on both sides of floor assembly. The annular space between pipe conduit or tubing and the periphery of the opening shall be min 0 in. (point contact) to max 1-7/8 in. The following types of pipe, conduit or tubing may be used:
   Steel Pipe — Nom 30 in. diam (or smaller) Schedule 10 (or heavier) steel pipe.
   Iron Pipe — Nom 30 in, diam (or smaller) cast or ductile iron pipe.
   Conduit — Nom 6 in. diam (or smaller) rigid steel conduit.
   Conduit — Nom 4 in. diam (or smaller) steel electrical metallic conduit.
   Copper Tubing — Nom 6 in. diam (or smaller) Type L (or heavier) copper tubing.
   Copper Pipe — Nom 6 in. diam (or smaller) Regular (or heavier) copper pipe.
3. Firestop System — The firestop system shall consist of the following:
   A. Packing Material — Min 2 in. (51mm) thickness of min 4 pcf (64 kg/m3) 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 to accommodate the required thickness of fill material.
   B. Fill Void or Cavity Material* - Sealant — Min 1/2 in. (13mm) thickness of fill material applied within the annulus, flush with top surface of floor or with both surfaces of wall. At the point contact location between pipe and concrete, a min 1/2 in. (13mm) diam bead of fill material shall be applied at the concrete/pipe interface on the top surface of floor or both surfaces of wall.
   HILTI CONSTRUCTION CHEMICALS, DIV OF HILTI INC — CP 606 Sealant

*Bearing the UL Classification Mark

HILTI® FIRESTOP SYSTEMS — Reproduced by HILTI, Inc. Courtesy of Underwriters Laboratories, Inc. February 08, 2008 — CLASSIFIED C US

1 THRU PENETRATION DETAILS
SCALE: 12" = 1'-0"

LICENSED PROFESSIONAL ENGINEER
No. 275661
RAYMOD D. VERNON
STATE OF UTAH

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project:
TOOELE APPLIED TECHNOLOGY COLLEGE - NEW BUILDING

88 South Tooele Blvd
Tooele, UT 84074

project#: 11.0420
date: 1/20/11

revisions :

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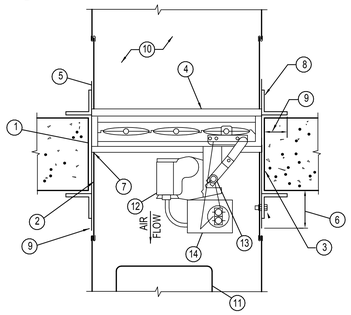
MECHANICAL DETAILS

sheet:

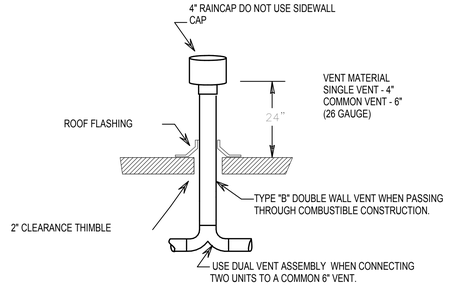
ME506

100% Construction Documents

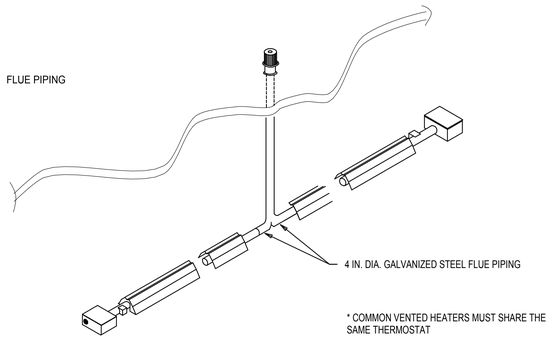
1. MASONRY OPENING AS SHOWN. FOR NON-MASOARY FLOORS, OPENING PREPARED WITH DOUBLE JOIST AND HEADERS.
2. INTERIOR OF OPENING LINED WITH U.L. LISTED MATERIAL HAVING SAME FIRE RESISTIVE RATING AS FLOOR.
3. CLEARANCE FOR THERMAL EXPANSION 1/8 INCH PER FOOT OF DUCT DIMENSION, MAX. 1/2 INCH., HALF FOR EACH SIDE.
4. COMBINATION FIRE/SMOKE DAMPER - U.L. OR SMACNA LABEL. FOR HORIZONTAL INSTALLATION.
5. STEEL SLEEVE, MINIMUM 14 GAGE.
6. STEEL SLEEVE TO EXTEND A MINIMUM OF 3 INCHES BEYOND FLOOR LINE.
7. BOLT OR WELD DAMPER TO SLEEVE. MINIMUM 1/4 INCH BOLTS OR 1/2 INCH WELDS 12 INCHES O.C.. BEGIN 2 INCHES FROM CORNERS.
8. MOUNTING ANGLES MINIMUM 1 1/2"x1 1/2"x20 GA.
9. REGARDLESS OF DUCT SIZE, MIN. OVERLAP OF PREPARED OPENING FRAMEWORK BY RETAINING ANGLES SHALL BE 1 INCH.
10. DUCT
11. ACCESS DOOR
12. DAMPER ACTUATOR
13. AUXILIARY OPERATING JACK SHAFT.
14. FIRE-STAT

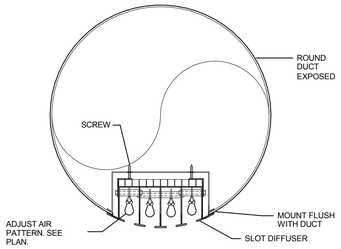


1 / ME507 FLOOR MOUNTED FIRE/SMOKE DAMPER DETAIL
NO SCALE

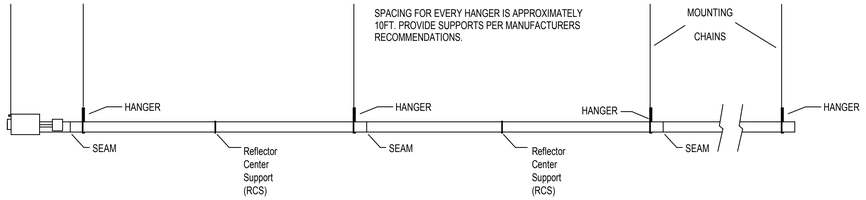


ROOF VENT DETAIL
(NOT TO SCALE)

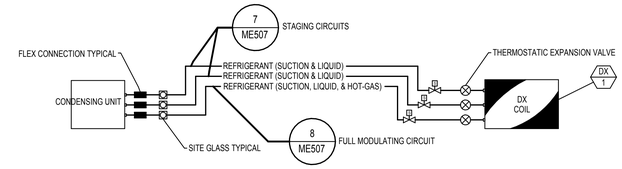




2 / ME507 EXPOSED DUCT MOUNTED REGISTER DETAIL
NO SCALE

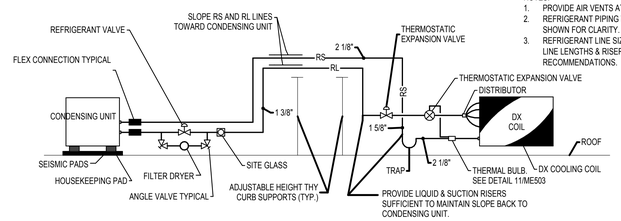


4 / ME507 RADIANT TUBE HEATER DETAIL
NO SCALE



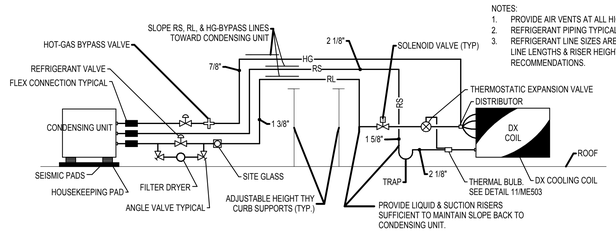
NOTES:
1. CONDENSING UNIT EQUIPPED WITH QTY(3) REFRIGERANT LINE CIRCUITS. FIRST STAGE IS EQUIPPED WITH HOT-GAS BYPASS.
2. COOLING COIL EQUIPPED WITH QTY(3) INTERLACED REFRIGERANT CIRCUITS.

6 / ME507 DX COOLING COIL SCHEMATIC
NO SCALE



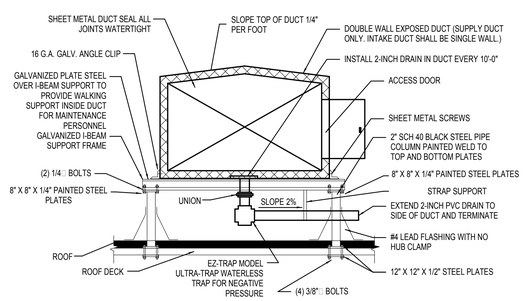
NOTES:
1. PROVIDE AIR VENTS AT ALL HIGH POINTS OF PIPING.
2. REFRIGERANT PIPING TYPICAL OF QTY(2) CIRCUITS. QTY(1) SHOWN FOR CLARITY.
3. REFRIGERANT LINE SIZES ARE APPROXIMATE. FIELD MEASURE LINE LENGTHS & RISER HEIGHTS. SIZE PER MANUFACTURER'S RECOMMENDATIONS.

8 / ME507 REFRIGERANT PIPING SCHEMATIC (STAGING CIRCUIT) TYP. OF 2
NO SCALE

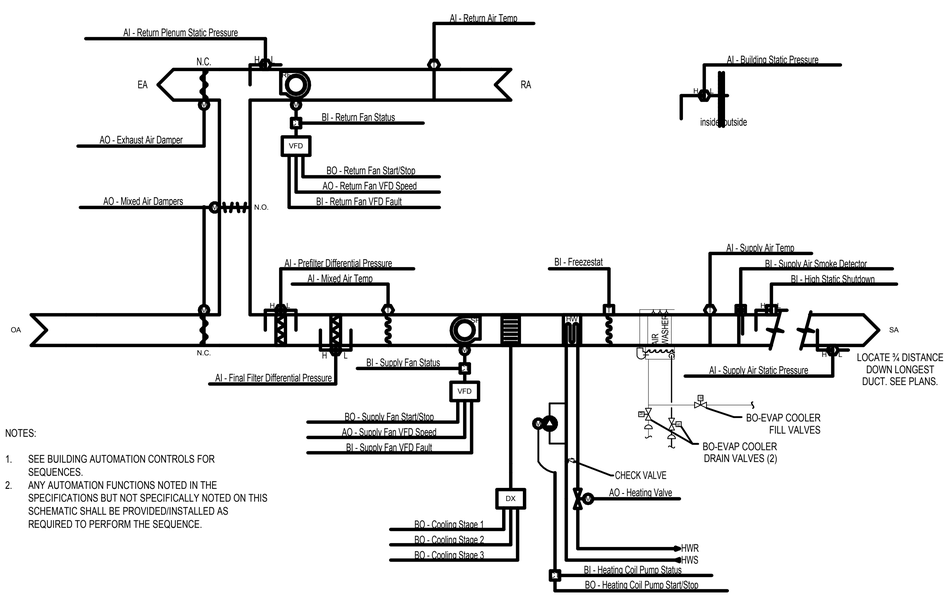


NOTES:
1. PROVIDE AIR VENTS AT ALL HIGH POINTS OF PIPING.
2. REFRIGERANT PIPING TYPICAL OF QTY(2) CIRCUITS.
3. REFRIGERANT LINE SIZES ARE APPROXIMATE. FIELD MEASURE LINE LENGTHS & RISER HEIGHTS. SIZE PER MANUFACTURER'S RECOMMENDATIONS.

8 / ME507 REFRIGERANT PIPING SCHEMATIC (FULLY MODULATING CIRCUIT) TYP. OF 1
NO SCALE



3 / ME507 DUCT ABOVE ROOF DETAIL
NO SCALE



NOTES:
1. SEE BUILDING AUTOMATION CONTROLS FOR SEQUENCES.
2. ANY AUTOMATION FUNCTIONS NOTED IN THE SPECIFICATIONS BUT NOT SPECIFICALLY NOTED ON THIS SCHEMATIC SHALL BE PROVIDED/INSTALLED AS REQUIRED TO PERFORM THE SEQUENCE.

5 / ME507 AIR HANDLER CONTROLS SCHEMATIC
NO SCALE

LICENSED PROFESSIONAL ENGINEER No. 275661 RAYMOND D. VERNON STATE OF UTAH

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ME507

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VARIABLE REFRIGERANT VOLUME (VRV) BRANCH SELECTOR SCHEDULE

ID	MANUFACTURER AND MODEL NUMBER	LOCATION	INDOOR UNITS SERVED	NOMINAL CAPACITY (TONS)	ELECTRICAL VOLT/PH/HZ	ELECTRICAL MCA (AMPS)	ELECTRICAL MAXIMUM FUSE AMPS (AMPS)	PHYSICAL LENGTH/ WIDTH/ HEIGHT (IN)	PHYSICAL WEIGHT (LBS)	NOTES
BS-1	DAIKIN BSVQ96PVJU	CAFETERIA B111	VRV-1A,1B,2A,2B	8	230/1/60	0.1	15	13x15x8	33	
BS-2	DAIKIN BSV6Q36PVJU	CORRIDOR B120A	VRV-3,4,5,6,7,8	3	230/1/60	0.6	15	25x62x8	196	
BS-3	DAIKIN BSV6Q36PVJU	CORRIDOR B120A	VRV-9,10,11,12,13,14	3	230/1/60	0.6	15	25x62x8	196	
BS-4	DAIKIN BSVQ60PVJU	RECEPTION/WAITING B223	VRV-15 & 16	5	230/1/60	0.1	15	13x13x8	31	
BS-5	DAIKIN BSVQ60PVJU	BOARDROOM B224	VRV-17 & 17A	5	230/1/60	0.1	15	13x13x8	31	
BS-6	DAIKIN BSV6Q36PVJU	FACULTY/BREAK B227	VRV-18,19,20,21,22,23	3	230/1/60	0.6	15	25x62x8	196	
BS-7	DAIKIN BSV4Q36PVJU	CONST TECH CLASS C104	VRV-31,32,33,34	3	230/1/60	0.4	15	25x42x8	132	
BS-8	DAIKIN BSVQ36PVJU	WELDING CLASS C114	VRV-30	3	230/1/60	0.1	15	13x15x8	31	
BS-9	DAIKIN BSVQ36PVJU	WELDING CLASS C114	VRV-26	3	230/1/60	0.1	15	13x15x8	31	
BS-10	DAIKIN BSVQ36PVJU	CE & R CLASS C124	VRV-27	3	230/1/60	0.1	15	13x15x8	31	
BS-11	DAIKIN BSV4Q36PVJU	WELDING CLASS C114	VRV-24,25,28,29	3	230/1/60	0.4	15	25x42x8	132	
BS-12	DAIKIN BSVQ96PVJU	CAFETERIA B111	VRV-35A & 36B	8	230/1/60	0.1	15	13x15x8	33	
BS-13	DAIKIN BSVQ36PVJU	CAFETERIA B111	VRV-36	3	230/1/60	0.1	15	13x15x8	31	

CHEMICAL FEED SYSTEM SCHEDULE

ID	MANUFACTURER AND MODEL NUMBER	LOCATION	TYPE	OPERATOR	PUMP PRESSURE RATING (PSIG)	PUMP DISCHARGE PRESSURE (PSIG)	PUMP HP	PUMP VOLT/PH/HZ	PHYSICAL DIAMETER/ HEIGHT (IN)	PHYSICAL TANK SIZE (GAL)	NOTES
CFS-1	POWER ENG GC7	BOILER C203	30% PPG	PREHEAT	3.8	40	1/3	115/1/60	23/33	50	(1)

(1) SET FILL PRESSURE TO MATCH ASSOCIATED EXPANSION TANK SCHEDULED FILL PRESSURE.

PUMP SCHEDULE

ID	MANUFACTURER AND MODEL NUMBER	LOCATION	SERVICE	TYPE	FLUID FLOW RATE (GPM)	FLUID WORKING FLUID	ELECTRICAL HEAD LOSS (FT)	ELECTRICAL MOTOR SIZE (HP)	ELECTRICAL MOTOR BHP (HP)	ELECTRICAL MOTOR SPEED (RPM)	VOLT/PH/HZ	NOTES
P-1&2	ARMSTRONG 4030-4x3x11.5	BOILER C203	BUILDING HEATING	(2)	327	WATER	100	15	11.34	1750	460/3/60	(1)(2)(4)
P-3&4	ARMSTRONG 4030-3x2.5x10	BOILER C203	GLYCOL PREHEAT	(2)	295	30% PPG	70	10	7.02	1750	460/3/60	(1)(2)(4)
P-5	ARMSTRONG 4380 1.5x1.5x8	AH-1	COIL CIRCULATION	(5)	19	30% PPG	20	0.5	0.21	1150	115/1/60	(6)
P-6	ARMSTRONG 4380 1.5x1.5x8	AH-2	COIL CIRCULATION	(5)	26	30% PPG	20	0.5	0.26	1150	115/1/60	(6)
P-7	ARMSTRONG 4380 1.5x1.5x8	AH-3	COIL CIRCULATION	(5)	12	30% PPG	20	0.5	0.17	1150	115/1/60	(6)
P-8	ARMSTRONG 4380 1.5x1.5x8	AH-4	COIL CIRCULATION	(5)	21	30% PPG	20	0.5	0.22	1150	115/1/60	(6)

(1) PUMP CAPABLE OF MODULATING DOWN TO 25%. ONE VFD FOR EACH PUMP. VFD BY DIVISION 26.
(2) END SUCTION, CLOSE COUPLED, BASE MOUNT, VERTICAL SPLIT CASE.
(3) VERTICAL SPLIT CASE DESIGN IN CAST BRONZE FITTED CONSTRUCTION.
(4) PUMP OPERATES IN PRIMARY/STANDBY.
(5) INLINE CLOSE COUPLED.
(6) PUMP TO BE MOUNTED IN AHU PIPING VESTIBULE AND MUST BE CAPABLE OF VERTICAL OR HORIZONTAL MOUNTING AS REQUIRED.

AIR SEPARATOR SCHEDULE

ID	MANUFACTURER AND MODEL NUMBER	LOCATION	SERVICE	TYPE	FLUID FLOW RATE (GPM)	FLUID WORKING FLUID	HEAD LOSS (FT)	PHYSICAL DIA./ HEIGHT (IN)	PHYSICAL WEIGHT (LBS)	NOTES
AS-1	SPIROTHERM VDN600	BOILER C203	HOT WATER	AIR & DIRT	327	WATER	5	13 / 42	260	(1)
AS-2	SPIROTHERM VDN600	BOILER C203	PREHEAT	AIR & DIRT	295	30% PPG	5	13 / 42	260	(1)

(1) AIR SEPARATOR EQUIPPED WITH REMOVABLE HEAD FOR CLEANING.

AIR COOLED CONDENSING UNIT SCHEDULE

ID	MANUFACTURER AND MODEL NUMBER	LOCATION	REFRIG.	EVAPORATOR COIL: EVAPORATOR COIL ID	EVAPORATOR COIL: ASSOCIATED AIR HANDLER	CONDENSER: RATED CAPACITY (MBH)	ELECTRICAL: MAXIMUM KW	ELECTRICAL: MCA	ELECTRICAL: EER	ELECTRICAL: VOLT/PH/HZ	ELECTRICAL: MROPD	PHYSICAL: LENGTH/ WIDTH/ HEIGHT (IN)	PHYSICAL: UNIT WEIGHT (LBS)	NOTES
ACC-1	MCQUAY RCS110D	ROOF	R410A	DX-1	AH-1	1107.22	106.2	197.2	10.4	460/3/60	225	136/99/97	4270	(1)(2)(3)(4)(5)

(1) ALL CAPACITIES BASED ON 5,070 FEET ELEVATION AND AMBIENT CONDITIONS OF 97DB / 63 WB.
(2) UNIT COMPLETE WITH FACTORY ELECTRICAL DISCONNECT AND 115V CONVENIENCE OUTLET.
(3) EQUIPPED WITH SIX COMPRESSORS FOR A TOTAL OF SIX STAGES OF COOLING, AND ELECTRONIC MODULATING HOT GAS BYPASS ON THE FIRST STAGE OF COOLING. HOT GAS BYPASS WILL BE CONTROLLED BY DISCHARGE AIR TEMPERATURE.
(4) CONDENSING UNIT, AIR HANDLING UNIT, AND ASSOCIATED DX COIL, THERMAL BULB, TXV, AND ALL OTHER APPURTENANCES SHALL BE FURNISHED BY A SINGLE MANUFACTURER'S REPRESENTATIVE.
(5) REFRIGERANT LINE SET SHALL BE SIZED AND INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S GUIDELINES.

PLATE AND FRAME HEAT EXCHANGER SCHEDULE

ID	MANUFACTURER AND MODEL NUMBER	SERVICE	HEATING LOAD (MBH)	HEATING SURFACE AREA (FT^2)	HEATED SIDE: TOTAL FLUID FLOW (GPM)	HEATED SIDE: ENTER/ LEAVING FLUID TEMP (DEG. F)	HEATED SIDE: WORKING FLUID	HEATED SIDE: MAXIMUM WATER PRESSURE DROP (FT)	COOLED SIDE: TOTAL FLUID FLOW (GPM)	COOLED SIDE: ENTER/ LEAVING FLUID TEMP (DEG. F)	COOLED SIDE: WORKING FLUID	COOLED SIDE: MAXIMUM WATER PRESSURE DROP (FT)	SIZE: LENGTH/ WIDTH/ HEIGHT (IN)	SIZE: NUMBER OF PLATES	NOTES
HX-1	ARMSTRONG S-96X-2000-167	GLYCOL PREHEAT	4,224	2052	215	150/110	WATER	4.6	295	110/140	30% PPG	9.8	86/28/90	167	

SAWDUST COLLECTOR SCHEDULE

ID	MANUFACTURER AND MODEL NUMBER	AREA SERVED	LOCATION	AIR: MAXIMUM AIRFLOW RATE (CFM)	AIR: STATIC PRESSURE (IN. WATER)	FILTER: EFFICIENCY (%)	FILTER: FILTER AREA (SQ. FT)	ELECTRICAL EXHAUST FAN: MOTOR SIZE (HP)	ELECTRICAL EXHAUST FAN: VOLT/PH/HZ	ELECTRICAL FILTER SHAKER: MOTOR SIZE (HP)	ELECTRICAL FILTER SHAKER: VOLT/PH/HZ	PHYSICAL: LENGTH/ WIDTH/ HEIGHT (IN)	PHYSICAL: WEIGHT (LBS)	NOTES
SDC-1	AQC AMV-700	CONST TECH LAB C103	LOADING DOCK	5,040	12	99	700	15	460V/3/60	1	115/1/60	103/66/164	2000	(1)(2)(4)(6)
GDC-1	AQC AMV-270	GRINDING C108	LOADING DOCK	1,540	10.5	99	270	5	460V/3/60	1	115/1/60	55/63/145	1250	(1)(3)(4)

(1) ALL CAPACITIES BASED ON 5,070 FEET ELEVATION.
(2) SAWDUST COLLECTOR. SHAKER TYPE DUST COLLECTOR COMPLETE WITH NFPA EXPLOSION RELIEF VENT WITH OVERHEAD CANOPY FOR EXTERIOR INSTALLATION, (QTY. 2) 55 GALLON DRUMS FOR DUST STORAGE, PREMIUM EFFICIENCY TEFC MOTOR, ALUMINUM SPARK PROOF IMPELLER, INSULATED SOUND PLENUM WITH EXHAUST SILENCER, CABINET MOUNTED STARTER AND CONTROL PANEL, FACTORY SUPPLIED 115V TRANSFORMER

VARIABLE REFRIGERANT VOLUME (VRV) INDOOR FAN COIL UNIT SCHEDULE

ID	MANUFACTURER AND MODEL NUMBER	LOCATION	TYPE	OUTDOOR UNIT	BRANCH SELECTOR	AIRFLOW (CFM)	MAXIMUM EXT. SP (IN. W.G.)	TOTAL COOLING CAPACITY (BTU/HR)	SENSIBLE COOLING CAPACITY (BTU/HR)	HEATING CAPACITY (BTU/HR)	ELECTRICAL VOLT/PH/HZ	ELECTRICAL MCA (AMPS)	ELECTRICAL MOP (AMPS)	PHYSICAL LENGTH/ WIDTH/ HEIGHT (IN)	PHYSICAL WEIGHT (LBS)	NOTES
VRV-1A	DAIKIN FXFQ24PVJU	CAFETERIA B111	CASSETTE	HP-1	BS-1	780	---	18189	18189	15727	230/1/60	0.5	15	33x33x11	61	(1)(2)
VRV-1B	DAIKIN FXFQ24PVJU	CAFETERIA B111	CASSETTE	HP-1	BS-1	780	---	18189	18189	15727	230/1/60	0.5	15	33x33x11	61	(1)(2)
VRV-2A	DAIKIN FXFQ24PVJU	CAFETERIA B111	CASSETTE	HP-1	BS-1	1220	---	36211	33172	32443	230/1/60	1.5	15	33x33x11	66	(1)(2)
VRV-2B	DAIKIN FXFQ24PVJU	CAFETERIA B111	CASSETTE	HP-1	BS-1	780	---	18189	18189	15727	230/1/60	0.5	15	33x33x11	61	(1)(2)
VRV-3	DAIKIN FXFQ07MT7VJU	OFFICE B115	CASSETTE	HP-1	BS-2	320	---	5647	5647	5069	230/1/60	0.8	15	33x33x10	42	(1)(2)
VRV-4	DAIKIN FXFQ07MT7VJU	PLACEMENT B113	CASSETTE	HP-1	BS-2	320	---	5690	5690	5069	230/1/60	0.8	15	33x33x10	42	(1)(2)
VRV-5	DAIKIN FXFQ07MT7VJU	PLACEMENT OFFICE B114	CASSETTE	HP-1	BS-2	320	---	5722	5722	5069	230/1/60	0.8	15	33x33x10	42	(1)(2)
VRV-6	DAIKIN FXFQ36PVJU	MEDIA B112	CASSETTE	HP-1	BS-2	1180	---	27158	27158	24332	230/1/60	1.4	15	33x33x11	66	(1)(2)
VRV-7	DAIKIN FXFQ12M7VJU	SS VP B126	CASSETTE	HP-1	BS-2	335	---	9121	8248	8111	230/1/60	0.8	15	33x33x10	42	(1)(2)
VRV-8	DAIKIN FXFQ07MT7VJU	SPARE OFFICE B125	CASSETTE	HP-1	BS-2	320	---	5711	5177	5069	230/1/60	0.8	15	33x33x10	42	(1)(3)
VRV-9	DAIKIN FXFQ36PVJU	ASSESSMENT B116	CASSETTE	HP-1	BS-3	1180	---	27055	27055	24332	230/1/60	1.4	15	33x33x11	66	(1)(3)
VRV-10	DAIKIN FXFQ07MT7VJU	STG STUDENT RECORD B124	CASSETTE	HP-1	BS-3	320	---	5637	5637	5069	230/1/60	0.8	15	33x33x10	42	(1)(2)
VRV-11	DAIKIN FXFQ07MT7VJU	SIS OFFICE B123	CASSETTE	HP-1	BS-3	320	---	5669	5669	5069	230/1/60	0.8	15	33x33x10	42	(1)(2)
VRV-12	DAIKIN FXFQ07MT7VJU	COUNSELOR B122	CASSETTE	HP-1	BS-3	320	---	5626	5626	5069	230/1/60	0.8	15	33x33x10	42	(1)(2)
VRV-13	DAIKIN FXFQ24PVJU	ENROLLMENT WAITING B121	CASSETTE	HP-1	BS-3	780	---	17900	17900	16221	230/1/60	0.5	15	33x33x10	61	(1)(2)
VRV-14	DAIKIN FXFQ12PVJU	ENROLLMENT B120	CASSETTE	HP-1	BS-3	460	---	8950	8950	8111	230/1/60	0.3	15	33x33x10	55	(1)(2)
VRV-15	DAIKIN FXFQ24PVJU	RECEPTION/WAITING B223	CASSETTE	HP-2	BS-4	780	---	18741	18741	18193	230/1/60	0.5	15	33x33x10	61	(1)(2)
VRV-16	DAIKIN FXFQ24PVJU	RECEPTION/WAITING B223	CASSETTE	HP-2	BS-4	780	---	18321	18321	18193	230/1/60	0.5	15	33x33x10	61	(1)(2)
VRV-17	DAIKIN FXFQ24PVJU	BOARDROOM B224	CASSETTE	HP-2	BS-5	780	---	18644	18644	18193	230/1/60	0.5	15	33x33x10	61	(1)(2)
VRV-17A	DAIKIN FXFQ24PVJU	BOARDROOM B224	CASSETTE	HP-2	BS-5	780	---	18644	18644	18193	230/1/60	0.5	15	33x33x10	61	(1)(2)
VRV-18	DAIKIN FXFQ07MT7VJU	WORKROOM B226	CASSETTE	HP-2	BS-6	320	---	5725	5725	5685	230/1/60	0.8	15	33x33x10	42	(1)(2)
VRV-19	DAIKIN FXFQ07MT7VJU	KITCHEN B225	CASSETTE	HP-2	BS-6	320	---	5626	5626	5069	230/1/60	0.8	15	33x33x10	42	(1)(2)
VRV-20	DAIKIN FXFQ18PVJU	FACULTY/BREAK B227	CASSETTE	HP-2	BS-6	560	---	13740	13740	13645	230/1/60	0.4	15	33x33x10	55	(1)(2)
VRV-21	DAIKIN FXFQ12PVJU	EXERCISE B232	CASSETTE	HP-2	BS-6	460	---	8950	8950	8111	230/1/60	0.3	15	33x33x10	55	(1)(2)
VRV-22	DAIKIN FXFQ24PVJU	WELLNESS B233	CASSETTE	HP-2	BS-6	780	---	18644	18644	18193	230/1/60	0.5	15	33x33x10	61	(1)(2)
VRV-23	DAIKIN FXMQ09PVJU	TOILET B230	DUCTED	HP-2	BS-6	320	0.4	7290	7290	7201	230/1/60	0.6	15	28x22x12	55	(1)(3)
VRV-24	DAIKIN FXFQ18PVJU	DIESEL CLASSROOM C112	CASSETTE	HP-3	BS-11	560	---	14191	14191	14290	230/1/60	0.4	15	33x33x10	55	(1)(2)
VRV-25	DAIKIN FXFQ18PVJU	WELDING CLASSROOM C114	CASSETTE	HP-3	BS-11	560	---	14191	14191	14290	230/1/60	0.4	15	33x33x10	55	(1)(2)
VRV-26	DAIKIN FXMQ07PVJU	CE & R STORAGE C122	DUCTED	HP-3	BS-9	320	0.4	6011	6011	5954	230/1/60	0.6	15	28x22x12	55	(1)(3)
VRV-27	DAIKIN FXFQ24PVJU	CE & R CLASSROOM C124	CASSETTE	HP-3	BS-10	780	---	19145	19145	19054	230/1/60	0.5	15	33x33x10	61	(1)(2)
VRV-28	DAIKIN FXFQ07MT7VJU	DIESEL OFFICE C113	CASSETTE	HP-3	BS-11	320	---	5969	5969	5954	230/1/60	0.8	15	33x33x10	42	(1)(2)
VRV-29	DAIKIN FXMQ07PVJU	SUPPLY ROOM C110	DUCTED	HP-3	BS-11	320	0.4	5885	5885	5954	230/1/60	0.6	15	28x22x12	55	(1)(3)
VRV-30	DAIKIN FXMQ07PVJU	WELDING STORAGE C116	DUCTED	HP-3	BS-8	320	0.4	6060	6060	5954	230/1/60	0.6	15	28x22x12	55	(1)(3)
VRV-31	DAIKIN FXFQ18PVJU	CONST TECH CLASS C104	CASSETTE	HP-3	BS-7	560	---	14510	14224	14290	230/1/60	0.4	15	33x33x10	55	(1)(2)
VRV-32	DAIKIN FXMQ07PVJU	CT STORAGE C105	DUCTED	HP-3	BS-7	320	0.4	6039	6039	5954	230/1/60	0.6	15	28x22x12	55	(1)(3)
VRV-33	DAIKIN FXMQ07PVJU	RECEIVING C102A	DUCTED	HP-3	BS-7	320	0.4	6025	6025	5954	230/1/60	0.6	15	28x22x12	55	(1)(3)(4)
VRV-34	DAIKIN FXFQ12M7VJU	SHELLED LAB C102	CASSETTE	HP-3	BS-7	335	---	9595	8461	9527	230/1/60	0.8	15	33x33x10	42	(1)(2)(4)
VRV-35A	DAIKIN FXMQ48PVJU	KITCHEN B108	DUCTED	HP-1	BS-12	1380	0.8	35429	35429	31453	230/1/60	3.4	15	28x55x12	105	(1)(3)
VRV-35B	DAIKIN FXMQ48PVJU	KITCHEN B108	DUCTED	HP-1	BS-12	1380	0.8	35236	35236	31453	230/1/60	3.4	15	28x55x12	105	(1)(3)
VRV-36	DAIKIN FXFQ12PVJU	RECEPTION B119	CASSETTE	HP-1	BS-13	460	---	9010	VR	7863	230/1/60	0.3	15	33x33x10	55	(1)(2)
								187296	134325	130676						

(1) CAPACITY BASED AT 5,070 FEET ELEVATION.
(2) CASSETTE TYPE INDOOR FANCOIL UNIT COMPLETE WITH DECORATIVE FACE PANEL, ELECTRICAL DISCONNECT, INTEGRAL CONDENSATE DRAIN PAN AND PUMP, AND MERV 13 FILTER.
(3) CONCEALED DUCTED INDOOR FANCOIL UNIT COMPLETE WITH MERV 13 FILTER KIT AND PRESSURE TAPS, ELECTRICAL DISCONNECT, AND INTEGRAL CONDENSATE DRAIN PAN AND PUMP.
(4) UNIT IS LOCATED IN SHELLED SPACE AND IS LISTED FOR SYSTEM SIZING AND INFORMATION PURPOSES ONLY. NOT INCLUDED IN CONTRACT.

VARIABLE REFRIGERANT VOLUME (VRV) AIR COOLED CONDENSING UNIT SCHEDULE

ID	MANUFACTURER AND MODEL NUMBER	OUTDOOR UNIT MODEL NUMBER	AREA SERVED	LOCATION	RATED COOLING CAPACITY (MBH)	RATED HEATING CAPACITY (MBH)	COOLING EER	HEATING COP	REFRIGERANT	ELECTRICAL MINIMUM CIRCUIT AMPACITY (MCA)	ELECTRICAL MAXIMUM FUSIBLE AMPS (MFA)	ELECTRICAL INPUT POWER (kW)	ELECTRICAL VOLT/PHASE/HZ	PHYSICAL LENGTH/ WIDTH/ HEIGHT (IN)	PHYSICAL WEIGHT (LBS)	NOTES
HP-1	DAIKIN REYQ336PBYD	REMQ96PBYD	OFFICE LVL 1	ROOF	300.4	246.4	10.2	3.23	R410A	20.3	25	11.1	460/3/60	30x37x66	465	(1)(2)(3)(4)
		REMQ120PBYD								20.5	30	11.7	460/3/60	30x37x66	575	(1)(2)(3)(4)
		REMQ120PBYD								20.5	30	11.7	460/3/60	30x37x66	575	(1)(2)(3)(4)
HP-2	DAIKIN REYQ168PBYD	REMQ96PBYD	OFFICE LVL 2	ROOF	143.8	132.2	12	3.7	R410A	20.3	25	11.1	460/3/60	30x37x66	465	(1)(2)(3)(4)
		REMQ72PBYD								20.2	25	11.1	460/3/60	30x37x66	465	(1)(2)(3)(4)
HP-3	DAIKIN REYQ144PBYD	REMQ72PBYD	SHOP AREA	ROOF	118.7	114.3	13.8	3.8	R410A	20.2	25	11.1	460/3/60	30x37x66	465	(1)(2)(3)(4)
		REMQ72PBYD								20.2	25	11.1	460/3/60	30x37x66	465	(1)(2)(3)(4)

(1) CAPACITY BASED AT 5,070 FEET ELEVATION.
(2) COOLING CAPACITY RATED FOR 96 DEG F. HEATING CAPACITY RATED AT 6 DEG F.
(3) EACH OUTDOOR UNIT CONSISTS OF MULTIPLE CONDENSING UNITS, EACH WITH A SEPARATE ELECTRIC FEEDER.

EXPANSION TANK SCHEDULE

ID	MANUFACTURER AND MODEL NUMBER	LOCATION	SERVICE	TYPE	FLUID WORKING FLUID	FLUID MIN. TANK ACCEPTANCE (GAL)	FLUID INITIAL FILL PRESSURE (PSI)	PHYSICAL TANK SIZE (GAL)	PHYSICAL RELIEF VALVE (PSIG)	PHYSICAL DIA./ HEIGHT (IN)	PHYSICAL NPT FITTING (IN)	PHYSICAL WEIGHT (LBS)	NOTES
ET-1	B&G B-300	BOILER C203	HOT WATER	BLADDER	WATER	79/79	27	79	75	24 / 52	1	250	
ET-2	B&G B-300	BOILER C203	GLYCOL PREHEAT	BLADDER	30% PPG	79/79	30	79	75	24 / 52	1	250	

HOT WATER RADIANT PANEL SCHEDULE

ID	MANUFACTURER AND MODEL NUMBER	LOCATION	TYPE	EFFECTIVE LENGTH (FT)	TUBES	PANEL HEIGHT (IN)	PANEL WIDTH (IN)	INSTALL HEIGHT (IN)	MINIMUM HEATING CAPACITY (BTUH/FT)	TOTAL FLUID FLOW (GPM)	EWT/ LWT (DEG. F)	NOTES
RP-1	PANEL RADIATOR PR2F-2	(3)	WALL/PEDESTAL	(3)	4	5.75	3.5	11.625	531	(3)	150/130	(1)(2)(4)
RP-2	PANEL RADIATOR PRC-8	(3)	CEILING	(3)	8	3	23.125	---	430	(3)	150/130	(2)(4)(5)

(1) PROVIDE MOUNTING SYSTEM (PEDESTAL OR WALL) AND HARDWARE WITH END TRIM CAPS, CENTER TRIM, AND CORNER TRIM AS REQUIRED.
(2) ENCLOSURE SHALL BE 16 GAUGE COLD ROLLED STEEL WITH WELDED ENDS AND POLYESTER POWDER COAT FINISH. HEADERS SHALL CONTAIN ALL SUPPLY, RETURN, AND AIR VENT CONNECTIONS AS REQUIRED. SUBMIT COLOR CHART INCLUDING ALL AVAILABLE COLORS FROM KWAL PAINT AND SHERWIN WILLIAMS TO ARCHITECT PRIOR TO SUBMITTAL FOR APPROVAL.
(3) SEE PLANS.
(4) ALL CAPACITIES BASED ON 65 DEG-F ROOM TEMPERATURE, 140 DEG-F AVERAGE WATER TEMPERATURE, AND HOT WATER AS WORKING FLUID.
(5) PROVIDE MOUNTING SYSTEM AND ALL HARDWARE REQUIRED FOR CEILING HUNG INSTALLATION. CEILING HUNG PANELS SHALL BE FLUSH WITH CEILING AND SHALL FIT IN A STANDARD 2 FT WIDE LAY-IN OR HARD LID CEILING AS DETERMINED BY CEILING TYPE.

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project:
TOOELE APPLIED TECHNOLOGY COLLEGE - NEW BUILDING

88 South Tooele Blvd
Tooele, UT 84074

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date: 1/20/11

revisions :

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MECHANICAL SCHEDULES

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ME601

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VAV BOX SCHEDULE

ID	MANUFACTURER AND MODEL NUMBER	AREA SERVED	INLET SIZE (IN)	AIR COOLING MAXIMUM AIR (CFM)	AIR HEATING MAXIMUM AIR (CFM)	AIR MINIMUM AIR (CFM)	AIR LEAVING AIR TEMP. DB (DEG. F)	NC LEVELS @ 2" S.P. AIR	NC LEVELS @ 2" S.P. RAD	FLUID HEAT CAPACITY (MBH)	FLUID TOTAL FLUID FLOW (GPM)	FLUID WORKING FLUID	REMARKS
VR-1	PRICE SDV	MA OFFICE A105	6	280	210	85	96.9	19	19	8.7	0.8	H. WATER	(1)(2)(3)(4)(5)
VR-2	PRICE SDV	MEDICAL ASSIST CLASS A101	14	1560	500	500	91.3	28	30	18.1	1.8	H. WATER	(1)(2)(3)(4)(5)
VR-3	PRICE SDV	EXAM A107	8	440	355	135	97	25	22	14.7	1.4	H. WATER	(1)(2)(3)(4)(5)
VR-4	PRICE SDV	MEDICAL ASSIST LAB A104	12	1140	415	350	96.9	27	27	17.1	1.7	H. WATER	(1)(2)(3)(4)(5)
VR-5	PRICE SDV	CORRIDOR B100	10	905	275	275	80	25	24	7.1	0.7	H. WATER	(1)(2)(3)(4)(5)
VR-6	PRICE SDV	TESTING A102	8	430	130	130	80	25	22	3.3	0.5	H. WATER	(1)(2)(3)(4)(5)
VR-7	PRICE SDV	SURGERY A106	8	380	115	115	80	24	21	3.0	0.5	H. WATER	(1)(2)(3)(4)(5)
VR-8	PRICE SDV	XRAY A108	8	420	335	130	96.8	25	22	13.8	1.3	H. WATER	(1)(2)(3)(4)(5)
VR-9	PRICE SDV	OFFICE A110	6	350	220	110	96.7	22	21	9.0	0.9	H. WATER	(1)(2)(3)(4)(5)
VR-10	PRICE SDV	OFFICE A111	6	350	220	110	96.7	22	21	9.0	0.9	H. WATER	(1)(2)(3)(4)(5)
VR-11	PRICE SDV	OFFICE A112	6	350	220	110	96.7	22	21	9.0	0.9	H. WATER	(1)(2)(3)(4)(5)
VR-12	PRICE SDV	CPR A125	12	980	295	295	80	27	25	7.6	0.7	H. WATER	(1)(2)(3)(4)(5)
VR-13	PRICE SDV	CONTROL A119	6	160	80	80	80	18	15	2.1	0.5	H. WATER	(1)(2)(3)(4)(5)
VR-14	PRICE SDV	OFFICE A116	6	350	220	160	96.7	22	21	9.0	0.9	H. WATER	(1)(2)(3)(4)(5)
VR-15	PRICE SDV	SIM ROOM A120	6	190	80	80	80	18	16	2.1	0.5	H. WATER	(1)(2)(3)(4)(5)
VR-16	PRICE SDV	LPN/CNA CLASS A126	12	1160	350	350	80	28	27	9.0	0.9	H. WATER	(1)(2)(3)(4)(5)
VR-17	PRICE SDV	LPN/CNA/RN LAB SUITE A128	24x16	2590	1135	780	97	29	30	47.0	4.6	H. WATER	(1)(2)(3)(4)(5)
VR-18	PRICE SDV	RN CLASS A127	12	1455	440	440	80	29	29	11.3	1.1	H. WATER	(1)(2)(3)(4)(5)
VR-19	PRICE SDV	MULTIPURPOSE ROOM B103	14	1800	540	540	96	29	30	21.9	2.1	H. WATER	(1)(2)(3)(4)(5)
VR-20	PRICE SDV	MULTIPURPOSE ROOM B103	14	1800	540	540	96	29	30	21.9	2.1	H. WATER	(1)(2)(3)(4)(5)
VR-21	PRICE SDV	MULTIPURPOSE ROOM B103	14	1975	810	595	97	30	30	33.5	3.3	H. WATER	(1)(2)(3)(4)(5)
VR-22	PRICE SDV	MULTIPURPOSE ROOM B103	14	1800	540	540	96	29	30	21.9	2.1	H. WATER	(1)(2)(3)(4)(5)
VR-23	PRICE SDV	WOMEN/MEN TOILET B105/B106	12	870	870	870	80	24	23	22.4	2.2	H. WATER	(1)(2)(3)(4)(5)
VR-24	PRICE SDV	KITCHEN B108	12	1380	1380	0	80	28	29	35.5	3.5	H. WATER	(1)(2)(3)(4)(5)
VR-25	PRICE SDV	BOOKSTORE B110	8	575	175	175	80	23	22	4.5	0.5	H. WATER	(1)(2)(3)(4)(5)
VR-26	PRICE SDV	TESTING A202	10	800	240	240	95.2	28	23	9.5	0.9	H. WATER	(1)(2)(3)(4)(5)
VR-27	PRICE SDV	BT LAB A201	24x16	2600	990	780	96.9	29	30	40.9	4.0	H. WATER	(1)(2)(3)(4)(5)
VR-28	PRICE SDV	BT OFFICE A203	6	160	80	80	80	18	15	2.1	0.5	H. WATER	(1)(2)(3)(4)(5)
VR-29	PRICE SDV	USU CLASSROOM A204	12	1040	395	395	96.1	27	26	16.0	1.6	H. WATER	(1)(2)(3)(4)(5)
VR-30	PRICE SDV	USU CLASSROOM A205	12	1040	395	395	96.1	27	26	16.0	1.6	H. WATER	(1)(2)(3)(4)(5)
VR-31	PRICE SDV	IT OFFICE A206	6	160	80	80	80	18	15	2.1	0.5	H. WATER	(1)(2)(3)(4)(5)
VR-32	PRICE SDV	IT CLASSROOM A207	14	1950	585	585	90.2	30	30	20.6	2.0	H. WATER	(1)(2)(3)(4)(5)
VR-33	PRICE SDV	IT TESTING A208	10	770	235	235	92.7	28	23	8.8	0.9	H. WATER	(1)(2)(3)(4)(5)
VR-34	PRICE SDV	SERVER/IT STORAGE A210	8	525	290	160	96.8	22	22	12.0	1.2	H. WATER	(1)(2)(3)(4)(5)
VR-35	PRICE SDV	IT ASSISTANT A212	6	145	80	80	80	17	14	2.1	0.5	H. WATER	(1)(2)(3)(4)(5)
VR-36	PRICE SDV	IT ADMIN A211	8	385	185	120	96.9	24	21	7.6	0.7	H. WATER	(1)(2)(3)(4)(5)
VR-37	PRICE SDV	DIRECTOR B201	6	275	150	85	96.2	19	18	6.1	0.6	H. WATER	(1)(2)(3)(4)(5)
VR-38	PRICE SDV	CORRIDOR A200	16	2080	995	625	97	27	30	41.2	4	H. WATER	(1)(2)(3)(4)(5)
VR-39	PRICE SDV	CURRICULUM DEVELOPER B202	6	320	160	100	96.8	21	20	6.6	0.6	H. WATER	(1)(2)(3)(4)(5)
VR-40	PRICE SDV	ASSISTANT B203	6	300	150	90	96.8	20	19	6.2	0.6	H. WATER	(1)(2)(3)(4)(5)
VR-41	PRICE SDV	VP INSTRUCTION OFFICE B204	10	700	485	210	96.9	27	22	20.0	1.9	H. WATER	(1)(2)(3)(4)(5)
VR-42	PRICE SDV	DIRECTOR B205	6	260	175	80	96.5	18	18	7.2	0.7	H. WATER	(1)(2)(3)(4)(5)
VR-43	PRICE SDV	MARKETING OFFICE B214	8	500	150	150	85	21	21	4.6	0.5	H. WATER	(1)(2)(3)(4)(5)
VR-44	PRICE SDV	CUSTOM B206	6	280	185	85	97	19	19	7.7	0.7	H. WATER	(1)(2)(3)(4)(5)
VR-45	PRICE SDV	USU OFFICE B207	6	240	160	80	96.9	19	18	6.6	0.6	H. WATER	(1)(2)(3)(4)(5)
VR-46	PRICE SDV	USU OFFICE B208	6	240	160	80	96.9	19	18	6.6	0.6	H. WATER	(1)(2)(3)(4)(5)
VR-47	PRICE SDV	OPEN OFFICE B216	10	665	200	200	83	27	22	5.7	0.6	H. WATER	(1)(2)(3)(4)(5)
VR-48	PRICE SDV	DIRECTOR OFFICE / FINANCE B209	6	240	160	80	97	19	18	6.6	0.6	H. WATER	(1)(2)(3)(4)(5)
VR-49	PRICE SDV	HUMAN RESOURCES B210	6	240	160	80	97	19	18	6.6	0.6	H. WATER	(1)(2)(3)(4)(5)
VR-50	PRICE SDV	EXECUTIVE CONFERENCE RM B211	10	750	485	225	96.8	27	23	20.0	1.9	H. WATER	(1)(2)(3)(4)(5)
VR-51	PRICE SDV	PRESIDENT B212	10	610	470	185	96.9	26	21	19.4	1.9	H. WATER	(1)(2)(3)(4)(5)
VR-52	PRICE SDV	PRESIDENT ASSISTANT B213	8	360	255	110	96.6	23	21	10.5	1	H. WATER	(1)(2)(3)(4)(5)
VR-53	PRICE SDV	MEN/WOMEN B221 & B222	10	805	805	805	80	28	23	20.7	2.0	H. WATER	(1)(2)(3)(4)(5)
VR-54	PRICE SDV	CDL CLASSROOM C201	10	765	230	230	81.5	28	23	6.2	0.6	H. WATER	(1)(2)(3)(4)(5)
VR-55	PRICE SDV	LOBBY B101	24x16	2700	2700	2700	85	30	30	82.0	7.4	H. WATER	(1)(2)(3)(4)(5)
VR-56	PRICE SDV	VESTIBULE C100	16	2025	2015	610	97	27	30	83.4	8.1	H. WATER	(1)(2)(3)(4)(5)

(1) ALL CAPACITIES AT 5,070 FEET.

(2) ENTERING AIR AT 52 DEG F.

(3) GPM BASED ON 150 DEG F ENTERING WATER TEMPERATURE, 130 DEG F LEAVING WATER TEMPERATURE.

(4) COIL MAXIMUM P.D. AT 5.0 FT HD; MAXIMUM AIR P.D. AT 0.40" W.G.

(5) PRESSURE INDEPENDENT TYPE BOX.

FAN SCHEDULE

ID	MANUFACTURER AND MODEL NUMBER	LOCATION	SERVICE	TYPE	AIR MAXIMUM AIRFLOW RATE (CFM)	AIR STATIC PRESSURE (IN. WATER)	FAN OUTLET VELOCITY (FPM)	FAN FAN SPEED (RPM)	ELECTRICAL MOTOR SIZE (HP)	ELECTRICAL MOTOR BHP (HP)	ELECTRICAL MOTOR SPEED (RPM)	ELECTRICAL VOLT/PH/HZ	PHYSICAL LENGTH/ WIDTH/ HEIGHT (IN)	PHYSICAL WEIGHT (LBS)	NOTES
EF-1	GREENHECK G-090-VG	ROOF	1ST FLOOR NURSING	DOME	660	0.45	880	1725	1/4	0.08	1725	115/1/60	22 DIA / 16	36	(1)(2)
EF-2	GREENHECK SQ-75-D	LAUNDRY A114	CLOTHES DRYER EXHAUST	INLINE	120	0.5	194	1550	1/30	0.02	1550	115/1/60	15 / 12 / 12	30	(1)(9)(10)
EF-3	GREENHECK G-133-VG	ROOF	ADMIN GENERAL EXHAUST	DOME	2055	0.45	1835	1634	3/4	0.4	1634	460/3/60	28 DIA / 26	60	(1)(2)
EF-4	GREENHECK G-097-VG	ROOF	ELEVATOR MACHINE EXHAUST	DOME	100	0.4	104	1104	1/4	0.02	1725	115/1/60	24 DIA / 26	50	(1)(2)
EF-5	GREENHECK G-123-VG	ROOF	2ND FLOOR AREA 2	DOME	1320	0.35	1419	1302	1/2	0.17	1725	115/1/60	24 DIA / 26	60	(1)(2)
EF-6	GREENHECK SWB-212	ROOF	WELDING BOOTH EXHAUST	UTILITY VENT SET	1800	3.5	2195	2984	2	1.56	1725	460/3/60	23 / 27 / 24	175	(1)(4)(11)
EF-7	GREENHECK SWB-124	ROOF	WELDING GENERAL EXHAUST	UTILITY VENT SET	6510	0.92	1973.0	910	2	1.72	1725	460/3/60	46 / 47 / 49	500	(1)(4)(5)
EF-8	GREENHECK SWB-216	ROOF	WELDING BOOTH EXHAUST	UTILITY VENT SET	3600	3.85	2368	2314	5	3.39	1725	460/3/60	31 / 34 / 33	255	(1)(4)(11)
EF-9	GREENHECK SWB-216	ROOF	WELDING BOOTH EXHAUST	UTILITY VENT SET	3600	4.0	2368	2350	5	3.52	1725	460/3/60	31 / 34 / 33	275	(1)(4)(11)
EF-10	GREENHECK SWB-218	ROOF	DIESEL VEHICLE EXHAUST	UTILITY VENT SET	3600	4.3	1957	2090	5	3.86	1725	460/3/60	34 / 38 / 36	350	(1)(4)(11)
EF-11	GREENHECK SWB-212	ROOF	DIESEL VEHICLE EXHAUST	UTILITY VENT SET	1800	3.8	2195	3082	2	1.7	1725	460/3/60	23 / 27 / 24	175	(1)(4)(11)
EF-12	GREENHECK SWB-224	ROOF	DIESEL GENERAL EXHAUST	UTILITY VENT SET	7640	0.95	2315	1055	3	2.26	1725	460/3/60	46 / 47 / 49	530	(1)(4)(5)
EF-13	GREENHECK G-123-VG	ROOF	MINIMUM SHOP EXHAUST	DOME	1285	0.6	1382	1421	1/2	0.23	1725	115/1/60	24 DIA / 26	57	(1)(2)(5)
EF-14	GREENHECK CUBE-141	ROOF	KITCHEN HOOD EXHAUST	UPBLAST	1725	0.75	1003	1373	1/2	0.41	1725	115/1/60	29 DIA / 32	100	(1)(6)(7)(8)
EF-15	GREENHECK G-123-VG	ROOF	BOILER ROOM VENTILATION	DOME	1,640	0.4	1763	1551	1/2	0.28	1725	115/1/60	24 DIA / 26	60	(1)(2)(5)
EF-16	GREENHECK CUBE-141	ROOF	CONST TECH GEN EXHAUST	DOME	1,900	0.5	1105	1309	1/2	0.36	1725	115/1/60	29 DIA / 32	75	(1)(3)

(1) ALL CAPACITIES AT 5,070 FEET ELEVATION.

(2) ROOF MOUNTED EXHAUST FAN. COMPLETE WITH DC BRUSHLESS MOTOR (MINIMUM 85% EFFICIENT) PRE-FAB ROOF CURB, BIRD SCREEN, INTEGRAL THERMAL OVERLOAD PROTECTION, ELECTRICAL DISCONNECT, AND MOTORIZED BACKDRAFT DAMPER WITH END SWITCH AND INTERLOCK BY MECHANICAL.

(3) ROOF MOUNTED UPBLAST EXHAUST FAN. COMPLETE WITH PRE-FAB ROOF CURB, BIRD SCREEN, INTEGRAL THERMAL OVERLOAD PROTECTION, ELECTRICAL DISCONNECT, AND MOTORIZED BACKDRAFT DAMPER WITH ENDSWITCH AND INTERLOCK BY MECHANICAL.

(4) ROOF MOUNTED UTILITY VENT SET. COMPLETE WITH PRE-FAB ROOF CURB, MOTORIZED DAMPER AND END SWITCH, NEMA PREMIUM EFFICIENCY MOTOR WITH THERMAL OVERLOAD PROTECTION. OUTLET SHALL BE ORIENTED VERTICALLY. PROVIDE GUY WIRES AND INSTALL DUCT TO HEIGHT SHOWN ON PLANS.

(5) CONTROL: ATC.

(6) ROOF MOUNTED GREASE EXHAUST FAN (UL 762) COMPLETE WITH PRE-FAB ROOF CURB, HINGED BASE W/ FLEXIBLE CABLES, BIRDSCREEN, INTEGRAL THERMAL OVERLOAD PROTECTION, ELECTRICAL DISCONNECT, GREASE TRAP DRAIN, AND MOTORIZED BACKDRAFT DAMPER WITH END SWITCH.

(7) CONTROL: EXHAUST FAN SHALL BE CONTROLLED BY A HEAT SENSOR LOCATED IN THE KITCHEN EXHAUST HOOD.

(8) AIRFLOW AND EXTERNAL STATIC PRESSURE SPECIFIED IS BASED ON INFORMATION PROVIDED BY OTHERS. CONTRACTOR SHALL COORDINATE ACTUAL AIRFLOW AND STATIC PRESSURE DROP WITH KITCHEN SUPPLIER PRIOR TO SUBMITTING EXHAUST FAN FOR APPROVIAL. EXHAUST FAN SELECTED BASED ON THE FOLLOWING CRITERIA:

(A) KITCHEN HOOD - 1,725 CFM @ -0.37" S.P.

(9) DIRECT DRIVE INLINE EXHAUST FAN. COMPLETE WITH INTEGRAL THERMAL OVERLOAD PROTECTION, ELECTRICAL DISONNECT, AND VIBRATION ISOLATORS.

(10) CONTROL: INTERLOCK WITH CLOTHES DRYER.

(11) CONTROL: USER ACCESSIBLE WALL SWITCH. SEE PLANS FOR LOCATION.

GRILLES, REGISTERS AND DIFFUSERS

ID	MANUFACTURER	MODEL	SIZE	MAX CFM	MAX NC	DESCRIPTION
CD-1	EH PRICE	SPD	6" DIA 8" DIA 10" DIA 12" DIA 14" DIA	110 235 420 600 800	30	SQUARE PLAQUE CEILING DIFFUSERS. REMOVABLE FACE & CORE FRAME SHALL BE FOR SURFACE OR LAY-IN MOUNTING AS REQUIRED BY CEILING TYPE. LAY-IN FRAMES SHALL BE 24" x 24", 24" x 12" OR 12" x 12" AS REQUIRED TO FIT CEILING TILE SPACE AVAILABLE. PROVIDE ROUND NECK ADAPTER. COLOR SHALL BE WHITE.
CD-2	EH PRICE	HCD	15/18 15/24 15/36	885 1320 1875	30	HIGH CAPACITY DRUM LOUVER. INTEGRAL O.B.D. ADJUSTABLE VANES WITHIN A ROTATABLE DRUM. ROTATABLE DRUM CAPABLE OF PIVOTING UP TO 30 ° OFF CENTER. DRUM PIVOT MECHANISM INCORPORATES A POSITIONING DEVICE TO HOLD FIELD ADJUSTMENTS.
CD-3	EH PRICE	SDS 100	2 FT 3 FT 4 FT 5 FT	195 290 385 480	30	3 SLOT LINEAR CEILING DIFFUSER WITH FULLY ADJUSTABLE AIR PATTERN AND FLOW CONTROL VANES FOR ONE OR TWO WAY THROW PATTERN. UNITS SHALL HAVE 1" SLOTS AND INSULATED PLENUM WITH ROUND DUCT CONNECTION. FOR SURFACE OR LAY-IN MOUNTING AS REQUIRED. UNIT SHALL BE CURVED FACE FOR EXPOSED DUCT MOUNTING AS REQUIED.
CD-4	EH PRICE	HCF	12" DIA	700	30	ALUMINUM LOW VELOCITY HIGH CAPACITY LAMINAR FLOW DIFFUSER. EQUIPPED WITH VOLUME CONTROL DAMPER LOCATED IN THE INLET COLLAR. FACTORY SET ONE-WAY PATTERN; FLUSH CEILING INSTALLATION. FOR SURFACE OR LAY-IN MOUNTING AS REQUIRED BY CEILING TYPE. LAY-IN FRAMES SHALL BE 24"x48". COLOR SHALL BE WHITE.
RG-1 / EG-1	EH PRICE	PDDR	6 x 6 8 x 8 10 x 10 12 x 12 14 x 14 16 x 16	120 250 420 630 825 1120	30	PERFORATED FACE RETURN AIR GRILLE, REMOVABLE FACE & CORE. FRAME SHALL BE FOR SURFACE OR LAY-IN MOUNTING AS REQUIRED BY CEILING TYPE. LAY-IN FRAMES SHALL BE 24" x 24", 24" x 12" OR 12" x 12" AS REQUIRED TO FIT CEILING TILE SPACE AVAILABLE. AIR QUANTITY SHALL MATCH ROOM SUPPLY OR EXHAUST AIR QUANTITY. PROVIDE ROUND NECK ADAPTER AS REQUIRED, SEE PLANS. COLOR SHALL BE WHITE.
RG-2	EH PRICE	10FF	12 x 24	900	30	PERFORATED FACE FILTERED RETURN AIR UNIT, REMOVABLE FACE & CORE. FRAME SHALL BE FOR SURFACE OR LAY-IN MOUNTING AS REQUIRED BY CEILING TYPE. AIR QUANTITY SHALL MATCH ROOM SUPPLY OR EXHAUST AIR QUANTITY. GRILLE SHALL BE FURNISHED AND INSTALLED WITH FILTERS. FILTERS SHALL BE REPLACED WITH NEW FILTERS AT THE TIME OF SUBSTANTIAL COMPLETION. COLOR SHALL BE WHITE.
RG-3	EH PRICE	SDR 100	4 FT	480	30	4 SLOT LINEAR CEILING RETURN REGISTER WITH FLOW CONTROL VANES. UNITS SHALL HAVE 1" SLOTS AND SHALL MATCH CD-3 IN APPEARANCE. FOR SURFACE OR LAY-IN MOUNTING AS REQUIRED.
SWS-1	EH PRICE	620D	SEE PLANS	SEE PLANS	30	ALUMINUM DOUBLE DEFLECTION SIDE WALL SUPPLY REGISTER. HORIZONTAL FRONT WITH VERTICAL REAR STEEL DEFLECTION VANES SPACED AT 3/4" O.C. COMPLETE WITH O.B.D. ADJUSTABLE THROUGH FACE. COLOR SHALL BE BY ARCHITECT.
SWR-1	EH PRICE	630FF	SEE PLANS	SEE PLANS	30	DOUBLE DEFLECTION SIDE WALL RETURN REGISTER. HORIZONTAL FRONT WITH VERTICAL REAR STEEL DEFLECTION VANES SPACED AT 3/4" O.C. COMPLETE WITH O.B.D. ADJUSTABLE THROUGH FACE.
L-1	GREENHECK	ESD-603	SEE PLANS	---	---	WALL LOUVER. STATIONARY 6" THICK, 12 GA. EXT. ALUMINUM BLADES. 8 GA. FRAME WITH BIRD SCREEN. FACTORY POWDER COAT, COLOR TO BE SELECTED BY ARCHITECT. SEE MECHANICAL PLANS FOR SIZE AND LOCATION.
L-2	SEIHO	SFB-4	4"Ø	---	---	ALUMINUM DRYER VENT WITH BACKDRAFT FLAPPER DAMPER. COLOR TO BE SELECTED BY ARCHITECT. PROVIDE CUSTOM COLOR PALLET TO ARCHITECT FOR SELECTION.

AIR COOLED CONDENSING UNIT SCHEDULE

ID	MANUFACTURER AND MODEL NUMBER	LOCATION	REFRIG.	EVAPORATOR COIL EVAPORATOR COIL ID	EVAPORATOR COIL ASSOCIATED AIR HANDLER	CONDENSER RATED CAPACITY (MBH)	ELECTRICAL MAXIMUM KW	ELECTRICAL MCA	ELECTRICAL EER	ELECTRICAL VOLT/PH/HZ	ELECTRICAL MROPD	PHYSICAL LENGTH/ WIDTH/ HEIGHT (IN)	PHYSICAL UNIT WEIGHT (LBS)	NOTES
ACC-1	MCQUAY RCS110D	ROOF	R410A	DX-1	AH-1	1107.22	106.2	197.2	10.4	460/3/60	225	136/99/97	4270	(1)(2)(3)(4)(5)

(1) ALL CAPACITIES BASED ON 5,070 FEET ELEVATION AND AMBIENT CONDITIONS OF 97DB / 63 WB.

(2) UNIT COMPLETE WITH FACTORY ELECTRICAL DISCONNECT AND 115V CONVENIENCE OUTLET.

(3) EQUIPPED WITH SIX COMPRESSORS FOR A TOTAL OF SIX STAGES OF COOLING, AND ELECTRONIC MODULATING HOT GAS BYPASS ON THE FIRST STAGE OF COOLING. HOT GAS BYPASS WILL BE CONTROLLED BY DISCHARGE AIR TEMPERATURE.

(4) CONDENSING UNIT, AIR HANDLING UNIT, AND ASSOCIATED DX COIL, THERMAL BULB, TXV, AND ALL OTHER APPURTENANCES SHALL BE FURNISHED BY A SINGLE MANUFACTURER'S REPRESENTATIVE.

(5) REFRIGERANT LINE SET SHALL BE SIZED AND INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S GUIDELINES.

EXHAUST TUBING STORAGE REEL SCHEDULE

ID	MANUFACTURER AND MODEL NUMBER	LOCATION	AIRFLOW (CFM)	ELECTRICAL VOLT/PHASE/HZ	ELECTRICAL MOTOR HP	PHYSICAL HOSE DIAMETER (IN)	PHYSICAL HOSE LENGTH (FT)	PHYSICAL OUTLET CONNECTION (IN)	PHYSICAL LENGTH / WIDTH HEIGHT (IN)	PHYSICAL WEIGHT (LBS)	NOTES
TSR-1	CARMON TSR-P36	CE & R LAB C121	900	115/1/60	1/6	7"	30	8	55/20/35	170	(1)
TSR-2	CARMON TSR-P36	CE & R LAB C121	900	115/1/60	1/6	7"	30	8	55/20/35	170	(1)
TSR-3	CARMON TSR-P36	CE & R LAB C121	900	115/1/60	1/6	7"	30	8	55/20/35	170	(1)
TSR-4	CARMON TSR-P36	CE & R LAB C121	900	115/1/60	1/6	7"	30	8	55/20/35	170	(1)

(1) MOTORIZED EXHAUST TUBING STORAGE REEL COMPLETE WITH HIGH TEMPERATURE HOSE RATED FOR (1000 °F) OPERATING TEMPERATURE, REVERSIBLE GEAR MOTOR WITH WALL MOUNTED PUSH BUTTON, CAR-MON MODEL RDS-7 DIESEL STACK ADAPTER, AND (QTY. 2) 6" Ø -15 FT EXTENSION HOSES FOR LIGHT DUTY APPLICATIONS.

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AIR-TO-AIR ENERGY RECOVERY SCHEDULE

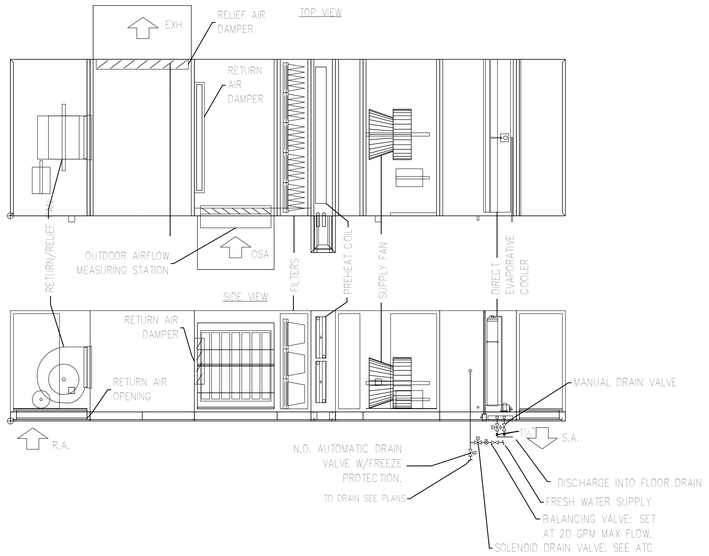
ID	MANUFACTURER	AREA SERVICE	MODEL NUMBER	MAX OPERATING WEIGHT (LBS)	SUPPLY AIRFLOW RATE (CFM)	SUPPLY EXTERNAL STATIC PRESSURE (IN. WG)	SUPPLY FAN RPM	SUPPLY FAN BHP	SUPPLY MOTOR HP	SUPPLY MOTOR RPM	SUPPLY MOTOR TYPE	EXHAUST AIRFLOW RATE (CFM)	EXHAUST EXTERNAL STATIC PRESSURE (IN. WG)	EXHAUST FAN RPM	EXHAUST FAN BHP	EXHAUST MOTOR HP	EXHAUST MOTOR RPM	EXHAUST MOTOR TYPE	WHEEL PERFORMANCE SUMMER EAT DB/WB	WHEEL PERFORMANCE SUMMER LAT DB/WB	WHEEL PERFORMANCE WINTER EAT DB/WB	WHEEL PERFORMANCE WINTER LAT DB/WB	HEATING COIL PERFORMANCE AIR EAT DB/WB	HEATING COIL PERFORMANCE AIR LAT DB	HEATING COIL PERFORMANCE FLUID (7) EWT/ LWT	HEATING COIL PERFORMANCE FLUID (7) FLOW GPM	HEATING COIL PERFORMANCE FLUID (7) P.D. FT. HD.	ELECTRICAL VOLTS / PHASE / CYCLE	ELECTRICAL MCA	ELECTRICAL MOCP	ELECTRICAL FROST PRE-HEAT KW	SOUND DATA AT SUPPLY/EXHAUST PER OCATVE 1	2	3	4	5	6	7	8	COMMENTS
ERV-1	GREENHECK	OFFICE VRV VENT	ERH-90H-30	5,625	6,040	1.1	1,156	4.1	5	1725	ODP	5,450	0.81	961	2.63	3	1725	ODP	97/63	77.7/58.8	0.0/-1.8	54.1/44.0	0.0/-1.8	60	140/110	23	2	460/3/60	48.6	50	20	76	92	86	84	83	82	80	74	(1)(2)(3)(4)(5)(6)(7)(8)(10)(11)(12)
ERV-2	GREENHECK	SHOP VRV VENT	ERH-45H-30	2,800	4,100	0.86	1,470	3	5	1725	ODP	3,890	0.65	1193	1.98	2	1725	ODP	97/63	77.6/58.8	0.0/-1.8	54.3/44.0	0.0/-1.8	60	140/110	16	1.8	460/3/60	30.4	35	10	89	78	71	71	68	69	66	53	(1)(2)(3)(4)(5)(6)(7)(8)(10)(11)(12)

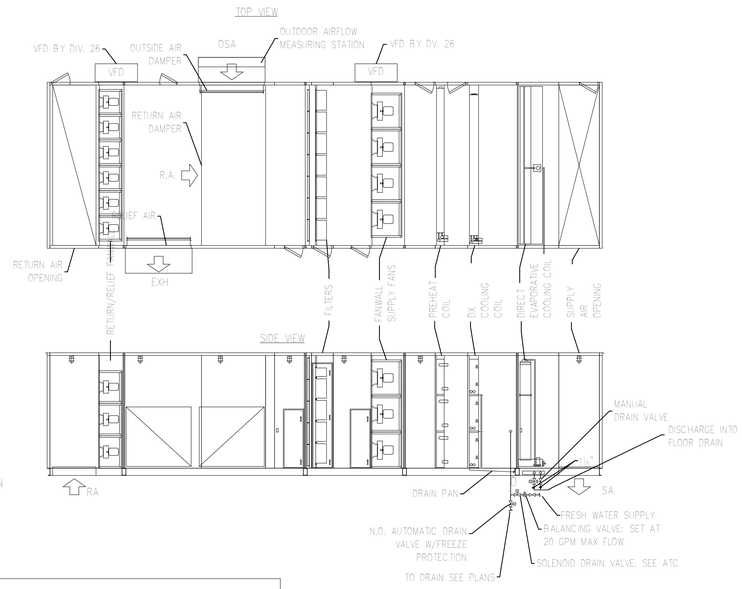
(1) ALL CAPACITIES AT 5070 FT ELEVATION
(2) PROVIDE ELECTRIC PRE-HEAT FROST CONTROL HEATER, FACTORY SET TO ENERGIZE AT 0 °F AT 460V.
(3) OUTDOOR CONDITIONS BASED ON 97 DB/63 WB SUMMER AND 0 DEG DB WINTER. INDOOR CONDITIONS BASED ON 72 DEG, 50% RH SUMMER AND 72 DEG 35% RH WINTER.
(4) PROVIDE MOTORIZED INTAKE DAMPER, MOTORIZED EXHAUST DAMPER, SPRING ISOLATED ROOF CURB, INTAKE/EXHAUST HOODS, PREMIUM EFFICIENCY MOTORS, ROTATION SENSOR, DIRTY FILTER SENSOR, MERV-8 PREFILTER AND MERV-13 FINAL FILTER (SUPPLY), MERV-8 FILTER (EXHAUST), SPARE FILTERS. MOTORIZED DAMPERS SHALL BE INTERLOCKING WITH FAN BY DIV. 23.
(5) 4" TOTAL RECOVERY HEAT WHEEL
(6) PROVIDE SINGLE POINT ELECTRICAL CONNECTION.
(7) HEATING COIL PERFORMANCE BASED ON 50% P.P.G.
(8) SUPPLY & EXHAUST DOWN DISCHARGE THRU CURB. SEE PLANS.
(9) SUPPLY & EXHAUST HORIZONTAL DISCHARGE ONTO ROOF. SEE PLANS.
(10) EQUIPPED WITH FACTORY MOUNTED STARTER AND 115 VOLT CONVENIENCE OUTLET. DISCONNECT BY DIV. 26.
(11) SUBMIT POWDER COATED COLOR PALLET TO ARCHITECT FOR CUSTOM COLOR SELECTION.
(12) UNIT SHALL BE EQUIPPED WITH SIDE ENCLOSURE PIPE CHASE SUFFICIENT IN SIZE TO HOUSE HEATING COIL AND ALL ASSOCIATED VALVES, UNIONS, PUMPS, ETC.

ROOFTOP AIR HANDLER SCHEDULE

ID	MANUFACTURER AND MODEL NUMBER	LOCATION	AREA SERVED	TYPE	AIR SUPPLY AIRFLOW (CFM)	AIR MINIMUM AIRFLOW (CFM)	MINIMUM VENTILATION RATE (CFM)	SUPPLY FAN EXTERNAL S.P. (IN. WATER)	RETURN FAN EXTERNAL S.P. (IN. WATER)	SUPPLY FAN MINIMUM ACTIVE FANS	SUPPLY FAN AIRFLOW PER FAN (CFM)	RETURN FAN MINIMUM ACTIVE FANS	RETURN FAN AIRFLOW PER FAN (CFM)	COILS HEATING COIL (7)	COILS COOLING COIL (7)	FILTERS PRE-FILTER (MERV)	FILTERS FINAL FILTER (MERV)	ELECTRICAL VOLT/PH/HZ	SUPPLY FAN EACH MOTOR (HP)	SUPPLY FAN TOTAL MOTOR (HP)	RETURN FAN EACH MOTOR (HP)	RETURN FAN TOTAL MOTOR (BHP)	SUPPLY FAN OPERATING FREQUENCY (HZ)	RETURN FAN EACH MOTOR (HP)	RETURN FAN TOTAL MOTOR (HP)	RETURN FAN EACH MOTOR (BHP)	RETURN FAN TOTAL MOTOR (BHP)	PHYSICAL CABINET LENGTH/ WIDTH/HEIGHT (IN)	PHYSICAL WEIGHT (LB)	NOTES
AH-1	HUNTAIR	ROOF	ADMINISTRATION	FANWALL VAV AHU	51,100	15,330	12,000	2.5	1.5	12	4258	18	2838	PHC-1	CC-1 / EC-1	8	13	460/3/60	5	60	4.25	50.95	81.6	1.5	27	1.15	20.64	615/184/140	58000	(1)(2)(3)(4)(5)(6)(8)
AH-2	MCQUAY OAH035GHDC	ROOF	WELDING LAB	VAV MAU	17,050	6,470	---	1.0	0.75	1	17,050	1	17,050	PHC-2	EC-2	8	13	460/3/60	---	15	---	9.35	---	---	20	---	18.04	362/102/66	11,000	(1)(2)(3)(4)(5)(6)(8)
AH-3	MCQUAY OAH017GHDC	ROOF	CONSTRUCTION TECH LAB	VAV MAU	7,400	60	---	1.0	0.75	1	7400	1	7,400	PHC-3	EC-3	8	13	460/3/60	---	7.5	---	4.84	---	---	5	---	3.94	300/80/46	6,200	(1)(2)(3)(4)(5)(6)(8)
AH-4	MCQUAY OAH030GHDC	ROOF	DIESEL LAB	VAV MAU	12,900	7,540	---	1.0	0.75	1	12,900	1	12,900	PHC-4	EC-4	8	13	460/3/60	---	10	---	6.38	---	---	10	---	8.66	340/98/60	10,000	(1)(2)(3)(4)(5)(6)(8)

(1) CAPACITY BASED ON 5,070 FEET ELEVATION.
(2) COOLING BASED ON 97DB/63WB DEG F AMBIENT. HEATING BASED ON 0 DEG F AMBIENT.
(3) EQUIPPED WITH FACTORY MOUNTED AND WIRED LIGHTS AND 115 VOLT CONVENIENCE OUTLET (POWERED BY DIV. 26).
(4) UNIT SHALL BE WIRED TO ACCEPT FIELD MOUNTED VFD. VFD SHALL BE PROVIDED AND INSTALLED BY DIVISION 26. CONTROLS BY ATC. COORDINATE NECESSARY CONTACTS WITH ATC CONTRACTOR. SEE SEQUENCE OF OPERATIONS.
(5) UNIT SHALL BE EQUIPPED WITH AIRFLOW MEASURING STATION (AFMS) ON OUTDOOR AIR INTAKE AND EXHAUST DISCHARGE. PROVIDE COLLARS ON INTAKE AND EXHAUST TO ALLOW FOR SENSOR MOUNTING.
(6) UNIT SHALL BE MOUNTED ON 14" ROOF CURB.
(7) SEE COIL SCHEDULE FOR MORE INFORMATION.
(8) UNIT SHALL BE EQUIPPED WITH SIDE ENCLOSURE PIPE CHASE SUFFICIENT IN SIZE TO HOUSE HEATING COIL AND ALL ASSOCIATED VALVES, UNIONS, PUMPS, ETC.





AIR HANDLER COIL SCHEDULE

ID	MANUFACTURER AND MODEL NUMBER	LOCATION	USAGE	AIR AIRFLOW RATE (CFM)	AIR TOTAL CAPACITY (BTU/H)	AIR SENSIBLE CAPACITY (BTU/H)	AIR ENTERING TEMP. DB/WB (°F)	AIR LEAVING TEMP. DB/WB (°F)	AIR STATIC PRESSURE (IN. WATER)	FLUID FLOW RATE (GPM)	FLUID ENTERING/ LEAVING TEMP. (°F)	FLUID WORKING FLUID	FLUID HEAD LOSS (FT)	PHYSICAL NO. COILS	PHYSICAL EACH COIL FIN WIDTH/ HEIGHT (IN)	PHYSICAL MINIMUM FACE AREA (FT²)	PHYSICAL MINIMUM NO. ROWS/ FINS PER INCH	NOTES
PHC-1	HUNTAIR	AH-1	HEATING	15,300	1,195,000	---	0	75.3	0.01	61.8	140/99.3	30% PPG	2.25	3	160 x 39	130	2 / 6	(1)
DX-1	HUNTAIR	AH-1	COOLING	51,100	1,280,823	1,229,648	79.2/60.4	51.9/50.3	0.27	---	---	R410A	---	3	156 x 39	126.75	6 / 6	(1)
EC-1	HUNTAIR	AH-1	EVAP COOLING	51,100	1,448,016	---	97/63	72	0.24	11.2	---	WATER	---	1	156 x 124	103.4	---	(1)(2)(3)(5)
PHC-2	MCQUAY 5WL0704B	AH-2	HEATING	17,050	1,282,434	---	0	83	0.26	86.6	140/108.9	30% PPG	6.7	2	89 x 27	33.38	4 / 7	(1)
EC-2	MCQUAY	AH-2	EVAP COOLING	17050	538,016	---	97/63	65.3	0.24	4.1	---	WATER	---	1	98 x 62	35	---	(1)(2)(3)(4)
PHC-3	MCQUAY 5WH0804B	AH-3	HEATING	7,400	611,346	---	0	91.2	0.23	37.6	140/105.8	30% PPG	9.1	1	67 x 36	16.75	4 / 8	(1)
EC-3	MCQUAY	AH-3	EVAP COOLING	7,400	236,755	---	97/63	64.9	0.18	1.8	---	WATER	---	1	76 x 43	17.2	---	(1)(2)(3)(4)
PHC-4	MCQUAY 5WL0903B	AH-4	HEATING	12,900	948,933	---	0	81.2	0.2	70	140/111.5	30% PPG	5.7	2	85 x 24	28.33	3 / 9	(1)
EC-4	MCQUAY	AH-4	EVAP COOLING	12,900	412,209	---	97/63	64.9	0.19	3.2	--	WATER	---	1	94 x 56	29.7	---	(1)(2)(3)(4)

(1) ALL CAPACITIES AT 5,070 FEET ELEVATION.
(2) EVAPORATIVE AIR COOLER TO BE FURNISHED WITH ITS ASSOCIATED AIR HANDLER.
(3) EQUIPPED WITH THE FOLLOWING OPTIONS:
(A) AUTOMATIC DRAIN VALVE PLUS FREEZE PROTECTION KIT WITH THE FOLLOWING ITEMS:
(I) MOTORIZED DRAIN VALVE (COORDINATE WITH ATC)
(II) ADJUSTABLE 24 HOUR TIME
(III) OUTDOOR FREEZE PROTECTION THERMOSTAT AND INDOOR SOLENOID 3-WAY FILL VALVE.
(IV) MAINTAINS EMPTY RESEVOIR DURING FREEZING WEATHER.
(B) STAINLESS STEEL RESEVOIR AND CABINET.
(4) UNIT EQUIPPED WITH 1/40 HP SUMP PUMP. DIVISION 26 TO PROVIDE AND POWER 115V/1PH ELECTRICAL OUTLETS FOR PUMP CONNECTION.
(5) UNIT EQUIPPED WITH 1/6 HP SUMP PUMP. DIVISION 26 TO PROVIDE AND POWER 115V/1PH ELECTRICAL OUTLETS FOR PUMP CONNECTION.

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WELDING EXHAUST HOSE ASSEMBLY SCHEDULE

ID	MANUFACTURER AND MODEL NUMBER	LOCATION	AIRFLOW (CFM)	QUANTITY	PHYSICAL: HOSE DIAMETER (IN)	PHYSICAL: HOSE LENGTH (FT)	NOTES
WHA-1	CAR-MON 6M	WELDING LAB C107	600	15	6	10	(1)

(1) WELDING EXHAUST HOSE ASSEMBLY COMPLETE WITH INTEGRAL WELDING FUME RECEPTOR WITH SWIVEL HEAD AND CORROSION RESISTANT COLLECTOR SCREEN, WELDPROOF TYPE HOSE, AND HAND DAMPER WITH LOCKING QUADRANT.

PORTABLE AIR CLEANER SCHEDULE

ID	MANUFACTURER AND MODEL NUMBER	LOCATION	AIRFLOW RATE (CFM)	ARM LENGTH (FT)	ARM DIAMETER (IN)	FILTERS: PRE-FILTER EFFICIENCY (%)	FILTERS: FINAL FILTER EFFICIENCY (%)	ELECTRICAL: VOLT/PH/HZ	ELECTRICAL: MOTOR HP	PHYSICAL: LENGTH / WIDTH / HEIGHT (IN)	NOTES
PAC-1	CARMON CMX-124PA	WELDING LAB C107	1000	10	8	30%	95%	460/3/60	1.5	38/27/68	(1)
PAC-2	CARMON CMX-124PA	WELDING LAB C107	1000	10	8	30%	95%	460/3/60	1.5	38/27/68	(1)
PAC-3	CARMON CMX-124PA	WELDING LAB C107	1000	10	8	30%	95%	460/3/60	1.5	38/27/68	(1)

(1) UNIT EQUIPPED WITH BASE MOUNTED CASTERS FOR EASE OF MOVEMENT, ALUMINUM PRE-FILTER, 95% FINAL FILTER AND 15 FT POWER CORD.

ARTICULATED EXHAUST ARM ASSEMBLY SCHEDULE

ID	MANUFACTURER AND MODEL NUMBER	LOCATION	AIRFLOW (CFM)	PHYSICAL: HOSE DIAMETER (IN)	PHYSICAL: HOSE LENGTH (FT)	NOTES
AA-1	CAR-MON SERIES AT	CE & R LAB C121	900	8	15	(1)
AA-2	CAR-MON SERIES AT	CE & R LAB C121	900	8	15	(1)

(1) ARTICULATED EXHAUST ARM ASSEMBLY COMPLETE WITH HIGH TEMPERATURE HOSE RATED FOR (1000°F) OPERATING TEMPERATURE, MODEL RDS-7 DIESEL STACK ADAPTER, MODEL LFT-25 HOSE RETRACTOR AND POSITIONING POLE.

GAS FIRED RADIANT TUBE HEATER SCHEDULE

ID	MANUFACTURER AND MODEL NUMBER	LOCATION	TYPE	INPUT CAPACITY (MBH)	LENGTH (FT)	FUEL TYPE	ELECTRICAL: VOLT/PH/HZ	ELECTRICAL: MAX CURRENT (AMPS)	PHYSICAL: EXHAUST FLUE Ø (IN)	PHYSICAL: WEIGHT (LBS)	PHYSICAL: MIN. MOUNTING HEIGHT (FT)	NOTES
IH-1	AMBIRAD VPLUS125	CONST. TECH LAB C103	TUBE	125	40	NAT. GAS	120/1/60	1.2	4	200	16	(1)(2)(3)(4)(5)(6)(7)
IH-2	AMBIRAD VPLUS125	CONST. TECH LAB C103	TUBE	125	40	NAT. GAS	120/1/60	1.2	4	200	16	(1)(2)(3)(4)(5)(6)(7)
IH-3	AMBIRAD VPLUS125	CONST. TECH LAB C103	TUBE	125	40	NAT. GAS	120/1/60	1.2	4	200	16	(1)(2)(3)(4)(5)(6)(7)
IH-4	AMBIRAD VPLUS125	WELDING LAB C107	TUBE	125	40	NAT. GAS	120/1/60	1.2	4	200	16	(1)(2)(3)(4)(5)(6)(7)
IH-5	AMBIRAD VPLUS125	WELDING LAB C107	TUBE	125	40	NAT. GAS	120/1/60	1.2	4	200	16	(1)(2)(3)(4)(5)(6)(7)
IH-6	AMBIRAD VPLUS125	WELDING LAB C107	TUBE	125	40	NAT. GAS	120/1/60	1.2	4	200	16	(1)(2)(3)(4)(5)(6)(7)
IH-7	AMBIRAD VPLUS150	CE & R LAB C121	TUBE	150	50	NAT. GAS	120/1/60	1.2	4	265	18	(1)(2)(3)(4)(5)(6)(7)
IH-8	AMBIRAD VPLUS150	CE & R LAB C121	TUBE	150	40	NAT. GAS	120/1/60	1.2	4	200	18	(1)(2)(3)(4)(5)(6)(7)
IH-9	AMBIRAD VPLUS150	CE & R LAB C121	TUBE	150	40	NAT. GAS	120/1/60	1.2	4	200	18	(1)(2)(3)(4)(5)(6)(7)

(1) MOUNT PER MANUFACTURER'S RECOMMENDATIONS AS HIGH AS POSSIBLE.
(2) GAS SUPPLY PRESSURE SHALL BE 5-10 INCH W.C.
(3) UNIT COMPLETE WITH GAS VALVE, ALUMINUM REFLECTORS, FACTORY GAS COCK, REFLECTOR END CAPS, HOT SURFACE IGNITION, AND ALL ACCESSORIES REQUIRED FOR MOUNTING.
(4) CAPACITY AT SEA LEVEL.
(5) MINIMUM MOUNTING HEIGHT SHALL BE 16'-0" (IH-1 THRU 6) AND 18'-0" (IH-7, 8, 9)
(6) INSTALL PER MANUFACTURER'S RECOMMENDED CLEARANCES: 6" ABOVE REFLECTOR, 20" ABOVE BURNER, 74" BENEATH TUBES, 39" SIDES, 18" FROM END OF TUBE.
(7) CONTROL: ATC.

SPLIT AIR CONDITIONING UNIT SCHEDULE

ID	MANUFACTURER	LOCATION	COOLING CAPACITY RANGE (MBH)	INDOOR UNIT: MODEL	INDOOR UNIT: CFM	INDOOR UNIT: DIMENSIONS WxDxH (IN)	INDOOR UNIT: WEIGHT (LBS)	INDOOR UNIT: MCA (1) (AMPS)	INDOOR UNIT: MOCP (AMPS)	INDOOR UNIT: VOLT	INDOOR UNIT: PHASE	INDOOR UNIT: HZ.	OUTDOOR UNIT: MODEL	OUTDOOR UNIT: WEIGHT (LBS)	OUTDOOR UNIT: DIMENSIONS WxDxH (IN)	OUTDOOR UNIT: MCA (1) (AMPS)	OUTDOOR UNIT: MOCP (AMPS)	OUTDOOR UNIT: VOLT	OUTDOOR UNIT: PHASE	OUTDOOR UNIT: HZ.	EFFICIENCY SEER	REFRIGERANT	NOTES
AC-1, CU-1	FUJITSU 18CL	ELECTRICAL A121	19.0-5.5	ASU18CL	412-218	31x9x11	20	1	15	208	1	60	AOU18CL	88	34x12x23	16	20	208	1	60	19	R410A	(1)(2)(3)(4)(5)(6)(7)
AC-2, CU-2	FUJITSU 24CL1	MAIN ELECTRICAL C109	24.0-3.1	ASU24CL1	659-365	39x9x13	31	1	15	208	1	60	AOU24CL1	88	34x12x24	10.5	20	208	1	60	17.5	R410A	(1)(2)(3)(4)(5)(6)(7)
AC-3, CU-3	FUJITSU 36CLX1	IT LAB A209	34.1-9.9	ASU36CLX	706-365	40x9x13	31	1	15	208	1	60	AOU36CLX	137	36x13x33	22	30	208	1	60	15	R410A	(1)(2)(3)(4)(5)(6)(7)
AC-4, CU-4	FUJITSU 36CLX1	SERVER / IT STORAGE A210	34.1-9.9	ASU36CLX	706-365	40x9x13	31	1	15	208	1	60	AOU36CLX	137	36x13x33	22	30	208	1	60	15	R410A	(1)(2)(3)(4)(5)(6)(7)
AC-5, CU-5	FUJITSU 36CLX1	IT WORKROOM C204	34.1-9.9	ASU36CLX	706-365	40x9x13	31	1	15	208	1	60	AOU36CLX	137	36x13x33	22	30	208	1	60	15	R410A	(1)(2)(3)(4)(5)(6)(7)
AC-CU-6	FUJITSU 12RLS	ELEV. EQ. B117	14.5-3.8	ASU12RLS	430-177	31x9x12	24	1	15	208	1	60	AOU12RLS	88	31x12x24	15	20	208	1	60	13.7	R410A	(1)(2)(3)(4)(5)(6)(7)

(1) SINGLE POINT POWER CONNECTION FOR INDOOR AND OUTDOOR UNITS. ALTERNATIVE MANUFACTURER'S MAY DIFFER. DISCONNECT BY DIV. 26.
(2) SYSTEM COMPLETE WITH FACTORY SUPPLIED, FIELD INSTALLED OPTIONS AS FOLLOWS: LOW AMBIENT TO 0°F; WINTER START CONTROL; LIQUID LINE SOLENOID VALVE, CRANK CASE HEATER; SNOWICE STAND; WIRED T-STAT WITH ON/OFF COOL; TXV AND ROOM SETPOINT TEMP OPTIONS; INTEGRAL CONDENSATE DRAIN PUMP.
(3) ELECTRICAL: COMPLETE WITH INTEGRAL STARTER. DISCONNECT BY DIV. 26. (QTY (2). 1 EA. FOR INDOOR AND OUTDOOR UNIT)
(4) MAX OUTDOOR SOUND LEVEL 56dbA.
(5) REFRIGERANT LINE SIZED IN ACCORDANCE WITH MANUFACTURER'S SUGGESTED LINE SIZE.
(6) EQUIPPED WITH VARIABLE SPEED INVERTER DRIVEN COMPRESSOR PROVIDING THE RANGE OF CAPACITIES NOTED. MODULATING COMPRESSOR SPEED TO REDUCE CYCLING.

UNIT HEATER SCHEDULE

ID	MANUFACTURER AND MODEL NUMBER	LOCATION	DISCHARGE	AIR: AIRFLOW RATE (CFM)	AIR: CAPACITY (BTU/H)	FLUID: ENTERING / LEAVING TEMP. (°F)	FLUID: FLOW RATE (GPM)	FLUID: ENTERING/ LEAVING TEMP. (°F)	FLUID: WORKING FLUID	FLUID: HEAD LOSS (FT)	ELECTRICAL: MOTOR SIZE (HP)	ELECTRICAL: MOTOR SPEED (RPM)	ELECTRICAL: AMPS	ELECTRICAL: VOLT/PH/HZ	PHYSICAL: CABINET DIMENSIONS LxWxH (IN)	PHYSICAL: WEIGHT (LBS)	NOTES
UH-1	RITTLING RH-63	WAREHOUSING LAB C101	HORIZONTAL	1,120	26,550	60/82.3	4.7	150/130	WATER	0.5	1/10	1550	1.3	115/1/60	26/13/19	61	(1)(2)
UH-2	RITTLING RH-63	WAREHOUSING LAB C101	HORIZONTAL	1,120	26,550	60/82.3	4.7	150/130	WATER	0.5	1/10	1550	1.3	115/1/60	26/13/19	61	(1)(2)
UH-3	RITTLING RH-33	BOILER C203	HORIZONTAL	630	15,750	60/87.2	2.5	150/130	WATER	0.12	1/15	1550	0.72	115/1/60	20/13/19	48	(1)(2)

(1) CAPACITIES BASED ON 60 DEGREE EAT AT 5,070 FEET ELEVATION.
(2) EQUIPPED WITH FACTORY MOUNTED STARTER AND DISCONNECT.

ROOF HOOD SCHEDULE

ID	MANUFACTURER AND MODEL NUMBER	LOCATION	SERVICE	TYPE	AIR: AIR FLOW RATE (CFM)	AIR: MAX. A.P.D. (IN H20)	SIZE: HOOD DIMENSIONS L x W x H (IN)	SIZE: THROAT DIMENSIONS (IN)	SIZE: THROAT AREA (SQ. FT)	WEIGHT (LBS)	NOTES
RH-1	GREENHECK FGI	ROOF	BOILER ROOM VENTILATION	GRAVITY INTAKE	1640	0.044	42 x 48 x 19	26 x 26	4.69	100	(1)(2)

(1) ALL CAPACITIES BASED AT 5,070 FEET ELEVATION.
(2) DUCTED GRAVITY INTAKE HOOD. COMPLETE WITH INSECT SCREEN, PREFABRICATED ROOF CURB, AND MOTORIZED BACKDRAFT DAMPER. DAMPER TO BE INTERLOCKED TO OPEN WHEN EF-15 ENERGIZES.

FAN COIL SCHEDULE

ID	MANUFACTURER AND MODEL NUMBER	LOCATION	TYPE	AIR: MAXIMUM AIRFLOW RATE (CFM)	AIR: HEATING CAPACITY (BTU/HR)	AIR: EXTERNAL STATIC PRESSURE (IN. WATER)	FLUID: ENTERING / LEAVING TEMP. (°F)	FLUID: FLOW RATE (GPM)	FLUID: ENTERING/ LEAVING TEMP. (°F)	FLUID: WORKING FLUID	FLUID: HEAD LOSS (FT)	ELECTRICAL: MCA	ELECTRICAL: MOP	ELECTRICAL: MOTOR SIZE (HP)	ELECTRICAL: VOLT/PH/HZ	PHYSICAL: LENGTH/ WIDTH/ HEIGHT (IN)	PHYSICAL: WEIGHT (LBS)	NOTES
FC-1	WILLIAMS HP-008	MEDICAL ASSIST CLASS A101	DUCTED	580	16,385	0.48	60/90.6	1.6	150/130	WATER	1.8	4.0	15	1/4	120/1/60	32/26/17	140	(1)(2)(3)
FC-2	WILLIAMS HP-018	CONSTRUCTION TECH LAB C103	DUCTED	1,140	35,116	0.47	60/93.5	3.5	150/129	WATER	2.1	8.0	15	1/4	120/1/60	32/50/17	260	(1)(2)(3)

(1) CAPACITIES BASED ON 5,070 FEET ELEVATION AND 60 DEGREE ENTERING AIR TEMPERATURE.
(2) EQUIPPED WITH FACTORY MOUNTED STARTER, DISCONNECT, AND ALL ACCESSORIES REQUIRED FOR CEILING MOUNTING.
(3) CONTROL: WALL MOUNTED THERMOSTAT.

HOT WATER CABINET UNIT HEATER SCHEDULE

ID	MANUFACTURER AND MODEL NUMBER	LOCATION	MOUNTING ARRANGEMENT	AIR: AIRFLOW RATE (CFM)	AIR: CAPACITY (BTU/H)	FLUID: ENTERING / LEAVING TEMP. (°F)	FLUID: FLOW RATE (GPM)	FLUID: ENTERING/ LEAVING TEMP. (°F)	FLUID: WORKING FLUID	FLUID: HEAD LOSS (FT)	ELECTRICAL: MOTOR SIZE (HP)	ELECTRICAL: MOTOR SPEED (RPM)	ELECTRICAL: AMPS	ELECTRICAL: POWER INPUT (W)	ELECTRICAL: VOLT/PH/HZ	PHYSICAL: CABINET DIMENSIONS LxWxH (IN)	PHYSICAL: WEIGHT (LBS)	NOTES
CUH-1	RITTLING RC-390-02	FIRE RISER A130	CEILING SURFACE MOUNT	275	7160	60/88	0.5	150/130	WATER	0.5	1/40	1080	0.55	60	120/1/60	38/27/10	85	(1)(2)(3)
CUH-2	RITTLING RFRC-420-02	1ST LVL CORRIDOR	CEILING RECESSED	275	7160	60/88	0.5	150/130	WATER	0.5	1/40	1080	0.55	60	120/1/60	38/27/10	85	(1)(2)(3)

(1) CAPACITIES BASED ON 5,070 FEET ELEVATION AND 60 DEGREE ENTERING AIR TEMPERATURE.
(2) EQUIPPED WITH FACTORY MOUNTED STARTER, DISCONNECT, AND ALL ACCESSORIES REQUIRED FOR CEILING MOUNTING.
(3) CONTROL: WALL MOUNTED THERMOSTAT.

BOILER SCHEDULE

ID	MANUFACTURER AND MODEL NUMBER	LOCATION	TYPE	DRAFT TYPE	FUEL TYPE	INPUT LOAD (MBH)	OUTPUT LOAD MBH	FLUID: FLOW RATE (GPM)	FLUID: ENTERING/ LEAVING TEMP. (°F)	FLUID: WORKING FLUID	FLUID: HEAD LOSS (FT)	ELECTRICAL: VOLT/PH/HZ	ELECTRICAL: FLA	ELECTRICAL: CONTROL CIRCUIT	PHYSICAL: STACK DIAMETER (IN)	PHYSICAL: WIDTH/ DEPTH/ HEIGHT (IN)	WEIGHT (LBS)	NOTES
B-1	AERCO BMK-3.0LN	BOILER C203	(2)	(2)	NAT. GAS	3000	2470.5	165	140/110	WATER	5	460/3/60	5	(4)	8	28/64/79	2580	(1)(2)(3)(4)(5)(6)(7)(8)
B-2	AERCO BMK-3.0LN	BOILER C203	(2)	(2)	NAT. GAS	3000	2470.5	165	140/110	WATER	5	460/3/60	5	(4)	8	28/64/79	2580	(1)(2)(3)(4)(5)(6)(7)(8)

(1) CAPACITY BASED ON 5,070 FEET ELEVATION.
(2) FORCED DRAFT NATURAL GAS, HIGH EFFICIENCY CONDENSING
(3) BOILERS SHALL BE EQUIPPED WITH A RELAY TO SHUT DOWN THE BOILER IN THE EVENT THAT THE ATC EMERGENCY STOP PUSH BUTTON IS ACTIVATED. COORDINATE WITH ATC CONTRACTOR.
(4) EQUIPPED WITH 4-20 mA DDC WATER TEMPERATURE CONTROL AND HIGH LIMIT CONTROL. PROVIDE BOILER COMMUNICATIONS MODULE. (COORDINATE CONTACTS AND RELAYS WITH CONTROLS CONTRACTOR). TEMPERATURE CONTROL SHALL BE ACCURATE TO WITHIN 5-DEGREES OF SETPOINT, 20:1 TURNDOWN RATIO.
(5) COMPLETE WITH ALARM BELLS AND HORNS, UL-CONTROL SYSTEM; EQUIPPED FOR LEAD/LAG SYSTEM WITH OUTDOOR AIR RESET. SEE CONTROL SEQUENCE.
(6) EQUIPPED WITH ASME 75 PSI RATED BOILER RELIEF VALVE & HIGH LIMIT CONTROL.
(7) BOILER SHALL BE EQUIPPED WITH FACTORY FURNISHED 2-PSIG TO OPERATING PRESSURE GAS PRESSURE REGULATOR AND GAS TRAIN.
(8) LOW Nox LESS THAN 20 PPM EMISSIONS AT ALL FIRINGS.

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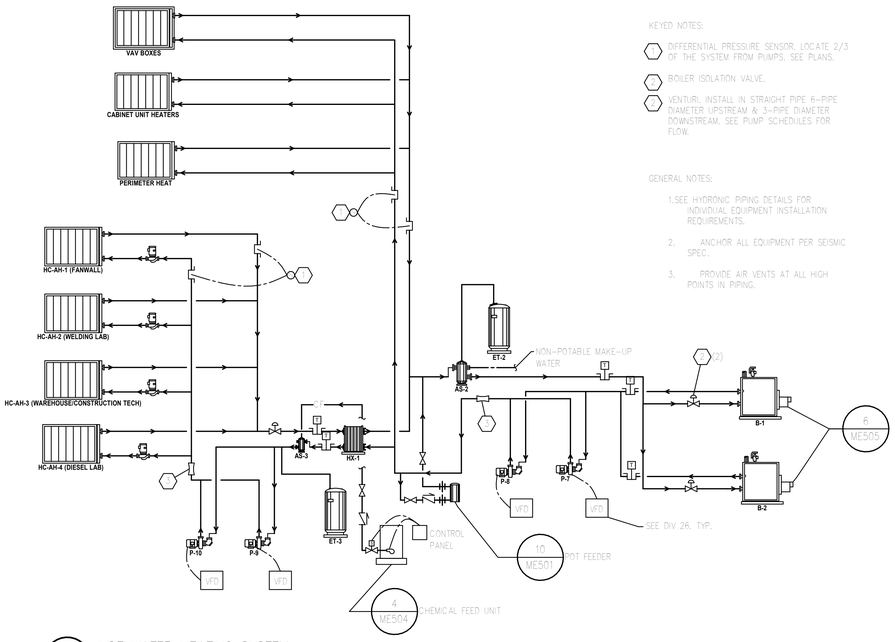


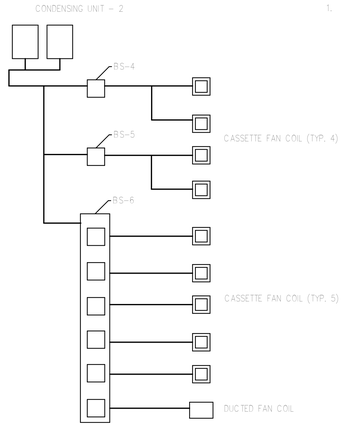
KEYED NOTES:

1. DIFFERENTIAL PRESSURE SENSOR. LOCATE 2/3 OF THE SYSTEM FROM PUMPS. SEE PLANS.
2. BOILER ISOLATION VALVE.
3. VENTURI. INSTALL IN STRAIGHT PIPE 6-PIPE DIAMETER UPSTREAM & 3-PIPE DIAMETER DOWNSTREAM. SEE PUMP SCHEDULES FOR FLOW.

GENERAL NOTES:

1. SEE HYDRONIC PIPING DETAILS FOR INDIVIDUAL EQUIPMENT INSTALLATION REQUIREMENTS.
2. ANCHOR ALL EQUIPMENT PER SEISMIC SPEC.
3. PROVIDE AIR VENTS AT ALL HIGH POINTS IN PIPING.

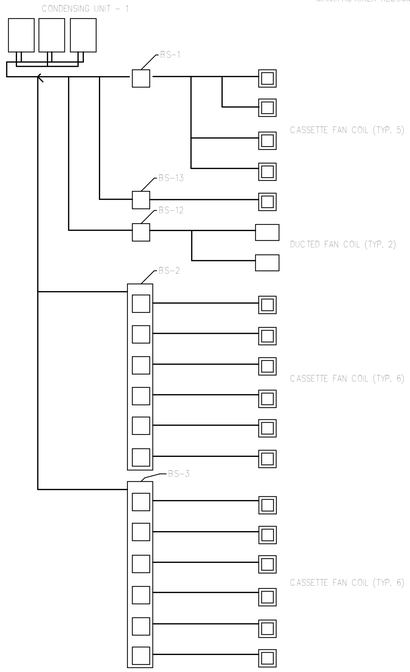
MODEL HOT WATER HEATING SYSTEM
NO SCALE
DETAIL



GENERAL NOTES:

1. REFRIGERANT LINES TO BE SIZED PER MANUFACTURER RECOMMENDATIONS.

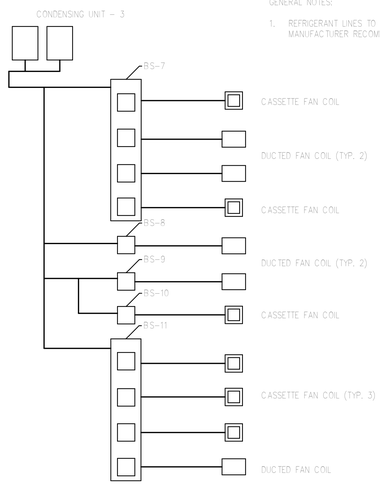
MODEL HP-2 VRV PIPING SCHEMATIC
NO SCALE
DETAIL



GENERAL NOTES:

1. REFRIGERANT LINES TO BE SIZED PER MANUFACTURER RECOMMENDATIONS.

MODEL HP-1 VRV PIPING SCHEMATIC
NO SCALE
DETAIL



GENERAL NOTES:

1. REFRIGERANT LINES TO BE SIZED PER MANUFACTURER RECOMMENDATIONS.

MODEL HP-3 VRV PIPING SCHEMATIC
NO SCALE
DETAIL

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project:
TOOELE APPLIED TECHNOLOGY COLLEGE - NEW BUILDING

88 South Tooele Blvd
Tooele, UT 84074

project#: 11.0420
date: 1/20/11

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MECHANICAL SCHEMATIC DIAGRAMS

sheet:

ME605

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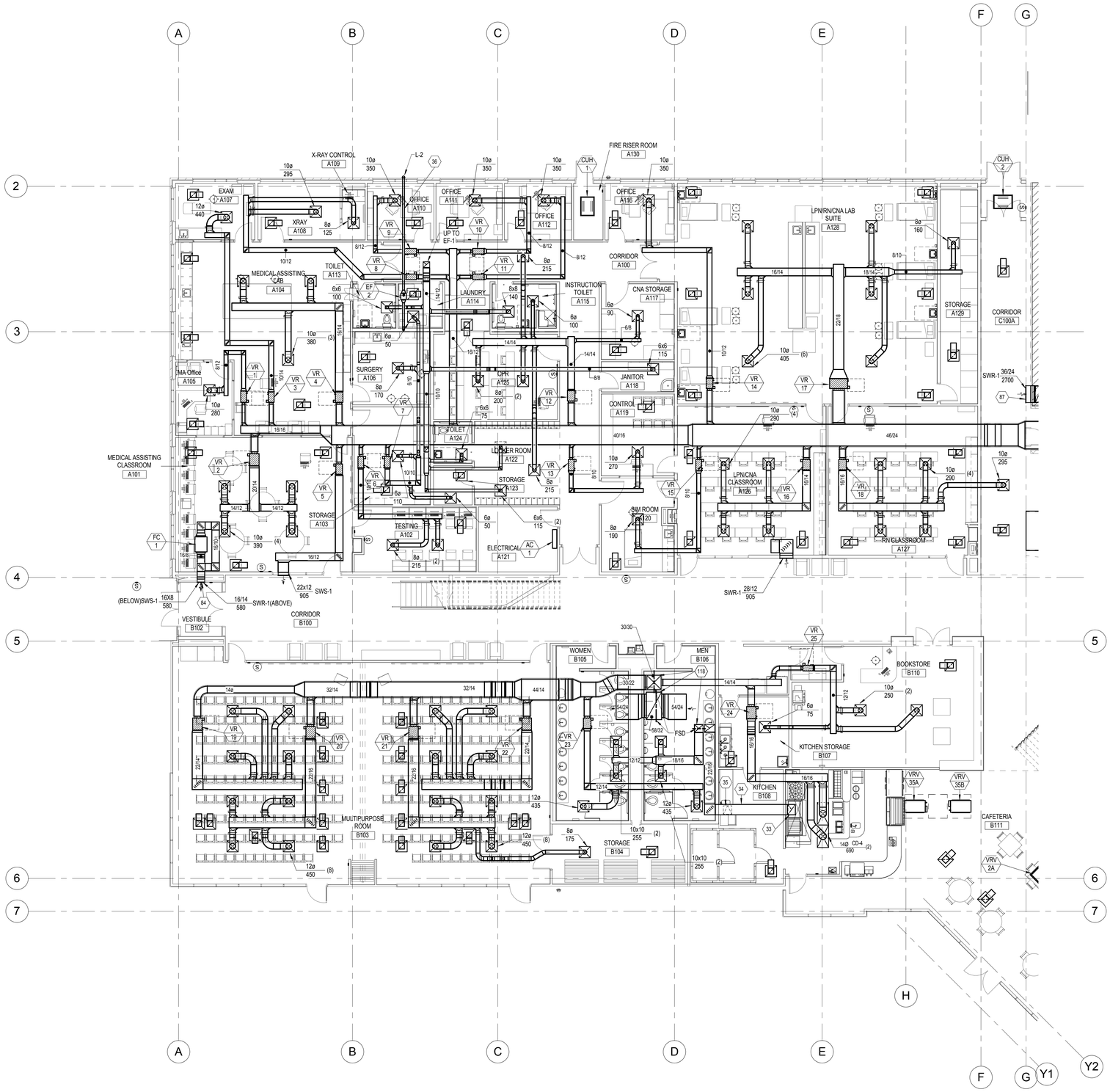


1 Lvl 1 Mechanical Plan 1
SCALE: 1/8" = 1'-0"

MH111 GENERAL SHEET NOTES

1 GREASE DUCT TEST: ALL DUCT SERVING TYPE 1 EXHAUST HOODS SHALL BE LEAK TESTED IN THE PRESENCE OF THE CODE OFFICIAL. TESTING SHALL BE CONDUCTED PRIOR TO WRAPPING OR CONCEALING THE DUCTWORK. THE LEAK TEST SHALL BE A LIGHT TEST IN ACCORDANCE WITH THE 2009 IMC SECTION 506.3.2.5. THE LEAK TEST SHALL BE PERFORMED ON THE ENTIRE DUCT SYSTEM, INCLUDING THE HOOD TO DUCT CONNECTION.

SHEET KEYNOTES

33 DUCT DOWN TO TYPE 1 KITCHEN HOOD EXHAUST CONNECTION. BALANCE EXHAUST AIR TO 1,725 CFM (APPROXIMATE). COORDINATE ACTUAL SIZE AND EXHAUST AIRFLOW RATE WITH KITCHEN HOOD SUPPLIER.

34 TYPE 1 EXHAUST DUCT TO BE 16 GA. WELDED CONSTRUCTION. ALL JOINTS SHALL BE SMOOTH, ACCESSIBLE FOR INSPECTIONS & WITHOUT GREASE TRAPS. WRAP DUCT WITH TWO LAYERS OF 1-1/2" THICK FIRE RESISTIVE DUCT WRAP - 2 HOUR RATING. PROVIDE 18" MINIMUM CLEARANCE TO NON-COMBUSTIBLE CONSTRUCTION PER 2009 IMC SECTION 506.3.10.1. SLOPE DUCT 2% MINIMUM BACK TOWARD HOOD. MINIMUM VELOCITY IS 500 FPM IN ACCORDANCE WITH 2009 IMC SECTION 506.3.4. PRIOR TO WRAPPING, THE GREASE DUCT SHALL BE INSPECTED AND TESTED IN ACCORDANCE WITH THE SPECIFICATIONS AND GENERAL NOTES (THIS SHEET).

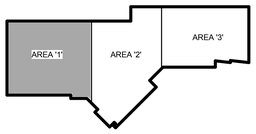
35 GREASE DUCT CLEANOUT. CLEANOUT SHALL BE LOCATED ON THE SIDE OF THE DUCT. (SHOWN ON BOTTOM FOR CLARITY.) CLEAN OUT DOOR SHALL BE NOT LESS THAN 1.5" ABOVE THE BOTTOM OF THE DUCT AND NOT LESS THAN 1" BELOW THE TOP. MINIMUM OPENING DIMENSIONS 12" ON EACH SIDE. INSTALL CLEANOUT ACCESS DOORS IN ACCORDANCE WITH 2009 IMC SECTION 506.3.8, 506.3.9 & 506.3.11.

36 CLOTHES DRYER EXHAUST DUCT. EACH VERTICAL RISER SHALL BE PROVIDED WITH A MEANS FOR CLEANOUT. DUCT SHALL NOT BE CONNECTED OR INSTALLED WITH SHEET METAL SCREWS OR OTHER FASTENERS THAT WILL OBSTRUCT EXHAUST FLOW. THE DUCT SHALL HAVE A SMOOTH INTERIOR FINISH WITH THE MALE END OF THE DUCT AT OVERLAPPED DUCT JOINTS EXTENDING IN THE DIRECTION OF AIRFLOW IN ACCORDANCE WITH 2009 IMC SECTION 504. PROVIDE DUCT SUPPORTS EVERY 4 FT.

84 THE SIDEWALL SUPPLY GRILLE SHALL BE INSTALLED DIRECTLY BELOW THE SIDEWALL RETURN GRILLE. INSTALL GRILLES CENTERED IN THE VESTIBULE WALL AS SHOWN.

87 MOUNT SIDEWALL RETURN GRILLE AT 12" AFF AND MATCH PENETRATION IN TILT UP PANEL. SEE LEVEL 2 MECHANICAL PLAN FOR RETURN DUCT CONTINUATION.

118 COMBINATION FIRE/SMOKE DAMPER INTO SHAFT. 1/4 SCALE SHOP DRAWINGS, AS SPECIFIED IN THE SPECIFICIATIONS, SHALL DETAIL SERVICE CLEARANCES AS REQUIRED BY THE SPECIFIC MANUFACTURER.



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LEVEL 1 MECHANICAL PLAN 1

sheet:

MH111

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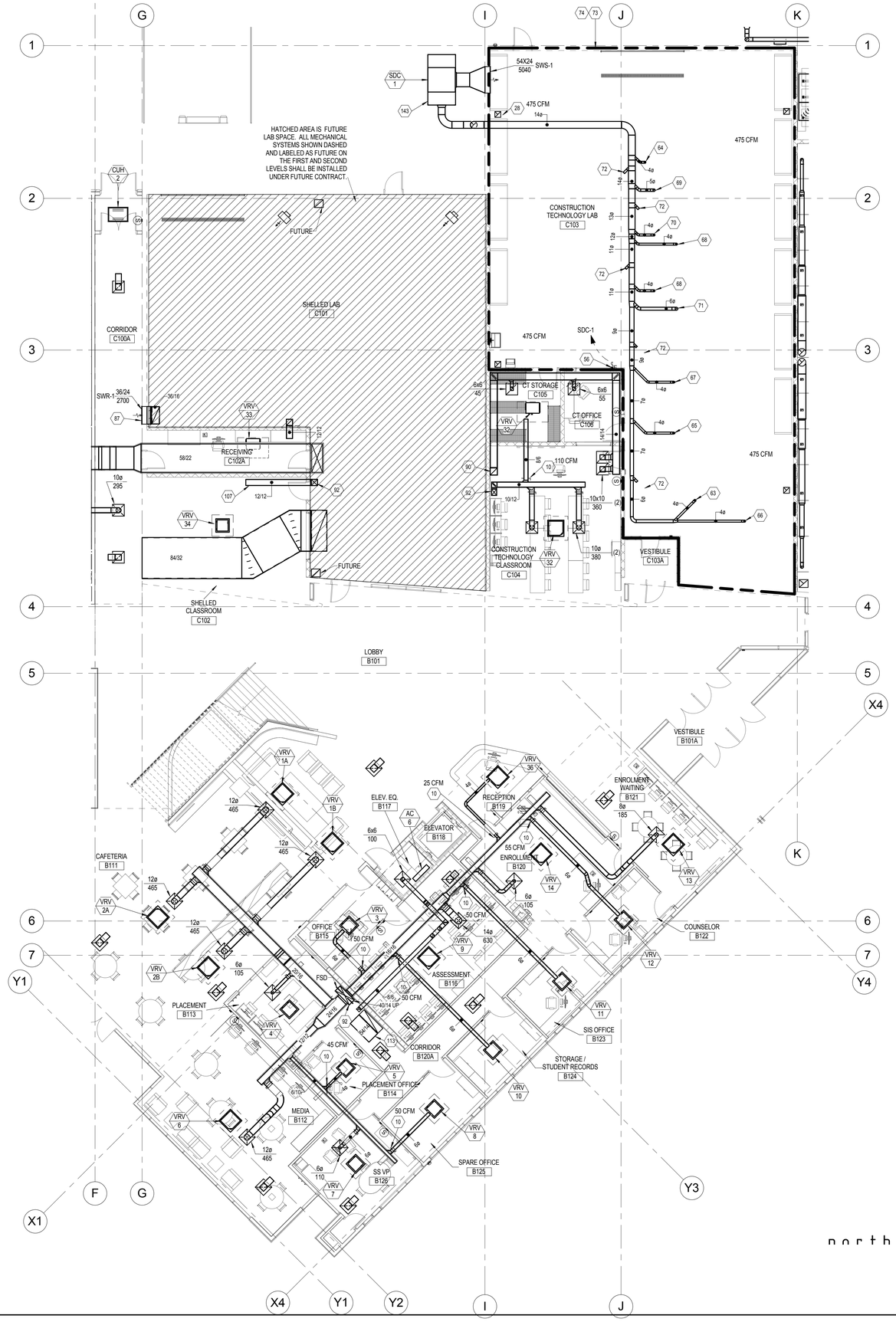

1 Lvl 1 Mechanical Plan 2
SCALE: 1/8" = 1'-0"

SHEET KEYNOTES

10 BALANCE VENTILATION TO AIRFLOW NOTED.

28 EXHAUST DUCT DOWN TO 12" AFF. DUCT SHALL BE OPEN ON THE BOTTOM WITH BIRD SCREEN INSTALLED. PROVIDE BALANCING DAMPER AND BALANCE TO AIRFLOW NOTED.

56 WALL MOUNTED SWITCH TO CONTROL THE EXHAUST FAN NOTED. CONTRACTOR SHALL PROVIDE PERMANENT LABELING OF SWITCH IDENTIFYING WHAT EQUIPMENT IT CONTROLS. COORDINATE SWITCH LOCATION WITH OWNER.

63 BELT/DISC SANDER. CONNECT TO INTEGRAL 4" DIA EXHAUST PORT WITH 4" EXHAUST DUCT AND BALANCE TO 400 CFM.

64 TABLE SAW. CONNECT TO INTEGRAL 4" DIA EXHAUST PORT WITH 4" EXHAUST DUCT AND BALANCE TO 400 CFM.

65 BANDSAW. CONNECT TO INTEGRAL 4" DIA EXHAUST PORT WITH 4" EXHAUST DUCT AND BALANCE TO 400 CFM.

66 PANEL SAW. CONNECT TO INTEGRAL 4" DIA EXHAUST PORT WITH 4" EXHAUST DUCT AND BALANCE TO 400 CFM.

67 OSCILLATING DRUM SANDER. CONNECT TO INTEGRAL 4" EXHAUST PORT WITH 4" FLEXIBLE HOSE. FLEXIBLE HOSE SHALL BE NO LONGER THAN 3 FT AND SHALL TRANSITION TO 4" DIA DUCT. BALANCE TO 400 CFM.

68 SHAPER/PLANER. CONNECT TO INTEGRAL 4" DIA EXHAUST CONNECTION WITH 4" EXHAUST DUCT AND BALANCE TO 400 CFM.

69 RADIAL ARM SAW. CONTRACTOR TO FIELD FABRICATE EXHAUST HOOD FOR SAWDUST CAPTURE. BALANCE TO 500 CFM. SEE DETAIL.

70 JOINTER. CONNECT TO INTEGRAL 4" DIA EXHAUST CONNECTION WITH 4" EXHAUST DUCT AND BALANCE TO 400 CFM.

71 WOOD LATHE. CONTRACTOR TO FIELD FABRICATE EXHAUST HOOD FOR SAWDUST CAPTURE. BALANCE TO 880 CFM. SEE DETAIL.

72 PROVIDE 4" DIA EXHAUST DUCT TAKEOFF FOR FUTURE CONNECTION.

73 LOCATION OF WOODWORKING EQUIPMENT AND SAWDUST COLLECTION EXHAUST DUCT ARE NOT FINALIZED AND ARE APPROXIMATIONS. THE CONTRACTOR SHALL COORDINATE EXACT EQUIPMENT LOCATIONS WITH OWNER AND SHALL SUBMIT SHOP DRAWINGS OF THE SAWDUST COLLECTION SYSTEM FOR APPROVAL. MINIMUM DUCT VELOCITY FOR SAWDUST COLLECTION SYSTEM SHALL BE 4000 FPM.

74 CONTRACTOR TO PROVIDE A BLAST GATE IN THE EXHAUST DUCT NEAR EACH PIECE OF EQUIPMENT FOR ISOLATION. DUCT CLEANOUTS SHALL BE PROVIDED AT ALL DUCT RISERS.

87 MOUNT SIDEWALL RETURN GRILLE AT 12" AFF AND MATCH PENETRATION IN TILT UP PANEL. SEE LEVEL 2 MECHANICAL PLAN FOR RETURN DUCT CONTINUATION.

90 EXHAUST DUCT UP. SEE LEVEL 2 FOR CONTINUATION.

92 SUPPLY DUCT UP. SEE LEVEL 2 MECHANICAL PLAN FOR CONTINUATION.

107 CAP VENTILATION DUCT IN SHELL SPACE FOR FUTURE. DUCT SIZED FOR 570 CFM OA.

113 TR[illegible]

143 BID AL[illegible] ASSOCIATED WITH THE SAW DUST COLLECTION SYSTEM SHALL BE BID AS AN ALTERNATE.

1 BID ALT NO. 10: ALL ITEMS ASSOCIATED WITH THE CONTSTRUCTION TECHNOLOGY LAB SHALL BE BID AS AN ALTERNATE.

MH112 GENERAL SHEET NOTES

LICENSED PROFESSIONAL ENGINEER
No. 275661
RAYMOND D. VERNON
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LEVEL 1 MECHANICAL PLAN 2

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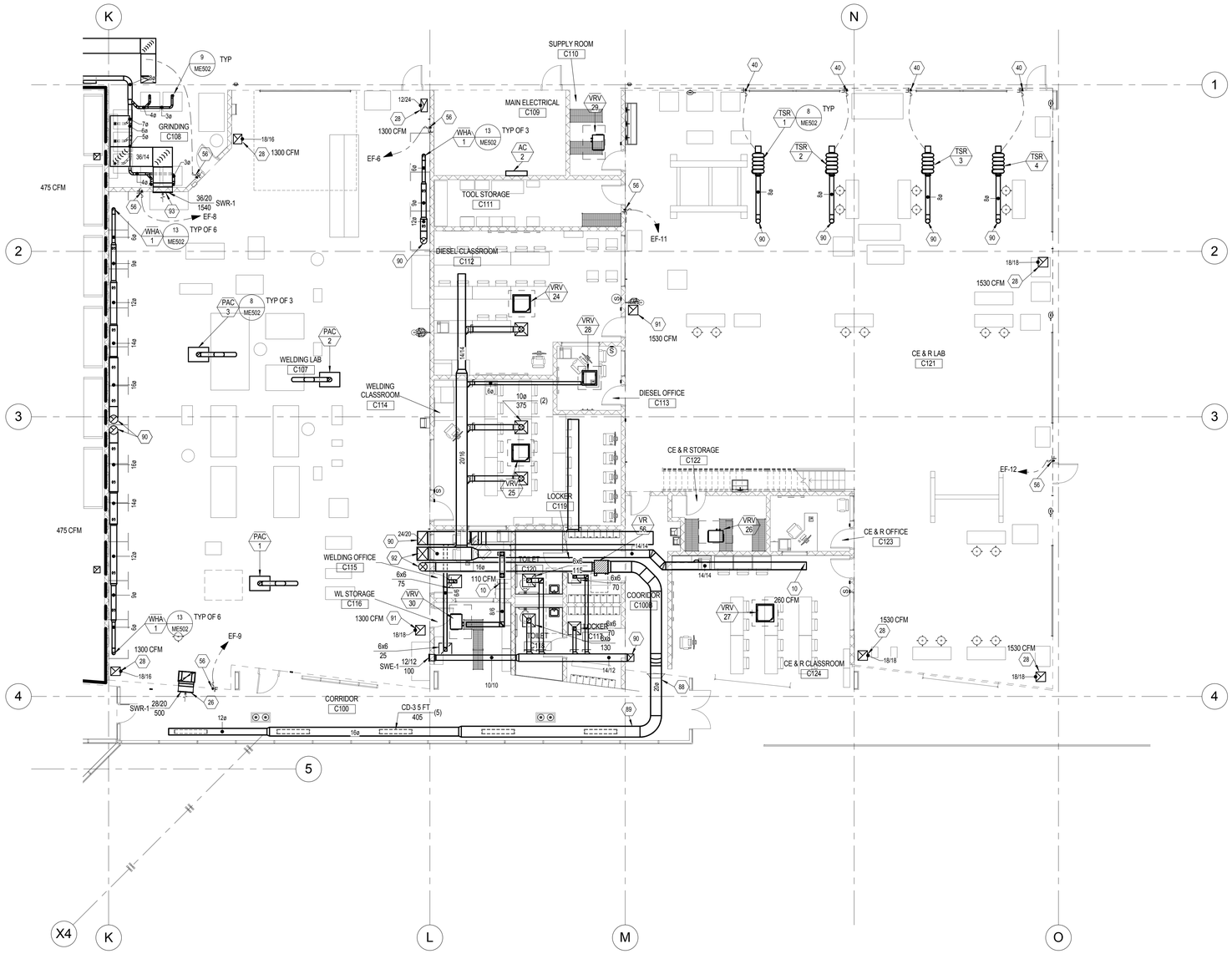
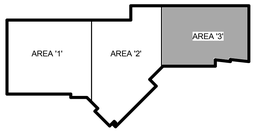


north



1 Lvl 1 Mechanical Plan 3
SCALE: 1/8" = 1'-0"

SHEET KEYNOTES

10 BALANCE VENTILATION TO AIRFLOW NOTED.

26 INSTALL SIDWALL RETURN GRILLE AT 12" AFF. COORDINATE EXACT LOCATION WITH PENETRATION OF TILT UP PANEL SHOWN ON ARCHITECTURAL PLAN.

28 EXHAUST DUCT DOWN TO 12" AFF. DUCT SHALL BE OPEN ON THE BOTTOM WITH BIRD SCREEN INSTALLED. PROVIDE BALANCING DAMPER AND BALANCE TO AIRFLOW NOTED.

40 WALL MOUNTED CONTROL FOR MOTORIZED EXHAUST TUBING STORAGE REEL. COORDINATE MOUNTING LOCATION WITH OWNER.

56 WALL MOUNTED SWITCH TO CONTROL THE EXHAUST FAN NOTED. CONTRACTOR SHALL PROVIDE PERMANENT LABELING OF SWITCH IDENTIFYING WHAT EQUIPMENT IT CONTROLS. COORDINATE SWITCH LOCATION WITH OWNER.

66 PANEL SAW. CONNECT TO INTEGRAL 4" DIA EXHAUST PORT WITH 4" EXHAUST DUCT AND BALANCE TO 400 CFM.

88 PROVIDE ESCUTCHEON AT EXPOSED WALL PENETRATION.

89 EXPOSED DUCTWORK SHALL BE UNPAINTED GALVANIZED AND SEALED TO MINIMIZE THE APPEARANCE OF SEALANT. NO MORE THAN A MINIMUM AMOUNT OF SEALANT WILL BE USED TO COMPLY WITH DUCT PRESSURIZATION REQUIREMENTS. LINE EXPOSED ROUND DUCT WITH SPIRECOUSTIC DUCT LINING.

90 EXHAUST DUCT UP. SEE LEVEL 2 FOR CONTINUATION.

91 EXHAUST DUCT DOWN TO APPROXIMATELY 10 FT AFF. DUCT SHALL BE OPEN ON THE BOTTOM WITH BIRD SCREEN INSTALLED. PROVIDE BALANCING DAMPER AND BALANCE TO AIRFLOW NOTED.

92 SUPPLY DUCT UP. SEE LEVEL 2 MECHANICAL PLAN FOR CONTINUATION.

93 SIDEWALL RETURN GRILLE TO PROVIDE MAKEUP AIR TO THE GRINDING ROOM. MOUNT AS HIGH AS POSSIBLE AND PROVIDE LINED DUCT SOUND ATTENUATINO.

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LEVEL 1 MECHANICAL PLAN 3

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MH113

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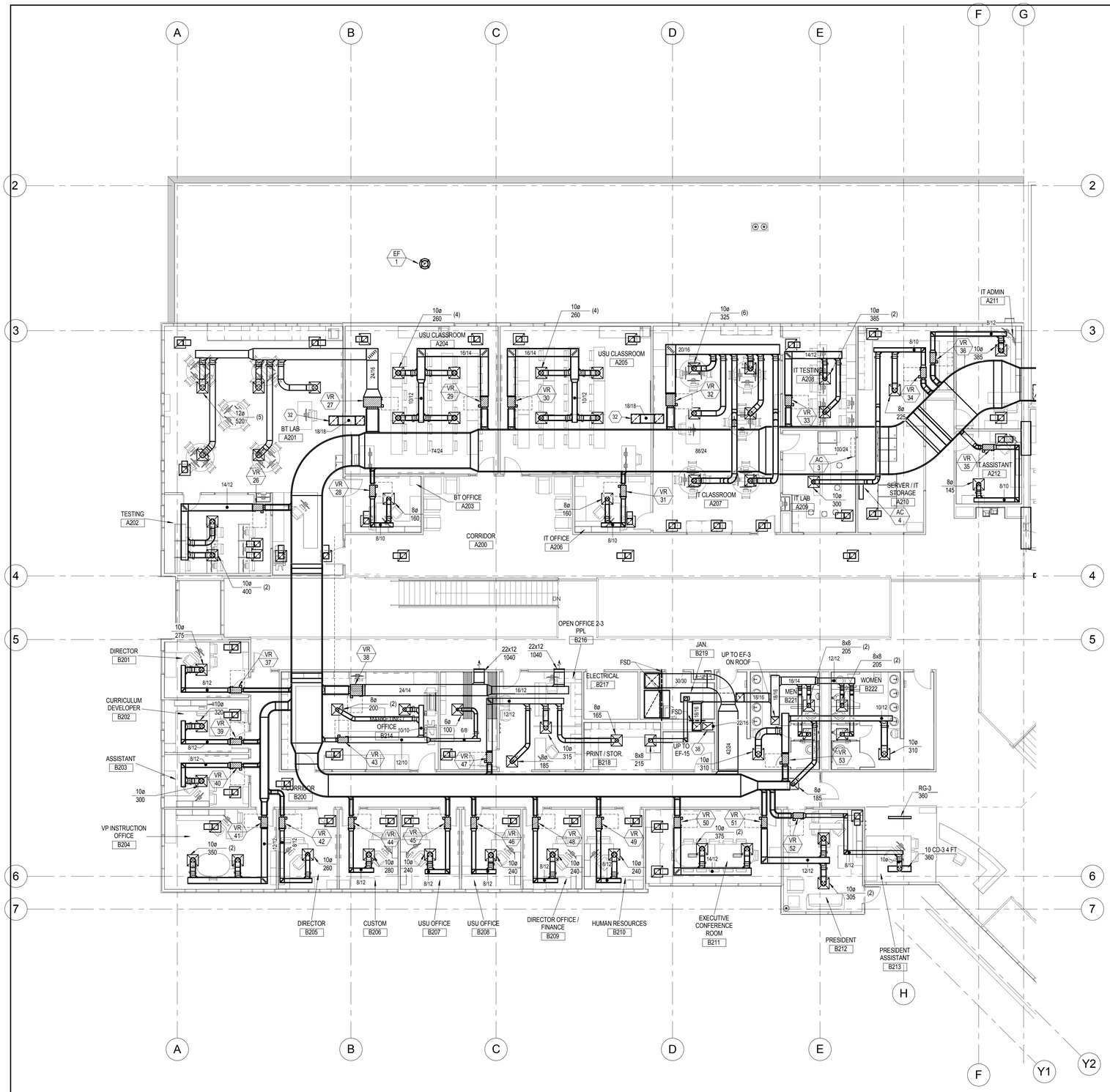
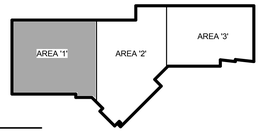


1 Lvl 2 Mechanical Plan 1
SCALE: 1/8" = 1'-0"

north



SHEET KEYNOTES

32 TRANSFER AIR SOUNDBOOT THROUGH WALL ABOVE CEILING. INSTALL PER DETAIL3/ME501. SIZE AS NOTED.

38 KITCHEN HOOD EXHAUST DOWN TO HOOD AND UP TO EXHAUST FAN ON ROOF.

LICENSED PROFESSIONAL ENGINEER
No. 275661
RAYMOND D. VERNON
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LEVEL 2 MECHANICAL PLAN 1

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MH121

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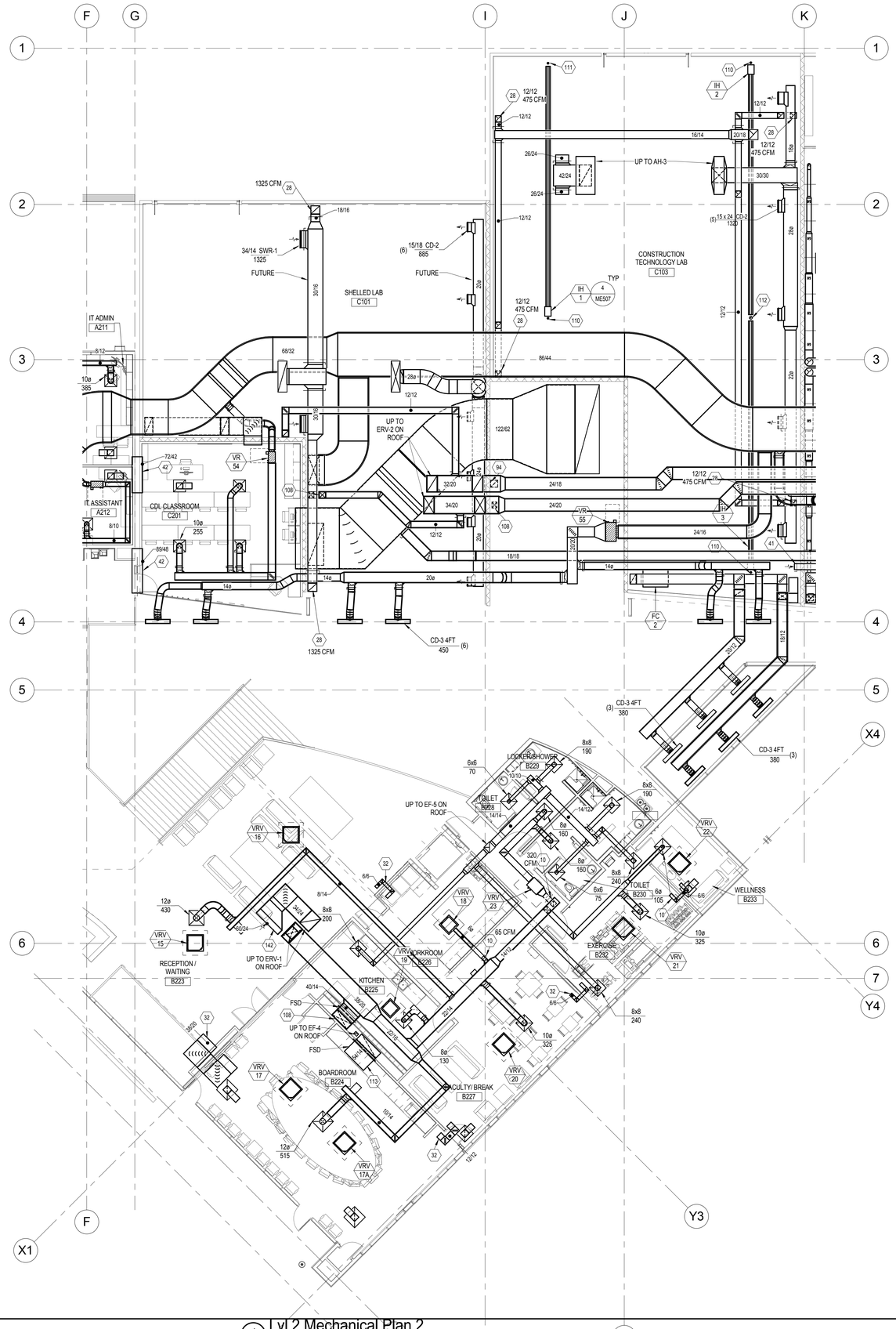

SHEET KEYNOTES

10 BALANCE VENTILATION TO AIRFLOW NOTED.

28 EXHAUST DUCT DOWN TO 12" AFF. DUCT SHALL BE OPEN ON THE BOTTOM WITH BIRD SCREEN INSTALLED. PROVIDE BALANCING DAMPER AND BALANCE TO AIRFLOW NOTED.

32 TRANSFER AIR SOUNDBOOT THROUGH WALL ABOVE CEILING. INSTALL PER DETAIL3/ME501. SIZE AS NOTED.

39 EXHAUST DUCT UP TO NEAR BOTTOM OF STRUCTURE. INSTALL BIRD SCREEN. PROVIDE BALANCING DAMPER AND BALANCE TO AIRFLOW NOTED.

41 BALANCE TO 300 CFM.

42 RETURN AIR OPENING IN WALL ABOVE CEILING. SIZE AS NOTED.

94 EXHAUST DUCT DOWN. SEE LEVEL 1 FOR CONTINUATION.

108 SUPPLY DUCT DOWN. SEE LEVEL 1 MECHANICAL PLAN FOR CONTINUATION.

110 PROVIDE 4" DIA AIR INTAKE UP THROUGH ROOF FOR GAS FIRED RADIANT TUBE HEATER. PROVIDE GOOSENECK FITTING ABOVE ROOF.

111 PROVIDE 4" DIA EXHAUST FLUE THROUGH ROOF FOR GAS FIRED RADIANT TUBE HEATER.

112 PROVIDE 6" DIA COMMON EXHAUST FLUE THROUGH ROOF FOR GAS FIRED RADIANT TUBE HEATERS.

113 TRANSFER AIR DUCT UP/DOWN IN SHAFT.

142 60X24 RETURN AIR SOUND BOOT. PROVIDE INTERNAL DUCT LINER FOR SOUND ATTENUATION.

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LEVEL 2 MECHANICAL PLAN 2

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MH122

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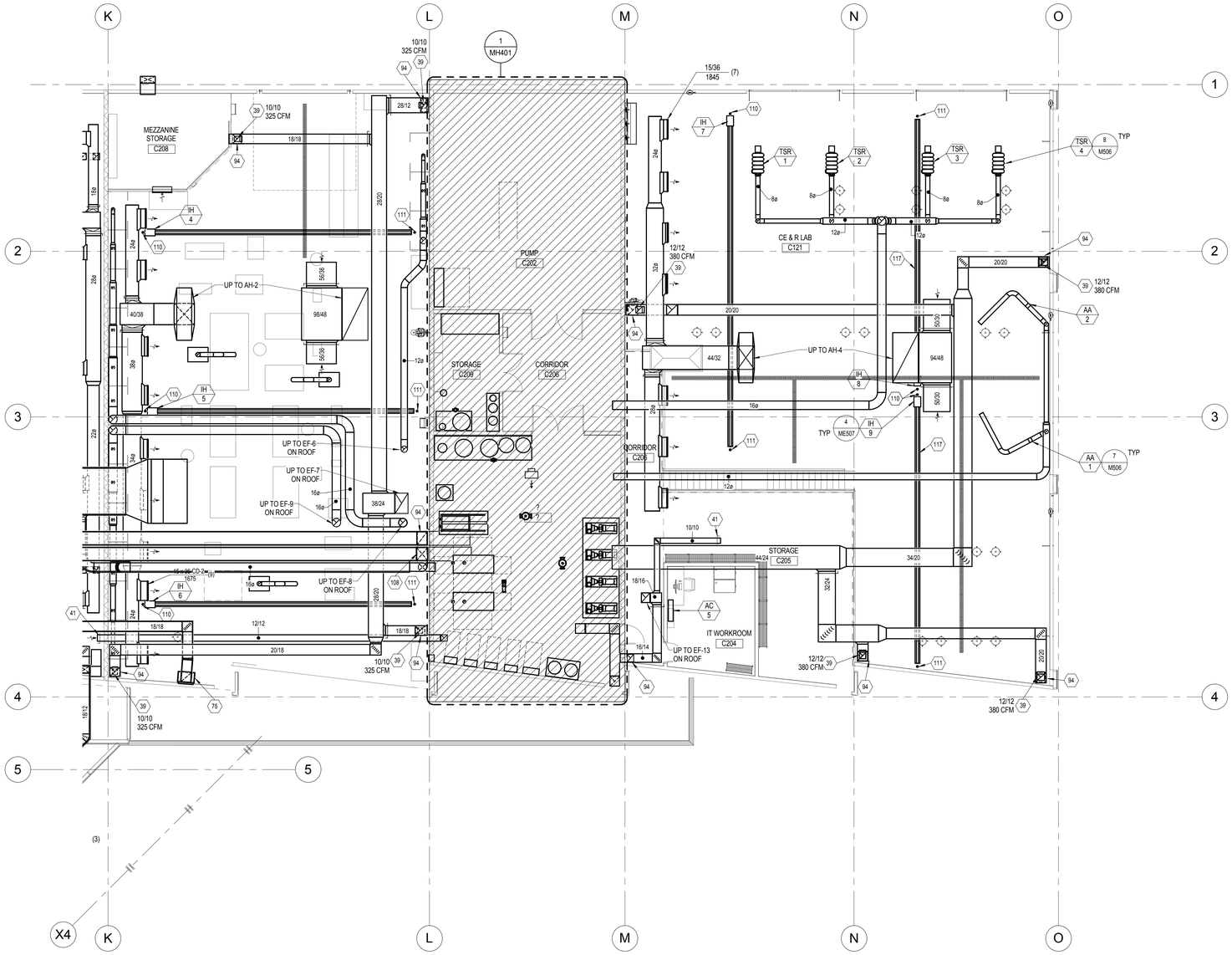
1 Lvl 2 Mechanical Plan 2
SCALE: 1/8" = 1'-0"



1 Lvl 2 Mechanical Plan 3
SCALE: 1/8" = 1'-0"

SHEET KEYNOTES

39 EXHAUST DUCT UP TO NEAR BOTTOM OF STRUCTURE. INSTALL BIRD SCREEN. PROVIDE BALANCING DAMPER AND BALANCE TO AIRFLOW NOTED.

41 BALANCE TO 300 CFM.

75 TRANSITION DOWN TO 30X18 DUCT TO ALLOW FOR INSTALLATION OF 28" WIDE RETURN AIR GRILLE.

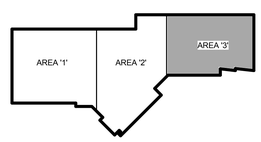
94 EXHAUST DUCT DOWN. SEE LEVEL 1 FOR CONTINUATION.

108 SUPPLY DUCT DOWN. SEE LEVEL 1 MECHANICAL PLAN FOR CONTINUATION.

110 PROVIDE 4" DIA AIR INTAKE UP THROUGH ROOF FOR GAS FIRED RADIANT TUBE HEATER. PROVIDE GOOSENECK FITTING ABOVE ROOF.

111 PROVIDE 4" DIA EXHAUST FLUE THROUGH ROOF FOR GAS FIRED RADIANT TUBE HEATER.

117 COORDINATE MOUNTINGHEIGHT WITH CRANE. INSTALL REFLECTORS AND GUARDS OVER CRANE COMPONENTS AS REQUIRED.



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LEVEL 2 MECHANICAL PLAN 3

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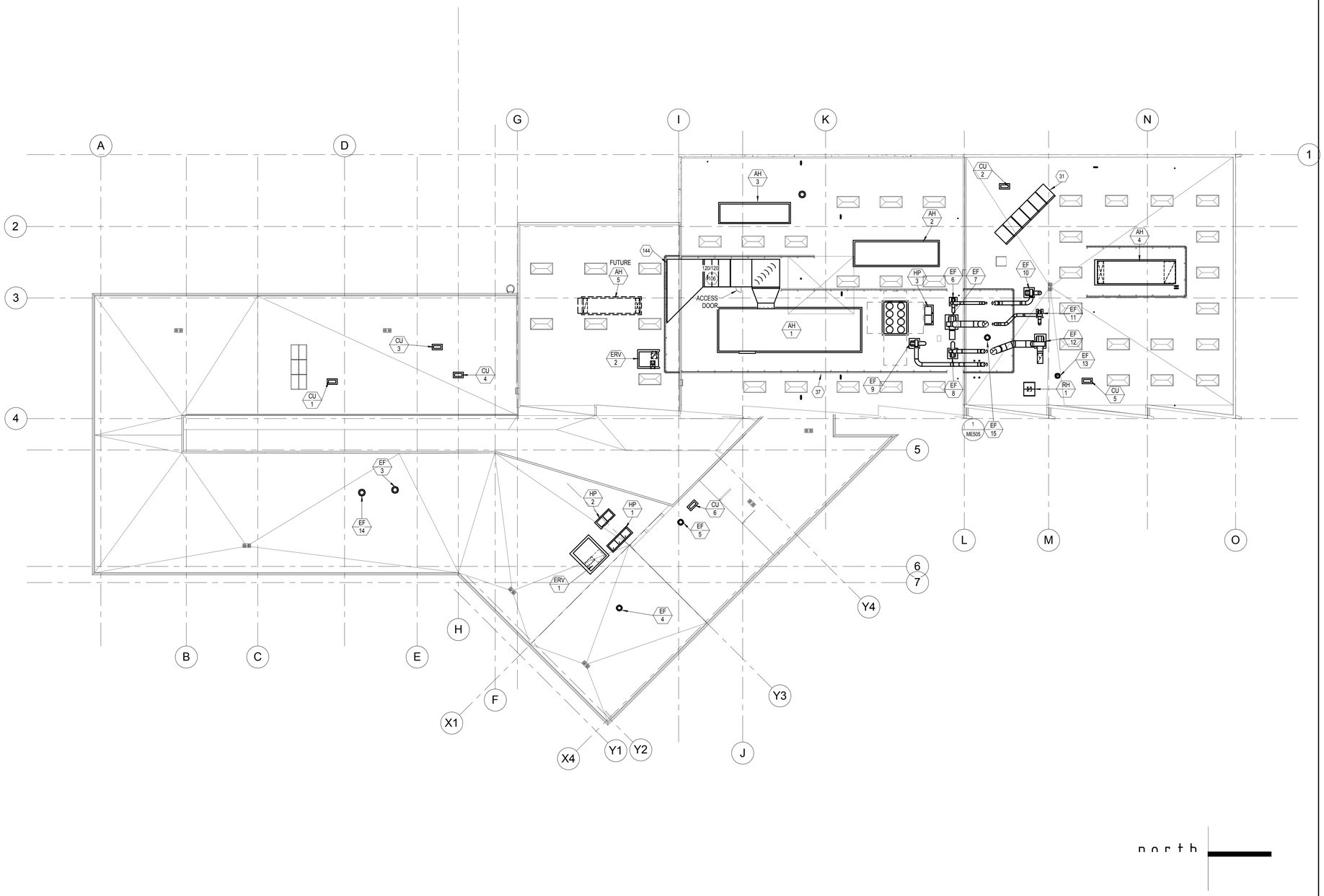

1 ROOF MECHANICAL PLAN
SCALE: 1/16" = 1'-0"

SHEET KEYNOTES

31 PHOENIX EVOLUTION SOLAR DOMESTIC HOT WATER HEATING KIT #2. MODEL #S8600-16. KIT COMPLETE WITH 3/4" LINE SET, PUMP STATION ASSEMBLY, PANEL CONNECTIONS, AUTO AIR VENTS, SHUT OFF AIR VENT VALVE, TEE FOR AUTO AIR VENT, SIX BRASS ADAPTERS TO 3/4" SOLAR FLEX LINE, TWO BRASS ADAPTERS 1" NPT X 1" BSP FOR CONNECTION OF 3/4" LINE SET TO TANK, 3/4" FLEXIBLE LINE CONNECTION KIT, UV INSULATED SOLAR FLEX PIPES WITH SENSOR WIRE, BS PULSE CONTROLLER FOR DUAL PUMP STATION, TACO CAST IRON PUMP 1" BSP 007-T7, SOLAR HI-TEMP ANTIFREEZE, 4.5 GALLON EXPANSION TANK, SOLAR CONTROL 2W1 PUMP SPEED TRIAC, 2 TEMP SENSORS, VBUS CONNECTION. CONNECT SOLAR HOT WATER HEATING SYSTEM TO PHOENIX PH130-805 STAINLESS STEEL TANK.

37 ARCHITECTURAL SCREEN WALL AROUND MECHANICAL ROOFTOP EQUIPMENT AS SHOWN. SEE ARCHITECTURAL PLANS FOR MORE INFORMATION.

106 FIELD FABRICATE WEATHERHOOD WITH BIRDSCREEN. INSTALL DRAINS EVERY 10 FT IN DUCT.

144 TRANSITION TO 276X72 & EXTEND & CONNECT TO INTAKE LOUVER ON SCREENWALL. COORDINATE WITH SCREENWALL MANUFACTURER.

LICENSED PROFESSIONAL ENGINEER
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ROOF MECHANICAL PLAN

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MH130

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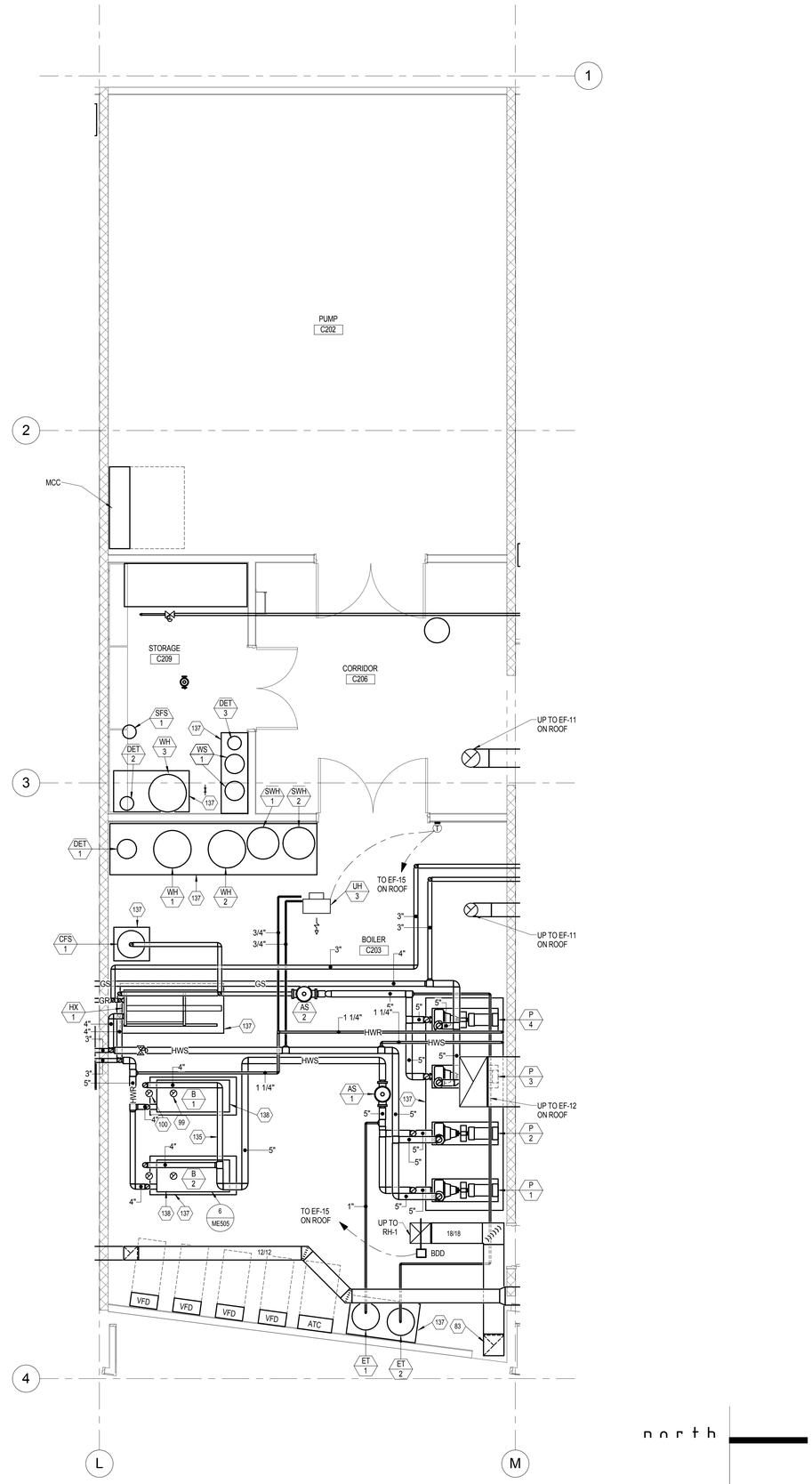

1 Mechanical Room Hvac/Piping Plan
SCALE: 1/4" = 1'-0"

SHEET KEYNOTES

83 MAKEUP AIR DUCT DOWN TO 12" AFF. DUCT SHALL BE OPEN ON THE BOTTOM WITH BIRD SCREEN INSTALLED.

99 10" DIA COMBUSTION AIR PIPING INTAKE UP THROUGH ROOF. INSTALL GOOSENECK FITTING ABOVE ROOF. INLET SHALL TERMINATE NO LESS THAN 1'-0" ABOVE POTENTIAL SNOW ACCUMULATION LEVEL AND 3'-0" BELOW EXHAUST VENT.

100 10" DIA EXHAUST VENT PIPING. INSTALL AS FAR AS PRACTICALLY POSSIBLE FROM AIR INTAKE PIPE. VENT TERMINATION SHALL BE NO LESS THAN 5'-0" HORIZONTALLY AND 3'-0" HIGHER THAN THE INTAKE FROM EITHER BOILER. SLOPE VENT BACK TO BOILER NO LESS THAN 1/4" PER 1'-0" HORIZONTAL.

135 PROVIDE EQUAL DISTANCE PIPING ON BOTH BOILERS FOR BALANCING PURPOSES.

137 6" CONCRETE HOUSEKEEPING PAD.

138 MAINTAIN MINIMUM SERVICE CLEARANCES. CONSULT MANUFACTURER'S INSTALLATION INSTRUCTIONS.

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project:
TOOELE APPLIED TECHNOLOGY COLLEGE - NEW BUILDING

88 South Tooele Blvd
Tooele, UT 84074

project#: 11.0420
date: 1/20/11

revisions :

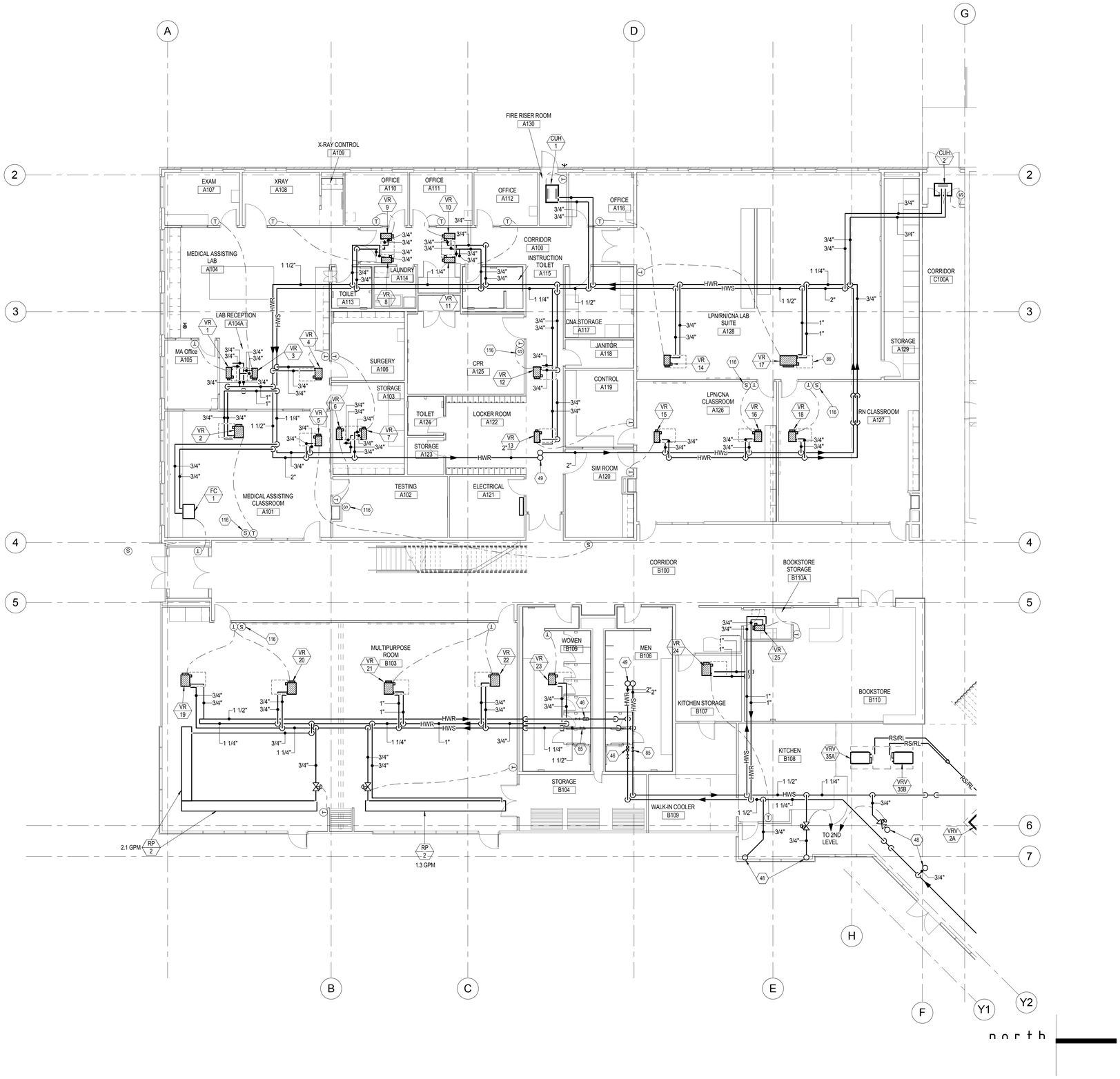
NOT FOR CONSTRUCTION

LARGE SCALE MECHANICAL PLAN

sheet:

MH401

100% Construction Documents



1 Lvl 1 Mechanical Piping Plan 1
SCALE: 1/8" = 1'-0"

MP111 GENERAL SHEET NOTES

1 PROVIDE FLEXIBLE EXPANSION JOINTS ON ALL DUCTWORK, PIPING FIRE SPRINKLING, PLUMBING ETC. WHERE ANY SYSTEM CROSSES THE BUILDING EXPANSION JOINT. SEE ARCHITECTURAL PLAN FOR LOCATION OF BUILDING EXPANSION JOINT.

2 INSTALL VAV BOXES PER DETAIL 12/ME503 UNLESS OTHERWISE NOTED.

3 PROVIDE ACCESS TO ALL VALVES AND DAMPERS LOCATED ABOVE CEILINGS.

4 LOCATE AIR VENTS AT ALL DOWNTURNS IN PIPING ELEVATION. INSTALL IN ACCESSIBLE LOCATION.

5 ALL PIPING IN SHAFTS SHALL BE WELDED OR BRAZED.

6 COORDINATE ALL PLUMBING PIPING, DUCTWORK, EQUIPMENT, CLEARANCE/ACCESS AND ALLOTHER APPURTENANCES WITH FIRE SPRINKLING, ELECTRICAL, STRUCTURAL, ARCHITECTURAL, AND ALL OTHER TRADES. COORDINATION SHALL BE MADE ON 1/4 SCALE COORDINATION SHOP DRAWINGS AS DETAILED IN THE SPECIFICATIONS. SUBMIT SHOP DRAWINGS TO ENGINEER, ANY CONFLICTS NOT SPECIFICALLY NOTED ON THE COORDINATION DRAWINGS SHALL BE RESOLVED AT THE CONTRACTORS EXPENSE.

SHEET KEYNOTES

46 PROVIDE ISOLATION VALVE AND CIRCUIT SETTER AS SHOWN. BALANCE CIRCUIT SETTER TO SUM OF FLOWS FOR DOWNSTREAM EQUIPMENT. SEE MECHANICAL SCHEDULES FOR FLOW RATES.

48 3/4" HWS AND HWR PIPING UP TO RADIANT PANEL ON LEVEL 2 ABOVE.

49 HOT WATER SUPPLY AND RETURN UP. SEE LEVEL 2 MECHANICAL PIPING PLAN FOR CONTINUATION.

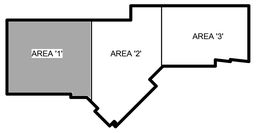
85 PROVIDE 24" X 24" CEILING ACCESS PANEL.

86 MAINTAIN MINIMUM SERVICE CLEARANCES AS SHOWN. TYPICAL.

116 CO2 SENSOR. MOUNT BETWEEN 3'-0" AND 6'-0".

GENERAL VRV NOTES

1 VRV REFRIGERANT LINES SHALL BE SIZED IN ACCORDANCE WITH MANUFACTURER'S GUIDELINES. BRANCH PIPING MUST BE SIZED TO ENSURE EQUAL PRESSURE DROP AND FLOW. HIGH EFFICIENCY REFRIGERANT FITTINGS (REFNET) MUST BE USED - NO TEES ARE ALLOWED IN REFRIGERANT PIPING.



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METHOD STUDIO INC.
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LEVEL 1 MECHANICAL PIPING PLAN 1

sheet:

MP111

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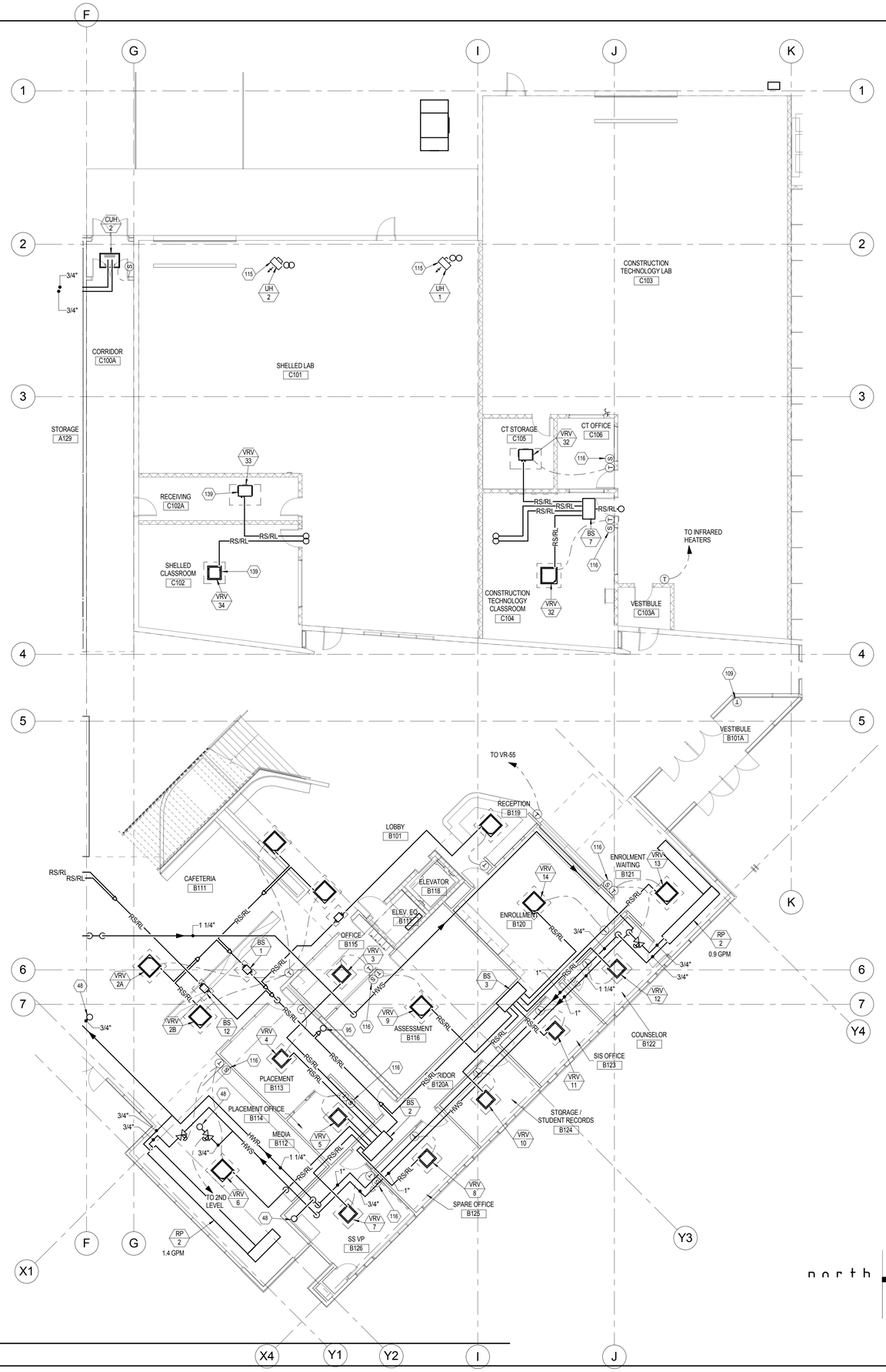

1 Lvl 1 Mechanical Piping Plan 2
SCALE: 1/8" = 1'-0"

SHEET KEYNOTES

48 3/4" HWS AND HWR PIPING UP TO RADIANT PANEL ON LEVEL 2 ABOVE.

95 REFRIGERANT LINES UP. SEE LEVEL 2 MECHANICAL PLAN FOR CONTINUATION.

109 PROVIDE WIRELESS THERMOSTAT TO CONTROL FAN COIL FC-2.

115 MOUNT HOT WATER UNIT HEATER AT 12 FT AFF.

116 CO2 SENSOR. MOUNT BETWEEN 3'-0" AND 6'-0".

139 EQUIPMENT IS LOCATED IN SHELLED SPACE AND IS SHOWN FOR SYSTEM SIZING AND COORDINATION PURPOSES ONLY. INSTALL AS INDICATED IN CONTRACT.

MP112 GENERAL SHEET NOTES

1 INSTALL VAV BOXES PER DETAIL 12/ME503 UNLESS OTHERWISE NOTED.

2 PROVIDE ACCESS TO ALL VALVES AND DAMPERS LOCATED ABOVE CEILINGS.

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4 ALL PIPING IN SHAFT SHALL BE WELDED OR BRAZED.

5 COORDINATE ALL PLUMBING PIPING, DUCTWORK, EQUIPMENT, CLEARANCE/ACCESS AND ALLOTHER APPURTENANCES WITH FIRE SPRINKLING, ELECTRICAL, STRUCTURAL, ARCHITECTURAL, AND ALL OTHER TRADES. COORDINATION SHALL BE MADE ON 1/4 SCALE COORDINATION SHOP DRAWINGS AS DETAILED IN THE SPECIFICATIONS. SUBMIT SHOP DRAWINGS TO ENGINEER. ANY CONFLICTS NOT SPECIFICALLY NOTED ON THE COORDINATION DRAWINGS SHALL BE RESOLVED AT THE CONTRACTORS EXPENSE.

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1 VRV REFRIGERANT LINES SHALL BE SIZED IN ACCORDANCE WITH MANUFACTURER'S GUIDELINES. BRANCH PIPING MUST BE SIZED TO ENSURE EQUAL PRESSURE DROP AND FLOW. HIGH EFFICIENCY REFRIGERANT FITTINGS (REFNET) MUST BE USED - NO TEES ARE ALLOWED IN REFRIGERANT PIPING.

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LEVEL 1 MECHANICAL PIPING PLAN 2

sheet:

MP112

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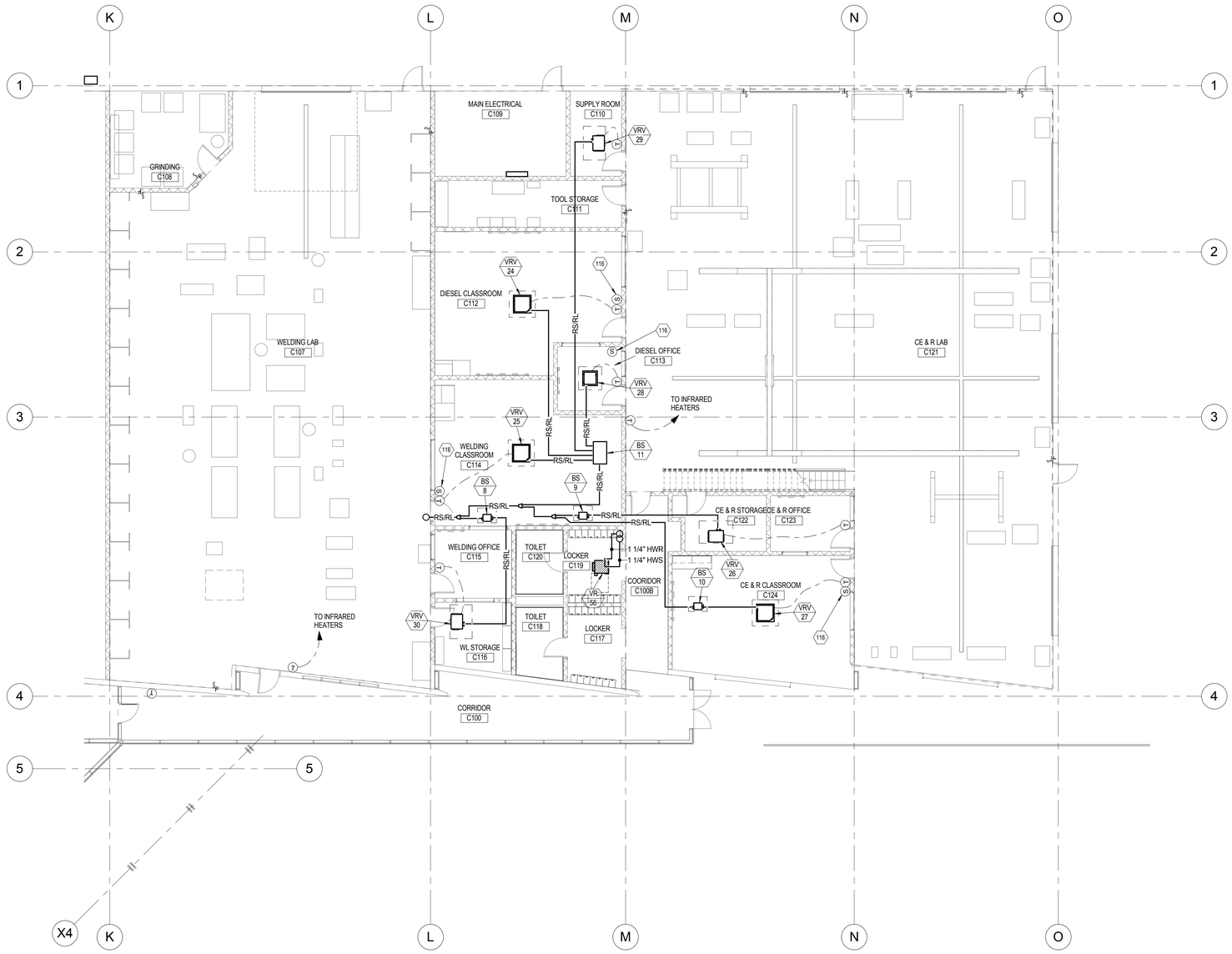
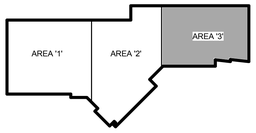


1 Lvl 1 Mechanical Piping Plan 3
SCALE: 1/8" = 1'-0"

north



SHEET KEYNOTES

109 PROVIDE WIRELESS THERMOSTAT TO CONTROL FAN COIL FC-2.

116 CO2 SENSOR. MOUNT BETWEEN 3'-0" AND 6'-0".

MP113 GENERAL SHEET NOTES

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LEVEL 1 MECHANICAL PIPING PLAN 3

sheet:

MP113

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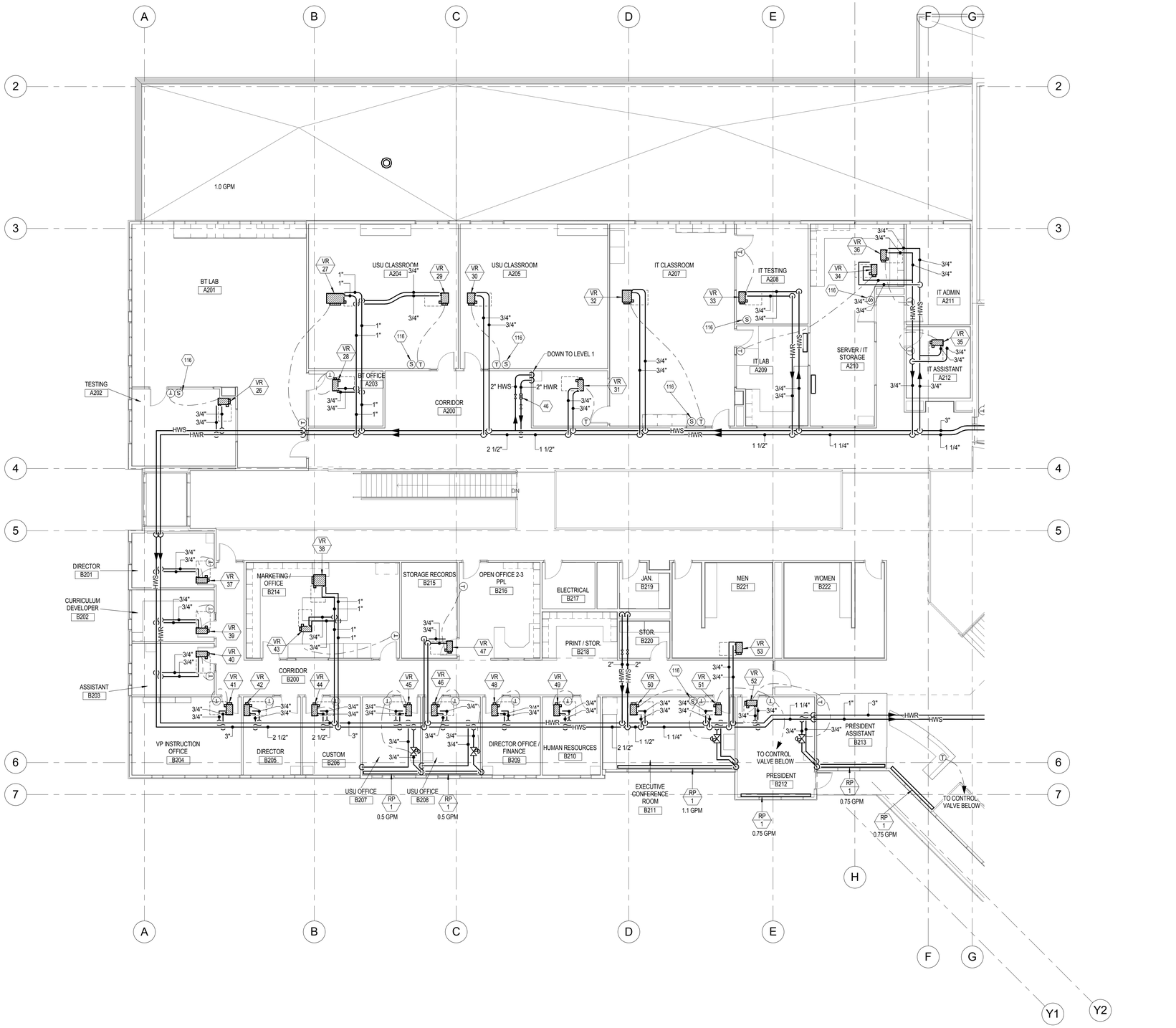

1 Lvl 2 Mechanical Piping Plan 1
SCALE: 1/8" = 1'-0"

SHEET KEYNOTES

46 PROVIDE ISOLATION VALVE AND CIRCUIT SETTER AS SHOWN. BALANCE CIRCUIT SETTER TO SUM OF FLOWS FOR DOWNSTREAM EQUIPMENT. SEE MECHANICAL SCHEDULES FOR FLOW RATES.

116 CO2 SENSOR. MOUNT BETWEEN 3'-0" AND 6'-0".

MP121 GENERAL SHEET NOTES

1 PROVIDE FLEXIBLE EXPANSION JOINTS ON ALL DUCTWORK, PIPING FIRE SPRINKLING, PLUMBING ETC. WHERE ANY SYSTEM CROSSES THE BUILDING EXPANSION JOINT. SEE ARCHITECTURAL PLAN FOR LOCATION OF BUILDING EXPANSION JOINT.

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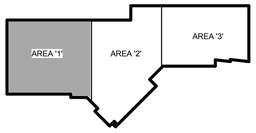

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LEVEL 2 MECHANICAL PIPING PLAN 1

sheet:

MP121

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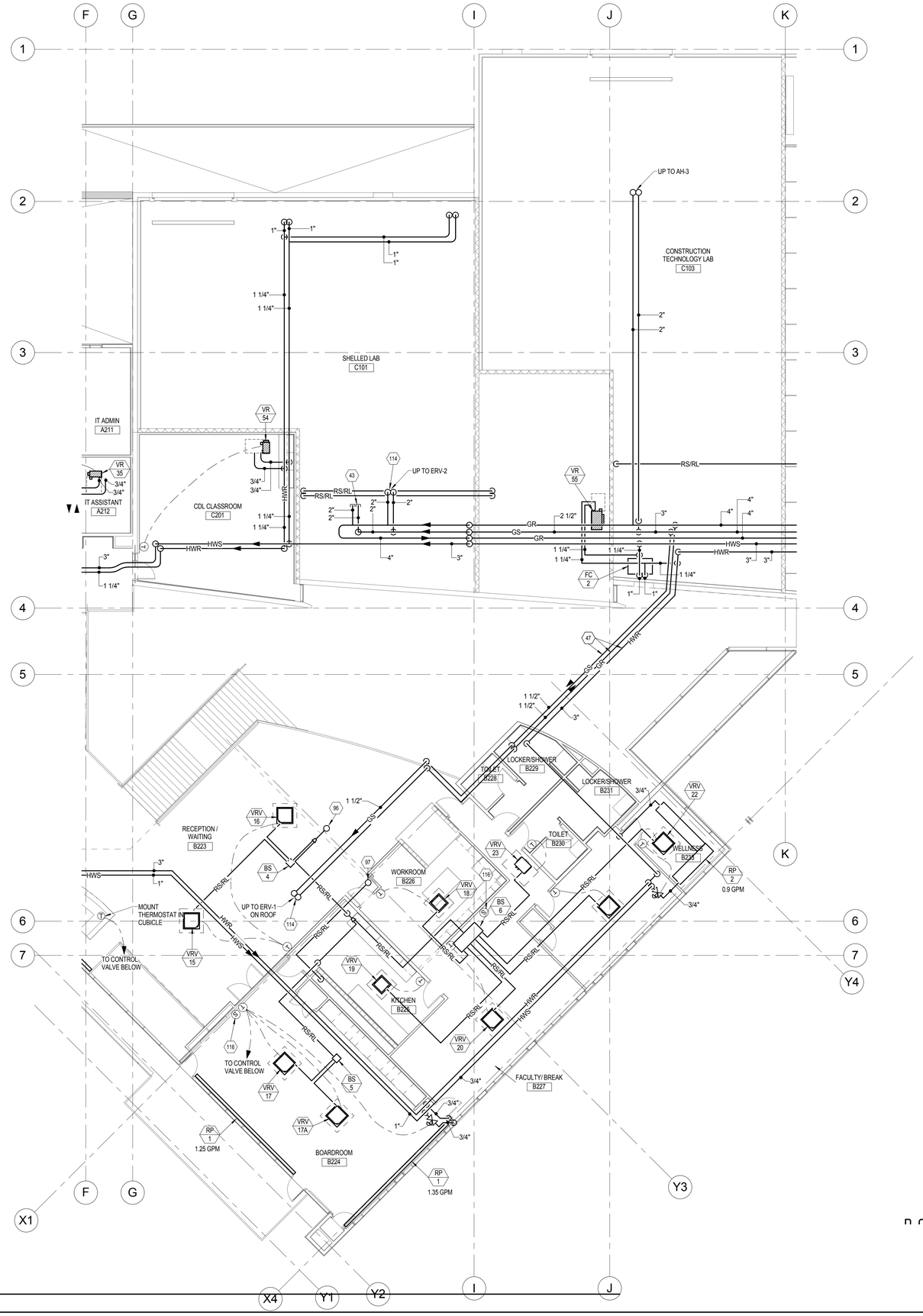

1 Lvl 2 Mechanical Piping Plan 2
SCALE: 1/8" = 1'-0"

SHEET KEYNOTES

43 CAPPED FOR FUTURE EXPANSION.

47 PIPING SHALL BE RUN HIGH IN BETWEEN STRUCTURE. PROVIDE PVC JACKET AND COORDINATE PIPE ROUTE WITH STRUCTURE TO HIDE PIPING FROM VIEW. COORDINATE PVC JACKET COLOR WITH ARCHITECT.

96 UP TO HP-2 ON ROOF.

97 UP TO HP-1 ON ROOF.

114 PROVIDE 3-WAY VALVE.

116 CO2 SENSOR. MOUNT BETWEEN 3'-0" AND 6'-0".

MP122 GENERAL SHEET NOTES

1 INSTALL VAV BOXES PER DETAIL 12/ME503 UNLESS OTHERWISE NOTED.

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LEVEL 2 MECHANICAL PIPING PLAN 2

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MP122

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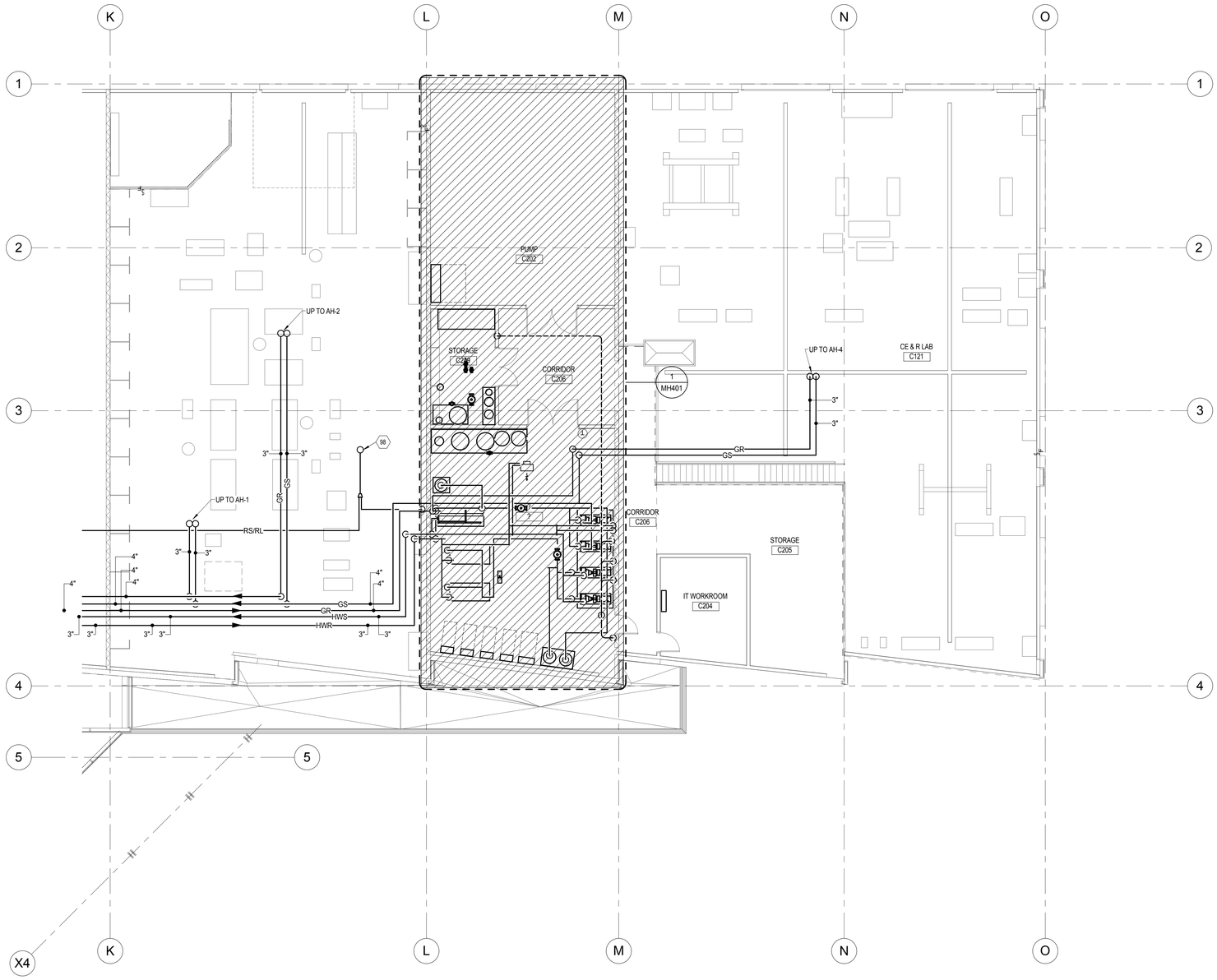
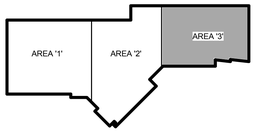


north



1 Lvl 2 Mechanical Piping Plan 3
SCALE: 1/8" = 1'-0"

SHEET KEYNOTES

98 UP TO HP-3 ON ROOF.

MP123 GENERAL SHEET NOTES

1 INSTALL VAV BOXES PER DETAIL 12/ME503 UNLESS OTHERWISE NOTED.

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LEVEL 2 MECHANICAL PIPING PLAN 3

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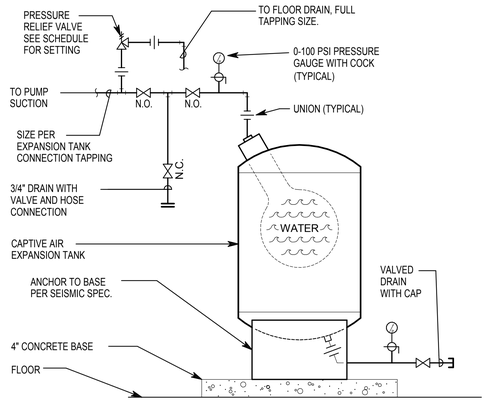
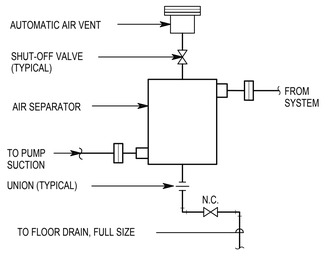


1 PE501 EXPANSION TANK DETAIL
NO SCALE



6 PE501 AIR SEPARATOR DETAIL
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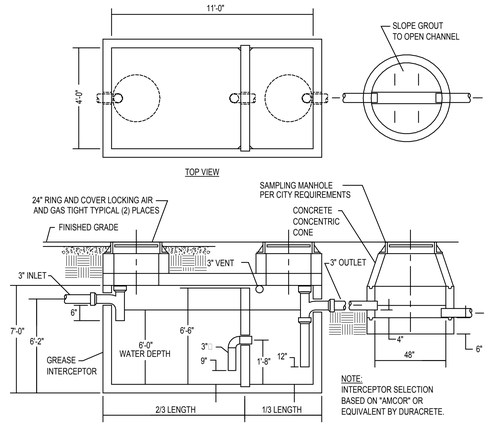
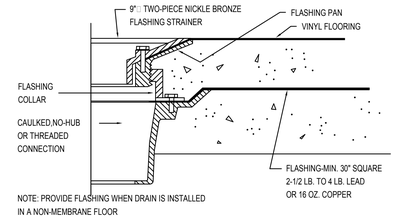
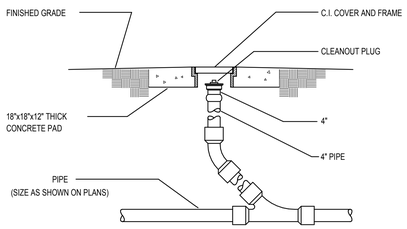


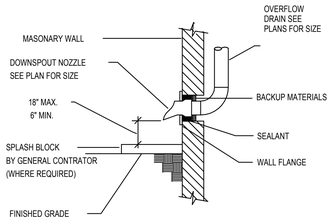
11 PE501 GREASE INTERCEPTOR DETAIL (2000 GALLON) TYPICAL
NO SCALE



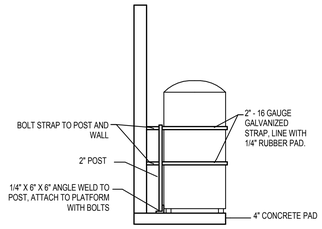
16 PE501 FLOOR DRAIN
NO SCALE



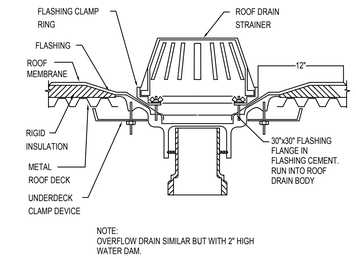
17 PE501 CLEANOUT TO GRADE DETAIL (COTG)
NO SCALE



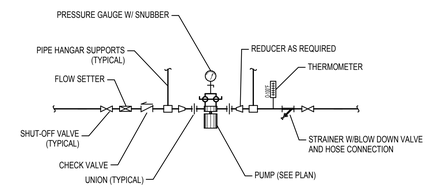
2 PE501 DOWNSPOUT NOZZLE DETAIL
NO SCALE



7 PE501 DOMESTIC WATER HEATER ANCHORAGE
NO SCALE



12 PE501 ROOF DRAIN
NO SCALE



18 PE501 IN-LINE PUMP DETAIL
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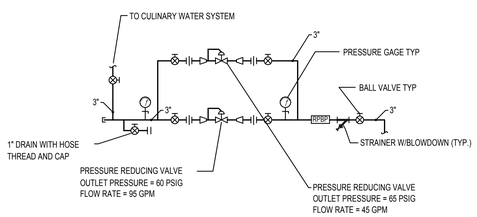

3 PE501 WATER HEADER DETAIL
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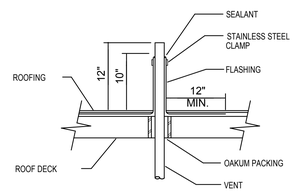
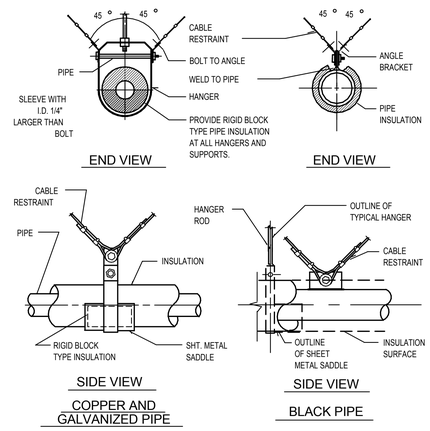
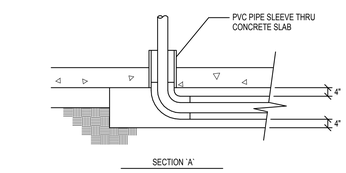
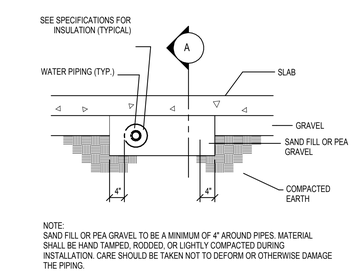


8 PE501 VENT THRU ROOF FLASHING & SLEEVING
NO SCALE

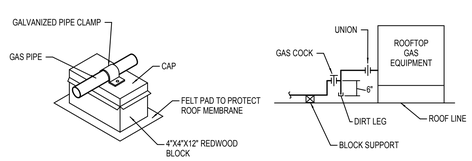


13 PE501 PIPING RESTRAINT DETAIL
NO SCALE

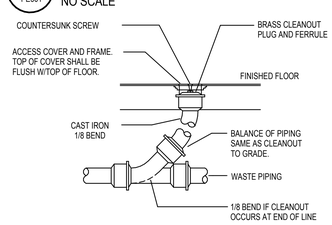




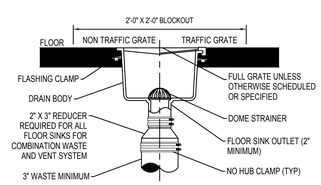
19 PE501 UNDER SLAB WATER PIPING
NO SCALE



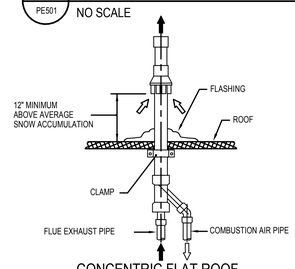
4 PE501 GAS PIPING
NO SCALE



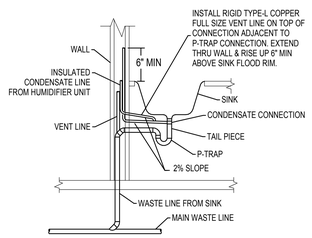
9 PE501 FLOOR CLEANOUT DETAIL
NO SCALE



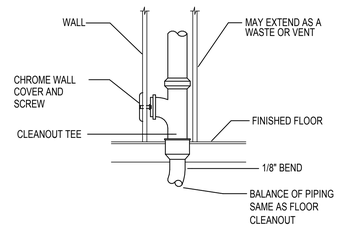
10 PE501 FLOOR SINK
NO SCALE



14 PE501 CONCENTRIC FLAT ROOF TERMINATION INSTALLATION
NO SCALE



15 PE501 CONDENSATE CONNECTION TO LAVATORY
NO SCALE



20 PE501 WALL CLEANOUT
NO SCALE

5 PE501 NOT USED
NO SCALE

LICENSED PROFESSIONAL ENGINEER
No. 275661
RAYMOND D. VERNON
STATE OF UTAH

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project:
TOOELE APPLIED TECHNOLOGY COLLEGE - NEW BUILDING

88 South Tooele Blvd
Tooele, UT 84074

project#: 11.0420
date: 1/20/11

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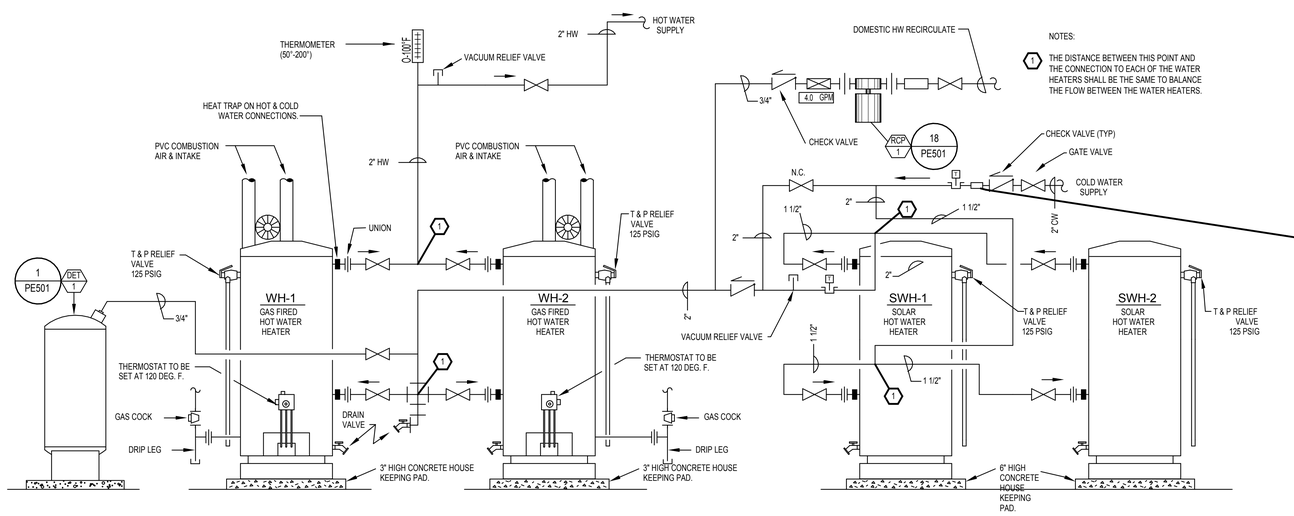
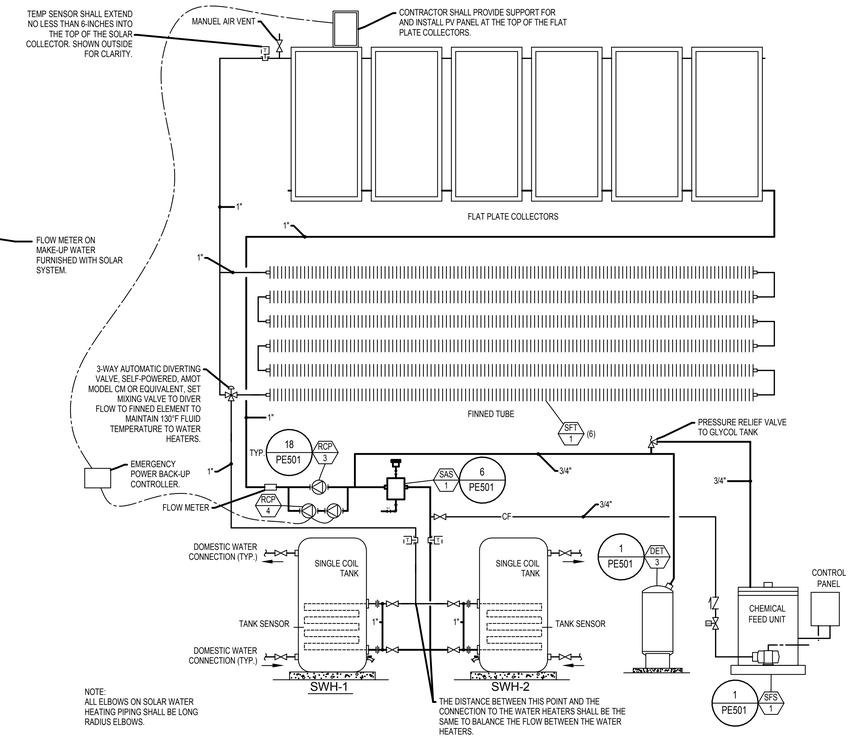


NOTES:

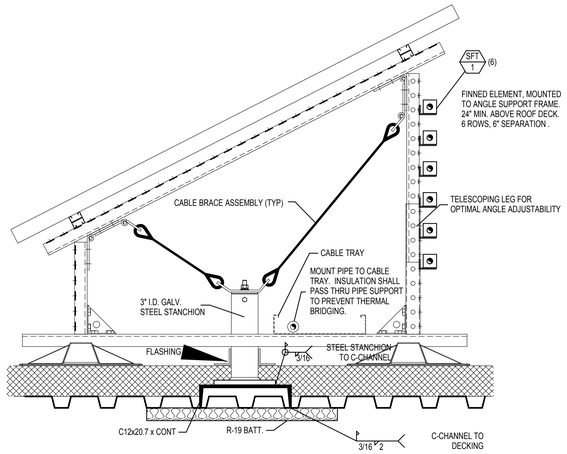
1. THE DISTANCE BETWEEN THIS POINT AND THE CONNECTION TO EACH OF THE WATER HEATERS SHALL BE THE SAME TO BALANCE THE FLOW BETWEEN THE WATER HEATERS.

1 / PE502 WATER HEATER PIPING DIAGRAM (WATER SIDE)
NO SCALE

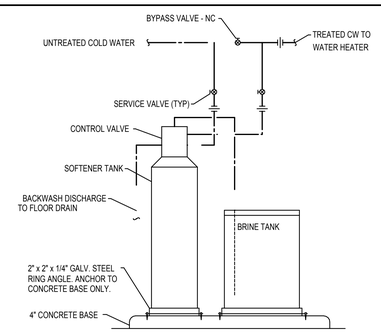


NOTE:
ALL ELBOWS ON SOLAR WATER HEATING PIPING SHALL BE LONG RADIUS ELBOWS.

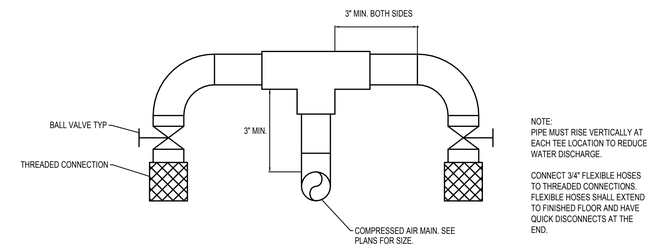
7 / PE502 SOLAR DOMESTIC HOT WATER SYSTEM
NO SCALE



2 / PE502 SOLAR PANEL SUPPORT DETAIL
NO SCALE



4 / PE502 WATER SOFTENER DETAIL
NO SCALE



NOTE:
PIPE MUST RISE VERTICALLY AT EACH TEE LOCATION TO REDUCE WATER DISCHARGE.

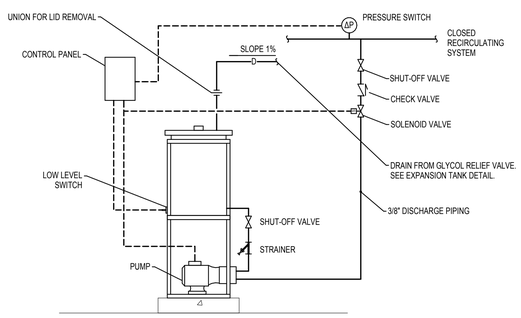
CONNECT 3/4" FLEXIBLE HOSES TO THREADED CONNECTIONS. FLEXIBLE HOSES SHALL EXTEND TO FINISHED FLOOR AND HAVE QUICK DISCONNECTS AT THE END.

8 / PE502 SIMPLEX AIR COMPRESSOR PIPING SCHEMATIC
NO SCALE

NOTES:
ALL EQUIPMENT, UNLESS CALLED OUT OTHERWISE, SHALL BE PROVIDED AND INSTALLED BY THE CONTRACTOR.

BID ALT NO. 4: ALL ITEMS ASSOCIATED WITH THE COMPRESSED AIR SYSTEM SHALL BE BID AS AN ALTERNATE.

5 / PE502 SIMPLEX AIR COMPRESSOR PIPING SCHEMATIC
NO SCALE



NOTES:

1. CONTROL PANEL IS MOUNTED ON TANK SUPPORT STAND.

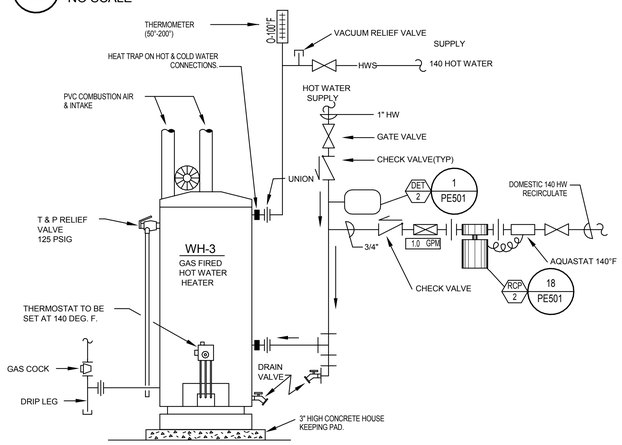
2. PUMP CAPACITY IS 1.3 GPM AT 100 PSIG, 1/3 HP.

3. ALL WIRING TO BE PROVIDED BY ELECTRICAL CONTRACTOR.

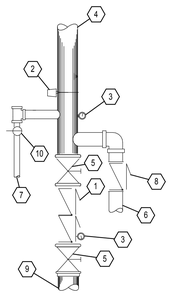
4. GLYCOL FEED SYSTEM INCLUDES 50 GAL CLEAR POLYETHYLENE TANK. STEEL SUPPORT STAND, PUMP, LOW LEVEL SWITCH, STRAINER, SHUT-OFF VALVE, CONTROL PANEL, SOLENOID VALVE AND PRESSURE SWITCH.

5. SEE EXPANSION TANK SCHEDULE FOR FILL PRESSURE.

3 / PE502 PACKAGED GLYCOL FEED SYSTEM
NO SCALE



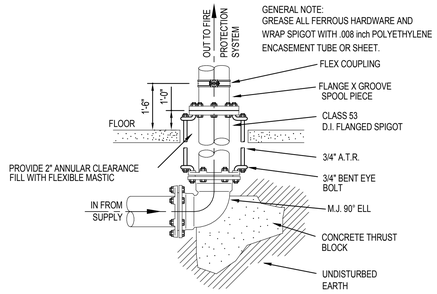
6 / PE502 WATER HEATER PIPING DIAGRAM
NO SCALE



1. DOUBLE CHECK VALVE ASSEMBLY
2. FLOW SWITCH TO HORN STROBE ALARM, WIRING BY DIVISION 26.
3. WATER PRESSURE GAGE
4. TO WET SYSTEM.
5. CONTROL VALVE WITH TAMPER SWITCH, WIRING BY DIVISION 26.
6. TO FIRE DEPARTMENT CONNECTION.
7. MAIN DRAIN PIPED TO EXTERIOR.
8. CHECK VALVE
9. FIRE LINE FROM SUPPLY. PROVIDE GALVANIZED PIPING UP TO VALVE ASSEMBLY. PROVIDE RESTRAINTS, FLEXIBLE COUPLINGS, AND ANNULAR CLEARANCE AS REQUIRED BY NFPA.
10. MAINTENANCE VALVE

9 / PE502 FIRE SPRINKLER RISER DETAIL
NO SCALE

GENERAL NOTE:
GREASE ALL FERROUS HARDWARE AND WRAP SPIGOT WITH .008 inch POLYETHYLENE ENCASEMENT TUBE OR SHEET.



10 / PE502 FLANGE SPIGOT DETAIL
NO SCALE

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PLUMBING FIXTURE SCHEDULE

ID	FIXTURE	CW (IN)	HW (IN)	W (IN)	V (IN)	NOTES
DSN-1	DOWN SPOUT NOZZLE	-.-	-.-	-.-	-.-	SEE PLANS FOR SIZE
EWS-1	EMERGENCY SHOWER/EYEWASH	1	1	-.-	-.-	-.-
EWS-2	EMERGENCY SHOWER/EYEWASH	1	1	-.-	-.-	-.-
EWC-1	ELECTRIC WATER COOLER	1/2	-.-	1 1/2	1 1/2	-.-
EWC-2	ELECTRIC WATER COOLER	1/2	-.-	1 1/2	1 1/2	SPLIT LEVEL, ADA
FD-1	FLOOR DRAIN	-.-	-.-	2	2	RESTROOM
FD-2	FLOOR DRAIN	-.-	-.-	3	2	MECHANICAL ROOM
FS-1	FLOOR SINK	-.-	-.-	3	2	
TD-1	TRENCH DRAIN	-.-	-.-	3	2	
HB-1	HOSE BIB	3/4	-.-	-.-	-.-	-.-
L-1	LAVATORY	1/2	1/2	1 1/2	1 1/2	COUNTER MOUNTED, OVAL, ADA
L-2	LAVATORY	1/2	1/2	1 1/2	1 1/2	WALL HUNG, ADA
L-3	LAVATORY	1/2	1/2	1 1/2	1 1/2	WALL HUNG, ADA
NFH-1	NON FREEZE WALL HYDRANT	3/4	-.-	-.-	-.-	-.-
RD-1	ROOF DRAIN	-.-	-.-	-.-	-.-	SEE PLANS FOR SIZE
RDO-1	ROOF DRAIN OVERFLOW	-.-	-.-	-.-	-.-	SEE PLANS FOR SIZE
REF-1	REFRIGERATOR CONNECTION	1/2	-.-	-.-	-.-	-.-
S-1	SINK	1/2	1/2	2	1 1/2	COUNTER MOUNTED, SINGLE COMPARTMENT
S-2	SINK	1/2	1/2	2	1 1/2	WALL MOUNTED, SINGLE COMPARTMENT
S-3	SINK	1/2	1/2	2	1 1/2	WALL MOUNTED, SINGLE COMPARTMENT, THREE FAUCETS
S-4	SINK	1/2	1/2	2	1 1/2	COUNTER MOUNTED, DOUBLE COMPARTMENT
SH-1	SHOWER	1/2	1/2	2	2	ADA
SS-1	SERVICE SINK	3/4	3/4	3	2	-.-
U-1	URINAL	3/4	-.-	2	2	WALL HUNG, FLUSH VALVE, ADA
WB-1	WASHER BOX	3/4	3/4	2	2	-.-
WC-1	WATER CLOSET	1	-.-	4	2	WALL HUNG, FLUSH VALVE
WC-2	WATER CLOSET	1	-.-	4	2	WALL HUNG, FLUSH VALVE, ADA
WC-3	WATER CLOSET	1	-.-	4	2	FLOOR MOUNTED, FLUSH VALVE, ADA
GI-1	GREASE INTERCEPTOR	-.-	-.-	3	2	2000 GALLON, PROVIDE SAMPLE PORT
SO-1	SAND AND OIL SEPERATOR	-.-	-.-	2	1 1/2	500 GALLON, PROVIDE SAMPLE PORT
SO-2	SAND AND OIL SEPERATOR	-.-	-.-	3	2	500 GALLON, PROVIDE SAMPLE PORT

1. ALL UNDER GROUND WASTE AND VENT SHALL BE 2" OR GREATER PER DRAWINGS.

DOMESTIC PUMP SCHEDULE

			FLUID			PUMP		ELECTRICAL				
ID	MANUFACTURER AND MODEL NUMBER	LOCATION	FLOW RATE (GPM)	WORKING FLUID	HEAD LOSS (FT)	EFFICIENCY (%)	CONSTRUCTION	MOTOR SIZE (HP)	MOTOR BHP (HP)	MOTOR SPEED (RPM)	VOLT/PH/HZ	NOTES
RCP-1	B&G 90 1-1/2A	BOILER C203	4	WATER	30	28	BRONZE	0.5	0.5	1725	120/1/60	
RCP-2	B&G PR SERIES	C209	1	WATER	17		BRONZE	0.17	0.17	1725	120/1/60	
RCP-3	B&G PR SERIES	C209	4.8	40% PPG	15	71	STAINLESS	0.17	0.17	1725	120/1/60	(1)
RCP-4	LAING D5	C209	4.5	40% PPG	8	71	STAINLESS	0.17	0.17	1725	(4)	(1)(2)(3)

(1) RCP-3 SHALL BE THE PRIMARY PUMP. RCP-4 SHALL OPERATE DURING RCP-3 PUMP FAILURE.

(2) RCP-4 SHALL BE QTY (2) LAING DT SOLAR PUMPS IN SERIES. BOTH PUMPS SHALL OPERATE AS ONE.

(3) UNIT SHALL BE COMPLETE WITH DTC10-DC CONTROL UNIT WITH 3 10K THERMISTERS AND A 50W 12VDC PV PANEL. RCP-4 SHALL BE FURNISHED WITH THE SOLAR .... AUTOMATION CONTROL SYSTEM. ALL OTHER PUMPS SHALL BE FURNISHED BY THE CONTRACTOR. SEE SECTION 230900 BUILDING AUTOMATION SYSTEM.

(4) SOLAR POWERED PUMP.

SOLAR PANEL SCHEDULE

ID	MANUFACTURER AND MODEL NUMBER	LOCATION	NUMBER OF PANELS	PANEL SIZE EACH LEN/HT (IN)	PANEL THICKNESS (IN)	OPTICAL EFFICIENCY (%)	TOTAL FLUID FLOW (GPM)	MAXIMUM PRESSURE DROP (FT)	ENT. FLUID TEMP (DEG. F)	LEAVING FLUID TEMP (DEG. F)	NOTES
SOP-1	OVENTROP OVF-32	ROOF	6	48/96	4	75	4.8	5	112	123.1	(1)(2)(3)

(1) MAX TEMPERATURE DIFFERENCE ACROSS THE PANEL IS 20ºF.

(2) INSTALL UNITS ON MIRO INDUSTRIES ADJUSTABLE SUPPORTS. SEE DETAIL.

(3) SET PANEL ANGLE TO 45 DEGREES FROM HORIZONTAL AND ORENT PANELS TO FACE SOLAR SOUTH AS STATED IN MANUFACTURER'S INSTALLATION INSTRUCTIONS.

SOLAR WATER HEATER SCHEDULE

ID	MANUFACTURER AND MODEL NUMBER	LOCATION	SERVICE	RATING (BTUH)	FLOW (GPM)	HEAT TRANSFER FLUID	TANK SIZE (GAL)	TANK HT/DIA (IN)	NOTES
SWH-1	OVENTROP 119SC	BOILER C203	DOMESTIC HOT WATER	19,845	2.4	40% PPG	119	65/28	(1)
SWH-2	OVENTROP 119SC	BOILER C203	DOMESTIC HOT WATER	19,845	2.4	40% PPG	119	65/28	(1)

(1) UNIT SHALL BE SINGLE COIL 119 GAL TANK.

GAS FIRED WATER HEATER SCHEDULE

ID	MANUFACTURER AND MODEL NUMBER	LOCATION	INPUT (MBH)	SERVICE	DISCHARGE TEMPERATURE (F)	EFFICIENCY (%)	TYPE	RECOVERY RATE @ 100 F DELTA T	TANK SIZE (GAL)	FLUE SIZE (IN)	HEIGHT/ DIAMETER (IN)	ELECTRICAL V/PH	NOTES
WH-1	A.O. SMITH BTH-400	BOILER C203	400	DOMESTIC HOT WATER	120	96	NAT GAS	465	130	4	75.5/33	120/1	(1)
WH-2	A.O. SMITH BTH-400	BOILER C203	400	DOMESTIC HOT WATER	120	96	NAT GAS	465	130	4	75.5/33	120/1	(1)
WH-3	A.O. SMITH BTH-80	C209	76	KITCHEN HOT WATER	140	96	NAT GAS	83	50	3	71/22	120/1	(1)

(1) UNIT SHALL BE POWER VENTED.

DOMESTIC EXPANSION TANK SCHEDULE

			FLUID		PHYSICAL						
ID	MANUFACTURER AND MODEL NUMBER	LOCATION	WORKING FLUID	MIN. TANK/ ACCEPTANCE (GAL)	TANK SIZE (GAL)	RELIEF VALVE (PSIG)	INITIEL PRESSURE (PSIG)	FINAL PRESSURE (PSIG)	DIA./ HEIGHT (IN)	NPT FITTING (IN)	NOTES
DET-1	AMTROL ST-30V-C	BOILER C203	WATER	10.5	14	75	19	70	17/20	3/4	1
DET-2	AMTROL ST-30V-C	C209	WATER	10.5	14	75	19	70	17/20	3/4	1
ET-3	AMTROL ST-30V-C	BOILER C203	40% PPG	10.5	14	45	34	40	17/20	3/4	2

1. TANK LINER SUITABLE FOR POTABLE WATER, ASME.

2. TANK LINER SUITABLE FOR 40% PPG.

SOLAR HEATING AIR SEPARATOR SCHEDULE

				FLUID			PHYSICAL	
ID	MANUFACTURER AND MODEL NUMBER	LOCATION	TYPE	FLOW RATE (GPM)	WORKING FLUID	HEAD LOSS (FT)	DIA./ HEIGHT (IN)	NOTES
SAS-1	SPIROTHERM VJR075HT	C209	AIR	6	40% PPG	0.3	2.6/6	

WATER SOFTENER SCHEDULE

ID	MANUFACTURER AND MODEL NUMBER	LOCATION	TOTAL (GRAINS)	NORMAL / MAX WATER FLOW/UNIT @ 15/25 PSI LOSS	BACKWASH FLOW RATE (GPM)	RESIN QUANTITY (FT^3)	RESIN TANK HGHT/DIA (IN/IN)	BRINE TANK HGHT/DIA (IN/IN)	ELECTRICAL (VOLT/PH)	NOTES
WS-1	CULLIGAN CSM 150-2	C209	125,000	67/94	10	5	54/20	48/24	120/1	(1)(2)(3)

1. PACKAGED EQUIPMENT COMPLETE WITH 120V TO 24V TRANSFORMER.

2. MOUNT ON 4" HIGH HOUSEKEEPING PAD.

3. SIMPLEX SYSTEM.

OWNER FURNISHED AIR COMPRESSOR SCHEDULE

						RECEIVER		ELECTRICAL			PHYSICAL	
ID	MANUFACTURER AND MODEL NUMBER	LOCATION	TYPE	MAXIMUM FLOW (ACFM)	MAXIMUM PUMP PRESS. (PSIG)	SIZE (GAL)	RECEIVER TYPE	MOTOR QUAN.	MOTOR SIZE (HP)	VOLT/PH	LENGTH/ WIDTH/ HEIGHT (IN)	NOTES
AC-1	INGERSOLL RAND PX2237U03279	C209	SIMPLEX	92	150	-	HORIZONTAL	1	25	460/3	83/36/65	(1)(2)

1. OWNER PROVIDED UNIT COMPLETE WITH OWNER PROVIDED TYPE G AND H AIR FILTERS AND REFRIGERATED AIR DRYER FOR CLEAN AIR SYSTEM.

2. AIR COMPRESSOR AND FILTERS ARE OWNER PROVIDED AND CONTRACTOR INSTALLED.

3. COMPRESSED AIR SYSTEM IS BID ALTERNATE NUMBER 4.

KITCHEN EQUIPMENT SCHEDULE

ID	FIXTURE	CW (IN)	HW (IN)	W (IN)	V (IN)	G (IN)	MBH	NOTES
K-1	MOP SINK	1/2	1/2	1-1/2	1-1/2	-	-	
K-3	THREE COMPARTMENT SINK	1/2	1/2	1-1/2	-	-	-	HALF GRATE TOP. NOTE (1)
K-6	DISHWASHER	-	3/4	3/4	-	-	-	NOTE (1),(4)
K-29B	WALK-IN FREEZER; BLOWER COILS	-	-	-	-	-	-	HALF GRATE TOP. NOTE (1)
K-7	ICE MAKER WITH BIN	1/2	-	1	-	-	-	INSTALL INLINE FILTER SYSTEM. NOTE (1)
K-28B	WALK-IN COOLER; BLOWER COILS	-	-	-	-	-	-	NOTE (1)
K-31	HAND SINK	1/2	1/2	1-1/2	1-1/2	-	-	
K-22	UNDER FIRE BROILER	-	-	-	-	3/4	120	NOTES (2), (3)
K-21	SALAMANDER BROILER	-	-	-	-	3/4	40	NOTES (2), (3)
K-19	GRIDDLE	-	-	-	-	3/4	90	NOTES (2), (3)
K-16	SIX BURNER RANGE WITH OVEN	-	-	-	-	3/4	243	NOTES (2), (3)
K-34	HOT FOOD WARMER	-	1/2	1	-	-	-	HALF GRATE TOP. NOTE (1)
K-37	DROP-IN UTILITY SINK	1/2	1/2	2	-	-	-	NOTE (1)
K-46	SOUP WARMER	-	-	1	-	-	-	NOTE (1)
K-45	ESPRESSO MACHINE	1/2	-	1	-	-	-	INSTALL INLINE FILTER. NOTE (1)
K-47	DROP-IN UTILITY SINK	1/2	1/2	2	-	-	-	NOTE (1)
K-52	REFRIGERATED DISPLAY CASE	-	-	1	-	-	-	HALF GRATE TOP. NOTE (1)
K-54	SODA/ICE DISPENSER	1/2	-	1	-	-	-	HALF GRATE TOP. NOTE (1)
K-55	ICE MAKER	1/2	-	1	-	-	-	NOTE (1)
K-57	ICE TEA DISPENSER	1/2	-	1/2	-	-	-	DRAIN TO FLOOR SINK
K-56	COFFEE BREWER	1/2		1/2				NOTE (1)

(1) PROVIDE INDIRECT AIR GAP DRAIN TO FLOOR SINK.

(2) K.E.C TO PROVIDE QUICK DISCONNECT COUPLINGS AT GAS ROUGH-INS AND FINAL CONNECTION. TO BE INSTALLED BY PLUMBING CONTRACTOR.

(3) K.E.C. TO PROVIDE LEAK LIMITER PRESSURE REGULATOR AT GAS FINAL CONNECTION AS REQUIRED TO ADJUST FOR ALTITUDE. TO BE INSTALLED BY PLUMBING CONTRACTOR.

(4) PLUMBING CONTRACTOR TO PROVIDE AND INSTALL WATER HAMMER ARRESTOR.

SOLAR CHEMICAL FEED SYSTEM SCHEDULE

					PUMP				PHYSICAL		
ID	MANUFACTURER AND MODEL NUMBER	LOCATION	TYPE	OPERATOR	PRESSURE RATING (PSIG)	DISCHARGE PRESSURE (PSIG)	HP	VOLT/PH/HZ	DIAMETER/ HEIGHT (IN)	TANK SIZE (GAL)	NOTES
SFS-1	POWER ENG GC7	C209	40% PPG	PREHEAT	3.8	(1)	1/3	115/1/60	23/33	50	(1)

(1) SET FILL PRESSURE TO MATCH ASSOCIATED EXPANSION TANK SCHEDULED FILL PRESSURE.

FINNED TUBE RADIATION SCHEDULE

ID	MANUFACTURER AND MODEL NUMBER	LOCATION	EFFECTIVE LENGTH (FT)	TUBE SIZE (IN)	FIN SIZE (INxIN)	MIN. HEATING LOAD/FT (BTUH/FT)	MINIMUM TUBE VELOCITY (FT/S)	FLUID FLOW PER SECTION (GPM)	AVE WATER TEMP (DEG. F)	NOTES
SFT-1	RITTLING 1"C 2-3/4"x4" -32	ROOF	24	1	2.75X4	200	1.8	4.8	130	1,2

1. COPPER-ALUMINUM ELEMENT.

2. DERATED BTUH OUTPUT SHOWN IN SCHEDULE.

NATURAL GAS REQUIREMENTS

EQUIP. NO.	QTY.	LOCATION	EQUIPMENT	EQUIP BTUH INPUT	TOTAL CFH
WH-1 & 2	**2**	**BOILER C203**	**HOT WATER HEATER**	**399,900**	**922**
WH-3	**1**	**C209**	**HOT WATER HEATER**	**80,000**	**92**
K-22	**1**	**KITCHEN**	**UNDER FIRE BROILER**	**120,000**	**138**
K-21	**1**	**KITCHEN**	**SALAMANDER BROILER**	**40,000**	**46**
K-19	**1**	**KITCHEN**	**GRIDDLE**	**90,000**	**104**
K-16	**1**	**KITCHEN**	**RANG WITH OVEN**	**243,000**	**280**
B-1 & 2	**2**	**BOILER C203**	**BOILER**	**3,000,000**	**6920**
IH-1, 2 & 3	**3**	**CONST. TECH LAB C103**	**INFRARED HEATER**	**125,000**	**433**
IH-4, 5 & 6	**3**	**WELDING LAB C107**	**INFRARED HEATER**	**125,000**	**433**
IH-7, 8 & 9	**3**	**CE & R LAB C121**	**INFRARED HEATER**	**150,000**	**519**

TOTAL (BTUH) = **8,572,800**
BTU/CUBIC FT. = 867
TOTAL CFH= **9888**

NEW 2 PSIG GAS METER TO BE INSTALLED BY GAS SUPPLIER AND PAID FOR BY CONTRACTOR.

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project:
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88 South Tooele Blvd
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date: 1/20/11

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PLUMBING SCHEDULES

sheet:

PE601

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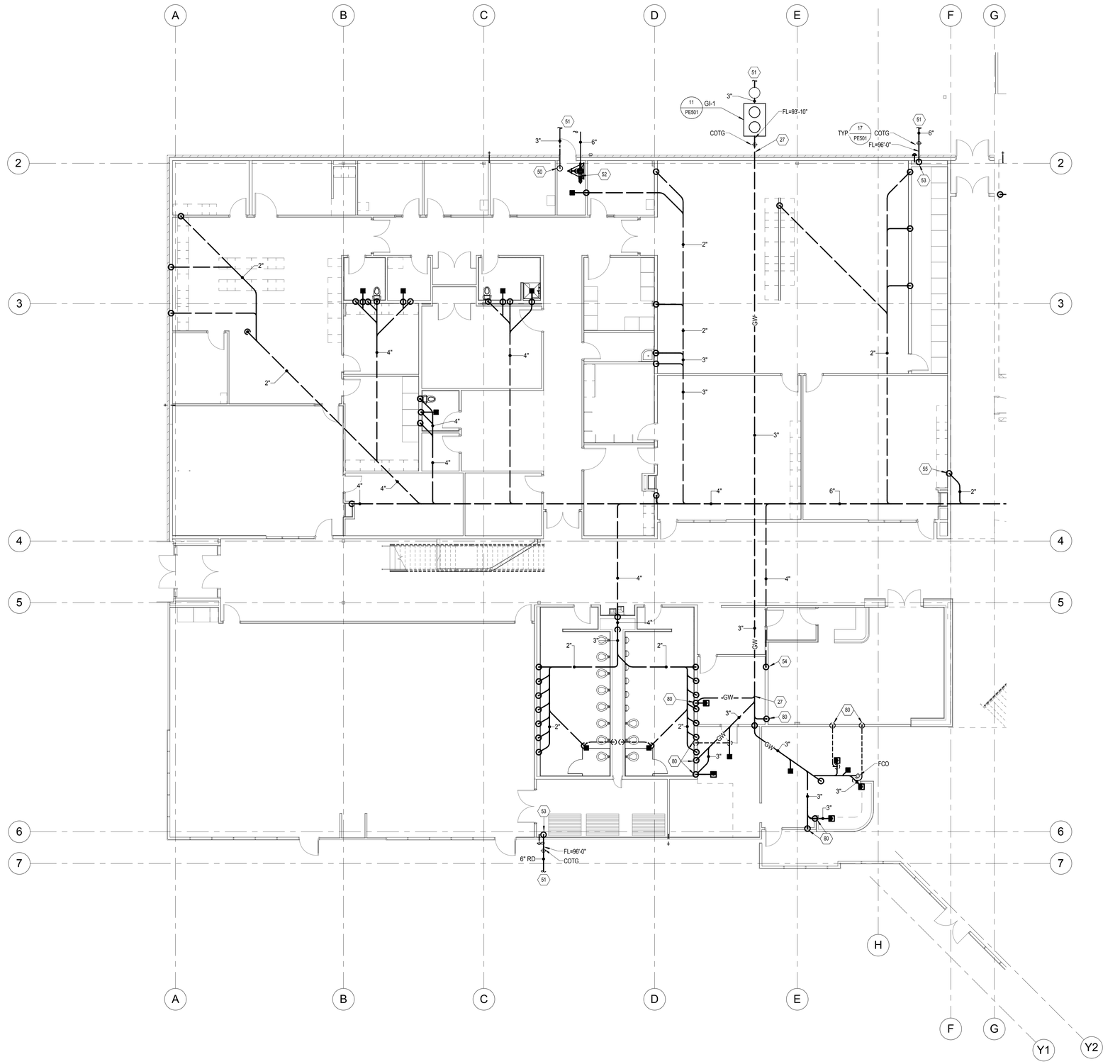
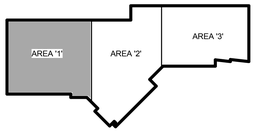


1 BELOW GRADE PLUMBING PLAN 1
SCALE: 1/8" = 1'-0"

SHEET KEYNOTES

27	SLOPE GREASE WASTE 1/2" PER LINEAR FOOT ACROSS BUILDING.
50	DOMESTIC WATER SERVICE TO THE BUILDING. RISE UP TO WATER HEADER.
51	SEE CIVIL PLANS FOR CONTINUATION.
52	FIRE PROTECTION WATER LINE TO FIRE RISER.
53	ROOF DRAIN PIPING FROM ABOVE.
54	4" WASTE LINE FROM AVOVE.
55	2" WASTE LINE FROM ABOVE.
80	VENT LINE UP IN WALL.



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BELOW GRADE PLUMBING PLAN 1

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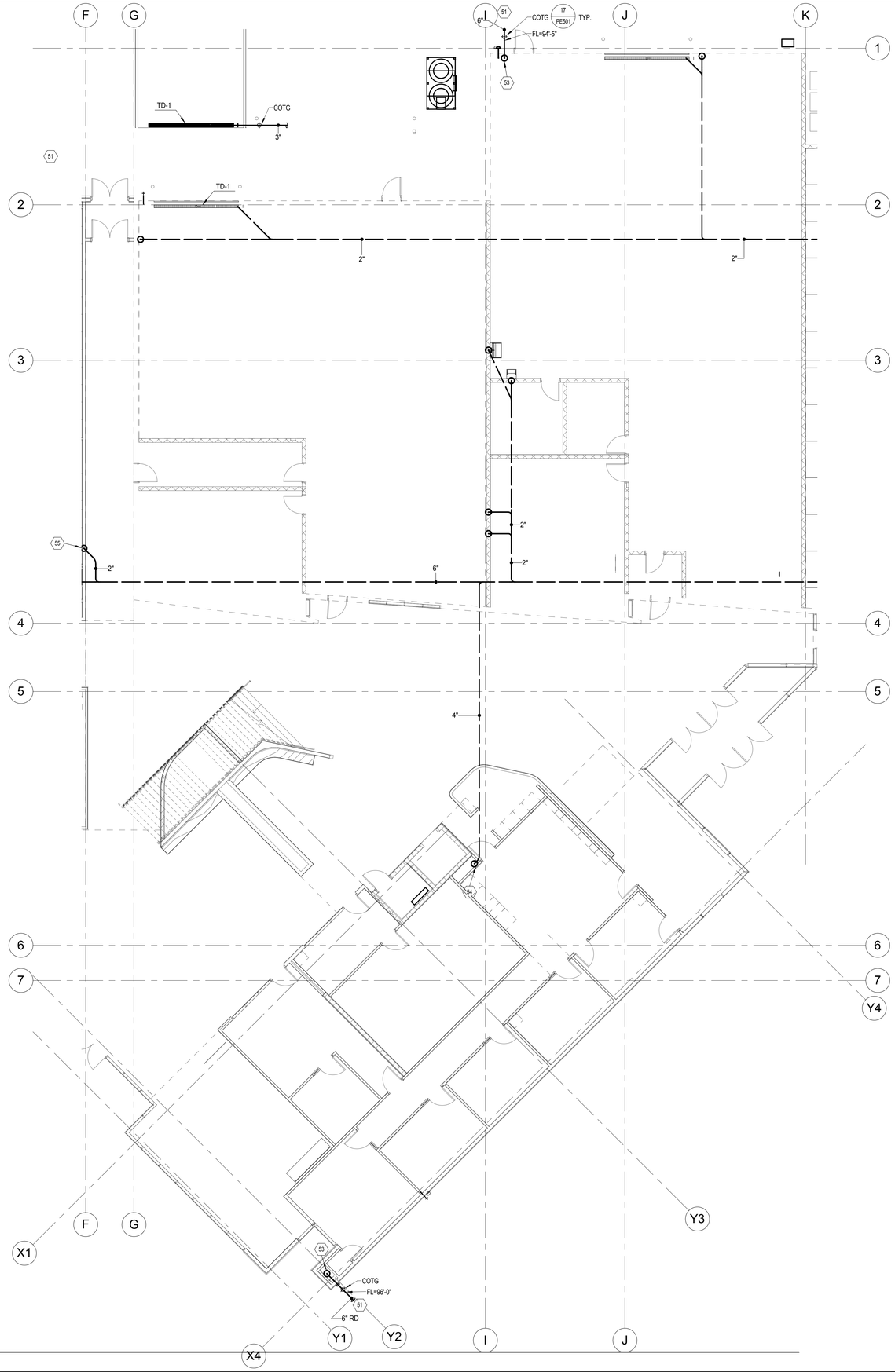

1 BELOW GRADE PLUMBING PLAN 2
SCALE: 1/8" = 1'-0"

SHEET KEYNOTES

51 SEE CIVIL PLANS FOR CONTINUATION.

53 ROOF DRAIN PIPING FROM ABOVE.

54 4" WASTE LINE FROM AVOVE.

55 2" WASTE LINE FROM ABOVE.

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BELOW GRADE PLUMBING PLAN 2

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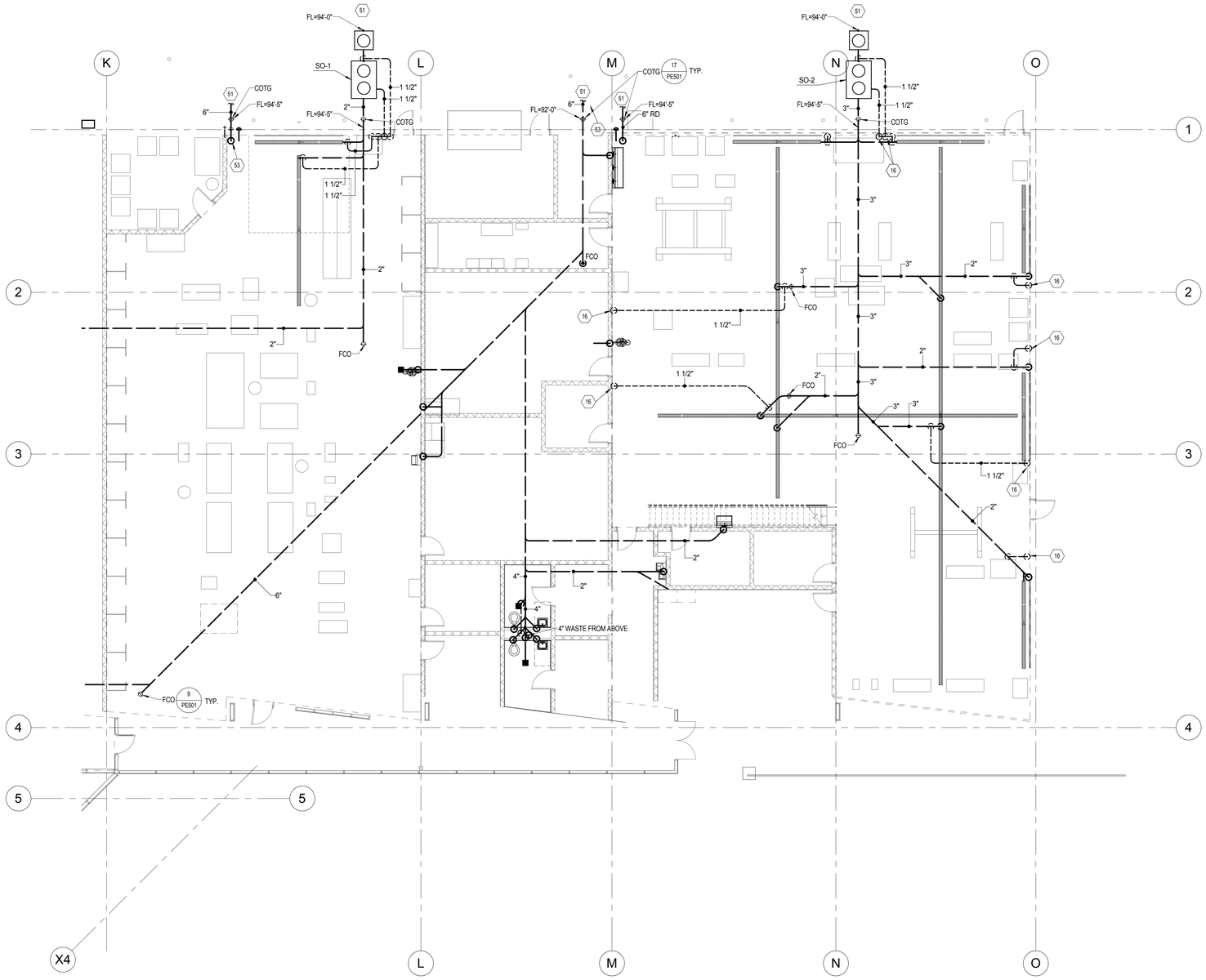
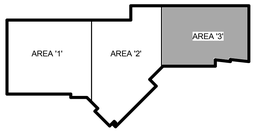


1 BELOW GRADE PLUMBING PLAN 3
SCALE: 1/8" = 1'-0"

SHEET KEYNOTES

16	VENT LINE UP.
51	SEE CIVIL PLANS FOR CONTINUATION.
53	ROOF DRAIN PIPING FROM ABOVE.



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BELOW GRADE PLUMBING PLAN 3

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PL103

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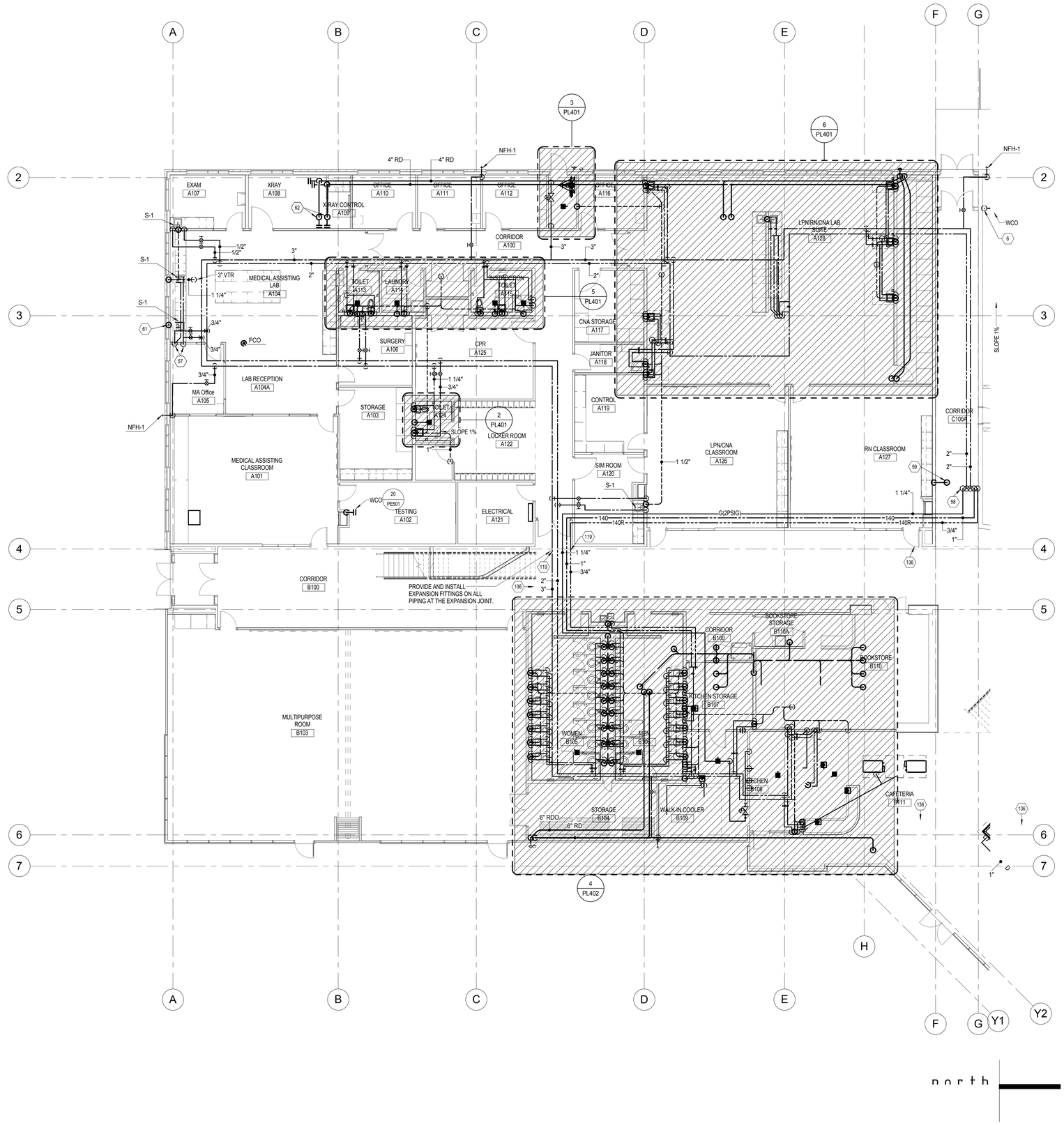
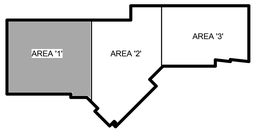


1 Lvl 1 Plumbing Plan 1
SCALE: 1/8" = 1'-0"

SHEET KEYNOTES

6	1 1/2" VENT UP AND DOWN.
57	DROP DOMESTIC HOT AND COLD WATER PIPING DOWN IN WALL AND EXTEND TO FIXTURES IN CABINET SPACES.
58	DOMESTIC HOT, COLD, 140 AND 140 RECIRCULATION PIPING AND GAS PIPING UP. SEE SHEET PL121 FOR CONTINUATION.
59	1-1/2" WASTE LINE FROM ABOVE. 2" WASTE BELOW GRADE.
61	PROVIDE AND INSTALL AIR ADMITTANCE VALVE PER IPC 2009.
62	TO ROOF DRAIN AND ROOF DRAIN OVERFLOW.
119	PROVIDE AND INSTALL EXPANSION FITTINGS ON ALL PIPING AT THE EXPANSION JOINT.
120	DROP ¾" CONDENSATE DRAIN LINE DOWN TO FLOOR NEXT TO TRENCH DRAIN.
136	PROVIDE CONCEALED TYPE FIRE SPRINKLER HEADS IN ALL MAIN ENTRY, LOBBY, COORIDOR & PUBLIC AREAS WITH CEILING. TYPICAL.



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LEVEL 1 PLUMBING PLAN 1

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PL111

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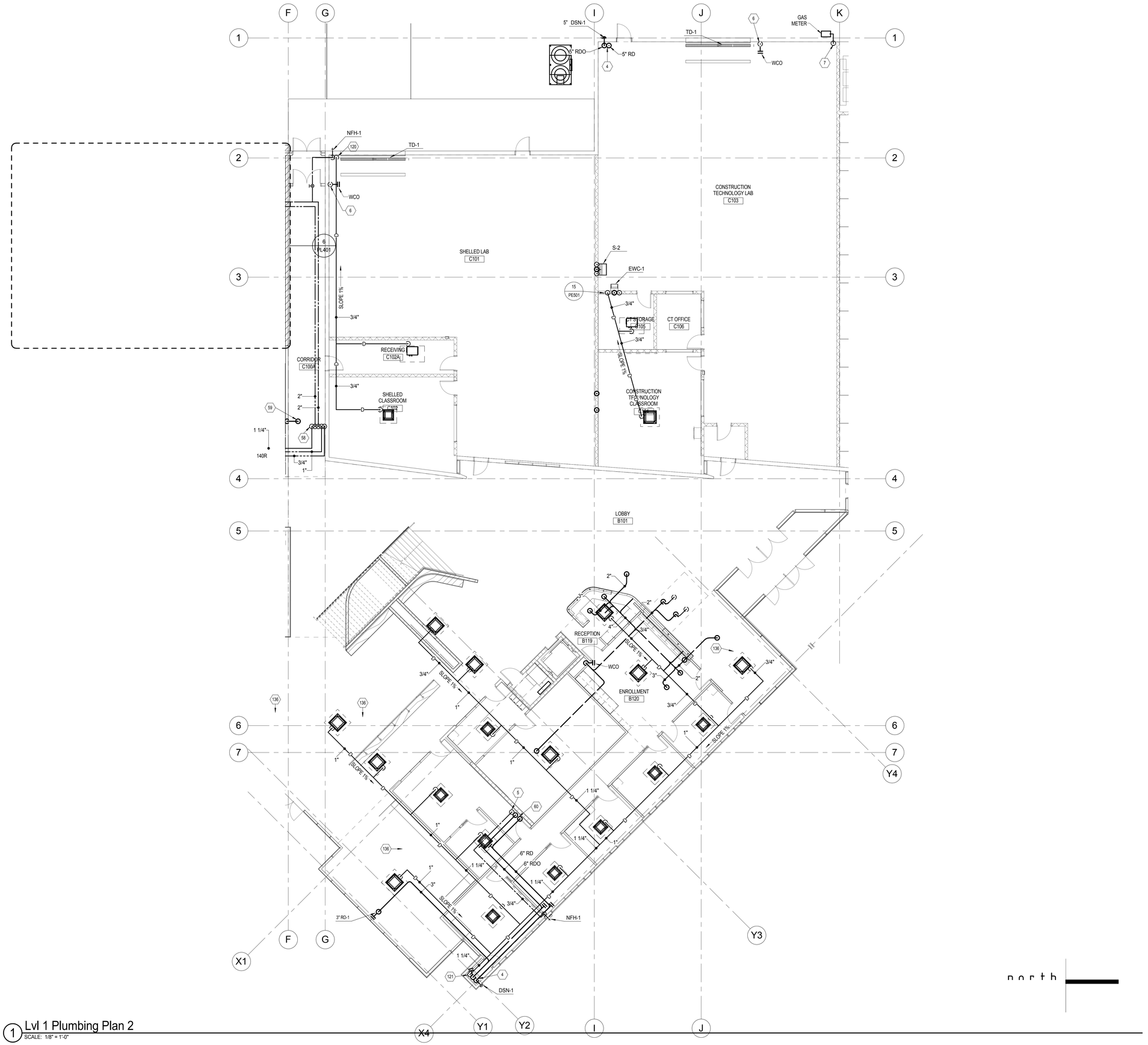

1 Lvl 1 Plumbing Plan 2
SCALE: 1/8" = 1'-0"

SHEET KEYNOTES

4 ROOF DRAIN PIPING UP AND DOWN. ROOF DRAIN OVERFLOW PIPING TO DOWNSPOUT NOZZLE.

5 3/4" COLD WATER LINE FROM ABOVE.

6 1 1/2" VENT UP AND DOWN.

7 GAS LINE UP.

58 DOMESTIC HOT, COLD, 140 AND 140 RECIRCULATION PIPING AND GAS PIPING UP. SEE SHEET PL121 FOR CONTINUATION.

59 1-1/2" WASTE LINE FROM ABOVE. 2" WASTE BELOW GRADE.

60 ROOF DRAIN AND ROOF DRAIN OVERFLOW FROM ABOVE.

120 DROP ¾" CONDENSATE DRAIN LINE DOWN TO FLOOR NEXT TO TRENCH DRAIN.

121 CONNECT 1 ¼" CONDENSATE PIPING FROM ABOVE TO 1 ¼" CONDENSATE FROM THIS LEVEL AND TRANSITION TO 1 ½" DROP DOWN AND CONNECT TO RAIN WATER PIPING. DROP 1 ½" CONDENSATE DRAIN DOWN SHAFT AND CONNECT TO RAIN WATER PIPING 8'-0" ABOVE FINISHED FLOOR.

136 PROVIDE CONCEALED TYPE FIRE SPRINKLER HEADS IN ALL MAIN ENTRY, LOBBY, COORIDOR & PUBLIC AREAS WITH CEILING. TYPICAL.

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LEVEL 1 PLUMBING PLAN 2

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PL112

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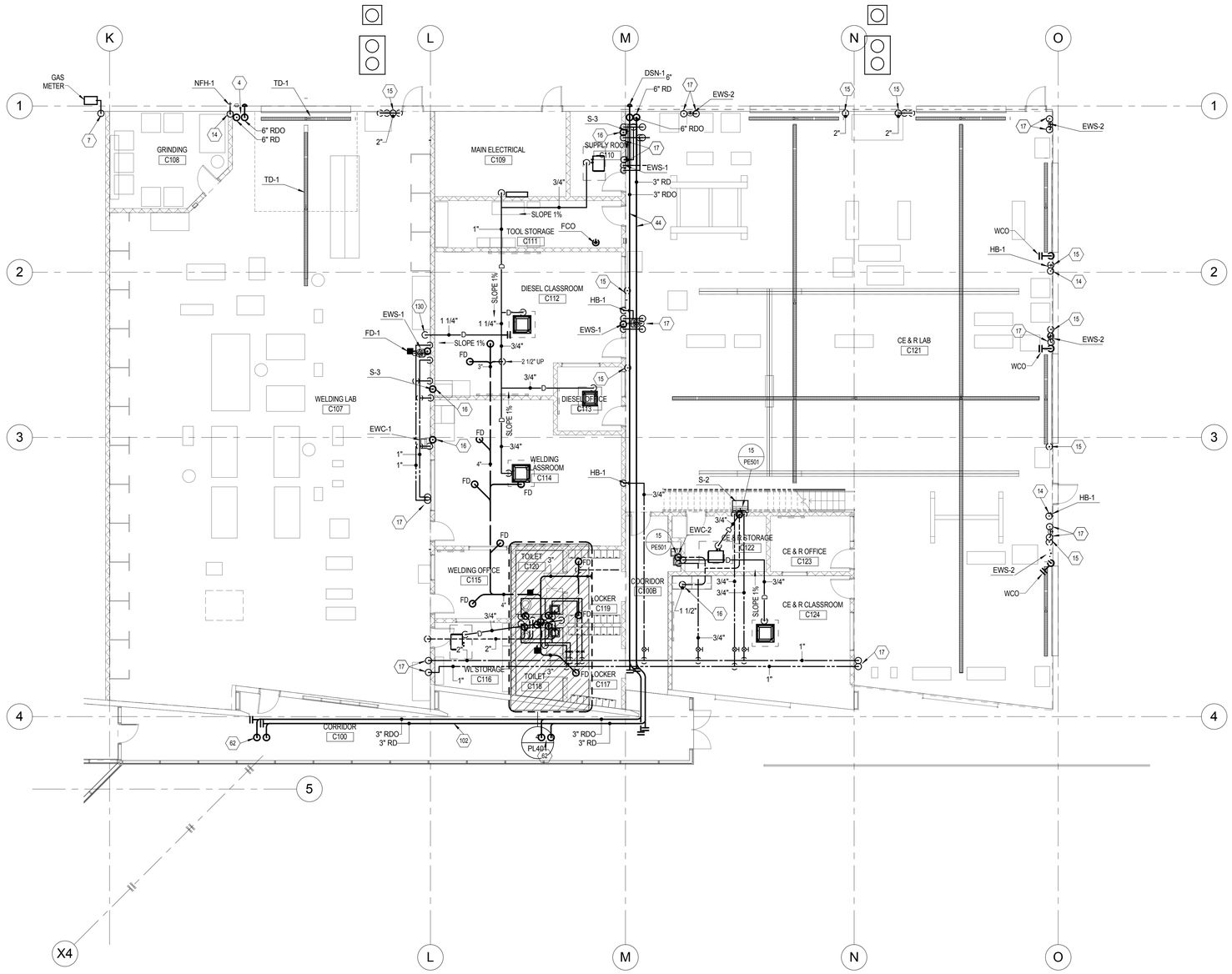
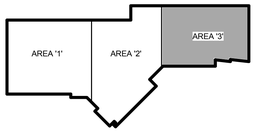


1 Lvl 1 Plumbing Plan 3
SCALE: 1/8" = 1'-0"

SHEET KEYNOTES

4	ROOF DRAIN PIPING UP AND DOWN. ROOF DRAIN OVERFLOW PIPING TO DOWNSPOUT NOZZLE.
7	GAS LINE UP.
14	COLD WATER FROM ABOVE.
15	VENT LINE UP & DOWN.
16	VENT LINE UP.
17	DOMESTIC HOT AND COLD WATER PIPING FROM ABOVE.
44	INSTALL EXPOSED RD AND RDO LINES ON WALL ONE BELOW THE OTHER. SHOWN SIDE BY SIDE FOR CLARITY.
62	TO ROOF DRAIN AND ROOF DRAIN OVERFLOW.
102	FLAT PLATE SOLAR COLLECTORS INSTALLED WEIGHT IS 1600 LBS.
130	1 ½" CONDENSATE DRAIN DOWN IN WALL. STUB OUT AT FLOOR LEVEL AND EXTEND TO FLOOR SINK.



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LEVEL 1 PLUMBING PLAN 3

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PL113

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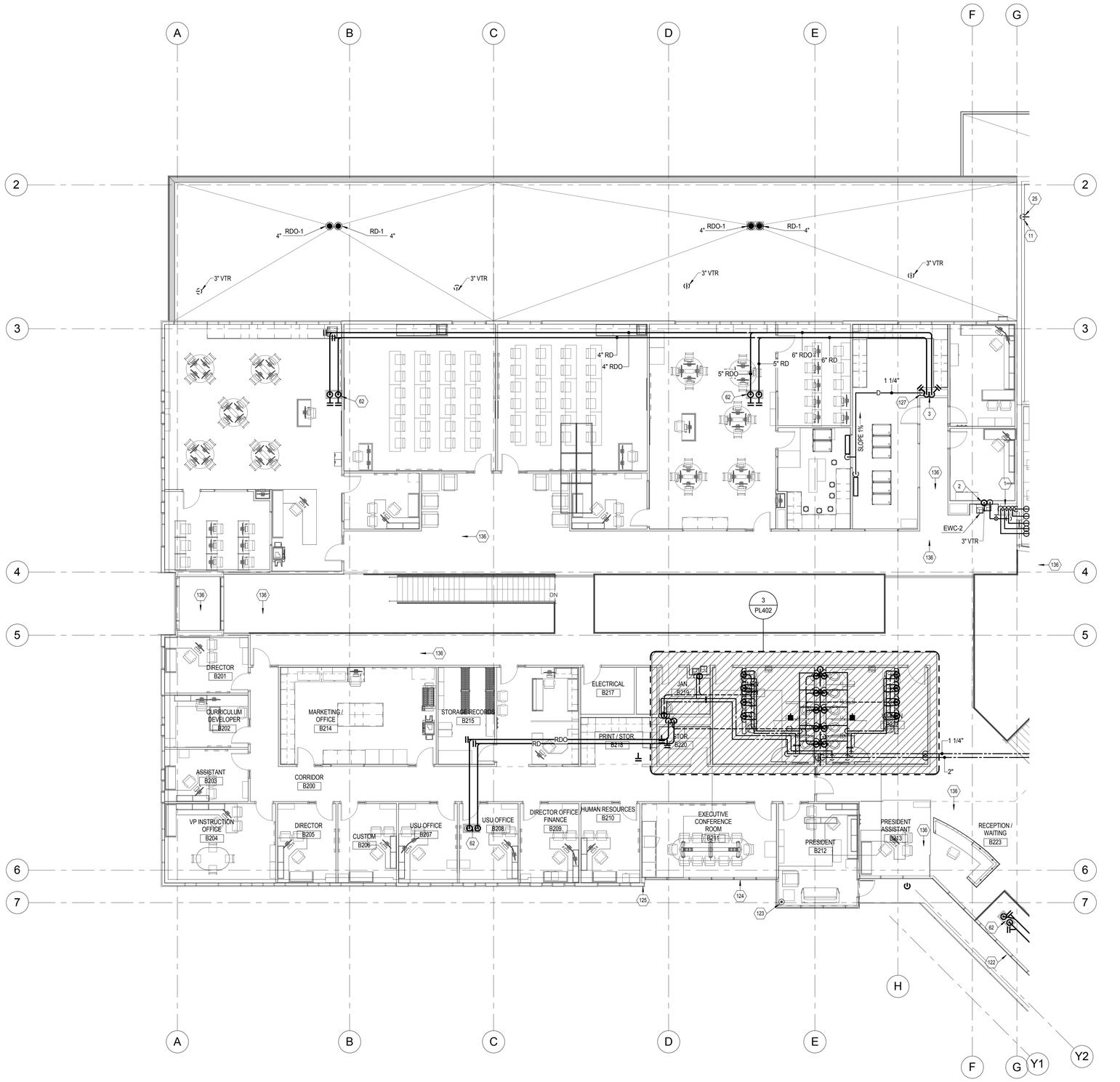


1 Lvl 2 Plumbing Plan 1
SCALE: 1/8" = 1'-0"

SHEET KEYNOTES

1 DOMESTIC HOT, COLD, 140, AND 140 RECIRCULATION PIPING AND GAS PIPING DOWN. SEE SHEET PL111 FOR CONTINUATION.

2 1 1/2" WASTE LINE DOWN.

3 ROOF DRAIN AND ROOF DRAIN OVERFLOW DOWN.

11 1 1/2" VENT FROM BELOW.

25 SURFACE MOUNT PIPING ON WALL. OFFSET TO SURFACE MOUNT ON FURRED OUT WALL ABOVE.

62 TO ROOF DRAIN AND ROOF DRAIN OVERFLOW.

122 720 WATTS HEAT TRACING FOR RAIN GUTTER OVER PRESIDENTS WALKWAY.

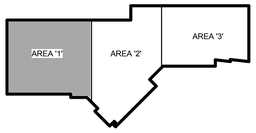
123 220 WATTS HEAT TRACING FOR RAIN GUTTER OVER PRESIDENTS OFFICE.

124 250 WATTS HEAT TRACING FOR RAIN GUTTER NEXT TO PRESIDENTS OFFICE.

125 400 WATTS HEAT TRACING FOR DOWN SPOUT NEXT TO PRESIDENTS OFFICE. COORDINATE EXACT LOCATION WITH ARCHITECT.

127 DROP 1 ¼" CONDENSATE DRAIN DOWN SHAFT AND CONNECT TO RAIN WATER PIPING 4'-0" ABOVE FINISHED FLOOR.

136 PROVIDE CONCEALED TYPE FIRE SPRINKLER HEADS IN ALL MAIN ENTRY, LOBBY, COORIDOR & PUBLIC AREAS WITH CEILING. TYPICAL.



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LEVEL 2 PLUMBING PLAN 1

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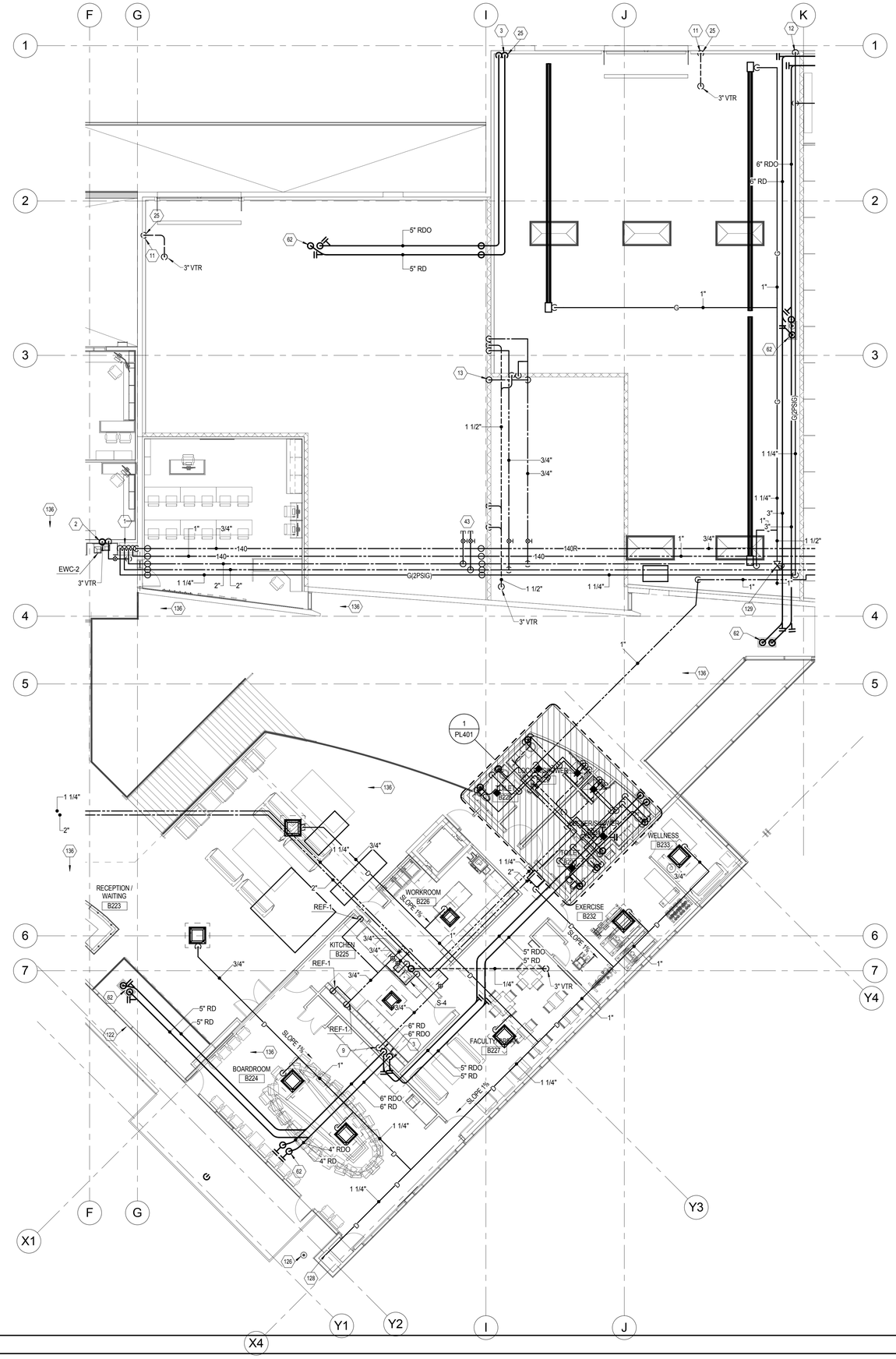

1 Lvl 2 Plumbing Plan 2
SCALE: 1/8" = 1'-0"

SHEET KEYNOTES

1 DOMESTIC HOT, COLD, 140, AND 140 RECIRCULATION PIPING AND GAS PIPING DOWN. SEE SHEET PL111 FOR CONTINUATION.

2 1 1/2" WASTE LINE DOWN.

3 ROOF DRAIN AND ROOF DRAIN OVERFLOW DOWN.

9 3/4" COLD WATER LINE DOWN.

11 1 1/2" VENT FROM BELOW.

12 GAS LINE FROM BELOW.

13 COLD WATER LINE UP TO NFH-1 ON ROOF.

25 SURFACE MOUNT PIPING ON WALL. OFFSET TO SURFACE MOUNT ON FURRED OUT WALL ABOVE.

43 CAPPED FOR FUTURE EXPANSION.

62 TO ROOF DRAIN AND ROOF DRAIN OVERFLOW.

122 720 WATTS HEAT TRACING FOR RAIN GUTTER OVER PRESIDENTS WALKWAY.

126 400 WATTS HEAT TRACING FOR DOWN SPOUT NEXT TO BOARD ROOM B224. COORDINATE EXACT LOCATION WITH ARCHITECT.

128 1 ¼" CONDENSATE DRAIN PIPING DOWN TO FIRST LEVEL.

129 2 PSIG TO 4 OZ GAS PRESSURE REGULATOR. VENT TO OUTSIDE. LOAD: 433 CFH.

136 PROVIDE CONCEALED TYPE FIRE SPRINKLER HEADS IN ALL MAIN ENTRY, LOBBY, COORIDOR & PUBLIC AREAS WITH CEILING. TYPICAL.

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LEVEL 2 PLUMBING PLAN 2

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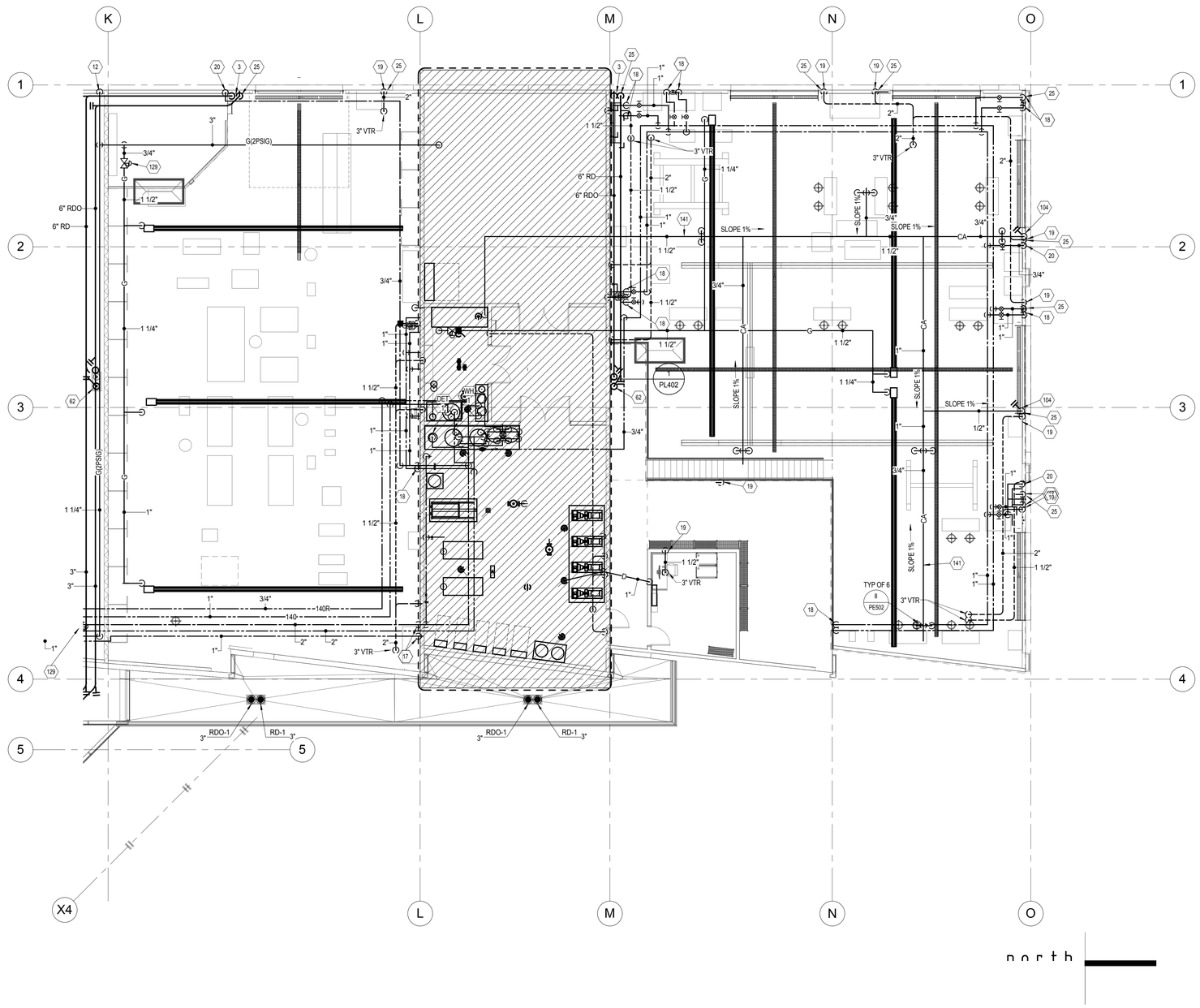


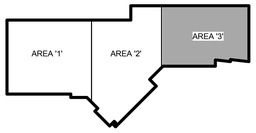
1 Lvl 2 Plumbing Plan 3
SCALE: 1/8" = 1'-0"

SHEET KEYNOTES

3	ROOF DRAIN AND ROOF DRAIN OVERFLOW DOWN.
12	GAS LINE FROM BELOW.
17	DOMESTIC HOT AND COLD WATER PIPING FROM ABOVE.
18	DOMESTIC HOT AND COLD WATER PIPING DOWN.
19	VENT FROM BELOW.
20	COLD WATER DOWN.
25	SURFACE MOUNT PIPING ON WALL. OFFSET TO SURFACE MOUNT ON FURRED OUT WALL ABOVE.
62	TO ROOF DRAIN AND ROOF DRAIN OVERFLOW.
104	1/2" BLOW DOWN VALVE. 7'-0" AFF.
129	2 PSIG TO 4 OZ GAS PRESSURE REGULATOR. VENT TO OUTSIDE. LOAD: 433 CFH.
141	BID ALTERNATE NO. 4: COMPRESSED AIR SYSTEM TO BE BID AS AN ALTERNATE.

PL123 GENERAL SHEET NOTES

1	BID ALTERNATE NO. 4: ALL ITEMS ASSOCIATED WITH THE COMPRESSED AIR SYSTEM SHALL BE BID AS AN ALTERNATE.



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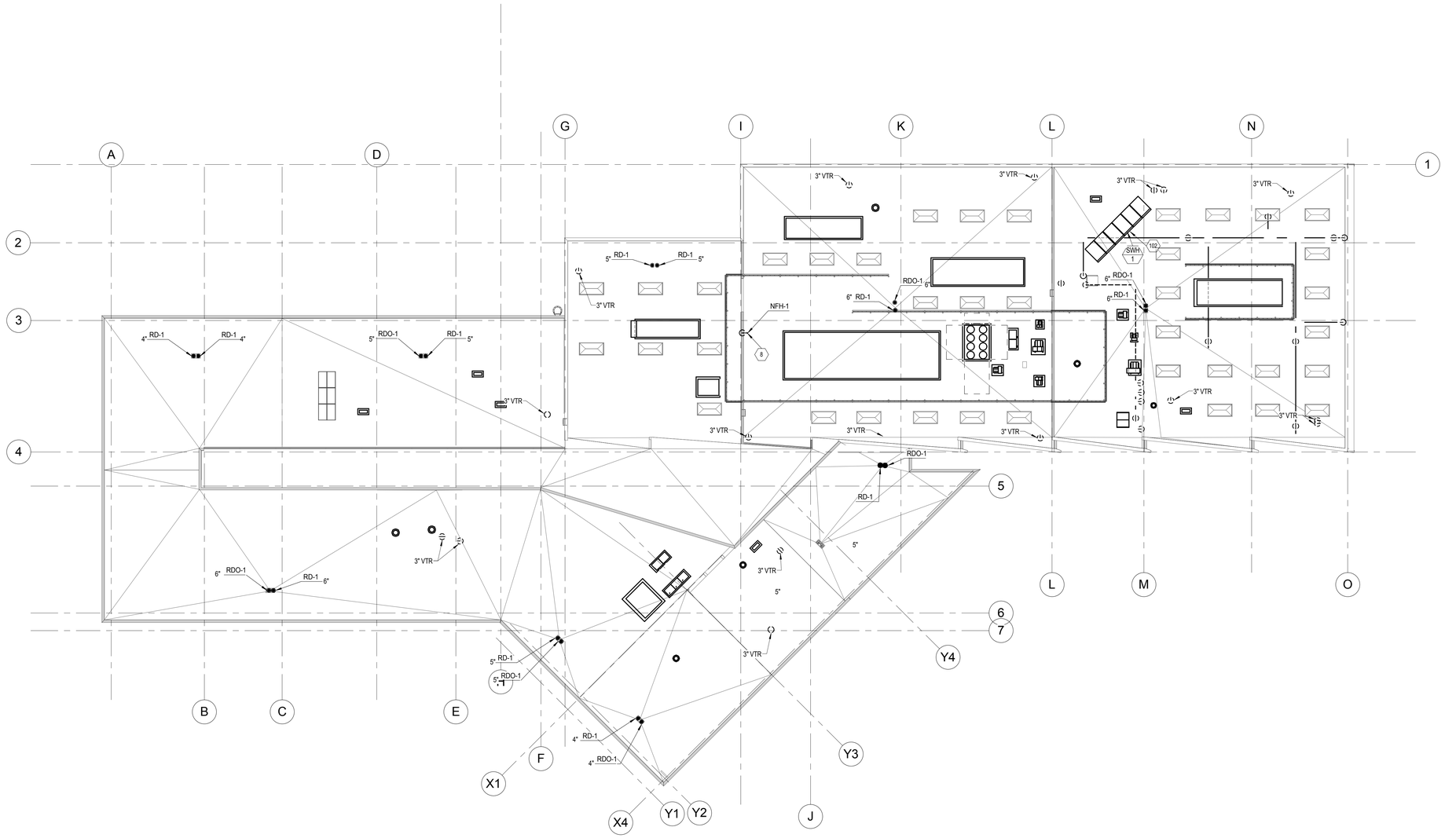

north

1 ROOF PLUMBING PLAN
SCALE: 1/16" = 1'-0"

SHEET KEYNOTES

8	INSTALL NON-FREEZE HYDRANT ABOVE ROOF IN RECESSED AREA.
102	FLAT PLATE SOLAR COLLECTORS INSTALLED WEIGHT IS 1600 LBS.

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project:
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88 South Tooele Blvd
Tooele, UT 84074

project#: 11.0420
date: 1/10/11

revisions :

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ROOF PLUMBING PLAN

sheet:

PL130

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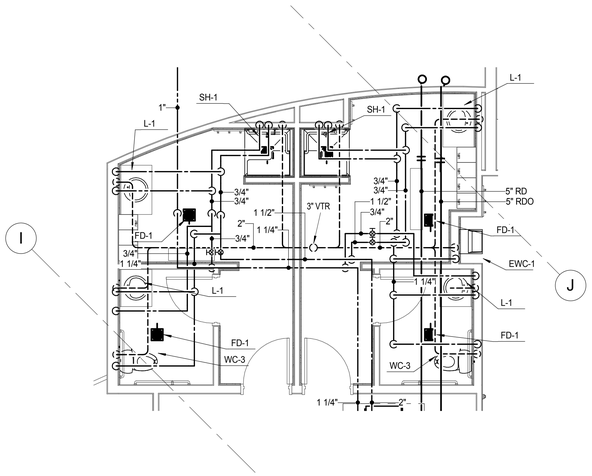
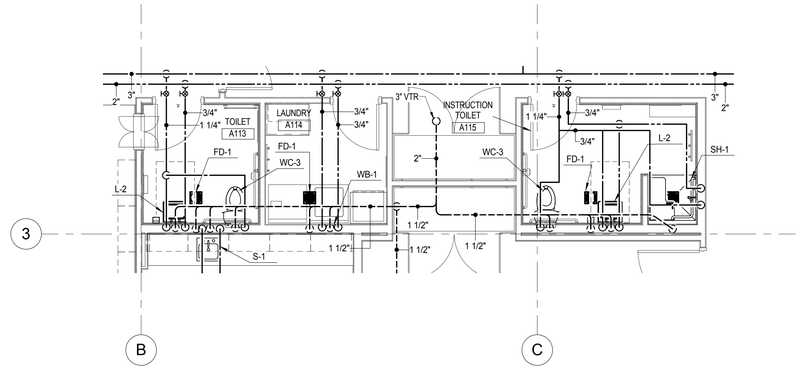
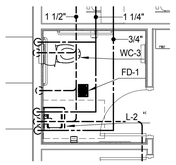


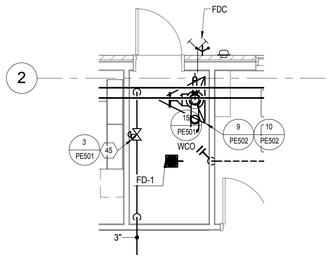
1 LOCKER SHOWER B229, B231
SCALE: 1/4" = 1'-0"



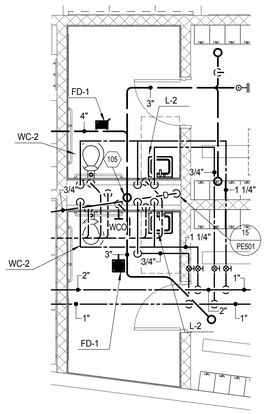
5 TOILET A113, LAUNDRY A114, INSTRUCTION TOILET A115
SCALE: 1/4" = 1'-0"



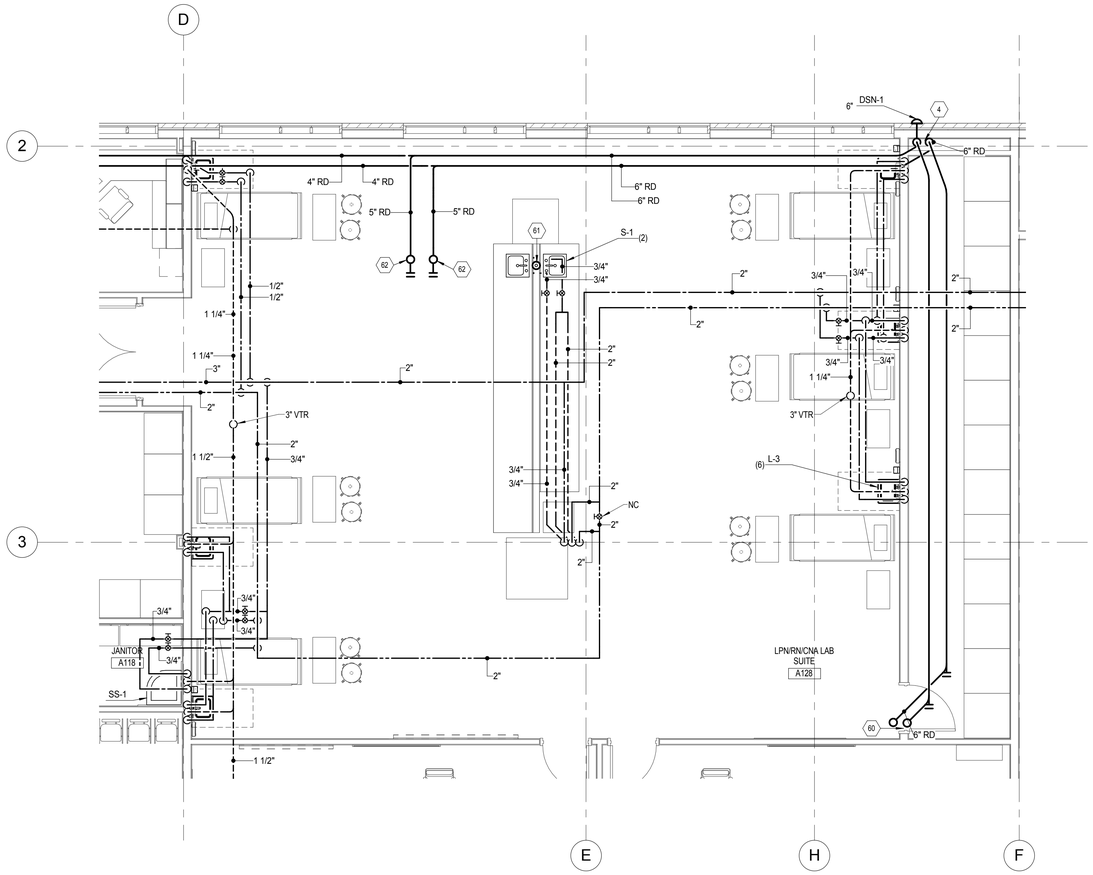
2 TOILET A124
SCALE: 1/4" = 1'-0"



3 FIRE RISER ROOM A130
SCALE: 1/4" = 1'-0"



4 TOILET C120, TOILET C118
SCALE: 1/4" = 1'-0"



6 LPN/RN/CNA LAB/SUITE A128
SCALE: 1/4" = 1'-0"

SHEET KEYNOTES

4	ROOF DRAIN PIPING UP AND DOWN. ROOF DRAIN OVERFLOW PIPING TO DOWNSPOUT NOZZLE.
45	WATER HEADER
60	ROOF DRAIN AND ROOF DRAIN OVERFLOW FROM ABOVE.
61	PROVIDE AND INSTALL AIR ADMITTANCE VALVE PER IPC 2009.
62	TO ROOF DRAIN AND ROOF DRAIN OVERFLOW.
105	4" WASTE FROM ABOVE AND DOWN.

LICENSED PROFESSIONAL ENGINEER
No. 275661
RAYMOND D. VERNON
STATE OF UTAH

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LARGE SCALE PLUMBING PLANS

sheet:

PL401

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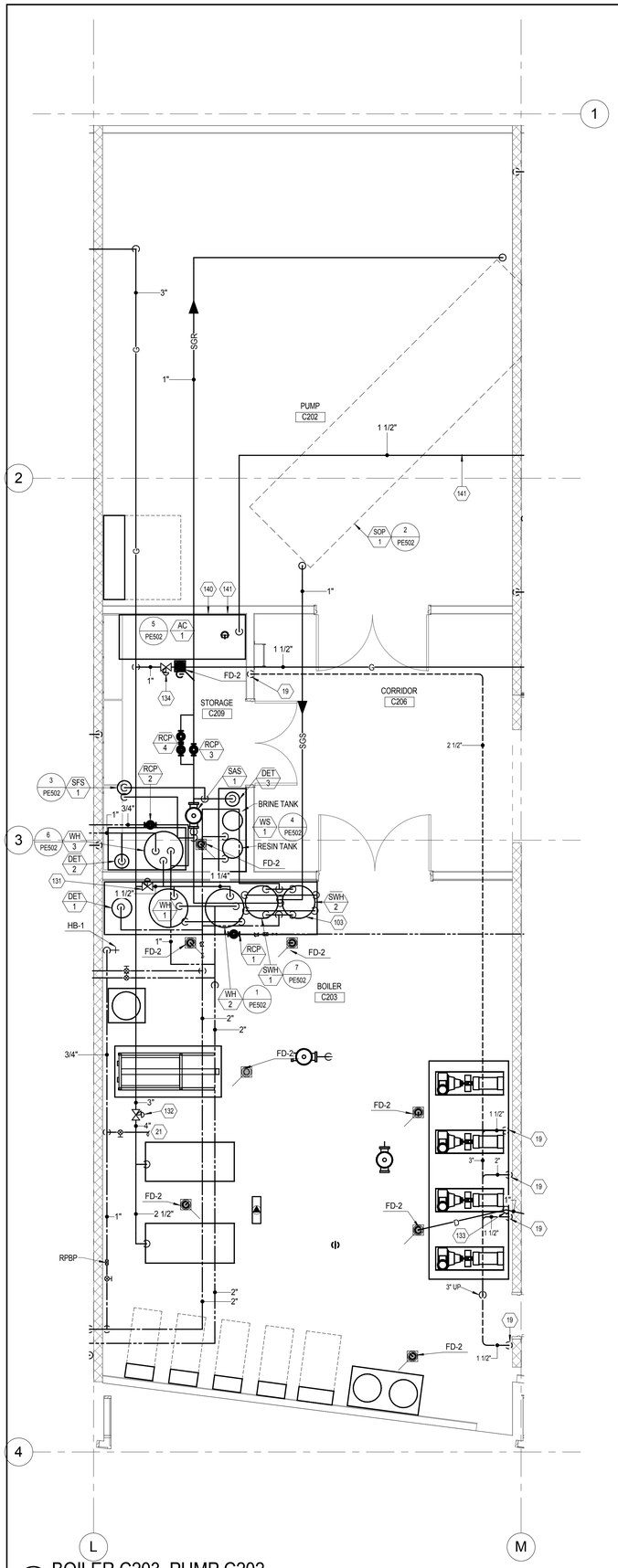
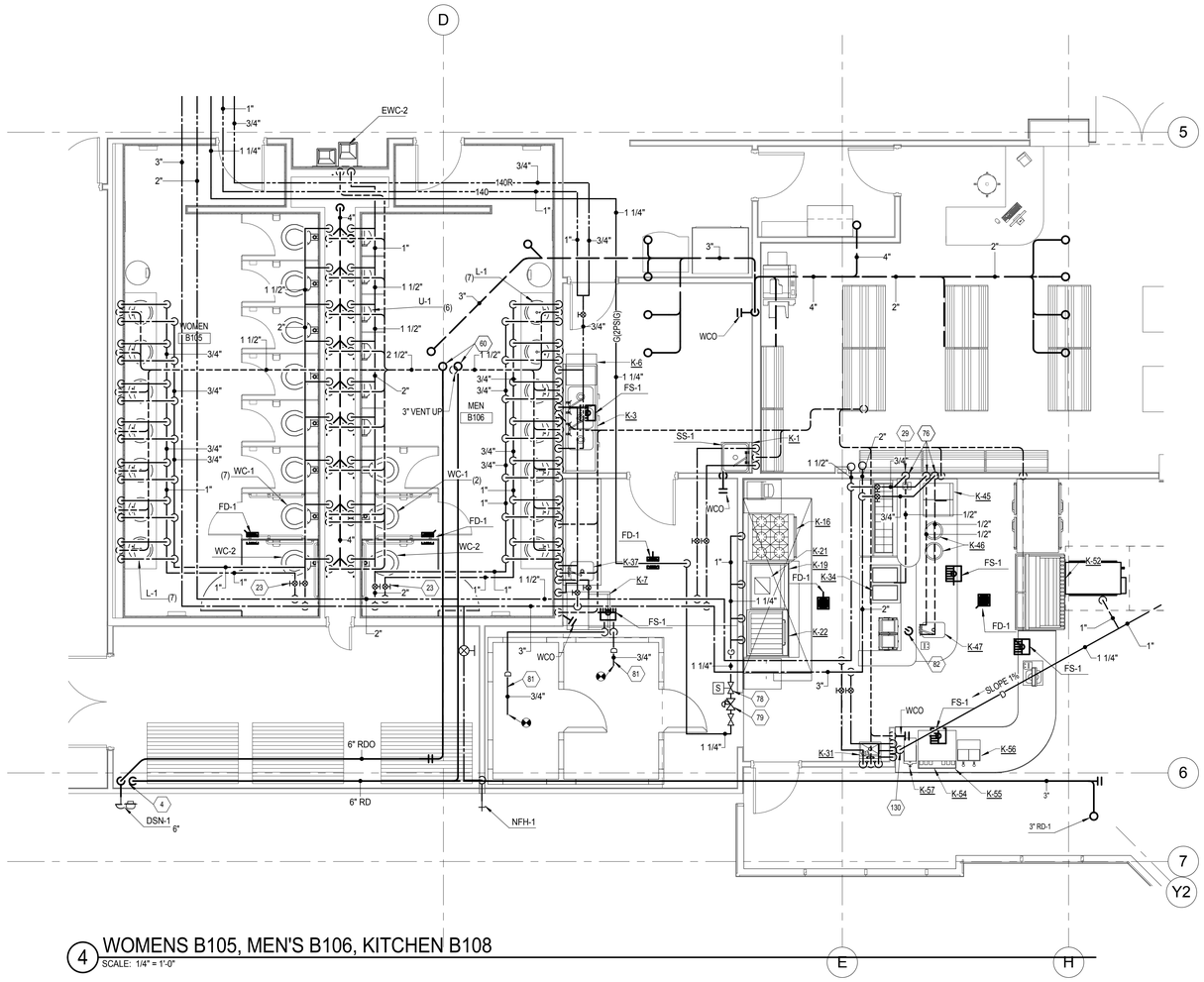
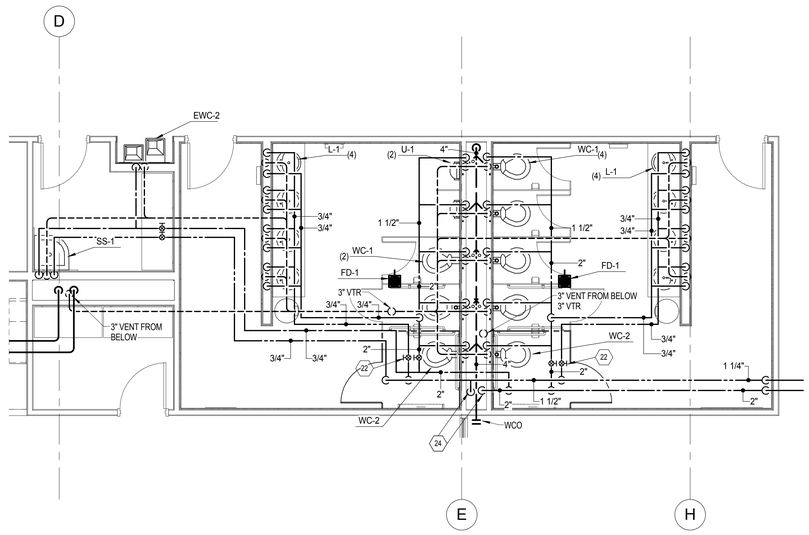


1 BOILER C203, PUMP C202
SCALE: 1/4" = 1'-0"



4 WOMENS B105, MEN'S B106, KITCHEN B108
SCALE: 1/4" = 1'-0"



3 MEN B221, WOMEN B222
SCALE: 1/4" = 1'-0"

PL402 GENERAL SHEET NOTES

1 PLUMBING CONTRACTOR SHALL PROVIDE AND INSTALL ALL NECESSARY VALVES, TRAPS, TAIL PIECES, LINE STRAINERS, PRESSURE REDUCING VALVES, AND VACUUM BREAKERS AND CONNECT ALL WATER, FUEL GAS, AND WASTE LINES TO FOOD SERVICE AND BEVERAGE EQUIPMENT.

2 PLUMBING CONTRACTOR SHALL PROVIDE AND INSTALL GAS SHUT OFF VALVE AT EACH GAS FIRED PEICE OF EQUIPMENT. COORDINATE WITH KITCHEN CONTRACTOR FOR LOCATION.

3 BID ALTERNATE NO. 4: ALL ITEMS ASSOCIATED WITH THE COMPRESSED AIR SYSTEM SHALL BE BID AS AN ALTERNATE.

SHEET KEYNOTES

4 ROOF DRAIN PIPING UP AND DOWN. ROOF DRAIN OVERFLOW PIPING TO DOWNSPOUT NOZZLE.

19 VENT FROM BELOW.

21 TO BOILER MAKE-UP WATER.

22 COORDINATE LOCATION WITH CEILING ACCESS PANEL.

23 INSTALL ISOLATION VALVES IN PLUMBING CHASE. SHOWN OUTSIDE FOR CLARITY.

24 DOMESTIC HOT AND COLD WATER DOWN. SEE 4/PL402 FOR CONTINUATION.

29 PLUMBING CONTRACTOR SHALL PROVIDE AND INSTALL NON-SPILL VACUUM BREAKER ABOVE CEILING.

60 ROOF DRAIN AND ROOF DRAIN OVERFLOW FROM ABOVE.

76 DROP HOT AND COLD WATER DOWN IN WALL AND EXTEND UNDER COUNTER TO FIXTURES.

78 GAS SHUTOFF VALVE, PROVIDED BY KITCHEN CONTRACTOR, INSTALLED BY PLUMBING CONTRACTOR.

79 2 PSIG TO 4 OZ GAS PRESSURE REGULATOR. VENT TO OUTSIDE. INSTALL REGULATOR BELOW CEILING. LOAD: 569 CFH.

81 HEAT TRACE AND INSULATE CONDENSATE LINE IN COOLER 3 WATTS PER LINEAL FOOT. HEAT TRACING SHALL BE SELF ACCUTATING.

82 PROVIDE AND INSTALL AIR ADMITTANCE VALVE PER IPC 2009.

103 SOLAR WATER HEATER INSTALLED WEIGHT IS 1400 LBS EACH.

130 1 ½" CONDENSATE DRAIN DOWN IN WALL. STUB OUT AT FLOOR LEVEL AND EXTEND TO FLOOR SINK.

131 2 PSIG TO 4 OZ GAS PRESSURE REGULATOR. VENT TO OUTSIDE. LOAD: 1015 CFH.

132 2 PSIG TO 4 OZ GAS PRESSURE REGULATOR. VENT TO OUTSIDE. LOAD: 6920 CFH.

133 DROP 1" CONDENSATE DRAIN DOWN WALL AND EXTEND TO FLOOR DRAIN.

134 2 PSIG TO 4 OZ GAS PRESSURE REGULATOR. VENT TO OUTSIDE. LOAD: 519 CFH.

140 AIR COMPRESSOR. OWNER FURNISHED. CONTRACTOR INSTALLED.

141 BID ALTERNATE NO. 4: COMPRESSED AIR SYSTEM TO BE BID AS AN ALTERNATE.

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SYMBOLS LEGEND

SYMBOL	DESCRIPTION
	REFERENCE AND LINE SYMBOLS
A5 / E-501	DETAIL INDICATOR: A5 INDICATES DETAIL NUMBER, E-501 INDICATES DRAWING SHEET WHERE DETAIL IS SHOWN.
A5 / E-201	ELEVATION OR SECTION INDICATOR, EXTERIOR: A5 INDICATES ELEVATION OR SECTION NUMBER, E-201 INDICATES DRAWING SHEET WHERE ELEVATION OR SECTION IS SHOWN.
A5 / E-201	ELEVATION OR SECTION INDICATOR, INTERIOR: A5 INDICATES ELEVATION OR SECTION NUMBER, E-201 INDICATES DRAWING SHEET WHERE ELEVATION OR SECTION IS SHOWN.
100	ROOM OR SPACE NUMBER.
1	KEYNOTE INDICATOR.
1	REVISION INDICATOR.
CU-1	EQUIPMENT INDICATOR.
	BREAK, STRAIGHT: TO BREAK PARTS OF DRAWING.
	BREAK, ROUND.
MATCH LINE / SEE XX/X-XXX	MATCH LINE INDICATOR: CENTER, EXTRA WIDE LINE.
	NEW LINE: MEDIUM LINE.
	HIDDEN FEATURES LINE: HIDDEN, THIN LINE.
	EXISTING TO REMAIN LINE: THIN LINE.
	DEMOLITION LINE: DASHED, MEDIUM LINE.
	PROPERTY LINE: DASHED, WIDE LINE.
	CONTRACT LIMIT LINE: DASHDOT, WIDE LINE.
	WIRING METHODS
	WIRING.
	WIRING TURNED UP OR TOWARDS OBSERVER.
	WIRING TURNED DOWN OR AWAY FROM OBSERVER.
A-1,3,5	BRANCH CIRCUIT HOME RUN TO PANELBOARD: NUMBER OF ARROWS INDICATES NUMBER OF CIRCUITS. LETTER AND NUMBER NOTATIONS IDENTIFY PANEL AND CIRCUIT NUMBERS. USE #12 CONDUCTORS, EXCEPT #10 CONDUCTORS SHALL BE INSTALLED IF DISTANCES EXCEED THOSE SPECIFIED IN THE ELECTRICAL SPECIFICATIONS.
1 A-1,3,5	BRANCH CIRCUIT HOME RUN TO PANELBOARD: NUMBER OF ARROWS INDICATES NUMBER OF CIRCUITS. LETTER AND NUMBER NOTATIONS IDENTIFY PANEL AND CIRCUIT NUMBERS. NUMBER IN BOX REFERS TO THE CONDUCTOR AND CONDUIT SCHEDULE. FOR BRANCH WIRING USE #12 CONDUCTORS, EXCEPT #10 CONDUCTORS SHALL BE INSTALLED IF DISTANCES EXCEED THOSE SPECIFIED IN THE ELECTRICAL SPECIFICATIONS.
— X —	WIRING AND/OR RACEWAY: THIN LINE. WHERE "X" = : CATV = CABLE TELEVISION; CCTV = CLOSED CIRCUIT TELEVISION; FA = FIRE ALARM; FO = FIBER OPTICS; I = INTERCOM; NC = NURSE CALL; P = POWER; RC = RIGID CONDUIT; S = SOUND; T = TELEPHONE; TV = TELEVISION OTHERS AS NOTED IN OTHER SCHEDULES. RACEWAYS AND WIRING SHALL BE SIZED AS SHOWN AND/OR SPECIFIED.
	LOW VOLTAGE WIRING: DIVIDE, MEDIUM LINE.
	CONDUIT STUB. DIMENSION RECORD DRAWINGS AND MARK.
1	CONDUCTOR & CONDUIT ("CC") SCHEDULE INDICATOR. REFER TO ONE-LINE DIAGRAM.
(J)	JUNCTION BOX.
(J)SC	JUNCTION BOX, SYSTEMS FURNITURE COMMUNICATION CONNECTION.
(J)SP	JUNCTION BOX, SYSTEMS FURNITURE POWER CONNECTION.
PB	PULL BOX.
C C	CABLE TRAY ABOVE ACCESSIBLE CEILING.
W W	WIREWAY.
	EARTH GROUND (ONE-LINE DIAGRAM).
(J) C	JUNCTION BOX, CEILING.
	LADDER RACK.

SYMBOLS LEGEND

SYMBOL	DESCRIPTION
	WIRING DEVICES
	RECEPTACLE, SINGLE: NEMA 5-20R.
	RECEPTACLE, DUPLEX: NEMA 5-20R.
A	RECEPTACLE, DUPLEX, ABOVE COUNTER: NEMA 5-20R.
C	RECEPTACLE, DUPLEX, CEILING: NEMA 5-20R.
D	RECEPTACLE, DUPLEX, DEDICATED CIRCUIT: NEMA 5-20R.
DF	RECEPTACLE, DUPLEX WITH GROUND FAULT CIRCUIT INTERRUPTER, DRINKING FOUNTAIN: CONCEAL WATER COOLER RECEPTACLE BEHIND WATER COOLER. SEE MECHANICAL/PLUMBING SHOP DRAWINGS FOR INSTALLATION REQUIREMENTS.
IG	RECEPTACLE, DUPLEX, ISOLATED GROUND: NEMA 5-20R.
S	RECEPTACLE, DUPLEX, SWITCHED: NEMA 5-20R.
UC	RECEPTACLE, DUPLEX, FLOOR, UNDER CARPET: NEMA 5-20R.
W	RECEPTACLE, DUPLEX WITH GROUND FAULT CIRCUIT INTERRUPTER, WET LABEL, "WEATHERPROOF IN USE": NEMA 5-20R.
WP	RECEPTACLE, DUPLEX, WEATHERPROOF: NEMA 5-20R.
	RECEPTACLE, DUPLEX, HOSPITAL GRADE: NEMA 5-20R.
	RECEPTACLE, DUPLEX ON EMERGENCY POWER: NEMA 5-20R.
	RECEPTACLE, DUPLEX, HOSPITAL GRADE ON EMERGENCY POWER: NEMA 5-20R.
	RECEPTACLE, DUPLEX, CONNECTED TO UPS: NEMA 5-20R.
	RECEPTACLE, DUPLEX WITH GROUND FAULT CIRCUIT INTERRUPTER: NEMA 5-20R.
	RECEPTACLE, DUPLEX WITH GROUND FAULT CIRCUIT INTERRUPTER, HOSPITAL GRADE: NEMA 5-20R.
	RECEPTACLE, DUPLEX WITH GROUND FAULT CIRCUIT INTERRUPTER, HOSPITAL GRADE ON EMERGENCY POWER: NEMA 5-20R.
WP	RECEPTACLE, DUPLEX WITH GROUND FAULT CIRCUIT INTERRUPTER, WEATHERPROOF: NEMA 5-20R.
	RECEPTACLE, DUPLEX, RECESSED: NEMA 5-20R.
S	RECEPTACLE, DUPLEX, SWITCHED, RECESSED: NEMA 5-20R.
	RECEPTACLE, QUADRAPLEX: NEMA 5-20R.
	RECEPTACLE, QUADRAPLEX ON EMERGENCY POWER: NEMA 5-20R.
	RECEPTACLE, QUADRAPLEX, HOSPITAL GRADE: NEMA 5-20R.
	RECEPTACLE, QUADRAPLEX, HOSPITAL GRADE ON EMERGENCY POWER: NEMA 5-20R.
	RECEPTACLE, QUADRAPLEX, CONNECTED TO UPS: NEMA 5-20R.
	RECEPTACLE, QUADRAPLEX WITH GROUND FAULT CIRCUIT INTERRUPTER: NEMA 5-20R.
	RECEPTACLE, SPECIAL PURPOSE. PROVIDE RECEPTACLE TO MATCH EQUIPMENT PLUG.
	RECEPTACLE, SPECIAL PURPOSE ON EMERGENCY POWER. PROVIDE RECEPTACLE TO MATCH EQUIPMENT PLUG.
D	RECEPTACLE, DRYER: NEMA 10-30R.
R	RECEPTACLE, RANGE: NEMA 10-50R.
C	RECEPTACLE, CLOCK HANGER: NEMA 5-15R.
(J)	MULTI-OUTLET ASSEMBLY: NEMA 5-20R.
D	DROP CORD. SEE DETAIL.
T	THERMOSTAT.
FB#	FLUSH FLOOR BOX. "#" SHOWN ON DRAWINGS. REFER TO WIRING DEVICE SCHEDULE IN THE ELECTRICAL SPECIFICATIONS FOR CONFIGURATION AND DEVICES.
PP#	POWER POLE. "#" SHOWN ON DRAWINGS. REFER TO WIRING DEVICE SCHEDULE IN THE ELECTRICAL SPECIFICATIONS FOR CONFIGURATION AND DEVICES.
PT#	FLUSH FIRE RATED POKE THRU. "#" SHOWN ON DRAWINGS. REFER TO WIRING DEVICE SCHEDULE IN THE ELECTRICAL SPECIFICATIONS FOR CONFIGURATION AND DEVICES.
D	SWITCH, DIMMER.
$ X	SWITCH, SINGLE POLE ("x" INDICATES FIXTURES CONTROLLED).
$2 X	SWITCH, DOUBLE POLE ("x" INDICATES FIXTURES CONTROLLED).
$3 X	SWITCH, THREE-WAY ("x" INDICATES FIXTURES CONTROLLED).
$4 X	SWITCH, FOUR-WAY ("x" INDICATES FIXTURES CONTROLLED).
$DS	SWITCH, DOOR.
$K	SWITCH, KEY OPERATED.
$LM	SWITCH, LOW VOLTAGE MASTER.
$M	SWITCH, MOMENTARY.
$OS	SWITCH, OCCUPANCY SENSOR.
$P	SWITCH, PILOT LIGHT.
$T	SWITCH, TIMER OPERATED.
$WP	SWITCH, WEATHERPROOF.
T	RECEPTACLE, DUPLEX, TAMPER RESISTANT: NEMA 5-20R.
	RECEPTACLE, QUADRAPLEX WITH GROUND FAULT CIRCUIT INTERRUPTER, HOSPITAL GRADE: NEMA 5-20R.
	RECEPTACLE, QUADRAPLEX WITH GROUND FAULT CIRCUIT INTERRUPTER, HOSPITAL GRADE ON EMERGENCY POWER: NEMA 5-20R.
	RECEPTACLE, DUPLEX WITH GROUND FAULT CIRCUIT INTERRUPTER, CONNECTED TO UPS: NEMA 5-20R.

SYMBOLS LEGEND

SYMBOL	DESCRIPTION
	SITE ELECTRICAL AND COMMUNICATIONS UTILITIES
—3ØUP—	ELECTRIC LINE: THIN LINE. 1□ = SINGLE PHASE, 2□ = 2-PHASE, 3□ = 3-PHASE, O = OVERHEAD, U = UNDERGROUND, P = PRIMARY, S = SECONDARY
	LIGHTNING ARRESTOR.
	UTILITY POLE.
	UTILITY, DISTRIBUTION SWITCH OR SWITCHING STATION.
E	UTILITY, PRIMARY ELECTRICAL HAND HOLE.
M	UTILITY SERVICES, MANHOLE.
C	UTILITY, COMMUNICATIONS MANHOLE.
E	UTILITY, ELECTRICAL MANHOLE.
T	UTILITY, TELEPHONE MANHOLE.
C	PRECAST CONCRETE, COMMUNICATION VAULT.
E	PRECAST CONCRETE, ELECTRICAL VAULT.
T	PRECAST CONCRETE, TELEPHONE VAULT.
TM	PRECAST CONCRETE, MANHOLE, TRANSFORMER VAULT.
TP	PRECAST CONCRETE, TRANSFORMER PAD.
H	HAND HOLE.
S	SUBSTATION.
T	TRANSFORMER.
	LIGHTING (REFER TO FIXTURE SCHEDULE FOR SYMBOLS)
(W-3)	FIXTURE IDENTIFICATION: (W-3) INDICATES FIXTURE TYPE AS SCHEDULED.
(W-3)	FIXTURE IDENTIFICATION, EMERGENCY WITH BATTERY PACK, CONNECTED TO GENERATOR AS INDICATED: (W-3) INDICATES FIXTURE TYPE AS SCHEDULED.
EM	EMERGENCY.
NL	NIGHT LIGHT: DO NOT SWITCH.
↑	EGRESS DIRECTION ARROW.
LV	LOW VOLTAGE LIGHTING TRANSFORMER.
	LIGHTING CONTROL
	OCCUPANCY SENSOR, DUAL TECHNOLOGY, OMNI-DIRECTIONAL, CEILING.
	OCCUPANCY SENSOR, DUAL TECHNOLOGY, WALL.
	OCCUPANCY SENSOR, DUAL TECHNOLOGY, DIRECTIONAL.
U	OCCUPANCY SENSOR, ULTRASONIC, OMNI-DIRECTIONAL, CEILING.
R	OCCUPANCY SENSOR CONTROL RELAY.
P	PHOTOCELL.
	STRUCTURED CABLING
∇X	TELEPHONE, WALL MOUNTED ("X" INDICATES QUANTITY OF CABLES).
∇W	TELEPHONE, WALL MOUNTED: WALL PHONE.
▼X	OUTLET, DATA COMMUNICATION ("X" INDICATES QUANTITY OF CABLES).
	OUTLET, BUILDING STANDARD COMBINATION TELEPHONE/ DATA COMMUNICATION.
	TELEPHONE TERMINAL BOARD, FIRE TREATED PLYWOOD PAINTED.
	LAN RACK, FLOOR STANDING.
—D—	DATA CABLE, CATEGORY 5 (ONE-LINE DIAGRAM).
—V—	VOICE CABLE, CATEGORY 3 (ONE-LINE DIAGRAM).

ABBREVIATIONS

NOTE: ALL ABBREVIATIONS MAY NOT BE USED.

1P	SINGLE POLE	KV	KILOVOLT
1PH	SINGLE-PHASE	KVA	KILOVOLT AMPERE
1WAY	ONE-WAY	kVAR	KILOVOLT AMPERE REACTIVE
2/C	TWO-CONDUCTOR	kW	KILOWATT
2WAY	TWO-WAY	kWh	KILOWATT HOUR
3/C	THREE-CONDUCTOR	LED	LIGHT EMITTING DIODE
3PH	THREE-PHASE	LFMC	LIQUID TIGHT FLEXIBLE METAL CONDUIT
3WAY	THREE-WAY	LFNC	LIQUID TIGHT FLEXIBLE NONMETALLIC CONDUIT
4OUT	QUADRUPLE RECEPTACLE OUTLET	LPS	LOW PRESSURE SODIUM
4PDT	FOUR-POLE DOUBLE THROW	LRA	LOCKED ROTOR AMPS
4PST	FOUR-POLE SINGLE THROW	LTG	LIGHTING
4W	FOUR-WIRE	LV	LOW VOLTAGE
4WAY	FOUR-WAY	MATV	MASTER ANTENNA TELEVISION SYSTEM
A	ABOVE COUNTER	MAX	MAXIMUM
AC	ARMORED CABLE	MC	METAL CLAD
ADA	AMERICANS WITH DISABILITIES ACT	MCA	MINIMUM CIRCUIT AMPS
ADJ	ADJACENT	MCB	MAIN CIRCUIT BREAKER
AFF	ABOVE FINISHED FLOOR	MCC	MOTOR CONTROL CENTER
AFG	ABOVE FINISHED GRADE	MCP	MOTOR CIRCUIT PROTECTION
AIC	AMPERE INTERRUPTING CAPACITY	MDP	MAIN DISTRIBUTION PANEL
ALUM	ALUMINUM	MG	MOTOR GENERATOR
AMP	AMPERE	MH	MANHOLE
ANN	ANNUNCIATOR	MIN	MINIMUM
AP	ACCESS POINT (WIRELESS DATA)	MLO	MAIN LUGS ONLY
AR	AS REQUIRED	MOCP	MAXIMUM OVERCURRENT PROTECTION
ASC	AMPS SHORT CIRCUIT	NA	NOT APPLICABLE
ATS	AUTOMATIC TRANSFER SWITCH	NC	NORMALLY CLOSED
AV	AUDIO VISUAL	NEC	NATIONAL ELECTRICAL CODE
AWG	AMERICAN WIRE GAGE	NEMA	NATIONAL ELECTRICAL MANUFACTURERS ASSOCIATION
BB XFMR	BUCK-BOOST TRANSFORMER	NFC	NATIONAL FIRE CODE
C	CEILING MOUNTED	NFPA	NATIONAL FIRE PROTECTION ASSOCIATION
CATV	COMMUNITY ANTENNA TELEVISION	NIC	NOT IN CONTRACT
CB	CIRCUIT BREAKER	NL	NIGHT LIGHT
CCBA	CUSTOM COLOR AS SELECTED BY ARCHITECT	NO	NORMALLY OPEN
CCTV	CLOSED CIRCUIT TELEVISION	NTS	NOT TO SCALE
CFBA	CUSTOM FINISH AS SELECTED BY ARCHITECT	OC	ON CENTER
CF/CI	CONTRACTOR FURNISHED/ CONTRACTOR INSTALLED	OCP	OVER CURRENT PROTECTION
CF/OI	CONTRACTOR FURNISHED/ OWNER INSTALLED	OF/CI	OWNER FURNISHED/ CONTRACTOR INSTALLED
CKT	CIRCUIT	OF/OI	OWNER FURNISHED/ OWNER INSTALLED
CM	CONSTRUCTION MANAGER	OFP	OBTAIN FROM PLANS
CND	CONDUIT	OH DR	OVERHEAD (COILING) DOOR
CO	CONVENIENCE OUTLET	OL	OVERLOAD
COR	CONTRACTING OFFICER'S REPRESENTATIVE	PB	PUSHBUTTON
CP	CONTROL PANEL	PF	POWER FACTOR
CT	CURRENT TRANSFORMER	PH	PHASE
CTV	CABLE TELEVISION	PNL	PANEL
CU	COPPER	PT	POTENTIAL TRANSFORMER
dBA	UNIT OF SOUND LEVEL	PTZ	PAN/TILT/ZOOM
DPDT	DOUBLE POLE DOUBLE THROW	QTY	QUANTITY
DS	DISCONNECT SWITCH	R	REMOVE
EA	EACH	RCP	REFLECTED CEILING PLAN
EM	EMERGENCY	RMC	RIGID METAL CONDUIT
EMT	ELECTRICAL METALLIC TUBING	RNC	RIGID NONMETALLIC CONDUIT
ENT	ELECTRICAL NONMETALLIC TUBING	RPM	REVOLUTIONS PER MINUTE
EPO	EMERGENCY POWER OFF	RR	REMOVE AND RELOCATE
EQUIP	EQUIPMENT	SCA	SHORT CIRCUIT AMPS
EX	EXISTING	SCBA	STANDARD COLOR AS SELECTED BY ARCHITECT
F	FURNITURE MOUNTED	SF	SQUARE FOOT (FEET)
FA	FIRE ALARM	SFBA	STANDARD FINISH AS SELECTED BY ARCHITECT
FCP	FIRE ALARM CONTROL PANEL	SPDT	SINGLE POLE, DOUBLE THROW
FLA	FULL LOAD AMPS	SPEC	SPECIFICATION
FMC	FLEXIBLE METALCONDUIT	SPST	SINGLE POLE, SINGLE THROW
FOB	FREIGHT ON BOARD	S/S	START/STOP
FVNR	FULL VOLTAGE NON-REVERSING	ST	SINGLE THROW
FVR	FULL VOLTAGE REVERSING	SWBD	SWITCHBOARD
G	GROUND	SWGR	SWITCHGEAR
GEN	GENERATOR	TL	TWIST LOCK
GFCI	GROUND FAULT CIRCUIT INTERRUPTER	TP	TELEPHONE POLE
GFP	GROUND FAULT PROTECTION	TP	TWISTED PAIR
HD	HEAVY DUTY	TTB	TELEPHONE TERMINAL BOARD
HID	HIGH INTENSITY DISCHARGE	TV	TELEVISION
HOA	HAND-OFF-AUTOMATIC	TVSS	TRANSIENT VOLTAGE SURGE SUPPRESSER
HP	HORSE POWER	TYP	TYPICAL
HPF	HIGH POWER FACTOR	UF	UNDERFLOOR
HPS	HIGH PRESSURE SODIUM	UGND	UNDERGROUND
HV	HIGH VOLTAGE	UPS	UNINTERRUPTIBLE POWER SUPPLY
HZ	HERTZ	V	VOLTS
IG	ISOLATED GROUND	VA	VOLT AMPERE
IMC	INTERMEDIATE METAL CONDUIT	VFC/VFD	VARIABLE FREQUENCY MOTOR CONTROLLER
IN/IS	INSULATED/ISOLATED	W/	WITH
I/O	INPUT/OUTPUT	W/O	WITHOUT
IR	INFRARED	WP	WEATHERPROOF
J-BOX	JUNCTION BOX	XFMR	TRANSFORMER

DEFINITIONS

NOTE: ALL DEFINITIONS MAY NOT BE USED.

INDICATED: THE TERM "INDICATED" REFERS TO GRAPHIC REPRESENTATIONS, NOTES, OR SCHEDULES ON THE DRAWINGS, OTHER PARAGRAPHS OR SCHEDULES IN THE SPECIFICATIONS, AND SIMILAR REQUIREMENTS IN THE CONTRACT DOCUMENTS. WHERE TERMS SUCH AS "SHOWN", "NOTED", "SCHEDULED", AND "SPECIFIED" ARE USED, IT IS TO HELP THE READER LOCATE THE REFERENCE, NO LIMITATION ON LOCATION IS INTENDED.

DIRECTED: TERMS SUCH AS "DIRECTED", "REQUESTED", AUTHORIZED", "SELECTED", "APPROVED", "REQUIRED", AND "PERMITTED" MEAN "DIRECTED BY THE ENGINEER", "REQUESTED BY THE ENGINEER", AND SIMILAR PHRASES.

APPROVED: THE TERM "APPROVED", WHERE USED IN CONJUNCTION WITH THE ENGINEER'S ACTION ON THE CONTRACTOR'S SUBMITTALS, APPLICATIONS, AND REQUESTS, IS LIMITED TO THE ENGINEER'S DUTIES AND RESPONSIBILITIES AS STATED IN GENERAL AND SUPPLEMENTARY CONDITIONS.

FURNISH: THE TERM "FURNISH" IS USED TO MEAN "SUPPLY AND DELIVER TO THE PROJECT SITE, READY FOR UNLOADING, UNPACKING, ASSEMBLY, INSTALLATION, AND SIMILAR OPERATIONS."

INSTALL: THE TERM "INSTALL" IS USED TO DESCRIBE OPERATIONS AT PROJECT SITE INCLUDING THE ACTUAL "UNLOADING, UNPACKING, ASSEMBLY, ERECTION, PLACING, ANCHORING, APPLYING, WORKING TO DIMENSION, FINISHING, CURING, PROTECTING, CLEANING, AND SIMILAR OPERATIONS."

PROVIDE: THE TERM "PROVIDE" MEANS "TO FURNISH AND INSTALL, COMPLETE AND READY FOR THE INTENDED USE."

INSTALLER: AN "INSTALLER" IS THE CONTRACTOR OR AN ENTITY ENGAGED BY THE CONTRACTOR, EITHER AS AN EMPLOYEE, SUBCONTRACTOR, OR SUB-SUBCONTRACTOR, FOR PERFORMANCE OF A PARTICULAR CONSTRUCTION ACTIVITY, INCLUDING INSTALLATION, ERECTION, APPLICATION, AND SIMILAR OPERATIONS. INSTALLERS ARE REQUIRED TO BE EXPERIENCED IN THE OPERATIONS THEY ARE ENGAGED TO PERFORM.

TECHNOLOGY SYSTEMS: THE TERM "TECHNOLOGY SYSTEMS" IS USED TO DESCRIBE ALL LOW VOLTAGE SYSTEMS GENERALLY REFERRED TO AS "SPECIAL SYSTEMS". THESE SYSTEMS INCLUDE BUT ARE NOT NECESSARILY LIMITED TO ALL SYSTEMS WHICH UTILIZE VOLTAGES OF LESS THAN 71 VOLTS SUCH AS SOUND SYSTEMS, VIDEO SYSTEMS, TV SYSTEMS, SECURITY SYSTEMS, VOICE AND DATA CABLING SYSTEMS, ETC...

SITE COORDINATION

THE LOCATION, CAPACITY, AND VOLTAGE OF THE LINES ARE ALL IN ACCORDANCE WITH DATA GIVEN THIS OFFICE BY THE UTILITY COMPANY. COORDINATE WITH THE LOCAL UTILITY COMPANY FOR THE INSTALLATION OF THE ELECTRICAL SERVICE. COMPLY WITH UTILITY REGULATIONS. REPORT DISCREPANCIES TO THE ENGINEER.

ELECTRIC UTILITY

ROCKY MOUNTAIN POWER	PERSON CONTACTED:
STREET NUMBER OR PO BOX?	DATE:
CITY, STATE, ZIP CODE?	PHONE NUMBER:

TELEPHONE UTILITY

QWEST COMMUNICATIONS	PERSON CONTACTED:
STREET NUMBER OR PO BOX?	DATE:
CITY, STATE, ZIP CODE?	PHONE NUMBER:

CABLE UTILITY

AT&T BROAD BAND SERVICES	PERSON CONTACTED:
STREET NUMBER OR PO BOX?	DATE:
CITY, STATE, ZIP CODE?	PHONE NUMBER:

TYPE OF SERVICE?

SERVICE NAME?	PERSON CONTACTED:
STREET NUMBER OR PO BOX?	DATE:
CITY, STATE, ZIP CODE?	PHONE NUMBER:

ELECTRICAL SHEET INDEX

EE001	Sheet Index, Abbreviations & Notes
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EP112	Level 1 Power Plan - Area '2'
EP113	Level 1 Power Plan - Area '3'
EP121	Level 2 Power Plan - Area '1'
EP122	Level 2 Power Plan - Area '2'
EP123	Level 2 Power Plan - Area '3'
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EP401	Enlarged bistro power plan
EP402	Enlarged lab power plan
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EP605	Equipment Schedule
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EL122	Level 2 Lighting Plan - Area '2'
EL123	Level 2 Lighting Plan - Area '3'
EL601	Fixture Schedule
ET111	Level 1 Telecom Plan - Area '1'
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ET113	Level 1 Telecom Plan - Area '3'
ET121	Level 2 Telecom Plan - Area '1'
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ET123	Level 2 Telecom Plan - Area '3'
ET301	Telecom Rough-In Sections
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EY112	Level 1 Auxiliary Plan - Area '2'
EY113	Level 1 Auxiliary Plan - Area '3'
EY121	Level 2 Auxiliary Plan - Area '1'
EY122	Level 2 Auxiliary Plan - Area '2'
EY123	Level 2 Auxiliary Plan - Area '3'
EJ111	Level 1 Audio-Video Plan - Area '1'
EJ112	Level 1 Audio-Video Plan - Area '2'
EJ113	Level 1 Audio-Video Plan - Area '3'
EJ121	Level 2 Audio-Video Plan - Area '1'
EJ122	Level 2 Audio-Video Plan - Area '2'
EJ123	Level 2 Audio-Video Plan - Area '3'
EJ601	Audio-Video Rough-In Details
FA111	Level 1 Fire Alarm Plan - Area '1'
FA112	Level 1 Fire Alarm Plan - Area '2'
FA113	Level 1 Fire Alarm Plan - Area '3'
FA121	Level 2 Fire Alarm Plan - Area '1'
FA122	Level 2 Fire Alarm Plan - Area '2'
FA123	Level 2 Fire Alarm Plan - Area '3'
FA601	Fire Alarm Riser
TA001	Audio-Video Equipment List and Notes
TA002	Audio-Video Schedules
TA501	Audio-Video Details
TA601	Audio-Video Diagrams
TT001	Telecom Schedules and Notes
TT501	Telecom Details
TT601	Telecom Diagrams

GENERAL ELECTRICAL NOTES

1. CLARIFICATION METHODS: AT THE TIME OF BIDDING, BIDDERS SHALL FAMILIARIZE THEMSELVES WITH THE DRAWINGS AND SPECIFICATIONS. ANY QUESTIONS, MISUNDERSTANDINGS, CONFLICTS, DELETIONS, DISCONTINUED PRODUCTS, CATALOG NUMBER DISCREPANCIES, DISCREPANCIES BETWEEN THE EQUIPMENT SUPPLIED AND THE INTENT OR FUNCTION OF THE EQUIPMENT, ETC, SHALL BE SUBMITTED TO THE ARCHITECT/ENGINEER IN WRITING FOR CLARIFICATION PRIOR TO ISSUANCE OF THE FINAL ADDENDUM AND BIDDING OF THE PROJECT. WHERE DISCREPANCIES OR MULTIPLE INTERPRETATIONS OCCUR, THE MOST STRINGENT (WHICH IS GENERALLY RECOGNIZED AS THE MOST COSTLY) THAT MEETS THE INTENT OF THE DOCUMENTS SHALL BE ENFORCED.

2. OWNER FURNISHED ITEMS: THE OWNER WILL FURNISH MATERIAL AND EQUIPMENT AS INDICATED IN THE CONTRACT DOCUMENTS TO BE INCORPORATED INTO THE WORK. THESE ITEMS ARE ASSIGNED TO THE INSTALLER AND COSTS FOR RECEIVING, HANDLING, STORAGE, IF REQUIRED, AND INSTALLATION ARE INCLUDED IN THE CONTRACT SUM.

   A. THE INSTALLER'S RESPONSIBILITIES ARE THE SAME AS IF THE INSTALLER FURNISHED THE MATERIALS OR EQUIPMENT.

   B. THE OWNER WILL ARRANGE AND PAY FOR DELIVERY OF OWNER FURNISHED ITEMS FREIGHT ON BOARD JOB SITE AND THE INSTALLER WILL INSPECT DELIVERIES FOR DAMAGE. IF OWNER FURNISHED ITEMS ARE DAMAGED, DEFECTIVE OR MISSING, DOCUMENT DAMAGED ITEMS WITH THE TRANSPORT COMPANY AND THE OWNER WILL ARRANGE FOR REPLACEMENT. THE OWNER WILL ALSO ARRANGE FOR MANUFACTURER'S FIELD SERVICES, AND THE DELIVERY OF MANUFACTURER'S WARRANTIES AND BONDS TO THE INSTALLER.

   C. THE INSTALLER IS RESPONSIBLE FOR DESIGNATING THE DELIVERY DATES OF OWNER FURNISHED ITEMS AND FOR RECEIVING, UNLOADING AND HANDLING OWNER FURNISHED ITEMS AT THE SITE.THE INSTALLER IS RESPONSIBLE FOR PROTECTING OWNER FURNISHED ITEMS FROM DAMAGE, INCLUDING DAMAGE FROM EXPOSURE TO THE ELEMENTS, AND TO REPAIR OR REPLACE ITEMS DAMAGED AS A RESULT OF HIS OPERATIONS.

3. EXPOSED STRUCTURE AREAS (EXCLUDING MECHANICAL, ELECTRICAL, AND COMMUNICATION SPACES): INSTALL RACEWAYS BETWEEN DECK AND STRUCTURE WHEREVER POSSIBLE IN EXPOSED STRUCTURE CEILING AREAS. ROUTE RACEWAYS IN CONCEALED AREAS WHEREVER POSSIBLE. REFER ALL CONDITIONS WHERE RACEWAYS MUST BE INSTALLED WHICH CANNOT COMPLY WITH THESE REQUIREMENTS TO THE ARCHITECT.

4. SUBMITTALS: PROVIDE SUBMITTALS IN THREE RING BINDERS WITH JOB NAME, SUBCONTRACTOR, AND VOLUME ON THE BINDING. PREPARE TABS FOR EACH SPECIFICATION SECTION REQUIRING SUBMITTALS. PREPARE INDEX OF EQUIPMENT SUBMITTED IN EACH TAB.

5. REFLECTED CEILING PLANS: COORDINATE THE LOCATION OF LIGHT FIXTURES WITH THE ARCHITECTURAL REFLECTED CEILING PLANS. REFER ALL DISCREPANCIES TO THE ARCHITECT AND ENGINEER.

LICENSED PROFESSIONAL ENGINEER No. 179621 RALPH B. HOBER STATE OF UTAH

01/18/2012

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project:
TOOELE APPLIED TECHNOLOGY COLLEGE - NEW BUILDING

88 South Tooele Blvd
Tooele, UT 84074

project#: 11.0420
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Sheet Index, Abbreviations & Notes

sheet:

EE001

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SYMBOLS LEGEND

SYMBOL	DESCRIPTION
ELECTRICAL POWER AND DISTRIBUTION	
	FUSE WITH RATING (ONE-LINE DIAGRAM).
	DISCONNECT, FUSED (ONE-LINE DIAGRAM).
	DISCONNECT, NONFUSED (ONE-LINE DIAGRAM).
	DISCONNECT WITH FUSE AND MOTOR STARTER COMBINATION (ONE-LINE DIAGRAM).
	OVERLOAD RELAY (ONE-LINE DIAGRAM).
	STARTER (ONE-LINE DIAGRAM).
	CIRCUIT BREAKER, MOLDED CASE (ONE-LINE DIAGRAM).
	CIRCUIT BREAKER, MOLDED CASE WITH SHUNT TRIP (ONE-LINE DIAGRAM).
MCP	CIRCUIT BREAKER, MOTOR CIRCUIT PROTECTION (ONE-LINE DIAGRAM).
	CIRCUIT BREAKER, SOLID STATE (ONE-LINE DIAGRAM).
GFP	CIRCUIT BREAKER, SOLID STATE WITH GROUND FAULT PROTECTION (ONE-LINE DIAGRAM).
	MOTOR.
L	COMBINATION RESIDENTIAL EXHAUST FAN/LIGHT.
F	EXHAUST FAN OUTLET.
	HEATER, ELECTRIC RESISTANCE.
	TRANSFORMER (ONE-LINE DIAGRAM).
	TRANSFORMER, CURRENT (ONE-LINE DIAGRAM).
	BATTERY (ONE-LINE DIAGRAM).
	CAPACITOR (ONE-LINE DIAGRAM).
	DELTA CONNECTION (ONE-LINE DIAGRAM).
	WYE CONNECTION (ONE-LINE DIAGRAM).
"1H"	PANELBOARD (ONE-LINE DIAGRAM).
225/3 "1H"	PANELBOARD WITH MAIN LUGS ONLY. BUS SIZE AND PHASE AS SHOWN (ONE-LINE DIAGRAM).
225/3 "1H"	PANELBOARD WITH MAIN CIRCUIT BREAKER. SIZE AND PHASE AS SHOWN (ONE-LINE DIAGRAM).
225/3 "1H" 60/3	PANELBOARD WITH MAIN AND SUB FEED CIRCUIT BREAKER (ONE-LINE DIAGRAM).
225/3 "1H" 25/3	PANELBOARD WITH MAIN LUGS ONLY AND SURGE PROTECTION WITH CIRCUIT BREAKER (ONE-LINE DIAGRAM).
225/3 "1H" 225/3 "1H"	PANELBOARD WITH SUB FEED LUGS (ONE-LINE DIAGRAM).
225/3 "1H" "1H"	PANELBOARD WITH CIRCUIT BREAKER AND SUB FEED LUGS (ONE-LINE DIAGRAM).
	TRANSITION CABINET (ONE-LINE DIAGRAM).

SYMBOLS LEGEND

SYMBOL	DESCRIPTION
	CT CABINET PER UTILITY'S REQUIREMENTS (ONE-LINE DIAGRAM).
	TRANSFER SWITCH (ONE-LINE DIAGRAM).
DMM	DIGITAL MULTIMETER (ONE-LINE DIAGRAM).
	SERVICE ENTRANCE SURGE PROTECTION (ONE-LINE DIAGRAM).
G	GENERATOR, ANNUNCIATOR (ONE-LINE DIAGRAM).
G	GENERATOR, POWER (ONE-LINE DIAGRAM).
M	METER.
BBF	BROAD BAND FILTER (ONE-LINE DIAGRAM).
VFC VFD	VARIABLE FREQUENCY MOTOR CONTROLLER (ONE-LINE DIAGRAM).
	DISCONNECT SWITCH, FUSED.
	DISCONNECT SWITCH, UNFUSED.
	STARTER, COMBINATION WITH DISCONNECT SWITCH.
	STARTER OR MOTOR CONTROLLER.
	PUSHBUTTON.
	PUSHBUTTONS, MOTOR CONTROL.
	PANELBOARD CABINET, FLUSH MOUNTED.
	PANELBOARD CABINET, SURFACE MOUNTED, 1 SECTION.
	PANELBOARD CABINET, SURFACE MOUNTED, 2 SECTION.
DP#_	DISTRIBUTION PANEL OR SWITCHBOARD.
LP	LIGHTING RELAY, CONTACTOR PANEL, OR DIMMING ENCLOSURE.
	LIGHTING CONTROL STATION.
	DIMMING ENTRY STATION OR CONTROL STATION, FLUSH MOUNTED.
	CENTRAL PROCESSOR UNIT.
$ST	SWITCH, TOGGLE MOTOR STARTER WITH OVERLOAD PROTECTION.
75	TRANSFORMER: NUMBER INDICATES kVA.
B B	BUSWAY.
	SPECIALIZED TRANSFER SWITCH (ONE-LINE DIAGRAM).
HC	ACCESSIBLE DOOR ENTRY PUSH PLATE OPERATOR.
	CIRCUIT BREAKER, DRAW OUT (ONE-LINE DIAGRAM).

SYMBOLS LEGEND

SYMBOL	DESCRIPTION
FIRE ALARM	
FSA	FIRE SYSTEM ANNUNCIATOR.
FCP	FIRE ALARM CONTROL PANEL, SEMI-RECESSED.
FPS	FIRE ALARM NOTIFICATION POWER SUPPLY.
FTR	FIRE ALARM TRANSPONDER OR TRANSMITTER.
HVA	SMOKE CONTROL PANEL.
C	AUTOMATIC DOOR CLOSERS: DOOR CLOSERS SHALL BE FURNISHED WITH DOOR HARDWARE AND CONNECTED TO BY FIRE ALARM INSTALLERS.
CM	CONTROL MODULE.
MM	MONITOR MODULE.
P	FIRE ALARM MANUAL PULL STATION.
R	SHUT DOWN RELAY: INSTALL RELAY IN CONTROL CIRCUIT OF EQUIPMENT TO BE CONTROLLED IN THE EVENT OF A FIRE.
	MAGNETIC DOOR HOLDER.
A	FIRE SERVICE OR EMERGENCY TELEPHONE STATION, ACCESSIBLE.
H	FIRE SERVICE OR EMERGENCY TELEPHONE STATION, HANDSET.
J	FIRE SERVICE OR EMERGENCY TELEPHONE STATION, JACK.
	DETECTOR, SMOKE.
A	DETECTOR, SMOKE WITH AUXILIARY CONTACT.
BR	DETECTOR, SMOKE, BEAM RECEIVER.
BT	DETECTOR, SMOKE, BEAM TRANSMITTER.
E	DETECTOR, SMOKE, ELEVATOR RECALL DESIGNATION.
G	DETECTOR, SMOKE WITH GUARD.
R	DETECTOR, SMOKE, RESIDENTIAL.
	DETECTOR, SMOKE, DUCT WITH HOUSING AND SAMPLING TUBE.
	DETECTOR, HEAT.
	INDICATOR LAMP.
	STROBE.
75	STROBE. SUBSCRIPT INDICATES CANDELA RATING.
WP	ALARM, HORN/SPEAKER, WEATHERPROOF.
	ALARM, HORN/STROBE, ONE ASSEMBLY.
75	ALARM, HORN/STROBE, ONE ASSEMBLY. SUBSCRIPT INDICATES CANDELA RATING.
C	ALARM, CHIME/STROBE, ONE ASSEMBLY.
G	ALARM, HORN/STROBE WITH GUARD, ONE ASSEMBLY.
M	ALARM, MINI HORN/STROBE, ONE ASSEMBLY.
E	SPEAKER, EVACUATION.
E	SPEAKER, EVACUATION, COMBINATION STROBE.
	DETECTOR, FLOW SWITCH: FLOW SWITCHES SHALL BE PROVIDED AND INSTALLED WITH FIRE SPRINKLER SYSTEM AND SHALL BE CONNECTED TO LOCATIONS SHOWN ON THE FIRE SPRINKLER SHOP DRAWINGS.
	DETECTOR, TAMPER SWITCH WITH VALVE: TAMPER SWITCHES SHALL BE PROVIDED AND INSTALLED WITH FIRE SPRINKLER SYSTEM AND SHALL BE CONNECTED TO LOCATIONS SHOWN ON THE FIRE SPRINKLER SHOP DRAWINGS.
SD	SMOKE DAMPER.
FSD	FIRE AND SMOKE DAMPER.
	BELL (GONG).
CO	DETECTOR, CARBON MONOXIDE.
	DETECTOR, SMOKE/STROBE, RESIDENTIAL.
75	ALARM, HORN/STROBE, ONE ASSEMBLY, CEILING MOUNTED. SUBSCRIPT INDICATES CANDELA RATING.
75	ALARM, HORN, CEILING MOUNTED. SUBSCRIPT INDICATES CANDELA RATING.
75	ALARM, STROBE, CEILING MOUNTED. SUBSCRIPT INDICATES CANDELA RATING.

SYMBOLS LEGEND

SYMBOL	DESCRIPTION
TECHNOLOGY SYSTEMS	
X	TECHNOLOGY SYSTEM CABLE. SEE SPECIFIC JOB EQUIPMENT LIST FOR APPLICABLE DESIGNATIONS. EXAMPLES: C = CONTROL CABLE G = GROUND CABLE, 10 AWG, 1 CONDUCTOR, GREEN INSULATED L = LINE LEVEL CABLE M = MICROPHONE CABLE S = SPEAKER CABLE, 70 VOLT SYSTEM Z = SPEAKER CABLE, 8 OHM SYSTEM
S #	SPEAKER, CEILING MOUNTED.
S #	SPEAKER, WALL MOUNTED.
S 4	SPEAKER, 4".
S 6	SPEAKER, 6".
S 8	SPEAKER, 8".
S 12	SPEAKER, 12".
S B	SPEAKER, BLIND MOUNT.
S E	SPEAKER, EXISTING.
S H	HORN.
S HW	HORN, WEATHER RESISTANT.
S M	SPEAKER, MASKING.
S R	SPEAKER, RECESSED.
S S	SPEAKER, SURFACE.
XX	SPEAKER, USER DEFINED.
	SPEAKER, HIGH FREQUENCY.
	SPEAKER, LOW FREQUENCY.
	SPEAKER ENCLOSURE (CLUSTER).
	CALL SWITCH, INTERCOM.
	MICROPHONE, TABLE OR LECTERN MOUNTED.
	EQUIPMENT CABINET.
	MEDIA CONNECTION PLATE.
	AUDIO/VISUAL OUTLET.
	SCREEN, PROJECTION, CEILING MOUNTED.
	PROJECTOR, CEILING MOUNTED.
V	VIDEO CONFERENCING CAMERA.
CP	CONTROL PANEL.
M	MICROPHONE INPUT.
M	MICROPHONE INPUT, FLOOR MOUNTED.
R	REMOTE CONTROL INPUT.
$	POWER SWITCH.
S	SPEAKER SWITCH OR INPUT.
SV	SOURCE SWITCH/VOLUME CONTROL.
T	TAPE RECORD OUTPUT.
V	VOLUME CONTROL.
HC	HUB CABINET.
M	VIDEO MONITOR.
ADA	AUDIO DISTRIBUTION AMPLIFIER.
APP	AUDIO PATCH PANEL.
CP#	CONNECTION PANEL.
DVD	DIGITAL VERSATILE DISC (DVD) PLAYER.
EP	ASSISTED LISTENING EMITTER PANEL.
K	SIGNAL RELAY DPDT WITH SOCKET.
LD	LINE DRIVER (VARIZONE DIGITAL PAGING SYSTEM).
PAM	POWER AMP MODULE (VARIZONE DIGITAL PAGING SYSTEM).
RDA	RGBHV DISTRIBUTION AMPLIFIER.
RM	REMOTE CONTROL PANEL.
RMS	RGBHV MATRIX SWITCHER.
TVSS	TRANSIENT VOLTAGE SURGE SUPPRESSER, AC LINE CONDITIONER.
VCR	VIDEO CASSETTE RECORDER.
VDA	COMPOSITE VIDEO DISTRIBUTION AMPLIFIER.
VMS	COMPOSITE VIDEO MATRIX SWITCHER.
VPP	VIDEO PATCH PANEL.
YMS	S-VIDEO MATRIX SWITCHER.
PA	AMPLIFIER (ONE-LINE DIAGRAM).
PB	POWER BRIDGE (VARIZONE DIGITAL PAGING SYSTEM).
	TERMINATOR (VARIZONE DIGITAL PAGING SYSTEM).
	DIODE (ONE-LINE DIAGRAM).
I/M	TRANSFORMER, ISOLATION/MATCHING (ONE-LINE DIAGRAM).
#W	TRANSFORMER, # WATT (ONE-LINE DIAGRAM).
	MICROPHONE, HANDHELD (ONE-LINE DIAGRAM).
A	AUXILIARY INPUT.
IR	INFRARED SENSOR.

SYMBOLS LEGEND

SYMBOL	DESCRIPTION
CLOCK	
C	CLOCK.
C G	CLOCK, SURFACE WITH WIRE GUARD.
NURSE CALL	
	JUNCTION BOX.
	CORRIDOR LIGHT.
B	BATHROOM PULL CORD STATION.
D	DUTY STATION.
E	EMERGENCY ASSISTANCE CALL STATION.
E CB	EMERGENCY ASSISTANCE CODE BLUE CALL STATION.
P	PATIENT STATION.
S	STAFF STATION.
NCM	TOUCH SCREEN NURSE CALL MASTER STATION.
ZLC	ZONE LIGHT CONTROLLER.
CU	NURSE CALL AREA CONTROL UNIT & POWER SUPPLIES.
CCTV	
P	CCTV CABLE, POWER.
V	CCTV CABLE, VIDEO SIGNAL.
CCTV	CCTV HEADEND EQUIPMENT.
M	CCTV MONITOR.
	CCTV CAMERA/ENCLOSURE WITH LENS, TYPICAL. SEE SCHEDULE.
PTZ	CCTV CAMERA WITH PAN, TILT AND ZOOM.
360°	PANNING CAMERA TRANSVERSE ANGLE.
SECURITY	
X	SECURITY CABLE. SEE EQUIPMENT SCHEDULE FOR CABLE TYPE.
ACC	ACCESS CONTROL HEADEND EQUIPMENT.
CTR	SECURITY CONTROL PANEL.
SEC	INTRUSION DETECTION HEADEND EQUIPMENT.
#1	CARD ACCESS DOOR TYPE #1 OR AS NOTED. SEE SCHEDULE.
CR	CARD READER.
KCR	KEYPAD/CARD READER COMBINATION.
	DOOR SWITCH, BALANCED MAGNETIC CONTROL.
ER	EXIT REQUEST.
RL	REMOTE DOOR RELEASE BUTTON.
	BELL.
	BUZZER.
	BUZZER, COMBINATION BELL.
	SENSOR, BURIED VEHICULAR.
	SENSOR, GLASS BREAK.
	SENSOR, VOLUMETRIC.
CA	CONTROLLED ACCESS POINT.
IC	INTERCOM STATION.
IRU	DUAL TECHNOLOGY PASSIVE INFRARED SENSOR AND ULTRASONIC MOTION DETECTOR.
IR	PASSIVE INFRARED SENSOR.
P	PANIC DURESS SWITCH.
U	ULTRASONIC MOTION DETECTOR.
AP	ANNUNCIATOR PANEL.
MSI	MASTER STATION, INTERCOM.
TV DISTRIBUTION	
T	TV DISTRIBUTION CABLE, INDIVIDUAL DROPS.
TR	TV DISTRIBUTION CABLE, TRUNK.
CMB	COMBINER.
DC	DIRECTIONAL COUPLER.
DA	DISTRIBUTION AMPLIFIER (ONE-LINE DIAGRAM).
SPL	SPLITTER (ONE-LINE DIAGRAM).
	TV OUTLET.
	SATELLITE ANTENNA.
	TV ANTENNA (ONE-LINE DIAGRAM).
	TERMINATOR, 75 OHM (TV DISTRIBUTION).

01/18/2012

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TOOELE APPLIED TECHNOLOGY COLLEGE - NEW BUILDING

88 South Tooele Blvd
Tooele, UT 84074

project #: 11.0420
date: 1/20/11

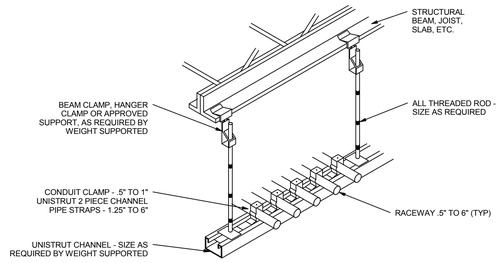
revisions :

Symbol Legend

sheet:

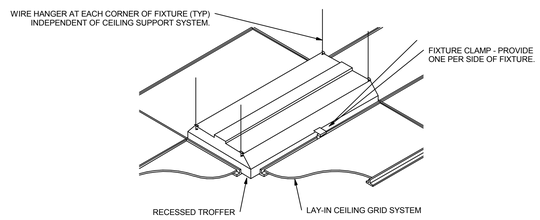
EE002

100% Construction Documents



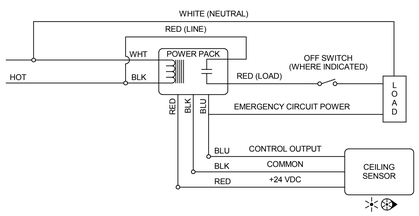
11 TYPICAL CONDUIT RACK DETAIL

SCALE: NTS



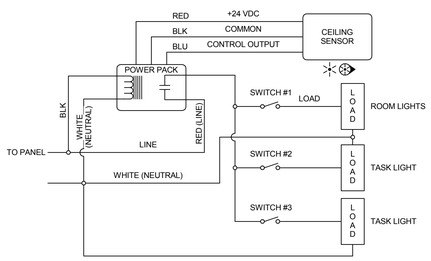
10 RECESSED FIXTURE MOUNTING DETAIL

SCALE: NTS



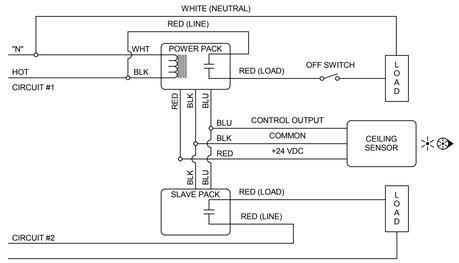
9 TYPICAL ROOM WITH ONE CEILING SENSOR, WITH OR WITHOUT WALL SWITCH

SCALE: NTS



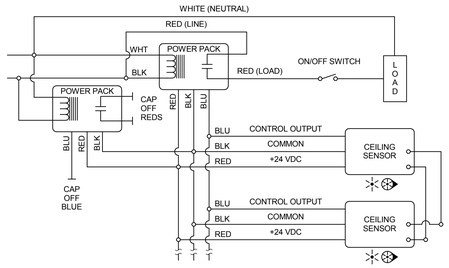
8 TYPICAL ROOM WITH ONE CEILING SENSOR, ONE CIRCUIT AND MULTIPLE SWITCHED LOADS

SCALE: NTS



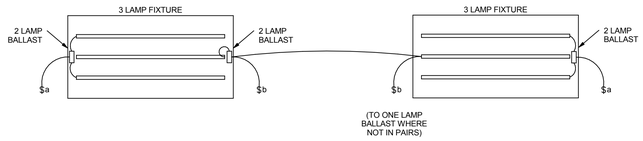
7 TYPICAL ROOM WITH ONE CEILING SENSOR, CONTROLLING TWO CIRCUITS

SCALE: NTS



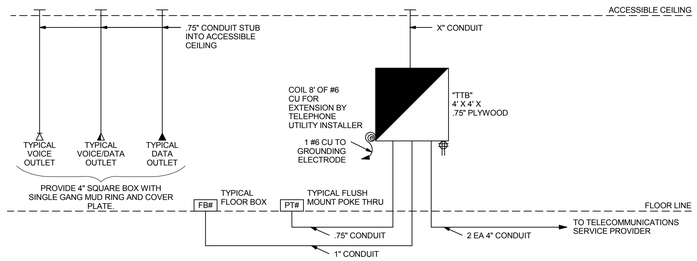
6 TYPICAL ROOM WITH MULTIPLE CEILING SENSORS

SCALE: NTS



5 2 LEVEL SWITCHING DETAIL 3 LAMP

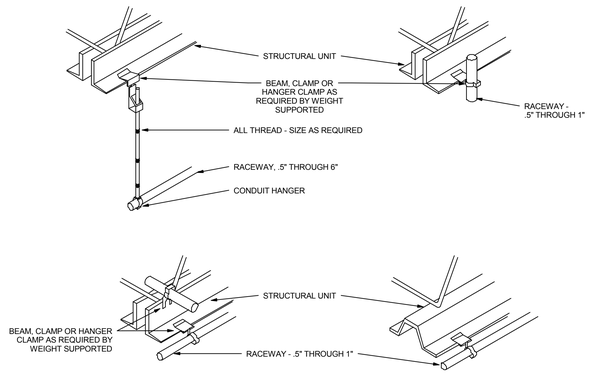
SCALE: NTS



4 VOICE/DATA RISER DIAGRAM

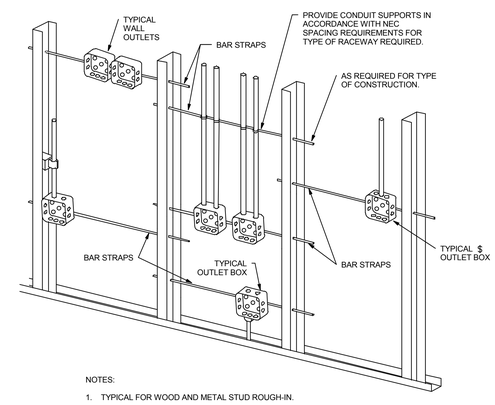
SCALE: NTS

NOTE:
TIE WIRE SHALL NOT BE USED AS A COMPONENT OF ANY RACEWAY HANGER SYSTEM.



3 TYPICAL RACEWAY SUPPORT METHODS DETAIL

SCALE: NTS



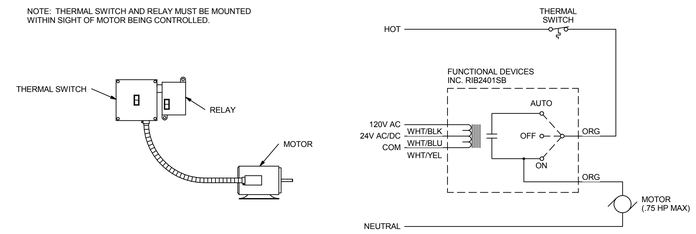
NOTES:

1. TYPICAL FOR WOOD AND METAL STUD ROUGH-IN.
2. PLASTER RINGS NOT SHOWN.
3. LOCATE ALL OUTLET BOXES IN ACCORDANCE WITH ARCHITECTURAL AND MECHANICAL DRAWINGS AND WITH ALL APPLICABLE SHOP DRAWINGS.
4. IN ACCORDANCE WITH IBC 711.3.2 EXCEPTION 1, OUTLETS ON OPPOSITE SIDES OF WALLS OR PARTITIONS IN THE SAME STUD SPACE IN A RATED FIRE SEPARATION WALL MUST BE SEPARATED BY A MINIMUN OF 24" HORIZONTAL DISTANCE.
5. IN NON-RATED WALLS, OUTLETS ON OPPOSITE SIDES OF WALLS OR PARTITIONS MUST BE SEPARATED BY 16" FOR SOUND ATTENUATION.

2 TYPICAL ROUGH-IN REQUIREMENTS DETAIL

SCALE: NTS

NOTE: THERMAL SWITCH AND RELAY MUST BE MOUNTED WITHIN SIGHT OF MOTOR BEING CONTROLLED.



LAYOUT DIAGRAM

SCHEMATIC DIAGRAM

1 120V FRACTIONAL MOTOR CONTROL

SCALE: NTS

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project:

TOOELE APPLIED TECHNOLOGY COLLEGE - NEW BUILDING

88 South Tooele Blvd
Tooele, UT 84074

project#: 11.0420
date: 1/20/11

revisions :

Details

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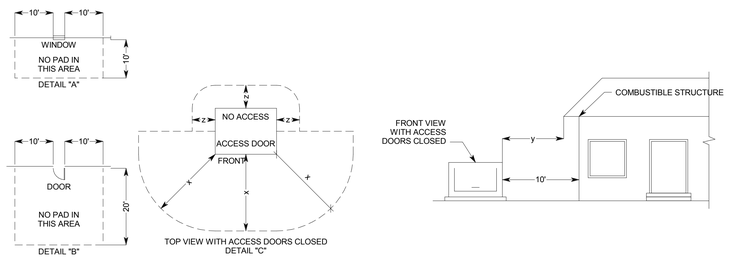


MINIMUM DISTANCE REQUIRED FROM PAD:

x = 10 FT CLEAR AREA IN FRONT OF, ANY EQUIPMENT ACCESS DOOR OR OPENING TO ALLOW THE USE OF HOT STICKS. (SEE DIMENSIONS IN DETAIL "C". LOCATE PADMOUNTED EQUIPMENT WITH ACCESS DOORS AWAY FROM BUILDING WALLS OR OTHER BARRIERS TO ALLOW SAFE WORKING PRACTICES. IF THE EQUIPMENT ACCESS SIDE MUST FACE A WALL, ALLOW 10 FEET FOR WORKING CLEARANCE. NO VEGETATION OR TRIP HAZARDS IN THIS WORK SPACE ARE PERMITTED.)

y = 8 FT FROM ANY STRUCTURE OR ROOF OVERHANG CONSISTING OF COMBUSTIBLE MATERIAL. 3 FT TO NON-COMBUSTIBLE STRUCTURES HAVING NO OPENINGS CLOSER THAN 10 FT.

z = 3 FT CLEAR AREA ON NON-ACCESS SIDES OF THE EQUIPMENT TO ALLOW WORK SPACE. (SEE DIMENSIONS IN DETAILS "C".)

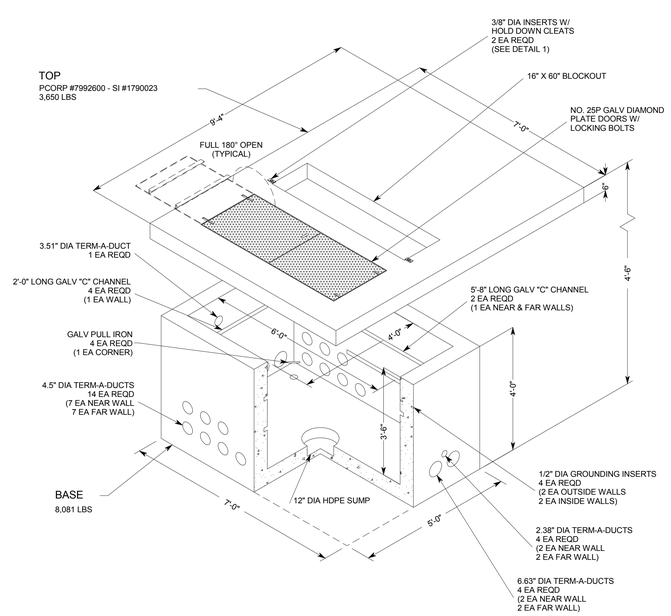
CLEARANCE GENERAL NOTES:

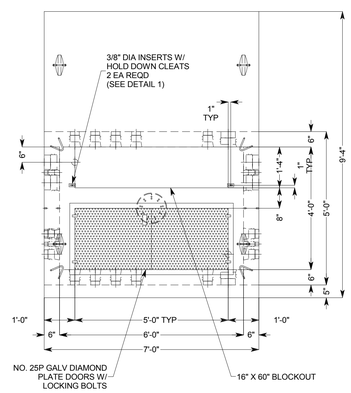
1. CLEARANCES: THE FRONT OF THE PAD SHOULD ALWAYS FACE AWAY FROM ADJACENT STRUCTURES AND BE FREE OF OBSTRUCTIONS. AT LEAST 3 FEET MUST SEPARATE THE EDGES OF THE PAD FROM ANY ADJACENT STRUCTURE. THE EDGES OF THE PAD MUST BE AT LEAST 10 FEET FROM ANY COMBUSTIBLE STRUCTURE. IF AN ADJACENT STRUCTURE HAS ANY OVERHANG OR EAVE WITHIN 27 VERTICAL FEET OF THE TOP OF THE PAD, CLEARANCES MUST BE MEASURED FROM THE OUTSIDE OF THE OVERHANG. THE PAD MUST NOT BE PLACED IN AN AREA 10 FEET IN LINE WITH OR 10 FEET TO EITHER SIDE OF ANY WINDOW IN AN ADJACENT STRUCTURE (SEE DETAIL "A"). CLEARANCE FOR A DOOR MUST BE 20 FEET IN LINE WITH IT AND 10 FEET ON THE SIDES (SEE DETAIL "B"). PADS MUST NOT BE PLACED WITHIN 15 FEET OF ANY VALVE OR WITHIN 25 FEET OF ANY PLUMBING OR STORAGE FACILITY CONTAINING FLAMMABLE MATERIAL. NO WALLS, FENCES, OR ANY OTHER OBSTRUCTIONS WILL BE PLACED WITHIN 3 FEET OF THE SIDES OR BACK OF THE PAD, OR WITHIN 10 FEET OF THE FRONT OF THE PAD (SEE DETAIL "C"). THE AREA IN FRONT OF THE PAD MUST HAVE 10 FEET OF CLEAR, LEVEL WORKING AREA FOR MAINTENANCE OF THE TRANSFORMER. THE PAD MAY NOT BE PLACED IN LINE WITH AN AIR INTAKE WITHIN 32 VERTICAL FEET OF THE SURFACE PAD. ALSO VERTICALLY, IT MUST NOT BE PLACED WITHIN 12 FEET OF A DOOR OR WINDOW. VAULTS SHALL BE LOCATED WITHIN 15 FEET OF A GRAVELED OR PAVED SURFACE SUITABLE FOR INCIDENTAL HEAVY TRUCK ACCESS.
2. BARRIERS: IF THE TRANSFORMER PAD IS TO BE LOCATED IN AREAS SUBJECT TO VEHICULAR TRAFFIC, (PARKING LOTS, DRIVEWAYS, ETC) CONTACT ROCKY MOUNTAIN POWER FOR PROTECTIVE BARRIER REQUIREMENTS.
3. IF THE TRANSFORMER WILL NOT COVER THE CABLE OPENINGS ON THESE STANDARD PADS, SEAL THE SIDES OF THE CABLE OPENING TO FIT THE TRANSFORMER USING SACKRETE OR COMPARABLE.

2 CLEARANCE DETAIL

NTS

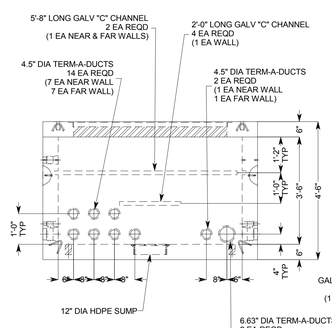
2.4 - 25kV, 3-PHASE TRANSFORMER PADVAULT WITH ACCESS, STOCK ITEM 7992600-STOCK ITEM 1790023
35kV, 3-PHASE TRANSFORMER PADVAULT WITH ACCESS, STOCK ITEM 7992602-STOCK ITEM 1008977



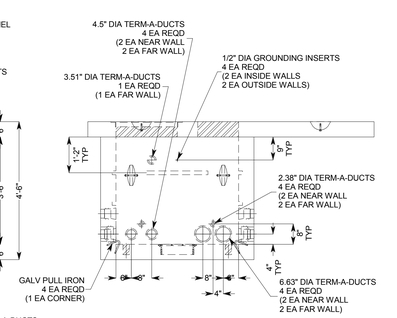


PLAN VIEW

2.4-25 kV, 3-PHASE TRANSFORMER PADVAULT WITH ACCESS
PCORP #7992600 - SI #1790023

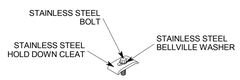


ELEVATION VIEW



END VIEW

*LIFTING DEVICE TYPE & LOCATION MAY CHANGE WITHOUT NOTICE.



HOLD DOWN CLEAT
DETAIL 1

1 1/4" X 2 1/2" STAINLESS STEEL HOLD-DOWN CLEAT - 2 REQD
3/8" X 1 1/4" STAINLESS STEEL BOLT - 2 REQD
3/8" STAINLESS STEEL BELLVILLE WASHER - 2 REQD

NOTE: PRIOR TO ORDERING AND INSTALLING THE PADVAULT, SUBMIT PADVAULT TO ROCKY MOUNTAIN POWER FOR APPROVAL AND VERIFICATION, AND COORDINATE EXACT SIZE AND LOCATION OF DUCT OPENINGS WITH ROCKY MOUNTAIN POWER.

1 THREE-PHASE TRANSFORMER PADVAULT (ROCKY MOUNTAIN POWER STANDARD)

NTS

GENERAL SHEET NOTES

1. SCOPE

THIS MATERIAL SPECIFICATION OUTLINES THE MINIMUM REQUIREMENTS FOR PADVAULTS TO BE USED IN CONJUNCTION WITH PACIFICORP- OWNED THREE-PHASE TRANSFORMERS (SEE FIGURE 1). THE MATERIAL SPECIFICATION APPLIES WHETHER THE PADVAULT IS TO BE INSTALLED BY COMPANY PERSONNEL, CONTRACTOR, CUSTOMER, OR THE SUPPLIER.

2. APPLICABLE DOCUMENTS

THE LATEST REVISIONS OF THE DOCUMENTS, STANDARDS, CODES, AND REQUIREMENTS LISTED IN 2.1, PACIFICORP, AND 2.2, CODES AND STANDARDS, IN EFFECT ON THE DATE OF INVITATION TO BID APPLY TO THE EXTENT SPECIFIED HEREIN.

2.1 PACIFICORP

ZG 301 GENERAL EQUIPMENT BASE AND ENCLOSURE REQUIREMENTS
ZG 311 CONCRETE REQUIREMENTS

2.2 CODES AND STANDARDS

WESTERN UNDERGROUND COMMITTEE GUIDE 2.13, SECURITY FOR PADMOUNTED EQUIPMENT ENCLOSURES

APPLICABLE CODES
ANSI STANDARDS
IEEE STANDARDS
NEMA STANDARDS

3. GENERAL

3.1 APPLICATION INFORMATION

THIS MATERIAL SPECIFICATION STATES MATERIAL AND CONSTRUCTION REQUIREMENTS THAT ARE APPLICABLE TO ALL THREE-PHASE TRANSFORMER PADVAULTS.

3.2 AUTHORIZED MATERIAL SPECIFICATION

THIS MATERIAL SPECIFICATION IS NOT CONSIDERED VALID UNTIL EACH PAGE CONTAINS THE APPROVAL SIGNATURE OR INITIALS OF THE PERSONS NAMED IN THE TITLE BLOCKS.

4. APPLICABLE STOCK ITEM NUMBERS

MATERIALS BEING SUBMITTED FOR THE FOLLOWING PACIFICORP STOCK ITEM NUMBERS ARE SUBJECT TO EVALUATION IN ACCORDANCE WITH REQUIREMENTS IN THIS MATERIAL SPECIFICATION.

1790023, PADVAULT, TRANSFORMER, 3-PHASE, 75-500 KVA
1790024, PADVAULT, TRANSFORMER, 3-PHASE, 500-2500 KVA

5. PRODUCT AND INSTALLATION REQUIREMENTS

THE PURPOSE OF A THREE-PHASE TRANSFORMER PADVAULT IS TO SUPPORT A THREE-PHASE TRANSFORMER.

5.1 PADVAULT LAYOUT

THE THREE-PHASE TRANSFORMER PADVAULT IS COMPOSED OF TWO PIECES; (1) THE PAD, AND (2) THE ENCLOSURE. UNLESS OTHERWISE APPROVED BY PACIFICORP ENGINEERING, ALL DIMENSIONS AND PLACEMENT OF HARDWARE SHALL CONFORM TO THOSE SHOWN ON THIS SHEET. THE ENCLOSURE IS COMMON TO ALL PADVAULTS COVERED BY THIS MATERIAL SPECIFICATION, ZG 531, PADVAULT-THREE-PHASE SECTIONALIZING CABINET, AND ZG 551, PADVAULT-THREE-PHASE FUSING CABINET.

5.2 INSERTS

TWO .375" 16UNC STAINLESS STEEL OR NYLON THREADED INSERTS AND STAINLESS STEEL BOLTS WITH CLEATS FOR MOUNTING THE TRANSFORMER SHALL BE PLACED IN THE PAD AS SHOWN IN FIGURE 2.

5.3 PULLING ATTACHMENTS

CABLE PULLING ATTACHMENTS SHALL BE INSTALLED OPPOSITE OF EACH SET OF CONDUIT BREAKOUTS SUCH THAT BLOCKS MAY BE ATTACHED FOR A STRAIGHT CABLE PULL. PULLING ATTACHMENTS SHALL HAVE A MINIMUM PULLOUT STRENGTH OF 6000 POUNDS. ATTACHMENTS SHALL ALLOW THE ATTACHMENT OF A CLEVIS WITH A ONE-INCH DIAMETER THROUGH BOLT. PULLING ATTACHMENTS MAY BE DESIGNED BY THE MANUFACTURER TO MEET THESE REQUIREMENTS.

5.4 CONDUIT ENTRANCES

BANKS OF NINE (9) SIX-INCH SQUARE BREAKOUTS SHALL BE USED FOR CONDUIT ENTRANCES. TWO BANKS OF KNOCKOUTS SHALL BE PLACED IN EACH SIDE AND IN EACH END OF THE ENCLOSURE.

5.5 LIFTING ATTACHMENTS

ENOUGH LIFTING ATTACHMENTS SHALL BE PROVIDED TO ENSURE SAFE INSTALLATION OF ALL PIECES AT THE SITE.

5.6 INSTALLATION

THIS UNIT SHALL BE INSTALLED AT THE SITE BY THE SUPPLIER OR CONTRACTOR. ALL EARTH UNDER THE PADVAULT SHALL BE COMPACTED AND LEVEL PRIOR TO SETTING THE PADVAULT. PROVIDE 6" OF 3/4-INCH-MINUS GRAVEL BACKFILL BASE. THE JOINT BETWEEN THE PAD AND ENCLOSURE SHALL BE SEALED USING TAR OR MASTIC. THE TOP OF THE PAD SHOULD BE TWO TO FOUR INCHES ABOVE FINAL GRADE, WHEN INSTALLED.

6. TESTING

6.1 TEST COMPLIANCE

PADVAULTS SUBMITTED UNDER THIS MATERIAL SPECIFICATION SHALL MEET ALL TESTS AND REQUIREMENTS CONTAINED IN ZG 301, GENERAL EQUIPMENT BASE AND ENCLOSURE REQUIREMENTS, ZG 311, CONCRETE REQUIREMENTS, AND THIS MATERIAL SPECIFICATION. PADVAULTS WILL ALSO COMPLY WITH REQUIREMENTS IN APPLICABLE NATIONAL STANDARDS.

6.2 SECURITY TEST

TRANSFORMER PADVAULTS MUST BE ABLE TO PASS THE FOLLOWING SECURITY TEST. THE SECURITY TEST IS DESIGNED TO ENSURE THAT PADMOUNT EQUIPMENT, WHICH COMPLIES WITH WESTERN UNDERGROUND COMMITTEE GUIDE 2.13, SECURITY FOR PADMOUNTED EQUIPMENT ENCLOSURES, IS NOT COMPROMISED BY UNEVEN PAD SETTING.

WITH THE APPROPRIATE TRANSFORMER MOUNTED, ATTEMPT TO PASS A #14 AWG SOFT-DRAWN COPPER WIRE THROUGH THE INTERFACE BETWEEN THE CABINET AND PAD. IF THE WIRE CAN BE PASSED THROUGH, THE PADVAULT HAS FAILED THE TEST AND IS NOT ACCEPTABLE.

7. PROVIDE AMCOR TYPE GV151 PADVAULT OR AS APPROVED OR DIRECTED BY ROCKY MOUNTAIN POWER.

8. SUBMIT PADVAULT TO ROCKY MOUNTAIN POWER FOR APPROVAL PRIOR TO THE PURCHASE AND INSTALLATION OF THE PADVAULT.

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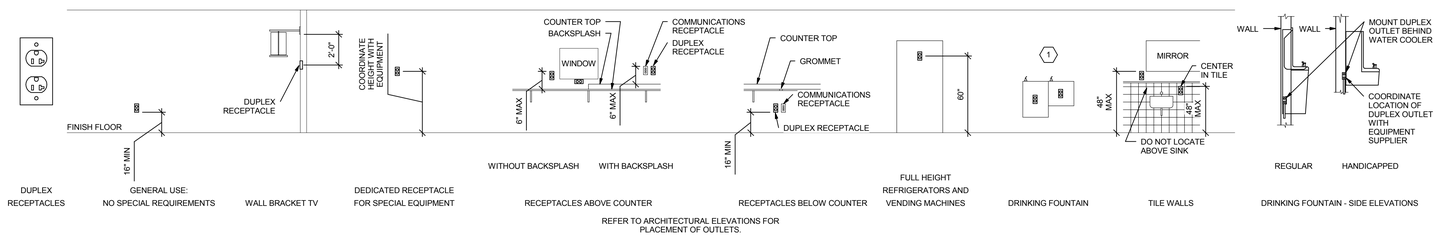
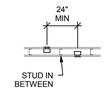


D1 RECEPTACLE MOUNTING DETAILS

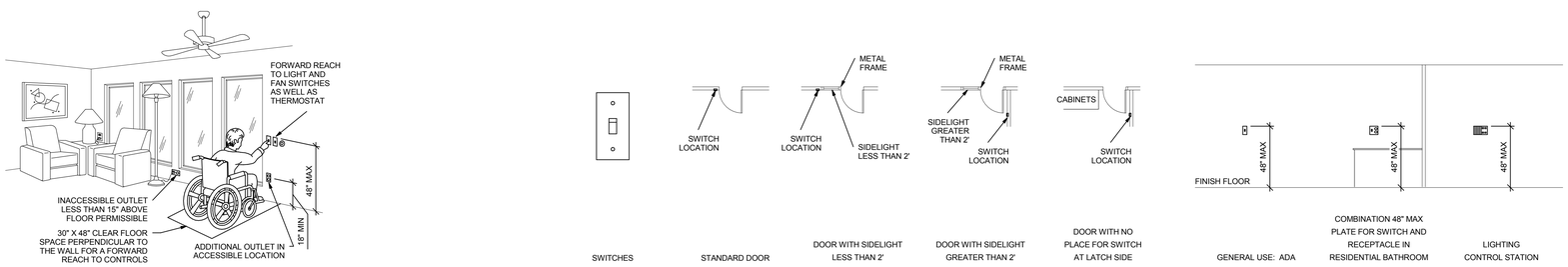
SCALE: NTS



BOXES ON OPPOSITE SIDES OF WALL

E5 BOX MOUNTING DETAILS

SCALE: NTS

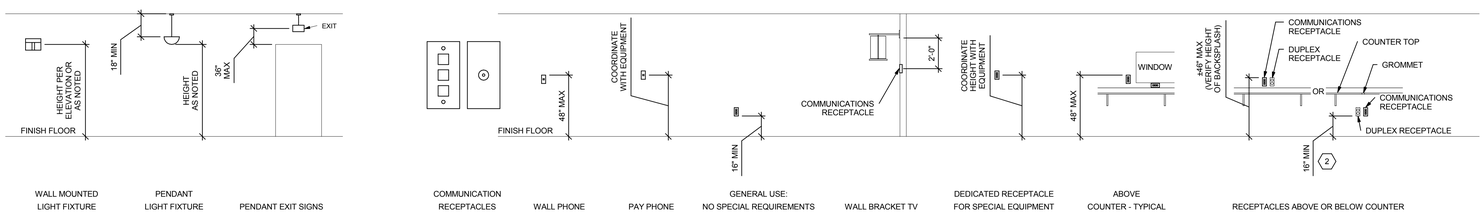


C1 ADA DETAIL

SCALE: NTS

C2 SWITCH MOUNTING DETAILS

SCALE: NTS

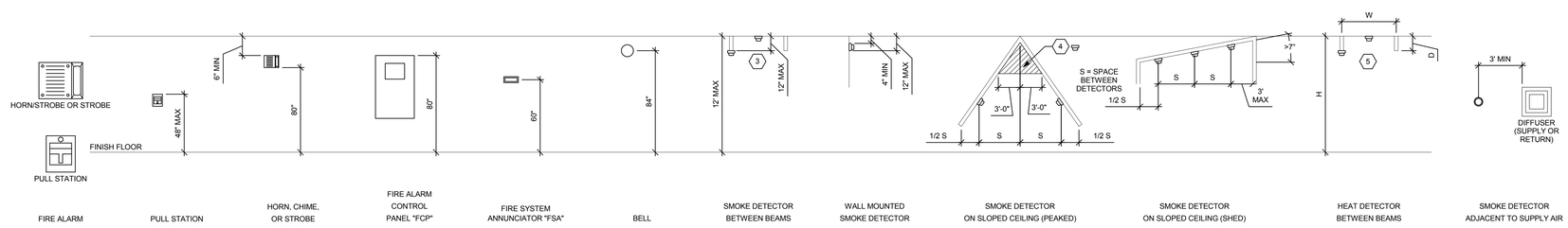


B1 LIGHTING MOUNTING DETAILS

SCALE: NTS

B2 COMMUNICATIONS MOUNTING DETAILS

SCALE: NTS



A1 FIRE ALARM MOUNTING DETAILS

SCALE: NTS

GENERAL SHEET NOTES

1. DETERMINE MOUNTING HEIGHTS OF ELECTRICAL AND ELECTRONIC EQUIPMENT IN THE FOLLOWING ORDER OF PRIORITY:

   1 - ELEVATIONS (ARCHITECTURAL, ELECTRICAL, MECHANICAL, ETC).

   2 - EQUIPMENT SHOP DRAWINGS.

   3 - FIELD INSTRUCTIONS.

2. LOCATE RECEPTACLES SERVING THE SAME TYPE OF USE AT A UNIFORM HEIGHT UNLESS DIRECTED OTHERWISE.
3. MECHANICAL, ELECTRICAL, AND COMMUNICATION ROOMS: COORDINATE LOCATION OF LIGHTING AND POWER RECEPTACLES WITH EQUIPMENT, PIPING, AND DUCTWORK. DO NOT INSTALL RECEPTACLES BEHIND EQUIPMENT OR WHERE OTHERWISE INACCESSIBLE. POSITION LIGHTING REGARDLESS OF WHERE SHOWN ON DRAWING TO PROVIDE PROPER ILLUMINATION.
4. MOUNT RECEPTACLE BOXES FOR SWITCHES AND RECEPTACLES WITH LONG AXIS OF THE DEVICE VERTICAL UNLESS OTHERWISE INDICATED.
5. SET BOXES WITH PLASTER RINGS FLUSH WITH FINISHED SURFACE.
6. LOCATE BOX COVERS OR DEVICE PLATES SO THEY WILL NOT SPAN DIFFERENT TYPES OF BUILDING FINISHES EITHER VERTICALLY OR HORIZONTALLY.
7. VERIFY ALL DOOR CONDITIONS ON ARCHITECTURAL DRAWINGS PRIOR TO INSTALLING SWITCHES.
8. LOCATE WIREING DEVICES WHICH ARE ADJACENT AND ARE COMPATIBLE VOLTAGES IN ONE PLATE.

SHEET KEYNOTES

1. LOCATE RECEPTACLES BEHIND DRINKING FOUNTAINS.
2. REFER TO ARCHITECTURAL ELEVATIONS FOR PLACEMENT OF OUTLETS.
3. LOCATE AT BOTTOM OF BEAMS (OR JOISTS) OR AT CEILING. (REDUCE SPACING BY .5 PERPENDICULAR TO BEAM OR JOIST DIRECTION.) FOR OTHER CONDITIONS, REFER TO NFPA 72.
4. LOCATE DETECTOR ANYWHERE IN SHADED AREA BUT NOT IN TOP 4" OF PEAK.
5. LOCATE AT BOTTOM OF BEAMS IF D/H < .1 OR W/H < .4; OTHERWISE, LOCATE IN BEAM POCKET. FOR D > 4 REDUCE SPACING .33 PERPENDICULAR TO BEAMS.

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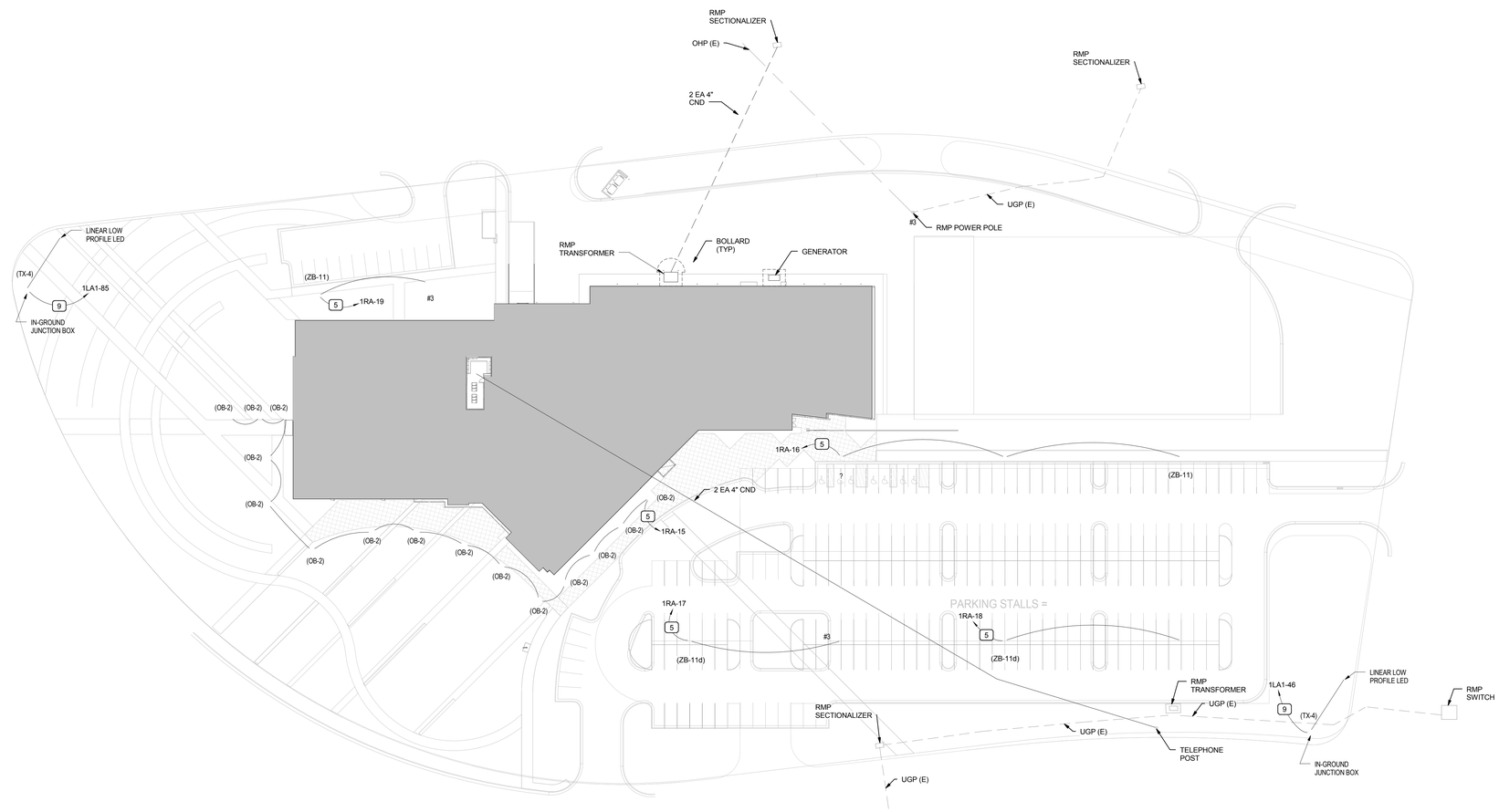

1 SITE ELECTRICAL PLAN

SCALE: 1" = 40'-0"

PROJECT NORTH TRUE NORTH

GENERAL SHEET NOTES

SHEET KEYNOTES

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METHOD STUDIO INC.

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phone:(801) 532-4422

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324 S. State St., Suite 400
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www.spectrum-engineers.com

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project:

TOOELE APPLIED TECHNOLOGY COLLEGE - NEW BUILDING

88 South Tooele Blvd
Tooele, UT 84074

project#: 11.0420
date: 1/20/11

revisions :

Electrical Site Plan

sheet:

ES101

100% Construction Documents

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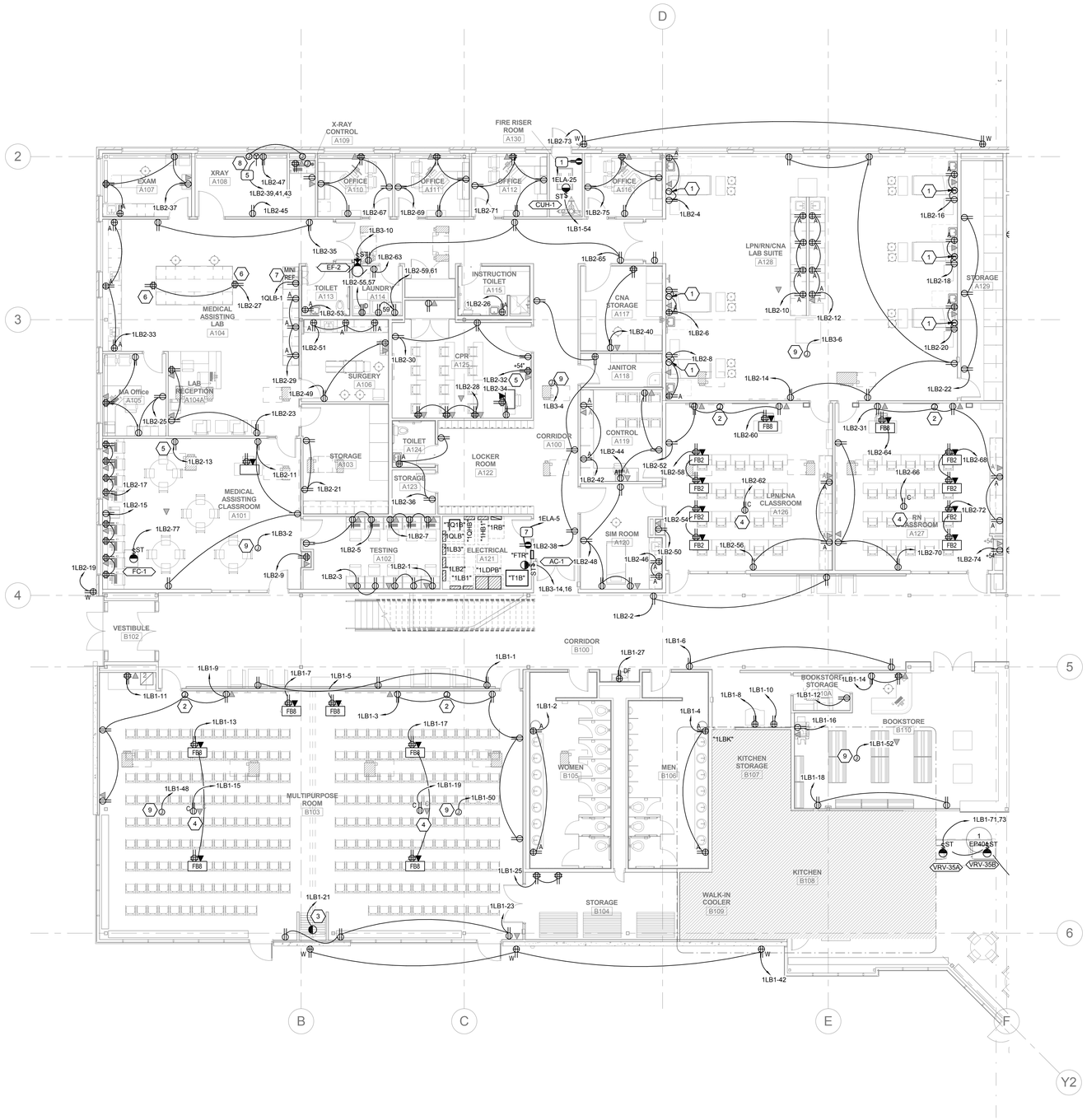
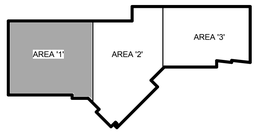


1 LEVEL 1 POWER PLAN - AREA '1'

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

PROJECT NORTH TRUE NORTH



GENERAL SHEET NOTES

1 MOUNT RECEPTACLES IN ALL SHOP AREAS AT +48" A.F.F.

2 CE & R LAB 121 IS CLASSIFIED CLASS 1 DIVISION 2 UP TO 18" ABOVE FINISHED FLOOR. COMPLY WITH THE REQUIREMENTS OF NEC ARTICLES 501 AND 511 FOR ALL ELECTRICAL RACEWAY, WIRING AND EQUIPMENT IN THIS AREA. REFER TO DETAIL XX/EP50X.

3 LOCATIONS OF MECHANICAL EQUIPMENT SHOWN IS APPROXIMATE. COORDINATE EXACT LOCATIONS WITH MECHANICAL INSTALLER PRIOR TO ROUGH-IN.

SHEET KEYNOTES

1 PROVIDE CONNECTION TO HEADWALL UNIT. COORDINATE LOCATION WITH ARCHITECTURAL ELEVATIONS.

2 PROVIDE ELECTRICAL CONNECTIONS TO MOTORIZED SCREEN WITH ALL POWER AND CONTROL WIRING PER MANUFACTURER'S WRITTEN INSTRUCTIONS. MOUNT CONTROL SWITCH IN LOCATION APPROVED BY ARCHITECT. INTERFACE WITH A/V CONTROLS PER A/V DRAWINGS.

3 PROVIDE CONNECTION TO MOTORIZED WALL SYSTEM WITH ALL POWER AND CONTROL WIRING PER MANUFACTURER'S WRITTEN INSTRUCTIONS.

4 CEILING OUTLET FOR PROJECTOR OR MONITOR. MOUNT FLUSH TO CEILING ON 6'-0" WHIP FOR FLEXIBILITY IN FINAL CONNECTION. COORDINATE FINAL LOCATION WITH AV INSTALLER AND MOUNT SECURELY TO STRUCTURE.

5 OUTLET FOR WALL MOUNTED MONITOR. COORDINATE LOCATION WITH AV INSTALLER.

6 OUTLET(S) MOUNTED IN MILLWORK. COORDINATE LOCATION WITH ARCHITECTURAL DETAILS AND MILLWORK INSTALLER.

7 RECEPTACLE FOR UNDER COUNTER REFRIGERATOR. COORDINATE LOCATION WITH ARCHITECTURAL ELEVATIONS.

8 PROVIDE 1" CONDUIT AND JUNCTION BOXES IN XRAY AND CONTROL AREAS FOR XRAY CONTROL WIRING. COORDINATE LOCATION WITH OWNER.

9 CIRCUITS FOR HVAC CONTROLS SYSTEM. COORDINATE LOCATION WITH MECHANICAL CONTROLS INSTALLER.

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project:
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88 South Tooele Blvd
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project#: 11.0420
date: 1/20/11

revisions :

Level 1 Power Plan - Area '1'

sheet:

EP111

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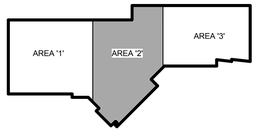
1 LEVEL 1 POWER PLAN - AREA '2'

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

PROJECT NORTH TRUE NORTH



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3 LOCATIONS OF MECHANICAL EQUIPMENT SHOWN IS APPROXIMATE. COORDINATE EXACT LOCATIONS WITH MECHANICAL INSTALLER PRIOR TO ROUGH-IN.

SHEET KEYNOTES

1 OUTLET(S) MOUNTED IN MILLWORK. COORDINATE LOCATION WITH ARCHITECTURAL DETAILS AND MILLWORK INSTALLER.

2 PROVIDE CONNECTION OT OVERHEAD MOTORIZED DOOR WITH ALL POWER AND CONTROL WIRING PER MANUFACTURER'S WRITTEN INSTRUCTIONS.

3 OUTLET FOR WALL MOUNTED MONITOR. COORDINATE LOCATION WITH AV INSTALLER.

4 CIRCUITS FOR HVAC CONTROLS SYSTEM. COORDINATE LOCATION WITH MECHANICAL CONTROLS INSTALLER.

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88 South Tooele Blvd
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Level 1 Power Plan - Area '2'

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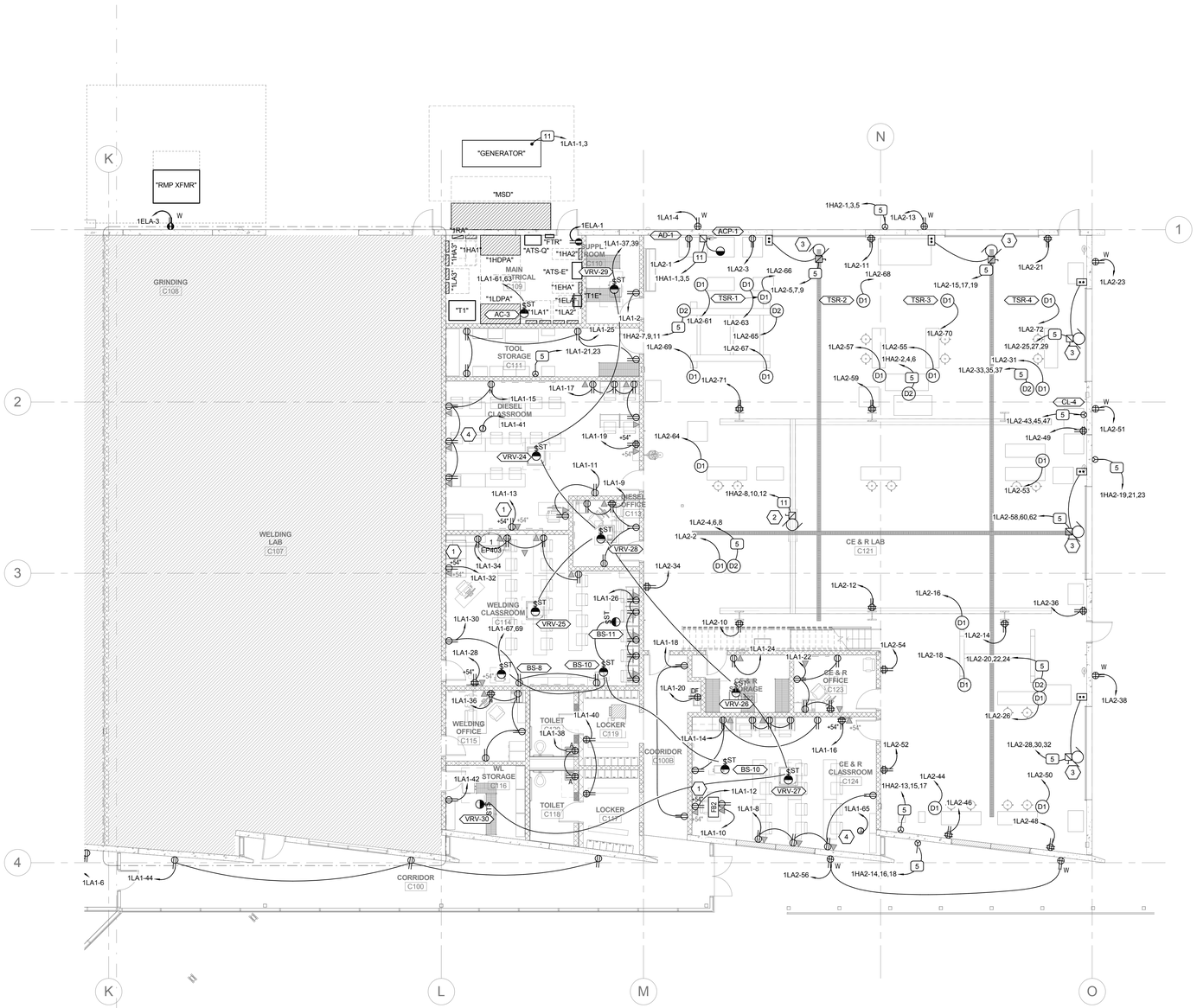
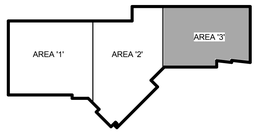


CE & R Lab Equipment Schedule

CL-3	DRILL PRESS
CL-4	GRINDER

1 LEVEL 1 POWER PLAN - AREA '3'
SCALE: 1/8" = 1'-0"

PROJECT NORTH TRUE NORTH



GENERAL SHEET NOTES

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3 LOCATIONS OF MECHANICAL EQUIPMENT SHOWN IS APPROXIMATE. COORDINATE EXACT LOCATIONS WITH MECHANICAL INSTALLER PRIOR TO ROUGH-IN.

SHEET KEYNOTES

1 OUTLET FOR WALL MOUNTED MONITOR. COORDINATE LOCATION WITH AV INSTALLER.

2 PROVIDE CONNECTION TO HIGH BAY CRANE WITH ALL POWER AND CONTROL WIRING PER MANUFACTURER' WRITTEN INSTRUCTIONS. CRANE AND ELECTRICAL CONNECTIONS ARE PART OF BID ALTERNATE #1.

3 PROVIDE CONNECTION OT OVERHEAD MOTORIZED DOOR WITH ALL POWER AND CONTROL WIRING PER MANUFACTURER'S WRITTEN INSTRUCTIONS.

4 CIRCUITS FOR HVAC CONTROLS SYSTEM. COORDINATE LOCATION WITH MECHANICAL CONTROLS INSTALLER.

REGISTERED PROFESSIONAL ENGINEER No. 7862 STATE OF UTAH
01/18/2012

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project:
TOOELE APPLIED TECHNOLOGY COLLEGE - NEW BUILDING

88 South Tooele Blvd
Tooele, UT 84074

project#: 11.0420
date: 1/20/11

revisions :

Level 1 Power Plan - Area '3'

sheet:
EP113

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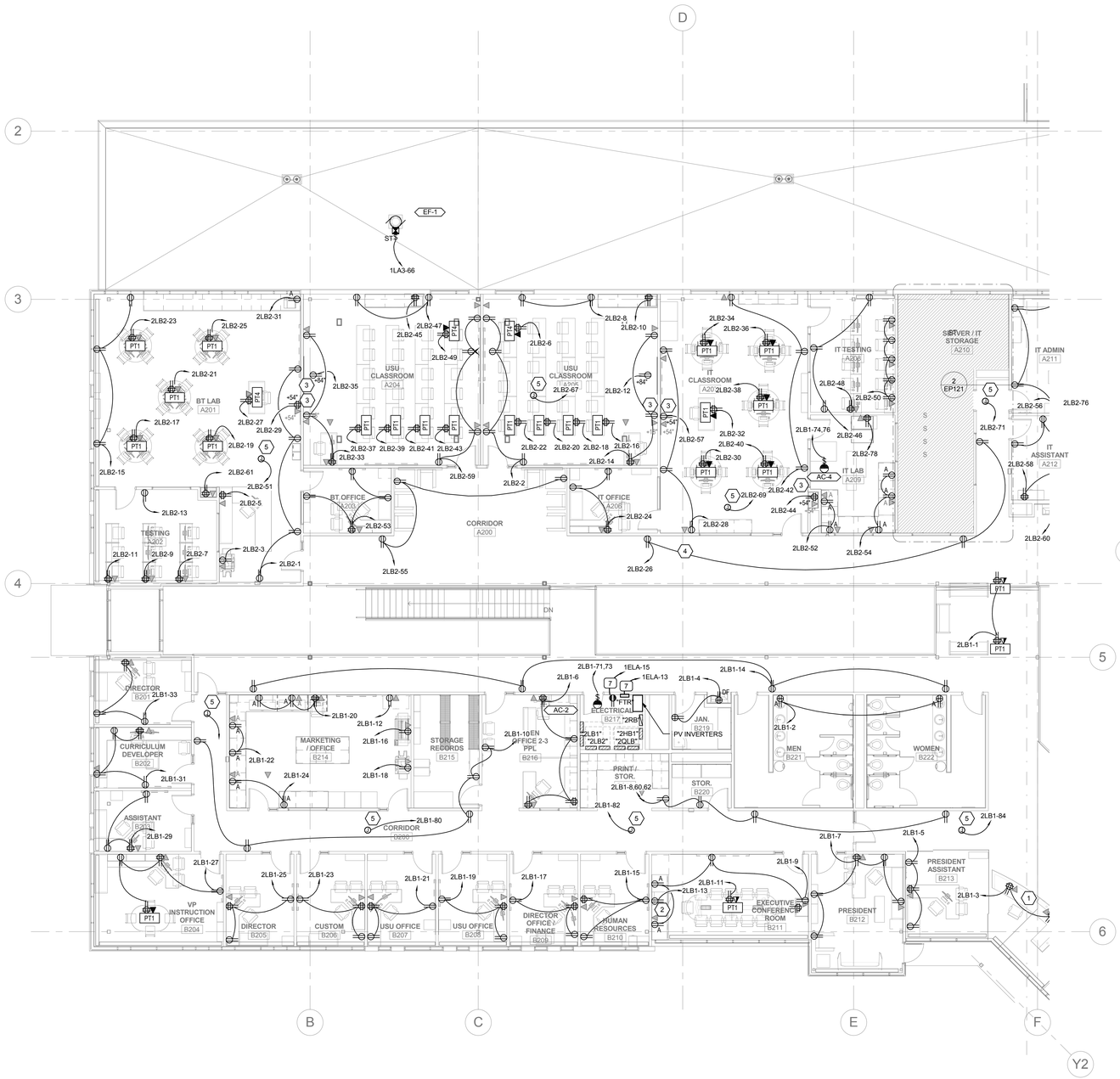
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EF-1
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2LB2-56
2LB2-76
2LB2-58
2LB2-60
BT LAB
A201
TESTING
A202
BT OFFICE
A203
USU CLASSROOM
A204
CORRIDOR
A200
USU CLASSROOM
A206
IT OFFICE
A207
CLASSROOM
A208
IT TESTING
A205
IT LAB
A209
SERVER / IT STORAGE
A210
IT ADMIN
A211
IT ASSISTANT
A212
DN
2LB1-71,73
1ELA-15
1ELA-13
2LB1-14
2LB1-6
2LB1-4
2LB1-1
2LB1-33
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2LB1-12
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2LB1-25
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2LB1-19
2LB1-17
2LB1-15
2LB1-11
2LB1-13
2LB1-9
2LB1-3
DIRECTOR
B201
CURRICULUM DEVELOPER
B202
ASSISTANT
B203
MARKETING / OFFICE
B214
STORAGE RECORDS
B215
EN OFFICE 2-3 PPL
B216
ELECTRICAL
B217
JAN.
B219
PV INVERTERS
PRINT / STOR.
STOR.
B220
MEN
B221
WOMEN
B222
CORRIDOR
B200
VP INSTRUCTION OFFICE
B204
DIRECTOR
B205
CUSTOM
B206
USU OFFICE
B207
USU OFFICE
B208
DIRECTOR OFFICE / FINANCE
B209
HUMAN RESOURCES
B210
EXECUTIVE CONFERENCE ROOM
B211
PRESIDENT
B212
PRESIDENT ASSISTANT
B213
AC-2
AC-4
PT1
PT4
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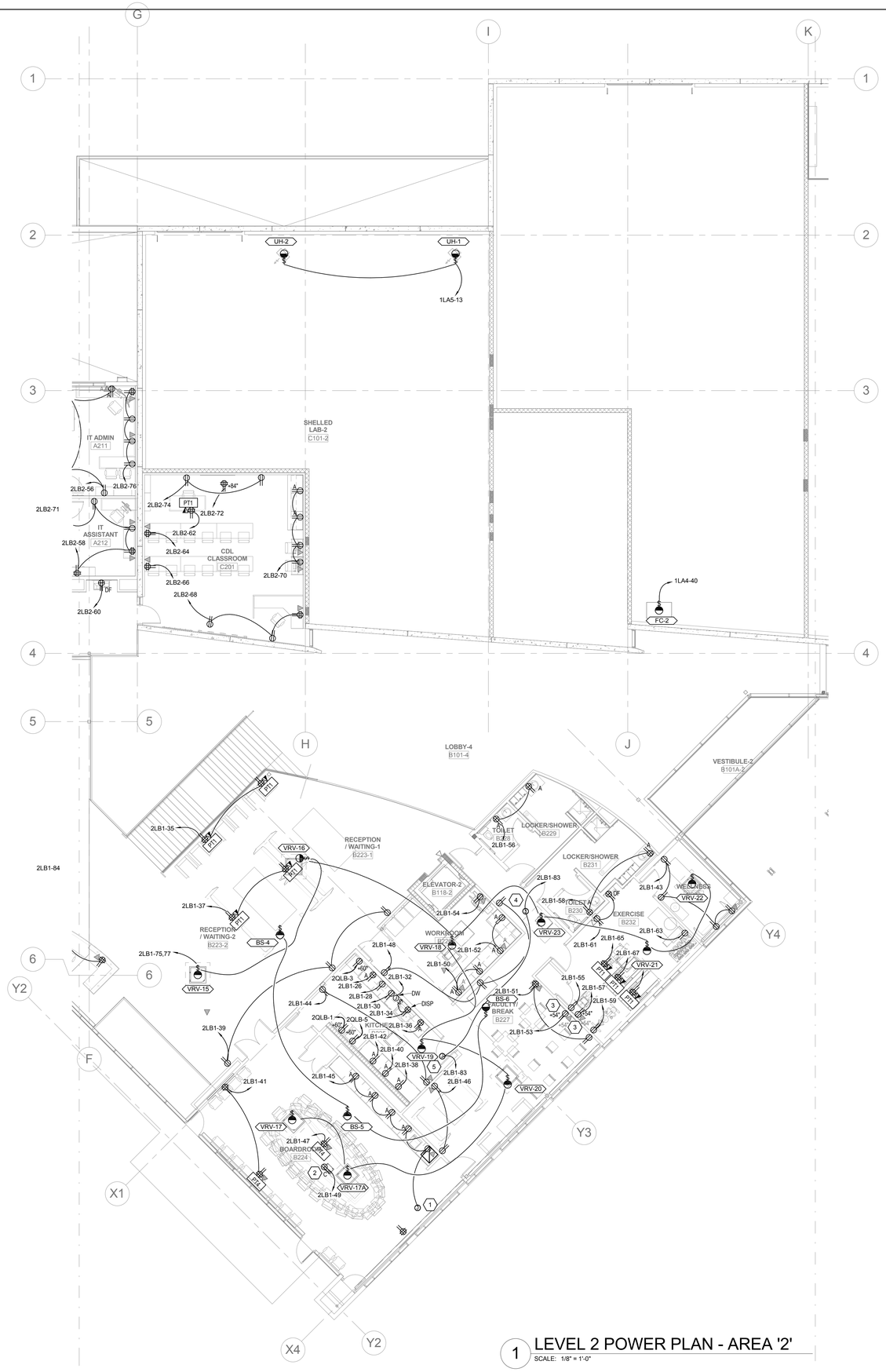

1 LEVEL 2 POWER PLAN - AREA '2'

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

PROJECT NORTH TRUE NORTH

GENERAL SHEET NOTES

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SHEET KEYNOTES

1 PROVIDE CONNECTION TO MOTORIZED WALL SYSTEM WITH ALL POWER AND CONTROL WIRING PER MANUFACTURER'S WRITTEN INSTRUCTIONS.

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3 OUTLET FOR WALL MOUNTED MONITOR. COORDINATE LOCATION WITH AV INSTALLER.

4 CIRCUITS FOR HVAC CONTROLS SYSTEM. COORDINATE LOCATION WITH MECHANICAL CONTROLS INSTALLER.

REGISTERED PROFESSIONAL ENGINEER No. 7162 STATE OF UTAH

01/18/2012

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project:
TOOELE APPLIED TECHNOLOGY COLLEGE - NEW BUILDING

88 South Tooele Blvd
Tooele, UT 84074

project#: 11.0420
date: 1/20/11

revisions :

Level 2 Power Plan - Area '2'

sheet:

EP122

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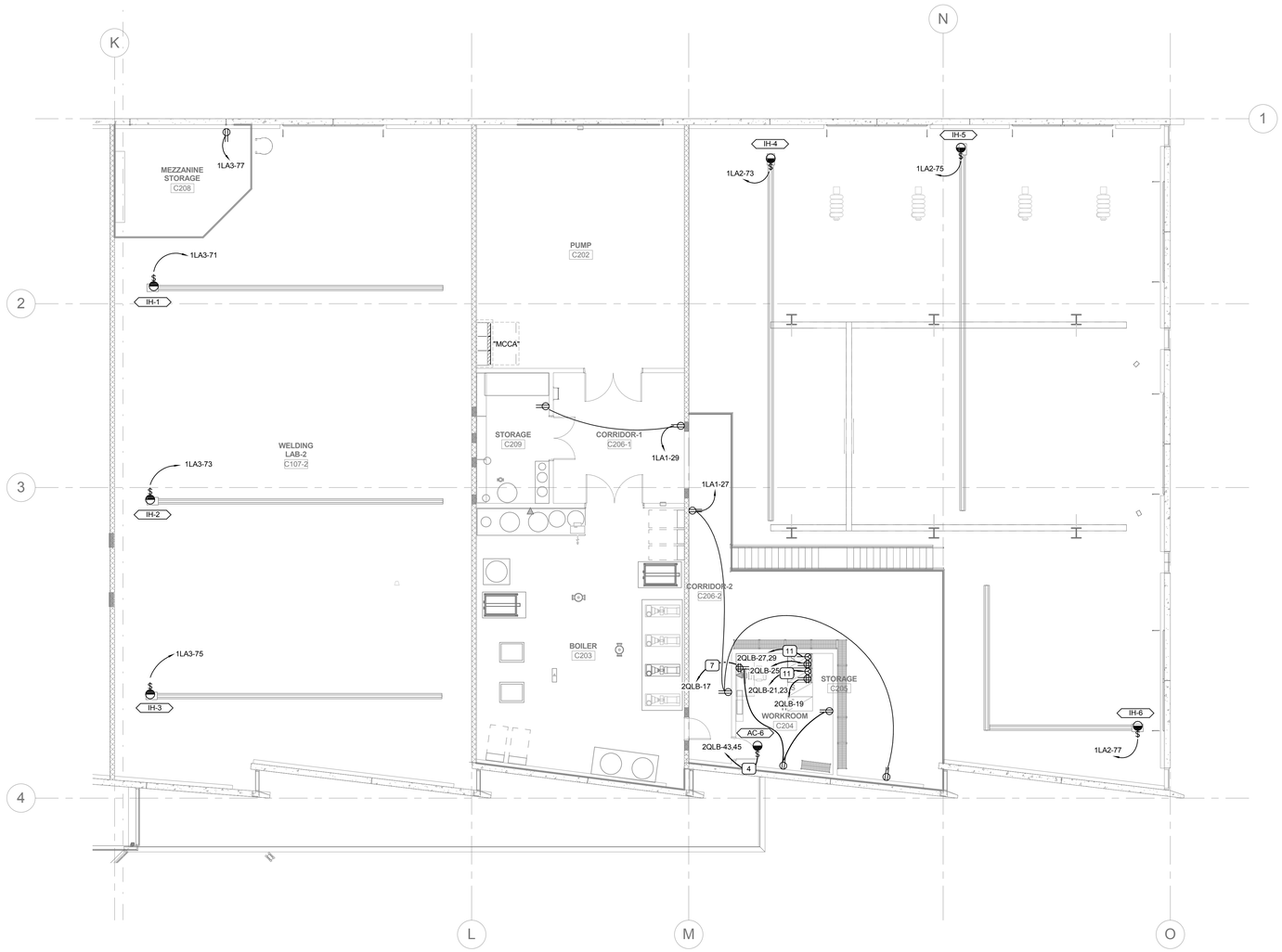
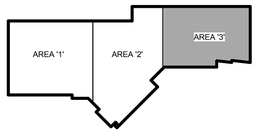


1 LEVEL 2 POWER PLAN - AREA '3'

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

PROJECT NORTH TRUE NORTH



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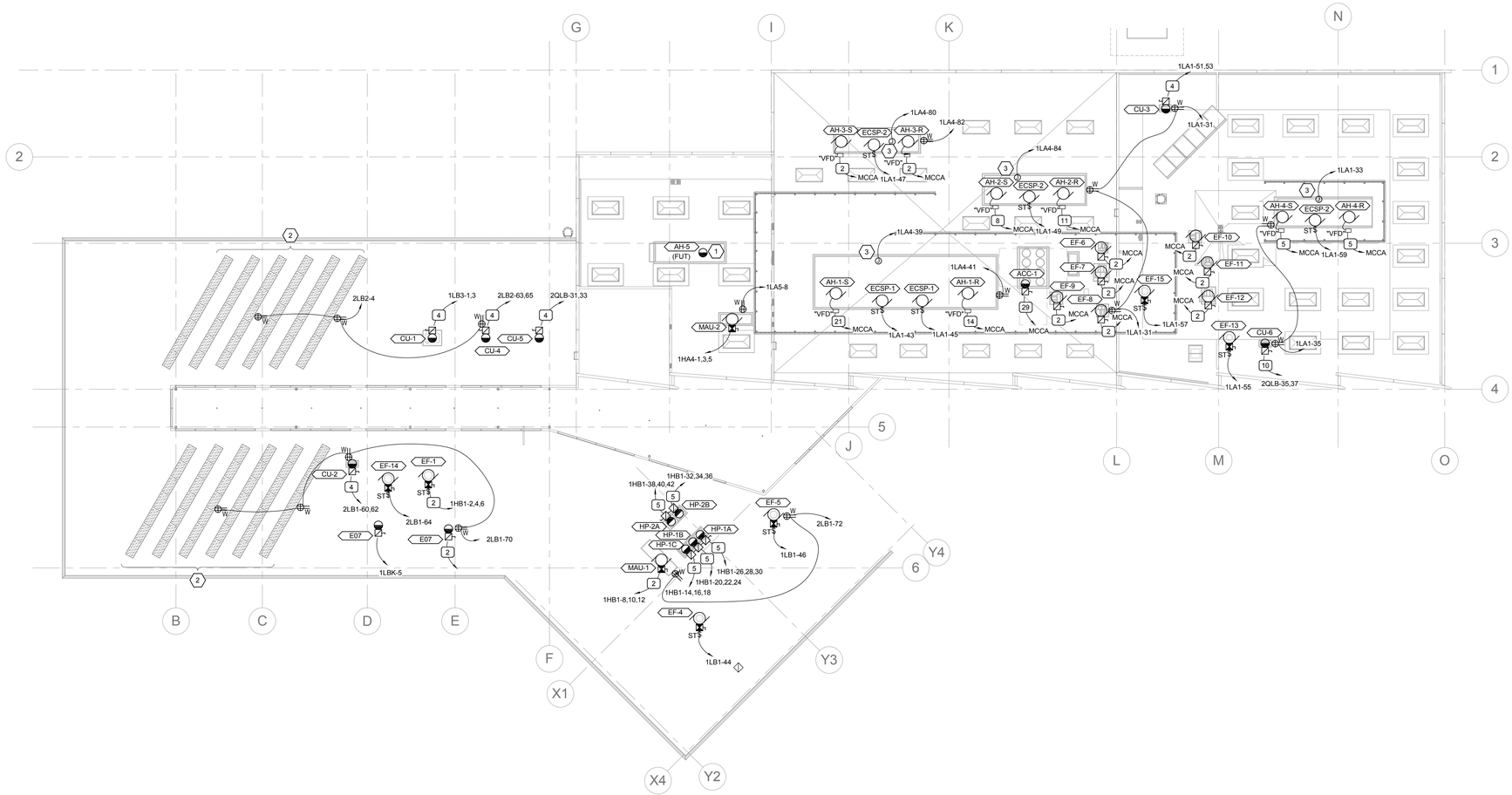

1 ROOF POWER PLAN

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

PROJECT NORTH TRUE NORTH

GENERAL SHEET NOTES

1 LOCATIONS OF MECHANICAL EQUIPMENT SHOWN IS APPROXIMATE. COORDINATE EXACT LOCATIONS WITH MECHANICAL INSTALLER PRIOR TO ROUGH-IN.

SHEET KEYNOTES

1 PROVIDE RACEWAY ONLY TO SITE OF FUTURE AH-5.

2 ROOF MOUNTED PV ARRAY. COORDINATE MOUNTING WITH STRUCTURAL.

3

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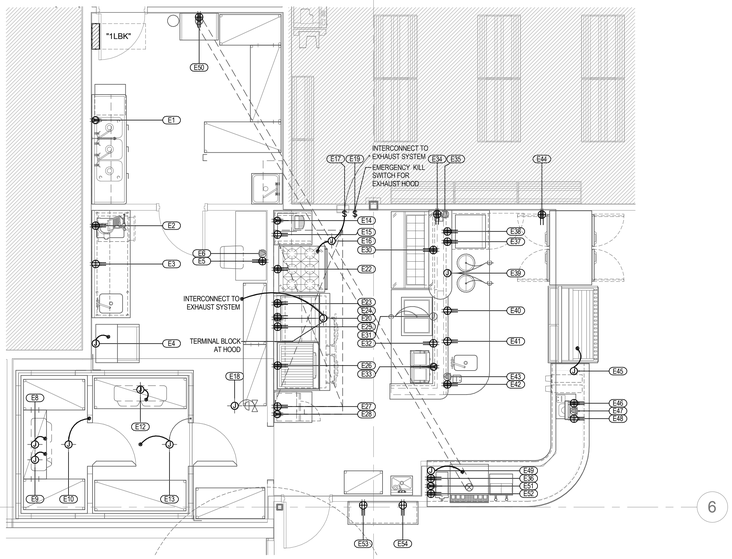
BISTRO KITCHEN

SCHEDULE: FOOD SERVICE EQUIPMENT

ROUGH-IN REQUIREMENTS			CONNECTION REQUIREMENTS							CIRCUIT REQUIREMENTS			
REF #	ROUGH—IN TYPE	HGT.	ITEM # : EQUIPMENT DESCRIPTION	CONNECTION TYPE	VOLTS	PHASE	AMPS	KW	HP	CONDUIT & CONDUCTORS	PANEL & CIRCUIT	CIRCUIT BREAKER	REMARK
E-01	OUTLET	+18"	#K6 : DISHWASHER	C&P	120/208	1	38			11	1LBK-1,3	50A/2P	
E-02	OUTLET	+48"	#K39 : SLICER	C&P	120	1			1/2	1	1LBK-2	20A/1P	
E-03	CONVENIENCE OUTLET	+48"	#K36 : WORK TABLE	C&P	120	1		0.18		1	1LBK-4	20A/1P	
E-04	JUNCTION BOX	+54"	#K7 : ICE MAKER	J—BOX	120	1	11.9			1	1LBK-6	20A/1P	
E-05	OUTLET	+18"	— : BASE COMPUTER	C&P	120	1				1	1LBK-8	20A/1P	
E-06	DATA OUTLET	+18"	— : BASE COMPUTER	—	—	—	—	—	—	—	—	—	
E-07	JUNCTION BOX	+108"	#K29A : WALK—IN FREEZER REF: CONDENSER	J—BOX	208	1	6.9			1	1LBK-5,7	20A/2P	NOTE 3
E-08	JUNCTION BOX	DFA	#K29B : WALK—IN FREEZER REF: BLOWER COILS	J—BOX	208	1	2			1	1LBK-9,11	20A/2P	
E-09	JUNCTION BOX	DFA	#K29B : WALK—IN FREEZER REF: DEFROST HTR	J—BOX	208	1	8.7			1	1LBK-13,15	20A/2P	
E-10	JUNCTION BOX	DFA	#K27 :WALK—IN FREEZER: LIGHTS AND HEATER	J—BOX	120	1	3			1	1LBK-10	20A/1P	
E-11	JUNCTION BOX	+108"	#K28A : WALK—IN COOLER REF: CONDENSER	J—BOX	208	3	7.4			2	1LBK-17,19,21	20A/3P	NOTE 3
E-12	JUNCTION BOX	DFA	#K28B : WALK—IN COOLER REF: BLOWER COILS	J—BOX	120	1	4.2			1	1LBK-12	20A/1P	
E-13	JUNCTION BOX	DFA	#K27 : WALK—IN COOLER: LIGHTS AND HEATER	J—BOX	120	1	4			1	1LBK-14	20A/1P	
E-14	OUTLET	+48"	#K25 : ROTARY TOASTER	C&P	208	1	13.6			1	1LBK-23,25	20A/2P	NOTE 6
E-15	CONVENIENCE OUTLET	+48"	#K11 : WORK COUNTER	C&P	120	1		0.18		1	1LBK-16	20A/1P	NOTE 6
E-16	JUNCTION BOX	DFA	#K14 :EXHAUST HOOD	J—BOX	120	1		0.6		1	1LBK-18	20A/1P	NOTE 6
E-17	SWITCH/CONTROLS	+54"	#K14 : EXHAUST HOOD: SWITCH	—	120	1				1	—	—	
E-18	JUNCTION BOX	DFA	#K15 :GAS SHUT OFF VALVE	J—BOX	120	1	1			1	1LBK-20	20A/1P	
E-19	EMERGENCY SWITCH	+54"	#K15 : EXHAUST HOOD: KILL SWITCH	—	—	—	—	—	—	—	—	—	
E-20	JUNCTION BOX	DFA	#K14 : EXHAUST HOOD: HEAT SENSOR	J— BOX	120	1	15			1	1LBK-22	20A/1P	NOTE 4
E-21	NOT USED												
E-22	OUTLET	+30"	#K16 : RANGE CONVECTION OVEN	C&P	120	1	9			1	1LBK-24	20A/1P	NOTE 6
E-23	OUTLET	+18"	#K17 : REFRIGERATED GRILL STAND	C&P	120	1	8			1	1LBK-26	20A/1P	NOTE 6
E-24	OUTLET	+30"	#K19 : FLAT TOP GRIDDLE	C&P	120	1	1			1	1LBK-28	20A/1P	NOTE 6
E-25	OUTLET	+76"	#K21 : SALAMANDER BROILER	C&P	120	1	1			1	1LBK-30	20A/1P	NOTE 6
E-26	OUTLET	+30"	#K22 : OPEN FACE GRIDDLE	C&P	120	1	1			1	1LBK-32	20A/1P	NOTE 6
E-27	CONVENIENCE OUTLET	+48"	#K23 : WORK COUNTER	C&P	120	1		0.18		1	1LBK-34	20A/1P	NOTE 6
E-28	OUTLET	+66"	#K24 : MICROWAVE OVEN	C&P	208	1		1.8		1	1LBK-30,32	20A/2P	NOTE 6
E-29	NOT USED												
E-30	OUTLET	+18"	#K32 : REFRIGERATED COUNTER	C&P	120	1	9			1	1LBK-36	20A/1P	
E-31	JUNCTION BOX	+18"	#K34 : HOT FOOD WARMER	J—BOX	208	1	10.6			1	1LBK-27,29	20A/2P	
E-32	CONVENIENCE OUTLET	+42"	#K33 : WORK COUNTER	C&P	120	1		0.18		1	1LBK-38	20A/1P	
E-33	OUTLET	+42"	#K35 : PANI NI GRILL	C&P	208	1	16			1	1LBK-31,33	20A/2P	
E-34	OUTLET	+66"	#E2 : POS PRINTER	C&P	120	1				1	1LBK-40	20A/1P	
E-35	DATA OUTLET	+66"	#E2 : POS PRINTER	—	—	—	—	—	—	—	—	—	
E-36	OUTLET	+28"	#K54 : SODA AND ICE DISPENSER	C&P	120	1	3.2			1	1LBK-42	20A/1P	
E-37	OUTLET	+12"	#K44 : REFRIGERATED BASE	C&P	120	1	4			1	1LBK-44	20A/1P	
E-38	OUTLET	+42"	#K45 : ESPRESSO MACHINE	C&P	120/208	1		6.7		11	1LBK-35,37	50A/2P	
E-39	JUNCTION BOX	+18"	#K46 : SOUP WARMER	J—BOX	208	1	13.4			1	1LBK-39,41	20A/2P	
E-40	CONVENIENCE OUTLET	+42"	#K41 : WORK COUNTER	C&P	120	1		0.18		1	1LBK-46	20A/1P	
E-41	CONVENIENCE OUTLET	+42"	#K41 : WORK COUNTER	C&P	120	1		0.18		1	1LBK-48	20A/1P	
E-42	OUTLET	+42"	#E2 : POS PRINTER	C&P	120	1				1	1LBK-50	20A/1P	
E-43	DATA OUTLET	+66"	#E2 : POS PRINTER	—	—	—	—	—	—	—	—	—	
E-44	OUTLET	+18"	#K51 : MERCHANDISING REFRIGERATOR	C&P	120	1	7.3			1	1LBK-52	20A/1P	
E-45	JUNCTION BOX	STUB	#K52 : REFRIGERATED DISPLAY CABINET	J—BOX	208	1	17.28			4	1LBK-43,45	30A/2P	
E-46	OUTLET	STUB	#E1 : POS REGISTER	C&P	120	1				1	1LBK-54	20A/1P	
E-47	DATA OUTLET	STUB	#E1 : POS REGISTER	—	—	—	—	—	—	—	—	—	
E-48	CONVENIENCE OUTLET	STUB	#MW1 : SERVICE COUNTER	C&P	120	1		0.18		1	1LBK-56	20A/1P	
E-49	JUNCTION BOX	+28"	#K55 : ICE MAKER	J—BOX	208	1	11.9			1	1LBK-47,49	20A/2P	
E-50	OUTLET	+18"	#K54A : SODA SYSTEM RACK	C&P	120	1	10			1	1LBK-58	20A/1P	
E-51	OUTLET	+28"	#K56 : COFFEE BREWER	C&P	120/208	1	36			11	1LBK-51,53	50A/2P	
E-52	OUTLET	+28"	#K57 : ICE TEA DISPENSER	C&P	120	1	14			1	1LBK-60	20A/1P	
E-53	CONVENIENCE OUTLET	+48"	#MW2 : SERVICE COUNTER	C&P	120	1		0.18		1	1LBK-62	20A/1P	
E-54	CONVENIENCE OUTLET	+48"	#MW2 : SERVICE COUNTER	C&P	120	1		0.18		1	1LBK-64	20A/1P	

NOTES:
1. REFER TO FOOD SERVICE EQUIPMENT DRAWINGS FOR ADDITIONAL INFORMATION AND REQUIREMENTS.
2. COORDINATE LOCATION OF EACH ROUGH-IN WITH KITCHEN EQUIPMENT INSTALLER.
3. REFER TO ROOF POWER PLAN EP130 FOR LOCATION.
4. PROVIDE CONTROL INTERCONNECT BETWEEN HEAT SENSOR AND HOOD EXHAUST FAN.
5. PROVIDE GFCI PROTECTION FOR ALL 120V, 15A AND 20A RECEPTACLES PER NFPA 72-210.8(B).
6. PROVIDE SHUNT-TRIP BREAKER FOR ALL EQUIPMENT UNDER EXHAUST HOOD PER NFPA 96-10.4. INTERLOCK WITH HOOD FIRE EXTINGUISHER SYSTEM.



1 ENLARGED BISTRO POWER PLAN
SCALE: 1/4" = 1'-0"

PROJECT NORTH TRUE NORTH

GENERAL SHEET NOTES

SHEET KEYNOTES

01/18/2012

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project:
TOOELE APPLIED TECHNOLOGY COLLEGE - NEW BUILDING

88 South Tooele Blvd
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project#: 11.0420
date: 1/20/11

revisions :

Enlarged bistro power plan

sheet:

EP401

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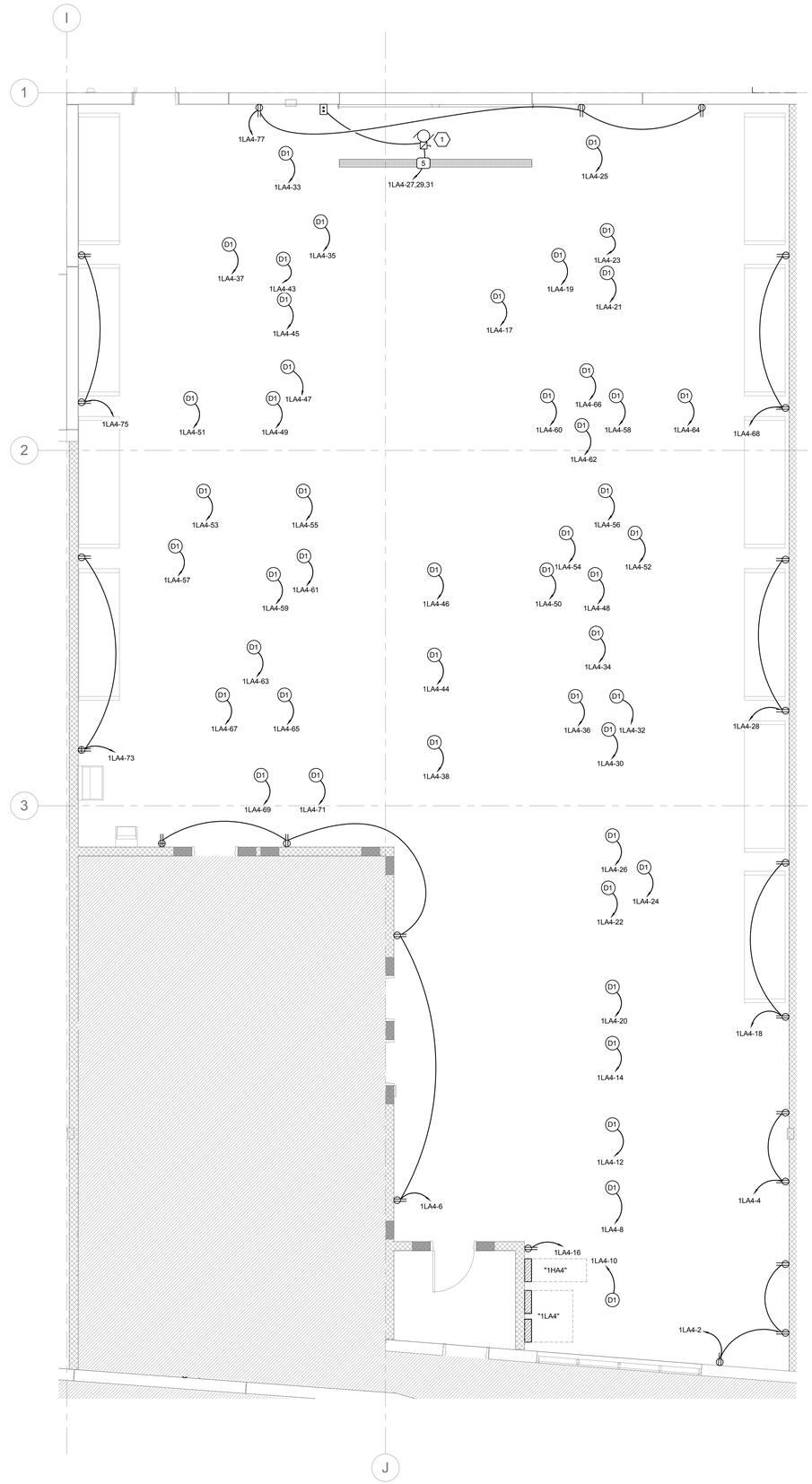

1 ENLARGED CONSTRUCTION TECHNOLOGY LAB POWER PLAN

SCALE: 1/4" = 1'-0"

PROJECT NORTH TRUE NORTH

GENERAL SHEET NOTES

1 COORDINATE EXACT LOCATIONS OF DROP CORD REELS WITH LAB EQUIPMENT.

2 COORDINATE MOUNTING LOCATIONS OF DROP CORD REELS WITH LIGHT FIXTURES AND MECHANICAL ABOVE.

3 MOUNT RECEPTACLES IN ALL SHOP AREAS AT +48" AFF.

SHEET KEYNOTES

1 PROVIDE CONNECTION OT OVERHEAD MOTORIZED DOOR WITH ALL POWER AND CONTROL WIRING PER MANUFACTURER'S WRITTEN INSTRUCTIONS.

REGISTERED PROFESSIONAL ENGINEER No. 7862 STATE OF UTAH

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date: 1/20/11

revisions :

Enlarged lab power plan

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EP402

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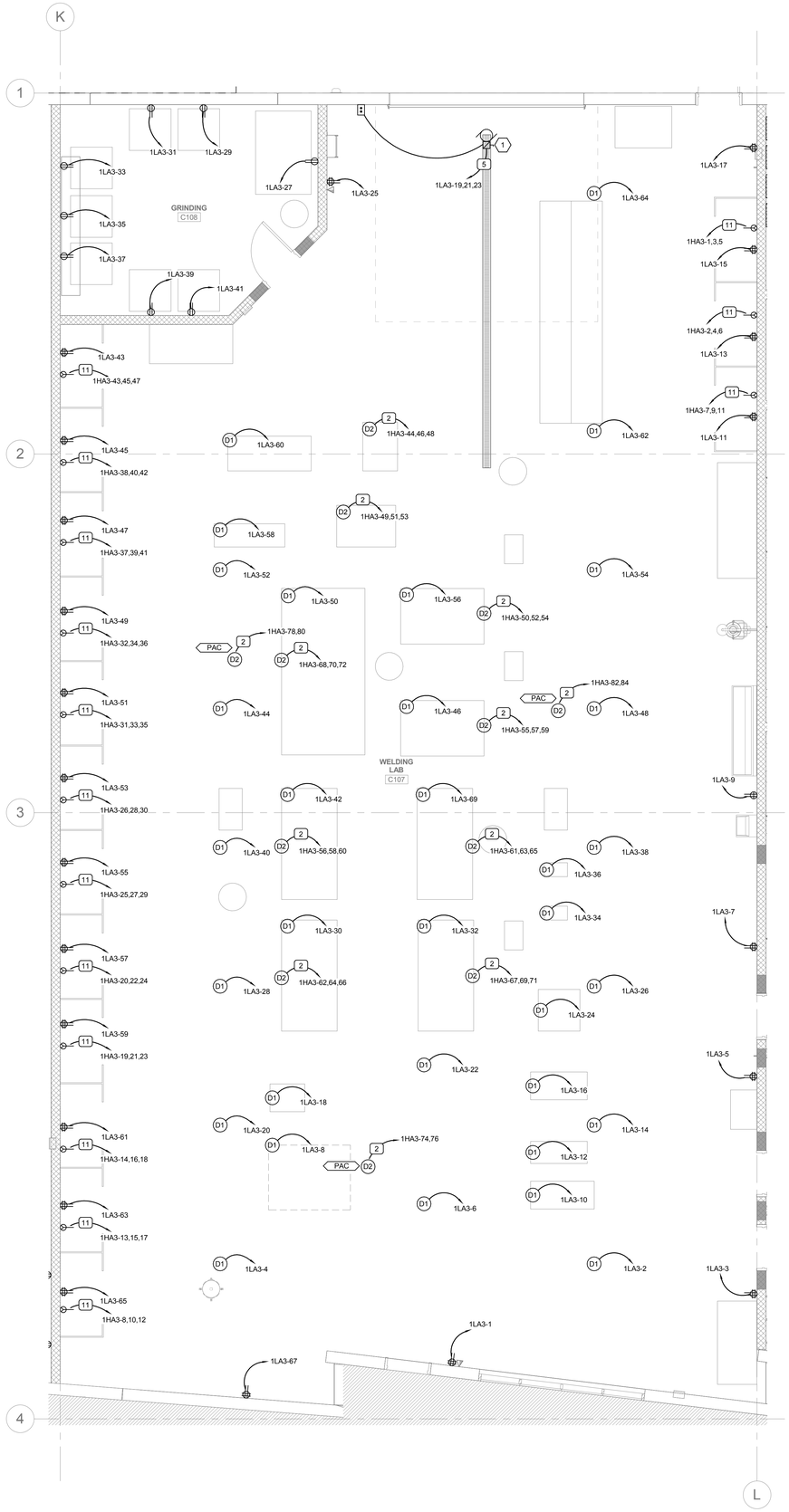

1 ENLARGED WELDING LAB POWER PLAN

SCALE: 1/4" = 1'-0"

PROJECT NORTH TRUE NORTH

GENERAL SHEET NOTES

1 COORDINATE EXACT LOCATIONS OF DROP CORD REELS WITH LAB EQUIPMENT.

2 COORDINATE MOUNTING LOCATIONS OF DROP CORD REELS WITH LIGHT FIXTURES AND MECHANICAL ABOVE.

3 MOUNT RECEPTACLES IN ALL SHOP AREAS AT +48" AFF.

SHEET KEYNOTES

1 PROVIDE CONNECTION OT OVERHEAD MOTORIZED DOOR WITH ALL POWER AND CONTROL WIRING PER MANUFACTURER'S WRITTEN INSTRUCTIONS.

REGISTERED PROFESSIONAL ENGINEER No. 7862 STATE OF UTAH

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revisions :

Enlarged lab power plan

sheet:

EP403

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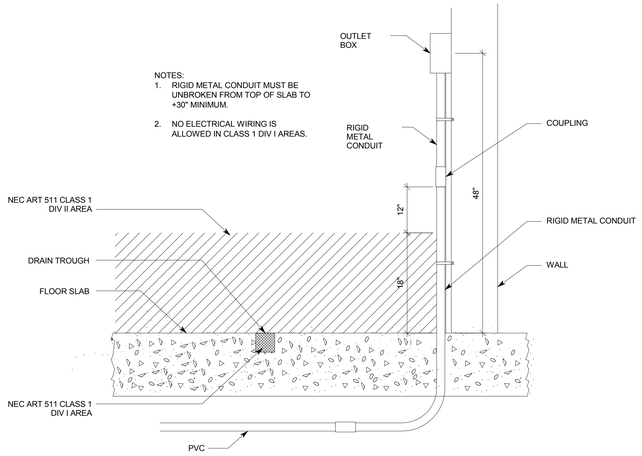
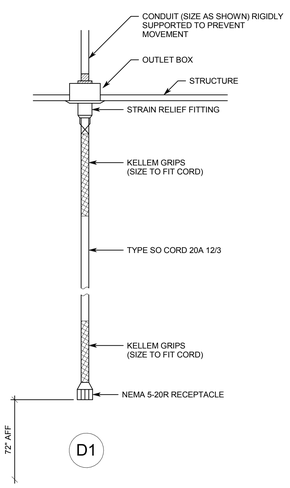
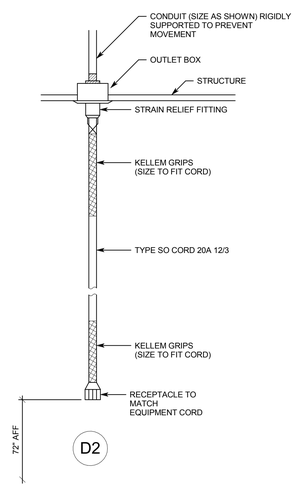


3 CE&R LAB SHOP OUTLET DETAIL
SCALE: NTS



1 120V DROP CORD DETAIL
SCALE: NTS



2 SPECIAL PURPOSE DROP CORD DETAIL
SCALE: NTS

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88 South Tooele Blvd
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project#: 11.0420
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Power details

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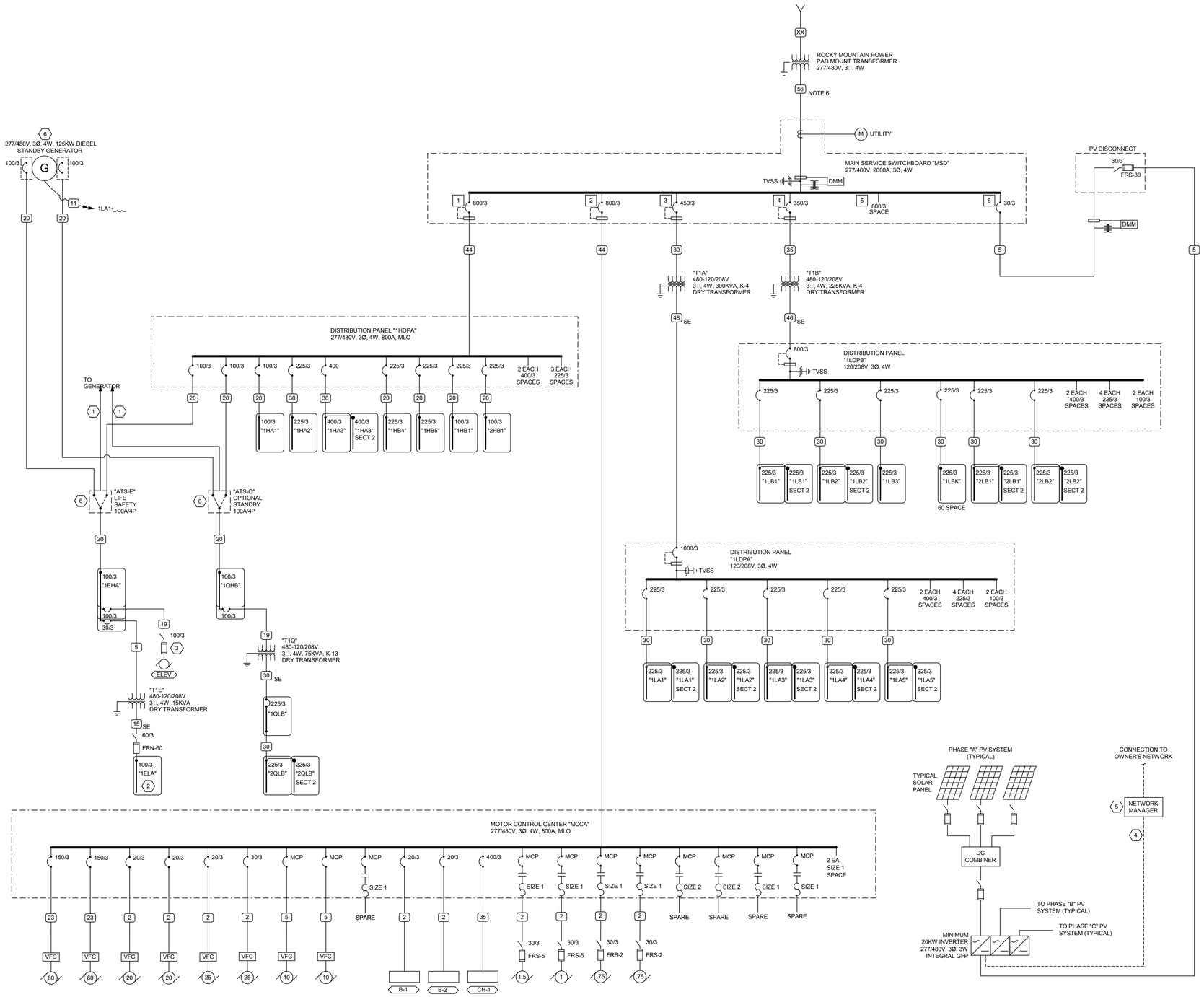

GENERAL SHEET NOTES

1. PROVIDE NEMA 3R ENCLOSURES FOR EQUIPMENT LOCATED OUTDOORS. REFER TO PLANS FOR EQUIPMENT LOCATIONS.
2. REFER TO PLANS FOR CONSTRAINTS ON PHYSICAL DIMENSIONS AND CLEARANCE REQUIREMENTS OF EQUIPMENT. PROVIDE EQUIPMENT DIMENSIONS THAT FALL WITHIN THE CONSTRAINTS OF EACH SPECIFIC LOCATION.
3. ALL EQUIPMENT SHALL BE CONSTRUCTED AND BRACED FOR THE SEISMIC CONDITIONS OF THE PROJECT. REFER TO SPECIFICATIONS SECTION 16071 FOR REQUIREMENTS.

SHEET KEYNOTES

1. 1" CND WITH CONTROL WIRING PER MANUFACTURER'S WRITTEN INSTRUCTIONS.
2. PROVIDE FUSIBLE BRANCH PANELBOARD FOR SELECTIVE COORDINATION PER NEC ARTICLE 700. BUSSMAN COORDINATION MODULE OR EQUIVALENT.
3. PROVIDE FUSIBLE SHUNT-TRIP SWITCH WITH AUXILIARY CONTACTS FOR FIRE ALARM/ELEVATOR INTERFACE. BUSSMAN TYPE "FS" OR EQUIVALENT. COORDINATE FUSE RATING WITH ELEVATOR INSTALLER.
4. PROVIDE COMMUNICATIONS CABLING IN 1" CONDUIT AS REQUIRED BY EQUIPMENT.
5. NETWORK MANAGER DEVICE FOR WEB MONITORING OF PHOTOVOLTAIC ARRAY. PROVIDE NETWORK COMMUNICATION CARDS IN INVERTERS AS REQUIRED.
6. GENERATOR AND TRANSFER SWITCHES ARE PART OF BID ALTERNATE #7. IF ALTERNATE IS NOT ACCEPTED, PROVIDE PULL BOXES IN LIEU OF TRANSFER SWITCHES ON NORMAL POWER FEEDERS TO FACILITATE FUTURE TRANSFER SWITCH INSTALLATION.

CONDUCTOR AND CONDUIT SCHEDULE

SCHEDULE NUMBER
SUBSCRIPT (NOTE 5)
(E.G. 5 IG)

SYM	AMP	CONDUIT SIZE	CONDUCTOR (NOTE 1) QTY	SIZE	G	IG	SE	NOTES
1	20	.75	2	12	12	12	8	2
2	20	.75	3	12	12	12	8	2,3
3	20	.75	4	12	12	12	8	2,3
4	30	.75	2	10	10	10	8	2
5	30	.75	3	10	10	10	8	2
6	30	.75	4	10	10	10	8	2
7	40	1	2	8	10	8	6	2
8	40	1	3	8	10	8	6	2
9	40	1	4	8	10	8	6	2
10	55	1	2	6	10	8	4	2
11	55	1	3	6	10	8	4	2
12	55	1.25	4	6	10	8	4	2
13	70	1	2	4	8	4	2	2
14	70	1.25	3	4	8	4	2	2
15	70	1.25	4	4	8	4	2	2
16	85	1.25	2	3	8	3	2	2
17	85	1.25	3	3	8	3	2	2
18	85	1.25	4	3	8	3	2	2
19	95	1.25	3	2	8	2	2	2
20	95	1.50	4	2	8	2	2	2
21	130	1.50	3	1	6	2	2	2
22	130	1.50	4	1	6	2	2	2
23	150	2	3	1/0	6	2	1/0	2
24	150	2	4	1/0	6	2	1/0	2
25	175	2	3	2/0	6	2	2/0	2
26	175	2	4	2/0	6	2	2/0	2
27	200	2	3	3/0	6	2	2/0	2
28	200	2.50	4	3/0	6	2	2/0	2
29	230	2.50	3	4/0	4	2	2/0	2
30	230	2.50	4	4/0	4	2	2/0	2
31	255	2.50	3	250	4	1	2/0	2
32	255	2.50	4	250	4	1	2/0	2
33	310	3	3	350	3	1/0	3/0	2
34	310	3	4	350	3	1/0	3/0	2
35	380	3.50	3	500	3	3/0	3/0	2
36	380	4	4	500	3	3/0	3/0	2
37	400	2 EA 2	3	3/0	3	3/0	3/0	2
38	400	2 EA 2.50	4	3/0	3	3/0	3/0	2
39	510	2 EA 2.50	3	250	1	4/0	3/0	2
40	510	2 EA 3	4	250	1	4/0	3/0	2
41	620	2 EA 3	3	350	1/0	4/0	3/0	2,4
42	620	2 EA 3	4	350	1/0	4/0	3/0	2,4
43	780	2 EA 3.50	3	500	1/0	4/0	3/0	2,4
44	780	2 EA 4	4	500	1/0	4/0	3/0	2,4
45	855	3 EA 3	3	300	2/0	4/0	3/0	2,4
46	855	3 EA 3	4	300	2/0	4/0	3/0	2,4
47	1000	3 EA 3.50	3	400	2/0	4/0	3/0	4
48	1000	3 EA 3.50	4	400	2/0	4/0	3/0	4
49	1140	3 EA 4	3	500	3/0	4/0	3/0	4
50	1140	2 EA 4	4	500	3/0	4/0	3/0	4
51	1240	4 EA 3	3	350	3/0	4/0	3/0	4
52	1240	4 EA 3	4	350	3/0	4/0	3/0	4
53	1675	5 EA 3.50	4	400	4/0	4/0	4/0	4
54	2010	6 EA 3.50	4	400	250	250	250	4
55	2660	7 EA 4	4	500	350	350	350	4
56	3040	8 EA 4	4	500	500	500	500	4
57	4180	11 EA 4	4	500	500	500	500	4
58		5 EA 4						6
59		5						6
60		10 EA 4						6

CONDUCTOR AND CONDUIT SCHEDULE NOTES

1. CONDUCTORS SHOWN ARE SHOWN FOR EACH CONDUIT WITH MODIFICATIONS AS NOTED IN NOTE 5. ALL CONDUCTORS SHOWN ARE THWN UNLESS OTHERWISE NOTED.
2. PROVIDE EQUIPMENT GROUND CONDUCTORS PER TABLE 250-122 WHEN CIRCUIT BREAKERS ARE SIZED GREATER THAN AMPERE RATING SHOWN IN TABLE.
3. PROVIDE #10 NEUTRALS FOR MULTIWIRE BRANCH CIRCUITS SERVING COMPUTERS.
4. GROUND (G) CONDUCTOR MAY BE DELETED ON SERVICE ENTRANCE CONDUCTORS.
5. WHEN SYMBOL SUBSCRIPT INDICATES "IG", INCLUDE "IG" OR INSULATED GROUND CONDUCTOR SCHEDULED ALONG WITH GROUND OR EQUIPMENT GROUND CONDUCTOR. WHEN SYMBOL SUBSCRIPT INDICATES "SE", SUBSTITUTE "SE" CONDUCTOR FOR "G" CONDUCTOR SHOWN WHICH IS SIZED FOR THE GROUNDING OF THE SECONDARY OF THE SEPARATELY DERIVED SYSTEMS.
6. RACEWAY ONLY. CONDUCTORS PROVIDED BY UTILITY.

REGISTERED PROFESSIONAL ENGINEER No. 7162 STATE OF UTAH
01/18/2012

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One-Line Diagram

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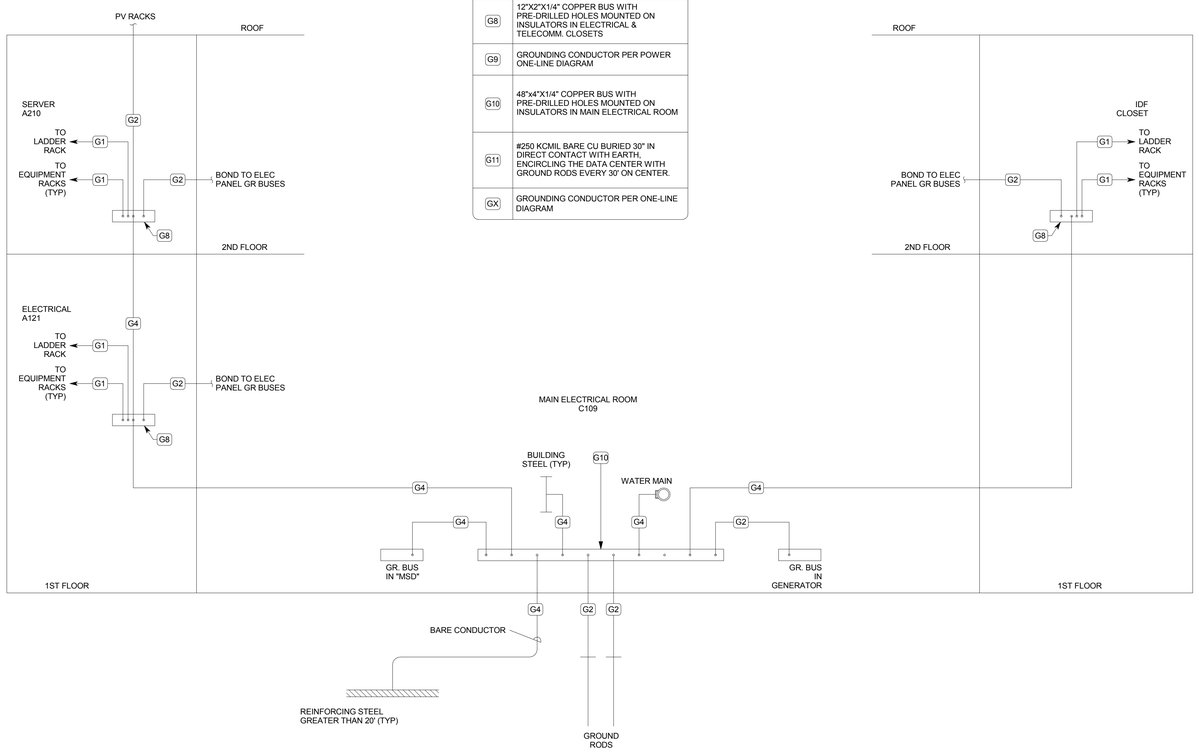
GENERAL SHEET NOTES

1. REFER TO ONE-LINES, PLANS, AND SPECIFICATIONS FOR ADDITIONAL GROUNDING REQUIREMENTS.
2. BOND SPECIFIED GROUND CONDUCTOR TO INDIVIDUAL EQUIPMENT RACKS.
3. GROUND TELECOMMUNICATIONS EQUIPMENT ACCORDING TO ANSI/TIA/EIA 607-A
4. EQUIPMENT RACKS REFERRED TO ON THIS SHEET INCLUDE TELECOMMUNICATIONS AND AUDIO VISUAL SYSTEM RACKS. REFER TO EJ AND ET SERIES SHEETS FOR RACK LOCATIONS.

GROUNDING SCHEDULE

ALL CONDUCTORS ARE INSULATED UNLESS INDICATED OTHERWISE

SYM	SIZE
G1	#6 CU
G2	#4 CU
G3	#1/0 CU
G4	#4/0 CU
G5	#250 KCMIL CU
G6	#350 KCMIL CU
G7	#500 KCMIL CU
G8	12"X2"X1/4" COPPER BUS WITH PRE-DRILLED HOLES MOUNTED ON INSULATORS IN ELECTRICAL & TELECOMM. CLOSETS
G9	GROUNDING CONDUCTOR PER POWER ONE-LINE DIAGRAM
G10	48"x4"X1/4" COPPER BUS WITH PRE-DRILLED HOLES MOUNTED ON INSULATORS IN MAIN ELECTRICAL ROOM
G11	#250 KCMIL BARE CU BURIED 30" IN DIRECT CONTACT WITH EARTH. ENCIRCLING THE DATA CENTER WITH GROUND RODS EVERY 30' ON CENTER.
GX	GROUNDING CONDUCTOR PER ONE-LINE DIAGRAM



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project:
TOOELE APPLIED TECHNOLOGY COLLEGE - NEW BUILDING

88 South Tooele Blvd
Tooele, UT 84074

project#: 11.0420
date: 1/20/11

revisions :

Grounding Riser Diagram

sheet:

EP602

100% Construction Documents

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EQUIPMENT SCHEDULE

MARK	QTY	ITEM DESCRIPTION	LOAD DATA							WIRE AND CONDUIT SIZE	OVERCURRENT PROTECTION			DISCONNECT			STARTER DATA									NOTES	MARK
			HP	kW	MCA	FLA	VOLT	PH	Hz		FURN BY	DEVICE	LOCATION	FURN BY	DEVICE	LOCATION	FURN BY	DEVICE	LOCATION	SIZE	SELECTOR SWITCH	PILOT LAMP	NORMALLY OPEN CONTACTS	NORMALLY CLOSED CONTACTS	PHASE FAILURE RELAY		
AC-1		AIR CONDITIONER			1		208	1	60	2 #12, #12 GR 0.75" CND	E	15A/2P CB	PANEL	E	THERMAL SWITCH	ADJ. TO EQUIP.	Q										AC-1
AC-2		AIR CONDITIONER			1		208	1	60	2 #12, #12 GR 0.75" CND	E	15A/2P CB	PANEL	E	THERMAL SWITCH	ADJ. TO EQUIP.	Q										AC-2
AC-3		AIR CONDITIONER			1		208	1	60	2 #12, #12 GR 0.75" CND	E	15A/2P CB	PANEL	E	THERMAL SWITCH	ADJ. TO EQUIP.	Q										AC-3
AC-4		AIR CONDITIONER			1		208	1	60	2 #12, #12 GR 0.75" CND	E	15A/2P CB	PANEL	E	THERMAL SWITCH	ADJ. TO EQUIP.	Q										AC-4
AC-5		AIR CONDITIONER			1		208	1	60	2 #12, #12 GR 0.75" CND	E	15A/2P CB	PANEL	E	THERMAL SWITCH	ADJ. TO EQUIP.	Q										AC-5
AC-6		AIR CONDITIONER			1		208	1	60	2 #12, #12 GR 0.75" CND	E	15A/2P CB	PANEL	E	THERMAL SWITCH	ADJ. TO EQUIP.	Q										AC-6
ACC-1		AIR COOLED CONDENSING UNIT		106.2	198		480	3	60	3 #4/0, #4 GR 2.5" CND	E	225A/3P CB	MCCA	Q			Q										ACC-1
ACP-1		AIR COMPRESSOR	25			34	480	3	60	3 #6, #10 GR 1" CND	E	60A/3P CB	PANEL	E	60A/3P FRS-45	ADJ. TO EQUIP	Q										ACP-1
AD-1		AIR DRYER					120	1	60	2 #12, #12 GR 0.75" CND	E	20A/1P CB	PANEL	E	CORD & PLUG	ADJ. TO EQUIP.	Q										AD-1
AH-1-R		AIR HANDLER RETURN FAN	27				480	3	60	3 #4, #8 GR 1.25" CND	E	70A/3P CB	MCCA	E	VFD	ADJ. TO EQUIP.	E	VFD	ADJ. TO EQUIP.							NOTE 4	AH-1-R
AH-1-S		AIR HANDLER SUPPLY FAN	48				480	3	60	3 #1, #6 GR 1.5" CND	E	125A/3P CB	MCCA	E	VFD	ADJ. TO EQUIP	E	VFD	ADJ. TO EQUIP.							NOTE 5	AH-1-S
AH-2-R		AIR HANDLER RETURN FAN	20			27	480	3	60	3 #6, #10 GR 1" CND	E	50A/3P CB	MCCA	E	VFD	ADJ. TO EQUIP.	E	VFD	ADJ. TO EQUIP.								AH-2-R
AH-2-S		AIR HANDLER SUPPLY FAN	15			21	480	3	60	3 #8, #10 GR 1" CND	E	40A/3P CB	MCCA	E	VFD	ADJ. TO EQUIP.	E	VFD	ADJ. TO EQUIP.								AH-2-S
AH-3-R		AIR HANDLER RETURN FAN	5			7.6	480	3	60	3 #12, #12 GR 0.75" CND	E	15A/3P CB	MCCA	E	VFD	ADJ. TO EQUIP.	E	VFD	ADJ. TO EQUIP.								AH-3-R
AH-3-S		AIR HANDLER SUPPLY FAN	7.5			11	480	3	60	3 #12, #12 GR 0.75" CND	E	20A/3P CB	MCCA	E	VFD	ADJ. TO EQUIP.	E	VFD	ADJ. TO EQUIP.								AH-3-S
AH-4-R		AIR HANDLER RETURN FAN	10			14	480	3	60	3 #10, #10 GR 0.75" CND	E	30A/3P CB	MCCA	E	VFD	ADJ. TO EQUIP.	E	VFD	ADJ. TO EQUIP.								AH-4-R
AH-4-S		AIR HANDLER SUPPLY FAN	10			14	480	3	60	3 #10, #10 GR 0.75" CND	E	30A/3P CB	MCCA	E	VFD	ADJ. TO EQUIP.	E	VFD	ADJ. TO EQUIP.								AH-4-S
AH-5		FUTURE AIR HANDLER	5			7.6	480	3	60	3 #12, #12 GR 0.75" CND	E	15A/3P CB	MCCA	E												NOTE 3	AH-5
ATC	8	AIR TEMP CONTROL PANEL					120	1	60	2 #12, #12 GR 0.75" CND	E	20A/1P CB	PANEL	Q			Q										ATC
B-1		BOILER				15	120	1	60	2 #12, #12 GR 0.75" CND	E	20A/1P CB	PANEL	E	THERMAL SWITCH	ADJ. TO EQUIP.	Q									NOTE 6	B-1
B-2		BOILER				15	120	1	60	2 #12, #12 GR 0.75" CND	E	20A/1P CB	PANEL	E	THERMAL SWITCH	ADJ. TO EQUIP.	Q									NOTE 6	B-2
BS-1		BRANCH SELECTOR			0.4		208	1	60	2 #12, #12 GR 0.75" CND	E	15A/2P CB	PANEL	E	THERMAL SWITCH	ADJ. TO EQUIP.	Q										BS-1
BS-2		BRANCH SELECTOR			0.4		208	1	60	2 #12, #12 GR 0.75" CND	E	15A/2P CB	PANEL	E	THERMAL SWITCH	ADJ. TO EQUIP.	Q										BS-2
BS-3		BRANCH SELECTOR			0.4		208	1	60	2 #12, #12 GR 0.75" CND	E	15A/2P CB	PANEL	E	THERMAL SWITCH	ADJ. TO EQUIP.	Q										BS-3
BS-4		BRANCH SELECTOR			0.4		208	1	60	2 #12, #12 GR 0.75" CND	E	15A/2P CB	PANEL	E	THERMAL SWITCH	ADJ. TO EQUIP.	Q										BS-4
BS-5		BRANCH SELECTOR			0.4		208	1	60	2 #12, #12 GR 0.75" CND	E	15A/2P CB	PANEL	E	THERMAL SWITCH	ADJ. TO EQUIP.	Q										BS-5
BS-6		BRANCH SELECTOR			0.4		208	1	60	2 #12, #12 GR 0.75" CND	E	15A/2P CB	PANEL	E	THERMAL SWITCH	ADJ. TO EQUIP.	Q										BS-6
BS-7		BRANCH SELECTOR			0.4		208	1	60	2 #12, #12 GR 0.75" CND	E	15A/2P CB	PANEL	E	THERMAL SWITCH	ADJ. TO EQUIP.	Q										BS-7
BS-8		BRANCH SELECTOR			0.4		208	1	60	2 #12, #12 GR 0.75" CND	E	15A/2P CB	PANEL	E	THERMAL SWITCH	ADJ. TO EQUIP.	Q										BS-8
BS-9		BRANCH SELECTOR			0.4		208	1	60	2 #12, #12 GR 0.75" CND	E	15A/2P CB	PANEL	E	THERMAL SWITCH	ADJ. TO EQUIP.	Q										BS-9
BS-10		BRANCH SELECTOR			0.4		208	1	60	2 #12, #12 GR 0.75" CND	E	15A/2P CB	PANEL	E	THERMAL SWITCH	ADJ. TO EQUIP.	Q										BS-10
BS-11		BRANCH SELECTOR			0.4		208	1	60	2 #12, #12 GR 0.75" CND	E	15A/2P CB	PANEL	E	THERMAL SWITCH	ADJ. TO EQUIP.	Q										BS-11
BS-12		BRANCH SELECTOR			0.4		208	1	60	2 #12, #12 GR 0.75" CND	E	15A/2P CB	PANEL	E	THERMAL SWITCH	ADJ. TO EQUIP.	Q										BS-12
BS-13		BRANCH SELECTOR			0.4		208	1	60	2 #12, #12 GR 0.75" CND	E	15A/2P CB	PANEL	E	THERMAL SWITCH	ADJ. TO EQUIP.	Q										BS-13
CFS-1		CHEMICAL FEED SYSTEM	1/3			7.2	120	1	60	2 #12, #12 GR 0.75" CND	E	15A/1P CB	PANEL	E	CORD & PLUG	ADJ. TO EQUIP.	Q										CFS-1
CU-1		CONDESNING UNIT			22		208	1	60	2 #10, #10 GR 0.75" CND	E	30A/2P CB	PANEL	E	30A/2P FRN-	ADJ. TO EQUIP.	Q										CU-1
CU-2		CONDESNING UNIT			22		208	1	60	2 #10, #10 GR 0.75" CND	E	30A/2P CB	PANEL	E	30A/2P FRN-	ADJ. TO EQUIP.	Q										CU-2
CU-3		CONDESNING UNIT			22		208	1	60	2 #10, #10 GR 0.75" CND	E	30A/2P CB	PANEL	E	30A/2P FRN-	ADJ. TO EQUIP.	Q										CU-3
CU-4		CONDESNING UNIT			22		208	1	60	2 #10, #10 GR 0.75" CND	E	30A/2P CB	PANEL	E	30A/2P FRN-	ADJ. TO EQUIP.	Q										CU-4
CU-5		CONDESNING UNIT			22		208	1	60	2 #10, #10 GR 0.75" CND	E	30A/2P CB	PANEL	E	30A/2P FRN-	ADJ. TO EQUIP.	Q										CU-5
CU-6		CONDESNING UNIT			22		208	1	60	2 #10, #10 GR 0.75" CND	E	30A/2P CB	PANEL	E	30A/2P FRN-	ADJ. TO EQUIP.	Q										CU-6
CUH-1		CABINET UNIT HEATER	1/40			0.55	120	1	60	2 #12, #12 GR 0.75" CND	E	15A/1P CB	PANEL	E	THERMAL SWITCH	ADJ. TO EQUIP.	Q										CUH-1
CUH-2		CABINET UNIT HEATER	1/40			0.55	120	1	60	2 #12, #12 GR 0.75" CND	E	15A/1P CB	PANEL	E	THERMAL SWITCH	ADJ. TO EQUIP.	Q										CUH-2
ECSP-1	2	EVAP COOLER SUMP PUMP	1/3			7.2	120	1	60	2 #12, #12 GR 0.75" CND	E	15A/1P CB	PANEL	E	THERMAL SWITCH	ADJ. TO EQUIP.	Q										ECSP-1
ECSP-2	3	EVAP COOLER SUMP PUMP	1/10				120	1	60	2 #12, #12 GR 0.75" CND	E	15A/1P CB	PANEL	E	THERMAL SWITCH	ADJ. TO EQUIP.											ECSP-2
EF-1		EXHAUST FAN	1/4			5.8	120	1	60	2 #12, #12 GR 0.75" CND	E	15A/1P CB	PANEL	E	THERMAL SWITCH	ADJ. TO EQUIP.	E	RELAY	ADJ. TO EQUIP.								EF-1
EF-2		EXHAUST FAN	1/30				120	1	60	2 #12, #12 GR 0.75" CND	E	15A/1P CB	PANEL	E	THERMAL SWITCH	ADJ. TO EQUIP.	E	RELAY	ADJ. TO EQUIP.								EF-2
EF-3		EXHAUST FAN	3/4			1.6	480	3	60	3 #12, #12 GR 0.75" CND	E	15A/3P CB	PANEL	E	30A/3P FRS-2	ADJ. TO EQUIP.	E	FVNR	ADJ. TO EQUIP.	1	HOA	R,G	2	2			EF-3
EF-4		EXHAUST FAN	1/4			5.8	120	1	60	2 #12, #12 GR 0.75" CND	E	15A/1P CB	PANEL	E	THERMAL SWITCH	ADJ. TO EQUIP.	E	RELAY	ADJ. TO EQUIP.								EF-4
EF-5		EXHAUST FAN	1/2			9.8	120	1	60	2 #12, #12 GR 0.75" CND	E	20A/1P CB	PANEL	E	THERMAL SWITCH	ADJ. TO EQUIP.	E	RELAY	ADJ. TO EQUIP.								EF-5
EF-6		EXHAUST FAN	2			3.4	480	3	60	3 #12, #12 GR 0.75" CND	E	15A/3P CB	MCCA	E	30A/3P FRS-5	ADJ. TO EQUIP.	E	FVNR	MCCA	1	HOA	R,G	2	2			EF-6
EF-7		EXHAUST FAN	2			3.4	480	3	60	3 #12, #12 GR 0.75" CND	E	15A/3P CB	MCCA	E	30A/3P FRS-5	ADJ. TO EQUIP	E	FVNR	MCCA	1	HOA	R,G	2	2			EF-7
EF-8		EXHAUST FAN	5			7.6	480	3	60	3 #12, #12 GR 0.75" CND	E	15A/3P CB	MCCA	E	30A/3P FRS-10	ADJ. TO EQUIP.	E	FVNR	MCCA	1	HOA	R,G	2	2			EF-8
EF-9		EXHAUST FAN	5			7.6	480	3	60	3 #12, #12 GR 0.75" CND	E	15A/3P CB	MCCA	E	30A/3P FRS-10	ADJ. TO EQUIP.	E	FVNR	MCCA	1	HOA	R,G	2	2			EF-9
EF-10		EXHAUST FAN	5			7.6	480	3	60	3 #12, #12 GR 0.75" CND	E	15A/3P CB	MCCA	E	30A/3P FRS-10	ADJ. TO EQUIP	E	FVNR	MCCA	1	HOA	R,G	2	2			EF-10
EF-11		EXHAUST FAN	2			3.4	480	3	60	3 #12, #12 GR 0.75" CND	E	15A/3P CB	MCCA	E	30A/3P FRS-5	ADJ. TO EQUIP.	E	FVNR	MCCA	1	HOA	R,G	2	2			EF-11
EF-12		EXHAUST FAN	3			4.8	480	3	60	3 #12, #12 GR 0.75" CND	E	15A/3P CB	MCCA	E	30A/3P FRS-10	ADJ. TO EQUIP.	E	FVNR	MCCA	1	HOA	R,G	2	2			EF-12
EF-13		EXHAUST FAN	1/4			5.8	120	1	60	2 #12, #12 GR 0.75" CND	E	15A/1P CB	PANEL	E	THERMAL SWITCH	ADJ. TO EQUIP.	E	RELAY	ADJ. TO EQUIP.								EF-13
EF-14		EXHAUST FAN	1/2			9.8	120	1	60	2 #12, #12 GR 0.75" CND	E	20A/1P CB	PANEL	E	THERMAL SWITCH	ADJ. TO EQUIP.	E	RELAY	ADJ. TO EQUIP.								EF-14
EF-15		EXHAUST FAN	1/2			9.8	120	1	60	2 #12, #12 GR 0.75" CND	E	20A/1P CB	PANEL	E	THERMAL SWITCH	ADJ. TO EQUIP.	E	RELAY	ADJ. TO EQUIP.								EF-15
ERV-1		ENERGY RECOVERY UNIT			27		480	3	60	3 #8, #10 GR 1" CND	E	40A/3P CB		E	60A/3P FRS-	ADJ. TO EQUIP.	Q										ERV-1
ERV-2		ENERGY RECOVERY UNIT			27		480	3	60	3 #6, #10 GR 1" CND	E	40A/3P CB		E	60A/3P FRS-	ADJ. TO EQUIP.	Q										ERV-2

NOTES:
1. PROVIDE 120V CONTROL CIRCUIT TO EQUIPMENT.
2. SEE DETAIL 1/EE501 FOR RELAY CONTROL REQUIRMENTS.
3. AIR HANDLER AH-5 IS FUTURE. PROVIDE CONDUIT ONLY TO FUTURE LOCATION AS SHOWN ON DRAWINGS.
4. AH-1 RETURN FAN IS (18) 1.5 HP FANS. PROVIDE (1) VFD TO CONTROL ALL FANS AS A GROUP. PROVIDE INDIVIDUAL OVERLOAD PROTECTION FOR EACH MOTOR.
5. AH-1 SUPPLY FAN IS (12) 4 HP FANS. PROVIDE (1) VFD TO CONTROL ALL FANS AS A GROUP. PROVIDE INDIVIDUAL OVERLOAD PROTECTION FOR EACH MOTOR.
6. PROVIDE SHUNT TRIP BREAKER AND EMERGENCY OFF BUTTON AT EACH BOILER ROOM EXIT.

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REGISTERED PROFESSIONAL ENGINEER No. 7162 STATE OF UTAH
01/18/2012

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project:
TOOELE APPLIED TECHNOLOGY COLLEGE - NEW BUILDING

88 South Tooele Blvd
Tooele, UT 84074

project#: 11.0420
date: 1/20/11

revisions :

Equipment Schedule

sheet:

EP603

100% Construction Documents

EQUIPMENT SCHEDULE

MARK	QTY	ITEM DESCRIPTION	LOAD DATA							WIRE AND CONDUIT SIZE	OVERCURRENT PROTECTION			DISCONNECT			STARTER DATA									NOTES	MARK
			HP	kW	MCA	FLA	VOLT	PH	Hz		FURN BY	DEVICE	LOCATION	FURN BY	DEVICE	LOCATION	FURN BY	DEVICE	LOCATION	SIZE	SELECTOR SWITCH	PILOT LAMP	NORMALLY OPEN CONTACTS	NORMALLY CLOSED CONTACTS	PHASE FAILURE RELAY		
FC-1		FAN COIL UNIT	1/4			5.8	120	1	60	2 #12, #12 GR 0.75" CND	E	15A/1P CB	PANEL	E	THERMAL SWITCH	ADJ. TO EQUIP.	Q										FC-1
FC-2		FAN COIL UNIT	1/4			5.8	120	1	60	2 #12, #12 GR 0.75" CND	E	15A/1P CB	PANEL	E	THERMAL SWITCH	ADJ. TO EQUIP.	Q										FC-2
GDC-1		GRINDING DUST COLLECTOR					480	3	60	3 #12, #12 GR 0.75" CND	E	20A/3P CB	PANEL	E	30A/3P FRS-	ADJ. TO EQUIP.	Q									NOTE 1	GDC-1
HP-1A		VRV CONDENSING UNIT		11.1	21		480	3	60	3 #10, #10 GR 0.75" CND	E	30A/3P CB	PANEL	E	30A/3P FRS-25	ADJ. TO EQUIP.	Q										HP-1A
HP-1B		VRV CONDENSING UNIT		11.7	21		480	3	60	3 #10, #10 GR 0.75" CND	E	30A/3P CB	PANEL	E	30A/3P FRS-30	ADJ. TO EQUIP.	Q										HP-1B
HP-1C		VRV CONDENSING UNIT		11.7	21		480	3	60	3 #10, #10 GR 0.75" CND	E	30A/3P CB	PANEL	E	30A/3P FRS-30	ADJ. TO EQUIP.	Q										HP-1C
HP-2A		VRV CONDENSING UNIT		11.1	21		480	3	60	3 #10, #10 GR 0.75" CND	E	30A/3P CB	PANEL	E	30A/3P FRS-25	ADJ. TO EQUIP.	Q										HP-2A
HP-2B		VRV CONDENSING UNIT		11.1	21		480	3	60	3 #10, #10 GR 0.75" CND	E	30A/3P CB	PANEL	E	30A/3P FRS-25	ADJ. TO EQUIP.	Q										HP-2B
HP-3A		VRV CONDENSING UNIT		11.1	21		480	3	60	3 #10, #10 GR 0.75" CND	E	30A/3P CB	PANEL	E	30A/3P FRS-25	ADJ. TO EQUIP.	Q										HP-3A
HP-3B		VRV CONDENSING UNIT		11.1	21		480	3	60	3 #10, #10 GR 0.75" CND	E	30A/3P CB	PANEL	E	30A/3P FRS-25	ADJ. TO EQUIP.	Q										HP-3B
IH-1		INFRARED HEATER			4.8		120	1	60	2 #12, #12 GR 0.75" CND	E	20A/1P CB	PANEL	E	THERMAL SWITCH	ADJ. TO EQUIP.	Q										IH-1
IH-2		INFRARED HEATER			4.8		120	1	60	2 #12, #12 GR 0.75" CND	E	20A/1P CB	PANEL	E	THERMAL SWITCH	ADJ. TO EQUIP.	Q										IH-2
IH-3		INFRARED HEATER			4.8		120	1	60	2 #12, #12 GR 0.75" CND	E	20A/1P CB	PANEL	E	THERMAL SWITCH	ADJ. TO EQUIP.	Q										IH-3
IH-4		INFRARED HEATER			4.8		120	1	60	2 #12, #12 GR 0.75" CND	E	20A/1P CB	PANEL	E	THERMAL SWITCH	ADJ. TO EQUIP.	Q										IH-4
IH-5		INFRARED HEATER			4.8		120	1	60	2 #12, #12 GR 0.75" CND	E	20A/1P CB	PANEL	E	THERMAL SWITCH	ADJ. TO EQUIP.	Q										IH-5
IH-6		INFRARED HEATER			4.8		120	1	60	2 #12, #12 GR 0.75" CND	E	20A/1P CB	PANEL	E	THERMAL SWITCH	ADJ. TO EQUIP.	Q										IH-6
IH-7		INFRARED HEATER			4.8		120	1	60	2 #12, #12 GR 0.75" CND	E	20A/1P CB	PANEL	E	THERMAL SWITCH	ADJ. TO EQUIP.	Q										IH-7
IH-8		INFRARED HEATER			4.8		120	1	60	2 #12, #12 GR 0.75" CND	E	20A/1P CB	PANEL	E	THERMAL SWITCH	ADJ. TO EQUIP.	Q										IH-8
IH-9		INFRARED HEATER			4.8		120	1	60	2 #12, #12 GR 0.75" CND	E	20A/1P CB	PANEL	E	THERMAL SWITCH	ADJ. TO EQUIP.	Q										IH-9
MAU-1		MAKE UP AIR UNIT	1/2			1.1	480	3	60	3 #12, #12 GR 0.75" CND	E	15A/3P CB	PANEL	E	30A/3P FRS-1 1/2	ADJ. TO EQUIP.	E	FVNR	ADJ. TO EQUIP.	0	HOA	R,G	2	2			MAU-1
MAU-2		MAKE UP AIR UNIT	3			4.8	480	3	60	3 #12, #12 GR 0.75" CND	E	15A/3P CB	PANEL	E	30A/3P FRS-10	ADJ. TO EQUIP.	E	FVNR	ADJ. TO EQUIP.	0	HOA	R,G	2	2			MAU-2
MAU-3		MAKE UP AIR UNIT	1			2.1	480	3	60	3 #12, #12 GR 0.75" CND	E	15A/3P CB	PANEL	E	30A/3P FRS-3	ADJ. TO EQUIP.	E	FVNR	ADJ. TO EQUIP.	0	HOA	R,G	2	2			MAU-3
P-1		HEATING WATER PUMP	15			21	480	3	60	3 #8, #10 GR 1" CND	E	40A/3P CB	MCCA	E	VFD	ADJ. TO EQUIP.	E	VFD	ADJ. TO EQUIP.								P-1
P-2		HEATING WATER PUMP	15			21	480	3	60	3 #8, #10 GR 1" CND	E	40A/3P CB	MCCA	E	VFD	ADJ. TO EQUIP.	E	VFD	ADJ. TO EQUIP.								P-2
P-3		GLYCOL LOOP PUMP	10			14	480	3	60	3 #10, #10 GR 0.75" CND	E	30A/3P CB	MCCA	E	VFD	ADJ. TO EQUIP.	E	VFD	ADJ. TO EQUIP.								P-3
P-4		GLYCOL LOOP PUMP	10			14	480	3	60	3 #10, #10 GR 0.75" CND	E	30A/3P CB	MCCA	E	VFD	ADJ. TO EQUIP.	E	VFD	ADJ. TO EQUIP.								P-4
P-5		COIL CIRC PUMP	1/2			9.8	120	1	60	2 #12, #12 GR 0.75" CND	E	20A/1P CB	PANEL	E	THERMAL SWITCH	ADJ. TO EQUIP.	E	RELAY	ADJ. TO EQUIP.							NOTE 2	P-5
P-6		COIL CIRC PUMP	1/2			9.8	120	1	60	2 #12, #12 GR 0.75" CND	E	20A/1P CB	PANEL	E	THERMAL SWITCH	ADJ. TO EQUIP.	E	RELAY	ADJ. TO EQUIP.							NOTE 2	P-6
P-7		COIL CIRC PUMP	1/2			9.8	120	1	60	2 #12, #12 GR 0.75" CND	E	20A/1P CB	PANEL	E	THERMAL SWITCH	ADJ. TO EQUIP.	E	RELAY	ADJ. TO EQUIP.							NOTE 2	P-7
P-8		COIL CIRC PUMP	1/2			9.8	120	1	60	2 #12, #12 GR 0.75" CND	E	20A/1P CB	PANEL	E	THERMAL SWITCH	ADJ. TO EQUIP.	E	RELAY	ADJ. TO EQUIP.							NOTE 2	P-8
PAC	3	PORTABLE AIR CLEANER	1.5			3	480	3	60	3 #12, #12 GR 0.75" CND	E	15A/3P CB	PANEL	E	CORD & PLUG	SEE PLANS	Q										PAC
RCP-1		DOMESTIC RECIRC PUMP	1/2			9.8	120	1	60	2 #12, #12 GR 0.75" CND	E	20A/1P CB	PANEL	E	THERMAL SWITCH	ADJ. TO EQUIP.	E	RELAY	ADJ. TO EQUIP.							NOTE 2	RCP-1
RCP-2		DOMESTIC RECIRC PUMP	1/6			4.4	120	1	60	2 #12, #12 GR 0.75" CND	E	15A/1P CB	PANEL	E	THERMAL SWITCH	ADJ. TO EQUIP.	E	RELAY	ADJ. TO EQUIP.							NOTE 2	RCP-2
RCP-3		SOLAR WATER HEATER GLYCOL PUMP	1/6			4.4	120	1	60	2 #12, #12 GR 0.75" CND	E	15A/1P CB	PANEL	E	THERMAL SWITCH	ADJ. TO EQUIP.	E	RELAY	ADJ. TO EQUIP.							NOTE 2	RCP-3
RCP-4		SOLAR WATER HEATER GLYCOL PUMP	1/6			4.4	120	1	60	2 #12, #12 GR 0.75" CND	E	15A/1P CB	PANEL	E	THERMAL SWITCH	ADJ. TO EQUIP.	E	RELAY	ADJ. TO EQUIP.							NOTE 2	RCP-4
SDC-1		SAWDUST COLLECTOR					480	3	60	3 #6, #10 GR 1" CND	E	50A/3P CB	PANEL	E	60A/3P FRS-	ADJ. TO EQUIP.	Q									NOTE 1	SDC-1
SFS-1		SOLAR WATER CHEMICAL FEED	1/3			7.2	120	1	60	2 #12, #12 GR 0.75" CND	E	20A/1P CB	PANEL	E	THERMAL SWITCH	ADJ. TO EQUIP.	Q										SFS-1
TSR-1		TUBING STORAGE REEL	1/6			4.4	120	1	60	2 #12, #12 GR 0.75" CND	E	15A/1P CB	PANEL	E	THERMAL SWITCH	ADJ. TO EQUIP.	Q										TSR-1
TSR-2		TUBING STORAGE REEL	1/6			4.4	120	1	60	2 #12, #12 GR 0.75" CND	E	15A/1P CB	PANEL	E	THERMAL SWITCH	ADJ. TO EQUIP.	Q										TSR-2
TSR-3		TUBING STORAGE REEL	1/6			4.4	120	1	60	2 #12, #12 GR 0.75" CND	E	15A/1P CB	PANEL	E	THERMAL SWITCH	ADJ. TO EQUIP.	Q										TSR-3
TSR-4		TUBING STORAGE REEL	1/6			4.4	120	1	60	2 #12, #12 GR 0.75" CND	E	15A/1P CB	PANEL	E	THERMAL SWITCH	ADJ. TO EQUIP.	Q										TSR-4

NOTES:
1. PROVIDE 120V CONTROL CIRCUIT TO EQUIPMENT.
2. SEE DETAIL 1/EE501 FOR RELAY CONTROL REQUIRMENTS.
3. AIR HANDLER AH-5 IS FUTURE. PROVIDE CONDUIT ONLY TO FUTURE LOCATION AS SHOWN ON DRAWINGS.
4. AH-1 RETURN FAN IS (18) 1.5 HP FANS. PROVIDE (1) VFD TO CONTROL ALL FANS AS A GROUP. PROVIDE INDIVIDUAL OVERLOAD PROTECTION FOR EACH MOTOR.
5. AH-1 SUPPLY FAN IS (12) 4 HP FANS. PROVIDE (1) VFD TO CONTROL ALL FANS AS A GROUP. PROVIDE INDIVIDUAL OVERLOAD PROTECTION FOR EACH MOTOR.
6. PROVIDE SHUNT TRIP BREAKER AND EMERGENCY OFF BUTTON AT EACH BOILER ROOM EXIT.

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project:
TOOELE APPLIED TECHNOLOGY COLLEGE - NEW BUILDING

88 South Tooele Blvd
Tooele, UT 84074

project#: 11.0420
date: 1/20/11

revisions :

Equipment Schedule

sheet:

EP604

100% Construction Documents

EQUIPMENT SCHEDULE

MARK	QTY	ITEM DESCRIPTION	LOAD DATA							WIRE AND CONDUIT SIZE	OVERCURRENT PROTECTION			DISCONNECT			STARTER DATA									NOTES	MARK
			HP	kW	MCA	FLA	VOLT	PH	Hz		FURN BY	DEVICE	LOCATION	FURN BY	DEVICE	LOCATION	FURN BY	DEVICE	LOCATION	SIZE	SELECTOR SWITCH	PILOT LAMP	NORMALLY OPEN CONTACTS	NORMALLY CLOSED CONTACTS	PHASE FAILURE RELAY		
UH-1		UNIT HEATER	1/10			1.3	120	1	60	2 #12, #12 GR 0.75" CND	E	15A/1P CB	PANEL	E	THERMAL SWITCH	ADJ. TO EQUIP.	Q										UH-1
UH-2		UNIT HEATER	1/10			1.3	120	1	60	2 #12, #12 GR 0.75" CND	E	15A/1P CB	PANEL	E	THERMAL SWITCH	ADJ. TO EQUIP.	Q										UH-2
VF-1		VENTILATION FAN	1/3			7.2	120	1	60	2 #12, #12 GR 0.75" CND	E	15A/1P CB	PANEL	E	THERMAL SWITCH	ADJ. TO EQUIP.	E	RELAY								NOTE 2	VF-1
VRV-1A		VARIABLE REFRIG VOLUME			.5		208	1	60	2 #12, #12 GR 0.75" CND	E	15A/2P CB	PANEL	E	THERMAL SWITCH	ADJ. TO EQUIP.	Q										VRV-1A
VRV-1B		VARIABLE REFRIG VOLUME			.5		208	1	60	2 #12, #12 GR 0.75" CND	E	15A/2P CB	PANEL	E	THERMAL SWITCH	ADJ. TO EQUIP.	Q										VRV-1B
VRV-2A		VARIABLE REFRIG VOLUME			1.5		208	1	60	2 #12, #12 GR 0.75" CND	E	15A/2P CB	PANEL	E	THERMAL SWITCH	ADJ. TO EQUIP.	Q										VRV-2A
VRV-2B		VARIABLE REFRIG VOLUME			.5		208	1	60	2 #12, #12 GR 0.75" CND	E	15A/2P CB	PANEL	E	THERMAL SWITCH	ADJ. TO EQUIP.	Q										VRV-2B
VRV-3		VARIABLE REFRIG VOLUME			.8		208	1	60	2 #12, #12 GR 0.75" CND	E	15A/2P CB	PANEL	E	THERMAL SWITCH	ADJ. TO EQUIP.	Q										VRV-3
VRV-4		VARIABLE REFRIG VOLUME			.8		208	1	60	2 #12, #12 GR 0.75" CND	E	15A/2P CB	PANEL	E	THERMAL SWITCH	ADJ. TO EQUIP.	Q										VRV-4
VRV-5		VARIABLE REFRIG VOLUME			.8		208	1	60	2 #12, #12 GR 0.75" CND	E	15A/2P CB	PANEL	E	THERMAL SWITCH	ADJ. TO EQUIP.	Q										VRV-5
VRV-6		VARIABLE REFRIG VOLUME			1.4		208	1	60	2 #12, #12 GR 0.75" CND	E	15A/2P CB	PANEL	E	THERMAL SWITCH	ADJ. TO EQUIP.	Q										VRV-6
VRV-7		VARIABLE REFRIG VOLUME			.8		208	1	60	2 #12, #12 GR 0.75" CND	E	15A/2P CB	PANEL	E	THERMAL SWITCH	ADJ. TO EQUIP.	Q										VRV-7
VRV-8		VARIABLE REFRIG VOLUME			.8		208	1	60	2 #12, #12 GR 0.75" CND	E	15A/2P CB	PANEL	E	THERMAL SWITCH	ADJ. TO EQUIP.	Q										VRV-8
VRV-9		VARIABLE REFRIG VOLUME			1.4		208	1	60	2 #12, #12 GR 0.75" CND	E	15A/2P CB	PANEL	E	THERMAL SWITCH	ADJ. TO EQUIP.	Q										VRV-9
VRV-10		VARIABLE REFRIG VOLUME			.8		208	1	60	2 #12, #12 GR 0.75" CND	E	15A/2P CB	PANEL	E	THERMAL SWITCH	ADJ. TO EQUIP.	Q										VRV-10
VRV-11		VARIABLE REFRIG VOLUME			.8		208	1	60	2 #12, #12 GR 0.75" CND	E	15A/2P CB	PANEL	E	THERMAL SWITCH	ADJ. TO EQUIP.	Q										VRV-11
VRV-12		VARIABLE REFRIG VOLUME			.8		208	1	60	2 #12, #12 GR 0.75" CND	E	15A/2P CB	PANEL	E	THERMAL SWITCH	ADJ. TO EQUIP.	Q										VRV-12
VRV-13		VARIABLE REFRIG VOLUME			.5		208	1	60	2 #12, #12 GR 0.75" CND	E	15A/2P CB	PANEL	E	THERMAL SWITCH	ADJ. TO EQUIP.	Q										VRV-13
VRV-14		VARIABLE REFRIG VOLUME			.3		208	1	60	2 #12, #12 GR 0.75" CND	E	15A/2P CB	PANEL	E	THERMAL SWITCH	ADJ. TO EQUIP.	Q										VRV-14
VRV-15		VARIABLE REFRIG VOLUME			.5		208	1	60	2 #12, #12 GR 0.75" CND	E	15A/2P CB	PANEL	E	THERMAL SWITCH	ADJ. TO EQUIP.	Q										VRV-15
VRV-16		VARIABLE REFRIG VOLUME			.5		208	1	60	2 #12, #12 GR 0.75" CND	E	15A/2P CB	PANEL	E	THERMAL SWITCH	ADJ. TO EQUIP.	Q										VRV-16
VRV-17		VARIABLE REFRIG VOLUME			.5		208	1	60	2 #12, #12 GR 0.75" CND	E	15A/2P CB	PANEL	E	THERMAL SWITCH	ADJ. TO EQUIP.	Q										VRV-17
VRV-17A		VARIABLE REFRIG VOLUME			.5		208	1	60	2 #12, #12 GR 0.75" CND	E	15A/2P CB	PANEL	E	THERMAL SWITCH	ADJ. TO EQUIP.	Q										VRV-17A
VRV-18		VARIABLE REFRIG VOLUME			.8		208	1	60	2 #12, #12 GR 0.75" CND	E	15A/2P CB	PANEL	E	THERMAL SWITCH	ADJ. TO EQUIP.	Q										VRV-18
VRV-19		VARIABLE REFRIG VOLUME			.6		208	1	60	2 #12, #12 GR 0.75" CND	E	15A/2P CB	PANEL	E	THERMAL SWITCH	ADJ. TO EQUIP.	Q										VRV-19
VRV-20		VARIABLE REFRIG VOLUME			.4		208	1	60	2 #12, #12 GR 0.75" CND	E	15A/2P CB	PANEL	E	THERMAL SWITCH	ADJ. TO EQUIP.	Q										VRV-20
VRV-21		VARIABLE REFRIG VOLUME			.8		208	1	60	2 #12, #12 GR 0.75" CND	E	15A/2P CB	PANEL	E	THERMAL SWITCH	ADJ. TO EQUIP.	Q										VRV-21
VRV-22		VARIABLE REFRIG VOLUME			1		208	1	60	2 #12, #12 GR 0.75" CND	E	15A/2P CB	PANEL	E	THERMAL SWITCH	ADJ. TO EQUIP.	Q										VRV-22
VRV-23		VARIABLE REFRIG VOLUME			.6		208	1	60	2 #12, #12 GR 0.75" CND	E	15A/2P CB	PANEL	E	THERMAL SWITCH	ADJ. TO EQUIP.	Q										VRV-23
VRV-24		VARIABLE REFRIG VOLUME			.4		208	1	60	2 #12, #12 GR 0.75" CND	E	15A/2P CB	PANEL	E	THERMAL SWITCH	ADJ. TO EQUIP.	Q										VRV-24
VRV-25		VARIABLE REFRIG VOLUME			.4		208	1	60	2 #12, #12 GR 0.75" CND	E	15A/2P CB	PANEL	E	THERMAL SWITCH	ADJ. TO EQUIP.	Q										VRV-25
VRV-26		VARIABLE REFRIG VOLUME			.6		208	1	60	2 #12, #12 GR 0.75" CND	E	15A/2P CB	PANEL	E	THERMAL SWITCH	ADJ. TO EQUIP.	Q										VRV-26
VRV-27		VARIABLE REFRIG VOLUME			.5		208	1	60	2 #12, #12 GR 0.75" CND	E	15A/2P CB	PANEL	E	THERMAL SWITCH	ADJ. TO EQUIP.	Q										VRV-27
VRV-28		VARIABLE REFRIG VOLUME			.8		208	1	60	2 #12, #12 GR 0.75" CND	E	15A/2P CB	PANEL	E	THERMAL SWITCH	ADJ. TO EQUIP.	Q										VRV-28
VRV-29		VARIABLE REFRIG VOLUME			.6		208	1	60	2 #12, #12 GR 0.75" CND	E	15A/2P CB	PANEL	E	THERMAL SWITCH	ADJ. TO EQUIP.	Q										VRV-29
VRV-30		VARIABLE REFRIG VOLUME			.6		208	1	60	2 #12, #12 GR 0.75" CND	E	15A/2P CB	PANEL	E	THERMAL SWITCH	ADJ. TO EQUIP.	Q										VRV-30
VRV-31		VARIABLE REFRIG VOLUME			.4		208	1	60	2 #12, #12 GR 0.75" CND	E	15A/2P CB	PANEL	E	THERMAL SWITCH	ADJ. TO EQUIP.	Q										VRV-31
VRV-32		VARIABLE REFRIG VOLUME			.6		208	1	60	2 #12, #12 GR 0.75" CND	E	15A/2P CB	PANEL	E	THERMAL SWITCH	ADJ. TO EQUIP.	Q										VRV-32
VRV-33		VARIABLE REFRIG VOLUME			.6		208	1	60	2 #12, #12 GR 0.75" CND	E	15A/2P CB	PANEL	E	THERMAL SWITCH	ADJ. TO EQUIP.	Q										VRV-33
VRV-34		VARIABLE REFRIG VOLUME			.8		208	1	60	2 #12, #12 GR 0.75" CND	E	15A/2P CB	PANEL	E	THERMAL SWITCH	ADJ. TO EQUIP.	Q										VRV-34
VRV-35A		VARIABLE REFRIG VOLUME			3.4		208	1	60	2 #12, #12 GR 0.75" CND	E	15A/2P CB	PANEL	E	THERMAL SWITCH	ADJ. TO EQUIP.	Q										VRV-35A
VRV-35B		VARIABLE REFRIG VOLUME			3.4		208	1	60	2 #12, #12 GR 0.75" CND	E	15A/2P CB	PANEL	E	THERMAL SWITCH	ADJ. TO EQUIP.	Q										VRV-35B
VRV-36		VARIABLE REFRIG VOLUME			.3		208	1	60	2 #12, #12 GR 0.75" CND	E	15A/2P CB	PANEL	E	THERMAL SWITCH	ADJ. TO EQUIP.	Q										VRV-36
WH-1		WATER HEATER				15	120	1	60	2 #12, #12 GR 0.75" CND	E	20A/1P CB	PANEL	E	THERMAL SWITCH	ADJ. TO EQUIP.											WH-1
WH-2		WATER HEATER				15	120	1	60	2 #12, #12 GR 0.75" CND	E	20A/1P CB	PANEL	E	THERMAL SWITCH	ADJ. TO EQUIP.											WH-2
WH-3		WATER HEATER				15	120	1	60	2 #12, #12 GR 0.75" CND	E	20A/1P CB	PANEL	E	THERMAL SWITCH	ADJ. TO EQUIP.											WH-3
WS-1		WATER SOFTENER					120	1	60	2 #12, #12 GR 0.75" CND	E	20A/1P CB	PANEL	E	THERMAL SWITCH	ADJ. TO EQUIP.											WS-1
									60		E			E													

NOTES:
1. PROVIDE 120V CONTROL CIRCUIT TO EQUIPMENT.
2. SEE DETAIL 1/EE501 FOR RELAY CONTROL REQUIRMENTS.
3. AIR HANDLER AH-5 IS FUTURE. PROVIDE CONDUIT ONLY TO FUTURE LOCATION AS SHOWN ON DRAWINGS.
4. AH-1 RETURN FAN IS (18) 1.5 HP FANS. PROVIDE (1) VFD TO CONTROL ALL FANS AS A GROUP. PROVIDE INDIVIDUAL OVERLOAD PROTECTION FOR EACH MOTOR.
5. AH-1 SUPPLY FAN IS (12) 4 HP FANS. PROVIDE (1) VFD TO CONTROL ALL FANS AS A GROUP. PROVIDE INDIVIDUAL OVERLOAD PROTECTION FOR EACH MOTOR.
6. PROVIDE SHUNT TRIP BREAKER AND EMERGENCY OFF BUTTON AT EACH BOILER ROOM EXIT.

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project:
TOOELE APPLIED TECHNOLOGY COLLEGE - NEW BUILDING

88 South Tooele Blvd
Tooele, UT 84074

project#: 11.0420
date: 1/20/11

revisions :

Equipment Schedule

sheet:

EP605

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PANEL "1EHA"

VOLTS/PHASE/WIRE:	PANEL SIZE & TYPE:	MAIN SIZE AND TYPE:	LOCATION:	CABINET:	NOTES:
480/277 V, 3 PH 4 WIRE	22" W x 6" D, BOLT-ON	100 AMPERE MAIN LUGS	MAIN ELECTRICAL C109	SURFACE	

ACCESSORIES: PANEL DIRECTORY, IDENTIFICATION, GROUNDING BAR

CKT NO	AMP	POLE	DESCRIPTION	A		B		C		DESCRIPTION	POLE	AMP	CKT NO
1	100	3	ELEV. EQ. B117	7.0	1.9					PANEL "1ELA"	3	30	2
3	--	--	--			7.0	1.4			--	--	--	4
5	--	--	--					7.0	0.6	--	--	--	6
7	20	1	SPARE	0.0	0.0					SPARE	1	20	8
9	20	1	SPARE			0.0	0.0			SPARE	1	20	10
11	20	1	SPARE					0.0	0.0	SPARE	1	20	12
13	20	1	SPARE	0.0	0.0					SPARE	1	20	14
15	20	1	SPARE			0.0	0.0			SPARE	1	20	16
17	20	1	SPARE					0.0	0.0	SPARE	1	20	18
19	20	1	SPARE	0.0	0.0					SPARE	1	20	20
21	20	1	SPARE			0.0	0.0			SPARE	1	20	22
23	20	1	SPARE					0.0	0.0	SPARE	1	20	24
25	20	1	SPARE	0.0	0.0					SPARE	1	20	26
27	20	1	SPARE			0.0	0.0			SPARE	1	20	28
29	20	1	SPARE					0.0	0.0	SPARE	1	20	30
31	20	1	SPARE	0.0	0.0					SPARE	1	20	32
33	20	1	SPARE			0.0	0.0			SPARE	1	20	34
35	20	1	SPARE					0.0	0.0	SPARE	1	20	36
37	20	1	SPARE	0.0	0.0					SPARE	1	20	38
39	20	1	SPARE			0.0	0.0			SPARE	1	20	40
41	20	1	SPARE					0.0	0.0	SPARE	1	20	42

TOTALS: CONNECTED kVA PER PHASE **9** **8** **8** — CONNECTED TOTAL kVA **25**
CONNECTED AMPS PER PHASE **32** **31** **27** — CONNECTED AVERAGE AMPS PER PHASE **30**

NEC DIVERSIFIED LOAD CALCULATIONS

LIGHTING — ALL OTHER LOADS @100%= **22.0 kVA** — DIVERSIFIED TOTAL kVA **23**
RECEPTACLES **1 kVA @100% =1 kVA** — TOTAL MOTOR DEMAND= — AVERAGE AMPS PER **28**

Notes:

PANEL "1HA2"

VOLTS/PHASE/WIRE:	PANEL SIZE & TYPE:	MAIN SIZE AND TYPE:	LOCATION:	CABINET:	NOTES:
480/277 V, 3 PH 4 WIRE	22" W x 6" D, BOLT-ON	225 AMPERE MAIN LUGS	MAIN ELECTRICAL C109	SURFACE	

ACCESSORIES: PANEL DIRECTORY, IDENTIFICATION, GROUNDING BAR

CKT NO	AMP	POLE	DESCRIPTION	A		B		C		DESCRIPTION	POLE	AMP	CKT NO
1	30	3	PWR	5.0	5.0					PWR: DROP CORD	3	30	2
3	--	--	--			5.0	5.0			--	--	--	4
5	--	--	--					5.0	5.0	--	--	--	6
7	30	3	PWR: DROP CORD	5.0	8.3					MTR: LIFT CE & R LAB C121	3	50	8
9	--	--	--			5.0	8.3			--	--	--	10
11	--	--	--					5.0	8.3	--	--	--	12
13	30	3	PWR CE & R LAB C121	5.0	5.0					PWR	3	30	14
15	--	--	--			5.0	5.0			--	--	--	16
17	--	--	--					5.0	5.0	--	--	--	18
19	30	3	PWR	5.0	0.0					SPARE	1	20	20
21	--	--	--			5.0	0.0			SPARE	1	20	22
23	--	--	--					5.0	0.0	SPARE	1	20	24
25	20	1	SPARE	0.0	0.0					SPARE	1	20	26
27	20	1	SPARE			0.0	0.0			SPARE	1	20	28
29	20	1	SPARE					0.0	0.0	SPARE	1	20	30
31	20	1	SPARE	0.0	0.0					SPARE	1	20	32
33	20	1	SPARE			0.0	0.0			SPARE	1	20	34
35	20	1	SPARE					0.0	0.0	SPARE	1	20	36
37	20	1	SPARE	0.0	0.0					SPARE	1	20	38
39	20	1	SPARE			0.0	0.0			SPARE	1	20	40
41	20	1	SPARE					0.0	0.0	SPARE	1	20	42

TOTALS: CONNECTED kVA PER PHASE **38** **38** **38** — CONNECTED TOTAL kVA **115**
CONNECTED AMPS PER PHASE **138** **138** **138** — CONNECTED AVERAGE AMPS PER PHASE **138**

NEC DIVERSIFIED LOAD CALCULATIONS

LIGHTING — ALL OTHER LOADS @100%= **90.0 kVA** — DIVERSIFIED TOTAL kVA **121**
RECEPTACLES — TOTAL MOTOR DEMAND= **31.3 kVA** — AVERAGE AMPS PER **146**

Notes:

PANEL "1HA4"

VOLTS/PHASE/WIRE:	PANEL SIZE & TYPE:	MAIN SIZE AND TYPE:	LOCATION:	CABINET:	NOTES:
480/277 V, 3 PH 4 WIRE	22" W x 6" D, BOLT-ON	225 AMPERE MAIN LUGS	CONSTRUCTION TECHNOLOGY	SURFACE	

ACCESSORIES: PANEL DIRECTORY, IDENTIFICATION, GROUNDING BAR

CKT NO	AMP	POLE	DESCRIPTION	A		B		C		DESCRIPTION	POLE	AMP	CKT NO
1	15	3	PWR: MAU-2	1.3	6.9					PWR: SDC-1	3	50	2
3	--	--	--			1.3	6.9			--	--	--	4
5	--	--	--					1.3	6.9	--	--	--	6
7	0	1	SPARE	0.0	0.0					SPARE	1	0	8
9	0	1	SPARE			0.0	0.0			SPARE	1	0	10
11	0	1	SPARE					0.0	0.0	SPARE	1	0	12
13	0	1	SPARE	0.0	0.0					SPARE	1	0	14
15	0	1	SPARE			0.0	0.0			SPARE	1	0	16
17	0	1	SPARE					0.0	0.0	SPARE	1	0	18
19	0	1	SPARE	0.0	0.0					SPARE	1	0	20
21	0	1	SPARE			0.0	0.0			SPARE	1	0	22
23	0	1	SPARE					0.0	0.0	SPARE	1	0	24
25	0	1	SPARE	0.0	0.0					SPARE	1	0	26
27	0	1	SPARE			0.0	0.0			SPARE	1	0	28
29	0	1	SPARE					0.0	0.0	SPARE	1	0	30
31	0	1	SPARE	0.0	0.0					SPARE	1	0	32
33	0	1	SPARE			0.0	0.0			SPARE	1	0	34
35	0	1	SPARE					0.0	0.0	SPARE	1	0	36
37	0	1	SPARE	0.0	0.0					SPARE	1	0	38
39	0	1	SPARE			0.0	0.0			SPARE	1	0	40
41	0	1	SPARE					0.0	0.0	SPARE	1	0	42

TOTALS: CONNECTED kVA PER PHASE **8** **8** **8** — CONNECTED TOTAL kVA **25**
CONNECTED AMPS PER PHASE **30** **30** **30** — CONNECTED AVERAGE AMPS PER PHASE **30**

NEC DIVERSIFIED LOAD CALCULATIONS

LIGHTING — ALL OTHER LOADS @100%= **20.8 kVA** — DIVERSIFIED TOTAL kVA **26**
RECEPTACLES — TOTAL MOTOR DEMAND= **5.0 kVA** — AVERAGE AMPS PER **31**

Notes:

PANEL "1ELA"

VOLTS/PHASE/WIRE:	PANEL SIZE & TYPE:	MAIN SIZE AND TYPE:	LOCATION:	CABINET:	NOTES:
120/208V, 3 PH 4 WIRE	22" W x 6" D, BOLT-ON	100 AMPERE MAIN LUGS	MAIN ELECTRICAL C109	SURFACE	

ACCESSORIES: PANEL DIRECTORY, IDENTIFICATION, GROUNDING BAR

CKT NO	AMP	POLE	DESCRIPTION	A		B		C		DESCRIPTION	POLE	AMP	CKT NO
1	20	1	CO MAIN ELECTRICAL C109	0.2	0.0					SPARE	1	20	2
3	20	1	CO			0.2	0.0			SPARE	1	20	4
5	20	1	CO ELECTRICAL A121					0.2	0.0	SPARE	1	20	6
7	20	2	ELEV. EQ. B117	0.5	0.0					SPARE	1	20	8
9	--	--	--			0.5	0.0			SPARE	1	20	10
11	20	1	CO Room B118-1, B117					0.4	0.0	SPARE	1	20	12
13	20	1	FPS	0.5	0.0					SPARE	1	20	14
15	20	1	CO ELECTRICAL B217			0.2	0.0			SPARE	1	20	16
17	20	1	PWR FIRE RISER ROOM GONG					0.0	0.0	SPARE	1	20	18
19	20	1	FCP A121	0.5	0.0					SPARE	1	20	20
21	20	1	FPS			0.5	0.0			SPARE	1	20	22
23	20	1	SPARE					0.0	0.0	SPARE	1	20	24
25	20	1	CO FIRE RISER ROOM A130	0.2	0.0					SPARE	1	20	26
27	20	1	SPARE			0.0	0.0			SPARE	1	20	28
29	20	1	SPARE					0.0	0.0	SPARE	1	20	30
31	20	1	SPARE	0.0	0.0					SPARE	1	20	32
33	20	1	SPARE			0.0	0.0			SPARE	1	20	34
35	20	1	SPARE					0.0	0.0	SPARE	1	20	36
37	20	1	SPARE	0.0	0.0					SPARE	1	20	38
39	20	1	SPARE			0.0	0.0			SPARE	1	20	40
41	20	1	SPARE					0.0	0.0	SPARE	1	20	42

TOTALS: CONNECTED kVA PER PHASE **2** **1** **1** — CONNECTED TOTAL kVA **4**
CONNECTED AMPS PER PHASE **16** **12** **5** — CONNECTED AVERAGE AMPS PER PHASE **11**

NEC DIVERSIFIED LOAD CALCULATIONS

LIGHTING — ALL OTHER LOADS @100%= **1.0 kVA** — DIVERSIFIED TOTAL kVA **2**
RECEPTACLES **1 kVA @100% =1 kVA** — TOTAL MOTOR DEMAND= — AVERAGE AMPS PER **6**

Notes:

PANEL "1HA3"

VOLTS/PHASE/WIRE:	PANEL SIZE & TYPE:	MAIN SIZE AND TYPE:	LOCATION:	CABINET:	NOTES:
480/277 V, 3 PH 4 WIRE	22" W x 6" D, BOLT-ON	400 AMPERE MAIN LUGS	MAIN ELECTRICAL C109	SURFACE	

ACCESSORIES: PANEL DIRECTORY, IDENTIFICATION, GROUNDING BAR

CKT NO	AMP	POLE	DESCRIPTION	A		B		C		DESCRIPTION	POLE	AMP	CKT NO
1	60	3	PWR WELDING LAB-1 C107-1	10.0	10.0					PWR WELDING LAB-1 C107-1	3	60	2
3	--	--	--			10.0	10.0			--	--	--	4
5	--	--	--					10.0	10.0	--	--	--	6
7	60	3	PWR WELDING LAB-1 C107-1	10.0	5.0					PWR WELDING LAB-1 C107-1	3	30	8
9	--	--	--			10.0	5.0			--	--	--	10
11	--	--	--					10.0	5.0	--	--	--	12
13	30	3	PWR WELDING LAB-1 C107-1	5.0	5.0					PWR WELDING LAB-1 C107-1	3	30	14
15	--	--	--			5.0	5.0			--	--	--	16
17	--	--	--					5.0	5.0	--	--	--	18
19	30	3	PWR WELDING LAB-1 C107-1	5.0	5.0					PWR WELDING LAB-1 C107-1	3	30	20
21	--	--	--			5.0	5.0			--	--	--	22
23	--	--	--					5.0	5.0	--	--	--	24
25	30	3	PWR WELDING LAB-1 C107-1	5.0	5.0					PWR WELDING LAB-1 C107-1	3	30	26
27	--	--	--			5.0	5.0			--	--	--	28
29	--	--	--					5.0	5.0	--	--	--	30
31	30	3	PWR WELDING LAB-1 C107-1	5.0	5.0					PWR WELDING LAB-1 C107-1	3	30	32
33	--	--	--			5.0	5.0			--	--	--	34
35	--	--	--					5.0	5.0	--	--	--	36
37	30	3	PWR WELDING LAB-1 C107-1	5.0	5.0					PWR WELDING LAB-1 C107-1	3	30	38
39	--	--	--			5.0	5.0			--	--	--	40
41	--	--	--					5.0	5.0	--	--	--	42
43	30	3	PWR WELDING LAB-1 C107-1	5.0	1.3					PWR: DROP CORD	3	20	44
45	--	--	--			5.0	1.3			--	--	--	46
47	--	--	--					5.0	1.3	--	--	--	48
49	20	3	PWR: DROP CORD	1.3	1.3					PWR: DROP CORD PAC	3	20	50
51	--	--	--			1.3	1.3			--	--	--	52
53	--	--	--					1.3	1.3	--	--	--	54
55	20	3	PWR: DROP CORD	1.3	1.3					PWR: DROP CORD	3	20	56
57	--	--	--			1.3	1.3			--	--	--	58
59	--	--	--					1.3	1.3	--	--	--	60
61	20	3	PWR: DROP CORD	1.3	1.3					PWR: DROP CORD	3	20	62
63	--	--	--			1.3	1.3			--	--	--	64
65	--	--	--					1.3	1.3	--	--	--	66
67	20	3	PWR: DROP CORD	1.3	1.3					PWR: DROP CORD	3	20	68
69	--	--	--			1.3	1.3			--	--	--	70
71	--	--	--					1.3	1.3	--	--	--	72
73	20	1	SPARE	0.0	1.2					PWR: PAC	2	15	74
75	20	1	SPARE			0.0	1.2			--	--	--	76
77	20	1	SPARE					0.0	1.2	PWR: PAC	2	15	78
79	20	1	SPARE	0.0	1.2					--	--	--	80
81	20	1	SPARE			0.0	1.2			PWR: PAC	2	15	82
83	20	1	SPARE					0.0	1.2	--	--	--	84

TOTALS: CONNECTED kVA PER PHASE **104** **104** **104** — CONNECTED TOTAL kVA **313**
CONNECTED AMPS PER PHASE **377** **377** **377** — CONNECTED AVERAGE AMPS PER PHASE **377**

NEC DIVERSIFIED LOAD CALCULATIONS

LIGHTING — ALL OTHER LOADS @100%= **313.5 kVA** — DIVERSIFIED TOTAL kVA **313**
RECEPTACLES — TOTAL MOTOR DEMAND= — AVERAGE AMPS PER **377**

Notes:

PANEL "1HA5"

VOLTS/PHASE/WIRE:	PANEL SIZE & TYPE:	MAIN SIZE AND TYPE:	LOCATION:	CABINET:	NOTES:
480/277 V, 3 PH 4 WIRE	22" W x 6" D, BOLT-ON	225 AMPERE MAIN LUGS	SHELLED LAB-1 C101-1	SURFACE	

ACCESSORIES: PANEL DIRECTORY, IDENTIFICATION, GROUNDING BAR

CKT NO	AMP	POLE	DESCRIPTION	A		B		C		DESCRIPTION	POLE	AMP	CKT NO
1	0	1	SPARE	0.0	0.0					SPARE	1	0	2
3	0	1	SPARE			0.0	0.0			SPARE	1	0	4
5	0	1	SPARE					0.0	0.0	SPARE	1	0	6
7	0	1	SPARE	0.0	0.0					SPARE	1	0	8
9	0	1	SPARE			0.0	0.0			SPARE	1	0	10
11	0	1	SPARE					0.0	0.0	SPARE	1	0	12
13	0	1	SPARE	0.0	0.0					SPARE	1	0	14
15	0	1	SPARE			0.0	0.0			SPARE	1	0	16
17	0	1	SPARE					0.0	0.0	SPARE	1	0	18
19	0	1	SPARE	0.0	0.0					SPARE	1	0	20
21	0	1	SPARE			0.0	0.0			SPARE	1	0	22
23	0	1	SPARE					0.0	0.0	SPARE	1	0	24
25	0	1	SPARE	0.0	0.0					SPARE	1	0	26
27	0	1	SPARE			0.0	0.0			SPARE	1	0	28
29	0	1	SPARE					0.0	0.0	SPARE	1	0	30
31	0	1	SPARE	0.0	0.0					SPARE	1	0	32
33	0	1	SPARE			0.0	0.0			SPARE	1	0	34
35	0	1	SPARE					0.0	0.0	SPARE	1	0	36
37	0	1	SPARE	0.0	0.0					SPARE	1	0	38
39	0	1	SPARE			0.0	0.0			SPARE	1	0	40
41	0	1	SPARE					0.0	0.0	SPARE	1	0	42

TOTALS: CONNECTED kVA PER PHASE **0** **0** **0** — CONNECTED TOTAL kVA **0**
CONNECTED AMPS PER PHASE **0** **0** **0** — CONNECTED AVERAGE AMPS PER PHASE **0**

NEC DIVERSIFIED LOAD CALCULATIONS

LIGHTING — ALL OTHER LOADS @100%= — DIVERSIFIED TOTAL kVA **0**
RECEPTACLES — TOTAL MOTOR DEMAND= — AVERAGE AMPS PER **0**

Notes:

PANEL "1HA1"

VOLTS/PHASE/WIRE:	PANEL SIZE & TYPE:	MAIN SIZE AND TYPE:	LOCATION:	CABINET:	NOTES:
480/277 V, 3 PH 4 WIRE	22" W x 6" D, BOLT-ON	100 AMPERE MAIN LUGS	MAIN ELECTRICAL C109	SURFACE	

ACCESSORIES: PANEL DIRECTORY, IDENTIFICATION, GROUNDING BAR

CKT NO	AMP	POLE	DESCRIPTION	A		B		C		DESCRIPTION	POLE	AMP	CKT NO
1	60	3	CE & R LAB C121	8.3	0.0					SPARE	1	20	2
3	--	--	--			8.3	0.0			SPARE	1	20	4
5	--	--	--					8.3	0.0	SPARE	1	20	6
7	20	1	SPARE	0.0	0.0					SPARE	1	20	8
9	20	1	SPARE			0.0	0.0			SPARE	1	20	10
11	20	1	SPARE					0.0	0.0	SPARE	1	20	12
13	20	1	SPARE	0.0	0.0					SPARE	1	20	14
15	20	1	SPARE			0.0	0.0			SPARE	1	20	16
17	20	1	SPARE					0.0	0.0	SPARE	1	20	18
19	20	1	SPARE	0.0	0.0					SPARE	1	20	20
21	20	1	SPARE			0.0	0.0			SPARE	1	20	22
23	20	1	SPARE					0.0	0.0	SPARE	1	20	24
25	20	1	SPARE	0.0	0.0					SPARE	1	20	26
27	20	1	SPARE			0.0	0.0			SPARE	1	20	28
29	20	1	SPARE					0.0	0.0	SPARE	1	20	30
31	20	1	SPARE	0.0	0.0					SPARE	1	20	32
33	20	1	SPARE			0.0	0.0			SPARE	1	20	34
35	20	1	SPARE					0.0	0.0	SPARE	1	20	36
37	20	1	SPARE	0.0	0.0					SPARE	1	20	38
39	20	1	SPARE			0.0	0.0			SPARE	1	20	40
41	20	1	SPARE					0.0	0.0	SPARE	1	20	42

TOTALS: CONNECTED kVA PER PHASE **8** **8** **8** — CONNECTED TOTAL kVA **25**
CONNECTED AMPS PER PHASE **30** **30** **30** — CONNECTED AVERAGE AMPS PER PHASE **30**

NEC DIVERSIFIED LOAD CALCULATIONS

LIGHTING — ALL OTHER LOADS @100%= **25.0 kVA** — DIVERSIFIED TOTAL kVA **25**
RECEPTACLES — TOTAL MOTOR DEMAND= — AVERAGE AMPS PER **30**

Notes:

PANEL "1HB1"

VOLTS/PHASE/WIRE:	PANEL SIZE & TYPE:	MAIN SIZE AND TYPE:	LOCATION:	CABINET:	NOTES:
480/277 V, 3 PH 4 WIRE	22" W x 6" D, BOLT-ON	100 AMPERE MAIN LUGS	ELECTRICAL A121	SURFACE	

ACCESSORIES: PANEL DIRECTORY, IDENTIFICATION, GROUNDING BAR

CKT NO	AMP	POLE	DESCRIPTION	A		B		C		DESCRIPTION	POLE	AMP	CKT NO
1	0	1	SPARE	0.0	0.4					PWR: EF-1	3	15	2
3	0	1	SPARE			0.0	0.4			--	--	--	4
5	0	1	SPARE					0.0	0.4	--	--	--	6
7	0	1	SPARE	0.0	0.3					PWR: MAU-1	3	15	8
9	0	1	SPARE			0.0	0.3			--	--	--	10
11	0	1	SPARE					0.0	0.3	--	--	--	12
13	0	1	SPARE	0.0	3.9					PWR: HP-1C	3	30	14
15	0	1	SPARE			0.0	3.9			--	--	--	16
17	0	1	SPARE					0.0	3.9	--	--	--	18
19	0	1	SPARE	0.0	3.9					PWR: HP-1B	3	30	20
21	0	1	SPARE			0.0	3.9			--	--	--	22
23	0	1	SPARE					0.0	3.9	--	--	--	24
25	0	1	SPARE	0.0	3.9					PWR: HA-1A	3	30	26
27	0	1	SPARE			0.0	3.9			--	--	--	28
29	0	1	SPARE					0.0	3.9	--	--	--	30
31	0	1	SPARE	0.0	3.9					PWR: HP-2B	3	30	32
33	0	1	SPARE			0.0	3.9			--	--	--	34
35	0	1	SPARE					0.0	3.9	--	--	--	36
37	0	1	SPARE	0.0	3.9					PWR: HP-2A	3	30	38
39	0	1	SPARE			0.0	3.9			--	--	--	40
41	0	1	SPARE					0.0	3.9	--	--	--	42

TOTALS: CONNECTED kVA PER PHASE **20** **20** **20** — CONNECTED TOTAL kVA **60**
CONNECTED AMPS PER PHASE **72** **72** **72** — CONNECTED AVERAGE AMPS PER PHASE **72**

NEC DIVERSIFIED LOAD CALCULATIONS

LIGHTING — ALL OTHER LOADS @100%= **58.1 kVA** — DIVERSIFIED TOTAL kVA **60**
RECEPTACLES — TOTAL MOTOR DEMAND= **2.3 kVA** — AVERAGE AMPS PER **73**

Notes:

01/18/2012

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project:
TOOELE APPLIED TECHNOLOGY COLLEGE - NEW BUILDING

88 South Tooele Blvd
Tooele, UT 84074

project#: 11.0420
date: 1/20/11

revisions :

Panel Schedules

sheet:

EP606

100% Construction Documents

PANEL "1LA1"

VOLTS/PHASE/WIRE:	PANEL SIZE & TYPE:	MAIN SIZE AND TYPE:	LOCATION:	CABINET:	NOTES:
120/208V, 3 PH 4 WIRE	22" W x 6" D, BOLT-ON	225 AMPERE MAIN LUGS	MAIN ELECTRICAL C109	SURFACE	

ACCESSORIES: PANEL DIRECTORY, IDENTIFICATION, GROUNDING BAR

CKT NO	AMP	POLE	DESCRIPTION	A		B		C		DESCRIPTION	POLE	AMP	CKT NO
1	60	2	GENERATOR	4.0	0.2					CO SUPPLY ROOM C110	1	20	2
3	--	--	--			4.0	0.2			PWR	1	20	4
5	20	1	SPARE					0.0	0.5	PWR	1	20	6
7	20	1	SPARE	0.0	0.7					CO Room C124	1	20	8
9	20	1	CO DIESEL OFFICE C113			0.9	0.2			CO CE & R CLASSROOM C124	1	20	10
11	20	1	CO DIESEL CLASSROOM C112					0.4	0.8	PWR CE & R CLASSROOM C124	1	20	12
13	20	1	PWR	0.2	1.4					CE & R CLASSROOM C124	1	20	14
15	20	1	CO DIESEL CLASSROOM C112			0.7	0.4			PWR CE & R CLASSROOM C124	1	20	16
17	20	1	CO DIESEL CLASSROOM C112					0.7	0.4	CO COORIDOR C100B	1	20	18
19	20	1	PWR DIESEL CLASSROOM C112	0.4	0.8					PWR: DF COORIDOR C100B	1	20	20
21	30	2	PWR TOOL STORAGE C111			2.0	1.7			CO CE & R OFFICE C123	1	20	22
23	--	--	--					2.0	0.2	CO CE & R STORAGE C122	1	20	24
25	20	1	CO TOOL STORAGE C111	0.7	0.9					CO WELDING CLASSROOM C114	1	20	26
27	20	1	CO Room C205, C206-2			0.5	0.4			PWR	1	20	28
29	20	1	CO Room C206-1					0.4	0.5	CO WELDING CLASSROOM C114	1	20	30
31	20	1	CO ROOF	0.5	0.8					PWR WELDING CLASSROOM C114	1	20	32
33	20	1	LTG AH-4 LIGHTS			0.5	0.7			CO WELDING CLASSROOM C114	1	20	34
35	20	1	CO ROOF					0.4	1.7	CO Room C115	1	20	36
37	15	2	PWR VRV-24-30	0.7	0.4					PWR Room C118, C120	1	20	38
39	--	--	--			0.7	0.4			PWR Room C117, C119	1	20	40
41	20	1	PWR HVAC CONTROLS					0.5	0.2	CO WL STORAGE C116	1	20	42
43	15	1	PWR: ECSP-1	0.9	0.5					CO CORRIDOR C100	1	20	44
45	15	1	PWR: ECSP-1			0.9	0.2			Power	1	20	46
47	15	1	PWR: ECSP-2					0.5	0.0	SPARE	1	20	48
49	15	1	MTR: ECSP-2	0.5	0.0					SPARE	1	20	50
51	30	2	PWR: CU-3			2.3	0.0			SPARE	1	20	52
53	--	--	--					2.3	0.0	SPARE	1	20	54
55	15	1	MTR: EF-13	0.4	0.0					SPARE	1	20	56
57	15	1	MTR: EF-15			1.2	0.0			SPARE	1	20	58
59	20	1	PWR: ECSP-2					0.5	0.0	SPARE	1	20	60
61	15	2	PWR AC-3	0.1	0.0					SPARE	1	20	62
63	--	--	--			0.1	0.0			SPARE	1	20	64
65	20	1	PWR HVAC CONTROLS					0.5	0.0	SPARE	1	20	66
67	15	2	PWR BS-8-10	0.3	0.0					SPARE	1	20	68
69	--	--	--			0.3	0.0			SPARE	1	20	70
71	20	1	SPARE					0.0	0.0	SPARE	1	20	72
73	20	1	SPARE	0.0	0.0					SPARE	1	20	74
75	20	1	SPARE			0.0	0.0			SPARE	1	20	76
77	20	1	SPARE					0.0	0.0	SPARE	1	20	78
79	20	1	SPARE	0.0	0.0					SPARE	1	20	80
81	20	1	SPARE			0.0							82
83	20	1	SPARE					0.0	0.0	SPARE	1	20	84
TOTALS:			CONNECTED kVA PER PHASE	15		18		12		CONNECTED TOTAL kVA		45	
			CONNECTED AMPS PER PHASE	124		154		103		CONNECTED AVERAGE AMPS PER PHASE		125	

NEC DIVERSIFIED LOAD CALCULATIONS

LIGHTING — ALL OTHER LOADS @100%= **27.8 kVA** — DIVERSIFIED TOTAL kVA **45**

RECEPTACLES **12 kVA @93% =11 kVA** — TOTAL MOTOR DEMAND= **5.2 kVA** — AVERAGE AMPS PER **124**

Notes:

PANEL "1LA2"

VOLTS/PHASE/WIRE:	PANEL SIZE & TYPE:	MAIN SIZE AND TYPE:	LOCATION:	CABINET:	NOTES:
120/208V, 3 PH 4 WIRE	22" W x 6" D, BOLT-ON	225 AMPERE MAIN LUGS	MAIN ELECTRICAL C109	SURFACE	

ACCESSORIES: PANEL DIRECTORY, IDENTIFICATION, GROUNDING BAR

CKT NO	AMP	POLE	DESCRIPTION	A		B		C		DESCRIPTION	POLE	AMP	CKT NO
1	20	1	CO CE & R LAB C121	0.2	0.2					PWR: DROP CORD CE & R LAB C121	1	20	2
3	20	1	CO CE & R LAB C121			0.2	2.3			PWR: DROP CORD CE & R LAB C121	3	30	4
5	20	3	MTR: OH DOOR CE & R LAB C121					1.0	2.3	--	--	--	6
7	--	--	--	1.0	2.3					--	--	--	8
9	--	--	--			1.0	0.4			CO CE & R LAB C121	1	20	10
11	20	1	CO					0.4	0.4	CO CE & R LAB C121	1	20	12
13	20	1	PWR	0.2	0.4					CO CE & R LAB C121	1	20	14
15	20	3	MTR: OH DOOR CE & R LAB C121			1.0	0.2			PWR: DROP CORD CE & R LAB C121	1	20	16
17	--	--	--					1.0	0.2	PWR: DROP CORD CE & R LAB C121	1	20	18
19	--	--	--	1.0	2.3					PWR: DROP CORD CE & R LAB C121	3	30	20
21	20	1	CO			0.4	2.3			--	--	--	22
23	20	1	PWR					0.2	2.3	--	--	--	24
25	20	3	MTR: OH DOOR CE & R LAB C121	1.0	0.2					PWR: DROP CORD CE & R LAB C121	1	20	26
27	--	--	--			1.0	1.0			MTR: OH DOOR CE & R LAB C121	3	20	28
29	--	--	--					1.0	1.0	--	--	--	30
31	20	1	PWR: DROP CORD	0.2	1.0					--	--	--	32
33	30	3	PWR: DROP CORD			2.3	0.4			CO	1	20	34
35	--	--	--					2.3	0.4	CO	1	20	36
37	--	--	--	2.3	0.2					CO	1	20	38
39	20	1	SPARE			0.0	0.0			SPARE	1	20	40
41	20	1	SPARE					0.0	0.0	SPARE	1	20	42
43	30	3	PWR CE & R LAB C121	2.3	0.2					PWR: DROP CORD CE & R LAB C121	1	20	44
45	--	--	--			2.3	0.4			CO	1	20	46
47	--	--	--					2.3	0.4	CO	1	20	48
49	20	1	CO CE & R LAB C121	0.4	0.2					PWR: DROP CORD CE & R LAB C121	1	20	50
51	20	1	CO			0.2	0.4			RECEPT	1	20	52
53	20	1	PWR: DROP CORD					0.2	0.4	RECEPT	1	20	54
55	20	1	PWR: DROP CORD	0.2	0.4					PWR	1	20	56
57	20	1	PWR: DROP CORD			0.2	1.0			MTR: OH DOOR CE & R LAB C121	3	20	58
59	20	1	CO CE & R LAB C121					0.4	1.0	--	--	--	60
61	20	1	PWR: DROP CORD	0.2	1.0					--	--	--	62
63	20	1	PWR: DROP CORD			0.2	0.2			PWR: DROP CORD CE & R LAB C121	1	20	64
65	20	1	PWR: DROP CORD					7.0	0.5	PWR: TSR-1	1	15	66
67	20	1	PWR: DROP CORD	0.2	0.5					PWR: TSR-2	1	15	68
69	20	1	PWR: DROP CORD			0.2	0.5			PWR: TSR-3	1	15	70
71	20	1	CO CE & R LAB C121					0.4	0.5	PWR: TSR-4	1	15	72
73	20	1	PWR IH-4	0.6	0.0					SPARE	1	20	74
75	20	1	PWR IH-5			0.6	0.0			SPARE	1	20	76
77	20	1	PWR IH-6					0.6	0.0	SPARE	1	20	78
79	20	1	SPARE	0.0	0.0					SPARE	1	20	80
81	20	1	SPARE			0.0	0.0			SPARE	1	20	82
83	20	1	SPARE					0.0	0.0	SPARE	1	20	84
TOTALS:			CONNECTED kVA PER PHASE	19		19		26		CONNECTED TOTAL kVA		63	
			CONNECTED AMPS PER PHASE	156		155		217		CONNECTED AVERAGE AMPS PER PHASE		176	

NEC DIVERSIFIED LOAD CALCULATIONS

LIGHTING — ALL OTHER LOADS @100%= **41.9 kVA** — DIVERSIFIED TOTAL kVA **64**

RECEPTACLES **6 kVA @100% =6 kVA** — TOTAL MOTOR DEMAND= **15.8 kVA** — AVERAGE AMPS PER **178**

Notes:

PANEL "1LA4"

VOLTS/PHASE/WIRE:	PANEL SIZE & TYPE:	MAIN SIZE AND TYPE:	LOCATION:	CABINET:	NOTES:
120/208V, 3 PH 4 WIRE	22" W x 6" D, BOLT-ON	225 AMPERE MAIN LUGS	CONSTRUCTION TECHNOLOGY	SURFACE	

ACCESSORIES: PANEL DIRECTORY, IDENTIFICATION, GROUNDING BAR

CKT NO	AMP	POLE	DESCRIPTION	A		B		C		DESCRIPTION	POLE	AMP	CKT NO
1	20	1	CO CONSTRUCTION TECHNOLOGY CLASSROOM	0.5	1.8					CO CONSTRUCTION TECHNOLOGY LAB C103	1	20	2
3	20	1	CO CONSTRUCTION TECHNOLOGY CLASSROOM			0.7	0.4			CO CONSTRUCTION TECHNOLOGY LAB C103	1	20	4
5	20	1	CO CONSTRUCTION TECHNOLOGY CLASSROOM					0.7	0.7	CO CONSTRUCTION TECHNOLOGY LAB C103	1	20	6
7	20	1	CT OFFICE C106	0.9	0.2					PWR: DROP CORD LAB C103	1	20	8
9	20	1	PWR CONSTRUCTION TECHNOLOGY			0.2	0.2			PWR: DROP CORD LAB C103	1	20	10
11	20	1	Room C104					0.7	0.2	PWR: DROP CORD LAB C103	1	20	12
13	20	1	CO CT STORAGE C105	0.2	0.2					PWR: DROP CORD LAB C103	1	20	14
15	20	1	PWR			0.2	0.2			CO CONSTRUCTION TECHNOLOGY LAB C103	1	20	16
17	20	1	PWR: DROP CORD LAB C103					0.2	0.4	CO CONSTRUCTION TECHNOLOGY LAB C103	1	20	18
19	20	1	PWR: DROP CORD LAB C103	0.2	0.2					PWR: DROP CORD LAB C103	1	20	20
21	20	1	PWR: DROP CORD LAB C103			0.2	0.2			PWR: DROP CORD LAB C103	1	20	22
23	20	1	PWR: DROP CORD LAB C103					0.2	0.2	PWR: DROP CORD LAB C103	1	20	24
25	20	1	PWR: DROP CORD LAB C103	0.2	0.2					PWR: DROP CORD LAB C103	1	20	26
27	20	3	MTR: OH DOOR LAB C103			1.0	0.4			CO CONSTRUCTION TECHNOLOGY LAB C103	1	20	28
29	--	--	--					1.0	0.2	PWR: DROP CORD LAB C103	1	20	30
31	--	--	--	1.0	0.2					PWR: DROP CORD LAB C103	1	20	32
33	20	1	PWR: DROP CORD LAB C103			0.2	0.2			PWR: DROP CORD LAB C103	1	20	34
35	20	1	PWR: DROP CORD LAB C103					0.2	0.2	PWR: DROP CORD LAB C103	1	20	36
37	20	1	PWR: DROP CORD LAB C103	0.2	0.2					PWR: DROP CORD LAB C103	1	20	38
39	20	1	LTG AH-1 LIGHTS			0.5	0.7			PWR FC-2	1	15	40
41	20	1	CO ROOF					0.2	0.0	SPARE	1	0	42
43	20	1	PWR: DROP CORD LAB C103	0.2	0.2					PWR: DROP CORD LAB C103	1	20	44
45	20	1	PWR: DROP CORD LAB C103			0.2	0.2			PWR: DROP CORD LAB C103	1	20	46
47	20	1	PWR: DROP CORD LAB C103					0.2	0.2	PWR: DROP CORD LAB C103	1	20	48
49	20	1	PWR: DROP CORD LAB C103	0.2	0.2					PWR: DROP CORD LAB C103	1	20	50
51	20	1	PWR: DROP CORD LAB C103			0.2	0.2			PWR: DROP CORD LAB C103	1	20	52
53	20	1	PWR: DROP CORD LAB C103					0.2	0.2	PWR: DROP CORD LAB C103	1	20	54
55	20	1	PWR: DROP CORD LAB C103	0.2	0.2					PWR: DROP CORD LAB C103	1	20	56
57	20	1	PWR: DROP CORD LAB C103			0.2	0.2			PWR: DROP CORD LAB C103	1	20	58
59	20	1	PWR: DROP CORD LAB C103					0.2	0.2	PWR: DROP CORD LAB C103	1	20	60
61	20	1	PWR: DROP CORD LAB C103	0.2	0.2					PWR: DROP CORD LAB C103	1	20	62
63	20	1	PWR: DROP CORD LAB C103			0.2	0.2			PWR: DROP CORD LAB C103	1	20	64
65	20	1	PWR: DROP CORD LAB C103					0.2	0.2	PWR: DROP CORD LAB C103	1	20	66
67	20	1	PWR: DROP CORD LAB C103	0.2	0.4					CO CONSTRUCTION TECHNOLOGY LAB C103	1	20	68
69	20	1	PWR: DROP CORD LAB C103			0.2	0.2			PWR: MECH CONTROLS	1	20	70
71	20	1	PWR: DROP CORD LAB C103					0.2	0.2	PWR: VRV-32	2	15	72
73	20	1	CO CONSTRUCTION TECHNOLOGY LAB C103	0.4	0.2					--	--	--	74
75	20	1	CO CONSTRUCTION TECHNOLOGY LAB C103			0.4	0.1			PWR: BS-7	2	15	76
77	20	1	CO CONSTRUCTION TECHNOLOGY LAB C103					0.5	0.1	--	--	--	78
79	0	1	SPARE	0.0	0.5					LTG AH-3 LIGHTS	1	20	80
81	0	1	SPARE			0.0	0.2			POWER	1	20	82
83	0	1	SPARE					0.0	0.5	LTG AH-2 LIGHTS	1	20	84
TOTALS:			CONNECTED kVA PER PHASE	9		8		8		CONNECTED TOTAL kVA		25	
			CONNECTED AMPS PER PHASE	79		65		69		CONNECTED AVERAGE AMPS PER PHASE		71	

NEC DIVERSIFIED LOAD CALCULATIONS

LIGHTING — ALL OTHER LOADS @100%= **13.0 kVA** — DIVERSIFIED TOTAL kVA **27**

RECEPTACLES **8 kVA @100% =8 kVA** — TOTAL MOTOR DEMAND= **3.8 kVA** — AVERAGE AMPS PER **74**

Notes:

PANEL "1LA3"

VOLTS/PHASE/WIRE:	PANEL SIZE & TYPE:	MAIN SIZE AND TYPE:	LOCATION:	CABINET:	NOTES:
120/208V, 3 PH 4 WIRE	22" W x 6" D, BOLT-ON	225 AMPERE MAIN LUGS	MAIN ELECTRICAL C109	SURFACE	

ACCESSORIES: PANEL DIRECTORY, IDENTIFICATION, GROUNDING BAR

CKT NO	AMP	POLE	DESCRIPTION	A		B		C		DESCRIPTION	POLE	AMP	CKT NO
1	20	1	CO WELDING LAB C107	0.4	0.5					PWR: DROP CORD WELDING LAB C107	1	20	2
3	20	1	CO WELDING LAB C107			0.4	0.5			PWR: DROP CORD WELDING LAB C107	1	20	4
5	20	1	CO WELDING LAB C107					0.4	0.5	PWR: DROP CORD WELDING LAB C107	1	20	6
7	20	1	CO WELDING LAB C107	0.4	0.5					PWR: DROP CORD WELDING LAB C107	1	20	8
9	20	1	CO WELDING LAB C107			0.2	0.5			PWR: DROP CORD WELDING LAB C107	1	20	10
11	20	1	CO WELDING LAB C107					0.4	0.5	PWR: DROP CORD WELDING LAB C107	1	20	12
13	20	1	CO WELDING LAB C107	0.4	0.5					PWR: DROP CORD WELDING LAB C107	1	20	14
15	20	1	CO WELDING LAB C107			0.4	0.5			PWR: DROP CORD WELDING LAB C107	1	20	16
17	20	1	CO WELDING LAB C107					0.4	0.5	PWR: DROP CORD WELDING LAB C107	1	20	18
19	20	3	MTR: OH DOOR	1.0	0.5					PWR: DROP CORD WELDING LAB C107	1	20	20
21	--	--	--			1.0	0.5			PWR: DROP CORD WELDING LAB C107	1	20	22
23	--	--	--					1.0	0.5	PWR: DROP CORD WELDING LAB C107	1	20	24
25	20	1	CO WELDING LAB C107	0.4	0.5					PWR: DROP CORD WELDING LAB C107	1	20	26
27	20	1	CO GRINDING C108			0.8	0.5			PWR: DROP CORD WELDING LAB C107	1	20	28
29	20	1	CO GRINDING C108					0.8	0.5	PWR: DROP CORD WELDING LAB C107	1	20	30
31	20	1	CO GRINDING C108	0.8	0.5					PWR: DROP CORD WELDING LAB C107	1	20	32
33	20	1	CO GRINDING C108			0.8	0.5			PWR: DROP CORD WELDING LAB C107	1	20	34
35	20	1	CO GRINDING C108					0.8	0.5	PWR: DROP CORD WELDING LAB C107	1	20	36
37	20	1	CO GRINDING C108	0.8	0.5					PWR: DROP CORD WELDING LAB C107	1	20	38
39	20	1	CO GRINDING C108			0.8	0.5			PWR: DROP CORD WELDING LAB C107	1	20	40
41	20	1	CO GRINDING C108					0.8	0.5	PWR: DROP CORD WELDING LAB C107	1	20	42
43	20	1	CO WELDING LAB C107	0.4	0.5					PWR: DROP CORD WELDING LAB C107	1	20	44
45	20	1	CO WELDING LAB C107			0.4	0.5			PWR: DROP CORD WELDING LAB C107	1	20	46
47	20	1	CO WELDING LAB C107					0.4	0.5	PWR: DROP CORD WELDING LAB C107	1	20	48
49	20	1	CO WELDING LAB C107	0.4	0.5					PWR: DROP CORD WELDING LAB C107	1	20	50
51	20	1	CO WELDING LAB C107			0.4	0.5			PWR: DROP CORD WELDING LAB C107	1	20	52
53	20	1	CO WELDING LAB C107					0.4	0.5	PWR: DROP CORD WELDING LAB C107	1	20	54
55	20	1	CO WELDING LAB C107	0.4	0.5					PWR: DROP CORD WELDING LAB C107	1	20	56
57	20	1	CO WELDING LAB C107			0.4	0.5			PWR: DROP CORD WELDING LAB C107	1	20	58
59	20	1	CO WELDING LAB C107					0.4	0.5	PWR: DROP CORD WELDING LAB C107	1	20	60
61	20	1	CO WELDING LAB C107	0.4	0.5					PWR: DROP CORD WELDING LAB C107	1	20	62
63	20	1	CO WELDING LAB C107			0.4	0.5			PWR: DROP CORD WELDING LAB C107	1	20	64
65	20	1	CO WELDING LAB C107					0.4	3.2	MTR EF-1	1	20	66
67	20	1	CO WELDING LAB C107	0.4	0.0					SPARE	1	20	68
69	20	1	PWR HVAC CONTROLS			0.5	0.0			SPARE	1	20	70
71	20	1	PWR IH-1					0.6	0.0	SPARE	1	20	72
73	20	1	PWR IH-2	0.6	0.0					SPARE	1	20	74
75	20	1	PWR IH-3			0.6	0.0			SPARE	1	20	76
77	20	1	CO MEZZANINE STORAGE C208					0.2	0.0	SPARE	1	20	78
79	20	1	SPARE	0.0	0.0					SPARE	1	20	80
81	20	1	SPARE			0.0	0.0			SPARE	1	20	82
83	20	1	SPARE					0.0	0.0	SPARE	1	20	84
TOTALS:			CONNECTED kVA PER PHASE	12		12		15		CONNECTED TOTAL kVA		39	
			CONNECTED AMPS PER PHASE	99		103		124		CONNECTED AVERAGE AMPS PER PHASE		109	

NEC DIVERSIFIED LOAD CALCULATIONS

LIGHTING — ALL OTHER LOADS @100%= **24.6 kVA** — DIVERSIFIED TOTAL kVA **40**

RECEPTACLES **8 kVA @100% =8 kVA** — TOTAL MOTOR DEMAND= **7.0 kVA** — AVERAGE AMPS PER **111**

Notes:

PANEL "1LA5"

VOLTS/PHASE/WIRE:	PANEL SIZE & TYPE:	MAIN SIZE AND TYPE:	LOCATION:	CABINET:	NOTES:
120/208V, 3 PH 4 WIRE	22" W x 6" D, BOLT-ON	225 AMPERE MAIN LUGS	SHELLED LAB-1 C101-1	SURFACE	

ACCESSORIES: PANEL DIRECTORY, IDENTIFICATION, GROUNDING BAR

CKT NO	AMP	POLE	DESCRIPTION	A		B		C		DESCRIPTION	POLE	AMP	CKT NO
1	20	1	RECEPT RECEIVING C102A	0.5	0.2					PWR: MECH CONTROLS	1	20	2
3	20	3	MOTOR: OH DOOR			1.0	0.2			PWR: VRV 33/34	2	20	4
5	--	--	--					1.0	0.2	--	--	--	6
7	--	--	--	1.0	0.2					POWER	1	20	8
9	20	1	PWR			0.2	0.0			SPARE	1	0	10
11	20	1	CO SHELLED LAB-1 C101-1					0.2	0.0	SPARE	1	0	12
13	15	1	PWR UH-1, UH-2	0.3	0.0					SPARE	1	0	14
15	0	1	SPARE			0.0	0.0			SPARE	1	0	16
17	0	1	SPARE					0.0	0.0	SPARE	1	0	18
19	0	1	SPARE	0.0	0.0					SPARE	1	0	20
21	0	1	SPARE			0.0	0.0			SPARE	1	0	22
23	0	1	SPARE					0.0	0.0	SPARE	1	0	24
25	0	1	SPARE	0.0	0.0					SPARE	1	0	26
27	0	1	SPARE			0.0	0.0			SPARE	1	0	28
29	0	1	SPARE					0.0	0.0	SPARE	1	0	30
31	0	1	SPARE	0.0	0.0					SPARE	1	0	32
33	0	1	SPARE			0.0	0.0			SPARE	1	0	34
35	0	1	SPARE					0.0	0.0	SPARE	1	0	36
37	0	1	SPARE	0.0	0.0					SPARE	1	0	38
39	0	1	SPARE			0.0	0.0			SPARE	1	0	40
41	0	1	SPARE					0.0	0.0	SPARE	1	0	42
43	0	1	SPARE	0.0	0.0					SPARE	1	0	44
45	0	1	SPARE			0.0	0.0			SPARE	1	0	46
47	0	1	SPARE					0.0	0.0	SPARE	1	0	48
49	0	1	SPARE	0.0	0.0					SPARE	1	0	50
51	0	1	SPARE			0.0	0.0			SPARE	1	0	52
53	0	1	SPARE					0.0	0.0	SPARE	1	0	54
55	0	1	SPARE	0.0	0.0					SPARE	1	0	56
57	0	1	SPARE			0.0	0.0			SPARE	1	0	58
59	0	1	SPARE					0.0	0.0	SPARE	1	0	60
61	0	1	SPARE	0.0	0.0					SPARE	1	0	62
63	0	1	SPARE			0.0	0.0			SPARE	1	0	64
65	0	1	SPARE					0.0	0.0	SPARE	1	0	66
67	0	1	SPARE	0.0	0.0					SPARE	1	0	68
69	0	1	SPARE			0.0	0.0			SPARE	1	0	70
71	0	1	SPARE					0.0	0.0	SPARE	1	0	72
73	0	1	SPARE	0.0	0.0					SPARE	1	0	74
75	0	1	SPARE			0.0	0.0			SPARE	1	0	76
77	0	1	SPARE					0.0	0.0	SPARE	1	0	78
79	0	1	SPARE	0.0	0.0					SPARE	1	0	80
81	0	1	SPARE			0.0	0.0			SPARE	1	0	82
83	0	1	SPARE					0.0	0.0	SPARE	1	0	84
TOTALS:			CONNECTED kVA PER PHASE	2		1		1		CONNECTED TOTAL kVA		5	
			CONNECTED AMPS PER PHASE	18		11		11		CONNECTED AVERAGE AMPS PER PHASE		14	

NEC DIVERSIFIED LOAD CALCULATIONS

LIGHTING — ALL OTHER LOADS @100%= **0.9 kVA** — DIVERSIFIED TOTAL kVA **6**

RECEPTACLES **1 kVA @100% =1 kVA** — TOTAL MOTOR DEMAND= **3.8 kVA** — AVERAGE AMPS PER **16**

Notes:

01/18/2012

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project:
TOOELE APPLIED TECHNOLOGY COLLEGE - NEW BUILDING

88 South Tooele Blvd
Tooele, UT 84074

project#: 11.0420
date: 1/20/11

revisions :

Panel Schedules

sheet:

EP607

100% Construction Documents

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PANEL "1LB1"

VOLTS/PHASE/WIRE:	PANEL SIZE & TYPE:	MAIN SIZE AND TYPE:	LOCATION:	CABINET:	NOTES:
120/208V, 3 PH 4 WIRE	22" W x 6" D, BOLT-ON	225 AMPERE MAIN LUGS	ELECTRICAL A121	SURFACE	

ACCESSORIES: PANEL DIRECTORY, IDENTIFICATION, GROUNDING BAR

CKT NO	AMP	POLE	DESCRIPTION	A	A	B	B	C	C	DESCRIPTION	POLE	AMP	CKT NO
1	20	1	CO CORRIDOR B100	0.5	0.4					CO WOMEN B105	1	20	2
3	20	1	MULTIPURPOSE ROOM B103			1.2	0.4			PWR	1	20	4
5	20	1	CO MULTIPURPOSE ROOM B103					0.5	0.4	CO CORRIDOR B100	1	20	6
7	20	1	CO MULTIPURPOSE ROOM B103	0.5	0.2					CO CORRIDOR B100	1	20	8
9	20	1	MULTIPURPOSE ROOM B103			1.0	0.2			CO CORRIDOR B100	1	20	10
11	20	1	Power MULTIPURPOSE ROOM B103					0.4	0.2	CO BOOKSTORE STORAGE B110A	1	20	12
13	20	1	CO MULTIPURPOSE ROOM B103	1.0	0.5					CO BOOKSTORE B110	1	20	14
15	20	1	PROJ.			0.2	1.0			PWR BOOKSTORE B110	1	20	16
17	20	1	CO MULTIPURPOSE ROOM B103					1.0	0.4	CO BOOKSTORE B110	1	20	18
19	20	1	PROJ	0.2	0.2					PWR: WALL MNT TV	1	20	20
21	20	1	PWR: PARTITION WALL			0.2	0.4			CO CAFETERIA B111	1	20	22
23	20	1	CO MULTIPURPOSE ROOM B103					0.5	1.1	CO OFFICE B115	1	20	24
25	20	1	CO STORAGE B104	0.7	1.0					CO MEDIA B112	1	20	26
27	20	1	DRINKING FTN.			0.8	1.0			CO MEDIA B112	1	20	28
29	20	1	PLACEMENT OFFICE B114					0.7	0.7	CO	1	20	30
31	20	1	CO	0.7	0.4					CO PLACEMENT B113	1	20	32
33	20	1	CO			0.4	0.9			CO PLACEMENT B113	1	20	34
35	20	1	CO					0.4	0.4	CO MEDIA B112	1	20	36
37	20	1	CO SS VP B126	1.4	0.4					CO	1	20	38
39	20	1	CO SPARE OFFICE B125			1.1	0.4			CO ENROLLMENT B120	1	20	40
41	20	1	CO					0.4	0.5	CO	1	20	42
43	20	1	CO	0.4	0.4					PWR: EF-4	1	15	44
45	20	1	CO ENROLLMENT B120			0.2	1.2			PWR: EF-5	1	15	46
47	20	1	CO					0.7	0.2	PWR: MECH CONTROLS	1	20	48
49	20	1	CO Room B120A, B124	0.5	0.2					PWR: MECH CONTROLS	1	20	50
51	20	1	CO Room B123			0.9	0.2			PWR: MECH CONTROLS	1	20	52
53	20	1	CO COUNSELOR B122					0.9	0.1	PWR: CUH-1	1	15	54
55	20	1	CO ENROLLMENT B120	0.9	0.7					PWR VRV-6,7,8,10,11,12,13	2	15	56
57	20	1	CO RECEPTION B119			0.7	0.7			--	--	--	58
59	20	1	CO ENROLMENT WAITING B121					1.5	0.6	PWR VRV-3,4,5,9,14,36	2	15	60
61	20	1	CO ENROLMENT WAITING B121	0.2	0.6					--	--	--	62
63	20	1	CO Room B119, B101-1			0.4	0.5			PWR HVAC CONTROLS	1	20	64
65	15	2	PWR BS-1,2,3,11,12,13					0.3	0.0	SPARE	1	20	66
67	--	--	--	0.3	0.0					SPARE	1	20	68
69	20	1	PWR HVAC CONTROLS			0.5	0.0			SPARE	1	20	70
71	15	2	PWR VRV-1A,1B, 2A,2B, 35A,35B					1.0	0.0	SPARE	1	20	72
73	--	--	--	1.0	0.0					SPARE	1	20	74
75	0	1	SPARE			0.0	0.0			SPARE	1	20	76
77	0	1	SPARE					0.0	0.0	SPARE	1	20	78
79	0	1	SPARE	0.0	0.0					SPARE	1	20	80
81	0	1	SPARE			0.0	0.0			SPARE	1	20	82
83	0	1	SPARE					0.0	0.0	SPARE	1	20	84

TOTALS: CONNECTED kVA PER PHASE 13 | 14 | 13 — CONNECTED TOTAL kVA 40
CONNECTED AMPS PER PHASE 111 | 120 | 106 — CONNECTED AVERAGE AMPS PER PHASE 112

NEC DIVERSIFIED LOAD CALCULATIONS

LIGHTING — ALL OTHER LOADS @100%= **12.3 kVA** — DIVERSIFIED TOTAL kVA **32**
RECEPTACLES **26 kVA @69% =18 kVA** — TOTAL MOTOR DEMAND= **1.9 kVA** — AVERAGE AMPS PER **90**

Notes:

PANEL "1LB2"

VOLTS/PHASE/WIRE:	PANEL SIZE & TYPE:	MAIN SIZE AND TYPE:	LOCATION:	CABINET:	NOTES:
120/208V, 3 PH 4 WIRE	22" W x 6" D, BOLT-ON	225 AMPERE MAIN LUGS	ELECTRICAL A121	SURFACE	

ACCESSORIES: PANEL DIRECTORY, IDENTIFICATION, GROUNDING BAR

CKT NO	AMP	POLE	DESCRIPTION	A	A	B	B	C	C	DESCRIPTION	POLE	AMP	CKT NO
1	20	1	CO TESTING A102	0.5	0.4					CO CORRIDOR B100	1	20	2
3	20	1	CO TESTING A102			0.4	0.9			CO;PWR: HEADEND	1	20	4
5	20	1	CO TESTING A102					0.5	0.4	CO;PWR: HEADEND	1	20	6
7	20	1	CO TESTING A102	0.5	0.4					CO;PWR: HEADEND	1	20	8
9	20	1	CO MEDICAL ASSISTING CLASSROOM A101			0.4	0.7			PWR	1	20	10
11	20	1	CO MEDICAL ASSISTING CLASSROOM A101					0.5	0.7	PWR	1	20	12
13	20	1	CO MEDICAL ASSISTING CLASSROOM A101	0.2	0.9					CO Room A128	1	20	14
15	20	1	CO MEDICAL ASSISTING CLASSROOM A101			2.4	0.9			CO;PWR: HEADEND	1	20	16
17	20	1	CO MEDICAL ASSISTING CLASSROOM A101					1.4	0.9	CO;PWR: HEADEND	1	20	18
19	20	1	PWR	0.2	0.9					CO;PWR: HEADEND	1	20	20
21	20	1	CO STORAGE A103			0.4	0.5			CO STORAGE A129	1	20	22
23	20	1	CO LAB RECEPTION A104A					0.7	0.4	PWR CORRIDOR C100A	1	20	24
25	20	1	CO MA Office A105	0.7	0.2					PWR INSTRUCTION TOILET A115	1	20	26
27	20	1	CO MEDICAL ASSISTING LAB A104			0.7	1.1			CO CPR A125	1	20	28
29	20	1	CO MEDICAL ASSISTING LAB A104					0.5	0.5	CO CPR A125	1	20	30
31	20	1	CO RN CLASSROOM A127	0.7	0.4					CO CPR A125	1	20	32
33	20	1	PWR MEDICAL ASSISTING LAB A104			0.5	0.2			CO CPR A125	1	20	34
35	20	1	CO MEDICAL ASSISTING LAB A104					0.4	0.5	Room A124, A123, A122	1	20	36
37	20	1	CO EXAM A107	0.9	0.7					Room A118, A100	1	20	38
39	30	3	PWR XRAY A108			2.5	0.5			CNA STORAGE A117	1	20	40
41	--	--	--					2.5	0.4	CO CONTROL A119	1	20	42
43	--	--	--	2.5	0.5					CO CONTROL A119	1	20	44
45	20	1	CO XRAY A108			0.2	0.4			PWR SIM ROOM A120	1	20	46
47	20	1	CO XRAY A108					0.2	0.7	CO SIM ROOM A120	1	20	48
49	20	1	CO SURGERY A106	0.4	0.2					CO LPN/CNA CLASSROOM A126	1	20	50
51	20	1	PWR SURGERY A106			0.5	0.5			LPN/CNA CLASSROOM A126	1	20	52
53	20	1	PWR TOILET A113					0.2	1.4	CO LPN/CNA CLASSROOM A126	1	20	54
55	30	2	PWR: DRYER	2.5	0.5					CO LPN/CNA CLASSROOM A126	1	20	56
57	--	--	--			2.5	1.4			CO LPN/CNA CLASSROOM A126	1	20	58
59	20	1	CO LAUNDRY A114					0.2	0.7	CO LPN/CNA CLASSROOM A126	1	20	60
61	20	1	CO LAUNDRY A114	0.2	0.8					PWR: PROJECTOR	1	20	62
63	20	1	CO LAUNDRY A114			0.2	0.7			CO RN CLASSROOM A127	1	20	64
65	20	1	CO CORRIDOR A100					0.5	0.8	PWR: PROJECTOR	1	20	66
67	20	1	CO OFFICE A110	0.9	1.4					CO RN CLASSROOM A127	1	20	68
69	20	1	CO OFFICE A111			0.9	0.5			CO	1	20	70
71	20	1	CO OFFICE A112					0.9	1.4	CO RN CLASSROOM A127	1	20	72
73	20	1	PWR	0.4	0.2					PWR RN CLASSROOM A127	1	20	74
75	20	1	OFFICE A116			0.9	0.0			SPARE	1	20	76
77	15	1	PWR FC-1					0.7	0.0	SPARE	1	20	78
79	20	1	SPARE	0.0	0.0					SPARE	1	20	80
81	20	1	SPARE			0.0	0.0			SPARE	1	20	82
83	20	1	SPARE					0.0	0.0	SPARE	1	20	84

TOTALS: CONNECTED kVA PER PHASE 18 | 21 | 18 — CONNECTED TOTAL kVA 57
CONNECTED AMPS PER PHASE 150 | 174 | 152 — CONNECTED AVERAGE AMPS PER PHASE 159

NEC DIVERSIFIED LOAD CALCULATIONS

LIGHTING — ALL OTHER LOADS @100%= **18.5 kVA** — DIVERSIFIED TOTAL kVA **43**
RECEPTACLES **39 kVA @63% =24 kVA** — TOTAL MOTOR DEMAND= — AVERAGE AMPS PER **119**

Notes:

PANEL "1LB3"

VOLTS/PHASE/WIRE:	PANEL SIZE & TYPE:	MAIN SIZE AND TYPE:	LOCATION:	CABINET:	NOTES:
120/208V, 3 PH 4 WIRE	22" W x 6" D, BOLT-ON	225 AMPERE MAIN LUGS	ELECTRICAL A121	SURFACE	

ACCESSORIES: PANEL DIRECTORY, IDENTIFICATION, GROUNDING BAR

CKT NO	AMP	POLE	DESCRIPTION	A	A	B	B	C	C	DESCRIPTION	POLE	AMP	CKT NO
1	30	2	PWR: CU-1	2.3	0.2					PWR: MECH CONTROLS	1	20	2
3	--	--	--			2.3	0.2			PWR: MECH CONTROLS	1	20	4
5	0	1	SPARE					0.0	0.2	PWR: MECH CONTROLS	1	20	6
7	0	1	SPARE	0.0	0.1					PWR: CUH-2	1	15	8
9	0	1	SPARE			0.0	0.2			MTR: EF-2	1	15	10
11	0	1	SPARE					0.0	0.0	POWER FSD B113	1	20	12
13	0	1	SPARE	0.0	0.1					PWR AC-1	2	15	14
15	0	1	SPARE			0.0	0.1			--	--	--	16
17	0	1	SPARE					0.0	0.0	SPARE	1	0	18
19	0	1	SPARE	0.0	0.0					SPARE	1	0	20
21	0	1	SPARE			0.0	0.0			SPARE	1	0	22
23	0	1	SPARE					0.0	0.0	SPARE	1	0	24
25	0	1	SPARE	0.0	0.0					SPARE	1	0	26
27	0	1	SPARE			0.0	0.0			SPARE	1	0	28
29	0	1	SPARE					0.0	0.0	SPARE	1	0	30
31	0	1	SPARE	0.0	0.0					SPARE	1	0	32
33	0	1	SPARE			0.0	0.0			SPARE	1	0	34
35	0	1	SPARE					0.0	0.0	SPARE	1	0	36
37	0	1	SPARE	0.0	0.0					SPARE	1	0	38
39	0	1	SPARE			0.0	0.0			SPARE	1	0	40
41	0	1	SPARE					0.0	0.0	SPARE	1	0	42

TOTALS: CONNECTED kVA PER PHASE 3 | 3 | 0 — CONNECTED TOTAL kVA 6
CONNECTED AMPS PER PHASE 26 | 26 | 2 — CONNECTED AVERAGE AMPS PER PHASE 16

NEC DIVERSIFIED LOAD CALCULATIONS

LIGHTING — ALL OTHER LOADS @100%= **5.5 kVA** — DIVERSIFIED TOTAL kVA **6**
RECEPTACLES — TOTAL MOTOR DEMAND= **0.3 kVA** — AVERAGE AMPS PER **16**

Notes:

PANEL "1LBK"

VOLTS/PHASE/WIRE:	PANEL SIZE & TYPE:	MAIN SIZE AND TYPE:	LOCATION:	CABINET:	NOTES:
120/208V, 3 PH 4 WIRE	22" W x 6" D, BOLT-ON	225 AMPERE MAIN LUGS	KITCHEN STORAGE B107	SURFACE	

ACCESSORIES: PANEL DIRECTORY, IDENTIFICATION, GROUNDING BAR

CKT NO	AMP	POLE	DESCRIPTION	A	A	B	B	C	C	DESCRIPTION	POLE	AMP	CKT NO
1	50	2	#K16 : RANGE CONVECTION OVEN	4.0	1.2					#K39 : SLICER	1	20	2
3	--	--	--			4.0	0.8			#K36 : WORK TABLE	1	20	4
5	20	2	#K29A : WALK—IN FREEZER REF: CONDENSER					0.7	1.4	#K7 : ICE MAKER	1	20	6
7	--	--	--	0.7	0.2					— : BASE COMPUTER	1	20	8
9	20	2	#K29B : WALK—IN FREEZER REF: BLOWER COILS			0.2	0.4			#K27 :WALK—IN FREEZER: LIGHTS AND HEATER	1	20	10
11	--	--	--					0.2	0.5	#K28B : WALK—IN COOLER REF: BLOWER COILS	1	20	12
13	20	2	#K29B : WALK—IN FREEZER REF: DEFROST HTR	0.9	0.5					#K27 : WALK—IN COOLER: LIGHTS AND HEATER	1	20	14
15	--	--	--			0.9	0.2			#K11 : WORK COUNTER	1	20	16
17	20	3	#K28A : WALK—IN COOLER REF: CONDENSER					1.4	0.6	#K14 :EXHAUST HOOD	1	20	18
19	--	--	--	1.4	0.1					#K15 :GAS SHUT OFF VALVE	1	20	20
21	--	--	--			1.4	1.8			#K14 : EXHAUST HOOD: HEAT SENSOR	1	20	22
23	20	2	#K25 : ROTARY TOASTER					1.4	1.1	#K16 : RANGE CONVECTION OVEN	1	20	24
25	--	--	--	1.4	1.0					#K17 : REFRIGERATED GRILL STAND	1	20	26
27	20	2	#K34 : HOT FOOD WARMER			1.7	0.1			#K19 : FLAT TOP GRIDDLE	1	20	28
29	--	--	--					1.7	0.1	#K21 : SALAMANDER BROILER	1	20	30
31	20	2	#K35 : PANI NI GRILL	3.4	0.1					#K22 : OPEN FACE GRIDDLE	1	20	32
33	--	--	--			3.4	0.2			#K23 : WORK COUNTER	1	20	34
35	50	2	#K45 : ESPRESSO MACHINE					1.4	1.1	#K32 : REFRIGERATED COUNTER	1	20	36
37	--	--	--	1.4	0.2					#K33 : WORK COUNTER	1	20	38
39	20	2	#K46 : SOUP WARMER			1.8	0.2			#E2 : POS PRINTER	1	20	40
41	--	--	--					1.8	0.4	#K54 : SODA AND ICE DISPENSER	1	20	42
43	30	2	#K52 : REFRIGERATED DISPLAY CABINET	1.3	0.5					#K44 : REFRIGERATED BASE	1	20	44
45	--	--	--			1.3	0.2			#K41 : WORK COUNTER	1	20	46
47	20	2	#K55 : ICE MAKER					3.8	0.2	#K41 : WORK COUNTER	1	20	48
49	--	--	--	3.8	0.2					#E2 : POS PRINTER	1	20	50
51	50	2	#K56 : COFFEE BREWER			0.9	0.9			#K51 : MERCHANDISING REFRIGERATOR	1	20	52
53	--	--	--					0.9	0.2	#E1 : POS REGISTER	1	20	54
55	20	2	#K24 : MICROWAVE OVEN	0.9	0.2					#MW1 : SERVICE COUNTER	1	20	56
57	--	--	--			0.9	1.2			#K54A : SODA SYSTEM RACK	1	20	58
59	20	1	SPARE					0.0	1.7	#K57 : ICE TEA DISPENSER	1	20	60
61	20	1	SPARE	0.0	0.2					#MW2 : SERVICE COUNTER	1	20	62
63	20	1	SPARE			0.0	0.2			#MW2 : SERVICE COUNTER	1	20	64
65	20	1	SPARE					0.0	0.0	SPARE	1	20	66
67	20	1	SPARE	0.0	0.0					SPARE	1	20	68
69	20	1	SPARE			0.0	0.0			SPARE	1	20	70
71	20	1	SPARE					0.0	0.0	SPARE	1	20	72

TOTALS: CONNECTED kVA PER PHASE 24 | 23 | 21 — CONNECTED TOTAL kVA 67
CONNECTED AMPS PER PHASE 199 | 191 | 172 — CONNECTED AVERAGE AMPS PER PHASE 185

NEC DIVERSIFIED LOAD CALCULATIONS

LIGHTING — ALL OTHER LOADS @100%= **66.8 kVA** — DIVERSIFIED TOTAL kVA **67**
RECEPTACLES — TOTAL MOTOR DEMAND= — AVERAGE AMPS PER **185**

Notes:

PANEL "1QHB"

VOLTS/PHASE/WIRE:	PANEL SIZE & TYPE:	MAIN SIZE AND TYPE:	LOCATION:	CABINET:	NOTES:
480/277 V, 3 PH 4 WIRE	22" W x 6" D, BOLT-ON	100 AMPERE MAIN LUGS	ELECTRICAL A121	SURFACE	

ACCESSORIES: PANEL DIRECTORY, IDENTIFICATION, GROUNDING BAR

CKT NO	AMP	POLE	DESCRIPTION	A	A	B	B	C	C	DESCRIPTION	POLE	AMP	CKT NO
1	100	3	PANELS "1QLB" and "2QLB"	20.4	0.0					SPARE	1	0	2
3	--	--	--			18.2	0.0			SPARE	1	0	4
5	--	--	--					15.8	0.0	SPARE	1	0	6
7	0	1	SPARE	0.0	0.0					SPARE	1	0	8
9	0	1	SPARE			0.0	0.0			SPARE	1	0	10
11	0	1	SPARE					0.0	0.0	SPARE	1	0	12
13	0	1	SPARE	0.0	0.0					SPARE	1	0	14
15	0	1	SPARE			0.0	0.0			SPARE	1	0	16
17	0	1	SPARE					0.0	0.0	SPARE	1	0	18
19	0	1	SPARE	0.0	0.0					SPARE	1	0	20
21	0	1	SPARE			0.0	0.0			SPARE	1	0	22
23	0	1	SPARE					0.0	0.0	SPARE	1	0	24
25	0	1	SPARE	0.0	0.0					SPARE	1	0	26
27	0	1	SPARE			0.0	0.0			SPARE	1	0	28
29	0	1	SPARE					0.0	0.0	SPARE	1	0	30
31	0	1	SPARE	0.0	0.0					SPARE	1	0	32
33	0	1	SPARE			0.0	0.0			SPARE	1	0	34
35	0	1	SPARE					0.0	0.0	SPARE	1	0	36
37	0	1	SPARE	0.0	0.0					SPARE	1	0	38
39							0.0			SPARE	1	0	40
41									0.0	SPARE	1	0	42

TOTALS: CONNECTED kVA PER PHASE 20 | 18 | 16 — CONNECTED TOTAL kVA 54
CONNECTED AMPS PER PHASE 75 | 67 | 57 — CONNECTED AVERAGE AMPS PER PHASE 66

NEC DIVERSIFIED LOAD CALCULATIONS

LIGHTING — ALL OTHER LOADS @100%= **50.6 kVA** — DIVERSIFIED TOTAL kVA **54**
RECEPTACLES **4 kVA @100% =4 kVA** — TOTAL MOTOR DEMAND= — AVERAGE AMPS PER **65**

Notes:

PANEL "1QLB"

VOLTS/PHASE/WIRE:	PANEL SIZE & TYPE:	MAIN SIZE AND TYPE:	LOCATION:	CABINET:	NOTES:
120/208V, 3 PH 4 WIRE	22" W x 6" D, BOLT-ON	225 AMPERE MAIN LUGS	ELECTRICAL A121	SURFACE	

ACCESSORIES: PANEL DIRECTORY, IDENTIFICATION, GROUNDING BAR

CKT NO	AMP	POLE	DESCRIPTION	A	A	B	B	C	C	DESCRIPTION	POLE	AMP	CKT NO
1	20	1	PWR; MINI FRIDGE	0.5	0.0					SPARE	1	0	2
3	0	1	SPARE			0.0	0.0			SPARE	1	0	4
5	0	1	SPARE					0.0	0.0	SPARE	1	0	6
7	0	1	SPARE	0.0	0.0					SPARE	1	0	8
9	0	1	SPARE			0.0	0.0			SPARE	1	0	10
11	0	1	SPARE					0.0	0.0	SPARE	1	0	12
13	0	1	SPARE	0.0	0.0					SPARE	1	0	14
15	0	1	SPARE			0.0	0.0			SPARE	1	0	16
17	0	1	SPARE					0.0	0.0	SPARE	1	0	18
19	0	1	SPARE	0.0	0.0					SPARE	1	0	20
21	0	1	SPARE			0.0	0.0			SPARE	1	0	22
23	0	1	SPARE					0.0	0.0	SPARE	1	0	24
25	0	1	SPARE	0.0	0.0					SPARE	1	0	26
27	0	1	SPARE			0.0	0.0			SPARE	1	0	28
29	0	1	SPARE					0.0	0.0	SPARE	1	0	30
31	0	1	SPARE	0.0	0.0					SPARE	1	0	32
33	0	1	SPARE			0.0	0.0			SPARE	1	0	34
35	0	1	SPARE					0.0	0.0	SPARE	1	0	36
37	0	1	SPARE	0.0	0.0					SPARE	1	0	38
39	0	1	SPARE			0.0	0.0			SPARE	1	0	40
41	0	1	SPARE					0.0	0.0	SPARE	1	0	42

TOTALS: CONNECTED kVA PER PHASE 20 | 18 | 16 — CONNECTED TOTAL kVA 54
CONNECTED AMPS PER PHASE 174 | 155 | 131 — CONNECTED AVERAGE AMPS PER PHASE 151

NEC DIVERSIFIED LOAD CALCULATIONS

LIGHTING — ALL OTHER LOADS @100%= **50.6 kVA** — DIVERSIFIED TOTAL kVA **54**
RECEPTACLES **4 kVA @100% =4 kVA** — TOTAL MOTOR DEMAND= — AVERAGE AMPS PER **151**

Notes:

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01/18/2012

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project:
TOOELE APPLIED TECHNOLOGY COLLEGE - NEW BUILDING

88 South Tooele Blvd
Tooele, UT 84074

project#: 11.0420
date: 1/20/11

revisions :

Panel Schedules

sheet:

EP608

100% Construction Documents

PANEL "2HB1"

VOLTS/PHASE/WIRE:	PANEL SIZE & TYPE:	MAIN SIZE AND TYPE:	LOCATION:	CABINET:	NOTES:
480/277 V, 3 PH 4 WIRE	22" W x 6" D, BOLT-ON	100 AMPERE MAIN LUGS	ELECTRICAL B217	SURFACE	

ACCESSORIES: PANEL DIRECTORY, IDENTIFICATION, GROUNDING BAR

CKT NO	AMP	POLE	DESCRIPTION	A	A	B	B	C	C	DESCRIPTION	POLE	AMP	CKT NO
1	0	1	SPARE	0.0	0.0					SPARE	1	0	2
3	0	1	SPARE			0.0	0.0			SPARE	1	0	4
5	0	1	SPARE					0.0	0.0	SPARE	1	0	6
7	0	1	SPARE	0.0	0.0					SPARE	1	0	8
9	0	1	SPARE			0.0	0.0			SPARE	1	0	10
11	0	1	SPARE					0.0	0.0	SPARE	1	0	12
13	0	1	SPARE	0.0	0.0					SPARE	1	0	14
15	0	1	SPARE			0.0	0.0			SPARE	1	0	16
17	0	1	SPARE					0.0	0.0	SPARE	1	0	18
19	0	1	SPARE	0.0	0.0					SPARE	1	0	20
21	0	1	SPARE			0.0	0.0			SPARE	1	0	22
23	0	1	SPARE					0.0	0.0	SPARE	1	0	24
25	0	1	SPARE	0.0	0.0					SPARE	1	0	26
27	0	1	SPARE			0.0	0.0			SPARE	1	0	28
29	0	1	SPARE					0.0	0.0	SPARE	1	0	30
31	0	1	SPARE	0.0	0.0					SPARE	1	0	32
33	0	1	SPARE			0.0	0.0			SPARE	1	0	34
35	0	1	SPARE					0.0	0.0	SPARE	1	0	36
37	0	1	SPARE	0.0	0.0					SPARE	1	0	38
39	0	1	SPARE			0.0	0.0			SPARE	1	0	40
41	0	1	SPARE					0.0	0.0	SPARE	1	0	42
TOTALS:			CONNECTED kVA PER PHASE	**0**		**0**		**0**		CONNECTED TOTAL kVA		**0**	
			CONNECTED AMPS PER PHASE	**0**		**0**		**0**		CONNECTED AVERAGE AMPS PER PHASE		**0**	

NEC DIVERSIFIED LOAD CALCULATIONS

LIGHTING — ALL OTHER LOADS @100%= — DIVERSIFIED TOTAL kVA **0**

RECEPTACLES — TOTAL MOTOR DEMAND= — AVERAGE AMPS PER **0**

Notes:

PANEL "2LB1"

VOLTS/PHASE/WIRE:	PANEL SIZE & TYPE:	MAIN SIZE AND TYPE:	LOCATION:	CABINET:	NOTES:
120/208V, 3 PH 4 WIRE	22" W x 6" D, BOLT-ON	225 AMPERE MAIN LUGS	ELECTRICAL B217	SURFACE	

ACCESSORIES: PANEL DIRECTORY, IDENTIFICATION, GROUNDING BAR

CKT NO	AMP	POLE	DESCRIPTION	A	A	B	B	C	C	DESCRIPTION	POLE	AMP	CKT NO
1	20	1	CO CORRIDOR A200	1.0	0.4					CO Room B221, B222	1	20	2
3	20	1	CO RECEPTION / WAITING-2 B223-2			0.7	1.0			PWR Room B219	1	20	4
5	20	1	CO PRESIDENT ASSISTANT B213					0.7	1.3	CO OPEN OFFICE 2-3 PPL B216	1	20	6
7	20	1	CO	1.1	0.7					CO Room B220, B200, A200, B218	1	20	8
9	20	1	CO EXECUTIVE CONFERENCE ROOM B211			0.7	0.9			CO Room B215, B216, B200	1	20	10
11	20	1	CO EXECUTIVE CONFERENCE ROOM B211					0.5	0.2	CO MARKETING / OFFICE B214	1	20	12
13	20	1	PWR EXECUTIVE CONFERENCE ROOM B211	0.5	0.7					CO CORRIDOR A200	1	20	14
15	20	1	CO HUMAN RESOURCES B210			0.7	0.2			CO	1	20	16
17	20	1	CO Room B209					0.7	0.2	CO	1	20	18
19	20	1	CO Room B208	0.7	0.7					CO MARKETING / OFFICE B214	1	20	20
21	20	1	CO Room B207			0.7	0.4			CO MARKETING / OFFICE B214	1	20	22
23	20	1	CO Room B206					0.7	0.4	CO MARKETING / OFFICE B214	1	20	24
25	20	1	CO DIRECTOR B205	0.7	0.2					CO KITCHEN B225	1	20	26
27	20	1	CO VP INSTRUCTION OFFICE B204			1.2	0.2			PWR KITCHEN B225	1	20	28
29	20	1	CO ASSISTANT B203					0.7	0.2	PWR KITCHEN B225	1	20	30
31	20	1	CO CURRICULUM DEVELOPER B202	0.9	1.2					PWR KITCHEN B225	1	20	32
33	20	1	CO DIRECTOR B201			0.7	1.0			KITCHEN B225	1	20	34
35	20	1	CO Room B223-2, B223-1					1.0	0.2	CO KITCHEN B225	1	20	36
37	20	1	CO RECEPTION / WAITING-2 B223-2	1.0	0.2					CO KITCHEN B225	1	20	38
39	20	1	CO Room B223-1, B223-2			0.5	0.2			CO KITCHEN B225	1	20	40
41	20	1	CO Room B224					0.9	0.2	CO KITCHEN B225	1	20	42
43	20	1	CO WELLNESS B233	0.7	0.4					KITCHEN B225	1	20	44
45	20	1	Room B224			0.9	0.4			CO FACULTY/ BREAK B227	1	20	46
47	20	1	CO BOARDROOM B224					0.5	0.5	CO Room B227, B226	1	20	48
49	20	1	PWR	0.8	0.4					CO WORKROOM B226	1	20	50
51	20	1	CO FACULTY/ BREAK B227			0.5	0.4			CO WORKROOM B226	1	20	52
53	20	1	PWR FACULTY/ BREAK B227					0.8	1.0	PWR WORKROOM B226	1	20	54
55	20	1	CO EXERCISE B232	0.2	0.4					CO Room B228, B229	1	20	56
57	20	1	PWR EXERCISE B232			0.8	0.4			CO	1	20	58
59	20	1	CO EXERCISE B232					0.2	2.2	PWR: CU-2	2	30	60
61	20	1	PWR: DF Room B232	1.0	2.2					--	--	--	62
63	20	1	CO EXERCISE B232			0.2	1.2			PWR: EF-14	1	20	64
65	20	1	PWR EXERCISE B232					1.0	0.6	FSD B219	1	20	66
67	20	1	PWR EXERCISE B232	1.0	0.0					POWER FSD B106	1	20	68
69	20	1	PWR EXERCISE B232			1.0	0.7			CO ROOF	1	20	70
71	15	2	PWR AC-2					0.1	0.4	CO ROOF	1	20	72
73	--	--	--	0.1	0.1					PWR AC-4	2	15	74
75	15	2	PWR VRV-15-23			1.0	0.1			--	--	--	76
77	--	--	--					1.0	0.5	PWR HVAC CONTROLS	1	20	78
79	15	2	PWR BS-4-6	0.2	0.5					PWR HVAC CONTROLS	1	20	80
81	--	--	--			0.2	0.5			PWR HVAC CONTROLS	1	20	82
83	20	1	PWR HVAC CONTROLS					1.0	0.5	PWR HVAC CONTROLS	1	20	84
TOTALS:			CONNECTED kVA PER PHASE	**18**		**17**		**18**		CONNECTED TOTAL kVA		**53**	
			CONNECTED AMPS PER PHASE	**150**		**144**		**151**		CONNECTED AVERAGE AMPS PER PHASE		**148**	

NEC DIVERSIFIED LOAD CALCULATIONS

LIGHTING **0kVA @ Not Computed = 0kVA** — ALL OTHER LOADS @100%= **21.6 kVA** — DIVERSIFIED TOTAL kVA **44**

RECEPTACLES **29 kVA @67% =19 kVA** — TOTAL MOTOR DEMAND= **1.5 kVA** — AVERAGE AMPS PER **123**

Notes:

PANEL "2LB2"

VOLTS/PHASE/WIRE:	PANEL SIZE & TYPE:	MAIN SIZE AND TYPE:	LOCATION:	CABINET:	NOTES:
120/208V, 3 PH 4 WIRE	22" W x 6" D, BOLT-ON	225 AMPERE MAIN LUGS	ELECTRICAL B217	SURFACE	

ACCESSORIES: PANEL DIRECTORY, IDENTIFICATION, GROUNDING BAR

CKT NO	AMP	POLE	DESCRIPTION	A	A	B	B	C	C	DESCRIPTION	POLE	AMP	CKT NO
1	20	1	CO Room A201	0.7	0.7					Room A204	1	20	2
3	20	1	CO BT LAB A201			0.2	0.5			CO ROOF	1	20	4
5	20	1	CO BT LAB A201					0.4	0.5	CO USU CLASSROOM A205	1	20	6
7	20	1	CO TESTING A202	0.4	0.4					CO USU CLASSROOM A205	1	20	8
9	20	1	CO TESTING A202			0.4	0.4			PWR USU CLASSROOM A205	1	20	10
11	20	1	CO TESTING A202					0.4	0.8	CO USU CLASSROOM A205	1	20	12
13	20	1	CO TESTING A202	0.2	0.7					CO USU CLASSROOM A205	1	20	14
15	20	1	CO Room A201			0.5	0.4			CO USU CLASSROOM A205	1	20	16
17	20	1	Power BT LAB A201					0.5	0.4	CO USU CLASSROOM A205	1	20	18
19	20	1	Power BT LAB A201	0.5	0.4					CO USU CLASSROOM A205	1	20	20
21	20	1	Power BT LAB A201			0.5	0.4			CO USU CLASSROOM A205	1	20	22
23	20	1	Power BT LAB A201					0.5	0.7	CO IT OFFICE A206	1	20	24
25	20	1	Power BT LAB A201	0.5	0.5					CO CORRIDOR A200	1	20	26
27	20	1	Power BT LAB A201			0.5	0.5			CO Room A207	1	20	28
29	20	1	CO BT LAB A201					0.4	0.4	CO IT CLASSROOM A207	1	20	30
31	20	1	CO BT LAB A201	1.0	0.4					CO IT CLASSROOM A207	1	20	32
33	20	1	CO USU CLASSROOM A204			0.7	0.4			CO IT CLASSROOM A207	1	20	34
35	20	1	CO USU CLASSROOM A204					0.8	0.4	CO IT CLASSROOM A207	1	20	36
37	20	1	CO USU CLASSROOM A204	0.4	0.4					CO IT CLASSROOM A207	1	20	38
39	20	1	CO USU CLASSROOM A204			0.4	0.4			CO IT CLASSROOM A207	1	20	40
41	20	1	CO USU CLASSROOM A204					0.4	0.5	CO IT CLASSROOM A207	1	20	42
43	20	1	CO USU CLASSROOM A204	0.4	0.4					CO IT CLASSROOM A207	1	20	44
45	20	1	CO USU CLASSROOM A204			0.4	0.5			CO IT TESTING A208	1	20	46
47	20	1	CO USU CLASSROOM A204					0.4	0.4	CO IT TESTING A208	1	20	48
49	20	1	Power USU CLASSROOM A204	0.5	0.9					CO IT TESTING A208	1	20	50
51	20	1	PWR HVAC CONTROLS			0.5	0.4			PWR Room A209	1	20	52
53	20	1	CO BT OFFICE A203					0.9	0.5	PWR IT LAB A209	1	20	54
55	20	1	CO CORRIDOR A200	0.5	0.7					CO IT ADMIN A211	1	20	56
57	20	1	CO IT CLASSROOM A207			0.8	1.3			CO IT ASSISTANT A212	1	20	58
59	20	1	Room A205					0.5	0.8	PWR	1	20	60
61	20	1	CO BT LAB A201	0.4	0.5					CO CDL CLASSROOM C201	1	20	62
63	30	2	PWR: CU-4			2.3	0.4			CO CDL CLASSROOM C201	1	20	64
65	--	--	--					2.3	0.4	CO CDL CLASSROOM C201	1	20	66
67	20	1	PWR HVAC CONTROLS A205	0.5	0.7					CO CDL CLASSROOM C201	1	20	68
69	20	1	PWR HVAC CONTROLS			0.5	0.7			CO CDL CLASSROOM C201	1	20	70
71	20	1	PWR HVAC CONTROLS					0.5	0.4	PWR CDL CLASSROOM C201	1	20	72
73	0	1	SPARE	0.0	0.4					CO	1	20	74
75	0	1	SPARE			0.0	0.9			CO IT ADMIN A211	1	20	76
77	0	1	SPARE					0.0	0.7	PWR IT LAB A209	1	20	78
79	0	1	SPARE	0.0	0.0					SPARE	1	20	80
81	0	1	SPARE			0.0	0.0			SPARE	1	20	82
83	0	1	SPARE					0.0	0.0	SPARE	1	20	84
TOTALS:			CONNECTED kVA PER PHASE	**13**		**15**		**15**		CONNECTED TOTAL kVA		**43**	
			CONNECTED AMPS PER PHASE	**109**		**126**		**125**		CONNECTED AVERAGE AMPS PER PHASE		**118**	

NEC DIVERSIFIED LOAD CALCULATIONS

LIGHTING — ALL OTHER LOADS @100%= **11.5 kVA** — DIVERSIFIED TOTAL kVA **32**

RECEPTACLES **31 kVA @66% =20 kVA** — TOTAL MOTOR DEMAND= — AVERAGE AMPS PER **90**

Notes:

PANEL "2QLB"

VOLTS/PHASE/WIRE:	PANEL SIZE & TYPE:	MAIN SIZE AND TYPE:	LOCATION:	CABINET:	NOTES:
120/208V, 3 PH 4 WIRE	22" W x 6" D, BOLT-ON	225 AMPERE MAIN LUGS	ELECTRICAL B217	SURFACE	

ACCESSORIES: PANEL DIRECTORY, IDENTIFICATION, GROUNDING BAR

CKT NO	AMP	POLE	DESCRIPTION	A	A	B	B	C	C	DESCRIPTION	POLE	AMP	CKT NO
1	20	1	CO KITCHEN B225	1.0	1.5					PWR SERVER / IT STORAGE A210	2	30	2
3	20	1	CO KITCHEN B225			1.0	1.5			--	--	--	4
5	20	1	CO KITCHEN B225					1.0	1.2	PWR SERVER / IT STORAGE A210	1	20	6
7	20	1	CO SERVER / IT STORAGE A210	0.7	1.5					PWR SERVER / IT STORAGE A210	2	30	8
9	20	1	CO SERVER / IT STORAGE A210			0.4	1.5			--	--	--	10
11	20	1	CO SERVER / IT STORAGE A210					0.4	1.2	PWR SERVER / IT STORAGE A210	1	20	12
13	20	1	CO SERVER / IT STORAGE A210	0.7	1.5					PWR SERVER / IT STORAGE A210	2	30	14
15	20	1	CO SERVER / IT STORAGE A210			0.9	1.5			--	--	--	16
17	20	1	CO IT WORKROOM C204					0.7	1.2	PWR SERVER / IT STORAGE A210	1	20	18
19	20	1	PWR IT WORKROOM C204	1.2	1.5					PWR SERVER / IT STORAGE A210	2	30	20
21	30	2	PWR IT WORKROOM C204			1.5	1.5			--	--	--	22
23	--	--	--					1.5	1.2	PWR SERVER / IT STORAGE A210	1	20	24
25	20	1	PWR IT WORKROOM C204	1.2	1.5					PWR SERVER / IT STORAGE A210	2	30	26
27	30	2	PWR IT WORKROOM C204			1.5	1.5			--	--	--	28
29	--	--	--					1.5	1.2	PWR SERVER / IT STORAGE A210	1	20	30
31	30	2	PWR: CU-5	2.3	1.5					PWR SERVER / IT STORAGE A210	2	30	32
33	--	--	--			2.3	1.5			--	--	--	34
35	30	2	PWR: CU-6					2.2	1.2	PWR SERVER / IT STORAGE A210	1	20	36
37	--	--	--	2.2	1.5					PWR SERVER / IT STORAGE A210	2	30	38
39	15	2	PWR AC-5			0.1	1.5			--	--	--	40
41	--	--	--					0.1	1.2	PWR SERVER / IT STORAGE A210	1	20	42
43	15	2	PWR AC-6	0.1	0.0					SPARE	1	0	44
45	--	--	--			0.1	0.0			SPARE	1	0	46
47	0	1	SPARE					0.0	0.0	SPARE	1	0	48
49	0	1	SPARE	0.0	0.0					SPARE	1	0	50
51	0	1	SPARE			0.0	0.0			SPARE	1	0	52
53	0	1	SPARE					0.0	0.0	SPARE	1	0	54
55	0	1	SPARE	0.0	0.0					SPARE	1	0	56
57	0	1	SPARE			0.0	0.0			SPARE	1	0	58
59	0	1	SPARE					0.0	0.0	SPARE	1	0	60
61	0	1	SPARE	0.0	0.0					SPARE	1	0	62
63	0	1	SPARE			0.0	0.0			SPARE	1	0	64
65	0	1	SPARE					0.0	0.0	SPARE	1	0	66
67	0	1	SPARE	0.0	0.0					SPARE	1	0	68
69	0	1	SPARE			0.0	0.0			SPARE	1	0	70
71	0	1	SPARE					0.0	0.0	SPARE	1	0	72
73	0	1	SPARE	0.0	0.0					SPARE	1	0	74
75	0	1	SPARE			0.0	0.0			SPARE	1	0	76
77	0	1	SPARE					0.0	0.0	SPARE	1	0	78
79	0	1	SPARE	0.0	0.0					SPARE	1	0	80
81	0	1	SPARE			0.0	0.0			SPARE	1	0	82
83	0	1	SPARE					0.0	0.0	SPARE	1	0	84
TOTALS:			CONNECTED kVA PER PHASE	**20**		**18**		**16**		CONNECTED TOTAL kVA		**54**	
			CONNECTED AMPS PER PHASE	**169**		**155**		**131**		CONNECTED AVERAGE AMPS PER PHASE		**150**	

NEC DIVERSIFIED LOAD CALCULATIONS

LIGHTING — ALL OTHER LOADS @100%= **50.1 kVA** — DIVERSIFIED TOTAL kVA **54**

RECEPTACLES **4 kVA @100% =4 kVA** — TOTAL MOTOR DEMAND= — AVERAGE AMPS PER **150**

Notes:

LICENSED PROFESSIONAL ENGINEER — STATE OF UTAH

01/18/2012

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project:
TOOELE APPLIED TECHNOLOGY COLLEGE - NEW BUILDING

88 South Tooele Blvd
Tooele, UT 84074

project#: 11.0420
date: 1/20/11

revisions :

Panel Schedules

sheet:

EP609

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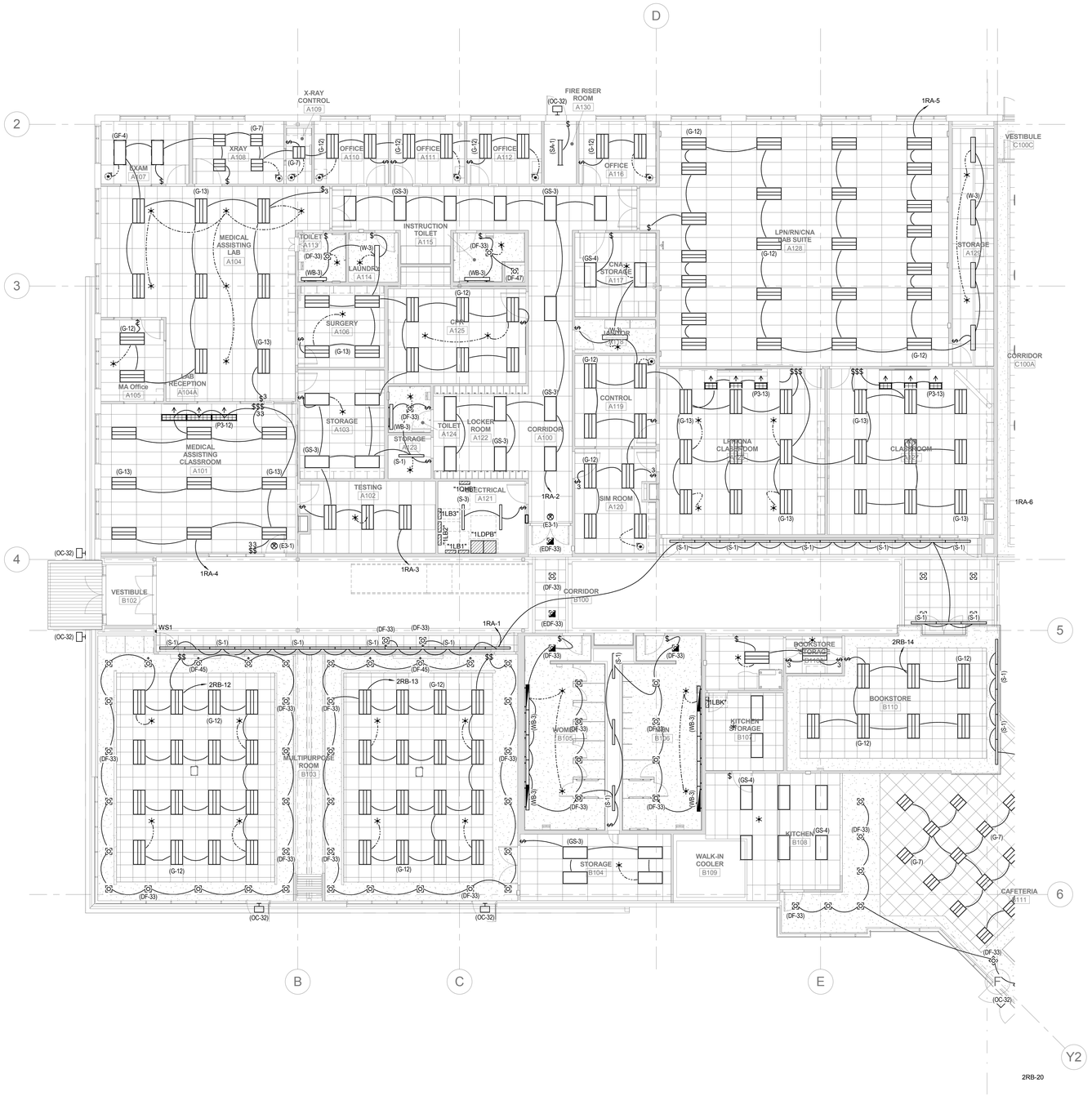
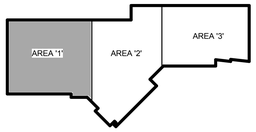


1 LEVEL 1 LIGHTING PLAN - AREA '1'

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

PROJECT NORTH TRUE NORTH



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METHOD STUDIO INC.
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TOOELE APPLIED TECHNOLOGY COLLEGE - NEW BUILDING

88 South Tooele Blvd
Tooele, UT 84074

project#: 11.0420
date: 1/20/11

revisions :

Level 1 Lighting Plan - Area '1'

sheet:

EL111

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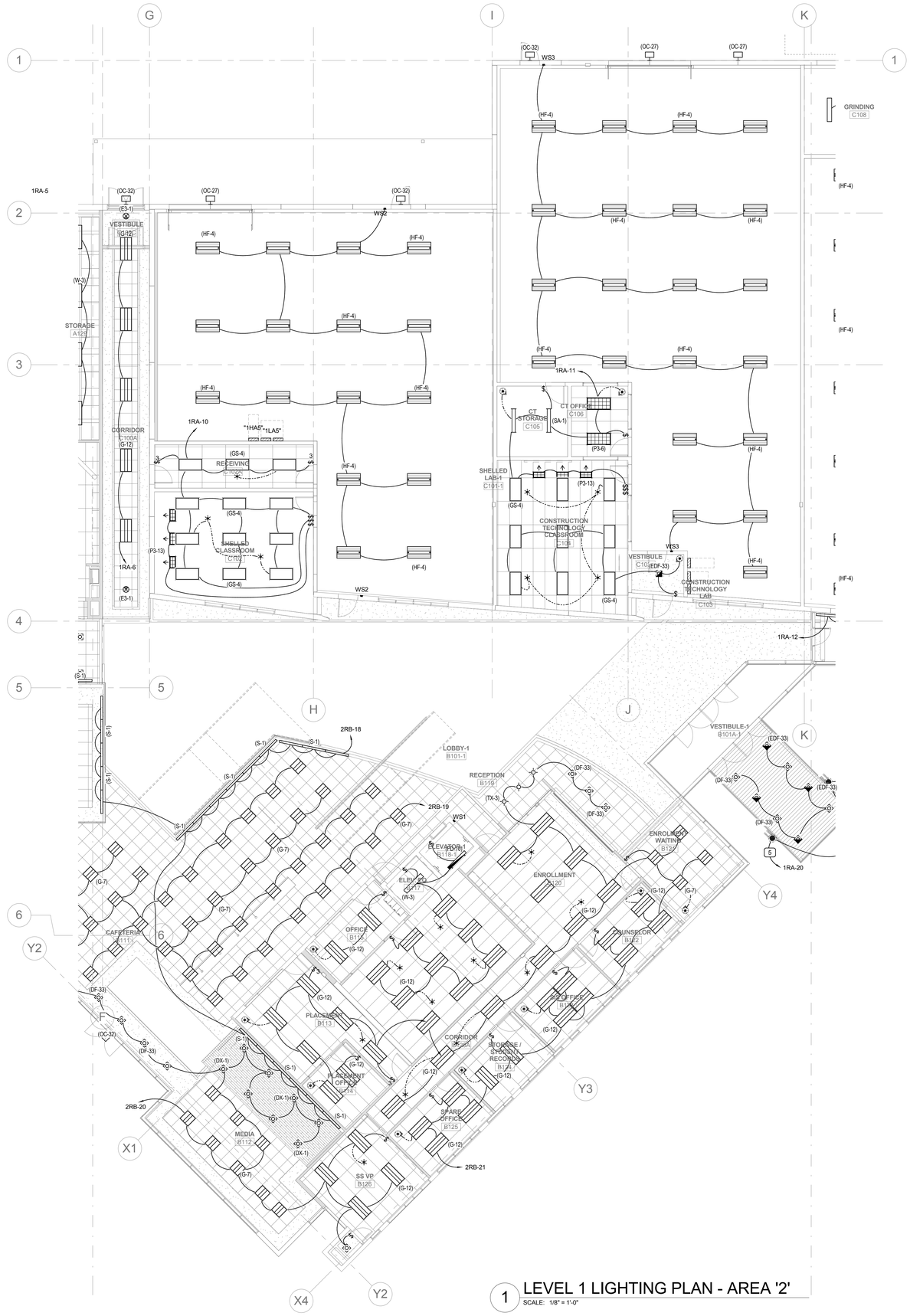
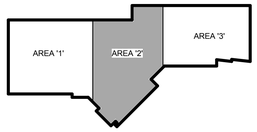


1 LEVEL 1 LIGHTING PLAN - AREA '2'

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

PROJECT NORTH TRUE NORTH



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Level 1 Lighting Plan - Area '2'

sheet:

EL112

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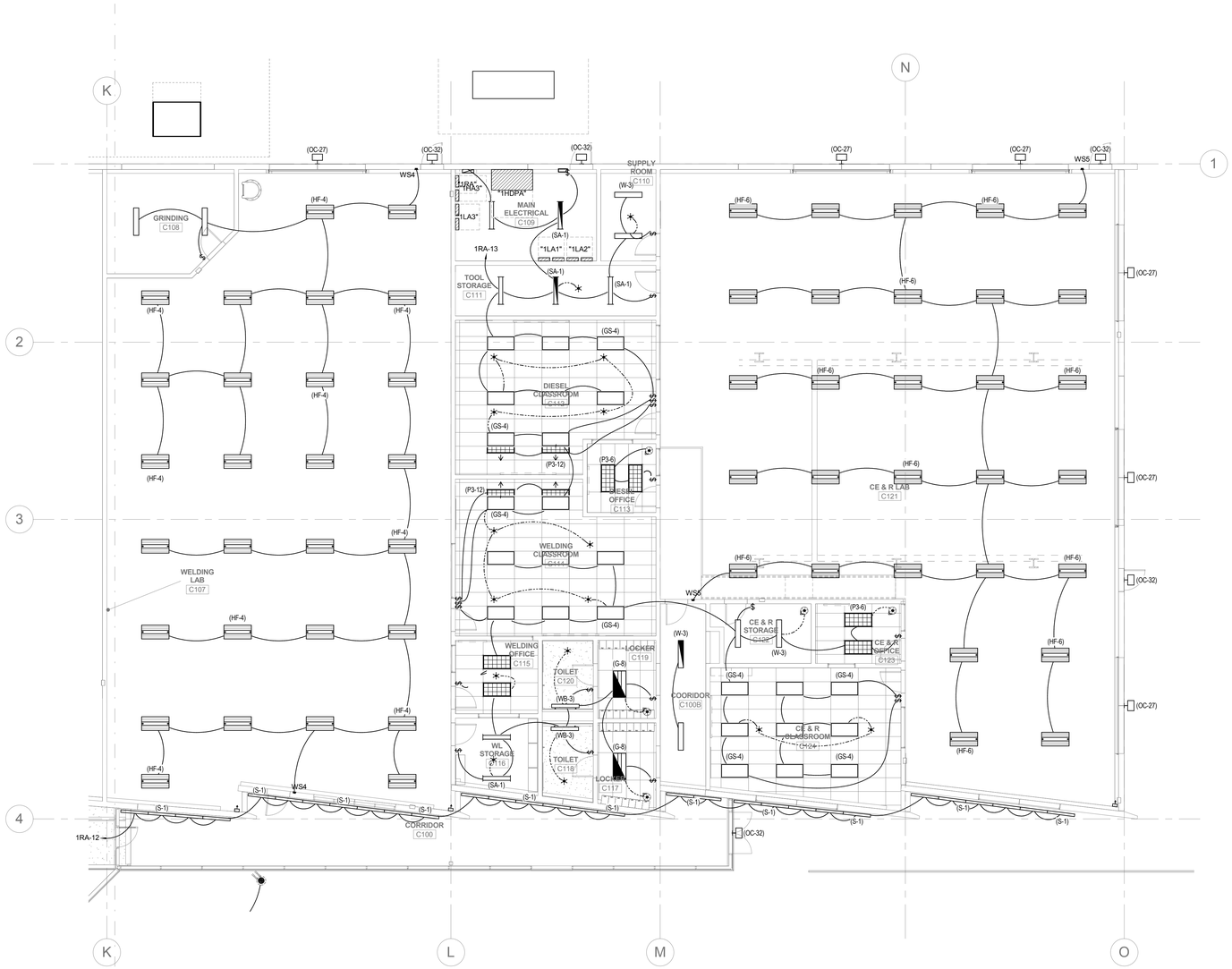
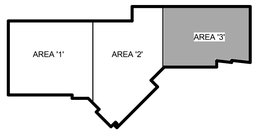


1 LEVEL 1 LIGHTING PLAN - AREA '3'

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

PROJECT NORTH TRUE NORTH



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Level 1 Lighting Plan - Area '3'

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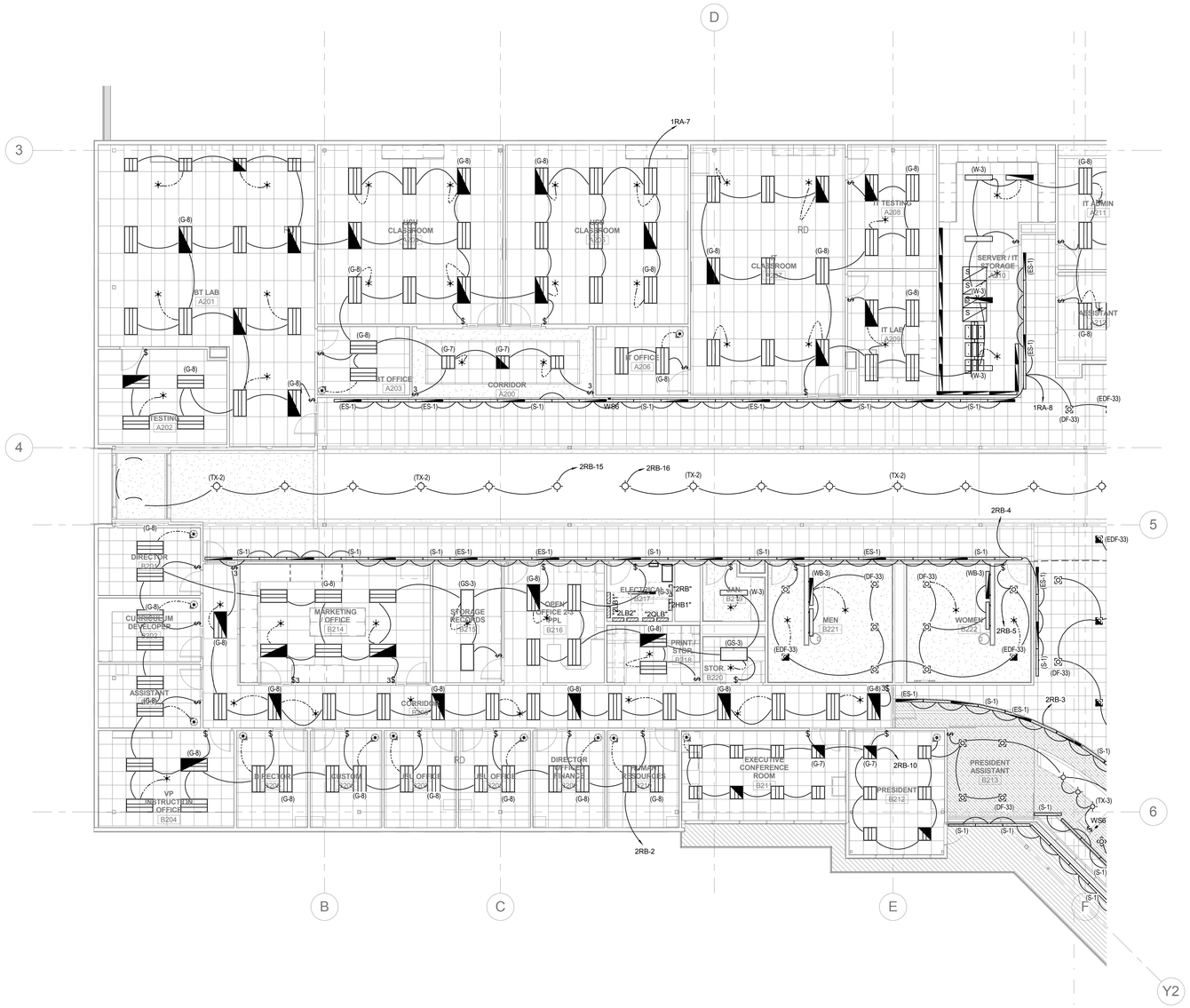
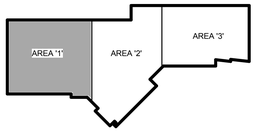


1 LEVEL 2 LIGHTING PLAN - AREA '1'

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

PROJECT NORTH TRUE NORTH



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project#: 11.0420
date: 1/20/11

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Level 2 Lighting Plan - Area '1'

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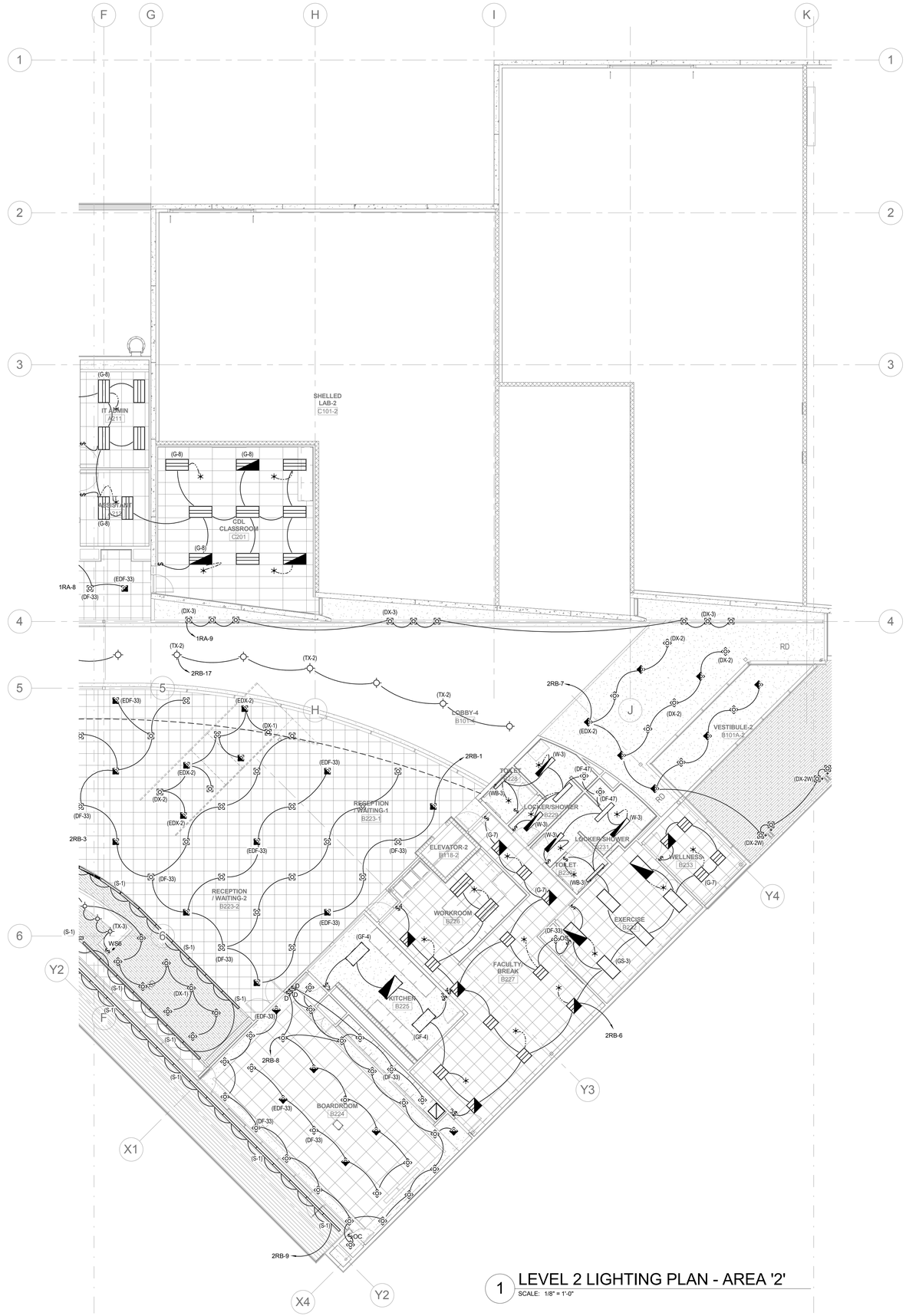
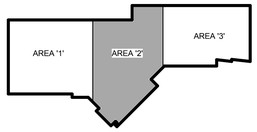


1 LEVEL 2 LIGHTING PLAN - AREA '2'

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



PROJECT NORTH TRUE NORTH

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Level 2 Lighting Plan - Area '2'

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EL122

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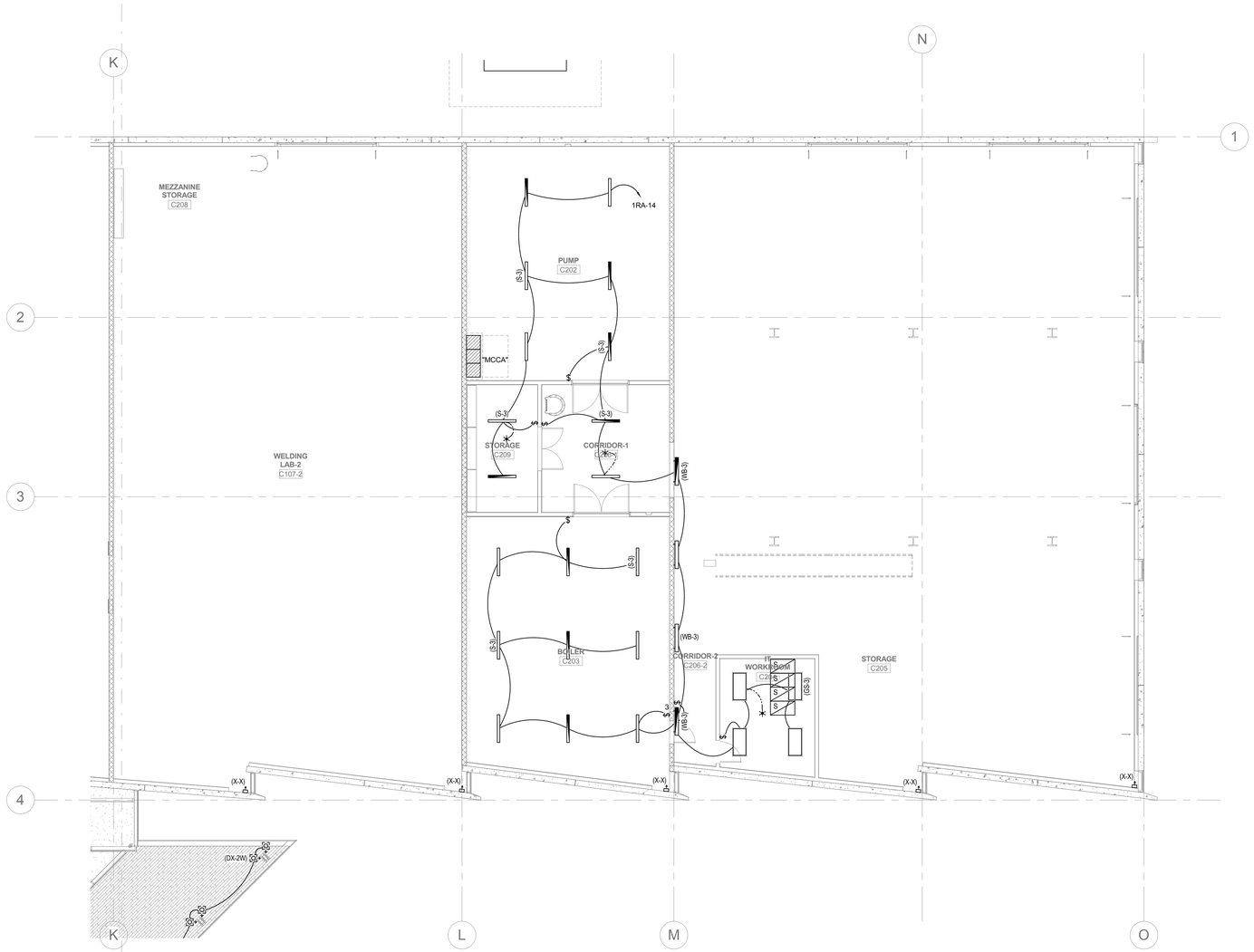
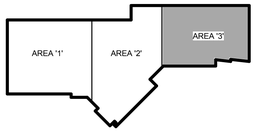


1 LEVEL 2 LIGHTING PLAN - AREA '3'

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

PROJECT NORTH TRUE NORTH



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LIGHTING FIXTURE SCHEDULE

NOTE TO BIDDERS: COMPLY WITH SECTIONS 16511, 16521, AND 16570 OF THE SPECIFICATIONS.
REFER TO SPECIFICATIONS FOR IMPORTANT TECHNICAL REQUIREMENTS FOR LIGHTING FIXTURES, BALLASTS, AND LAMPS. THE CATALOG NUMBERS LISTED BELOW HAVE BEEN CAREFULLY PREPARED TO ASSIST BIDDERS IN SELECTING PRODUCTS TO ACHIEVE THE DESIGN CONCEPT, HOWEVER, PRIOR TO BIDDING, EACH MANUFACTURER SHALL COMPARE THE CATALOG NUMBERS SHOWN WITH THE DESCRIPTION AND REQUIREMENTS ON THE DRAWINGS, AND SHALL NOTIFY THE ARCHITECT/ENGINEER OF ANY DISCREPANCIES. SPECIFICALLY INCLUDED IN THIS EVALUATION SHALL BE THE VERIFYING OF PROPER MOUNTING KITS OR ACCESSORIES TO FACILITATE INSTALLATION AS SHOWN AT EACH LOCATION ON THE DRAWINGS. NO ALLOWANCE OR REDRESS WILL BE ALLOWED FOR DISCREPANCIES THAT WERE NOT REPORTED TO THE ARCHITECT/ENGINEER IN TIME FOR CORRECTION OR CLARIFICATION BEFORE THE BID. THE REPORTING OF ANY AMBIGUITY IS THE RESPONSIBILITY OF THE BIDDER. PROVIDE UNIT PRICES AND FIXTURE BRAND SELECTED FOR ADD/DELETE CHANGES FOR EACH FIXTURE TYPES SHOWN WITHIN 48 BUSINESS HOURS OF THE BID DATE. FAILURE TO COMPLY WITH THIS REQUIREMENT MAY DISQUALIFY THE PRODUCTS AND EMPOWER THE ENGINEER TO DETERMINE FAIR VALUE FOR FIXTURE AND INSTALLATION CHANGES, WITHOUT FURTHER INPUT FROM THE CONTRACTOR OR INSTALLER. SUBMITTAL PACKAGE SHALL INCLUDE LAMP MANUFACTURER AND CATALOG NUMBER ON EACH FIXTURE SHEET. ON ALL PENDANT MOUNTED FIXTURES, PROVIDE A SECOND SET OF PENDANTS, OF A DIFFERENT LENGTH, AS DIRECTED BY THE ARCHITECT/ENGINEER, PROVIDED AND INSTALLED AT NO ADDITIONAL CHARGE. ALL FIXTURES SHALL BE APPROVED BY UL OR ANOTHER ACCEPTABLE TESTING LAB FOR THE PURPOSE INTENDED AND WITH THE LAMP AND BALLAST PROPOSED. CONTRACTOR ALLOWANCE PRICES ARE ACCURATE WHEN THIS JOB WAS SPECIFIED, CONTRACTOR AND ELECTRICAL DISTRIBUTOR SHALL VERIFY THIS ALLOWANCE AND REPORT ANY PROBLEMS TO THE ENGINEER BEFORE THE BID. ALLOWANCE PRICE MAY OR MAY NOT INCLUDE LAMP(S) OR FREIGHT AS NOTED, AND DO NOT INCLUDE ANY TAXES. UNIVERSAL VOLTAGE (120/277) BALLASTS REQUIRED UNLESS NOTED OTHERWISE. DIMENSION SEQUENCE = (LENGTH X WIDTH X DEPTH) IN INCHES.

SYMBOL	MARK	FIXTURE CHARACTERISTICS BODY / AIR / MOUNTING / DOOR LENS/LOUVER/REFLECTOR/OTHER	LAMP	WATTS	VOLTS	MANUFACTURER	CATALOG NUMBER	NOTES
	DF	FLUORESCENT DOWNLIGHT; THERMALLY PROTECTED HOUSING: TO ACCOMMODATE MULTIPLE TRIMS AND REFLECTOR ASSEMBLIES FOR LAMPS AS LISTED BELOW; ELECTRONIC BALLASTS; LOW IRIDESCENT REFLECTOR FINISH (EVEN IF NOT SHOWN IN CATALOG #); SELF FLANGING TRIM UNLESS NOTED.						
	DF-33	RECESSED DOWNLIGHT;7-8" APERTURE, HORIZONTAL, 32W CF-AMALGAM LAMP, CLEAR.	1-CF-A32 RE835	50W	277/120V	PORTFOLIO INFINITY LIGHTOLIER LITHONIA OMEGA PRESCOLITE	C7132E-7151LI (14 X 13-5/16 X 8) PH75 132T-EB (GX24Q-3) 277 BH (16-1/4 X 12 X 10-5/8) 8037CLW/7132BU (15 X 12 X 7-3/4) AF 1/32TRT 8AR MVOLT (15-13/16 X 13-7/8 X 11-1/2) S81H32-U-T81H-CS (14-11/16 X 13-1/4 X 6-11/16) CFT832HEB-STF802H (16-1/4 X 14-7/16 X 7-1/8)	
	DF-45	RECESSED WALL WASHER; 6-7" APERTURE, HORIZONTAL LAMP, 1-32W CF-AMALGAM LAMP, CLEAR CONE.	1-CF-A32 RE835	50W	277/120V	PORTFOLIO INFINITY LIGHTOLIER LITHONIA OMEGA PRESCOLITE	C6132E-6111LI (13 X 11-1/2 X 6-1/2) PH60 132T-EB (GX24Q-3) WW 277 BH (16-1/4 X 12 X 5-1/4) 8081CLW/6132BU (12-3/4 X 10 X 6-5/8) AFW 1/32TRT 6AR MVOLT (15-7/8 X 13-5/8 X 7-1/4) S61H32PLT-U-T61H-WW-CS (11-11/16 X 11-7/16 X 5-3/4) CFT632HEB-STF602HWW (16-1/4 X 14-7/16 X 6-1/4)	
	DF-47	RECESSED DOWNLIGHT;SHOWER LIGHT TRIM, 9" APERTURE, HORIZONTAL, 32W CF-AMALGAM LAMP. GASKET.	1-CF-A32 RE835	50W	277/120V	OMEGA INFINITY LIGHTOLIER HALO PRESCOLITE LITHONIA	OM61H32PLTSRD-SWR (24-13/16 X 14-1/2 X 6-3/16) PVSL68 132T-EB (GX24Q-3) 277 BH (16-1/4 X 14-7/16 X 7-7/8) 8097CWHW/7132BU (15 X 12-3/4 X 6-1/2) C7132-1E-7180LI-120 (14 X 13-5/16 X 8) CFT832HEB-WTT2F (16-1/4 X 14-7/16 X 7-1/8) LGF-132TRT9 RW DOLGSGT MVOLT (17-3/4 X 17-1/4 X 8-5/8)	
	E3	EXIT SIGN: CAST ALUMINIUM HOUSING; UNIVERSAL MOUNTING; UNIVERSAL ARROWS PER PLANS; EMERGENCY BATTERY PACK WITH 10 YEAR PRO-RATA WARRANTY; LED, DIFFUSE LENS PANEL; GREEN LETTERS ON WHITE BACKGROUND. MUST MEET NFPA ILLUMINATION STANDARDS.						
	E3-1	SINGLE FACE:	LED	1W	120/277V	DUAL-LITE EELP LITHONIA SURE-LITES MCPHILBEN CHLORIDE LIGHTOLIER	LCSGWE CA 1G WW EM LES W 1 G 120/277 ELN CX7170GW ER55L-1-12/27-WG CXLN1GW LDN1GW	
	E3-2	DUAL FACE:	LED	2W	120/277V	DUAL-LITE EELP LITHONIA SURE-LITES MCPHILBEN CHLORIDE LIGHTOLIER	LCDGWE CA 2G WW EM LES W 2 G 120/277 ELN CX7270GW ER55L-2-12/27-WG CXLN2GW LDN2GW	
	FD	WET LOCATION FLUORESCENT; PLASTIC HOUSING; IMPACT RESISTANT ACRYLIC LENS.						
	FD-10	4' 2 T8 FLUORESCENT LAMPS;	2-F32T8 RE835	70W	277/120V	LITHONIA METALUX HUBBELL COLUMBIA DAYBRITE LIGHTOLIER	DMW 232T8 AR 120/277 PROGRAM START VT2-232T8/DR-PROG-WL EWLO42-SPDR-U LUN4-232T8-EB120/277 PROG V2WAB232T8-1/2EB-LT STW-232-U-SO	
	G	INDIRECT TROFFERS: RECESSED FOR LAY-IN GRID; HINGED FLUSH STEEL DOOR WITH LATCH; EARTHQUAKE CLIPS, PROGRAM START ELECTRONIC BALLASTS; ONE BALLAST PER FIXTURE, 100-10% DIMMING BALLAST OR DUAL LEVELSWITCHING BALLASTS WHERE SHOWN, INSTALLER TO COORDINATE CONTROLS AND MOUNTING.						
	G-7	2X2, 2-LAMP. HIGH EFFICIENCY OPTICS	2-F40BX RE835	78W	277/120V	LEDALITE AXIS MARK DAYBRITE LIGHTOLIER	9822DXST2TT5S12 SPEC DAYF-2X2-S-40TT-2-W-UNV-E-1-X WHS 22 2/40BX EBPR XXX SW SW 2STG2CF40-D-UNV-1/2EB10R SKS2GPK2FT-UNV-IB	
	G-12	2X4, 2-LAMP. HIGH EFFICIENCY OPTICS .6BF	2-F32T8 RE835	44W	277/120V	LEDALITE AXIS MARK DAYBRITE LIGHTOLIER	9824DXSTT232-1-2-SPEC.61 DAYF-2X4-S-T8-2-W-UNV-E-1-X-.6BF WHS 24 2/T8 GEUSXL XXX SW SW 2STG232-D-UNV-1/2EBL10R(.6BF) SKS2GPK232-UNV-P2	
	G-13	2X4, 3-LAMP. HIGH EFFICIENCY OPTICS .6BF	3-F32T8 RE835	66W	277/120V	LEDALITE AXIS MARK DAYBRITE LIGHTOLIER	9824DXSTT332-1-2-SPEC.61 DAYF-2X4-S-T8-3-W-UNV-E-1-X-.6BF WHS 24 3/T8 GEUSXL XXX SW SW 1/3 2STG332-D-UNV-1/3EBL10R(.6BF) SKS2GPK332-UNV-P3	
	GF	TROFFERS: RECESSED FOR FLANGE MOUNTED CEILING; STATIC; HINGED AND LATCHED STEEL DOOR; .125 ACRYLIC PRISMATIC LENS, MINIMUN 1/8"; PRORGAM START ELECTRONIC BALLASTS; T8 LAMPS; ONE BALLAST PER FIXTURE WHERE POSSIBLE, UNLESS TWO LEVEL SWITCHING IS SHOWN ON THE PLANS. MAX 5" DEEP. SPECIFICATION GRADE.						
	GF-4	2X4, 3 LAMP.	3-F32T8 RE835	95W	277/120V	LITHONIA METALUX DAYBRITE COLUMBIA LIGHTOLIER LSI	2SP8F 332 A12125 1/3 MVOLT TUBRHP (3-11/16" DEPTH) 2FP-332A125-UNV-EB81-PROGRAM START (3-3/4" DEPTH) 2DPF332-FS21-UNV-1/3EB-SPEC (4-3/8" DEPTH) ST824-332F-FSA12.125-3EB8LHPRUNV (4-1/4" DEPTH) XT2FVI332-U-03P (3" DEPTH) FLA125 332 SD SSO10PS UE (4" DEPTH)	
	GS	TROFFERS: RECESSED FOR LAY-IN GRID; STATIC; HINGED AND LATCHED STEEL DOOR; .125 ACRYLIC PRISMATIC LENS, MINIMUN 1/8"; EARTHQUAKE CLIPS; MAX 5" DEEP; SPECIFICATION GRADE; PROGRAM START ELECTRONIC BALLASTS, T8 LAMPS; ONE BALLAST PER FIXTURE WHERE POSSIBLE, UNLESS TWO LEVEL SWITCHING IS SHOWN ON THE PLANS.						
	GS-2	2X2, 2 LAMP.	2-F31T8U RE835	65W	277/120V	LITHONIA METALUX DAYBRITE COLUMBIA LSI LIGHTOLIER	2 SP8G 2U31 A12125 MVOLT TUBRHP (4-1/4" DEPTH) 2GP-2U6T8A125-UNV-EB81-PROGRAM START (3-3/4" DEPTH) 2DPG231U6-FS21-UNV-1/2EB-SPEC (4-3/8" DEPTH) ST822-232U6G-FSA12.125-EB8LHPRUNV (4-1/4" DEPTH) LA125 2U32 SD SSO10PS UE (4" DEPTH) XT2GVI2-2U-UNV-SOP (4-1/2" DEPTH)	
	GS-3	2X4, 2 LAMP.	2-F32T8 RE835	65W	277/120V	LITHONIA METALUX DAYBRITE LSI LIGHTOLIER COLUMBIA	2 SP8G 232 A12125 MVOLT TUBRHP (4-1/2" DEPTH) 2GP-232A125-UNV-EB81-PROGRAM START (3-3/4" DEPTH) 2DPG232-FS21-UNV-1/2EB-SPEC (4-3/8" DEPTH) LA125 232 SD SSO10PS UE (4" DEPTH) XT2GVI232-UNV-SOP (3-5/8" DEPTH) ST824-232G-FSA12.125-EB8LHPRUNV (3-3/4" DEPTH)	
	GS-4	2X4, 3 LAMP.	3-F32T8 RE835	95W	277/120V	LITHONIA METALUX DAYBRITE COLUMBIA LIGHTOLIER LSI	2 SP8G 332 A12125 1/3 MVOLT TUBRHP (4-1/2" DEPTH) 2GP-332A125-UNV-EB81-PROGRAM START (3-3/4" DEPTH) 2DPG332-FS21-UNV-1/3EB-SPEC (4-3/8" DEPTH) ST824-332G-FSA12.125-3EB8LHPRUNV (3-3/4" DEPTH) XT2GVI332-UNV-03P (3-5/8" DEPTH) LA125 332 SD SSO10PS UE (4" DEPTH)	

GS	TROFFERS: RECESSED FOR LAY-IN GRID; STATIC; HINGED AND LATCHED STEEL DOOR; .125 ACRYLIC PRISMATIC LENS, MINIMUN 1/8"; EARTHQUAKE CLIPS; MAX 5" DEEP; SPECIFICATION GRADE; PROGRAM START ELECTRONIC BALLASTS, T8 LAMPS; ONE BALLAST PER FIXTURE WHERE POSSIBLE, UNLESS TWO LEVEL SWITCHING IS SHOWN ON THE PLANS.						
GS-2	2X2, 2 LAMP.	2-F31T8U RE835	65W	277/120V	LITHONIA METALUX DAYBRITE COLUMBIA LSI LIGHTOLIER	2 SP8G 2U31 A12125 MVOLT TUBRHP (4-1/4" DEPTH) 2GP-2U6T8A125-UNV-EB81-PROGRAM START (3-3/4" DEPTH) 2DPG231U6-FS21-UNV-1/2EB-SPEC (4-3/8" DEPTH) ST822-232U6G-FSA12.125-EB8LHPRUNV (4-1/4" DEPTH) LA125 2U32 SD SSO10PS UE (4" DEPTH) XT2GVI2-2U-UNV-SOP (4-1/2" DEPTH)	
GS-3	2X4, 2 LAMP.	2-F32T8 RE835	65W	277/120V	LITHONIA METALUX DAYBRITE LSI LIGHTOLIER COLUMBIA	2 SP8G 232 A12125 MVOLT TUBRHP (4-1/2" DEPTH) 2GP-232A125-UNV-EB81-PROGRAM START (3-3/4" DEPTH) 2DPG232-FS21-UNV-1/2EB-SPEC (4-3/8" DEPTH) LA125 232 SD SSO10PS UE (4" DEPTH) XT2GVI232-UNV-SOP (3-5/8" DEPTH) ST824-232G-FSA12.125-EB8LHPRUNV (3-3/4" DEPTH)	
GS-4	2X4, 3 LAMP.	3-F32T8 RE835	95W	277/120V	LITHONIA METALUX DAYBRITE COLUMBIA LIGHTOLIER LSI	2 SP8G 332 A12125 1/3 MVOLT TUBRHP (4-1/2" DEPTH) 2GP-332A125-UNV-EB81-PROGRAM START (3-3/4" DEPTH) 2DPG332-FS21-UNV-1/3EB-SPEC (4-3/8" DEPTH) ST824-332G-FSA12.125-3EB8LHPRUNV (3-3/4" DEPTH) XT2GVI332-UNV-03P (3-5/8" DEPTH) LA125 332 SD SSO10PS UE (4" DEPTH)	
HF	HIGH BAY INDUSTRIAL FLUORESCENT FIXTURES: STEEL ENCLOSURE, ELECTRONIC BALLAST; SURFACE SPACER SUSPENDING FIXTURES FLUSH WITH THE BOTTOM OF THE TRUSSES, UNLESS OTHERWISE INDICTED. RATED FOR 55 DEGREES C. PROVIDE WIREGUARDS FOR OPEN FIXTURES, AND HINGED LENSES/COVERS FOR ENCLOSED FIXTURES.						
HF-4	HEAVY DUTY SURFACE LUMINAIRE, 48" X 17", 4-LAMP, WIREGUARD	4-F54T5HO RE841	234W	277/120V	LA LIGHTING DAYBRITE NULITE COLUMBIA	HB1609-4-4M-SR-DRP8-2E5H-UNV/WG11	
HF-6	HEAVY DUTY SURFACE LUMINAIRE, 48" X 23", 6-LAMP, WIREGUARD	6-F54T5HO RE841	358W	277/120V	LA LIGHTING DAYBRITE NULITE COLUMBIA	HB1609-6-4M-SR-DRP8-2E5H-UNV/WG11	
OB	BOLLARDS: SEAMLESS CAST ALUMINUM HOUSING, WITH MOUNTING BASE AND ANCHOR BOLTS, ACRYLIC LENS, INTEGRAL MULTI-TAP BALLAST; FUSED, COLOR AS DIRECTED BY ARCHITECT CHOSEN FROM MANUFACTURERS' STANDARD PAINTED FINISHES.						
OB-2	8" ROUND X 42" HIGH, EXTERNAL LOUVER OPTICS, SOLID DOME TOP. CUSTOM COLOR BY ARCHITECT	100PSMH	125W	MTB	GARDCO KIM LSI STERNER BRONZELITE ALLSCAPE GREENLEE LITHONIA	BRM-820-42-100-MH-MTB-X-F VRB1-100MHXXX-XXX-FUSED BVRD-EL-100MH-XX-MT-XXX-NO-F AR-42-G-CL-DT-100-H-VND-SCBA CL82XA0100PMT-FS ABR-100MH-MT-EL-CBA-DT(FUSED) KBA8 100M LV TB SF	
OB-2e	SAME AS OB-2 BUT 1-42W CFL	1CF42 RE835	46W	MTB	GARDCO KIM LSI STERNER BRONZELITE ALLSCAPE GREENLEE LITHONIA	BRM-820-42-42TRF-MTB-X-F	
OC	WALL PACK: ADJUSTABLE CUT OFF; FULL PERIMETER GASKETING: WET LOCATION; STAINLESS STEEL HINGES AND LATCHES; PROJECTING LENS; HPF BALLAST; SEE ELEVATION FOR MOUNTING HEIGHT, COLOR AS SPECIFIED BY ARCHITECT.						
OC-27	150 PSMH, RECESSED J BOX. WIDE THROW, SQUARE, DECORATIVE	150PSMH	200W	277/120V	MCPHILBEN LSI LITHONIA LUMARK	101-WT-175MH-XX GBWS-3-150MH-F-MT-XX-NO WST 150M WT TB MHIP-T-150-MT-XX	
OC-32	CF42, RECESSED J BOX. MEDIUM THROW, SQUARE, DECORATIVE	CF42 RE835	50W	277/120V	MCPHILBEN LSI LITHONIA LUMARK LSI	101MT-42TRF-CBA-DT GBWS-FTM-42CFL-F-120/277-XX-NO WST 42TRT MD MVOLT PLIP-T-42-MT-XX GBWS FTM 42CFL F UE XXX W/LAMP	
P3	PARABOLIC LOUVER FIXTURES WITH 3" LOUVERS IN PLASTIC PROTECTORS AND FULL DEPTH REFLECTOR; SIZE AS NOTED; PROGRAM START ELECTRONIC BALLASTS PER SPECS; T8 LAMPS; ONE BALLAST PER FIXTURE UNLESS NOTED FOR SWITCHING; STATIC OR AIR RETURN AND HEAT REMOVAL; EARTHQUAKE CLIPS INSTALLED ON ON GRID FIXTURES; HINGED AND LATCHED DOOR; LOW IRIDESCENT LOUVER FINISH, VERTICAL GRAIN DIE STAMPED LOUVERS; TWO FORMED BALLAST COVERS; MAX 1300 CD/M2 ABOVE 45 DEGREES.						
P3-6	2X4, 18 CELL LAY-IN; SEMI-SPECULAR SILVER, 3-LAMP. STATIC.	3-F32T8 RE835	95W	277/120V	LITHONIA DAYBRITE METALUX COLUMBIA LSI LIGHTOLIER HEWILLIAMS	2PM3NGB-332-18LD-MVOLT-1/3TUBRHP-2R 2P3GS332-36SL-UNV-1/3-EB-SPEC 2EP3GX-332S36I-UNV-PROGRAM START-2BC P4D24-332G-LD36-S-3EB8LHPRUNV N2PG18 332 FD SSO10PS 2BC UE DPS2G18LP332-U-03P HE3G-D24-332-36S-EB8PXLH3*OS-UNV	
P3-12	1X4, LINEAR WALLWASHER; SEMI-SPECULAR SILVER LOUVERS. STATIC.	1-F32T8 RE835	40W	277/120V	COLUMBIA LIGHTOLIER METALUX LITHONIA PMC LSI	PW84-132G-LD-B-EB8LHPRUNV WMRL143-U-SOP RWW-132I-UNV-PROGRAM START WWG1-32-IRLD-MVOLT-TUBRHP SLC-D-T-1/OCT-4'-CA-12/27-EB NWW 132 SSO10PS UE	
P3-13	1X2, LINEAR WALLWASHER; SEMI-SPECULAR SILVER LOUVERS. STATIC.	1-CF40 RE835	50W	277/120V	COLUMBIA LIGHTOLIER METALUX LITHONIA OMEGA LSI	PW82-140TTG-LD-B-EBTTLHPRUNV WMRL125-U-SB RWW-1BX40I-UNV-EB51 WWG1-CF40-IRLD-MVOLT-TUBRHP OM24-1H-40BX-WW-CSS-120/277 NWW 140BX SSO10PS UE	
S	FLUORESCENT STRIP LIGHT: STEEL CONSTRUCTION; WHITE PAINTED FINISH; SUITABLE FOR MOUNTING ON LOW DENSITY CEILINGS; PROGRAM START ELECTRONIC BALLASTS; T8 LAMPS; ONE BALLAST PER FIXTURE WHERE POSSIBLE, UNLESS TWO LEVEL SWITCHING IS SHOWN ON THE PLANS.						
S-1	4', 1-LAMP.	1-F32T8 RE835	40W	277/120V	LITHONIA LIGHTOLIER METALUX DAYBRITE HUBBELL COLUMBIA	C132-MVOLT-TUBRHP SW132-U-SOP SS-132-UNV-PROGRAM START T132-UNV-EB-SPEC S132UPS CS4-132-EB8120/277 PROG	
S-3	4', 2-LAMP.	2-F32T8 RE835	65W	277/120V	LITHONIA LIGHTOLIER METALUX DAYBRITE HUBBELL COLUMBIA	C232-MVOLT-TUBRHP SW232-U-SOP SS-232-UNV-PROGRAM START T232-UNV-1/2-EB-SPEC C232UPS CS4-232-EB8120/277 PROG	
SA	GENERAL PURPOSE INDUSTRIAL: WHITE ENAMEL, APERTURED REFLECTOR; PROGRAM START ELECTRONIC BALLASTS; T8 LAMPS; ONE BALLAST PER FIXTURE WHERE POSSIBLE; UNLESS TWO LEVEL SWITCHING IS SHOWN ON THE PLANS; STEM MOUNTED WITH TONG HANGERS.						
SA-1	4', 2-LAMP.	2-F32T8 RE835	65W	277/120V	LITHONIA LIGHTOLIER METALUX HUBBELL COLUMBIA DAYBRITE	EJA232-MVOLT-TUBRHP-THUN KWA232-U-SOP IA-232-UNV-PROGRAM START IG142R-PP10-UPS CSR4-232U-EB8120/277 PROG-CSTH IA232-UNV-1/2-EB-SPEC	
TX	SPECIAL FIXTURES AS INDICATED. MEET ALL REQUIREMENTS OF SPECIFICATIONS AND FIXTURE SCHEDULE. VISUAL AND FINISH APPROVAL REQUIRED.						
TX-1	16" DECORATIVE PENDANT HIGHBAY FIXTURE, 12" ACRYLIC DIFFUSER, 16" GLASS DISK LENS. AIRCRAFT CABLE MOUNTING.	2-CF42 RE835	93W	277/120V	LIGHTOLIER BEGHELLI PACE FC LIGHTING LSI	404722XU3-40422-404SKG-412DG BS710-CF2-SM-42-MT-AC HPII-500-812-2XPL42 120/277 ACXX GDR FCP660-120/277-242T-E-SA-RA LFT-42CFL2-UE-ALU-AC12DGR-ACC120"-XXX	
TX-2	16-20" DECORATIVE PENDANT HIGHBAY FIXTURE, 16" ACRYLIC DIFFUSER, 20" GLASS DISK LENS. AIRCRAFT CABLE MOUNTING.	4-CF42 RE835	186W	277/120V	LIGHTOLIER BEGHELLI PACE FC LIGHTING LSI	404734XU3-40432-404SKG-416DG BS710-CF-MD-42-MT-AC HPII-500-812-2XPL42 120/277 ACXX GDR LFT-42CFL4-UE-ALU-AC16DGR-ACC120"-XXX	
TX-3	DECORATIVE PENDANT CYLINDER	1-CF-A32 RE835			LIGHTOLIER BEGHELLI PACE FC LIGHTING LSI	PM150OSA/CF32-PG01-GL01-SK01-277	

TX-4	LINEAR LOW PROFIL LED PROVIDE LIGHT FIXTURES AS REQUIRED FOR THE ENTIRE LENGTH SHOWN.	LED		120V	JESCO	WWWS 48 36 - PP - 30 - W30 - Z	
TX-99	INGROUND WHEATHER PROOF FIXTURE	LED		277/120	LIGHTOLIER BEGHELLI PACE FC LIGHTING LSI	I25-SS-NF-WL40	
V	VANDAL RESISTANT SURFACE MOUNTED LIGHTING: .125" INJECTION MOLDED POLYCARBONATE LENS; IMPACT RESISTANT; UV STABILIZED; ALL METAL PARTS ARE ENCLOSED; GASKETED; VANDAL RESISTANT STAINLESS STEEL SCREWS; SECURED MOUNTING; PROGRAM START ELECTRONIC BALLASTS; T8 LAMPS.						
V-5	4', 3-LAMP WITH PRISMATIC LENS;	3-F32T8 RE835	65W	120V	KENALL FAIL-SAFE LUMINAIRE NEW STAR CD LIGHTING HOLCOR	N1048-C-332SB1-120/277 FPS-332-UNV-PROGRAM START LVP-751-332-EBPS-120 51C-124-U-T8PROGRAM VSL-24-232-UNV-EB HSP2-2/32T8-120-TX-UNIVOLT-PROGRAM START	
W	LOW PROFILE WRAPAROUND: SURFACE MOUNTED SUITABLE FOR MOUNTING ON LOW DENSITY CEILINGS WRAPAROUND ACRYLIC PRISMATIC DIFFUSER; WHITE ENAMEL ENDPLATES; MINIMUM CU OF 70 @ 80/50/20 AND RCR=1; PROGRAM START ELECTRONIC BALLASTS; T8 LAMPS; ONE BALLAST PER FIXTURE WHERE POSSIBLE, UNLESS TWO LEVEL SWITCHING IS SHOWN ON THE PLANS.						
W-3	NARROW BODY WRAPAROUND; 2-LAMP, APPROX; 3" X 10" X 48".	2-F32T8 RE835	65W	277/120V	LITHONIA DAYBRITE METALUX LIGHTOLIER LSI COLUMBIA	LB232-MVOLT-TUBPHP CAN232-UNV-1/2-EB-SPEC WS-232A-UNV-PROGRAM START WA232-U-SOP PR 232 SSO10PRS UE WC4-232-EBPS120/277	
WB	WALL MOUNTED FLUORESCENT LOCATED ABOVE WALL ELEMENT (MIRROR/WHITEBOARD, ETC.): AS INDICATED ON DRAWINGS; WITH ACRYLIC INJECTION MOLDED; PROGRAM START ELECTRONIC BALLASTS; T8 LAMPS; ONE BALLAST PER FIXTURE WHERE POSSIBLE, UNLESS TWO LEVEL SWITCHING IS SHOWN ON THE PLANS.						
WB-3	2-LAMP, WALL MOUNT 48", STEEL ENCLOSURE, DOWNLIGHT ONLY; ACRYLIC INJECTION MOLDED PRISMATIC DIFFUSER.	2-F32T8 RE835	65W	277/120V	DAYBRITE LIGHTOLIER METALUX L.A.L. COLUMBIA LITHONIA LSI	CD232W-UNV-1/2-EB-SPEC CWB232-WB-U-SOP BI-232-UNV-PROGRAM START BSQ100-2-4R-INJ-WHT-T8EB-120/277-UPS WAL4-232-EBPS120/277 WP 232 DO MVOLT-TUBPHP WB 232 SSO10PRS UE	
ZB	LIGHT POLES: TOTALLY ENCLOSED RAINTIGHT, DUST-TIGHT AND CORROSION RESISTANT; POLE AS SHOWN IN DETAIL WITH HANDHOLE, COVER, BOLT COVER, AND BASE; PAINTED (COLOR TO BE SELECTED BY ARCHITECT / ENGINEER WHICH MAY DIFFER FROM CATALOG NUMBER SHOWN). MTB= 120,208,240,277 VOLT MULTI-TAP BALLAST. ALL BALLASTS HPF. HORIZONTAL OR VERTICAL LAMP.						
ZB-3	ARM MOUNTED DISK STYLE LUMINAIRE, SINGLE HEAD, MULTI-TAP BALLAST; TYPE III DISTRIBUTION. 150PSMH	100PSMH	125W	MTB	EMCO MCGRAW SPALDING LITHONIA VISIONAIRE	ERA-201-3H-100PSMH-MT-CBA CAS1-100-MP-MT-3F DLR-ARM-M100PS-TYPE 3-MT-DBZ KAR1 100M R3 TB SPD09 SCWA CEN-1-T3-10P-6-S1-BZ	
ZB-11	ARM MOUNTED DISK STYLE LUMINAIRE, SINGLE HEAD, MULTI-TAP BALLAST; TYPE III DISTRIBUTION. 320PSMH	320PSMH	363W	MTB	EMCO MCGRAW SPALDING LITHONIA VISIONAIRE	ERA-251-3H-320PSMH-MT-CBA CAS2-320-MP-MT-3F DLR-ARM-M320PS-TYPE 3-MT-DBZ KAR2 320M R3 TB SPD09 SCWA CEN-2-T3-32P-6-S1-BZ	
ZB-11d	ARM MOUNTED DISK STYLE LUMINAIRE, DOUBLE HEAD, MULTI-TAP BALLAST; TYPE III DISTRIBUTION. 320PSMH	2-320PSMH	726W	MTB	EMCO MCGRAW SPALDING LITHONIA VISIONAIRE	ERA-251-3H-320PSMH-MT-CBA-DUAL CAS2-320-MP-MT-3F-DUAL DLR-ARM-M320PS-TYPE 3-MT-DBZ-DUAL KAR2 320M R3 TB SPD09 SCWA-DUAL CEN-2-T3-32P-6-S1-BZ-DUAL	
X	SPECIAL FIXTURES AS INDICATED. MEET ALL REQUIREMENTS OF SPECIFICATIONS AND FIXTURE SCHEDULE. VISUAL AND FINISH APPROVAL REQUIRED.						
X-X	LED WALL 4 FEET			277/120V	LIGHTOLIER BEGHELLI PACE		

PROFESSIONAL ENGINEER
STATE OF UTAH
01/18/2012

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project:
TOOELE APPLIED TECHNOLOGY COLLEGE - NEW BUILDING

88 South Tooele Blvd
Tooele, UT 84074

project#: 11.0420
date: 1/20/11

revisions :

Fixture Schedule

sheet:

EL601

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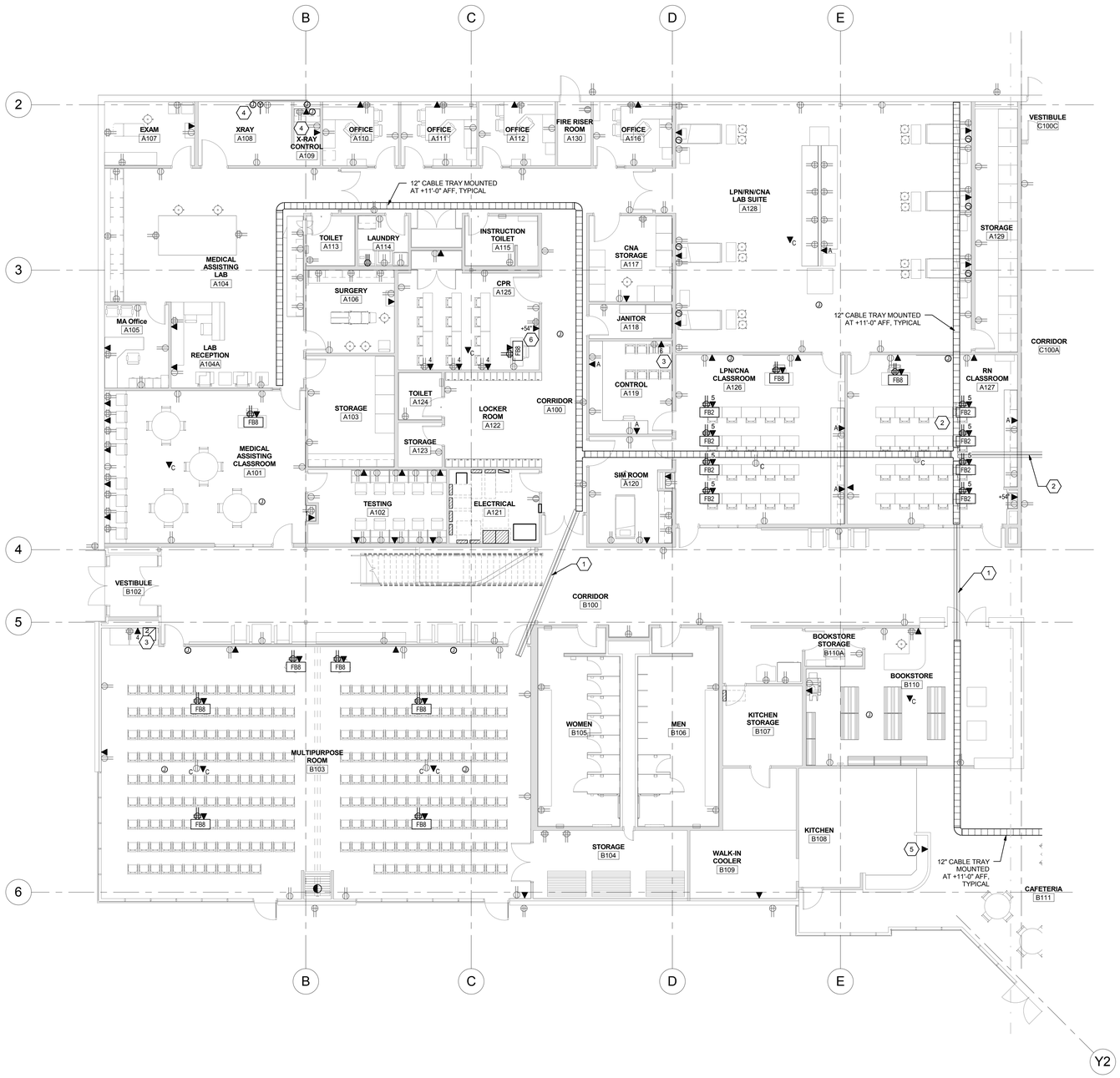
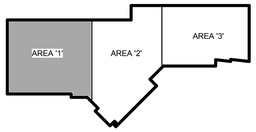


1 LEVEL 1 TELECOMMUNICATIONS PLAN - AREA '1'

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

PROJECT NORTH TRUE NORTH



GENERAL SHEET NOTES

SHEET KEYNOTES

1 PROVIDE 2 EACH, 4" CONDUITS.

2 4 EACH, 4" CONDUITS FROM SERVER/IT STORAGE ROOM ABOVE TO CABLE TRAY AT LEVEL 1 IN ACCESSIBLE CEILING SPACE.

3 MOUNT DATA OUTLET IN AV EQUIPMENT CABINET.

4 PROVIDE A 4" SQUARE JUNCTION BOX AT EACH LOCATION WITH A DOUBLE GANG MUD RING AND 1 EACH, 1" CONDUIT BETWEEN THE BOXES. VERIFY EXACT MOUNTING WITH OWNER PRIOR TO INSTALLATION.

5 DATA OUTLET FOR POINT OF SALE (P.O.S.). VERIFY EXACT MOUNTING.

6 DATA OUTLET FOR MONITOR. VERIFY EXACT MOUNTING LOCATION.

REGISTERED PROFESSIONAL ENGINEER No. 7862 STATE OF UTAH

01/18/2012

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project:
TOOELE APPLIED TECHNOLOGY COLLEGE - NEW BUILDING

88 South Tooele Blvd
Tooele, UT 84074

project#: 11.0420
date: 1/20/11

revisions :

Level 1 Telecom Plan - Area '1'

sheet:

ET111

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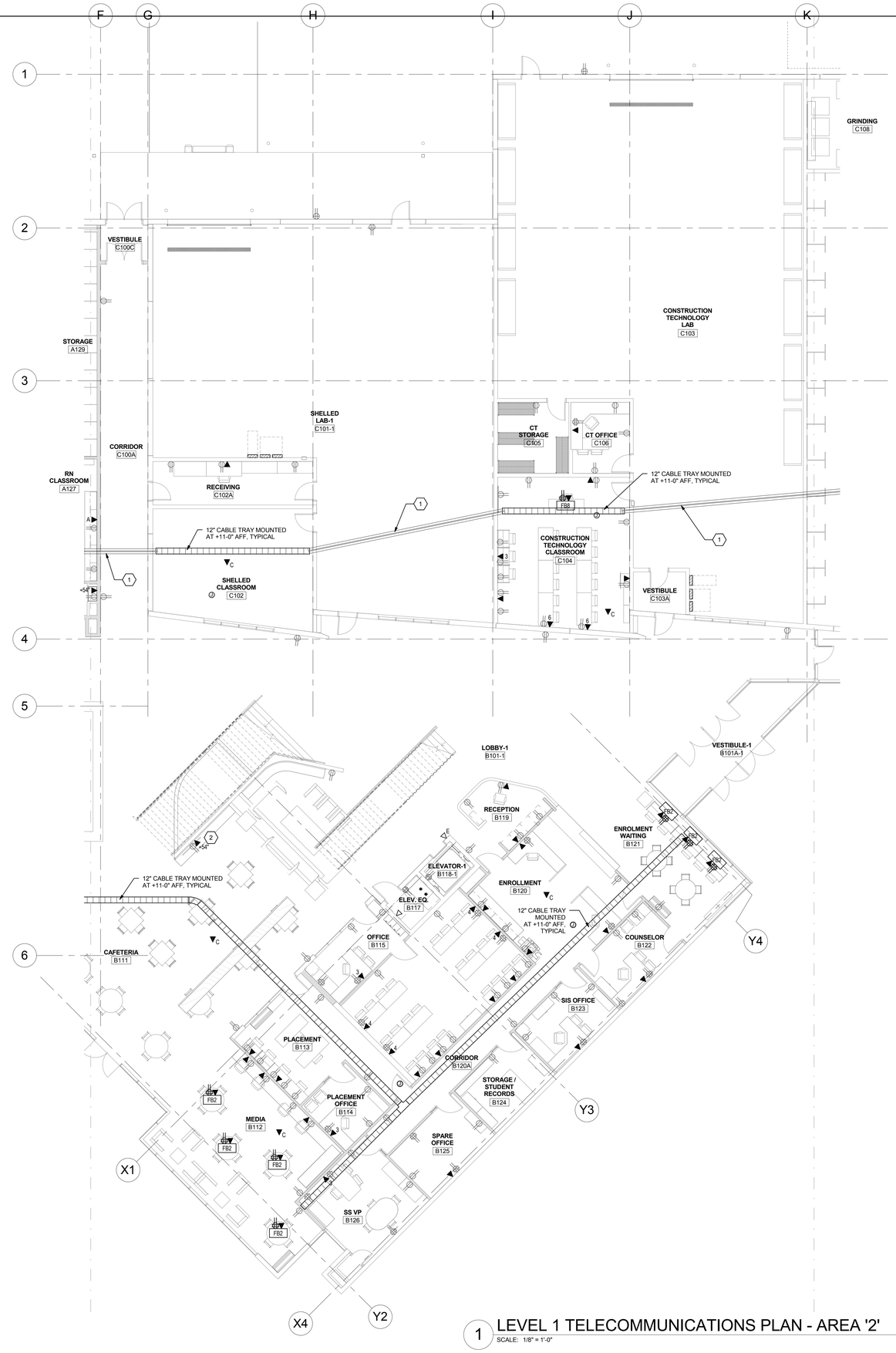
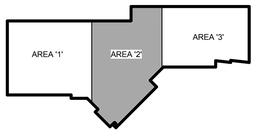


1 LEVEL 1 TELECOMMUNICATIONS PLAN - AREA '2'

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

PROJECT NORTH TRUE NORTH



GENERAL SHEET NOTES

SHEET KEYNOTES

1 PROVIDE 2 EACH, 4" CONDUITS.

2 DATA OUTLET FOR MONITOR. VERIFY EXACT MOUNTING LOCATION.

REGISTERED PROFESSIONAL ENGINEER No. 7862 STATE OF UTAH

01/18/2012

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project:
TOOELE APPLIED TECHNOLOGY COLLEGE - NEW BUILDING

88 South Tooele Blvd
Tooele, UT 84074

project#: 11.0420
date: 1/20/11

revisions :

Level 1 Telecom Plan - Area '2'

sheet:

ET112

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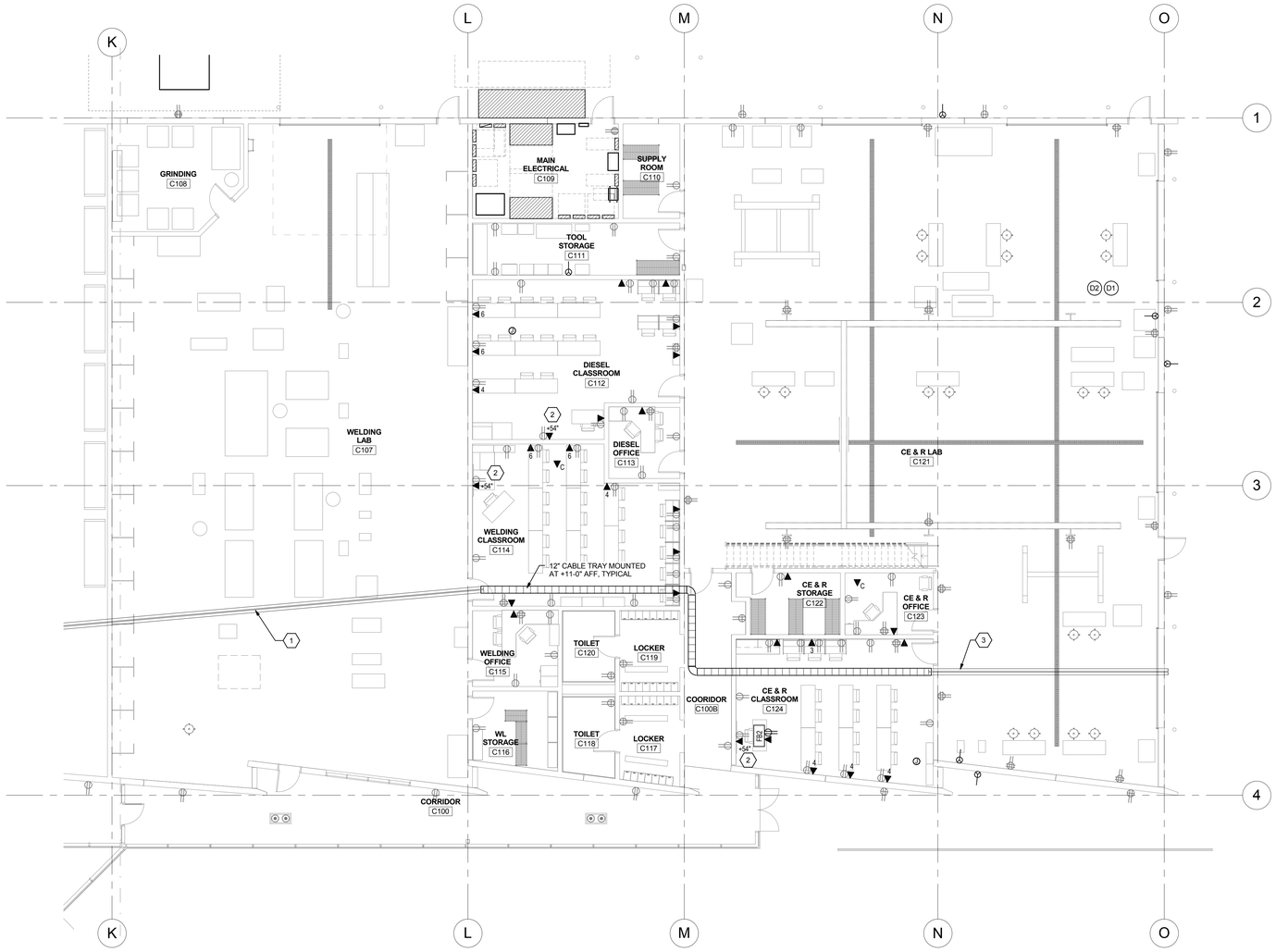
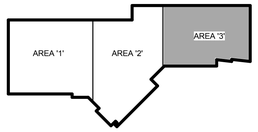


1 LEVEL 1 TELECOMMUNICATIONS PLAN - AREA '3'

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

PROJECT NORTH TRUE NORTH



GENERAL SHEET NOTES

SHEET KEYNOTES

1 PROVIDE 2 EACH, 4" CONDUITS.

2 DATA OUTLET FOR MONITOR. VERIFY EXACT MOUNTING LOCATION.

3 2 EACH, 4" CONDUITS STUBBED FROM CABLE TRAY TO OUTSIDE BUILDING.

REGISTERED PROFESSIONAL ENGINEER No. 7162 STATE OF UTAH

01/18/2012

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METHOD STUDIO INC.

925 south west temple
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project:

TOOELE APPLIED TECHNOLOGY COLLEGE - NEW BUILDING

88 South Tooele Blvd
Tooele, UT 84074

project#: 11.0420
date: 1/20/11

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Level 1 Telecom Plan - Area '3'

sheet:

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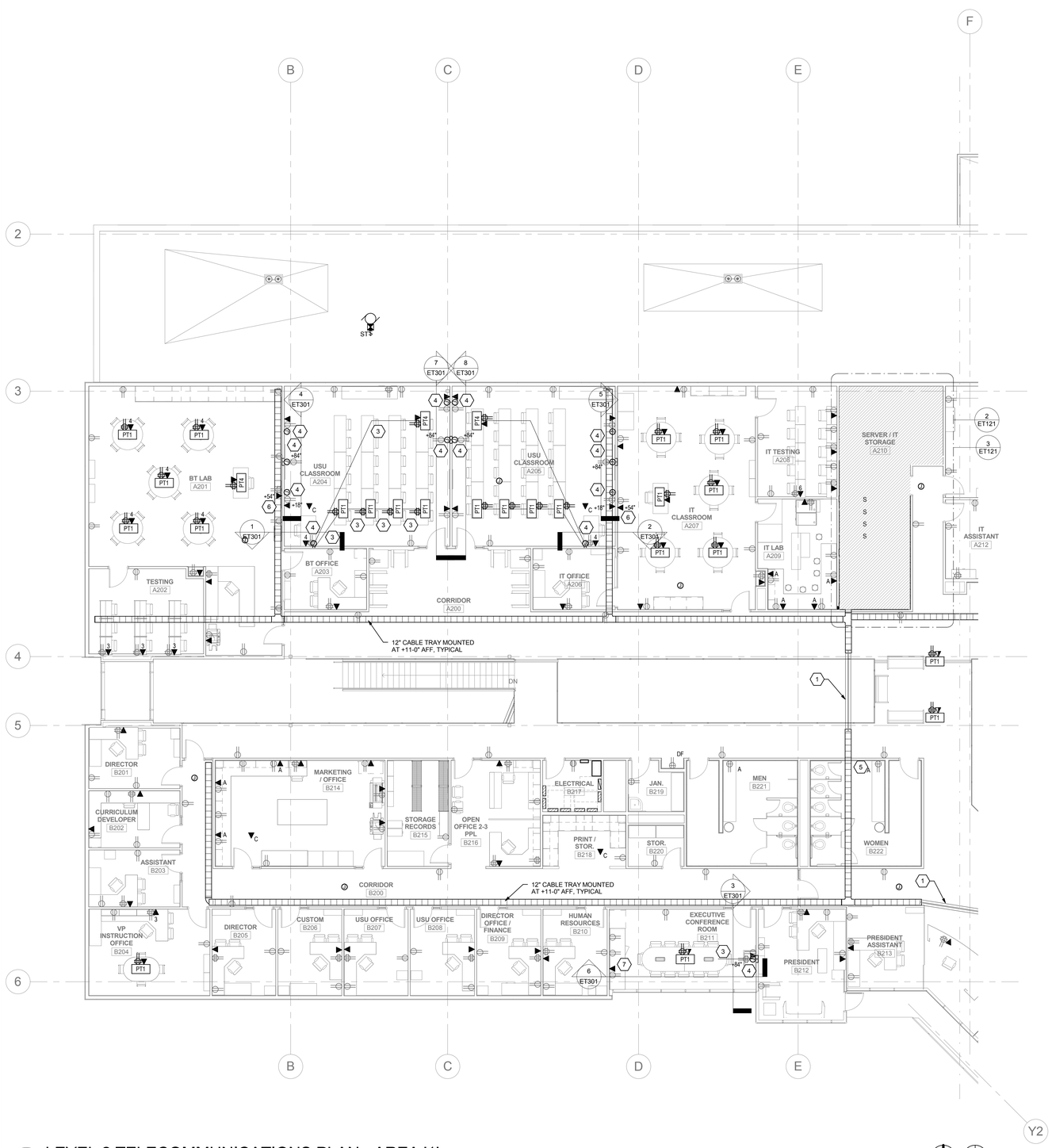
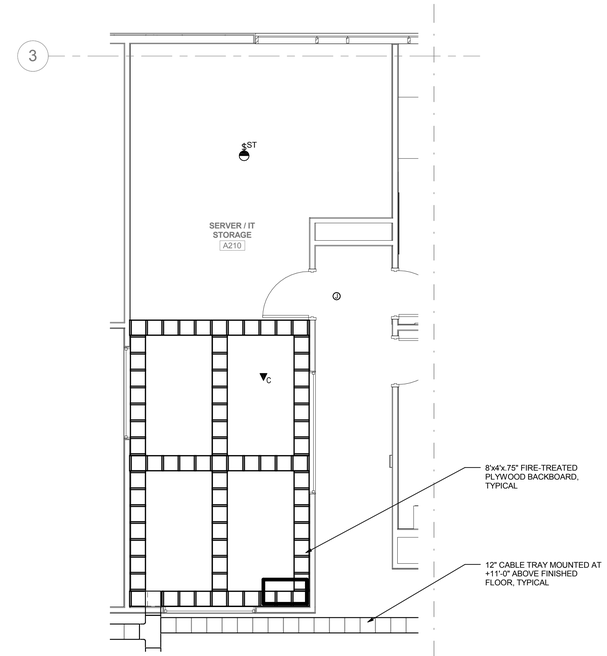


1 LEVEL 2 TELECOMMUNICATIONS PLAN - AREA '1'

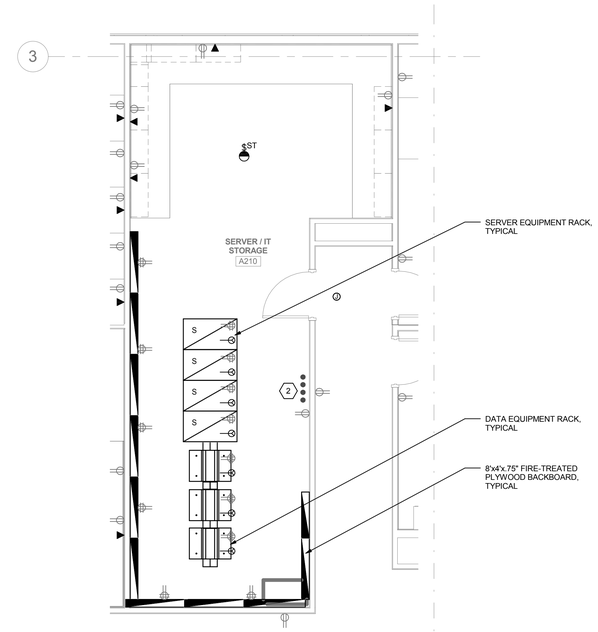
SCALE: 1/8" = 1'-0"

PROJECT NORTH TRUE NORTH



3 ENLARGED SERVER/IT STORAGE A210 LADDER RACK LAYOUT PLAN

SCALE: 1/4" = 1'-0"



2 ENLARGED SERVER/IT STORAGE A210 EQUIPMENT LAYOUT PLAN

SCALE: 1/4" = 1'-0"

GENERAL SHEET NOTES

SHEET KEYNOTES

1 PROVIDE 2 EACH, 4" CONDUITS.

2 STUB 4 EACH, 4" CONDUIT SLEEVES FROM SERVER/IT STORAGE A210 DOWN TO CABLE TRAY AT LEVEL 1 BELOW.

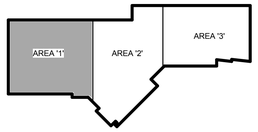
3 PROVIDE 1 EACH, 2" CONDUIT IN FLOOR SLAB.

4 PROVIDE IN WALL CONDUIT FROM JUNCTION BOX LOCATION INTO ACCESSIBLE CEILING SPACE.

5

6 DATA OUTLET FOR MONITOR. VERIFY EXACT MOUNTING LOCATION.

7 MOUNT DATA OUTLET IN AV EQUIPMENT CABINET.



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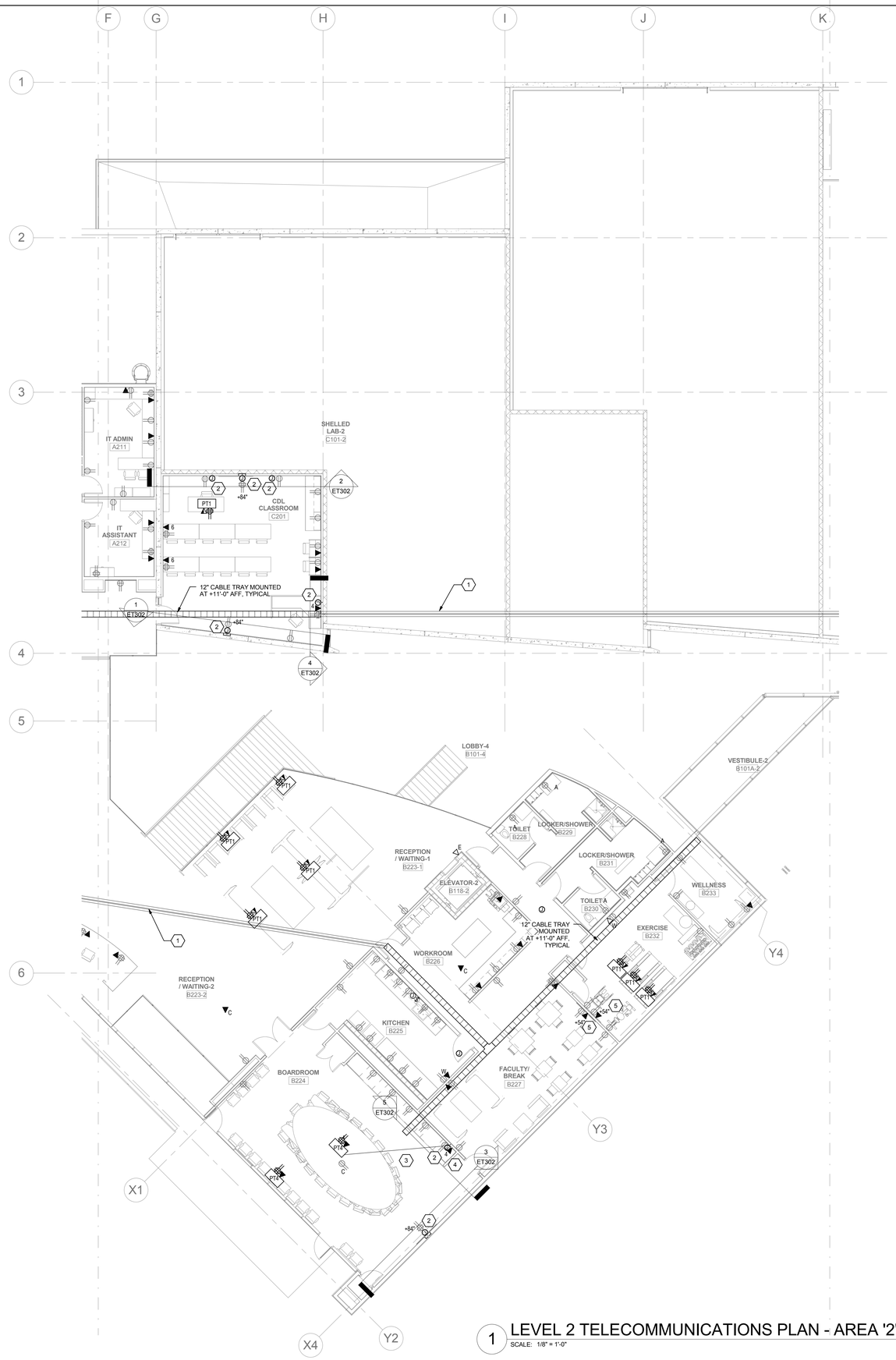


1 LEVEL 2 TELECOMMUNICATIONS PLAN - AREA '2'

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

PROJECT NORTH TRUE NORTH

GENERAL SHEET NOTES

SHEET KEYNOTES

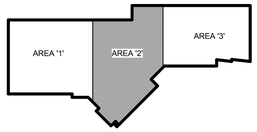
1 PROVIDE 2 EACH, 4" CONDUITS.

2 PROVIDE IN WALL CONDUIT FROM JUNCTION BOX LOCATION INTO ACCESSIBLE CEILING SPACE.

3 PROVIDE 1 EACH, 2" CONDUIT IN FLOOR SLAB.

4 MOUNT DATA OUTLET IN AV EQUIPMENT CABINET.

5 DATA OUTLET FOR MONITOR. VERIFY EXACT MOUNTING LOCATION.



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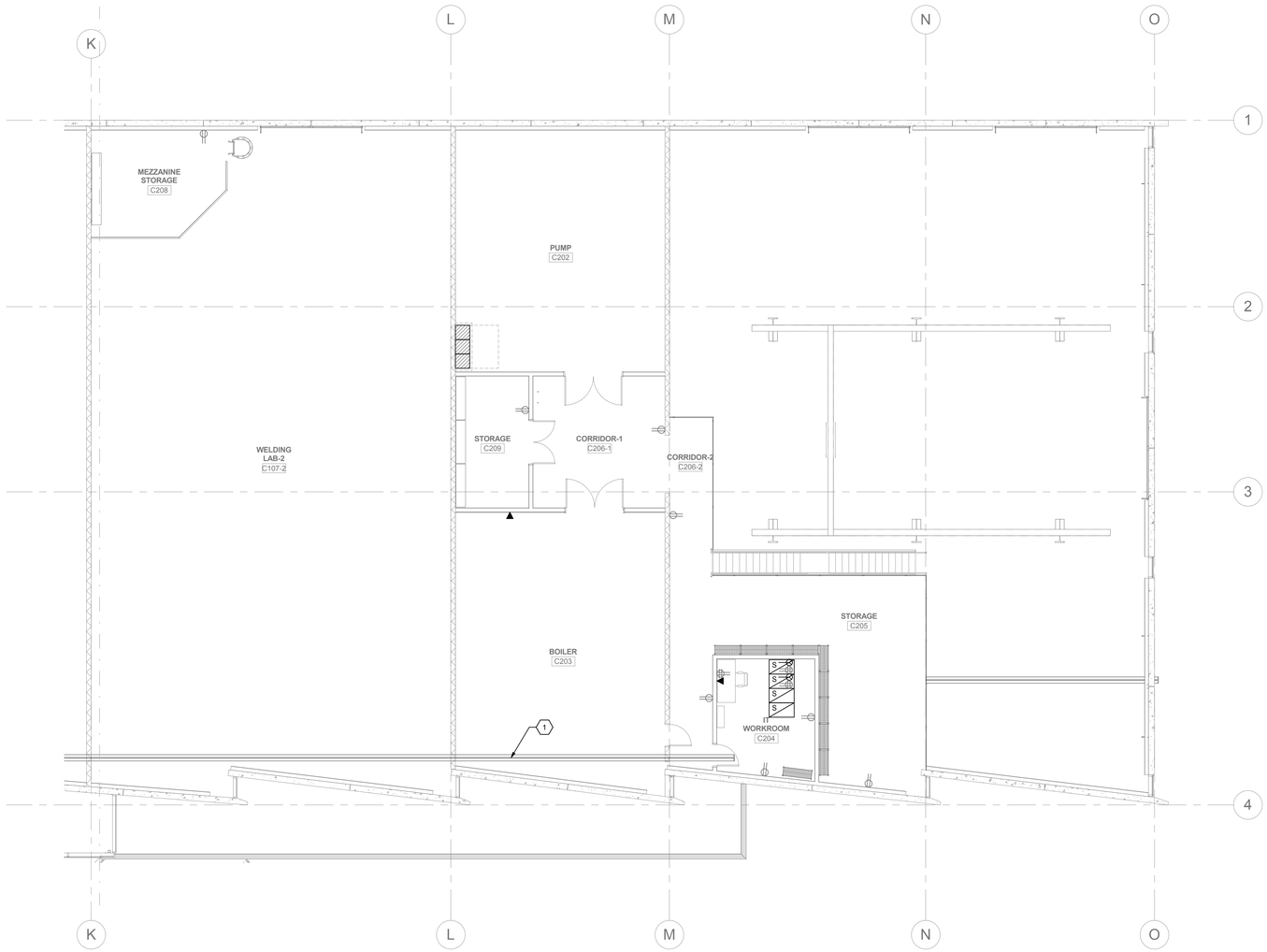
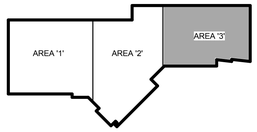


1 LEVEL 2 TELECOMMUNICATIONS PLAN - AREA '3'

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

PROJECT NORTH TRUE NORTH



GENERAL SHEET NOTES

SHEET KEYNOTES

1 PROVIDE 2 EACH, 4" CONDUITS.

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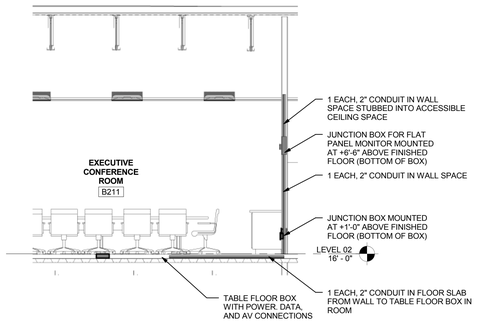
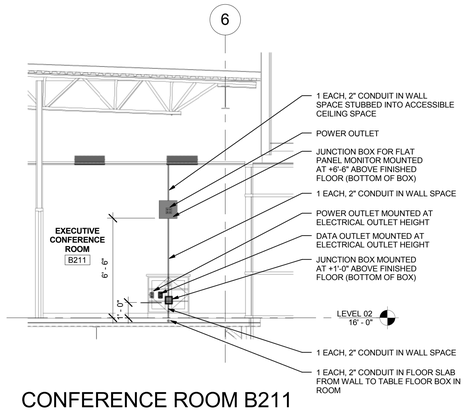


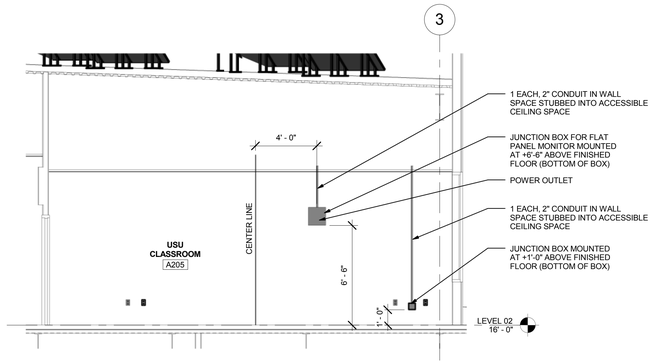
6 CONFERENCE ROOM B211 TELECOMMUNICATIONS SECTION DETAIL (SIDE)

SCALE: 1/4" = 1'-0"



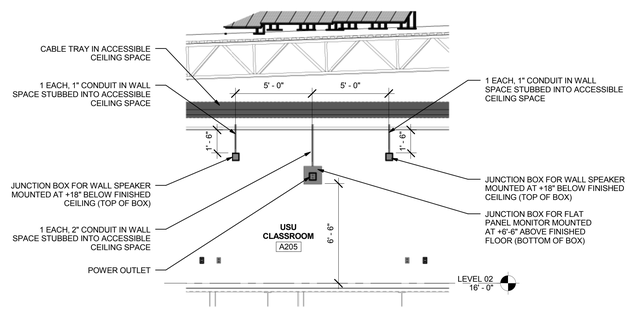
3 CONFERENCE ROOM B211 TELECOMMUNICATIONS SECTION DETAIL (FRONT)

SCALE: 1/4" = 1'-0"



8 USU CLASSROOM A205 TELECOMMUNICATIONS SECTION DETAIL (WEST)

SCALE: 1/4" = 1'-0"



5 USU CLASSROOM A205 TELECOMMUNICATIONS SECTION DETAIL (EAST)

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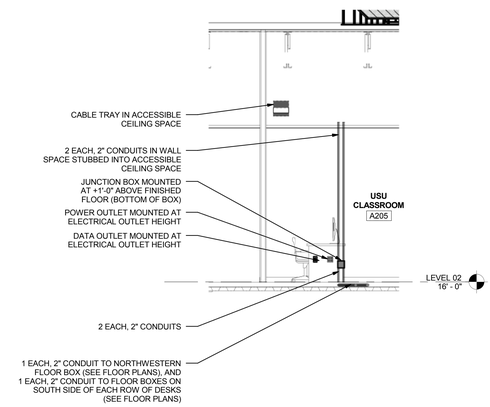
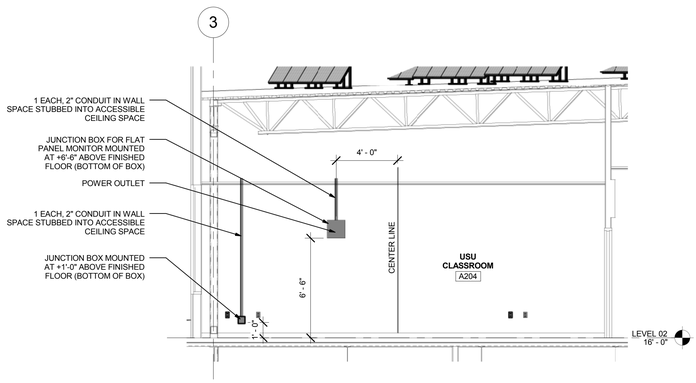


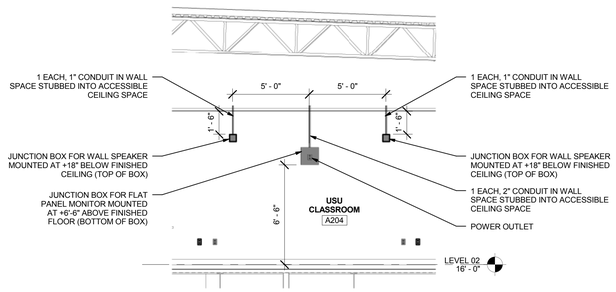
2 USU CLASSROOM A205 TELECOMMUNICATIONS SECTION DETAIL (SOUTH)

SCALE: 1/4" = 1'-0"



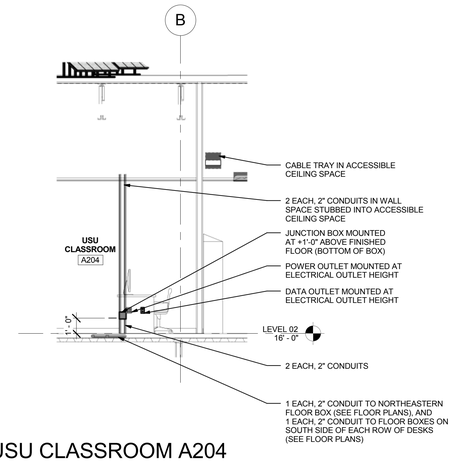
7 USU CLASSROOM A204 TELECOMMUNICATIONS SECTION DETAIL (EAST)

SCALE: 1/4" = 1'-0"



4 USU CLASSROOM A204 TELECOMMUNICATIONS SECTION DETAIL (WEST)

SCALE: 1/4" = 1'-0"



1 USU CLASSROOM A204 TELECOMMUNICATIONS SECTION DETAIL (SOUTH)

SCALE: 1/4" = 1'-0"

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88 South Tooele Blvd
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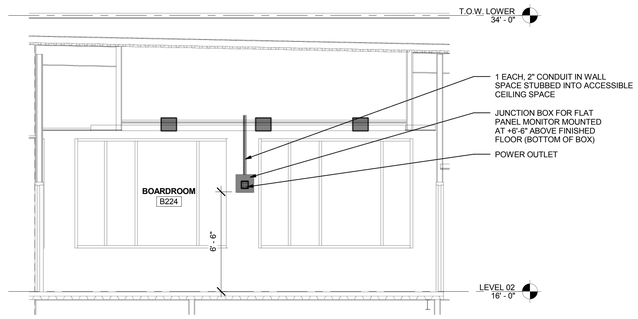
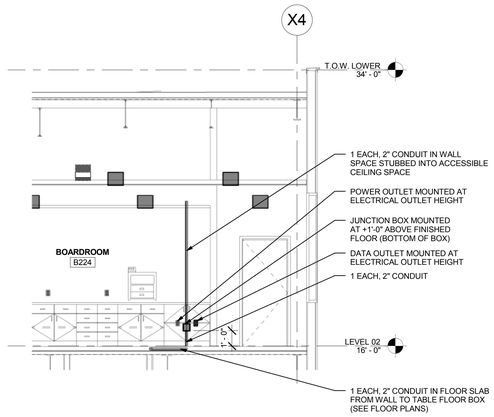


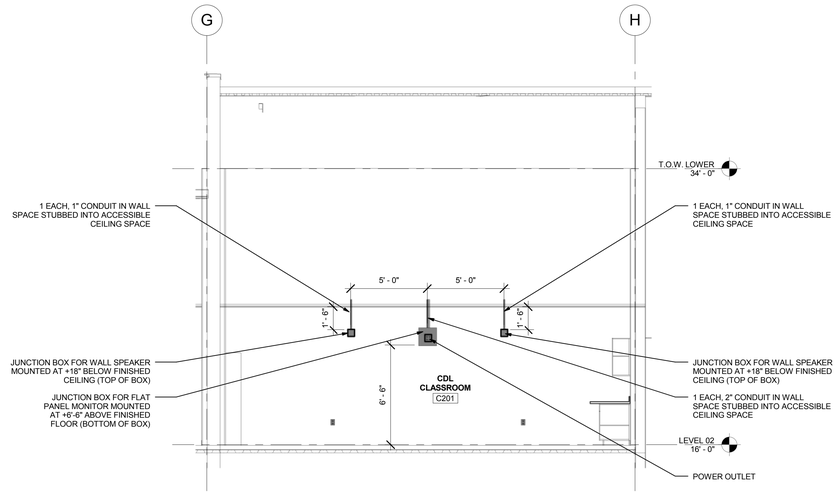
3 BOARDROOM B224 TELECOMMUNICATIONS SECTION DETAIL (SOUTHEAST)

SCALE: 1/4" = 1'-0"



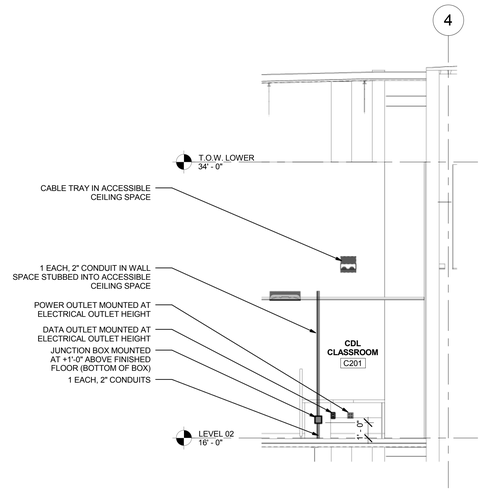
5 BOARDROOM B224 TELECOMMUNICATIONS SECTION DETAIL (NORTHEAST)

SCALE: 1/4" = 1'-0"



2 CDL CLASSROOM C201 TELECOMMUNICATIONS SECTION DETAIL (NORTH)

SCALE: 1/4" = 1'-0"



4 CDL CLASSROOM C201 TELECOMMUNICATIONS SECTION DETAIL (EAST)

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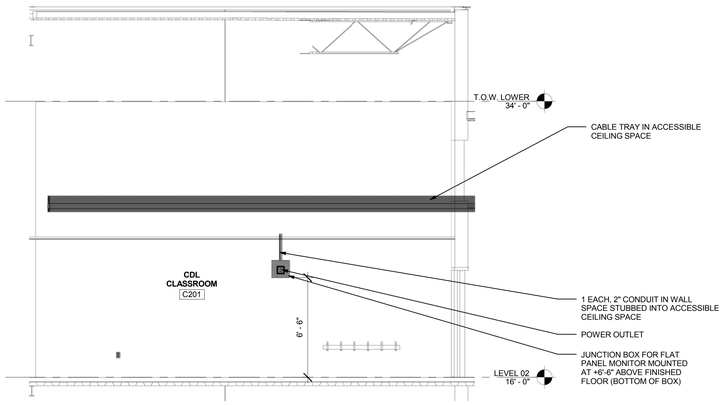

1 CDL CLASSROOM C201 TELECOMMUNICATIONS SECTION DETAIL (SOUTH)

SCALE: 1/4" = 1'-0"

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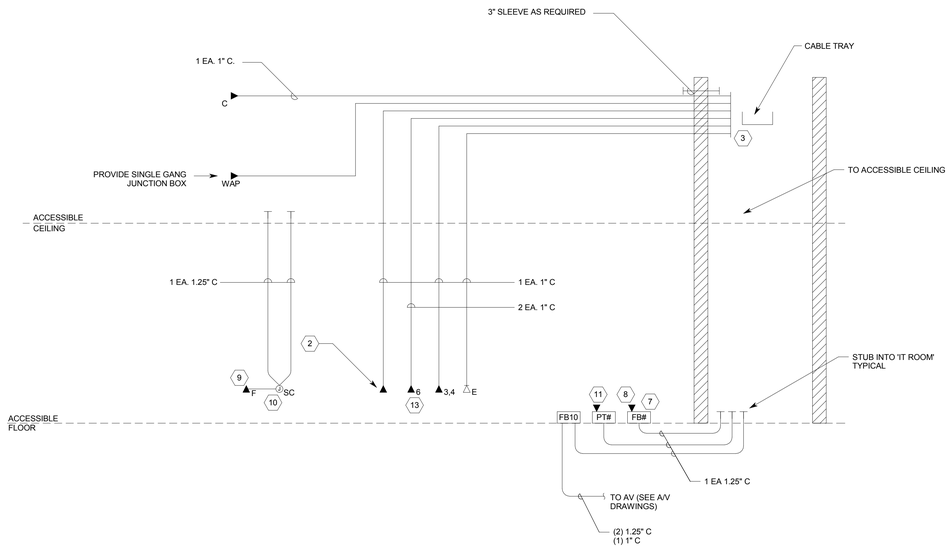
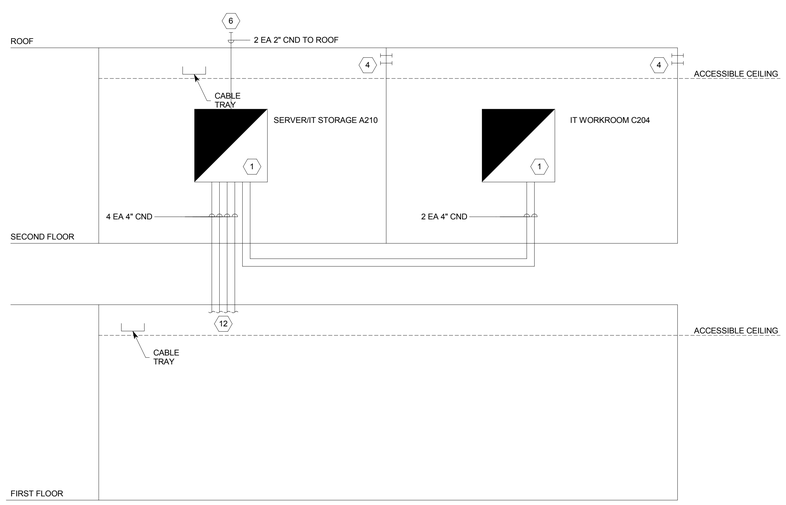


2 VOICE-DATA ROUGH-IN RISER DIAGRAM

NTS



1 VOICE-DATA RACEWAY RISER DIAGRAM

NTS

VOICE-DATA ROUGH-IN SCHEDULE

ELECTRONIC SYSTEMS: REFER TO DIVISION 26 SPECIFICATIONS AND WIRING DEVICE SCHEDULES FOR INSTALLATION REQUIREMENTS. MOUNTING HEIGHTS SHOWN ARE TYPICAL HEIGHTS. REFER TO DRAWINGS, ARCHITECTURAL ELEVATIONS, DRAWINGS AND SPECIFICATIONS FOR ACTUAL MOUNTING HEIGHTS.

SYMBOL	MOUNTING	DESCRIPTION	ROUGH-IN MATERIALS
E	WALL, VERIFY EXACT MOUNTING LOCATION WITH ARCHITECT	EMERGENCY PHONE OUTLET	4-11/16" SQUARE, DEEP JUNCTION BOX WITH SINGLE GANG MUD RING. MOUNT AT ELECTRICAL SWITCH HEIGHT, OR AS NOTED. VERIFY ROUGH-IN PRIOR TO INSTALLATION. PROVIDE VIKING MODEL 1600-02A.
(#) (A)	WALL	DATA OUTLET	4-11/16" SQUARE, DEEP JUNCTION BOX WITH SINGLE GANG MUD RING. MOUNT AT ELECTRICAL OUTLET HEIGHT, OR AS NOTED. (A) INDICATES 'ABOVE COUNTER'.
6	WALL/RACK	AV RACK OUTLET	4-11/16" SQUARE, DEEP JUNCTION BOX WITH DOUBLE GANG MUD RING.
F	FURNITURE	FURNITURE OUTLET	COORDINATE WITH FURNITURE PROVIDED
C	ON CEILING DECK	DATA OUTLET, WIRELESS	4-11/16" SQUARE, DEEP JUNCTION BOX WITH SINGLE GANG MUD RING.
E	WALL AT ELECTRICAL SWITCH HEIGHT	WALL PHONE OUTLET	4-11/16" SQUARE, DEEP JUNCTION BOX WITH SINGLE GANG MUD RING.
	FLOOR	OPEN RAIL DATA EQUIPMENT RACK	FURNISHED AND INSTALLED BY DATA INSTALLER
	FLOOR	SERVER OR AV RACK	FURNISHED AND INSTALLED AS NOTED
	WALL	TELEPHONE BOARD	SEE ARCHITECTURAL ELEVATIONS
	FLOOR/CEILING	CABLE TRAY	PROVIDE SIZE AS NOTED AND DIMENSIONED, TRAPEZE HUNG
	CEILING	LADDER RUNWAY	FURNISHED AND INSTALLED BY DATA INSTALLER
FB#	FLOOR	FLOOR BOX	SEE 'EP' SHEETS
PT#	FLOOR	POKE THRU	SEE 'EP' SHEETS

"A" INDICATES ABOVE COUNTER MOUNTING

GENERAL SHEET NOTES

1. ALL VOICE-DATA OUTLETS ARE TO BE MOUNTED WITHIN 6" OF A POWER OUTLET.
2. ALL VOICE/DATA ROUGH-IN IS TO BE IN COMPLIANCE WITH ANSI/TIA/EIA 569-A.
3. IN EACH DATA ROOM PROVIDE A 2"x12" COPPER GROUNDING BUSS BAR WITH A #2 AWG GROUNDING CONDUCTOR TO THE BUILDING GROUND.
4. COMPLY WITH ALL ROUGH-IN REQUIRED FOR ACOUSTICALLY RATED WALLS.
5. ALL 24"X4" CABLE TRAY INDICATED ON PLANS IS TO HAVE A 4" METAL DIVIDER ALLOWING FOR 6" OF SPACE FOR THE AV CABLE AND 18" SPACE FOR THE DATA CABLE VERIFY EXACT AMOUNT WITH AV INSTALLER PRIOR TO INSERTION.
6. FOR ALL FLOOR BOXES AND CONDUIT TERMINATIONS TO FURNITURE VERIFY EXACT LOCATION W/ARCHITECT AND FURNITURE SUPPLY PRIOR TO INSTALLATION.

SHEET KEYNOTES

1. PROVIDE 0.75" THICK X 8" HIGH FIRE-TREATED, PAINTED PLYWOOD ON ALL WALLS OF COMMUNICATIONS ROOMS.
2. TYPICAL VOICE-DATA OUTLETS. PROVIDE 4-11/16" X 4-11/16" JUNCTION BOX WITH SINGLE GANG MUD RING. MOUNT AT ELECTRICAL OUTLET OR AS NOTED (TYPICAL FOR SYMBOLS SHOWN).
3. STUB CONDUITS ALL THE WAY TO CABLE TRAY. PROVIDE INSULATED THROATS.
4. STUB 2 EACH, 4" CONDUIT SLEEVES THROUGH WALL ABOVE CEILING INTO COMMUNICATIONS ROOM.
5. STUB TO ACCESSIBLE TUNNEL SPACE IN EXISTING BUILDING.
6. STUB CONDUITS TO ROOF. PROVIDE FLASHING, CAP, AND POKE-THRU.
7. TYPICAL FLOORBOX APPLIES TO ALL FLOORBOX TYPES INDICATED ON PLANS.
8. PROVIDE CONDUIT WHETHER OR NOT DATA SYMBOL IS SHOWN.
9. FURNITURE TERMINATION.
10. 4-11/16" SQUARE JUNCTION BOX LOCATED AT FURNITURE RACEWAY ENTRANCE.
11. TYPICAL POKE-THRU APPLIES TO ALL POKE-THRU TYPES INDICATED ON PLANS.
12. STUBBED TO CABLE TRAY BELOW.
13. TYPICAL VOICE-DATA OUTLETS. PROVIDE 4-11/16" X 4-11/16" JUNCTION BOX WITH DOUBLE GANG MUD RING. MOUNT AT ELECTRICAL OUTLET OR AS NOTED (TYPICAL FOR SYMBOLS SHOWN).

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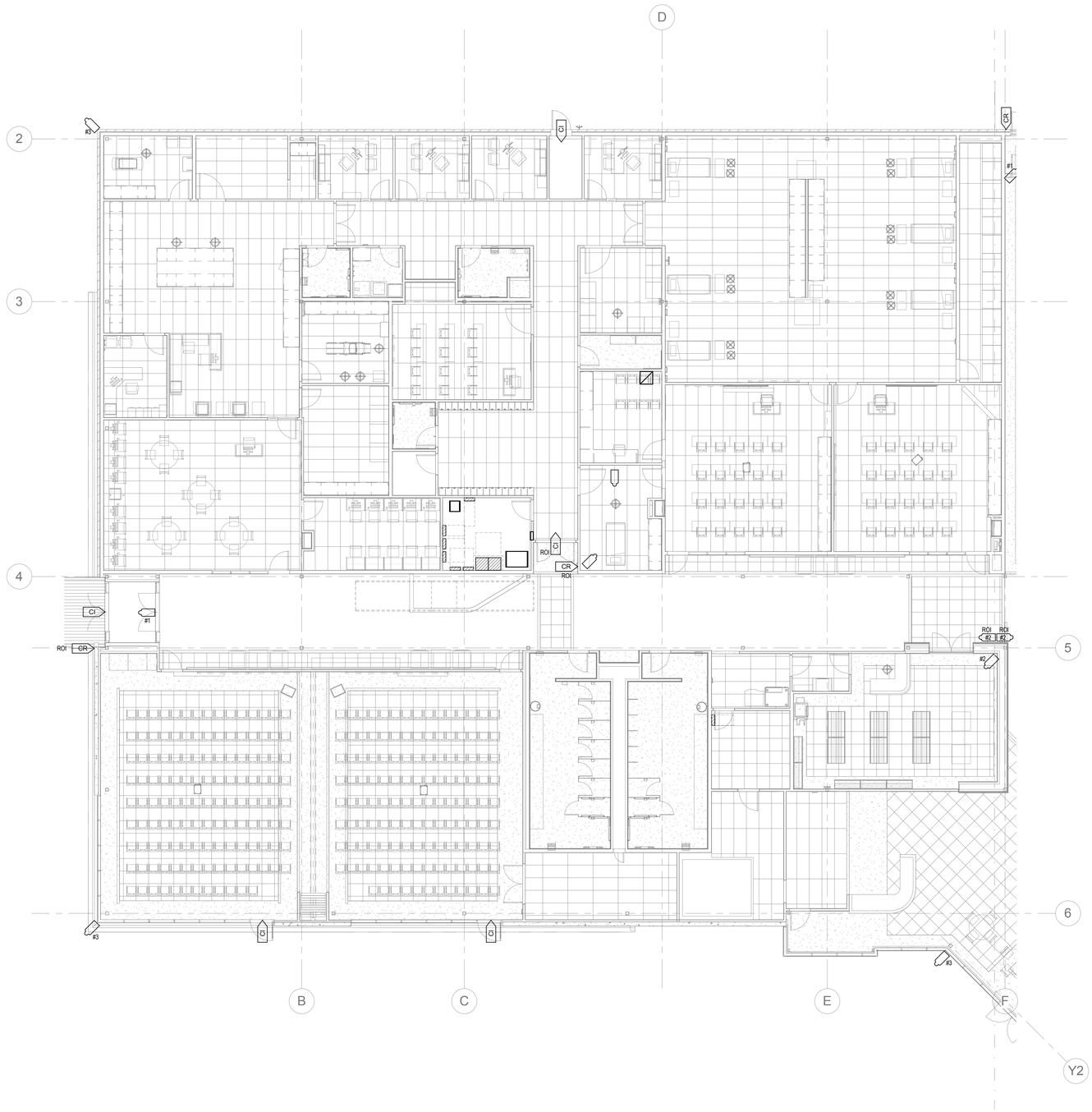
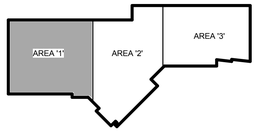


1 LEVEL 1 AUXILIARY CEILING PLAN - AREA '1'
SCALE: 1/8" = 1'-0"

PROJECT NORTH
TRUE NORTH

GENERAL SHEET NOTES

SHEET KEYNOTES



REGISTERED PROFESSIONAL ENGINEER No. 176[illegible] STATE OF UTAH
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METHOD STUDIO INC.
925 south west temple
salt lake city, utah 84101
phone:(801) 532-4422

consultants:

SPECTRUM ENGINEERS
324 S. State St., Suite 400
Salt Lake City, UT 84111
800-678-7077
801-328-5151
fax: 801-328-5155
www.spectrum-engineers.com

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project:
TOOELE APPLIED TECHNOLOGY COLLEGE - NEW BUILDING

88 South Tooele Blvd
Tooele, UT 84074

project#: 11.0420
date: 1/20/11

revisions :

Level 1 Auxiliary Plan - Area '1'

sheet:
EY111

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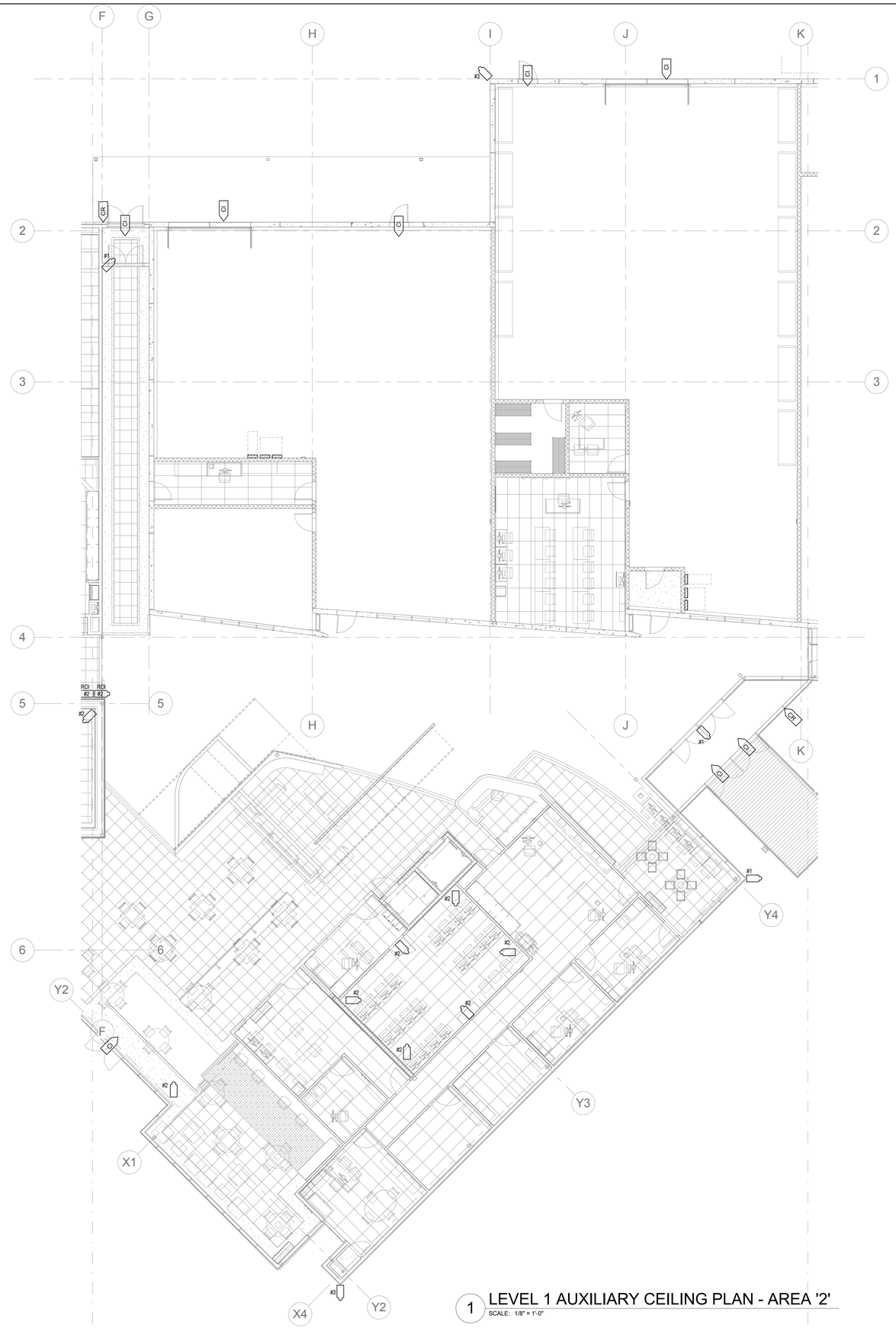
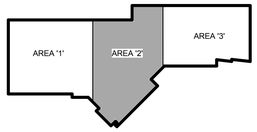


1 LEVEL 1 AUXILIARY CEILING PLAN - AREA '2'
SCALE: 1/8" = 1'-0"

PROJECT NORTH
TRUE NORTH



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SHEET NOTES

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project:
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88 South Tooele Blvd
Tooele, UT 84074

project#: 11.0420
date: 1/20/11

revisions :

Level 1 Auxiliary Plan - Area '2'

sheet:

EY112

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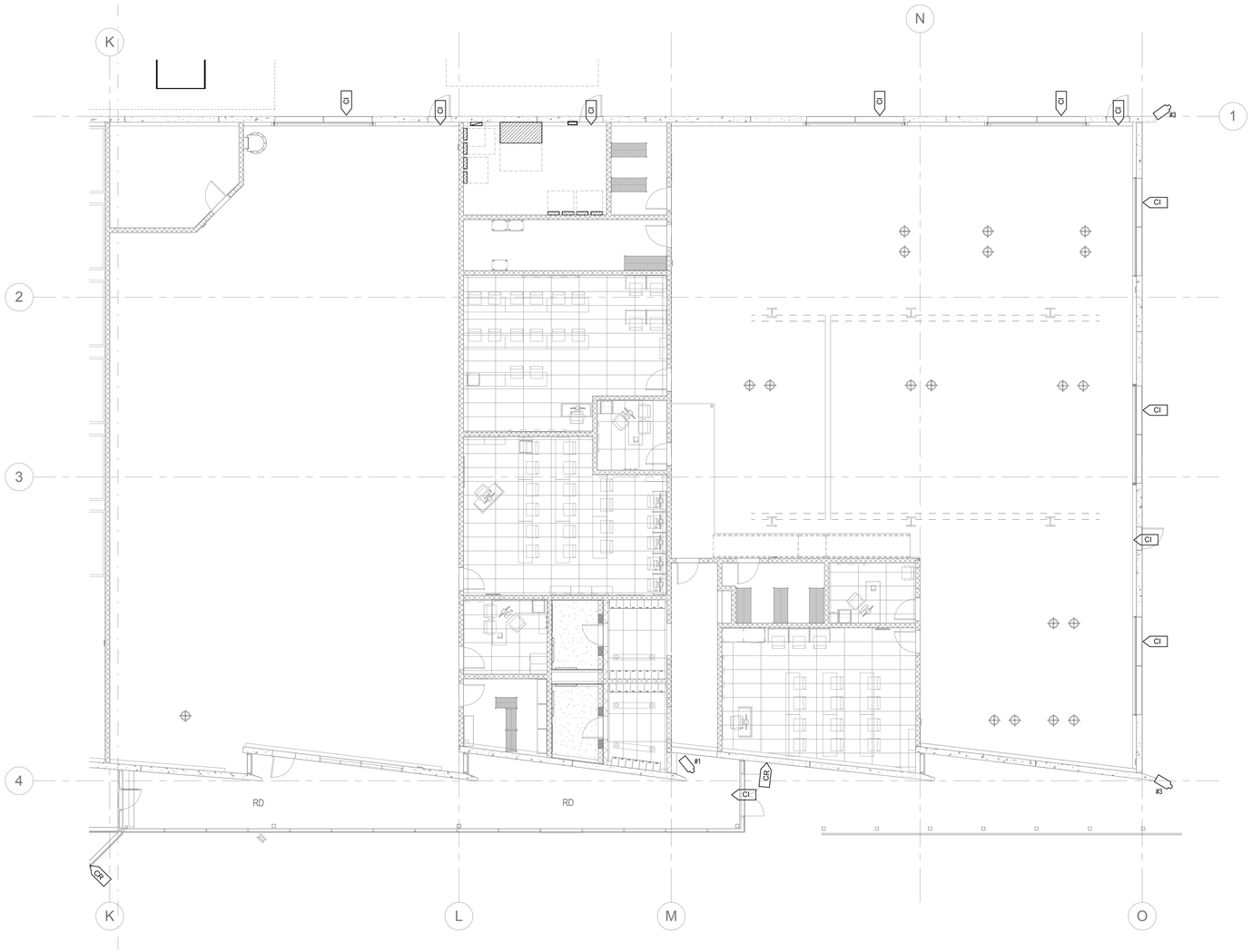
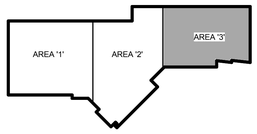


1 LEVEL 1 AUXILIARY CEILING PLAN - AREA '3'
SCALE: 1/8" = 1'-0"

PROJECT NORTH TRUE NORTH

GENERAL SHEET NOTES

SHEET KEYNOTES



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project:
TOOELE APPLIED TECHNOLOGY COLLEGE - NEW BUILDING

88 South Tooele Blvd
Tooele, UT 84074

project#: 11.0420
date: 1/20/11

revisions :

Level 1 Auxiliary Plan - Area '3'

sheet:

EY113

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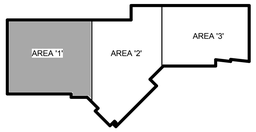
1 LEVEL 2 AUXILIARY PLAN - AREA '1'

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

PROJECT NORTH TRUE NORTH



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project:

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88 South Tooele Blvd
Tooele, UT 84074

project#: 11.0420
date: 1/20/11

revisions :

Level 2 Auxiliary Plan - Area '1'

sheet:

EY121

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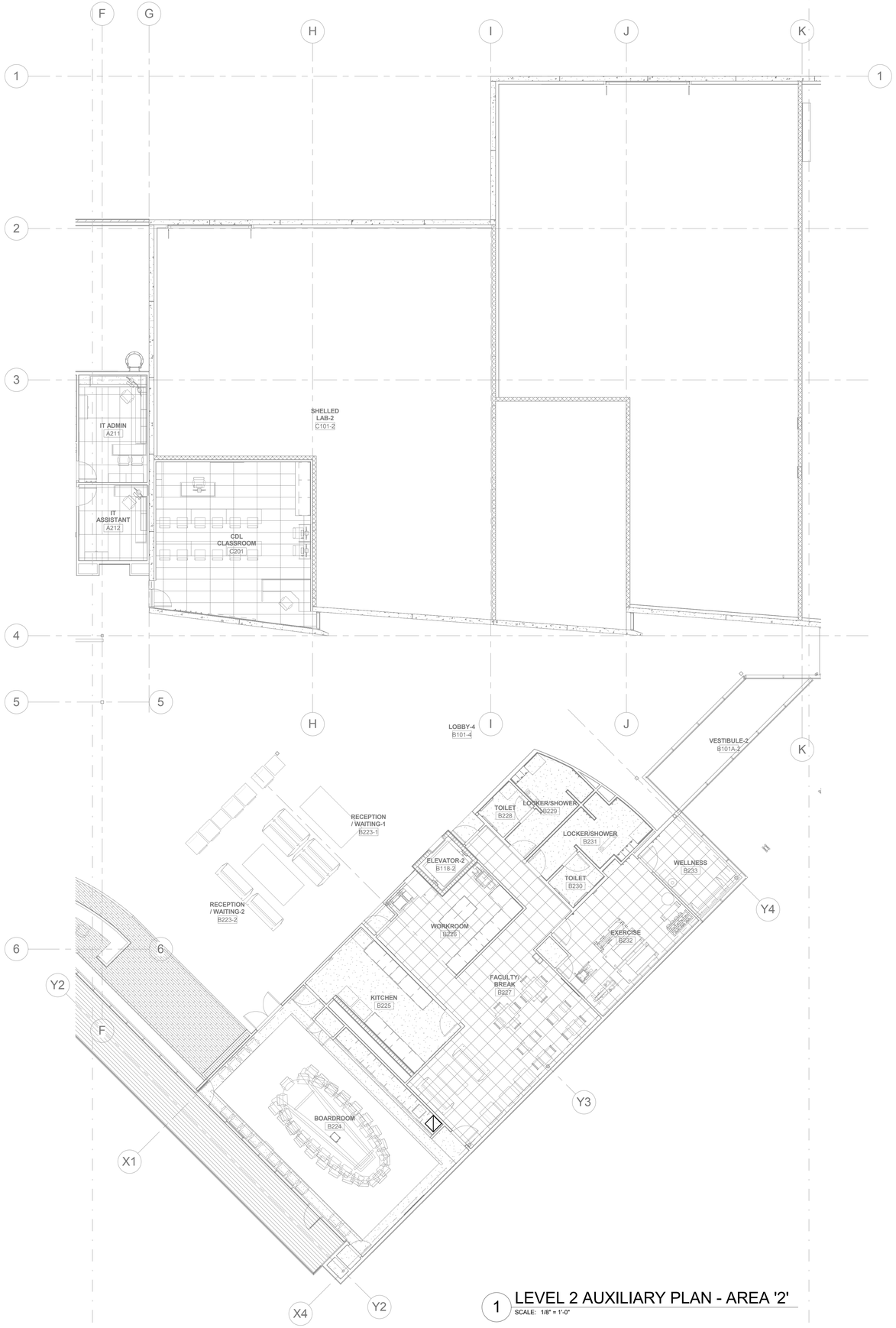
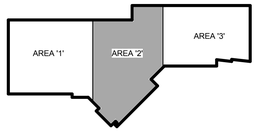


1 LEVEL 2 AUXILIARY PLAN - AREA '2'

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

PROJECT NORTH TRUE NORTH



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Tooele, UT 84074

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revisions :

Level 2 Auxiliary Plan - Area '2'

sheet:

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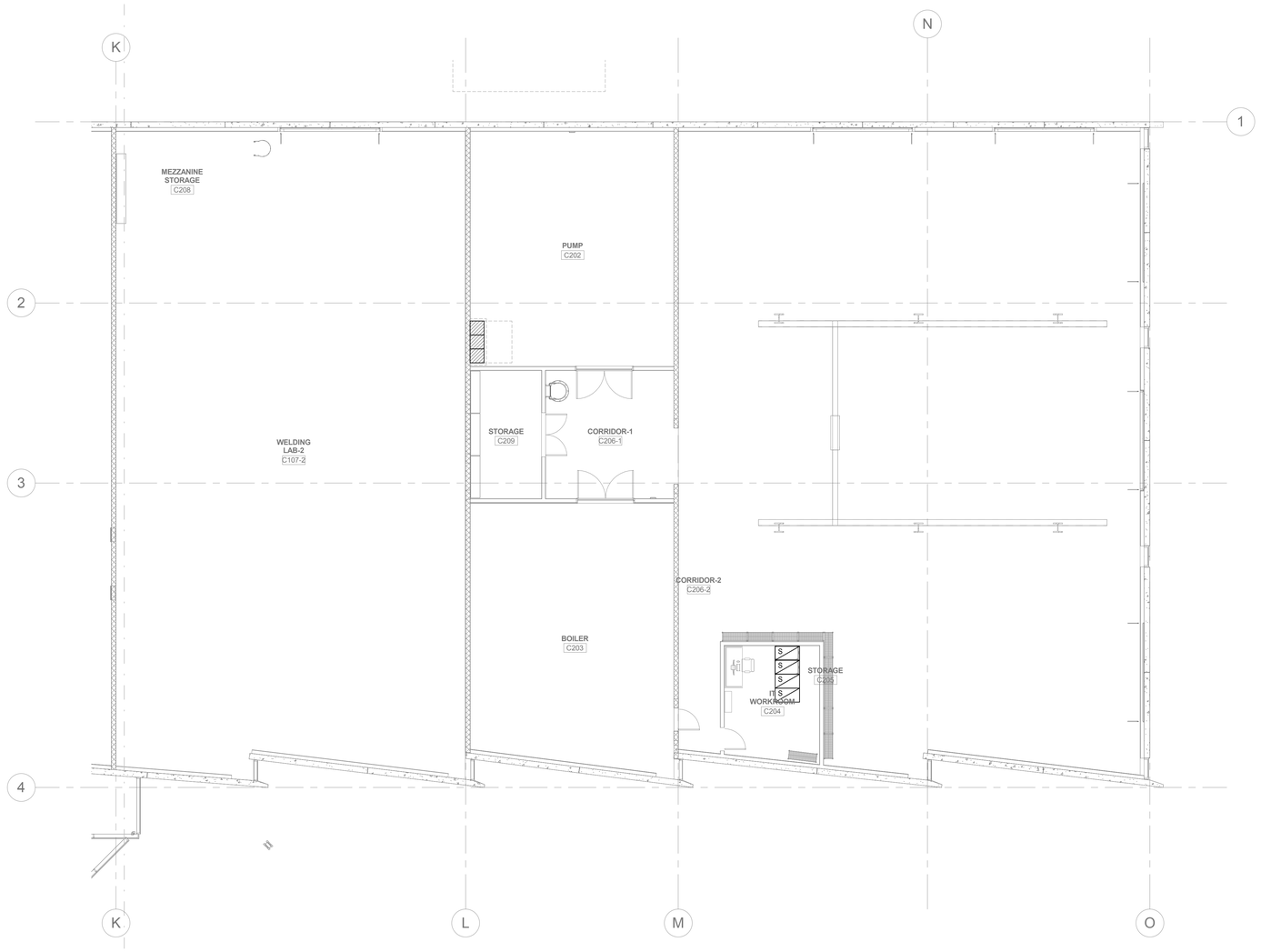


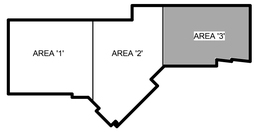
1 LEVEL 2 AUXILIARY PLAN - AREA '3'

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

PROJECT NORTH TRUE NORTH

GENERAL SHEET NOTES

SHEET KEYNOTES



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88 South Tooele Blvd
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project#: 11.0420
date: 1/20/11

revisions :

Level 2 Auxiliary Plan - Area '3'

sheet:

EY123

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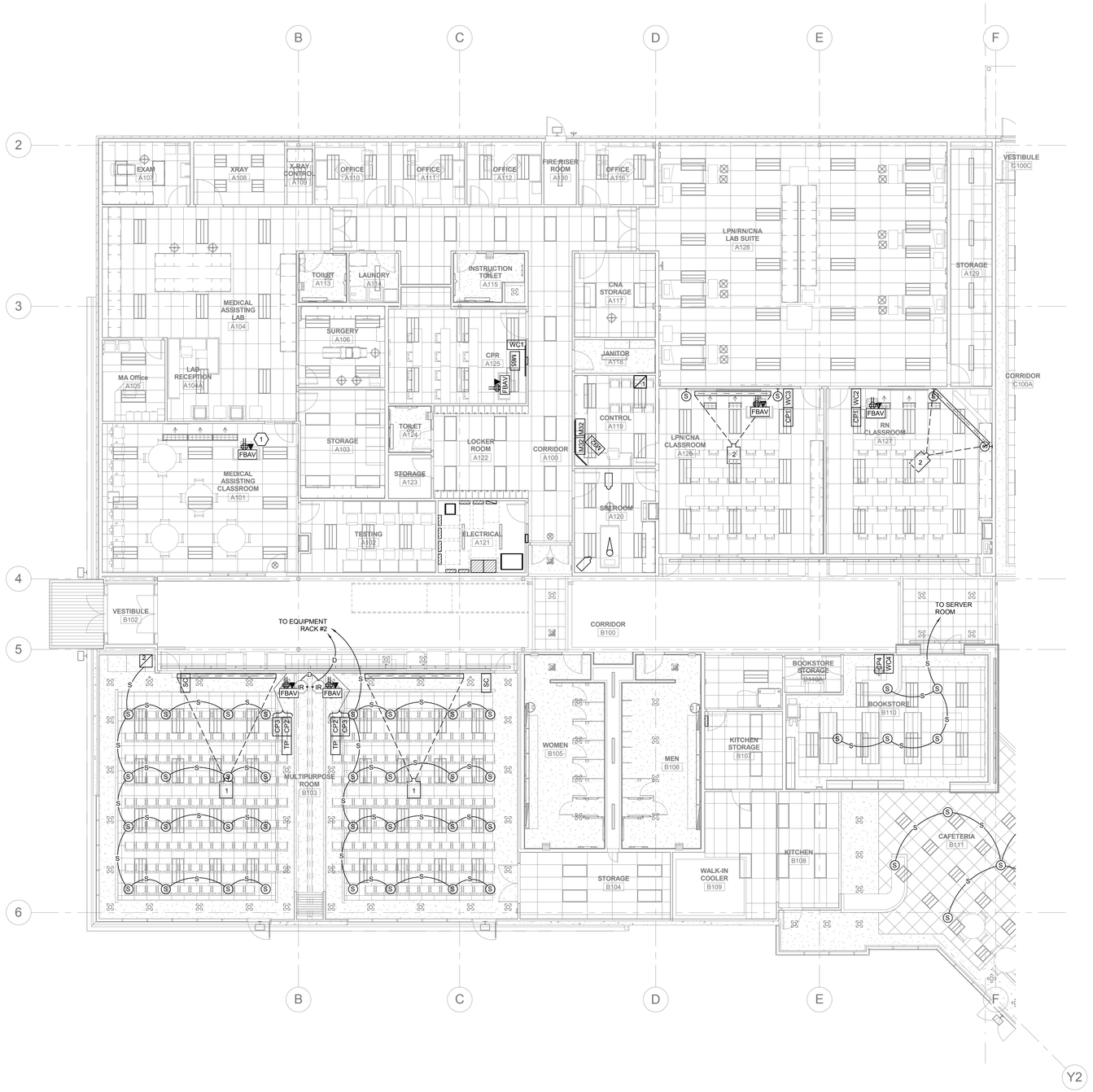
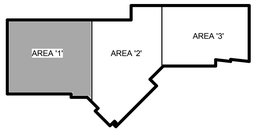


1 LEVEL 1 AUDIO-VIDEO PLAN - AREA '1'

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

PROJECT NORTH TRUE NORTH



SHEET KEYNOTES

1 PROVIDE AUDIO-VIDEO ROUGH-IN ONLY IN THIS ROOM.

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project:

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88 South Tooele Blvd
Tooele, UT 84074

project#: 11.0420
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revisions :

Level 1 Audio-Video Plan - Area '1'

sheet:

EJ111

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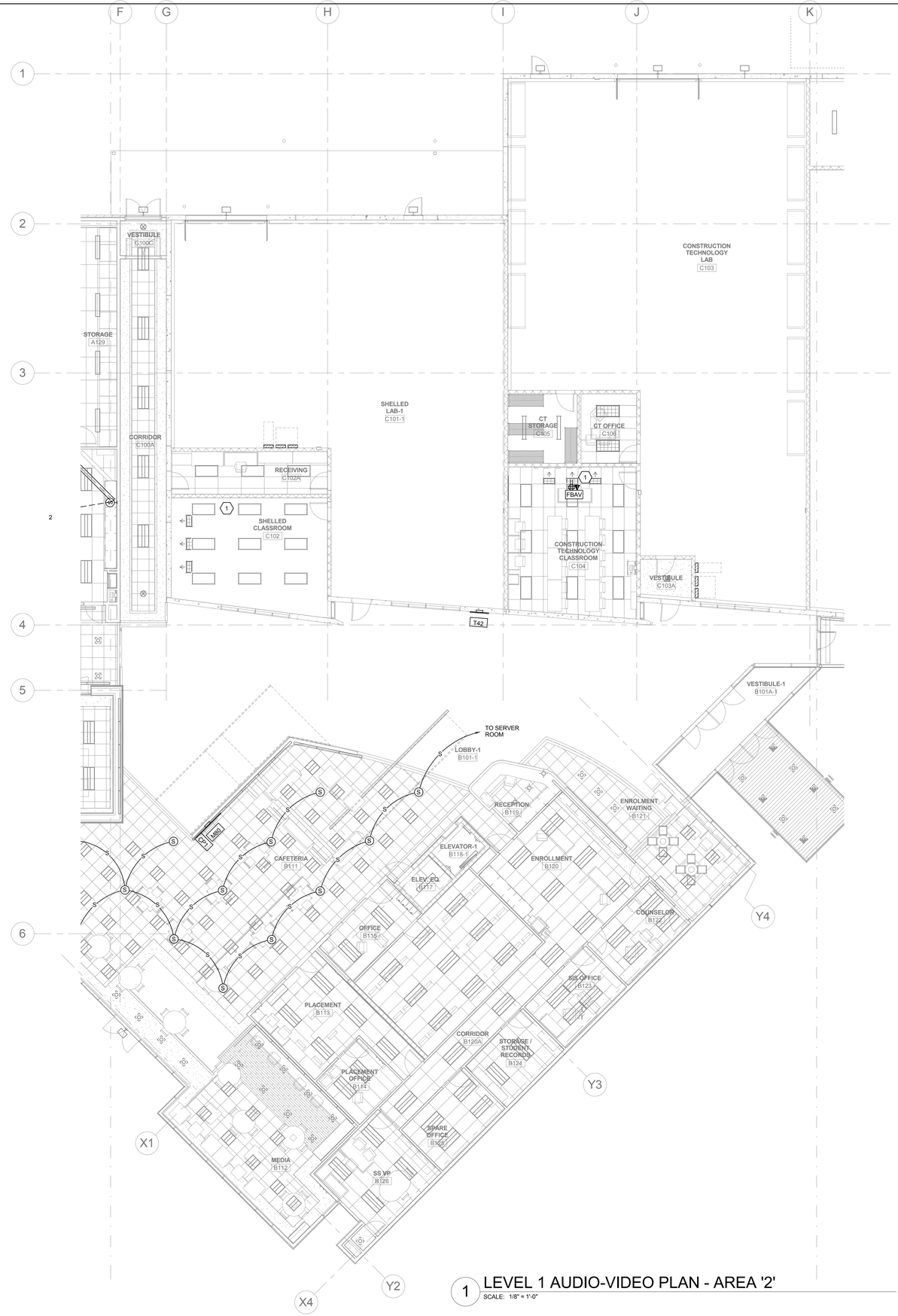


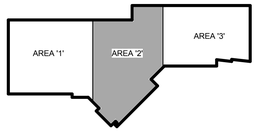
1 LEVEL 1 AUDIO-VIDEO PLAN - AREA '2'

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

PROJECT NORTH TRUE NORTH

SHEET KEYNOTES

1 PROVIDE AUDIO-VIDEO ROUGH-IN ONLY IN THIS ROOM.



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88 South Tooele Blvd
Tooele, UT 84074

project#: 11.0420
date: 1/20/11

revisions :

Level 1 Audio-Video Plan - Area '2'

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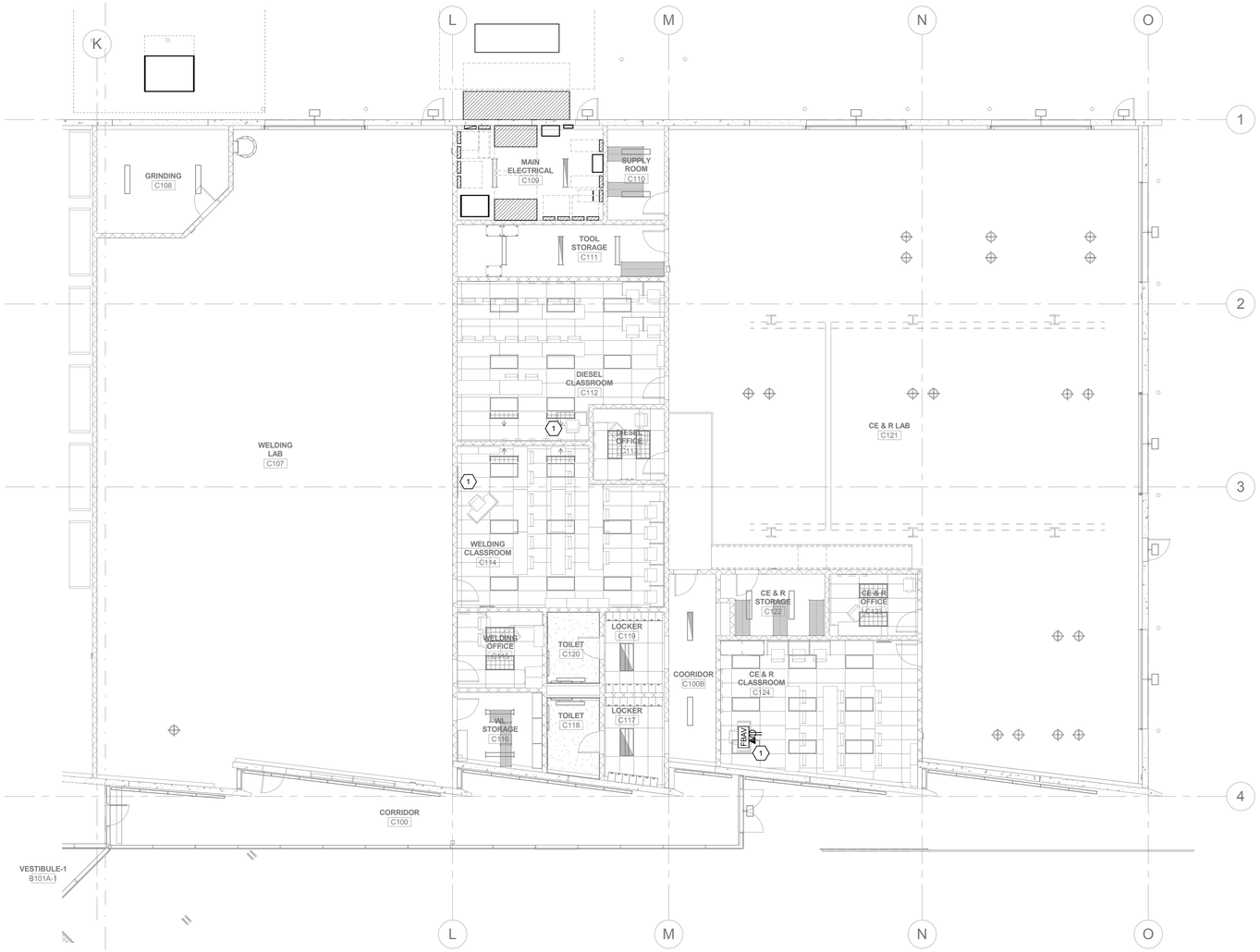


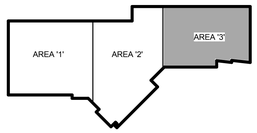
1 LEVEL 1 AUDIO-VIDEO PLAN - AREA '3'

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

PROJECT NORTH TRUE NORTH

SHEET KEYNOTES

1 PROVIDE AUDIO-VIDEO ROUGH-IN ONLY IN THIS ROOM.



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revisions :

Level 1 Audio-Video Plan - Area '3'

sheet:

EJ113

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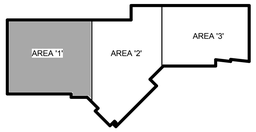
1 LEVEL 2 AUDIO-VIDEO PLAN - AREA '1'

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

PROJECT NORTH TRUE NORTH



SHEET KEYNOTES

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project#: 11.0420
date: 1/20/11

revisions :

Level 2 Audio-Video Plan - Area '1'

sheet:

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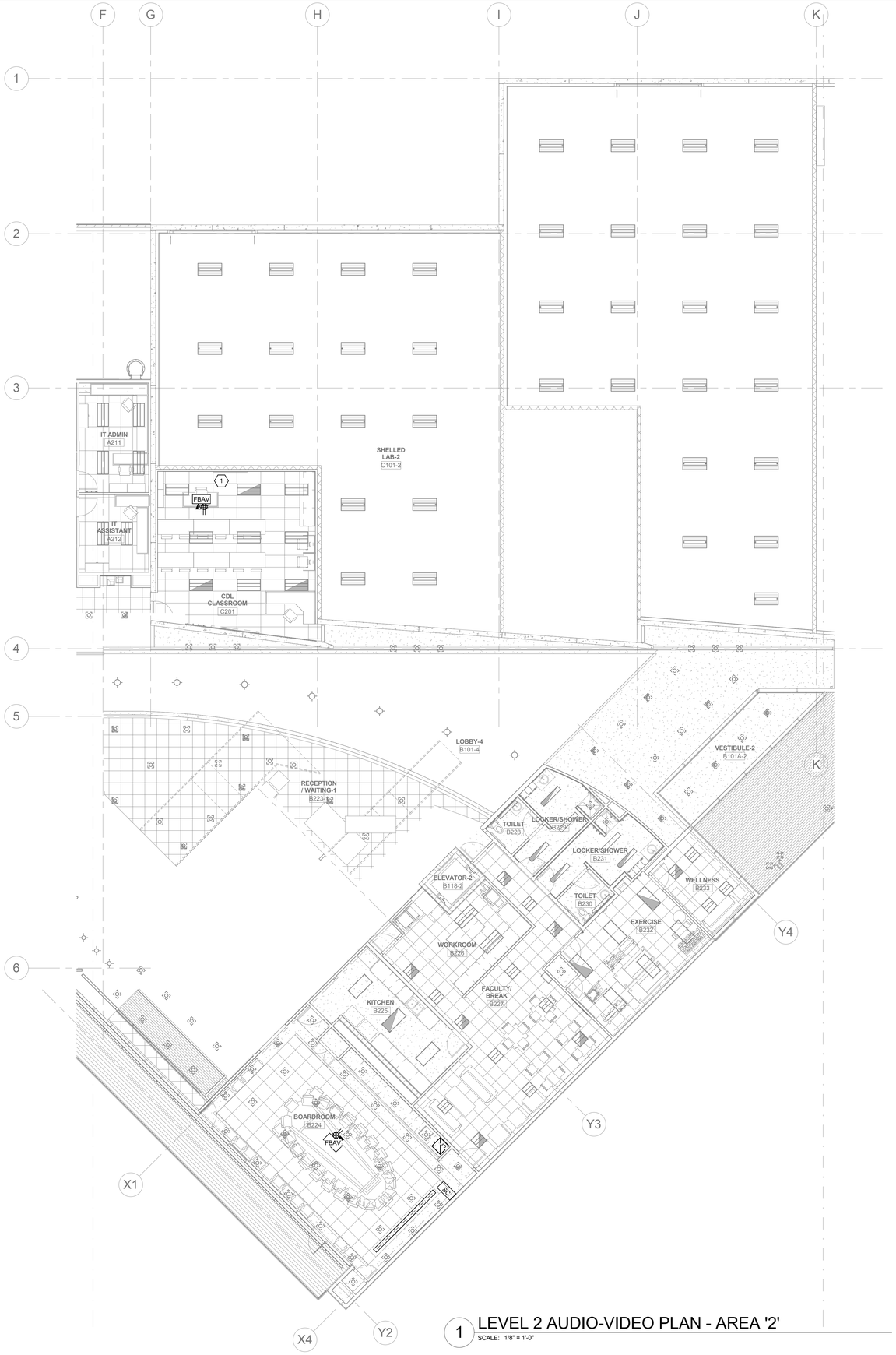

1 LEVEL 2 AUDIO-VIDEO PLAN - AREA '2'

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

PROJECT NORTH TRUE NORTH

SHEET KEYNOTES

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REGISTERED PROFESSIONAL ENGINEER No. 7862 STATE OF UTAH

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revisions :

Level 2 Audio-Video Plan - Area '2'

sheet:

EJ122

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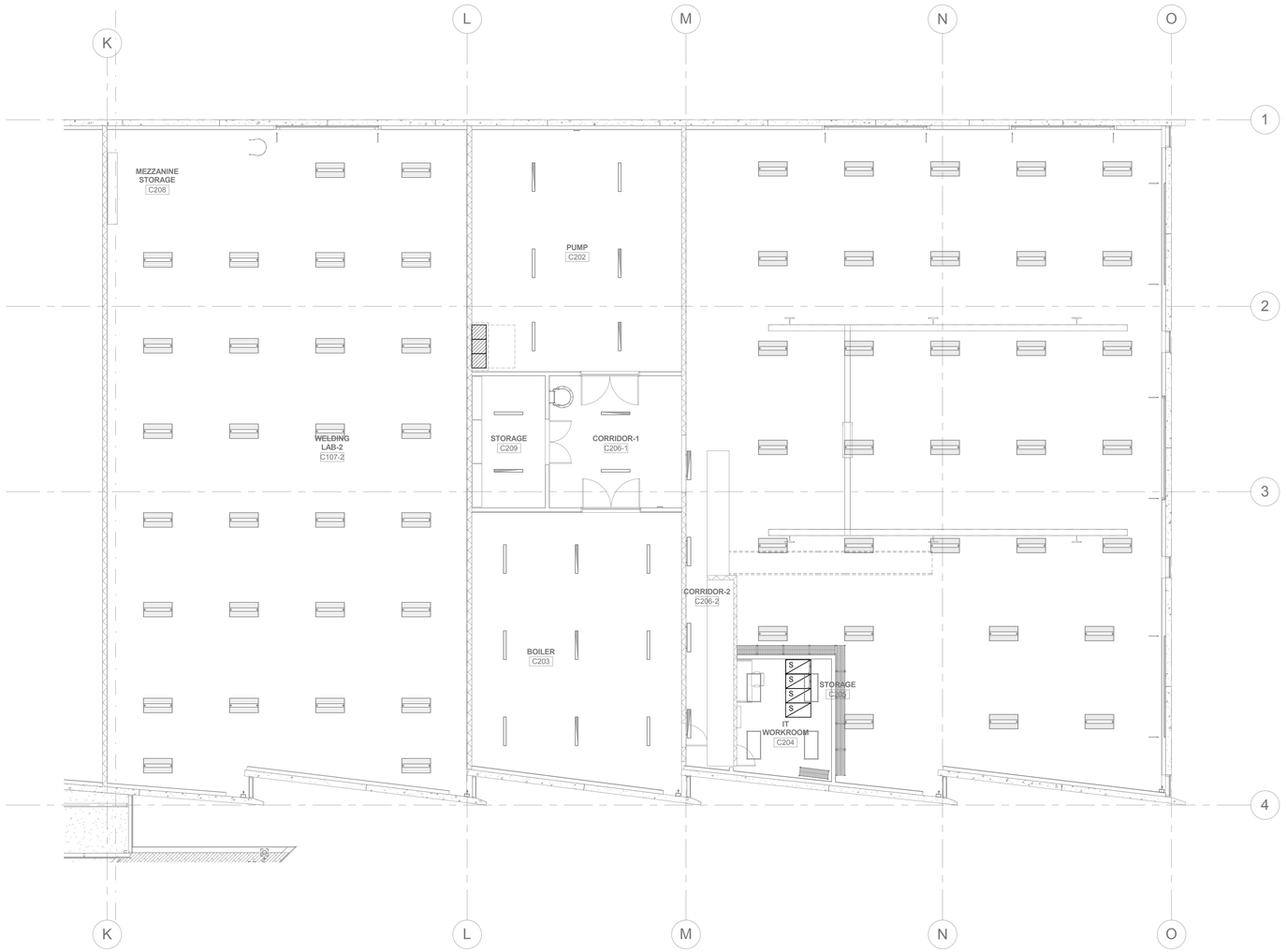
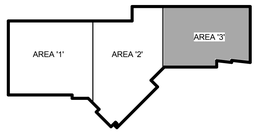


1 LEVEL 2 AUDIO-VIDEO PLAN - AREA '3'

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

PROJECT NORTH TRUE NORTH



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project:

TOOELE APPLIED TECHNOLOGY COLLEGE - NEW BUILDING

88 South Tooele Blvd
Tooele, UT 84074

project#: 11.0420
date: 1/20/11

revisions :

Level 2 Audio-Video Plan - Area '3'

sheet:

EJ123

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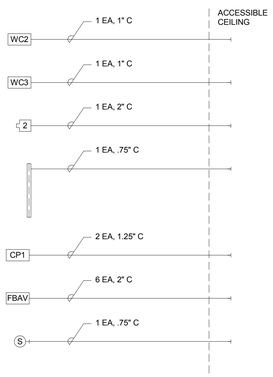
AV ROUGH-IN EQUIPMENT SCHEDULE

SYMBOL	DESCRIPTION	MOUNTING	SPECIAL INSTRUCTIONS
#	PROJECTOR JUNCTION BOX, 4" X 4" X 4"	ABOVE FINISHED CEILING, COORDINATE LOCATION W/ DISPLAY DEVICE SCHEDULE	LOCATE PERPENDICULAR TO CENTER OF PROJECTION SCREEN
SC	PROJECTION SCREEN CONTROL JUNCTION BOX, 4" SQUARE W/ 1 GANG MUD RING	FLUSH IN WALL AT ELECTRICAL SWITCH HEIGHT	
TP	TOUCH PANEL BACK BOX	WALL AT ELECTRICAL SWITCH HEIGHT	CRESTRON PMK-4L
CP1 CP2	JUNCTION BOX, 4-11/16" SQUARE W/ 2 GANG MUD RING	AT ELECTRICAL OUTLET HEIGHT UNLESS OTHERWISE NOTED	
FBAV	FLOOR BOX	FLOOR	SEE 'EP' SHEETS
CP3 CP4	JUNCTION BOX, 4-11/16" SQUARE W/ SINGLE GANG MUD RING	FLUSH IN WALL AT ELECTRICAL OUTLET HEIGHT	
WC1 WC2 WC3 WC4	WALL CONTROL PANEL, 3 GANG JUNCTION BOX	FLUSH IN WALL AT ELECTRICAL SWITCH HEIGHT	
	PROJECTION SCREEN, RECESSED, MOTORIZED	CEILING	
M32	FLAT PANEL MONITOR	WALL ABOVE DESK	VERIFY EXACT MOUNTING WITH ARCHITECT
T42 M55 M65 M80	FLAT PANEL MONITOR, CHIEF PAC501	WALL AT APPROXIMATELY 63" AFF	VERIFY EXACT MOUNTING WITH ARCHITECT
IR	INFRARED SENSORS, 4-11/16" SQUARE W/ DOUBLE GANG MUD RING	FLUSH IN FINISHED CEILING	
S	SPEAKER ENCLOSURE	FLUSH IN FINISHED CEILING	FURNISHED AND INSTALLED BY AV INSTALLER
S	SPEAKER WALL MOUNT, SINGLE GANG JUNCTION BOX	WALL AT 12" BELOW FINISHED CEILING	SEE DETAIL 2/EJ601
1	EQUIPMENT RACK #1	FLOOR	FURNISHED AND INSTALLED BY AV INSTALLER
2	EQUIPMENT RACK #2	WALL	FURNISHED AND INSTALLED BY AV INSTALLER
3	EQUIPMENT RACK #3	FLOOR	FURNISHED AND INSTALLED BY AV INSTALLER

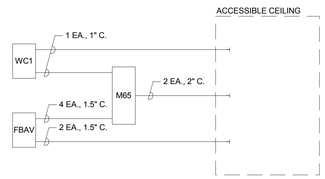
GENERAL SHEET NOTES

1. INSTALL ALL CONDUIT IN A CONCEALED FASHION. SURFACE MOUNTED CONDUIT WILL NOT BE ACCEPTED.
2. MAINTAIN MAXIMUM SEPARATION BETWEEN A/V SYSTEM CONDUIT AND ALL POWER CONDUIT.
3. INSTALL NYLON PULL STRINGS IN ALL A/V SYSTEM CONDUIT.
4. SUPPORT THE ENTIRE WEIGHT OF ALL SPEAKER ENCLOSURES FROM THE BUILDING STRUCTURE.
5. IF THE BOXES, ENCLOSURES, & CABINETS SPECIFIED ARE NOT PROVIDED FROM THE MANUFACTURER WITH THE REQUIRED KNOCK OUTS FOR THE SPECIFIED CONDUIT, FIELD CUT ALL REQUIRED KNOCK OUTS TO TERMINATE THE QUANTITY AND SIZES OF THE SPECIFIED CONDUITS.
6. THE ROUGH-IN LOCATIONS FOR PROJECTORS (P) SHOWN ON THE FLOOR PLAN DRAWINGS ARE APPROXIMATE. REFER TO THE DISPLAY DEVICE SCHEDULE FOR ACTUAL PROJECTION DISTANCES. LOCATE ROUGH-IN FOR PROJECTORS IN COMPLIANCE WITH THE DISPLAY DEVICE SCHEDULE.
7. ALL ROUGH-IN SHALL BE IN COMPLIANCE WITH ANSI/TIA/EIA 569-A.



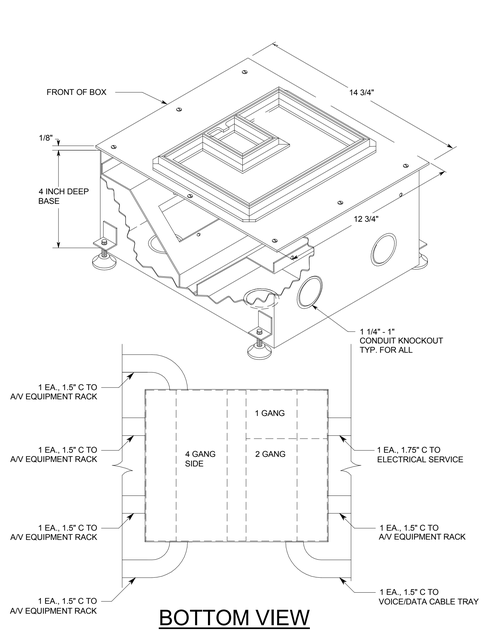
7 CLASSROOM AV RACEWAY RISER DIAGRAM

NTS - (TYPICAL OF A126, A127)



5 STANDARD CLASSROOM ROUGH-IN RISER DIAGRAM

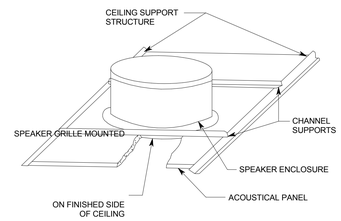
NTS - (TYPICAL A101, A125, C102, C104, C112, C114, C124, A201, A207, C201)



4 FLOOR BOX TERMINATION DETAIL

NTS

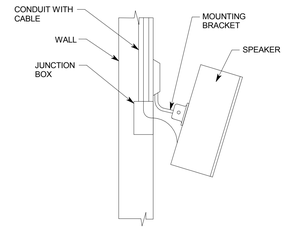
FBAV



3 CEILING SPEAKER MOUNTING DETAIL

NTS

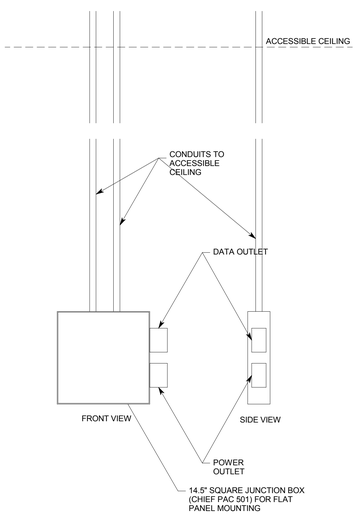
S



2 WALL SPEAKER MOUNTING DETAIL

NTS

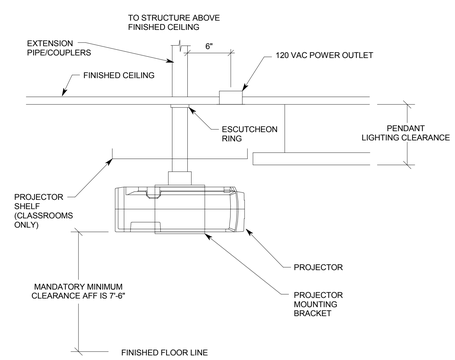
S



6 FLAT PANEL MONITOR MOUNTING DETAIL

NTS

T42 M55 M65 M80



NOTES:

1. INSTALL PROJECTOR AS TIGHT TO THE CEILING AS POSSIBLE.
2. MOUNT PROJECTOR SUCH THAT THERE IS NO INTERFERENCE FROM THE PENDANT LIGHT FIXTURES.

1 PROJECTOR MOUNTING DETAIL

NTS

#

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88 South Tooele Blvd
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project#: 11.0420
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revisions :

Audio-Video Rough-In Details

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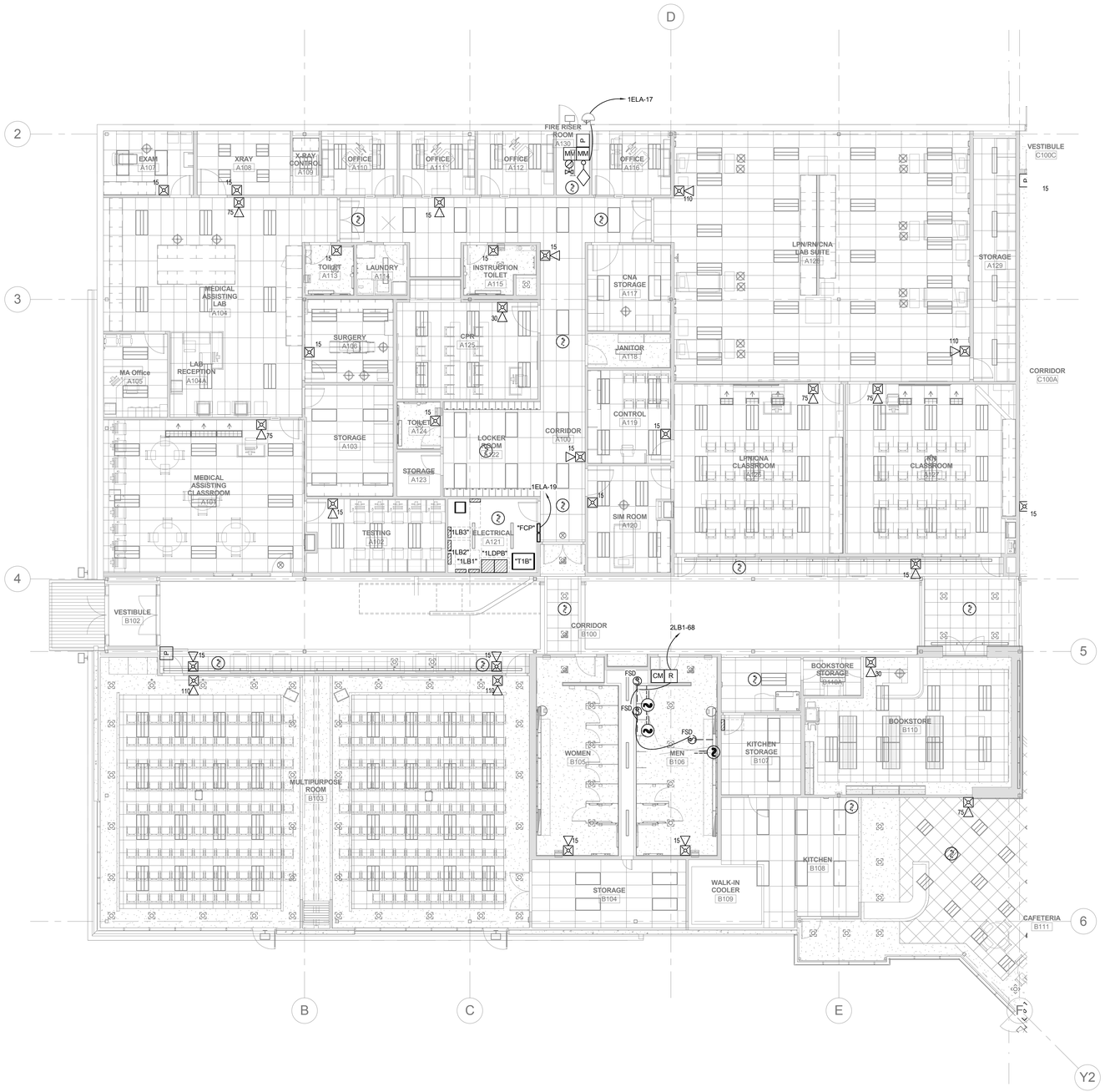
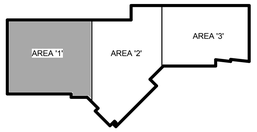


1 LEVEL 1 FIRE ALARM PLAN - AREA '1'

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

PROJECT NORTH TRUE NORTH



GENERAL SHEET NOTES

SHEET KEYNOTES

REGISTERED PROFESSIONAL ENGINEER No. 7962 STATE OF UTAH

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Level 1 Fire Alarm Plan - Area '1'

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FA111

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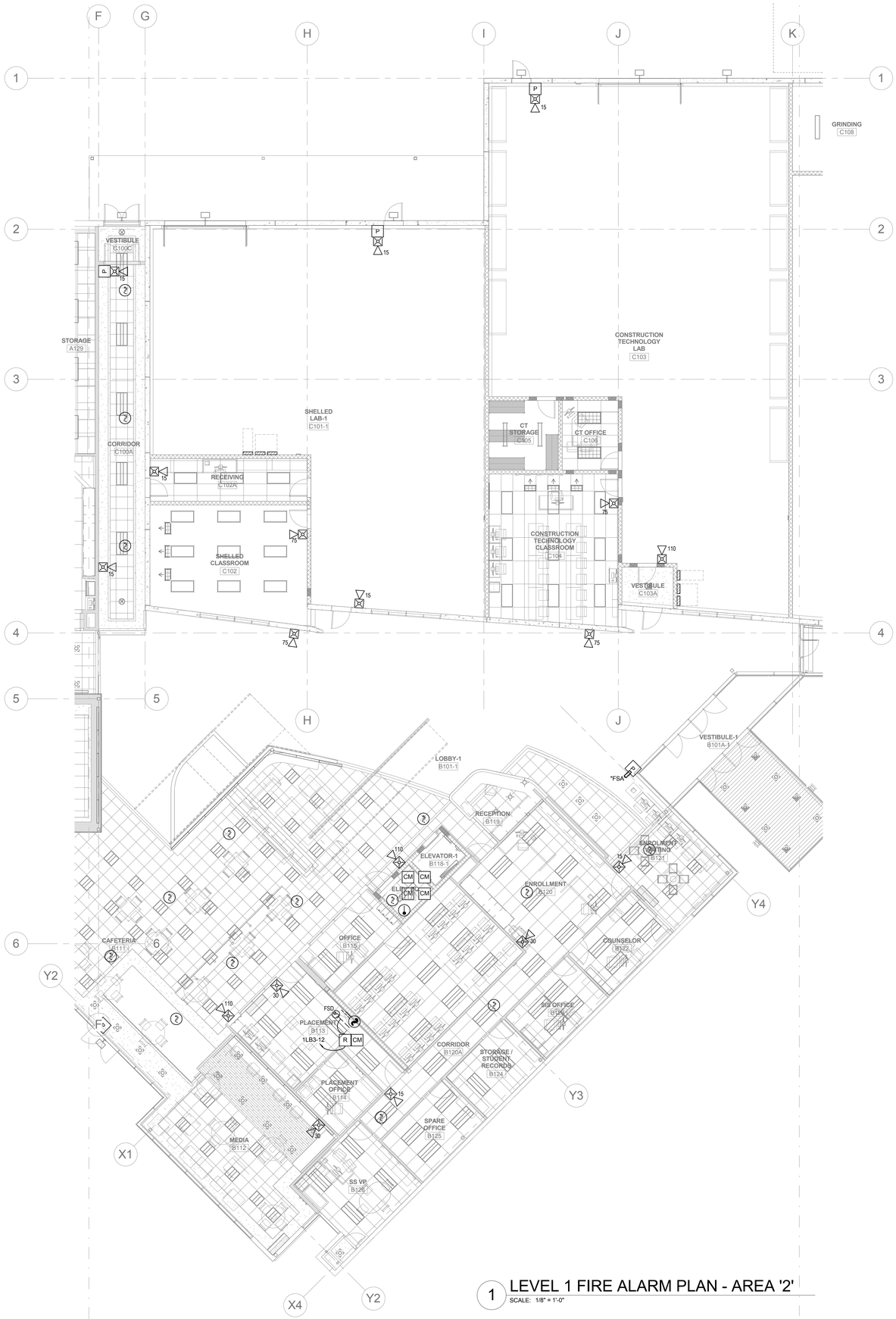

1 LEVEL 1 FIRE ALARM PLAN - AREA '2'

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

PROJECT NORTH TRUE NORTH

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Level 1 Fire Alarm Plan - Area '2'

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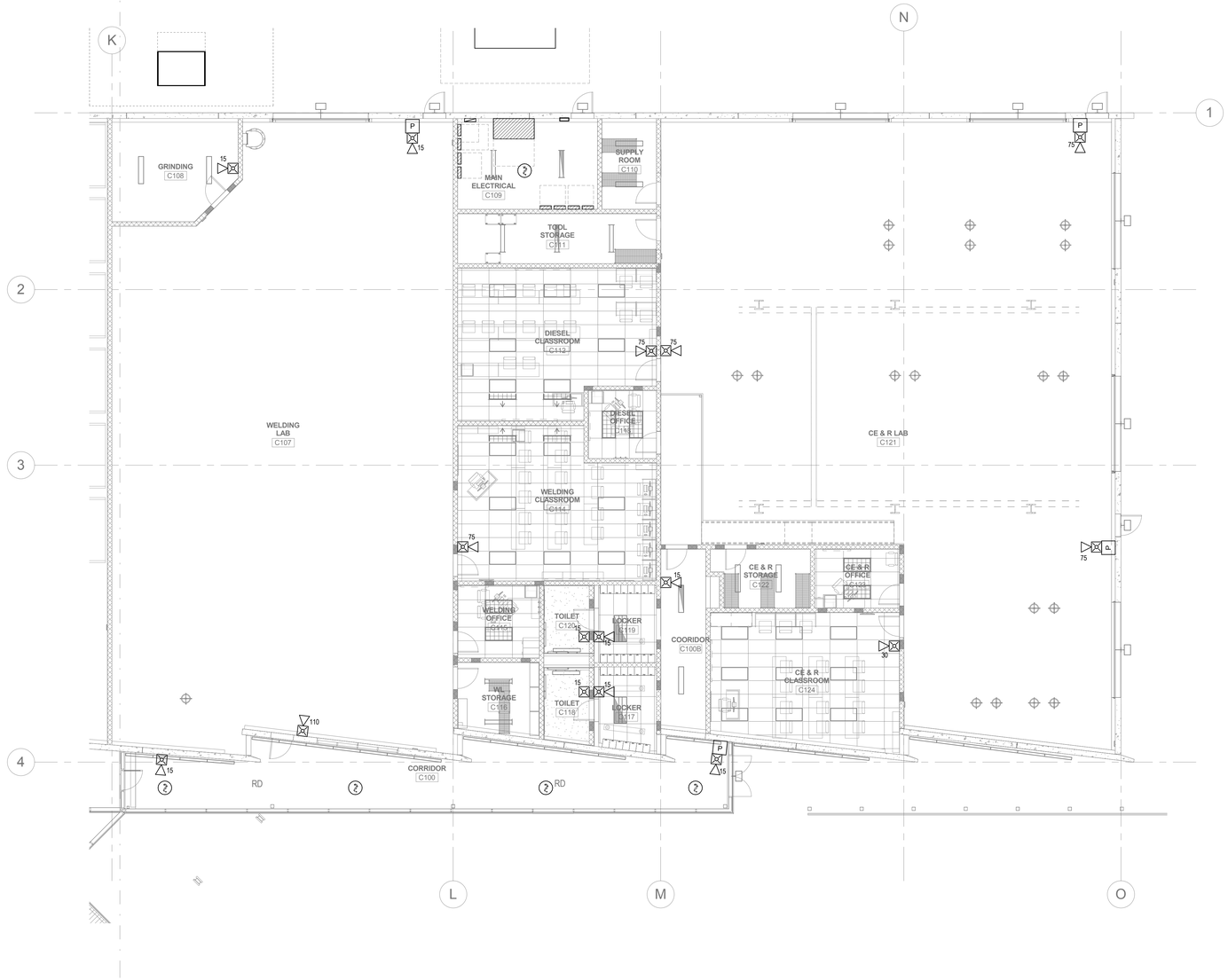


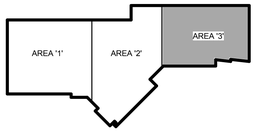
1 LEVEL 1 FIRE ALARM PLAN - AREA '3'

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

PROJECT NORTH TRUE NORTH

GENERAL SHEET NOTES

SHEET KEYNOTES



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Level 1 Fire Alarm Plan - Area '3'

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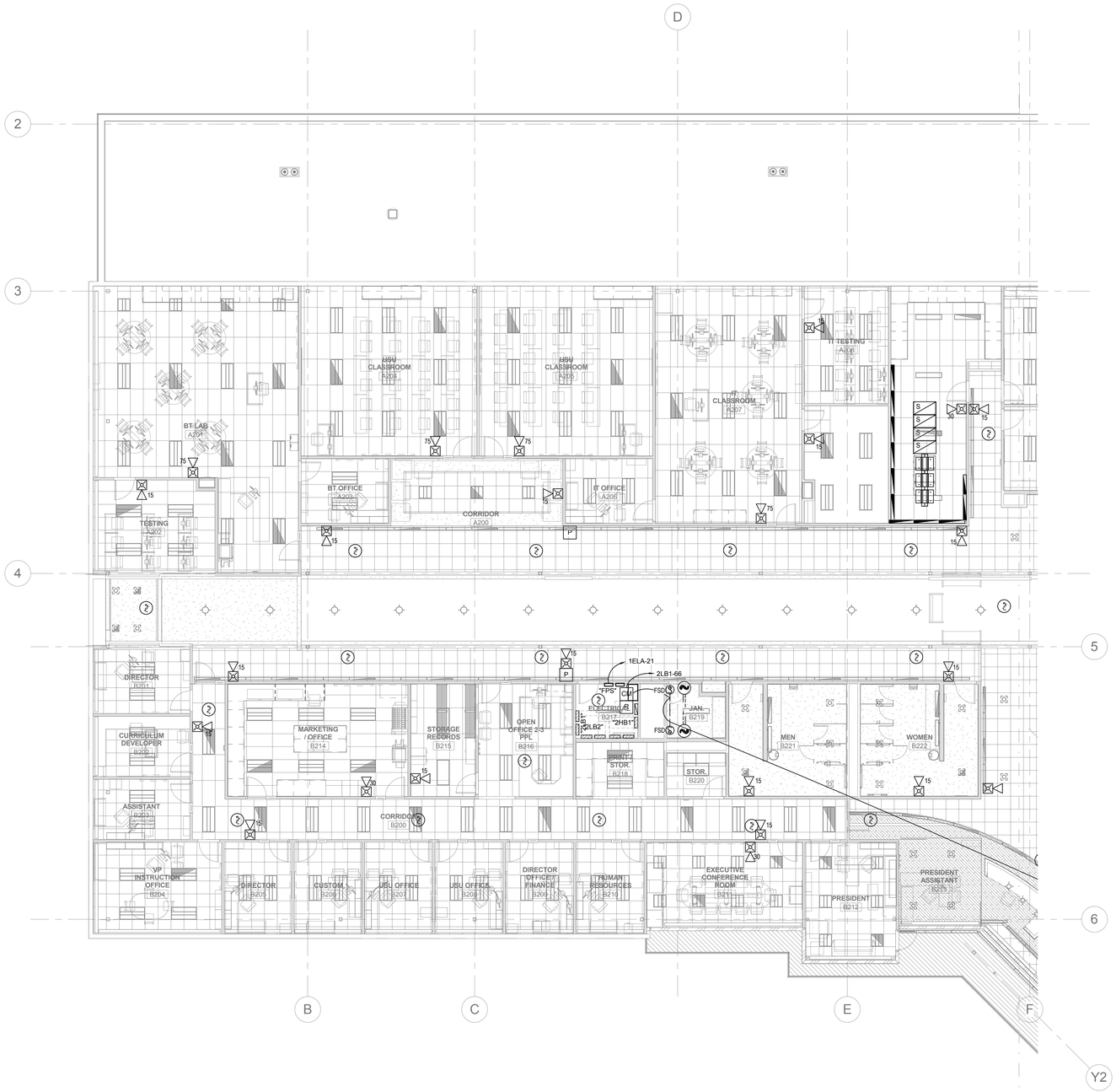
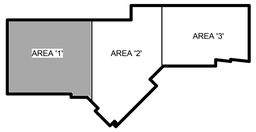


1 LEVEL 2 FIRE ALARM PLAN - AREA '1'

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

PROJECT NORTH TRUE NORTH



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SHEET NOTES

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88 South Tooele Blvd
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revisions :

Level 2 Fire Alarm Plan - Area '1'

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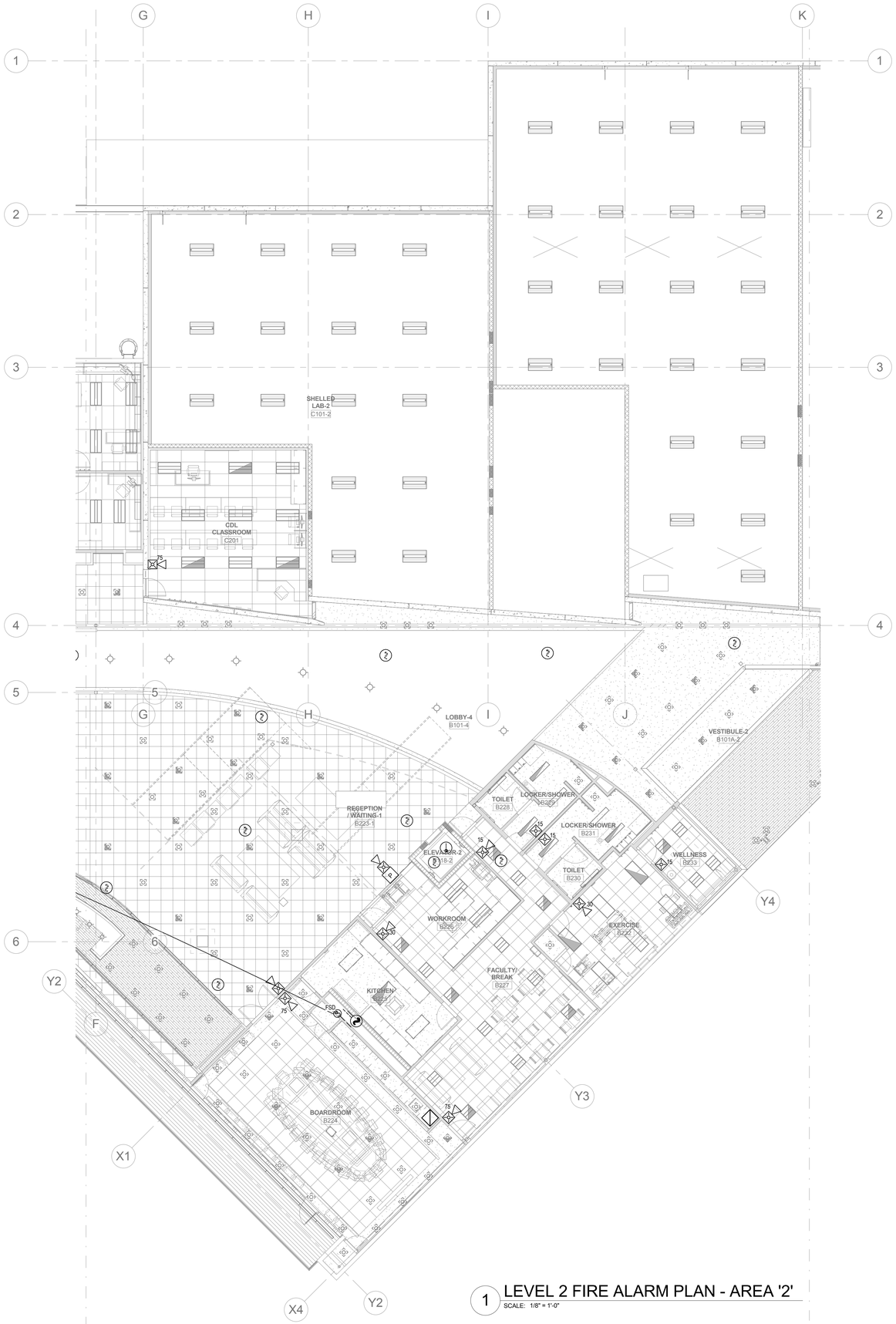
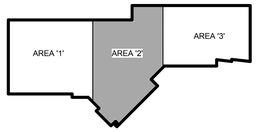


1 LEVEL 2 FIRE ALARM PLAN - AREA '2'

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

PROJECT NORTH TRUE NORTH



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Level 2 Fire Alarm Plan - Area '2'

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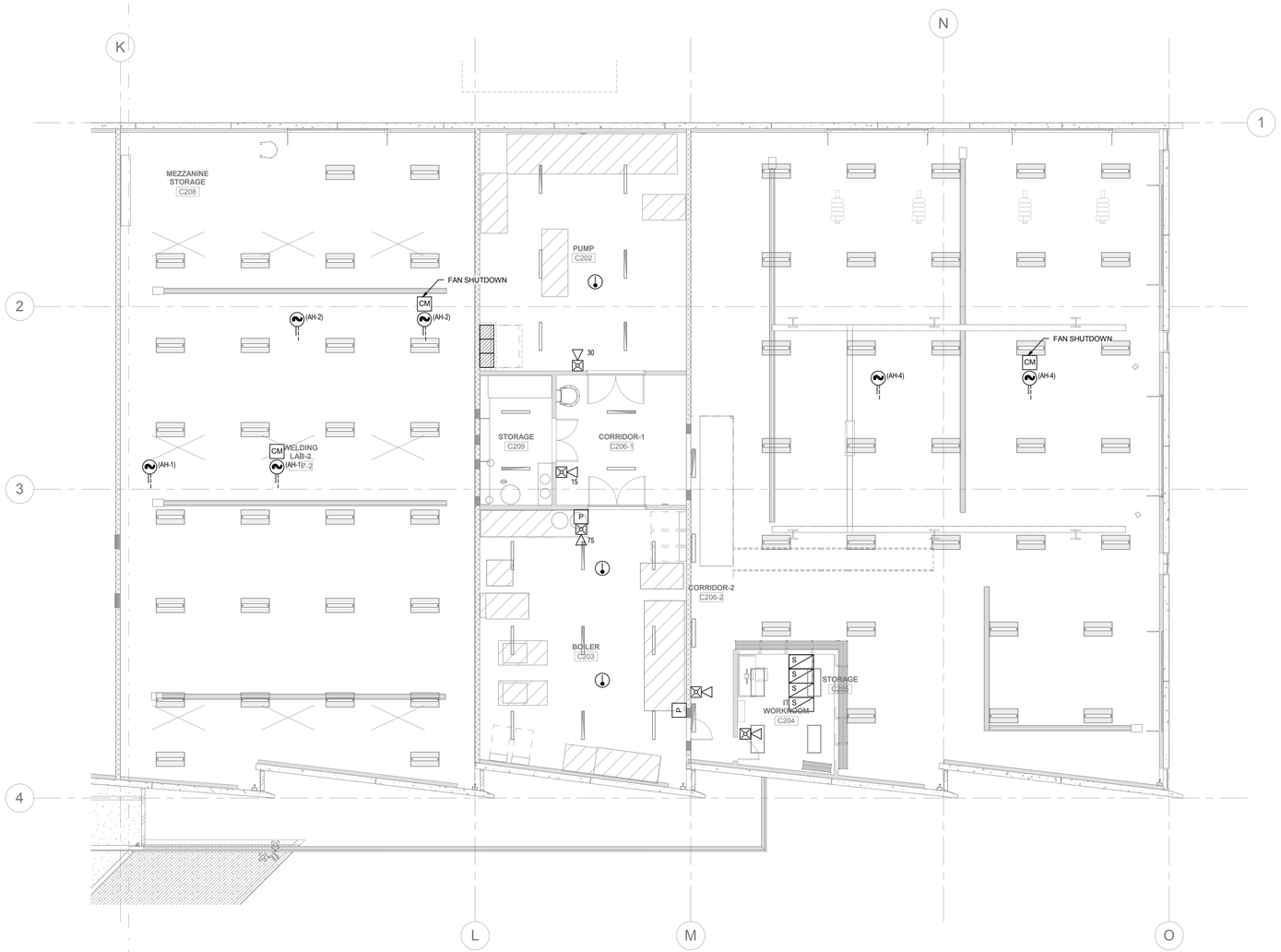
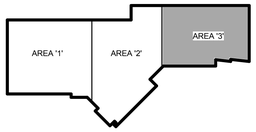


1 LEVEL 2 FIRE ALARM PLAN - AREA '3'

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

PROJECT NORTH TRUE NORTH



GENERAL SHEET NOTES

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Level 2 Fire Alarm Plan - Area '3'

sheet:

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WIRING SCHEDULE

FUNCTION	< 500'	< 1000'	1000'-3000'	> 3000'
ADDRESSABLE LOOP	#18 TSP	#18 TSP	#16 TSP	#14 TSP
POWER LOOP	#14 THWN	#14 THWN	#12 THWN	#10 THWN
SPARE LOOP	#14 THWN	#14 THWN	#12 THWN	#10 THWN
STROBE HORNS	#14 THWN	#14 THWN	#12 THWN	#10 THWN
MAGNETIC DOOR HOLDER	#12 THWN	#10 THWN		
SPEAKERS	#16 TSP	#16 TSP	#14 TSP	#14 TSP

NOTIFICATION SCHEDULE

SYMBOL	STROBE SIZE	COVERAGE	AVERAGE CURRENT	MAXIMUM PER CIRCUIT ALONE
15	15 CD	20'x20'	.085A	17
30	30 CD	30'x30'	.135A	11
75	75 CD	40'x40'	.200A	7
110	110 CD	50'x50'	.225A	6

ADDRESSABLE LOOP LEGEND

INITIATING LOOP	DESCRIPTION
FA-1	1ST FLOOR INITIATING LOOP
FA-2	2ND FLOOR INITIATING LOOP

INDICATING LOOP LEGEND

INDICATING LOOP	DESCRIPTION
FI-1	-

FIRE ALARM INPUT/OUTPUT MATRIX

OUTPUT DEVICES

INITIATING DEVICES — ZONE	GENERAL ALARM	DOOR HOLDER/CLOSERS	ELEVATOR RECALL MAIN LEVEL	ELEVATOR RECALL ALTERNATE LEVEL	FAN SHUTDOWN	FIRE DAMPER	SUPERVISORY	NOTES
1 MAIN FLOW	●	●			●	●		
2 MAIN TAMPER							●	
3 MAIN LEVEL FLOW	●	●			●	●		
4 MAIN LEVEL TAMPER							●	
5 2ND LEVEL FLOW	●	●			●	●		
6 2ND LEVEL TAMPER							●	
7 MAIN LEVEL INITIATING LOOP	●	●			●	●		
8 MAIN LEVEL ELEVATOR DETECTOR	●	●		●	●	●		
9 MAIN LEVEL DUCT DETECTOR	●	●			●	●		
10 2ND LEVEL INITIATING LOOP	●	●			●	●		
11 2ND LEVEL ELEVATOR DETECTOR	●	●			●	●		
12 2ND LEVEL DUCT DETECTOR	●	●	●		●	●		
13 ELEVATOR SPRINKLER HEAT DETECTORS	●	●	●		●	●	●	
14								
15								
16								
17								
18								
19								
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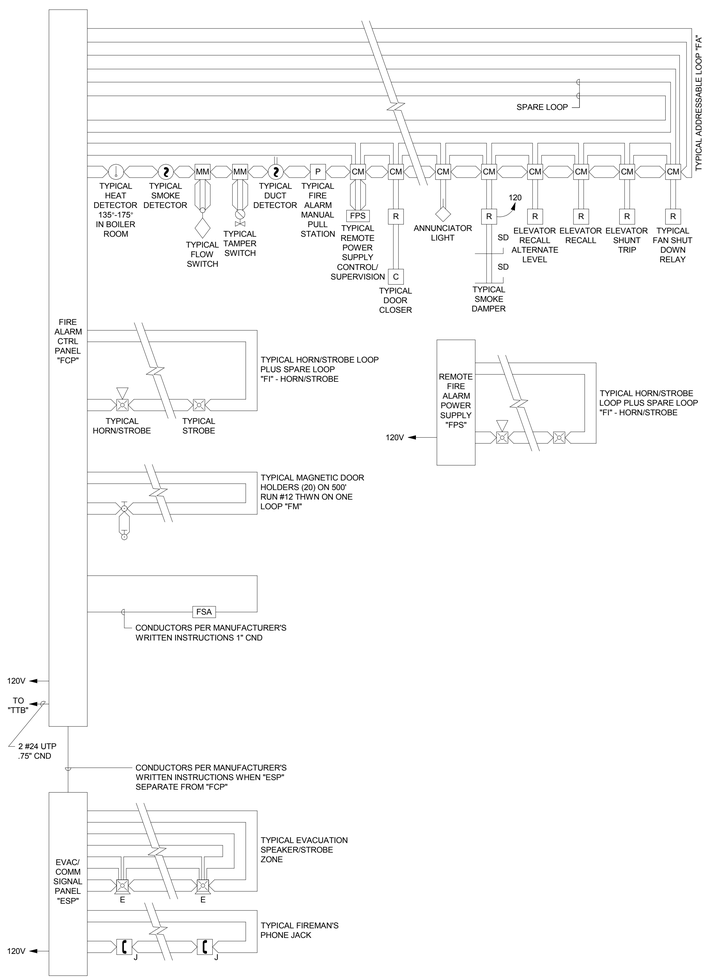

1 FIRE ALARM RISER
SCALE: NTS

GENERAL SHEET NOTES

1 PLANS ARE BASED UPON 99 MONITOR AND CONTROL DEVICES PER ADDRESSABLE LOOP. OTHER CONFIGURATIONS ARE ACCEPTABLE SUBJECT TO CONTRACTOR ALLOWING FOR INCREASED WIRING REQUIREMENTS AND SUBMITTAL DRAWINGS SHOWING NEW WIRING CONFIGURATION. MAXIMUM INITIAL DEVICES PER LOOP SHALL NOT EXCEED 75% MAXIMUM ALLOWABLE.

2 PLANS ARE BASED UPON THE WIRING SCHEDULE SHOWN. WHERE MANUFACTURER'S REQUIREMENTS EXCEED REQUIREMENTS SHOWN, INCLUDE ADDITIONAL ASSOCIATED COSTS AND SUBMITTAL DRAWINGS INDICATING NEW WIRING CONFIGURATION.

3 PLANS ARE BASED UPON 2 AMPS AT 24 VDC, NOT TO EXCEED 75% (1.50 AMPS AVAILABLE), POWER SUPPLY CAPACITY PER NOTIFICATION CIRCUIT. NOTIFICATION DEVICE LOADS ARE BASED UPON NOTIFICATION DEVICE SCHEDULE SHOWN. INCLUDE ADDITIONAL ASSOCIATED COSTS FOR INCREASED WIRING AND POWER SUPPLY CAPACITY IF LOADS OF ACTUAL DEVICES PROVIDED EXCEED CIRCUIT CAPACITY, OR IF LOAD OUTPUT OF ACTUAL POWER SUPPLIES PROVIDED IS SIZED DIFFERENTLY. PROVIDE SUBMITTAL DRAWINGS SHOWING NEW WIRING CONFIGURATION.

4 FLOW AND TAMPER CONFIGURATION BASED UPON FIRE SPRINKLER DESIGN CONCEPT. FIELD VERIFY ACTUAL REQUIREMENTS. INCLUDE ANY ADDITIONAL MONITOR MODULES REQUIRED BY ACTUAL DESIGN REQUIREMENTS.

5 HEAT DETECTORS WHEN INSTALLED IN ELEVATOR SHAFTS OR MECHANICAL ROOMS FOR ELEVATOR SHUT DOWN SHALL HAVE HEAT DETECTOR WITH LOWER RESPONSE TIME INDEX THAN SPRINKLER HEAD.

6 PROVIDE POWER SUPPLY CAPACITY AS REQUIRED FOR DOOR HOLD OPENS SHOWN.

7 BATTERY CAPACITY TO BE ADEQUATE TO OPERATE 15 MINUTES AFTER 24 HOURS PLUS 25% SPARE CAPACITY.

8 VFD REQUIRES TWO RELAYS, ONE FOR SMOKE CONTROL, ONE SPARE.

9 RUN SPARE LOOPS IN SAME CONDUIT. DO NOT EXCEED 40% AREA FILL OF CONDUITS.

10 PROVIDE DUCT DETECTORS FOR SUPPLY AND RETURN AIR SYSTEMS OVER 2000 CFM. INSTALL DUCT DETECTORS PER NFPA 72 REQUIREMENTS AND PROVIDE ADDITIONAL DUCT DETECTORS DEPENDING UPON FINAL DUCT ARRANGEMENT.

11 PROVIDE DUCT DETECTOR AT EACH FLOOR, PRIOR TO CONNECTION TO A COMMON RETURN AND PRIOR TO RECIRCULATING OR FRESH AIR INLET IN AIR RETURN SYSTEMS OVER 15,000 CFM CAPACITY AND SERVING MORE THAN ONE STORY.

12 PROVIDE MANUAL PULL STATIONS IN BOILER ROOMS AND KITCHENS.

13 PROVIDE ONE YEAR OFF SITE MONITORING INCLUDING ALL INTERFACE DEVICES AND MONITORING CHARGES. COORDINATE WITH BUILDING OWNER'S OFF SITE MONITORING COMPANY.

14 LOCATE SMOKE DETECTORS MINIMUM 3' FROM AIR SUPPLY AND RETURN LOUVERS.

15 PROVIDE SYNCHRONIZED STROBES THROUGHOUT FACILITY. PROVIDE SYNCHRONIZATION MODULES PER MANUFACTURER'S REQUIREMENTS. INCLUDE ADDITIONAL WIRING, IF REQUIRED.

16 INITIATING AND INDICATING LOOPS SHALL NOT SERVE AN AREA OF GREATER THAN 22,500 SQUARE FEET. PROVIDE ADDITIONAL LOOPS FOR AREAS LARGER THAN THIS.

17 ALL OUTPUT DEVICES ARE DESIGNED ON SYSTEMS WITH 2 AMP POWER SUPPLY.

18 HORN/STROBE BASED ON 120 MILLIAMPS, DOOR HOLDERS BASED ON 70 MILLIAMPS.

19 INSTALL DUCT DETECTORS PER NFPA 72 REQUIREMENTS AND PROVIDE ADDITIONAL DUCT DETECTORS DEPENDING UPON FINAL DUCT ARRANGEMENT.

REGISTERED PROFESSIONAL ENGINEER No. 7162 STATE OF UTAH
01/18/2012

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project:
TOOELE APPLIED TECHNOLOGY COLLEGE - NEW BUILDING

88 South Tooele Blvd
Tooele, UT 84074

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FA601

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AUDIO AND VIDEO SYSTEM EQUIPMENT LIST

THE ITEMS INDICATED BELOW SHALL NOT BE CONSTRUED AS A "BILL OF MATERIALS". THIS LIST IDENTIFIES ITEMS OF SIGNIFICANCE USED DURING THE DESIGN OF THE ELECTRONIC SYSTEMS INSTALLATION. WHERE THE ITEMS INDICATED ARE ONE PORTION OF AN ASSEMBLY, THE ENTIRE ASSEMBLY SHALL BE PROVIDED UNLESS SPECIFIED OTHERWISE. PROVIDE ALL MISCELLANEOUS HARDWARE AND SUPPORTS WHICH MAY NOT BE LISTED HERE, FOR A COMPLETE INSTALLATION. COMPARE CATALOG NUMBERS WITH DESCRIPTIONS AND NOTIFY ENGINEER OF DISCREPANCIES PRIOR TO BID. IF CATALOG NUMBERS DO NOT MATCH DESCRIPTIONS, THE DESCRIPTIONS TAKE PRECEDENCE. PROVIDE COMPLETE SUBMITTAL FOR APPROVAL PRIOR TO PURCHASING ANY EQUIPMENT OR CABLE. REFER TO SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.

SYMBOL	DESCRIPTION	QUANTITY	ACCEPTABLE TYPES - SEE SPECIAL PROJECT NOTE 1
CS	CONTROL SYSTEM	OFP	CRESTRON AV2
TP	TOUCH PANEL, 36", COLOR W/ SIDE BUTTONS. ARCHITECT TO SELECT COLOR	OFP	CRESTRON TPS-4L SEE DETAIL 10/TA501
	MICROPHONE GENERAL PURPOSE W/ SWITCH AND CORD	4	SHURE BETA 58A-S ELECTRO-VOICE
	50' MICROPHONE CORD	4	PROCO M-50 WHIRLWIND MK4-50
	MICROPHONE FLOOR STAND	2	ATLAS SOUND MS-20E WHIRLWIND STNDMD
	LECTERN MICROPHONE GOOSENECK W/BASE	2	SHURE MX418D/S AUDIO TECHNICA AT8666 RSC/ES915ML
AD / WR	WIRELESS MICROPHONE SYSTEM FOR ASSEMBLY TRANSMITTER, HAND HELD	OFP	SHURE ULXS2/SM58 SENNHEISER SK535 G2
	TRANSMITTER, BODY WORN W/ LAPEL AND HEAD WORN ELEMENTS	OFP	SHURE ULXS4/ULX1/WL183/WH30TQG SENNHEISER EW500G2/SKM500G2/ME2/ME3
	RECEIVER W/ DUAL RACK MOUNT KIT	OFP	SHURE UA507 SENNHEISER GA2
	ANTENNA DISTRIBUTION SYSTEM W/ ANTENNAS, CABLE AND ALL REQUIRED ACCESSORIES	A/R	SHURE UA844/UA870 W/ UA8100 SENNHEISER EWANT4RG2
ALS	ASSISTIVE LISTENING SYSTEM, R.F.	OFP	LISTEN LS-03-72 COMTEK CC-75LD
LM	LINE LEVEL MIXER, BALANCED	OFP	RADIO DESIGN LABS ST-MX3 EXTRON MUX 301
ADA	AUDIO DISTRIBUTION AMPLIFIER WITH POWER SUPPLY	OFP	RADIO DESIGN LABS RU-BDA3 EXTRON MDA 3A
AI	AUDIO INTERFACE, DUAL CHANNEL	A/R	RADIO DESIGN LABS STA-1 EXTRON DAS101CM
PROC	AUDIO PROCESSOR, AUTOMIXER, EQUALIZER	OFP	BSS LONDON BLU 100 W/ BOB
	BRAIDED, EXPANDABLE SLEEVING, BLACK, NOTE 11	A/R	PANDUIT TECH FLEX
	POWER AMPLIFIER, DUAL CHANNEL, 15W PER CHANNEL	OFP	EXTRON MPA 152
	POWER AMPLIFIER, DUAL CHANNEL, 300W PER CHANNEL, 70.7V	OFP	QSC CX602V CROWN CTS600
S	SPEAKER W/TRANSFORMER, GRILLE, BACKCAN, AND TILE BRIDGE	OFP	ATLAS SOUND FAP62T
S	WALL SPEAKER W/ MOUNT, WHITE	OFP	JBL CONTROL 28T-60W
IR	INFRARED SENSORS	OFP	
WC1	WALL CONTROLLER #1 W/ RS-232, ETHERNET, IR, RELAYS	OFP	CRESTRON MPC-M10 SEE DETAIL 5/TA501
WC2	WALL CONTROLLER #2 W/ RS-232, ETHERNET, IR, RELAYS	OFP	CRESTRON MPC-M10 SEE DETAIL 6/TA501
WC3	WALL CONTROLLER #3 W/ RS-232, ETHERNET, IR, RELAYS	OFP	CRESTRON MPC-M10 SEE DETAIL 7/TA501
WC4	WALL CONTROLLER #4 W/ RS-232, ETHERNET, IR, RELAYS	OFP	CRESTRON MPC-M10 SEE DETAIL 8/TA501

A/R = AS REQUIRED OFP = OBTAIN FROM PLANS RMK = RACK MOUNT KIT

AUDIO AND VIDEO SYSTEM EQUIPMENT LIST (CON'T)

SYMBOL	DESCRIPTION	QUANTITY	ACCEPTABLE TYPES - SEE SPECIAL PROJECT NOTES 1 & 2
CP1 / CP2	CONNECTION PANELS #1, #2	OFP	EXTRON ADAPTER PLATES AS DETAILED SEE DETAILS 1,2/TA501
CP3 / CP4	CONNECTION PANELS #3, #4	OFP	CUSTOM SEE DETAIL 3,4/TA501
FBAV	CONNECTION PANEL, AV FLOOR BOX,	OFP	EXTRON ADAPTER PLATES AS DETAILED SEE DETAILS 9/TA501
1	VIDEO/DATA PROJECTOR W/1 REPLACEMENT LAMP & FILTER, 5500 LUMENS. PROVIDE LENS APPROPRIATE FOR THROW DISTANCE, SEE NOTE 13. 16:9 ASPECT RATIO	OFP	MITSUBISHI WL7200U
2	VIDEO/DATA PROJECTOR W/1 REPLACEMENT LAMP & FILTER, 4000 LUMENS. PROVIDE LENS APPROPRIATE FOR THROW DISTANCE, SEE NOTE 13. 16:9 ASPECT RATIO	OFP	MITSUBISHI FD630U
	PROJECTOR CEILING MOUNT KIT, PROVIDE PIPE, COUPLERS, STEEL, ADAPTORS, UNISTRUT, THREADED ROD, FASTENERS, ANCHORS, AND ANY OTHER REQUIRED COMPONENTS TO SPAN STRUCTURE, AIR DUCTS, EXTEND/REDUCE SUPPORT SYSTEM FOR APPROPRIATE ELEVATION AS NEEDED FOR INSTALLATION OF THE SPECIFIED DEVICE. SECURE PROJECTORS TO MOUNTS UTILIZING SECURITY SCREWS.	OFP	CHIEF RPA PREMIER MOUNTS
	MOUNTING SHELF, POLE MOUNT	OFP	EXTRON PMK 350
SC	SCREEN, FRONT PROJECTION, ELECTRIC ROLL UP, WITH RECESS MOUNTED ENCLOSURE, 16:9 ASPECT RATIO, SEE SCREEN MATRIX FOR SIZE & 18" OF BLACK DROP, HIGH CONTRAST MATTE WHITE, PROVIDE MATTE WHITE IN SIZES WHERE HIGH CONTRAST MATERIAL IS NOT AVAILABLE, LOW VOLTAGE CONTROLLER, WALL SWITCH.	OFP	DA-LITE ADVANTAGE ELECTROL SCREEN STEWART VISIONARY ELECTRIC
M55	FLAT PANEL DISPLAY, 55", LED-LCD, 1920x1080, RS-232, HDMI, VGA, EXTERNAL SPEAKERS	OFP	SAMSUNG DE55A
	WALL MOUNT BRACKET	OFP	CHIEF XTMU
M65	FLAT PANEL DISPLAY, 65", LED-LCD, 1920x1080, RS-232, HDMI, VGA, EXTERNAL SPEAKERS	OFP	SAMSUNG DE65A
	WALL MOUNT BRACKET	OFP	CHIEF XTMU
T42	FLAT PANEL DISPLAY, 42", TOUCH SCREEN, 1080p	OFP	CYBERTOUCH ORION 04282U
	WALL MOUNT BRACKET	OFP	CHIEF XTMU
M32	FLAT PANEL DISPLAY, 32", LCD	OFP	
RLA	RGBHV LINE AMPLIFIER	A/R	EXTRON P/2 DA1 ANALOG WAY DUAL SPLITTER
1	EQUIPMENT RACK #1, FLOOR STANDING W/ FRONT DOOR AND TOP	OFP	MIDDLE ATLANTIC MRK-4426
2	EQUIPMENT RACK #2, WALL MOUNTED	OFP	MIDDLE ATLANTIC
3	EQUIPMENT RACK #3, FLOOR STANDING W/ FRONT DOOR AND TOP	OFP	MIDDLE ATLANTIC MRK-4426
	CUSTOM RACK MOUNT KIT, NOTE 10	A/R	MIDDLE ATLANTIC PRODUCTS RSH SERIES
I	MATCHING TRANSFORMER	A/R	RADIO DESIGN LABS TX-1A PRO CO LOT-1
	SECURITY CABLES, ADHESIVES, MOUNTING PLATES, TAMPER PROOF RACK SCREWS, CABLE TRAPS, AND PADDLE LOCKS, NOTE 12	A/R	
TVSS / PLS	TRANSIENT VOLTAGE SURGE SUPPRESSOR W/ PLUGSTRIP "PLS" UL LISTED	A/R	SURGEX SA20 LOWELL ACSP2004
TVSS1 / PLS	TRANSIENT VOLTAGE SURGE SUPPRESSOR W/ PLUGSTRIP "PLS" UL LISTED	A/R	SURGEX SA82 FLATPAK
	ADAPTOR CABLE, NOTE 9	A/R	EXTRON LIBERTY
	PATCH CORDS, NOTE 6	A/R	VARIOUS
	FAN OUT CABLE, NOTE 9	A/R	EXTRON STVGA LIBERTY A-VGAX-XXXXX
RC1	HDMI TWISTED PAIR RECEIVER #1	A/R	EXTRON MTP/HDMI UR
RC2	RGB TWISTED PAIR RECEIVER #2	A/R	EXTRON MTP R 15 HD A D
RC3	HDMI TWISTED PAIR RECEIVER #3	A/R	EXTRON HDMI 201 A D RX
HS2	HDMI SWITCHER W/ EDID MINDER, 2x1, REMOTE CONTROL	OFP	EXTRON SW2 HDMF
HAD	HDMI AUDIO DE-EMBEDDER	OFP	EXTRON HAE100
HMS	HDMI MATRIX SWITCHER, 8x4	OFP	EXTRON DXP-84HDMI
RMS	VGA MATRIX SWITCHER W/ AUDIO	OFP	EXTRON MVX84VGA A
VMS	VIDEO MATRIX SWITCHER W/ AUDIO	OFP	EXTRON MMX 42 AV
	AUDIO-VIDEO SYSTEM CABLE REQUIREMENTS SCHEDULE	A/R	SEE CABLE SCHEDULE ON SHEET TA002

A/R = AS REQUIRED OFP = OBTAIN FROM PLANS RMK = RACK MOUNT KIT

AUDIO-VIDEO SHEET INDEX

SHEET NO	SHEET TITLE
TA001	AUDIO-VIDEO EQUIPMENT LIST AND NOTES
TA002	AUDIO-VIDEO SCHEDULES
TA501	AUDIO-VIDEO DETAILS
TA601	AUDIO-VIDEO DIAGRAMS

DEFINITIONS

NOTE: ALL DEFINITIONS MAY NOT BE USED.

INDICATED: THE TERM "INDICATED" REFERS TO GRAPHIC REPRESENTATIONS, NOTES, OR SCHEDULES ON THE DRAWINGS, OTHER PARAGRAPHS OR SCHEDULES IN THE SPECIFICATIONS, AND SIMILAR REQUIREMENTS IN THE CONTRACT DOCUMENTS. WHERE TERMS SUCH AS "SHOWN", "NOTED", "SCHEDULED", AND "SPECIFIED" ARE USED, IT IS TO HELP THE READER LOCATE THE REFERENCE, NO LIMITATION ON LOCATION IS INTENDED.

DIRECTED: TERMS SUCH AS "DIRECTED", "REQUESTED", AUTHORIZED", "SELECTED", "APPROVED", "REQUIRED", AND "PERMITTED" MEAN "DIRECTED BY THE ENGINEER", "REQUESTED BY THE ENGINEER", AND SIMILAR PHRASES.

APPROVE: THE TERM "APPROVED", WHERE USED IN CONJUNCTION WITH THE ENGINEER'S ACTION ON THE CONTRACTOR'S SUBMITTALS, APPLICATIONS, AND REQUESTS, IS LIMITED TO THE ENGINEER'S DUTIES AND RESPONSIBILITIES AS STATED IN GENERAL AND SUPPLEMENTARY CONDITIONS.

FURNISH: THE TERM "FURNISH" IS USED TO MEAN "SUPPLY AND DELIVER TO THE PROJECT SITE, READY FOR UNLOADING, UNPACKING, ASSEMBLY, INSTALLATION, AND SIMILAR OPERATIONS."

INSTALL: THE TERM "INSTALL" IS USED TO DESCRIBE OPERATIONS AT PROJECT SITE INCLUDING THE ACTUAL "UNLOADING, UNPACKING, ASSEMBLY, ERECTION, PLACING, ANCHORING, APPLYING, WORKING TO DIMENSION, FINISHING, CURING, PROTECTING, CLEANING, AND SIMILAR OPERATIONS."

PROVIDE: THE TERM "PROVIDE" MEANS "TO FURNISH AND INSTALL, COMPLETE AND READY FOR THE INTENDED USE."

INSTALLER: AN "INSTALLER" IS THE CONTRACTOR OR AN ENTITY ENGAGED BY THE CONTRACTOR, EITHER AS AN EMPLOYEE, SUBCONTRACTOR, OR SUB-SUBCONTRACTOR, FOR PERFORMANCE OF A PARTICULAR CONSTRUCTION ACTIVITY, INCLUDING INSTALLATION, ERECTION, APPLICATION, AND SIMILAR OPERATIONS. INSTALLERS ARE REQUIRED TO BE EXPERIENCED IN THE OPERATIONS THEY ARE ENGAGED TO PERFORM.

TECHNOLOGY SYSTEMS: THE TERM "TECHNOLOGY SYSTEMS" IS USED TO DESCRIBE ALL LOW VOLTAGE SYSTEMS. THESE SYSTEMS INCLUDE BUT ARE NOT NECESSARILY LIMITED TO ALL SYSTEMS WHICH UTILIZE VOLTAGES OF LESS THAN 71 VOLTS SUCH AS SOUND SYSTEMS, VIDEO SYSTEMS, TV SYSTEMS, SECURITY SYSTEMS, VOICE AND DATA CABLING SYSTEMS, ETC...

ABBREVIATIONS

NOTE: ALL ABBREVIATIONS MAY NOT BE USED.

"A"	AUDIO
"A/R"	AS REQUIRED
"ADJ"	ADJACENT
"C"	CONDUIT
"CAT"	CATEGORY
"CFI"	CONTRACTOR FURNISHED AND INSTALLED
"CV"	COMPOSITE VIDEO
"E"	ENHANCED
"EA"	EACH
"EX"	EXISTING
"GR"	GROUND
"I.O.F."	INSTALLATION OF OWNER FURNISHED EQUIPMENT
"L"	LEFT AUDIO CHANNEL, LINE LEVEL
"MIC"	MIC LEVEL AUDIO
"N.I.C."	NOT IN CONTRACT
"OFCI"	OWNER FURNISHED AND CONTRACTOR INSTALLED
"OFI"	OWNER FURNISHED AND INSTALLED
"OFP"	OBTAIN FROM PLANS
"QTY"	QUANTITY
"OP"	OWNER PROVIDED
"R"	RIGHT AUDIO CHANNEL, LINE LEVEL
"RGBHV"	COMPUTER VIDEO
"RMK"	RACK MOUNT KIT
"RU"	RACK UNIT, 1.75"
"TYP"	TYPICAL
"V"	VOLT
"W/"	WITH
"YC"	S-VIDEO

SPECIAL PROJECT NOTES

1. THE AUDIO AND VIDEO SYSTEM EQUIPMENT LIST FOUND ON SHEET TA001 IDENTIFIES EQUIPMENT ITEMS OF SIGNIFICANCE BY MANUFACTURER AND MODEL NUMBER. THE SOLE PURPOSE FOR THIS IS TO ESTABLISH LEVELS OF QUALITY AND INDIVIDUAL COMPONENT CAPABILITY FOR ALL EQUIPMENT ITEMS. IT IS NOT THE INTENT OF THE AUDIO AND VIDEO SYSTEM EQUIPMENT LIST TO PRECLUDE THE INSTALLATION OF EQUIPMENT ITEMS FABRICATED BY MANUFACTURERS OTHER THAN THOSE LISTED, SO FAR AS THEY ARE EQUAL TO THOSE EQUIPMENT ITEMS IDENTIFIED IN THE LIST. IF BIDDERS WISH TO FURNISH AND INSTALL ITEMS OTHER THAN THOSE IDENTIFIED IN THE AUDIO AND VIDEO SYSTEM EQUIPMENT LIST, APPROVAL MUST BE OBTAINED DURING THE BIDDING PROCESS. TO THIS END, A SUBSTITUTION REQUEST PROCESS IS IDENTIFIED IN THE DIVISION 1 SPECIFICATIONS FOR OBTAINING APPROVAL TO FURNISH AND INSTALL EQUAL EQUIPMENT ITEMS. THE SPECIFICATIONS AND COMPONENT CAPABILITY OF ALL PROPOSED EQUAL EQUIPMENT ITEMS THAT ARE SUBMITTED IN FULL COMPLIANCE WITH THE SUBSTITUTION REQUEST PROCESS WILL BE STRICTLY EVALUATED DURING THE BIDDING PROCESS. FINAL DECISIONS REGARDING ALL EQUIPMENT SUBSTITUTION REQUESTS WILL BE MADE BY THE AV SYSTEM DESIGNER.

GENERAL AV NOTES

1. CONDUCT AN RF FREQUENCY AUDIT OF THE SITE PRIOR TO SELECTION OF WIRELESS RF OPERATING FREQUENCIES. SELECT FREQUENCIES TO ASSURE INTERFERENCE FREE OPERATION. INSTALL ANTENNAS/TRANCEIVERS OUTSIDE OF THE EQUIPMENT RACK, AT AN ARCHITECT APPROVED LOCATION, WHERE THE BEST SYSTEM PERFORMANCE IS ACHIEVED.
2. FILL ALL UNUSED RACK SPACE WITH BLANK/VENT PANELS.
3. INSTALL ALL EQUIPMENT IN COMPLIANCE WITH THE MANUFACTURERS WRITTEN INSTRUCTIONS, SEISMIC CODES, AND INDUSTRY WIDE ACCEPTED RIGGING PRACTICES. SUPPORT EQUIPMENT WEIGHT FROM STRUCTURE ABOVE CEILINGS. DURING THE SUBMITTAL PROCESS, PROVIDE SHOP DRAWINGS WHICH DETAIL PROPOSED MOUNTING FOR ALL SUCH EQUIPMENT.
4. PROVIDE MANUFACTURER RECOMMENDED POWER SUPPLIES AND/OR TRANSFORMERS FOR ALL SPECIFIED EQUIPMENT.
5. FURNISH AND INSTALL ALL CABLE AND CONNECTORS REQUIRED FOR ALL AUDIO AND VIDEO SYSTEMS TO COMPLETE MANUFACTURER RECOMMENDED CABLE TO EQUIPMENT TERMINATION TO FORM A COMPLETE AND FULLY FUNCTIONAL SYSTEM AS SHOWN. SELECT CONNECTORS WHICH PASS FULL BANDWIDTH CAPABILITY OF SPECIFIED CABLE. PROVIDE CABLE TYPES AS IDENTIFIED IN THE AUDIO/VIDEO CABLE SCHEDULE.
6. PROVIDE PATCH CABLES TO FULLY INTERCONNECT ALL SPECIFIED AND/OR OWNER FURNISHED EQUIPMENT WITH THE SPECIFIED CONNECTION PANELS, SYSTEM INTERFACES, AND MISCELLANEOUS EQUIPMENT.
7. PROVIDE MANUFACTURER RECOMMENDED, AND INDUSTRY STANDARD, SIGNAL LEVELS AND COMMUNICATION PROTOCOLS THROUGHOUT ENTIRE SYSTEM REGARDLESS OF CABLE LENGTHS. PROVIDE ALL REQUIRED DISTRIBUTION AND PROCESSING EQUIPMENT, INCLUDING BUT NOT LIMITED TO SIGNAL DISTRIBUTION AMPLIFIERS, LINE AMPLIFIERS, LINE DRIVERS, EQUALIZING AMPLIFIERS, GROUND/HUM ISOLATORS, MATCHING/ISOLATION TRANSFORMERS, CONTROL BUS DEVICES, COMMUNICATIONS CONVERTORS, ETC..., WHETHER SHOWN IN THE SINGLE LINE DIAGRAMS OR NOT.
8. PROVIDE POWER, CURRENT, AND/OR SIGNAL SENSORS FOR ALL EQUIPMENT WHERE IT IS NECESSARY FOR CORRECT CONTROL SYSTEM OPERATION.
9. PROVIDE PRE-MANUFACTURED ADAPTER CABLES WHERE REQUIRED FOR MATING CABLE TO CONNECTORS. THESE WILL INCLUDE, BUT ARE NOT LIMITED TO, ADAPTERS WHICH MATE RGBHV CABLE TO 15 PIN HD CONNECTORS, TWO VIDEO CABLES TO 4 PIN DIN CONNECTORS, AND OTHER SIMILAR TERMINATION REQUIREMENTS.
10. PROVIDE RACK MOUNT KITS FOR ALL RACK MOUNTED EQUIPMENT. WHERE MANUFACTURERS DO NOT PROVIDE RACK MOUNT KITS, PROVIDE CUSTOM RACK MOUNT KITS AS SPECIFIED.
11. WHERE ANY CABLE IS INSTALLED IN A FASHION WHERE EXPOSED TO PUBLIC VIEW, INSTALL CABLE INSIDE THE SPECIFIED BRAIDED EXPANDABLE SLEEVING. EXAMPLES OF SUCH LOCATIONS INCLUDE, BUT ARE NOT LIMITED TO EQUIPMENT ITEMS ON LECTERNS AND CEILING MOUNTED PROJECTORS.
12. UNLESS OTHERWISE NOTED SECURE, EVERY PIECE OF A/V SYSTEM EQUIPMENT SUCH THAT IT CANNOT BE REMOVED BY UNAUTHORIZED PERSONS. SECURED EQUIPMENT SHALL INCLUDE, BUT NOT LIMITED TO WALL MOUNTED SPEAKERS, PROJECTORS, MONITORS, TOUCH PANELS, DOCUMENT CAMERAS, CAMERAS, OWNER FURNISHED CPU'S & MONITORS, ALL RACK MOUNTED EQUIPMENT, AND ALL EQUIPMENT INSTALLED IN/ON LECTERNS AND OTHER MILLWORK. UTILIZE THE SPECIFIED SECURITY CABLE AND PADDLE LOCK SYSTEM. SUBMIT PROPOSED ADHESIVE MOUNTING LOCATION DURING SUBMITTAL PROCESS. DO NOT SECURE KEYBOARDS AND MICE. IN ADDITION AFFIX ALL LECTERN RACK MOUNTED EQUIPMENT W/TAMPER-PROOF RACK SCREWS. USE KENSINGTON LOCKS WHERE AVAILABLE ON SPECIFIED EQUIPMENT.
13. LOCATE AND INSTALL PROJECTOR AND SCREEN SUCH THAT THE IMAGE SIZE SPECIFIED IN THE PROJECTION SCREEN SCHEDULE IS ACHIEVED. PROVIDE APPROPRIATE LENS FOR IMAGE SIZE AND THROW DISTANCE.
14. IF AN INSTANCE IS ENCOUNTERED WHERE CABLE MUST BE INSTALLED INSIDE OF AN AIR PLENUM, FURNISH THE PLENUM RATED EQUIVALENT TO THE CABLE SPECIFIED.
15. REFER TO 'EJ' SHEETS FOR DEVICE LOCATIONS AND CONDUIT ROUTING.

01/18/2012

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project:
TOOELE APPLIED TECHNOLOGY COLLEGE - NEW BUILDING

88 South Tooele Blvd
Tooele, UT 84074

project#: 11.0420
date: 1/20/11

revisions :

Audio-Video Equipment List and Notes

sheet:

TA001

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AV SYSTEM CABLE INSTALLATION REQUIREMENTS SCHEDULE

TYPICAL CLASSROOM MONITOR DISPLAY (A125, A201, A207)

ORIGIN	DESTINATION	CABLE TYPE	QUANTITY	SPECIAL INSTRUCTIONS
FBAV	M55	H	1	
		G	1	
		V	1	
		L	4	
WC1	M65	C	3	

AV SYSTEM CABLE INSTALLATION REQUIREMENTS SCHEDULE

CAFETERIA/BOOKSTORE & LOBBY

ORIGIN	DESTINATION	CABLE TYPE	QUANTITY	SPECIAL INSTRUCTIONS
CP4	S	M	1	
		L	2	
CP1	M80	H	1	
		G	1	
		V	1	
		L	4	
M80	S	L	2	
		C	1	
		D	6	
WC4	S	C	2	
WC4	M80	C	2	
S	S	S	1	FOLLOW CIRCUITING ON FLOOR PLANS
T42	S			

AV SYSTEM CABLE INSTALLATION REQUIREMENTS SCHEDULE

STANDARD CLASSROOMS A126, A127

ORIGIN	DESTINATION	CABLE TYPE	QUANTITY	SPECIAL INSTRUCTIONS
CP1	2	H	1	
		G	1	
		L	5	
WC2 WC3	2	C	3	
S	2	S	1	CIRCUIT AS SHOWN ON DRAWINGS
	WC2 WC3	C	1	

AV SYSTEM CABLE INSTALLATION REQUIREMENTS SCHEDULE

TV DISTRIBUTION

ORIGIN	DESTINATION	CABLE TYPE	QUANTITY	SPECIAL INSTRUCTIONS
	SERVER S205	T	1	COIL 15'-0" IN SERVER ROOM AND LABEL
SERVER S205	CABLE PROV. DEMARC	TR	1	COIL 15'-0" IN SERVER ROOM AND LABEL
FP	SERVER S205	T	1	COIL 15'-0" IN SERVER ROOM AND LABEL

AV SYSTEM CABLE INSTALLATION REQUIREMENTS SCHEDULE

MULTI-PURPOSE B103

ORIGIN	DESTINATION	CABLE TYPE	QUANTITY	SPECIAL INSTRUCTIONS
CP3	2	M	2	
FBAV	2	L	5	
		G	1	
		H	1	
		V	1	
1	2	D	2	
		C	1	
CP2	2	G	1	
		H	1	
		L	2	
	2	C	1	
	SC	C	1	
S	2	S	1	FOLLOW CIRCUITING ON FLOOR PLANS
TP	2	C	1	
		D	1	
IR	2	D	1	

TOOELE APPLIED TECHNOLOGY COLLEGE SCREEN SCHEDULE

ROOM NAME	ROOM #	CEILING HEIGHT	PROJ. SCREEN OR FLAT PANEL	PROJECTED IMAGE HEIGHT	PROJECTED IMAGE WIDTH	APPROX. PROJECTOR THROW DISTANCE *	FLAT PANEL SIZE (DIAGONAL)	ASPECT RATIO	COMMENTS
CPR	A125	10'-0"	FP				65"	16:9	
CONTROL	A119	10'-0"	FP				32"	16:9	NO BACKOX
CONTROL	A119	10'-0"	FP				32"	16:9	NO BACKOX
CONTROL	A119	10'-0"	FP				32"	16:9	NO BACKOX
LPN/CNA CLASSROOM	A126	10'-0"	PS	65"	116"	8' - 12'		16:9	MOTORIZED
RN CLASSROOM	A127	10'-0"	PS	65"	116"	8' - 12'		16:9	MOTORIZED
MULTI-PURPOSE ROOM	B103	11'-0"	PS	90"	160"	12' - 16'		16:9	MOTORIZED
MULTI-PURPOSE ROOM	B103	11'-0"	PS	90"	160"	12' - 16'		16:9	MOTORIZED
CAFETERIA	B111	12'-6"	FP				80"	16:9	
BT LAB	A201	10'-0"	FP				55"	16:9	
IT CLASSROOM	A207	10'-0"	FP				55"	16:9	
BOARDROOM	B224	10'-0"	PS	78"	139"	8' - 12'			MOTORIZED

AUDIO-VIDEO SYSTEMS CABLE REQUIREMENTS SCHEDULES

ELECTRONIC SYSTEMS CABLE SCHEDULE

CABLE TYPE	DESCRIPTION	ACCEPTABLE TYPES (NOTE #1)	SPECIAL INSTRUCTIONS
M	MICROPHONE CABLE, 22 AWG, SHIELDED, TWISTED PAIR W/ DRAIN	BELDEN 82761 LIBERTY 22-IP-CMP-EZ-WHY	NOTE 14
L	LINE LEVEL CABLE, 22 AWG, SHIELDED, TWISTED PAIR W/ DRAIN	BELDEN 82761 LIBERTY 22-IP-CMP-EZ-WHY	NOTE 14
S	SPEAKER CABLE, 70 V, 16 AWG, TWISTED PAIR	WEST PENN 25225 LIBERTY 16-2C-TTP	NOTE 14
V	VIDEO CABLE, 75 OHM, COAXIAL, RG 59	WEST PENN 25816	NOTE 14
R	RGBHV CABLE, 5 COAXIAL, HIGH RESOLUTION	LIBERTY RGB5C-SD-PLN	NOTE 14
C	CONTROL CABLE, 24 AWG, 4 PAIR, OVERALL SHIELD	BELDEN 88104 WEST PENN D252404	NOTE 14
D	DATA CABLE, CATEGORY 5E PLENUM RATED, YELLOW	MOHAWK M57550	NOTE 14
T	TV DISTRIBUTION CABLE, RG-6, COAXIAL	WEST PENN 25841	NOTE 14
TR	TV DISTRIBUTION CABLE, RG-11 COAXIAL	WEST PENN 25821	NOTE 14
H	HDMI CABLE	EXTRON HDMI PRO	NOTE 14. PROVIDE EXTRON HDMI 101 CABLE EQUALIZER, OR CONVERT HDMI CABLES TO TWISTED PAIR WITH APPROPRIATE CONVERTERS AND CABLING AS REQUIRED TO MEET HDMI 10.2Gps STANDARD
	MISC CABLE, MANUFACTURER RECOMMENDED	EXTRON LIBERTY	NOTE 14
	"J" HOOKS FOR ALL CABLE INSTALLED OUTSIDE OF CONDUIT	CADDY CLIP	INSTALL AT MAXIMUM 4' INTERVALS FROM DEDICATED SUPPORT HANGERS
G	VGA CABLE, PRE-TERMINATED, PLENUM	EXTRON VGAP-M-F BK/XX	USE SHORTEST LENGTH POSSIBLE. ENSURE CABLE END FITS IN CONDUIT SHOWN ON SHEET E.601.

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project:
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88 South Tooele Blvd
Tooele, UT 84074

project#: 11.0420
date: 1/20/11

revisions :

Audio-Video Schedules

sheet:

TA002

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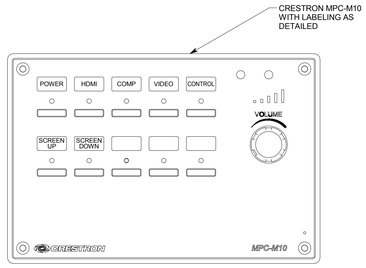
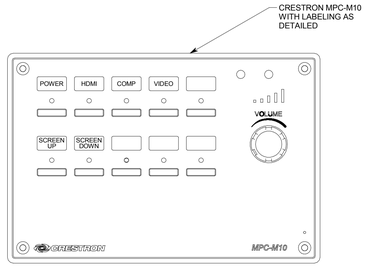


7 WALL CONTROLLER #3 DETAIL
NTS
WC3



6 WALL CONTROLLER #2 DETAIL
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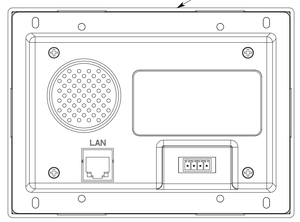
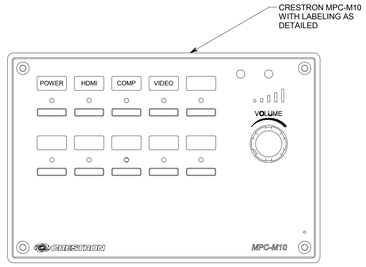
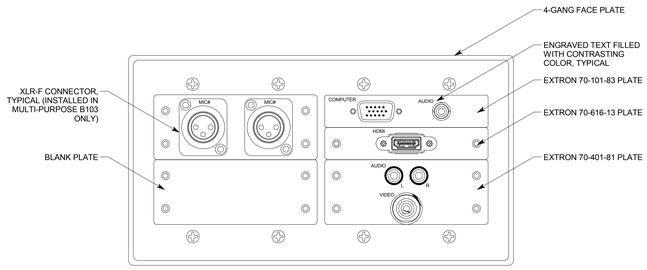
WC2



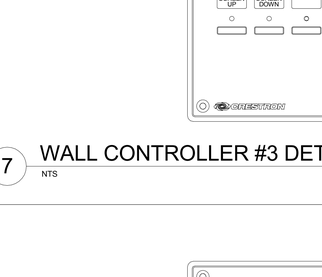
10 AUDIO-VIDEO FLOOR BOX DETAIL
NTS
TP



5 WALL CONTROLLER #1 DETAIL
NTS
WC1

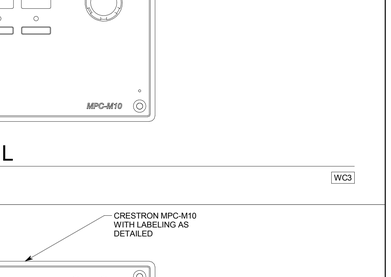


9 AUDIO-VIDEO FLOOR BOX DETAIL
NTS
FBAV



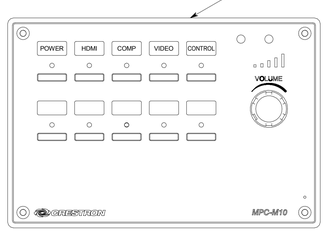
NOTE:
1. WHERE LOCATED PROVIDE COMPATIBLE FACEPLATE.

4 CONNECTION PANEL #4 DETAIL
NTS
CP4

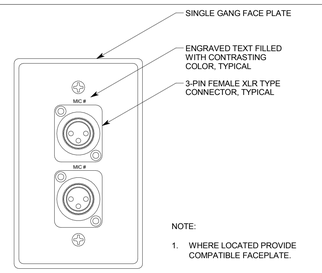


NOTE:
1. WHERE LOCATED PROVIDE COMPATIBLE FACEPLATE.

2 CONNECTION PANEL #2 DETAIL
NTS
CP2

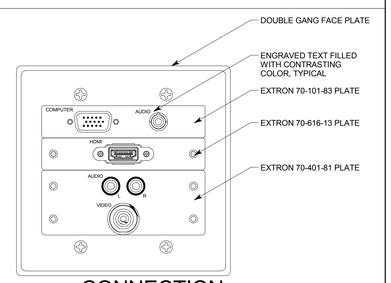


8 WALL CONTROLLER #4 DETAIL
NTS
WC4



NOTE:
1. WHERE LOCATED PROVIDE COMPATIBLE FACEPLATE.

3 CONNECTION PANEL #3 DETAIL
NTS
CP3



1 CONNECTION PANEL #1 DETAIL
NTS
CP1

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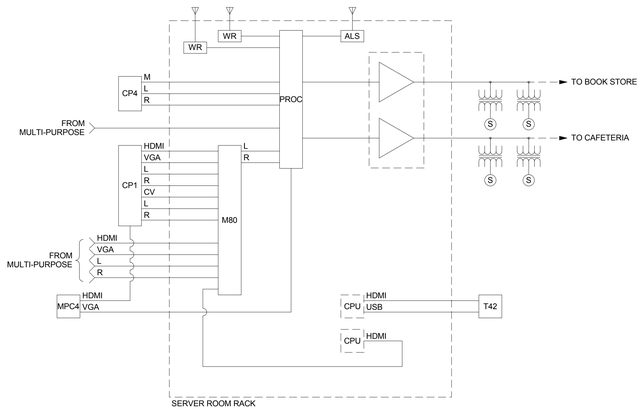
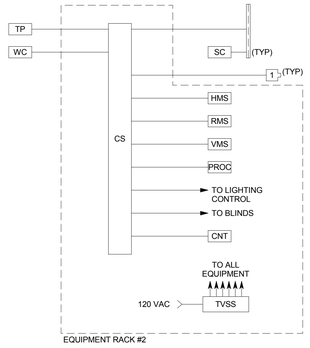


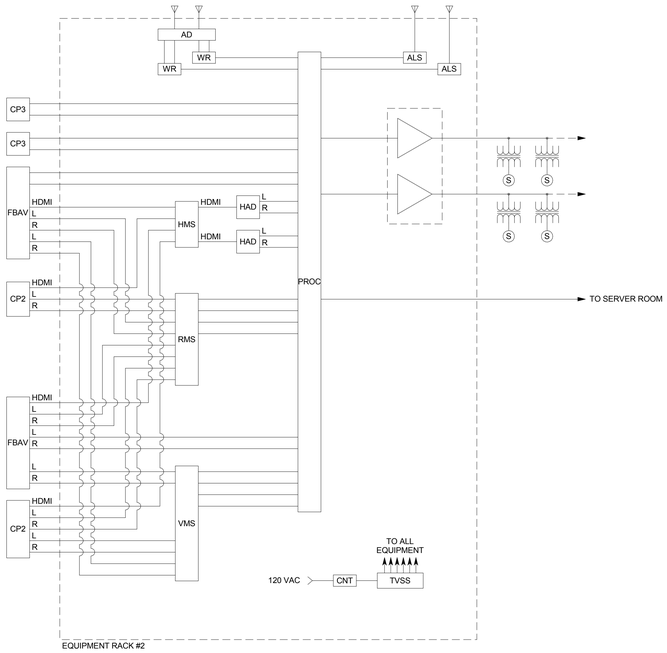
7 CAFETERIA/BOOKSTORE SYSTEM AUDIO-VIDEO RISER DIAGRAM

NTS



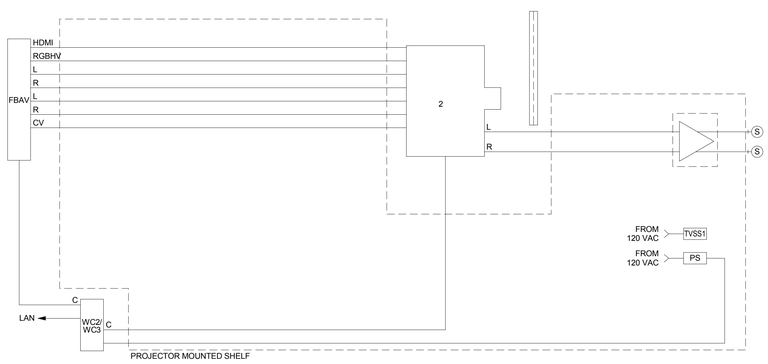
5 MULTI-PURPOSE ROOM B103 CONTROL RISER DIAGRAM

NTS



3 MULTI-PURPOSE ROOM B103 AUDIO RISER DIAGRAM

NTS

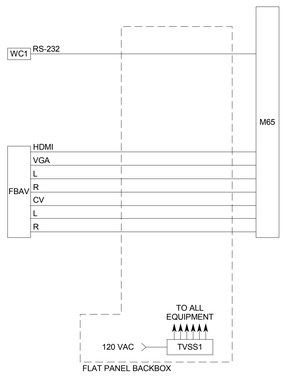


NOTE:

1. IF REQUIRED, MOUNT PLENUM RATED DEVICES SHOWN IN SHELF ABOVE CEILING.

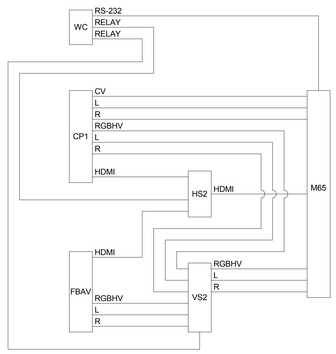
6 STANDARD CLASSROOM AUDIO-VIDEO-CONTROL RISER DIAGRAM W/ PROJECTOR

NTS - (TYPICAL OF LPN/CNA CLASSROOM A126, AND RN CLASSROOM A127)



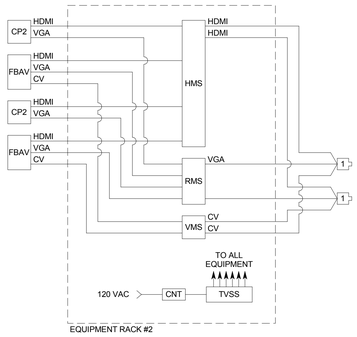
4 STANDARD CONF. ROOM AV-CONTROL DIAGRAM

NTS - (TYPICAL OF ROOMS A125, A201, A207)



2 STANDARD CLASSROOM MONITOR AUDIO-VIDEO RISER DIAGRAM

NTS - (TYPICAL A101, C102, C104, C112, C114, C124, A201, A207)



1 MULTI-PURPOSE ROOM B103 VIDEO RISER DIAGRAM

NTS

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VOICE-DATA EQUIPMENT/CABLE LIST

THE ITEMS INDICATED BELOW SHALL NOT BE CONSTRUED AS A "BILL OF MATERIALS". THIS LIST IDENTIFIES ITEMS OF SIGNIFICANCE USED DURING THE DESIGN OF THE CABLING INSTALLATION. WHERE THE ITEMS INDICATED ARE ONE PORTION OF AN ASSEMBLY, THE ENTIRE ASSEMBLY SHALL BE PROVIDED UNLESS SPECIFIED OTHERWISE. PROVIDE ALL MISCELLANEOUS HARDWARE AND SUPPORTS WHICH MAY NOT BE LISTED HERE, FOR A COMPLETE INSTALLATION. COMPARE CATALOG NUMBERS WITH DESCRIPTIONS AND NOTIFY ENGINEER OF DISCREPANCIES PRIOR TO BID. IF CATALOG NUMBERS DO NOT MATCH DESCRIPTIONS, THE DESCRIPTIONS TAKE PRECEDENCE. PROVIDE COMPLETE SUBMITTAL FOR APPROVAL PRIOR TO PURCHASING ANY EQUIPMENT OR CABLE. REFER TO SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.

SYMBOL	DESCRIPTION	ACCEPTABLE TYPES
FPP	FIBER OPTIC PATCH PANEL - BLACK, (QUANTITIES OF PORTS AS REQUIRED +25%)	SEE SPECIFICATIONS
	6 PORT DUPLEX LC FIBER PANEL CARD, BLACK	SEE SPECIFICATIONS
	BLANK FIBER PANEL CARD, BLACK	SEE SPECIFICATIONS
DPP	PATCH PANEL, DATA (QUANTITIES OF PORTS AS REQUIRED +25%)	SEE SPECIFICATIONS
	BUS BAR, 10", 20", W/ LUGS, AND MOUNTING ACCESSORIES	CHATSWORTH 10622-010/020
F(#)	24 STRAND FIBER, HYBRID, 12 STRAND SINGLE MODE AND 12 STRAND 50 MICRON LASER OPTIMIZED MULTIMODE	SEE SPECIFICATIONS
FB#	VOICE-DATA OUTLET FLOOR MOUNTED PROVIDE BEZEL COMPATIBLE WITH FLOOR BOX OR POKE THROUGH	SEE SPECIFICATIONS
PT#	BEZEL INSERTS	SEE SPECIFICATIONS
	CATEGORY 6 JACK-DATA (4) (6)	SEE SPECIFICATIONS
C	DATA OUTLET SINGLE GANG BEZEL (C = CEILING MOUNTED)	SEE SPECIFICATIONS
	BEZEL INSERTS	SEE SPECIFICATIONS
	CATEGORY 6 JACK-DATA (2)	SEE SPECIFICATIONS
(X) F	VOICE-DATA OUTLET SINGLE GANG BEZEL (F = FURNITURE MOUNTED)	SEE SPECIFICATIONS
	BEZEL INSERTS	SEE SPECIFICATIONS
	CATEGORY 6 JACK-DATA (2) (X)	SEE SPECIFICATIONS
E	WALL PHONE OUTLET SINGLE GANG BEZEL	SEE SPECIFICATIONS
	BEZEL INSERTS	SEE SPECIFICATIONS
	CATEGORY 6 JACK-DATA (1)	SEE SPECIFICATIONS
	TELEPHONE BOARD, 8' HIGH, FIRE TREATED, PAINTED WHITE	SEE SPECIFICATIONS
	CABLE RUNWAY-12", BLACK	CHATSWORTH 10250-712
	CABLE RUNWAY-18", BLACK	CHATSWORTH 10250-718
	CABLE RUNWAY RADIUS DROP, BLACK	CHATSWORTH 12100-712
	BUTT SPLICE KIT, BLACK	CHATSWORTH 11301-001
	JUNCTION SPLICE KIT, BLACK	CHATSWORTH 11302-001
	ADJ. JUNCTION SPLICE KIT, BLACK	CHATSWORTH 10616-001
	FOOT KIT, BLACK	CHATSWORTH 11309-701
	3" CHANNEL RACK TO RUNWAY, BLACK	CHATSWORTH 10595-712
	TRIANGLE BRACKETS 12", BLACK	CHATSWORTH
	EQUIPMENT RACK, OPEN FRAME 19", BLACK	CHATSWORTH 55053-703
S	SERVER RACK	OWNER FURNISHED, CONTRACTOR INSTALLED
PS	EQUIPMENT RACK POWER STRIP, 20A	LEVITON 5500-192
VWM	VERTICAL WIRE MANAGERS, BLACK, SIDE & CENTER	SEE SPECIFICATIONS
HWM	HORIZONTAL WIRE MANAGERS, BLACK, 2 RU	SEE SPECIFICATIONS
	COPPER CATEGORY 6 PATCH CABLES	SEE SPECIFICATIONS
	CAT 6 J-HOOKS	CADDY CAT32Z34
	FIBER CONNECTOR, LC, MULTI-MODE	SEE SPECIFICATIONS
	FIBER OPTIC PATCH CABLES, MULTI-MODE, LC TO LC	SEE SPECIFICATIONS
	1" INNERDUCT-PLENUM RATED	SEE SPECIFICATIONS

NOTE: ALL RACKS, LADDER, PATCH PANELS, AND ACCESSORIES SHALL BE BLACK IN COLOR.

GENERAL VOICE-DATA NOTES

1. SEE 'ES', 'EJ', AND 'EP' SHEETS FOR LAYOUTS AND ADDITIONAL INFORMATION.
2. PROVIDE PLENUM RATED CABLE IN ALL AIR PLENUMS. IF A PLENUM RATED CABLE IS NOT SPECIFIED, PROVIDE THE PLENUM RATED EQUIVALENT TO THE SPECIFIED CABLE.
3. ALL CABLE, REGARDLESS OF LENGTH, INSTALLED UNDER THIS CONTRACT ARE TO BE LABELED.
4. THE EQUIPMENT LABELING IDENTIFIED ON DETAILS IN THESE DRAWINGS ARE EXAMPLES ONLY OF THE ACTUAL LABELING WHICH IS REQUIRED AS PART OF THIS CONTRACT. PRIOR TO FABRICATION, SUBMIT THE NOMENCLATURE FOR ALL LABELS TO THE OWNER FOR REVIEW. THIS REQUIREMENT INCLUDES BUT IS NOT LIMITED TO ALL CABLE LABELING, AND ALL EQUIPMENT LABELING.
5. FOR EVERY CABLE PULL SPECIFIED, COIL 10' OF EXCESS CABLE AT THE AT THE CLOSET END, NEATLY COIL, AND LABEL.
6. UNLESS OTHERWISE NOTED, INSTALL ALL CABLE INSIDE RACEWAY SYSTEMS. WHERE RACEWAY SYSTEMS HAVE NOT BEEN PROVIDED OR SPECIFIED, INSTALL CABLE THROUGH THE SPECIFIED "CADDY" CLIPS INSTALLED ABOVE ACCESSIBLE CEILINGS AT THE MINIMUM INTERVALS IDENTIFIED IN THE SPECIFICATIONS. SUPPORT "CADDY" CLIPS DIRECTLY FROM THE BUILDING STRUCTURE, NOT FROM OTHER BUILDING SYSTEM SUPPORT WIRES OR CABLE.
7. GROUND ALL EQUIPMENT RACKS AS DETAILED.
8. ALL CABLE, FIBER, AND UTP TO TERMINATE ON BOTH ENDS.
9. COORDINATE RACK LAYOUTS WITH OWNER PRIOR TO INSTALLATION.
10. WELL IN ADVANCE OF INSTALLATION, COORDINATE WORK WITH ALL OTHER TRADES SO THAT ELECTRICAL EQUIPMENT, OR ITS INTENDED USE, IS NOT OBSTRUCTED BY EQUIPMENT BEING PROVIDED BY OTHER DIVISIONS.
11. INSTALL ALL ELECTRONIC SYSTEMS EQUIPMENT IN COMPLIANCE WITH THE MANUFACTURER'S WRITTEN INSTRUCTIONS, SEISMIC CODES, AND INDUSTRY WIDE ACCEPTED PRACTICES. SUPPORT EQUIPMENT WEIGHT FROM BUILDING STRUCTURE. DURING THE SUBMITTAL PROCESS, PROVIDE SHOP DRAWINGS WHICH DETAIL PROPOSED MOUNTING FOR ALL SUCH EQUIPMENT.
12. 'A' INDICATES MOUNTING ABOVE COUNTER. VERIFY HEIGHT OF POWER OUTLET AND MOUNT DATA OUTLET NEXT TO POWER OUTLET.
13. ALL DATA OUTLETS ON WALLS AND FLOORS SHALL BE MOUNTED WITHIN 6" OF A POWER OUTLET. IF CONTRADICTIONS ARISE ON PLANS, NOTIFY ENGINEER.
14. FOR ALL 4" CONDUITS SPECIFIED FOR TELECOMMUNICATIONS, PROVIDE 4 EACH 1" INNERDUCTS.
15. STRUCTURED CABLING SHALL COMPLY WITH TATC STANDARDS AND SHALL BE SYSTIMAX CABLE AND THE CONNECTIVITY IN THE RACK SHALL BE VISIPATCH SYSTEM.
16. TYPICAL OF ALL LOCATIONS ON PLANS.
17. SEE 'EJ' SHEETS FOR LOCATION OR WALL CONNECTION PANEL "WC#."
18. FOR ALL DATA CABLES IN FLOOR BOXES AND POKE-THRU'S VERIFY TERMINATION OF CABLE WITH FLOOR BOX OR POKE-THRU WITH FURNITURE. WHERE DATA CABLE CAN SLEEVE INTO FURNITURE TERMINATE TO LOCATION SUPPLIED BY FURNITURE MANUFACTURER. WHERE CONDUIT OR POKE-THRU IS A SLEEVE INTO FURNITURE OR MILLWORK, PROVIDE A SURFACE MOUNT BOX WITH A FACEPLATE FOR TERMINATION OF CABLES.

REGISTERED PROFESSIONAL ENGINEER No. 7662 STATE OF UTAH

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Telecom Schedules and Notes

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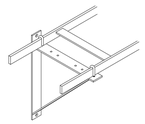
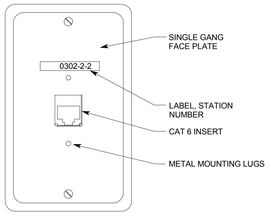
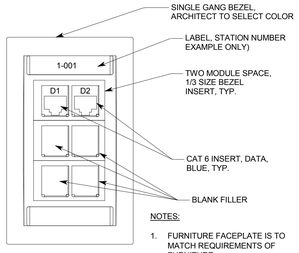


12 TRIANGLE BRACKET DETAIL
NTS



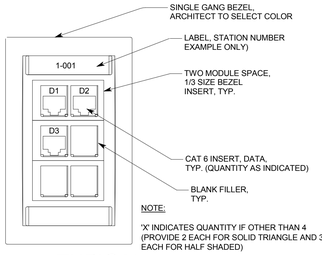
10 WALL MOUNTED PHONE PLATE DETAIL
NTS



NOTES:

1. FURNITURE FACEPLATE IS TO MATCH REQUIREMENTS OF FURNITURE.

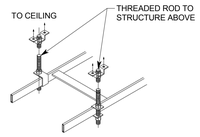
5 TYPICAL VOICE-DATA OUTLET DETAIL
NTS



NOTE:

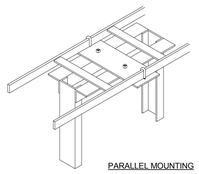
'X' INDICATES QUANTITY IF OTHER THAN 4 (PROVIDE 2 EACH FOR SOLID TRIANGLE AND 3 EACH FOR HALF SHADED)

4 TYPICAL VOICE-DATA OUTLET DETAIL
NTS



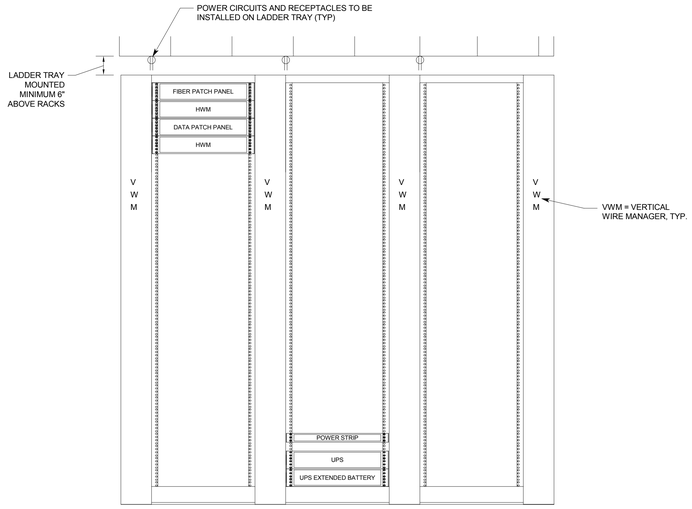
USE THIS ONLY IN OPEN AREAS WITHOUT EQUIPMENT RACKS. ATTACH LADDER RACK TO EQUIPMENT RACK TOPS WHENEVER POSSIBLE.

11 OVERHEAD SUPPORT DETAIL
NTS



PARALLEL MOUNTING

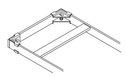
9 3" CHANNEL RACK-TO-RUNWAY MOUNT
NTS



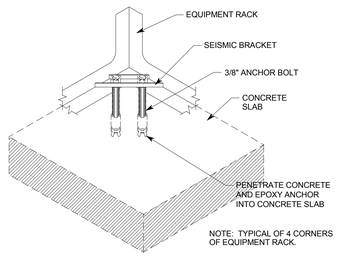
NOTES:

1. RACKS FOR OWNER'S EQUIPMENT AND "SPARE" ARE TO BE PROVIDED UNDER CONTRACT.
2. COORDINATE WITH COLLEGE IT PERSONNEL ON EQUIPMENT PLACEMENT AND DENSITY PRIOR TO ANY CABLE TERMINATION.

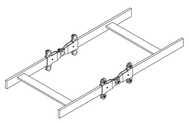
3 RACK ELEVATIONS FOR MAIN SERVER ROOM
NTS



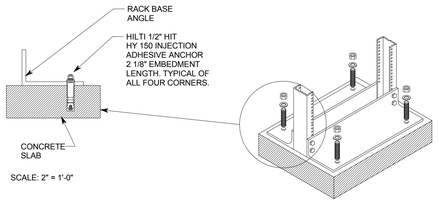
15 CABLE RUNWAY END CLOSING DETAIL
NTS



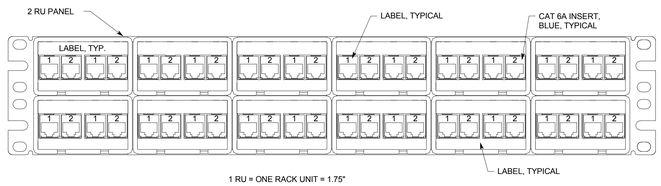
8 EQUIPMENT RACK SEISMIC BRACING
NTS



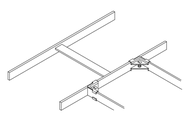
14 SWIVEL SPLICE KIT FOR ELEVATION TRANSITION
NTS



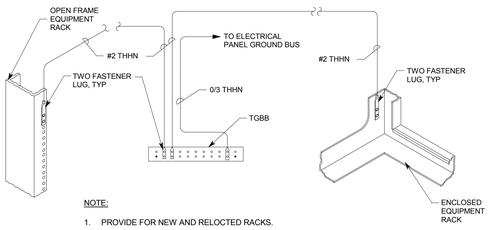
7 EQUIPMENT RACK ANCHORAGE DETAIL
NTS



2 PATCH PANEL DETAIL (PP), 48 PORT, TYPICAL
NTS



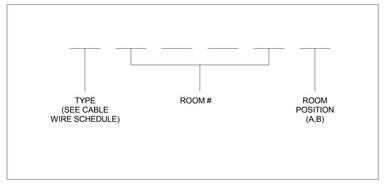
13 CABLE RUNWAY SPLICE DETAIL
NTS



NOTE:

1. PROVIDE FOR NEW AND RELOCTED RACKS.

6 TYPICAL RACK GROUNDING DETAIL
NTS



NOTES:

1. ALL CABLE/WIRE, REGARDLESS OF LENGTH, SHALL BE LABELED WITH A UNIQUE IDENTIFYING CODE. LABEL SHALL BE PERMANENT AND SHALL BE MACHINE PRINTED (NOT HAND PRINTED). SUBMIT PROPOSED LABEL MATERIAL FOR APPROVAL.
2. PRIOR TO LABEL CREATION, SUBMIT FOR APPROVAL PROPOSED ROOM NUMBER SCHEME FOR CABLE LABELS.

1 CABLE LABEL DETAIL
NTS

01/18/2012

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project:
TOOELE APPLIED TECHNOLOGY COLLEGE - NEW BUILDING

88 South Tooele Blvd
Tooele, UT 84074

project#: 11.0420
date: 1/20/11

revisions :

Telecom Details

sheet:

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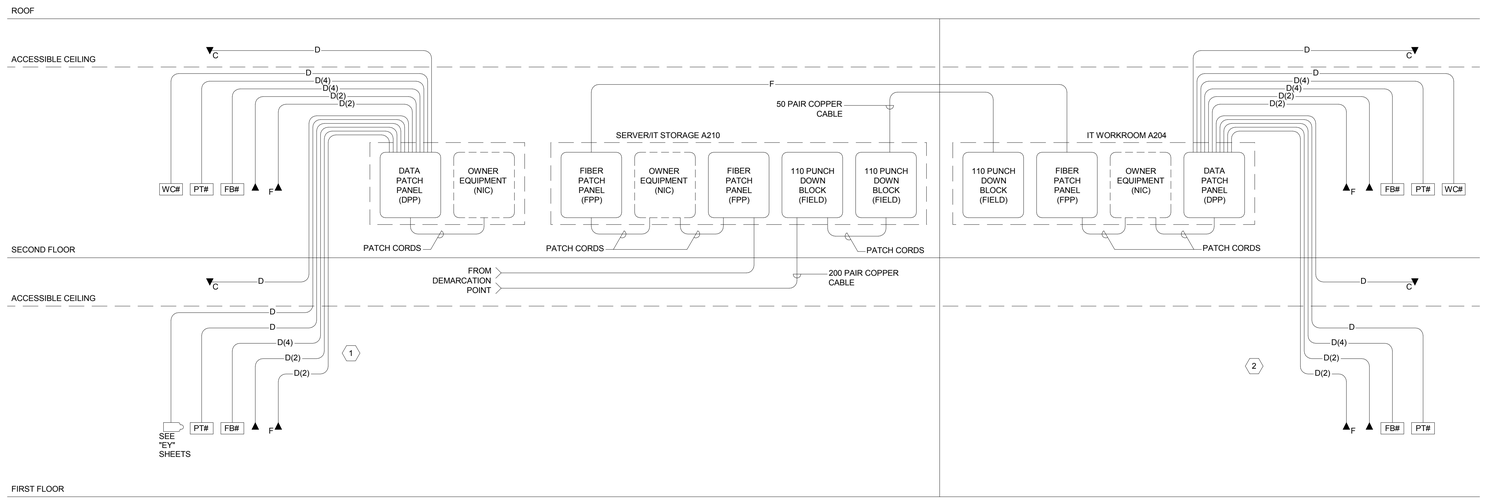

1 VOICE-DATA SINGLE LINE RISER DIAGRAM

NTS

SHEET KEYNOTES

1. ROUTE ALL DATA CABLES ON FIRST FLOOR THAT ARE WITHIN DISTANCE TO SERVER ROOM ON SECOND FLOOR, REGARDLESS OF LOCATION.
2. ROUTE DATA CABLES ON FIRST FLOOR TO IT WORKSTATION A204 ON SECOND FLOOR ONLY IF THEY CANNOT BE ROUTED TO SERVER ROOM BECAUSE OF DISTANCE LIMITATIONS, REGARDLESS OF LOCATION.

REGISTERED PROFESSIONAL ENGINEER No. 7162 STATE OF UTAH

01/18/2012

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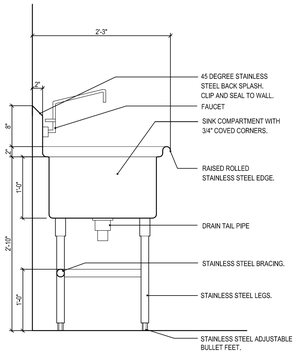
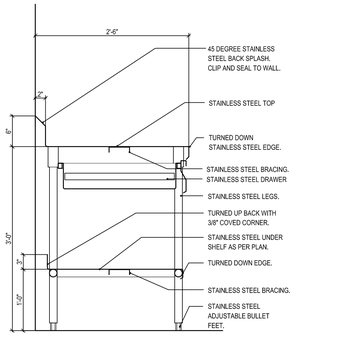
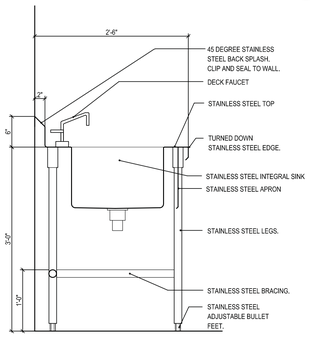


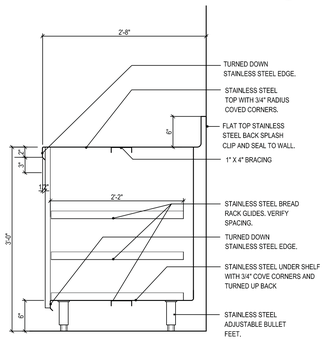
THREE COMPARTMENT SINK SECTION DETAIL (B / FS101)
SCALE: 1" = 1'-0"



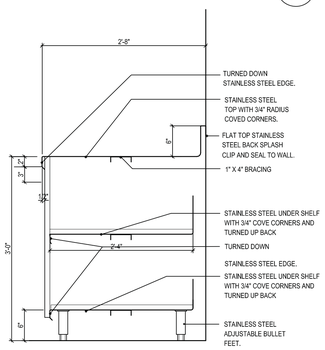
WALL WORK TABLE SECTION DETAIL (C / FS101)
SCALE: 1" = 1'-0"



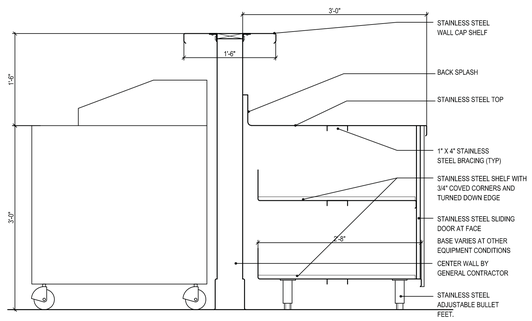
WALL WORK TABLE, SINK SECTION DETAIL (D / FS101)
SCALE: 1" = 1'-0"



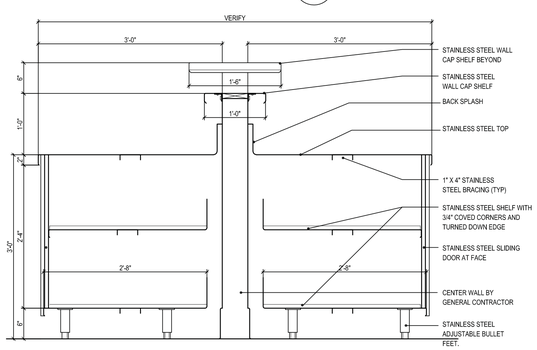
UTILITY SERVICE COUNTER, BREAD SECTION DETAIL (E / FS101)
SCALE: 1" = 1'-0"



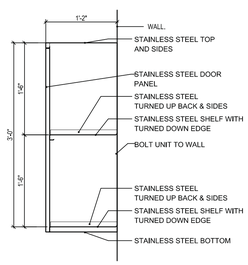
UTILITY SERVICE COUNTER SECTION DETAIL (F / FS101)
SCALE: 1" = 1'-0"



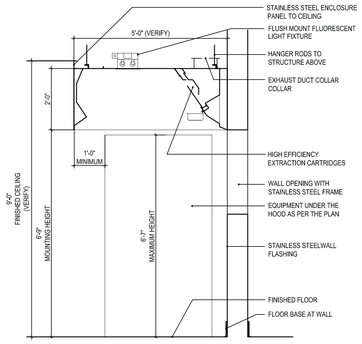
ISLAND WORK COUNTER SECTION DETAIL (G / FS101)
SCALE: 1" = 1'-0"



ISLAND WORK COUNTER SECTION DETAIL (H / FS101)
SCALE: 1" = 1'-0"



UTILITY SERVICE COUNTER SECTION DETAIL (I / FS101)
SCALE: 1" = 1'-0"



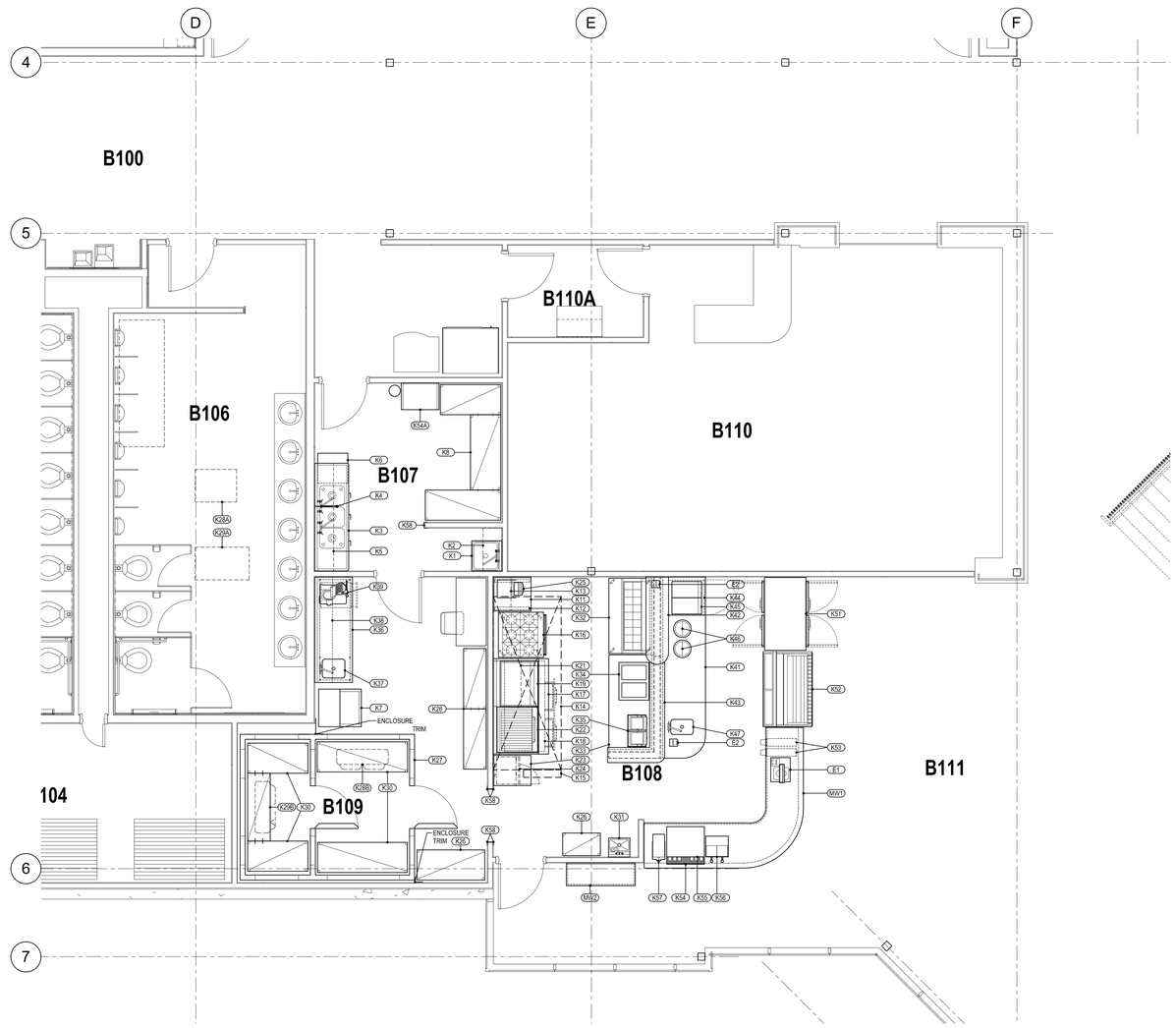
EXHAUST HOOD SECTION DETAIL (A / FS101)
SCALE: 1/2" = 1'-0"

CHEDULE: FOOD SERVICE EQUIPMENT

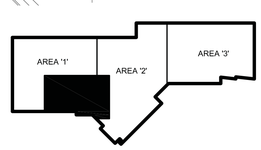
ITEM	QTY	UNIT	DESCRIPTION		ITEM	QTY	UNIT	DESCRIPTION
E-1	1	EACH	MOP SINK: PROVIDED BY PLUMBING SECTION		#K-30	1	LOT	WALK-IN SHELVING
E-2	1	EACH	STAINLESS STEEL LOCKING WALL CABINET		#K-31	1	EACH	WALL MOUNT HAND SINK
E-3	1	EACH	STAINLESS STEEL THREE COMPARTMENT SINK		#K-32	1	EACH	REFRIGERATED SNADWICH TABLE
E-4	1	EACH	PRE-RINSE SPRAY FILL FAUCET		#K-33	1	EACH	STAINLESS STEEL WORK COUNTER
E-5	1	EACH	STAINLESS STEEL WALL SHELF/POT RACK		#K-34	1	EACH	DROP-IN HOT FOOD WARMER: SINGLE SECTION
E-6	1	EACH	UNDERCOUNTER DISHWASHER		#K-35	1	EACH	PANINI GRILL: DOUBLE
E-7	1	EACH	ICE MAKER AND BIN		#K-36	1	EACH	STAINLESS STEEL WORK COUNTER
E-8	1	LOT	STORAGE SHELVING		#K-37	1	EACH	DROP-IN UTILITY SINK
E-9	-	-	SPARE NUMBER		#K-38	1	EACH	STAINLESS STEEL WALL SHELF
E-10	-	-	SPARE NUMBER		#K-39	1	EACH	SLICER
E-11	1	EACH	STAINLESS STEEL WORK COUNTER	ADD/ALT#6	#K-40	-	-	SPARE NUMBER
E-12	1	EACH	BREAD RACK GUIDES		#K-41	1	EACH	STAINLESS STEEL SERVICE COUNTER
E-13	1	EACH	STAINLESS STEEL WALL SHELF	ADD/ALT #6	#K-42	1	EACH	STAINLESS STEEL PASS SHELF
E-14	1	EACH	STAINLESS STEEL EXHAUST HOOD: TYPE I	ADD/ALT #6	#K-43	1	EACH	STAINLESS STEEL PASS SHELF
E-15	1	SYS	FIRE PROTECTION SYSTEM	ADD/ALT #6	#K-44	1	EACH	UNDERCOUNTER REFRIGERATOR
E-16	1	EACH	SIX BURNER RANGE WITH CONVECTION OVEN BASE: GAS	ADD/ALT #6	#K-45	1	EACH	AUTOMATIC ESPRESSO MACHINE
E-17	1	EACH	STAINLESS STEEL GRILL STAND CABINET	ADD/ALT #6	#K-46	2	EACH	DROP-IN SOUP WARMERS
E-18	1	EACH	REFRIGERATED CHEF'S BASE	ADD/ALT #6	#K-47	1	EACH	DROP-IN UTILITY SINK
E-19	1	EACH	FLAT TOP GRIDDLE: GAS	ADD/ALT #6	#K-48	-	-	SPARE NUMBER
E-20	-	-	SPARE NUMBER		#K-49	-	-	SPARE NUMBER
E-21	1	EACH	SALAMANDER BROILER	ADD/ALT #6	#K-50	-	-	SPARE NUMBER
E-22	1	EACH	OPEN FACE BROILER: GAS	ADD/ALT #6	#K-51	1	EACH	PASS-THROUGH MERCHANDISING REFRIGERATOR
E-23	1	EACH	STAINLESS STEEL WORK COUNTER	ADD/ALT #6	#K-52	1	EACH	AMBIENT SERVE, REFRIGERATED SELF SERVE DISPLAY CASE
E-24	1	EACH	MICROWAVE OVEN: WITH STAINLESS STEEL WALL SHELF		#K-53	6	EACH	CUP DISPENSER
E-25	1	EACH	ROTARY TOASTER		#K-54	1	EACH	SODA DISPENSER: PROVIDED BY VENDER
E-26	1	LOT	KITCHEN SHELVING		#K-55	1	EACH	ICE MAKER
E-27	1	EACH	WALK-IN COOLER AND FREEZER		#K-56	1	EACH	COFFEE BREWER: PROVIDED BY VENDER
E-28A	1	SYS	COOLER REFRIGERATION SYSTEM: REMOTE CONDENSER		#K-57	1	EACH	ICE TEA DISPENSER: PROVIDED BY VENDER
E-28B	1	SYS	COOLER REFRIGERATION SYSTEM: BLOWER COIL					
E-29A	1	SYS	FREEZER REFRIGERATION SYSTEM: REMOTE CONDENSER		#E-01	1	SYS	POS REGISTER: PROVIDED BY OWNER
E-29B	1	SYS	FREEZER REFRIGERATION SYSTEM: BLOWER COIL		#E-02	2	EACH	PRINTER: PROVIDED BY OWNER

SCHEDULE: CABINETS (PROVIDED BY OTHER SECTION)

ITEM	QTY	UNIT	DESCRIPTION
#MW-1	1	EACH	SERVICE COUNTER:
#MW-2	1	EACH	CONDIMENT COUNTER
#MW-3	1	EACH	TRASH COUNTER



1 LEVEL 1 FOOD SERVICE EQUIPMENT PLAN
1/4" = 1'-0"



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project:
TOOELE APPLIED TECHNOLOGY COLLEGE NEW BUILDING

88 South Tooele Blvd
Tooele, UT 84074

project#: 11.0420
date: 01/20/2012

revisions :

Food Service Equipment Plan

sheet:
FS101

100% CONSTRUCTION DOCUMENTS

BUILDING REQUIREMENTS
GENERAL NOTES:

A. See Plumbing Rough-In Plan for requirements for drains, water, gas and refrigeration lines.

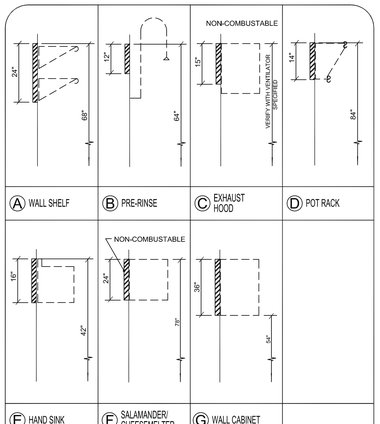
B. See Electrical Rough-In Plan for requirements for outlets, junction boxes, loads, voltages, and phases.

C. See Mechanical and Electrical Plans for requirements of ventilation systems.

D. Verify blocking requirements with suppliers for those items not provided by Kitchen Equipment Contractor.

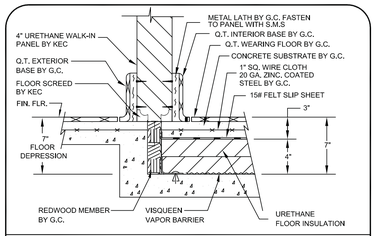
E. All dimensions are to be field verified for compliance prior to fabrication/installation. All Dimensions shown are critical and are from finished wall.

F. See Plumbing, Electrical and Mechanical Plans for further information and requirements.



NOTES:
1. ALL DIMENSIONS ARE TO FINISHED FLOOR.
2. ALL WALLBACKING TO BE 14GA STEEL PLATE SECURELY ATTACHED TO STUDS.

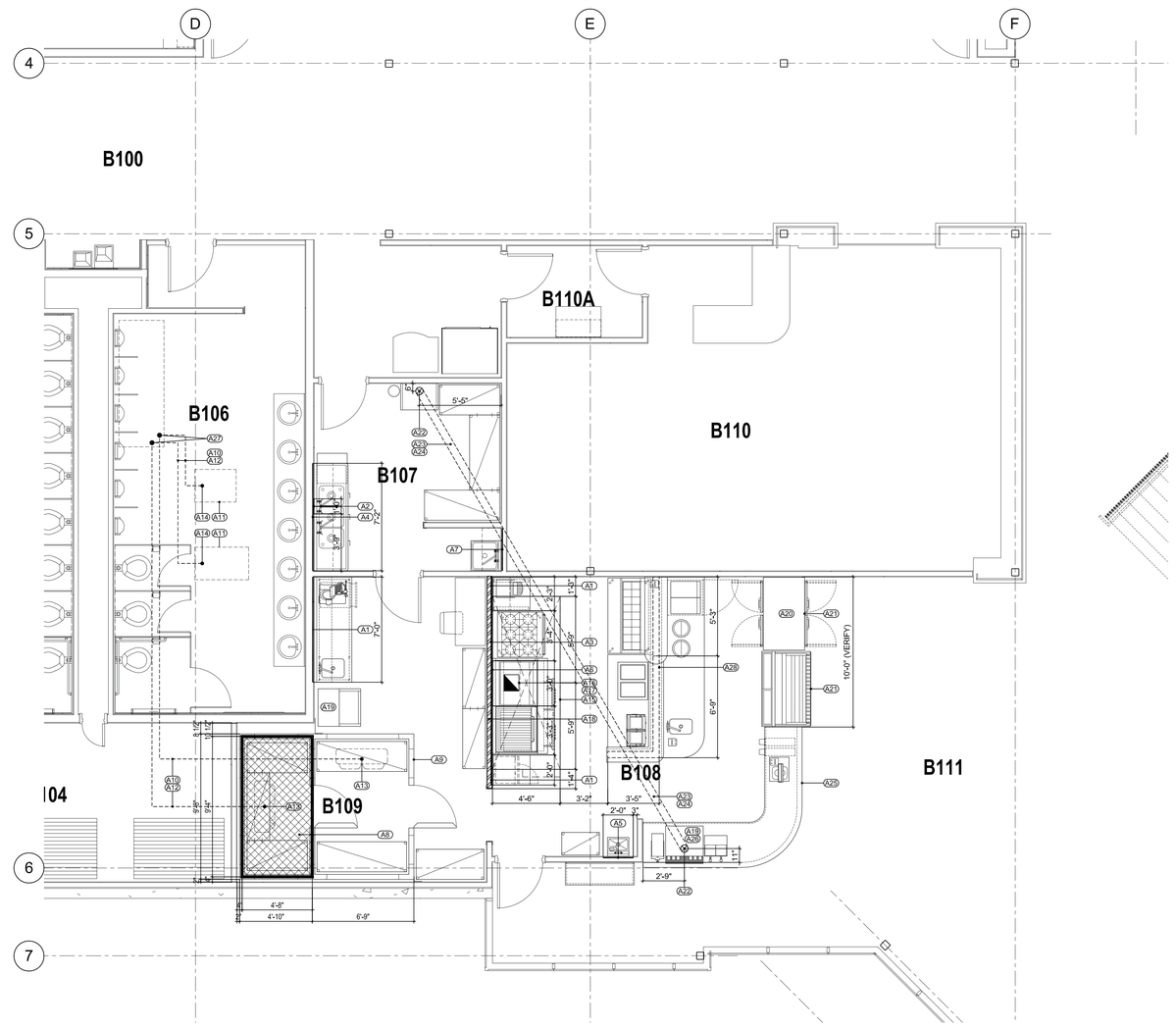
WALL BACKING DETAIL



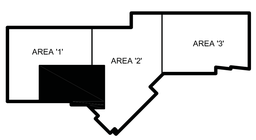
COLD STORAGE ROOM AT EXTERIOR WALL - 7" DEPRESSION

BUILDING REQUIREMENTS NOTE SCHEDULE

A1	G.C. TO PROVIDE BLOCKING IN WALL FOR WALL SHELF. SEE DETAIL 'A'
A2	G.C. TO PROVIDE BLOCKING IN WALL FOR PRE-RINSE FAUCET. SEE DETAIL 'B'
A3	G.C. TO PROVIDE BLOCKING IN WALL FOR EXHAUST HOOD. SEE DETAIL 'C'
A4	G.C. TO PROVIDE BLOCKING IN WALL FOR POT RACK/WALL SHELF. SEE DETAIL 'D'
A5	G.C. TO PROVIDE BLOCKING IN WALL FOR HAND SINK. SEE DETAIL 'E'
A6	G.C. TO PROVIDE BLOCKING IN WALL FOR SALAMANDER OVEN. SEE DETAIL 'F'
A7	G.C. TO PROVIDE BLOCKING IN WALL FOR WALL CABINET. SEE DETAIL 'G'
A8	G.C. TO PROVIDE INSULATED FLOOR SLAB SYSTEM AT WALK-IN FREEZER. SEE DETAILS AND MANUFACTURER'S SHOP DRAWINGS
A9	WALK-IN FREEZER/COOLER BOX SET ON SUB FLOOR. G.C. TO PROVIDE FLOOR TILE AND COVE BASE TO EXTEND INTO BOXES AFTER INSTALLATION/UNITS.
A10	G.C. TO PROVIDE FLOOR AND WALL CHASES IN BUILDING FOR REFRIGERATION LINES, FROM WALK-IN BOXES TO REMOTE REFRIGERATION UNIT ON ROOF ABOVE. VERIFY LOCATION AND SIZE WITH REFRIGERATION INSTALLER. G.C. TO FILL IN CHASE OPENINGS AFTER REFRIGERATION LINES ARE INSTALLED.
A11	REMOTE REFRIGERATION CONDENSER BY KEC. VERIFY LOCATION ON ROOF WITH ARCHITECTURAL PLANS.
A12	REFRIGERATION LINE RUNS FROM BLOWER COILS TO REMOTE CONDENSER ON ROOF. CONNECTION BY KEC. RUN ABOVE KITCHEN CEILING TO ROOF CHASE AT CONDENSERS. PROVIDE SUPPORT AS REQUIRED. VERIFY LOCATION AND ROUTE.
A13	REFRIGERATION LINE CONNECTION TO BLOWER COIL BY KEC.
A14	REFRIGERATION LINE CONNECTION TO REMOTE CONDENSER UNIT ON ROOF ABOVE. BY KEC.
A15	ITEM #K-14 EXHAUST HOOD, WALL CANOPY, BOX STYLE, TYPE I, (1) SECTION EACH, KEC TO MOUNT FROM STRUCTURE ABOVE AND TO BACK WALL BLOCKING. SEE HOOD SECTION DETAIL.
A16	MECHANICAL CONTRACTOR TO CONNECT EXHAUST SYSTEM TO EXHAUST DUCT COLLAR, (1) EACH REQUIRED AT 1,725 CFM EACH, FOR A TOTAL EXHAUST OF 1,725 CFM AT 0.37" W.C. STATIC PRESSURE AT 1,600 DUCT VELOCITY.
A17	MAKE-UP AIR TOTALLING 80% OF THE EXHAUSTED AIR OR 1,380 CFM IS TO BE INTEGRATED WITH EXHAUST SYSTEM AND INTRODUCED TO THE SPACE FROM THE MECHANICAL SYSTEM AND INTEGRATED WITH EXHAUST SYSTEM.
A18	G.C. TO PROVIDE NON COMBUSTIBLE WALL ASSEMBLY AT WALL BEHIND EXHAUST HOOD AND AT CEILING ABOVE EXHAUST HOOD WITHIN 18" OF HOOD.
A19	MECHANICAL SYSTEM TO PROVIDE VENTILATION AT ICE MAKER. TO EXHAUST 13 MBTU PER HOUR.
A20	MECHANICAL SYSTEM TO PROVIDE VENTILATION AT DOUBLE REFRIGERATOR. TO EXHAUST 1 MBTU PER HOUR.
A21	PROVIDE OPENING FROM WALL TO START OF COUNTER TOP TO FIT MERCHANDISING REFRIGERATOR AND MERCHANDISING DISPLAT CASE.
A22	6" DIAMETER PVC CHASE THROUGH FLOOR FOR SODA SYRUP LINES FROM CHASE BELOW WITH 4" EXTENSION ABOVE FINISHED FLOOR. PROVIDE WITH SMOOTH SWEEPS NO LESS THAN 12" RADIUS. VERIFY WITH VENDER
A23	6" DIAMETER PVC CHASE RUN BELOW FLOOR FOR SODA SYRUP LINES FROM CHASES THROUGH FLOOR. PROVIDE WITH SMOOTH SWEEPS NO LESS THAN 12" RADIUS. VERIFY WITH VENDER.
A24	SODA VENDER TO PROVIDE BUNDLED SYRUP LINES TO RUN IN 6" DIAMETER PVC CHASE WITH MINIMAL 12" RADIUS BEND.
A25	SERVING COUNTER BY MILLWORK CONTRACTOR, WITH FINISHED HEIGHT AT TOP OF COUNTER AT +34" A.F.F. SEE ARCHITECTURAL DETAILS.
A26	VERIFY ADEQUATE CLEARANCE ABOVE COUNTER TO FIT AND VENTILATE SODA DISPENSER AND ICE MAKER.
A27	REFRIGERATION LINE SETS TO EXTEND FROM ABOVE LEVEL 1 CEILING TO ROOF THROUGH CHASE PROVIDED.
A28	LOW WALL TO SUPPORT PASS SHELF. EAST END OF WALL TO HAVE FINISHED TOP AT +48" A.F.F AND WEST END OF WALL TO HAVE FINISHED TOP AT +54" A.F.F.



1 LEVEL 1 FOOD SERVICE EQUIPMENT BUILDING REQUIREMENT PLAN
1/4" = 1'-0"



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TOOELE APPLIED TECHNOLOGY COLLEGE NEW BUILDING

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Food Service Equipment Building Requirement Plan

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FS102

100% CONSTRUCTION DOCUMENTS

PLUMBING ROUGH-IN/FINAL CONNECTION SCHEDULE

ROUGH-IN REQUIREMENTS				CONNECTION REQUIREMENTS					REMARKS
RI#	ROUGH-IN TYPE	SIZE	HGT	#	ITEM # : EQUIPMENT DESCRIPTION	SIZE	HGT		REMARK
P-01	DIRECT DRAIN	1-1/2"	VERIFY	–	#K1 : MOP SINK	1-1/2"	VER		VERIFY WITH SUPPLIER. SEE PLUMBING PLANS FOR ADDITIONAL REQUIREMENTS.
P-02	HOT & COLD WATER	1/2"	VERIFY	–	#K1 : MOP SINK	1/2"	VER		VERIFY WITH SUPPLIER. SEE PLUMBING PLANS FOR ADDITIONAL REQUIREMENTS.
P-03	FLOOR SINK	2"	+0"	A	#K3 : THREE COMPARTMENT SINK	1-1/2"	+24"		HALF GRATE TOP. NOTE #1. THREE EACH CONNECTIONS.
				B	#K6 : DISHWASHER	3/4"	+4"		NOTE #1.
P-04	HOT & COLD WATER	1/2"	+18"	–	#K3 : THREE COMPARTMENT SINK; FAUCET	1/2"	+36"		TWO EACH CONNECTIONS.
P-05	HOT WATER	3/4"	+12"	–	#K6 : DISHWASHER	3/4"	+2"		WATER IN: 140 F. 15-25 PSI. PC TO INSTAL WATER HAMMER ARRESTOR. 4-6 GRAINS WATER HARDNESS.
P-06	FLOOR SINK	2"	+0"	A	#K29B : WALK-IN FREEZER: BLOWER COILS	1"	+78"		HALF GRATE TOP. NOTE #1.
				B	#K28B : WALK-IN COOLER; BLOWER COILS	1"	+78"		NOTE #1.
				C	#K7 : ICE MAKER	1"	+42"		NOTE #1
				D	#K7 : ICE MAKER	1"	+42"		NOTE #1.
				E	#K7 : ICE BIN	1"	+4"		NOTE #1.
P-07	COLD WATER	1/2"	+72"	–	#K7 : ICE MAKER	1/2"	+54"		INSTALL IN LINE FILTER SYSTEM.
P-08	DIRECT DRAIN	1-1/2"	+18"	–	#K31 : HAND SINK	1-1/2"	+28"		–
P-09	HOT & COLD WATER	1/2"	+18"	–	#K31 : HAND SINK	1/2"	+36"		–
P-10	NATURAL GAS	3/4"	+30"	–	#K22 : UNDER FIRE BROILER	3/4"	+32"		120,000 BTU/HR. NOTE #2 & #3.
P-11	NATURAL GAS	3/4"	+76"	–	#K21 : SALAMANDER BROILER	3/4"	+76"		40,000 BTU/HR. NOTE #2 & #3.
P-12	NATURAL GAS	3/4"	+30"	–	#K19 : GRIDDLE	3/4"	+32"		90,000 BTU/HR. NOTE #2 & #3.
P-13	NATURAL GAS	3/4"	+18"	–	#K16 : SIX BURNER RANGE WITH OVEN	3/4"	+30"		243,000 BTU/HR. NOTE #2 & #3.
P-14	HOT WATER	1/2"	+12"	–	#K34 : HOT FOOD WARMER	1/2"	+24"		P.C. TO PROVIDE AND INSTALL REQUIRED BACK FLOW PREVENTOR.
P-15	FLOOR SINK	2"	+0"	A	#K34 : HOT FOOD WARMER	1"	+20"		HALF GRATE TOP. NOTE #1.
				B	#K46 : SOUP WARMER	1"	+24"		NOTE #1.
				C	#K46 : SOUP WARMER	1"	+24"		NOTE #1.
				D	#K45 : ESPRESSO MACHINE	1"	+36"		NOTE #1.
				E	#K47 : DROP-IN UTILITY SINK	2"	+24"		NOTE #1.
P-16	COLD WATER	1/2"	+12"	–	#K45 : ESPRESSO MACHINE	3/8"	+48"		INSTALL IN-LINE FILTER.
P-17	HOT & COLD WATER	1/2"	+12"	–	#K47 : DROP-IN UTILITY SINK; FAUCET	1/2"	+36"		–
P-18	FLOOR SINK	2"	+0"	–	#K52 : REFRIGERATED DISPLAY CASE	1"	+20"		HALF GRATE TOP. NOTE #1.
P-19	FLOOR SINK	2"	+0"	A	#K54 : SODA/ICE DISPENSER	1"	+36"		HALF GRATE TOP. NOTE #1. VERIFY WITH VENDER.
				B	#K55 : ICE MAKER	1"	+54"		NOTE #1.
				C	#K57 : ICE TEA DISPENSER	1/2"	+36"		NOTE #1. VERIFY WITH VENDER. CONNECT TO DRIP TROUGH AT UNIT.
				D	#K56 : COFFEE BREWER	1/2"	+36"		NOTE #1. VERIFY WITH VENDER. CONNECT TO DRIP TROUGH AT UNIT.
P-20	COLD WATER	1/2"	+12"	–	#K55 : ICE MAKER	1/2"	+84"		INSTALL FILTER. RUN FROM BELOW TO INLET AT BACK OF UNIT.
P-21	COLD WATER	1/2"	+12"	–	#K54 : SODA DISPENSER	1/2"	+36"		INSTALL FILTER. VERIFY WITH VENDER.
P-22	COLD WATER	1/2"	+12"	A	#K57 : ICE TEA DISPENSER	1/4"	+36"		INSTALL FILTER. VERIFY WITH VENDER. RUN THROUGH COUNTER TOP GROMMET.
				B	#K56 : COFFEE BREWER	1/4"	+36"		INSTALL FILTER. VERIFY WITH VENDER. RUN THROUGH COUNTER TOP GROMMET.

NOTE #1: PROVIDE INDIRECT AIR GAP DRAIN TO FLOOR SINK.

NOTE #2: K.E.C. TO PROVIDE QUICK DISCONNECT COUPLINGS AT GAS ROUGH-IN AND FINAL CONNECTION. TO BE INSTALLED BY PLUMBING CONTRACTOR.

NOTE #3: K.E.C. TO PROVIDE LEAK LIMITER PRESSURE REGULATOR AT GAS FINAL CONNECTION AS REQUIRED TO ADJUST FOR ALTITUDE. TO BE INSTALLED BY PLUMBING CONTRACTOR.

PLUMBING NOTES

1. PLUMBING PLANS SHOW ROUGH-IN POINTS AND SCHEDULED CONNECTIONS. KITCHEN EQUIPMENT CONTRACTOR WILL PROVIDE DIMENSIONED ROUGH-IN DRAWING FOR CONSTRUCTION.
2. WATER PRESSURE IN FOOD AND BEVERAGE AREAS SHOULD BE 50 PSIG (345 KPa) MAXIMUM. WATER PRESSURE AT DISHMACHINES, BOOSTER HEATERS, GLASS AND UTENSIL WASHERS TO BE 25 PSIG (172 KPa).
3. PLUMBING DIVISION SHALL FURNISH AND INSTALL ALL NECESSARY VALVES, TRAPS, TAIL PIECES, LINE STRAINERS, WATER PRESSURE REDUCING VALVES AND VACUUM BREAKERS AND CONNECT ALL WATER, FUEL GAS, STEAM AND WASTE LINES TO FOOD SERVICE AND BEVERAGE EQUIPMENT.
4. PLUMBING CONTRACTOR TO PROVIDE GAS SERVICES AT EQUIPMENT TO MAINTAIN AN 8" (203MM) WATER COLUMN. KITCHEN EQUIPMENT CONTRACTOR TO PROVIDE GAS PRESSURE REGULATORS AS REQUIRED BY CODE AND A.G.A. FOR INSTALLATION BY PLUMBING DIVISION INLINE BETWEEN BUILDING SERVICES AND EQUIPMENT.
5. PLUMBING DIVISION TO SUPPLY GAS SHUT OFF VALVE AT EACH EQUIPMENT CONNECTION AND INSTALL WITHIN EQUIPMENT SPREADERS OR CHASES FOR EASY ACCESSIBILITY.
6. MECHANICAL ENGINEER TO SIZE GAS ROUGH-IN FOR COOKING LINES; SCHEDULES SHOW LOADS ONLY FOR EACH PIECE NOT THE TOTAL LOOP GAS SERVICES WHEN PRACTICAL.
7. PLUMBING DIVISION SHALL INSTALL AND CONNECT ALL FAUCETS FURNISHED BY KEC.
8. PLUMBING DIVISION SHALL FURNISH AND INSTALL ALL INDIRECT SINK WASTE LINES TO FLOOR SINKS.
9. PLUMBING DIVISION TO PROVIDE ADEQUATE CLEAN-OUT FOR DRAIN LINES.
10. KITCHEN EQUIPMENT CONTRACTOR SHALL FURNISH AND INSTALL FIRE PROTECTION SYSTEM (INCLUDING FURNISHING SOLENOID SHUTOFF VALVES) PLUMBING DIVISION SHALL INSTALL SHUTOFF VALVE. VERIFY LOCATION WITH KEC.
11. FLOOR SINKS SHALL BE INSTALLED FLUISH WITH FINISH FLOOR OR PER LOCAL CODE WITH REMOVEABLE GRATE COVER AS INDICATED.
12. FLOOR DRAINS INDICATED ARE FOR FOOD AND BEVERAGE AREAS ONLY ADDITIONAL GENERAL PURPOSE AREA DRAINS SHALL BE LOCATED BY THE PLUMBING ENGINEER/ARCHITECT.

PLUMBING LEGEND

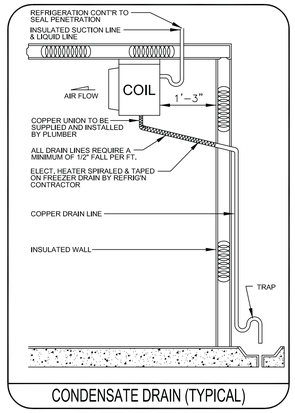
- HOT WATER
- COLD WATER
- GAS
- DIRECT WASTE DRAIN
- INDIRECT WASTE DRAIN
- FLOOR SINK WITH NO GRATE COVER
- FLOOR SINK WITH 1/2 GRATE COVER
- STUB UP FROM FLOOR
- MOUNT AT FLOOR
- DROP FROM ABOVE
- FLOOR DRAIN

NOTE: PLUMBING MOUNTING

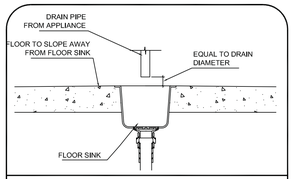
ALL WALL MOUNT PLUMBING UTILITIES ARE TO BE FLUSH MOUNTED IN WALLS WITH NO EXPOSED PIPING SHOWING ON SURFACE OF WALLS. ARCHITECT TO PROVIDE MINIMUM WALL FURING IF REQUIRED.

NOTE: PLUMBING COORDINATION

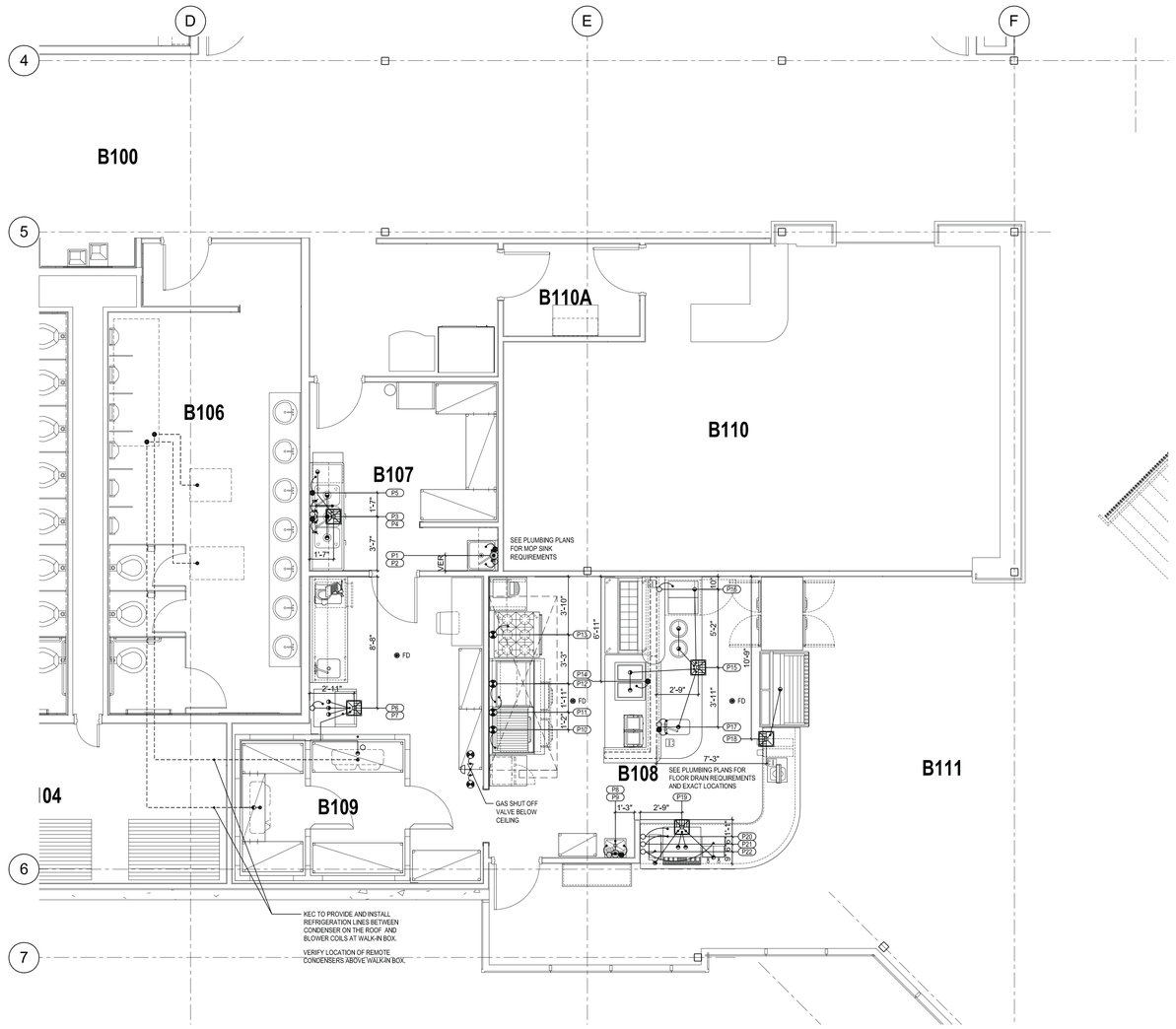
KITCHEN EQUIPMENT CONTRACTOR TO VERIFY AND COORDINATE PROPER LOCATION AND SIZE OF GENERAL CONTRACTOR FURNISHED STRUCTURAL PENETRATIONS AND PLUMBING DIVISION FURNISHED SLEEVES THRU FLOOR.



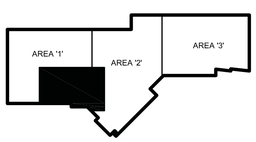
CONDENSATE DRAIN (TYPICAL)



FLOOR SINK SECTION DETAIL



1 LEVEL 1 FOOD SERVICE EQUIPMENT PLUMBING REQUIREMENT PLAN
1/4" = 1'-0"



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project:
TOOELE APPLIED TECHNOLOGY COLLEGE NEW BUILDING

88 South Tooele Blvd
Tooele, UT 84074

project#: 11.0420
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revisions :

Food Service Equipment Plumbing Requirement Plan

sheet:

FS103

100% CONSTRUCTION DOCUMENTS

BISTRO KITCHEN

ELECTRICAL ROUGH-IN/FINAL CONNECTION SCHEDULE

ROUGH-IN REQUIREMENTS		CONNECTION REQUIREMENTS					REMARKS
Rif	ROUGH-IN TYPE	HGT.	ITEM #: EQUIPMENT DESCRIPTION	VLT/CYC/PH	LOAD	CONN	REMARK
E-01	OUTLET	+18"	#K6 : DISHWASHER	120-208/60/1	38 AMP	C&P	
E-02	OUTLET	+48"	#K39 : SLICER	115/60/1	1/2 HP	C&P	NOTE #8.
E-03	CONVENIENCE OUTLET	+48"	#K36 : WORK TABLE	120/60/1	180 WATT	C&P	–
E-04	JUNCTION BOX	+54"	#K7 : ICE MAKER	208/60/1	11.9 AMP	J-BOX	–
E-05	OUTLET	+18"	– : BASE COMPUTER	120/60/1	VERIFY	C&P	NOTE #1.
E-06	DATA OUTLET	+18"	– : BASE COMPUTER	–	–	–	NOTE #2.
E-07	JUNCTION BOX	+108"	#K29A : WALK-IN FREEZER REF: CONDENSER	208-230/60/1	6.9 AMP	J-BOX	LOCATED AT CONDENSERS ON ROOF. VERIFY LOCATION. 1 HP.
E-08	JUNCTION BOX	DFA	#K29B : WALK-IN FREEZER REF: BLOWER COILS	208/60/1	2 AMP	J-BOX	INTERCONNECT CONTROLS WITH REMOTE CONDENSER.
E-09	JUNCTION BOX	DFA	#K29B : WALK-IN FREEZER REF: DEFROST HTR	208-230/60/1	8.7 AMP	J-BOX	INTERCONNECT CONTROLS WITH REMOTE CONDENSER.
E-10	JUNCTION BOX	DFA	#K27 : WALK-IN FREEZER: LIGHTS AND HEATER	115/60/1	3 AMP	J-BOX	–
E-11	JUNCTION BOX	+108"	#K28A : WALK-IN COOLER REF: CONDENSER	208-230/60/3	7.4 AMP	J-BOX	LOCATED AT CONDENSERS ON ROOF. VERIFY LOCATION. 1 HP.
E-12	JUNCTION BOX	DFA	#K28B : WALK-IN COOLER REF: BLOWER COILS	115/60/1	4.2 AMP	J-BOX	INTERCONNECT CONTROLS WITH CONDENSER.
E-13	JUNCTION BOX	DFA	#K27 : WALK-IN COOLER: LIGHTS AND HEATER	115/60/1	4 AMP	J-BOX	INTERCONNECT (1) ADDITIONAL LIGHTS.
E-14	OUTLET	+48"	#K25 : ROTARY TOASTER	208/60/1	13.6 AMP	C&P	–
E-15	CONVENIENCE OUTLET	+48"	#K11 : WORK COUNTER	120/60/1	180 WATT	C&P	–
E-16	JUNCTION BOX	DFA	#K14 : EXHAUST HOOD	120/60/1	600 WATT	J-BOX	INTERCONNECT WITH EXHAUST SYSTEM AND HOOD SWITCH. INTERCONNECT WITH SHUNT TRIP
E-17	SWITCH/CONTROLS	+54"	#K14 : EXHAUST HOOD: SWITCH	120/60/1	–	–	INTERCONNECT WITH EXHAUST SYSTEM AND EXHAUST HOOD. NOTE #5.
E-18	JUNCTION BOX	DFA	#K15 : GAS SHUT OFF VALVE	120/60/1	1 AMP	J-BOX	CONNECT TO GAS SHUT OFF AND HOOD CONTROLS AS REQUIRED. INTERCONNECT WITH SHUNT TRIP BREAKERS FOR HOOD EQUIPMENT. PROVIDE WITH FOUR CONTACTS. NOTE #5.
E-19	EMERGENCY SWITCH	+54"	#K15 : EXHAUST HOOD: KILL SWITCH	–	–	–	INCLUDED WITH FIRE PROTECTION SYSTEM PROVIDE BY K.E.C.
E-20	JUNCTION BOX	DFA	#K14 : EXHAUST HOOD: HEAT SENSOR	120/60/1	15 AMP	J-BOX	INTERCONNECT TO TERMINAL BLOCK PROVIDED IN HOOD. NOTE #4 & #5.
E-21	NOT USED						
E-22	OUTLET	+30"	#K16 : RANGE CONVECTION OVEN	120/60/1	9 AMP	C&P	INCLUDES ELECTRONIC IGNITION.
E-23	OUTLET	+18"	#K17 : REFRIGERATED GRILL STAND	115/60/1	8 AMP	C&P	–
E-24	OUTLET	+30"	#K19 : FLAT TOP GRIDDLE	120/60/1	1 AMP	C&P	FOR ELECTRONIC IGNITION.
E-25	OUTLET	+76"	#K21 : SALAMANDER BROILER	120/60/1	1 AMP	C&P	FOR ELECTRONIC IGNITION.
E-26	OUTLET	+30"	#K22 : OPEN FACE GRIDDLE	120/60/1	1 AMP	C&P	FOR ELECTRONIC IGNITION.
E-27	CONVENIENCE OUTLET	+48"	#K23 : WORK COUNTER	120/60/1	180 WATT	C&P	–
E-28	OUTLET	+66"	#K24 : MICROWAVE OVEN	208/60/1	1,800 WATT	C&P	–
E-29	NOT USED						
E-30	OUTLET	+18"	#K32 : REFRIGERATED COUNTER	120/60/1	9 AMP	C&P	–
E-31	JUNCTION BOX	+18"	#K34 : HOT FOOD WARMER	208/60/1	10.6 AMP	J-BOX	INTERCONNECT CONTROLS.
E-32	CONVENIENCE OUTLET	+42"	#K33 : WORK COUNTER	120/60/1	180 WATT	C&P	MOUNT OUTLET IN COUNTER BACK SPLASH.
E-33	OUTLET	+42"	#K35 : PANINI GRILL	208/60/1	16 AMP	C&P	MOUNT OUTLET IN COUNTER BACK SPLASH.
E-34	OUTLET	+66"	#E2 : POS PRINTER	120/60/1	VERIFY	C&P	NOTE #1. MOUNT OUTLET IN COUNTER BACK SPLASH.
E-35	DATA OUTLET	+66"	#E2 : POS PRINTER	–	–	–	NOTE #2.
E-36	OUTLET	+12"	#K44 : REFRIGERATED BASE	115/60/1	4 AMP	C&P	–
E-37	OUTLET	+42"	#K45 : ESPRESSO MACHINE	110-230/60/1	0.5/6.7 kW	C&P	MOUNT OUTLET IN COUNTER BACK SPLASH.
E-38	JUNCTION BOX	+18"	#K46 : SOUP WARMER	208/60/1	13.4 AMP	J-BOX	INTERCONNECT CONTROLS. PROVIDE FOR TWO EACH CONNECTIONS.
E-39	CONVENIENCE OUTLET	+42"	#K41 : WORK COUNTER	120/60/1	180 WATT	C&P	MOUNT OUTLET IN COUNTER BACK SPLASH.
E-40	CONVENIENCE OUTLET	+42"	#K41 : WORK COUNTER	120/60/1	180 WATT	C&P	MOUNT OUTLET IN COUNTER BACK SPLASH.
E-41	OUTLET	+42"	#E2 : POS PRINTER	120/60/1	VERIFY	C&P	NOTE #1. MOUNT OUTLET IN COUNTER BACK SPLASH.
E-42	DATA OUTLET	+66"	#E2 : POS PRINTER	–	–	–	NOTE #2. MOUNT OUTLET IN COUNTER BACK SPLASH.
E-43	OUTLET	+18"	#K51 : MERCHANDISING REFRIGERATOR	115/60/1	7.3 AMP	C&P	–
E-44	JUNCTION BOX	STUB	#K52 : REFRIGERATED DISPLAY CABINET	220/60/1	17.28 AMP	J-BOX	NOTE #3 TO +12" A.F.F.
E-45	OUTLET	STUB	#E1 : POS REGISTER	120/60/1	VERIFY	C&P	NOTE #1 & #3 TO +28" A.F.F.
E-46	DATA OUTLET	STUB	#E1 : POS REGISTER	–	–	–	NOTE #2 & #3 TO +28" A.F.F.
E-47	CONVENIENCE OUTLET	STUB	#WK1 : SERVICE COUNTER	120/60/1	180 WATT	C&P	NOTE #3 TO +12" A.F.F.
E-48	JUNCTION BOX	+28"	#K55 : ICE MAKER	208/60/1	11.9 AMP	J-BOX	RUN FEED UP BACK OF UNIT.
E-49	OUTLET	+28"	#K54 : SODA AND ICE DISPENSER	120/60/1	3.2 AMP	C&P	VERIFY WITH VENDER. RUN CORD TO OUTLET MOUNTED IN CABINET BASE THROUGH COUNTER TOP.
E-50	OUTLET	+18"	#K54A : SODA SYSTEM RACK	120/60/1	10 AMP	C&P	VERIFY WITH VENDER
E-51	OUTLET	+28"	#K56 : COFFEE BREWER	120-208/60/1	36 AMP	C&P	VERIFY WITH VENDER. RUN CORD TO OUTLET MOUNTED IN CABINET BASE THROUGH COUNTER TOP.
E-52	OUTLET	+28"	#K57 : ICE TEA DISPENSER	120/60/1	14 AMP	C&P	VERIFY WITH VENDER. RUN CORD TO OUTLET MOUNTED IN CABINET BASE THROUGH COUNTER TOP.
E-53	CONVENIENCE OUTLET	+48"	#WK2 : SERVICE COUNTER	120/60/1	180 WATT	C&P	
E-54	CONVENIENCE OUTLET	+48"	#WK2 : SERVICE COUNTER	120/60/1	180 WATT	C&P	

NOTE #1: VERIFY THE REQUIREMENTS OF THE POS SYTEM WITH THE SUPPLIER INCLUDING ELECTRICAL REQUIREMENTS AND THE INTERCONNECTION REQUIREMENTS.

NOTE #2: PROVIDE DATA CONDUIT AS REQUIRED BY POS SUPPLIER. VERIFY INTERCONNECTION REQUIREMENTS BETWEEN COMPONENTS OF SYSTEM.

NOTE #3: RUN FROM ROUGH-IN AND MOUNT OUTLET/JUNCTION BOX IN BASE OF COUNTER/CABINET AT HEIGHT NOTED.

NOTE #4: ELECTRICIAN TO FIELD WIRE LOW VOLTAGE FROM EACH TEMPERATURE CONTROLLER TO HEAT SENSOR PROVIDED WITH HOOD AT EACH EXHAUST RISER. ELECTRICIAN TO INTERLOCK CONTACTORS OR STARTERS SPECIFIED BY MECHANICAL SYSTEM TO THE CONTACTS AT THE TERMINAL BLOCK TO OPERATE FAN.

NOTE #5: SEE HOOD WIRING SCHEMATIC FOR HOOD CONTROL REQUIREMENTS AND INTERCONNECTIONS.

DFA: DROP FROM ABOVE
J-BOX: JUNCTION BOX CONNECTION
C&P: CORD AND PLUG
AMP: AMPERES
HP: HORSE POWER

ELECTRICAL NOTES

1. ELECTRICAL PLAN SHOWS ROUGH-IN POINTS AND SCHEDULED CONNECTIONS. KITCHEN EQUIPMENT CONTRACTOR WILL PROVIDE DIMENSIONED ROUGH-IN DRAWINGS FOR CONSTRUCTION.
2. ELECTRICAL SYSTEM IS DESIGNED FOR 120/208 VOLTS, 3 PHASE, 60 HERTZ, 4 WIRE SYSTEM.
3. ELECTRICAL DIVISION SHALL FURNISH AND INSTALL ALL JUNCTION BOXES, RECEPTACLES, COVER PLATES, PULL BOXES, CONDUIT AND WIRING EXCEPT WHERE NOTED. RECEPTACLES AND COVER PLATES SHALL BE BRUSHED STAINLESS STEEL FURNISHED BY ELECTRICAL DIVISION.
4. ALL CONDUIT RUNS INDICATED FOR REFRIGERATION, DRINK AND LIQUOR SYSTEM LINES SHALL BE FURNISHED AND INSTALLED BY THE ELECTRICAL DIVISION. CONDUIT SHALL HAVE 24" (600MM) MINIMUM RADIUS BENDS.
5. KITCHEN EQUIPMENT CONTRACTOR SHALL FURNISH AND INSTALL VAPOR PROOF VENTILATOR LIGHTS COMPLETE WITH LAMPS, INTERCONNECTING CONDUIT, WIRING WITH WALL SWITCH FURNISHED AND INSTALLED BY THE ELECTRICAL DIVISION.
6. ADDITIONAL CONVENIENCE RECEPTACLES, TELEPHONE AND INTERCOM JACKS AND TEMPERATURE MONITORING SYSTEM ETC., SHALL BE LOCATED BY THE ELECTRICAL ENGINEER/ ARCHITECT AND AS REQUIRED BY CODE.
7. KITCHEN EQUIPMENT CONTRACTOR SHALL FURNISH DISPOSER CONTROLS, ELECTRICAL DIVISION SHALL FURNISH AND INSTALL INTER-CONNECTING CONDUIT AND WIRE BETWEEN SWITCH, DISPOSER AND COMPONENTS.
8. ELECTRICAL DIVISION SHALL FURNISH AND INSTALL ALL INTERCONNECTING CONDUIT AND WIRING BETWEEN MICRO-SWITCH AND SOLENOID FUEL SHUT OFF VALVE FURNISHED WITH FIRE SUPPRESSION SYSTEM SUPPLIED BY THE KITCHEN EQUIPMENT CONTRACTOR.
9. PRE-FABRICATED COLD STORAGE ROOMS ARE FURNISHED BY THE KITCHEN EQUIPMENT CONTRACTOR COMPLETE WITH SPLICE BOXES, LIGHT FIXTURES, LAMPS, LIGHT SWITCHES AND DOOR HEATERS. ELECTRICAL DIVISION TO INSTALL SAME AND SHALL FURNISH AND INSTALL INTERCONNECTING CONDUIT, WIRING SEALOFFS, SEALANT AND MAKE FINAL CONNECTIONS.
10. ELECTRICAL DIVISION SHALL FURNISH AND INSTALL ALL INTERCONNECTING CONDUIT AND WIRING BETWEEN KITCHEN EQUIPMENT CONTRACTOR FURNISHED LOW TEMP COLD STORAGE ROOM EVAPORATOR TERMINAL BLOCK, SWITCH, FAN DOOR SWITCH AND COMPRESSOR CONTROL PANEL.
11. ELECTRICAL DIVISION SHALL FURNISH AND INSTALL EMPTY CONDUIT WITH JUNCTION BOXES FOR INSTALLATION OF OWNER SUPPLIED I.T. EQUIPMENT INCLUDING POS/ ELECTRONIC CASH CONTROL SYSTEM. ELECTRICAL DIVISION TO VERIFY INSTALLATION IN ACCORDANCE WITH OWNER'S REQUIREMENTS AND MANUFACTURER'S INSTRUCTIONS.
12. ELECTRICAL DIVISION SHALL FURNISH AND INSTALL DISCONNECTS FOR ALL ELECTRICAL EQUIPMENT UNDER HOOD ACTIVATED BY FIRE SUPPRESSION SYSTEM.

ELECTRICAL LEGEND

- ELECTRICAL OUTLET
- JUNCTION BOX
- CONVENIENCE DUPLEX RECEPTACLE
- FLEX CONNECTION (CONTINUOUS WIRE FROM ROUGH-IN TO JUNCTION/OUTLET LOCATION)
- DATA CONDUIT
- SWITCH
- CONTROLS
- STUB FROM FLOOR
- DROP FROM ABOVE
- DROP CORD FROM CEILING TO +72" A.F.F.
- FLOOR MOUNTED
- PHONE

NOTE: ELECTRICAL MOUNTING

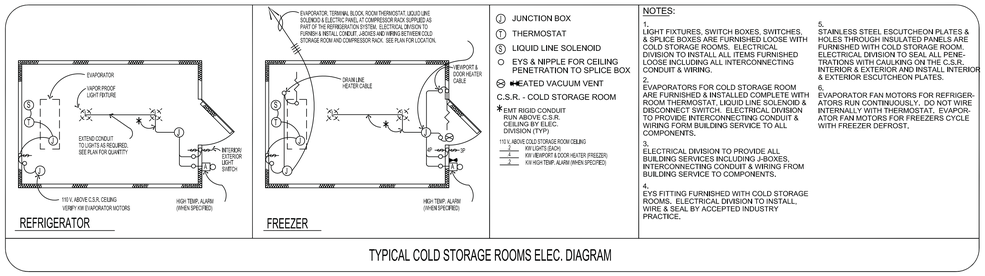
ALL WALL MOUNT ELECTRICAL RECEPTACLE AND J-BOXES ARE TO BE FLUSH MOUNTED IN WALLS WITH NO EXPOSED CONDUIT SHOWING ON SURFACE OF WALLS. ARCHITECT TO PROVIDE MINIMUM WALL FURRING IF REQUIRED.

NOTE: POS ELECTRICAL

120V, 1 PHASE, SERVICE, 10.0 AMPS, STUB AS NOTED, FOR POS/PRE-CHECK SYSTEM STATIONS. (DEDICATED CIRCUIT, ISOLATED GROUND. PROVIDE (ADD PHONE LINE) EMPTY J-BOX WITH CONDUIT FOR INTERCONNECTING POS SYSTEM, PRE-CHECK AND PRINTERS) (VERIFY ALL REQUIRMENTS WITH POS SYSTEM SUPPLIER.)

NOTE: WALK-IN ELECTRICAL

ALL CONDUIT SHALL BE RUN ON THE EXTERIOR CEILING OF ALL COLD STORAGE ROOMS AND SHALL PENETRATE THE CEILING AT A POINT WHERE THE CONDUIT CAN DROP DIRECTLY TO THE POINT OF CONNECTION. UNDER NO CIRCUMSTANCES, WILL ELECTRICAL CONDUIT BE PERMITTED ON THE INTERIOR.



JUNCTION BOX
THERMOSTAT
LIQUID LINE SOLENOID
EYS & NIPPLE FOR CEILING PENETRATION TO SPLICE BOX
HEATED VACUUM VENT

C.S.R. - COLD STORAGE ROOM

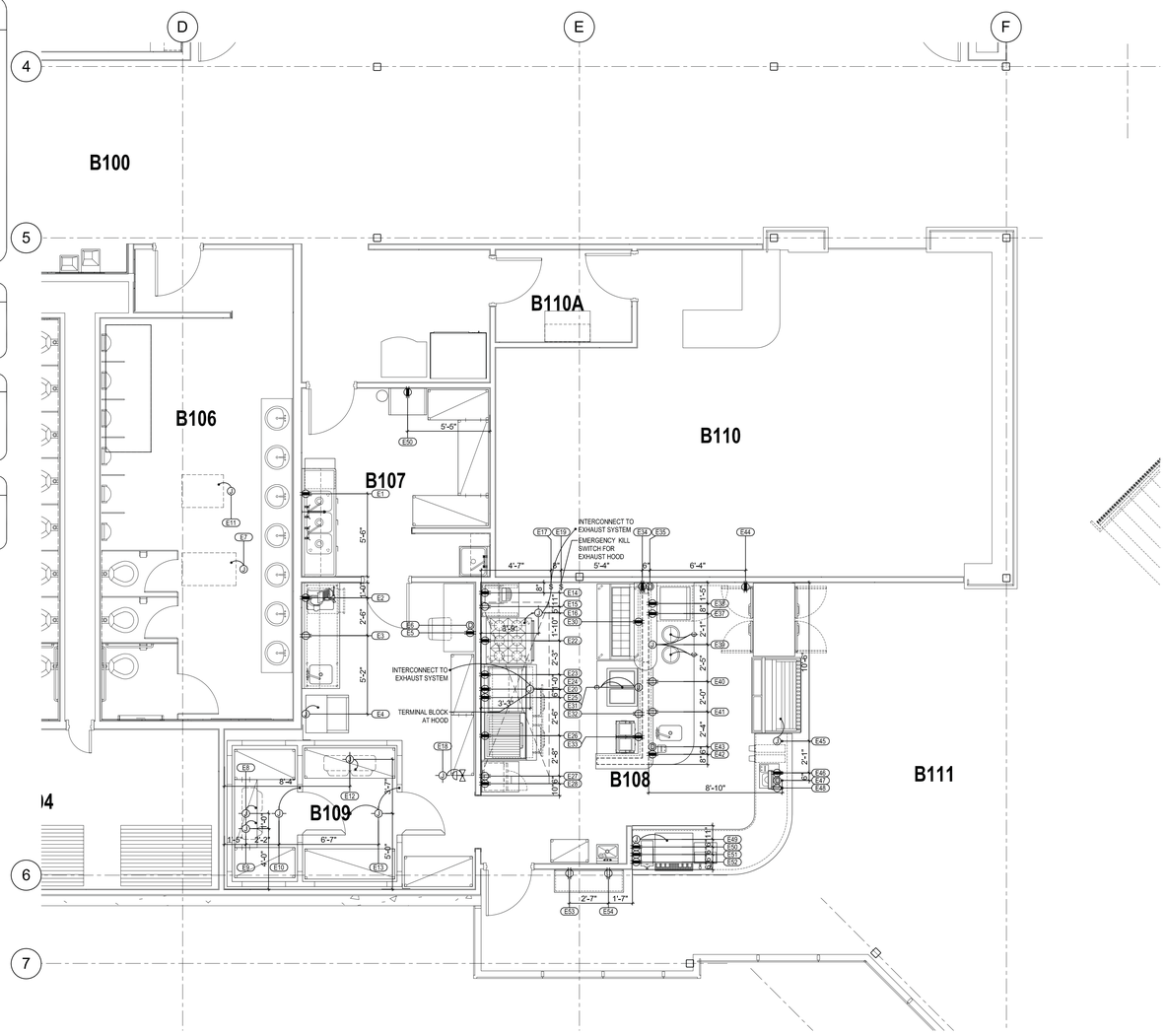
EMT RIGID CONDUIT RUN ABOVE C.S.R. CEILING BY ELEC. DIVISION (TYP)

115 V, ABOVE COLD STORAGE ROOM CEILING
KW LIGHTS (EACH)
KW VEAPORTOR & DOOR HEATER (FREEZER)
KW HIGH TEMP. ALARM (WHEN SPECIFIED)

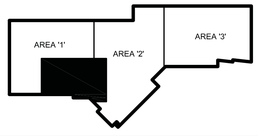
NOTES:

1. LIGHT FIXTURES, SWITCH BOXES, SWITCHES, & SPLICE BOXES ARE FURNISHED LOOSE WITH COLD STORAGE ROOMS. ELECTRICAL DIVISION TO INSTALL ALL ITEMS FURNISHED LOOSE INCLUDING ALL INTERCONNECTING CONDUIT & WIRING.
2. EVAPORATORS FOR COLD STORAGE ROOM ARE FURNISHED & INSTALLED COMPLETE WITH ROOM THERMOSTAT, LIQUID LINE SOLENOID & DISCONNECT SWITCH. ELECTRICAL DIVISION TO PROVIDE INTERCONNECTING CONDUIT & WIRING FROM BUILDING SERVICE TO ALL COMPONENTS.
3. ELECTRICAL DIVISION TO PROVIDE ALL BUILDING SERVICES INCLUDING J-BOXES, INTERCONNECTING CONDUIT & WIRING FROM BUILDING SERVICE TO COMPONENTS.
4. EYS FITTING FURNISHED WITH COLD STORAGE ROOMS. ELECTRICAL DIVISION TO INSTALL WIRE & SEAL BY ACCEPTED INDUSTRY PRACTICE.
5. STAINLESS STEEL ESCUTCHEON PLATES & HOLES THROUGH INSULATED PANELS ARE FURNISHED WITH COLD STORAGE ROOM. ELECTRICAL DIVISION TO SEAL ALL PENETRATIONS WITH CAULKING ON THE C.S.R. INTERIOR & EXTERIOR AND INSTALL INTERIOR & EXTERIOR ESCUTCHEON PLATES.
6. EVAPORATOR FAN MOTORS FOR REFRIGERATORS RUN CONTINUOUSLY. DO NOT WIRE INTERNALLY WITH THERMOSTAT. EVAPORATOR FAN MOTORS FOR FREEZERS CYCLE WITH FREEZER DEFROST.

TYPICAL COLD STORAGE ROOMS ELEC. DIAGRAM



1 LEVEL 1 FOOD SERVICE EQUIPMENT ELECTRICAL REQUIREMENT PLAN
1/4" = 1'-0"



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TOOELE APPLIED TECHNOLOGY COLLEGE NEW BUILDING

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revisions :

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sheet:

FS104

100% CONSTRUCTION DOCUMENTS