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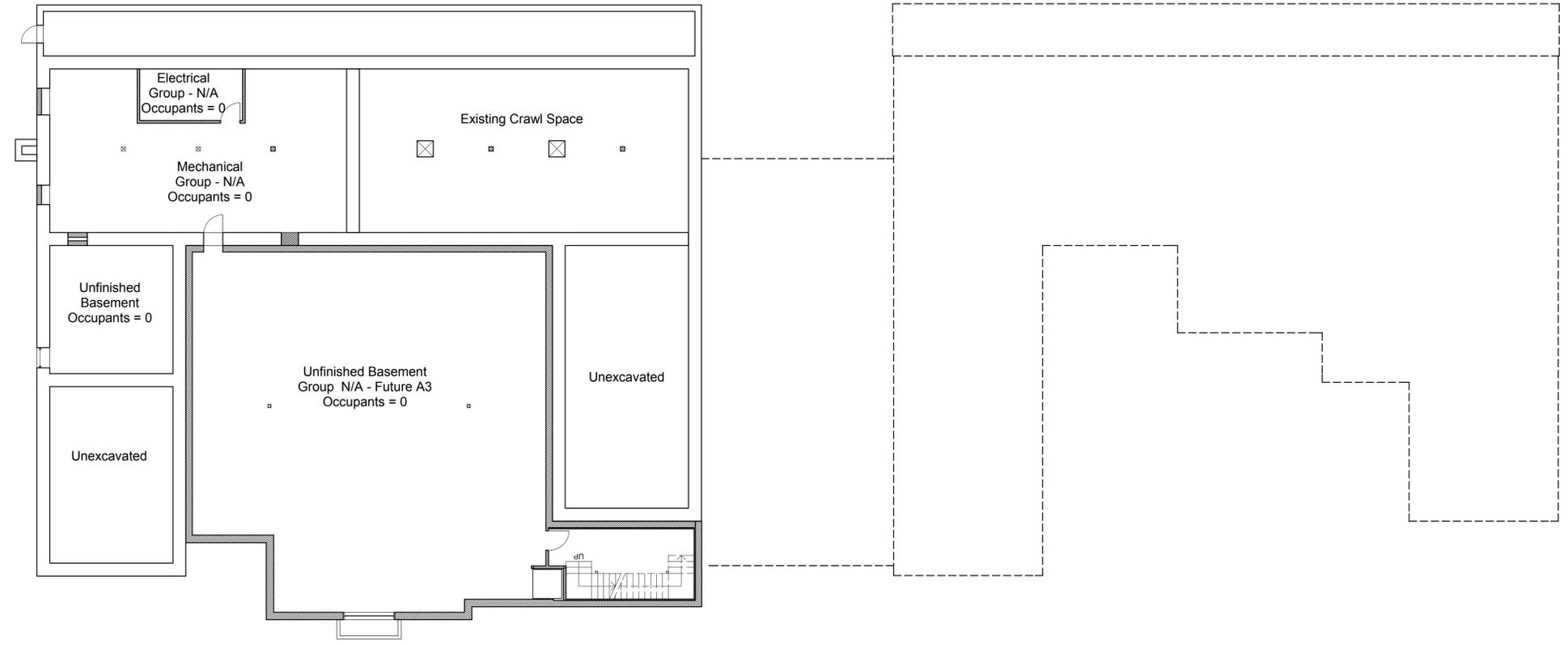
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CD	4/18/05	CD REVIEW SUBMISSION
DD	12/01/05	DD REVIEW SUBMISSION
PROJECT NO:	B05-027	
CAD DWG FILE:	FDMM - 04.12.06.ltk	
DRAWN BY:	DR	
CHECKED BY:	AAH	



**LOWER LEVEL
OCCUPANCY PLAN**

G1002



(A1) LOWER LEVEL OCCUPANCY PLAN
3/32" = 1'-0"

P:\B05-027 FT. Douglas Military Museum AE\Drawn\Arch\G1002-04-12-06\FDMM - 04.12.06.ltk
5/14/2006

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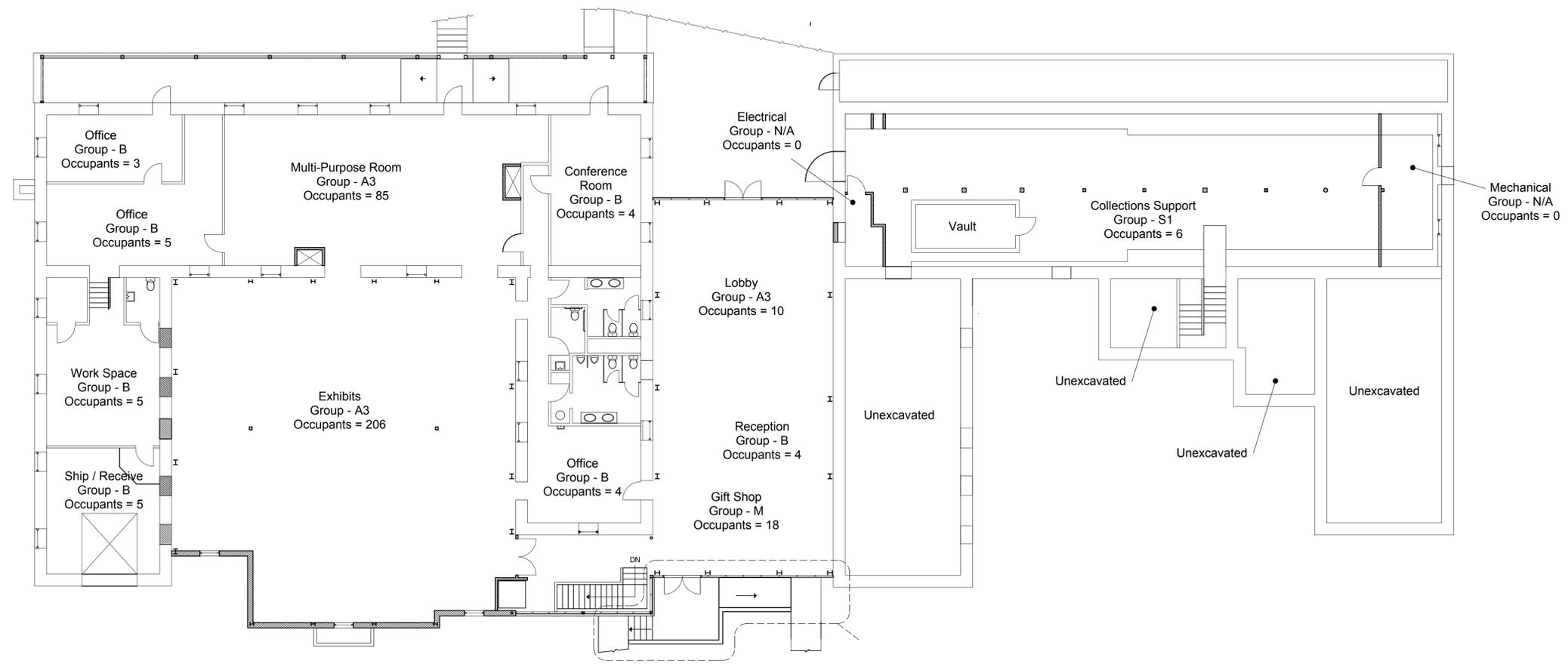
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MAIN LEVEL
OCCUPANCY PLAN

G1003



A1 MAIN LEVEL OCCUPANCY PLAN
3/32" = 1'-0"

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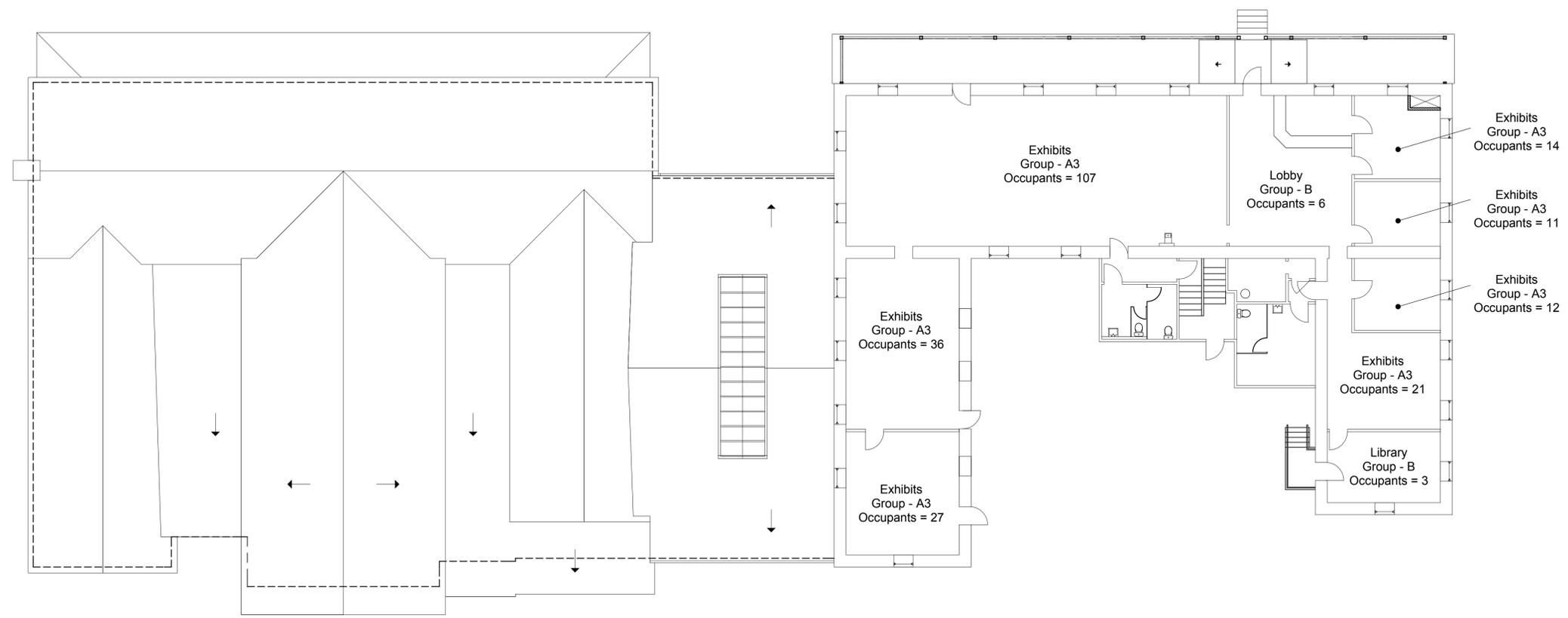
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**UPPER LEVEL
OCCUPANCY PLAN**

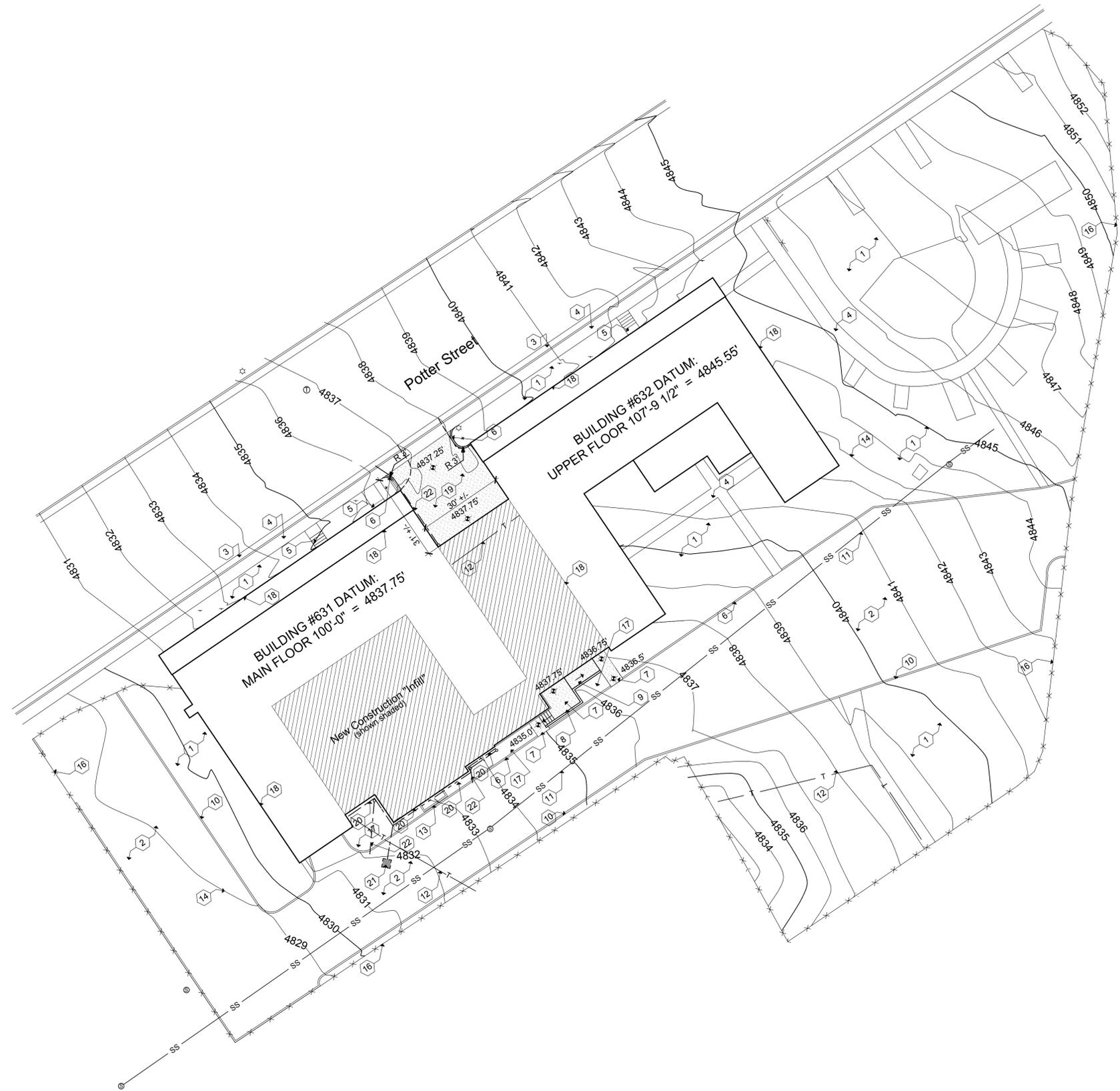
G1004



A1 UPPER LEVEL OCCUPANCY PLAN
3/32" = 1'-0"

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5/14/2006 P:\B05-021 Ft. Douglas Military Museum AE\Drawn\Arch\04-12-06\FDMM - 04.12.06.tsk



REFERENCE NOTES

- 1 EXISTING SITEWORK TO REMAIN AS IS.
- 2 EXISTING DRIVE TO REMAIN AS IS.
- 3 EXISTING CURB & GUTTER.
- 4 EXISTING CONCRETE WALK.
- 5 EXISTING CONCRETE STAIRS
- 6 NEW CONCRETE CURB
- 7 NEW CONCRETE LANDING
- 8 NEW CONCRETE RETAINING WALL
- 9 NEW CONCRETE RAMP
- 10 EXISTING CURB
- 11 EXISTING SEWER LINE
- 12 EXISTING TELEPHONE SERVICE
- 13 PRECAST CONCRETE WINDOW WELL.
- 14 EXISTING GRADE (SOLID LINE) - TYPICAL
- 15 MODIFIED GRADE (DASHED LINE) - TYPICAL
- 16 EXISTING FENCELINE
- 17 NEW PLANTING BED
- 18 EXISTING BUILDING OUTLINE
- 19 NEW CONCRETE WALK, PROVIDE EXPANSION/CONTROL JOINTS PER PROJECT MANUAL
- 20 NEW FOOTING DRAIN - PERF. PIPE WRAPPED IN FILTER FABRIC IN GRAVEL FILL
- 21 TERMINATE FOOTING DRAIN IN 3'X3'X3' GRAVEL SUMP - ENCLOSE ENTIRE SUMP IN FILTER FABRIC. LOCATE SUMP MIN. 10 FEET AWAY FROM BUILDING - SLOPE LINE TO ENSURE DRAINAGE.
- 22 UNDERGROUND PIPING FROM DOWNSPOUTS - DAYLIGHT TO CURB OR DRIVEWAY AS SHOWN.

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PROJECT NO: B05-027
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DRAWN BY: DR
CHECKED BY: AAH

A1 SITE PLAN
1" = 20'-0"

SITE PLAN

AS101

STRUCTURAL NOTES

STRUCTURAL DESIGN LOADS

FLOOR(S):	DL = 18 PSF
DEAD LOAD:	LL = 100 PSF
LIVE LOAD(S):	
ROOF:	
DEAD LOAD:	DL = 16 PSF
EXISTING NEW:	DL = 20 PSF
GROUND SNOW LOAD:	PL = 50 PSF
FLAT ROOF SNOW LOAD:	PF = 35 PSF
SNOW EXPOSURE FACTOR:	Ce = 1.0
SNOW IMPORTANCE FACTOR:	I = 1.0
THERMAL FACTOR:	Ct = 1.0
WIND LOAD:	
BASIC WIND SPEED:	V = 90 MPH (3 SEC GUST)
IMPORTANCE FACTOR:	I = 1.0
WIND EXPOSURE:	"C"
COMPONENT AND CLADDING PRESSURE:	P = 20 PSF
SEISMIC:	
USE GROUP:	S
SPECTRAL RESPONSE COEF:	SDS = 1.18, SD1 = 0.79
SITE CLASS:	D
BASIC SEISMIC-FORCE-RESISTING SYSTEM:	
NEW SPECIAL STEEL MOMENT FRAMES:	R=8, OMEGA=3, Cd=5.5, Cs=0.125

SOILS:
NET ALLOWABLE SOIL PRESSURE = 2000 PSF, PER REPORT.

GENERAL

- ALL DESIGN, CONSTRUCTION, AND INSPECTION SHALL BE IN CONFORMANCE WITH THE 2003 INTERNATIONAL BUILDING CODE.
- THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CONDITIONS AT THE SITE.
- ALL OMISSIONS OR CONFLICTS BETWEEN THE VARIOUS ELEMENTS OF THE WORKING DRAWINGS AND/OR SPECIFICATIONS SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT AND/OR STRUCTURAL ENGINEER BEFORE PROCEEDING WITH ANY WORK INVOLVED.
- DRAWINGS INDICATE THE FINISHED PRODUCT. THEY DO NOT INDICATE A METHOD OF CONSTRUCTION. CONTRACTOR SHALL TAKE ALL PRECAUTIONS NECESSARY TO PROTECT THE STRUCTURE DURING CONSTRUCTION. SUCH PRECAUTIONS SHALL INCLUDE, BUT NOT BE LIMITED TO, BRACING, SHORING FOR CONSTRUCTION EQUIPMENT, ETC.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR COMPENSATING THE OWNER FOR ANY CHANGES MADE AS A RESULT OF A DEVIATION FROM THE CONTRACT DOCUMENTS, DEVIATION FROM THE SPECIFICATIONS, FAULTY MATERIALS, OR FAULTY WORKMANSHIP.
- OPTIONS ARE FOR THE CONTRACTORS CONVENIENCE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING ALL REQUIRED DESIGN CHANGES. COST ASSOCIATED WITH ANY DESIGN WORK INITIATED BY THE OPTION SHALL BE BORN BY THE CONTRACTOR.
- CONTRACTOR SHALL BE RESPONSIBLE FOR SAFETY AND PROTECTION WITHIN AND ADJACENT TO THE JOB SITE.
- TEMPORARY SHORING AND BRACING SHALL BE PROVIDED WHEREVER NECESSARY TO TAKE CARE OF ALL LOADS TO WHICH THE STRUCTURE MAY BE SUBJECTED INCLUDING WIND. SUCH BRACING SHALL BE LEFT IN PLACE AS LONG AS MAY BE REQUIRED FOR SAFETY OR UNTIL ALL THE STRUCTURAL ELEMENTS ARE COMPLETE.
- DURING AND AFTER CONSTRUCTION THE CONTRACTOR AND/OR OWNER SHALL KEEP LOADS ON THE STRUCTURE WITHIN THE LIMITS OF THE DESIGN LOADS.
- THE GENERAL CONTRACTOR SHALL HAVE SHOP DRAWINGS REVIEWED BY THE ARCHITECT PRIOR TO THE FABRICATION OR ERECTION FOR THE FOLLOWING ITEMS: REINFORCING STEEL, STRUCTURAL STEEL, MISCELLANEOUS METALS, PREFABRICATED WOOD JOISTS, PREFABRICATED STEEL JOISTS, PREFABRICATED WOOD TRUSSES AND GLU-LAM BEAMS.
- ALL DETAILS, SECTIONS, AND NOTES ARE INTENDED TO BE TYPICAL AND SHALL APPLY TO SIMILAR SITUATIONS UNLESS NOTED OR SHOWN OTHERWISE.
- REFER TO THE SPECIFICATIONS FOR ADDITIONAL INFORMATION NOT COVERED ON THE DRAWINGS.
- OBSERVATION VISITS TO THE JOB SITE BY FIELD REPRESENTATIVES OF CALDER RICHARDS CONSULTING ENGINEERS SHALL NEITHER BE CONSTRUED AS INSPECTION NOR APPROVAL OF CONSTRUCTION.
- SIZES, LOCATIONS, AND ANCHORAGES OF EQUIPMENT SHALL BE VERIFIED IN THE FIELD WITH EQUIPMENT MANUFACTURERS (SUPPLIERS) PRIOR TO PLACING CONCRETE OR FABRICATING STEEL.

QUALITY ASSURANCE PLAN

- SPECIAL INSPECTION SHALL BE PROVIDED BY THE OWNER ACCORDING TO IBC CHAPTER 17 FOR THE ITEMS IDENTIFIED IN THIS SECTION AND ON THE CONTRACT DOCUMENTS.
- THE NAMES AND CREDENTIALS OF SPECIAL INSPECTORS TO BE USED SHALL BE SUBMITTED TO THE BUILDING DEPARTMENT WHEN APPLYING FOR A BUILDING PERMIT.
- SPECIAL INSPECTION REPORTS SHALL BE DELIVERED TO THE ENGINEER OF RECORD, ARCHITECT, AND OWNER (AS REQUESTED) BI-WEEKLY OR MORE FREQUENTLY AS REQUIRED BY THE INSPECTOR OR BUILDING OFFICIAL.
- OFF-SITE FABRICATION: WHERE FABRICATION OF STRUCTURAL LOAD-BEARING MEMBERS AND ASSEMBLIES IS BEING PERFORMED ON THE PREMISES OF A FABRICATORS SHOP, SPECIAL INSPECTION OF THE FABRICATED ITEMS SHALL BE IN ACCORDANCE WITH IBC SECTION 1704.2 UNLESS THE FABRICATOR IS APPROVED ACCORDING TO IBC SECTION 1704.2.2.
- STEEL CONSTRUCTION: SPECIAL INSPECTIONS FOR STEEL ELEMENTS SHALL BE PROVIDED IN ACCORDANCE WITH SECTIONS 1704.3 AND TABLE 1704.3.

QUALITY ASSURANCE PLAN, CONT

- WELDING: WELDING INSPECTION SHALL BE PROVIDED IN ACCORDANCE WITH TABLE 1704.3. ELEMENTS THAT ARE PART OF THE SEISMIC-FORCE-RESISTING SYSTEM SHALL ALSO BE INSPECTED ACCORDING TO SECTION 1707.2 AND 1708.4.
- HIGH-STRENGTH BOLTS: PERIODIC SPECIAL INSPECTION SHALL BE PROVIDED FOR INSTALLATION OF HIGH-STRENGTH BOLTS IN ACCORDANCE WITH AISC SPECIFICATIONS. SEE IBC SECTION 1704.3.3.
- CONCRETE CONSTRUCTION: SPECIAL INSPECTIONS AND VERIFICATIONS SHALL BE PROVIDED IN ACCORDANCE WITH TABLE 1704.4.
- SOILS: SPECIAL INSPECTION SHALL BE PROVIDED FOR PLACEMENT OF FILL 12 INCHES OR MORE DEEP IN ACCORDANCE WITH SECTION 1704.7.
- EPOXY ANCHORS: PRIOR TO AND DURING EPOXY INJECTION TO INSURE PROPER INSTALLATION AS PER MANUFACTURERS REQUIREMENTS. CONTRACTOR SHALL SUBMIT PROPOSED EPOXY MANUFACTURERS ICBO REPORT TO STRUCTURAL ENGINEER PRIOR TO INSTALLATION.

QUALITY ASSURANCE - CONTRACTOR RESPONSIBILITY

- EACH CONTRACTOR RESPONSIBLE FOR THE CONSTRUCTION OF A SEISMIC-FORCE-RESISTING SYSTEM, DESIGNATED SEISMIC SYSTEM, OR COMPONENT LISTED IN THE QUALITY ASSURANCE PLAN SHALL SUBMIT A WRITTEN CONTRACTOR'S STATEMENT OF RESPONSIBILITY TO THE BUILDING OFFICIAL AND TO THE OWNER PRIOR TO THE COMMENCEMENT OF WORK ON THE SYSTEM OR COMPONENT. THE CONTRACTOR'S STATEMENT OF RESPONSIBILITY SHALL CONTAIN THE FOLLOWING:
 - ACKNOWLEDGMENT OF AWARENESS OF THE SPECIAL REQUIREMENTS CONTAINED IN THE QUALITY ASSURANCE PLAN.
 - ACKNOWLEDGMENT THAT CONTROL WILL BE EXERCISED TO OBTAIN CONFORMANCE WITH THE CONSTRUCTION DOCUMENTS APPROVED BY THE BUILDING OFFICIAL.
 - PROCEDURES FOR EXERCISING CONTROL WITHIN THE CONTRACTOR'S ORGANIZATION, THE METHOD AND FREQUENCY OF REPORTING, AND THE DISTRIBUTION OF REPORTS.
 - IDENTIFICATION AND QUALIFICATIONS OF THE PERSON(S) EXERCISING SUCH CONTROL AND THE POSITION(S) IN THE ORGANIZATION.

CONCRETE

- CONCRETE SHALL ATTAIN THE FOLLOWING MINIMUM COMPRESSIVE STRENGTHS AT 28 DAYS:

FOOTINGS & FOUNDATION WALLS	3000 PSI
INTERIOR SLABS ON GRADE	4000 PSI
EXTERIOR FLAT WORK	4000 PSI
- A STATEMENT OF MIX DESIGN FOR ALL CONCRETE SHALL BE SUBMITTED TO AND REVIEWED BY THE STRUCTURAL ENGINEER PRIOR TO COMMENCING WORK.
- ALL CONCRETE WORK SHALL BE PLACED, CURED, STRIPPED, AND PROTECTED AS DIRECTED BY THE SPECIFICATIONS AND ACI STANDARDS AND PRACTICES.
- UNLESS NOTED OTHERWISE ON THE DRAWINGS, REINFORCE CONCRETE WALLS AS FOLLOWS:

WIDTH	HORIZ REINF	VERT REINF
6" WALL	#4 @ 16"	#4 @ 16" CENTER OF WALL
8" WALL	#4 @ 12"	#4 @ 12" CENTER OF WALL
10" WALL	#5 @ 12"	#5 @ 12" CENTER OF WALL
12" WALL	#5 @ 12"	#5 @ 12"
- DOWEL VERTICAL WITH A CLASS B LAP SPLICE INTO STRUCTURE ABOVE AND FOOTINGS BELOW. PROVIDE 90 DEGREE HOOK WHERE LAP SPLICE IS NOT POSSIBLE. IN ADDITION, PROVIDE (2) CONTINUOUS BARS TOP AND BOTTOM OF WALL.
- BEFORE CONCRETE IS POURED CHECK WITH ALL TRADES TO ENSURE PROPER PLACEMENT OF ALL OPENINGS, SLEEVES

FOOTINGS

- ALL FOOTINGS SHALL BEAR 12" MINIMUM INTO ORIGINAL UNDISTURBED EARTH OR ON ENGINEERED FILL COMPACTED TO 95% OF MAXIMUM RELATIVE DENSITY BASED ON ASTM D1557-91. SUCH FILL SHALL BE PLACED IN LAYERS NOT TO EXCEED 6" IN DEPTH AFTER COMPACTION AND SHALL EXTEND DOWN TO IN-SITU GRANULAR SOILS.
- FOOTING ELEVATIONS SHOWN ON PLAN ARE TOP OF FOOTINGS AND ARE MINIMUM DEPTH. DIFFERENT OR UNUSUAL CONDITIONS SHALL BE REPORTED TO THE ARCHITECT AND/OR ENGINEER.
- EXTERIOR WALL FOOTINGS SHALL BEAR AT A MINIMUM DEPTH OF 2'-6" BELOW FINISHED EXTERIOR GRADE.
- NO FOOTINGS SHALL BE PLACED IN WATER OR ON FROZEN GROUND.
- ANY SOIL CONDITION ENCOUNTERED DURING EXCAVATION THAT IS CONTRARY TO THE CONDITIONS USED FOR DESIGN OF FOOTINGS AS OUTLINED IN THE SOILS REPORT BY AGEC (DATED MARCH 23, 2006, PROJECT NO 1060040), OR ON THE DRAWINGS SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT BEFORE PROCEEDING.
- DO NOT BACK FILL BEHIND FOUNDATION WALLS UNTIL TOP AND BOTTOM SLABS HAVE BEEN POURED AND ATTAINED THEIR DESIGN STRENGTHS.
- BACK FILL BOTH SIDES OF FOUNDATION WALLS AT SAME TIME TO PREVENT OVERTURNING.
- WHERE 6" DIAMETER OR LARGER PIPE PASSES THROUGH AN INTERIOR OR EXTERIOR FOUNDATION WALL, STEP THE FOOTING DOWN TO PASS BELOW PIPE AND THEN STEP BACK UP TO INDICATED ELEVATION. PROVIDE PIPE SLEEVE THROUGH FOUNDATION WALL.
- ALL FOOTING EXCAVATIONS SHALL BE EXAMINED BY A GEOTECHNICAL ENGINEER FOR VERIFICATION OF ADEQUATE BEARING CONDITIONS BEFORE PLACING CONCRETE.

REINFORCING STEEL

- ALL REINFORCEMENT SHALL BE DETAILED AND PLACED IN ACCORDANCE WITH ACI DETAILING MANUAL 315-92 AND ACI STANDARD 318-02.
- REINFORCING STEEL SHALL BE ASTM A615 GRADE 60.
- WELDED WIRE FABRIC SHALL CONFORM TO ASTM A185. LAP ONE MESH TIE.
- ALL REINFORCEMENT SHALL BE SECURELY TIED AND HELD IN PLACE.
- REINFORCING BARS THAT ARE TO BE WELDED, INCLUDING DEFORMED BAR ANCHORS (DBA) SHALL COMPLY WITH ASTM A706 OR ANOTHER WELDABLE GRADE AND SHALL BE WELDED IN ACCORDANCE WITH THE AWS RECOMMENDATIONS.
- ALL CONTINUOUS REINFORCEMENT SHALL TERMINATE WITH A 90 DEGREE TURN OR A SEPARATE CORNER BAR. ALL SPLICE SHALL HAVE A MINIMUM LAP OR EMBEDMENT PER REINFORCING SCHEDULE.
- WHERE THE LENGTH OF A BAR IS GIVEN AND IT IS TO BE HOOKED, THE HOOK SHALL BE IN ADDITION TO THE LENGTH GIVEN, UNLESS SHOWN OTHERWISE.
- COVER TO MAIN REINFORCEMENT FROM ADJACENT SURFACES SHALL BE AS FOLLOWS UNLESS SHOWN OTHERWISE:
 - UNFORMED SURFACES IN CONTACT WITH GROUND (EXPOSED TO THE WEATHER (BOTTOM OF FOOTINGS))..... 3"
 - SLABS ON GRADE..... 2"
 - FORMED SURFACES IN CONTACT WITH THE GROUND OR EXPOSED TO THE WEATHER (GRADE BMS, WALLS, ETC.) BEAMS AND COLUMNS..... 2"
 - STRUCTURAL SLABS AND JOISTS NOT EXPOSED TO WEATHER OR EARTH..... 1"
 - INTERIOR WALL SURFACES..... 1"
 - INTERIOR BEAMS AND COLUMNS..... 1-1/2"
 - IN ALL CASES COVER SHALL NOT BE LESS THAN THE DIAMETER OF ADJACENT BARS.
- PRIOR TO FABRICATION AND PLACEMENT, SHOP DRAWINGS FOR ALL REINFORCING STEEL SHALL BE REVIEWED BY THE STRUCTURAL ENGINEER.

STRUCTURAL STEEL

- ALL STRUCTURAL STEEL AND STRUCTURAL STEEL WORK SHALL COMPLY WITH BOTH THE AISC "MANUAL OF STEEL CONSTRUCTION" CONTAINING THE SPECIFICATIONS FOR THE DESIGN, FABRICATION AND ERECTION OF STRUCTURAL STEEL BUILDINGS, INCLUDING THE "CODE OF STANDARD PRACTICES" (LATEST EDITION), AND WITH THE IBC 2003 EDITION.
- ALL WIDE FLANGE STRUCTURAL STEEL SHALL BE ASTM A992 AND ALL MISCELLANEOUS SHAPES SHALL BE ASTM A36, UNO.
- STRUCTURAL STEEL TUBING SHALL CONFORM TO ASTM A500 GRADE B; YIELD STRESS = 46 KSI.
- STRUCTURAL STEEL PIPE COLUMNS SHALL CONFORM TO ASTM A501, GRADE B; YIELD STRESS = 35 KSI.
- USE A325 BOLTS FOR STEEL TO STEEL CONNECTIONS AND A307 BOLTS FOR ALL OTHER CONNECTIONS. USE 3/4" DIAMETER MINIMUM.
- PRIOR TO FABRICATION AND ERECTION, SHOP DRAWINGS FOR ALL STEEL ITEMS SHALL BE REVIEWED BY THE STRUCTURAL ENGINEER. THE CONTRACTOR SHALL VERIFY ALL SHOP DRAWING DIMENSIONS WITH STRUCTURAL AND ARCHITECTURAL PLANS AND DETAILS.
- ALL WELDS SHALL BE MADE WITH E70XX ELECTRODES AND BY WELDERS CERTIFIED BY AWS STANDARDS WITHIN THE PAST 12 MONTHS; PROVIDE WRITTEN CERTIFICATION IF REQUESTED.
- ALL HIGH-STRENGTH BOLTS SHALL BE TIGHTENED TO THE APPROPRIATE MINIMUM BOLT TENSION IN ACCORDANCE WITH "AISC SPECIFICATIONS FOR STRUCTURAL JOINTS USING ASTM A325 OR A490 BOLTS." THE PREFERRED METHOD OF TIGHTENING IS BY USE OF A "DIRECT TENSION INDICATOR." TURN-OF-NUT METHOD MAY ALSO BE USED. PROVIDE CARBONIZED WASHERS UNDER THE TURNED ELEMENT.
- CONNECTIONS INDICATED AS SLIP CRITICAL SHALL COMPLY WITH AISC SPECIFICATION FOR STRUCTURAL JOINTS USING ASTM A325 OR A490 BOLTS. BOLTS IN A SLIP CRITICAL CONNECTION SHALL BE PRE-TENSIONED TO AT LEAST THE MINIMUM TENSION IN THIS SPECIFICATION. CONTACT SURFACE OF BOLTED PARTS SHALL BE A MINIMUM OF CLASS A.
- ALL STEEL JOISTS, JOIST GIRDERS, AND ASSOCIATED WORK SHALL COMPLY WITH THE LATEST EDITION OF THE "STANDARD SPECIFICATIONS OF THE STEEL JOIST INSTITUTE". UNLESS SHOWN OTHERWISE, PROVIDE BRIDGING IN ACCORDANCE WITH THIS SPECIFICATION AS A MINIMUM. JOIST FABRICATOR SHALL BE A MEMBER OF THE STEEL JOIST INSTITUTE (SJI). JOISTS SHALL BE DESIGNED BY A PROFESSIONAL ENGINEER, REGISTERED IN THE STATE OF THE PROJECT AND HE SHALL SEAL AND SIGN ALL DESIGN CALCULATIONS AND JOISTS SHOP DRAWINGS. DESIGN SHALL COMPLY WITH ALL LOADING REQUIREMENTS INDICATED ON THE DRAWINGS AND NOTES. DESIGN CALCULATIONS AND SHOP DRAWINGS SHALL CLEARLY INDICATE ALL LOADINGS, DIMENSIONS, MEMBER FORCES, REACTIONS, MEMBER SIZES, WELD REQUIREMENTS AND JOINT DETAILS. JOISTS SHALL BE DESIGNED ASSUMING HORIZONTAL MOVEMENT IS ALLOWED AT ONE END, UNLESS NOTED OTHERWISE.
- ALL BRIDGING SHALL BE SECURELY ANCHORED AT END OF EACH RUN. WELD TO STEEL BEAM OR ANCHOR TO MASONRY WALL WITH 3/8" ANCHOR BOLTS.
- WHERE JOISTS CAN NOT BEAR 2-1/2" ON STEEL BEAMS, STAGGER LOCATION OF JOISTS TO PROVIDE 2-1/2" MINIMUM BEARING ON BEAM.
- CONCENTRATED LOADS SHALL NOT BE PLACED ON NOR HUNG FROM JOISTS UNLESS THEY ARE PLACED AT PANEL POINTS OR A BRACE (L1-1/2xL1-1/2x1/8) IS INSTALLED BETWEEN THE LOAD AND PANEL POINT. CONCENTRATED LOADS NOT SHOWN ON THE DRAWINGS SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT/ENGINEER FOR REVIEW.
- ALL MOMENT CONNECTIONS (SHOWN ON PLANS BY A SOLID TRIANGLE AT THE END OF THE BEAM) SHALL CONFORM TO THE IBC 2003 REQUIREMENTS FOR SPECIAL MOMENT RESISTING SPACE FRAMES (SMRSF).

STRUCTURAL STEEL, CONT

- MOMENT FRAME WELDS: SPECIAL WELDING PROVISIONS FOR FULL PENETRATION WELDS USED IN MOMENT FRAMES: WELDING SHALL COMPLY WITH THE REQUIREMENTS IN AMERICAN WELDING SOCIETY (AWS) D1.1 AS MODIFIED IN IBC 2003 CHAPTER 22 AND THE FOLLOWING:
 - ARC STRIKES GOUGES OR OTHER IMPERFECTIONS WITHIN OR ADJACENT TO THE JOINT SHALL BE REPAIRED OR REMOVED.
 - PREHEAT, AND INTERPASS REQUIREMENTS AS OUTLINED IN SECTION 4.2.
 - ALL WELDS FOR THE FRAME BEAM-COLUMN JOINTS SHALL BE STARTED AND ENDED ON WELD TABS WHERE PRACTICAL. ALL WELD TABS SHOULD BE REMOVED, THE AFFECTED AREA GROUND SMOOTH AND TESTED FOR DEFECTS USING THE MAGNETIC PARTICLE METHOD.
 - BACKING BARS, IF USED, SHOULD BE REMOVED FROM THE GIRDER BOTTOM FLANGE, THE WELD ROOT BACK-GOUGED BY AIR ARCING AND AREA TESTED FOR DEFECTS USING THE MAGNETIC PARTICLE METHOD. THE WELD SHALL BE REPAIRED AND REINFORCED WITH A FILLET WELD PER AWS D1.1.
 - WELD DAMS DO NOT MEET THE INTENT OF WELD TABS AND ARE NOT PERMITTED IN LIEU OF WELD TABS.
 - FILLER METAL SHOULD HAVE A NOTCH TOUGHNESS NOT LESS THAN 20 FOOT-POUNDS (27.1N-m) AS MEASURED BY A STANDARD CHARPY V-NOTCH TEST, ASTM E 23, IN ACCORDANCE WITH THE APPLICABLE FILLER METAL SPECIFICATIONS REFERENCED IN AWS D1.1. THE NOTCH TOUGHNESS SHALL BE MEASURED AT LEAST 30 DEGREES FAHRENHEIT (-11 DEGREES CELSIUS) BELOW THE LOWEST AMBIENT SERVICE TEMPERATURE BUT NOT WARMER THAN 0 DEGREES FAHRENHEIT (-17 DEGREES CELSIUS).
 - CRACKS, GOUGES, GROOVES AND NOTCHES WILL NOT BE PERMITTED IN THE JOINT AREA.
 - ALL COMPLETE PENETRATION GROOVE WELDS CONTAINED IN JOINTS AND SPLICES SHALL BE TESTED 100 PERCENT EITHER BY ULTRASONIC TESTING OR BY RADIOGRAPHY.
- SPECIAL INSPECTIONS AND TESTING OF WELDS AS REQUIRED BY IBC 2003 SHALL BE PROVIDED BY THE OWNER.
- ALL BEAM CONNECTIONS, NOT SHOWN TO BE MOMENT CONNECTIONS AND NOT DETAILED OTHERWISE SHALL BE MADE USING AISC LRFD 2ND EDITION TABLE 9-5 "SHEAR END PLATE CONNECTIONS" WITH THE MAXIMUM NUMBER OF ROWS SHOWN FOR THAT BEAM.
- MECHANICAL ROOF TOP UNITS SHALL BE PLACED OVER ADDITIONAL OR SPECIAL JOISTS AS SHOWN ON DRAWINGS. THE WEIGHT, SIZE AND LOCATION OF ALL PROPOSED UNITS AND CURBS SHALL BE SUBMITTED TO THE ARCHITECT/ENGINEER FOR VERIFICATION BEFORE FABRICATION OF STEEL.
- FRAMES FOR ROOF OPENINGS AND SUPPORTS FOR ROOF MOUNTED MECHANICAL EQUIPMENT ARE INDICATED ON DRAWINGS FOR BID PURPOSES ONLY. UPON RECEIPT OF MECHANICAL SUBMITTALS, THE CONTRACTOR SHALL FURNISH STEEL SUPPLIER SUPPLEMENTARY DRAWINGS OR OTHER INFORMATION NECESSARY TO LAYOUT AND DETAIL THIS PORTION OF THE WORK. OTHER STEEL WORK SHALL NOT BE DELAYED BY THIS PORTION OF THE WORK. SHOP DRAWINGS SHALL BE SUBMITTED TO ENGINEER FOR REVIEW.

WOOD FRAMING

- REFER TO STRUCTURAL DRAWINGS AND SPECIFICATIONS FOR DETAILS, ADDITIONAL NOTES AND SCHEDULES PERTAINING TO PLYWOOD ROOF, FLOOR, AND SHEAR WALL DIAPHRAGMS.
- STRUCTURAL FRAMING LUMBER SHALL BE CLEARLY MARKED AND MEET THE FOLLOWING MINIMUM GRADES AS DEFINED BY THE 2003 EDITION OF THE NATIONAL DESIGN SPECIFICATION:
 - 2" TO 4" THICK, 5" AND WIDER: DOUGLAS FIR-LARCH (SOUTH) GRADE NO.2
 - BEARING WALL STUDS: DOUGLAS FIR-LARCH (SOUTH) STUD GRADE OR BETTER OVER 8' LENGTH: NO. 2 OR BETTER
 - POSTS AND TIMBERS: DOUGLAS FIR-LARCH (SOUTH) GRADE NO. 1
- ALL JOISTS SHALL BE SUPPORTED LATERALLY AT THE ENDS AND AT EACH SUPPORT BY SOLID BLOCKING 2" THICK AND THE FULL DEPTH OF THE JOIST, EXCEPT WHERE THE END OF THE JOIST IS ATTACHED TO A HEADER OR BOND BEAM WITH METAL ANCHORS OR HANGERS.
- ALL NAILS SPECIFIED ON DETAILS OR SCHEDULED SHALL BE COMMON NAILS UNLESS NOTED OTHERWISE.
- HOLES FOR NAILS, WHERE NECESSARY TO PREVENT SPLITTING, SHALL BE BORED OF A DIAMETER SMALLER THAN THAT OF THE NAILS.
- ALL JOISTS AND BEAM HANGERS, FRAMING ANCHORS, STRAP TIES, AND OTHER METAL FASTENERS FOR WOOD FRAMING SHALL BE SIMPSON BRAND (OR EQUIV).
- CUTTING AND NOTCHING OF STUDS, IN EXTERIOR WALLS AND BEARING PARTITIONS, ANY WOOD STUD IS PERMITTED TO BE CUT OR NOTCHED TO A DEPTH NOT EXCEEDING 25% OF ITS WIDTH. CUTTING OR NOTCHING OF STUDS TO A DEPTH NOT GREATER THAN 40% OF THE WIDTH IS PERMITTED IN NONBEARING PARTITIONS SUPPORTING NO LOADS OTHER THAN THE WEIGHT OF THE PARTITION.
- BORED HOLES IN STUDS. A HOLE NOT GREATER IN DIAMETER THAN 40% OF THE STUD WIDTH IS PERMITTED TO BE BORED IN ANY WOOD STUD. BORED HOLES NOT GREATER THAN 60% OF THE WIDTH OF THE STUD ARE PERMITTED IN NONBEARING PARTITIONS OR IN ANY WALL WHERE EACH BORED STUD IS DOUBLED. PROVIDED NOT MORE THAN TWO SUCH SUCCESSIVE DOUBLED STUDS ARE SO BORED.
- IN NO CASE SHALL THE EDGE OF THE BORED HOLE BE NEARER THAN 5/8" TO THE EDGE OF THE STUD.
- NAILS AND STAPLES SHALL COMPLY WITH THE REQUIREMENTS OF ASTM F 1667.

MANUFACTURED TIMBER PRODUCTS

- GLUE-LAMINATED TIMBER (GLS): UNLESS NOTED OTHERWISE, ALL GLUE-LAMINATED TIMBER SHALL BE OF DOUGLAS FIR (NORTH) AND HAVE THE FOLLOWING PROPERTIES:

MIN ALLOWABLE BENDING STRESS	Fb = 2400 PSI
MIN ALLOWABLE SHEAR STRESS	Fv = 190 PSI
MODULUS OF ELASTICITY	E = 1,800,000 PSI

UNLESS NOTED OTHERWISE ON THE DRAWINGS, ALL GLUE-LAMINATED BEAMS SHALL HAVE A POSITIVE CAMBER OF AN 1800' RADIUS.
EXPOSED GLUE-LAMINATED TIMBER SHALL BE OF ARCHITECTURAL GRADE.
- LAMINATED VENEER LUMBER (LVL): UNLESS NOTED OTHERWISE, LVL BEAMS SHALL HAVE THE FOLLOWING PROPERTIES:

MIN ALLOWABLE BENDING STRESS	Fb = 2600 PSI x (12/D) ^{0.136}
MIN ALLOWABLE SHEAR STRESS	Fv = 285 PSI
MODULUS OF ELASTICITY	E = 1,900,000 PSI
- PARALLEL STRAND LUMBER (PSL): UNLESS NOTED OTHERWISE, PSL MEMBERS SHALL HAVE THE FOLLOWING PROPERTIES:

MIN ALLOWABLE BENDING STRESS	Fb = 2900 PSI x (12/D) ^{0.111}
MIN ALLOWABLE SHEAR STRESS	Fv = 290 PSI
MODULUS OF ELASTICITY	E = 2,000,000 PSI
COMPRESSION PARALLEL TO GRAIN	Fc = 2900 PSI
COMPRESSION PERPENDICULAR TO GRAIN AND PARALLEL TO WIDE FACE OF STRANDS	Fc = 650 PSI
- LAMINATED STRAND LUMBER (LSL): UNLESS NOTED OTHERWISE, LSL MEMBERS SHALL HAVE THE FOLLOWING PROPERTIES:

MIN ALLOWABLE BENDING STRESS	Fb = 2250 PSI x (12/D) ^{0.092}
MIN ALLOWABLE SHEAR STRESS	Fv = 285 PSI
MODULUS OF ELASTICITY	E = 1,500,000 PSI
COMPRESSION PARALLEL TO GRAIN	Fc = 1950 PSI
COMPRESSION PERPENDICULAR TO GRAIN AND PARALLEL TO WIDE FACE OF STRANDS	Fc = 650 PSI

PLYWOOD DIAPHRAGMS

- NEW ROOF SHEATHING:

TYPE:	5/8" APA RATED EXPOSURE 1 (40/20) OR OSB EQUIVALENT
NAILING:	10d COMMON NAILS @ 6" OC TO ALL PLYWOOD PANEL EDGES, BEAMS, BLOCKING OVER SHEAR WALLS, AND DIAPHRAGM BOUNDARIES. 10d @ 12" OC TO ALL INTERMEDIATE SUPPORTS.
BLOCKING:	NOT REQUIRED.
LAYOUT:	FACE GRAIN PERPENDICULAR TO SUPPORTS.
- FLOOR SHEATHING:

TYPE:	3/4" APA-RATED EXPOSURE 1 TONGUE AND GROOVE SHEATHING (48/24)
NAILING:	GLUE AND NAIL WITH 10d GALVANIZED COMMON NAILS @ 6" OC TO ALL SUPPORTED PLYWOOD PANEL EDGES, BEAMS, BLOCKING OVER SHEARWALLS, AND DIAPHRAGM EDGES. USE 10d COMMON NAILS @ 10" OC AND GLUE TO ALL INTERMEDIATE SUPPORTS.
BLOCKING:	NOT REQUIRED.
LAYOUT:	FACE GRAIN PERPENDICULAR TO SUPPORTS.

PREFABRICATED WOOD JOISTS

- JOISTS SHALL BE BY MANUFACTURER SPECIFIED ON THE DRAWINGS.
- THE FABRICATION PLANT MUST HAVE A CURRENT ICBO RESEARCH COMMITTEE RECOMMENDATION CARD APPLICABLE TO THE PARTICULAR JOIST ASSEMBLY AND PLANT LOCATION INVOLVED.
- STRUCTURAL CAPACITIES AND DESIGN PRECISIONS FOR PREFABRICATED WOOD I-JOISTS SHALL BE ESTABLISHED AND MONITORED IN ACCORDANCE WITH ASTM D 5055.
- PRIOR TO FABRICATION AND PLACEMENT, SHOP DRAWINGS FOR ALL PREFABRICATED JOISTS SHALL BE REVIEWED BY THE STRUCTURAL ENGINEER. STRUCTURAL CALCULATIONS OR LOAD TABLES FOR THE JOISTS SHALL ALSO BE SUBMITTED TO THE STRUCTURAL ENGINEER AT THIS TIME.
- STRUCTURAL CALCULATIONS SHALL BEAR THE SEAL OF A REGISTERED PROFESSIONAL ENGINEER, AND LOAD TABLES SHALL BE APPROVED BY ICBO.
- MANUFACTURER SHALL PROVIDE ALL BLOCKING, WEB STIFFENERS, ETC, REQUIRED FOR PROPER ERECTION OF JOISTS, INCLUDING ITEMS NOT SHOWN ON DRAWINGS. SHOP DRAWINGS SHALL CLEARLY INDICATE LOCATIONS FOR THESE ITEMS.
- UNLESS NOTED OTHERWISE, PROVIDE SOLID, FULL DEPTH PREFABRICATED BLOCKING AT THE ENDS AND OVER EACH SUPPORT.
- ANCHOR ALL JOISTS TO SUPPORTS WITH GALVANIZED FRAMING ANCHORS.

DRILL & EPOXY ANCHORAGES

- USE HILTI HIT HY150 ADHESIVE SYSTEM OR EQUIVALENT FOR CONCRETE AND SOLID GROUTED MASONRY CONNECTIONS.
- USE HILTI HY20 ADHESIVE SYSTEM OR EQUIVALENT FOR ALL HOLLOW UNIT CMU CONNECTIONS AND UNREINFORCED MASONRY WALLS, INCLUDING MULTI-WYTHE WALLS.
- TEN PERCENT OF ALL ANCHORS PLACED SHALL BE RANDOMLY TESTED TO 100% OF MANUFACTURER'S SPECIFIED ALLOWABLE LOAD. IF ANY ANCHOR FAILS IT SHALL BE REPLACED AND RETESTED AT NO ADDITIONAL COST TO THE OWNER. IF AN ANCHOR FAILS, 100% OF ALL OTHER ANCHORS INSTALLED BY THAT SAME CREW SHALL BE TESTED AT NO ADDITIONAL COST TO THE OWNER.

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STRUCTURAL
DETAILS

S001

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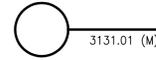
UNDERPINNING NOTES:

THE METHOD FOR INSTALLING THIS UNDERPINNING MAY FOLLOW THE CONSTRUCTION SEQUENCE BELOW OR THE CONTRACTOR MAY SUBMIT AN ALTERNATE METHOD. IN EITHER CASE, THE CONTRACTOR SHALL BE FULLY RESPONSIBLE FOR THE METHOD CHOSEN AND THE SAFETY OF THE EXCAVATION PROCESS.

SUGGESTED CONSTRUCTION SEQUENCE:

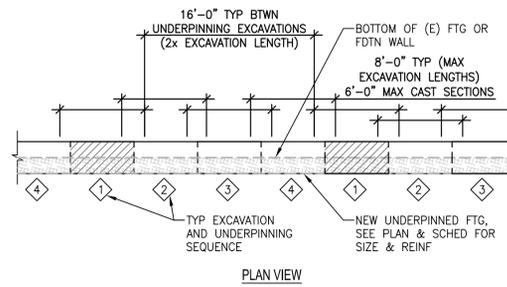
1. EXCAVATE TO TOP OF EXISTING FOOTING.
2. INSTALL NEW CONTINUOUS CHANNEL PER DETAILS D4 & D5/S501.
3. EXCAVATE TO BOTTOM OF NEW FOOTING IN 8' WIDE SECTIONS IN STAGES AS SHOWN AT RIGHT.
4. SECTIONS OF UNDERPINNING AT CORNERS OF WALLS SHOULD BE AS SMALL IN HORIZONTAL DIMENSION AS POSSIBLE, AND IT IS SUGGESTED THAT THESE BE COMPLETED FIRST.
5. CAST CONCRETE FOOTING AND UNDERPINNING WALL. HORIZONTAL REINFORCING BARS IN FOOTING AND IN WALL SHALL BE SPLICED BETWEEN SECTIONS BY LAPPING OR MECHANICAL COUPLERS RATED FOR TENSION.

TYP UNDERPINNING SEQUENCING AND NOTES



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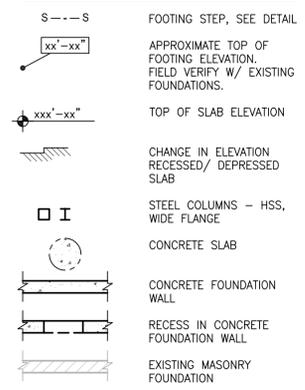
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FOOTING & FDN NOTES

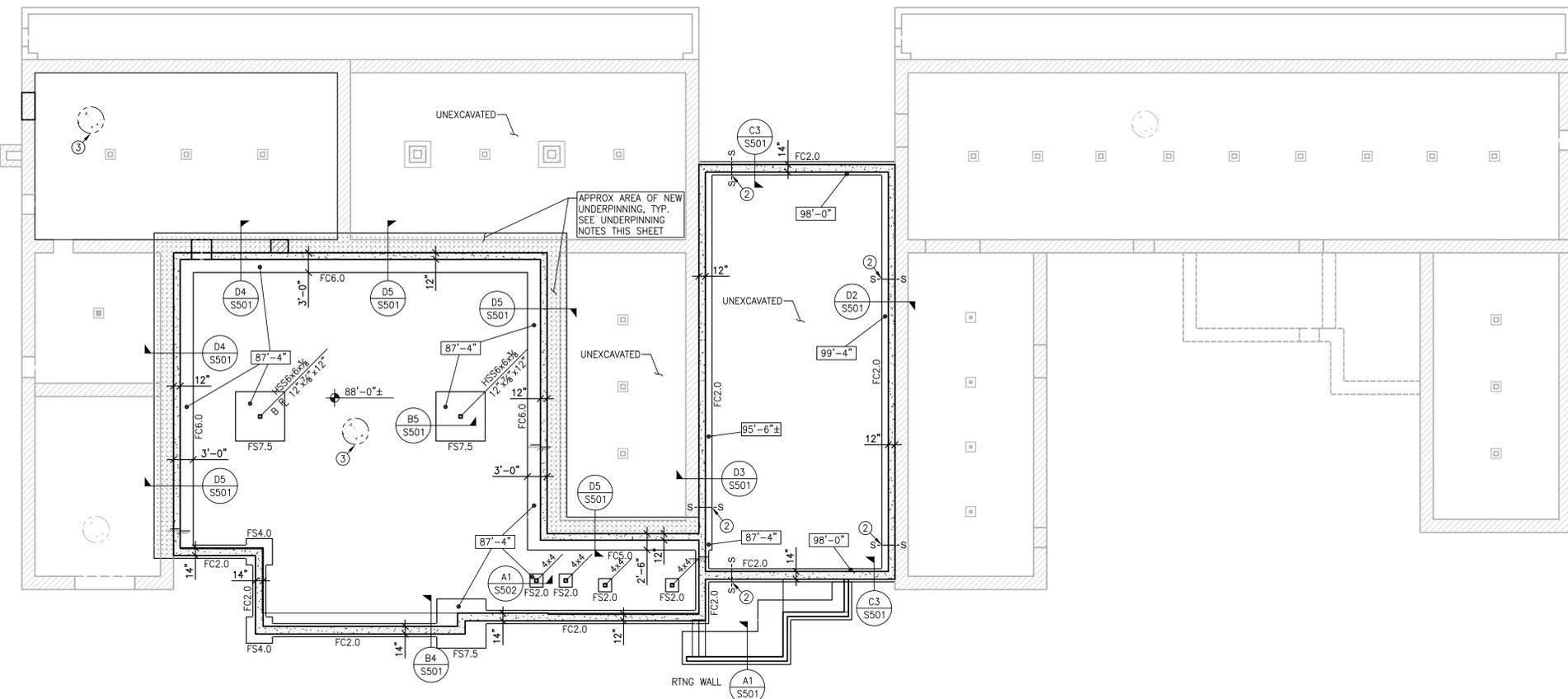
1. TOP OF SLAB ELEVATION NOTED THUS: SLOPE UNIFORMLY TO $\text{xxx}^{\circ}\text{-xx}^{\circ}$
2. SEE DETAIL A3/S501 FOR TYPICAL STEP IN FOOTING. PROVIDE AS MANY STEPS AS NEEDED TO MEET TOP OF FOOTING DIFFERENTIALS.
3. NEW SLAB ON GRADE SHALL BE 4" CONCRETE OVER 4" FREE-DRAINING GRAVEL. REINFORCE SLAB WITH 6x6-W1.4xW1.4 WWF, UNO.
4. PLACE CONTROL JOINTS AND CONSTRUCTION JOINTS IN SLAB PER GENERAL NOTES. SEE DETAIL A4/S501.
5. SEE PLAN FOR FOOTING TYPE. SEE SCHEDULE THIS SHEET FOR FOOTING SIZE AND REINFORCEMENT.
6. CENTER FOOTINGS ON WALLS AND COLUMNS UNLESS DIMENSIONED OTHERWISE ON PLANS.
7. SEE PLAN AND SECTIONS FOR TOP OF FOUNDATION WALL ELEVATIONS.
8. SEE DETAIL A5/S501 FOR TYPICAL CONC REINFORCEMENT AT INTERSECTIONS.
9. FOUNDATION DESIGN INFORMATION WAS OBTAINED FROM THE SOILS REPORT PREPARED BY AGE. ALL SITE PREPARATION, EXCAVATION, FILL, COMPACTION, AND PLACEMENT WORK PERFORMED SHALL COMPLY WITH RECOMMENDATIONS OUTLINED IN THE ABOVE REFERENCED REPORT.
10. SEE ARCHITECTURAL/SITE DRAWINGS FOR INFORMATION AND LOCATION OF SITE WALLS, STEPS, PLANTERS, RAMPS, ETC.
11. REFER TO DETAIL A2/S501 FOR TYPICAL REINFORCEMENT AT CONCRETE STEPS
12. CONTRACTOR MUST FIELD VERIFY AND COORDINATE ALL FIELD DIMENSIONS AND ELEVATIONS PRIOR TO ANY NEW FABRICATION.
13. CONTRACTOR MUST FIELD VERIFY ALL EXISTING CONDITIONS NOTED ON DRAWINGS. IF ANY CONDITION DIFFERS TO WHAT IS SHOWN, CONTRACTOR MUST NOTIFY ARCHITECT AND ENGINEER.
14. SEE GENERAL NOTES ON SHEET S001 FOR ADDITIONAL INFORMATION.

LEGEND



MARK	WIDTH	LENGTH	THICK	CROSSWISE REINF				LENGTHWISE REINF			NOTES	
				NO	SIZE	LENGTH	SPACING	NO	SIZE	LENGTH		SPACING
FC2.0	2'-0"	CONT	12"	-	-	-	-	(3)	#4	CONT	EQ	
FC5.0	5'-0"	CONT	14"	-	#5	4'-6"	12" OC	(5)	#5	CONT	EQ	
FC6.0	6'-0"	CONT	16"	-	#5	5'-6"	10" OC	(7)	#5	CONT	EQ	
FS2.0	2'-0"	2'-0"	12"	(3)	#4	1'-6"	EQ	(3)	#4	1'-6"	EQ	
FS4.0	4'-0"	4'-0"	12"	(4)	#5	3'-6"	EQ	(4)	#5	3'-6"	EQ	
FS7.5	7'-6"	7'-6"	18"	(7)	#7	7'-0"	EQ	(7)	#7	7'-0"	EQ	

- NOTES**
1. PLACE CROSSWISE REINFORCING 3" CLEAR FROM GRADE AND LENGTHWISE REINFORCING ON TOP OF CROSSWISE.
 2. ALL CONTINUOUS FOOTINGS SHALL BE FC2.0 AND SQUARE FOOTINGS SHALL BE FS3.0, MINIMUM, UNO ON PLANS.



FOOTING & FOUNDATION PLAN

SCALE: 3/32" = 1'-0"

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FOOTING & FOUNDATION PLAN

S101

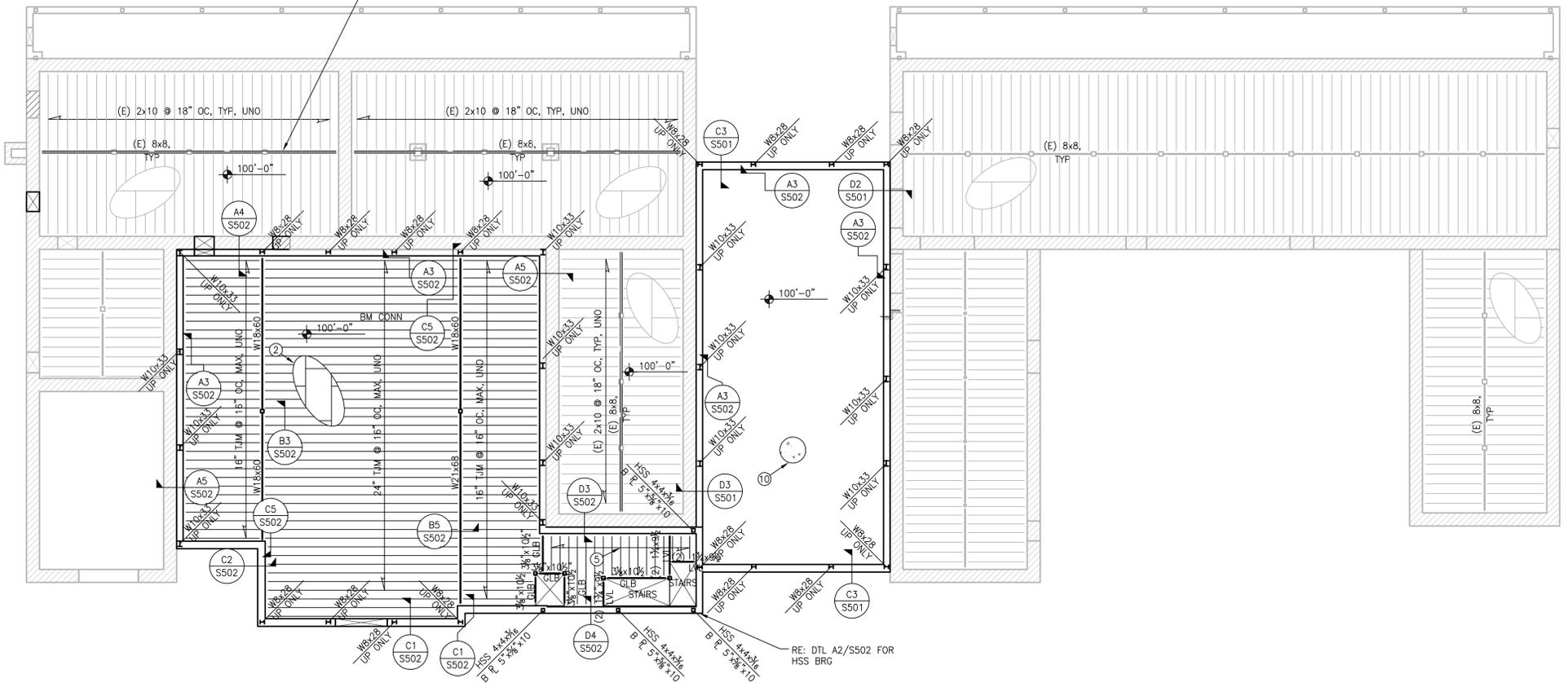
MAIN FLOOR FRAMING NOTES

- 1. FLOOR ELEVATION SHOWN ON PLAN THUS: (xxx'-xx").
- 2. NEW FLOOR SHEATHING SHALL BE 3/4" APA RATED, EXPOSURE 1, TONGUE AND GROOVE, PANEL INDEX #48/24. NAIL WITH: 10d COMMON @ 6" OC - PANEL EDGES 10d COMMON @ 10" OC - ELSEWHERE.
- 3. REFER TO DETAIL C5/S502 FOR STEEL BEAM TO CONCRETE WALL CONNECTION.
- 4. BEAMS ARE 50 KSI STEEL, UNO.
- 5. 9/2" TJI 210 JOISTS @ 16" OC, MAX, UNO.
- 6. SEE DETAIL C5/S503 FOR NEW MASONRY OPENING SUPPORT.
- 7. SEE DETAIL B3/S502 FOR TYPICAL BEAM TO COLUMN CONNECTION.
- 8. CONTRACTOR MUST FIELD VERIFY AND COORDINATE ALL FIELD DIMENSIONS AND ELEVATIONS PRIOR TO ANY NEW FABRICATION.
- 9. CONTRACTOR MUST FIELD VERIFY ALL EXISTING CONDITIONS NOTED ON DRAWINGS. IF ANY CONDITION DIFFERS TO WHAT IS SHOWN, CONTRACTOR MUST NOTIFY ARCHITECT AND ENGINEER.
- 10. NEW SLAB ON GRADE SHALL BE 4" CONCRETE OVER 4" FREE DRAINING GRAVEL. REINFORCE SLAB WITH 6x6-W1.4XW1.4 WWF, TYPICAL UNO.
- 11. SEE GENERAL NOTES ON SHEET S001 FOR ADDITIONAL INFORMATION.

LEGEND

	CHANGE IN ELEVATION		EXISTING MASONRY WALL EXTENDING ABOVE DECK
	STEEL COLUMNS - HSS, WIDE FLANGE		CONCRETE WALL EXTENDING ABOVE DECK
	STEEL BEAM,		MASONRY OR CONCRETE WALL EXTENDING TO UNDERSIDE OF FLOOR DECK
	WOOD JOIST		OPENING IN CONCRETE OR MASONRY WALL BELOW DECK
	CONCRETE SLAB ON GRADE		
	WOOD SHEATHING, W/ SPAN DIRECTION INDICATED		
	OPENING IN DECK		
	TOP OF DECK ELEVATION		

BOLT NEW 1 3/4"x9/2" LVL TO EACH SIDE OF (E) 8x8 FLOOR BEAMS W/ (2) ROWS 3/4" THRU BOLTS AT 16" OC. STAGGER ROWS, STAGGER SPLICES.



MAIN FLOOR FRAMING PLAN
SCALE: 3/32" = 1'-0"

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**MAIN FLOOR
FRAMING
PLAN**

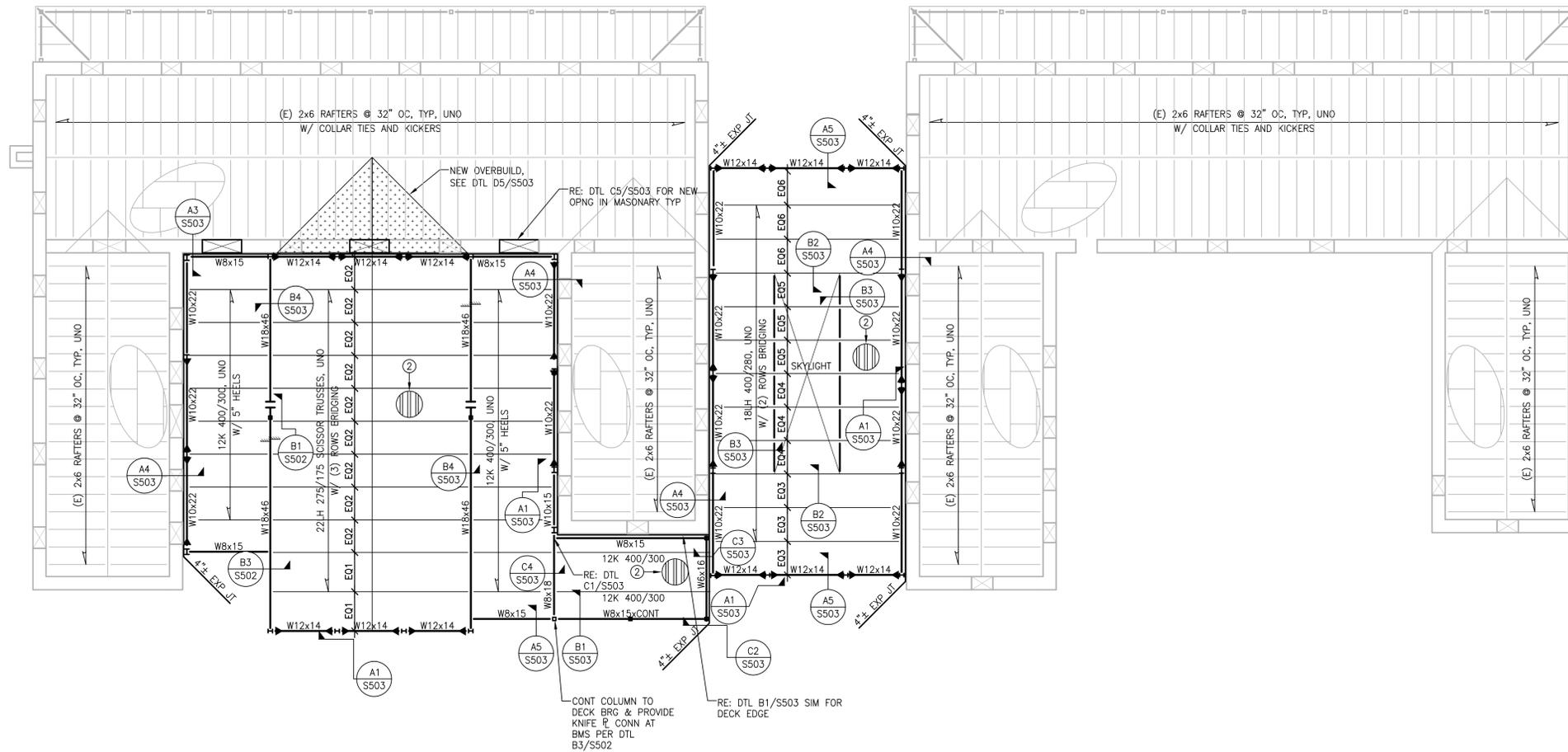
S102

ROOF FRAMING NOTES

- CIRCLED NOTES ARE KEYED ON PLAN.
- DECK BEARING ELEVATION SHOWN ON PLAN THUS: (DB=XXX'-XX"). ADJUST TOP OF FRAMING TO PROVIDE UNIFORM SLOPE BETWEEN ELEVATIONS SHOWN ON PLAN.
- ROOF DECK SHALL BE 1 1/2" VERCO TYPE HSB-36, 20 GAUGE, PAINTED, OR EQUIVALENT. PLACE DECK 3 SPANS CONTINUOUS, MINIMUM.
- DECK ATTACHMENT AS FOLLOWS:
 - DECK SPAN PERPENDICULAR TO SUPPORT: (7) 3/4" Ø PUDDLE WELDS
 - DECK SPAN PARALLEL TO SUPPORT: 3/4" Ø PUDDLE WELDS @ 12" OC
 - SEAMS: 1 1/2" TOP SEAM WELDS @ 24" OC
- BEAMS ARE 50 KSI STEEL, UNO.
- ALL CONTINUOUS DECK ANGLES TO BE FULL DEVELOPMENT BUTT WELDED AT SPLICES.
- SEE B5/S503 FOR TYPICAL ROOF OPENING DETAIL.
- SEE DETAIL C5/S503 FOR NEW MASONRY OPENING SUPPORT.
- SEE DETAIL B3/S502 FOR TYPICAL BEAM TO BEAM CONNECTION.
- SEE DETAIL B1/S502 FOR TYPICAL BEAM TO COLUMN CONNECTION.
- CONTRACTOR MUST FIELD VERIFY AND COORDINATE ALL FIELD DIMENSIONS AND ELEVATIONS PRIOR TO ANY NEW FABRICATION.
- CONTRACTOR MUST FIELD VERIFY ALL EXISTING CONDITIONS NOTED ON DRAWINGS. IF ANY CONDITION DIFFERS TO WHAT IS SHOWN, CONTRACTOR MUST NOTIFY ARCHITECT AND ENGINEER.
- SEE GENERAL NOTES ON SHEET S001 FOR ADDITIONAL INFORMATION.

LEGEND

- CHANGE IN ELEVATION
- STEEL COLUMNS - HSS, WIDE FLANGE
- STEEL BEAM, GIRDER
- STEEL JOIST
- METAL ROOF DECK, W/ SPAN DIRECTION INDICATED
- WOOD SHEATHING, W/ SPAN DIRECTION INDICATED
- OPENING IN DECK
- EXISTING MASONRY WALL
- OPENING IN CONCRETE OR MASONRY WALL BELOW DECK



ROOF FRAMING PLAN
SCALE: 3/32" = 1'-0"

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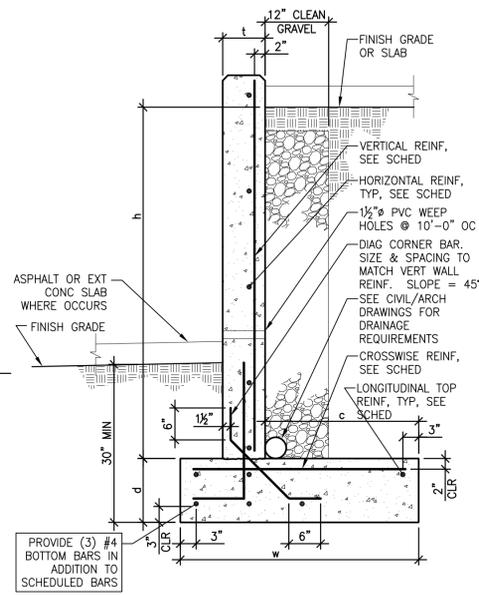
**ROOF
FRAMING
PLAN**

S103

REINFORCING LAP LENGTH SPLICE SCHEDULES								
TENSION BARS "Ld"								
BAR SIZE	f _c = 3000psi				f _c = 4000psi			
	REGULAR CLASS		TOP CLASS		REGULAR CLASS		TOP CLASS	
	A	B	A	B	A	B	A	B
#3	17"	22"	22"	28"	15"	19"	19"	24"
#4	22"	29"	29"	38"	18"	25"	26"	33"
#5	28"	36"	37"	48"	24"	31"	32"	42"
#6	33"	43"	45"	58"	29"	37"	39"	50"
#7	48"	63"	63"	82"	42"	55"	55"	71"
#8	55"	72"	72"	93"	48"	63"	63"	81"
#9	62"	81"	81"	105"	54"	71"	71"	92"
#10	70"	91"	91"	118"	61"	79"	79"	103"
#11	78"	101"	101"	131"	68"	88"	88"	114"

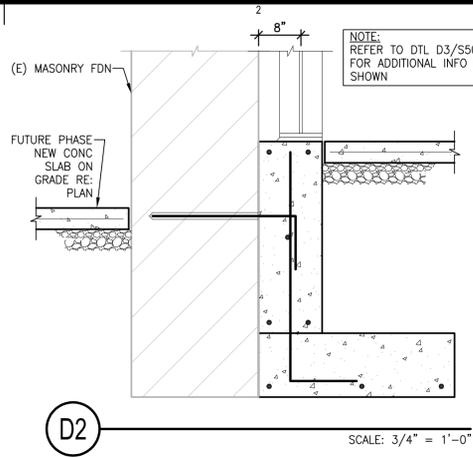
- NOTES:**
- THE SCHEDULE SHOWN APPLIES TO REG. WT. CONCRETE WITH 60ksi GRADE REINFORCING BARS.
 - TOP BARS ARE HORIZONTAL BARS WITH 12" (OR MORE), OF FRESH CONCRETE CAST BELOW THE BARS.
 - CLASS "A" SPLICES SHALL BE USED WHEN 50% (OR LESS) OF BARS SPLICED WITHIN LAP.
 - CLASS "B" SPLICES SHALL BE USED FOR ALL ELSE, TYPICALLY W/ SHEARWALLS, COLUMNS, BEAMS & SLABS.
 - FOR EPOXY COATED BARS, INCREASE LAP LENGTHS AS FOLLOWS:
TOP BARS - L_d x 1.7
REGULAR BARS - L_d x 1.5
 - FOR BUNDLED BARS, INCREASE LAP LENGTHS AS FOLLOWS:
BUNDLED BARS THREE OR LESS - L_d x 1.2
BUNDLED BARS FOUR OR MORE - L_d x 1.33
INDIVIDUAL BAR SPLICES WITHIN A BUNDLE SHALL NOT OVERLAP.
LAP SPLICES ARE NOT ALLOWED FOR TIES AND STIRRUPS.

C1 SCALE: 3/4" = 1'-0"



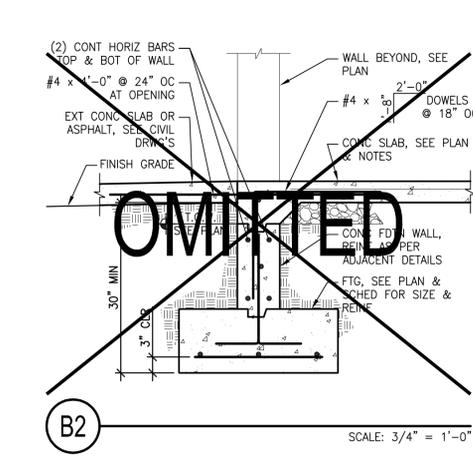
RETAINING WALL SCHEDULE							
HT	WALL	FOOTING					
		VERTICAL	HORIZONTAL	d	w	c	CROSSWISE
4'-0"	#4 @ 16"	#4 @ 12"	12"	3'-0"	1'-10"	#5 @ 16"	(2) #4
6'-0"	#4 @ 16"	#4 @ 12"	12"	5'-0"	3'-10"	#5 @ 16"	(3) #4

A1 SCALE: 3/4" = 1'-0"

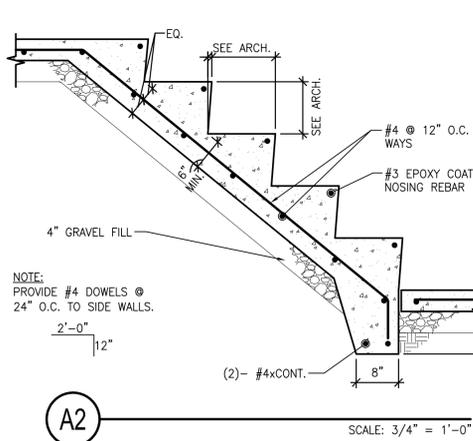


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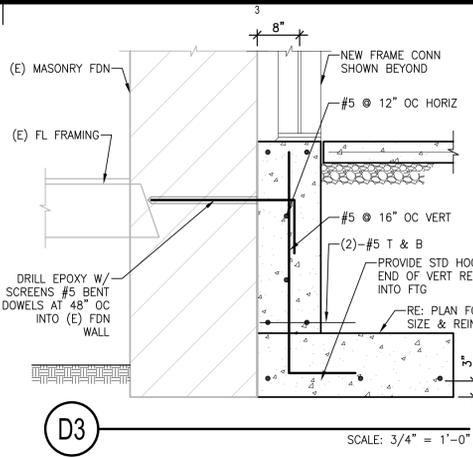
C2 SCALE: 3/4" = 1'-0"



B2 SCALE: 3/4" = 1'-0"

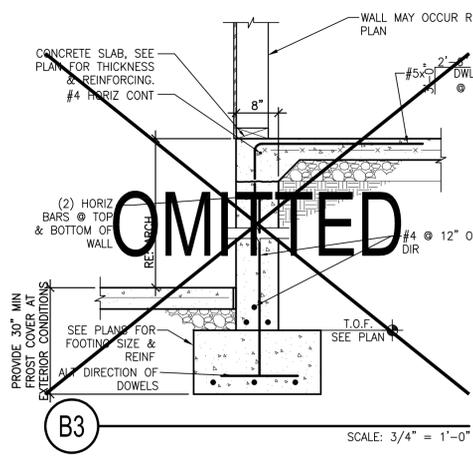


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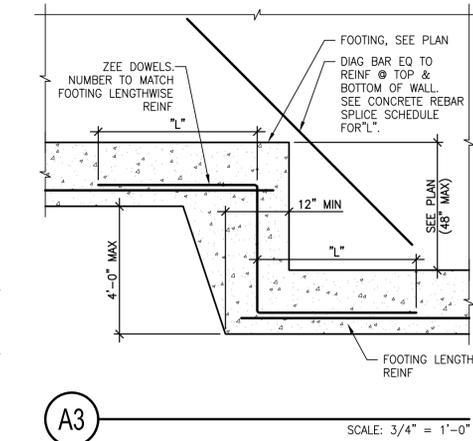


D3 SCALE: 3/4" = 1'-0"

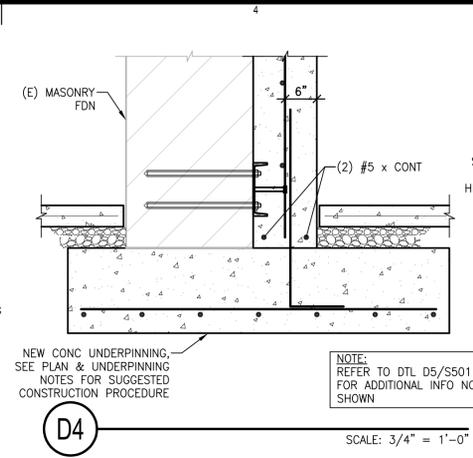
C3 SCALE: 3/4" = 1'-0"



B3 SCALE: 3/4" = 1'-0"

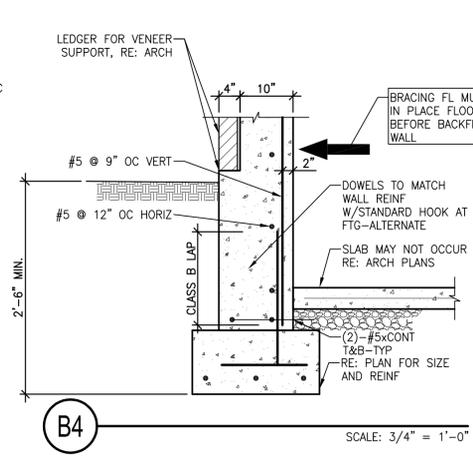


A3 SCALE: 3/4" = 1'-0"

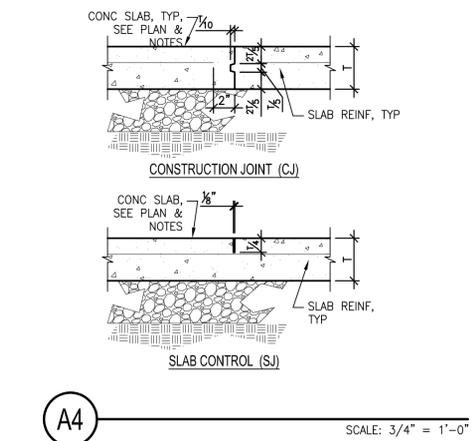


D4 SCALE: 3/4" = 1'-0"

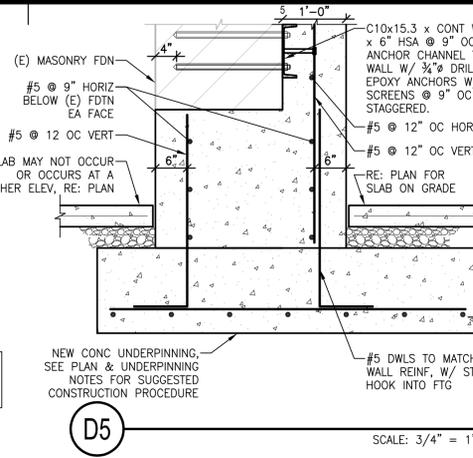
C4 SCALE: 3/4" = 1'-0"



B4 SCALE: 3/4" = 1'-0"

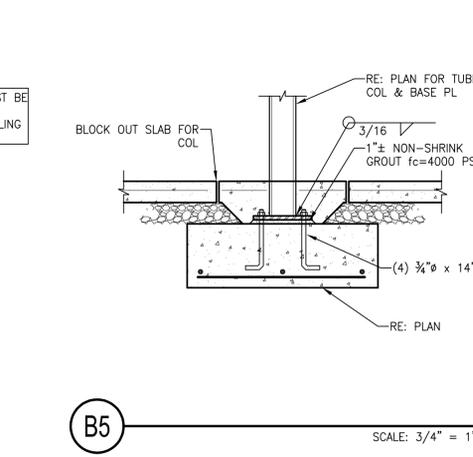


A4 SCALE: 3/4" = 1'-0"

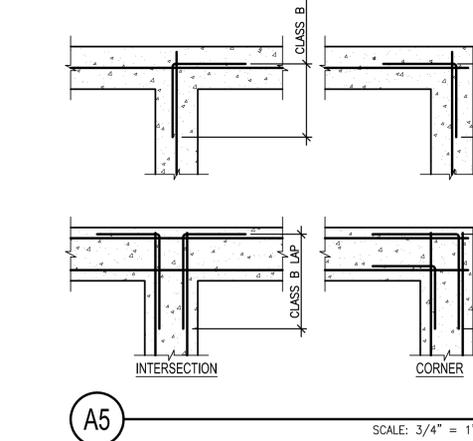


D5 SCALE: 3/4" = 1'-0"

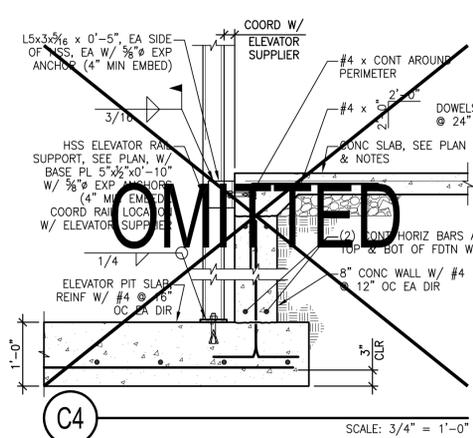
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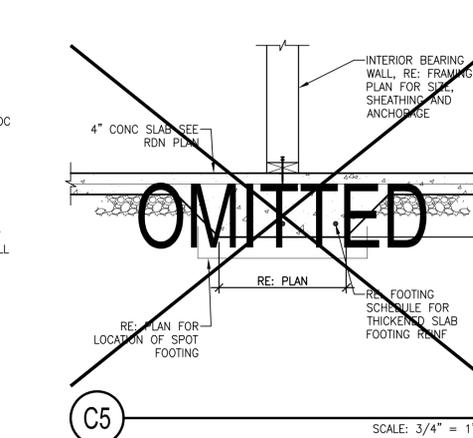
B5 SCALE: 3/4" = 1'-0"



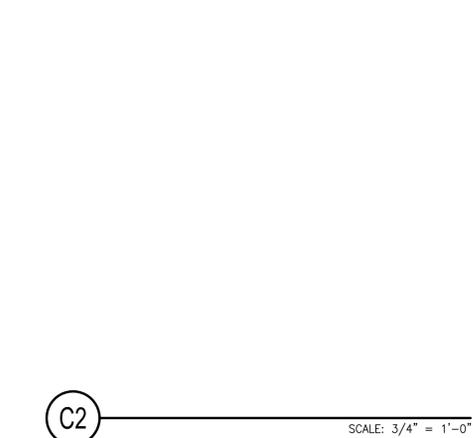
A5 SCALE: 3/4" = 1'-0"



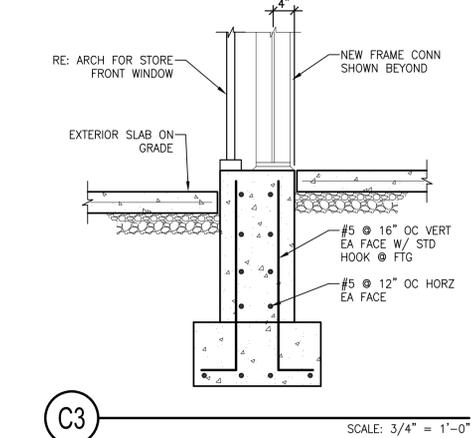
C4 SCALE: 3/4" = 1'-0"



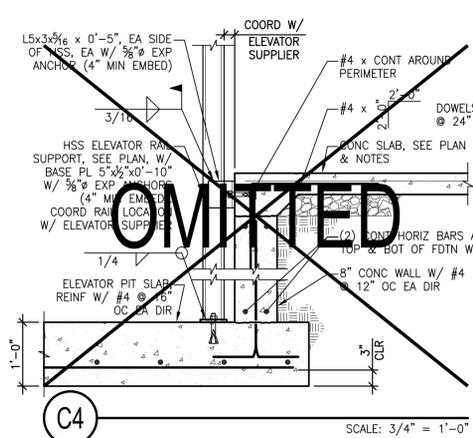
C5 SCALE: 3/4" = 1'-0"



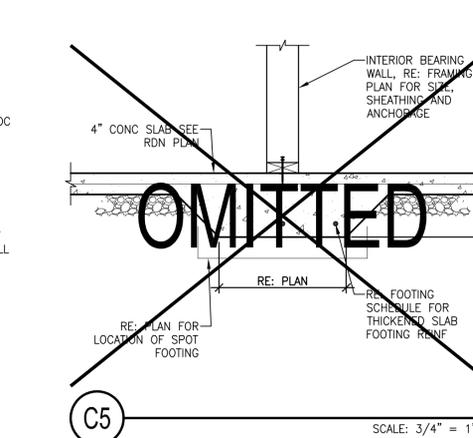
C2 SCALE: 3/4" = 1'-0"



C3 SCALE: 3/4" = 1'-0"



C4 SCALE: 3/4" = 1'-0"



C5 SCALE: 3/4" = 1'-0"

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CD	04/18/06	CD SUBMISSION PHASE I
DD	11/30/05	DD SUBMISSION
SD		

PROJECT NO: B05-027
CAD DWG FILE: S000.dwg
DRAWN BY: DJK/JRS
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S501

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CD	04/18/06	CD SUBMISSION PHASE I
DD	11/30/05	DD SUBMISSION
SD		

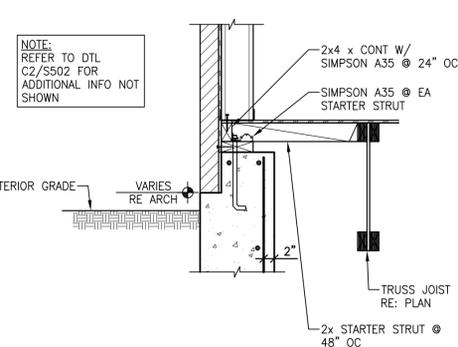
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CAD DWG FILE: S000.dwg
DRAWN BY: DJK/JRS
CHECKED BY: SAP

STRUCTURAL
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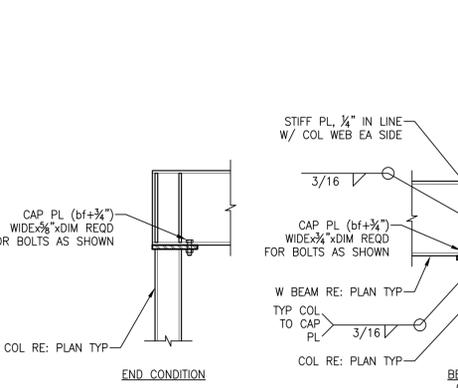
S502

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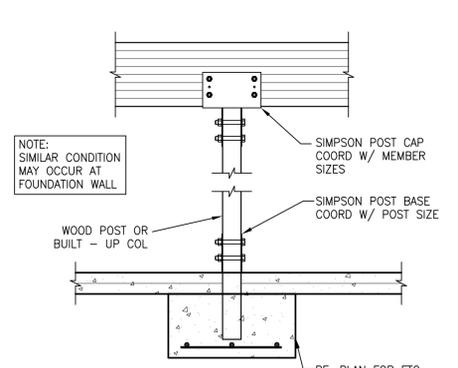
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C1 SCALE: 3/4" = 1'-0"

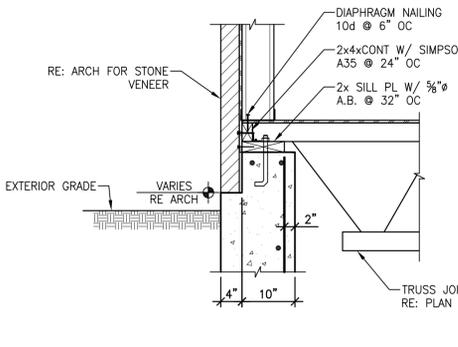


B1 SCALE: 3/4" = 1'-0"

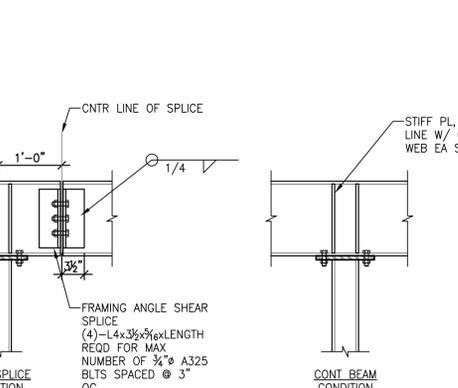


A1 SCALE: 3/4" = 1'-0"

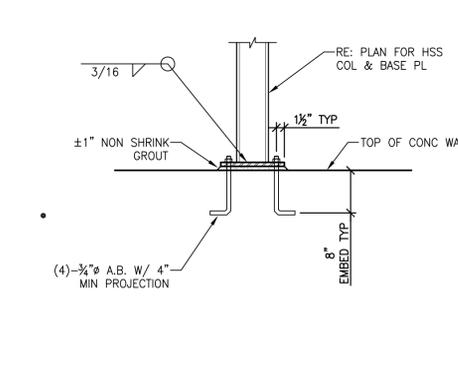
D2 SCALE: 3/4" = 1'-0"



C2 SCALE: 3/4" = 1'-0"

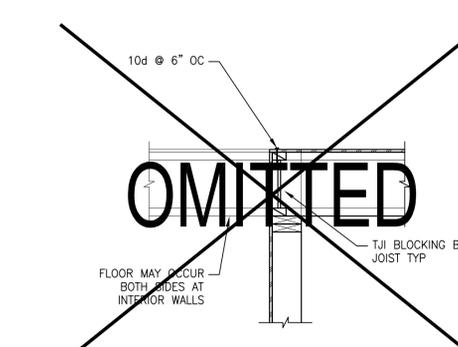


B2 SCALE: 3/4" = 1'-0"

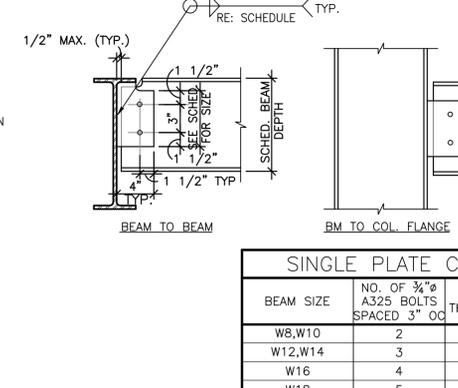


A2 SCALE: 3/4" = 1'-0"

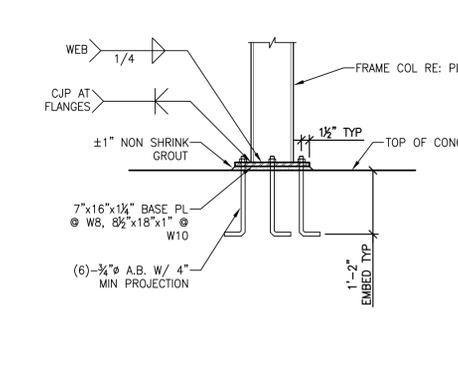
D3 SCALE: 3/4" = 1'-0"



C3 SCALE: 3/4" = 1'-0"

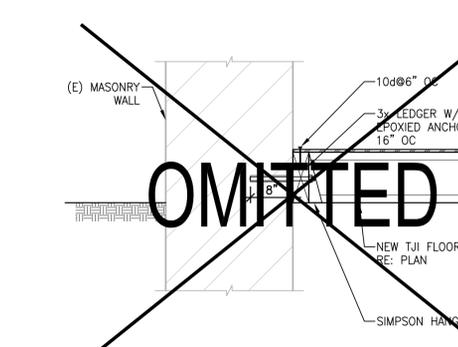


B3 SCALE: 3/4" = 1'-0"

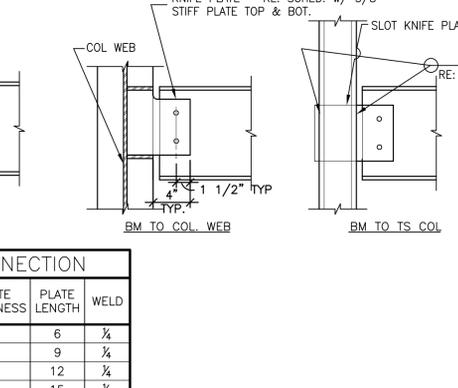


A3 SCALE: 3/4" = 1'-0"

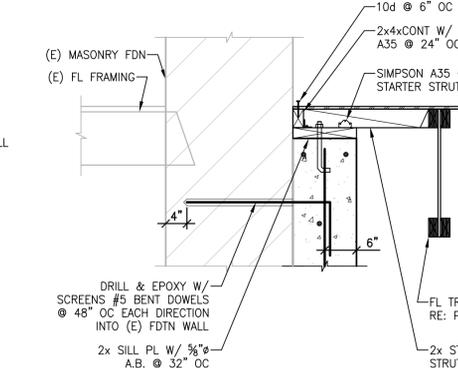
D4 SCALE: 3/4" = 1'-0"



C4 SCALE: 3/4" = 1'-0"

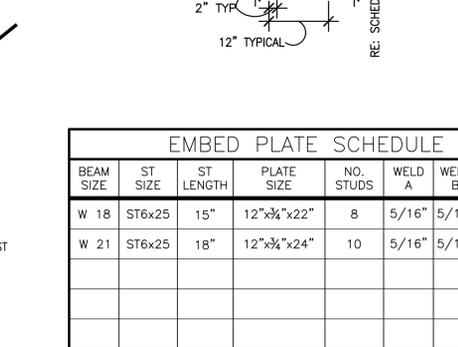


B4 SCALE: 3/4" = 1'-0"

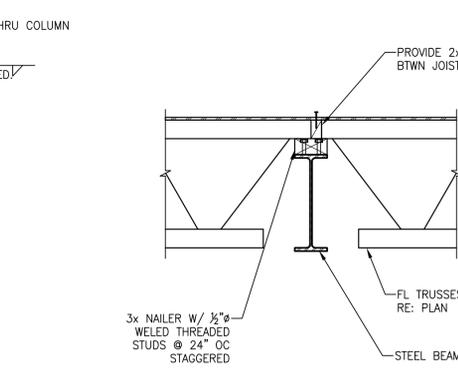


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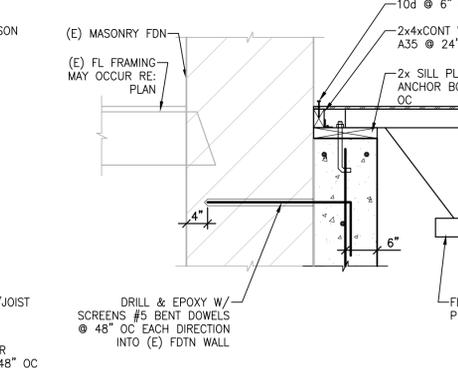
D5 SCALE: 3/4" = 1'-0"



C5 SCALE: 3/4" = 1'-0"



B5 SCALE: 3/4" = 1'-0"



A5 SCALE: 3/4" = 1'-0"

EMBED PLATE SCHEDULE

BEAM SIZE	ST SIZE	ST LENGTH	PLATE SIZE	NO. STUDS	WELD A	WELD B	REMARKS
W 18	ST6x25	15"	12"x3/4"x22"	8	5/16"	5/16"	
W 21	ST6x25	18"	12"x3/4"x24"	10	5/16"	5/16"	

OMITTED

OMITTED

SINGLE PLATE CONNECTION

BEAM SIZE	NO. OF 3/4" A325 BOLTS SPACED 3" OC	PLATE THICKNESS	PLATE LENGTH	WELD
W8,W10	2	1/4"	6	1/4"
W12,W14	3	1/4"	9	1/4"
W16	4	1/4"	12	1/4"
W18	5	1/4"	15	1/4"
W24	6	1/4"	18	1/4"

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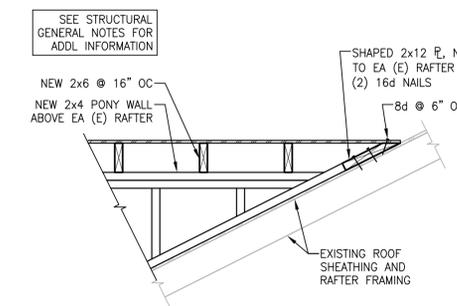
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DD	11/30/05	DD SUBMISSION
SD		

PROJECT NO: B05-027
CAD DWG FILE: S503.dwg
DRAWN BY: DJK/JRS
CHECKED BY: SAP

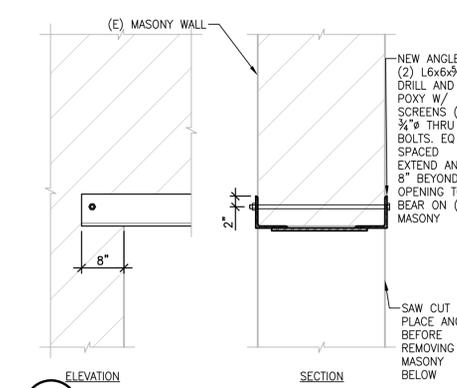
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S503

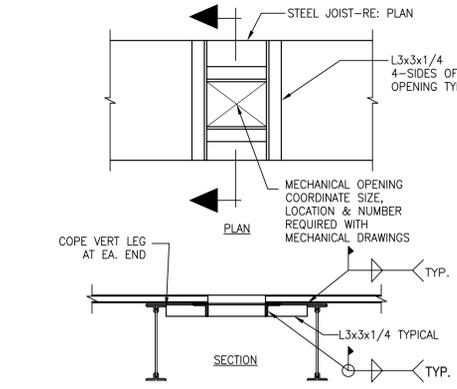
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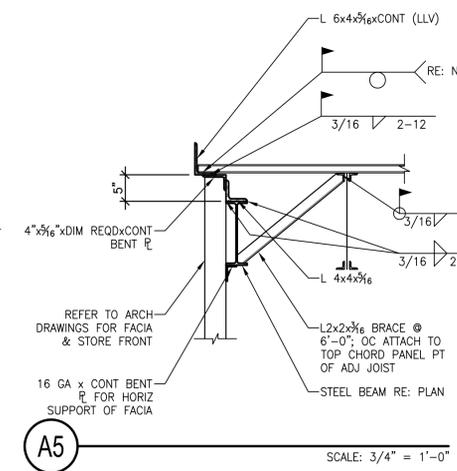
D5 6565.01 R-OVRBLD (M) SCALE: 3/4" = 1'-0"



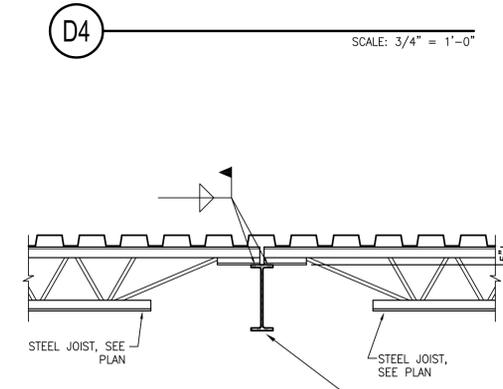
C5 SCALE: 3/4" = 1'-0"



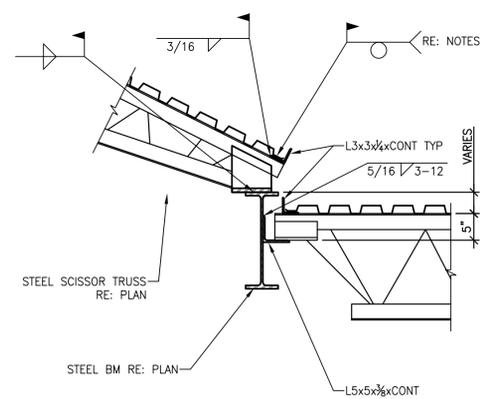
B5 SCALE: 3/4" = 1'-0"



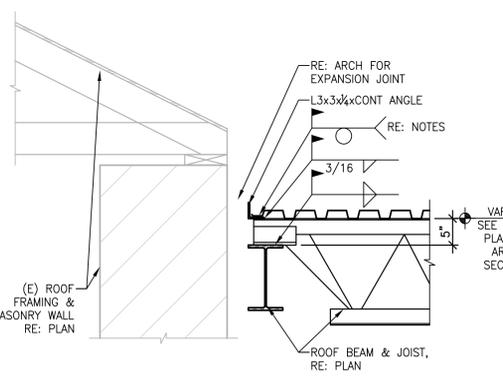
A5 SCALE: 3/4" = 1'-0"



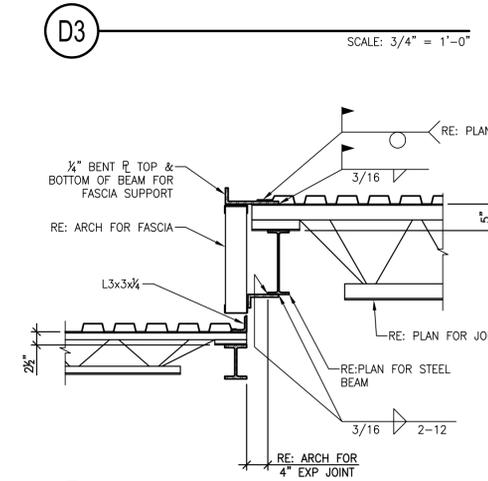
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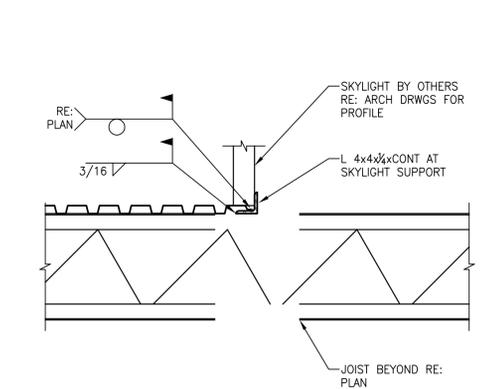
B4 SCALE: 3/4" = 1'-0"



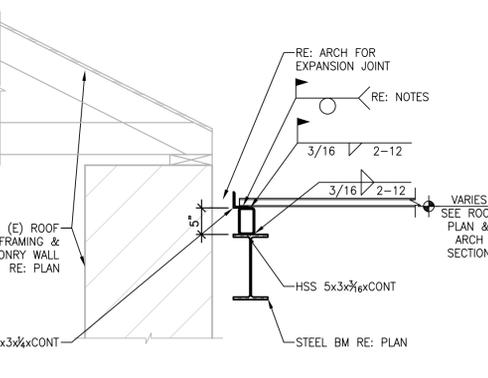
A4 SCALE: 3/4" = 1'-0"



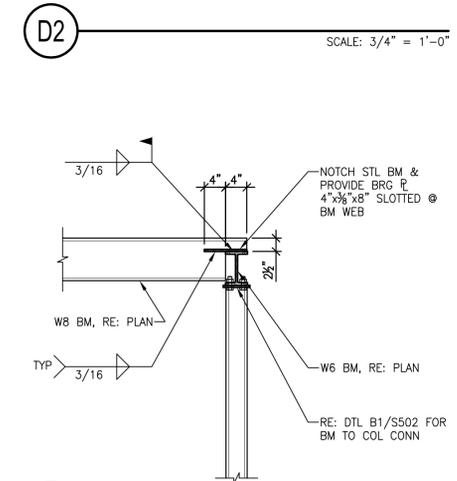
C3 SCALE: 3/4" = 1'-0"



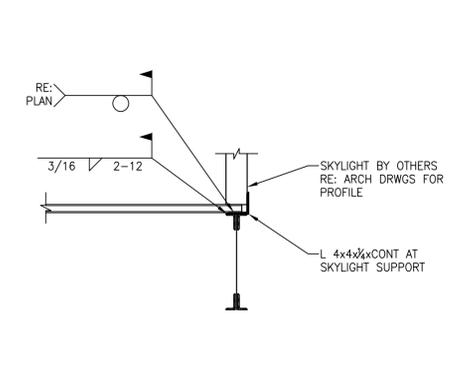
B3 SCALE: 3/4" = 1'-0"



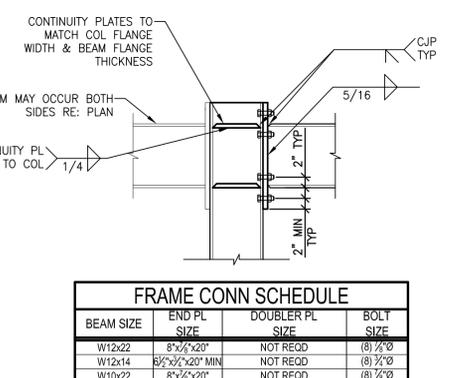
A3 SCALE: 3/4" = 1'-0"



C2 SCALE: 3/4" = 1'-0"



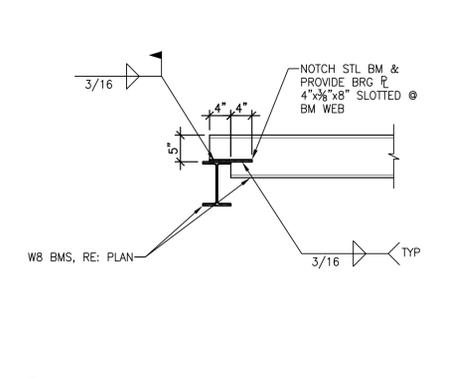
B2 SCALE: 3/4" = 1'-0"



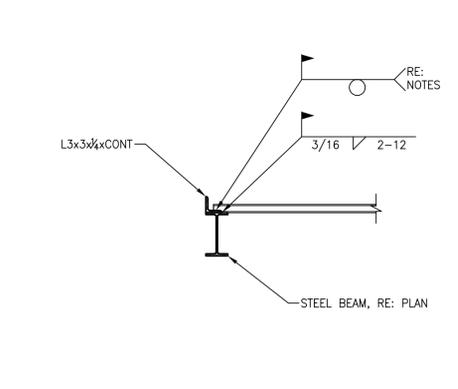
A2 SCALE: 3/4" = 1'-0"

FRAME CONN SCHEDULE			
BEAM SIZE	END PL SIZE	DOUBLER PL SIZE	BOLT SIZE
W12x22	8"x12"	NOT REQD	(8) 7/8"
W12x14	8"x12" MIN	NOT REQD	(8) 7/8"
W10x22	8"x12"	NOT REQD	(8) 7/8"

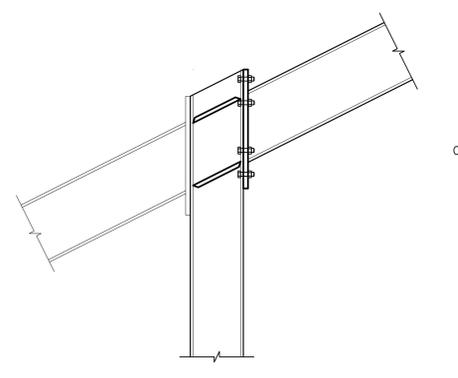
D1 SCALE: 3/4" = 1'-0"



C1 SCALE: 3/4" = 1'-0"



B1 SCALE: 3/4" = 1'-0"



A1 SCALE: 3/4" = 1'-0"

GENERAL NOTES

1. AREAS OF WORK WILL BE FREE OF ALL STORED MATERIAL, CASES, EQUIPMENT, ETC. IF ITEMS REMAIN, CONTACT OWNER FOR REMOVAL.
2. ALL ITEMS ARE EXISTING TO REMAIN UNLESS NOTED OTHERWISE.
3. ALL DEMOLISHED MATERIALS ARE TO BE LEGALLY DISPOSED OF OFF SITE.
4. ALL DRAWINGS AND STRUCTURAL DESIGNS ARE BASED ON ASSUMED CONSTRUCTION CONDITIONS AS EVIDENT BY FIELD OBSERVATIONS. IF THE EXISTING CONDITIONS VARY FROM THE ASSUMED CONDITIONS PRESENT IN THIS SET OF DOCUMENTS, THE CONTRACTOR IS TO CONTACT THE ARCHITECT & STRUCTURAL ENGINEER BEFORE PROCEEDING WITH WORK.
5. CONTRACTOR IS RESPONSIBLE TO COORDINATE ALL DEMOLITION WORK WITH MECHANICAL AND ELECTRICAL TRADES. REFERENCE MECHANICAL & ELECTRICAL PLANS FOR ADDITIONAL DEMOLITION REQUIREMENTS.
6. CONTRACTOR IS RESPONSIBLE FOR ALL SHORING & BRACING REQUIRED TO SAFELY CARRY OUT THE WORK OF THIS CONTRACT.

7. WHERE ANY ITEM IS INDICATED TO BE REMOVED, WORK OF THIS CONTRACT INCLUDES PATCH & REPAIR OF ALL FINISHES DAMAGED OR OTHERWISE IMPACTED BY THIS WORK, WHETHER OR NOT SUCH REPAIR IS SPECIFICALLY IDENTIFIED IN DRAWINGS. PATCH AND REPAIR INCLUDES, BUT IS NOT LIMITED TO:
 - A. REMOVE PAINT, CAULK, FASTENERS, & OTHER RESIDUE FROM FINISH SURFACES EXPOSED BY DEMOLITION. FILL HOLES & VOIDS WITH MATCHING MATERIALS AS APPROVED BY THE ARCHITECT.
 - B. WHERE DEMOLITION WORK EXPOSES UNFINISHED SURFACES, PROVIDE NEW FINISHES TO MATCH ADJACENT FINISH SURFACES AS APPROVED BY ARCHITECT. NEW FINISHES ARE TO BE SUBSTANTIALLY SIMILAR IN CHARACTER AND QUALITY WITH ADJACENT FINISHES.
8. DEMOLITION WORK OF THIS CONTRACT INCLUDES INCIDENTAL REMOVAL AND/OR MODIFICATION OF MINOR FEATURES NOT SPECIFICALLY INDICATED IN THE DRAWINGS, BUT REQUIRED IN ORDER TO ACCOMMODATE THE FINISHED & FUNCTIONAL DESIGN.
9. ALL DIMENSIONS SHOWING EXISTING CONDITIONS ARE TO BE FIELD VERIFIED BY CONTRACTOR.
10. CONTRACTOR IS RESPONSIBLE FOR ALL HAZARDOUS MATERIALS TESTING AND ABATEMENT. COORDINATE ANY SUCH TEST OR ABATEMENT WITH THE OWNER.

REFERENCE NOTES

- 1 EXISTING WALL TO REMAIN (SHOWN SOLID LINE).
- 2 EXISTING WALL TO BE REMOVED (SHOWN DASHED LINE & HATCHED).
- 3 REMOVE EXISTING STAIR.
- 4 REMOVE EXISTING WOOD FLOORING DOWN TO EXISTING SLAB BELOW (FIELD VERIFY).
- 5 CUT NEW OR ENLARGE EXISTING WALL OPENING AS NEEDED TO ALLOW FOR NEW DOORS OR OTHER OPENINGS. SEE FLOOR PLANS.
- 6 REMOVE EXISTING WINDOW & FRAME (OPENING MAY BE INFILLED - SEE FLOOR PLANS FOR LOCATIONS). SALVAGE IF REQUIRED - SEE REFERENCE NOTE 11.
- 7 EXCAVATE AREA OF NEW CONSTRUCTION INFILL TO DEPTH INDICATED ON DRAWINGS. SEE BUILDING SECTIONS AND STRUCTURAL DRAWINGS FOR DETAILS.
- 8 REMOVE EXISTING CURB.
- 9 REMOVE EXISTING DOOR & FRAME (OPENING MAY BE INFILLED - SEE FLOOR PLANS FOR LOCATIONS).
- 10 REMOVE EXISTING WOOD FRAME (ADDITIONAL AS SHOWN).
- 11 REMOVE GYPSUM BOARD OVER EXISTING WINDOW OPENING ON BOTH SIDES OF WALL. IT IS ASSUMED THAT AN EXISTING WINDOW IS BEHIND THE GYPSUM BOARD. IF THE EXPECTED WINDOW IS MISSING, INSTALL ONE SALVEGED WINDOW (SEE REFERENCE NOTE 6). REPAIR / RESTORE WINDOW AND INSTALL IT IN EXISTING OPENING IN MASONRY WALL.
- 12 REMOVE EXISTING FLOOR FOR NEW MECHANICAL SHAFT. PROVIDE NEW HEADERS FOR EXISTING JOISTS WHICH NEED TO BE REMOVED. COORDINATE WITH MECHANICAL PLANS.
- 13 REMOVE EXISTING GATE.
- 14 REMOVE EXISTING CURB & GUTTER.
- 15 REMOVE EXISTING WALK.

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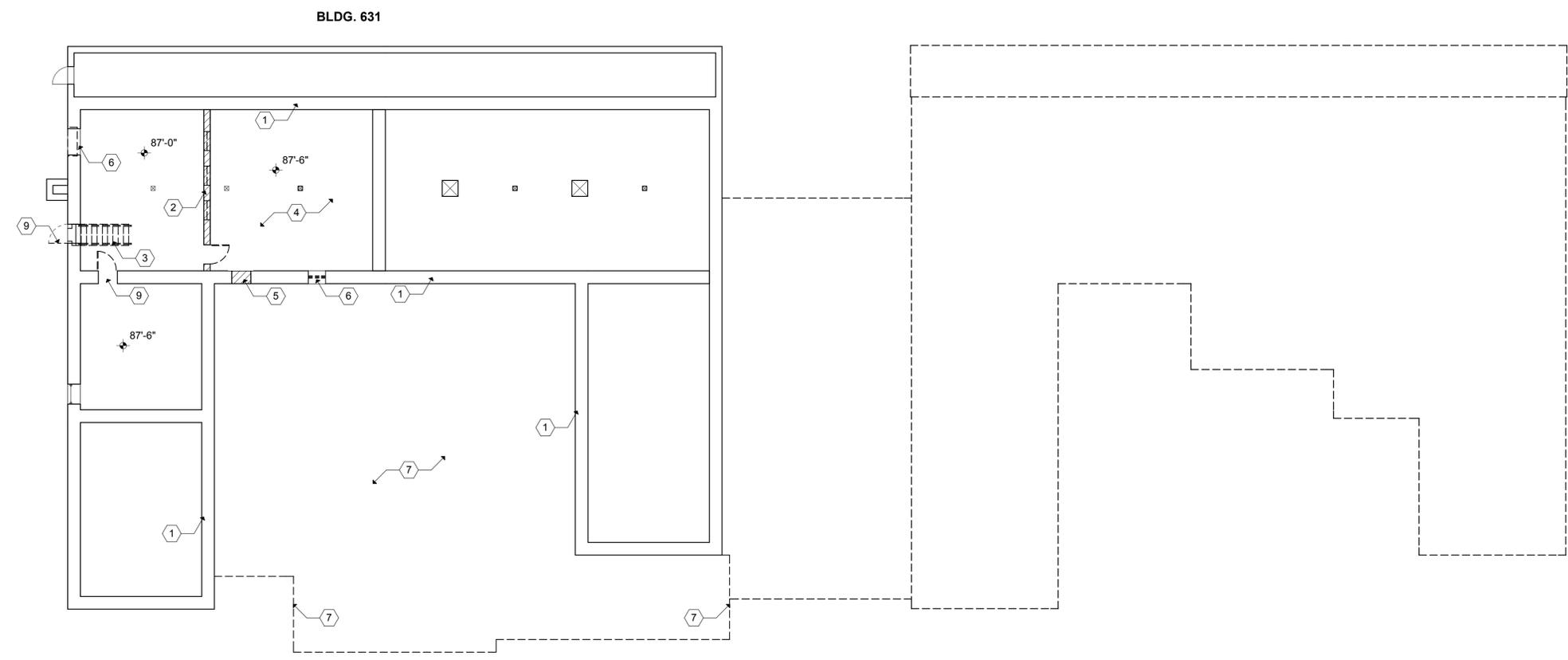
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DRAWN BY:	DR	
CHECKED BY:	AAH	

**LOWER LEVEL
DEMOLITION PLAN**

AD101



(A1) LOWER LEVEL DEMOLITION PLAN
3/32" = 1'-0"

P:\B05-027 - Ft. Douglas Military Museum - AE\Drawn\Arch\04-12-06\FDM - 04.12.06.ltk
5/11/2006

GENERAL NOTES

1. AREAS OF WORK WILL BE FREE OF ALL STORED MATERIAL, CASES, EQUIPMENT, ETC. IF ITEMS REMAIN, CONTACT OWNER FOR REMOVAL.
2. ALL ITEMS ARE EXISTING TO REMAIN UNLESS NOTED OTHERWISE.
3. ALL DEMOLISHED MATERIALS ARE TO BE LEGALLY DISPOSED OF OFF SITE.
4. ALL DRAWINGS AND STRUCTURAL DESIGNS ARE BASED ON ASSUMED CONSTRUCTION CONDITIONS AS EVIDENT BY FIELD OBSERVATIONS. IF THE EXISTING CONDITIONS VARY FROM THE ASSUMED CONDITIONS PRESENT IN THIS SET OF DOCUMENTS, THE CONTRACTOR IS TO CONTACT THE ARCHITECT & STRUCTURAL ENGINEER BEFORE PROCEEDING WITH WORK.
5. CONTRACTOR IS RESPONSIBLE TO COORDINATE ALL DEMOLITION WORK WITH MECHANICAL AND ELECTRICAL TRADES. REFERENCE MECHANICAL & ELECTRICAL PLANS FOR ADDITIONAL DEMOLITION REQUIREMENTS.
6. CONTRACTOR IS RESPONSIBLE FOR ALL SHORING & BRACING REQUIRED TO SAFELY CARRY OUT THE WORK OF THIS CONTRACT.

7. WHERE ANY ITEM IS INDICATED TO BE REMOVED, WORK OF THIS CONTRACT INCLUDES PATCH & REPAIR OF ALL FINISHES DAMAGED OR OTHERWISE IMPACTED BY THIS WORK. WHETHER OR NOT SUCH REPAIR IS SPECIFICALLY IDENTIFIED IN DRAWINGS. PATCH AND REPAIR INCLUDES, BUT IS NOT LIMITED TO:
 - A. REMOVE PAINT, CAULK, FASTENERS, & OTHER RESIDUE FROM FINISH SURFACES EXPOSED BY DEMOLITION. FILL HOLES & VOIDS WITH MATCHING MATERIALS AS APPROVED BY THE ARCHITECT.
 - B. WHERE DEMOLITION WORK EXPOSES UNFINISHED SURFACES, PROVIDE NEW FINISHES TO MATCH ADJACENT FINISH SURFACES AS APPROVED BY ARCHITECT. NEW FINISHES ARE TO BE SUBSTANTIALLY SIMILAR IN CHARACTER AND QUALITY WITH ADJACENT FINISHES.
8. DEMOLITION WORK OF THIS CONTRACT INCLUDES INCIDENTAL REMOVAL AND/OR MODIFICATION OF MINOR FEATURES NOT SPECIFICALLY INDICATED IN THE DRAWINGS, BUT REQUIRED IN ORDER TO ACCOMMODATE THE FINISHED & FUNCTIONAL DESIGN.
9. ALL DIMENSIONS SHOWING EXISTING CONDITIONS ARE TO BE FIELD VERIFIED BY CONTRACTOR.
10. CONTRACTOR IS RESPONSIBLE FOR ALL HAZARDOUS MATERIALS TESTING AND ABATEMENT. COORDINATE ANY SUCH TEST OR ABATEMENT WITH THE OWNER.

REFERENCE NOTES

- 1 EXISTING WALL TO REMAIN (SHOWN SOLID LINE).
- 2 EXISTING WALL TO BE REMOVED (SHOWN DASHED LINE & HATCHED).
- 3 REMOVE EXISTING STAIR.
- 4 REMOVE EXISTING WOOD FLOORING DOWN TO EXISTING SLAB BELOW (FIELD VERIFY).
- 5 CUT NEW OR ENLARGE EXISTING WALL OPENING AS NEEDED TO ALLOW FOR NEW DOORS OR OTHER OPENINGS. SEE FLOOR PLANS.
- 6 REMOVE EXISTING WINDOW & FRAME (OPENING MAY BE INFILLED - SEE FLOOR PLANS FOR LOCATIONS). SALVAGE IF REQUIRED - SEE REFERENCE NOTE 11.
- 7 EXCAVATE AREA OF NEW CONSTRUCTION INFILL TO DEPTH INDICATED ON DRAWINGS. SEE BUILDING SECTIONS AND STRUCTURAL DRAWINGS FOR DETAILS.
- 8 REMOVE EXISTING CURB.
- 9 REMOVE EXISTING DOOR & FRAME (OPENING MAY BE INFILLED - SEE FLOOR PLANS FOR LOCATIONS).
- 10 REMOVE ENTIRE WOOD FRAME ADDITION AS SHOWN.
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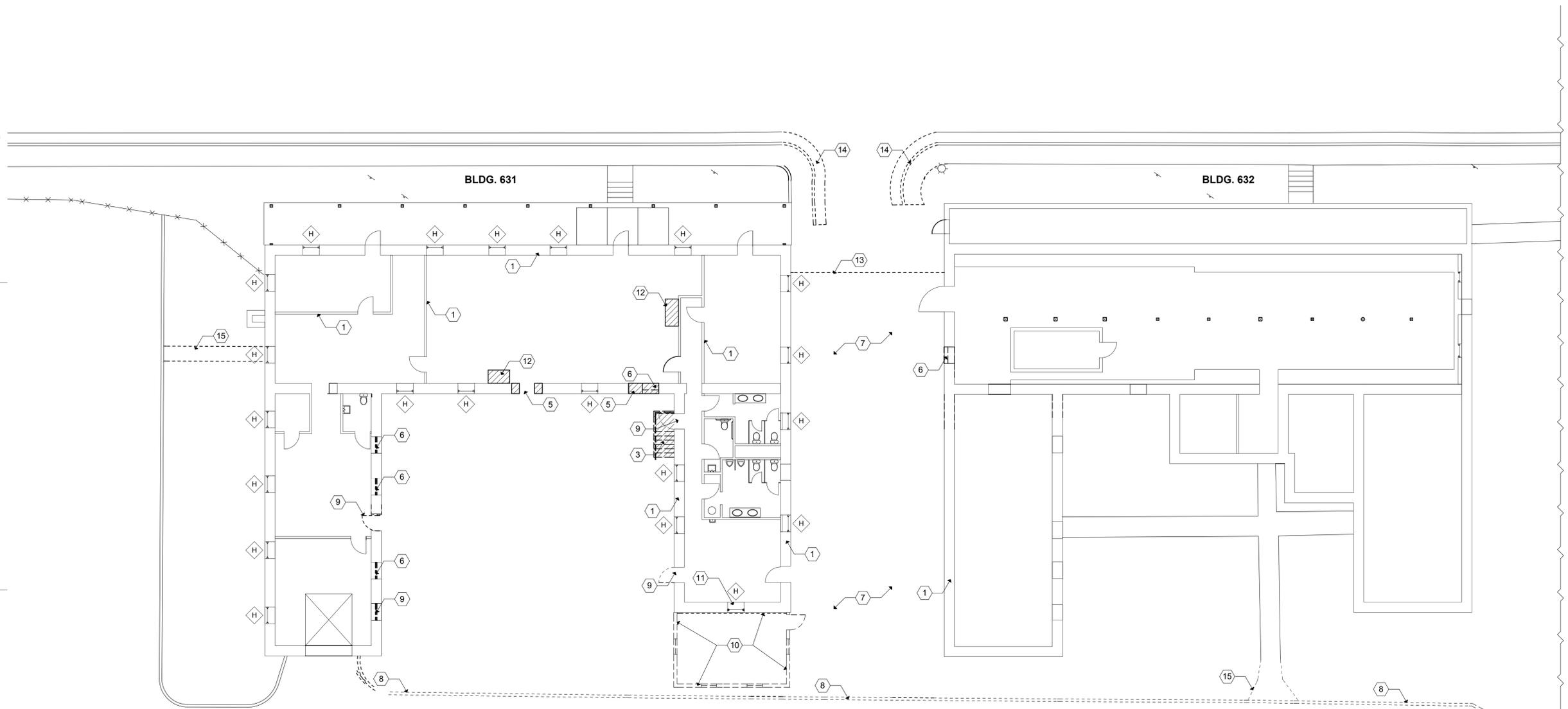
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CHECKED BY:	AAH	



**MAIN LEVEL
DEMOLITION PLAN**

AD102



A1 MAIN LEVEL DEMOLITION PLAN
3/32" = 1'-0"

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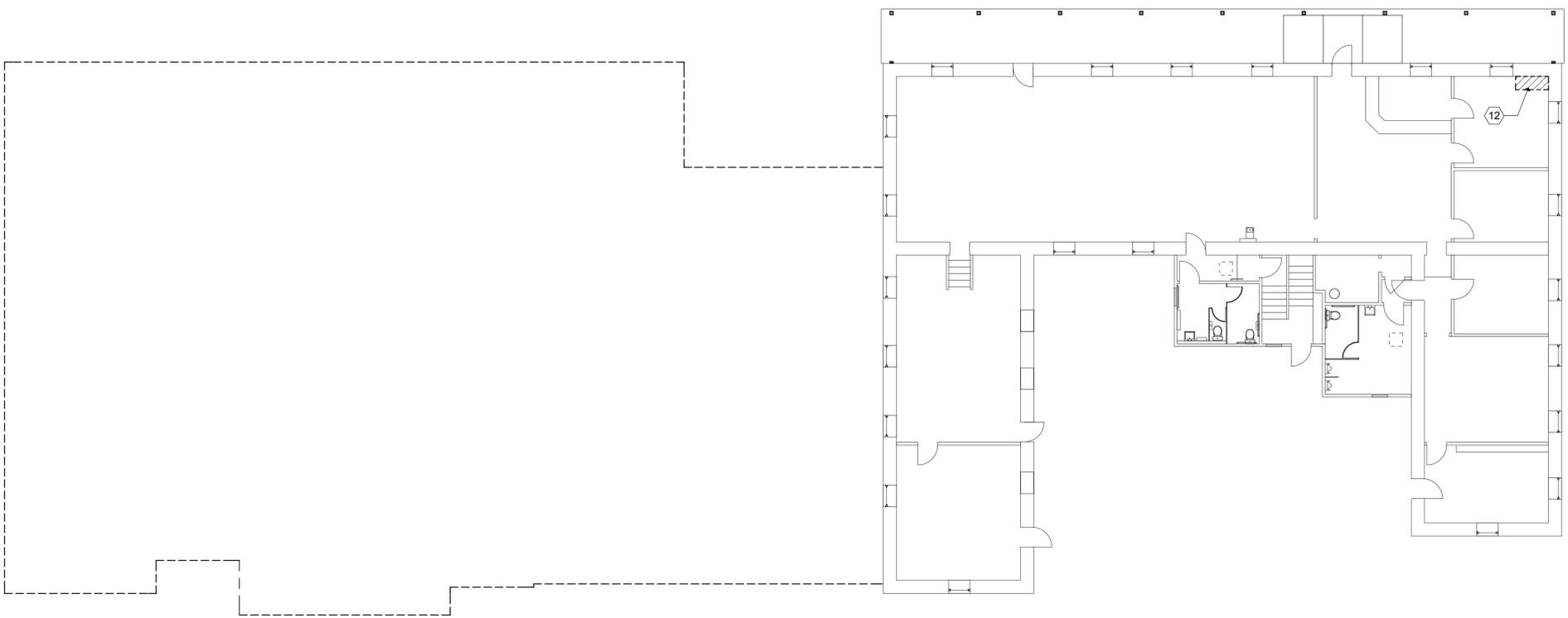
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CHECKED BY:	AAH	



**UPPER LEVEL
DEMOLITION PLAN**

AD103



(A1) UPPER LEVEL DEMOLITION PLAN
3/32" = 1'-0"

P:\B05-027 - Ft. Douglas Military Museum - AE\Drawn\Arch\04-12-06\FDM - 04.12.06.tbk

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LEGEND

- T.O.S. - TOP OF SLAB
- T.O.F. - TOP OF FOOTING
- T.O.W. - TOP OF FOUNDATION WALL
- T.O.L. - TOP OF BRICK LEDGE
(TO PROVIDE BEARING FOR STONE VENEER)

REFERENCE NOTES

- EXISTING FOUNDATION WALL - TYPICAL.
- NEW CONCRETE FOUNDATION WALL (SHOWN HATCHED) - TYPICAL.
- NEW CONCRETE FOOTING.
- NEW 4" THICK CONCRETE SLAB ON 4" COMPACTED GRAVEL FILL.
- EXISTING FOOTING (FIELD VERIFY).
- NEW CONCRETE RETAINING WALL & FOOTING.
- NEW 4" THICK CONCRETE RAMP.
- NEW 4" THICK CONCRETE SLAB ON 4" COMPACTED GRAVEL FILL. SLOPE AWAY FROM BUILDING 1/4" PER FOOT.
- PLACE NEW 4" THICK SLAB ON COMP. GRAVEL OVER EXISTING SLAB TO BRING FINISH FLOOR UP TO ELEVATION SHOWN
- FOOTING DRAIN - PERF. PIPE WRAPPED IN FILTER FABRIC IN GRAVEL FILL
- TERMINATE FOOTING DRAIN IN 3'X3'X3" GRAVEL SUMP - ENCLOSE ENTIRE SUMP IN FILTER FABRIC. LOCATE SUMP MIN. 10 FEET AWAY FROM BUILDING

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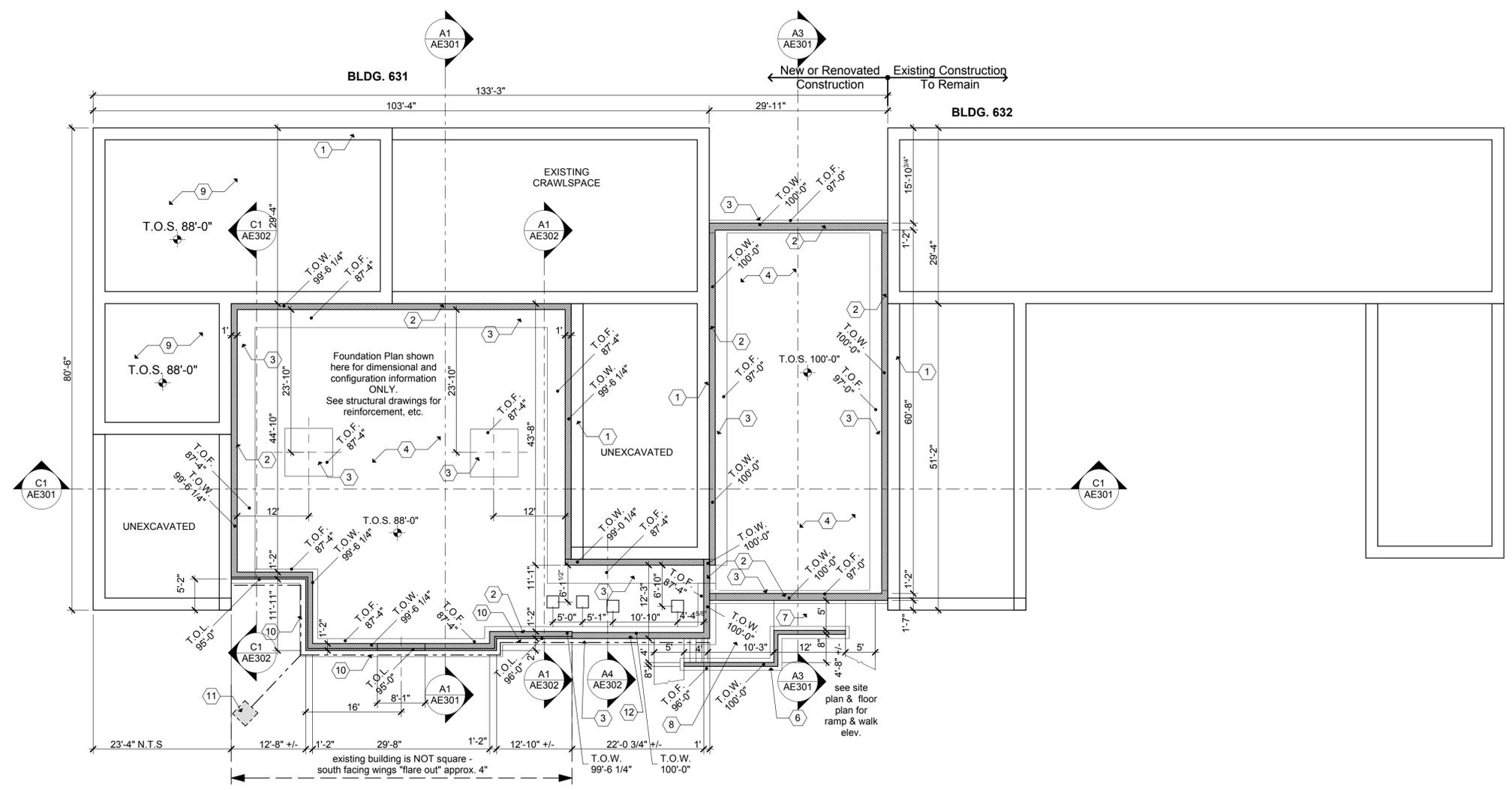
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CHECKED BY:	AAH	

FOUNDATION PLAN

AE101



A1 FOUNDATION PLAN
3/32" = 1'-0"

P:\B05-027 FT. Douglas Military Museum AE101\Arch\106\04-12-06\FDM - 04.12.06.lbk

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REFERENCE NOTES

- EXISTING WALL CONSTRUCTION - TYPICAL.
- NEW WALL CONSTRUCTION (SHOWN HATCHED) - TYPICAL. SEE WALL TYPE LEGEND/WALL DETAILS FOR SPECIFIC CONSTRUCTION.
- NEW CONCRETE WALL - UNDERPINS EXISTING WALL - COORDINATE W/ STRUCTURAL. FURR OUT W/ 1-1/2" METAL FURRING CHANNELS & 5/8" GYP. BD.
- 4" CONCRETE SLAB ON GRADE OVER COMPACTED FILL.
- NEW 4" CONCRETE SLAB ON COMPACTED FILL OVER EXISTING FLOOR SLAB.
- NEW STAIR - SEE ENLARGED STAIR PLANS.
- INFILL EXISTING WALL OPENING - SEE D1/AE502.
- NEW WALL OPENING.
- NEW CONCRETE RAMP.
- EXISTING TOILET ROOMS TO REMAIN AS IS.
- NEW MECHANICAL LOUVER IN EXISTING OPENING. INFILL REMAINING OPENING WITH STONE AS PER D1/AE502.
- UNCOVER EXISTING WINDOW OR INSTALLED SALVAGED WINDOW.
- NEW STEEL COLUMN - SEE STRUCTURAL DRAWINGS.
- NEW RECEPTION / GIFT SHOP WALLS - SEE ENLARGED FLOOR PLAN.
- 14" THICK CONC. SLAB - SLOPE AWAY FROM BLDG. 1/4" PER FOOT.
- EXISTING SPACE TO REMAIN.
- PRECAST CONCRETE WINDOW WELL.
- EXISTING POST TO REMAIN

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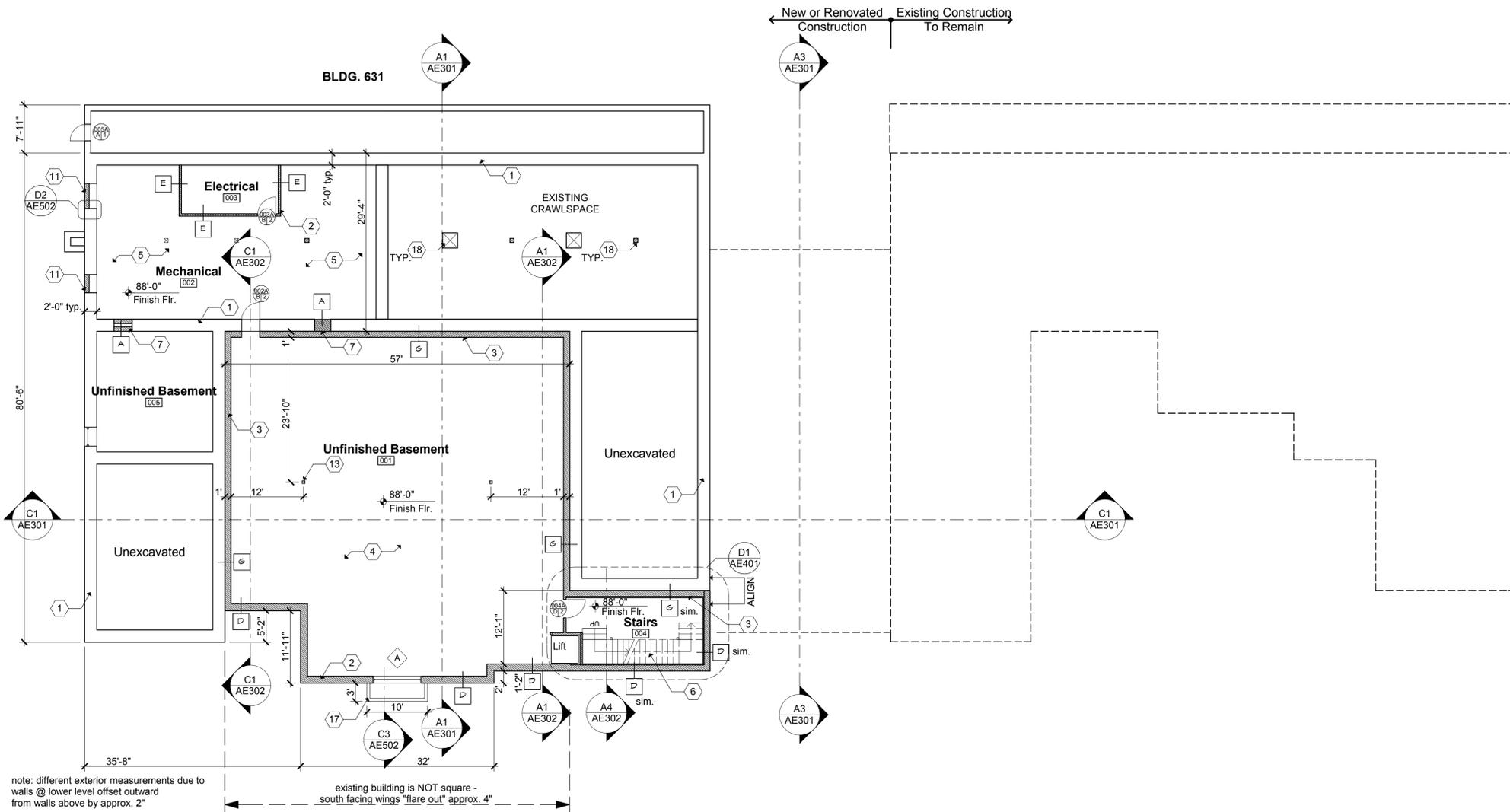
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CHECKED BY: AAH

**LOWER LEVEL
FLOOR PLAN**

AE102



A1 LOWER LEVEL FLOOR PLAN
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- NEW STAIR - SEE ENLARGED STAIR PLANS.
- INFILL EXISTING WALL OPENING - SEE D1/AE502.
- NEW WALL OPENING.
- NEW CONCRETE RAMP.
- EXISTING TOILET ROOMS TO REMAIN AS IS.
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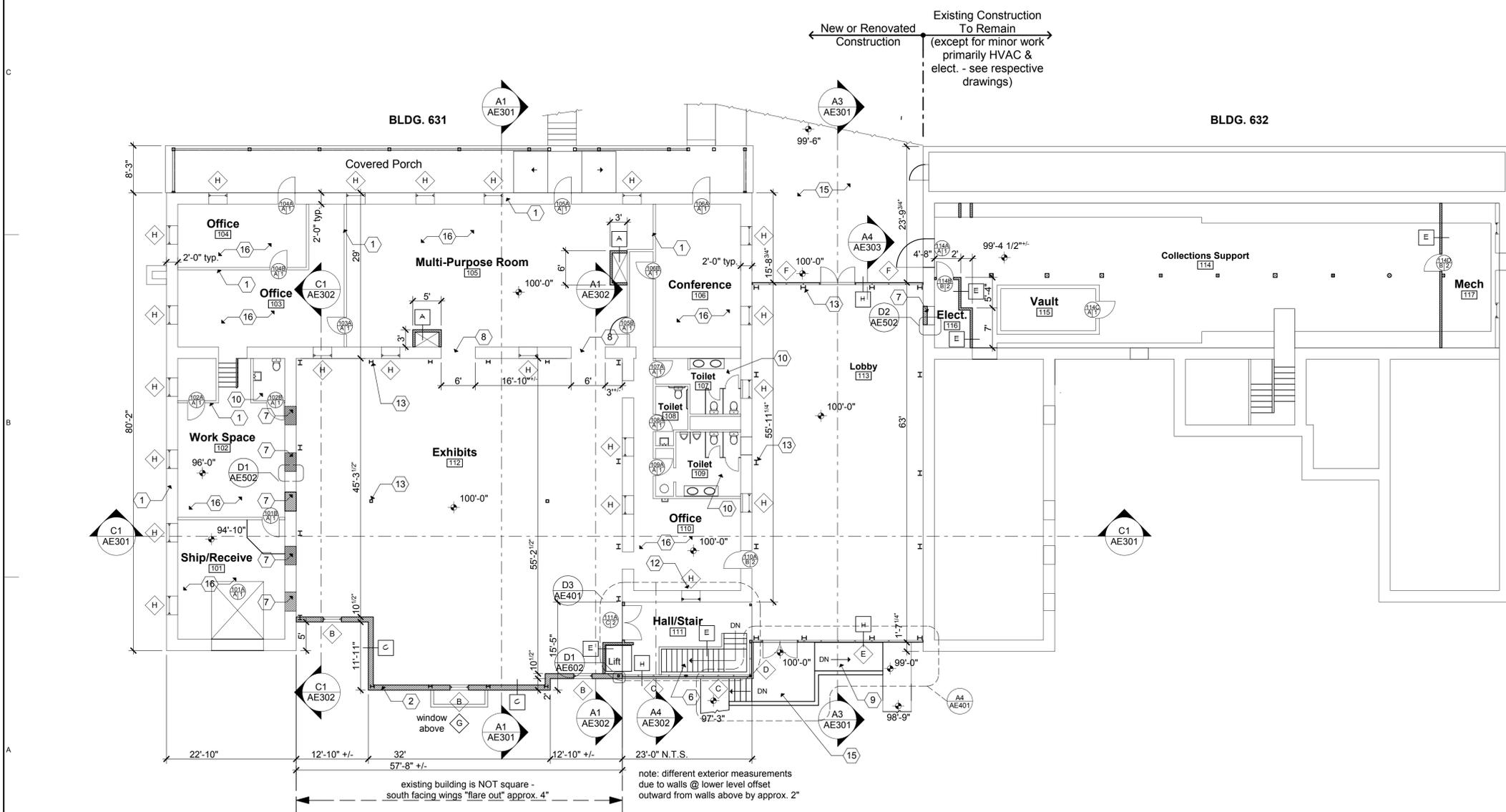
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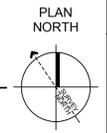
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**MAIN LEVEL FLOOR
PLAN**

AE103



A1 MAIN LEVEL FLOOR PLAN
3/32" = 1'-0"



5/14/2006 P:\B05-027 FT. Douglas Military Museum AE103.dwg 04-12-06\FDMM - 04.12.06.lsk

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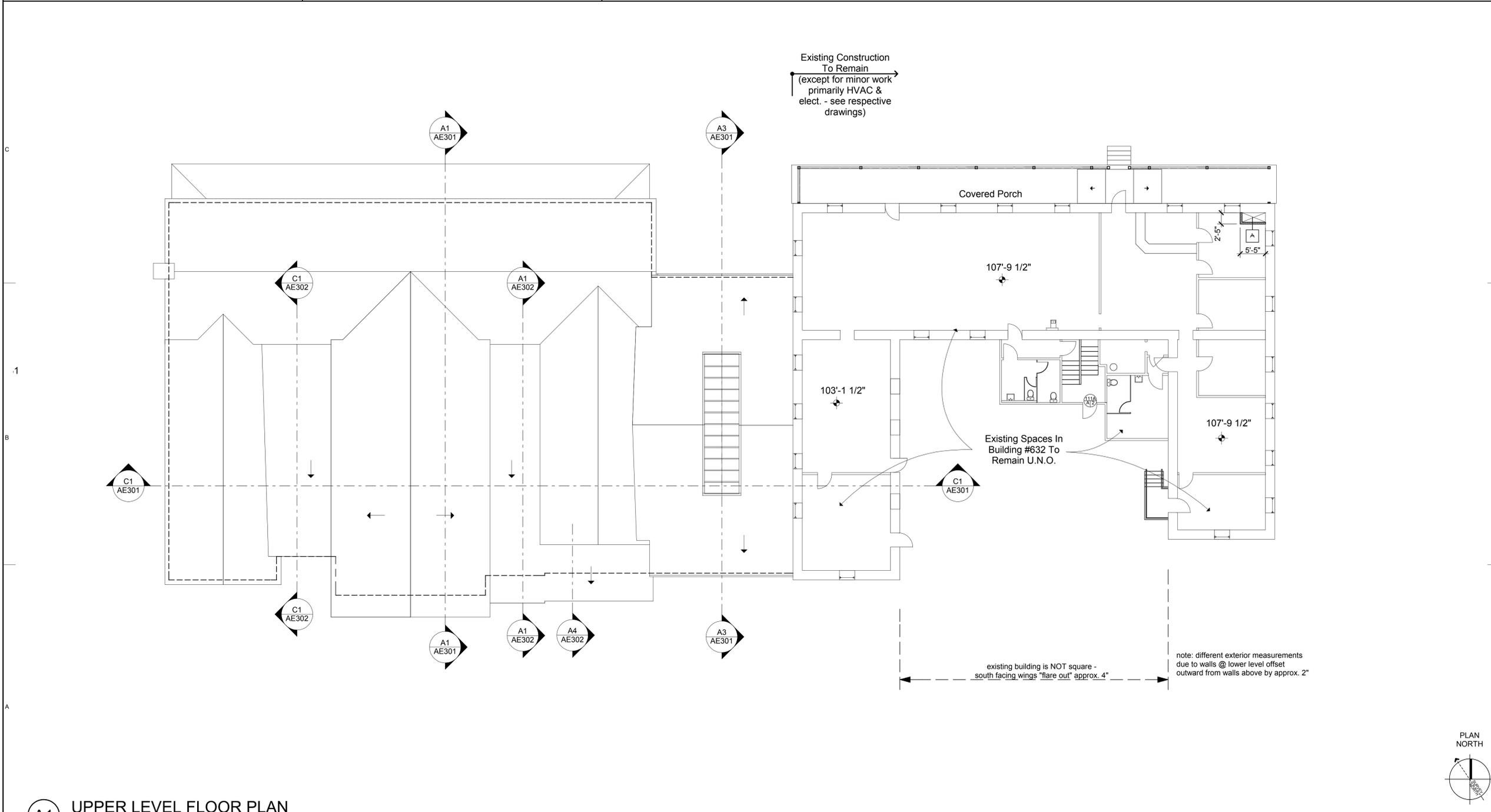
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UPPER LEVEL FLOOR PLAN

AE104



A1 UPPER LEVEL FLOOR PLAN
3/32" = 1'-0"

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- EXISTING ROOF STRUCTURE TO REMAIN. REPLACE ROOFING.
- LOW SLOPE ROOF WITH MEMBRANE ROOFING OVER NEW CONSTRUCTION.
- PITCHED ROOF (APPROX. 8:12 TO MATCH EXISTING) WITH ASPHALT SHINGLE ROOFING OVER NEW CONSTRUCTION.
- NEW SKYLIGHT UNIT.
- NEW RAINGUTTER, CONTINUOUS ALONG EAVE, TYP.
- NEW DOWNSPOUT. CONNECT TO UNDERGROUND PIPING & DAYLIGHT OUT AS SHOWN ON SITE PLAN. PROVIDE HEAT CABLE FROM GUTTER, INTO DOWNSPOUT & TERMINATE WITHIN 6" OF DAYLIGHT.
- HIGH ROOF DRAINS ONTO LOW ROOF - TYP.

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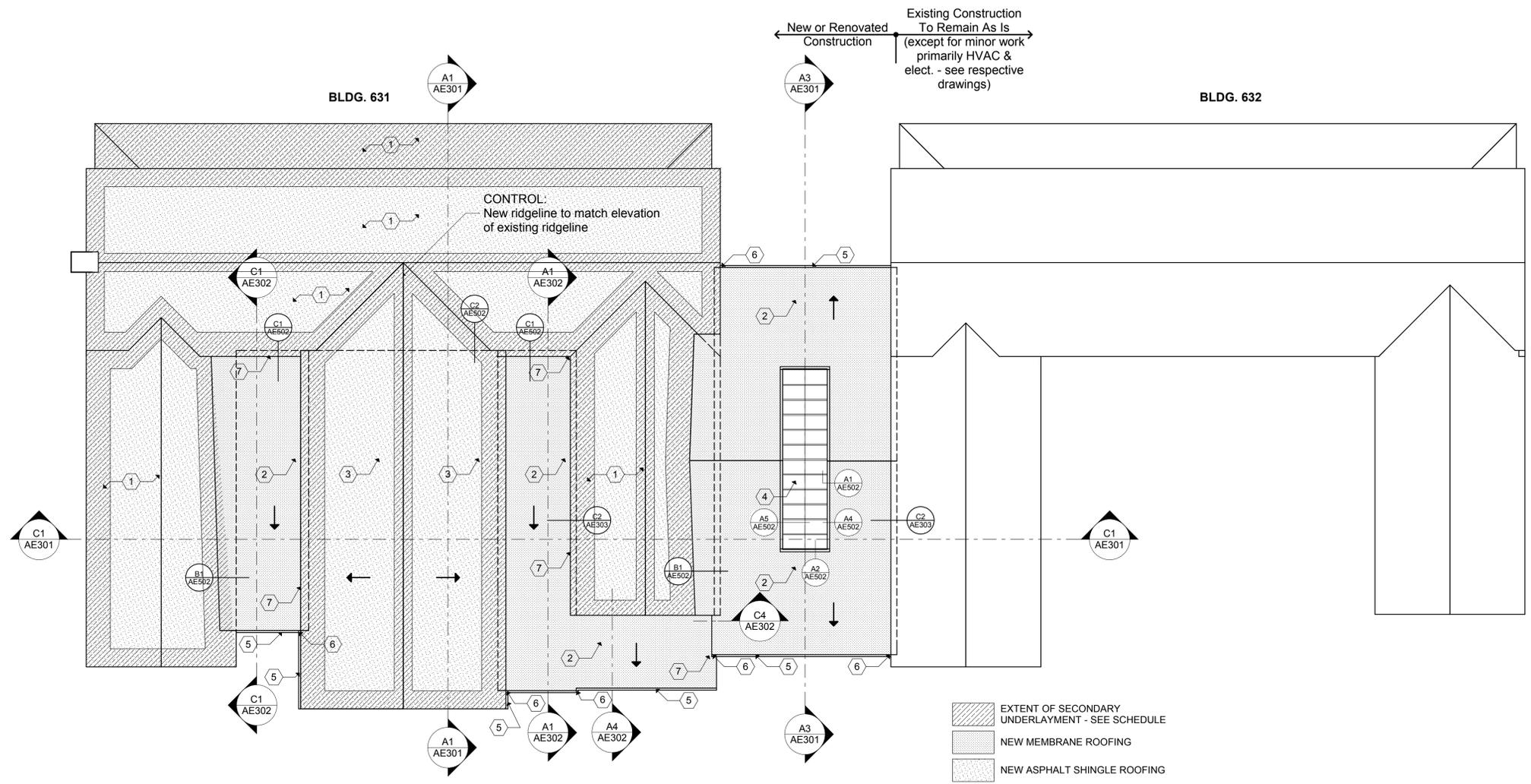
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A1 ROOF PLAN
3/32" = 1'-0"

ROOF PLAN

AE105

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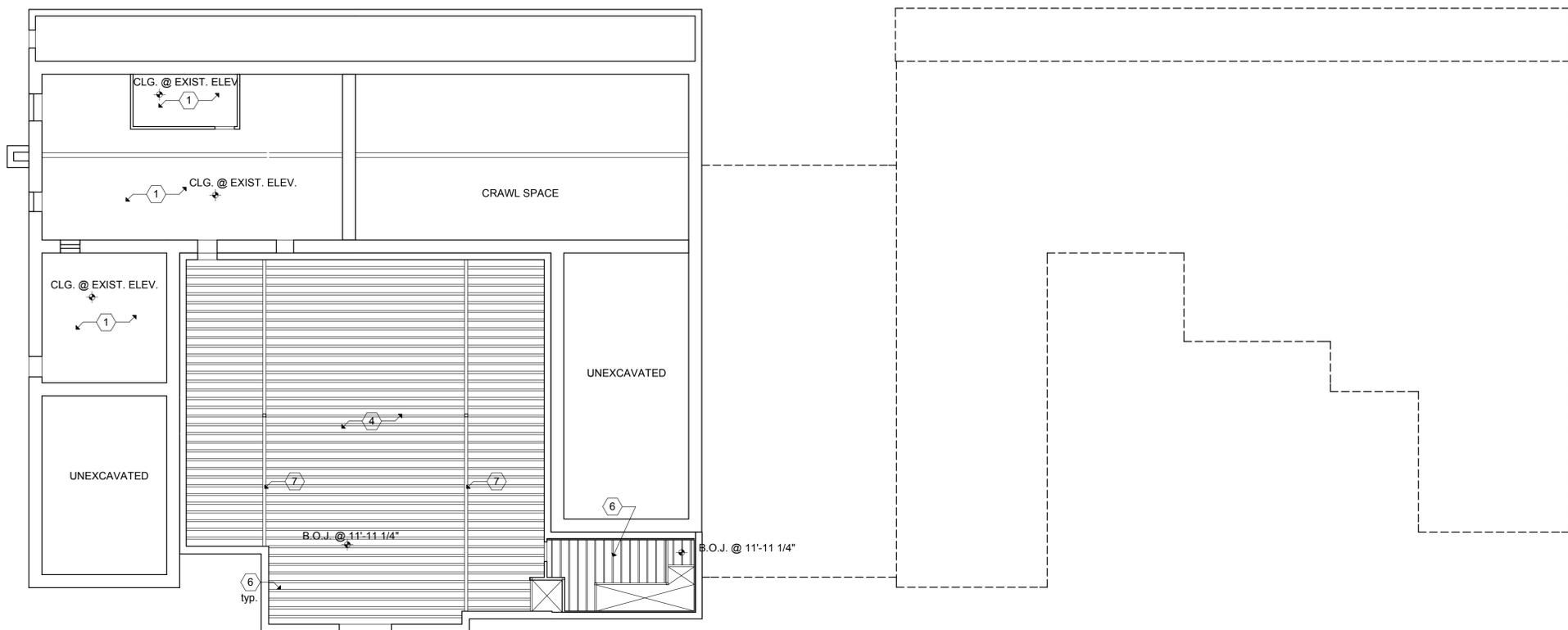
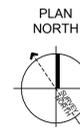
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**LOWER LEVEL
REFLECTED CEILING
PLAN**



Note:
Refer to HVAC & Electrical drawings for
diffuser, ductwork & light fixture locations

(A1) LOWER LEVEL REFLECTED CEILING PLAN

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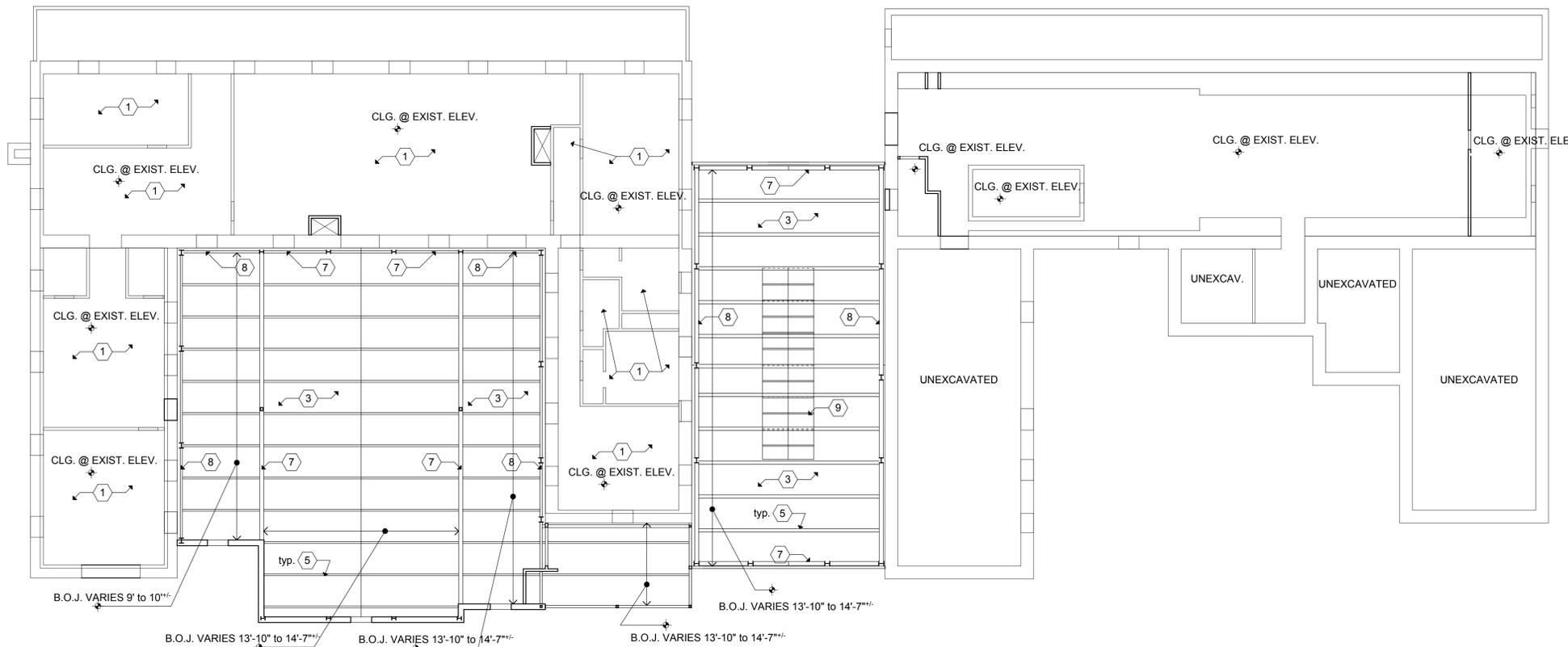
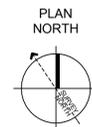
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MAIN LEVEL
REFLECTED CEILING
PLAN



Note:
Refer to HVAC & Electrical drawings for
diffuser, ductwork & light fixture locations

A1 MAIN LEVEL REFLECTED CEILING PLAN

3/32" = 1'-0"

P:\B05-027 - Ft. Douglas Military Museum - AE112.dwg - 04.12.06.ltk

GENERAL NOTES

1. AREAS OF WORK WILL BE FREE OF ALL STORED MATERIAL, CASES, EQUIPMENT, ETC. IF ITEMS REMAIN, CONTACT OWNER FOR REMOVAL.
2. ALL ITEMS ARE EXISTING TO REMAIN UNLESS NOTED OTHERWISE.
3. ALL DEMOLISHED MATERIALS ARE TO BE LEGALLY DISPOSED OF OFF SITE.
4. ALL DRAWINGS AND STRUCTURAL DESIGNS ARE BASED ON ASSUMED CONSTRUCTION CONDITIONS AS EVIDENT BY FIELD OBSERVATIONS. IF THE EXISTING CONDITIONS VARY FROM THE ASSUMED CONDITIONS PRESENT IN THIS SET OF DOCUMENTS, THE CONTRACTOR IS TO CONTACT THE ARCHITECT & STRUCTURAL ENGINEER BEFORE PROCEEDING WITH WORK.
5. CONTRACTOR IS RESPONSIBLE TO COORDINATE ALL DEMOLITION WORK WITH MECHANICAL AND ELECTRICAL TRADES. REFERENCE MECHANICAL & ELECTRICAL PLANS FOR ADDITIONAL DEMOLITION REQUIREMENTS.
6. CONTRACTOR IS RESPONSIBLE FOR ALL SHORING & BRACING REQUIRED TO SAFELY CARRY OUT THE WORK OF THIS CONTRACT.

7. WHERE ANY ITEM IS INDICATED TO BE REMOVED, WORK OF THIS CONTRACT INCLUDES PATCH & REPAIR OF ALL FINISHES DAMAGED OR OTHERWISE IMPACTED BY THIS WORK. WHETHER OR NOT SUCH REPAIR IS SPECIFICALLY IDENTIFIED IN DRAWINGS. PATCH AND REPAIR INCLUDES, BUT IS NOT LIMITED TO:
 - A. REMOVE PAINT, CAULK, FASTENERS, & OTHER RESIDUE FROM FINISH SURFACES EXPOSED BY DEMOLITION. FILL HOLES & VOIDS WITH MATCHING MATERIALS AS APPROVED BY THE ARCHITECT.
 - B. WHERE DEMOLITION WORK EXPOSES UNFINISHED SURFACES, PROVIDE NEW FINISHES TO MATCH ADJACENT FINISH SURFACES AS APPROVED BY ARCHITECT. NEW FINISHES ARE TO BE SUBSTANTIALLY SIMILAR IN CHARACTER AND QUALITY WITH ADJACENT FINISHES.
8. DEMOLITION WORK OF THIS CONTRACT INCLUDES INCIDENTAL REMOVAL AND/OR MODIFICATION OF MINOR FEATURES NOT SPECIFICALLY INDICATED IN THE DRAWINGS, BUT REQUIRED IN ORDER TO ACCOMMODATE THE FINISHED & FUNCTIONAL DESIGN.
9. ALL DIMENSIONS SHOWING EXISTING CONDITIONS ARE TO BE FIELD VERIFIED BY CONTRACTOR.
10. CONTRACTOR IS RESPONSIBLE FOR ALL HAZARDOUS MATERIALS TESTING AND ABATEMENT. COORDINATE ANY SUCH TEST OR ABATEMENT WITH THE OWNER.

REFERENCE NOTES

- 1 EXISTING CEILING - REPAIR & REPAINT. SEE FINISH SCHEDULE
- 2 NEW CEILING - 5/8" TYPE X PAINTED GYP. BD.
- 3 NEW EXPOSED STEEL ROOF DECK & ROOF TRUSSES. PAINT DECKING, TRUSSES, BEAMS, & ALL EXPOSED ITEMS.
- 4 NEW EXPOSED FLOOR SHEATHING & FLOOR JOISTS. PAINT SHEATHING, JOISTS, BEAMS, & ALL EXPOSED ITEMS.
- 5 NEW ROOF TRUSS (PAINTED).
- 6 NEW FLOOR JOIST (PAINTED).
- 7 NEW STEEL BEAM (PAINTED).
- 8 NEW SLOPING STEEL BEAM (PAINTED).
- 9 NEW SKYLIGHT ABOVE TRUSSES.

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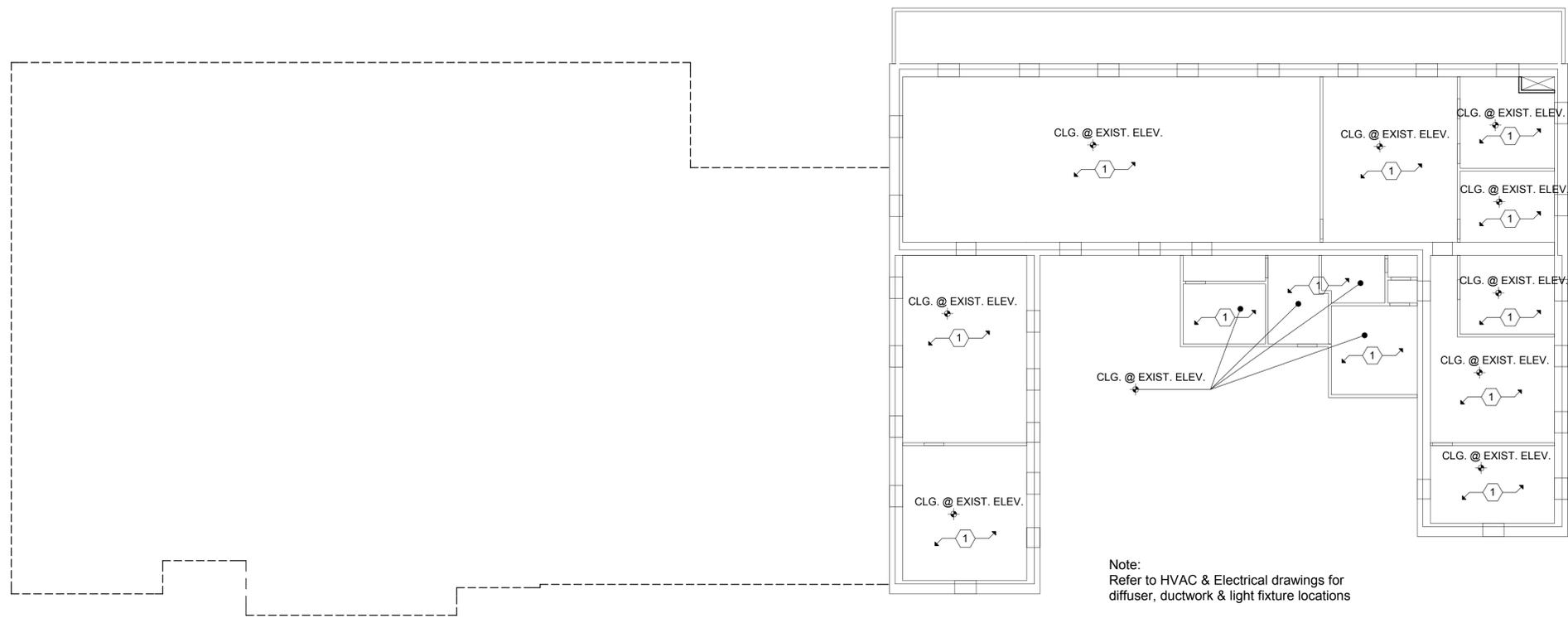
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BID		
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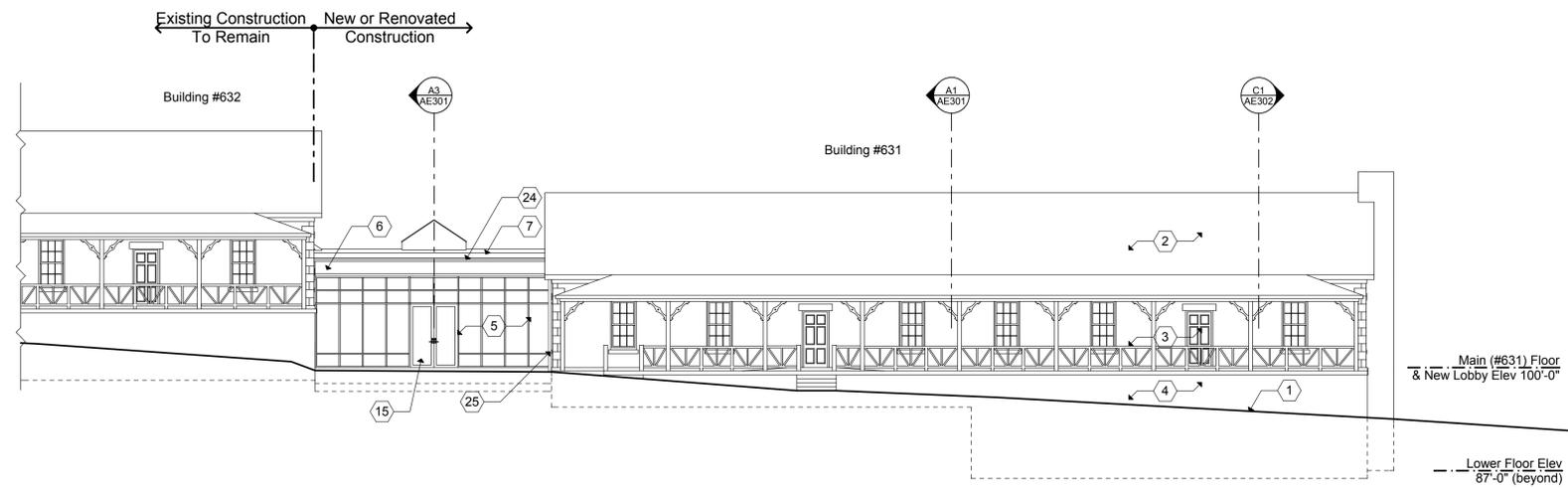
**UPPER LEVEL
REFLECTED CEILING
PLAN**

AE113



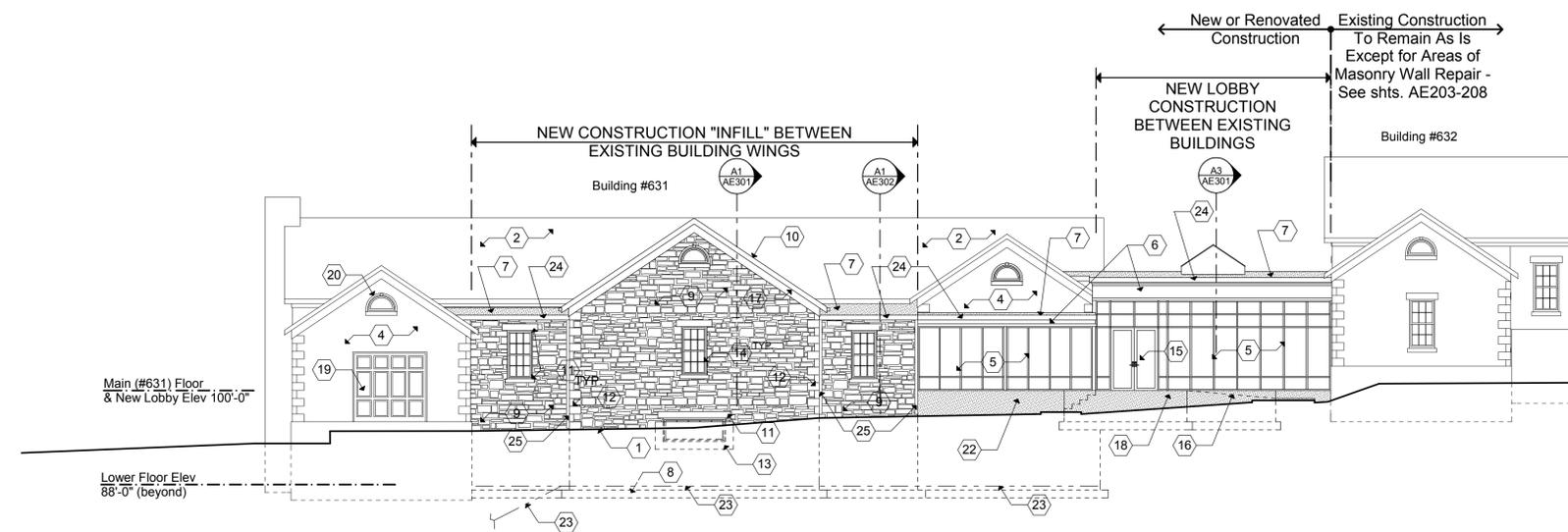
(A1) UPPER LEVEL REFLECTED CEILING PLAN
3/32" = 1'-0"

P:\B05-027 FT. Douglas Military Museum AE113.dwg - 04.12.06.ltk



REFER TO MASONRY RESTORATION DRWGS(AE203-208)
FOR DETAILS SEE MASONRY REPAIR, ETC.

C1 NORTH ELEVATION
3/32" = 1'-0"



A1 SOUTH ELEVATION
3/32" = 1'-0"

REFERENCE NOTES

- 1 EXISTING GRADE.
- 2 EXISTING ROOF STRUCTURE TO RECEIVE NEW ROOFING
- 3 EXISTING PORCH, RAILING, FASCIA, SOFFIT, ETC. TO REMAIN
- 4 EXISTING MASONRY WALL - SEE MASONRY RESTORATION DRAWINGS FOR FURTHER INFORMATION.
- 5 STOREFRONT GLAZING SYSTEM
- 6 PREFINISHED METAL FASCIA.
- 7 NEW LOW SLOPE ROOF WITH MEMBRANE ROOFING
- 8 LINE OF NEW FOUNDATION
- 9 NEW WALL CONSTRUCTION WITH MASONRY VENEER SIMILAR TO EXISTING.
- 10 NEW PITCHED ROOF (APPROX. 8:12 TO MATCH EXISTING) WITH ASPHALT SHINGLES.
- 11 NEW SANDSTONE LINTEL OR SILL TO MATCH EXISTING.
- 12 NEW SANDSTONE QUOINS, SIMILAR TO EXISTING.
- 13 PRECAST WINDOW WELL.
- 14 NEW WINDOW
- 15 NEW DOOR
- 16 LINE OF NEW RAMP (BEYOND)
- 17 PAINTED WOOD FASCIA TO MATCH EXISTING
- 18 NEW CONCRETE WALL
- 19 EXISTING OVERHEAD DOOR TO REMAIN.
- 20 REPAINT EXISTING TRIM @ WINDOWS & DOORS, FASCIA, SOFFIT, ETC. - EXCLUDING NORTH FACING PORCHES, POSTS, SOFFITS & RAILINGS WHICH SHALL REMAIN WITHOUT REFINISHING.
- 21 NEW MECHANICAL LOUVER & STONE INFILL IN EXISTING WALL OPENING.
- 22 CEMENT PLASTER FINISH - TYP. @ EXPOSED FDN. WALL.
- 23 FOOTING DRAIN - SEE AS101
- 24 NEW RAINGUTTER, CONTINUOUS ALONG EAVE.
- 25 NEW DOWNSPOUT W/ HEAT CABLE - CONNECT TO UNDERGROUND PIPING & DAYLIGHT AS SHOWN ON SITE PLAN.

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DRAWN BY:	DR	
CHECKED BY:	AAH	

**EXTERIOR
ELEVATIONS**

AE201

P:\B05-027 FT. Douglas Military Museum AE201\Arch\Exh\04-12-06\FDMM - 04.12.06.lbk
5/14/2006

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5/14/2006

REFERENCE NOTES

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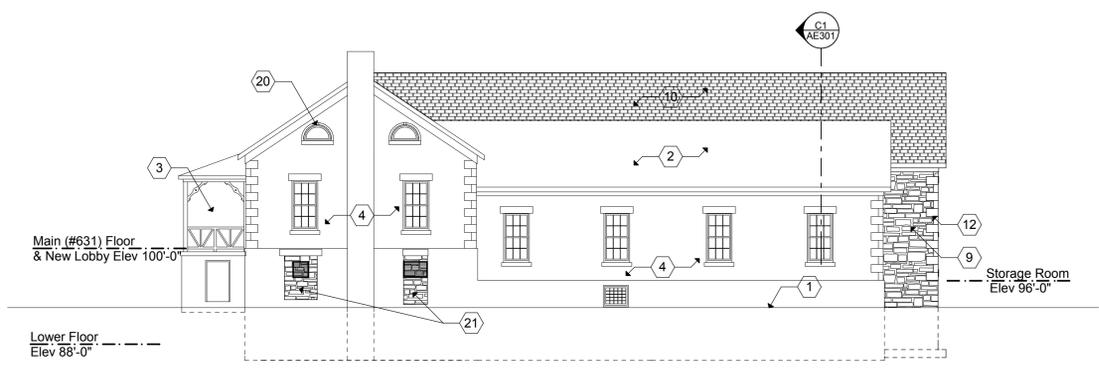
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DRAWN BY:	DR	
CHECKED BY:	AAH	

EXTERIOR ELEVATION

AE202



A1 WEST ELEVATION

3/32" = 1'-0"

GENERAL NOTES

- A. CLEAN AND TUCKPOINT APPROXIMATELY xx % OF EXTERIOR BRICKWORK AS IDENTIFIED BY THE ARCHITECT.
- B. REMOVE NON-ORIGINAL, NON-FUNCTIONAL WIRES, CONDUIT, PIPES, BRACKETS, CABLES, SCREENS, NAILS, SCREWS, ETC. FILL HOLES WITH MORTAR OF MATCHING COLOR AND TEXTURE. MORTAR MIX TO BE APPROVED BY THE ARCHITECT PRIOR TO APPLICATION.
- C. REPAINT ALL WOOD WINDOW SILLS AND FRAMES PER PAINT SCHEDULE.
- D. SEPARATION BETWEEN MOST BRICK OPENINGS AND WOOD WINDOW FRAMES, RESEAL WHERE NECESSARY.
- E. SEE WINDOW SCHEDULE FOR WORK ON WINDOWS.
- F. REMOVE INAPPROPRIATE NON-MATCHING PORTLAND CEMENT PATCHES IN BRICK AND REPAIR USING APPROPRIATE LIME BASED MORTAR MATCHING COLOR AND TEXTURE OF ORIGINAL PER ARCHITECTS INSTRUCTIONS.
- G. REMOVE INAPPROPRIATE NON-MATCHING STONE AND REPLACE WITH BRICK SELECTED BY ARCHITECT.

REFERENCE NOTES

- 1. MORTAR DETERIORATION. REPOINT WITH APPROPRIATE LIME MORTAR MATCHING ORIGINAL COLOR AND TEXTURE PER ARCHITECTS INSTRUCTIONS
- 2. SPORADIC MOSS/LICHEN GROWTH ON MORTAR AND STONE SURFACES. CLEAN WITH LOW PRESSURE MISTING NEBULIZED WATER. USE NATURAL BRISTLE BRUSHES AND NON-IONIC DETERGENT ONLY AS NECESSARY PER ARCHITECTS INSTRUCTIONS. REPOINT AS NECESSARY WITH APPROPRIATE LIME MORTAR.
- 3. INAPPROPRIATE MORTAR. REPOINT WITH APPROPRIATE LIME MORTAR MATCHING ORIGINAL COLOR AND TEXTURE.
- 4. STAINED STONE. CLEAN WITH LOW PRESSURE MISTING NEBULIZED WATER. USE NATURAL BRISTLE BRUSHES AND NON-IONIC DETERGENT ONLY AS NECESSARY.
- 5. PAINT SPLASH/OVERSPRAY. REMOVE USING LOW PRESSURE MISTING NEBULIZED WATER. USE NATURAL BRISTLE BRUSHES AND NON-IONIC DETERGENT ONLY AS NECESSARY.
- 6. SETTLEMENT CRACK. REPAIR/REPLACE DAMAGED STONE IF NECESSARY AND REPOINT WITH APPROPRIATE LIME MORTAR OF MATCHING COLOR AND TEXTURE AS NECESSARY. MORTAR MIX TO BE APPROVED BY THE ARCHITECT PRIOR TO APPLICATION.
- 7. PARTIAL OR MISSING STONE. USE SELECTIVE DUTCHMAN REPLACEMENT OR TOTAL REPLACEMENT OF STONE MATCHING ORIGINAL TEXTURE AND COLOR AS NECESSARY.
- 8. SPALLING STONE. FOR MODERATE DAMAGE OR SPALLING REPAIR WITH APPROPRIATE LIME MORTAR MATCHING ORIGINAL STONE OR RETOOL STONE IN PLACE AS NECESSARY. FOR EXTENSIVE DAMAGE EITHER RETOOL IN PLACE OR USE SELECTIVE DUTCHMAN REPLACEMENT OR TOTAL REPLACEMENT OF STONE MATCHING ORIGINAL TEXTURE AND COLOR AS NECESSARY.
- 9. DAMAGED STONE. FOR MODERATE DAMAGE OR SPALLING REPAIR WITH APPROPRIATE LIME MORTAR MATCHING ORIGINAL STONE OR RETOOL STONE IN PLACE AS NECESSARY. FOR EXTENSIVE DAMAGE EITHER RETOOL IN PLACE OR USE SELECTIVE DUTCHMAN REPLACEMENT OR TOTAL REPLACEMENT OF STONE MATCHING ORIGINAL TEXTURE AND COLOR AS NECESSARY.
- 10. GHOST LINES. KEEP INTACT.
- 11. EXPOSED UTILITIES. REMOVE NON-ORIGINAL, NON-FUNCTIONAL UTILITIES OR INAPPROPRIATE UTILITIES. FILL VOIDS WITH MORTAR OF MATCHING COLOR AND TEXTURE OR REPLACE STONE AS NECESSARY. MORTAR MIX TO BE APPROVED BY THE ARCHITECT PRIOR TO APPLICATION.
- 12. NON-FUNCTIONAL EXTERIOR HARDWARE ETC. REMOVE AND REPAIR VOIDS WITH MORTAR OF MATCHING COLOR AND TEXTURE. MORTAR MIX TO BE APPROVED BY THE ARCHITECT PRIOR TO APPLICATION.
- 13. SEE DEMO PLANS
- 14. WATER DAMAGE. CLEAN WITH LOW PRESSURE MISTING NEBULIZED WATER. USE NATURAL BRISTLE BRUSHES AND NON-IONIC DETERGENT ONLY AS NECESSARY.
- 15. REMOVE SIGN AND ASSOCIATED HARDWARE.
- 16. REMOVE LIGHT FIXTURE AND ASSOCIATED HARDWARE AND ELECTRICAL WIRING BACK TO SOURCE. REPAIR DAMAGED STONE AND MORTAR AND REPOINT WITH APPROPRIATE LIME MORTAR AS NECESSARY. MORTAR MIX TO BE APPROVED BY THE ARCHITECT PRIOR TO APPLICATION.
- 17. REMOVE PLYWOOD PATCH.
- 18. REMOVE NON-ORIGINAL METAL SCREEN
- 19. REMOVE NON-ORIGINAL METAL BARS
- 20. REMOVE EXPOSED HARDWARE. REMOVE AND REPAIR VOIDS WITH MORTAR OF MATCHING COLOR AND TEXTURE. MORTAR MIX TO BE APPROVED BY THE ARCHITECT PRIOR TO APPLICATION.
- 21. REMOVE VINE/VEGETATION CAREFULLY AVOIDING DAMAGE TO STONE AND MORTAR. REPAIR/REPLACE DAMAGED STONE AS NECESSARY, REPOINT WITH APPROPRIATE LIME MORTAR AS NECESSARY.
- 22. KNOB AND TUBE WIRING. KEEP INTACT.
- 23. REMOVE INAPPROPRIATE AND NON-FUNCTIONAL DOWNSPOUTS AND GUTTERS.
- 24. REMOVE NON-ORIGINAL STEEL, CONCRETE AND WOOD MATERIAL. REPAIR WITH MATERIAL MATCHING ORIGINAL STONE AND MORTAR. RELOCATE DOOR AND FRAME TO ORIGINAL LOCATION.

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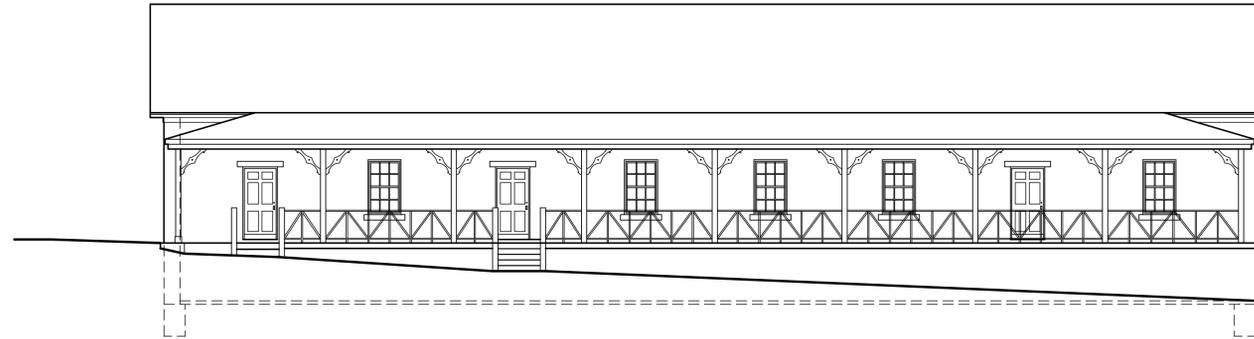
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DD	-	-	-

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CAD DWG FILE: ae203.dwg
DRAWN BY: SC
CHECKED BY: AH

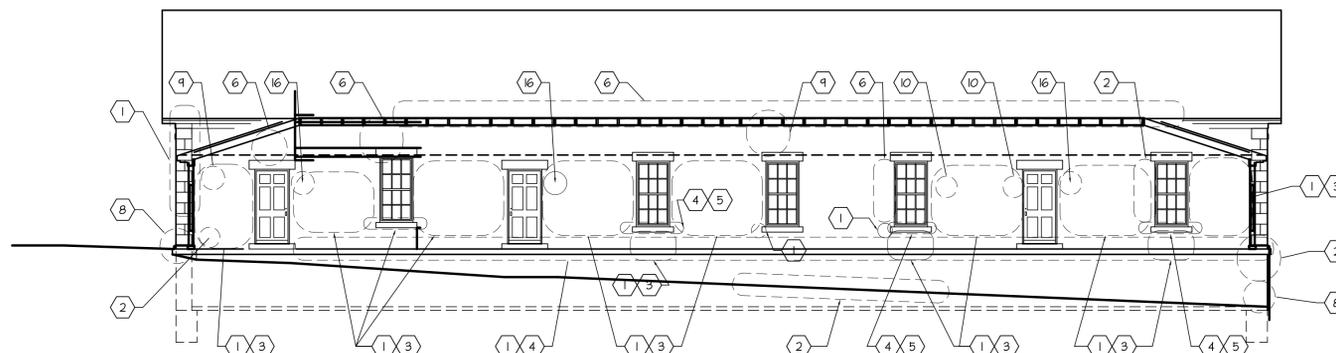
631 NORTH
MASONRY
RESTORATION
ELEVATIONS

AE203

SHEET # OF #



CI 631 NORTH
SCALE: 1/8" = 1'-0"



AI 631 NORTH - PORCH NOT SHOWN FOR CLARITY
SCALE: 1/8" = 1'-0"

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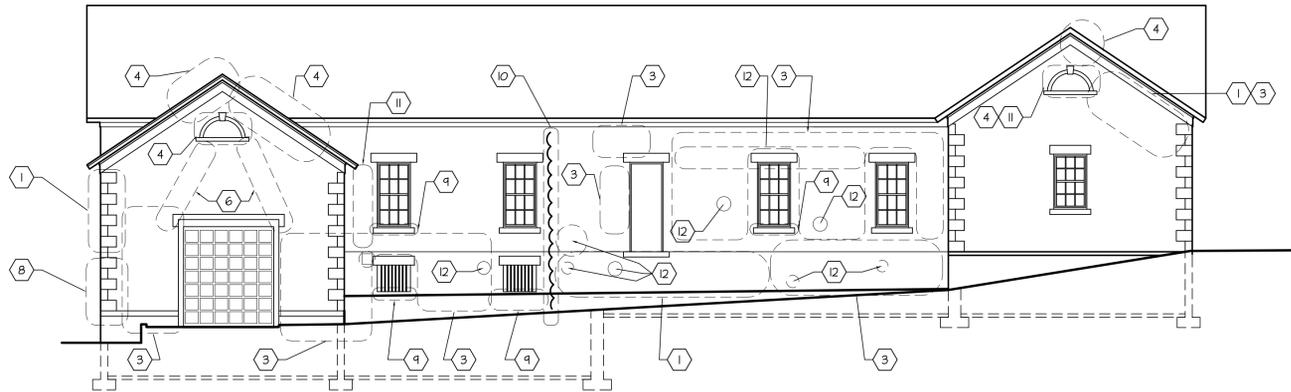
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GENERAL NOTES

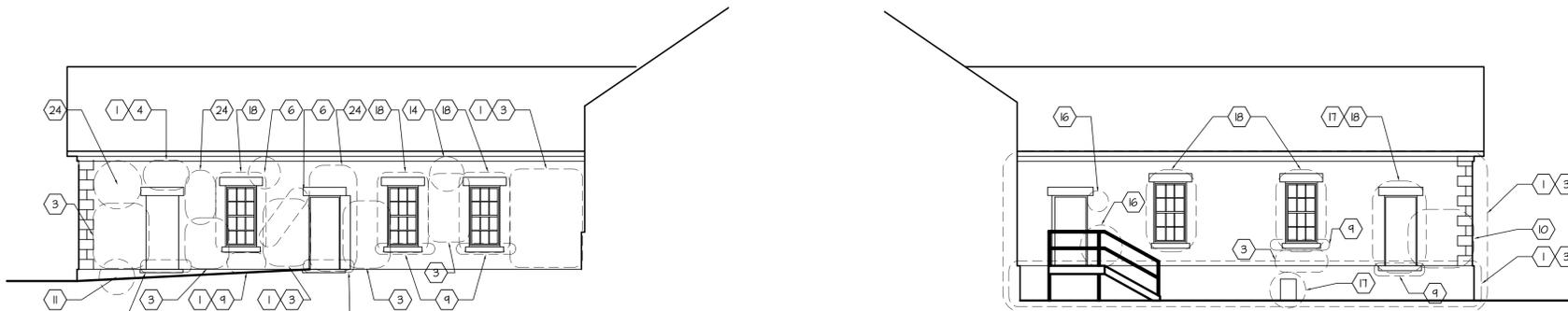
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- 16. REMOVE LIGHT FIXTURE AND ASSOCIATED HARDWARE AND ELECTRICAL WIRING BACK TO SOURCE. REPAIR DAMAGED STONE AND MORTAR AND REPOINT WITH APPROPRIATE LIME MORTAR AS NECESSARY. MORTAR MIX TO BE APPROVED BY THE ARCHITECT PRIOR TO APPLICATION.
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- 21. REMOVE VINE/VEGETATION CAREFULLY AVOIDING DAMAGE TO STONE AND MORTAR. REPAIR/REPLACE DAMAGED STONE AS NECESSARY, REPOINT WITH APPROPRIATE LIME MORTAR AS NECESSARY.
- 22. KNOB AND TUBE WIRING. KEEP INTACT.
- 23. REMOVE INAPPROPRIATE AND NON-FUNCTIONAL DOWNSPOUTS AND GUTTERS.
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C1 631 SOUTH
SCALE: 1/8" = 1'-0"



A1 631 EAST INTERIOR
SCALE: 1/8" = 1'-0"

A3 631 WEST INTERIOR
SCALE: 1/8" = 1'-0"

AA	-	-	-
AB	-	-	-
AC	-	-	-
AD	-	-	-
AE	-	-	-

PROJECT NO: B05-027
CAD DWG FILE: ae204.dwg
DRAWN BY: SC
CHECKED BY: AH

631 SOUTH
MASONRY
RESTORATION
ELEVATIONS

AE204
SHEET # OF #

GENERAL NOTES

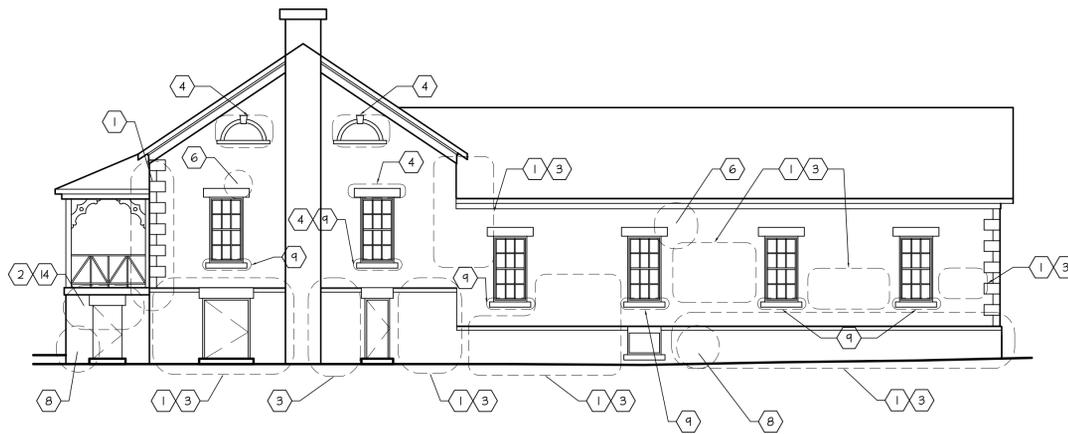
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- C. REPAINT ALL WOOD WINDOW SILLS AND FRAMES PER PAINT SCHEDULE.
- D. SEPARATION BETWEEN MOST BRICK OPENINGS AND WOOD WINDOW FRAMES, RESEAL WHERE NECESSARY.
- E. SEE WINDOW SCHEDULE FOR WORK ON WINDOWS.
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- G. REMOVE INAPPROPRIATE NON-MATCHING STONE AND REPLACE WITH BRICK SELECTED BY ARCHITECT.

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C1 631 EAST EXTERIOR
SCALE: 1/8" = 1'-0"



A1 631 WEST FACADE EXTERIOR
SCALE: 1/8" = 1'-0"

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FORT DOUGLAS, UT 84113

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AE	-	-	-

PROJECT NO: B05-027
CAD DWG FILE: ae205.dwg
DRAWN BY: SC
CHECKED BY: AH

631 EAST WEST
MASONRY
RESTORATION
ELEVATIONS

AE205

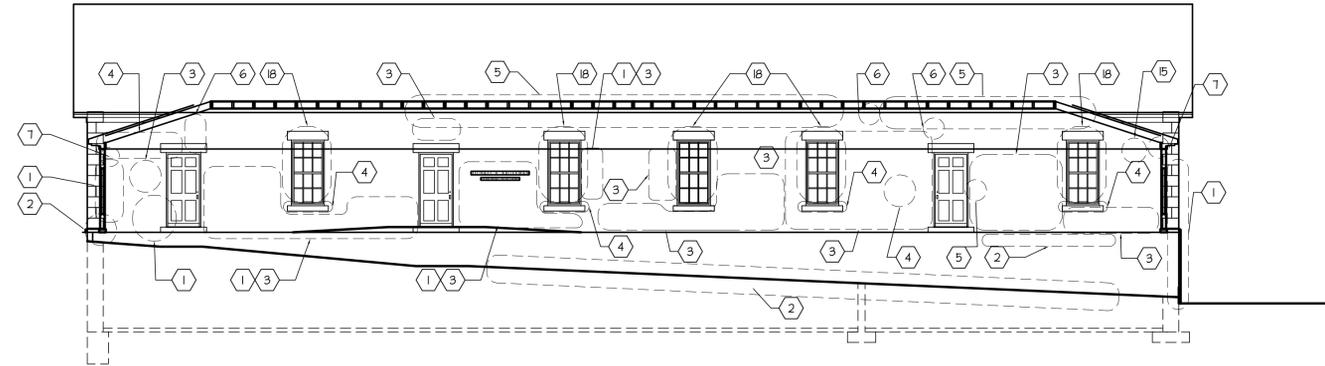
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GENERAL NOTES

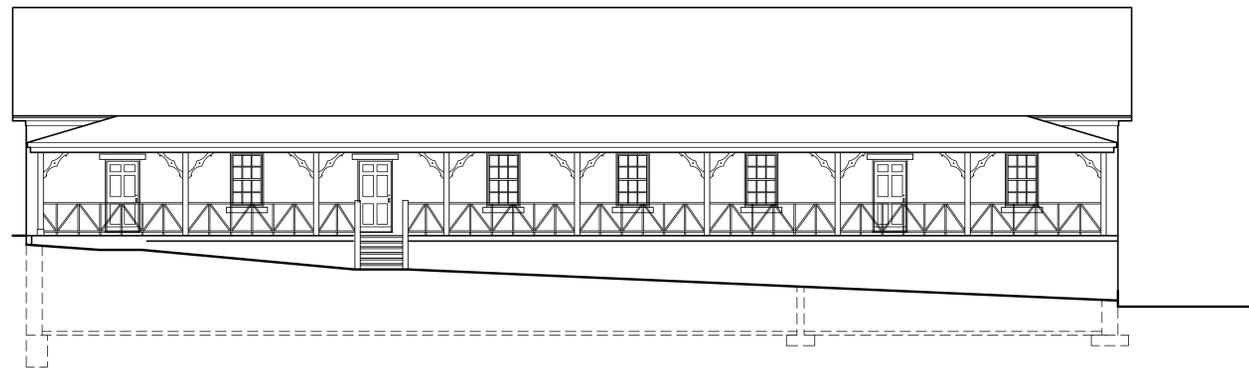
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C1 632 NORTH - PORCH NOT SHOWN FOR CLARITY
SCALE: 1/8" = 1'-0"



A1 632 NORTH
SCALE: 1/8" = 1'-0"

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PROJECT NO: B05-027
CAD DWG FILE: ae206.dwg
DRAWN BY: SC
CHECKED BY: AH

**632 NORTH
MASONRY
RESTORATION
ELEVATIONS**

AE206

SHEET # OF #

GENERAL NOTES

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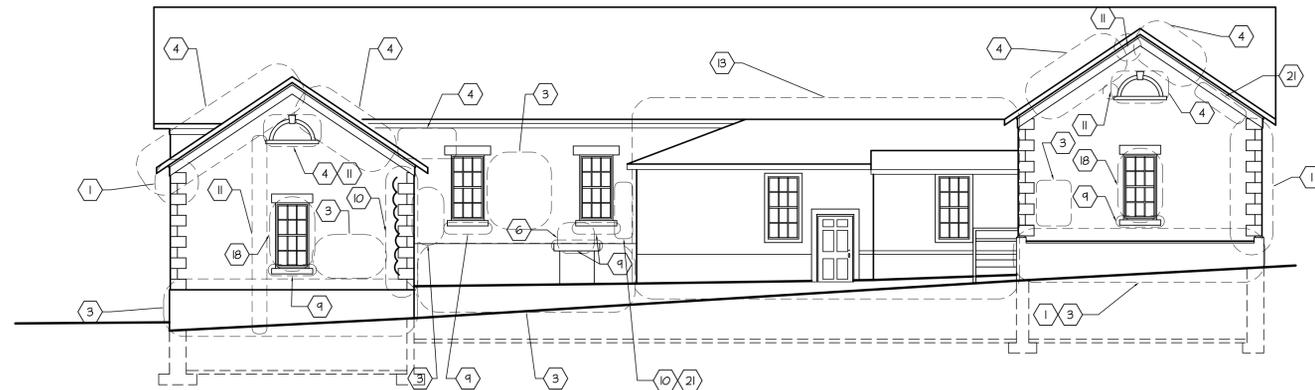
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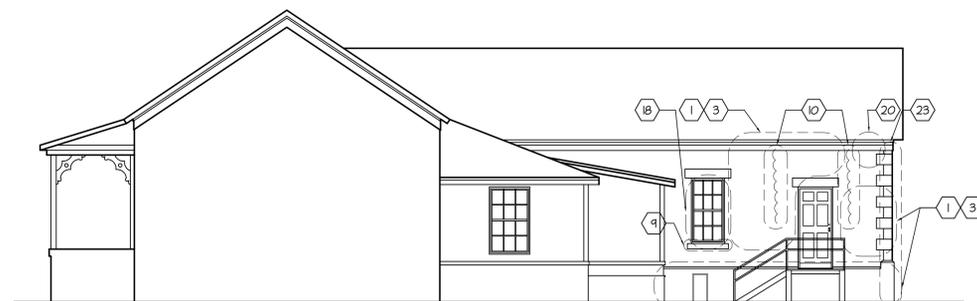
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AE207

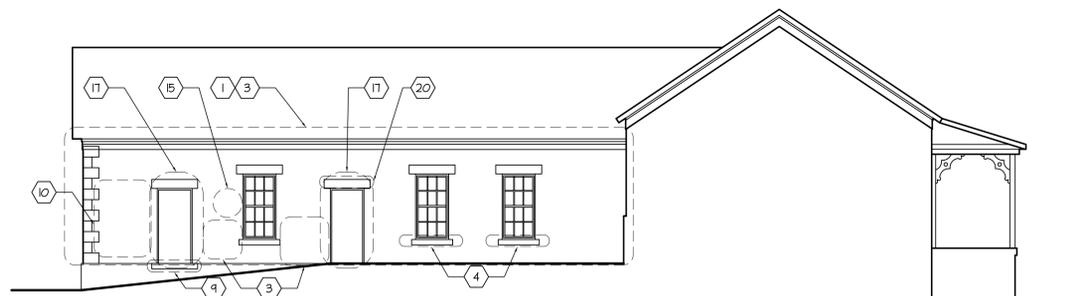
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C1 632 SOUTH
SCALE: 1/8" = 1'-0"



B1 632 EAST INTERIOR
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- 6. SETTLEMENT CRACK. REPAIR/REPLACE DAMAGED STONE IF NECESSARY AND REPOINT WITH APPROPRIATE LIME MORTAR OF MATCHING COLOR AND TEXTURE AS NECESSARY. MORTAR MIX TO BE APPROVED BY THE ARCHITECT PRIOR TO APPLICATION.
- 7. PARTIAL OR MISSING STONE. USE SELECTIVE DUTCHMAN REPLACEMENT OR TOTAL REPLACEMENT OF STONE MATCHING ORIGINAL TEXTURE AND COLOR AS NECESSARY.
- 8. SPALLING STONE. FOR MODERATE DAMAGE OR SPALLING REPAIR WITH APPROPRIATE LIME MORTAR MATCHING ORIGINAL STONE OR RETOOL STONE IN PLACE AS NECESSARY. FOR EXTENSIVE DAMAGE EITHER RETOOL IN PLACE OR USE SELECTIVE DUTCHMAN REPLACEMENT OR TOTAL REPLACEMENT OF STONE MATCHING ORIGINAL TEXTURE AND COLOR AS NECESSARY.
- 9. DAMAGED STONE. FOR MODERATE DAMAGE OR SPALLING REPAIR WITH APPROPRIATE LIME MORTAR MATCHING ORIGINAL STONE OR RETOOL STONE IN PLACE AS NECESSARY. FOR EXTENSIVE DAMAGE EITHER RETOOL IN PLACE OR USE SELECTIVE DUTCHMAN REPLACEMENT OR TOTAL REPLACEMENT OF STONE MATCHING ORIGINAL TEXTURE AND COLOR AS NECESSARY.
- 10. GHOST LINES. KEEP INTACT.
- 11. EXPOSED UTILITIES. REMOVE NON-ORIGINAL, NON-FUNCTIONAL UTILITIES OR INAPPROPRIATE UTILITIES. FILL VOIDS WITH MORTAR OF MATCHING COLOR AND TEXTURE OR REPLACE STONE AS NECESSARY. MORTAR MIX TO BE APPROVED BY THE ARCHITECT PRIOR TO APPLICATION.
- 12. NON-FUNCTIONAL EXTERIOR HARDWARE, ETC. REMOVE AND REPAIR VOIDS WITH MORTAR OF MATCHING COLOR AND TEXTURE. MORTAR MIX TO BE APPROVED BY THE ARCHITECT PRIOR TO APPLICATION.
- 13. SEE DE10 PLANS.
- 14. WATER DAMAGE. CLEAN WITH LOW PRESSURE MISTING NEBULIZED WATER. USE NATURAL BRISTLE BRUSHES AND NON-IONIC DETERGENT ONLY AS NECESSARY.
- 15. REMOVE SIGN AND ASSOCIATED HARDWARE.
- 16. REMOVE LIGHT FIXTURE AND ASSOCIATED HARDWARE AND ELECTRICAL WIRING BACK TO SOURCE. REPAIR DAMAGED STONE AND MORTAR AND REPOINT WITH APPROPRIATE LIME MORTAR AS NECESSARY. MORTAR MIX TO BE APPROVED BY THE ARCHITECT PRIOR TO APPLICATION.
- 17. REMOVE PLYWOOD PATCH.
- 18. REMOVE NON-ORIGINAL METAL BARS.
- 19. REMOVE NON-ORIGINAL METAL BARS.
- 20. REMOVE EXPOSED HARDWARE. REMOVE AND REPAIR VOIDS WITH MORTAR OF MATCHING COLOR AND TEXTURE. MORTAR MIX TO BE APPROVED BY THE ARCHITECT PRIOR TO APPLICATION.
- 21. REMOVE VINE/VEGETATION CAREFULLY AVOIDING DAMAGE TO STONE AND MORTAR. REPAIR/REPLACE DAMAGED STONE AS NECESSARY, REPOINT WITH APPROPRIATE LIME MORTAR AS NECESSARY.
- 22. KNOB AND TUBE WIRING. KEEP INTACT.
- 23. REMOVE INAPPROPRIATE AND NON-FUNCTIONAL DOWNSPOUTS AND GUTTERS.
- 24. REMOVE NON-ORIGINAL STEEL, CONCRETE AND WOOD MATERIAL. REPAIR WITH MATERIAL MATCHING ORIGINAL STONE AND MORTAR. RELOCATE DOOR AND FRAME TO ORIGINAL LOCATION.

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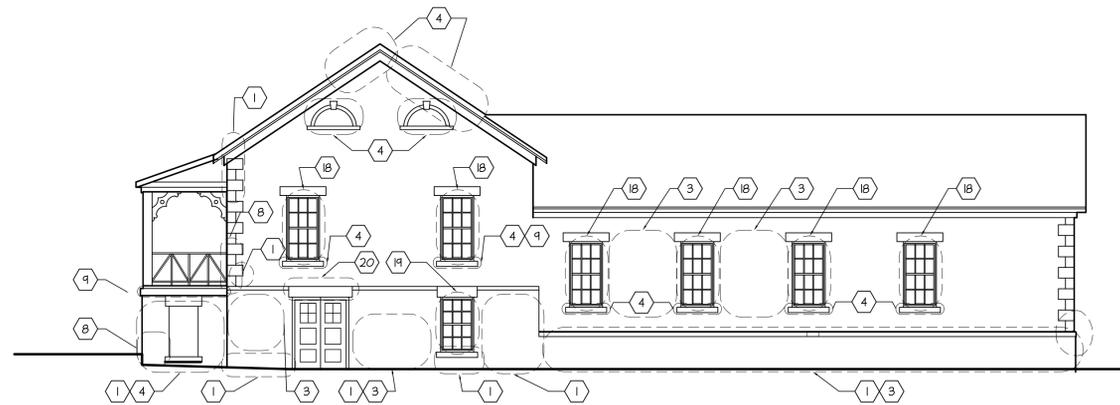
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PROJECT NO: B05-027
CAD DWG FILE: ae208.dwg
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CHECKED BY: AH

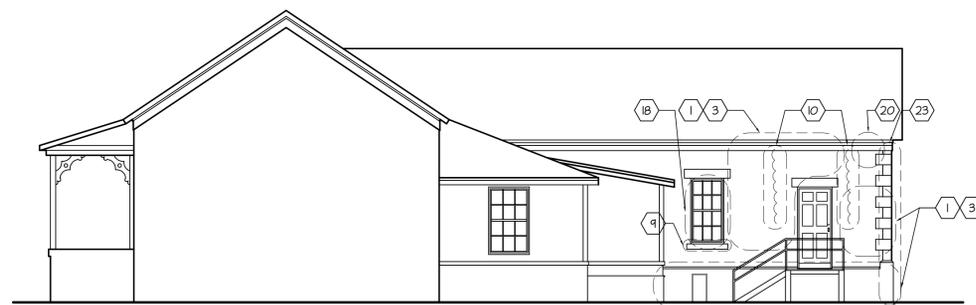
632 EAST WEST
MASONRY
RESTORATION
ELEVATIONS

AE208

SHEET # OF #

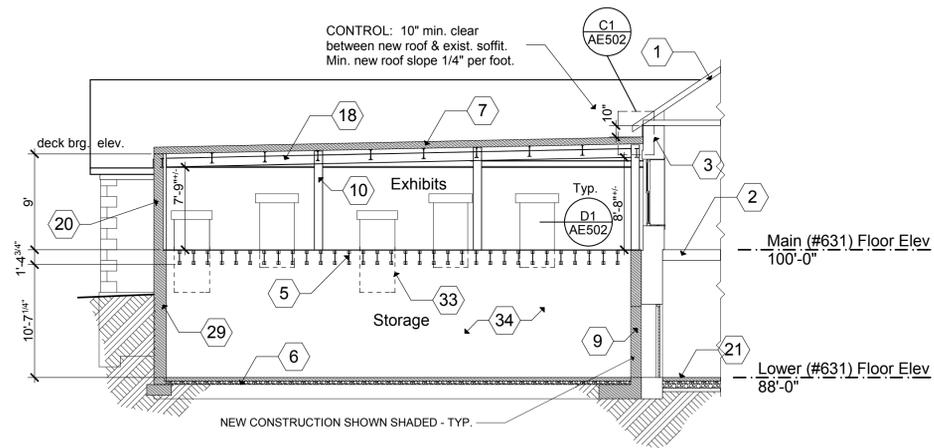


C1 632 WEST EXTERIOR
SCALE: 1/8" = 1'-0"



A1 632 EAST INTERIOR
SCALE: 1/8" = 1'-0"

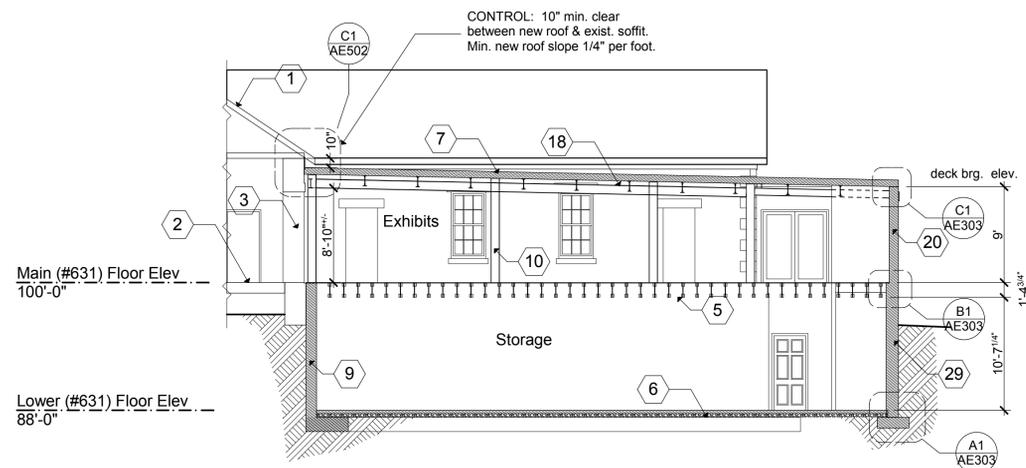
CONSTRUCTION SHOWN HERE SAME AS AT E-W SECTION C1/AE301 U.N.O.



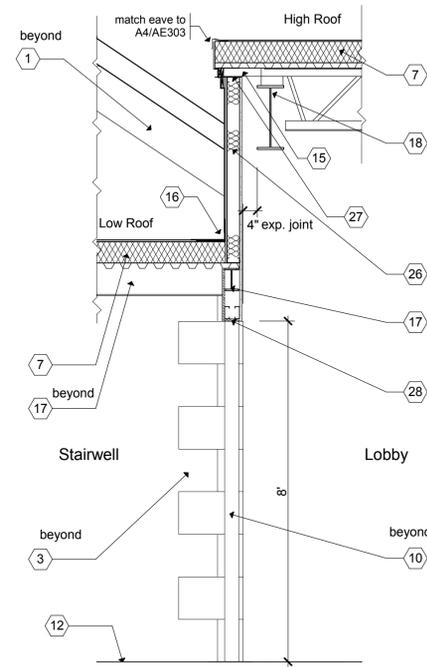
C1 NORTH-SOUTH TRANSVERSE BUILDING SECTION @ 63
1/8" = 1'-0"

!! FIELD VERIFY ALL ROOF, BEAM, COLUMN HEIGHTS, BRG. ELEV., ETC. PRIOR TO ERECTION
IF ANY DEVIATIONS ARE FOUND THAT CONFLICT WITH DRAWINGS
NOTIFY ARCHITECT BEFORE PROCEEDING !!

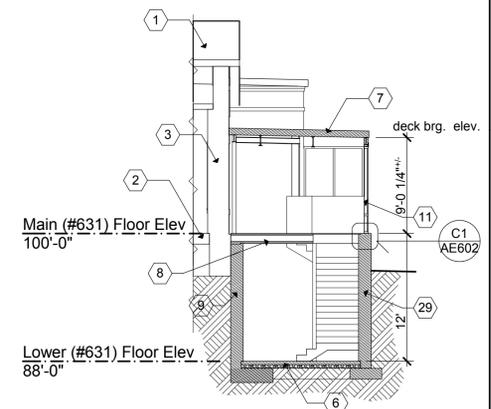
CONSTRUCTION SHOWN HERE SAME AS AT E-W SECTION C1/AE301 U.N.O.



A1 NORTH-SOUTH TRANSVERSE BUILDING SECTION @ 631 INFILL -
1/8" = 1'-0"



C4 ROOF SECTION @ STAIR/LOBBY
1/2" = 1'-0"



A4 N-S SECTION @ STAIR
1/8" = 1'-0"

REFERENCE NOTES

- 1 EXISTING ROOF STRUCTURE.
- 2 EXISTING FLOOR STRUCTURE.
- 3 EXISTING WALL STRUCTURE.
- 4 NEW EXPOSED SCISSOR TRUSS ROOF STRUCTURE - ASPHALT SHINGLES ON RIGID INSULATION OVER STEEL "B" DECK ON STEEL TRUSSES. SEE STRUCTURAL DRWGS. FOR DETAILS.
- 5 NEW EXPOSED OPEN WEB WOOD TRUSS FLOOR STRUCTURE - 3/4" SHEATHING OVER WOOD TRUSSES. SEE WALL SECTIONS & STRUCTURAL DRWGS. FOR DETAILS.
- 6 NEW 4" CONCRETE SLAB FLOOR ON FREE DRAINING GRAVEL.
- 7 NEW EXPOSED OPEN WEB STEEL ROOF STRUCTURE - MEMBRANE ROOF ON RIGID INSULATION OVER STEEL "B" DECK ON TRUSSES. SEE WALL SECTIONS & STRUCTURAL DRWGS. FOR DETAILS.
- 8 NEW FLOOR STRUCTURE - 3/4" SHEATHING OVER WOOD JOISTS. SEE WALL SECTIONS & STRUCTURAL DRWGS. FOR DETAILS.
- 9 NEW CONCRETE RETAINING WALL - UNDERPINS EXISTING MASONRY FOUNDATION. SEE STRUCTURAL DRWGS. FOR DETAILS.
- 10 STEEL COLUMN.
- 11 STOREFRONT GLAZING.
- 12 FINISH FLOOR.
- 13 NEW FURRED OUT STUD WALL AGAINST EXISTING MASONRY WALL.
- 14 EXISTING GRADE.
- 15 WELD STEEL EXTENSION TO TRUSS CHORD TO SUPPORT ROOF DECK WHICH EXTENDS OUT OVER SIDEWALL TO LOW ROOF.
- 16 FLASH & COUNTERFLASH METAL FASCIA INTO ROOFING SYSTEM PER ROOFING MANUFACTURER DETAILS.
- 17 STEEL ROOF BEAM - SEE STRUCTURAL DRWGS.
- 18 SLOPING STEEL ROOF BEAM (MOMENT FRAME). SEE STRUCTURAL DRAWINGS FOR DETAILS.
- 19 STEEL FLOOR BEAM - SEE STRUCTURAL DRWGS.
- 20 NEW TYPICAL EXTERIOR WALL - 2X6 STEEL STUDS W/ STONE VENEER.
- 21 NEW 4" CONCRETE SLAB ON COMPACTED GRAVEL PLACED OVER EXISTING FLOOR SLAB.
- 22 NOT USED.
- 23 NOT USED.
- 24 4" THICK CONCRETE RAMP ON COMPACTED GRAVEL.
- 25 NEW SKYLIGHT UNIT
- 26 STEEL STUD WALL W/ METAL PANEL EXTERIOR (TO MATCH FASCIA ABOVE STOREFRONTS) & 5/8" GYP. BD. @ INTERIOR FACE.
- 27 EXPANSION JOINT BETWEEN LOW ROOF & HANGING STUD WALL/HIGH ROOF.
- 28 WRAP GYP. BD. DOWN FROM STUD WALL AROUND ROOF BEAM TO FORM SOFFIT @ HEIGHT SHOWN. RETURN GYP. BD. UPWARDS @ STAIRWELL SIDE TO ROOF DECK.
- 29 CONCRETE FOUNDATION WALL - BRICK LEDGE MAY OCCUR. SEE FDN. PLAN & EXTERIOR ELEVATIONS.
- 30 EXISTING STONE WALL BEYOND
- 31 NEW (OR ENLARGED EXISTING) WALL OPENING. PROVIDE STONE LINTEL TO MATCH EXISTING DOOR/WINDOW LINTELS.
- 32 NEW STUD WALL (BEYOND) WHERE NEW ROOF OVERLAPS ABOVE EXISTING ROOF.
- 33 INFILL EXISTING WALL OPENING.
- 34 NEW FOUNDATION/RETAINING WALL BEYOND.

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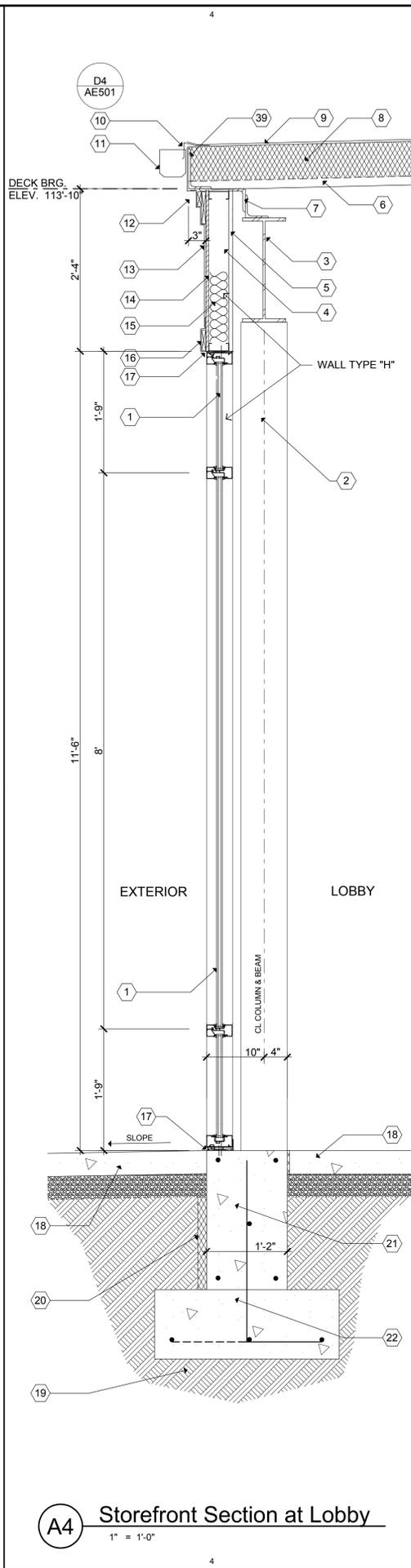
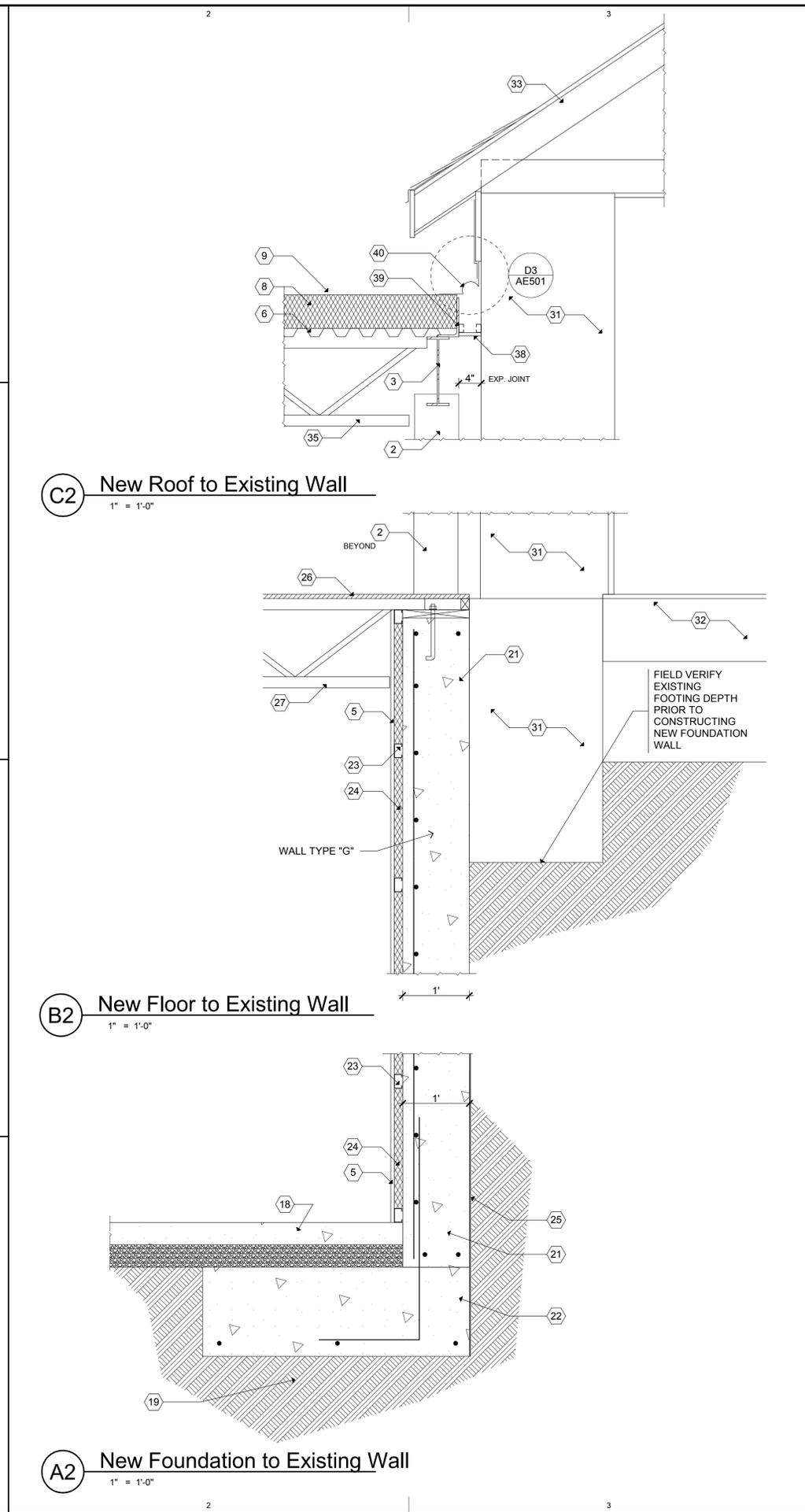
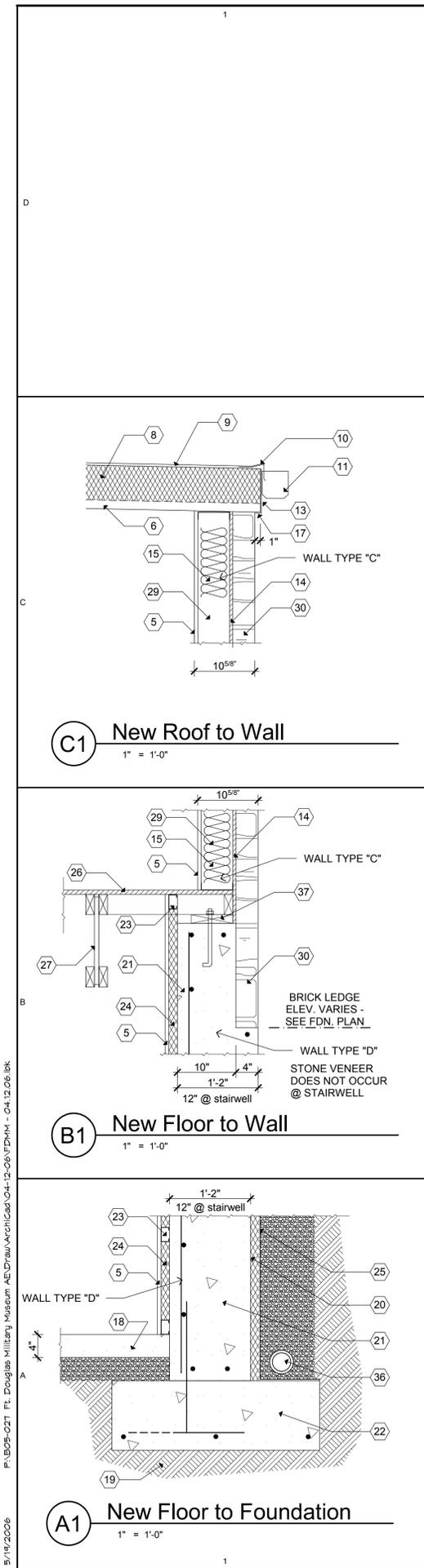
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CD	12/01/05	DD REVIEW SUBMISSION
PROJECT NO:	B05-027	
CAD DWG FILE:	F0MM - 04.12.06.lsk	
DRAWN BY:	DR	
CHECKED BY:	AAH	

BUILDING SECTIONS

AE302



- REFERENCE NOTES**
- 1 STOREFRONT GLAZING SYSTEM. SEE PROJECT MANUAL FOR SPECS.
 - 2 STEEL COLUMN.
 - 3 STEEL ROOF BEAM.
 - 4 2X4 STEEL STUDS @ 16" O.C.
 - 5 5/8" TYPE X GYP. BD. OVER VAPOR BARRIER
 - 6 1-1/2" "B" DECK
 - 7 BUILT-UP STEEL ANGLES - HEIGHT TO MATCH BEARING PLATE OF STEEL ROOF TRUSSES. EXTEND OUT OVER TO PROVIDE SUPPORT FOR STOREFRONT WALL & ROOF ABOVE AS SHOWN.
 - 8 ROOF INSULATION. SEE PROJECT MANUAL FOR SPECS.
 - 9 MEMBRANE ROOFING. SEE PROJECT MANUAL FOR SPECS.
 - 10 METAL FLASHING W/ DRIP EDGE.
 - 11 METAL GUTTER.
 - 12 SHAPED METAL "COVER PIECE" TO MATCH FASCIA FINISH. INSTALL OVER 1X3 ON 1X6. COUNTERFLASH INTO METAL FASCIA ABOVE.
 - 13 METAL FASCIA.
 - 14 AIR INFILTRATION BARRIER OVER 1/2" WALL SHEATHING. SEE STRUCTURAL DRAWINGS FOR SHEATHING TYPE AND ATTACHMENT.
 - 15 BATT INSULATION.
 - 16 SHAPED METAL "COVER PIECE" TO MATCH FASCIA FINISH. INSTALL OVER 1X4. COUNTERFLASH INTO METAL FASCIA ABOVE.
 - 17 CAULK THOROUGHLY.
 - 18 4" CONCRETE SLAB ON COMPACTED GRAVEL FILL.
 - 19 UNDISTURBED EARTH OR COMPACTED ENGINEERED FILL PER STRUCTURAL NOTESS.
 - 20 RIGID INSULATION OVER FLUID APPLIED FOUNDATION WATERPROOFING.
 - 21 CONCRETE FOUNDATION WALL - SEE STRUCTURAL DRAWINGS FOR REINFORCING.
 - 22 CONCRETE FOOTING - SEE STRUCTURAL DRAWINGS FOR SIZE & REINFORCING.
 - 23 METAL FURRING CHANNELS
 - 24 RIGID INSULATION
 - 25 WATERPROOFING
 - 26 3/4" FLOOR SHEATHING - SEE STRUCTURAL DRWGS. FOR TYPE & ATTACHMENT.
 - 27 FLOOR TRUSS - SEE STRUCTURAL DRAWINGS.
 - 28 1/2" WALL SHEATHING - SEE STRUCTURAL DRWGS. FOR TYPE & ATTACHMENT.
 - 29 2X6 STEEL STUDS @ 16" O.C.
 - 30 STONE VENEER
 - 31 EXISTING MASONRY WALL.
 - 32 EXISTING FLOOR STRUCTURE.
 - 33 EXISTING ROOF STRUCTURE.
 - 34 EXTEND FLASHING UP TO BOTTOM OF EXISTING WOOD TRIM & COUNTERFLASH.
 - 35 STEEL ROOF JOIST - SEE STRUCTURAL DRAWINGS.
 - 36 FOOTING DRAIN - PERF. PIPE WRAPPED IN FILTER FABRIC IN GRAVEL FILL
 - 37 2X REQ'D. TREATED PLATE - SEE STRUCTURAL FOR ANCHOR BOLTS.
 - 38 PREFINISHED SHEETMETAL FILLER STRIP ANCHORED TO METAL FURRING CHANNELS.
 - 39 STEEL CLOSURE ANGLE.
 - 40 EXPANSION JOINT AT MEMBRANE OR SHINGLE ROOF - SEE DETAILS.

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CHECKED BY: AAH

WALL SECTIONS

AE303

5/14/2006 P:\B05-027 FT. Douglas Military Museum AE303.dwg (A) 12.06.06 - 04.12.06.lbk

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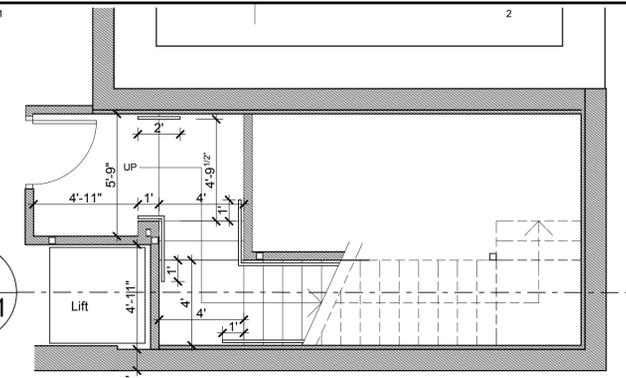
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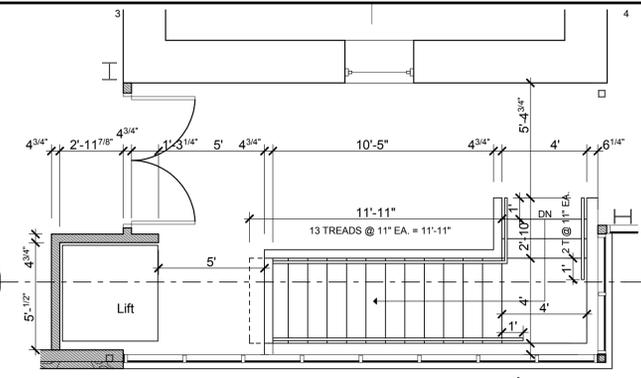
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DD		
PROJECT NO:	B05-027	
CAD DWG FILE:	F0MM - 04.12.06.lbk	
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ENLARGED STAIR
PLAN, SECTION,
DETAILS

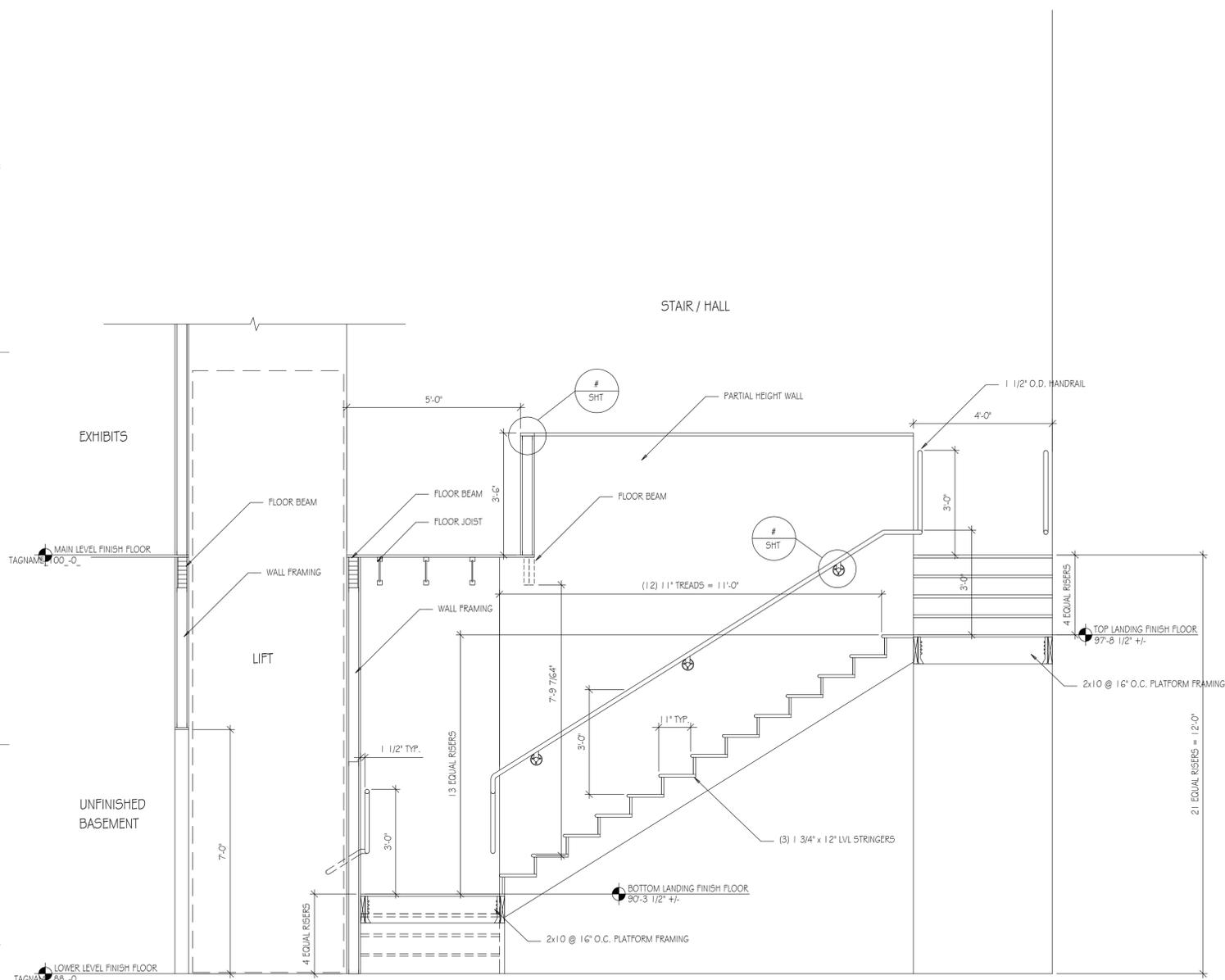
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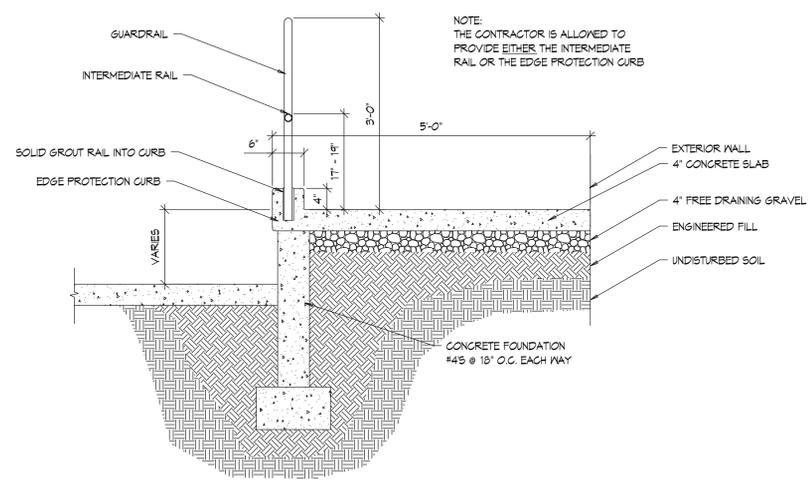
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1/4" = 1'-0"



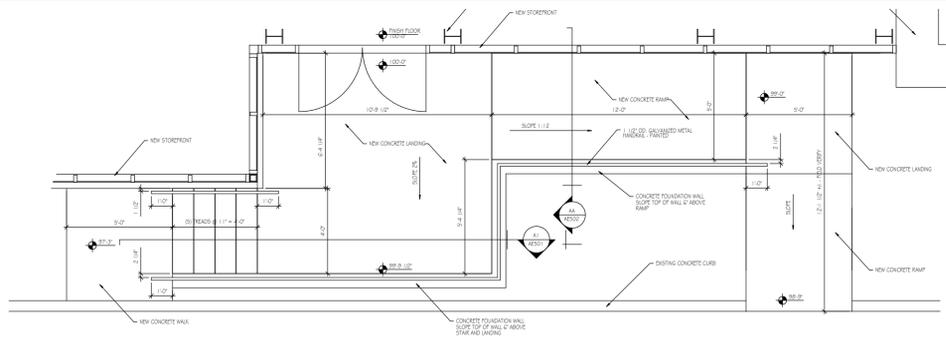
D3 Main Level Stair Plan
1/4" = 1'-0"



A1 STAIR SECTION
1/2" = 1'-0"

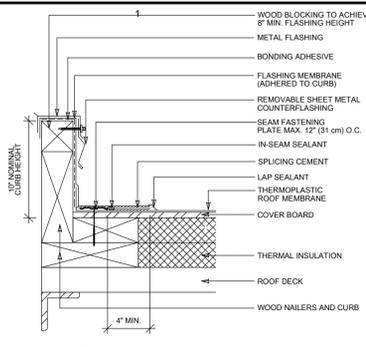


B4 RAMP SECTION
3/4" = 1'-0"

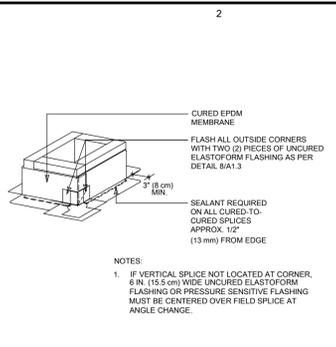


A4 ENLARGED PORCH PLAN
1/4" = 1'-0"

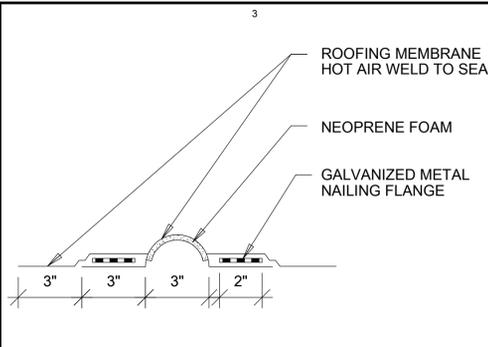
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5/14/2006



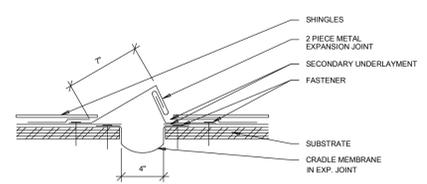
D1 FLASHING @ SKYLIGHT CURB
1 1/2" = 1'-0"



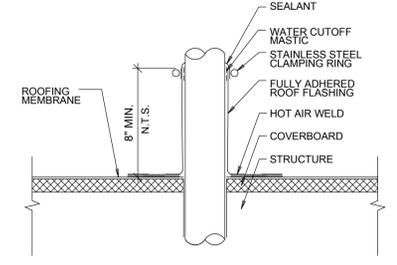
D3 EXPANSION JOINT COVER
3" = 1'-0"



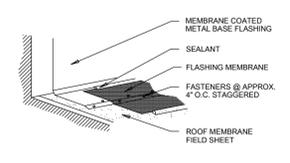
D4 DRAINING PERIMETER EDGE
3" = 1'-0"



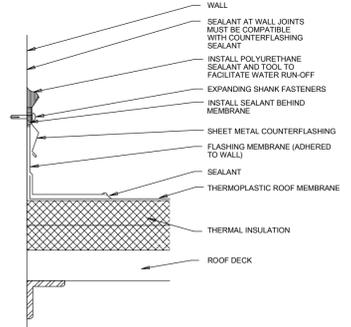
C1 SHINGLE EXPANSION JOINT
1 1/2" = 1'-0"



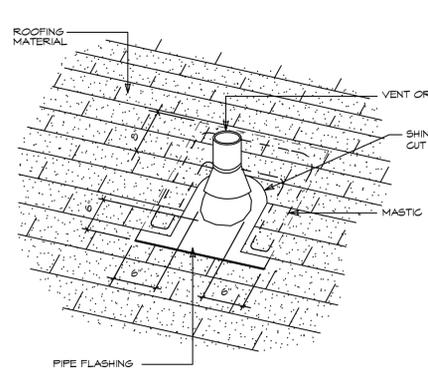
C2 PIPE JACK @ MEMBRANE
3" = 1'-0"



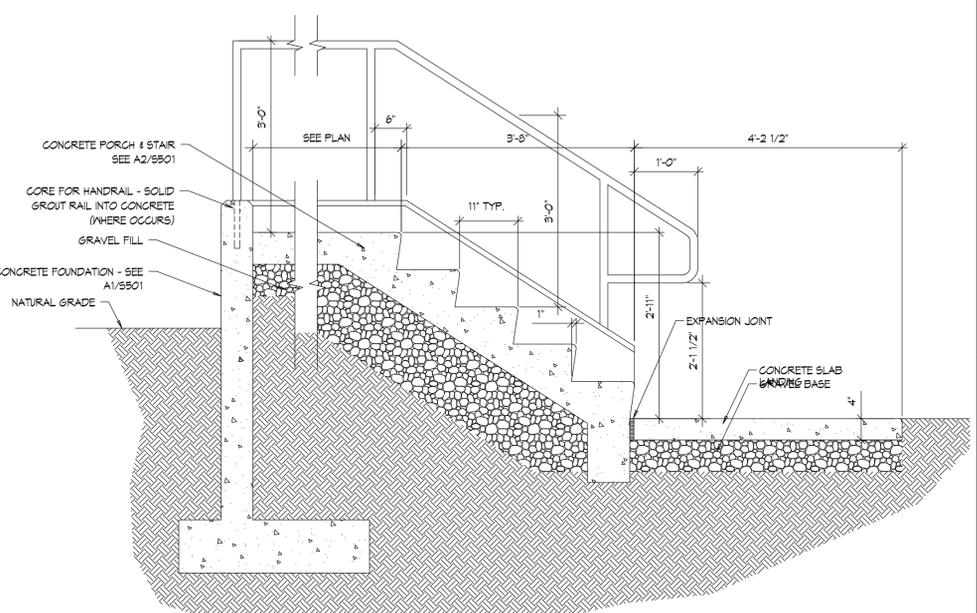
C3 PERIMETER SECUREMENT
1 1/2" = 1'-0"



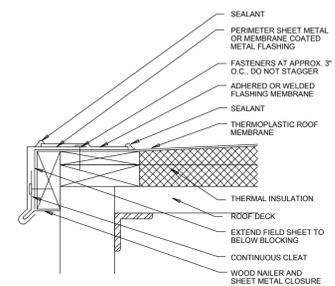
C4 COUNTERFLASHING
1 1/2" = 1'-0"



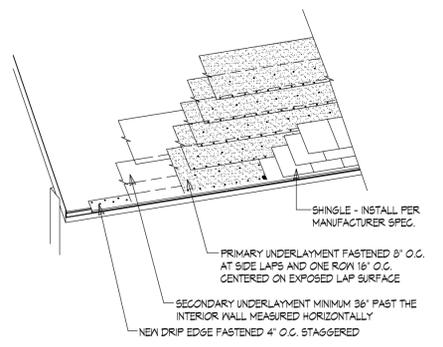
B5 PIPE JACK
3" = 1'-0"



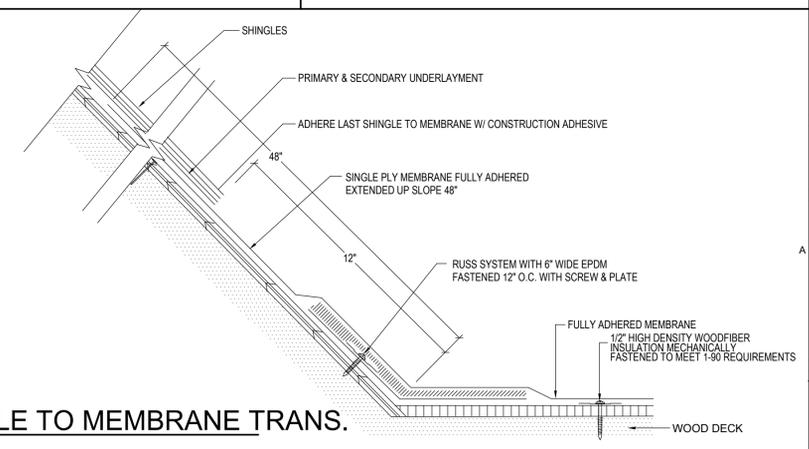
A1 CONCRETE STAIR SECTION
3/4" = 1'-0"



A3 PERIM. EDGE @ LOW SLOPE
1 1/2" = 1'-0"



B4 TYP. UNDERLAYMENT
3" = 1'-0"



A4 SHINGLE TO MEMBRANE TRANS.
3" = 1'-0"

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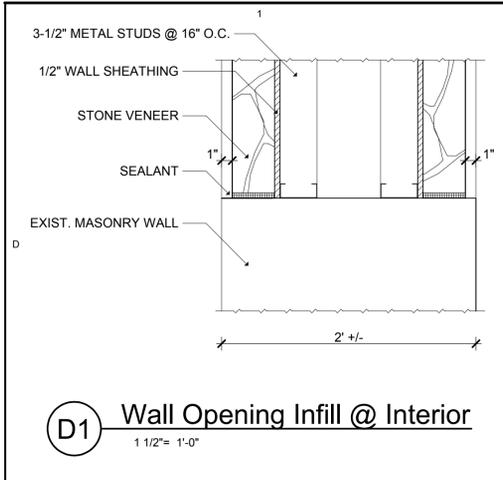
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CD	12/01/05	DD REVIEW SUBMISSION
DD		
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CAD DWG FILE:	F0MM - 04.12.06.0k	
DRAWN BY:	DR	
CHECKED BY:	AAH	

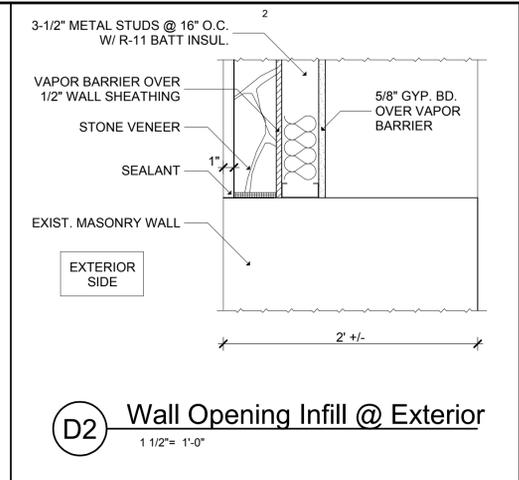
CONSTRUCTION
DETAILS

AE501

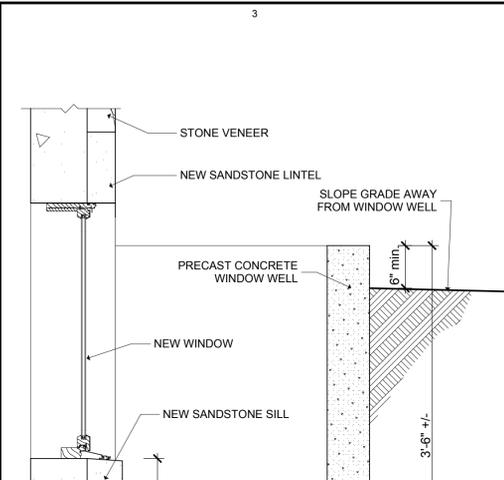
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D1 Wall Opening Infill @ Interior
1 1/2" = 1'-0"

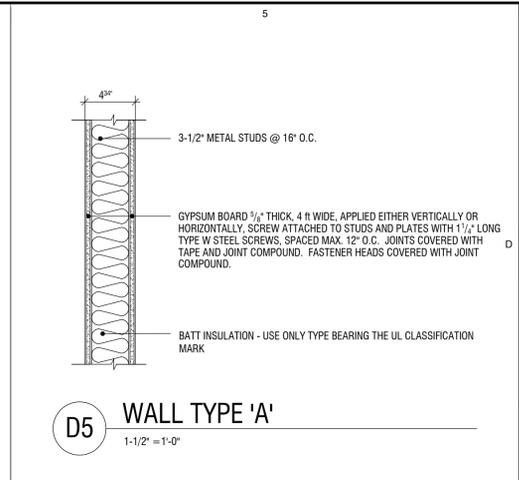


D2 Wall Opening Infill @ Exterior
1 1/2" = 1'-0"

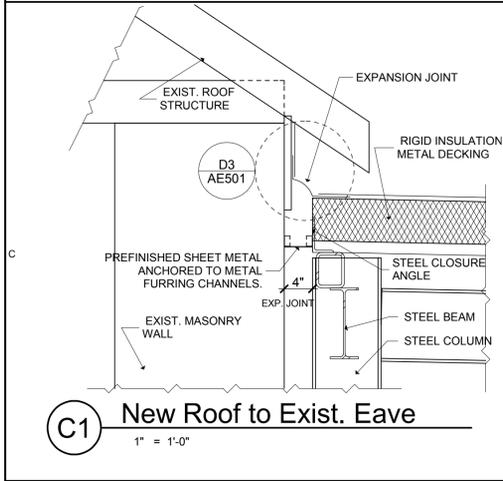


C3 Window Well
1" = 1'-0"

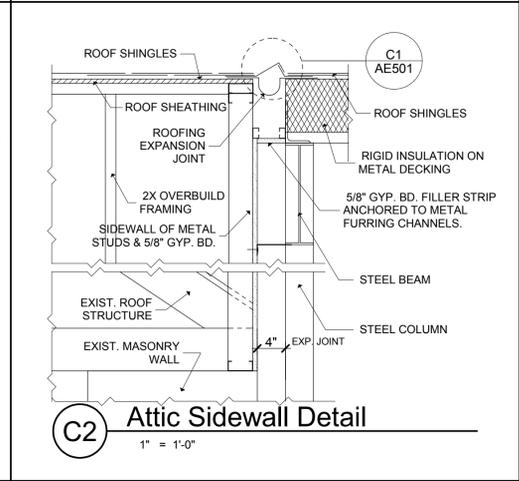
SEE B1/AE303 FOR WALL TYPE D
SEE B2/AE303 FOR WALL TYPE G
SEE A4/AE303 FOR WALL TYPE H



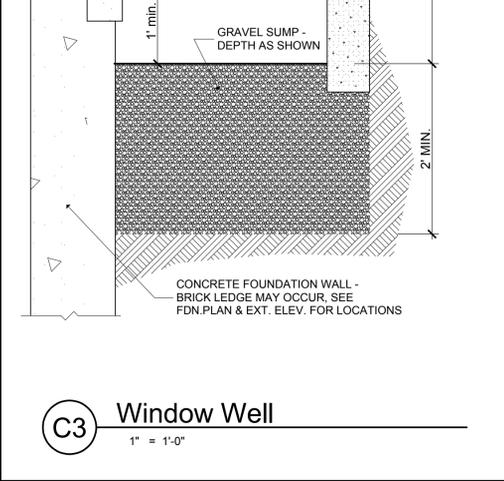
D5 WALL TYPE 'A'
1 1/2" = 1'-0"



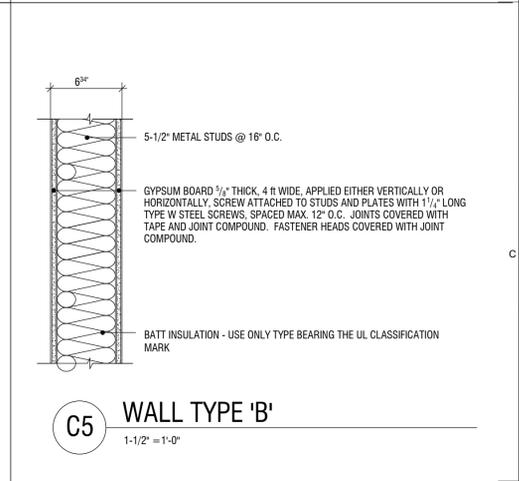
C1 New Roof to Exist. Eave
1" = 1'-0"



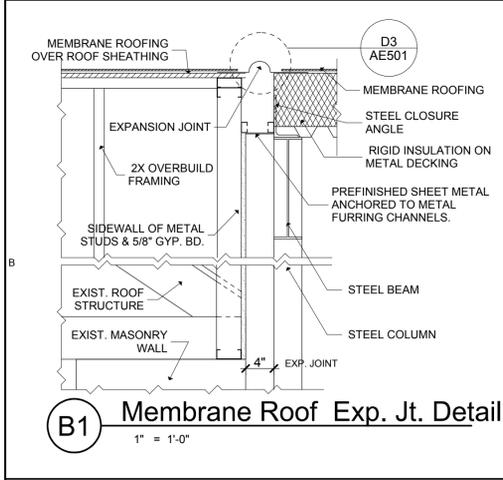
C2 Attic Sidewall Detail
1" = 1'-0"



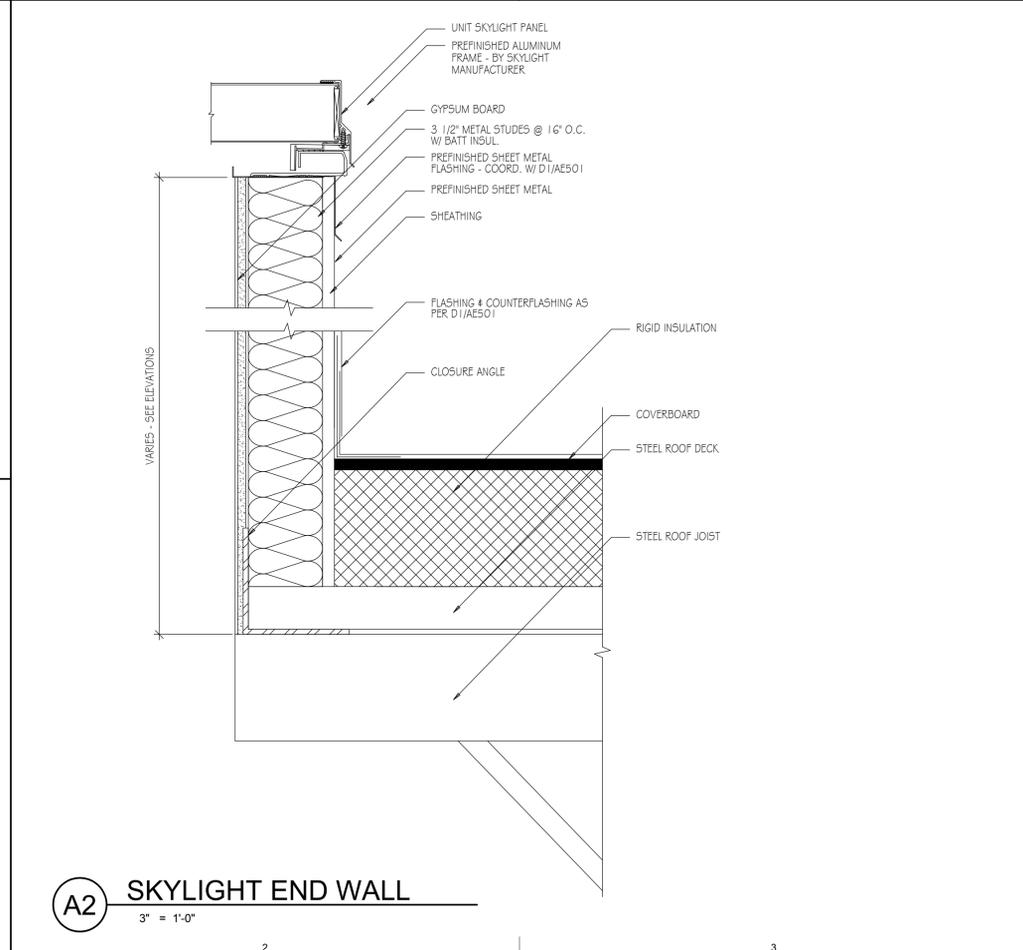
C4 WALL TYPE 'E'
1 1/2" = 1'-0"



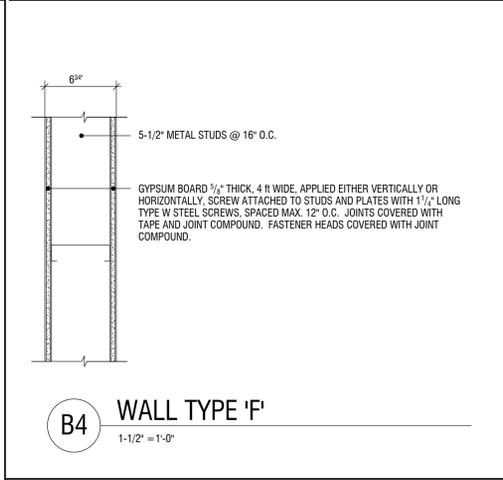
C5 WALL TYPE 'B'
1 1/2" = 1'-0"



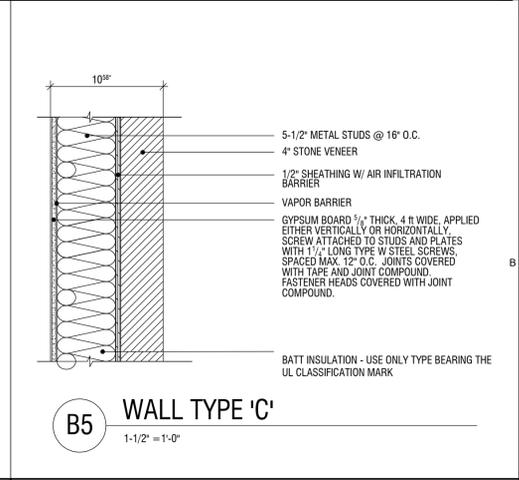
B1 Membrane Roof Exp. Jt. Detail
1" = 1'-0"



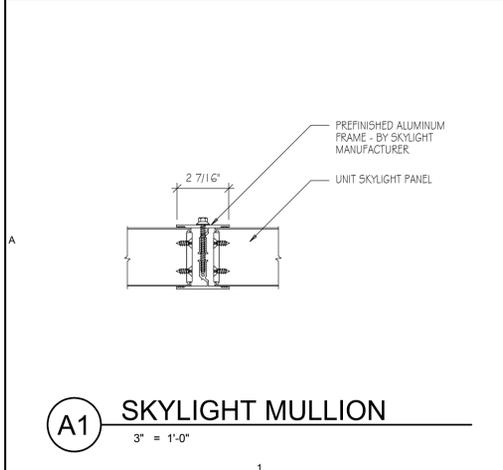
A2 SKYLIGHT END WALL
3" = 1'-0"



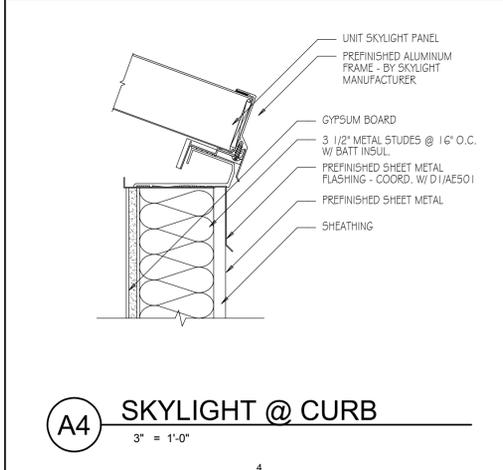
B4 WALL TYPE 'F'
1 1/2" = 1'-0"



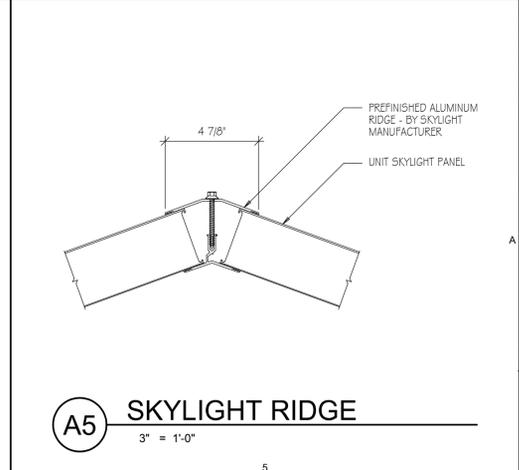
B5 WALL TYPE 'C'
1 1/2" = 1'-0"



A1 SKYLIGHT MULLION
3" = 1'-0"



A4 SKYLIGHT @ CURB
3" = 1'-0"



A5 SKYLIGHT RIDGE
3" = 1'-0"

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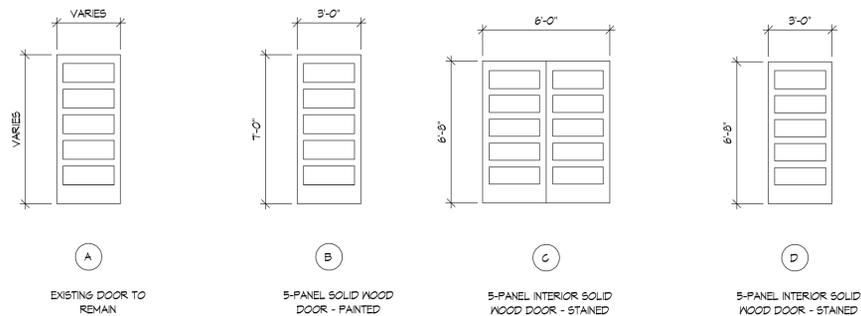
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CAD DWG FILE:	F0MM - 04.12.06.rsk	
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CHECKED BY:	AAH	

**CONSTRUCTION
DETAILS**

AE502

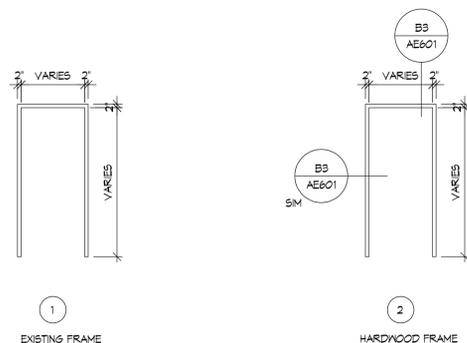
P:\B05-027 - Ft. Douglas Military Museum - AE502.rvt - 04.12.06.rsk

DOOR TYPES



- GENERAL DOOR NOTES:**
- HANG DOORS TO CLEAR FINISH FLOORING BY 1/2" MAX.
 - FIELD VERIFY ALL DOOR DIMENSIONS.
 - REFER TO PROJECT MANUAL FOR HARDWARE GROUPS.
 - ALL INTERIOR DOORS & FRAMES TO BE 20 MIN. RATED.

FRAME TYPES



FINISH SCHEDULE

ROOM NUMBER	ROOM NAME	FLOOR	BASE	WALLS				CEILING	ADDITIONAL NOTES
				NORTH	EAST	SOUTH	WEST		
BASEMENT									
001	UNFINISHED BASEMENT	F2	B2	W2	W2	W2	W2	C2	
002	MECHANICAL	F2	B1	W1 / W2	W1	W1	W1	C1	
003	ELECTRICAL	F2	B5	W1	W2	W2	W2	C1	
004	STAIRS	F2	B3	W1	W1	W1	W1	C1	
005	UNFINISHED BASEMENT	F2	B2	W1	W1	W1	W1	C1	
MAIN FLOOR									
101	SHIP / RECEIVE	F1	B1	W1	W1	W1	W1	C1	
102	EXHIBITS	F1	B1	W1	W1	W1	W1	C1	
103	OFFICE	F1	B1	W1	W1	W1	W1	C1	
104	OFFICE	F1	B1	W1	W1	W1	W1	C1	
105	EXHIBITS	F1	B1	W1	W1	W1	W1	C1	
106	OFFICE	F1	B1	W1	W1	W1	W1	C1	
107	TOILET	F1	B1	W1	W1	W1	W1	C1	
108	TOILET	F1	B1	W1	W1	W1	W1	C1	
109	TOILET	F1	B1	W1	W1	W1	W1	C1	
110	TOILET	F1	B1	W1	W1	W1	W1	C1	
111	HALL / STAIR	F3	B3	W1	W1	W1	W1	C1	
112	EXHIBITS	F3	B3	W4	W4	W2	W4	C2	
113	LOBBY	F3	B3	W5	W4	W5	W4	C2	
114	COLLECTIONS SUPPORT	F1	B1	W1	W1	W1	W1	C1	
115	VAULT	F1	B1	W1	W1	W1	W1	C1	
116	ELECTRICAL	F1	B1	W2	W2	W1	W1	C1	
117	MECHANICAL	F1	B1	W1	W1	W1	W2	C1	
SECOND LEVEL									
201	EXHIBITS	F1	B1	W1/W2	W1/W2	W1	W2	C1	

FINISH SCHEDULE LEGEND

FLOOR	
F1	EXISTING TO REMAIN
F2	SEALED CONCRETE
F3	CARPET TILES
F4	CERAMIC FLOOR TILE MOSAIC
F5	STONE
BASE	
B1	EXISTING TO REMAIN
B2	NONE
B3	WOOD BASE
B4	CERAMIC TILE
B5	4" RUBBER BASE
WALL	
W1	EXISTING TO REMAIN
W2	GYPSUM BOARD, PAINTED
W3	GYPSUM BOARD, PAINTED W/ 5'-0" CERAMIC TILE WAINSCOT
W4	EXISTING STONE, RESTORED AS PER ELEVATIONS
W5	STOREFRONT
W6	WOOD
CEILING	
C1	EXISTING TO REMAIN, PATCH AND PAINT
C2	EXPOSED STRUCTURE, PAINTED
C3	LAY-IN CEILING TILE
C4	GYPSUM BOARD, PAINTED
NOTES	
N1	
N2	
N3	

GENERAL FINISH SCHEDULE NOTES

- ALL MATERIALS, COLORS AND FINISHES NOT SPECIFICALLY IDENTIFIED IN THE CONTRACT DOCUMENTS SHALL BE SUBMITTED FOR SELECTION AND/OR APPROVAL BY ARCHITECT.
- PROVIDE APPROPRIATE THRESHOLDS OR TRANSITION STRIPS AT ALL FLOOR FINISH MATERIAL TRANSITIONS.
- COORDINATE ALL FINISH REQUIREMENTS WITH THE DEMOLITION PLAN GENERAL NOTES.
- LEVEL ALL FLOOR SUBSTRATES AS NECESSARY WITH LEVELING COMPOUND PRIOR TO INSTALLING SCHEDULED FLOOR FINISH.

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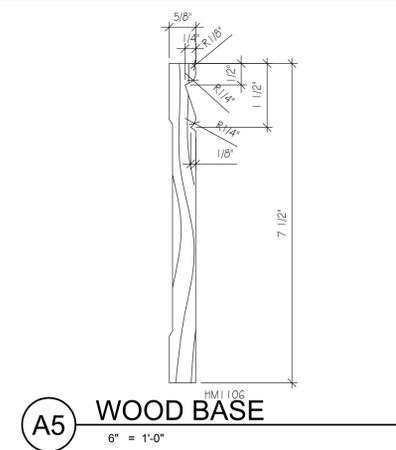
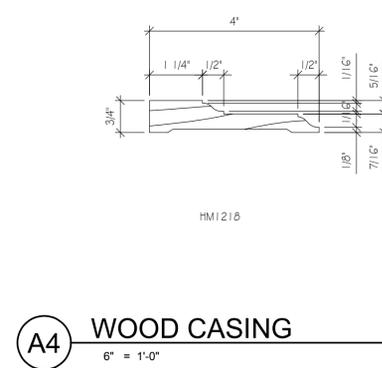
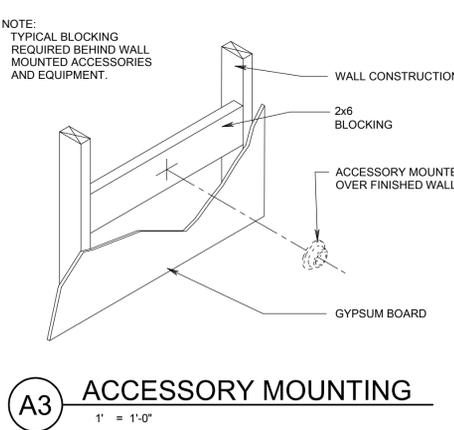
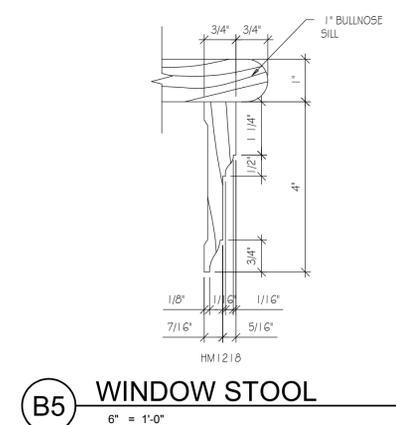
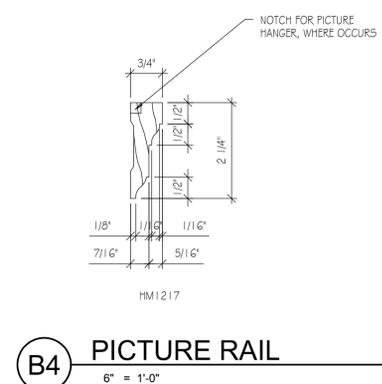
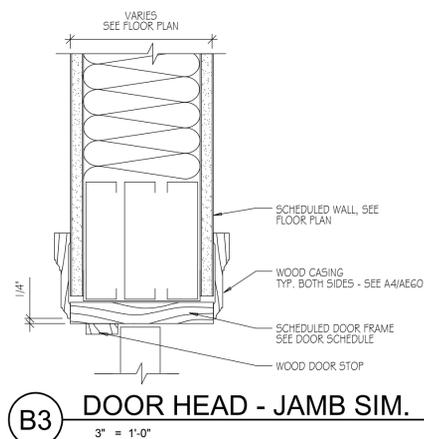
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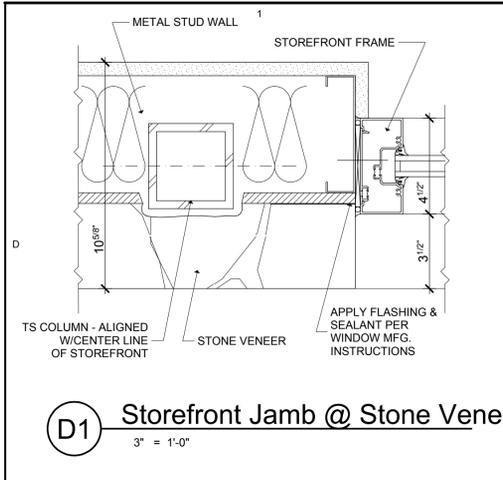
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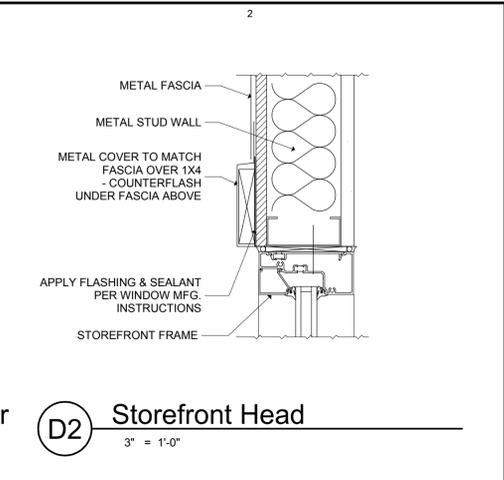
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PROJECT NO:	B05-027	
CAD DWG FILE:	FDM - 04.12.06.lsk	
DRAWN BY:	DR	
CHECKED BY:	AAH	

**DOOR TYPES,
FINISH SCHEDULE
& DETAILS**

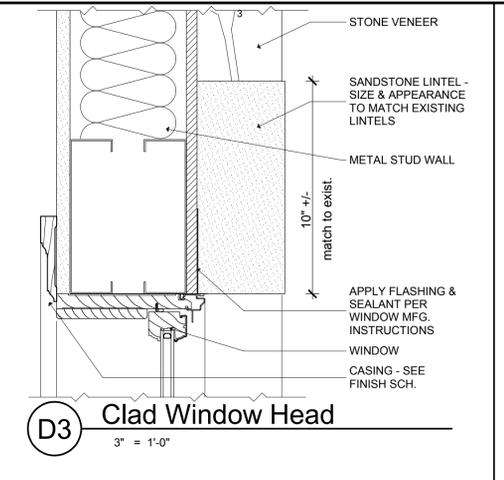
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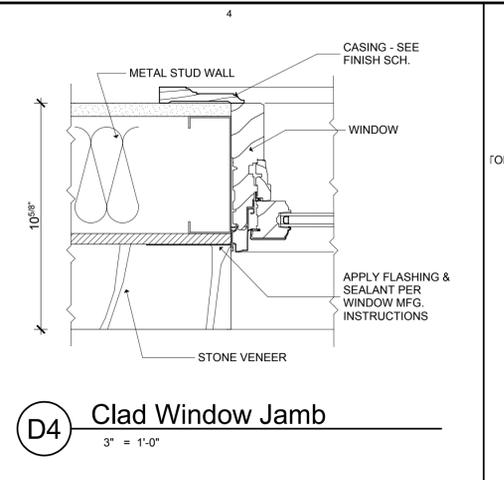
D1 Storefront Jamb @ Stone Veneer
3" = 1'-0"



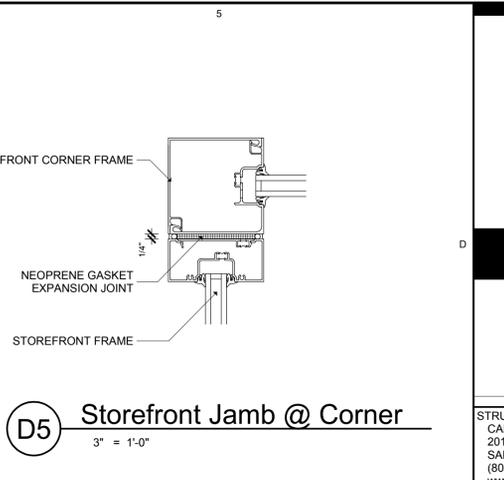
D2 Storefront Head
3" = 1'-0"



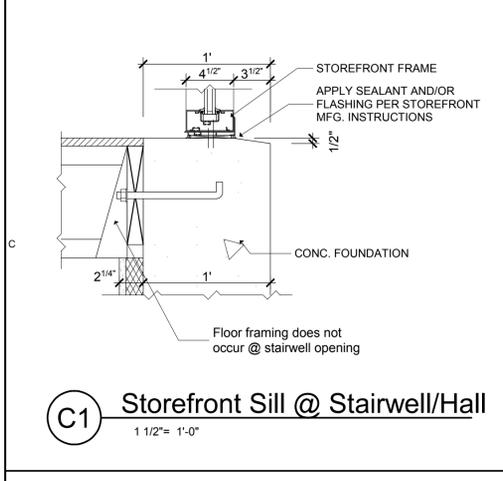
D3 Clad Window Head
3" = 1'-0"



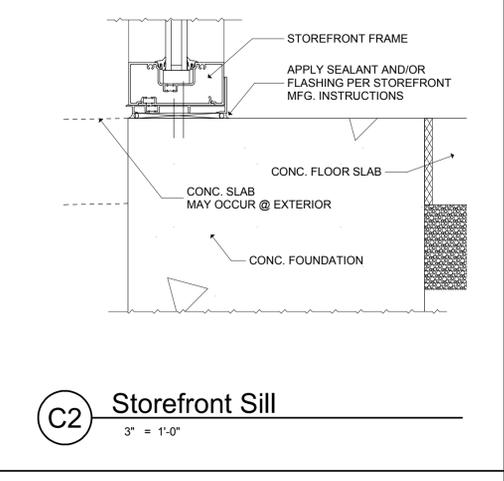
D4 Clad Window Jamb
3" = 1'-0"



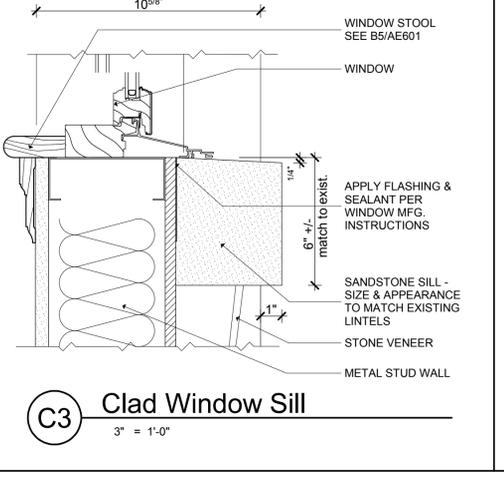
D5 Storefront Jamb @ Corner
3" = 1'-0"



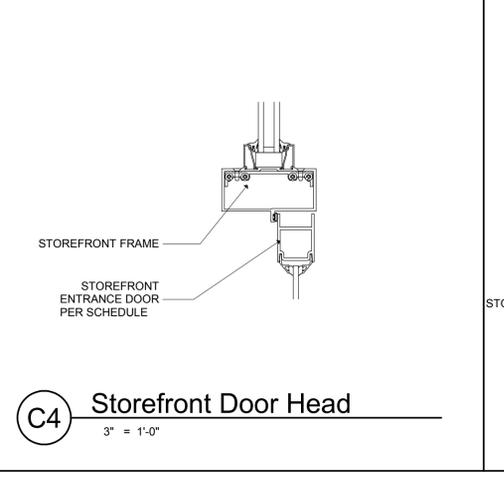
C1 Storefront Sill @ Stairwell/Hall
1 1/2" = 1'-0"



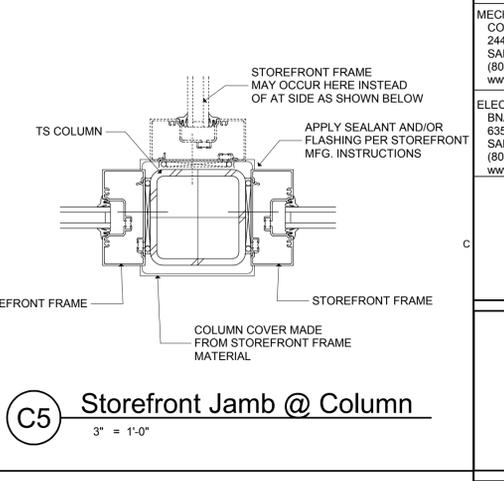
C2 Storefront Sill
3" = 1'-0"



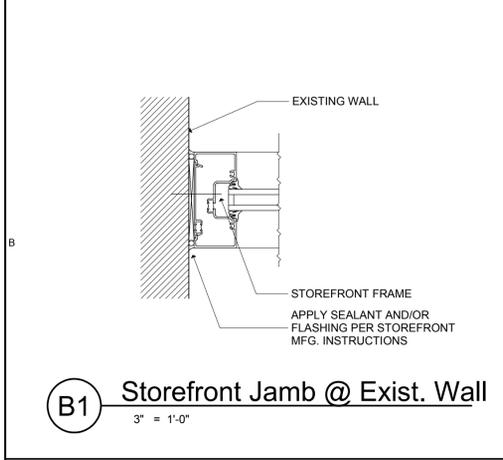
C3 Clad Window Sill
3" = 1'-0"



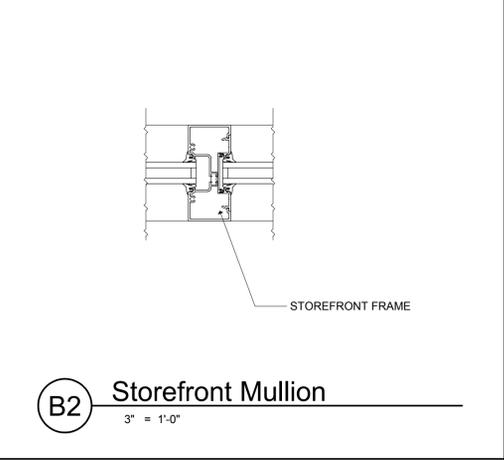
C4 Storefront Door Head
3" = 1'-0"



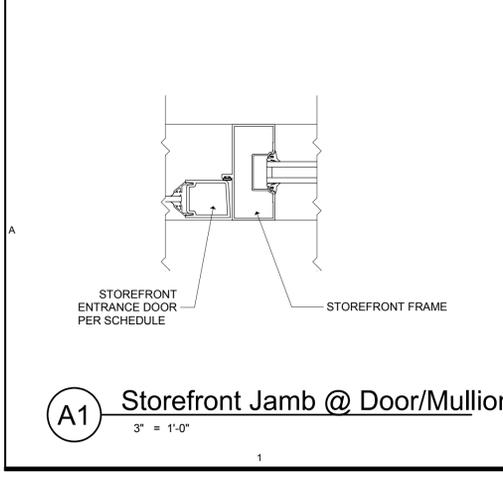
C5 Storefront Jamb @ Column
3" = 1'-0"



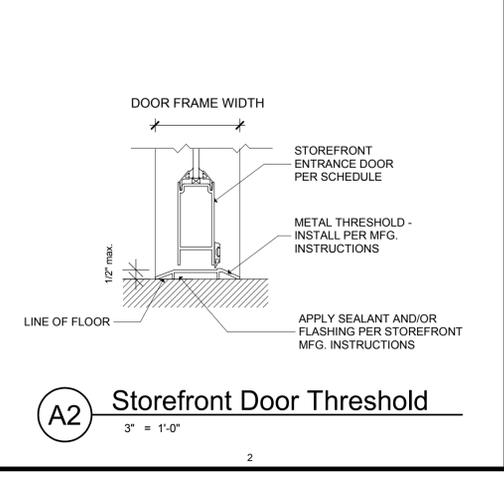
B1 Storefront Jamb @ Exist. Wall
3" = 1'-0"



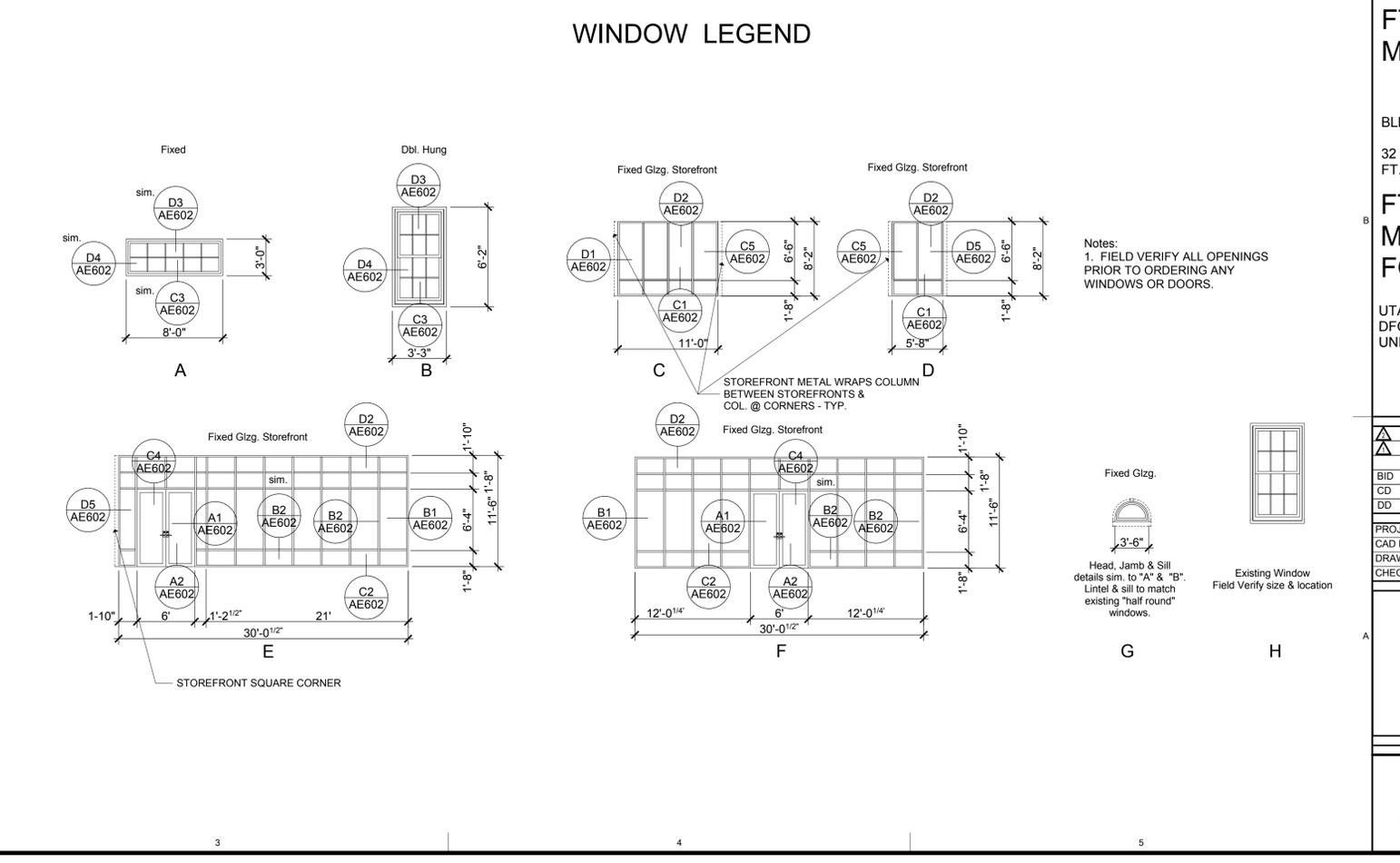
B2 Storefront Mullion
3" = 1'-0"



A1 Storefront Jamb @ Door/Mullion
3" = 1'-0"



A2 Storefront Door Threshold
3" = 1'-0"



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STOREFRONT & WINDOW SCHEDULES & DETAILS

AE602

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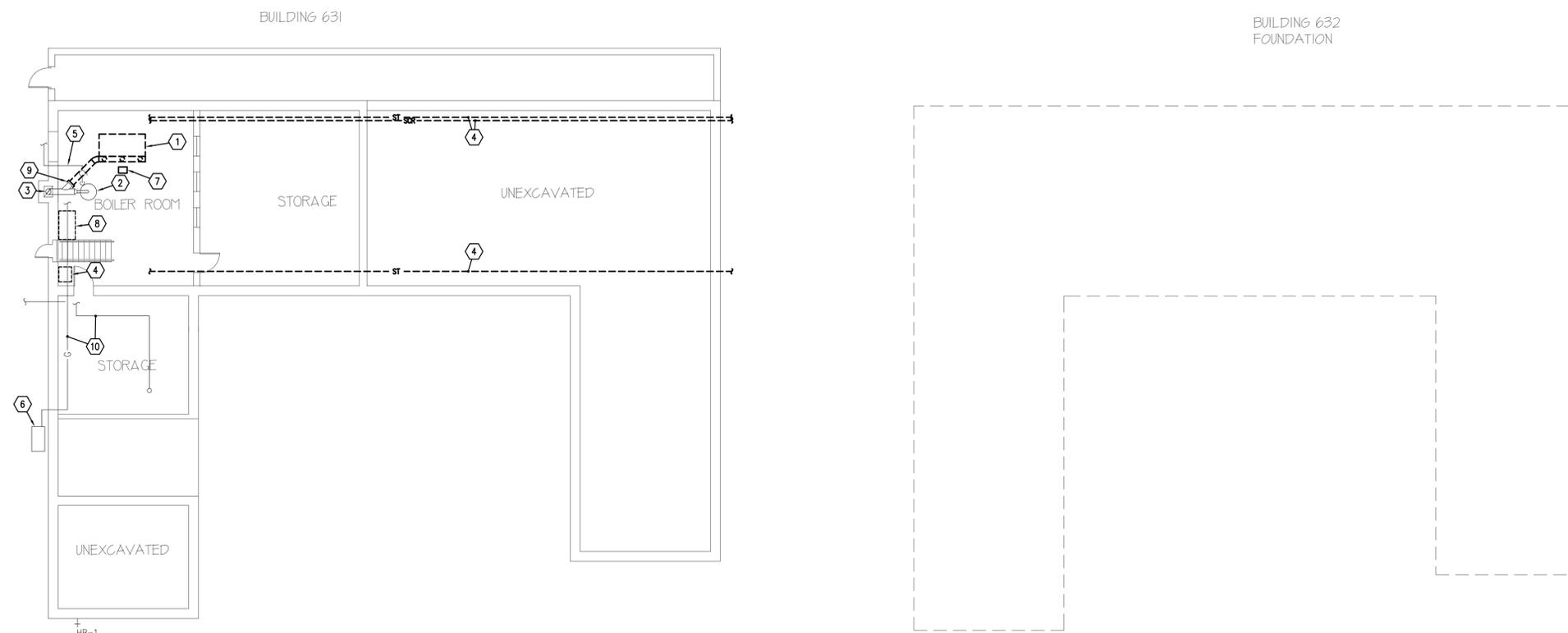
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DD	12/01/05	DD SUBMISSION
SD		

PROJECT NO: 2005-062.00
CAD DWG FILE:
DRAWN BY: T. ELKINGTON
CHECKED BY: M. MARSHALL

LOWER LEVEL
MECHANICAL
DEMOLITION PLAN

MD101



KEYED NOTES

- ① REMOVE STEAM BOILER & ALL ASSOCIATED PIPING & EQUIPMENT.
- ② WATER HEATER & ALL ASSOCIATED PIPING & EQUIPMENT TO REMAIN.
- ③ FLUE UP THROUGH CHIMNEY TO REMAIN.
- ④ REMOVE ALL STEAM SUPPLY AND CONDENSATE RETURN PIPING.
- ⑤ DOMESTIC COLD WATER TO REMAIN.
- ⑥ EXISTING GAS METER TO REMAIN.
- ⑦ REMOVE SUMP PUMP & ALL ASSOCIATED PIPING.
- ⑧ EXISTING COLD WATER AND HOT WATER PIPING TO REMAIN.
- ⑨ CAP FLUE AND REMOVE ALL BOILER FLUE.
- ⑩ PIPING TO REMAIN.

1 LOWER LEVEL MECHANICAL DEMOLITION PLAN
SCALE: 3/32" = 1'-0"

6' 0' 4' 8' 12' 16' 24'



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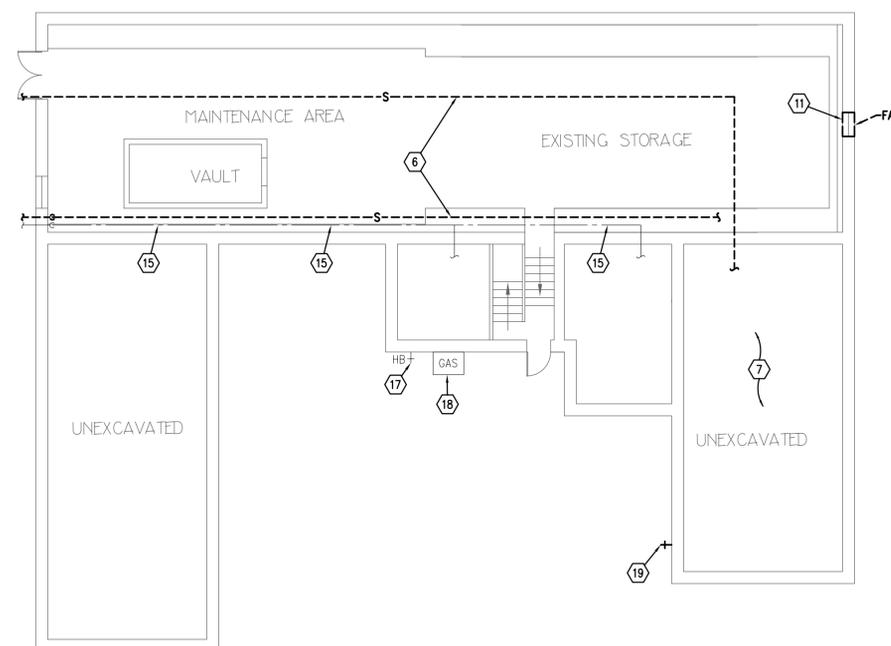
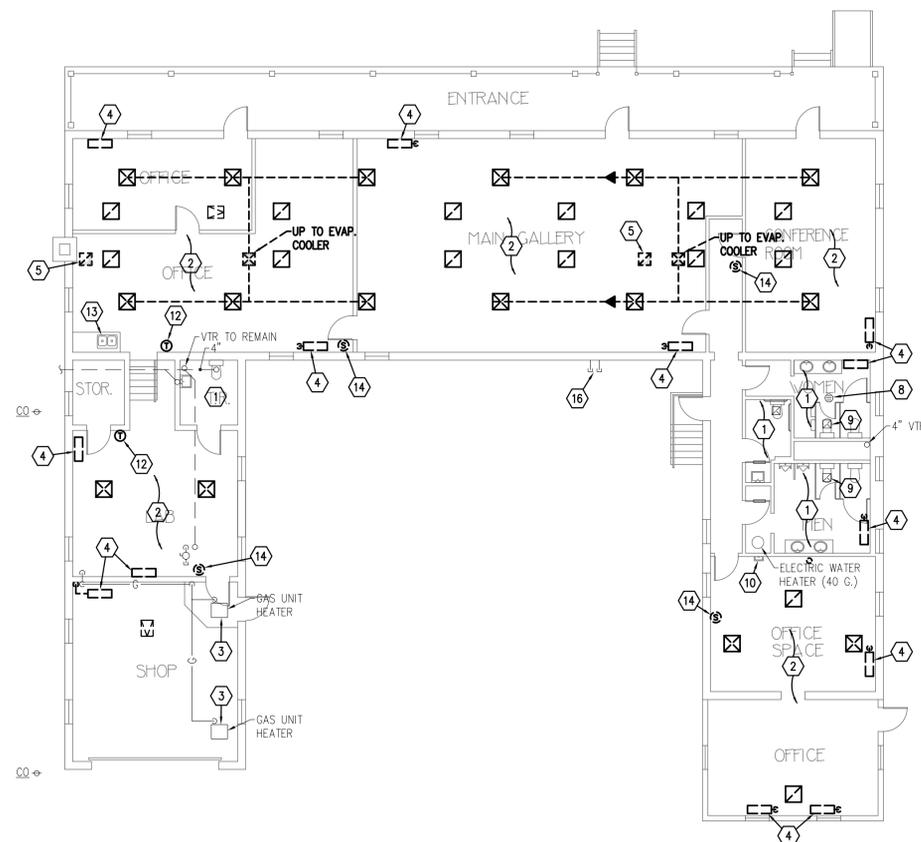
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PROJECT NO: 2005-062.00
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DRAWN BY: T. ELKINGTON
CHECKED BY: M. MARSHALL

MAIN LEVEL
MECHANICAL
DEMOLITION PLAN

MD102



KEYED NOTES

- 1 ALL PLUMBING FIXTURES, ASSOCIATED PIPING & EQUIPMENT TO REMAIN.
- 2 REMOVE ALL DUCTWORK, GRILLES & DIFFUSERS IN THIS AREA.
- 3 NATURAL GAS RADIANT HEATERS & ALL ASSOCIATED GAS PIPING TO REMAIN.
- 4 REMOVE RADIANT HEATER & ASSOCIATED STEAM PIPING.
- 5 DUCTWORK TO RELIEF FANS TO BE REMOVED.
- 6 REMOVE ALL STEAM PIPING IN THIS AREA.
- 7 PIPING IN UNEXCAVATED AREA TO BE REMOVED.
- 8 FLOOR DRAIN TO REMAIN.
- 9 EXHAUST DUCTWORK & GRILLES TO REMAIN.
- 10 ELECTRIC WATER COOLER & ALL ASSOCIATED PIPING TO REMAIN.
- 11 REMOVE FAN @ WINDOW.
- 12 REMOVE T-STAT & ALL WIRING.
- 13 SINK & ALL ASSOCIATED PIPING TO REMAIN.
- 14 REMOVE EVAPORATOR COOLER SWITCH & ALL WIRING.
- 15 DOMESTIC COLD WATER LINE TO REMAIN.
- 16 CAP PIPE INSIDE BUILDING.
- 17 HOSE BIBB & PIPING TO REMAIN.
- 18 NATURAL GAS METER & ALL ASSOCIATED GAS PIPING TO REMAIN.
- 19 PIPING TO REMAIN.

1 MAIN LEVEL MECHANICAL DEMOLITION PLAN

SCALE: 3/32" = 1'-0"

6' 0' 4' 8' 12' 16' 24'



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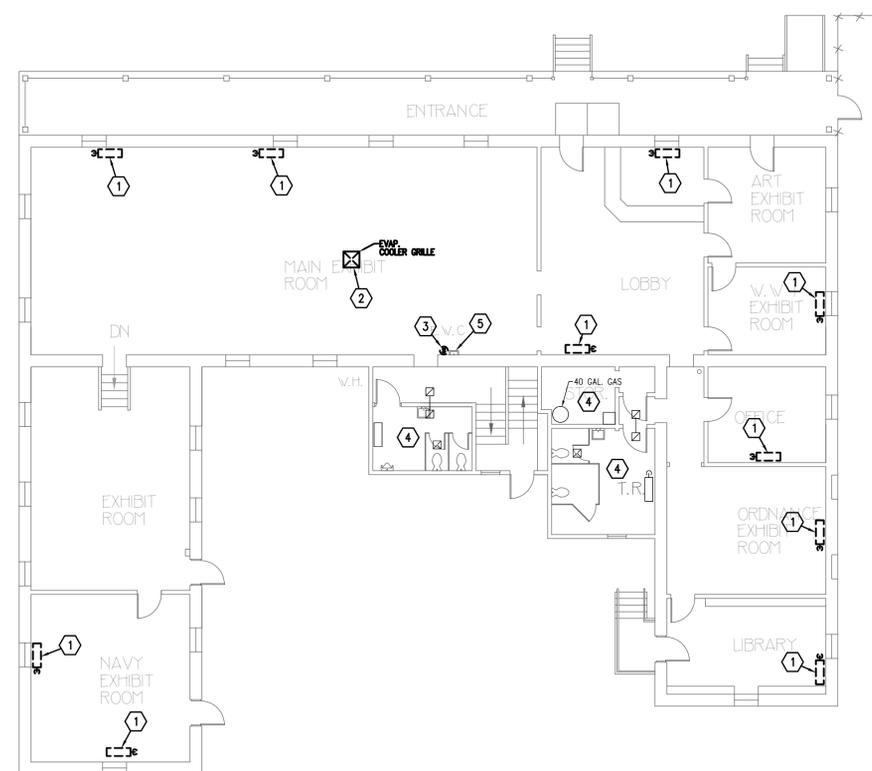
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CHECKED BY: M. MARSHALL

UPPER LEVEL
MECHANICAL
DEMOLITION PLAN

MD103

KEYED NOTES

- ① REMOVE RADIANT HEATER & ALL ASSOCIATED STEAM PIPING.
- ② REMOVE EVAP. COOLER DUCTWORK & GRILLE.
- ③ REMOVE EVAP. COOLER SWITCH & ALL WIRING.
- ④ MECHANICAL AND PLUMBING IN THIS AREA TO REMAIN.
- ⑤ ELECTRIC WATER COOLER TO REMAIN.



1 UPPER LEVEL MECHANICAL DEMOLITION PLAN
SCALE: 3/32" = 1'-0"
6' 0' 4' 8' 12' 16' 24'

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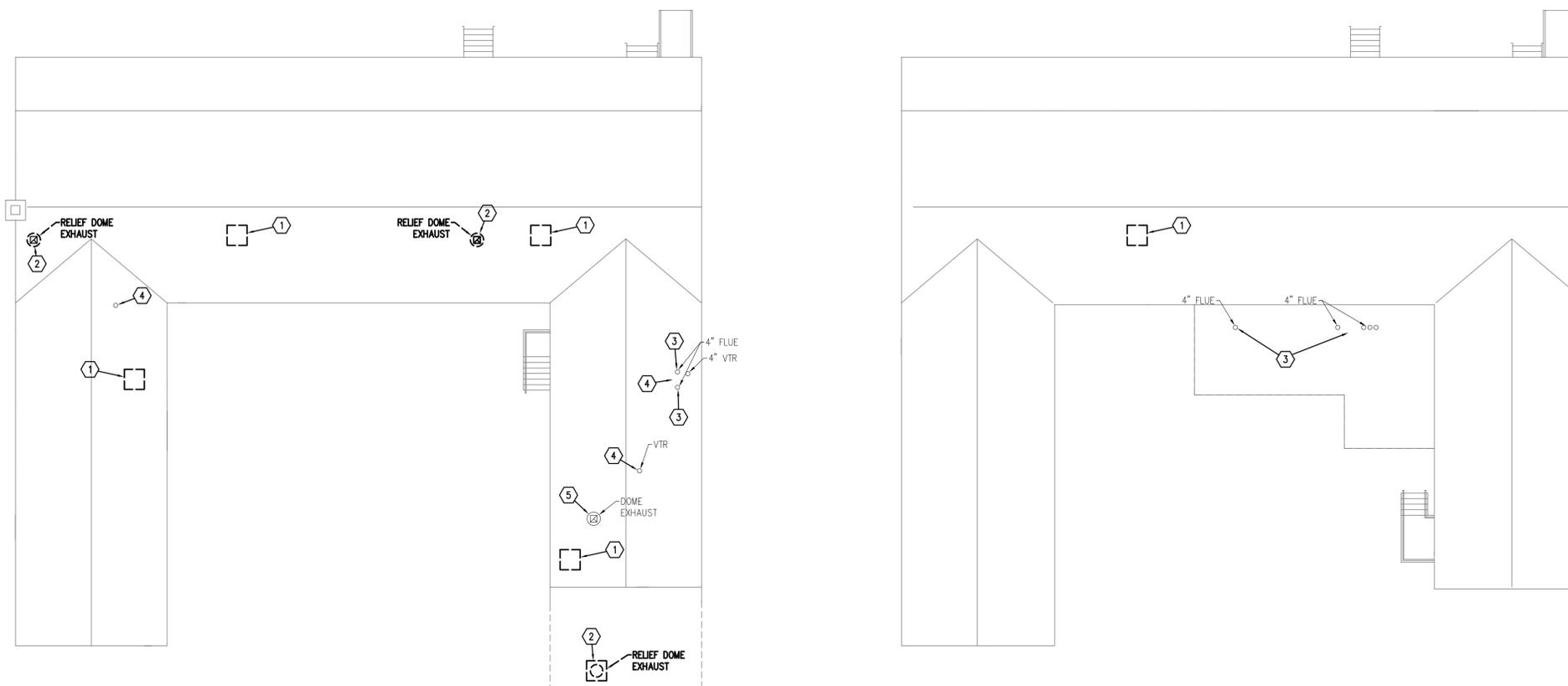
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CHECKED BY: M. MARSHALL

DEMOLITION
ROOF PLAN

MD104

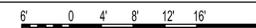
KEYED NOTES

- ① REMOVE EVAPORATOR COOLER, CONTROLS & WATER SUPPLY.
- ② RELIEF FAN AND CURB TO BE REMOVED.
- ③ FLUES TO REMAIN.
- ④ PLUMBING VENT TO REMAIN.
- ⑤ EXHAUST FAN TO REMAIN.



1 DEMOLITION ROOF PLAN

SCALE: 3/32" = 1'-0"



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MH101	LOWER LEVEL MECHANICAL PLAN
MH102	MAIN LEVEL MECHANICAL PLAN
MH103	UPPER LEVEL MECHANICAL PLAN
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MH601	MECHANICAL SCHEDULES
PL101	LOWER LEVEL PLUMBING PLAN
PL102	MAIN LEVEL PLUMBING PLAN

ABBREVIATIONS			
Ø	ROUND OR DIAMETER	MAX	MAXIMUM
AD	ACCESS DOOR	MBH	THOUSAND BRITISH THERMAL UNITS/HOUR
AF	AIRFOIL	MECH	MECHANICAL
AFF	ABOVE FINISHED FLOOR	MIN	MINIMUM
ALT	ALTERNATE	NC	NOISE CRITERIA OR NORMALLY CLOSED
BI	BACKWARD INCLINED	NIC	NOT IN CONTRACT
BOD	BOTTOM OF DUCT	NO	NUMBER
BOP	BOTTOM OF PIPE	NOM	NOMINAL
BTU/H	BRITISH THERMAL UNITS PER HOUR	NTS	NOT TO SCALE
CAP	CAPACITY	OA	OUTSIDE AIR
CFM	CUBIC FEET PER MINUTE	OBD	OPPOSED BLADE DAMPER
CV	CONSTANT VOLUME	OD	OVERFLOW DRAIN
DB	DRY BULB	OFCI	OWNER FURNISHED, CONTRACTOR INSTALLED
DIA	DIAMETER	OFOI	OWNER FURNISHED, OWNER INSTALLED
DSN	DOWN SPOUT NOZZLE	PD	PRESSURE DROP
DW	DISHWASHER	POC	POINT OF CONNECTION
(E)	EXISTING	PRV	PRESSURE REDUCING VALVE
EAT	ENTERING AIR TEMPERATURE	PSI	POUNDS PER SQUARE INCH
EFF	EFFICIENCY	PSIG	POUNDS PER SQUARE INCH GAUGE
ELEV	ELEVATION	RA	RETURN AIR
ENCL	ENCLOSURE	RAD	RADIUS
ESP	EXTERNAL STATIC PRESSURE	RD	ROOF DRAIN
ET	EXPANSION TANK	RPBP	REDUCED PRESSURE BACKFLOW PREVENTER
EWC	ELECTRIC WATER COOLER	SA	SUPPLY AIR
EWT	ENTERING WATER TEMPERATURE	SEN	SENSIBLE
FCO	FLOOR CLEANOUT	SIM	SIMILAR
FD	FLOOR DRAIN	SL	SEA LEVEL
FO	FLAT OVAL	SP	STATIC PRESSURE
FPM	FEET PER MINUTE	SQ FT	SQUARE FEET
FS	FLOOR SINK	SS	SERVICE SINK OR STAINLESS STEEL
FT	FEET	TOD	TOP OF DUCT
FV	FACE VELOCITY	TSP	TOTAL STATIC PRESSURE
GA	GAUGE	U	URINAL
GAL	GALLON	VAV	VARIABLE AIR VOLUME
GD	GARAGE DRAIN	VD	VOLUME DAMPER
GPM	GALLONS PER MINUTE	VFD	VARIABLE FREQUENCY DRIVE
HP	HORSEPOWER	VOL	VOLUME
HR	HOUR	VTR	VENT THROUGH ROOF
HT	HEIGHT	W/	WITH
IN	INCH	W/O	WITHOUT
INWC	INCHES OF WATER COLUMN	WB	WET BULB
INWG	INCHES OF WATER GAUGE	WC	WATER CLOSET
L	LAVATORY OR LOUVER	MVD	MANUAL VOLUME DAMPER
LAT	LEAVING AIR TEMPERATURE	WCO	WALL CLEANOUT
LBS	POUNDS	WPD	WATER PRESSURE DROP
LWT	LEAVING WATER TEMPERATURE	WT	WEIGHT

MECHANICAL LEGEND			
NOTE: ALL ITEMS MAY NOT APPEAR ON DRAWINGS			
GATE VALVE		STORM DRAIN ABOVE GRADE	
OS & Y PATTERN GATE VALVE		STORM DRAIN BELOW GRADE	
BALL VALVE		FIRE SERVICE	
BUTTERFLY VALVE		NATURAL GAS	
MOTORIZED VALVE OPERATOR		PROPANE	
GAS COCK		HEAT TRACING	
PLUG VALVE		CHILLED WATER SUPPLY	
CHECK VALVE (SWING OR LIFT AS REQ'D)		CHILLED WATER RETURN	
SOLENOID VALVE		CONDENSER WATER SUPPLY	
AUTOMATIC CONTROL VALVE (2-WAY)		CONDENSER WATER RETURN	
AUTOMATIC CONTROL VALVE (3-WAY)		HEATING WATER SUPPLY	
PRESSURE REDUCING VALVE		HEATING WATER RETURN	
P & T RELIEF VALVE		RADIANT FLOOR SUPPLY	
AIR VENT (AUTOMATIC)		RADIANT FLOOR RETURN	
CURB COCK		STEAM	
THERMAL EXPANSION VALVE		STEAM CONDENSATE RETURN	
STRAINER		REFRIGERANT LIQUID	
CALIBRATED BALANCE VALVE		REFRIGERANT SUCTION	
VENTURI FLOW METER		HOT GAS	
REDUCER		HOT GAS BYPASS	
PET COCK OR GAUGE COCK		DUCT SIZE (N), FIRST FIGURE IS SIDE SHOWN	
PRESSURE GAUGE W/ GAUGE COCK		BURIED OR UNDERFLOOR DUCT	
THERMOMETER		DUCT W/ ACOUSTICAL LINING	
TEMPERATURE & PRESSURE TEST PLUG		FLEXIBLE DUCT (HELICAL)	
IN-LINE PUMP		SPIN-IN FITTING W/ MVD	
FLOW SWITCH		FLEXIBLE DUCT CONNECTION	
AQUASTAT		SUPPLY SLOT DIFFUSER	
TEMPERATURE SENSING WELL		SUPPLY DIFFUSER	
HOSE BIBB OR SILLCOCK		RETURN GRILLE	
YARD HYDRANT		RADIAL SUPPLY DIFFUSERS	
FLOOR DRAIN		RETURN AIR DUCT SECTION	
FLOOR SINK		RETURN AIR DUCT UP	
MANHOLE		RETURN AIR DUCT DOWN	
WALL CLEANOUT		SUPPLY AIR DUCT SECTION	
FLOOR OR GRADE CLEANOUT		SUPPLY AIR DUCT UP	
GRADE CLEANOUT W/ CONCRETE PAD		SUPPLY AIR DUCT DOWN	
VENT THROUGH ROOF		EXHAUST AIR DUCT SECTION	
POST TYPE FDC CONNECTION		EXHAUST AIR DUCT UP	
WALL TYPE FDC CONNECTION		EXHAUST AIR DUCT DOWN	
FIRE HOSE CABINET		ACCESS PANEL	
FIRE DEPT. HORN & LIGHT		MANUAL VOLUME DAMPER	
EXPANSION JOINT		GRAVITY BACKDRAFT DAMPER	
FLEXIBLE PIPE CONNECTION		MOTORIZED DAMPER	
REDUCED PRESSURE BACKFLOW PREVENTER		AIR FLOW STATION	
DIRECTION OF FLOW		FIRE DAMPER	
ELBOW DOWN		SMOKE DAMPER	
ELBOW UP		COMBINATION FIRE/SMOKE DAMPER	
PIPE CAP		DUCT TRANSITION	
TEE DOWN		ELBOW W/ TURNING VANES	
UNION		TEE W/ 45° ENTRY	
DOMESTIC COLD WATER		WYE W/ 45° ENTRY	
DOMESTIC HOT WATER		THERMOSTAT OR TEMP SENSOR	
HOT WATER CIRC.		HUMIDISTAT OR HUMIDITY SENSOR	
TEMPERED WATER		POINT OF REMOVAL FROM EXISTING	
SANITARY (PLBG) VENT		POINT OF CONNECTION TO EXISTING	
SANITARY SEWER ABOVE GRADE		DETAIL TAG	
SANITARY SEWER BELOW GRADE		KEYED NOTE	
DRAIN		SECTION CUT LINE	
ROOF DRAIN			
OVERFLOW DRAIN			

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**MECHANICAL
LEGEND &
ABBREVIATIONS**

MH001

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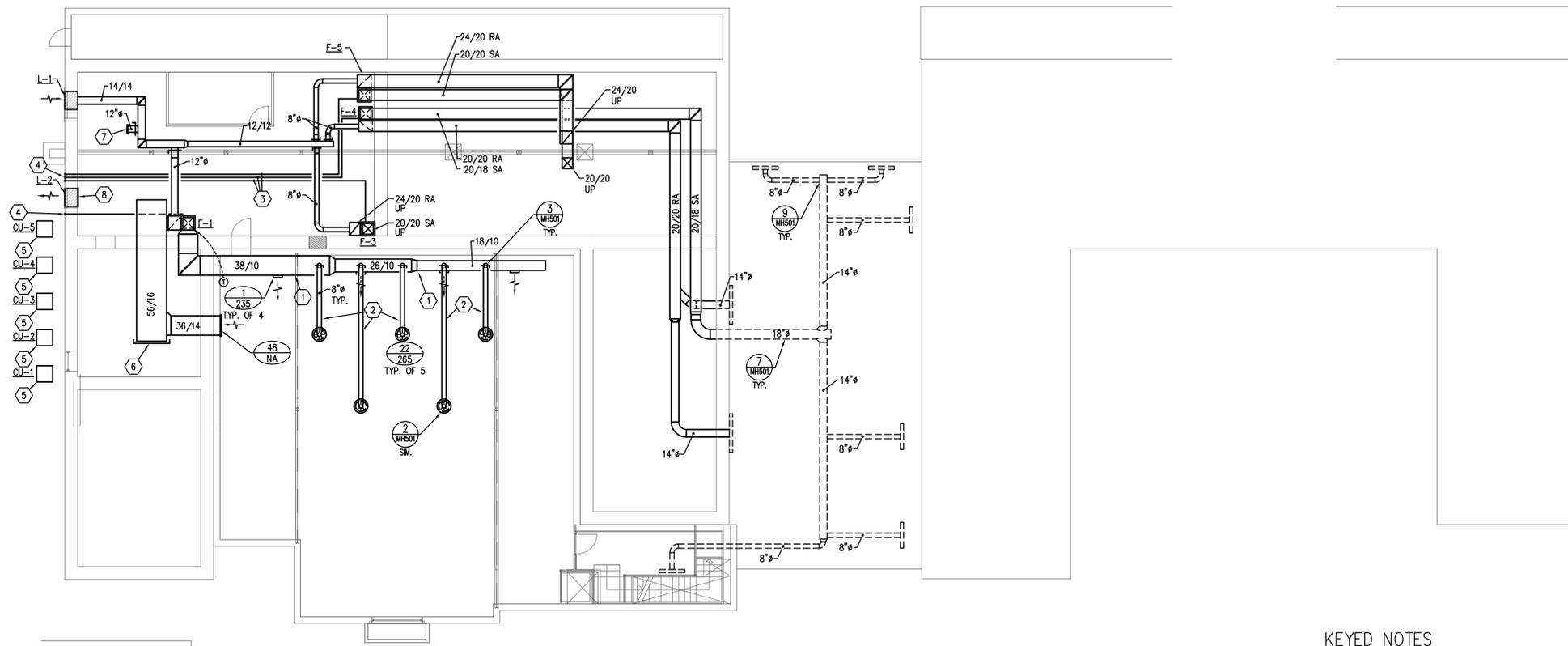
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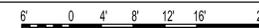
LOWER LEVEL
MECHANICAL PLAN

MH101



1 LOWER LEVEL MECHANICAL PLAN

SCALE: 3/32" = 1'-0"



KEYED NOTES

- 1 HOLD DUCTWORK TIGHT TO BOTTOM OF STRUCTURE & CLOSE TO WALL.
- 2 ROUTE DUCT THROUGH JOISTS.
- 3 ROUTE COMBUSTION AIR AND FLUE PIPING AS REQUIRED PER MANUFACTURER.
- 4 TERMINATE COMBUSTION AIR AND FLUE PIPING THROUGH WALL AS HIGH AS POSSIBLE.
- 5 PROVIDE CONCRETE PAD UNDER CONDENSING UNITS.
- 6 CAP RETURN AIR DUCT FOR FUTURE CONNECTION.
- 7 INSTALL OUTSIDE AIR SPIN IN FOR FUTURE FURNACE AND CAP.
- 8 INSTALL RELIEF AIR LOUVER AND CAP BACK OF LOUVER WITH INSULATED DUCT FOR FUTURE CONNECTION.

GENERAL NOTES

- A REFER TO ARCHITECTURAL DRAWINGS FOR ROOM NAMES.

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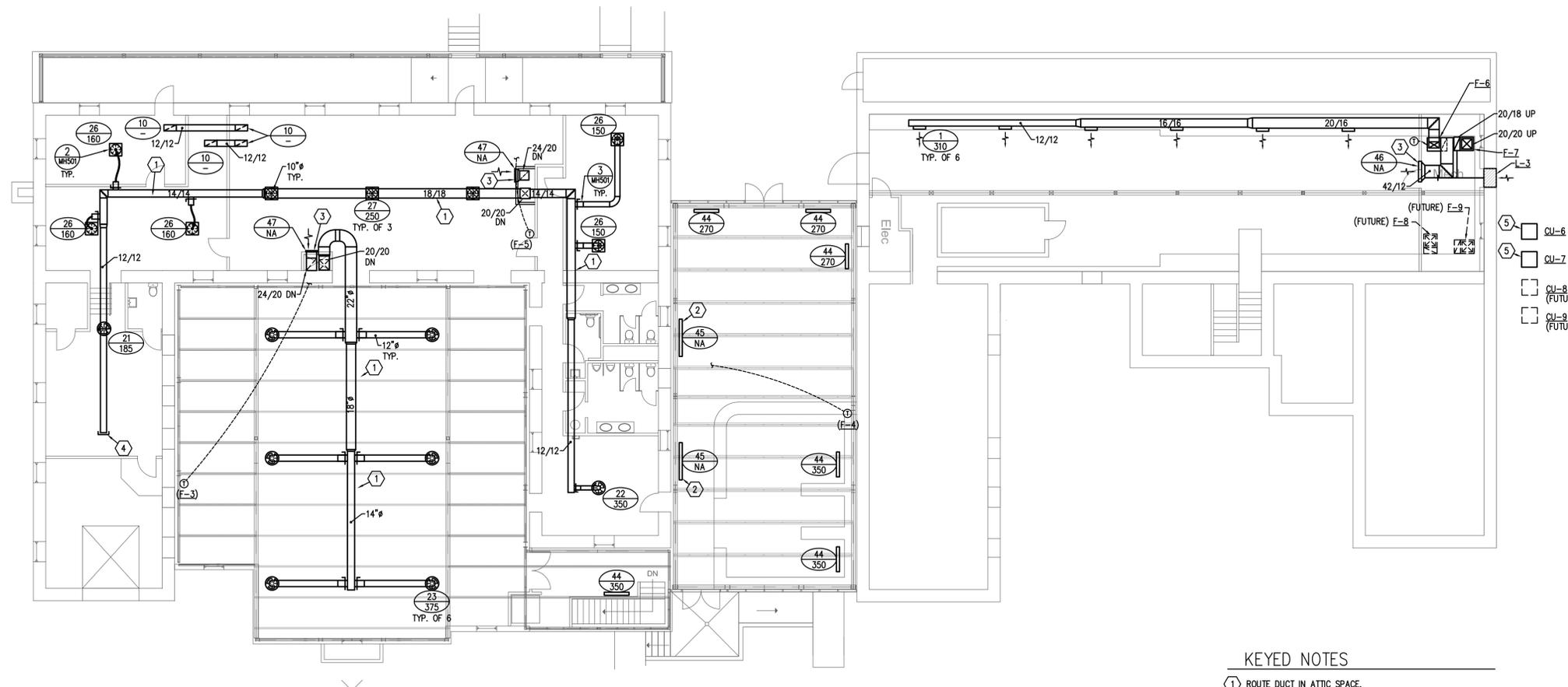
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DRAWN BY: T. ELKINGTON
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MAIN LEVEL
MECHANICAL PLAN

MH102



1 MAIN LEVEL MECHANICAL PLAN
SCALE: 3/32" = 1'-0"
6' 0' 4' 8' 12' 16' 24'

KEYED NOTES

- ① ROUTE DUCT IN ATTIC SPACE.
- ② RETURN AIR GRILLE.
- ③ INSTALL RETURN AIR GRILLE 12" A.F.F..
- ④ CAP FOR FUTURE CONNECTION.
- ⑤ PROVIDE CONCRETE PAD UNDER CONDENSING UNITS.

GENERAL NOTES

- Ⓐ REFER TO ARCHITECTURAL DRAWINGS FOR ROOM NAMES.

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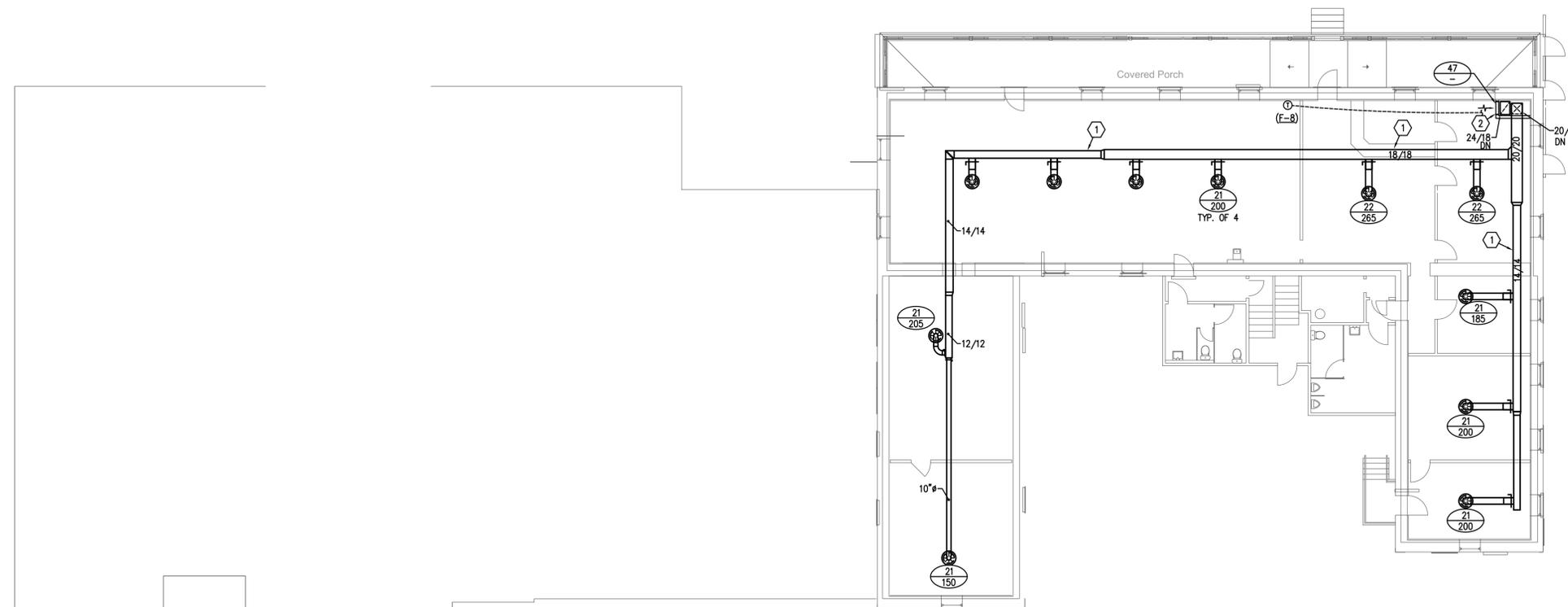
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UPPER LEVEL
MECHANICAL PLAN

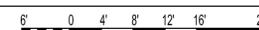
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KEYED NOTES

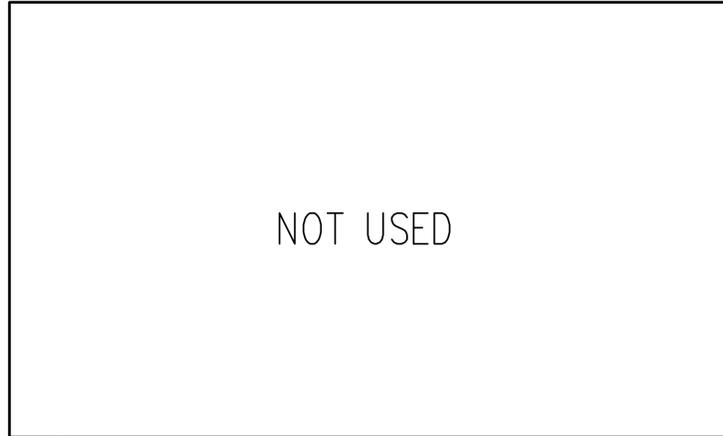
- ① ROUTE DUCT IN ATTIC SPACE.
- ② INSTALL RETURN AIR GRILLE 12" A.F.F..

1 UPPER LEVEL MECHANICAL PLAN
SCALE: 3/32" = 1'-0"

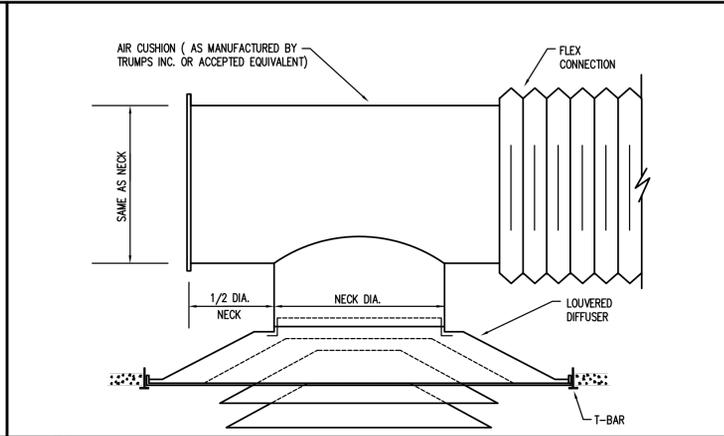


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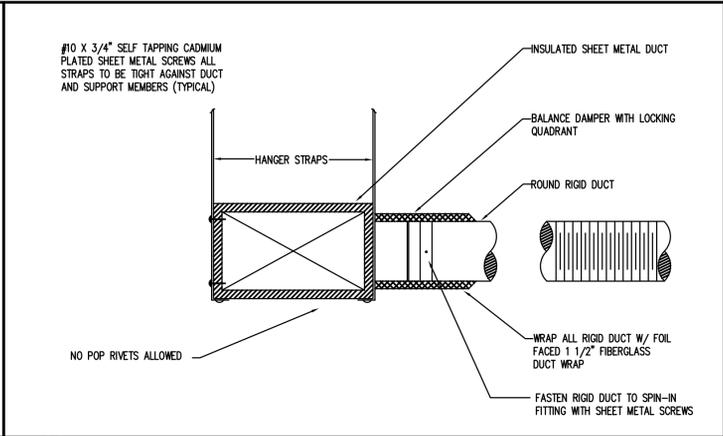
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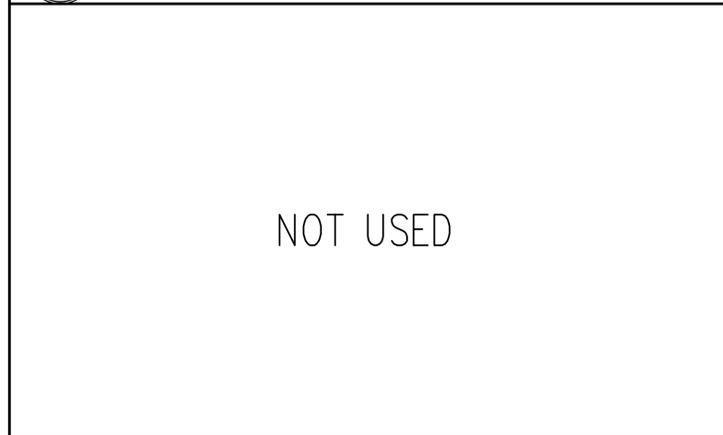
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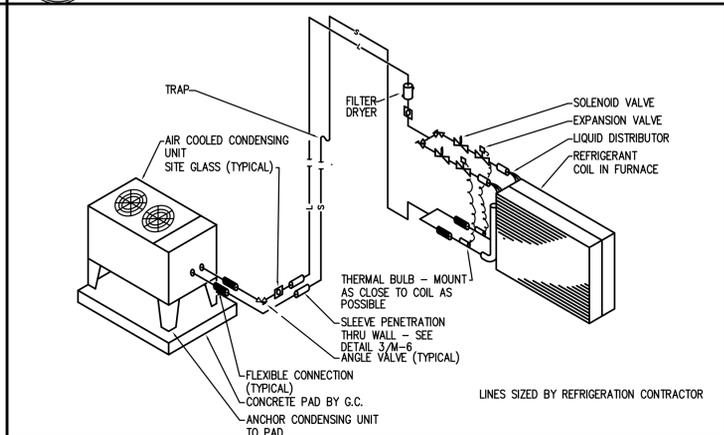
2 DIFFUSER AIR CUSHION DETAIL NO SCALE



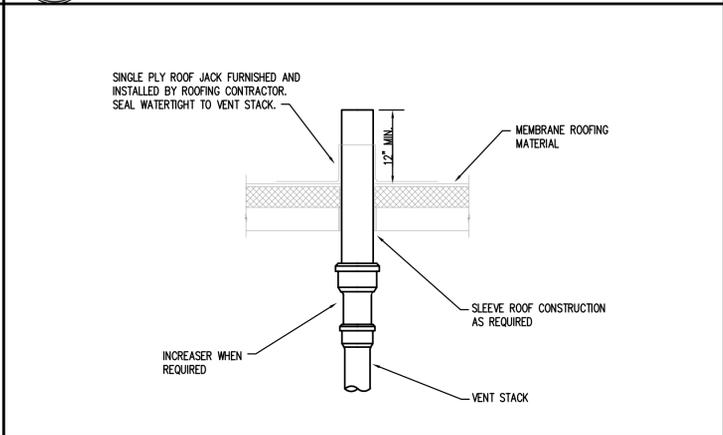
3 FLEX DUCT/SPIN-IN FITTING DETAIL NO SCALE



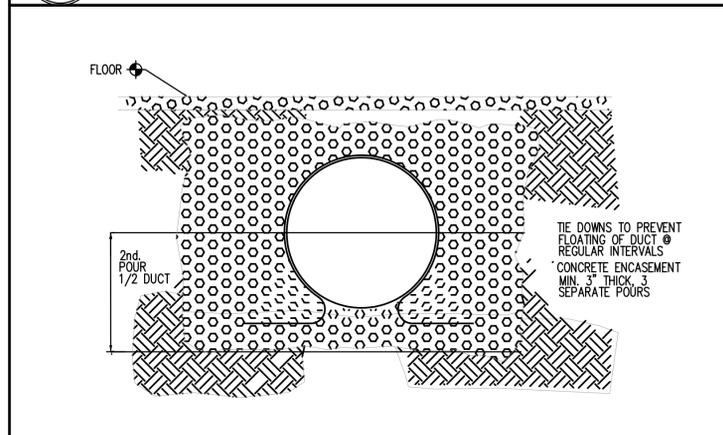
4 NO SCALE



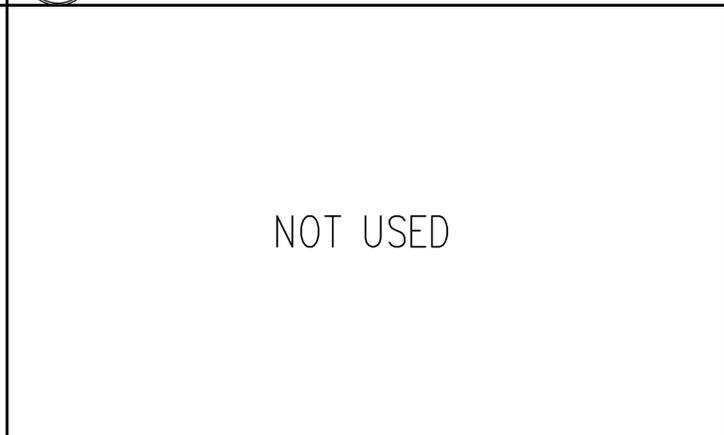
5 REFRIGERANT COIL CONNECTION DETAIL NO SCALE



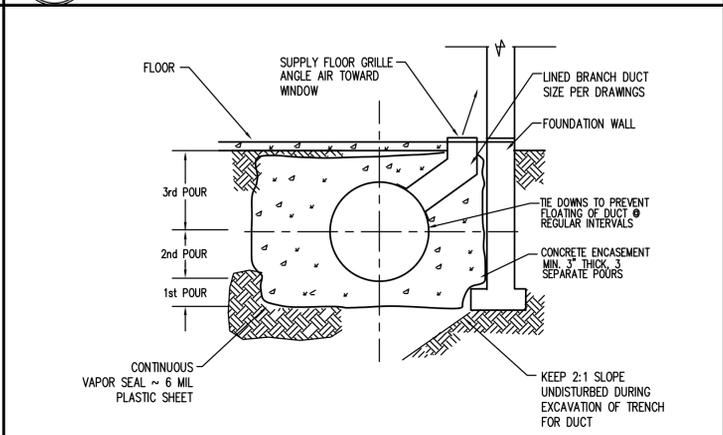
6 VENT THROUGH ROOF DETAIL NO SCALE



7 UNDERGROUND DUCT DETAIL NO SCALE



8 NO SCALE



9 UNDERGROUND DUCT SUPPLY TAKE-OFF NO SCALE

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PROJECT NO: 2005-062.00
CAD DWG FILE:
DRAWN BY: T. ELKINGTON
CHECKED BY: M. MARSHALL

MECHANICAL
DETAILS

MH501

GAS FURNACE SCHEDULE ③⑦										
PLAN CODE	MIN. OUTDOOR CFM	INPUT (MBH)	OUTPUT ① (MBH)	CFM AT ALTITUDE	EXT. S.P. IN W.G.	MOTOR		FAN SPEED	MANUFACTURER & MODEL NO.	REMARKS
						WATTS	V/P/HZ			
F-1	425	110	86.5	2270	9.9	1195	120/1	HIGH	LENNOX GS1MP-60C-110	③ ⑤⑥⑦ ⑨
F-2	425	110	86.5	2270	9.9	1195	120/1	HIGH	LENNOX GS1MP-60C-110	③ ⑤⑥⑦ ⑨
F-3	80	110	86.5	2270	9.9	1195	120/1	HIGH	LENNOX GS1MP-60C-110	③ ⑤⑥⑦ ⑨
F-4	50	88	68.9	1865	6	725	120/1	HIGH	LENNOX GS1MP-48C-090	②③④⑤ ⑦
F-5	80	110	86.5	2270	9.9	1195	120/1	HIGH	LENNOX GS1MP-60C-110	③ ⑤⑥⑦ ⑨
F-6	50	88	68.9	1865	6	725	120/1	HIGH	LENNOX GS1MP-48C-090	②③④⑤ ⑦
F-7	50	110	86.5	2270	9.9	1195	120/1	HIGH	LENNOX GS1MP-60C-110	③ ⑤⑥⑦ ⑨

- ① AT SEA LEVEL.
 ② INTAKE AND EXHAUST = 2"
 ③ PROVIDE PROGRAMMABLE THERMOSTAT
 ④ FILTER KIT# 87L96-18" X 25" X 1"
 ⑤ PROVIDE SMOKE DETECTOR MOUNTED IN RETURN AIR DUCT TO DEENERGIZE UNIT UPON DETECTION OF SMOKE.
 ⑥ INTAKE AND EXHAUST = 3"
 ⑦ PROVIDE CONCENTRIC VENT KIT
 ⑧ FILTER KIT# 87L97-20" X 25" X 1"
 ⑨ FILTER KIT# 87L98-25" X 25" X 1"
 ⑩ RETURN REQUIRED FROM BOTH SIDES OF UNIT

LOUVER SCHEDULE (L)						
PLAN CODE	AREA SERVED	CFM	VELOCITY FPM	FREE AREA SQ. FT.	MAX. DIMENSIONS (W x H) (IN)	MANUFACTURER & MODEL NO.
L-1	F-1, F-2, F-3, F-4, F-5	545	373	1.46	24" x 24"	RUSKIN ELF811DD
L-2	MULTI-PURPOSE RM RELIEF	850	375	2.27	36" x 24"	RUSKIN ELF811DD
L-3	F-6, F-7	990	436	2.27	36" x 24"	RUSKIN ELF811DD

COOLING COILS SCHEDULE ①							
PLAN CODE	CAPACITY ②		CONDITIONS ENT. EVAP		CFM	MAX PR IN WG	MANUFACTURER & MODEL NO.
	TOTAL MBH	SENS. MBH	DB DEG. F	WB DEG. F			
CC-1	48	-	82	62	1865	- ③	LENNOX C33-62D-2F
CC-2	48	-	82	62	1865	- ③	LENNOX C33-62D-2F
CC-3	58.5	-	82	62	2270	- ③	LENNOX C33-62D-2F
CC-4	48	-	82	62	2360	- ③	LENNOX C33-62D-2F
CC-5	48	-	82	62	2270	- ③	LENNOX C33-48C-2F
CC-6	48	-	82	62	2360	- ③	LENNOX C33-48C-2F
CC-7	48	-	82	62	2270	- ③	LENNOX C33-48C-2F

- ① PROVIDE WITH FACTORY COIL BOX AND COIL.
 ② SEA LEVEL RATING.
 ③ WET COIL.

AIR COOLED CONDENSING UNIT SCHEDULE ①②③④							
PLAN CODE	TONS	MCA	MOCP	ELECTRICAL			MANUFACTURER & MODEL NO.
				PH	VOLTS	HERTZ	
CU-1	4	23.5	40	3	208	60	LENNOX HS29-062-2Y
CU-2	4	23.5	40	3	208	60	LENNOX HS29-062-2Y
CU-3	5	23.5	40	3	208	60	LENNOX HS29-062-2Y
CU-4	5	23.5	40	3	208	60	LENNOX HS29-062-2Y
CU-5	3	14	20	3	208	60	LENNOX HS29-036-2Y
CU-6	5	23.5	40	3	208	60	LENNOX HS29-062-2Y
CU-7	5	23.5	40	3	208	60	LENNOX HS29-062-2Y

- ① REFRIGERANT R-22.
 ② 95 DEG. F OUTDOOR TEMPERATURE TO CONDENSER.
 ③ PROVIDE WITH LOW AMBIENT KIT.
 ④ PROVIDE VIBRATION ISOLATION PADS UNDER EACH CORNER OF UNIT. ANCHOR UNIT TO PAD SECURELY.

AIR DEVICE SCHEDULE (NOT ALL GRILLES USED)												
PLAN CODE	TYPE & DUTY	FACE SIZE	NECK SIZE	CEILING TYPE ②	MAX. CFM	MAX. T.P. (N. W.C.)	N.C. LEVEL MAX	MIN. THROW (FT) (T50)	4-WAY MIN. THROW (T50)	2-WAY MIN. THROW (T50)	MANUFACTURER & MODEL NO.	REMARKS
1	SIDEWALL SUPPLY	18" x 6"	20" x 8"	NA	315	0.016	15	12	-	-	TITUS 300RS	-
9	PERFORATED RETURN	24" x 24"	22" x 22"	MATCH CEILING	1200	0.05	17	-	-	-	TITUS PXP	-
10	PERFORATED RETURN	24" x 12"	22" x 10"	MATCH CEILING	600	0.06	10	-	-	-	TITUS PXP	-
15	PERFORATED EXHAUST GRILLE	12" x 12"	10" x 10"	MATCH CEILING	360	0.12	14	-	-	-	TITUS 8F	-
16	PERFORATED EXHAUST GRILLE	14" x 14"	12" x 12"	MATCH CEILING	550	0.12	16	-	-	-	TITUS 8F	-
21	RADIAL BLADE DIFFUSER	12"φ	8"φ	SURFACE	210	0.14	29	8	①	-	AIR DIFFUSION PRODUCTS, INC. DNR	-
22	RADIAL BLADE DIFFUSER	15"φ	10"φ	SURFACE	330	0.14	29	10	①	-	AIR DIFFUSION PRODUCTS, INC. DNR	-
23	RADIAL BLADE DIFFUSER	18"φ	12"φ	SURFACE	470	0.14	30	12	①	-	AIR DIFFUSION PRODUCTS, INC. DNR	-
26	RADIAL BLADE DIFFUSER	24" x 24"	8"φ	GRID	210	0.14	29	8	①	-	AIR DIFFUSION PRODUCTS, INC. DNR	-
27	RADIAL BLADE DIFFUSER	24" x 24"	10"φ	GRID	330	0.14	29	10	①	-	AIR DIFFUSION PRODUCTS, INC. DNR	-
28	RADIAL BLADE DIFFUSER	24" x 24"	12"φ	GRID	470	0.14	30	12	①	-	AIR DIFFUSION PRODUCTS, INC. DNR	-
24	RADIAL BLADE DIFFUSER	21"φ	14"φ	SURFACE	640	0.14	30	14	①	-	AIR DIFFUSION PRODUCTS, INC. DNR	-
44	BAR FLOOR DIFFUSER	4"	4" x L	-	150/FT	0.10	34	-	-	-	TITUS CT-480	-
45	BAR FLOOR DIFFUSER	6"	6" x L	-	230/FT	0.09	35	-	-	-	TITUS CT-480	-
46	SIDE WALL RETURN	44/14	42/12	-	1930	0.09	33	-	-	-	TITUS 25RFL	-
47	SIDE WALL RETURN	22/38	20/36	-	2355	0.06	27	-	-	-	TITUS 25RFS	-
48	SIDE WALL RETURN	50/14	48/12	-	2250	0.09	34	-	-	-	TITUS 25RFL	-

- ① RECOMMENDED MIN. DISTANCE BETWEEN DIFFUSERS IN 9' CEILING.
 ② VERIFY FRAME TYPE OF ALL AIR DEVICES WITH ARCHITECTURAL REFLECTED CEILING PLAN BEFORE ORDERING.

SEWAGE EJECTOR SCHEDULE (SE)										
PLAN CODE	PUMP			MOTOR			REMARKS	SUMP		
	FLOW (GPM)	HEAD (FT)	CONFIGURATION	MAKE/MODEL	VOLT/ PHASE	SIZE (HP)		DIAMETER (IN)	DEPTH (IN)	CONSTRUCTION
SE-1	25	50	DUPLEX SUBMERSIBLE GRINDER	WEIL 2439	208/1	1.5	PROVIDE PUMP AND HIGH LIMIT ALARMS	36	48	FIBERGLASS BASIN WITH 40" X .375" STEEL COVER SEALED WATER TIGHT

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 CAD DWG FILE:
 DRAWN BY: T. ELKINGTON
 CHECKED BY: M. MARSHALL

MECHANICAL
SCHEDULES

MH601

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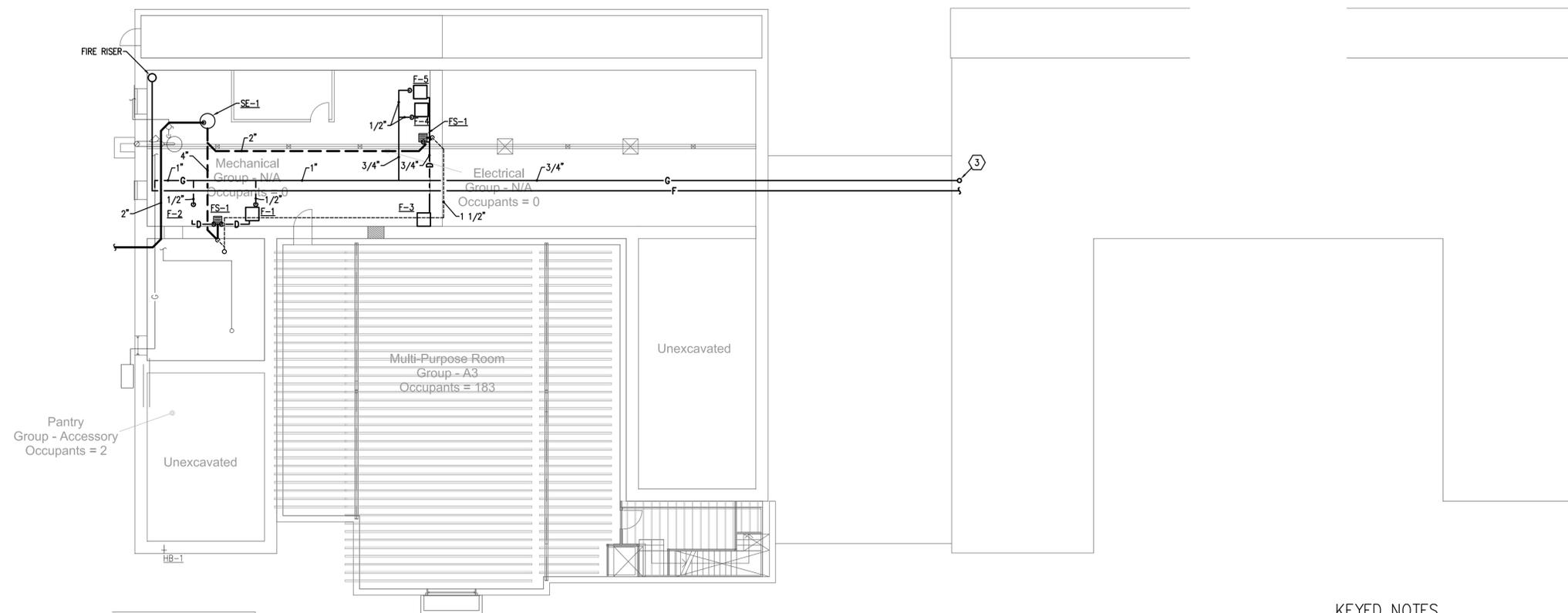
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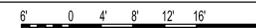
LOWER LEVEL
PLUMBING PLAN

PL101



1 LOWER LEVEL PLUMBING PLAN

SCALE: 3/32" = 1'-0"



KEYED NOTES

- ① CONNECT NEW VENT TO EXISTING.
- ② ROUTE CONDENSATE DRAIN BEHIND FURNACE UNITS.
- ③ SEE PL102 FOR CONTINUATION.

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KEYED NOTES

- ① ROUTE CONDENSATE DRAIN BEHIND FURNACE.
- ② CAP FOR FUTURE CONNECTION.

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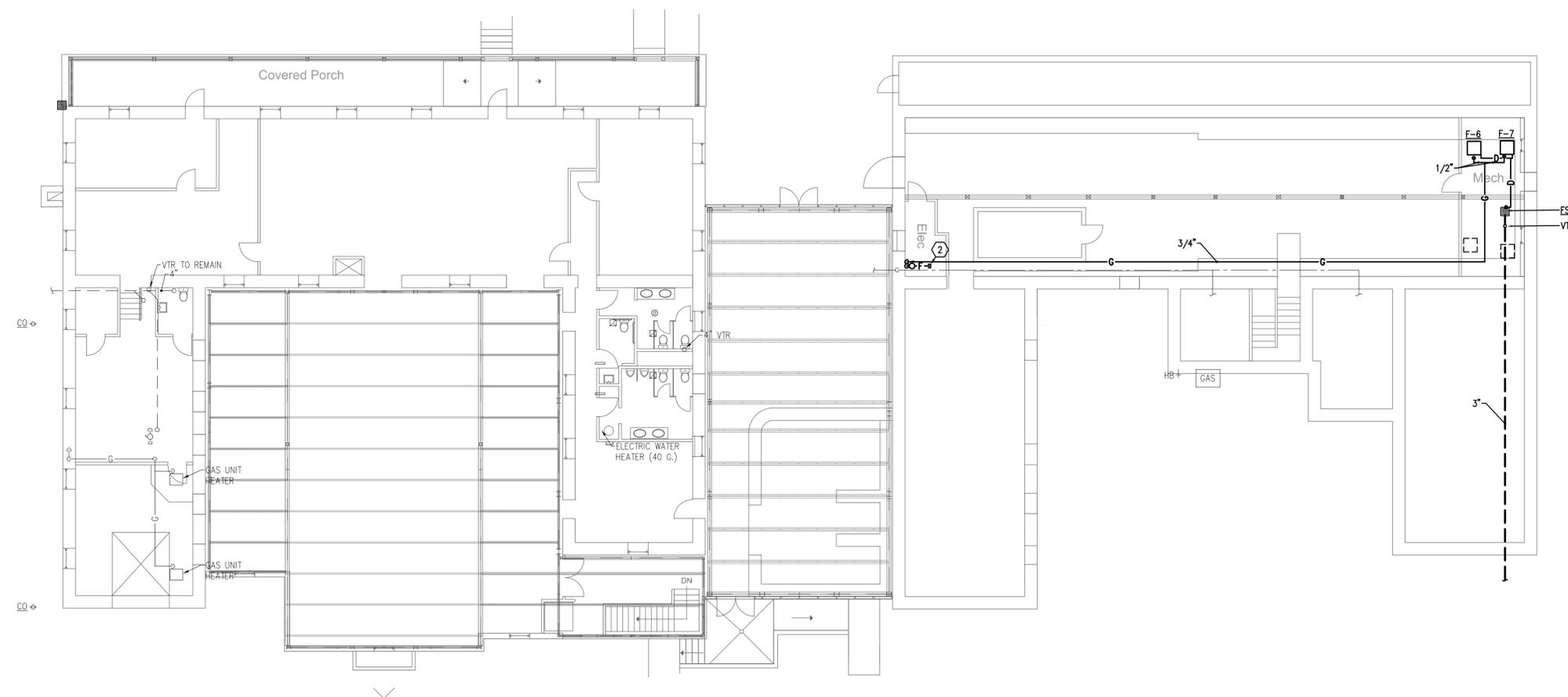
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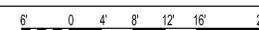
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MAIN LEVEL
PLUMBING PLAN

PL102



1 MAIN LEVEL PLUMBING PLAN
SCALE: 3/32" = 1'-0"



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GENERAL NOTES

- CONSULT ARCHITECTURAL REFLECTED CEILING PLANS FOR EXACT LOCATION OF ALL LIGHTING FIXTURES.
- VERIFY ALL EQUIPMENT DIMENSIONS AND LOCATIONS BEFORE BEGINNING ROUGH IN. CONSULT ALL APPLICABLE CONTRACT DRAWINGS AND SHOP DRAWINGS TO INSURE NEC CODE CLEARANCES REQUIRED AROUND ALL ELECTRICAL EQUIPMENT.
- CONTRACTOR SHALL VERIFY ALL ELECTRICAL LOADS (VOLTAGE, PHASE, CONNECTION REQUIREMENTS, ETC.) OF EQUIPMENT FURNISHED UNDER DIVISION 15 WITH APPROVED MECHANICAL SHOP DRAWINGS BEFORE BEGINNING ROUGH IN.
- SEE SECTION 16510 OF THE SPECIFICATION REQUIRED COORDINATION MEETINGS WITH MECHANICAL AND CEILING CONTRACTORS.
- SEE APPLICABLE SHOP DRAWINGS FOR ROUGH IN LOCATION OF ALL EQUIPMENT, WIRING DEVICES, ETC. WHERE APPLICABLE MOUNT ALL WIRING DEVICES ABOVE BACK SPLASH EXCEPT THOSE SERVING UNDER COUNTER EQUIPMENT.
- SEE SPECIFICATION FOR ENERGY SAVING LAMP AND BALLAST REQUIREMENTS.
- FINISHES OF ALL LIGHT FIXTURES SHALL BE AS SELECTED BY ARCHITECT.
- THE ELECTRICAL CONTRACTOR SHALL NOTIFY AND COOPERATE WITH THE MECHANICAL CONTRACTOR SUCH THAT NO PIPING, DUCTS, OR EQUIPMENT FOREIGN TO THE OPERATION OF THE ELECTRICAL EQUIPMENT SHALL BE PERMITTED TO BE INSTALLED IN, ENTER OR PASS THRU ELECTRICAL ROOMS OR SPACES, OR ABOVE OR BELOW ELECTRICAL EQUIPMENT IN OTHER AREAS.
- ELECTRICAL BOXES SHALL NOT BE LOCATED IN MASONRY COLUMNS IN BRICK WALLS OR IN GROUTED CELLS ADJACENT TO OPENINGS. COORDINATE LOCATION OF BOXES WITH MASONRY CONTRACTOR.
- ALL PENETRATIONS OF FIRE RATED FLOORS, WALLS, AND CEILINGS SHALL BE SEALED WITH APPROVED MATERIAL TO MAINTAIN FIRE RATING OF SURFACE PENETRATED.
- CIRCUITS EXTENDING OVER 70' FOR 120 VOLT AND 165' FOR 277 VOLT 20 AMP CIRCUITS SHALL BE RUN WITH MINIMUM #10 CONDUCTORS.

ELECTRICAL SYMBOL SCHEDULE

1. SEE FIXTURE SCHEDULE FOR TYPE, MOUNTING AND WATTAGE.
 2. HEIGHT MEASURED TO CENTER LINE OF THE BOX FROM THE FINISH FLOOR.
 3. REFER TO DRAWINGS FOR DIRECTIONAL ARROWS.
 4. SUBSCRIPT KEYS SWITCH TO FIXTURES CONTROLLED.
 5. NEMA TYPE "ND" NON-FUSED UNLESS NOTED "F" (FUSED). USE "HD" 480 V.
 6. HEIGHT TO BE THE LOWER OF EITHER 80" A.F.F. OR 6" BELOW CEILING.
 7. PROVIDE I.O.A. AND S.S. PUSHBUTTONS AS REQUIRED.
 8. DOUBLE ARROWS DENOTE A DOUBLE FACE UNIT.
 9. COORDINATE WITH MILLWORK SHOP DRAWINGS AND ELEVATIONS FOR HEIGHT.
 10. SUBSCRIPT DENOTES NEMA CONFIGURATION.
 11. HEIGHT MEASURED TO BOTTOM OF THE BOX FROM FINISH FLOOR.

STANDARD MOUNTING HEIGHT UNLESS OTHERWISE NOTED ON PLANS

SYMBOL	DESCRIPTION	MOUNTING HEIGHT	NOTES
→	ONE CIRCUIT, TWO WIRE HOME RUN TO PANEL		
→→	2 CIRCUIT, 3 WIRE, COMMON NEUTRAL HOME RUN		
→→→	3 CIRCUIT, 4 WIRE, COMMON NEUTRAL HOME RUN		
—	CONDUIT RUN CONCEALED IN WALL OR CEILING		
○	PENDANT LIGHT FIXTURE	AS NOTED	1.
○	WALL LIGHT FIXTURE	AS NOTED	1.
□	FLOUORESCENT LIGHT FIXTURE	AS NOTED	1
□	FLOUORESCENT EGRESS LIGHT FIXTURE	AS NOTED	UNSWITCHED
□	FLOOD OR TRACK FIXTURE	AS NOTED	
⊗	CEILING MOUNTED EXIT LIGHT	CEILING	1.3.B.
⊗	WALL MOUNTED EXIT LIGHT	AS NOTED	1.3.B.
⊕	SINGLE POLE SWITCH	+4'-0"	2.
⊕	LOW VOLTAGE SWITCH	+4'-0"	2.
⊕	OCCUPANCY SENSOR	CEILING	
⊕	POWER PACK	CEILING	SEE DIAGRAM, SPEC.
⊕	DUPLEX RECEPTACLE	+16" OR AS NOTED	9. 11.
⊕	FLOOR OUTLET WITH 20A DEVICE	FLOOR	
⊕	MULTIPLE SERVICE FLOOR BOX	FLOOR	
⊕	PHOTO-ELECTRIC CONTROL	AS NOTED	TORK 2000A
⊕	NON-FUSED DISCONNECT SWITCH	+5'-0"	5.
⊕	FUSED DISCONNECT SWITCH	+5'-0"	5.
⊕	MANUAL STARTER THERMAL OVERLOAD SWITCH WITH PILOT LIGHT	+4'-0"	2.
⊕	PANEL BOARD	TOP AT +6'-0"	
⊕	MAIN DISTRIBUTION PANEL		
⊕	TELEPHONE TERMINAL BOARD		
⊕	FIRE ALARM MANUAL STATION	+4'-0"	2.
⊕	FIRE ALARM SIGNAL HORN/STROBE	+6'-8"	6.
⊕	SMOKE DETECTOR	CEILING	
⊕	DUCT SMOKE DETECTOR		MTD. IN DUCT
⊕	HEAT DETECTOR	CEILING	
⊕	SECURITY SYSTEM DOOR SWITCH	DOOR JAMB	
⊕	SECURITY MOTION DETECTOR		MOUNT AS PER. MAN
⊕	ARCHITECTURAL ROOM NUMBER		
⊕	LIGHT FIXTURE (LETTER DESIGNATES TYPE)		
⊕	EQUIPMENT NUMBER		

FIXTURE SCHEDULE

TYPE	DESCRIPTION	CATALOG NUMBER	VOLTS	LAMPS
BG	ARCHITECTURAL EMERGENCY BATTERY LIGHT CEILING MOUNT, WHITE FINISH (EXHIBITS)	LIGHTOLIER EL2-W-NIMH	120	INCLUDED
C	LINEAR FLUORESCENT PENDANT ASYMETRIC REFLECTOR, PENDANT HUNG FLUORECENT TUBES TO HAVE UV TUBE GUARDS SEE PLANS FOR EMERGENCY BATTERY SECTIONS TITANIUM FINISH (LOBBY)	FOCAL POINT FEVS-PL-278-1C-120-S-C48-EM-TS	120	(2) F032/835/XPS/ECO PER 4 FT SECTION
IB	8' INDUSTRIAL WITH 10% UPLIGHT 2 LAMP T8 CROSS SECTION (STORAGE, MECH,ELECT)	METALUX 8T-DI-2-32-GL-EBB1	120	(4) F032/835/XPS/ECO
IBE	SAME AS IB EXCEPT WITH 1400 LUMEN EM BATTERY PACK (STORAGE, MECH,ELECT)	METALUX 8T-DI-2-32-GL-EBB1-EM	120	(4) F032/835/XPS/ECO
P	DECORATIVE FIXTURE PENDANT HUNG (1) 70 WATT MH T6 G12 (LOBBY)	BEGA 6534MH-UV FILTER LENS	120	(1) 70W T6 G12 MH
P2	DECORATIVE FIXTURE PENDANT HUNG (1) 60 WATT HALOGEN INCANDESCENT (GIFT SHOP)	OXYGEN 2-649-14	120	(1) 100 MB CAP HALOGEN
SC1	EXTERIOR SOURCE WITH INTEGRAL COLD WEATHER EMERGENCY BATTERY (EXTERIOR EXITS)	GARDCO 101EM-F2-2260F-120-SCBA	120	(2) CF260T/E/IN/835
T	MUSEUM GRADE TRACK, WHITE FINISH 2 CIRCUIT WITH SEPARATE NEUTRAL 50% OF HEADS TO BE 100 PAR 38 WITH GLARE HOOD PROVIDE HALF WITH 5 X 50 DEGREE SPREAD LENS PROVIDE HALF WITH 50 X 50 DEGREE SPREAD LENS 25% OF HEADS TO BE 75AR11 WITH UV FILTER PROVIDE HALF WITH 5 X 50 DEGREE SPREAD LENS PROVIDE HALF WITH 50 X 50 DEGREE SPREAD LENS 25% OF HEADS TO BE 200 WATT T3 WITH UV FILTER	LSI 32000 SERIES TRACK WITH ALL PARTS AND ACCESSORIES FOR A COMPLETE AND OPERABLE SYSTEM LSI 290-00 WITH GLARE HOOD C AND UV FILTER C962 LSI C990 LSI C995 LSI LN36-00F-C962 LSI A990 LSI A995 LSI QM201-00 QM2962 LITELAB EQUAL ERCO EQUAL	120	1/2 OF FIXTURES WITH 100HIRPAR38SP10 1/2 OF FIXTURES WITH 100HIRPAR38FL25 (1) 75AR11FL PER HEAD (1) 200T3/CL PER HEAD
X1	DIE CAST LED EXIT, GREEN LETTERS SEE PLANS FOR ARROWS AND MOUNTING	LIGHTOLIER DX-1-G-X-SCBA	120	LED INCLUDED

DEMOLITION NOTES

- COORDINATE ALL NEW ELECTRICAL EQUIPMENT REQUIREMENTS AND MAKE CONNECTION TO EXISTING SYSTEMS. THIS INCLUDES LIGHTING, POWER, SIGNAL, RACEWAY AND OTHER SYSTEMS INCLUDED UNDER DIVISION 16.
- RELOCATE, REWIRE AND/OR RECONNECT EXISTING ELECTRICAL DEVICES AND/OR EQUIPMENT THAT FOR ANY REASON OBSTRUCTS CONSTRUCTION.
- CONCEAL ALL RACEWAY AND WIRING IN EXISTING WALLS, CEILINGS, FLOORS, ETC. EXCEPT WHERE THE USE OF SURFACE METAL RACEWAYS (E.G. WIRE MOLD) IS INDICATED ON DRAWINGS OR IN SPEC.
- LEAVE ALL EXISTING EQUIPMENT, IN PORTIONS OF THE BUILDING NOT BEING REMODELED, IN WORKING CONDITION. RESTORE ALL INTERRUPTED BRANCH CIRCUITS, FEEDERS, ETC. TO WORKING CONDITION.
- EXISTING RACEWAYS MAY BE REUSED (IN PLACE) WHERE POSSIBLE, AND WHERE IN COMPLIANCE WITH THE SPECIFICATIONS AND THE INTENT OF THE CONTRACT DOCUMENTS. INSURE INTEGRITY OF EXISTING RACEWAY BEFORE REUSE.
- REMOVE ALL RACEWAYS, CONDUCTORS, BOXES, DEVICES, EQUIPMENT, ETC. THAT ARE NOT TO BE REUSED.
- REMOVE EXISTING LIGHT FIXTURES WHICH ARE NOT TO BE REUSED, PLACE IN CARTON, LABEL APPROPRIATELY, AND RETURN TO OWNER, OR PROPERLY DISPOSE OF FIXTURES THAT THE OWNER CHOOSES NOT TO KEEP.
- DO NOT PENETRATE STRUCTURAL ELEMENTS OF FLOORS, WALLS, CEILINGS, ROOFS, ETC.
- DISCONNECT AND RECONNECT ANY/ALL FIXTURES, DEVICES, EQUIPMENT, ETC. REQUIRED FOR PROPER COMPLETION OF THE WORK.

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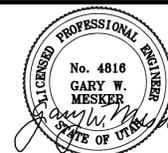
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DD	12-01-05	DD SUBMITTAL

PROJECT NO: B05-027
BNA PROJ NO: 05308A
DRAWN BY: BNA
CHECKED BY: GM

SYMBOLS,
SCHEDULES
& NOTES

EG101
SHEET OF

NOT FOR CONSTRUCTION

GENERAL SHEET NOTES

1. MAINTAIN EXISTING LIGHTING, SWITCHING, AND LIGHTING CIRCUIT IN OPERATION DURING DEMOLITION UNTIL NEW LIGHTING IS IN PLACE.

SHEET KEYNOTES

- ① NOT USED.
- ② REMOVE EXISTING LIGHT SWITCH.
- ③ REMOVE EXISTING LIGHT FIXTURE AND LIGHTING SWITCH LEG CONDUIT AND WIRING. EXISTING LIGHTING CIRCUIT FEED TO REMAIN.

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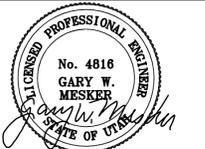
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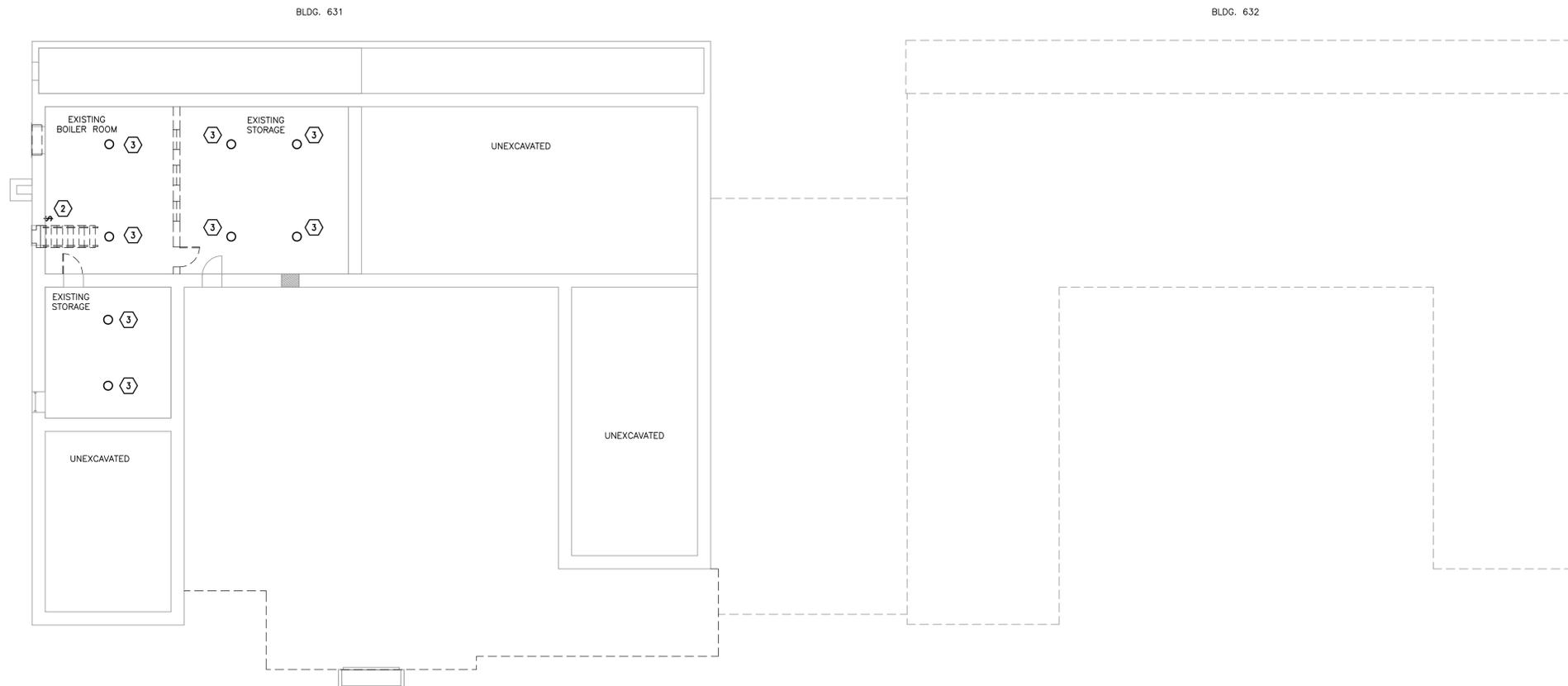
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BNA PROJ NO: 05308A
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DEMOLITION PLAN
LOWER LEVEL

ED101

SHEET OF



PLAN NORTH
DEMOLITION PLAN
LOWER LEVEL
3/32" = 1'-0"

NOT FOR CONSTRUCTION



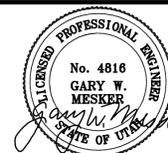
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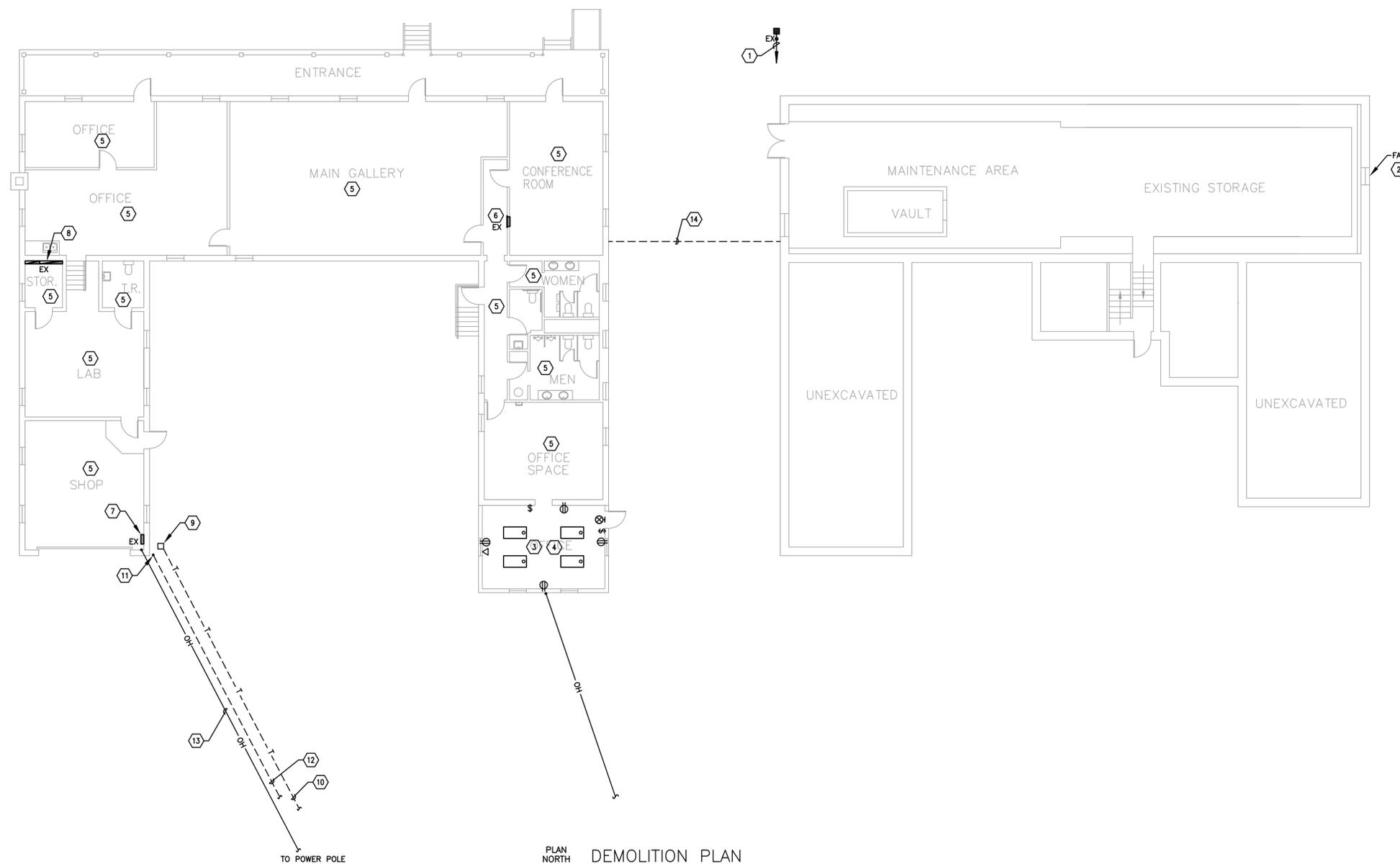
DEMOLITION PLAN
MAIN LEVEL

ED102

SHEET OF

SHEET KEYNOTES

- 1 EXISTING LIGHT POLE OVERHEAD FEED TO BE REMOVED.
- 2 DISCONNECT AND REMOVE EXISTING WINDOW EXHAUST FAN. MAINTAIN EXISTING CIRCUIT IN OPERATION.
- 3 REMOVE EXISTING LIGHTING, SWITCHING AND ASSOCIATED PORTION OF LIGHTING CIRCUIT.
- 4 REMOVE EXISTING RECEPTACLES, OUTLETS AND ASSOCIATED PORTION OF CIRCUIT CONDUIT AND WIRING.
- 5 EXISTING ELECTRICAL TO REMAIN, INCLUDING LIGHTS, RECEPTACLES, OUTLETS, TELE/DATA, SECURITY DEVICES AND ASSOCIATED CONDUIT AND WIRING.
- 6 EXISTING PANEL EP-1 TO REMAIN.
- 7 EXISTING PANEL EP-2 TO REMAIN.
- 8 EXISTING TELEPHONE TERMINAL BOARD, TELEPHONE AND DATA EQUIPMENT, AND TELEPHONE/DATA CABLING TO REMAIN.
- 9 EXISTING TELEPHONE COMPANY PEDESTAL.
- 10 EXISTING UNDERGROUND TELEPHONE SERVICE CABLE (EXTENDS TO PEDESTAL AT BUILDING 35).
- 11 EXISTING EMPTY 4" CONDUIT STUB-UP.
- 12 EMPTY 4" CONDUIT EXTENDS TO BUILDING 35 (STUBS UP AT BUILDING 35 PEDESTAL).
- 13 EXISTING OVERHEAD POWER SERVICE CABLE TO REMAIN.
- 14 EXISTING BURIED PIPE WITH TELEPHONE, DATA AND SECURITY SYSTEM CABLES IS TO REMAIN.



NOT FOR CONSTRUCTION

SHEET KEYNOTES

- ① DISCONNECT POWER TO EXISTING EVAPORATIVE COOLER.
- ② DISCONNECT POWER TO EXISTING EXHAUST FAN.
- ③ REMOVE PORTION OF CONDUIT AND WIRE ABOVE ROOF, PROVIDE JUNCTION BOX IN ATTIC TO TERMINATE EXISTING CIRCUIT WIRING.

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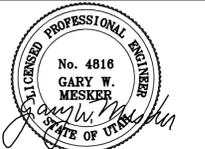
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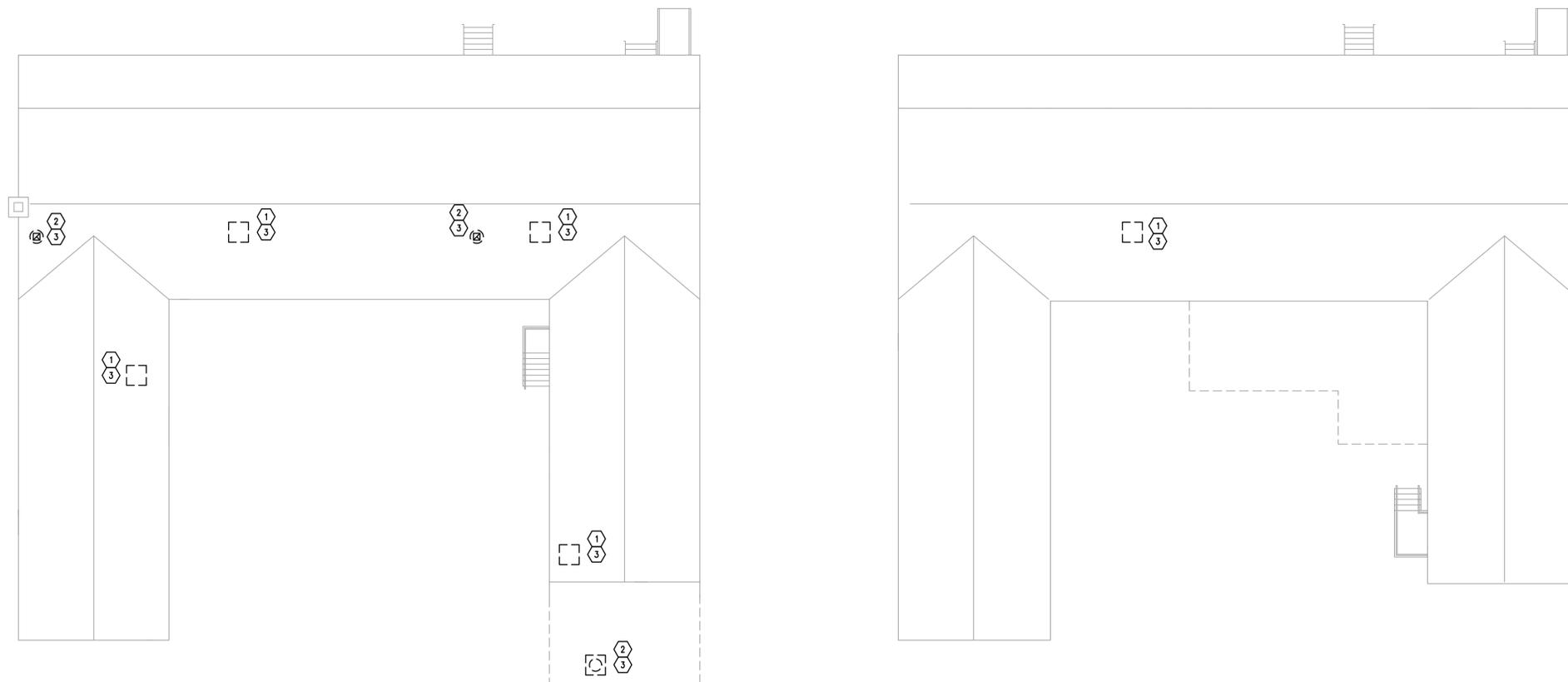
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DEMOLITION
PLAN ROOF
LEVEL

ED104

SHEET OF

SHEET KEYNOTES

- ① EXTEND A HOT CONDUCTOR AHEAD OF THE SWITCH TO THE EMERGENCY BATTERY PACK. USE SAME CIRCUIT PROVIDED FOR NORMAL OPERATION OF FIXTURES.
- ② SET ULTRA SONIC SENSOR.

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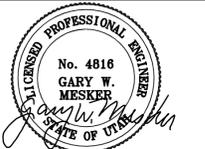
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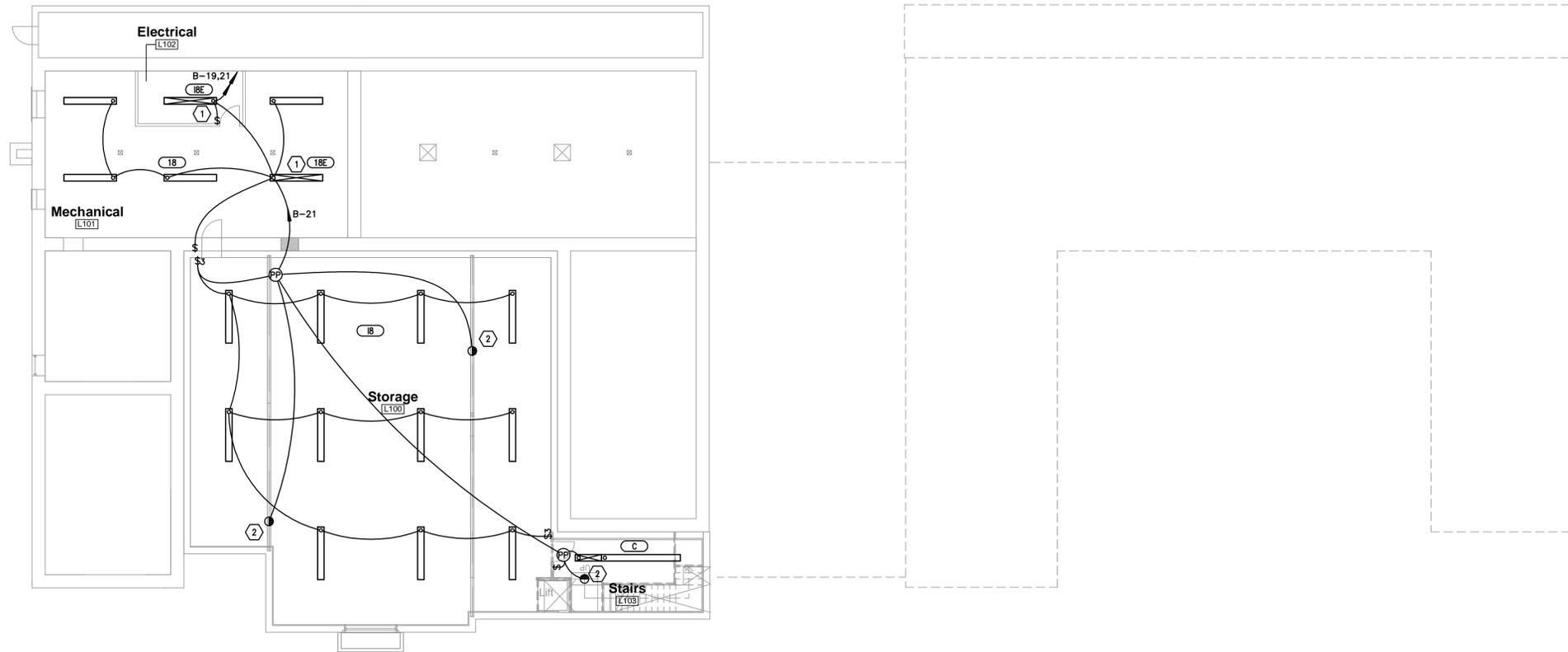
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PLAN NORTH LIGHTING PLAN LOWER LEVEL
3/32" = 1'-0"

NOT FOR CONSTRUCTION

EL101
SHEET OF

SHEET KEYNOTES

- 1 NOT USED.
- 2 EXTEND A HOT CONDUCTOR AHEAD OF THE SWITCH TO EMERGENCY BATTERY PACK. USE SAME CIRCUIT PROVIDED FOR NORMAL OPERATION OF FIXTURES.
- 3 CIRCUITED THRU LIGHTING CONTROL SYSTEM, CONTROLLED AT CENTRAL SWITCH BANK LOCATED AT LOBBY RECEPTION.
- 4 6 BUTTON DIGITAL SWITCH. SEE SWITCH SCHEDULE ON EX202.
- 5 MOUNT TRACK TO BOTTOM OF RAFTERS. SEE ROOF FRAMING PLAN S103.
- 6 MICRO RELAY PANEL, LOCATE ON CEILING BETWEEN RAFTERS.
- 7 ROUTE EXTERIOR LIGHTING THROUGH RELAY AND PHOTO-CELL.
- 8 MOUNT TO BOTTOM OF RAFTERS.
- 9 MOUNT BOTTOM OF FIXTURE AT 10'.
- 10 1 BUTTON DIGITAL SWITCH. SEE SWITCH SCHEDULE ON EX202.

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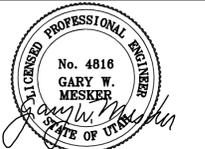
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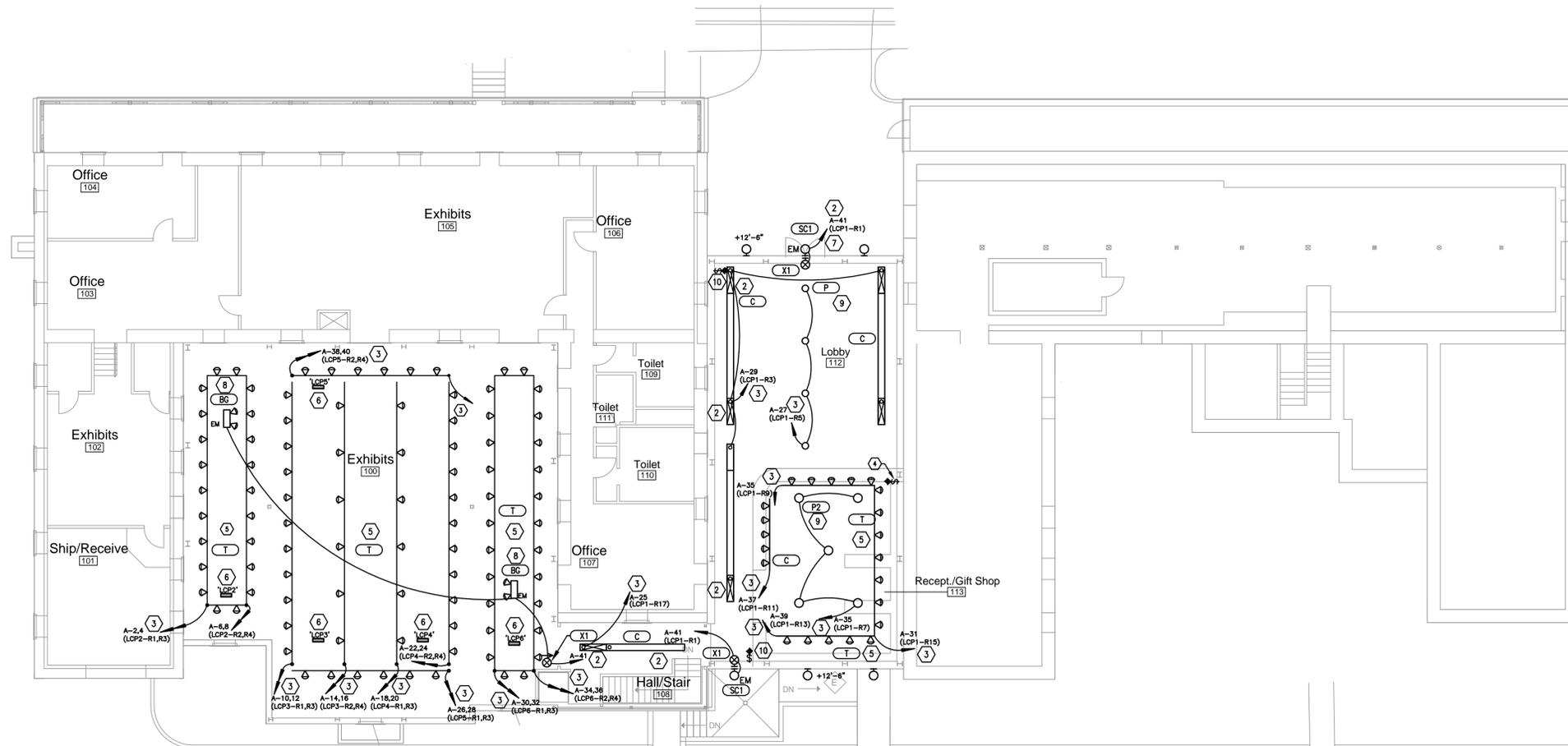
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PLAN NORTH LIGHTING PLAN
MAIN LEVEL
3/32" = 1'-0"

NOT FOR CONSTRUCTION

LIGHTING PLAN
MAIN LEVEL

EL102

SHEET OF

SHEET KEYNOTES

- ① MOUNT CT/METERING ENCLOSURE TO EXTERIOR WALL.
- ② (3) 3" CONDUITS AND SERVICE CONDUCTORS TO PAD MOUNTED TRANSFORMER.
- ③ CAT 3 TELE CABLE IN 3/4" C. TO EXISTING TERMINAL BOARD IN STORAGE ROOM ON MAIN LEVEL. CONNECT TO SPARE PAIR OF INCOMING TELEPHONE SERVICE.
- ④ MAKE CONNECTIONS TO LIFT CONTROL. COORDINATE WITH LIFT INSTALLER AND EQUIPMENT SHOP DRAWINGS.
- ⑤ RIGID CONDUIT, RUN OVERHEAD THROUGH MECHANICAL ROOM.

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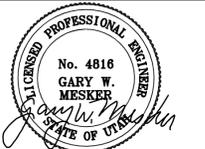
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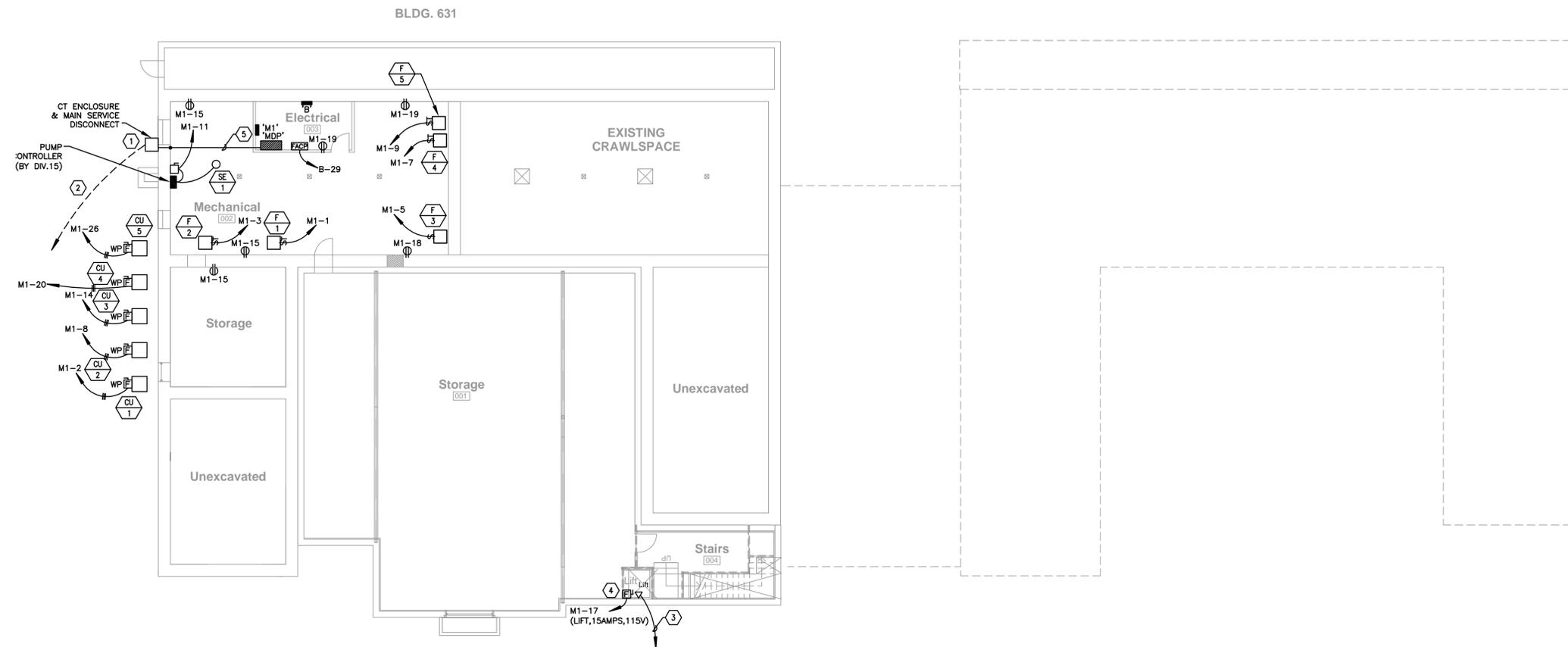
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PROJECT NO: B05-027
BNA PROJ NO: 05308A
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POWER PLAN
LOWER LEVEL

EP101

SHEET OF



PLAN NORTH
POWER PLAN
LOWER LEVEL
3/32" = 1'-0"

NOT FOR CONSTRUCTION

SHEET KEYNOTES

- 1 EXISTING TELEPHONE BOARD. EQUIPMENT AND CABLING TO REMAIN.
- 2 EXISTING 225 AMP PANEL TO REMAIN.
- 3 EXISTING PANEL (150A MCB) TO REMAIN.
- 4 LOCATE RELAY PANEL 'LCP1' ABOVE PANEL 'A'.

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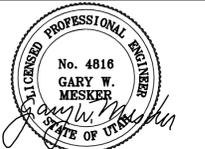
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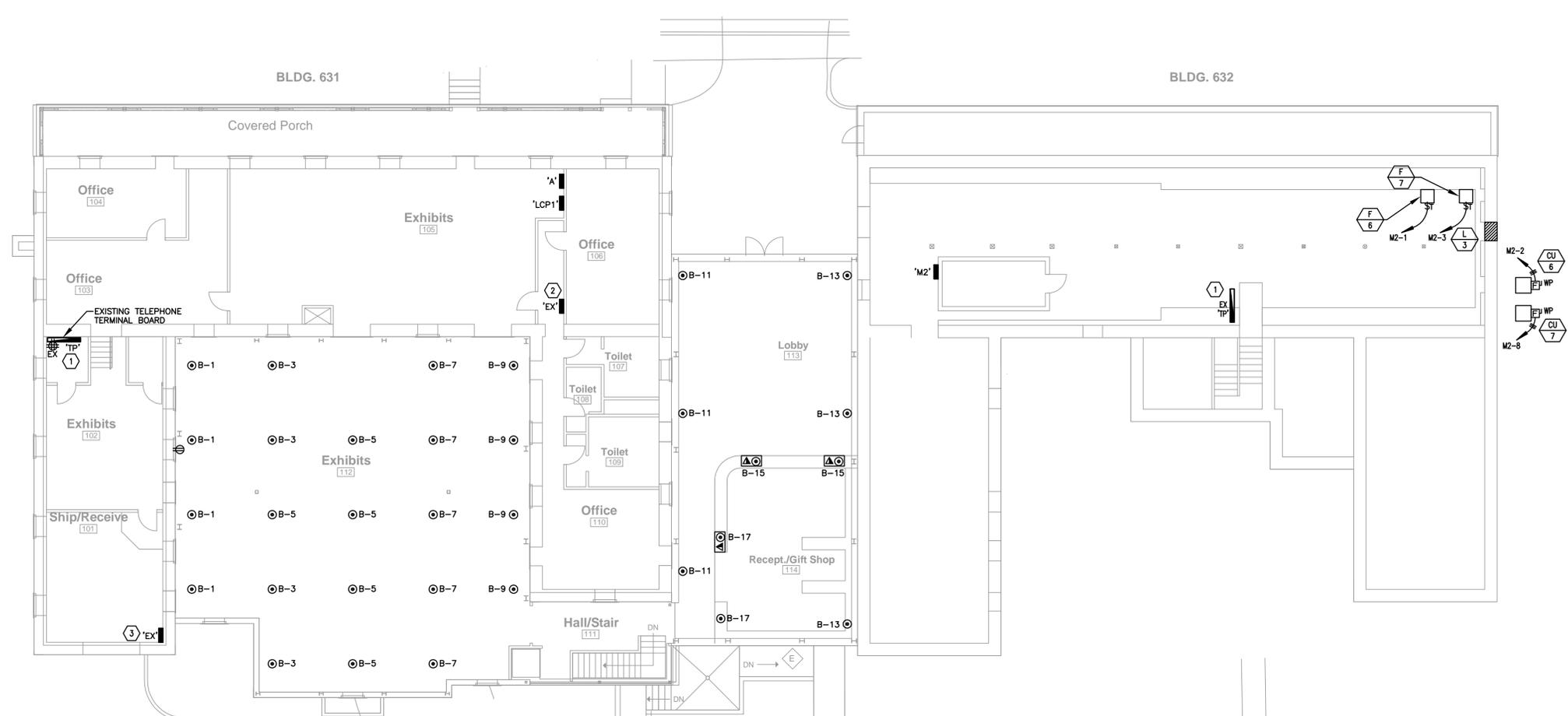
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PLAN NORTH
POWER PLAN
MAIN LEVEL
SCALE: 3/32" = 1'-0"

NOT FOR CONSTRUCTION

POWER PLAN
MAIN LEVEL

EP102

SHEET OF

SHEET KEYNOTES

- ① EXISTING PANEL TO REMAIN.
- ② EXISTING FIRE ALARM PANEL TO REMAIN.
- ③ PROVIDE FIRE ALARM WIRING AND CONDUIT TO NEW FIRE ALARM CONTROL PANEL IN BUILDING 631 LOWER LEVEL FOR INTERCONNECTION OF PANELS.

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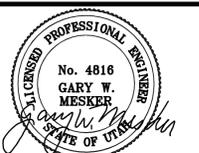
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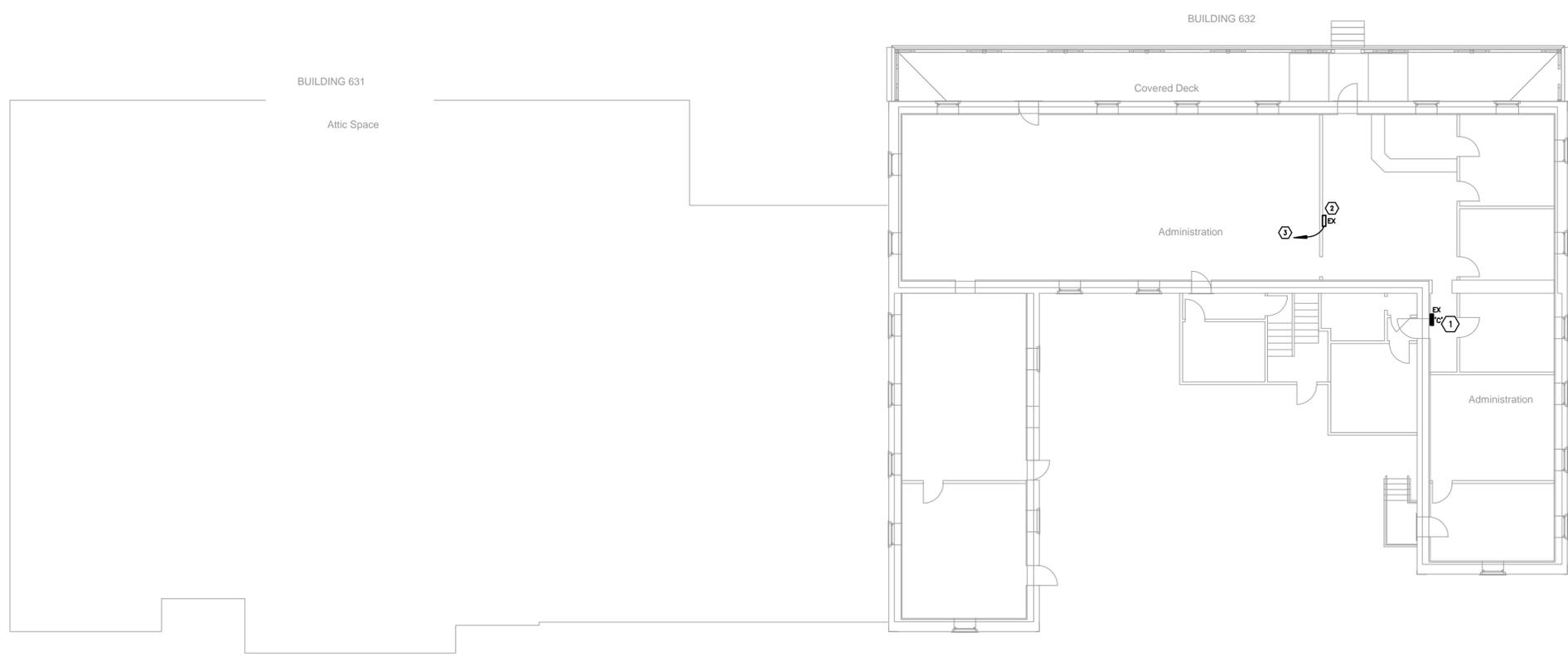
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BNA PROJ NO: 05308A		
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CHECKED BY: GM		

POWER PLAN
UPPER LEVEL

EP103
SHEET OF



PLAN NORTH
POWER PLAN
UPPER LEVEL
3/32" = 1'-0"

NOT FOR CONSTRUCTION

By: ccd1, Apr 17, 2006 - 5:19pm
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SHEET KEYNOTES

- ① 3/4" CONDUIT AND SECURITY CABLING TO EXISTING SECURITY PANEL IN BUILDING 632 VAULT.
- ② PROVIDE DUCT DETECTOR IN FURNACE RETURN AIR DUCTS FOR FURNACES F-1, F-2, F-3 AND F-5.

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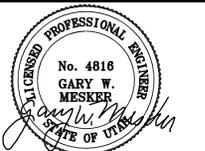
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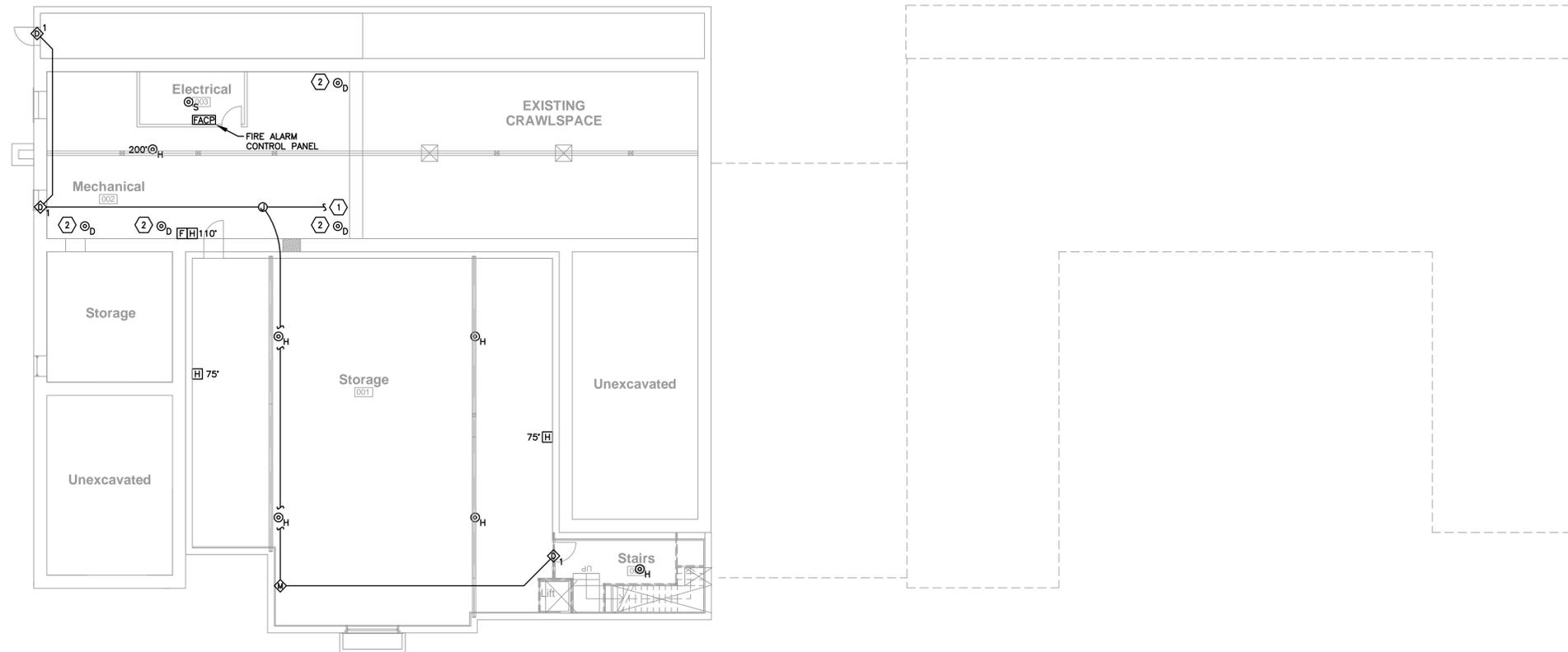
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BNA PROJ NO: 05308A
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CHECKED BY: GM

FIRE ALARM AND
SECURITY
SYSTEMS PLAN
LOWER LEVEL

EY101

SHEET OF

BLDG. 631



PLAN NORTH
SYSTEMS PLAN
LOWER LEVEL
3/32" = 1'-0"

NOT FOR CONSTRUCTION

GENERAL SHEET NOTES

- CUT AND PATCH EXISTING CEILINGS IN BUILDING 631 AS REQUIRED TO INSTALL FIRE ALARM DEVICES. RUN CONDUIT IN ATTIC SPACES.

SHEET KEYNOTES

- 3/4" CONDUIT AND SECURITY CABLING TO EXISTING SECURITY PANEL IN BLDG. 632 VAULT.
- PROVIDE DUCT DETECTORS IN TWO RETURN AIR DUCT FOR FURNACE F-6.
- PROVIDE DUCT DETECTOR IN FURNACE F-7 RETURN DUCT.

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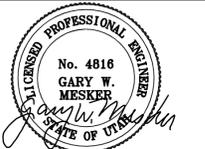
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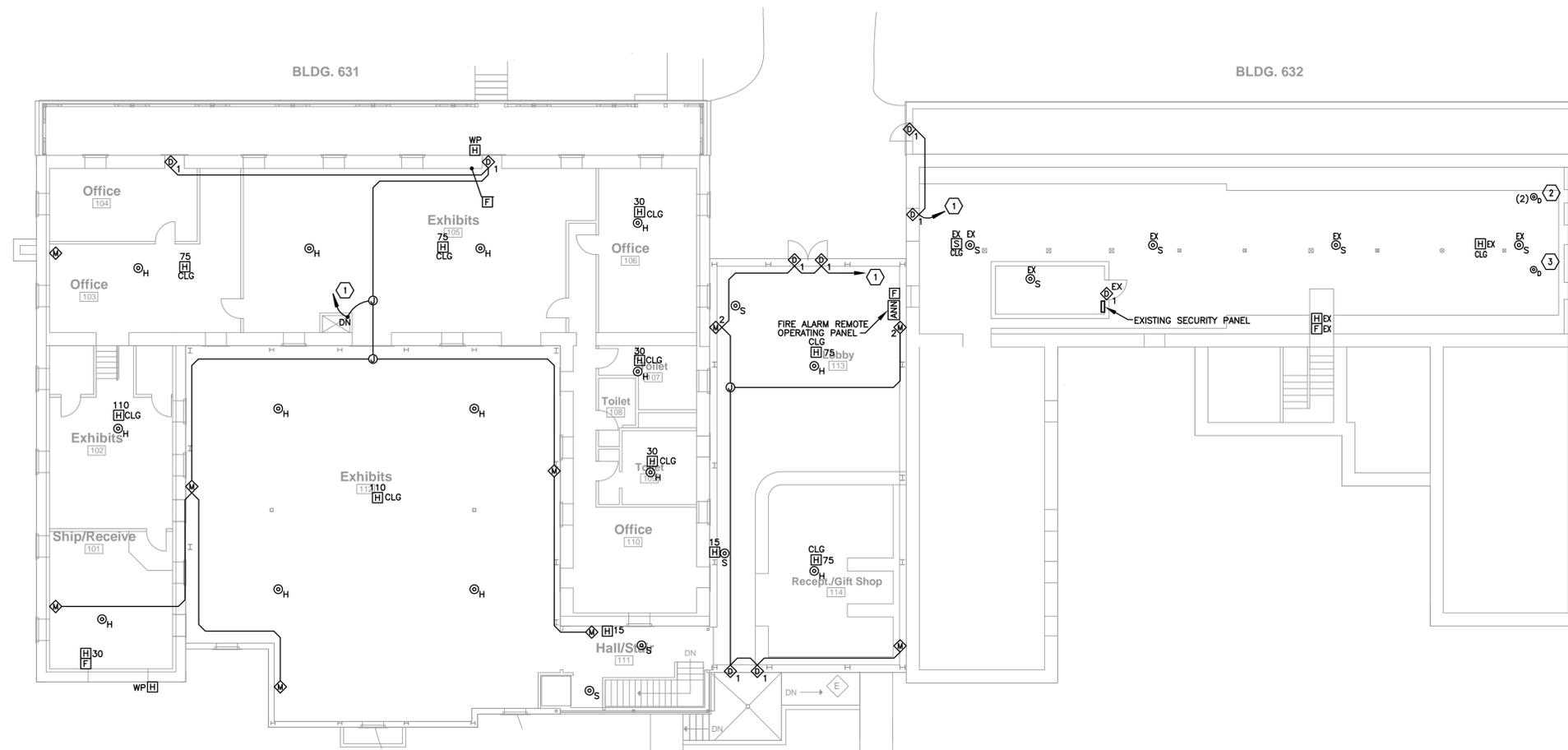
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FORT DOUGLAS, UT 84113



PLAN NORTH
FIRE ALARM AND SECURITY PLAN MAIN LEVEL
SCALE: 3/32" = 1'-0"

NOT FOR CONSTRUCTION

FIRE ALARM AND SECURITY PLAN
MAIN LEVEL

EY102

SHEET OF

SHEET KEYNOTES

① PROVIDE HEAT DETECTORS IN THE ATTIC SPACE OF BUILDING 631.

COOPER
ROBERTS
SIMONSEN
ARCHITECTURE



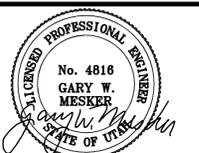
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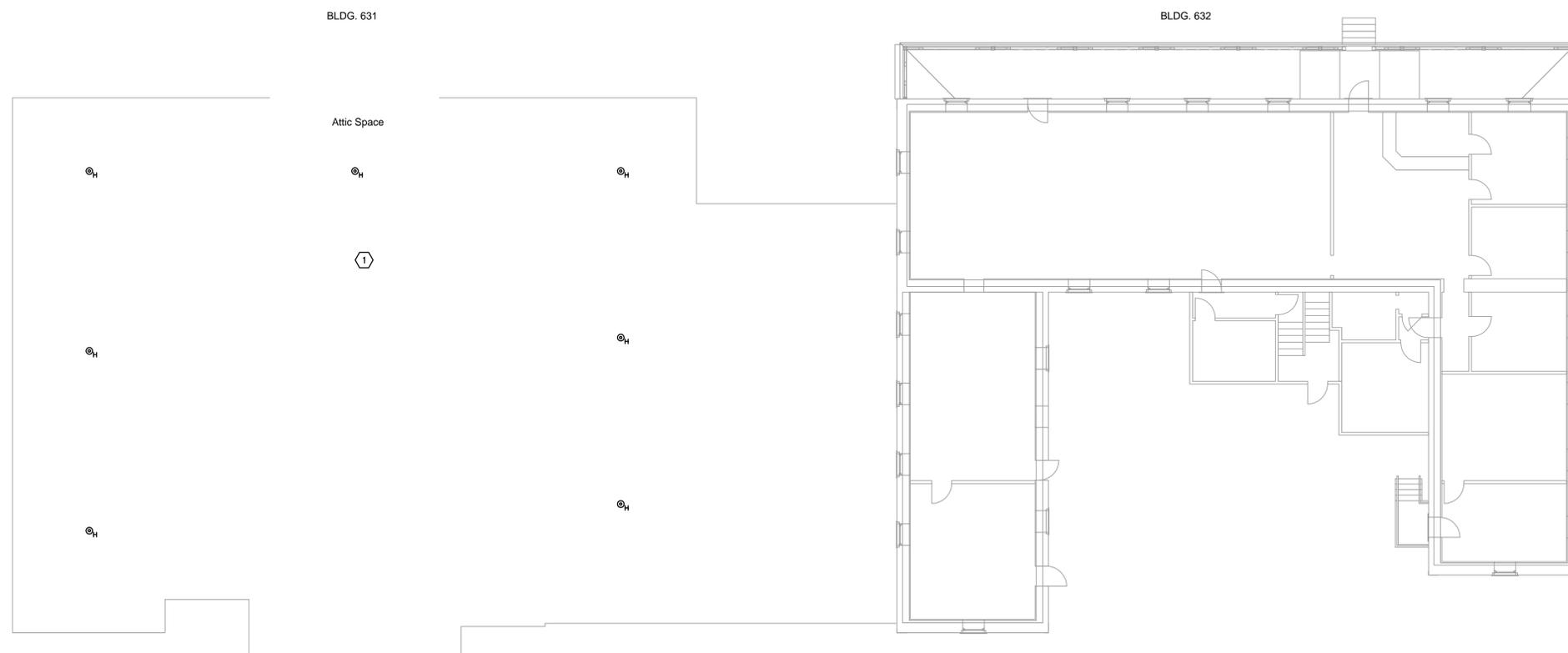
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ROBERT VOYLES
32 POTTER STREET
FORT DOUGLAS, UT 84113



NOTE: ATTIC IN BUILDING 632 CONTAINS EXISTING HEAT DETECTION.

PLAN NORTH
FIRE ALARM AND
SECURITY PLAN UPPER LEVEL
3/32" = 1'-0"

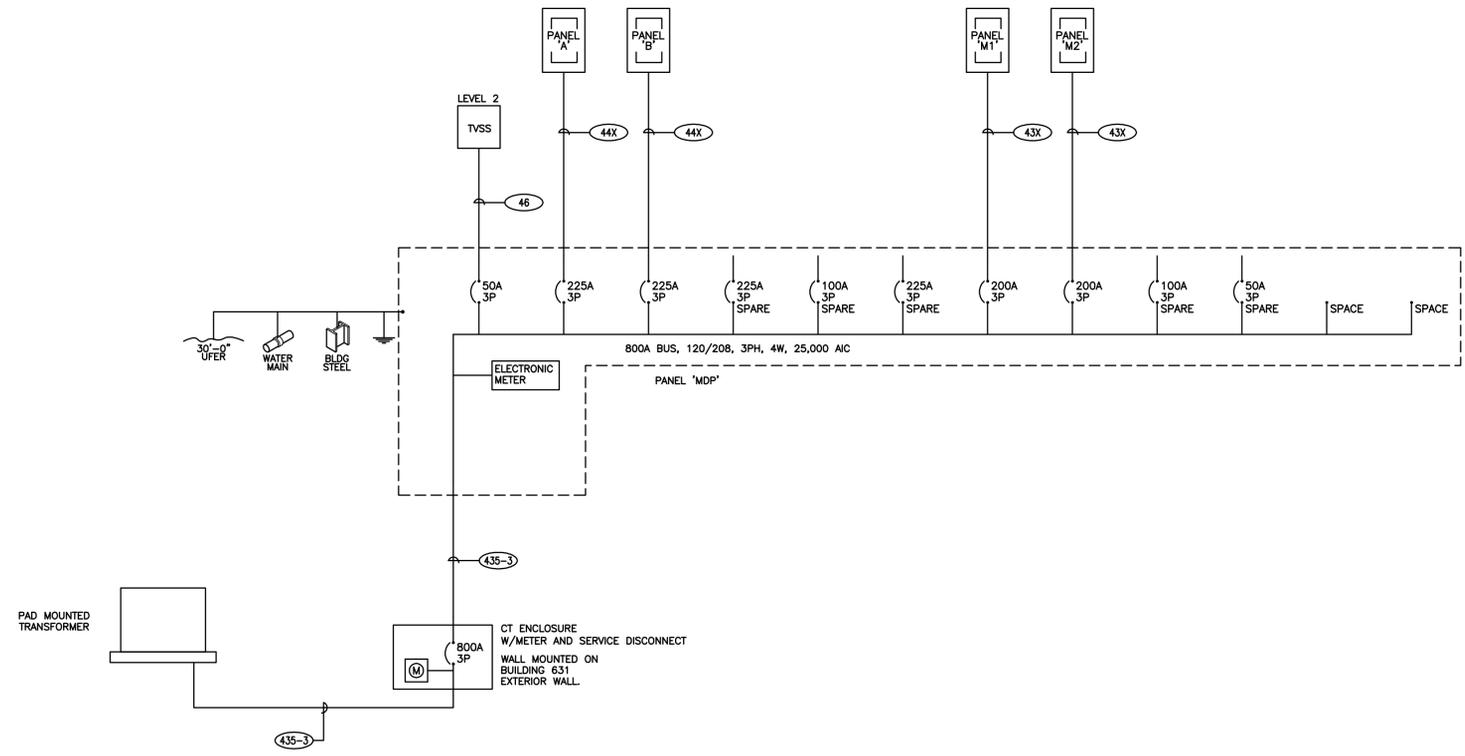
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FIRE ALARM AND
SECURITY PLAN
UPPER LEVEL

EY103

SHEET OF

By: ccd1, Apr 17, 2006 - 5:19pm
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1 ONE-LINE DIAGRAM
 NO SCALE

COPPER CONDUCTOR & CONDUIT SCHEDULE

TYPE	AMP.	COND. SIZE	CONDUCTOR QUAN.	CONDUIT SIZE	INSUL-ATION	EQ. GND. COND.
(20)	30	3/4"	2	10	THHN	10
(30)	30	3/4"	3	10	THHN	10
(40)	30	3/4"	4	10	THHN	10
(28)	40	3/4"	2	8	THHN	10
(38)	40	3/4"	3	8	THHN	10
(48)	40	3/4"	4	8	THHN	10
(26)	55	3/4"	2	6	THHN	8
(36)	55	3/4"	3	6	THHN	8
(46)	55	1"	4	6	THHN	8
(24)	70	3/4"	2	4	THHN	8
(34)	70	1"	3	4	THHN	8
(44)	70	1-1/4"	4	4	THHN	8
(23)	85	1"	2	3	THHN	8
(33)	85	1"	3	3	THHN	8
(43)	85	1-1/4"	4	3	THHN	8
(32)	95	1-1/4"	3	2	THHN	6
(42)	95	1-1/4"	4	2	THHN	6
(31)	110	1-1/4"	3	1	THHN	6
(41)	110	1-1/2"	4	1	THHN	6
(51)	110	2"	5	1	THHN	6
(31X)	150	1-1/2"	3	1/0	THHN	6
(41X)	150	1-1/2"	4	1/0	THHN	6
(51X)	150	2"	5	1/0	THHN	6
(32X)	175	1-1/2"	3	2/0	THHN	6
(42X)	175	2"	4	2/0	THHN	6
(52X)	175	2"	5 *	2/0	THHN	6
(33X)	200	2"	3	3/0	THHN	6
(43X)	200	2"	4	3/0	THHN	6
(53X)	200	2-1/2"	5	3/0	THHN	6
(34X)	230	2"	3	4/0	THHN	4
(44X)	230	2-1/2"	4	4/0	THHN	4
(54X)	230	2-1/2"	5	4/0	THHN	4
(325)	255	2"	3	250	THHN	4
(425)	255	2-1/2"	4	250	THHN	4
(525)	255	2-1/2"	5	250	THHN	4
(335)	310	2-1/2"	3	350	THHN	3
(435)	310	3"	4	350	THHN	3
(535)	310	3"	5	350	THHN	3
(340)	335	3"	3	400	THHN	3
(440)	335	3"	4	400	THHN	3
(540)	335	3"	5	400	THHN	3
(350)	380	3-1/2"	3	500	XHHW	3
(450)	380	3-1/2"	4	500	XHHW	3
(550)	380	3-1/2"	5	500	XHHW	3

COPPER CONDUCTOR & CONDUIT SCHEDULE FOR PARALLEL RUNS

TYPE	MAX. O.C. PROT.	COND. AMPS	SETS	CONDUCTOR QUAN.	CONDUIT SIZE	EQ. GND. COND.
(325-2)	600	510	2	3	250	2-1/2"
(425-2)	600	510	2	4	250	2-1/2"
(525-2)	600	510	2	5	250	2-1/2"
(435-2)	700	620	2	4	350	3"
(440-2)	700	670	2	4	400	3"
(450-2)	800	760	2	3	500	3"
(450-2)	800	760	2	4	500	4"
(450-2)	800	760	2	5	500	4"
(460-2)	800	840	2	4	600	4"
(435-3)	900	930	3	3	350	3"
(435-3)	900	930	3	4	350	3"
(435-3)	900	930	3	5 *	350	3"
(440-3)	1000	1005	3	3	400	3"
(440-3)	1000	1005	3	4	400	3"
(440-3)	1000	1005	3	5	400	3"
(435-4)	1200	1240	4	4	350	3"
(435-4)	1200	1240	4	5	350	3"
(460-3)	1200	1260	3	4	600	4"
(435-5)	1500	1550	5	3	350	3"
(440-5)	1600	1675	5	4	400	3"
(440-5)	1600	1675	5	5	400	3"
(460-4)	1600	1680	4	4	600	4"
(440-6)	2000	2010	6	4	400	3"
(460-6)	2500	2520	6	4	600	4"
(450-8)	3000	3040	8	4	500	4"
(450-11)	4000	4180	11	4	500	4"

NOTES
 IN PARALLEL RUNS SIZE GND. COND. IN ACCORDANCE WITH NEC PARA. 250-122.
 GND. CONDUCTOR MAY BE DELETED ON SERVICE ENTRANCE CONDUCTORS
 * 200% NEUTRAL

NOT FOR CONSTRUCTION

COOPER ROBERTS SIMONSEN ARCHITECTURE

CRSA

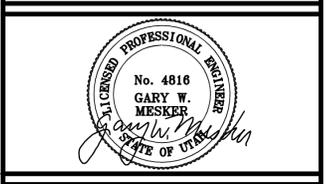
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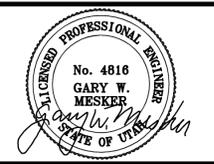
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 SALT LAKE CITY, UT

UTAH NATIONAL GUARD
 DFCM
 ROBERT VOYLES
 32 POTTER STREET
 FORT DOUGLAS, UT 84113

CD	4-18-06	100% CD SUBMITTAL
DD	12-01-05	DD SUBMITTAL
PROJECT NO: B05-027		
BNA PROJ NO: 05308A		
DRAWN BY: BNA		
CHECKED BY: GM		

ONE LINE DIAGRAM

EX101
 SHEET OF



PANELBOARD SCHEDULE

PANEL A TYPE NQ00 120/208 VOLTS 3 PH 4 W

MOUNTING FLUSH SURFACE DIMENSIONS W _____ D (in.) _____ H _____ LOCATION SHIP/RECEIVE 101 MAINS LUGS BREAKER SUBFEED LUGS ISO GROUND 200% NEUTRAL AMP 225

ITEM	AMPS	POLE	WIRE SIZE	CIR. NO.	LEFT PHASE LOAD			RIGHT PHASE LOAD			CIR. NO.	AMPS	POLE	WIRE SIZE	ITEM	
					A	B	C	A	B	C						
LCP 2	20	1	12	1							2	20	1	12	EXHIBIT LIGHTING	
LCP 3	20	1	12	3		50				1200	4	20	1	12	EXHIBIT LIGHTING	
LCP 4	20	1	12	5			50			1200	6	20	1	12	EXHIBIT LIGHTING	
LCP 5	20	1	12	7	50					1600	8	20	1	12	EXHIBIT LIGHTING	
LCP 6	20	1	12	9			50			1600	10	20	1	12	EXHIBIT LIGHTING	
SPARE	20	1	12	11						1600	12	20	1	12	EXHIBIT LIGHTING	
SPARE	20	1	12	13						1600	14	20	1	12	EXHIBIT LIGHTING	
SPARE	20	1	12	15						1600	16	20	1	12	EXHIBIT LIGHTING	
SPARE	20	1	12	17						1600	18	20	1	12	EXHIBIT LIGHTING	
SPARE	20	1	12	19						1600	20	20	1	12	EXHIBIT LIGHTING	
SPARE	20	1	12	21						1600	22	20	1	12	EXHIBIT LIGHTING	
SPARE	20	1	12	23						1600	24	20	1	12	EXHIBIT LIGHTING	
SPARE	20	1	12	25						1600	26	20	1	12	EXHIBIT LIGHTING	
LOBBY PENDENT	20	1	12	27		400				1600	28	20	1	12	EXHIBIT LIGHTING	
LOBBY WALL	20	1	12	29			1178			1600	30	20	1	12	EXHIBIT LIGHTING	
SHOP TRACK	20	1	12	31	800					1600	32	20	1	12	EXHIBIT LIGHTING	
SHOP PENDANT	20	1	12	33		200				1600	34	20	1	12	EXHIBIT LIGHTING	
SHOP TRACK	20	1	12	35			1200			1600	36	20	1	12	EXHIBIT LIGHTING	
SHOP TRACK	20	1	12	37	1200					1200	38	20	1	12	EXHIBIT LIGHTING	
SHOP TRACK	20	1	12	39			1200			1200	40	20	1	12	EXHIBIT LIGHTING	
EXITS, EXTERIOR	20	1	12	41			130				42	20	1		SPARE	
					2100	1900	2558	10400	10400	9200						
					12500	12300	11758	TOTAL								
					104.17	102.50	97.98	AMPS/PHASE								
											CONNECTED LOAD TOTAL					
											36558 VA					
											EQUIP RATING		10000 AMPS RMS SYM.			

PANELBOARD SCHEDULE

PANEL M1 TYPE NQ00 120/208 VOLTS 3 PH 4 W

MOUNTING FLUSH SURFACE DIMENSIONS W _____ D (in.) _____ H _____ LOCATION ELECT. ROOM MAINS LUGS BREAKER SUBFEED LUGS ISO GROUND 200% NEUTRAL AMP 200

ITEM	AMPS	POLE	WIRE SIZE	CIR. NO.	LEFT PHASE LOAD			RIGHT PHASE LOAD			CIR. NO.	AMPS	POLE	WIRE SIZE	ITEM	
					A	B	C	A	B	C						
FURNACE F-1	20	1	12	1	1195			2400			2	40	3	8	CU-1	
FURNACE F-2	20	1	12	3		1195			2400		4					
FURNACE F-3	20	1	12	5			1195		2400		6					
FURNACE F-4	20	1	12	7	525			2400		8	40	3	8	CU-2		
FURNACE F-5	20	1	12	9		1195			2400		10					
S: GRINDER SE-1	20	2	12	11			1200		2400	12						
RECEPT	20	1	12	15		540			2400	14	40	3	8	CU-3		
LIFT	20	1	12	17				1180	2400	16						
RECEPT	20	1	12	19	540				1440	20	20	3	12	CU-4		
SPARE	20	1	12	21					1440	22						
SPARE	20	1	12	23					1440	24						
SPARE	20	1	12	25				1440		26	20	3	12	CU-5		
SPARE	20	1	12	27					1440	28						
SPARE	20	1	12	29					1440	30						
SPARE	20	1	12	31						32	20	3		SPARE		
SPARE	20	1	12	33						34						
SPARE	20	1	12	35						36						
SPARE	20	1	12	37						38	20	3		SPARE		
SPARE	20	1	12	39						40						
SPARE	20	1	12	41						42						
					3460	2830	3575	10080	10080	10080						
					13540	13010	13655	TOTAL								
					112.83	108.42	113.79	AMPS/PHASE								
											CONNECTED LOAD TOTAL					
											40205 VA					
											EQUIP RATING		22000 AMPS RMS SYM.			

PANELBOARD SCHEDULE

PANEL B TYPE NQ00 120/208 VOLTS 3 PH 4 W

MOUNTING FLUSH SURFACE DIMENSIONS W _____ D (in.) _____ H _____ LOCATION ELECT. ROOM MAINS LUGS BREAKER SUBFEED LUGS ISO GROUND 200% NEUTRAL AMP 225

ITEM	AMPS	POLE	WIRE SIZE	CIR. NO.	LEFT PHASE LOAD			RIGHT PHASE LOAD			CIR. NO.	AMPS	POLE	WIRE SIZE	ITEM	
					A	B	C	A	B	C						
RECEPT- EXHIBITS	20	1	12	1				720			2	20	1		SPARE	
RECEPT- EXHIBITS	20	1	12	3					900		4	20	1		SPARE	
RECEPT- EXHIBITS	20	1	12	5					720		6	20	1		SPARE	
RECEPT- EXHIBITS	20	1	12	7	900						8	20	1		SPARE	
RECEPT- EXHIBITS	20	1	12	9					720		10	20	1		SPARE	
RECEPT- VISITOR	20	1	10	11				540		540	12	20	1		SPARE	
RECEPT- VISITOR	20	1	10	13					360		14	20	1		SPARE	
RECEPT- VISITOR	20	1	10	15						360	16	20	1		SPARE	
RECEPT- VISITOR	20	1	10	17							18	20	1		SPARE	
LIGHTING MECH	20	1	12	19	684						20	20	1		SPARE	
LIGHTING STORAGE	20	1	12	21				1254			22	20	1		SPARE	
SPARE	20	1	12	23							24	20	1		SPARE	
SPARE	20	1	12	25							26	20	1		SPARE	
SPARE	20	1	12	27							28	20	1		SPARE	
FIRE ALARM PNL	20	1	12	29					600		30	20	1		SPARE	
SPARE	20	1	12	31							32	20	1		SPARE	
SPARE	20	1	12	33							34	20	1		SPARE	
SPARE	20	1	12	35							36	20	1		SPARE	
SPARE	20	1	12	37							38	20	1		SPARE	
SPARE	20	1	12	39							40	20	1		SPARE	
SPARE	20	1	12	41							42	20	1		SPARE	
					2844	3234	2220	0	0	0						
					2844	3234	2220	TOTAL								
					23.70	28.95	18.50	AMPS/PHASE								
											CONNECTED LOAD TOTAL					
											8298 VA					
											EQUIP RATING		22000 AMPS RMS SYM.			

PANELBOARD SCHEDULE

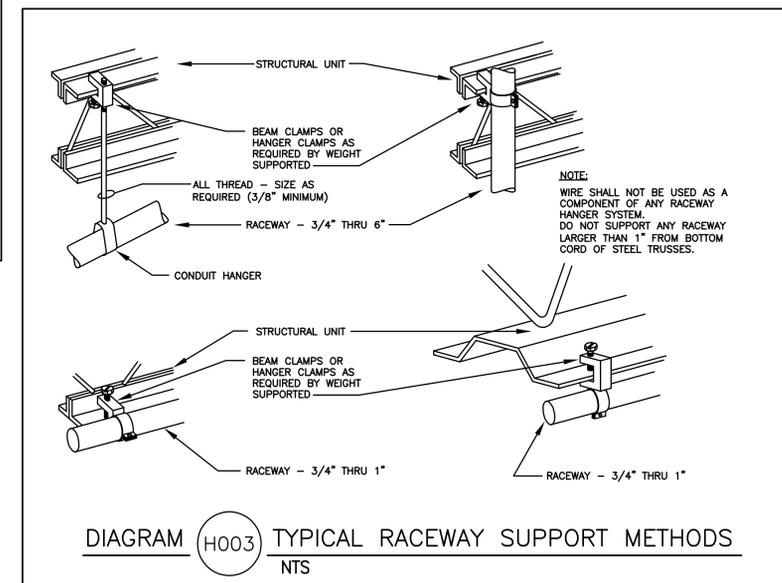
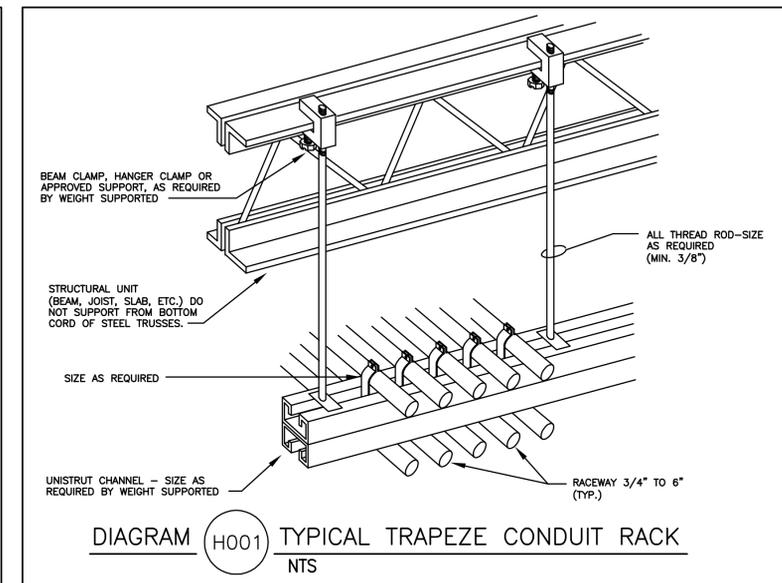
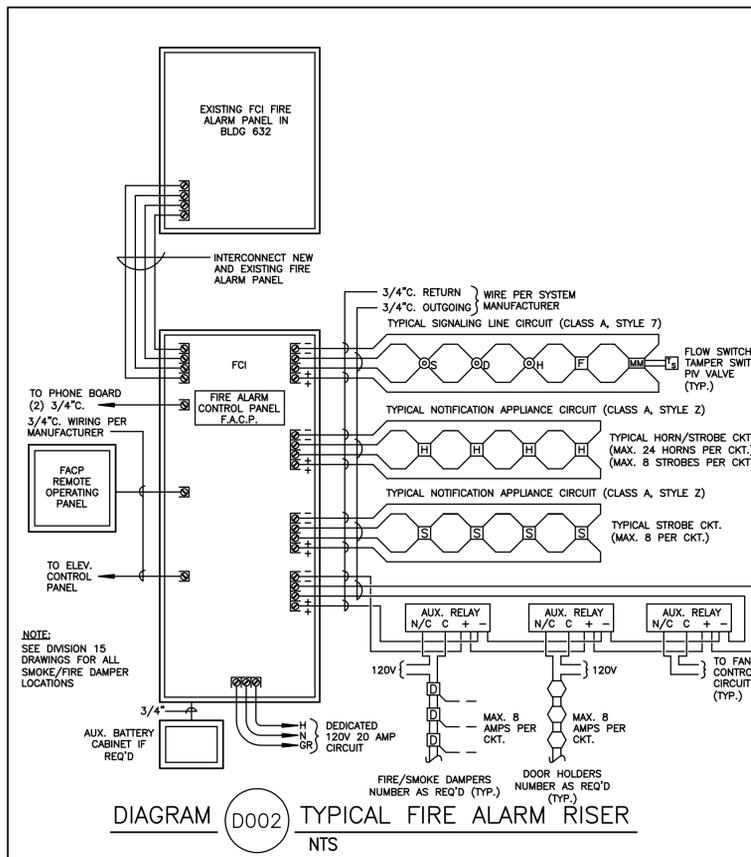
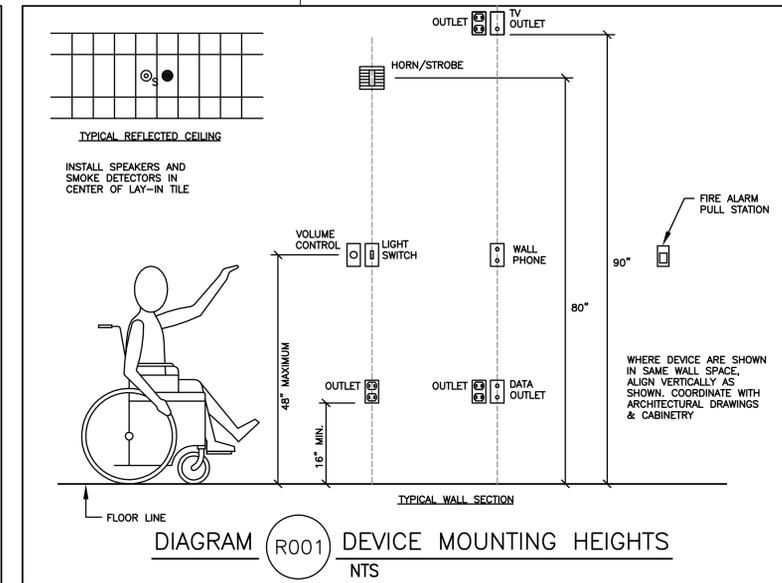
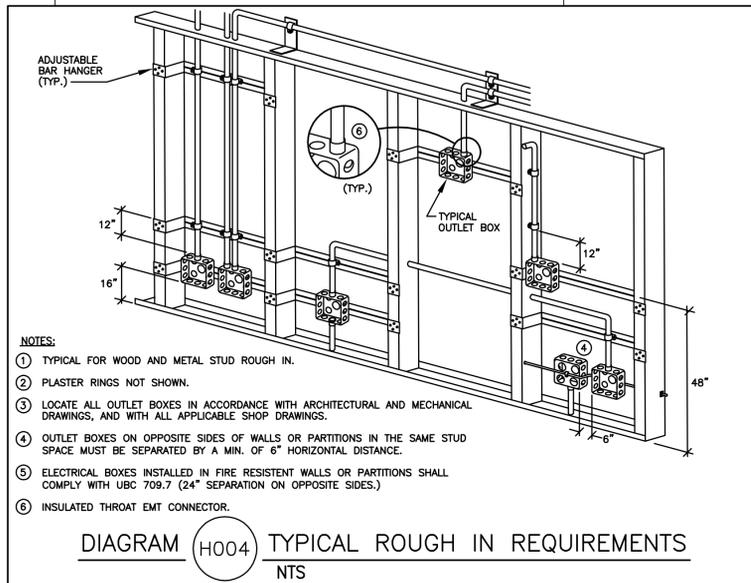
PANEL M2 TYPE NQ00 120/208 VOLTS 3 PH 4 W

MOUNTING FLUSH SURFACE DIMENSIONS W _____ D (in.) _____ H _____ LOCATION BLDG. 632 MAINS LUGS BREAKER SUBFEED LUGS ISO GROUND 200% NEUTRAL AMP 200

ITEM	AMPS	POLE	WIRE SIZE	CIR. NO.	LEFT PHASE LOAD			RIGHT PHASE LOAD			CIR. NO.	AMPS	POLE	WIRE SIZE	ITEM	
					A	B	C	A	B	C						
FURNACE F-6	20	1	12	1	725			2400			2	40	3	8	CU-6	
FURNACE F-7	20	1	12	3		1195			2400		4					
SPARE	20	1	12	5					2400		6					
SPARE	20	1	12	7				2400		8	40	3	8	CU-7		
SPARE	20	1	12	9					2400		10					
SPARE	20	1	12	11						2400	12					
SPARE	20	1	12	13						14	40	3		SPARE		
SPARE	20	1	12	15						16						
SPARE	20	1	12	17						18						
SPARE	20	1	12	19						20	40	3		SPARE		
SPARE	20	1	12	21						22						
SPARE	20	1	12	23						24						
SPARE	20	1	12	25						26	20	3		SPARE		
SPARE	20	1	12	27						28						
SPARE	20	1	12	29						30						
SPACE ONLY	20	1	12	31						32	20	3		SPARE		
SPACE ONLY	20	1	12	33						34						
SPACE ONLY	20	1	12	35						36						
SPACE ONLY	20	1	12	37						38	20	3		SPARE		
SPACE ONLY	20	1	12	39						40						
SPACE ONLY	20	1	12	41						42						
					725	1195	0	4800	4800	4800						
					5525	5995	4800	TOTAL								
					46.04	49.96	40.00	AMPS/PHASE								
											CONNECTED LOAD TOTAL					
											16320 VA					
											EQUIP RATING		10000 AMPS RMS SYM.			

EQUIPMENT SCHEDULE

UNIT #	FUNCTION	LOAD	VOLT	PHASE	FULL LOAD AMPS	CONDUIT SIZE	NO. SETS	WIRES		OCPD	REF.	NOTES	REMARKS
								NO.	SIZE				
F-1	FURNACE	1195W	120	1									
F-2	FURNACE	1195W	120	1									
F-3	FURNACE	1195W	120	1									
F-4	FURNACE	525W	120	1									



COOPER
ROBERTS
SIMONSEN
ARCHITECTURE

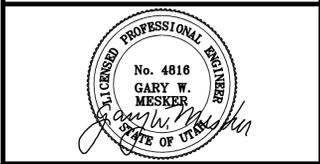
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FORT DOUGLAS, UT 84113

PROJECT NO: B05-027
BNA PROJ NO: 05308A
DRAWN BY: BNA
CHECKED BY: GM

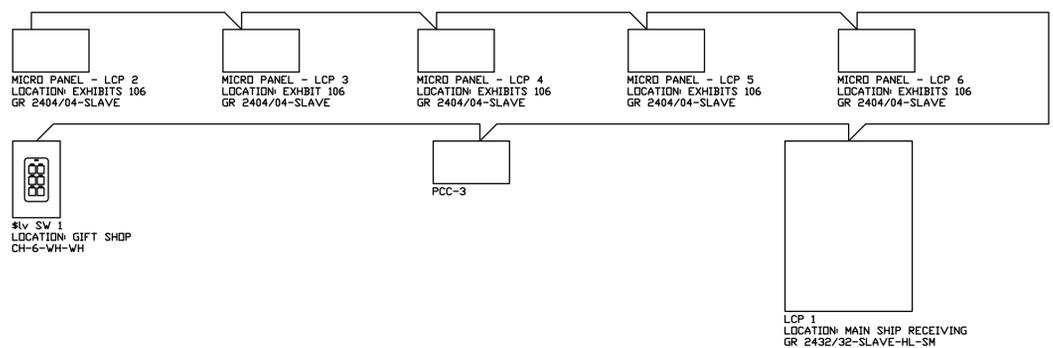
CD	4-18-06	100% CD SUBMITTAL
DD	12-01-05	DD SUBMITTAL

ELECTRICAL
DIAGRAMS

EX201
SHEET OF

NOT FOR CONSTRUCTION

By: ccd1, Apr 17, 2006 - 5:19pm
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LIGHTING CONTROLS - LOW VOLTAGE SINGLE LINE

Comments:

ID: LCP 2
Location: EXHIBITS 106
Supply Circuit: A-1 Voltage: 120V Normal

Relay	Line Feed	Zone	Type	Voltage	Source	Description	Relay	Line Feed	Zone	Type	Voltage	Source	Description
1	A-2	1	NC	120V	Normal	TRACK 2	2	A-6	1	NC	120V	Normal	TRACK 6
3	A-4	2	NC	120V	Normal	TRACK 4	4	A-8	2	NC	120V	Normal	TRACK 8

Part #: GR 2404/04-SLAVE
Enclosure Dimensions: 6"H x 12"W x 4"D
NEMA Rating: 1

PANEL SCHEDULE - LCP 2

Comments:

ID: LCP 3
Location: EXHIBIT 106
Supply Circuit: A-3 Voltage: 120V Normal

Relay	Line Feed	Zone	Type	Voltage	Source	Description	Relay	Line Feed	Zone	Type	Voltage	Source	Description
1	A-10	1	NC	120V	Normal	TRACK 10	2	A-14	1	NC	120V	Normal	TRACK 14
3	A-12	2	NC	120V	Normal	TRACK 12	4	A-16	2	NC	120V	Normal	TRACK 16

Part #: GR 2404/04-SLAVE
Enclosure Dimensions: 6"H x 12"W x 4"D
NEMA Rating: 1

PANEL SCHEDULE - LCP 3

Comments:

ID: LCP 4
Location: EXHIBITS 106
Supply Circuit: A-5 Voltage: 120V Normal

Relay	Line Feed	Zone	Type	Voltage	Source	Description	Relay	Line Feed	Zone	Type	Voltage	Source	Description
1	A-18	1	NC	120V	Normal	TRACK 18	2	A-22	1	NC	120V	Normal	TRACK 22
3	A-20	2	NC	120V	Normal	TRACK 20	4	A-24	2	NC	120V	Normal	TRACK 24

Part #: GR 2404/04-SLAVE
Enclosure Dimensions: 6"H x 12"W x 4"D
NEMA Rating: 1

PANEL SCHEDULE - LCP 4

Comments:

ID: LCP 5
Location: EXHIBITS 106
Supply Circuit: A-7 Voltage: 120V Normal

Relay	Line Feed	Zone	Type	Voltage	Source	Description	Relay	Line Feed	Zone	Type	Voltage	Source	Description
1	A-26	1	NC	120V	Normal	TRACK 26	2	A-30	1	NC	120V	Normal	TRACK 30
3	A-28	2	NC	120V	Normal	TRACK 28	4	A-32	2	NC	120V	Normal	TRACK 32

Part #: GR 2404/04-SLAVE
Enclosure Dimensions: 6"H x 12"W x 4"D
NEMA Rating: 1

PANEL SCHEDULE - LCP 5

Comments:

ID: LCP 6
Location: EXHIBITS 106
Supply Circuit: A-9 Voltage: 120V Normal

Relay	Line Feed	Zone	Type	Voltage	Source	Description	Relay	Line Feed	Zone	Type	Voltage	Source	Description
1	A-30	1	NC	120V	Normal	TRACK 30	2	A-34	1	NC	120V	Normal	TRACK 34
3	A-32	2	NC	120V	Normal	TRACK 32	4	A-36	2	NC	120V	Normal	TRACK 36

Part #: GR 2404/04-SLAVE
Enclosure Dimensions: 6"H x 12"W x 4"D
NEMA Rating: 1

PANEL SCHEDULE - LCP 6

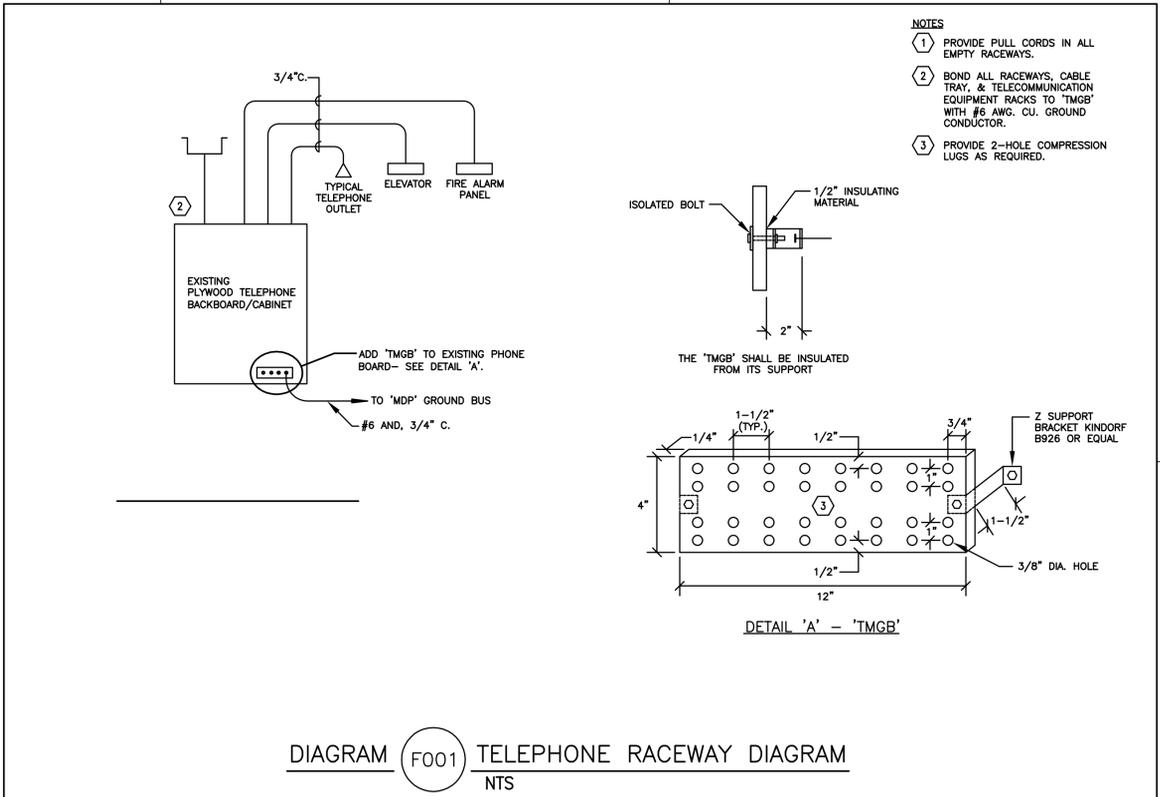


DIAGRAM F001 TELEPHONE RACEWAY DIAGRAM NTS

ID: LCP 1
Location: MAIN SHIP RECEIVING
Supply Circuit: Voltage: 120V Normal

Relay	Line Feed	Zone	Type	Voltage	Source	Description	Relay	Line Feed	Zone	Type	Voltage	Source	Description
1	A-41	3	NC	120V	Normal	EXTERIOR	2	-	-	NC	120V	Normal	
3	A-29	4	NC	120V	Normal	LOBBY WALLS	4	-	-	NC	120V	Normal	
5	A-27	5	NC	120V	Normal	LOBBY PENDANT	6	-	-	NC	120V	Normal	
7	A-33	6	NC	120V	Normal	SHOP PENDANTS	8	-	-	NC	120V	Normal	
9	A-35	7	NC	120V	Normal	SHOP TRACK	10	-	-	NC	120V	Normal	
11	A-37	7	NC	120V	Normal	SHOP TRACK	12	-	-	NC	120V	Normal	
13	A-39	7	NC	120V	Normal	SHOP TRACK	14	-	-	NC	120V	Normal	
15	A-31	7	NC	120V	Normal	SHOP TRACK	16	-	-	NC	120V	Normal	
17	-	-	NC	120V	Normal		18	-	-	NC	120V	Normal	
19	-	-	NC	120V	Normal		20	-	-	NC	120V	Normal	
21	-	-	NC	120V	Normal		22	-	-	NC	120V	Normal	
23	-	-	NC	120V	Normal		24	-	-	NC	120V	Normal	
25	-	-	NC	120V	Normal		26	-	-	NC	120V	Normal	
27	-	-	NC	120V	Normal		28	-	-	NC	120V	Normal	
29	-	-	NC	120V	Normal		30	-	-	NC	120V	Normal	
31	-	-	NC	120V	Normal		32	-	-	NC	120V	Normal	

Part #: GR 2432/32-SLAVE-HL-SM
Enclosure Dimensions: 25.5"H x 20"W x 6"D
NEMA Rating: 1

PANEL SCHEDULE - LCP 1

ID: SW 1
Location: GIFT SHOP
Part #: CH-6-VH-VH

Button Name	Function	Zones Controlled	Color	Line 1	Line 2
1 BUTTON 1	Toggle	LCP 21-2/LCP 31-2/LCP 41-2/LCP 51-2/LCP 61-2	White	1	EXHIBITS
2 BUTTON 2	Toggle	LCP 23-4/LCP 33-4/LCP 43-4/LCP 53-4/LCP 63-4	White	2	EXHIBITS
3 BUTTON 3	Toggle	LCP 13	White	3	WALLS
4 BUTTON 4	Toggle	LCP 15	White	4	LOBBY
5 BUTTON 5	Toggle	LCP 17	White	5	SHOP
6 BUTTON 6	Toggle	LCP 19,11,13,15	White	6	TRACK

SWITCH SCHEDULE - SW 1

ID: FRONT ENTRY
Part #: CH-1-VH-VH
Location: FRONT ENTRY

Button Name	Function	Zones Controlled	Color	Line 1	Line 2
1 BUTTON 1	Toggle	LCP 13,5,17	White		

SWITCH SCHEDULE - FRONT ENTRY

ID: BACK ENTRY
Part #: CH-1-VH-VH
Location: BACK ENTRY

Button Name	Function	Zones Controlled	Color	Line 1	Line 2
1 BUTTON 1	On Mode	LCP 15,7,17	White		

SWITCH SCHEDULE - BACK ENTRY

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DD 12-01-05 DD SUBMITTAL

PROJECT NO: B05-027
BNA PROJ NO: 05308A
DRAWN BY: BNA
CHECKED BY: GM

ELECTRICAL DIAGRAMS

EX202

SHEET OF

NOT FOR CONSTRUCTION

By: ccd1, Apr 17, 2006 - 5:20pm
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