



ARCHITECTURE • ENGINEERING • INTERIOR DESIGN

ADDENDUM

PROJECT: Bryan Health
Bryan Medical Center, West
Independence Center, New Facility
Lincoln, Nebraska

ADDENDUM NUMBER

AD-2

ISSUED BY:

Wade Stange, Architect
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Bryce Johnson, Mechanical Engineer
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PROJECT #: 11-0101

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This addendum is issued by the Architect to all known bidders before receipt of proposals, for the purpose of explaining, interpreting, or modifying the original plans and specifications. When enumerated by the bidder upon the proposal sheet, the information or instructions given hereon will be equally binding upon all parties as if included in the original plans and specifications.
BIDDER MUST ENTER THE NUMBER OF THIS ADDENDUM ON HIS PROPOSAL SHEET

THE FOLLOWING ITEMS ARE APPLICABLE TO THE SPECIFICATIONS:

AD-2, ITEM 1:

In reference to Section 011000 – Steam Summary of Work, Article 1.4.A, Paragraph 1, revise to read as follows:

1. Owner Furnished/Owner Installed (OF/OI), Owner Furnished/Contractor Installed (OF/CI) and Contractor Furnished/Contractor Installed (CF/CI) items are as listed below.
 - a. For Toilet Accessories See Toilet Accessories Schedule in Section 102800.
 - b. Blanket Warmers OF/OI
 - c. Computer Keyboard Trays OF/OI
 - d. Cubicle Curtain Tracks CF/CI
 - e. Furnishings OF/OI
 - f. Ice Machines OF/OI
 - g. Lockers CF/CI
 - h. Lounge Equipment – Refrigerator, Microwaves, Coffee Maker OF/OI
 - i. Med/Nourishment Refrigerators OF/OI
 - j. Outdoor Basketball Hoop OF/CI
 - k. Pamphlet Display Boards OF/OI
 - l. Shower Curtains OF/OI
 - m. Shower Rods/Rings CF/CI
 - n. Shower Track (safety) CF/CI
 - o. Signage – Room, Directional and Information OF/OI
 - p. Tackboards CF/CI
 - q. TV Brackets OF/CI

AD-2, ITEM 2:

In reference to Section 033000 – Cast in Place Concrete, paragraph 2.6.B, subject to compliance with all specifications, include Barrier-Bac VB-250 to the list of potential manufacturers.

AD-2, ITEM 3:

In reference to Section 042113 – Brick Masonry, paragraph 2.7.D, subject to compliance with all specifications, include Hohmann & Barnard, Inc. Mortar Trap to the list of potential manufacturers.

AD-2, ITEM 4:

In reference to Section 042113 – Brick Masonry and 042200 – Concrete Unit Masonry, to clarify the mortar color will be natural to match the existing.

AD-2, ITEM 5:

In reference to Section 042200 – Concrete Unit Masonry, paragraph 2.2.D.1, add paragraph b. as follows:

- b. Burnished masonry units as manufactured by:
 - 1) Gage Brothers Concrete Products Incorporated
101 Industrial Dr.
Harrisburg, SD 57032

In paragraph 2.2.D.4, revise paragraph a. as follows:

- a. Split-face masonry units: standard pattern, split-face finish

In paragraph 2.2.D.4, add paragraph b. as follows:

- b. Burnished masonry units: scored face with one vertical reveal
 - 1) Color: Natural

AD-2, ITEM 6:

In reference to Section 051200 - Structural Steel Framing, paragraph 1.6.B, add the following to the end of the paragraph: Alternately, a qualified installer shall have demonstrated experience erecting similar size structures with similar connections within the last three years. In addition, a qualified installer who does not participate in AISC's Quality Certification Program shall have a quality assurance / quality control program in place.

AD-2, ITEM 7:

In reference to Section 074213 – Metal Wall Panels, subject to compliance with all specifications, include Firestone Metal Products – Series 4500 to the list of potential manufacturers.

AD-2, ITEM 8:

In reference to Section 076200 – Sheet Metal Flashing and Trim, paragraph 2.5.A.1.b, revise thickness of Pre-painted, Metallic Coated Steel to be 0.028 inch thick.

AD-2, ITEM 9:

In reference to **Section 076200 – Sheet Metal Flashing and Trim**, delete all references to aluminum flashing and copings. All flashing and coping will be Pre-painted, Metallic Coated Steel.

AD-2, ITEM 10:

In reference to **Section 077200 – Roof Accessories**, subject to compliance with all specifications, include Lane-Aire Manufacturing Corp Model RHG to the list of potential manufacturers.

AD-2, ITEM 11:

In reference to **Section 087100 – Door Hardware**, add the attached Specification Section in its entirety.

AD-2, ITEM 12:

In reference to **Section 088000 – Glazing**, subject to compliance with all specifications, include SAFTI FIRST to the list of potential manufacturers.

AD-2, ITEM 13:

In reference to **Section 089119 – Fixed Louvers**, entire section is attached.

AD-2, ITEM 14:

In reference to **Section 098319 - Acoustical Wall Panels**, Page 098319-2, under Article 1.5, Paragraph B, delete Sub-paragraph 2.

AD-2, ITEM 15:

In reference to **Section 098319 - Acoustical Wall Panels**, Page 098319-3, under Article 2.2, Paragraph A, delete Sub-paragraph 10.

AD-2, ITEM 16:

In reference to **Section 098319 – Acoustical Wall Panels**, subject to compliance with all specifications, include Signature Craft to the list of potential manufacturers.

AD-2, ITEM 17:

In reference to **Section 098319 – Acoustical Wall Panels**, disregard all references to NFPA 265; this test is not a performance requirement for this project.

AD-2, ITEM 18:

In reference to Section 102113 – Toilet Compartments, paragraph 2.2.B, to clarify the Toilet-Enclosure Style to be Floor and Ceiling Supported Pilaster System.

Subject to compliance with all specifications, include Hadrian to the list of potential manufacturers.

Remove Sanymetal from the list of potential manufacturers.

AD-2, ITEM 19:

In reference to Section 102600 – Wall and Door Protection, paragraph 2.3.A, add paragraph 5 as follows:

5. Locations: Provide the number of corner guards as indicated below. Assume corner guard will begin at a height of 4” above finished floor and terminate at 9’-0” above the finished floor. Drywall corners will be finished above and below the corner as required by the partition schedule and specifications.
 - a. Provide 75 (seventy five) non-fire-rated corner guards at 90 degree corners.
 - b. Provide 16 (sixteen) one hour fire-rated corner guards at 90 degree corners.

AD-2, ITEM 20:

Under specification Divisions 21, 22, and 23 add the following:

IN REFERENCE TO ALL SPECIFICATION SECTIONS – The following manufacturers are approved to bid on the listed item(s) as specified under the listed specification section. The following manufacturers are approved for bidding purposes only and all equipment proposed must be in full compliance with the intent and the requirements of all drawings and of these specifications and are subject to review/rejection by the Architect/Engineer and by the Owner/Owner’s representative.

Exhaust/Return Fans	Twin City
Louvers	Pottorff, United Enertech, Air Balance, Ruskin
Sound Attenuators	Dynasonics, Kinetics, Aerosonics
Pumps	Armstrong, Patterson
Air Control	Armstrong, Patterson
Dampers	NCA, United Enertech
Water Heaters	RECO, PVI
Condensate Pumps	Shipco
Flash Tanks	Penn Separator
Cabinet/Unit-Heaters	Modine, Zehnder-Rittling, Vulcan
Split Systems	Carrier
Spiral Duct	Lewis & Lambert
Expansion Tanks	Patterson
Expansion Joints/Guides	Twin City Hose

AD-2, ITEM 21:

In reference to Section 223500 – Domestic Water Heat Exchangers, entire section is attached.

AD-2, ITEM 22:

In reference to **Section 232113 – Hydronic Piping**, Article 2.2, Paragraph H, revise to read as follows:

H. Steel Pipe Nipples: ASTM A 733, Schedule 80 black steel.

AD-2, ITEM 23:

In reference to **Section 232113.13 – Underground Hydronic Piping**, Article 2.1, Paragraph E, revise to read as follows:

E. Nipples: ASTM A 733, Schedule 80 black steel.

AD-2, ITEM 24:

In reference to **Section 232213 – Steam and Condensate Heating Piping**, Article 2.2, Paragraph H, revise to read as follows:

H. Steel Pipe Nipples: ASTM A 733, made of ASTM A 53/A 53M, Schedule 80 black steel.

AD-2, ITEM 25:

In reference to **Section 283111 – Digital, Addressable Fire-Alarm System**, Article 1.3, Paragraph C, revise to read as follows:

C. This contract shall include one full system that will control both buildings, and also each building (Independence Center, & Counseling Center) Independently from each other. System shall be connected to the Hospital System through network connection.

THE FOLLOWING ITEMS ARE APPLICABLE TO THE DRAWINGS:

AD-2, ITEM 26:

In reference to drawing **Sheet C1-1**, revise Site Construction Plan as indicated in the attached Supplemental Drawings C1-1.1.

AD-2, ITEM 27:

In reference to drawing **Sheet C1-1**, to clarify, the privacy fence is to be 7'-0" tall above grade.

AD-2, ITEM 28:

In reference to drawing **Sheet C1-1**, revise note "C.I.P. CONC. ADA WARNING STRIPE" to read "6" C.I.P. CONC. ADA WARNING STRIPE TO MATCH EXISTING WARNING STRIP IN CONSTRUCTION AND COLOR AT LOCATION TO THE WEST OF AREA OF WORK".

AD-2, ITEM 29:

In reference to drawing **Sheet C4-1**, remove sheet from set and replace with revised sheet C4-1 attached.

AD-2, ITEM 30:

In reference to drawing Sheet S1-1, Foundation Plan, see attached Foundation Plan S1-1.2 for revisions to the Foundation Plan. Note that this is a full size sheet.

AD-2, ITEM 31:

In reference to drawing Sheet S5-1, Details, see attached sketches 2.1-S5-1, 2.2-S5-1, and 2.3-S5-1 for additions to detail 2 and sheet S5-1.

AD-2, ITEM 32:

In reference to drawing Sheet S5-1, Details, see attached sketch 3-S5-1 for new detail to be added to sheet S5-1.

AD-2, ITEM 33:

In reference to drawing Sheet S5-1, Details, see attached sketch FRS.1 for revised Foundation Reinforcing Schedule from sheet S5-1.

AD-2, ITEM 34:

In reference to drawing Sheet S5-2, Details, see attached sketch 2.1-S5-2 for revised Grade Beam Detail from sheet S5-2.

AD-2, ITEM 35:

In reference to drawing Sheet S5-3, Details, see attached sketch 19-S5-3 for new Pad & Pier Detail from sheet S5-3.

AD-2, ITEM 36:

In reference to drawing Sheet S6-1, Graphical Column Schedule, see attached sketch CS.1 for Partial Column Schedule noting revisions to the column schedule.

AD-2, ITEM 37:

In reference to all Architectural Drawings, remove all references to XPS or Extruded-Polystyrene Board Insulation for only tapered roof insulation. See specification Section 075323 for the type of insulation to be used.

AD-2, ITEM 38:

In reference to drawing Sheet AD1-1F, add the following General Demolition Notes:

22. ALL EXISTING SUSPENDED ACOUSTICAL TILE AND GYSPUM DRYWALL CEILING SYSTEMS TO BE REMOVED THROUGH OUT THE ENTIRE BUILDING. COORDINATE REMOVAL OF EXISTING SOFFITS AND BULKHEADS WITH CEILING PLAN ON SHEET A7-1F AND WALL LOCATIONS INDICATED ON SHEET A1-1F. EXISTING GYSPUM DRYWALL MOUNTED TO THE UNDERSIDE OF THE EXISTING WOOD TRUSSES SHALL NOT BE REMOVED UNLESS SMALL AREAS, LESS THAN 2 SQUARE FEET, REQUIRE REMOVAL TO PERFORM WORK. THIS LAYER OF GYSPUM DRYWALL IS INSTALLED ABOVE THE EXISTING SUSPENDED CEILING SYSTEMS. EXISTING ACCESS PANELS ARE AVAILABLE TO ACCESS THE WOOD TRUSSES. ANY OPENINGS CREATED TO PERFORM WORK OR REVEALED IN THE DEMOLITION OF EXISTING MATERIALS SHALL BE PATCHED, TAPED AND MUDDED TO SEAL OPENING. MATCH THE LEVEL OF FINISH OF SURROUNDING AREAS. INSULATION

ABOVE THE GYPSUM DRYWALL SHALL BE REMOVED AND REINSTALLED OR REPLACED IF REQUIRED TO PERFORM THE WORK.

23. REMOVE ALL EXISTING FLOOR FINISHES THROUGHOUT THE ENTIRE BUILDING. SURFACE SEALANT ON EXISTING CONCRETE FLOOR FINISH SHALL REMAIN UNLESS REMOVAL IS REQUIRED TO PERFORM WORK INDICATED ON THE CONTRACT DOCUMENTS. COORDINATE DEMOLITION WORK WITH ROOM FINISH SCHEDULE.

AD-2, ITEM 39:

In reference to drawing Sheet AD1-1F, in reference to the Keyed Demo Notes Legend / Schedule, make the following revisions:

Delete Keyed Demo Notes 2,4 and 5.

Revise Keyed Demo Note 3 to read, " REMOVE EXISTING DOOR, FRAME AND HARDWARE."

Revise Keyed Demo Note 12 to read, "REMOVE EXISTING TILE FINISH AND BACKING BOARD FROM EXISTING WALL TO REMAIN. WHERE FRAMING OR FURRING IS INDICATED ON SHEET A1-1F, REMOVE FRAMING OR FURRING AS REQ'D. WHERE FRAMING IS TO REMAIN, INSTALL 5/8" TYPE 'X' GWB ON FRAMING AND PREPARE SURFACES TO RECEIVE FINISHES AS INDICATED IN ROOM FINISH SCHEDULE AND ELSEWHERE."

Add Keyed Demo Note 13 to read, "REMOVE EXISTING TOILET PARTITIONS, PARTITION DOORS AND ALL ASSOCIATED HARDWARE INCLUDING, BUT NOT LIMITED TO, ANCHORS, BOLTS AND STRUCTURE ABOVE THE CEILING."

AD-2, ITEM 40:

In reference to drawing Sheet AD1-1F, add Keyed Demo Note 6 to First Level Demolition Plan – Area F in each of the existing paired restrooms. (To clarify, the restroom shown near Grid Line F does not need this Keyed Demo Note.)

Add Keyed Demo Note 12 to the north face of the existing CMU wall on Grid Line J.9 for the portion of the wall found in the restroom.

Add Keyed Demo Note 12 to all of the walls in both restrooms on either side of Grid Line D.8.

Add Keyed Demo Note 13 to both restrooms between Grid Line J.1 and J.9.

AD-2, ITEM 41:

In reference to sheet AD1-1F – Demolition Plan – Area F, see attached Supplemental Drawing AD1-1F.1 for note added note regarding floor patching at masonry wall opening.

AD-2, ITEM 42:

In reference to drawing sheet A1-2G – Roof Plan, see attached supplemental drawing A1-2G.1 Roof Hatch for plan revisions.

AD-2, ITEM 43:

In reference to drawing sheet A2-1 – Exterior Elevations, revise exterior elevation 4 East Elevations as indicated in Supplemental Drawing A2-1.1 attached.

AD-2, ITEM 44:

In reference to drawing sheet **A2-1 – Exterior Elevations**, revise exterior elevation 2 South Elevations as indicated in Supplemental Drawings A2-1.2 & A2-1.3 attached.

AD-2, ITEM 45:

In reference to drawing sheet **A2-4 – Door & Window Frame Elevations**, revise frame elevation ALF-7.1 such that both columns of glazing on either side of the door are 2'-6 ½" wide and the frame thickness on the right side is 4 ½" wide.

Revise frame elevation ALF-7.2 such that the left side frame thickness is 4 ½" and all three (3) columns of glazing are dimensioned EQUAL.

AD-2, ITEM 46:

In reference to sheet **A3-1 – Building Cross Section**, revise Building Cross Section Looking North 1 as indicated in Supplemental Drawings A3-1.1 attached.

AD-2, ITEM 47:

In reference to drawing sheet **A4-1 – Wall Section**, revise Wall Section 1 as indicated in Supplemental Drawing A4-1.1 attached.

AD-2, ITEM 48:

In reference to drawing sheet **A4-1 – Detail**, revise Brick Veneer on Steel Back up Detail 7 as indicated in Supplemental Drawing A4-1.2 attached.

AD-2, ITEM 49:

In reference to drawing sheet **A4-1 – Wall Section**, revise Wall Section 3 as indicated in Supplemental Drawing A4-1.3 attached.

AD-2, ITEM 50:

In reference to drawing sheet **A4-3 – Wall Section**, add Wall Section 9, 10 as indicated in Supplemental Drawings A4-3.1 & A4-3.2.

AD-2, ITEM 51:

In reference to sheet **A4-6 – Section Details**, add Section Detail 11 as indicated in Supplemental Drawings A4-6.1 attached.

AD-2, ITEM 52:

In reference to drawing sheet **A5-2 – IC Stair AA 01**, revise Section 2 as indicated in Supplemental Drawing A5-2.1 attached.

AD-2, ITEM 53:

In reference to sheet **A5-3 – IC Stair CC**, revise Section 2 as indicated in Supplemental Drawing A5-3.1 attached.

AD-2, ITEM 54:

In reference to drawing sheet **A6-1 – Interior Elevations**, revise Elevation 32 and add Section Detail 40 and Elevations 41 & 42 as indicated in attached Supplemental Drawing A6-1.1 and A6-1.2.

AD-2, ITEM 55:

In reference to drawing sheet **A6-2 – Interior Elevations**, revise Elevations 27, 29 and 30 as indicated in attached Supplemental Drawing A6-2.1.

AD-2, ITEM 56:

In reference to drawing sheet **A6-3 – Interior Elevations**, add Details 33 and 34 as indicated in attached Supplemental Drawing A6-3.1 and A6-3.2.

AD-2, ITEM 57:

In reference to drawing sheet **A7-1G – Ceiling Plan**, add Bathroom Ceiling Plan as indicated on drawings A7-1G.1 Roof Hatch for plan revisions.

AD-2, ITEM 58:

In reference to drawing Sheet **A7-1G**, delete the ACP ceiling in Environmental Services Room 1G153. This room will be open to the structure above.

AD-2, ITEM 59:

In reference to drawing Sheet **A7-1G**, to clarify, cubicle curtain tracks shall be installed in all sixteen (16) Patient Bathrooms. See Supplemental Drawing 7-1G.1 for configuration and dimension of curtain track to occur in each room.

AD-2, ITEM 60:

In reference to drawing Sheet **M5-3 – Mechanical schedules**, Louver Schedule, add the following general note:

Louvers shall be factory painted, color to be selected by Architect.

AD-2, ITEM 61:

In reference to drawing Sheet **M5-3 – Mechanical schedules**, Plumbing Fixture Schedule, replace P-98 with the following:

P-98 Emergency Eye Wash – Counter Mount:

Fixture: Guardian Equipment G5022-HG-BP-FSH-DC deck mounted eye wash/drench hose with Powers e480 undersink thermostatic mixing valve with checkstops.

AD-2, ITEM 62:

In reference to drawing Sheet E2-0G, Basement Level Power and Systems Plan – Area G, see attached plan E2-0G for revisions to add fire alarm devices. Note that this is a revised full size sheet.

AD-2, ITEM 63:

In reference to drawing Sheet E2-1F, First Level Power and Systems Plan – Area F, see attached plan E2-1F for revisions to add fire alarm devices. Note that this is a revised full size sheet.

AD-2, ITEM 64:

In reference to drawing Sheet E2-1G, First Level Power and Systems Plan – Area G, see attached plan E2-1G for revisions to add fire alarm devices. Note that this is a revised full size sheet.

END AD-2

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SECTION 087100 - DOOR HARDWARE

PART 1 - GENERAL

1.1 SUMMARY

- A. Section includes:
1. Mechanical door hardware for the following:
 - a. Commercial door hardware.
 2. Cylinders for doors specified in other Sections.
 3. Electrified door hardware.

1.2 ACTION SUBMITTALS

- A. Product Data: For each type of product indicated.
- B. Shop Drawings: Details of electrified door hardware, including wiring diagrams.
- C. Samples: For each exposed product and for each color and texture specified.
- D. Other Action Submittals:
1. Door Hardware Schedule: Prepared by or under the supervision of Architectural Hardware Consultant, detailing fabrication and assembly of door hardware, as well as installation procedures and diagrams. Coordinate final door hardware schedule with doors, frames, and related work to ensure proper size, thickness, hand, function, and finish of door hardware.
 - a. Format: Use same scheduling sequence and format and use same door numbers as in the Contract Documents.
 - b. Content: Include the following information:
 - 1) Identification number, location, hand, fire rating, size, and material of each door and frame.
 - 2) Locations of each door hardware set, cross-referenced to Drawings on floor plans and to door and frame schedule.
 - 3) Complete designations, including name and manufacturer, type, style, function, size, quantity, function, and finish of each door hardware product.
 - 4) Description of each electrified door hardware sequences of operation and interfaces with other building control systems.
 2. Keying Schedule: Prepared by or under the supervision of Architectural Hardware Consultant, detailing Owner's final keying instructions for locks.

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1.3 QUALITY ASSURANCE

- A. Architectural Hardware Consultant Qualifications: A person who is experienced in providing consulting services for door hardware installations that are comparable in material, design, and extent to that indicated for this Project and who is currently certified by DHI as follows:
 - 1. For door hardware, an Architectural Hardware Consultant (AHC)
- B. Source Limitations: Provide electrified door hardware from same manufacturer as mechanical door hardware, unless otherwise indicated. Manufacturers that perform electrical modifications and that are listed by a testing and inspecting agency acceptable to authorities having jurisdiction are acceptable.
- C. Fire-Rated Door Assemblies: Where fire-rated door assemblies are indicated, provide door hardware rated for use in assemblies complying with NFPA 80 that are listed and labeled by a qualified testing agency acceptable to authorities having jurisdiction, for fire-protection ratings indicated, based on testing at positive pressure according to NFPA 252 or UL 10C, unless otherwise indicated.
- D. Smoke- and Draft-Control Door Assemblies: Where smoke- and draft-control door assemblies are required, provide door hardware that meet requirements of assemblies tested according to UL 1784 and installed in compliance with NFPA 105.
 - 1. Air Leakage Rate: Maximum air leakage of **0.3 cfm/sq. ft.** at the tested pressure differential of **0.3-inch wg** of water.
- E. Electrified Door Hardware: Listed and labeled as defined in NFPA 70, Article 100, by a testing agency acceptable to authorities having jurisdiction.
- F. Means of Egress Doors: Latches do not require more than **15 lbf** to release the latch. Locks do not require use of a key, tool, or special knowledge for operation.
- G. Accessibility Requirements: For door hardware on doors in an accessible route, comply with the U.S. Architectural & Transportation Barriers Compliance Board's ADA-ABA Accessibility Guidelines ICC/ANSI A117.1
 - 1. Provide operating devices that do not require tight grasping, pinching, or twisting of the wrist and that operate with a force of not more than **5 lbf**.
 - 2. Comply with the following maximum opening-force requirements:
 - a. Interior, Non-Fire-Rated Hinged Doors: **5 lbf** applied perpendicular to door.
 - b. Sliding or Folding Doors: **5 lbf** applied parallel to door at latch.
 - c. Fire Doors: Minimum opening force allowable by authorities having jurisdiction.
 - 3. Bevel raised thresholds with a slope of not more than 1:2. Provide thresholds not more than **1/2 inch** high.

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- H. Adjust door closer sweep periods so that, from an open position of 70 degrees, the door will take at least 3 seconds to move to a point **3 inches** from the latch, measured to the leading edge of the door.
- I. Keying Conference: Conduct conference at Project site to comply with requirements in Section 013100 "Project Management and Coordination."

1.4 DELIVERY, STORAGE, AND HANDLING

- A. Deliver keys to manufacturer of key control system for subsequent delivery to Owner.
- B. Deliver keys to Owner by registered mail or overnight package service.

1.5 WARRANTY

- A. Special Warranty: Manufacturer's standard form in which manufacturer agrees to repair or replace components of door hardware that fail in materials or workmanship within specified warranty period.
 - 1. Warranty Period: Three years from date of Substantial Completion, unless otherwise indicated:
 - a. Exit Devices: Two years from date of Substantial Completion.
 - b. Closers: 25 years from date of Substantial Completion.

PART 2 - PRODUCTS

2.1 SCHEDULED DOOR HARDWARE

- A. Provide door hardware for each door as scheduled in Part 3 "Door Hardware Schedule" Article to comply with requirements in this Section.
 - 1. Door Hardware Sets: Provide quantity, item, size, finish or color indicated, and named manufacturers' products.
 - 2. Sequence of Operation: Provide electrified door hardware function, sequence of operation, and interface with other building control systems indicated.
- B. Designations: Requirements for design, grade, function, finish, size, and other distinctive qualities of each type of door hardware are indicated in Part 3 "Door Hardware Sets" Article. Products are identified by using door hardware designations, as follows:
 - 1. Named Manufacturers' Products: Manufacturer and product designation are listed for each door hardware type required for the purpose of establishing minimum requirements. Manufacturers' names are abbreviated in Part 3 "Door Hardware Schedule" Article.

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2.2 HINGES

- A. Hinges: BHMA A156.1. Provide template-produced hinges for hinges installed on hollow-metal doors and hollow-metal frames.
- B. Hinge Base Metal: Unless otherwise indicated, provide the following:
 - 1. Interior Hinges: Steel, with steel pin
 - 2. Hinges for Fire-Rated Assemblies: Steel, with steel pin
- C. Fasteners: Comply with the following:
 - 1. Machine Screws: For metal doors and frames. Install into drilled and tapped holes.
 - 2. Wood Screws: For wood doors and frames.
 - 3. Threaded-to-the-Head Wood Screws: For fire-rated wood doors.
 - 4. Screws: Phillips flat-head; machine screws drilled and tapped holes for metal doors, wood screws for wood doors and frames. Finish screw heads to match surface of hinges.
- D. Basis-of-Design Product: Subject to compliance with requirements, provide product indicated on schedule or comparable product by one of the following:
 - 1. Hager Companies.
 - 2. McKinney Products Company; an ASSA ABLOY Group company.

2.3 CONTINUOUS HINGES

- A. Continuous Hinges: BHMA A156.26; minimum **0.120-inch** thick, hinge leaves with minimum overall width of **4 inches**; fabricated to full height of door and frame and to template screw locations; with components finished after milling and drilling are complete.
- B. Continuous, Gear-Type Hinges: Extruded-aluminum, pinless, geared hinge leaves; joined by a continuous extruded-aluminum channel cap; with concealed, self-lubricating thrust bearings.
 - 1. Basis-of-Design Product: Subject to compliance with requirements, provide product indicated on schedule or comparable product by one of the following:
 - a. Hager Companies.
 - b. McKinney Products Company; an ASSA ABLOY Group company.

2.4 LOCKS AND LATCHES, GENERAL

- A. Accessibility Requirements: Provide operating devices that do not require tight grasping, pinching, or twisting of the wrist and that operate with a force of not more than **5 lbf**.
- B. Latches and Locks for Means of Egress Doors: Comply with NFPA 101. Latches shall not require more than **15 lbf** to release the latch. Locks shall not require use of a key, tool, or special knowledge for operation.

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- C. Electrified Locking Devices: BHMA A156.25.
- D. Lock Throw: Comply with testing requirements for length of bolts required for labeled fire doors.
- E. Backset: **2-3/4 inches**, unless otherwise indicated.
- F. Strikes: Manufacturer's standard strike with strike box for each latchbolt or lock bolt, with curved lip extended to protect frame, finished to match door hardware set.

2.5 MECHANICAL LOCKS AND LATCHES

- A. Strikes: Provide manufacturer's standard strike for each lock bolt or latchbolt complying with requirements indicated for applicable lock or latch and with strike box and curved lip extended to protect frame; finished to match lock or latch.
 - 1. Flat-Lip Strikes: For locks with three-piece antifriction latchbolts, as recommended by manufacturer.
 - 2. Extra-Long-Lip Strikes: For locks used on frames with applied wood casing trim.
 - 3. Aluminum-Frame Strike Box: Manufacturer's special strike box fabricated for aluminum framing.
 - 4. Rabbet Front and Strike: Provide on locksets for rabbeted meeting stiles.
- B. Bored Locks: BHMA A156.2, Grade 1; Series 4000.
 - 1. Basis-of-Design Product: Subject to compliance with requirements, provide product indicated on schedule or comparable product by one of the following:
 - a. SARGENT Manufacturing Company; an ASSA ABLOY Group company.
- C. Mortise Locks: BHMA A156.13; Operational Grade 1; stamped steel case with steel or brass parts; Series 1000
 - 1. Basis-of-Design Product: Subject to compliance with requirements, provide product indicated on schedule or comparable product by one of the following:
 - a. SARGENT Manufacturing Company; an ASSA ABLOY Group company.

2.6 AUTOMATIC AND SELF-LATCHING FLUSH BOLTS

- A. Automatic and Self-Latching Flush Bolts: BHMA A156.16, Grade 2; minimum **3/4-inch** throw; designed for mortising into door edge.
 - 1. Basis-of-Design Product: Subject to compliance with requirements, provide product indicated on schedule or comparable product by one of the following:
 - a. Rockwood

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- b. IVES Hardware; an Ingersoll-Rand company.
- c. Trimco.

2.7 EXIT DEVICES AND AUXILIARY ITEMS

- A. Exit Devices: BHMA A156.3, Grade 1
- B. Accessibility Requirements: Provide operating devices that do not require tight grasping, pinching, or twisting of the wrist and that operate with a force of not more than **5 lbf**.
- C. Exit Devices for Means of Egress Doors: Comply with NFPA 101. Exit devices shall not require more than **15 lbf** to release the latch. Locks shall not require use of a key, tool, or special knowledge for operation.
- D. Panic Exit Devices: Listed and labeled by a testing and inspecting agency acceptable to authorities having jurisdiction, for panic protection, based on testing according to UL 305.
- E. Fire Exit Devices: Devices complying with NFPA 80 that are listed and labeled by a testing and inspecting agency acceptable to authorities having jurisdiction, for fire and panic protection, based on testing according to UL 305 and NFPA 252.
- F. Removable Mullions: BHMA A156.3.
- G. Fire-Exit Removable Mullions: Provide removable mullions for use with fire exit devices complying with NFPA 80 that are listed and labeled by a testing and inspecting agency acceptable to authorities having jurisdiction, for fire and panic protection, based on testing according to UL 305 and NFPA 252. Mullions shall be used only with exit devices for which they have been tested.
 - 1. Basis-of-Design Product: Subject to compliance with requirements, provide product indicated on schedule or comparable product by one of the following:
 - a. SARGENT Manufacturing Company; an ASSA ABLOY Group company.
 - b. Von Duprin; an Ingersoll-Rand company.

2.8 LOCK CYLINDERS

- A. Lock Cylinders: Tumbler type, constructed from brass or bronze, stainless steel, or nickel silver.
 - 1. Manufacturer: Same manufacturer as for locking devices.
 - 2. Basis-of-Design Product: Subject to compliance with requirements, provide product indicated on schedule or comparable product by one of the following:
 - a. SARGENT Manufacturing Company; an ASSA ABLOY Group company.

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2.9 KEYING

- A. Keying System: Incorporate decisions made in keying conference:
 - 1. Existing System:
 - a. Master key or grand master key locks to Owner's existing system.
- B. Keys: Nickel silver
 - 1. Stamping: Permanently inscribe each key with a visual key control number and include the following notation:
 - a. Notation: Information to be furnished by Owner.
 - 1) Cylinder Change Keys: Three.
 - 2) Master Keys: Five.
 - 3) Grand Master Keys: Five.
 - 4) Great-Grand Master Keys: Five.

2.10 KEY CONTROL SYSTEM

- A. Key Control Cabinet: BHMA A156.5; metal cabinet with baked-enamel finish; containing key-holding hooks, labels, 2 sets of key tags with self-locking key holders, key-gathering envelopes, and temporary and permanent markers; with key capacity of 150 percent of the number of locks.
 - 1. Basis-of-Design Product: Subject to compliance with requirements, provide product indicated on schedule or comparable product by one of the following:
 - a. American Key Boxes and Cabinets.
 - b. GE Security, Inc.
 - c. HPC, Inc.
 - d. Lund Equipment Co., Inc.
 - e. MMF Industries.
 - 2. Wall-Mounted Cabinet: Cabinet with hinged-panel door equipped with key-holding panels and pin-tumbler cylinder door lock.

2.11 SURFACE CLOSERS

- A. Surface Closers: BHMA A156.4; rack-and-pinion hydraulic type with adjustable sweep and latch speeds controlled by key-operated valves and forged-steel main arm. Comply with NFPA 101 and manufacturer's written recommendations for size of door closers depending on size of door, exposure to weather, and anticipated frequency of use. Provide factory-sized closers, adjustable to meet field conditions and requirements for opening force.
 - 1. Basis-of-Design Product: Subject to compliance with requirements, provide product indicated on schedule or comparable product by one of the following:
 - a. LCN Closers; an Ingersoll-Rand company.
 - b. SARGENT Manufacturing Company; an ASSA ABLOY Group company.

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2.12 PROTECTIVE TRIM UNITS

- A. Size: **2 inches** less than door width on push side and **2 inch** less than door width on pull side, by height specified in door hardware sets.
- B. Metal Protective Trim Units: Beveled 4 sides; fabricated from material indicated in door hardware sets.
 - 1. Material: **0.050-inch** thick stainless steel.
 - 2. Manufacturers:
 - a. Rockwood Manufacturing Company (RM).
 - b. Trimco (TBM).

2.13 MECHANICAL STOPS AND HOLDERS

- A. Wall- and Floor-Mounted Stops: BHMA A156.16.
 - 1. Basis-of-Design Product: Subject to compliance with requirements, provide product indicated on schedule or comparable product by one of the following:
 - a. Hiawatha, Inc.
 - b. IVES Hardware; an Ingersoll-Rand company.
 - c. Rockwood Manufacturing Company.
 - d. Trimco.

2.14 OVERHEAD STOPS AND HOLDERS

- A. Overhead Stops and Holders: BHMA A156.8.
 - 1. Basis-of-Design Product: Subject to compliance with requirements, provide product indicated on schedule or comparable product by one of the following:
 - a. Rockwood Manufacturing Company.
 - b. SARGENT Manufacturing Company; an ASSA ABLOY Group company.
 - c. Rixson

2.15 DOOR GASKETING

- A. Door Gasketing: BHMA A156.22; air leakage not to exceed **0.50 cfm per foot** of crack length for gasketing other than for smoke control, as tested according to ASTM E 283; with resilient or flexible seal strips that are easily replaceable and readily available from stocks maintained by manufacturer.
- B. Standard: BHMA A156.22.

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- C. General: Provide continuous weather-strip gasketing on exterior doors and provide smoke, light, or sound gasketing on interior doors where indicated or scheduled. Provide noncorrosive fasteners for exterior applications and elsewhere as indicated.
 - 1. Perimeter Gasketing: Apply to head and jamb, forming seal between door and frame.
 - 2. Meeting Stile Gasketing: Fasten to meeting stiles, forming seal when doors are closed.
 - 3. Door Bottoms: Apply to bottom of door, forming seal with threshold when door is closed.

- D. Smoke-Labeled Gasketing: Assemblies complying with NFPA 105 that are listed and labeled by a testing and inspecting agency acceptable to authorities having jurisdiction, for smoke-control ratings indicated, based on testing according to UL 1784.
 - 1. Provide smoke-labeled gasketing on 20-minute-rated doors and on smoke-labeled doors.

- E. Sound-Rated Gasketing: Assemblies that are listed and labeled by a testing and inspecting agency, for sound ratings indicated, based on testing according to ASTM E 1408.

- F. Replaceable Seal Strips: Provide only those units where resilient or flexible seal strips are easily replaceable and readily available from stocks maintained by manufacturer.

- G. Gasketing Materials: ASTM D 2000 and AAMA 701/702.
 - 1. Basis-of-Design Product: Subject to compliance with requirements, provide product indicated on schedule or comparable product by one of the following:
 - a. Pemko Manufacturing Co.; an ASSA ABLOY Group company.
 - b. Reese Enterprises, Inc.
 - c. Zero

2.16 THRESHOLDS

- A. Thresholds: BHMA A156.21; fabricated to full width of opening indicated.

- B. Accessibility Requirements: Bevel raised thresholds with a slope of not more than 1:2. Provide thresholds not more than **1/2 inch** high including compressible seal to bottom of door.

- C. Thresholds for Means of Egress Doors: Comply with NFPA 101. Maximum **1/2 inch** high.
 - 1. Basis-of-Design Product: Subject to compliance with requirements, provide product indicated on schedule or comparable product by one of the following:
 - a. Zero
 - b. Pemko Manufacturing Co.; an ASSA ABLOY Group company.
 - c. Reese Enterprises, Inc.

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2.17 FABRICATION

- A. Fasteners: Provide door hardware manufactured to comply with published templates prepared for machine, wood, and sheet metal screws. Provide screws that comply with commercially recognized industry standards for application intended, except aluminum fasteners are not permitted. Provide Phillips flat-head screws with finished heads to match surface of door hardware, unless otherwise indicated.
1. Concealed Fasteners: For door hardware units that are exposed when door is closed, except for units already specified with concealed fasteners. Do not use through bolts for installation where bolt head or nut on opposite face is exposed unless it is the only means of securely attaching the door hardware. Where through bolts are used on hollow door and frame construction, provide sleeves for each through bolt.
 2. Fire-Rated Applications:
 - a. Wood or Machine Screws: For the following:
 - 1) Hinges mortised to doors or frames; use threaded-to-the-head wood screws for wood doors and frames.
 - 2) Strike plates to frames.
 - 3) Closers to doors and frames.
 - b. Steel Through Bolts: For the following unless door blocking is provided:
 - 1) Surface hinges to doors.
 - 2) Closers to doors and frames.
 - 3) Surface-mounted exit devices.
 3. Spacers or Sex Bolts: For through bolting of hollow-metal doors.
 4. Fasteners for Wood Doors: Comply with requirements in DHI WDHS.2, "Recommended Fasteners for Wood Doors."
 5. Gasketing Fasteners: Provide noncorrosive fasteners for exterior applications and elsewhere as indicated.

2.18 FINISHES

- A. Provide finishes complying with BHMA A156.18 as indicated in door hardware schedule.
- B. Protect mechanical finishes on exposed surfaces from damage by applying a strippable, temporary protective covering before shipping.

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PART 3 - EXECUTION

3.1 INSTALLATION

- A. Steel Doors and Frames: For surface applied door hardware, drill and tap doors and frames according to ANSI/SDI A250.6.
- B. Wood Doors: Comply with DHI WDHS.5 "Recommended Hardware Reinforcement Locations for Mineral Core Wood Flush Doors."
- C. Mounting Heights: Mount door hardware units at height to comply with the following unless otherwise indicated or required to comply with governing regulations.
 - 1. Standard Steel Doors and Frames: ANSI/SDI A250.8.
 - 2. Wood Doors: DHI WDHS.3, "Recommended Locations for Architectural Hardware for Wood Flush Doors."
- D. Install each door hardware item to comply with manufacturer's written instructions. Where cutting and fitting are required to install door hardware onto or into surfaces that are later to be painted or finished in another way, coordinate removal, storage, and reinstallation of surface protective trim units with finishing work. Do not install surface-mounted items until finishes have been completed on substrates involved.
 - 1. Set units level, plumb, and true to line and location. Adjust and reinforce attachment substrates as necessary for proper installation and operation.
 - 2. Drill and countersink units that are not factory prepared for anchorage fasteners. Space fasteners and anchors according to industry standards.
- E. Hinges: Install types and in quantities indicated in door hardware schedule but not fewer than the number recommended by manufacturer for application indicated or one hinge for every **30 inches** of door height, whichever is more stringent, unless other equivalent means of support for door, such as spring hinges or pivots, are provided.
- F. Lock Cylinders: Install construction cores to secure building and areas during construction period.
 - 1. Furnish permanent cores to Owner for installation.
- G. Key Control System: Tag keys and place them on markers and hooks in key control system cabinet, as determined by final keying schedule.
- H. Boxed Power Supplies: Locate power supplies as indicated or, if not indicated, equipment room. Verify location with Architect.
 - 1. Configuration: Provide least number of power supplies required to adequately serve doors with electrified door hardware.

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- I. Thresholds: Set thresholds for exterior doors and other doors indicated in full bed of sealant complying with requirements specified in Section 079200 "Joint Sealants."
- J. Stops: Provide floor stops for doors unless wall or other type stops are indicated in door hardware schedule. Do not mount floor stops where they will impede traffic.
- K. Perimeter Gasketing: Apply to head and jamb, forming seal between door and frame.
- L. Meeting Stile Gasketing: Fasten to meeting stiles, forming seal when doors are closed.
- M. Door Bottoms: Apply to bottom of door, forming seal with threshold when door is closed.
- N. Adjustment: Adjust and check each operating item of door hardware and each door to ensure proper operation or function of every unit. Replace units that cannot be adjusted to operate as intended. Adjust door control devices to compensate for final operation of heating and ventilating equipment and to comply with referenced accessibility requirements.

3.2 DOOR HARDWARE SCHEDULE

- A. Manufacturers:
 - 1. MK - McKinney
 - 2. RO - Rockwood
 - 3. SA - Sargent
 - 4. HS - HES
 - 5. NO - Norton
 - 6. PE - Pemko
 - 7. SU - Securitron

Set: 1.0

Doors: 0G101

Description:

3 Hinge (heavy weight)	T4A3786 5" x 4-1/2"	US26D	MK
1 Exit Device	12 82 8813 ETL	US32D	SA
1 Door Closer	281 O	EN	SA
1 Wall Stop	409	US32D	RO
1 Gasketing	S88D		PE

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Set: 2.0

Doors: 0G103, 0G105, 1G155
 Description: Door w/Prox Reader

3 Hinge (heavy weight)	T4A3786 5" x 4-1/2"	US26D	MK
1 Storeroom Lock	82 11G04 LL	US26D	SA
1 SMART Pac Bridge Rectifier	2005M3		HS
1 Electric Strike	1006-J	630	HS
1 Door Closer	281 O	EN	SA
1 Wall Stop	409	US32D	RO
1 Gasketing	S88D		PE
1 Power Supply	BPS-24-1		SU

Notes: Prox reader releases electric strike allowing entry. Prox reader furnished and installed by Owner.
 Wiring by Electrical Contractor.

Set: 3.0

Doors: 0G104
 Description:

3 Hinge (heavy weight)	T4A3786 5" x 4-1/2"	US26D	MK
1 Storeroom Lock	82 11G04 LL	US26D	SA
1 Door Closer	281 P10	EN	SA
1 Gasketing	S88D		PE

Set: 4.0

Doors: 0G106, 1G103A
 Description:

3 Hinge	TA2714 4-1/2" x 4-1/2"	US26D	MK
1 Classroom Lock	82 11G37 LL	US26D	SA
1 Wall Stop	409	US32D	RO

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Set: 5.0

Doors: 0G107, 1F104, 1F105, 1F108, 1F110, 1F111, 1F112, 1F114, 1F115, 1F116, 1F117, 1F125, 1F126, 1F127, 1F134, 1F135, 1F143, 1F144, 1F147, 1F148, 1F150, 1F151, 1F153, 1F156, 1F157, 1F158, 1F162, 1F165, 1G103B, 1G166

Description: rw-05-ws

3 Hinge	TA2714 4-1/2" x 4-1/2"	US26D	MK
1 Office Lock	82 11G05 LL	US26D	SA
1 Wall Stop	409	US32D	RO

Set: 6.0

Doors: 0G109, 0G125, 0G126, 0G127, 0G128, 0G130

Description:

3 Hinge	TA2714 4-1/2" x 4-1/2"	US26D	MK
1 Classroom Lock	82 11G37 LL	US26D	SA
1 Wall Stop	409	US32D	RO
2 Gasketing	S88D		PE
1 Door Bottom	430CPKL		PE

Notes: Mount 2 rows of gasketing side by side to form sound seal.

Set: 7.0

Doors: 0G111a, 0G111b, 0G123, 0G124

Description

3 Hinge	TA2714 4-1/2" x 4-1/2"	US26D	MK
1 Exit Device	82 8813 ETL	US32D	SA
1 Door Closer	281 PSH	EN	SA
1 Wall Stop	409	US32D	RO

Set: 8.0

Doors: 0G111c, 1F164

Description:

3 Hinge	TA2714 4-1/2" x 4-1/2"	US26D	MK
1 Storeroom Lock	82 11G04 LL	US26D	SA
1 Door Closer	281 PS	EN	SA
1 Gasketing	S88D		PE

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Set: 9.0

Doors: 0G112, 0G113, 1F130, 1F131

Description:

3 Hinge (heavy weight)	T4A3786 4-1/2" x 4-1/2"	US26D	MK
1 Push Plate	70F	US32D	RO
1 Pull Plate	110x70C	US32D	RO
1 Door Closer	281 O	EN	SA
1 Wall Stop	409	US32D	RO

Set: 10.0

Doors: 0G114

Description: Pair Doors w/ Prox Reader

5 Hinge (heavy weight)	T4A3786 4-1/2" x 4-1/2"	US26D	MK
1 Hinge (heavy weight)	T4A3786 QC-12 4-1/2" x 4-1/2"	US26D	MK
2 Flush Bolt	1962	US32D	RO
1 Dust Proof Strike	570	US26D	RO
1 Storeroom Lock	82 11G04 LL	US26D	SA
1 SMART Pac Bridge Rectifier	2005M3		HS
1 Electric Strike	1006-J	630	HS
1 Coordinator	1672	US28	RO
2 Door Closer	281 O	EN	SA
2 Wall Stop	409	US32D	RO
2 Gasketing	S88D		PE
2 Door Bottom	430CPKL		PE
1 Astragal	S772D		PE
2 ElectroLynx Connector	As Required		SA
1 Power Supply	BPS-24-1		SU

Notes: Prox reader releases electric strike allowing entry.

Prox reader furnished and installed by Owner.

Wiring by Electrical Contractor.

Door to have raceway with electrolynx connector installed at factory at time of door construction.

Mount 2 rows of gasketing side by side to form sound seal.

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Set: 11.0

Doors: 0G115

Description:

3 Hinge	TA2714 4-1/2" x 4-1/2"	US26D	MK
1 Institutional Lock	82 11G17 LL	US26D	SA
1 Door Closer	281 O	EN	SA
1 Wall Stop	409	US32D	RO
1 Gasketing	S88D		PE

Set: 12.0

Doors: 0G116, 1F154, 1F160, 1G153, 1G163

Description: Door w/ Prox Reader

3 Hinge	TA2714 4-1/2" x 4-1/2"	US26D	MK
1 Storeroom Lock	82 11G04 LL	US26D	SA
1 SMART Pac Bridge Rectifier	2005M3		HS
1 Electric Strike	1006-J	630	HS
1 Door Closer	281 P10	EN	SA
1 Gasketing	S88D		PE
1 Power Supply	BPS-24-1		SU

Notes: Prox reader releases electric strike allowing entry.

Prox reader furnished and installed by owner.

Wiring by electrical contractor

Set: 13.0

Doors: 0G117, 1F107, 1F109, 1F136, 1F139, 1F142, 1F145

Description:

3 Hinge	TA2714 4-1/2" x 4-1/2"	US26D	MK
1 Storeroom Lock	82 11G04 LL	US26D	SA
1 Wall Stop	409	US32D	RO

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Set: 14.0

Doors: 0G118

Description:

3 Hinge (heavy weight)	T4A3786 5" x 4-1/2"	US26D	MK
1 Exit Device	12 82 8813 ETL	US32D	SA
1 Door Closer	281 PS	EN	SA
1 Gasketing	S88D		PE

Set: 15.0

Doors: 0G119

Description: Door w/ Prox Reader

3 Hinge	TA2714 4-1/2" x 4-1/2"	US26D	MK
1 Storeroom Lock	82 11G04 LL	US26D	SA
1 SMART Pac Bridge Rectifier	2005M3		HS
1 Electric Strike	1006-J	630	HS
1 Door Closer	281 PSH	EN	SA
1 Gasketing	S88D		PE
1 Power Supply	BPS-24-1		SU

Notes: Prox reader releases electric strike allowing entry. Prox reader furnished and installed by Owner. Wiring by Electrical Contractor.

Set: 16.0

Doors: 0G120, 0G122, 1G165, 1G167

Description:

3 Hinge	TA2714 4-1/2" x 4-1/2"	US26D	MK
1 Classroom Lock	82 11G37 LL	US26D	SA
1 Door Closer	281 P10	EN	SA
1 Wall Stop	409	US32D	RO

Set: 17.0

Doors: 0G121, 1G152b

Description: Exterior Alum Door w/ Prox Reader

1 Continuous Hinge	MCK-12HD Custom Cut to Length	CL	MK
1 Exit Device	82 AD8504 862	US32D	SA

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1 Electric Strike	9400-12/24D	630	HS
1 SMART Pac Bridge Rectifier	2005M3		HS
1 Door Closer	281 PSH 281D 581-2	EN	SA
1 Threshold	171A		PE
1 Sweep	3452CNB		PE
1 Power Supply	BPS-24-1		SU

Notes: Prox reader releases electric strike allowing entry. Prox reader furnished and installed by Owner. Weatherstrip furnished by aluminum door supplier. Wiring by Electrical Contractor.

Set: 18.0

Doors: 0G129

Description:

3 Hinge	TA2714 4-1/2" x 4-1/2"	US26D	MK
1 Classroom Lock	82 11G37 LL	US26D	SA
1 Concealed Overhead Holder/Stop	1538S	US26D	SA
1 Gasketing	S88D		PE
1 Door Bottom	430CPKL		PE

Notes: Mount 2 rows of gasketing side by side to form sound seal.

Set: 19.0

Doors: 0G132, 1F129A

Description: Exterior Alum Exit Only Door

1 Continuous Hinge	MCK-12HD Custom Cut to Length	CL	MK
1 Exit Device	AD8510	US32D	SA
1 Door Closer	281 PSH 281D 581-2	EN	SA
1 Threshold	171A		PE
1 Sweep	3452CNB		PE

Notes: Weatherstrip furnished by alum. door supplier.

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Set: 20.0

Doors: 1F100, 1F128B, 1G101A

Description: Exterior Alum Door w/ Auto Operator

1 Continuous Hinge	MCK-12HD Custom Cut to Length	CL	MK
1 Exit Device	AD8515 ETL	US32D	SA
1 Electric Strike	9400-12/24D	630	HS
1 SMART Pac Bridge Rectifier	2005M3		HS
2 Door Actuator	501		NO
1 Automatic Operator	6060 D	689	NO
1 Threshold	171A		PE
1 Sweep	3452CNB		PE

Notes: Exit device always free both sides. Either exterior or interior actuator sends signal to electric strike to release and auto operator to open door. Wiring by Electrical Contractor.

Set: 21.0

Doors: 1F101, 1F128A, 1F129C, 1F152, 1G101B

Description: Vestibule Alum Door w/ Prox Reader & Auto Operator

1 Continuous Hinge	MCK-12HD Custom Cut to Length	CL	MK
1 Exit Device	82 AD8504 862	US32D	SA
1 Electric Strike	9400-12/24D	630	HS
1 SMART Pac Bridge Rectifier	2005M3		HS
1 Door Actuator	501		NO
1 Automatic Operator	6060 D	689	NO
1 Wall Stop	409	US32D	RO
1 Push Button	PB3ER		SU

Notes: Prox reader releases electric strike allowing entry. Prox reader and timer furnished and installed by Owner. Push button at desk releases electric strike allowing entry. Anytime after electric strike releases the actuator will activate the auto operator to open door. From inside at anytime the inside actuator will send signal to electric strike to release and auto operator to open door. Wiring by Electrical Contractor.

Set: 22.0

Doors: 1G103C

Description: Surface Sliding Door

2 Door Pull	102 Mtg-Type 5	US32D	RO
1 Sliding Door Hdwe	280SWTKIT/8		PE

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Set: 23.0

Doors: 1G104

Description: Door w/ Exit Device & Prox Reader

3 Hinge	TA2714 4-1/2" x 4-1/2"	US26D	MK
1 Exit Device	12 82 8813 ETL	US32D	SA
1 SMART Pac Bridge Rectifier	2005M3		HS
1 Electric Strike	9500-12/24D	630	HS
1 Door Closer	281 PS	EN	SA
1 Gasketing	S88D		PE
1 Power Supply	BPS-24-1		SU

Notes: Prox reader releases electric strike allowing entry. Prox reader furnished and installed by Owner. Wiring by Electrical Contractor.

Set: 24.0

Doors: 1G105, 1G127, 1G152a

Description: Door w/ Exit Device & Prox Reader

3 Hinge (heavy weight)	T4A3786 5" x 4-1/2"	US26D	MK
1 Exit Device	12 82 8813 ETL	US32D	SA
1 SMART Pac Bridge Rectifier	2005M3		HS
1 Electric Strike	9500-12/24D	630	HS
1 Door Closer	281 O	EN	SA
1 Wall Stop	409	US32D	RO
1 Gasketing	S88D		PE
1 Power Supply	BPS-24-1		SU

Set: 25.0

Doors: 1G107, 1G109, 1G111, 1G116, 1G118, 1G120, 1G122, 1G125, 1G128, 1G131, 1G133, 1G135, 1G137, 1G144, 1G146, 1G149

Description: Patient Rooms

3 Hinge (heavy weight)	T4A3786 5" x 4-1/2"	US26D	MK
1 Classroom Lock	82 8237 ALP	US32D	SA
1 Door Closer	281 P10	EN	SA
1 Wall Stop	409	US32D	RO
1 Gasketing	S88D		PE

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Set: 26.0

Doors: 1G108, 1G110, 1G112, 1G117, 1G119, 1G121, 1G123, 1G126, 1G129, 1G132, 1G134, 1G136, 1G138, 1G145, 1G147, 1G150, 1G154

Description: Patient Baths

3 Hinge	TA2714 4-1/2" x 4-1/2"	US26D	MK
1 Institutional Privacy Lock	82 8267 ALP	US32D	SA
1 Wall Stop	409	US32D	RO

Set: 27.0

Doors: 1G114a, 1G114b, 1G140A, 1G140B

Description:

3 Hinge	TA2714 4-1/2" x 4-1/2"	US26D	MK
1 Passage Set	11U15 LL	US26D	SA
1 Door Closer	281 P10	EN	SA
1 Wall Stop	409	US32D	RO

Set: 28.0

Doors: 1F118, 1F121, 1G142, 1G143, 1G158, 1G159, 1G161

Description: Door w/ Prox Reader

3 Hinge	TA2714 4-1/2" x 4-1/2"	US26D	MK
1 Storeroom Lock	82 11G04 LL	US26D	SA
1 SMART Pac Bridge Rectifier	2005M3		HS
1 Electric Strike	1006-J	630	HS
1 Door Closer	281 O	EN	SA
1 Wall Stop	409	US32D	RO
1 Power Supply	BPS-24-1		SU

Notes: Prox reader releases electric strike allowing entry. Prox reader furnished and installed by Owner. Wiring by Electrical Contractor.

Set: 29.0

Doors: 1F166, 1G156

Description:

3 Hinge (heavy weight)	T4A3786 5" x 4-1/2"	US26D	MK
1 Storeroom Lock	82 11G04 LL	US26D	SA

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1 Door Closer	281 O	EN	SA
1 Wall Stop	409	US32D	RO
1 Gasketing	S88D		PE

Set: 30.0

Doors: 1G157, 1G164

Description:

3 Hinge	TA2714 4-1/2" x 4-1/2"	US26D	MK
1 Passage Set	8215 ALP	US32D	SA
1 Wall Stop	409	US32D	RO

Set: 31.0

Doors: 1G162

Description:

3 Hinge	TA2714 4-1/2" x 4-1/2"	US26D	MK
1 Storeroom Lock	82 11G04 LL	US26D	SA
1 Door Closer	281 P10	EN	SA
1 Wall Stop	409	US32D	RO

Set: 32.0

Doors: 1G168, 1G169

Description:

3 Hinge	TA2714 4-1/2" x 4-1/2"	US26D	MK
1 Privacy Set	11U65 LL	US26D	SA
1 Door Closer	281 P10	EN	SA
1 Wall Stop	409	US32D	RO
1 Gasketing	S88D		PE

Set: 33.0

Doors: 1F102

Description:

3 Hinge	TA2714 4-1/2" x 4-1/2"	US26D	MK
1 Passage Set	11U15 LL	US26D	SA
1 Wall Stop	409	US32D	RO

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Set: 34.0

Doors: 1F119, 1F120

Description:

3 Hinge	TA2714 4-1/2" x 4-1/2"	US26D	MK
1 Privacy Set	11U65 LL	US26D	SA
1 Concealed Overhead Holder/Stop	1538S	US26D	SA

Set: 35.0

Doors: 1F129B

Description: Exterior Alum Door w/ Prox Reader & Auto Operator

1 Continuous Hinge	MCK-12HD Custom Cut to Length	CL	MK
1 Exit Device	82 AD8504 862	US32D	SA
1 Electric Strike	9400-12/24D	630	HS
1 SMART Pac Bridge Rectifier	2005M3		HS
1 Door Actuator	501		NO
1 Automatic Operator	6060 D	689	NO
1 Threshold	171A		PE
1 Sweep	3452CNB		PE

Notes: Prox reader releases electric strike allowing entry. Prox reader and timer furnished and installed by Owner. Anytime after electric strike releases the actuator will activate the auto operator to open door. From inside at anytime the inside actuator will send signal to electric strike to release and auto operator to open door. Wiring by Electrical Contractor.

Set: 36.0

Doors: 1F161

Description:

6 Hinge	TA2714 4-1/2" x 4-1/2"	US26D	MK
2 Flush Bolt	1962	US32D	RO
1 Dust Proof Strike	570	US26D	RO
1 Storeroom Lock	82 11G04 LL	US26D	SA
1 Coordinator	1672	US28	RO
2 Door Closer	281 PS	EN	SA
1 Gasketing	S88D		PE

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0G101	1.0
0G103	2.0
0G104	3.0
0G105	2.0
0G106	4.0
0G107	5.0
0G109	6.0
0G111a	7.0
0G111b	7.0
0G111c	8.0
0G112	9.0
0G113	9.0
0G114	10.0
0G115	11.0
0G116	12.0
0G117	13.0
0G118	14.0
0G119	15.0
0G120	16.0
0G121	17.0
0G122	16.0
0G123	7.0
0G124	7.0
0G125	6.0
0G126	6.0
0G127	6.0
0G128	6.0
0G129	18.0
0G130	6.0
0G132	19.0
1F100	20.0
1F101	21.0
1F102	33.0
1F104	5.0
1F105	5.0
1F107	13.0
1F108	5.0
1F109	13.0
1F110	5.0
1F111	5.0
1F112	5.0

1F114	5.0
1F115	5.0
1F116	5.0
1F117	5.0
1F118	28.0
1F119	34.0
1F120	34.0
1F121	28.0
1F125	5.0
1F126	5.0
1F127	5.0
1F128A	21.0
1F128B	20.0
1F129A	19.0
1F129B	35.0
1F129C	21.0
1F130	9.0
1F131	9.0
1F134	5.0
1F135	5.0
1F136	13.0
1F139	13.0
1F142	13.0
1F143	5.0
1F144	5.0
1F145	13.0
1F147	5.0
1F148	5.0
1F150	5.0
1F151	5.0
1F152	21.0
1F153	5.0
1F154	12.0
1F156	5.0
1F157	5.0
1F158	5.0
1F160	12.0
1F161	36.0
1F162	5.0
1F164	8.0
1F165	5.0

1F166	29.0
1G101A	20.0
1G101B	21.0
1G103A	4.0
1G103B	5.0
1G103C	22.0
1G104	23.0
1G105	24.0
1G107	25.0
1G108	26.0
1G109	25.0
1G110	26.0
1G111	25.0
1G112	26.0
1G114a	27.0
1G114b	27.0
1G116	25.0
1G117	26.0
1G118	25.0
1G119	26.0
1G120	25.0
1G121	26.0
1G122	25.0
1G123	26.0
1G125	25.0
1G126	26.0
1G127	24.0
1G128	25.0
1G129	26.0
1G131	25.0
1G132	26.0
1G133	25.0
1G134	26.0
1G135	25.0
1G136	26.0
1G137	25.0
1G138	26.0
1G140A	27.0
1G140B	27.0
1G142	28.0
1G143	28.0

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1G144	25.0
1G145	26.0
1G146	25.0
1G147	26.0
1G149	25.0
1G150	26.0
1G152a	24.0
1G152b	17.0

1G153	12.0
1G154	26.0
1G155	2.0
1G156	29.0
1G157	30.0
1G158	28.0
1G159	28.0
1G161	28.0

1G162	31.0
1G163	12.0
1G164	30.0
1G165	16.0
1G166	5.0
1G167	16.0
1G168	32.0
1G169	32.0

END OF SECTION 087100

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SECTION 089119 - FIXED LOUVERS

PART 1 - GENERAL

1.1 SUMMARY

- A. Section includes fixed, extruded-aluminum louvers.

1.2 ACTION SUBMITTALS

- A. Product Data: For each type of product.
 - 1. For louvers specified to bear AMCA seal, include printed catalog pages showing specified models with appropriate AMCA Certified Ratings Seals.
- B. Shop Drawings: For louvers and accessories. Include plans, elevations, sections, details, and attachments to other work. Show frame profiles and blade profiles, angles, and spacing.
- C. Samples: For each type of metal finish required.

1.3 INFORMATIONAL SUBMITTALS

- A. Windborne-debris-impact-resistance test reports.

PART 2 - PRODUCTS

2.1 PERFORMANCE REQUIREMENTS

- A. Delegated Design: Design louvers, including comprehensive engineering analysis by a qualified professional engineer, using structural performance requirements and design criteria indicated.

2.2 FIXED, EXTRUDED-ALUMINUM LOUVERS

- A. Horizontal, Drainable-Blade Louver:
 - 1. Basis-of-Design Product: The design for each louver is based on the product named on the Louver and Vent Schedule. Subject to compliance with requirements, provide the named product or a comparable product by one of the following:
 - a. Greenheck Fan Corporation.

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2. Louver Depth: **4 inches**.
3. Frame and Blade Nominal Thickness: Not less than **0.080 inch** for blades and frames.
4. Mullion Type: Exposed.
5. Louver Performance Ratings: See plans for Louver and Vent Schedule
6. AMCA Seal: Mark units with AMCA Certified Ratings Seal.

2.3 LOUVER SCREENS

- A. General: Provide screen at each exterior louver.
 1. Screen Location for Fixed Louvers: Exterior face.
 2. Screening Type: Bird screening and insect screening.
- B. Louver Screen Frames: Same type and form of metal as indicated for louver to which screens are attached.
- C. Louver Screening for Aluminum Louvers:
 1. Bird Screening: Aluminum, **1/4-inch** square mesh, **0.063-inch** wire.

2.4 MATERIALS

- A. Aluminum Extrusions: **ASTM B 221**, Alloy 6063-T5, T-52, or T6.
- B. Aluminum Sheet: **ASTM B 209**, Alloy 3003 or 5005 with temper as required for forming, or as otherwise recommended by metal producer for required finish.

2.5 FABRICATION

- A. Fabricate frames, including integral sills, to fit in openings of sizes indicated, with allowances made for fabrication and installation tolerances, adjoining material tolerances, and perimeter sealant joints.
- B. Join frame members to each other and to fixed louver blades with fillet welds concealed from view, threaded fasteners, or both, as standard with louver manufacturer unless otherwise indicated or size of louver assembly makes bolted connections between frame members necessary.

PART 3 - EXECUTION

3.1 INSTALLATION

- A. Locate and place louvers level, plumb, and at indicated alignment with adjacent work.

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- B. Use concealed anchorages where possible. Provide brass or lead washers fitted to screws where required to protect metal surfaces and to make a weathertight connection.
- C. Provide perimeter reveals and openings of uniform width for sealants and joint fillers, as indicated.
- D. Protect unpainted galvanized and nonferrous-metal surfaces that are in contact with concrete, masonry, or dissimilar metals from corrosion and galvanic action by applying a heavy coating of bituminous paint or by separating surfaces with waterproof gaskets or nonmetallic flashing.

3.2 ADJUSTING

- A. Restore louvers damaged during installation and construction so no evidence remains of corrective work. If results of restoration are unsuccessful, as determined by Architect, remove damaged units and replace with new units.

END OF SECTION 089119

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SECTION 223500 - DOMESTIC-WATER HEAT EXCHANGERS

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

- A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division 01 Specification Sections, apply to this Section.

1.2 SUMMARY

- A. Section Includes:
 - 1. Shell-and-tube, heating-fluid-in-coil, domestic-water heat exchangers.

1.3 ACTION SUBMITTALS

- A. Product Data: For each type and size of domestic-water heat exchanger indicated. Include rated capacities, operating characteristics, electrical characteristics, and furnished specialties and accessories.
- B. Shop Drawings:
 - 1. Wiring Diagrams: For power, signal, and control wiring.

1.4 INFORMATIONAL SUBMITTALS

- A. Product Certificates: For each type of shell-and-tube, domestic-water heat exchanger, from manufacturer.
- B. Source quality-control reports.
- C. Field quality-control reports.
- D. Warranty: Sample of special warranty.

1.5 CLOSEOUT SUBMITTALS

- A. Operation and Maintenance Data: For domestic-water heat exchangers to include in emergency, operation, and maintenance manuals.

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1.6 QUALITY ASSURANCE

- A. Electrical Components, Devices, and Accessories: Listed and labeled as defined in NFPA 70, by a qualified testing agency, and marked for intended location and application.
- B. ASHRAE/IESNA 90.1 Compliance: Applicable requirements in ASHRAE/IESNA 90.1.
- C. ASME Compliance: Where ASME-code construction is indicated, fabricate and label heat-exchanger storage tanks to comply with ASME Boiler and Pressure Vessel Code: Section VIII, Division 1.
- D. NSF Compliance: Fabricate and label equipment components that will be in contact with potable water to comply with NSF 61, "Drinking Water System Components - Health Effects."

1.7 COORDINATION

- A. Coordinate sizes and locations of concrete bases with actual equipment provided.

1.8 WARRANTY

- A. Special Warranty: Manufacturer's standard form in which manufacturer agrees to repair or replace components of domestic-water heat exchangers that fail in materials or workmanship within specified warranty period.
 - 1. Failures include, but are not limited to, the following:
 - a. Structural failures including heat exchanger, storage tank, and supports.
 - b. Faulty operation of controls.
 - c. Deterioration of metals, metal finishes, and other materials beyond normal use.
 - 2. Warranty Periods: From date of Substantial Completion.
 - a. The heater shall carry the following manufacture's warranty from date of shipment for domestic water service*:
 - 1) Pressure vessel – The pressure vessel consisting of shell and top head shall carry a non-prorated 20-year guarantee against leakage due to internal corrosion.
 - 2) All other components – Shall carry an 18 month guarantee against failure due to manufacturing or material defect.

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PART 2 - PRODUCTS

2.1 SHELL-AND-TUBE, DOMESTIC-WATER HEAT EXCHANGERS

A. Shell-and-Tube, Heating-Fluid-in-Coil, Domestic-Water Heat Exchangers:

1. Manufacturers: Subject to compliance with requirements, provide products by one of the following:
 - a. [AERCO International, Inc.](#)
 - b. Approved equal.
2. Design & Construction: Each heater shall be of the vertical, U-tube, Semi-instantaneous design, having service water in the shell and steam in the tubes. The ratio of hot water volume to steam volume shall be a minimum of 5:1. The U-tube shall be atmospherically vented with clearly labeled, visible leak detection port.
3. The water vessel shall be designed to allow no greater than 5 FPS average water velocity when traveling through the shell at design flow conditions to ensure no heat exchanger erosion. Total domestic water pressure drop through the heater shall not exceed 7 PSI at design flow. The tube bundle shall be constructed of double wall tubing and utilize Teflon baffles spaced 2 ½” apart to maximize performance.
4. The water pressure vessel shall be designed and manufactured in accordance with ASME section VIII, Div. 1 for not less than 180 PSIG @ 250 °F working pressure and temperature. The tube bundle shall be designed and manufactured in accordance with ASME Section VIII, Div. 1 for not less than 250 PSIG @ 400 °F working pressure and temperature. The entire heat exchanger shall be UL listed as acceptable for use heating potable water in commercial installations. Any doublewall heat exchanger, which does not have an equivalent third party listing, shall not be deemed acceptable.
5. All pressure vessel and heat exchanger surfaces in contact with the domestic water shall be a non-ferrous alloy. Materials of construction shall be: 3/16” 304 stainless steel shell (schedule10), 0.049” outer wall and 0.025” inner wall copper tubes, 0.25” Naval Brass upper tubesheet, 1-1/4” carbon steel inner tubesheet, 0.25” Naval Brass lower tubesheet, and bronze top head. The outer tube shall be silver-brazed to the upper tubesheet and the inner tube shall be silver-brazed to the lower tubesheet.
6. Electronic Control System: The heater shall maintain +/- 4 °F Max temperature fluctuation from temperature setpoint under normal diversified load conditions (load fluctuations of up to 25% of water heater capacity).
 - a. The system shall consist of an electronic control valve, constant speed domestic water circulator pump, control panel enclosure housing a PID temperature controller with digital indication of shell outlet water temperature, digital over-temperature limit switch, and feed-forward and feedback temperature sensors. The limit switch shall close the control valve and open a solenoid valve to function as a secondary water relief valve in an over-temperature condition.

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- b. The system shall have the following additional characteristics:
 - 1) Controller temperature setpoint range between 50 °F to 205 °F maximum
 - 2) Configured for 120V/1 Phase/60 Hz and 220V/1 Phase/ 50 Hz.
 - 3) Easy start-up. Dial in setpoint & walk away.
- c. The electronic steam control valve shall be manufactured by water heater manufacturer and be of the balanced, pilot-operated type, having a soft seat for ANSI Class VI bubble tight shut-off and equal percentage flow characteristics. Valves shall be applied directly for specified steam pressure without the need for extraneous PRV's. The valve shall have the following performance characteristics:
 - 1) 50 to 1 Turndown.
 - 2) Electronic Actuator with Fail Closed Design-particularly on loss of power
 - 3) Time to Full Open Position: 7 seconds on 1 to 2 Inch; 9 seconds on 2 ½ to 4 inch
 - 4) Time to Full Closed Position: 7 seconds on 1 to 2 Inch; 9 seconds on 2 ½ to 4 inch, including failsafe mode.
- d. The PID temperature controller shall incorporate a feed-forward function and be password protected. The controller shall be capable of remote communications via an optional add-in board that incorporates RS-232 port or RS-485 port and utilizes the MODBUS protocol for interoperability with Building Automation Systems (BAS).
- e. Controls interface with BACnet, Lonworks, and N2 shall utilize an AERCO Communications Gateway to act as a MODBUS interface/translator between the BAS and the MODBUS port of the temperature controller. The AERCO Communications Gateway shall be comprised of a microprocessor based control utilizing the MODBUS protocol to communicate with the temperature controller. Non-volatile backup of all point mappings and programs shall be internally provided as standard. Connection between Gateway and individual water heaters shall be “daisy chain” with shielded, twisted pair, low voltage wiring for ease of installation.
- f. The following information shall be accessible locally at the controller or remotely via the communications port:
 - 1) Setpoint – can be changed remotely
 - 2) Outlet Temperature
 - 3) Over Temperature Alarm
 - 4) Control Output Signal to valve
- g. Each heater shall be supplied by the manufacturer ready to accept existing boiler water and domestic water lines, and furnished with the following accessories:
 - 1) Minimum **1-1/2 inch** thick resilient insulation having “K” value of 0.25 BTU- in/hr-ft² -°F, meeting or exceeding ANSI/ASHRAE/IES standard 90.1- 1989.
 - 2) Bronze T&P relief valve conforming to ANZI Z21.22, set at 150 PSIG/210°F

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PART 3 - EXECUTION

3.1 DOMESTIC-WATER, HEAT-EXCHANGER INSTALLATION

- A. Install domestic-water heat exchangers level and plumb, according to layout drawings, original design, and referenced standards. Maintain manufacturer's recommended clearances. Arrange units so controls and devices needing service are accessible.
 - 1. Install shutoff valves on domestic-water-supply piping to heat exchangers and on domestic-hot-water outlet piping. Comply with requirements for shutoff valves specified in Section 220523 "General-Duty Valves for Plumbing Piping."
 - 2. Install shutoff valves on heating hot-water piping to heat exchangers. Comply with requirements for shutoff valves specified in Section 230523 "General-Duty Valves for HVAC Piping."
 - 3. Install shutoff valves on steam and condensate piping to heat exchangers. Comply with requirements for shutoff valves specified in Section 230523 "General-Duty Valves for HVAC Piping."
- B. Install temperature and pressure relief valves in top portion of storage-tank shells of domestic-water heat exchangers with domestic-water storage. Use relief valves with sensing elements that extend into shells. Extend relief-valve outlet, with drain piping same as domestic-water piping in continuous downward pitch, and discharge by positive air gap onto closest floor drain.
- C. Install combination temperature-and-pressure relief valves in water piping for domestic-water heat exchangers without storage. Extend relief-valve outlet, with drain piping same as domestic-water piping in continuous downward pitch, and discharge by positive air gap onto closest floor drain.
- D. Install heat-exchanger drain piping as indirect waste to spill by positive air gap into open drains or over floor drains. Install hose-end drain valves at low points in water piping for domestic-water heat exchangers that do not have tank drains. Comply with requirements for hose-end drain valves specified in Section 221119 "Domestic Water Piping Specialties."
- E. Install thermometer on each domestic-water, heat-exchanger, inlet and outlet piping, and install thermometer on each domestic-water, heat-exchanger, heating-fluid inlet and outlet piping. Comply with requirements for thermometers specified in Section 220519 "Meters and Gages for Plumbing Piping."
- F. Install pressure gages on domestic-water, heat-exchanger, heating-fluid piping. Comply with requirements for pressure gages specified in Section 220519 "Meters and Gages for Plumbing Piping."
- G. Fill domestic-water heat exchangers with water.
- H. Charge domestic-water compression tanks with air.

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3.2 CONNECTIONS

- A. Comply with requirements for piping specified in Section 221116 "Domestic Water Piping."
- B. Comply with requirements for steam and condensate piping specified in Section 232213 "Steam and Condensate Heating Piping."
- C. Drawings indicate general arrangement of piping, fittings, and specialties.
- D. Where installing piping adjacent to domestic-water heat exchangers, allow space for service and maintenance of heat exchangers. Arrange piping for easy removal of domestic-water heat exchangers.

3.3 IDENTIFICATION

- A. Identify system components. Comply with requirements for identification specified in Section 220553 "Identification for Plumbing Piping and Equipment."

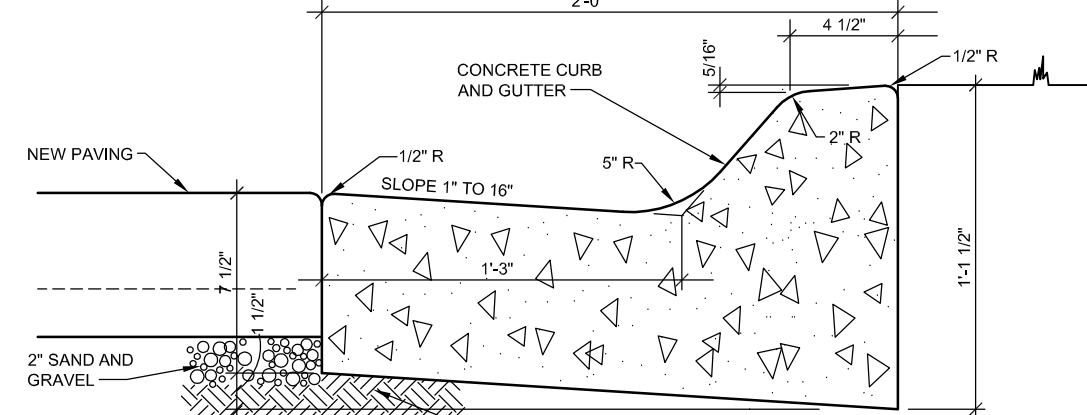
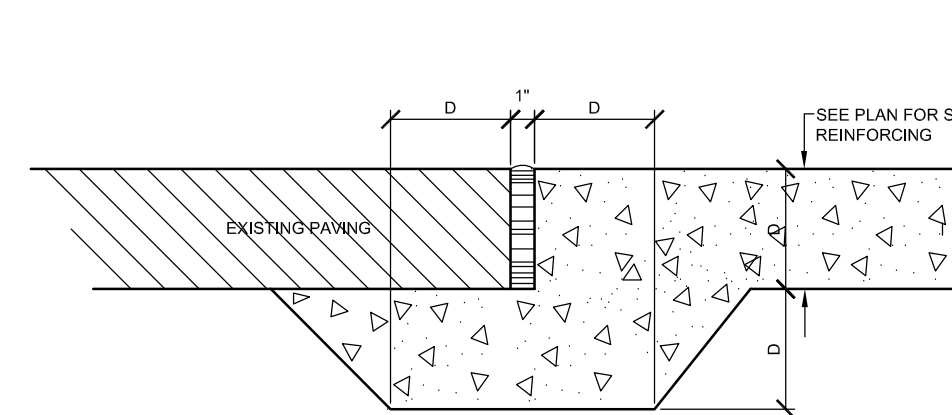
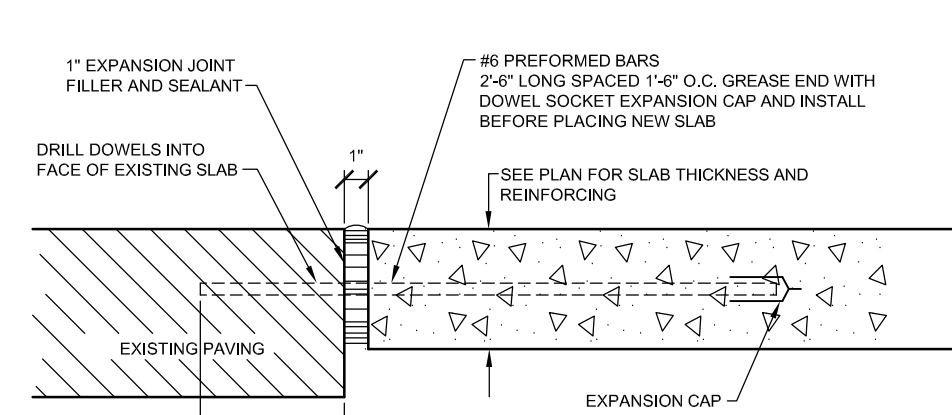
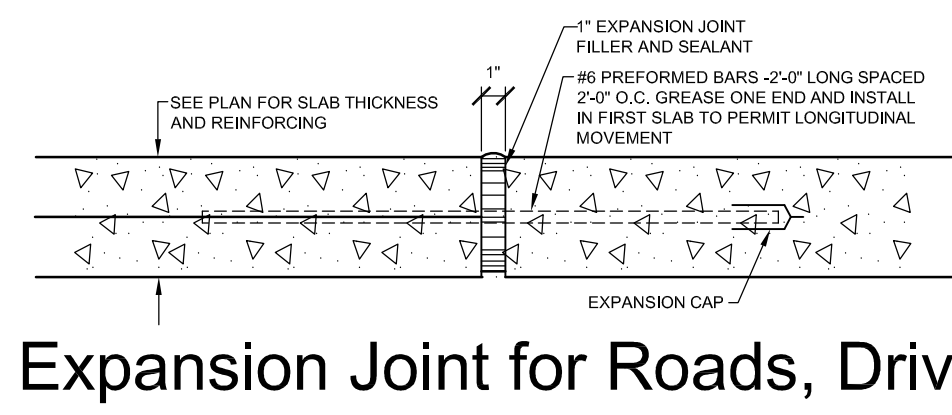
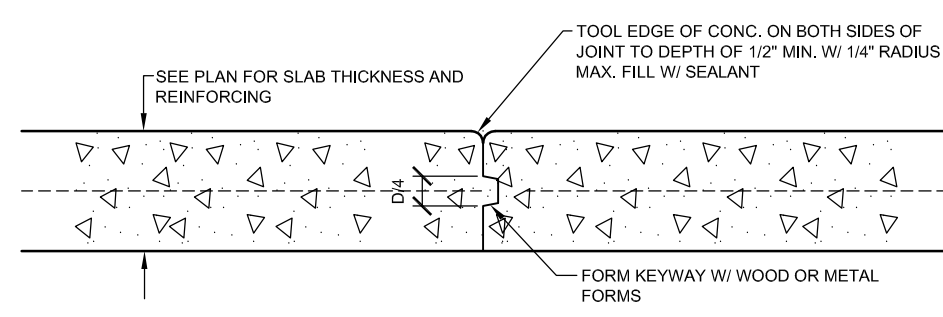
3.4 FIELD QUALITY CONTROL

- A. Perform tests and inspections.
 - 1. Leak Test: After installation, charge system and test for leaks. Repair leaks and retest until no leaks exist.
 - 2. Operational Test: After electrical circuitry has been energized, start units to confirm proper operation.
 - 3. Test and adjust controls and safeties. Replace damaged and malfunctioning controls and equipment.
- B. Domestic-water heat exchangers will be considered defective if they do not pass tests and inspections. Comply with requirements in Section 014000 "Quality Requirements" for retesting and re-inspecting requirements and Section 017300 "Execution" for requirements for correcting the Work.
- C. Prepare test and inspection reports.

3.5 DEMONSTRATION

- A. Train Owner's maintenance personnel to adjust, operate, and maintain domestic-water heat exchangers.

END OF SECTION 223500



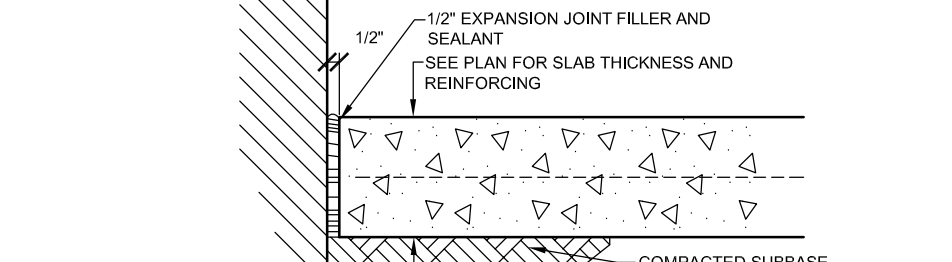
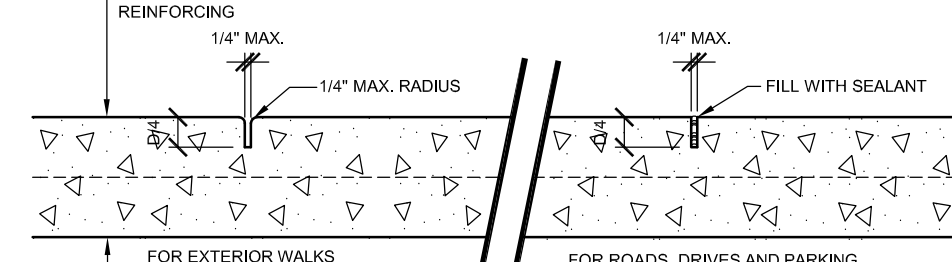
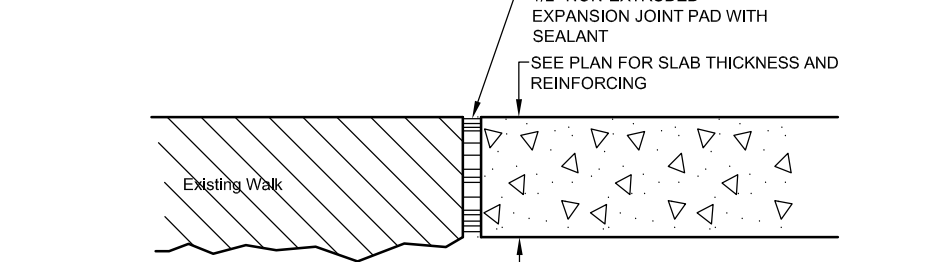
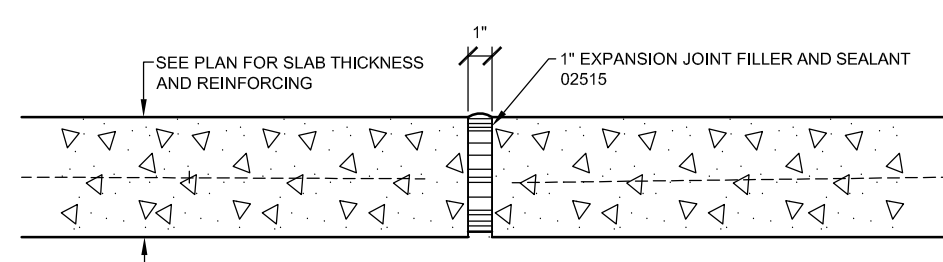
1 Construction Jt. - Roads, Drives & Parking
Scale: 1 1/2" = 1'-0"

2 Parking, Curbs and Gutters
Scale: 1 1/2" = 1'-0"

3 Expansion Joint @ Existing Paving
Scale: 1 1/2" = 1'-0"

4 Expansion Joint @ Existing Paving
Scale: 1 1/2" = 1'-0"

5 Curb and Gutter Detail
Scale: 1 1/2" = 1'-0"

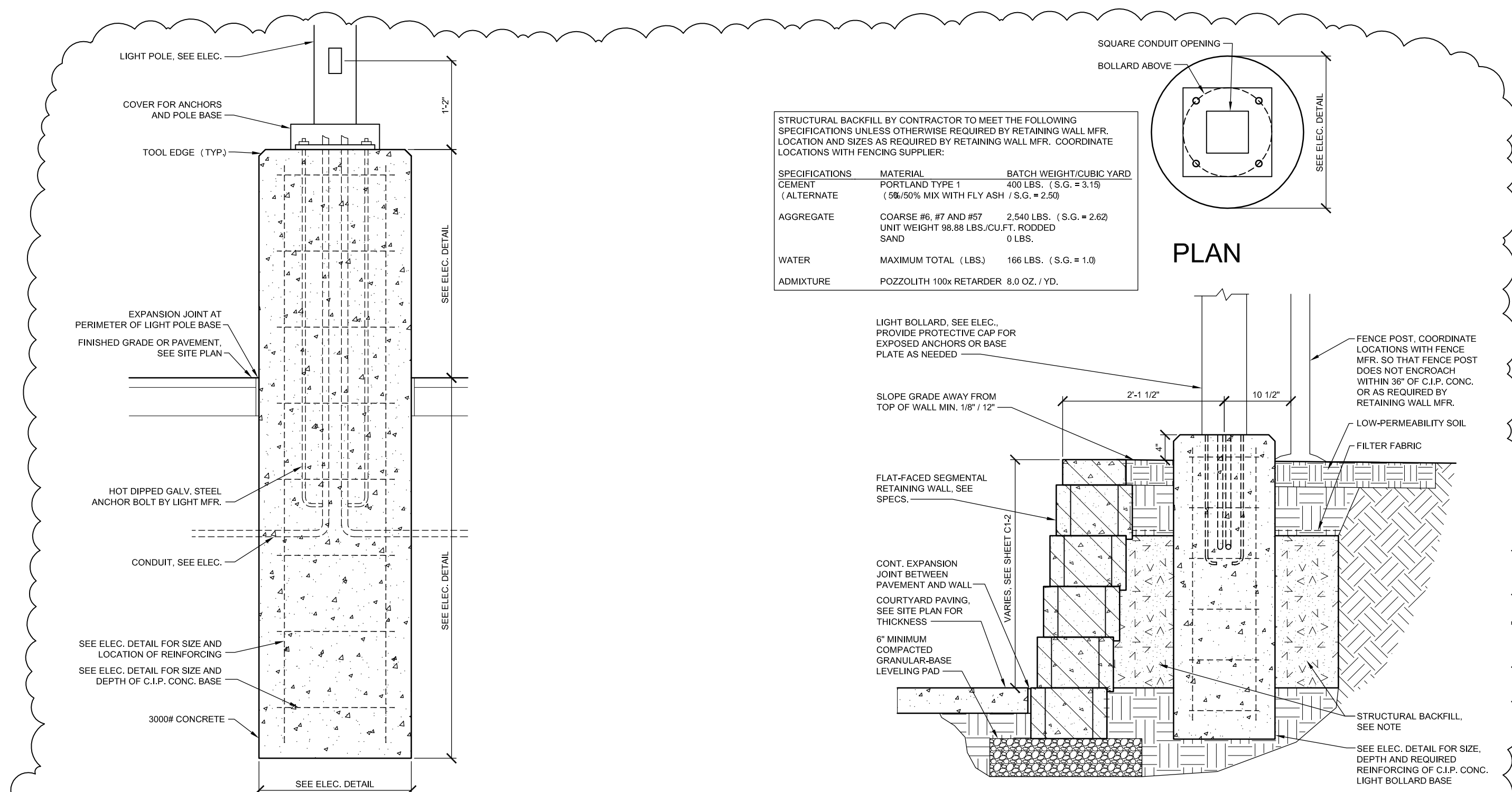


6 Sidewalk Expansion Joint
Scale: 1 1/2" = 1'-0"

7 Expansion Joint @ Existing Sidewalk
Scale: 1 1/2" = 1'-0"

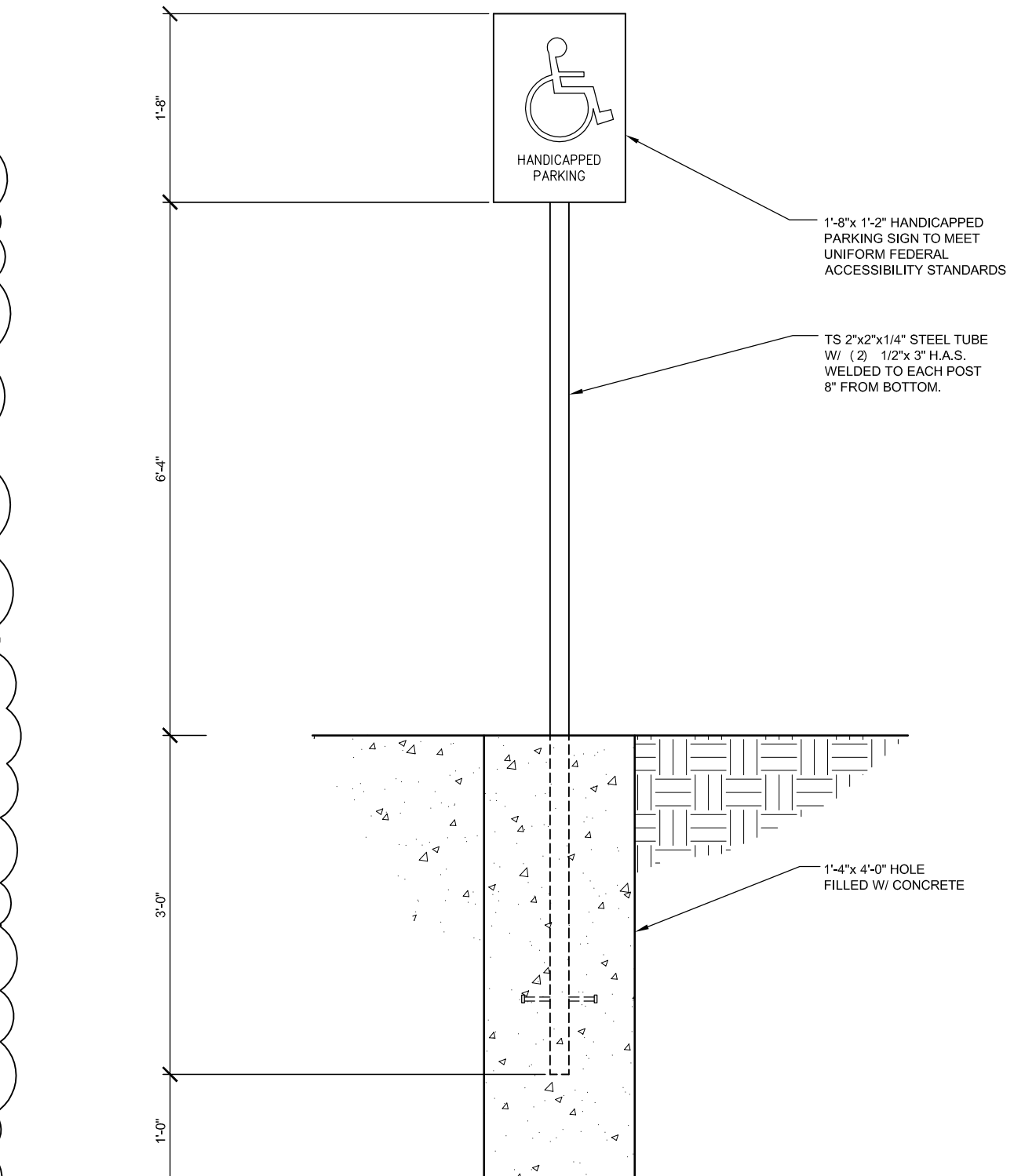
8 Handformed Joints
Scale: 1 1/2" = 1'-0"

9 Expansion Joint @ Building
Scale: 1 1/2" = 1'-0"

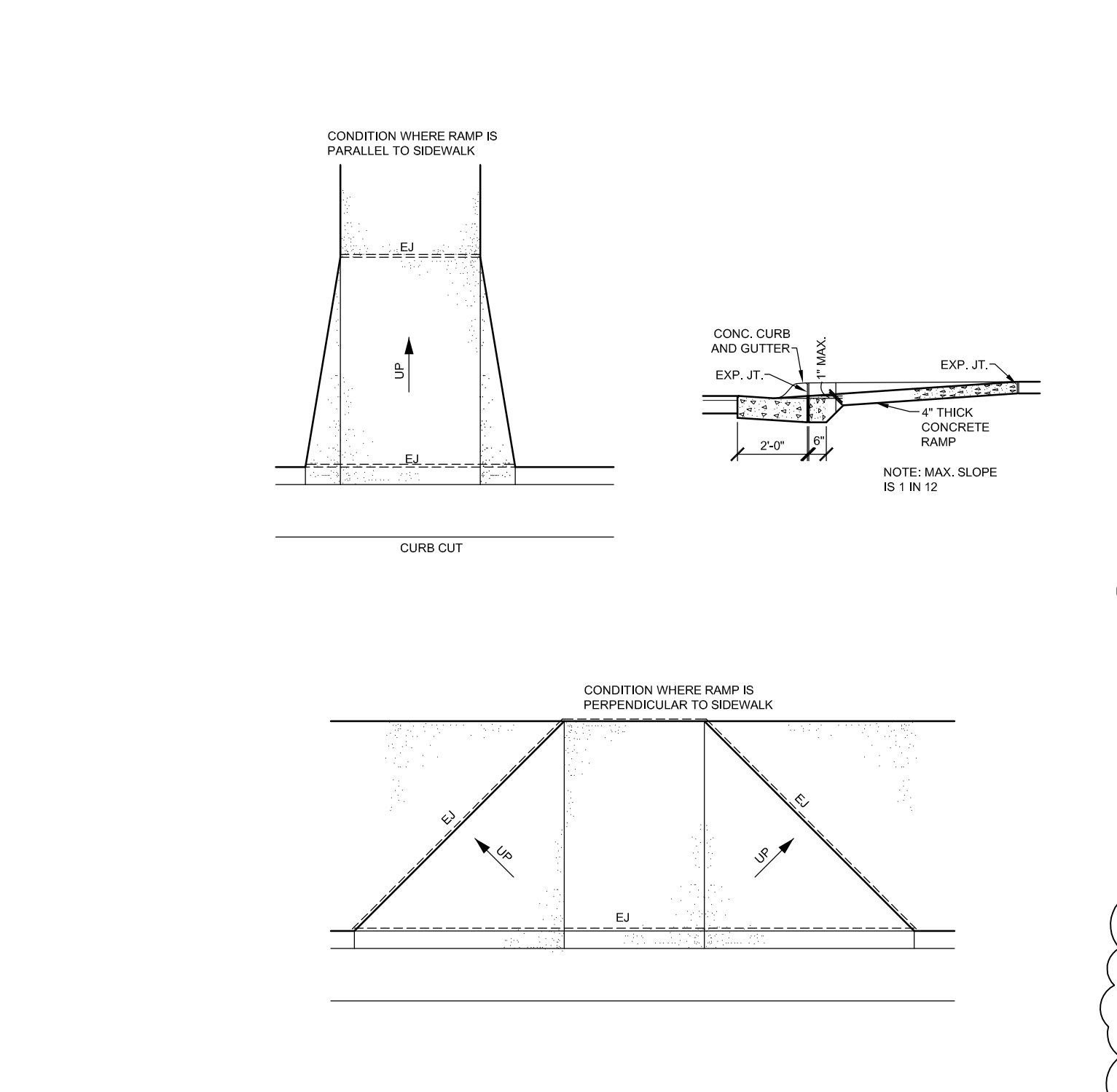


11 Light Pole Base
Scale: 3/4" = 1'-0"

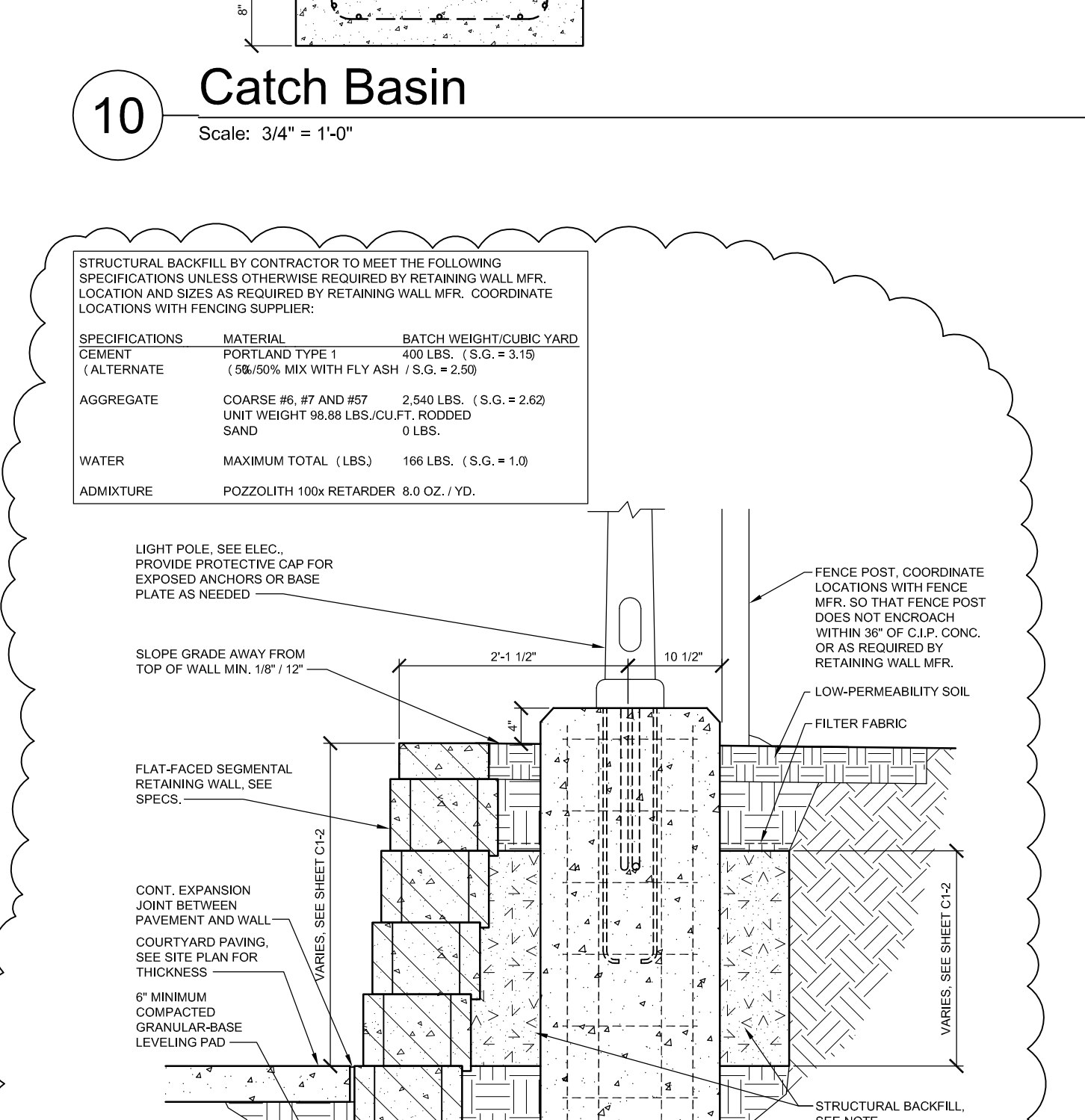
12 Light Bollard Base
Scale: 3/4" = 1'-0"



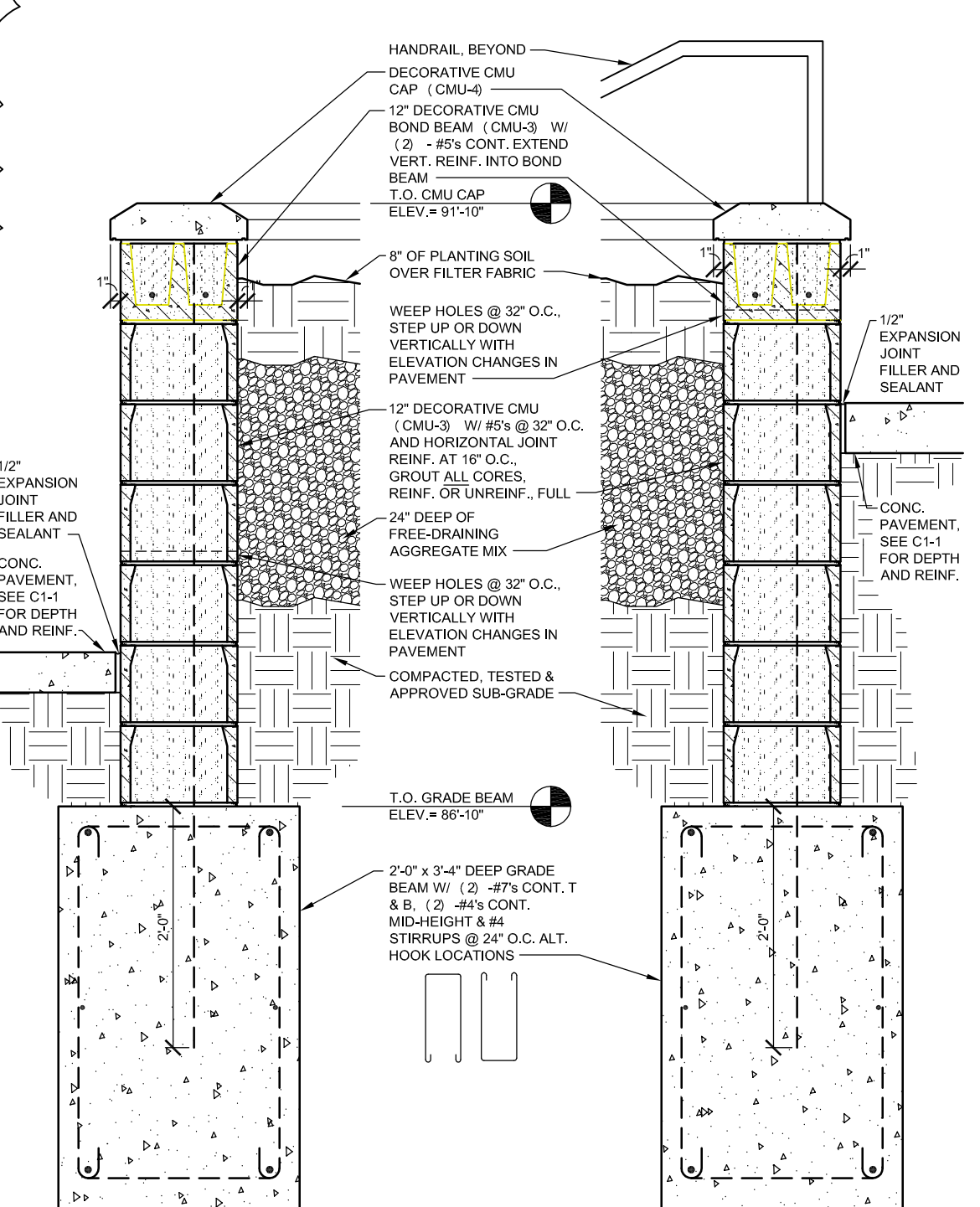
13 ADA Parking Sign
Scale: 3/4" = 1'-0"



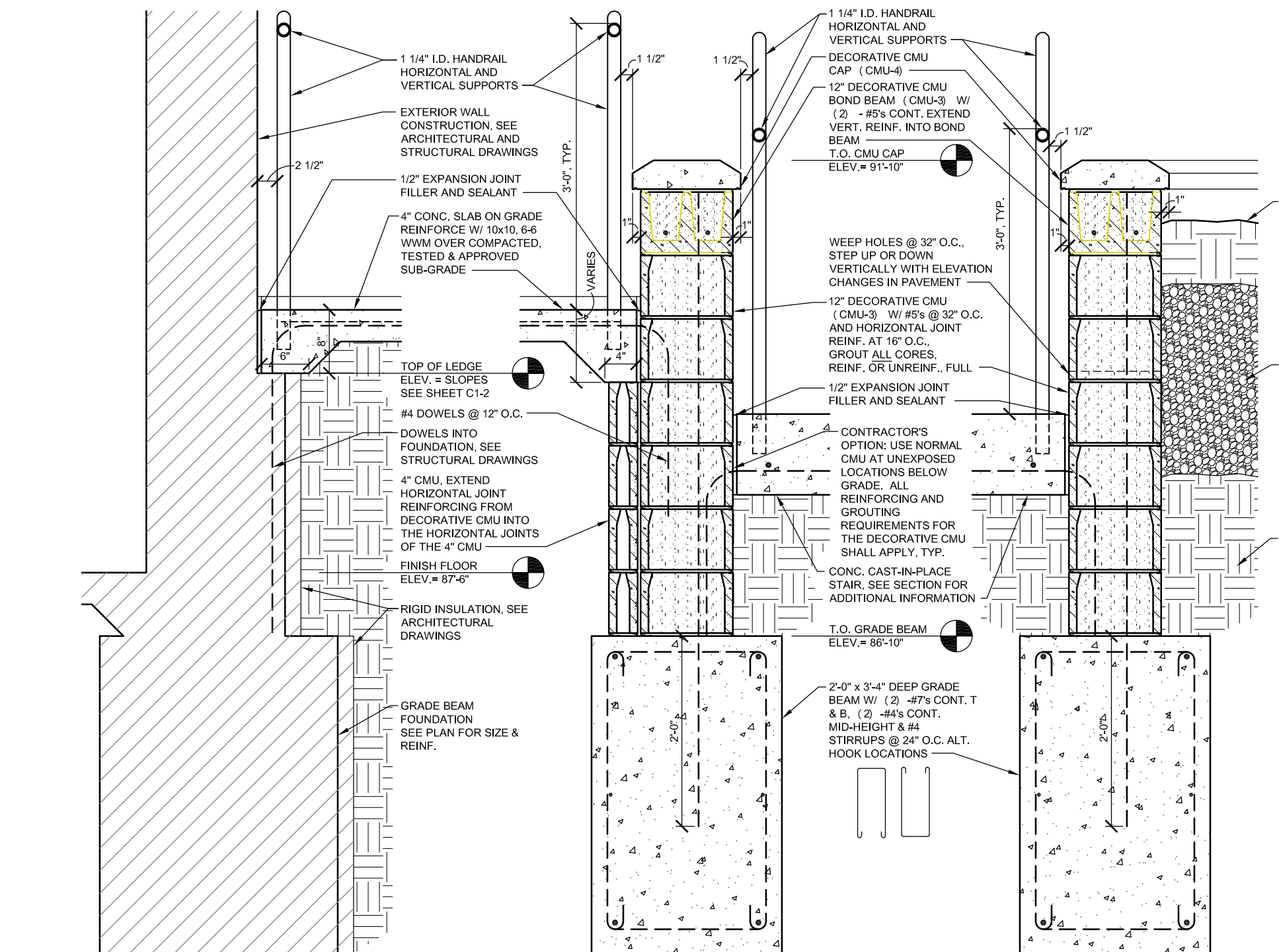
14 Wheelchair Ramp Details
Scale: 1/4" = 1'-0"



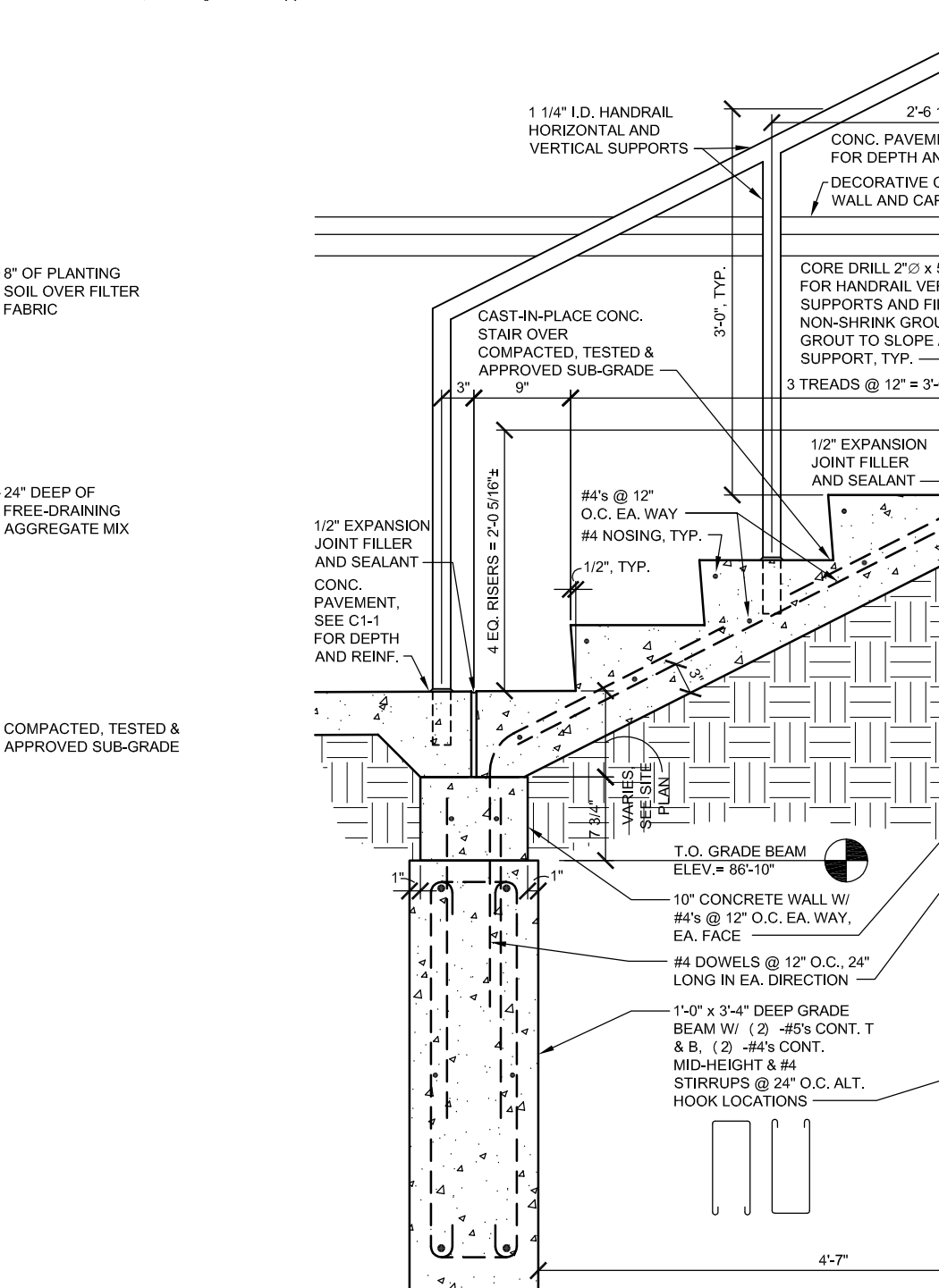
10 Catch Basin
Scale: 3/4" = 1'-0"



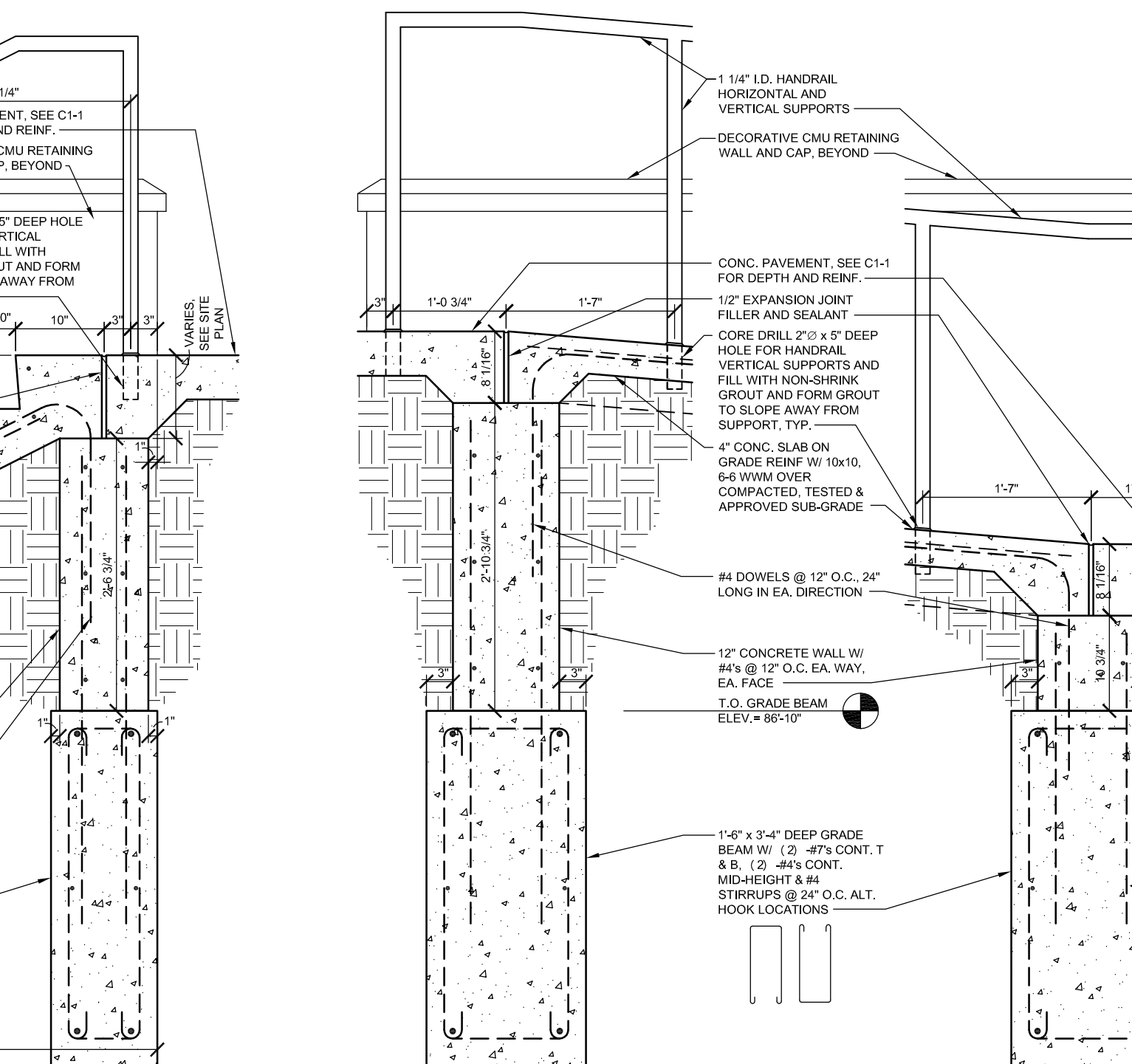
17 CMU Retaining Wall Detail
Scale: 3/4" = 1'-0"



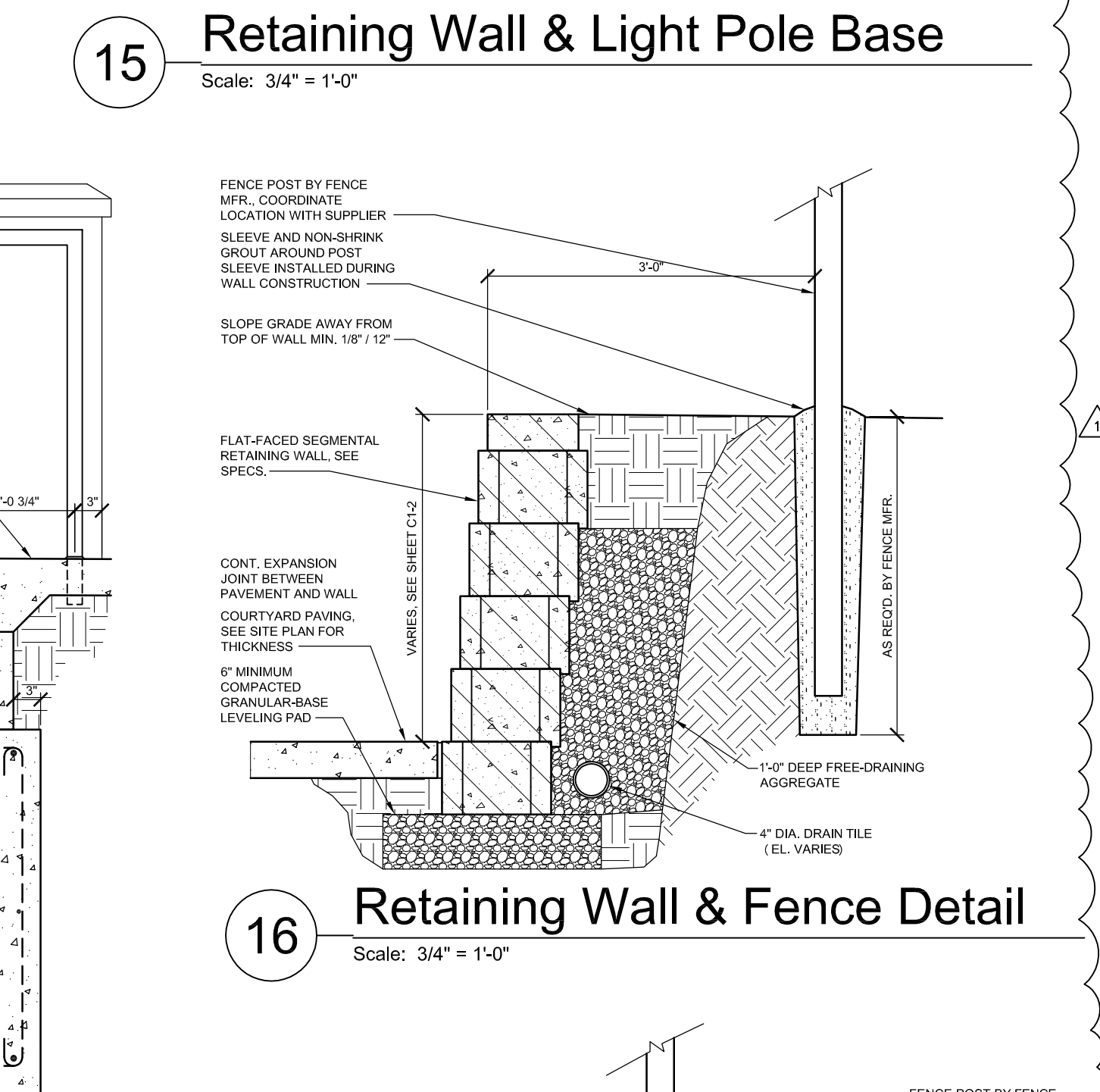
18 CMU, Ramp, Stair and Retaining Wall Detail
Scale: 3/4" = 1'-0"



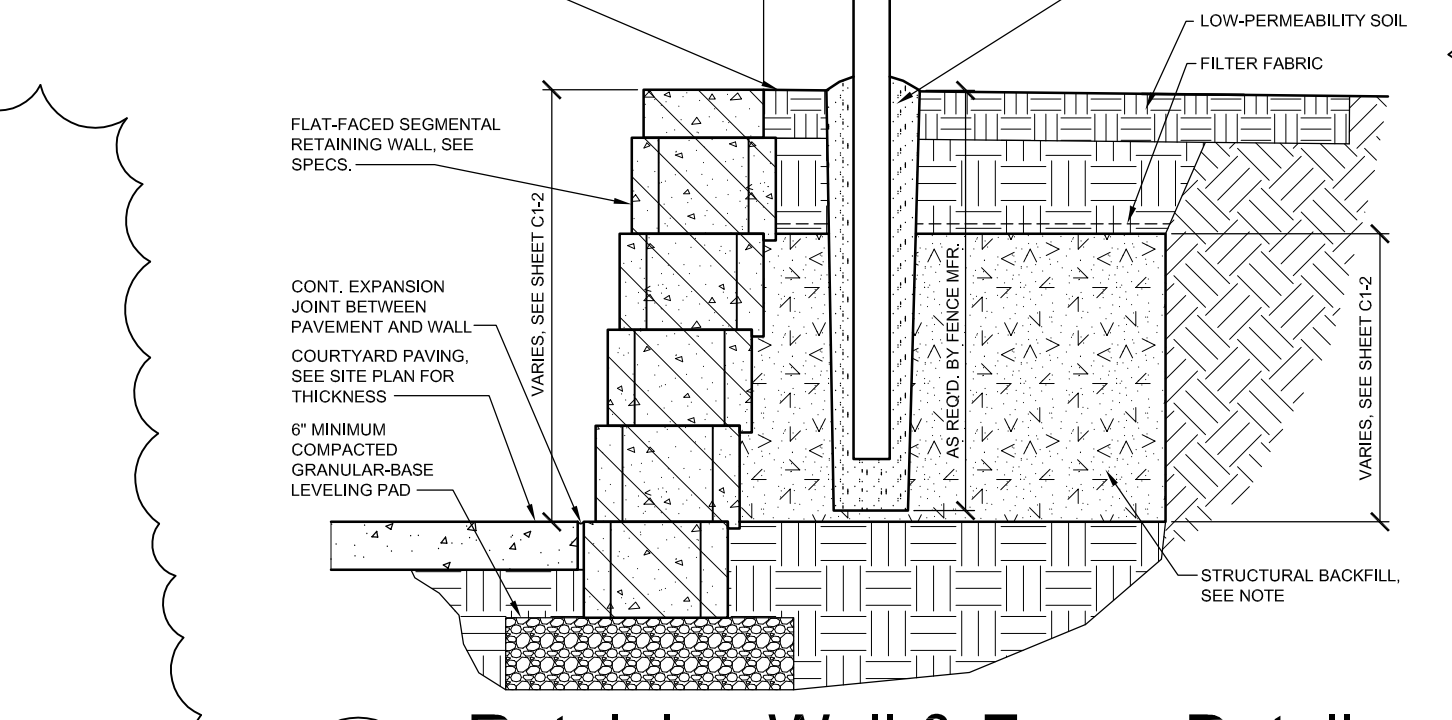
19 Stair Detail
Scale: 3/4" = 1'-0"



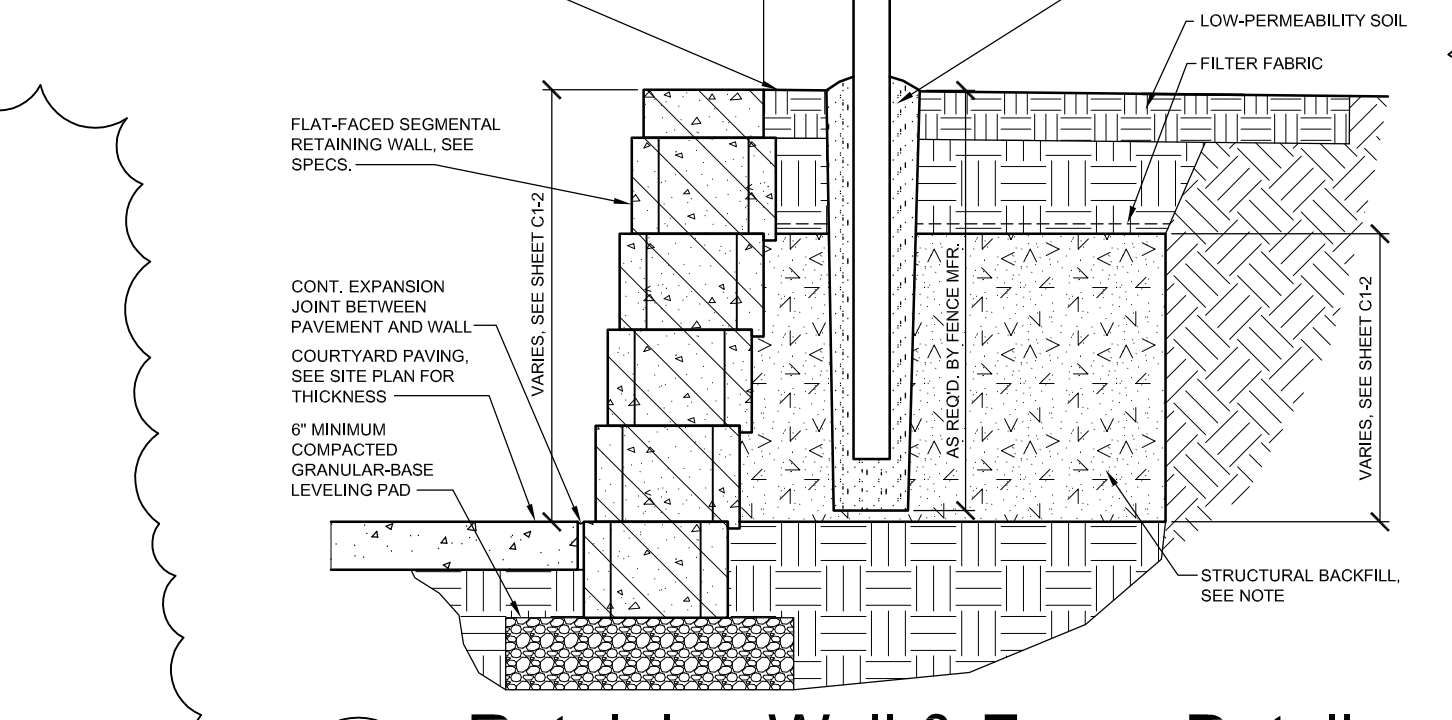
20 Ramp Detail
Scale: 3/4" = 1'-0"



15 Retaining Wall & Light Pole Base
Scale: 3/4" = 1'-0"

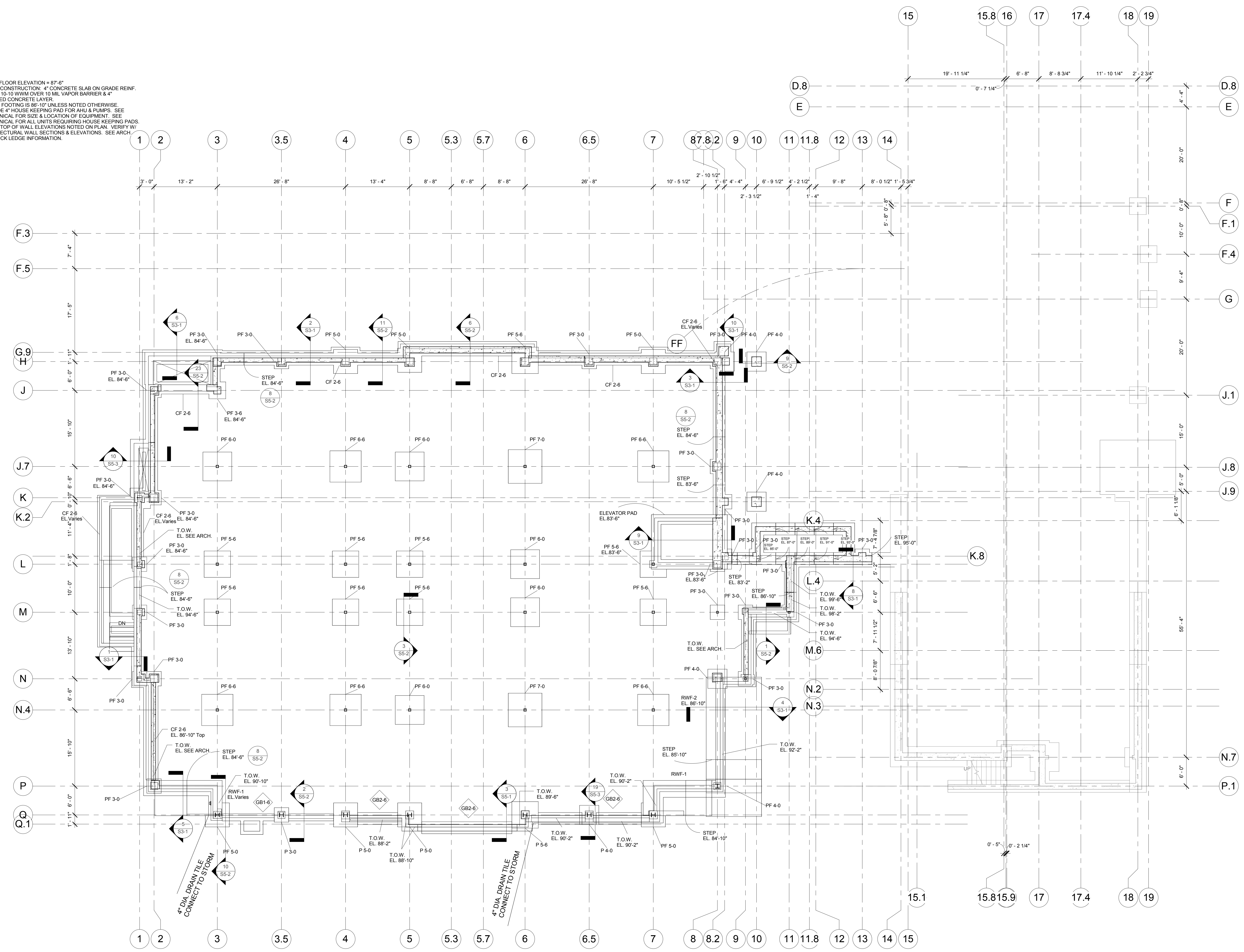


16 Retaining Wall & Fence Detail
Scale: 3/4" = 1'-0"



21 Retaining Wall & Fence Detail
Scale: 3/4" = 1'-0"

- NOTES:
1. FINISH FLOOR ELEVATION = 87'-6"
 2. FLOOR CONSTRUCTION: 4" CONCRETE SLAB ON GRADE REINF. W/ 6X8, 10-10 WWM OVER 10 MIL VAPOR BARRIER & 4" CRUSHED CONCRETE LAYER.
 3. TOP OF FOOTING IS 86'-10" UNLESS NOTED OTHERWISE.
 4. PROVIDE 4" HOUSE KEEPING PAD FOR AHU & PUMPS. SEE MECHANICAL FOR SIZE & LOCATION OF EQUIPMENT. SEE MECHANICAL FOR ALL UNITS REQUIRING HOUSE KEEPING PADS.
 5. (T.O.W.) TOP OF WALL ELEVATIONS NOTED ON PLAN. VERIFY W/ ARCHITECTURAL WALL SECTIONS & ELEVATIONS. SEE ARCH. FOR BRICK LEDGE INFORMATION.



1 Foundation Plan
1/8" = 1'-0"



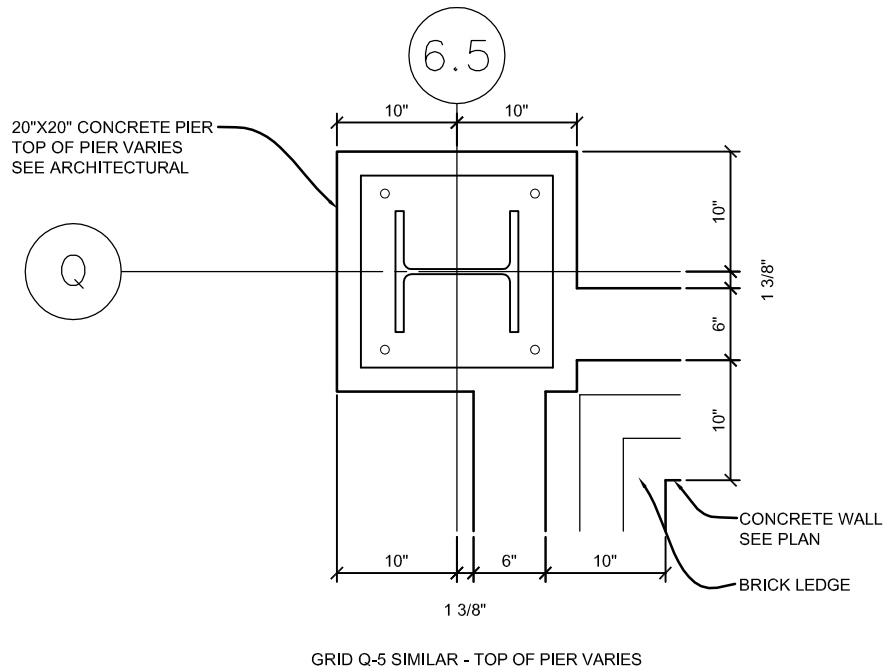
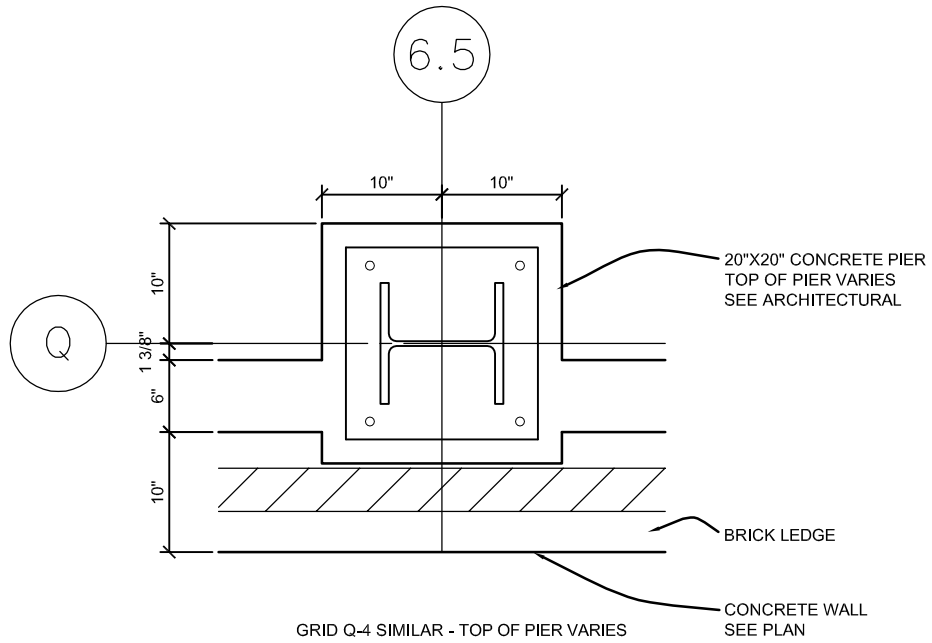
CLIENT INFORMATION
Bryan Health Medical Center West

PROJECT INFORMATION
Independence Center
2300 S. 16th
Lincoln, NE 68502

JOB #	11-0101
ISSUE DATE	03/09/2013
ID	Date Description
Checked by	Designer
Drawn by	PLH
Design	Davis Design Alliance

SHEET TITLE
Foundation Plan

SHEET NUMBER
S1-1



Lincoln
1221 N Street, Suite 600
Lincoln NE 68508
Phone 402-476-9700
Fax 402-476-9722

Vermillion
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Vermillion SD 57069
Phone 605-624-1081

Client Information

**Bryan Health
West Medical
Center**

Project Information

**Independence Center
Lincoln, Nebraska**

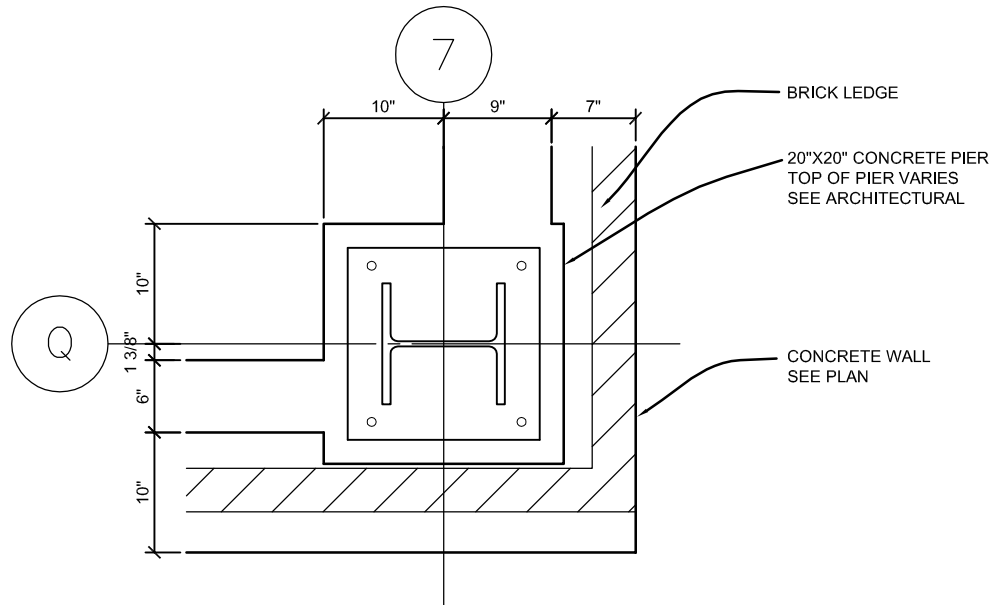
Issue Date	03-20-2013
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CADD file:	S5-1

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Drawing Title
Revised Additional Per Details

From Sheet: S5-1 for CA use:

Drawing #
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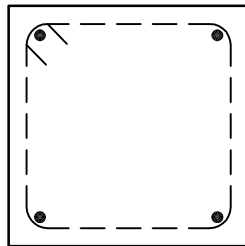
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Job #	11-0101
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CADD file:	S5-1

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Drawing Title	Additional Pier Details	
---------------	-------------------------	--

From Sheet:	S5-1	for CA use:
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20"X20" CONCRETE PIER
 4-#8'S VERT. / #4 TIES @ 12" O.C.
 TWO TIES @ TOP



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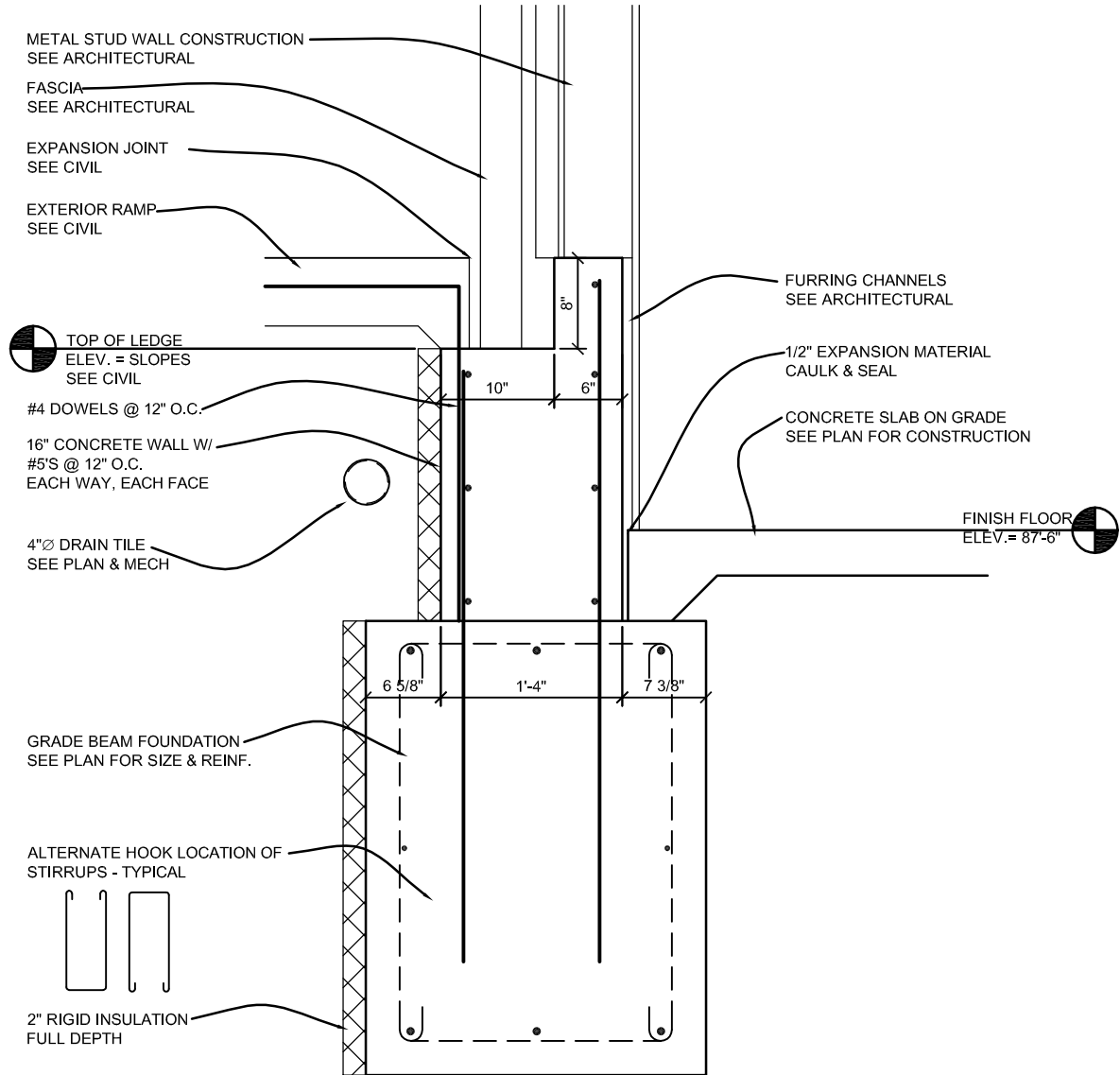
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CADD file:	S5-1

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Drawing Title	Additional Pier Reinforcing	
---------------	-----------------------------	--

From Sheet:	S5-1	for CA use:
Drawing #	2.3	



3 Grade Beam Detail

Scale: 3/4"=1'-0"

 <p>DAVIS DESIGN ARCHITECTURE ENGINEERING INTERIOR DESIGN</p>	<p>Lincoln 1221 N Street, Suite 600 Lincoln NE 68508 Phone 402-476-9700 Fax 402-476-9722</p>	<p>Client Information Bryan Health West Medical Center</p>	<p>Issue Date 03-20-2013 Job # 11-0101 Drawn by: ... CADD file: S5-1 COPYRIGHT © DAVIS DESIGN ALL RIGHTS RESERVED</p>
	<p>Vermillion 15 East Main, Suite 201 Vermillion SD 57069 Phone 605-624-1081</p>	<p>Project Information Independence Center Lincoln, Nebraska</p>	<p>Drawing Title Grade Beam Detail</p>
		<p>From Sheet: S5-1 for CA use:</p>	
		<p>Drawing # 3</p>	


FOUNDATION REINF. SCHEDULE

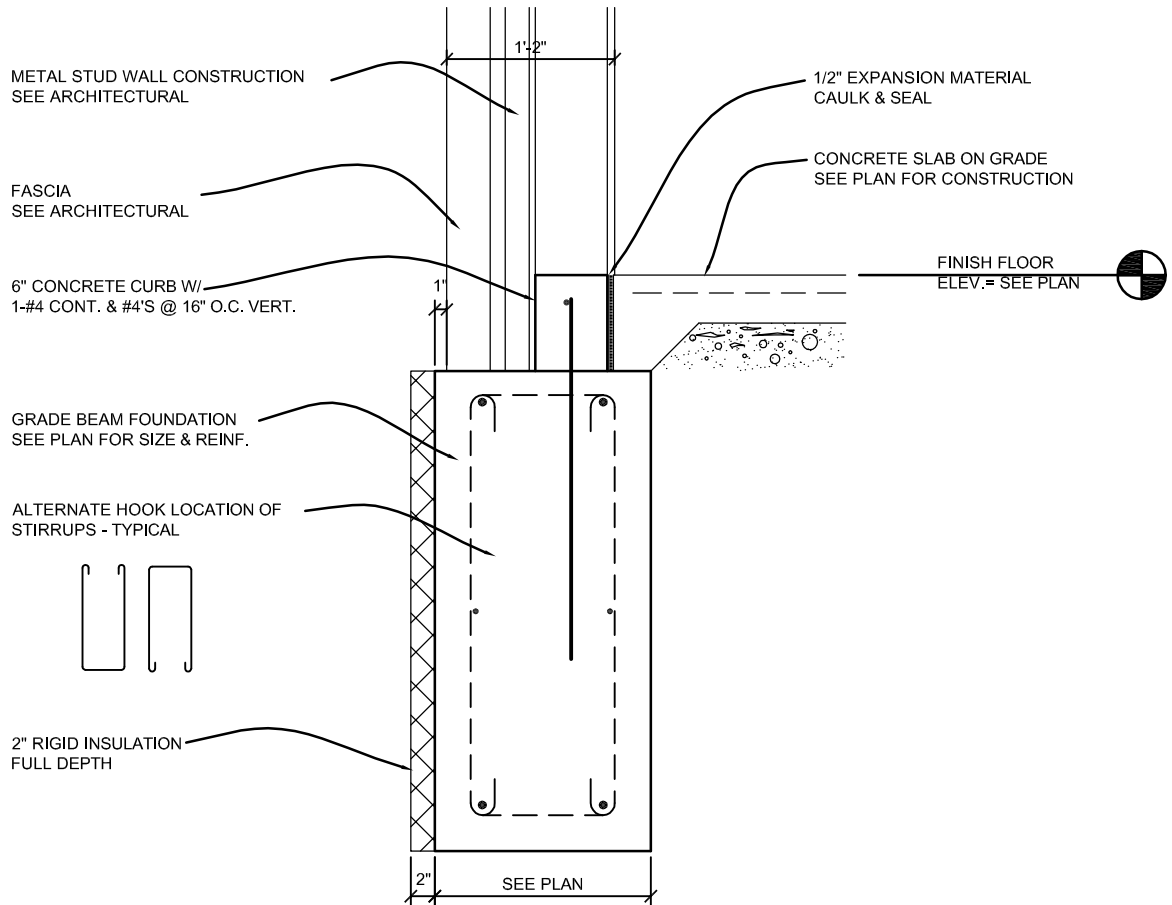
GRADE BEAMS

MARK	SIZE	REINFORCING			REMARKS
		CONTINUOUS	TRANSVERSE	VERTICALS	
GB1-6	1'-6"x3'-4" Deep	2-#7's T&B 2-#4's mid-ht.	---	#4 STIRRUPS @ 24" O.C.	
GB2-0	2'-0"x3'-4" Deep	2-#7's T&B 2-#4's mid-ht.	---	#4 STIRRUPS @ 24" O.C.	
GB2-6	2'-6"x3'-4" Deep	3-#7's T&B 2-#4's mid-ht.	---	#4 STIRRUPS @ 24" O.C.	


CONTINUOUS FOOTINGS

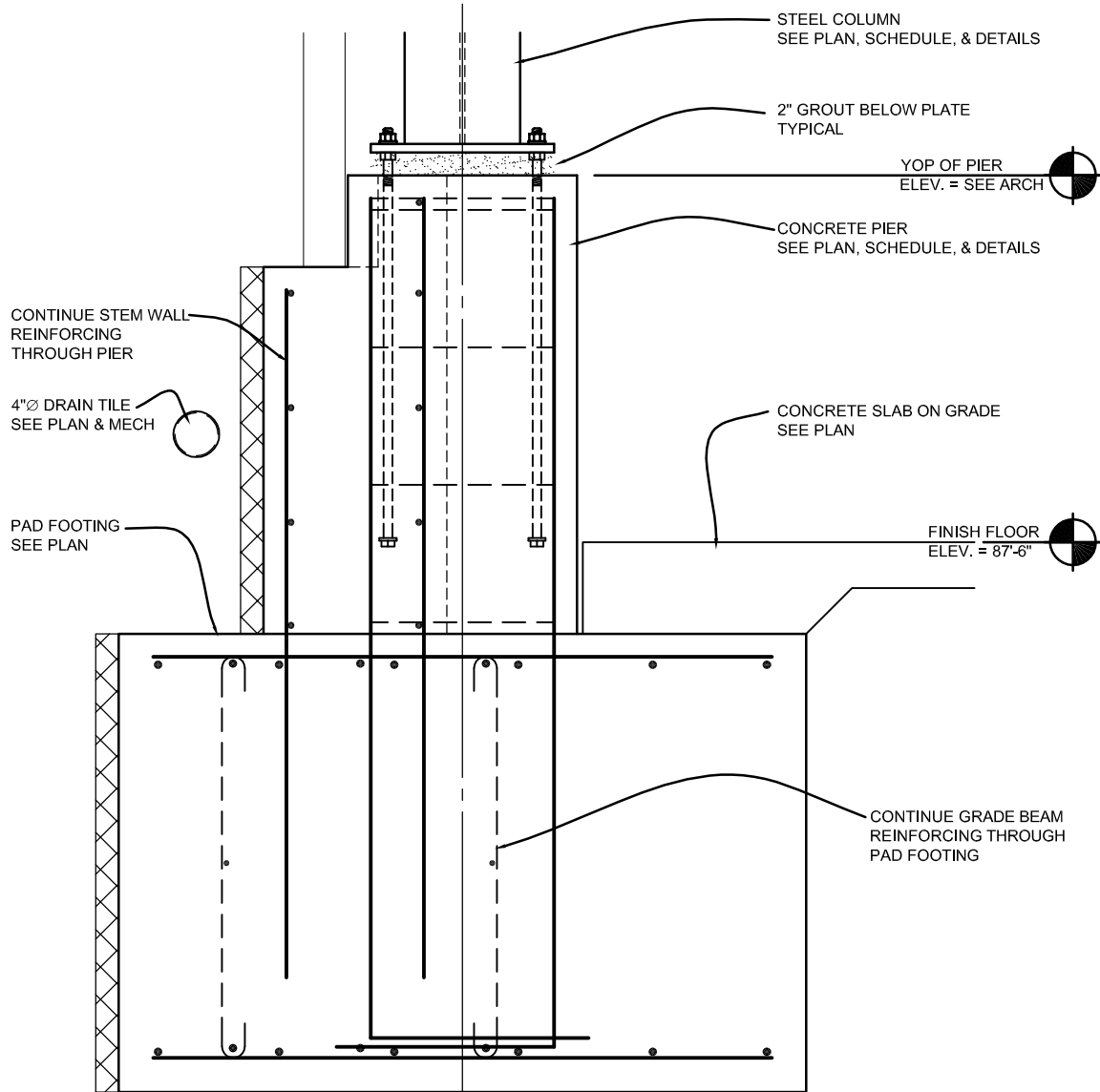
MARK	SIZE	REINFORCING			REMARKS
		CONTINUOUS	TRANSVERSE	VERTICALS	
CF2-6	2'-6"x1'-0" Deep	3-#6's	#4's @ 16" o.c.	---	

 <p style="text-align: center;">Lincoln 1221 N Street, Suite 600 Lincoln NE 68508 Phone 402-476-9700 Fax 402-476-9722</p> <p style="text-align: center;">Vermillion 15 East Main, Suite 201 Vermillion SD 57069 Phone 605-624-1081</p>	<p>Client Information</p> <h2 style="text-align: center;">Bryan Health West Medical Center</h2>	<p>Issue Date: 03-20-2013</p> <p>Job #: 11-0101</p> <p>Drawn by: ...</p> <p>CADD file: S5-1</p>	<p style="font-size: small;">COPYRIGHT © DAVIS DESIGN ALL RIGHTS RESERVED</p>	
	<p>Drawing Title</p> <h3 style="text-align: center;">Revised Foundation Reinforcing Schedule</h3>		<p>From Sheet: S5-1 for CA use:</p>	
	<p>Project Information</p> <h3 style="text-align: center;">Independence Center Lincoln, Nebraska</h3>		<p>Drawing #</p> <h2 style="text-align: center;">FRS.1</h2>	
	<p>ARCHITECTURE ENGINEERING INTERIOR DESIGN</p>			




2 **Grade Beam Detail**
Scale: 3/4"=1'-0"

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		<p>Bryan Health West Medical Center</p>	
		Issue Date	03-20-2013
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		Drawn by:	...
CADD file:	S5-2		
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		Grade Beam Detail	
From Sheet:	S5-2	for CA use:	
Drawing #	2		



19 **Column & Pier Detail**
 Scale: 3/4"=1'-0"

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	<p>Vermillion 15 East Main, Suite 201 Vermillion SD 57069 Phone 605-624-1081</p>	<p>Project Information Independence Center Lincoln, Nebraska</p>	<p>Drawing Title Pad & Pier Detail</p>

02 - Joist Brg.						02 - Joist Brg.
114' - 7" 1.5 - Mech. Mezz.						114' - 7" 1.5 - Mech. Mezz.
110' - 6"						110' - 6"
01 - First Level	W10X60	W10X60	W10X60	W10X60	W10X60	01 - First Level
101' - 6"						101' - 6"
00 - Basement Level	20 x 20	20 x 20	20 x 20	20 x 20	20 x 20	00 - Basement Level
87' - 6"						87' - 6"
Column Locations	Q-4	Q-5	Q-6	Q-6.5	Q-7	

○ Partial Column Schedule
1/8" = 1'-0"

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OMAHA
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Omaha NE 68157
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Issue Date:	03/19/13
Job #	11-0101
Drawn by:	ktr

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Drawing Title
Partial Column Schedule

From Sheet	for CA use:
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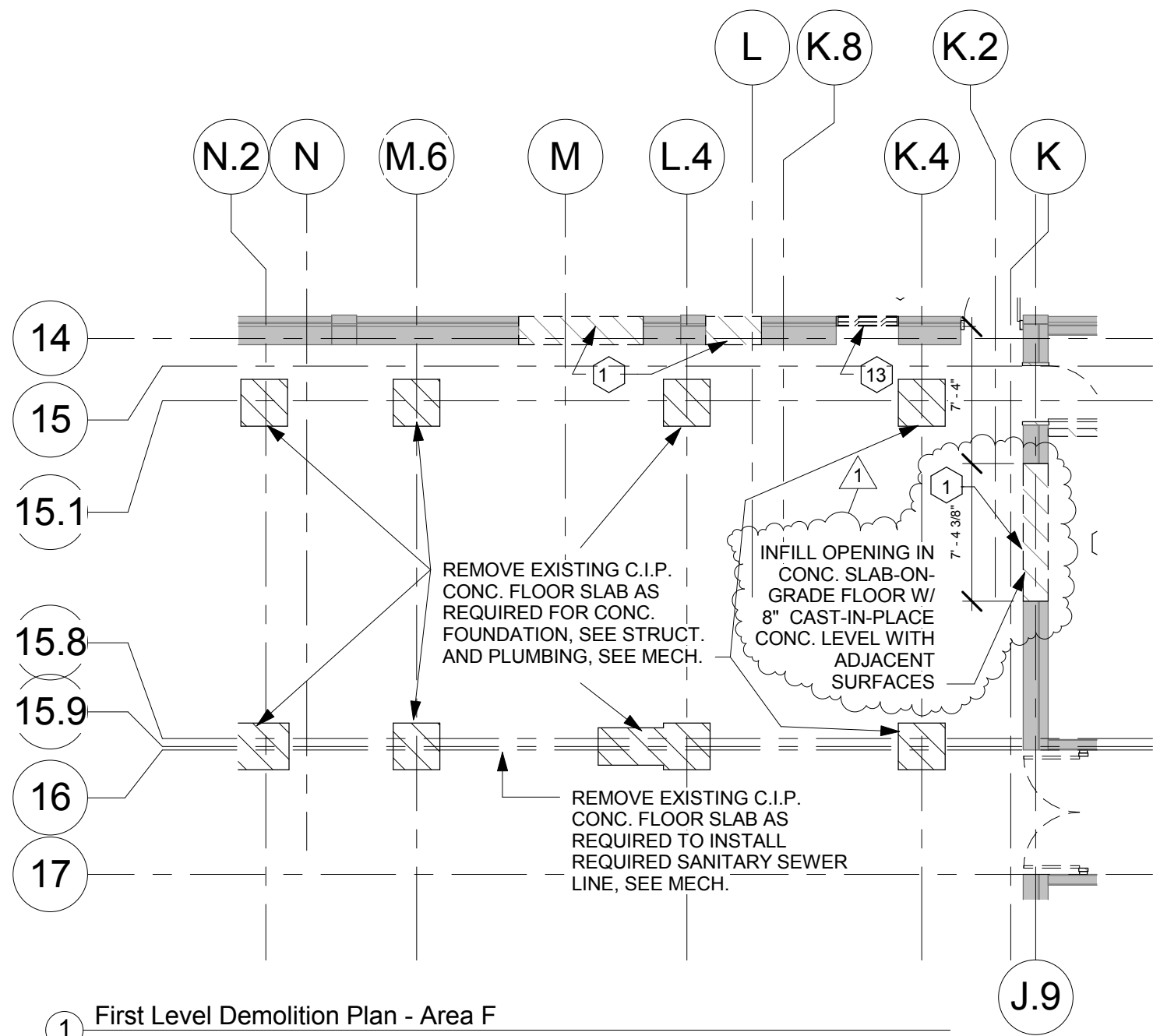
2300 S. 16th
Lincoln, NE 68502

Issue Date:	03/22/13
Job #	11-0101
Drawn by:	Author

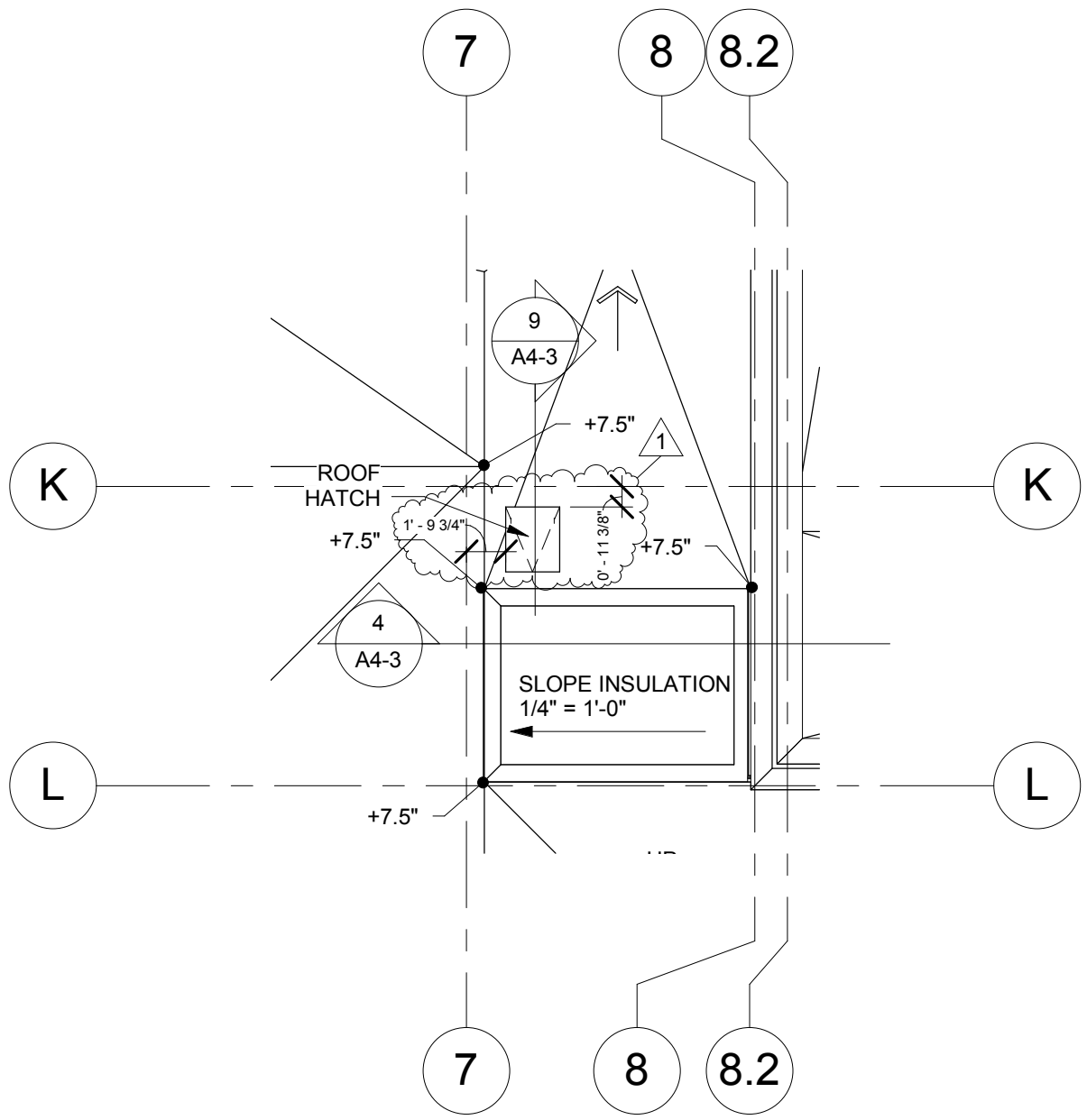
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Drawing Title
Revisions First Level
Demolition Plan - Area
F

From Sheet	for CA use:
Drawing #	
AD1-1F.1	



1 First Level Demolition Plan - Area F
1/8" = 1'-0"



① Roof Level - Area G
 1/8" = 1'-0"

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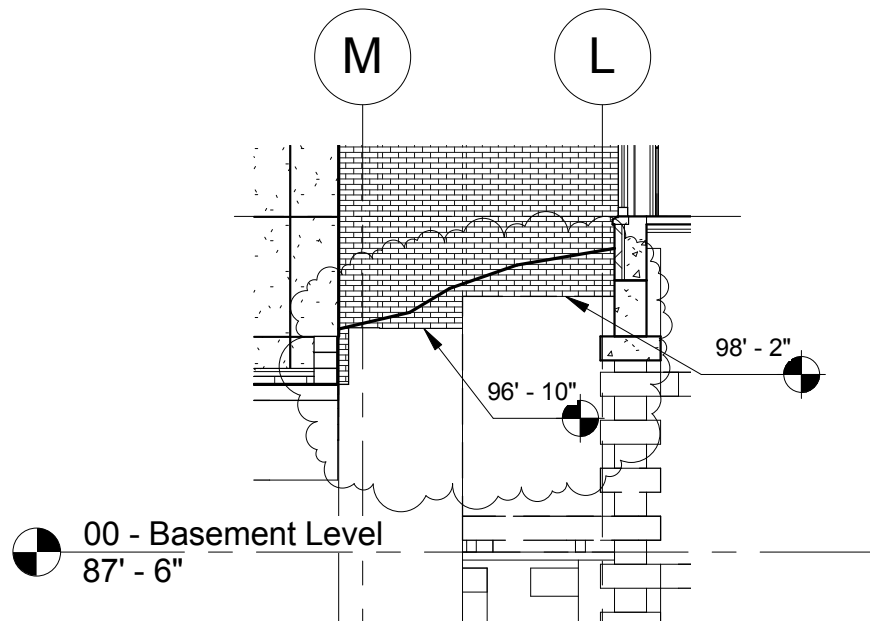
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Drawing Title
Roof Hatch

From Sheet	for CA use:
Drawing # A1-2G.1	



00 - Basement Level
87' - 6"

96' - 10"

98' - 2"

GENERAL NOTE: SPOT ELEVATIONS DENOTE
THE MASONRY LEDGE TYPICAL.

4 East Elevation
1/8" = 1'-0"

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DAVIS

DESIGN

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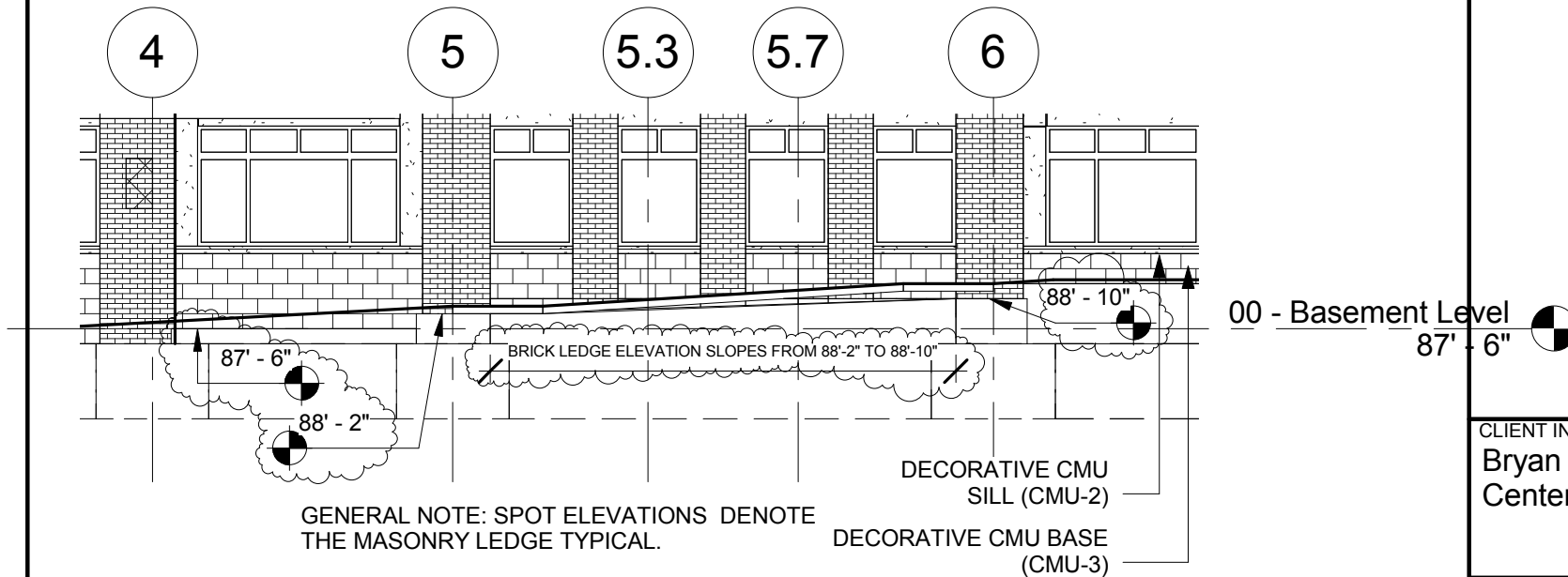
Drawing Title
**Revision Exterior
Elevations**

From Sheet	for CA use:
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Drawing #	A2-1.1
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2 South Elevation
1/8" = 1'-0"

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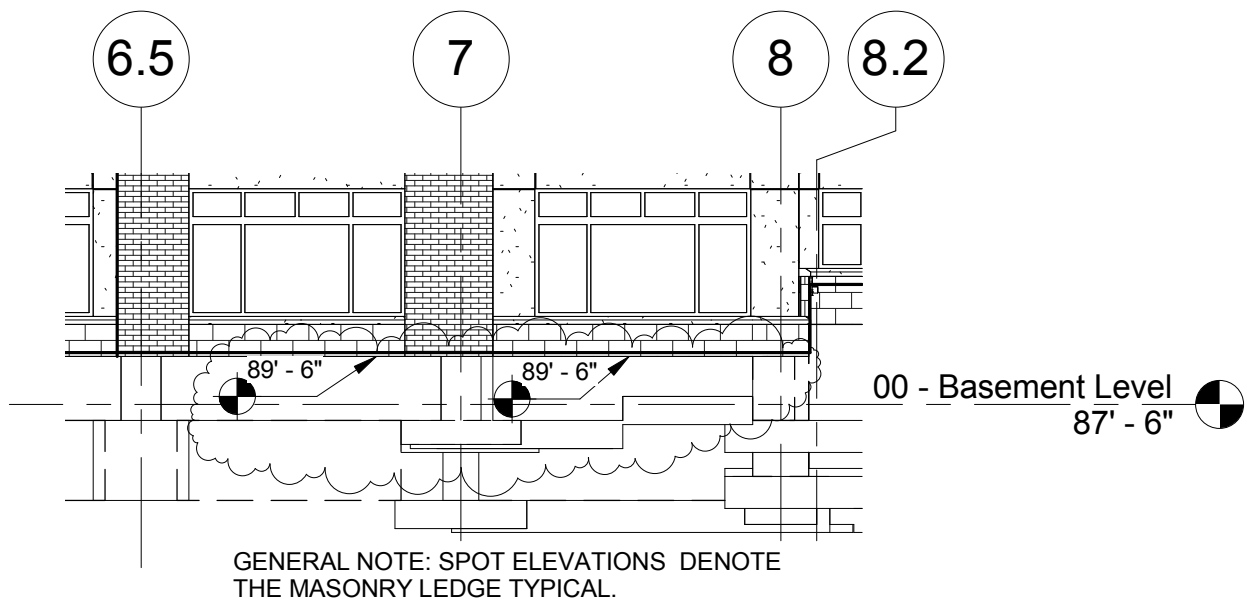
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Drawing Title
Revision Exterior
Elevations

From Sheet for CA use:

Drawing #
A2-1.2



2 South Elevation
1/8" = 1'-0"

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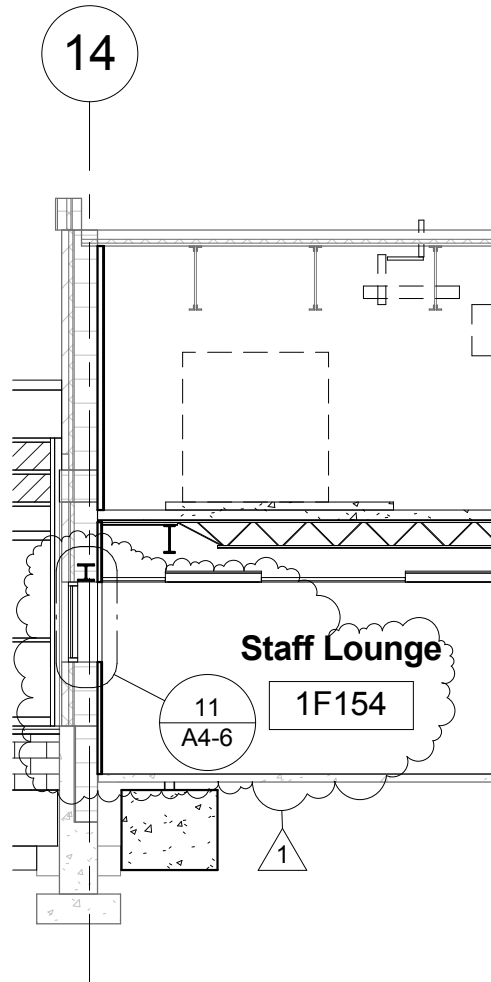
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Drawing Title
Revision Exterior
Elevations

From Sheet	for CA use:
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① Building Cross Section Looking North
1/8" = 1'-0"

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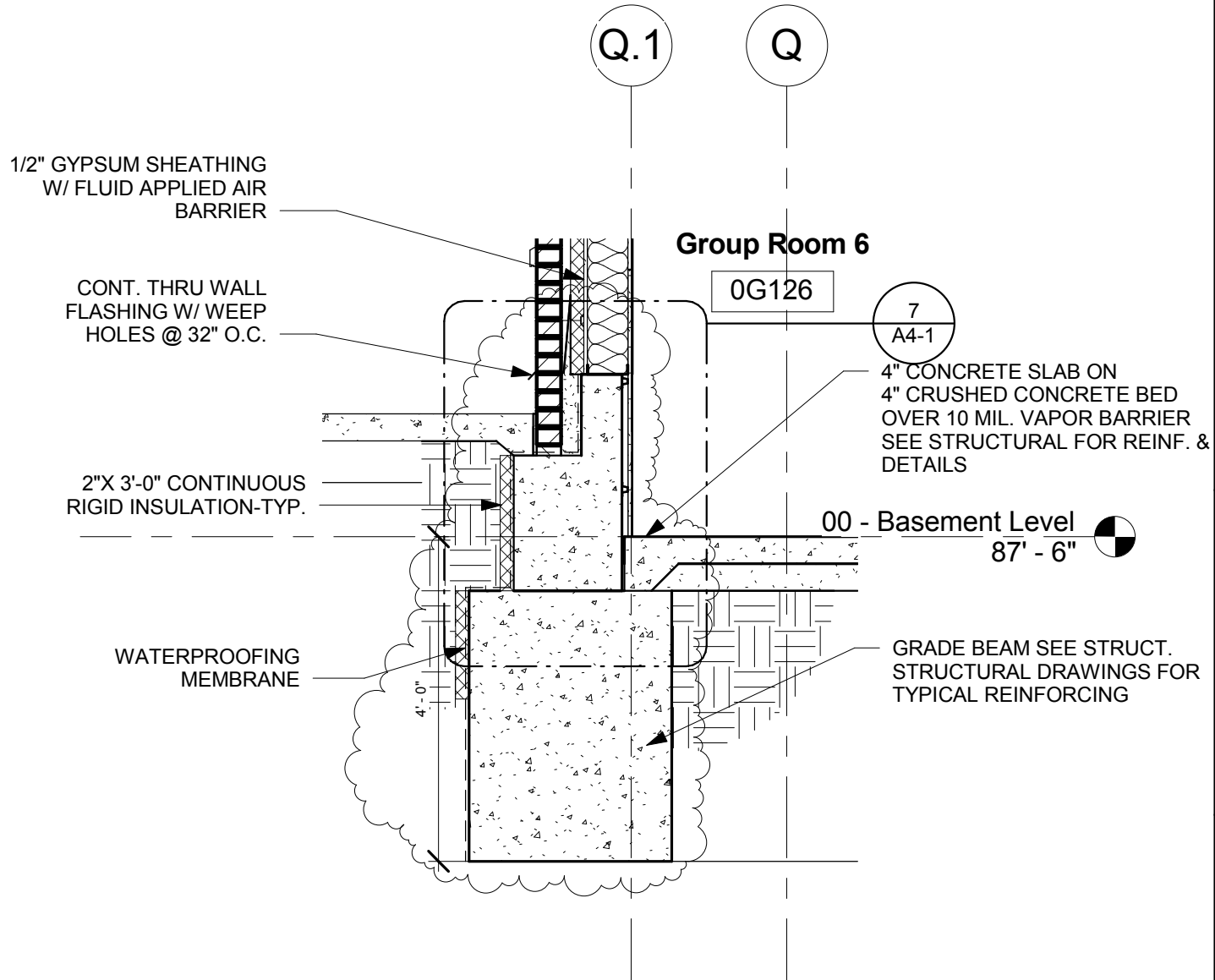
Drawing Title
Added Detail To
Building Cross Section

From Sheet	for CA use:
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Drawing #	A3-1.1
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Drawing Title
Wall Section

From Sheet	for CA use:
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1 Wall Section
1/2" = 1'-0"

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Drawing Title
Revision of Brick Veneer Detail

From Sheet	for CA use:
Drawing #	A4-1.2

Q.1

1/2" GYPSUM SHEATHING W/ FLUID APPLIED AIR BARRIER

2" RIGID INSULATION

GALV. MASONRY TIES @ 16" O.C. EA. WAY

1 3/8" AIR SPACE

4" FACE BRICK VENEER

CONT. THRU WALL FLASHING W/ WEEP HOLES @ 32" O.C.

C.I.P. CONCRETE RAMP, ELEVATION VARIES, SEE CIVIL DRAWINGS

1/2" SEALANT JOINT

GROUT INFILL

00 - Basement Level
87' - 6"

2"X 3'-0" CONTINUOUS RIGID INSULATION-TYP.

WATER PROOFING MEMBRANE TYPICAL

6" X 16 GA. METAL STUDS @ 16" O.C. W/R-19 BATT INSULATION

1

89' - 6"

7/8" DWC FURRING SPACED @ 16" O.C.

5/8" TYPE 'X' GWB OVER 6 MIL VAPOR BARRIER

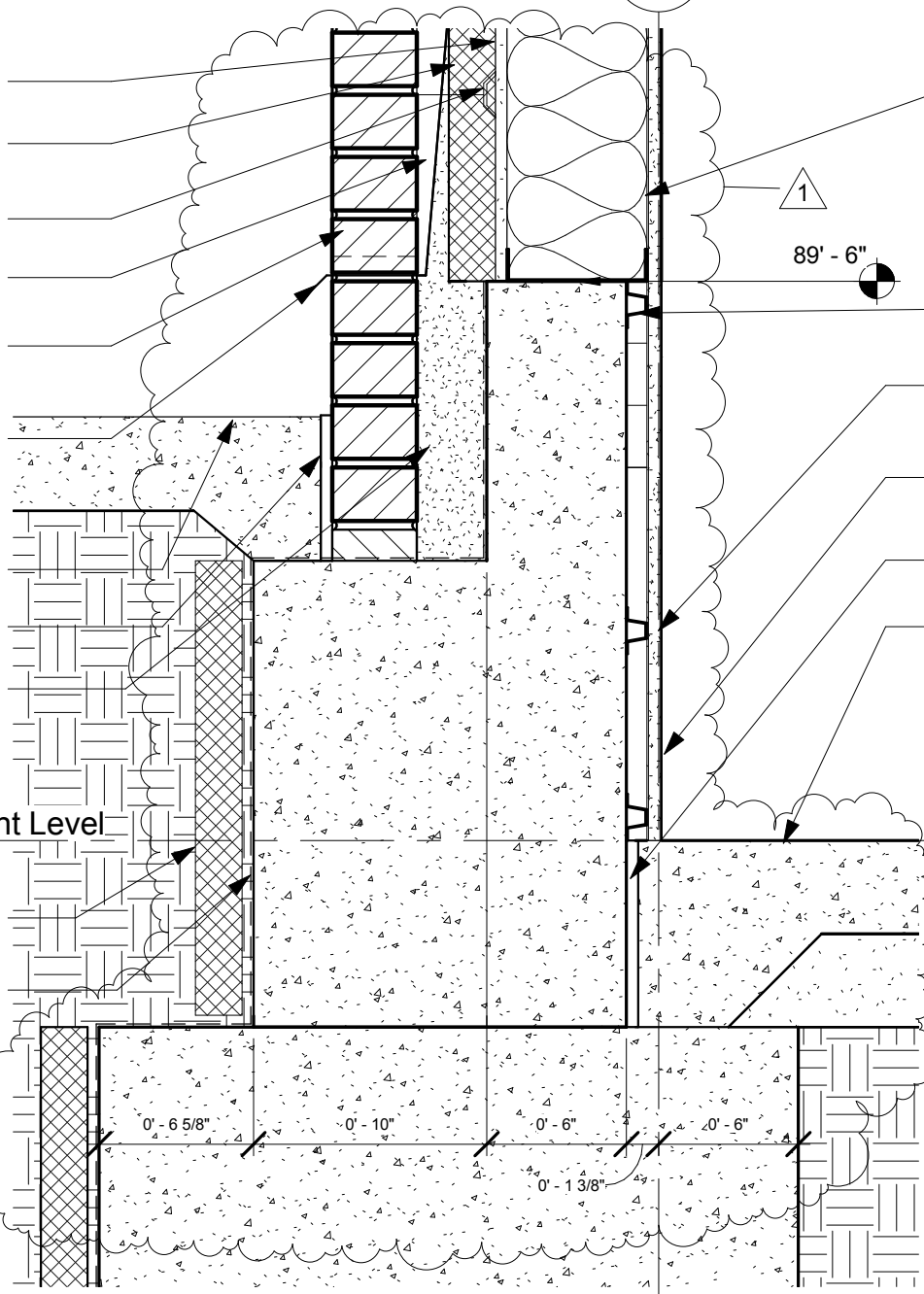
BASE AS SCHEDULED IN ROOM FINISH SCHEDULE

1/2" EXPANSION JOINT

4" CONCRETE SLAB ON

4" CRUSHED CONCRETE BED OVER 10 MIL. VAPOR BARRIER SEE STRUCTURAL FOR REINF.

0' - 8"



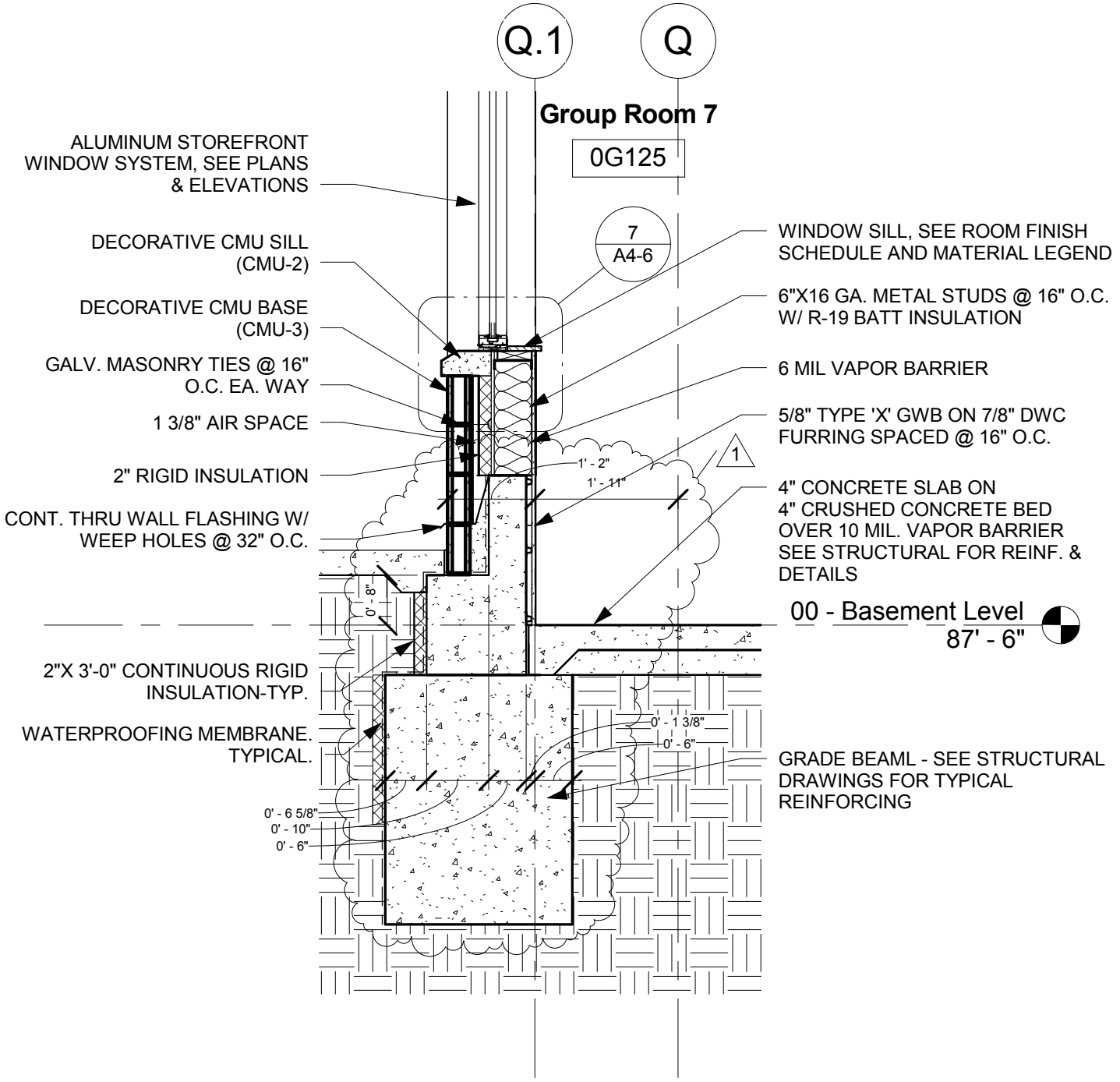
BRICK VENEER ON STEEL STUD BACKUP

Rev1

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

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Group Room 7

0G125

7
A4-6

WINDOW SILL, SEE ROOM FINISH SCHEDULE AND MATERIAL LEGEND

6"X16 GA. METAL STUDS @ 16" O.C. W/ R-19 BATT INSULATION

6 MIL VAPOR BARRIER

5/8" TYPE 'X' GWB ON 7/8" DWC FURRING SPACED @ 16" O.C.

4" CONCRETE SLAB ON 4" CRUSHED CONCRETE BED OVER 10 MIL. VAPOR BARRIER SEE STRUCTURAL FOR REINF. & DETAILS

00 - Basement Level
87' - 6"

GRADE BEAML - SEE STRUCTURAL DRAWINGS FOR TYPICAL REINFORCING

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

CLIENT INFORMATION

Bryan Health Medical Center West

PROJECT INFORMATION

Independence Center

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Issue Date:	03/21/13
Job #	11-0101
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Drawing Title
Revision of Wall Section

From Sheet for CA use:

Drawing #
A4-1.3

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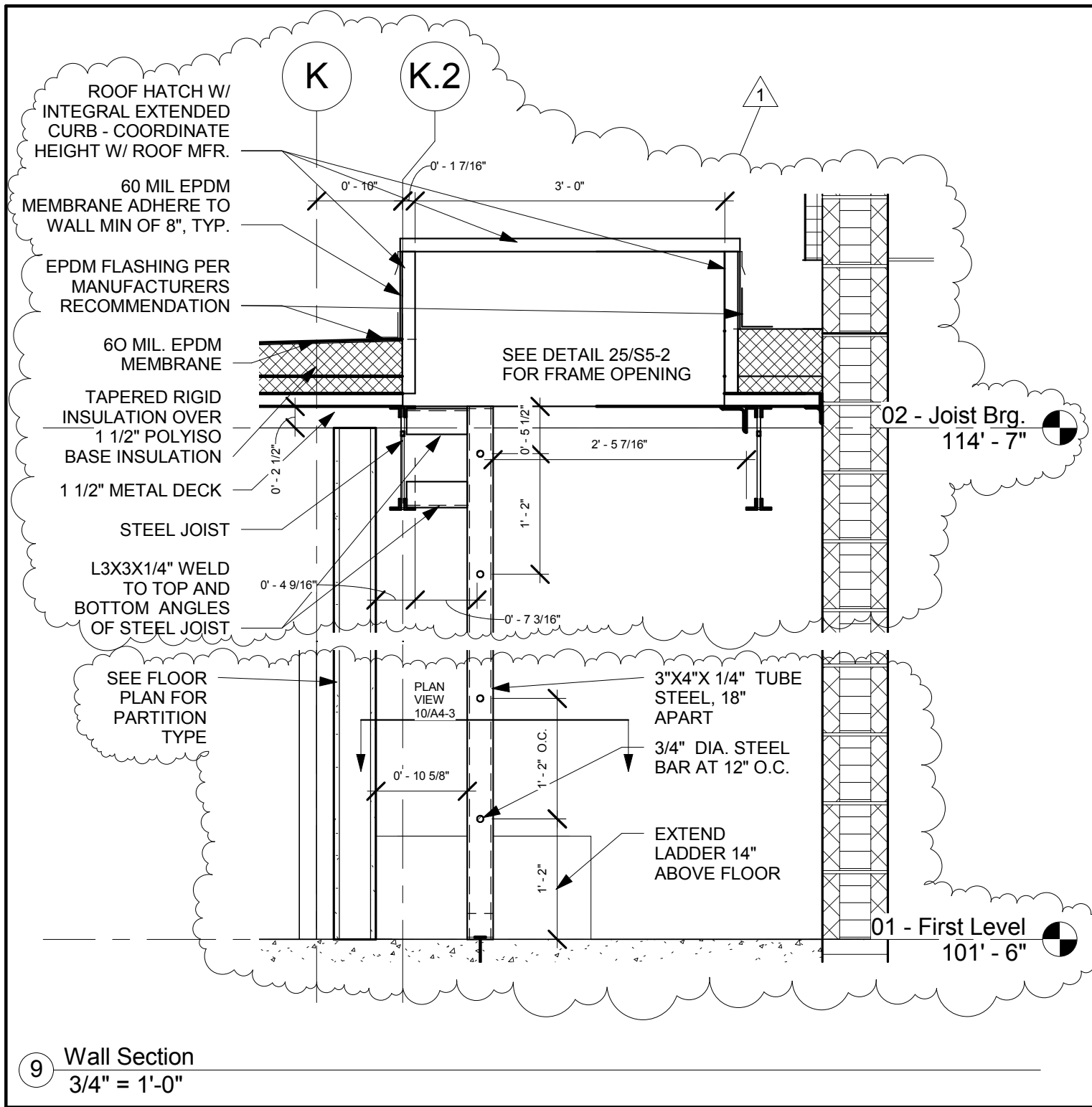
2300 S. 16th
Lincoln, NE 68502

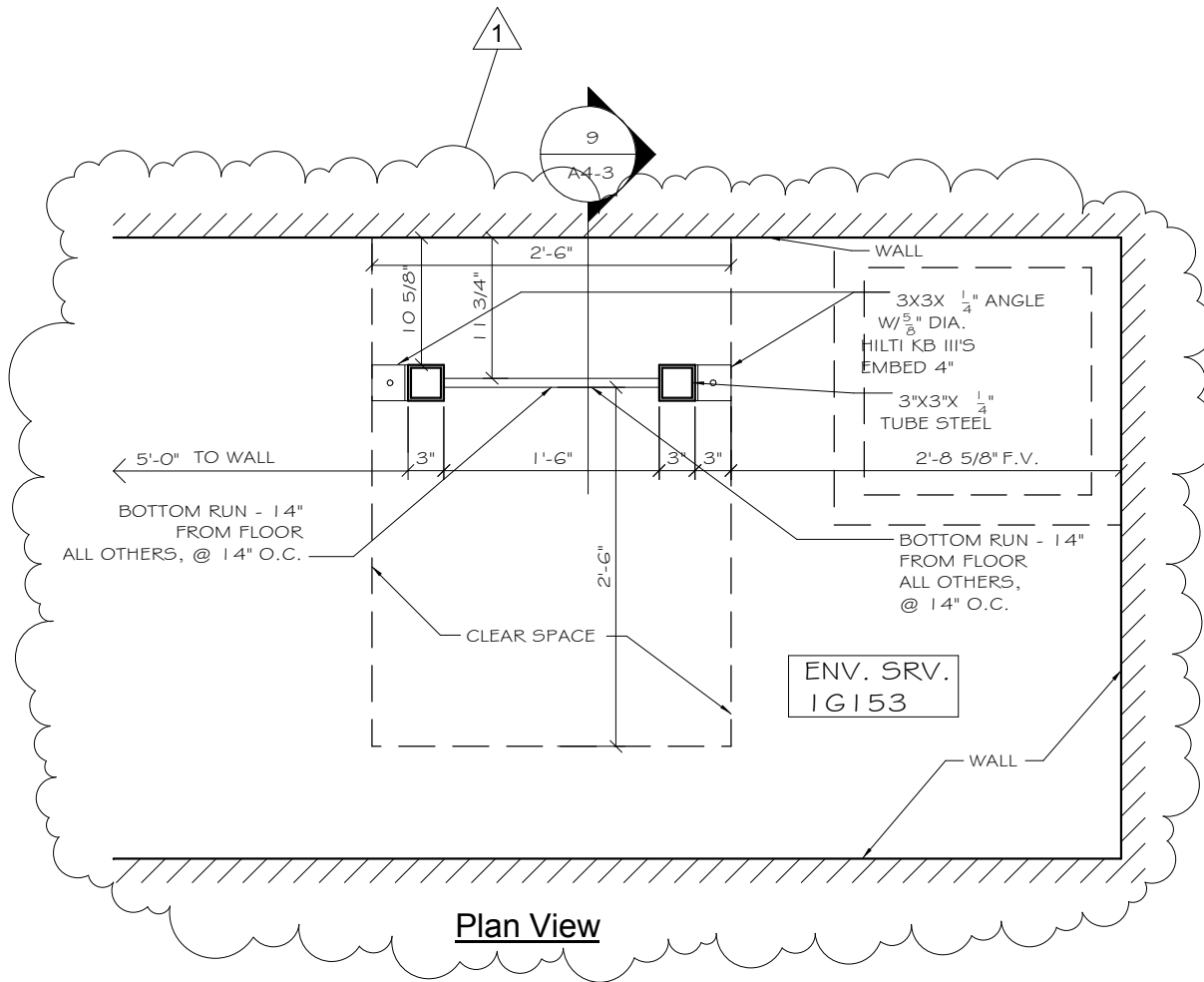
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Drawing Title
Additional Detail 9

From Sheet for CA use:

Drawing #
A4-3.1





Plan View

10 Ladder Plan
3/4" = 1'-0"

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Drawing Title
Additional Detail 10

From Sheet	for CA use:
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Drawing #	A4-3.2
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14

4" FACE BRICK TO MATCH EXISTING, TOOTH IN AS REQUIRED FOR INSTALL OF LINTEL.

REPLACE 2" RIGID INSULATION AS REQ'D

CONT. THRU WALL FLASHING W/ WEEP HOLES @ 32" O.C.

BACKER ROD & SEALANT (TYP. AT PERIMETER INSIDE & OUT)

ALUM. STOREFRONT WINDOW SYSTEM

BACKER ROD & SEALANT (TYP. AT PERIMETER INSIDE & OUT)

4" SOLID TOP SCORED FACE BURNISHED BLOCK TO MATCH EXISTING SILLS FOUND ELSEWHERE

CONT. THRU WALL FLASHING W/ WEEP HOLES @ 32" O.C.

EXISTING BURNISHED BLK TO REMAIN

EXISTING INSULATION TO REMAIN

12" CMU, TOOTH IN AS REQUIRED FOR INSTALLATION OF LINTEL

SEE FLOOR PLAN FOR PARTITION TYPE

SEE FLOOR PLAN FOR PARTITION TYPE

SUSPENDED CEILING SYSTEM

LINTEL - SEE STRUCTURAL DRAWINGS

1/2" WOOD BLOCKING

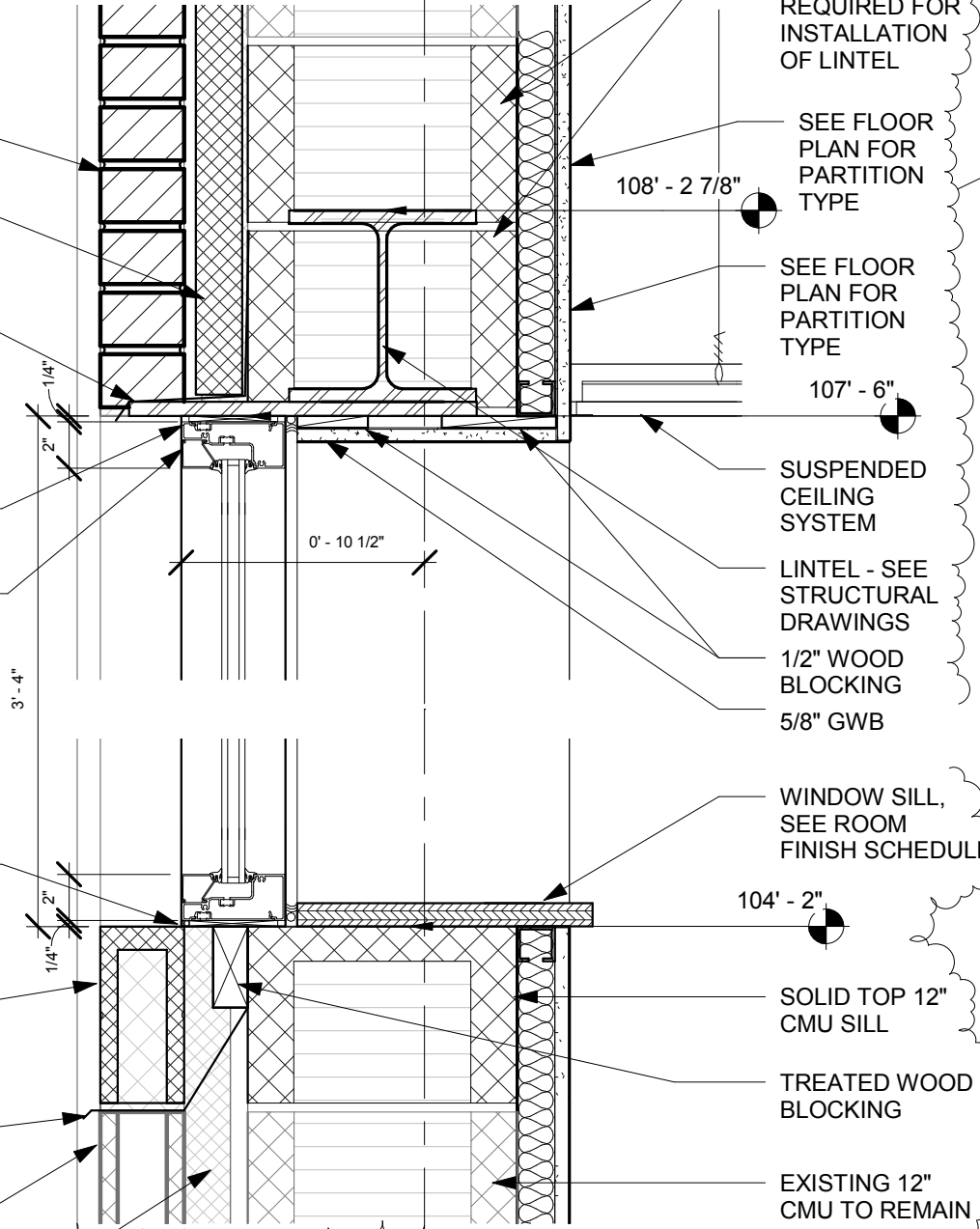
5/8" GWB

WINDOW SILL, SEE ROOM FINISH SCHEDULE

SOLID TOP 12" CMU SILL

TREATED WOOD BLOCKING

EXISTING 12" CMU TO REMAIN



11 Section Detail
1 1/2" = 1'-0"

LINCOLN
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Lincoln NE 68508
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Fax: 402-476-9722

OMAHA
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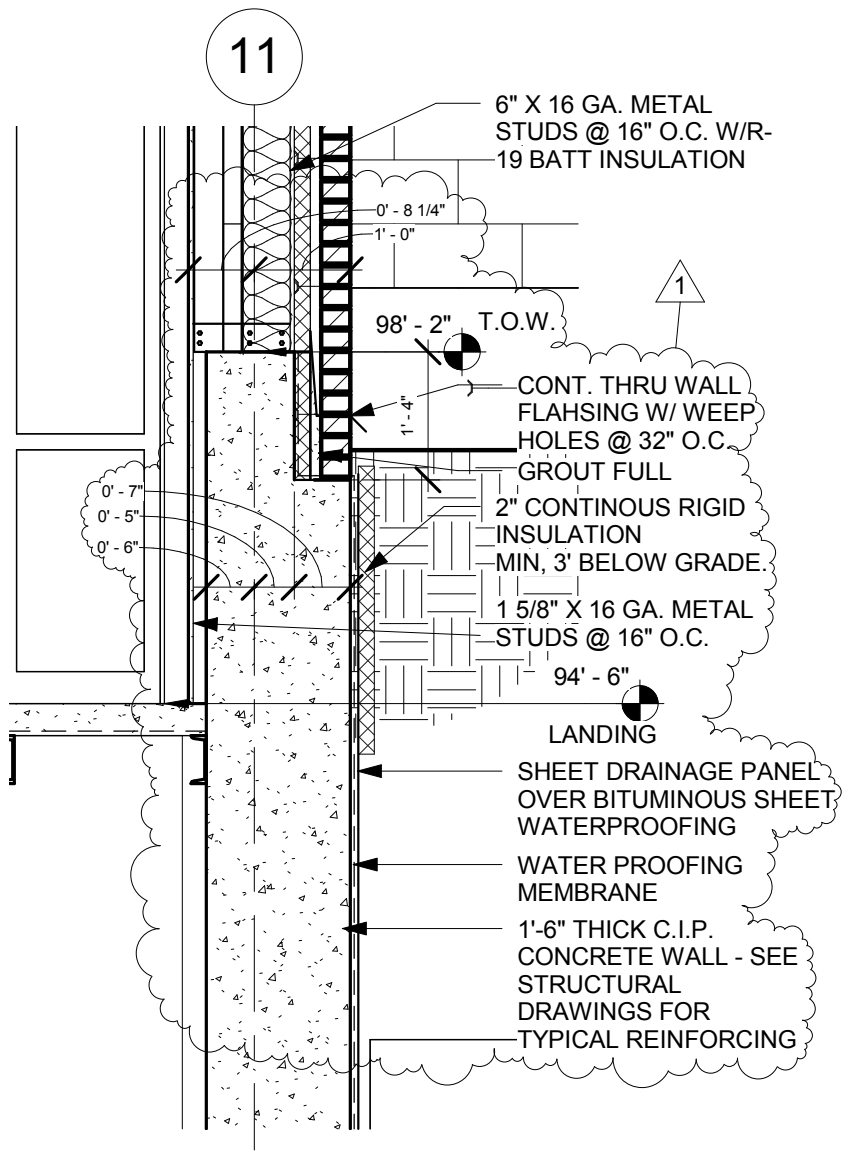
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Independence Center

2300 S. 16th
Lincoln, NE 68502

Issue Date:	03/21/13
Job #	11-0101
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Drawing Title
Added Window Section Detail

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② IC_STAIR_AA_01
1/2" = 1'-0"

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Drawing Title
Revision of Stair
Section

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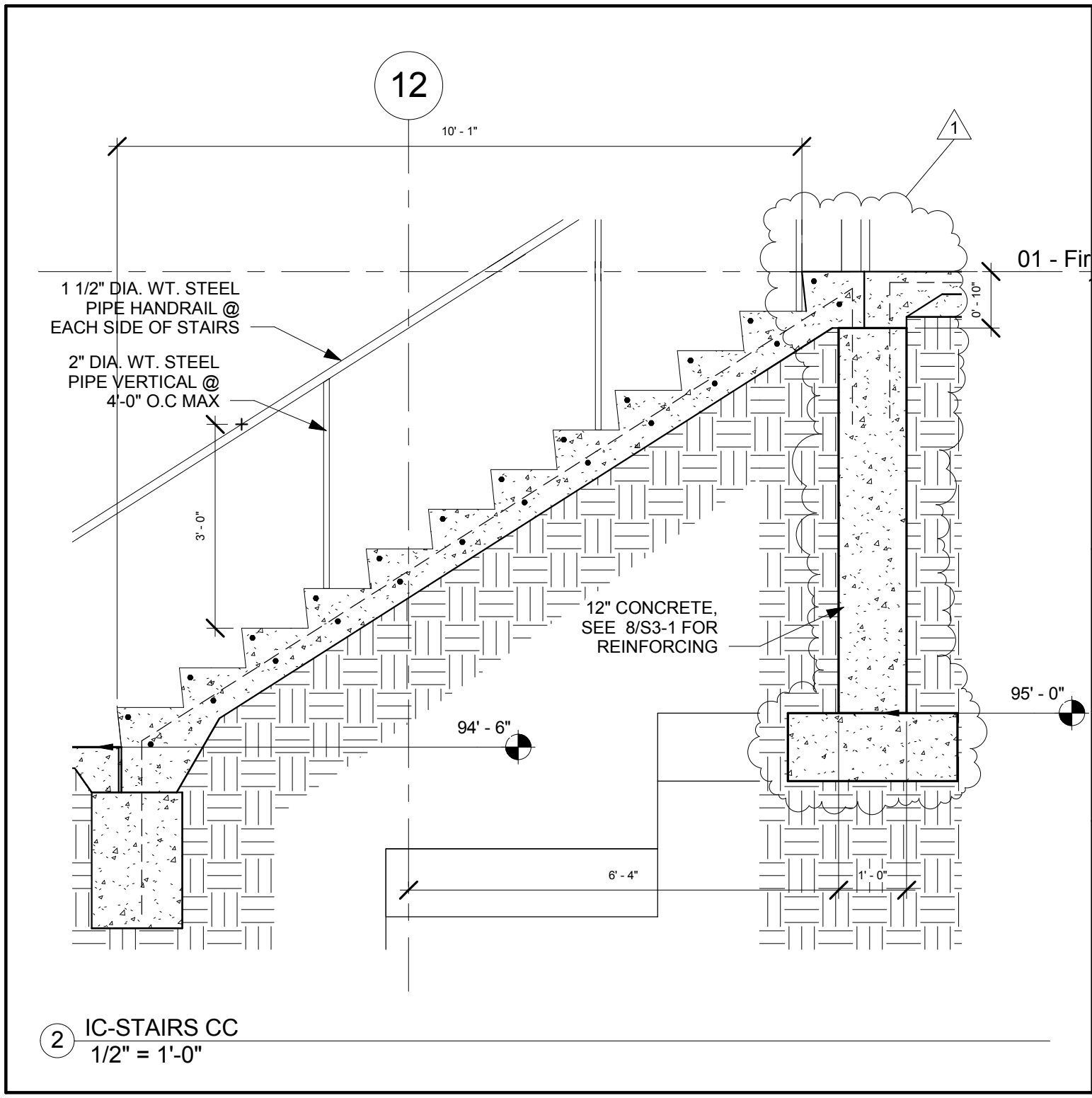
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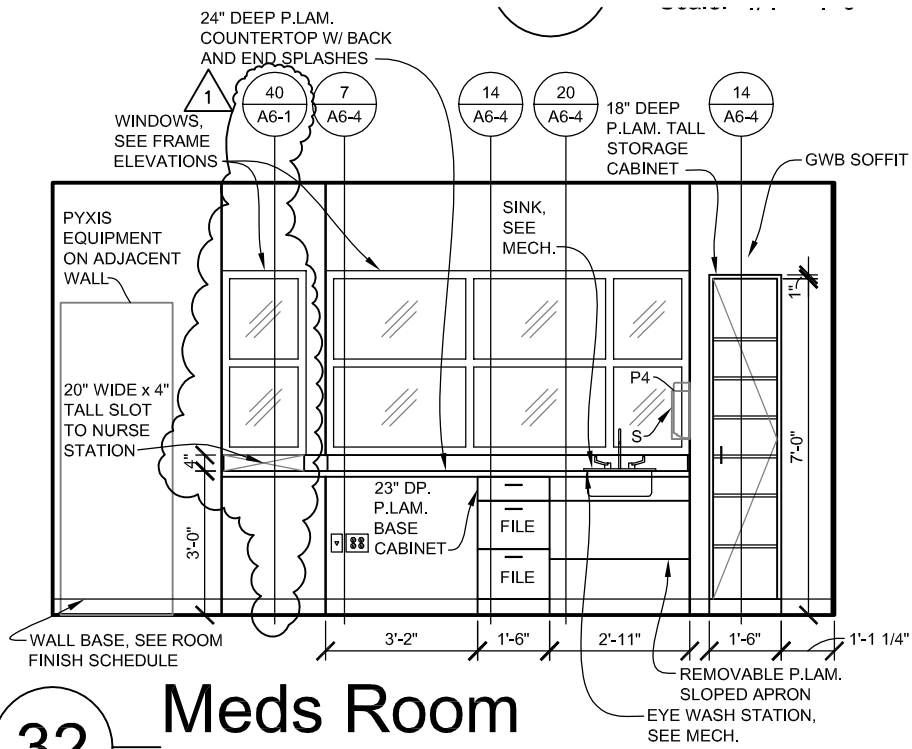
Issue Date:	03/21/13
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Drawing Title
Revised Stair Section

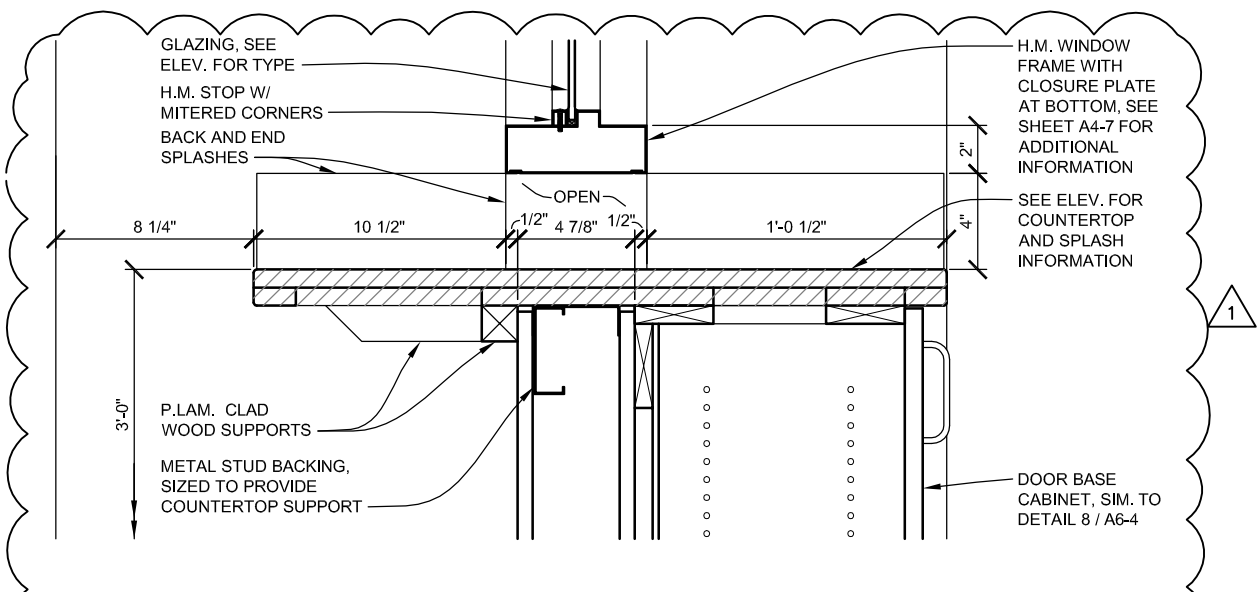
From Sheet	for CA use:
Drawing #	A5-3.1



② IC-STAIRS CC
1/2" = 1'-0"



32 **Meds Room**
Scale: 1/4" = 1'-0"



40 **WINDOW AND BASE CABINET**
Scale: 1 1/2" = 1'-0"

VERMILLION
15 EAST MAIN STREET, STE. 201
VERMILLION SD 57069-3069
Phone 605-624-1081

DAVIS
DESIGN
ARCHITECTURE ENGINEERING INTERIOR DESIGN

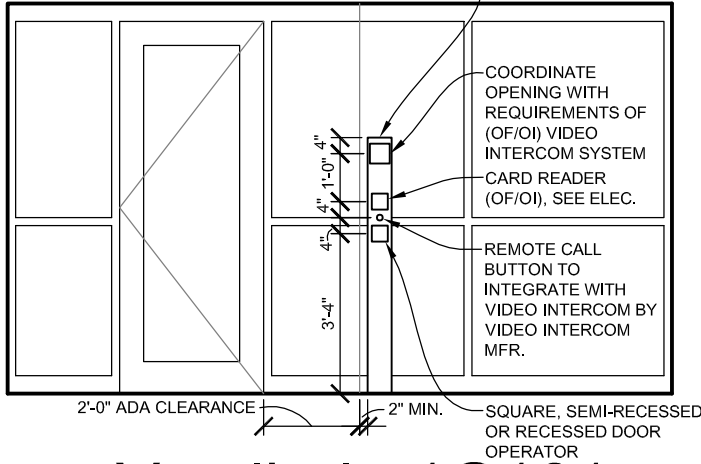
LINCOLN
211 NORTH 14TH STREET
LINCOLN NE 68508-1616
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Client Information
Bryan Health West Medical Center

Project Information
Independence Center
Lincoln, Nebraska

Issue Date	03-22-2013
Job #	11-0101
Drawn by:	kas
CADD file:	A6-1
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Drawing Title Revisions to Elevation 32 and Addition of Detail 40	
From Sheet:	A6-1 for CA use:
Drawing #	A6-1.1

6" x 6" 4mm CLEAR ANODIZED ALUMINUM PEDESTAL SHROUD WITH REINFORCED CORNERS FOR STABILITY, REMOVABLE FLAT TOP WITH UNOBSVIOUS DETACHMENT SYSTEM, REMOVABLE BACK PANELS WITH CONCEALED ATTACHMENT AND CONCEALED BASE PLATE ANCHORED TO THE FLOOR WITH EXPANSION ANCHORS, COORDINATE SIZE OF OPENINGS AND OVERALL SIZE WITH OWNER AND CONTRACTOR PROVIDED SYSTEMS

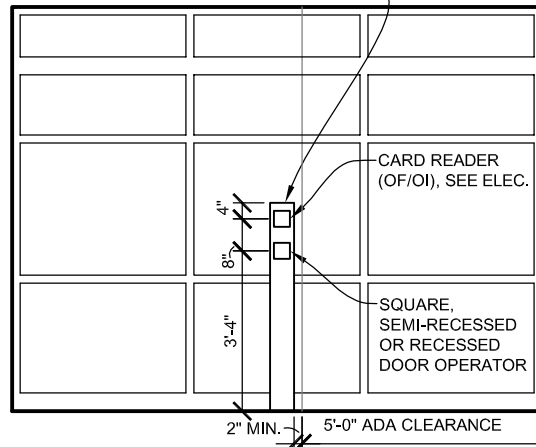


41

Vestibule 1G101

Scale: 1/4" = 1'-0"

6" x 6" 4mm CLEAR ANODIZED ALUMINUM PEDESTAL SHROUD WITH REINFORCED CORNERS FOR STABILITY, REMOVABLE FLAT TOP WITH UNOBSVIOUS DETACHMENT SYSTEM, REMOVABLE BACK PANELS WITH CONCEALED ATTACHMENT AND CONCEALED BASE PLATE ANCHORED TO THE FLOOR WITH EXPANSION ANCHORS, COORDINATE SIZE OF OPENINGS AND OVERALL SIZE WITH OWNER AND CONTRACTOR PROVIDED SYSTEMS



42

Vestibule 1F129

Scale: 1/4" = 1'-0"



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Client Information

**Bryan Health
West Medical
Center**

Project Information

**Independence Center
Lincoln, Nebraska**

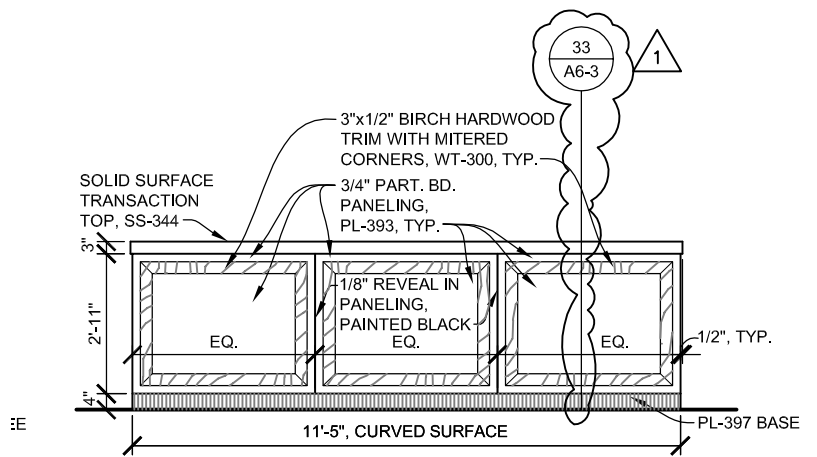
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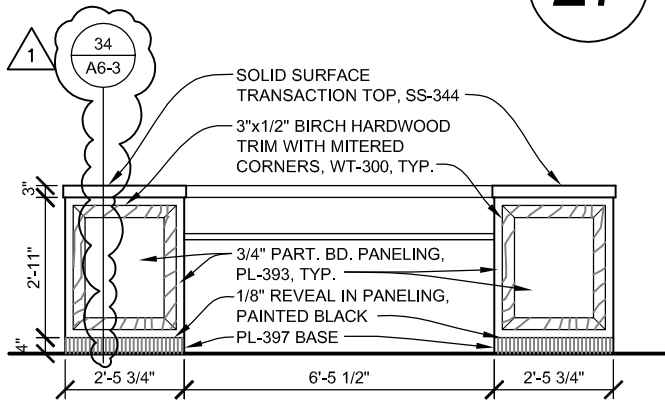
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Addition of Elevations 41 and
42

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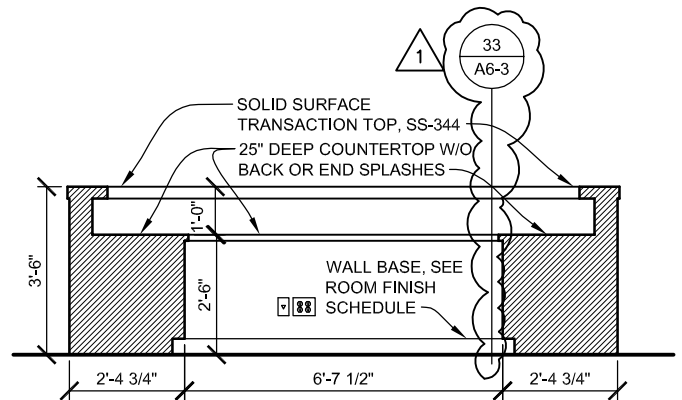
Drawing #
A6-1.2



27 Desk (Corridor Side)
Scale: 1/4" = 1'-0"



29 Desk (Back)
Scale: 1/4" = 1'-0"



30 Desk (Inside Front)
Scale: 1/4" = 1'-0"



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Client Information

**Bryan Health
West Medical
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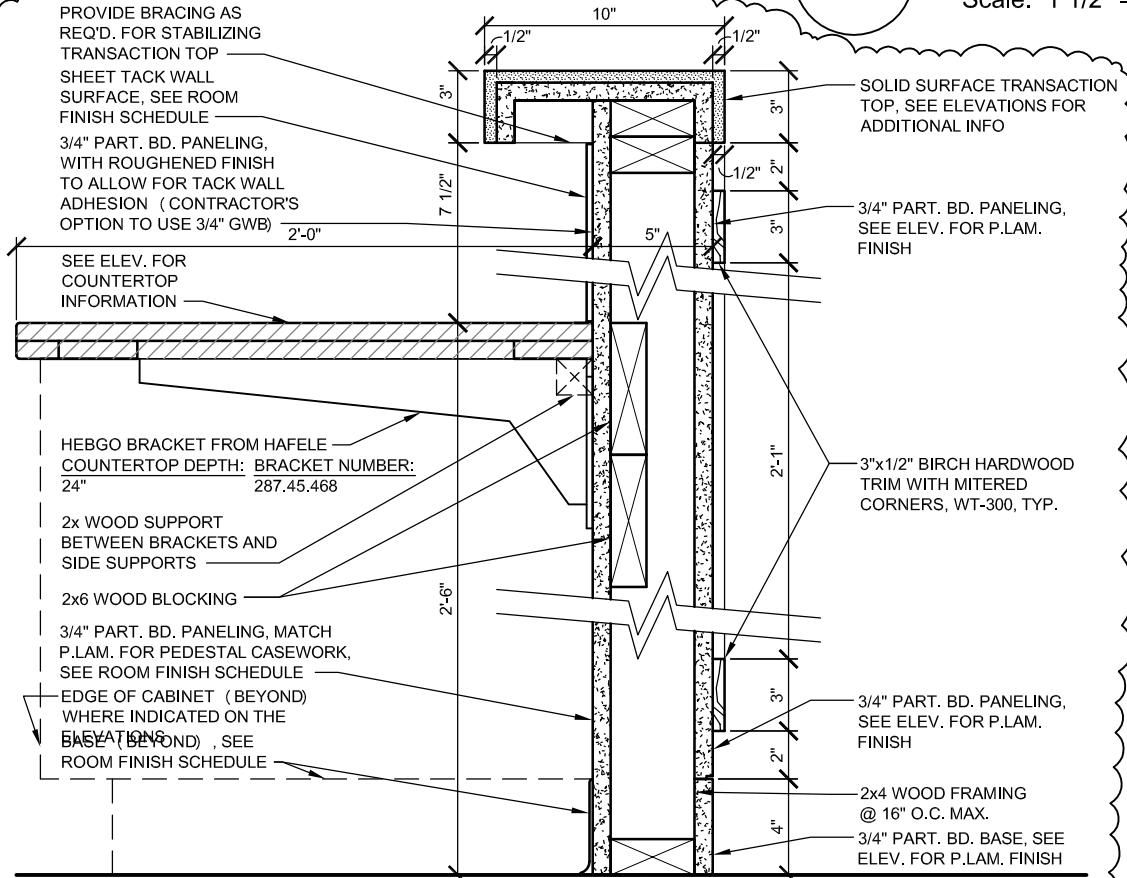
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Drawing Title	
Revision to Elevations 27, 29 & 30	
From Sheet:	for CA use:
A6-2	
Drawing #	
A6-2.1	

21

Scale: 1 1/2" =



33

SECTION THRU NURSE STATION

Scale: 1 1/2" = 1'-0"



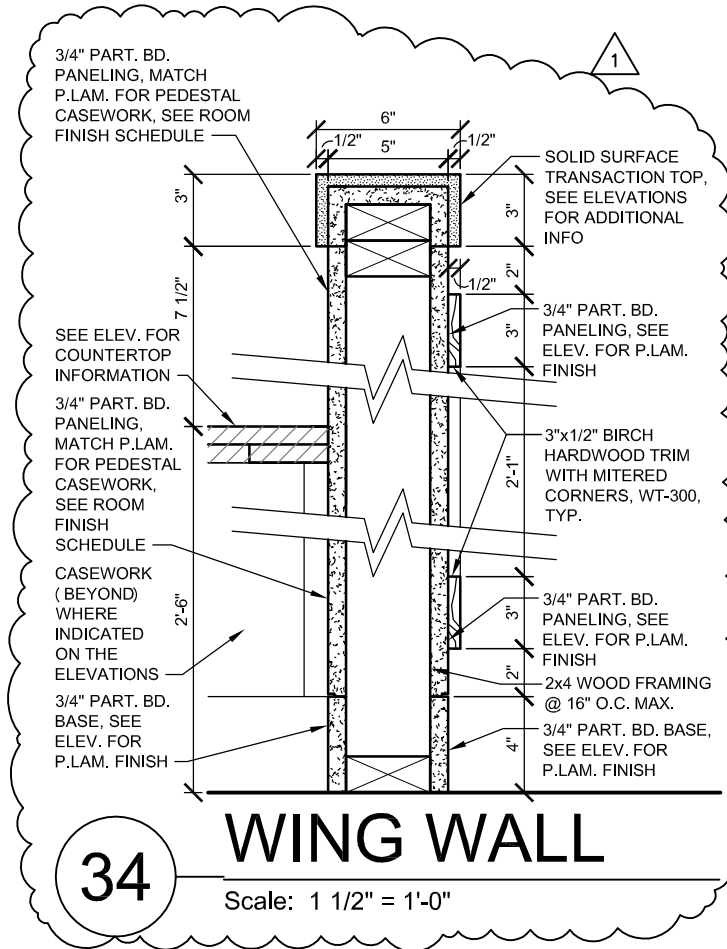
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Client Information
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Drawing Title Addition of Detail 33	
From Sheet:	A6-3
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Drawing #	A6-3.1



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Client Information
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From Sheet:	A6-3
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Drawing #	A6-3.2

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CLIENT INFORMATION

Bryan Health Medical Center West

PROJECT INFORMATION

Independence Center

2300 S. 16th
Lincoln, NE 68502

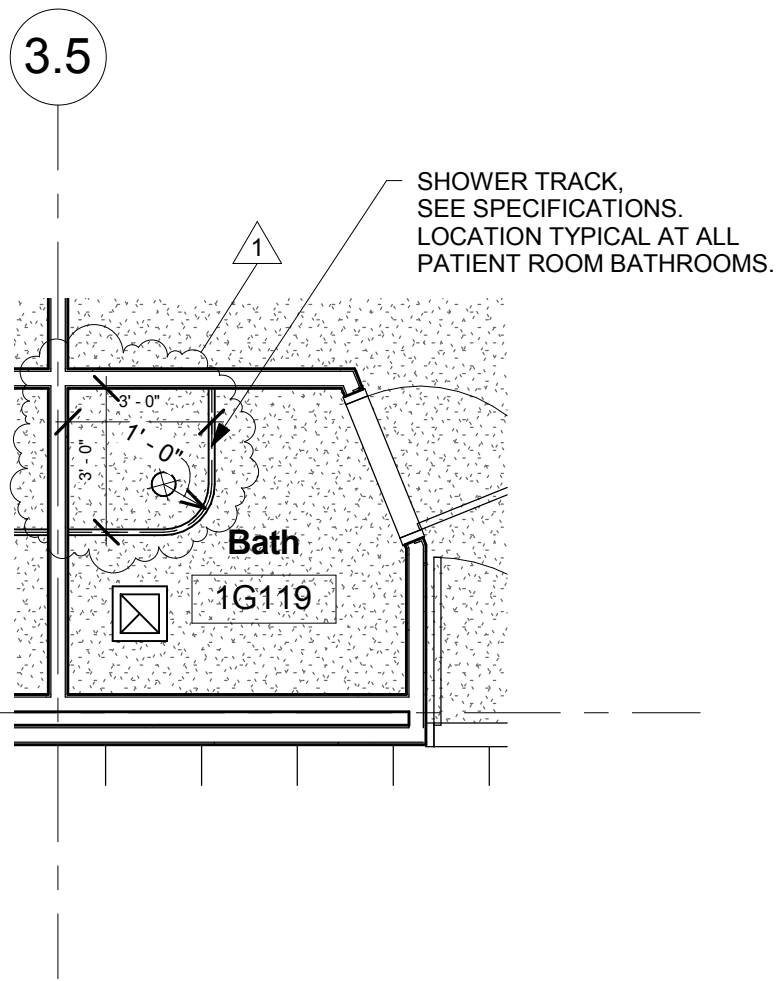
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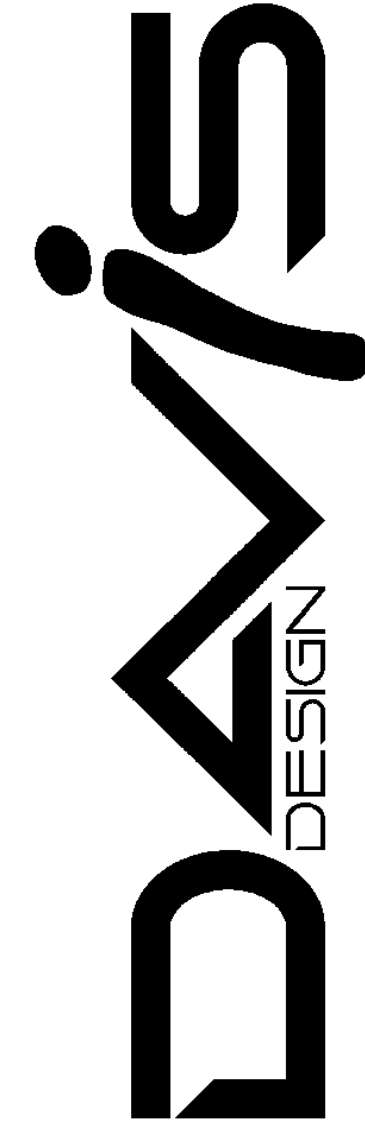
Drawing Title
Revision of Ceiling Plan

From Sheet for CA use:

Drawing #
A7-1G.1



4 Bathroom Ceiling Plan
1/4" = 1'-0"

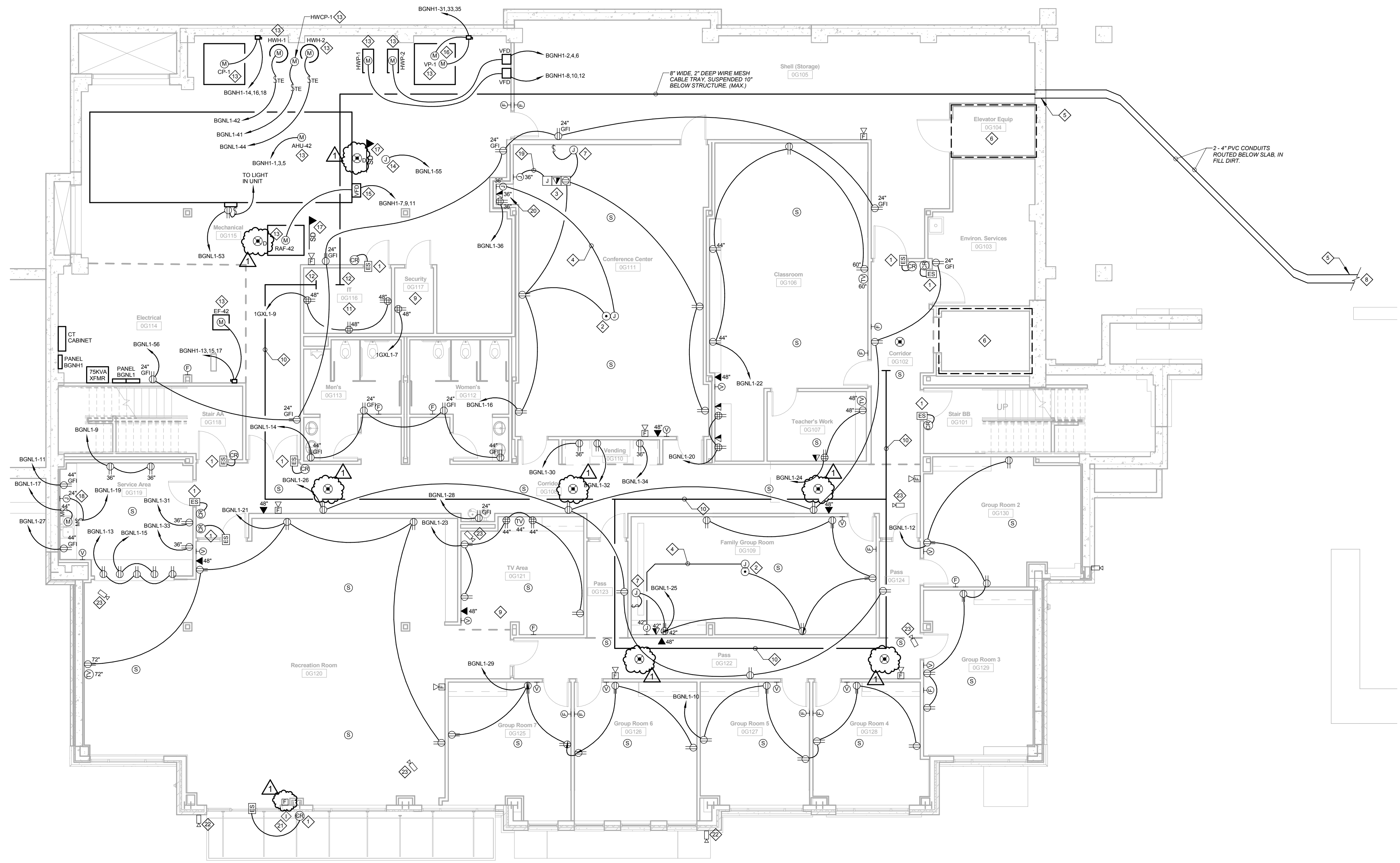


GENERAL POWER AND SYSTEMS NOTES

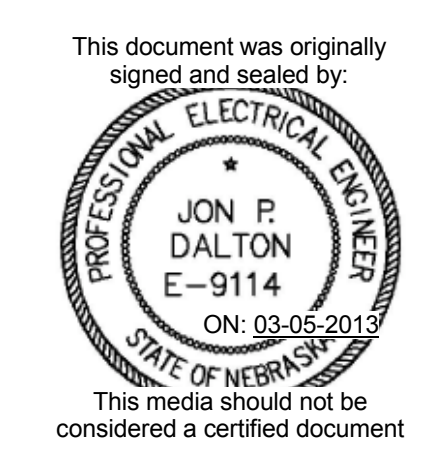
- SEE E1 SERIES SHEETS FOR COMPLETE LIGHTING PLAN.
- SEE SHEET E1-1 FOR SYMBOL, LEGEND, ELECTRICAL RISER DIAGRAM, MECHANICAL EQUIPMENT CONNECTION SCHEDULE & PANEL SCHEDULES.
- SEE E5 SERIES SHEETS FOR POWER INSTALLATION AND GENERAL DETAILS.
- ALL DEVICES SHOWN SHALL BE MOUNTED AT 18" A.F.F. UNLESS INDICATED OTHERWISE.
- ALL PHONE/DATA JACKS SHOWN SHALL BE ROUGH-IN BOXES AND STUB UP CONDUITS EXTENDED TO WITHIN 6" OF NEAREST CABLE TRAY IN CORRIDOR. PROVIDE FULL STRING AND PLASTIC BUSHING AT CONDUIT END. PHONE/DATA WIRING BY OTHERS. ALL BOXES SHALL HAVE BOX SUPPORTS.
- SEE ARCHITECTURAL SHEETS FOR ARCHITECTURAL ELEVATIONS AND MORE PRECISE LOCATIONS OF ALL ELECTRICAL GEAR.
- SYSTEM FURNITURE IS NOT PROVIDED AS PART OF THIS CONTRACT. ELECTRICAL CONTRACTOR SHALL VERIFY ALL LOCATIONS OF SYSTEM FURNITURE AND REQUIRED ELECTRICAL EQUIPMENT WITH OWNER PROVIDED SHEET DRAWINGS IN ORDER TO PROVIDE ALL SYSTEMS FURNITURE, POWER, LIGHTING, AND DATA REQUIREMENTS.
- ALL ELECTRICAL DEVICES ARE TO BE COORDINATED WITH FURNITURE INSTALLATION PRIOR TO ROUGH-IN TO AVOID ANY CONFLICTS WITH FURNITURE SYSTEMS PANELS.
- ALL CIRCUITS SHALL HAVE SEPARATE NEUTRAL WIRES BUT CAN SHARE AN INSULATED GREEN GROUND WIRE NOT SHOWN IN MEMBER 24" x 24" CONDUIT WITH STEEL COMPRESSION FITTINGS UNLESS INDICATED OTHERWISE. (TYPICAL) A/C, M/C OR B/CABLE SHALL NOT BE USED.
- NO BOXES SHALL BE MOUNTED BACK TO BACK.
- ALL WIRING AND CONDUIT SHALL BE CONCEALED IN ROOMS UNLESS INDICATED BY NOTES OR WRITTEN APPROVAL OF THE ENGINEER OR ARCHITECT. ON OTHERS LOCATED IN MECHANICAL, ELEVATOR EQUIPMENT, ELECTRICAL AND IT ROOMS.
- COORDINATE ALL POWER LOCATIONS FOR EQUIPMENT WITH EQUIPMENT THAT IS SUPPLIED AND WITH ALL TRACES.
- FOR 120 VOLT POWER CIRCUITS WHERE CIRCUIT LENGTH EXCEEDS 75 FEET, #12 AWG SHALL BE USED. WHERE CIRCUIT EXCEEDS 125 FEET, #10 AWG SHALL BE USED FOR FEET 75 FEET - 100 FEET. SEE EQUIPMENT SCHEDULE FOR WIRING REQUIREMENTS FOR MECHANICAL EQUIPMENT.
- ALL RACEWAYS ROUTED THROUGH WALLS SHALL BE SEALED AS REQUIRED BY AND IN ACCORDANCE WITH NFPA 70-110.3(B)(3) AND 300.305 AND 300.311.
- ELECTRICAL CONTRACTOR IS TO PROVIDE A SURFACE MOUNTED JUNCTION BOX IN THE ACCESSIBLE CEILING SPACE IN THE CORRIDOR THAT IS CONNECTED TO THE NORMAL AND CRITICAL CIRCUITS SUPPLYING POWER TO EACH ROOM TO ALLOW FOR FUTURE CIRCUITING.
- CEILING MOUNTED DEVICES SHALL BE CENTERED IN CEILING TILE WHERE INSTALLED IN ACCUSTICAL TILE CEILING.
- PROX. CARD READER DETAIL SHOWN ON SHEET ES-1, DETAIL 8. CONTRACTOR SHALL SUPPLY MATERIALS AS INDICATED ON DETAIL.
- CONTRACTOR MUST MAINTAIN FIRE/SMOKE DETECTION DURING REMOVAL OF CEILING AND CENTER OR PROVIDE 24 HOUR SUPERVISION UNTIL NEW SYSTEM IS FULLY OPERATIONAL.
- CONTRACTOR SHALL COORDINATE ALL FIRE EQUIPMENT INSTALLATION WITH MECHANICAL INSTALLATION. SEE ARCHITECTURAL SHEETS FOR FIRE PROTECTION AND DETAIL.
- CONTRACTOR SHALL FURNISH COMPLETE AND WORKING SYSTEMS AS SPECIFIED.
- CONTRACTOR SHALL FOLLOW ALL ADA REQUIREMENTS AND GUIDELINES.
- ALL COVER PLATES, POWER AND SPECIAL SYSTEMS, SHALL MATCH IN SHADE AND COLOR THROUGHOUT THE PROJECT.
- ALL SECURITY DEVICES SHOWN SHALL BE ROUGH-IN BOXES AND STUB UP CONDUITS EXTENDED TO WITHIN 6" OF NEAREST CABLE TRAY IN CORRIDOR. PROVIDE FULL STRING WITH PLASTIC BUSHING. SECURITY WIRES BY OWNER. ALL BOXES SHALL HAVE BOX SUPPORTS. ALL HEAD AND EQUIPMENT IS TO BE PROVIDED IN SECURITY ROOM ONLY BY OWNER. COORDINATE WITH SECURITY SYSTEMS INSTALLER FOR ANY ELECTRICAL REQUIREMENTS.
- THE BUILDING WILL INCLUDE A FULL PAGING SYSTEM CONNECTED TO THE EXISTING PAGING SYSTEM IN THE HOSPITAL. ALL SOUND SYSTEM DEVICES SHOWN SHALL BE ROUGH-IN BOXES AND STUB UP CONDUITS EXTENDED TO WITHIN 6" OF NEAREST CABLE TRAY IN CORRIDOR. PROVIDE FULL STRING WITH PLASTIC BUSHING. PROVIDE EQUIPMENT AND WIRING AS BY OTHERS. ALL BOXES SHALL HAVE BOX SUPPORTS. COORDINATE WITH OWNER AND SOUND SYSTEM INSTALLER FOR ANY ADDITIONAL ELECTRICAL REQUIREMENTS OTHER THAN WHAT IS SHOWN.
- DOORS SHOWN TO HAVE PROX. CARD READERS THAT ARE NOT IN THE PATH OF EGRESS SHALL FAIL IN THE SAFE POSITION IN THE CASE OF POWER LOSS OR FIRE ALARM ACTIVATOR.
- DOORS SHOWN TO HAVE PROX. CARD READERS THAT ARE NOT IN THE PATH OF EGRESS SHALL FAIL IN THE SECURE POSITION IN THE CASE OF POWER LOSS OR FIRE ALARM ACTIVATOR.
- EACH BUILDING WILL INCLUDE A FULL FIRE ALARM SYSTEM CONNECTED TO THE EXISTING FIRE ALARM SYSTEM IN THE HOSPITAL. PROVIDE FIRE ALARM SYSTEM PER SPECIFICATION.

KEYED POWER AND SYSTEMS NOTES

- CARD READER BOX, ELECTRIC STRIKE BOX, AND CONDUITS BY ELECTRICAL CONTRACTOR. CARD READER SUPPLIED AND INSTALLED BY OWNER. SEE DETAIL 8, SHEET E1-1 FOR COMPLETE INSTALLATION INFORMATION. CABLES WILL BE PULLED TO THE SECURITY ROOM 00117 IN THE LOWER LEVEL.
- CEILING MOUNTED RECEPTACLE AND J-BOX ARE TO BE USED FOR CEILING MOUNTED PROJECTOR. COORDINATE EXACT MOUNTING LOCATION WITH OWNER PRIOR TO REMOVAL.
- FLOOR MOUNTED RECEPTACLE AND PHONE/DATA JACK ARE FOR PODIUM POWER AND COMMUNICATION CONNECTION. COORDINATE EXACT MOUNTING LOCATION WITH OWNER PRIOR TO REMOVAL. PROVIDE 1" CONDUIT FROM CONNECTION BOX TO NEAREST WALL. EXTEND TO 6" ABOVE CEILING AND TO NEAREST CABLE TRAY.
- PROVIDE 1/2" CONDUIT BETWEEN CEILING MOUNTED J-BOX AND WALL J-BOX AS SHOWN. PROVIDE FULL STRING WITH PLASTIC BUSHING AND PULL STRINGS.
- PROVIDE SLEEVE THROUGH FOUNDATION WALL FOR 2 - 4" PVC CONDUIT. SEAL SLEEVE AFTER INSTALLATION OF CONDUIT.
- SEE DETAIL 2, SHEET E2-1 FOR ELECTRICAL REQUIREMENTS IN ELEVATOR EQUIPMENT ROOMS, ELEVATOR, ELEVATOR RITES, AND HOBBYWAYS.
- PROVIDE J-BOX AND SWITCH FOR MOTORIZED SCREEN. COORDINATE POWER SUPPLY LOCATION AND SWITCH CONTRIBUTION WITH MANUFACTURER PRIOR TO PLACEMENT OF J-BOX. COORDINATE SWITCH LOCATION WITH OWNER PRIOR TO ROUGH-IN.
- SEE SHEET E2-1F FOR CONDUIT CONTINUATION.
- NOT USED.
- PROVIDE 1/2" DEEP WIRE MESH CABLE TRAY IN ACCESSIBLE CEILING SPACE. COORDINATE ROUTING THROUGH CEILING WITH MECHANICAL AND ELECTRICAL DEVICES AND DUCTWORK. PROVIDE ANY NECESSARY SUPPORTS, BEARS, ELEVATION ADJUSTMENTS, OR OF SETS REQUIRED.
- INSTALL 3/4" FLAME RETARDANT PLYWOOD FROM FLOOR TO 8" ABOVE FINISH FLOOR WITH 2" OVERLAP. FINISH POWER CABLE TO MATCH ROOM FLOOR. PROVIDE EXTENSION RINGS ON ALL RECESSIBLE ELECTRICAL BOXES SO DEVICES ARE FLUSH WITH FINISH FLOOR.
- CABLE TRAY SHALL EXTEND INTO IT ROOM SO IT IS NOT LESS THAN 30" FROM THE WALL THROUGH WHICH IT IS ROUTED.
- SEE MECHANICAL EQUIPMENT SCHEDULE, SHEET E5-1 FOR ALL MECHANICAL EQUIPMENT CONNECTION INFORMATION.
- PROVIDE 4" SQUARE J-BOX WITH DEDICATED 100% CIRCUIT FOR TEMPERATURE CONTROL. TAG WIRE WITH PANEL AND CIRCUIT NUMBER.
- MOUNT VFD'S TO UNSTRUT STAND. DO NOT MOUNT TO MECHANICAL EQUIPMENT.
- VACUUM PUMP ALARMS ARE TO BE CONNECTED TO MASTER ALARM PANEL IN WATER TOWER 00113. SEE MECHANICAL FOR EXACT ADJACENT LOCATION.
- FREE RANGE DAMPER IS CONTROLLED BY AHU-42 AND POWERED BY 24" 1P, CB IN EMERGENCY PANEL 1004. SEE DETAIL 1, SHEET E5-1 FOR CONNECTION INFORMATION. ALL FRESH AIR DAMPERS CONTROLLED BY AHU-42 ARE TO BE CIRCUITED TO SAME CIRCUIT.
- J-BOX AND MOTOR WATER SWITCH ARE FOR CONNECTION TO DISHWASHER. PROVIDE MOTOR RATED SWITCH AT 18" AFF BELOW SINK FOR DISCONNECTING MEANS.
- PROVIDE 1/2" CONDUIT BETWEEN PODIUM LOCATION AND WALL J-BOX AS SHOWN FOR ROUTING OF DATA CABLES BETWEEN. PROVIDE CONDUIT WITH NYLON BUSHINGS AND PULL STRINGS.
- COORDINATE EXACT MOUNTING LOCATIONS OF RECEPTACLES, DATA JACKS, & J-BOXES WITH OWNER PRIOR TO ROUGH-IN TO INSURE DEVICES ARE AT DESIRED LOCATIONS.
- ALL VESSEL RETURN STATIONS WILL REQUIRE A WALL MOUNTED SQUARE BOX WITH A 24" CONDUIT STUBBED INTO NEAREST ACCESSIBLE CEILING SPACE. ALL EQUIPMENT AND CABLING WILL BE PROVIDED BY OWNER.
- ALL EXTERIOR SECURITY CAMERAS WILL REQUIRE A 4 SQUARE BOX WITH A 3/4" CONDUIT STUBBED TO NEAREST ACCESSIBLE CEILING. ALL MOUNTING HARDWARE, EQUIPMENT AND CABLING WILL BE PROVIDED BY OWNER.
- ALL INTERIOR SECURITY CAMERA LOCATIONS ARE TO BE HUNG BY CEILING TILES AND WILL NOT REQUIRE RECESSED IN RECESSED ALL MOUNTING HARDWARE, EQUIPMENT AND CABLING WILL BE PROVIDED BY OWNER.



Basement Level Power and Systems Plan - Area G
1/8" = 1'-0"



This document was originally signed and sealed by:
Professional Engineer
JON P. DALTON
E-9114
ON: 03-03-2009
DATE OF NEXT REVIEW: 03-03-2012
This media should not be considered a certified document

CLIENT INFORMATION
BryanLGH
West
Medical
Center

PROJECT INFORMATION
Independence
Center
Lincoln, NE

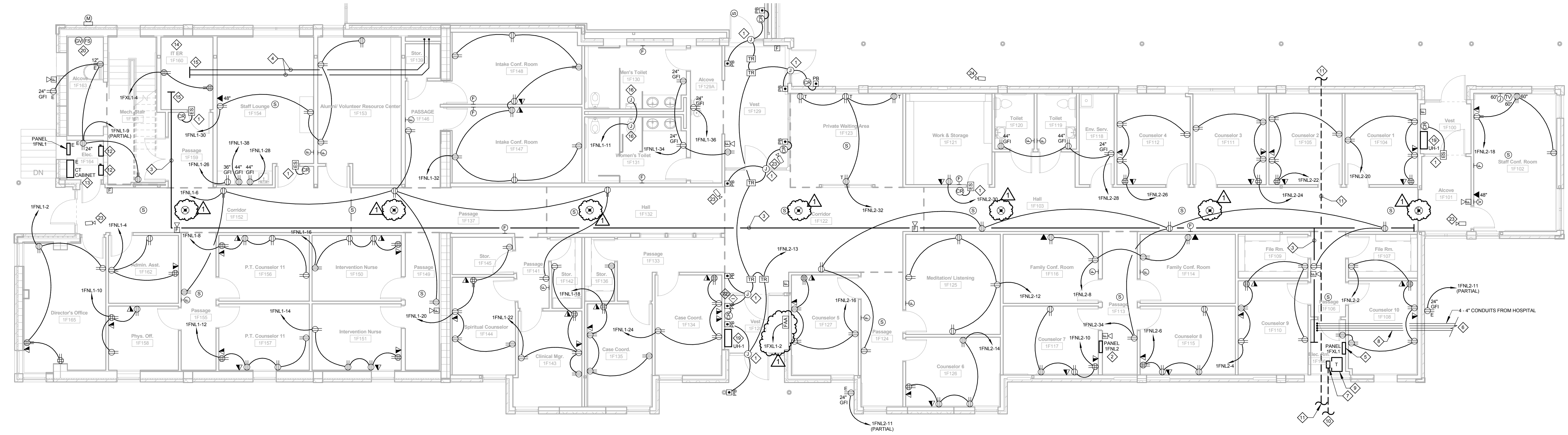
JOB #	11-0101
ISSUE DATE	03/05/13
Revisions	
ID	Change Description
1	03/21/2013 Addendum #2

Checked By: [Signature]
Drawn By: [Signature]
SHEET TITLE
Basement
Level Power
and Systems
Plan - Area G
SHEET NUMBER
E2-0G

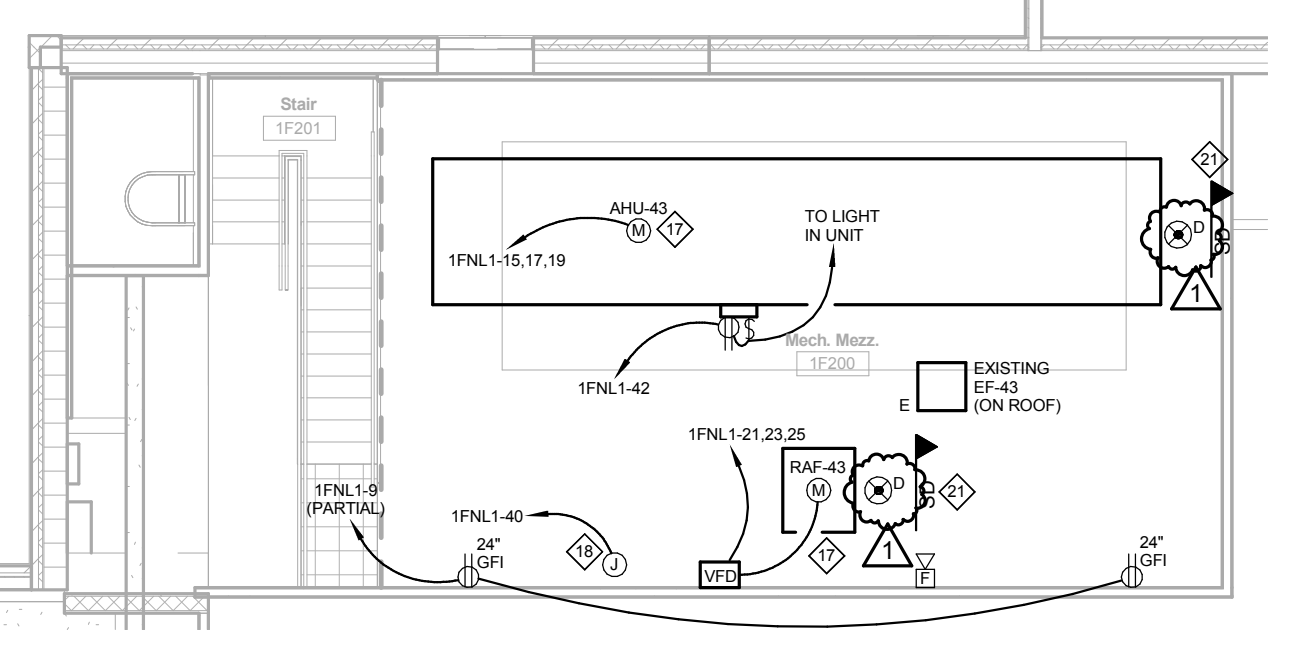


GENERAL POWER AND SYSTEMS NOTES

- SEE E1 SERIES SHEETS FOR COMPLETE LIGHTING PLAN.
- SEE SHEET E1-1 FOR SYMBOL LEGEND, ELECTRICAL RISER DIAGRAM, MECHANICAL EQUIPMENT CONNECTION SCHEDULE, & PANEL SCHEDULES.
- SEE E5 SERIES SHEETS FOR POWER INSTALLATION AND GENERAL DETAILS.
- ALL DEVICES SHOWN SHALL BE MOUNTED AT 18" A.F.F. UNLESS INDICATED OTHERWISE.
- ALL PHONO DATA JACKS SHOWN SHALL BE ROUGH-IN BOXES AND STUB UP CONDUITS EXTENDED TO WITHIN 6" OF HIGHEST CABLE TRAY IN CORRIDOR. PROVIDE PULL STRING AND PLASTIC BUSHING AT CONDUIT END. PHONO DATA WIRING BY OTHERS. ALL BOXES SHALL HAVE BOX SUPPORTS.
- SEE ARCHITECTURAL SHEETS FOR ARCHITECTURAL ELEVATIONS AND MORE PRECISE LOCATIONS OF ALL ELECTRICAL GEAR.
- SYSTEM FURNITURE IS NOT PROVIDED AS PART OF THIS CONTRACT. ELECTRICAL CONTRACTOR SHALL VERIFY ALL LOCATIONS OF SYSTEM FURNITURE AND REQUIRED ELECTRICAL EQUIPMENT WITH OWNER PROVIDED DIMENSIONS IN ORDER TO IDENTIFY CONFLICTS WITH SYSTEM FURNITURE WALL MOUNTS, EMBOSSES, AND TO IDENTIFY ANY UNIQUE SYSTEMS FURNITURE POWER, LIGHTING, AND DATA REQUIREMENTS.
- ALL ELECTRICAL DEVICES ARE TO BE COORDINATED WITH FURNITURE INSTALLATION PRIOR TO ROUGH-IN TO AVOID ANY CONFLICTS WITH FURNITURE SYSTEM PANELS.
- ALL CIRCUITS SHALL HAVE SEPARATE NEUTRAL WIRES BUT CAN SHARE AN INSULATED GREEN GROUND WIRE NOT SHOWN IN MANUAL 3/4" EMT CONDUIT WITH STEEL COMPRESSION FITTINGS UNLESS INDICATED OTHERWISE. (TYPICAL) AC, MC OR BX CABLE SHALL NOT BE USED.
- NO BOXES SHALL BE MOUNTED BACK TO BACK.
- ALL WIRES AND CONDUIT SHALL BE CONCEALED IN ROOMS UNLESS INDICATED BY NOTES HEREON OR WRITTEN APPROVAL OF THE ENGINEER/ARCHITECT. FOR WORKS LOCATED IN MECHANICAL, ELEVATOR EQUIPMENT, ELECTRICAL, AND IT ROOMS.
- COORDINATE ALL POWER LOCATIONS FOR EQUIPMENT WITH EQUIPMENT THAT IS SUPPLIED AND WITH ALL TRADES.
- FOR 120VOLT POWER CIRCUITS WHERE CIRCUIT LENGTH EXCEEDS 75 FEET & WIRING SHALL BE USED WHERE CIRCUIT EXCEEDS 125 FEET. BRAVIA SHALL BE USED FOR FIRST 75 FEET. (MAY SEE EQUIPMENT SCHEDULE FOR WIRING REQUIREMENTS FOR MECHANICAL EQUIPMENT)
- ALL BACKWAYS ROUTED THROUGH WALLS SHALL BE SEALED AS REQUIRED BY AND IN ACCORDANCE WITH THE PARAGRAPHS 208 & 305.03 AND 305.2A.
- ELECTRICAL CONTRACTOR IS TO PROVIDE A SURFACE MOUNTED JUNCTION BOX IN THE ACCESSIBLE CEILING SPACE IN THE CORRIDOR THAT IS CONNECTED TO THE NORMAL ANALYTICAL CIRCUITS SUPPLYING POWER TO EACH ROOM TO ALLOW FOR WIRE LABELING.
- CEILING MOUNTED DEVICES SHALL BE CENTERED IN CEILING TILE WHERE INSTALLED IN ACCOUTICAL TILE CEILING.
- PHOTO CHAIR READER DETAIL SHOWN ON SHEET E5-1, DETAIL & CONTRACTOR SHALL SUPPLY MATERIALS AS INDICATED ON DETAIL.
- CONTRACTOR MUST MAINTAIN FRESMOKED DETECTION DURING REMOVAL OF CEILINGING CENTER OR PROVIDE 24 HOUR SUPERVISION UNTIL NEW SYSTEM IS FULLY OPERATIONAL.
- CONTRACTOR SHALL COORDINATE ALL FIRE EQUIPMENT INSTALLATION WITH MECHANICAL INSTALLATION. SEE ARCHITECTURAL SHEETS FOR FIRE PROTECTION PLANS.
- CONTRACTOR SHALL FURNISH COMPLETE AND WORKING SYSTEMS AS SPECIFIED.
- CONTRACTOR SHALL FOLLOW ALL ADA REQUIREMENTS AND GUIDELINES.
- ALL COVER PLATES, POWER AND SPECIAL SYSTEMS SHALL MATCH IN SHADE AND COLOR THROUGH ENTIRE PROJECT.
- DOORS SHOWN TO HAVE PHOTO CARD READERS THAT ARE IN THE PATH OF EGRESS SHALL FAIL TO THE SAFE POSITION IN THE CASE OF POWER LOSS OR FIRE ALARM.
- DOORS SHOWN TO HAVE PHOTO CARD READERS THAT ARE NOT IN THE PATH OF EGRESS SHALL FAIL TO THE SECURE POSITION IN THE CASE OF POWER LOSS OR FIRE ALARM.



1 First Level Power and Systems Plan - Area F
1/8" = 1'-0"



2 Mezz. Level Power and Systems Plan - Area F
1/8" = 1'-0"

KEYED POWER AND SYSTEMS NOTES

- ◇ PHOTO CHAIR READER BOX, ELECTRIC STRIKE BOX, AND CONDUITS BY ELECTRICAL CONTRACTOR. PHOTO CHAIR READER SUPPLIED AND INSTALLED BY OWNER. SEE DETAIL SHEET E5-1 FOR COMPLETE INSTALLATION INFORMATION. CABLEING WILL NEED TO BE PULLED TO THE MECHANICAL ROOM 1F103.
- ◇ RELOCATE EXISTING PANEL #8 TO THIS LOCATION. ELECTRICAL CONTRACTOR IS TO PROVIDE ALL CONDUIT AND WIRE REQUIRED TO COMPLETE INSTALLATION. REMAIN PANELS #1, 2, 3, 4, 5, 6, 7, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63, 64, 65, 66, 67, 68, 69, 70, 71, 72, 73, 74, 75, 76, 77, 78, 79, 80, 81, 82, 83, 84, 85, 86, 87, 88, 89, 90, 91, 92, 93, 94, 95, 96, 97, 98, 99, 100. SEE POWER RISER DIAGRAM AND SCHEDULES, SHEET E5-1, FOR MORE INFORMATION.
- ◇ CABLE TRAY PATH. PROVIDE 6" WIDE X 2" DEEP CABLE TRAYS, 1" TOP ABOVE TOP OF CEILING GRID.
- ◇ 2, 4" CONDUITS INSTALLED BY ABOVE CEILING GRID, AND EXTENDED DOWN AT WALL, TO 2" ABOVE EMBOSSES FOR COORDINATE LOCATION ON WALL WITH ACCESS PANEL AND CONDUITS ROUTED THROUGH WALL AS SHOWN ON SHEET E5-1. PROVIDE ALL CIRCUIT BREAKERS, WIRING, AND CONDUIT REQUIRED TO COMPLETE INSTALLATION.
- ◇ EXISTING PANEL #11 IS TO BE RELOCATED TO THIS LOCATION AND RELABELLED AS 1FNL-1. PROVIDE ALL CIRCUIT BREAKERS, WIRING, AND CONDUIT REQUIRED TO COMPLETE INSTALLATION.
- ◇ SEE SHEET C1-3 FOR CONDUIT CONTINUATION.
- ◇ 60A DISCONNECT SWITCH FOR PANEL 1FNL-1. SEE ELECTRICAL ONE-LINE DIAGRAM, SHEET E5-1, FOR ADDITIONAL INFORMATION.
- ◇ STUB CONDUITS UP WALL AND EXTEND TO 8" AFF. LABEL EACH CONDUIT "COMMUNICATION FROM HOSPITAL".
- ◇ 300VA STEP DOWN TRANSFORMER 480V INPUT, 120/208V SECONDARY OUTPUT.
- ◇ 1 1/2" CONDUIT FOR EMERGENCY POWER, FEEDER FROM EMERGENCY PANEL 15H1 LOCATED IN ENERGY PLANT. SEE SHEETS C1-3 AND E5-1 FOR MORE INFORMATION.
- ◇ CONDUIT FOR EMERGENCY POWER, FEEDER FROM EMERGENCY PANEL 15H1 LOCATED IN ENERGY PLANT. CONDUIT TO BE ROUTED BELOW FLOOR AS SHOWN. SEE SHEET C1-3 FOR CONDUIT CONTINUATION. SEE SHEETS C1-3 AND E5-1 FOR MORE INFORMATION.
- ◇ EXISTING 225 AMP DISCONNECT SWITCH TO REMAIN.
- ◇ EXISTING CT CABINET TO REMAIN.
- ◇ PASTEL 5/8" BEAM RETAINMENT PL WINGS FROM FLOOR TO 8" ABOVE FINISH FLOOR WITH 3 COATS OF ENAMEL PAINT. COLOR TO MATCH ROOM FINISH. PROVIDE EXTENSION WINGS ON ALL ELECTRICAL BOXES SO DEVICES ARE FLUSH WITH PL WOOD.
- ◇ CABLE TRAY OR CONDUIT SHALL EXTEND 8" IF ROOM SO IT IS NO LESS THAN 2" FROM THE WALL THROUGH WHICH IT IS ROUTED.
- ◇ J BOXES ARE FOR FLUSH VALVE POWER. COORDINATE EXACT J BOX LOCATIONS WITH MECHANICAL PRIOR TO ROUGH-IN.
- ◇ SEE MECHANICAL EQUIPMENT SCHEDULE, SHEET E5-1 FOR ALL MECHANICAL EQUIPMENT CONNECTION INFORMATION.
- ◇ PROVIDE 4" SQUARE BOX WITH DESIGNATED 120V CIRCUIT FOR TEMPERATURE CONTROL. TAG WIRE WITH PANEL AND CIRCUIT NUMBER.
- ◇ EXISTING UNIT HEATER IS TO REMAIN. EXISTING CIRCUITS TO ALSO TO REMAIN UNLESS POSSIBLE. EXTEND CONDUIT AND WIRE AS REQUIRED TO NEW PANEL LOCATIONS.
- ◇ PROVIDE MONITORING MEANS FOR GATE VALVE AND FLOW SWITCH FROM NEW FIRE ALARM SYSTEM AS REQUIRED BY CODE.
- ◇ FIRE SMOKE DAMPER IS CONTROLLED BY AHJ-43 AND POWERED BY 208, 1P, 0P IN EMERGENCY PANEL 15H1. SEE DETAIL SHEET E5-1 FOR CONNECTION INFORMATION. ALL FIRE SMOKE DAMPERS CONTROLLED BY AHJ-43 ARE TO BE CIRCUITED TO SAME CIRCUIT.
- ◇ ALL WIRE INTERCOM STATIONS WILL REQUIRE A WALL MOUNTED 4 SQUARE BOX WITH 3/4" CONDUIT TUBING AND HANGERS ACCESSIBLE CEILING SPACE. ALL EQUIPMENT AND CABLEING WILL BE PROVIDED BY OWNER.
- ◇ ALL INTERCOM SECURITY CAMERA LOCATIONS ARE TO BE HANG BY CEILING TILES AND WILL NOT REQUIRE ROUGH-IN BOXES. ALL MOUNTING HARDWARE, EQUIPMENT AND CABLEING WILL BE PROVIDED BY OWNER.
- ◇ ALL EXTERIOR SECURITY CAMERAS WILL REQUIRE A 4 SQUARE BOX WITH A 3/4" CONDUIT TUBING TO HANGERS ACCESSIBLE CEILING. ALL MOUNTING HARDWARE, EQUIPMENT AND CABLEING WILL BE PROVIDED BY OWNER.

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BryanLGH West Medical Center

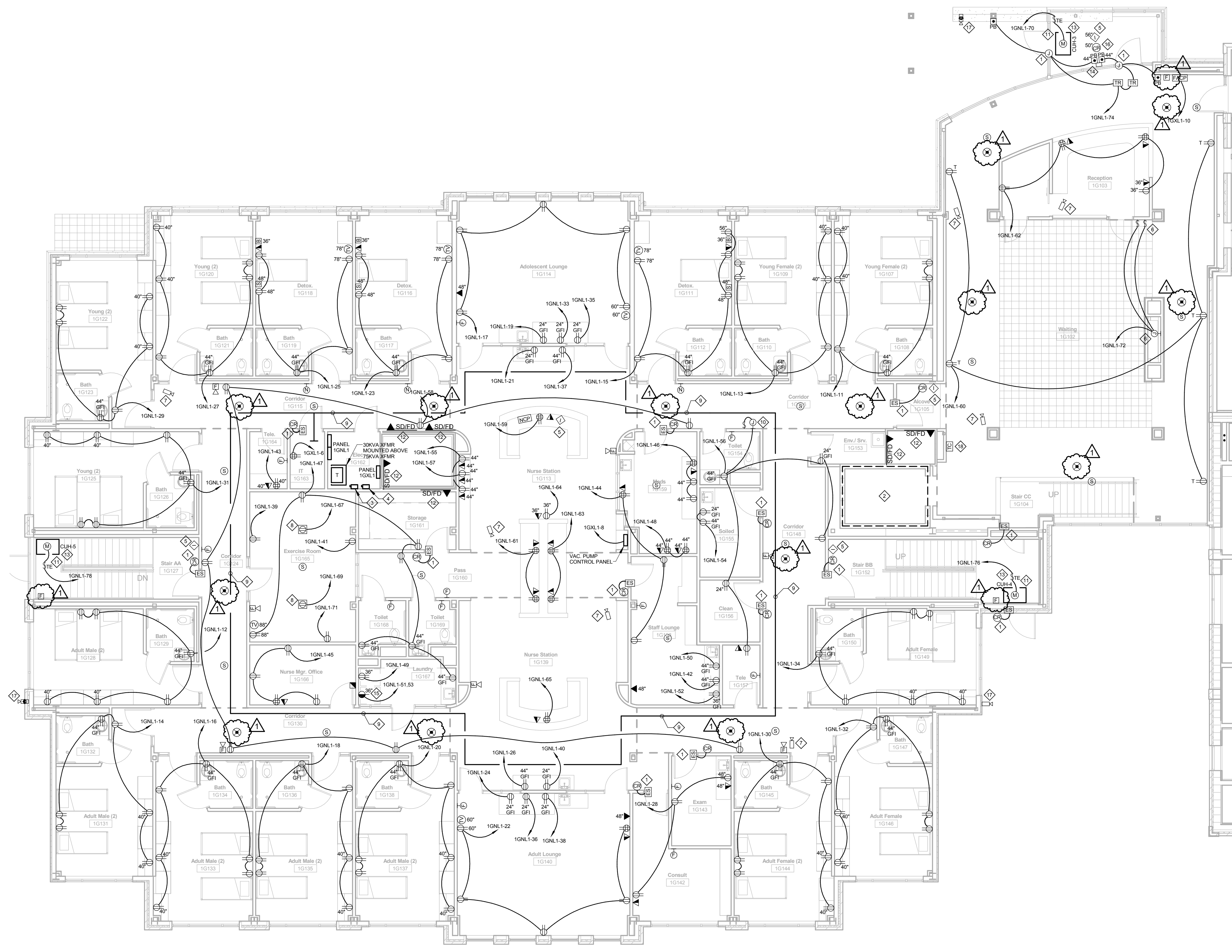
PROJECT INFORMATION
Independence Center
 Lincoln, NE

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Revisions		
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1	03/21/2013	Addendum #2

Checked By: Date:

SHEET TITLE
First Level Power and Systems Plan - Area F

SHEET NUMBER
E2-1F



1 First Level Power and Systems Plan - Area G
1/8" = 1'-0"

GENERAL POWER AND SYSTEMS NOTES

- SEE E1 SERIES SHEETS FOR COMPLETE LIGHTING PLAN.
- SEE SHEET E1 FOR SYMBOL LEGEND, ELECTRICAL RISER DIAGRAM, MECHANICAL EQUIPMENT CONNECTION SCHEDULE, & PANEL SCHEDULES.
- SEE E5 SERIES SHEETS FOR POWER INSTALLATION AND GENERAL DETAILS.
- ALL DEVICES SHOWN SHALL BE MOUNTED AT 18" A.F.F. UNLESS INDICATED OTHERWISE.
- ALL PHONE/DATA JACKS SHOWN SHALL BE ROUGH IN BOXES AND STUB UP CONDUIT EXTENDED TO WITHIN 4" OF NEAREST CABLE TRAY IN CORRIDOR. PROVIDE PULL STRING AND PLASTIC BUSHING AT CONDUIT END. PHONE/DATA WIRING BY OTHERS. ALL BOXES SHALL HAVE BOX SUPPORTS.
- SEE ARCHITECTURAL SHEETS FOR ARCHITECTURAL ELEVATIONS AND MORE PRECISE LOCATIONS OF ALL ELECTRICAL GEAR.
- SYSTEM FURNITURE IS NOT PROVIDED AS PART OF THIS CONTRACT. ELECTRICAL CONTRACTOR SHALL VERIFY ALL LOCATIONS OF SYSTEM FURNITURE AND REQUIRED ELECTRICAL EQUIPMENT WITH OWNER PROVIDED SHEET DRAWINGS IN ORDER TO ACCURATELY LOCATE SYSTEM FURNITURE. WALL MOUNTED EQUIPMENT AND TO IDENTIFY ANY UNIQUE SYSTEMS FURNITURE, POWER, LIGHTING, AND DATA REQUIREMENTS.
- ALL ELECTRICAL DEVICES ARE TO BE COORDINATED WITH FURNITURE INSTALLATION PRIOR TO ROUGH-IN TO AVOID ANY CONFLICTS WITH FURNITURE SYSTEM PANELS.
- ALL CIRCUITS SHALL HAVE SEPARATE NEUTRAL WIRES BUT CAN SHARE AN INSULATED GREEN GROUND WIRE NOT SHOWN IN WIRING 3/4" EMT CONDUIT WITH STEEL COMPRESSION FITTINGS UNLESS INDICATED OTHERWISE. (TYPICAL) AC, MC OR BX CABLE SHALL NOT BE USED.
- NO BOXES SHALL BE MOUNTED BACK TO BACK.
- ALL WIRING AND CONDUIT SHALL BE CONCEALED IN ROOMS UNLESS INDICATED BY NOTES OR WRITTEN APPROVAL OF THE ENGINEER OR ARCHITECT. IF WIRING LOCATED IN MECHANICAL, ELEVATOR EQUIPMENT, ELECTRICAL, AND IT ROOMS.
- COORDINATE ALL POWER LOCATIONS FOR EQUIPMENT WITH EQUIPMENT THAT IS SUPPLIED AND WITH ALL TRADES.
- FOR 120 VOLT POWER CIRCUITS WHERE CIRCUIT LENGTH EXCEEDS 75 FEET, WIRING SHALL BE USED WHERE CIRCUIT EXCEEDS 125 FEET. BRAVIA SHALL BE USED FOR FIRST 75 FEET. (MAY SEE EQUIPMENT SCHEDULE FOR WIRING REQUIREMENTS FOR MECHANICAL EQUIPMENT.)
- ALL BACKWAYS ROUTED THROUGH WALLS SHALL BE SEALED AS REQUIRED BY AND IN ACCORDANCE WITH THE MANUFACTURER'S 2008 (60) AND 300 (34)'. ELECTRICAL CONTRACTOR IS TO PROVIDE A SURFACE MOUNTED JUNCTION BOX IN THE ACCESSIBLE CEILING SPACE IN THE CORRIDOR THAT IS CONNECTED TO THE NORMAL ANALYTICAL CIRCUITS SUPPLYING POWER TO EACH ROOM TO ALLOW FOR WIRE CHANGES.
- CEILING MOUNTED DEVICES SHALL BE CENTERED IN CEILING TILE WHERE INSTALLED IN ACCESSIBLE CEILING.
- PROVIDE CARD READERS DETAIL SHOWN ON SHEET ES-1, DETAIL & CONTRACTOR SHALL SUPPLY MATERIALS AS INDICATED ON DETAIL.
- CONTRACTOR MUST MAINTAIN FIRE/SMOKE DETECTION DURING REMOVAL OF CEILING/ACCESSIBLE CEILING OR PROVIDE 24 HOUR SUPERVISION UNTIL NEW SYSTEM IS FULLY OPERATIONAL.
- CONTRACTOR SHALL COORDINATE ALL FIRE EQUIPMENT INSTALLATION WITH MECHANICAL INSTALLATION. SEE ARCHITECTURAL SHEETS FOR FIRE PROTECTION PLANS.
- CONTRACTOR SHALL FURNISH COMPLETE AND WORKING SYSTEMS AS SPECIFIED.
- CONTRACTOR SHALL FOLLOW ALL ADA REQUIREMENTS AND GUIDELINES.
- ALL COVER PLATES, POWER AND SPECIAL SYSTEMS SHALL MATCH IN SHADE AND COLOR THROUGHOUT ENTIRE PROJECT.
- DOORS SHOWN TO HAVE PROX CARD READERS THAT ARE IN THE PATH OF ACCESS SHALL FAIL TO THE SAFE POSITION IN THE CASE OF POWER LOSS OR FIRE ALARM.
- DOORS SHOWN TO HAVE PROX CARD READERS THAT ARE NOT IN THE PATH OF ACCESS SHALL FAIL TO THE SECURE POSITION IN THE CASE OF POWER LOSS OR FIRE ALARM.

KEYED POWER AND SYSTEMS NOTES

- CARD READER BOX, ELECTRIC STRIKE BOX, AND CONDUITS BY ELECTRICAL CONTRACTOR. CARD READER SUPPLIED AND INSTALLED BY OWNER. SEE DETAIL SHEET E1 FOR COMPLETE INSTALLATION INFORMATION. CABLES WILL NEED TO BE PULLED TO THE SECURITY ROOM 10117 IN THE LOWER LEVEL.
- SEE DETAIL SHEET E2 FOR ELECTRICAL REQUIREMENTS IN ELEVATOR EQUIPMENT ROOMS, ELEVATOR PIT, AND HOISTWAYS.
- DISCONNECT SWITCH FOR PANEL 10N1.1. SEE RISER DIAGRAM SHEET E5-1 FOR COMPLETE INFORMATION.
- ALL VEHICULAR STATIONS WILL REQUIRE A WALL MOUNTED 4 SQUARE BOX WITH 3/4" CONDUIT STUBBED INTO NEAREST ACCESSIBLE CEILING SPACE. ALL EQUIPMENT AND CABLES WILL BE PROVIDED BY OWNER.
- J-BOX AND SWITCHES ARE TO CONNECT TO GAS FREE PLACE. COORDINATE EXACT EXISTING J-BOX MOUNTING LOCATION AND SWITCH TO POWER TWO (2) SOL ENDS TO SHUT OFF HOT AND COLD WATER IN TOILET 10154. COORDINATE SWITCH AND J-BOX LOCATION WITH MECHANICAL PRIOR TO ROUGH-IN.
- ALL INTERIOR SECURITY CAMERA LOCATIONS ARE TO BE HUNG BY CEILING TILES AND WILL NOT REQUIRE ROUGH IN BOXES. ALL MOUNTING HARDWARE, EQUIPMENT AND CABLES WILL BE PROVIDED BY OWNER.
- FLOOR MOUNTED RECEPTACLES ARE TO BE USED FOR EXISTING EQUIPMENT. COORDINATE LOCATIONS WITH OWNER PRIOR TO ROUGH-IN.
- PROVIDE 1" WIDE, 2" DEEP WIRE MESH CABLE TRAY IN ACCESSIBLE CEILING SPACE. COORDINATE THROUGH CEILING WITH MECHANICAL AND ELECTRICAL DEVICES AND DUCTWORK.
- PROVIDE J-BOX ABOVE CEILING AND SWITCH TO POWER TWO (2) SOL ENDS TO SHUT OFF HOT AND COLD WATER IN TOILET 10154. COORDINATE SWITCH AND J-BOX LOCATION WITH MECHANICAL PRIOR TO ROUGH-IN.
- CABINET UNIT HEATER. COORDINATE EXACT MOUNTING LOCATION WITH MECHANICAL PRIOR TO ROUGH-IN. SEE MECHANICAL EQUIPMENT SCHEDULE, SHEET E5-1 FOR CONNECTION INFORMATION.
- FIRE SMOKE DAMPER IS CONTROLLED BY AHJ42 AND POWERED BY 20A, 1P, CB IN EMERGENCY PANEL 10N1.1. SEE DETAIL SHEET E1 FOR CONNECTION INFORMATION. ALL FIRE/SMOKE DAMPERS CONTROLLED BY AHJ42 ARE TO BE CIRCUITED TO SAME CIRCUIT.
- SEE MECHANICAL EQUIPMENT SCHEDULE, SHEET E5-1 FOR ALL MECHANICAL EQUIPMENT CONNECTION INFORMATION.
- CUSTOM PRECAST IS TO BE PROVIDED TO MOUNT DOOR PUSHBUTTONS @ 48" AFF. CARD READER @ 48" AFF. AND INTERCOM STATION @ 48" AFF. SEE ARCHITECTURAL DETAILS FOR PRECAST LOCATION AND INFORMATION.
- COORDINATE WITH CLOTHES DRYER MANUFACTURER FOR RECEPTACLE CONFIGURATION REQUIRED.
- INNER VESTIBULE DOOR IS TO BE LOCKED DURING EVENING HOURS. WHEN DOOR IS LOCKED, PUSHBUTTON ON PRECAST IS TO BE DISABLED SO AS NOT TO BUMP OUT DOOR OPERATOR MOTOR.
- ALL EXTERIOR SECURITY CAMERAS WILL REQUIRE A 4 SQUARE BOX WITH A 3/4" CONDUIT STUBBED TO NEAREST ACCESSIBLE CEILING. ALL MOUNTING HARDWARE, EQUIPMENT AND CABLES WILL BE PROVIDED BY OWNER.
- TOILET LOCK PROVIDED AND INSTALLED BY OWNER. PROVIDE ROUGH-IN BOX AND 3/4" CONDUIT FROM BOX STUBBED INTO ACCESSIBLE CEILING SPACE. COORDINATE WITH OWNER FOR ADDITIONAL ROUGH-IN REQUIREMENTS.

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CLIENT INFORMATION
BryanLGH West Medical Center

PROJECT INFORMATION
Independence Center
 Lincoln, NE

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ID	Date	Revisions	Description
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 DRAWN BY:
 DATE: 03/05/13
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SHEET TITLE
First Level Power and Systems Plan - Area G

SHEET NUMBER
E2-1G