

**DOCUMENT 00 90 00
ADDENDUM**

ADDENDUM NO. [1] Date: March 18, 2020

**RE: LA CRESCENT - HOKAH PUBLIC SCHOOLS
MIDDLE & HIGH SCHOOL ADDITION AND RENOVATION
1301 LANCER BLVD
LA CRESCENT, MN 55947
HSR 19014**

**FROM: HSR Associates, Inc
100 Milwaukee Street
La Crosse, WI 54603
(608) 784-1830**

To: Prospective Bidders

This addendum forms a part of the Contract Documents and modifies the original Bidding Documents dated March 2020. Acknowledge receipt of this Addendum in the space provided on the bid form. Failure to do so may subject the Bidder to disqualification.

This Addendum consists of [8] pages, Pre-bid attendance, [1] specification sections, and [51] 30 x 42 drawings.

CHANGES TO BIDDING REQUIREMENTS AND CONDITIONS OF THE CONTRACT:

1. Pre-bid attendance attached hereto

CHANGES TO SPECIFICATIONS:

2. Section 07 21 00 THERMAL INSULATION
 - a. 2.02: Add Item C as follows:
 - C. Under slab in-floor heat insulation.
 1. Extruded Polystyrene Board Insulation, Type VI 40 psi, 2 inch nominal thickness. R-value 10 minimum.
 2. Contractor's option:
 - a. Crete-Heat Insulated Floor Panel Systems: www.crete-heat.com.
 - b. EZ Floor, Inc: www.ezfloor.com
3. Section 08 43 13 ALUMINUM FRAMED STOREFRONTS
 - a. 1.08, B: Change "two" to "one".
4. Section 08 71 00 DOOR HARDWARE
 - a. 2.03, A: Delete "Electronic Locks AD400 Series" and add "Electronic Locks NDE Series".

b. The following Groups have been revised or added:
HARDWARE GROUP 1: Delete door 11.1.

(New) HARDWARE GROUP 1.1
EACH SINGLE FIRE PROTECTIVE DOOR TO HAVE:
DR. 11.1

1 EA CONTINUOUS HINGE	BY FIRE PROTECTIVE SUPPLIER	
1 EA STORERM LOCK	ND80RD SPA 626	SCHLAGE
1 EA CLOSER	4040XP REG 689	LCN
1 EA ELECTRIC STRIKE	6211 US32D	VONDUPRIN
1 EA KICKPLATE	10 X 2LDW B4E CS US32D	ROCKWOOD
1 EA SURFACE OHS	900S 652	GLYNN JOHN
1 EA GASKET	F797B17	REESE
1 EA POWER SUPPLY	BY ACCESS CONTROL VENDOR	
1 EA DPS	BY ACCESS CONTROL VENDOR	
1 EA CARD READER	BY ACCESS CONTROL VENDOR	

DOOR TO BE LOCKED AT ALL TIMES UNLESS UNLOCKED BY ACCESS CONTROL SYSTEM AT VARIOUS TIMES. WHILE IN LOCKED MODE ACCESS BY CARD READER. PROVIDE PROPER MOUNTING HARDWARE FOR 2-1/2" THICK DOOR

HARDWARE GROUP 2
EACH SINGLE DOOR TO HAVE:
DR. 11A.1

3 EA BUTTS	FBB179 4.5 X 4.5 652 NRP	STANLEY
1 EA WIRELESS LOCKS	NDE80RD SPA 626	SCHLAGE
1 EA KICKPLATE	10 X 2LDW B4E CS US32D	ROCKWOOD
1 EA SURFACE OHS	450S 652	GLYNN JOHN
1 EA GASKET	F797B17	REESE

(New) HARDWARE GROUP 20A
EACH SINGLE DOOR TO HAVE:
DR. 31, 34, 35.1, 36

3 EA BUTTS	FBB168 4.5 X 4.5 652 NRP	STANLEY
1 EA WIRELESS LOCKS	NDE80RD SPA 626	SCHLAGE
1 EA KICKPLATE	10 X 2LDW B4E CS US32D	ROCKWOOD
1 EA SURFACE OHS	450S 652	GLYNN JOHNSON
3 EA SILENCERS	608RKW GREY	ROCKWOOD

**(New) HARDWARE GROUP 21A
EACH SINGLE DOOR TO HAVE:
DR. 1, 30.1, 70, 72.1,**

3 EA BUTTS	FBB179 4.5 X 4.5 652	STANLEY
1 EA WIRELESS LOCKS	NDE80RD SPA 626	SCHLAGE
1 EA KICKPLATE	10 X 2LDW B4E CS US32D	ROCKWOOD
1 EA WALL STOP	409 US32D	ROCKWOOD
3 EA SILENCERS	608RKW GREY	ROCKWOOD

**(New) HARDWARE GROUP 22A
EACH SINGLE DOOR TO HAVE:
DR, 50.1,**

3 EA BUTTS	FBB168 4.5 X 4.5 652	STANLEY
1 EA WIRELESS LOCKS	NDE80RD SPA 626	SCHLAGE
1 EA KICKPLATE	10 X 2LDW B4E CS US32D	ROCKWOOD
1 EA SURFACE OHS	450S 652	GLYNN JOHNSON
3 EA SILENCERS	608RKW GREY	ROCKWOOD

**(New) HARDWARE GROUP 38
MISC:**

2 PKG (50) FOBS	9651T	SCHLAGE
1 EA ENROLLMENT READER	MT20	SCHLAGE
1 EA ENGAGE SOFTWARE	ENGAGE (NO CHARGE)	SCHLAGE

5. Section 10 56 26 MOBILE STORAGE SHELVING
 - a. Section attached hereto as part of Contract Documents.

6. Section 23 09 14 ELECTRIC INSTRUMENTATION AND CONTROL DEVICES FOR HVAC
 - a. 1.08 BIDDING, A: Replace Item A with the following;
Section 23 09 14 Electric Instrumentations and Controls Devices for HVAC, 23 09 23 Direct Digital Control System for HVAC and 23 09 93 Sequence of Operation shall be bid directly to the General Contractor and not to Mechanical Contractor.

7. Section 23 09 23 DIRECT DIGITAL CONTROL SYSTEM FOR HVAC
 - a. 1.08 BIDDING, A: Replace Item A with the following;
Section 23 09 14 Electric Instrumentations and Controls Devices for HVAC, 23 09 23 Direct Digital Control System for HVAC and 23 09 93 Sequence of Operation shall be bid directly to the General Contractor and not to Mechanical Contractor.
 - b. 2.01, A: Delete Paragraph 1 and 2.
 - c. 2.13, A: Delete paragraph 3

8. Section 23 09 93 SEQUENCE OF OPERATIONS

- a. 1.08 BIDDING, A: Replace Item A with the following;
Section 23 09 14 Electric Instrumentations and Controls Devices for HVAC, 23 09 23 Direct Digital Control System for HVAC and 23 09 93 Sequence of Operation shall be bid directly to the General Contractor and not to Mechanical Contractor.

CHANGES TO DRAWINGS

9. Sheet G000 COVER SHEET
 - a. Add sheet A505 and A506.
10. Sheet C101 LAYOUT PLAN 30 x 42 attached hereto
 - a. Revisions clouded on Drawing.
 - b. Revision to pavement mix at 1C101.
11. Sheet C102 GRADING PLAN 30 x 42 attached hereto
 - a. Revisions clouded on Drawing.
 - b. Revision to catch basin rim elevation at East Plaza Entrance.
12. Sheet C103 EROSION CONTROL PLAN 30 x 42 attached hereto
 - a. Revisions clouded on Drawing.
 - b. Revision at East Plaza Entrance catch basin.
13. Sheet C104 UTILITY PLAN 30 x 42 attached hereto
 - a. Revisions clouded on Drawing.
 - b. Revision at East Plaza Entrance catch basin
14. Sheet A091 FIRST FLOOR REMOVAL PLAN AREA A 30 x 42 attached hereto
 - a. Revisions clouded on Drawing.
 - b. Ceiling removal scope revisions.
15. Sheet A101 FIRST FLOOR PLAN AREA A 30 x 42 attached hereto
 - a. Revisions clouded on Drawing.
 - b. Under floor insulation extents at heated slab area.
 - c. Wall Type D4 added to north wall of Work 11F.
16. Sheet A104 FIRST FLOOR PLAN AREA D 30 x 42 attached hereto
 - a. Revisions clouded on Drawing.
 - b. Enclosure for fire department connection.
17. Sheet A110 GENERAL REFLECTED CEILING PLAN 30 x 42 attached hereto
 - a. Revisions clouded on Drawing.
 - b. Ceiling scope revisions identified.
18. Sheet A111 REFLECTED CEILING PLAN AREA A 30 x 42 attached hereto
 - a. Revisions clouded on Drawing.
 - b. Ceiling scope revisions identified.
19. Sheet A113 REFLECTED CEILING PLAN AREA C 30 x 42 attached hereto
 - a. Revisions clouded on Drawing.
 - b. Ceiling scope revisions identified.
20. Sheet A114 REFLECTED CEILING PLAN AREA D 30 x 42 attached hereto
 - a. Revisions clouded on Drawing.
 - b. Ceiling height lowered to 8'-6" at 101D, 101O and 101S
21. Sheet A120 ROOF PLAN 30 x 42 attached hereto
 - a. Revisions clouded on Drawing.
 - b. Additional roof top equipment shown.

22. Sheet A214 CASEWORK DETAILS 30 x 42 attached hereto
 - a. Revisions clouded on Drawing.
23. Sheet A310 WALL SECTIONS 30 x 42 attached hereto
 - a. Revisions clouded on Drawing.
 - b. Under floor insulation shown at heated slab.
24. Sheet A501 DETAILS 30 x 42 attached hereto
 - a. Revisions clouded on Drawing.
 - b. Under floor insulation shown at heated slab.
25. Sheet A503 DETAILS 30 x 42 attached hereto
 - a. Revisions clouded on Drawing.
 - b. Details 16 thru 19 added.
26. Sheet A505 DETAILS 30 x 42 attached hereto
 - a. Drawing added as part of Contract Documents.
27. Sheet A506 DETAILS 30 x 42 attached hereto
 - a. Drawing added as part of Contract Documents
28. Sheet A601 DOOR SCHEDULE 30 x 42 attached hereto
 - a. Revisions clouded on Drawing.
 - b. Detail reference and hardware group revisions at doors listed and clouded.
29. Sheet ID103 FIRST FLOOR FINISH PLAN AREA D 30 x 42 attached hereto
 - a. Revisions clouded on Drawing.
 - b. Corner guard added in Corridor 101S.
30. Sheet S002 STRUCTURAL SCHEDULES 30 x 42 attached hereto
 - a. Revisions clouded on Drawing.
31. Sheet S100 FOUNDATION PLAN AREA A 30 x 42 attached hereto
 - a. Revisions clouded on Drawing
 - b. Slab construction, reinforcing and underfloor insulation revision.
32. Sheet S101 FOUNDATION PLAN AREA D 30 x 42 attached hereto
 - a. Revisions clouded on Drawing.
 - b. Foundation revision.
 - c. Delete reference to insulation fill at Note 8.
33. Sheet S200 LOW ROOF FRAMING PLAN AREA A 30 x 42 attached hereto
 - a. Revisions clouded on Drawing.
 - b. New lintels at concession closet.
34. Sheet S201 ROOF FRAMING PLAN AREA D 30 x 42 attached hereto
 - a. Revisions clouded on Drawing.
 - b. Framing for roof top support.
35. Sheet P000 SYMBOLS, ABBREVIATIONS & SCHEDULES – PLUMBING 30 x 42 attached hereto
 - a. Revisions clouded on Drawing
 - b. Add gas outlet GO-1 and washing machine connection WM-1 to Plumbing Fixture Schedule, as shown.
 - c. Revise fixtures S-1, S-2, S-3, and WF-1 models on Plumbing Fixture Schedule, as shown.
36. Sheet P091 UNDERFLOOR REMOVAL PLAN – PLUMBING – AREA A 30 x 42 attached hereto
 - a. Revisions clouded on Drawing
 - b. Add demolition note, as shown.

37. Sheet P093 UNDERFLOOR REMOVAL PLAN – PLUMBING – AREA B & C 30 x 42 attached hereto
- Revisions clouded on Drawing.
 - Add demolition note, as shown.
 - Revise sanitary demolition, as shown.
 - Add Alt Bid notations, as shown.
38. Sheet P096 FIRST FLOOR REMOVAL PLAN – PLUMBING – AREA B & C 30 x 42 attached hereto
- Revisions clouded on Drawing.
 - Add demolition note, as shown.
 - Add sink demolition, as shown.
 - Add Alt Bid notations, as shown.
39. Sheet P101 UNDERFLOOR PLAN – PLUMBING – AREA A 30 x 42 attached hereto
- Revisions clouded on Drawing.
 - Revise sanitary and storm drain routing, as shown.
40. Sheet P103 UNDERFLOOR PLAN – PLUMBING – AREA B & C 30 x 42 attached hereto
- Revisions clouded on Drawing
 - Add Alt Bid notations, as shown.
 - Remove waste to spray booth, as shown.
41. Sheet P104 UNDERFLOOR PLAN – PLUMBING – AREA D 30 x 42 attached hereto
- Revisions clouded on Drawing.
 - Add sanitary waste and vent for floor drains, as shown.
42. Sheet P106 FIRST FLOOR PLAN – PLUMBING – AREA A 30 x 42 attached hereto
- Revisions clouded on Drawing
 - Revise storm drain routing, as shown.
 - Revise vent routing, as shown.
 - Add connections to coffee area, as shown.
 - Add floor cleanout label, as shown.
43. Sheet P107 FIRST FLOOR PLAN – PLUMBING – AREA B & C 30 x 42 attached hereto
- Revisions clouded on Drawing.
 - Add Alt Bid notations, as shown.
 - Remove piping to spray booth, as shown.
 - Add note for pipe continuation, as shown.
44. Sheet P108 FIRST FLOOR PLAN – PLUMBING – AREA D 30 x 42 attached hereto
- Revisions clouded on Drawing
 - Add venting for floor drains, as shown.
 - Add note for pipe continuation, as shown.
45. Sheet P900 DETAILS – PLUMBING 30 x 42 attached hereto
- Revisions clouded on Drawing
 - Revise trapeze hanger detail, as shown.
 - Add details, as shown.

46. Sheet E000 SYMBOLS, ABBREVIATIONS & DETAILS – ELECTRICAL 30 x 42 attached hereto
 - a. Revisions clouded on Drawing
 - b. Revise New Luminaire Schedule, as shown.
 - c. Revise Communications Device Schedule, as shown.
 - d. Revise Audio Enhancement Device Schedule, as shown.
47. Sheet E091P FIRST FLOOR REMOVAL PLAN – POWER & SYSTEMS – AREA A 30 x 42 attached hereto
 - a. Revisions clouded on Drawing.
 - b. Revise keyed note #6 to clarify electrical contractor scope of PV equipment relocation, as shown.
48. Sheet E094 FIRST FLOOR REMOVAL PLAN – ELECTRICAL – AREA D 30 x 42 attached hereto
 - a. Revisions clouded on Drawing
 - b. Add keyed #4 and surface mounted raceway to remain and be removed in Media Center 130, as shown.
49. Sheet E101P FIRST FLOOR PLAN – POWER & SYSTEMS – AREA A 30 x 42 attached hereto
 - a. Revisions clouded on Drawing
 - b. Add motor connection P-3, as shown.
 - c. Revise power distribution at counter in Commons 101M, as shown.
 - d. Add keyed note #3 to clarify installation of surface mounted raceway, as shown.
 - e. Add view 2/E101P and motor connections HCP-1, HCP-2, and HCP-3, as shown.
50. Sheet E103P FIRST FLOOR PLAN – POWER & SYSTEMS – AREA B & C 30 x 42 attached hereto
 - a. Revisions clouded on Drawing
 - b. Add Audio Enhancement device connections to all classrooms, as shown.
 - c. Revise power connection callout in Art 50 to PB-2, as shown.
 - d. Add receptacle for wash fountain, as shown.
 - e. Add emergency gas shut off button to room 36, as shown.
51. Sheet E104L FIRST FLOOR PLAN – LIGHTING – AREA D 30 x 42 attached hereto
 - a. Revisions clouded on Drawing.
 - b. Add lighting and lighting control in welding booths, as shown.
52. Sheet E104P FIRST FLOOR PLAN – POWER & SYSTEMS – AREA D 30 x 42 attached hereto
 - a. Revisions clouded on Drawing.
 - b. Add Audio Enhancement device connections to all classrooms, as shown.
 - c. Add surface mounted raceway to remain in Media Center 130, as shown.
 - d. Revise locations of HVAC connections: RTU-3, RTU-4, VAV (typ) as shown.
 - e. Add HVAC connections: DC-1a, DC-1b, KX-1 – 7, PB-1, SFU-1, TCP-1, UB-1, and UH-1 – 5, as shown
 - f. Add receptacle for wash fountain, as shown.
53. Sheet E601 – NEW/EXISTING ONE-LINE DIAGRAM – ELECTRICAL 30 x 42 attached hereto
 - a. Revisions clouded on Drawing.
 - b. Revise one-line diagram service size, as shown.
54. Sheet E800 SCHEDULES – ELECTRICAL 30 x 42 attached hereto
 - a. Revisions clouded on Drawing.
 - b. Revise HVAC & Plumbing Equipment Schedule, as shown.

55. Sheet E804 PANEL SCHEDULES – ELECTRICAL 30 x 42 attached hereto
 - a. Revisions clouded on Drawing.
 - b. Revise panel schedules for Panel L-7, as shown.
56. Sheet E805 PANEL SCHEDULES – ELECTRICAL 30 x 42 attached hereto
 - a. Revisions clouded on Drawing.
 - b. Revise panel schedules for Panel ID, as shown.
57. Sheet E806 PANEL SCHEDULES – ELECTRICAL 30 x 42 attached hereto
 - a. Revisions clouded on Drawing.
 - b. Revise panel schedules for Panel L-3, as shown.
58. Sheet E808 PANEL SCHEDULES – ELECTRICAL 30 x 42 attached hereto
 - a. Revisions clouded on Drawing
 - b. Revise panel schedules for Panel L-13, as shown.
 - c. Revise panel schedules for Panel L-15, as shown.
59. Sheet E816 PANEL SCHEDULES – ELECTRICAL 30 x 42 attached hereto
 - a. Revisions clouded on Drawing
 - b. Revise panel schedules for MDP Section 3, as shown.
 - c. Add service note for sizing service based off of existing peak demand, as shown.

PRIOR APPROVALS

1. Section 04 20 00 UNIT MASONRY
 - a. 2.05, B: York 304 Adhered Flexible Stainless Steel Flashing. (This is not a substitute for stainless steel flashing specified elsewhere)
2. Section 09 67 00 FLUID APPLIED FLOORING
 - a. Ultra Durable Technologies: Ultra HTS Full Flake System

END OF DOCUMENT 00 90 00

"SIGN-IN" SHEET

PROJECT: La Crescent MS/ HS and Elementary School

HSR NO.: 19014 DATE: March 13, 2020 at 10:00 a.m.



Celebrating **65 Years** of Innovative Design
 100 Milwaukee Street 608.784.1830
 La Crosse, WI 54603 www.hsrassociates.com

PLEASE PRINT ALL INFORMATION CLEARLY

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SECTION 10 56 26
MOBILE STORAGE SHELVING

PART 1 GENERAL

1.01 SECTION INCLUDES

- A. Mechanically assisted carriage mounted high-density mobile storage units, support rails, fabrication, and installation including leveling of support rails.

1.02 RELATED REQUIREMENTS

- A. Ssection 09 67 00 - Fluid Applied Flooring: Floor finish at shelving area.

1.03 REFERENCE STANDARDS

1.04 SUBMITTALS

- A. See Section 01 30 00 - Administrative Requirements, for submittal procedures.
- B. Product Data: Submit manufacturer's data sheets on each product to be used, including:
 - 1. System components.
 - 2. Accessories.
 - 3. Substrate preparation instructions and recommendations.
 - 4. Storage and handling requirements and recommendations.
 - 5. Installation methods.
 - 6. Specimen warranty.
- C. Shop Drawings: Indicate location, type, and layout of mobile storage shelving system, including lengths, heights, and aisle layout, and relationship to adjacent construction.
 - 1. Indicate location and configuration of rails.
 - 2. Indicate method of installation and configuration for shelving mounted on carriages.
 - 3. Provide location and details of anchorage devices to be embedded in or fastened to the structure.
 - 4. Provide installation schedule and complete erection procedures to ensure proper installation.
- D. Selection Samples: For each finish product specified, provide color chips representing manufacturer's full range of available colors and finishes.
- E. Maintenance Data: Provide in form suitable for inclusion in maintenance manuals for mobile storage units. Data shall include operating and maintenance instructions, parts inventory listing, purchase source listing, emergency instructions, and related information.
 - 1. Submit manufacturer's printed instructions for maintenance of installed work, including methods and frequency recommended for maintaining optimum condition under anticipated use conditions. Include precautions against using materials and methods which may be detrimental to finishes and performance
- F. Warranty: Submit manufacturer warranty and ensure that forms have been completed in Owner's name and registered with manufacturer.

1.05 QUALITY ASSURANCE

- A. Manufacturer Qualifications: Company specializing in manufacturing products specified in this section, with not less than three years of documented experience.
- B. Installer Qualifications: Company specializing in performing the work of this section with minimum three years of documented experience and approved by manufacturer.

1.06 DELIVERY, STORAGE, AND HANDLING

- A. Inspect for dents, scratches, or other damage. Replace damaged components.
- B. Store in manufacturer's unopened packaging until ready for installation.
- C. Store under cover and elevated above grade.

1.07 WARRANTY

- A. See Section 01 78 00 - Closeout Submittals, for additional warranty requirements.
- B. Correct defective Work within a one year period after the Date of Substantial Completion
- C. Provide five year manufacturer warranty covering defects of manufacturing and workmanship and rust and corrosion.

PART 2 PRODUCTS

2.01 MANUFACTURERS

- A. Mobile Storage Shelving Systems:
 - 1. Basis of Design: SpaceSaver Corporation, XpressDEK Rail System: www.spacesaver.com/#sle.
 - 2. Substitutions: See Section 01 60 00 - Product Requirements.

2.02 MOBILE STORAGE SHELVING SYSTEMS - GENERAL

- A. System Description: 7 foot high, high-density movable shelving system consisting of shelving units mounted on rail-guided wheeled carriages.
 - 1. Carriage Operation: Mechanically assisted.
 - 2. Carriage Capacity: Equivalent to basis of design.
 - 3. Rail Mounting: Surface mounted directly on floor without grout, plywood, or shims.
- B. Components:
 - 1. Carriages: Rectangular steel frames of type and size required for selected system.
 - a. Finish: Powder coat paint; color to match shelving.
 - b. Use of cross-bracing is unacceptable.
 - c. Galvanized carriage components are unacceptable.
 - 2. Wheels: Cold rolled steel; dual flanged.
 - a. Low-Profile Wheel Section: Minimum 12 ga. fixture-welded wheel sections to ensure that, once installed; bottom storage shelf is no higher than 4.25 inches above top of rail. Locate wheel assemblies under each upright to distribute loads directly to wheels.
 - b. Wheel Size: Minimum 3 inches, outside diameter drive and load wheels.
 - 3. Rails: Cold rolled steel; type and size to carry loads imposed by system.
 - 4. Anti-Tip Device: Provide manufacturer's standard rail device to prevent tipping of system.
 - 5. Shelving: Case type. Six shelves including bottom shelf.
 - 6. Floor Panels: Underlayment grade plywood, 3/4 inch thick.
 - 7. Ramps: Aluminum; 9 degrees maximum slope.
 - 8. Face Panels: High pressure laminate clad particle board with plastic edging on vertical edges; full height and width of shelving.
 - a. Color: As selected by A/E from manufacturer's full line.
- C. Accessories:
 - 1. Anchors and Leveling Screws: Types and sizes recommended by manufacturer for specified rail mounting and floor system.
 - 2. Bumpers: Manufacturer's standard rubber stops.

2.03 MECHANICALLY ASSISTED MOBILE STORAGE SHELVING SYSTEMS

- A. Drive System: Provide uniform movement of the carriage without drifting or jerking.
 - 1. Provide a full-length line drive shaft, whereby, all wheels on one side of carriage shall drive.
 - 2. Shafts: 1 inch steel connecting tube shafts.
 - 3. Provide two wheels per rail for each carriage, direct-driven on one side.
 - 4. Bearing Surfaces: Provide rotating load bearing members with ball or roller bearings. Provide shafts with pillow block or flanged self-aligning type bearings.
- B. Control: Three-spoke operating handle with manual locking latch.
 - 1. Minimum Gear Ratio: 1 lbf to move a load of 6000 lbs.
- C. Safety System: Mechanical safety brake at toe level the full length of the carriage. Light pressure of 1.5 lbf on aluminum bar activates safety mechanism to stop carriage movement.

PART 3 EXECUTION

3.01 EXAMINATION

- A. Verify that field measurements are as indicated.
- B. Verify that substrate is in proper condition to install rails and flooring system per manufacturer's requirements.
- C. If substrate preparation is the responsibility of another installer, notify Architect of unsatisfactory preparation before proceeding.

3.02 INSTALLATION

- A. General: Install system components and accessories in accordance with manufacturer's printed instructions.
- B. Position system components level and plumb within manufacturer's specified tolerances.
- C. Anchor rails directly to concrete subfloor.
- D. Extend rails under stationary shelving units.
- E. Position carriages ensuring wheels align properly on rails. Fasten multiple carriages together forming a single movable base.
- F. Install shelving with shelf surfaces level and vertical supports plumb; fasten to carriage supports with vibration-proof fasteners.

3.03 ADJUSTING

- A. Adjust mobile storage shelving components and accessories to provide for smooth operation of system.

3.04 CLEANING

- A. Clean shelving and surrounding area after installation.

3.05 CLOSEOUT ACTIVITIES

- A. See Section 01 78 00 - Closeout Submittals, for closeout submittals.
- B. Demonstration: Demonstrate proper operation of system to Owner, and correct deficiencies or make adjustments as directed.
- C. Training: Train Owner's personnel on operation, adjustment, and maintenance of system.
 - 1. Use operation and maintenance manual as training reference, supplemented with additional training materials as required.
 - 2. Location: At project site.

END OF SECTION

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LA CRESCENT - HOKAH PUBLIC SCHOOLS

MIDDLE/HIGH SCHOOL ADDITION & RENOVATION

1301 LANCER BOULEVARD

LA CRESCENT, MINNESOTA



LA CRESCENT-HOKAH
PUBLIC SCHOOLS

ARCHITECTURE
ENGINEERING
INTERIOR DESIGN



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Consultant:

HSR# 19014-1

MARCH 2020

BID DOCUMENTS

INDEX OF DRAWINGS

GENERAL

- G000 COVER SHEET
- G001 LIFE SAFETY PLAN
- G002 CONSTRUCTION PHASING

CIVIL

- C100 DEMOLITION PLAN
- C101 LAYOUT PLAN
- C102 GRADING PLAN
- C103 EROSION CONTROL PLAN
- C104 UTILITY PLAN

ARCHITECTURAL

- A090 OVERALL REMOVAL PLAN
- A091 FIRST FLOOR REMOVAL PLAN - AREA A
- A092 BASEMENT REMOVAL PLAN - AREA A
- A093 FIRST FLOOR REMOVAL PLAN - AREAS B & C
- A094 FIRST FLOOR REMOVAL PLAN - AREA D
- A101 FIRST FLOOR PLAN - AREA A
- A102 BASEMENT PLAN - AREA A
- A103 FIRST FLOOR PLAN - AREA B & C
- A104 FIRST FLOOR PLAN - AREA D
- A110 OVERALL REFLECTED CEILING PLAN
- A111 REFLECTED CEILING PLAN - AREA A
- A112 REFLECTED CEILING PLAN - AREA B
- A113 REFLECTED CEILING PLAN - AREA C
- A114 REFLECTED CEILING PLAN - AREA D
- A120 ROOF PLAN
- A200 EXTERIOR ELEVATIONS
- A210 INTERIOR ELEVATIONS / CASEWORK
- A211 INTERIOR ELEVATIONS / CASEWORK
- A212 INTERIOR ELEVATIONS / CASEWORK
- A213 INTERIOR ELEVATIONS / CASEWORK
- A214 CASEWORK DETAILS
- A300 BUILDING SECTIONS
- A301 BUILDING SECTIONS
- A310 WALL SECTIONS
- A311 WALL SECTIONS
- A400 ENLARGED PLANS
- A500 DETAILS
- A501 DETAILS
- A502 DETAILS
- A503 DETAILS
- A504 PLAZA DETAILS
- A505 DETAILS
- A506 DETAILS
- A600 WALL TYPES
- A601 DOOR SCHEDULE
- A602 WINDOW ELEVATIONS

INTERIOR DESIGN

- ID101 FIRST FLOOR FINISH PLAN - AREA A
- ID102 FIRST FLOOR FINISH PLAN - AREA B & C
- ID103 FIRST FLOOR FINISH PLAN - AREA D
- ID600 MASTER COLOR SCHEDULE

STRUCTURAL

- S001 STRUCTURAL NOTES
- S002 STRUCTURAL SCHEDULES
- S003 STRUCTURAL SCHEDULES/DETAILS
- S100 FOUNDATION PLAN - AREA A
- S101 FOUNDATION PLAN - AREA D
- S200 LOW ROOF FRAMING PLAN - AREA A
- S201 FLOOR FRAMING PLAN - AREA D
- S202 HIGH ROOF FRAMING PLAN - AREA A
- S800 DETAILS
- S801 DETAILS
- S810 FRAMING DETAILS

FIRE PROTECTION

- F000 SYMS, ABBRV'S, DETAILS & NOTES - FIRE PROTECTION
- F090 OVERALL REMOVAL PLAN - FIRE PROTECTION
- F100 OVERALL FLOOR PLAN - FIRE PROTECTION

PLUMBING

- P000 SYMBOLS, ABBREVS & SCHEDULES - PLUMBING
- P091 UNDERFLOOR REMOVAL PLAN - PLUMBING - AREA A
- P092 BASEMENT REMOVAL PLAN - PLUMBING - AREA A
- P093 UNDERFLOOR REMOVAL PLAN - PLUMBING - AREA B & C
- P094 UNDERFLOOR REMOVAL PLAN - PLUMBING - AREA D
- P095 FIRST FLOOR REMOVAL PLAN - PLUMBING - AREA A
- P096 FIRST FLOOR REMOVAL PLAN - PLUMBING - AREA B & C
- P097 FIRST FLOOR REMOVAL PLAN - PLUMBING - AREA D
- P101 UNDERFLOOR PLAN - PLUMBING - AREA A
- P102 BASEMENT PLAN - PLUMBING - AREA A
- P103 UNDERFLOOR PLAN - PLUMBING - AREA B & C
- P104 UNDERFLOOR PLAN - PLUMBING - AREA D
- P106 FIRST FLOOR PLAN - PLUMBING - AREA A
- P107 FIRST FLOOR PLAN - PLUMBING - AREA B & C
- P108 FIRST FLOOR PLAN - PLUMBING - AREA D
- P120 OVERALL ROOF PLAN - PLUMBING
- P121 ROOF PLAN - PLUMBING - AREA A
- P122 ROOF PLAN - PLUMBING - AREA D
- P300 WASTE & VENT ISOMETRIC - PLUMBING
- P301 WASTE AND VENT ISOMETRIC - PLUMBING
- P302 WASTE AND VENT ISOMETRIC - PLUMBING
- P303 WASTE AND VENT ISOMETRIC - PLUMBING
- P310 DOMESTIC WATER ISOMETRIC - PLUMBING
- P311 DOMESTIC WATER ISOMETRIC - PLUMBING
- P312 DOMESTIC WATER ISOMETRIC - PLUMBING
- P313 DOMESTIC WATER ISOMETRIC - PLUMBING
- P320 STORM ISOMETRIC - PLUMBING
- P900 DETAILS - PLUMBING

MECHANICAL

- M001 HVAC GENERAL INFO SHEET
- M090 MECHANICAL DUCTWORK REMOVAL PLAN - AREA A
- M091 MECHANICAL DUCTWORK REMOVAL PLANS - AREA B & C
- M092 MECHANICAL DUCTWORK REMOVAL PLAN - AREA D
- M093 MECHANICAL PIPING REMOVAL PLAN - AREA A
- M094 MECHANICAL PIPING REMOVAL PLANS - AREA B & C
- M095 MECHANICAL PIPING REMOVAL PLAN - AREA D
- M096 MECHANICAL STEAM REMOVAL PLAN
- M097 MECHANICAL REMOVAL ROOF PLAN
- M100 MECHANICAL DUCTWORK REMODEL PLAN - AREA A
- M101 MECH. DUCTWORK REMODEL PLANS - AREA B & C
- M102 MECHANICAL DUCTWORK REMODEL PLAN - AREA D
- M103 MECHANICAL PIPING REMODEL PLAN - AREA A
- M104 MECHANICAL PIPING REMODEL PLANS - AREA B & C
- M105 MECHANICAL PIPING REMODEL PLANS - AREA D
- M106 MECHANICAL HOT WATER COIL REPLACEMENT PLAN
- M107 MECHANICAL REMODELED ROOF PLAN
- M108 OVERALL PLENUM PLAN
- M200 ENLARGED BOILER ROOM PLAN
- M400 HEATING PIPING SCHEMATIC CONTROL SCHEMATICS
- M500 HVAC DETAILS
- M501 HVAC DETAILS
- M502 HVAC DETAILS
- M503 HVAC DETAILS
- M504 HVAC DETAILS
- M600 HVAC SCHEDULES
- M601 HVAC SCHEDULES

ELECTRICAL

- E000 SYMBOLS, ABBREVIATIONS & DETAILS - ELECTRICAL
- E090 FIRST FLOOR REMOVAL OVERALL PLAN - ELECTRICAL
- E091L FIRST FLOOR REMOVAL PLAN - LIGHTING - AREA A
- E091P FIRST FLOOR REMOVAL PLAN - POWER & SYSTEMS - AREA A
- E092 BASEMENT REMOVAL PLAN - ELECTRICAL - AREA A
- E093L FIRST FLOOR REMOVAL PLAN - LIGHTING - AREA B & C
- E093P FIRST FLOOR REMOVAL PLAN - POWER & SYSTEMS - AREA B & C
- E094 FIRST FLOOR REMOVAL PLAN - ELECTRICAL - AREA D
- E101L FIRST FLOOR PLAN - LIGHTING - AREA A
- E101P FIRST FLOOR PLAN - POWER & SYSTEMS - AREA A
- E102 BASEMENT PLAN - ELECTRICAL - AREA A
- E103L FIRST FLOOR PLAN - LIGHTING - AREA B & C
- E103P FIRST FLOOR PLAN - POWER & SYSTEMS - AREA B & C
- E104L FIRST FLOOR PLAN - LIGHTING - AREA D
- E104P FIRST FLOOR PLAN - POWER & SYSTEMS - AREA D
- E600 DEMO/EXISTING ONE-LINE DIAGRAM - ELECTRICAL
- E601 NEW/EXISTING ONE-LINE DIAGRAM - ELECTRICAL
- E800 SCHEDULES - ELECTRICAL
- E801 PANEL SCHEDULES - ELECTRICAL
- E802 PANEL SCHEDULES - ELECTRICAL
- E803 PANEL SCHEDULES - ELECTRICAL
- E804 PANEL SCHEDULES - ELECTRICAL
- E805 PANEL SCHEDULES - ELECTRICAL
- E806 PANEL SCHEDULES - ELECTRICAL
- E807 PANEL SCHEDULES - ELECTRICAL
- E808 PANEL SCHEDULES - ELECTRICAL
- E809 PANEL SCHEDULES - ELECTRICAL
- E810 PANEL SCHEDULES - ELECTRICAL
- E811 PANEL SCHEDULES - ELECTRICAL
- E812 PANEL SCHEDULES - ELECTRICAL
- E813 PANEL SCHEDULES - ELECTRICAL
- E814 PANEL SCHEDULES - ELECTRICAL
- E815 PANEL SCHEDULES - ELECTRICAL
- E816 PANEL SCHEDULES - ELECTRICAL
- E900 DETAILS - ELECTRICAL
- E901 DETAILS - ELECTRICAL
- E902 AUDIO ENHANCEMENT DETAILS - ELECTRICAL

PROJECT TEAM

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LA CRESCENT-HOKAH
HIGH SCHOOL/ MIDDLE SCHOOL
 Project Location: 1301 LANCER BOULEVARD
 LA CRESCENT, MINNESOTA
 Sheet Title: **COVER SHEET**

HSR Project Number: **19014-1**
 Project Date: **3.5.2020**
 Drawn By: **RMW**

Key Plan:

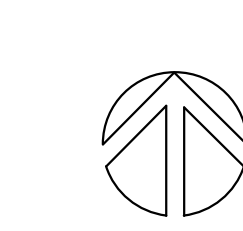


BID DOCUMENTS

No.	Description	Date
1	ADDENDUM 1	3/16/20

Graphic Scale: **VARIES**
 Last Update: **3/18/2020 11:37:02 AM**

CITY MAP



G000



No.	Description	Date
1	ADDENDUM #1	3/16/2020

GENERAL NOTES:

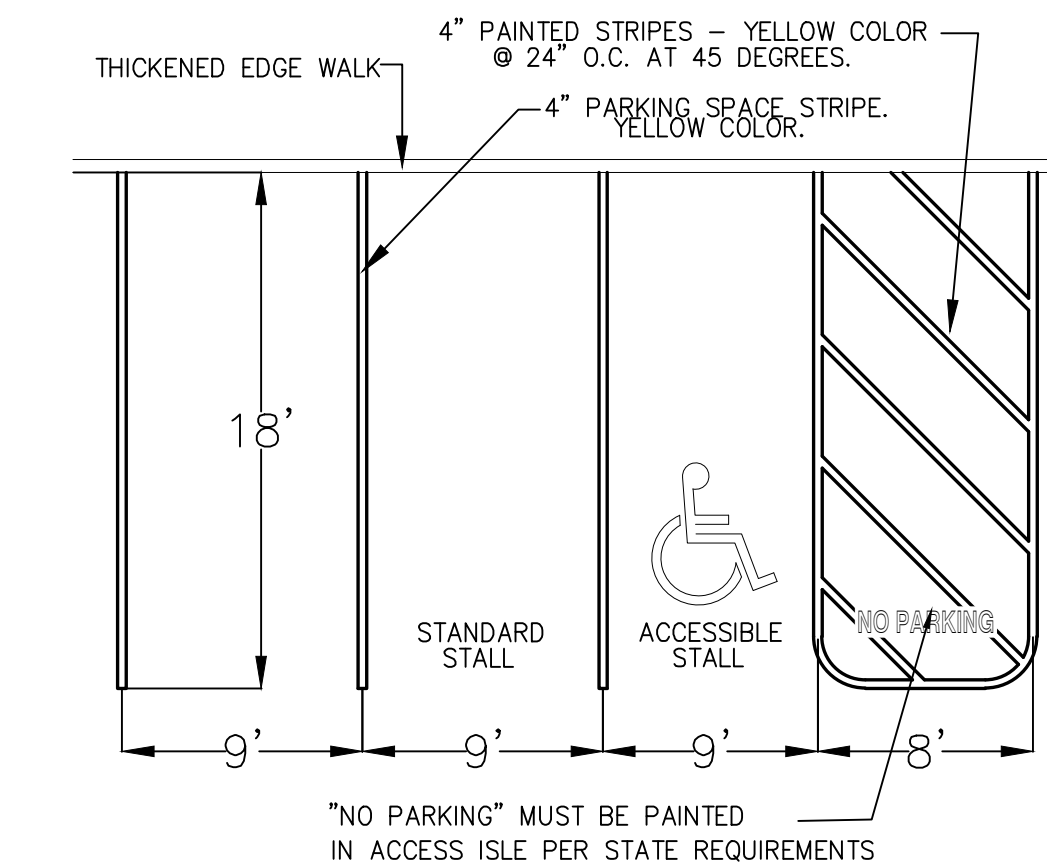
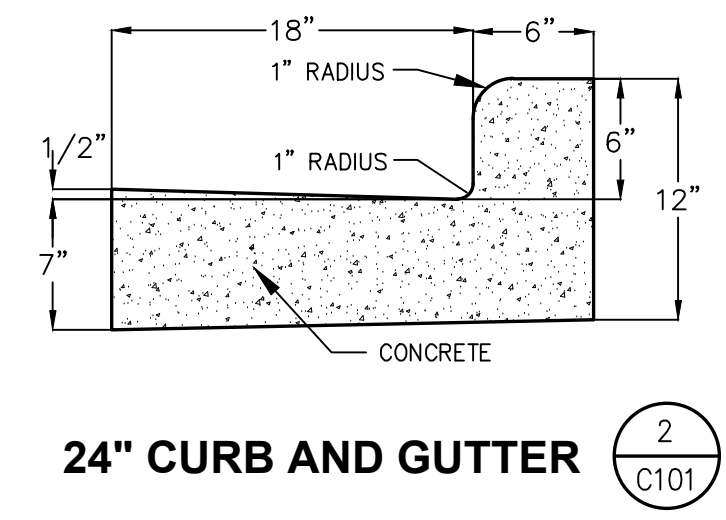
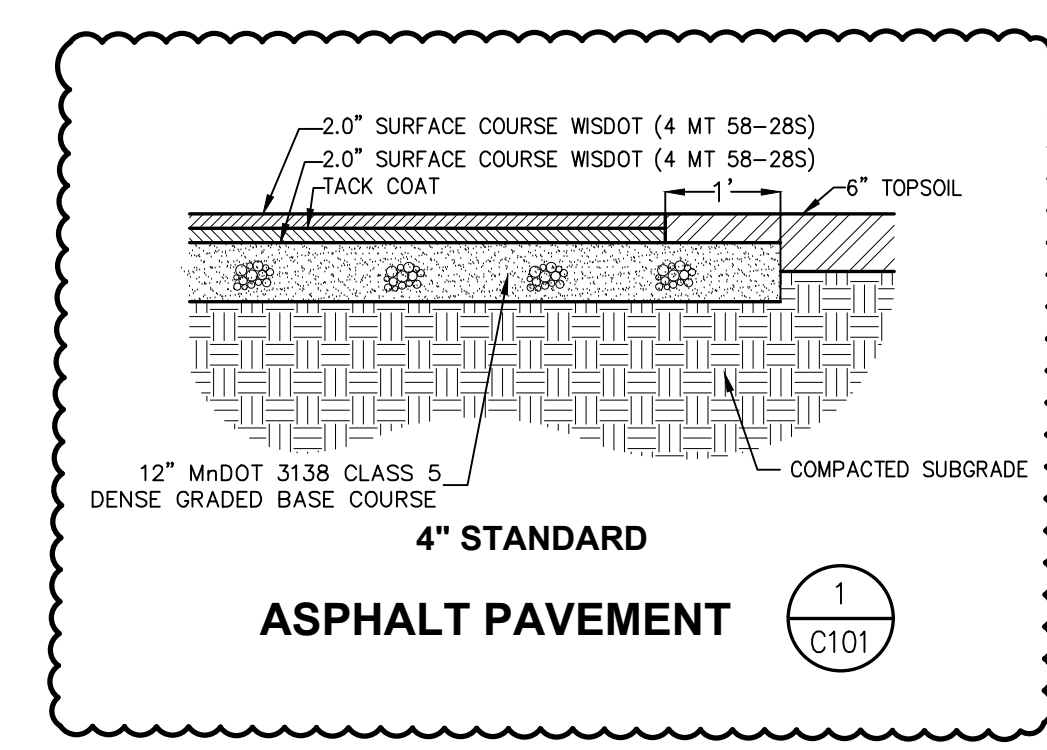
- CONTACT GOPHER STATE ONE CALL (651-454-0002) 5 WORKING DAYS PRIOR TO THE START OF DEMOLITION/CONSTRUCTION.
- GRADE, LINE, AND LEVEL TO BE REVIEWED IN THE FIELD BY THE CONSTRUCTION MANAGER.
- PRIOR TO THE START OF CONSTRUCTION INSTALL ALL REQUIRED EROSION CONTROL MEASURES IN ACCORDANCE WITH LOCAL MUNICIPAL AND MINNESOTA POLLUTION CONTROL REGULATIONS.
- ALL EROSION CONTROL MEASURES SHALL BE MAINTAINED IN ACCORDANCE WITH THE MINNESOTA POLLUTION CONTROL AGENCY AND LOCAL AUTHORITIES.
- SEE SHEET C103 FOR ALL REQUIRED EROSION CONTROL ELEMENTS.
- ANY EXISTING UTILITIES NOT SHOWN ON THIS DOCUMENT WHICH NEED TO BE REMOVED, RELOCATED AND OR ADJUSTED SHALL BE THE RESPONSIBILITY OF THE SITE GRADING CONTRACTOR AND INCLUDED IN THE BASE BID CONTRACT.
- VERIFY THE LOCATION OF ALL EXISTING UTILITIES PRIOR TO THE START OF DEMOLITION/CONSTRUCTION.
- ALL BIDDERS PLANNING ON SUBMITTING A BID SHALL VISIT THE SITE AND REVIEW THE EXISTING CONDITIONS PRIOR TO THE BID DATE.
- PRIOR TO THE START OF WORK VERIFY WITH THE LOCAL AUTHORITIES THAT ALL REQUIRED PERMITS HAVE BEEN ACQUIRED.
- COORDINATE CONSTRUCTION IN THE RIGHT OF WAY WITH THE LOCAL AUTHORITIES.
- PROVIDE PROPER BARRICADES, SIGNS AND TRAFFIC CONTROL TO MAINTAIN THRU TRAFFIC ALONG ADJACENT STREETS IN ACCORDANCE WITH LOCAL MUNICIPAL REGULATIONS.
- ALL GENERAL LANDSCAPE AREAS SHALL BE SEED/FERTILIZED/CRIMP HAY MULCHED OR HYDROSEEDED WITH TACKIFIER IN ACCORDANCE WITH THE PROJECT SPECIFICATIONS.

PAVEMENT HATCH PATTERNS:

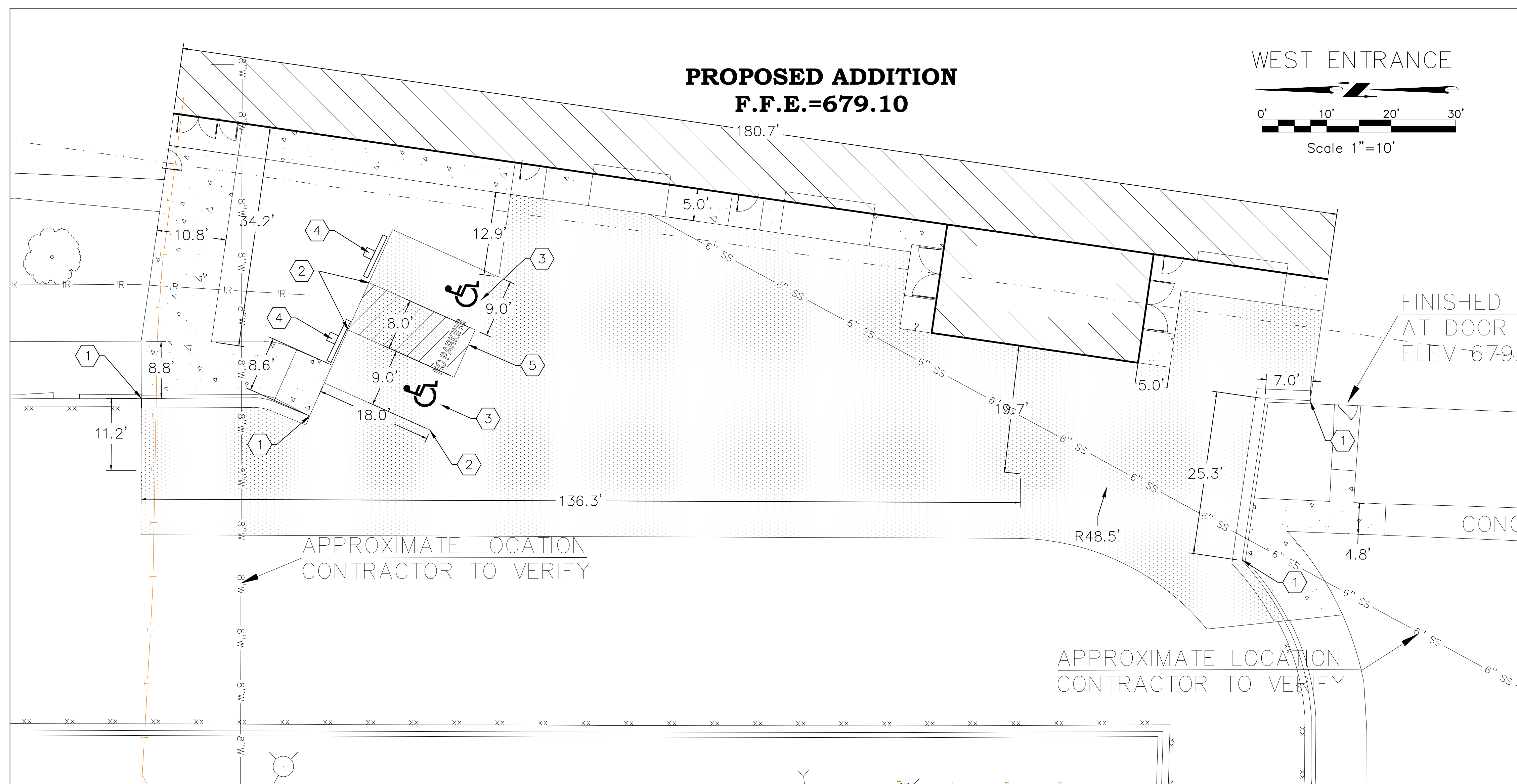
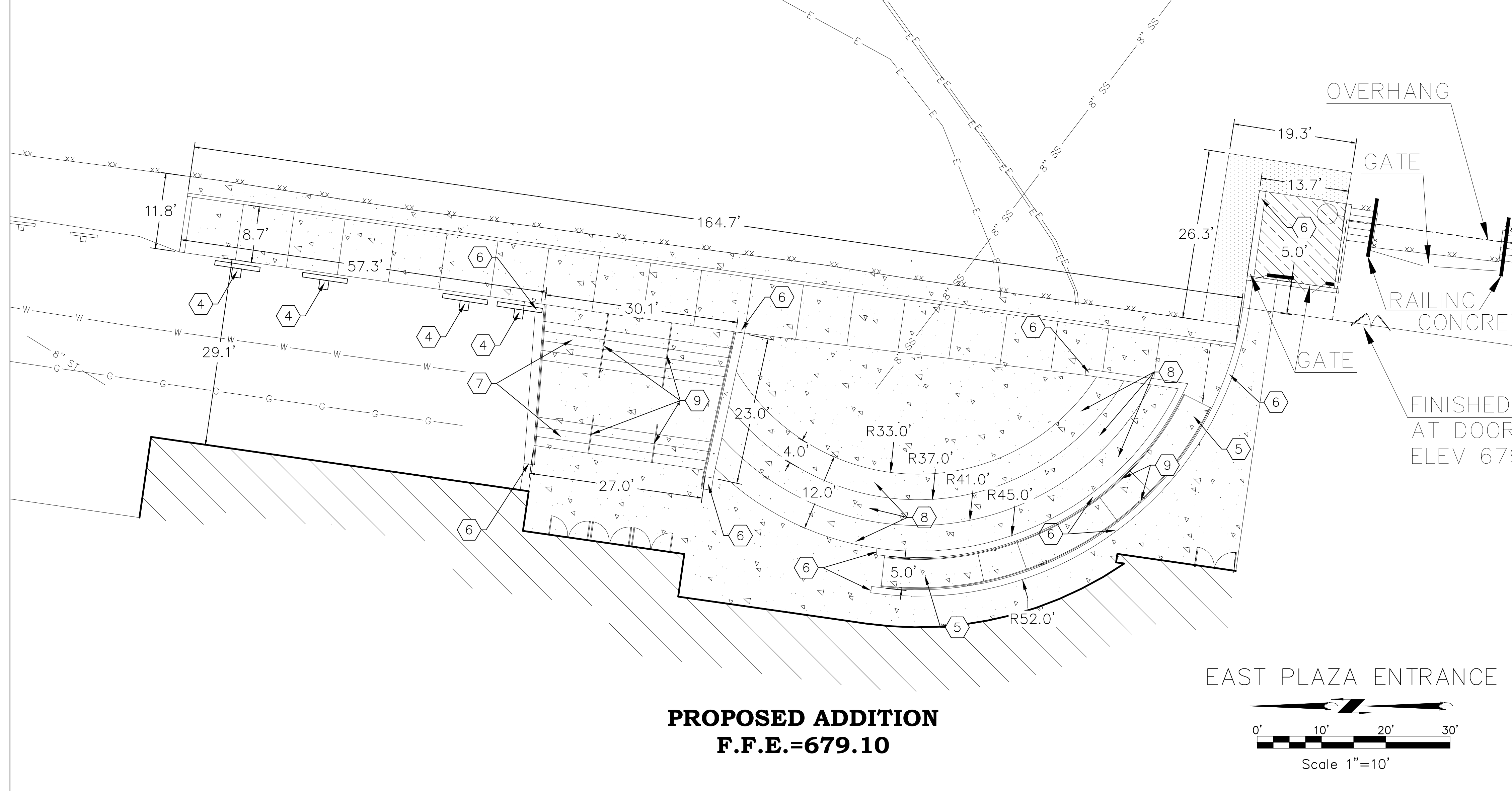
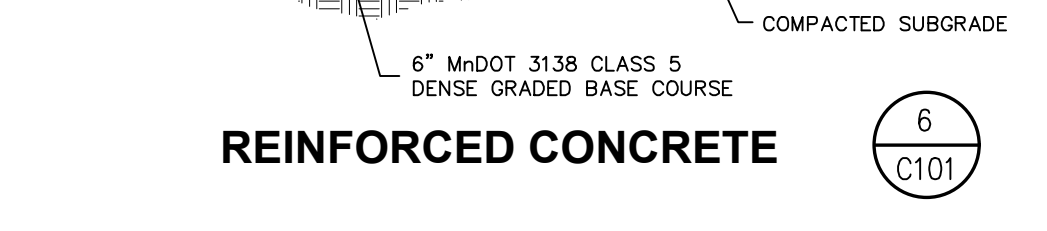
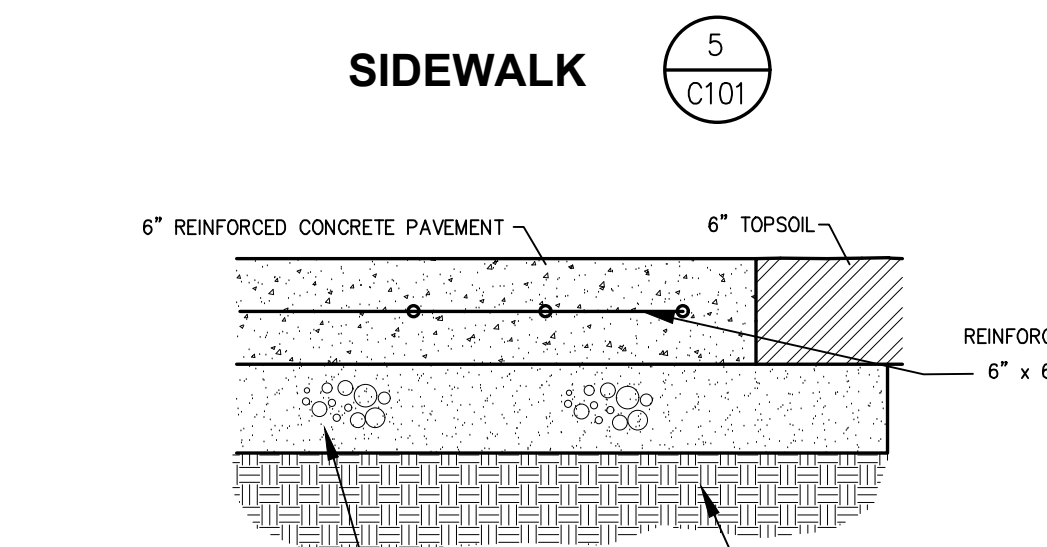
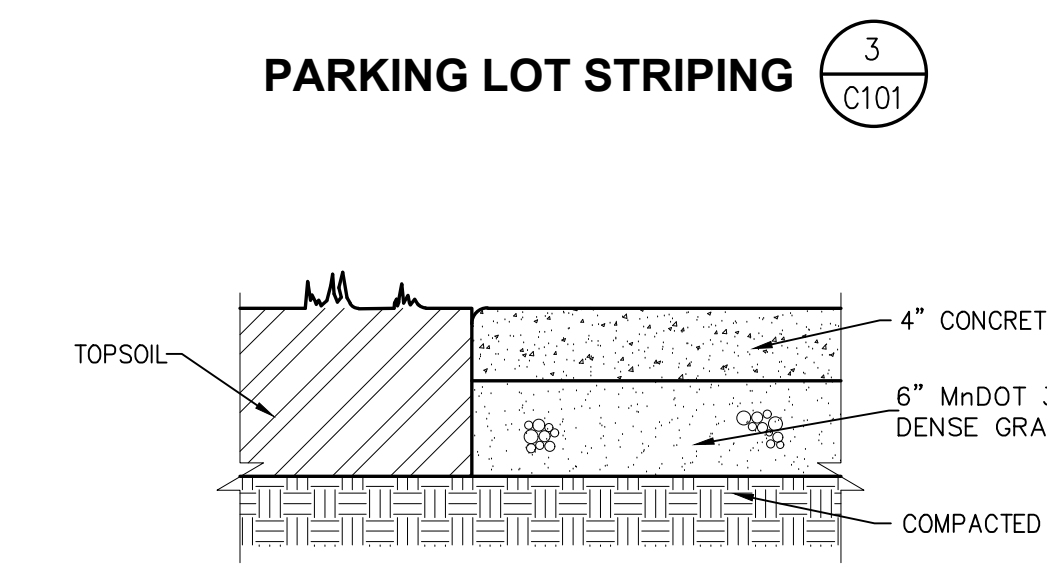
- PROPOSED 4" ASPHALTIC CONCRETE PAVEMENT W/ 12" BASE COURSE 1 C101
- PROPOSED 4" CONCRETE PAVEMENT 5 C101
- PROPOSED 6" REINFORCED CONCRETE PAVEMENT 6 C101

KEYNOTES:

- ① 24" CURB AND GUTTER
- ② PARKING LOT STRIPING
- ③ ACCESSIBLE PARKING STALL
- ④ ACCESSIBLE PARKING SIGN
- ⑤ ADA ACCESS ROUTE
- ⑥ RETAINING WALL (SEE ARCHITECTURAL FOR DETAILS)
- ⑦ CONCRETE STAIRS (SEE ARCHITECTURAL FOR DETAILS)
- ⑧ CONCRETE SEATING AREA (SEE ARCHITECTURAL FOR DETAILS)
- ⑨ RAILING (SEE ARCHITECTURAL FOR DETAILS)



NOTES:
*THE SIGN MUST BE A WHITE RECTANGLE WITH LONGER DIMEN. VERT. AND A BLUE AND WHITE SYMBOL OF ACCESS. THE SIGN MAY EITHER BE REFLECTIVE OR NON-REFLECTIVE.
*THE SIGN MUST INCLUDE THE WORDS "PARKING VEHICLE NO REQUIRED UP TO \$200 FINE FOR VIOLATION"
ADJACENT TO 8'-0" WIDE ACCESS AISLE ONLY
PROVIDE ADDITIONAL SIGNAGE BELOW THE ACCESSIBLE SIGN AS REQUIRED PER REGULATIONS.
BOLT SIGNS TO POST
GALVANIZED STEEL U-CHANNEL POST
PAVEMENT
CONCRETE FOUNDATION



UTILITY DISCLAIMER
THE LOCATIONS, SIZES, AND TYPES OF UNDERGROUND PUBLIC AND PRIVATE UTILITIES OR SUBSTRUCTURES SHOWN HEREIN WERE OBTAINED FROM VISUAL INSPECTION, FIELD MEASUREMENTS, AND/OR AS-BUILT PLANS. SANITARY SEWER AND STORM SEWER PIPE SIZES, INVERTS, DIRECTION, AND LOCATIONS ESTIMATED BASED ON FIELD OBSERVATIONS. PRIOR TO CONSTRUCTION IN THE VICINITY OF ANY UTILITIES SHOWN HEREIN, IT IS RECOMMENDED THAT THE VICINITY OF ANY UTILITIES SHOWN HEREIN BE FIELD VERIFIED. THE LOCATIONS SHOWN HEREIN ARE ONLY APPROXIMATE, WITH THE POSSIBILITY THAT ADDITIONAL UTILITY LINES NOT DISCOVERED, OR MARKED, DURING THE SEARCH OF RECORDS AND THE FIELD SURVEY MAY EXIST. ANY CONTRACTOR USING THE INFORMATION SHOWN HEREIN IS HEREBY FOREWARNED THAT ANY EXCAVATION UPON THIS SITE MAY RESULT IN THE DISCOVERY OF ADDITIONAL UNDERGROUND UTILITIES NOT SHOWN HEREIN. IN GENERAL, UNDERGROUND UTILITY LOCATIONS ARE SHOWN FROM UTILITY MARKINGS, BY OTHERS, AND/OR AS-BUILT PLANS. PROVIDED BY OTHERS. POINT OF BEGINNING MAKES NO WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, WITH RESPECT TO THE EXISTING UTILITIES SHOWN HEREIN, AND BELIEVES THAT THE INFORMATION CONTAINED HEREIN IS RELIABLE AND GENERALLY ACCURATE FOR THE PURPOSE INTENDED.

CLIENT
LA CRESCENT-HOKAH PUBLIC SCHOOLS
703 SOUTH 11TH STREET
LA CROSSE, MN 55947

OWNER
IND SCHOOL DISTRICT #300
510 OAK STREET
LA CRESCENT, MN 55947

BENCH MARK
ELEVATIONS ARE REFERENCED TO NAVD 88 DATUM.

BENCH MARK #1
BURY BOLT ON HYDRANT EAST SIDE OF LANCER BOULEVARD, APPROXIMATELY 300FT NORTH OF THE INTERSECTION OF LANCER BOULEVARD AND SOUTH 14TH STREET AND APPROXIMATELY 40FT EAST OF THE ROAD CENTERLINE ELEVATION = 679.51

BENCH MARK #2
BURY BOLT ON HYDRANT EAST SIDE OF LANCER BOULEVARD, APPROXIMATELY 35FT SOUTH OF THE INTERSECTION OF LANCER BOULEVARD AND WILLOW STREET AND APPROXIMATELY 25FT EAST OF THE ROAD CENTERLINE ELEVATION = 676.64

BENCH MARK #3
NORTHEAST TOP OF FLANGE BOLT ON HYDRANT NORTHWEST CORNER OF THE INTERSECTION OF LANCER BOULEVARD AND 11TH STREET, APPROXIMATELY 340 FT NORTH OF THE INTERSECTION OF LANCER BOULEVARD AND 11TH STREET AND APPROXIMATELY 20FT NORTH OF THE 11TH STREET CENTERLINE ELEVATION = 678.18

BENCH MARK #4
BURY BOLT ON HYDRANT NORTHWEST CORNER OF THE INTERSECTION OF LANCER BOULEVARD AND 12TH STREET, APPROXIMATELY 35FT WEST OF THE LANCER BOULEVARD CENTERLINE ELEVATION = 678.45

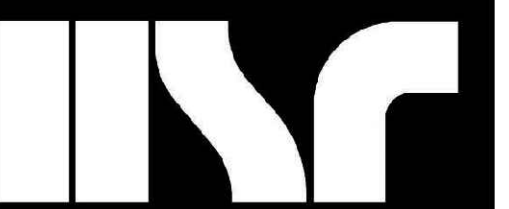
BENCH MARK #5
SOUTHEAST TOP OF FLANGE BOLT ON HYDRANT EAST SIDE OF MIDDLE/HIGH SCHOOL NEAR NORTHEAST CORNER, APPROXIMATELY 30 FT PERPENDICULAR FROM THE EASTERN SCHOOL WALL ELEVATION = 679.81

BENCH MARK #6
NORTHWEST TOP OF FLANGE BOLT ON HYDRANT NORTHWEST CORNER OF LANCER BOULEVARD AND 11TH STREET, APPROXIMATELY 340 FT NORTH OF THE INTERSECTION OF LANCER BOULEVARD AND 11TH STREET AND APPROXIMATELY 20FT NORTH OF THE 11TH STREET CENTERLINE ELEVATION = 673.84

BENCH MARK #7
60D SPIKE IN POWER POLE NORTH SIDE OF SOUTH 11TH STREET, APPROXIMATELY 290FT EAST OF THE CORNER OF LANCER BOULEVARD AND SOUTH 11TH STREET AND APPROXIMATELY 30FT NORTH OF ROAD CENTERLINE ELEVATION = 668.69

BENCH MARK #8
60D SPIKE IN POWER POLE SOUTH SIDE OF SOUTH 14TH STREET, APPROXIMATELY 770FT EAST OF THE INTERSECTION OF SOUTH 14TH STREET AND LANCER BOULEVARD AND APPROXIMATELY 30 FT SOUTHEAST OF ROAD CENTERLINE ELEVATION = 678.84

BENCH MARK #9
WEST TOP OF FLANGE BOLT ON HYDRANT NEAR 1700 LANCER BOULEVARD AT THE SOUTH MOST END, APPROXIMATELY 900 FT SOUTH OF THE INTERSECTION LANCER BOULEVARD AND WILLOW STREET ELEVATION = 676.75



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PHONE: 608.784.1830
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Consultant:



Point of Beginning
Civil Engineering
Land Surveying
Landscape Architecture
4941 Kirsching Court
Stevens Point, WI 54481
715.344.9999(PH) 715.344.9922(FX)

Project Title: **LA CRESCENT - HOKAH PUBLIC SCHOOLS
HIGH SCHOOL / MIDDLE SCHOOL**
Project Location: **1301 LANCER BOULEVARD
LA CROSSE, MINNESOTA 55947**
Sheet Title: **GRADING PLAN**

HSR Project Number: **1904-1**

Project Date: **3.5.2020**

Drawn By: **JJL**

I hereby certify that this plan, specification, or report was prepared by me, or under my direct supervision, and that I am a duly Licensed Professional Engineer under the laws of the State of Minnesota.
Date: _____
James J. Lundberg, P.E.
Registration No. 44630

BID DOCUMENTS

No.	Description	Date
1	ADDENDUM #1	3/16/2020

Graphic Scale: 1" = 10'
Last Update: 12.2020

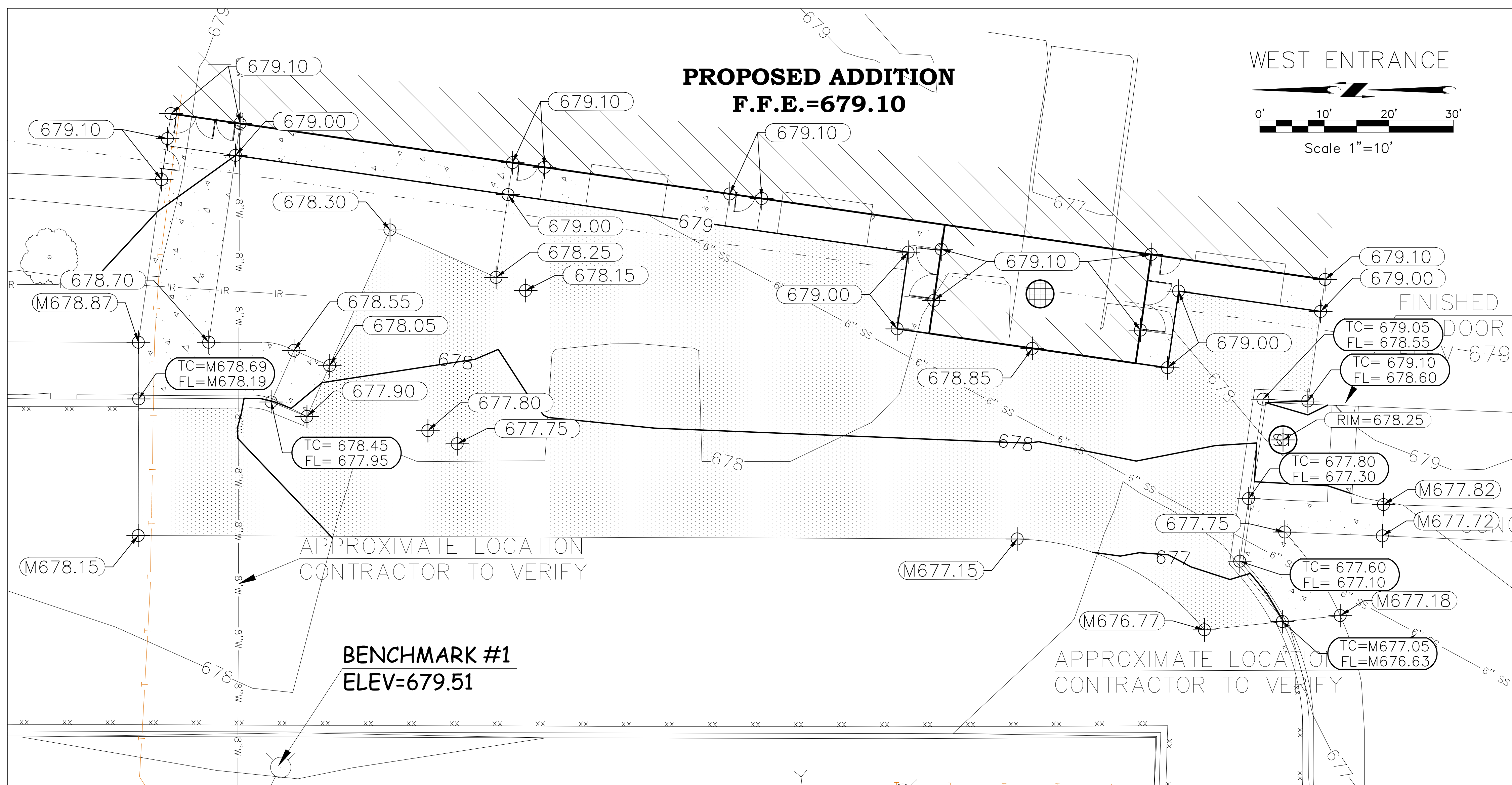
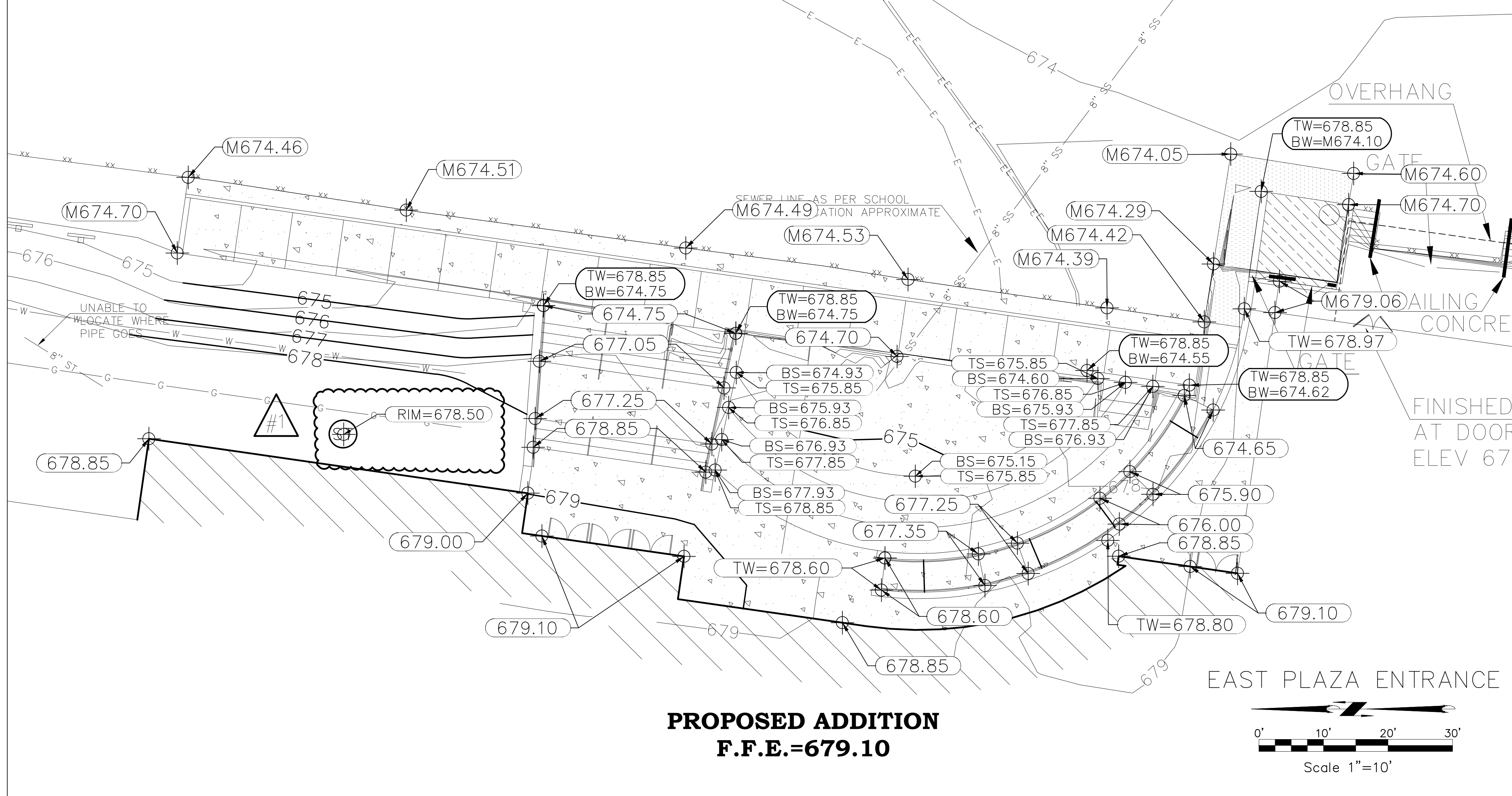
C102

GENERAL NOTES:

- CONTACT GOPHER STATE ONE CALL (651-454-0002) 5 WORKING DAYS PRIOR TO THE START OF DEMOLITION/CONSTRUCTION.
- THE PROPOSED SITE PLAN FINISH FLOOR ELEVATION OF 679.10' EQUALS THE PROPOSED BUILDING ARCHITECTURAL FINISH FLOOR ELEVATION OF 100.00'.
- GRADE, LINE, AND LEVEL TO BE REVIEWED IN THE FIELD BY THE CONSTRUCTION MANAGER.
- ANY EXISTING UTILITIES NOT SHOWN ON THIS DOCUMENT WHICH NEED TO BE REMOVED, RELOCATED AND OR ADJUSTED SHALL BE COORDINATED WITH THE APPLICABLE UTILITY COMPANY.
- INSTALL ALL REQUIRED EROSION CONTROL MEASURES IN ACCORDANCE WITH LOCAL AUTHORITIES AND MINNESOTA POLLUTION CONTROL AGENCY REGULATIONS.
- ALL EROSION CONTROL MEASURES SHALL BE MAINTAINED IN ACCORDANCE WITH THE MINNESOTA POLLUTION CONTROL AGENCY AND LOCAL AUTHORITIES REGULATIONS.
- 6" OF TOPSOIL SHALL BE PROVIDED IN ALL GENERAL LAWN AREAS AND 12" SHALL BE PROVIDED IN ALL PLANTING BED AREAS.
- SEE SHEET C103 FOR ALL REQUIRED EROSION CONTROL ELEMENTS.
- REFER TO THE PROPOSED BUILDING MECHANICAL/PLUMBING PLANS FOR EXACT CONNECTION LOCATIONS AND VERIFY SANITARY SEWER LATERAL.
- COORDINATE ALL EARTHWORK AND UTILITY ACTIVITIES WITH GAS, ELECTRIC, (INCLUDING MAIN SERVICE, SITE LIGHTING, CONDUITS AND SIGNAGE) CABLE AND TELEPHONE CONSTRUCTION AND RESPECTIVE TRADES FOR THE INSTALLATION OF SAID UTILITIES.
- EXCESS TOPSOIL SHALL BE STOCKPILED AND STORED ONSITE FOR FUTURE USE, UNLESS OTHERWISE DIRECTED BY THE OWNER.
- THE LOCAL MUNICIPALITY SHALL BE CONTACTED PRIOR TO ANY EXCAVATION IN THE PUBLIC RIGHT-OF-WAY. THE CONTRACTOR SHALL HAVE HIS TRAFFIC CONTROL PLAN APPROVED PRIOR TO WORK COMMENCING. THE LOCAL MUNICIPALITY SHALL OPERATE ALL EXISTING WATER VALVES IF NEEDED.
- GRADES AT BUILDING EDGE SHALL BE 6" BELOW FINISHED FLOOR ELEVATION EXCEPT AT DOOR WAY ENTRANCES OR UNLESS OTHERWISE NOTED.

GRADING LEGEND:

EXISTING CONTOUR	679
PROPOSED CONTOUR	679
PROPOSED SPOT ELEVATION	679.00
PROPOSED ENDWALL INVERT ELEVATION	INV=679.00
PROPOSED RIM ELEVATION	RIM=679.00
PROPOSED TOP OF CURB ELEVATION	TC=679.00
PROPOSED FLOW LINE ELEVATION	FL=679.00
PROPOSED MATCH ELEVATION (CONTRACTOR TO VERIFY)	M679.00
PROPOSED TOP OF STAIR ELEVATION	TS=679.00
PROPOSED BOTTOM OF STAIR ELEVATION	BS=679.00
PROPOSED STORM MANHOLE	ST 1 C104
PROPOSED STORM INLET	I 1 C104



UTILITY DISCLAIMER

THE LOCATIONS, SIZES, AND TYPES OF UNDERGROUND PUBLIC AND PRIVATE UTILITIES OR SUBSTRUCTURES SHOWN HEREIN WERE OBTAINED FROM VISUAL INSPECTION, FIELD MEASUREMENTS, AND/OR AS-BUILT PLANS. SANITARY SEWER AND STORM SEWER PIPE SIZES, INVERTS, DIRECTION, AND LOCATIONS BENEATH MANHOLES ARE SUPPLEMENTED BY AS-BUILT PLANS AND/OR ESTIMATED BASED ON FIELD OBSERVATIONS. PRIOR TO CONSTRUCTION IN THE VICINITY OF ANY UTILITIES APPROXIMATELY 30 FT NORTH OF THE INTERSECTION OF LANCER BOULEVARD AND SOUTH 14TH STREET AND APPROXIMATELY 40 FT EAST OF THE ROAD CENTERLINE ELEVATION = 679.51

CLIENT

LA CRESCENT-HOKAH PUBLIC SCHOOLS
703 SOUTH 11TH STREET
LA CROSSE, MN 55947

OWNER

IND SCHOOL DISTRICT #300
510 OAK STREET
LA CRESCENT, MN 55947

BENCH MARK

ELEVATIONS ARE REFERENCED TO NAVD 88 DATUM.

BENCHMARK #1
BURY BOLT ON HYDRANT
EAST SIDE OF LANCER BOULEVARD, APPROXIMATELY 300 FT NORTH OF THE INTERSECTION OF LANCER BOULEVARD AND SOUTH 14TH STREET AND APPROXIMATELY 40 FT EAST OF THE ROAD CENTERLINE ELEVATION = 679.51

BENCHMARK #2
BURY BOLT ON HYDRANT
EAST SIDE OF LANCER BOULEVARD, APPROXIMATELY 30 FT SOUTH OF THE INTERSECTION OF LANCER BOULEVARD AND WILLOW STREET AND APPROXIMATELY 25 FT EAST OF THE ROAD CENTERLINE ELEVATION = 676.64

BENCHMARK #3
NORTHEAST TOP OF FLANGE BOLT ON HYDRANT
SOUTHEAST CORNER OF THE INTERSECTION OF LANCER BOULEVARD AND SOUTH 14TH STREET, APPROXIMATELY 30 FT EAST OF THE LANCER BOULEVARD CENTERLINE ELEVATION = 678.18

BENCHMARK #4
BURY BOLT ON HYDRANT
NORTHWEST CORNER OF THE INTERSECTION OF LANCER BOULEVARD AND 12TH STREET, APPROXIMATELY 35 FT WEST OF THE LANCER BOULEVARD CENTERLINE ELEVATION = 678.45

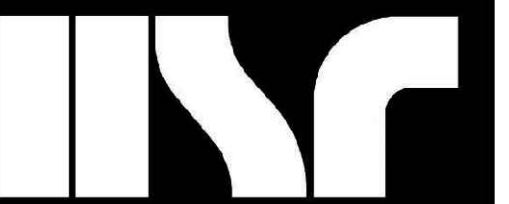
BENCHMARK #5
SOUTHEAST TOP OF FLANGE BOLT ON HYDRANT
EAST SIDE OF MIDDLE/HIGH SCHOOL NEAR NORTHEAST CORNER, APPROXIMATELY 20 FT PERPENDICULAR FROM THE EASTERN SCHOOL WALL ELEVATION = 679.81

BENCHMARK #6
NORTHWEST TOP OF FLANGE BOLT ON HYDRANT
NORTHWEST CORNER OF LANCER BOULEVARD AND 11TH STREET, APPROXIMATELY 340 FT NORTH OF THE INTERSECTION OF LANCER BOULEVARD AND 11TH STREET AND APPROXIMATELY 20 FT NORTH OF THE 11TH STREET CENTERLINE ELEVATION = 676.59

BENCHMARK #7
60D SPIKE IN POWER POLE
NORTH SIDE OF SOUTH 11TH STREET, APPROXIMATELY 290 FT EAST OF THE CORNER OF LANCER BOULEVARD AND SOUTH 11TH STREET AND APPROXIMATELY 30 FT NORTH OF ROAD CENTERLINE ELEVATION = 668.89

BENCHMARK #8
60D SPIKE IN POWER POLE
SOUTH SIDE OF SOUTH 14TH STREET, APPROXIMATELY 770 FT EAST OF THE INTERSECTION OF SOUTH 14TH STREET AND LANCER BOULEVARD AND APPROXIMATELY 30 FT SOUTHEAST OF ROAD CENTERLINE ELEVATION = 673.84

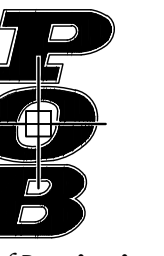
BENCHMARK #9
WEST TOP OF FLANGE BOLT ON HYDRANT
NEAR 1700 LANCER BOULEVARD AT THE SOUTH MOST END, APPROXIMATELY 900 FT SOUTH OF THE INTERSECTION LANCER BOULEVARD AND WILLOW STREET ELEVATION = 676.75



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4941 Knashing Court
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Project Title: **LA CRESCENT - HOKAH PUBLIC SCHOOLS
HIGH SCHOOL / MIDDLE SCHOOL**
Project Location: **1301 LANCER BOULEVARD
LA CRESCENT, MINNESOTA 55947**
Sheet Title: **EROSION CONTROL PLAN**

HSR Project Number: **1904-1**

Project Date: **3.5.2020**

Drawn By: **JJL**

I hereby certify that this plan, specification, or report was prepared by me or under my direct supervision, and that I am a duly Licensed Professional Engineer under the laws of the State of Minnesota.

Date: **James J. Lundberg, P.E.**
Registration No. **44630**

BID DOCUMENTS

No.	Description	Date
1	ADDENDUM #1	8/16/2020

Graphic Scale: **SEE SCALE NOTE**

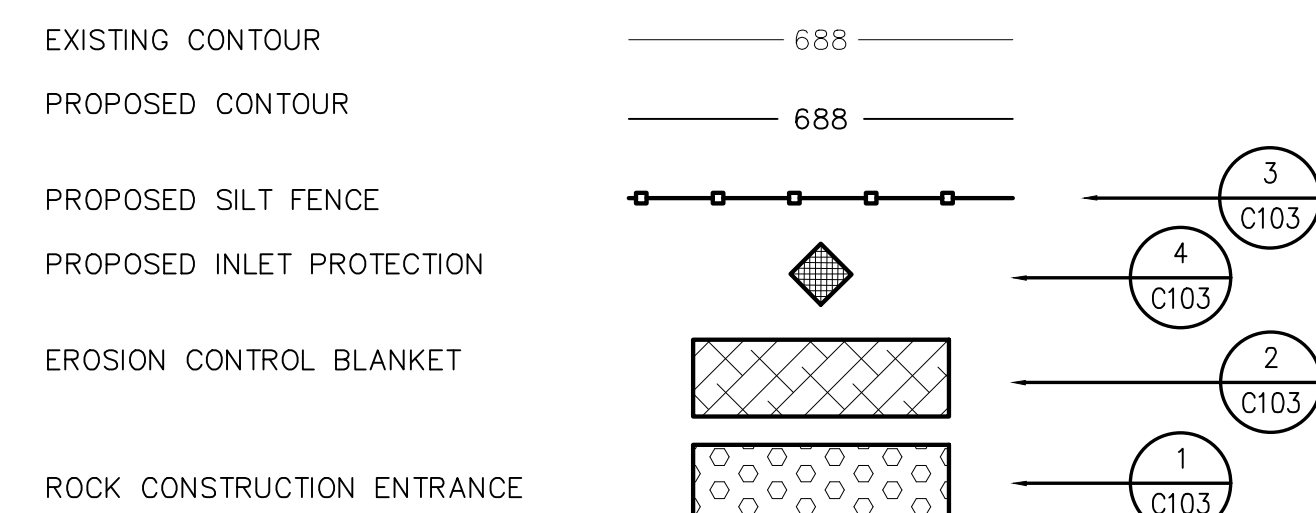
Last Update: **3/12/2020**

C103

GENERAL NOTES:

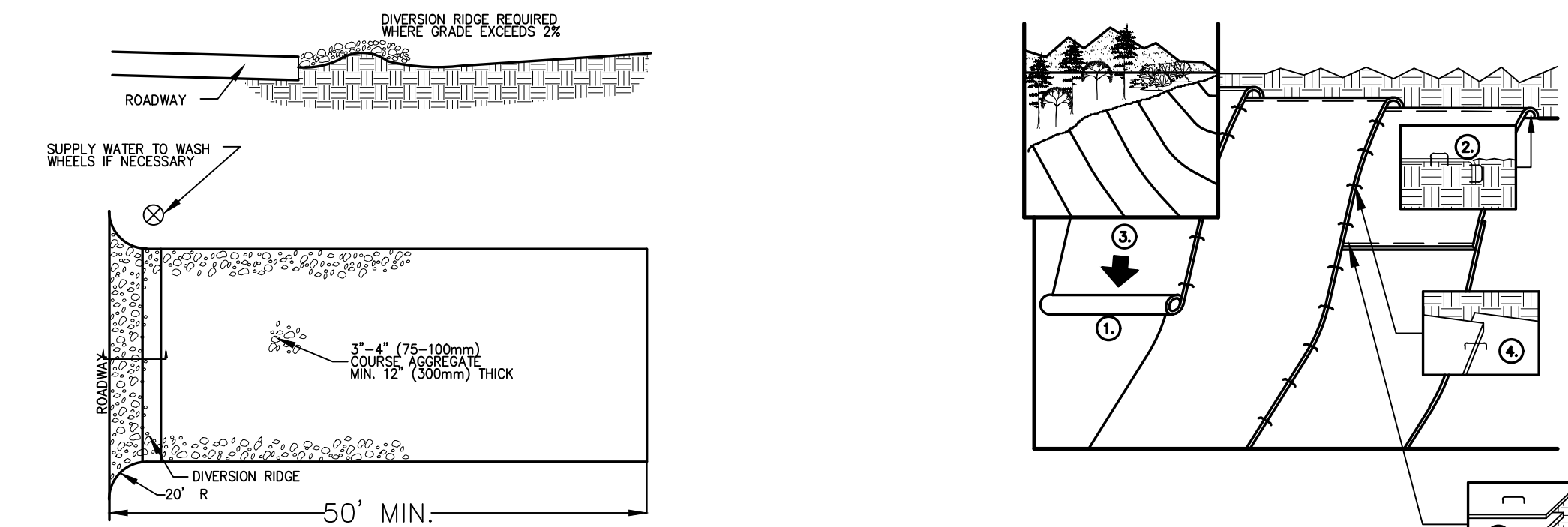
- CONTACT GOPHER STATE ONE CALL (651-454-0002) 5 WORKING DAYS PRIOR TO THE START OF DEMOLITION/CONSTRUCTION. NOTIFY THE LOCAL MUNICIPALITY AT LEAST 2 WORKING DAYS PRIOR TO THE START OF SOIL DISTURBING ACTIVITIES.
- INSTALL ALL TEMPORARY EROSION CONTROL ELEMENTS PRIOR TO THE START OF DEMOLITION/CONSTRUCTION.
- ALL ACTIVITIES SHALL BE CONDUCTED IN A LOGICAL SEQUENCE AS TO MINIMIZE THE AMOUNT OF BARE SOIL EXPOSED AT ANY ONE TIME. MAINTAIN EXISTING VEGETATION AS LONG AS POSSIBLE.
- CRUSHED ROCK DRIVES FOR SEDIMENT TRACKING UTILIZING 3" CRUSHED ROCK SHALL BE MAINTAINED AT ALL CONSTRUCTION ENTRANCES TO THE SITE. THE ROCK DRIVE SHALL BE A MINIMUM OF 12" THICK AND BE A MINIMUM OF 50 FEET IN LENGTH BY THE WIDTH OF THE DRIVEWAY.
- OFF SITE SEDIMENT DEPOSITS OCCURRING AS A RESULT OF A STORM EVENT SHALL BE CLEANED UP BY THE END OF THE NEXT WORK DAY. ALL OFF SITE SEDIMENT DEPOSITS OCCURRING AS A RESULT OF CONSTRUCTION ACTIVITIES, INCLUDING SOIL TRACKED BY CONSTRUCTION TRAFFIC, SHALL AT A MINIMUM BE CLEANED BY THE END OF EACH WORK DAY. EXCESSIVE AMOUNTS OF SEDIMENT OR OTHER DEBRIS TRACKED ONTO ADJACENT STREETS SHALL BE CLEANED BY THE END OF EACH WORK DAY. EXCESSIVE AMOUNTS OF SEDIMENT OR OTHER DEBRIS TRACKED ONTO ADJACENT STREETS SHALL BE CLEANED IMMEDIATELY. FINE SEDIMENT ACCUMULATIONS SHALL BE CLEANED FROM ADJACENT STREETS BY THE USE OF MECHANICAL OR MANUAL SWEEPING OPERATIONS ONCE A WEEK AT A MINIMUM AND BEFORE IMMINENT RAIN EVENTS.
- DISTURBED GROUND OUTSIDE OF THE EVERYDAY CONSTRUCTION AREAS, INCLUDING SOIL STOCKPILES, THAT ARE LEFT INACTIVE FOR MORE THAN 7 DAYS SHALL BE TEMPORARILY STABILIZED BY SEEDING/MULCHING OR OTHER APPROVED METHODS.
- WASTE MATERIAL THAT IS GENERATED ON THE CONSTRUCTION SITE SHALL BE PROPERLY DISPOSED OF AND NOT ALLOWED TO RUN INTO RECEIVING WATERS.
- EROSION CONTROL DEVICES DESTROYED AS A RESULT OF CONSTRUCTION ACTIVITIES SHALL BE REPAIRED BY THE END OF EACH WORK DAY.
- INSPECT ALL EROSION CONTROL MEASURES AT LEAST ONCE A WEEK AND AFTER ANY RAINFALL OF 0.5" OR MORE. MAKE NEEDED REPAIRS AND DOCUMENT ALL ACTIVITIES AS PER THE REQUIREMENTS OF THE NOTICE OF INTENT SUBMITTED BY THE PROJECT CIVIL ENGINEER.
- ALL TEMPORARY EROSION CONTROL ELEMENTS SHALL REMAIN IN PLACE UNTIL A SUFFICIENT GROWTH OF VEGETATION IS ESTABLISHED AND THEN BE REMOVED AS PART OF THE BASE BID.
- IF SEDIMENT LADEN WATER NEEDS TO BE REMOVED FROM THE SITE, FILTER BAGS OR SCREENING SHALL BE USED TO PREVENT THE DISCHARGE OF SEDIMENT TO THE MAXIMUM EXTENT PRACTICABLE.
- IF BARE SOIL IS EXPOSED DURING THE WINTER MONTHS, STABILIZATION BY MULCHING OR ANIONIC POLYACRYLAMIDE SHALL OCCUR PRIOR TO SNOW OR FROZEN GROUND.
- SILT FENCE SHALL BE INSTALLED AROUND THE TOPSOIL STOCKPILE(S).
- THE CONTRACTOR SHALL PERFORM INSPECTIONS AND MONITORING OF EROSION CONTROL PRACTICES IN ACCORDANCE WITH THE MINNESOTA GENERAL PERMIT PART IV, "CONSTRUCTION ACTIVITY REQUIREMENTS".
- SEED, FERTILIZE, AND CRIMP HAY MULCH OR PLACE EROSION MAT AS SHOWN ON ALL GENERAL LANDSCAPE AREAS DISTURBED DURING CONSTRUCTION.

EROSION CONTROL LEGEND:



EROSION CONTROL SEQUENCING

- INSTALL PERIMETER EROSION CONTROL.
- BEGIN DEMOLITION.
- BEGIN ROUGH GRADING AND UTILITY INSTALLATION.
- DURING GRADING ACTIVITIES EXISTING GRASS AND VEGETATION, TO BE REMOVED, SHALL REMAIN IN PLACE FOR AS LONG AS POSSIBLE, TO AVOID SEDIMENT TRANSPORT.
- TEMPORARY STABILIZATION ACTIVITY SHALL COMMENCE WHEN LAND DISTURBING CONSTRUCTION ACTIVITIES HAVE TEMPORARILY CEASED AND WILL NOT RESUME FOR A PERIOD EXCEEDING 14 CALENDAR DAYS.
- FINAL STABILIZATION ACTIVITY SHALL COMMENCE WHEN LAND DISTURBING ACTIVITIES CEASE AND FINAL GRADE HAS BEEN REACHED ON ANY PORTION OF THE SITE.
- IF DISTURBED AREAS MUST BE LEFT OVER WINTER, AN ANIONIC POLYACRYLAMIDE SHALL BE APPLIED TO ALL DISTURBED AREAS PRIOR TO GROUND FREEZE. SEE SPECIFICATIONS FOR DETAILS.



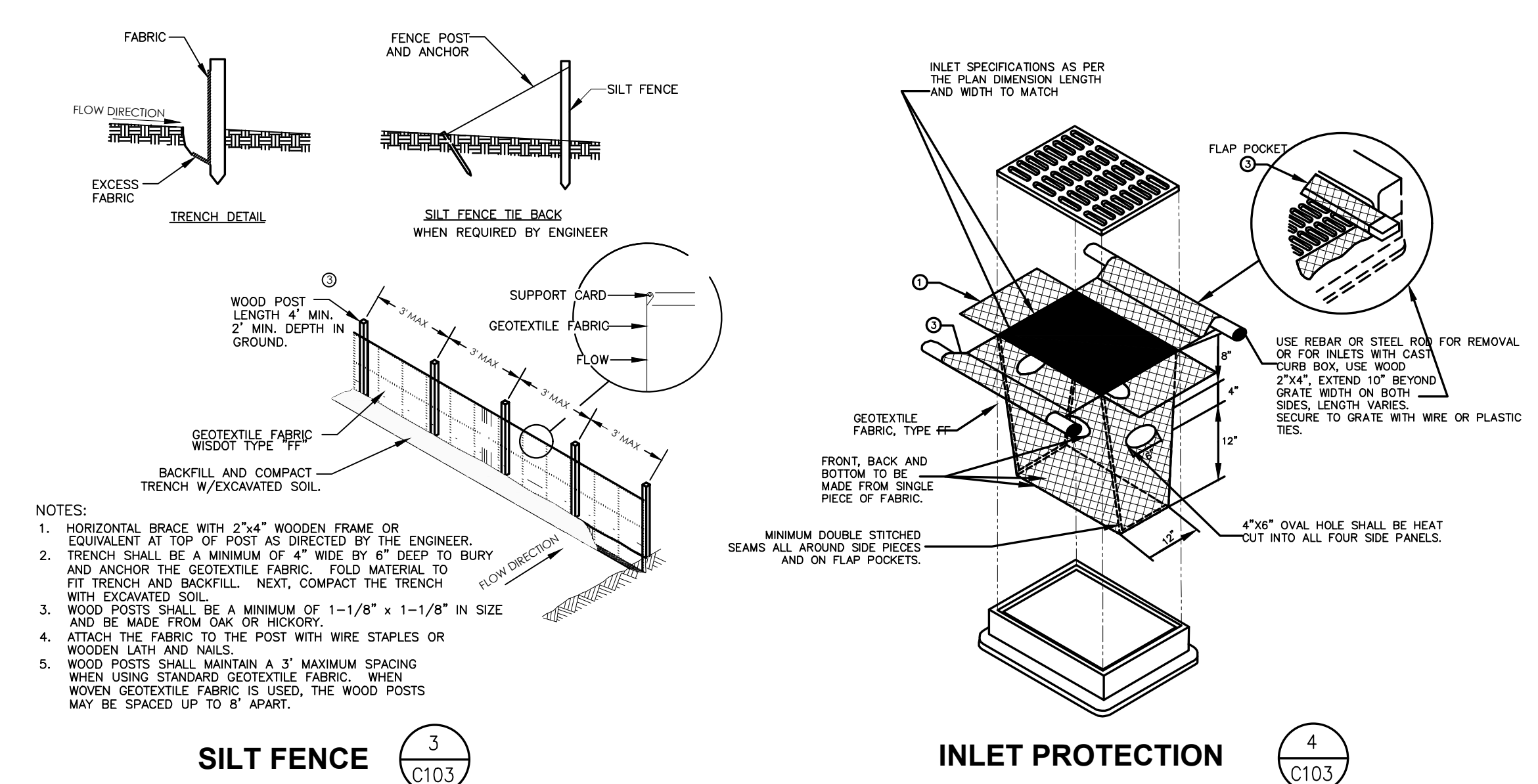
ROCK CONSTRUCTION ENTRANCE

1 C103

GENERAL NOTES:
1. PREPARE SOIL BEFORE INSTALLING BLANKETS, INCLUDING APPLICATION OF LIME, FERTILIZER, AND SEED. NOTE: WHEN USING CELL-O-SEED DO NOT SEED PREPARED AREA. CELL-O-SEED MUST BE INSTALLED WITH PAPER SIDE DOWN.
2. BEGIN AT THE TOP OF THE SLOPE BY ANCHORING THE BLANKET IN A 6" DEEP BY 6" WIDE TRENCH OF BACKFILL AND LEVELLED AND COMPACT THE TRENCH AFTER STARTING.
3. ROLL THE BLANKETS DOWN THE SLOPE IN THE DIRECTION OF THE WATER FLOW.
4. THE EDGES OF PARALLEL BLANKETS MUST BE STAPLED WITH APPROXIMATELY 2" OVERLAP. WHEN BLANKETS MUST BE SPICED DOWN THE SLOPE, PLACE BLANKETS END OVER END (SHINGLE STYLE) WITH APPROXIMATELY 6" OVERLAP. STAPLE THROUGH OVERLAPPED AREA APPROXIMATELY 12" APART.

EROSION CONTROL BLANKETS

2 C103



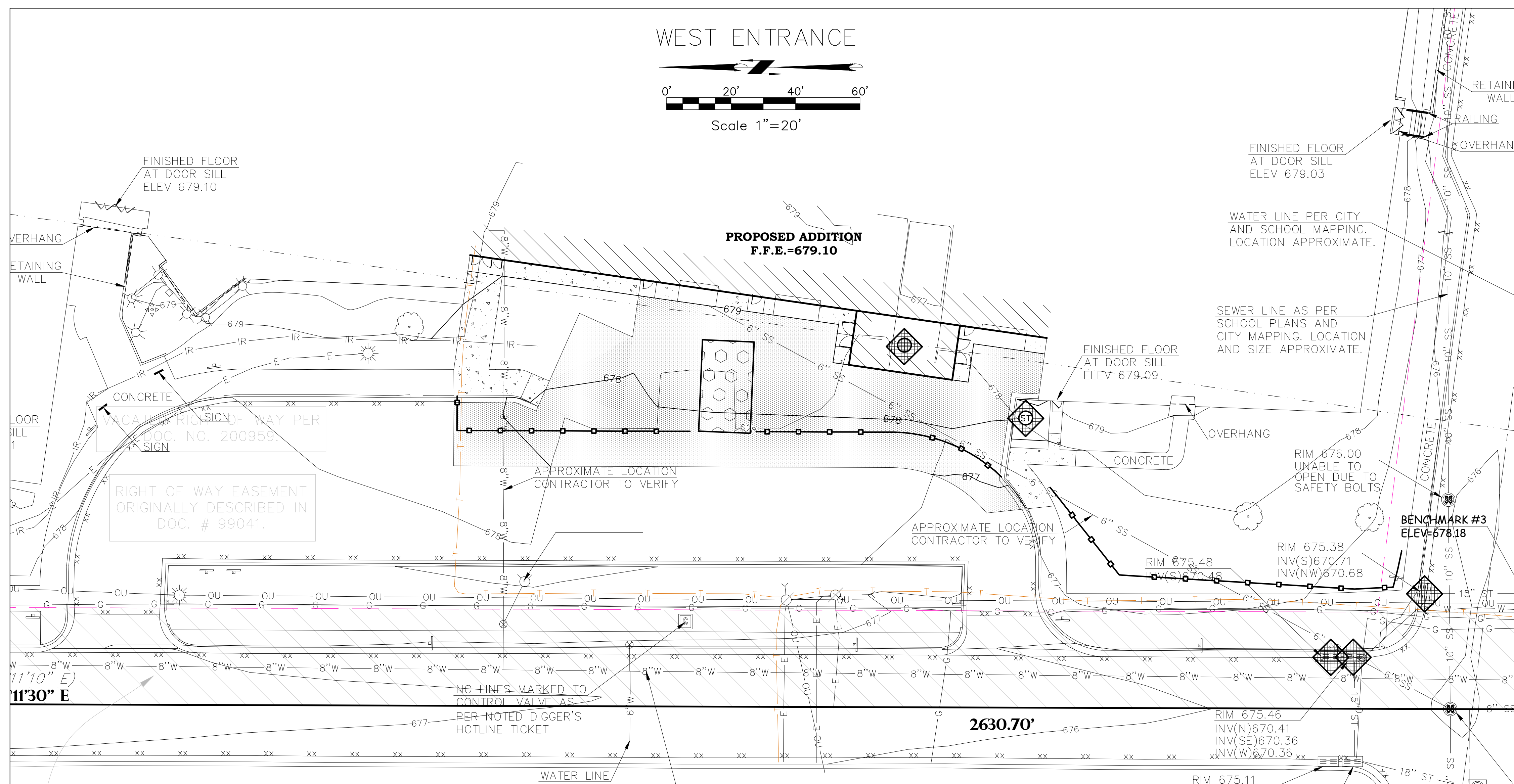
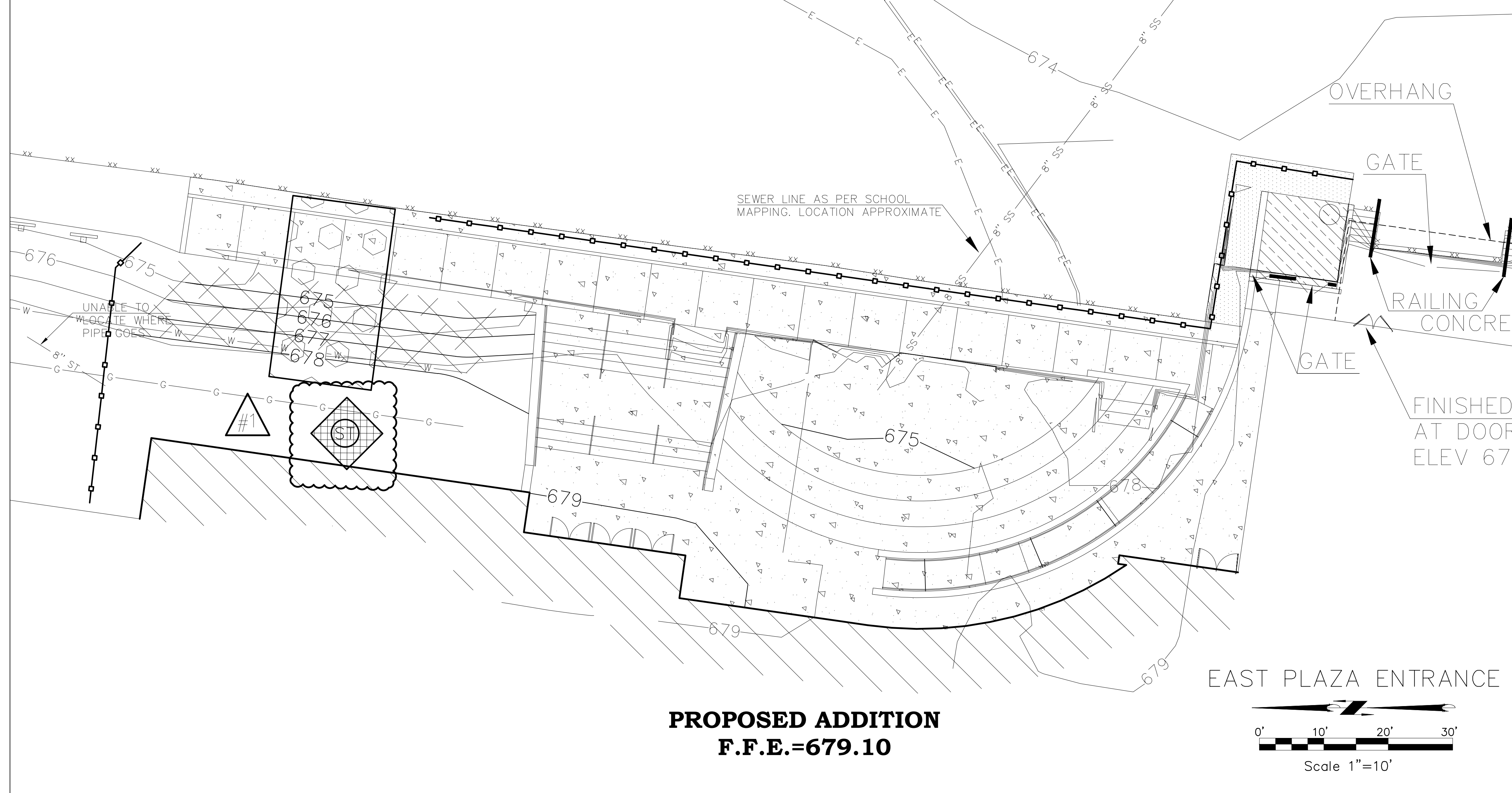
- NOTES:
1. HORIZONTAL BRACE WITH 2"x4" WOODEN FRAME OR EQUIVALENT AT TOP OF POST AS DIRECTED BY THE ENGINEER.
2. TRENCH SHALL BE A MINIMUM OF 4" WIDE BY 6" DEEP TO BURY AND ANCHOR THE GEOTEXTILE FABRIC. FOLD MATERIAL TO FIT TRENCH AND BACKFILL. NEXT, COMPACT THE TRENCH WITH A MINIMUM OF 1/2" SAND OR ROCKERY.
3. WOOD POSTS SHALL BE A MINIMUM OF 1-1/8" x 1-1/8" IN SIZE AND BE MADE FROM ANK OR HICKORY.
4. ATTACH THE FABRIC TO THE POST WITH WIRE STAPLES OR WOODEN LATH AND NAIL.
5. WOOD POSTS SHALL MAINTAIN A 3" MAXIMUM SPACING WHEN USING STAPLES. GEOTEXTILE FABRIC, WHEN WOVEN GEOTEXTILE FABRIC IS USED, THE WOOD POSTS MAY BE SPACED UP TO 8' APART.

SILT FENCE

3 C103

INLET PROTECTION

4 C103



UTILITY DISCLAIMER

THE LOCATIONS, SIZES, AND TYPES OF UNDERGROUND PUBLIC AND PRIVATE UTILITIES OR SUBSTRUCTURES SHOWN HEREIN WERE OBTAINED FROM VISUAL INSPECTION, FIELD MEASUREMENTS, AND/OR AS-BUILT PLANS. SANITARY SEWER AND STORM SEWER PIPE SIZES, INVERTS, DIRECTION, AND LOCATIONS ESTIMATED BASED ON FIELD OBSERVATIONS. PRIOR TO CONSTRUCTION IN THE VICINITY OF ANY UTILITIES SHOWN HEREIN, IT IS RECOMMENDED THAT CONTRACTORS CONSULT WITH THE CITY OF LA CROSSE TO VERIFY THE LOCATION, DEPTH, AND SIZE OF ANY UTILITIES SHOWN HEREIN AND ONLY APPROXIMATELY. THE INFORMATION CONTAINED HEREIN IS RELIABLE AND GENERALLY ACCURATE FOR THE PURPOSE INTENDED.

BENCH MARK

ELEVATIONS ARE REFERENCED TO NAVD 88 DATUM.
BENCHMARK #1
BURY BOLT ON HYDRANT EAST SIDE OF LANCER BOULEVARD, APPROXIMATELY 300 FT NORTH OF THE INTERSECTION OF LANCER BOULEVARD AND SOUTH 14TH STREET AND APPROXIMATELY 40 FT EAST OF THE ROAD CENTERLINE ELEVATION = 679.51
BENCHMARK #2
BURY BOLT ON HYDRANT EAST SIDE OF LANCER BOULEVARD, APPROXIMATELY 30 FT SOUTH OF THE INTERSECTION OF LANCER BOULEVARD AND WILLOW STREET AND APPROXIMATELY 25 FT EAST OF THE ROAD CENTERLINE ELEVATION = 676.64
BENCHMARK #3
NORTHEAST TOP OF FLANGE BOLT ON HYDRANT SOUTHWEST CORNER OF THE INTERSECTION OF LANCER BOULEVARD AND SOUTH 14TH STREET, APPROXIMATELY 30 FT EAST OF THE 11TH STREET CENTERLINE ELEVATION = 678.18

BENCHMARK #4
BURY BOLT ON HYDRANT NORTHWEST CORNER OF THE INTERSECTION OF LANCER BOULEVARD AND 12TH STREET, APPROXIMATELY 35 FT WEST OF THE LANCER BOULEVARD CENTERLINE ELEVATION = 678.45
BENCHMARK #5
SOUTHEAST TOP OF FLANGE BOLT ON HYDRANT EAST SIDE OF MIDDLE/HIGH SCHOOL NEAR NORTHEAST CORNER, APPROXIMATELY 30 FT PERPENDICULAR FROM THE EASTERN SCHOOL WALL ELEVATION = 679.81
BENCHMARK #6
NORTHWEST TOP OF FLANGE BOLT ON HYDRANT NORTHWEST CORNER OF LANCER BOULEVARD AND 11TH STREET, APPROXIMATELY 340 FT NORTH OF THE INTERSECTION OF LANCER BOULEVARD AND 11TH STREET AND APPROXIMATELY 20 FT NORTH OF THE 11TH STREET CENTERLINE ELEVATION = 676.59
BENCHMARK #7
60D SPIKE IN POWER POLE NORTH SIDE OF SOUTH 11TH STREET, APPROXIMATELY 290 FT EAST OF THE CORNER OF LANCER BOULEVARD AND SOUTH 11TH STREET AND APPROXIMATELY 30 FT NORTH OF ROAD CENTERLINE ELEVATION = 668.89
BENCHMARK #8
60D SPIKE IN POWER POLE SOUTH SIDE OF SOUTH 14TH STREET, APPROXIMATELY 770 FT EAST OF THE INTERSECTION OF SOUTH 14TH STREET AND LANCER BOULEVARD AND APPROXIMATELY 30 FT SOUTH-EAST OF ROAD CENTERLINE ELEVATION = 673.84
BENCHMARK #9
WEST TOP OF FLANGE BOLT ON HYDRANT NEAR 1700 LANCER BOULEVARD AT THE SOUTH MOST END, APPROXIMATELY 900 FT SOUTH OF THE INTERSECTION LANCER BOULEVARD AND WILLOW STREET ELEVATION = 676.75

CLIENT
LA CRESCENT-HOKAH PUBLIC SCHOOLS
703 SOUTH 11TH STREET
LA CRESCENT, MN 55947

OWNER
IND SCHOOL DISTRICT #300
510 OAK STREET
LA CRESCENT, MN 55947

Revisions:	No.	Description	Date
	1	ADDENDUM #1	8/16/2020
Graphic Scale:	SEE SCALE NOTE		
Last Update:	3/12/2020		

GENERAL NOTES:

- CONTACT GOPHER STATE ONE CALL 5 (651-454-0002) WORKING DAYS PRIOR TO THE START OF CONSTRUCTION.
- GRADE, LINE, AND LEVEL TO BE REVIEWED IN THE FIELD BY THE CONSTRUCTION MANAGER.
- ANY EXISTING UTILITIES NOT SHOWN ON THIS DOCUMENT WHICH NEED TO BE REMOVED, RELOCATED AND OR ADJUSTED SHALL BE THE RESPONSIBILITY OF THE SITE GRADING CONTRACTOR.
- REFER TO THE PROPOSED BUILDING MECHANICAL/PLUMBING PLANS FOR EXACT CONNECTION LOCATIONS AND VERIFY SANITARY SEWER LATERAL.
- COORDINATE ALL UTILITY WORK WITH GAS, ELECTRICAL, (INCLUDING MAIN SERVICE, SITE LIGHTING, CONDUITS AND SIGNAGE) CABLE AND TELEPHONE CONSTRUCTION AND RESPECTIVE TRADES RESPONSIBLE FOR INSTALLATION OF SAID UTILITIES.
- COORDINATE ALL WORK WITHIN THE PUBLIC RIGHT OF WAY WITH THE LOCAL MUNICIPALITY.
- ALL TESTING AND INSPECTION SHALL BE DONE IN ACCORDANCE WITH THE MUNICIPALITY.
- THE PROPOSED WATER MAIN SHALL HAVE A MINIMUM COVER OF 7'-0" TO THE TOP OF PIPE FROM THE PROPOSED FINISHED GRADES, SEE SHEET C102 FOR PROPOSED GRADES.
- THE MUNICIPALITY SHALL BE CONTACTED PRIOR TO ANY EXCAVATION IN THE PUBLIC RIGHT-OF-WAY. THE CONTRACTOR SHALL HAVE HIS TRAFFIC CONTROL PLAN APPROVED PRIOR TO WORK COMMENCING. THE MUNICIPALITY SHALL OPERATE ALL EXISTING WATER VALVES IF NEEDED.

UTILITY LEGEND:

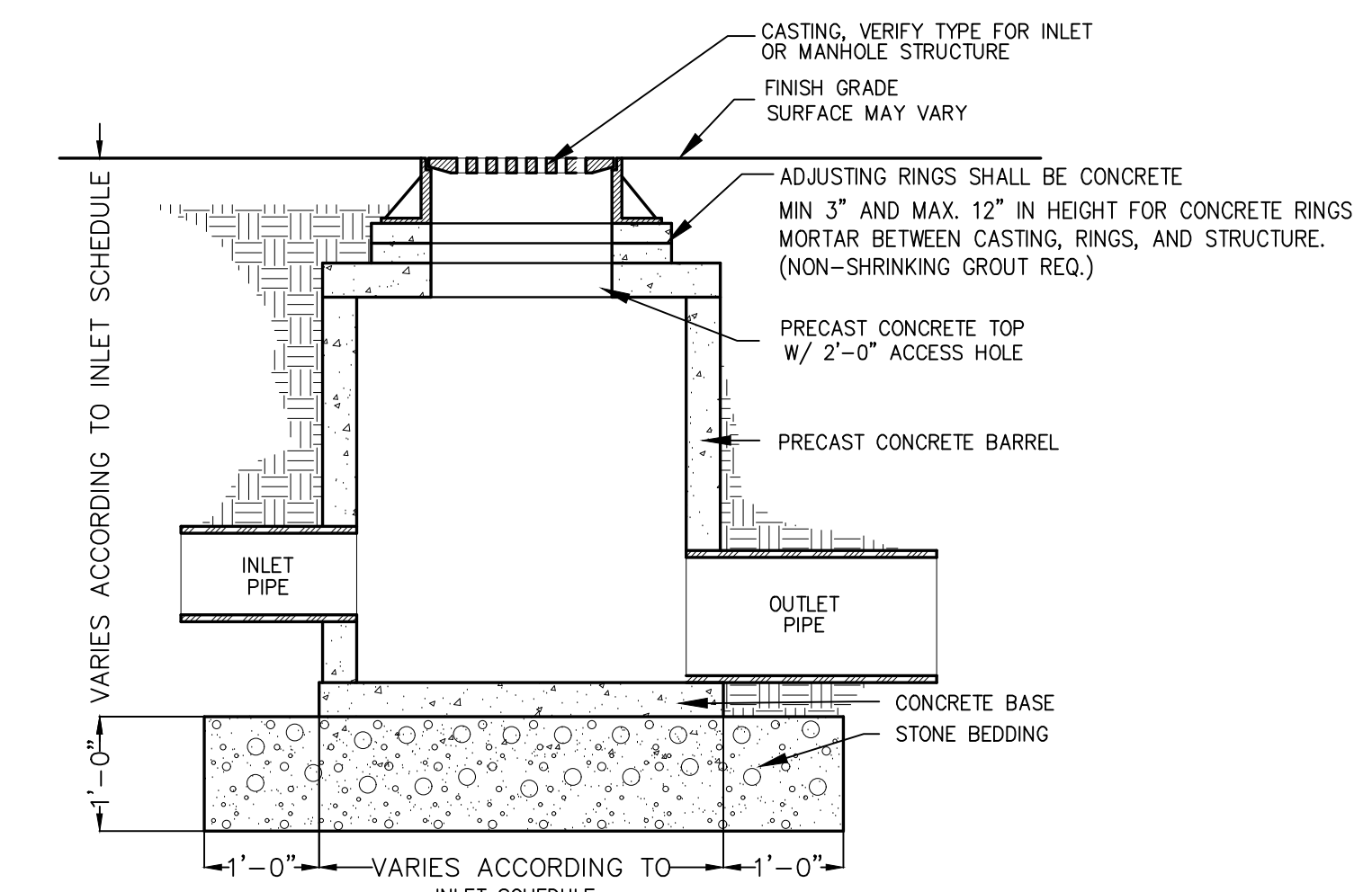


STORM MANHOLE SCHEDULE:

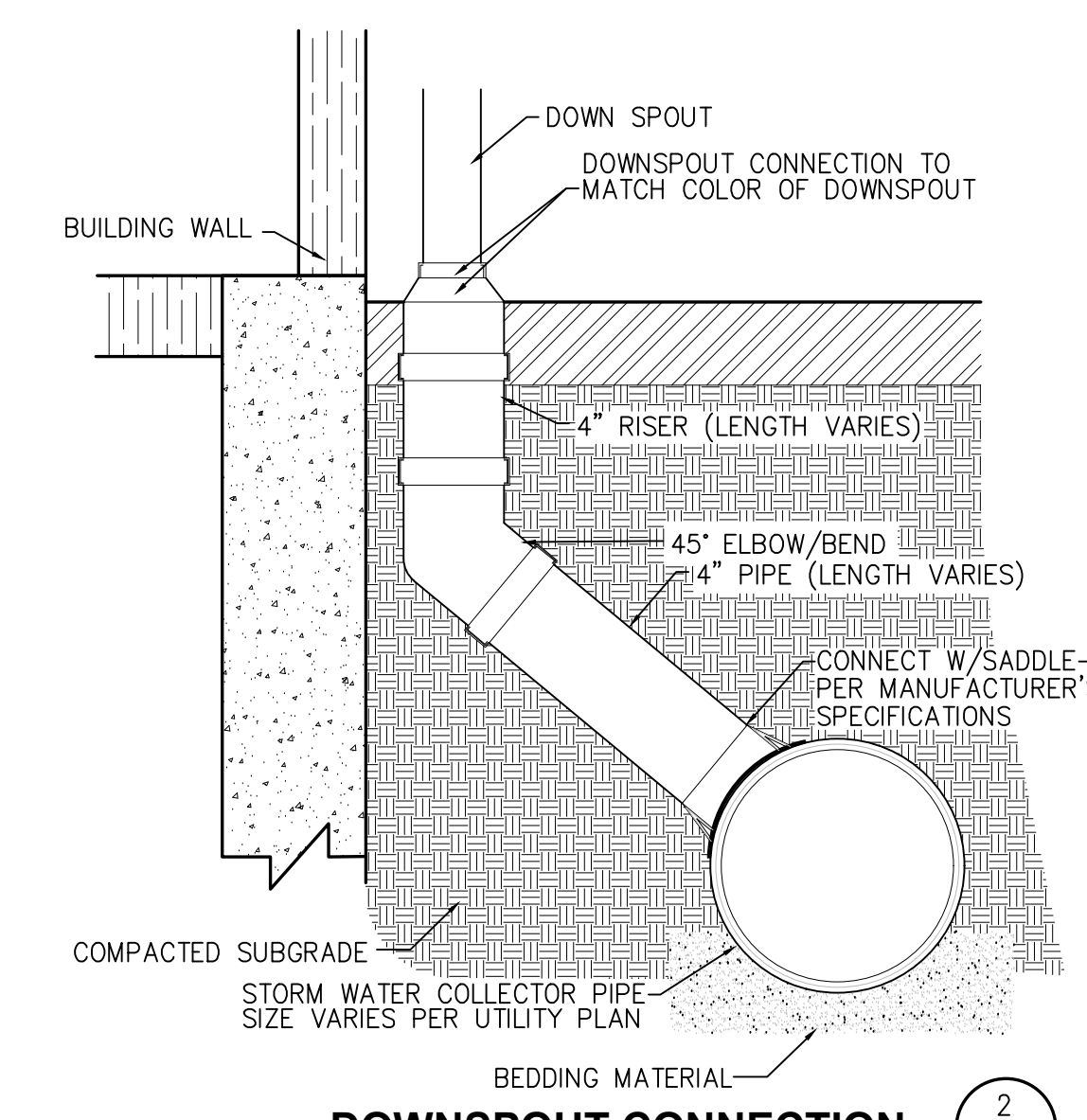
ST#1	ST#2	ST#3
RIM 678.25 INV. E 671.69 INV. SW 671.36 INV. NE 671.69	RIM 678.85 INV. SW 671.80	RIM 678.50 INV. W MATCH FROM EX INV. N MATCH FROM EX
DEPTH 6.89 48" LD. PRECAST MANHOLE W/ NEENAH R-2556 W/ SOLID COVER	DEPTH 7.05 48" LD. PRECAST MANHOLE W/ NEENAH R-2556 W/ TYPE G GRATE	DEPTH MATCH FROM EX 48" LD. PRECAST MANHOLE W/ NEENAH R-2556 W/ SOLID COVER

ROOF DRAIN SCHEDULE:

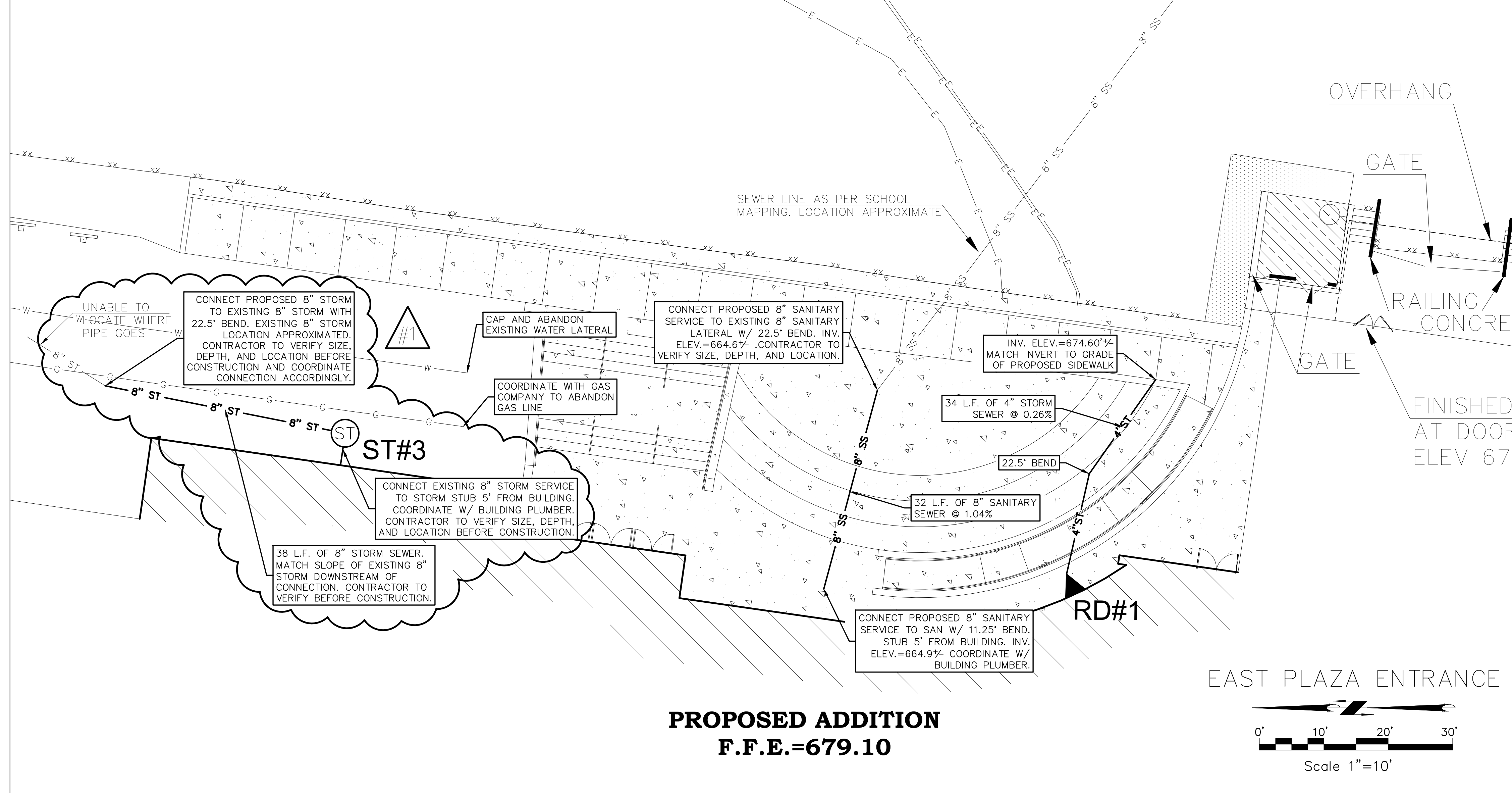
RD#1
RIM 678.85 INV. 674.69



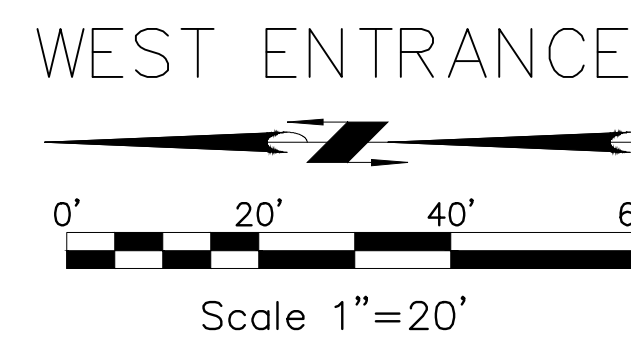
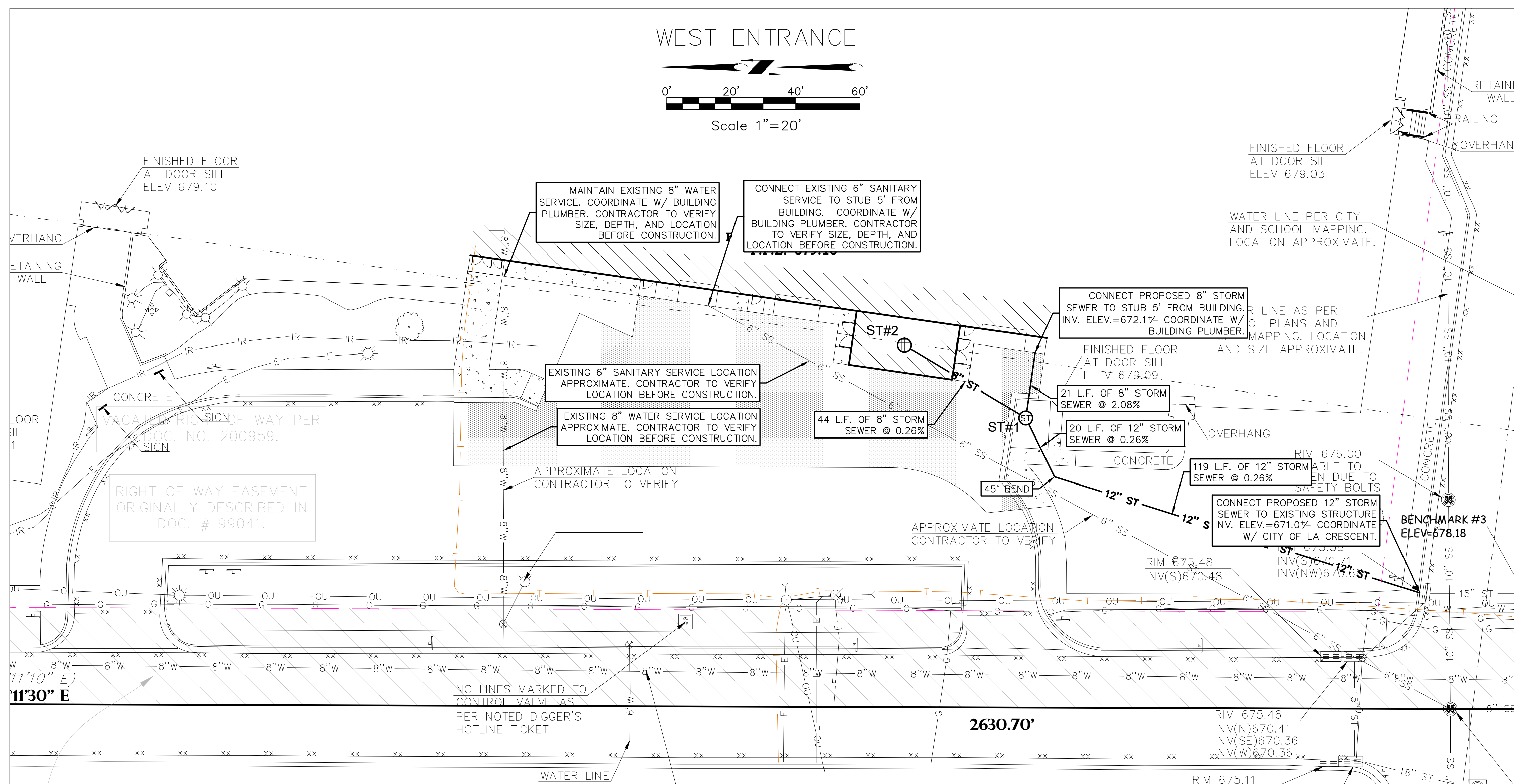
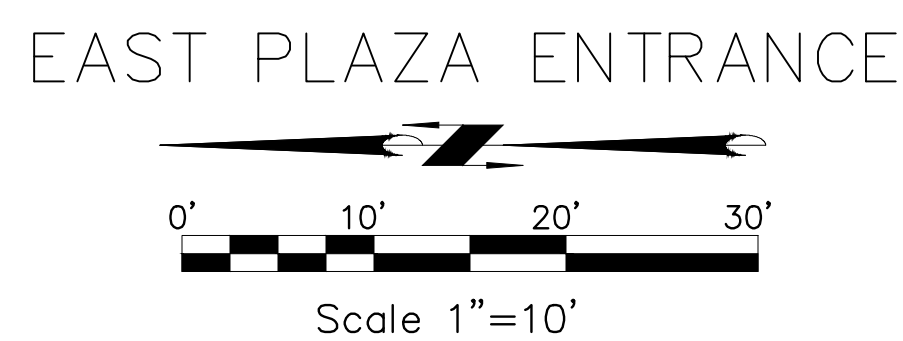
SECTION VIEW
STORM SEWER MANHOLE 1 C104



DOWNSPOUT CONNECTION 2 C104



**PROPOSED ADDITION
F.F.E.=679.10**



UTILITY DISCLAIMER

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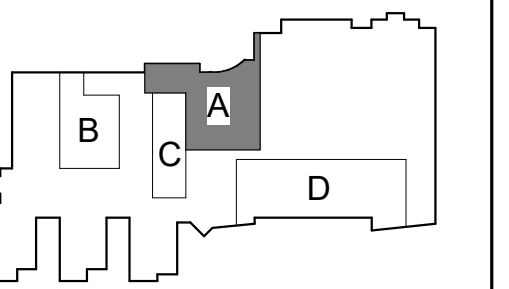
BENCH MARK

ELEVATIONS ARE REFERENCED TO NAVD 88 DATUM.

- BENCH MARK #1**
BURY BOLT ON HYDRANT
EAST SIDE OF LANCER BOULEVARD, APPROXIMATELY 300FT NORTH OF THE INTERSECTION OF LANCER BOULEVARD AND SOUTH 14TH STREET AND APPROXIMATELY 40FT EAST OF THE ROAD CENTERLINE
ELEVATION = 679.51
- BENCH MARK #2**
BURY BOLT ON HYDRANT
EAST SIDE OF LANCER BOULEVARD, APPROXIMATELY 35FT SOUTH OF THE INTERSECTION OF LANCER BOULEVARD AND WILLOW STREET AND APPROXIMATELY 25FT EAST OF THE ROAD CENTERLINE
ELEVATION = 676.64
- BENCH MARK #3**
NORTHEAST TOP OF FLANGE BOLT ON HYDRANT
SOUTHEAST CORNER OF THE INTERSECTION OF LANCER BOULEVARD AND SOUTH 14TH STREET, APPROXIMATELY 30FT EAST OF THE LANCER BOULEVARD CENTERLINE
ELEVATION = 678.18

- BENCH MARK #4**
BURY BOLT ON HYDRANT
NORTHWEST CORNER OF THE INTERSECTION OF LANCER BOULEVARD AND 12TH STREET, APPROXIMATELY 35FT WEST OF THE LANCER BOULEVARD CENTERLINE
ELEVATION = 678.45
- BENCH MARK #5**
SOUTHEAST TOP OF FLANGE BOLT ON HYDRANT
EAST SIDE OF MIDDLE/HIGH SCHOOL NEAR NORTHEAST CORNER, APPROXIMATELY 30 FT PERPENDICULAR FROM THE EASTERN SCHOOL WALL
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60D SPIKE IN POWER POLE
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ELEVATION = 676.75



No.	Description	Date
1	ADDENDUM 1	3/16/20

Graphic Scale:
0' 2' 4' 8' 12'

Last Update:
3/16/2020 4:57:20 PM

REMOVAL GENERAL NOTES:

- A ALL STRUCTURES SHOWN DASHED ON THIS PLAN SHALL BE COMPLETELY REMOVED FROM THE SITE AND DISPOSED OF BY THE CONTRACTOR UNLESS OTHERWISE NOTED. REFERENCE MEP SHEETS FOR ALL EQUIPMENT REMOVALS AND MODIFICATIONS. TIME AND METHODS SHALL BE COORDINATED WITH AND AGREED TO BY THE OWNER AND ARCHITECT. THIS SHALL INCLUDE ALL ELECTRICAL, MECHANICAL, OR PLUMBING WITHIN THE REMOVED STRUCTURE. TERMINATE AND CAP MEP AS REQUIRED. DO NOT ABANDON IN PLACE UNUSED CONDUIT, PIPES, ETC. REMOVE COMPLETELY. VERIFY GENERAL CONDITIONS IN FIELD PRIOR TO BIDDING.
- COORDINATE REMOVAL AND PATCHING WITH MEP DRAWINGS. PATCH TO MATCH EXISTING ADJACENT CONDITIONS.
- B PREPARATION FOR NEW FINISHES SHALL INCLUDE BUT NOT LIMITED TO REMOVAL OF EXISTING FINISHES. REMOVAL OF TAPES, GLUES (MASTIC), WALLS, ETC. PATCHING OF HOLES AND CRACKS TO PROVIDE AN ACCEPTABLE SURFACE FOR NEW FINISH INSTALLATION.
- C OWNER WILL REMOVE LOOSE FURNISHINGS AND EQUIPMENT FROM THE WORK AREA PRIOR TO START OF CONSTRUCTION.
- D DELIVERY ROUTE AND TIMES FOR NEW MATERIALS AND EQUIPMENT SHALL BE COORDINATED WITH AND AGREED TO BY THE OWNER.
- E MAINTAIN ALL EXIT DOORS AND CORRIDORS IN UNOBSTRUCTED OPERABLE CONDITION WITH SAFE PASSAGE AWAY FROM THE BUILDING. COORDINATE WITH LOCAL FIRE MARSHAL AS REQUIRED.
- F ROOM NUMBERS ARE SHOWN ON THIS PLAN FOR INFORMATIONAL AND COORDINATE PURPOSES ONLY.
- G CONTRACTOR SHALL BE RESPONSIBLE FOR ALL SHORING, BRACING, ETC. AS REQUIRED FOR THE WORK.
- H SEE MECHANICAL, PLUMBING AND ELECTRICAL SHEETS FOR ADDITIONAL REMOVAL NOTES AND ITEMS.
- J COORDINATE REMOVAL AND PATCHING WITH MEP DRAWINGS. PATCH TO MATCH EXISTING ADJACENT CONDITIONS.
- K BIDDERS SHALL MAKE EVERY EFFORT TO VERIFY EXISTING CONDITIONS PRIOR TO BIDDING.
- L COORDINATE STORAGE LOCATIONS FOR SALVAGED EQUIPMENT, ACCESSORIES, ETC. WITH THE OWNER.
- M PROVIDE FLOOR PROTECTION AS SPECIFIED AT DEBRIS REMOVAL PATHS THROUGH BUILDING.

REMOVAL PLAN LEGEND:

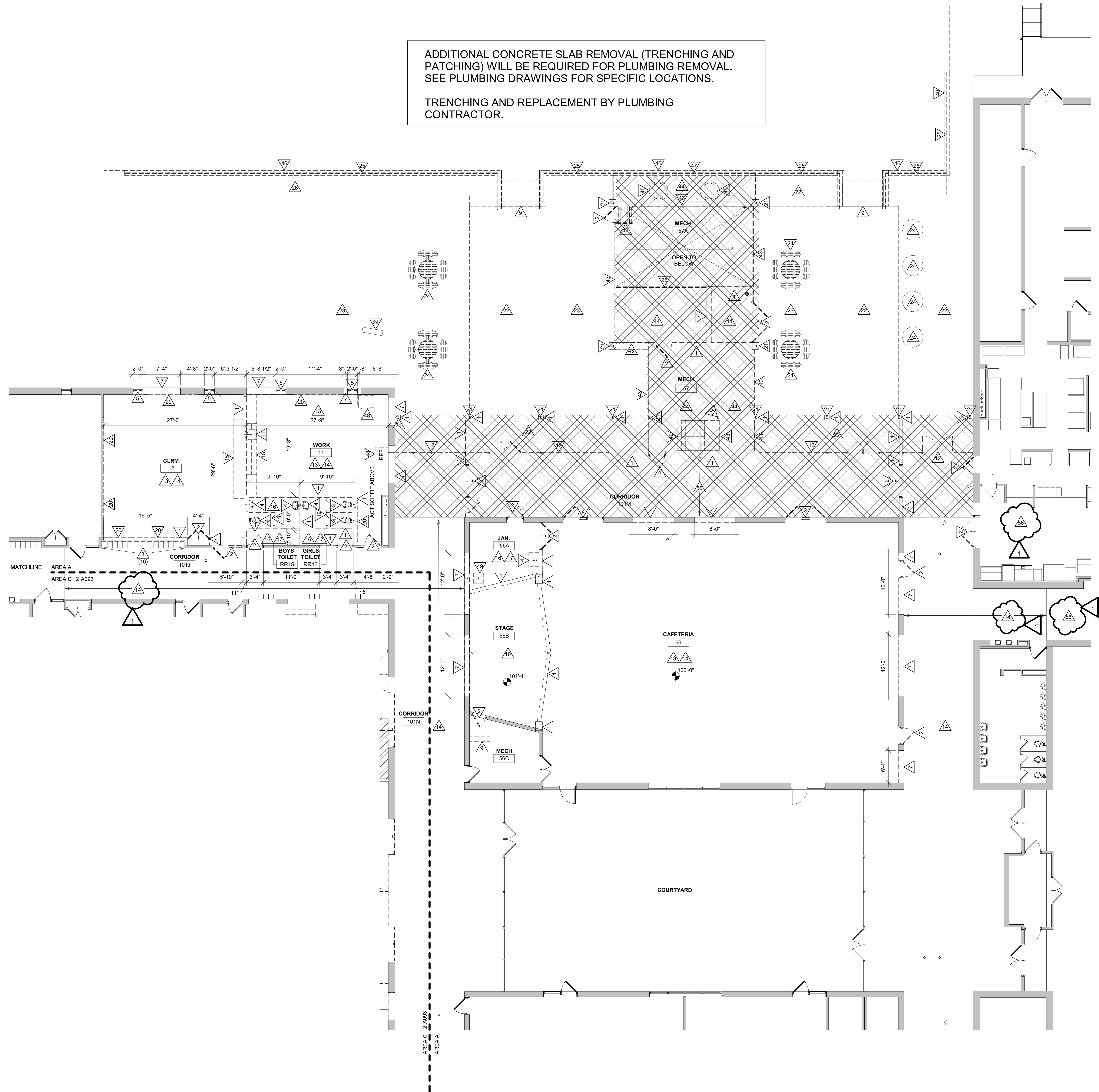
- SYMBOL INDICATES CONSTRUCTION NOTE THIS SHEET
- REMOVE ITEMS NOTED WITH DASHED LINES
- SYMBOL INDICATES REMOVAL OF DOOR AND FRAME UNLESS NOTED OTHERWISE
- REMOVE ENTIRE BUILDING AREA INCLUDING FOUNDATION WALLS AND FOOTINGS AT AREAS SHOWN CROSS HATCHED

KEY NOTES REMOVAL

- 1 REMOVE EXISTING NON-LOAD BEARING MASONRY WALL FULL HEIGHT.
- 2 REMOVE EXISTING DOOR, FRAME, SIDELIGHTS AND/OR TRANSOMS WHERE APPLICABLE. SALVAGE DOORS TO OWNER.
- 3 REMOVE EXISTING LOCKERS AND MASONRY BASE.
- 4 REMOVE EXISTING PLUMBING FIXTURES - SEE PLUMBING SHEETS.
- 5 REMOVE EXISTING ALUMINUM WINDOW AND STOOL.
- 6 PROVIDE OPENING IN EXISTING NON-LOAD BEARING MASONRY WALL FOR NEW DOOR/WINDOW. SEE STRUCTURAL FOR LINTEL.
- 7 PROVIDE OPENING IN EXISTING LOAD BEARING MASONRY WALL FOR NEW DOOR/WINDOW. SEE STRUCTURAL FOR LINTEL.
- 8 REMOVE EXISTING MASONRY VAULT WALLS AND CONCRETE LID.
- 9 REMOVE EXISTING CONCRETE STAIRS AND HANDRAILS.
- 10 REMOVE EXISTING RAISED CONCRETE FLOOR SLAB AT STAGE. EXCAVATE UNDER STAGE TO PREP FOR NEW FLOOR SLAB TO MATCH FLOOR ELEVATION IN CAFETERIA. SEE CIVIL SHEETS.
- 11 REMOVE EXISTING SINK - SEE PLUMBING SHEETS.
- 12 REMOVE EXISTING ALUMINUM STOREFRONT WINDOWS AND DOORS.
- 13 REMOVE EXISTING FLOORING (RESILIENT CARPET).
- 14 REMOVE EXISTING CEILING (ACT).
- 15 REMOVE EXISTING COUNTERTOPS, BASE AND WALL CABINETS AND/OR WALL MOUNTED SHELVING.
- 16 REMOVE EXISTING FLOORING (TILE/TERRAZZO).
- 17 REMOVE EXISTING CEILING (PLASTER/GYP).
- 18 REMOVE EXISTING WINDOW.
- 19 REMOVE EXISTING TOILET PARTITIONS AND BATHROOM ACCESSORIES.
- 20 REMOVE EXISTING SMARTBOARD, BULLETIN BOARD, WHITEBOARD OR BLACKBOARD. SALVAGE TO OWNER.
- 21 REMOVE EXISTING STRUCTURAL COLUMN - SEE STRUCTURAL SHEETS.
- 22 REMOVE EXISTING CONCRETE SLAB-ON-GRADE.
- 23 SEE CIVIL FOR SITE REMOVAL REQUIREMENTS.
- 24 REMOVE EXISTING CONCRETE FLOOR, TABLES, PLANTERS, AND BENCHES. COORDINATE W/ OWNER ON ITEMS TO BE SALVAGED. SEE CIVIL SHEETS.
- 25 REMOVE EXISTING METAL RAILINGS/GUARDRAILS.
- 26 REMOVE EXISTING SLAB-ON-GRADE CONCRETE RAMP.
- 27 REMOVE EXISTING CHAIR LIFT & EQUIPMENT.
- 28 REMOVE EXISTING FRIDGE. SALVAGE FOR RE-INSTALLATION IN RM 80A.
- 29 EXISTING COLUMN TO REMAIN.
- 30 REMOVE EXISTING BLOCK RETAINING WALL - SEE CIVIL SHEETS.
- 31 REMOVE EXISTING FRAMED STUD WALL.
- 32 REMOVE EXISTING TV, PROJECTOR AND/OR SPEAKERS - SEE ELECTRICAL SHEETS. SALVAGE TO OWNER.
- 33 REMOVE EXISTING DEMONSTRATION HOOD CASWORK & SINK - SEE MECHANICAL & PLUMBING SHEETS.
- 34 REMOVE EXISTING FRIDGE. SALVAGE FOR RE-INSTALLATION IN RM 31A.
- 35 REMOVE EXISTING VENT HOOD - SEE MECHANICAL SHEETS.
- 36 REMOVE EXISTING KILN.
- 37 REMOVE EXISTING ROOM PARTITION CURTAIN & TRACK.
- 38 REMOVE EXISTING WASHER & DRYER. SALVAGE FOR RE-INSTALLATION IN RM 70A.
- 39 REMOVE EXISTING RANGE. SALVAGE TO OWNER.
- 40 REMOVE EXISTING CAR LIFT.
- 41 REMOVE EXISTING WASHER & DRYER. SALVAGE FOR RE-INSTALLATION IN RM 56B.
- 42 REMOVE EXISTING METAL STAIR SYSTEM & RAILING.
- 43 REMOVE EXISTING INSULATED TRANSLUCENT WALL SYSTEM.
- 44 REMOVE EXISTING CONCRETE FLOOR SYSTEM.
- 45 REMOVAL OF EXISTING MECHANICAL EQUIPMENT - EXISTING BOILER REMOVAL N.C. SEE MECHANICAL SHEETS.
- 46 REMOVE EXISTING CONCRETE WALL.
- 47 REMOVE EXISTING CHAINLINK FENCE SYSTEM.
- 48 REMOVE EXISTING FRIDGE & POP MACHINE. SALVAGE FOR RE-INSTALLATION IN RM 51.
- 49 EXISTING RECESS MOP BASIN TO BE IN-FILLED - SEE PLUMBING SHEETS.
- 50 MECHANICAL TUNNEL UNDER TO REMAIN.
- 51 REMOVE CONCRETE WALL FOR NEW PLUMBING DRAIN AND SLOPED CONCRETE.
- 52 REMOVE WOOD WALL CLADDING.
- 53 EXISTING RECESSED CONCRETE SLAB TO REMAIN IN PLACE. NEW CONCRETE SLAB PLANNED OVER. SEE STRUCTURAL.
- 54 EXISTING SHOP EQUIPMENT REMOVED AND STORED BY OWNER.
- 55 SAWCUT TERRAZZO SLAB AND REMOVE FOR UNDERGROUND PLUMBING WORK.
- 56 EXISTING CEILING GRID TO REMAIN - SEE A110 FOR SCOPE. REMOVE & SALVAGE CEILING TILES FOR RE-INSTALLATION. COORDINATE W/ MECHANICAL & PLUMBING.

ADDITIONAL CONCRETE SLAB REMOVAL (TRENCHING AND PATCHING) WILL BE REQUIRED FOR PLUMBING REMOVAL. SEE PLUMBING DRAWINGS FOR SPECIFIC LOCATIONS.

TRENCHING AND REPLACEMENT BY PLUMBING CONTRACTOR.





Consultant:

Project Title: LA CRESCENT-HOKAH
HIGH SCHOOL/ MIDDLE SCHOOL

Project Location: 1301 LANCER BOULEVARD
LA CRESCENT, MINNESOTA

Project Number:

19014-1

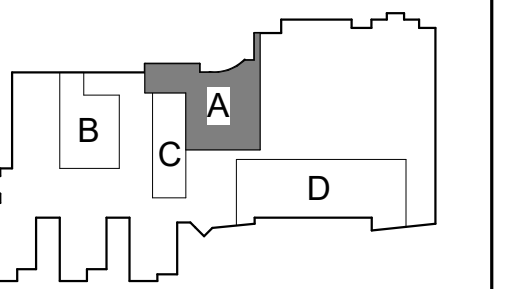
Project Date:

3.5.2020

Drawn By:

HSR

Key Plan:



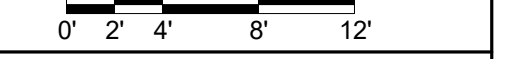
KEY PLAN

BID
DOCUMENTS

Revisions:

No.	Description	Date
1	ADDENDUM 1	3/16/20

Graphic Scale:



Last Update:

3/16/2020 4:57:30 PM

A101

- GENERAL NOTES:**
- A SEE ID SHEETS FOR FLOOR AND WALL FINISH LAYOUTS.
 - B LOOSE FURNISHINGS EXCEPT AS NOTED SHALL BE PROVIDED AND INSTALLED BY THE OWNER.
 - C VERIFY EXACT SIZE AND LOCATION OF ALL MECHANICAL / PLUMB AND ELEC. OPENINGS - GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR FINISH AT ALL VISIBLE AREAS. ALL OPENING SHALL BE SEALED AFTER UTILITY INSTALLATION.
 - D PAINT ALL EXPOSED STEEL LINTELS.
 - E INSTALL BULLNOSE CMU AT ALL OUTSIDE CORNERS W/ TIE AND AT DOOR JAMBS AS DETAILED. NO BULLNOSE AT WINDOW JAMBS.
 - F SEE STRUCTURAL FOR SLAB CONTROL JOINTS.
 - G SEE PLAN DETAILS FOR WALL CONTROL JOINT DETAILS. SEE PLANS AND ELEVATIONS FOR CJ LOCATIONS. CJ = CONTROL JOINTS.
 - H REFER TO OVERALL PLANS FOR FIRE RATING LOCATIONS AND ACCESSIBILITY ROUTES.
 - I EXTEND ALL WALLS TO DECK UNLESS NOTED OTHERWISE. SEE A602 FOR TOP OF WALL DETAILS.
 - J SEE A603 FOR TYPICAL HEAD FLASHING AND THROUGH-WALL FLASHING ISOMETRIC DETAILS.

- LEGEND:**
- (A) SYMBOL INDICATES WALL TYPE - SEE SHEET A600 FOR WALL TYPE DETAILS.
 - (W) SYMBOL INDICATES WINDOW TYPE - SEE SHEET A602 FOR WINDOW FRAME ELEVATIONS.
 - (C) SYMBOL INDICATES CONSTRUCTION NOTE THIS SHEET
 - 1 HOUR WALL
 - 2 HOUR FIRE WALL
 - NEW CONCRETE SLAB OVER RIGID INSULATION & REINFORCING BARS - SEE SHEET A504
 - CONCRETE INFILL OVER RECESSED CONCRETE SLAB
 - FE FIRE EXTINGUISHER-BRACKET MOUNTED
 - FEC FIRE EXTINGUISHER CABINET - SEMI RECESSED
 - FURNITURE SHOWN FOR REFERENCE BUT NOT IN CONTRACT

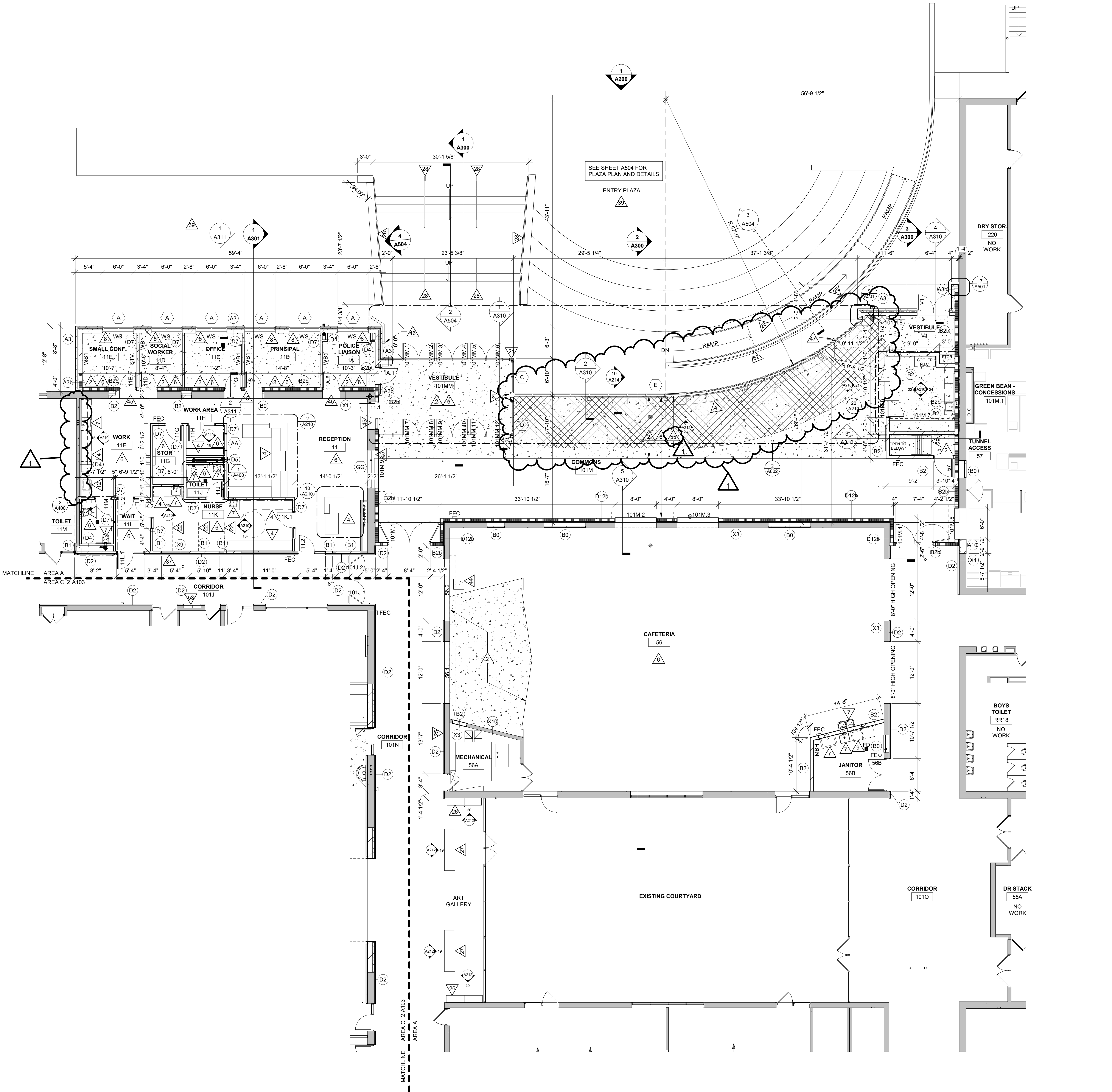
KEY NOTES PLAN

- 1 INSTALL NEW CONCRETE FROST STOOP - SEE STRUCTURAL SHEETS.
- 2 INSTALL NEW CONCRETE SLAB-ON-GRADE - SEE STRUCTURAL SHEETS.
- 3 INSTALL NEW COLUMN PAINT COLUMN @ EXTERIOR - SEE STRUCTURAL SHEETS.
- 4 INSTALL NEW CASEWORK - SEE A210-13 FOR CASEWORK ELEVATIONS.
- 5 INSTALL DOUBLE-SIDED DEMONSTRATION HOOD ON BASE CABINET. SEE MECHANICAL & PLUMBING SHEETS.
- 6 INSTALL NEW FLOORING & BASE - SEE ID SHEETS.
- 7 INSTALL NEW PLUMBING FIXTURE - SEE PLUMBING SHEETS.
- 8 INSTALL NEW SOLID SURFACE WINDOW STOOL - SEE ID SHEETS.
- 9 INSTALL SALVAGED WASHER & DRYER FROM EXISTING RM B1.
- 10 INSTALL 22 GA. SHEET METAL ON THE FACE OF STUDS FROM 3'-6" A.F.F. TO 2'-6" A.F.F. LENGTH OF NEW WALL.
- 11 INSTALL MAGNETIC WHITE BOARD WALL COVERING - SEE ID SHEETS.
- 12 EXISTING EQUIPMENT - INSTALL BY OWNER.
- 13 NOT USED.
- 14 INSTALL CATCH BASIN - SEE CIVIL SHEETS.
- 15 INSTALL BOLLARD.
- 16 INSTALL TRENCH DRAIN - SEE PLUMBING SHEETS.
- 17 SLOPE SLAB TO DRAIN.
- 18 INTEGRAL SINK BY CASEWORK MFR - SEE PLUMBING SHEETS FOR FIXTURES.
- 19 INSTALL KEYED HOT/COLD HOSE BIB - SEE PLUMBING SHEETS.
- 20 INSTALL SALVAGED WASHER & DRYER FROM EXISTING RM 71A.
- 21 ADA AUTO OPERATOR PUSH BUTTON.
- 22 CUBICAL CURTAIN ATTACHED TO TRACK ON DROPPED CEILING TILE.
- 23 KILN, EXHAUST, AND ACCESSORIES.
- 24 SPRAY BOOTH AND EXHAUST - BASIS OF DESIGN LAGUNA PRO-V SEAMLESS SPRAY BOOTH MODEL NUMBER 30231-1012.
- 25 TACKABLE WALL SURFACE - SEE ID SHEETS.
- 26 PRE-FABRICATED GLASS DISPLAY CABINET W/LIGHTS.
- 27 PRE-FABRICATED GLASS DISPLAY CABINET.
- 28 INSTALL NEW 1 1/4" DIA. (1.66" O.D.) STEEL PIPE HANDRAIL (TOP @ 2'-10") - PAINT.
- 29 INSTALL NEW 4'-7" WIDE PRE-FABRICATED ALUM. SHIP'S LADDER FLOOR TO FLOOR - 10'-0" ±.
- 30 INSTALL SCIENCE CHEMISTRY TABLE. SEE ELECTRICAL & PLUMBING SHEETS.
- 31 INSTALL SCIENCE SHELDON SYNERGY SINK. SEE PLUMBING SHEETS.
- 32 INSTALL SINK BASIS OD DESIGN SHELDON END SINK RINSEAWAY STATION MODEL NUMBER 27570. SEE PLUMBING SHEETS.
- 33 INSTALL ROLLING/MOVABLE SHELFING SYSTEM.
- 34 INSTALL NEW SOLID SURFACE BENCH.
- 35 INSTALL NEW DISPLAY CASEWORK.
- 36 48" HIGH WING WALL W/ PLAM TOP.
- 37 INSTALL NEW WALL TO THE UNDERSIDE OF THE EXISTING CEILING SYSTEM.
- 38 INSTALL SALVAGED FRIDGE/POP MACHINE FROM EXISTING RM 11.
- 39 SEE CIVIL PLANS FOR SITE REQUIREMENTS.
- 40 NOT USED.
- 41 INSTALL DISPLAY CASE CASEWORK.
- 42 INSTALL NEW CONCRETE SLAB-ON-GRADE OVER FILL IN SHOP AREA - SEE STRUCTURAL SHEETS.
- 43 PATCH CONG SLAB. DOWEL NEW SLAB TO EXISTING SLAB W/ #4 X 1'-0" DOWELS @ 18" O.C. DRILL & EPOXY IN EXISTING SLAB W/ W/ EMBEDMENT.
- 44 PAINT EXPOSED STEEL LINTELS WITH INTUMESCENT PAINT.
- 45 PREFINISHED METAL OPEN-FACED DOWNSPOUT W/ HEAT TAPE. DRAIN TO GRADE.
- 46 PREFINISHED METAL OPEN-FACED DOWNSPOUT W/ HEAT TAPE. DRAIN TO STORM BOOT CONNECTION- SEE CIVIL.
- 47 NO NEW CASEWORK - SEE A210-13 FOR CASEWORK ELEVATIONS.
- 48 CONCRETE WALL INFILL - SEE STRUCTURAL SHEETS.
- 49 EPOXY TERRAZZO PATCH FOR PLUMBING UNDERGROUND WORK. PATCH FROM WALL TO WALL.
- 50 CONCRETE EQUIPMENT PAD. VERIFY SIZE AND LOCATION WITH MEP.
- 51 GUARD RAIL ALONG RETAINING WALL. PAINT. SEE A1404.
- 52 REFEED EXISTING ELECTRICAL PANEL. SEE ELECTRICAL. NEW WALL TO COVER NEW FEEDERS.
- 53 METAL WELDING BOOTHS BY OWNER.
- 54 2" RIGID INSULATION UNDER SLAB FOR RADIANT FLOOR HEAT.

EQUIPMENT SCHEDULE

ABBREVIATION	ITEM	STD. MOUNTING HEIGHT	OWNER FURNISHED OR RELOCATED	OWNER FURNISHED	OWNER INSTALLED
BB1	72"x48" BULLETIN BOARD	TOP @ 6'-10" A.F.F.		X	X
BB2	96"x48" BULLETIN BOARD	TOP @ 6'-10" A.F.F.		X	X
BB3	120"x48" BULLETIN BOARD	TOP @ 6'-10" A.F.F.		X	X
BB4	144"x48" BULLETIN BOARD	TOP @ 7'-0" A.F.F.		X	X
MBH	MOP AND BROOM HOLDER	TOP @ 5'-0" A.F.F.		X	X
STV	SMART TELEVISION (SIZE BY OWNER)	COORDINATE W/OWNER	X		
WB1	72"x48" WHITE BOARD	TOP @ 6'-10" A.F.F.		X	X
WB2	96"x48" WHITE BOARD	TOP @ 6'-10" A.F.F.		X	X
WB3	120"x48" WHITE BOARD	TOP @ 6'-10" A.F.F.		X	X
WB4	48"x48" WHITE BOARD	TOP @ 6'-10" A.F.F.		X	X
WS	WINDOW SHADE (SEE ID SHEETS)	SEE ID SHEETS		X	X

EQUIPMENT SCHEDULE GENERAL NOTES:
1. CONFIRM EXACT LOCATION OF EACH ITEM WITH OWNER PRIOR TO INSTALLATION.
2. SEE REMODEL FLOOR PLANS (A111-A115) AND ELEVATIONS FOR ADDITIONAL ACCESSORIES.

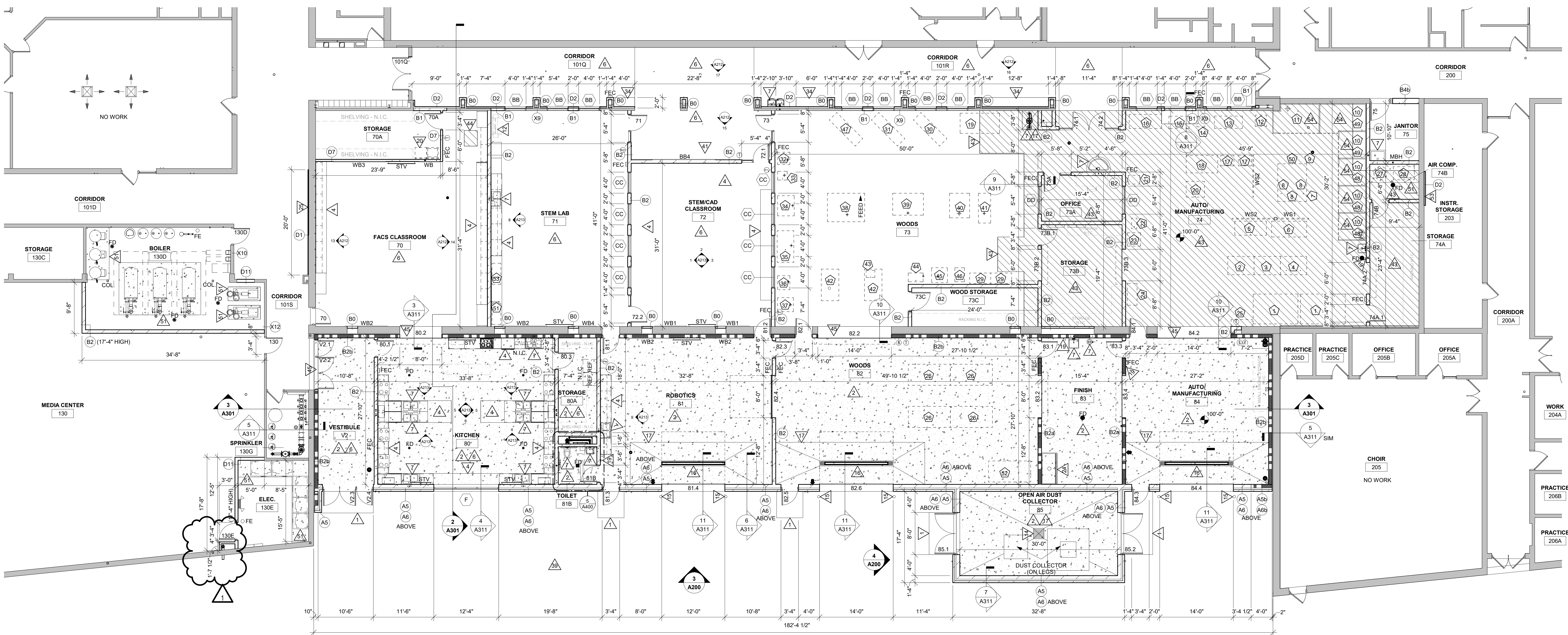


1 FIRST FLOOR PLAN - AREA A
1/8" = 1'-0"



Consultant:

LA CRESCENT-HOKAH
HIGH SCHOOL/ MIDDLE SCHOOL
1301 LANCER BOULEVARD
LA CRESCENT, MINNESOTA
FIRST FLOOR PLAN - AREA D



1 FIRST FLOOR PLAN - AREA D
1/8" = 1'-0"

SHOP EQUIPMENT SCHEDULE - SHOP EQUIPMENT PROVIDED BY OWNER. CONNECTION(S) BY CONTRACTOR

MARK	DESCRIPTION	REMARKS	ROOM #	MFGR	MODEL	DIM (WxD)	DUST COL.	AIR
1	TURRET MILLING MACHINE	EXISTING	74	JET	JTM-4VS	102" X 68"	No	No
2	WORK TABLE	EXISTING	74	-	-	42" X 60"	No	No
3	WORK TABLE W/ VICE	EXISTING	74	-	-	42" X 60"	No	No
4	WORK TABLE W/ (2) METAL CHOP SAW	EXISTING	74	-	-	42" X 60"	No	No
5	BENCH LATHE	EXISTING	74	JET	GH-1440B	72" X 32"	No	No
6	BENCH LATHE	EXISTING	74	JET	BBB-1340A	80" X 36"	No	No
7	WORK TABLE	EXISTING	74	-	-	88" X 86"	No	No
8	MIG WELDER	EXISTING	74	LINCOLN ELECTRIC	140C	11" X 19"	No	No
9	MOVABLE EXHAUST	EXISTING	74	-	-	-	No	No
10	ARC WELDER	EXISTING	74	LINCOLN ELECTRIC	AD/CDC 225/125	18" X 12"	No	No
11	PLASMA CUTTING TABLE W/COMPUTER	EXISTING	74	PLASMA CAM	DMC2	102" X 64"	Yes	Yes
12	14" METALWOOD VERTICAL BANDSAW	EXISTING	74	JET	J-8201K	26" X 26"	No	No
13	HORIZONTAL BANDSAW	EXISTING	74	JET	HBS-916W	64" X 28"	No	No
14	METAL SHEAR	EXISTING	74	-	-	-	No	No
15	BREAK PRESS	EXISTING	74	PEXTO	137-L	46" X 28"	No	No
16	BREAK PRESS	EXISTING	74	GRIZZLY	R674	74" X 32"	No	No
17	14" VERTICAL BANDSAW (PORTABLE)	EXISTING	74	RIGID	R674	30" X 24"	No	No
18	PONC MILL W/COMPUTER (COMPRESSOR)	EXISTING	74	TORMACH	PCMC 440	72" X 40"	Yes	Yes
19	CNC W/COMPUTER	EXISTING	73	INVENTABLES	X-CARVE	90" X 46"	Yes	Yes
20	MILL DRILL	EXISTING	74	DAYTON	2LKPBA	42" X 36"	No	No
21	DRILL PRESS	EXISTING	74	DAKE	977190	20" X 26"	No	No
22	STAND GRINDER	EXISTING	74	-	-	24" X 12"	No	No
23	DISC SANDER	EXISTING	74	BAILEIGH	DG-500	30" X 30"	No	No
24	PIPE BENDER	EXISTING	74	JD SQUARED	MODEL 3	50" X 22"	No	No
25	TOOL CABINET	EXISTING	74	-	-	46" X 16"	No	No
26	WORK TABLE	EXISTING	82	-	-	96" X 48"	No	No
27	60 GAL AIR COMPRESSOR (VERTICAL)	EXISTING	74B	INGERSOLL RAND	-	48" X 30"	No	No
28	60 GAL AIR COMPRESSOR (HORIZONTAL)	EXISTING	74B	HAMPTON	HRV5-6	48" X 24"	No	No
29	TOOL CABINET	EXISTING	73	-	-	84" X 24"	No	No
30	BENCH LATHE	EXISTING	73	POWERMATIC	90	84" X 24"	No	No
31	BENCH LATHE	EXISTING	73	POWERMATIC	PM1500	84" X 24"	No	No
32	BELT/DISC SANDER	EXISTING	73	POWERMATIC	BD31A	28" X 28"	Yes	No
33	BELT SANDER	EXISTING	73	ROCKWELL	31-501	20" X 22"	Yes	No
34	CHOP SAW W/STAND	EXISTING	73	DEWALT	46" X 38"	46" X 38"	Yes	No
35	12" RAUOL ARM SAW W/STAND	EXISTING	73	DELTA	438-02-314-2068	72" X 36"	Yes	No
36	ROUTER TABLE	EXISTING	73	ROCKWELL	32" X 28"	32" X 28"	Yes	No
37	SHAPE	EXISTING	73	ROCKWELL	43-340	32" X 36"	Yes	No
38	10" TABLE SAW W/EXTENSION TABLE	EXISTING	73	SAWSTOP	IC551230	86" X 46"	Yes	No
39	10" TABLE SAW	EXISTING	73	SAWSTOP	IC551230	70" X 50"	Yes	No
40	PLANER W/ EXTENSION TABLE	EXISTING	73	DELTA	22-451	46" X 56"	Yes	No
41	JONTEK	EXISTING	73	DELTA	-	86" X 28"	Yes	No
42	SHOP TABLE	EXISTING	73	DELTA	-	72" X 40"	Yes	No
43	SPINDLE SHAPER SANDER	EXISTING	73	PERFORMAX	90225	16" X 20"	No	No
44	14" BANDSAW	EXISTING	73	POWERMATIC	PM85-14	34" X 24"	Yes	No
45	BANDSAW	EXISTING	73	POWERMATIC	PM1500	84" X 24"	Yes	No
46	DRILL DRESS	EXISTING	73	POWERMATIC	PM2800B	22" X 32"	No	No
47	BENCH LATHE	EXISTING	73	DELTA	84" X 24"	84" X 24"	No	No
48	MOBILE MIG WELDER	EXISTING	74	MILLER	MILLERMATIC 250	14" X 36"	No	No
49	MOBILE MIGSTICK/TIG	EXISTING	74	TWECO	FABRICATOR 1411	14" X 34"	No	No
50	MOBILE PASMA CUTTER	EXISTING	74	MILLER	SPECTRUM 701	14" X 36"	No	Yes
51	LASER ENGRAVER W/COMPUTER (EXHAUST)	EXISTING	74	FULL SPECTRUM	H-SERIES 20 X 12	48" X 20"	No	No
52	DOWNDRAFT SANDING TABLE	NEW	82	-	-	-	-	-
53	3D CARVER W/COMPUTER	EXISTING	71	INVENTABLES	CARVEY	48" X 20"	No	No

KEY NOTES PLAN

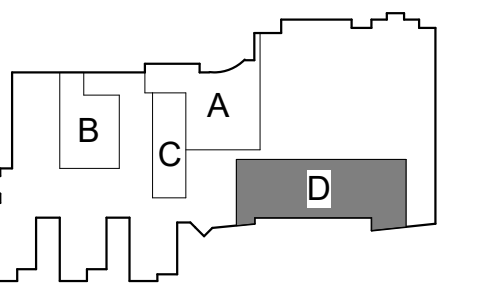
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- INSTALL DOUBLE-SIDED DEMONSTRATION HOOD ON BASE CABINET. SEE MECHANICAL & PLUMBING SHEETS.
- INSTALL NEW FLOORING & BASE - SEE ID SHEETS.
- INSTALL NEW PLUMBING FIXTURES - SEE PLUMBING SHEETS.
- INSTALL NEW SOLID SURFACE WINDOW STOOL - SEE ID SHEETS.
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- EXISTING FABRICATED GLASS DISPLAY CABINET.
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- INSTALL NEW 4'-0" WIDE PRE-FABRICATED ALUM. SHIP'S LADDER. FLOOR TO FLOOR @ 10'-0" ±.
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- INSTALL NEW SOLID SURFACE BENCH.
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- PATCH CONC SLAB. DOWEL NEW SLAB TO EXISTING SLAB W/ #4 X 1'-0" DOWELS @ 18" O.C. DRILL & EPOXY IN EXISTING SLAB W/4" EMBEDMENT.
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- PREFINISHED METAL OPEN-FACED DOWNSPOUT W/ HEAT TAPE. DRAIN TO GRADE.
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- REFEED EXISTING ELECTRICAL PANEL. SEE ELECTRICAL. NEW WALL TO COVER NEW FEEDERS.
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- 2" RIGID INSULATION UNDER SLAB FOR RADIANT FLOOR HEAT.

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- LOOSE FURNISHINGS EXCEPT AS NOTED SHALL BE PROVIDED AND INSTALLED BY THE OWNER.
- VERIFY EXACT SIZE AND LOCATION OF ALL MECHANICAL / PLUMB AND ELEC. C OPENINGS - GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR FINISH AT ALL VISIBLE AREAS. ALL OPENING SHALL BE SEALED AFTER UTILITY INSTALLATION.
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- INSTALL BULLNOSE CMU AT ALL OUTSIDE CORNERS W/O TILE AND AT DOOR JAMBS AS DETAILED. NO BULLNOSE AT WINDOW JAMBS.
- SEE STRUCTURAL FOR SLAB CONTROL JOINTS.
- SEE PLAN DETAILS FOR WALL CONTROL JOINT DETAILS. SEE PLANS AND ELEVATIONS FOR CJ LOCATIONS. CJ = CONTROL JOINTS.
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- EXTEND ALL WALLS TO DECK UNLESS NOTED OTHERWISE. SEE A502 FOR TOP OF WALL DETAILS.
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LEGEND:

- (A) SYMBOL INDICATES WALL TYPE. SEE SHEET A800 FOR WALL TYPE DETAILS.
- (A) SYMBOL INDICATES WINDOW TYPE. SEE SHEET A602 FOR WINDOW FRAME ELEVATIONS.
- (A) SYMBOL INDICATES CONSTRUCTION NOTE THIS SHEET.
- 1 HOUR WALL
- 2 HOUR FIRE WALL
- NEW CONCRETE SLAB/ CONCRETE INFILL
- NEW CONCRETE SLAB OVER RIGID INSULATION & IN-FLOOR HEATING - SEE MECHANICAL SHEETS
- CONCRETE INFILL OVER RECESSED CONCRETE SLAB
- FE FIRE EXTINGUISHER-BRACKET MOUNTED
- FEC FIRE EXTINGUISHER CABINET - SEMI RECESSED
- FURNITURE SHOWN FOR REFERENCE BUT NOT IN CONTRACT



KEY PLAN

BID DOCUMENTS

No.	Description	Date
1	ADDENDUM 1	3/16/20

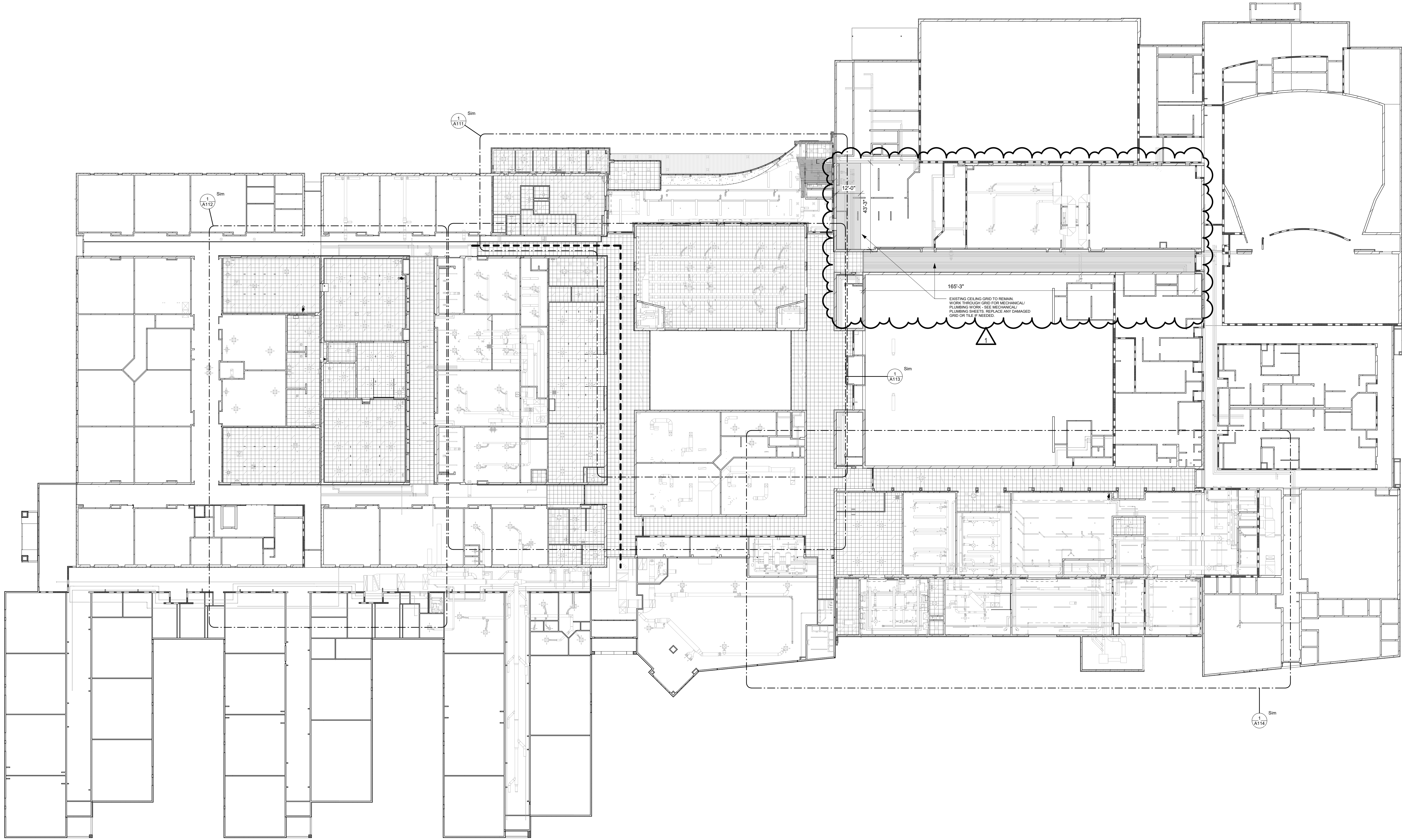
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3/16/2020 4:57:38 PM

A104



Consultant:



Project Title:
**LA CRESCENT-HOKAH
HIGH SCHOOL/ MIDDLE SCHOOL**

Project Location:
1301 LANCER BOULEVARD
LA CRESCENT, MINNESOTA

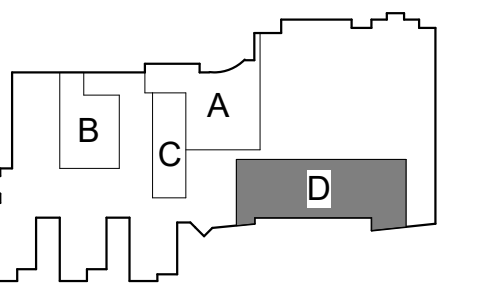
Sheet Title:
OVERALL REFLECTED CEILING PLAN

HSR Project Number:
19014-1

Project Date:
3.5.2020

Drawn By:
HSR

Key Plan:



KEY PLAN

**BID
DOCUMENTS**

Revisions:

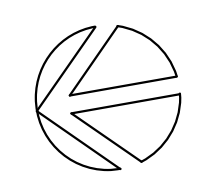
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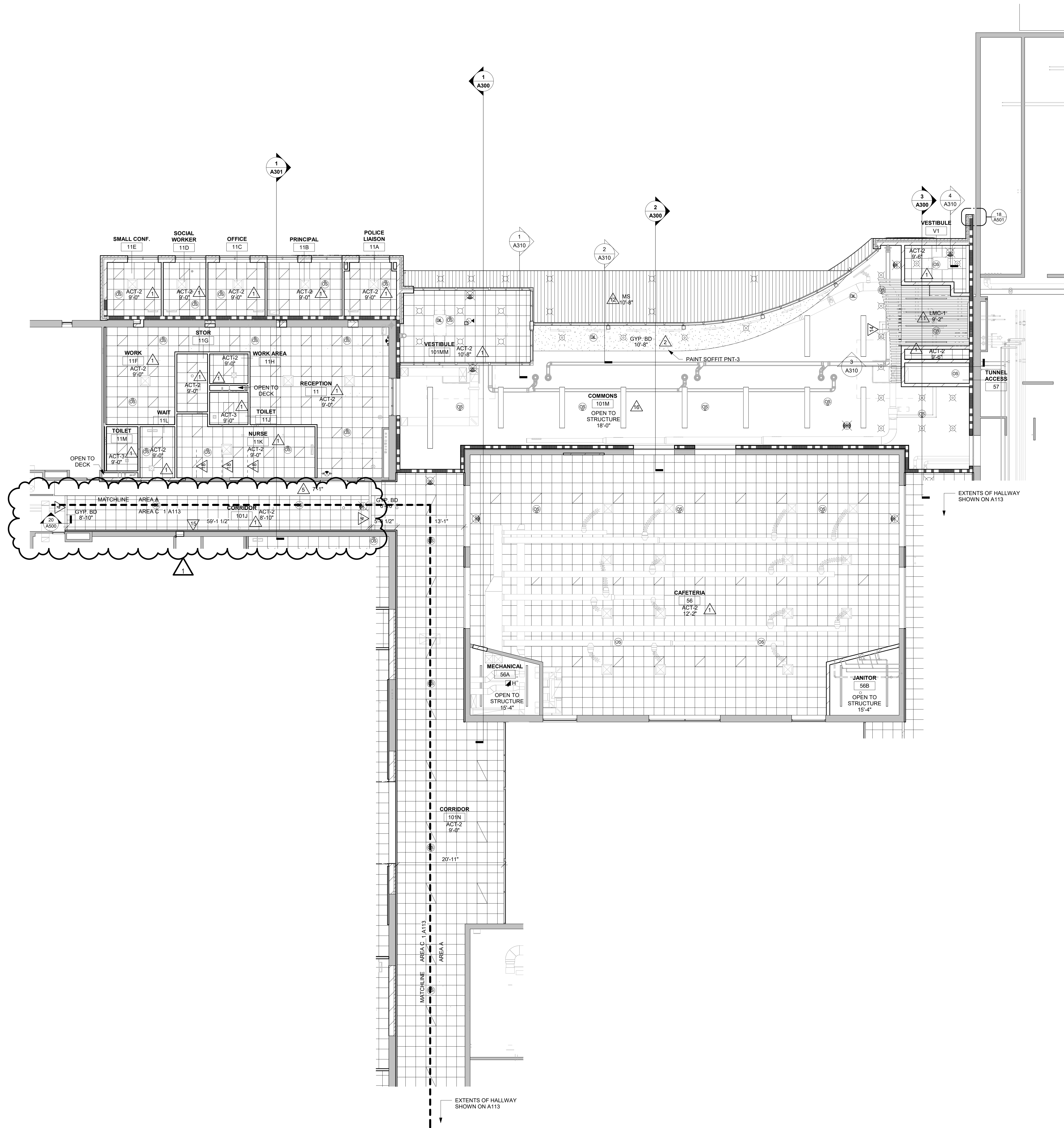
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Last Update:
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A110

1 OVERALL REFLECTED CEILING PLAN
1" = 20'-0"





GENERAL NOTES:

A REFER TO MECHANICAL AND PLUMBING CEILING ACCESS PANEL LOCATIONS & SIZES.

B SEE MECHANICAL FOR CEILING GRILLE INFORMATION

C SEE ELECTRICAL FOR LIGHTING TYPES

D ALL INTERIOR PARTITIONS TO EXTEND TO BOTTOM OF DECK UNLESS OTHERWISE NOTED. GYPSUM BOARD FLUTES AT TOP OF WALL WITH NEOPRENE FILLER OR FIRESTOPPING SYSTEM. IN GYPSUM BOARD PARTITIONS SEE SPECIFICATION FOR LEVEL OF FINISH ABOVE FINISHED CEILING.

E ALL REMAINING ANNULAR SPACE AROUND ITEMS PENETRATING WALLS SHALL BE NEATLY SEALED. PENETRATIONS OF FIRE RATED WALLS SHALL BE FIRESTOPPED WITH THE SAME AS THE WALL.

F WHERE EXPOSED STRUCTURE OCCURS, UNLESS NOTED OTHERWISE, CONTRACTOR SHALL KEEP ALL MEP ABOVE OR EVEN WITH THE LEVEL OF THE LIGHTS. MEP SHALL RUN IN NEAT ORDERLY APPEARANCE GENERALLY PARALLEL OR PERPENDICULAR TO FINISHED STRUCTURE.

G ALL EXTERIOR EXPOSED STEEL LINTELS/HEADERS SHALL BE GALVANIZED, PRIMED AND PAINTED UNLESS NOTED OTHERWISE.

H REFER TO INTERIOR DESIGN SHEETS FOR OTHER FINISHES

I HANGERS AND SUPPORTS: MECHANICAL, PLUMBING, ELECTRICAL AND OTHER CASING CONTRACTORS SHALL NOT HANG OR SUPPORT THE WORK FROM THE ROOF DECK IN ANY FASHION. CONDUIT RUNS SHALL NOT BE LAID ON ROOF DECK NOR LAID ON THE STRUCTURAL SUPPORT THAT SUPPORTS THE ROOF DECK. NO FASTENERS SHALL PENETRATE ROOF DECK BY ANY TRADE OTHER THAN THE ROOFING CONTRACTOR FOR THE NEW ROOF SYSTEM.

J CONFIRM EXACT LOCATION OF OVERHEAD PROJECTORS AND OTHER CEILING MOUNTED EQUIPMENT WITH OWNER / MANUFACTURER PRIOR TO INSTALLATION. SEE EQUIPMENT PLANS FOR ADDITIONAL EQUIPMENT.

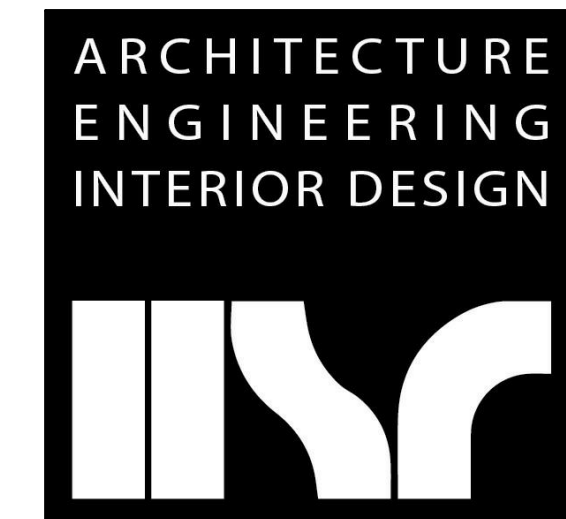
K CEILING TYPES INSTALLED AS NOTED ON PLANS. SEE SPECIFICATIONS FOR ADDITIONAL SYSTEM INFORMATION.
ACT-2=REGULAR EDGE, ACT-3=VINYL FACED GYP, LMS-1=LINEAR METAL CEILING, MS = METAL SOFFIT

LEGEND:

- LIGHT FIXTURE - SEE ELECTRICAL
- LIGHT FIXTURE - SEE ELECTRICAL
- LIGHT FIXTURE - SEE ELECTRICAL
- LIGHT FIXTURE - SEE ELECTRICAL
- LIGHT FIXTURE - SEE ELECTRICAL
- SPEAKER - SEE ELECTRICAL
- GRILLE - SEE MECHANICAL

KEY NOTES RCP

- 1 INSTALL NEW 2' x 2' ACT CEILING.
- 2 INSTALL NEW GYP. BD. CEILING ON METAL FRAMING.
- 3 MODIFY EXISTING CEILING TIL & GRID FOR NEW WALL CONSTRUCTION.
- 4 INSTALL NEW GYP. BD. BULKHEAD.
- 5 EXISTING GYP. BD SOFFIT TO REMAIN.
- 6 RANGE VENT HOOD - SEE MECHANICAL SHEETS.
- 7 OVERHEAD DOOR TRACK - SEE DOOR SCHEDULE.
- 8 OVERHEAD ELECTRICAL POWER REEL - SEE ELECTRICAL SHEETS.
- 9 AIRFOK VENT HOOD - SEE MECHANICAL SHEETS.
- 10 KILN EXHAUST HOOD VENT - SEE MECHANICAL SHEETS.
- 11 INSTALL NEW LINEAR CEILING SYSTEM, BASIS OF DESIGN USG BARZ SYSTEM.
- 12 INSTALL NEW 12" WIDE FLUSH METAL SOFFIT.
- 13 SPRAY BOOTH EXHAUST VENT - SEE MECHANICAL SHEETS.
- 14 SIGNAGE
- 15 INSTALL NEW WALL TO THE UNDERSIDE OF THE EXISTING CEILING SYSTEM.
- 16 DRY FALL PAINT CEILING TO BOTTOM OF TRUSS.
- 17 EXISTING GYP BULKHEAD TO REMAIN.
- 18 CUBICAL CURTAIN ATTACHED TO TRACK ON DROPPED CEILING TILE.



**ARCHITECTURE
ENGINEERING
INTERIOR DESIGN**

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PHONE: 608.784.1830
FAX: 608.782.5844
www.hsrassociates.com

Consultant:

Project Title:

Project Location: 1301 LANCER BOULEVARD
LA CRESSENT, MINNESOTA

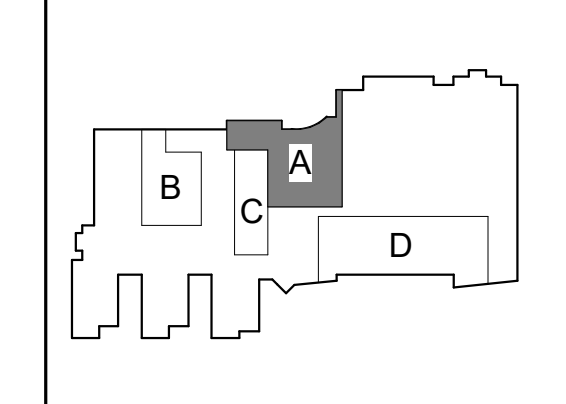
**LA CRESSENT-HOKAH
HIGH SCHOOL/ MIDDLE SCHOOL**

REFLECTED CEILING PLAN - AREA A

Project Number: 19014-1

Project Date: 3.5.2020

Drawn By: HSR



KEY PLAN

**BID
DOCUMENTS**

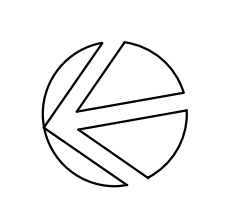
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1	ADDENDUM 1	3/16/20

Graphic Scale: VARIES

Last Update: 3/16/2020 5:01:36 PM

A111

1 REFLECTED CEILING PLAN - AREA A
1/8" = 1'-0"





Consultant:

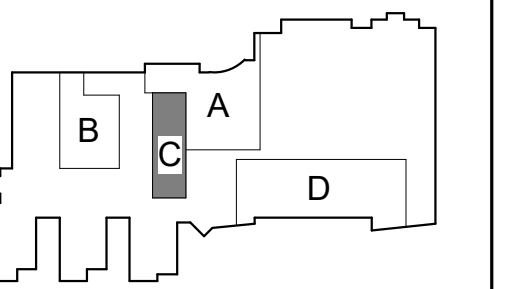
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HIGH SCHOOL/ MIDDLE SCHOOL**
Project Location: 1301 LANCER BOULEVARD
LA CRESCENT, MINNESOTA
Sheet Title: **REFLECTED CEILING PLAN - AREA C**

HSR Project Number: **19014-1**

Project Date: **3.5.2020**

Drawn By: **HSR**

Key Plan:



KEY PLAN

**BID
DOCUMENTS**

No.	Description	Date
1	ADDENDUM 1	3/16/20

Graphic Scale: **VARIES**

Last Update: **3/16/2020 4:58:05 PM**

A113

GENERAL NOTES:

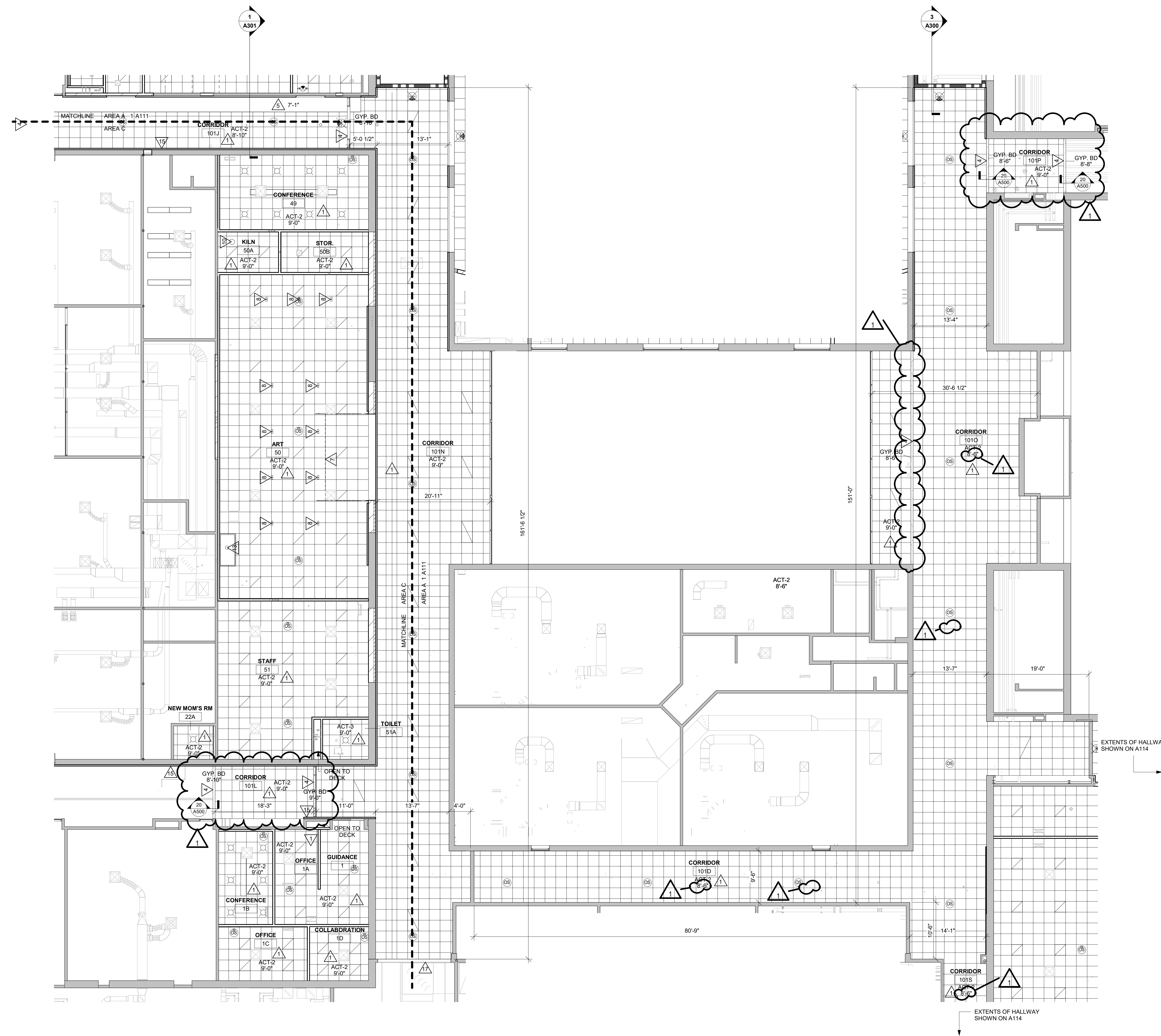
- A REFER TO MECHANICAL AND PLUMBING CEILING ACCESS PANEL LOCATIONS & SIZES.
- B SEE MECHANICAL FOR CEILING GRILLE INFORMATION.
- C SEE ELECTRICAL FOR LIGHTING TYPES.
- D ALL INTERIOR PARTITIONS TO EXTEND TO BOTTOM OF DECK UNLESS OTHERWISE NOTED. CLOSE DECK FLUTES AT TOP OF WALL WITH NEOPRENE FILLER OR FIRESTOPPING SYSTEM. IN GYPSIUM PARTITIONS SEE SPECIFICATION FOR LEVEL OF FINISH ABOVE FINISHED CEILING.
- E ALL REMAINING ANNULAR SPACE AROUND ITEMS PENETRATING WALLS SHALL BE NEATLY SEALED. PENETRATIONS OF FIRE RATED WALLS SHALL BE FIRESTOPPED WITH THE SAME AS THE WALL.
- F WHERE EXPOSED STRUCTURE OCCURS, UNLESS NOTED OTHERWISE CONTRACTOR SHALL KEEP ALL MEP ABOVE OR EVEN WITH THE LEVEL OF THE LIGHTS. MEP SHALL RUN IN NEAT ORDERLY APPEARANCE GENERALLY PARALLEL OR PERPENDICULAR TO FINISHED STRUCTURE.
- G ALL EXTERIOR EXPOSED STEEL UNTEL SHEADERS SHALL BE GALVANIZED, PRIMED AND PAINTED UNLESS NOTED OTHERWISE.
- H REFER TO INTERIOR DESIGN SHEETS FOR OTHER FINISHES.
- I HANGERS AND SUPPORTS: MECHANICAL, PLUMBING, ELECTRICAL AND OTHER CABLING CONTRACTORS SHALL NOT HANG OR SUPPORT THE WORK FROM THE ROOF DECK IN ANY FASHION. CONDUIT RUNS SHALL NOT BE LAID ON ROOF DECK NOR LAID ON THE STRUCTURAL SUPPORT THAT SUPPORTS THE ROOF DECK. NO FASTENERS SHALL PENETRATE ROOF DECK BY ANY TRADE OTHER THAN THE ROOFING CONTRACTOR FOR THE NEW ROOF SYSTEM.
- J CONFIRM EXACT LOCATION OF OVERHEAD PROJECTORS AND OTHER CEILING MOUNTED EQUIPMENT WITH OWNER / MANUFACTURER PRIOR TO INSTALLATION. SEE EQUIPMENT PLANS FOR ADDITIONAL EQUIPMENT.
- K CEILING TYPES INSTALLED AS NOTED ON PLANS. SEE SPECIFICATIONS FOR ADDITIONAL SYSTEM INFORMATION.
ACT-2=REGULAR EDGE, ACT-3=VINYL FACED GYP, LMS=LINEAR METAL CEILING, MS = METAL SOFFIT

LEGEND:

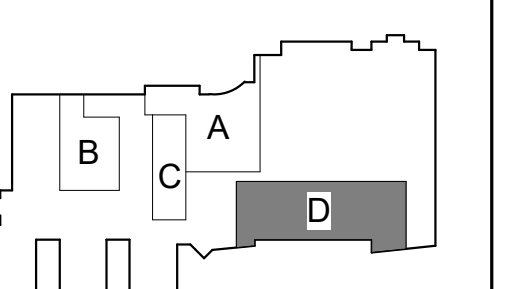
- LIGHT FIXTURE - SEE ELECTRICAL
- LIGHT FIXTURE - SEE ELECTRICAL
- LIGHT FIXTURE - SEE ELECTRICAL
- LIGHT FIXTURE - SEE ELECTRICAL
- SPEAKER - SEE ELECTRICAL
- GRILL - SEE MECHANICAL

KEY NOTES RCP

- 1 INSTALL NEW 2' x 2' ACT CEILING.
- 2 INSTALL NEW GYP. BD. CEILING ON METAL FRAMING.
- 3 MODIFY EXISTING CEILING TILE & GRID FOR NEW WALL CONSTRUCTION.
- 4 INSTALL NEW GYP. BD. BULKHEAD.
- 5 EXISTING GYP. BD. SOFFIT TO REMAIN.
- 6 RANGE VENT HOOD - SEE MECHANICAL SHEETS.
- 7 OVERHEAD DOOR TRACK - SEE DOOR SCHEDULE.
- 8 OVERHEAD ELECTRICAL POWER REEL - SEE ELECTRICAL SHEETS.
- 9 AIR/OIL VENT HOOD - SEE MECHANICAL SHEETS.
- 10 KILN EXHAUST HOOD VENT - SEE MECHANICAL SHEETS.
- 11 INSTALL NEW LINEAR CEILING SYSTEM, BASIS OF DESIGN USG BARZ SYSTEM.
- 12 INSTALL NEW 12" WIDE FLUSH METAL SOFFIT.
- 13 SPRAY BOOTH EXHAUST VENT - SEE MECHANICAL SHEETS.
- 14 SIGNAGE.
- 15 INSTALL NEW WALL TO THE UNDERSIDE OF THE EXISTING CEILING SYSTEM.
- 16 DRY FALL PAINT CEILING TO BOTTOM OF TRUSS.
- 17 EXISTING GYP. BULKHEAD TO REMAIN.
- 18 CUBICAL CURTAIN ATTACHED TO TRACK ON DROPPED CEILING TILE.



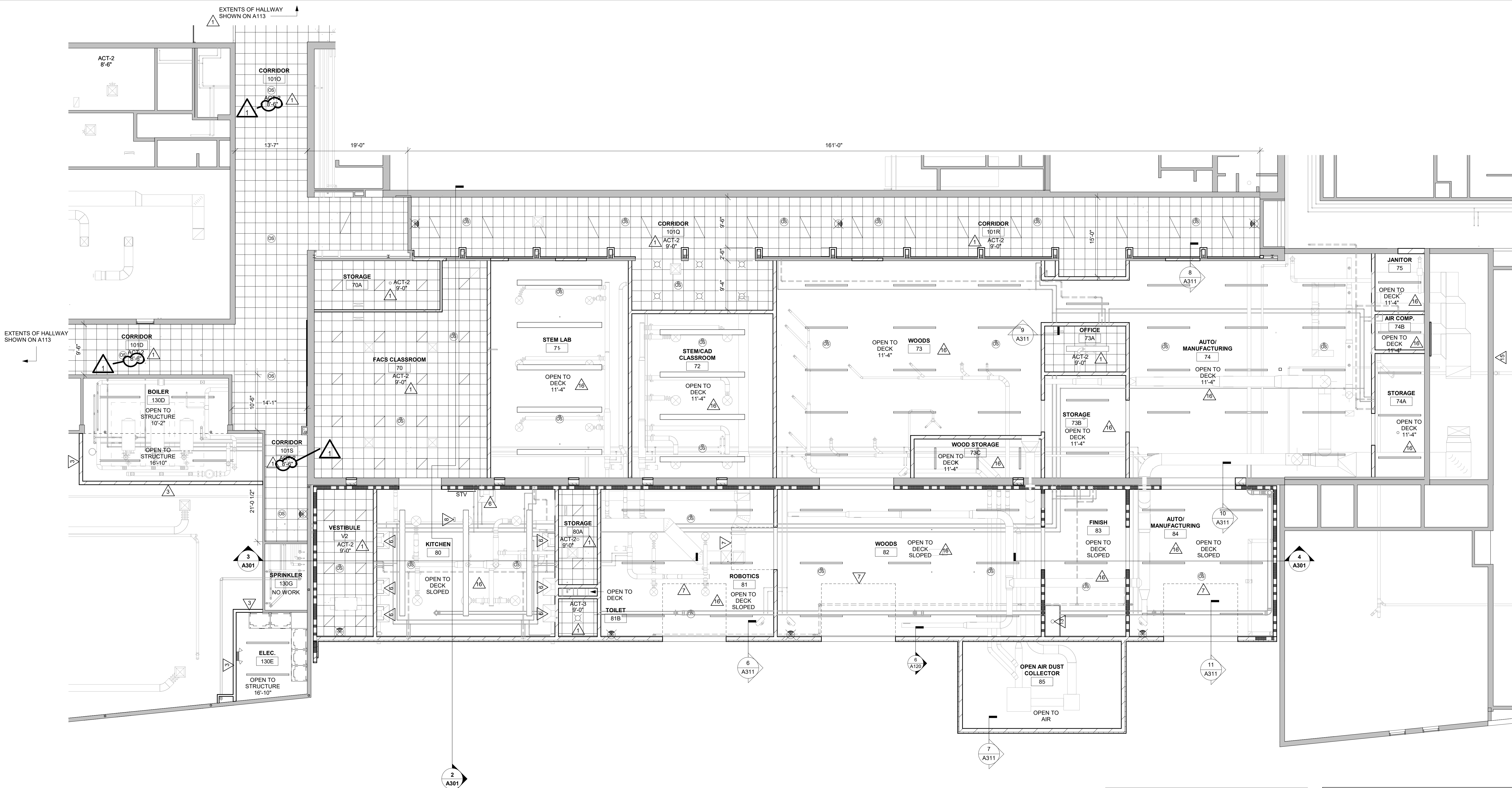
1 REFLECTED CEILING PLAN - AREA C
1/8" = 1'-0"



BID DOCUMENTS

Revisions:

No.	Description	Date
1	ADDENDUM 1	3/16/20



1 REFLECTED CEILING PLAN - AREA D
1/8" = 1'-0"

KEY NOTES RCP

1. INSTALL NEW 2' x 2' ACT CEILING.
2. INSTALL NEW GYP. BD. CEILING ON METAL FRAMING.
3. MODIFY EXISTING CEILING TILE & GRID FOR NEW WALL CONSTRUCTION.
4. INSTALL NEW GYP. BD. BULKHEAD.
5. EXISTING GYP. BD. SOFFIT TO REMAIN.
6. RANGE VENT HOOD - SEE MECHANICAL SHEETS.
7. OVERHEAD DOOR TRACK - SEE DOOR SCHEDULE.
8. OVERHEAD ELECTRICAL POWER REEL - SEE ELECTRICAL SHEETS.
9. AIRFOIL VENT HOOD - SEE MECHANICAL SHEETS.
10. KILN EXHAUST HOOD VENT - SEE MECHANICAL SHEETS.
11. INSTALL NEW LINEAR CEILING SYSTEM. BASIS OF DESIGN USG BARZ SYSTEM.
12. INSTALL NEW 12" WIDE FLUSH METAL SOFFIT.
13. SPRAY BOOTH EXHAUST VENT - SEE MECHANICAL SHEETS.
14. SIGNAGE.
15. INSTALL NEW WALL TO THE UNDERSIDE OF THE EXISTING CEILING SYSTEM.
16. DRY FALL PAINT CEILING TO BOTTOM OF TRUSS.
17. EXISTING GYP. BULKHEAD TO REMAIN.
18. CUBICAL CURTAIN ATTACHED TO TRACK ON DROPPED CEILING TILE.

GENERAL NOTES:

- A. REFER TO MECHANICAL AND PLUMBING CEILING ACCESS PANEL LOCATIONS & SIZES.
- B. SEE MECHANICAL FOR CEILING GRILLE INFORMATION.
- C. SEE ELECTRICAL FOR LIGHTING TYPES.
- D. ALL INTERIOR PARTITIONS TO EXTEND TO BOTTOM OF DECK UNLESS OTHERWISE NOTED. CLOSE DECK FLUTES AT TOP OF WALL WITH WEATHER FILLER OR FIRESTOPPING SYSTEM. IN CRYSTALLINE PARTITIONS SEE SPECIFICATION FOR LEVEL OF FINISH ABOVE FINISHED CEILING.
- E. ALL REMAINING ANNULAR SPACE AROUND ITEMS PENETRATING WALLS SHALL BE NEATLY SEALED. PENETRATIONS OF FIRE RATED WALLS SHALL BE FIRE STOPPED WITH THE SAME AS THE WALL.
- F. WHERE EXPOSED STRUCTURE OCCURS, UNLESS NOTED OTHERWISE, CONTRACTOR SHALL KEEP ALL MEP ABOVE OR EVEN WITH THE LEVEL OF THE LIGHTS. MEP SHALL RUN IN NEAT, ORDERLY APPEARANCE GENERALLY PARALLEL OR PERPENDICULAR TO FINISHED STRUCTURE.
- G. ALL EXTERIOR EXPOSED STEEL LINTEL/SHEADERS SHALL BE GALVANIZED, PRIMED AND PAINTED UNLESS NOTED OTHERWISE.
- H. REFER TO INTERIOR DESIGN SHEETS FOR OTHER FINISHES.
- I. HANGERS AND SUPPORTS: MECHANICAL, PLUMBING, ELECTRICAL AND OTHER CABLING CONTRACTORS SHALL NOT HANG OR SUPPORT THE WORK FROM THE ROOF DECK IN ANY FASHION. CONDUIT RUNS SHALL NOT BE LAID ON ROOF DECK NOR LAID ON THE STRUCTURAL SUPPORT THAT SUPPORTS THE ROOF DECK. NO FASTENERS SHALL PENETRATE ROOF DECK BY ANY TRADE OTHER THAN THE ROOFING CONTRACTOR FOR THE NEW ROOF SYSTEM.
- J. CONFIRM EXACT LOCATION OF OVERHEAD PROJECTORS AND OTHER CEILING MOUNTED EQUIPMENT WITH OWNER/ MANUFACTURER PRIOR TO INSTALLATION. SEE EQUIPMENT PLANS FOR ADDITIONAL EQUIPMENT.
- K. CEILING TYPES INSTALLED AS NOTED ON PLANS. SEE SPECIFICATIONS FOR ADDITIONAL SYSTEM INFORMATION.
ACT-2=TEGULAR EDGE, ACT-3=VINYL FACED GYP, LMS-1=LINEAR METAL CEILING, MS = METAL SOFFIT

LEGEND:

- LIGHT FIXTURE - SEE ELECTRICAL
- LIGHT FIXTURE - SEE ELECTRICAL
- LIGHT FIXTURE - SEE ELECTRICAL
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- LIGHT FIXTURE - SEE ELECTRICAL
- SPEAKER - SEE ELECTRICAL
- GRILLE - SEE MECHANICAL



Consultant:

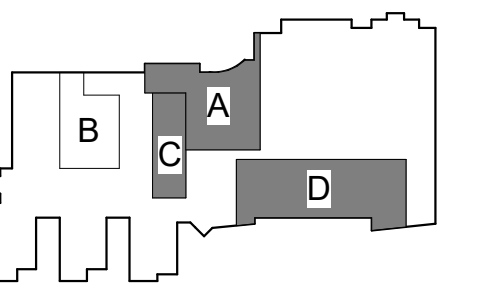
Project Title: **LA CRESCENT-HOKAH
HIGH SCHOOL/ MIDDLE SCHOOL**
Project Location: 1301 LANCER BOULEVARD
LA CRESCENT, MINNESOTA
Sheet Title: **ROOF PLAN**

HSR Project Number: **19014-1**

Project Date: **3.5.2020**

Drawn By: **HSR**

Key Plan:



KEY PLAN

**BID
DOCUMENTS**

Revisions:	No.	Description	Date
	1	ADDENDUM 1	3/16/20

Graphic Scale: **VARIES**

Last Update: **3/16/2020 4:58:22 PM**

A120

ROOF SYSTEM DESCRIPTIONS:

- A** FLAT ROOF STRUCTURE: ADHERED, SINGLE MEMBRANE ROOFING SYSTEM ON 1/4" PER FOOT TAPERED POLYISOCYANURATE INSULATION SYSTEM CONSISTING OF TAPERED INSUL OVER MINIMUM 5/16" BASE LAYER. INSULATION R VALUE = 5.7 PER INCH. INSTALL INSULATION OVER VAPOR BARRIER OVER METAL DECK.
 - B** SLOPED ROOF STRUCTURE: ADHERED, SINGLE MEMBRANE ROOFING SYSTEM ON 8" (MINIMUM 2 LAYERS) POLYISOCYANURATE INSULATION. INSULATION R VALUE = 5.7 PER INCH. INSTALL INSULATION W/ STAGGERED JOINTS OVER VAPOR BARRIER OVER METAL DECK.
- * VAPOR BARRIER SHALL LAP UP AT PERIMETER AND OVERLAP JOINTS.

ROOF EQUIPMENT LEGEND:

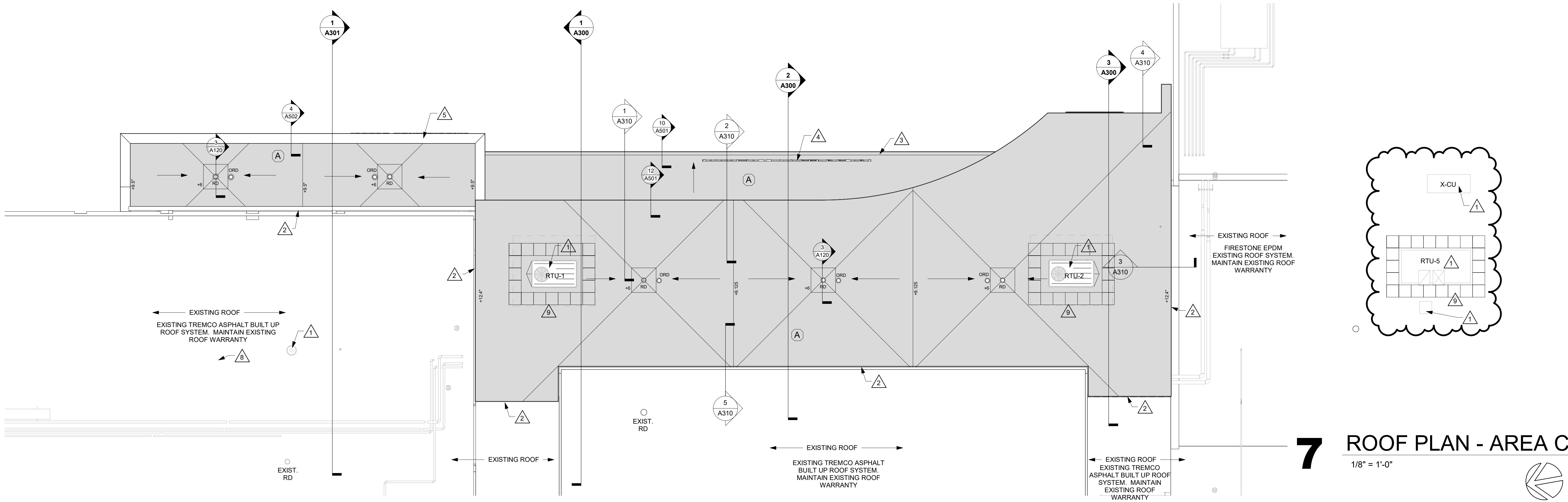
- ACCU AIR COOLED CONDENSING UNIT-SEE MECHANICAL
- INTAKE VENT HOOD-SEE MECHANICAL
- EXHAUST VENT HOOD-SEE MECHANICAL
- AIR INTAKE/EXHAUST VENT-SEE MECHANICAL
- PLUMBING VENT-SEE PLUMBING
- RD = ROOF DRAIN WITH 4" SQUARE SUMP. INSTALL TO MEET ROOF WARRANTY REQUIREMENT - SEE PLUMBING

GENERAL ROOF NOTES:

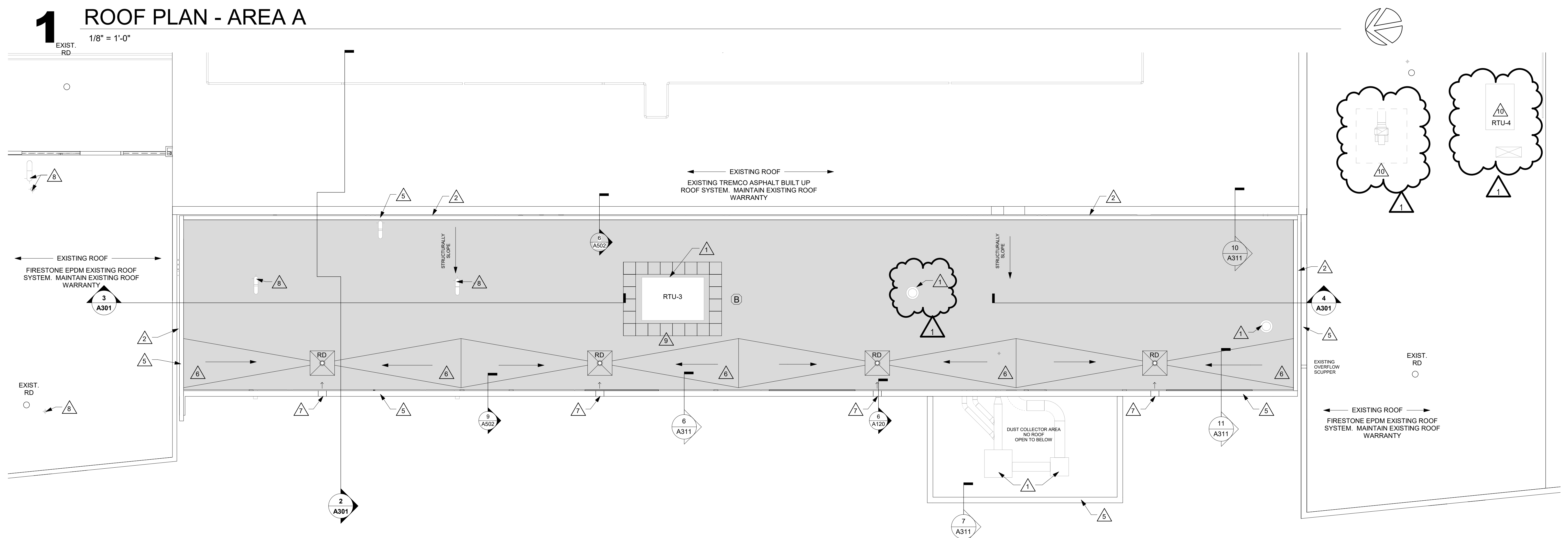
- A** SEE ROOF SYSTEM NOTES FOR MINIMUM AND AVERAGE INSULATION VALUES.
- B** ROOFING CONTRACTOR TO VERIFY ALL TAPERED INSULATION DRAWING PLAN DRAIN LOCATIONS WITH PHYSICAL LOCATION OF ROOF DRAIN AS INSTALLED BY PLUMBING TRADE PRIOR TO AE APPROVAL OF TAPERED INSULATION SUBMITTAL DRAWING
- C** VERIFY ROOF EQUIPMENT AND PENETRATIONS WITH ALL TRADES. EQUIPMENT SHOWN IS GRAPHIC ONLY.
- D** ROOF PENETRATIONS FOR DRAINS, VENTS, ETC. SHALL BE COMPLETED AS PER CURRENT SMACNA REQUIREMENTS AND THE ROOF MANUFACTURER'S APPROVED DETAILS FOR WARRANTY SATISFACTION. COORDINATE QUANTITY AND LOCATIONS WITH MEP CONTRACTOR. PROVIDE CURBS WHERE REQUIRED.
- E** ALL METAL ROOF AND FLASHING SHALL MEET CURRENT SMACNA REQUIREMENTS AND MANUFACTURER'S SPECIFIED WARRANTY.
- F** WHERE MEMBRANE IS SHOWN OVER TOP OF WALL, EXTEND DOWN OPPOSITE SIDE AND SECURE TO BLOCKING.
- G** TOP OF WALL BLOCKING SHOWN IS GRAPHIC. PROVIDE BLOCKING THAT SHALL BE ANCHORED TO WALL BELOW AS RECOMMENDED BY ROOFING SYSTEM MANUFACTURER TO WITHSTAND WIND UPLIFT AS STATED IN CODE. TOP OF WALLS SHALL SLOPE TOWARDS ROOF.
- H** INSTALL BOND BREAK BETWEEN ALL WOOD BLOCKING AND CMU OR CONCRETE.
- I** WHERE ROOF DRAINS PENETRATE ABOVE ROOMS W/ NO CEILING CARE SHALL BE TAKEN TO ENSURE NEAT CUTS IN THE DECK AND PIPING/INSULATION SHALL BE CUT AND ANCHORED NEATLY @ RIGHT ANGLES TO STRUCTURE.
- J** THE GENERAL CONTRACTOR, ROOFING CONTRACTOR AND MEP CONTRACTORS SHALL MEET TO PLAN AND DISCUSS FINAL ROOF EGT. LOCATIONS, TIMING OF MEETING SHALL OCCUR BEFORE INSTALLATION OF ROOF DRAIN LEADERS TO ALLOW FOR ANY REQUIRED ADJUSTMENTS.
- K** THE GENERAL CONTRACTOR, ROOFING CONTRACTOR AND PLUMBING CONTRACTORS SHALL MEET TO PLAN AND DISCUSS FINAL ROOF DRAIN LOCATIONS. TAPERED INSULATION DRAWING SHALL BE RE-SUBMITTED TO THE AE AFTER DRAIN LOCATIONS ARE APPROVED BY ALL IN WRITING. TAPERED INSULATION INSTALLED CONTRARY TO THE LOW POINT OF THE DRAIN, OVER FLOW OR SCUPPER LOCATIONS SHALL BE CAUSE FOR REJECTION OF WORK.

KEY NOTES ROOF

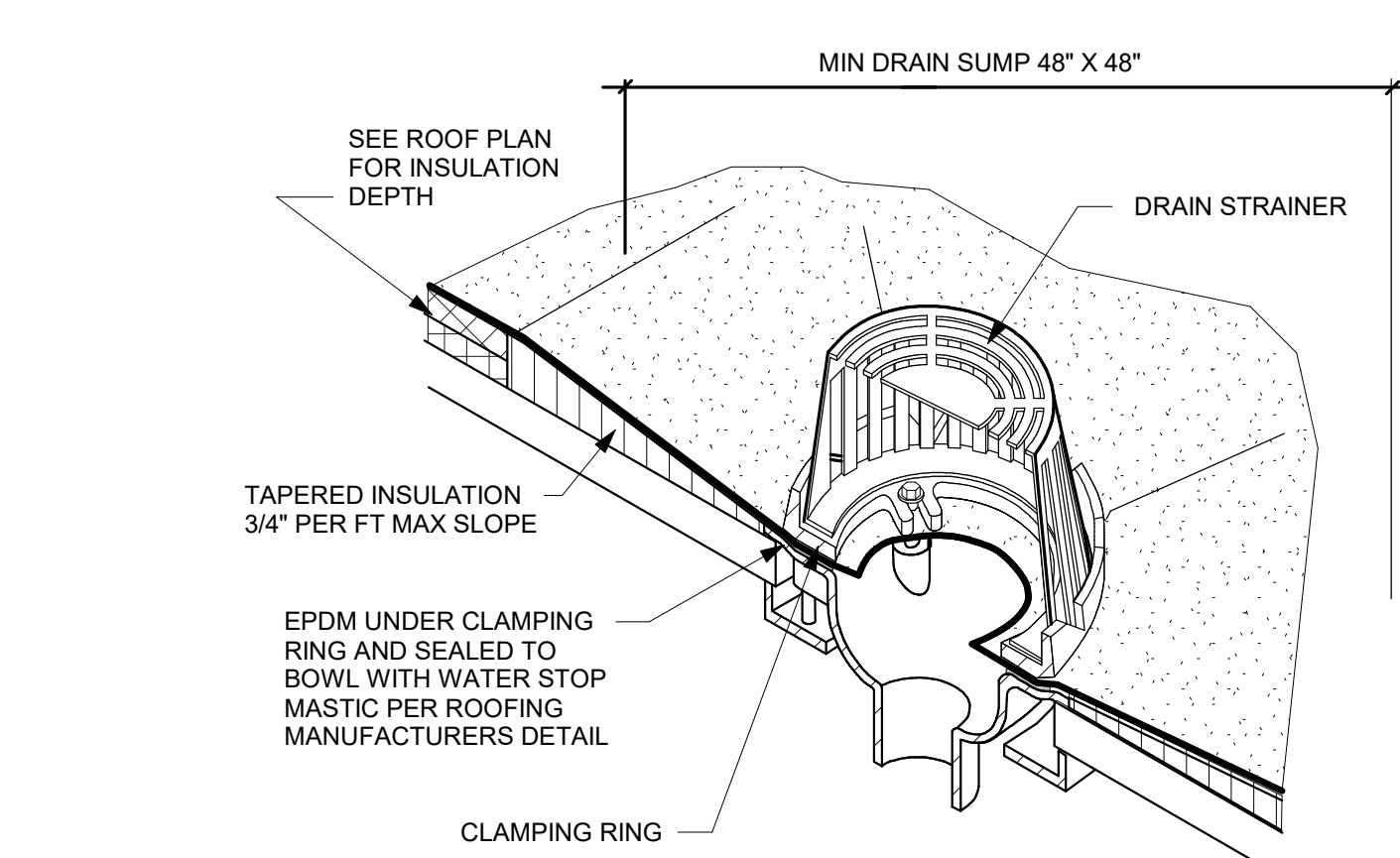
- 1 MECHANICAL EQUIPMENT - SEE MECH DRAWINGS. SEE S/A120 FOR CURB FLASHING
- 2 BUILDING EXPANSION JOINT
- 3 BUILT IN ROOF GUTTER - SLOPE TO DRAIN TO DOWNSPOUTS. (DOWNSPOUTS TO HAVE HEAT TRAP)
- 4 18" ALUM. SIGN LETTERS MOUNTED TO STEEL ANGLE
- 5 PRE-FINISHED SHEET METAL FLASHING CAP
- 6 TAPERED INSULATION CRICKET
- 7 12" WIDE X 8" HIGH PREFINISHED SHEET METAL THRU-WALL OVERFLOW ROOF SCUPPER - SEE S/A120
- 8 ROOF PENETRATION IN ROOF SYSTEM. SEE MEP.
- 9 WALKWAY PADS
- 10 NEW MECHANICAL EQUIPMENT IN EXISTING LOCATION - SEE MECHANICAL SHEETS.



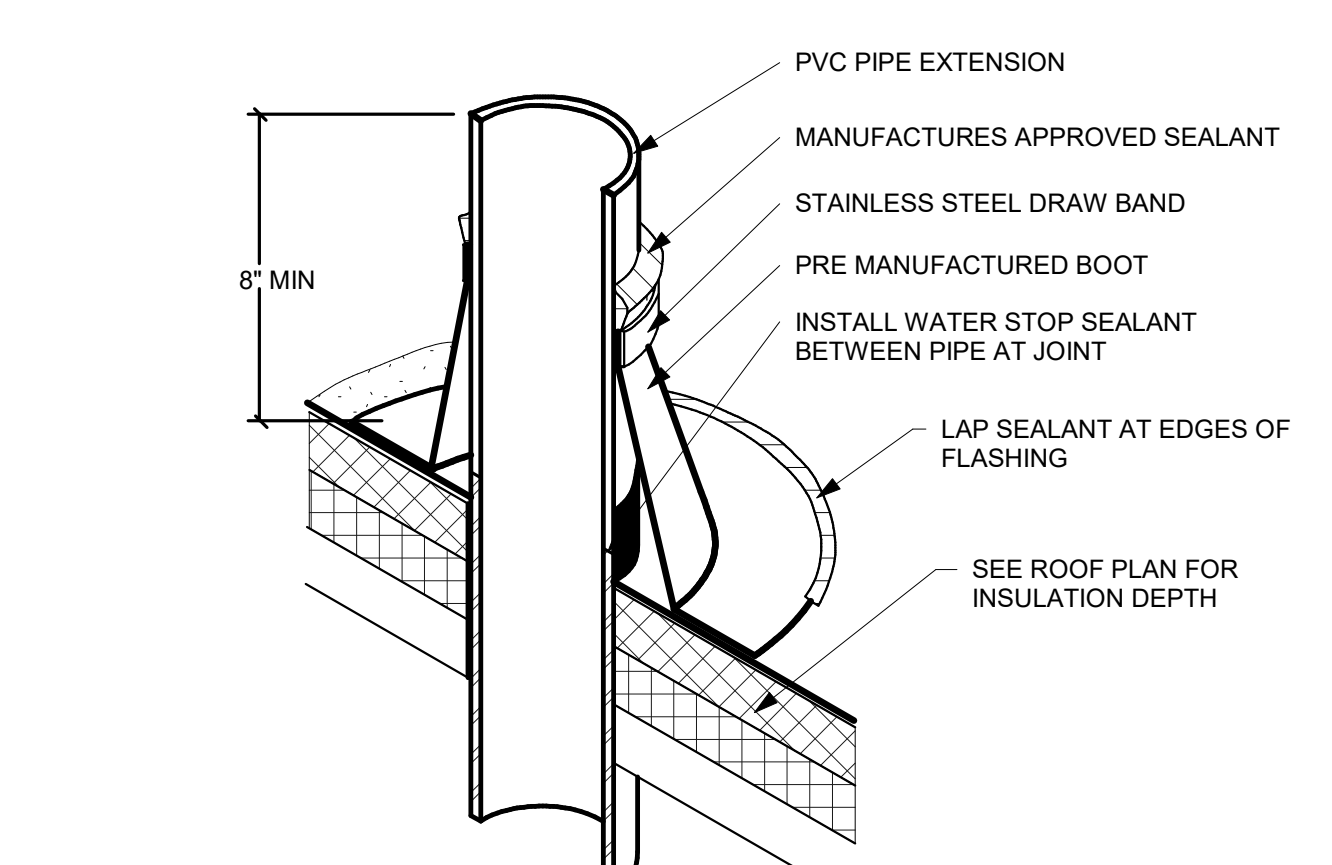
7 ROOF PLAN - AREA C
1/8" = 1'-0"



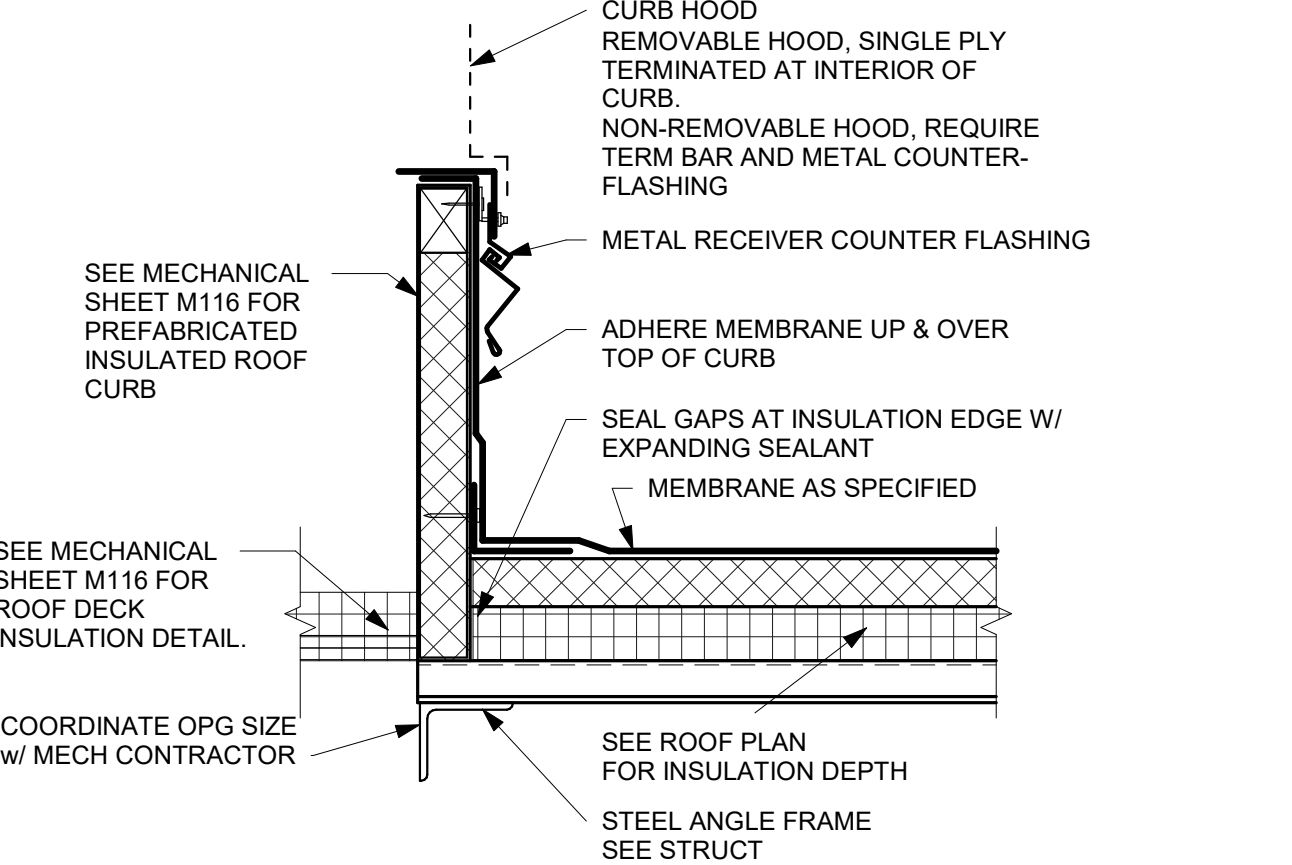
2 ROOF PLAN - AREA D
1/8" = 1'-0"



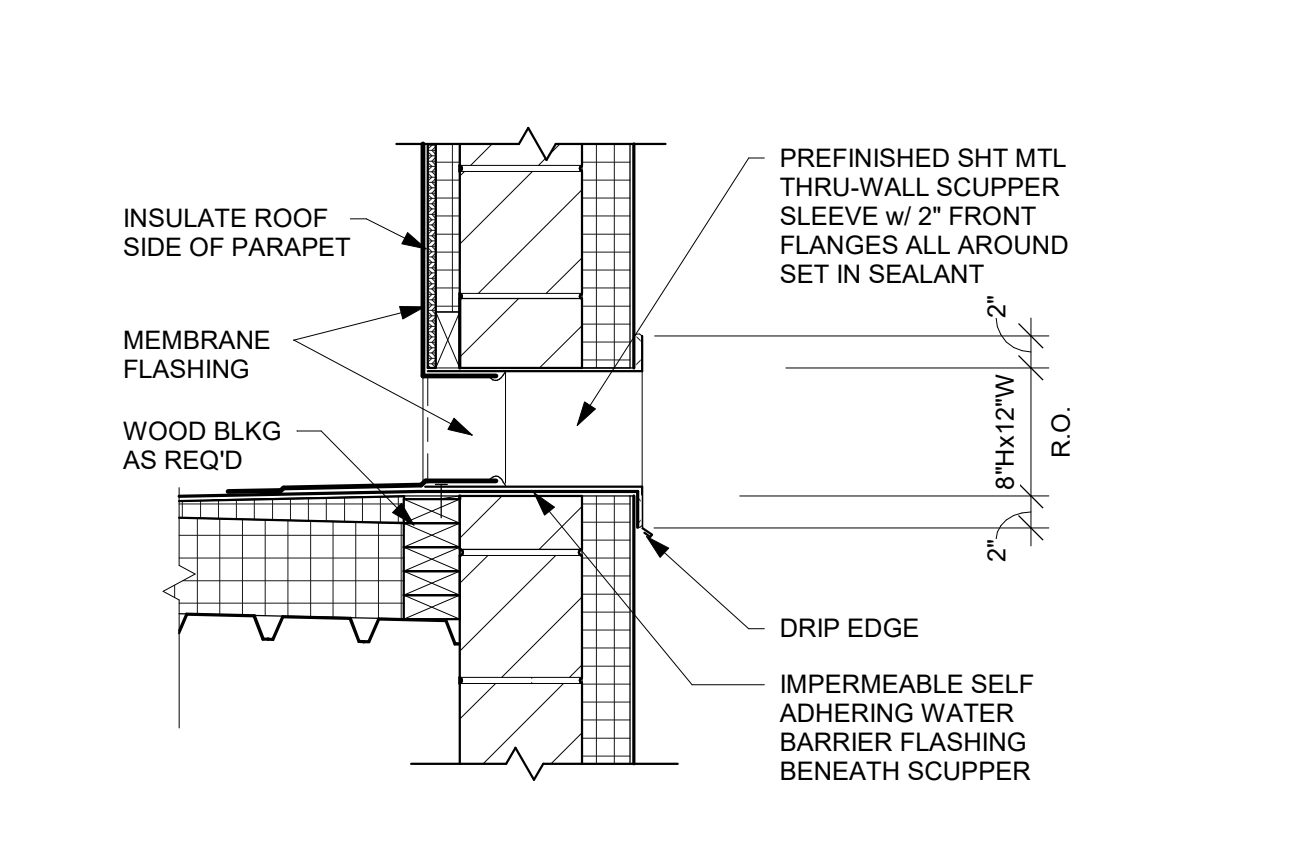
3 TYP ROOF DRAIN
3/8" = 1'-0"



4 PIPE FLASHING
3/8" = 1'-0"



5 CURB FLASHING
3/8" = 1'-0"



6 OVERFLOW SCUPPER
1" = 1'-0"



Consultant:

Project Title:
**LA CRESCENT-HOKAH
HIGH SCHOOL/ MIDDLE SCHOOL**

Project Location:
**1301 LANCER BOULEVARD
LA CRESCENT, MINNESOTA**

HSR Project Number:
19014-1

Project Date:
3.5.2020

Drawn By:
RMW

Key Plan:

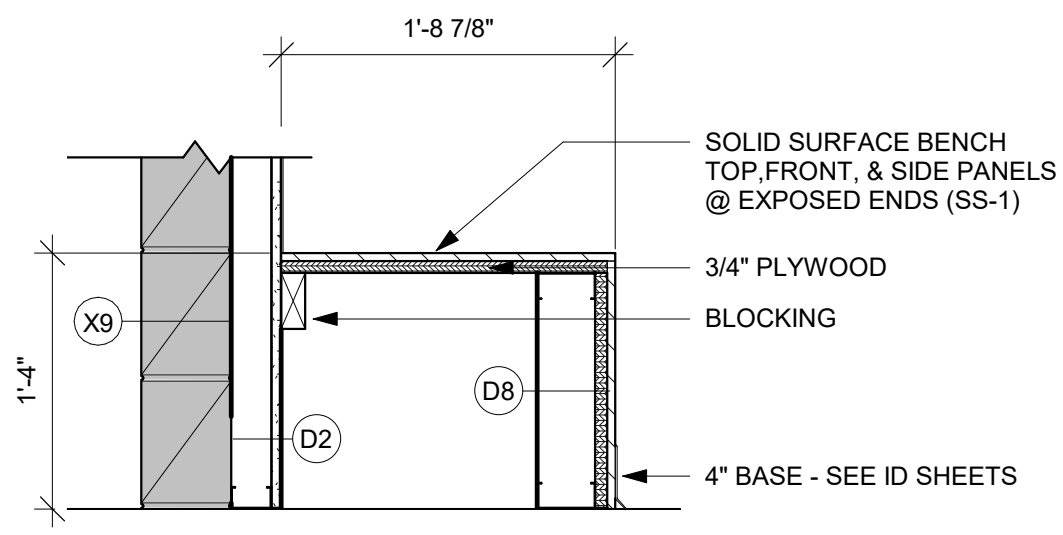
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DOCUMENTS**

No.	Description	Date
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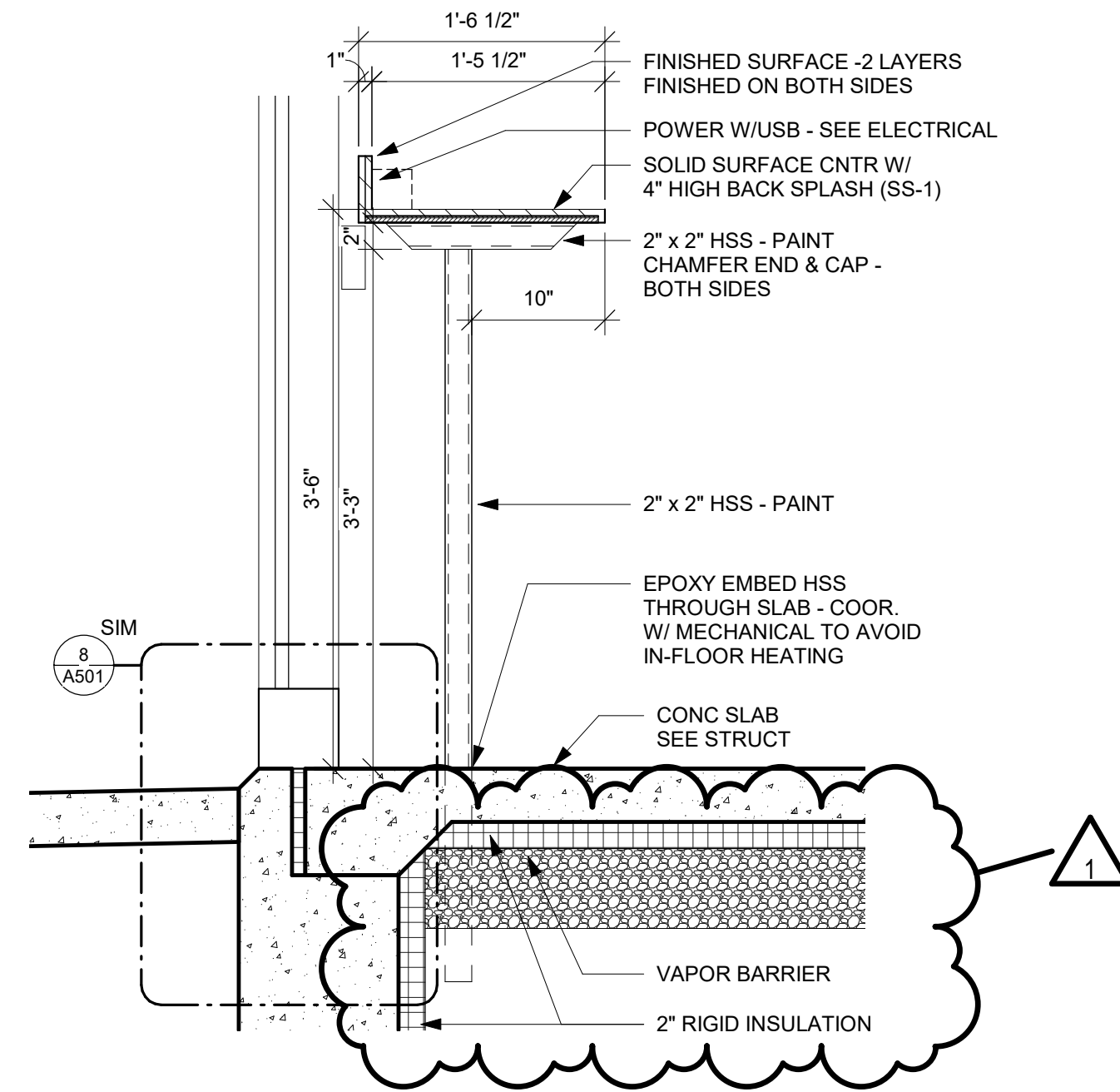
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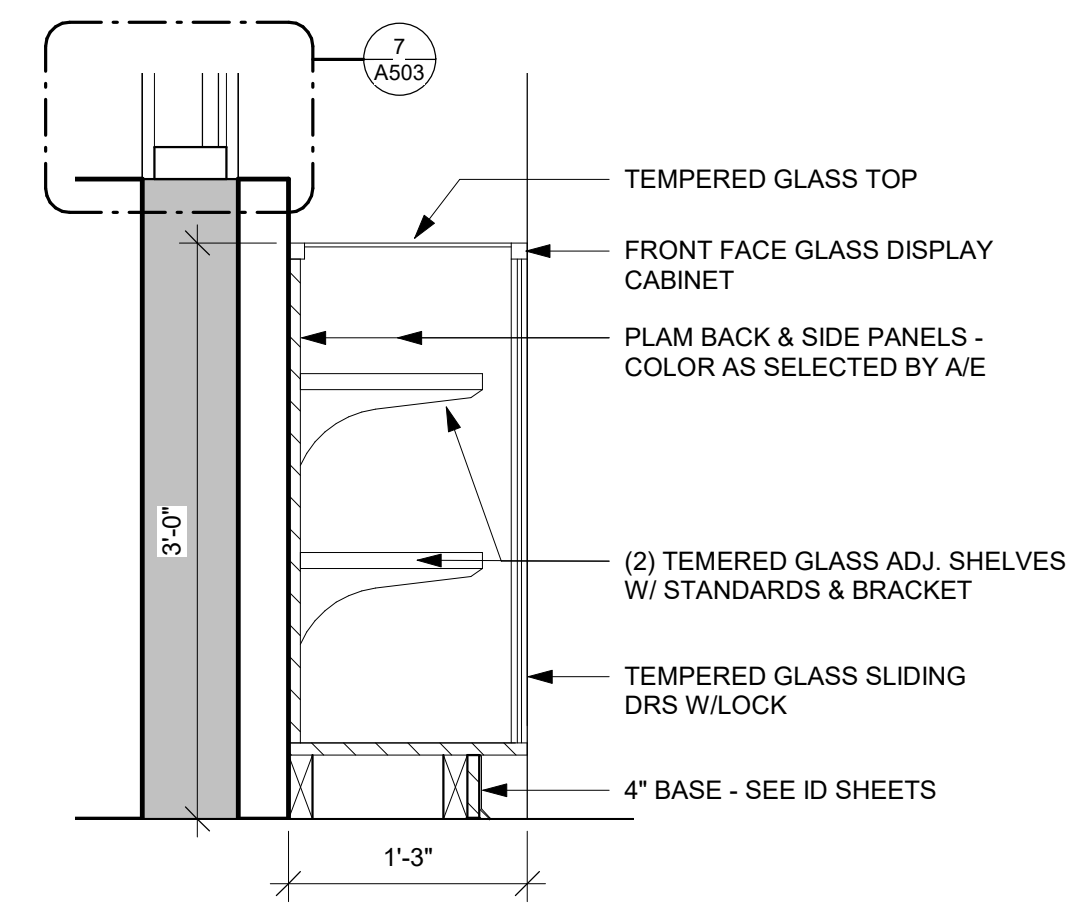
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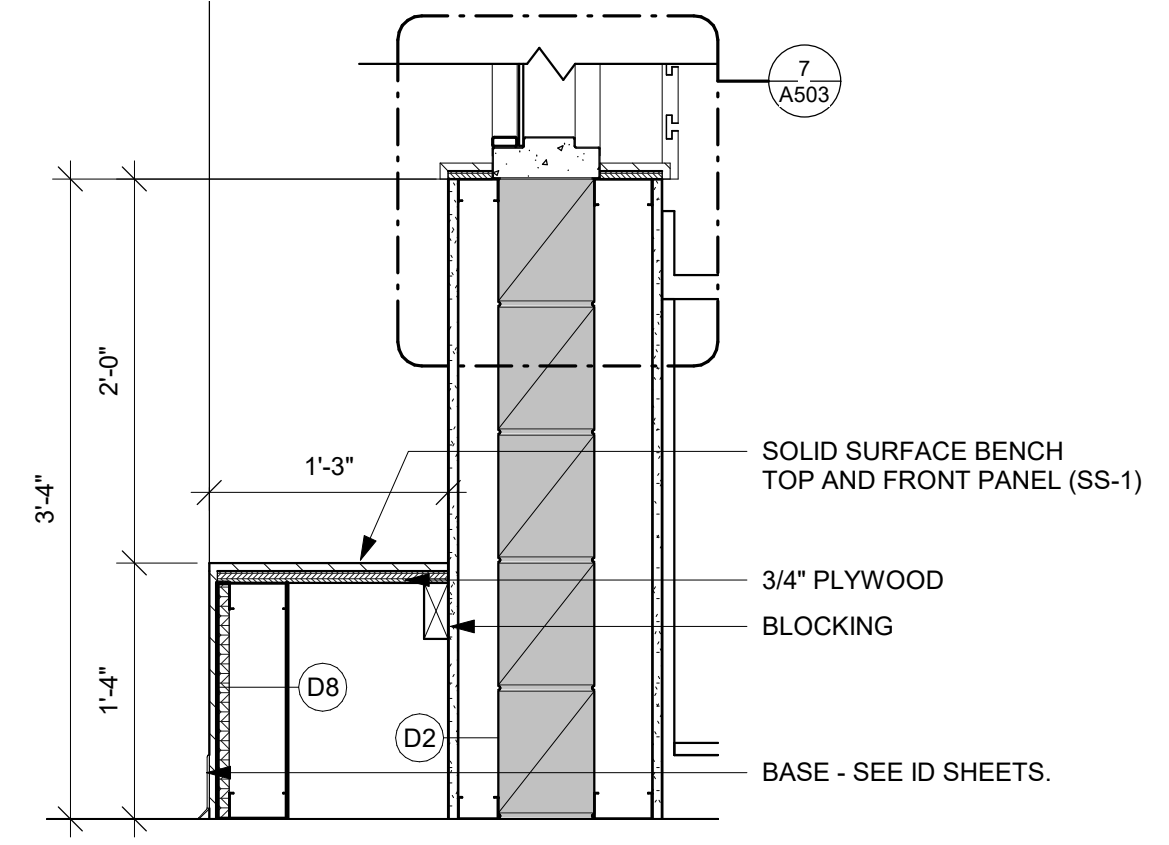
11 BENCH DETAIL
1" = 1'-0"



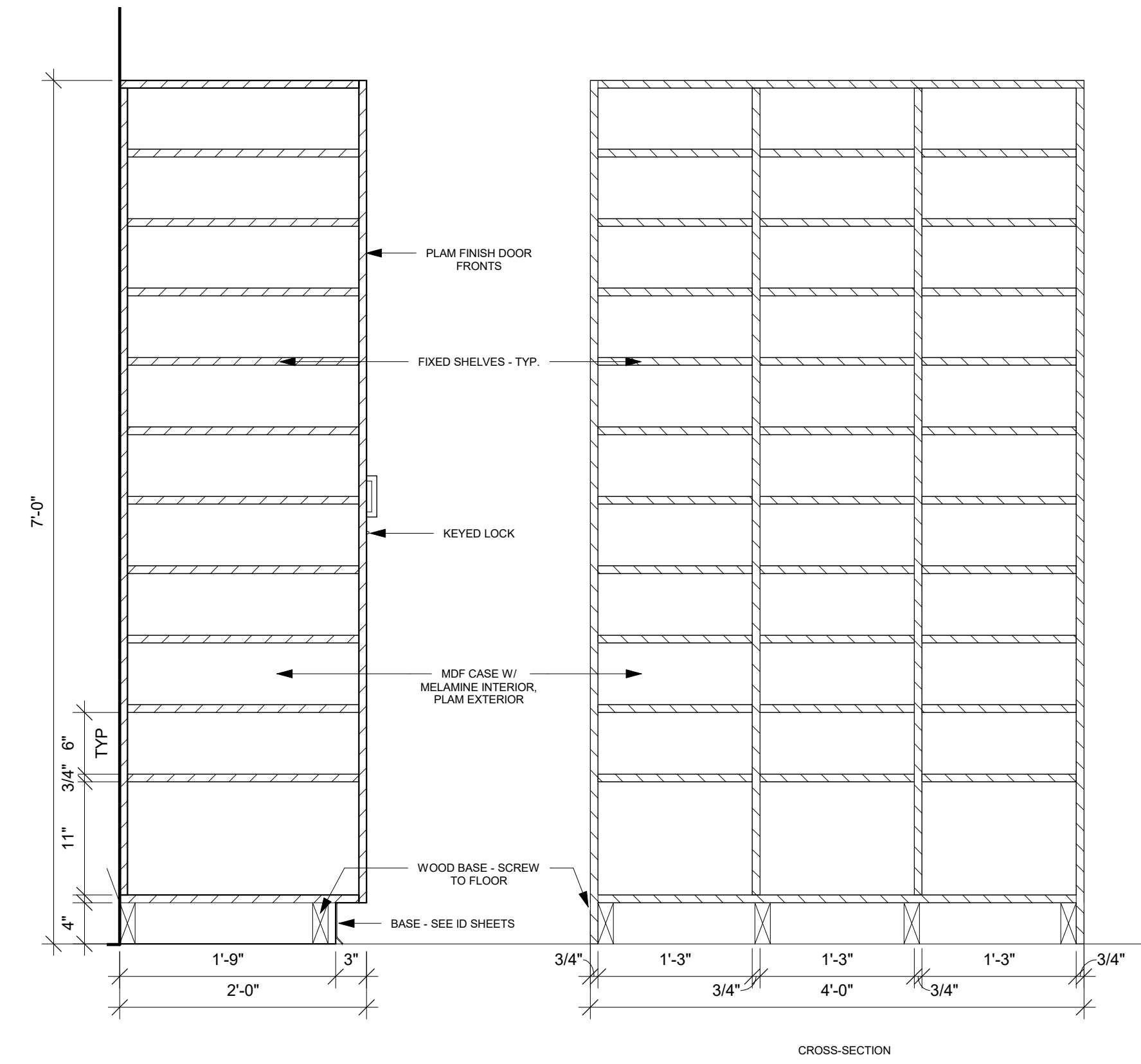
10 CSWK DETAIL
1" = 1'-0"



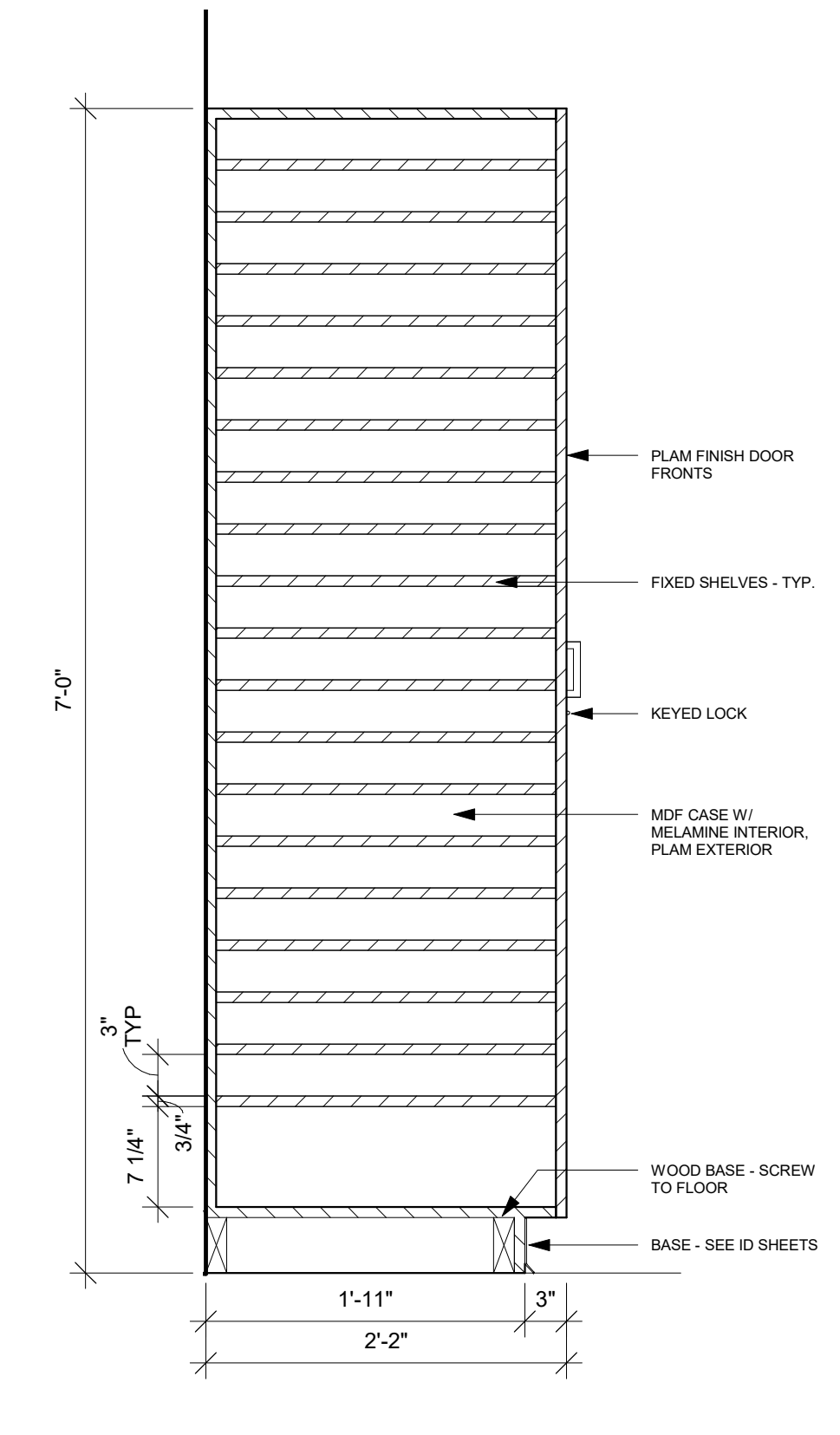
9 CSWK DETAIL
1" = 1'-0"



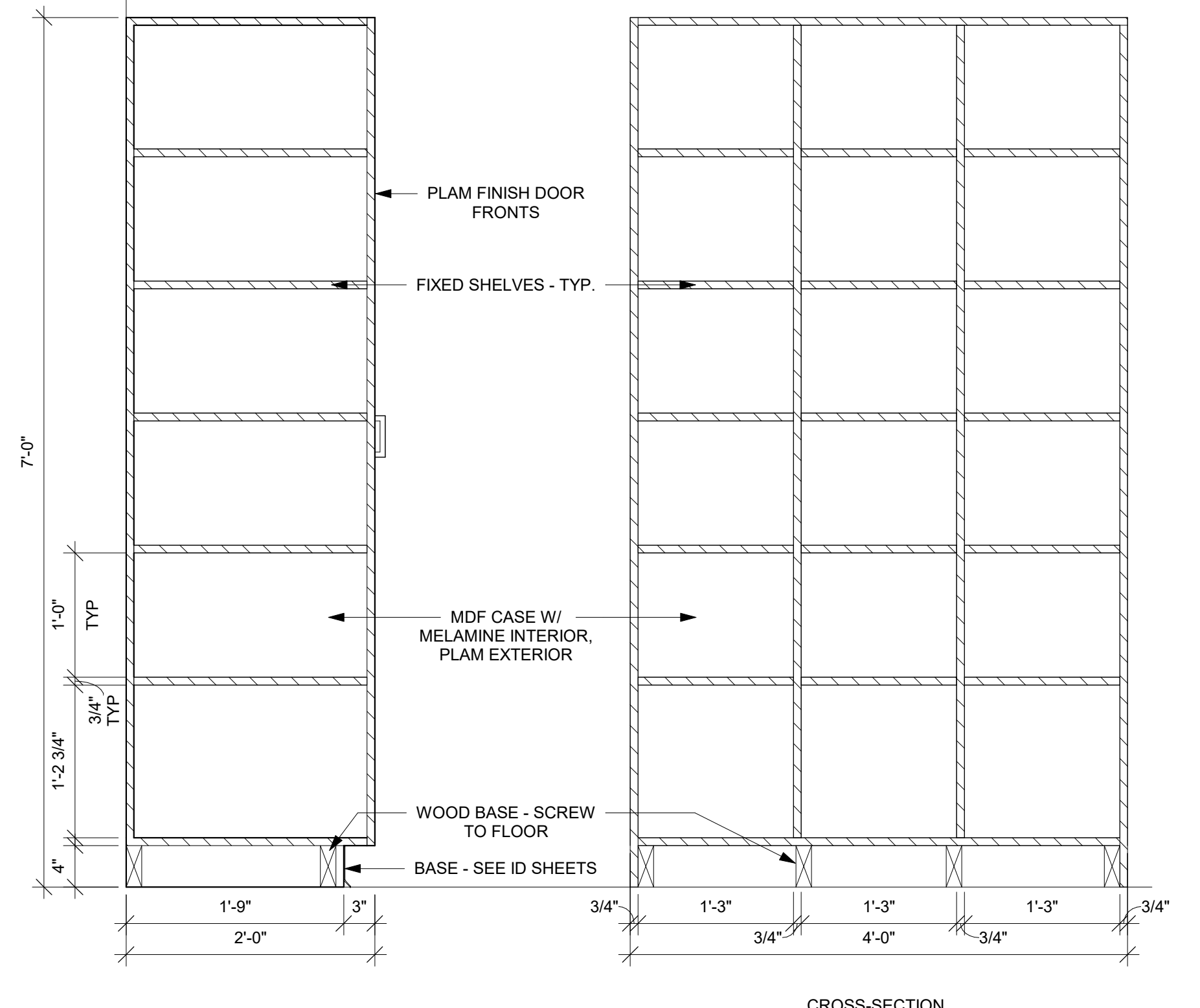
8 BENCH DETAIL
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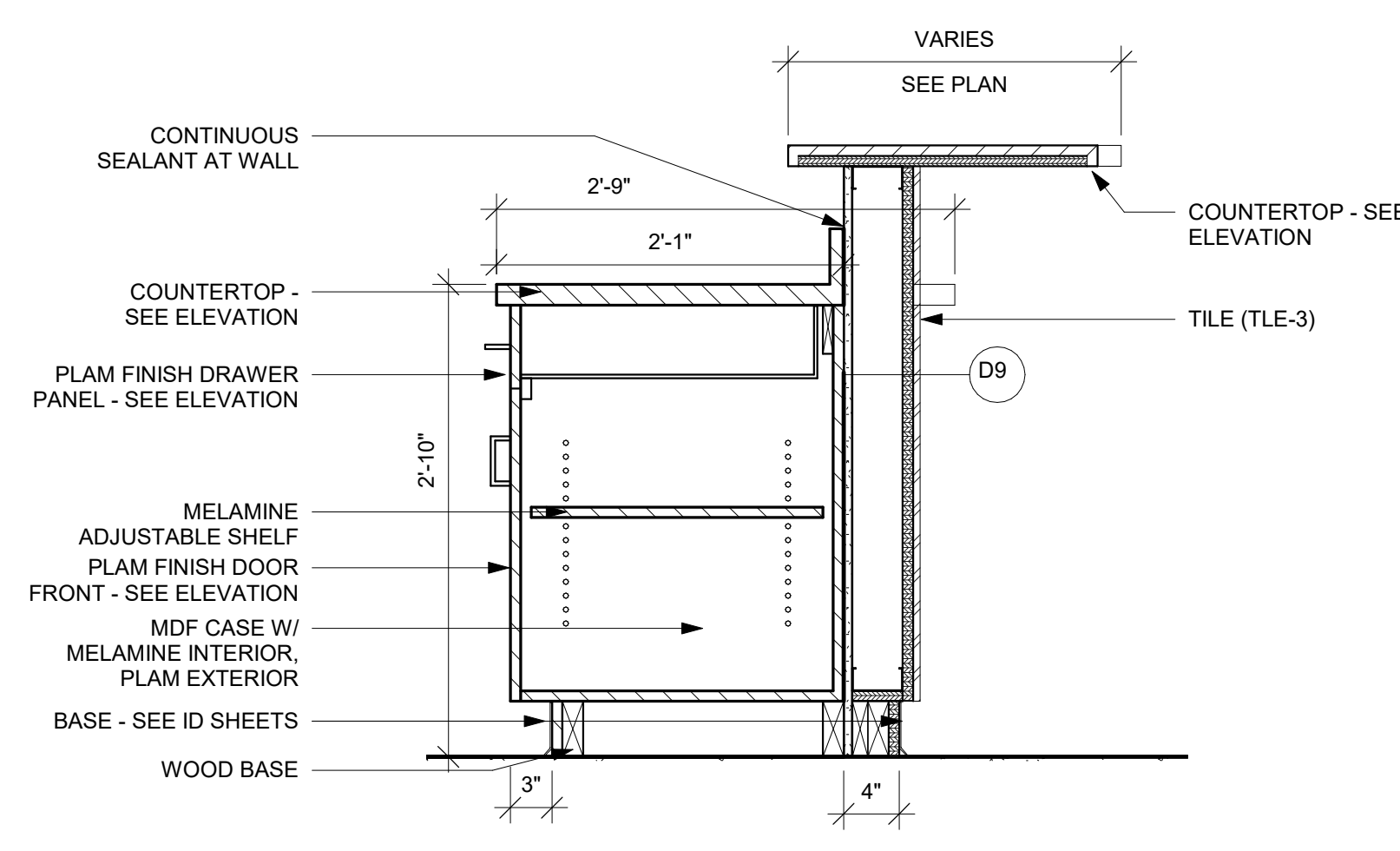
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1" = 1'-0"



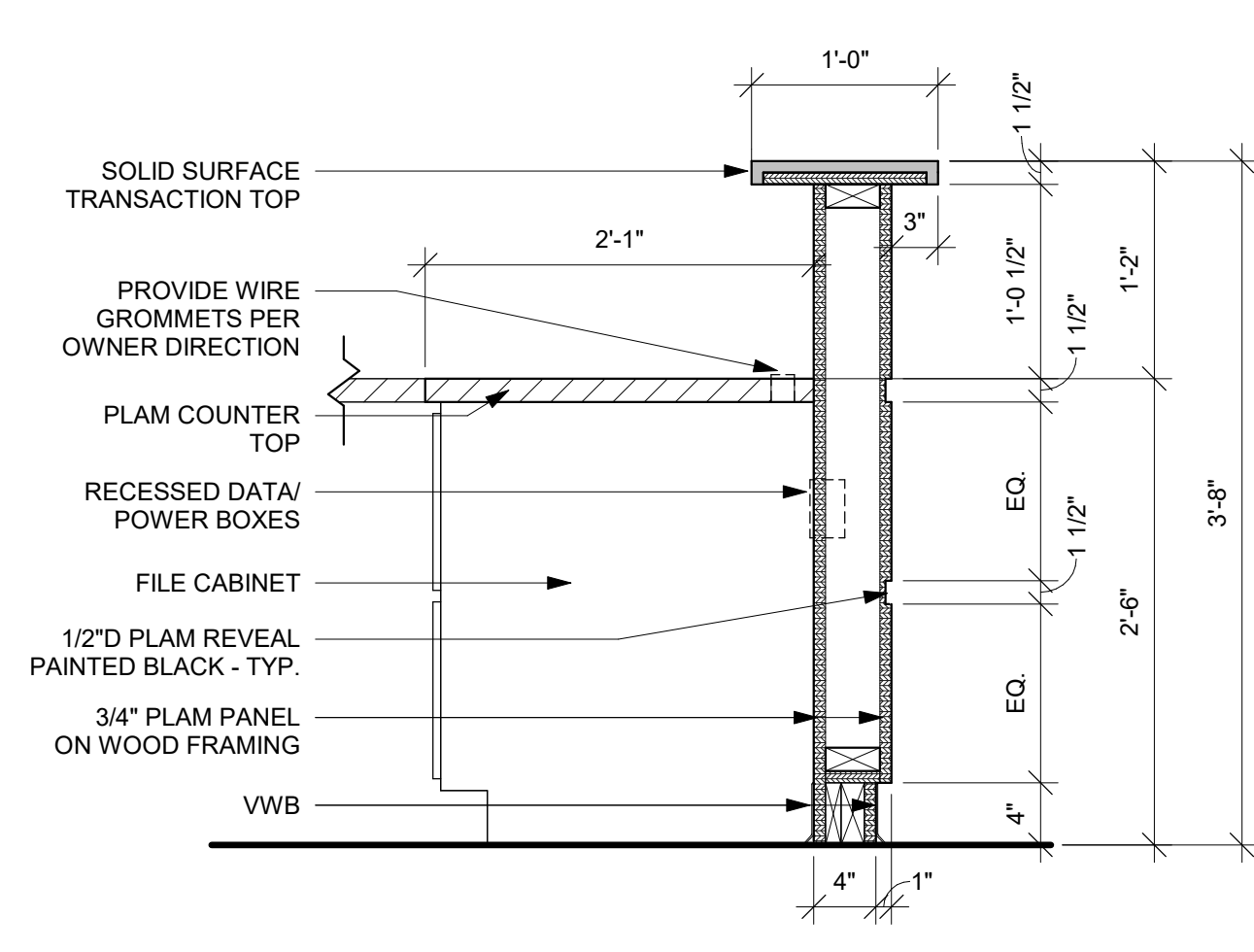
6 CSWK - PAPER STORAGE
1" = 1'-0"



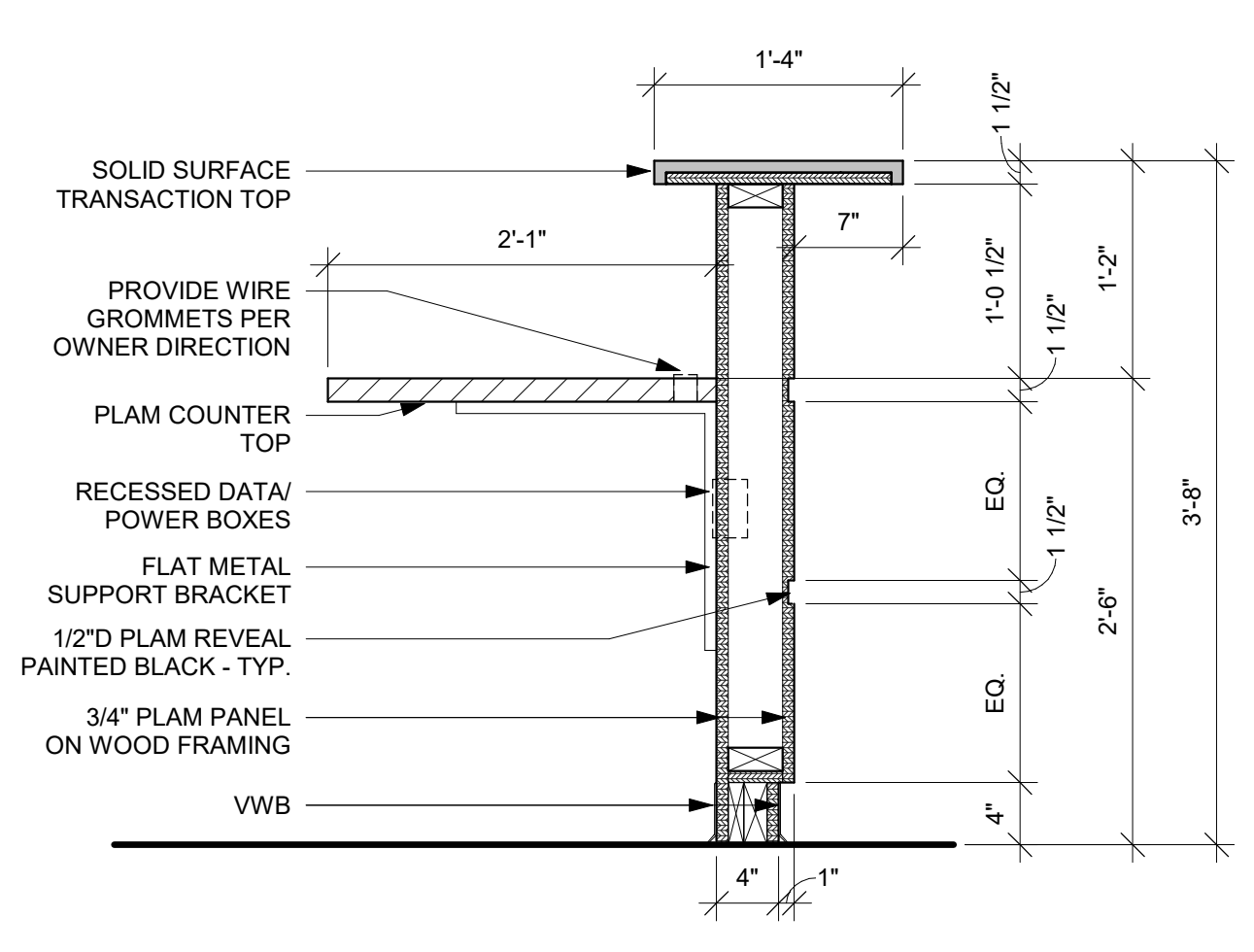
5 CSWK - CUBBIES
1" = 1'-0"



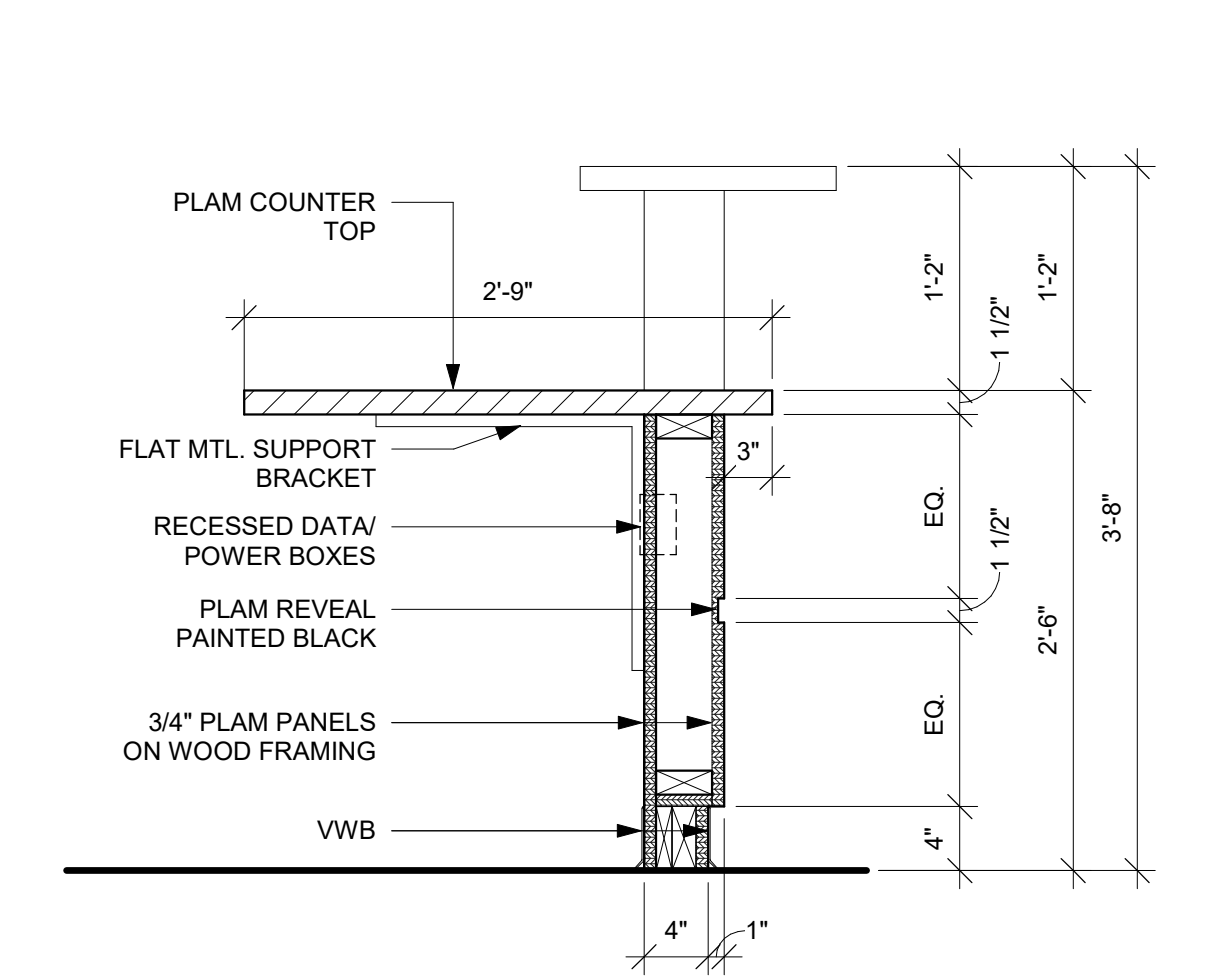
4 CSWK DETAIL
1" = 1'-0"



3 CSWK DETAIL
1" = 1'-0"



2 CSWK DETAIL
1" = 1'-0"



1 CSWK DETAIL
1" = 1'-0"



Consultant:

Project Title:
**LA CRESCENT-HOKAH
HIGH SCHOOL/ MIDDLE SCHOOL**

Project Location:
1301 LANCER BOULEVARD
LA CRESCENT, MINNESOTA

Sheet Title:
WALL SECTIONS

HSR Project Number:
19014-1

Project Date:
3.5.2020

Drawn By:
HSR

Key Plan:

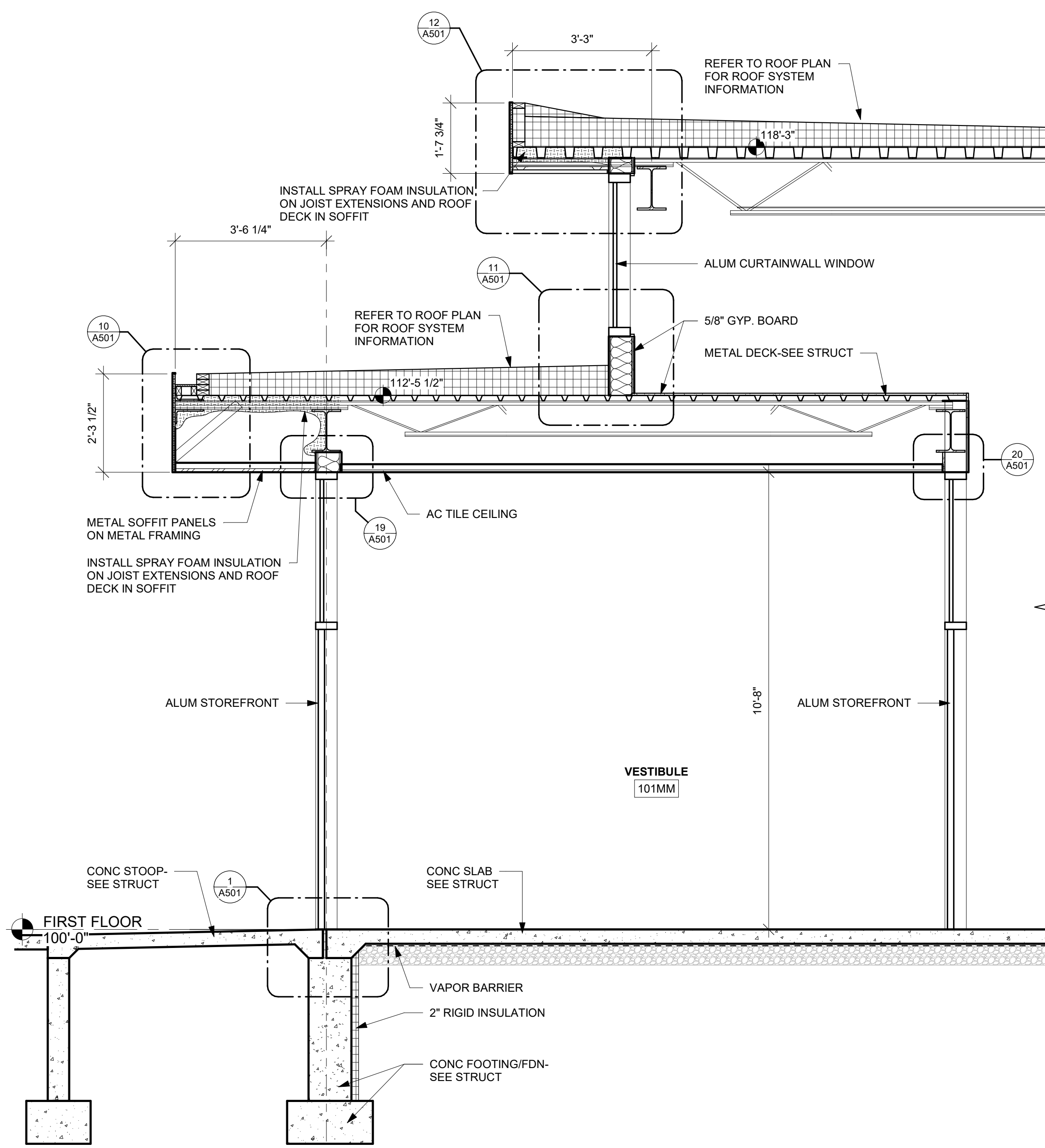
**BID
DOCUMENTS**

No.	Description	Date
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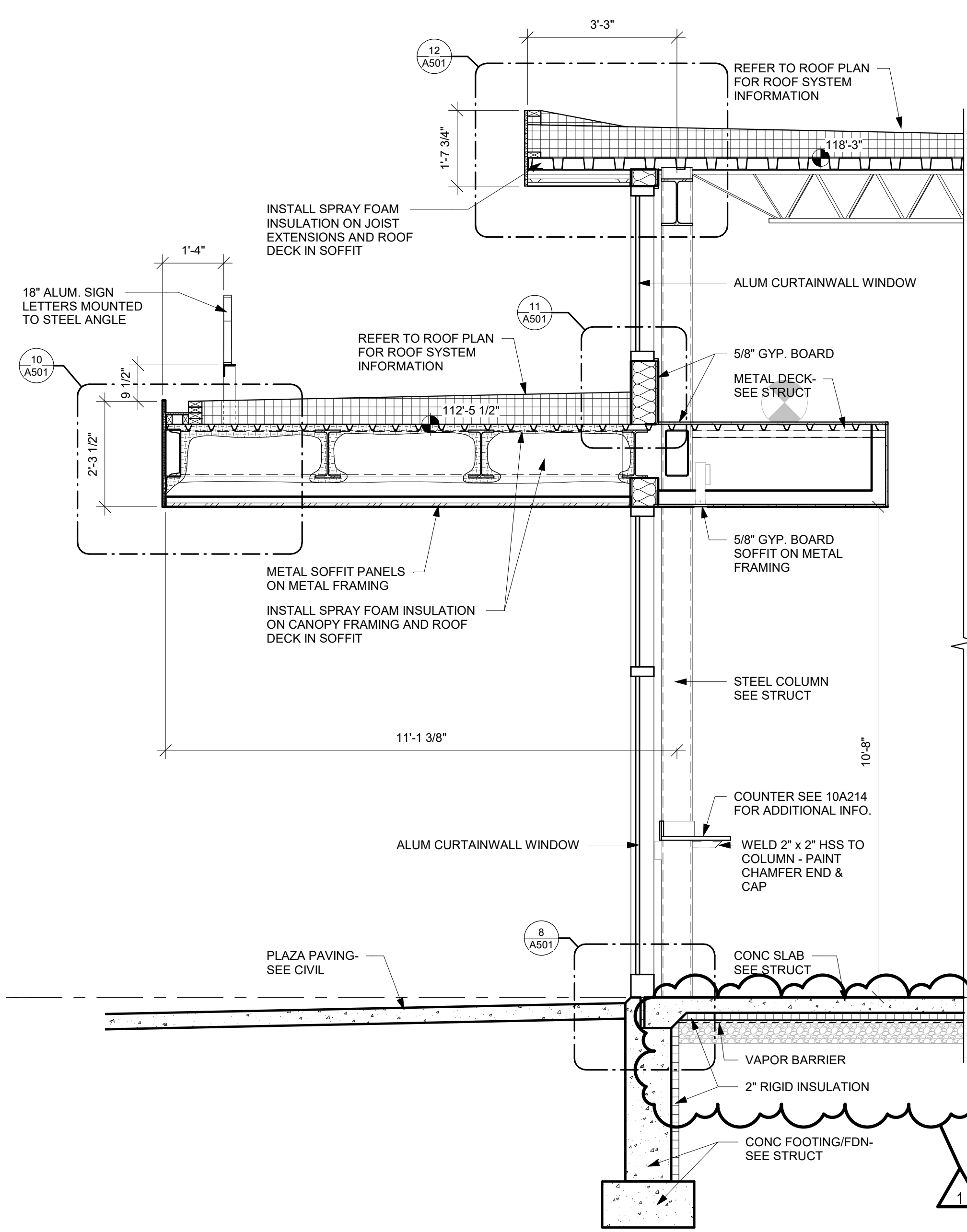
Graphic Scale:
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Last Update:
3/16/2020 4:58:25 PM

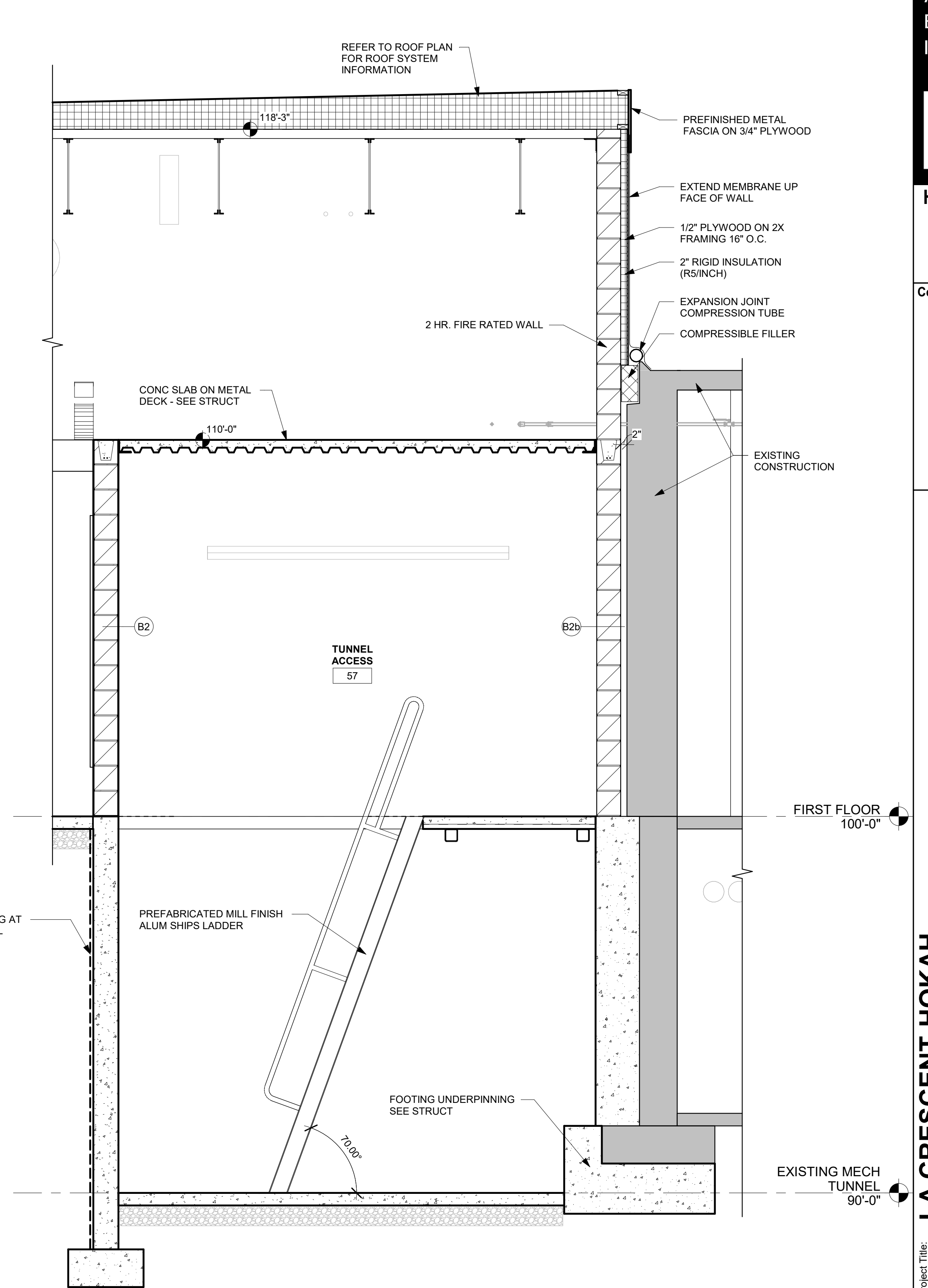
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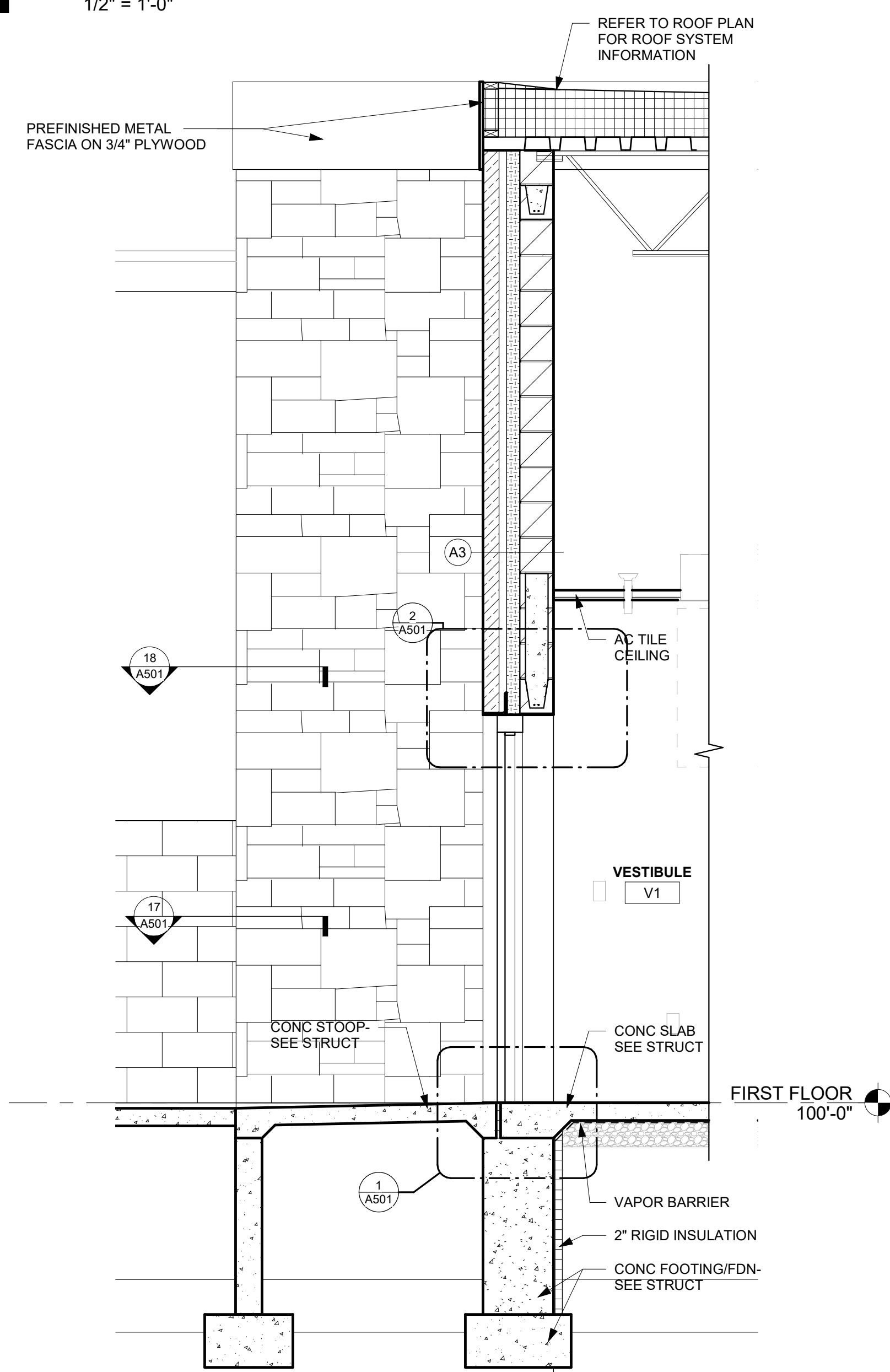
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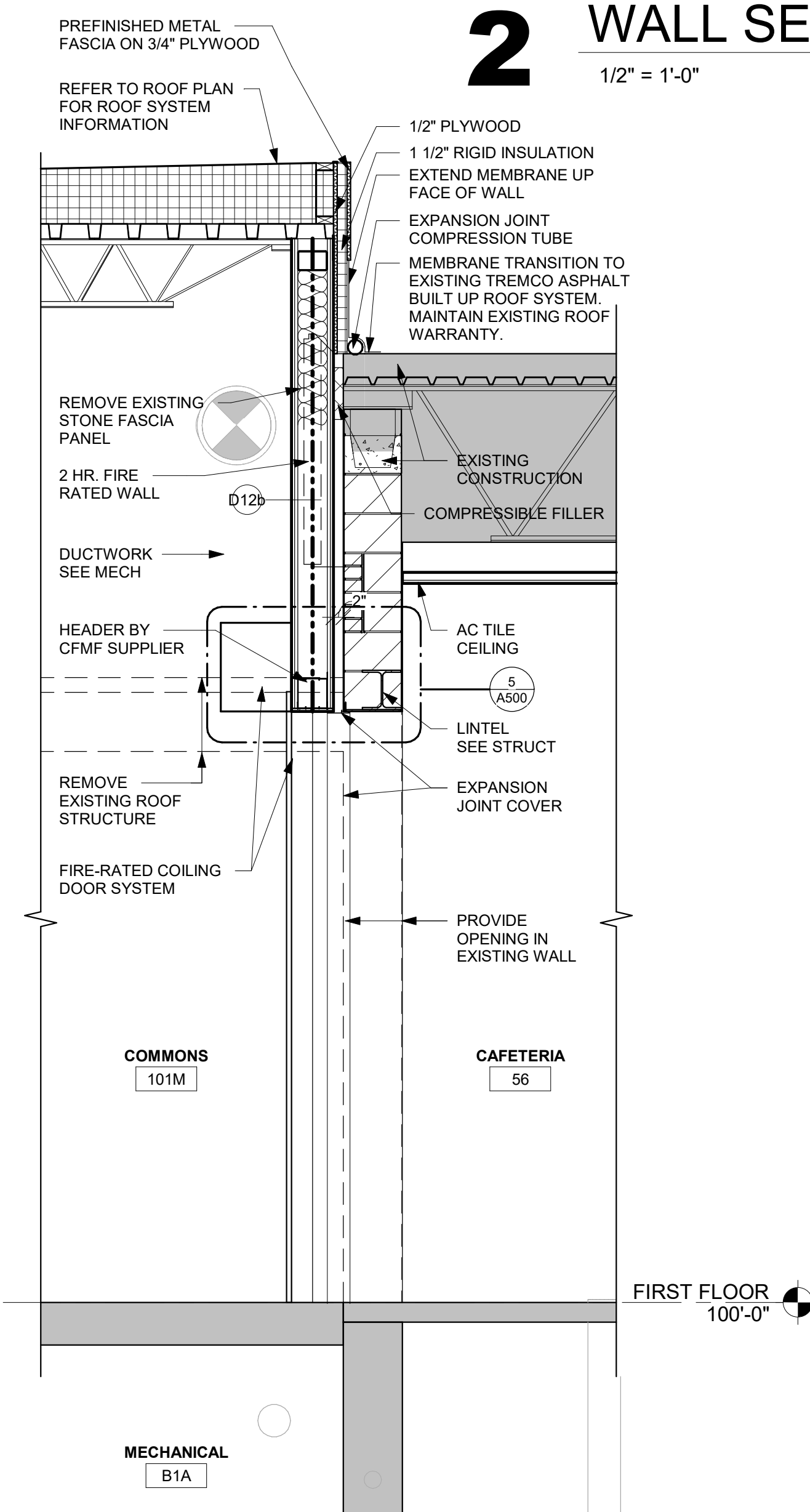
2 WALL SECTION
1/2" = 1'-0"



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



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



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



Consultant:

Project Title: **LA CRESCENT-HOKAH
HIGH SCHOOL/ MIDDLE SCHOOL**
Project Location: **1301 LANCER BOULEVARD
LA CRESCENT, MINNESOTA**
Sheet Title: **DETAILS**

HSR Project Number: **19014-1**

Project Date: **3.5.2020**

Drawn By: **RMW**

Key Plan:

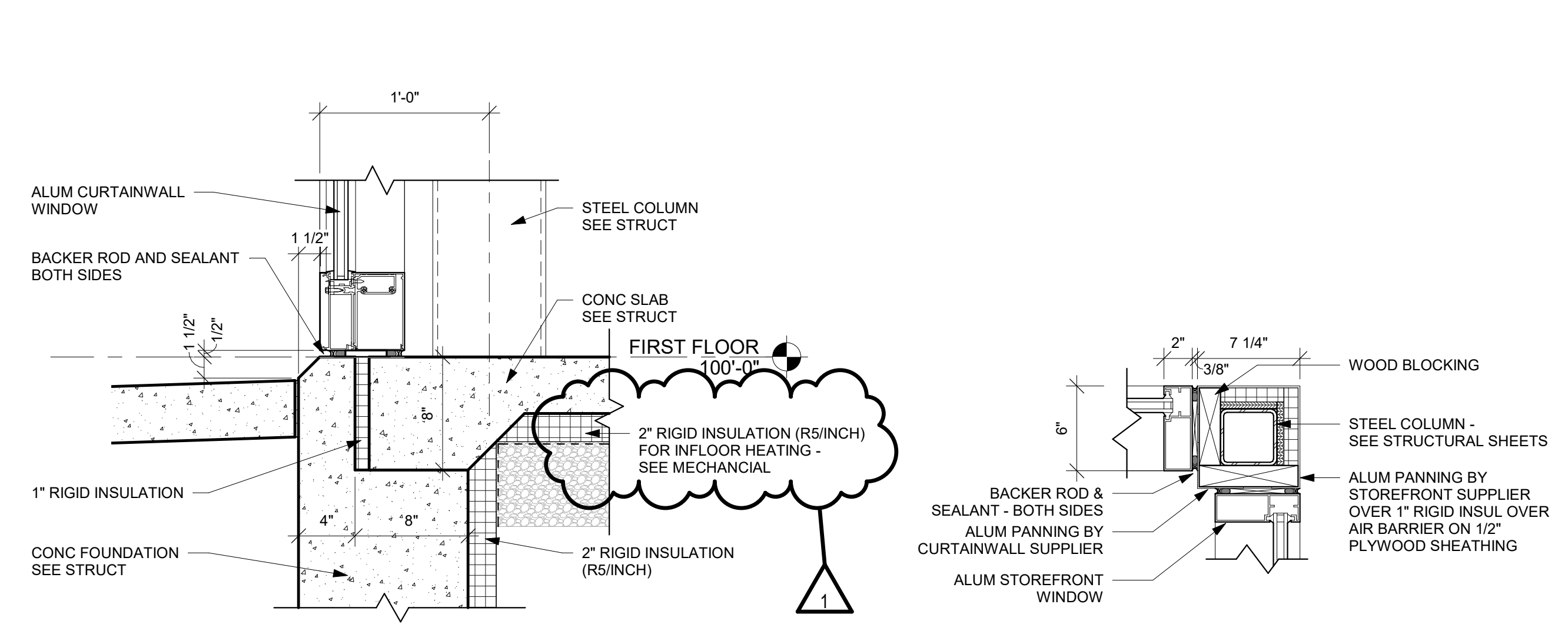
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DOCUMENTS**

No.	Description	Date
1	ADDENDUM 1	3/16/20

Graphic Scale: **VARIES**

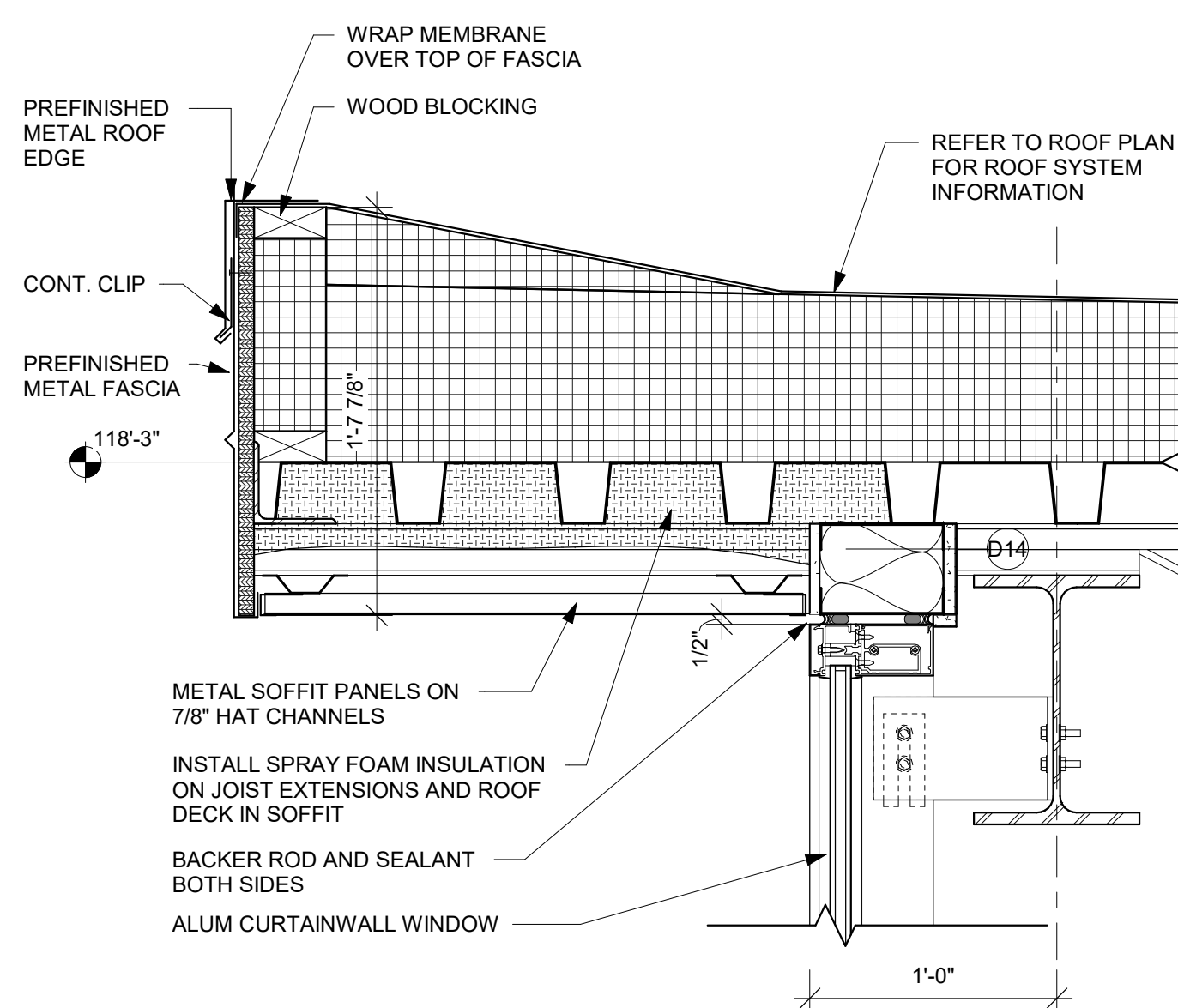
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A501

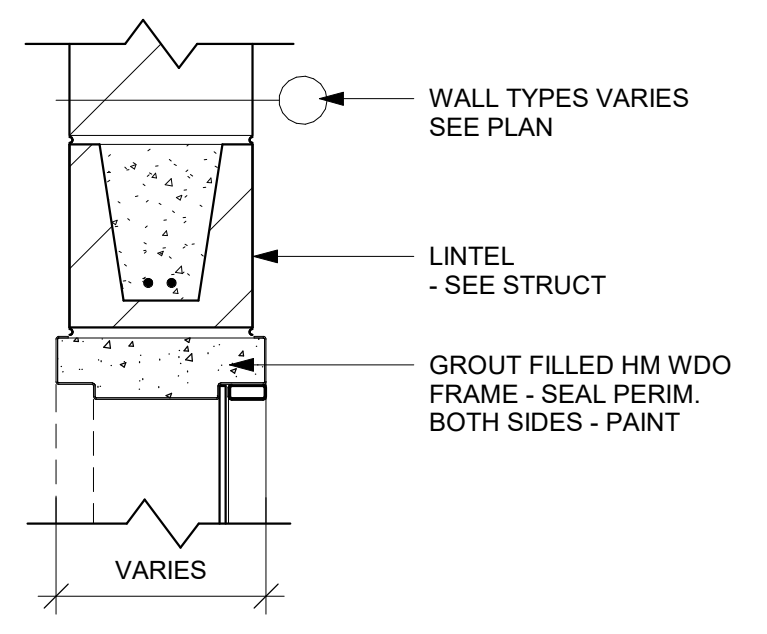


8 WINDOW SILL DETAIL
1 1/2" = 1'-0"

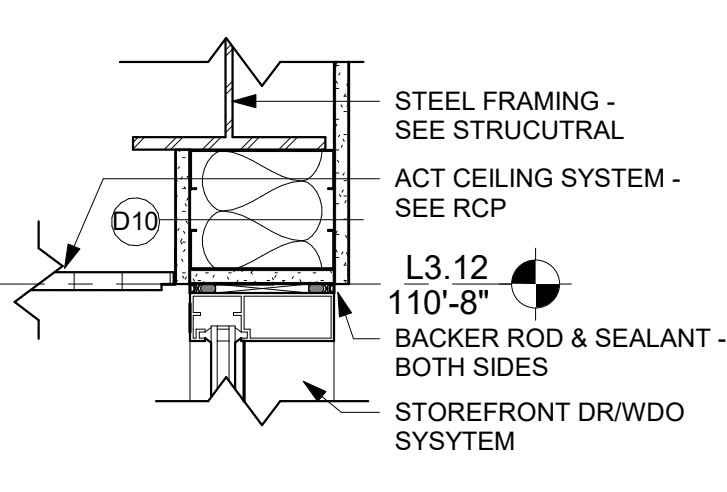
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1 1/2" = 1'-0"



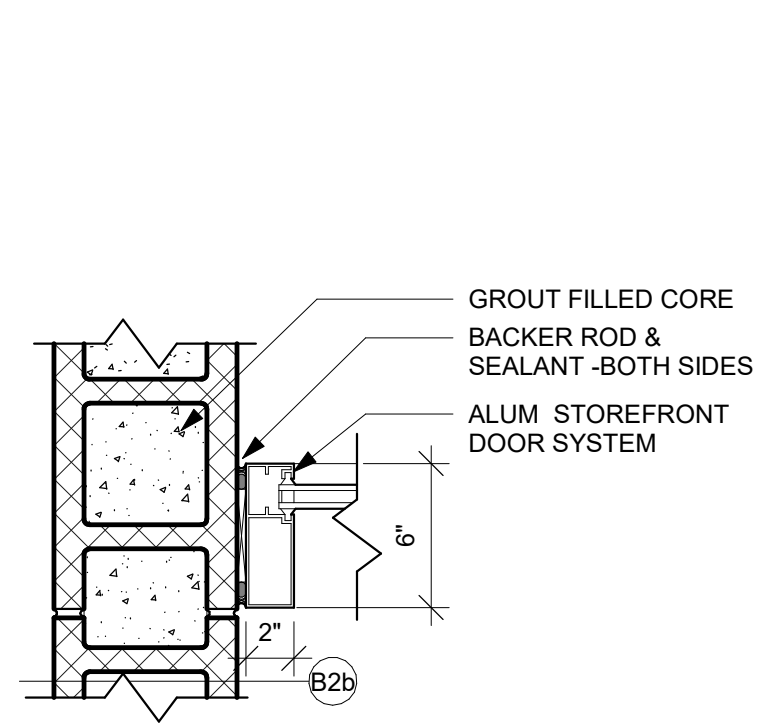
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1 1/2" = 1'-0"



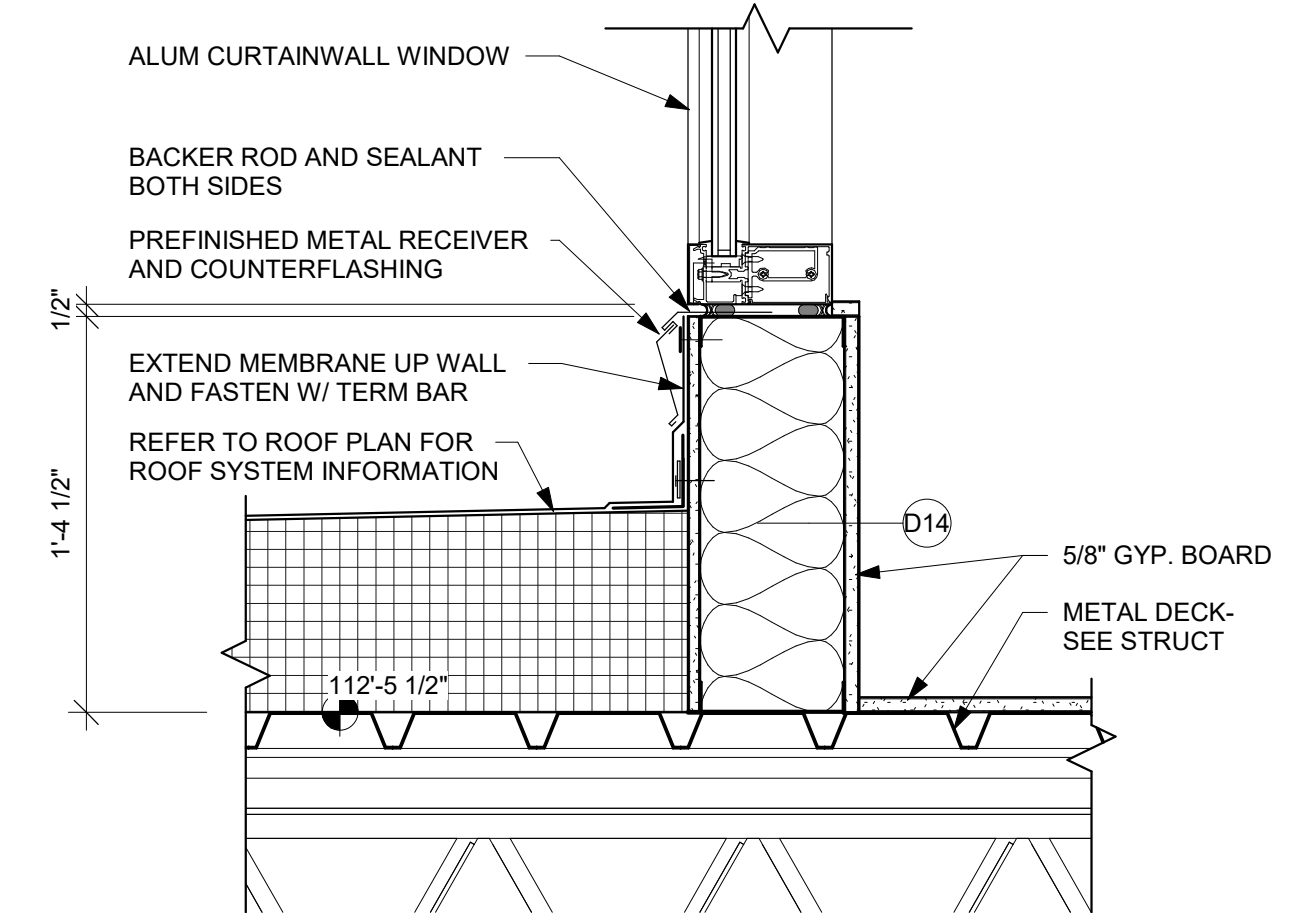
16 WDO HEAD DETAIL
1 1/2" = 1'-0"



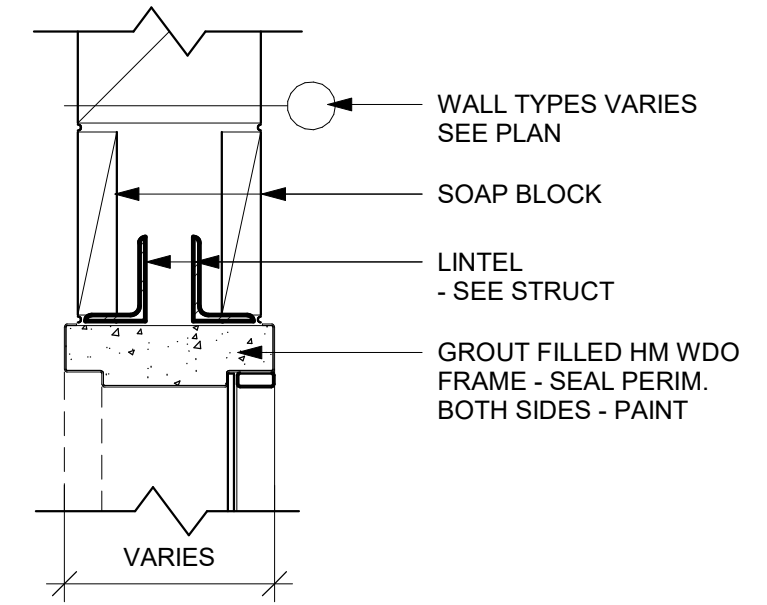
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1 1/2" = 1'-0"



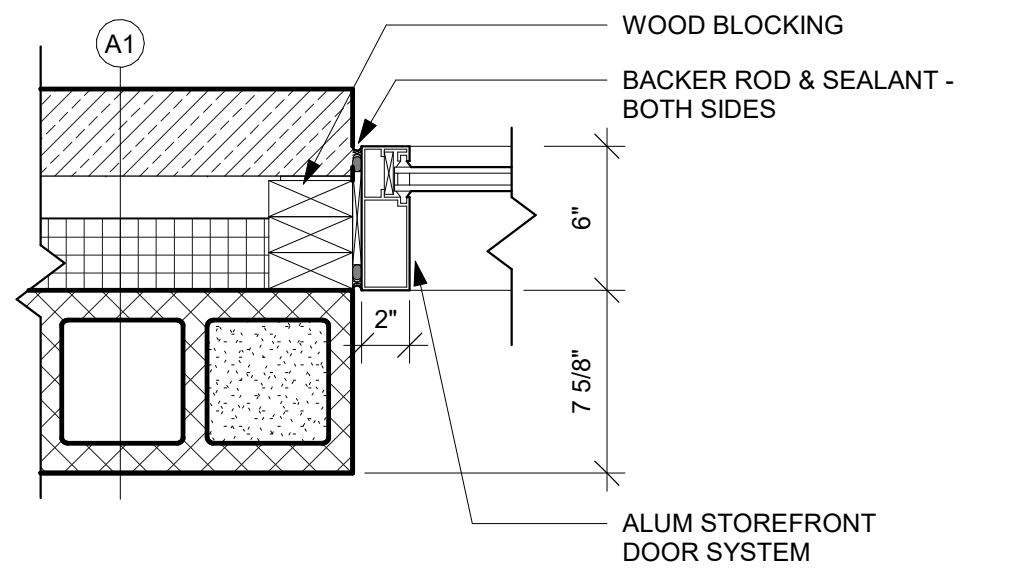
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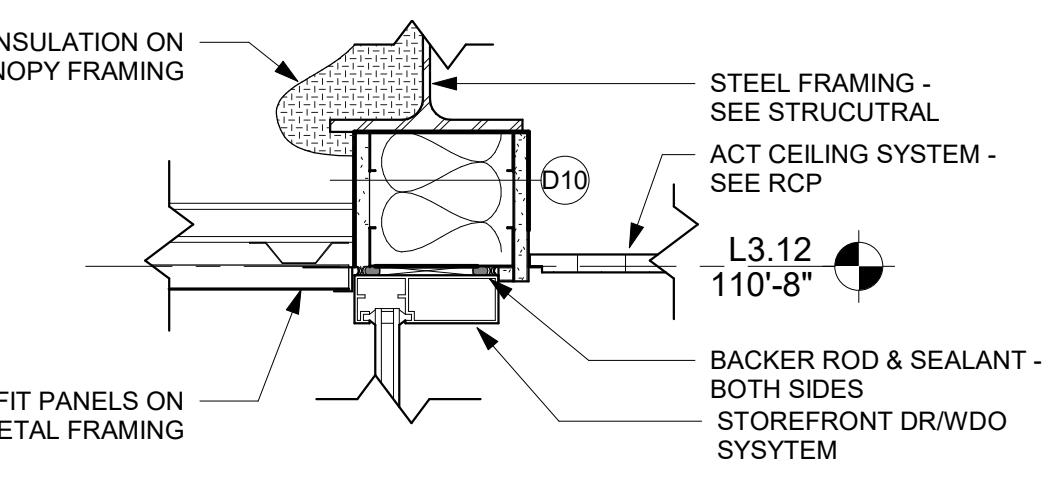
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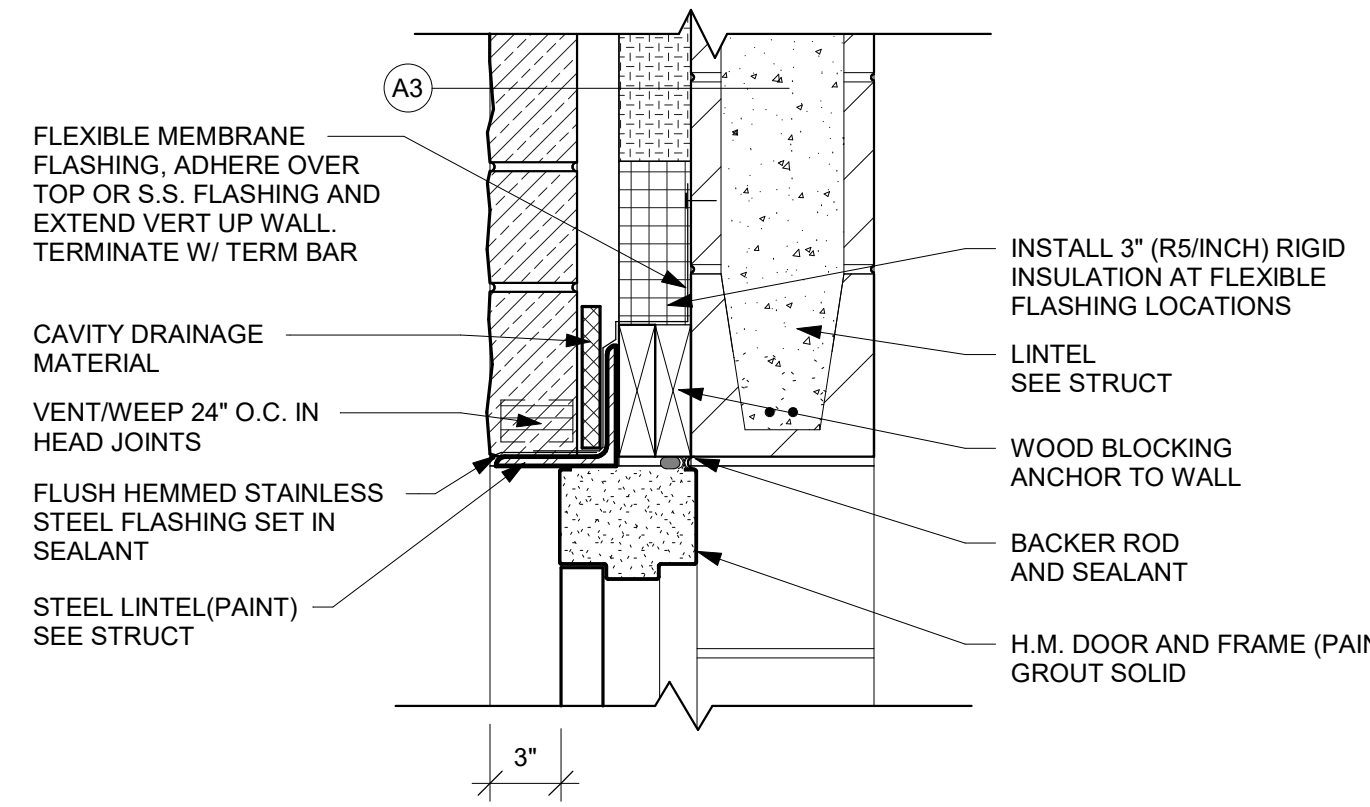
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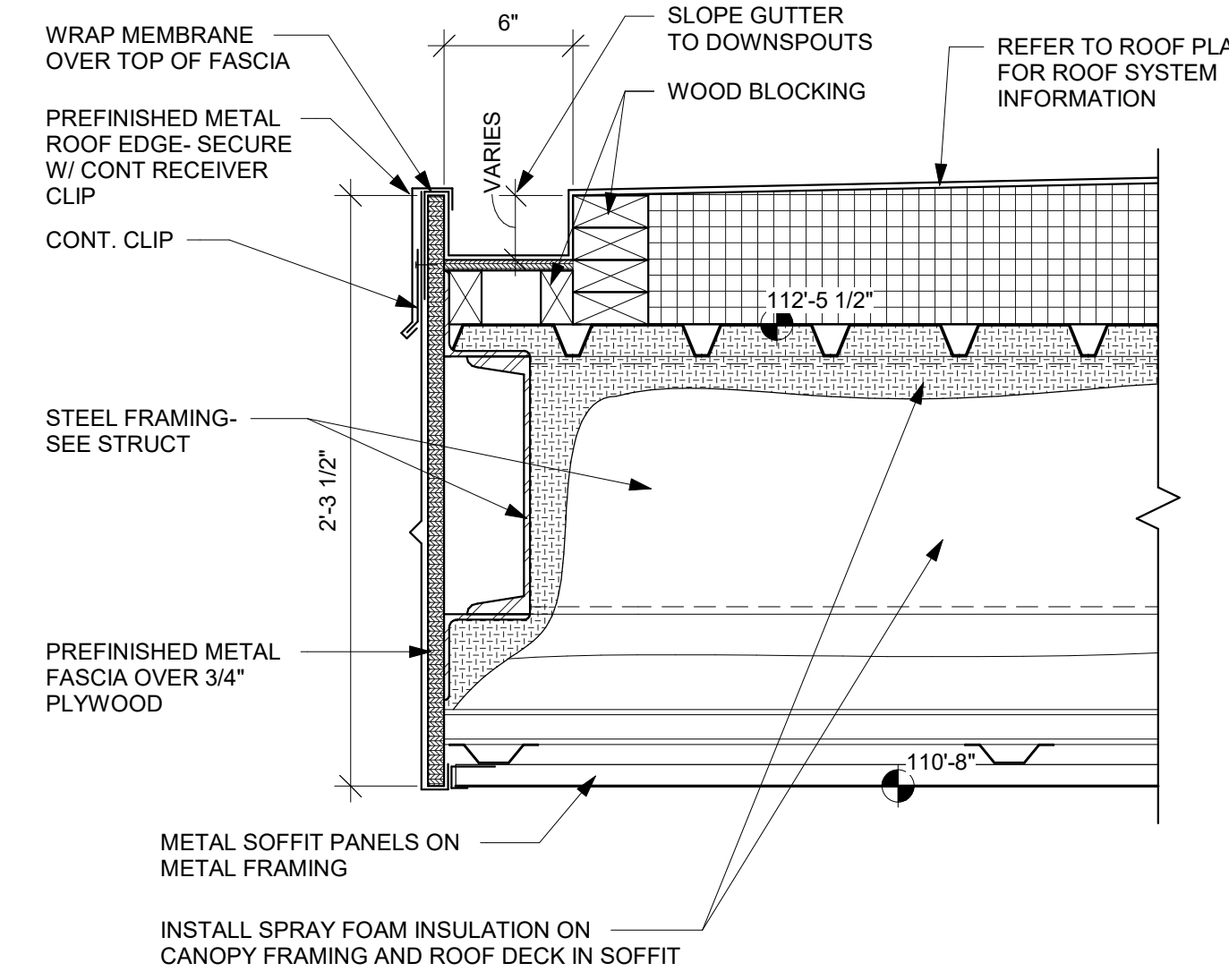
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1 1/2" = 1'-0"



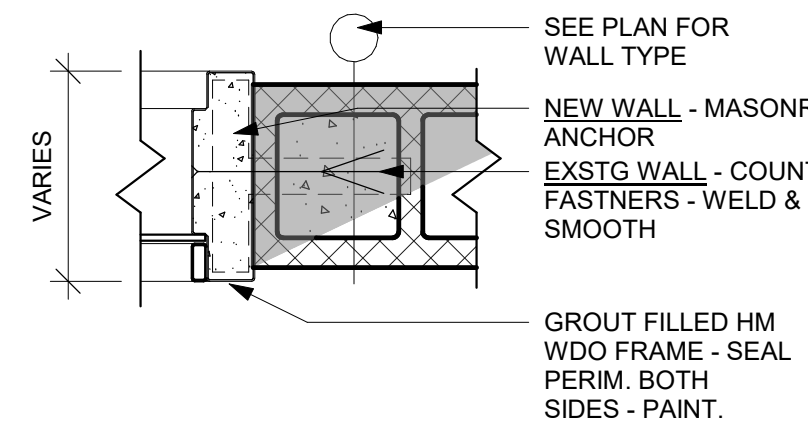
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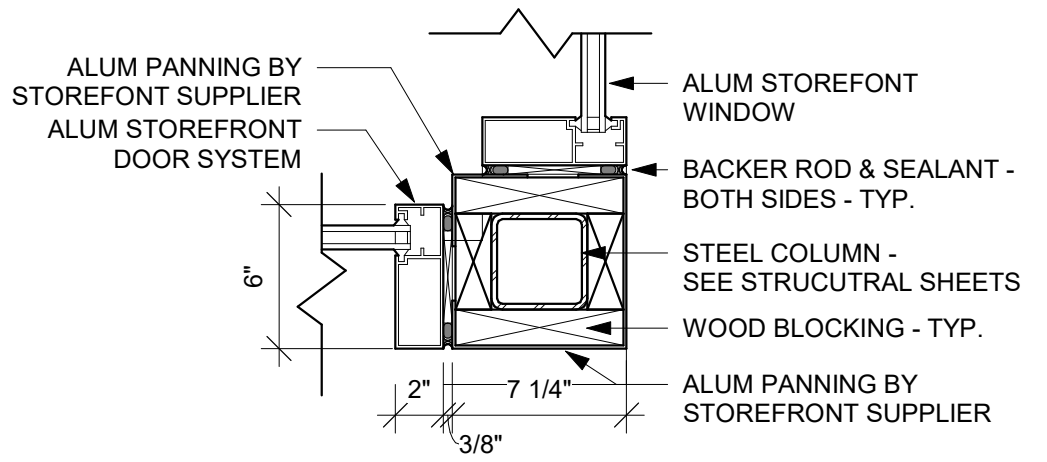
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1 1/2" = 1'-0"



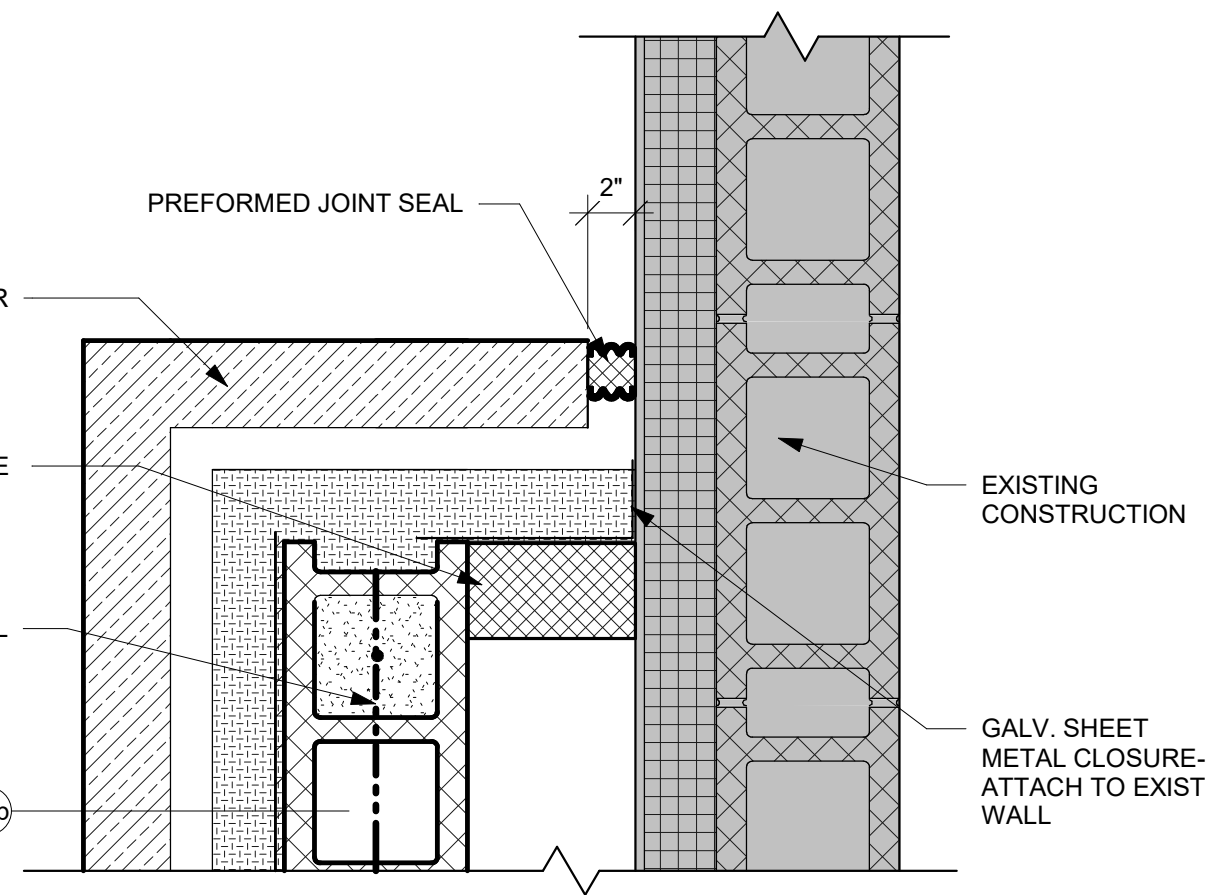
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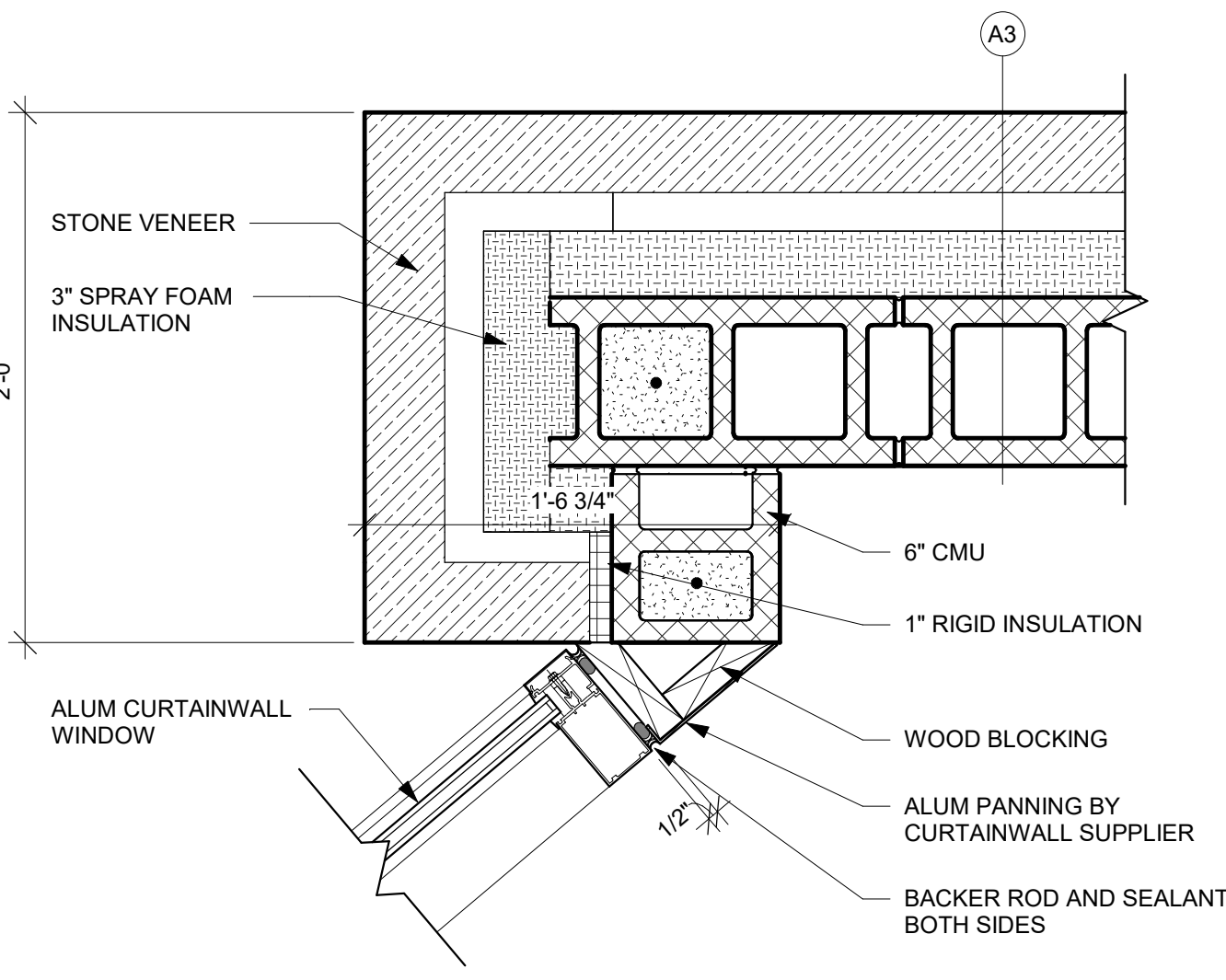
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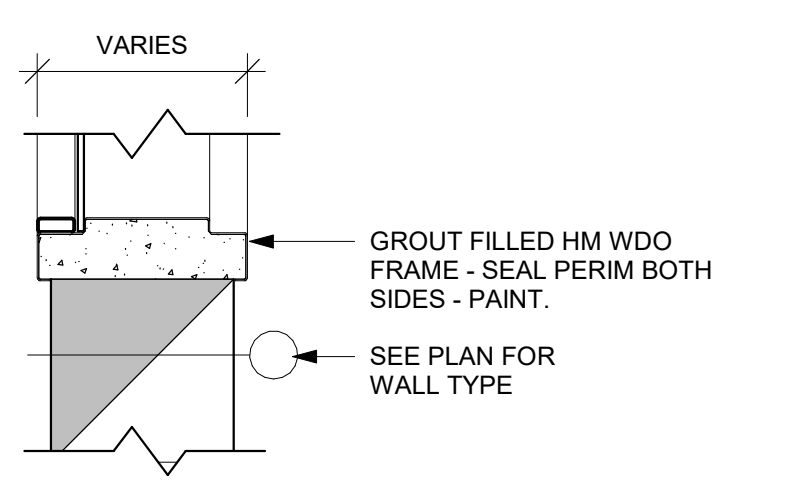
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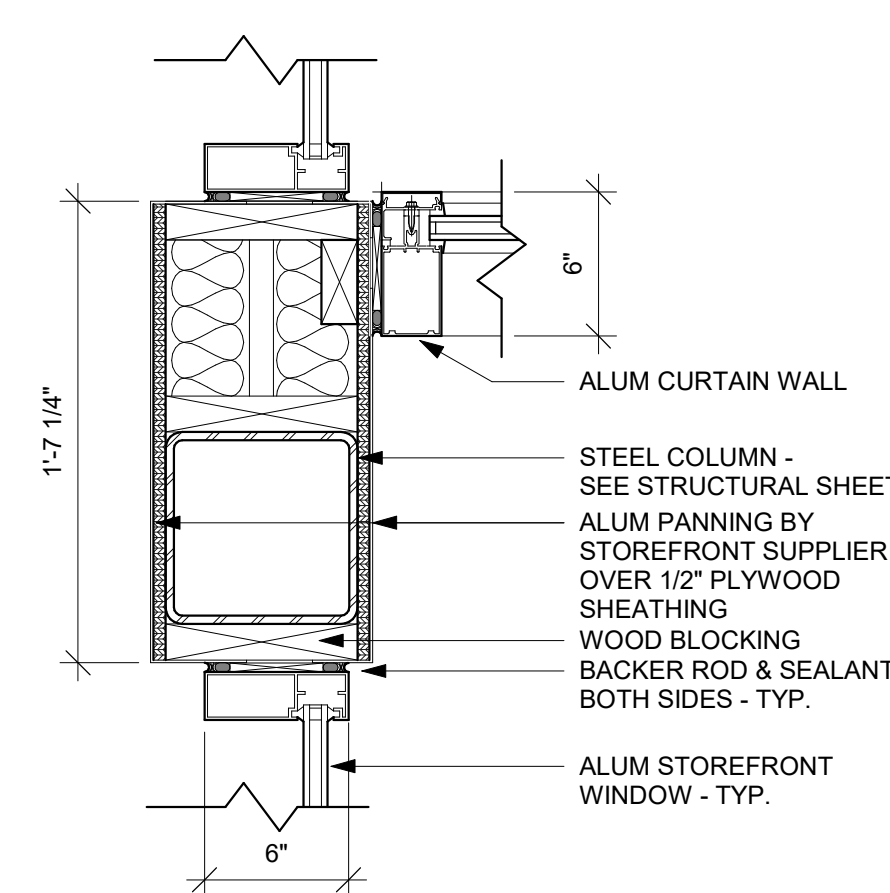
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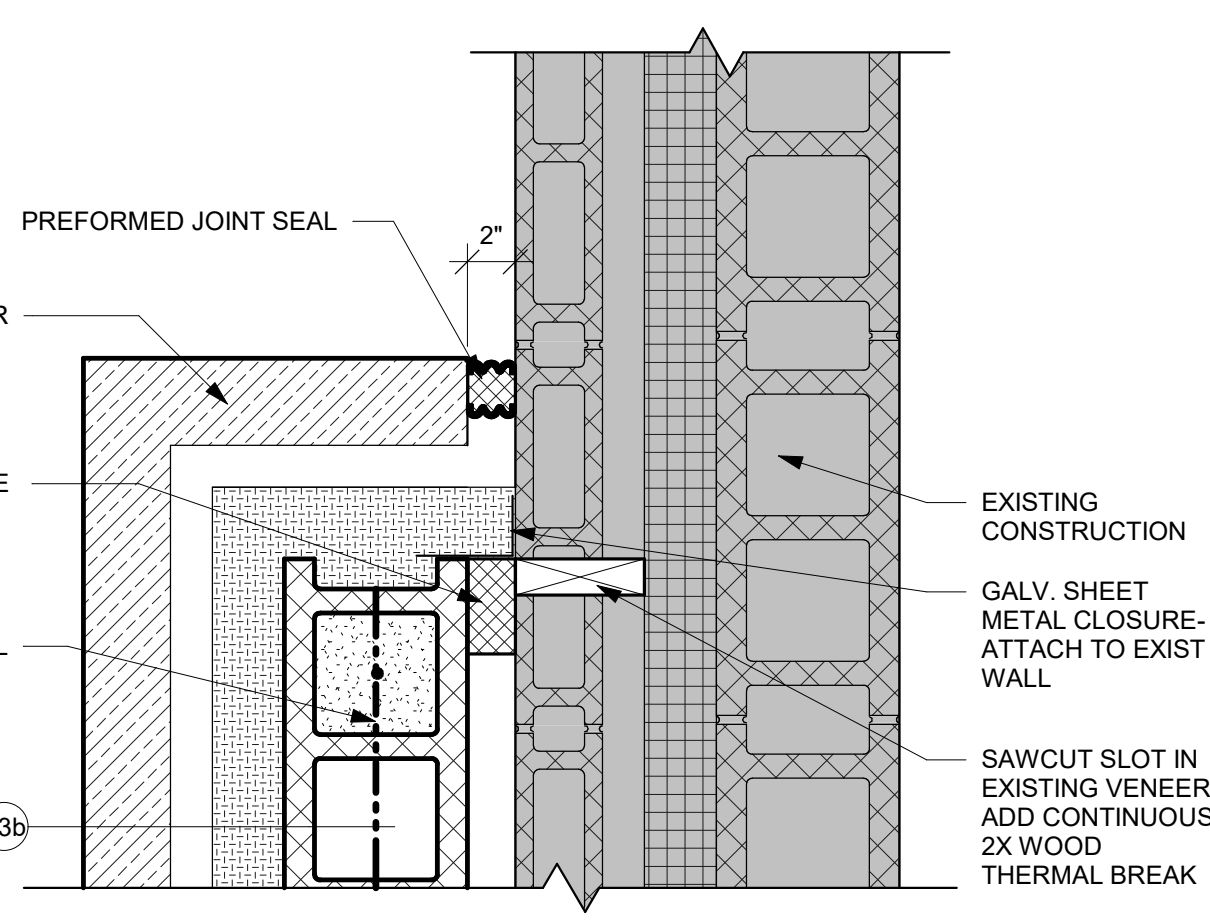
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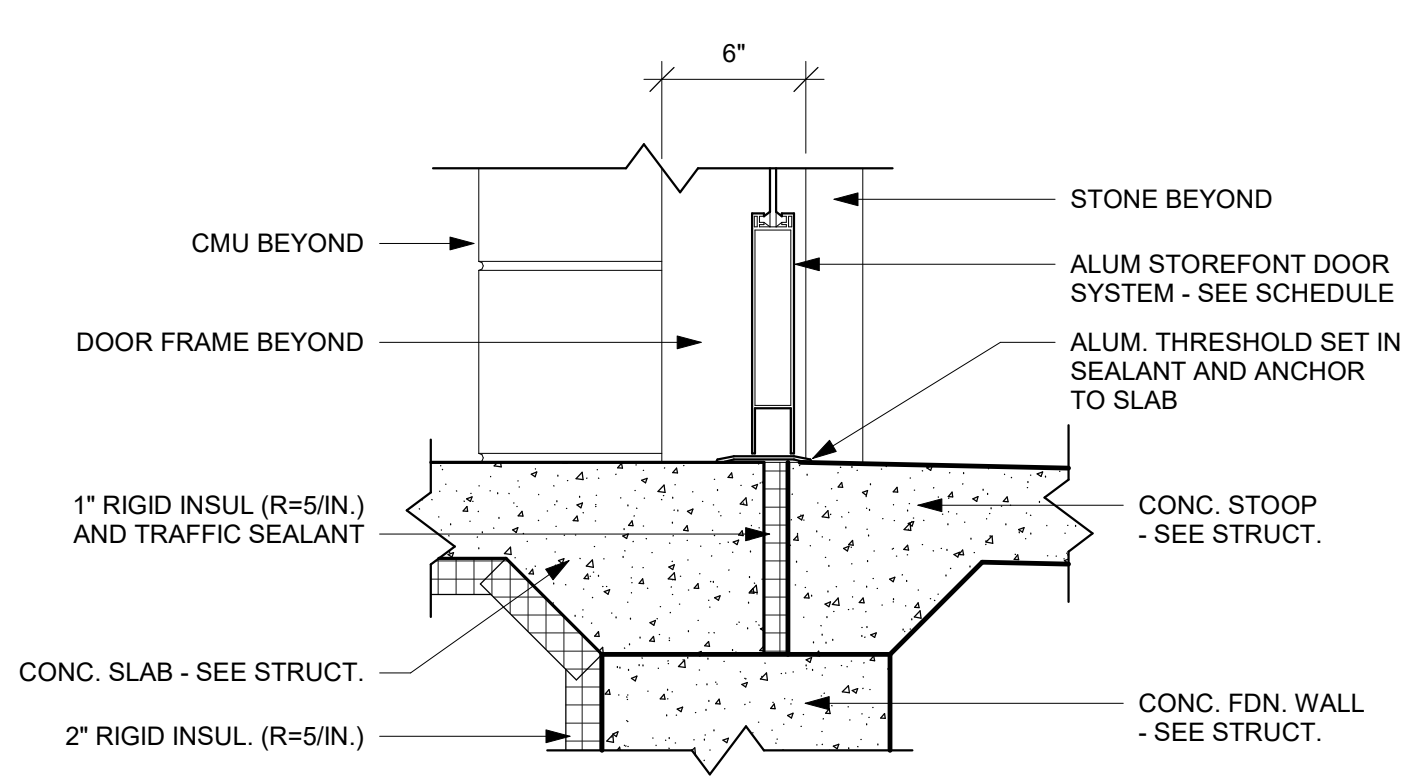
13 WDO SILL DETAIL
1 1/2" = 1'-0"



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



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



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



Consultant:

Project Title: **LA CRESCENT-HOKAH
HIGH SCHOOL/ MIDDLE SCHOOL**
Project Location: **1301 LANCER BOULEVARD
LA CRESCENT, MINNESOTA**
Sheet Title: **DETAILS**

HSR Project Number: **19014-1**

Project Date: **3.5.2020**

Drawn By: **HSR**

Key Plan:

**BID
DOCUMENTS**

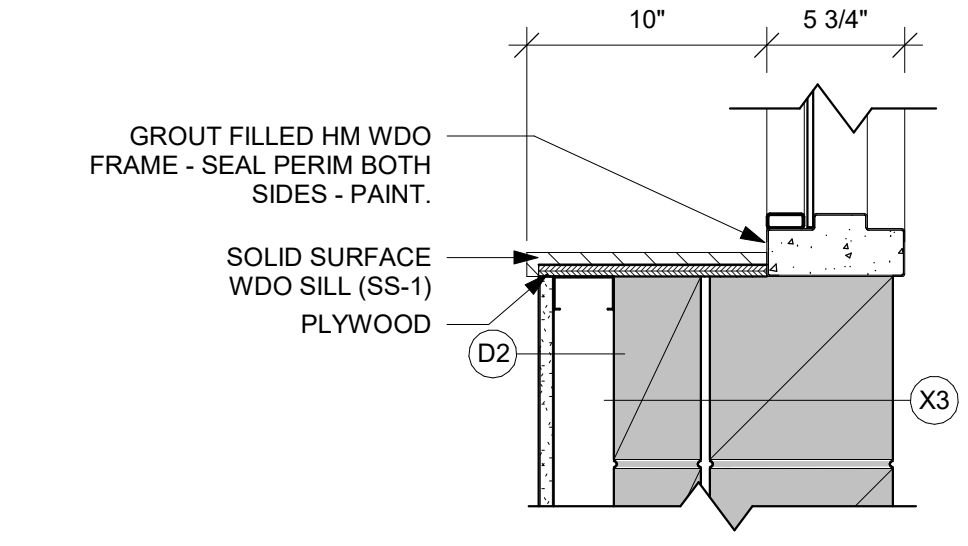
No.	Description	Date
1	ADDENDUM 1	3/16/20

Graphic Scale: **VARIES**

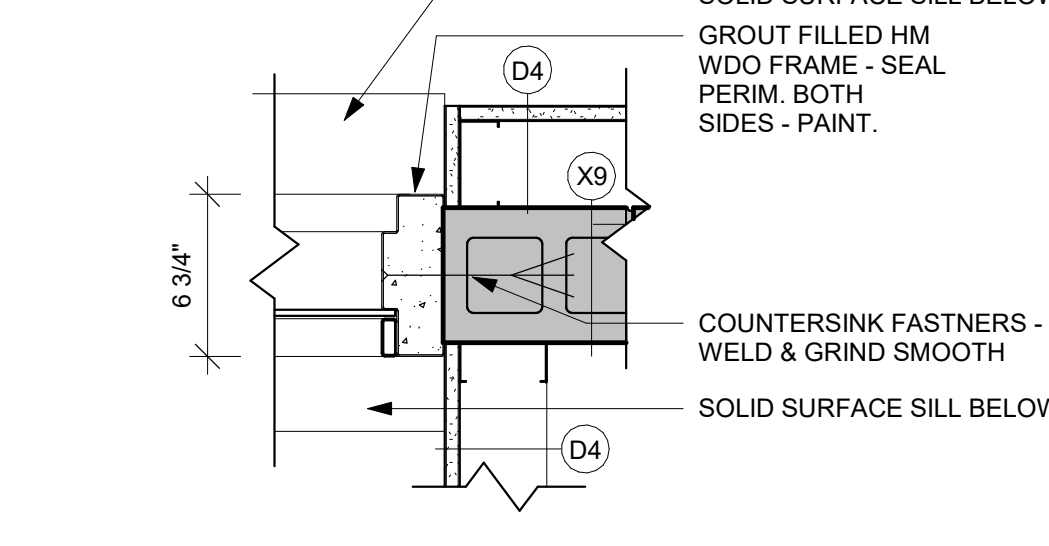
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A503

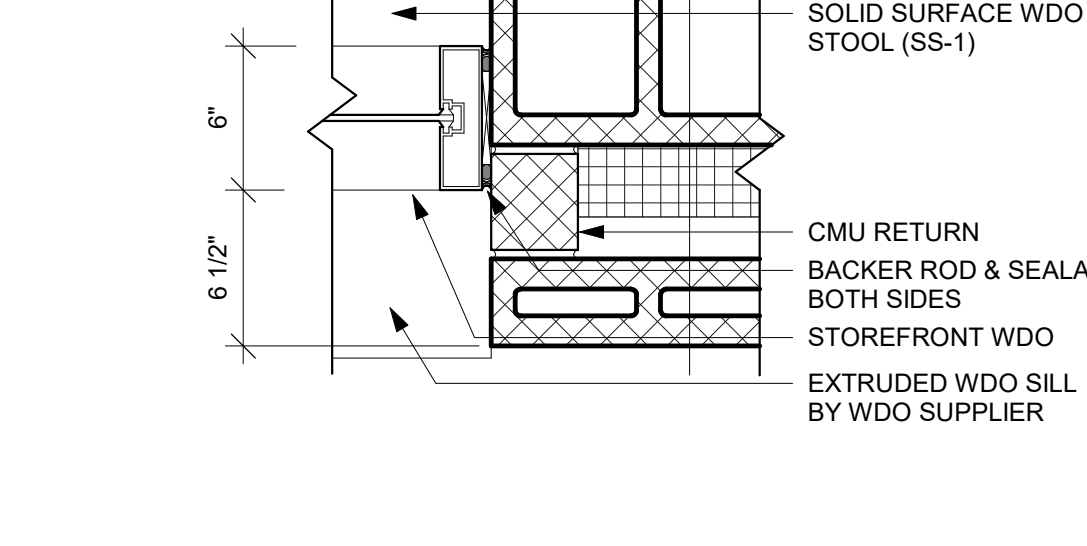
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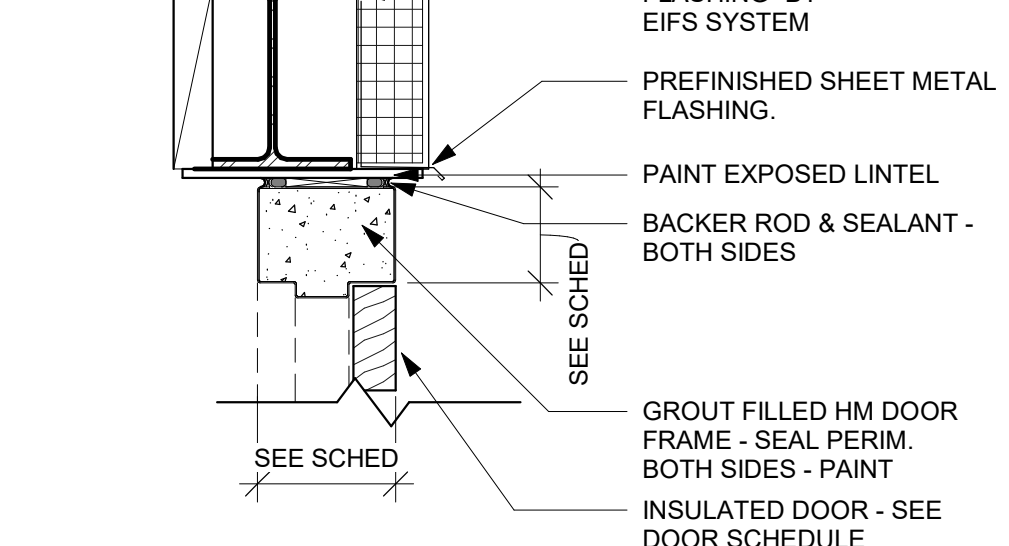
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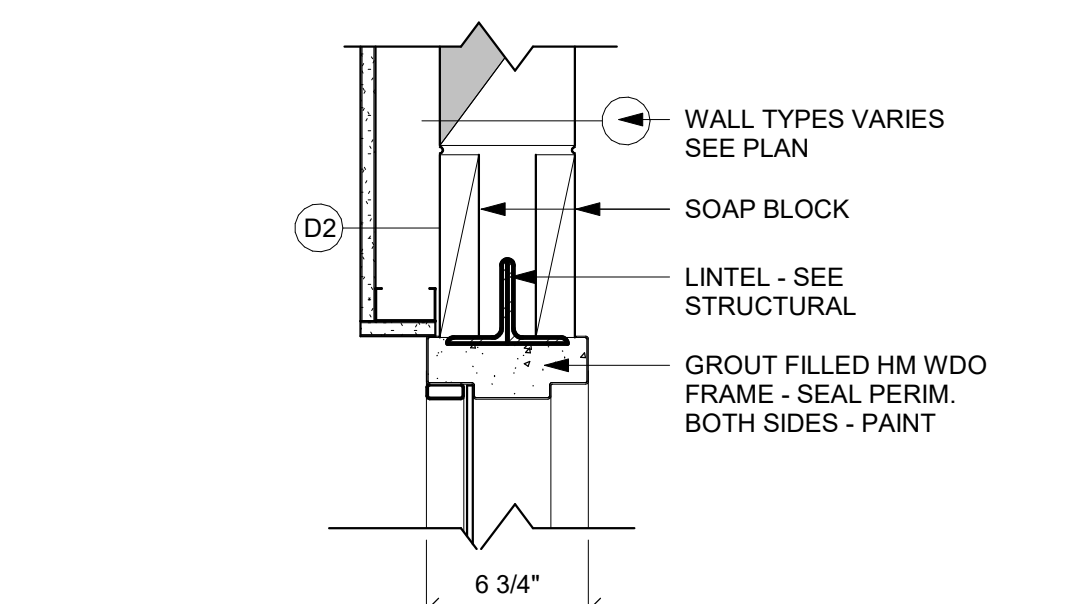
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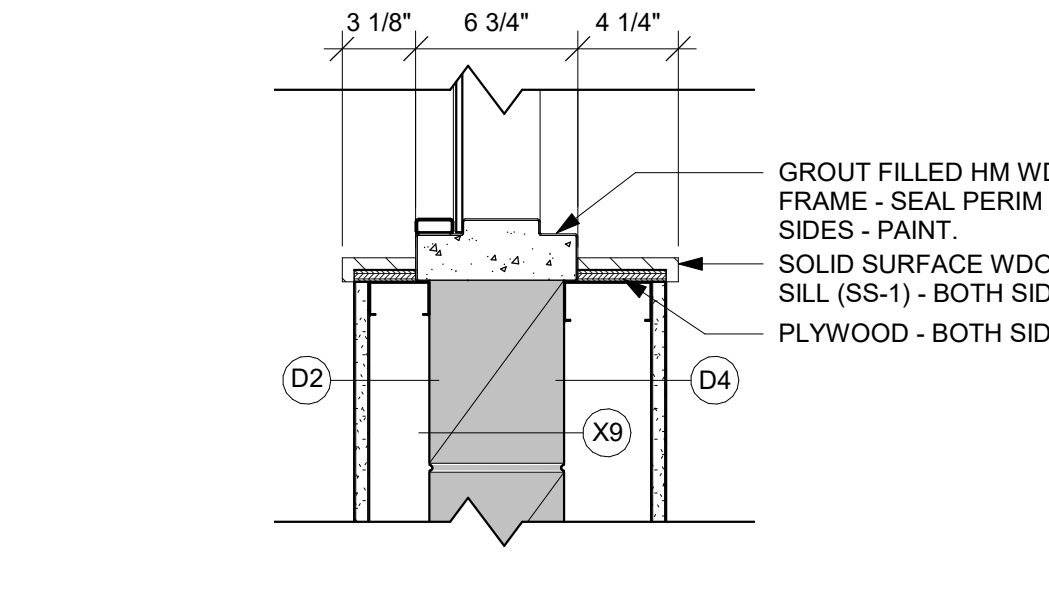
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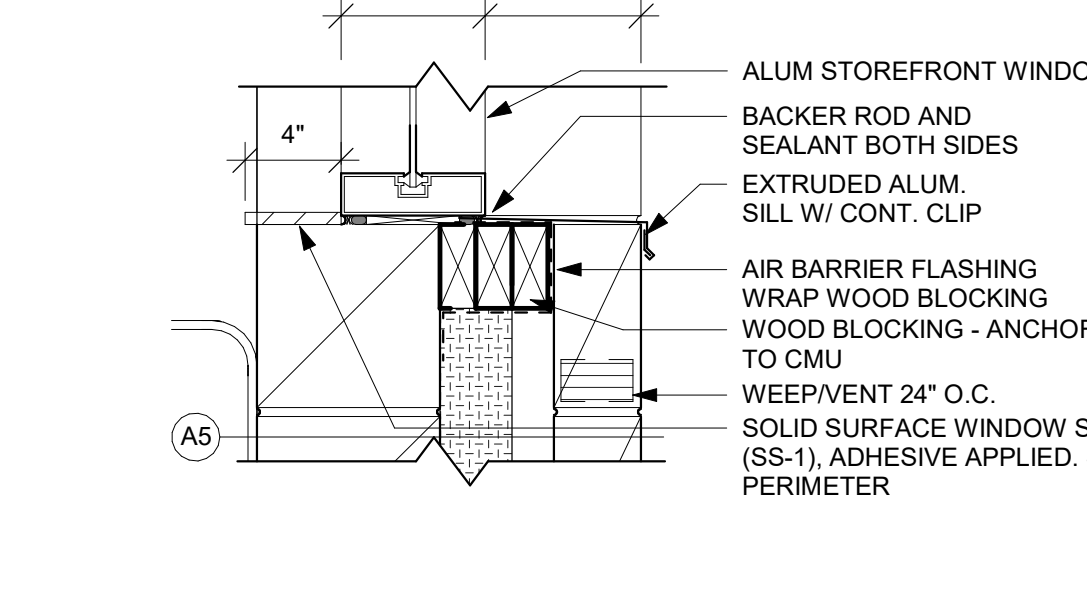
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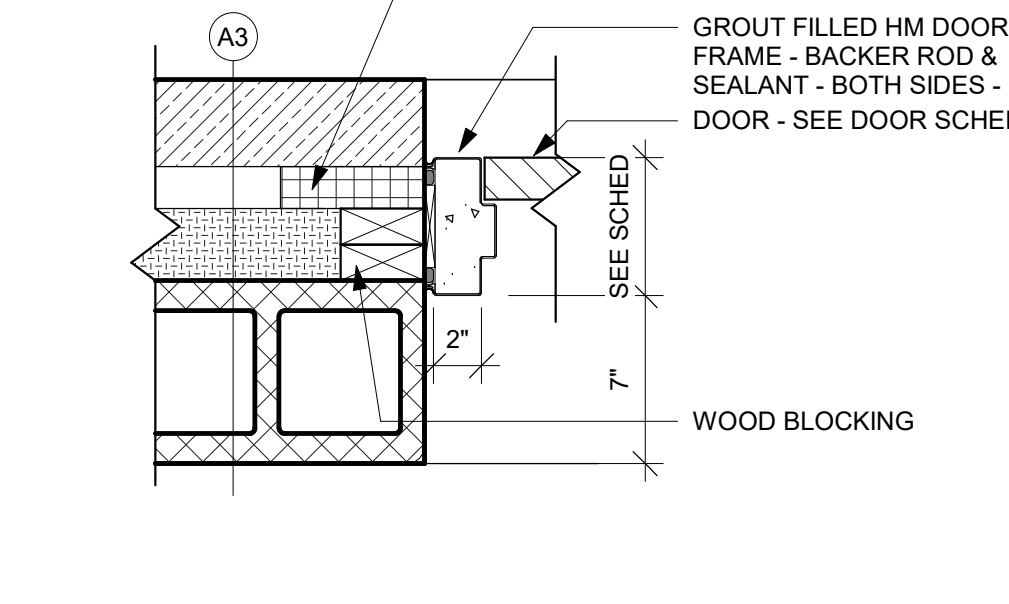
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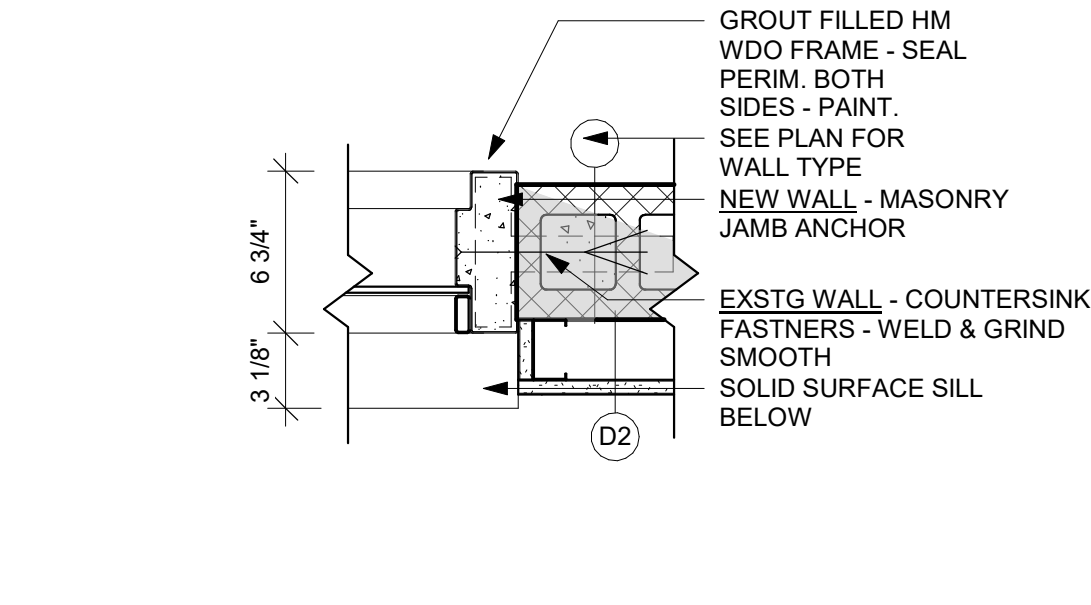
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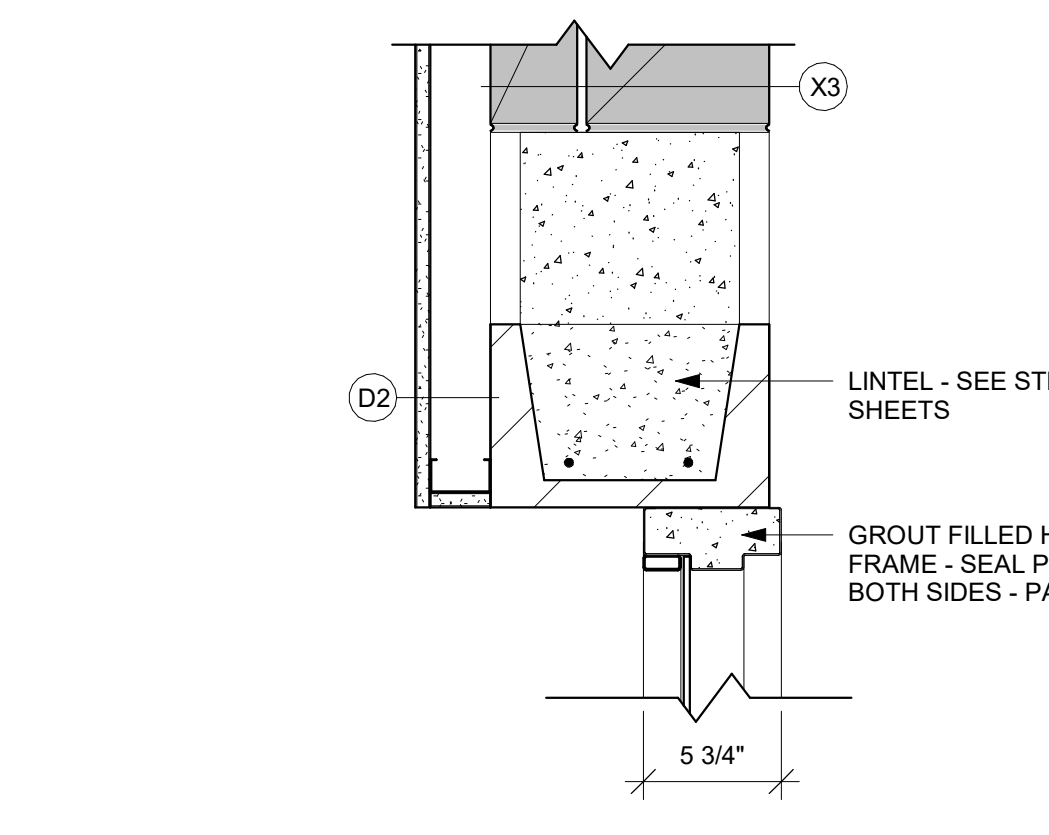
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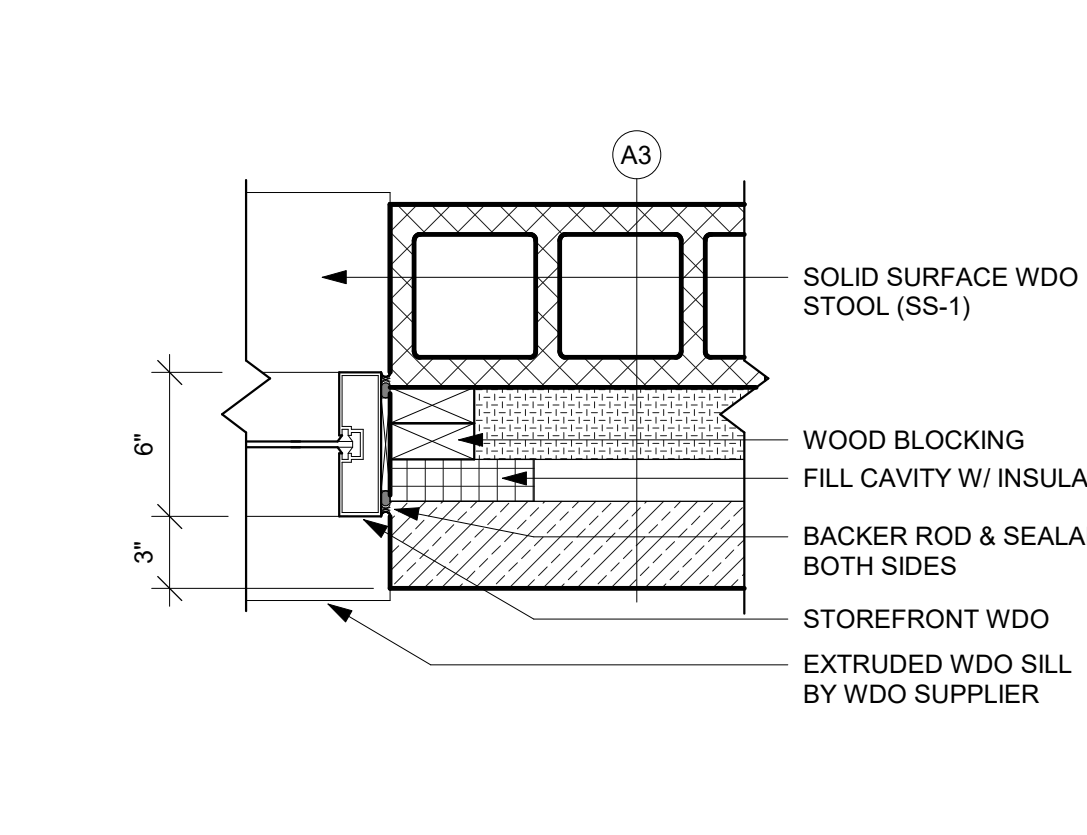
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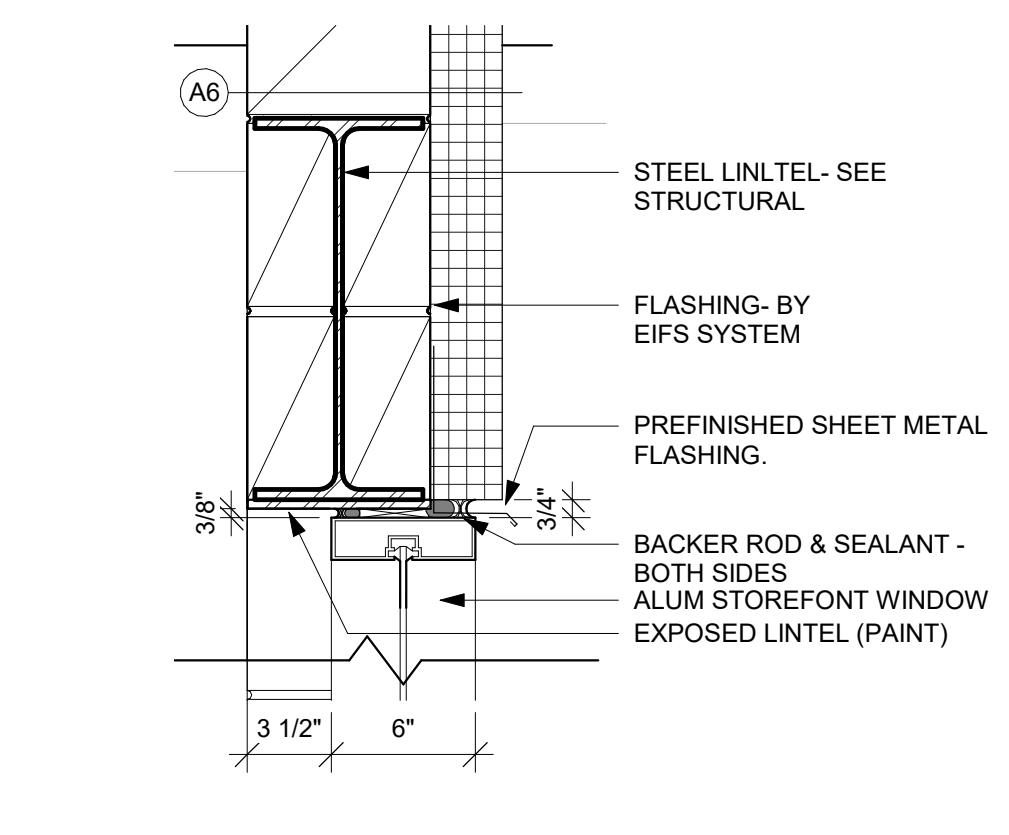
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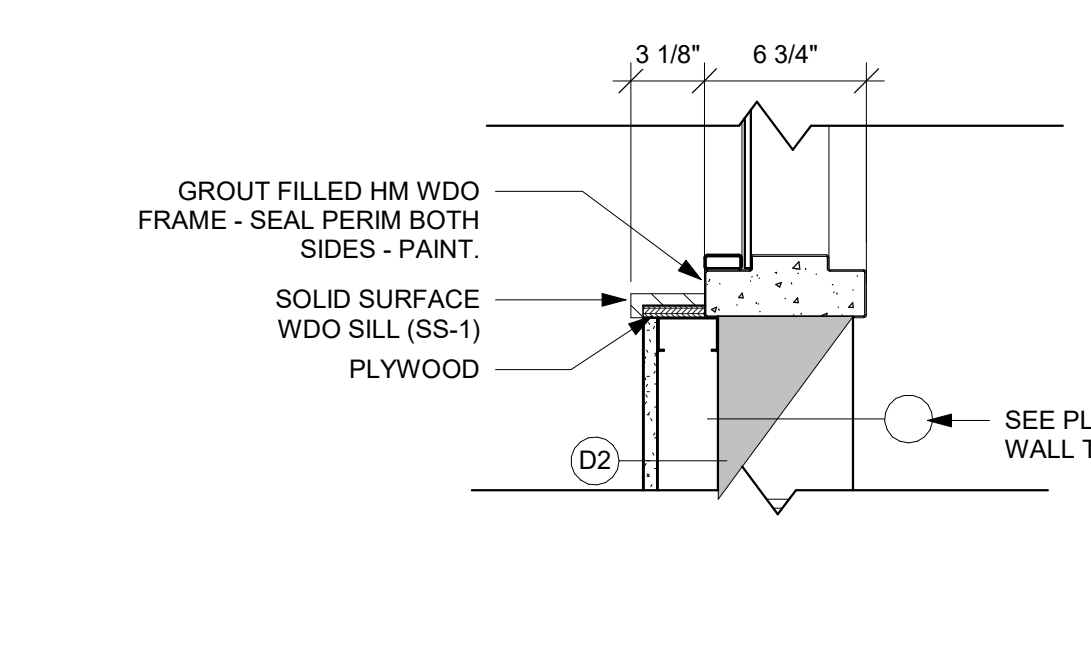
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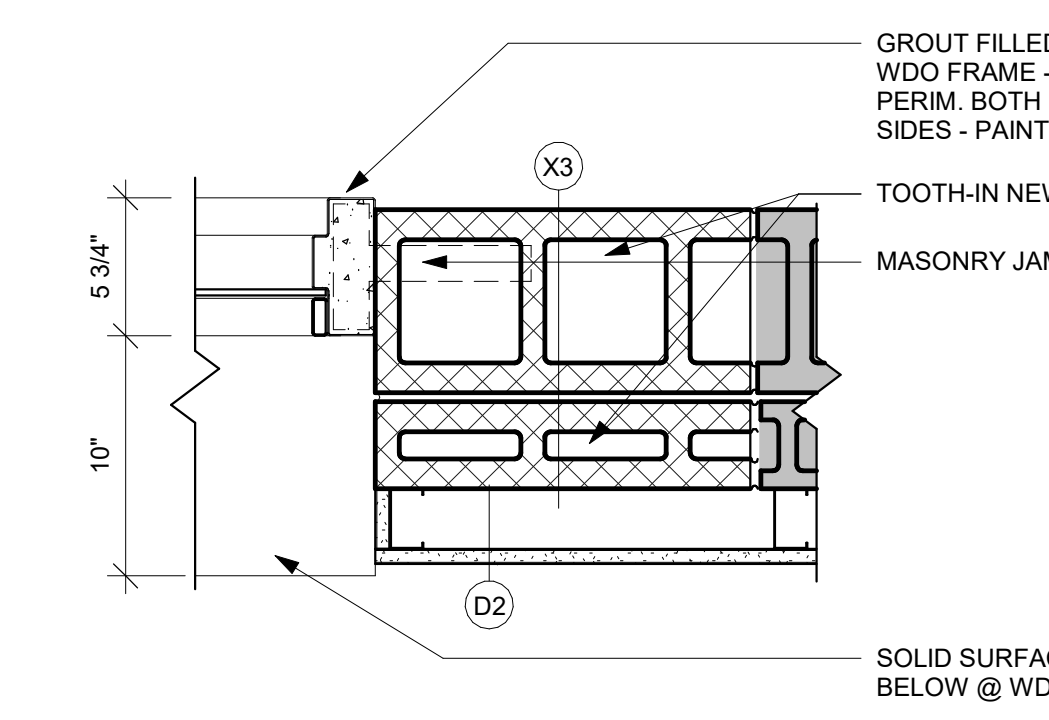
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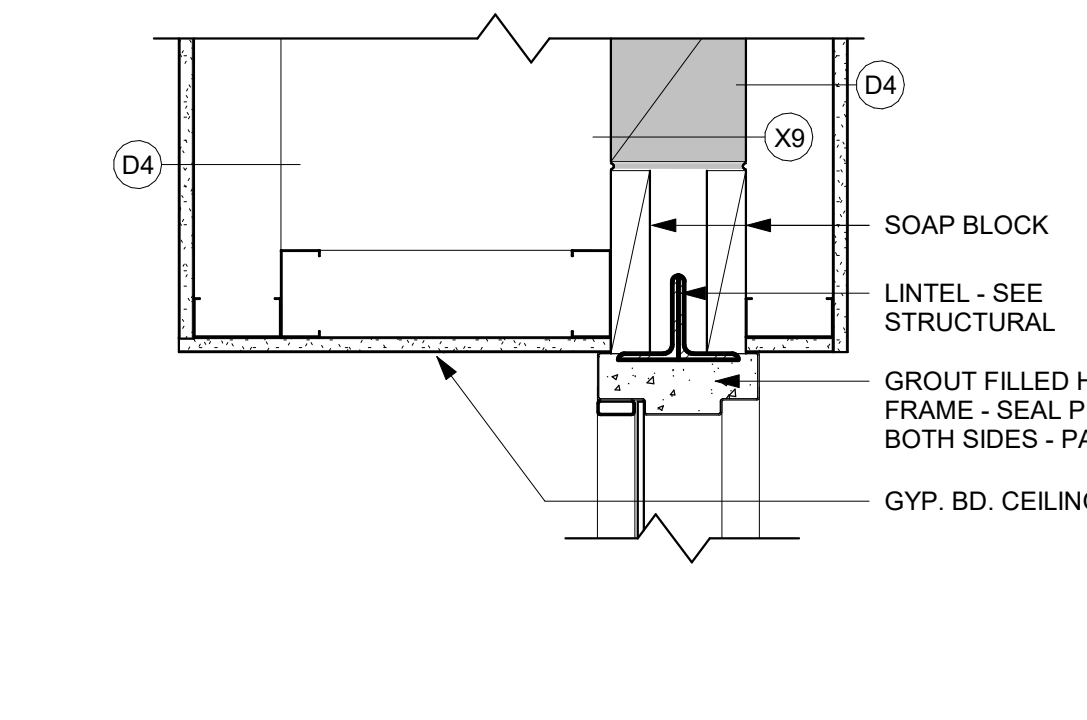
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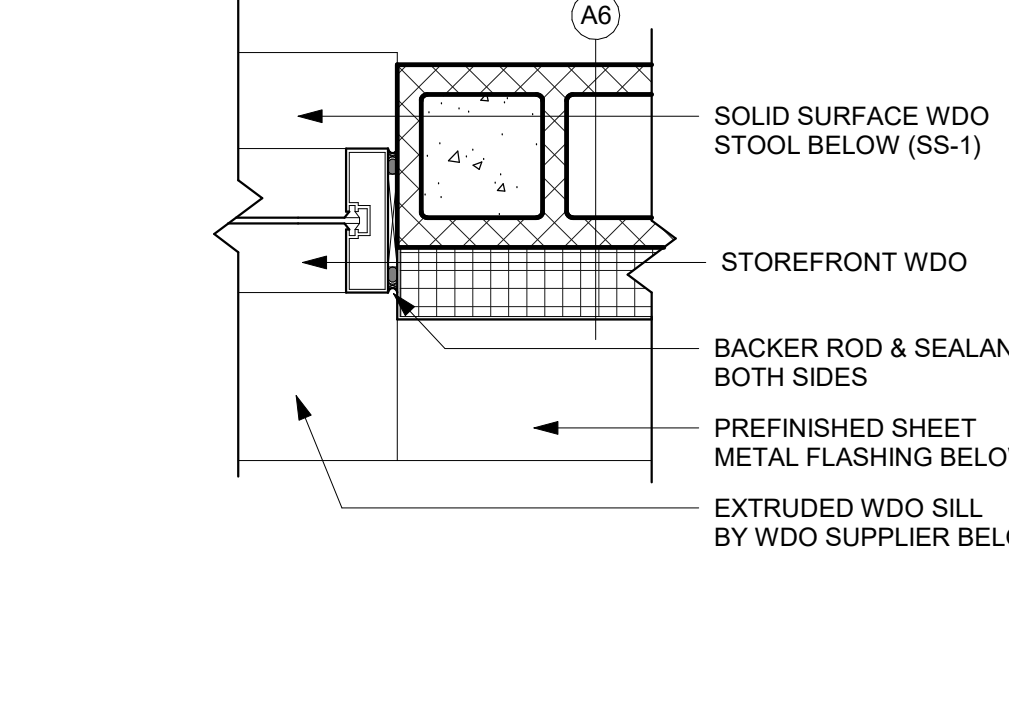
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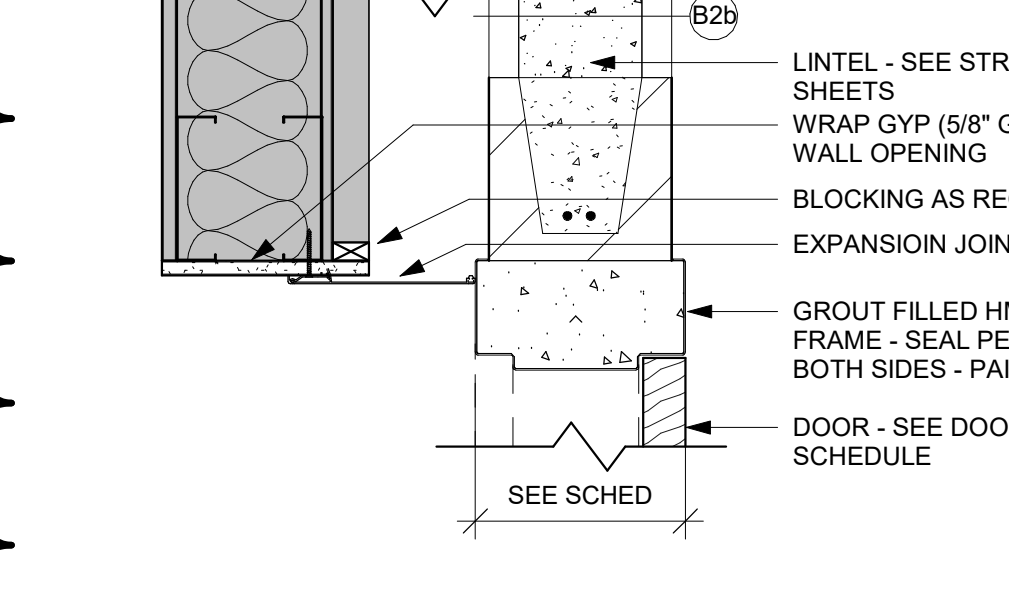
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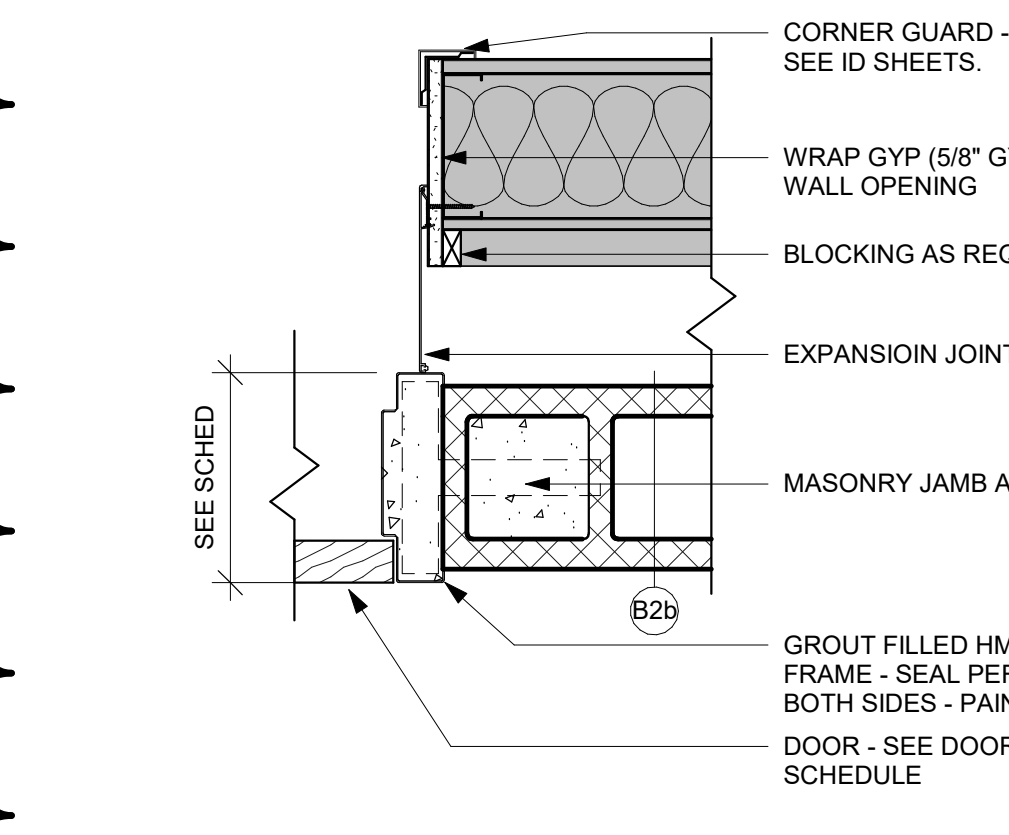
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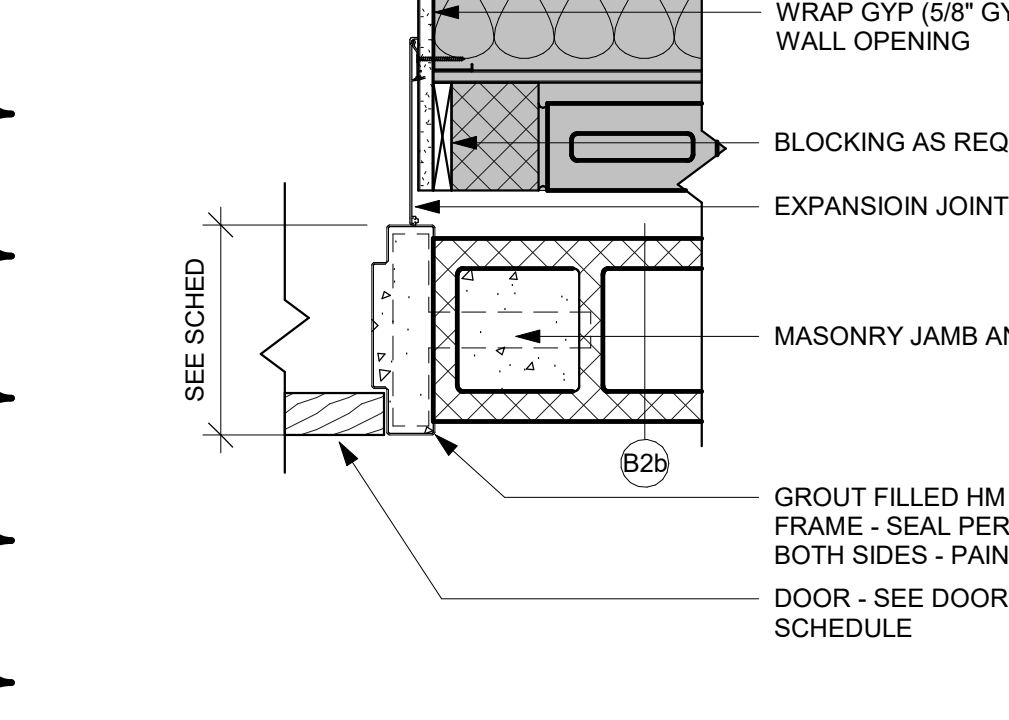
19 DR HEAD DETAIL
1 1/2" = 1'-0"



18 DR JAMB DETAIL
1 1/2" = 1'-0"



17 DR JAMB DETAIL
1 1/2" = 1'-0"





Consultant:

Project Title: **LA CRESCENT-HOKAH
HIGH SCHOOL/ MIDDLE SCHOOL**
Project Location: 1301 LANCER BOULEVARD
LA CRESCENT, MINNESOTA
Sheet Title: **DETAILS**

HSR Project Number: **19014-1**

Project Date: **3.5.2020**

Drawn By: **HSR**

Key Plan:

**BID
DOCUMENTS**

Revisions:

No.	Description	Date
1	ADDENDUM 1	3/16/20

Graphic Scale: **VARIES**

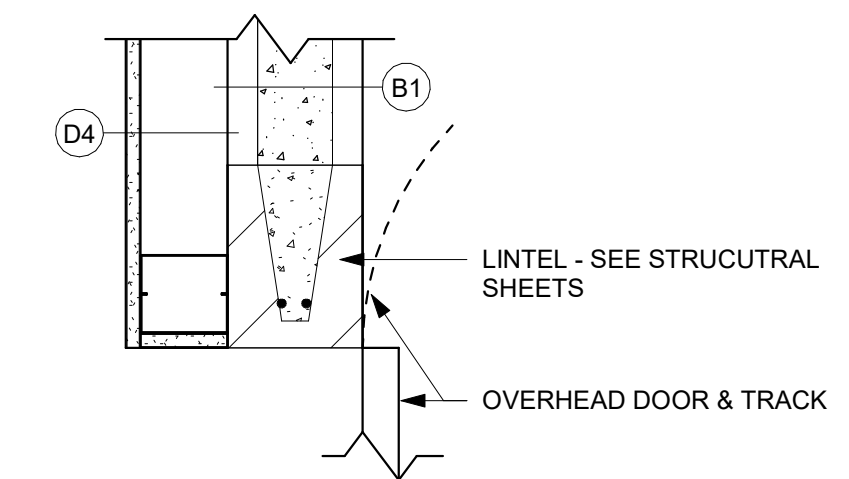
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A505

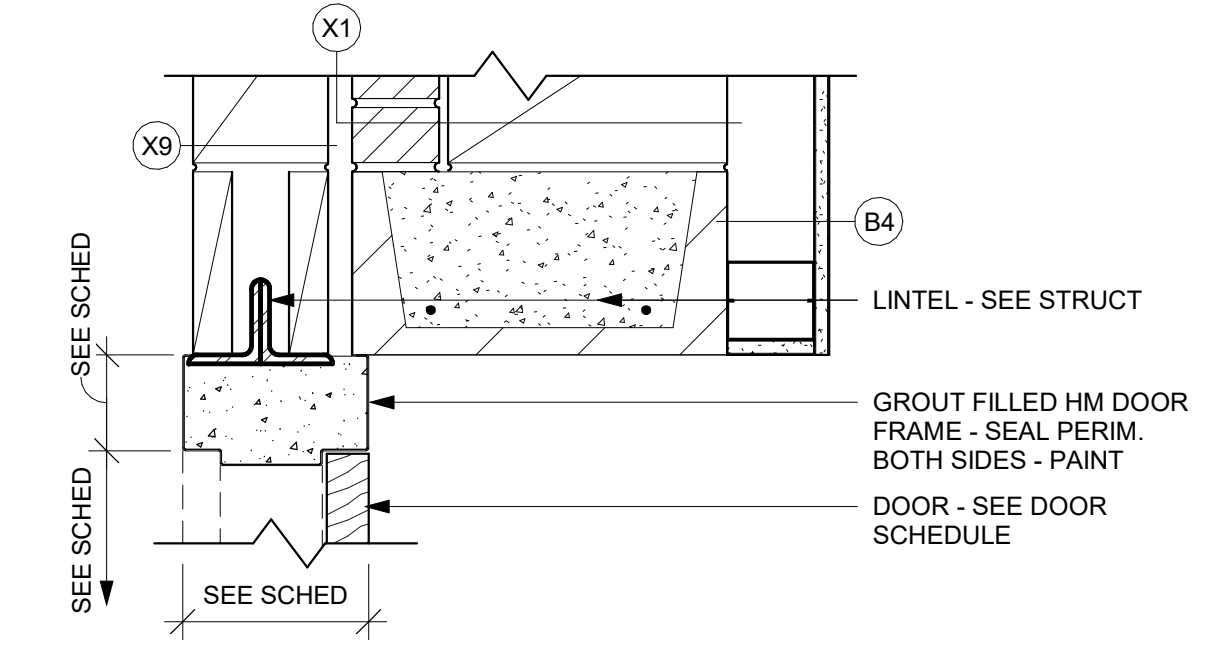


NEW SHEET
ADDED

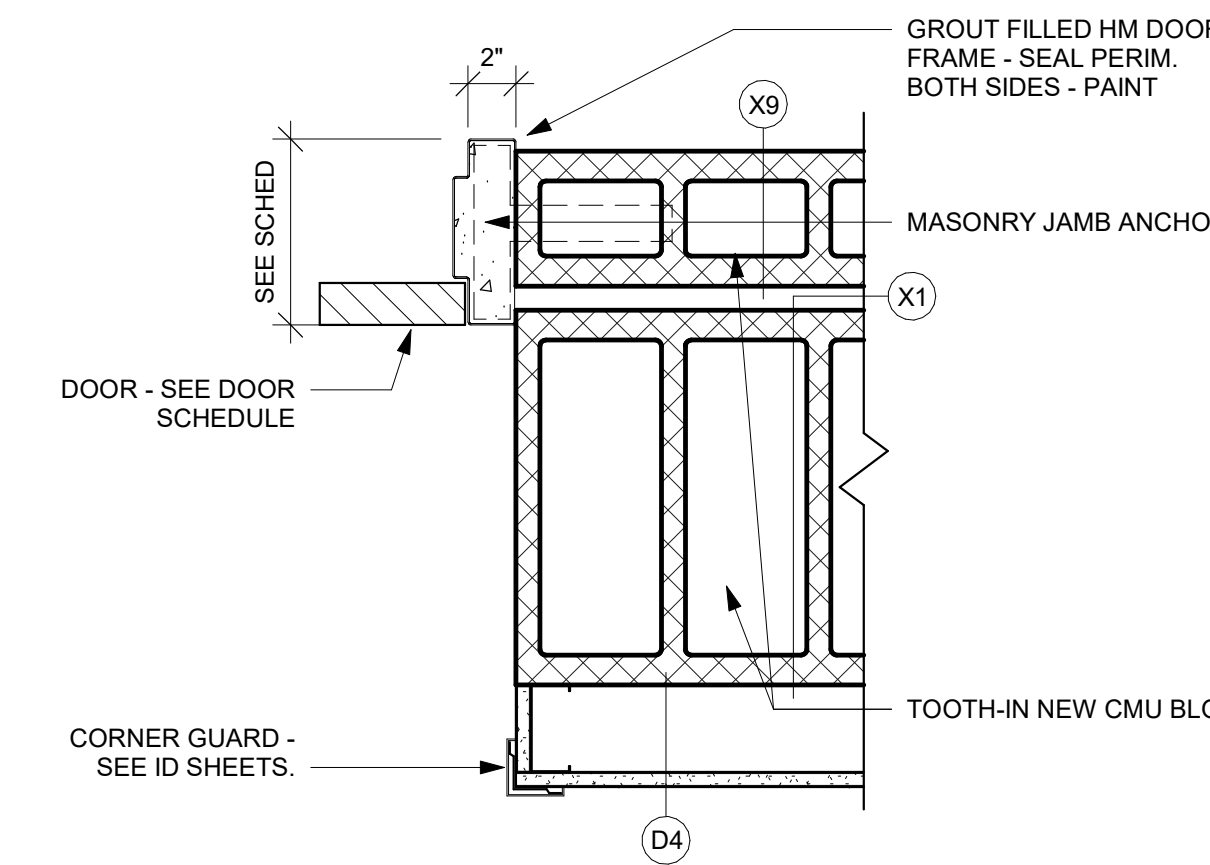
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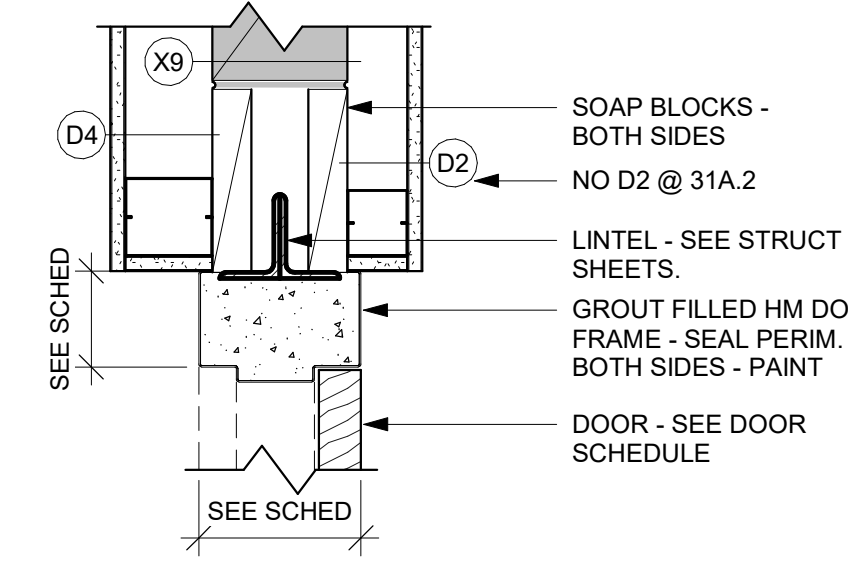
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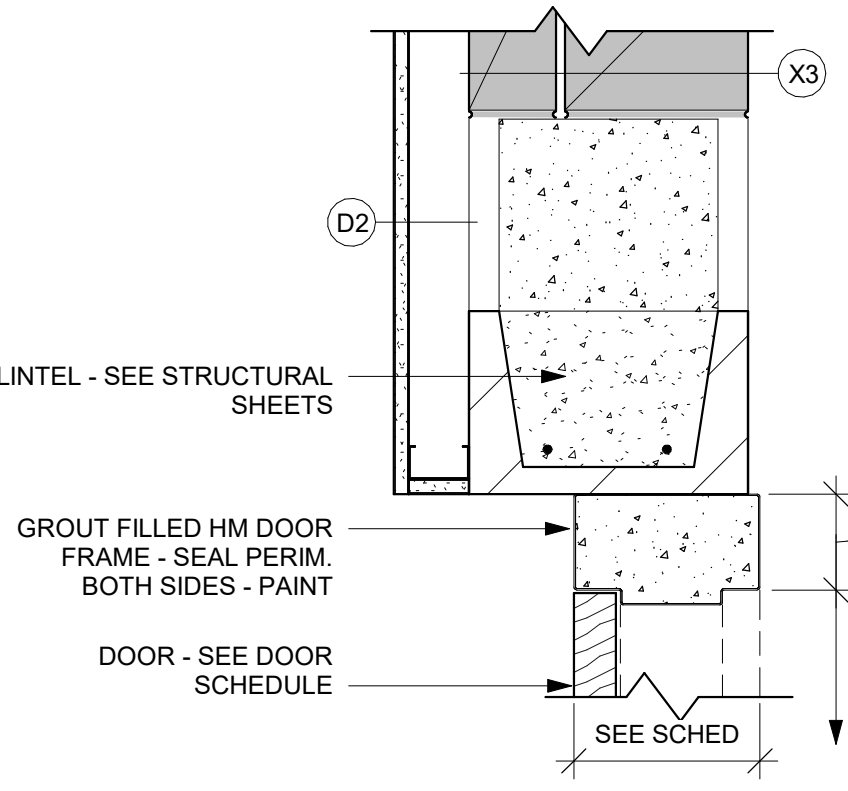
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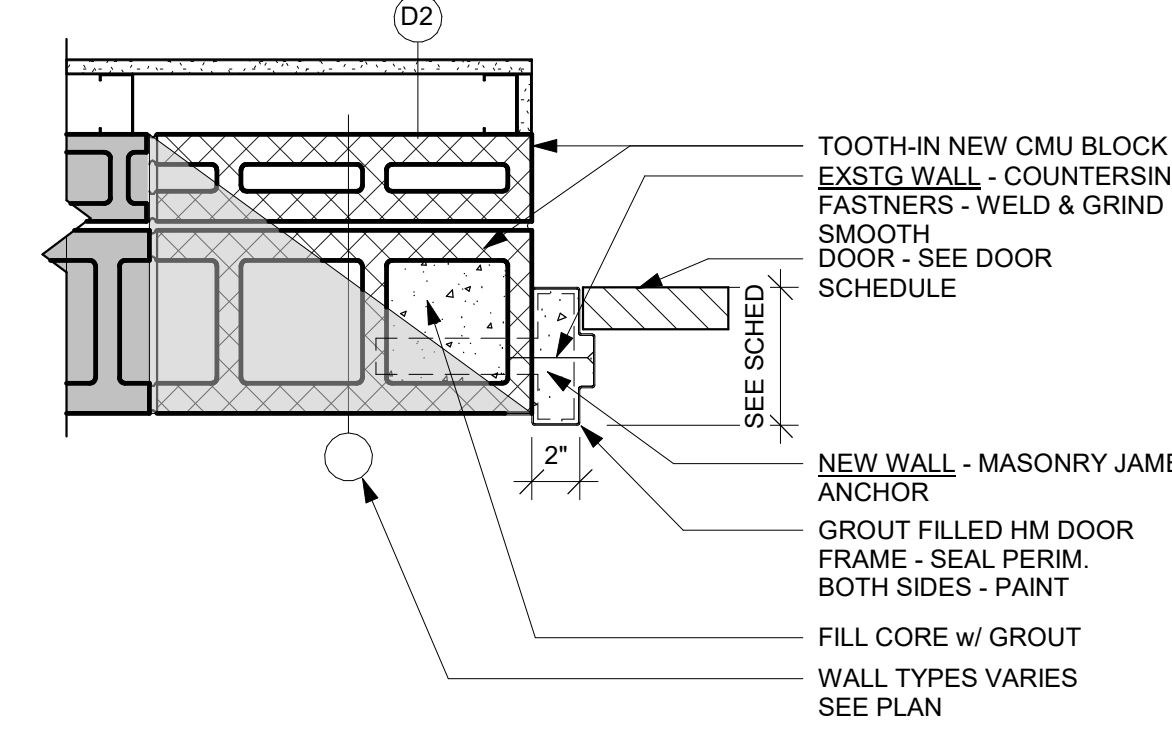
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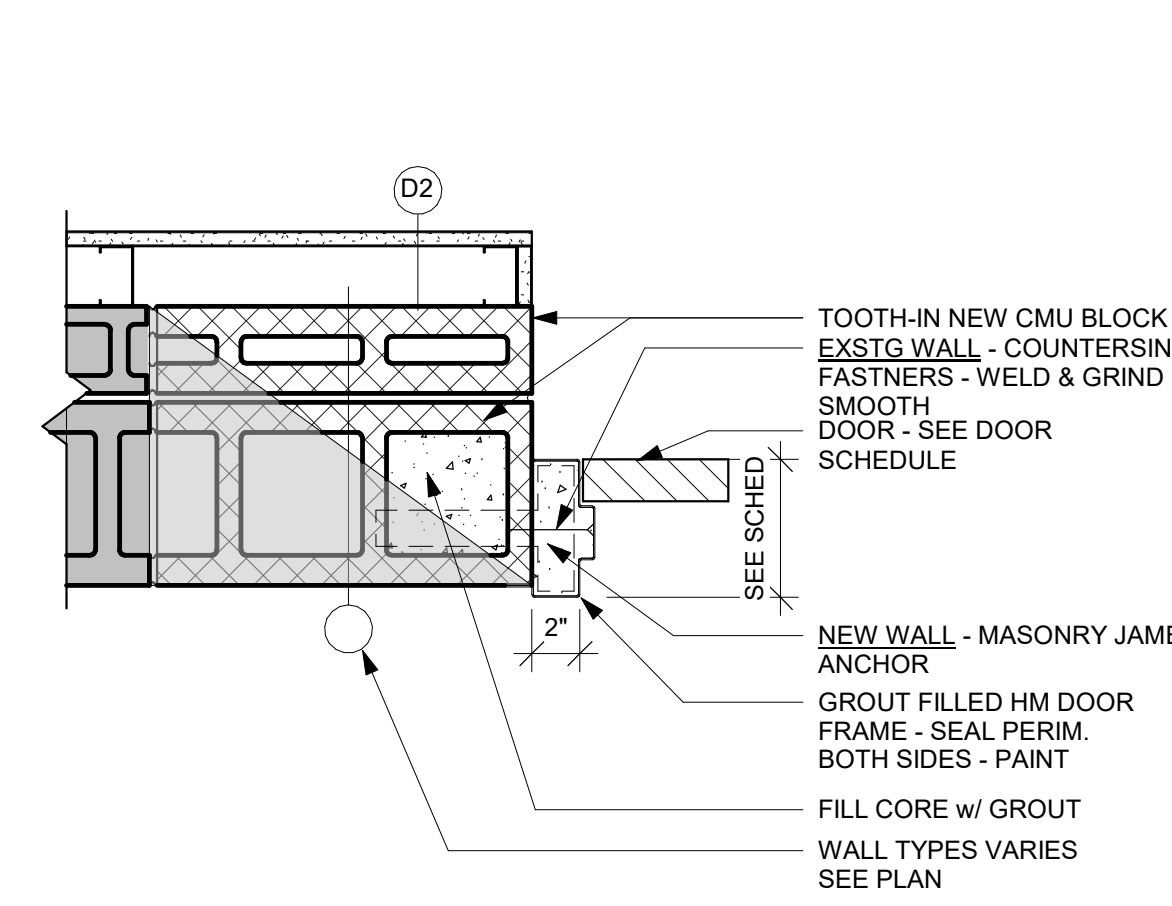
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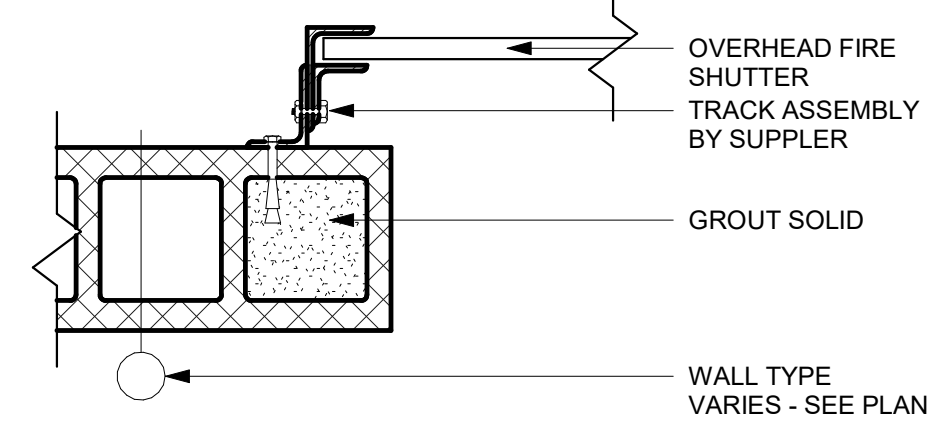
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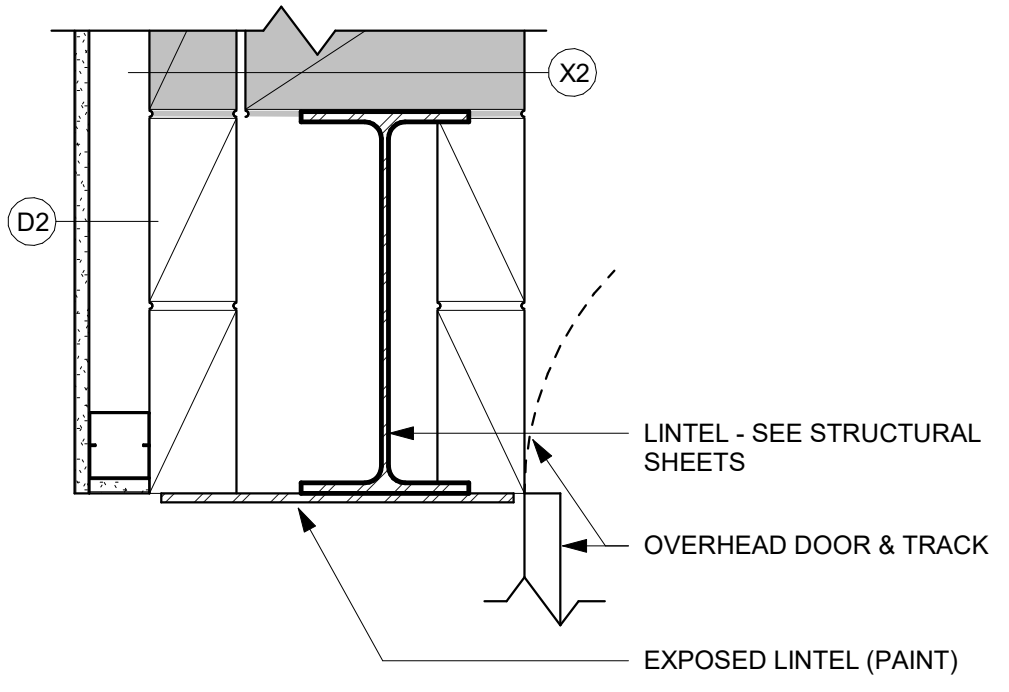
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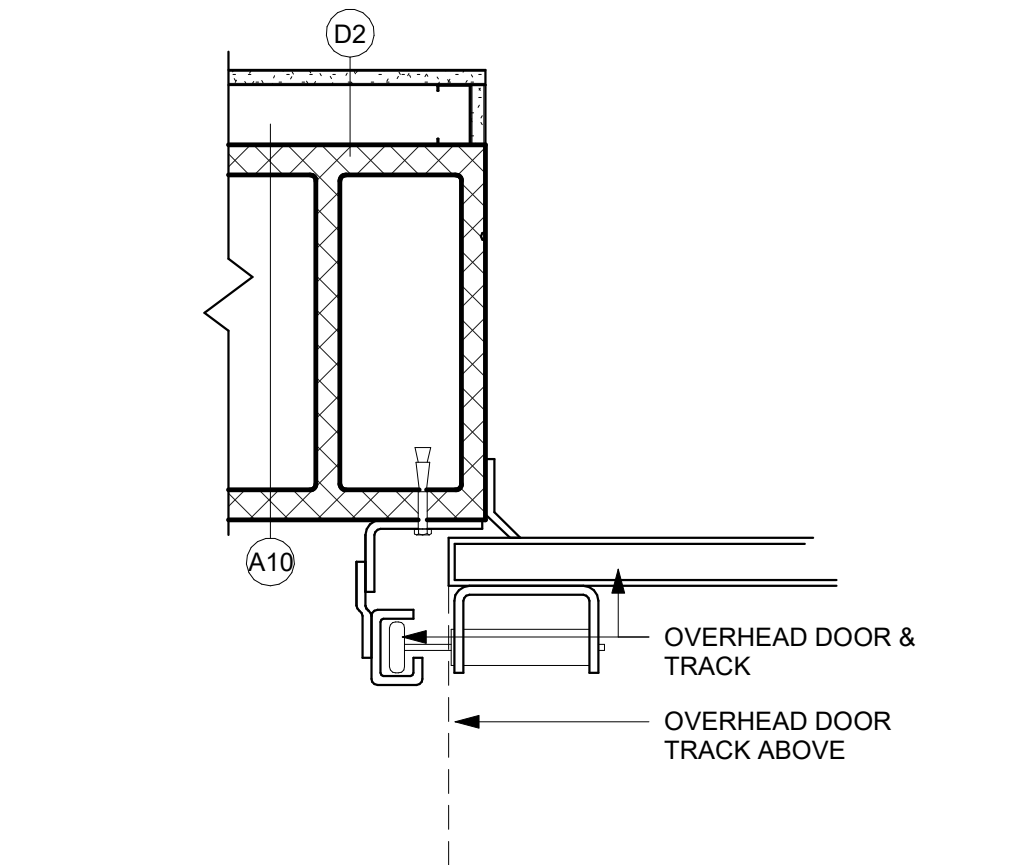
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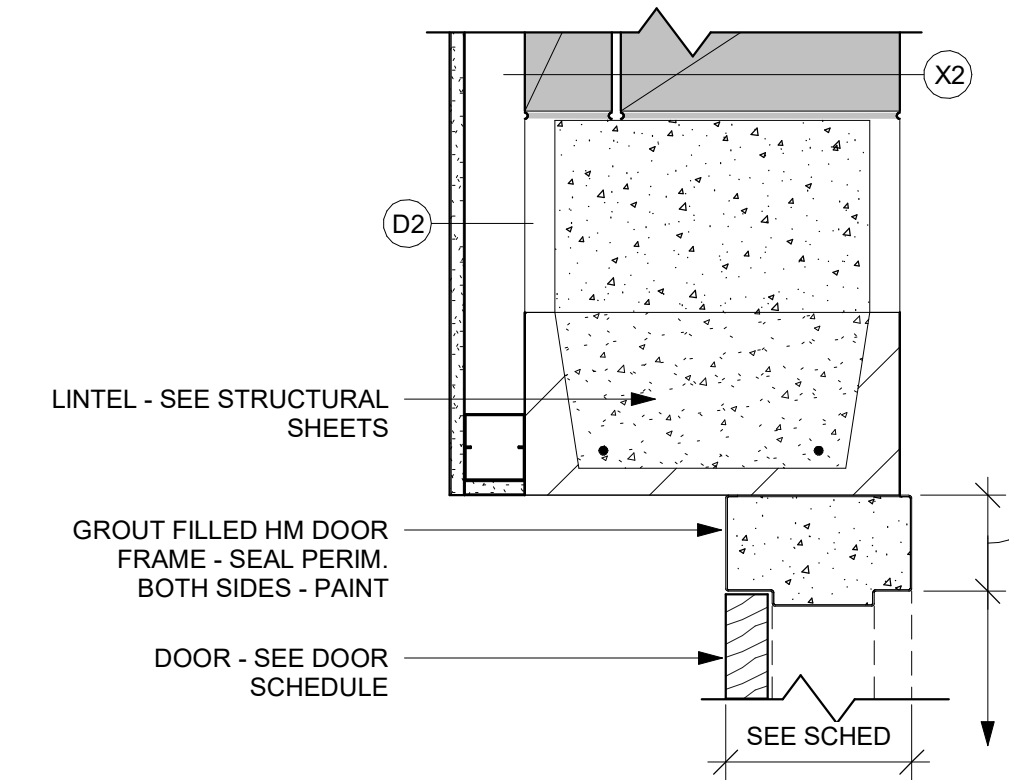
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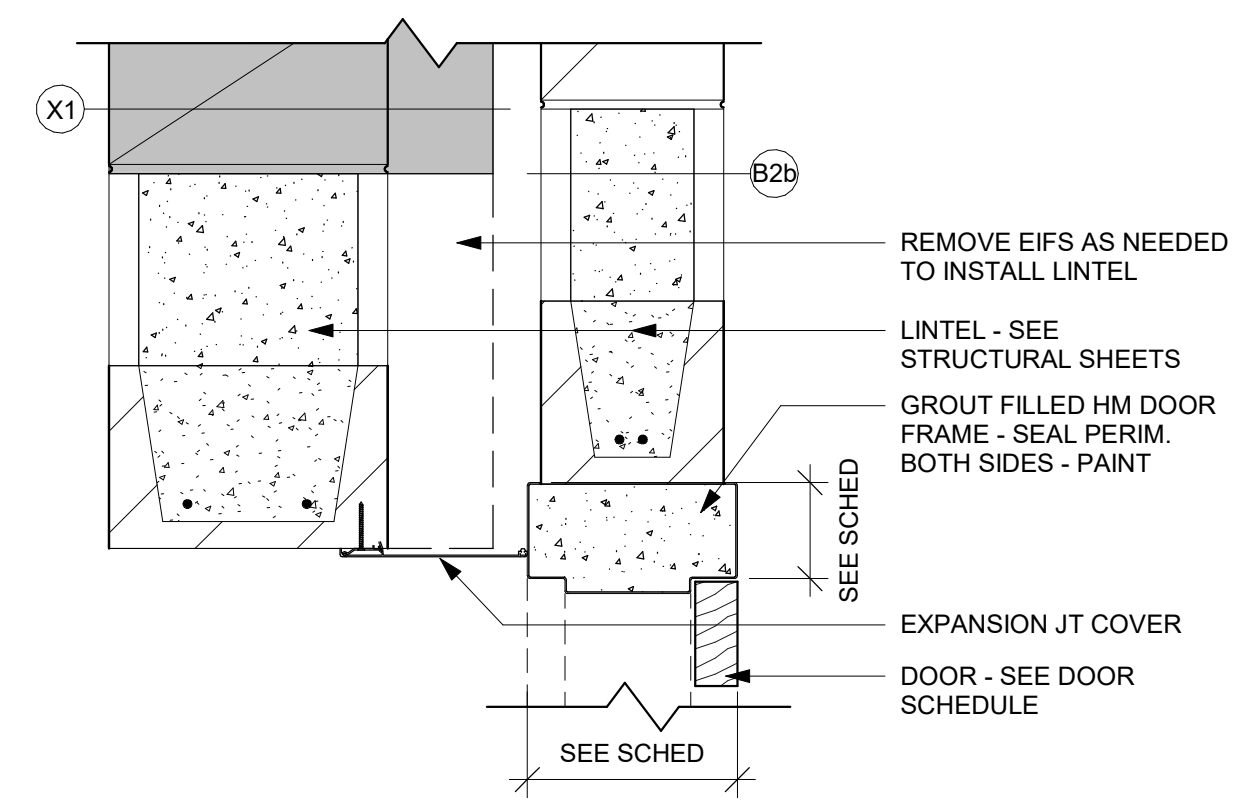
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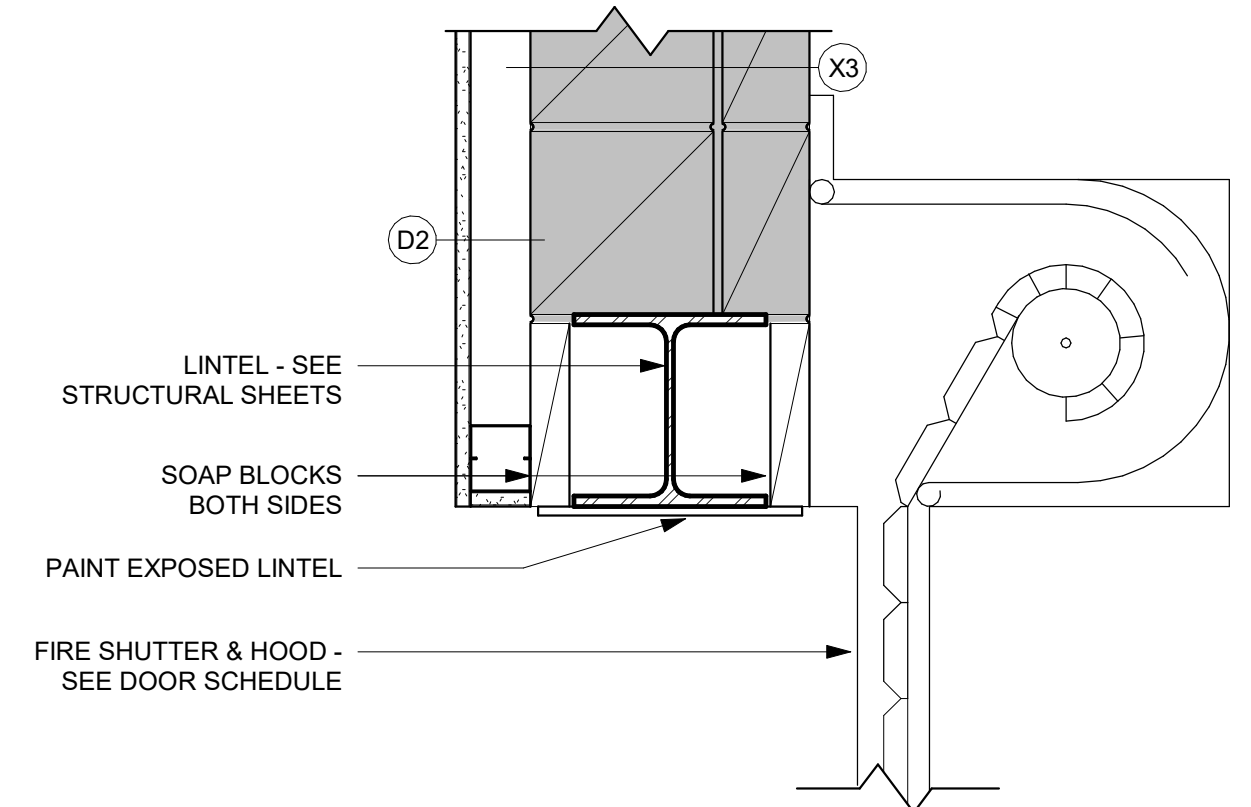
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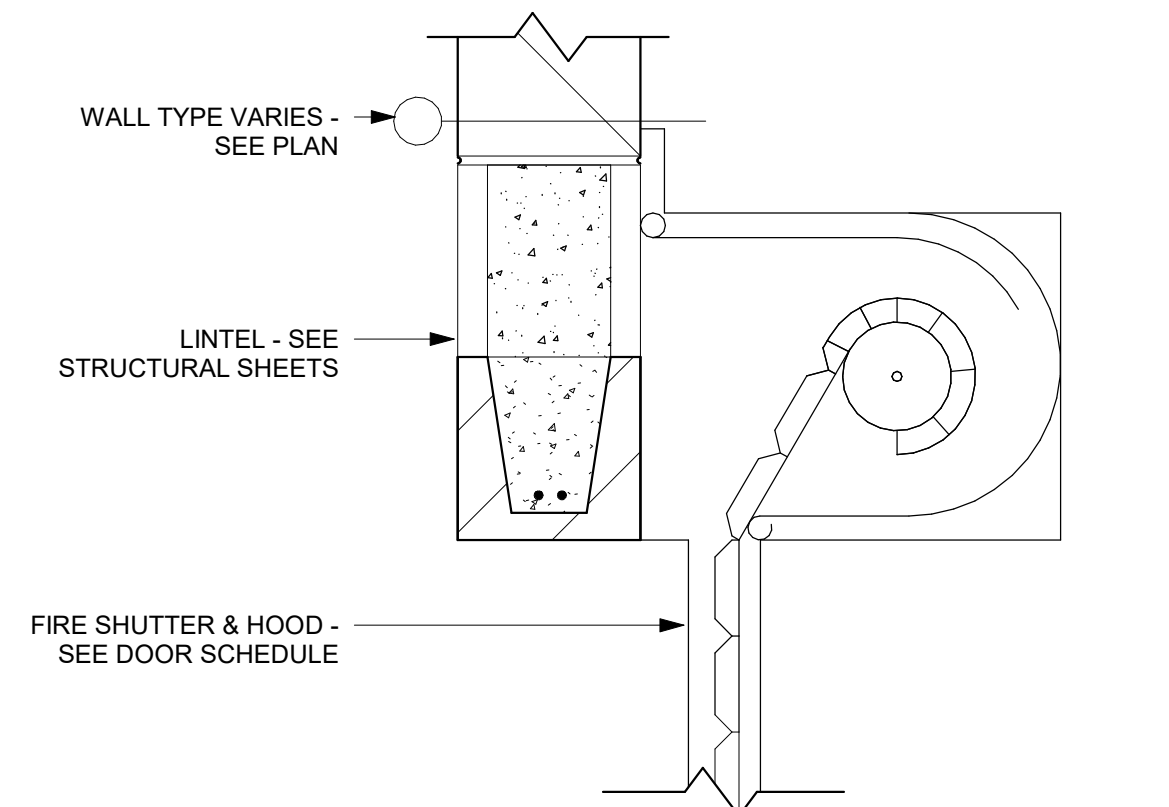
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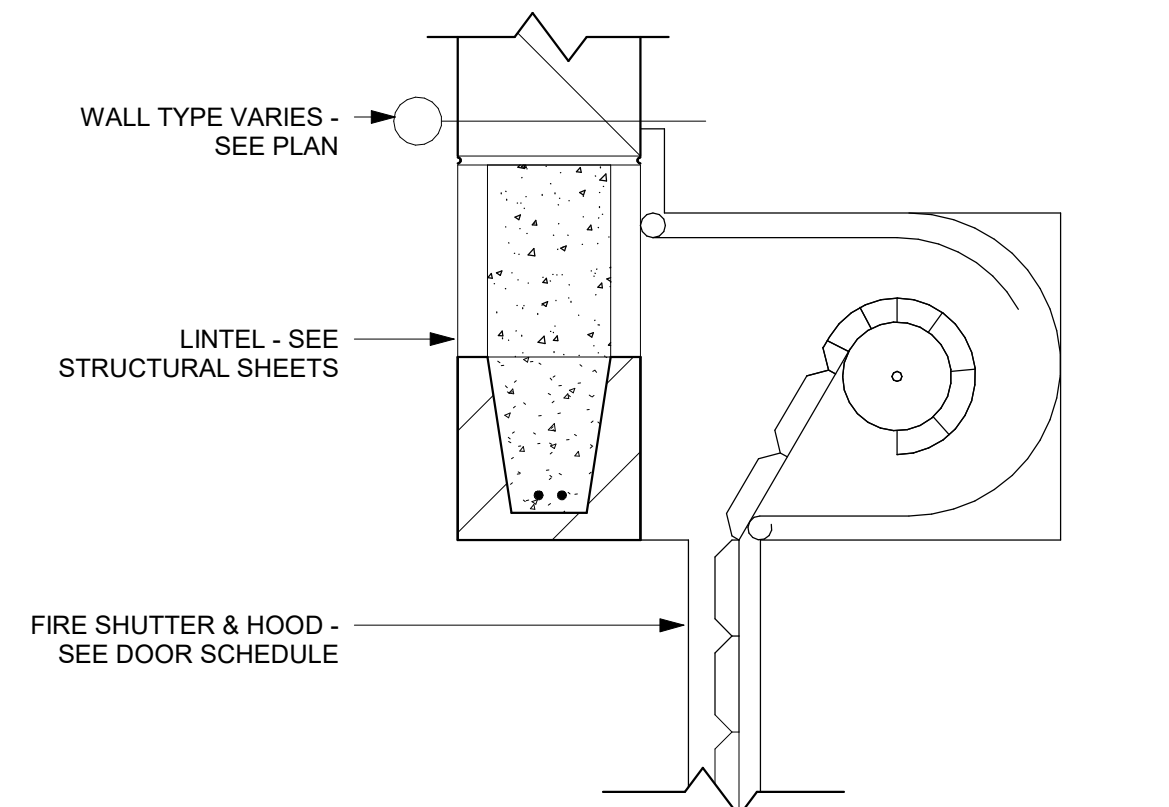
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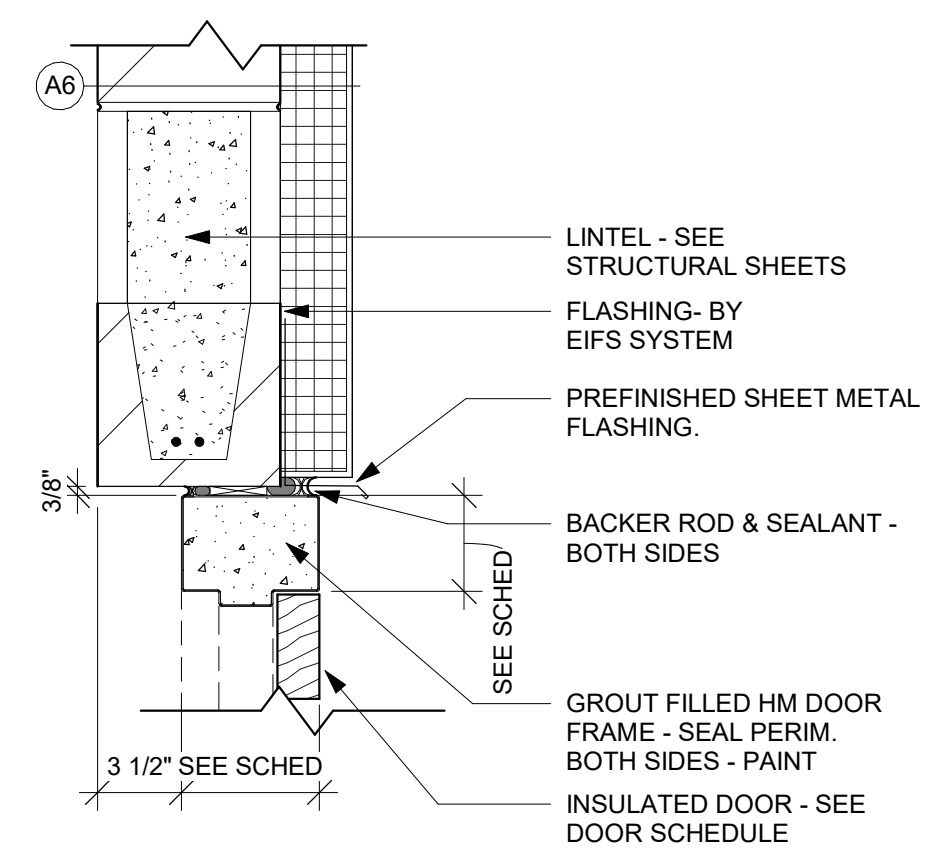
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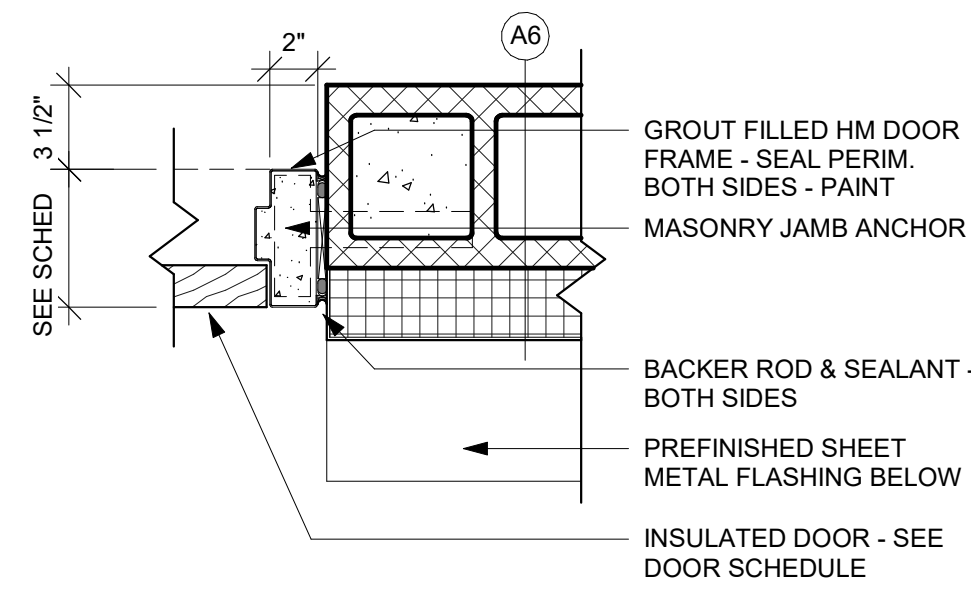
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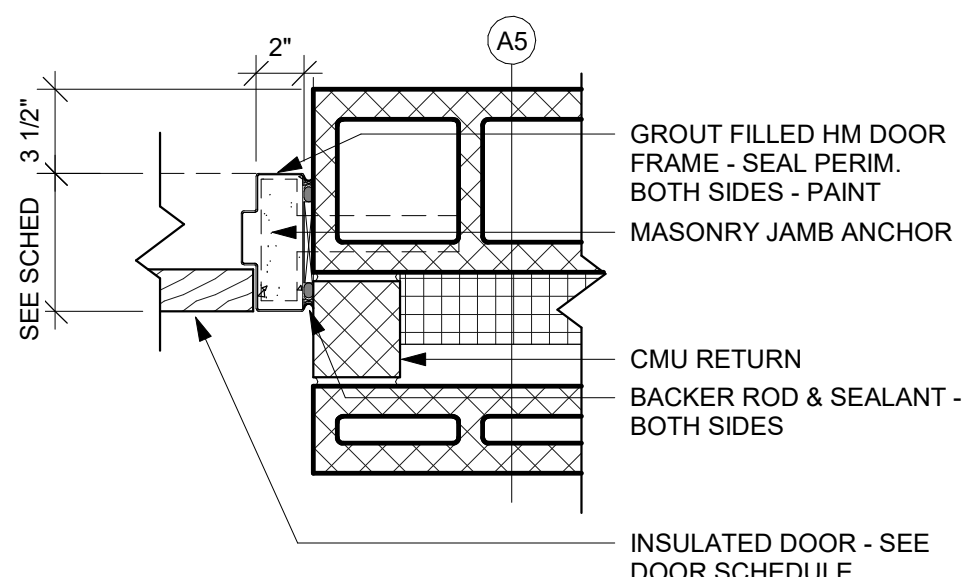
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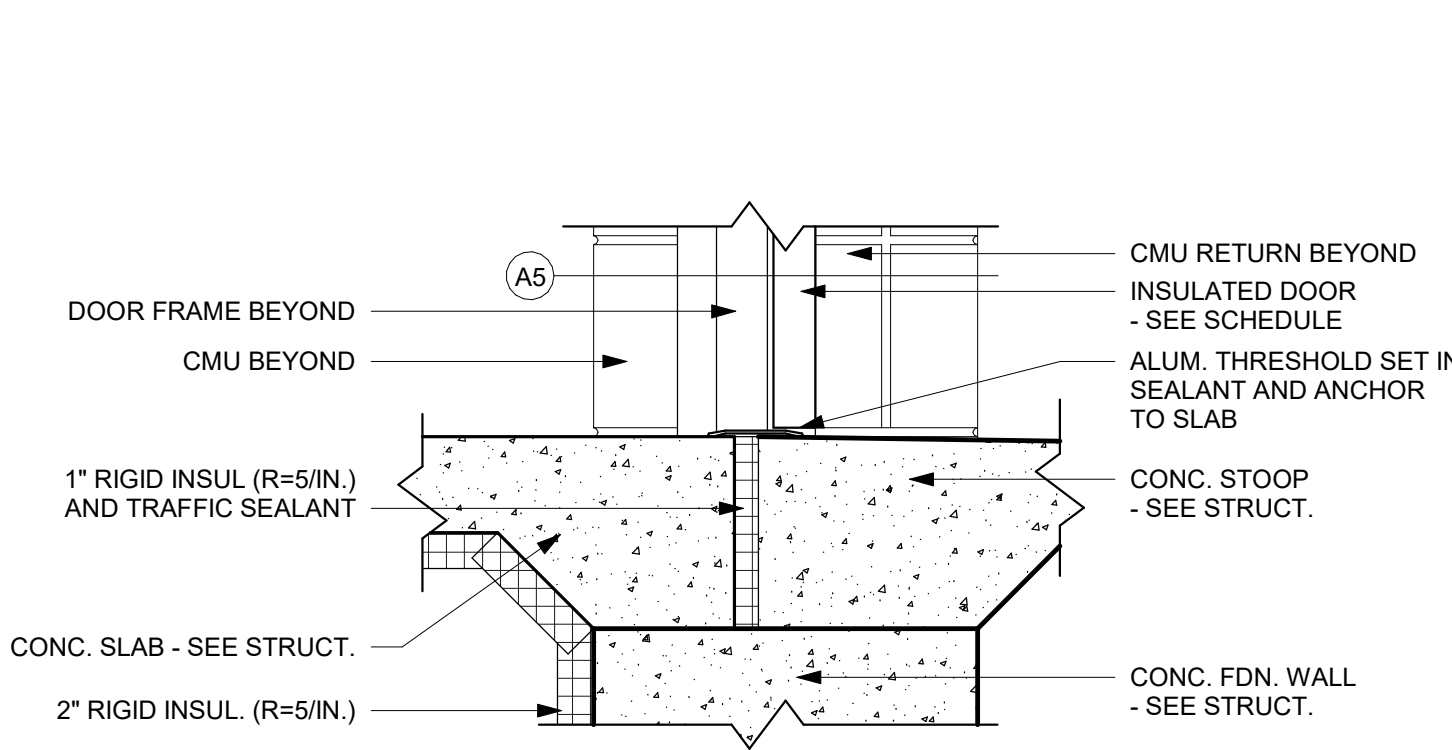
19 DR JAMB DETAIL
1 1/2" = 1'-0"



18 DR JAMB DETAIL
1 1/2" = 1'-0"



17 DR SILL DETAIL
1 1/2" = 1'-0"





Consultant:

Project Title:
**LA CRESCENT-HOKAH
HIGH SCHOOL/ MIDDLE SCHOOL**

Project Location:
**1301 LANCER BOULEVARD
LA CRESCENT, MINNESOTA**

Sheet Title:
DETAILS

HSR Project Number:
19014-1

Project Date:
3.5.2020

Drawn By:
HSR

Key Plan:

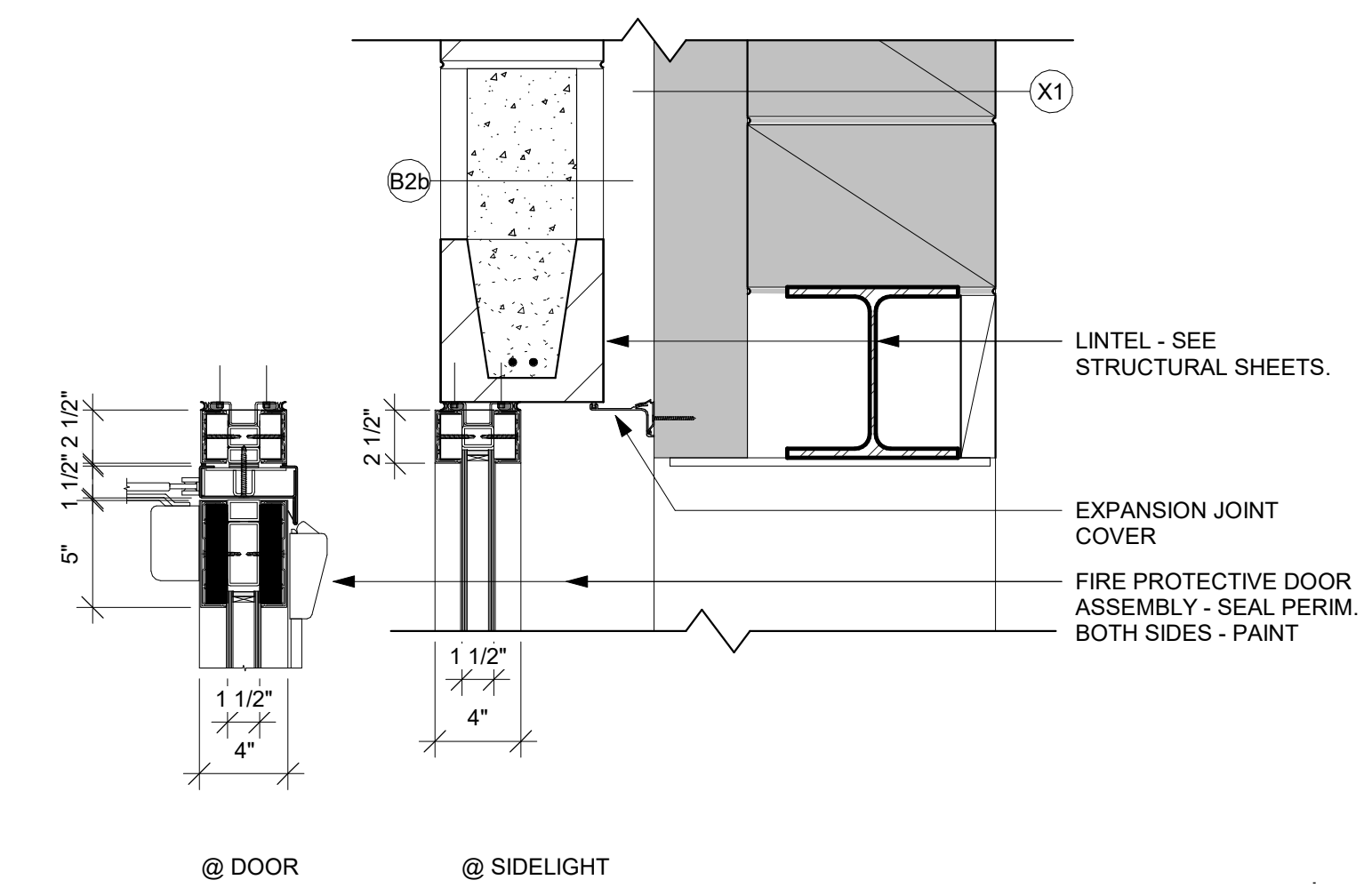
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DOCUMENTS**

No.	Description	Date
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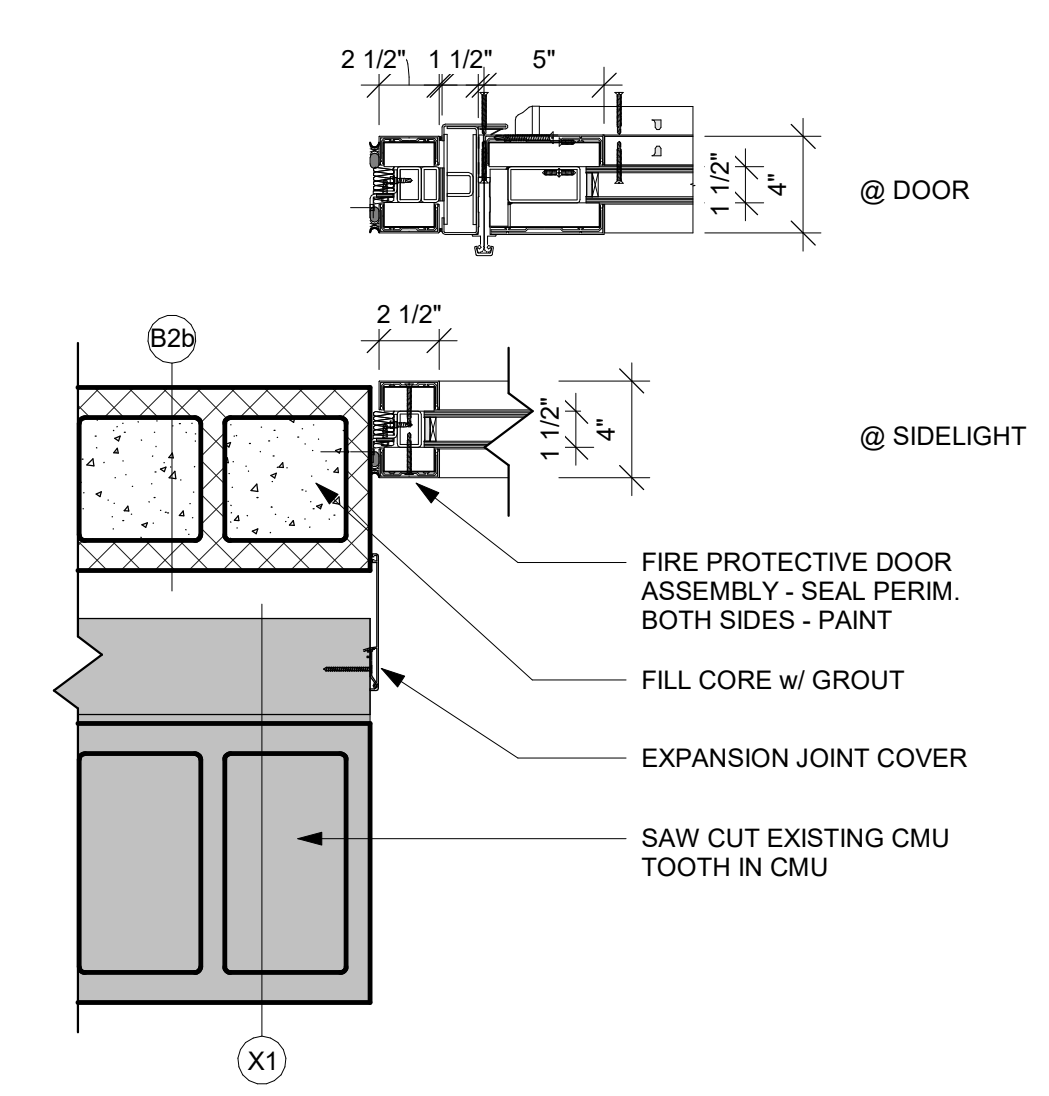
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Last Update:
3/18/2020 11:37:01 AM

A506



2 DR/SL HEAD DETAIL
1 1/2" = 1'-0"



1 DR/SL JAMB DETAIL
1 1/2" = 1'-0"

NEW SHEET
ADDED

ROOM FINISH REMARKS	
1	PANT ALL WALLS PNT-1. ACCENT AS INDICATED ON PLANS.
2	PANT ALL WALLS PNT-1 EPOXY.
3	FULL HEIGHT TILE AT WET WALLS ONLY. 6" TILE BASE AT REMAINING WALLS. SEE ID102 FOR TILE PATTERNS.
4	6" TLE-1 BASE ON ALL WALLS WITH TT-3 EDGE TRIM AND TT-4 COVE TRIM.

INTERIOR GENERAL NOTES:	
A	REFERENCES TO PAINT PERTAIN TO COLOR ONLY. PAINT TYPE SHALL BE IDENTIFIED IN THE ARCHITECTURAL SPECIFICATIONS.
B	PNT-1 FIELD PAINT. ACCENT PAINT AS INDICATED. SEE ID SHEETS.
C	REFER TO MASTER COLOR SCHEDULE ON ID600 FOR MATERIAL FINISH SPECIFICATIONS, ANNOTATIONS, AND ADDITIONAL INFORMATION.
D	TOILET ROOM WALL AND FLOOR GROUT LINES SHALL ALIGN TO CONTINUE PATTERN THROUGHOUT. SEE ID102 FOR ELEVATED PATTERNING.
E	VINYL COMPOSITE EDGE (VCE) TO BE INSTALLED AT DISSIMILAR FINISH AREAS. REFER TO ID SHEETS. INSTALL APPROPRIATE EDGE PROFILE TO PROTECT FINISH EDGES. COLOR AS SELECTED BY A/E.
F	AT DISSIMILAR FLOORING FINISHES, SET JOINT OF MATERIALS AT CENTER OF DOOR. TRANSITIONS TO BE ADA COMPLIANT.
G	REFER TO REFLECTED CEILING PLANS FOR EXPOSED STRUCTURE PAINT LOCATIONS. PAINT COLOR TO BE SELECTED BY A/E.

FINISH KEY PLAN:	
	SEE ROOM FINISH REMARKS
	WALL BASE
	6" INTEGRAL BASE
	ACCENT PAINT
REFER TO REFLECTED CEILING PLANS FOR EXPOSED STRUCTURE PAINT LOCATIONS. PAINT COLOR TO BE SELECTED BY A/E.	

FINISH LEGEND:			
	TLE-1		LVT-1
	TLE-2		LVT-2
	TLE-3		FAF-1
	TLE-4		CPT-1
	TLE-5		WCPT-1



1 FIRST FLOOR FINISH PLAN- AREA D
1/8" = 1'-0"



Consultant:

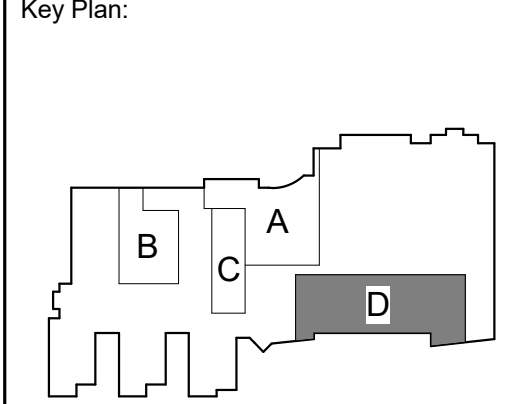
Project Title: **LA CRESCENT-HOKAH
HIGH SCHOOL/ MIDDLE SCHOOL**
Project Location: 1301 LANCER BOULEVARD
LA CRESCENT, MINNESOTA
Sheet Title: **FIRST FLOOR FINISH PLAN - AREA D**

HSR Project Number: **19014-1**

Project Date: **3.5.2020**

Drawn By: **K.VEERKAMP**

Key Plan:



KEY PLAN

**BID
DOCUMENTS**

No.	Description	Date
1	ADDENDUM 1	3/16/20

Graphic Scale: **VARIES**

Last Update: **3/16/2020 4:58:42 PM**

ID103



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ENGINEER CERTIFICATION
I hereby certify that this Plan, Specification or Report was prepared by me or under my direct supervision and that I am a duly licensed Professional Engineer under the laws of the state of Minnesota.
Wayne W. Vandenberg
Date: FEBRUARY 4, 2020 Lic. No. 43493

**LA CRESCENT - HOKAH SCHOOL DISTRICT
HIGH SCHOOL/ MIDDLE SCHOOL**
Project Location: 1301 LANCER BOULEVARD
LA CRESCENT, MINNESOTA
Structural Schedules

Project Title:
HSR Project Number:
19014.1
Project Date:
3.5.2020
Drawn By:
raSmith
Key Plan:

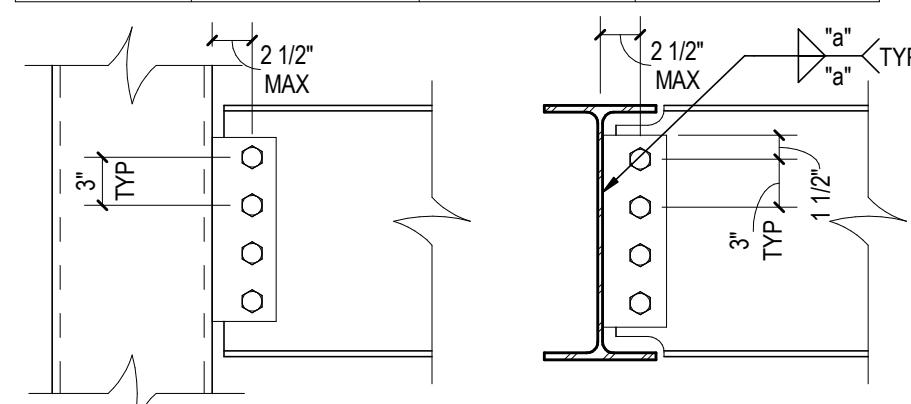
Revisions:
No. Description Date
1 ADDENDUM #1 3/16/2020

Graphic Scale:
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Last Update:
3/16/2020 12:24:22 PM

**BID
DOCUMENTS**

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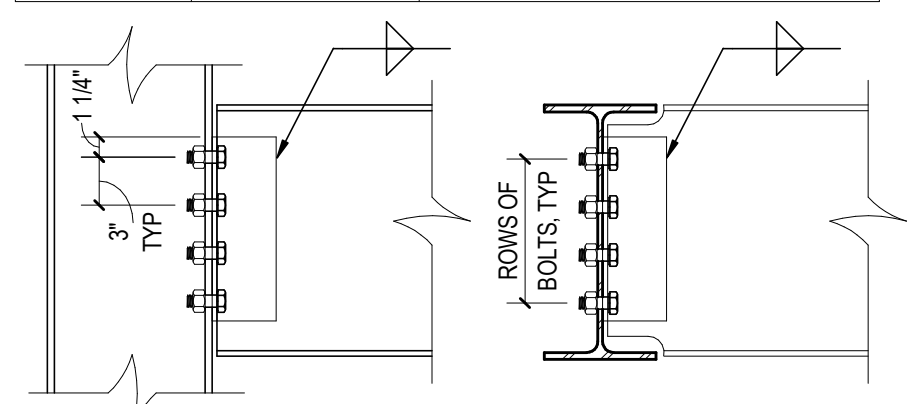
SINGLE PLATE SHEAR CONNECTION SCHEDULE			
BEAM SIZE	ROWS OF BOLTS	PLATE THICKNESS	WELD SIZE (a)
W8, W10	2	3/8"	5/16"
W12, W14	3	3/8"	5/16"
W16	4	3/8"	5/16"
W18	5	3/8"	5/16"
W21, W24	6	3/8"	5/16"
W27	7	3/8"	5/16"
W30, W33	8	3/8"	5/16"



BEAM TO COLUMN BEAM TO BEAM

- SINGLE PLATE SHEAR CONNECTION NOTES:**
- ALL BOLTS TO BE 3/4" DIA A325.
 - CONNECTIONS SHOWN ARE MINIMUM CONNECTIONS UNLESS NOTED OTHERWISE.
 - ALL STEEL EXPOSED TO EXTERIOR CONDITIONS SHALL BE GALVANIZED.

DOUBLE ANGLE CONNECTION SCHEDULE		
BEAM SIZE	ROWS OF BOLTS	REMARKS
W8, W10	2	
W12, W14	3	
W16	4	
W18	5	
W21, W24	6	
W27	7	
W30, W33	8	



BEAM TO COLUMN BEAM TO BEAM

- DOUBLE ANGLE CONNECTION NOTES:**
- ALL BOLTS TO BE 3/4" DIA A325.
 - ANGLE LEGS TO BE A MIN OF 5/16" THICK.
 - SEE PLAN FOR COLUMN ORIENTATION.
 - CONNECTIONS SHOWN ARE MINIMUM CONNECTIONS UNLESS NOTED OTHERWISE.
 - CONNECTION ANGLES SHALL BE 30 DEG MINIMUM.
 - ALL STEEL EXPOSED TO EXTERIOR CONDITIONS SHALL BE GALVANIZED.
 - ALL STANDARD DOUBLE ANGLE CONNECTION SHALL BE IN ACCORDANCE WITH AISC STEEL CONSTRUCTION MANUAL, 13th EDITION & SHALL BE TYPE 2 FRAMING, UNO.

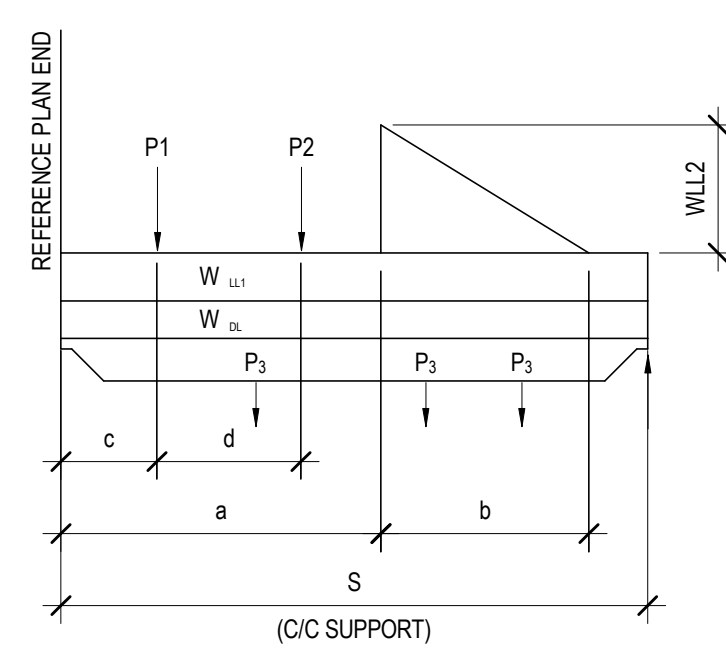
MISCELLANEOUS LINTEL SCHEDULE (SEE NOTE 1)			
WALL THICKNESS	CLEAR MASONRY OPENING WIDTH	SECTION	
ALL	AT FIRE EXTINGUISHER CABINETS AND DRINKING FOUNDATIONS	1/4" PL	---
4"	UP TO 4'-0"	L3 1/2x3 1/2x3/8	L
4"	UP TO 8'-0"	L5x3 1/2x3/8	L
8"	UP TO 5'-0"	(2) L3 1/2x3 1/2x1/4	J-L
8"	UP TO 7'-0"	(2) L4x3 1/2x5/16 LLV	J-L
8"	UP TO 9'-0"	WT 7 x 15	J
8"	UP TO 4'-0"	8" HIGH x 8" WIDE BOND BEAM w/ (2) #5 x CONT	
8"	UP TO 8'-0"	16" HIGH x 8" WIDE BOND BEAM w/ (2) #5 x CONT	
12"	UP TO 4'-0"	8" HIGH x 12" WIDE BOND BEAM w/ (2) #5 x CONT	
12"	UP TO 8'-0"	16" HIGH x 12" WIDE BOND BEAM w/ (2) #5 x CONT	

- LINTEL NOTES:**
- LINTELS CALLED OUT IN THIS SCHEDULE ARE FOR NON-LOAD BEARING MASONRY WALLS AND FOR LOAD BEARING WALLS WHERE LOAD IS INTRODUCED ABOVE THE LINTEL AT A DISTANCE GREATER THAN THE LINTEL SPAN.
 - PROVIDE MINIMUM 8" BEARING AT EACH END OF LINTEL.
 - CENTER LINTELS IN WALL UNLESS NOTED OTHERWISE.
 - BOTTOM PLATES UNDER WIDE FLANGE SHAPES SHALL BE EXTENDED TO THE FULL LENGTH OF LINTEL.
 - WELD LINTEL COMPONENTS INTO SINGLE UNIT.
 - NO LINTELS REQUIRED FOR 4" AND 8" NON-LOAD BEARING MASONRY WALLS WHERE GROUTED HOLLOW METAL FRAMES HAVE A HEADSPAN OF 4'-0" OR LESS.
 - PROVIDE THESE LINTELS WHERE OTHER LINTELS ARE NOT SPECIFICALLY DETAILED.
 - GROUT BLOCK CORES SOLID MINIMUM (3) COURSES BELOW LINTEL BEARING.

SPECIAL JOIST LOADING TABLE												
MARK	REFERENCE PLAN END	DIMENSION (FEET)				LOAD (LBS/FT)			P (LBS)	P (LBS)	P (LBS) - NOTE 1	
		S	a	b	c	d	W _u -*	W _u				W _u
16KSP1	WEST	-	Ø	14	-	-	120	125	120	-	-	100
16KSP2	WEST	-	Ø	15	-	-	120	275	-	-	-	100

* JOIST SELF WEIGHT IS NOT INCLUDED WITH THIS LOAD, AND MUST BE ADDED BY THE JOIST SUPPLIER

NOTES:
1. APPLY (3) P₁ LOADS ANYWHERE ALONG BOTTOM CHORD



SPECIAL JOIST LOAD DIAGRAM

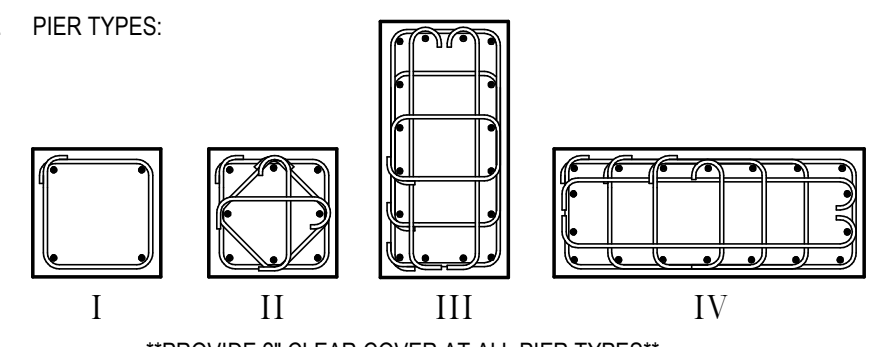
CONTINUOUS FOOTING SCHEDULE				
MARK	CONTINUOUS FOOTING DIMENSIONS		FOOTING REINFORCEMENT	REMARKS
	WIDTH	THICKNESS		
W20	2'-0"	12"	(2) #5, B, CONT	
W26	2'-6"	12"	(3) #5, B, CONT	
W30	3'-0"	12"	(3) #5, B, CONT	

ISOLATED FOOTING SCHEDULE				
MARK	ISOLATED FOOTING DIMENSIONS		FOOTING REINFORCEMENT	REMARKS
	LENGTH	WIDTH		
F30	3'-0"	3'-0"	12"	(3) #5, B, EW
F40	4'-0"	4'-0"	12"	(4) #5, B, EW

- NOTES:**
- B = BOTTOM, T = TOP, LW = LONG WAY, SW = SHORT WAY, EW = EACH WAY.
 - ALL REINFORCEMENT BARS TO BE BOTTOM BARS UNLESS NOTED OTHERWISE.

CONCRETE PIER SCHEDULE						
MARK	PIER DIMENSIONS		PIER TYPE	REINFORCEMENT		REMARKS
	X	Y		VERTICAL	TIES	
P1	22"	22"	I	(8) #6	#3 AT 12"	

- NOTES:**
- PIERS TO BE CENTERED ON BUILDING GRID LINE(S), UNLESS NOTED OTHERWISE.
 - REFERENCE DETAIL 10/S800 FOR TYPICAL PIER INFORMATION.
 - CAST PIER MONOLITHICALLY WITH FOUNDATION WALL.
 - PIER TYPES:



PROVIDE 2" CLEAR COVER AT ALL PIER TYPES

LINTEL SCHEDULE				
LINTEL MARK	DESCRIPTION	SECTION	END BEARING PLATES	REMARKS
L1	16" HIGH x 8" WIDE BOND BEAM w/ (2) #5 x CONT		N/A	2.7.8
L2	W8x21 W BOTTOM PL 3/8"x1'-3"		PL 3/8"x15"x0'-8" W(2) 1/2" DIA x 6" LONG HWS	1-6,10
L3	32" HIGH x 8" WIDE BOND BEAM w/ (2) #5 x CONT		N/A	2.7.8
L4	W16x36 W BOTTOM PL 3/8"x1'0"		PL 3/8"x7"x0'-8" W(2) 1/2" DIA x 6" LONG HWS	1-6,10
L5	W8x24 W BOTTOM PL 3/8"x1'0"		PL 3/8"x7"x0'-8" W(2) 1/2" DIA x 6" LONG HWS	1-6,10
L6	W16x40 W BOTTOM PL 3/8"x1 3/4"		PL 3/8"x7"x0'-8" W(2) 1/2" DIA x 6" LONG HWS	1-6,10
L7	W16x36 W BOTTOM PL 3/8"x7 1/2"		PL 3/8"x7"x0'-8" W(2) 1/2" DIA x 6" LONG HWS	1-6,10
L8	W8x21 W BOTTOM PL 3/8"x1'1"		PL 3/8"x7"x0'-8" W(2) 1/2" DIA x 6" LONG HWS	1-6,10
L9	HSS8x6x3/16		PL 3/8"x7"x0'-8" W(2) 1/2" DIA x 6" LONG HWS	1-6

- NOTES:**
- REFERENCE DETAIL 10/S810 FOR TYPICAL LINTEL BEARING REQUIREMENTS.
 - TYPICAL NOTES THAT APPLY UNLESS NOTED OTHERWISE:
a) PROVIDE MINIMUM 8" BEARING AT EACH END OF LINTEL.
b) CENTER LINTELS IN WALL UNLESS NOTED OTHERWISE.
c) BOTTOM PLATES WHERE CALLED FOR SHALL EXTEND FULL LENGTH OF LINTEL.
d) REFERENCE DETAIL 4/S003 & 9/S810 FOR TYPICAL CMU WALL OPENING REINFORCEMENT REQUIREMENTS
e) REFERENCE DETAIL 4/S003 FOR TYPICAL CMU CONTROL JOINT REQUIREMENTS
 - NOTCH FACE SHELL AS REQUIRED TO PLACE CMU.
 - PROVIDE 1/2" DIA x 6" LONG HEADED WELDED STUDS (HWS) AT 24" OC ON TOP OF LINTEL. GROUT CMU CORE SOLID 8" (MIN) ABOVE TOP OF LINTEL AT HWS LOCATIONS.
 - PROVIDE ADJUSTABLE MASONRY ANCHORS AT 16" OC EACH SIDE OF WEB.
 - ALL EXTERIOR LINTELS (INCLUDING BOTTOM PLATES) TO BE HOT-DIPPED GALVANIZED.
 - WIDTH OF BOND BEAM TO MATCH WIDTH OF WALL.
 - PROVIDE 1" BOTTOM CLEAR COVER.
 - SEE MISCELLANEOUS LINTEL SCHEDULE FOR BRICK SUPPORT IN FRONT OF CMU LINTELS.
 - SOLID GROUT JAMB DOWN TO FOUNDATION SUPPORT FOR BEARING OF THIS LINTEL.



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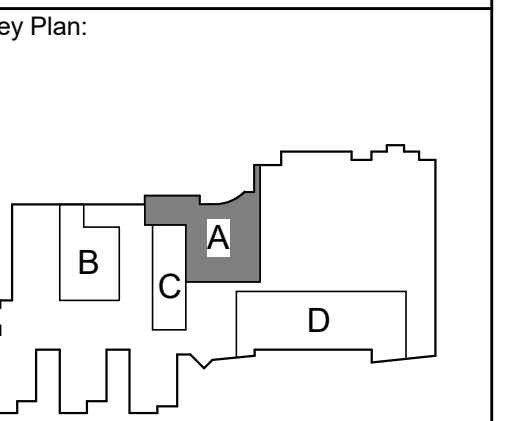
Consultant:
raSmith
CREATIVITY BEYOND ENGINEERING
raSmith.com
project number: 190387

ENGINEER CERTIFICATION
I hereby certify that this Plan, Specification or Report was prepared by me or under my direct supervision and that I am a duly licensed Professional Engineer under the laws of the state of Minnesota.
Wayne W. Vandenberg
Wayne W. Vandenberg
Date: FEBRUARY 4, 2020 Lic. No. 43493

**LA CRESCENT - HOKAH SCHOOL DISTRICT
HIGH SCHOOL/ MIDDLE SCHOOL
FOUNDATION PLAN - AREA A**

Project Title: **LA CRESCENT - HOKAH SCHOOL DISTRICT HIGH SCHOOL/ MIDDLE SCHOOL**
Project Location: **1301 LANCER BOULEVARD LA CRESCENT, MINNESOTA**

HSR Project Number: **19014.1**
Project Date: **3.5.2020**
Drawn By: **raSmith**



KEY PLAN

BID DOCUMENTS

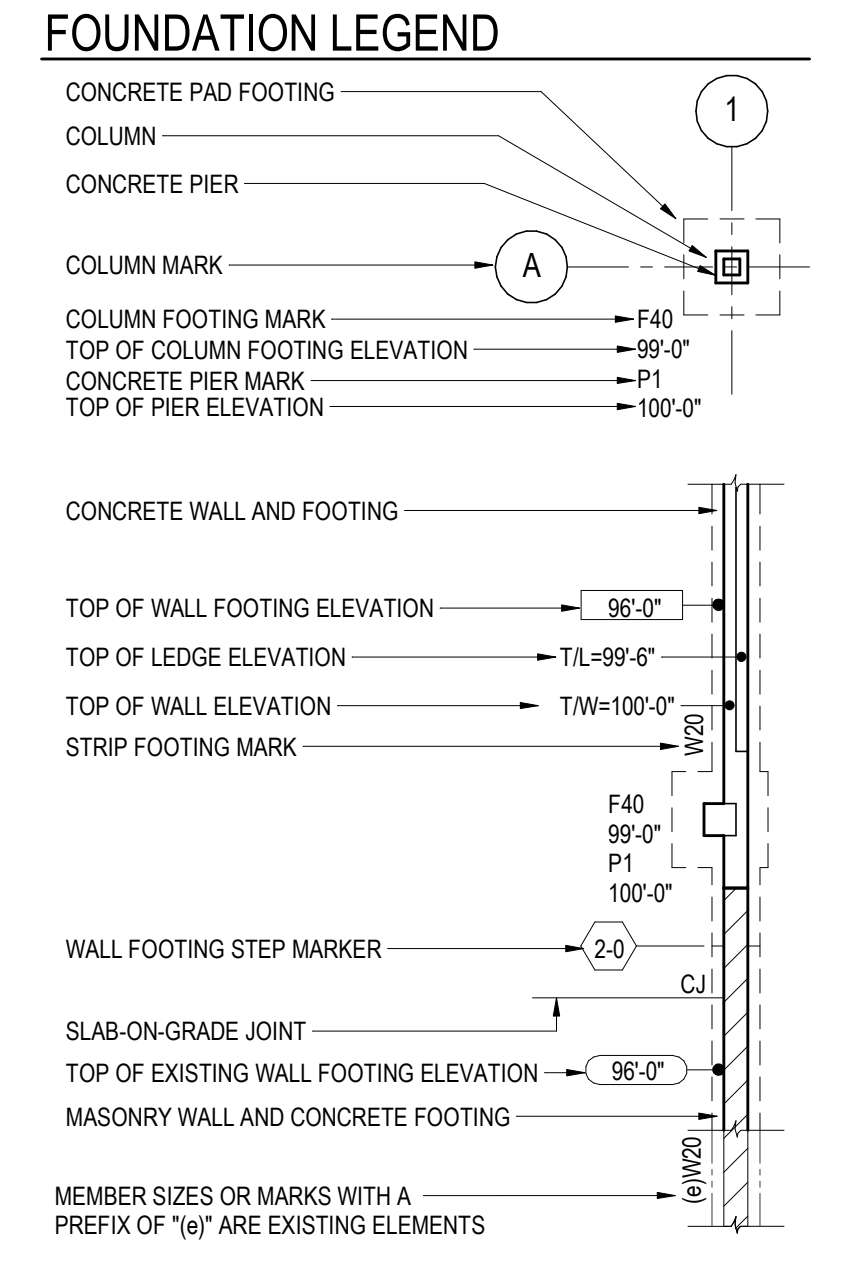
Revisions:

No.	Description	Date
1	ADDENDUM #1	3/16/2020

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Last Update: **3/16/2020 12:24:22 PM**

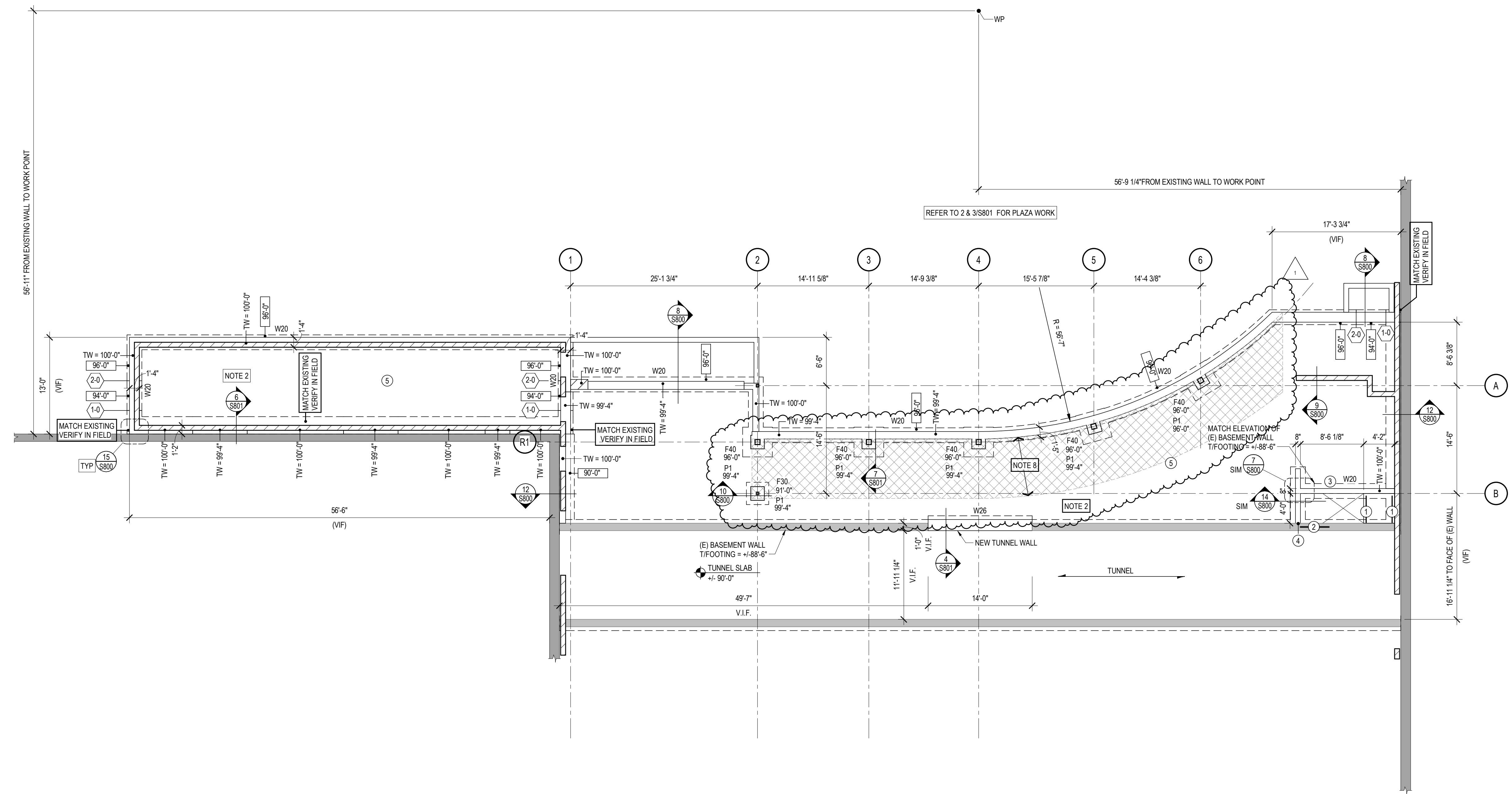
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- FOUNDATION PLAN NOTES**
- SEE PLAN FOR FINISH SLAB ELEVATION AND TOP OF FOOTING ELEVATION. 1962 DOCUMENTS 94'-0" = FINISH FLOOR = 100'-0"
 - SLAB-ON-GRADE TO BE 4" THICK WITH SYNTHETIC FIBERS (REFER TO SPECIFICATION) ON VAPOR BARRIER OVER 6" COARSE STONE BASE UNLESS NOTED OTHERWISE.
 - TYPICAL WHERE SLAB-ON-GRADE ABUTS WALL OR COLUMN. PROVIDE 1/4" x (SOG THICKNESS) ISOLATION FILLER STRIP. SET STRIP 1/4" BELOW FINISH SLAB ELEVATION.
 - OVER-EXCAVATION PER DETAIL 1S800 MAY BE REQUIRED TO REMOVE EXISTING UNDOCUMENTED FILL AND UNSUITABLE BEARING SOIL.
 - TYPICAL DETAILS THAT APPLY TO PLAN INCLUDE:
2/S800 FOOTING STEP DETAIL
3/S800 WALL FOOTING OVER LATERAL
4/S800 CONCRETE WALL OPENING DETAIL
5/S800 SLAB-ON-GRADE JOINT DETAIL
6/S800 CONCRETE WALL JOINT DETAIL
7/S800 CORNER REINFORCEMENT DETAIL
8/S800 STOOP DETAIL
 - 8" CMU #5C48 UNLESS NOTED OTHERWISE
 - WALL FOUNDATIONS ARE W24 UNLESS OTHERWISE NOTED
 - AT RADIANT FLOOR HEAT, (APPROX 8" OFF EXTERIOR WALL), SLAB-ON-GRADE TO BE 4" THICK WITH SYNTHETIC FIBERS (REFER TO SPECIFICATIONS) ON VAPOR BARRIER OVER 2" RIGID INSULATION (EPS 15 OR SIMILAR) COORDINATE LIMITS OF, AND INSTALLATION OF RADIANT FLOOR HEAT W/ HEATING CONTRACTOR.

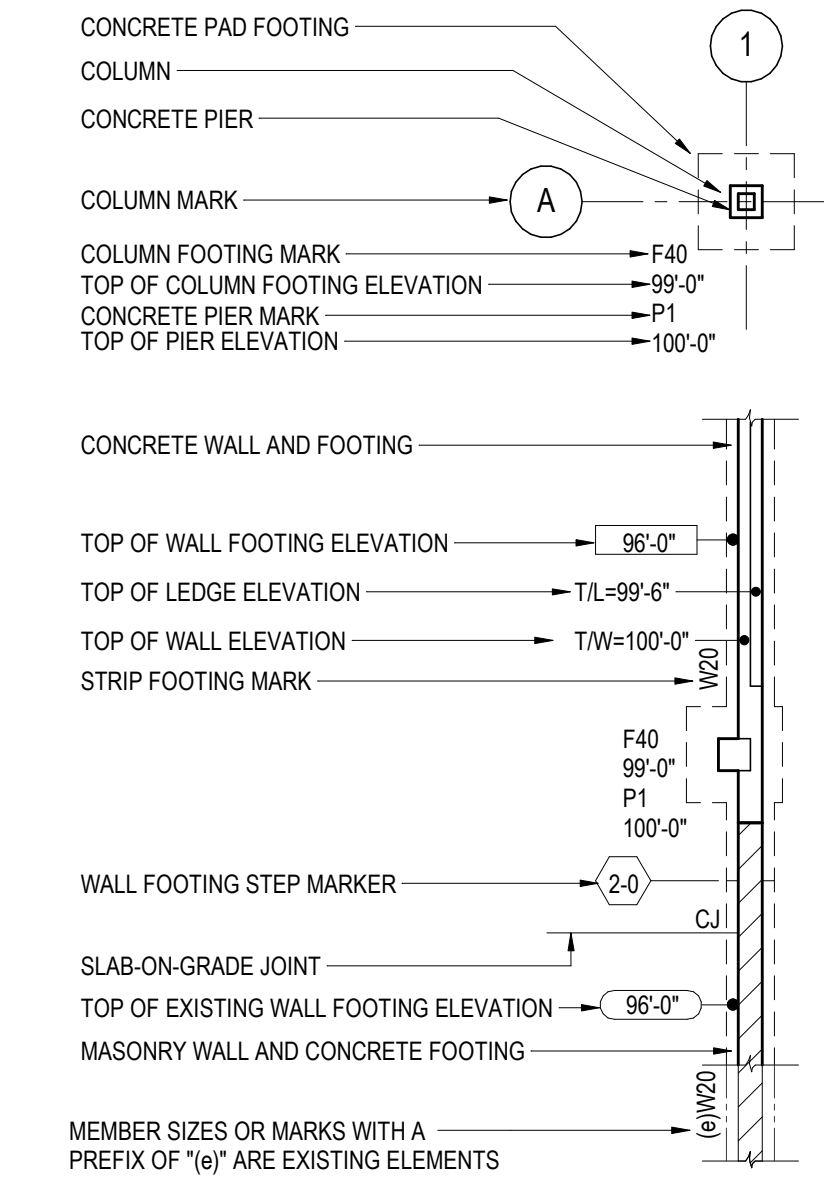
- FOUNDATION KEY NOTES**
- HSS 4x4x1/4 (1/STEEL = 99'-8") AT 24" OC. MAX 4" CONCRETE DECK ON 1.58-20GA WIDE RIB DECK
 - CUT 3'-10" x 7'-0" OPENING IN 12" CIP WALL
 - 8" CIP WALL W/ #5 AT 12" EW, CENTERED
 - DOWEL NEW CIP TO (E) TUNNEL W/ #4x18" AT 24" OC
 - SLAB CONTROL JOINTS AT 12'-0" OC. REFER TO DETAIL 5/S800

GEOTECHNICAL NOTE
CHOSEN VALLEY REPORT RECOMMENDS REMOVAL OF SOIL, FILL AND ALLUVIAL MATERIALS UNDER FOOTINGS TO ELEVATION +/- 87.2 EQUAL TO PLAN ELEVATION OF 89'-0". REFER TO GEOTECHNICAL REPORT FOR MORE INFORMATION AND DETAIL 1S800 FOR OVER-EXCAVATION DETAIL.



FOUNDATION PLAN - AREA A
SCALE: 1/8" = 1'-0"

FOUNDATION LEGEND



FOUNDATION PLAN NOTES

- SEE PLAN FOR FINISH SLAB ELEVATION AND TOP OF FOOTING ELEVATION. 1/8" DOCUMENTS 94'-0" = FINISH FLOOR + 100'-0"
- SLAB-ON-GRADE TO BE 6" THICK WITH SYNTHETIC FIBERS (REFER TO SPECIFICATION) ON VAPOR RETARDER OVER 6" COARSE STONE BASE UNLESS NOTED OTHERWISE.
- SLAB-ON-GRADE TO BE 6" THICK WITH SYNTHETIC FIBERS (REFER TO SPECIFICATION) ON VAPOR RETARDER OVER 6" COARSE STONE BASE UNLESS NOTED OTHERWISE.
- TYPICAL WHERE SLAB-ON-GRADE ABUTS WALL OR COLUMN, PROVIDE 1/4" x (80G THICKNESS) ISOLATION FILLER STRIP. SET STRIP 1/4" BELOW FINISH SLAB ELEVATION.
- OVER-EXCAVATION PER DETAIL 1/5800 MAY BE REQUIRED TO REMOVE EXISTING UNDOCUMENTED FILL AND UNSUITABLE BEARING SOIL.
- TYPICAL DETAILS THAT APPLY TO PLAN INCLUDE:
2/5800 FOOTING STEP DETAIL
3/5800 WALL FOOTING OVER LATERAL
4/5800 CONCRETE WALL OPENING DETAIL
5/5800 SLAB-ON-GRADE JOINT DETAIL
6/5800 CONCRETE WALL JOINT DETAIL
7/5800 CORNER REINFORCEMENT DETAIL
8/5800 STOOP DETAIL
- 6" CMU #5C48 UNLESS NOTED OTHERWISE
- WALL FOUNDATIONS ARE W24 UNLESS OTHERWISE NOTED
- SLAB ON GRADE TO BE 6" THICK W/ WWF 6-6-W2-4H/2-4 OVER 6" COARSE STONE BASE

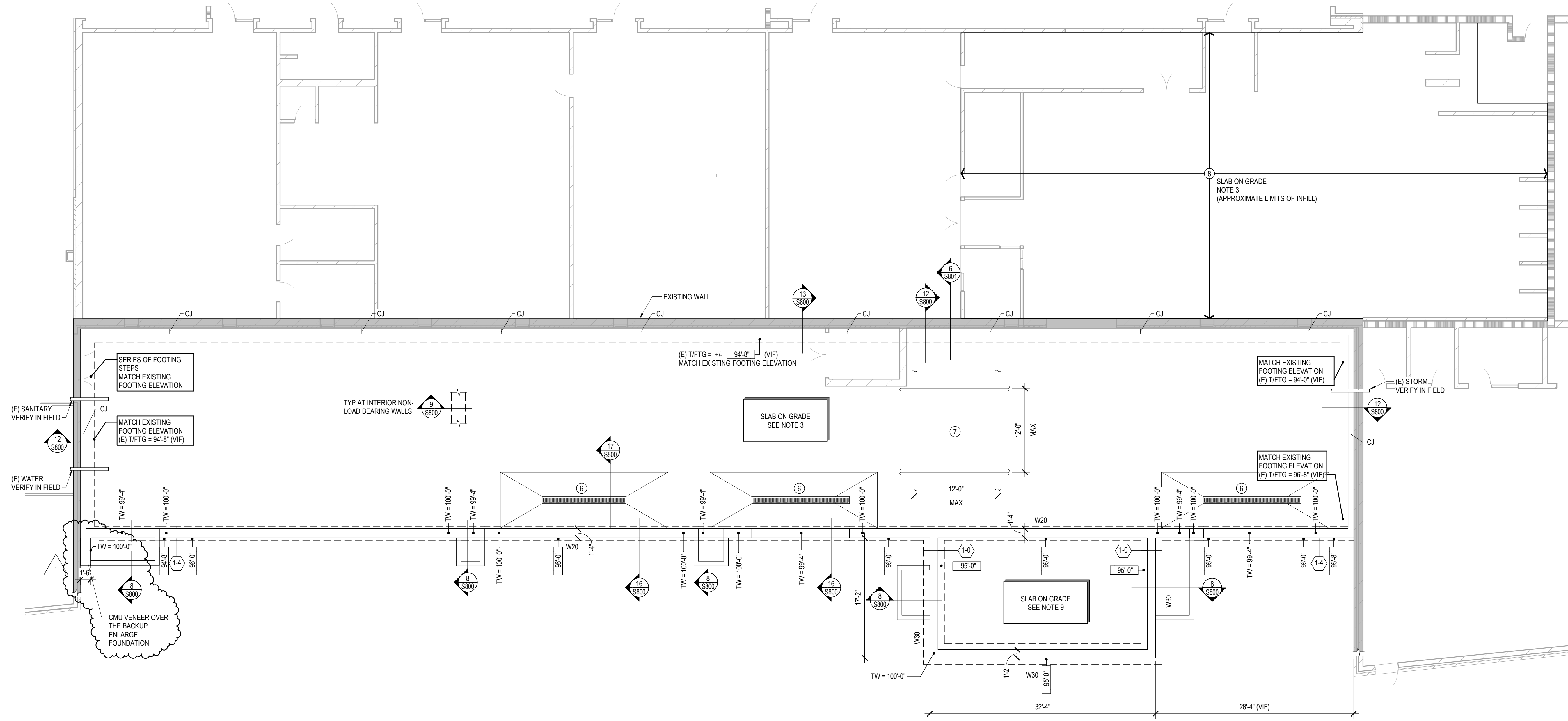
FOUNDATION KEY NOTES

- 15x5/8 SILL ANGLE PROVIDED BY STEEL SUPPLIER AND INSTALLED BY ELEVATOR CONTRACTOR.
- CUT INTO FOUNDATION WALL FOR DOOR AFTER C12 INSTALLED (S201) EXTEND CUT OPEN TO ELEVATION + 89'-0".
- POUR NEW 4" SLAB RAMP AS PER NOTE 1
- REGION OF OVER-EXCAVATION DUE TO POOR TOP SOIL AND LOESSIAL CLAYS TO BE REMOVED BEFORE BACK FILLING WITH CLEAN GRANULAR FILL. REFER TO GEOTECHNICAL REPORT FOR MORE DETAIL.
- GYMNASIUM K17 IS APPROVED FOR SYNTHETIC FIBERS. REFER TO ARCH AND SPECIFICATION 03 20 00.
- SLOPE TO TRENCH DRAIN
- SLAB CONTROL JOINTS AT 12'-0" OC. REFER TO 5/5800
- FILL TO ELEVATION W/ COMPACTED ENGINEER FILL OR RIGID INSULATION RATED SUCH AS EPS-99 OR FOAMULAR 400

GEOTECHNICAL NOTE

CHOSEN VALLEY REPORT RECOMMENDS REMOVAL OF SOIL, FILL AND ALLUVIAL MATERIALS UNDER FOOTINGS TO ELEVATION + 87'2" EQUAL TO PLAN ELEVATION OF 93'-0". REFER TO GEOTECHNICAL REPORT FOR MORE INFORMATION AND DETAIL 1/5800 FOR OVER-EXCAVATION DETAIL.

1 FOUNDATION PLAN - AREA D
SCALE: 1/8" = 1'-0"



**BID
DOCUMENTS**

Revisions:		
No.	Description	Date
1	ADDENDUM #1	3/16/2020

Graphic Scale:
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Last Update:
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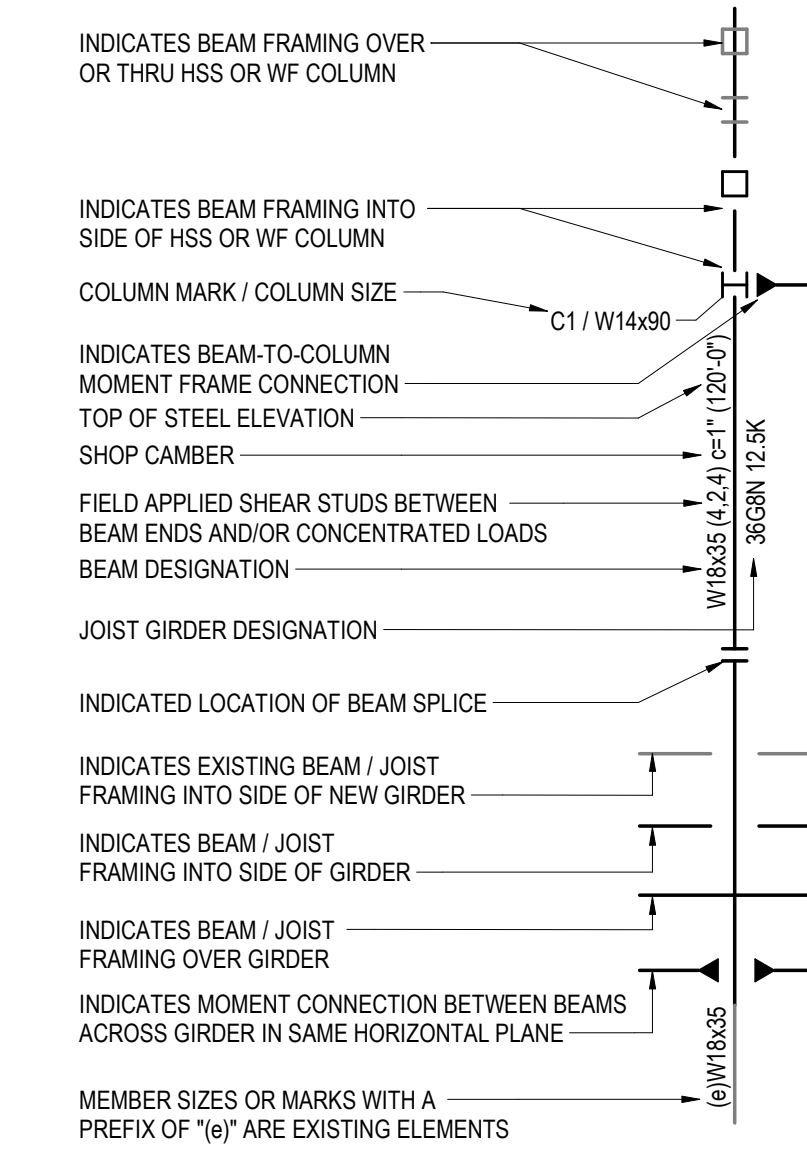


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Consultant:
raSmith
CREATIVITY BEYOND ENGINEERING
project number: 190367

ENGINEER CERTIFICATION
I hereby certify that this Plan, Specification or Report was prepared by me or under my direct supervision and that I am a duly licensed Professional Engineer under the laws of the state of Minnesota.
Wayne W. Vandenberg
Date: FEBRUARY 4, 2020 Lic. No. 43493

STRUCTURAL STEEL LEGEND

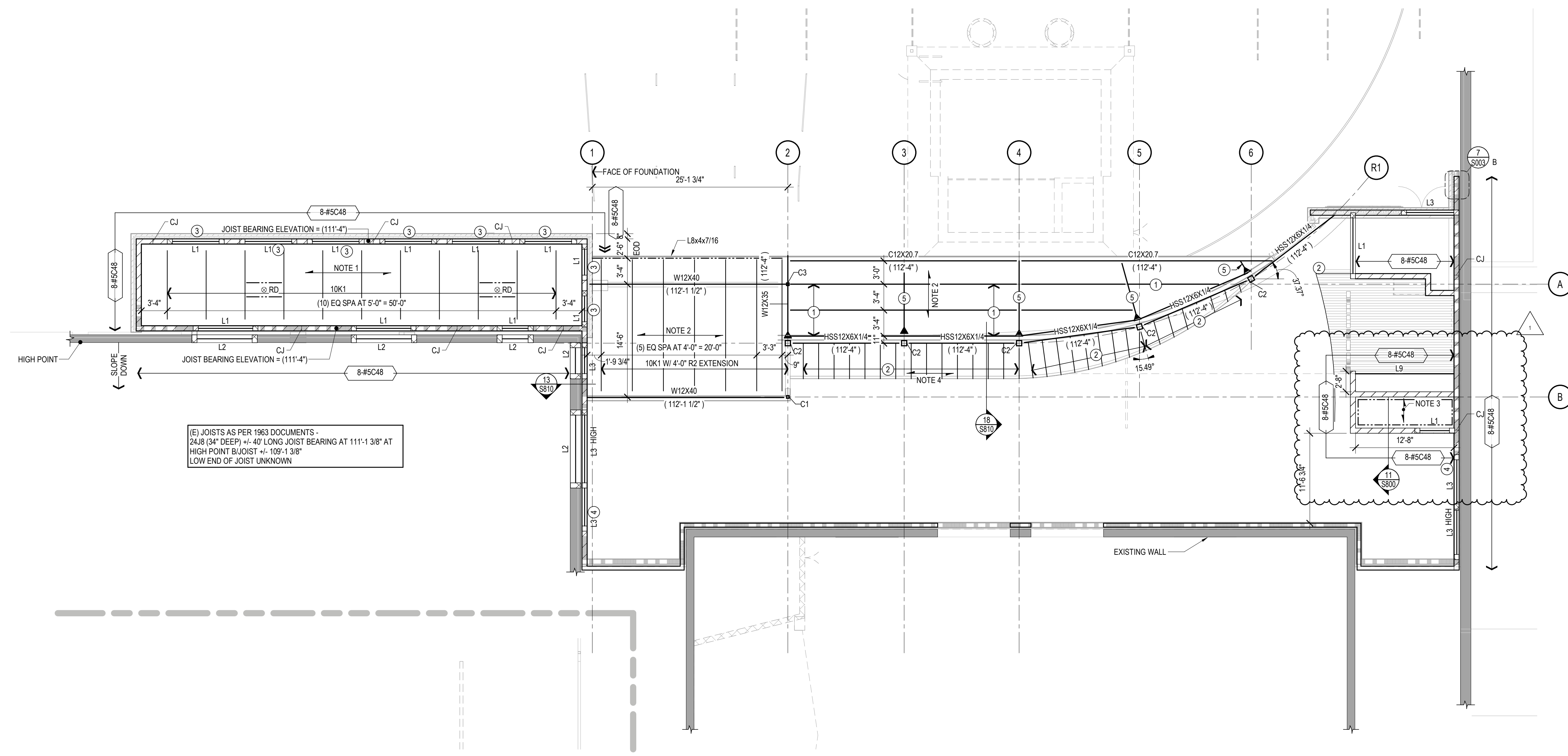


FRAMING PLAN NOTES

- ROOF DECKING SHALL BE 1 1/2" x 20GA WIDE RIB PRIME PAINTED METAL ROOF DECK FASTENED TO SUPPORTING STRUCTURE USING 3664 PATTERN OF ANY OF THE ATTACHMENT METHODS SHOWN IN DETAIL 15810 WITH #10 TEK SIDELAP FASTENERS AT 18" OC. PROVIDE DECK WITH THE FOLLOWING PROPERTIES:
THICK = 0.0358 in L_y = 0.201 in²/ft S_y = 0.234 in²/ft
F_y = 33 KSI L_x = 0.222 in²/ft S_x = 0.247 in²/ft
- INSTALL DECK UNDER 3 OR MORE SPAN CONDITIONS.
- ROOF DECKING SHALL BE 1 1/2" x 20GA WIDE RIB GALVANIZED METAL ROOF DECK FASTENED TO SUPPORTING STRUCTURE USING 3664 PATTERN OF ANY OF THE ATTACHMENT METHODS SHOWN IN DETAIL 15810 WITH #10 TEK SIDELAP FASTENERS AT 18" OC. PROVIDE DECK WITH THE FOLLOWING PROPERTIES:
THICK = 0.0358 in L_y = 0.201 in²/ft S_y = 0.234 in²/ft
F_y = 33 KSI L_x = 0.222 in²/ft S_x = 0.247 in²/ft
- INSTALL DECK UNDER 3 OR MORE SPAN CONDITIONS.
- COMPOSITE DECK SHALL BE 1.5VLR-20GA METAL DECK FASTENED TO EDGE ANGLES AT 12" OC. FILL W/ 4" TOTAL THICKNESS CONCRETE.
- ROOF DECK SHALL BE 1" 20GA PAINTED METAL ROOF DECK FASTENED AT 12" OC ON EACH OUTRIGGER
THICKNESS = 0.0179" L_y = 0.040 S_y = 0.067
F_y = 33 KSI L_x = 0.042 S_x = 0.071
- RD = ROOF DRAIN - LOCATION AND SIZE TO BE COORDINATED BETWEEN GENERAL CONTRACTOR AND PLUMBING CONTRACTOR.

FLOOR FRAMING KEY NOTES

- W8x24 T1STEEL = 112'-4"
- HSS 2x2x3/16 AT 24" OC T1STEEL = 112'-6"
- REFER TO MISCELLANEOUS LINTEL SCHEDULE FOR BRICK SUPPORT
- BOTTOM OF WALL - OVER TUNNEL +16' EITHER WAY
- HSS12x6x3/8 T1STEEL = 112'-4"



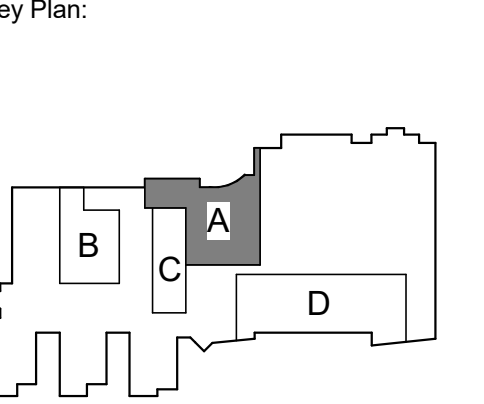
1 FRAMING PLAN AREA A
SCALE: 1/8" = 1'-0"

**LA CRESCENT - HOKAH SCHOOL DISTRICT
HIGH SCHOOL/ MIDDLE SCHOOL**
Project Location: 1301 LANCER BOULEVARD
LA CRESCENT, MINNESOTA
Sheet Title: **LOW ROOF FRAMING PLAN - AREA A**

Project Title:
HSR Project Number:
19014.1

Project Date:
3.5.2020

Drawn By:
raSmith



KEY PLAN

BID DOCUMENTS

Revisions:

No.	Description	Date
1	ADDENDUM #1	3/16/2020

Graphic Scale:
VARIES

Last Update:
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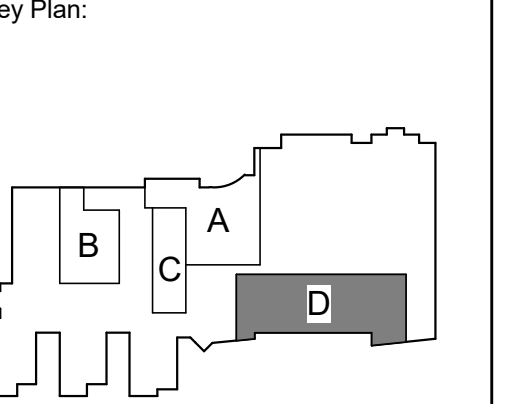
ENGINEER CERTIFICATION
I hereby certify that this Plan, Specification or Report was prepared by me or under my direct supervision and that I am a duly licensed Professional Engineer under the laws of the State of Wisconsin.
Wayne W. Vandenberg
Wayne W. Vandenberg
Date: FEBRUARY 4, 2020 Lic. No. 42493

**LA CRESCENT - HOKAH SCHOOL DISTRICT
HIGH SCHOOL/ MIDDLE SCHOOL**
Project Location: 1301 LANCER BOULEVARD
LA CRESCENT, MINNESOTA
FLOOR FRAMING PLAN - AREA D

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KEY PLAN

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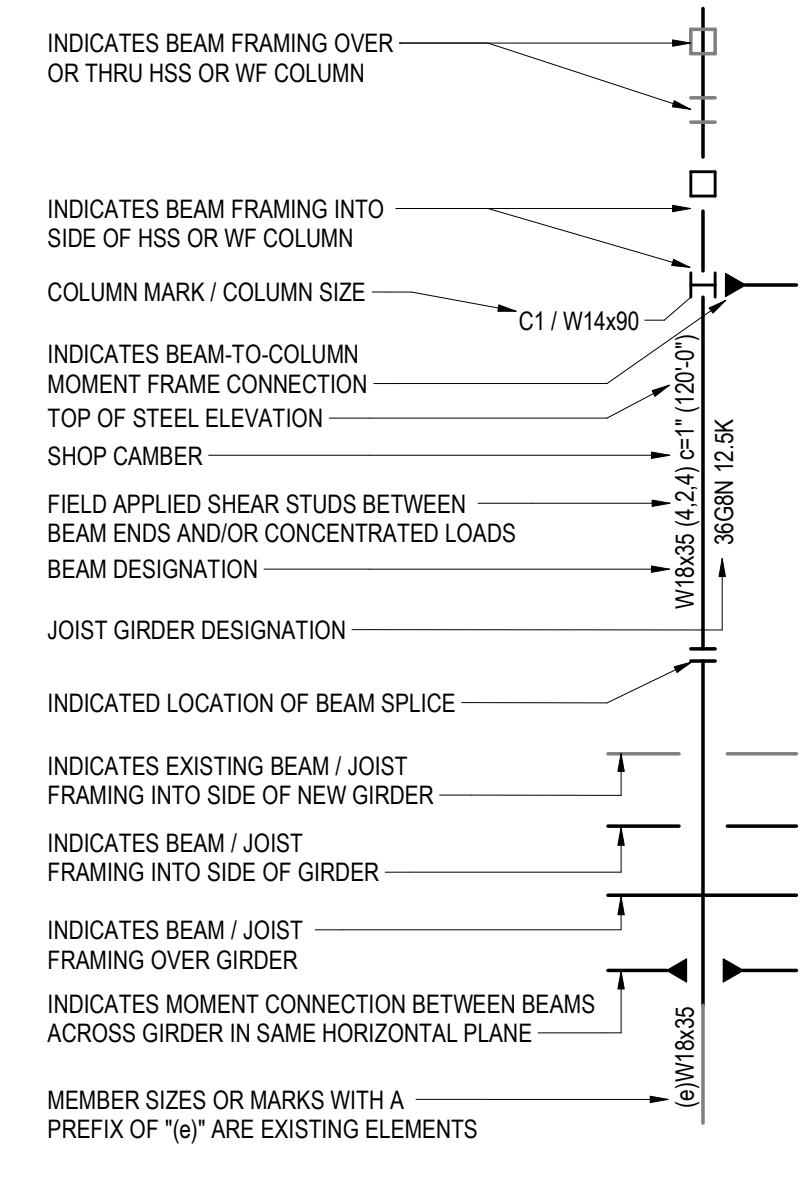
No.	Description	Date
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STRUCTURAL STEEL LEGEND

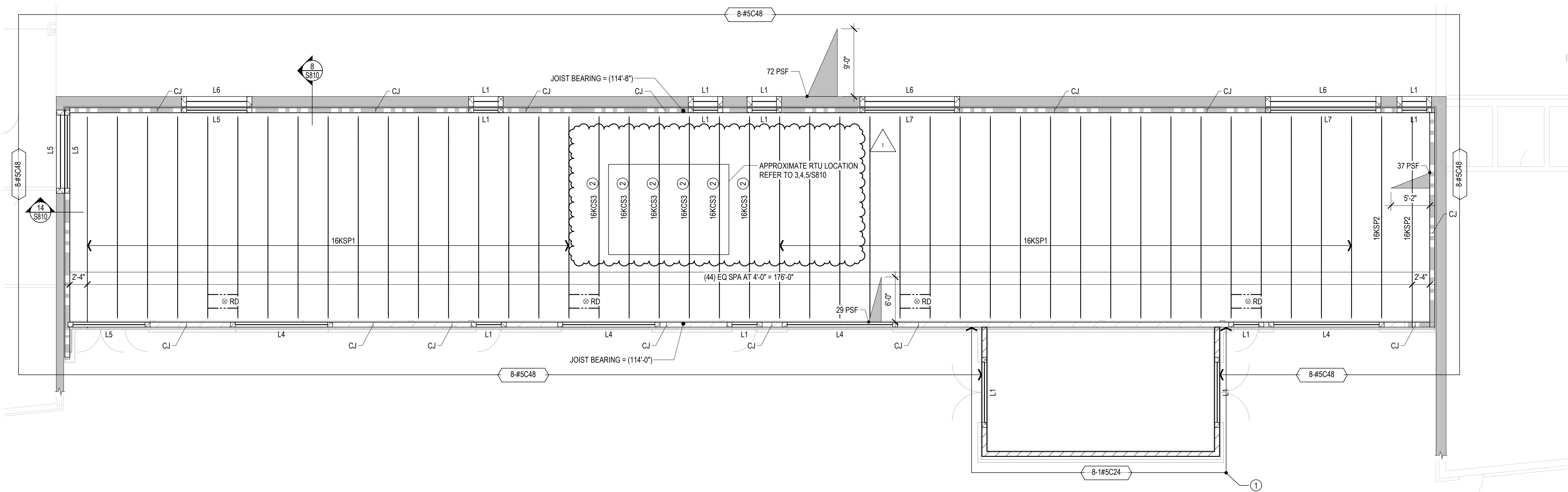


FLOOR FRAMING KEY NOTES

- BOND BEAM 4" ABOVE GRADE, OPENING HEAD COURSE AND T/WALL
- JOIST SIZED ASSUMING 10' OF JOIST LOADED BY 200PLF FOR RTU IN ADDITION TO SNOW DRIFT AND POINT LOADS AS PER 19KSP1. VERIFY WITH RTU SELECTION

ROOF FRAMING PLAN NOTES

- SEE PLAN FOR TOP OF STEEL ELEVATION NOTED AS (X'-X") OR (T/S = X'-X")
- ROOF DECKING SHALL BE 1 1/2" x 20GA WIDE RIB PRIME PAINTED METAL ROOF DECK FASTENED TO SUPPORTING STRUCTURE USING 3648 PATTERN OR ANY OF THE ATTACHMENT METHODS SHOWN IN DETAIL 19S10 WITH #10 TEK SIDELAP FASTENERS AT 18" OC. PROVIDE DECK WITH THE FOLLOWING PROPERTIES:
THICK = 0.0358 in I = 0.201 in⁴ S_x = 0.234 in³ F_y = 33 KSI
I_y = 0.222 in⁴ S_y = 0.247 in³
- INSTALL DECK UNDER 3 OR MORE SPAN CONDITIONS.
- ROOF DECKING SHALL BE 3" x 20GA WIDE RIB PRIME PAINTED ACOUSTIC METAL ROOF DECK FASTENED TO SUPPORTING STRUCTURE USING 3648 PATTERN WITH 5/8" PUDDLE WELDS, WITH #10 TEK SIDELAP FASTENERS AT 18" OC. PROVIDE DECK WITH THE FOLLOWING PROPERTIES:
THICK = 0.0358 in I = 0.848 in⁴ S_x = 0.501 in³ F_y = 33 KSI
I_y = 1.079 in⁴ S_y = 0.552 in³
- INSTALL DECK UNDER 3 OR MORE SPAN CONDITIONS.
- PROVIDE 8" HIGH BOND BEAM WITH (2) #4 CONTINUOUS AT AND ADJACENT TO JOIST BEARING ELEVATIONS UNLESS NOTED OTHERWISE. WHERE JOIST BEARING IS NOT AT COURSING, PROVIDE PARTIAL HEIGHT BLOCK GROUDED SOLID TO TOP OF BOND BEAM. WIDTH OF BOND BEAM TO MATCH WALL THICKNESS AND IS TO RUN CONTINUOUS THROUGH CONTROL JOINTS. PROVIDE CORNER BARS WHERE THEY OCCUR AND LAP ALL BOND BEAM STEPS A MINIMUM OF 24".
- JOIST SUPPLIER TO PROVIDE CONTINUOUS TOP AND BOTTOM CHORD HORIZONTAL ANGLE BRIDGING AS REQUIRED. PROVIDE DIAGONAL X-BRIDGING WHERE INDICATED.
- PROVIDE ANGLE FRAME SUPPORT AT ALL ROOF OPENINGS IN ACCORDANCE WITH DETAIL 3/5810.
- ALL BAR JOISTS AND JOIST GIRDERS TO BE DESIGNED FOR A NET UPLIFT LOAD OF 15 PSF IN ADDITION TO GRAVITY VERTICAL LOADS REQUIRED BY THE BAR JOIST / JOIST GIRDER DESIGNATION. IN ADDITION, SUPPLIER SHALL ALSO INCLUDE THE WEIGHT OF THE ROOFTOP UNITS SHOWN ON THIS PLAN IN THE DESIGN OF JOISTS GIRDERS BY APPLYING THE PANEL POINT LOAD SHOWN ON THE PLAN (E.G. 1.9k) IN ADDITION TO THAT REQUIRED BY MEMBER DESIGNATION.
- 7A. DRIFT LOADS SHOWN ARE ALREADY IN KSP LOAD TABLE
- REFER TO SHEET S003 FOR COLUMN SCHEDULE.
- PROVIDE (2) C12 BELOW ROOFTOP UNIT CURB AND REINFORCE JOIST AS NEEDED AT CURB LOCATION IN ACCORDANCE WITH DETAILS 4/5810 AND 5/5810 (TYPICAL).
- BRACE TOP OF NON-LOAD BEARING CMU WALLS IN ACCORDANCE WITH DETAILS 11/5810 AND 12/5812.
- 1.5VLR - 16GAUGE COMPOSITE DECK, SINGLE SPAN, 2.5" TOPPING (4" TOTAL) LIGHTWEIGHT CONCRETE
- ROOF DECKING SHALL BE 1 1/2" x 20GA WIDE RIB PRIME PAINTED METAL ACOUSTICAL DECK FASTENED TO SUPPORTING STRUCTURE USING 3648 PATTERN OR ANY OF THE ATTACHMENT METHODS SHOWN IN DETAIL 19S10 WITH #10 TEK SIDELAP FASTENERS AT 18" OC. PROVIDE ACOUSTICAL DECK WITH THE FOLLOWING PROPERTIES:
THICK = 0.0358 in I = 0.201 in⁴ S_x = 0.234 in³ F_y = 33 KSI
I_y = 0.222 in⁴ S_y = 0.247 in³
- INSTALL ACOUSTICAL DECK UNDER 3 OR MORE SPAN CONDITIONS.
- RD = ROOF DRAIN - LOCATION AND SIZE TO BE COORDINATED BETWEEN GENERAL CONTRACTOR AND PLUMBING CONTRACTOR.



1 FRAMING PLAN AREA D
SCALE: 1/8" = 1'-0"

ARCHITECTURE
ENGINEERING
INTERIOR DESIGN

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JDR PROJECT NO. 19.0361

LA CRESCENT-HOKAH PUBLIC SCHOOLS
HIGH SCHOOL/ MIDDLE SCHOOL

SYMBOLS, ABBREVS & SCHEDULES - PLUMBING

Project Title: _____
Project Location: 1301 LANCER BOULEVARD
LA CRESCENT, MINNESOTA

Project No: _____
Project Date: 19014-1
3.5.2020
Drawn By: JDR
Key Plan: _____

BID DOCUMENTS

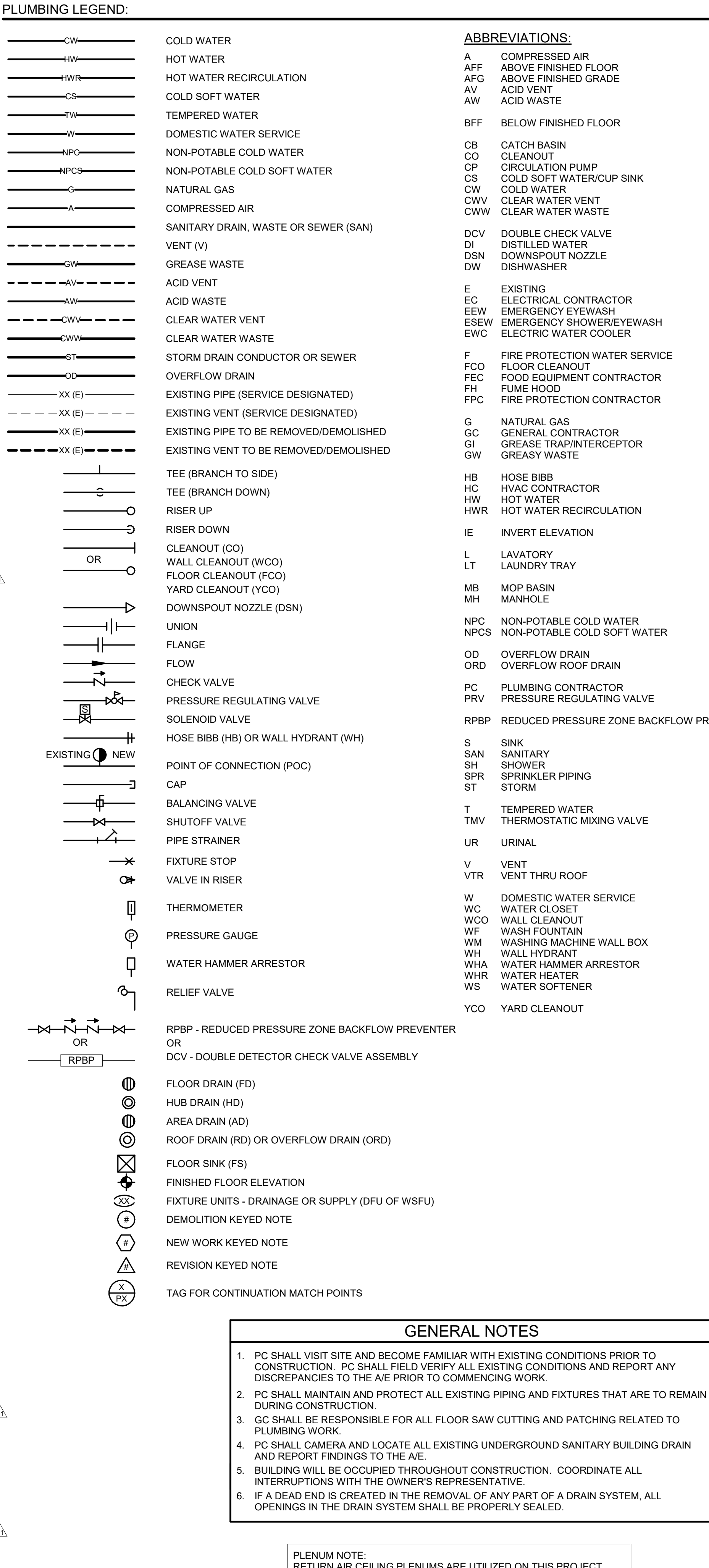
No.	Description	Date
A01	ADDENDUM 1	3.16.20

Graphic Scale: _____
Last Update: 3/16/2020 9:23:06 AM

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WATER CALCULATION WORKSHEET			
Water Calculation Worksheet For La Crescent Middle-High School/1901 Lancer Blvd, La Crescent, MN			
Information required to size water service and water distribution:			
1. Demand of building in water supply fixture units (WSFU) =	1075	(GPM) 210	
1.a. Demand of equipment requiring Gallons Per Minute:		(GPM) 5	
1.b. Total Building Demand Gallons Per Minute:		(GPM) 215	
2. Elevation difference from main or external pressure tank to building control valve, (feet):	0		
3. Size of water meter (when required) 5/8" 3/4" 1" other: X	3"		
4. Developed length from main or external pressure tank to building control valve: (feet)	150		
5. Low pressure at main in street or external pressure tank: (psi)	80		
CALCULATE WATER SERVICE PRESSURE LOSS (necessitate for internal pressure tanks)			
6. Low pressure at main in street or external pressure tank, (value of # 5 above)	80		
7. Determine pressure loss due to friction in 8" inch diameter water service. Water service piping material is Ductile Iron Pressure loss per 100 ft. = 0.04 X 1.5 (decimal equivalent of service length, i.e. 65 ft ÷ 43)		Subtotal	0.06
8. Determine pressure loss or gain due to elevation, (multiply the value of # 2 above by 434)		Subtotal	0.00
9. Available pressure after the building control valve.		Subtotal	79.94
CALCULATE THE PRESSURE AVAILABLE FOR UNIFORM LOSS (VALUE OF "A")			
B. Available pressure after the building control valve, (from "9" above)	79.94		
C. Pressure loss of water meter (when meter is required)		Subtotal	5.0
D. Pressure at controlling fixture*		Subtotal	74.94
(Controlling fixture is Emergency Shower)		Subtotal	30
*Controlling fixture is the fixture with the most demanding pressure to operate properly which includes the following when determining fixture performance: loss due to instantaneous water heaters, water treatment devices, and backflow preventers which serve the controlling fixture.		Subtotal	44.94
E. Difference in elevation between building control valve and the controlling fixture in feet: 0 X 434 psi/ft.		Subtotal	0.0
F. Pressure loss due to water treatment devices and backflow preventers which serve the controlling fixture. (Water softeners, filters, etc.) (Pressure loss due to: Water Softener)		Subtotal	15
G. Pressure loss through tankless water heaters, combination boiler / hot water heaters, heat exchangers which serve the controlling fixture: (Pressure loss due to: N/A)		Subtotal	29.94
H. Developed length from building control valve to controlling fixture in feet 525 X 1.5		Divide by value "H"	787.50
Water distribution piping is: Type L Copper		Subtotal	0.0380
A. Pressure available for uniform loss		Multiply by:	100
		Formula: $A = \frac{B-(C+D+E+F+G)}{H} \times 100$	"A" = 3.80

ID	FITURE	WASTE		WATER		NAT GAS	DETAIL / SHEET	DESCRIPTION / REMARKS
		DFU	TRAP	COLD SIZE	HOT SIZE			
EW-1	EMERGENCY EYEWASH (ADA COMPLIANT)	---	1 1/2"	1 1/2"	---	3/4"	---	FIXTURE: BRADLEY S19314PWAA18 FLOORBA MOUNTED COMBINATION EMERGENCY SHOWER AND EYEWASH/FACE WASH. PULL ROD FOR SHOWER ACTIVATION, PUSH LEVER FOR EYEWASH/FACE WASH ACTIVATION. PLASTIC BOWL WITH DUST COVER, YELLOW COATED GALVANIZED PIPE, INTEGRAL VALVE, IN-LINE STRAINER, ADA COMPLIANT. MIXING VALVE: BRADLEY NAVIGATOR S19-2100 THERMOSTATIC MIXING VALVE, MOUNT IN CEILING ABOVE FIXTURE, ANSI AND ASSE CERTIFIED. TRAP: CHROME PLATED 17 GAUGE CAST BRASS TRAP, OFFSET DRAIN.
ESEW-1	EMERGENCY SHOWER / EYEWASH (ADA COMPLIANT)	---	1 1/2"	1 1/2"	---	1 1/2"	8/P900	FIXTURE: BRADLEY S19314PWAA18 FLOORBA MOUNTED COMBINATION EMERGENCY SHOWER AND EYEWASH/FACE WASH. PULL ROD FOR SHOWER ACTIVATION, PUSH LEVER FOR EYEWASH/FACE WASH ACTIVATION. PLASTIC BOWL WITH DUST COVER, YELLOW COATED GALVANIZED PIPE, INTEGRAL VALVE, IN-LINE STRAINER, ADA COMPLIANT. MIXING VALVE: BRADLEY NAVIGATOR S19-2100 THERMOSTATIC MIXING VALVE, MOUNT IN CEILING ABOVE FIXTURE, ANSI AND ASSE CERTIFIED. TRAP: CHROME PLATED 17 GAUGE CAST BRASS TRAP, OFFSET DRAIN.
EW-2	ELECTRIC WATER COOLER H/LO WITH BOTTLE FILLER (ADA COMPLIANT)	1	1 1/4"	1 1/2"	0.25	1 1/2"	---	FIXTURE: ELKAY L2STL8WSLK WALL HUNG, H/LO ELECTRIC WATER COOLER WITH BOTTLE FILLING STATION, STAINLESS STEEL BASIN, SELF-CLOSING PUSH BUTTON VALVE CONTROLS, SELF-CONTAINED CHILLER UNDER FIXTURE, ADA COMPLIANT. TRAP & DRAIN: CHROME PLATED 17 GAUGE CAST BRASS TRAP. STOPS & SUPPLIES: McGUIRE LFBV2165CC, LOOSE KEY QUARTER TURN ANGLE STOPS WITH CHROME PLATED ESCUTCHEONS & CHROME PLATED COPPER RISER SUPPLIES. SUPPORT: MANUFACTURER'S RECOMMENDED WALL BRACKET AND COMPONENTS. FIXTURE: CUP SINK INSIDE HOOD PROVIDED BY OTHERS. FAUCET: INTEGRAL WITH HOOD PROVIDED BY OTHERS.
FH-1	FUME HOOD	0.5	1 1/4"	1 1/2"	0.5	1 1/2"	---	TRAP & DRAIN: TRAP AND TAIL PIECE TO MATCH DOWNSTREAM PIPE MATERIAL, INTEGRAL DRAIN BY SINK SUPPLIER. STOPS & SUPPLIES: McGUIRE LFBV2165CC, LOOSE KEY QUARTER TURN ANGLE STOPS WITH CHROME PLATED ESCUTCHEONS & CHROME PLATED COPPER RISER SUPPLIES. SUPPORT: MANUFACTURER'S RECOMMENDED WALL BRACKET AND COMPONENTS.
GO-1	GAS OUTLET	---	---	---	---	1 1/2"	---	FIXTURE: WATERSAVER L2880-131WSA NEEDLE VALVE ASSEMBLY, FORGED BRASS WITH CHROME FINISH, FLOATING STAINLESS STEEL NEEDLE AND REPLACEABLE STAINLESS STEEL SEAT, 3/8" MOUNTING SHANK, DECK MOUNTED SINK OUTLET, RATED FOR LABORATORY GAS, CSA AND ANSI CERTIFIED.
HB-1	HOSE BIBB	---	---	---	---	---	---	FIXTURE: WOODFORD MODEL 28-AMT-SIPHON HOSE BIBB, EXPOSED COLD WATER, INTEGRAL VACUUM BREAKER, 3/4" HOSE CONNECTION. FIXTURE: KOHLER KINGSTON K-2007 WALL HUNG LAVATORY, WHITE VITREOUS CHINA, OVERFLOW, CONCEALED FOR ARII SUPPORT, SINGLE FAUCET ROLE, ADA COMPLIANT. FAUCET: CHICAGO FAUCETS 807-E280S-66PSHAB METERING FAUCET, CAST BRASS SPOUT, PUSH HANDLE, 0.5 GPM NON-AERATING SPRAY OUTLET, SINGLE HOLE MOUNTING, CHROME FINISH, SINGLE MIXED SUPPLY, INCLUDE 131-ABNF BELOW DECK THERMOSTATIC MIXING VALVE ASSE 1070, ADA COMPLIANT.
L-1	LAVATORY (WALL HUNG)	1	1 1/4"	1 1/2"	0.5	1 1/2"	6/P900	TRAP & DRAIN: CHROME PLATED 17 GAUGE CAST BRASS TRAP, OFFSET DRAIN AND P-TRAP, WITH GRID STRAINER DRAIN. STOPS & SUPPLIES: McGUIRE LFBV2165CC, LOOSE KEY QUARTER TURN ANGLE STOPS WITH CHROME PLATED ESCUTCHEONS & CHROME PLATED COPPER RISER SUPPLIES. SUPPORT: COMMERCIAL GRADE, WALL HUNG LAVATORY SUPPORT, STEEL STANCHIONS, IRON WELDED FEET, STEEL SLEEVES, FASTEN TO FLOOR.
MB-1	MOP BASIN	3	3"	2"	2.25	3/4"	---	FIXTURE: FIAT SB2424 24"x24"x8" HIGH BASIN, ONE PIECE TERRAZZO, INTEGRAL MOLDED-IN DRAIN, 3" DRAIN CONNECTION. FAUCET: CHICAGO FAUCETS SERVICE SINK FAUCET 30S-RRCF WITH ROUGH CHROME FINISH, 3/4" MALE HOSE THREADED OUTLET, PAIL HOOK, ADJUSTABLE SUPPLY ARMS WITH INTEGRAL SERVICE STOPS AND LEVER HANDLES, PROVIDE WATTS MODEL BAC NON-REMOVABLE CHROME VACUUM BREAKER. TRAP & DRAIN: PVC P-TRAP WITH STRAINER DRAIN. ACCESSORIES: HOSE AND HOSE HOLDER 982A, AND WALL GUARD-MSG2424. FIXTURE: INTEGRAL BOWL BY OTHERS.
S-1	SINK (SCIENCE ROOM INTEGRAL BOWL)	2	1 1/2"	1 1/2"	1.5	1 1/2"	---	FAUCET: TWO (2) CHICAGO FAUCETS LWM-A1-A MANUAL LAB FAUCET, 5.25" RIGID GOOSENECK SPOUT WITH SERRATED NOZZLE, BACKFLOW PREVENTER, HOT AND COLD HANDLES WITH INDICATORS, SOLID BRASS CONSTRUCTION, SINGLE HOLE MOUNTING, CHROME FINISH. TRAP & DRAIN: ACID WASTE TRAP AND TAIL PIECE, INTEGRAL DRAIN BY SINK SUPPLIER. STOPS & SUPPLIES: McGUIRE LFBV2165CC, LOOSE KEY QUARTER TURN ANGLE STOPS WITH CHROME PLATED ESCUTCHEONS & CHROME PLATED COPPER RISER SUPPLIES.
S-2	SINK (SCIENCE ROOM SYNERGY SINK)	2	1 1/2"	1 1/2"	1.5	1 1/2"	1 1/2"	FIXTURE: SHELDON SYNERGY SINK, MOLDED EPOXY RESIN TOP WITH 19 GALLON SINK, TWO TIERED DEPTH BASIN DESIGN, CURVILINEAR SHAPE ON FRONT, ADA COMPLIANT. FAUCETS: TWO (2) SHELDON SYNERGY FAUCETS 8000-WB-BV, MANUAL FAUCETS WITH TWO (2) GAS BALL VALVES WITH BRASS HANDLES, BRASS BODY WITH EPOXY POWDER COATING, HOT AND COLD WRISTBLADE HANDLES, SINGLE HOLE MOUNTING WITH GASKETED REMOVABLE COVER ON FIXTURE BODY, BLACK FINISH, INCLUDE 820107 VACUUM BREAKER, 808007 SERRATED HOSE CONNECTION, AND BELOW DECK THERMOSTATIC MIXING VALVE ASSE 1070, ADA COMPLIANT. TRAP & DRAIN: ACID WASTE TRAP AND TAIL PIECE, INTEGRAL DRAIN BY SINK SUPPLIER. STOPS & SUPPLIES: McGUIRE LFBV2165CC, LOOSE KEY QUARTER TURN ANGLE STOPS WITH CHROME PLATED ESCUTCHEONS & CHROME PLATED COPPER RISER SUPPLIES.
S-3	SINK (SCIENCE ROOMS RINSEAWAY)	2	1 1/2"	1 1/2"	1.5	1 1/2"	---	FIXTURE: SHELDON RINSEAWAY SINK 2970, MOLDED EPOXY RESIN TOP AND SINK, 70.5"L x 24"W x 29"H OVERALL SIZE, 16"x12"x5" SINK SIZE, INTEGRAL BASE CABINET WITH DRAWERS AND DOORS, ADA COMPLIANT. FAUCETS: SHELDON SYNERGY FAUCET 80022-WB, MANUAL FAUCETS, BRASS BODY WITH EPOXY POWDER COATING, GOOSENECK SPOUTS, COLD WRISTBLADE HANDLE, SINGLE HOLE MOUNTING, CHROME FINISH, INCLUDE 820107 VACUUM BREAKER, 808007 SERRATED HOSE CONNECTION, ADA COMPLIANT. SHELDON HAND HELD SAFETY FACE/EYE DRENCH HOSE, 50000 MOUNTED NEXT TO FAUCET, INCLUDE BELOW DECK THERMOSTATIC MIXING VALVE ASSE 1070. TRAP & DRAIN: ACID WASTE TRAP AND TAIL PIECE, INTEGRAL DRAIN BY SINK SUPPLIER. STOPS & SUPPLIES: McGUIRE LFBV2165CC, LOOSE KEY QUARTER TURN ANGLE STOPS WITH CHROME PLATED ESCUTCHEONS & CHROME PLATED COPPER RISER SUPPLIES.
S-4	SINK (BREAK ROOM / CONFERENCE ROOM)	2	1 1/2"	1 1/2"	1.5	1 1/2"	---	FIXTURE: SHELDON SYNERGY FAUCET 80022-WB, MANUAL FAUCETS, BRASS BODY WITH EPOXY POWDER COATING, GOOSENECK SPOUTS, COLD WRISTBLADE HANDLE, SINGLE HOLE MOUNTING, CHROME FINISH, INCLUDE 820107 VACUUM BREAKER, 808007 SERRATED HOSE CONNECTION, ADA COMPLIANT. SHELDON HAND HELD SAFETY FACE/EYE DRENCH HOSE, 50000 MOUNTED NEXT TO FAUCET, INCLUDE BELOW DECK THERMOSTATIC MIXING VALVE ASSE 1070. TRAP & DRAIN: ACID WASTE TRAP AND TAIL PIECE, INTEGRAL DRAIN BY SINK SUPPLIER. STOPS & SUPPLIES: McGUIRE LFBV2165CC, LOOSE KEY QUARTER TURN ANGLE STOPS WITH CHROME PLATED ESCUTCHEONS & CHROME PLATED COPPER RISER SUPPLIES.
S-5	SINK (ART ROOM)	2	1 1/2"	1 1/2"	1.5	1 1/2"	---	FIXTURE: ELKAY LUSTERSTONE LRD3216M2R2 SELF-RIMMING SINK, SINGLE BOWL, 18 GAUGE TYPE 304 STAINLESS STEEL, 33"x22"x6.5" DEEP, TWO FAUCET HOLES ON 4" CENTERS, CHROME FINISH, INCLUDE BELOW DECK THERMOSTATIC MIXING VALVE ASSE 1070, ADA COMPLIANT. TRAP & DRAIN: CHROME PLATED 17 GAUGE CAST BRASS TRAP, WITH BASKET STRAINER DRAIN. STOPS & SUPPLIES: McGUIRE LFBV2165CC, LOOSE KEY QUARTER TURN ANGLE STOPS WITH CHROME PLATED ESCUTCHEONS & CHROME PLATED COPPER RISER SUPPLIES.
S-6	SINK (DOUBLE BOWL)	2	1 1/2"	1 1/2"	1.5	1 1/2"	---	FIXTURE: ELKAY LUSTERSTONE LRD3216M2R2 SELF-RIMMING SINK, DOUBLE BOWL, 18 GAUGE TYPE 304 STAINLESS STEEL, 33"x22"x6.5" DEEP OVERALL SIZE, TWO FAUCET HOLES ON 4" CENTERS WITH FAUCET CONTROLS TO RIGHT OF CENTER, ADA COMPLIANT. TRAP & DRAIN: CHROME PLATED 17 GAUGE CAST BRASS TRAP, WITH BASKET STRAINER DRAIN. STOPS & SUPPLIES: McGUIRE LFBV2165CC, LOOSE KEY QUARTER TURN ANGLE STOPS WITH CHROME PLATED ESCUTCHEONS & CHROME PLATED COPPER RISER SUPPLIES.
S-7	SINK (TRIPLE BOWL)	2	1 1/2"	1 1/2"	1.5	1 1/2"	---	FIXTURE: ELKAY LUSTERSTONE LRD3216M2R2 SELF-RIMMING SINK, DOUBLE BOWL, 18 GAUGE TYPE 304 STAINLESS STEEL, 33"x22"x6.5" DEEP OVERALL SIZE, TWO FAUCET HOLES ON 4" CENTERS WITH FAUCET CONTROLS TO RIGHT OF CENTER, ADA COMPLIANT. TRAP & DRAIN: CHROME PLATED 17 GAUGE CAST BRASS TRAP, WITH BASKET STRAINER DRAIN. STOPS & SUPPLIES: McGUIRE LFBV2165CC, LOOSE KEY QUARTER TURN ANGLE STOPS WITH CHROME PLATED ESCUTCHEONS & CHROME PLATED COPPER RISER SUPPLIES.
S-8	SINK (AUTO / MANUFACTURING)	2	1 1/2"	1 1/2"	1.5	1 1/2"	---	FIXTURE: ELKAY LUSTERSTONE LRD3216M2R2 SELF-RIMMING SINK, DOUBLE BOWL, 18 GAUGE TYPE 304 STAINLESS STEEL, 33"x22"x6.5" DEEP OVERALL SIZE, TWO FAUCET HOLES ON 4" CENTERS WITH FAUCET CONTROLS TO RIGHT OF CENTER, ADA COMPLIANT. FAUCET: KOHLER SIMPLICE K-649 MANUAL FAUCET WITH PULL DOWN SPRAY, 8" GOOSENECK SPOUT, SINGLE LEVER VOLUME AND TEMPERATURE CONTROL TO RIGHT OF SPOUT, 1.5 GPM, TWO HOLE MOUNTING WITH SPOUT CENTERED BEHIND SINK AND CONTROL TO RIGHT, CHROME FINISH, INCLUDE BELOW DECK THERMOSTATIC MIXING VALVE ASSE 1070, ADA COMPLIANT. TRAP & DRAIN: CHROME PLATED 17 GAUGE CAST BRASS TRAP, WITH BASKET STRAINER DRAIN. STOPS & SUPPLIES: McGUIRE LFBV2165CC, LOOSE KEY QUARTER TURN ANGLE STOPS WITH CHROME PLATED ESCUTCHEONS & CHROME PLATED COPPER RISER SUPPLIES.
WC-1	WATER CLOSET (ADA HEIGHT)	6	4"	2"	10 (MIN)	2"	---	FIXTURE: ELKAY XXX SELF-RIMMING SINK, TRIPLE BOWL, 18 GAUGE TYPE 304 STAINLESS STEEL, 33"x22"x6.5" DEEP OVERALL SIZE, TWO FAUCET HOLES ON 4" CENTERS WITH FAUCET CONTROLS TO RIGHT OF CENTER, ADA COMPLIANT. FAUCET: CHICAGO FAUCETS XXXXX MANUAL FAUCET, X" GOOSENECK SPOUT, SINGLE LEVER VOLUME AND TEMPERATURE CONTROL TO RIGHT OF SPOUT, 1.5 GPM, TWO HOLE MOUNTING WITH SPOUT CENTERED BEHIND SINK AND CONTROL TO RIGHT, CHROME FINISH, INCLUDE BELOW DECK THERMOSTATIC MIXING VALVE ASSE 1070, ADA COMPLIANT. TRAP & DRAIN: CHROME PLATED 17 GAUGE CAST BRASS TRAP, WITH BASKET STRAINER DRAIN. STOPS & SUPPLIES: McGUIRE LFBV2165CC, LOOSE KEY QUARTER TURN ANGLE STOPS WITH CHROME PLATED ESCUTCHEONS & CHROME PLATED COPPER RISER SUPPLIES.
WF-1	WASH FOUNTAIN (ADA HEIGHT)	2	1 1/2"	1 1/2"	1.5	1 1/2"	---	FIXTURE: BRADLEY WF3204 A STD CLC IRP TMA NSD SS-GRAY SEMI-CIRCULAR WASH FOUNTAIN, SOLID SURFACE MATERIAL COMPOSED OF BIO-RESINING 54" SEMI-CIRCLE SHAPE, INFRA-RED ELECTRONIC SPRAY WITH SOLENOID VALVE, THERMOSTATIC MIXING VALVE, PLUG-IN TRANSFORMER 120VAC / 12VDC BUILT-IN GFI OUTLET, NO SOAP DISPENSER, SCARSTONE GASKY COLOR. FAUCET: CYLINDRICAL SPRAY INTEGRAL WITH FIXTURE, INFRARED SENSORS. TRAP & DRAIN: CHROME PLATED 17 GAUGE CAST BRASS TRAP, INTEGRAL STRAINER DRAIN. STOPS & SUPPLIES: BALL VALVES UNDER FIXTURE, HARD PIPE SUPPLIES.
WH-1	WALL HYDRANT	---	---	---	---	3/4"	---	FIXTURE: WOODFORD MODEL B-47-AB, EXTERNAL FREEZELESS WALL HYDRANT, AUTOMATIC DRAINING, INTEGRAL VACUUM BREAKER, 3/4" HOSE CONNECTION, LOOSE TEE KEY, HYDRANT LENGTH TO MATCH WALL THICKNESS.
WM-1	WASHING MACHINE WALL BOX	4	2"	1 1/2"	2	1 1/2"	8/P900	FIXTURE: GUY GRAY T200TPCPCHVA WASHING MACHINE RECESSED WALL BOX, WHITE POWDER COATED FINISH, 1 1/2" QUARTER TURN HOT AND COLD VALVES, INTEGRAL WATER HAMMER ARRESTORS, 2" DRAIN OUTLET.



EXPANSION TANK SCHEDULE						
ID	MANUFACTURER MODEL #	SIZE DIA	HEIGHT	SYSTEM	VOLUME GALLON	DESCRIPTION / REMARKS
ET-1	WATTS PLT-35	16"	21.7"	DOMESTIC	14	NON-ASME CARBON STEEL THERMAL EXPANSION TANK, NSF/ANSI 61 BUTYL DIAPHRAGM, PRECHARGED, STAINLESS STEEL CONNECTION.

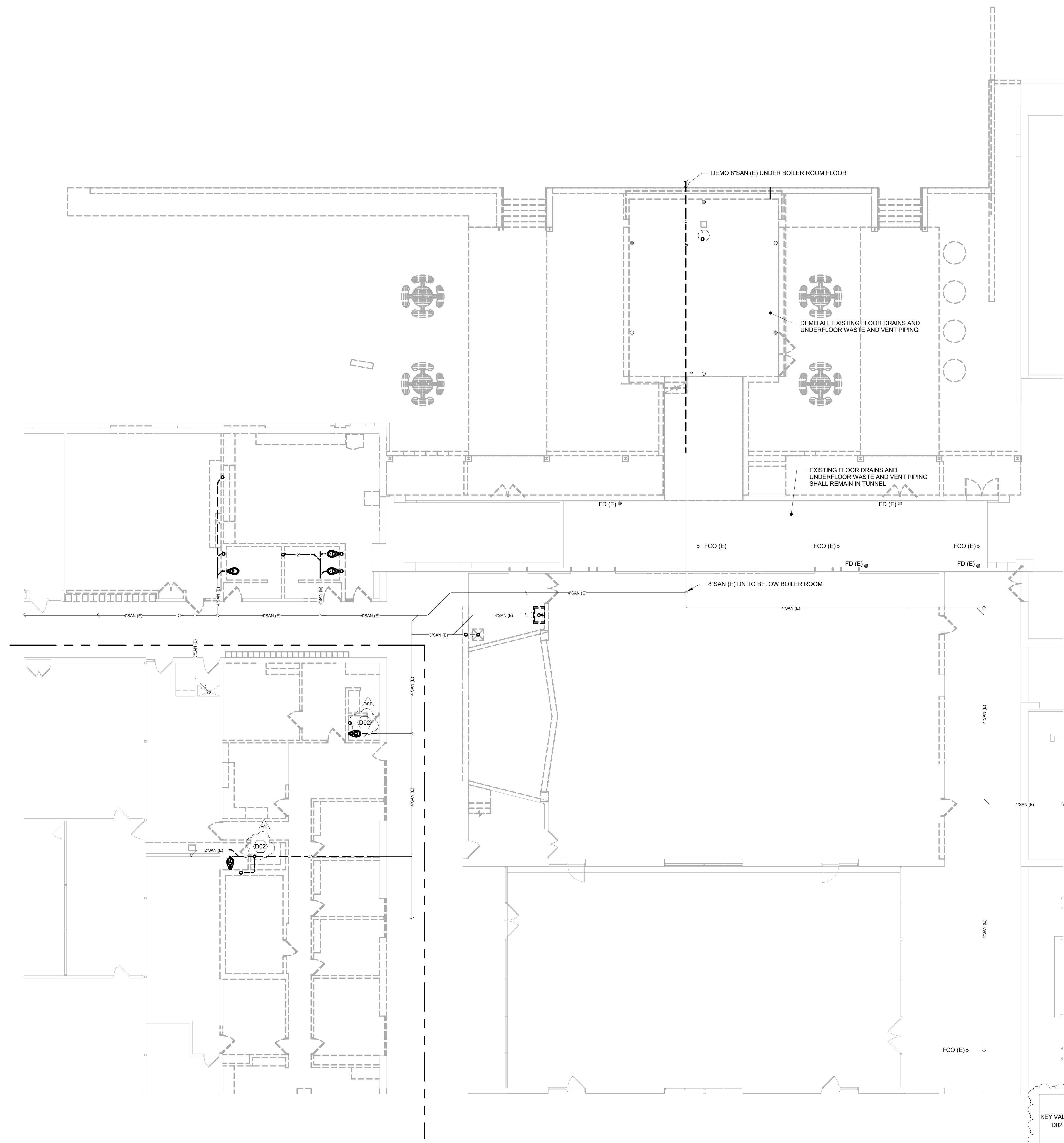
WATER SOFTENER SCHEDULE															
ID	MANUFACTURER MODEL #	ELECTRICAL AMPS	CONP VOLTS	PHASE	GPM	MAX PRESS DROP	GRAINS CAPACITY / LBS SALT	RESIN TANK STORAGE DIA	SALT STORAGE DIA	DETAIL / SHEET	DESCRIPTION / REMARKS				
WS-1	HELLENBRAND H125-128 (TRIPLEX PROGR FLOW)	120	1	66	75	15	(3) 112,000/40	(3) 16"	(3) 8.5"	(3) 4"	(3) 24"	(3) 30"	(3) 800	---	TRIPLEX PROGRESSIVE FLOW SYSTEM, 1.25" CONNECTIONS AND HISTON VALVE, 1.25" METER FOR EACH UNIT. INTERLOCKING WIRING, FULLY PROGRAMMABLE SYSTEMATE CONTROLLER, LCD DISPLAY, BATTERY BACKUP.

PLUMBING DRAIN AND CLEANOUT SCHEDULE						
ID	FITURE	WASTE DFU	TRAP	VENT	DETAIL / SHEET	DESCRIPTION / REMARKS
FD-1	FLOOR DRAIN (SQUARE)	2	2"	3"	5/P900	FIXTURE: ZURN ZN415-S, CAST IRON BODY, 8" NICKEL BRONZE "TYPE S" SQUARE STRAINER, COMBINATION INVERTIBLE MEMBRANE CLAMP, AND ADJUSTABLE COLLAR.
FD-2	FLOOR DRAIN (ROUND)	6	3"	4"	5/P900	FIXTURE: ZURN ZN508, CAST IRON BODY, 9" DIAMETER NICKEL BRONZE TOP, SEEPAGE PAN, COMBINATION MEMBRANE FLASHING CLAMP & FRAME, AND HEAVY DUTY DEEP FLANGE, SLOTTED GRATE.
FD-3	FLOOR DRAIN (SQUARE, ACID RESISTANT)	2	2"	2"	5/P900	FIXTURE: ZURN ZN415-S-AR, CAST IRON BODY, 8" NICKEL BRONZE "TYPE S" SQUARE STRAINER, ACID RESISTING EPOXY COATED COMBINATION INVERTIBLE
TD-1	TRENCH DRAIN	8	4"	2"	7/P900	FIXTURE: ZURN ZF906-HDS-E1-U4-DSC, MODEL 1002, 12 FOOT TRENCH DRAIN, 6" WIDE WITH 4" THROAT, MODULAR FRP, BUILT IN 0.75% SLOPE, HEAVY DUTY STAINLESS STEEL FRAME, DUCTILE IRON SLOTTED GRATE.
HD-1	HUB DRAIN - AT GRADE	4	2"	1 1/2"	---	EXTEND HUB 1" AFF (MIN), INSTALL PIPE INCREASER ONE PIPE SIZE LARGER MINIMUM.
BD-1	ROOF DRAIN	---	---	---	---	FIXTURE: ZURN ZC100-C-EAR ROOF DRAIN, CAST IRON BODY, 15" DIA, COMBINATION MEMBRANE FLASHING CLAMP/RAVEL GUARD, UNDERDECK CLAMP, ADJUSTABLE EXTENSION, ROOF SUMP RECEIVER, AND CAST IRON



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JDR PROJECT NO. 19.0361



**LA CRESCENT-HOKAH PUBLIC SCHOOLS
HIGH SCHOOL/ MIDDLE SCHOOL
UNDERFLOOR REMOVAL PLAN - PLUMBING - AREA A**

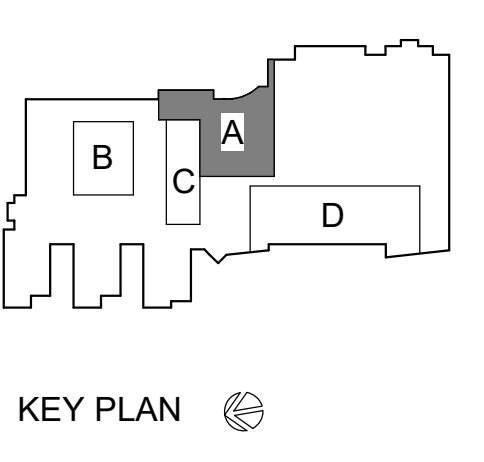
Project Title:
Project Location: 1301 LANCER BOULEVARD
LA CRESCENT, MINNESOTA

HSR Project Number:
19014-1

Project Date:
3.5.2020

Drawn By:
JDR

Key Plan:



KEY PLAN

**BID
DOCUMENTS**

No.	Description	Date
A01	ADDENDUM 1	3.16.20

Graphic Scale:
0' 2' 4' 8' 12'

Last Update:
3/16/2020 9:27:59 AM

KEY VALUE	KEYNOTE TEXT
D02	DEMOLISH EXISTING UNDERFLOOR PIPING IN AREA, CAP, ABANDON/REUSE AS SHOWN. NOT ALL WASTE AND VENT PIPING TO BE DEMOLISHED IS SHOWN, CONTRACTOR SHALL LOCATE. CAP EXISTING UNUSED SERVICES AND ABANDON.

1 UNDERFLOOR REMOVAL PLAN - PLUMBING - AREA A
P091 SCALE: 1/8" = 1'-0"



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JDR PROJECT NO. 19.0361

Project Title:
**LA CRESCENT-HOKAH PUBLIC SCHOOLS
HIGH SCHOOL/ MIDDLE SCHOOL
UNDERFLOOR REMOVAL PLAN - PLUMBING - AREA B & C**

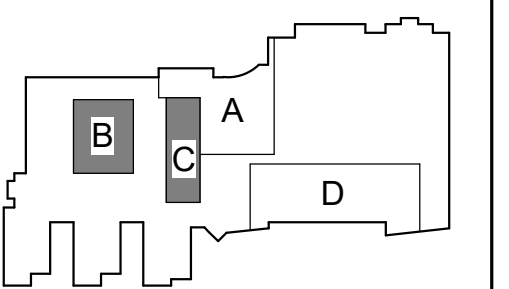
Project Location: 1301 LANCER BOULEVARD
LA CRESCENT, MINNESOTA

HSR Project Number:
19014-1

Project Date:
3.5.2020

Drawn By:
JDR

Key Plan:



KEY PLAN

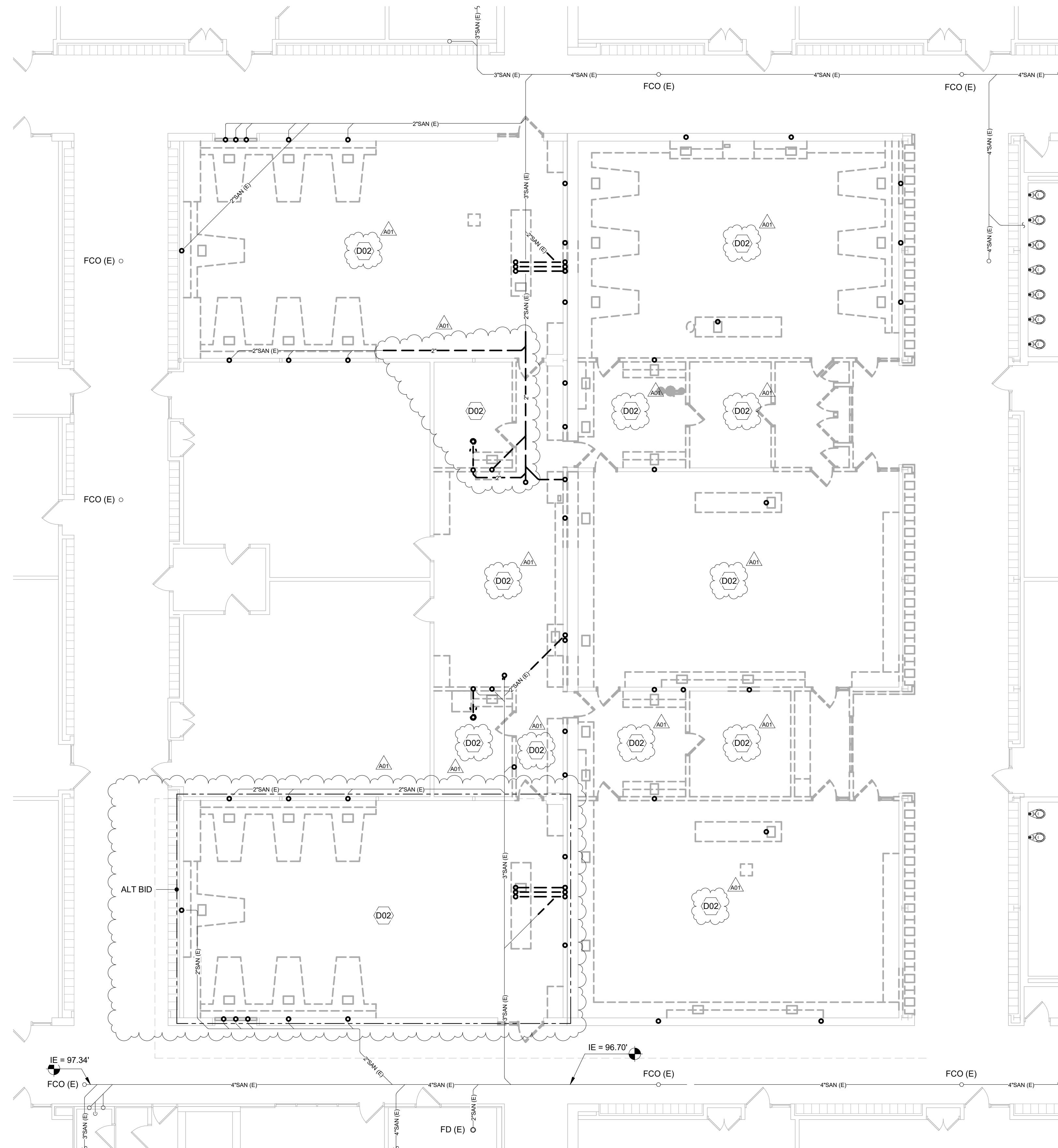
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DOCUMENTS**

No.	Description	Date
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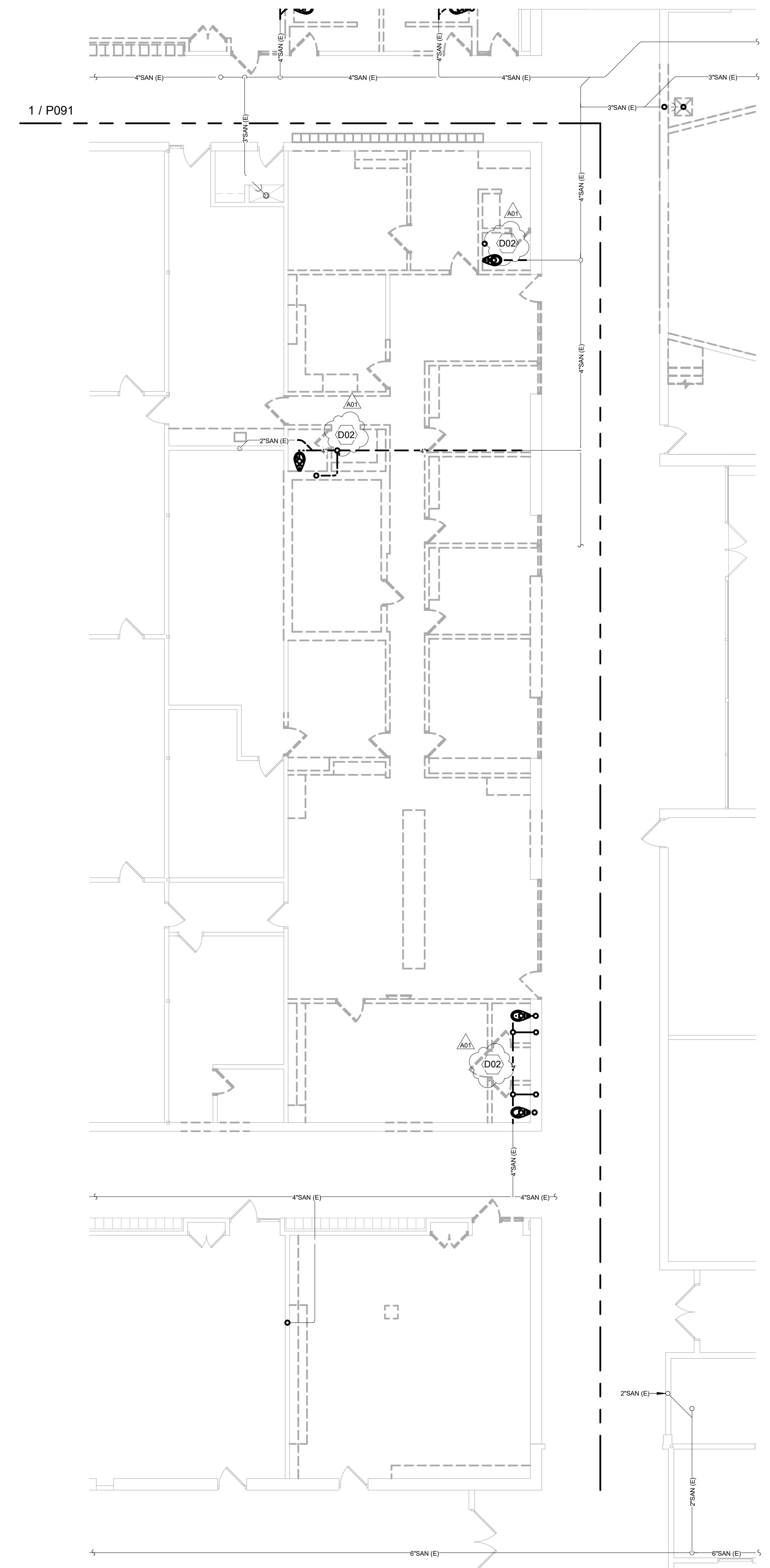
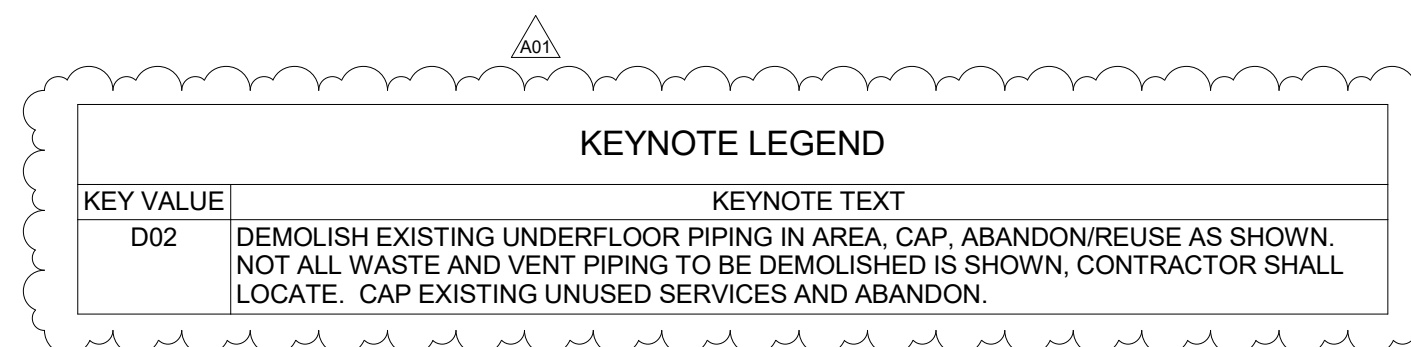
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Last Update:
3/16/2020 9:28:08 AM

P093



1
P093 UNDERFLOOR REMOVAL PLAN - PLUMBING - AREA B
SCALE: 1/8" = 1'-0"



2
P093 UNDERFLOOR REMOVAL PLAN - PLUMBING - AREA C
SCALE: 1/8" = 1'-0"



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JDR PROJECT NO. 19.0361

Project Title:
**LA CRESCENT-HOKAH PUBLIC SCHOOLS
HIGH SCHOOL/ MIDDLE SCHOOL**

Project Location:
1301 LANCER BOULEVARD
LA CRESCENT, MINNESOTA

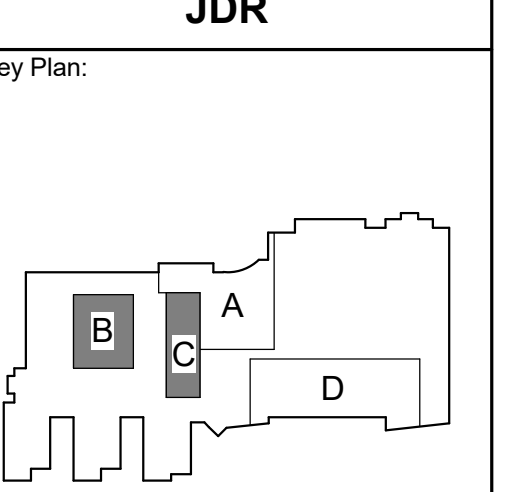
Sheet Title:
FIRST FLOOR REMOVAL PLAN - PLUMBING - AREA B & C

HSR Project Number:
19014-1

Project Date:
3.5.2020

Drawn By:
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Key Plan:



KEY PLAN

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DOCUMENTS**

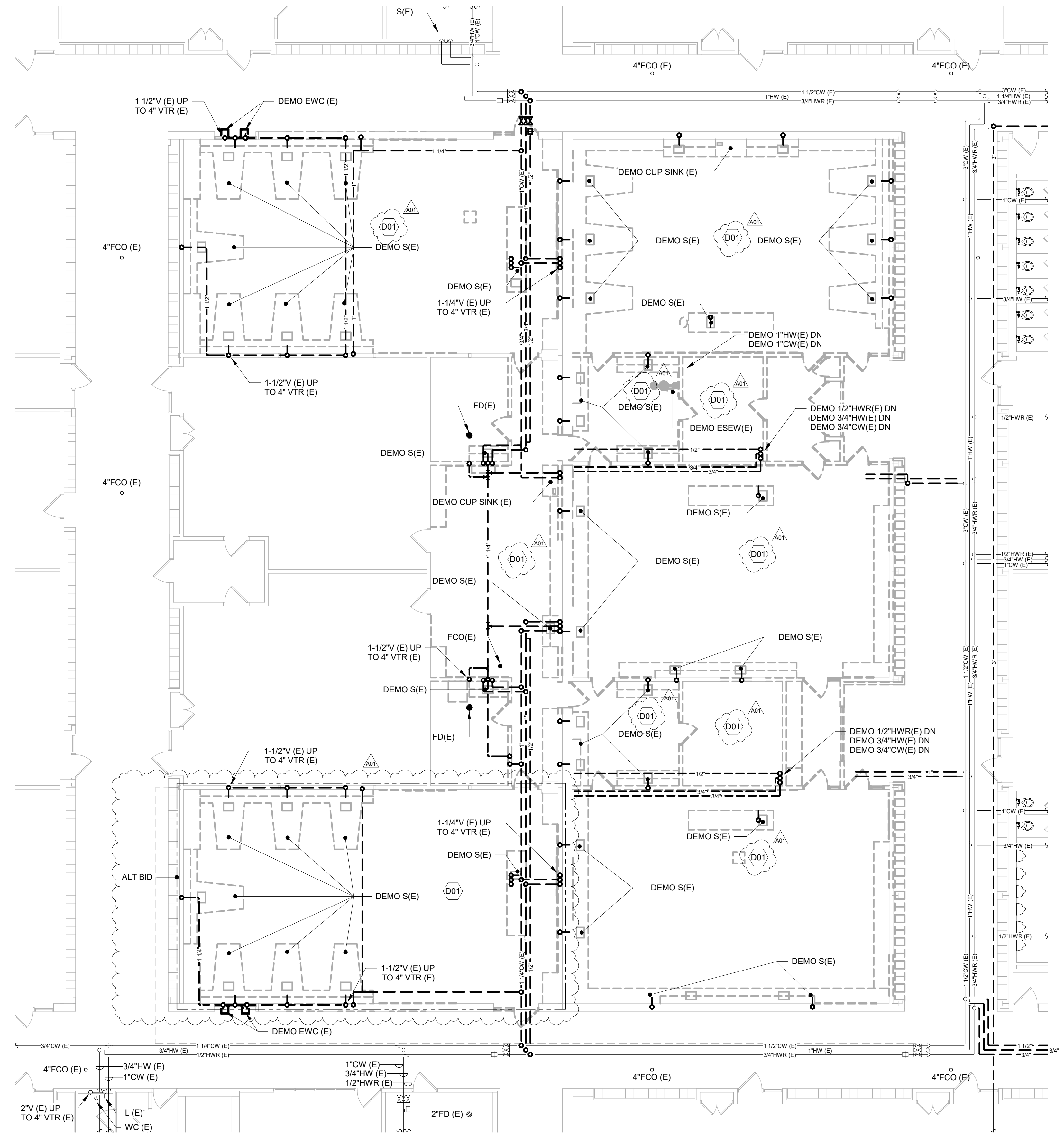
Revisions:

No.	Description	Date
A01	ADDENDUM 1	3.16.20

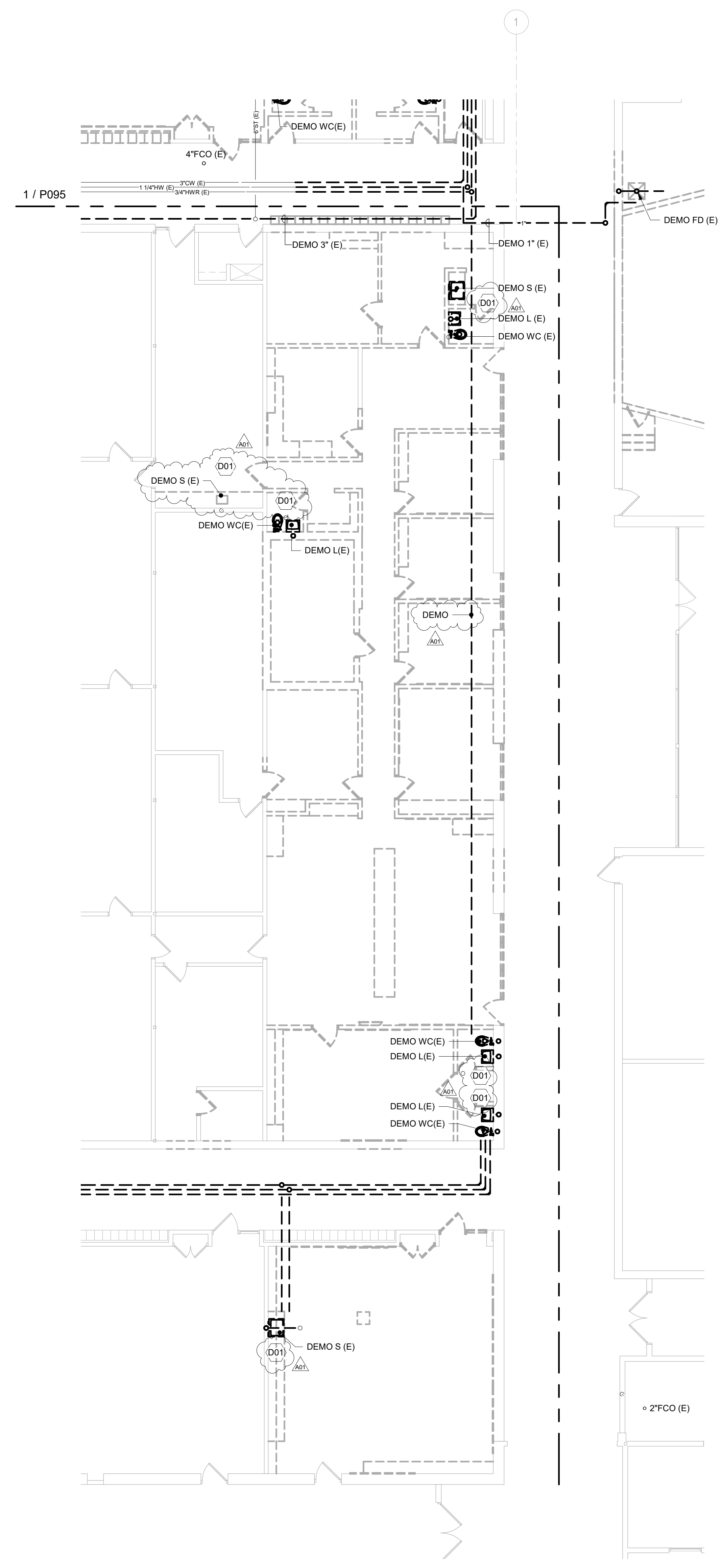
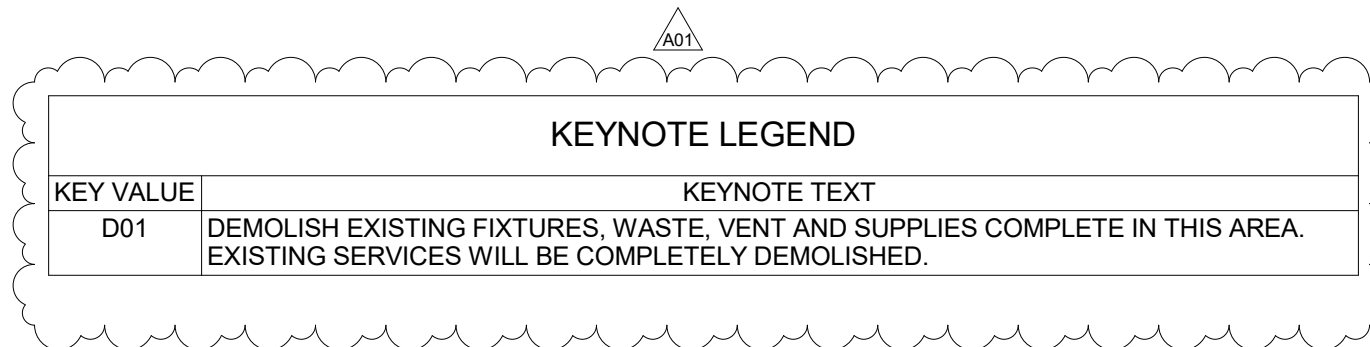
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Last Update:
3/16/2020 9:26:55 AM

P096



1 FIRST FLOOR REMOVAL PLAN - PLUMBING - AREA B
SCALE: 1/8\"/>

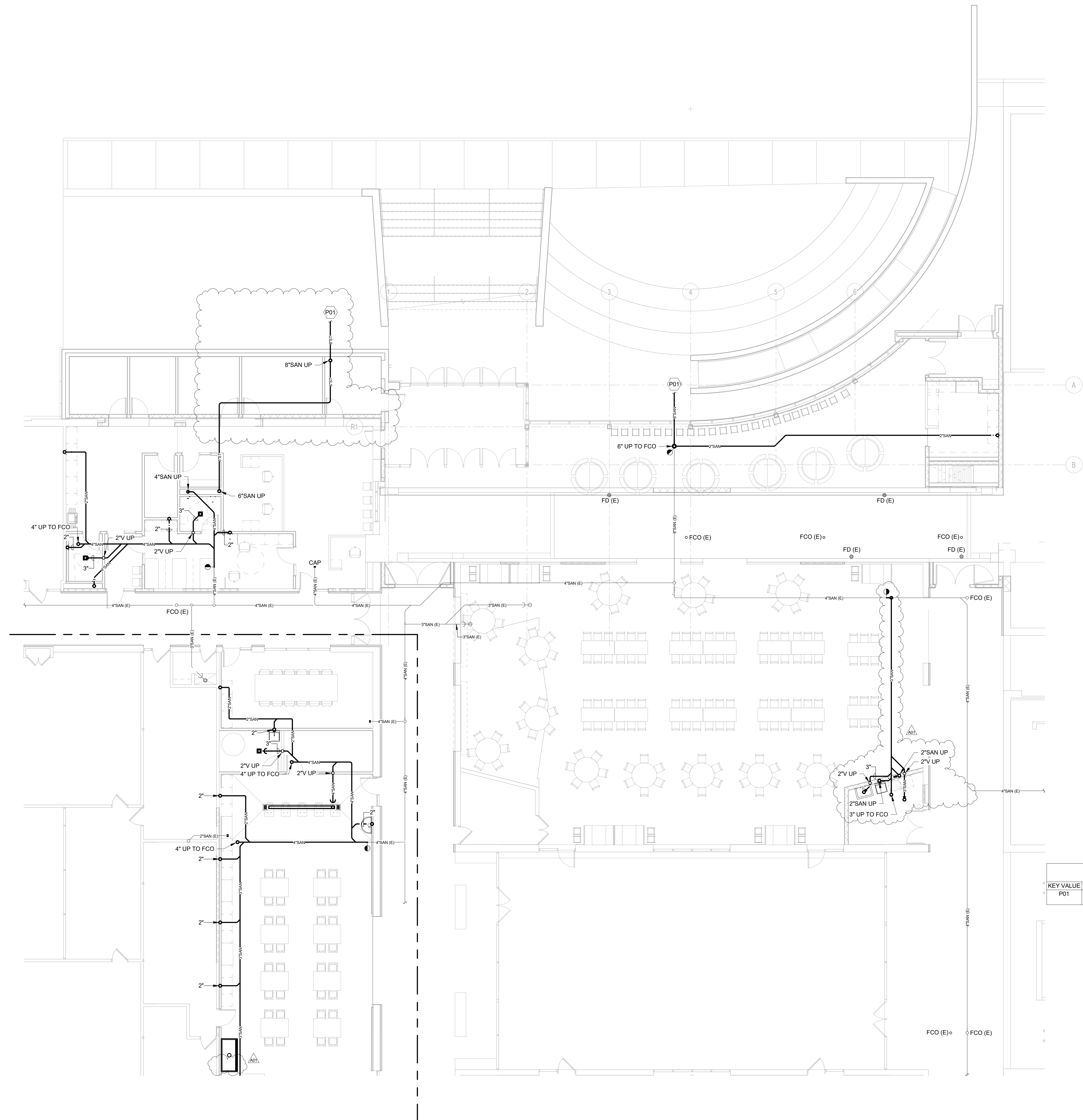


2 FIRST FLOOR REMOVAL PLAN - PLUMBING - AREA C
SCALE: 1/8\"/>



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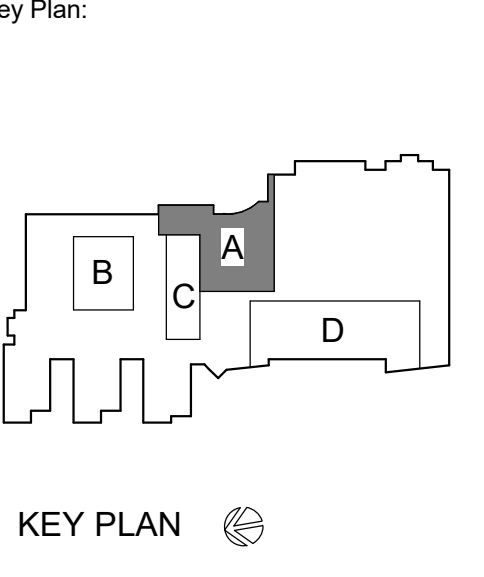
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JDR PROJECT NO. 19.0361



KEY VALUE	KEYNOTE TEXT
P01	PC SHALL INSTALL SERVICE TO 5'-0" OUTSIDE OF BUILDING STRUCTURE, CONTINUATION BY SITE UTILITY CONTRACTOR.

Project Title: **LA CRESCENT-HOKAH PUBLIC SCHOOLS
HIGH SCHOOL/ MIDDLE SCHOOL**
Project Location: **1301 LANCER BOULEVARD
LA CRESCENT, MINNESOTA**
Sheet Title: **UNDERFLOOR PLAN - PLUMBING - AREA A**

HSR Project Number: **19014-1**
Project Date: **3.5.2020**
Drawn By: **JDR**



**BID
DOCUMENTS**

No.	Description	Date
A01	ADDENDUM 1	3.16.20

Graphic Scale: **VARIES**
Last Update: **3/16/2020 9:28:32 AM**

1
P101 UNDERFLOOR PLAN - PLUMBING - AREA A
SCALE: 1/8" = 1'-0"

P101



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**LA CRESCENT-HOKAH PUBLIC SCHOOLS
HIGH SCHOOL/ MIDDLE SCHOOL
UNDERFLOOR PLAN - PLUMBING - AREA B & C**

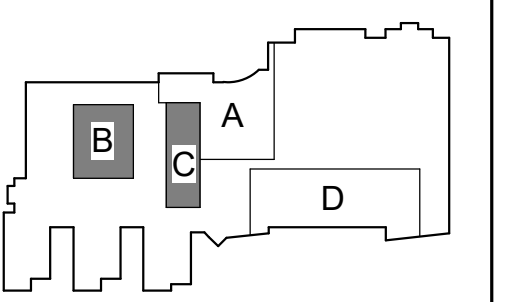
Project Title:
Project Location: 1301 LANCER BOULEVARD
LA CRESCENT, MINNESOTA

HSR Project Number:
19014-1

Project Date:
3.5.2020

Drawn By:
JDR

Key Plan:



KEY PLAN

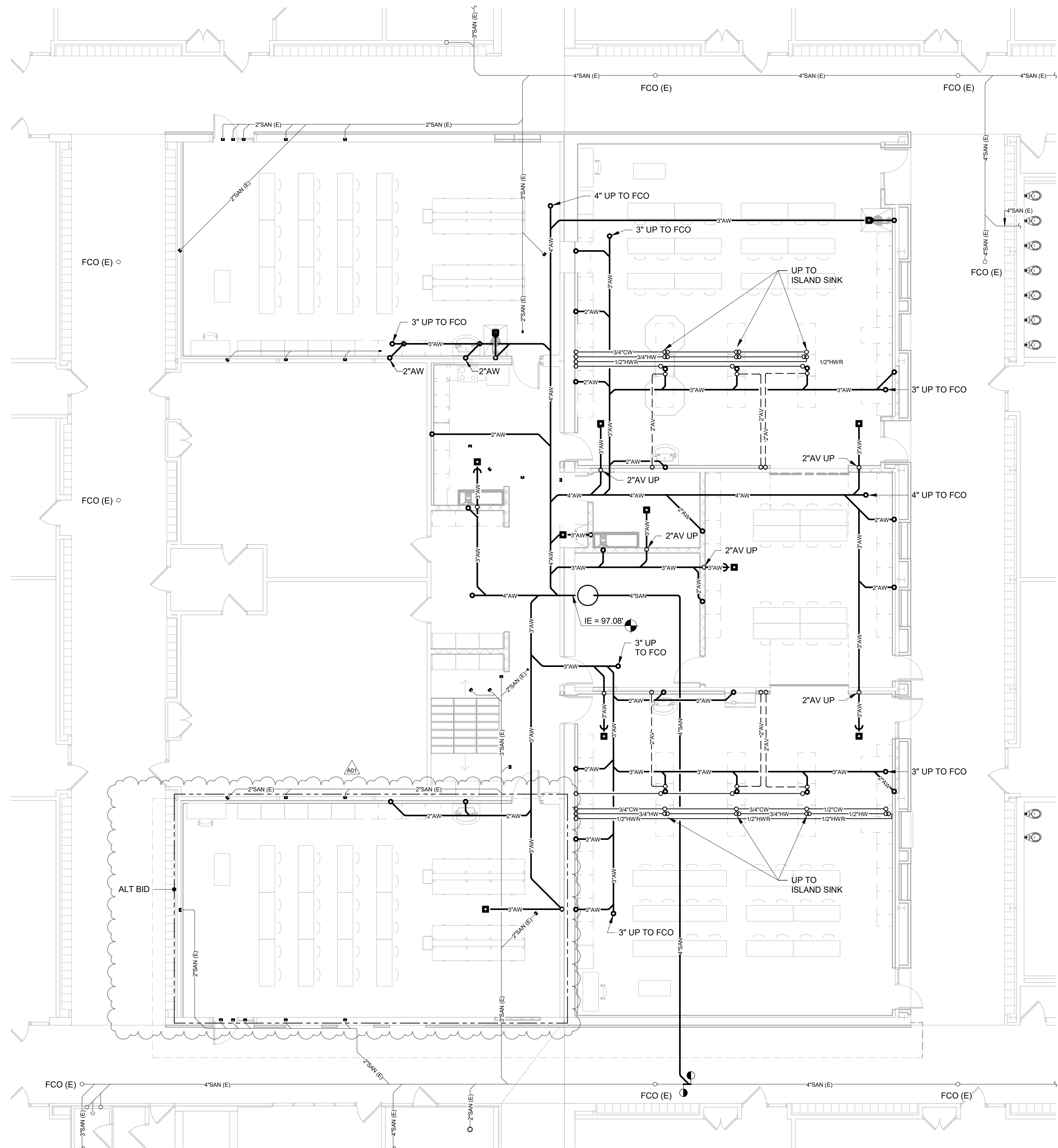
**BID
DOCUMENTS**

No.	Description	Date
A01	ADDENDUM 1	3.16.20

Graphic Scale:
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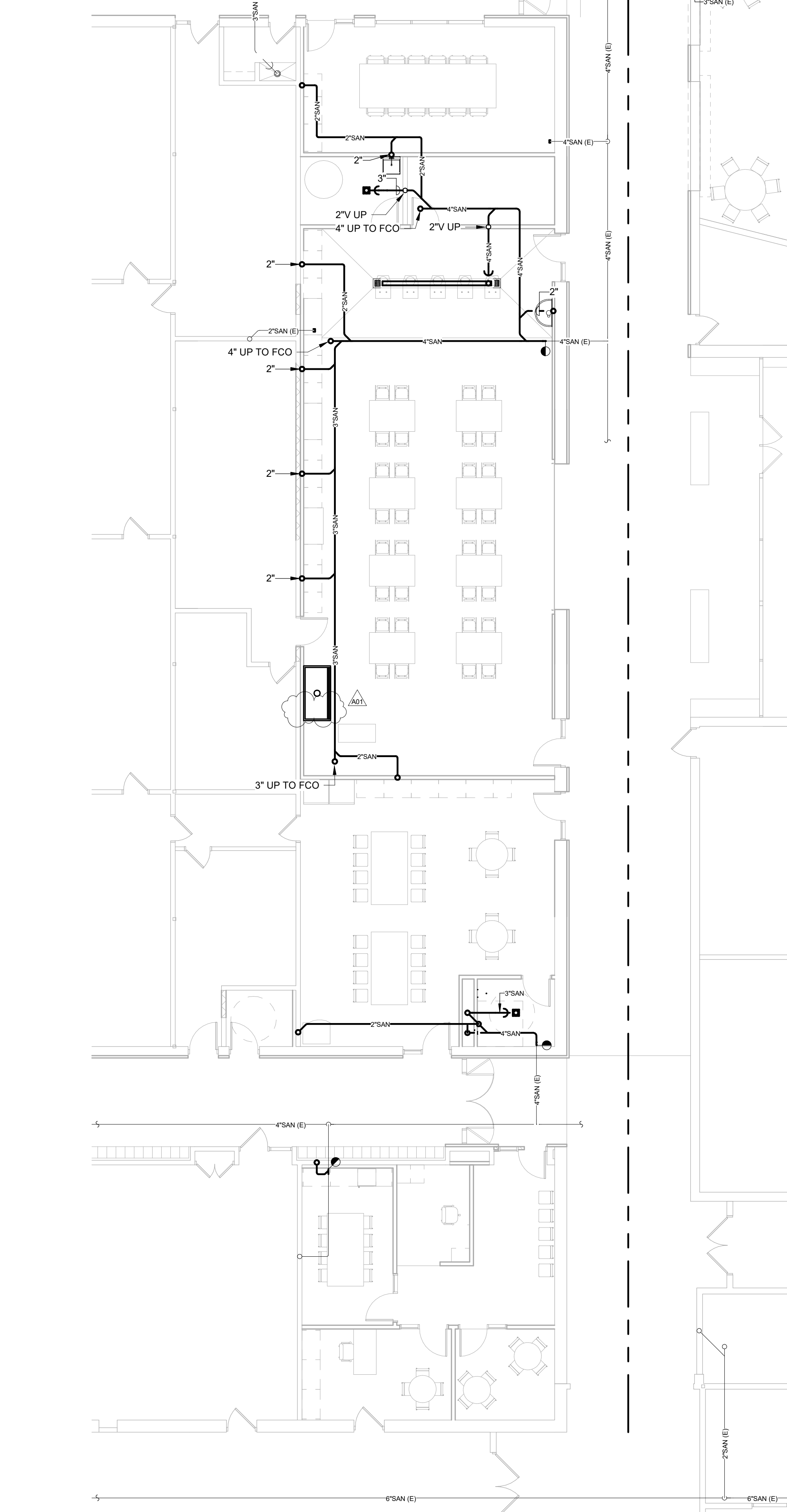
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P103

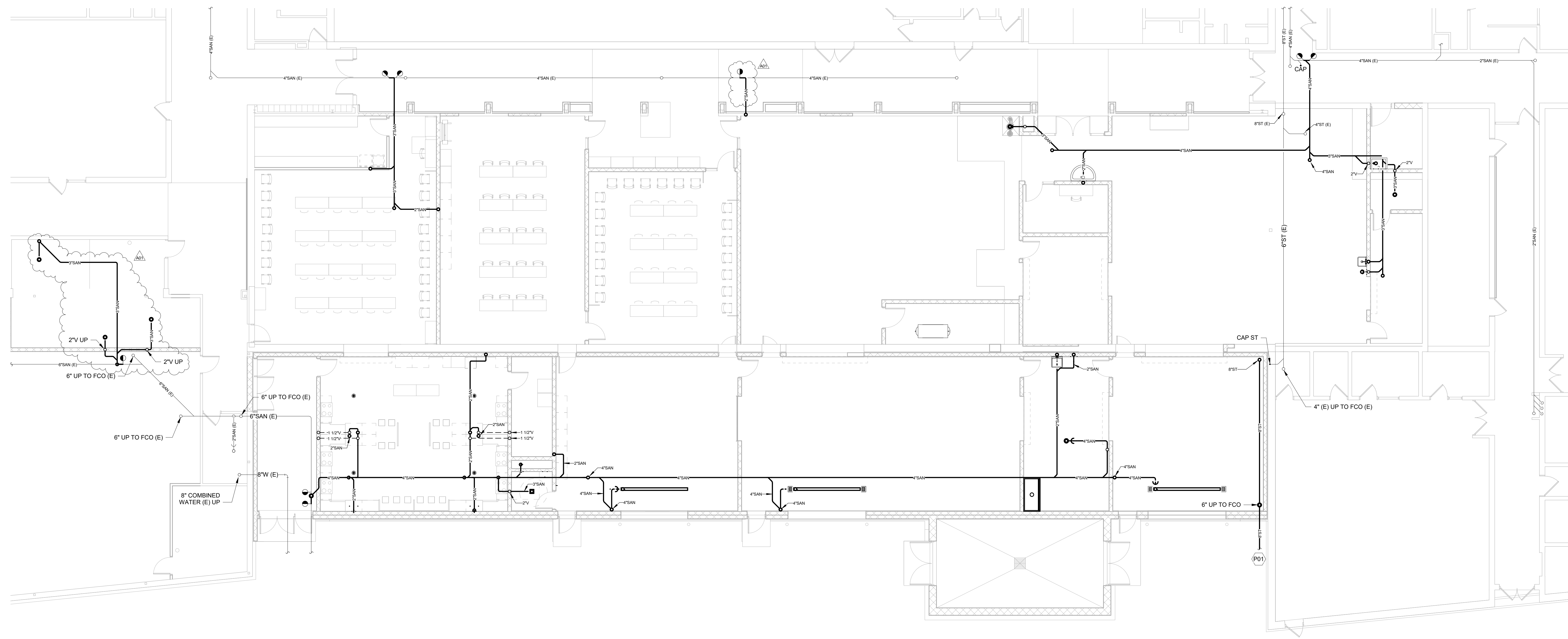


1 UNDERFLOOR PLAN - PLUMBING - AREA B
SCALE: 1/8" = 1'-0"

1 / P101



2 UNDERFLOOR PLAN - PLUMBING - AREA C
SCALE: 1/8" = 1'-0"



1
P104 UNDERFLOOR PLAN - PLUMBING - AREA D
SCALE: 1/8" = 1'-0"

KEYNOTE LEGEND	
KEY VALUE	KEYNOTE TEXT
P01	PC SHALL INSTALL SERVICE TO 5'-0" OUTSIDE OF BUILDING STRUCTURE, CONTINUATION BY SITE UTILITY CONTRACTOR.



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JDR PROJECT NO. 19.0361

Project Title:
**LA CRESCENT-HOKAH PUBLIC SCHOOLS
HIGH SCHOOL/ MIDDLE SCHOOL
UNDERFLOOR PLAN - PLUMBING - AREA D**

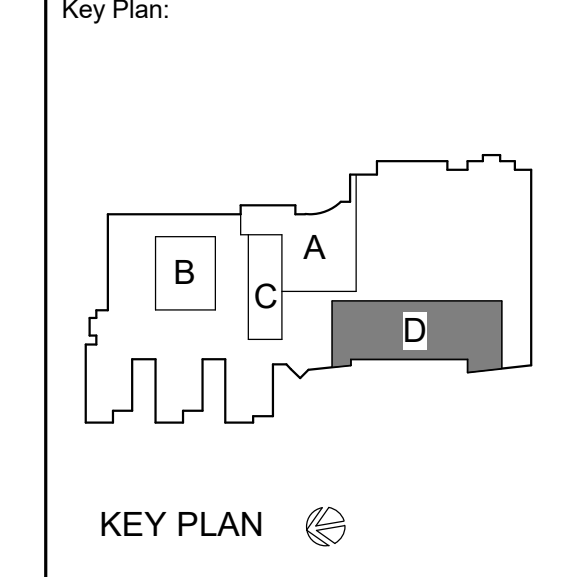
Project Location:
1301 LANCER BOULEVARD
LA CRESCENT, MINNESOTA

Sheet Title:

HSR Project Number:
19014-1

Project Date:
3.5.2020

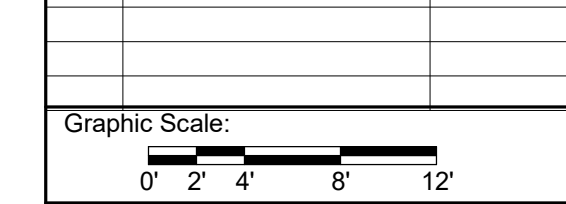
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DOCUMENTS**

Revisions:

No.	Description	Date
A01	ADDENDUM 1	3.16.20



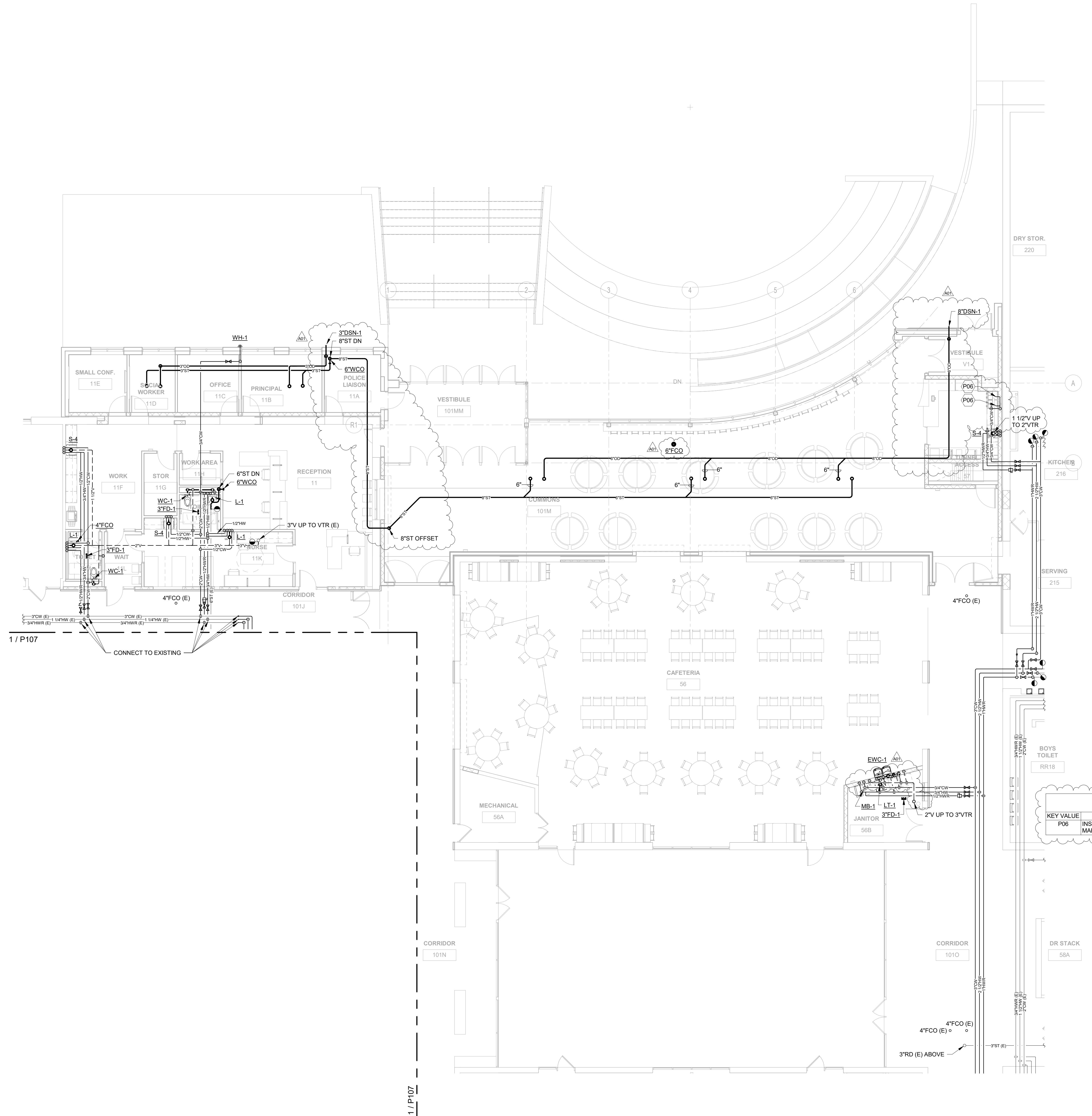
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3/16/2020 9:47:52 AM

P104



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JDR PROJECT NO. 19.0361



**LA CRESCENT-HOKAH PUBLIC SCHOOLS
HIGH SCHOOL/ MIDDLE SCHOOL
FIRST FLOOR PLAN - PLUMBING - AREA A**

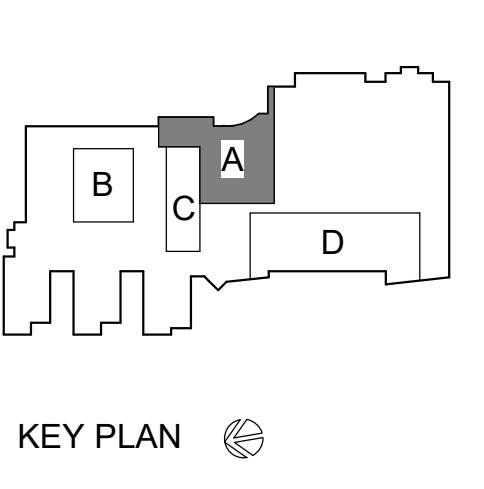
Project Title:
Project Location: 1301 LANCER BOULEVARD
LA CRESCENT, MINNESOTA
Sheet Title:

HSR Project Number:
19014-1

Project Date:
3.5.2020

Drawn By:
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Key Plan:



KEYNOTE LEGEND

KEY VALUE	KEYNOTE TEXT
P06	INSTALL 1/2\"/>

**BID
DOCUMENTS**

Revisions:

No.	Description	Date
A01	ADDENDUM 1	3.16.20

Graphic Scale:
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3/16/2020 9:27:12 AM



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JDR PROJECT NO. 19.0361

**LA CRESCENT-HOKAH PUBLIC SCHOOLS
HIGH SCHOOL/ MIDDLE SCHOOL
FIRST FLOOR PLAN - PLUMBING - AREA B & C**

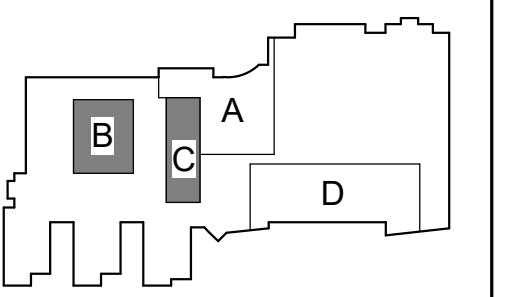
Project Title:
Project Location: 1301 LANCER BOULEVARD
LA CRESCENT, MINNESOTA

Project Number:
19014-1

Project Date:
3.5.2020

Drawn By:
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Key Plan:



KEY PLAN

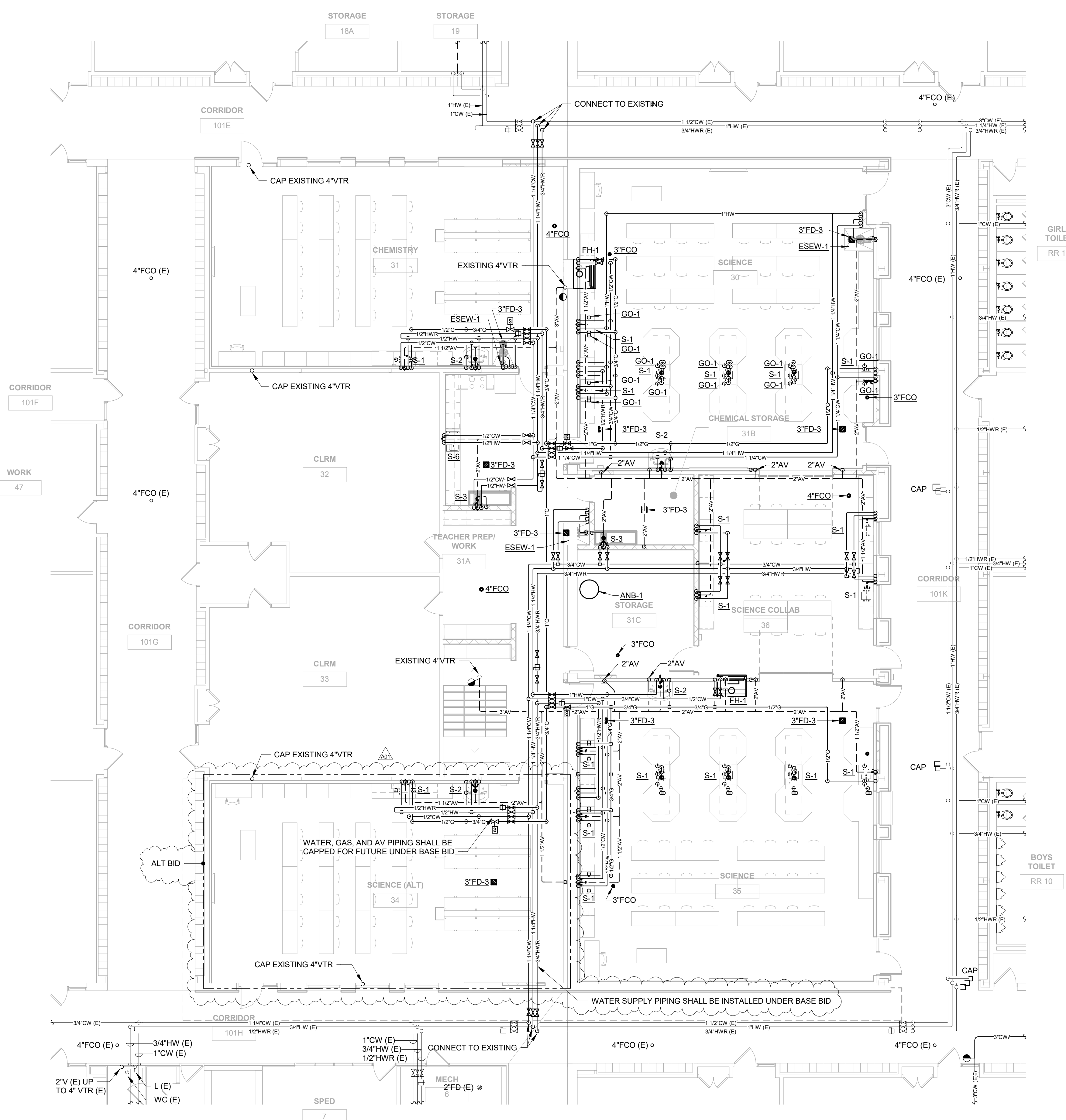
**BID
DOCUMENTS**

No.	Description	Date
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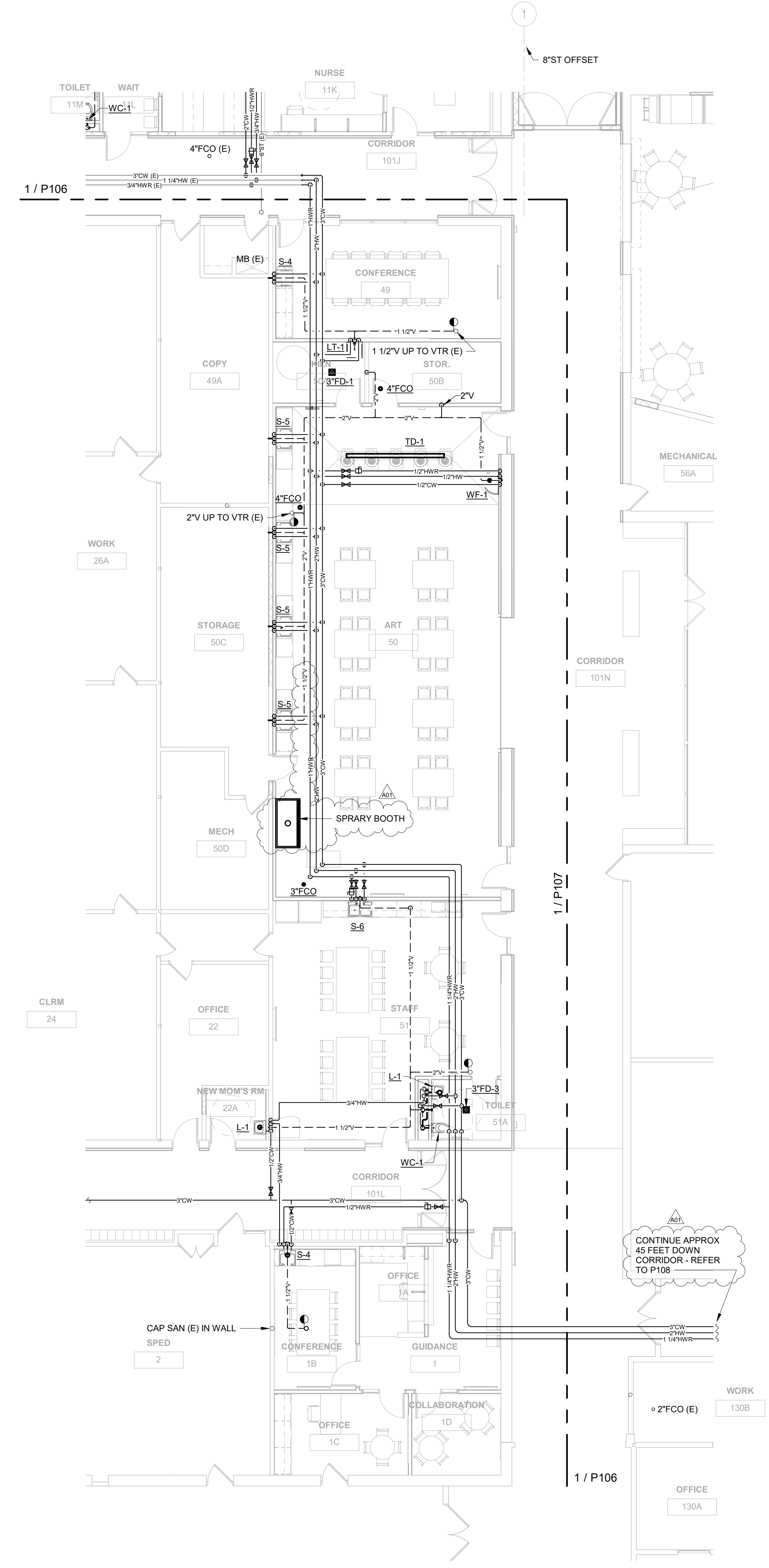
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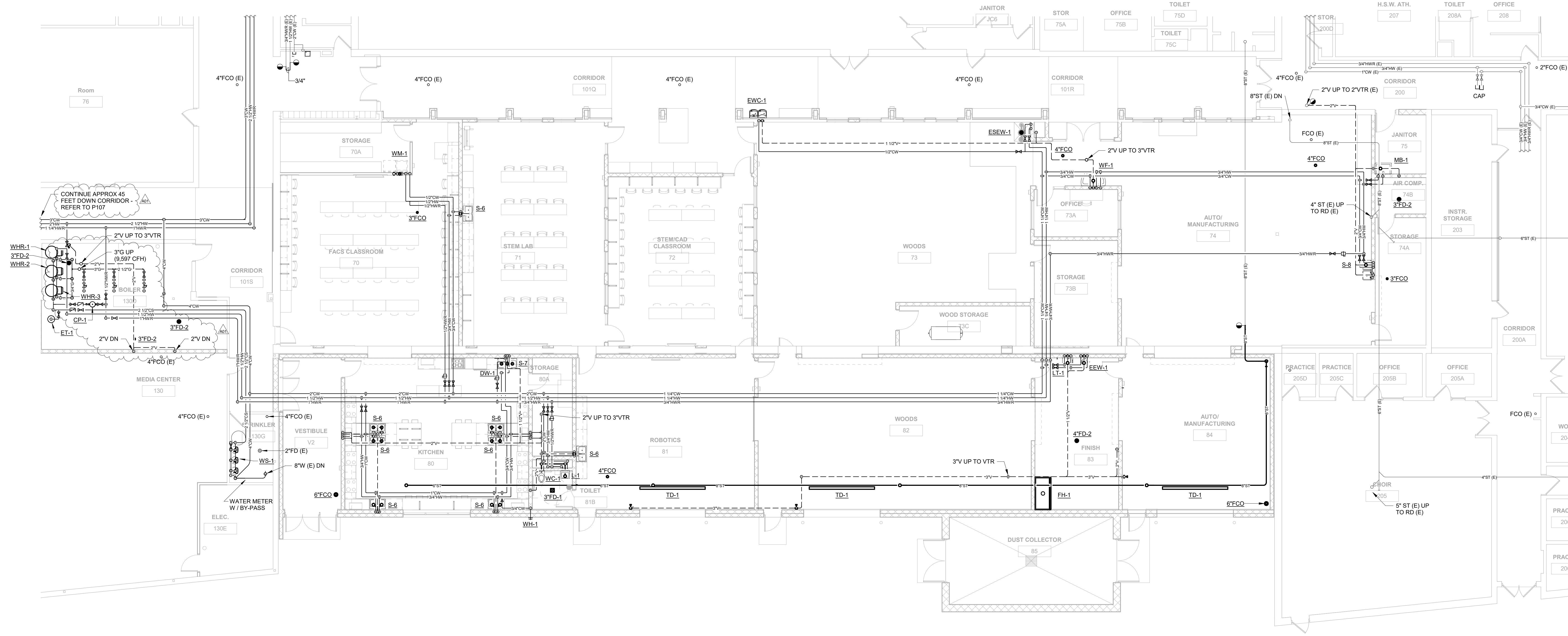
P107



1
P107
SCALE: 1/8" = 1'-0"



2
P107
SCALE: 1/8" = 1'-0"



1 FIRST FLOOR PLAN - PLUMBING - AREA D
 P108 SCALE: 1/8" = 1'-0"



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Project Title:
**LA CRESCENT-HOKAH PUBLIC SCHOOLS
 HIGH SCHOOL/ MIDDLE SCHOOL
 FIRST FLOOR PLAN - PLUMBING - AREA D**

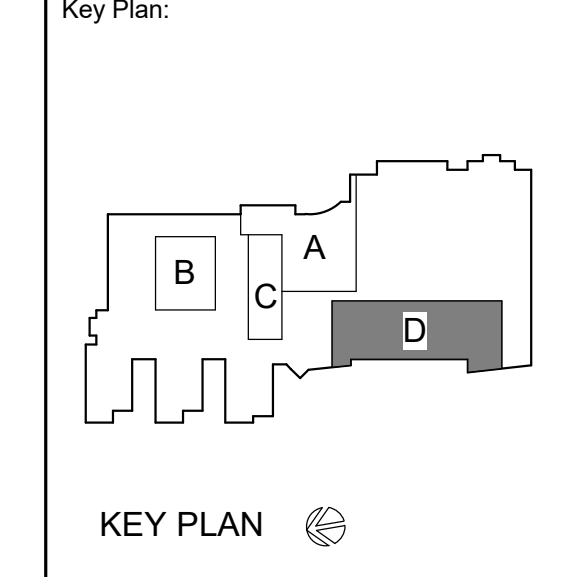
Project Location:
 1301 LANCER BOULEVARD
 LA CRESCENT, MINNESOTA

Sheet Title:

HSR Project Number:
19014-1

Project Date:
3.5.2020

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 DOCUMENTS**

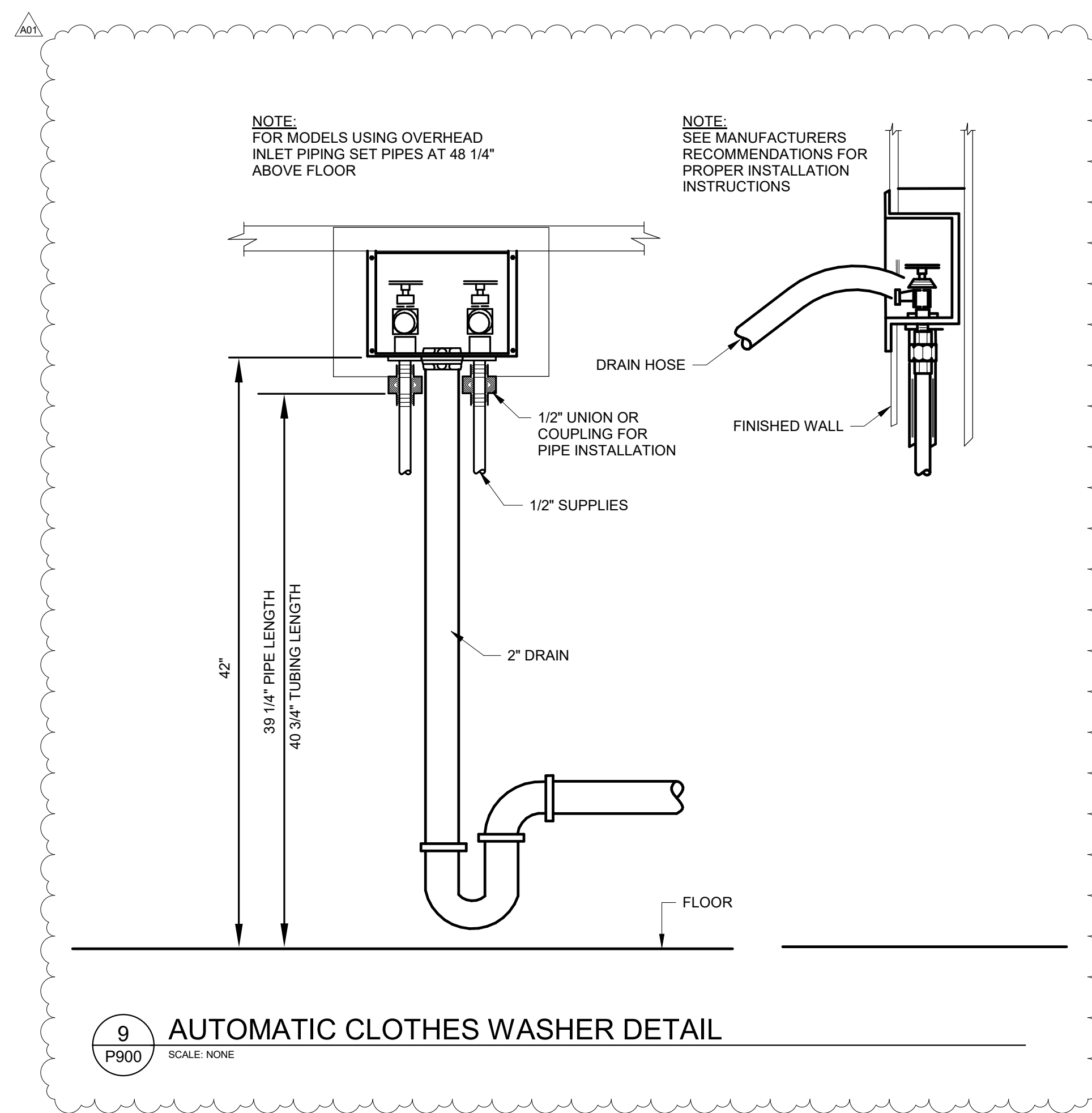
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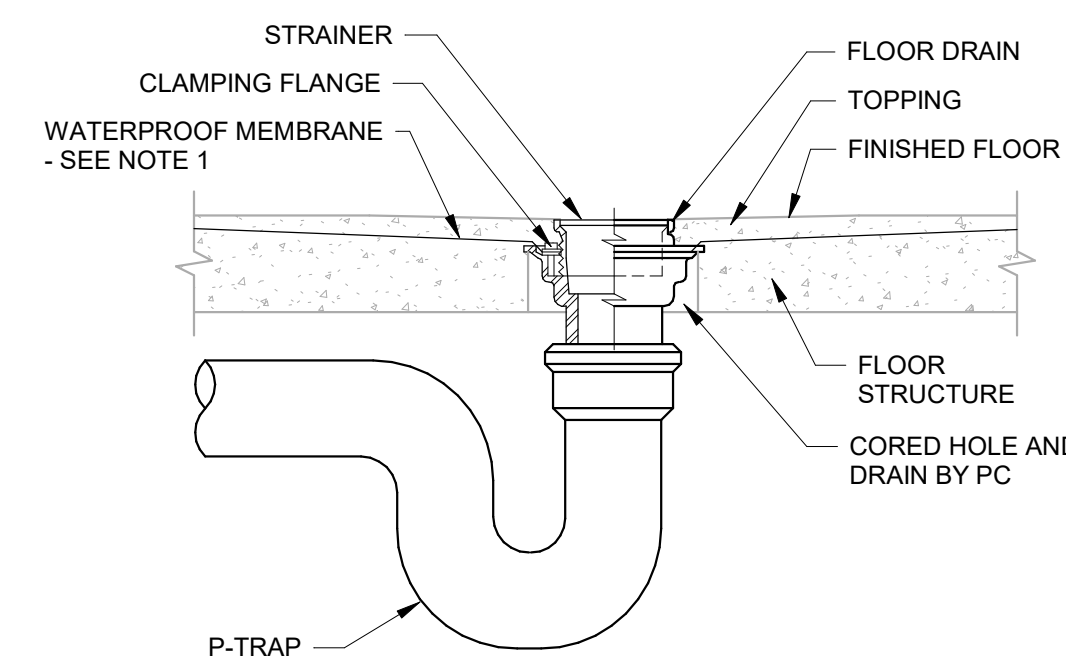
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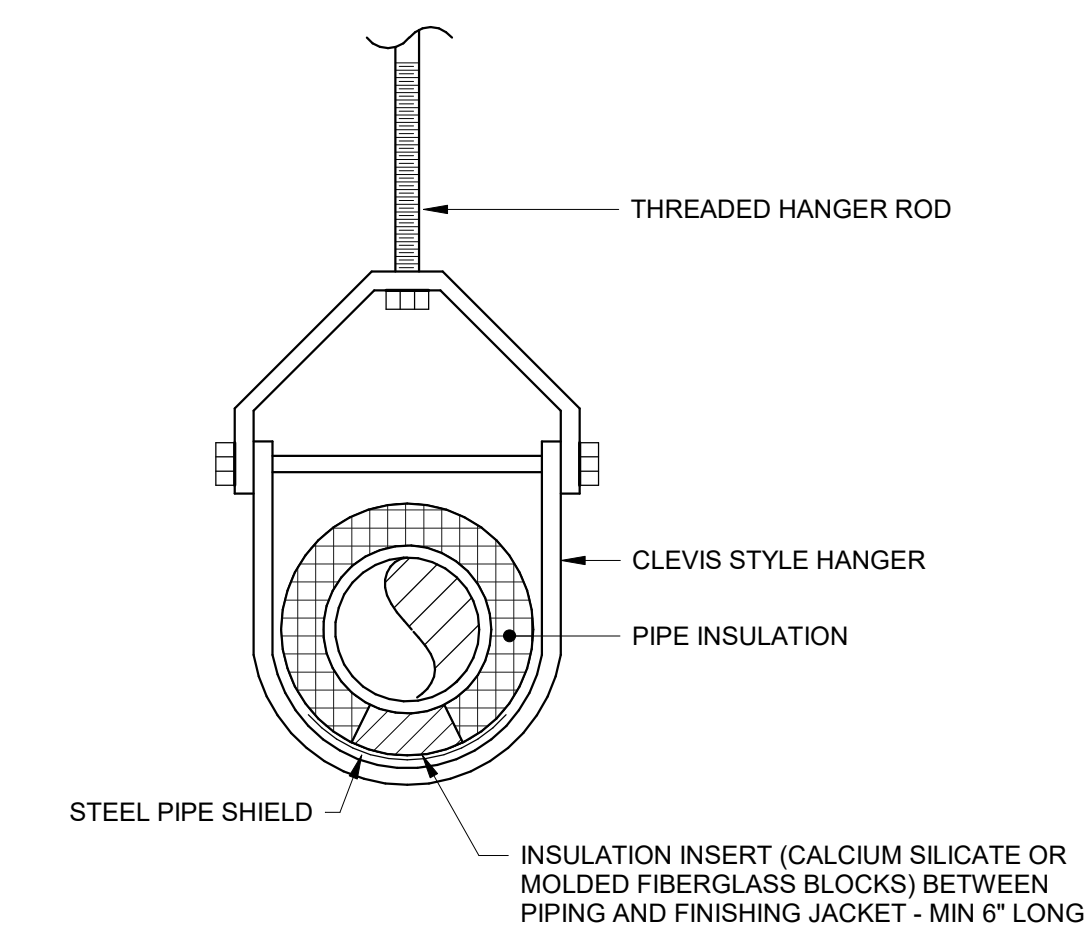
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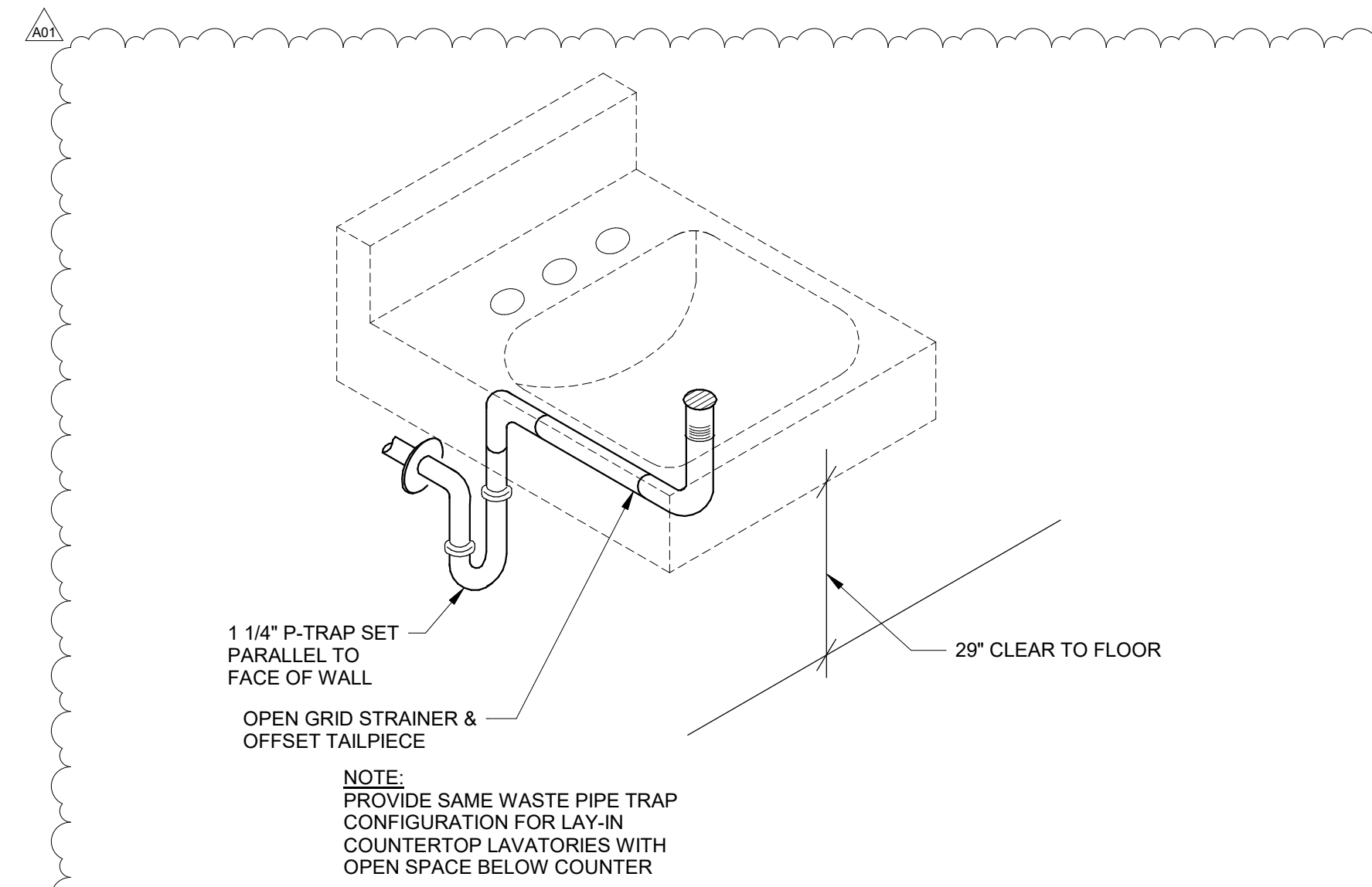
9 AUTOMATIC CLOTHES WASHER DETAIL
SCALE: NONE



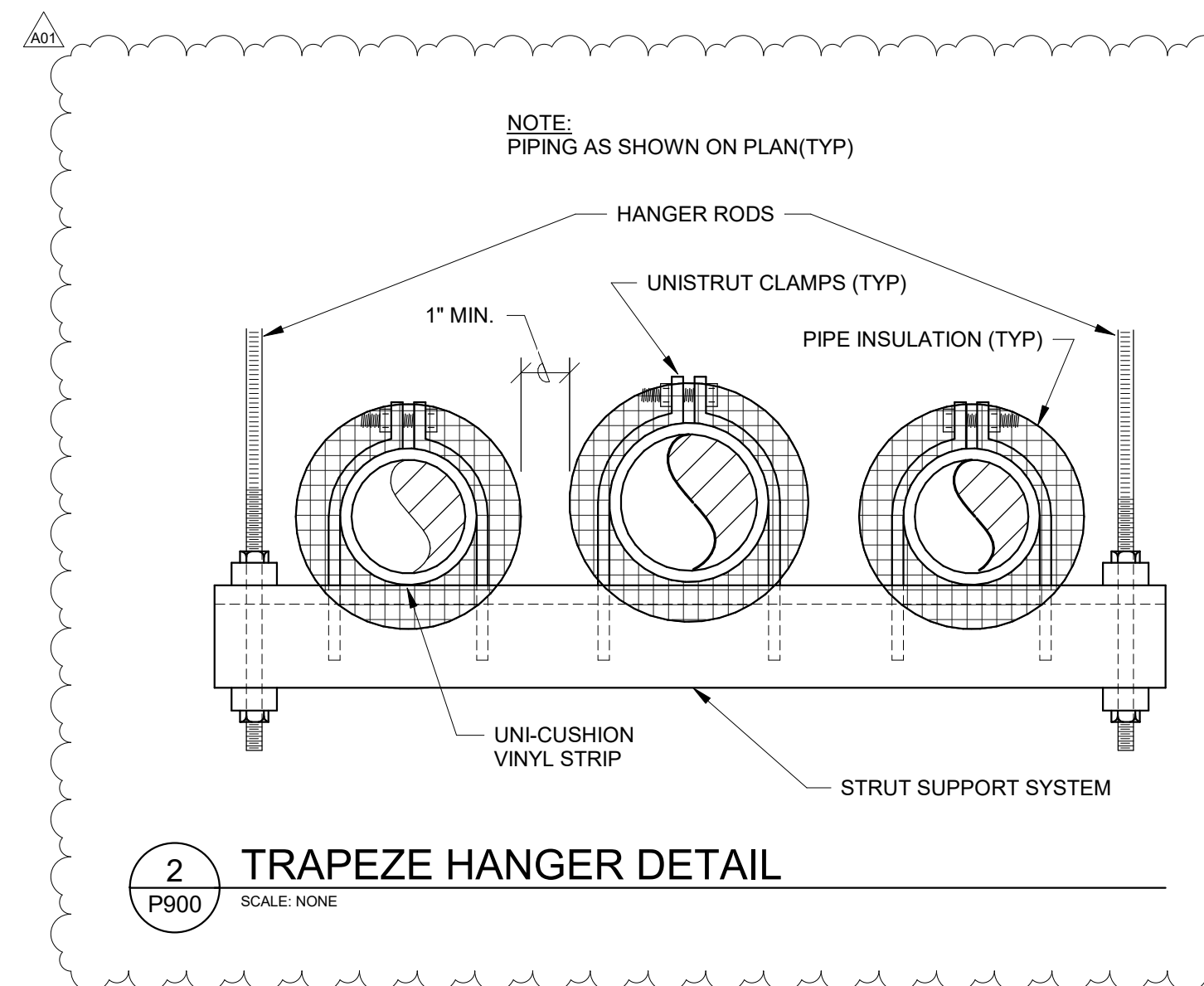
5 FLOOR DRAIN DETAIL
SCALE: NONE



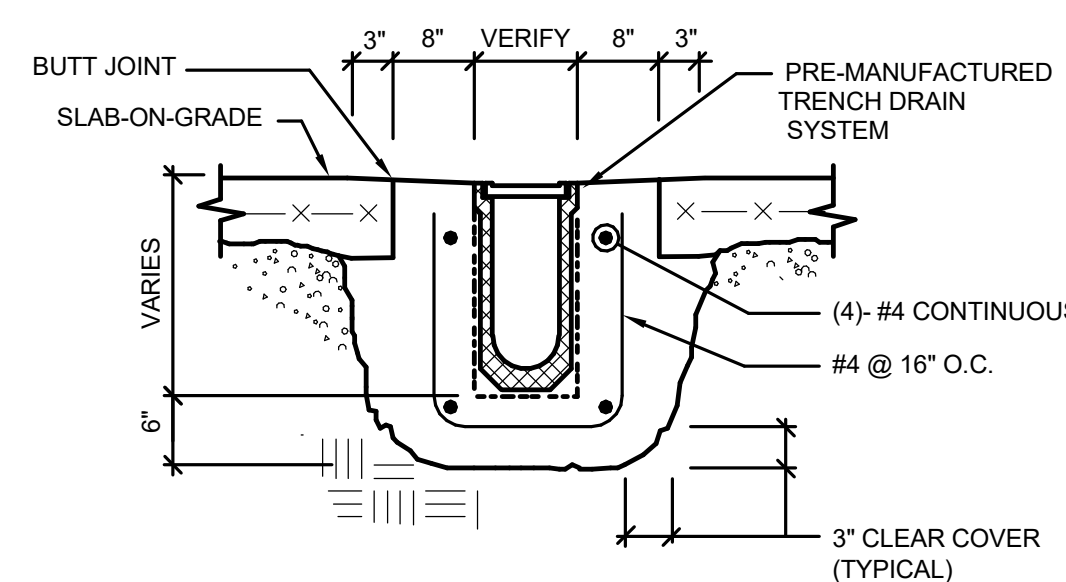
1 PIPE HANGER DETAIL
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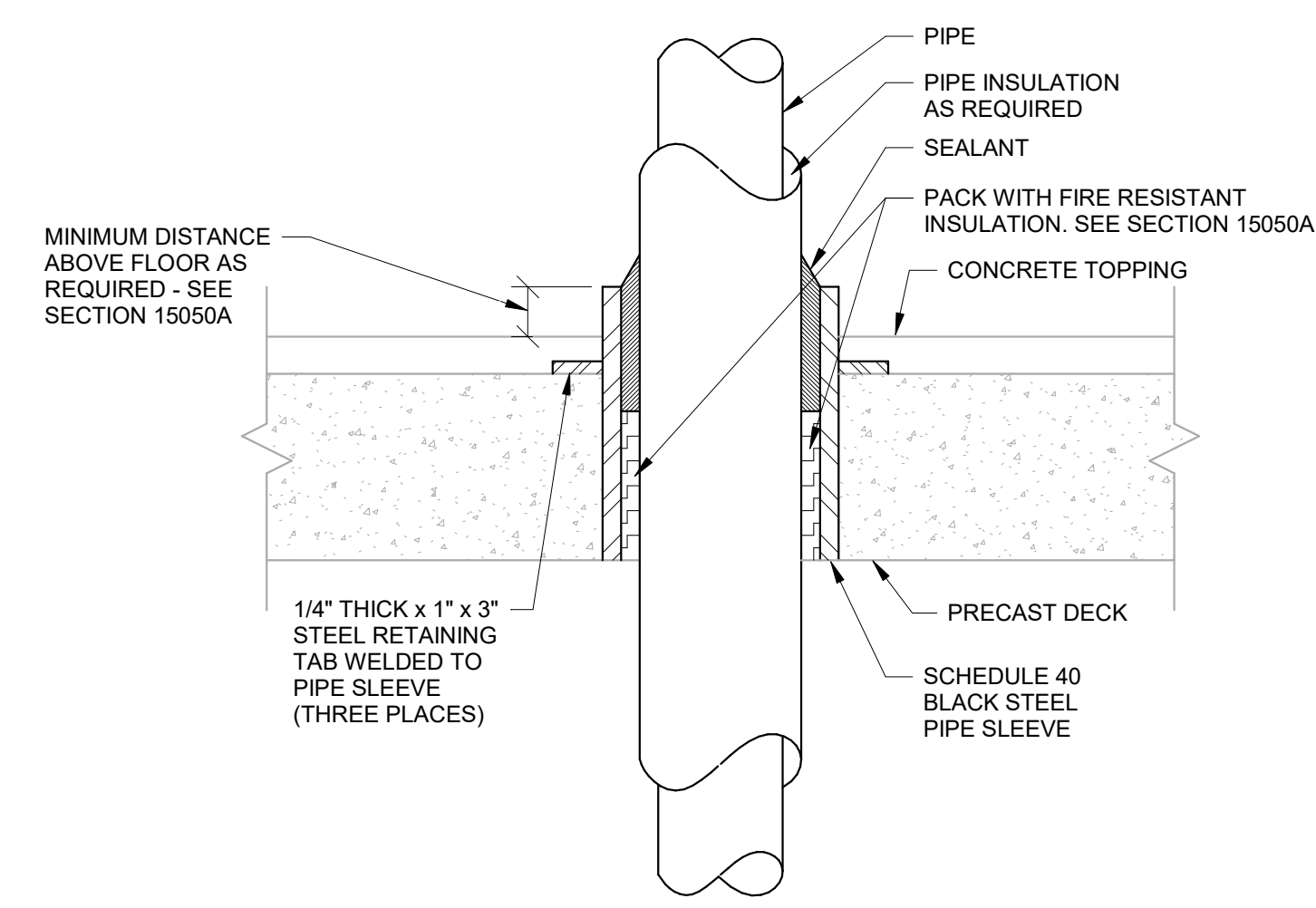
6 BARRIER FREE LAVATORY DETAIL
SCALE: NONE



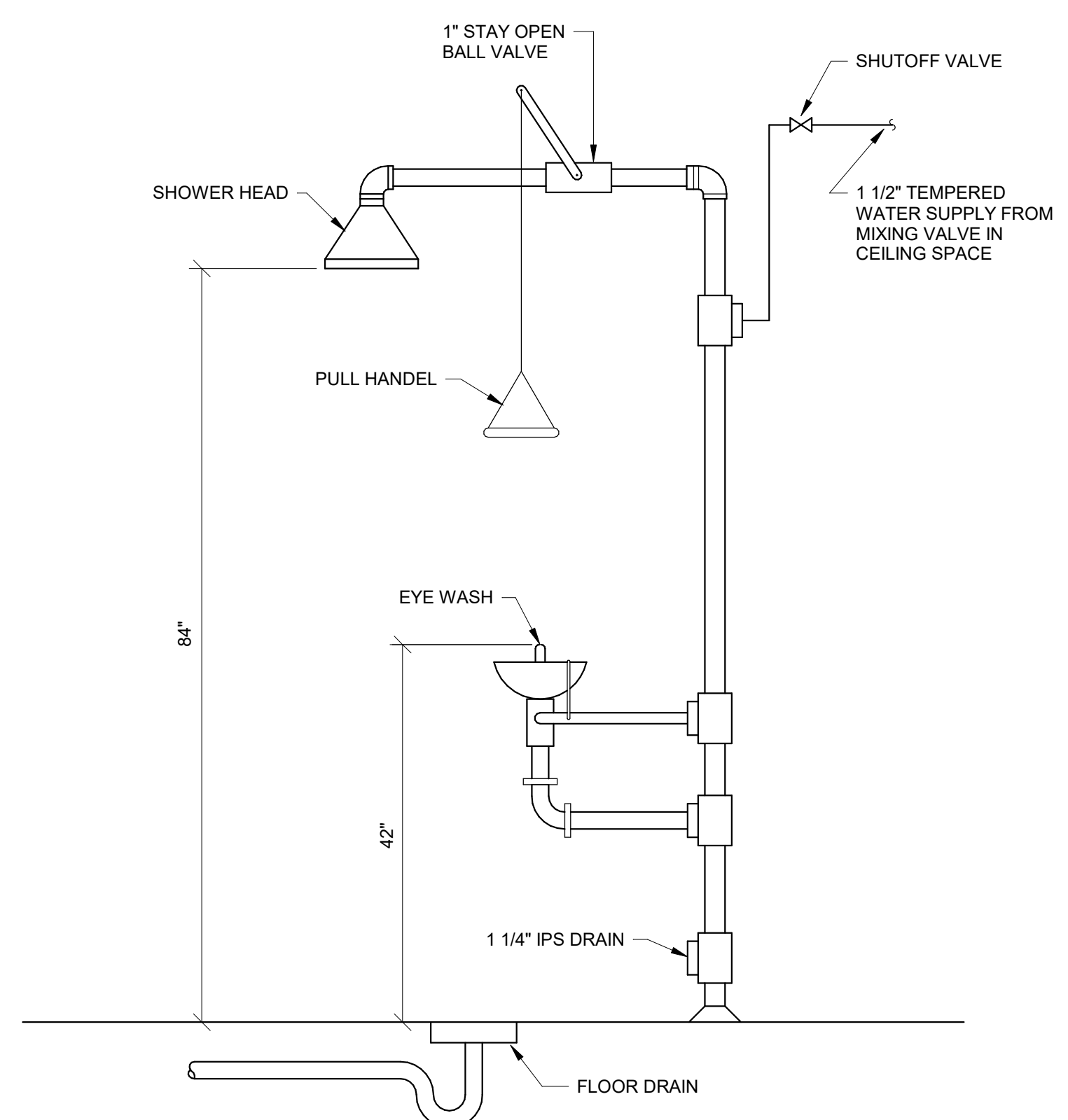
2 TRAPEZE HANGER DETAIL
SCALE: NONE



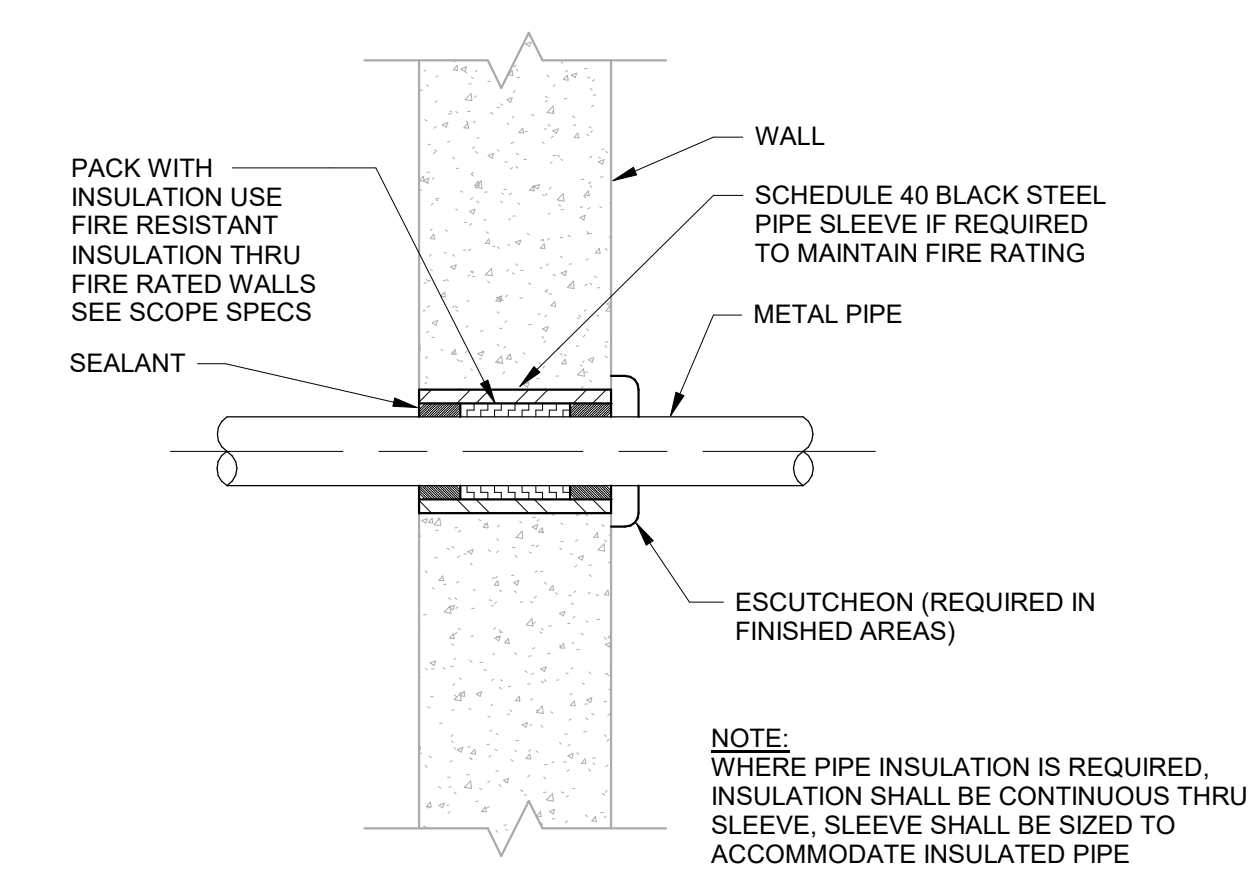
7 TRENCH DRAIN DETAIL
SCALE: NONE



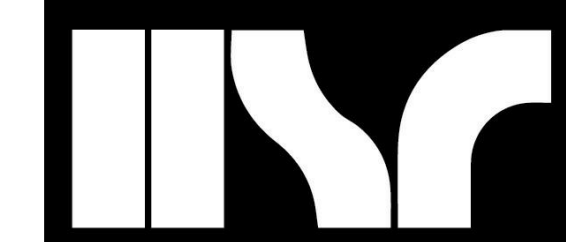
3 SLEEVE THRU FLOOR DETAIL
SCALE: NONE



8 EMERGENCY SHOWER AND EYE WASH DETAIL
SCALE: NONE



4 SLEEVE THRU WALL DETAIL
SCALE: NONE



BID DOCUMENTS

No.	Description	Date
A01	ADDENDUM 1	3.16.20

NEW LUMINAIRE SCHEDULE

SYMBOL	CALLOUT	DESCRIPTION	LAMP	INPUT WATTS	TOTAL LUMENS	LAMP COLOR	VOLTS	MOUNTING	MODEL	FIXTURE DEPTH	NOTES
	A	2X2 RECESSED LED	(1) LED	33.1	4070	3500K	MULTIPLE	RECESSED	LITHONIA 2VT1.2-40L-ADP-EZ1-LP835 / 2VT2 F916 COLUMBIA LCAT22-35VLC-ED1U MERC LR15-24G-4000-35K-1%-UNI	4-3/8"	SHADED FIXTURES ON LIGHTING PLANS TO BE PROVIDED WITH BATTERY PACK.
	B	6" LED DOWNLIGHT	(1) LED	19.7	2006	3500K	MULTIPLE	RECESSED	GOHAM EVO6-3620-AR-MD-LS-MVOLT-GZ1-TRW PRESCOLITE LTR-6RD-H-ML20L-DM11-TR-6RD-T-ML-35K-8-MD/SS-WT INTENSE SS66GADR-L3-359/IC830-C-SF-W	7-9/16"	SHADED FIXTURES ON LIGHTING PLANS TO BE PROVIDED WITH BATTERY PACK.
	C8	8' LINEAR LED PENDANT	(1) LED	26.24	6240	3500K	MULTIPLE	PENDANT	NULITE RP4-4B-03-L35-UNV-D0-1C-FRF-WH-T148-8 LITECONTROL 4L-P-ID-STD-8-8-SOF-C1-35K-I040-D040-D00-1C-UNV-FA1 MERCURY MLS3-M-96-400-400-35K-ASO-BW-1%-U	4-3/8"	REFER TO LIGHTING FLOOR PLANS FOR SYSTEM RUN LENGTHS. PROVIDE CABLE LENGTH TO MOUNT LIGHT FIXTURES BELOW STRUCTURAL TRUSSES. SHADED FIXTURES ON LIGHTING PLANS TO BE PROVIDED WITH BATTERY PACK.
	C12	12' LINEAR LED PENDANT	(1) LED	39.36	9360	3500K	MULTIPLE	PENDANT	NULITE RP4-4B-03-L35-UNV-D0-1C-FRF-WH-T148-12 LITECONTROL 4L-P-ID-STD-12-12-SOF-C1-35K-I040-D040-D00-1C-UNV-FA1 MERCURY MLS3-M-144-400-400-35K-ASO-BW-1%-U	4-3/8"	REFER TO LIGHTING FLOOR PLANS FOR SYSTEM RUN LENGTHS. PROVIDE CABLE LENGTH TO MOUNT LIGHT FIXTURES BELOW STRUCTURAL TRUSSES. SHADED FIXTURES ON LIGHTING PLANS TO BE PROVIDED WITH BATTERY PACK.
	C16	16' LINEAR LED PENDANT	(1) LED	52.48	12480	3500K	MULTIPLE	PENDANT	NULITE RP4-4B-03-L35-UNV-D0-1C-FRF-WH-T148-16 LITECONTROL 4L-P-ID-STD-16-16-SOF-C1-35K-I040-D040-D00-1C-UNV-FA1 MERCURY MLS3-M-192-400-400-35K-ASO-BW-1%-U	4-3/8"	REFER TO LIGHTING FLOOR PLANS FOR SYSTEM RUN LENGTHS. PROVIDE CABLE LENGTH TO MOUNT LIGHT FIXTURES BELOW STRUCTURAL TRUSSES.
	C20	16' LINEAR LED PENDANT	(1) LED	65.6	15600	3500K	MULTIPLE	PENDANT	NULITE RP4-4B-03-L35-UNV-D0-1C-FRF-WH-T148-20 LITECONTROL 4L-P-ID-STD-20-20-SOF-C1-35K-I040-D040-D00-1C-UNV-FA1 MERCURY MLS3-M-240-400-400-35K-ASO-BW-1%-U	4-3/8"	REFER TO LIGHTING FLOOR PLANS FOR SYSTEM RUN LENGTHS. PROVIDE CABLE LENGTH TO MOUNT LIGHT FIXTURES BELOW STRUCTURAL TRUSSES.
	D	8FT LED STRIP	(1) LED	81	11267	3500K	MULTIPLE	SURFACE	LITHONIA T2L-1D-L96-10000LM-FST-MVOLT-35K-80CRI-CS1W-WH COLUMBIA MPS8-35HL-FW-EDU-C6TL201 MERCURY LIGHTING LS48-10000-35K-HTA-1%-UNI	2.9882"	COORDINATE HANGER CHAIN/AIRCRAFT CABLE/WIREGAURD REQUIREMENTS WITH OWNER. SHADED FIXTURES ON LIGHTING PLANS TO BE PROVIDED WITH BATTERY PACK.
	E4	4FT LED STRIP	(1) LED	59	7480	3500K	MULTIPLE	SURFACE	LITHONIA 2L1D-L48-7000LM-FST-MVOLT-35K-80CRI-CS1W-WH COLUMBIA MPS4-35VL-FW-EDU-C6TL201 MERCURY LS44-5700-35K-HTA-1%-UNI	2.9882"	COORDINATE HANGER CHAIN/AIRCRAFT CABLE/WIREGAURD REQUIREMENTS WITH OWNER.
	EM	SELF POWERED EGRESS LIGHT	(2) LED	11	2200			SURFACE	LITHONIA ELM6L-JVOLT-LTP DUAL LITE EVMIC12-6BL EMERG-LITE EL-2LED	3.7"	FIXTURE TO BE CONNECTED TO CENTRAL INVERTER PANEL EL1A.
	H8	8' LINEAR LED RECESSED	(1) LED	26.24	3120	3500K	MULTIPLE	RECESSED	NULITE RG4-03-L35-UNV-D0-1C-FRF-8 LITE CONTROL 4L-DW-D-8-8-SOF-C1-35K-I040-D01-1C-UNV-W1 MERCURY MLS3-G-96-390-35K-ASO-1%-U	3-7/8"	REFER TO LIGHTING FLOOR PLANS FOR SYSTEM RUN LENGTHS.
	H16	16' LINEAR LED RECESSED	(1) LED	52.48	6240	3500K	MULTIPLE	RECESSED	NULITE RG4-03-L35-UNV-D0-1C-FRF-16 LITE CONTROL 4L-DW-D-16-16-SOF-C1-35K-I040-D01-1C-UNV-W1 MERCURY MLS3-G-192-390-35K-ASO-1%-U	3-7/8"	REFER TO LIGHTING FLOOR PLANS FOR SYSTEM RUN LENGTHS.
	J	6" LED CYLINDER	(1) LED	21.52	2300	3500K	MULTIPLE	PENDANT	INDY LC6-C-23LM-35K-MVOLT-B-G-80CRI-ZT / L6-HW-CS / CSTEM-48IN-BL-CAB PRESCOLITE LTC-6RD-CM-25L35K8MD-DM1-SSBL-BL INTENSE SS6G4C-L4-358-W-C-P48	13-1/4"	SHADED FIXTURES ON LIGHTING PLANS TO BE PROVIDED WITH BATTERY PACK.
	M	2X4 RECESSED LED	(1) LED	31.4	4210	3500K	MULTIPLE	RECESSED	LITHONIA 2VT1.4-40L-ADP-EZ1-LP835 / 2VT4 F916 COLUMBIA LCAT24-36VLC-ED1U MERCURY LR15-24G-4000-35K-1%-UNI	4-3/8"	SHADED FIXTURES ON LIGHTING PLANS TO BE PROVIDED WITH BATTERY PACK.
	N8	6' LINEAR LED SURFACE	(1) LED	38.8	4568	3500K	MULTIPLE	SURFACE	NULITE RG6-06-L35-UNV-D-1C-FRF-8 LITECONTROL 6L-S-D-8-8-SOF-C1-35K-I040-D00-1C-UNV-W1 MERCURY MLS3-M1-96-625-35K-1%-U	5-1/2"	
	OA	EXTERIOR LED CYLINDER	(1) LED	28	1491	3000K	MULTIPLE	SURFACE	JESS V1-48BL-LED-WW-UNV-W-MB-DG-DIM LITON WD2340-B-LIE-DUN-125 LIGMAN UTA-31881-2X37W-T2-T2-W30 STND FINISH-120/277	19.1"	PROVIDE UP AND DOWN CYLINDER LIGHTING.
	Q	LED STEP LIGHT	(1) LED	15	280	3500K	MULTIPLE	RECESSED	FC LIGHTING FC5L241-120V-35K-280-BK-BBU LITESTEP SLLED235KBL PERFORMANCE 071419	3.125"	
	X/EM	EXIT/EGRESS COMBO UNIVERSAL	(1) LED	3.8	0			RECESSED	LITHONIA ECR LED M6 DUAL LITE EVCURW EMERG-LITE ELXN400R-2LED	6"	FIXTURES ON LIGHTING PLANS TO BE PROVIDED WITH BATTERY PACK.
	XA	EXIT UNIVERSAL	(1) LED	1	0			WALL/CEILING	LITHONIA EXR LED EL M6 DUAL LITE EVCURW EMERG-LITE ELX400RN	7.13"	FIXTURES ON LIGHTING PLANS TO BE PROVIDED WITH BATTERY PACK.
	XB	EXIT UNIVERSAL SINGLE FACE SURFACE/PENDANT EDGE/LIT	(1) LED	2.5	0			WALL/CEILING	LITHONIA EDG-1-R-EL / ELA US12 DUAL LITE LES-STEM-S-R-D-N-A EMERG-LITE PAR6	5-1/2"	FIXTURES ON LIGHTING PLANS TO BE PROVIDED WITH BATTERY PACK.
	XB2	EXIT UNIVERSAL DOUBLE FACE SURFACE/PENDANT EDGE/LIT	(1) LED	2.5	0			WALL/CEILING	LITHONIA EDG-2-R-EL / ELA US12 DUAL LITE LES-STEM-S-R-D-N-A EMERG-LITE PAR6	5-1/2"	FIXTURES ON LIGHTING PLANS TO BE PROVIDED WITH BATTERY PACK.

MANUFACTURER'S NAMES AND CATALOG NUMBERS ARE USED FOR QUALITY AND PERFORMANCE ONLY. ALTERNATE LISTED LIGHT FIXTURES AND OTHER ELECTRICAL DEVICES MANUFACTURED BY OTHERS SHALL BE EQUALLY ACCEPTABLE PROVIDED THEY MEET OR EXCEED IN PERFORMANCE AND QUALITY AS SPECIFIED.

RECEPTACLE SCHEDULE

SYMBOL	CALLOUT	VOLTS	NOTES
	CEILING RECEPTACLE	120V 1P 2W	MOUNT IN CEILING UNLESS NOTED OTHERWISE.
	CORD REEL CONNECTION	120V 1P 2W	PROVIDE A HUBBELL #HBL 45123R20 CORD REEL. COORDINATE EXACT REQUIREMENTS WITH OWNER.
	DEDICATED DUPLEX RECEPTACLE	120V 1P 2W	MOUNT @ 18" UNLESS NOTED OTHERWISE.
	DOUBLE DUPLEX RECEPTACLE	120V 1P 2W	MOUNT @ 18" UNLESS NOTED OTHERWISE.
	DUPLEX RECEPTACLE	120V 1P 2W	MOUNT @ 18" UNLESS NOTED OTHERWISE.
	FLOOR BOX	120V 1P 2W	WIRED OLD #RFB4 SERIES FLOOR BOX. UNLESS OTHERWISE NOTED, PROVIDE WITH TWO DUPLEX RECEPTABLES AND TWO CAT6 CABLES / JACKS DATA COMPLETE WITH ALL REQUIRED HARDWARE. COORDINATE CONCRETE WORK WITH G.C. PROVIDE 1-1/2" CONDUIT MINIMUM FOR DATA CABLING.
	GFCI DUPLEX RECEPTACLE	120V 1P 2W	MOUNT @ 18" UNLESS NOTED OTHERWISE.
	RAISED DOUBLE DUPLEX RECEPTACLE	120V 1P 2W	MOUNT @ 46" UNLESS NOTED OTHERWISE.
	RAISED DUPLEX RECEPTACLE	120V 1P 2W	MOUNT @ 46" UNLESS NOTED OTHERWISE.
	RAISED GFCI DUPLEX RECEPTACLE	120V 1P 2W	MOUNT @ 46" UNLESS NOTED OTHERWISE.
	SIMPLEX RECEPTACLE	120V 1P 2W	MOUNT @ 18" UNLESS NOTED OTHERWISE.
	USB DUPLEX RECEPTACLE	120V 1P 2W	MOUNT @ 18" UNLESS NOTED OTHERWISE.
	WEATHER PROOF GFCI DUPLEX RECEPTACLE	120V 1P 2W	MOUNT @ 18" UNLESS NOTED OTHERWISE. PROVIDE WITH HEAVY DUTY W/ATHERPROOF 'IN USE' COVER.

GENERAL:

- VOLUME CONTROL
- SECURITY INTERCOM/PHONE
- MICROPHONE
- ELECTRICAL DISCONNECT
- MOTOR CONNECTION
- SPECIAL ELECTRICAL CONNECTION
- PUSH BUTTON
- OVERHEAD DOOR CONTROL
- ELECTRICAL PANEL
- SEE NOTE SYMBOL
- SURFACE MOUNTED DIVIDED RACEWAY

ABBREVIATIONS:

- (E) EXISTING TO REMAIN
- CR CORD REEL
- CD CORD DROP
- EWC ELECTRIC WATER COOLER
- FAAP FIRE ALARM ANNUNCIATOR PANEL
- FCAP FIRE ALARM CONTROL PANEL
- GC GENERAL CONTRACTOR
- GFCI GROUND FAULT CURRENT INTERRUPTER
- GFI GROUND FAULT INTERRUPTER
- GRD GROUND
- HP HORSE POWER
- HC HEATING, VENTILATING CONTRACTOR
- J-BOX JUNCTION BOX
- MOP MAIN DISTRIBUTION PANEL
- MLO MAIN LUG ONLY
- PC PLUMBING CONTRACTOR
- PNL PANEL
- RM ROOM
- TCP TEMPERATURE CONTROL PANEL
- WP WEATHERPROOF
- XFM TRANSFORMER
- WG WIRE GUARD

LIGHTING CONTROL SCHEDULE

SYMBOL	DESCRIPTION	NOTES
	0-10V DIMMER SWITCH	SINGLE POLE DIMMER SWITCH. MOUNT AT 46" TO CENTER UNLESS NOTED OTHERWISE.
	0-10V THREE WAY DIMMER SWITCH	MOUNT AT 46" TO CENTER UNLESS NOTED OTHERWISE.
	CEILING MOUNTED OCCUPANCY SENSOR TYPE A	DUAL TECHNOLOGY LOW VOLTAGE 360 DEGREE LARGE MOTION STANDARD RANGE CEILING SENSOR WITH ISOLATED LOW VOLTAGE RELAY. NLIGHT #HCM PDT-10 SERIES OR EQUAL BY LEVITON, HUBBELL, OR WATTSTOPPER.
	CEILING MOUNTED OCCUPANCY SENSOR TYPE B	DUAL TECHNOLOGY LOW VOLTAGE 360 DEGREE HIGH MOUNT (FROM 15'-0" - 45'-0") CEILING SENSOR WITH ISOLATED LOW VOLTAGE RELAY. NLIGHT #HCM PDT-6 SERIES OR EQUAL BY LEVITON, HUBBELL, OR WATTSTOPPER.
	DAYLIGHT SENSOR	CEILING/SURFACE MOUNT DAYLIGHT HARVESTING WITH AUTOMATIC DIMMING PHOTOCELL CONTROL. NLIGHT #HCM ADCX SERIES OR EQUAL BY LEVITON, HUBBELL, OR SENSOR SWITCH.
	FOUR WAY SWITCH	MOUNT AT 46" TO CENTER UNLESS NOTED OTHERWISE.
	PILOT LIGHT SWITCH	MOUNT AT 46" TO CENTER UNLESS NOTED OTHERWISE.
	SINGLE POLE SWITCH	MOUNT AT 46" TO CENTER UNLESS NOTED OTHERWISE.
	THREE WAY SWITCH	MOUNT AT 46" TO CENTER UNLESS NOTED OTHERWISE.
	TIMER SWITCH	MOUNT AT 46" TO CENTER UNLESS NOTED OTHERWISE.
	WALL OCCUPANCY SENSOR TYPE A	PIR SINGLE RELAY WALL SENSOR. SELECTABLE SETTINGS FOR OCCUPANCY OR VACANCY. MOUNT AT 46" TO CENTER UNLESS NOTED OTHERWISE. NLIGHT #HWSX PDT LV-DX SERIES OR EQUAL BY LEVITON, HUBBELL, OR WATTSTOPPER.
	WALL OCCUPANCY SENSOR TYPE B	PIR SINGLE RELAY WALL SENSOR WITH 0-10V DIMMING. SELECTABLE SETTINGS FOR OCCUPANCY OR VACANCY. MOUNT AT 46" TO CENTER UNLESS NOTED OTHERWISE. NLIGHT #HWSX PDT LV-DX SERIES OR EQUAL BY LEVITON, HUBBELL, OR WATTSTOPPER.

FIRE ALARM SCHEDULE

SYMBOL	DESCRIPTION	NOTES
	DUCT MOUNTED SMOKE	ADDRESSABLE DUCT MOUNTED SMOKE DETECTOR. COORDINATE LOCATION AND CONTROL INTERFACE WITH H.C.
	FIRE ALARM ANNUNCIATOR PANEL	FIRE ALARM SYSTEM WALL MOUNTED ANNUNCIATOR PANEL.
	FIRE ALARM CONTROL PANEL	FIRE ALARM SYSTEM WALL MOUNTED CONTROL PANEL.
	FLOW SWITCH	FIRE PROTECTION SYSTEM FLOW SWITCH MONITORED BY FIRE ALARM SYSTEM.
	HEAT DETECTOR	FIRE ALARM SYSTEM CEILING HEAT DETECTOR.
	PULLSTATION	FIRE ALARM SYSTEM PULLSTATION. LOCATE IN PATH OF EGRESS WITHIN 5' OF EGRESS DOOR.
	SMOKE DETECTOR	FIRE ALARM SYSTEM CEILING SMOKE DETECTOR.
	TAMPER SWITCH	FIRE PROTECTION SYSTEM TAMPER SWITCH MONITORED BY FIRE ALARM SYSTEM.
	WALL MOUNTED AUDIO-VISUAL NOTIFICATION DEVICE	FIRE ALARM SYSTEM WALL MOUNTED AUDIO/VISUAL ANNUNCIATION DEVICE WITH ADJUSTABLE CANDELA SETTINGS. ADJUST CANDELA TO SETTING INDICATED ON PLAN.
	WALL MOUNTED VISUAL NOTIFICATION DEVICE	FIRE ALARM SYSTEM WALL MOUNTED AUDIO/VISUAL ANNUNCIATION DEVICE WITH ADJUSTABLE CANDELA SETTINGS. ADJUST CANDELA TO SETTING INDICATED ON PLAN.

ACCESS CONTROL SCHEDULE

SYMBOL	CALLOUT	NOTES
	AIPHONE-DOOR RELEASE	ELECTRICAL CONTRACTOR TO PROVIDE SYSTEM DEVICE, RACEWAY AND JUNCTION BOX. REFER TO E900 FOR TYPICAL DOOR ACCESS CONTROL DETAILS. REFER TO SPEC SECTION 28.13.00.
	CARD READER	ELECTRICAL CONTRACTOR TO PROVIDE SYSTEM DEVICE, RACEWAY AND JUNCTION BOX. REFER TO E900 FOR TYPICAL DOOR ACCESS CONTROL DETAILS. REFER TO SPEC SECTION 28.13.00.
	DOOR POSITION SWITCH	ELECTRICAL CONTRACTOR TO PROVIDE SYSTEM DEVICE, RACEWAY AND JUNCTION BOX. REFER TO E900 FOR TYPICAL DOOR ACCESS CONTROL DETAILS. REFER TO SPEC SECTION 28.13.00.
	ELECTRIC STRIKE	ELECTRICAL CONTRACTOR TO PROVIDE SYSTEM DEVICE, RACEWAY AND JUNCTION BOX. REFER TO E900 FOR TYPICAL DOOR ACCESS CONTROL DETAILS. REFER TO SPEC SECTION 28.13.00.

COMMUNICATIONS DEVICE SCHEDULE

SYMBOL	DESCRIPTION	NOTES
	360 DEGREE SECURITY CAMERA	ELECTRICAL CONTRACTOR TO PROVIDE 4" SQUARE BOX WITH EXTENSION RING FOR A SINGLE GANG DEVICE AND A 3/4" CONDUIT TO ACCESSIBLE CEILING MINIMUM. PROVIDE A THREADED BUSHING ON THE CONDUIT END. PROVIDE TWO CAT6 CABLES AND JACKS UNLESS OTHERWISE NOTED. COORDINATE ALL REQUIREMENTS WITH OWNER.
	COMMUNICATIONS OUTLET	ELECTRICAL CONTRACTOR TO PROVIDE 4" SQUARE BOX WITH EXTENSION RING FOR A SINGLE GANG DEVICE AND A 3/4" CONDUIT TO ACCESSIBLE CEILING MINIMUM. PROVIDE A THREADED BUSHING ON THE CONDUIT END. MOUNT AT 18" AFF UNLESS NOTED OTHERWISE. PROVIDE TWO CAT6 CABLES AND JACKS UNLESS OTHERWISE NOTED.
	EXTERIOR SECURITY CAMERA	ELECTRICAL CONTRACTOR TO PROVIDE 4" SQUARE BOX WITH EXTENSION RING FOR A SINGLE GANG DEVICE AND A 3/4" CONDUIT TO ACCESSIBLE CEILING MINIMUM. PROVIDE A THREADED BUSHING ON THE CONDUIT END. PROVIDE TWO CAT6 CABLES AND JACKS UNLESS OTHERWISE NOTED. COORDINATE ALL REQUIREMENTS WITH OWNER.
	INTERIOR SECURITY CAMERA	ELECTRICAL CONTRACTOR TO PROVIDE 4" SQUARE BOX WITH EXTENSION RING FOR A SINGLE GANG DEVICE AND A 3/4" CONDUIT TO ACCESSIBLE CEILING MINIMUM. PROVIDE A THREADED BUSHING ON THE CONDUIT END. PROVIDE TWO CAT6 CABLES AND JACKS UNLESS OTHERWISE NOTED. COORDINATE ALL REQUIREMENTS WITH OWNER.
	RAISED COMMUNICATIONS OUTLET	ELECTRICAL CONTRACTOR TO PROVIDE 4" SQUARE BOX WITH EXTENSION RING FOR A SINGLE GANG DEVICE AND A 3/4" CONDUIT TO ACCESSIBLE CEILING MINIMUM. PROVIDE A THREADED BUSHING ON THE CONDUIT END. MOUNT AT 46" AFF UNLESS NOTED OTHERWISE. PROVIDE TWO CAT6 CABLES AND JACKS UNLESS OTHERWISE NOTED.
	SPEAKER CEILING GYM	ELECTRICAL CONTRACTOR TO PROVIDE 4" SQUARE BOX WITH EXTENSION RING FOR A SINGLE GANG DEVICE AND A 3/4" CONDUIT TO ACCESSIBLE CEILING MINIMUM. PROVIDE A THREADED BUSHING ON THE CONDUIT END. COORDINATE EXACT REQUIREMENTS WITH LOW VOLTAGE CONTRACTOR AND OWNER.
	SPEAKER CEILING SURFACE MOUNTED	ELECTRICAL CONTRACTOR TO PROVIDE 4" SQUARE BOX WITH EXTENSION RING FOR A SINGLE GANG DEVICE AND A 3/4" CONDUIT TO ACCESSIBLE CEILING MINIMUM. PROVIDE A THREADED BUSHING ON THE CONDUIT END. COORDINATE EXACT REQUIREMENTS WITH LOW VOLTAGE CONTRACTOR AND OWNER.
	SPEAKER RECESSED CEILING MOUNTED	ELECTRICAL CONTRACTOR TO PROVIDE 4" SQUARE BOX WITH EXTENSION RING FOR A SINGLE GANG DEVICE AND A 3/4" CONDUIT TO ACCESSIBLE CEILING MINIMUM. PROVIDE A THREADED BUSHING ON THE CONDUIT END. COORDINATE EXACT REQUIREMENTS WITH LOW VOLTAGE CONTRACTOR AND OWNER.
	WIRELESS ACCESS POINT	ELECTRICAL CONTRACTOR TO PROVIDE 4" SQUARE BOX WITH EXTENSION RING FOR A SINGLE GANG DEVICE AND A 3/4" CONDUIT TO ACCESSIBLE CEILING MINIMUM. PROVIDE A THREADED BUSHING ON THE CONDUIT END. MOUNT AT 18" AFF UNLESS NOTED OTHERWISE. PROVIDE TWO CAT6 CABLES AND JACKS UNLESS OTHERWISE NOTED.
	WIRELESS CLOCK WALL MOUNTED	ELECTRICAL CONTRACTOR TO PROVIDE AND INSTALL CLOCK AT LOCATIONS SHOWN. REFER TO SPEC SECTION 27.53.13.

AUDIO ENHANCEMENT DEVICE SCHEDULE

SYMBOL	DESCRIPTION	NOTES
	CLASSROOM CAMERA	ELECTRICAL CONTRACTOR TO PROVIDE 4" SQUARE BOX WITH EXTENSION RING FOR A SINGLE GANG DEVICE AND A 3/4" CONDUIT TO ACCESSIBLE CEILING MINIMUM. PROVIDE A THREADED BUSHING ON THE CONDUIT END. PROVIDE TWO CAT6 CABLES AND JACKS UNLESS OTHERWISE NOTED. REFER TO AUDIO ENHANCEMENT DETAILS SHOWN OF SHEET E902.
	EMERGENCY CALL	ELECTRICAL CONTRACTOR TO PROVIDE 4" SQUARE BOX WITH EXTENSION RING FOR A SINGLE GANG DEVICE AND A 3/4" CONDUIT TO ACCESSIBLE CEILING MINIMUM. PROVIDE A THREADED BUSHING ON THE CONDUIT END. PROVIDE 182 WIRING TO SPEAKER UNLESS NOTED OTHERWISE. COORDINATE EXACT REQUIREMENTS WITH LOW VOLTAGE CONTRACTOR. REFER TO AUDIO ENHANCEMENT DETAILS SHOWN OF SHEET E902. COORDINATE ALL REQUIREMENTS WITH MANUFACTURER.
	PAGING HORN	ELECTRICAL CONTRACTOR TO PROVIDE 4" SQUARE BOX WITH EXTENSION RING FOR A SINGLE GANG DEVICE AND A 3/4" CONDUIT TO ACCESSIBLE CEILING MINIMUM. PROVIDE A THREADED BUSHING ON THE CONDUIT END. PROVIDE 182 WIRING TO SPEAKER UNLESS NOTED OTHERWISE. COORDINATE EXACT REQUIREMENTS WITH LOW VOLTAGE CONTRACTOR. REFER TO AUDIO ENHANCEMENT DETAILS SHOWN OF SHEET E902. COORDINATE ALL REQUIREMENTS WITH MANUFACTURER.
	SPEAKER CEILING CLASSROOM	ELECTRICAL CONTRACTOR TO PROVIDE 4" SQUARE BOX WITH EXTENSION RING FOR A SINGLE GANG DEVICE AND A 3/4" CONDUIT TO ACCESSIBLE CEILING MINIMUM. PROVIDE A THREADED BUSHING ON THE CONDUIT END. PROVIDE 182 WIRING TO SPEAKER UNLESS NOTED OTHERWISE. COORDINATE EXACT REQUIREMENTS WITH LOW VOLTAGE CONTRACTOR. REFER TO AUDIO ENHANCEMENT DETAILS SHOWN OF SHEET E902. COORDINATE ALL REQUIREMENTS WITH MANUFACTURER.

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- E902 AUDIO ENHANCEMENT DETAILS - ELECTRICAL



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LA CRESCENT-HOKAH PUBLIC SCHOOLS
HIGH SCHOOL/ MIDDLE SCHOOL
Project Title:
Project Location: 1301 LANCER BOULEVARD
LA CRESCENT, MINNESOTA
SYMBOLS, ABBREVIATIONS & DETAILS - ELECTRICAL

HSR Project Number:
19014-1

Project Date:
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Drawn By:
JDR

Key Plan:

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JDR PROJECT NO. 19.0361

Project Title:
**LA CRESCENT-HOKAH PUBLIC SCHOOLS
HIGH SCHOOL/ MIDDLE SCHOOL
FIRST FLOOR REMOVAL PLAN - POWER & SYSTEMS - AREA A**

Project Location:
1301 LANCER BOULEVARD
LA CRESCENT, MINNESOTA

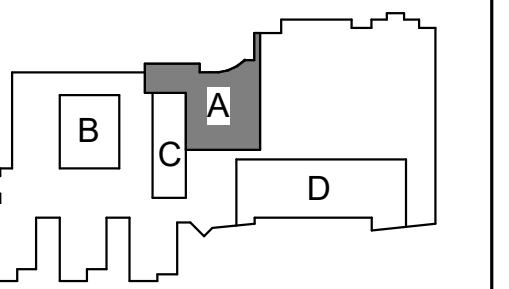
Sheet Title:

HSR Project Number:
19014-1

Project Date:
3.5.2020

Drawn By:
JDR

Key Plan:



KEY PLAN

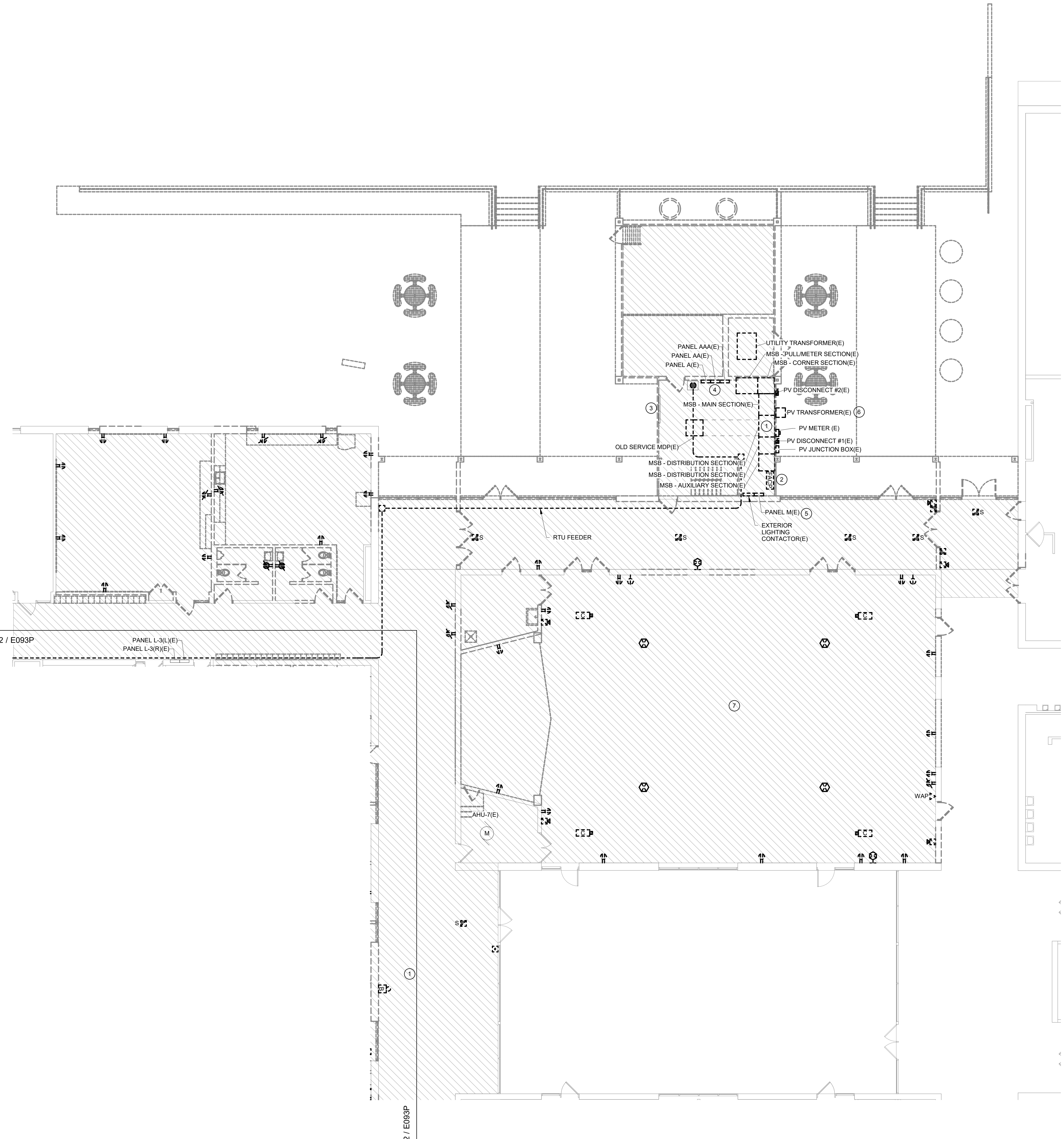
**BID
DOCUMENTS**

No.	Description	Date
A01	ADDENDUM 1	3.16.20

Graphic Scale:
0 2' 4' 8' 12'

Last Update:
3/13/2020 11:01:15 AM

E091P



GENERAL NOTES:

- REFER TO SHEET E000 FOR ALL SYMBOLS, SCHEDULES, AND DETAILS.
- COORDINATE ALL DEMOLITION WORK REQUIREMENTS WITH ARCHITECTURAL PLANS. REWORK EXISTING ELECTRICAL SYSTEMS, AS REQUIRED, TO ACCOMMODATE ARCHITECTURAL CHANGES.
- COORDINATE ALL CONSTRUCTION PHASING WITH ARCHITECTURAL PLANS AND PROVIDE PHASING OF ELECTRICAL SYSTEMS AS REQUIRED. THIS INCLUDES COORDINATION OF THE NEW ELECTRICAL SERVICE WITH THE UTILITY TO INSURE NEW SERVICE IS ONLINE PRIOR TO DEENERGIZING, DISCONNECTING, AND REMOVING EXISTING ELECTRICAL SERVICE.
- ALL DASHED LINES SHOWN ON THE PLANS INDICATE EXISTING DEVICES TO BE DEMOLISHED UNLESS NOTED OTHERWISE. REMOVE ANY/ALL UNUSED BOXES, WIRING AND RACEWAY BACK TO SOURCE. ALL PROPERLY SIZED AND PROPERLY SUPPORTED CONDUIT ONLY MAY BE REUSED.
- COORDINATE SHUTDOWN OF EXISTING SERVICES WITH OWNER PRIOR TO COMMENCING ANY DEMOLITION WORK.
- ANY/ALL LOW VOLTAGE SYSTEM DEVICES WITHIN THE RENOVATED AREAS, INCLUDING BUT NOT LIMITED TO TELECOMMUNICATIONS, INTERCOM, CLOCKS, CATV, SECURITY, AND CCTV, SHALL BE SELECTIVELY DISCONNECTED, REMOVED, AND TURNED OVER TO OWNER FOR POTENTIAL REUSE. REFER TO NEW POWER/SYSTEMS PLANS FOR NEW LOW VOLTAGE SYSTEMS REQUIREMENTS WITHIN THE RENOVATED AREAS.
- EXISTING PROJECT CONDITIONS: INFORMATION PERTAINING TO EXISTING PROJECT CONDITIONS, SUCH AS PRESENT LOCATIONS OF ARCHITECTURAL, AND STRUCTURAL BUILDING COMPONENTS, MECHANICAL AND ELECTRICAL EQUIPMENT, PIPING DUCTWORK, ROUGH-INS AND OTHER MISCELLANEOUS CONSTRUCTION, APPEARS ON THE DRAWINGS. WHILE SUCH INFORMATION HAS BEEN BASED ON AVAILABLE RECORDS AND COLLECTED WITH REASONABLE CARE, THE ARCHITECT AND ENGINEER DO NOT ASSUME ANY EXPRESSED OR IMPLIED GUARANTEE THAT CONDITIONS SO INDICATED ARE SHOWN ENTIRELY COMPLETE, CORRECT AND REPRESENTATIVE OF THOSE ACTUALLY EXISTING. ALL CONTRACTORS SHALL SATISFY THEMSELVES AS TO ALL EXISTING JOB CONDITIONS PRIOR TO BIDDING AND VERIFY ALL DIMENSIONS AT THE SITE.

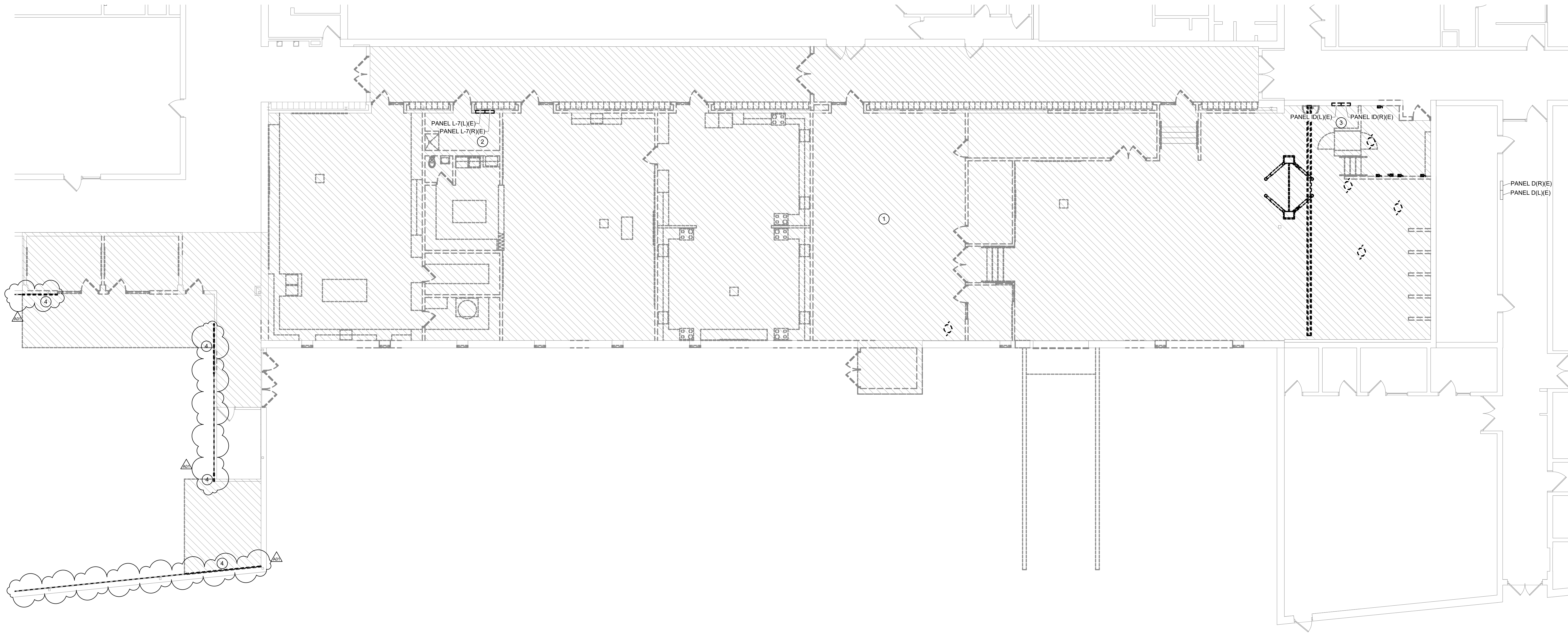
KEYED NOTES - E091P

- EXISTING XCEL ENERGY UTILITY ELECTRICAL SERVICE TO BE DISCONNECTED AND REMOVED ONCE NEW ELECTRICAL SERVICE IS INSTALLED AND ENERGIZED. REFER TO ARCHITECTURAL PLANS FOR PROJECT PHASING. SERVICE SHALL REMAIN OPERATIONAL AS REQUIRED TO MAINTAIN THE EXISTING SCHOOL WHILE INITIAL PHASES OF CONSTRUCTION ARE COMPLETED AND NEW ELECTRICAL SERVICE IS INSTALLED AND ENERGIZED. COORDINATE ANY/ALL REQUIREMENTS WITH XCEL ENERGY PRIOR TO BID AND THROUGHOUT CONSTRUCTION, AS REQUIRED.
- EXISTING NOTIFIER #AFP-400 FIRE ALARM CONTROL PANEL AND SYSTEM COMPONENTS TO BE DISCONNECTED, REMOVED, AND REPLACED IN THE MECHANICAL ROOM BELOW B1A. REFER TO SHEET E102 FOR NEW LOCATION. EXTEND ANY/ALL EXISTING CIRCUITS, DEVICES, ETC. TO NEW LOCATION AS REQUIRED. FIELD VERIFY ALL REQUIREMENTS. COORDINATE ANY/ALL REQUIREMENTS AND ADDITIONAL SYSTEM COMPONENT REQUIREMENTS WITH FIRE ALARM VENDOR/MANUFACTURER. COORDINATE SYSTEM OUTAGES WITH OWNER.
- EXISTING ALTRONIX IDENTICARD ACCESS CONTROL SYSTEM PANELS AND SYSTEM COMPONENTS TO BE DISCONNECTED, REMOVED, AND RELOCATED TO THE MECHANICAL ROOM BELOW B1A. REFER TO SHEET E102 FOR NEW LOCATION. EXTEND ANY/ALL EXISTING CIRCUITS, DEVICES, ETC. TO NEW LOCATION AS REQUIRED. FIELD VERIFY ALL REQUIREMENTS. COORDINATE ANY/ALL REQUIREMENTS AND ADDITIONAL SYSTEM COMPONENT REQUIREMENTS WITH ACCESS CONTROL SYSTEM ALARM VENDOR/MANUFACTURER. COORDINATE SYSTEM OUTAGES WITH OWNER.
- EXISTING ELECTRICAL PANELS 'A', 'AAA', & 'M' TO BE DISCONNECTED, REMOVED, AND REPLACED COMPLETE IN MECHANICAL ROOM BELOW B1A. REFER TO SHEET E102 FOR NEW PANEL LOCATIONS. ELECTRICAL CONTRACTOR TO DETERMINE QUANTITIES OF EXISTING CIRCUITS TO BE MAINTAINED AND EXTEND ANY/ALL MAINTAINED LOADS TO NEW PANELS IN NEW LOCATIONS. FIELD VERIFY ALL REQUIREMENTS. REFER TO EXISTING AND NEW PANEL SCHEDULES SHOWN ON SHEET E802/E803 FOR APPROXIMATE CIRCUITS/BREAKERS TO BE MAINTAINED/PROVIDED.
- EXISTING EXTERIOR LIGHTING CONTACTORS/ENCLOSURE AND TIMECLOCK TO BE DISCONNECTED, REMOVED, AND RELOCATE TO MECHANICAL ROOM BELOW B1A. REFER TO SHEET E102 FOR NEW LOCATION. ELECTRICAL CONTRACTOR TO DETERMINE QUANTITIES OF EXISTING CIRCUITS TO BE MAINTAINED AND EXTEND ANY/ALL MAINTAINED LOADS TO NEW LOCATION. FIELD VERIFY ALL REQUIREMENTS.
- ELECTRICAL CONTRACTOR TO COORDINATE THE DISCONNECT AND RELOCATION OF ALL EXISTING PV EQUIPMENT WITH OWNER AND OWNERS PV CONTRACTOR. REFER TO PV CONTRACTOR'S DRAWINGS FOR ELECTRICAL CONTRACTORS SCOPE REQUIREMENTS. COORDINATE FINAL LOCATION WITH OWNER.
- ELECTRICAL CONTRACTOR TO REMOVE ALL POWER, DATA, FIRE ALARM DEVICES ETC. IN HATCHED AREA UNLESS NOTED OTHERWISE. CONDUCTORS, RACEWAYS AND JUNCTION BOXES SERVING REMOVED DEVICES ARE TO BE REMOVED BACK TO SOURCE.



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JDR PROJECT NO. 19.0361



1 FIRST FLOOR REMOVAL PLAN - POWER & SYSTEMS - AREA D
E094 SCALE: 1/8" = 1'-0"

GENERAL NOTES:

- REFER TO SHEET E000 FOR ALL SYMBOLS, SCHEDULES, AND DETAILS.
- COORDINATE ALL DEMOLITION WORK REQUIREMENTS WITH ARCHITECTURAL PLANS. REWORK EXISTING ELECTRICAL SYSTEMS, AS REQUIRED, TO ACCOMMODATE ARCHITECTURAL CHANGES.
- COORDINATE ALL CONSTRUCTION PHASING WITH ARCHITECTURAL PLANS AND PROVIDE PHASING OF ELECTRICAL SYSTEMS AS REQUIRED. THIS INCLUDES COORDINATION OF THE NEW ELECTRICAL SERVICE WITH THE UTILITY TO INSURE NEW SERVICE IS ONLINE PRIOR TO DEENERGIZING, DISCONNECTING, AND REMOVING EXISTING ELECTRICAL SERVICE.
- ALL DASHED LINES SHOWN ON THE PLANS INDICATE EXISTING DEVICES TO BE DEMOLISHED UNLESS NOTED OTHERWISE. REMOVE ANY/ALL UNUSED BOXES, WIRING AND RACEWAY BACK TO SOURCE. ALL PROPERLY SIZED AND PROPERLY SUPPORTED CONDUIT ONLY MAY BE REUSED.
- COORDINATE SHUTDOWN OF EXISTING SERVICES WITH OWNER PRIOR TO COMMENCING ANY DEMOLITION WORK.
- ANY/ALL LOW VOLTAGE SYSTEM DEVICES WITHIN THE RENOVATED AREAS, INCLUDING BUT NOT LIMITED TO TELECOMMUNICATIONS, INTERCOM, CLOCKS, CATV, SECURITY, AND CCTV, SHALL BE SELECTIVELY DISCONNECTED, REMOVED, AND TURNED OVER TO OWNER FOR POTENTIAL REUSE. REFER TO NEW POWER/SYSTEMS PLANS FOR NEW LOW VOLTAGE SYSTEMS REQUIREMENTS WITHIN THE RENOVATED AREAS.
- EXISTING PROJECT CONDITIONS: INFORMATION PERTAINING TO EXISTING PROJECT CONDITIONS, SUCH AS PRESENT LOCATIONS OF ARCHITECTURAL AND STRUCTURAL BUILDING COMPONENTS, MECHANICAL AND ELECTRICAL EQUIPMENT, PIPING DUCTWORK, ROUGH-INS AND OTHER MISCELLANEOUS CONSTRUCTION, APPEARS ON THE DRAWINGS. WHILE SUCH INFORMATION HAS BEEN BASED ON AVAILABLE RECORDS AND COLLECTED WITH REASONABLE CARE, THE ARCHITECT AND ENGINEER DO NOT ASSUME ANY EXPRESSED OR IMPLIED GUARANTEE THAT CONDITIONS SO INDICATED ARE SHOWN ENTIRELY COMPLETE, CORRECT AND REPRESENTATIVE OF THOSE ACTUALLY EXISTING. ALL CONTRACTORS SHALL SATISFY THEMSELVES AS TO ALL EXISTING JOB CONDITIONS PRIOR TO BIDDING AND VERIFY ALL DIMENSIONS AT THE SITE.

KEYED NOTES - E094

- ELECTRICAL CONTRACTOR TO REMOVE ALL LIGHTING, LIGHTING CONTROL, POWER, DATA, FIRE ALARM DEVICES ETC. IN HATCHED AREA UNLESS NOTED OTHERWISE. CONDUCTORS, RACEWAYS AND JUNCTION BOXES SERVING REMOVED DEVICES ARE TO BE REMOVED BACK TO SOURCE.
- ELECTRICAL CONTRACTOR TO DISCONNECT AND REMOVE EXISTING PANEL L-7. REMOVE CONDUCTORS, RACEWAY, AND JUNCTION BOXES BACK TO SOURCE.
- ELECTRICAL CONTRACTOR TO DISCONNECT AND REMOVE EXISTING PANEL ID. REMOVE CONDUCTORS, RACEWAY, AND JUNCTION BOXES BACK TO SOURCE.
- ELECTRICAL CONTRACTOR TO DISCONNECT AND REMOVE PORTION OF EXISTING SURFACE MOUNTED RACEWAY. REFER TO E104P FOR REVISED LAYOUT.

Project Title:
**LA CRESCENT-HOKAH PUBLIC SCHOOLS
HIGH SCHOOL/ MIDDLE SCHOOL
FIRST FLOOR REMOVAL PLAN - ELECTRICAL - AREA D**

Project Location:
1301 LANCER BOULEVARD
LA CRESCENT, MINNESOTA

Project Number:
19014-1

Project Date:
3.5.2020

Drawn By:
Author

Key Plan:

KEY PLAN

**BID
DOCUMENTS**

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E094



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JDR PROJECT NO. 19.0361

Project Title:
**LA CRESCENT-HOKAH PUBLIC SCHOOLS
HIGH SCHOOL/ MIDDLE SCHOOL**

Project Location:
1301 LANCER BOULEVARD
LA CRESCENT, MINNESOTA

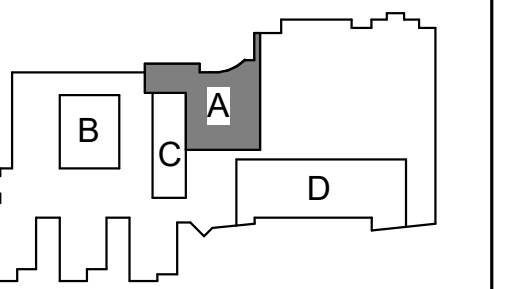
Sheet Title:
FIRST FLOOR PLAN - POWER & SYSTEMS - AREA A

Project Number:
19014-1

Project Date:
3.5.2020

Drawn By:
JDR

Key Plan:



KEY PLAN

**BID
DOCUMENTS**

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A01	ADDENDUM 1	3.16.20

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Last Update:
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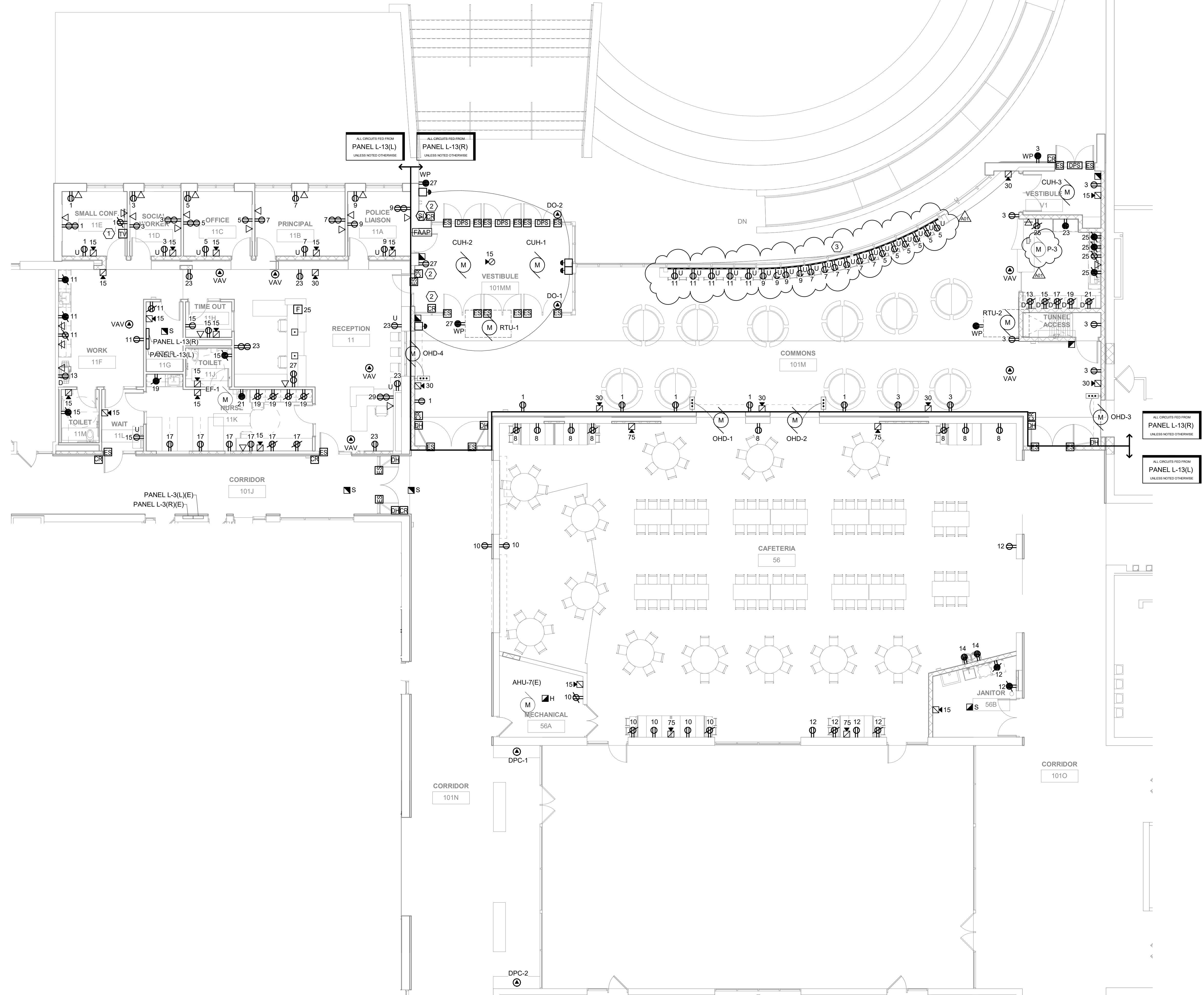
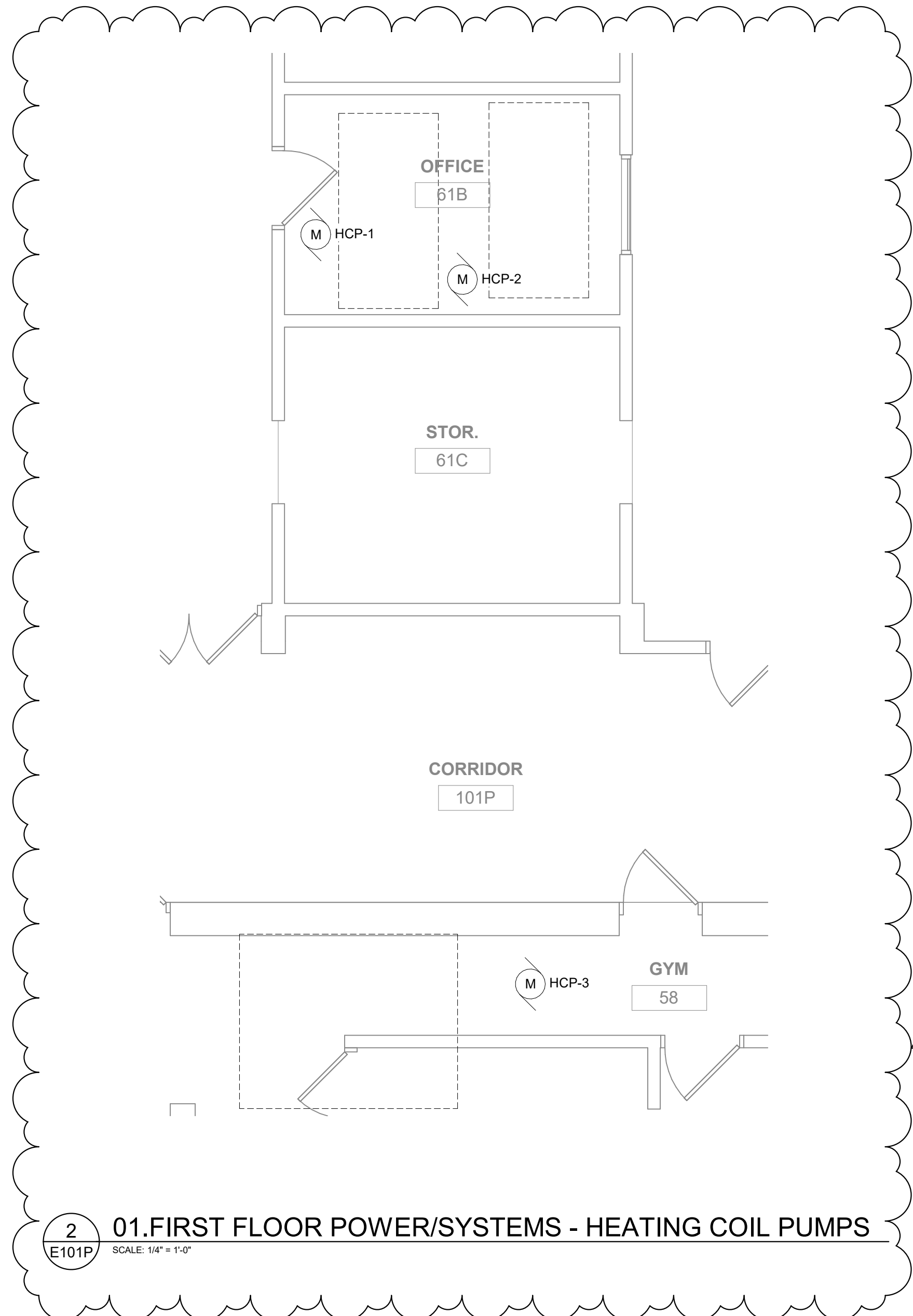
E101P

GENERAL NOTES:

- REFER TO SHEET E000 FOR ALL SYMBOLS, ABBREVIATIONS AND SCHEDULES.
- COORDINATE ALL CONSTRUCTION PHASING WITH ARCHITECTURAL PLANS AND PROVIDE PHASING OF ELECTRICAL SYSTEMS AS REQUIRED. THIS INCLUDES COORDINATION OF THE NEW ELECTRICAL SERVICE WITH THE UTILITY TO ENSURE NEW SERVICE IS ONLINE PRIOR TO DEENERGIZING, DISCONNECTING, AND REMOVING EXISTING ELECTRICAL SERVICE.
- COORDINATE ALL WALL DEVICE LOCATIONS WITH ARCHITECTURAL ELEVATION PLANS AND WALL DEVICE LOCATIONS SHOWN ON LIGHTING PLANS.
- EXTEND NEW/EXISTING NOTIFIER FIRE ALARM SYSTEM THROUGHOUT BUILDING. FIRE ALARM SYSTEM DEVICES AND EQUIPMENT SHOWN ON THIS DRAWING INDICATES GENERAL PROJECT INTENT. THE ELECTRICAL CONTRACTORS FIRE ALARM SYSTEM VENDOR IS RESPONSIBLE FOR QUANTITIES, LAYOUT DESIGN AND CALCULATIONS OF THEIR SPECIFIC EQUIPMENT TO PROVIDE A COMPLETE FUNCTIONAL CODE COMPLYING SYSTEM. ELECTRICAL CONTRACTOR SHALL PROVIDE FINAL DESIGN DOCUMENTS TO THE LOCAL AUTHORITY, AS REQUIRED, AND SHALL SUBMIT ALL PLANS/SPECS FOR LOCAL/STATE REVIEW, AS REQUIRED.
- PROVIDE ROUGH-IN FOR ALL LOW VOLTAGE SYSTEM DEVICES WITHIN THE ADDITIONS/RENOVATED AREAS AS SHOWN ON THIS PLAN AND AS REQUIRED. THIS INCLUDES, BUT IS NOT LIMITED TO AV SYSTEMS, TELECOMMUNICATIONS, INTERCOM, CLOCKS, CATV, SECURITY, AND CCTV. COORDINATE ALL LOW VOLTAGE SYSTEMS LOCATIONS AND REQUIREMENTS WITH OWNER TO CONFIRM COMPLETE SCOPE OF WORK. IN ADDITION, PROVIDE AC POWER CONNECTIONS TO LOW VOLTAGE SYSTEMS EQUIPMENT AS REQUIRED.
- USE OF MULTIWIRE BRANCH CIRCUITS SERVING LIGHTING CIRCUITS IN BOTH NEW AND EXISTING AREAS OF THE BUILDING IS NOT PERMITTED.
- CEILING PLENUMS ARE BEING USED AS A RETURN AIR PATH. ALL EQUIPMENT, CABLES, PATHWAYS, ETC. SHALL BE RATED FOR PLENUM INSTALLATION.
- PROVIDE A PRIMEX ONEVUE SYNC WIRELESS CLOCK SYSTEM THROUGHOUT RENOVATED AREAS OF BUILDING, AS SHOWN AND AS REQUIRED. PROVIDE BRIDGE WITH POE AND BLUETOOTH TECHNOLOGY, REPEATERS, CLOCKS (DIGITAL OR ANALOG, PER OWNER), SYSTEM SOFTWARE/SSH, ETC. AS REQUIRED FOR A COMPLETE SYSTEM THROUGHOUT THE RENOVATED AREAS OF BUILDING. LOCATE ANY ALL HEAD-END EQUIPMENT IN EXISTING MDF/IDF ROOMS. COORDINATE ALL REQUIREMENTS WITH OWNER AND PROVIDE PRODUCT SUBMITTALS, SAMPLES, PRODUCT DATA, AND OPERATION/INSTALLATION INSTRUCTIONS AS REQUIRED. PROVIDE TWO-YEAR WARRANTY ON ALL EQUIPMENT COMPONENTS. ANY ALL SYSTEMS PROPOSED TO BE PROVIDED AS AN EQUIVALENT SYSTEM SHALL BE REVIEWED WITH OWNER PRIOR TO BID.
- EXTEND EXISTING ALTRONIX IDENTICARD ACCESS CONTROL SYSTEM THROUGHOUT BUILDING AS REQUIRED. REFER TO SHEET E102 FOR REVISED SYSTEM LOCATION. EXTEND ANY ALL EXISTING CIRCUITS, DEVICES, ETC. TO NEW LOCATION AS REQUIRED. FIELD VERIFY ALL REQUIREMENTS. COORDINATE ANY ALL REQUIREMENTS AND ADDITIONAL SYSTEM COMPONENT REQUIREMENTS WITH ACCESS CONTROL SYSTEM ALARM VENDOR/MANUFACTURER. COORDINATE SYSTEM OUTAGES WITH OWNER.

KEYED NOTES - E101P

- PROVIDE RAISED RECEPTACLE, DATA, AND HDMI CONNECTIONS FOR TV/MONITOR. COORDINATE EXACT HEIGHT OF DEVICES WITH OWNER PRIOR TO INSTALLATION.
- PROVIDE JUNCTION BOX AND CONDUIT FOR POWER ASSISTED DOOR OPERATOR. ELECTRICAL CONTRACTOR SHALL MAKE CONNECTION AND INSTALL HARDWARE PROVIDED BY OTHERS.
- ELECTRICAL CONTRACTOR TO FURNISH AND INSTALL SURFACE MOUNTED RACEWAY AT COUNTER. COORDINATE STRAIGHT RUNS OF RACEWAY WITH OWNER/ARCHITECT. STRAIGHT RACEWAY RUNS SHALL BE CONNECTED WITH CONDUIT WHERE REQUIRED.





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JDR PROJECT NO. 19.0361

Project Title:
**LA CRESCENT-HOKAH PUBLIC SCHOOLS
HIGH SCHOOL/ MIDDLE SCHOOL**

Project Location: 1301 LANCER BOULEVARD
LA CRESCENT, MINNESOTA

Project Number:
19014-1

Date:
3.5.2020

Drawn By:
JDR

Key Plan:

Project Title:
**LA CRESCENT-HOKAH PUBLIC SCHOOLS
HIGH SCHOOL/ MIDDLE SCHOOL**

Project Location: 1301 LANCER BOULEVARD
LA CRESCENT, MINNESOTA

Project Number:
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Date:
3.5.2020

Drawn By:
JDR

Key Plan:

Project Title:
**LA CRESCENT-HOKAH PUBLIC SCHOOLS
HIGH SCHOOL/ MIDDLE SCHOOL**

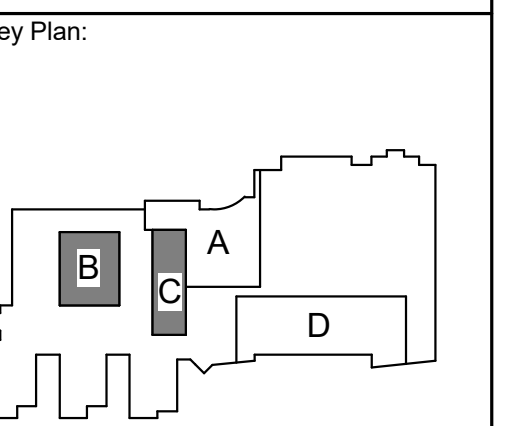
Project Location: 1301 LANCER BOULEVARD
LA CRESCENT, MINNESOTA

Project Number:
19014-1

Date:
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Drawn By:
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Key Plan:



KEY PLAN

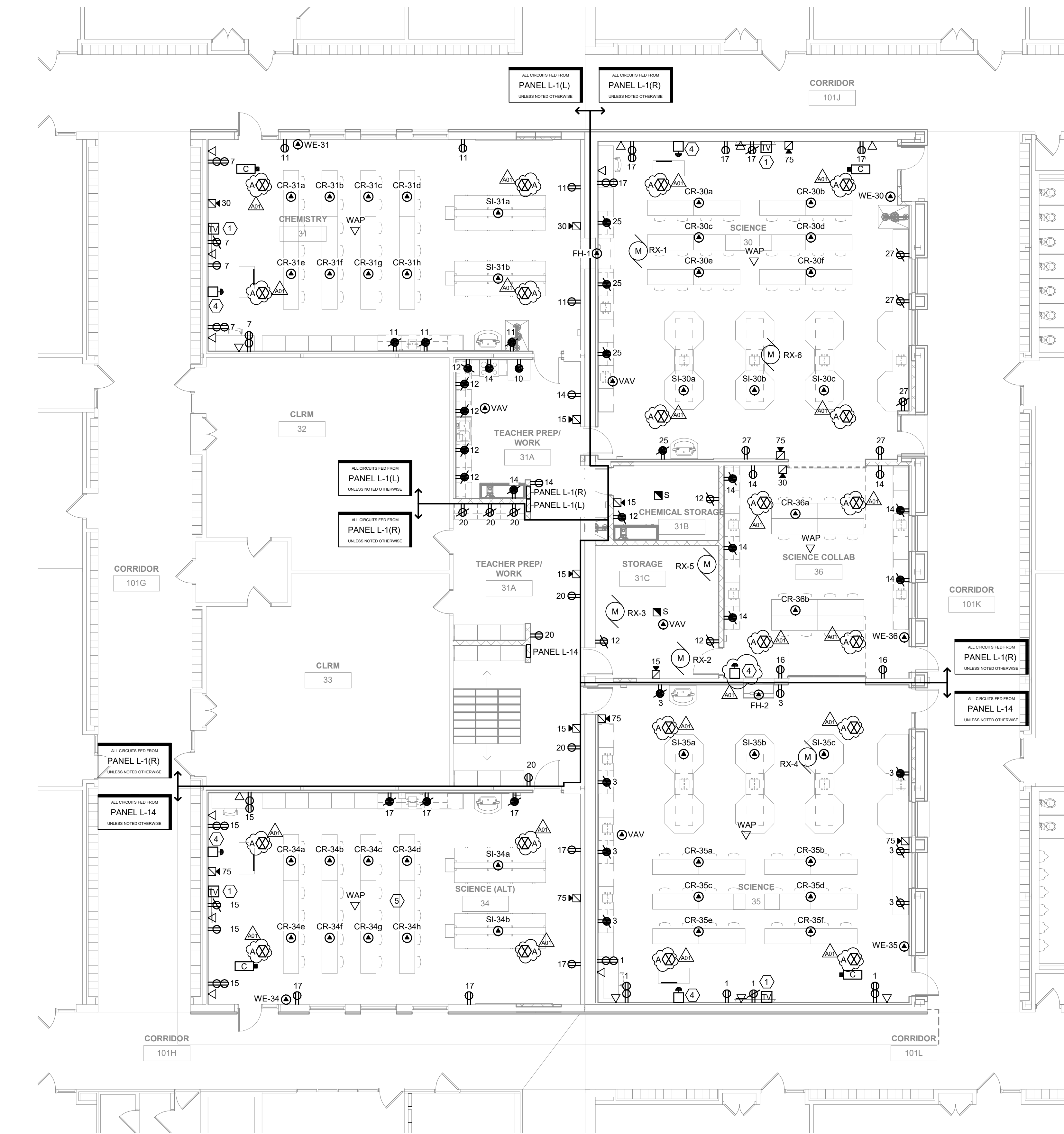
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DOCUMENTS**

No.	Description	Date
A01	ADDENDUM 1	3.16.20

Graphic Scale:
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Last Update:
3/16/2020 9:02:06 AM

E103P



1 FIRST FLOOR PLAN - POWER & SYSTEMS - AREA B

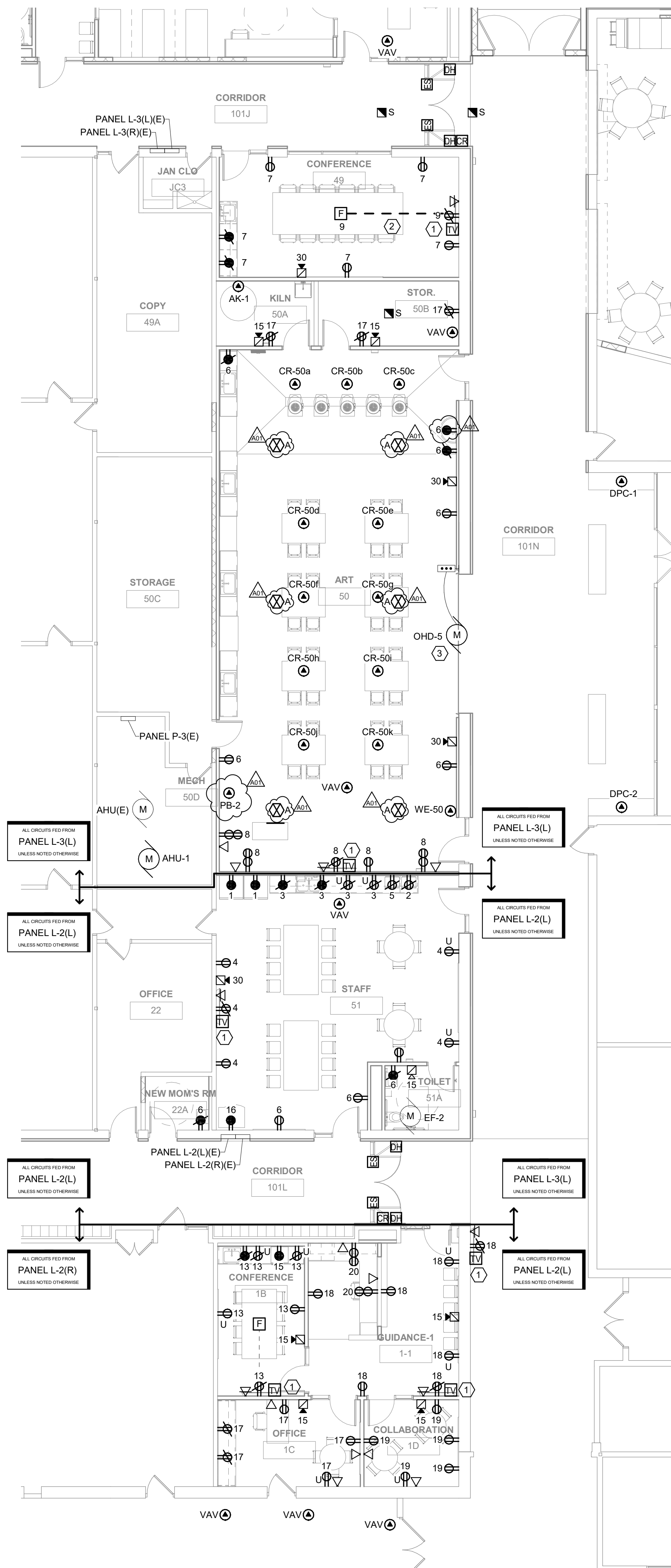
E103P SCALE: 1/8" = 1'-0"

GENERAL NOTES:

- REFER TO SHEET E000 FOR ALL SYMBOLS, ABBREVIATIONS AND SCHEDULES.
- COORDINATE ALL CONSTRUCTION PHASING WITH ARCHITECTURAL PLANS AND PROVIDE PHASING OF ELECTRICAL SYSTEMS AS REQUIRED. THIS INCLUDES COORDINATION OF THE NEW ELECTRICAL SERVICE WITH THE UTILITY TO ENSURE NEW SERVICE IS ONLINE PRIOR TO DEENERGIZING, DISCONNECTING, AND REMOVING EXISTING ELECTRICAL SERVICE.
- COORDINATE ALL WALL DEVICE LOCATIONS WITH ARCHITECTURAL ELEVATION PLANS AND WALL DEVICE LOCATIONS SHOWN ON LIGHTING PLANS.
- EXTEND NEW/EXISTING NOTIFIER FIRE ALARM SYSTEM THROUGHOUT BUILDING. FIRE ALARM SYSTEM DEVICES AND EQUIPMENT SHOWN ON THIS DRAWING INDICATES GENERAL PROJECT INTENT. THE ELECTRICAL CONTRACTORS FIRE ALARM SYSTEM VENDOR IS RESPONSIBLE FOR QUANTITIES, LAYOUT DESIGN AND CALCULATIONS OF THEIR SPECIFIC EQUIPMENT TO PROVIDE A COMPLETE FUNCTIONAL, CODE COMPLYING SYSTEM. ELECTRICAL CONTRACTOR SHALL PROVIDE FINAL DESIGN DOCUMENTS TO THE LOCAL AUTHORITY, AS REQUIRED, AND SHALL SUBMIT ALL PLANS/SPECS FOR LOCAL/STATE REVIEW, AS REQUIRED.
- PROVIDE ROUGH-IN FOR ALL LOW VOLTAGE SYSTEM DEVICES WITHIN THE ADDITIONS/RENOVATED AREAS AS SHOWN ON THIS PLAN AND AS REQUIRED. THIS INCLUDES, BUT IS NOT LIMITED TO AV SYSTEMS, TELECOMMUNICATIONS, INTERCOM, CLOCKS, CATV, SECURITY, AND CCTV. COORDINATE ALL LOW VOLTAGE SYSTEMS LOCATIONS AND REQUIREMENTS WITH OWNER TO CONFIRM COMPLETE SCOPE OF WORK. IN ADDITION, PROVIDE AC POWER CONNECTIONS TO LOW VOLTAGE SYSTEMS EQUIPMENT AS REQUIRED.
- USE OF MULTIWIRE BRANCH CIRCUITS SERVING LIGHTING CIRCUITS IN BOTH NEW AND EXISTING AREAS OF THE BUILDING IS NOT PERMITTED.
- CEILING PLENUMS ARE BEING USED AS A RETURN AIR PATH. ALL EQUIPMENT, CABLES, PATHWAYS, ETC. SHALL BE RATED FOR PLENUM INSTALLATION.
- PROVIDE A PRIMEX ONEVUE SYNC WIRELESS CLOCK SYSTEM THROUGHOUT RENOVATED AREAS OF BUILDING, AS SHOWN AND AS REQUIRED. PROVIDE BRIDGE WITH POE AND BLUETOOTH TECHNOLOGY, REPEATERS, CLOCKS (DIGITAL OR ANALOG, PER OWNER), SYSTEM SOFTWARE/MESH, ETC. AS REQUIRED FOR A COMPLETE SYSTEM THROUGHOUT THE RENOVATED AREAS OF BUILDING. LOCATE ANY ALL HEAD-END EQUIPMENT IN EXISTING MDF/IDF ROOMS. COORDINATE ALL REQUIREMENTS WITH OWNER AND PROVIDE PRODUCT SUBMITTALS, SAMPLES, PRODUCT DATA, AND OPERATION/INSTALLATION INSTRUCTIONS AS REQUIRED. PROVIDE TWO-YEAR WARRANTY ON ALL EQUIPMENT COMPONENTS. ANNUAL SYSTEMS PROPOSED TO BE PROVIDED AS AN EQUIVALENT SYSTEM SHALL BE REVIEWED WITH OWNER PRIOR TO BID.
- EXTEND EXISTING ALTRONIX/IDENTICARD ACCESS CONTROL SYSTEM THROUGHOUT BUILDING AS REQUIRED. REFER TO SHEET E102 FOR REVISED SYSTEM LOCATION. EXTEND ANY ALL EXISTING CIRCUITS, DEVICES, ETC. TO NEW LOCATION AS REQUIRED. FIELD VERIFY ALL REQUIREMENTS. COORDINATE ANY ALL REQUIREMENTS AND ADDITIONAL SYSTEM COMPONENT REQUIREMENTS WITH ACCESS CONTROL SYSTEM ALARM VENDOR/MANUFACTURER. COORDINATE SYSTEM OUTAGES WITH OWNER.

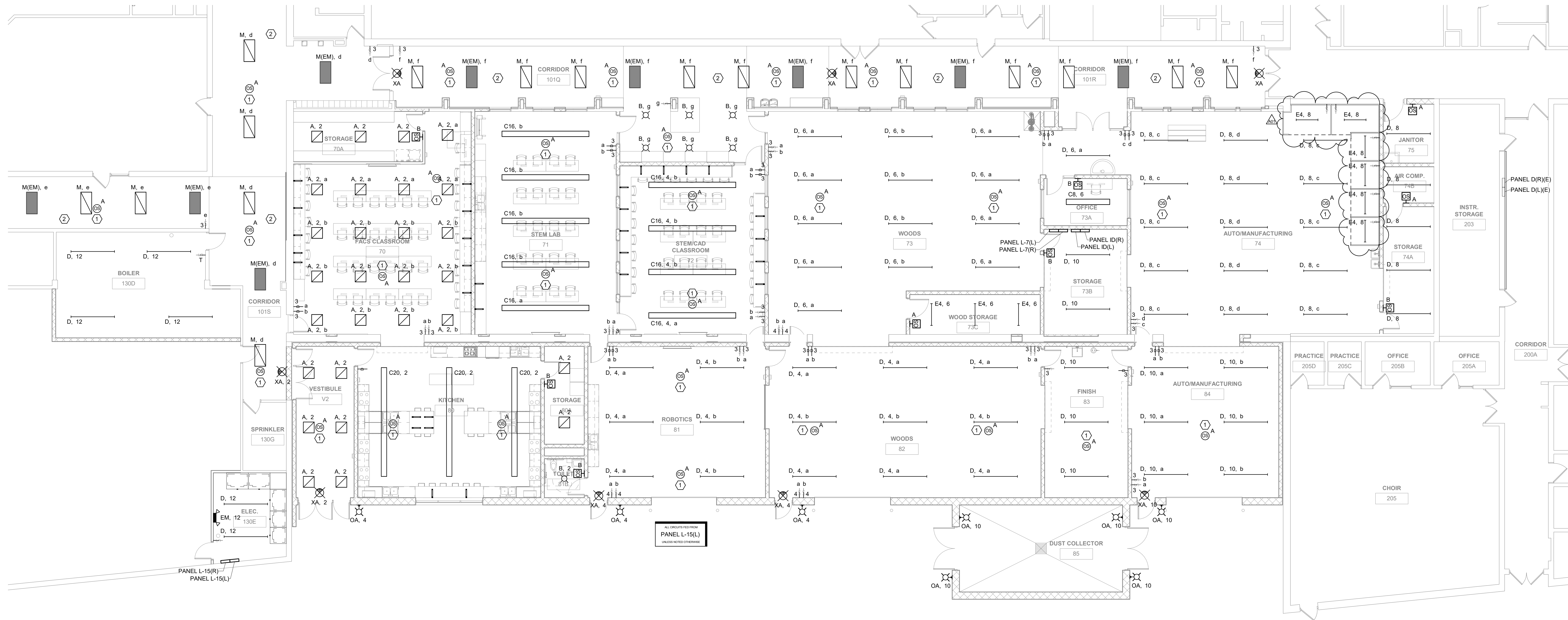
KEYED NOTES - E103P

- PROVIDE RAISED RECEPTACLE, DATA, AND HDMI CONNECTIONS FOR TV/MONITOR. COORDINATE EXACT HEIGHT OF DEVICES WITH OWNER PRIOR TO INSTALLATION.
- PROVIDE 1-1/2" CONDUIT FROM TV/MONITOR LOCATION TO FLOOR BOX AT CONFERENCE TABLE.
- PROVIDE CONNECTION TO NEW OVERHEAD DOOR AND CONTROLS.
- PROVIDE 120V POWER SUPPLY TO SHUTOFF VALVE AND EXTEND WIRING TO EMERGENCY SHUTOFF BUTTONS PROVIDED BY PLUMBING CONTRACTOR.
- ELECTRICAL CONTRACTOR TO PROVIDE ALTERNATE BID FOR SCIENCE ROOM 34.



2 FIRST FLOOR PLAN - POWER & SYSTEMS - AREA C

E103P SCALE: 1/8" = 1'-0"



1 FIRST FLOOR PLAN - LIGHTING - AREA D
E104L SCALE: 1/8" = 1'-0"

GENERAL NOTES:

- REFER TO SHEET E000 FOR ALL SYMBOLS, ABBREVIATIONS AND SCHEDULES.
- COORDINATE ALL CONSTRUCTION PHASING WITH ARCHITECTURAL PLANS AND PROVIDE PHASING OF ELECTRICAL SYSTEMS AS REQUIRED. THIS INCLUDES COORDINATION OF THE NEW ELECTRICAL SERVICE WITH THE UTILITY TO ENSURE NEW SERVICE IS ONLINE PRIOR TO DEENERGIZING, DISCONNECTING, AND REMOVING EXISTING ELECTRICAL SERVICE.
- REFER TO ARCHITECTURAL PLANS, SECTIONS, ELEVATIONS, AND REFLECTED CEILING PLANS FOR EXACT LOCATION AND COORDINATION OF ALL LIGHT FIXTURE INSTALLATIONS.
- EXIT SIGNAGE IS INDICATED ON THE PLANS BASED ON ANTICIPATED EGRESS PATHS THROUGHOUT THE BUILDING. ELECTRICAL CONTRACTOR SHALL CONFIRM ALL EGRESS PATHS WITH ARCHITECT/OWNER/GENERAL CONTRACTOR DURING CONSTRUCTION AND SHALL ADD/MODIFY EXIT SIGNAGE AS REQUIRED.
- CONNECT NEW EXTERIOR LIGHTING TO EXISTING EXTERIOR LIGHTING CONTROLS.
- OCCUPANCY SENSOR LOCATIONS ARE SHOWN DIAGRAMMATICALLY ONLY. ACTUAL LOCATIONS TO BE DETERMINED IN FIELD PER MANUFACTURER'S RECOMMENDATIONS AND LAYOUT. PROVIDE A MINIMUM 4'-0" OF FLEX CONDUIT/WIRING SO SENSOR CAN BE FIELD ADJUSTED FOR PROPER COVERAGE DURING FINAL TESTING. FACTORY TRAINED PERSONNEL SHALL PERFORM THE FINAL TIME AND SENSITIVITY SETTING, COVERAGE AND/OR AIMING ADJUSTMENTS, AND TESTING. CEILING SENSOR RELAYS TO BE CONNECTED IN SERIES WITH ALL OTHER LIGHTING CONTROLS IN EACH ROOM. DAYLIGHT SENSORS SHALL BE CONNECTED TO ALL FIXTURES WITHIN CODE DEFINED DAYLIGHTING ZONES. LIGHT LEVEL CHANGES SHALL BE GRADUAL (NOT STEPPED).
- USE OF MULTIWIRE BRANCH CIRCUITS SERVING LIGHTING CIRCUITS IN BOTH NEW AND EXISTING AREAS OF THE BUILDING IS NOT PERMITTED.
- CEILING PLENUMS ARE BEING USED AS A RETURN AIR PATH. ALL EQUIPMENT, CABLES, PATHWAYS, ETC. SHALL BE RATED FOR PLENUM INSTALLATION. REFER TO SHEETS M118 AND M119 FOR MORE INFORMATION.

KEYED NOTES - E104L

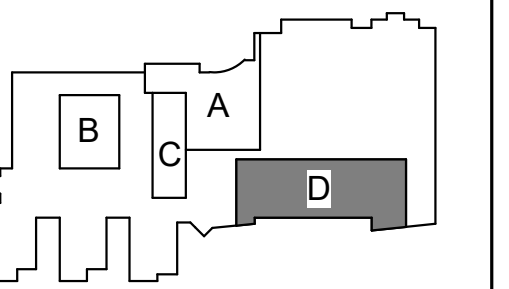
- WIRE SENSOR IN PARALLEL WITH OTHER SENSOR(S) IN THE AREA.
- CONNECT NEW LIGHTING TO EXISTING CIRCUITS. REVISE SWITCHING AS REQUIRED.

**LA CRESCENT-HOKAH PUBLIC SCHOOLS
HIGH SCHOOL/ MIDDLE SCHOOL**
FIRST FLOOR PLAN - LIGHTING - AREA D

Project Title:
Project Location: 1301 LANCER BOULEVARD
LA CRESCENT, MINNESOTA

Project Number:
19014-1
Project Date:
3.5.2020
Drawn By:
JDR

Key Plan:



KEY PLAN

**BID
DOCUMENTS**

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A01	ADDENDUM 1	3.16.20

Graphic Scale:
0 2' 4' 8' 12'

Last Update:
3/13/2020 11:01:33 AM

E104L



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JDR PROJECT NO. 19.0361

**LA CRESCENT-HOKAH PUBLIC SCHOOLS
HIGH SCHOOL/ MIDDLE SCHOOL**

Project Location: 1301 LANCER BOULEVARD
LA CRESCENT, MINNESOTA

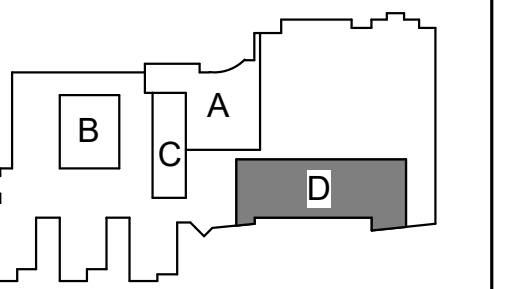
FIRST FLOOR PLAN - POWER & SYSTEMS - AREA D

Project Title:
HSR Project Number:
19014-1

Project Date:
3.5.2020

Drawn By:
JDR

Key Plan:



KEY PLAN

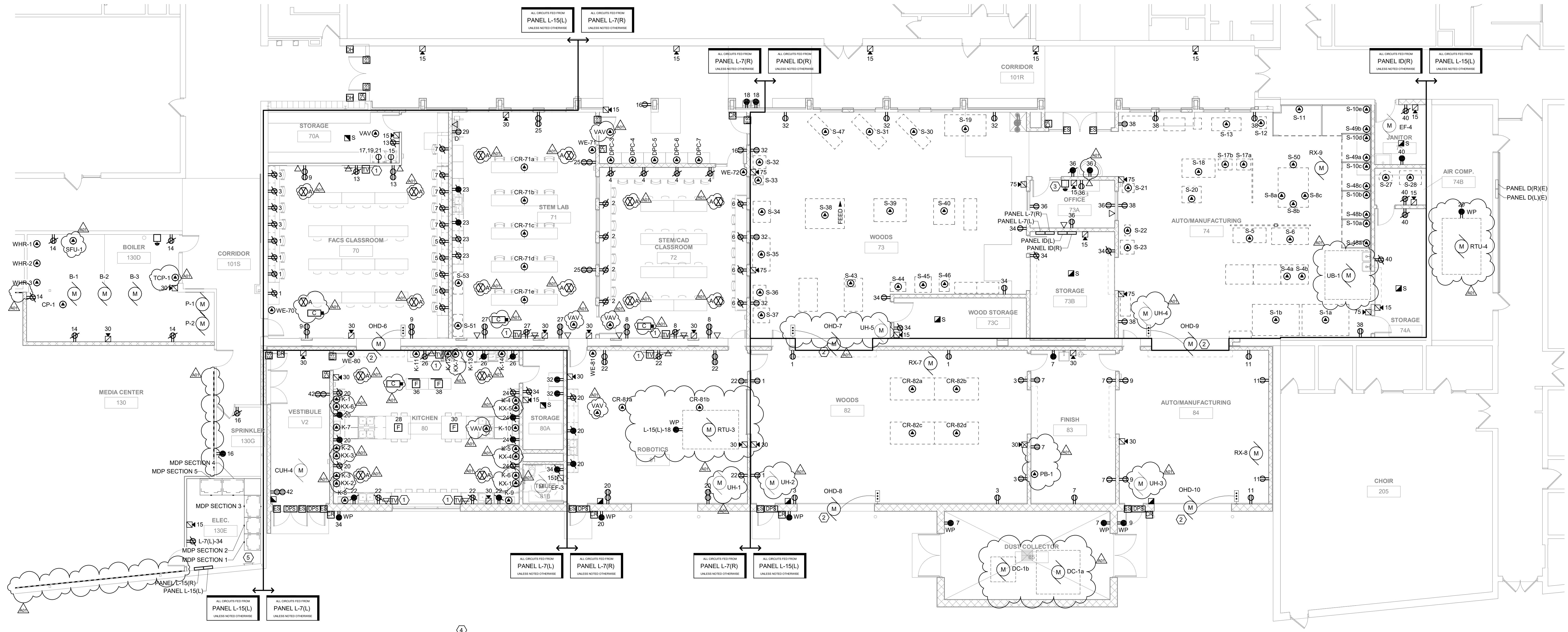
**BID
DOCUMENTS**

No.	Description	Date
A01	ADDENDUM 1	3.16.20

Graphic Scale:
0' 2' 4' 8' 12'

Last Update:
3/16/2020 8:32:58 AM

E104P



1 FIRST FLOOR PLAN - POWER & SYSTEMS - AREA D
E104P SCALE: 1/8" = 1'-0"

GENERAL NOTES:

- REFER TO SHEET E000 FOR ALL SYMBOLS, ABBREVIATIONS AND SCHEDULES.
- COORDINATE ALL CONSTRUCTION PHASING WITH ARCHITECTURAL PLANS AND PROVIDE PHASING OF ELECTRICAL SYSTEMS AS REQUIRED. THIS INCLUDES COORDINATION OF THE NEW ELECTRICAL SERVICE WITH THE UTILITY TO ENSURE NEW SERVICE IS ONLINE PRIOR TO DEENERGIZING, DISCONNECTING, AND REMOVING EXISTING ELECTRICAL SERVICE.
- COORDINATE ALL WALL DEVICE LOCATIONS WITH ARCHITECTURAL ELEVATION PLANS AND WALL DEVICE LOCATIONS SHOWN ON LIGHTING PLANS.
- EXTEND NEW/EXISTING NOTIFIER FIRE ALARM SYSTEM THROUGHOUT BUILDING. FIRE ALARM SYSTEM DEVICES AND EQUIPMENT SHOWN ON THIS DRAWING INDICATES GENERAL PROJECT INTENT. THE ELECTRICAL CONTRACTORS FIRE ALARM SYSTEM VENDOR IS RESPONSIBLE FOR QUANTITIES, LAYOUT DESIGN AND CALCULATIONS OF THEIR SPECIFIC EQUIPMENT TO PROVIDE A COMPLETE FUNCTIONAL CODE COMPLYING SYSTEM. ELECTRICAL CONTRACTOR SHALL PROVIDE FINAL DESIGN DOCUMENTS TO THE LOCAL AUTHORITY, AS REQUIRED, AND SHALL SUBMIT ALL PLANS/SPECS FOR LOCAL/STATE REVIEW, AS REQUIRED.
- PROVIDE ROUGH-IN FOR ALL LOW VOLTAGE SYSTEM DEVICES WITHIN THE ADDITIONS/RENOVATED AREAS AS SHOWN ON THIS PLAN AND AS REQUIRED. THIS INCLUDES, BUT IS NOT LIMITED TO ANY SYSTEMS; TELECOMMUNICATIONS, INTERCOM, CLOCKS, CATV, SECURITY, AND CCTV. COORDINATE ALL LOW VOLTAGE SYSTEMS LOCATIONS AND REQUIREMENTS WITH OWNER TO CONFIRM COMPLETE SCOPE OF WORK. IN ADDITION, PROVIDE AC POWER CONNECTIONS TO LOW VOLTAGE SYSTEMS EQUIPMENT AS REQUIRED.
- USE OF MULTIWIRE BRANCH CIRCUITS SERVING LIGHTING CIRCUITS IN BOTH NEW AND EXISTING AREAS OF THE BUILDING IS NOT PERMITTED.
- CEILING PLENUMS ARE BEING USED AS A RETURN AIR PATH. ALL EQUIPMENT, CABLES, PATHWAYS, ETC. SHALL BE RATED FOR PLENUM INSTALLATION.
- PROVIDE A PRIMEX ONEVUE SYNC WIRELESS CLOCK SYSTEM THROUGHOUT RENOVATED AREAS OF BUILDING, AS SHOWN AND AS REQUIRED. PROVIDE BRIDGE WITH POE AND BLUETOOTH TECHNOLOGY. REPEATERS, CLOCKS (DIGITAL OR ANALOG, PER OWNER), SYSTEM SOFTWARE/MESH, ETC. AS REQUIRED FOR A COMPLETE SYSTEM THROUGHOUT THE RENOVATED AREAS OF BUILDING. LOCATE ANY/ALL HEAD-END EQUIPMENT IN EXISTING MDP/IDF ROOMS. COORDINATE ALL REQUIREMENTS WITH OWNER AND PROVIDE PRODUCT SUBMITTALS, SAMPLES, PRODUCT DATA, AND OPERATION/INSTALLATION INSTRUCTIONS AS REQUIRED. PROVIDE TWO-YEAR WARRANTY ON ALL EQUIPMENT COMPONENTS. ANY/ALL SYSTEMS PROPOSED TO BE PROVIDED AS AN EQUIVALENT SYSTEM SHALL BE REVIEWED WITH OWNER PRIOR TO BID.
- EXTEND EXISTING ALTRONIX IDENTICARD ACCESS CONTROL SYSTEM THROUGHOUT BUILDING AS REQUIRED. REFER TO SHEET E102 FOR REVISED SYSTEM LOCATION. EXTEND ANY/ALL EXISTING CIRCUITS, DEVICES, ETC. TO NEW LOCATION AS REQUIRED. FIELD VERIFY ALL REQUIREMENTS. COORDINATE ANY/ALL REQUIREMENTS AND ADDITIONAL SYSTEM COMPONENT REQUIREMENTS WITH ACCESS CONTROL SYSTEM ALARM VENDOR/MANUFACTURER. COORDINATE SYSTEM OUTAGES WITH OWNER.

KEYED NOTES - E104P

- PROVIDE RAISED RECEPTACLE, DATA, AND HDMI CONNECTIONS FOR TV/MONITOR. COORDINATE EXACT HEIGHT OF DEVICES WITH OWNER PRIOR TO INSTALLATION.
- PROVIDE CONNECTION TO NEW OVERHEAD DOOR AND CONTROLS.
- PROVIDE EMERGENCY E-STOP MUSHROOM STYLE PUSH BUTTON THAT WILL DISCONNECT POWER TO ALL SHOP EQUIPMENT IN ROOMS 73, 74, 82, AND 84. PROVIDE SHUNT TRIP CONNECTION TO MAIN BREAKER FOR PANEL ID.
- NEW XCEL ENERGY UTILITY ELECTRICAL SERVICE TO BE INSTALLED AND ENERGIZED PRIOR TO DEMOLITION OF THE EXISTING UTILITY ELECTRICAL SERVICE TO THE BUILDING. REFER TO ARCHITECTURAL PLANS FOR PROJECT PHASING. COORDINATE ANY/ALL NEW SERVICE REQUIREMENTS (CT/METE).
- ELECTRICAL CONTRACTOR TO PROVIDE NEW 1/4"x2"x24" COPPER GROUNDING BUS BAR WITH #6 COPPER GROUND CONDUCTORS IN A 1" CONDUIT TO NEW ELECTRICAL ROOM. REFER TO 6/E900 AND 1/E901 FOR TYPICAL GROUNDING DETAILS.



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JDR PROJECT NO. 19.0361

**LA CRESCENT-HOKAH PUBLIC SCHOOLS
HIGH SCHOOL/ MIDDLE SCHOOL**
NEW/EXISTING ONE-LINE DIAGRAM - ELECTRICAL

Project Title:
Project Location: 1301 LANCER BOULEVARD
LA CRESCENT, MINNESOTA

Project Number:
19014-1
Project Date:
3.5.2020
Drawn By:
JDR

Key Plan:

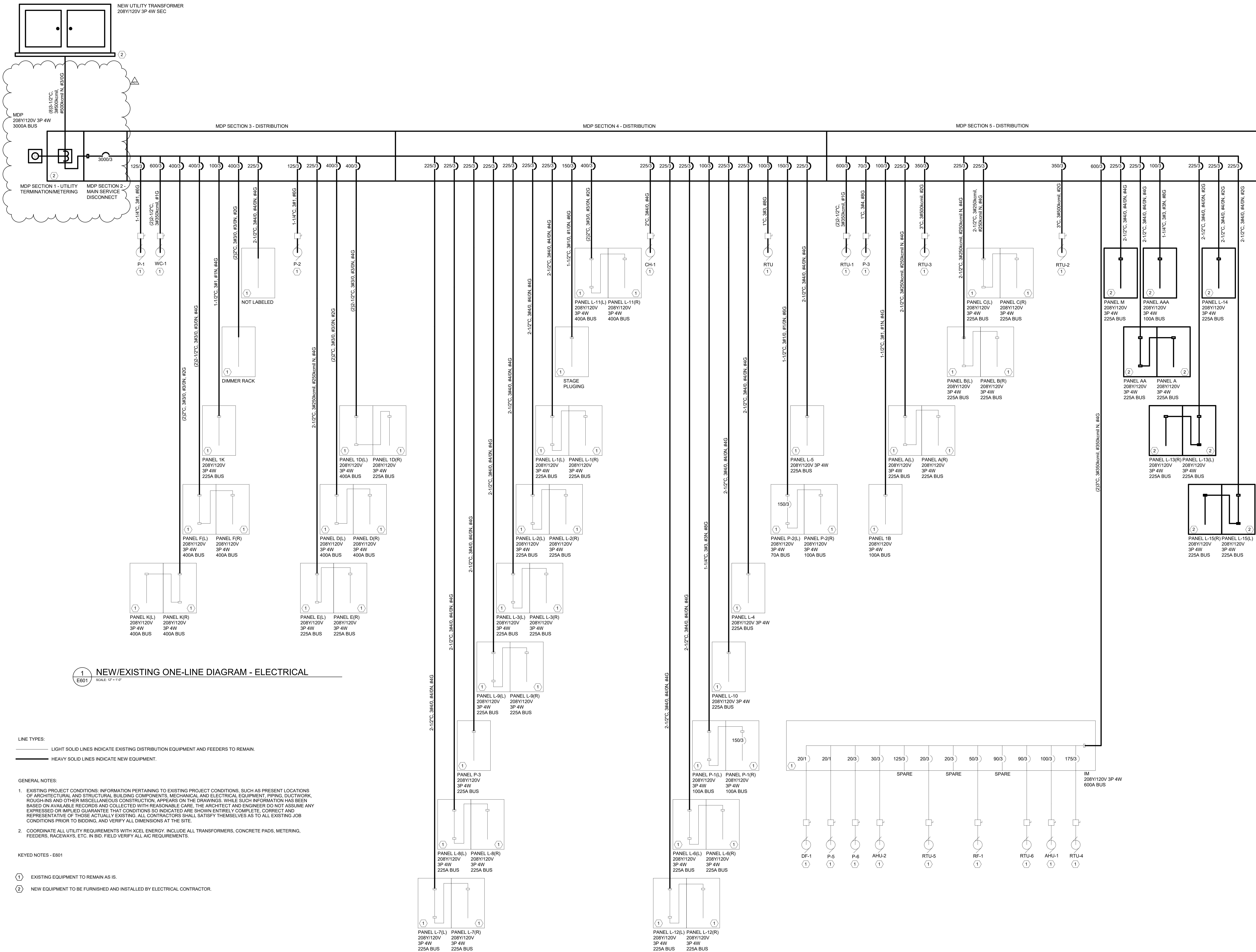
**BID
DOCUMENTS**

No.	Description	Date
A01	ADDENDUM 1	3.16.20

Graphic Scale:

Last Update:
3/13/2020 11:02:22 AM

E601



1
E601
SCALE: 1" = 1'-0"

LINE TYPES:
 LIGHT SOLID LINES INDICATE EXISTING DISTRIBUTION EQUIPMENT AND FEEDERS TO REMAIN.
 HEAVY SOLID LINES INDICATE NEW EQUIPMENT.

GENERAL NOTES:
 1. EXISTING PROJECT CONDITIONS: INFORMATION PERTAINING TO EXISTING PROJECT CONDITIONS, SUCH AS PRESENT LOCATIONS OF ARCHITECTURAL AND STRUCTURAL BUILDING COMPONENTS, MECHANICAL AND ELECTRICAL EQUIPMENT, PIPING, DUCTWORK, ROUGH-INS AND OTHER MISCELLANEOUS CONSTRUCTION, APPEARS ON THE DRAWINGS. WHILE SUCH INFORMATION HAS BEEN BASED ON AVAILABLE RECORDS AND COLLECTED WITH REASONABLE CARE, THE ARCHITECT AND ENGINEER DO NOT ASSUME ANY EXPRESSED OR IMPLIED GUARANTEE THAT CONDITIONS SO INDICATED ARE SHOWN ENTIRELY COMPLETE, CORRECT AND REPRESENTATIVE OF THOSE ACTUALLY EXISTING. ALL CONTRACTORS SHALL SATISFY THEMSELVES AS TO ALL EXISTING JOB CONDITIONS PRIOR TO BIDDING, AND VERIFY ALL DIMENSIONS AT THE SITE.
 2. COORDINATE ALL UTILITY REQUIREMENTS WITH XCEL ENERGY. INCLUDE ALL TRANSFORMERS, CONCRETE PADS, METERING, FEEDERS, RACEWAYS, ETC. IN BID. FIELD VERIFY ALL AIC REQUIREMENTS.

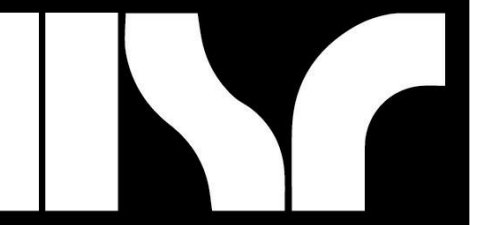
KEYED NOTES - E601
 ① EXISTING EQUIPMENT TO REMAIN AS IS.
 ② NEW EQUIPMENT TO BE FURNISHED AND INSTALLED BY ELECTRICAL CONTRACTOR.

WT	DESCRIPTION	VOLTS	AMPS	KVA	HP	BREAKER	FEEDER	CIRCUIT	NOTES
AHU-1	AIR HANDLING UNIT	208V 3P 3W	11.1 A	4 kVA		20	12/C, 3#12, #12N, #12G	L-3(R)E-1,3,5	ELECTRICAL CONTRACTOR TO PROVIDE DISCONNECT AT UNIT.
B-1	BOILER	208V 3P 3W	29 A	10.45 kVA	60		1-1/4"C, 3#4, #4N, #10G	L-15(R)-1,3,5	ELECTRICAL CONTRACTOR TO PROVIDE DISCONNECT AT UNIT.
B-2	BOILER	208V 3P 3W	29 A	10.45 kVA	60		1-1/4"C, 3#4, #4N, #10G	L-15(R)-7,9,11	ELECTRICAL CONTRACTOR TO PROVIDE DISCONNECT AT UNIT.
B-3	BOILER	208V 3P 3W	29 A	10.45 kVA	60		1-1/4"C, 3#4, #4N, #10G	L-15(R)-13,15,17	ELECTRICAL CONTRACTOR TO PROVIDE DISCONNECT AT UNIT.
CP-1	CIRCULATION PUMP	120V 1P 2W	13.1 A	1.57 kVA	20		1/2"C, #12, #12N, #12G	L-15(R)-2	ELECTRICAL CONTRACTOR TO PROVIDE DISCONNECT AT UNIT.
CUH-1	CABINET UNIT HEATER	120V 1P 2W	5.8 A	0.7 kVA	20		1/2"C, #12, #12N, #12G	L-13(R)-16	ELECTRICAL CONTRACTOR TO PROVIDE DISCONNECT AT UNIT.
CUH-2	CABINET UNIT HEATER	120V 1P 2W	5.8 A	0.7 kVA	20		1/2"C, #12, #12N, #12G	L-13(R)-18	ELECTRICAL CONTRACTOR TO PROVIDE DISCONNECT AT UNIT.
CUH-3	CABINET UNIT HEATER	120V 1P 2W	0.83 A	0.1 kVA	20		1/2"C, #12, #12N, #12G	L-13(R)-16	ELECTRICAL CONTRACTOR TO PROVIDE DISCONNECT AT UNIT.
CUH-4	CABINET UNIT HEATER	120V 1P 2W	0.83 A	0.1 kVA	20		1/2"C, #12, #12N, #12G	L-7(L)-1,6	ELECTRICAL CONTRACTOR TO PROVIDE DISCONNECT AT UNIT.
DC-1a	DUST COLLECTOR - AFTER FILTER	208V 3P 3W	92.3 A	33.25 kVA	125		1-1/2"C, 3-1/0, #10N, #6G	MDP SECTION 5-12	ELECTRICAL CONTRACTOR TO PROVIDE DISCONNECT AT UNIT.
DC-1b	DUST COLLECTOR - CYCLONE	208V 3P 3W	3.7 A	1.33 kVA	20		1/2"C, #12, #12N, #12G	L-15(L)-24,26,28	ELECTRICAL CONTRACTOR TO PROVIDE DISCONNECT AT UNIT.
EF-1	EXHAUST FAN	120V 1P 2W	0.83 A	0.1 kVA	20		1/2"C, #12, #12N, #12G	L-13(R)-16	ELECTRICAL CONTRACTOR TO PROVIDE DISCONNECT AT UNIT.
EF-2	EXHAUST FAN	120V 1P 2W	0.83 A	0.1 kVA	20		1/2"C, #12, #12N, #12G	L-2(L)E-8	ELECTRICAL CONTRACTOR TO PROVIDE DISCONNECT AT UNIT.
EF-3	EXHAUST FAN	120V 1P 2W	0.83 A	0.1 kVA	20		1/2"C, #12, #12N, #12G	L-7(L)-3,4	ELECTRICAL CONTRACTOR TO PROVIDE DISCONNECT AT UNIT.
EF-4	EXHAUST FAN	120V 1P 2W	0.83 A	0.1 kVA	20		1/2"C, #12, #12N, #12G	L-7(L)-1,6	ELECTRICAL CONTRACTOR TO PROVIDE DISCONNECT AT UNIT.
HCP-1	HEATING COIL PUMP	120V 1P 2W	5.8 A	0.7 kVA	20		1/2"C, #12, #12N, #12G	P-1(U)E-16	ELECTRICAL CONTRACTOR TO PROVIDE DISCONNECT AT UNIT.
HCP-2	HEATING COIL PUMP	120V 1P 2W	5.8 A	0.7 kVA	20		1/2"C, #12, #12N, #12G	P-1(U)E-16	ELECTRICAL CONTRACTOR TO PROVIDE DISCONNECT AT UNIT.
HCP-3	HEATING COIL PUMP	120V 1P 2W	5.8 A	0.7 kVA	20		1/2"C, #12, #12N, #12G	P-1(U)E-34	ELECTRICAL CONTRACTOR TO PROVIDE DISCONNECT AT UNIT.
KX-1	KITCHEN EXHAUST HOOD	120V 1P 2W	1.6 A	0.19 kVA	20		1/2"C, #12, #12N, #12G	L-7(R)-28	ELECTRICAL CONTRACTOR TO PROVIDE DISCONNECT AT UNIT.
KX-2	KITCHEN EXHAUST HOOD	120V 1P 2W	1.6 A	0.19 kVA	20		1/2"C, #12, #12N, #12G	L-7(R)-28	ELECTRICAL CONTRACTOR TO PROVIDE DISCONNECT AT UNIT.
KX-3	KITCHEN EXHAUST HOOD	120V 1P 2W	1.6 A	0.19 kVA	20		1/2"C, #12, #12N, #12G	L-7(R)-28	ELECTRICAL CONTRACTOR TO PROVIDE DISCONNECT AT UNIT.
KX-4	KITCHEN EXHAUST HOOD	120V 1P 2W	1.6 A	0.19 kVA	20		1/2"C, #12, #12N, #12G	L-7(R)-28	ELECTRICAL CONTRACTOR TO PROVIDE DISCONNECT AT UNIT.
KX-5	KITCHEN EXHAUST HOOD	120V 1P 2W	1.6 A	0.19 kVA	20		1/2"C, #12, #12N, #12G	L-7(R)-28	ELECTRICAL CONTRACTOR TO PROVIDE DISCONNECT AT UNIT.
KX-6	KITCHEN EXHAUST HOOD	120V 1P 2W	1.6 A	0.19 kVA	20		1/2"C, #12, #12N, #12G	L-7(R)-28	ELECTRICAL CONTRACTOR TO PROVIDE DISCONNECT AT UNIT.
KX-7	KITCHEN EXHAUST HOOD	120V 1P 2W	1.6 A	0.19 kVA	20		1/2"C, #12, #12N, #12G	L-7(R)-28	ELECTRICAL CONTRACTOR TO PROVIDE DISCONNECT AT UNIT.
P-3	BOILER PUMP	208V 3P 3W	62.3 A	22.44 kVA	100		1-1/2"C, 3#1, #1N, #6G	MDP SECTION 5-4	ELECTRICAL CONTRACTOR TO CONNECT FEEDER WIRING TO VFD PROVIDED BY HVAC CONTRACTOR. ELECTRICAL CONTRACTOR TO MOUNT VFD.
P-2	PUMP	120V 1P 2W	5.8 A	0.7 kVA	20		1/2"C, #12, #12N, #12G	P-1(U)E-26	ELECTRICAL CONTRACTOR TO PROVIDE DISCONNECT AT UNIT.
PB-1	PAINT BOOTH	120V 1P 2W	13.8 A	1.66 kVA	20		1/2"C, #12, #12N, #12G	L-15(L)-30	ELECTRICAL CONTRACTOR TO PROVIDE DISCONNECT AT UNIT.
PB-2	PAINT BOOTH	120V 1P 2W	10 A	1.2 kVA	20		1/2"C, #12, #12N, #12G	L-3(U)E-14	ELECTRICAL CONTRACTOR TO PROVIDE DISCONNECT AT UNIT.
RTU-1	ROOF TOP UNIT	208V 3P 3W	42 A	15.13 kVA	80		1-1/4"C, 3#4, #4N, #10G	L-13(R)-4,6	ELECTRICAL CONTRACTOR TO PROVIDE DISCONNECT AT UNIT.
RTU-2	ROOF TOP UNIT	208V 3P 3W	42 A	15.13 kVA	80		1-1/4"C, 3#4, #4N, #10G	L-13(R)-10,12	ELECTRICAL CONTRACTOR TO PROVIDE DISCONNECT AT UNIT.
RTU-3	ROOF TOP UNIT	208V 3P 3W	68 A	24.5 kVA	90		1-1/4"C, 3#2, #2N, #6G	MDP SECTION 5-10	ELECTRICAL CONTRACTOR TO PROVIDE DISCONNECT AT UNIT.
RTU-4	ROOF TOP UNIT	208V 3P 3W	68 A	24.5 kVA	90		1-1/4"C, 3#2, #2N, #6G	MDP SECTION 5-11	ELECTRICAL CONTRACTOR TO PROVIDE DISCONNECT AT UNIT.
RX-1	ROOF EXHAUSTER	208V 3P 3W	2.5 A	0.9 kVA	20		1/2"C, #12, #12N, #12G	L-14-2.4,6	ELECTRICAL CONTRACTOR TO PROVIDE DISCONNECT AT UNIT.
RX-2	ROOF EXHAUSTER	208V 3P 3W	2.5 A	0.9 kVA	20		1/2"C, #12, #12N, #12G	L-14-14, 18	ELECTRICAL CONTRACTOR TO PROVIDE DISCONNECT AT UNIT.
RX-3	ROOF EXHAUSTER	208V 3P 3W	2.5 A	0.9 kVA	20		1/2"C, #12, #12N, #12G	L-14-8, 10, 12	ELECTRICAL CONTRACTOR TO PROVIDE DISCONNECT AT UNIT.
RX-4	ROOF EXHAUSTER	208V 3P 3W	2.5 A	0.9 kVA	20		1/2"C, #12, #12N, #12G	L-14-14, 18, 18	ELECTRICAL CONTRACTOR TO PROVIDE DISCONNECT AT UNIT.
RX-5	ROOF EXHAUSTER	208V 3P 3W	2.5 A	0.9 kVA	20		1/2"C, #12, #12N, #12G	L-14-8, 10, 12	ELECTRICAL CONTRACTOR TO PROVIDE DISCONNECT AT UNIT.
RX-6	ROOF EXHAUSTER	208V 3P 3W	2.5 A	0.9 kVA	20		1/2"C, #12, #12N, #12G	L-14-2.4,6	ELECTRICAL CONTRACTOR TO PROVIDE DISCONNECT AT UNIT.
RX-7	ROOF EXHAUSTER	208V 3P 3W	2.5 A	0.9 kVA	20		1/2"C, #12, #12N, #12G	L-15(L)-23,25,27	ELECTRICAL CONTRACTOR TO PROVIDE DISCONNECT AT UNIT.
RX-8	ROOF EXHAUSTER	208V 3P 3W	2.5 A	0.9 kVA	20		1/2"C, #12, #12N, #12G	L-15(L)-23,25,27	ELECTRICAL CONTRACTOR TO PROVIDE DISCONNECT AT UNIT.
RX-9	ROOF EXHAUSTER	208V 3P 3W	2.5 A	0.9 kVA	20		1/2"C, #12, #12N, #12G	L-15(L)-23,25,27	ELECTRICAL CONTRACTOR TO PROVIDE DISCONNECT AT UNIT.
SFU-1	SYSTEM FEEDER UNIT	120V 1P 2W	1.5 A	0.18 kVA	20		1/2"C, #12, #12N, #12G	L-15(L)-29	ELECTRICAL CONTRACTOR TO PROVIDE DISCONNECT AT UNIT.
TOP-1	TEMPERATURE CONTROL PANEL	120V 1P 2W	10 A	1.2 kVA	20		1/2"C, #12, #12N, #12G	L-15(L)-31	ELECTRICAL CONTRACTOR TO PROVIDE DISCONNECT AT UNIT.
UB-1	UTILITY BLOWER	208V 3P 3W	17.5 A	6.3 kVA	30		1/2"C, #10, #10N, #10G	L-15(R)-10,12,14	ELECTRICAL CONTRACTOR TO PROVIDE DISCONNECT AT UNIT.
UH-1	UNIT HEATER	120V 1P 2W	3.9 A	0.47 kVA	20		1/2"C, #12, #12N, #12G	L-15(R)-16	ELECTRICAL CONTRACTOR TO PROVIDE DISCONNECT AT UNIT.
UH-2	UNIT HEATER	120V 1P 2W	3.9 A	0.47 kVA	20		1/2"C, #12, #12N, #12G	L-15(R)-16	ELECTRICAL CONTRACTOR TO PROVIDE DISCONNECT AT UNIT.
UH-3	UNIT HEATER	120V 1P 2W	3.9 A	0.47 kVA	20		1/2"C, #12, #12N, #12G	L-15(R)-18	ELECTRICAL CONTRACTOR TO PROVIDE DISCONNECT AT UNIT.
UH-4	UNIT HEATER	120V 1P 2W	3.9 A	0.47 kVA	20		1/2"C, #12, #12N, #12G	L-15(R)-18	ELECTRICAL CONTRACTOR TO PROVIDE DISCONNECT AT UNIT.
UH-5	UNIT HEATER	120V 1P 2W	3.9 A	0.47 kVA	20		1/2"C, #12, #12N, #12G	L-15(R)-18	ELECTRICAL CONTRACTOR TO PROVIDE DISCONNECT AT UNIT.
VAV	VARIABLE AIR VOLUME BOX	120V 1P 2W	1.1 A	0.14 kVA	20		1/2"C, #12, #12N, #12G	SEE PANEL SCHEDULES	ELECTRICAL CONTRACTOR TO PROVIDE DISCONNECT AT UNIT.
WHR-1	WATER HEATER	120V 1P 2W	5 A	0.6 kVA	20		1/2"C, #12, #12N, #12G	L-15(R)-4	ELECTRICAL CONTRACTOR TO PROVIDE DISCONNECT AT UNIT.
WHR-2	WATER HEATER	120V 1P 2W	5 A	0.6 kVA	20		1/2"C, #12, #12N, #12G	L-15(R)-6	ELECTRICAL CONTRACTOR TO PROVIDE DISCONNECT AT UNIT.
WHR-3	WATER HEATER	120V 1P 2W	5 A	0.6 kVA	20		1/2"C, #12, #12N, #12G	L-15(R)-8	ELECTRICAL CONTRACTOR TO PROVIDE DISCONNECT AT UNIT.

CALLOUT	DESCRIPTION	VOLTS	AMPS	KVA	BREAKER	FEEDER	CIRCUIT	NOTES	
K-1	RANGE	208V 3P 3W	40 A	14.41 kVA	50		1"C, 3#6, #6N, #10G	L-7(L)-1,3,5	ELECTRICAL CONTRACTOR TO PROVIDE CONNECTION AS SHOWN ON DRAWING. COORDINATE RECEPTACLE NEMA CONFIGURATION/DISCONNECT AS REQUIRED. COORDINATE EXACT LOCATION WITH OWNER.
K-2	RANGE	208V 3P 3W	40 A	14.41 kVA	50		1"C, 3#6, #6N, #10G	L-7(L)-9,11,13	ELECTRICAL CONTRACTOR TO PROVIDE CONNECTION AS SHOWN ON DRAWING. COORDINATE RECEPTACLE NEMA CONFIGURATION/DISCONNECT AS REQUIRED. COORDINATE EXACT LOCATION WITH OWNER.
K-3	RANGE	208V 3P 3W	40 A	14.41 kVA	50		1"C, 3#6, #6N, #10G	L-7(L)-15,17,19	ELECTRICAL CONTRACTOR TO PROVIDE CONNECTION AS SHOWN ON DRAWING. COORDINATE RECEPTACLE NEMA CONFIGURATION/DISCONNECT AS REQUIRED. COORDINATE EXACT LOCATION WITH OWNER.
K-4	RANGE	208V 3P 3W	40 A	14.41 kVA	50		1"C, 3#6, #6N, #10G	L-7(L)-2,4,6	ELECTRICAL CONTRACTOR TO PROVIDE CONNECTION AS SHOWN ON DRAWING. COORDINATE RECEPTACLE NEMA CONFIGURATION/DISCONNECT AS REQUIRED. COORDINATE EXACT LOCATION WITH OWNER.
K-5	RANGE	208V 3P 3W	40 A	14.41 kVA	50		1"C, 3#6, #6N, #10G	L-7(L)-31,33,35	ELECTRICAL CONTRACTOR TO PROVIDE CONNECTION AS SHOWN ON DRAWING. COORDINATE RECEPTACLE NEMA CONFIGURATION/DISCONNECT AS REQUIRED. COORDINATE EXACT LOCATION WITH OWNER.
K-6	RANGE	208V 3P 3W	40 A	14.41 kVA	50		1"C, 3#6, #6N, #10G	L-7(L)-25,27,29	ELECTRICAL CONTRACTOR TO PROVIDE CONNECTION AS SHOWN ON DRAWING. COORDINATE RECEPTACLE NEMA CONFIGURATION/DISCONNECT AS REQUIRED. COORDINATE EXACT LOCATION WITH OWNER.
K-7	MICROWAVE	120V 1P 2W	8.33 A	1 kVA	20		1/2"C, #12, #12N, #12G	L-7(L)-7	ELECTRICAL CONTRACTOR TO PROVIDE CONNECTION AS SHOWN ON DRAWING. COORDINATE RECEPTACLE NEMA CONFIGURATION/DISCONNECT AS REQUIRED. COORDINATE EXACT LOCATION WITH OWNER.
K-8	MICROWAVE	120V 1P 2W	8.33 A	1 kVA	20		1/2"C, #12, #12N, #12G	L-7(L)-21	ELECTRICAL CONTRACTOR TO PROVIDE CONNECTION AS SHOWN ON DRAWING. COORDINATE RECEPTACLE NEMA CONFIGURATION/DISCONNECT AS REQUIRED. COORDINATE EXACT LOCATION WITH OWNER.
K-9	MICROWAVE	120V 1P 2W	8.33 A	1 kVA	20		1/2"C, #12, #12N, #12G	L-7(L)-23	ELECTRICAL CONTRACTOR TO PROVIDE CONNECTION AS SHOWN ON DRAWING. COORDINATE RECEPTACLE NEMA CONFIGURATION/DISCONNECT AS REQUIRED. COORDINATE EXACT LOCATION WITH OWNER.
K-10	MICROWAVE	120V 1P 2W	8.33 A	1 kVA	20		1/2"C, #12, #12N, #12G	L-7(L)-37	ELECTRICAL CONTRACTOR TO PROVIDE CONNECTION AS SHOWN ON DRAWING. COORDINATE RECEPTACLE NEMA CONFIGURATION/DISCONNECT AS REQUIRED. COORDINATE EXACT LOCATION WITH OWNER.
K-11	MICROWAVE	120V 1P 2W	8.33 A	1 kVA	20		1/2"C, #12, #12N, #12G	L-7(L)-39	ELECTRICAL CONTRACTOR TO PROVIDE CONNECTION AS SHOWN ON DRAWING. COORDINATE RECEPTACLE NEMA CONFIGURATION/DISCONNECT AS REQUIRED. COORDINATE EXACT LOCATION WITH OWNER.
K-12	TABLE TOP COOKTOP	208V 3P 3W	40 A	14.41 kVA	50		1"C, 3#6, #6N, #10G	L-7(L)-8,10,12	ELECTRICAL CONTRACTOR TO PROVIDE CONNECTION AS SHOWN ON DRAWING. COORDINATE RECEPTACLE NEMA CONFIGURATION/DISCONNECT AS REQUIRED. COORDINATE EXACT LOCATION WITH OWNER.
K-13	DOUBLE OVEN	208V 3P 3W	50 A	18.01 kVA	70		1-1/4"C, 3#4, #4N, #6G	L-7(L)-14,16,18	ELECTRICAL CONTRACTOR TO PROVIDE CONNECTION AS SHOWN ON DRAWING. COORDINATE RECEPTACLE NEMA CONFIGURATION/DISCONNECT AS REQUIRED. COORDINATE EXACT LOCATION WITH OWNER.
K-14	DISHWASHER	120V 1P 2W	12 A	1.44 kVA	20		1/2"C, #12, #12N, #12G	L-7(L)-41	ELECTRICAL CONTRACTOR TO PROVIDE CONNECTION AS SHOWN ON DRAWING. COORDINATE RECEPTACLE NEMA CONFIGURATION/DISCONNECT AS REQUIRED. COORDINATE EXACT LOCATION WITH OWNER.

ELECTRICAL CONTRACTOR TO VERIFY ALL ELECTRICAL CONNECTIONS AND REQUIREMENTS WITH OWNER.

CALLOUT	DESCRIPTION	VOLTS	AMPS	KVA	HP	BREAKER	FEEDER	CIRCUIT	NOTES
S-1a	TURRET MILLING MACHINE	208V 3P 3W	11 A	3.96 kVA	3 HP	20	1/2"C, 3#12, #12N, #12G	ID(R)-8,10,12	ELECTRICAL CONTRACTOR TO PROVIDE CONNECTION AS SHOWN ON DRAWING. COORDINATE RECEPTACLE NEMA CONFIGURATION/DISCONNECT AS REQUIRED. COORDINATE EXACT LOCATION WITH OWNER.
S-1b	TURRET MILLING MACHINE	208V 3P 3W	11 A	3.96 kVA	3 HP	20	1/2"C, 3#12, #12N, #12G	ID(R)-2,4,6	ELECTRICAL CONTRACTOR TO PROVIDE CONNECTION AS SHOWN ON DRAWING. COORDINATE RECEPTACLE NEMA CONFIGURATION/DISCONNECT AS REQUIRED. COORDINATE EXACT LOCATION WITH OWNER.
S-4a	METAL CHOP SAW	120V 1P 2W	16 A	1.92 kVA	20		1/2"C, #12, #12N, #12G	ID(L)-14	ELECTRICAL CONTRACTOR TO PROVIDE CONNECTION AS SHOWN ON DRAWING. COORDINATE RECEPTACLE NEMA CONFIGURATION/DISCONNECT AS REQUIRED. COORDINATE EXACT LOCATION WITH OWNER.
S-4b	METAL CHOP SAW	120V 1P 2W	16 A	1.92 kVA	20		1/2"C, #12, #12N, #12G	ID(L)-16	ELECTRICAL CONTRACTOR TO PROVIDE CONNECTION AS SHOWN ON DRAWING. COORDINATE RECEPTACLE NEMA CONFIGURATION/DISCONNECT AS REQUIRED. COORDINATE EXACT LOCATION WITH OWNER.
S-5	BENCH LATHE	208V 2P 2W	12 A	2.5 kVA	2 HP	30	1/2"C, 2#10, #10N, #10G	ID(L)-26,28	ELECTRICAL CONTRACTOR TO PROVIDE CONNECTION AS SHOWN ON DRAWING. COORDINATE RECEPTACLE NEMA CONFIGURATION/DISCONNECT AS REQUIRED. COORDINATE EXACT LOCATION WITH OWNER.
S-6	BENCH LATHE	208V 2P 2W	12 A	2.5 kVA	2 HP	30	1/2"C, 2#10, #10N, #10G	ID(L)-26,28	ELECTRICAL CONTRACTOR TO PROVIDE CONNECTION AS SHOWN ON DRAWING. COORDINATE RECEPTACLE NEMA CONFIGURATION/DISCONNECT AS REQUIRED. COORDINATE EXACT LOCATION WITH OWNER.
S-8a	MIG WELDER	120V 1P 2W	16 A	1.92 kVA	20		1/2"C, #12, #12N, #12G	ID(L)-30	ELECTRICAL CONTRACTOR TO PROVIDE CONNECTION AS SHOWN ON DRAWING. COORDINATE RECEPTACLE NEMA CONFIGURATION/DISCONNECT AS REQUIRED. COORDINATE EXACT LOCATION WITH OWNER.
S-8b	MIG WELDER	120V 1P 2W	16 A	1.92 kVA	20		1/2"C, #12, #12N, #12G	ID(L)-32	ELECTRICAL CONTRACTOR TO PROVIDE CONNECTION AS SHOWN ON DRAWING. COORDINATE RECEPTACLE NEMA CONFIGURATION/DISCONNECT AS REQUIRED. COORDINATE EXACT LOCATION WITH OWNER.
S-8c	MIG WELDER	120V 1P 2W	16 A	1.92 kVA	20		1/2"C, #12, #12N, #12G	ID(L)-34	ELECTRICAL CONTRACTOR TO PROVIDE CONNECTION AS SHOWN ON DRAWING. COORDINATE RECEPTACLE NEMA CONFIGURATION/DISCONNECT AS REQUIRED. COORDINATE EXACT LOCATION WITH OWNER.
S-10a	DISC SANDER	208V 2P 2W	50 A	10.4 kVA	70		1"C, 2#4, #4N, #8G	ID(R)-11,13	ELECTRICAL CONTRACTOR TO PROVIDE CONNECTION AS SHOWN ON DRAWING. COORDINATE RECEPTACLE NEMA CONFIGURATION/DISCONNECT AS REQUIRED. COORDINATE EXACT LOCATION WITH OWNER.
S-10b	DISC SANDER	208V 2P 2W	50 A	10.4 kVA	70		1"C, 2#4, #4N, #8G	ID(R)-19,21	ELECTRICAL CONTRACTOR TO PROVIDE CONNECTION AS SHOWN ON DRAWING. COORDINATE RECEPTACLE NEMA CONFIGURATION/DISCONNECT AS REQUIRED. COORDINATE EXACT LOCATION WITH OWNER.
S-10c	DISC SANDER	208V 2P 2W	50 A	10.4 kVA	70		1"C, 2#4, #4N, #8G	ID(R)-27,29	ELECTRICAL CONTRACTOR TO PROVIDE CONNECTION AS SHOWN ON DRAWING. COORDINATE RECEPTACLE NEMA CONFIGURATION/DISCONNECT AS REQUIRED. COORDINATE EXACT LOCATION WITH OWNER.
S-10d	DISC SANDER	208V 2P 2W	50 A	10.4 kVA	70		1"C, 2#4, #4N, #8G	ID(R)-33,35	ELECTRICAL CONTRACTOR TO PROVIDE CONNECTION AS SHOWN ON DRAWING. COORDINATE RECEPTACLE NEMA CONFIGURATION/DISCONNECT AS REQUIRED. COORDINATE EXACT LOCATION WITH OWNER.
S-10e	DISC SANDER	208V 2P 2W	50 A	10.4 kVA	70		1"C, 2#4, #4N, #8G	ID(R)-39,41	ELECTRICAL CONTRACTOR TO PROVIDE CONNECTION AS SHOWN ON DRAWING. COORDINATE RECEPTACLE NEMA CONFIGURATION/DISCONNECT AS REQUIRED. COORDINATE EXACT LOCATION WITH OWNER.
S-11	PLASMA CUTTING MACHINE	208V 3P 3W	10 A	3.6 kVA	20		1/2"C, 3#12, #12N, #12G	ID(R)-1,3,5	ELECTRICAL CONTRACTOR TO PROVIDE CONNECTION AS SHOWN ON DRAWING. COORDINATE RECEPTACLE NEMA CONFIGURATION/DISCONNECT AS REQUIRED. COORDINATE EXACT LOCATION WITH OWNER.
S-12	14" VERTICAL BANDSAW								



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JDR PROJECT NO. 19.0361

Branch Panel: L-7(L)(E)

Location: CORRIDOR 101Q
Supply From: MDP SECTION 4
Mounting: Recessed
Enclosure: Type 1

Volts: 208Y/120V 3P 4W
Phases: 3
Wires: 4

A.I.C. Rating: FIELD VERIFY
Mains Type: MDP SECTION 3
Mains Rating: 225 A
MCB Rating:

Notes:

CKT #	Load Name	CKT BRK	A	B	C	A	B	C	CKT BRK	Load Name	CKT #
1	(E) RANGE	40A2	0	0	0	0	0	0	20A/1	(E) OUTLETS RM	2
3	-	-	0	0	0	0	0	0	20A/1	(E) OUTLETS RM	4
5	(E) RANGE	40A/2	0	0	0	0	0	0	20A/1	(E) OUTLETS RM 68	6
7	-	-	0	0	0	0	0	0	20A/1	(E) LIGHTS RM 68	8
9	(E) OUTLETS WEST RM 70	20A/1	0	0	0	0	0	0	20A/1	(E) LIGHTS RM 66	10
11	(E) OUTLETS WEST	20A/1	0	0	0	0	0	0	20A/1	(E) LIGHTS RM 66	12
13	(E) LIGHTS RM 70	20A/1	0	0	0	0	0	0	20A/1	(E) OUTLETS RM 69	14
15	(E) LIGHTS RM 70	20A/1	0	0	0	0	0	0	20A/1	(E) OUTLETS RM 68	16
17	(E) OUTLETS RM 70	20A/1	0	0	0	0	0	0	20A/1	(E) OUTLETS RM 72 EAST	18
19	(E) OUTLETS JAN CLOSET & RM 70	20A/1	0	0	0	0	0	0	20A/1	(E) LIGHTS RM 68	20
21	(E) OUTLETS RM 70	20A/1	0	0	0	0	0	0	20A/1	(E) LIGHTS RM 68	22
23	(E) OUTLET	20A/1	0	0	0	0	0	0	20A/1	(E) LIGHTS RM 68	24
25	(E) OUTLET RM 70	20A/1	0	0	0	0	0	0	20A/1	(E) LIGHTS RM 69	26
27	(E) OUTLET RM 70	20A/1	0	0	0	0	0	0	20A/1	(E) LIGHTS RM 66	28
29	(E) OUTLET RM 70	20A/1	0	0	0	0	0	0	20A/1	(E) LIGHTS RM 69	30

Total Connected KVA By Phase: 0 0 0

Legend:

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals
				Total Conn. Load: 0 VA
				Total Est. Demand: 0 VA
				Total Conn. A: 0 A
				Total Est. Demand: 0 A

Notes:

Branch Panel: L-7(R)(E)

Location: CORRIDOR 101Q
Supply From: MDP SECTION 3
Mounting: Recessed
Enclosure: Type 1

Volts: 208Y/120V 3P 4W
Phases: 3
Wires: 4

A.I.C. Rating: FIELD VERIFY
Mains Type: MDP SECTION 3
Mains Rating: 225 A
MCB Rating:

Notes:

CKT #	Load Name	CKT BRK	A	B	C	A	B	C	CKT BRK	Load Name	CKT #
1	(E) MOTOR #18 X-FAN BY KILN	20A/1	0	0	0	0	0	0	20A/1	(E) TRANSFORMER LV	2
3	(E) OUTLET JAN CLOSET	20A/1	0	0	0	0	0	0	20A/1	(E) HALL LIGHTS	4
5	(E) OUTLET RM 69	20A/1	0	0	0	0	0	0	20A/1	(E) HALL LIGHTS	6
7	(E) OUTLET RM 68	20A/1	0	0	0	0	0	0	20A/1	(E) MOTOR #15	8
9	(E) OUTLET RM 69	20A/1	0	0	0	0	0	0	20A/1	(E) LIGHTS JANITOR CLOSET	10
11	(E) OUTLET RM 68	20A/1	0	0	0	0	0	0	20A/1	(E) OUTLETS	12
13	(E) RANGE RM 68	30A/2	0	0	0	0	0	0	30A/2	(E) RANGE RM 68	14
15	-	-	0	0	0	0	0	0	-	-	16
17	(E) RANGE CLAY OVEN EAST	40A/2	0	0	0	0	0	0	40A/2	(E) RANGE EAST	18
19	-	-	0	0	0	0	0	0	-	-	20
21	(E) POWER FLOOR BLEACHERS	40A/2	0	0	0	0	0	0	30A/2	(E) NOT LABELED	22
23	-	-	0	0	0	0	0	0	-	-	24
25	(E) NOT LABELED	40A/2	0	0	0	0	0	0	15A/3	(E) NOT LABELED	26
27	-	-	0	0	0	0	0	0	-	-	28
29	(E) NOT LABELED	20A/1	0	0	0	0	0	0	-	-	30

Total Connected KVA By Phase: 0 0 0

Legend:

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals
				Total Conn. Load: 0 VA
				Total Est. Demand: 0 VA
				Total Conn. A: 0 A
				Total Est. Demand: 0 A

Notes:

Branch Panel: L-7(L)

Location: STORAGE 73B
Supply From: MDP SECTION 4
Mounting: SURFACE
Enclosure: Type 1

Volts: 208Y/120V 3P 4W
Phases: 3
Wires: 4

A.I.C. Rating: FIELD VERIFY
Mains Type: MDP SECTION 3
Mains Rating: 225 A
MCB Rating:

Notes:

CKT	Circuit Description	Trip	Poles	A	B	C	Poles	Trip	Circuit Description	CKT	
1	K-1 - RANGE	50 A	3	4.8	4.8			3	50 A	K-4 - RANGE	2
3	--	--	--	4.8	4.8	4.8	4.8	--	--	--	4
5	--	--	--			4.8	4.8	--	--	--	6
7	K-7 - MICROWAVE	20 A	1	1	4.8			3	50 A	K-12 - TABLE TOP COOKTOP	8
9	K-2 - RANGE	50 A	3		4.8	4.8		--	--	--	10
11	--	--	--			4.8	4.8	--	--	--	12
13	--	--	--	4.8	6			3	70 A	K-13 - DOUBLE OVEN	14
15	K-3 - RANGE	50 A	3		4.8	6		--	--	--	16
17	--	--	--			4.8	6	--	--	--	18
19	--	--	--	4.8	0.72			1	20 A	Receptacle KITCHEN 80	20
21	K-8 - MICROWAVE	20 A	1		1	0.72		1	20 A	Receptacle KITCHEN 80	22
23	K-9 - MICROWAVE	20 A	1			1	0.72	1	20 A	Receptacle KITCHEN 80	24
25	K-6 - RANGE	50 A	3	4.8	0.54			1	20 A	Receptacle KITCHEN 80	26
27	--	--	--		4.8	0.36		1	20 A	Receptacle KITCHEN 80	28
29	--	--	--			4.8	0.36	1	20 A	Receptacle KITCHEN 80	30
31	K-5 - RANGE	50 A	3	4.8	0.8			1	20 A	Receptacle STORAGE 80A	32
33	--	--	--		4.8	0.82		1	20 A	EF-3 - EXHAUST FAN	34
35	--	--	--			4.8	0.36	1	20 A	Receptacle KITCHEN 80	36
37	K-10 - MICROWAVE	20 A	1	1	0.36			1	20 A	Receptacle KITCHEN 80	38
39	K-11 - MICROWAVE	20 A	1		1	1.2		1	20 A	WE-80 - WALL ENCLOSURE	40
41	K-14 - DISHWASHER	20 A	1			1.44	0.82	1	20 A	CUH-4 - CABINET UNIT HEATER	42

Total Load: 53.83 kVA 55312 VA 64409 VA
Total Amps: 449 A 463 A 539 A

Legend:

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals
HVAC	1543 VA	100.00%	1543 VA	
Kitchen Equipment - Non-Dwelling Unit	123886 VA	65.00%	80526 VA	Total Conn. Load: 173549 VA
Other	1440 VA	125.00%	1800 VA	Total Est. Demand: 118959 VA
Receptacle	37660 VA	63.27%	23840 VA	Total Conn.: 482 A
Power	9000 VA	125.00%	11250 VA	Total Est. Demand: 330 A

Notes:

Branch Panel: L-7(R)

Location: STORAGE 73B
Supply From: L-7(L)
Mounting: SURFACE
Enclosure: Type 1

Volts: 208Y/120V 3P 4W
Phases: 3
Wires: 4

A.I.C. Rating: FIELD VERIFY
Mains Type: MDP SECTION 3
Mains Rating: 225 A
MCB Rating:

Notes:

CKT	Circuit Description	Trip	Poles	A	B	C	Poles	Trip	Circuit Description	CKT		
1	Receptacle FACS CLASSROOM 70	20 A	1	0.72	0.72			1	20 A	Receptacle STEM/CAD CLASSROOM 72	2	
3	Receptacle FACS CLASSROOM 70	20 A	1		0.72	0.72		1	20 A	Receptacle STEM/CAD CLASSROOM 72	4	
5	Receptacle FACS CLASSROOM 70	20 A	1			0.9	0.72	1	20 A	Receptacle STEM/CAD CLASSROOM 72	6	
7	Receptacle FACS CLASSROOM 70	20 A	1	0.9	0.9			1	20 A	Receptacle STEM/CAD CLASSROOM 72	8	
9	Receptacle FACS CLASSROOM 70	20 A	1		1.08	1.2		1	20 A	WE-72 - WALL ENCLOSURE	10	
11	WE-70 - WALL ENCLOSURE	20 A	1			1.2	1.2	1	20 A	DC-3 - DISPLAY CASE, DC-4 - DISPLAY CASE	12	
13	Receptacle Room 70A	20 A	1	0.72	1.2			1	20 A	DC-5 - DISPLAY CASE, DC-6 - DISPLAY CASE	14	
15	Receptacle STORAGE 70A	20 A	1		1.2	0.96		1	20 A	DC-7 - DISPLAY CASE	16	
17	Receptacle STORAGE 70A	50 A	3			14	0.8	1	20 A	Receptacle CORRIDOR 101Q	18	
19	--	--	--	0	1.44				20 A	Receptacle ROBOTICS 81	20	
21	--	--	--		0	1.26			20 A	Receptacle ROBOTICS 81	22	
23	Receptacle STEM LAB 71	20 A	1			0.72	0.36	1	20 A	CR-81a, CR-81b - CORD REEL	24	
25	Receptacle STEM LAB 71	20 A	1	1.08	1.2			1	20 A	WE-81 - WALL ENCLOSURE	26	
27	Receptacle STEM LAB 71	20 A	1		0.9	1.34		1	20 A	XX-1, XX-2, XX-3, XX-4, XX-5, XX-6, XX-7	28	
29	Receptacle STEM LAB 71	20 A	1				0.18	0	1	20 A	SPARE	30
31	CR-71a, CR-71b, CR-71c, CR-71d, CR-71e	20 A	1	0.9	0			1	20 A	SPARE	32	
33	WE-71 - WALL ENCLOSURE	20 A	1		1.2	0		1	20 A	SPARE	34	
35	SPARE	20 A	1			0	0	1	20 A	SPARE	36	
37	SPARE	20 A	1	0	0			1	20 A	SPARE	38	
39	SPARE	20 A	1		0	0		1	20 A	SPARE	40	
41	SPARE	20 A	1		0	0		1	20 A	SPARE	42	

Total Load: 9.78 kVA 10584 VA 20800 VA
Total Amps: 82 A 89 A 168 A

Legend:

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals
HVAC	1344 VA	100.00%	1344 VA	
Receptacle	31300 VA	65.97%	20650 VA	Total Conn. Load: 40444 VA
Power	7800 VA	125.00%	9750 VA	Total Est. Demand: 31744 VA
				Total Conn.: 482 A
				Total Est. Demand: 88 A

Notes:

Project Title:
**LA CRESCENT-HOKAH PUBLIC SCHOOLS
HIGH SCHOOL/ MIDDLE SCHOOL**

Project Location:
**1301 LANCER BOULEVARD
LA CRESCENT, MINNESOTA**

Sheet Title:
PANEL SCHEDULES - ELECTRICAL

HSR Project Number:
19014-1

Project Date:
3.5.2020

Drawn By:
JDR

Key Plan:

**BID
DOCUMENTS**

No.	Description	Date
A01	ADDENDUM 1	3.16.20

Graphic Scale:

Last Update:
3/13/2020 11:02:33 AM

E804

PANEL LEGEND		PANEL LEGEND		PANEL LEGEND	
Panel Name	SHEET #	Panel Name	SHEET #	Panel Name	SHEET #
1B(E)	E809	1D(R)	E805	L-9(L)(E)	E814
1K(E)	E812	1D(R)(E)	E805	L-9(R)(E)	E814
A	E802	1M(E)	E815	L-10(E)	E814
A(E)	E802	K(L)(E)	E812	L-11(L)(E)	E814
A(L)(E)	E809	K(R)(E)	E812	L-11(R)(E)	E814
A(R)(E)	E809	L-1(L)	E803	L-12(L)(E)	E815
AA	E802	L-1(L)(E)	E803	L-12(R)(E)	E815
AA(E)	E802	L-1(R)	E803	L-13(L)	E808
AAA	E802	L-1(R)(E)	E803	L-13(R)	E808
AAA(E)	E802	L-2(L)(E)	E807	L-14	E808
B(L)(E)	E809	L-2(R)(E)	E807	L-15(L)	E808
B(R)(E)	E809	L-3(L)(E)	E806	L-15(R)	E808
C(L)(E)	E810	L-3(R)(E)	E806	M	E803
C(R)(E)	E810	L-4(E)	E813	M(E)	E803
D(L)(E)	E810	L-6(L)(E)	E813	MDP SECTION 3	E816
D(R)(E)	E810	L-6(R)(E)	E813	MDP SECTION 4	E816
EL(E)	E811	L-7(L)	E804	MDP SECTION 5	E816
ER(E)	E811	L-7(L)(E)	E804	P-1(L)(E)	E815
F(L)(E)	E811	L-7(R)	E804	P-1(R)(E)	E815
F(R)(E)	E811	L-7(R)(E)	E804	P-2(L)(E)	E816
ID(L)	E805	L-8(L)(E)	E813	P-2(R)(E)	E816
ID(L)(E)	E805	L-8(R)(E)	E813	P-3(E)	E816



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JDR PROJECT NO. 19.0361

LA CRESCENT-HOKAH PUBLIC SCHOOLS
HIGH SCHOOL/ MIDDLE SCHOOL

Project Location: 1301 LANCER BOULEVARD
LA CROSSE, MINNESOTA

PANEL SCHEDULES - ELECTRICAL

Project Title:
Sheet Title:

HSR Project Number:
19014-1

Project Date:
3.5.2020

Drawn By:
JDR

Key Plan:

**BID
DOCUMENTS**

Revisions:

No.	Description	Date
A01	ADDENDUM 1	3.16.20

Graphic Scale:

Last Update:
3/13/2020 11:02:38 AM

E805

Branch Panel: ID(L)(E)														
Location: AUTOMANUFACTURING 74 Supply From: Mounting: Recessed Enclosure: Type 1					Volts: 208Y/120V 3P 4W Phases: 3 Wires: 4					A.I.C. Rating: Mains Type: Mains Rating: 400 A MCB Rating:				
Notes:														
CKT #	Load Name	CKT BRK	A	B	C	A	B	C	CKT BRK	Load Name	CKT #			
1											2			
3											4			
5											6			
7											8			
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			
Total Connected KVA By Phase:			0	0	0									
Legend:														
Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals										
				Total Conn. Load: 0 VA										
				Total Est. Demand: 0 VA										
				Total Conn.: 0 A										
				Total Est. Demand: 0 A										
Notes:														

Branch Panel: ID(R)(E)														
Location: AUTOMANUFACTURING 74 Supply From: Mounting: Recessed Enclosure: Type 1					Volts: 208Y/120V 3P 4W Phases: 3 Wires: 4					A.I.C. Rating: Mains Type: Mains Rating: 400 A MCB Rating:				
Notes:														
CKT #	Load Name	CKT BRK	A	B	C	A	B	C	CKT BRK	Load Name	CKT #			
1											2			
3											4			
5											6			
7											8			
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			
Total Connected KVA By Phase:			0	0	0									
Legend:														
Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals										
				Total Conn. Load: 0 VA										
				Total Est. Demand: 0 VA										
				Total Conn.: 0 A										
				Total Est. Demand: 0 A										
Notes:														

Branch Panel: ID(L)														
Location: STORAGE 73B Supply From: MDP SECTION 5 Mounting: SURFACE Enclosure: Type 1					Volts: 208Y/120V 3P 4W Phases: 3 Wires: 4					A.I.C. Rating: FIELD VERIFY Mains Type: Mains Rating: 400 A MCB Rating:				
Notes:														
CKT	Circuit Description	Trip	Poles	A	B	C	Poles	Trip	Circuit Description	CKT				
1	S-32 - BELT/DISC SANDER	30 A	1	2.4	1.66			20 A	S-30 - BENCH LATHE, S-31 - BENCH LATHE	2				
3	S-33 - BELT SANDER	20 A	1		1.92	1.66		--	--	4				
5	S-34 - METAL CHOP SAW	20 A	1			1.92	1.92	1	20 A S-21 - DRILL PRESS	6				
7	S-35 - 12" RADIAL ARM SAW, S-37 - SHAPER	20 A	3	1.51	1.92			1	20 A S-22 - STAND GRINDER	8				
9	--	--	--		1.51	0.71		2	20 A S-23 - STICK ARC WELDER	10				
11	--	--	--			1.51	0.71	--	--	12				
13	S-36 - ROUTER	20 A	1	1.92	2.4			1	30 A S-13 - HORIZONTAL BANDSAW	14				
15	S-38 - 10" TABLE SAW	30 A	2		2.05	1.92		1	20 A S-12 - 14" VERTICAL BANDSAW	16				
17	--	--	--					2.05	1.44	18				
19	S-39 - 10" TABLE SAW	30 A	2	2.05	1.44			1	20 A S-17a - 14" VERTICAL BANDSAW	20				
21	--	--	--		2.05	1.44		1	20 A S-17a - 14" VERTICAL BANDSAW	22				
23	S-40 - PLANNER	40 A	2			2.91	2.76	1	30 A S-20 - MILL DRILL	24				
25	--	--	--	2.91	2.5			2	30 A S-5 - BENCH LATHE, S-6 - BENCH LATHE	26				
27	S-43 - SPINDLE SHAPER, S-44 - 14" BANDSAW	20 A	1		0.84	2.5		--	--	28				
29	S-45 - BANDSAW	20 A	3			1.32	1.92	1	20 A S-8a - MIG WELDER	30				
31	--	--	--	1.32	1.92			1	20 A S-8b - MIG WELDER	32				
33	--	--	--		1.32	1.92		1	20 A S-8c - MIG WELDER	34				
35	S-19 - CNC	20 A	1			0.84	3.83	2	50 A S-50 - MOBILE PLASMA CUTTER	36				
37	S-46 - DRILL PRESS	20 A	1	1.92	3.83			--	--	38				
39	S-47 - BENCH LATHE	20 A	2		0.83	0		1	20 A SPARE	40				
41	--	--	--					1	20 A SPARE	42				
Total Load:				64.89 KVA	62695 VA	64446 VA	0							
Total Amps:				543 A	522 A	539 A								
Legend:														
Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals										
HVAC	100 VA	100.00%	100 VA	Total Conn. Load: 192027 VA										
Receptacle	5040 VA	100.00%	5040 VA	Total Est. Demand: 79895 VA										
Diverse 40%	186887 VA	40.00%	74755 VA	Total Conn.: 533 A										
				Total Est. Demand: 222 A										
Notes:														

Branch Panel: ID(R)														
Location: STORAGE 73B Supply From: ID(L) Mounting: SURFACE Enclosure: Type 1					Volts: 208Y/120V 3P 4W Phases: 3 Wires: 4					A.I.C. Rating: Mains Type: Mains Rating: 400 A MCB Rating:				
Notes:														
CKT	Circuit Description	Trip	Poles	A	B	C	Poles	Trip	Circuit Description	CKT				
1	S-11 - PLASMA CUTTING MACHINE	20 A	3	1.2	1.32			3	20 A S-1b - TURRET MILLING MACHINE	2				
3	--	--	--		1.2	1.32		--	--	4				
5	--	--	--			1.2	1.32	--	--	6				
7	S-48a - MOBILE MIG WELDER	60 A	2	4.68	1.32			3	20 A S-1a - TURRET MILLING MACHINE	8				
9	--	--	--		4.68	1.32		--	--	10				
11	S-10a - STICK ARC WELDER	70 A	2			5.2	1.32	--	--	12				
13	--	--	--	5.2	1.92			1	20 A S-4a - METAL CHOP SAW	14				
15	S-48b - MOBILE MIG WELDER	60 A	2		4.68	1.92		1	20 A S-4b - METAL CHOP SAW	16				
17	--	--	--			4.68	1.56	2	20 A S-27 - VERTICAL AIR COMPRESSOR	18				
19	S-10b - STICK ARC WELDER	70 A	2	5.2	1.56			3	30 A S-28 - HORIZONTAL AIR COMPRESSOR	20				
21	--	--	--		5.2	2.1		3	30 A S-28 - HORIZONTAL AIR COMPRESSOR	22				
23	S-48c - MOBILE MIG WELDER	60 A	2			4.68	2.1	--	--	24				
25	--	--	--	4.68	2.1			--	--	26				
27	S-10c - STICK ARC WELDER	70 A	2		5.2	1.92		1	20 A S-51 - LASER ENGRAVER	28				
29	--	--	--			5.2	1.92	1	20 A S-53 - 3D CARVER W/COMP	30				
31	S-49a - MIG WELDER	20 A	1	1.92	1.08			1	20 A Receptacle WOODS 73	32				
33	S-10e - STICK ARC WELDER	70 A	2		5.2	1.08		1	20 A Receptacle Room 73C, 73A	34				
35	--	--	--			5.2	0.9	1	20 A Receptacle Room 73B, 73A	36				
37	S-49b - MIG WELDER	20 A	1	1.92	1.08			1	20 A Receptacle AUTO MANUFACTURING 74	38				
39	S-10e - STICK ARC WELDER	70 A	2		5.2	1		1	20 A EF-4 - EXHAUST FAN	40				
41	--	--	--			5.2	0	1	20 A SPARE	42				
Total Load:				35.18 KVA	42024 VA	40484 VA	0							
Total Amps:				293 A	357 A	344 A								
Legend:														
Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals										
HVAC	100 VA	100.00%	100 VA	Total Conn. Load: 117693 VA										
Receptacle	5040 VA	100.00%	5040 VA	Total Est. Demand: 50161 VA										
Diverse 40%	112553 VA	40.00%	45021 VA	Total Conn.: 327 A										
				Total Est. Demand: 139 A										
Notes:														

PANEL LEGEND	
Panel Name	SHEET #
1B(E)	E809
1K(E)	E812
A	E802
A(E)	E802
AL(E)	E809
A(R)(E)	E809
AA	E802
AA(E)	E802
AAA	E802
AAA(E)	E802
BL(E)	E809
BR(E)	E809
CL(E)	E810
C(R)(E)	E810
DL(E)	E810
DR(E)	E810
EL(E)	E811
ER(E)	E811
FL(E)	E811
FR(E)	E811
IDL	E805
IDL(E)	E805

PANEL LEGEND	
Panel Name	SHEET #
ID(R)	E805
ID(R)(E)	E805
IME	E815
K(L)(E)	E812
K(R)(E)	E812
L-1(L)	E803
L-1(L)(E)	E803
L-1(R)	E803
L-1(R)(E)	E803
L-2(L)(E)	E807
L-2(R)(E)	E807
L-3(L)(E)	E806
L-3(R)(E)	E806
L-4(E)	E813
L-6(L)(E)	E813
L-6(R)(E)	E813
L-7(L)	E804
L-7(L)(E)	E804
L-7(R)	E804
L-7(R)(E)	E804
L-8(L)(E)	E813
L-8(R)(E)	E813

PANEL LEGEND	
Panel Name	SHEET #
L-9(L)(E)	E814
L-9(R)(E)	E814
L-10(E)	E814
L-11(L)(E)	E814
L-11(R)(E)	E814
L-12(L)(E)	E815
L-12(R)(E)	E815
L-13(L)	E808
L-13(R)	E808
L-14	E808
L-15(L)	E808
L-15(R)	E808
M	E803
ME	E803
MDP SECTION 3	E816
MDP SECTION 4	E816
MDP SECTION 5	E816
P-1(L)(E)	E815
P-1(R)(E)	E815
P-2(L)(E)	E816
P-2(R)(E)	E816
P-3(E)	E816



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JDR PROJECT NO. 19.0361

Branch Panel: L-3(L)(E)

Location: JAN CLO JCS
Supply From: MDP SECTION 4
Mounting: Recessed
Enclosure: Type 1

Volts: 208Y/120V 3P 4W
Phases: 3
Wires: 4

A.I.C. Rating:
Mains Type:
Mains Rating: 225 A
MCB Rating:

Notes:

CKT #	Load Name	CKT BRK	A	B	C	A	B	C	CKT BRK	Load Name	CKT #
1	(E) LIGHTS RM 15	20A/1	0			0			20A/1	(E) MOTOR #56	2
3	(E) LIGHTS RM 15	20A/1		0			0		20A/1	(E) LIGHTS FACULTY BATH	4
5	(E) LIGHTS RM 15	20A/1		0	0			0	20A/1	(E) LIGHTS OUTLETS OFFICE NURL RM	6
7	(E) LIGHTS OFFICE AREA	20A/1							20A/1	(E) LIGHTS OFFICE AREA	8
9	(E) LIGHTS OFFICE AREA	20A/1	0			0			20A/1	(E) OUTLET JANITOR CLOSET	10
11	(E) LIGHTS OFFICE AREA	20A/1		0	0			0	20A/1	(E) NOT LABELED	12
13	(E) LIGHTS RM 11	20A/1	0			0			20A/1	(E) OUTLETS RM 12	14
15	(E) LIGHTS RM 11	20A/1		0			0		20A/1	(E) OUTLETS RM 13-14	16
17	(E) LIGHTS SUPT OFFICE	20A/1			0			0	20A/1	(E) OUTLETS RM 15	18
19	(E) LIGHTS STORAGE RM	20A/1	0			0			20A/1	(E) OUTLETS TEACHERS LOUNGE	20
21	(E) LIGHTS RM 28	20A/1		0			0		20A/1	(E) OUTLETS	22
23	(E) MOTOR #63	20A/1			0			0	20A/1	(E) OUTLETS	24
25	(E) LIGHTS JANITOR CLOSET	20A/1	0			0			20A/1	(E) OUTLETS	26
27	(E) OUTLETS OFFICE AREA	20A/1		0			0		20A/1	(E) POP MACHINE	28
29	(E) OUTLETS OFFICE AREA	20A/1			0			0	20A/1	(E) POP MACHINE	30
31	(E) OUTLETS OFFICE AREA	20A/1	0			0			20A/1	(E) NOT LABELED	32
33	(E) OUTLETS HALL	20A/1			0			0	20A/1	(E) NOT LABELED	34
35	(E) OUTLETS HALL	20A/1			0			0	20A/1	(E) NOT LABELED	36
37	(E) NOT LABELED	30A/2	0			0			20A/1	(E) NOT LABELED	38
39	-	-			0				20A/1	(E) SPARE	40
41	(E) LIGHTS HALL	20A/1			0			0	20A/1	(E) SPARE	42
Total Connected KVA By Phase:			0	0	0						

Legend:

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals
				Total Conn. Load: 0 VA
				Total Est. Demand: 0 VA
				Total Conn.: 0 A
				Total Est. Demand: 0 A

Notes:

Branch Panel: L-3(R)(E)

Location: JAN CLO JCS
Supply From: L-3(L)(E)
Mounting: Recessed
Enclosure: Type 1

Volts: 208Y/120V 3P 4W
Phases: 3
Wires: 4

A.I.C. Rating:
Mains Type:
Mains Rating: 225 A
MCB Rating:

Notes:

CKT #	Load Name	CKT BRK	A	B	C	A	B	C	CKT BRK	Load Name	CKT #
1	(E) OUTLETS OFFICE AREA	20A/1	0			0			20A/1	(E) FLOOR OUTLETS RM 26	2
3	(E) OUTLETS OFFICE AREA	20A/1		0			0		20A/1	(E) FLOOR OUTLETS RM 26	4
5	(E) OUTLETS OFFICE AREA	20A/1			0			0	20A/1	(E) FLOOR OUTLETS RM 26	6
7	(E) LIGHTS RM 12	20A/1							20A/1	(E) FLOOR OUTLETS RM 26	8
9	(E) LIGHTS RM 12	20A/1	0			0			20A/1	(E) LIGHTS RM 13	10
11	(E) LIGHTS RM 12	20A/1		0			0		20A/1	(E) LIGHTS RM 13	12
13	(E) LIGHTS RM 27	20A/1	0			0			20A/1	(E) LIGHTS RM 13	14
15	(E) LIGHTS BOYS RESTROOM	20A/1			0			0	20A/1	(E) LIGHTS RM 14	16
17	(E) LIGHTS RM 27	20A/1			0			0	20A/1	(E) LIGHTS RM 14	18
19	(E) LIGHTS OFFICE AREA	20A/1	0			0			20A/1	(E) LIGHTS RM 14	20
21	(E) LIGHTS STORAGE RM	20A/1		0			0		20A/1	(E) FAN SUPT OFFICE	22
23	(E) LIGHTS RM 29	20A/1			0			0	20A/1	(E) RM 26 COMPUTER OUTLETS	24
25	(E) OUTLETS	20A/1	0			0			20A/1	(E) RM 26 COMPUTER OUTLETS	26
27	(E) UNIT HEATER RMS 12 & 13	20A/1		0			0		20A/1	(E) RM 27 COMPUTER OUTLETS	28
29	(E) UNIT HEATER RMS 14 & 15	20A/1			0			0	20A/1	(E) RM 27 COMPUTER OUTLETS	30
31	(E) NOT LABELED	20A/1	0			0			20A/1	(E) NOT LABELED	32
33	(E) NOT LABELED	20A/1			0			0	20A/1	(E) NOT LABELED	34
35	(E) NOT LABELED	20A/1			0			0	20A/1	(E) NOT LABELED	36
37	(E) OFFICE COMPUTER	20A/1	0			0			20A/1	(E) NOT LABELED	38
39	(E) HOT WATER RM 12	20A/2			0			0	20A/1	(E) NOT LABELED	40
41	-	-			0			0	20A/1	(E) TEACHER LOUNGE	42
Total Connected KVA By Phase:			0	0	0						

Legend:

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals
				Total Conn. Load: 0 VA
				Total Est. Demand: 0 VA
				Total Conn.: 0 A
				Total Est. Demand: 0 A

Notes:

Branch Panel: L-3(L)(E)

Location: JAN CLO JCS
Supply From: MDP SECTION 4
Mounting: Recessed
Enclosure: Type 1

Volts: 208Y/120V 3P 4W
Phases: 3
Wires: 4

A.I.C. Rating: FIELD VERIFY
Mains Type:
Mains Rating: 225 A
MCB Rating:

Notes:

CKT	Circuit Description	Trip	Poles	A	B	C	Poles	Trip	Circuit Description	CKT	
1	(E) LIGHTS RM 15	20 A	1	0	0			1	20 A (E) MOTOR #56	2	
3	(E) LIGHTS RM 15	20 A	1		0	0		1	20 A SPARE	4	
5	(E) LIGHTS RM 15	20 A	1			0	0.9	1	20 A Receptacle ART 50	6	
7	Receptacle CONFERENCE 49	20 A	1	1.08	1.44			1	20 A Receptacle ART 50	8	
9	Receptacle CONFERENCE 49	20 A	1		0.54	0		1	20 A (E) OUTLET JANITOR CLOSET	10	
11	AK-1 - KILN	40 A	3			3.81	1.2	1	20 A WE-50 - WALL ENCLOSURE	12	
13	--	--	--	3.81	1.2			1	20 A PB-2 - PAINT BOOTH	14	
15	--	--	--		3.81	0		1	20 A (E) OUTLETS RM 13-14	16	
17	Receptacle Room 50A, 50B	20 A	1			0.54	0	1	20 A (E) OUTLETS RM 15	18	
19	(E) LIGHTS STORAGE RM	20 A	1	0	0			1	20 A SPARE	20	
21	(E) LIGHTS RM 28	20 A	1		0	0		1	20 A (E) OUTLETS	22	
23	(E) MOTOR #63	20 A	1			0	0	1	20 A (E) OUTLETS	24	
25	(E) LIGHTS JANITOR CLOSET	20 A	1	0	0			1	20 A (E) OUTLETS	26	
27	CR-50a, CR-50b, CR-50c - CORD REEL	20 A	1		0.54	0		1	20 A SPARE	28	
29	CR-50d, CR-50e, CR-50f, CR-50g - CORD REEL	20 A	1				0.72	0	1	20 A SPARE	30
31	CR-50h, CR-50i, CR-50j, CR-50k - CORD REEL	20 A	1	0.72	0			1	20 A (E) NOT LABELED	32	
33	(E) OUTLETS HALL	20 A	1			0		1	20 A (E) NOT LABELED	34	
35	(E) OUTLETS HALL	20 A	1			0		1	20 A (E) NOT LABELED	36	
37	(E) NOT LABELED	20 A	1	0	0			1	20 A (E) NOT LABELED	38	
39	-	20 A	1			0		1	20 A (E) SPARE	40	
41	(E) LIGHTS HALL	20 A	1			0	0	1	20 A (E) SPARE	42	
Total Load:				11.5 kVA	6220 VA	8500 VA					
Total Amps:			99 A	52 A	74 A						

Legend:

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals
HVAC	3999 VA	100.00%	3999 VA	
Motor	1920 VA	125.00%	2400 VA	Total Conn. Load: 26219 VA
Receptacle	6480 VA	100.00%	6480 VA	Total Est. Demand: 29135 VA
Power	12620 VA	125.00%	15776 VA	Total Conn.: 73 A
Diverse 40%	1200 VA	40.00%	480 VA	Total Est. Demand: 81 A

Notes:

Branch Panel: L-3(R)(E)

Location: JAN CLO JCS
Supply From: L-3(L)(E)
Mounting: Recessed
Enclosure: Type 1

Volts: 208Y/120V 3P 4W
Phases: 3
Wires: 4

A.I.C. Rating: FIELD VERIFY
Mains Type:
Mains Rating: 225 A
MCB Rating:

Notes:

CKT	Circuit Description	Trip	Poles	A	B	C	Poles	Trip	Circuit Description	CKT	
1	AHU-1 - AIR HANDLING UNIT	20 A	3	1.33	0			1	20 A (E) FLOOR OUTLETS RM 26	2	
3	--	--	--		1.33	0		1	20 A (E) FLOOR OUTLETS RM 26	4	
5	--	--	--			1.33	0	1	20 A (E) FLOOR OUTLETS RM 26	6	
7	CHD-5 - OVERHEAD DOOR	20 A	1	1.92	0			1	20 A (E) FLOOR OUTLETS RM 26	8	
9	SPARE	20 A	1		0	0		1	20 A (E) LIGHTS RM 13	10	
11	SPARE	20 A	1			0	0	1	20 A (E) LIGHTS RM 13	12	
13	(E) LIGHTS RM 27	20 A	1	0	0			1	20 A (E) LIGHTS RM 13	14	
15	(E) LIGHTS BOYS RESTROOM	20 A	1			0	0	1	20 A (E) LIGHTS RM 14	16	
17	(E) LIGHTS RM 27	20 A	1			0	0	1	20 A (E) LIGHTS RM 14	18	
19	SPARE	20 A	1	0	0			1	20 A (E) LIGHTS RM 14	20	
21	(E) LIGHTS STORAGE RM	20 A	1			0	0	1	20 A SPARE	22	
23	(E) LIGHTS RM 29	20 A	1			0	0	1	20 A (E) RM 26 COMPUTER OUTLETS	24	
25	(E) OUTLETS	20 A	1	0	0			1	20 A (E) RM 26 COMPUTER OUTLETS	26	
27	(E) UNIT HEATER RMS 12 & 13	20 A	1			0	0	1	20 A (E) RM 27 COMPUTER OUTLETS	28	
29	(E) UNIT HEATER RMS 14 & 15	20 A	1			0	0	1	20 A (E) RM 27 COMPUTER OUTLETS	30	
31	(E) NOT LABELED	20 A	1	0	0			1	20 A (E) NOT LABELED	32	
33	(E) NOT LABELED	20 A	1			0	0	1	20 A (E) NOT LABELED	34	
35	(E) NOT LABELED	20 A	1			0	0	1	20 A (E) NOT LABELED	36	
37	SPARE	20 A	1	0	0			1	20 A (E) NOT LABELED	38	
39	SPARE	20 A	1			0	0	1	20 A (E) NOT LABELED	40	
41	SPARE	20 A	1			0	0	1	20 A SPARE	42	
Total Load:				3.25 kVA	1333 VA	1333 VA					
Total Amps:			27 A	11 A	11 A						

Legend:

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals
HVAC	3999 VA	100.00%	3999 VA	
Motor	1920 VA	125.00%	2400 VA	Total Conn. Load: 5919 VA
				Total Est. Demand: 6399 VA
				Total Conn.: 16 A
				Total Est. Demand: 18 A

Notes:

PANEL LEGEND

Panel Name	SHEET #
1B(E)	E809
1K(E)	E812
A	E802
A(E)	E802
A(L)(E)	E809
A(R)(E)	E809
AA	E802
AA(E)	E802
AAA	E802
AAA(E)	E802
BL(X)(E)	E809
BR(X)(E)	E809
CL(X)(E)	E810
C(R)(E)	E810
DL(X)(E)	E810
DR(X)(E)	E810
EL(X)(E)	E811
ER(X)(E)	E811
FL(X)(E)	E811
FR(X)(E)	E811
ID(L)	E805
ID(L)(E)	E805

PANEL LEGEND

Panel Name	SHEET #
ID(R)	E805
ID(R)(E)	E805
IME	E815
K(L)(E)	E812
K(R)(E)	E812
L-1(L)	E803
L-1(L)(E)	E803
L-1(R)	E803
L-2(L)(E)	E8



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JDR PROJECT NO. 190361

LA CRESCENT-HOKAH PUBLIC SCHOOLS
HIGH SCHOOL/ MIDDLE SCHOOL
Project Location: 1301 LANCER BOULEVARD
LA CRESCENT, MINNESOTA
Panel Schedules - ELECTRICAL
Sheet Title:

HSR Project Number: 19014-1

Project Date: 3.5.2020

Drawn By: JDR

Key Plan:

BID
DOCUMENTS

No.	Description	Date
A01	ADDENDUM 1	3.16.20

Graphic Scale:

Last Update:
3/13/2020 11:02:54 AM

E808

Branch Panel: L-13(L)

Location: WORK 11F
Supply From: MDP SECTION 5
Mounting: Recessed
Enclosure: Type 1

Volts: 208Y/120V 3P 4W
Phases: 3
Wires: 4

A.I.C. Rating: FIELD VERIFY
Mains Type: Mains Rating: 225 A
MCB Rating:

Notes:

CKT	Circuit Description	Trip	Poles	A	B	C	Poles	Trip	Circuit Description	CKT
1	Receptacle SMALL CONF. 11E	20 A	1	0.9	1.72		1	20 A	Lighting SMALL CONF. 11E	2
3	Receptacle SOCIAL WORKER 11D	20 A	1		0.9	1.13	1	20 A	Lighting VESTIBULE 101MM	4
5	Receptacle OFFICE 11C	20 A	1			0.9	1.18	1	Lighting - Dwelling Unit MECHANICAL 56A	6
7	Receptacle PRINCIPAL 11B	20 A	1	0.9	1.44			1	Receptacle CAFETERIA 56	8
9	Receptacle POLICE LIAISON 11A	20 A	1		0.9	1.26		1	Receptacle Room 56, 56A	10
11	Receptacle Room 11F, 11G	20 A	1			0.9	1.26	1	Receptacle Room 56, 56B	12
13	Receptacle WORK 11F	20 A	1	1.2	0.8			1	Receptacle CAFETERIA 56	14
15	Receptacle Room 11H, 11M, 11L, 11J	20 A	1		1	1.92		1	OHD-1 - OVERHEAD DOOR	16
17	Receptacle NURSE 11K	20 A	1			1.08	1.92	1	OHD-2 - OVERHEAD DOOR	18
19	Receptacle NURSE 11K	20 A	1	0.9	1.92			1	OHD-3 - OVERHEAD DOOR	20
21	Receptacle NURSE 11K	20 A	1		0.4	1.92		1	OHD-4 - OVERHEAD DOOR	22
23	Receptacle RECEPTION 11	20 A	1			1.26	0	1	SPARE	24
25	Receptacle RECEPTION 11	20 A	1	0.36	0			1	SPARE	26
27	Receptacle RECEPTION 11	20 A	1		0.36	0		1	SPARE	28
29	Receptacle RECEPTION 11	20 A	1			0.36	0	1	SPARE	30
31	SPARE	20 A	1	0	0			1	SPARE	32
33	SPARE	20 A	1		0	0		1	SPARE	34
35	SPARE	20 A	1			0	0	1	SPARE	36
37	SPARE	20 A	1	0	0			1	SPARE	38
39	SPARE	20 A	1			0	0	1	SPARE	40
41	SPARE	20 A	1				0	1	SPARE	42
Total Load:				23.86 kVA		23922 VA			22375 VA	
Total Amps:				201 A		201 A			186 A	

Legend:

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals
HVAC	1663 VA	100.00%	1663 VA	
Motor	35396 VA	110.69%	39179 VA	Total Conn. Load: 70152 VA
Other	8 VA	125.00%	10 VA	Total Est. Demand: 67097 VA
Receptacle	26820 VA	68.64%	18410 VA	Total Conn.: 195 A
Power	2400 VA	125.00%	3000 VA	Total Est. Demand: 186 A
Lighting	4019 VA	125.00%	5024 VA	

Notes:

Branch Panel: L-13(R)

Location: WORK 11F
Supply From: L-13(L)
Mounting: Recessed
Enclosure: Type 1

Volts: 208Y/120V 3P 4W
Phases: 3
Wires: 4

A.I.C. Rating: FIELD VERIFY
Mains Type: Mains Rating: 225 A
MCB Rating:

Notes:

CKT	Circuit Description	Trip	Poles	A	B	C	Poles	Trip	Circuit Description	CKT
1	Receptacle COMMONS 101M	20 A	1	1.08	3.96			3	50 A RTU-1 - ROOF TOP UNIT	2
3	Receptacle Room 101M, 57	20 A	1		1.44	3.96				4
5	Receptacle COMMONS 101M	20 A	1			1.08	3.96			6
7	Receptacle COMMONS 101M	20 A	1	1.08	5.04			3	60 A RTU-2 - ROOF TOP UNIT	8
9	Receptacle COMMONS 101M	20 A	1		0.72	5.04				10
11	Receptacle COMMONS 101M	20 A	1			0.9	5.04			12
13	Receptacle	20 A	1	0.18	0.07			1	20 A VAV CONTROL AREA A	14
15	Receptacle	20 A	1		0.18	1.49		1	20 A CUH-1, CUH-2, CUH-3 - CAB UNIT HTR	16
17	Receptacle	20 A	1			0.18	0.6	1	20 A DPC-1 - DISPLAY CASE	18
19	Receptacle	20 A	1	0.18	0.6			1	20 A DPC-2 - DISPLAY CASE	20
21	Receptacle	20 A	1			0.18	0.6	1	20 A DO-1 - DOOR OPERATOR	22
23	Receptacle COMMONS 101M	20 A	1			1.2	0.6	1	20 A DO-2 - DOOR OPERATOR	24
25	Receptacle COMMONS 101M	20 A	1	0.9	0.7			1	20 A P-3 - PUMP	26
27	Receptacle COMMONS 101M	20 A	1		0.54	0		1	20 A SPARE	28
29	SPARE	20 A	1			0	0	1	20 A SPARE	30
31	SPARE	20 A	1	0	0			1	20 A SPARE	32
33	SPARE	20 A	1		0	0		1	20 A SPARE	34
35	SPARE	20 A	1			0	0	1	20 A SPARE	36
37	SPARE	20 A	1	0	0			1	20 A SPARE	38
39	SPARE	20 A	1			0	0	1	20 A SPARE	40
41	SPARE	20 A	1				0	1	20 A SPARE	42
Total Load:				13.79 kVA		14158 VA			13567 VA	
Total Amps:				115 A		118 A			113 A	

Legend:

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals
HVAC	1554 VA	100.00%	1554 VA	
Motor	27716 VA	113.65%	31499 VA	Total Conn. Load: 41520 VA
Receptacle	9840 VA	100.00%	9840 VA	Total Est. Demand: 45902 VA
Power	2400 VA	125.00%	3000 VA	Total Conn.: 115 A
				Total Est. Demand: 127 A

Notes:

Branch Panel: L-14

Location: TEACHER PREP...
Supply From: MDP SECTION 5
Mounting: Recessed
Enclosure: Type 1

Volts: 208Y/120V 3P 4W
Phases: 3
Wires: 4

A.I.C. Rating: FIELD VERIFY
Mains Type: Mains Rating: 225 A
MCB Rating:

Notes:

CKT	Circuit Description	Trip	Poles	A	B	C	Poles	Trip	Circuit Description	CKT
1	Receptacle SCIENCE 35	20 A	1	1.44	0.6			3	20 A RX-1, RX-6 - ROOF EXHAUSTER	2
3	Receptacle SCIENCE 35	20 A	1		1.44	0.6				4
5	CR-35a, CR-35b, CR-35c, CR-35d, CR-35e,...	20 A	1			1.08	0.6			6
7	SI-35a - SCIENCE ISLAND	20 A	1	0.72	0.6			3	20 A RX-3, RX-5 - ROOF EXHAUSTER	8
9	SI-35b - SCIENCE ISLAND	20 A	1		0.72	0.6				10
11	SI-35c - SCIENCE ISLAND	20 A	1			0.72	0.6			12
13	WE-35 - WALL ENCLOSURE	20 A	1	1.2	0.6			3	20 A RX-2, RX-4 - ROOF EXHAUSTER	14
15	Receptacle SCIENCE (ALT) 34	20 A	1		1.44	0.6				16
17	Receptacle SCIENCE (ALT) 34	20 A	1			1.26	0.6			18
19	CR-34a, CR-34b, CR-34c, CR-34d - CORD REEL	20 A	1	0.72	1.2			1	20 A FH-1 - FUME HOOD	20
21	CR-34e, CR-34f, CR-34g, CR-34h - CORD REEL	20 A	1		0.72	1.2		1	20 A FH-2 - FUME HOOD	22
23	SI-34a - SCIENCE ISLAND	20 A	1			1.2	0.05	1	20 A VAV CONTROL AREA B	24
25	SI-34b - SCIENCE ISLAND	20 A	1	1.2	0			1	20 A SPARE	26
27	WE-34 - WALL ENCLOSURE	20 A	1		1.2	0		1	20 A SPARE	28
29	SPARE	20 A	1			0	0	1	20 A SPARE	30
31	SPARE	20 A	1	0	0			1	20 A SPARE	32
33	SPARE	20 A	1			0	0	1	20 A SPARE	34
35	SPARE	20 A	1			0	0	1	20 A SPARE	36
37	SPARE	20 A	1	0	0			1	20 A SPARE	38
39	SPARE	20 A	1			0	0	1	20 A SPARE	40
41	SPARE	20 A	1				0	1	20 A SPARE	42
Total Load:				8.28 kVA		8521 VA			6109 VA	
Total Amps:				72 A		74 A			51 A	

Legend:

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals
HVAC	48 VA	100.00%	48 VA	
Motor	5404 VA	104.17%	5629 VA	Total Conn. Load: 22912 VA
Receptacle	12660 VA	89.49%	11330 VA	Total Est. Demand: 23007 VA
Power	4800 VA	125.00%	6000 VA	Total Conn.: 64 A
				Total Est. Demand: 64 A

Notes:

Branch Panel: L-15(L)

Location: MDP SECTION 4
Supply From: MDP SECTION 4
Mounting: SURFACE
Enclosure: Type 1

Volts: 208Y/120V 3P 4W
Phases: 3
Wires: 4

A.I.C. Rating: FIELD VERIFY
Mains Type: Mains Rating: 225 A
MCB Rating:

Notes:

CKT	Circuit Description	Trip	Poles	A	B	C	Poles	Trip	Circuit Description	CKT
1	Receptacle WOODS 82	20 A	1	0.72	1.15			1	20 A Lighting VESTIBULE V2	2
3	Receptacle WOODS 82	20 A	1		0.9	1.51		1	20 A Lighting ROBOTICS 81	4
5	CR-82a, CR-82b, CR-82c, CR-82d - CORD REEL	20 A	1			0.72	1.34	1	20 A Lighting WOODS 73	6
7	Receptacle FINISH 83	20 A	1	1.44	1.97			1	20 A Lighting AUTOMANUFACTURING 74	8
9	Receptacle AUTOMANUFACTURING 84	20 A	1		0.54	1.03		1	20 A Lighting FINISH 83	10
11	Receptacle AUTOMANUFACTURING 84	20 A	1			0.72	0.5	1	20 A Lighting CORRIDOR 101D	12
13	OHD-6 - OVERHEAD DOOR	20 A	1	1.92	0.9			1	20 A Receptacle BOILER 130D	14
15	OHD-7 - OVERHEAD DOOR	20 A	1		1.92	0.36		1	20 A Receptacle SPRINKLER 130G	16
17	OHD-8 - OVERHEAD DOOR	20 A	1			1.92	0.18	1	20 A Receptacle CORRIDOR 101Q	18
19	OHD-9 - OVERHEAD DOOR	20 A	1	1.92	0.18			1	20 A Receptacle INSTR. STORAGE 203	20
21	OHD-10 - OVERHEAD DOOR	20 A	1		1.92	0.07		1	20 A VAV CONTROL AREA D	22
23	RX-7, RX-8, RX-9 - ROOF EXHAUSTER	20 A	3			0.9	0.44	3	20 A DC-1b - DUST COLLECTOR - CYCLONE	24
25	--	--	--	0.9	0.44			--	--	26
27	--	--	--		0.9	0.44		--	--	28
29	SFU-1 - SYSTEM FEEDER UNIT	20 A	1			0.18	1.66	1	20 A PB-1 - PAINT BOOTH	30
31	TOP-1 - TEMP CONTROL PANEL	20 A	1	1.2	0			1	20 A SPARE	32
33	SPARE	20 A	1		0	0		1	20 A SPARE	34
35	SPARE	20 A	1			0	0	1	20 A SPARE	36
37	SPARE	20 A	1	0	0			1	20 A SPARE	38
39	SPARE	20 A	1			0	0	1	20 A SPARE	40
41	SPARE	20 A	1				0	1	20 A SPARE	42
Total Load:				27.33 kVA		24048 VA			22556 VA	
Total Amps:				230 A		202 A			188 A	

Legend:

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals
HVAC	35135 VA	100.00%	35135 VA	
Motor	19940 VA	107.90%	21516 VA	Total Conn. Load: 73931 VA
Other	0 VA	0.00%	0 VA	Total Est. Demand: 77157 VA
Receptacle	6660 VA	100.00%	6660 VA	Total Conn.: 205 A
Power	3372 VA	125.00%	4215 VA	Total Est. Demand: 214 A
Lighting	7485 VA	125.00%	9357 VA	
Diverse 40%	1656 VA	40.00%	662 VA	

Notes:

Branch Panel: L-15(R)

Location: L-15(L)
Supply From: L-15(L)
Mounting: SURFACE
Enclosure: Type 1

Volts: 208Y/120V 3P 4W
Phases: 3
Wires: 4

A.I.C. Rating: FIELD VERIFY
Mains Type: Mains Rating: 225 A
MCB Rating:

Notes:

CKT	Circuit Description	Trip	Poles	A	B	C	Poles	Trip	Circuit Description	CKT
1	B-1 - BOILER	60 A	3	3.48	1.57			1	20 A CP-1 - CIRCULATION PUMP	2
3	--	--	--		3.48	0.6		1	20 A WHR-1 - WATER HEATER	4
5	--	--	--			3.48	0.6	1	20 A WHR-2 - WATER HEATER	6
7	B-2 - BOILER	60 A	3	3.48	0.6			1	20 A WHR-3 - WATER HEATER	8
9	--	--	--		3.48	2.1		3	30 A UB-1 - UTILITY BLOWER	10
11	--	--	--			3.48	2.1	--	--	12
13	B-3 - BOILER	60 A	3	3.48	2.1			--	--	14
15	--	--	--		3.48	1.4		1	20 A UH-1, UH-2, UH-5	16
17	--	--	--			3.48	0.94	1		

Branch Panel: P-2(L)(E)											
Location: MULTIPURPOSE 62 Supply From: MDP SECTION 4 Mounting: Recessed Enclosure: Type 1				Volts: 208Y/120V 3P 4W Phases: 3 Wires: 4			A.I.C. Rating: FIELD VERIFY Mains Type: Mains Rating: 150 A MCB Rating:				
CKT #	Load Name	CKT BRK	A	B	C	A	B	C	CKT BRK	Load Name	CKT #
1	(E) WELDER	60A/3	0	0	0	0	0	0	20A/1	(E) NOT LABELED	2
3	-	-	0	0	0	0	0	0	-	(E) SPACE	4
5	-	-	0	0	0	0	0	0	-	(E) SPACE	6
7	(E) WELDER	40A/2	0	0	0	0	0	0	50A/3	(E) WELDER	8
9	-	-	0	0	0	0	0	0	-	(E) SPACE	10
11	(E) SPAC	-	0	0	0	0	0	0	-	(E) SPACE	12
13	(E) SPAC	-	0	0	0	0	0	0	70A/3	(E) NOT LABELED	14
15	(E) SPAC	-	0	0	0	0	0	0	-	-	16
17	(E) SPAC	-	0	0	0	0	0	0	-	-	18
19	(E) OVERHEAD BUSS DUCT	70A/3	0	0	0	0	0	0	-	(E) SPACE	20
21	-	-	0	0	0	0	0	0	-	(E) SPACE	22
23	-	-	0	0	0	0	0	0	-	(E) SPACE	24
Total Connected KVA By Phase:			0	0	0						
Legend:											
Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals							
				Total Conn. Load: 0 VA							
				Total Est. Demand: 0 VA							
				Total Conn.: 0 A							
				Total Est. Demand: 0 A							
Notes:											

Branch Panel: P-2(R)(E)											
Location: MULTIPURPOSE 62 Supply From: P-2(L)(E) Mounting: Recessed Enclosure: Type 1				Volts: 208Y/120V 3P 4W Phases: 3 Wires: 4			A.I.C. Rating: FIELD VERIFY Mains Type: Mains Rating: 100 A MCB Rating:				
CKT #	Load Name	CKT BRK	A	B	C	A	B	C	CKT BRK	Load Name	CKT #
1	(E) OUTLETS	20A/1	0	0	0	0	0	0	20A/1	(E) OUTLETS NW WALL, N WALL, NE...	2
3	(E) OUTLETS	20A/1	0	0	0	0	0	0	20A/1	(E) OUTLETS PARTS WASHER	4
5	(E) OUTLETS	20A/1	0	0	0	0	0	0	20A/1	(E) HANGING 110V OUTLETS	6
7	(E) OUTLETS	20A/1	0	0	0	0	0	0	20A/1	(E) OUTLETS N/S MOLDING	8
9	(E) OUTLETS	20A/1	0	0	0	0	0	0	20A/1	(E) OUTLETS AMP	10
11	(E) NOT LABELED	20A/1	0	0	0	0	0	0	20A/1	(E) SCORE BOARD	12
13	(E) NOT LABELED	20A/1	0	0	0	0	0	0	20A/1	(E) EXHAUST FAN	14
15	(E) NOT LABELED	20A/2	0	0	0	0	0	0	20A/1	(E) NOT LABELED	16
17	-	-	0	0	0	0	0	0	20A/1	(E) NOT LABELED	18
19	(E) NOT LABELED	20A/3	0	0	0	0	0	0	20A/3	(E) NOT LABELED	20
21	-	-	0	0	0	0	0	0	-	-	22
23	-	-	0	0	0	0	0	0	-	-	24
25	(E) WEIGHT RM AHU	20A/3	0	0	0	0	0	0	70A/3	(E) NOT LABELED	26
27	-	-	0	0	0	0	0	0	-	-	28
29	-	-	0	0	0	0	0	0	-	-	30
31	(E) NOT LABELED	20A/3	0	0	0	0	0	0	70A/3	(E) NOT LABELED	32
33	-	-	0	0	0	0	0	0	-	-	34
35	-	-	0	0	0	0	0	0	-	-	36
Total Connected KVA By Phase:			0	0	0						
Legend:											
Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals							
				Total Conn. Load: 0 VA							
				Total Est. Demand: 0 VA							
				Total Conn.: 0 A							
				Total Est. Demand: 0 A							
Notes:											

Branch Panel: P-3(E)											
Location: STORAGE 50C Supply From: MDP SECTION 4 Mounting: Recessed Enclosure: Type 1				Volts: 208Y/120V 3P 4W Phases: 3 Wires: 4			A.I.C. Rating: FIELD VERIFY Mains Type: Mains Rating: 225 A MCB Rating:				
CKT #	Load Name	CKT BRK	A	B	C	A	B	C	CKT BRK	Load Name	CKT #
1	(E) SPACE	100A/3	0	0	0	0	0	0	100A/3	(E) SPARE	2
3	(E) SPACE	-	0	0	0	0	0	0	-	-	4
5	(E) SPACE	-	0	0	0	0	0	0	-	-	6
7	(E) PLUGMOLD	20A/1	0	0	0	0	0	0	20A/1	(E) CONTROL CIRCUIT FOR AIR COND.	8
9	(E) PLUGMOLD	20A/1	0	0	0	0	0	0	20A/1	(E) OUTLETS	10
11	(E) NOT LABELED	20A/1	0	0	0	0	0	0	20A/1	(E) PLUGMOLD	12
13	(E) FAN	20A/1	0	0	0	0	0	0	20A/1	(E) AUTOMATED LOGIC CABINET	14
15	(E) FAN	20A/1	0	0	0	0	0	0	20A/1	(E) NOT LABELED	16
17	(E) FAN	20A/1	0	0	0	0	0	0	20A/1	(E) NOT LABELED	18
19	(E) UNIT #4	20A/3	0	0	0	0	0	0	20A/3	(E) SPACE	20
21	-	-	0	0	0	0	0	0	-	(E) SPACE	22
23	-	-	0	0	0	0	0	0	-	(E) SPACE	24
25	(E) UNIT #42	20A/3	0	0	0	0	0	0	20A/1	(E) DEDICATED CIRCUIT	26
27	-	-	0	0	0	0	0	0	20A/1	(E) FIRE ALARM EXTENDER PANEL	28
29	-	-	0	0	0	0	0	0	20A/1	(E) NOT LABELED	30
31	(E) AIR COND SMALL	30A/3	0	0	0	0	0	0	20A/3	(E) COMPUTER	32
33	-	-	0	0	0	0	0	0	-	-	34
35	-	-	0	0	0	0	0	0	-	-	36
37	(E) NOT LABELED	30A/3	0	0	0	0	0	0	20A/3	(E) NOT LABELED	38
39	-	-	0	0	0	0	0	0	-	-	40
41	-	-	0	0	0	0	0	0	-	-	42
Total Connected KVA By Phase:			0	0	0						
Legend:											
Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals							
				Total Conn. Load: 0 VA							
				Total Est. Demand: 0 VA							
				Total Conn.: 0 A							
				Total Est. Demand: 0 A							
Notes:											

Switchboard: MDP SECTION 3						
Location: ELEC. 130E Supply From: MDP SECTION 2 Mounting: Floor Enclosure: 1			Volts: 208Y/120V 3P 4W Phases: 3 Wires: 4		A.I.C. Rating: Mains Type: 3000 A MCB Rating:	
CKT	Circuit Description	# of Poles	Frame Size	Trip Rating	Load	Remarks
1	P-1 - PUMP #1(E)	3	--	125 A	0 VA	
2	WC-1 - CHILLER(E)	3	--	600 A	0 VA	
3	PANEL K(R)(E)	3	400 A	400 A	0 VA	
4	PANEL F(L)(E)	3	400 A	400 A	0 VA	
5	PANEL K(E)	3	400 A	100 A	0 VA	
6	DIMMER RACK(E)	3	400 A	400 A	0 VA	
7	NOT LABELED	3	--	225 A	0 VA	
8	P-2 - PUMP #2(E)	3	--	125 A	0 VA	
9	PANEL E(L)(E)	3	400 A	225 A	0 VA	
10	PANEL D(L)(E)	3	400 A	225 A	0 VA	
11	SPARE	3	--	225 A	0 VA	
12	P-3 - PUMP #3(E)	3	--	70 A	0 VA	
13	PANEL 1B(E)	3	400 A	100 A	0 VA	
14	PANEL A(L)(E)	3	400 A	225 A	0 VA	
15	RTU-3 - ROOF TOP UNIT #3(E)	3	--	350 A	0 VA	
16	PANEL B(L)(E)	3	400 A	225 A	0 VA	
17	PANEL C(L)(E)	3	400 A	225 A	0 VA	
18	SURGE PROTECTOR	3	--	70 A	0 VA	
19	RTU-2 - ROOF TOP UNIT #2(E)	3	--	350 A	0 VA	
20	SPARE	3	--	225 A	0 VA	
21	SPARE	3	--	225 A	0 VA	
22	SPARE	3	--	225 A	0 VA	
23	SPARE	3	--	225 A	0 VA	
24	SPARE	3	--	225 A	0 VA	
25	SPARE	3	--	100 A	0 VA	
26	SPARE	3	--	100 A	0 VA	
27	SPARE	3	--	100 A	0 VA	
28	SPARE	3	--	100 A	0 VA	
Total Conn. Load: 1064164 VA					Total Amps: 2954 A	
Legend:						
Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals		
HVAC	44748 VA	100.00%	44748 VA	Total Conn. Load: 1064164 VA		
Kitchen Equipment - Non-Dwelling Unit	123886 VA	65.00%	80526 VA	Total Est. Demand: 870580 VA		
Motor	189798 VA	104.38%	198111 VA	Total Conn.: 2954 A		
Other	1489 VA	125.00%	1862 VA	Total Est. Demand: 2416 A		
Receptacle	126580 VA	53.95%	68290 VA			
Power	35792 VA	125.00%	44741 VA			
Lighting	17899 VA	125.00%	22374 VA			
Diverse 40%	189743 VA	40.00%	75897 VA			
EXISTING SERVICE LOAD	335048 VA	100.00%	335048 VA			
Notes:						

THE LOAD CALCULATION INDICATED ON THIS SCHEDULE (954.34 KVA CALCULATED) INDICATED THE ANTICIPATED ELECTRICAL LOAD THAT WILL EXIST BASED ON POWER CONSUMING EQUIPMENT IN THE BUILDING AT THE TIME OF DESIGN. THIS CALCULATION INCLUDES THE EXISTING PEAK DEMAND INFORMATION FOR THE FACILITY AT 125% PLUS THE NEW LOADS ANTICIPATED FOR THE BUILDING. THIS CALCULATION ALSO TAKES THE DEMOLITION LOADS REMOVED FROM THE BUILDING INTO ACCOUNT. HISTORIC PEAK DEMAND OBSERVED IN AUGUST 2019 INDICATED AN ELECTRICAL PEAK DEMAND OF 1,164A.

Switchboard: MDP SECTION 4						
Location: ELEC. 130E Supply From: MDP SECTION 3 Mounting: Floor Enclosure: 1			Volts: 208Y/120V 3P 4W Phases: 3 Wires: 4		A.I.C. Rating: Mains Type: 3000 A MCB Rating:	
CKT	Circuit Description	# of Poles	Frame Size	Trip Rating	Load	Remarks
1	PANEL M(E)	3	600 A	600 A	0 VA	
2	RTU-1 - ROOF TOP UNIT(E)	3	--	600 A	0 VA	
3	SPARE	3	--	225 A	0 VA	
4	PANEL L-15(L)	3	225 A	225 A	73931 VA	
5	PANEL L-7(L)	3	225 A	225 A	173549 VA	
6	PANEL L-8(L)(E)	3	400 A	175 A	0 VA	
7	PANEL P-3(E)	3	400 A	150 A	0 VA	
8	PANEL L-9(L)(E)	3	400 A	125 A	0 VA	
9	L-3(L)(E)	3	225 A	225 A	26219 VA	
10	PANEL L-2(L)(E)	3	400 A	125 A	14328 VA	
11	PANEL L-1(L)	3	400 A	125 A	26311 VA	
12	PLUG-IN PANEL(E)	3	400 A	150 A	0 VA	
13	PANEL L-11(L)(E)	3	400 A	225 A	0 VA	
14	CHILLER #2(E)	3	--	225 A	0 VA	
15	PANEL L-12(L)(E)	3	400 A	225 A	0 VA	
16	PANEL L-6(L)(E)	3	400 A	200 A	0 VA	
17	P-1(L)(E)	3	100 A	100 A	2088 VA	
18	PANEL L-10(E)	3	400 A	100 A	0 VA	
19	PANEL L-4(E)	3	400 A	100 A	0 VA	
20	ROOF TOP UNIT(E)	3	--	100 A	0 VA	
21	PANEL P-2(L)(E)	3	400 A	100 A	0 VA	
22	SPARE	3	--	225 A	0 VA	
23	SPARE	3	--	225 A	0 VA	
24	SPARE	3	--	225 A	0 VA	
25	SPARE	3	--	100 A	0 VA	
26	SPARE	3	--	100 A	0 VA	
27	SPARE	3	--	100 A	0 VA	
28	SPARE	3	--	100 A	0 VA	
Total Conn. Load: 729122 VA					Total Amps: 2024 A	
Legend:						
Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals		
HVAC	44748 VA	100.00%	44748 VA	Total Conn. Load: 729122 VA		
Kitchen Equipment - Non-Dwelling Unit	123886 VA	65.00%	80526 VA	Total Est. Demand: 535548 VA		
Motor	189798 VA	104.38%	198111 VA	Total Conn.: 2024 A		
Other	1489 VA	125.00%				