



**DANE COUNTY DEPT. OF
PUBLIC WORKS, HIGHWAY &
TRANSPORTATION**

1919 Alliant Energy Center Way
Madison, Wisconsin 53713
Office: 608/266-4018 ♦ Fax: 608/267-1533
Public Works Engineering Division

ADDENDUM

MARCH 9, 2021

ATTENTION ALL REQUEST FOR BID (RFB) HOLDERS

RFB NO. 320038 - ADDENDUM NO. 02

DANE COUNTY SHERIFF'S SE PRECINCT REMODEL AND ADDITION

BIDS DUE: TUESDAY, MARCH 16, 2021, 2:00 PM.
DUE DATE AND TIME ARE NOT CHANGED BY THIS ADDENDUM.

This Addendum is issued to modify, explain or clarify the original Request for Bid (RFB) and is hereby made a part of the RFB. Please attach this Addendum to the RFB.

PLEASE MAKE THE FOLLOWING ADDITION

1. Pre-Bid Site Tour Attendance

The attendee sign in sheet for the Pre-Bid Site Tour conducted on February 18, 2021 is included for reference, labeled Addendum 02 EXHIBIT A.

PLEASE NOTE RESPONSES TO THE FOLLOWING BIDDER-SUBMITTED QUESTIONS

- Q1: We are bidding a locker job for the Dane County SE Precinct Remodel that Spacesaver is specified for and had a couple questions: How tall and wide do the lockers need to be? What is meant by "future lockers" on drawings?
- A1: Section 10 51 13 – Metal Lockers is updated as part of Addendum 02 to indicate locker sizes. Future Lockers is shown as future planning and will not be part of this project.
- Q2: We had trouble finding any detailed specs for the exterior lit signage; specifically the LED internally lit building sign ("Dane County Sheriff Southeast Precinct"), and the illuminated building sign (the shield). Do you have any more detailed drawings for those components?
- A2: Please refer to specifications Section 10 14 00 – Signage, Article 2.2 Exterior Signage. Additional detail has been added to Drawing Sheet A201.
- Q3: Asphalt - Please verify the heavy duty pavement and standard pavement areas on C2.0. The notes and legend shading don't match. It is not clear on the plans. We want to get the correct square footage.
- A3: Civil Drawing Sheet Notes were inadvertently turned off in printed set. Drawings have been replaced as part of this Addendum, 02 with appropriate paving notes.

Q4: The Cameras listed on the camera schedule on the maps are a different series than the cameras specified in the Project Manual. They also do not meet the specifications listed in the Project Manual. Which specifications take priority, the ones listed in the Project Manual or the cameras listed on the camera schedule on the maps?

A4: The Drawing Sheet Schedule is correct. Specifications are corrected as part of this Addendum 02.

PLEASE MAKE THE FOLLOWING CHANGES:

PROJECT MANUAL VOLUME 1:

1. Section 00 72 13

Page 20 – Section 47. Minimum Wages
Delete paragraphs A through D. Replace with:

“A. Not used.”

2. Section 08 71 00 – Door Hardware

Replace this section in its entirety with updated hardware specifications and Hardware Sets as indicated.

3. Section 10 51 13 – Metal Lockers

Replace this section in its entirety with updated Locker Sizes as indicated.

PROJECT MANUAL VOLUME 2:

4. Section 22 14 29

Add this section in its entirety.

5. Section 22 11 16

Item 2.01.C - Acceptable Manufacturers, Commercial Expansion Tanks
Add: “5. Watts”

6. Section 22 31 00

Item 2.01.A - Acceptable Manufacturers, Water Softeners
Add: “3. Water Control Corporation”

7. Section 23 38 13

Item 2.01.A - Acceptable Manufacturers, Kitchen Exhaust Hoods and Exhaust Fans
Add: “5. Denlar”

8. Section 23 55 23

Item 2.01.A - Acceptable Manufacturers, Gas-Fired, Vented Infrared Radiant Heaters
Add: “3. Advanced Radiant Systems”

9. Section 23 72 00

Item 2.01.A - Acceptable Manufacturers, Electric Cabinet Unit Heaters

Add: "4. York"

10. Section 23 81 27

Item 2.01.A - Acceptable Manufacturers, Electric Cabinet Unit Heaters
Add: "5. Samsung"

11. Section 23 82 39

Item 2.01.A - Acceptable Manufacturers, Electric Cabinet Unit Heaters
Add: "6. Markel"

12. Section 28 60 00.2.C.1

Refer to construction drawings Sheet TY500 – Security Details and Schedules: Vide Surveillance Schdule.

- a. Follow the schedules direction regarding Avigilon IP Camera models in lieu of this secation items a, b, and c.

13. Section 32 92 00 – Trees Shrubs and Other Plantings

Replace this section in it's entirety with updated planting information as indicated.

CONSTRUCTION DRAWINGS VOLUME 1:

14. Sheet C2.0

Modify current Sheet C2.0 Site Pan as indicated and issued with this Addendum.

15. Sheet C3.0

Modify current Sheet C3.0 Grading and Erosion Control Plan as indicated and issued with this Addendum.

16. Sheet C3.1

Modify current Sheet C3.1 Detailed Grading Plan as indicated and issued with this Addendum.

17. Sheet C4.0

Modify current Sheet C4.0 Utility Plan as indicated and issued with this Addendum.

18. Sheet L2.0

Modify current Sheet L2.0 Landscape Details and Ntoes as indicated and issued with this Addendum.

19. Sheet AD101

Modify current Sheet AD101 Demolition Plans as indicated and issued with this Addendum.

20. Sheet AD701

Modify current Sheet AD701 Demolition Reflected Ceiling Plans as indicated and issued with this Addendum.

21. Sheet A101

Modify current Sheet A101 Overall Floor Plans as indicated and issued with this Addendum.

22. Sheet A112

Modify current Sheet A112 Enlarged Floor Plans as indicated and issued with this Addendum.

23. Sheet A141

Modify current Sheet A141 Vertical Circulation Plans, Sections, and Details as indicated and issued with this Addendum.

24. Sheet A142

Modify current Sheet A142 Vertical Circulation Plans, Sections, and Details as indicated and issued with this Addendum.

25. Sheet A143

Modify current Sheet A143 Vertical Circulation Plans, Sections, and Details as indicated and issued with this Addendum.

26. Sheet A201

Modify current Sheet A201 Exterior Elevations as indicated and issued with this Addendum.

27. Sheet A301

Modify current Sheet A301 Building Sections as indicated and issued with this Addendum.

28. Sheet A302

Modify current Sheet A302 Building Sections as indicated and issued with this Addendum.

29. Sheet A314

Modify current Sheet A314 Wall Sections as indicated and issued with this Addendum.

30. Sheet A601

Modify current Sheet A601 Interior Elevations as indicated and issued with this Addendum.

31. Sheet A701

Modify current Sheet A701 Reflected Ceiling Plans as indicated and issued with this Addendum.

32. Sheet A712

Modify current Sheet A712 Enlarged Reflected Ceiling Plans as indicated and issued with this Addendum.

33. Sheet A801

Modify current Sheet A801 Finish Floor Plans as indicated and issued with this Addendum.

34. Sheet A811

Modify current Sheet A811 Door, Window, and Finish Information as indicated and issued with this Addendum.

35. Sheet S001

Modify current Sheet S001 Structural General Notes as indicated and issued with this Addendum.

- a. Update Structural Sheet Index.

36. Sheet S101

Modify current Sheet S101 Foundation Plan as indicated and issued with this Addendum.

- a. Add sump pit.
- b. Add footing steps at sump pit.
- c. Add detail 4.

37. Sheet S201

Modify current Sheet S201 1st Floor and Mezzanine Framing Plan as indicated and issued with this Addendum.

- a. Revise top of sheathing elevation at Storage Room.

38. Sheet S302

Modify current Sheet S302 Foundation Details as indicated and issued with this Addendum.

- a. Detail 5/S302- Revise top of sheathing elevation at Storage Room.

39. Sheet S303

Modify current Sheet S302 Foundation Details as indicated and issued with this Addendum.

- a. Add detail 4

CONSTRUCTION DRAWINGS VOLUME 2:

40. Sheet P100

Modify current Sheet P100 as shown on Drawing 1 as follows and issued with this Addendum:

- d. Modify to reduce the amount of sanitary waste piping upstream of the grease interceptor per request of the plumbing plan reviewer.
- e. Add storm piping and sump pump to serve site trench drain shown on Civil plans.

41. Sheet P101

Modify current Sheet P101 as shown on Drawing 1 as follows and issued with this Addendum:

- a. Modify to reduce the amount of sanitary waste piping upstream of the grease interceptor per request of the plumbing plan reviewer.
- b. Add storm piping and sump pump to serve trench drain shown on Civil plans and discharge above grade.

42. Sheet P400

Modify current Sheet P400 as follows and issued with this Addendum:

- a. Modify Detail 1 isometric to reduce the amount of sanitary waste piping upstream of the grease interceptor per request of the plumbing plan reviewer.
- b. Add note to the bottom fo the Water Piping Sizing Chart: “When using CPVC for water distribution piping, check the manufacturers recommendations and installation instructions for expansion loops. Contractor is required to comply with those requirements and insall accordingly.”

43. Sheet P500

Modify current Sheet P500 as shown to add Detail P-250, issued with this Addendum.

44. Sheet P510

Modify current Sheet P510 as follows and issued with this Addendum:

- a. Add the following to the Accessories / Notes to Plumbing Fixture SB-1: “Provide with ASSE 1020 or CSA B64.1.2 compliant vacuum breaker on the supply connections.”
- b. Add downspout nozzle DSN-1.
- c. Add Sump Pump Schedule.

45. Sheet H500

Modify current Sheet H500 as follows and issued with this Addendum:

- a. Add Sump Pump Controls Schematic.

46. Sheet E201

Modify current Sheet E201 as shown on Drawing 1 as follows: add receptical and GFI receptical to serve EWC, add equipment connection for SP-1, issued with this Addendum.

Modify current Sheet E201 as shown on Drawing 2 as follows: add special receptacle to Work Room 120 for electric range, modify floorboxes in Deputy Open Office 108, modify location of Panel A, issued with this Addendum.

47. Sheet E510

Modify current Sheet E510 as shown on Panel A Schedule as follows: modify Panel A to be 72 space panel, add 40A two pole circuit for electric range, issued with this Addendum.

Modify current Sheet E510 as shown on Panel P1 Schedule as follows: add 20A circuit for EWC, issued with this Addendum.

Modify current Sheet E510 as shown on Panel B Schedule as follows: add 20A/3P circuit for SP-1, issued with this Addendum.

48. Sheet E520

Modify current Sheet E520 as shown on activation box schedule as follows: modify AB-2 to include telecommunications ports and conduits, issued with this Addendum.

49. Sheet E532

Modify current Sheet E532: add detail E551-01 bollard mounting detail, issued with this Addendum.

50. Sheet T101

Modify current Sheet T101 as shown on Drawing 2 as follows: add telecommunication openings to activation boxes in Deputy Open Office 108, issued with this Addendum.

PLEASE NOTE THE FOLLOWING APPROVED PRODUCTS:

Pursuant to requirements of Section 01 00 00-8 – General Requirements, Section 1.31 Product Options, the following products are approved as “equal”:

1. Section 10 11 50 – Glass Markerboards:

PART 2 PRODUCTS: Fulbright Glass Boards, ¼” Tempered, Low Iron Safety Glass, fulbrightglassboards.com.

If any additional information about this Addendum is needed, please contact Steve Richards at 608/513-8367, richards.steve@countyofdane.com.

Sincerely,

Steve Richards

Project Manager

Enclosures:

Section 08 71 00	Sheet A701
Section 10 51 13	Sheet A712
Section 22 14 29	Sheet A801
Section 32 92 00	Sheet A811
Sheet C2.0	Sheet S001
Sheet C3.0	Sheet S101
Sheet C3.1	Sheet S201
Sheet C4.0	Sheet S302
	Sheet S303
Sheet L2.0	
Sheet AD101	Sheet P100
Sheet AD701	Sheet P101
	Sheet P400
	Sheet P500
	Sheet P510
Sheet A101	
Sheet A112	
Sheet A141	Sheet H500
Sheet A142	
Sheet A143	Sheet E201
Sheet A201	Sheet E510
Sheet A301	Sheet E520
Sheet A302	Sheet E532
Sheet A314	
Sheet A601	Sheet T101

DANE COUNTY

Department of Public Works,
Highway & Transportation

PRE-BID SITE TOUR

SE PRECINCT REMODEL AND ADDITION

125 Veterans Rd, Stoughton, WI

Name	Company	Phone No.
Sam Briggs	Prefer Power	630-41124
Sean Chambers	Alliance Demo	847-783-6585
Peter Buroit	SGTS, Inc.	608-212-4754
Ed Engle	Trachman Const	608-222-8869
Rick Bower	Bower Const.	920-850-3152
Tim Kaden	^{timk@asgelectricwi.com} ASGE Electric	279-5247
Jared Ramthun	Design Engineers	608-424-8815
Allison Rowe	Design Engineers	608-424-8815
Brett Pappas	Universal Power Systems	608-226-8600
Carolyn Treting	Universal Power Systems	608-226-8600
James Sawyer	Main Fire Protection	608-347-5235
Gary Tree	Advanced Bldg Corp	608-209-2352
Mike Schwartz	DAVE JONES	608-235-3225
Seth Luedtke	Staff	414-588-7907
JAMIE BAARKE	Midwest Electric	262-352-6759
Adam Rowland	Monora Plumbing + Fire	212-3328
Patricia Kuhn	DJI	608-279-1596

DANE COUNTY

Department of Public Works,
Highway & Transportation

PRE-BID SITE TOUR

SE PRECINCT REMODEL AND ADDITION

125 Veterans Rd, Stoughton, WI

Name	Company	Phone No.
NICK SCHUCH	Vogel Bros. BLDG Co	608-440-0893
DAVE BULTMAN	Butters Fetting	608-438-9222
Jeff Trompeter		
Dean Cirio	CSchmidt	608 960 4117
Gavin Jasmer	Tri-North	608-204-7239
STEVE NADOLSKI	SURE FIRE	920-296-6496
JERRY BUSH	US VET	608-807-4761
Ron Fencel	Fencel Fire Protection	608-445-0542
MICHAEL HERNER	THE DAVEN GROUP	970-989-3928
BRIAN HOTCHKISS	THE DAVEN GROUP	608-347-8728
MIKE SCHWARTZ	USA FIRE PROTECTION	920-378-0941
Aaron Burlingame	DML	715-315-0006
STEVE HANSEN	DANIELS	608-444-4532
Matt Hamilton	HS Pertzborn	608-256-3900
DAN BROW	KSW CONSTRUCTION	608 333 1602
Kayla Hansen	khansen@bachmannconstruction.net	608-222-8069
Chris Soule	chris@tsmasonry.net	608-513-9016

Randy Spang 1901 Inc Rspang@1901Inc.com

Jerry Kisgen ASG Electric jerryk@asgelectricwi.com

Jenny Grotewski CBRE Jenny.Grotewski@CBRE.COM

SECTION 08 71 00
DOOR HARDWARE

PART 1 GENERAL

1.1 SECTION INCLUDES

- A. Door Hardware.
- B. Door Hardware Sets.

1.2 RELATED REQUIREMENTS

- A. Section 08 11 13 – Hollow Metal Doors and Frames.
- B. Section 08 14 16 – Flush Wood Doors.
- C. Section 08 43 13 – Aluminum Framed Storefronts.

1.3 CODES AND REFERENCE STANDARDS

- A. ANSI A117.1 - Accessible and Usable Buildings and Facilities.
- B. ICC/IBC - International Building Code.
- C. NFPA 70 - National Electrical Code.
- D. NFPA 80 - Fire Doors and Windows.
- E. NFPA 101 - Life Safety Code.
- F. NFPA 105 - Installation of Smoke Door Assemblies.
- G. State Building Codes, Local Amendments.
- H. ANSI/BHMA Certified Product Standards - A156 Series.
- I. UL10C – Positive Pressure Fire Tests of Door Assemblies.
- J. ANSI/UL 294 – Access Control System Units.
- K. ULC-S319 - Electronic Access Control Systems.
- L. ULC-60839-11-1, Alarm and Electronic Security Systems - Part 11-1: Electronic Access Control Systems - System and Components Requirements.
- M. UL 305 – Panic Hardware.
- N. ULC-S132, Emergency Exit and Emergency Fire Exit Hardware.
- O. ULC-S533 – Egress Door Securing and Releasing Devices.
- P. ANSI/UL 437- Key Locks.
- Q. ULC-S328, - Burglary Resistant Key Locks.

1.4 SUBMITTALS

- A. Product Data: Manufacturer's product data sheets including installation details, material descriptions, dimensions of individual components and profiles, operational descriptions and finishes.
- B. Door Hardware Schedule: Prepared by or under the supervision of supplier, detailing fabrication and assembly of door hardware, as well as procedures and diagrams. Coordinate the final Door Hardware Schedule with doors, frames, and related work to ensure proper size, thickness, hand, function, and finish of door hardware.
 - 1. Format: Comply with scheduling sequence and vertical format in DHI's "Sequence and Format for the Hardware Schedule."
 - 2. Organization: Organize the Door Hardware Schedule into door hardware sets indicating complete designations of every item required for each door or opening. Organize door hardware sets in same order as in the Door Hardware Sets at the end of Part 3. Submittals that do not follow the same format and order as the Door Hardware Sets will be rejected and subject to resubmission.
 - 3. Content: Include the following information:
 - a. Type, style, function, size, label, hand, and finish of each door hardware item.
 - b. Manufacturer of each item.

- c. Fastenings and other pertinent information.
 - d. Location of door hardware set, cross-referenced to Drawings, both on floor plans and in door and frame schedule.
 - e. Explanation of abbreviations, symbols, and codes contained in schedule.
 - f. Mounting locations for door hardware.
 - g. Door and frame sizes and materials.
 - h. Warranty information for each product.
4. Submittal Sequence: Submit the final Door Hardware Schedule at earliest possible date, particularly where approval of the Door Hardware Schedule must precede fabrication of other work that is critical in the Project construction schedule. Include Product Data, Samples, Shop Drawings of other work affected by door hardware, and other information essential to the coordinated review of the Door Hardware Schedule.
- C. Shop Drawings: Details of electrified access control hardware indicating the following:
- 1. Wiring Diagrams: Upon receipt of approved schedules, submit detailed system wiring diagrams for power, signaling, monitoring, communication, and control of the access control system electrified hardware. Differentiate between manufacturer-installed and field-installed wiring. Include the following:
 - a. Elevation diagram of each unique access controlled opening showing location and interconnection of major system components with respect to their placement in the respective door openings.
 - b. Complete (risers, point-to-point) access control system block wiring diagrams.
 - c. Wiring instructions for each electronic component scheduled herein.
 - 2. Electrical Coordination: Coordinate with related sections the voltages and wiring details required at electrically controlled and operated hardware openings.
- D. Keying Schedule: After a keying meeting with the owner has taken place prepare a separate keying schedule detailing final instructions. Submit the keying schedule in electronic format. Include keying system explanation, door numbers, key set symbols, hardware set numbers and special instructions. Owner must approve submitted keying schedule prior to the ordering of permanent cylinders/cores.
- E. Informational Submittals:
- 1. Product Test Reports: Indicating compliance with cycle testing requirements, based on evaluation of comprehensive tests performed by manufacturer and witnessed by a qualified independent testing agency.
- F. Operating and Maintenance Manuals: Provide manufacturers operating and maintenance manuals for each item comprising the complete door hardware installation in quantity as required in Division 01, Closeout Procedures.

1.5 QUALITY ASSURANCE

- A. Manufacturers Qualifications: Engage qualified manufacturers with a minimum 5 years of documented experience in producing hardware and equipment similar to that indicated for this Project and that have a proven record of successful in-service performance.
- B. Certified Products: Where specified, products must maintain a current listing in the Builders Hardware Manufacturers Association (BHMA) Certified Products Directory (CPD).
- C. Installer Qualifications: A minimum 3 years documented experience installing both standard and electrified door hardware similar in material, design, and extent to that indicated for this Project and whose work has resulted in construction with a record of successful in-service performance.
- D. Door Hardware Supplier Qualifications: Experienced commercial door hardware distributors with a minimum 5 years documented experience supplying both mechanical and electromechanical hardware installations comparable in material, design, and extent to that indicated for this Project. Supplier recognized as a factory direct distributor by the manufacturers of the primary materials with a warehousing facility in Project's vicinity. Supplier to have on staff a certified Architectural Hardware Consultant (AHC) available during the course of the Work to consult with Contractor, Architect, and Owner concerning both standard and electromechanical door hardware and keying.
- E. Source Limitations: Obtain each type and variety of door hardware specified in this section from a single source unless otherwise indicated.
 - 1. Electrified modifications or enhancements made to a source manufacturer's product line by a secondary or third party source will not be accepted.
 - 2. Provide electromechanical door hardware from the same manufacturer as mechanical door hardware, unless otherwise indicated.
- F. Each unit to bear third party permanent label demonstrating compliance with the referenced standards.

- G. Keying Conference: Conduct conference to comply with requirements in Division 01 Section "Project Meetings." Keying conference to incorporate the following criteria into the final keying schedule document:
 - 1. Function of building, purpose of each area and degree of security required.
 - 2. Plans for existing and future key system expansion.
 - 3. Requirements for key control storage and software.
 - 4. Installation of permanent keys, cylinder cores and software.
 - 5. Address and requirements for delivery of keys.
- H. Pre-Submittal Conference: Conduct coordination conference in compliance with requirements in Division 01 Section "Project Meetings" with attendance by representatives of Supplier(s), Installer(s), and Contractor(s) to review proper methods and the procedures for receiving, handling, and installing door hardware.
 - 1. Prior to installation of door hardware, conduct a project specific training meeting to instruct the installing contractors' personnel on the proper installation and adjustment of their respective products. Product training to be attended by installers of door hardware (including electromechanical hardware) for aluminum, hollow metal and wood doors. Training will include the use of installation manuals, hardware schedules, templates and physical product samples as required.
 - 2. Inspect and discuss electrical roughing-in, power supply connections, and other preparatory work performed by other trades.
 - 3. Review sequence of operation narratives for each unique access controlled opening.
 - 4. Review and finalize construction schedule and verify availability of materials.
 - 5. Review the required inspecting, testing, commissioning, and demonstration procedures
- I. At completion of installation, provide written documentation that components were applied to manufacturer's instructions and recommendations and according to approved schedule.

1.6 DELIVERY, STORAGE, AND HANDLING

- A. Inventory door hardware on receipt and provide secure lock-up and shelving for door hardware delivered to Project site. Do not store electronic access control hardware, software or accessories at Project site without prior authorization.
- B. Templates: Obtain and distribute to the parties involved templates for doors, frames, and other work specified to be factory prepared for installing standard and electrified hardware. Check Shop Drawings of other work to confirm that adequate provisions are made for locating and installing hardware to comply with indicated requirements.
- C. Door and Frame Preparation: Doors and corresponding frames are to be prepared, reinforced and pre-wired (if applicable) to receive the installation of the specified electrified, monitoring, signaling and access control system hardware without additional in-field modifications.
- D.
- E. Tag each item or package separately with identification related to the final Door Hardware Schedule, and include basic installation instructions with each item or package.
- F. Deliver, as applicable, permanent keys, cylinders, cores, access control credentials, software and related accessories directly to Owner via registered mail or overnight package service. Instructions for delivery to the Owner shall be established at the "Keying Conference".

1.7 COORDINATION

- A. Templates: Obtain and distribute to the parties involved templates for doors, frames, and other work specified to be factory prepared for installing standard and electrified hardware. Check Shop Drawings of other work to confirm that adequate provisions are made for locating and installing hardware to comply with indicated requirements.
- B. Door and Frame Preparation: Doors and corresponding frames are to be prepared, reinforced and pre-wired (if applicable) to receive the installation of the specified electrified, monitoring, signaling and access control system hardware without additional in-field modifications.

1.7 WARRANTY

- C. General Warranty: Reference Division 01, General Requirements. Special warranties specified in this Article shall not deprive Owner of other rights Owner may have under other provisions of the Contract Documents and shall be in addition to, and run concurrent with, other warranties made by Contractor under requirements of the Contract Documents.

- D. Warranty Period: Written warranty, executed by manufacturer(s), agreeing to repair or replace components of standard and electrified door hardware that fails in materials or workmanship within specified warranty period after final acceptance by the Owner. Failures include, but are not limited to, the following:
 - 1. Structural failures including excessive deflection, cracking, or breakage.
 - 2. Faulty operation of the hardware.
 - 3. Deterioration of metals, metal finishes, and other materials beyond normal weathering.
 - 4. Electrical component defects and failures within the systems operation.
- E. Standard Warranty Period: One year from date of Substantial Completion, unless otherwise indicated.
- F. Special Warranty Periods:
 - 1. Ten years for mortise locks and latches.
 - 2. Seven years for heavy duty cylindrical (bored) locks and latches.
 - 3. Five years for exit hardware.
 - 4. Twenty five years for manual overhead door closer bodies.
 - 5. Five years for motorized electric latch retraction exit devices.
 - 6. Two years for electromechanical door hardware.

1.8 MAINTENANCE SERVICE

- A. Maintenance Tools and Instructions: Furnish a complete set of specialized tools and maintenance instructions as needed for Owner's continued adjustment, maintenance, and removal and replacement of door hardware.

PART 2 PRODUCTS

2.1 SCHEDULED DOOR HARDWARE

- A. General: Provide door hardware for each door to comply with requirements in Door Hardware Sets and each referenced section that products are to be supplied under.
- B. Designations: Requirements for quantity, item, size, finish or color, grade, function, and other distinctive qualities of each type of door hardware are indicated in the Door Hardware Sets at the end of Part 3. Products are identified by using door hardware designations, as follows:
 - 1. Named Manufacturer's Products: Product designation and manufacturer are listed for each door hardware type required for the purpose of establishing requirements. Manufacturers' names are abbreviated in the Door Hardware Schedule.
- C. Substitutions: Requests for substitution and product approval for inclusive mechanical and electromechanical door hardware in compliance with the specifications must be submitted in writing and in accordance with the procedures and time frames outlined in Division 01, Substitution Procedures. Approval of requests is at the discretion of the architect, owner, and their designated consultants.

2.2 HANGING DEVICES

- A. Hinges: ANSI/BHMA A156.1 certified butt hinges with number of hinge knuckles and other options as specified in the Door Hardware Sets.
 - 1. Quantity: Provide the following hinge quantity:
 - a. Two Hinges: For doors with heights up to 60 inches.
 - b. Three Hinges: For doors with heights 61 to 90 inches.
 - c. Four Hinges: For doors with heights 91 to 120 inches.
 - d. For doors with heights more than 120 inches, provide 4 hinges, plus 1 hinge for every 30 inches of door height greater than 120 inches.
 - 2. Hinge Size: Provide the following, unless otherwise indicated, with hinge widths sized for door thickness and clearances required:
 - a. Widths up to 3'0": 4-1/2" standard or heavy weight as specified.
 - b. Sizes from 3'1" to 4'0": 5" standard or heavy weight as specified.
 - 3. Hinge Weight and Base Material: Unless otherwise indicated, provide the following:
 - a. Exterior Doors: Heavy weight, non-ferrous, ball bearing or oil impregnated bearing hinges unless Hardware Sets indicate standard weight.
 - b. Interior Doors: Standard weight, steel, ball bearing or oil impregnated bearing hinges unless Hardware Sets indicate heavy weight.
 - 4. Hinge Options: Comply with the following:

- a. Non-removable Pins: Provide set screw in hinge barrel that, when tightened into a groove in hinge pin, prevents removal of pin while door is closed; for the all out-swinging lockable doors.
- 5. Manufacturers:
 - a. Bommer Industries (BO).
 - b. Hager Companies (HA).
 - c. McKinney Products; ASSA ABLOY Architectural Door Accessories (MK).

2.3 POWER TRANSFER DEVICES

- A. Electrified Quick Connect Transfer Hinges: Provide electrified transfer hinges with Molex™ standardized plug connectors and sufficient number of concealed wires (up to 12) to accommodate the electrified functions specified in the Door Hardware Sets. Connectors plug directly to through-door wiring harnesses for connection to electric locking devices and power supplies. Wire nut connections are not acceptable.
 - 1. Manufacturers:
 - a. Hager Companies (HA) - ETW-QC (# wires) Option.
 - b. McKinney Products; ASSA ABLOY Architectural Door Accessories (MK) - QC (# wires) Option.
- B. Electric Door Wire Harnesses: Provide electric/data transfer wiring harnesses with standardized plug connectors to accommodate up to twelve (12) wires. Connectors plug directly to through-door wiring harnesses for connection to electric locking devices and power supplies. Provide sufficient number and type of concealed wires to accommodate electric function of specified hardware. Provide a connector for through-door electronic locking devices and from hinge to junction box above the opening. Wire nut connections are not acceptable. Determine the length required for each electrified hardware component for the door type, size and construction, minimum of two per electrified opening.
 - 1. Provide one each of the following tools as part of the base bid contract:
 - a. McKinney Products; ASSA ABLOY Architectural Door Accessories (MK) - Electrical Connecting Kit: QC-R001.
 - b. McKinney Products; ASSA ABLOY Architectural Door Accessories (MK) - Connector Hand Tool: QC-R003.
 - 2. Manufacturers:
 - a. Hager Companies (HA) - Quick Connect.
 - b. McKinney Products; ASSA ABLOY Architectural Door Accessories (MK) – QC-C Series.

2.4 DOOR OPERATING TRIM

- A. Flush Bolts and Surface Bolts: ANSI/BHMA A156.3 and A156.16, Grade 1, certified.
 - 1. Flush bolts to be furnished with top rod of sufficient length to allow bolt retraction device location approximately six feet from the floor.
 - 2. Furnish dust proof strikes for bottom bolts.
 - 3. Surface bolts to be minimum 8" in length and U.L. listed for labeled fire doors and U.L. listed for windstorm components where applicable.
 - 4. Provide related accessories (mounting brackets, strikes, coordinators, etc.) as required for appropriate installation and operation.
 - 5. Manufacturers:
 - a. Door Controls International (DC).
 - b. Rockwood Products; ASSA ABLOY Architectural Door Accessories (RO).
 - c. Trimco (TC).
- B. Door Push Plates and Pulls: ANSI/BHMA A156.6 certified door pushes and pulls of type and design specified in the Hardware Sets. Coordinate and provide proper width and height as required where conflicting hardware dictates.
 - 1. Push/Pull Plates: Minimum .050 inch thick, size as indicated in hardware sets, with beveled edges, secured with exposed screws unless otherwise indicated.
 - 2. Door Pull and Push Bar Design: Size, shape, and material as indicated in the hardware sets. Minimum clearance of 2 1/2-inches from face of door unless otherwise indicated.
 - 3. Offset Pull Design: Size, shape, and material as indicated in the hardware sets. Minimum clearance of 2 1/2-inches from face of door and offset of 90 degrees unless otherwise indicated.
 - 4. Fasteners: Provide manufacturer's designated fastener type as indicated in Hardware Sets.
 - 5. Manufacturers:
 - a. Hiawatha, Inc. (HI).
 - b. Rockwood Products; ASSA ABLOY Architectural Door Accessories (RO).
 - c. Trimco (TC).

2.5 CYLINDERS AND KEYING

- A. General: Cylinder manufacturer to have minimum (10) years experience designing secured master key systems and have on record a published security keying system policy.
- B. Cylinders: Original manufacturer cylinders complying with the following:
 - 1. Mortise Type: Threaded cylinders with rings and cams to suit hardware application.
 - 2. Rim Type: Cylinders with back plate, flat-type vertical or horizontal tailpiece, and raised trim ring.
 - 3. Bored-Lock Type: Cylinders with tailpieces to suit locks.
 - 4. Mortise and rim cylinder collars to be solid and recessed to allow the cylinder face to be flush and be free spinning with matching finishes.
 - 5. Keyway: Match Facility Standard.
- C. Interchangeable Cores: Provide small format interchangeable cores as specified, core insert, removable by use of a special key; usable with other manufacturers' cylinders.
- D. Keying System: Each type of lock and cylinders to be factory keyed.
 - 1. Supplier shall conduct a "Keying Conference" to define and document keying system instructions and requirements.
 - 2. Furnish factory cut, nickel-silver large bow permanently inscribed with a visual key control number as directed by Owner.
 - 3. Existing System: Field verify and key cylinders to match Owner's existing system.
- E. Key Quantity: Provide the following minimum number of keys:
 - 1. Change Keys per Cylinder: Two (2)
 - 2. Master Keys (per Master Key Level/Group): Five (5).
 - 3. Construction Keys (where required): Ten (10).
- F. Construction Keying: Provide construction master keyed cylinders.
- G. Key Registration List (Bitting List):
 - 1. Provide keying transcript list to Owner's representative in the proper format for importing into key control software.
 - 2. Provide transcript list in writing or electronic file as directed by the Owner.

2.6 KEY CONTROL

- A. Key Control Cabinet: Provide a key control system including envelopes, labels, and tags with self-locking key clips, receipt forms, 3-way visible card index, temporary markers, permanent markers, and standard metal cabinet. Key control cabinet shall have expansion capacity of 150% of the number of locks required for the project.
 - 1. Manufacturers:
 - a. Lund Equipment (LU).
 - b. MMF Industries (MM).
 - c. Telkee (TK).

2.7 MECHANICAL LOCKS AND LATCHING DEVICES

- A. Mortise Locksets, Grade 1 (Heavy Duty): ANSI/BHMA A156.13, Series 1000, Operational Grade 1 Certified Products Directory (CPD) listed. Locksets are to be manufactured with a corrosion resistant steel case and be field-reversible for handing without disassembly of the lock body.
 - 1. Where specified, provide status indicators with highly reflective color and wording for "locked/unlocked" or "vacant/occupied" with custom wording options if required. Indicator to be located above the cylinder with the inside thumb-turn not blocking the visibility of the indicator status. Indicator window size to be a minimum of 2.1" x 0.6" with a curved design allowing a 180 degree viewing angle with protective covering to prevent tampering.
 - 2. Manufacturers:
 - a. dormakaba Best (BE) – 45H Series.
 - b. No Substitution.
- B. Cylindrical Locksets, Grade 1 (Heavy Duty): ANSI/BHMA A156.2, Series 4000, Operational Grade 1 Certified Products Directory (CPD) listed.
 - 1. Furnish with solid cast levers, standard 2 3/4" backset, and 1/2" (3/4" at rated paired openings) throw brass or stainless steel latchbolt.
 - 2. Locks are to be non-handed and fully field reversible.

3. Extended cycle test: Locks to have been cycle tested in ordinance with ANSI/BHMA 156.2 requirements to 2 million cycles.
4. Manufacturers:
 - a. dormakaba Best (BE) – 9K Series.
 - b. No Substitution.

2.8 LOCK AND LATCH STRIKES

- A. Strikes: Provide manufacturer's standard strike with strike box for each latch or lock bolt, with curved lip extended to protect frame, finished to match door hardware set, unless otherwise indicated, and as follows:
 1. Flat-Lip Strikes: For locks with three-piece antifriction latchbolts, as recommended by manufacturer.
 2. Extra-Long-Lip Strikes: For locks used on frames with applied wood casing trim.
 3. Aluminum-Frame Strike Box: Provide manufacturer's special strike box fabricated for aluminum framing.
 4. Double-lipped strikes: For locks at double acting doors. Furnish with retractable stop for rescue hardware applications.
- B. Standards: Comply with the following:
 1. Strikes for Mortise Locks and Latches: BHMA A156.13.
 2. Strikes for Bored Locks and Latches: BHMA A156.2.
 3. Strikes for Auxiliary Deadlocks: BHMA A156.36.
 4. Dustproof Strikes: BHMA A156.16.

2.9 ELECTRIC STRIKES

- A. Standard Electric Strikes: Electric strikes tested to ANSI/BHMA A156.31, Grade 1, for use on non-rated or fire rated openings. Strikes shall be of stainless steel construction tested to a minimum of 1500 pounds of static strength and 70 foot-pounds of dynamic strength with a minimum endurance of 1 million operating cycles. Provide strikes with 12 or 24 VDC capability, fail-secure unless otherwise specified. Where specified provide latchbolt and latchbolt strike monitoring indicating both the position of the latchbolt and locked condition of the strike.
 1. Manufacturers:
 - a. HES (HS) - 1006 Series.
- B. Surface Mounted Rim Electric Strikes: Surface mounted rim exit device electric strikes tested to ANSI/BHMA A156.31, Grade 1, and UL Listed for both Burglary Resistance and for use on fire rated door assemblies. Construction includes internally mounted solenoid with two heavy-duty, stainless steel locking mechanisms operating independently to provide tamper resistance. Strikes tested for a minimum of 500,000 operating cycles. Provide strikes with 12 or 24 VDC capability supplied standard as fail-secure unless otherwise specified. Option available for latchbolt and latchbolt strike monitoring indicating both the position of the latchbolt and locked condition of the strike. Strike requires no cutting to the jamb prior to installation.
 1. Manufacturers:
 - a. HES (HS) - 9400/9500/9600/9700/9800 Series.
- C. Provide electric strikes with in-line power controller and surge suppressor by the same manufacturer as the strike with the combined products having a five year warranty.

2.10 CONVENTIONAL EXIT DEVICES

- A. General Requirements: All exit devices specified herein shall meet or exceed the following criteria:
 1. At doors not requiring a fire rating, provide devices complying with NFPA 101 and listed and labeled for "Panic Hardware" according to UL305. Provide proper fasteners as required by manufacturer including sex nuts and bolts at openings specified in the Hardware Sets.
 2. Where exit devices are required on fire rated doors, provide devices complying with NFPA 80 and with UL labeling indicating "Fire Exit Hardware". Provide devices with the proper fasteners for installation as tested and listed by UL. Consult manufacturer's catalog and template book for specific requirements.
 3. Except on fire rated doors, provide exit devices with hex key dogging device to hold the pushbar and latch in a retracted position. Provide optional keyed cylinder dogging on devices where specified in Hardware Sets.
 4. Devices must fit flat against the door face with no gap that permits unauthorized dogging of the push bar. The addition of filler strips is required in any case where the door light extends behind the device as in a full glass configuration.

5. Electromechanical Options: Subject to same compliance standards and requirements as mechanical exit devices, electrified devices to be of type and design as specified in hardware sets. Include any specific controllers when conventional power supplies are not sufficient to provide the proper inrush current.
 6. Lever Operating Trim: Where exit devices require lever trim, furnish manufacturer's heavy duty escutcheon trim with threaded studs for thru-bolts.
 - a. Lock Trim Design: As indicated in Hardware Sets, provide finishes and designs to match that of the specified locksets.
 - b. Where function of exit device requires a cylinder, provide a cylinder (Rim or Mortise) as specified in Hardware Sets.
 7. Vertical Rod Exit Devices: Where surface or concealed vertical rod exit devices are used at interior openings, provide as less bottom rod (LBR) unless otherwise indicated. Provide dust proof strikes where thermal pins are required to project into the floor.
 8. Narrow Stile Applications: At doors constructed with narrow stiles, or as specified in Hardware Sets, provide devices designed for maximum 2" wide stiles.
 9. Dummy Push Bar: Nonfunctioning push bar matching functional push bar.
 10. Rail Sizing: Provide exit device rails factory sized for proper door width application.
 11. Through Bolt Installation: For exit devices and trim as indicated in Door Hardware Sets.
- B. Conventional Push Rail Exit Devices (Heavy Duty): ANSI/BHMA A156.3, Grade 1 Certified Products Directory (CPD) listed panic and fire exit hardware devices furnished in the functions specified in the Hardware Sets. Exit device latch to be stainless steel, pullman type, with deadlock feature.
1. Manufacturers:
 - a. Corbin Russwin Hardware (RU) - ED4000 / ED5000 Series.
 - b. Detex (DE) – Advantex.
 - c. Sargent Manufacturing (SA) - 80 Series.

2.11 DOOR CLOSERS

- A. All door closers specified herein shall meet or exceed the following criteria:
1. General: Door closers to be from one manufacturer, matching in design and style, with the same type door preparations and templates regardless of application or spring size. Closers to be non-handed with full sized covers.
 2. Standards: Closers to comply with UL-10C for Positive Pressure Fire Test and be U.L. listed for use of fire rated doors.
 3. Size of Units: Comply with manufacturer's written recommendations for sizing of door closers depending on size of door, exposure to weather, and anticipated frequency of use. Where closers are indicated for doors required to be accessible to the Americans with Disabilities Act, provide units complying with ANSI ICC/A117.1.
 4. Closer Arms: Provide heavy duty, forged steel closer arms unless otherwise indicated in Hardware Sets.
 5. Closers shall not be installed on exterior or corridor side of doors; where possible install closers on door for optimum aesthetics.
 6. Closer Accessories: Provide door closer accessories including custom templates, special mounting brackets, spacers and drop plates as required for proper installation. Provide through-bolt and security type fasteners as specified in the hardware sets.
- B. Door Closers, Surface Mounted (Heavy Duty): ANSI/BHMA A156.4, Grade 1 Certified Products Directory (CPD) listed surface mounted, heavy duty door closers with complete spring power adjustment, sizes 1 thru 6; and fully operational adjustable according to door size, frequency of use, and opening force. Closers to be rack and pinion type, one piece cast iron or aluminum alloy body construction, with adjustable backcheck and separate non-critical valves for closing sweep and latch speed control. Provide non-handed units standard.
1. Manufacturers:
 - a. Corbin Russwin Hardware (RU) – DC6000 Series.
 - b. Norton Door Controls (NO) – 7500 Series.
 - c. Sargent Manufacturing (SA) – 351 Series.

2.12 ELECTROHYDRAULIC DOOR OPERATORS

- A. Provide low energy operators of size recommended by manufacturer of door size, weight, and movement; for condition of exposure; and for compliance with UL 325. Coordinate operator mechanisms with door operation, hinges, and activation devices. For fire rated doors, provide operators that comply with NFPA 80 for fire rated door components and are listed and labeled by a qualified testing agency.

1. Standard: Certified ANSI/BHMA A156.19.
2. Performance Requirements:
 - a. Opening Force if Power Fails: not more than 15 lbf required to release a latch if provided, not more than 30 lbf required to manually set door in motion, and not more than 15 lbf required to fully open door.
 - b. Entrapment Protection: not more than 15 lbf required to prevent stopped door from closing or opening.
3. Configuration: surface mounted or in-ground as required. Door operators to control single swinging and pair of swinging doors.
4. Operation: power opening and spring closing operation capable of meeting ANSI A117.1 accessibility guideline. Provide time delay for door to remain open before initiating closing cycle as required by ANSI/BHMA A156.19. When not in automatic mode, door operator to function as manual door closer with fully adjustable opening and closing forces, with or without electrical power.
5. Features: operator units to have full feature adjustments for door opening and closing force and speed, backcheck, motor assist acceleration from 0 to 30 seconds, time delay, vestibule interface delay, obstruction recycle, and hold open time from 0 up to 30 seconds.
6. Provide outputs and relays on board the operator to allow for coordination of exit device latch retraction, electric strikes, magnetic locks, card readers, safety and motion sensors, and specified auxiliary contacts.
7. Brackets and Reinforcements: manufacturer's standard, fabricated from aluminum with nonferrous shims for aligning system components.
8. Manufacturers:
 - a. LCN Closer (LC) – 4640 Series.
 - b. Norton Door Controls (NO) – 6000 Series.

2.12 ARCHITECTURAL TRIM

- B. Door Protective Trim
 9. General: Door protective trim units to be of type and design as specified below or in the Hardware Sets.
 10. Size: Fabricate protection plates (kick, armor, or mop) not more than 2" less than door width (LDW) on stop side of single doors and 1" LDW on stop side of pairs of doors, and not more than 1" less than door width on pull side. Coordinate and provide proper width and height as required where conflicting hardware dictates. Height to be as specified in the Hardware Sets.
 11. Where plates are applied to fire rated doors with the top of the plate more than 16" above the bottom of the door, provide plates complying with NFPA 80. Consult manufacturer's catalog and template book for specific requirements for size and applications.
 12. Protection Plates: ANSI/BHMA A156.6 certified protection plates (kick, armor, or mop), fabricated from the following:
 - a. Stainless Steel: 300 grade, 050-inch thick.
 13. Options and fasteners: Provide manufacturer's designated fastener type as specified in the Hardware Sets. Provide countersunk screw holes.
 14. Manufacturers:
 - a. Hiawatha, Inc. (HI).
 - b. Rockwood Products; ASSA ABLOY Architectural Door Accessories (RO).
 - c. Trimco (TC).

2.13 DOOR STOPS AND HOLDERS

- A. General: Door stops and holders to be of type and design as specified below or in the Hardware Sets.
- B. Door Stops and Bumpers: ANSI/BHMA A156.16, Grade 1 certified door stops and wall bumpers. Provide wall bumpers, either convex or concave types with anchorage as indicated, unless floor or other types of door stops are specified in Hardware Sets. Do not mount floor stops where they will impede traffic. Where floor or wall bumpers are not appropriate, provide overhead type stops and holders.
 1. Manufacturers:
 - a. Hiawatha, Inc. (HI).
 - b. Rockwood Products; ASSA ABLOY Architectural Door Accessories (RO).
 - c. Trimco (TC).
- C. Overhead Door Stops and Holders: ANSI/BHMA A156.8, Grade 1 Certified Products Directory (CPD) listed overhead stops and holders to be surface or concealed types as indicated in Hardware Sets. Track, slide, arm and jamb

bracket to be constructed of extruded bronze and shock absorber spring of heavy tempered steel. Provide non-handed design with mounting brackets as required for proper operation and function.

1. Manufacturers:
 - a. Rixson Door Controls (RF).
 - b. Sargent Manufacturing (SA).

2.14 ARCHITECTURAL SEALS

- A. General: Thresholds, weatherstripping, and gasket seals to be of type and design as specified below or in the Hardware Sets. Provide continuous weatherstrip gasketing on exterior doors and provide smoke, light, or sound gasketing on interior doors where indicated. At exterior applications provide non-corrosive fasteners and elsewhere where indicated.
- B. Smoke Labeled Gasketing: Assemblies complying with NFPA 105 that are listed and labeled by a testing and inspecting agency acceptable to authorities having jurisdiction, for smoke control ratings indicated, based on testing according to UL 1784.
 1. Provide smoke labeled perimeter gasketing at all smoke labeled openings.
- C. Fire Labeled Gasketing: Assemblies complying with NFPA 80 that are listed and labeled by a testing and inspecting agency acceptable to authorities having jurisdiction, for fire ratings indicated, based on testing according to UL-10C.
 1. Provide intumescent seals as indicated to meet UL10C Standard for Positive Pressure Fire Tests of Door Assemblies, and NPFA 252, Standard Methods of Fire Tests of Door Assemblies.
- D. Sound-Rated Gasketing: Assemblies that are listed and labeled by a testing and inspecting agency, for sound ratings indicated.
- E. Replaceable Seal Strips: Provide only those units where resilient or flexible seal strips are easily replaceable and readily available from stocks maintained by manufacturer.
- F. Manufacturers:
 1. National Guard Products (NG).
 2. Pemko Products; ASSA ABLOY Architectural Door Accessories (PE).
 3. Reese Enterprises, Inc. (RE).

2.15 ELECTRONIC ACCESSORIES

- A. Door Position Switches: Door position magnetic reed contact switches specifically designed for use in commercial door applications. On recessed models the contact and magnetic housing snap-lock into a 1" diameter hole. Surface mounted models include wide gap distance design complete with armored flex cabling. Provide SPDT, N/O switches with optional Rare Earth Magnet installation on steel doors with flush top channels.
 1. Manufacturers:
 - a. Securitron (SU) - DPS Series.
- B. Intelligent Switching Power Supplies: Provide power supplies with single, dual or multi-voltage configurations at 12 and/or 24VDC. Power Supply shall have battery backup function with an integrated battery charging circuit. The power supply shall have a standard, integrated Fire Alarm Interface (FAI). The power supply shall provide capability for secondary voltage, power distribution, direct lock control and network monitoring through add on modules. The power supply shall be expandable up to 16 individually protected outputs. Output modules shall provide individually protected, continuous outputs and/or individually protected, relay controlled outputs. Network modules shall provide remote monitoring functions such as status reporting, fault reporting and information logging.
 2. Manufacturers:
 - a. Securitron (SU) - AQL Series.

2.16 FABRICATION

- A. Fasteners: Provide door hardware manufactured to comply with published templates generally prepared for machine, wood, and sheet metal screws. Provide screws according to manufacturers recognized installation standards for application intended.

2.17 FINISHES

- A. Standard: Designations used in the Hardware Sets and elsewhere indicate hardware finishes complying with ANSI/BHMA A156.18, including coordination with traditional U.S. finishes indicated by certain manufacturers for their products.
- B. Provide quality of finish, including thickness of plating or coating (if any), composition, hardness, and other qualities complying with manufacturer's standards, but in no case less than specified by referenced standards for the applicable units of hardware
- C. Protect mechanical finishes on exposed surfaces from damage by applying a strippable, temporary protective covering before shipping.

PART 3 EXECUTION

3.1 EXAMINATION

- A. Examine scheduled openings, with Installer present, for compliance with requirements for installation tolerances, labeled fire door assembly construction, wall and floor construction, and other conditions affecting performance.
- B. Notify architect of any discrepancies or conflicts between the door schedule, door types, drawings and scheduled hardware. Proceed only after such discrepancies or conflicts have been resolved in writing.

3.2 PREPARATION

- A. Hollow Metal Doors and Frames: Comply with ANSI/DHI A115 series.
- B. Wood Doors: Comply with ANSI/DHI A115-W series.

3.3 INSTALLATION

- A. Install each item of mechanical and electromechanical hardware and access control equipment to comply with manufacturer's written instructions and according to specifications.
 - 1. Installers are to be trained and certified by the manufacturer on the proper installation and adjustment of fire, life safety, and security products including: hanging devices; locking devices; closing devices; and seals.
- B. Mounting Heights: Mount door hardware units at heights indicated in following applicable publications, unless specifically indicated or required to comply with governing regulations:
 - 1. Standard Steel Doors and Frames: DHI's "Recommended Locations for Architectural Hardware for Standard Steel Doors and Frames."
 - 2. Wood Doors: DHI WDHS.3, "Recommended Locations for Architectural Hardware for Wood Flush Doors."
 - 3. Where indicated to comply with accessibility requirements, comply with ANSI A117.1 "Accessibility Guidelines for Buildings and Facilities."
 - 4. Provide blocking in drywall partitions where wall stops or other wall mounted hardware is located.
- C. Retrofitting: Install door hardware to comply with manufacturer's published templates and written instructions. Where cutting and fitting are required to install door hardware onto or into surfaces that are later to be painted or finished in another way, coordinate removal, storage, and reinstallation of surface protective trim units with finishing work specified in Division 9 Sections. Do not install surface-mounted items until finishes have been completed on substrates involved.
- D. Thresholds: Set thresholds for exterior and acoustical doors in full bed of sealant complying with requirements specified in Division 7 Section "Joint Sealants."
- E. Storage: Provide a secure lock up for hardware delivered to the project but not yet installed. Control the handling and installation of hardware items so that the completion of the work will not be delayed by hardware losses before and after installation.

3.4 FIELD QUALITY CONTROL

- A. Field Inspection (Punch Report): Reference Division 01 Sections "Closeout Procedures" and "Cash Allowances". Produce project punch report for each installed door opening indicating compliance with approved submittals and verification hardware is properly installed, operating and adjusted. Include list of items to be completed and corrected, indicating the reasons or deficiencies causing the Work to be incomplete or rejected.
 - 1. Organization of List: Include separate Door Opening and Deficiencies and Corrective Action Lists organized by Mark, Opening Remarks and Comments, and related Opening Images and Video Recordings.
 - 2. Submit documentation of incomplete items in the following formats:

- a. PDF electronic file.
- b. Electronic formatted file integrated with the Openings Studio™ door opening management software platform.

3.5 ADJUSTING

- A. Initial Adjustment: Adjust and check each operating item of door hardware and each door to ensure proper operation or function of every unit. Replace units that cannot be adjusted to operate as intended. Adjust door control devices to compensate for final operation of heating and ventilating equipment and to comply with referenced accessibility requirements.

3.6 CLEANING AND PROTECTION

- A. Protect all hardware stored on construction site in a covered and dry place. Protect exposed hardware installed on doors during the construction phase. Install any and all hardware at the latest possible time frame.
- B. Clean adjacent surfaces soiled by door hardware installation.
- C. Clean operating items as necessary to restore proper finish. Provide final protection and maintain conditions that ensure door hardware is without damage or deterioration at time of owner occupancy.

3.7 DEMONSTRATION

- A. Instruct Owner's maintenance personnel to adjust, operate, and maintain mechanical and electromechanical door hardware.

3.8 DOOR HARDWARE SETS

- A. The hardware sets represent the design intent and direction of the owner and architect. They are a guideline only and should not be considered a detailed hardware schedule. Discrepancies, conflicting hardware and missing items should be brought to the attention of the architect with corrections made prior to the bidding process. Omitted items not included in a hardware set should be scheduled with the appropriate additional hardware required for proper application and functionality.
 - 1. Quantities listed are for each pair of doors, or for each single door.
 - 2. The supplier is responsible for handing and sizing all products.
 - 3. Where multiple options for a piece of hardware are given in a single line item, the supplier shall provide the appropriate application for the opening.
 - 4. At existing openings with new hardware the supplier shall field inspect existing conditions prior to the submittal stage to verify the specified hardware will work as required. Provide alternate solutions and proposals as needed.
- B. Manufacturer's Abbreviations:
 - 1. MK - McKinney
 - 2. RO - Rockwood
 - 3. SA - SARGENT
 - 4. BE - dormakaba Best
 - 5. HS - HES
 - 6. RF - Rixson
 - 7. NO - Norton
 - 8. PE - Pemko
 - 9. HD - HID
 - 10. SU - Securitron
 - 11. OT - Other

HARDWARE SETS

Set: 1.0

3 Hinge (heavy weight)	T4A3386 (NRP)	US32D	MK
1 Rim Exit (storeroom lvr)	LC 43 8804 ETL	US32D	SA
1 Cylinder	Rim / Mortise (as req'd)	626	BE

1	Electric Strike	9600-LBM	630	HS
1	SMART Pac Bridge Rectifier	2005M3		HS
1	Surf Overhead Stop	9-X36 (5458)	630	RF
1	Closer - Top Jamb	J7500	689	NO
1	Kick Plate	K1050 10" 4BE CSK	US32D	RO
1	Threshold - 6" T-Break	253x3AFG		PE
1	Gasketing	2891AS (head)		PE
2	Gasketing	290AS (jambs)		PE
1	Rain Guard	346C (frame width)		PE
1	Sweep x Drip	3452CNB x dr width		PE
1	E-Lynx Harness (Jamb)	QC-C1500P		MK
1	Card Reader	By Security Contractor	BLK	HD
1	Door Position Switch	DPS-M / W-GY (as req'd)		SU

Notes:

Install gasketing at head before installing closer(s).
Install gasketing at jambs before installing rim device strike.

Door normally closed and locked.

Valid card read unlocks electric strike for entry.

Key override available.

Free egress at all times.

Set: 2.0

3	Hinge (heavy weight)	T4A3386 (NRP)	US32D	MK
1	Rim Exit (storeroom)	LC 43 8804 Less Pull	US32D	SA
1	Cylinder	Rim / Mortise (as req'd)	626	BE
1	Electric Strike	9600-LBM	630	HS
1	SMART Pac Bridge Rectifier	2005M3		HS
1	Offset Pull	RM201	US32D	RO
1	Surf Overhead Stop	9-X36 (5458)	630	RF
1	Closer - Top Jamb	J7500	689	NO
1	Kick Plate	K1050 10" 4BE CSK	US32D	RO
1	Threshold - 6" T-Break	253x3AFG		PE
1	Gasketing	2891AS (head)		PE
2	Gasketing	290AS (jambs)		PE
1	Rain Guard	346C (frame width)		PE
1	Sweep x Drip	3452CNB x dr width		PE
1	E-Lynx Harness (Jamb)	QC-C1500P		MK
1	Card Reader	By Security Contractor	BLK	HD
1	Door Position Switch	DPS-M / W-GY (as req'd)		SU

Notes:

Install gasketing at head before installing closer(s).
Install gasketing at jambs before installing rim device strike.

Door normally closed and locked.

Valid card read unlocks electric strike for entry.

Key override available.

Free egress at all times.

Set: 3.0

3	Hinge (heavy weight)	T4A3786 (NRP)	US26D	MK
1	Rim Exit (storeroom)	LC 43 8804 Less Pull	US32D	SA
1	Cylinder	Rim / Mortise (as req'd)	626	BE
1	Electric Strike	9600-LBM	630	HS

1	SMART Pac Bridge Rectifier	2005M3		HS
1	Offset Pull	RM201	US32D	RO
1	Surf Overhead Stop	9-X36 (5458)	630	RF
1	Closer - Top Jamb	J7500	689	NO
1	Kick Plate	K1050 10" 4BE CSK	US32D	RO
1	E-Lynx Harness (Jamb)	QC-C1500P		MK
1	Door Position Switch	DPS-M / W-GY (as req'd)		SU

Notes:

Install electric strike now, for possible use in the future.

Exit device can be dogged, so door acts as push/pull, until Owner decides whether to secure door with card reader.

Door normally closed and locked.

Valid card read unlocks electric strike for entry.

Key override available.

Free egress at all times.

Set: 4.0

3	Hinge (heavy weight)	T4A3386 (NRP)	US32D	MK
1	Rim Exit (passage, ELR)	12 43 56 8815 ETL	US32D	SA
1	Automatic Opener	6061	689	NO
1	Kick Plate	K1050 10" 4BE CSK	US32D	RO
1	Wall Stop	402 / 405 (as req'd)	US26D	RO
1	Threshold - 1/4" Saddle	271A		PE
1	Perimeter Gasketing	S88BL (head & jambs)		PE
1	Sweep	315CN		PE
1	E-Lynx Harness (Jamb)	QC-C1500P		MK
1	E-Lynx Harness (Door)	QC-C*** (length / type as req'd)		MK
1	Electric Power Transfer	EL-CEPT		SU
2	Actuator Button	534		NO
1	Power Distribution Board	AQL4-R8E1		SU

Notes:

Door normally closed, latch held retracted electrically.

Either actuator button opens door automatically.

Exit device tied to fire alarm system. Exit device latches on fire alarm or loss of power to the device.

Free access from either direction at all times.

Set: 5.0

3	Hinge	TA2314 (NRP)	US32D	MK
1	Rim Exit (passage)	12 43 8815 ETL	US32D	SA
1	Closer	PR7500 / Reg 7500 (as req'd)	689	NO
1	Kick Plate	K1050 10" 4BE CSK	US32D	RO
1	Wall Stop	402 / 405 (as req'd)	US26D	RO
1	Perimeter Gasketing	S88BL (head & jambs)		PE

Set: 6.0

3	Hinge (heavy weight)	T4A3786 (NRP)	US26D	MK
1	Storeroom Lock	9K37D 15C	626	BE
1	Electric Strike	1006CS	630	HS
1	Closer	PR7500 / Reg 7500 (as req'd)	689	NO
1	Kick Plate	K1050 10" 4BE CSK	US32D	RO
1	Wall Stop	402 / 405 (as req'd)	US26D	RO
1	E-Lynx Harness (Jamb)	QC-C1500P		MK

1 Card Reader	By Security Contractor	BLK	HD
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Notes:

Door normally closed and locked.
 Valid card read unlocks electric strike for entry.
 Key override available.
 Free egress at all times.

Set: 7.0

2 Hinge (heavy weight)	T4A3786 (NRP)	US26D	MK
1 Hinge x ETW (heavy weight)	T4A3786-QC_	US26D	MK
1 Rim Exit (elec lvr, fail safe, rated)	12 43 8875 ETL	US32D	SA
1 Cylinder	Rim / Mortise (as req'd)	626	BE
1 Closer	PR7500 / Reg 7500 (as req'd)	689	NO
1 Kick Plate	K1050 10" 4BE CSK	US32D	RO
1 Wall Stop	402 / 405 (as req'd)	US26D	RO
1 Perimeter Gasketing	S88BL (head & jambs)		PE
1 E-Lynx Harness (Jamb)	QC-C1500P		MK
1 E-Lynx Harness (Door)	QC-C*** (length / type as req'd)		MK
1 Card Reader	By Security Contractor	BLK	HD
1 Power Distribution Board	AQL4-R8E1		SU

Notes:

Door normally closed and locked by power.
 Valid card read unlocks outside lever for entry. Key override available.
 Exit device tied to fire alarm, unlocks on fire alarm or loss of power to the door, but remains latched.
 Free egress at all times.

Set: 8.0

3 Hinge	TA2714 (NRP)	US26D	MK
1 Storeroom Lock	9K37D 15C	626	BE
1 Wall Stop	402 / 405 (as req'd)	US26D	RO

Set: 9.0

6 Hinge	TA2714 (NRP)	US26D	MK
1 Manual Flush Bolt	555/557 (as req'd)	US26D	RO
1 Storeroom Lock	9K37D 15C	626	BE
2 Surf Overhead Hold Open	10-326	630	RF

Set: 10.0

3 Hinge	TA2714 (NRP)	US26D	MK
1 Storeroom Lock	9K37D 15C	626	BE
1 Closer	PR7500 / Reg 7500 (as req'd)	689	NO
1 Kick Plate	K1050 10" 4BE CSK	US32D	RO
1 Wall Stop	402 / 405 (as req'd)	US26D	RO

Set: 11.0

3 Hinge	TA2714 (NRP)	US26D	MK
1 Storeroom Lock	9K37D 15C	626	BE
1 Surf Overhead Stop	10-X36 (5258)	630	RF

Set: 12.0

1	Storeroom Lock	9K37D 15C	626	BE
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Notes:

Re-use balance of existing hardware.

Field verify compatibility of new hardware with existing door and frame.

Set: 13.0

3	Hinge	TA2714 (NRP)	US26D	MK
1	Classroom Lock	9K37R 15C	626	BE
1	Wall Stop	402 / 405 (as req'd)	US26D	RO

Set: 14.0

3	Hinge	TA2714 (NRP)	US26D	MK
1	Entrance Lock	9K37AB 15C	626	BE
1	Closer	PR7500 / Reg 7500 (as req'd)	689	NO
1	Kick Plate	K1050 10" 4BE CSK	US32D	RO
1	Wall Stop	402 / 405 (as req'd)	US26D	RO

Set: 15.0

3	Hinge	TA2714 (NRP)	US26D	MK
1	Entrance Lock	9K37AB 15C	626	BE
1	Surf Overhead Stop	10-X36 (5258)	630	RF

Set: 16.0

3	Hinge	TA2714 (NRP)	US26D	MK
1	Entrance Lock	9K37AB 15C	626	BE
1	Wall Stop	402 / 405 (as req'd)	US26D	RO

Set: 17.0

3	Hinge	TA2714 (NRP)	US26D	MK
1	Entrance Lock	9K37AB 15C	626	BE
1	Wall Stop	402 / 405 (as req'd)	US26D	RO
1	Sound Seals	S773BL (head & jambs)		PE
1	Door Bottom	STC411APK36		PE

Set: 18.0

3	Hinge	TA2314 (NRP)	US32D	MK
1	Privacy Mortise Lock (OCC/VAC)	45HOLT 15H VIN VIT	626	BE
1	Closer x Stop/HO	CLP7500T	689	NO
1	Kick Plate	K1050 10" 4BE CSK	US32D	RO

Notes:

Lever to be at same height as cylindrical locks.

Set: 19.0

3	Hinge	TA2714 (NRP)	US26D	MK
1	Passage Latch	9K30N 15C	626	BE
1	Closer x Stop/HO	CLP7500T	689	NO
1	Kick Plate	K1050 10" 4BE CSK	US32D	RO

Set: 20.0

3 Hinge	TA2714 (NRP)	US26D	MK
1 Passage Latch	9K30N 15C	626	BE
1 Wall Stop	402 / 405 (as req'd)	US26D	RO

Set: 21.0

3 Hinge	TA2714 (NRP)	US26D	MK
1 Push Bar x Offset Pull	RM251	US32D	RO
1 Closer	PR7500 / Reg 7500 (as req'd)	689	NO
1 Wall Stop	402 / 405 (as req'd)	US26D	RO

Set: 22.0

3 Hinge	TA2314 (NRP)	US32D	MK
1 Pull Plate	126x70C	US32D	RO
1 Push Plate	70E	US32D	RO
1 Closer	PR7500 / Reg 7500 (as req'd)	689	NO
1 Kick Plate	K1050 10" 4BE CSK	US32D	RO
1 Mop Plate	K1050 4" 4BE CSK	US32D	RO
1 Door Stop & Keeper	477	US26D	RO

Set: 23.0

3 Hinge	TA2714 (NRP)	US26D	MK
1 Pull Plate	126x70C	US32D	RO
1 Push Plate	70E	US32D	RO
1 Automatic Opener	6061	689	NO
1 Kick Plate	K1050 10" 4BE CSK	US32D	RO
1 Wall Stop	402 / 405 (as req'd)	US26D	RO
2 Actuator Button	534		NO ↗

Notes:

Either actuator button opens door automatically.

Set: 24.0

1 All Hardware	By Door Manufacturer		OT
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SECTION 10 51 13
METAL LOCKERS

PART 1 GENERAL

1.1 SECTION INCLUDES

- A. Personal storage lockers with built-in bench drawers and interior accessories.
- B. Secured weapons storage locker unit.

1.2 RELATED REQUIREMENTS

- A. Section 06 10 00 - Rough Carpentry: Wood base construction.
- B. Section 06 10 00 - Rough Carpentry: Wood blocking and nailers.
- C. Section 06 20 00 - Finish Carpentry: Bench tops for locker bench support brackets.
- D. Section 26

1.3 REFERENCE STANDARDS

- A. ASTM A653/A653M - Standard Specification for Steel Sheet, Zinc-Coated (Galvanized) or Zinc-Iron Alloy-Coated (Galvannealed) by the Hot-Dip Process; 2019a.

1.4 SUBMITTALS

- A. See Section 01 00 00 - General Requirements, for submittal procedures.
- B. Product Data: Submit manufacturer's product literature and installation instructions for each type of welded metal locker required. Include data substantiating that products to be furnished comply with requirements of the contract documents.
- C. Shop Drawings:
 - 1. Show fabrication, assembly, and installation details, including descriptions of procedures and diagrams.
 - 2. Show complete locker installation layout, including quantities, locations and types of accessory units required. Include notations and descriptions of all installation items and components.
 - 3. Show installation details at non-standard conditions, if any.
 - 4. Provide layout, dimensions, and identification of each unit, corresponding to sequence of installation procedures.
 - 5. Provide installation schedule and procedures to ensure proper installation.
- D. Samples: Provide minimum [3] inches or [76] millimeters square example of each color and texture on actual substrate for each component to remain exposed after installation.
- E. Maintenance Data: Provide written documentation of the manufacturer's statement, claiming the maintenance free nature of the product.

1.5 DELIVERY, STORAGE, AND HANDLING

- A. Follow manufacturer's instructions and recommendations for delivery, storage and handling requirements.

1.6 PROJECT CONDITIONS

- A. Field Measurements: Verify quantities of welded metal locker units before fabrication. Indicate verified measurements on shop drawings. Coordinate fabrication and delivery to ensure no delay in progress of the work.
- B. Established Dimensions: Where field measurements cannot be made without delaying the Work, establish dimensions and proceed with fabricating welded metal lockers units without field measurements. Coordinate construction to ensure actual dimensions correspond to established dimensions.
- C. Pre-installation Conference: Schedule and conduct conference on project site between installer and contractor to review methods and procedures for installing welded Metal Lockers.

PART 2 PRODUCTS

2.1 METAL LOCKERS

- A. Basis of Design: FreeStyle™ Personal Storage Lockers manufactured by Spacesaver Corporation; www.spacesaver.com/products/locker-storage/freestyle-personal-storage-locker/.
1. Type: Personal storage lockers with built-in bench drawers with intermediate base shelf with interlocking mechanism for securing drawer when locker door is closed
 2. All lockers to be equipped with modular electrical system as required.
 3. Size: Tiered locker size, including built-in bench-drawer shall be standard sizes as follows:
 - a. Height: 84".
 - b. Width: 24".
 - c. Depth at Bench Drawer: 36".
 - d. Depth at Locker: 24" deep.
- C. Materials and Features:
1. Provide materials and quality of workmanship, which meets or exceeds established industry standards for products specified. Use furniture grade sheet metal, solid hardwood benches and fasteners for component fabrication.
 2. Lockers to be flat-top, to fit under wood-framed and drywalled bulkhead above as constructed by General Contractor.
 3. Fabricated Metal Components and Assemblies: All components to be painted with an electro-statically applied Powder Coat paint that can meet or exceed test requirements set out by ASTM standard D3451-06 Standard Guide for Testing Coating Powders and Powder Coatings.
 4. Where ends or sides are exposed, provide flush panel closures.
 5. Color: elected by Architect from manufacturer's standard colors.
- D. Electrical:
1. UL listed manufactured electrical wiring system with plug-in-play component design.
 2. Receptacles – standard 20 amp duplex receptacles and 20 amp GFCI duplex receptacles
- E. Built-in Bench Drawer:
1. Provide manufacturer's standard built-in bench drawer with nominal 36 inch depth.
 2. Provide interlock system for securing drawer when main locker doors are closed and provide access only when main locker door/s is opened.
 3. Minimum bench drawer 26.5 inch drawer extension.
 4. Provide a flush mounted pull handle.
 5. Drawer Slides: Provide 200 lbs maximum load capacity and pass 50,000 cycle performance testing.
- F. Bench Seat:
1. Laminated kiln dried maple bench seat, 13.0 inch deep; 1.25 inches thick.
 2. Front (leading edge) of bench seat to have 0.625 inch radius bull nose.
 3. Finish shall be sanded smooth and have two (2) coats of catalyzed varnish applied.
- G. Locker Doors:
1. Doors to be welded from two (2) pieces of minimum 18-gauge cold rolled steel box formed and welded together using modern GMAW techniques. Single-piece door with inner and outer door panels shall have a combined steel thickness of no less than 0.096 inches thick. Welded door design with inner panel optimizes structural integrity of locker door system over and above any single frame door design.
 2. Exterior door panel shall be constructed with formed flanges and return flanges to add stiffness.
 3. Inner door panel shall be constructed with formed flanges for added stiffness, and 70% of external door panel height.
 4. Provide standard louvered air vents for natural ventilation.
 5. Provide louvered air vents in drawer front when built-in bench drawer for natural ventilation.
 6. All doors shall have neoprene silencers on each door for noise reduction.
 7. Hinge: 16-gauge full length hinge spot welded to door frame at 6 inch intervals.
 8. Locking Mechanism: Provide hasp for padlock by Owner.
 9. Locker Tag Numbers: Provide locker numbers on each locker per customer requirement.
- H. Interior Accessories:

1. All interior components to be constructed of minimum 18-gauge steel and secured utilizing blind rivets, threaded fasteners, or bending specially designed tab.
2. Provide per each locker:
 - a. Two (2) full-width heavy-duty shelves.
 - b. One (1) hanger-bar assembly kit.
 - c. One (1) Inside body armor drying rack.

2.2 SECURED WEAPONS STORAGE CABINETS

- A. Basis of Design: Free standing Secured Weapons Storage Cabinet, model number UWRC4284 as manufactured by Spacesaver Corporation; www.spacesaver.com/products/weapons-storage/floor-mounted-gun-lockers/
- B. Type: Secured weapons storage cabinet to be installed floor mounted with anti-tipping wall attachment.
- C. Description: Cabinet shall be a one-piece assembly with outside nominal dimensions of 42 inches wide by 84 inches high by 16.25" deep.
 1. Cabinet Construction: 18-gauge double-walled upright posts welded to 18-gauge flat plate steel sidewalls and back walls with diamond mesh perforations.
 2. Top and bottom covers shall be made of 16-gauge steel welded to the upright posts.
 3. Cabinet doors shall be heavy-duty 18-gauge, folding and fully retractable in the open position. The cabinet doors shall also include a diamond mesh perforation for visibility as well as rotating locking bars for security.
 4. Locking bars shall lock at a single common point.
 5. Base:: 16-gauge steel with standard universal stock cups.
 6. Finish: shall be factory applied electrostatic powder coat paint, selected by Architect from manufacturer's standard colors..
- D. Weapons Rack Support: Provide manufacturer's standard support rails, back panel kit with individual stock and barrel supports

PART 3 EXECUTION

3.1 INSTALLATION

- A. Install following manufacturer's written instructions for installation of each type of locker and accessory item specified.
- B. Remove any components that are chipped, scratched, or otherwise damaged and which do not match adjoining work. Replace with new matching units, installed as specified and in manner to eliminate evidence of replacement.
- C. Verify accessory unit alignment and plumb after installation. Correct if required, following manufacturer's instructions.
- D. Adjust all accessories to provide smoothly operating, visually acceptable installation.
- E. Schedule and conduct user demonstration maintenance training with Owner's maintenance personnel. Training session should include lecture and demonstration of all maintenance and repair procedures that end-user personnel would normally perform.

3.2 CLEANING

- A. Clean locker interiors and exterior surfaces.

END OF SECTION

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SECTION 22 14 29
SUMP PUMPS

PART 1 - GENERAL

1.1 RELATED WORK

- A. The requirements of Division 00 – Procurement, Contracting and Warranty Requirements, Division 01 - General Requirements and Section 22 00 10 - Plumbing General Provisions are applicable to work required of this section.

1.2 DESCRIPTION OF WORK

- A. Extent of plumbing equipment work is indicated on drawings and provisions of this section, including schedules and equipment lists associated with either drawings or this section.
- B. Types of plumbing equipment required for project include the following:
 - 1. Sump Pumps

1.3 QUALITY ASSURANCE

- A. UL and NEMA Compliance: Provide electric motors and electrical components required as part of plumbing equipment, which have been listed and labeled by Underwriters Laboratories and comply with NEMA standards.
- B. NEC Compliance: Comply with National Electrical Code (ANSI/NFPA 70) as applicable to installation and electrical connections of ancillary electrical components of plumbing equipment.

1.4 SUBMITTALS

- A. Product Data: Submit manufacturer's plumbing equipment specifications, installation and start-up instructions, and capacity and ratings, with selection points clearly marked.
- B. Shop Drawings: Submit assembly type shop drawings indicating dimensions, weights, required clearances, and methods of assembly of all components.

PART 2 - PRODUCTS

2.1 ACCEPTABLE MANUFACTURERS

- A. Vertical Shaft Sump Pumps
 - 1. Weil Pump Co.
 - 2. Myers Pumps, Inc.
 - 3. Zoeller
 - 4. Stancor Pumps
 - 5. Aurora/Hydromatic Pumps, Inc.
- B. Downspout Nozzles
 - 1. Jay R. Smith
 - 2. Josam
 - 3. Wade
 - 4. Zurn
 - 5. Watts

2.2 SUMP PUMPS

A. Vertical Shaft Sump Pumps

1. General: Provide vertical shaft sump pumps as indicated, of size and capacity as scheduled.
2. Pump: Cast-iron shell, cast iron impeller, stainless steel shaft, factory sealed grease lubricated ball bearings, ceramic mechanical seal, and stainless steel strainer.
3. Motor: Vertical solid shaft with electrical characteristics as scheduled.
4. Controls: Provide as scheduled.

2.3 PIPE:

	<u>Material</u>	<u>Service</u>
A.	Polyvinyl Chloride Pipe (PVC) Schedule 40 DWV, ASTM D1785 and ASTM D2665.	Sump pump inlet and discharge lines.

2.4 FITTINGS:

- A. PVC DWV pipe fittings: ASTM D2665 DWV Schedule 40 socket type. Provide fittings produced and recommended for the service indicated by manufacturer of piping.

2.5 JOINTS

- A. PVC DWV pipe: Solvent cement in accordance with ASTM D2564.

PART 3 - EXECUTION

3.1 INSTALLATION OF SUMP PUMPS

A. Sump Pumps

1. General: Install submersible sump pumps as indicated, in accordance with manufacturer's installation instructions, and in compliance with applicable code.
2. Pump: Set pump in sump. Connect discharge piping with check valve and union.
3. Electrical: Plug pump cord into electrical receptacle. Refer to Division 26 for power wiring; not work of this section.

3.2 INSTALLATION OF BASIC MATERIALS AND PRODUCTS

- A. General: Install basic materials and products as per manufacturers' recommendations, Uniform and International Plumbing Codes, local code requirements and as required to meet system pressure and performance requirements.

B. Valves

1. Refer to Section 22 05 23 - General Duty Valves for Plumbing Piping.
2. Locate valves for easy access and operation. Do not locate valves with stems below horizontal.
3. Shutoff Valves: Install where indicated.
4. Check Valves: Install on discharge side of each pump, and elsewhere as indicated.

- C. Piping Specialties: Refer to Section 22 05 00 - Common Work Results for Plumbing.

- D. Supports, Anchors and Seals: Refer to Section 22 05 29 – Hangers and Supports for Plumbing Piping and Equipment.

3.3 SUMP PUMP PIPING

- A. Install pipe as indicated on drawings, as called for in other sections, and as specified herein.
- B. Arrange and install piping approximately as indicated; straight, plumb, and as direct as possible; form right angles on parallel lines with building walls. Keep pipes close to walls and avoid interference with other trades. Locate groups of pipes parallel to each other; space at a distance to permit applying full insulation and to permit access for servicing valves. Most piping to be run in concealed locations unless indicated exposed, or in equipment rooms. Locate piping to avoid ductwork.
- C. Install horizontal piping as high as possible without sags or humps so that proper grades can be maintained for drainage.
- D. Check all piping for interference with other trades; avoid placing water pipes over electrical equipment.
- E. Pipes built into masonry or concrete construction shall be wrapped with tar paper or burlap to prevent bonding to the concrete.
- F. No pipe shall be located in an outside wall or other location where freezing is likely to occur.
- G. No pipe shall be in contact with, or attached to, a structural member in a manner that causes the transmission of noise to the structure. Block ends of runs to prevent movement due to water hammer.
- H. Install storm water piping pitched to drain at minimum slope of 1/4" per foot (2%) for piping 3" and smaller and 1/8" per foot (1%) for piping 4" and larger.

3.4 TESTING

- A. General: New sump pump discharge piping shall be tested and proved tight under a static pressure of 1.5x pump discharge head. The pressure shall be maintained for (4) four hours.

END OF SECTION 22 14 29

SECTION 32 92 00
TREES, SHRUBS, AND OTHER PLANTINGS

PART 1 GENERAL

1.1 SCOPE

- A. These specifications, along with contract drawings and lists of plant materials, apply to those items necessary for and incidental to the preparation, execution, completion and maintenance of the landscape planting activities (excluding lawn areas) specified in the contract. The scope includes the planting of trees, shrubs, perennials, and grasses, and the maintenance activities of fertilizing, pruning and watering.

1.2 RELATED WORK

- A. Applicable provisions of Division 1 govern work under this Section.
- B. Section 02 20 00 – General Sitework Requirements
- C. Section 31 10 00 – Site Clearing
- D. Section 31 13 16 – Tree Protection
- E. Section 31 20 00 – Earthmoving
- F. Section 31 25 00 – Erosion Control
- G. Section 32 91 19 – Topsoil-Select Fill Materials and Application
- H. Section 32 92 19 – Seeding and Sodding

1.3 REFERENCE STANDARDS

- A. *American Standards for Nursery Stock, ANSI Z60.1*, current edition. American Association of Nurserymen, Inc.
- B. *Standardized Plant Names, Second Edition (1942)*. American Joint Committee on Horticulture Nomenclature, Horace McFarland Company, Harrisburg, PA.
- C. *American National Standard for Tree Care Operations - Tree, Shrub and Other Woody Plant Maintenance-Standard Practices, ANSI A300*, current edition.
- D. Where reference is made to the "Geotechnical Report", it shall be construed to mean the geotechnical report in Section 02 32 00.

1.4 QUALITY ASSURANCE

- A. All plant material shall conform to the *American Standards for Nursery Stock*, unless noted otherwise herein.
- B. All plant material shall be true to the species and variety/hybrid/cultivar specified, and nursery-grown in accordance with good horticultural practices, and under climatic conditions similar to those of the site location. Specimens' nursery-dug to be replanted shall have been freshly dug and properly prepared for planting.
- C. Trees and Shrubs:
 - 1. Shall be trained in development and appearance as to be superior in form, compactness and symmetry. Trees with multiple leaders, unless specified otherwise, and shrubs with damaged or cut mainstem(s), will be rejected.
 - 2. With a damaged, cut or crooked leader, abrasion of bark, sunscald, frost crack, disfiguring knots, insects (including eggs and larvae) or insect damage, cankers/cankerosus lesions or fungal mats, mold, prematurely-opened buds, or cuts of limbs over 3/4 inches (1.9 cm) in diameter that are not completely callused will be rejected.
 - 3. Shall have healthy, well-developed root systems, and be free from physical damage or other hindrances to healthy growth.
 - 4. Balled and burlapped plants shall be dug with solid balls of a diameter not less than that recommended by the *American Standards for Nursery Stock*, and of sufficient depth to include both fibrous and feeding roots. Balls shall be securely wrapped with burlap, and tightly bound with rope or twine. No plant shall be bound with rope or wire in such manner as to damage bark or break branches. The root flare should be within the top 2 inches (5.1 cm) of the soil ball. Balled and burlapped plants will not be accepted if the ball is dry, cracked, or broken before or during planting.

5. Containerized plants are to be well-established within the container, with a root system sufficiently developed to retain its shape and hold together when removed from the container. Soil within the container should be held together by the roots, in form and whole. Plants shall not be pot-bound, nor have kinked, circling, or bent roots.
- D. Herbaceous perennials and grasses shall only be supplied from nurseries certified by state plant inspectors.

1.5 MEASUREMENT

- A. Plants shall conform to the measurements specified within the contract documents. Specified height and spread dimensions will refer to the main body of the plant, and not from branch tip to branch tip. Plants meeting a specified measurement, but judged to lack the balance between height and spread characteristic of the species will be rejected.
- B. Plants shall be measured when branches are in their normal position.
- C. No plant shall be less than the minimum size specified, and no less than 50% of the plants shall be as large as the maximum size specified.
- D. Caliper measurements shall be taken 54 inches (1.4 m) above ground level
- E. Containerized shrubs shall be measured by height and width for conformity with the plant list
- F. Herbaceous perennials and grasses shall be measured by pot size, not by top growth
- G. All other measurements, such as number of canes, ball sizes, and quality designations, shall conform to *American Standards for Nursery Stock*.

1.6 SUBSTITUTIONS

- A. The substitution of plant materials is not permitted unless authorized, in writing, by the Owner's Representative. If written proof is submitted by the Contractor that a plant of specified species, variety or size is unavailable, consideration will be given towards the nearest available size or variety, or towards an alternate species selection, with a corresponding adjustment of the contract price.

1.7 DELIVERY, STORAGE, AND HANDLING

- A. The Contractor is to arrange for the acceptance and unloading of plants at the project site.
- B. All plants are to be labeled by plant name and size. Labels shall be attached securely to all plants, bundles, and containers of plant materials when delivered. Labels shall be durable and legible, with information given in weather-resistant ink or embossed process lettering. The Owner should verify all plant labels, upon approval the plant labels shall be removed by the Contractor.
- C. All plant materials, shipments and deliveries shall comply with current state and federal laws and regulations governing the inspection, shipping, selling and handling of plant stock. If required by law or regulation, a certificate of inspection, or a copy thereof, for injurious insects, plant diseases, and other plant pests shall accompany each shipment or delivery of plant material. The certificate shall bear the name(s) and address(es) of the source of the plant stock.
- D. During transport, no plant shall be bound with rope or wire in a manner that damages trunks or breaks branches. Plants shall also not be dragged, lifted or pulled by the trunk, branches or foliage in a damaging way. No plant shall be thrown off of a truck or loader to the ground.
- E. Prior to installation, all plants must be protected from sun and drying winds.
- F. Containerized or balled and burlapped plants not being installed immediately must be kept in a shaded area, well-covered with wood chips, soil, or other approved material, and kept well-watered. Install all plants within three (3) days of delivery.
- G. Fertilizer shall be delivered to the site in original, sealed containers, and stored in a waterproof space. Containers shall bear the manufacturer's name, analysis, trademark and guarantee as per standards of the Wisconsin Department of Agriculture.
- H. Contractor shall protect all plants, lawns, and grass from damage at all times. Damaged plants, lawns or grass areas shall be replaced or treated as required to conform to specifications herein for fresh stock. Damage incurred as a result of replacement or installation operations shall be repaired by Contractor at no cost to Owner.

1.8 PLANTING SCHEDULE

- A. Plants shall be installed as appropriate for that specific plant species to ensure healthy vigorous growth.
- B. All plants shall be guaranteed to be in healthy and flourishing condition for one full year after installation and acceptance by the Owner.
- C. Plants not thriving shall be replaced at no cost to the Owner. The contractor may suggest substitutions for replacement plants.
- D. Replacement plants shall be guaranteed for one year after installation.
- E. At any time during the guarantee period, the Contractor shall remove or replace, without cost to the Owner and within a specified planting period, all plants not in a healthy and flourish conditions as determined by the Owner.

1.9 MAINTENANCE

- A. The Contractor shall maintain plantings and lawn for at least a period of 60 days, or until final acceptance from the Owner. The Contractor is responsible for adequately watering plants and lawn during this 60 day period.
- B. Fertilizing: Any and all chemical applications are to be performed in accordance with current federal, state and local laws, through EPA-registered materials and application techniques, and performed under the supervision of a licensed certified applicator. Apply fertilizer to planted areas at the specified rate, and as per manufacturer's recommendations.
- C. Watering: All plant materials installed under the contract shall be watered within the first 24 hours of initial planting and not less than twice weekly until final acceptance by the Owner. Water used shall be of sufficient quality for irrigation and free of materials harmful to plant growth.
- D. Pesticide: Any use of pesticides during the contracted maintenance period, as determined by the Owner, shall utilize the minimum amount of approved pesticide needed to control pests on plant materials installed under the contract. Pesticide applications are to be performed in accordance with current federal, state and local laws, through EPA-registered materials and application techniques, and performed under the supervision of a licensed certified applicator. Apply at the specified rate, and as per manufacturer's recommendations.

PART 2 PRODUCTS

2.1 MATERIALS

- A. Plant Materials: A complete list of plant materials, including a schedule of quantities, sizes, and other requirements, shall be included in the contract documents. If discrepancies occur between the printed plant list, and the contract drawings, the printed list will take precedent.
- B. Topsoil: Naturally fertile, agricultural soil, capable of sustaining vigorous growth, of uniform composition throughout, without admixtures of subsoil, free of clay, stones larger than 1 inch (2.5 cm) in diameter, roots, trash and debris of any kind, supplied by Contractor at his/her expense, and subject to approval by the Owner's Construction Representative.
- C. Planting Mixture: Material used in tamping around balls and roots during the planting operation shall be prepared on site by mixing two (2) parts topsoil, one (1) part sand and one (1) part compost. All mixing shall be done by mechanical means subject to the approval of the Owner's Construction Representative.
- D. Fertilizer: Granular, non-burning product composed of not less than 50% organic slow-acting, guaranteed analysis professional fertilizer. Commercial fertilizer shall conform to Wisconsin State Statutes, Section 94.64, and meet the standards of the Wisconsin Department of Agriculture as to registration and labeling. Fertilizer shall be specified in the contract documents as to composition, but is subject to revision to suit project site conditions.
- E. Shredded Hardwood Bark Mulch: Shredded hardwood bark mulch, free of material detrimental to healthy plant growth. Mulch shall be finely shredded, weed free, dye-free mulch
- F. Stone Mulch: All planting areas labeled on plan shall receive Midwest Decorative Stone 1½-inch "American Heritage" stone mulch (or approved equal) spread to a minimum and consistent depth of 3 inches. Stone mulch areas shall receive woven weed barrier fabric.

PART 3 EXECUTION

3.1 INSPECTION

- A. Topsoil: Refer to Topsoil-Select Fill Materials and Application Section specifications.
- B. Verify that prepared soil base is ready to receive the work of this Section.
- C. Beginning of installation means acceptance of existing site conditions.

3.2 PREPARATION OF SUBSOIL

- A. Prepare subsoil to eliminate uneven areas and low spots. Maintain lines, levels, profiles and contours. Make changes in grade gradual. Blend slopes into level areas.
- B. Remove foreign materials, weeds, and undesirable plants and their roots. Remove any contaminated subsoil. Plants can be removed through application of glyphosphate. Follow manufacturer's instructions for proper use.
- C. Scarify subsoil to a depth of 3 inches where topsoil is to be placed. Repeat cultivation in areas where equipment, used for hauling and spreading topsoil, has compacted subsoil.

3.3 PLACING TOPSOIL

- A. Refer to Topsoil-Select Fill Materials and Application Section specifications.
- B. Spread any needed amendments per soil test and till soil to a depth of 3 to 4 inches. Ideal seed bed will be a combination of soil particles ranging from approximately a quarter inch to a full inch in size.
- C. Topsoil compaction should be below 250 psi, if topsoil compactions are greater soil should be ripped, disced, or otherwise loosened to a depth of at least 12 inches.

3.4 PREPARATION

- A. Stake all planting areas and notify Diggers Hotline (1-800-242-8511 statewide) to verify location of all underground utilities prior to excavation.
- B. Excavate planting areas as shown in included specifications.
- C. Adequately barricade with proper warning devices any planting pit left open when planting work is not in progress, and that poses a hazard to vehicles and/or pedestrians.
- D. Maintain site housekeeping to provide for a safe and orderly project site. Collect and dispose of debris as they accumulate.
- E. The planting pit for containerized and balled and burlapped plants shall be at least 2.5 to 3 times the diameter of the soil ball, or to a dimension otherwise specified.
- F. The planting pit for a single shrub shall be 12 inches (30.5 cm) wider than the root ball.
- G. Loosen the soil beyond the edge of the planting pit. The soil at the base of the planting pit is to remain undisturbed, the depth of which shall correspond to the distance from the bottom of the soil ball to the root flare, or slightly less.
- H. Fence and/or box in all trees and plant material which are to remain at the drip line before work is started. Do not permit heavy equipment or stockpiles within branch spread. Remove interfering branches without injury to trunks, cover scars with tree paint.
- I. For a shrub mass planting, the entire bed area is to be tilled to a depth of 4 to 6 inches (10.2 to 15.2 cm). Excavate individual shrub pits to the proper depth.

3.5 PLANTING OF TREES AND SHRUBS

- A. Remove plant containers by cutting or carefully inverting the container. For plants grown in plastic containers slash the edges of the root ball from top to bottom with vertical 1-inch (2.5 cm) cuts using a sharp blade.
- B. Root balled plants shall have rope, string, wire baskets, burlap and other wrapping material removed from the top half of the ball after the plant has been set in the hole. Remaining wrappings, other than those made from plastic or synthetic material, may be left around the bottom half of the ball.
- C. Shrubs grown using root containment material shall have the containment bag removed prior to setting.
- D. Set trees and shrubs straight and upright, and in the center of the planting hole and on the unexcavated base of the planting pit, with the most desirable face towards the most prominent view.

- E. Root-balled shrubs are to be carried and set in the hole by the root ball.
- F. Backfilling: Backfill pits with excavated soil. No soil in frozen or muddy condition shall be used for backfilling.
- G. When pit is approximately two-thirds backfilled, tamp down and water to eliminate air pockets. After initial watering, add remainder of the soil to the top of pit, water without puddling, and firmly tamp without overcompacting. Form a 2- to 3-inch (5.1 to 7.6 cm) high saucer around the outer rim of the pit prior to mulching.
- H. **Shredded Hardwood Bark Mulch Planting Ring**
 - 1. Deciduous and evergreen trees planted in seeded or sodded lawn areas shall be installed with a minimum 4' diameter shredded hardwood bark mulch tree ring spread to a consistent depth of 4-inches. A pre-emergent granular herbicide weed-preventer shall be mixed with mulch along with a topically applied to completed installation of tree ring.
 - 2. All shrubs planted in prairie seed mix areas shall be installed with a minimum 2' diameter shredded hardwood bark mulch tree ring spread to a consistent depth of 4-inches. A pre-emergent granular herbicide weed-preventer shall be mixed with mulch along with a topically applied to completed installation of tree ring.
 - 3. Tree and shrub rings shall be installed with a 5" depth vertical shovel cut edge in the diameter specified.
- I. All parking islands shall receive a minimum of 24 inches of topsoil.

3.6 PLANTING OF PERENNIALS, FORBS, AND GRASSES

- A. Preparation: Loosen soil of the planting bed to a depth of 4 to 6 inches (10.2 to 15.2 cm) by mechanical or hand tilling while soil is dry. For bulbs, the depth of loosened soil will be determined by the type of bulb planted, and specified in the contract or landscape plan.
- B. After soil is loosened, till organic material into the soil across the planting bed to a uniform depth of 2 inches (5.1 cm) for peat moss or 1 inch (2.5 cm) for compost.
- C. Fertilizer, at amounts determined by the soil test, shall be topdressed to the soil.
- D. **Apply approved mulch uniformly across the entire planting bed to the depth specified.**
- E. Planting: Space as described in the landscape plan.
- F. Unless otherwise specified, install plants no closer than 12 inches (30.5 cm) to the trunks of trees or shrubs within planting bed, and to within 6 inches (15.2 cm) of the edge of the bed.
- G. Prior to planting, biodegradable plant containers shall be split and non-biodegradable containers removed. The root systems of all such plants shall be split or crumbled by hand.
- ~~H. All parking islands that contain perennials (not including bioinfiltration area) shall have a minimum of 18 inches of topsoil. These areas shall also have 3 inches of mushroom compost spread uniformly over the parking island and tilled into the top 6 inches of the soil.~~

3.7 FINISHING

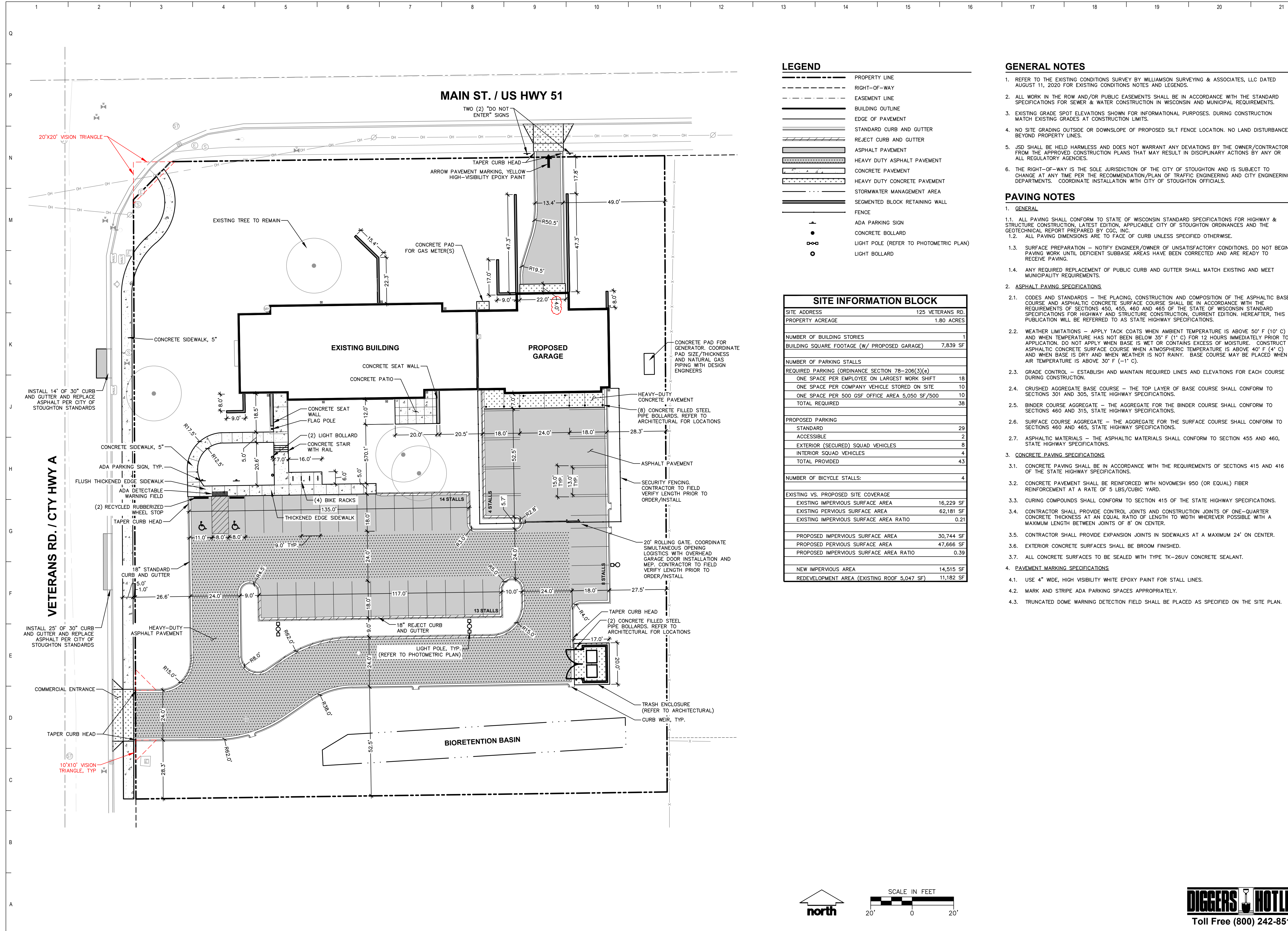
- A. Finish-grade planting areas to required elevations after plants have fully settled.
- B. No soil is to cover the top of the root ball. All plants shall be completely mulched over the root system **to a depth as specified** immediately after planting. Pull back mulch no less than 3 inches (7.6 cm) and no more than 6 inches (15.2 cm) from the trunk.
- C. Thoroughly water plants immediately after planting and before mulching, primarily within and filling the saucer.
- D. Prune any dead or broken branches. Prune in accordance with NAA Guidelines conforming to the American Standard for Tree Care Operations. Prune shrubs in accordance with standard horticultural practices. On cuts of 3/4 inches in diameter and bruises or scars on bark, trace the inured cambium layer back to living tissues and remove. Smooth and shape wounds so as not to retain water and coat the treated area within approved antiseptic tree paint.
- E. Remove all twine and rope after planting, along with any labels attached around trunks or branches.

3.8 CLEANING

- A. Dispose of excess soil. Remove all cuttings and waste materials.
- B. Soil, branches, binding and wrapping material, rejected plants, or other debris resulting from plant installation shall be promptly cleaned up and removed. New landscape construction in and around the planting areas are to be especially well-cleaned.

- C. Under no condition shall the accumulation of soil, branches or other debris be allowed upon a public property in such a manner as to result in a public hazard. Likewise, under no circumstances shall any debris or incidental materials be allowed upon adjacent private property.

END OF SECTION



LEGEND

- PROPERTY LINE
- - - RIGHT-OF-WAY
- - - EASEMENT LINE
- BUILDING OUTLINE
- EDGE OF PAVEMENT
- STANDARD CURB AND GUTTER
- REJECT CURB AND GUTTER
- ASPHALT PAVEMENT
- HEAVY DUTY ASPHALT PAVEMENT
- CONCRETE PAVEMENT
- HEAVY DUTY CONCRETE PAVEMENT
- STORMWATER MANAGEMENT AREA
- SEGMENTED BLOCK RETAINING WALL
- FENCE
- ▲ ADA PARKING SIGN
- CONCRETE BOLLARD
- LIGHT POLE (REFER TO PHOTOMETRIC PLAN)
- LIGHT BOLLARD

SITE INFORMATION BLOCK

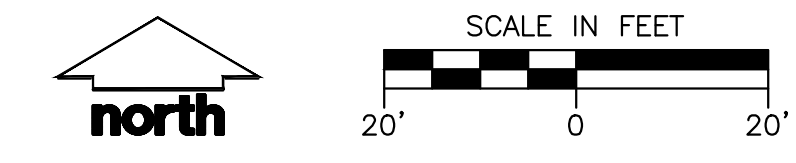
SITE ADDRESS	125 VETERANS RD.
PROPERTY ACREAGE	1.80 ACRES
NUMBER OF BUILDING STORIES	1
BUILDING SQUARE FOOTAGE (W/ PROPOSED GARAGE)	7,839 SF
NUMBER OF PARKING STALLS	
REQUIRED PARKING (ORDINANCE SECTION 78-206(3)(e))	
ONE SPACE PER EMPLOYEE ON LARGEST WORK SHIFT	18
ONE SPACE PER COMPANY VEHICLE STORED ON SITE	10
ONE SPACE PER 500 GSF OFFICE AREA 5,050 SF/500	10
TOTAL REQUIRED	38
PROPOSED PARKING	
STANDARD	29
ACCESSIBLE	2
EXTERIOR (SECURED) SQUAD VEHICLES	8
INTERIOR SQUAD VEHICLES	4
TOTAL PROVIDED	43
NUMBER OF BICYCLE STALLS:	4
EXISTING VS. PROPOSED SITE COVERAGE	
EXISTING IMPERVIOUS SURFACE AREA	16,229 SF
EXISTING PERVIOUS SURFACE AREA	62,181 SF
EXISTING IMPERVIOUS SURFACE AREA RATIO	0.21
PROPOSED IMPERVIOUS SURFACE AREA	30,744 SF
PROPOSED PERVIOUS SURFACE AREA	47,666 SF
PROPOSED IMPERVIOUS SURFACE AREA RATIO	0.39
NEW IMPERVIOUS AREA	14,515 SF
REDEVELOPMENT AREA (EXISTING ROOF 5,047 SF)	11,182 SF

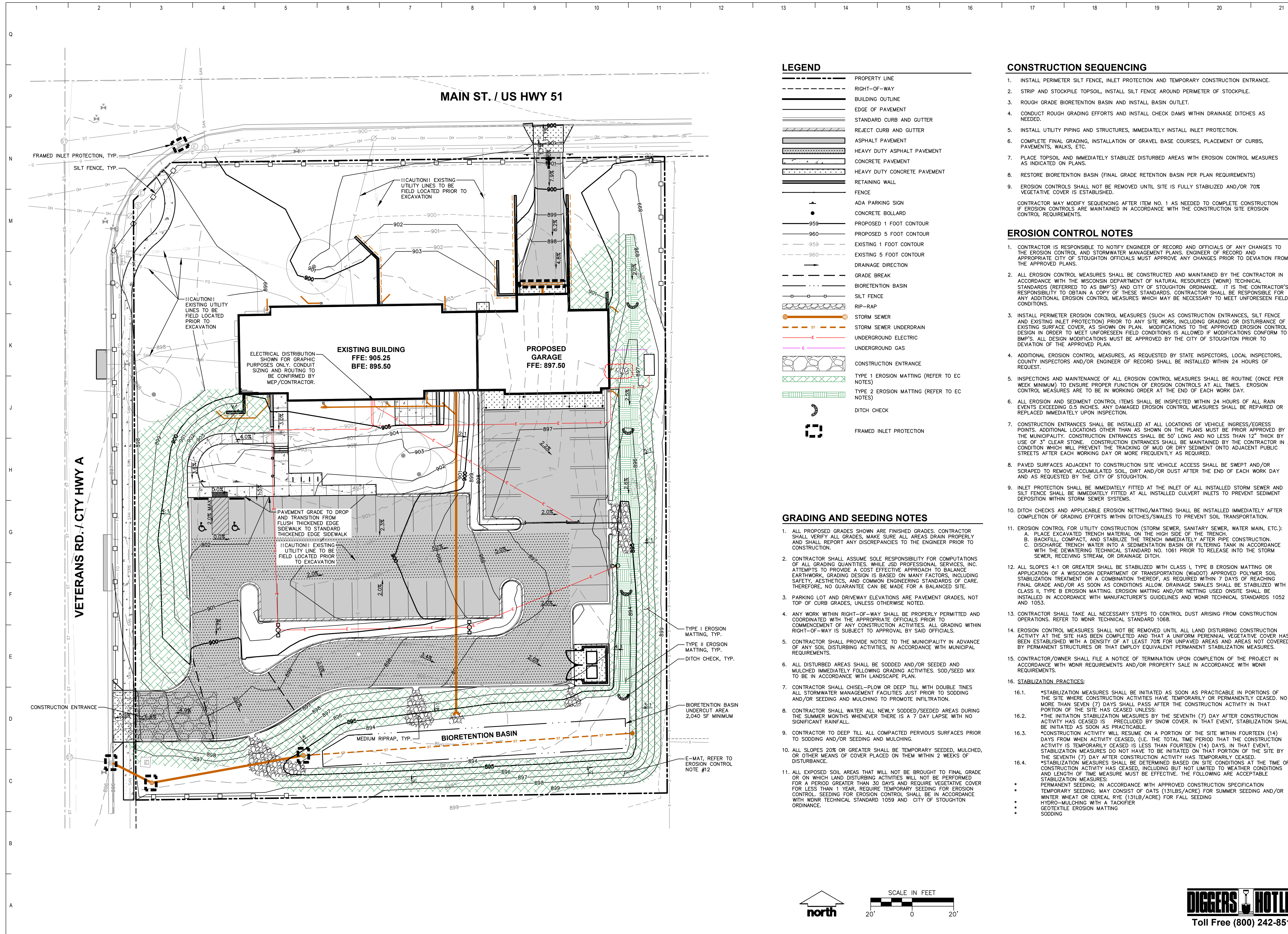
GENERAL NOTES

- REFER TO THE EXISTING CONDITIONS SURVEY BY WILLIAMSON SURVEYING & ASSOCIATES, LLC DATED AUGUST 11, 2020 FOR EXISTING CONDITIONS NOTES AND LEGENDS.
- ALL WORK IN THE ROW AND/OR PUBLIC EASEMENTS SHALL BE IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS FOR SEWER & WATER CONSTRUCTION IN WISCONSIN AND MUNICIPAL REQUIREMENTS.
- EXISTING GRADE SPOT ELEVATIONS SHOWN FOR INFORMATIONAL PURPOSES. DURING CONSTRUCTION MATCH EXISTING GRADES AT CONSTRUCTION LIMITS.
- NO SITE GRADING OUTSIDE OR DOWNSLOPE OF PROPOSED SILT FENCE LOCATION. NO LAND DISTURBANCE BEYOND PROPERTY LINES.
- JSD SHALL BE HELD HARMLESS AND DOES NOT WARRANT ANY DEVIATIONS BY THE OWNER/CONTRACTOR FROM THE APPROVED CONSTRUCTION PLANS THAT MAY RESULT IN DISCIPLINARY ACTIONS BY ANY OR ALL REGULATORY AGENCIES.
- THE RIGHT-OF-WAY IS THE SOLE JURISDICTION OF THE CITY OF STOUGHTON AND IS SUBJECT TO CHANGE AT ANY TIME PER THE RECOMMENDATION/PLAN OF TRAFFIC ENGINEERING AND CITY ENGINEERING DEPARTMENTS. COORDINATE INSTALLATION WITH CITY OF STOUGHTON OFFICIALS.

PAVING NOTES

- GENERAL**
 - ALL PAVING SHALL CONFORM TO STATE OF WISCONSIN STANDARD SPECIFICATIONS FOR HIGHWAY & STRUCTURE CONSTRUCTION, LATEST EDITION, APPLICABLE CITY OF STOUGHTON ORDINANCES AND THE GEOTECHNICAL REPORT PREPARED BY CCG, INC.
 - ALL PAVING DIMENSIONS ARE TO FACE OF CURB UNLESS SPECIFIED OTHERWISE.
 - SURFACE PREPARATION - NOTIFY ENGINEER/OWNER OF UNSATISFACTORY CONDITIONS. DO NOT BEGIN PAVING WORK UNTIL DEFICIENT SUBBASE AREAS HAVE BEEN CORRECTED AND ARE READY TO RECEIVE PAVING.
 - ANY REQUIRED REPLACEMENT OF PUBLIC CURB AND GUTTER SHALL MATCH EXISTING AND MEET MUNICIPALITY REQUIREMENTS.
- ASPHALT PAVING SPECIFICATIONS**
 - CODES AND STANDARDS - THE PLACING, CONSTRUCTION AND COMPOSITION OF THE ASPHALTIC BASE COURSE AND ASPHALTIC CONCRETE SURFACE COURSE SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS OF SECTIONS 450, 455, 460 AND 465 OF THE STATE OF WISCONSIN STANDARD SPECIFICATIONS FOR HIGHWAY AND STRUCTURE CONSTRUCTION, CURRENT EDITION. HEREAFTER, THIS PUBLICATION WILL BE REFERRED TO AS STATE HIGHWAY SPECIFICATIONS.
 - WEATHER LIMITATIONS - APPLY TACK COATS WHEN AMBIENT TEMPERATURE IS ABOVE 50° F (10° C) AND WHEN TEMPERATURE HAS NOT BEEN BELOW 35° F (1° C) FOR 12 HOURS IMMEDIATELY PRIOR TO APPLICATION. DO NOT APPLY WHEN BASE IS WET OR CONTAINS EXCESS OF MOISTURE. CONSTRUCT ASPHALTIC CONCRETE SURFACE COURSE WHEN ATMOSPHERIC TEMPERATURE IS ABOVE 40° F (4° C) AND WHEN BASE IS DRY AND WHEN WEATHER IS NOT RAINY. BASE COURSE MAY BE PLACED WHEN AIR TEMPERATURE IS ABOVE 30° F (-1° C).
 - GRADE CONTROL - ESTABLISH AND MAINTAIN REQUIRED LINES AND ELEVATIONS FOR EACH COURSE DURING CONSTRUCTION.
 - CRUSHED AGGREGATE BASE COURSE - THE TOP LAYER OF BASE COURSE SHALL CONFORM TO SECTIONS 301 AND 305, STATE HIGHWAY SPECIFICATIONS.
 - BINDER COURSE AGGREGATE - THE AGGREGATE FOR THE BINDER COURSE SHALL CONFORM TO SECTIONS 460 AND 315, STATE HIGHWAY SPECIFICATIONS.
 - SURFACE COURSE AGGREGATE - THE AGGREGATE FOR THE SURFACE COURSE SHALL CONFORM TO SECTIONS 460 AND 465, STATE HIGHWAY SPECIFICATIONS.
 - ASPHALTIC MATERIALS - THE ASPHALTIC MATERIALS SHALL CONFORM TO SECTION 455 AND 460, STATE HIGHWAY SPECIFICATIONS.
- CONCRETE PAVING SPECIFICATIONS**
 - CONCRETE PAVING SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS OF SECTIONS 415 AND 416 OF THE STATE HIGHWAY SPECIFICATIONS.
 - CONCRETE PAVEMENT SHALL BE REINFORCED WITH NOVOMESH 950 (OR EQUAL) FIBER REINFORCEMENT AT A RATE OF 5 LBS/CUBIC YARD.
 - CURING COMPOUNDS SHALL CONFORM TO SECTION 415 OF THE STATE HIGHWAY SPECIFICATIONS.
 - CONTRACTOR SHALL PROVIDE CONTROL JOINTS AND CONSTRUCTION JOINTS OF ONE-QUARTER CONCRETE THICKNESS AT AN EQUAL RATIO OF LENGTH TO WIDTH WHEREVER POSSIBLE WITH A MAXIMUM LENGTH BETWEEN JOINTS OF 8' ON CENTER.
 - CONTRACTOR SHALL PROVIDE EXPANSION JOINTS IN SIDEWALKS AT A MAXIMUM 24' ON CENTER.
 - EXTERIOR CONCRETE SURFACES SHALL BE BROOM FINISHED.
 - ALL CONCRETE SURFACES TO BE SEALED WITH TYPE TK-26UV CONCRETE SEALANT.
- PAVEMENT MARKING SPECIFICATIONS**
 - USE 4" WIDE, HIGH VISIBILITY WHITE EPOXY PAINT FOR STALL LINES.
 - MARK AND STRIPE ADA PARKING SPACES APPROPRIATELY.
 - TRUNCATED DOME WARNING DETECTION FIELD SHALL BE PLACED AS SPECIFIED ON THE SITE PLAN.





LEGEND

	PROPERTY LINE
	RIGHT-OF-WAY
	BUILDING OUTLINE
	EDGE OF PAVEMENT
	STANDARD CURB AND GUTTER
	REJECT CURB AND GUTTER
	ASPHALT PAVEMENT
	HEAVY DUTY ASPHALT PAVEMENT
	CONCRETE PAVEMENT
	HEAVY DUTY CONCRETE PAVEMENT
	RETAINING WALL
	FENCE
	ADA PARKING SIGN
	CONCRETE BOLLARD
	PROPOSED 1 FOOT CONTOUR
	PROPOSED 5 FOOT CONTOUR
	EXISTING 1 FOOT CONTOUR
	EXISTING 5 FOOT CONTOUR
	DRAINAGE DIRECTION
	GRADE BREAK
	BIORETENTION BASIN
	SILT FENCE
	RIP-RAP
	STORM SEWER
	STORM SEWER UNDERDRAIN
	UNDERGROUND ELECTRIC
	UNDERGROUND GAS
	CONSTRUCTION ENTRANCE
	TYPE I EROSION MATTING (REFER TO EC NOTES)
	TYPE 2 EROSION MATTING (REFER TO EC NOTES)
	DITCH CHECK
	FRAMED INLET PROTECTION

CONSTRUCTION SEQUENCING

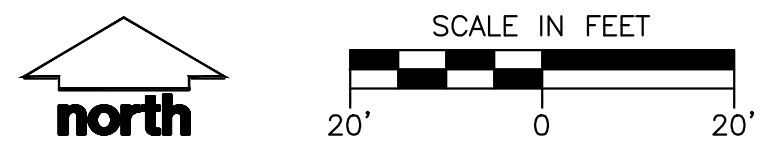
1. INSTALL PERIMETER SILT FENCE, INLET PROTECTION AND TEMPORARY CONSTRUCTION ENTRANCE.
 2. STRIP AND STOCKPILE TOPSOIL, INSTALL SILT FENCE AROUND PERIMETER OF STOCKPILE.
 3. ROUGH GRADE BIORETENTION BASIN AND INSTALL BASIN OUTLET.
 4. CONDUCT ROUGH GRADING EFFORTS AND INSTALL CHECK DAMS WITHIN DRAINAGE DITCHES AS NEEDED.
 5. INSTALL UTILITY PIPING AND STRUCTURES, IMMEDIATELY INSTALL INLET PROTECTION.
 6. COMPLETE FINAL GRADING, INSTALLATION OF GRAVEL BASE COURSES, PLACEMENT OF CURBS, PAVEMENTS, WALKS, ETC.
 7. PLACE TOPSOIL AND IMMEDIATELY STABILIZE DISTURBED AREAS WITH EROSION CONTROL MEASURES AS INDICATED ON PLANS.
 8. RESTORE BIORETENTION BASIN (FINAL GRADE RETENTION BASIN PER PLAN REQUIREMENTS)
 9. EROSION CONTROLS SHALL NOT BE REMOVED UNTIL SITE IS FULLY STABILIZED AND/OR 70% VEGETATIVE COVER IS ESTABLISHED.
- CONTRACTOR MAY MODIFY SEQUENCING AFTER ITEM NO. 1 AS NEEDED TO COMPLETE CONSTRUCTION IF EROSION CONTROLS ARE MAINTAINED IN ACCORDANCE WITH THE CONSTRUCTION SITE EROSION CONTROL REQUIREMENTS.

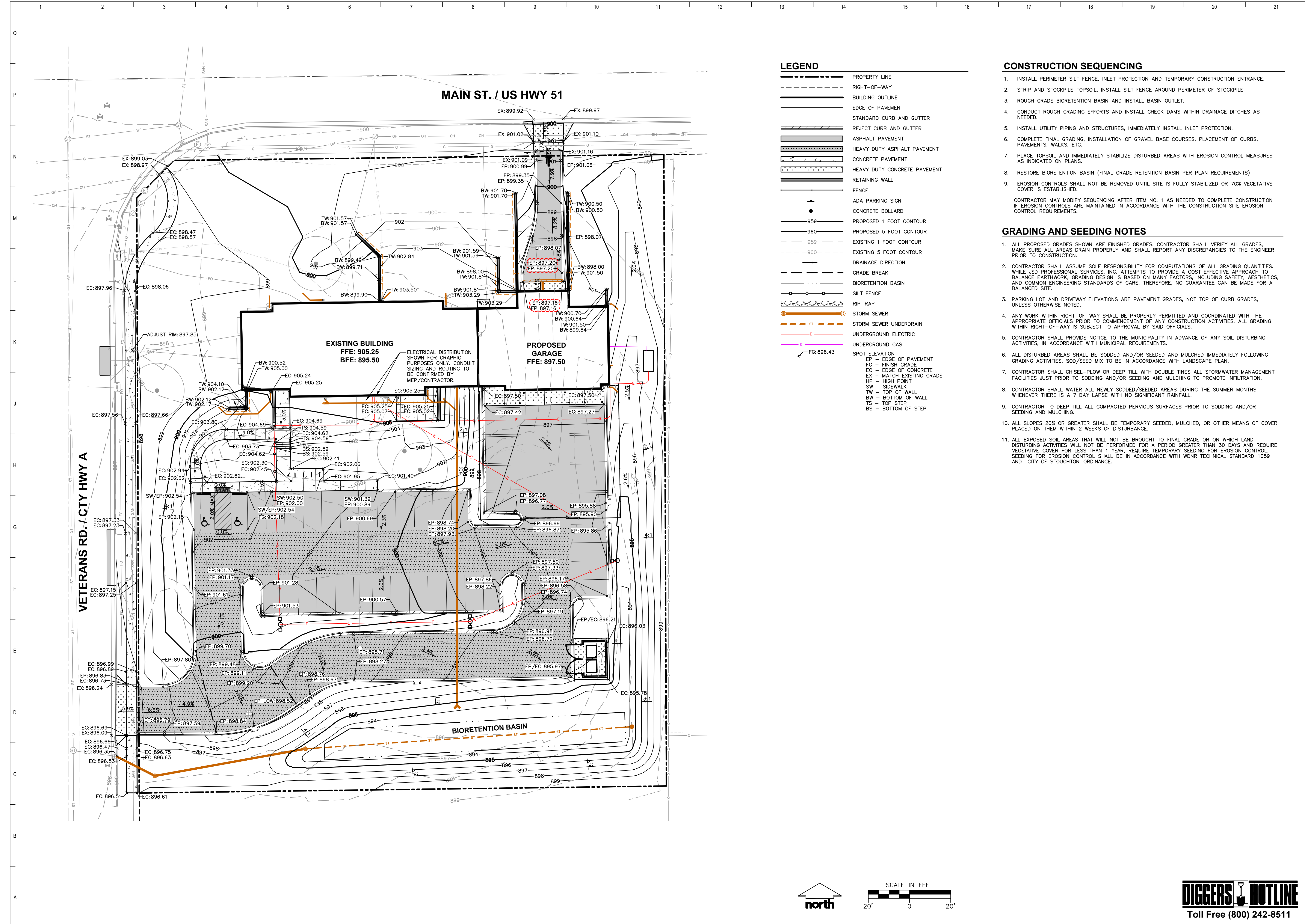
EROSION CONTROL NOTES

1. CONTRACTOR IS RESPONSIBLE TO NOTIFY ENGINEER OF RECORD AND OFFICIALS OF ANY CHANGES TO THE EROSION CONTROL AND STORMWATER MANAGEMENT PLANS. ENGINEER OF RECORD AND APPROPRIATE CITY OF STOUGHTON OFFICIALS MUST APPROVE ANY CHANGES PRIOR TO DEVIATION FROM THE APPROVED PLANS.
2. ALL EROSION CONTROL MEASURES SHALL BE CONSTRUCTED AND MAINTAINED BY THE CONTRACTOR IN ACCORDANCE WITH THE WISCONSIN DEPARTMENT OF NATURAL RESOURCES (WDNR) TECHNICAL STANDARDS (REFERRED TO AS BMP'S) AND CITY OF STOUGHTON ORDINANCE. IT IS THE CONTRACTOR'S RESPONSIBILITY TO OBTAIN A COPY OF THESE STANDARDS. CONTRACTOR SHALL BE RESPONSIBLE FOR ANY ADDITIONAL EROSION CONTROL MEASURES WHICH MAY BE NECESSARY TO MEET UNFORSEEN FIELD CONDITIONS.
3. INSTALL PERIMETER EROSION CONTROL MEASURES (SUCH AS CONSTRUCTION ENTRANCES, SILT FENCE AND EXISTING INLET PROTECTION) PRIOR TO ANY SITE WORK, INCLUDING GRADING OR DISTURBANCE OF EXISTING SURFACE COVER, AS SHOWN ON PLAN. MODIFICATIONS TO THE APPROVED EROSION CONTROL DESIGN IN ORDER TO MEET UNFORSEEN FIELD CONDITIONS IS ALLOWED IF MODIFICATIONS CONFORM TO BMP'S. ALL DESIGN MODIFICATIONS MUST BE APPROVED BY THE CITY OF STOUGHTON PRIOR TO DEVIATION OF THE APPROVED PLAN.
4. ADDITIONAL EROSION CONTROL MEASURES, AS REQUESTED BY STATE INSPECTORS, LOCAL INSPECTORS, COUNTY INSPECTORS AND/OR ENGINEER OF RECORD SHALL BE INSTALLED WITHIN 24 HOURS OF REQUEST.
5. INSPECTIONS AND MAINTENANCE OF ALL EROSION CONTROL MEASURES SHALL BE ROUTINE (ONCE PER WEEK MINIMUM) TO ENSURE PROPER FUNCTION OF EROSION CONTROLS AT ALL TIMES. EROSION CONTROL MEASURES ARE TO BE IN WORKING ORDER AT THE END OF EACH WORK DAY.
6. ALL EROSION AND SEDIMENT CONTROL ITEMS SHALL BE INSPECTED WITHIN 24 HOURS OF ALL RAIN EVENTS EXCEEDING 0.5 INCHES. ANY DAMAGED EROSION CONTROL MEASURES SHALL BE REPAIRED OR REPLACED IMMEDIATELY UPON INSPECTION.
7. CONSTRUCTION ENTRANCES SHALL BE INSTALLED AT ALL LOCATIONS OF VEHICLE INGRESS/EGRESS POINTS. ADDITIONAL LOCATIONS OTHER THAN AS SHOWN ON THE PLANS MUST BE PRIOR APPROVED BY THE MUNICIPALITY. CONSTRUCTION ENTRANCES SHALL BE 50' LONG AND NO LESS THAN 12" THICK BY USE OF 3" CLEAR STONE. CONSTRUCTION ENTRANCES SHALL BE MAINTAINED BY THE CONTRACTOR IN A CONDITION WHICH WILL PREVENT THE TRACKING OF MUD OR DRY SEDIMENT ONTO ADJACENT PUBLIC STREETS AFTER EACH WORKING DAY OR MORE FREQUENTLY AS REQUIRED.
8. PAVED SURFACES ADJACENT TO CONSTRUCTION SITE VEHICLE ACCESS SHALL BE SWEEPED AND/OR SCRAPED TO REMOVE ACCUMULATED SOIL, DIRT AND/OR DUST AFTER THE END OF EACH WORK DAY AND AS REQUESTED BY THE CITY OF STOUGHTON.
9. INLET PROTECTION SHALL BE IMMEDIATELY FITTED AT THE INLET OF ALL INSTALLED STORM SEWER AND SILT FENCE SHALL BE IMMEDIATELY FITTED AT ALL INSTALLED CULVERT INLETS TO PREVENT SEDIMENT DEPOSITION WITHIN STORM SEWER SYSTEMS.
10. DITCH CHECKS AND APPLICABLE EROSION NETTING/MATTING SHALL BE INSTALLED IMMEDIATELY AFTER COMPLETION OF GRADING EFFORTS WITHIN DITCHES/SWALES TO PREVENT SOIL TRANSPORTATION.
11. EROSION CONTROL FOR UTILITY CONSTRUCTION (STORM SEWER, SANITARY SEWER, WATER MAIN, ETC.):
 - A. PLACE EXCAVATED TRENCH MATERIAL ON THE HIGH SIDE OF THE TRENCH.
 - B. BACKFILL, COMPACT, AND STABILIZE THE TRENCH IMMEDIATELY AFTER PIPE CONSTRUCTION.
 - C. DISCHARGE TRENCH WATER INTO A SEDIMENTATION BASIN OR FILTERING TANK IN ACCORDANCE WITH THE DEWATERING TECHNICAL STANDARD NO. 1061 PRIOR TO RELEASE INTO THE STORM SEWER, RECEIVING STREAM, OR DRAINAGE DITCH.
12. ALL SLOPES 4:1 OR GREATER SHALL BE STABILIZED WITH CLASS I, TYPE B EROSION MATTING OR APPLICATION OF A WISCONSIN DEPARTMENT OF TRANSPORTATION (WisDOT) APPROVED POLYMER SOIL STABILIZATION TREATMENT OR A COMBINATION THEREOF, AS REQUIRED WITHIN 7 DAYS OF REACHING FINAL GRADE AND/OR AS SOON AS CONDITIONS ALLOW. DRAINAGE SWALES SHALL BE STABILIZED WITH CLASS II, TYPE B EROSION MATTING. EROSION MATTING AND/OR NETTING USED ON SITE SHALL BE INSTALLED IN ACCORDANCE WITH MANUFACTURER'S GUIDELINES AND WDNR TECHNICAL STANDARDS 1052 AND 1053.
13. CONTRACTOR SHALL TAKE ALL NECESSARY STEPS TO CONTROL DUST ARISING FROM CONSTRUCTION OPERATIONS. REFER TO WDNR TECHNICAL STANDARD 1068.
14. EROSION CONTROL MEASURES SHALL NOT BE REMOVED UNTIL ALL LAND DISTURBING CONSTRUCTION ACTIVITY AT THE SITE HAS BEEN COMPLETED AND THAT A UNIFORM PERENNIAL VEGETATIVE COVER HAS BEEN ESTABLISHED WITH A DENSITY OF AT LEAST 70% FOR UNPAVED AREAS AND AREAS NOT COVERED BY PERMANENT STRUCTURES OR THAT EMPLOY EQUIVALENT PERMANENT STABILIZATION MEASURES.
15. CONTRACTOR/OWNER SHALL FILE A NOTICE OF TERMINATION UPON COMPLETION OF THE PROJECT IN ACCORDANCE WITH WDNR REQUIREMENTS AND/OR PROPERTY SALE IN ACCORDANCE WITH WDNR REQUIREMENTS.
16. **STABILIZATION PRACTICES:**
 - 16.1. *STABILIZATION MEASURES SHALL BE INITIATED AS SOON AS PRACTICABLE IN PORTIONS OF THE SITE WHERE CONSTRUCTION ACTIVITIES HAVE TEMPORARILY OR PERMANENTLY CEASED. NO MORE THAN SEVEN (7) DAYS SHALL PASS AFTER THE CONSTRUCTION ACTIVITY IN THAT PORTION OF THE SITE HAS CEASED UNLESS:
 - *THE INITIATION STABILIZATION MEASURES BY THE SEVENTH (7) DAY AFTER CONSTRUCTION ACTIVITY HAS CEASED IS PRECLUDED BY SNOW COVER. IN THAT EVENT, STABILIZATION SHALL BE INITIATED AS SOON AS PRACTICABLE.
 - *CONSTRUCTION ACTIVITY WILL RESUME ON A PORTION OF THE SITE WITHIN FOURTEEN (14) DAYS FROM WHEN ACTIVITY CEASED, (I.E. THE TOTAL TIME PERIOD THAT THE CONSTRUCTION ACTIVITY IS TEMPORARILY CEASED IS LESS THAN FOURTEEN (14) DAYS. IN THAT EVENT, STABILIZATION MEASURES DO NOT HAVE TO BE INITIATED ON THAT PORTION OF THE SITE BY THE SEVENTH (7) DAY AFTER CONSTRUCTION ACTIVITY HAS TEMPORARILY CEASED.
 - *STABILIZATION MEASURES SHALL BE DETERMINED BASED ON SITE CONDITIONS AT THE TIME OF CONSTRUCTION ACTIVITY HAS CEASED, INCLUDING BUT NOT LIMITED TO WEATHER CONDITIONS AND LENGTH OF TIME MEASURE MUST BE EFFECTIVE. THE FOLLOWING ARE ACCEPTABLE STABILIZATION MEASURES:
 - PERMANENT SEEDING; IN ACCORDANCE WITH APPROVED CONSTRUCTION SPECIFICATION
 - TEMPORARY SEEDING; MAY CONSIST OF OATS (131LBS/ACRE) FOR SUMMER SEEDING AND/OR WINTER WHEAT OR CEREAL RYE (131LBS/ACRE) FOR FALL SEEDING
 - HYDRO-MULCHING WITH A TACKIFIER
 - GEOTEXTILE EROSION MATTING
 - SODDING

GRADING AND SEEDING NOTES

1. ALL PROPOSED GRADES SHOWN ARE FINISHED GRADES. CONTRACTOR SHALL VERIFY ALL GRADES, MAKE SURE ALL AREAS DRAIN PROPERLY AND SHALL REPORT ANY DISCREPANCIES TO THE ENGINEER PRIOR TO CONSTRUCTION.
2. CONTRACTOR SHALL ASSUME SOLE RESPONSIBILITY FOR COMPUTATIONS OF ALL GRADING QUANTITIES, WHILE JSD PROFESSIONAL SERVICES, INC. ATTEMPTS TO PROVIDE A COST EFFECTIVE APPROACH TO BALANCE EARTHWORK, GRADING DESIGN IS BASED ON MANY FACTORS, INCLUDING SAFETY, AESTHETICS, AND COMMON ENGINEERING STANDARDS OF CARE. THEREFORE, NO GUARANTEE CAN BE MADE FOR A BALANCED SITE.
3. PARKING LOT AND DRIVEWAY ELEVATIONS ARE PAVEMENT GRADES, NOT TOP OF CURB GRADES, UNLESS OTHERWISE NOTED.
4. ANY WORK WITHIN RIGHT-OF-WAY SHALL BE PROPERLY PERMITTED AND COORDINATED WITH THE APPROPRIATE OFFICIALS PRIOR TO COMMENCEMENT OF ANY CONSTRUCTION ACTIVITIES. ALL GRADING WITHIN RIGHT-OF-WAY IS SUBJECT TO APPROVAL BY SAID OFFICIALS.
5. CONTRACTOR SHALL PROVIDE NOTICE TO THE MUNICIPALITY IN ADVANCE OF ANY SOIL DISTURBING ACTIVITIES, IN ACCORDANCE WITH MUNICIPAL REQUIREMENTS.
6. ALL DISTURBED AREAS SHALL BE SODDED AND/OR SEEDED AND MULCHED IMMEDIATELY FOLLOWING GRADING ACTIVITIES. SOD/SEED MIX TO BE IN ACCORDANCE WITH LANDSCAPE PLAN.
7. CONTRACTOR SHALL CHISEL-PLow OR DEEP TILL WITH DOUBLE TINES ALL STORMWATER MANAGEMENT FACILITIES JUST PRIOR TO SODDING AND/OR SEEDING AND MULCHING TO PROMOTE INFILTRATION.
8. CONTRACTOR SHALL WATER ALL NEWLY SODDED/SEEDING AREAS DURING THE SUMMER MONTHS WHENEVER THERE IS A 7 DAY LAPSE WITH NO SIGNIFICANT RAINFALL.
9. CONTRACTOR TO DEEP TILL ALL COMPACTED PERVIOUS SURFACES PRIOR TO SODDING AND/OR SEEDING AND MULCHING.
10. ALL SLOPES 20% OR GREATER SHALL BE TEMPORARY SEEDED, MULCHED, OR OTHER MEANS OF COVER PLACED ON THEM WITHIN 2 WEEKS OF DISTURBANCE.
11. ALL EXPOSED SOIL AREAS THAT WILL NOT BE BROUGHT TO FINAL GRADE OR ON WHICH LAND DISTURBING ACTIVITIES WILL NOT BE PERFORMED FOR A PERIOD GREATER THAN 30 DAYS AND REQUIRE VEGETATIVE COVER FOR LESS THAN 1 YEAR, REQUIRE TEMPORARY SEEDING FOR EROSION CONTROL. SEEDING FOR EROSION CONTROL SHALL BE IN ACCORDANCE WITH WDNR TECHNICAL STANDARD 1059 AND CITY OF STOUGHTON ORDINANCE.



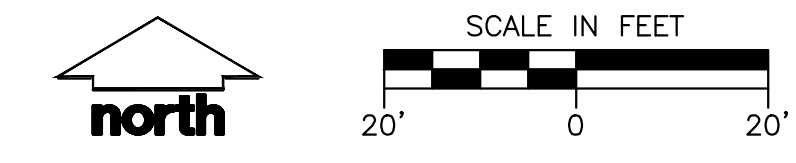


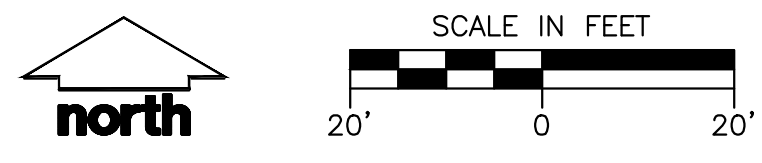
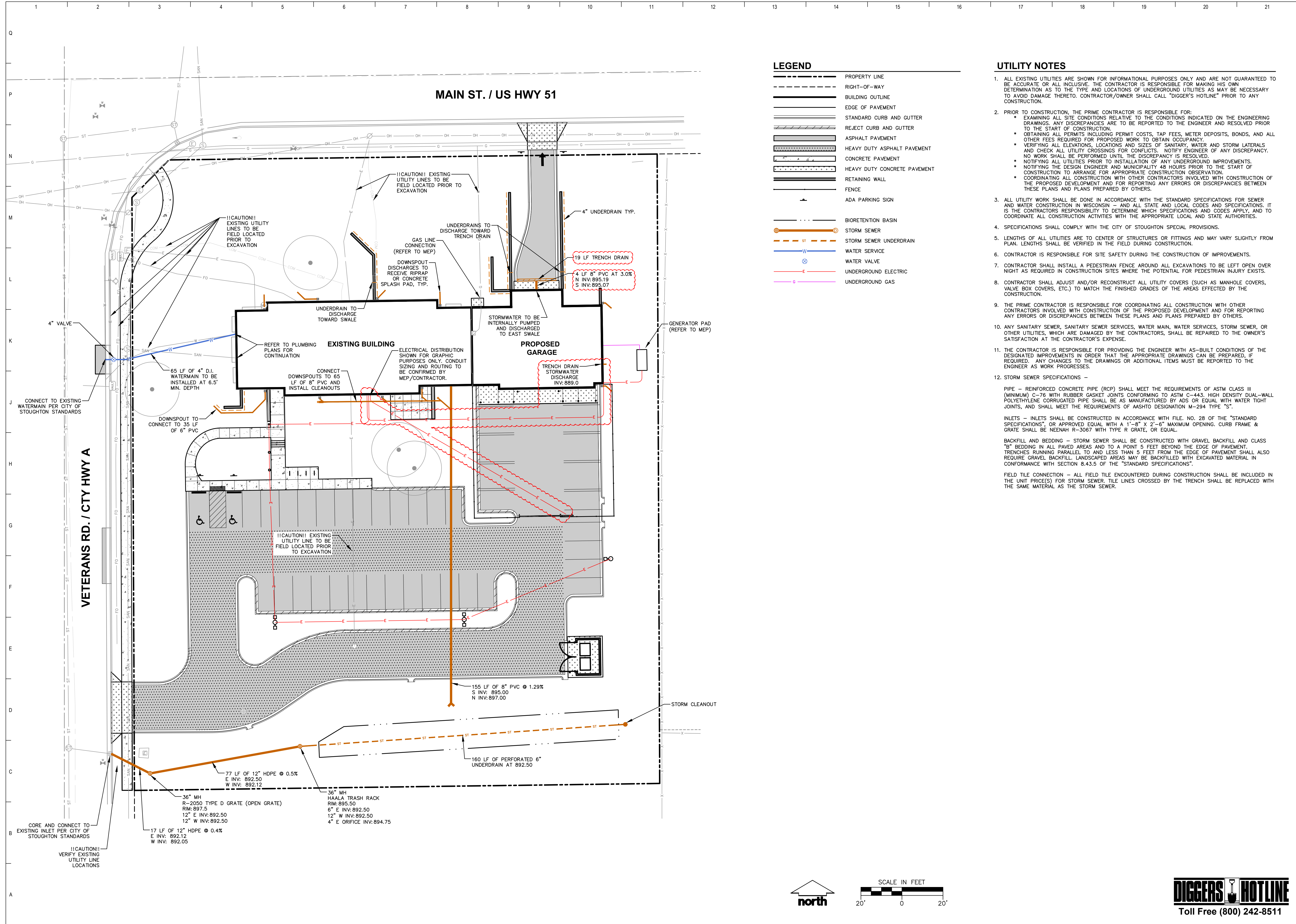
LEGEND

---	PROPERTY LINE
- - - -	RIGHT-OF-WAY
---	BUILDING OUTLINE
---	EDGE OF PAVEMENT
---	STANDARD CURB AND GUTTER
---	REJECT CURB AND GUTTER
---	ASPHALT PAVEMENT
---	HEAVY DUTY ASPHALT PAVEMENT
---	CONCRETE PAVEMENT
---	HEAVY DUTY CONCRETE PAVEMENT
---	RETAINING WALL
---	FENCE
▲	ADA PARKING SIGN
●	CONCRETE BOLLARD
959	PROPOSED 1 FOOT CONTOUR
960	PROPOSED 5 FOOT CONTOUR
959	EXISTING 1 FOOT CONTOUR
960	EXISTING 5 FOOT CONTOUR
---	DRAINAGE DIRECTION
---	GRADE BREAK
---	BIORETENTION BASIN
---	SILT FENCE
---	RIP-RAP
---	STORM SEWER
---	STORM SEWER UNDERDRAIN
---	UNDERGROUND ELECTRIC
---	UNDERGROUND GAS
●	SPOT ELEVATION
EP	EDGE OF PAVEMENT
FC	FINISH GRADE
EC	EDGE OF CONCRETE
EX	MATCH EXISTING GRADE
HP	HIGH POINT
SW	SIDEWALK
TW	TOP OF WALL
BW	BOTTOM OF WALL
TS	TOP STEP
BS	BOTTOM OF STEP
FG	896.43

- CONSTRUCTION SEQUENCING**
1. INSTALL PERIMETER SILT FENCE, INLET PROTECTION AND TEMPORARY CONSTRUCTION ENTRANCE.
 2. STRIP AND STOCKPILE TOPSOIL, INSTALL SILT FENCE AROUND PERIMETER OF STOCKPILE.
 3. ROUGH GRADE BIORETENTION BASIN AND INSTALL BASIN OUTLET.
 4. CONDUCT ROUGH GRADING EFFORTS AND INSTALL CHECK DAMS WITHIN DRAINAGE DITCHES AS NEEDED.
 5. INSTALL UTILITY PIPING AND STRUCTURES, IMMEDIATELY INSTALL INLET PROTECTION.
 6. COMPLETE FINAL GRADING, INSTALLATION OF GRAVEL BASE COURSES, PLACEMENT OF CURBS, PAVEMENTS, WALKS, ETC.
 7. PLACE TOPSOIL AND IMMEDIATELY STABILIZE DISTURBED AREAS WITH EROSION CONTROL MEASURES AS INDICATED ON PLANS.
 8. RESTORE BIORETENTION BASIN (FINAL GRADE RETENTION BASIN PER PLAN REQUIREMENTS)
 9. EROSION CONTROLS SHALL NOT BE REMOVED UNTIL SITE IS FULLY STABILIZED OR 70% VEGETATIVE COVER IS ESTABLISHED.
- CONTRACTOR MAY MODIFY SEQUENCING AFTER ITEM NO. 1 AS NEEDED TO COMPLETE CONSTRUCTION IF EROSION CONTROLS ARE MAINTAINED IN ACCORDANCE WITH THE CONSTRUCTION SITE EROSION CONTROL REQUIREMENTS.

- GRADING AND SEEDING NOTES**
1. ALL PROPOSED GRADES SHOWN ARE FINISHED GRADES. CONTRACTOR SHALL VERIFY ALL GRADES, MAKE SURE ALL AREAS DRAIN PROPERLY AND SHALL REPORT ANY DISCREPANCIES TO THE ENGINEER PRIOR TO CONSTRUCTION.
 2. CONTRACTOR SHALL ASSUME SOLE RESPONSIBILITY FOR COMPUTATIONS OF ALL GRADING QUANTITIES. WHILE JSD PROFESSIONAL SERVICES, INC. ATTEMPTS TO PROVIDE A COST EFFECTIVE APPROACH TO BALANCE EARTHWORK, GRADING DESIGN IS BASED ON MANY FACTORS, INCLUDING SAFETY, AESTHETICS, AND COMMON ENGINEERING STANDARDS OF CARE. THEREFORE, NO GUARANTEE CAN BE MADE FOR A BALANCED SITE.
 3. PARKING LOT AND DRIVEWAY ELEVATIONS ARE PAVEMENT GRADES, NOT TOP OF CURB GRADES, UNLESS OTHERWISE NOTED.
 4. ANY WORK WITHIN RIGHT-OF-WAY SHALL BE PROPERLY PERMITTED AND COORDINATED WITH THE APPROPRIATE OFFICIALS PRIOR TO COMMENCEMENT OF ANY CONSTRUCTION ACTIVITIES. ALL GRADING WITHIN RIGHT-OF-WAY IS SUBJECT TO APPROVAL BY SAID OFFICIALS.
 5. CONTRACTOR SHALL PROVIDE NOTICE TO THE MUNICIPALITY IN ADVANCE OF ANY SOIL DISTURBING ACTIVITIES, IN ACCORDANCE WITH MUNICIPAL REQUIREMENTS.
 6. ALL DISTURBED AREAS SHALL BE SODDED AND/OR SEEDDED AND MULCHED IMMEDIATELY FOLLOWING GRADING ACTIVITIES. SOD/SEED MIX TO BE IN ACCORDANCE WITH LANDSCAPE PLAN.
 7. CONTRACTOR SHALL CHISEL-PLOW OR DEEP TILL WITH DOUBLE TINES ALL STORMWATER MANAGEMENT FACILITIES JUST PRIOR TO SODDING AND/OR SEEDING AND MULCHING TO PROMOTE INFILTRATION.
 8. CONTRACTOR SHALL WATER ALL NEWLY SODDED/SEEDDED AREAS DURING THE SUMMER MONTHS WHENEVER THERE IS A 7 DAY LAPSE WITH NO SIGNIFICANT RAINFALL.
 9. CONTRACTOR TO DEEP TILL ALL COMPACTED PERVIOUS SURFACES PRIOR TO SODDING AND/OR SEEDING AND MULCHING.
 10. ALL SLOPES 20% OR GREATER SHALL BE TEMPORARY SEEDDED, MULCHED, OR OTHER MEANS OF COVER PLACED ON THEM WITHIN 2 WEEKS OF DISTURBANCE.
 11. ALL EXPOSED SOIL AREAS THAT WILL NOT BE BROUGHT TO FINAL GRADE OR ON WHICH LAND DISTURBING ACTIVITIES WILL NOT BE PERFORMED FOR A PERIOD GREATER THAN 30 DAYS AND REQUIRE VEGETATIVE COVER FOR LESS THAN 1 YEAR, REQUIRE TEMPORARY SEEDING FOR EROSION CONTROL. SEEDING FOR EROSION CONTROL SHALL BE IN ACCORDANCE WITH WDNR TECHNICAL STANDARD 1059 AND CITY OF STOUGHTON ORDINANCE.







CONTRACTOR AND OWNER RESPONSIBILITY NOTES

- GUARANTEE:** THE CONTRACTOR SHALL GUARANTEE ALL PLANTS THROUGH ONE (1) YEAR AFTER ACCEPTANCE BY THE OWNER'S REPRESENTATIVE. PLANTS SHALL BE ALIVE AND IN HEALTHY AND FLOURISHING CONDITION AT THE END OF THE GUARANTEE PERIOD. THE CONTRACTOR SHALL REPLACE (AT NO COST TO OWNER) ANY PLANTS THAT ARE DEAD OR NOT IN A VIGOROUS THRIVING CONDITION. REPLACEMENT PLANTS SHALL BE OF THE SAME KIND AND SIZE AS ORIGINALLY SPECIFIED UNLESS OTHERWISE DIRECTED BY OWNER'S REPRESENTATIVE. RESTORE BEDS AS NECESSARY FOLLOWING PLANT REPLACEMENT, INCLUDING BUT NOT LIMITED TO BEDDING, EDGING, MULCH, ETC. REPLACE PLANTS DAMAGED AT TIME OF PLANTING. REPAIR AREAS DISTURBED IN ANY WAY DURING PLANT REPLACEMENT AT NO COST TO OWNER. CONTRACTOR SHALL PROVIDE A ONE (1)-YEAR STRAIGHTENING GUARANTEE FOR ALL TREES.
- CONTRACTOR IS RESPONSIBLE FOR STAKING THE PLANT MATERIALS FOR REVIEW BY OWNER'S REPRESENTATIVE PRIOR TO DIGGING AND PLACEMENT AND SHALL COORDINATE ALL FINE GRADING AND RESTORATION WITH THE GRADING CONTRACTOR.**
- MAINTENANCE (CONTRACTOR) FOR ALL PLANTING, SEEDING OR SODDED LAWN AREAS:** THE CONTRACTOR SHALL MAINTAIN ALL PLANTINGS AND LAWN AREAS FOR A MINIMUM TIME PERIOD OF 60 DAYS, UNTIL FINAL ACCEPTANCE BY OWNER'S REPRESENTATIVE. THE CONTRACTOR IS RESPONSIBLE FOR ADEQUATELY WATERING PLANTS AND LAWN/TURFGRASS DURING THIS 60 DAY ESTABLISHMENT PERIOD. CONTRACTOR IS RESPONSIBLE FOR THE ESTABLISHMENT OF HEALTHY WOODS PLANT MATERIALS AND LAWN/TURFGRASS GROWTH. CONTRACTOR IS ALSO RESPONSIBLE FOR ANY PRUNING OF PLANT MATERIALS, AND SHAPING AND/OR REPLACEMENT OR SUPPLEMENT OF DEFICIENT SHREDDED HARDWOOD BARK MULCH DURING THIS PERIOD. LONG TERM PLANT MATERIALS AND LAWN/TURFGRASS MAINTENANCE AND ANY PROGRAM FOR SUCH IS THE RESPONSIBILITY OF THE OWNER. ALL PLANTINGS AND LAWN/TURFGRASS AREAS SHALL BE MAINTAINED IN A MANICURED CONDITION UNTIL THE TIME WHEN THE OWNER'S ACCEPTANCE IS GIVEN.
- MAINTENANCE (OWNER) THE OWNER IS RESPONSIBLE FOR THE CONTINUED MAINTENANCE, REPAIR AND REPLACEMENT OF ALL LANDSCAPING MATERIALS AND WEED BARRIER FABRIC AS NECESSARY FOLLOWING THE ONE (1) YEAR CONTRACTOR GUARANTEE PERIOD.**

GENERAL NOTES

- GENERAL:** ALL WORK IN THE R-0-W AND PUBLIC EASEMENTS SHALL BE IN ACCORDANCE WITH LOCAL MUNICIPAL REQUIREMENTS. JSD SHALL BE HELD HARMLESS AND DOES NOT WARRANT ANY DEVIATIONS BY THE OWNER/CONTRACTOR FROM THE APPROVED CONSTRUCTION PLANS THAT MAY RESULT IN DISCIPLINARY ACTIONS BY ANY OR ALL REGULATORY AGENCIES. LOCATE ALL UTILITIES PRIOR TO CONSTRUCTION. THE CONTRACTOR IS RESPONSIBLE FOR REPAIRING ANY DAMAGE DONE TO UTILITIES. CONTRACTOR MUST CALL 1-800-242-8511 FOR UTILITY LOCATIONS AT LEAST THREE DAYS PRIOR TO DIGGING. HAND DIG AND INSTALL ALL PLANTS THAT ARE NEAR EXISTING UTILITIES. PROTECT PREVIOUSLY INSTALLED WORK OF OTHER TRADES. CONTRACTOR IS RESPONSIBLE FOR STAKING THE PLANT MATERIALS FOR REVIEW BY OWNER PRIOR TO DIGGING AND PLACEMENT AND SHALL COORDINATE ALL FINE GRADING AND RESTORATION WITH THE GRADING CONTRACTOR.
- DELIVERY AND HANDLING:** DO NOT DELIVER MORE PLANT MATERIALS THAN CAN BE PLANTED IN ONE DAY, UNLESS ADEQUATE, APPROPRIATE AND SECURE STORAGE IS PROVIDED AND APPROVED BY OWNER'S REPRESENTATIVE. AT ALL TIMES, PROTECT ALL PLANT MATERIALS FROM WIND AND DIRECT SUN, AND PROTECT FROM DAMAGE DURING DELIVERY AND DO NOT PRUNE PRIOR TO DELIVERY. ALL TREES AND SHRUBS SHALL BE PLANTED ON THE DAY OF DELIVERY; IF THIS IS NOT POSSIBLE, PROTECT THE PLANT MATERIALS NOT PLANTED BY STORING THEM IN A SHADED, SECURE AREA, PROTECTING THE ROOT MASS WITH WET SOIL, MULCH, HAY OR OTHER SUITABLE MEDIUM. CONTRACTOR TO KEEP ALL PLANT MATERIALS ADEQUATELY WATERED TO PREVENT ROOT DESICCATION. DO NOT REMOVE CONTAINER GROWN STOCK FROM CONTAINERS BEFORE TIME OF PLANTING. DO NOT PICK UP CONTAINER OR BALLED PLANTS BY STEM OR ROOTS. ALL PLANTS SHALL BE LIFTED AND HANDLED FROM THE BOTTOM OF THE CONTAINER OR BALL. PERFORM ACTUAL PLANTING ONLY WHEN WEATHER AND SOIL CONDITIONS ARE SUITABLE IN ACCORDANCE WITH LOCALLY ACCEPTED BEST HORTICULTURAL PRACTICES.
- MATERIALS - PLANTS:** ALL PLANTS SHALL CONFORM TO THE LATEST VERSION OF THE AMERICAN STANDARD FOR NURSERY STOCK ANSI Z60.1. PLANTS SHALL BE TRUE TO SPECIES AND VARIETY SPECIFIED AND NURSERY GROWN IN ACCORDANCE WITH GOOD HORTICULTURAL PRACTICES UNDER CLIMATIC CONDITIONS SIMILAR TO THOSE IN THE LOCALITY OF THE PROJECT FOR AT LEAST 2 YEARS. PLANTS SHALL BE FRESHLY DUG (DURING THE MOST RECENT FAVORABLE HARVEST SEASON). PLANTS SHALL BE SO TRAINED IN DEVELOPMENT AND APPEARANCE AS TO BE UNQUESTIONABLY SUPERIOR IN FORM, COMPACTNESS, AND SYMMETRY. PLANTS SHALL BE SOUND, HEALTHY, VIGOROUS, WELL BRANCHED AND DENSELY FOLIATED WHEN IN LEAF, AND FREE OF DISEASE AND INSECTS (ADULT EGGS, PUPAE OR LARVAE). THEY SHALL HAVE HEALTHY, WELL-DEVELOPED ROOT SYSTEMS AND SHALL BE FREE FROM PHYSICAL DAMAGE OR OTHER CONDITIONS THAT WOULD PREVENT THRIVING GROWTH OR PREMATURE MORTALITY. PLANTS SHALL BE OF THE HIGHEST QUALITY, POSSESS TYPICAL GROWTH HABITS AND FORM FOR THEIR SPECIES AND BE FREE OF INJURY. PARKWAY TREES AND PARKING LOT TREES SHALL HAVE A MINIMUM BRANCHING HEIGHT OF SIX (6) FEET ABOVE THE GROUND TO ALLOW ADEQUATE VISUAL AND PHYSICAL CLEARANCE.
- PRUNING:** THE CONTRACTOR SHALL PRUNE ALL TREES AND REPAIR ANY INJURIES THAT OCCURRED DURING THE PLANTING PROCESS. DOUBLE LEADERS, DEAD BRANCHES, AND LIMBS DAMAGED OR BROKEN DURING THE PLANTING PROCESS, SHALL BE PRUNED. THIS SHALL BE THE ONLY PRUNING ALLOWED AT PLANTING. PRUNING SHALL CONFORM TO THE LATEST VERSION OF THE AMERICAN STANDARD FOR TREE CARE OPERATIONS, ANSI A300. PRUNE TREES IN ACCORDANCE WITH NAA GUIDELINES. DO NOT TOP TREES. PRUNE SHRUBS ACCORDING TO STANDARD HORTICULTURAL PRACTICES. ON CUTS OVER 3/4" IN DIAMETER AND BRUISES OR SCARS ON BARK, TRACE THE INJURED CAMBIAL LAYER BACK TO LIVING TISSUE AND REMOVE. SMOOTH AND SHAPE WOUNDS SO AS NOT TO RETAIN WATER. TREAT THE AREA WITH AN APPROVED INCONSPICUOUS LATEX BASED ANTISEPTIC TREE PAINT, IF PRUNING OCCURS "IN SEASON". DO NOT PRUNE ANY OAK TREES DURING THE MONTHS FROM APRIL TO OCTOBER.
- CLEANUP:** THE WORK AREA SHALL BE KEPT SAFE AND NEAT AT ALL TIMES. DISPOSED OF EXCESS SOIL. REMOVE ALL CUTTINGS AND WASTE MATERIALS. SOIL AND BRANCHES. BIND AND WRAP THESE MATERIALS, AND ANY OTHER DEBRIS RESULTING FROM ALL PLANTING TASKS AND PROMPTLY CLEAN UP AND REMOVE FROM THE PROJECT SITE. UNDER NO CIRCUMSTANCES SHALL THE ACCUMULATION OF SOIL OR DEBRIS BE ALLOWED UPON A PUBLIC PROPERTY IN SUCH A MANNER AS TO RESULT IN A PUBLIC SAFETY HAZARD OR DAMAGE. LIKEWISE, UNDER NO CIRCUMSTANCES SHALL ANY DEBRIS OR INCIDENTAL MATERIALS BE ALLOWED UPON ADJACENT PRIVATE PROPERTY.
- ANY SUBSTITUTIONS IN PLANT TYPE, LOCATION, OR SIZE SHALL BE APPROVED BY LANDSCAPE ARCHITECT PRIOR TO INSTALLATION.
- CONTRACTOR TO VERIFY PLANT MATERIAL QUANTITIES AND SQUARE FOOTAGES. QUANTITIES SHOWN ON PLAN TAKE PRECEDENCE OVER THOSE ON SCHEDULE.

LANDSCAPE MATERIAL NOTES

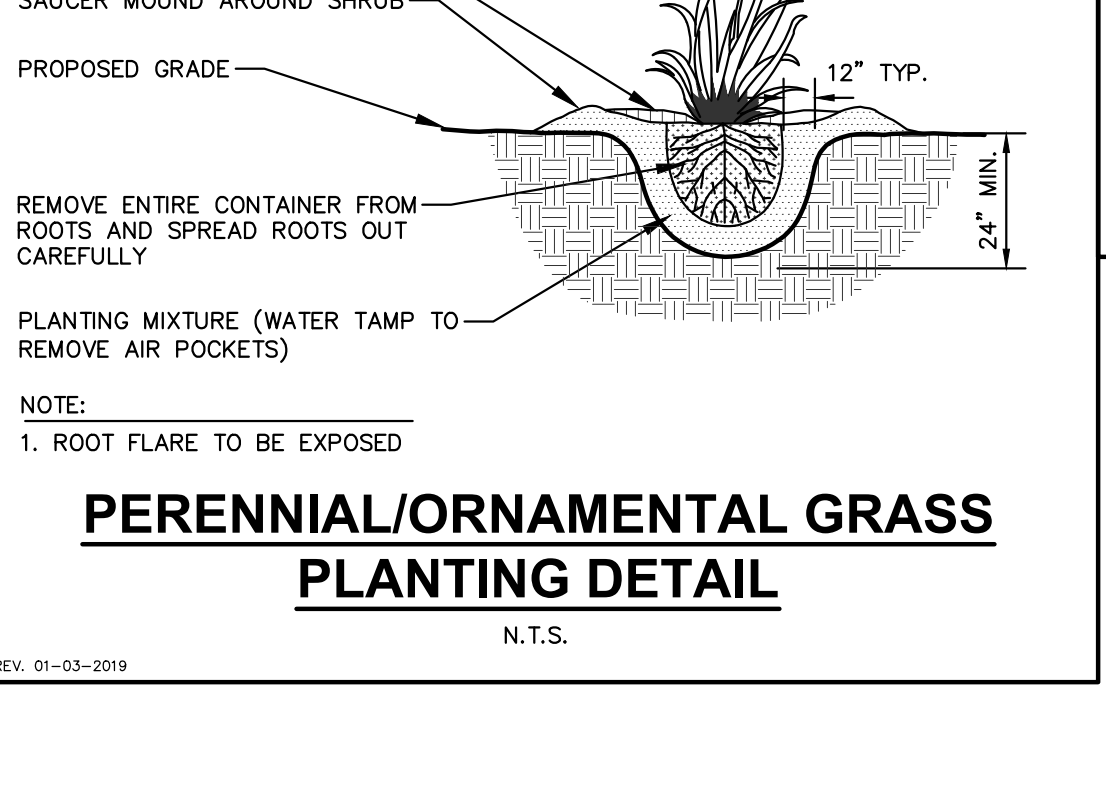
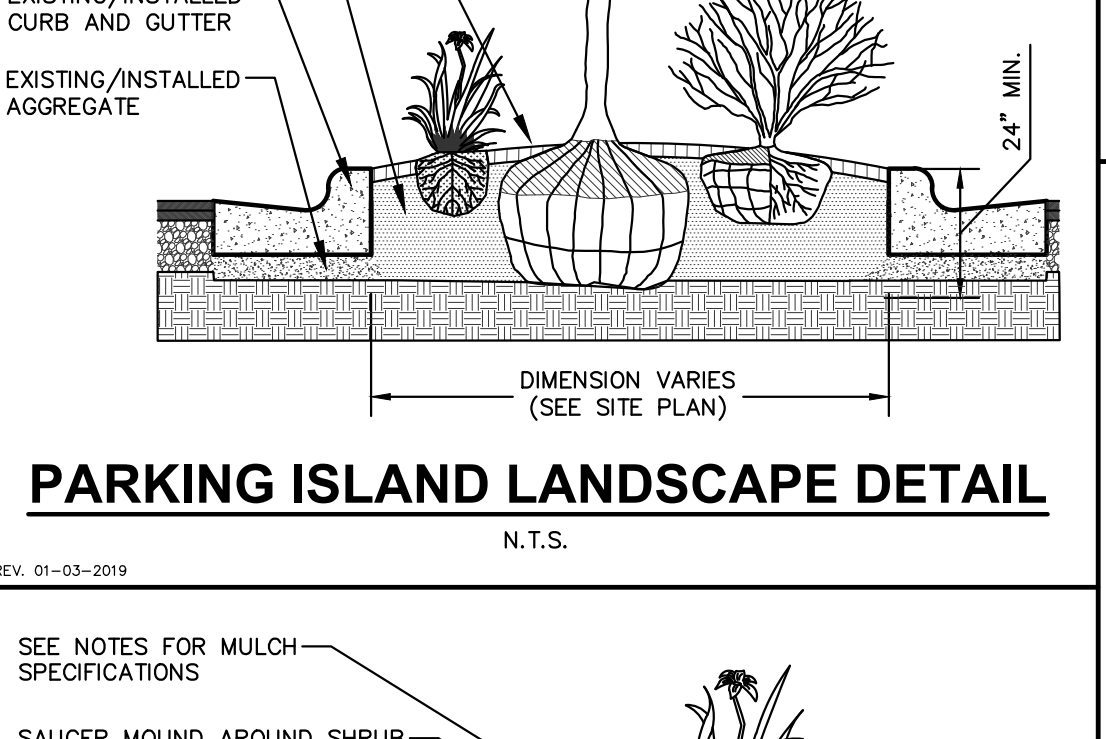
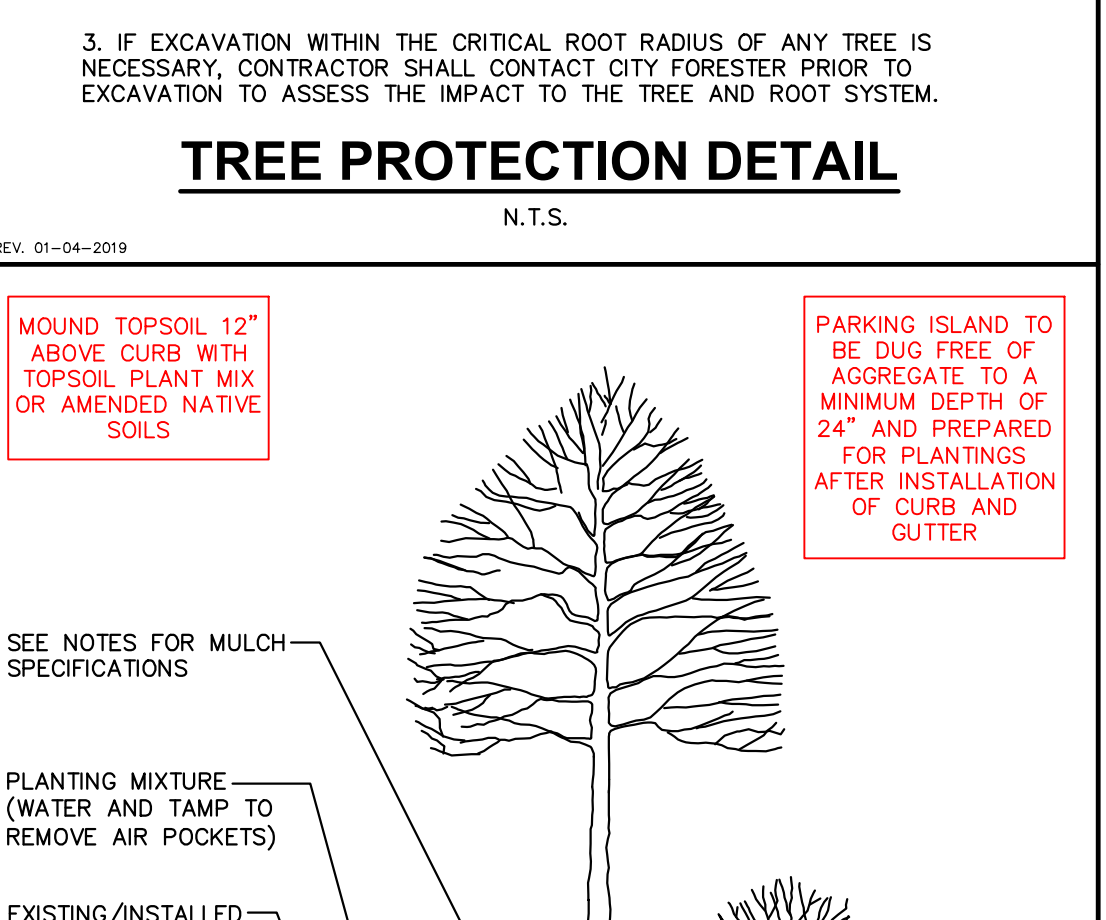
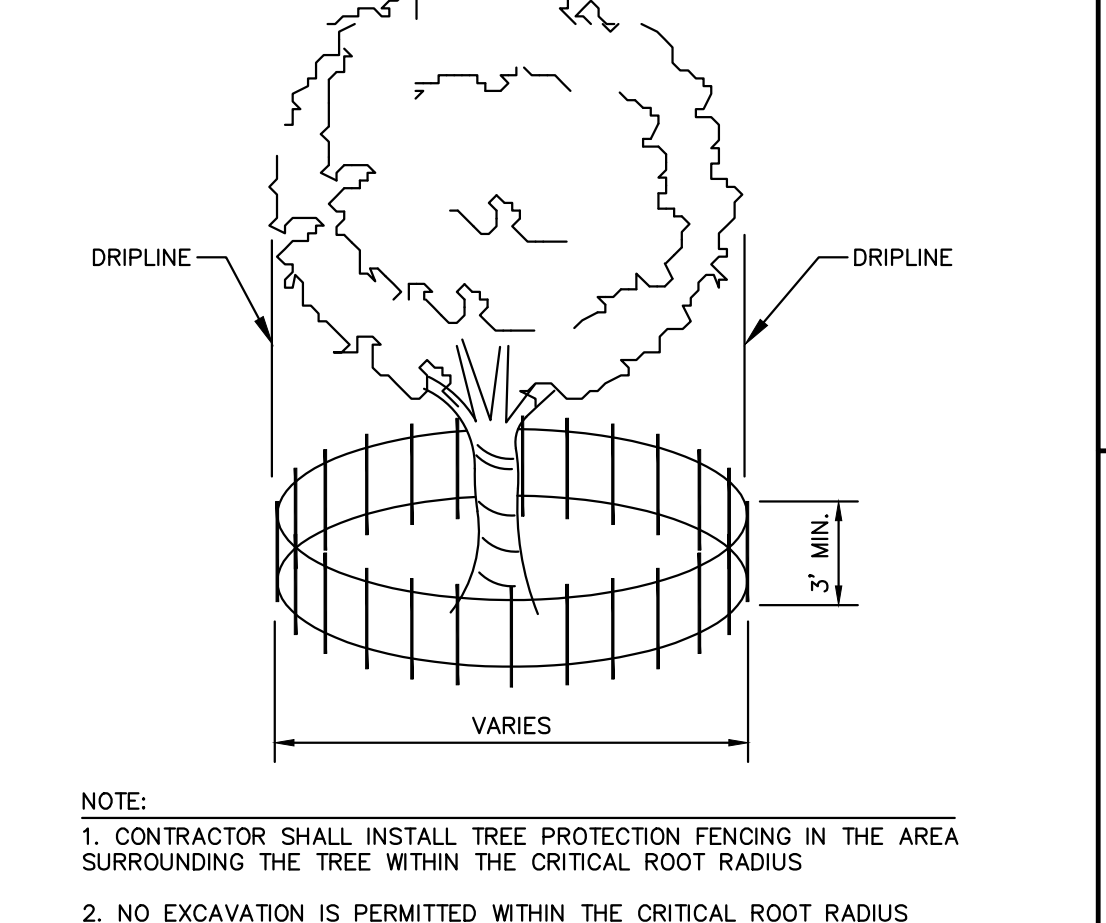
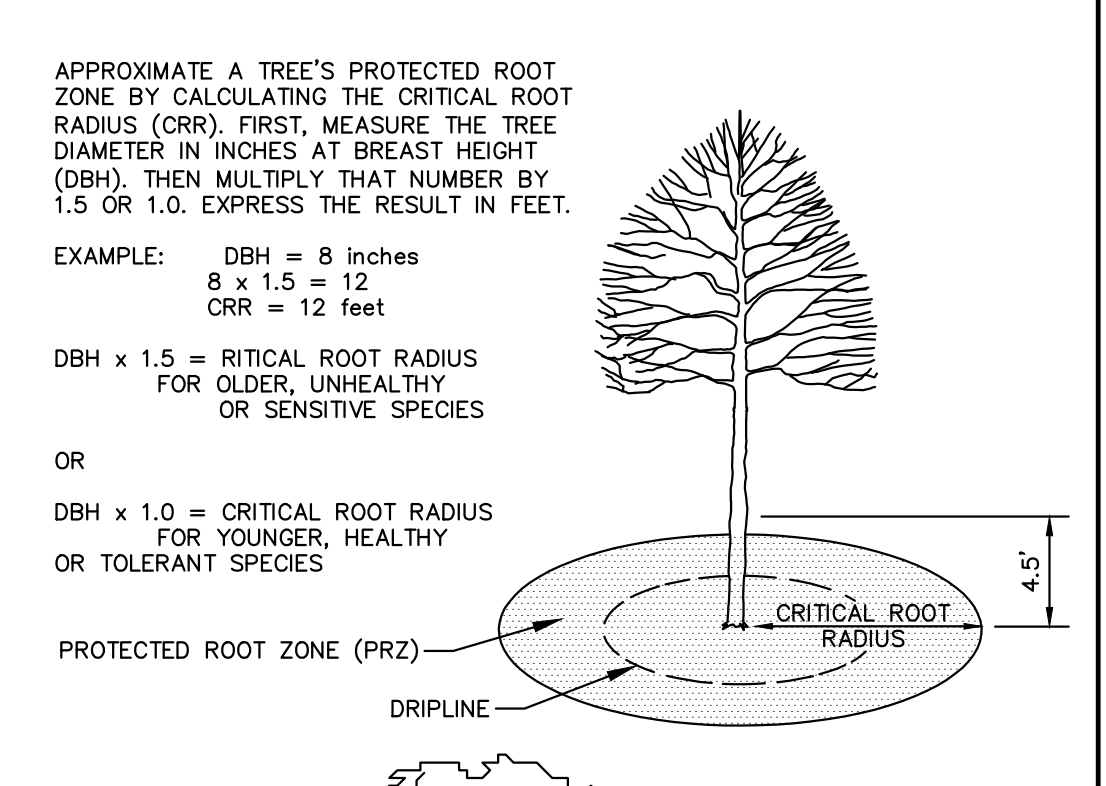
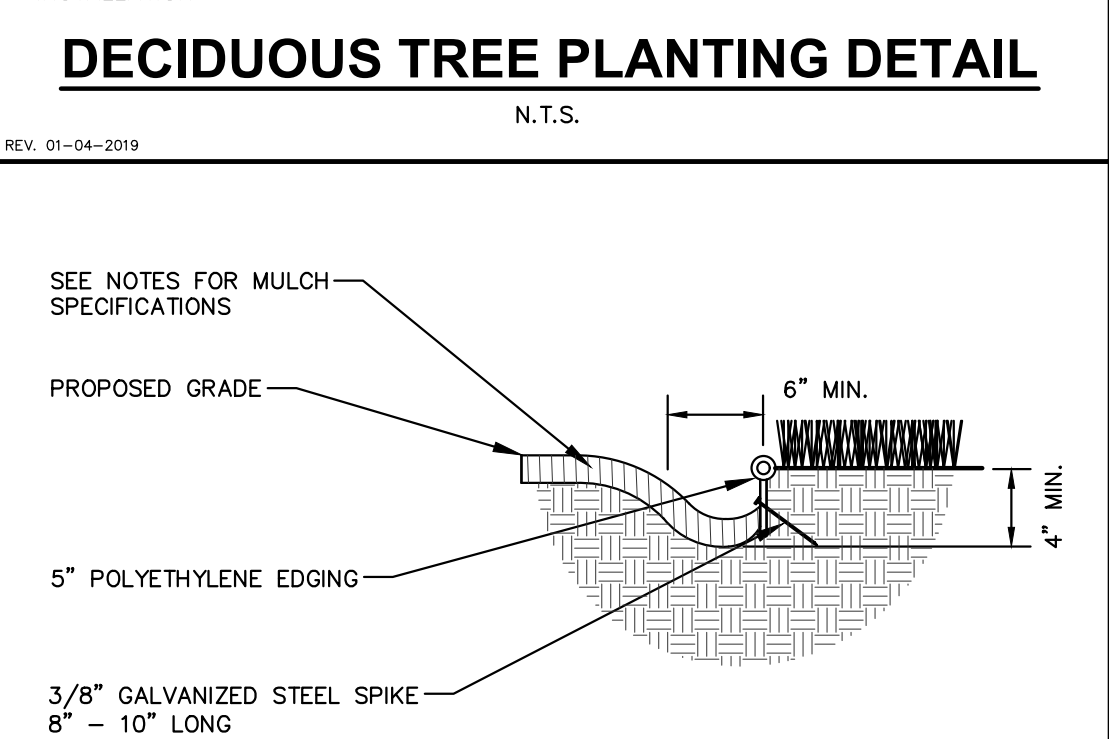
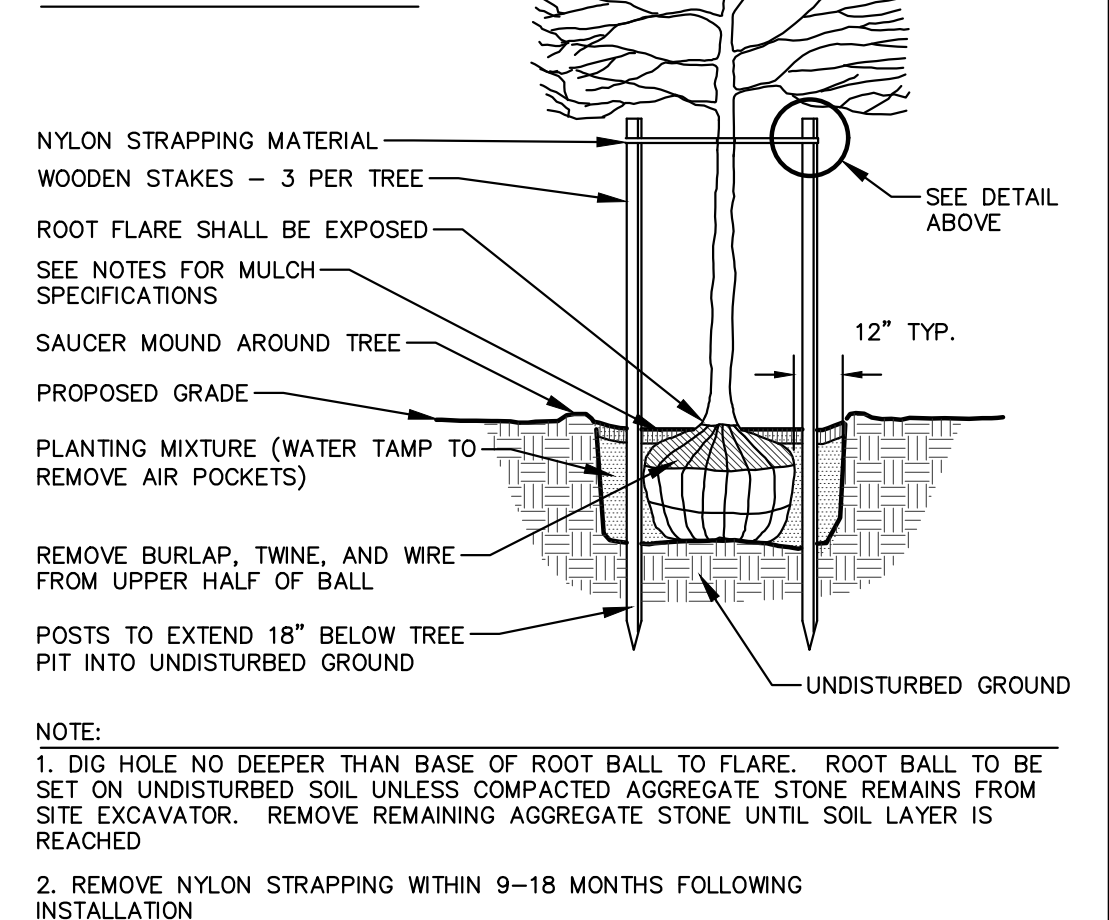
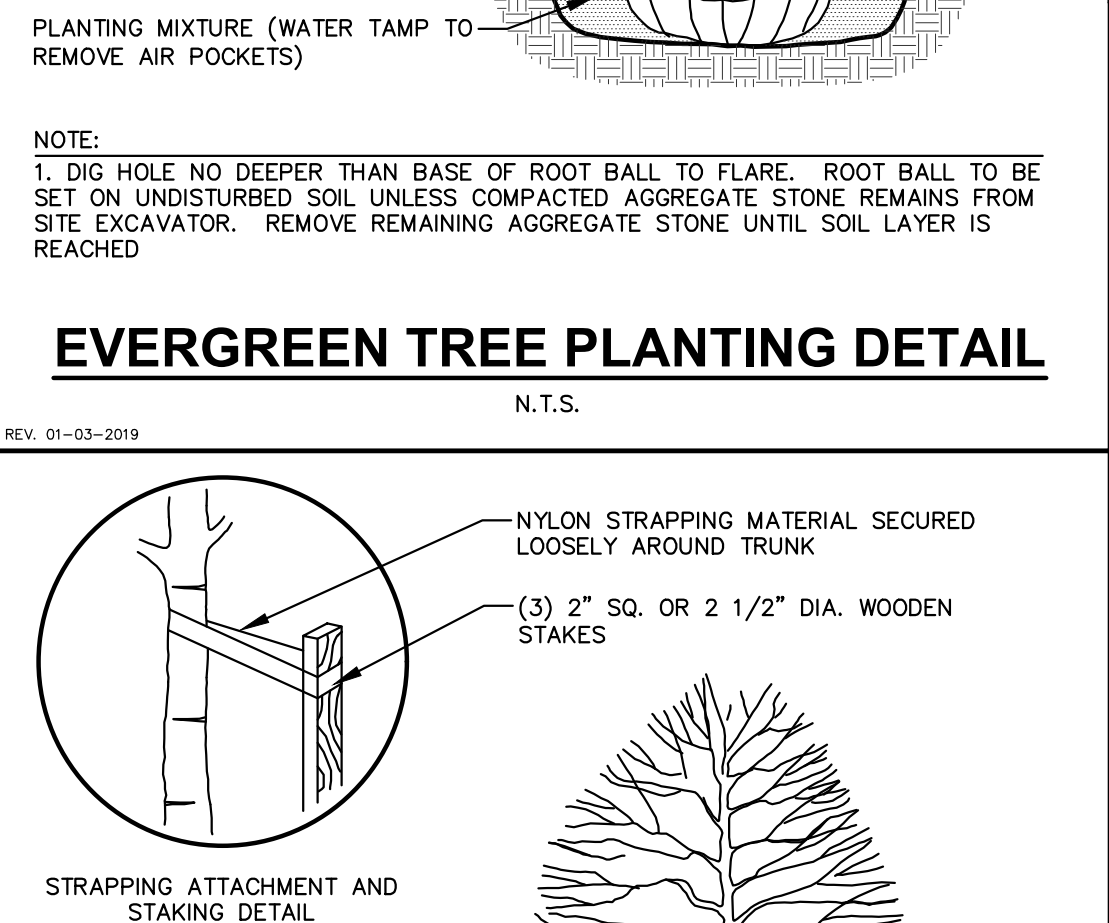
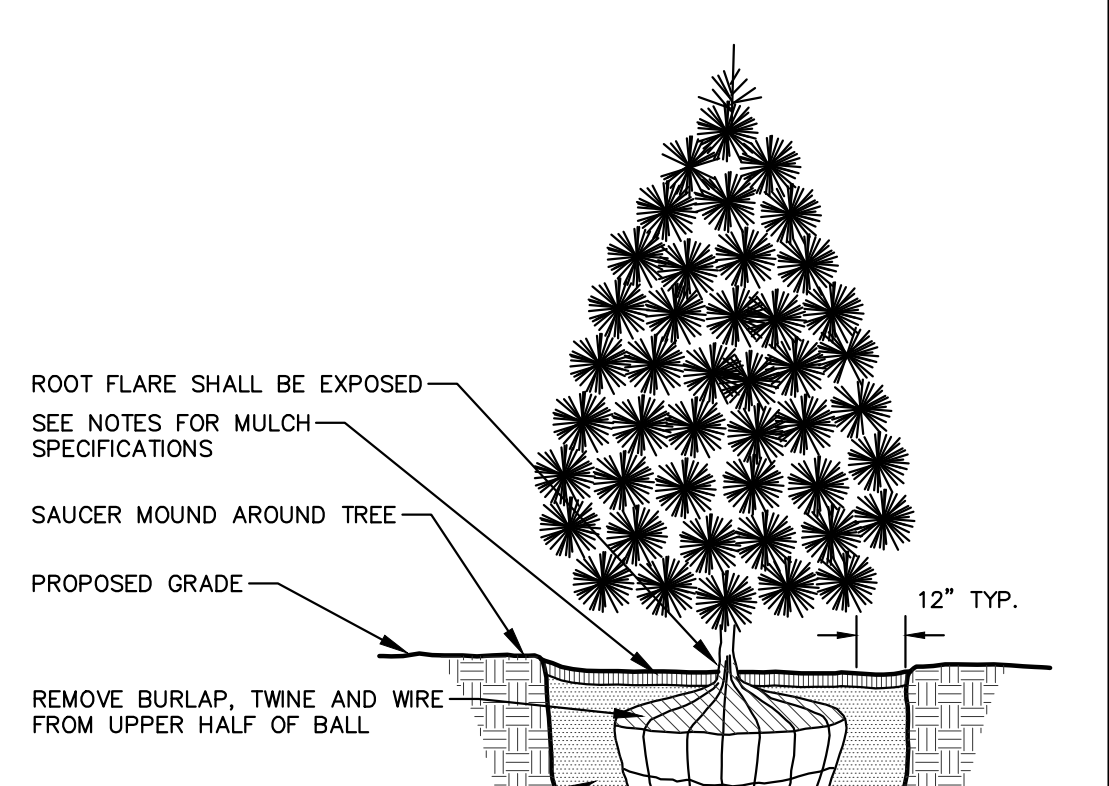
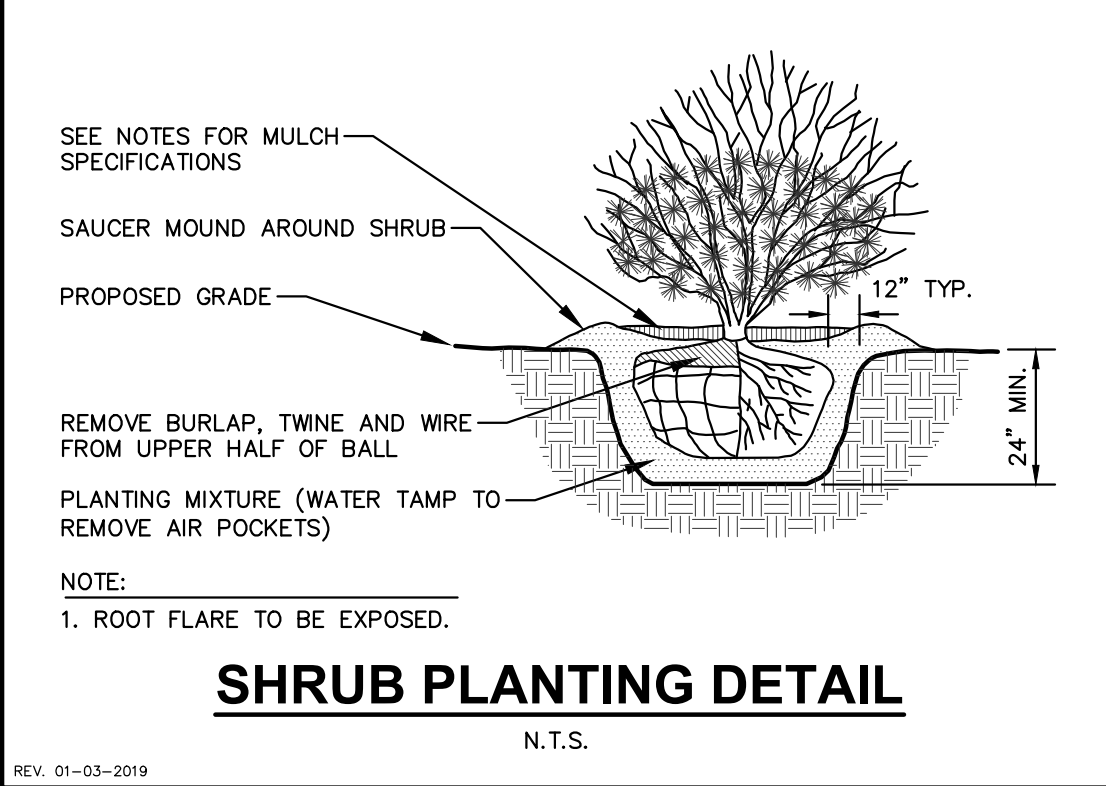
- MATERIALS - PLANTING MIXTURE:** ALL HOLES EXCAVATED FOR TREES, SHRUBS, PERENNIALS AND ORNAMENTAL GRASSES SHALL BE BACKFILLED WITH TWO (2) PARTS TOPSOIL, ONE (1) PART SAND AND ONE (1) PART COMPOST. SOIL MIXTURE SHALL BE WELL BLENDED PRIOR TO INSTALLATION.
- MATERIALS - TOPSOIL:** TOPSOIL TO BE CLEAN, FRIABLE LOAM FROM A LOCAL SOURCE, FREE FROM STONES OR DEBRIS OVER 3/4" IN DIAMETER, AND FREE FROM TOXINS OR OTHER DELETERIOUS MATERIALS. TOPSOIL SHALL HAVE A pH VALUE BETWEEN 6 AND 7. TOPSOIL AND PLANTING SOIL SHALL BE TESTED TO ENSURE CONFORMANCE WITH THESE SPECIFICATIONS AND SHALL BE AMENDED TO MEET THESE SPECIFICATIONS. PROVIDE TEST RESULTS TO OWNER'S REPRESENTATIVE PRIOR TO PLACEMENT. DO NOT PLACE FROZEN OR MUDDY TOPSOIL. APPLY SOIL AMENDMENTS TO ALL LANDSCAPE AREAS PER SOIL TEST.
- MATERIALS - SHREDDED HARDWOOD BARK MULCH:** ALL PLANTING AREAS LABELED ON PLAN SHALL RECEIVE CERTIFIED WEED FREE SHREDDED HARDWOOD BARK MULCH INSTALLED TO A MINIMUM AND CONSISTENT DEPTH OF 4-INCHES. SHREDDED HARDWOOD BARK MULCH SIZE & COLOR TO BE APPROVED BY OWNER'S REPRESENTATIVE PRIOR TO INSTALLATION. FERTILIZER SHALL BE IN ACCORDANCE WITH APPLICABLE LOCAL, COUNTY AND STATE REQUIREMENTS. SHREDDED HARDWOOD BARK MULCH AREAS SHALL NOT RECEIVE WOVEN WEED BARRIER FABRIC.
- MATERIALS - STONE MULCH:** ALL PLANTING AREAS LABELED ON PLAN SHALL RECEIVE MIDWEST DECORATIVE STONE 1-1/2" AMERICAN HERITAGE STONE MULCH (OR EQUAL) SPREAD TO A MINIMUM AND CONSISTENT DEPTH OF 3-INCHES. DECORATIVE STONE MULCH TYPE, SIZE & COLOR TO BE APPROVED BY OWNER'S REPRESENTATIVE PRIOR TO INSTALLATION. FERTILIZER SHALL BE IN ACCORDANCE WITH APPLICABLE LOCAL, COUNTY AND STATE REQUIREMENTS. STONE MULCH AREAS SHALL RECEIVE WOVEN WEED BARRIER FABRIC. NO PLASTIC/IMPERVIOUS BARRIERS WILL BE PERMITTED, EXAMPLE: BLACK VISQUEEN.
- MATERIALS - TREE & SHRUB RINGS:**
 - DECIDUOUS AND EVERGREEN TREES PLANTED IN SEEDING OR SODDED LAWN AREAS SHALL BE INSTALLED WITH A MINIMUM 4" DIAMETER SHREDDED HARDWOOD BARK MULCH TREE RING SPREAD TO A CONSISTENT DEPTH OF 4-INCHES. A PRE-EMERGENT GRANULAR HERBICIDE WEED-PREVENTER SHALL BE MIXED WITH MULCH ALONG WITH A TOPICALLY APPLIED TO COMPLETED INSTALLATION OF TREE RING.
 - ALL SHRUBS PLANTED IN PRAIRIE SEED MIX AREAS SHALL BE INSTALLED WITH A MINIMUM 2" DIAMETER SHREDDED HARDWOOD BARK MULCH TREE RING SPREAD TO A CONSISTENT DEPTH OF 4-INCHES. A PRE-EMERGENT GRANULAR HERBICIDE WEED-PREVENTER SHALL BE MIXED WITH MULCH ALONG WITH A TOPICALLY APPLIED TO COMPLETED INSTALLATION OF TREE RING.
 - TREE AND SHRUB RINGS SHALL BE INSTALLED WITH A 5" DEPTH VERTICAL SHOVEL CUT EDGE IN THE DIAMETER SPECIFIED.
- MATERIALS - POLYETHYLENE EDGING:** EDGING SHALL BE 5" DEEP, POLYETHYLENE EDGING. OWNER'S REPRESENTATIVE SHALL APPROVE PRODUCT SPECIFICATION PROVIDED BY LANDSCAPE CONTRACTOR.
- MATERIALS - ALUMINUM EDGING:** EDGING SHALL BE 1/8" X 4", ALUMINUM EDGING, MILL FINISH. OWNER'S REPRESENTATIVE SHALL APPROVE PRODUCT SPECIFICATION PROVIDED BY LANDSCAPE CONTRACTOR.
- MATERIALS - TREE PROTECTION:** ALL TREES TO BE INSTALLED WITH LDPE TREE GUARDS AS MANUFACTURED BY A.M. LEONARD HORTICULTURAL TOOL & SUPPLY CO., OR APPROVED EQUAL.

SEEDING & POND VEGETATION NOTES

- MATERIALS - TURFGRASS SEED:** DISTURBED LAWN AREAS LABELED ON PLAN AS SUCH, SHALL RECEIVE 6" OF TOPSOIL AND EARTH CARPET'S "MADISON PARKS" GRASS SEED, OR EQUIVALENT AS APPROVED BY THE OWNER'S REPRESENTATIVE. INSTALLED PER MANUFACTURER'S RECOMMENDATIONS. IN ADDITION TO TURFGRASS SEED, ANNUAL RYE SHALL BE APPLIED TO ALL DISTURBED AREAS AT A RATE OF 1 1/2 LBS PER 1000 SQUARE FEET. FERTILIZE AND MULCH PER MANUFACTURER'S RECOMMENDATIONS. MULCH SHALL BE CERTIFIED NOXIOUS WEED SEED-FREE.
- MATERIALS - PRAIRIE SEED MIX:** DISTURBED LAWN AREAS LABELED ON PLAN AS SUCH, SHALL BE BROADCAST SEEDING WITH "DIVERSE PRAIRIE FOR MEDIUM SOILS" SEED MIX, AS PROVIDED BY PRAIRIE NURSERY, P.O. BOX 306, WESTFIELD, WISCONSIN, 53964, TEL. 608-296-3679 (OR APPROVED EQUIVALENT). INSTALL SEED WITH SUPPLEMENTAL MATERIALS AND AMENDMENTS AS RECOMMENDED BY SEED SUPPLIER AND AT RATES AND OPTIMUM TIMES OF THE YEAR AS RECOMMENDED BY THE SEED SUPPLIER TO ENSURE SUCCESSFUL GERMINATION AND SEED/ROOT ZONE GROWTH DEVELOPMENT. REFER TO PRODUCT SPECIFICATIONS AND MANUFACTURER'S RECOMMENDATIONS FOR INSTALLATION.
- MATERIALS - BIORETENTION BASIN NATIVE VEGETATIVE MAT (NVM):** AREAS SPECIFIED ON PLANS SHALL RECEIVE AGRECOL "RAINWATER RENOVATION" NATIVE VEGETATIVE MAT - DEGRADABLE CORE. CONTRACTOR SHALL CONTACT AGRECOL NATIVE NURSERY 16 WEEKS IN ADVANCE OF INSTALLATION FOR PROPER GROWING LEAD TIME. CONTRACTOR SHALL ASSUME AVAILABLE DELIVERY DATE TO BE BETWEEN MID-JUNE THROUGH THE END OF OCTOBER DUE TO THE NVM GROWING SEASON. REFER TO PRODUCT SPECIFICATIONS AND MANUFACTURER'S RECOMMENDATIONS FOR INSTALLATION PROCEDURES.



Toll Free (800) 242-8511

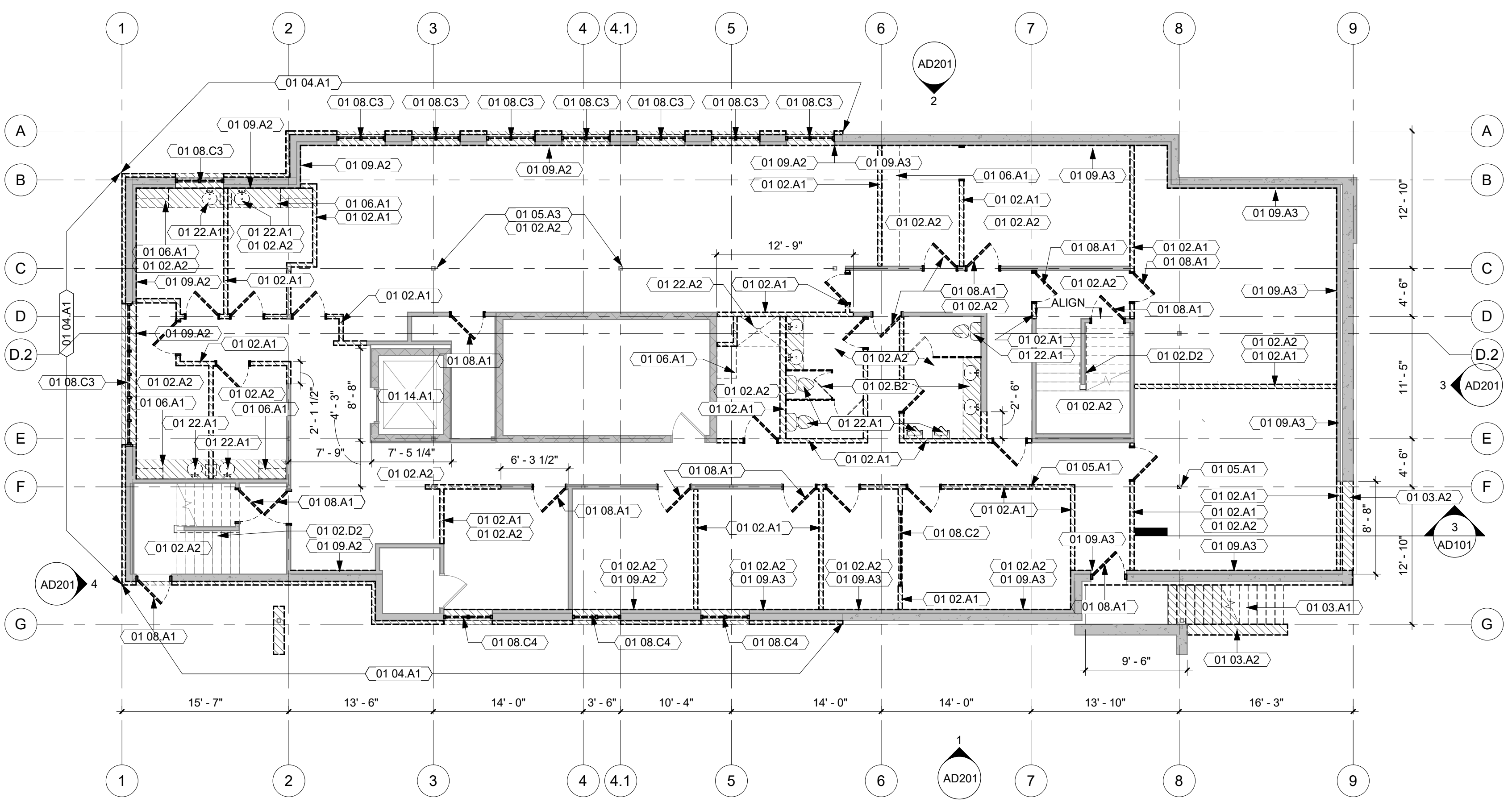


KEYNOTE LEGEND

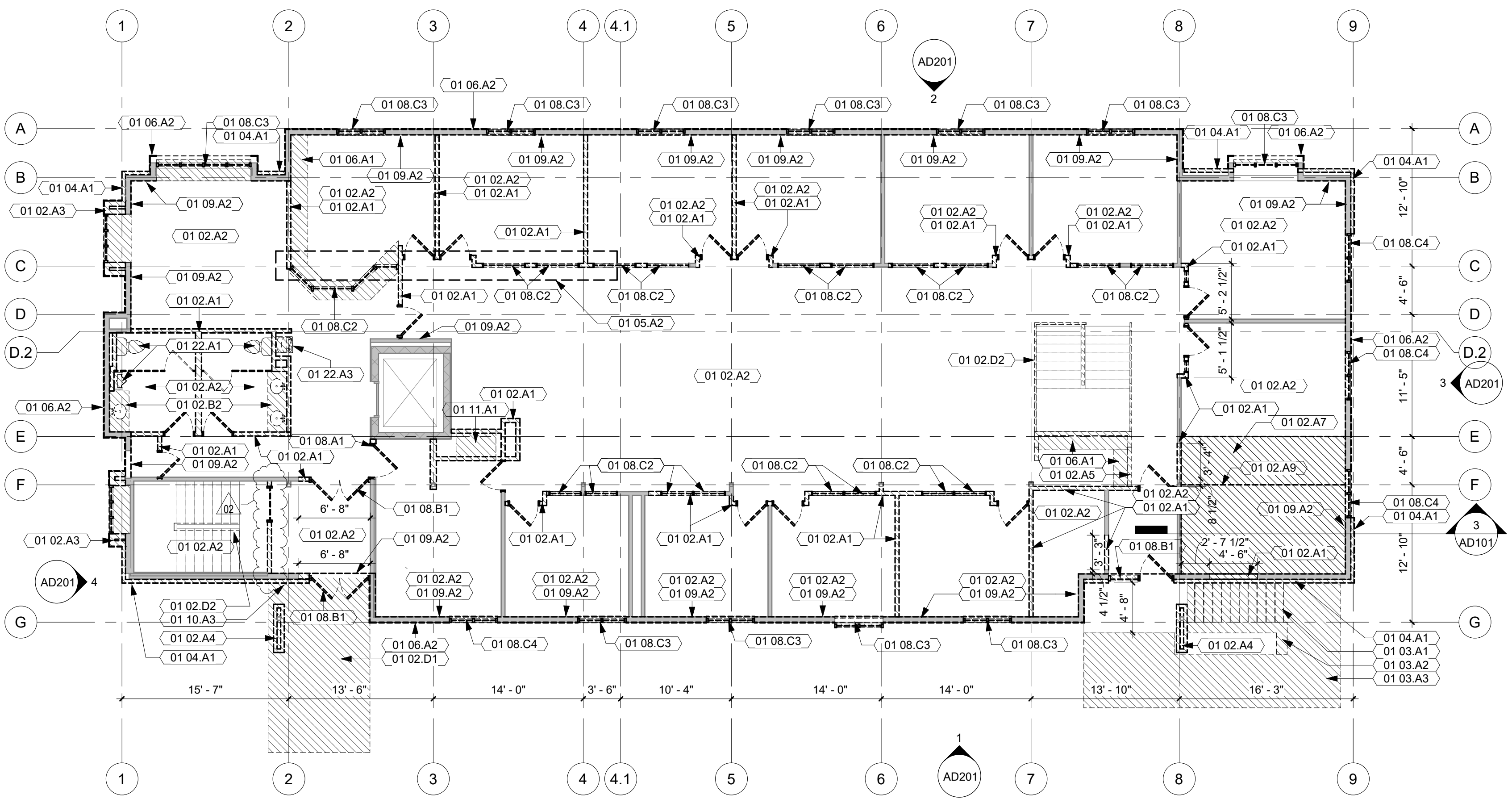
- 01 02.A1 REMOVE GYP BD COVERED WOOD FRAMED WALLS AND ASSOCIATED DOORS, FRAMES AND FINISHES
- 01 02.A2 REMOVE FLOOR FINISH THIS ROOM COMPLETE. PREP TO RECEIVE NEW FINISH. REMOVE ALL GYP BD AND APPLIED WALL FINISHES AT EXISTING WALLS TO REMAIN. PREP FOR NEW FINISHES
- 01 02.A3 DEMO AND REMOVE EXTERIOR BUMP-OUT AND BAY WINDOW COMPLETE.
- 01 02.A4 DEMO AND REMOVE EXISTING MASONRY AND FRAMING COMPLETE - MAINTAIN EXISTING STRUCTURAL SUPPORT FOR ROOF
- 01 02.A5 DEMO AND REMOVE PORTION OF KNEE WALL COMPLETE.
- 01 02.A7 REFER TO STRUCTURAL FOR SEQUENCING OF AND REPLACEMENT REQUIREMENTS FOR DEMO OF FLOOR FRAMING AND REMOVAL OF STEEL BEAM
- 01 02.A8 REMOVE STEEL COLUMN @ GRID F FOR NEW FLOOR FRAMING. REFER TO STRUCTURAL DEMO DRAWINGS
- 01 02.A9 REMOVE STEEL BEAM @ GRID F FOR NEW FLOOR FRAMING. REFER TO STRUCTURAL DEMO DRAWINGS
- 01 02.B1 REMOVE LAVATORIES, MIRRORS, TOILET PARTITIONS, AND TOILET ACCESSORIES.
- 01 02.C1 REMOVE CEILING COMPLETE.
- 01 02.D1 DEMO AND REMOVE EXTERIOR BRIDGE COMPLETE INCLUDING CONCRETE PIER SUPPORT AND GUARDRAILS
- 01 02.D2 REMOVE WOOD GUARDRAILS AND HANDRAILS COMPLETE.
- 01 03.A1 REMOVE CONCRETE EXTERIOR STAIR COMPLETE
- 01 03.A2 SAW CUT AND REMOVE PORTION OF CONCRETE FOUNDATION WALL
- 01 03.A3 DEMO AND REMOVE PORTION OF EXTERIOR SIDEWALK COMPLETE - REFER TO CIVIL DRAWINGS.
- 01 04.A1 DEMO AND REMOVE EXTERIOR STONE VENEER AND RIGID INSULATION BOARD COMPLETE (TYP)
- 01 05.A1 REMOVE COLUMN COMPLETE. REFER TO STRUCTURAL DRAWINGS FOR NEW STRUCTURAL SUPPORT TRANSFER BEAM AND COLUMNS
- 01 05.A2 DO NOT REMOVE BEARING WALL UNTIL PROPERLY SHORED FOR NEW STRUCTURE TO BE PLACED. REFER TO STRUCTURAL
- 01 05.A3 REFER TO STRUCTURAL FOR FLOOR, COLUMN AND BEAM RE-WORK.
- 01 06.A1 DEMO AND REMOVE CASEWORK COMPLETE.
- 01 06.A2 DEMO AND REMOVE EXTERIOR WOOD SIDING AND RIGID INSULATION BOARD COMPLETE (TYP)
- 01 08.B1 REMOVE STOREFRONT ENTRY SYSTEM COMPLETE.
- 01 08.C1 DEMO AND REMOVE INTERIOR WINDOW AND ASSOCIATED TRIM COMPLETE.
- 01 08.C3 DEMO AND REMOVE WINDOW AND ASSOCIATED INTERIOR TRIM AND SILL COMPLETE. OPENING TO RECEIVE NEW WINDOW.
- 01 08.C4 DEMO AND REMOVE WINDOW AND ASSOCIATED INTERIOR TRIM AND SILL COMPLETE. OPENING TO BE FILLED WITH NEW WALL.
- 01 09.A2 REMOVE GYP BD, BATT INSULATION, AND VAPOR BARRIER COMPLETE FULL HEIGHT OF WALLS. WD FURRING TO REMAIN
- 01 09.A3 REMOVE EXISTING GWB INSULATION AND WD FURRING TO REMAIN.
- 01 10.A3 REMOVE EXISTING KNOX BOX AND KEY AND RETAIN FOR RE-INSTALLATION PRIOR TO END OF CONSTRUCTION
- 01 11.A1 DEMO AND REMOVE WALL SAFE COMPLETE.
- 01 14.A1 REMOVE FLOOR COVERING AND WALL PANELS COMPLETE IN ELEVATOR CAB AND PREP FOR REPLACEMENT
- 01 22.A1 DEMO AND REMOVE PLUMBING FIXTURE COMPLETE - REFER TO PLUMBING DRAWINGS
- 01 22.A2 DEMO AND REMOVE SHOWER UNIT COMPLETE.
- 01 22.A3 REMOVE WATER COOLER AND SALVAGE FOR REUSE.

GENERAL NOTES

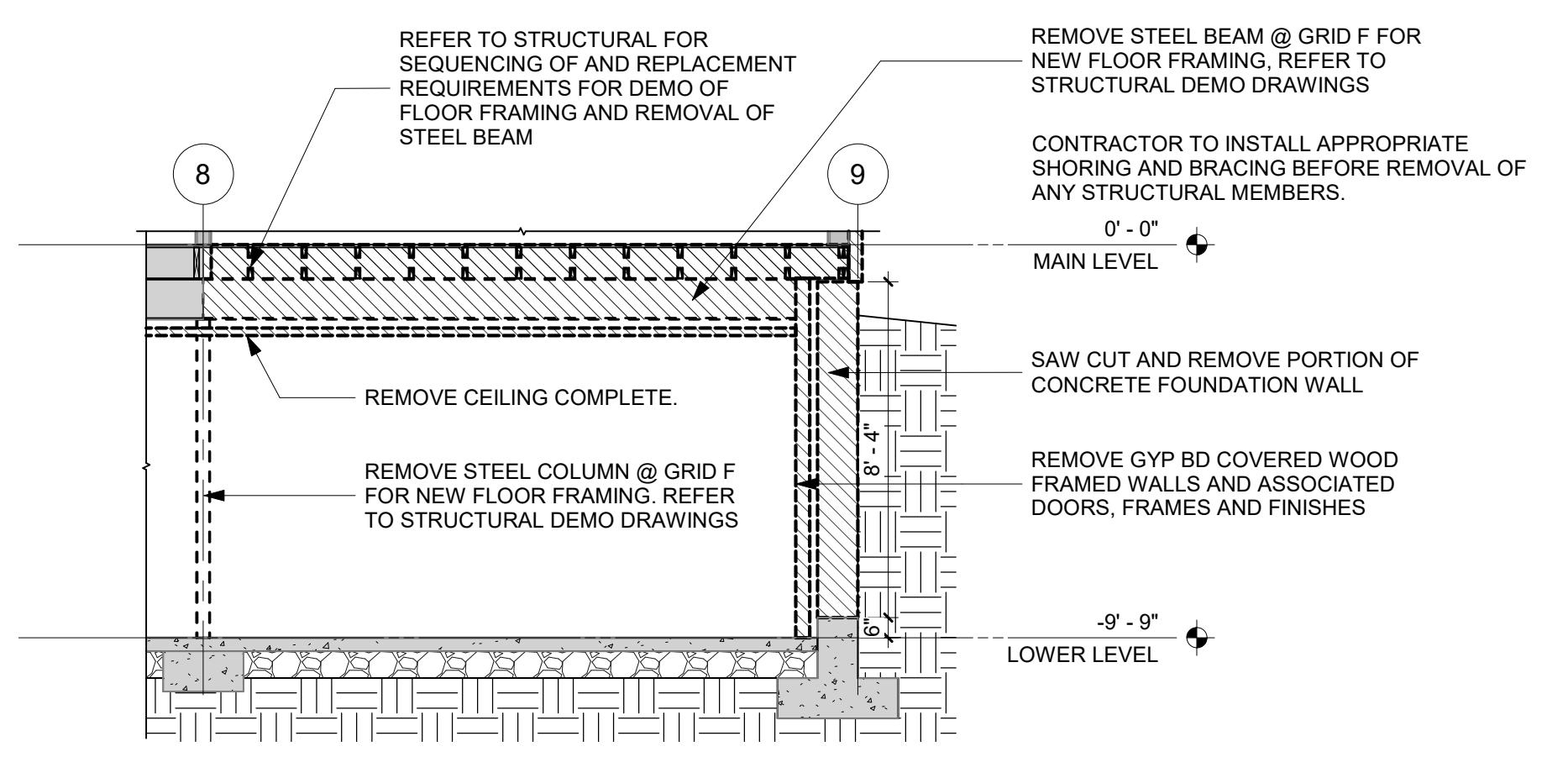
1. IDENTIFICATION AND/OR ABATEMENT OF HAZARDOUS MATERIALS IS NOT PART OF THIS SCOPE OF WORK. IF ASBESTOS OR OTHER HAZARDOUS MATERIALS ARE ENCOUNTERED, THE CONTRACTOR SHALL NOTIFY THE OWNER IMMEDIATELY.
2. REFER TO SPECIFICATION SECTION 01 74 19 FOR CONSTRUCTION WASTE MANAGEMENT, DISPOSAL AND RECYCLING REQUIREMENTS.
3. EXISTING BUILDING CONDITIONS SHOWN ON THESE DRAWINGS ARE DERIVED FROM DRAWINGS OF THE ORIGINAL BUILDING AND FROM LIMITED FIELD OBSERVATION. EXISTING BUILDING CONDITIONS ARE ASSUMED TO BE A GENERAL REPRESENTATION OF THE ACTUAL CONSTRUCTION OF THE BUILDING. SPECIFIC CONDITIONS MAY VARY.
4. CONTRACTOR TO FIELD VERIFY ALL EXISTING CONDITIONS. IN THE EVENT OF DISCREPANCIES BETWEEN THE DRAWINGS AND THE EXISTING CONDITIONS, NOTIFY THE ARCHITECT BEFORE PROCEEDING.
5. OPENING IN EXISTING CONSTRUCTION SMALLER THAN 12" IN ANY DIRECTION ARE NOT IDENTIFIED ON THESE DRAWINGS. SUB-CONTRACTORS SHALL BE RESPONSIBLE FOR CREATING OPENINGS SMALLER THAN 12" AS REQUIRED FOR INSTALLATION OF THEIR WORK AND FOR PATCHING AND/OR FILLING RESULTING ANNULAR SPACES.
6. REPAIR AND REPLACE ANY DAMAGE TO EXISTING CONSTRUCTION RESULTING FROM DEMOLITION OR NEW CONSTRUCTION WORK. CONTRACTOR WILL BE RESPONSIBLE FOR INSTALLING TEMPORARY PROTECTION AS REQUIRED CONSTRUCTION SEQUENCING AND / OR BY WEATHER CONDITIONS.
7. CONTRACTOR SHALL BE RESPONSIBLE FOR BUILDING AND SITE SECURITY AGAINST THEFT AND VANDALISM.
8. PROTECT ALL ADJACENT AREAS AND ITEMS "TO REMAIN" DURING DEMOLITION OR NEW CONSTRUCTION. REPAIR OR REPLACE ALL ITEMS DAMAGED DURING CONSTRUCTION.
9. REMOVE MISCELLANEOUS LOOSE-HANGING OR ATTACHED OBJECTS FROM WALLS AND CEILINGS AT ALL AREAS TO RECEIVE NEW FINISHES.
10. THE CONTRACTOR SHALL PROVIDE AND MAINTAIN ADDITIONAL MEANS OF EGRESS AS NEEDED AS A RESULT OF CONSTRUCTION SEQUENCING AND / OR REGULATORY REQUIREMENTS.



1 DEMO PLAN - LOWER LEVEL
1/8" = 1'-0"



2 DEMO PLAN - MAIN LEVEL
1/8" = 1'-0"



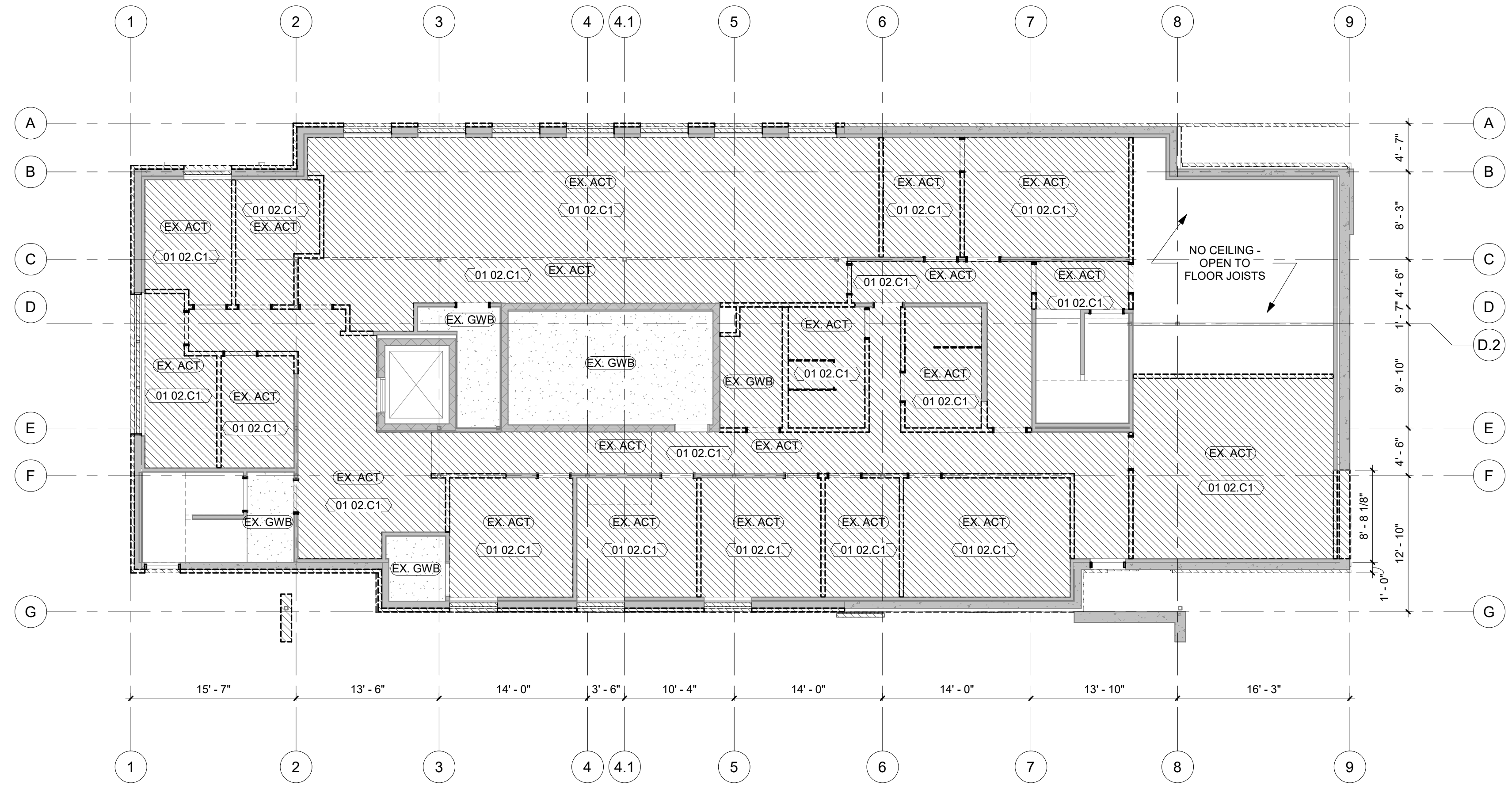
3 DEMO WALL SECTION
1/4" = 1'-0" Ref. 1/ AD101

GENERAL NOTES

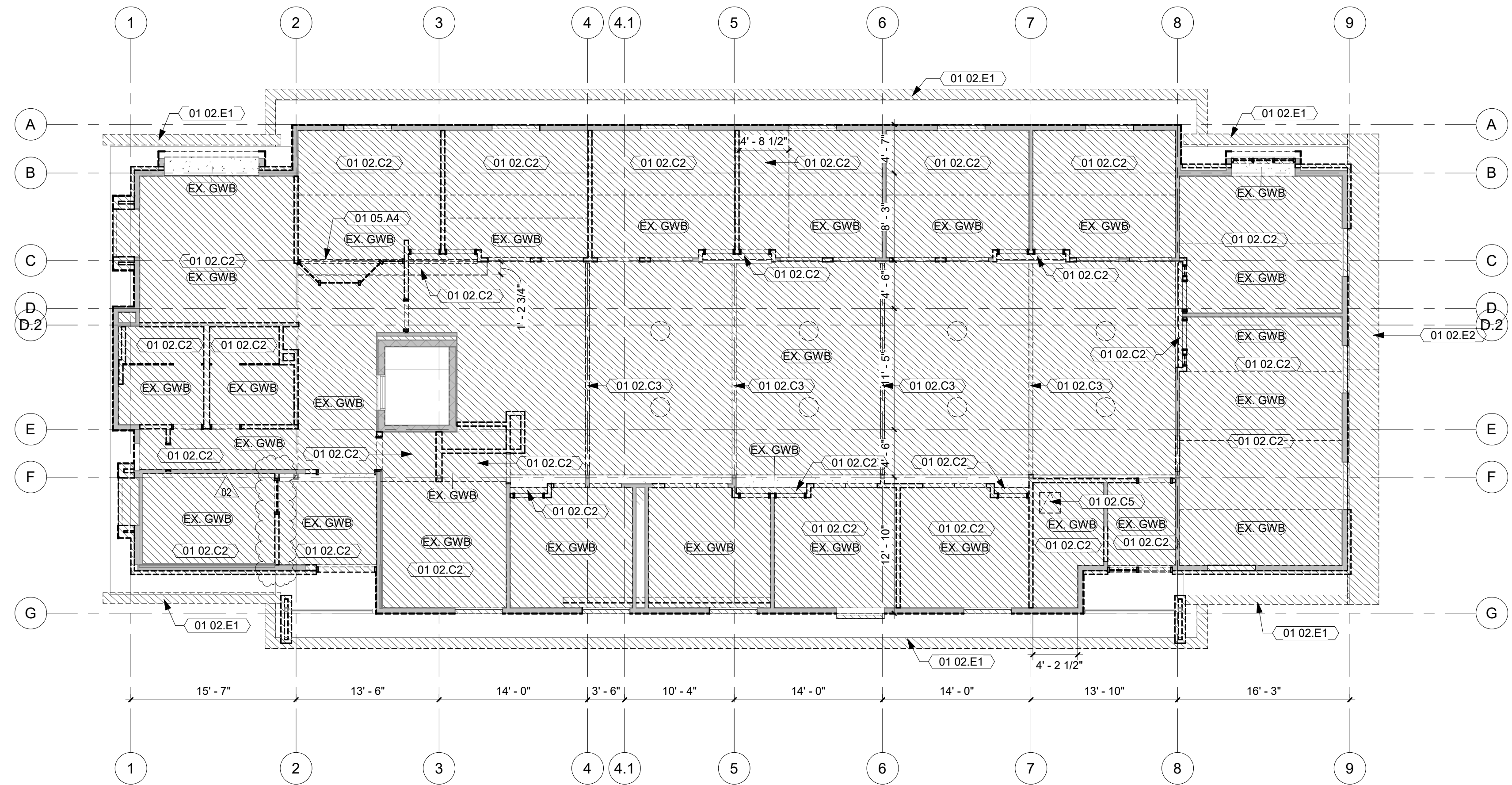
- IDENTIFICATION AND/OR ABATEMENT OF HAZARDOUS MATERIALS IS NOT PART OF THIS SCOPE OF WORK. IF ASBESTOS OR OTHER HAZARDOUS MATERIALS ARE ENCOUNTERED, THE CONTRACTOR SHALL NOTIFY THE OWNER IMMEDIATELY.
- REFER TO SPECIFICATION SECTION 01 74 19 FOR CONSTRUCTION WASTE MANAGEMENT, DISPOSAL AND RECYCLING REQUIREMENTS.
- EXISTING BUILDING CONDITIONS SHOWN ON THESE DRAWINGS ARE DERIVED FROM DRAWINGS OF THE ORIGINAL BUILDING AND FROM LIMITED FIELD OBSERVATION. EXISTING BUILDING CONDITIONS ARE ASSUMED TO BE A GENERAL REPRESENTATION OF THE ACTUAL CONSTRUCTION OF THE BUILDING. SPECIFIC CONDITIONS MAY VARY.
- CONTRACTOR TO FIELD VERIFY ALL EXISTING CONDITIONS. IN THE EVENT OF DISCREPANCIES BETWEEN THE DRAWINGS AND THE EXISTING CONDITIONS, NOTIFY THE ARCHITECT BEFORE PROCEEDING.
- DO NOT REMOVE ANY ITEMS WHICH JEOPARDIZE THE STRUCTURAL INTEGRITY OF THE BUILDING. IF HIDDEN ELEMENTS OR DETERIORATED ELEMENTS ARE ENCOUNTERED, NOTIFY THE ARCHITECT IMMEDIATELY.
- MODIFICATIONS TO THE EXISTING STRUCTURE SHALL NOT BE MADE WITHOUT PRIOR APPROVAL OF THE STRUCTURAL ENGINEER.
- OPENING IN EXISTING CONSTRUCTION SMALLER THAN 12" IN ANY DIRECTION ARE NOT IDENTIFIED ON THESE DRAWINGS. SUB-CONTRACTORS SHALL BE RESPONSIBLE FOR CREATING OPENINGS SMALLER THAN 12" AS REQUIRED FOR INSTALLATION OF THEIR WORK AND FOR PATCHING AND/OR FILLING RESULTING ANNULAR SPACES.
- REPAIR AND REPLACE ANY DAMAGE TO EXISTING ONSTRUCTION RESULTING FROM DEMOLITION OR NEW CONSTRUCTION WORK. REFER TO CONSULTANT DRAWINGS FOR ADDITIONAL DEMOLITION OF OTHER DISCIPLINES.
- REPAIR ALL DAMAGE RESULTING FROM MECHANICAL AND ELECTRICAL SYSTEMS DEMOLITION.
- EXISTING BUILDING TO REMAIN WEATHER-TIGHT DURING ALL DEMOLITION AND NEW CONSTRUCTION ACTIVITIES. CONTRACTOR WILL BE RESPONSIBLE FOR INSTALLING TEMPORARY PROTECTION AS REQUIRED CONSTRUCTION SEQUENCING AND / OR BY WEATHER CONDITIONS.
- CONTRACTOR SHALL BE RESPONSIBLE FOR BUILDING AND SITE SECURITY AGAINST THEFT AND VANDALISM.
- PROTECT ALL ADJACENT AREAS AND ITEMS TO REMAIN DURING DEMOLITION OR NEW CONSTRUCTION. REPAIR OR REPLACE ALL ITEMS DAMAGED DURING CONSTRUCTION.
- REMOVE MISCELLANEOUS LOOSE-HANGING OR ATTACHED OBJECTS FROM WALLS AND CEILINGS AT ALL AREAS TO RECEIVE NEW FINISHES.
- THE CONTRACTOR SHALL PROVIDE AND MAINTAIN ADDITIONAL MEANS OF EGRESS AS NEEDED AS A RESULT OF CONSTRUCTION SEQUENCING AND / OR REGULATORY REQUIREMENTS.

KEYNOTE LEGEND

- 01 02.C1 REMOVE CEILING COMPLETE.
- 01 02.C2 REMOVE GWB CEILING IN AREA SHOWN FOR NEW CEILING, VAPOR BARRIER, AND ATTIC INSULATION AS REQUIRED.
- 01 02.C3 DEMO AND REMOVE NON-STRUCTURAL DECORATIVE WOOD TRUSSES AND TRUSS-MOUNTED LIGHT FIXTURE COMPLETE.
- 01 02.C5 DEMO EXISTING ATTIC ACCESS HATCH
- 01 02.E1 REMOVE WOOD SOFFIT AND FASCIA COMPLETE AND CUT BACK ROOF EAVE FROM 45-0" TO 2-0"
- 01 02.E2 REMOVE ROOF OVERHANG TO FACE OF FRAMING AT ADDITION
- 01 05.A4 FIELD VERIFY EXISTING BEAM, SHORE ROOF STRUCTURE AND REPLACE PER STRUCTURAL



1 DEMO REFLECTED CEILING PLAN - LOWER LEVEL
1/8" = 1'-0"



2 DEMO REFLECTED CEILING PLAN - MAIN LEVEL
1/8" = 1'-0"

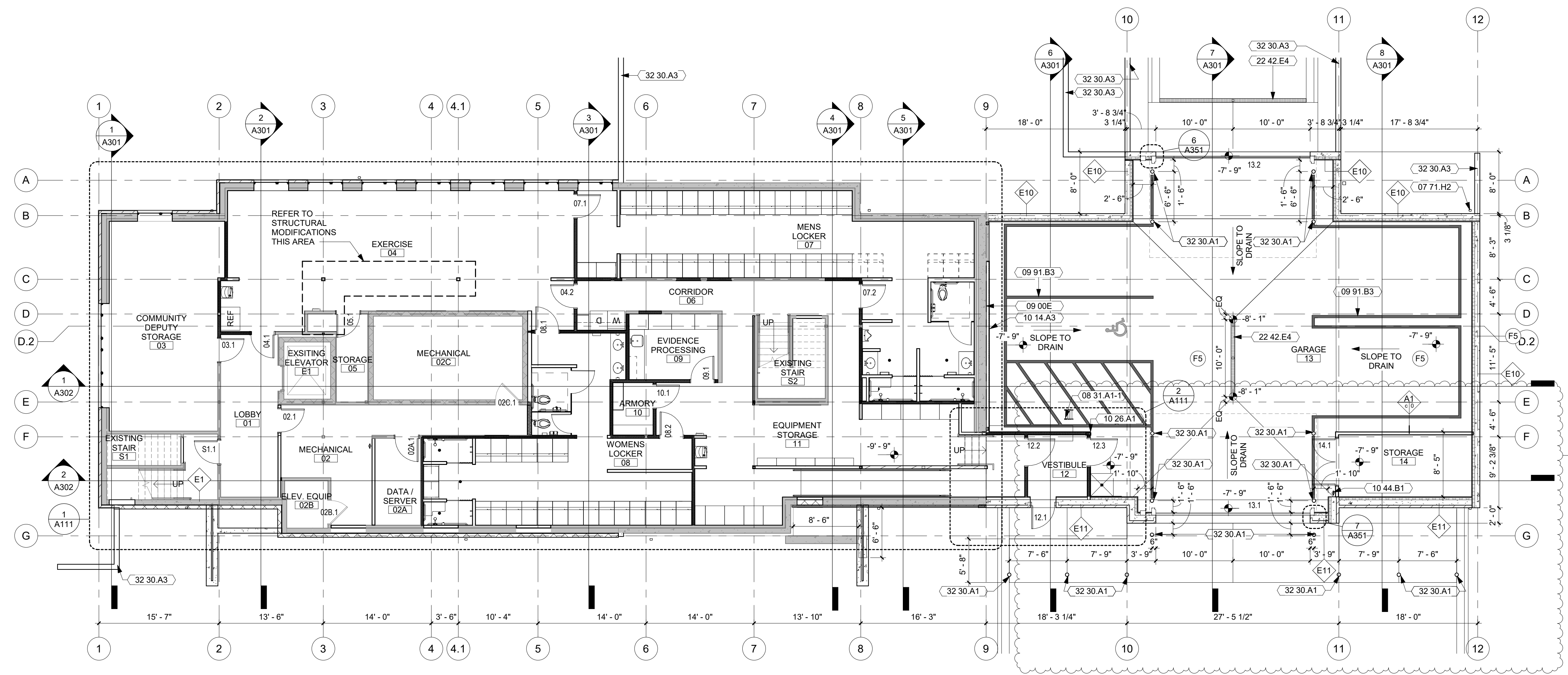
GENERAL NOTES

- DIMENSIONS ARE MEASURED FACE-OF-FINISH TO FACE-OF-FINISH OR ROUGH MASONRY OPENING UNLESS NOTED OTHERWISE - TYPICAL FOR ALL DRAWINGS.
- FIELD VERIFY ALL DIMENSIONS AND EXISTING CONDITIONS - TYPICAL FOR ALL DRAWINGS.
- IN THE EVENT OF A DISCREPANCY BETWEEN ARCHITECTURAL AND CONSULTANT DRAWINGS, NOTIFY ARCHITECT IMMEDIATELY PRIOR TO COMMENCING WORK - TYPICAL FOR ALL DRAWINGS.
- ALL PENETRATIONS IN FIRE RATED FLOORS AND WALLS MUST BE SEALED WITH APPROPRIATE FIRESTOPPING SYSTEM.
- PATCH AND REPAIR EXISTING FLOOR SLABS AND WALL SURFACES DAMAGED FROM DEMOLITION.

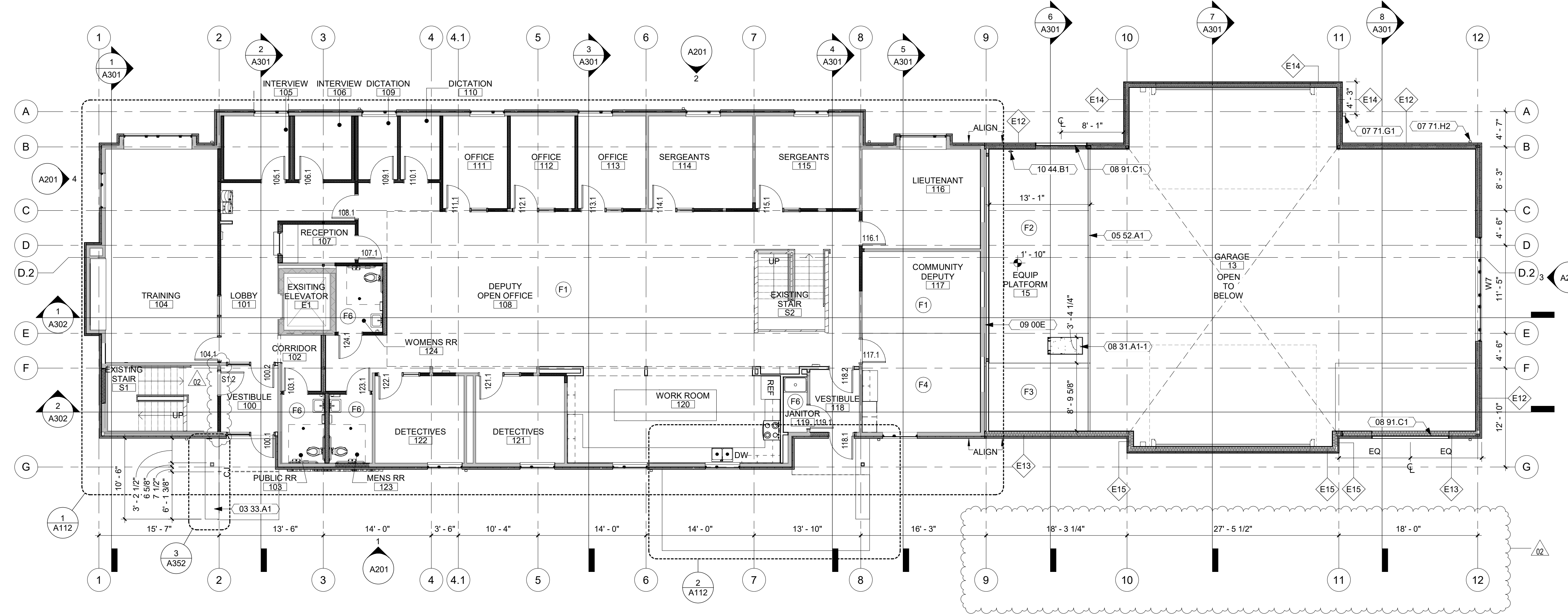
- EXISTING WOOD FRAMED WALLS
- EXISTING CMU WALLS
- NEW WOOD FRAMED WALLS - NO BATT
- NEW WOOD FRAMED WALLS - ACOUSTIC
- NEW CONCRETE WALLS

KEYNOTE LEGEND

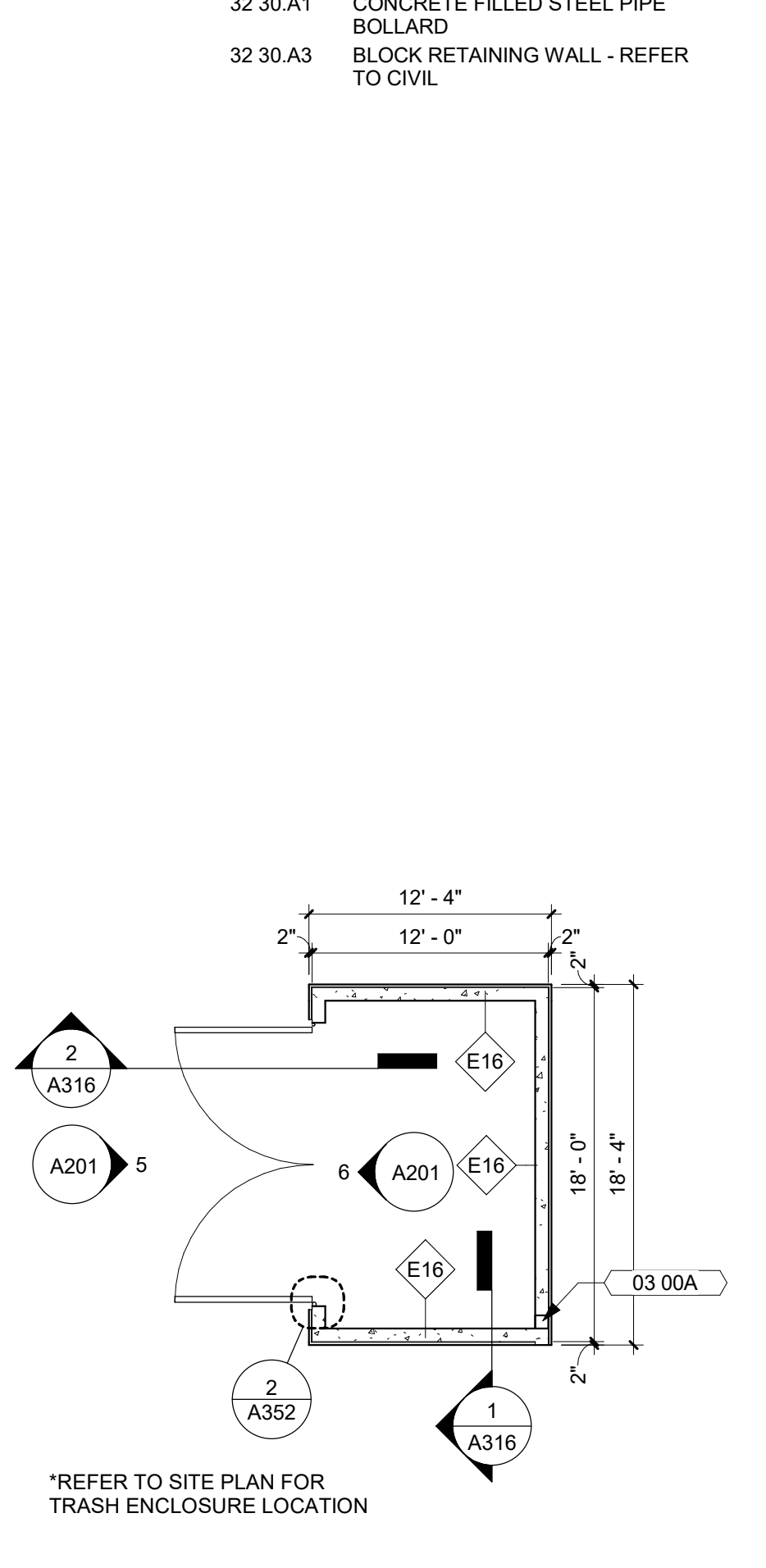
- 03 00A 4" X 8" W DRAINWAY OPENING AT BASE OF WALL
- 03 33.A1 POURED CONCRETE BENCH WITH WOOD TOP. INTEGRATED LIGHTING.
- 05 52.A1 CONTINUOUS STEEL GUARDRAIL ROOF SCUPPER & DOWNSPOUT. MATCH MP-3.
- 07 71.H2 PREFINISHED METAL DOWNSPOUT TO MATCH MP-3
- 08 31.A1-1 PULL-DOWN ALUMINUM ACCESS LADDER. COORDINATE EXACT LOCATION IN FIELD W/ ARCHITECT. REFER TO SPECS FOR TYPE AND LOCATION
- 08 91.C1 FIXED LOUVER - COORDINATE W/ MECHANICAL. MATCH FINISH OF MP-2
- 09 00E 1-HR RATED WALL ASSEMBLY - REFER TO WALL SECTIONS AND DETAILS
- 09 91.B3 PARKING LINE STRIPING
- 10 14.A3 ACCESSIBLE PARKING SIGN
- 10 26.A1 STAINLESS STEEL CORNER GUARD
- 10 44.B1 PORTABLE FIRE EXTINGUISHER
- 22 42.E4 TRENCH DRAIN - SLOPE PAVING TO DRAIN.
- 32 30.A1 CONCRETE FILLED STEEL PIPE BOLLARD
- 32 30.A3 BLOCK RETAINING WALL - REFER TO CIVIL



1 FLOOR PLAN - LOWER LEVEL
1/8" = 1'-0"



2 FLOOR PLAN - MAIN LEVEL
1/8" = 1'-0"



3 ENLARGED TRASH ENCLOSURE
1/8" = 1'-0"

Key Plan

Revision	Description	Date
2	ADDENDUM 02	March 9, 2021

OPN Project No.
20628000

Sheet Issue Date
CONSTRUCTION February 2, 2021
DRAWINGS

Sheet Title
OVERALL FLOOR PLANS

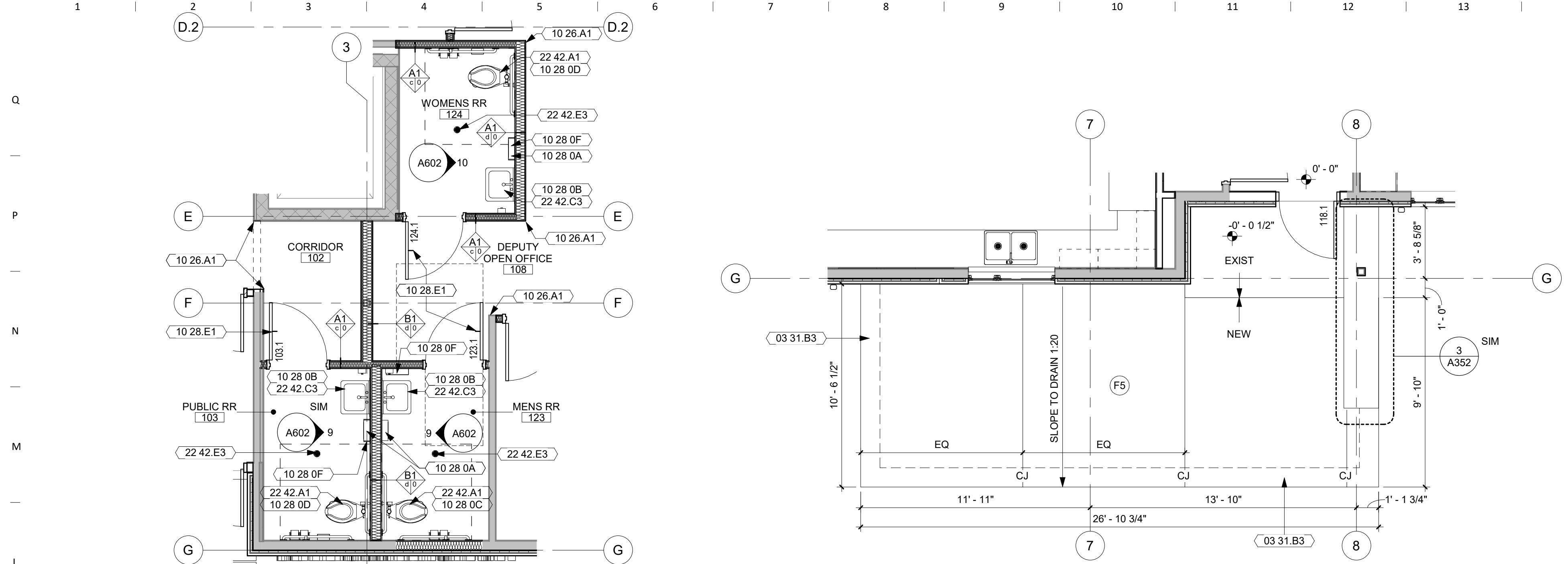
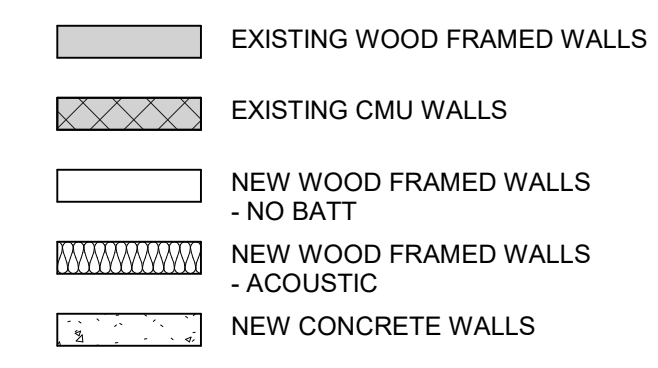
Sheet Number

KEYNOTE LEGEND

- 03 31.B3 THICKENED SLAB EDGE. REFER TO STRUCTURAL DRAWINGS
- 06 41.BA1 PLAM CASEWORK WITH QUARTZ TOP. REFER TO ELEVATIONS.
- 06 41.BA3 PLAM CASEWORK. REFER TO ELEVATIONS.
- 06 61.B3 1/2" SOLID SURFACE WINDOW SILL. SLD-2. SHIM AS NECESSARY
- 07 71.H2 PREFINISHED METAL DOWNSPOUT TO MATCH MP-3
- 09 00.B EXTEND WOOD FRAMING AND GYP. BD. TO UNDERSIDE OF VAULTED GYP. BD. CEILING ABOVE. TYP.
- 09 00.E 1-HR RATED WALL ASSEMBLY - REFER TO WALL SECTIONS AND DETAILS
- 10 11.A1 FRAMELESS GLASS MARKER BOARD. REFER TO ELEVATIONS. PROVIDE IN-WALL BLOCKING BEHIND.
- 10 26.A1 STAINLESS STEEL CORNER GUARD
- 10 28.OA PAPER TOWEL DISPENSER OFCI
- 10 28.OB ACCESSORIES AT SINK: AUTOMATIC SOAP DISPENSER OFCI, MIRROR CFCL
- 10 28.OC ACCESSORIES AT TOILET: SET OF (3) ADA GRAB BARS CFCL, TOILET TISSUE DISPENSER OFCI
- 10 28.OD ACCESSORIES AT TOILET: SET OF (3) ADA GRAB BARS CFCL, TOILET TISSUE DISPENSER OFCI, SANITARY NAPKIN DISPOSAL CFCL
- 10 28.OF SEMI-RECESSED TRASH RECEPTACLE CFCL
- 10 28.E1 ROBE HOOK
- 10 44.A1 SEMI-RECESSED FIRE EXTINGUISHER CABINET.
- 10 44.B2 PORTABLE FIRE EXTINGUISHER IN CABINET
- 11 29.A1 COPIER OFOI - PROVIDE POWER AND DATA
- 11 31.A2 REFRIGERATOR / FREEZER, OFCI
- 11 31.C1 OVEN AND RANGE, OFCI
- 11 31.D1 DISHWASHER, OFCI
- 11 31.E1 MICROWAVE, OFOI - PROVIDE POWER
- 11 52.A1 WALL-MOUNTED MONITOR OFCI. PROVIDE IN-WALL BLOCKING, POWER AND DATA.
- 11 52.A2 AV RACK LOCATED IN LOWER CABINET, PROVIDE POWER AND DATA AS NECESSARY.
- 22 42.A1 FLOOR-MOUNTED TOILET
- 22 42.C2 UNDERMOUNT DUAL COMPARTMENT SINK
- 22 42.C3 WALL-MOUNTED LAVATORY.
- 22 42.C4 GARBAGE DISPOSAL CFCL
- 22 42.E1 MOP SINK - PROVIDE FRP PANEL 48" EA. SIDE AT ADJACENT WALLS
- 22 42.E3 FLOOR DRAIN - SLOPE FLOOR TO DRAIN. REFER TO PLUMBING DRAWINGS
- 22 47.A2 DUAL HI-FLOW ELECTRIC WATER COOLER WITH BOTTLE FILLER

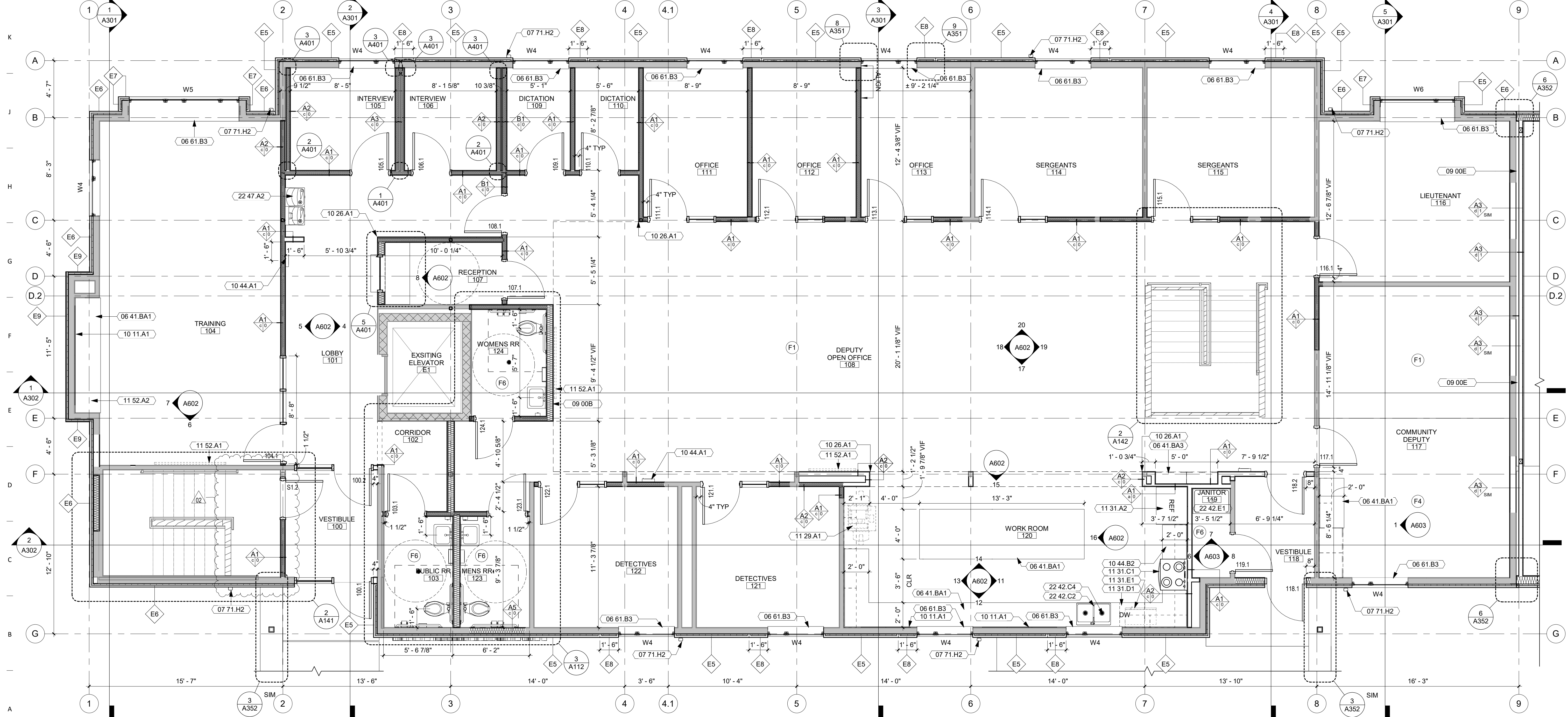
GENERAL NOTES

1. DIMENSIONS ARE MEASURED FACE-OF-FINISH TO FACE-OF-FINISH OR ROUGH MASONRY OPENING UNLESS NOTED OTHERWISE - TYPICAL FOR ALL DRAWINGS.
2. FIELD VERIFY ALL DIMENSIONS AND EXISTING CONDITIONS - TYPICAL FOR ALL DRAWINGS.
3. IN THE EVENT OF A DISCREPANCY BETWEEN ARCHITECTURAL AND CONSULTANT DRAWINGS, NOTIFY ARCHITECT IMMEDIATELY PRIOR TO COMMENCING WORK - TYPICAL FOR ALL DRAWINGS.
4. ALL PENETRATIONS IN FIRE RATED FLOORS AND WALLS MUST BE SEALED WITH APPROPRIATE FIRESTOPPING SYSTEM.
5. PATCH AND REPAIR EXISTING FLOOR SLABS AND WALL SURFACES DAMAGED FROM DEMOLITION.

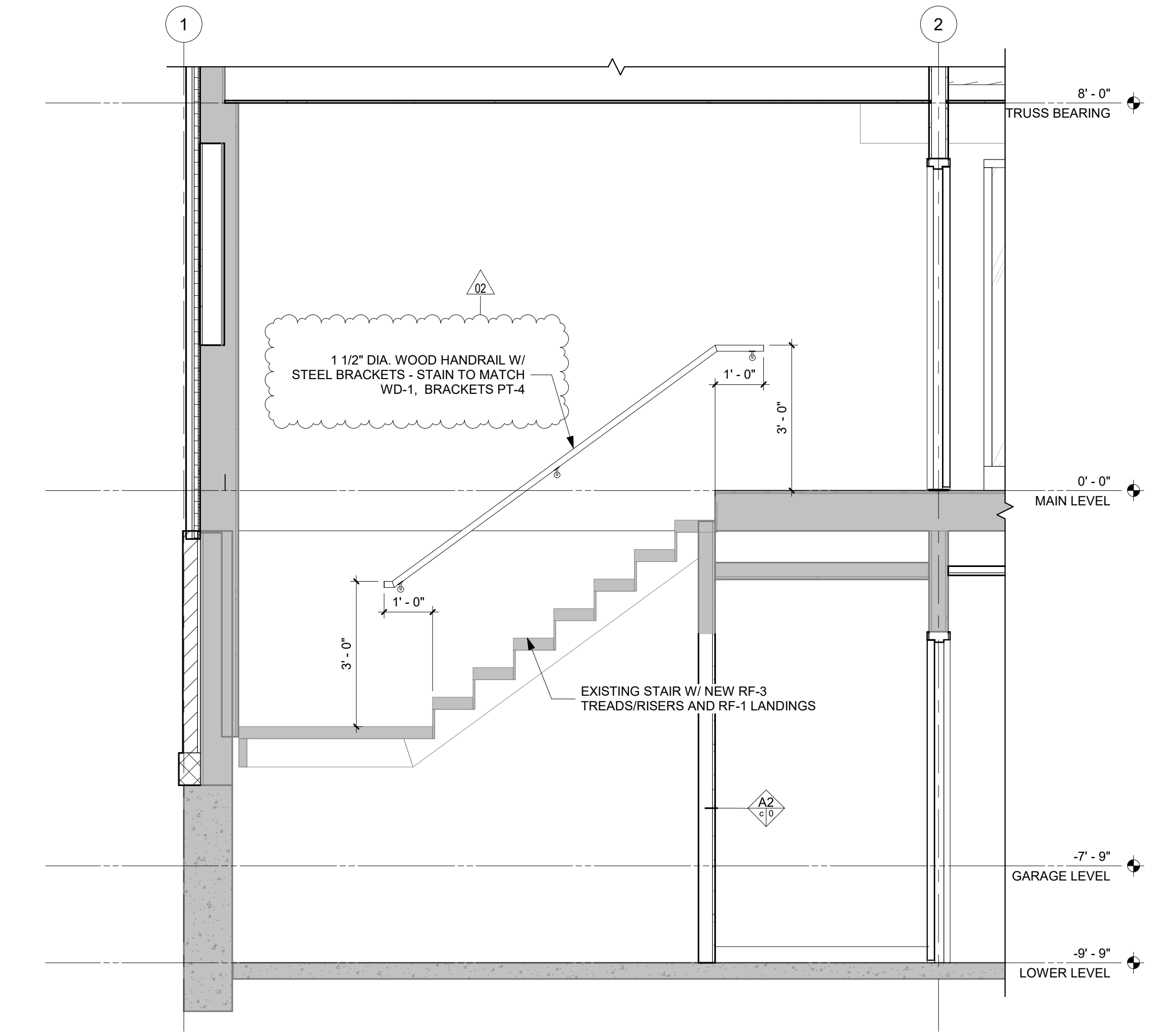


3 ENLARGED RESTROOM PLAN
1/4" = 1'-0" Ref. 1/A112

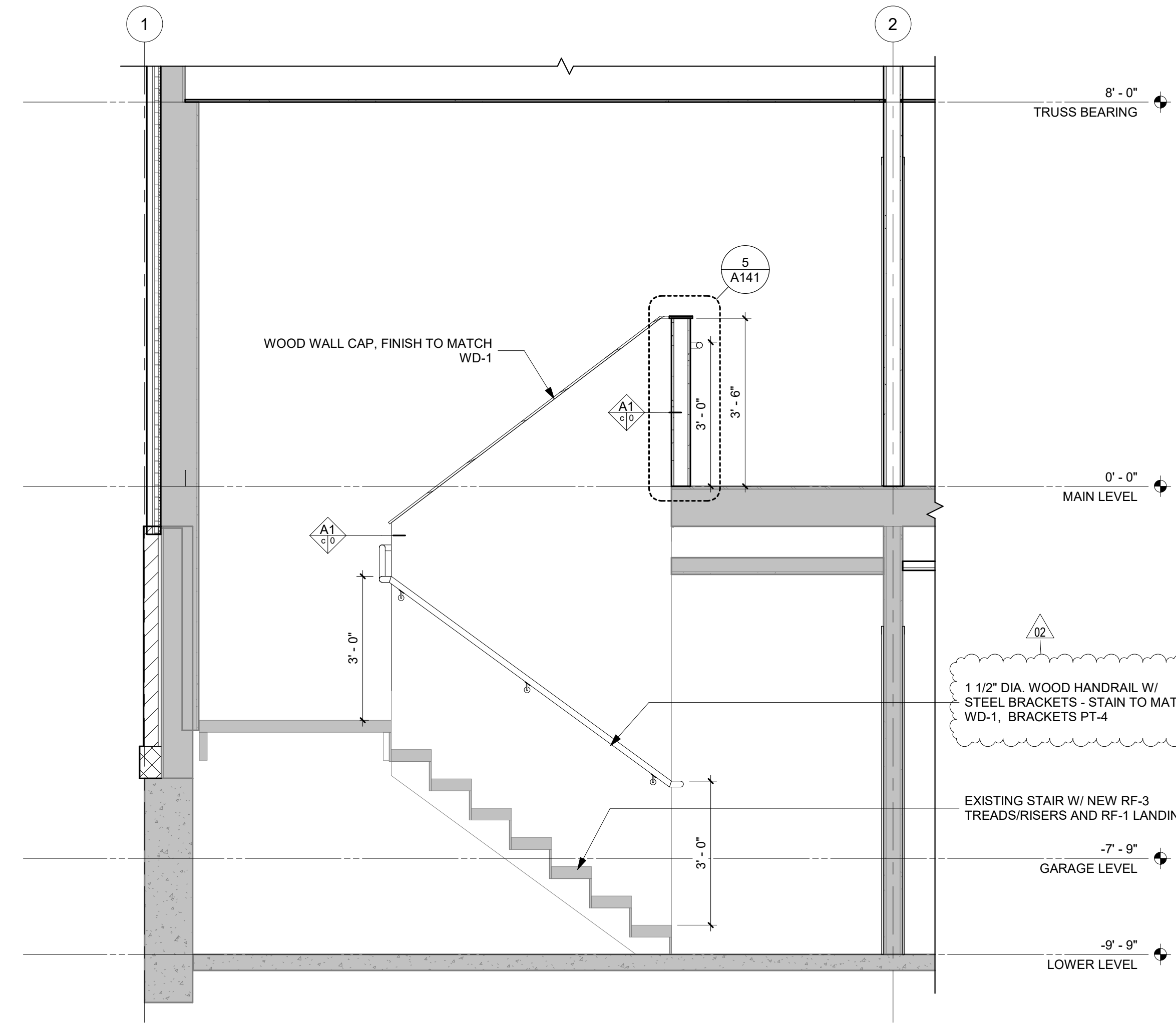
2 ENLARGED PATIO PLAN - MAIN LEVEL
1/4" = 1'-0" Ref. 2/A101



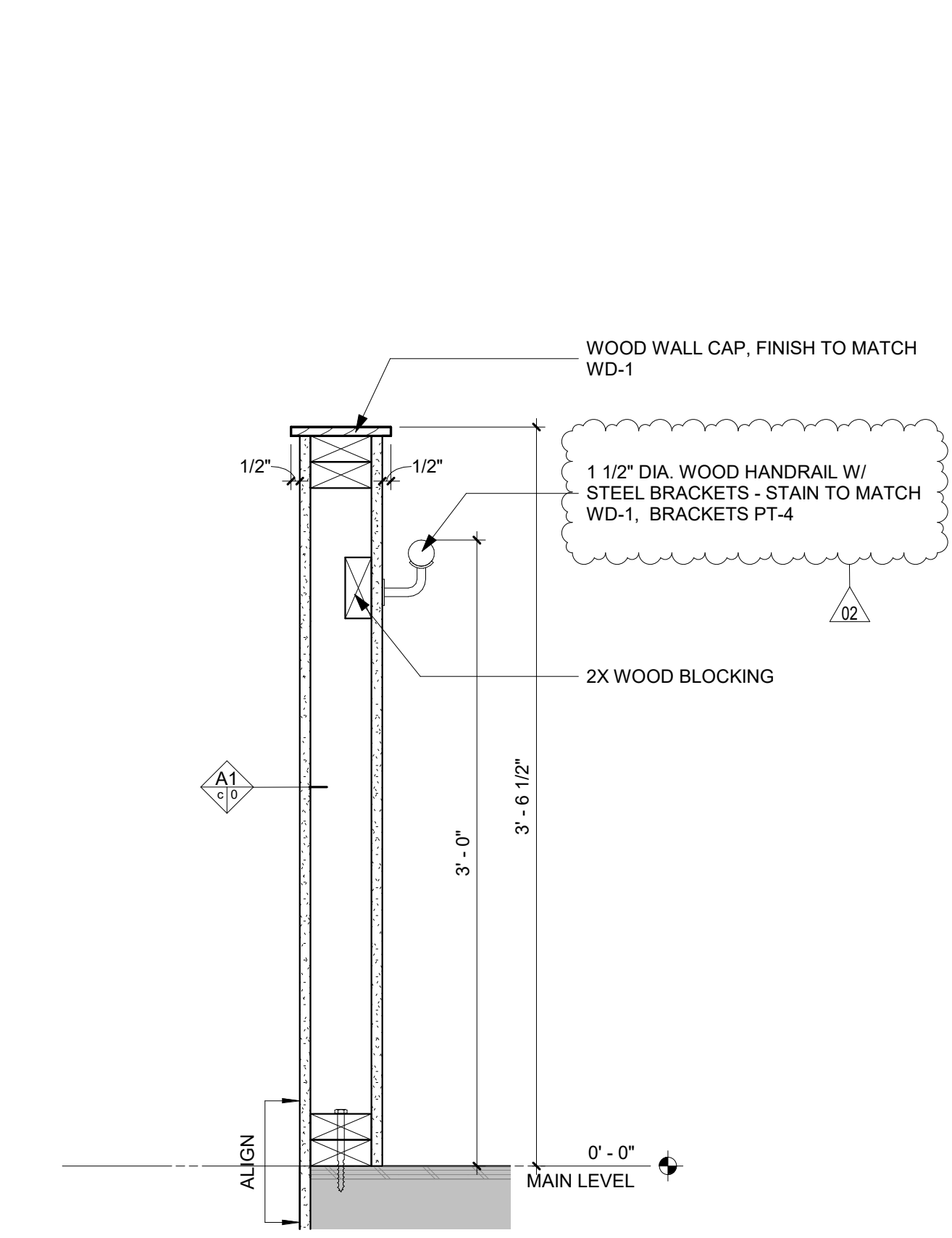
1 PARTIAL ENLARGED FLOOR PLAN - MAIN LEVEL
1/4" = 1'-0" Ref. 2/A101



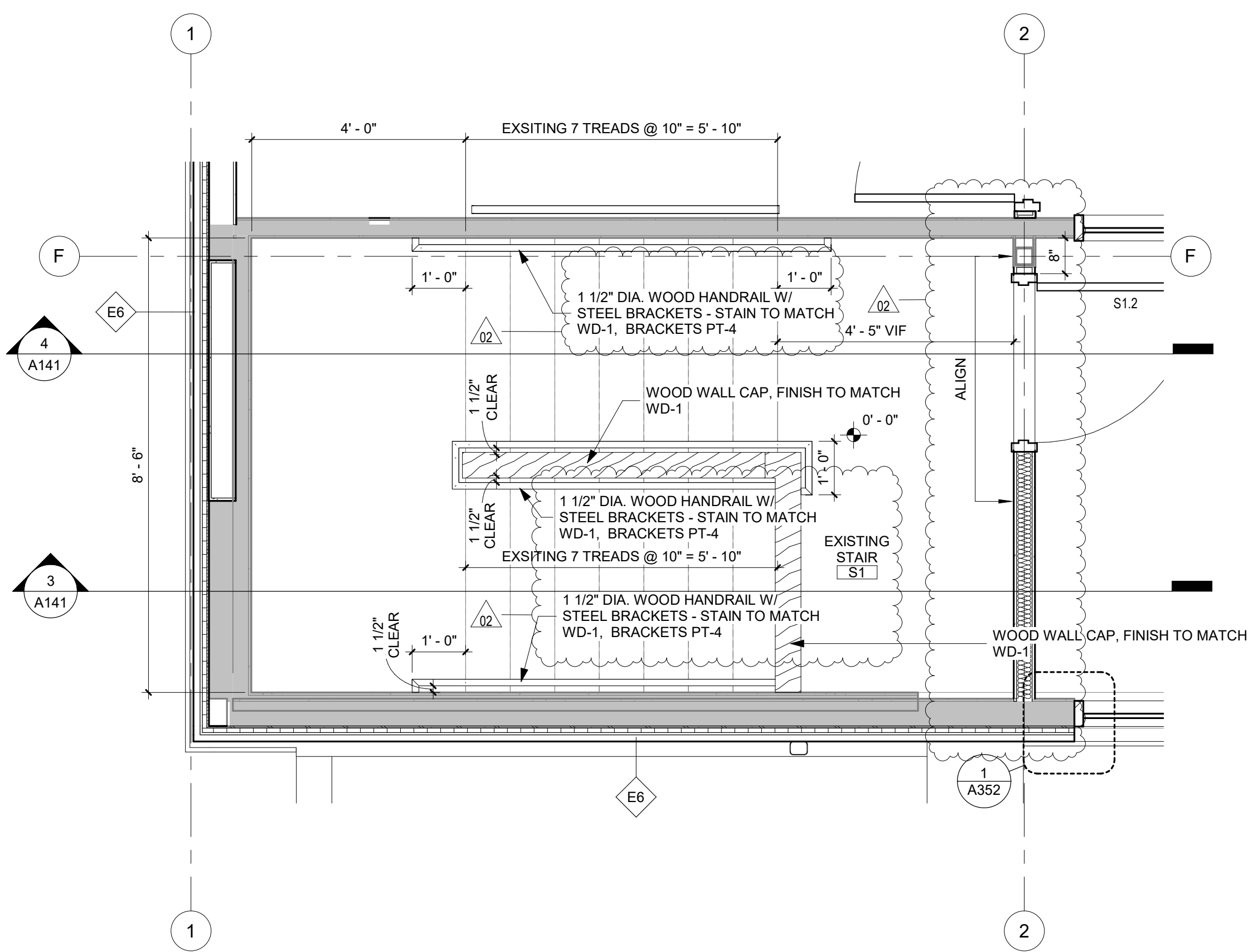
4 EXISTING STAIR S1 - SECTION
1/2" = 1'-0" Ref. 1/ A141



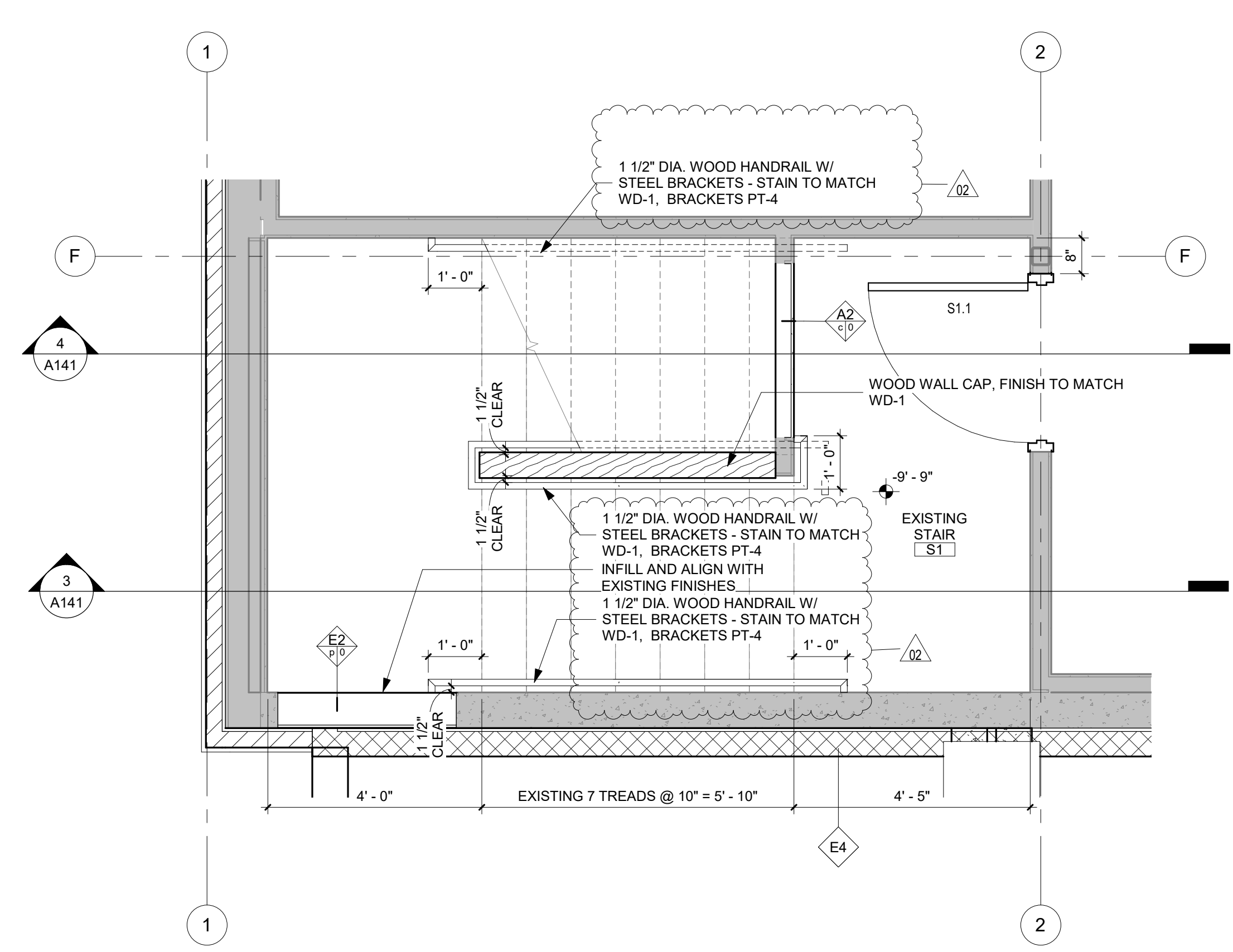
3 EXISTING STAIR S1 - SECTION
1/2" = 1'-0" Ref. 1/ A141



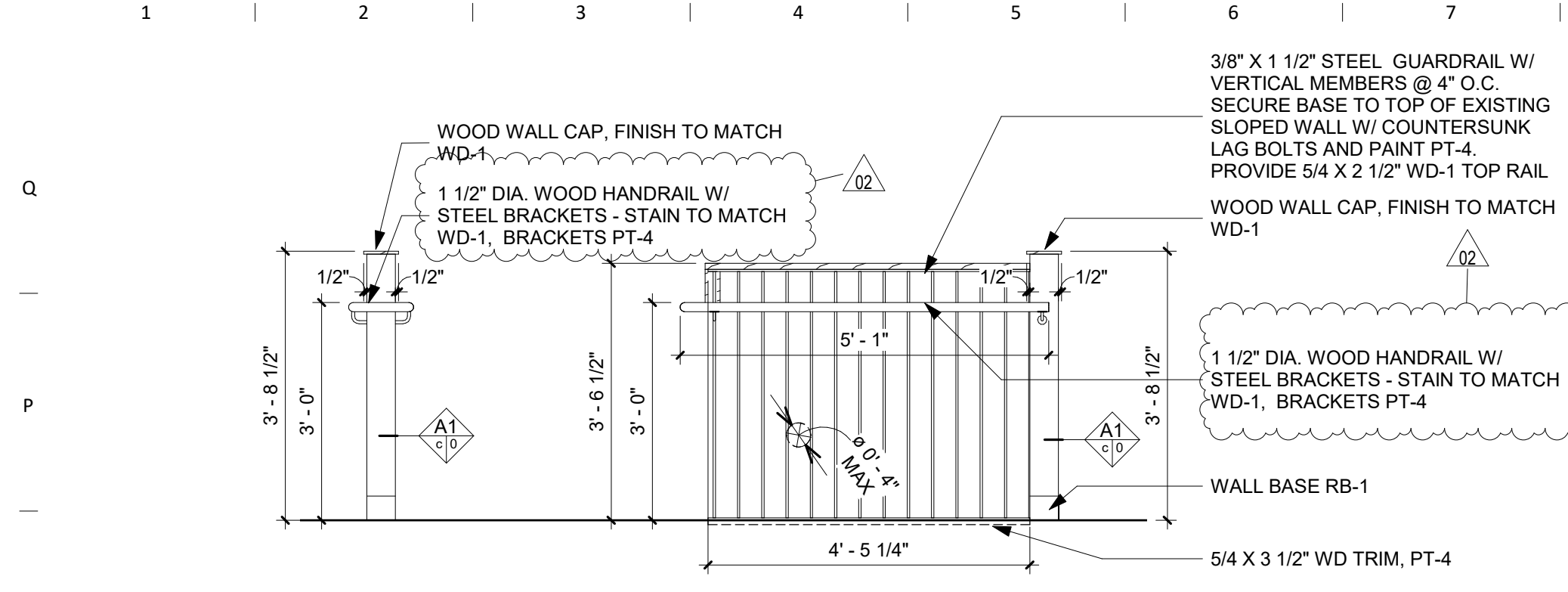
5 STAIR GUARDRAIL SECTION
1 1/2" = 1'-0" Ref. 3/ A141



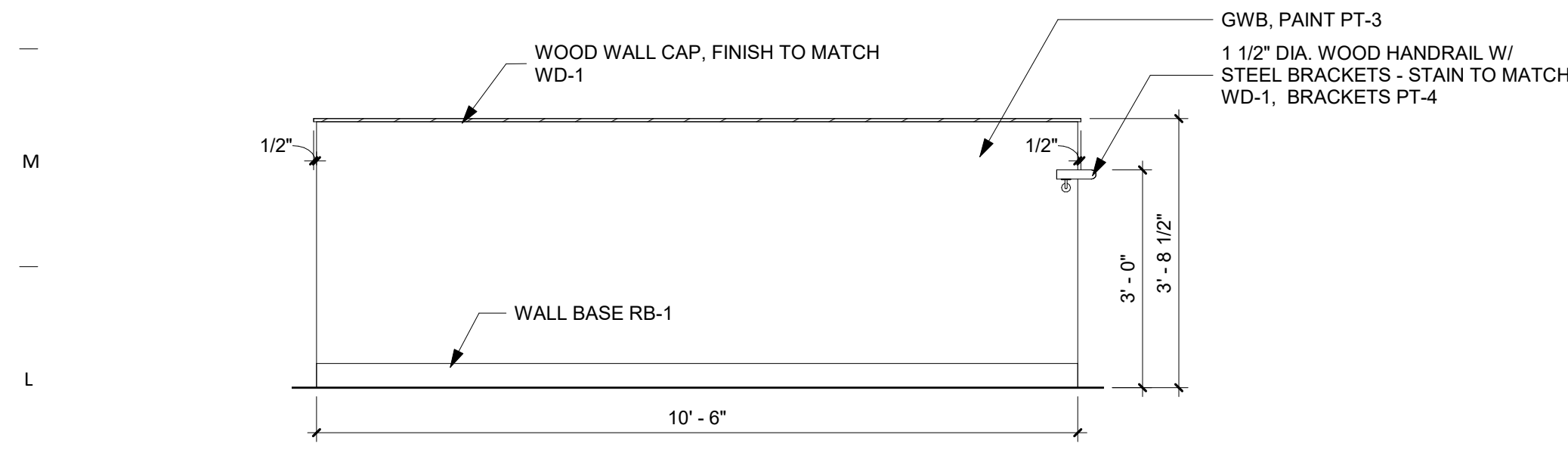
2 ENLARGED STAIR S1 PLAN - MAIN LEVEL
1/2" = 1'-0" Ref. 1/ A112



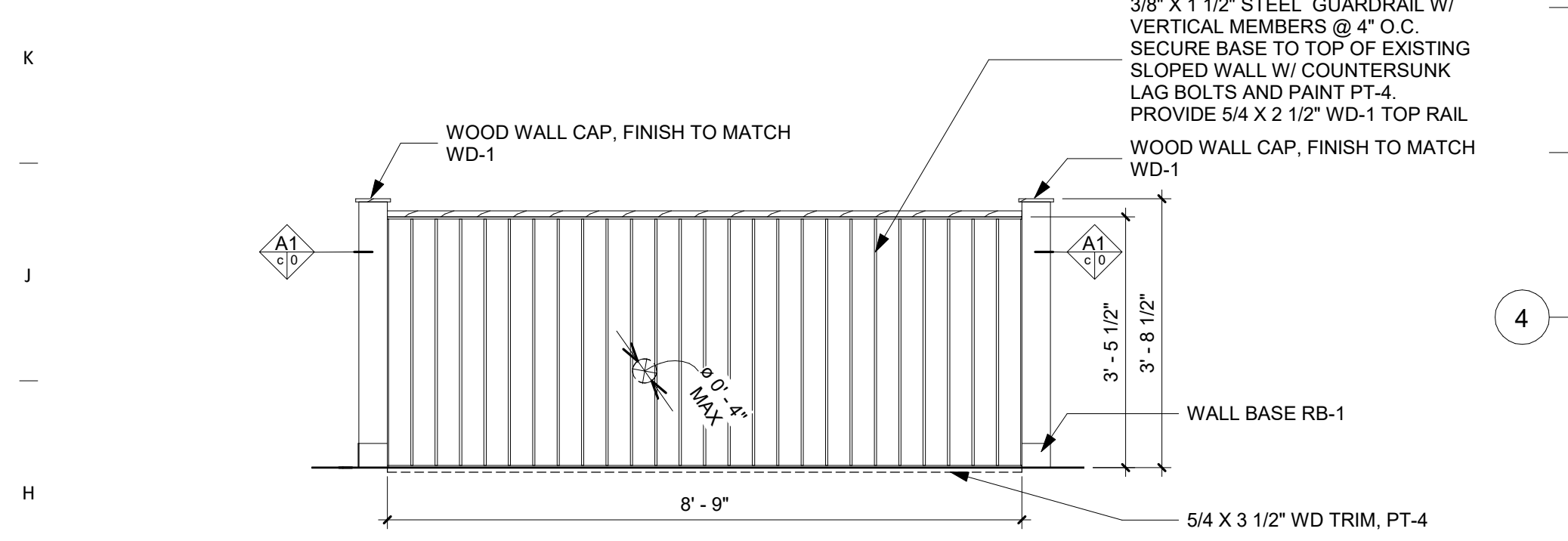
1 ENLARGED STAIR S1 PLAN - LOWER LEVEL
1/2" = 1'-0" Ref. 1/ A111



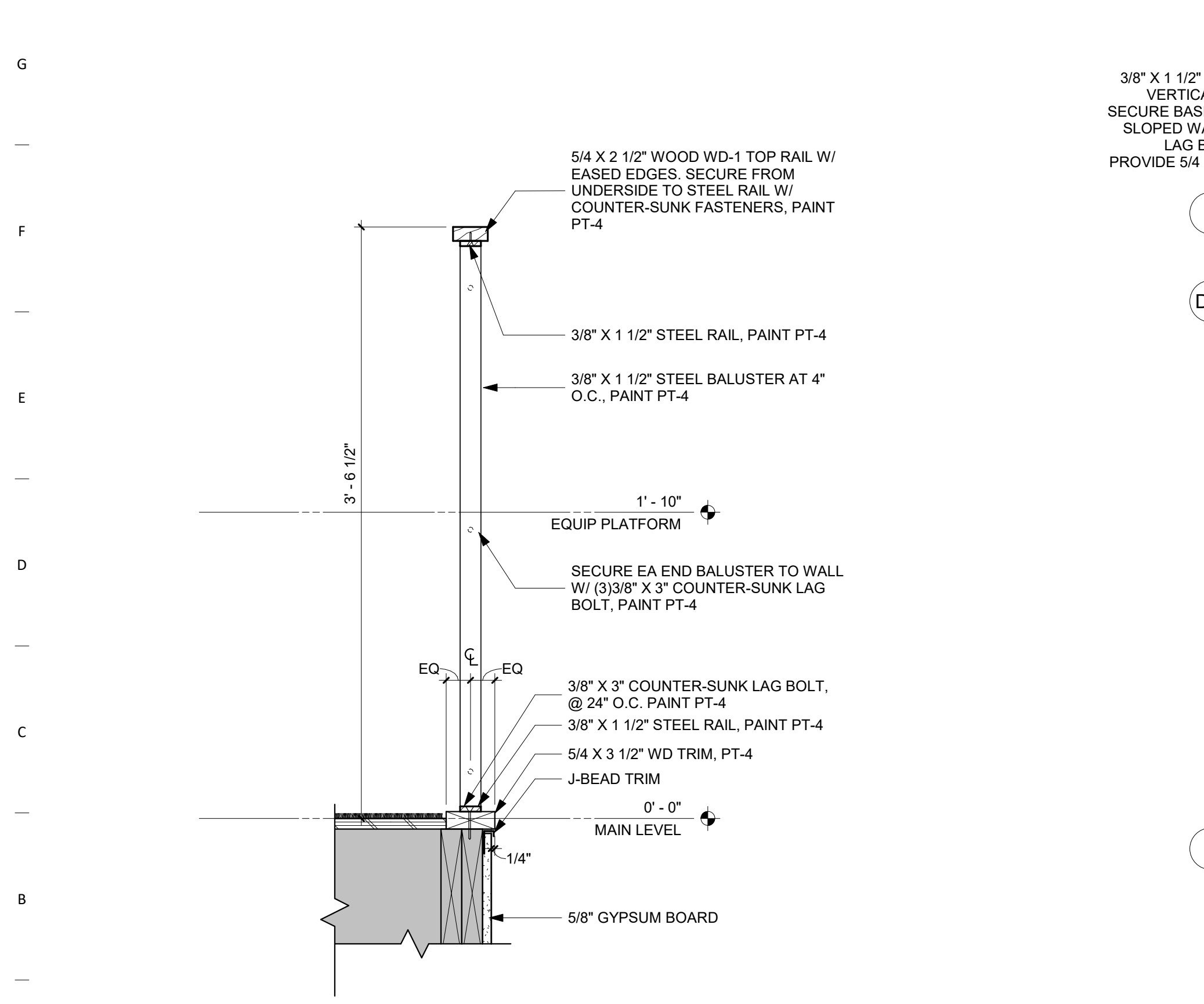
8 SOUTH AT STAIR S2
1/2" = 1'-0" Ref. 2/ A142



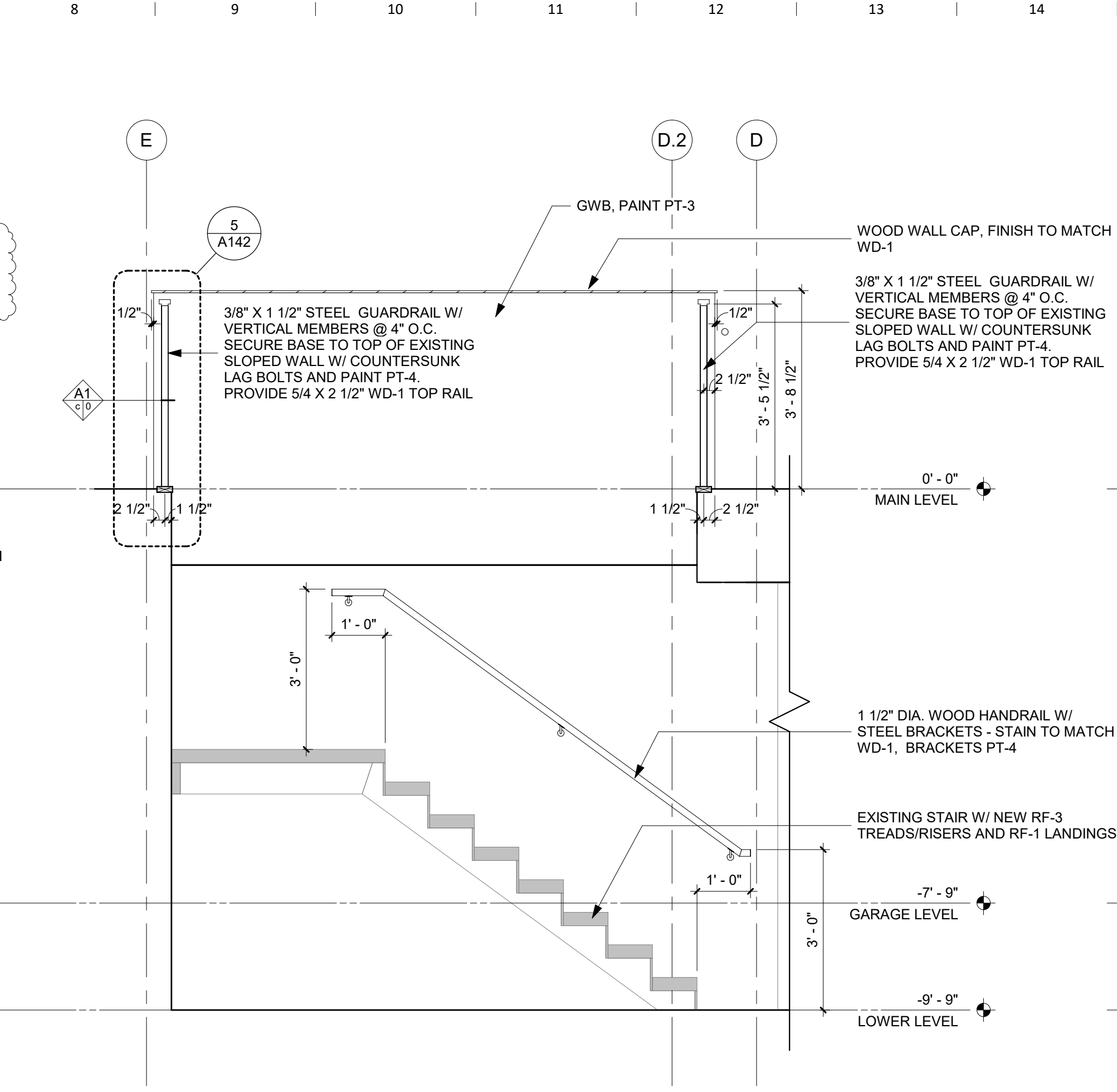
7 SIDE AT STAIR S2
1/2" = 1'-0" Ref. 2/ A142



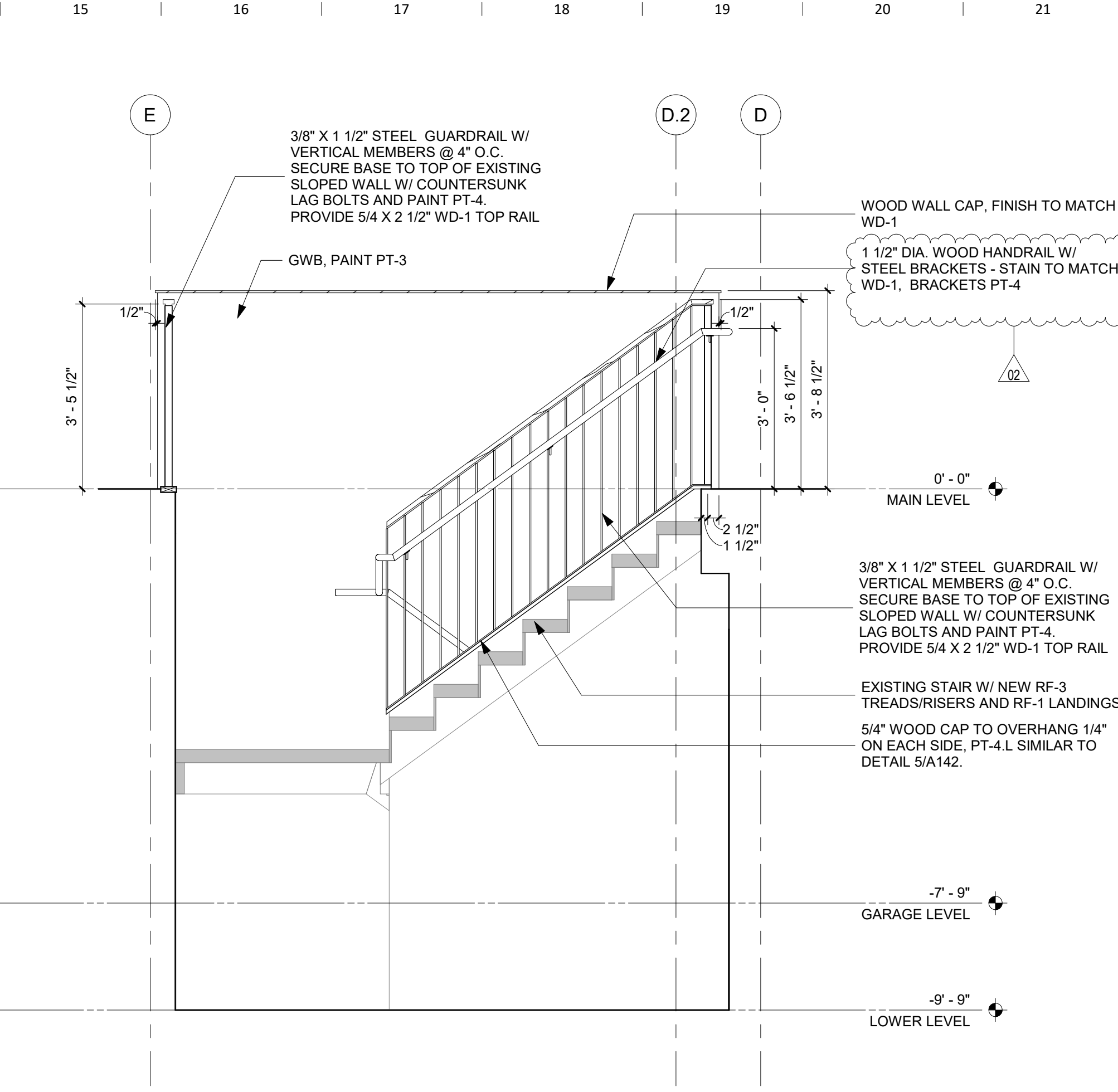
6 NORTH AT STAIR S2
1/2" = 1'-0" Ref. 2/ A142



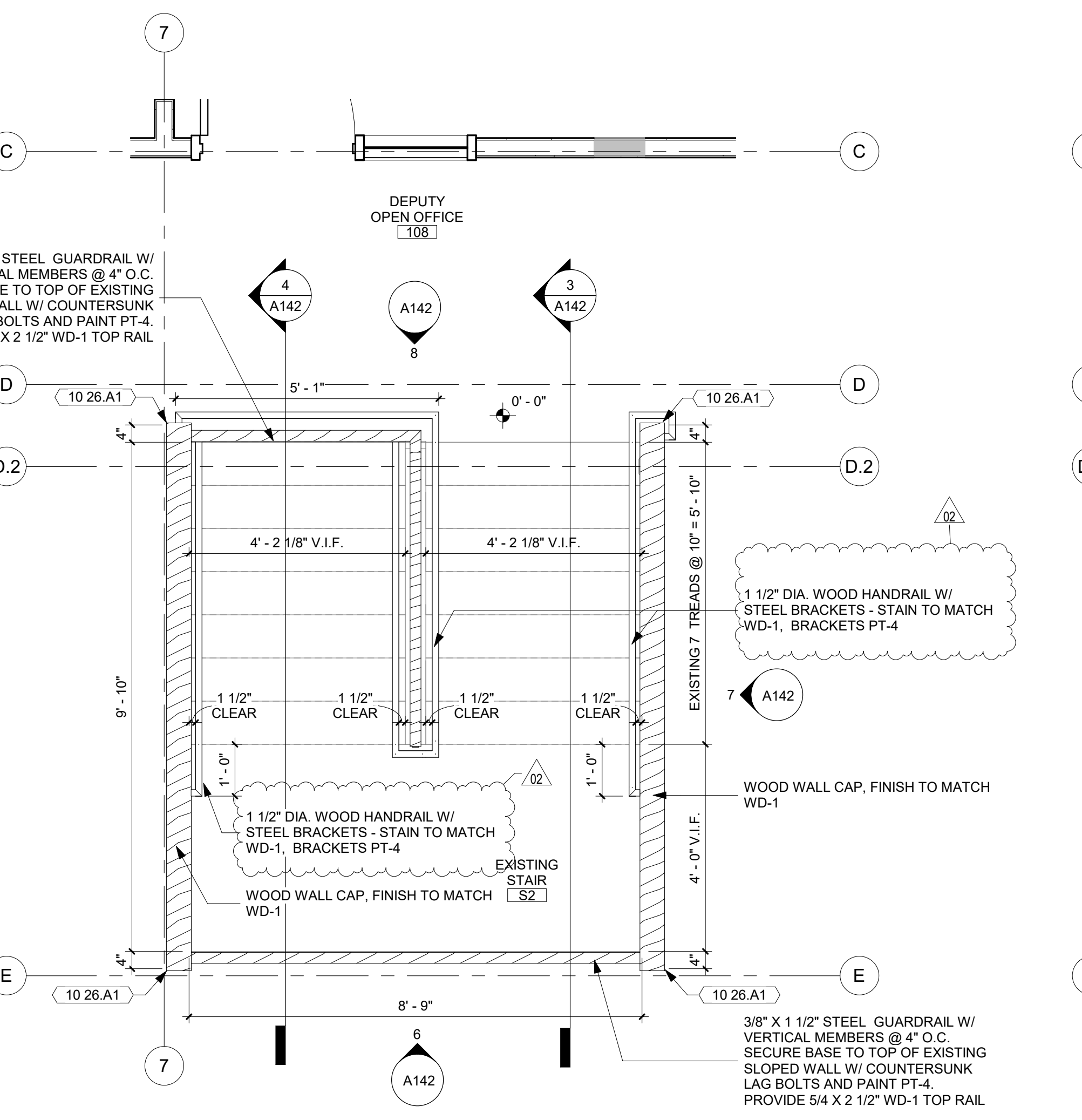
5 STEEL GUARDRAIL DETAIL
1 1/2" = 1'-0" Ref. 4/ A142



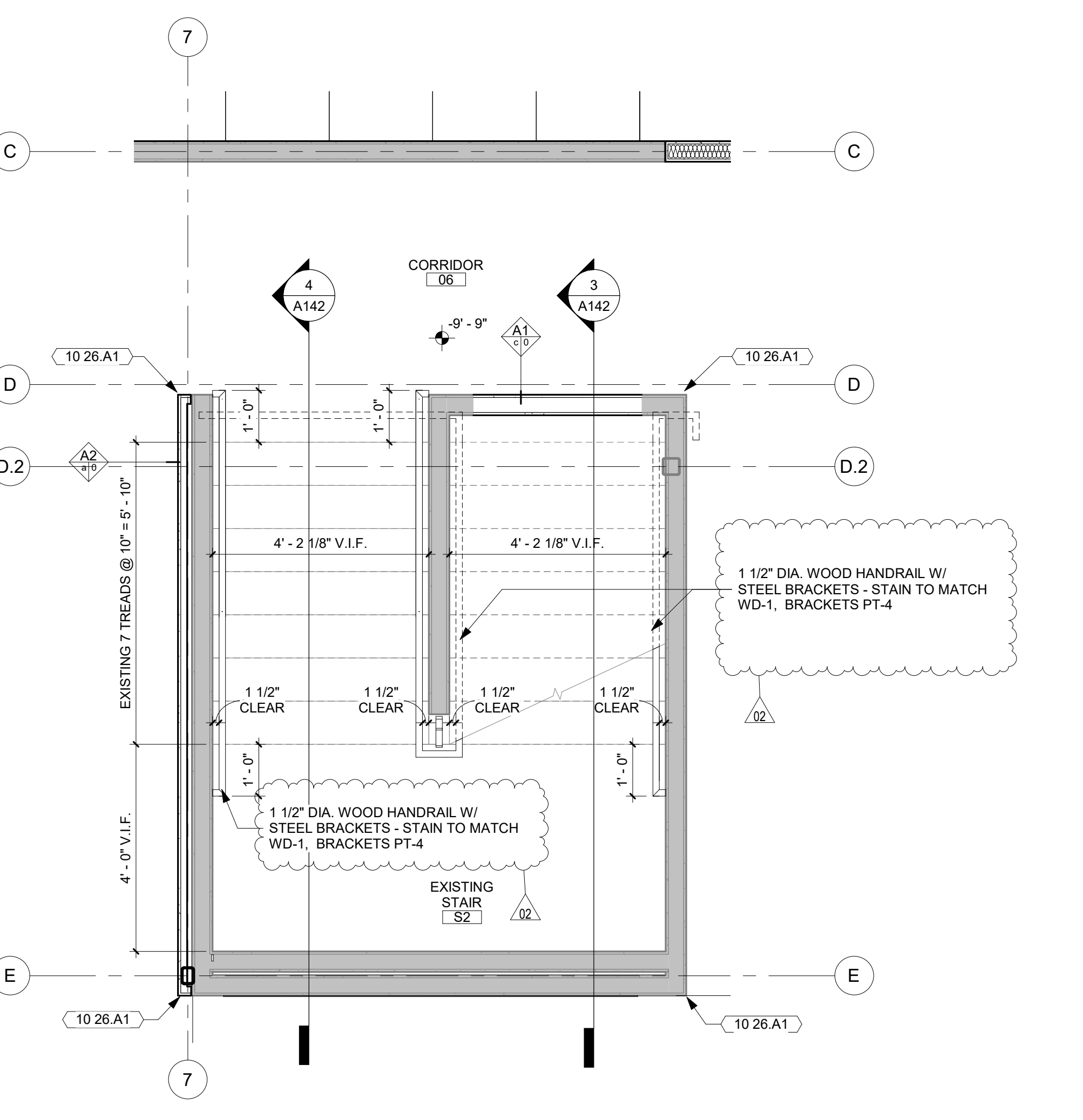
4 EXISTING STAIR S2 - SECTION
1/2" = 1'-0" Ref. 1/ A142



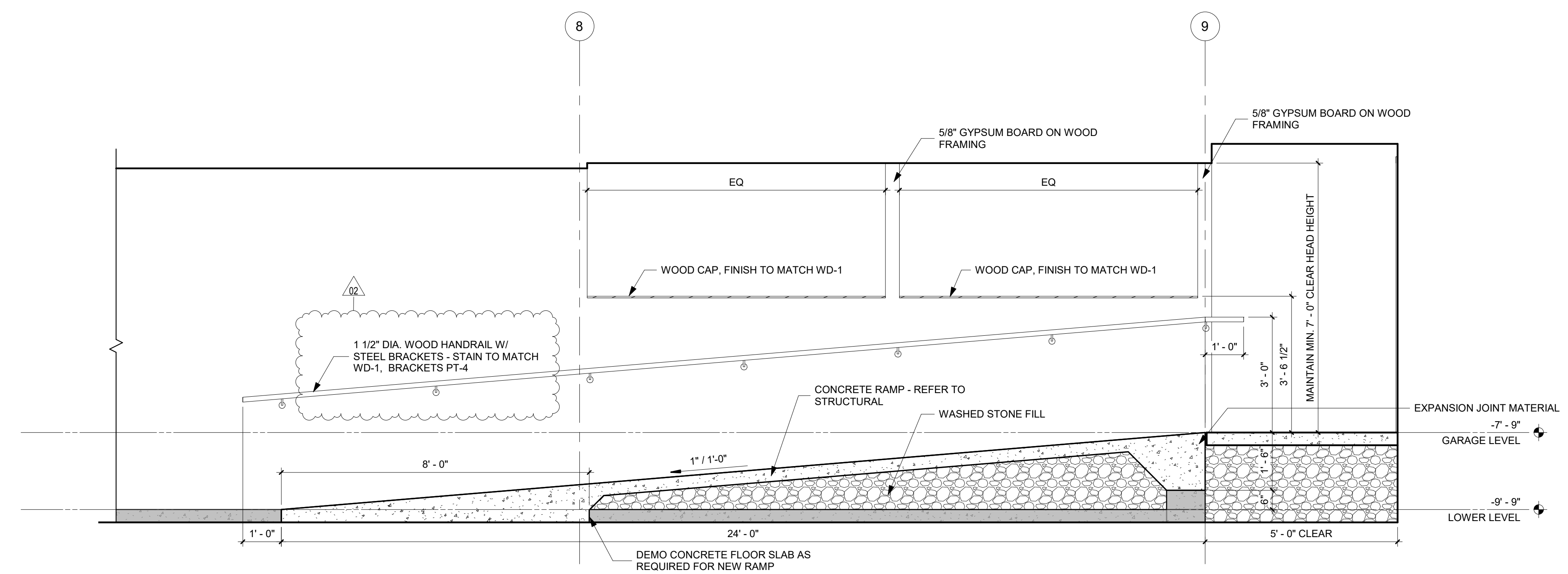
3 EXISTING STAIR S2 - SECTION
1/2" = 1'-0" Ref. 1/ A142



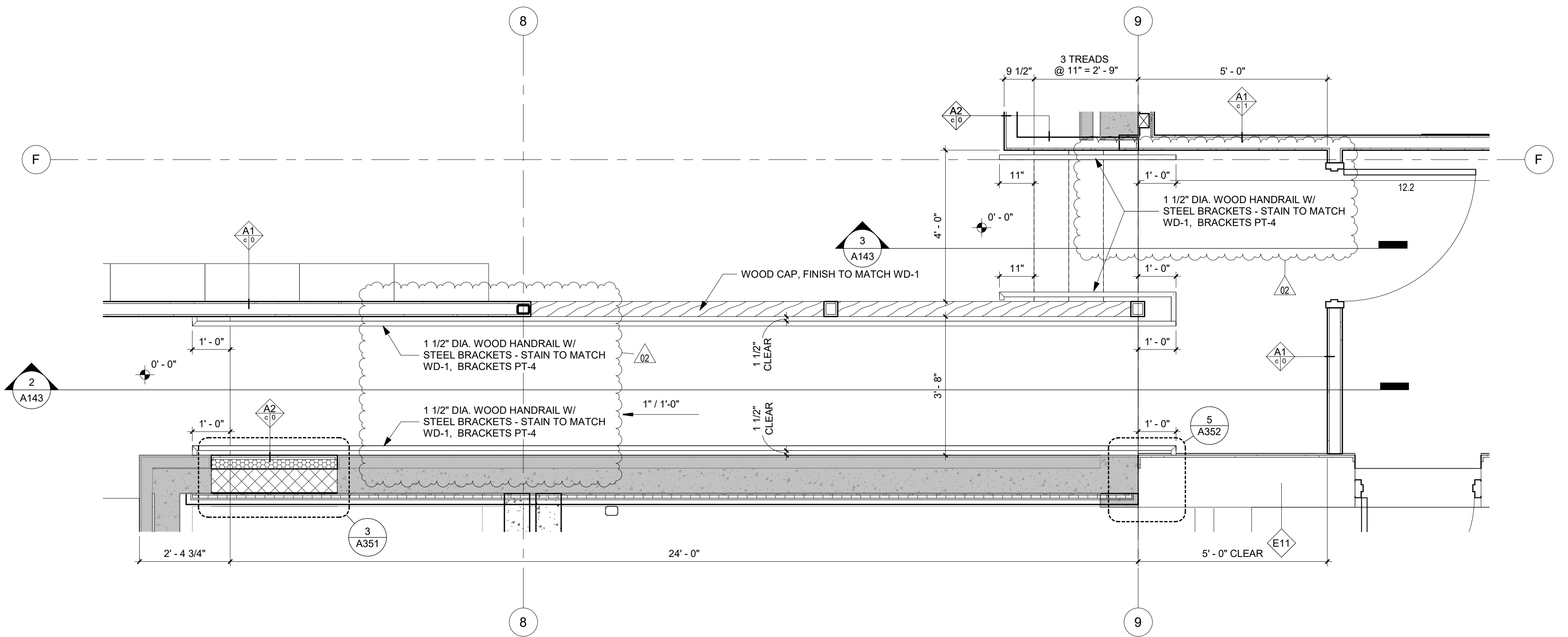
2 ENLARGED STAIR S2 PLAN - MAIN LEVEL
1/2" = 1'-0" Ref. 1/ A112



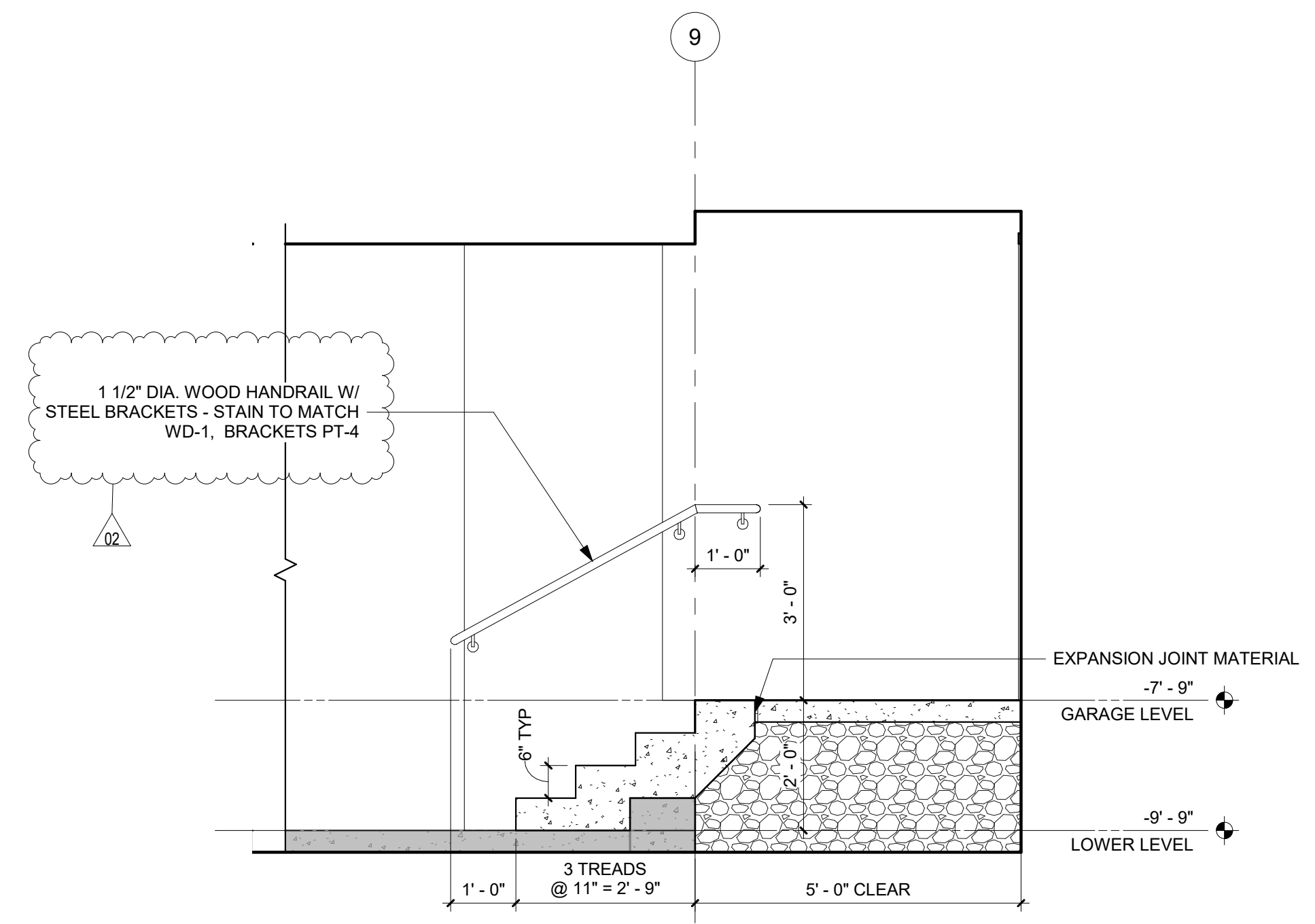
1 ENLARGED STAIR S2 PLAN - LOWER LEVEL
1/2" = 1'-0" Ref. 1/ A111



2 GARAGE CONNECTOR RAMP SECTION
1/2" = 1'-0" Ref. 1/ A143



1 ENLARGED RAMP/STAIR PLAN - LOWER LEVEL
1/2" = 1'-0" Ref. 1/ A111



3 GARAGE CONNECTOR STAIR SECTION
1/2" = 1'-0" Ref. 1/ A143

Key Plan

Revision	Description	Date
2	ADDENDUM 02	March 9, 2021

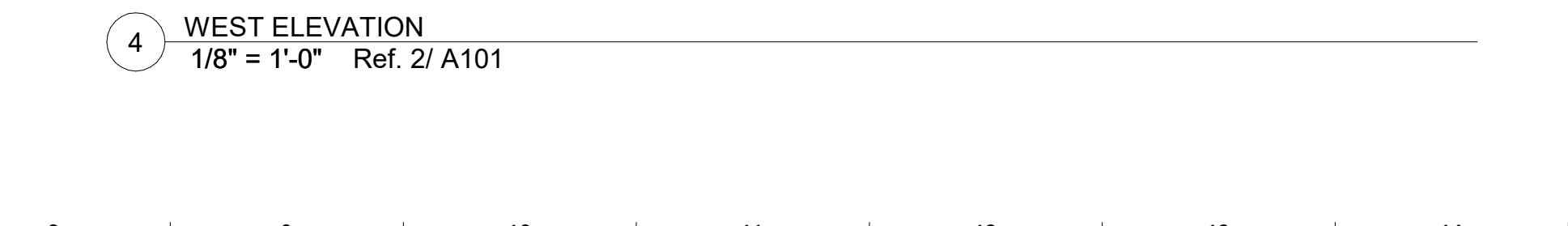
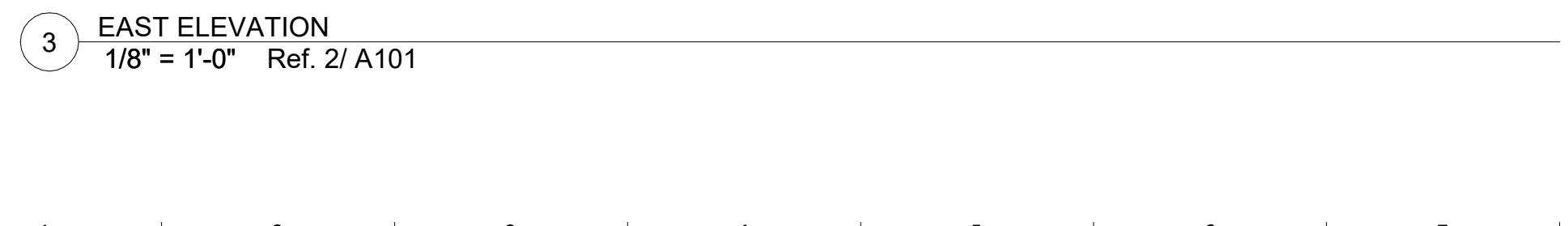
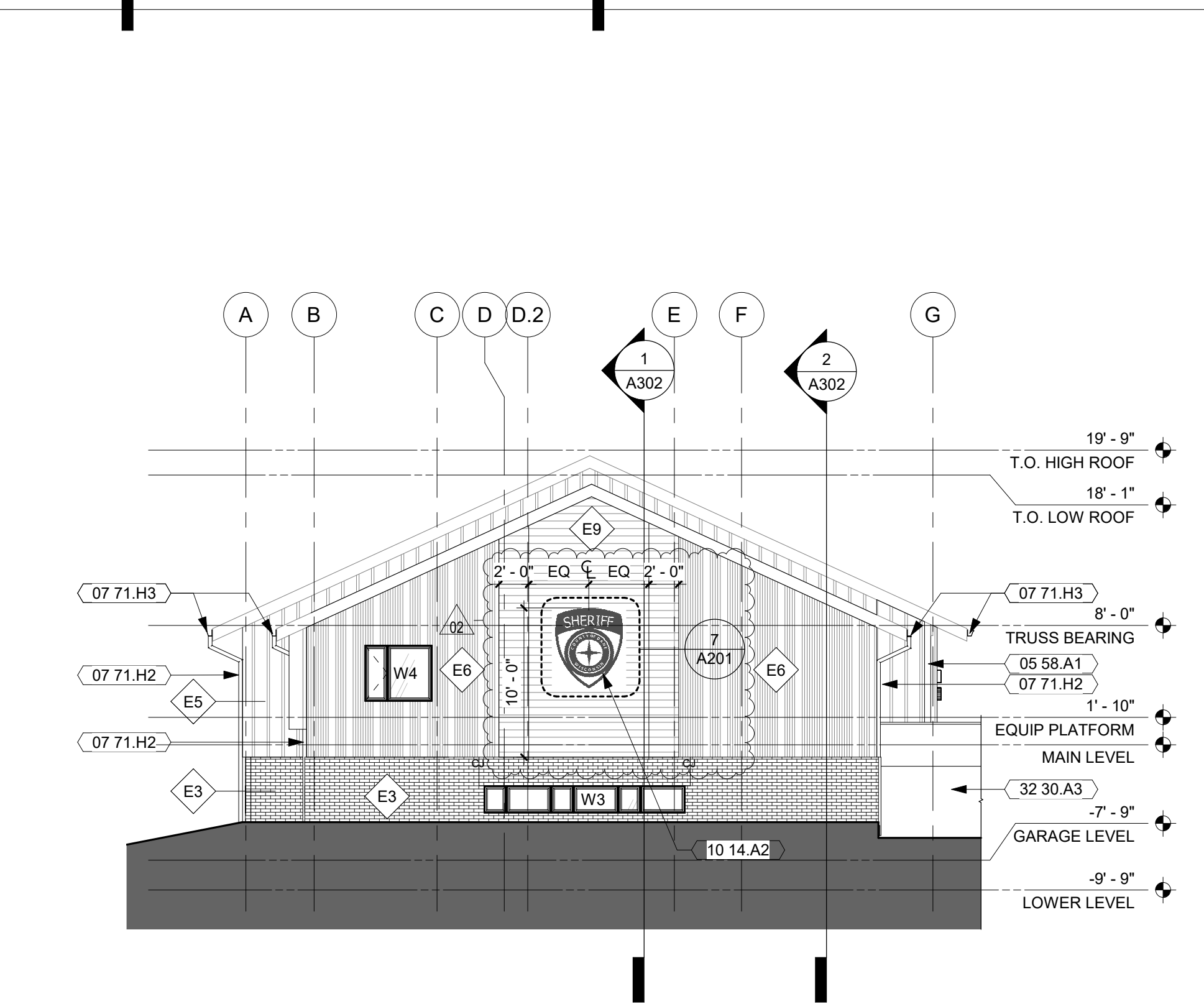
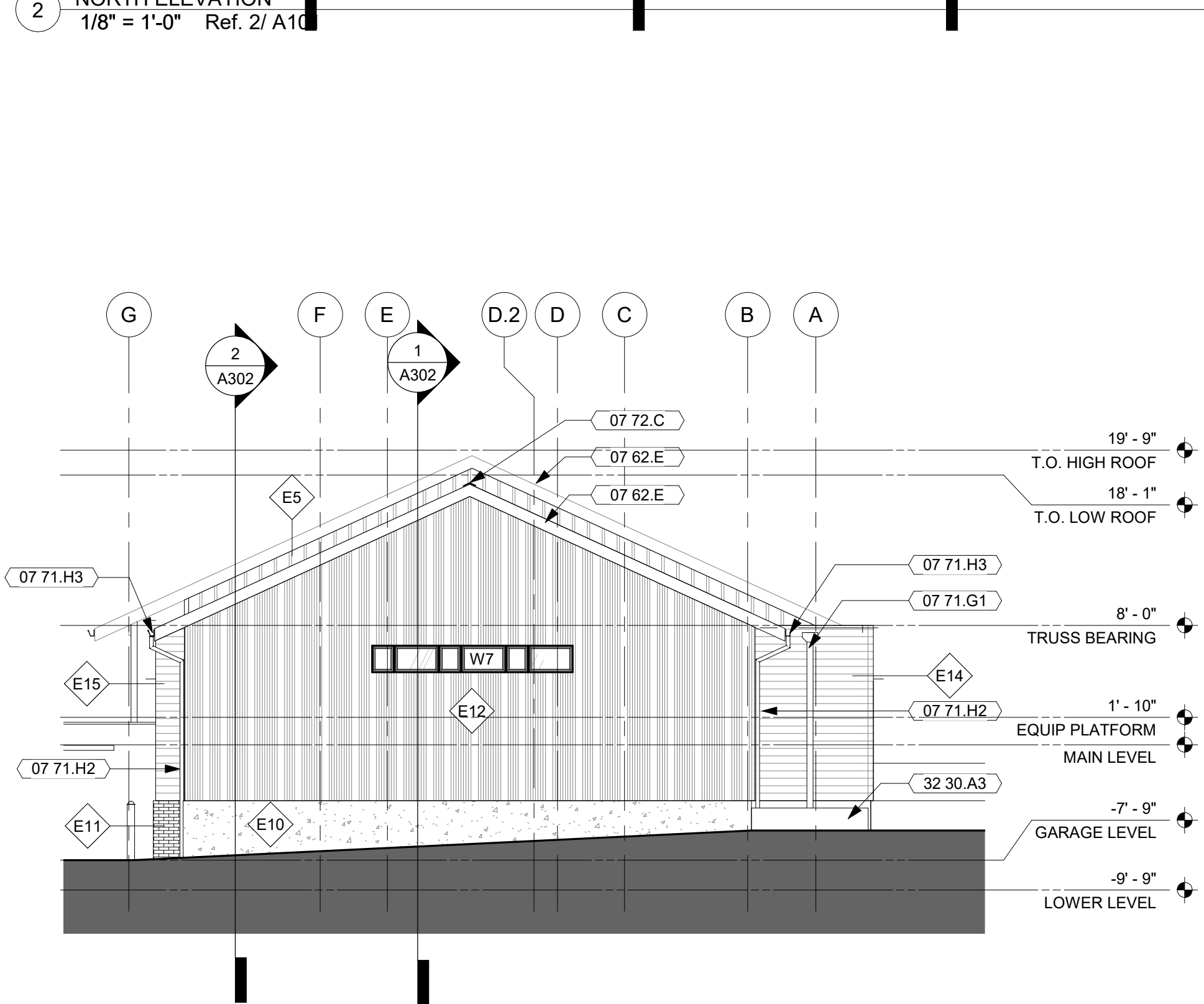
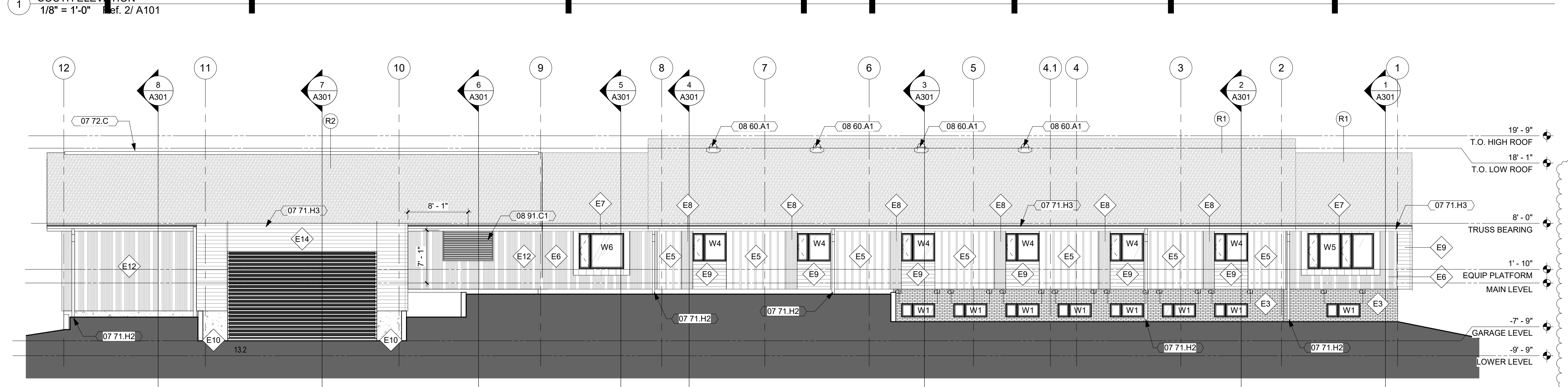
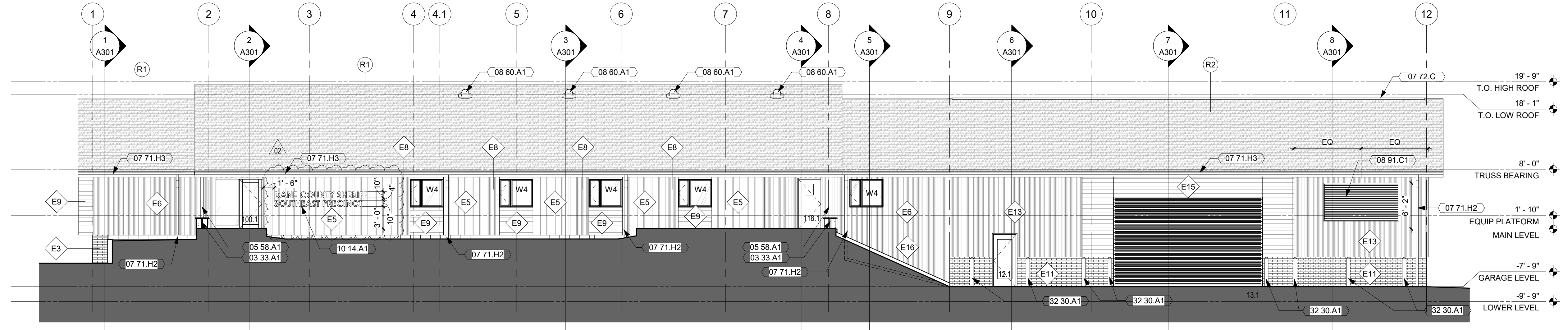
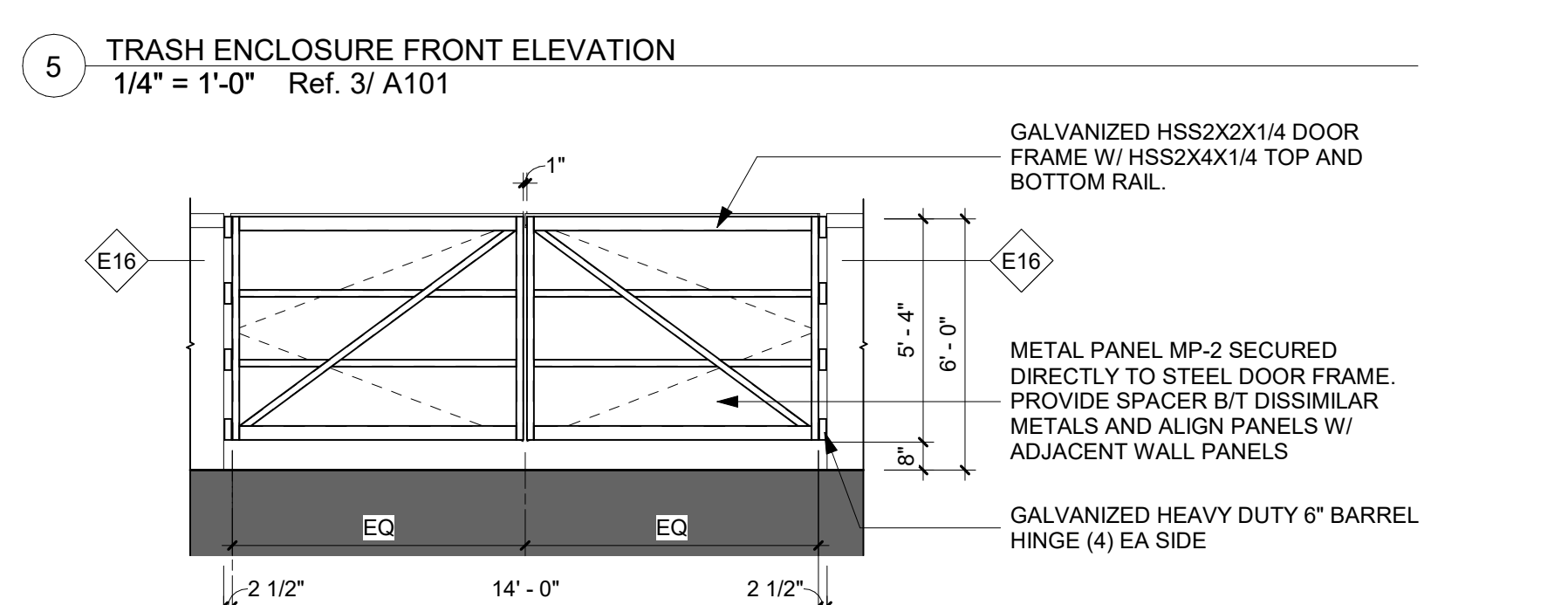
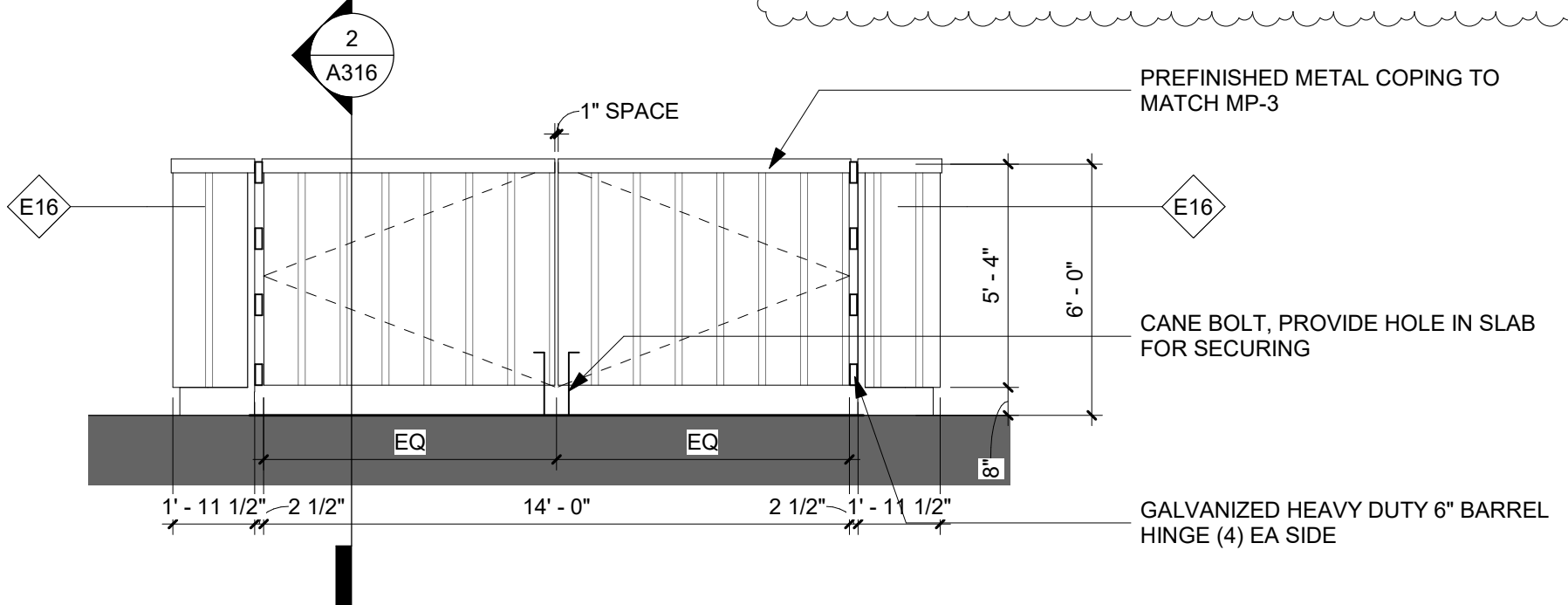
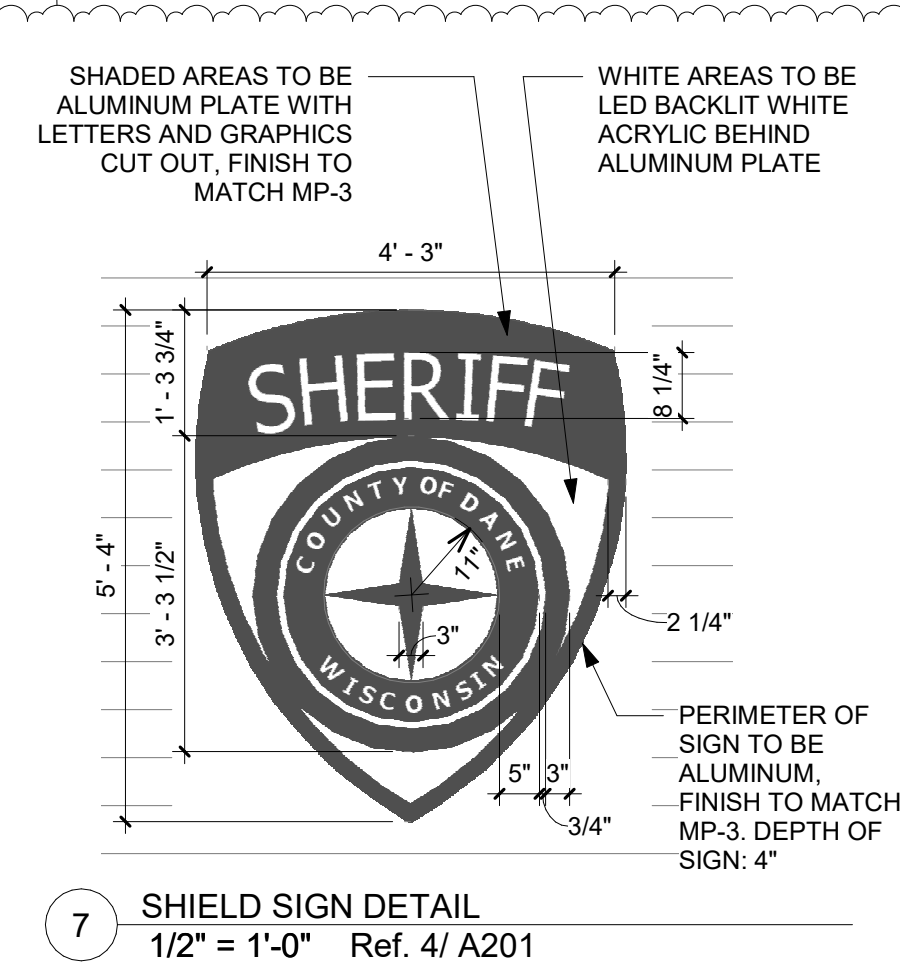
OPN Project No.
20628000

Sheet Issue Date
CONSTRUCTION DRAWINGS February 2, 2021

Sheet Name
VERTICAL CIRCULATION PLANS, SECTIONS, AND DETAILS

KEYNOTE LEGEND

- 03 33.A1 POURED CONCRETE BENCH WITH WOOD TOP, INTEGRATED LIGHTING.
- 05 05.A4 CANE BOLT, PROVIDE HOLE IN SLAB FOR SECURING
- 05 05.A5 GALVANIZED HEAVY DUTY 6" BARREL HINGE (4) EA SIDE
- 05 12.E1 GALVANIZED HSS2X2X1/4 DOOR FRAME W/ HSS2X4X1/4 TOP AND BOTTOM RAIL.
- 05 58.A1 SHEET METAL WRAP AT COLUMN TO MATCH MP-3
- 07 42.B1 METAL PANEL MP-2 SECURED DIRECTLY TO STEEL DOOR FRAME. PROVIDE SPACER B/T DISSIMILAR METALS AND ALIGN PANELS W/ ADJACENT WALL PANELS
- 07 62.E PREFINISHED METAL FASCIA & TRIM TO MATCH MP-3
- 07 71.B1 PREFINISHED METAL COPING TO MATCH MP-3
- 07 71.G1 ROOF SCUPPER & DOWNSPOUT. MATCH MP-3.
- 07 71.H2 PREFINISHED METAL DOWNSPOUT TO MATCH MP-3
- 07 71.H3 PREFINISHED METAL GUTTER AND FASCIA TO MATCH MP-3
- 07 72.C CONTINUOUS RIDGE VENT (ADDITION ONLY)
- 08 60.A1 14" TUBULAR SKYLIGHT
- 08 91.C1 FIXED LOUVER - COORDINATE W/ MECHANICAL. MATCH FINISH OF MP-2
- 10 14.A1 FABRICATED METAL DIMENSIONAL LETTER SIGN, FINISH TO MATCH MP-3.
- 10 14.A2 CUSTOM ALUMINUM PLATE BUILDING SIGN WITH LED BACKLIT ACRYLIC LETTERS AND GRAPHIC. ALUMINUM FINISH TO MATCH MP-3
- 32 30.A1 CONCRETE FILLED STEEL PIPE BOLLARD
- 32 30.A3 BLOCK RETAINING WALL - REFER TO CIVIL



Key Plan

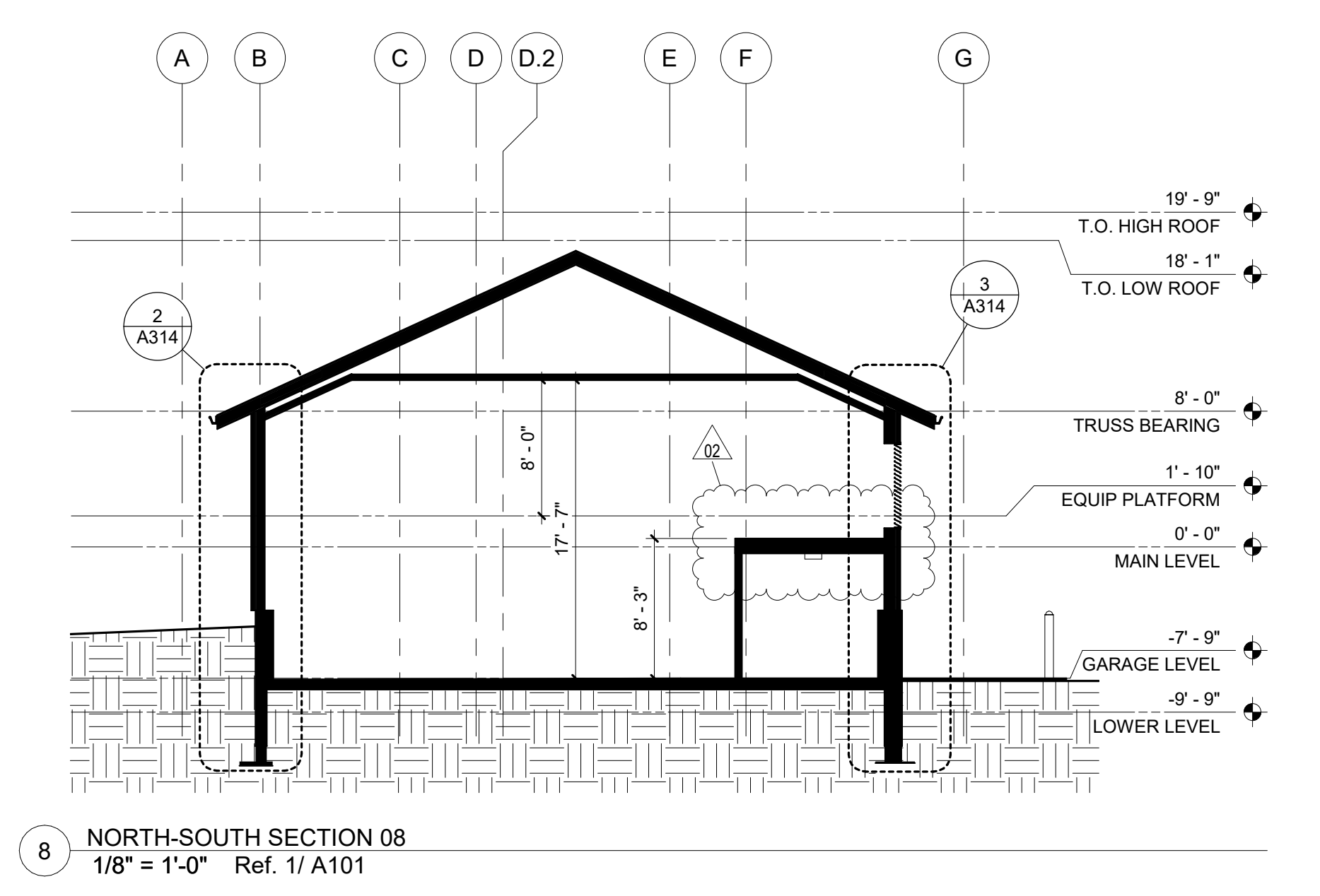
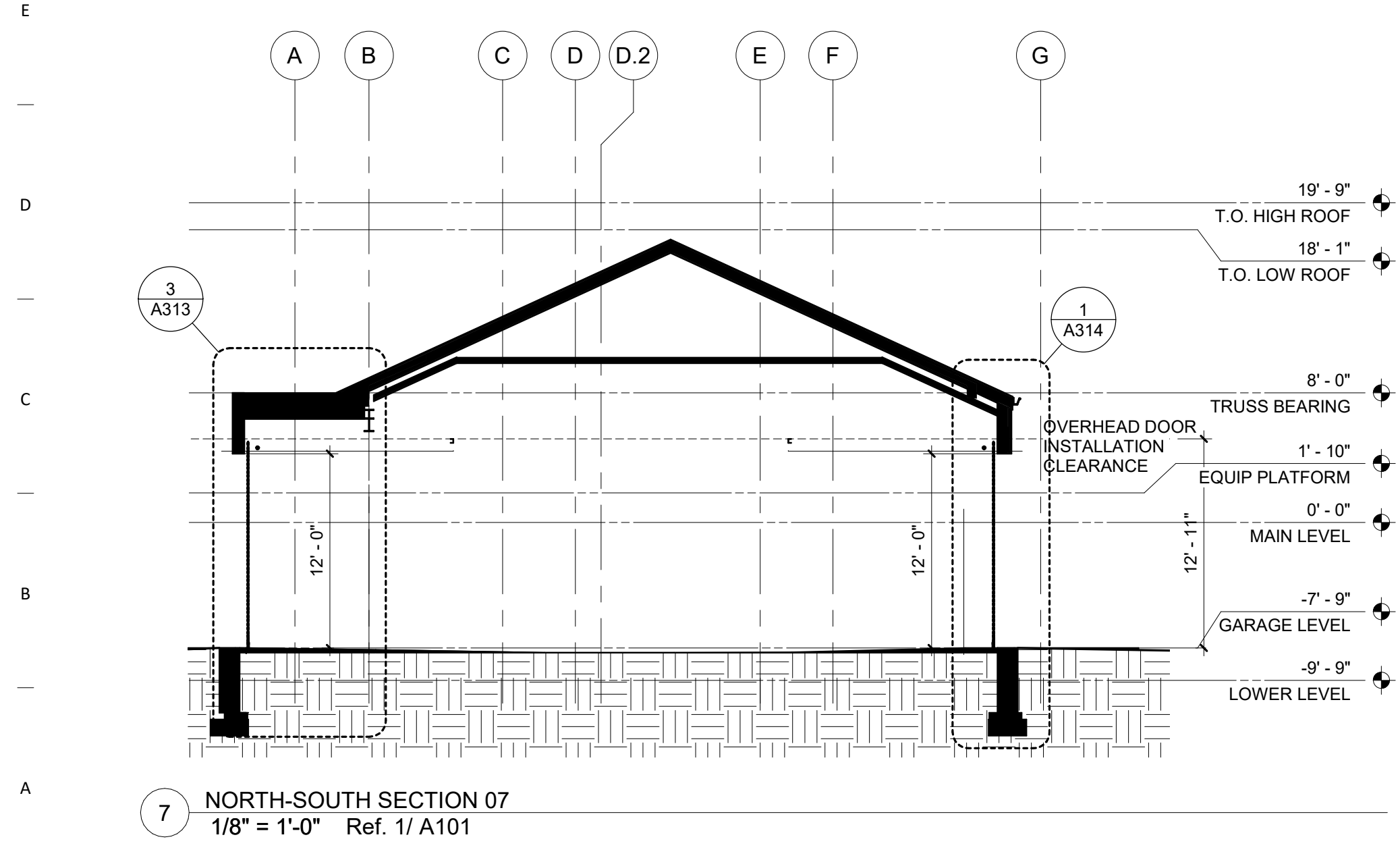
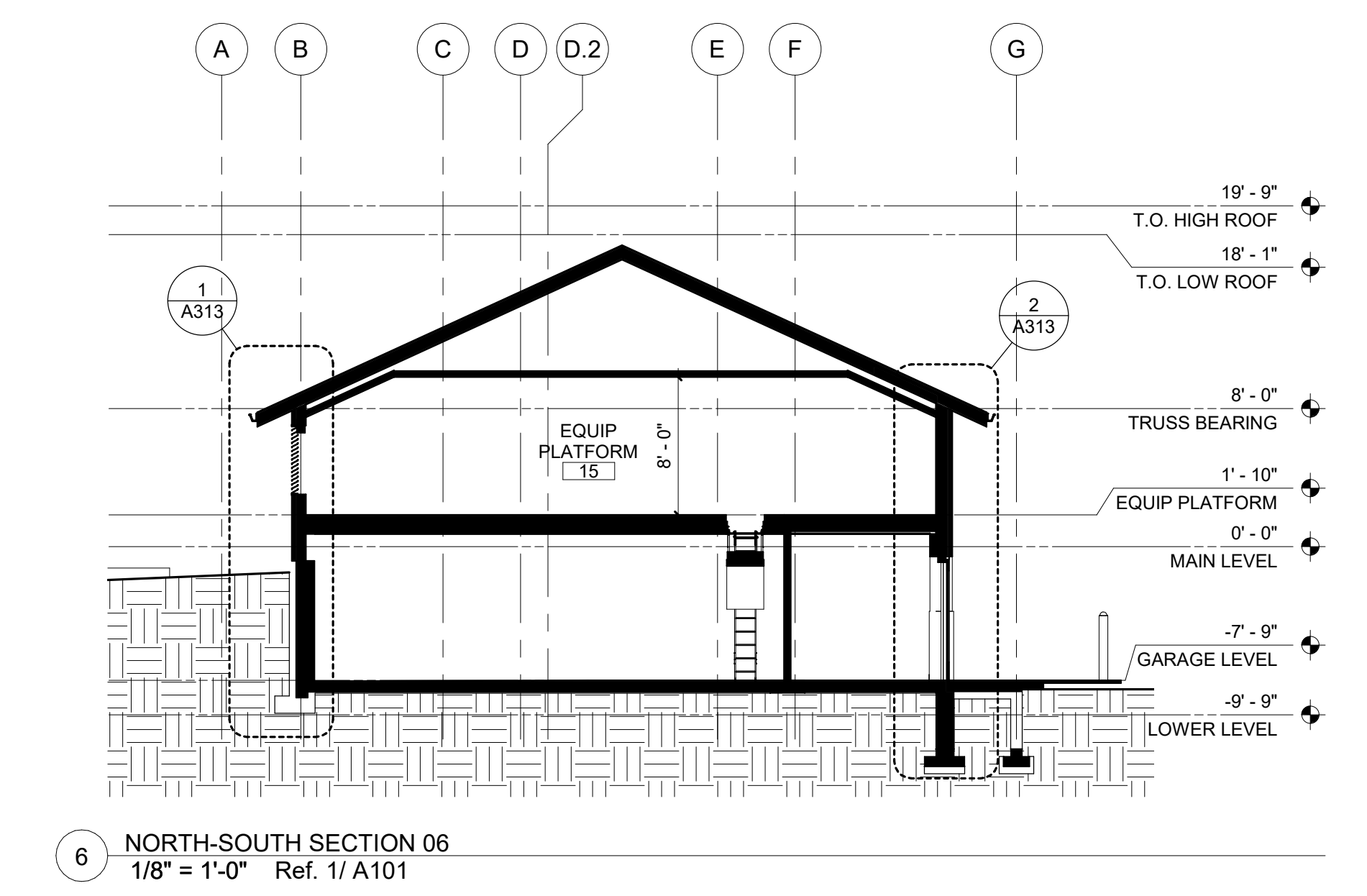
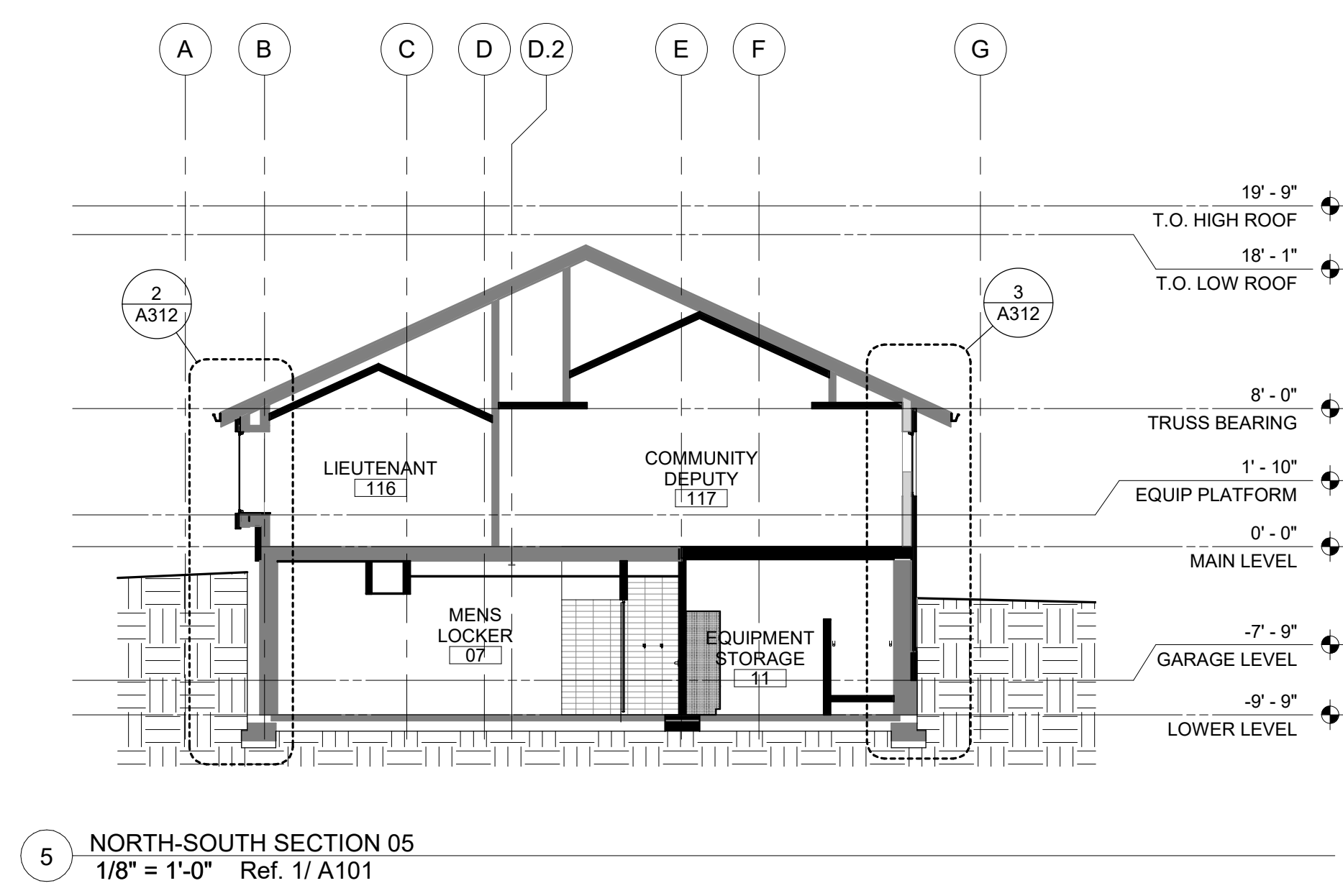
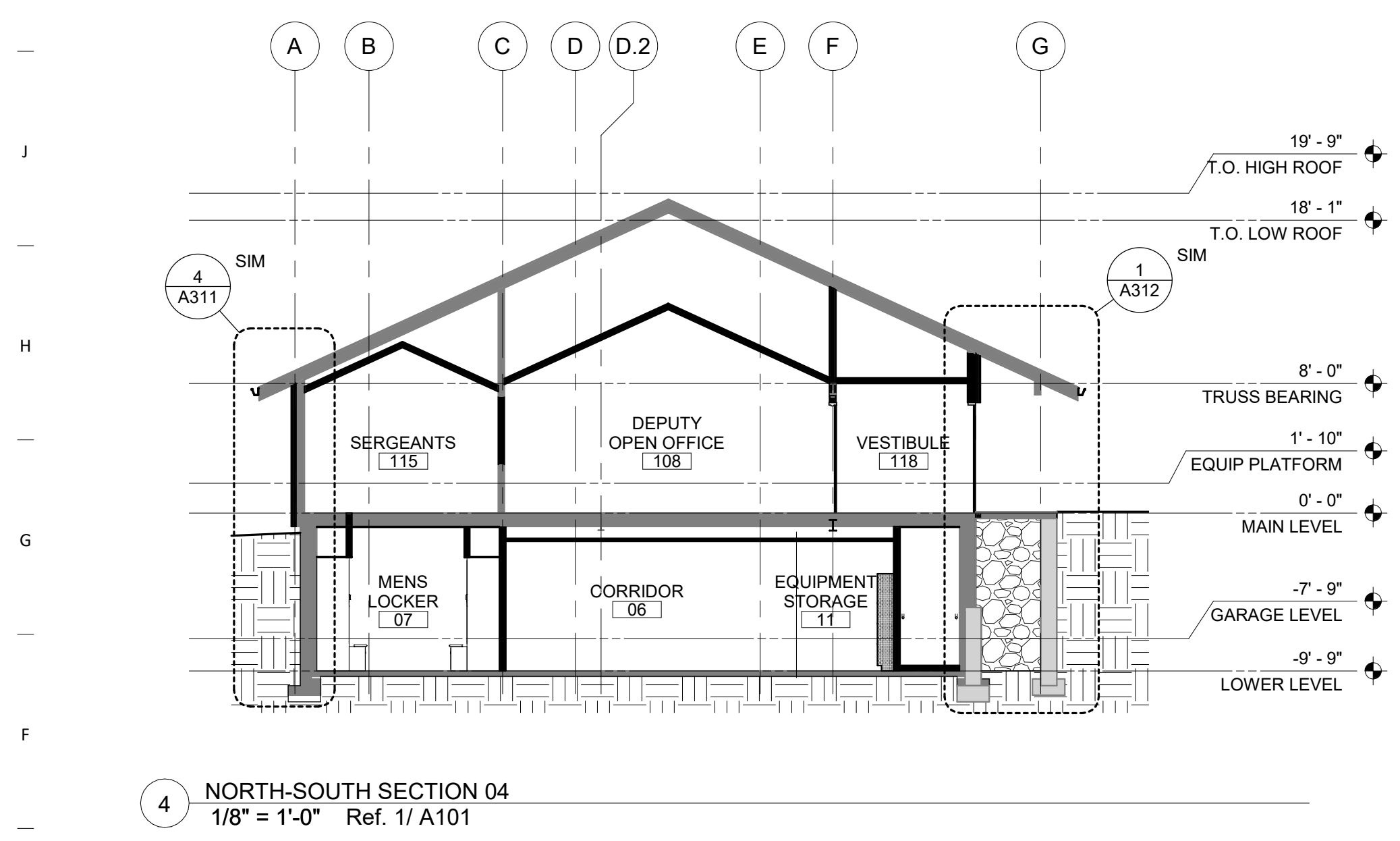
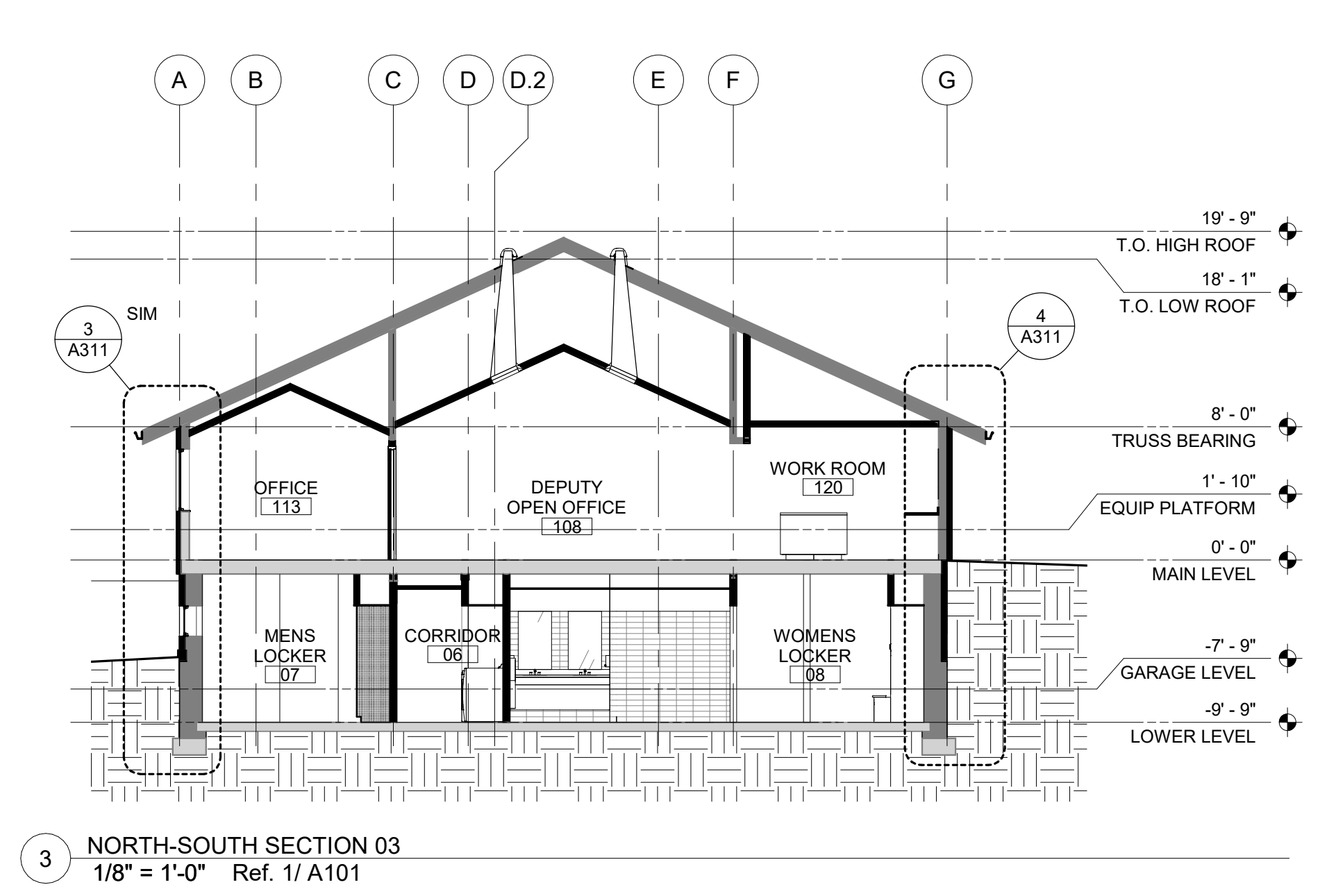
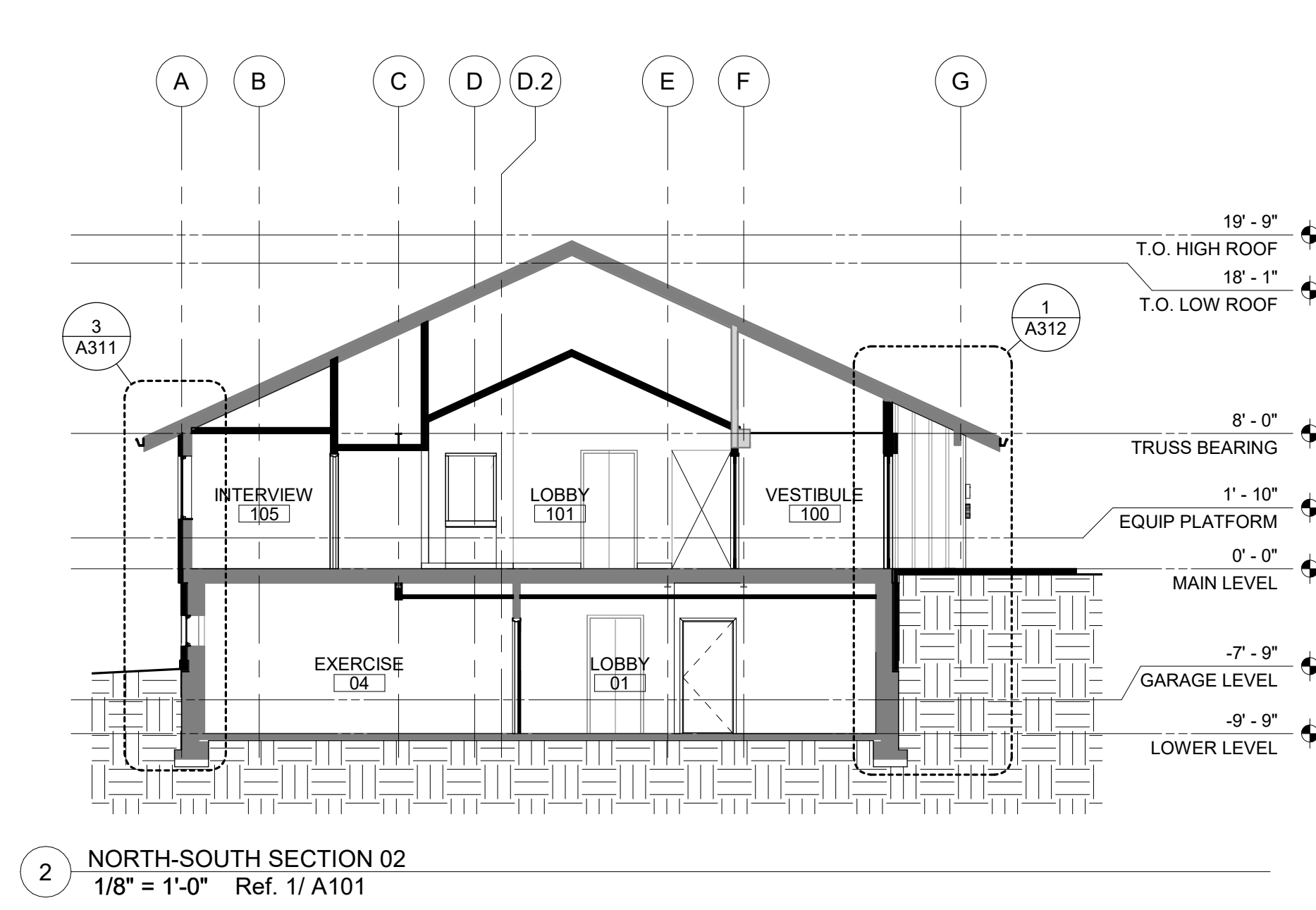
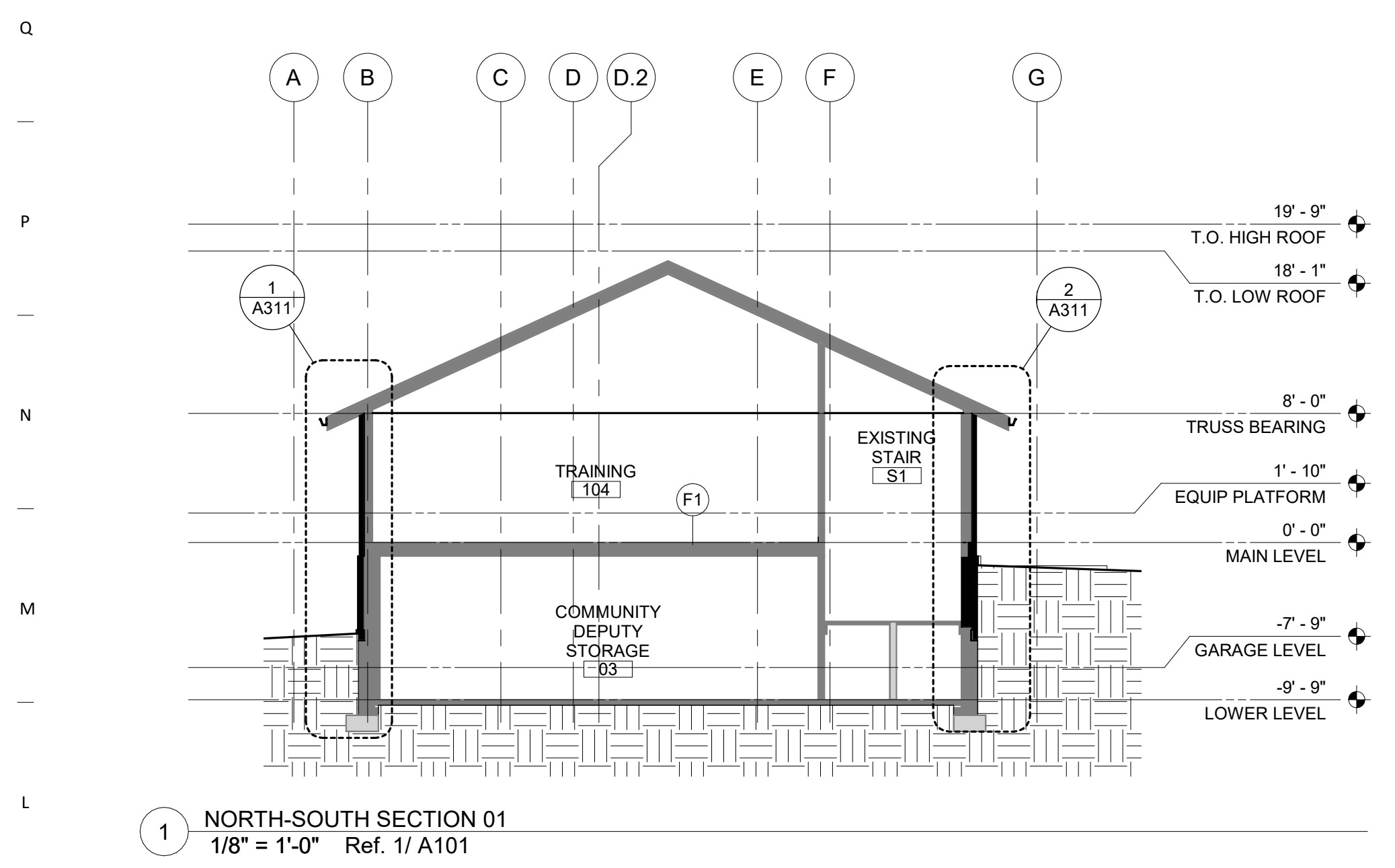
Revision	Description	Date
2	ADDENDUM 02	March 9, 2021

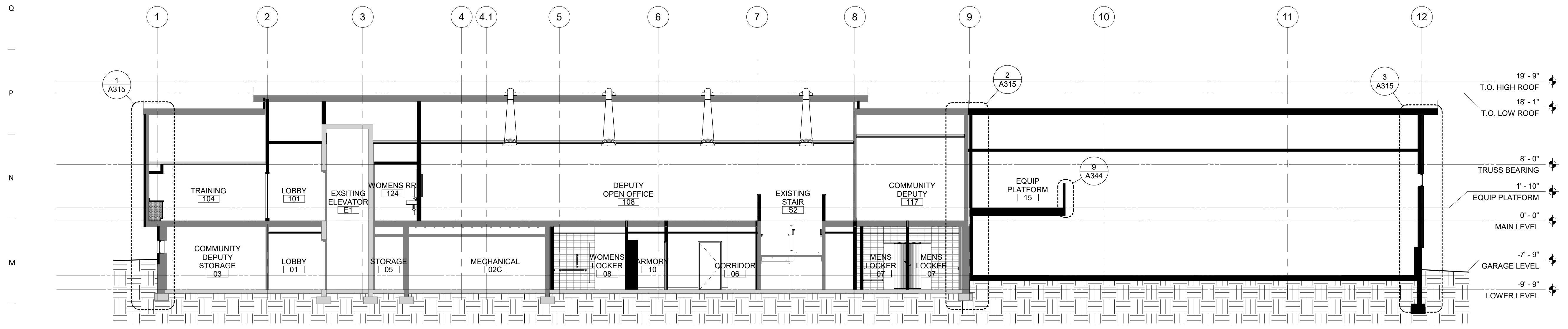
OPN Project No.
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Sheet Issue Date
CONSTRUCTION DRAWINGS February 2, 2021

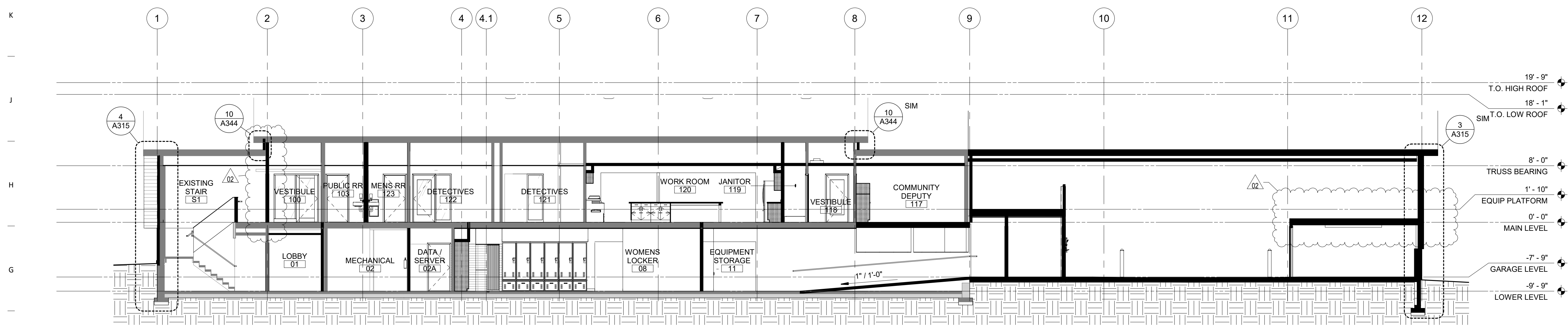
Sheet Name
BUILDING SECTIONS

Sheet Number





1 EAST-WEST SECTION 01
1/8" = 1'-0" Ref. 1/A101



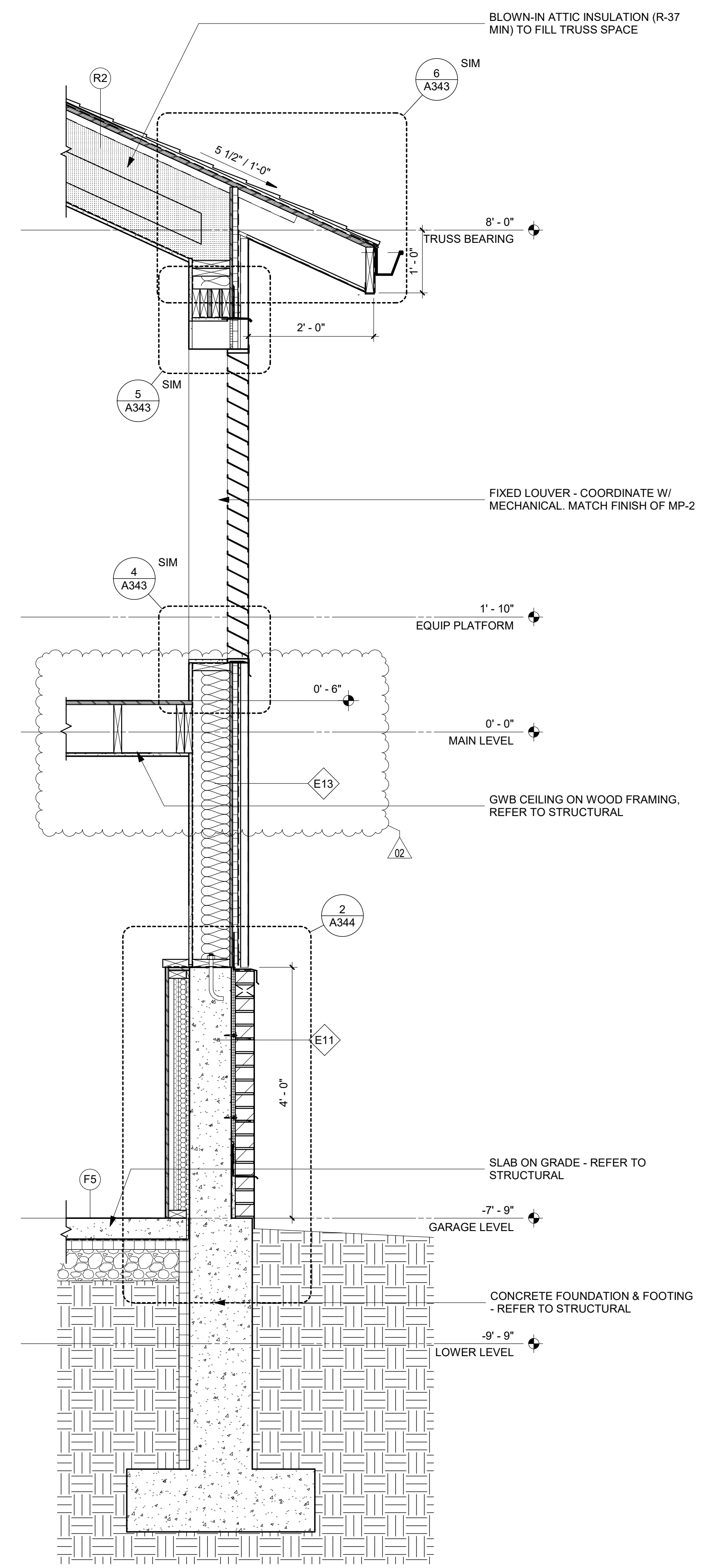
2 EAST-WEST SECTION 02
1/8" = 1'-0" Ref. 1/A101

Key Plan

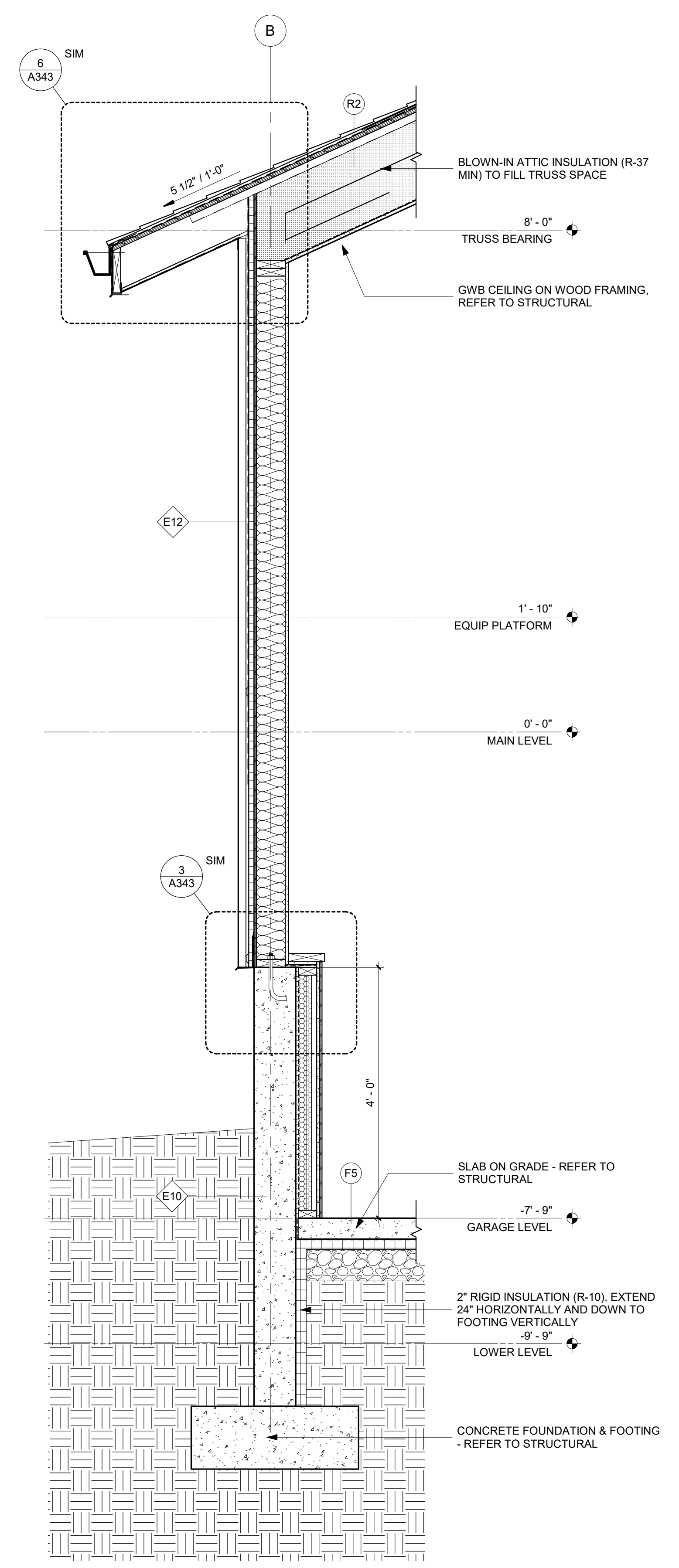
Revision	Description	Date
2	ADDENDUM 02	March 9, 2021

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2	ADDENDUM 02	March 9, 2021

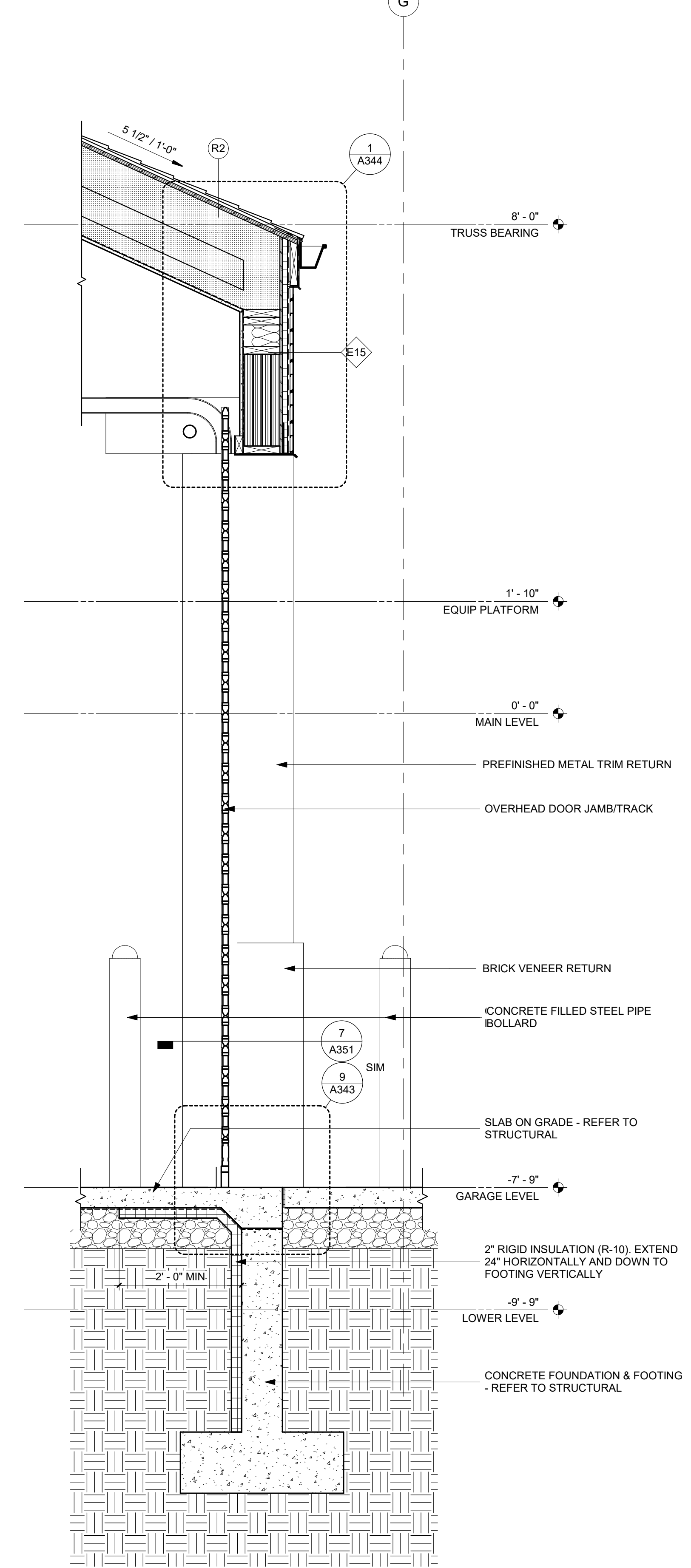
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3 WALL SECTION
3/4" = 1'-0" Ref. 8/ A301

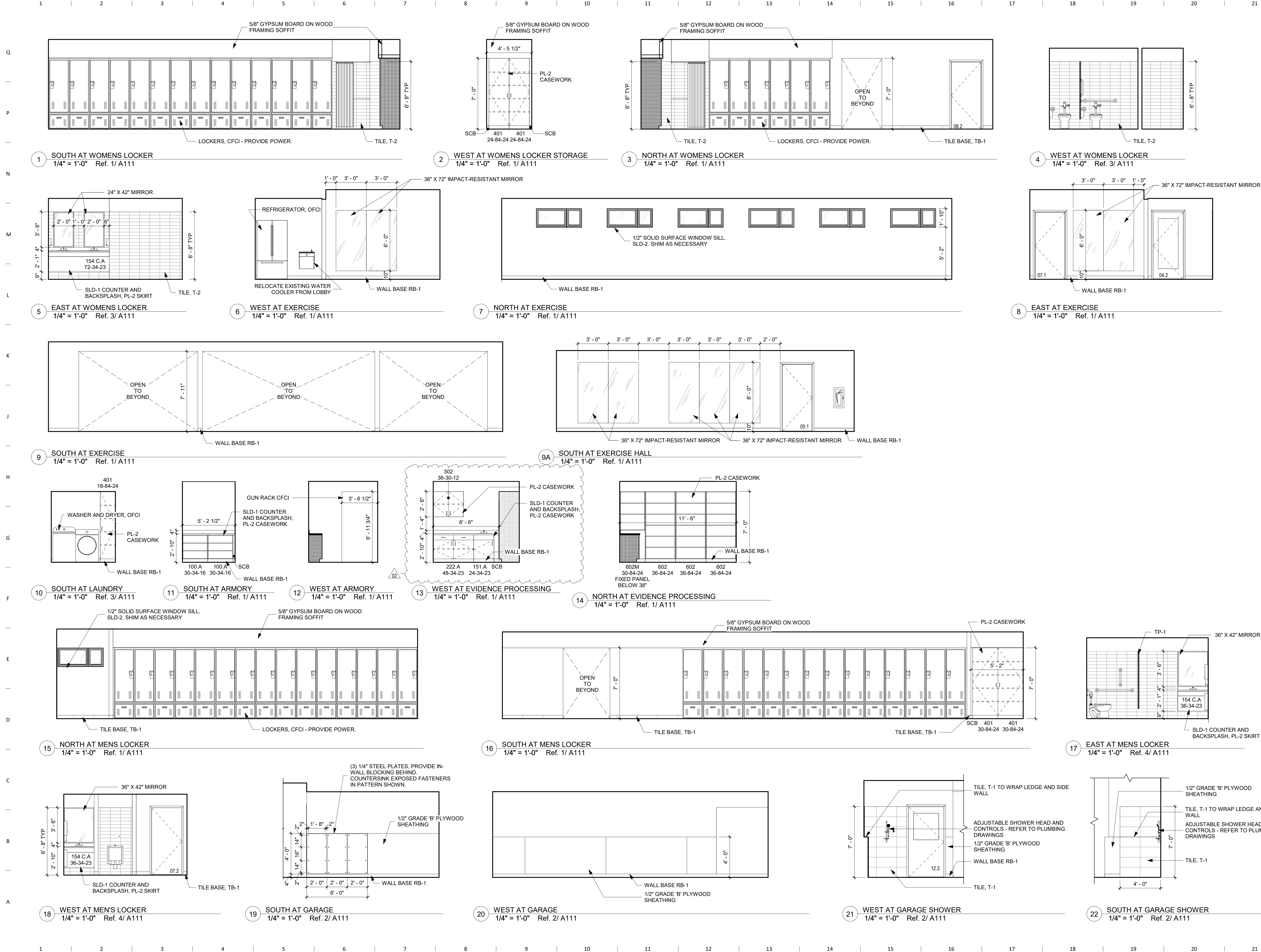


2 WALL SECTION
3/4" = 1'-0" Ref. 8/ A301



1 WALL SECTION
3/4" = 1'-0" Ref. 7/ A301

1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21

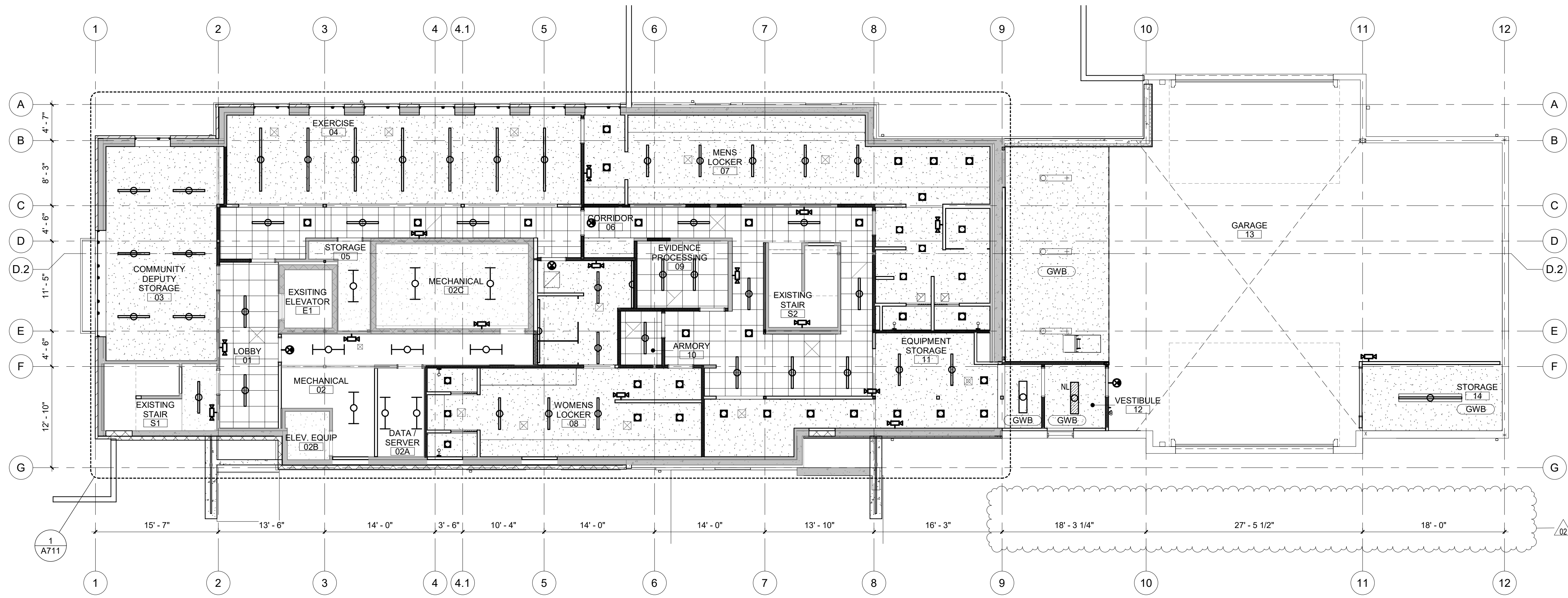


GENERAL NOTES

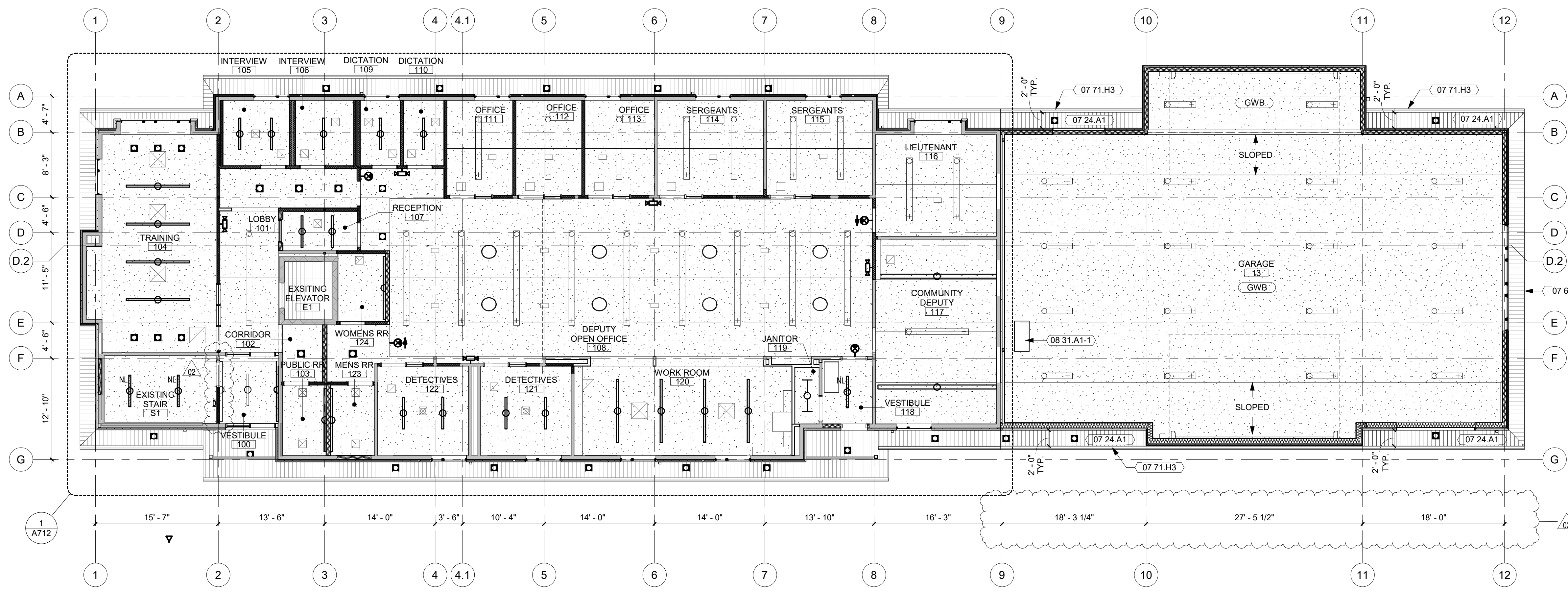
1. CEILINGS ARE TYPE A AND INSTALLED TO MATCH EXISTING ELEVATION (8'-2") UNLESS NOTED OTHERWISE.
2. CEILING-MOUNTED FIXTURES, SPRINKLERS AND EQUIPMENT SHALL BE CENTERED IN CEILING PANELS OR GYPSUM BOARD SOFFITS AND EQUALLY SPACED UNLESS NOTED OTHERWISE.
3. CENTER CEILING GRID IN ROOMS AS SHOWN UNLESS NOTED OTHERWISE.
4. CONCEALED SPRINKLER HEAD COVERS SHALL BE PAINTED BY MANUFACTURER TO MATCH ADJACENT SOFFIT/ACP UNLESS NOTED OTHERWISE.
5. COORDINATE LOCATIONS OF EXIT LIGHTS AND EMERGENCY LIGHTS SHOWN ON ARCHITECTURAL DRAWINGS. IN THE EVENT OF A DISCREPANCY, VERIFY WITH ARCHITECT PRIOR TO INSTALLATION. CEILING FIXTURE DIMENSIONS ARE TAKEN FROM CENTERLINE OF FIXTURE UNLESS NOTED OTHERWISE.
6. REFER TO ARCHITECTURAL DRAWINGS (ELEVATIONS & REFLECTED CEILING PLANS) FOR ALL MECHANICAL AND ELECTRICAL DEVICE AND FIXTURE LOCATIONS & MOUNTING HEIGHTS. IF NOT CLEARLY SPECIFIED, CONTACT ARCHITECT FOR FURTHER CLARIFICATION. MECHANICAL & ELECTRICAL DRAWINGS ARE FOR FIXTURE TYPE REFERENCE ONLY.
7. PAINT ALL EXPOSED STRUCTURE, DECK, DUCTWORK, CONDUIT, ETC. IN AREAS NOTED TO BE OPEN TO STRUCTURE UNLESS NOTED OTHERWISE. PAINTING OF EXPOSED STRUCTURE TO BE DONE AFTER ALL UTILITIES ARE INSTALLED.
8. PAINT GYP CEILINGS PT-2A / PT-2B UNLESS NOTED OTHERWISE.

KEYNOTE LEGEND

- 07 24.A1 VENTED METAL SOFFIT
- 07 62.E PREFINISHED METAL FASCIA & TRIM TO MATCH MP-3
- 07 71.H3 PREFINISHED METAL GUTTER AND FASCIA TO MATCH MP-3
- 08 31.A1-1 PULL-DOWN ALUMINUM ACCESS LADDER COORDINATE EXACT LOCATION IN FIELD W/ ARCHITECT. REFER TO SPECS FOR TYPE AND LOCATION



1 REFLECTED CEILING PLAN - LOWER LEVEL
1/8" = 1'-0"



2 REFLECTED CEILING PLAN - MAIN LEVEL
1/8" = 1'-0"

Key Plan

Revision	Description	Date
2	ADDENDUM 02	March 9, 2021

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Sheet Issue Date
CONSTRUCTION February 2, 2021
DRAWINGS

Sheet Name
REFLECTED CEILING PLANS

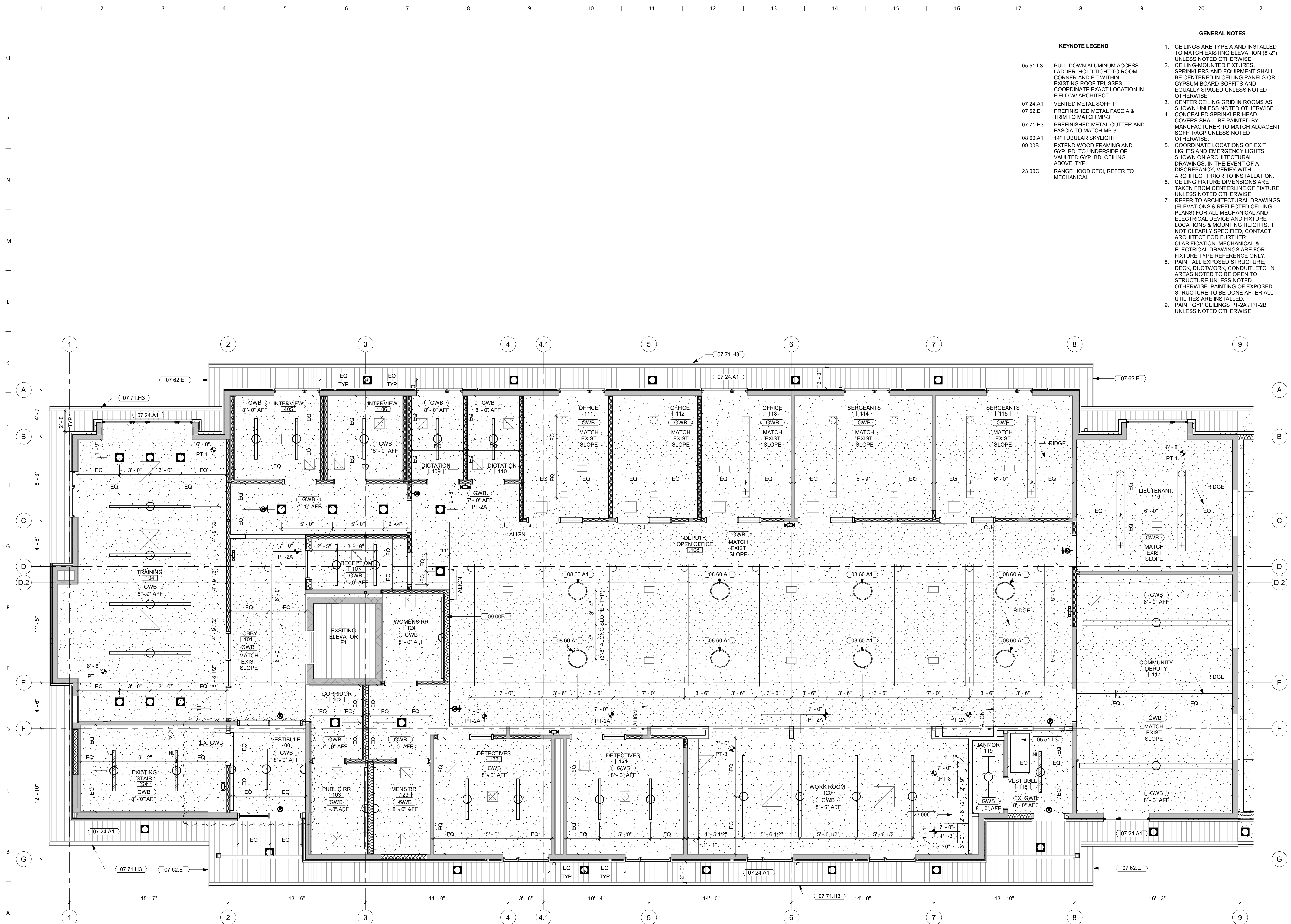
Sheet Number

GENERAL NOTES

- CEILINGS ARE TYPE A AND INSTALLED TO MATCH EXISTING ELEVATION (8'-2") UNLESS NOTED OTHERWISE
- CEILING-MOUNTED FIXTURES, SPRINKLERS AND EQUIPMENT SHALL BE CENTERED IN CEILING PANELS OR EQUALLY SPACED UNLESS NOTED OTHERWISE
- CENTER CEILING GRID IN ROOMS AS SHOWN UNLESS NOTED OTHERWISE. CONCEALED SPRINKLER HEAD COVERS SHALL BE PAINTED BY MANUFACTURER TO MATCH ADJACENT SOFFIT/ACF UNLESS NOTED OTHERWISE
- COORDINATE LOCATIONS OF EXIT LIGHTS AND EMERGENCY LIGHTS SHOWN ON ARCHITECTURAL DRAWINGS. IN THE EVENT OF A DISCREPANCY, VERIFY WITH ARCHITECT PRIOR TO INSTALLATION. CEILING FIXTURE DIMENSIONS ARE TAKEN FROM CENTERLINE OF FIXTURE UNLESS NOTED OTHERWISE
- REFER TO ARCHITECTURAL DRAWINGS (ELEVATIONS & REFLECTED CEILING PLANS) FOR ALL MECHANICAL AND ELECTRICAL DEVICE AND FIXTURE LOCATIONS & MOUNTING HEIGHTS. IF NOT CLEARLY SPECIFIED, CONTACT ARCHITECT FOR FURTHER CLARIFICATION. MECHANICAL & ELECTRICAL DRAWINGS ARE FOR FIXTURE TYPE REFERENCE ONLY.
- PAINT ALL EXPOSED STRUCTURE, DECK, DUCTWORK, CONDUIT, ETC. IN AREAS NOTED TO BE OPEN TO STRUCTURE UNLESS NOTED OTHERWISE. PAINTING OF EXPOSED STRUCTURE TO BE DONE AFTER ALL UTILITIES ARE INSTALLED.
- PAINT GYP CEILINGS PT-2A / PT-2B UNLESS NOTED OTHERWISE.

KEYNOTE LEGEND

- 05 51.L3 PULL-DOWN ALUMINUM ACCESS LADDER. HOLD TIGHT TO ROOM CORNER AND FIT WITHIN EXISTING ROOF TRUSSES. COORDINATE EXACT LOCATION IN FIELD W/ ARCHITECT
- 07 24.A1 VENTED METAL SOFFIT
- 07 62.E PREFINISHED METAL FASCIA & TRIM TO MATCH MP-3
- 07 71.H3 PREFINISHED METAL GUTTER AND FASCIA TO MATCH MP-3
- 08 60.A1 14" TUBULAR SKYLIGHT
- 09 00B EXTEND WOOD FRAMING AND GYP. BD. TO UNDERSIDE OF VAULTED GYP. BD. CEILING ABOVE, TYP.
- 23 00C RANGE HOOD CFCEI, REFER TO MECHANICAL



1 PARTIAL ENLARGED REFLECTED CEILING PLAN - MAIN LEVEL
1/4" = 1'-0" Ref. 2/A701

Key Plan

Revision	Description	Date
2	ADDENDUM 02	March 9, 2021

OPN Project No.
20628000

Sheet Issue Date
CONSTRUCTION DRAWINGS February 2, 2021

Sheet Name
ENLARGED REFLECTED CEILING PLANS

Sheet Number
A712

GENERAL NOTES

- REFER TO FINISH PLANS, REFLECTED CEILING PLANS, AND ELEVATIONS FOR LOCATION AND EXTENT OF FINISHES.
- PAINT ALL INTERIOR MISCELLANEOUS METAL GRILLES, LOUVERS ACCESS PANELS, PIPES AND CONDUIT EXPOSED TO VIEW TO MATCH THE WALLS IN WHICH THEY OCCUR UNLESS OTHERWISE NOTED.
- ALL EXPOSED DRYWALL TO RECEIVE PAINT UNLESS NOTED OTHERWISE.
- PAINT ALL REVEALS TO MATCH THE WALLS IN WHICH THEY OCCUR.
- PAINT ALL LIGHT FIXTURE TRIMS AND FLANGES OF LINEAR DIFFUSERS TO MATCH THE COLOR TO THE CEILING IN WHICH THEY OCCUR.
- PAINT ALL EXPOSED SPEAKERS WITH A PAINT THAT WILL NOT DEGRADE THEIR ACOUSTICAL PERFORMANCE IN A COLOR TO MATCH THE WALL OR CEILING IN WHICH THEY OCCUR.
- ALL PAINTED HOLLOW METAL DOORS AND FRAMES TO BE PAINTED TO MATCH THE COLOR OF THE WALL IN WHICH THEY OCCUR U.N.O.
- REFER TO ROOM FINISH SPECIFICATION FOR CARPET PATTERN AND DIRECTION & FOR ROOM FINISH SPECIFICATIONS AND ADDITIONAL INFORMATION.
- ALL FLOORING MATERIAL TRANSITIONS, TERMINATION AND SEAM LOCATIONS ARE TO BE CENTERED UNDER DOOR LEAFS IN CLOSED POSITION U.N.O.
- EXTEND FLOORING INTO TOE SPACES, DOOR REVEALS, CLOSETS AND SIMILAR OPENINGS U.N.O.
- PROVIDE FLOORING TRANSITION STRIPS AT FLOOR MATERIAL CHANGES. COORDINATE FLOORING, TRANSITION MATERIAL, PROFILE, AND COLOR WITH ARCHITECT PRIOR TO INSTALLATION-REFER TO DETAIL DRAWINGS FOR DESIGN INTENT.
- POWER AND DATA LOCATIONS ARE TO BE COORDINATED IN THE FIELD WITH FINAL FURNISHING PLANS PRIOR TO INSTALLATION OF BOXES, FITTINGS, AND RACEWAYS.
- ALL WALLS TO BE PAINTED PT-1 U.N.O. REFER TO ROOM FINISH SCHEDULE FOR ADDITIONAL FINISH INFORMATION.
- ALL ELECTRICAL COVER PLATES TO BE BLACK AT PT-3, WHITE ALL OTHER LOCATIONS.

FINISH LEGEND

	T-1
	CPT-1
	CPT-2
	RF-1 / RF-3
	RF-2
	SEALED CONCRETE
	EXISTING/NO FINISH

WALL FINISH TO BE PT-1 / PT-1A U.N.O.

Key Plan

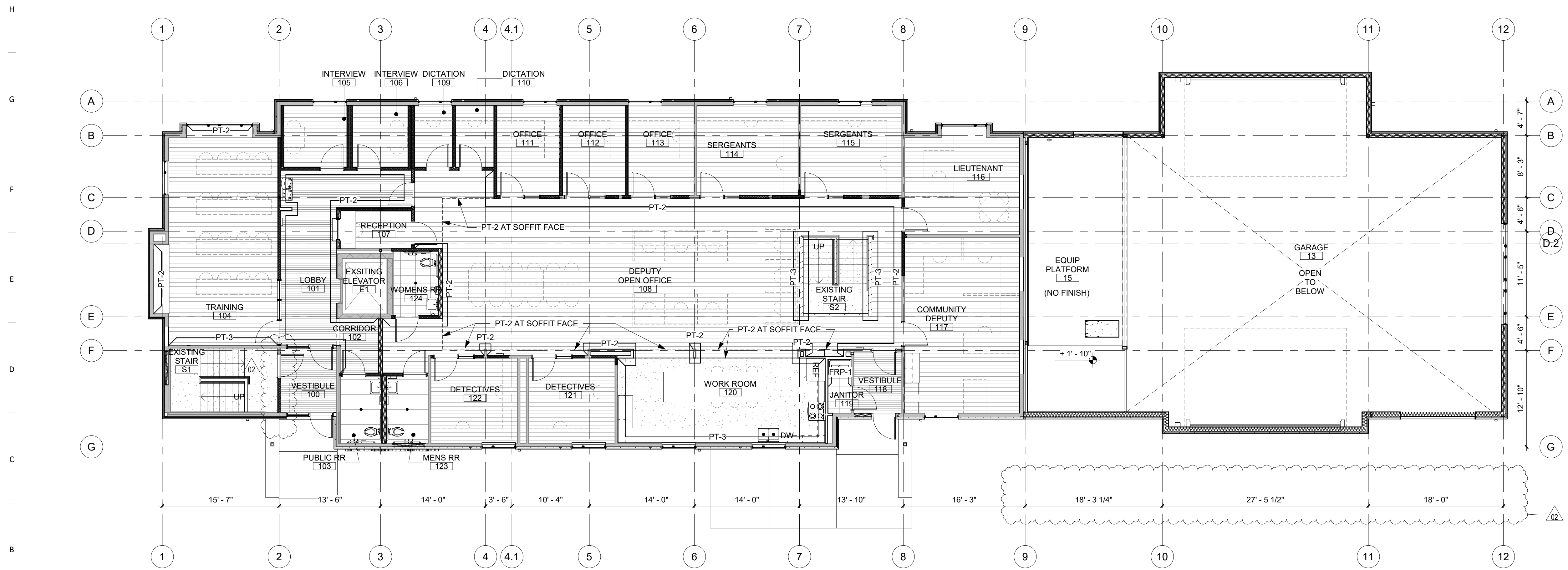
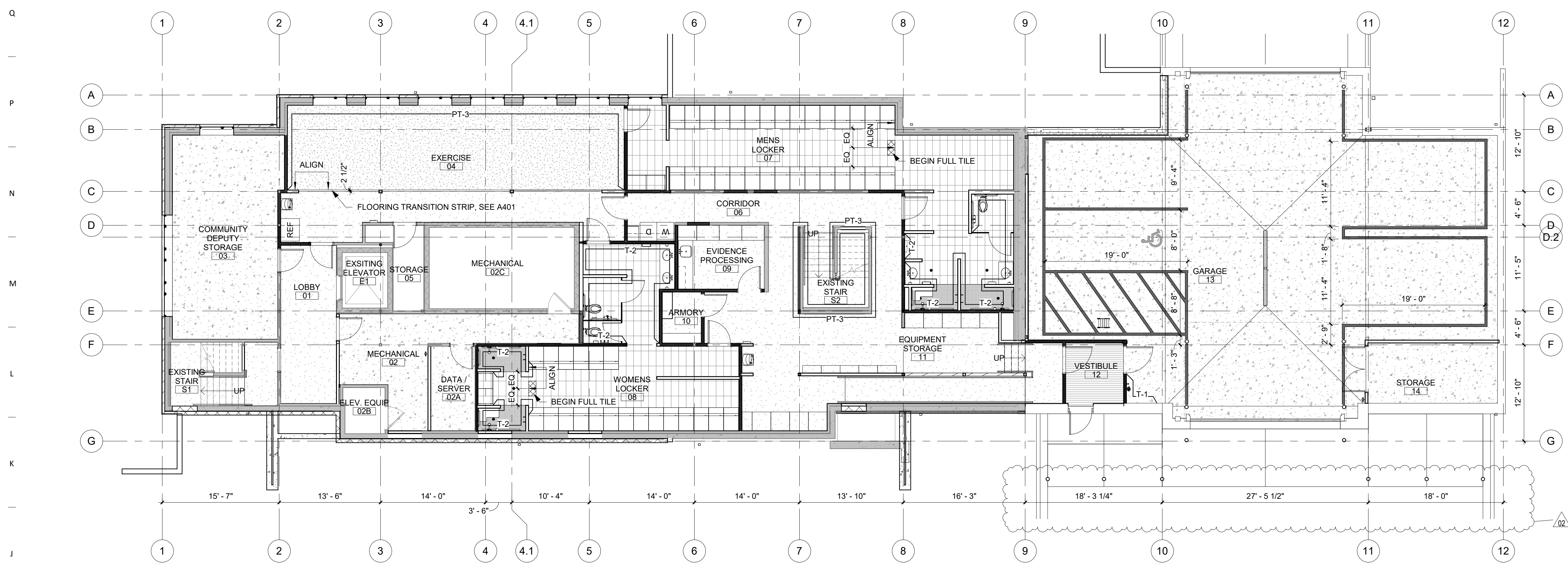
Revision	Description	Date
2	ADDENDUM 02	March 9, 2021

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20628000

Sheet Issue Date
CONSTRUCTION February 2, 2021
DRAWINGS

Sheet Name
FINISH FLOOR PLANS

Sheet Number



STRUCTURAL SHEET INDEX table with columns: SHEET NUMBER, SHEET NAME, CURRENT REVISION DATE, CURRENT REVISION DESCRIPTION

GENERAL NOTES

- 1. THE CONTRACTOR IS RESPONSIBLE FOR JOB SITE SAFETY REQUIREMENTS.
2. THE BUILDING STRUCTURE IS DESIGNED TO FUNCTION AS A COMPLETE SYSTEM...
3. THE CONTRACTOR IS RESPONSIBLE FOR CONSTRUCTION MEANS AND METHODS...
4. DO NOT SCALE THE DRAWINGS.
5. THE CONTRACTOR IS REQUIRED TO COORDINATE THE STRUCTURAL DRAWINGS WITH THE ARCHITECTURAL, CIVIL, MECHANICAL, ELECTRICAL, AND PLUMBING DRAWINGS...
6. THE USE OF THESE DRAWINGS AND SPECIFICATIONS SHALL BE RESTRICTED AND LIMITED TO THE ORIGINAL SITE FOR WHICH THEY WERE PREPARED...
7. DETAILS, SECTION CUTS AND NOTES INDICATED ON THESE DRAWINGS APPLY TO ALL SIMILAR CONDITIONS...

COMPONENTS & CLADDING WIND DESIGN PRESSURES (ULTIMATE)

Table with columns: COMPONENTS (ROOFS, WALLS, OVERHANGS), ZONE, POSITIVE (PSF), NEGATIVE (PSF)

CAST IN PLACE CONCRETE NOTES

- 1. SEE SPECIFICATION DIVISION 03 FOR REQUIREMENTS IN ADDITION TO THOSE LISTED BELOW.
2. MATERIAL SPECIFICATIONS: FINISHES, FOUNDATION WALLS, SLAB ON GRADE, PRECAST PLANK TOPPING, CONCRETE NOT OTHERWISE NOTED, MILD REINFORCING STEEL BARS, FIBER REINFORCING FOR SLABS, ANCHOR RODS.
3. SUBMIT CONCRETE MIX DESIGNS, WITH REQUIRED BACKUP DATA, INCLUDING RECENT GRADATIONS FOR EACH AGGREGATE USED...
4. PROVIDE AIR-ENTERTAINING IN CONCRETE AS INDICATED IN THE SPECIFICATIONS.
5. ALL CONCRETE SHALL BE NORMAL WEIGHT (APPROX. 145 PCF) UNO.
6. SUBMIT DETAILED SHOP DRAWINGS INDICATING REINFORCEMENT SIZE, SPACING, BENDING, AND PLACEMENT TO THE ARCHITECT AND ENGINEER FOR REVIEW PRIOR TO FABRICATION...
7. THE MAXIMUM TOTAL AMOUNT OF WATER THAT MAY BE ADDED TO THE MIX AFTER BATCHING IS THE AMOUNT INDICATED AS BEING WITHHELD ON THE BATCH TICKET FOR THE SPECIFIC BATCH.
8. SUBMIT ELECTRONIC COPIES OF ALL CONCRETE DELIVERY TICKETS WITHIN 5 DAYS OF PLACEMENT...
9. DETAIL, FABRICATE, SUPPORT, AND PLACE ALL CONCRETE REINFORCEMENT IN ACCORDANCE WITH ACI 315 'DETAILS AND DETAILING OF CONCRETE REINFORCEMENT' AND ACI 318 'BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE'...
10. COVERAGE FOR REINFORCEMENT SHALL NOT BE NOT LESS THAN:

Table with columns: CONDITION, COVER. Rows include: CONCRETE CAST AGAINST AND PERMANENTLY EXPOSED TO EARTH (3"), CONCRETE EXPOSED TO EARTH OR WEATHER (#5 BARS AND SMALLER #8 THROUGH #18 BARS) (1-1/2" / 2"), CONCRETE NOT EXPOSED TO WEATHER OR IN CONTACT WITH GROUND (SLABS, WALLS, & JOISTS #14 AND #11 BARS AND SMALLER BEAMS AND COLUMNS PRIMARY REINFORCEMENT, TIES, & SPIRALS) (1-1/2" / 3/4")

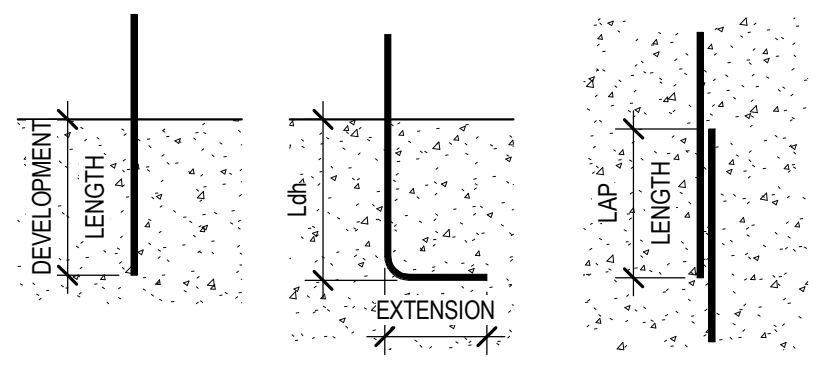
- 11. SEE DETAIL S001 FOR CLASS B TENSION CONTACT LAP SPLICE LENGTHS. STAGGER ADJACENT LAPS 3'-0" UNO.
12. PROVIDE (2) # 5 BARS DIAGONAL AT CORNERS OF OPENINGS AND AT RE-ENTRANT CORNERS. PROVIDE (2) # 5 BARS AROUND THE PERIMETER OF OPENINGS WITH SIDES EXCEEDING 18 INCHES IN LENGTH.
13. WELDING OF GRADE A615 REINFORCING BARS IS NOT PERMITTED.
14. COORDINATE LOCATION OF ALL CONSTRUCTION JOINTS WITH ENGINEER PRIOR TO COMMENCEMENT OF CONCRETE WORK...
15. CLEAN AND MOISTEN ALL CONSTRUCTION JOINTS IMMEDIATELY PRIOR TO PLACING FRESH CONCRETE.
16. UNLESS NOTED OTHERWISE, PROVIDE DOWELS TO MATCH MAIN REINFORCEMENT SIZE AND SPACING. PROVIDE TENSION LAP SPLICE UNLESS NOTED OTHERWISE.
17. REFER TO THE ARCHITECTURAL, MECHANICAL, ELECTRICAL, AND PLUMBING DRAWINGS FOR CURBS, PADS, DEPRESSIONS, WALL/SLAB OPENINGS, REVEALS, REGLETS, DRIPS, SPECIAL FLOOR FINISHES, AND OTHER REQUIREMENTS NOT SHOWN ON STRUCTURAL DRAWINGS.
18. ALUMINUM CONDUIT SHALL NOT BE EMBEDDED IN CONCRETE.
19. DO NOT CAST OPENINGS OTHER THAN INDICATED ON THE REVIEWED SHOP DRAWINGS WITHOUT WRITTEN CONSENT OF ENGINEER OF RECORD. DO NOT CORE HOLES IN COLUMNS, BEAMS, JOISTS, WALLS, OR STRUCTURAL CONCRETE SLABS WITHOUT WRITTEN CONSENT OF THE ENGINEER OF RECORD.
20. REFER TO ACI 306 FOR REQUIREMENTS FOR PLACING CONCRETE IN HOT WEATHER AND TO ACI 306 FOR REQUIREMENTS FOR PLACING CONCRETE IN COLD WEATHER.

Table for REBAR LAP SPLICE LENGTHS with columns: BAR SIZE, DEVELOPMENT LENGTHS, CLASS "B" TENSION LAP SPLICE LENGTHS, STD HOOK DEVELOPMENT LENGTH, Ldh

NOTES:

- 1. TOP BARS ARE DEFINES AT HORIZONTAL BARS WITH MORE THAN 12" OF CONCRETE BELOW.
2. TABLE VALUES BASED ON 1 1/2" CLEAR COVER AND MINIMUM CENTER TO CENTER BAR SPACING OF 6".
3. SPLICE LENGTH SHALL BE BASED ON LARGER BAR BEING SPLICED.
4. HOOKED BAR EXTENSION = MIN. BEND DIAMETER + 12db
5. MIN. BEND DIAMETER = 6db FOR #3 - #8 (8db FOR #9 - #11)
6. HOOKED BAR DEVELOPMENT LENGTHS, Ldh, ASSUME a) SIDE COVER ≥ 2 1/2" AND b) COVER AT END OF EXTENSION ≥ 2"

S001 REBAR LAP SPLICE LENGTHS



SLAB ON GRADE NOTES

- 1. PREPARE SUBGRADE AS INDICATED IN SOIL REPORT. AT A MINIMUM, PROOF ROLL AND REMOVE ALL SOFT AREAS AND REPLACE WITH COMPATIBLE FILL.
2. SEE SPECIFICATIONS FOR SLAB ON GRADE VAPOR BARRIER.
3. UNDER SLAB GRANULAR FILL PER GEOTECHNICAL REPORT.
4. SAWCUT SLABS ON GRADE AT A MAXIMUM SPACING OF 24 TO 36 TIMES THE SLAB THICKNESS, WITH A PANEL WIDTH TO LENGTH RATIO NOT TO EXCEED 1.5. START SAWCUTTING WITH EARLY ENTRY SAW AS SOON AS THE CONCRETE WILL SUPPORT THE WEIGHT OF THE SAW AND OPERATOR AND NOT RAVEL, EDGES OR DISLODGE AGGREGATE, BUT IN NO CASE MORE THAN 6 HOURS AFTER THE SLAB IS PLACED. INSTALLATION OF JOINTS DOES NOT IMPLY ANY WARRANTY AGAINST THE OCCURRENCE OF SHRINKAGE CRACKS. CONTRACTION JOINT LOCATIONS INDICATED ON SLAB ON GRADE PLAN ARE A SUGGESTED PATTERN INTENDED TO AID THE CONTRACTOR, AND DO NOT IMPLY ANY WARRANTY AGAINST THE OCCURRENCE OF SHRINKAGE CRACKS.
5. SEE ARCHITECTURAL DRAWINGS FOR LOCATIONS AND SIZES OF SLAB DEPRESSIONS.
6. SLAB ON GRADE REQUIRES FIBER REINFORCING. SEE SPECIFICATIONS FOR APPROVED MANUFACTURERS AND MINIMUM QUANTITIES.
7. SLAB ON GRADE THICKNESS, ELEVATION AND FLATNESS / LEVELNESS TOLERANCES: THICKNESS: PLUS 3/8 INCHES, MINUS 0 INCHES ELEVATION: SEE PLANS FLATNESS / LEVELNESS: SEE SPECIFICATIONS
8. IN AREAS REQUIRING ADHERED FLOORING, DO NOT HARD TROWEL FINISH THE CONCRETE SLAB UNLESS INDICATED ON THE PLANS. CONCRETE IN THESE AREAS SHOULD HAVE AN OPEN PORE STRUCTURE WHEN FINISHED TO FACILITATE SLAB DRYING, AND FLOORING ADHESION.
9. WET CURE SLAB UNLESS NOTED OTHERWISE ON DRAWINGS.

STRUCTURAL STEEL NOTES

- 1. SEE SPECIFICATION DIVISION 05 SECTION OR REQUIREMENTS IN ADDITION TO THOSE LISTED BELOW.
2. PROVIDE NEW MATERIAL CONFORMING TO THE FOLLOWING REQUIREMENTS FOR ALL STRUCTURAL STEEL: WIDE FLANGE SHAPES (ASTM A992) M, S, HP, C, MC, AND L SHAPES (ASTM A36) Fy = 50 ksi; Fu = 65 ksi Fy = 36 ksi; Fu = 58 ksi RECTANGULAR HSS SHAPES (ASTM A500-B) Fy = 46 ksi; Fu = 58 ksi ROUND HSS SHAPES (ASTM A500-B) Fy = 42 ksi; Fu = 58 ksi CARBON STEEL PIPE (ASTM A53-B) Fy = 35 ksi; Fu = 60 ksi PLATES AND BARS (ASTM A36) Fy = 36 ksi; Fu = 58 ksi
3. DETAIL, FABRICATE AND ERECT STRUCTURAL STEEL IN CONFORMANCE WITH THE AISC SPECIFICATIONS AND CODES INDICATED.
4. PERFORM ALL WELDING USING CERTIFIED WELDERS AND IN ACCORDANCE WITH THE AWS 'STRUCTURAL WELDING CODE - STEEL'.
5. SUBMIT SHOP DRAWINGS TO THE ARCHITECT/ENGINEER FOR REVIEW. SHOW SHOP FABRICATION DETAILS, FIELD ASSEMBLY DETAILS, AND ERECTION DIAGRAMS FOR ALL STRUCTURAL STEEL. SCHEDULE SUBMISSIONS TO ALLOW ADEQUATE TIME FOR REVIEW PRIOR TO FABRICATION.
6. DETAIL ALL BEAMS FRAMING INTO CONCRETE WALLS, BEAMS OR COLUMNS TO ALLOW FOR HORIZONTAL FIELD TOLERANCES AND THERMAL MOVEMENT. PROVIDE CONNECTION DETAILS REQUIRED BY THE SPECIFIC CONSTRUCTION SEQUENCES.
7. PROVIDE SUITABLE BEARING PLATES AND ANCHOR RODS FOR BEAMS, JOISTS, OR GIRDERS WHICH BEAR ON WALLS. LOCATE ITEMS USING TEMPLATES OR SIMILAR METHODS. SET ALL PLATES IN FULL BEDS OF NON-SHRINK GROUT. COMPLETELY FILL ALL BEAM AND COLUMN POCKETS WITH CONCRETE PRIOR TO CASTING CONCRETE ABOVE.
8. REFER TO THE ARCHITECTURAL DRAWINGS FOR THE REQUIRED FIRE RATINGS AND UL ASSEMBLY NUMBERS
9. DO NOT FIELD CUT ANY STRUCTURAL STEEL UNLESS REVIEWED AND APPROVED IN WRITING BY THE EOR. CLEARLY INDICATE ALL STEEL MEMBER OPENINGS REQUIRED ON THE SHOP DRAWINGS. ALL COSTS FOR PROVIDING PENETRATIONS IN THE FIELD, INCLUDING MEMBER REINFORCING, IS THE RESPONSIBILITY OF THE CONTRACTOR.
10. ERECTION PROCEDURES, SEQUENCES AND COORDINATION OF WORK WITH OTHER TRADES IS THE RESPONSIBILITY OF THE CONTRACTOR. PROVIDE ANY ADDITIONAL STEEL REQUIRED FOR ERECTION PURPOSES AT NO COST TO THE OWNER. REMOVE THIS ADDITIONAL STEEL UNLESS DIRECTED OTHERWISE BY THE OWNER IN WRITING.
11. PROVIDE TEMPORARY BRACING AND SHORING AS REQUIRED FOR THE SAFETY, STABILITY AND ALIGNMENT OF THE STRUCTURE. LEAVE TEMPORARY BRACING IN PLACE UNTIL THE PERMANENT STRUCTURAL LATERAL LOAD RESISTING SYSTEM IS COMPLETE, INCLUDING FLOOR AND ROOF DIAPHRAGMS. PERFORM FINAL BOLTING AND WELDING ONLY ON THOSE PORTIONS OF THE STRUCTURE THAT HAVE BEEN ALIGNED AND PLUMBED WITHIN THE SPECIFIED TOLERANCES.
12. GROUT COLUMN BASE PLATES AFTER BUILDING FRAME HAS BEEN ALIGNED AND PLUMBED, AND PRIOR TO PLACEMENT OF CONCRETE FLOOR SYSTEMS (CIP CONCRETE SLABS, SLABS ON STEEL DECK, PRECAST, ETC). GROUT BEAM BEARING PLATES AFTER BEAM ALIGNMENT AND PRIOR TO PLACEMENT OF FLOOR SYSTEMS. MINIMUM GROUT STRENGTH EQUALS THE HIGHER OF 8000 PSI OR THE INDICATED COMPRESSIVE STRENGTH OF THE CONCRETE THE COLUMN IS BEARING ON.
14. ALL STRUCTURAL STEEL IN DIRECT CONTACT WITH FIRE RETARDANT TREATED (FRT) OR PRESERVATIVE TREATED LUMBER MUST BE WRAPPED WITH A BARRIER MEMBRANE (GRACE VYCOR DECK PROTECTOR OR EQUAL). ALL FASTENERS ATTACHING TREATED LUMBER TO STEEL MUST BE GALVANIZED.
15. LONG SLOTTED HOLES ARE PERMITTED ONLY WHERE SHOWN IN THE CONSTRUCTION DOCUMENTS. IF SHOWN, 5/16" PLATE WASHERS ARE REQUIRED AT ALL LOCATIONS. ALTERNATIVELY, A CONTINUOUS BAR BETWEEN LONG SLOTTED HOLES MAY BE USED.
16. ALL EXTERIOR STEEL TO BE GALVANIZED OR COATED WITH HIGH PERFORMANCE PAINT UNLESS NOTED OTHERWISE ON PLAN. VERIFY EXACT COATING REQUIREMENT WITH ARCHITECT.

SEISMIC BRACING OF MEP AND ARCHITECTURAL COMPONENTS

- 1. DUE TO BUILDING BEING ASSIGNED TO RISK CATEGORY IV (ESSENTIAL FACILITY) AND SEISMIC DESIGN CATEGORY C, SEISMIC BRACING OF MEP AND ARCHITECTURAL COMPONENTS PER ASCE 7-10 CHAPTER 13 IS REQUIRED.
2. SEISMIC BRACING OF MEP AND ARCHITECTURAL COMPONENTS IS OUTSIDE THE SCOPE OF SER'S SERVICES. CONTRACTOR SHALL HIRE SPECIALTY STRUCTURAL ENGINEER TO DETERMINE SCOPE OF BRACING REQUIRED AND DESIGN BRACING SOLUTIONS FOR ALL APPLICABLE ITEMS.
3. ALL ITEMS ASSIGNED A COMPONENT IMPORTANCE FACTOR, Ip = 1.5 REQUIRE EVALUATION AND BRACING SOLUTION BY SPECIALTY STRUCTURAL ENGINEER.

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Project: DANE COUNTY SHERIFF SE PRECINCT 125 VETERANS RD STOUGHTON, WI 53589

Civil Engineer: JSD PROFESSIONAL SERVICES, INC 161 HORIZON DRIVE SUITE 101 VERONA, WI 53593 P. 608.848.5060

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MEP Engineer: DESIGN ENGINEERS 437 S. YELLOWSTONE DR SUITE 110 MADISON, WI 53719 P. 608.424.8815

Key Plan

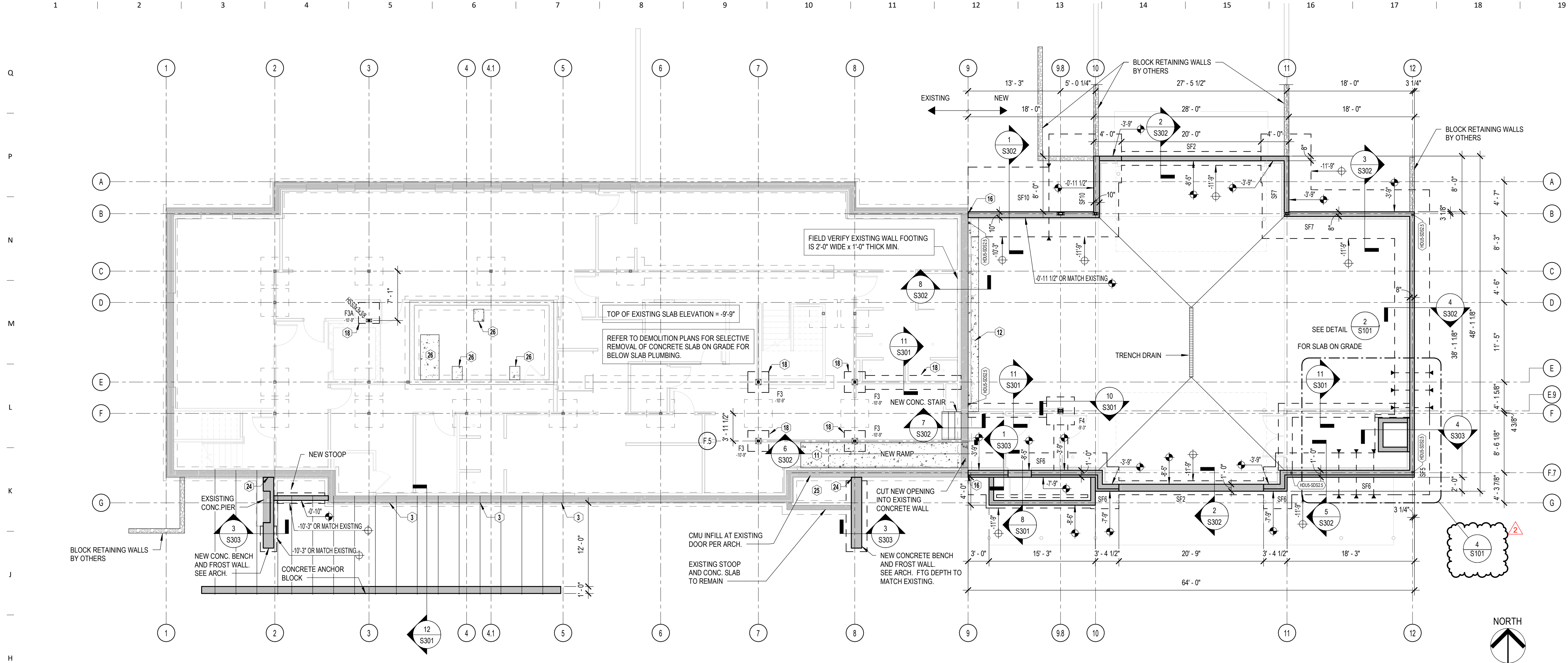
Revision table with columns: Revision, Description, Date. Row 2: ADDENUM 02, March 9, 2021

OPN Project No. 20628000

Sheet Issue Date: CONSTRUCTION DRAWINGS February 2, 2021

STRUCTURAL GENERAL NOTES

Sheet Number



1 FOUNDATION PLAN
1/8" = 1'-0"

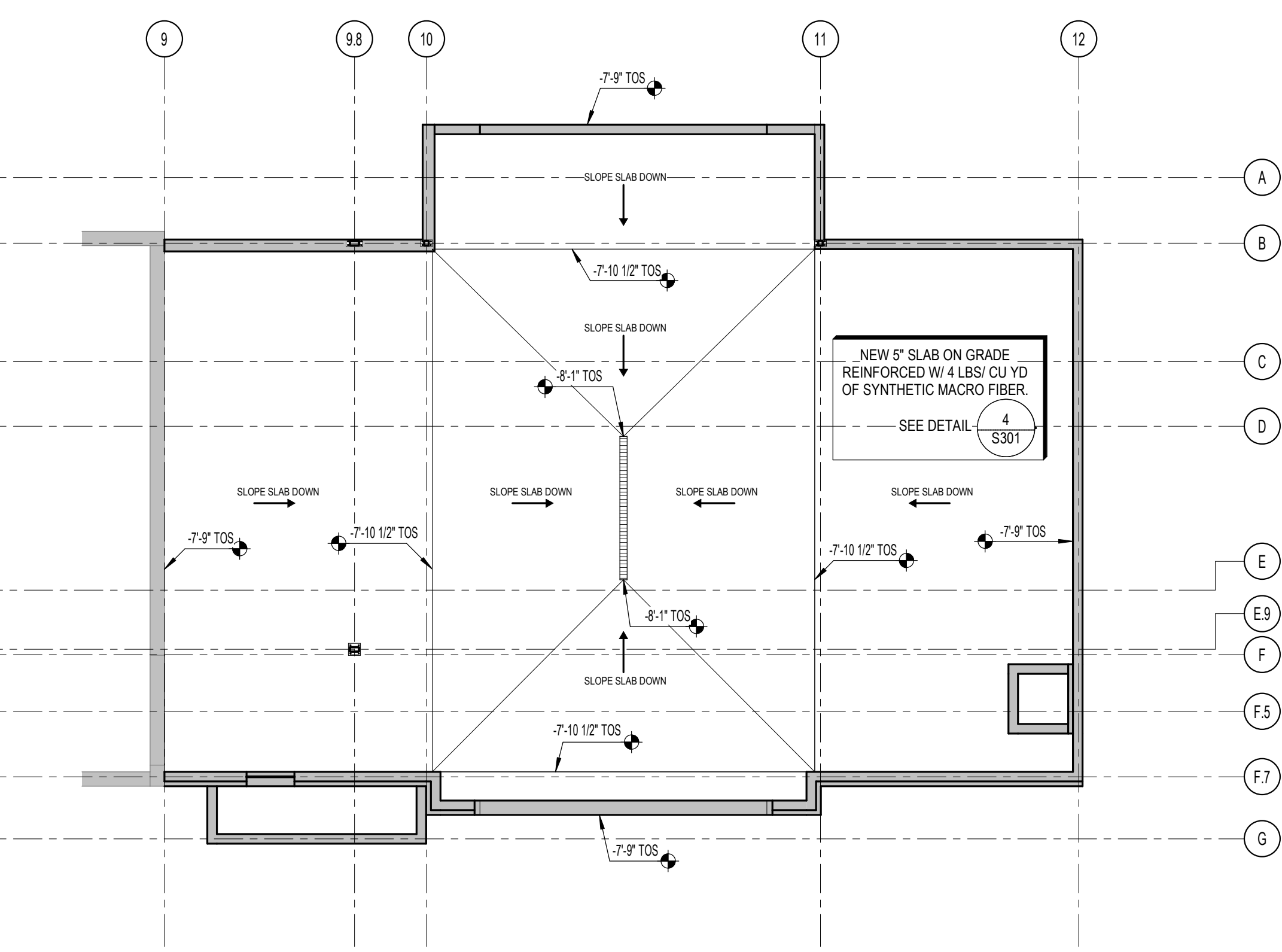
FOOTING SCHEDULE

MARK	LENGTH	WIDTH	THICKNESS	BOTTOM REINFORCEMENT	TOP REINFORCEMENT
F3	3'-0"	3'-0"	1'-0"	(4) #5 BARS EACH WAY	NONE
F3A	3'-0"	3'-0"	2'-0"	(4) #5 BARS EACH WAY	(4) #5 BARS EACH WAY
F4	4'-0"	4'-0"	1'-0"	(5) #5 BARS EACH WAY	NONE
F5	5'-0"	5'-0"	1'-0"	(6) #5 BARS EACH WAY	NONE

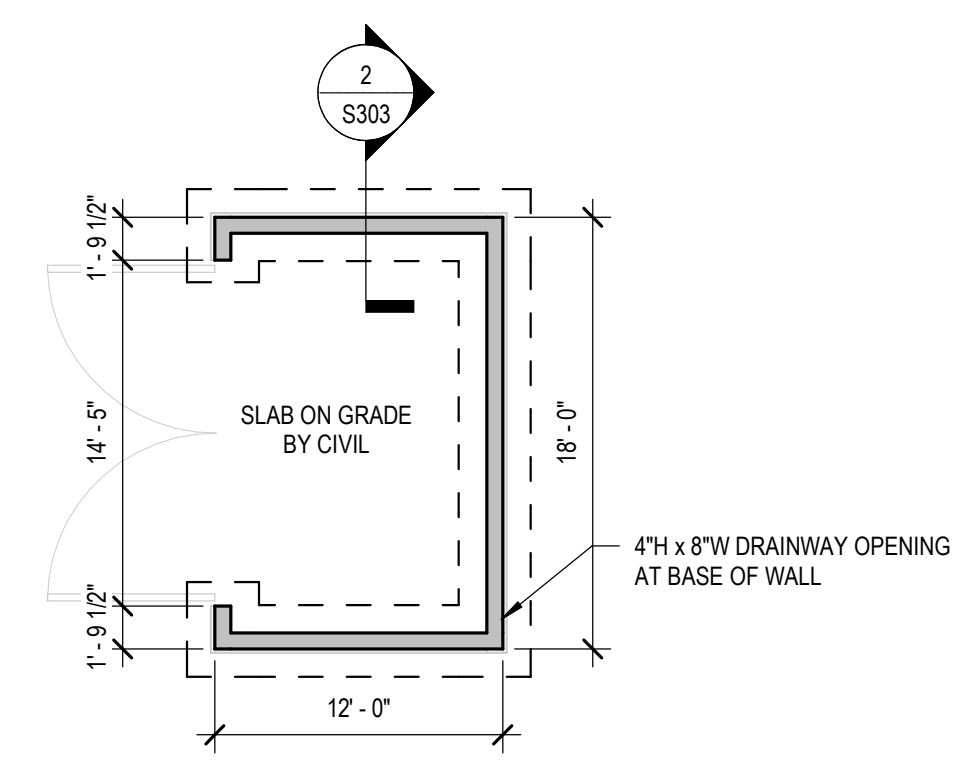
STRIP FOOTING SCHEDULE

MARK	WIDTH	THICKNESS	REINFORCEMENT
SF2	2'-0"	1'-0"	SEE DETAILS
SF5	5'-0"	1'-0"	SEE DETAILS
SF6	6'-0"	1'-0"	SEE DETAILS
SF7	7'-0"	1'-2"	SEE DETAILS
SF10	10'-0"	1'-4"	SEE DETAILS

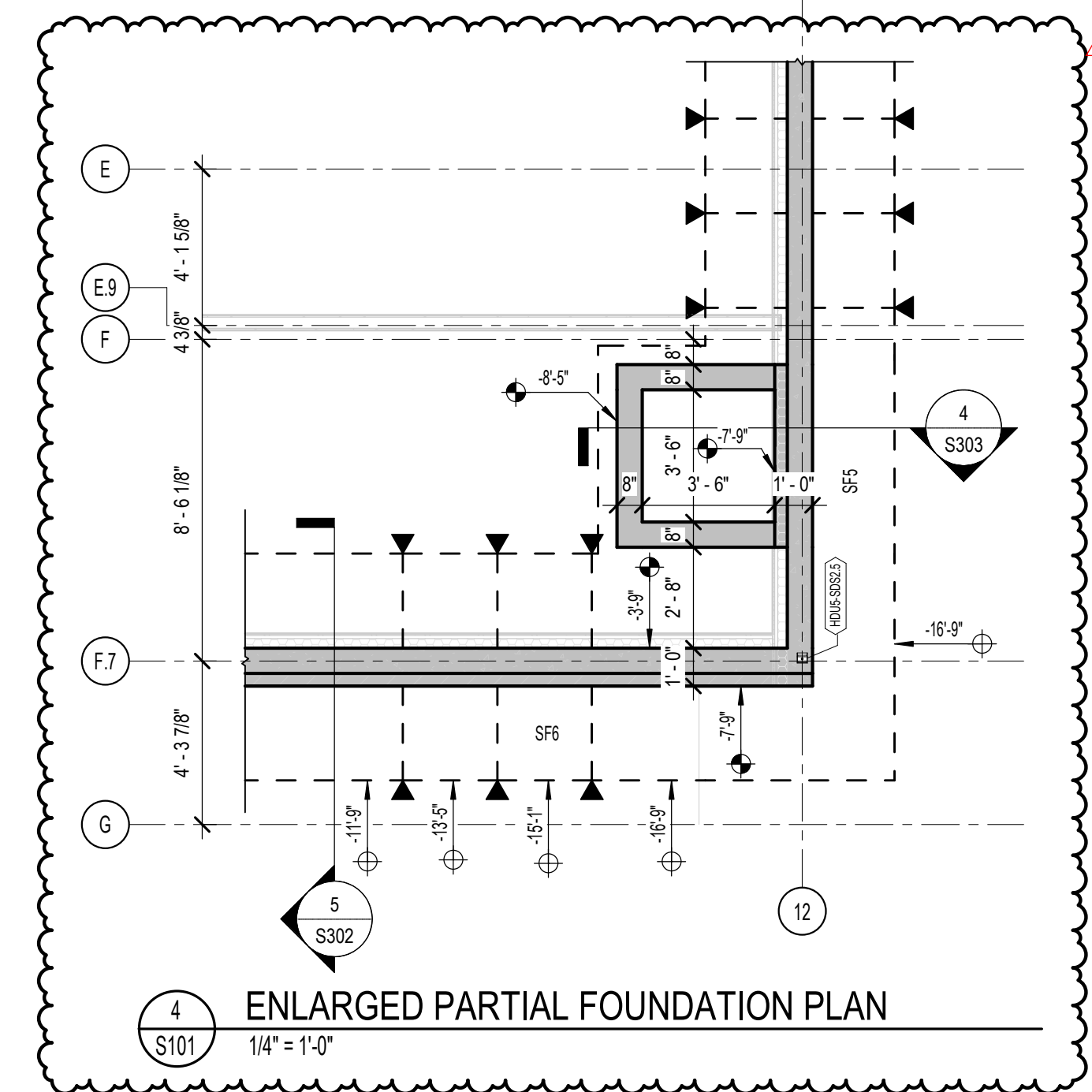
- SHEET KEYNOTES**
- 3 INFILL EXISTING WINDOW OPENINGS.
 - 11 REMOVE PORTION OF SLAB ON GRADE TO FACILITATE INSTALLATION OF NEW RAMP.
 - 12 THICKEN SLAB EDGE BELOW NEW STUD WALL.
 - 16 EPOXY NEW HORIZONTAL WALL REBAR INTO EXISTING WALL. MIN EMBEDMENT = 8".
 - 18 REMOVE AND REPLACE SLAB ABOVE FOOTINGS. DOWEL NEW SLAB INTO EXISTING W/ #4 BARS AT 18" O.C. EPOXYED 4" INTO EXISTING SLAB.
 - 24 EPOXY HORIZONTAL REBAR INTO EXISTING WALL. MIN EMBEDMENT DEPTH = 5".
 - 25 GRAVEL INFILL WITH NEW 4" SLAB ON GRADE ABOVE. REINFORCE SLAB WITH #4 BARS AT 12" O.C. EACH WAY.
 - 26 NEW 4" CONCRETE PAD ABOVE EXISTING SLAB ON GRADE. REINFORCE PAD W/ WWR 6x6-W2 1xW2 1.



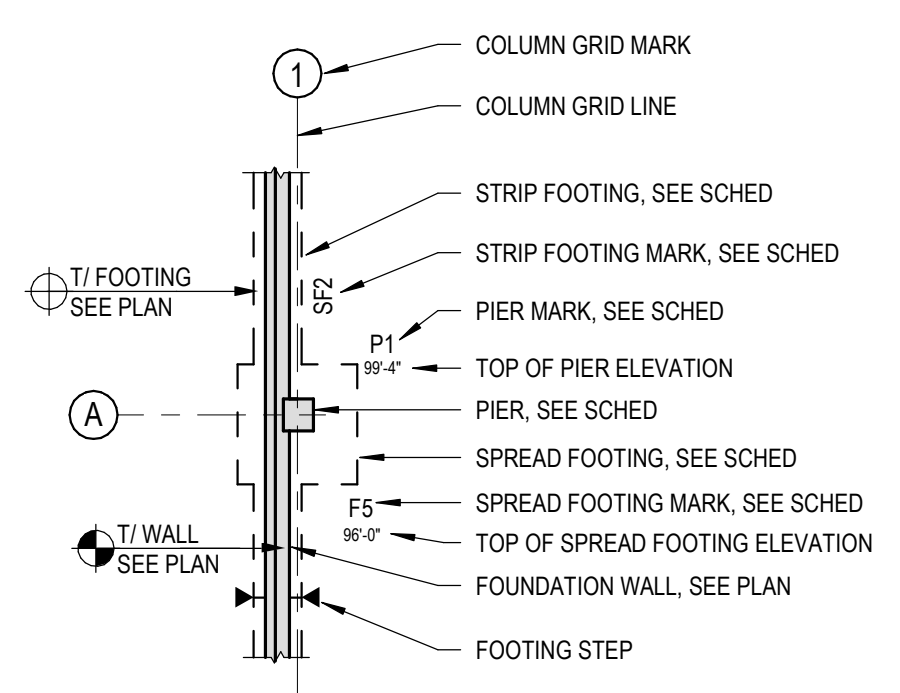
2 SLAB ON GRADE PLAN
1/8" = 1'-0"



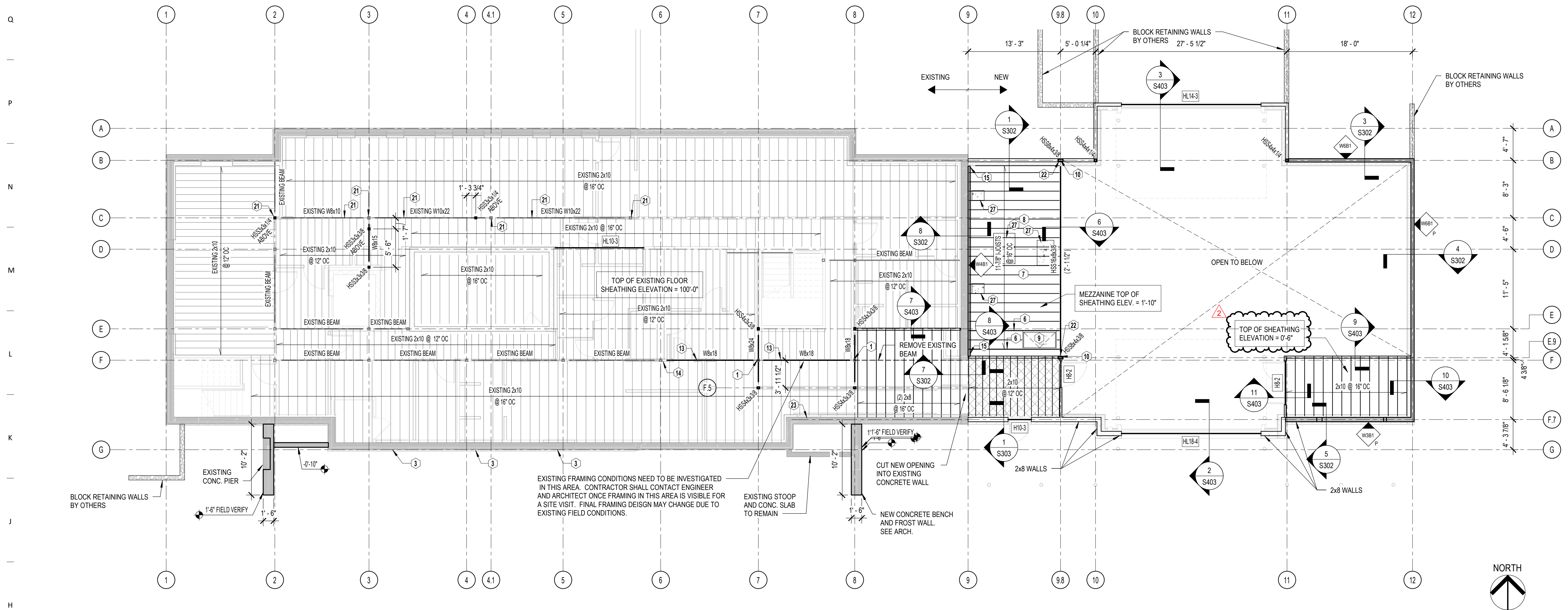
3 FOUNDATION PLAN- TRASH ENCLOSURE
1/8" = 1'-0"



4 ENLARGED PARTIAL FOUNDATION PLAN
1/4" = 1'-0"



FOUNDATION LEGEND



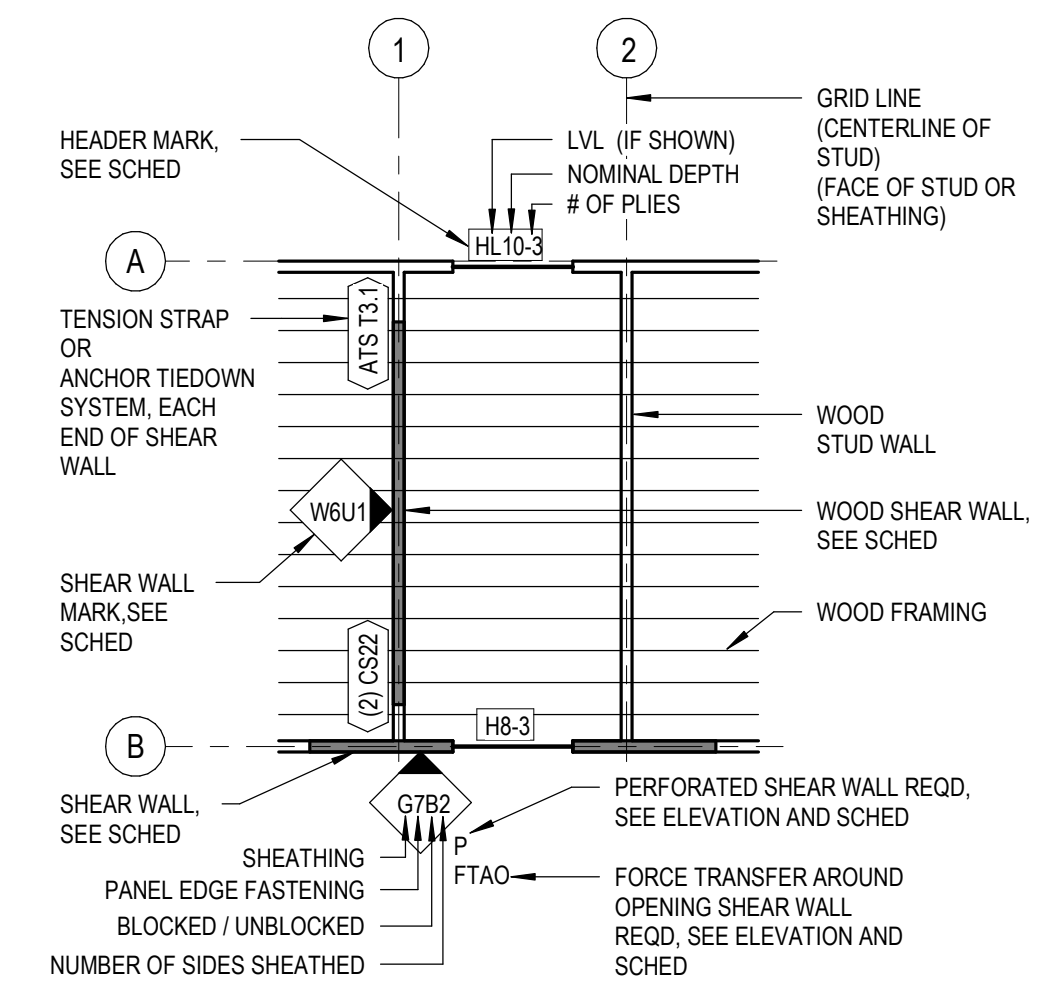
1 1ST FLOOR AND MEZZANINE FRAMING PLAN
S201 1/8" = 1'-0"

SHEET KEYNOTES

- 1 SHORE EXISTING BEAMS. REMOVE EXISTING COLUMNS. RESUPPORT EXISTING BEAMS TO NEW BEAM.
- 3 INFILL EXISTING WINDOW OPENINGS.
- 6 DOUBLE JOISTS REQUIRED AT ACCESS HATCH OPENING.
- 7 MEZZANINE HAS NOT BEEN DESIGNED TO SUPPORT A GENERATOR.
- 8 MEZZANINE LIVE LOAD = 125 PSF.
- 9 MEZZANINE LADDER HATCH.
- 10 EXTEND COLUMN UP TO ATTACH TO RAILING ASSEMBLY.
- 13 REMOVE AND REPLACE EXISTING BEAMS. REPLACEMENT REQUIRED TO FACILITATE NEW END CONNECTIONS. FIELD VERIFY EXACT TOP OF STEEL ELEVATION. EXISTING BEAMS COULD REMAIN IN PLACE IF CONTRACTOR CAN FIELD MODIFY BEAM LENGTH AND CONNECTIONS TO NEW BEAMS.
- 14 FIELD VERIFY EXISTING COLUMN SIZE AND CONNECTION PRIOR TO SHOP DRAWING PRODUCTION. COLUMN REINFORCEMENT MAY BE REQUIRED DEPENDING ON EXISTING COLUMN SIZE.
- 15 COIL STRAP CONNECTION PER DETAIL 4/S402.
- 21 ALL STEEL BEAMS AND COLUMNS SHALL BE UNCOVERED IN FIELD FOR ENGINEER'S EVALUATION. EXISTING BEAM SIZES ARE ASSUMED AND MUST BE VERIFIED. COLUMN SIZES ARE UNKNOWN AND MUST BE EVALUATED FOR POTENTIAL REINFORCEMENT ONCE EXACT SIZE CAN BE DETERMINED.
- 22 TUBE BEAM TO TUBE COLUMN CONNECTION PER DETAIL 8/S501.
- 23 CMU INFILL PER ARCH.
- 27 NEW #4 CONCRETE EQUIPMENT PAD. JOIST SUPPLIER SHALL INCLUDE AN ADDITIONAL 50 PSF DEAD LOAD AT THESE LOCATIONS. REINFORCE PAD W/ WWR 6x6-W2.1xW2.1.

1ST FLOOR AND MEZZANINE LEVEL FRAMING PLAN NOTES

- 1. SEE SHEETS S001 & S002 FOR GENERAL NOTES.
- 3. SEE DETAILS FOR ROOF TRUSS BEARING ELEVATIONS.
- 5. TYPICAL FLOOR: 3/4" APA RATED SHEATHING.
TYPICAL ROOF: 5/8" APA RATED SHEATHING.
SEE WOOD SHEATHING STRUCTURAL GENERAL NOTES FOR ALL SHEATHING REQUIREMENTS.
- 6. SEE DETAIL (4) S401 FOR TYPICAL WOOD BEARING WALLS.
- 7. SEE DETAILS (1) S402 (2) S402 FOR TYPICAL WOOD SHEAR WALLS.
- 8. FRAMING AROUND SHAFT OPENINGS SHALL BE LOCATED, DESIGNED AND PROVIDED BY DEFERRED FRAMING SUPPLIER.
- 9. **FRAMING LAYOUT SHOWN IS SCHEMATIC ONLY.** VERIFY ALL LOCATIONS AND QUANTITIES OF PLUMBING DROPS, HVAC CHASES AND MECHANICAL EQUIPMENT RELATIVE TO DEFERRED FRAMING W/ ARCH. COORDINATION BETWEEN TRADES IS THE RESPONSIBILITY OF THE CONTRACTOR, PRIOR TO SUBMITTING TO THE SER FOR STRUCTURAL REVIEW. NOTIFY SER OF ANY SIGNIFICANT DEVIATION FOR REVIEW AND VERIFICATION. MEMBER SPACING SHOWN ON PLAN SHALL NOT BE ALTERED UNLESS APPROVED IN WRITING.
- 10. FOR DRAFTSTOPPING AND ALL OTHER FIRE RATING REQUIREMENTS, SEE ARCH FOR ADDITIONAL MATERIALS AND ASSEMBLIES, ALONG WITH THEIR LOCATIONS.
- 11. SEE MECHANICAL DRAWINGS FOR WEIGHTS AND LOCATIONS OF ALL ROOF TOP EQUIPMENT. CONTRACTOR TO COORDINATE LOADS W/ DESIGN OF DEFERRED FRAMING SUBMITTAL PRIOR TO SUBMITTING TO SER FOR REVIEW.
- 12. SEE DETAIL (5) S401 (9) S401 FOR WOOD HEADERS.
- 13. EXISTING PLAN FRAMING AS SHOWN IS PRESUMED. NOT ALL CONCEALED AREAS HAVE BEEN VERIFIED. CONTRACTOR SHALL NOTIFY ARCHITECT AND ENGINEER IMMEDIATELY IF FIELD CONDITIONS VARY FROM THOSE SHOWN AND AFFECT PROPOSED WORK.



WOOD FRAMING LEGEND

Key Plan

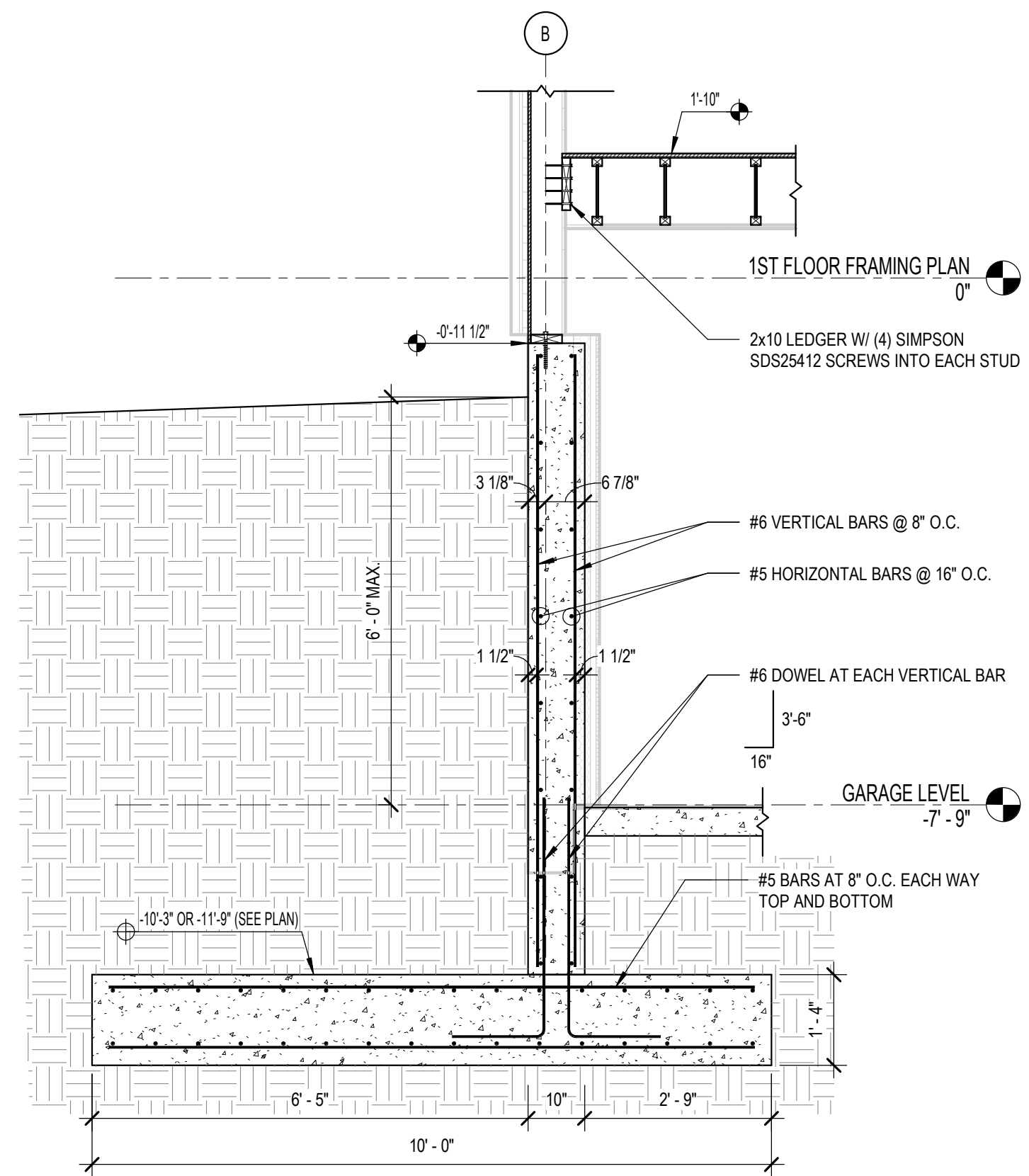
Revision	Description	Date
2	ADDENDUM 02	March 9, 2021

OPN Project No.
20628000

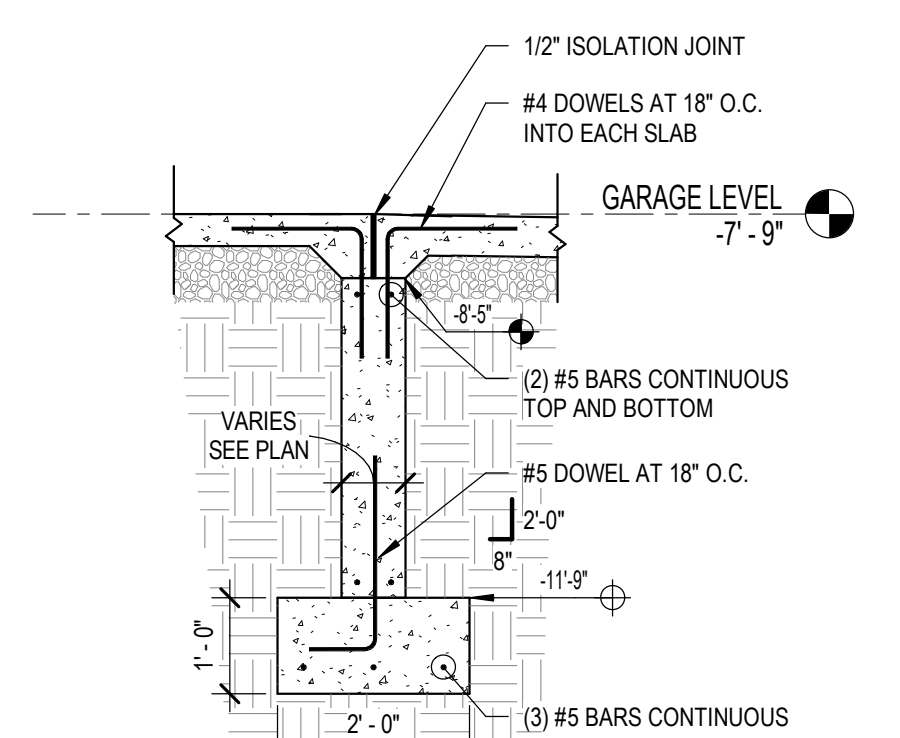
Sheet Issue Date
CONSTRUCTION February 2, 2021
DRAWINGS

Sheet Name
1ST FLOOR AND MEZZANINE FRAMING PLAN

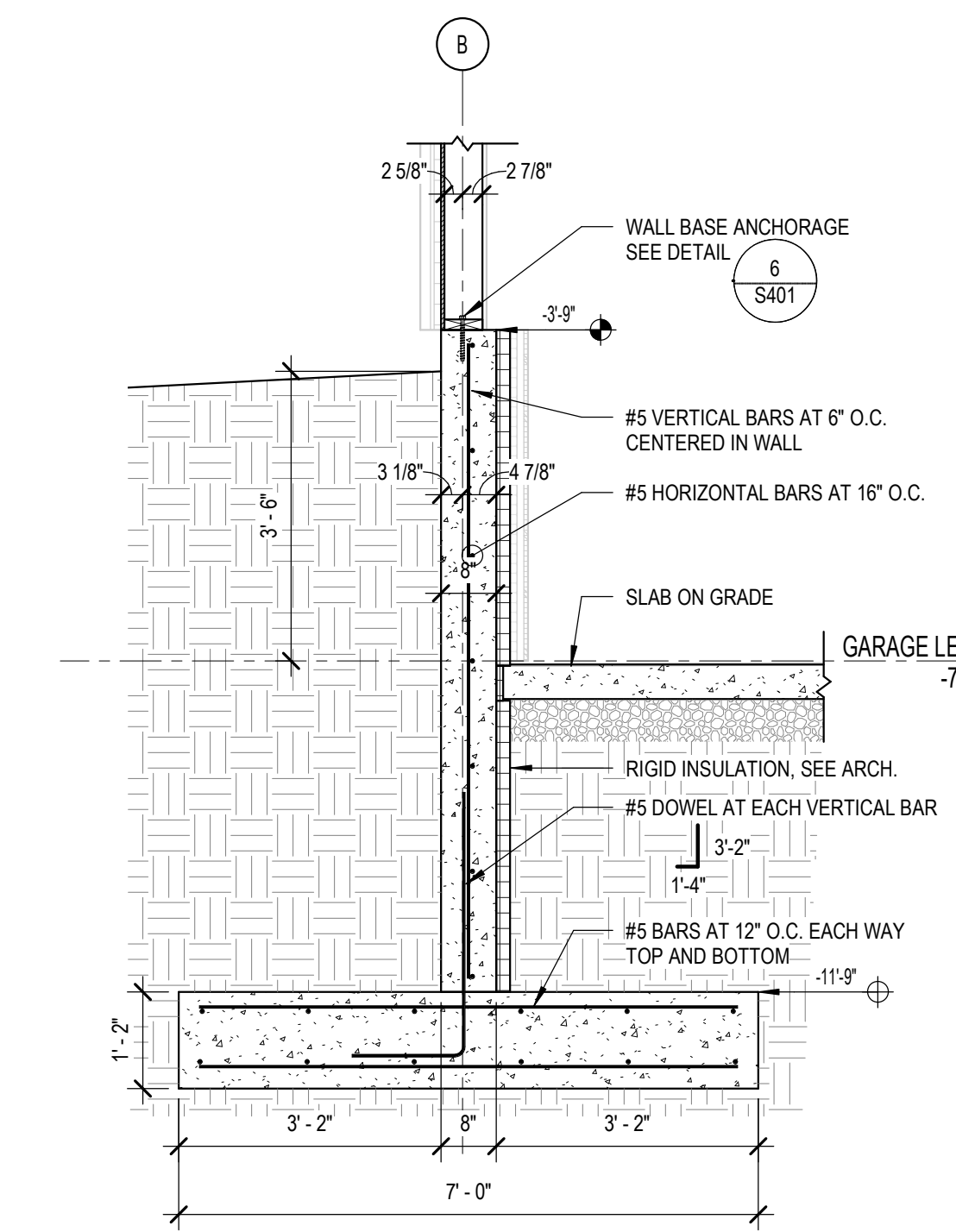
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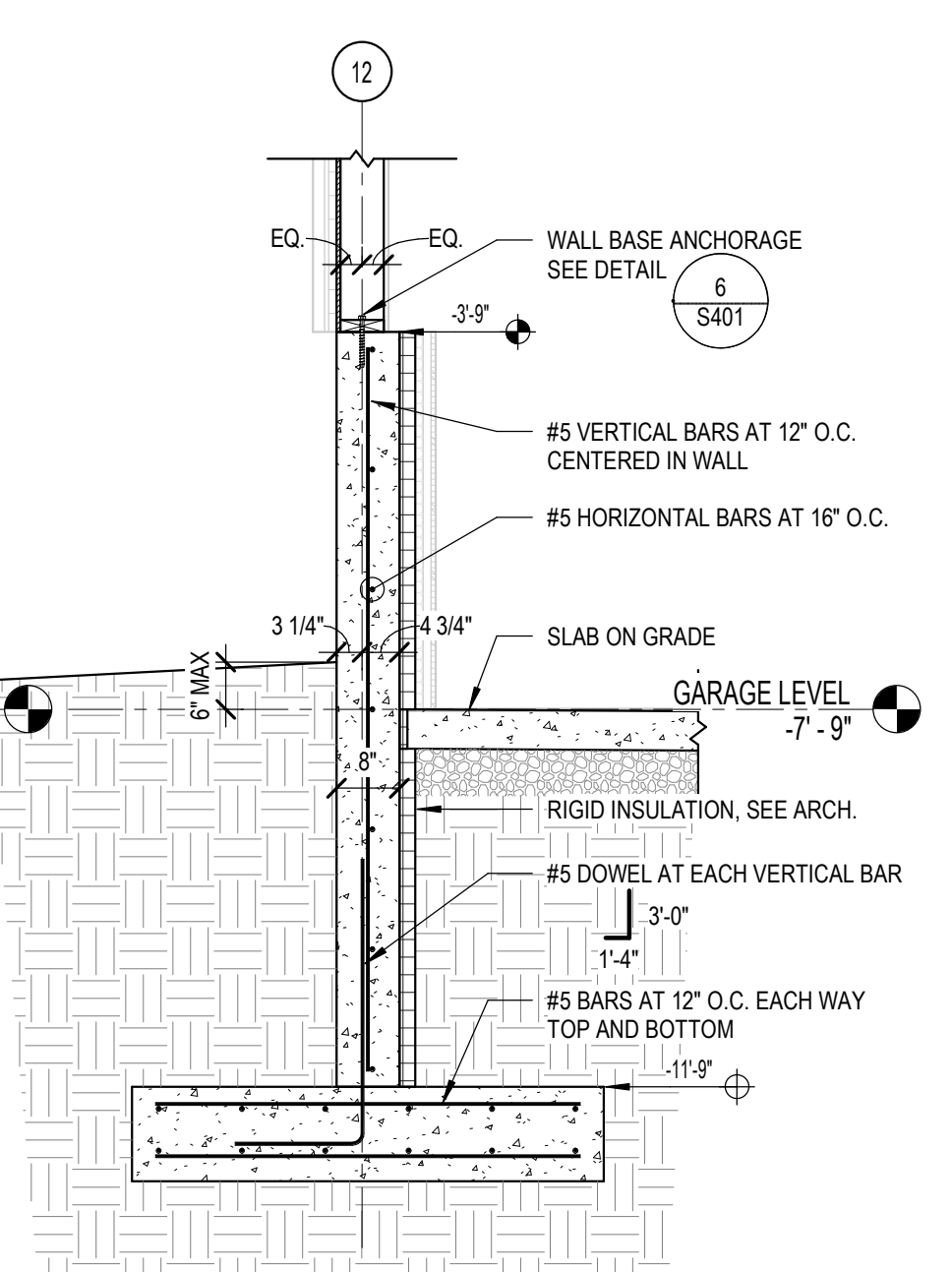
1 FOUNDATION SECTION
1/2" = 1'-0"



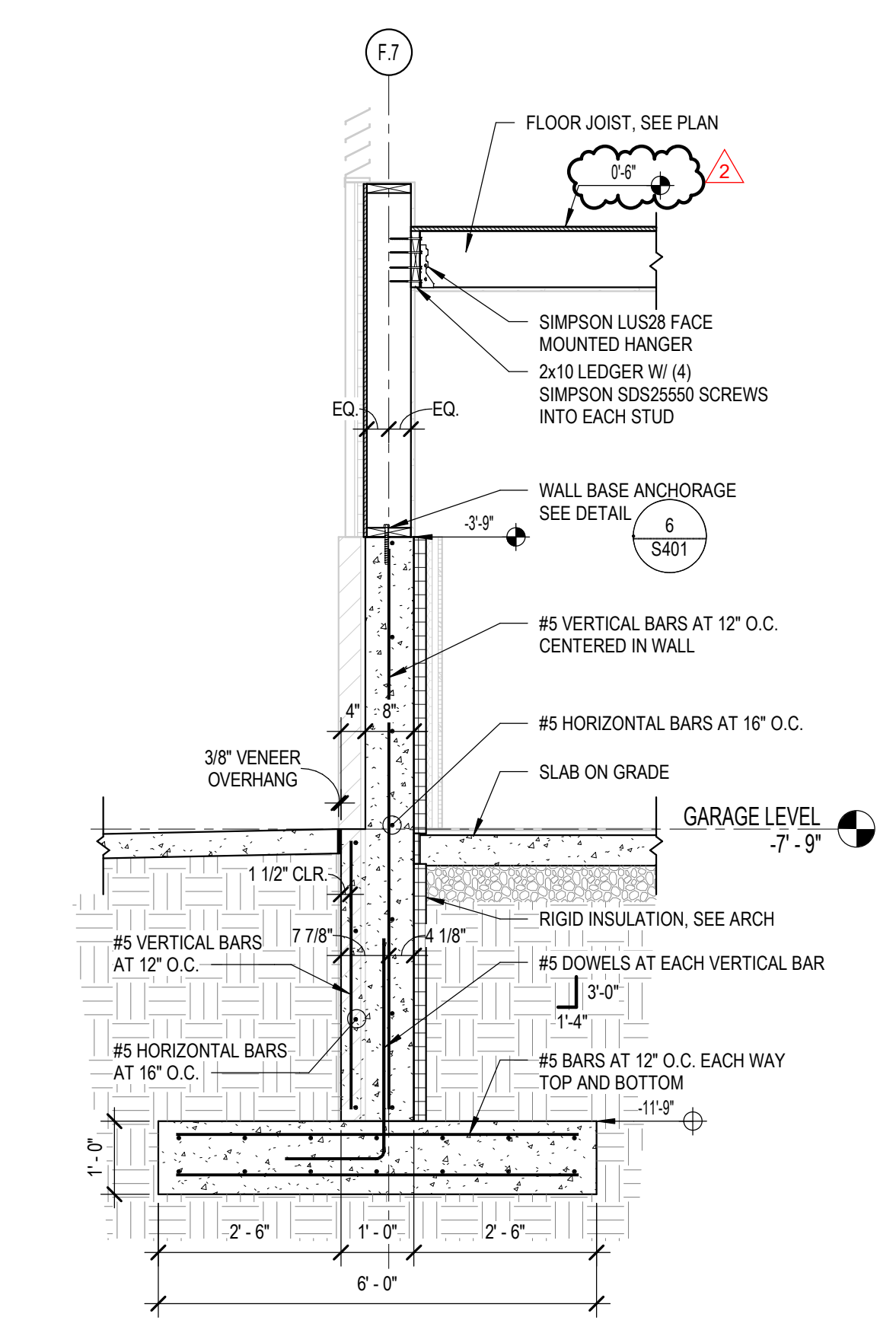
2 FOUNDATION AT OH DOOR
1/2" = 1'-0"



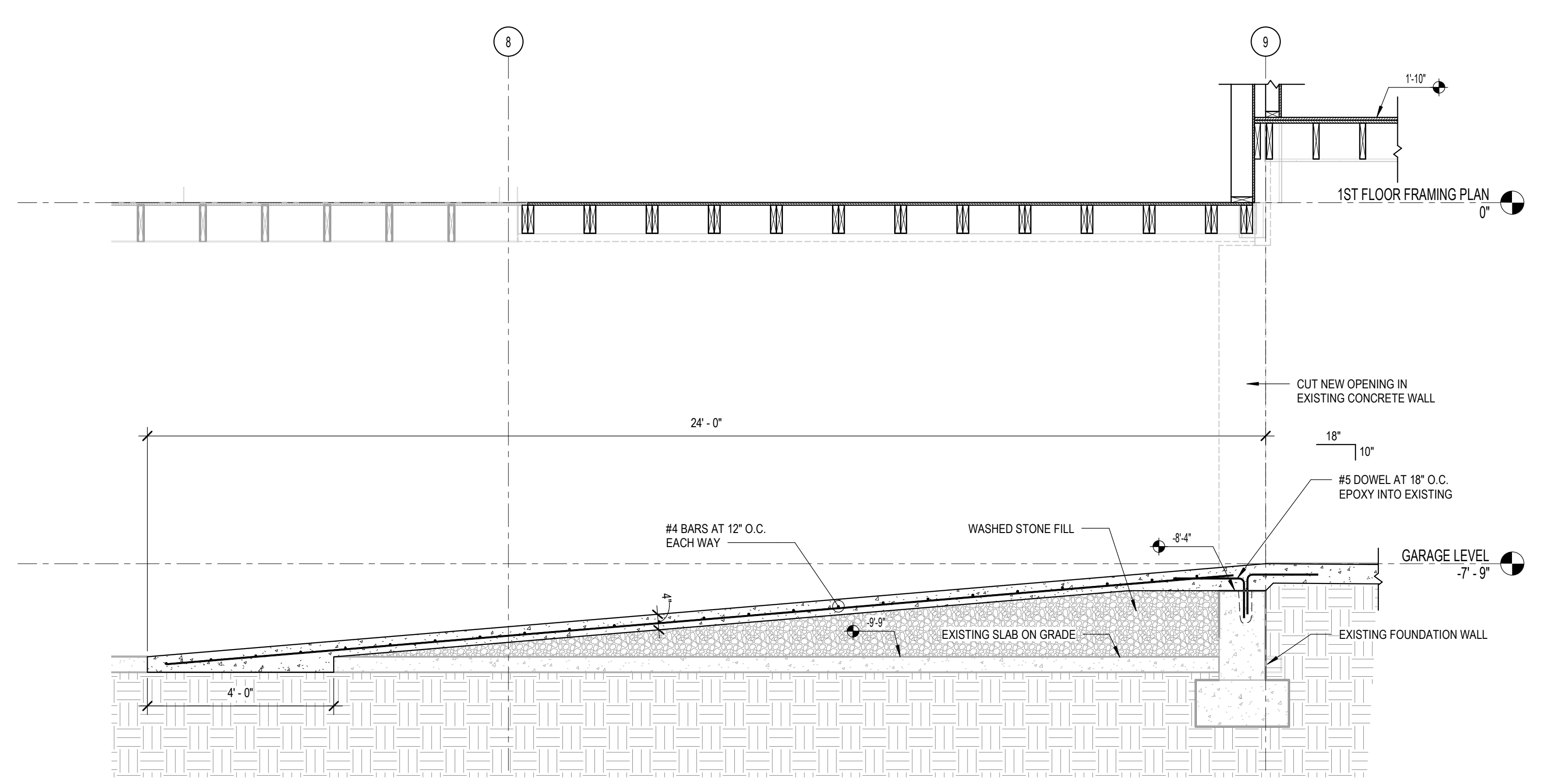
3 SECTION AT NORTH EXTERIOR WALL
1/2" = 1'-0"



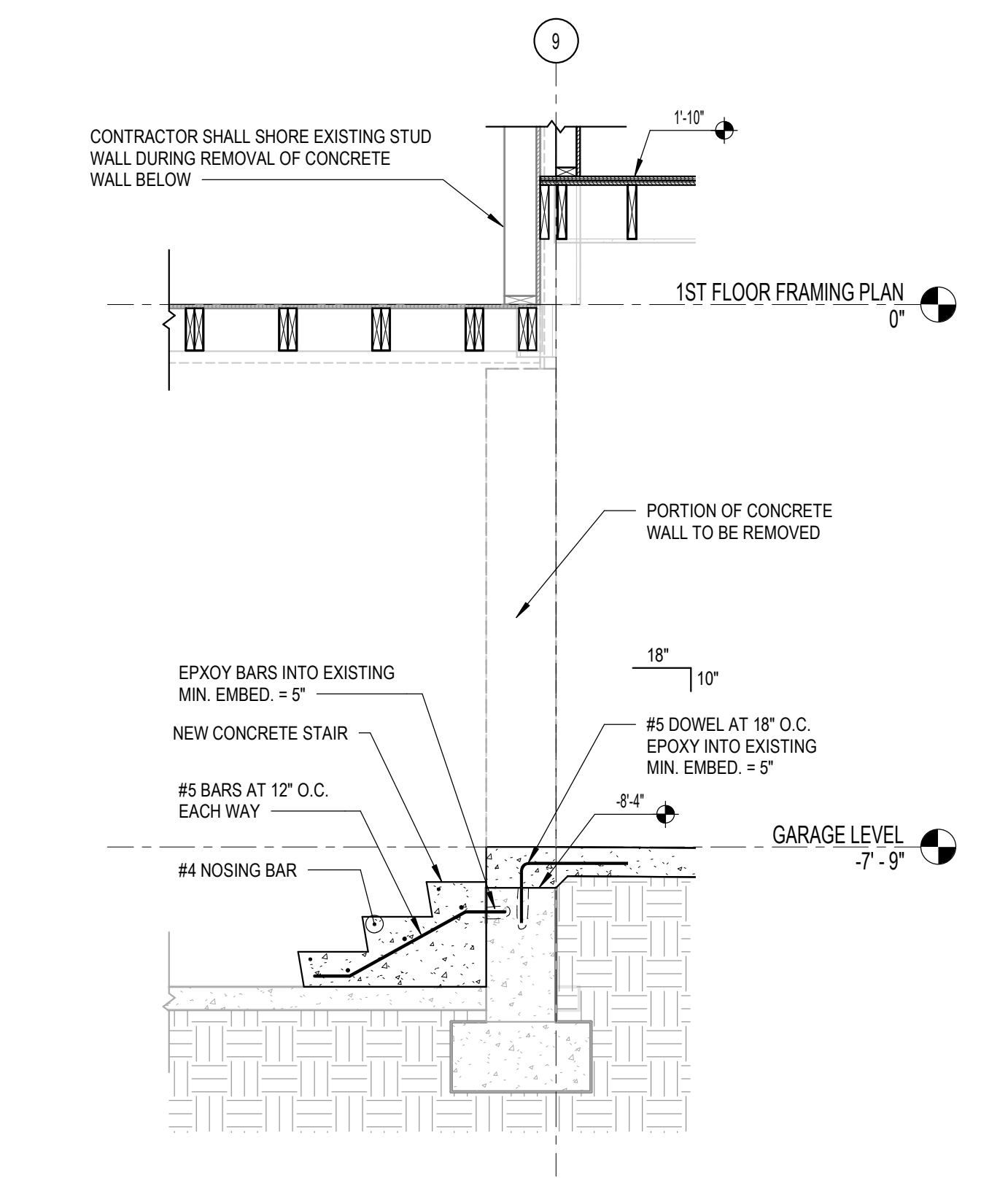
4 SECTION AT EAST EXTERIOR WALL
1/2" = 1'-0"



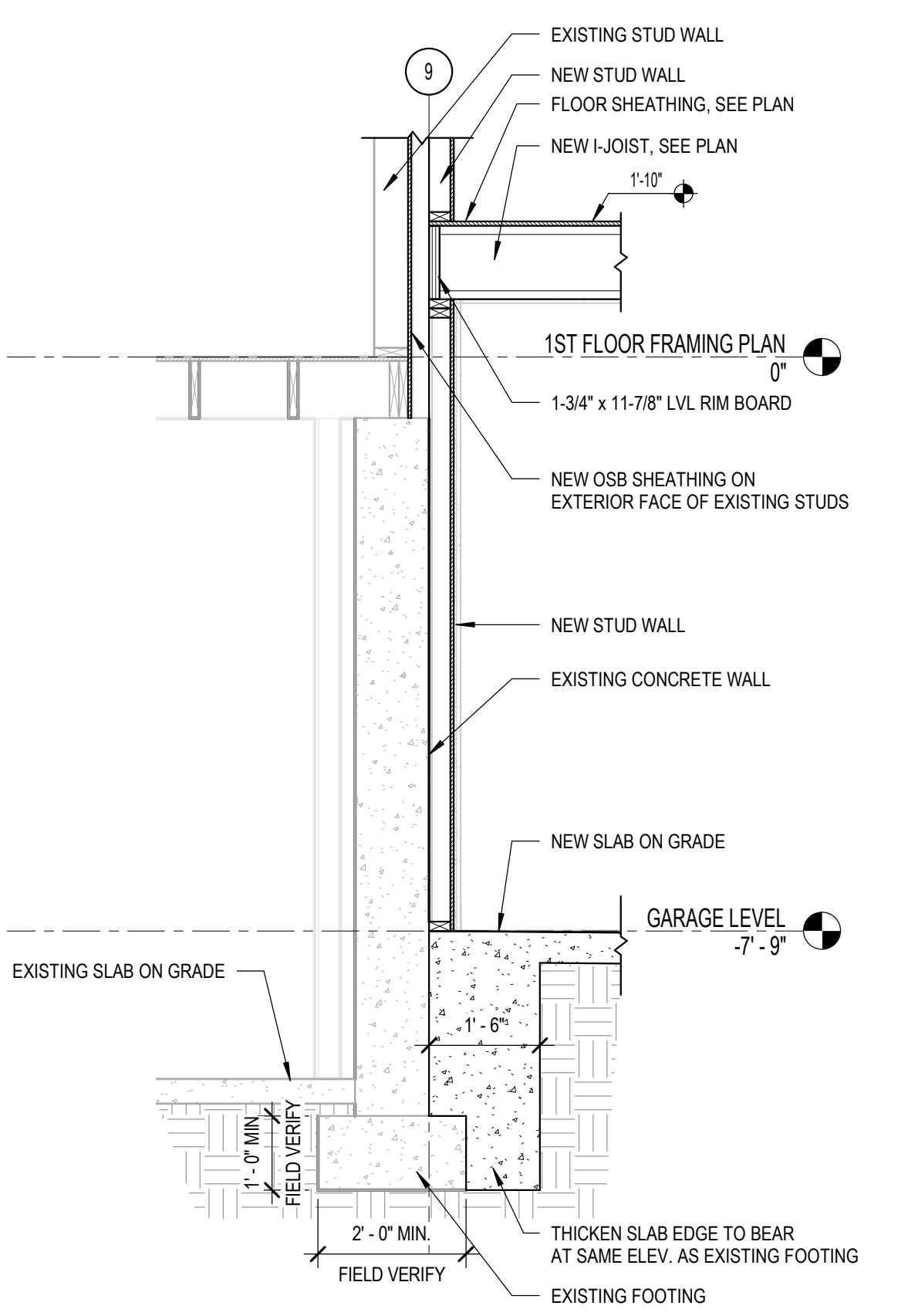
5 SECTION AT SOUTH EXTERIOR WALL
1/2" = 1'-0"



6 SECTION AT NEW RAMP
1/2" = 1'-0"



7 SECTION AT NEW STAIR
1/2" = 1'-0"



8 SECTION AT EXISTING BASEMENT WALL
1/2" = 1'-0"

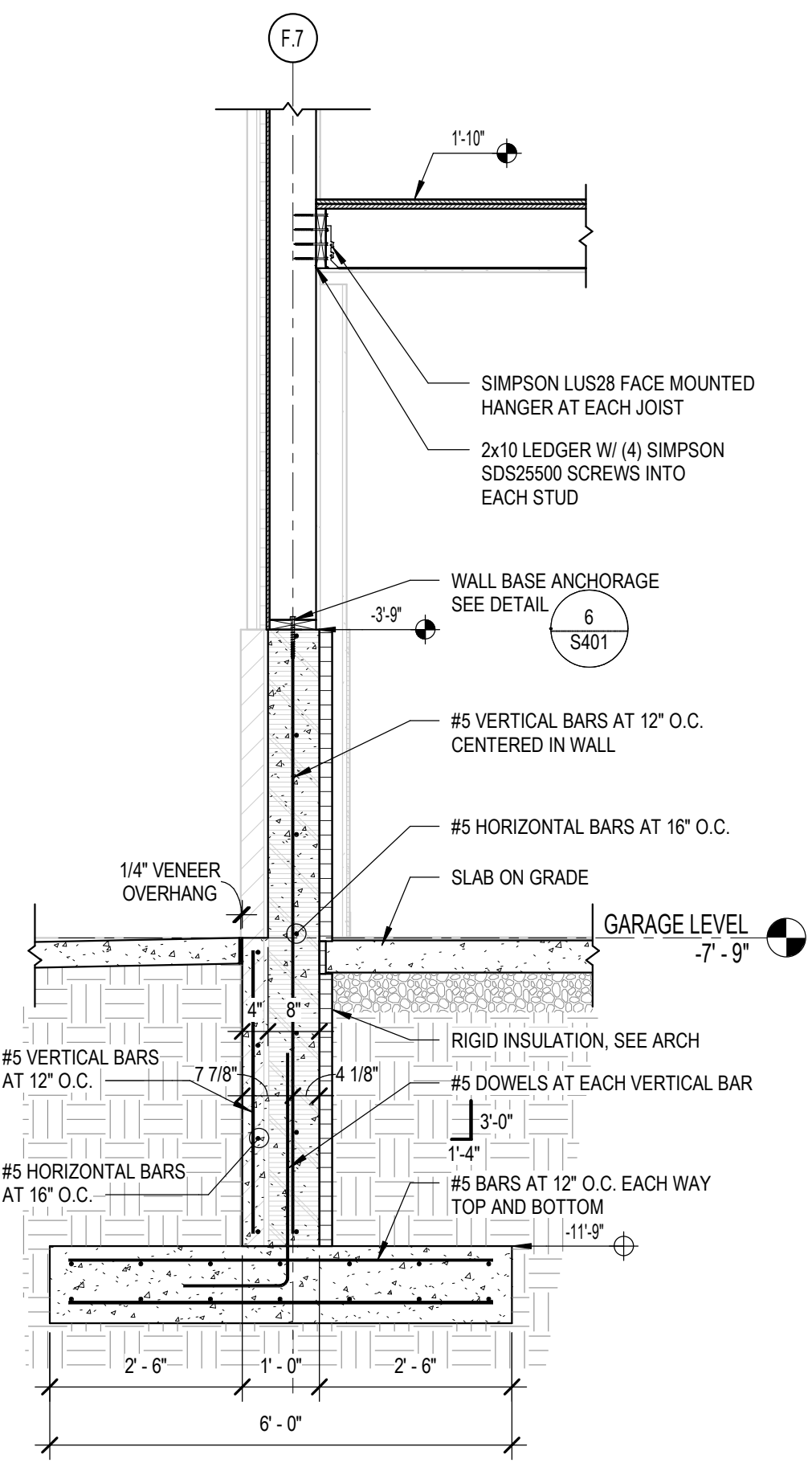
Key Plan

Revision	Description	Date
2	ADDENDUM 02	March 9, 2021

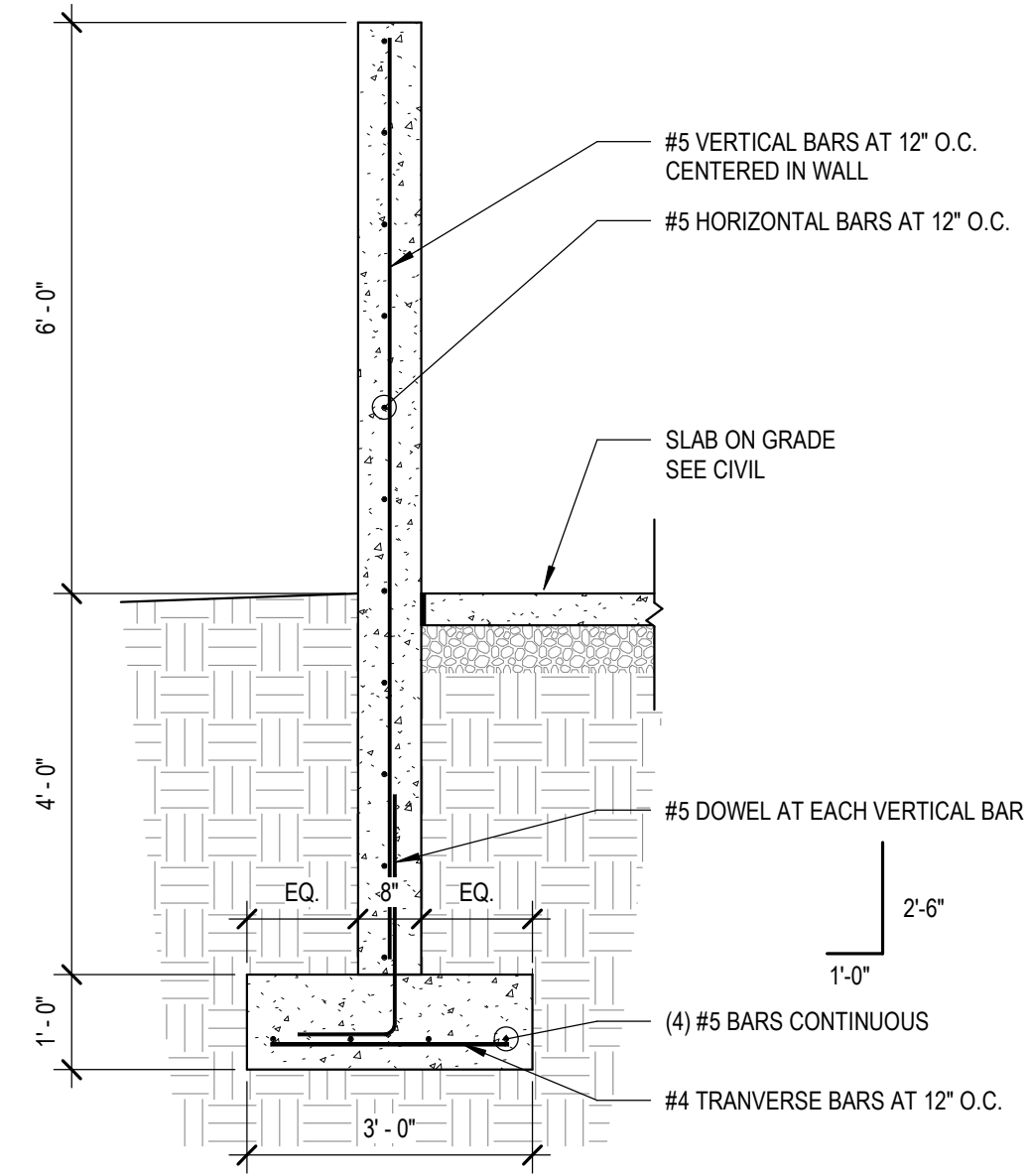
OPN Project No.
20628000

Sheet Issue Date
CONSTRUCTION DRAWINGS February 2, 2021
Sheet Name
FOUNDATION DETAILS

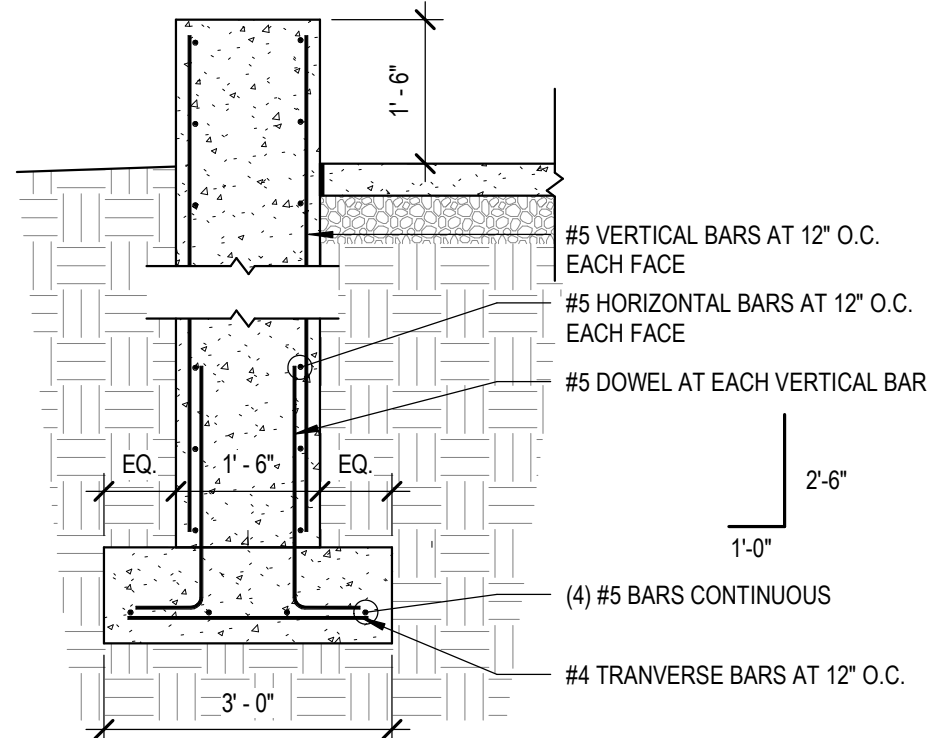
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S302



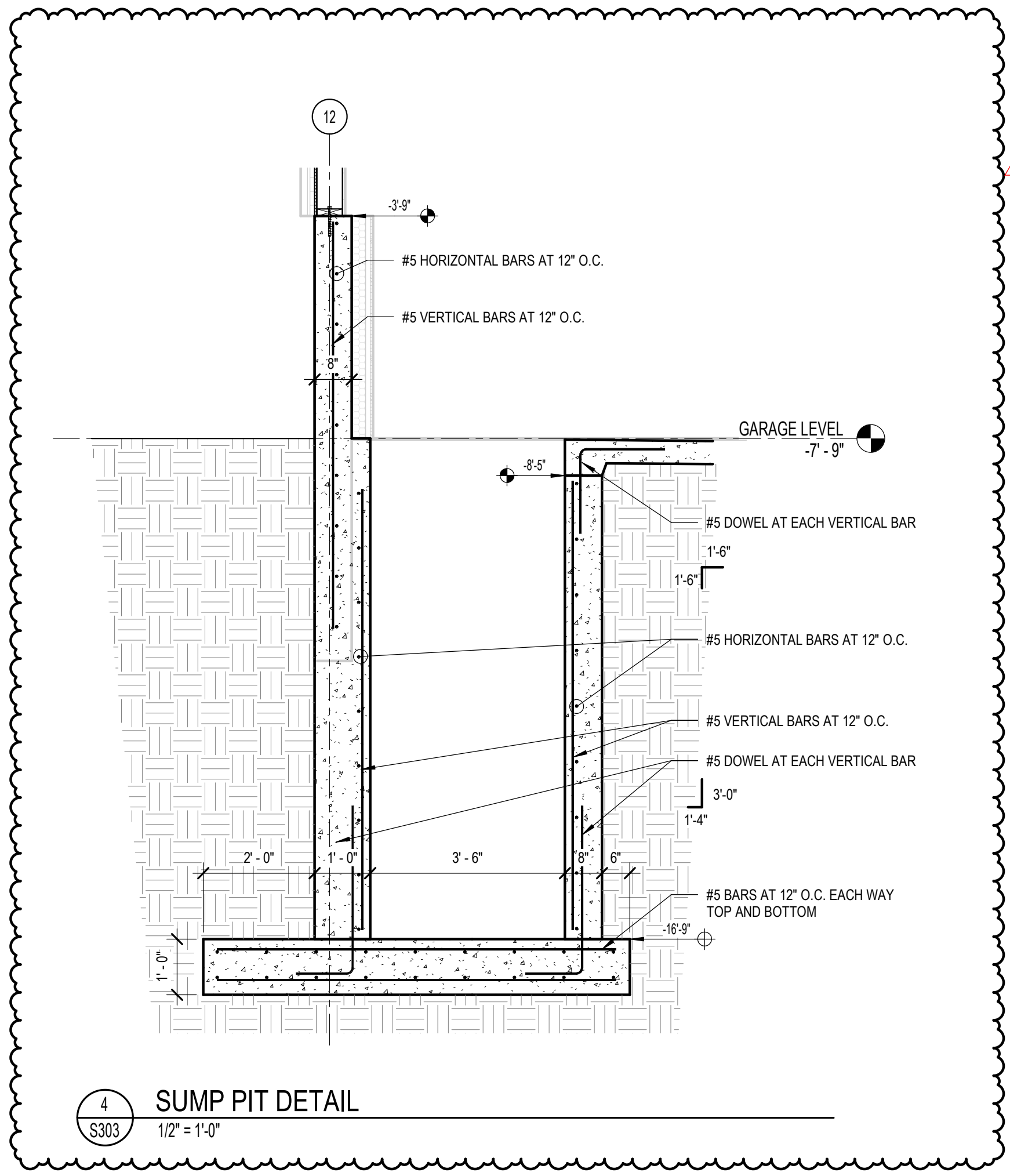
1 SECTION AT SOUTH EXTERIOR WALL
1/2" = 1'-0"



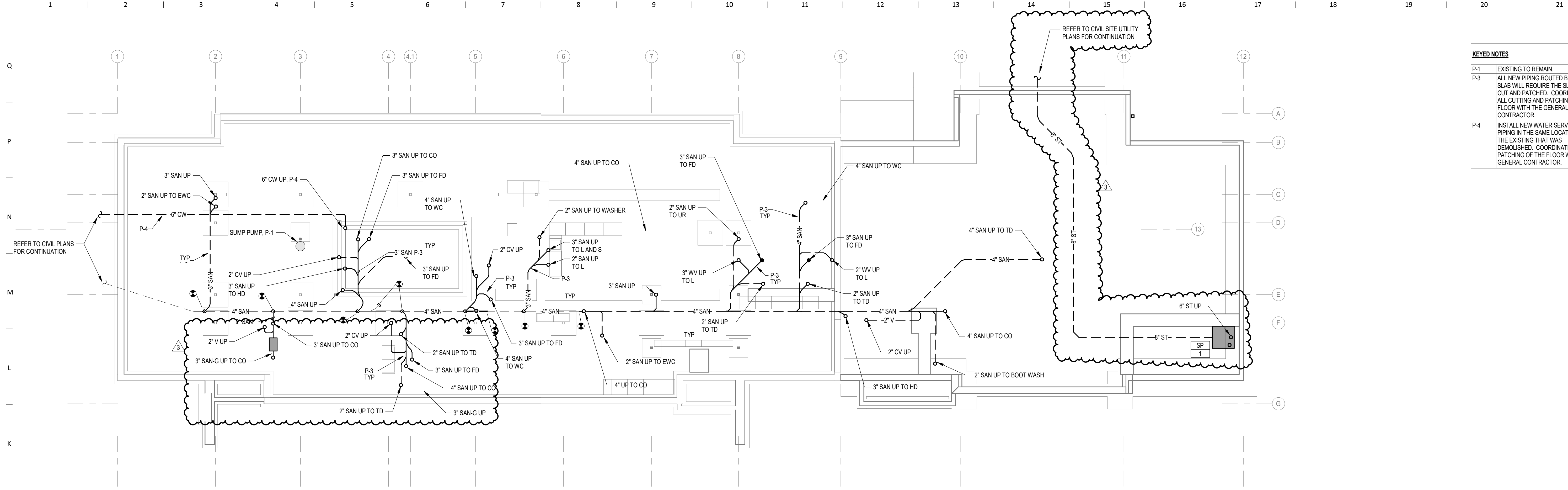
2 TRASH ENCLOSURE WALL
1/2" = 1'-0"



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



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



KEYED NOTES	
P-1	EXISTING TO REMAIN.
P-3	ALL NEW PIPING ROUTED BELOW SLAB WILL REQUIRE THE SLAB TO BE CUT AND PATCHED. COORDINATE ALL CUTTING AND PATCHING OF THE FLOOR WITH THE GENERAL CONTRACTOR.
P-4	INSTALL NEW WATER SERVICE PIPING IN THE SAME LOCATION AS THE EXISTING THAT WAS DEMOLISHED. COORDINATING THE PATCHING OF THE FLOOR WITH THE GENERAL CONTRACTOR.



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1 UNDERSLAB PLUMBING PLAN
1/8" = 1'-0"

NEW WORK KEY		
---	---	EXISTING
---	---	NEW / REVISED

REFER TO SHEET S001 FOR INFORMATION ON REQUIRED SEISMIC BRACING FOR COMPONENTS. COORDINATE DESIGN AND INSTALLATION OF SEISMIC BRACING WITH THE GENERAL CONTRACTOR.

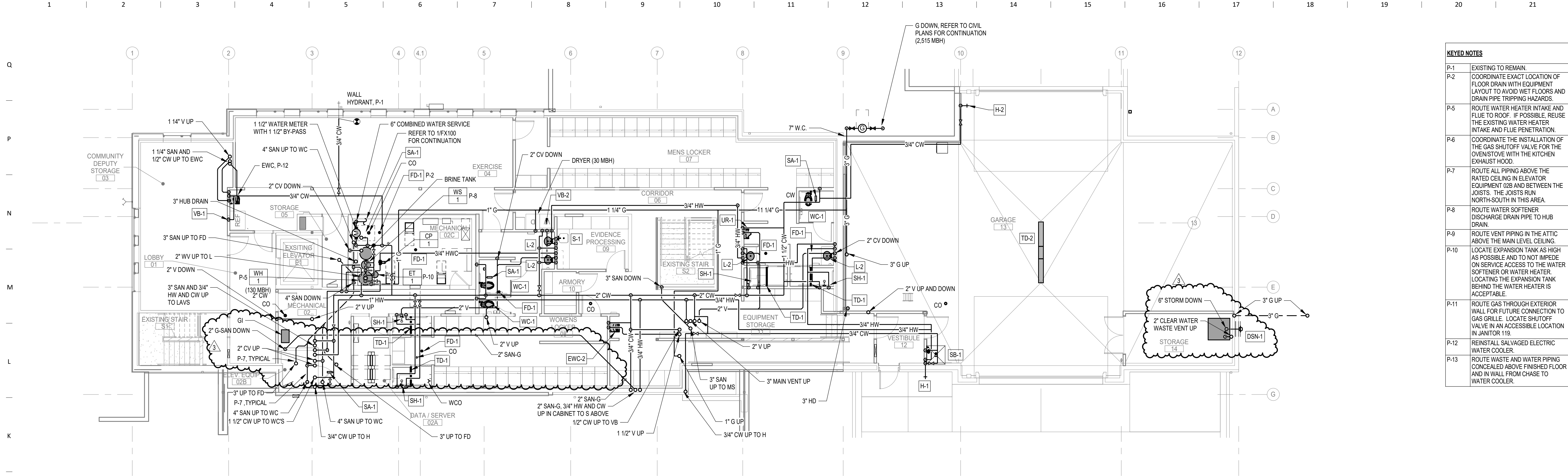
Revision	Description	Date
2	ADDENDUM 02	MARCH 9, 2021

OPN Project No.
20628000

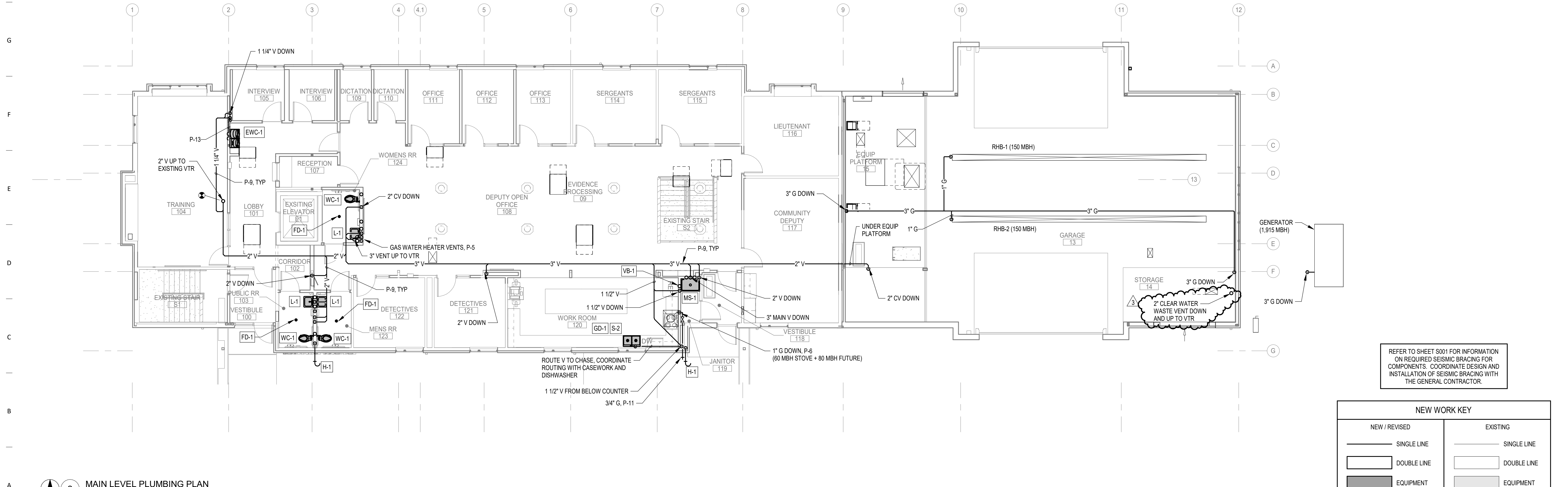
Sheet Issue Date
CONSTRUCTION February 2, 2021
DRAWINGS

Sheet Name
UNDERSLAB PLUMBING PLAN
Sheet Number

KEYED NOTES	
P-1	EXISTING TO REMAIN.
P-2	COORDINATE EXACT LOCATION OF FLOOR DRAIN WITH EQUIPMENT LAYOUT TO AVOID WET FLOORS AND DRAIN PIPE TRIPPING HAZARDS.
P-5	ROUTE WATER HEATER INTAKE AND FLUE TO ROOF. IF POSSIBLE, REUSE THE EXISTING WATER HEATER INTAKE AND FLUE PENETRATION.
P-6	COORDINATE THE INSTALLATION OF THE GAS SHUTOFF VALVE FOR THE OVEN/STOVE WITH THE KITCHEN EXHAUST HOOD.
P-7	ROUTE ALL PIPING ABOVE THE RATED CEILING IN ELEVATOR EQUIPMENT 02B AND BETWEEN THE JOISTS. THE JOISTS RUN NORTH-SOUTH IN THIS AREA.
P-8	ROUTE WATER SOFTENER DISCHARGE DRAIN PIPE TO HUB DRAIN.
P-9	ROUTE VENT PIPING IN THE ATTIC ABOVE THE MAIN LEVEL CEILING.
P-10	LOCATE EXPANSION TANK AS HIGH AS POSSIBLE AND TO NOT IMPED ON SERVICE ACCESS TO THE WATER SOFTENER OR WATER HEATER. LOCATING THE EXPANSION TANK BEHIND THE WATER HEATER IS ACCEPTABLE.
P-11	ROUTE GAS THROUGH EXTERIOR WALL FOR FUTURE CONNECTION TO GAS GRILLE. LOCATE SHUTOFF VALVE IN AN ACCESSIBLE LOCATION IN JANITOR 119.
P-12	REINSTALL SALVAGED ELECTRIC WATER COOLER.
P-13	ROUTE WASTE AND WATER PIPING CONCEALED ABOVE FINISHED FLOOR AND IN WALL FROM CHASE TO WATER COOLER.



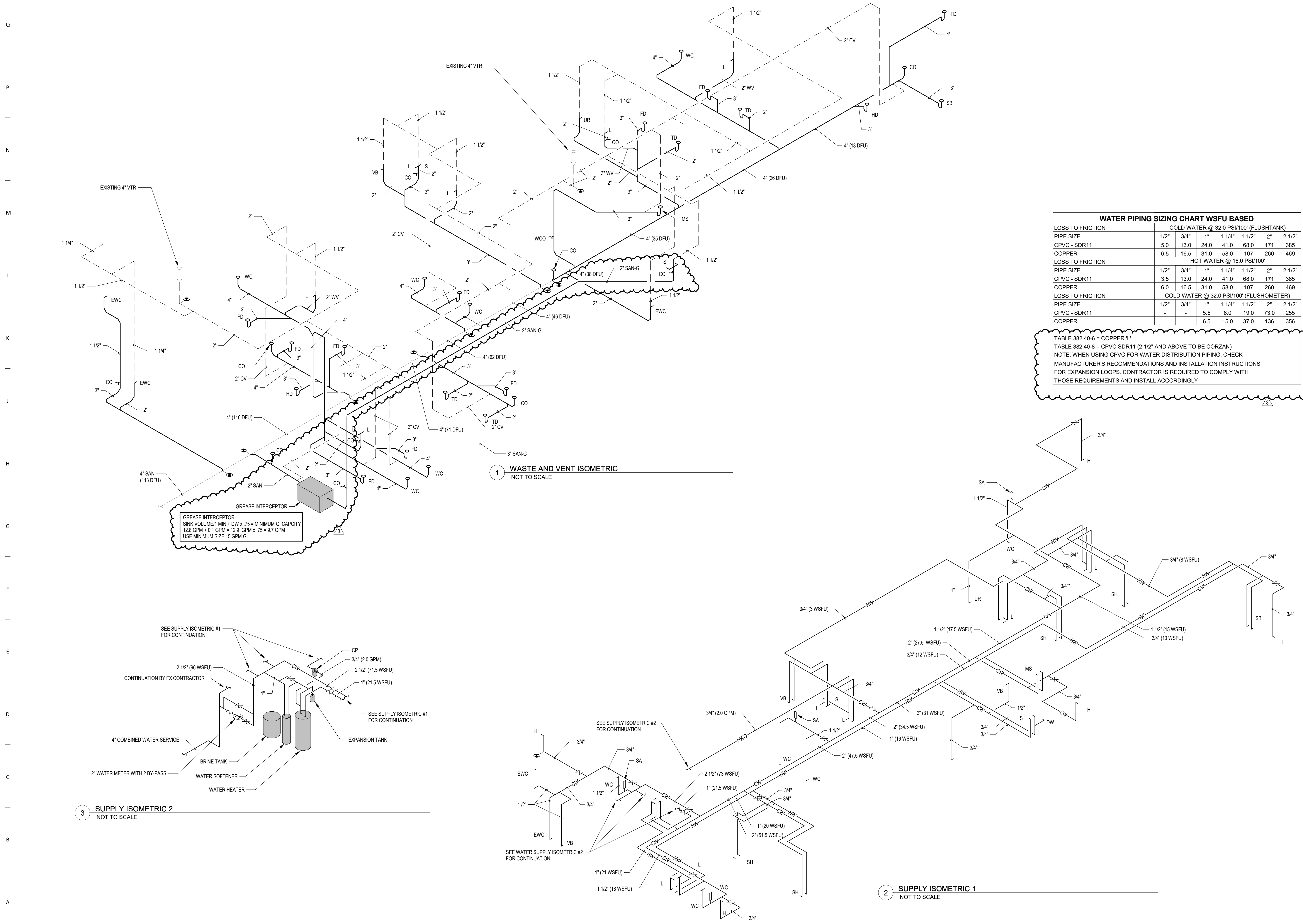
1 LOWER LEVEL PLUMBING PLAN
1/8" = 1'-0"



2 MAIN LEVEL PLUMBING PLAN
1/8" = 1'-0"

NEW WORK KEY	
NEW / REVISED	EXISTING
SINGLE LINE	SINGLE LINE
DOUBLE LINE	DOUBLE LINE
EQUIPMENT	EQUIPMENT

Revision	Description	Date
2	ADDENDUM 02	MARCH 9, 2021



WATER PIPING SIZING CHART WSFU BASED

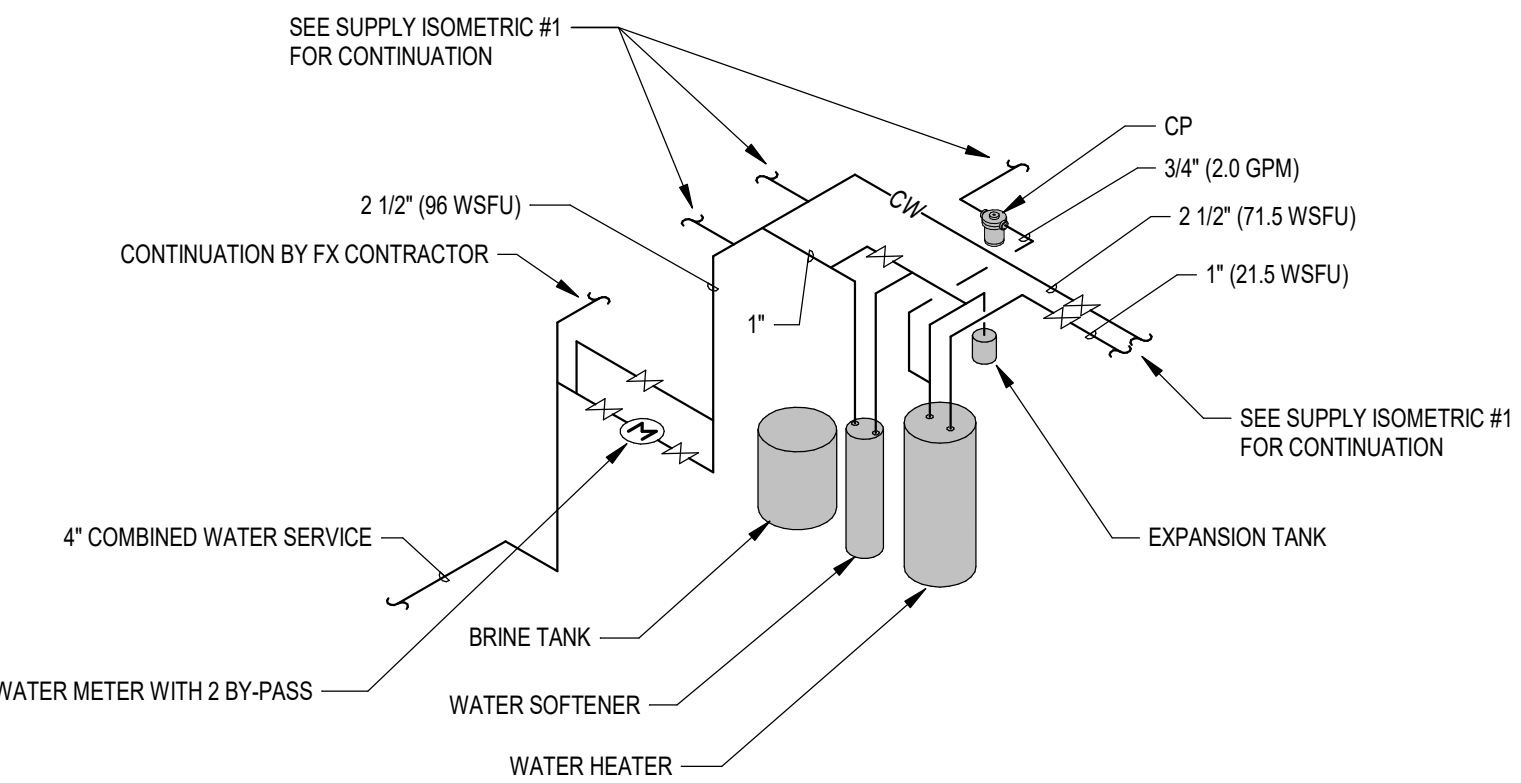
LOSS TO FRICTION	COLD WATER @ 32.0 PSI/100' (FLUSH TANK)					
	1/2"	3/4"	1"	1 1/4"	1 1/2"	2"
PIPE SIZE	1/2"	3/4"	1"	1 1/4"	1 1/2"	2"
CPVC - SDR11	5.0	13.0	24.0	41.0	68.0	171
COPPER	6.5	16.5	31.0	58.0	107	260

LOSS TO FRICTION	HOT WATER @ 16.0 PSI/100'					
	1/2"	3/4"	1"	1 1/4"	1 1/2"	2"
PIPE SIZE	1/2"	3/4"	1"	1 1/4"	1 1/2"	2"
CPVC - SDR11	3.5	13.0	24.0	41.0	68.0	171
COPPER	6.0	16.5	31.0	58.0	107	260

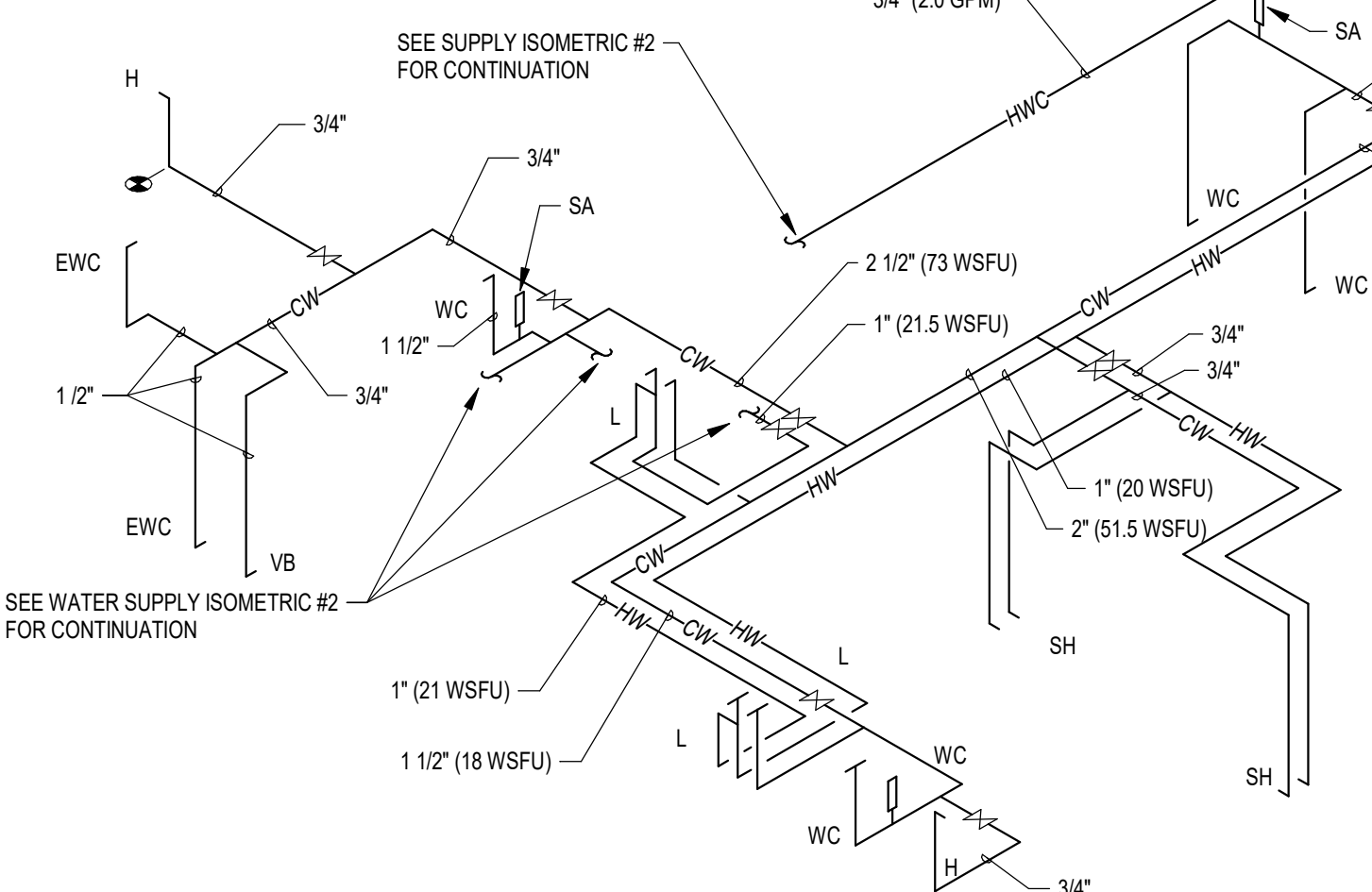
LOSS TO FRICTION	COLD WATER @ 32.0 PSI/100' (FLUSHMETER)					
	1/2"	3/4"	1"	1 1/4"	1 1/2"	2"
PIPE SIZE	1/2"	3/4"	1"	1 1/4"	1 1/2"	2"
CPVC - SDR11	-	-	5.5	8.0	19.0	73.0
COPPER	-	-	6.5	15.0	37.0	136

TABLE 382.40-6 = COPPER 'L'
TABLE 382.40-8 = CPVC SDR11 (2 1/2" AND ABOVE TO BE CORZAN)
NOTE: WHEN USING CPVC FOR WATER DISTRIBUTION PIPING, CHECK MANUFACTURER'S RECOMMENDATIONS AND INSTALLATION INSTRUCTIONS FOR EXPANSION LOOPS. CONTRACTOR IS REQUIRED TO COMPLY WITH THOSE REQUIREMENTS AND INSTALL ACCORDINGLY

GREASE INTERCEPTOR
SINK VOLUME/1 MIN + DW x .75 = MINIMUM GI CAPACITY
12.8 GPM + 0.1 GPM = 12.9 GPM x .75 = 9.7 GPM
USE MINIMUM SIZE 15 GPM GI



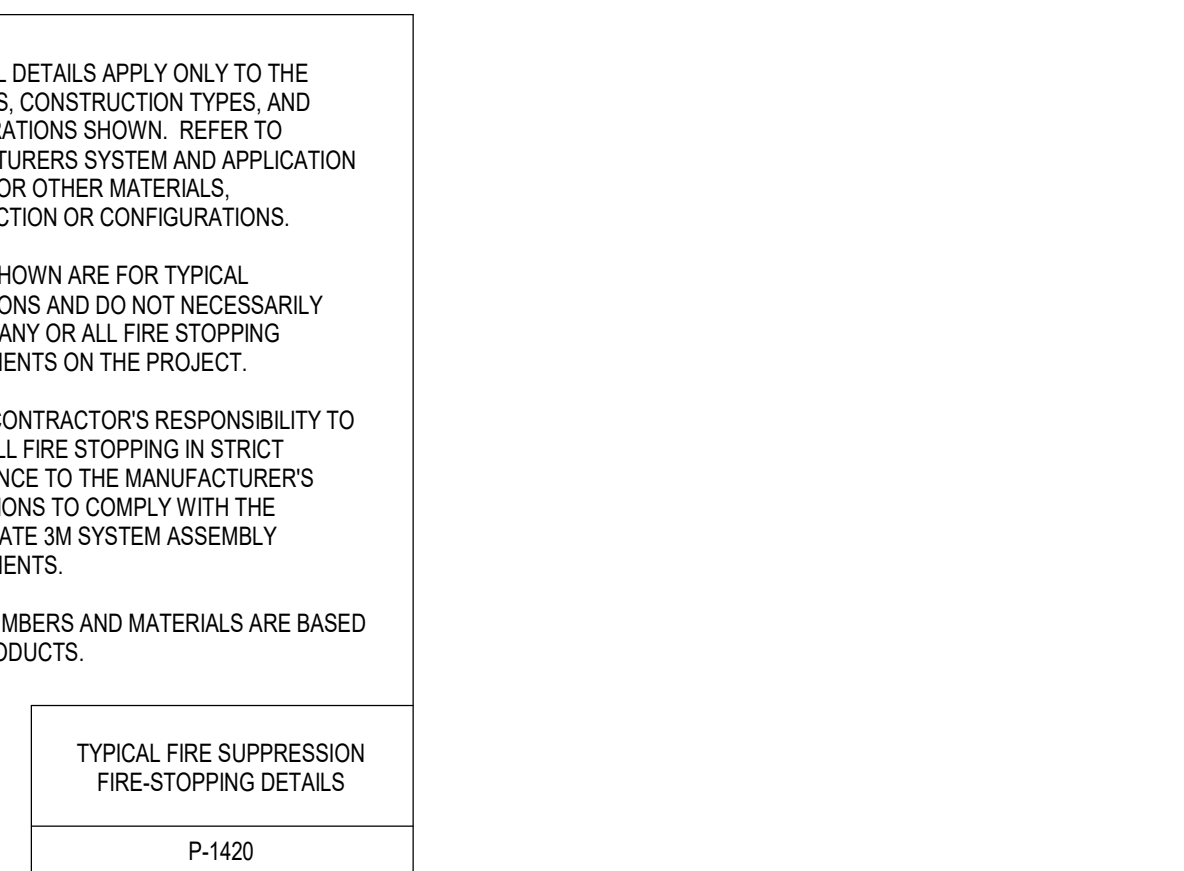
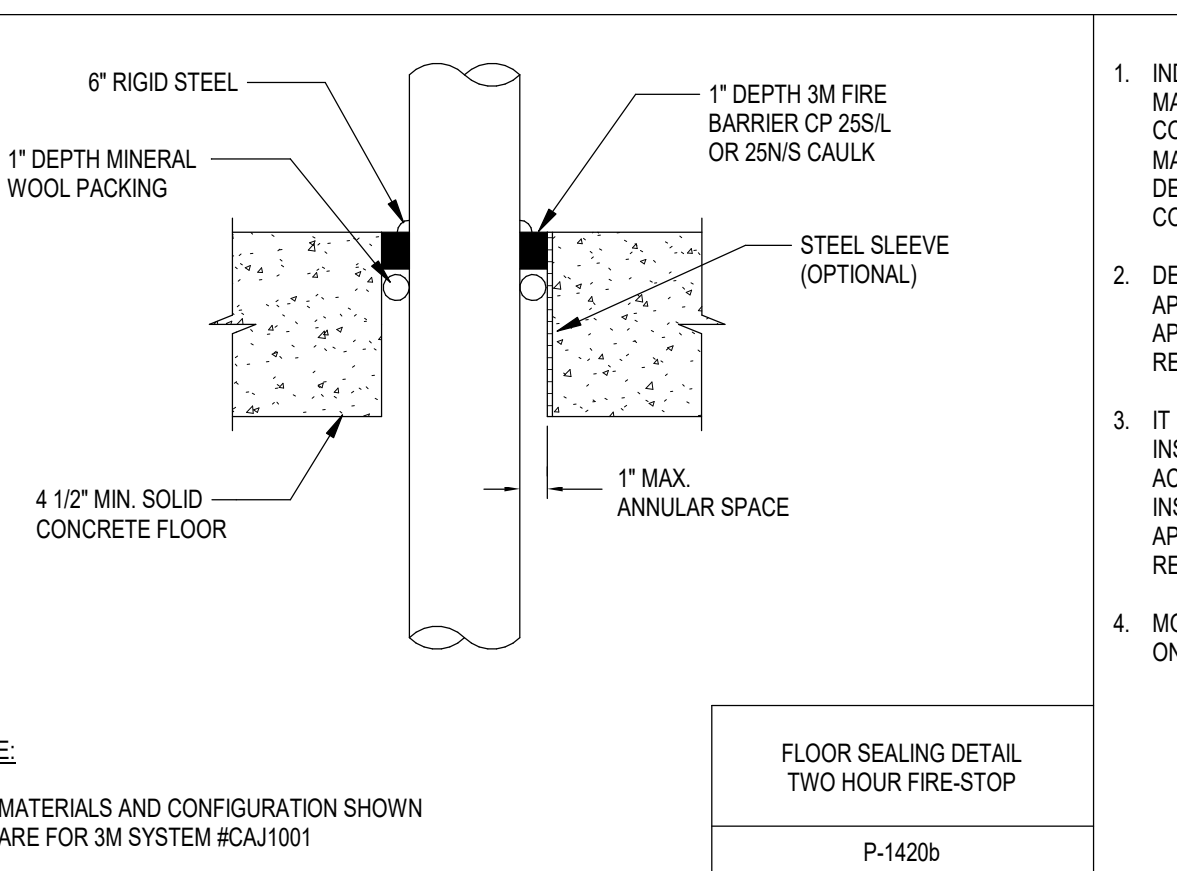
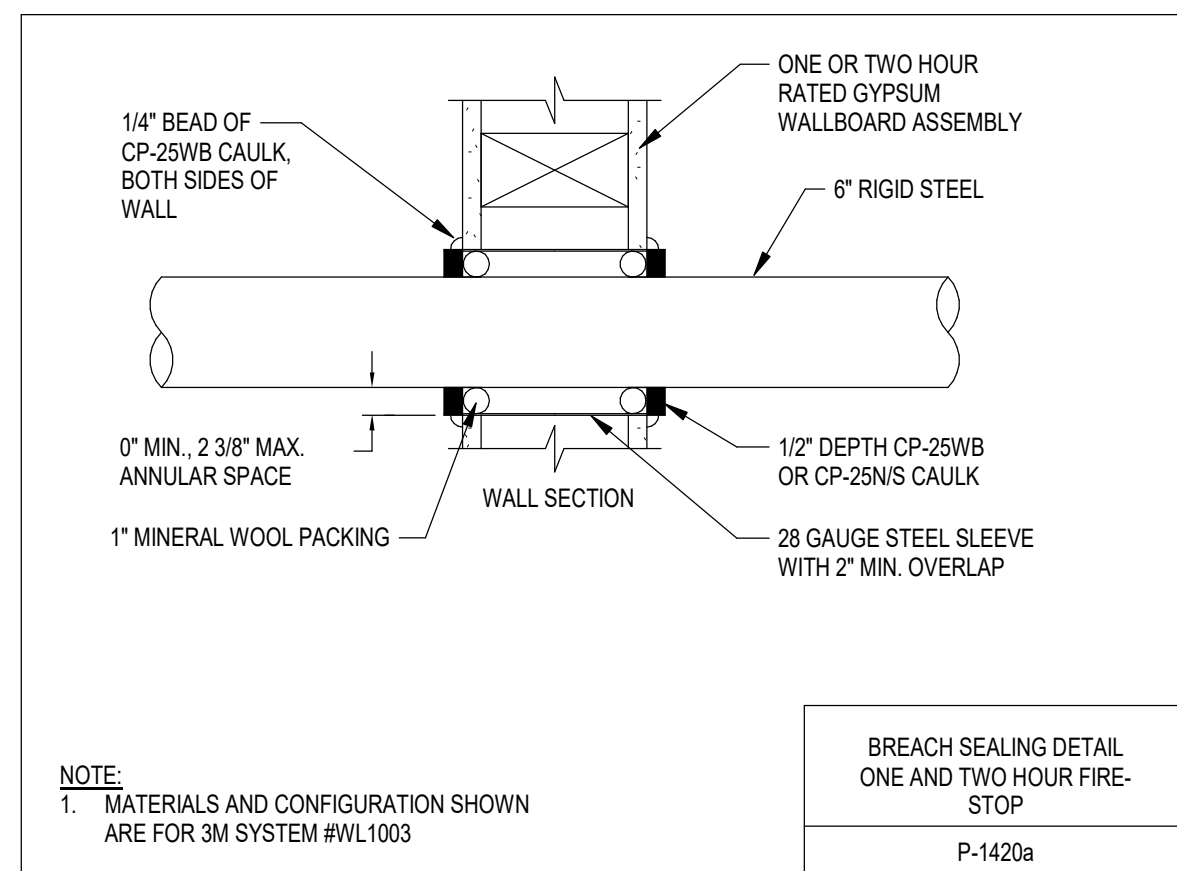
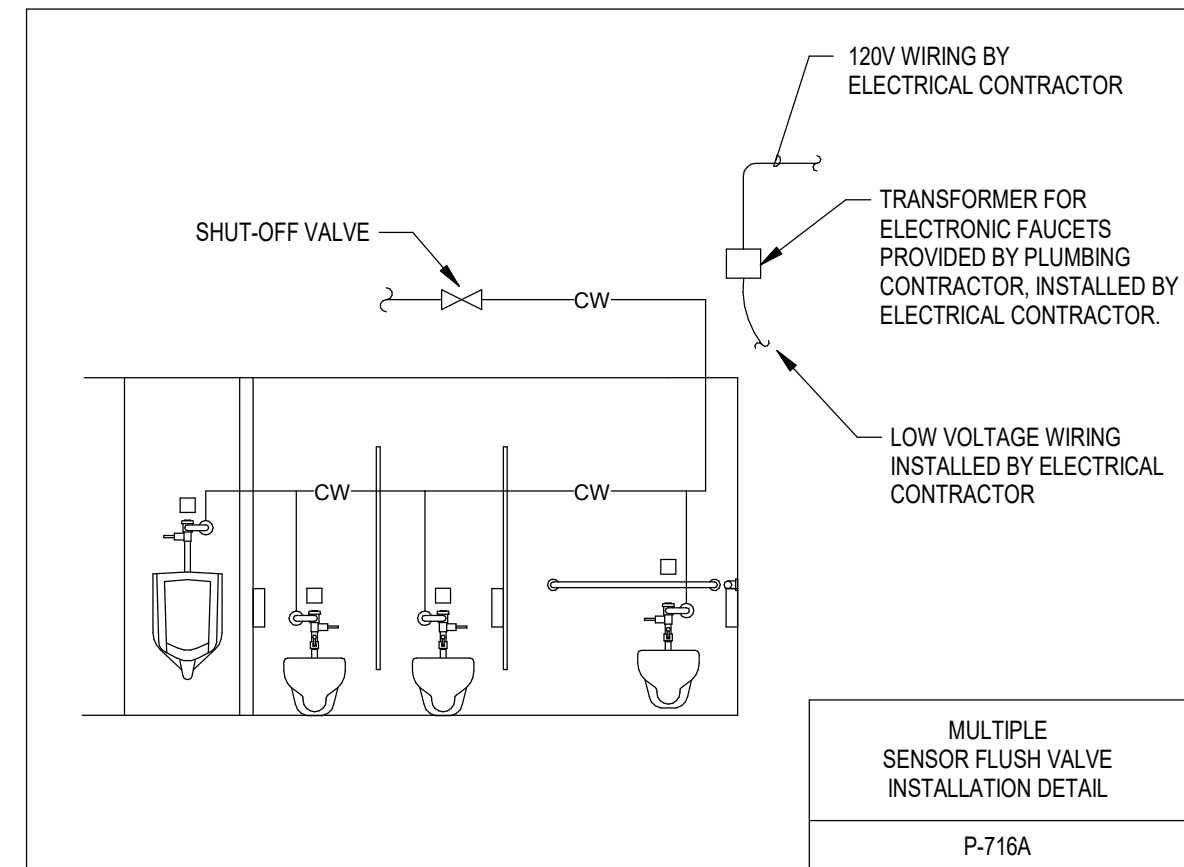
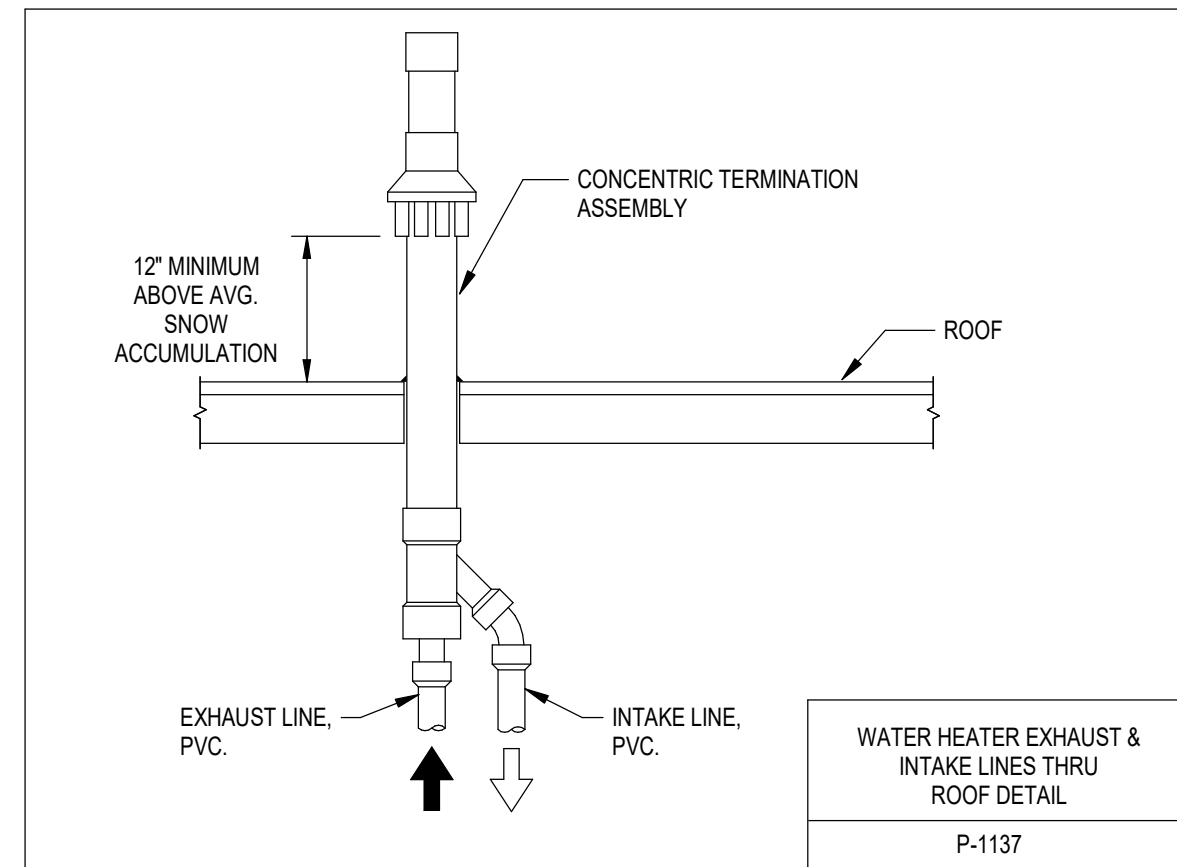
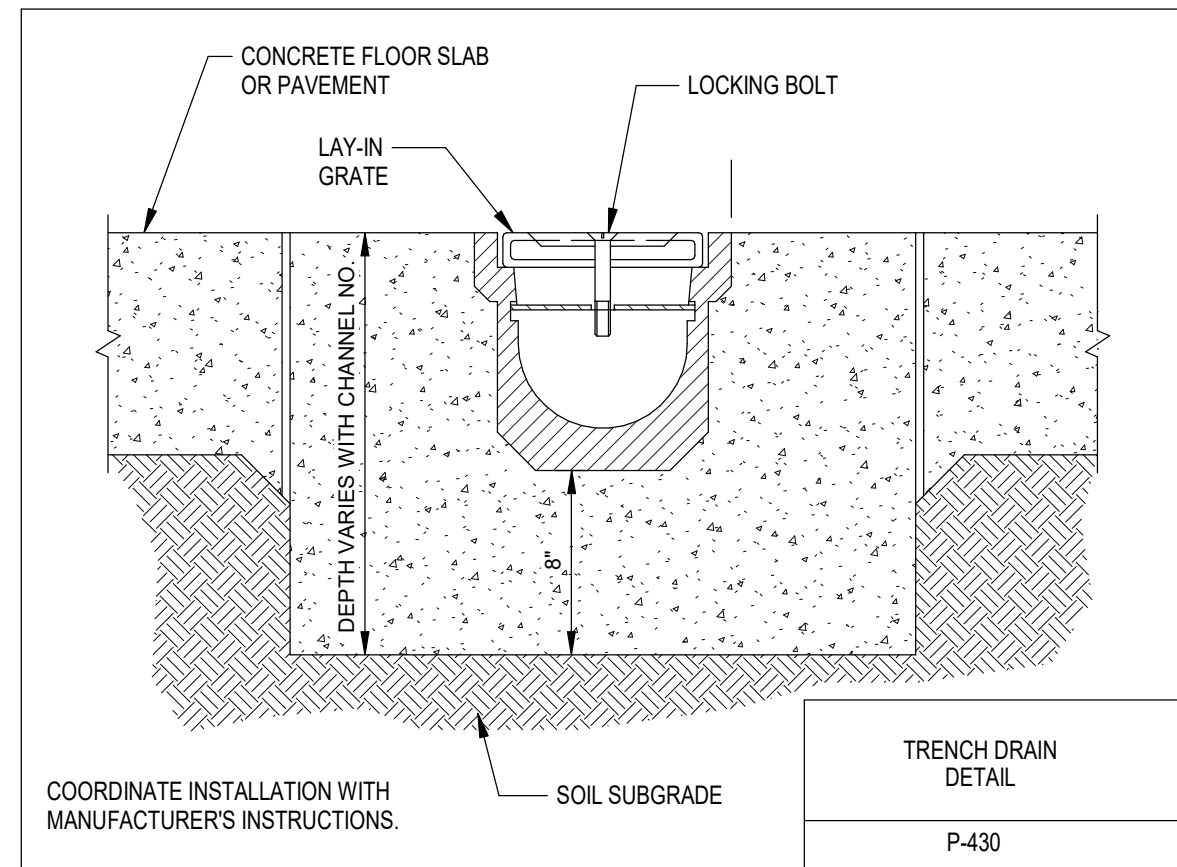
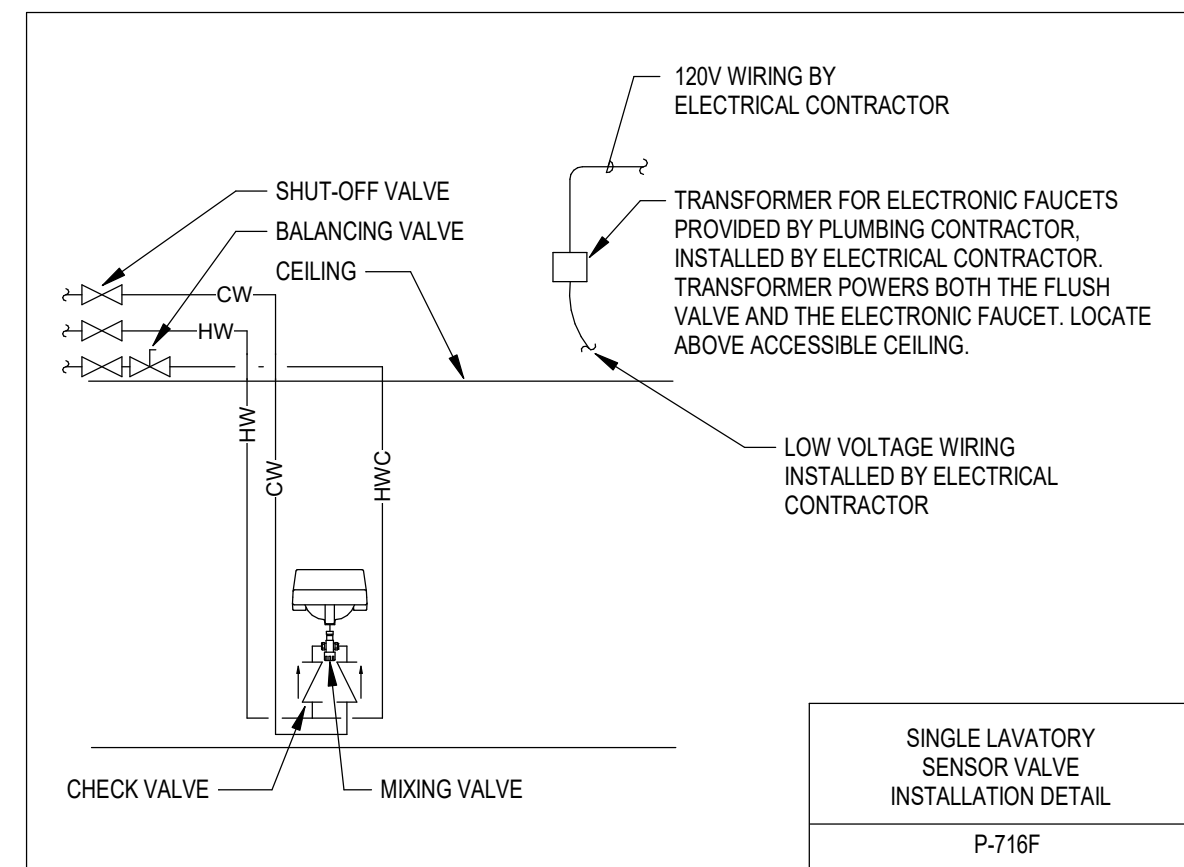
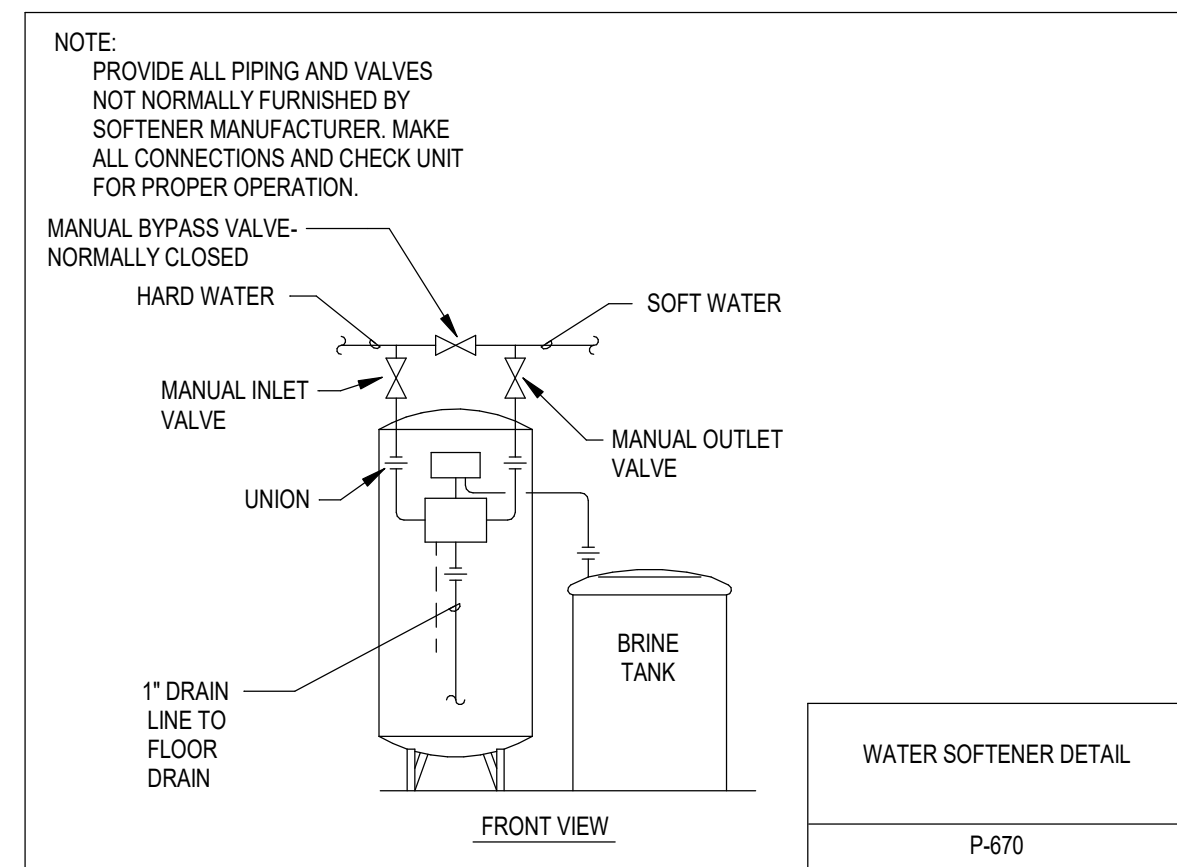
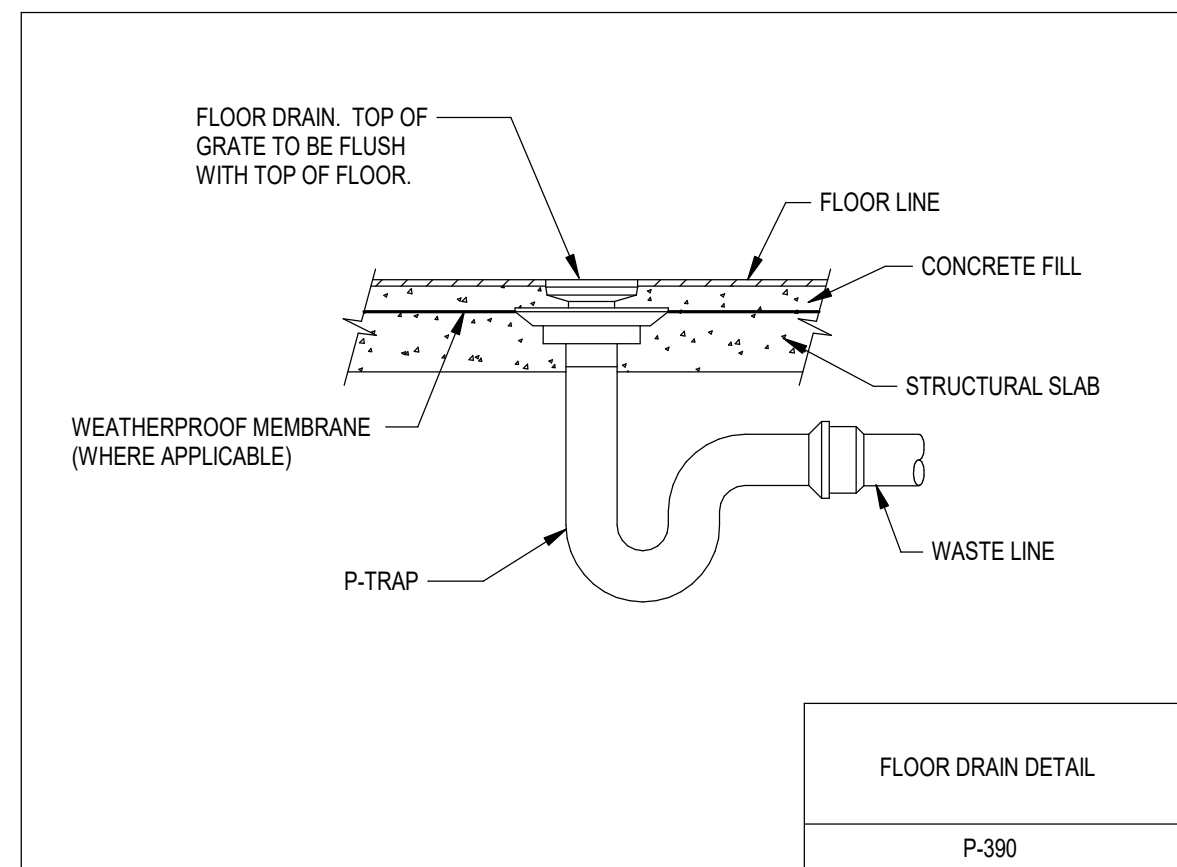
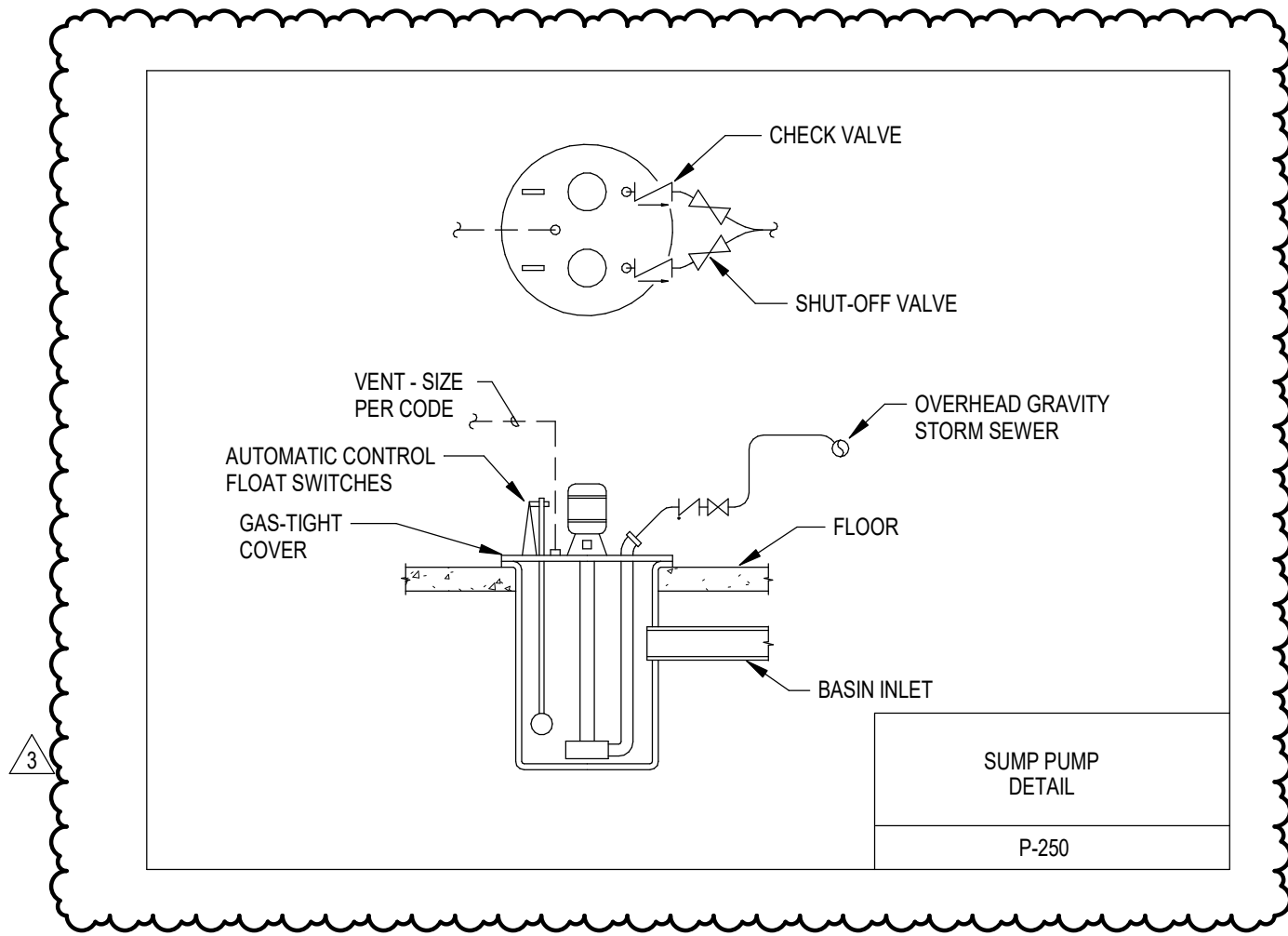
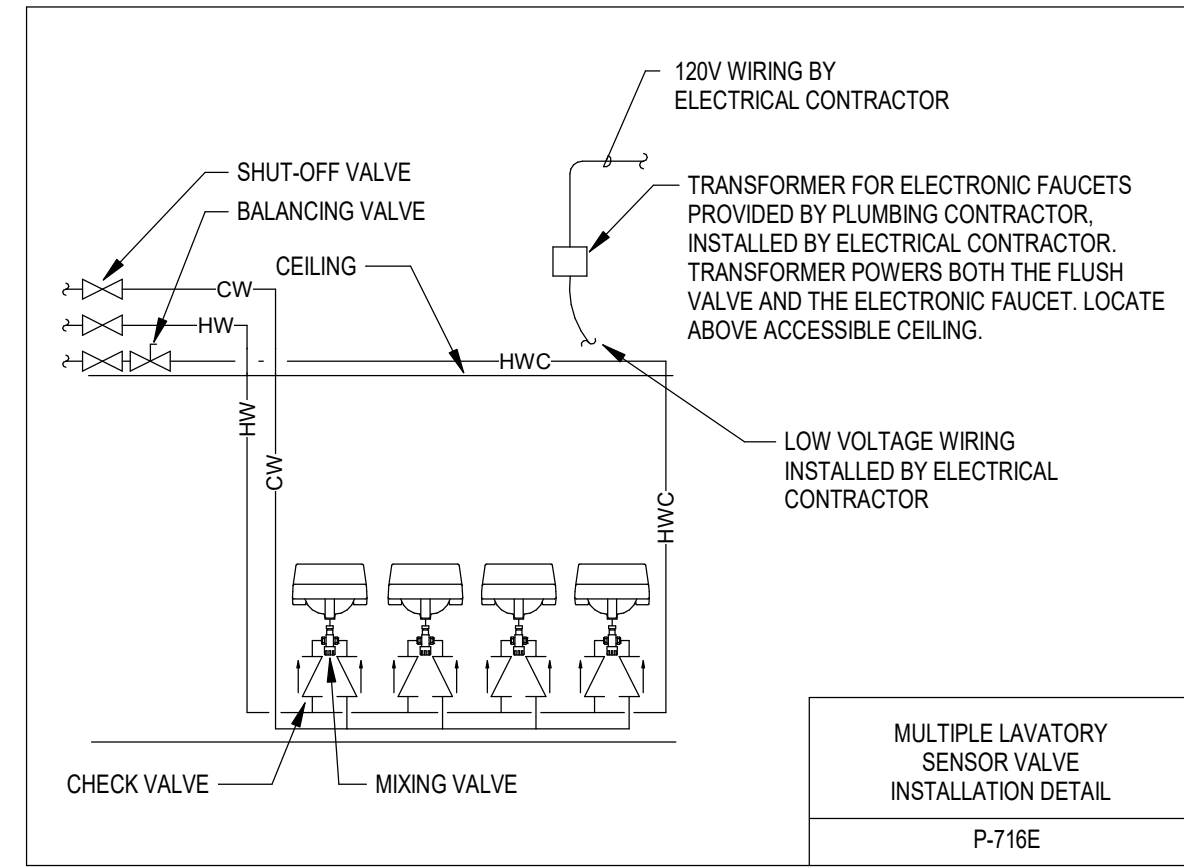
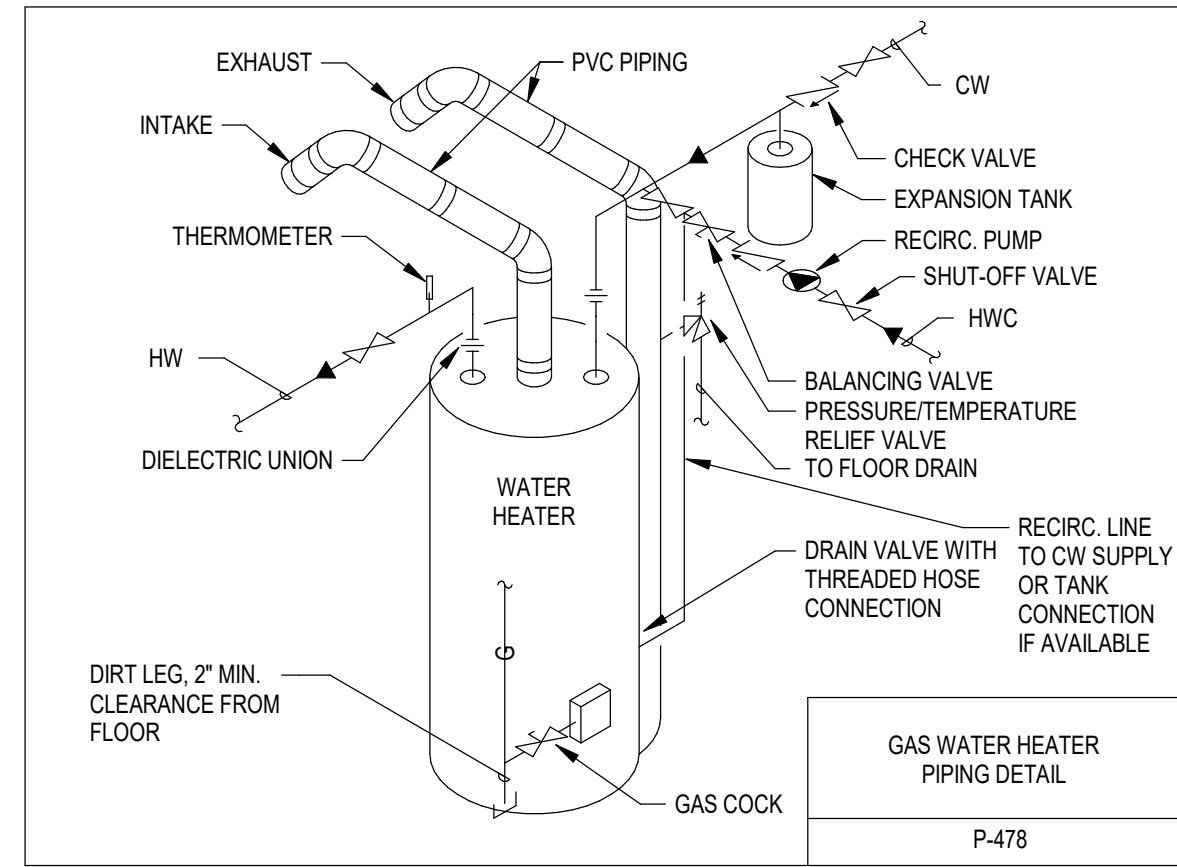
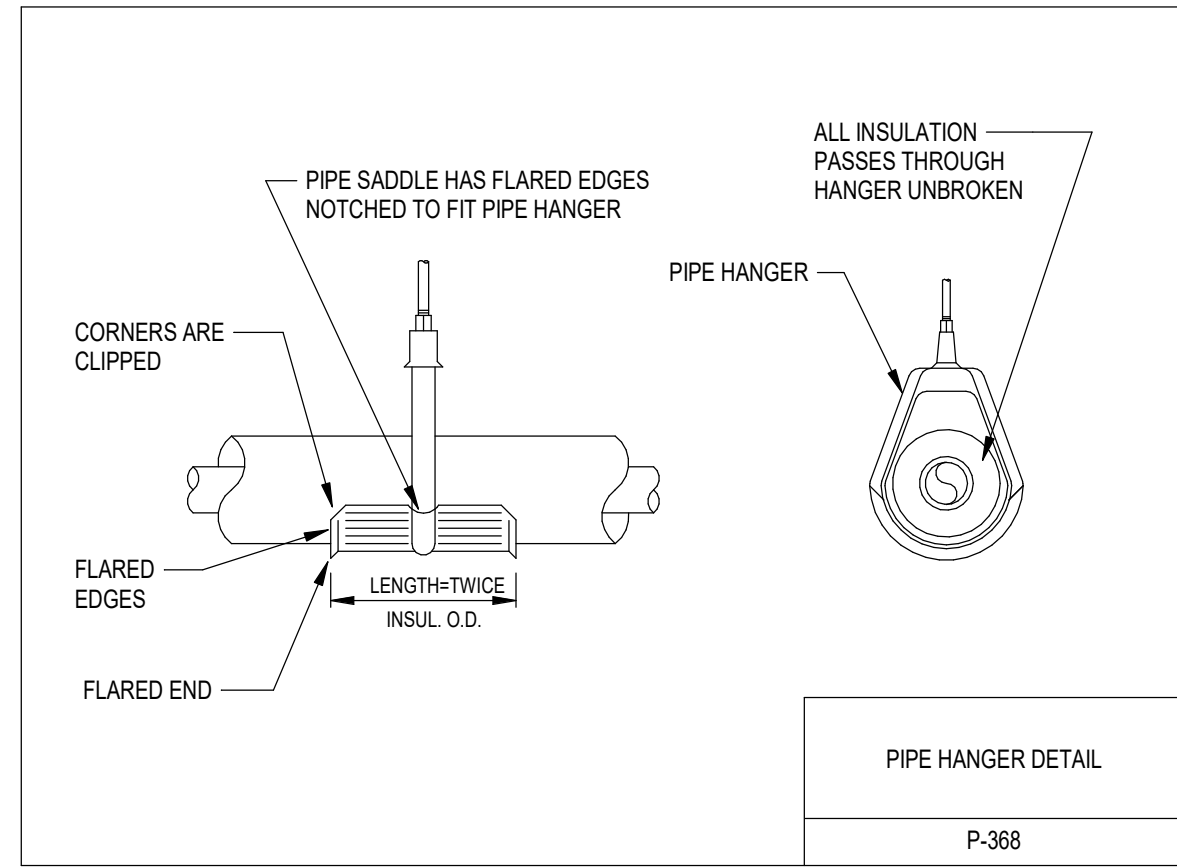
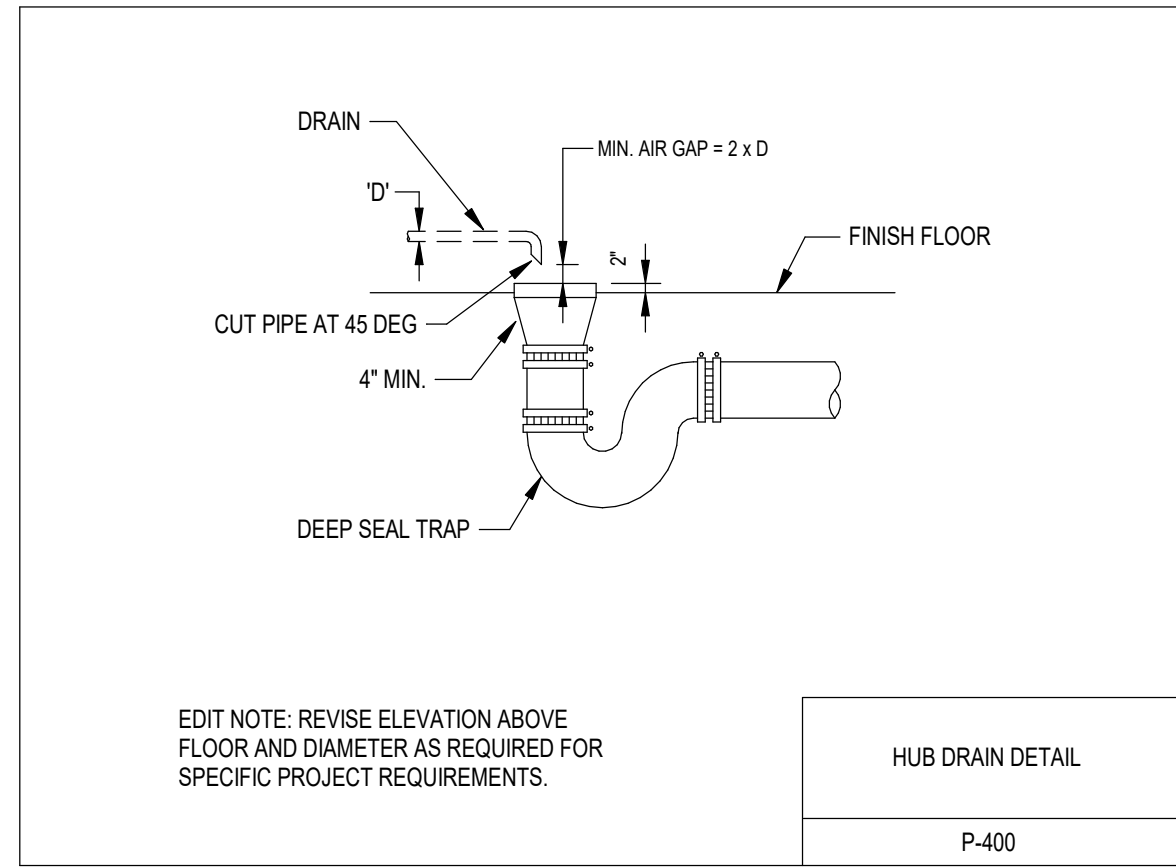
3 SUPPLY ISOMETRIC 2
NOT TO SCALE



2 SUPPLY ISOMETRIC 1
NOT TO SCALE

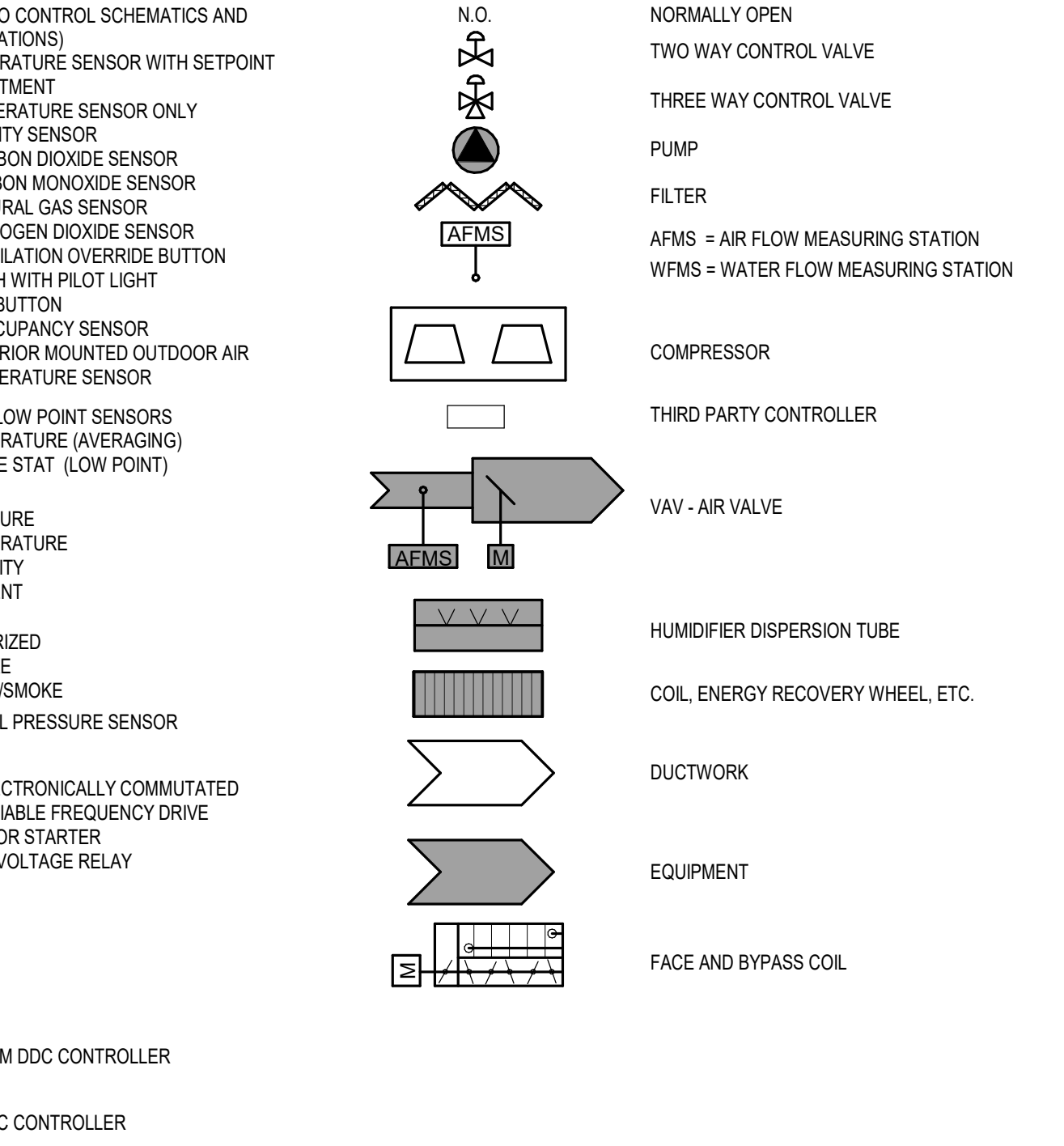
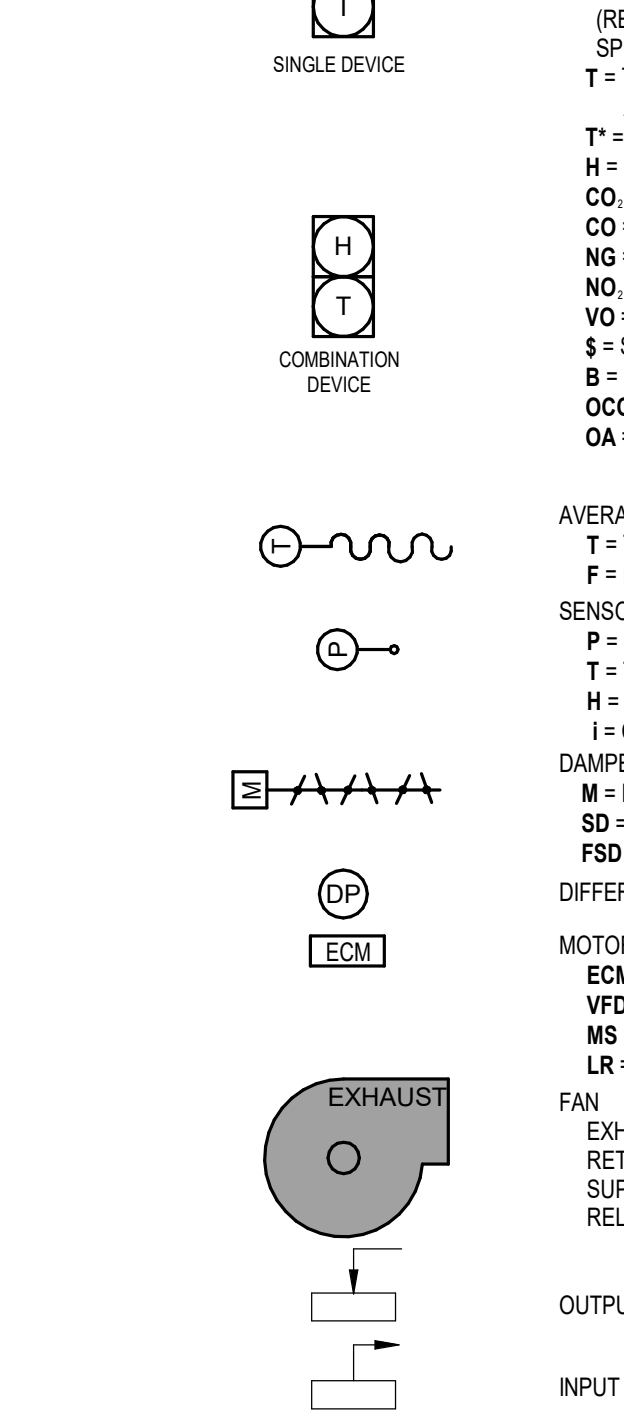
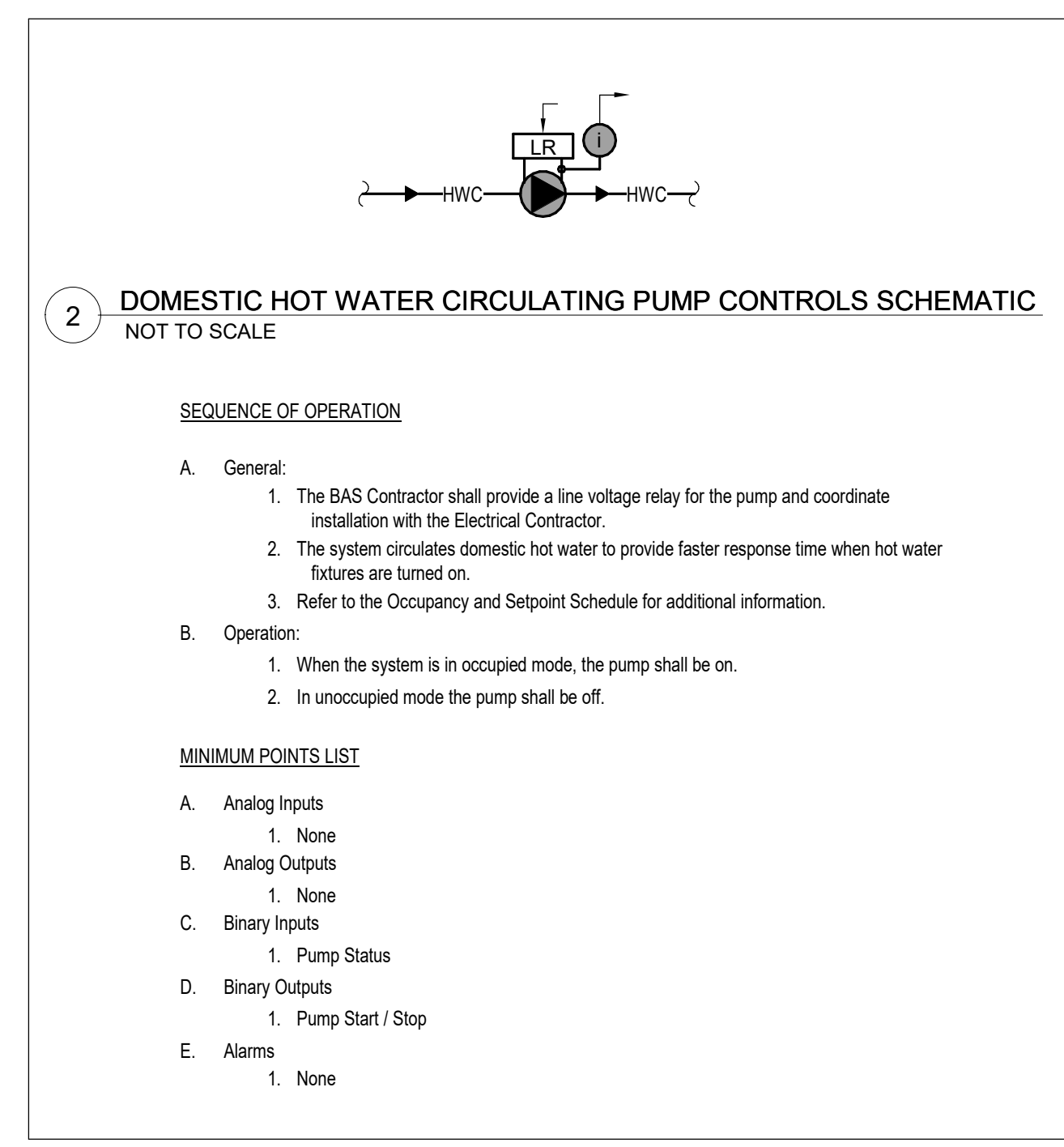
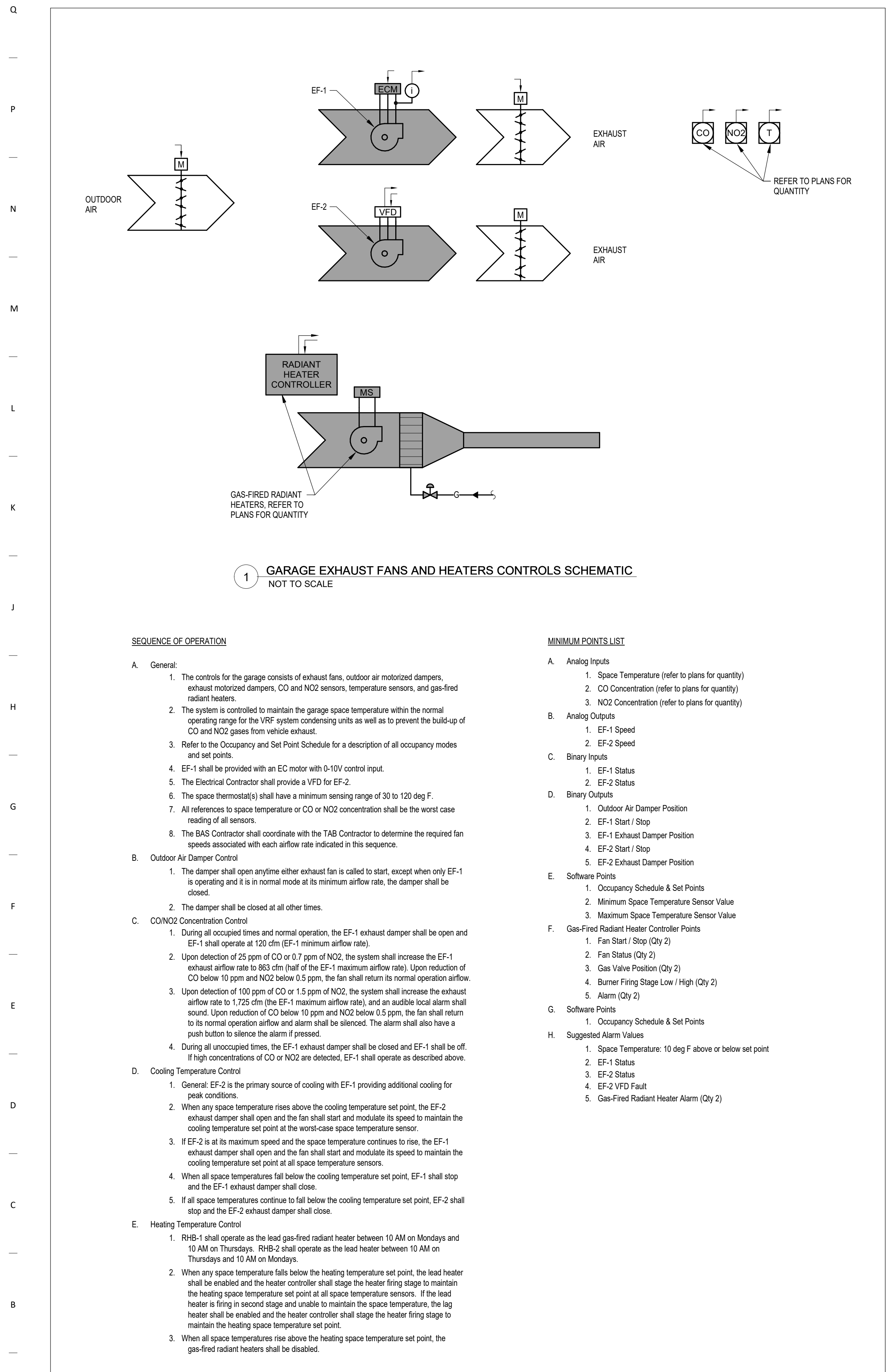
1 WASTE AND VENT ISOMETRIC
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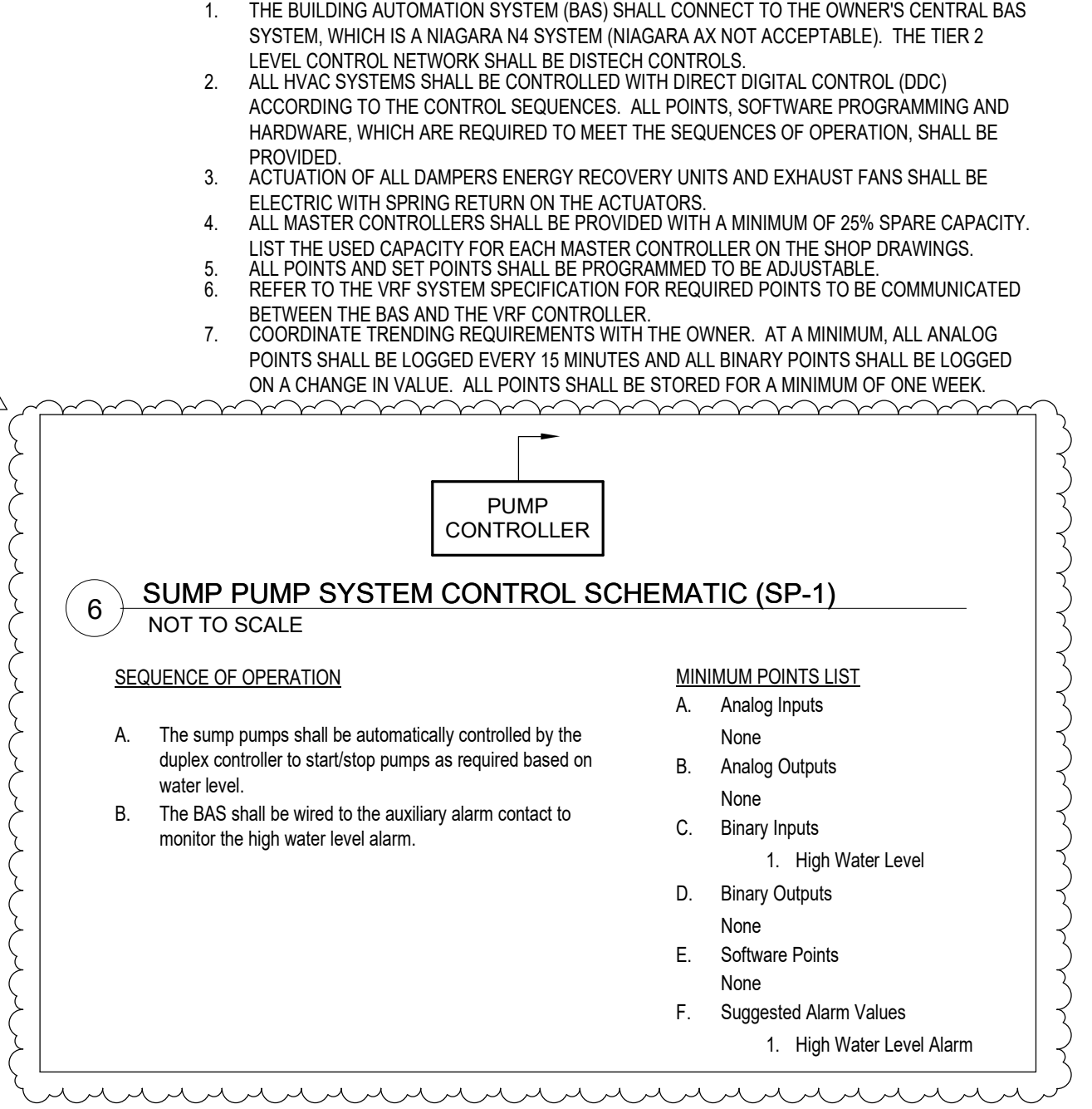
Key Plan

Revision	Description	Date
2	ADDENDUM 02	MARCH 9, 2021



HOURS OF OCCUPANCY AND TEMPERATURE SETPOINT SCHEDULE (NOTE 1)

BUILDING AREA (Note 2)	Office Building		Garage
	VRF System, ERU, CP	Gas-fired Radiant Heaters and Exhaust Fans	
EQUIPMENT (Note 2)			
OCCUPIED SCHEDULE			
Monday thru Friday	N/A	24 hours	24 hours
Saturday & Sunday	N/A	24 hours	24 hours
OCCUPIED			
Cooling Set Point (Note 4)	Deg F	75	102
Heating Set Point (Note 4)	Deg F	70	50
Temperature Deadband	Deg F	+/- 0.5	+/- 2.0
Ventilation (Note 5)	On/OFF	On	N/A
UNOCCUPIED			
Cooling Set Point (Note 4)	Deg F	75	102
Heating Set Point (Note 4)	Deg F	70	50
Temperature Deadband	Deg F	+/- 5.0	+/- 2.0
Ventilation (Note 5)	On/OFF	Off	N/A
THERMOSTAT CHARACTERISTICS			
Temperature Set Point Adjustment (Note 3)	Deg F	+/- 3.0	None
Unoccupied Override	N/A	Thermostat Button	N/A
Display	N/A	Digital	None
NOTES:			
1. All settings listed in this schedule shall be reviewed with the Owner prior to programming and shall be adjustable in the DDC system. The DDC system shall also have the capability to program holidays.			
2. Equipment and building areas are used to define general occupancy schedules for areas of the building. Building areas may include other equipment that have the same occupancy schedule but that may have more or less detailed zones within the zone area.			
3. Unless noted otherwise, the space temperature setpoint shall be adjustable at the sensor within the range as indicated.			
4. The controls sequences shall include optimal start. Optimal start uses the outdoor air temperature and space temperature difference from set point to determine when a piece of equipment must turn on to have the room at the occupied temperature set point at the time the occupancy mode changes to occupied.			
5. Refer to the plans and sequences for more details regarding ventilation.			



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Revision Description Date

2. ADDENDUM 02 MARCH 9, 2021

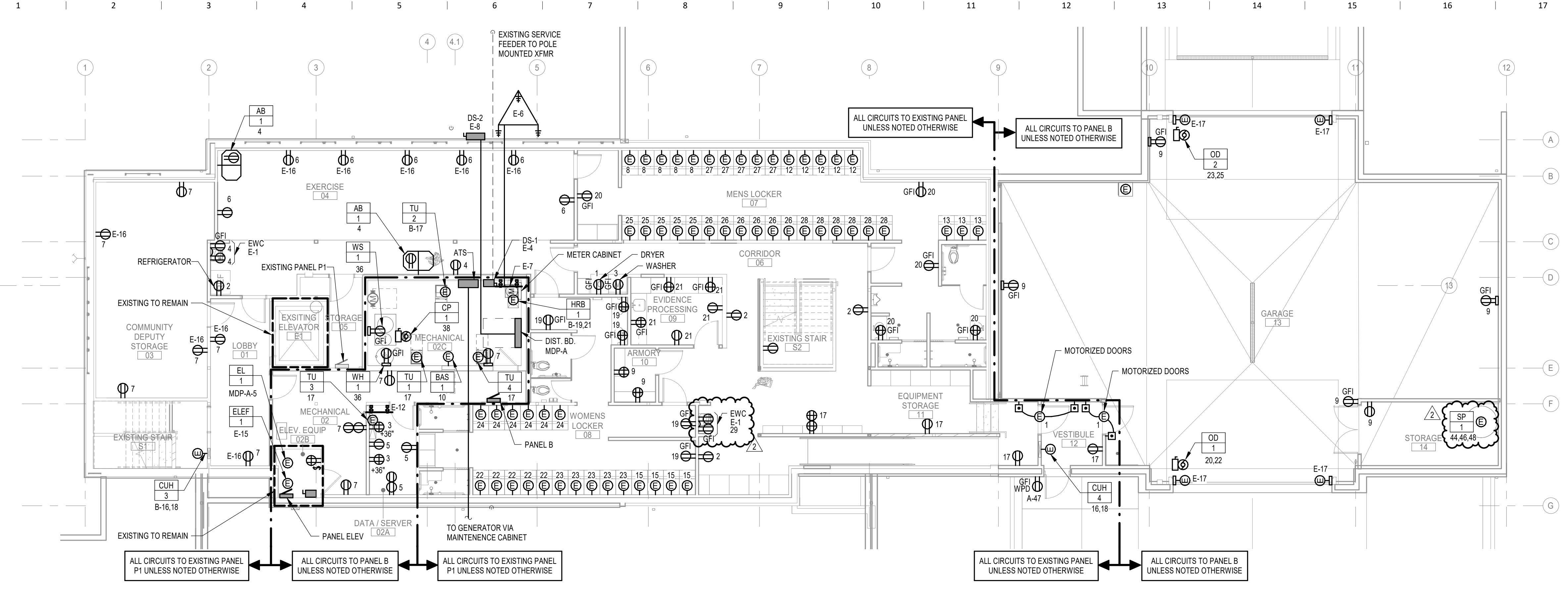
OPN Project No.
20628000

Sheet Issue Date
CONSTRUCTION February 2, 2021
DRAWINGS

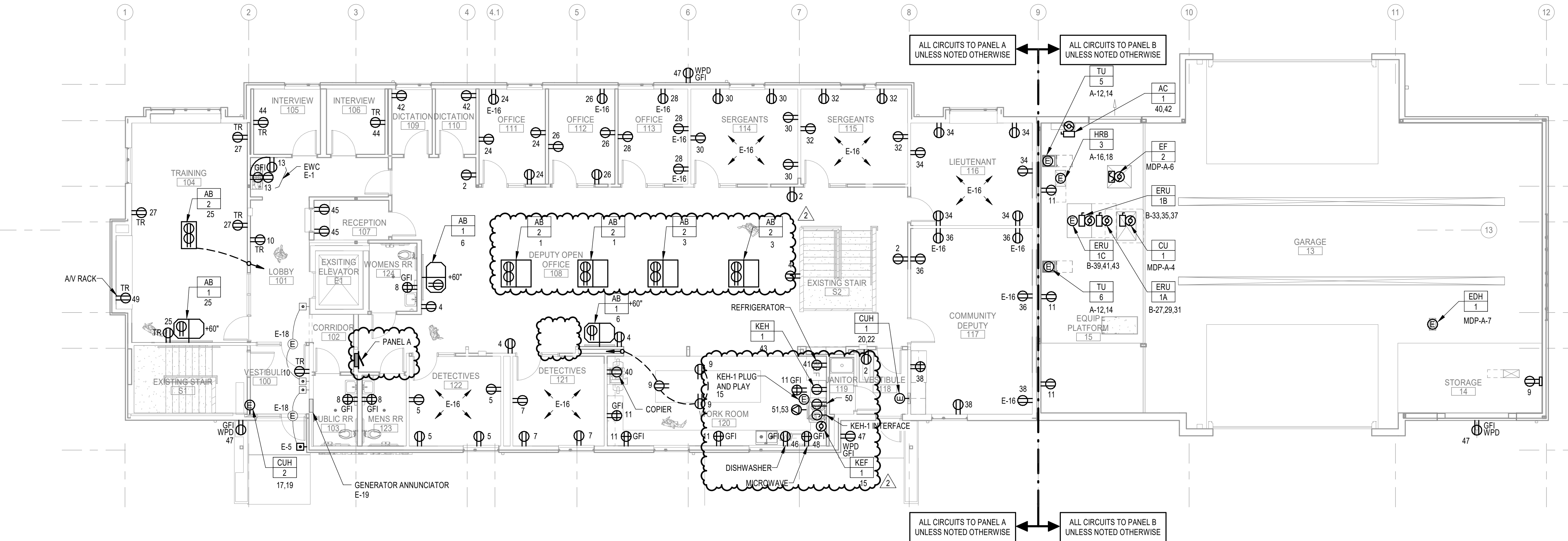
Sheet Name
HVAC CONTROLS

Sheet Number

KEYED NOTES	
E-1	ELECTRIC WATER COOLER (EWC) SHALL BE GFCI PROTECTED THROUGH ADJACENT GFI RECEPTACLE SHOWN ON PLANS. COORDINATE EWC CONNECTION WITH DIVISION 22 PRIOR TO ROUGH-IN. PROVIDE LABEL TO IDENTIFY SOURCE GFI LOCATION.
E-4	BOND SERVICE DISCONNECT GROUND TERMINALS TO GROUND BAR WITH #10 COPPER (KEY NOTE E-7). PROVIDE NEUTRAL GROUND BUS LINK.
E-5	REUSE EXISTING ADA PUSHBUTTON AND REINSTALL. EXTEND CONDUIT AS NECESSARY.
E-6	PROVIDE TRIAD GROUND TO SUPPLEMENT BUILDING GROUND SYSTEM. BOND TO BUILDING GROUND BAR. SEAL PENETRATION THROUGH EXTERIOR WALL. PROVIDE CONDUIT SUPPORTS AS NECESSARY. USE #10 COPPER AND GROUND RODS PER SPEC 26 0526. SPACE GROUND RODS 6'-0" APART.
E-7	PROVIDE 24"x4"x1/2" COPPER GROUND BAR FOR SERVICE GROUND.
E-8	FUTURE LOCATION OF SOLAR SERVICE PANEL.
E-12	TELECOM MAIN GROUND BAR. BOND TO SERVICE GROUND BAR WITH #10 COPPER (KEY NOTE E-7).
E-15	PROVIDE CONNECTION TO EXISTING ELEVATOR AND MACHINE ROOM FAN PER DETAILS ON SHEET E530.
E-16	PROVIDE NEW RECEPTACLE DEVICE AND FACEPLATE IN EXISTING BOX. USE EXISTING RACEWAY WHERE FEASIBLE AND EXTEND AS NECESSARY TO PROVIDE NEW BRANCH CIRCUIT NOTED.
E-17	ELECTRICAL CONTRACTOR SHALL PROVIDE RACEWAY AND WIRING AS REQUIRED TO INSTALL ALL SAFETIES AND CONNECT TO OVERHEAD DOOR MOTOR AND CONTROLLER.
E-18	MAINTAIN EXISTING CIRCUIT TO POWERED DOORS.
E-19	MAINTAIN EXISTING CIRCUIT TO FIRE ALARM ANNUNCIATOR PANEL.



1 POWER PLAN - LOWER LEVEL
1/8" = 1'-0"



2 POWER PLAN - MAIN LEVEL
1/8" = 1'-0"

RECEPTACLE KEY	
TR	INDICATES TAMPER RESISTANT (SAFETY TYPE) RECEPTACLE
GFI	INDICATES GROUND FAULT INTERRUPTER RECEPTACLE
TVSS	INDICATES TRANSIENT VOLT SURGE SUPPRESSOR RECEPTACLE
IG	INDICATES ISOLATED GROUND RECEPTACLE
WP	INDICATES RECEPTACLE WITH WEATHERPROOF BOX/FLIPCOVER
WPD	INDICATES RECEPTACLE WITH WEATHERPROOF BOX/CORD AND PLUG COVER
#	NUMBER INDICATES PANEL CIRCUIT NUMBER
##"	DIMENSION INDICATES HEIGHT TO CENTER OF RECEPTACLE ABOVE FINISH FLOOR (+18" IF NOT SHOWN)
USB	INDICATES USB TYPE RECEPTACLE

NEW WORK KEY	
(Solid line)	EXISTING
(Dashed line)	NEW / REVISED
(Light gray fill)	EXISTING EQUIPMENT
(Dark gray fill)	NEW / REVISED EQUIPMENT

REFER TO SHEET S001 FOR INFORMATION ON REQUIRED SEISMIC BRACING FOR COMPONENTS. COORDINATE DESIGN AND INSTALLATION OF SEISMIC BRACING WITH THE GENERAL CONTRACTOR.

Key Plan

Revision	Description	Date
2	ADDENDUM 02	MARCH 9, 2021

OPN Project No.
20628000

Sheet Issue Date
CONSTRUCTION February 2, 2021
DRAWINGS

Sheet Name
OVERALL POWER PLANS

Sheet Number

LIGHT FIXTURE SCHEDULE

PLAN MARK	MANUFACTURERS AND MODEL NUMBERS	DESCRIPTION	LED DETAILS		DRIVER			INPUT WATTS	VOLTS	FIXTURE MOUNTING	NOTES
			COLOR (K)	LUMEN OUTPUT	QTY.	TYPE	DIM MIN.				
LA	AXIS TB2DLED 400U 4000 80 35 SOI SOD S(L) AP UNV DP 1 OR EQUAL BY MARK, PRUDENTIAL, LUX	SUSPENDED LINEAR	3500	400 UP,500 DOWN LUMENS/FT	1	0-10	1%	7.5W/FT	120/277	SUSPENDED 8"	NOTE 2
LB	AXIS BRLED 500 80 35 FL S(L) W UNV DP 1 OR EQUAL BY MARK, PRUDENTIAL, LUX	RECESSED LINEAR	3500	500 LUMENS/FT	1	0-10	1%	4.7W/FT	120/277	RECESSED	NOTE 3
LC	LITHONIA UFIT 4000LM SEF MVOLT GZ10 35K 80CRI OR EQUAL BY WILLIAMS, DAY-BRITE, COLUMBIA, METALUX	HIGH/LOW BAY	4000	6,248	1	0-10	10%	43	120/277	SUSPENDED	NOTE 5
LD	AXIS GPRLED EX 500 80 35 RCG 2 W UNV DP 1 OR EQUAL BY MARK, PRUDENTIAL, LUX	RECESSED PERIMETER	3500	500 LUMENS/FT	1	0-10	1%	4.2W/FT	120/277	RECESSED	NOTE 3
LE	AXIS GPRLED EX 300 80 35 RCG 2 W UNV DP 1 OR EQUAL BY MARK, PRUDENTIAL, LUX	RECESSED PERIMETER	3500	300 LUMENS/FT	1	0-10	1%	2.5W/FT	120/277	RECESSED	NOTE 3
LF	AXIS BRLED 750 80 35 FL S(L) W UNV DP 1 DF OR EQUAL BY MARK, PRUDENTIAL, LUX	RECESSED LINEAR	3500	500 LUMENS/FT	1	0-10	1%	7.5W/FT	120/277	RECESSED	NOTE 3
LG	LITHONIA CLX L48 4000LM SEF FDL MVOLT GZ10 35K 80CRI WH OR EQUAL BY METALLUX, CREE	4' LED STRIP FIXTURE	3500	4,000	1	0-10	10%	30	120/277	SUSPENDED 8'-0"	NOTE 2
LH	JUNO IC1LED G4 14LM 35K 90CRI MVOLT ZT1 17SQ WWH OR EQUAL BY HALO, LIGHTOLIER, WILLIAMS	RECESSED DOWNLIGHT	3500	1,400	1	0-10	1%	17	120/277	RECESSED	
LJ	JUNO IC1LED G4 14LM 35K 90CRI MVOLT ZT10 17SQ WWH OR EQUAL BY HALO, LIGHTOLIER, WILLIAMS	RECESSED DOWNLIGHT	3500	1,400	1	0-10	10%	17	120/277	RECESSED	
LK	JUNO IC1LED G4 14LM 35K 90CRI MVOLT ZT10 12SQ WWH OR EQUAL BY HALO, LIGHTOLIER, WILLIAMS	RECESSED SHOWER LIGHT	3500	1,400	1	0-10	10%	17	120/277	RECESSED	
LL	LITHONIA DSX1 LED P4 30K BLC MVOLT SPA NLTAIR2 PIRHN DNAXD POLE SSS 20" 5C DM18AS VD TP UL DNAXD OR EQUAL BY COOPER OR PRE-APPROVED EQUAL	POLE MOUNTED	3000	11,000	1	0-10	10%	125	120/277	POLE	NOTE 4
LM	LITHONIA (2) DSX1 LED P6 30K 75M MVOLT SPA NLTAIR2 PIRHN DNAXD POLE SSS 20" 5C DM28AS VD TP UL DNAXD OR EQUAL BY COOPER OR PRE-APPROVED EQUAL	POLE MOUNTED	3000	39,000	2	0-10	10%	326	120/277	POLE	NOTE 4
LN	LITHONIA DSXW1 LED 20C 1000 30 TFTM MVOLT PIRFC3V DNAXD OR EQUAL BY COOPER OR PRE-APPROVED EQUAL	WALL MOUNTED	3000	7,700	1	0-10	10%	73	120/277	WALL 13'-0"	NOTE 4
LO	LITHONIA UFIT 8000LM SEF MVOLT GZ10 35K 80CRI OR EQUAL BY WILLIAMS, DAY-BRITE, COLUMBIA, METALUX	HIGH/LOW BAY	4000	9,970	1	0-10	10%	74	120/277	SUSPENDED	NOTE 5
LP	WAVE WW (BENCH LENGTH) 24V XFMR-24-60" OR SIMILAR BY DMX LIGHT OR PRE-APPROVED EQUAL	BENCH LIGHT	2700	137 LUMENS/FT	1	0-10	10%	3.4W/FT	120	BENCH	NOTE 7
LQ	ACULUX INIT350AR 12LM 30K 80CRI 35D E21 MVOLT ICAT NT35QA CD WHSF WSOL OR EQUAL BY COOPER OR PRE-APPROVED EQUAL	FAÇADE LIGHT	3000	1,224	1	0-10	1%	12	120/277	RECESSED	NOTE 6
LR	AXIS TB2SLED 500 80 35 SO 4 W UNV DP 1 S B(#) OR EQUAL BY MARK, PRUDENTIAL, LUX	SURFACE LINEAR	3500	500 LUMENS/FT	1	0-10	1%	4.7W/FT	120/277	SURFACE	
LS	AXIS BRLED 500 80 35 FL S(L) W UNV DP 1 B(#) OR EQUAL BY MARK, PRUDENTIAL, LUX	RECESSED LINEAR	3500	500 LUMENS/FT	1	0-10	1%	4.7W/FT	120/277	RECESSED	NOTE 3
LT	JUNO IC1LED G4 14LM 35K 90CRI MVOLT ZT10 17SQ WWH - BATTERY PACK OR EQUAL BY HALO, LIGHTOLIER, WILLIAMS	RECESSED DOWNLIGHT	3500	1,400	1	0-10	10%	17	120/277	RECESSED	NOTE 8
LU	AXIS CCH SL 700 80 35 CL(#) W UNV DP 1 C OR EQUAL BY COOPER, SIGNIFY, WILLIAMS	COVE LIGHT	3500	700 LUMENS/FT	1	0-10	10%	7.9W/FT	120/277	COVE	NOTE 9
LV	LUMINIS SC355 L1L10 R40 120 MST K27 VS OR PRE-APPROVED EQUAL	EXTERIOR SPOT	2700	924	1	0-10	10%	13	120	POLE	NOTE 10
LW	LITHONIA DSXB 12C 530 30K ASY MVOLT DNAXD OR EQUAL BY COOPER OR PRE-APPROVED EQUAL	EXTERIOR BOLLARD	3000	1700	1	0-10	10%	22	120/277	BOLLARD	NOTE 4
XA	LITHONIA LQM S W 3 R 120/277 EL N OR EQUAL BY SURE LITES, WILLIAMS	EXIT SIGN	NA	NA	NA	NA	NA	1	120-277	VARIES SEE PLANS	NOTE 1
XB	LITHONIA ELM6L UVOLT LTP SDRT OR EQUAL BY ISOLITE, EMERGI-LITE, MULE LIGHTING	EMERGENCY WALLPACK	NA	1,100	NA	NA	NA	22	120-277		

KEY:
3W =Three Wire Dimming
0-10 =0-10V Dimmed
DA =Digital Addressable
ND =Non-Dimmed
SD =Step Dimmed
DMX =DMX Enabled

GENERAL NOTES:
a. REFER TO SPECIFICATION 265000 FOR ADDITIONAL REQUIREMENTS.
b. PROVIDE A MINIMUM 5 YEAR WARRANTY ON ALL LED PRODUCTS 20W AND GREATER.
c. EQUIVALENT MANUFACTURERS LISTED SHALL MEET PERFORMANCE REQUIREMENTS OF BASE FIXTURE SPECIFIED. EQUIVALENTS SHALL NOT CONSUME MORE THAN 10% IN WATTAGE OR BE LESS THAN 5% LUMENS.
d. COORDINATE WITH ARCHITECTURAL CEILING PLANS FOR CEILING TYPES PRIOR TO SUBMITTAL PROCESS. VERIFY PLANNED CEILING TYPES COORDINATE WITH SPECIFIED FIXTURES.
e. COORDINATE FIXTURES LOCATED IN NON-ACCESSIBLE CEILINGS ARE ACCESSIBLE FROM BELOW THROUGH THE FIXTURE, PRIOR TO SUBMITTAL PROCESS.
f. COORDINATE DRIVER TYPE WITH THE LIGHTING CONTROL SYSTEM, PRIOR TO SUBMITTAL PROCESS.
g. COORDINATE MOUNTING HEIGHTS OF ALL EXTERIOR AND INTERIOR FIXTURES WITH ARCHITECTURAL PLANS.

SPECIFIC NOTES:
1. SEE PLANS FOR MOUNTING ORIENTATIONS, CHEVRON ARROWS, AND FACE OPTIONS. FINAL FINISH SELECTION IS TO BE DETERMINED DURING SUBMITTALS.
2. PROVIDE LENGTHS AS SHOWN ON PLANS. PROVIDE ADJUSTABLE AIRCRAFT CABLE WITH STRAIGHT CORD FEEDS. COORDINATE WITH ARCHITECTURAL PLANS FOR CEILING TYPE(S) PRIOR TO ORDERING HANGING HARDWARE. EACH ROW OF FIXTURES SHALL HAVE ONLY ONE FEED POINT WITH CIRCUIT RUN BEING FED THROUGH FIXTURE HOUSING.
3. PROVIDE DRYWALL FLANGE OR T-BAR MOUNTING AS REQUIRED BY CEILING TYPE.
4. LL,LM,LN,LW MUST BE SAME FAMILY OF FIXTURES WITH MATCHING APPEARANCE AND MATERIALS.
5. MINIMAL SUSPENSION LENGTH. MOUNT TO BOTTOM OF STRUCTURE.
6. MOUNT IN EXISTING EAVES.
7. INCLUDE ADDITIONAL ACCESSORIES, LINE CORDS, END CAPS, MOUNTING CLIPS, CHANNELS, ETC. AS NECESSARY.
8. PROVIDE BATTERY PACK DRIVER (BODINE BSL20HV OR EQUAL). MOUNT INTERIOR TO BUILDING JUST INSIDE ADJACENT DOOR. PROVIDE ACCESS AS NECESSARY.
9. PROVIDE CUSTOM LENGTH AS NECESSARY TO LIGHT ENTIRE COVE.
10. COORDINATE MOUNTING WITH FLAG POLE BY DIVISION 1 INCLUDING DRILL PATTERN, HAND HOLES AND HALYARD OPERATION. MOUNT 5" FROM TOP OF POLE.

ACTIVATION BOX SCHEDULE

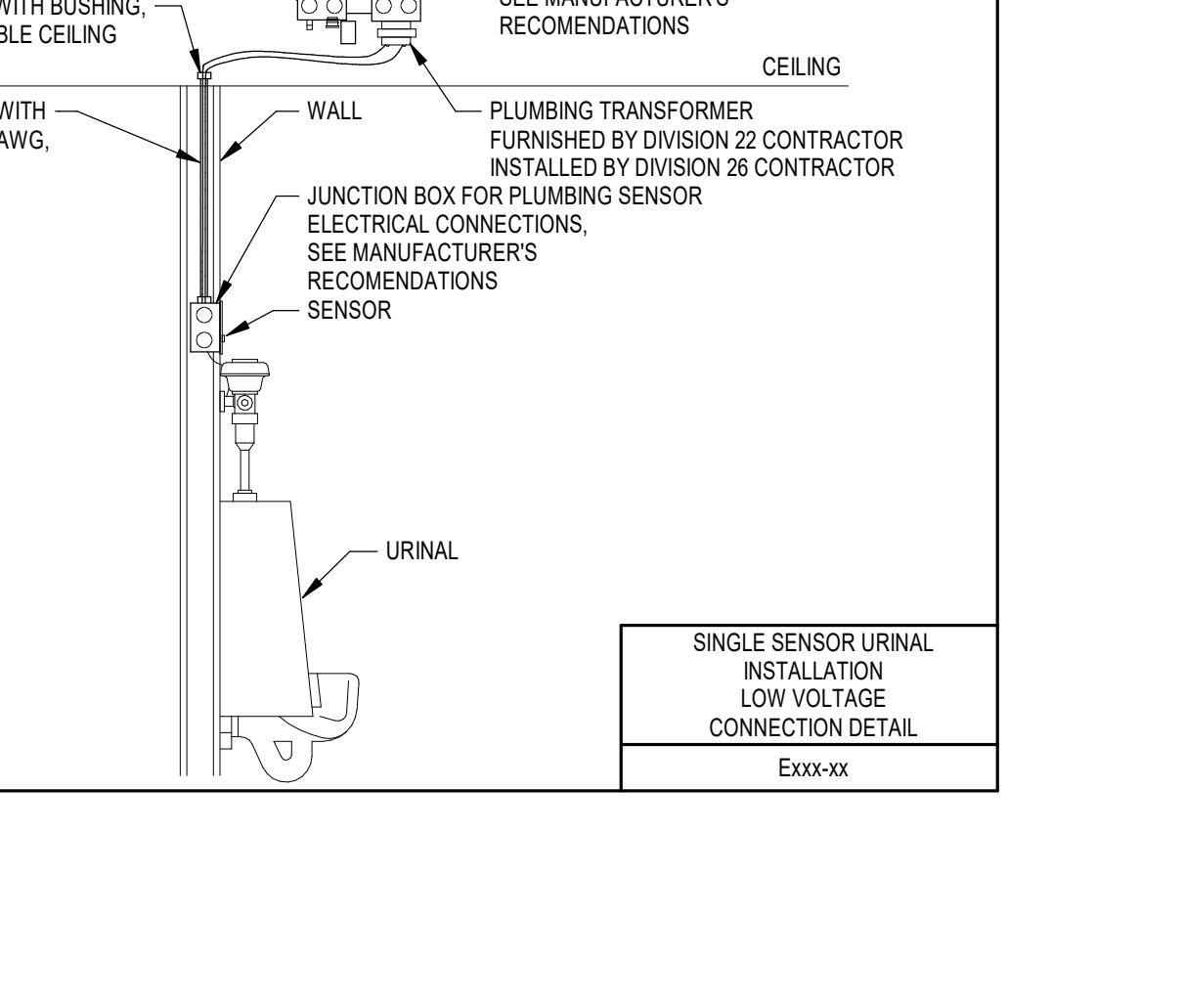
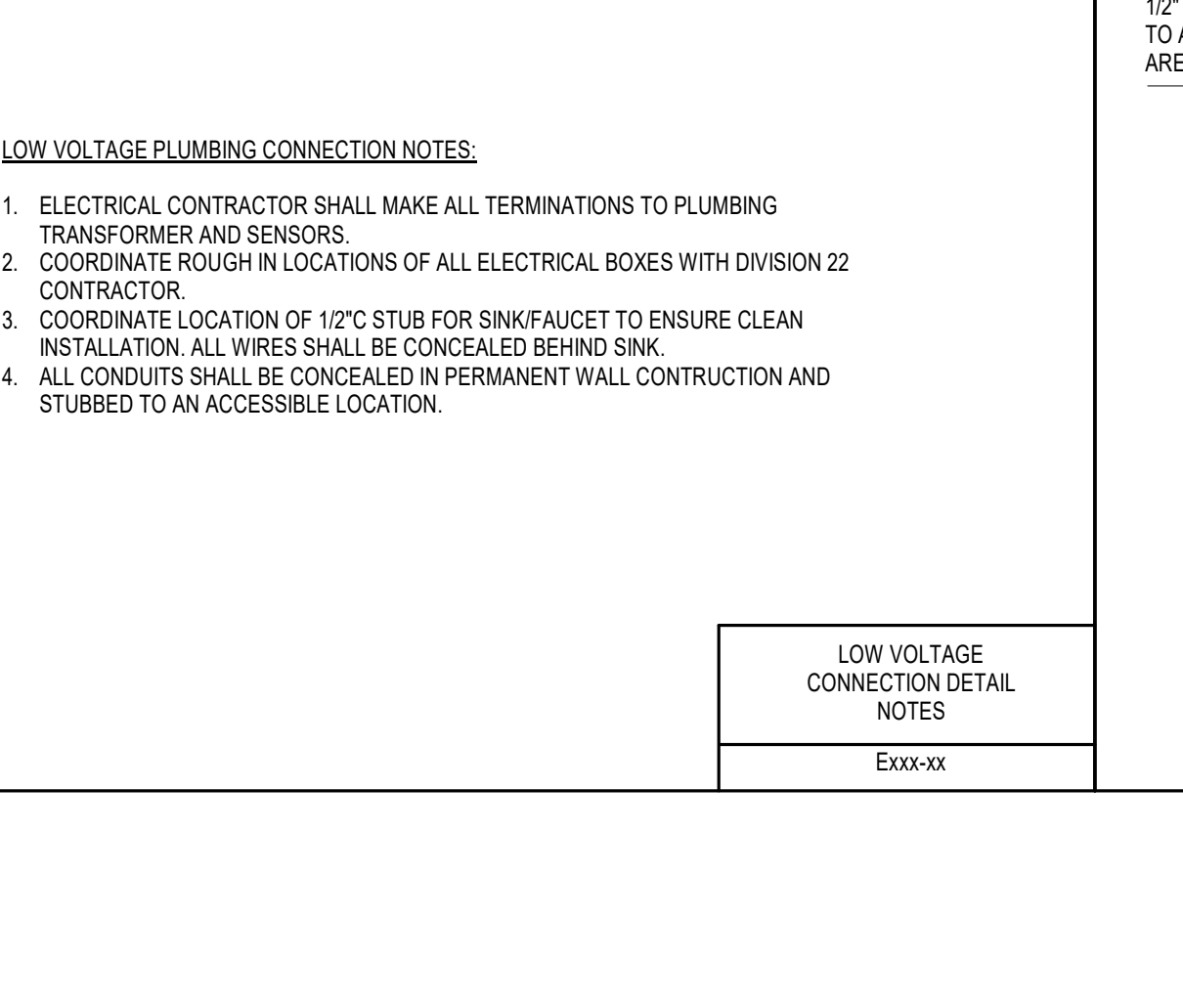
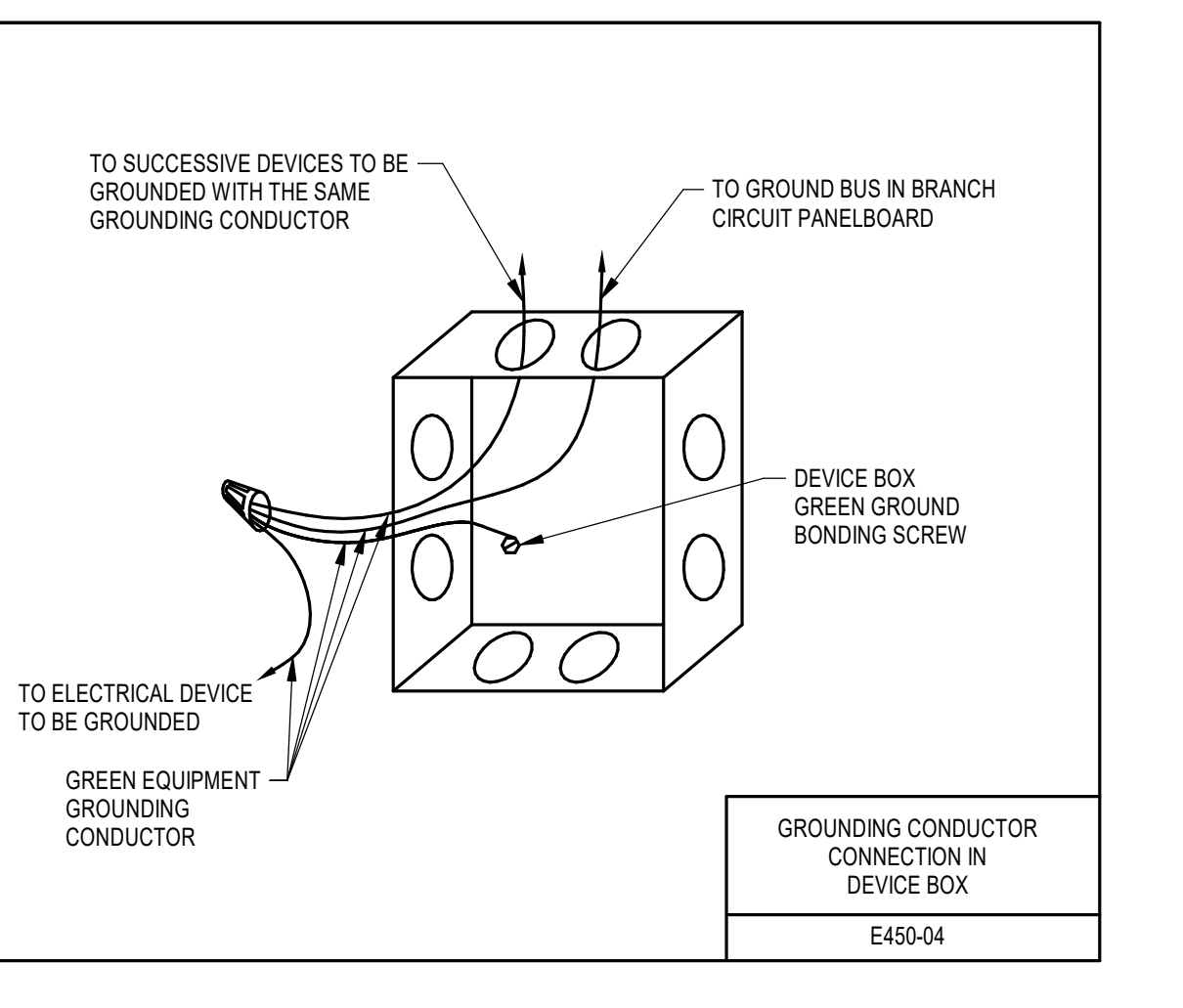
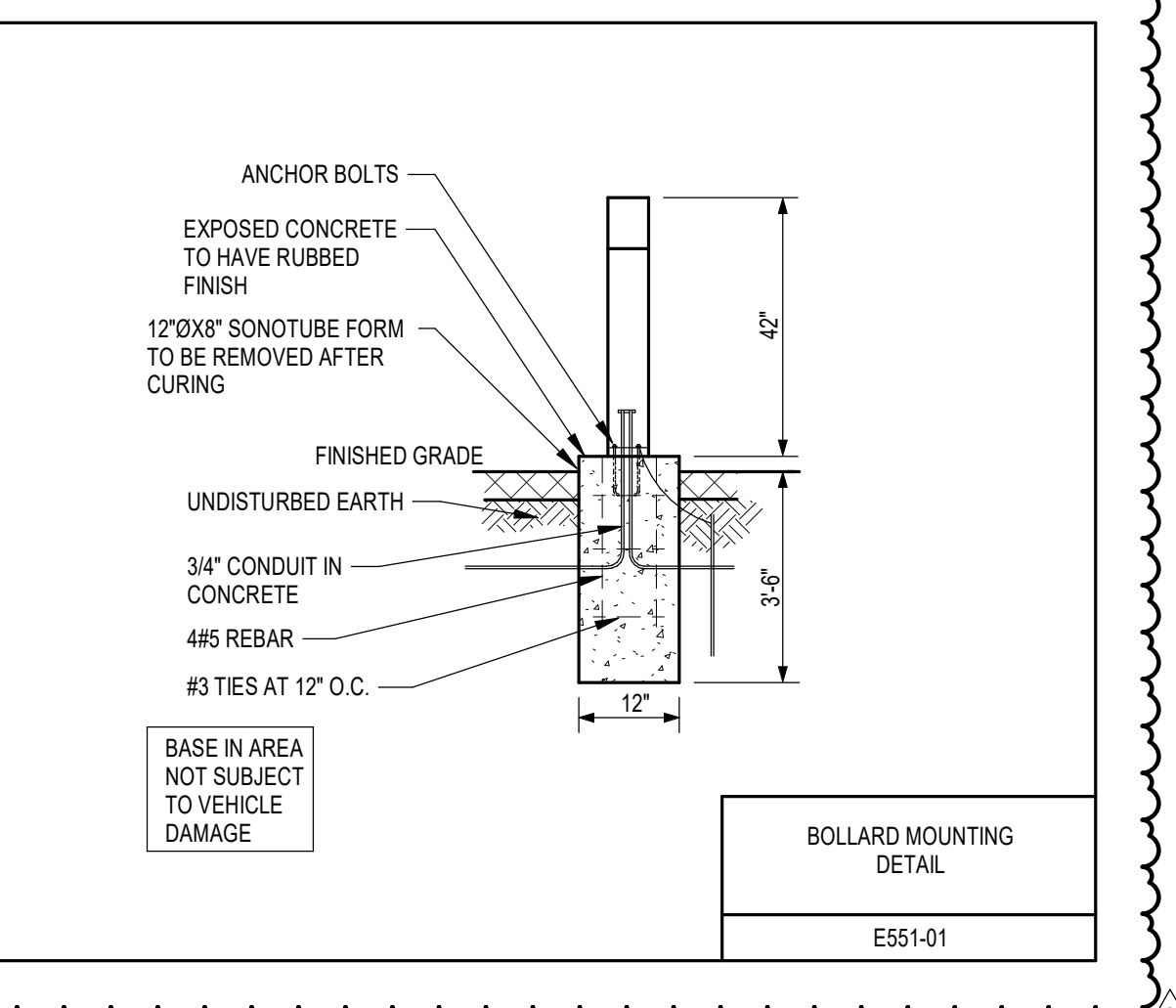
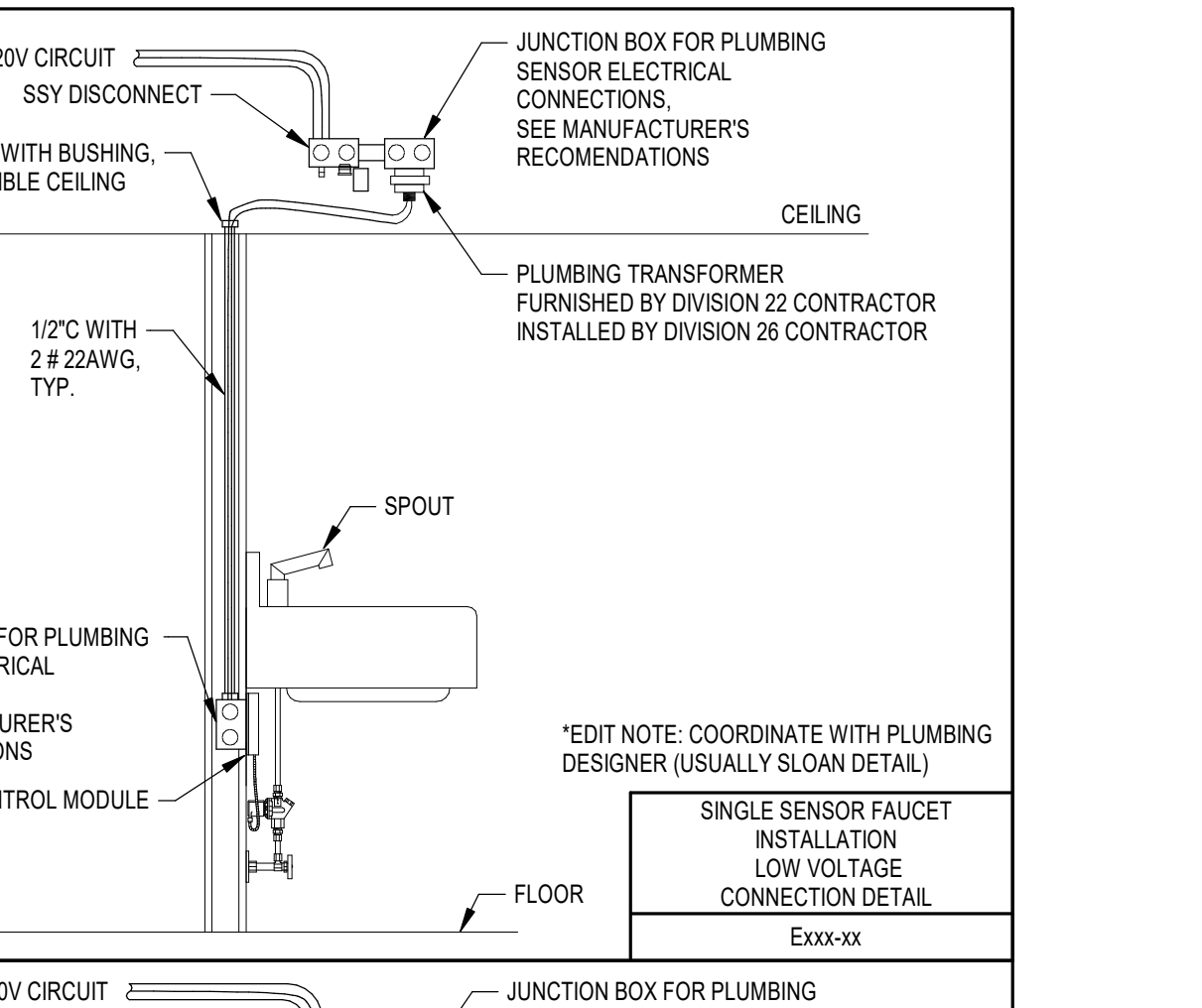
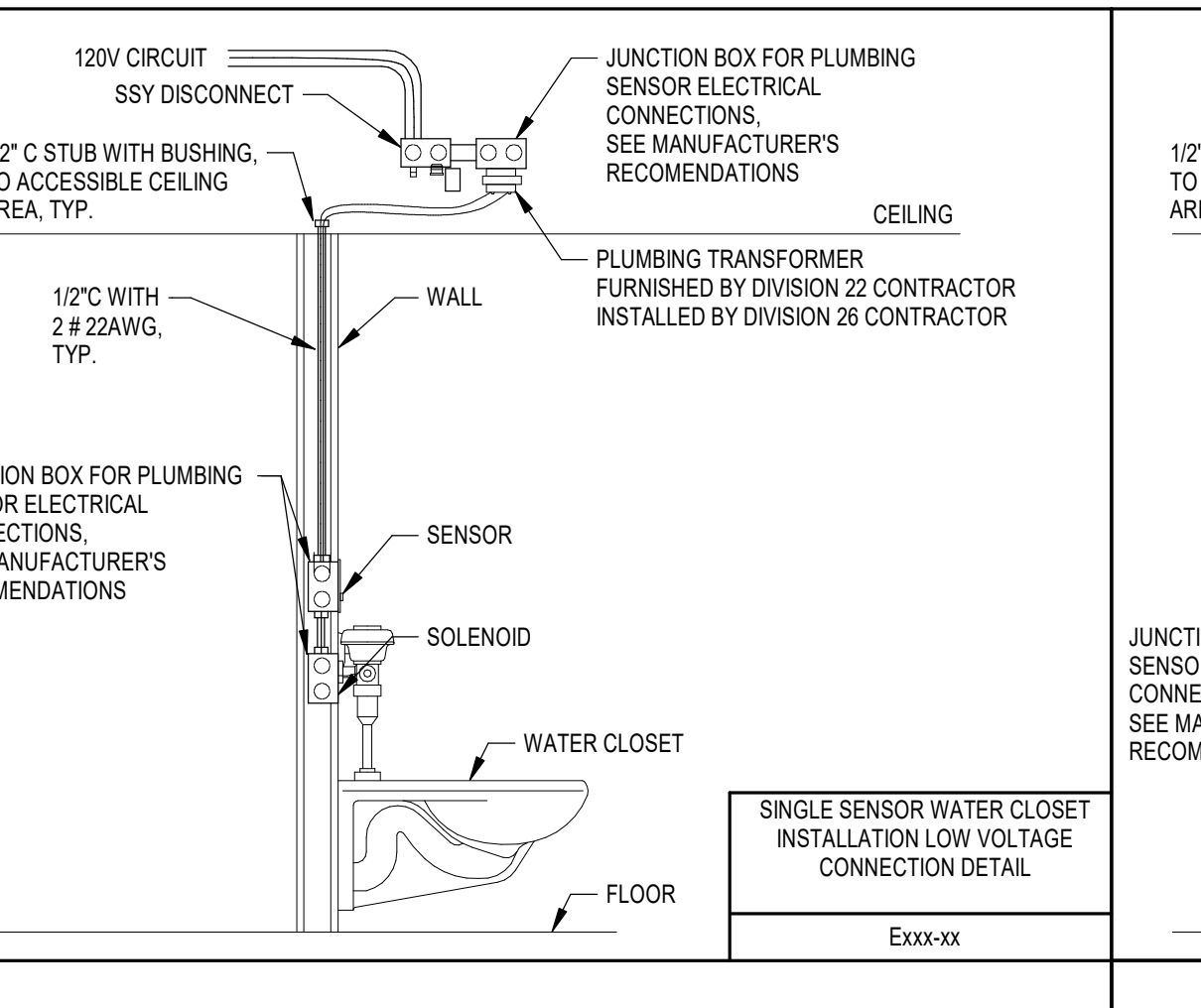
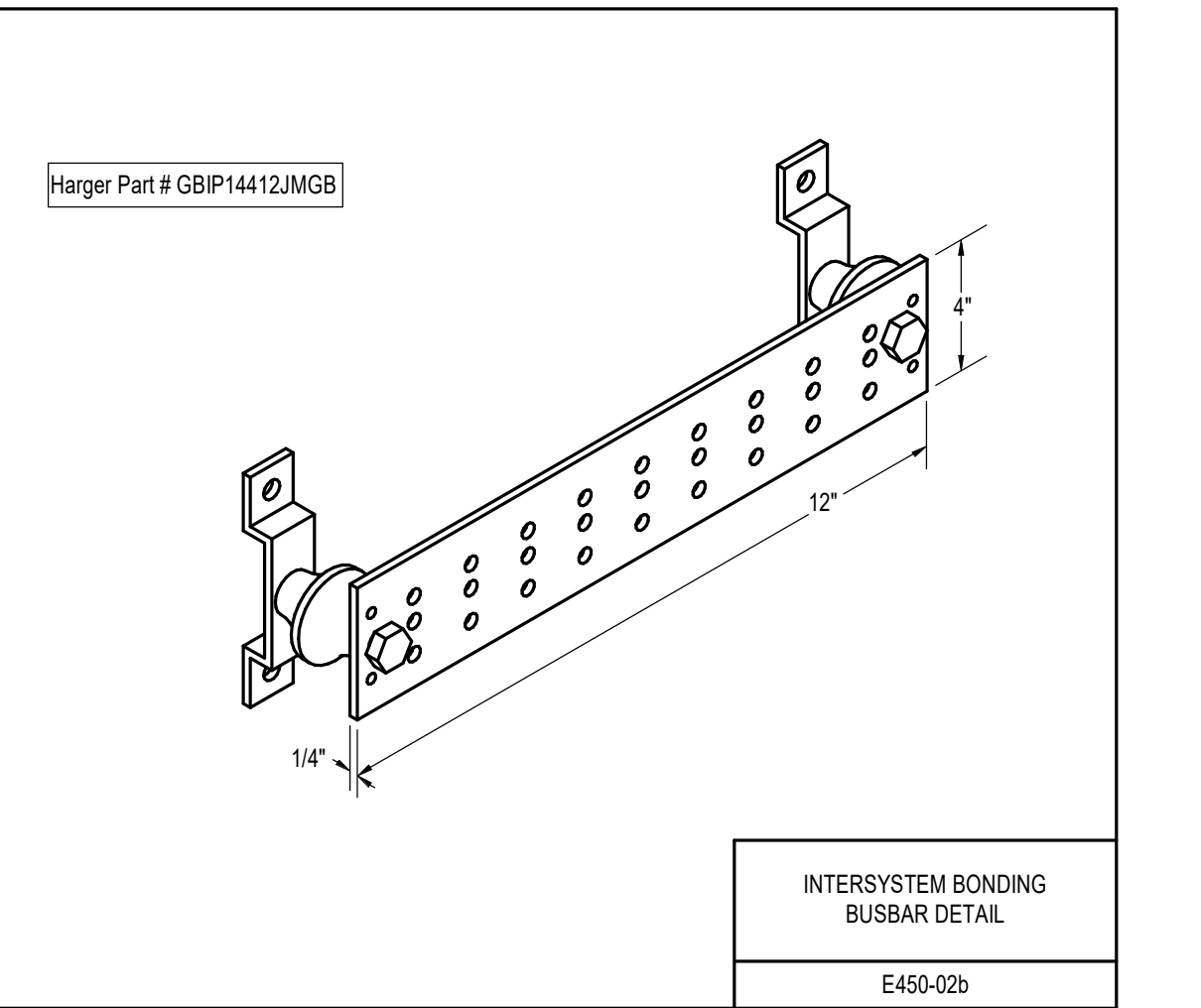
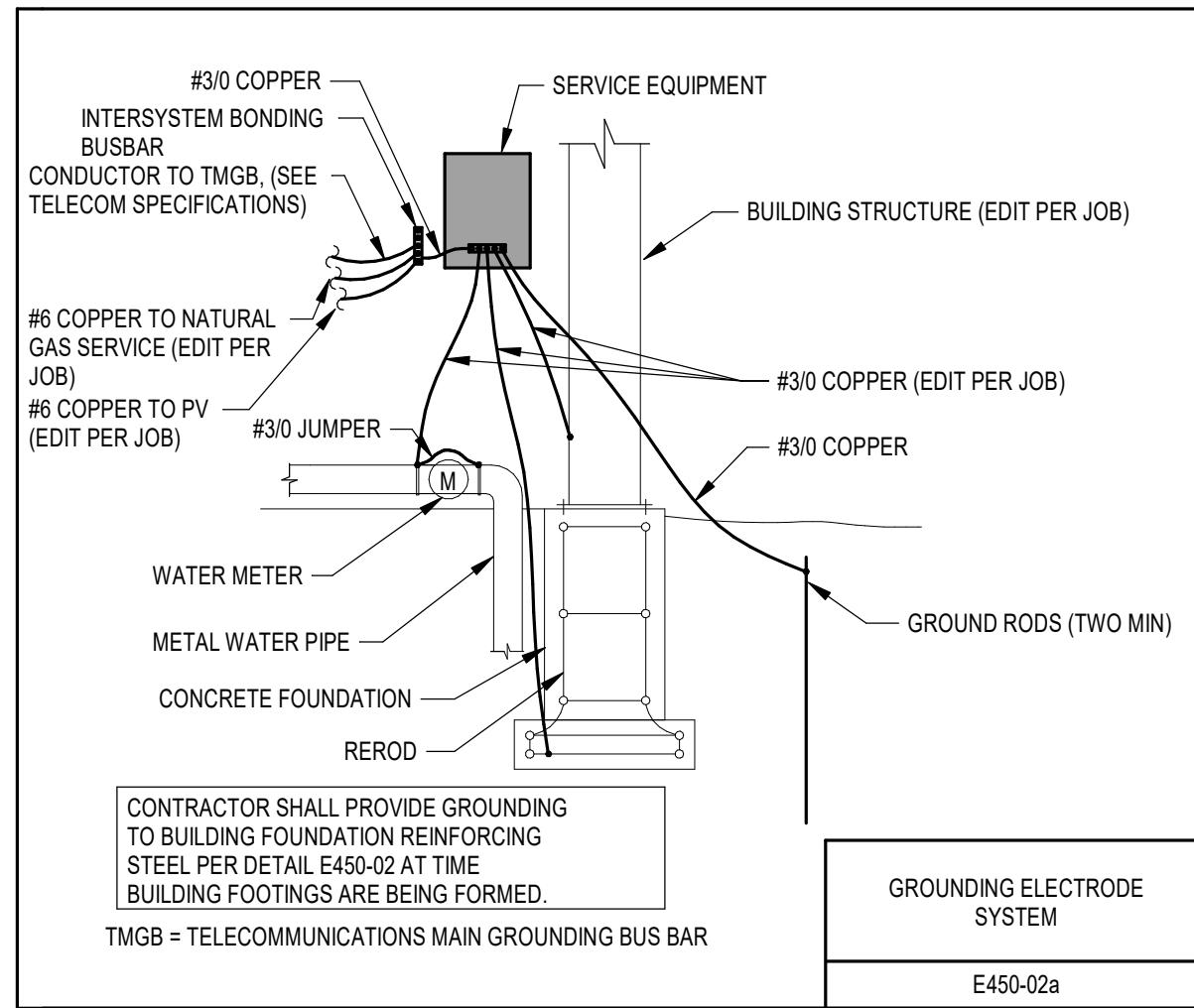
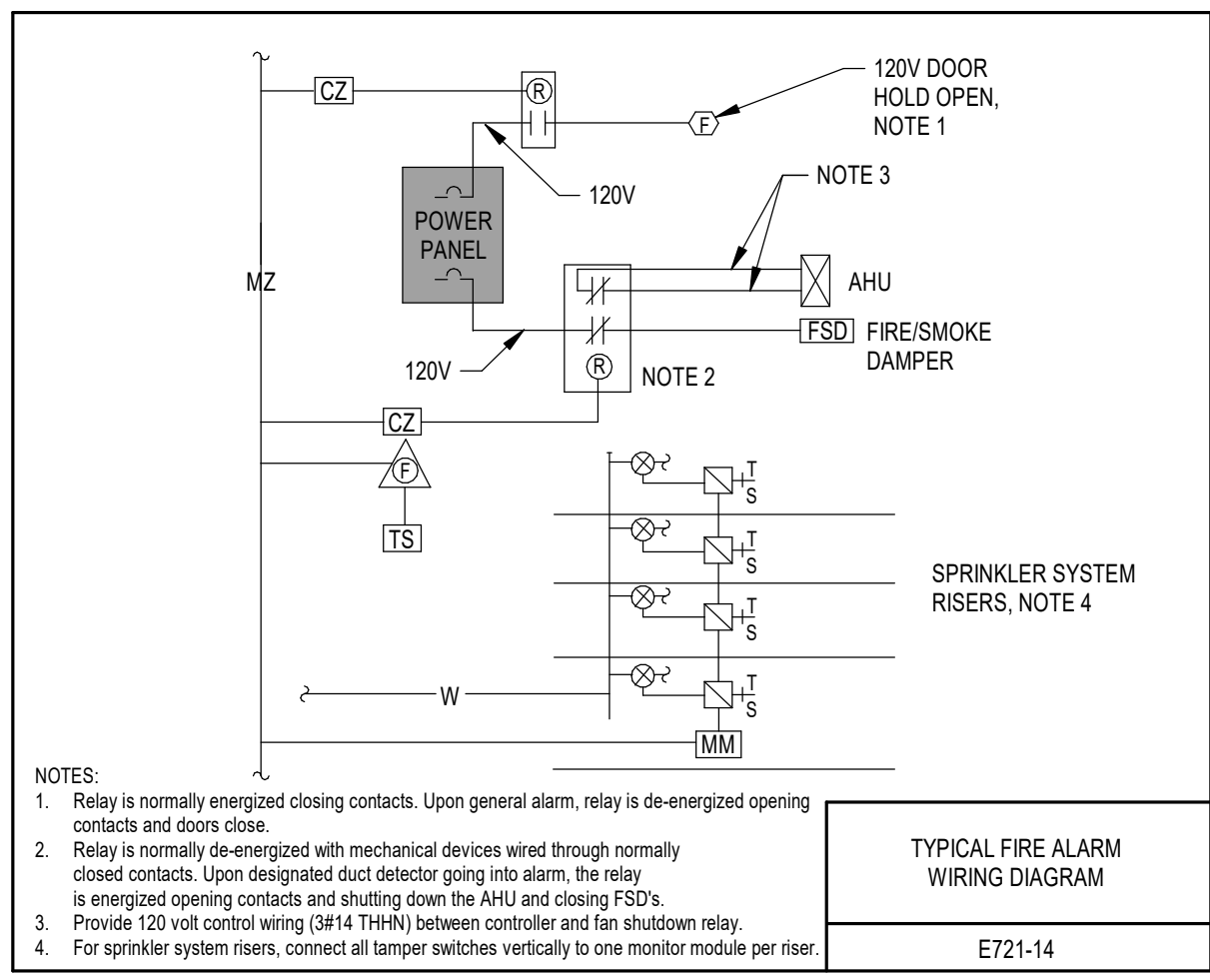
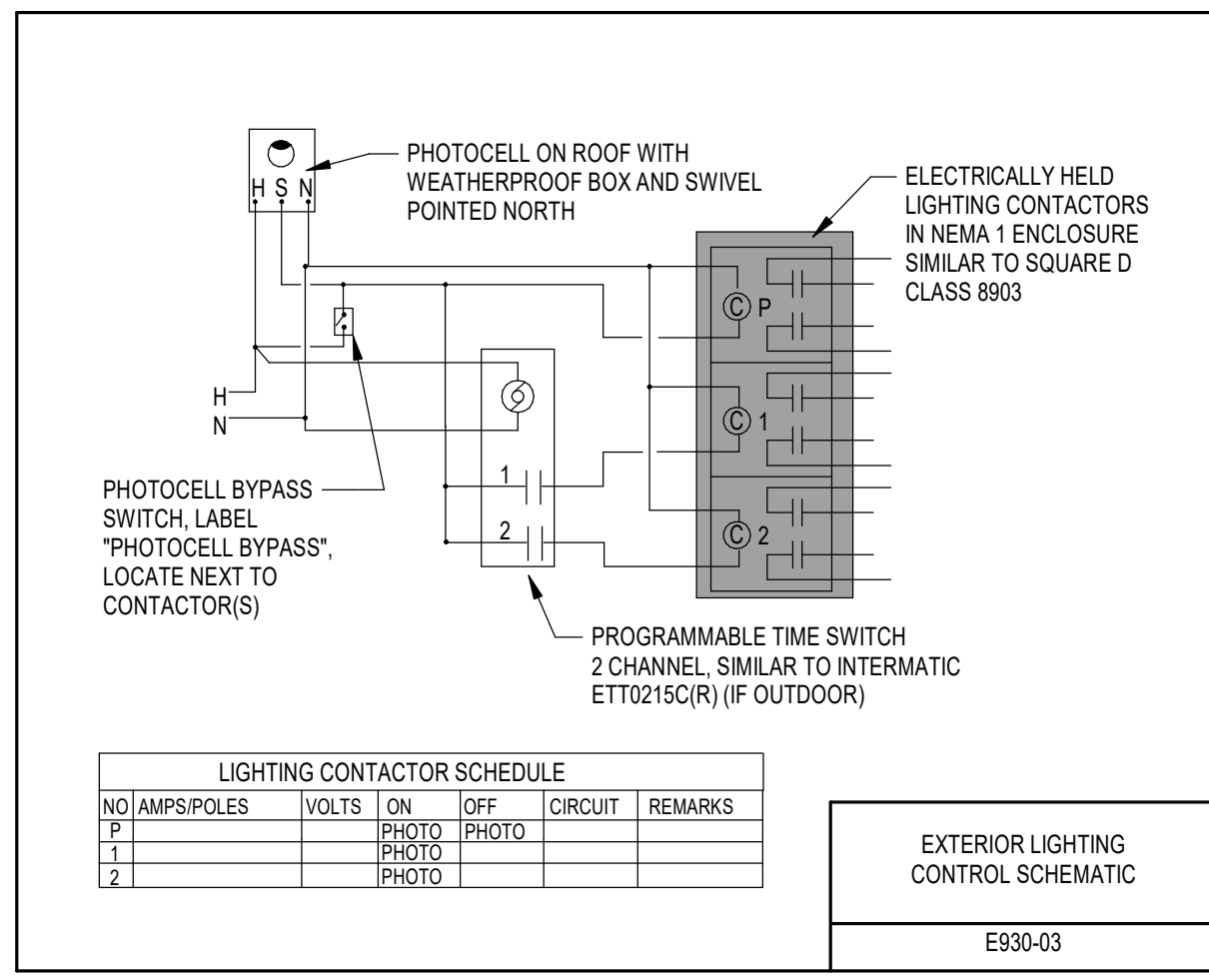
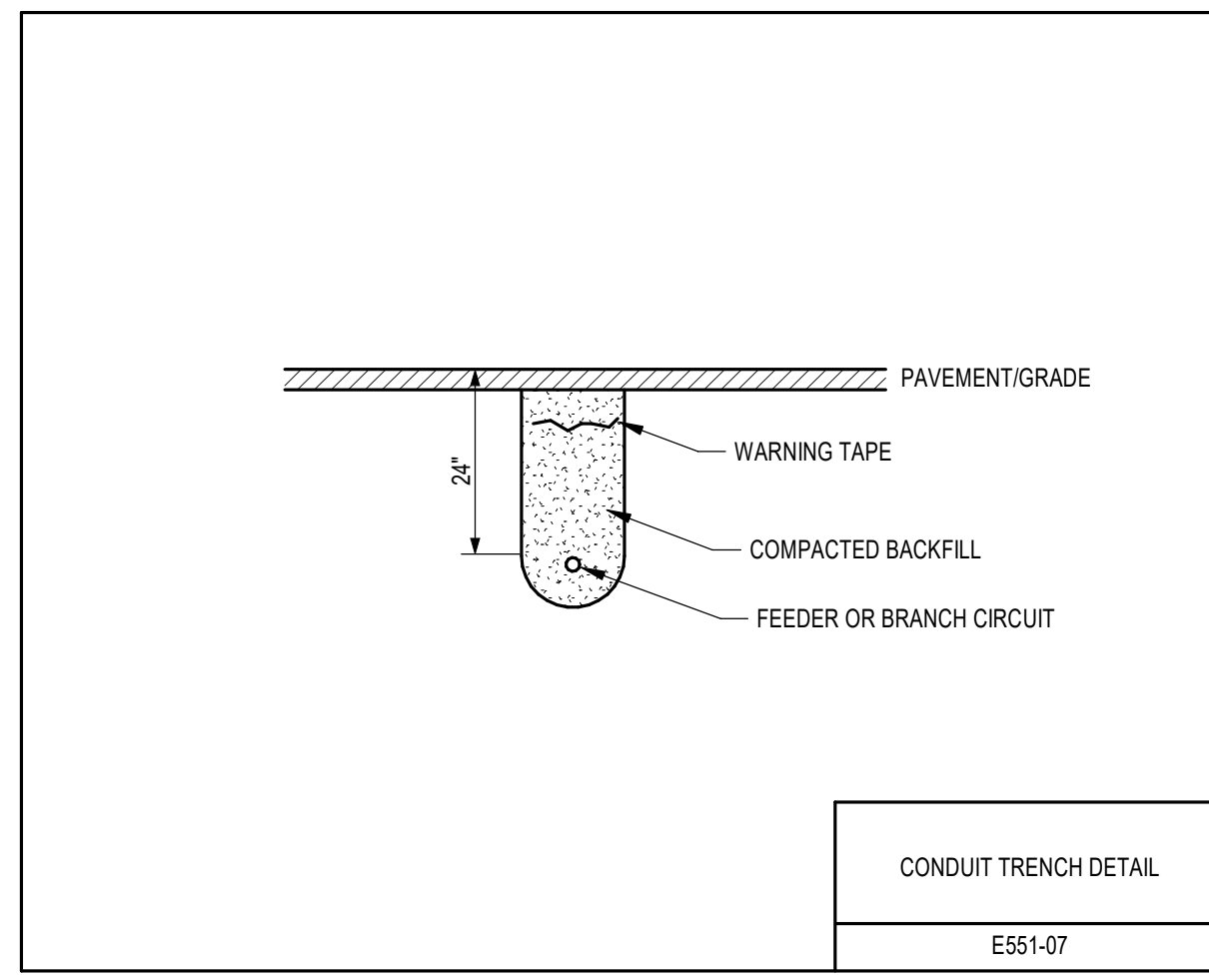
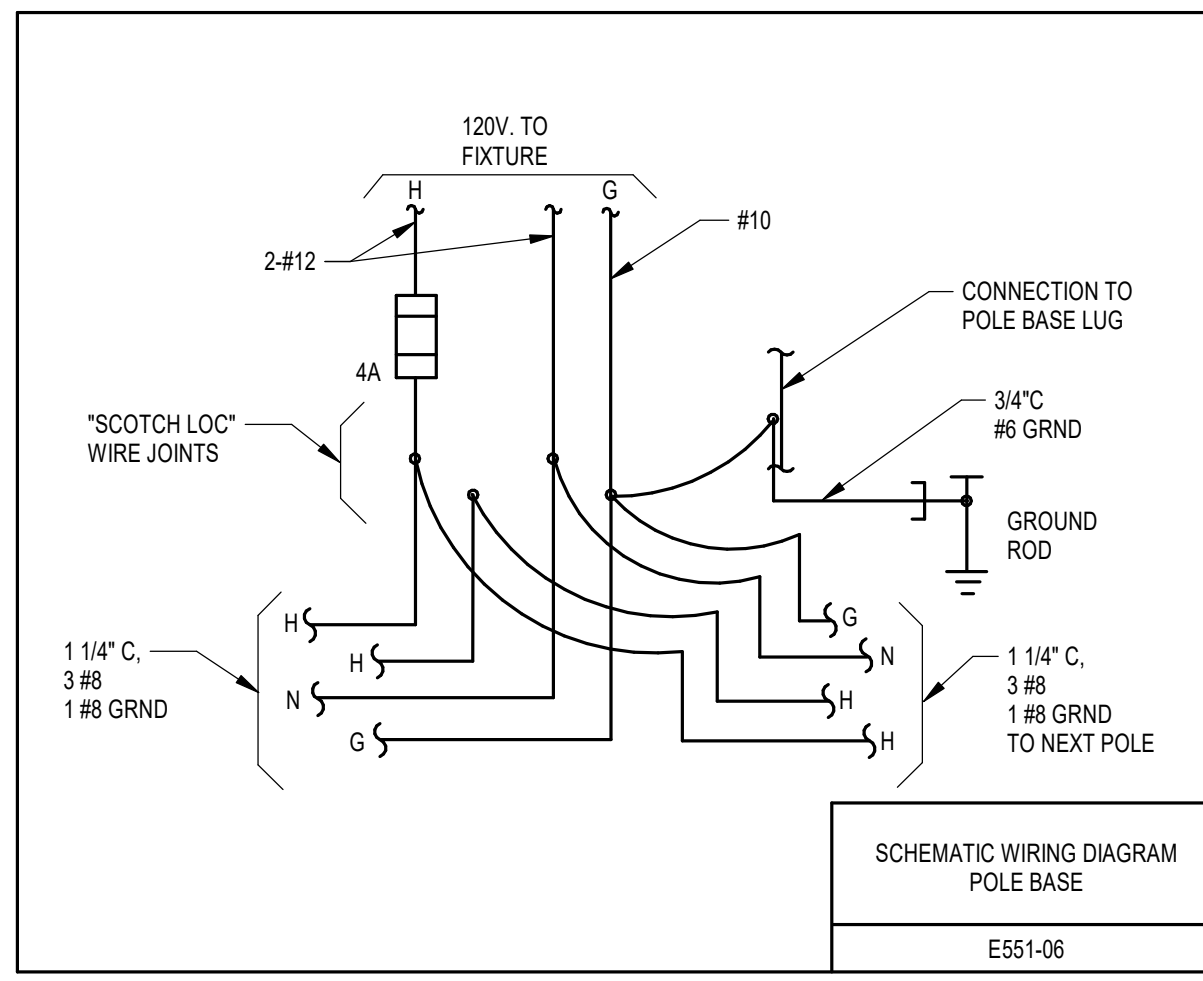
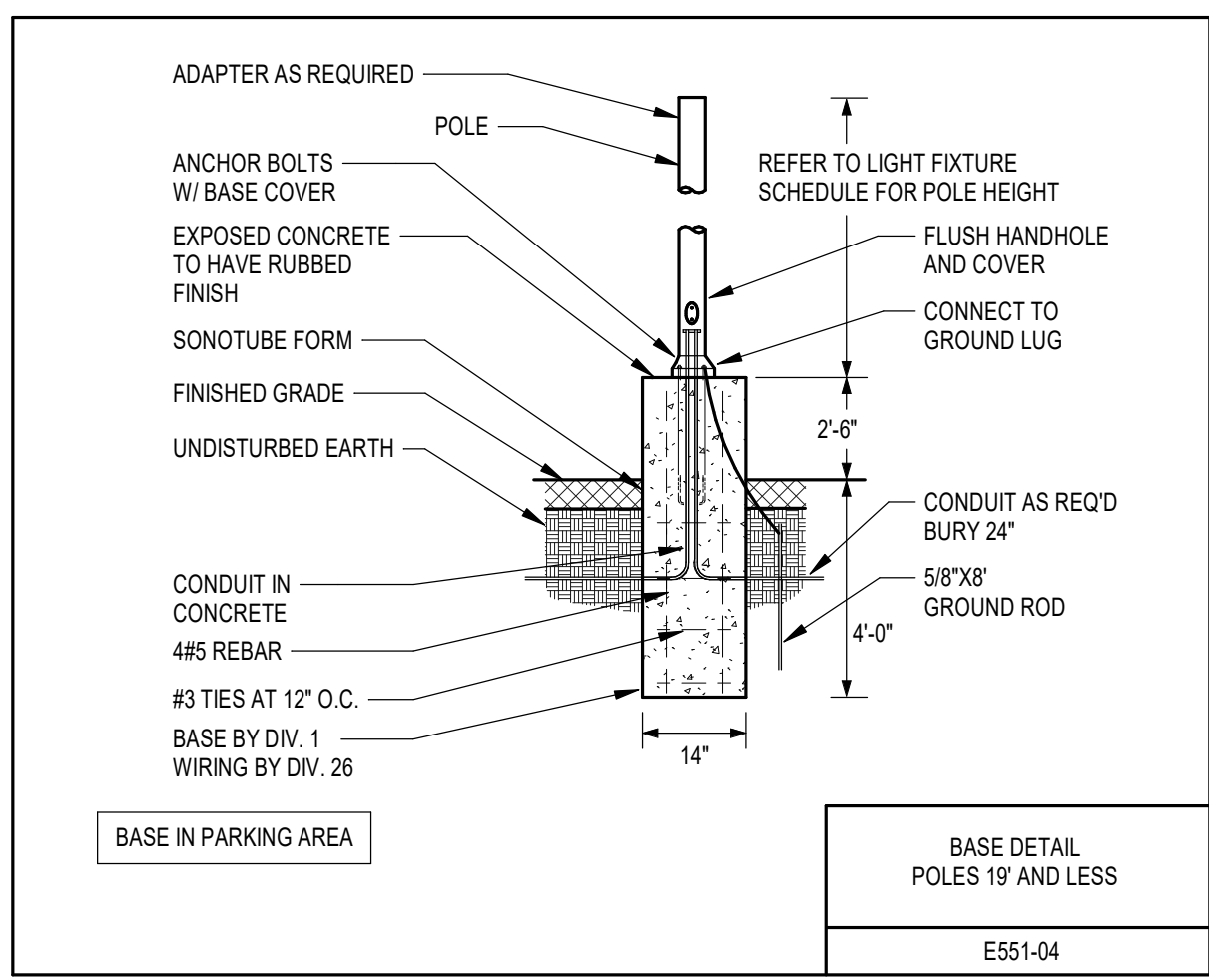
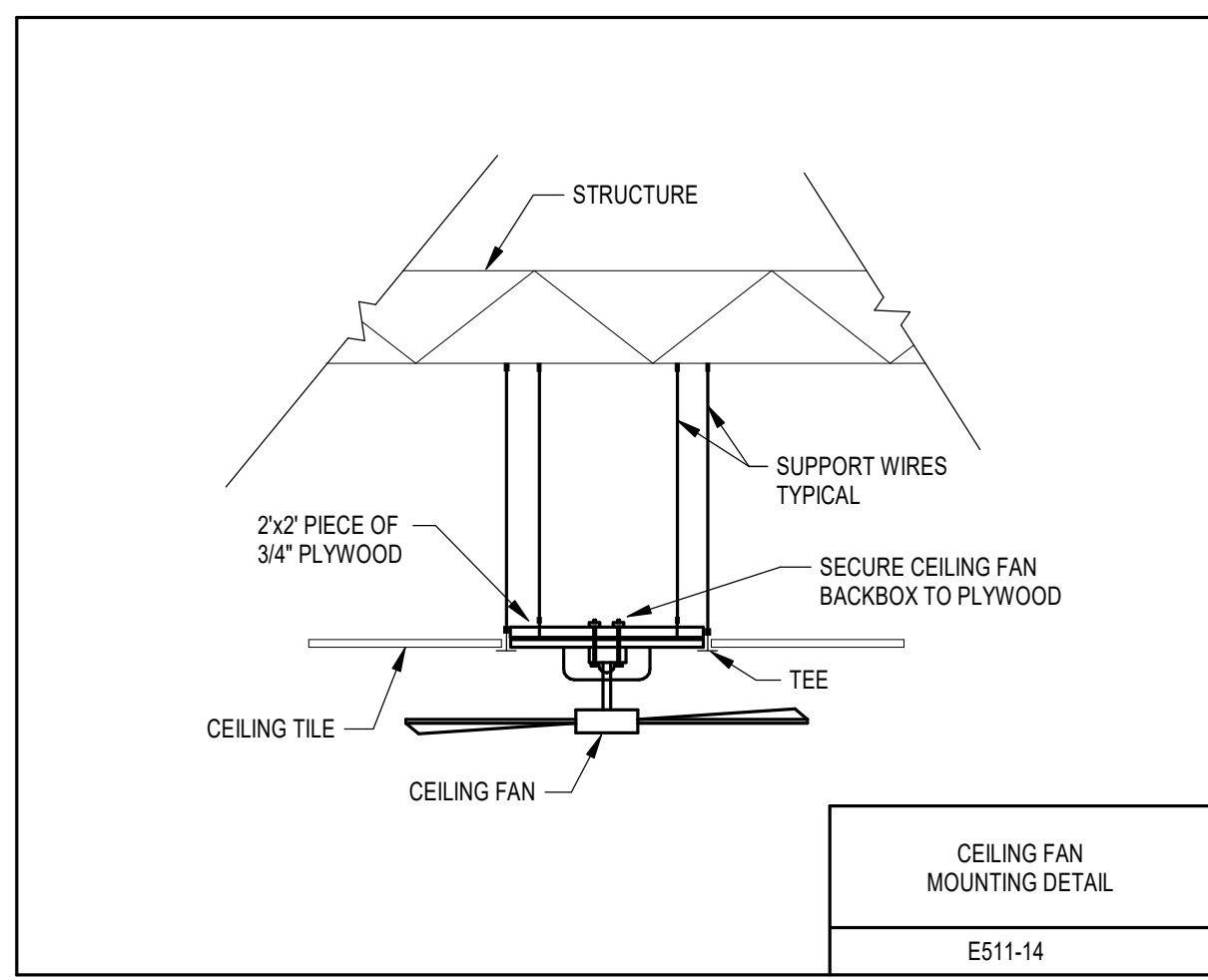
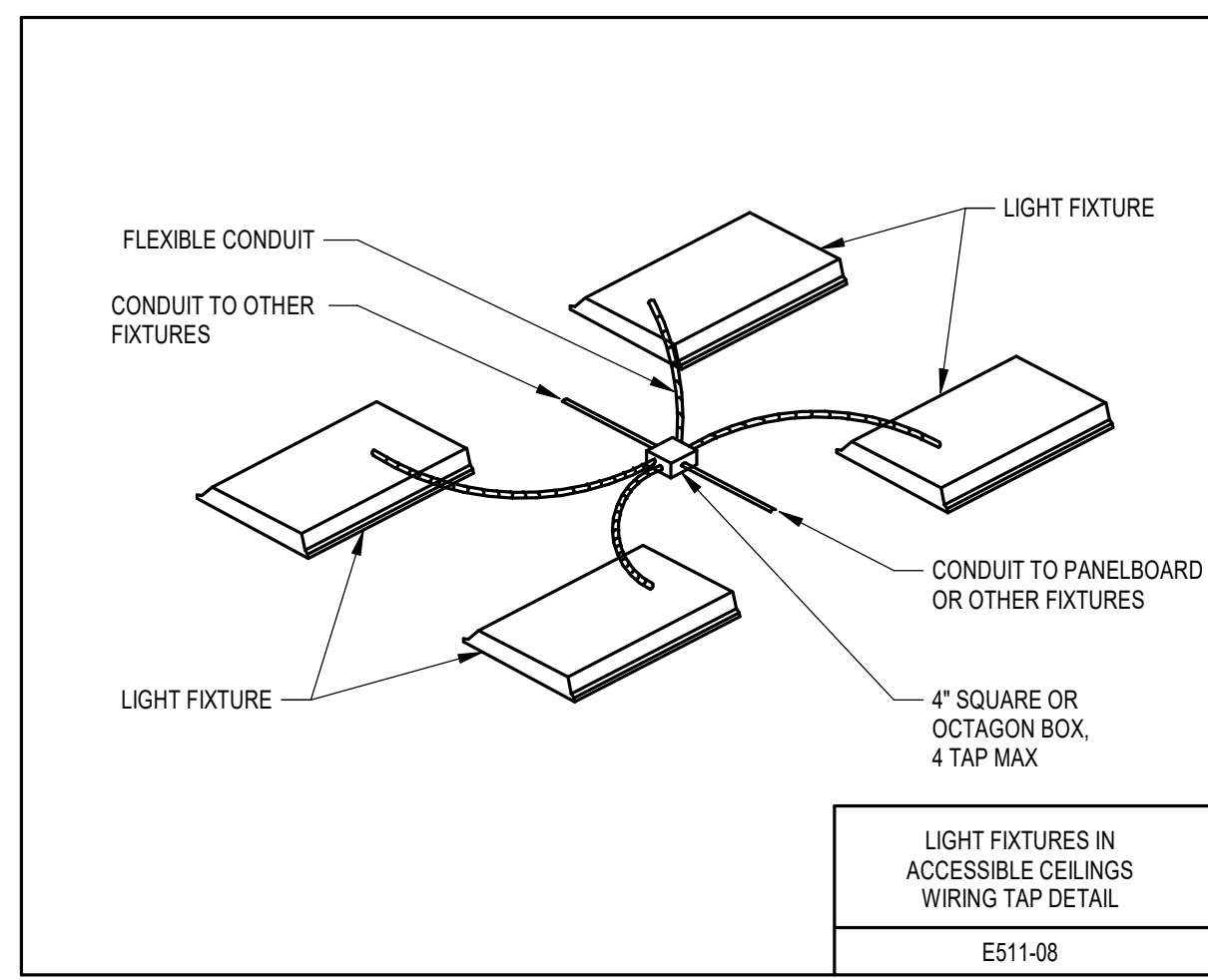
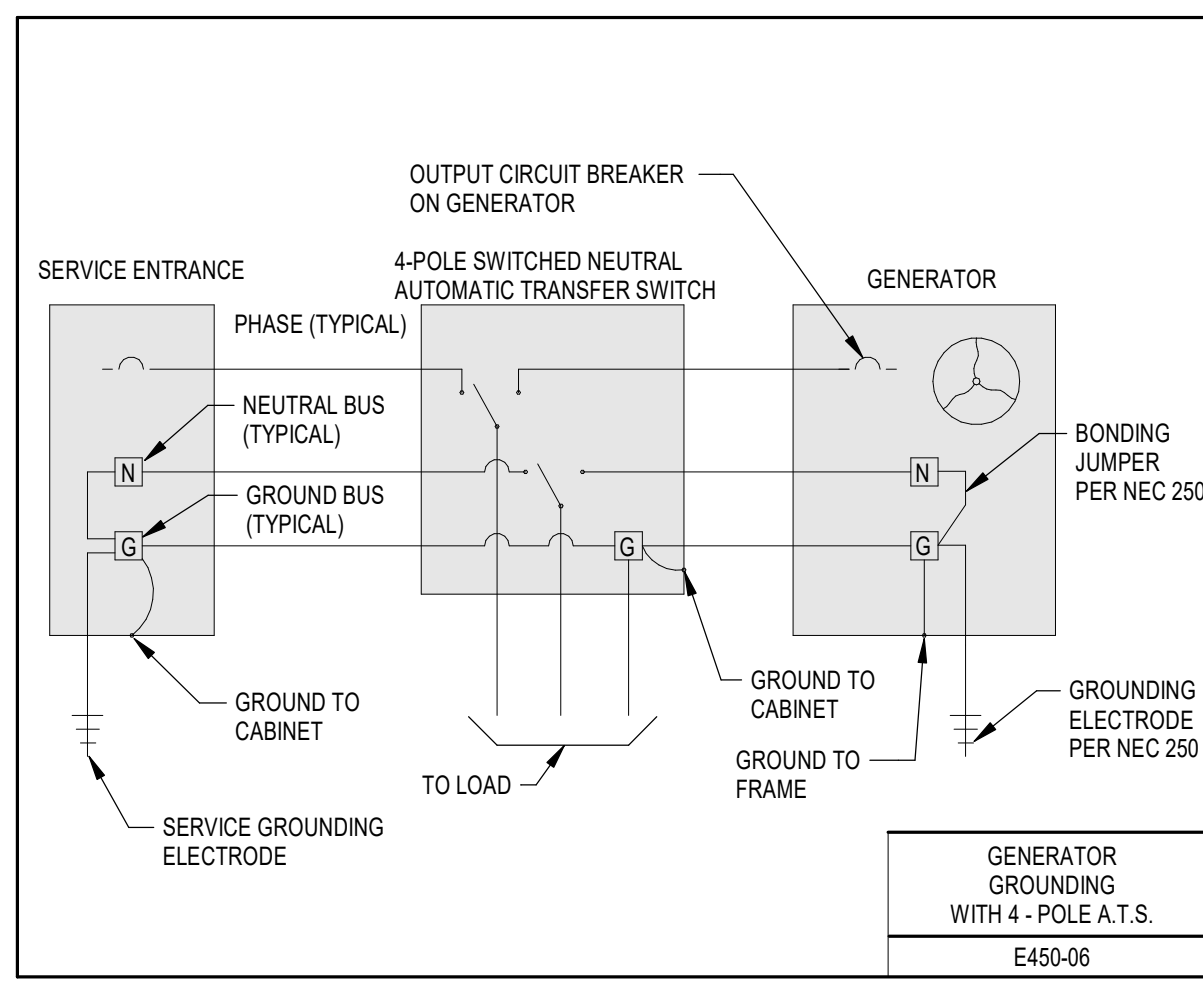
PLAN MARK	DESCRIPTION	MANUFACTURER	FLOOR/WALL TYPE	MODEL NOS.			POWER		LOW VOLTAGE				SCHEMATIC DETAIL	NOTES
				BOX	COVER	FINISH	RECEPT QTY.	CONDUIT	NO. OF OPENINGS	WIRE SIZE (FT)	MOUNTING PLATE (FT)	CONDUIT		
AB-1	Wall Box (3-Gang)	FSR	Gyp/Steel Stud	PWB-100	---	White	1	3/4"	2	1 DATA	NA	(1) 1", (1) 1/4"		1, 2, 3
AB-2	Open Office Poke-Thru (2-gang)	Wiremold	Carpet on Concrete	6ATC2PAA	---	Aluminium	2	3/4"	1	2 DATA	NA	(1) 1"		1, 2, 3

NOTES:
1. General Items
a. Provide all necessary components required for a complete installation.
b. Provide blank cover plates for all un-used openings.
c. Refer to Technology drawings to verify number of cables and data jacks required as well as conduit sizes and quantity.
d. Confirm cover plate types and finishes with architect.
2. Provide NEMA 5-20R receptacle(s).
3. Provide with divider to separate line voltage from low voltage.

LIGHTING CONTROL SEQUENCE OF OPERATION

OPERATION SEQUENCE	SCHEMATIC DETAIL	LIGHT LEVEL SET POINT	TIME DELAY	LIGHTING SEQUENCE			HVAC SEQUENCE	NOTES
				TRIGGER ON	DAY LIGHT CONTROLS	TRIGGER OFF		
1	N/A	-	-	CONSTANT ON	N/A	CONSTANT ON	-	FIXTURE IS WIRED TO UNSWITCHED CIRCUIT, FIXTURE IS ALWAYS ENERGIZED.
2	N/A	-	ADJUSTABLE - SET TO 20 MINUTES	AUTO ON VIA OCCUPANCY SENSOR DETECTION	N/A	AUTO OFF AFTER ADJUSTABLE TIME DELAY	-	AUTO-ON BY OCCUPANCY SENSOR. AUTO-OFF BY OCCUPANCY SENSOR.
3	N/A	-	ADJUSTABLE - SET TO 20 MINUTES	MANUAL ON VIA TIME SWITCH	N/A	AUTO OFF AFTER LISTED TIME DELAY	-	MANUAL ON BY WALL SWITCH, AUTO OFF BY WALL SWITCH.
4	N/A	35FC	ADJUSTABLE - SET TO 20 MINUTES	AUTO ON 50% VIA OCCUPANCY SENSOR DETECTION, MANUAL ON 100% VIA DIMMER SWITCH	DAY LIGHT TRACK DIMMING	MANUAL OR AUTO OFF AFTER LISTED TIME DELAY	-	AUTO-ON 50% BY OCCUPANCY SENSOR, MANUAL 100% ON BY WALL SWITCH, AUTO OFF BY OCCUPANCY SENSOR, DAYLIGHT TRACK DIMMING BY PHOTO SENSOR OR MANUAL OFF BY WALL SWITCH, MANUAL OFF REQUIRES MANUAL ON TO RESUME AUTO-ON OPERATION.
5	N/A	35FC	ADJUSTABLE - SET TO 20 MINUTES	MANUAL ON VIA DIMMER SWITCH	DAY LIGHT TRACK DIMMING	MANUAL OR AUTO OFF AFTER LISTED TIME DELAY	-	MANUAL ON BY WALL SWITCH, AUTO OFF BY OCCUPANCY SENSOR, DAY LIGHT TRACK DIMMING BY PHOTO SENSOR OR MANUAL OFF BY WALL SWITCH.
6	N/A	-	ADJUSTABLE - SET TO 20 MINUTES	MANUAL ON VIA DIMMER SWITCH	N/A	MANUAL OR AUTO OFF AFTER LISTED TIME DELAY	-	MANUAL ON BY WALL SWITCH, AUTO OFF BY OCCUPANCY SENSOR OR MANUAL OFF BY WALL SWITCH.
7	N/A	-	ADJUSTABLE - SET TO 20 MINUTES	AUTO ON 50% VIA OCCUPANCY SENSOR DETECTION, MANUAL ON 100% VIA DIMMER SWITCH	N/A	MANUAL OR AUTO OFF AFTER LISTED TIME DELAY	-	AUTO-ON 50% BY OCCUPANCY SENSOR, MANUAL 100% ON BY WALL SWITCH, AUTO OFF BY OCCUPANCY SENSOR OR MANUAL OFF BY WALL SWITCH, MANUAL OFF REQUIRES MANUAL ON TO RESUME AUTO-ON OPERATION.
8	N/A	-	-	RELAY	ASTRONOMICAL CLOCK CONTROL	RELAY	-	BUILDING FAÇADE LIGHTS ON DUSK TO 12AM & 6AM TO DAWN, BUILDING FAÇADE LIGHTS OFF 12AM-6AM.
9	N/A	-	-	MANUAL ON VIA SWITCH	N/A	MANUAL OFF VIA SWITCH	-	
10	N/A	-	-	INTERNAL RELAY	INTEGRAL LIGHTING CONTROL	INTERNAL RELAY	-	PARKING LOT LIGHTS ON AND DIM DUSK TO DAWN WITH MOTION SENSING OVERRIDE TO FULL BRIGHT.
11	N/A	-	-	RELAY	ASTRONOMICAL CLOCK CONTROL	RELAY	-	BUILDING ENTRANCE/EGRESS LIGHTS ON DUSK TO DAWN.
12	N/A	-	-	INTERNAL RELAY	INTEGRAL LIGHTING CONTROL	INTERNAL RELAY	-	AUTO-ON BY OCCUPANCY SENSOR DUSK TO DAWN OPERATION.

NOTES:



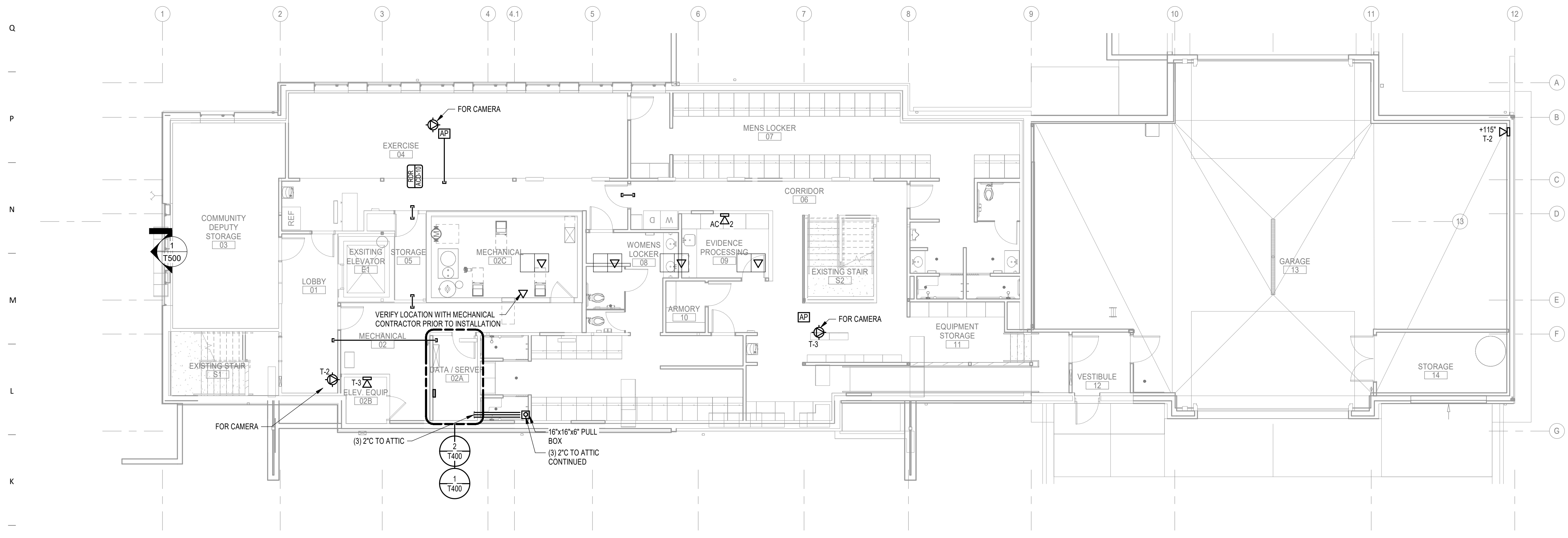
KEYED NOTES	
T-1	J-HOOKS SHALL BE 4" IN SIZE. THE J-HOOK PATHWAY NOTED ON THE MAIN LEVEL OF SHEET T-101 SHALL BE INSTALLED IN THE ATTIC FOR CABLE DISTRIBUTION.
T-2	DIV 26 CONTRACTOR SHALL PROVIDE A CONDUIT PATHWAY TO ATTIC FOR LOW VOLTAGE CABLING.
T-3	DIV 26 CONTRACTOR SHALL PROVIDE A TYPICAL LOW VOLTAGE ROUGH-IN BOX AND CONDUIT BACK TO THE TELECOM ROOM. DO NOT EXCEED MAXIMUM ALLOWABLE BENDS IN CONDUIT PER TABIC/SI STANDARDS.
T-4	CONTRACTOR SHALL INSTALL DATA OUTLET AND (LOOM) WITHIN (NPI) ENCLOSURE AT THE NOTED ELEVATION. SEE WP1 LAYOUT DETAIL FOR FURTHER INSTRUCTIONS.

Project
DANE COUNTY SHERIFF SE PRECINCT REMODEL
 125 VETERANS ROAD
 STOUGHTON, WI 53589

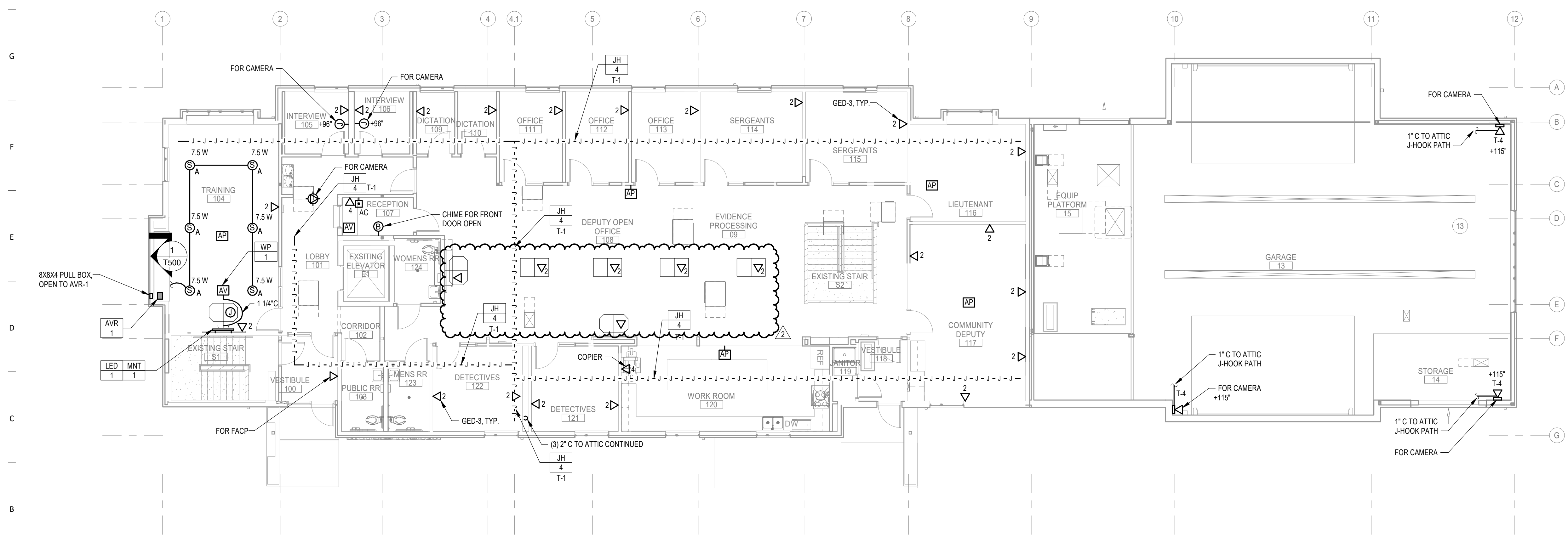
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1 TECHNOLOGY PLAN - LOWER LEVEL
 1/8" = 1'-0"



2 TECHNOLOGY PLAN - MAIN LEVEL
 1/8" = 1'-0"

NEW WORK KEY	
(Solid line)	EXISTING
(Dashed line)	NEW / REVISED
(Light gray fill)	EXISTING EQUIPMENT
(Dark gray fill)	NEW / REVISED EQUIPMENT

Revision	Description	Date
2	ADDENDUM 02	MARCH 9, 2021

OPN Project No.
20628000
 Sheet Issue Date
CONSTRUCTION DRAWINGS February 2, 2021
 Sheet Name
OVERALL TECHNOLOGY PLANS
 Sheet Number