

ADDENDUM #1

Date: December 16, 2019

This Addendum applicable to work designated herein shall be understood to be and is an Addendum and as such shall be part of and included in the Contract.

To all bidders for furnishing all labor and materials necessary for:

**KENWORTH SALES COMPANY, INC.
OGDEN, UTAH, NBW#16066**

Failure to acknowledge receipt of this Addendum on the bid proposal form may result in rejection of your bid.

Addendum consists of: 5 pages. Attached Documents consist of – Specification section 08 4113, Specification section 08 7100, Specification section 31 1000, Sheet LI100, Sheet LI101, Sheet SD1.2, Sheet A1.1, Sheet A1.2, Sheet A1.3, Sheet A2.1, Sheet A4.7, Sheet A4.11, Sheet A4.13, Sheet A5.1, Sheet A5.2, Sheet A5.3, Sheet P1.0, Sheet P1.1, Sheet P1.2, Sheet P3.1

GENERAL ITEMS

1. SWPPP is to be the responsibility of the General Contractor.
2. Per Specification Section 04 2200 Concrete Unit Masonry 2.4 H. and Specification Section 04 2613 Masonry Veneer 2.4 G. - a water-repellent admixture is to be provided.
3. Sealant is to be provided at all masonry control joints. Color to be chosen by Architect.
4. Specification Section 01 2100 - Allowances - There are 4 allowances on this project that are to be included in the bid.
5. All vertically oriented exterior concrete surfaces to receive a rubbed finish per the specifications.
6. Attached is the “Concrete Floor Finishing” sheet for General Contractor’s Reference.
7. 2” of XPS rigid insulation is to be installed on the inside face of all stem walls of the building.
8. Specification Section 01 2300 “Alternates” 3.1 A. to be replaced with the following:

3.1 SCHEDULE OF ALTERNATES

- A. Alternate No. 1: Compressed Air Piping
 1. Base Bid: Project as indicated on the drawings without any compressed air piping.
 2. Alternate: All compressed air piping throughout the building – see Plumbing “P” sheets.

LANDSCAPE ITEMS

1. Sheet LI100 – See attached revised sheet.
2. Sheet LI101 – See attached revised sheet.



ARCHITECTURAL ITEMS

1. Specification Section 08 4113 “Aluminum-Framed Entrances and Storefronts” is to be replaced in its entirety with the attached Specification Section 08 4113 “Aluminum-Framed Entrances and Storefronts (Revised).”
2. Specification Section 08 7100 “Door Hardware” and the “Door Hardware Sets” are to be replaced in their entirety with the attached specification section 08 7100 “Door Hardware & Schedule (Revised).”
3. Specification Section 31 1000 “Site Clearing” is to be replaced in its entirety with the attached specification Section 31 1000 “Site Clearing (Revised).”
4. Specification Section 32 3113 “Chain Link Fences and Gates” – Add the following Section 2.7:

2.7 INDUSTRIAL HORIZONTAL ROLLING GATES

- B. General: Comply with ASTM F 1184 for gate posts and single rolling gate types.
 1. Classification: Type II Rolling Slide, Class 1 with external roller assemblies.
 - a. Gate Leaf Width: 15 feet.
 - b. Gate Fabric Height: 72 inches.
 - C. Pipe and Tubing:
 1. Zinc-Coated Steel: Protective coating and finish to match fence framing.
 2. Gate Posts: Comply with ASTM F 1184. Provide round tubular steel posts.
 3. Gate Frames and Bracing: Round tubular steel.
 - D. Frame Corner Construction: Welded.
 - E. Hardware:
 1. Latches permitting operation from both sides of gate with provision for padlocking accessible from both sides of gate.
 2. Hangers, roller assemblies, and stops fabricated from galvanized steel hinges: 180 degree outward.
5. Specification Section 06 4116 “Plastic-Laminate-Clad Architectural Cabinets” add the following information:

2.10 ALUMINUM PLATE PANELS

- F. Aluminum-Alloy Rolled Diamond Plate: ASTM B 632/B 632M, Alloy 6061-T6
 1. Thickness: 3/16 inch.
6. Specification Section 12 2413 “Roller Window Shades” 2.1 A. to be replaced with the following:

2.1 MANUFACTURERS

- A. Basis-of-Design Product: Subject to compliance with requirements, provide RB 500 by Hunter Douglas or comparable product by one of the following:
 1. Draper Inc.
 2. Hunter Douglas Contract.
7. Sheet SD1.2 – Detail G – The rolling gate dolly is to have a metal core with a solid rubber tread.

8. Sheet SD1.2 – Detail H – Where a bollard is located above a structural footing, it is to be connected to the footing – see structural drawings for connection detail.
9. Sheet A1.1 – Keynote 19 has been added and noted on the drawing.
10. Sheet A1.1 - The keynote for the corner of Closet 128A has been changed to 11.
11. Sheet A1.2 – The depth of the striping per Keynote 19 has been dimensioned.
12. Sheet A1.3 – Keynote 7 has been added and noted on the drawing.
13. Sheet A2.1 Elevation 4 – The elevation for the top of the CMU wall at the Steam Rack has been called out.
14. Sheet A4.7 – Wall Section 2 – 2” of XPS rigid insulation is to be installed on the inside face of all stem walls for the building.
15. Sheet A4.7 – Detail 6 – The pre-cast concrete cap is to have a dark brown integral color. – Color to be chosen by Architect.
16. Sheet A4.11 – All stair landings are to have rubber surface and nosing to match stairs.
17. Sheet A4.11 – Detail 7 - The height of the wall end guard has been changed to 96”.
18. Sheet A4.11 – Details 7 & 8 - A welded angle has been added to act as a stop for the forklift gate on both ends.
19. Sheet A4.11 – Detail 8 – A welded angle has been added to the bottom of the forklift gate.
20. Sheet A4.11 – Detail 9 - The sheet steel under the forklift mezzanine access has been changed to 3/8” thick.
21. Sheet A4.13 – Wall Section 1 - 2” of XPS rigid insulation is to be installed on the inside face of all stem walls for the building.
22. Sheet A4.13 – Wall Section 3 – An elevation has been called out for the top of the CMU wall.
23. Sheet A4.13 – Wall Section 3 - 2” of XPS rigid insulation is to be installed on the inside face of all stem walls for the building.
24. Sheet A5.1 – Keynote 27 has been added and noted in the drawings.
25. Sheet A5.1 – Section 10 – The Service Writer Counter is to have a bullnose on both sides and is to be provided with ½” clear tempered glass.
26. Sheet A5.2 – Elevations N & T – The mirror is to be 36” tall and 36” wide.
27. Sheet A5.3 – Sections 1,2, & 3 – These counters are to have a bullnose on both sides.

MECHANICAL/PLUMBING ITEMS

Changes to the Drawings:

1. See attachment: P1.0, Foundation Plumbing Plan
2. See attachment: P1.1, Plumbing Plan – Part 1
3. See attachment: P3.1, Plumbing Details and Diagrams

Prior Approvals

1. 23 3114 Louvers: Cesco, Pottorff
2. 23 3114 Manual Volume Dampers: Air-Rite, Pottorff
3. 23 3400 Ceiling Exhaust Fans: Broan Commercial
4. 23 3400 Roof Mount Exhaust Fans: Carnes
5. 23 3713 Penthouses: Carnes, Western Vents
6. 23 3713 Registers, Grilles & Diffusers: Carnes
7. 23 3713 Spin-In Fittings: Air-Rite

- 8. 23 5134 Roof Caps: Carnes
- 9. 23 5416 Unit Heaters: Modine

ELECTRICAL ITEMS

Prior Approvals:

1. **Lighting Fixtures-**

The following Lighting Fixtures are Pre-Approved. Contractors bidding these fixtures shall be responsible for all additional components, programming, commissioning and etc to meet the design intent specified in the construction documents. This is to be included in the base bid.

| <u>TYPE</u> | <u>MANUFACTURER</u> |
|-------------|---------------------|
| FE1 | COOPER |
| FE3 | EYE LIGHTING |
| FE4 | COOPER |
| FE5/FE6 | COOPER |
| F1 | SURE-LITES |
| F2 | SURE-LITES |
| F3S/F3SE | LITHONIA |
| F4/F4S | LITHONIA |
| F5 | COOPER |
| F6 | COOPER |
| F7 | COOPER |
| F8 | COOPER |
| F9 | LITHONIA |
| F10 | COOPER |
| F11 | COOPER |
| F12S/F12SE | LITHONIA |
| F13 | NEO-RAY LTG |
| F14 | Q-TRAN |
| F15 | COOPER |

2. **Lighting Controls-**

The following Lighting Controls are Pre-Approved. Contractors bidding these controls shall be responsible for all additional components, programming, commissioning and etc to meet the design intent specified in the construction documents. This is to be included in the base bid.

Wireless Lighting Controls: nLight Air

General Clarifications:

- 1. The following are the only approved manufacturers for the Data Cabling Systems:
 - A. Ortronics
 - B. Leviton

C. Hubbell

Drawings:

1. Refer to revised drawings indicated with Delta 1 for additional Addendum items.

END OF ADDENDUM NO.1

KENWORTH - Ogden, UT

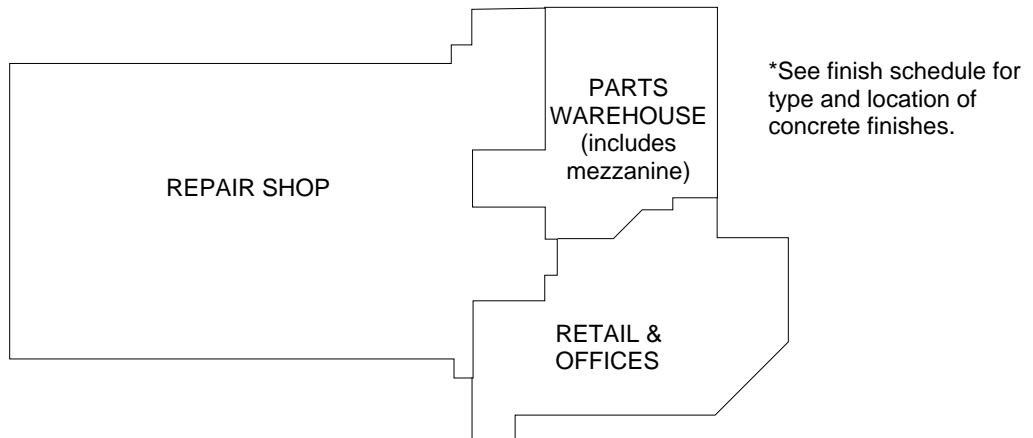
CONCRETE FLOOR FINISHING

The following general instructions for Scope of Work shall be used for concrete slabs. Specifications in the Project Manual shall be used, unless otherwise stated in this document.

All concrete slabs shall be placed and troweled and burnished (per schedule below) and in conjunction with the finish schedule, then saw cut and cleaned by the Contractor.

The Contractor shall coordinate with the Owner's subcontractor, who will evaluate and apply stain guard as required.

Towards the end of the project, the Contractor shall clean all slabs (scrape drywall mud, paint, etc. and sweep) The Owner's subcontractor will then evaluate and perform any additional color dyeing, re-burnishing, densifying, and sealing or stain guard



Concrete Finishing Instructions **Blue** - Performed By: **General Contractor**
Red - Performed BY: **Owner**

| Performed By: | Repair Shop | Parts Warehouse | Retail & Offices |
|--|---------------------------------------|---------------------------------------|--------------------------------------|
| General Contractor | Place Concrete Slab | Place Concrete Slab | Place Concrete Slab |
| General Contractor | Power Trowel Burnish | Power Trowel Burnish | Power Trowel - No Burn |
| General Contractor | Cut Slab & Clean | Cut Slab | Cut Slab |
| Owner's Sub | Stain guard (As Req'd) | Stain guard (As Req'd) | Stain guard (As Req'd) |
| Wait until the near end of the project | | | |
| General Contractor | Scrape & Sweep Slab | Scrape & Sweep Slab | Scrape & Sweep Slab |
| Owner's Sub | Clean, Burnish, Densify & Stain Guard | Clean, Burnish, Densify & Stain Guard | Clean Grind, Stain, Densify & Polish |

SECTION 08 4113 - ALUMINUM-FRAMED ENTRANCES AND STOREFRONTS

PART 1 - GENERAL

1.1 SUMMARY

- A. Section Includes:
 - 1. Storefront framing.
 - 2. Storefront framing for punched openings.
 - 3. Manual-swing entrance doors.

1.2 ACTION SUBMITTALS

- A. Product Data: For each type of product.
- B. Shop Drawings: For aluminum-framed entrances and storefronts. Include plans, elevations, sections, full-size details, and attachments to other work.
- C. Samples: For each type of exposed finish required.
- D. Entrance Door Hardware Schedule: Prepared by or under supervision of supplier, detailing fabrication and assembly of entrance door hardware, as well as procedures and diagrams.

1.3 CLOSEOUT SUBMITTALS

- A. Maintenance data.

1.4 QUALITY ASSURANCE

- A. Installer Qualifications: An entity that employs installers and supervisors who are trained and approved by manufacturer.
- B. Product Options: Information on Drawings and in Specifications establishes requirements for aesthetic effects and performance characteristics of assemblies. Aesthetic effects are indicated by dimensions, arrangements, alignment, and profiles of components and assemblies as they relate to sightlines, to one another, and to adjoining construction.
 - 1. Do not change intended aesthetic effects, as judged solely by Architect, except with Architect's approval. If changes are proposed, submit comprehensive explanatory data to Architect for review.

1.5 WARRANTY

- A. Special Warranty: Manufacturer agrees to repair or replace components of aluminum-framed entrances and storefronts that do not comply with requirements or that fail in materials or workmanship within specified warranty period.
 - 1. Warranty Period: Five years from date of Substantial Completion.
- B. Special Finish Warranty: Standard form in which manufacturer agrees to repair finishes or replace aluminum that shows evidence of deterioration of factory-applied finishes within specified warranty period.
 - 1. Warranty Period: 20 years from date of Substantial Completion.

PART 2 - PRODUCTS

2.1 PERFORMANCE REQUIREMENTS

- A. General Performance: Comply with performance requirements specified, as determined by testing of aluminum-framed entrances and storefronts representing those indicated for this Project without failure due to defective manufacture, fabrication, installation, or other defects in construction.

1. Aluminum-framed entrances and storefronts shall withstand movements of supporting structure, including, but not limited to, twist, column shortening, long-term creep, and deflection from uniformly distributed and concentrated live loads.
 2. Failure also includes the following:
 - a. Thermal stresses transferring to building structure.
 - b. Glass breakage.
 - c. Noise or vibration created by wind and thermal and structural movements.
 - d. Loosening or weakening of fasteners, attachments, and other components.
 - e. Failure of operating units.
- B. Structural Loads:
1. Wind Loads: As indicated on Drawings.
- C. Air Infiltration: Test according to ASTM E 283 for infiltration as follows:
1. Fixed Framing and Glass Area:
 - a. Maximum air leakage of 0.06 cfm/sq. ft. at a static-air-pressure differential of 1.57 lbf/sq. ft..
 2. Entrance Doors:
 - a. Single Doors: Maximum air leakage of 0.5 cfm/sq. ft. at a static-air-pressure differential of 1.57 lbf/sq. ft..
- D. Water Penetration under Static Pressure: Test according to ASTM E 331 as follows:
1. No evidence of water penetration through fixed glazing and framing areas, including entrance doors, when tested according to a minimum static-air-pressure differential of 20 percent of positive wind-load design pressure, but not less than 6.24 lbf/sq. ft..
- E. Energy Performance: Certify and label energy performance according to NFRC as follows:
1. Thermal Transmittance (U-factor): Fixed glazing and framing areas as a system shall have U-factor of not more than 0.41 Btu/sq. ft. x h x deg F as determined according to NFRC 100.
 2. Solar Heat Gain Coefficient (SHGC): Fixed glazing and framing areas as a system shall have SHGC of no greater than 0.40 as determined according to NFRC 200.
 3. Condensation Resistance: Fixed glazing and framing areas as a system shall have an NFRC-certified condensation resistance rating of no less than 45 as determined according to NFRC 500.
- F. Thermal Movements: Allow for thermal movements resulting from ambient and surface temperature changes.
1. Temperature Change: 120 deg F, ambient; 180 deg F, material surfaces.

2.2 STOREFRONT SYSTEMS

- A. Basis-of-Design Product: Subject to compliance with requirements, provide Kawneer North America; an Alcoa company; Trifab VG 451 center glazed or a comparable product by one of the following:
1. Arcadia, Inc.
 2. EFCO Corporation.
 3. Oldcastle BuildingEnvelope™.
 4. Pittco Architectural Metals, Inc.
 5. Tubelite Inc.
- B. Framing Members: Manufacturer's extruded- or formed-aluminum framing members of thickness required and reinforced as required to support imposed loads.
1. Exterior Framing Construction: Thermally broken.
 2. Interior Vestibule Framing Construction: Nonthermal.
 3. Glazing System: Retained mechanically with gaskets on four sides.
 4. Finish: Color anodic finish.
 5. Fabrication Method: Field-fabricated stick system.
 6. Aluminum: Alloy and temper recommended by manufacturer for type of use and finish indicated.
 7. Steel Reinforcement: As required by manufacturer.
- C. Backer Plates: Manufacturer's standard, continuous backer plates for framing members, if not integral, where framing abuts adjacent construction.
- D. Brackets and Reinforcements: Manufacturer's standard high-strength aluminum with nonstaining, nonferrous shims for aligning system components.

2.3 ENTRANCE DOOR SYSTEMS

- A. Basis-of-Design Product: Subject to compliance with requirements, provide Kawneer North America; an Alcoa company; 500 Tuffline or a comparable product by one of the following:
1. Arcadia, Inc.
 2. EFCO Corporation.
 3. Oldcastle BuildingEnvelope™.
 4. Pittco Architectural Metals, Inc.
 5. Tubelite Inc.
- B. Entrance Doors: Manufacturer's standard glazed entrance doors for manual-swing or automatic operation.
1. Door Construction: 2-inch overall thickness, with minimum 0.188-inch-thick, extruded-aluminum tubular rail and stile members. Mechanically fasten corners with reinforcing brackets that are deeply penetrated and fillet welded or that incorporate concealed tie rods.
 - a. Thermal Construction: High-performance plastic connectors separate aluminum members exposed to the exterior from members exposed to the interior.
 2. Door Design: Wide stile; 5-inch nominal width.
 3. Glazing Stops and Gaskets: Square, snap-on, extruded-aluminum stops and preformed gaskets.
 - a. Provide nonremovable glazing stops on outside of door.

2.4 ENTRANCE DOOR HARDWARE

- A. Entrance Door Hardware: Hardware not specified in this Section is specified in Section 08 7100 "Door Hardware."
- B. General: Provide entrance door hardware and entrance door hardware sets indicated in "Entrance Door Hardware Sets" Article for each entrance door, to comply with requirements in this Section.
1. Entrance Door Hardware Sets: Provide quantity, item, size, finish or color indicated, and named manufacturers' products.
 2. Opening-Force Requirements:
 - a. Egress Doors: Not more than 15 lbf to release the latch and not more than 30 lbf to set the door in motion.
 - b. Accessible Interior Doors: Not more than 5 lbf to fully open door.
- C. Designations: Requirements for design, grade, function, finish, quantity, size, and other distinctive qualities of each type of entrance door hardware are indicated in "Entrance Door Hardware Sets" Article. Products are identified by using entrance door hardware designations as follows:
1. Named Manufacturers' Products: Manufacturer and product designation are listed for each door hardware type required for the purpose of establishing minimum requirements. Manufacturers' names are abbreviated in "Entrance Door Hardware Sets" Article.
 2. References to BHMA Standards: Provide products complying with these standards and requirements for description, quality, and function.
- D. Cylinders: As specified in Section 08 7100 "Door Hardware."
- E. Continuous-Gear Hinges: BHMA A156.26.
- F. Mortise Auxiliary Locks: BHMA A156.5, Grade 1.
- G. Cylinders: BHMA A156.5, Grade 1.
1. Keying: Master key system. Permanently inscribe each key with a visual key control number and include notation "DO NOT DUPLICATE".
- H. Strikes: Provide strike with black-plastic dust box for each latch or lock bolt; fabricated for aluminum framing.
- I. Operating Trim: BHMA A156.6.
- J. Removable Mullions: BHMA A156.3 extruded aluminum.
1. When used with panic exit devices, provide removable mullions listed and labeled by a testing and inspecting agency acceptable to authorities having jurisdiction, for panic protection, based on testing according to UL 305. Use only mullions that have been tested with exit devices to be used.

- K. Closers: BHMA A156.4, Grade 1, with accessories required for a complete installation, sized as required by door size, exposure to weather, and anticipated frequency of use; adjustable to comply with field conditions and requirements for opening force.
- L. Door Stops: BHMA A156.16, Grade 1, floor or wall mounted, as appropriate for door location indicated, with integral rubber bumper.
- M. Weather Stripping: Manufacturer's standard replaceable components.
 - 1. Compression Type: Made of ASTM D 2000 molded neoprene or ASTM D 2287 molded PVC.
 - 2. Sliding Type: AAMA 701/702, made of wool, polypropylene, or nylon woven pile with nylon-fabric or aluminum-strip backing.
- N. Weather Sweeps: Manufacturer's standard exterior-door bottom sweep with concealed fasteners on mounting strip.
- O. Thresholds: BHMA A156.21 raised thresholds beveled with a slope of not more than 1:2, with maximum height of 1/2 inch.

2.5 GLAZING

- A. Glazing: Comply with Section 08 8000 "Glazing."
- B. Glazing Gaskets: Manufacturer's standard sealed-corner pressure-glazing system of black, resilient elastomeric glazing gaskets, setting blocks, and shims or spacers.
- C. Glazing Sealants: As recommended by manufacturer.

2.6 MATERIALS

- A. Sheet and Plate: ASTM B 209.
- B. Extruded Bars, Rods, Profiles, and Tubes: ASTM B 221.
- C. Extruded Structural Pipe and Tubes: ASTM B 429/B 429M.
- D. Structural Profiles: ASTM B 308/B 308M.
- E. Steel Reinforcement:
 - 1. Structural Shapes, Plates, and Bars: ASTM A 36/A 36M.
 - 2. Cold-Rolled Sheet and Strip: ASTM A 1008/A 1008M.
 - 3. Hot-Rolled Sheet and Strip: ASTM A 1011/A 1011M.
 - 4. Primer: Manufacturer's standard zinc-rich, corrosion-resistant primer complying with SSPC-PS Guide No. 12.00; applied immediately after surface preparation and pretreatment. Select surface preparation methods according to recommendations in SSPC-SP COM, and prepare surfaces according to applicable SSPC standard.

2.7 FABRICATION

- A. Form or extrude aluminum shapes before finishing.
- B. Weld in concealed locations to greatest extent possible to minimize distortion or discoloration of finish. Remove weld spatter and welding oxides from exposed surfaces by descaling or grinding.
- C. Fabricate components that, when assembled, have the following characteristics:
 - 1. Profiles that are sharp, straight, and free of defects or deformations.
 - 2. Accurately fitted joints with ends coped or mitered.
 - 3. Physical and thermal isolation of glazing from framing members.
 - 4. Accommodations for thermal and mechanical movements of glazing and framing to maintain required glazing edge clearances.
 - 5. Provisions for field replacement of glazing from interior.

- 6. Fasteners, anchors, and connection devices that are concealed from view to greatest extent possible.
- D. Mechanically Glazed Framing Members: Fabricate for flush glazing without projecting stops.
- E. Entrance Door Frames: Reinforce as required to support loads imposed by door operation and for installing entrance door hardware.
- F. Entrance Doors: Reinforce doors as required for installing entrance door hardware.
- G. Entrance Door Hardware Installation: Factory install entrance door hardware to the greatest extent possible. Cut, drill, and tap for factory-installed entrance door hardware before applying finishes.
- H. After fabrication, clearly mark components to identify their locations in Project according to Shop Drawings.

2.8 ALUMINUM FINISHES

- A. Color Anodic Finish: AAMA 611, AA-M12C22A42/A44, Class I, 0.018 mm or thicker.
 - 1. Color: Dark bronze.

PART 3 - EXECUTION

3.1 INSTALLATION

- A. General:
 - 1. Comply with manufacturer's written instructions.
 - 2. Do not install damaged components.
 - 3. Fit joints to produce hairline joints free of burrs and distortion.
 - 4. Rigidly secure nonmovement joints.
 - 5. Install anchors with separators and isolators to prevent metal corrosion and electrolytic deterioration and to prevent impeding movement of moving joints.
 - 6. Seal perimeter and other joints watertight unless otherwise indicated.
- B. Metal Protection:
 - 1. Where aluminum is in contact with dissimilar metals, protect against galvanic action by painting contact surfaces with materials recommended by manufacturer for this purpose or by installing nonconductive spacers.
 - 2. Where aluminum is in contact with concrete or masonry, protect against corrosion by painting contact surfaces with bituminous paint.
- C. Set continuous sill members and flashing in full sealant bed, as specified in Section 07 9200 "Joint Sealants," to produce weathertight installation.
- D. Install components plumb and true in alignment with established lines and grades.
- E. Install operable units level and plumb, securely anchored, and without distortion. Adjust weather-stripping contact and hardware movement to produce proper operation.
- F. Install glazing as specified in Section 08 8000 "Glazing."
- G. Entrance Doors: Install doors to produce smooth operation and tight fit at contact points.
 - 1. Exterior Doors: Install to produce weathertight enclosure and tight fit at weather stripping.
 - 2. Field-Installed Entrance Door Hardware: Install surface-mounted entrance door hardware according to entrance door hardware manufacturers' written instructions using concealed fasteners to greatest extent possible.

3.2 ENTRANCE DOOR HARDWARE SETS

HW SET: A1

DOOR NUMBER: (INCLUDES BUT IS NOT LIMITED TO THE FOLLOWING DOORS)

101

| | | | | | |
|---|-----|----------------------------|--|-------|-----|
| 2 | EA | CONT. HINGE | 112HD | 313AN | IVE |
| 1 | EA | KEYED REMOVABLE MULLION | KR4954-STAB | 695 | VON |
| 1 | EA | PANIC HARDWARE | CD-98-EO | 643E | VON |
| 1 | EA | PANIC HARDWARE | CD-98-NL-OP-110MD | 643E | VON |
| 3 | EA | MORTISE CYL TURN | 09-900 118 36-083 (DOGGING & MULLION) | 643e | SCH |
| 1 | EA | PRIMUS RIM CYLINDER | 20-757-XP | 643e | SCH |
| 2 | EA | 10" OFFSET PULL | BF257 | 710 | ROC |
| 2 | EA | OH STOP | 100S ADJ | 613 | GLY |
| 2 | EA | SURFACE CLOSER | 4040XP EDAW/62G | 695 | LCN |
| 2 | EA | PA MOUNTING PLATE | 4040XP-18PA | 695 | LCN |
| 2 | EA | 5TH SCREW SUPPORT | 4040XP-30 | 695 | LCN |
| 1 | SET | PERIMETER SEALS | DOOR MFG STD | | B/O |
| 1 | EA | THRESHOLD | DOOR MFG STD | | B/O |

HW SET: A2

DOOR NUMBER: (INCLUDES BUT IS NOT LIMITED TO THE FOLLOWING DOORS)

107

| | | | | | |
|---|-----|---------------------|-------------------|-------|-----|
| 1 | EA | CONT. HINGE | 112HD | 313AN | IVE |
| 1 | EA | PANIC HARDWARE | CD-98-NL-OP-110MD | 643E | VON |
| 1 | EA | MORTISE CYL TURN | 09-900 118 36-083 | 643e | SCH |
| 1 | EA | PRIMUS RIM CYLINDER | 20-757-XP | 643e | SCH |
| 1 | EA | 10" OFFSET PULL | BF257 | 710 | ROC |
| 1 | EA | OH STOP | 100S ADJ | 613 | GLY |
| 1 | EA | SURFACE CLOSER | 4040XP EDAW/62G | 695 | LCN |
| 1 | EA | PA MOUNTING PLATE | 4040XP-18PA | 695 | LCN |
| 1 | EA | 5TH SCREW SUPPORT | 4040XP-30 | 695 | LCN |
| 1 | SET | PERIMETER SEALS | DOOR MFG STD | | B/O |
| 1 | EA | THRESHOLD | DOOR MFG STD | | B/O |

HW SET: B1

DOOR NUMBER: (INCLUDES BUT IS NOT LIMITED TO THE FOLLOWING DOORS)

101A

| | | | | | |
|---|-----|-------------------|-----------------|-------|-----|
| 2 | EA | CONT. HINGE | 112HD | 313AN | IVE |
| 1 | EA | DUMMY PUSH BAR | 350 | 710 | VON |
| 2 | EA | 10" OFFSET PULL | BF257 | 710 | ROC |
| 2 | EA | OH STOP | 100S ADJ | 613 | GLY |
| 2 | EA | SURFACE CLOSER | 4040XP EDAW/62G | 695 | LCN |
| 2 | EA | PA MOUNTING PLATE | 4040XP-18PA | 695 | LCN |
| 2 | EA | 5TH SCREW SUPPORT | 4040XP-30 | 695 | LCN |
| 1 | SET | PERIMETER SEALS | DOOR MFG STD | | B/O |

HW SET: B2

DOOR NUMBER: (INCLUDES BUT IS NOT LIMITED TO THE FOLLOWING DOORS)

107A

| | | | | | |
|---|-----|-------------------|-----------------|-------|-----|
| 1 | EA | CONT. HINGE | 112HD | 313AN | IVE |
| 1 | EA | DUMMY PUSH BAR | 350 | 710 | VON |
| 1 | EA | 10" OFFSET PULL | BF257 | 710 | ROC |
| 1 | EA | OH STOP | 100S ADJ | 613 | GLY |
| 1 | EA | SURFACE CLOSER | 4040XP EDAW/62G | 695 | LCN |
| 1 | EA | PA MOUNTING PLATE | 4040XP-18PA | 695 | LCN |
| 1 | EA | 5TH SCREW SUPPORT | 4040XP-30 | 695 | LCN |
| 1 | SET | PERIMETER SEALS | DOOR MFG STD | | B/O |

END OF SECTION 08 4113

SECTION 08 7100 - DOOR HARDWARE

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

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

1.2 SUMMARY

- A. This Section includes the following:
 - 1. Commercial door hardware for the following:
 - a. Swinging doors.
- B. Related Sections include the following:
 - 1. Division 08 Section "Hollow Metal Doors and Frames"
 - 2. Division 08 Section "Flush Doors"
 - 3. Division 08 Section "Aluminum Doors and Frames"
 - 4. Division 08 Section "Overhead Coiling Doors"
 - 5. Division 08 Section "Sectional Door" for door hardware.
- C. Products furnished, but not installed, under this Section include the following. Coordinating, purchasing, delivering, and scheduling remain requirements of this Section.

1.3 REFERENCED STANDARDS

- A. Provide hardware in accordance with the following standards in addition to those specified in Division 01 Section "References".
 - 1. American National Standards Institute (ANSI), A117.1: Accessible and Usable Buildings and Facilities, edition as adopted by local Authority Having Jurisdiction (AHJ).
 - 2. Builders Hardware Manufacturer's Association (BHMA)
 - a. ANSI/BHMA A156.2: Bored and Preassembled Locks and Latches, 2011 edition
 - b. ANSI/BHMA A156.13: Mortise Locks and Latches, 2012 edition
 - c. ANSI/BHMA A156.3: Exit Devices, 2008 edition
 - d. ANSI/BHMA A156.4: Door Controls - Closers, 2008 edition
 - e. ANSI/BHMA A156.18: Materials and Finishes, 2006 edition
 - 3. Door and Hardware Institute (DHI)
 - a. Recommended Locations for Architectural Hardware for Flush Wood Doors, 1993 edition
 - b. Recommended Locations for Architectural Hardware for Standard Steel Doors and Frames, 2004 edition
 - c. Installation Guide for Doors and Hardware, 1994 edition
 - d. Keying Systems and Nomenclature, 2003 edition
 - e. Sequence and Format for the Hardware Schedule, 2001 edition

1.4 SUBMITTALS

- A. Product Data: Include construction and installation details, material descriptions, dimensions of individual components and profiles, and finishes.
- B. Samples for Verification: For exposed door hardware of each type, in specified finish, full size. Tag with full description for coordination with the door hardware sets. Submit Samples before, or concurrent with, submission of the final door hardware sets, if requested.
 - 1. Samples will be returned to Contractor. Units that are acceptable and remain undamaged through submittal, review, and field comparison process may, after final check of operation, be incorporated into the Work, within limitations of keying requirements.
- C. Qualification Data: For Installer

- D. Product Test Reports: Based on evaluation of comprehensive tests performed by manufacturer and witnessed by a qualified testing agency, for locks, latches, and closers as requested.
- E. Maintenance Data: For each type of door hardware to include in maintenance manuals. Include final hardware and keying schedule.
- F. Warranty: Special warranty specified in this Section.
- G. Door Hardware Sets: Prepared by or under the supervision of Architectural Hardware Consultant, detailing fabrication and assembly of door hardware, as well as procedures and diagrams. Coordinate the final door hardware sets with doors, frames, and related work to ensure proper size, thickness, hand, function, and finish of door hardware.
 - 1. Format: Use same scheduling sequence and format and use same door numbers as in the Contract Documents.
 - 2. Content: Include the following information:
 - a. Identification number, location, hand, fire rating, and material of each door and frame.
 - b. Type, style, function, size, quantity, and finish of each door hardware item.
 - c. Complete designations of every item required for each door or opening including name and manufacturer.
 - d. Fastenings and other pertinent information.
 - e. Location of each door hardware set, cross-referenced to Drawings, both on floor plans and in door and frame schedule.
 - f. Explanation of abbreviations, symbols, and codes contained in schedule.
 - g. Mounting locations for door hardware.
 - h. Door and frame sizes and materials.
 - i. List of related door devices specified in other Sections for each door and frame.
 - 3. Submittal Sequence: Submit the final door hardware sets at earliest possible date, particularly where approval of the door hardware sets must precede fabrication of other work that is critical in 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 sets.

1.5 QUALITY ASSURANCE

- A. Installer Qualifications: An employer of workers trained and approved by lock manufacturer.
 - 1. Installer's responsibilities include supplying and installing door hardware and providing a qualified Architectural Hardware Consultant available during the course of the Work to consult with Contractor, Architect, and Owner about door hardware and keying.
 - 2. Installer shall have warehousing facilities in Project's vicinity.
 - 3. Scheduling Responsibility: Preparation of door hardware and keying schedules.
- B. Architectural Hardware Consultant Qualifications: A person who is currently certified by DHI as an Architectural Hardware Consultant and who is experienced in providing consulting services for door hardware installations that are comparable in material, design, and extent to that indicated for this Project.
- C. Source Limitations: Obtain each type and variety of door hardware from a single manufacturer, unless otherwise indicated.

1.6 DELIVERY, STORAGE, AND HANDLING

- A. Inventory door hardware on receipt and provide secure lock-up for door hardware delivered to Project site.
- B. Tag each item or package separately with identification related to the final door hardware sets, and include basic installation instructions, templates, and necessary fasteners with each item or package.
- C. Deliver keys to Owner's Representative by registered mail or overnight package service.

1.7 COORDINATION

- A. Coordinate layout and installation of recessed hardware with floor construction. Cast anchoring inserts into concrete. Concrete, reinforcement, and formwork requirements are specified in Division 03.

- B. Templates: Distribute door hardware templates for doors, frames, and other work specified to be factory prepared for installing door hardware. Check Shop Drawings of other work to confirm that adequate provisions are made for locating and installing door hardware to comply with indicated requirements.

1.8 WARRANTY

- A. Special Warranty: Manufacturer's standard form in which manufacturer agrees to repair or replace components of door hardware that fail in materials or workmanship within specified warranty period.
 - 1. Failures include, but are not limited to, the following:
 - a. Structural failures including excessive deflection, cracking, or breakage.
 - b. Deterioration of metals, metal finishes, and other materials beyond normal weathering and use.
 - 2. Warranty Period: Three (3) years from date of Substantial Completion, except as follows:
 - a. Grade 1 Cylindrical Locks: Ten (10) years from date of Substantial Completion.
 - b. Grade 1 Mortise Locks: Seven (7) years from date of Substantial Completion.
 - c. Manual Closers: Thirty (30) years from date of Substantial Completion.

1.9 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.
- B. Maintenance Service: Beginning at Substantial Completion, provide six (6) months' full maintenance by skilled employees of door hardware Installer. Include quarterly preventive maintenance, repair or replacement of worn or defective components, lubrication, cleaning, and adjusting as required for proper door hardware operation. Provide parts and supplies same as those used in the manufacture and installation of original products.

PART 2 - PRODUCTS

2.1 MANUFACTURERS

- A. Manufacturers: Subject to compliance with requirements, provide products by one of the following:
 - 1. Hinges: Ives
 - 2. Locks and Latches: Schlage, Owner's Standard
 - 3. Cylinders and Cores: Schlage Primus/Everest ,Owner's Standard
 - 4. Mechanical Door Closers: LCN, Owner's Standard
 - 5. Exit Devices: Von Durpin, Owner's Standard
 - 6. Accessories and Trim: Ives
 - 7. Saddle and Panic Thresholds: Zero
 - 8. Weather Strip and Gasket: Zero
 - 9. Miscellaneous Hardware: Ives

2.2 SCHEDULED HARDWARE

- A. Requirements for design, grade, function, finish, size, and other distinctive qualities of each type of finish hardware are indicated in the "Hardware Schedule" at the end of this Section. Products are identified by using hardware designation numbers of the following:
 - 1. Manufacturer's Product Designations: The product designation and name of one manufacturer are listed for each hardware type required for the purpose of establishing minimum requirements. Provide either the product designated or, where more than one manufacturer is specified under the Article "Manufacturers" in Part 2 for each hardware type, the comparable product of one of the other manufacturers that complies with requirements.

2.3 MATERIALS AND FABRICATION

- A. General
 - 1. Manufacturer's Name Plate: Do not use manufacturers' products that have manufacturer's name or trade name displayed in a visible location (omit removable nameplates) except in conjunction with required fire-rated labels and as otherwise acceptable to Architect.
 - a. Manufacturer's identification will be permitted on rim of lock cylinders only.

2. Base Metals: Produce hardware units of basic metal and forming method indicated using manufacturer's standard metal alloy, composition, temper, and hardness, but in no case of lesser (commercially recognized) quality than specified for applicable hardware units for finish designations indicated.
3. Provide hardware manufactured to conform to published templates generally prepared for machine screw installation. Do not provide hardware that has been prepared for self-tapping sheet metal screws, except as specifically indicated.

B. Fasteners

1. Furnish screws for installation with each hardware item. Provide Phillips flat-head screws except as otherwise indicated. Furnish stainless steel (exposed under any condition) screws to match hardware finish or, if exposed in surfaces of other work, to match finish of this other work as closely as possible including "prepared for paint" surfaces to receive painted finish.
2. Provide concealed fasteners for hardware units that are exposed when door is closed except to the extent no standard units of type specified are available with concealed fasteners. Use through bolts only as indicated in this section unless their use is the only means of reinforcing the work adequately to fasten the hardware securely. Where thru-bolts are used as a means of reinforcing the work, provide sleeves for each thru-bolt or use sex screw fasteners.

2.4 HINGES

A. Acceptable Products:

1. Ives: 5BB1 5BB1HW

B. Requirements:

1. Quantity: Provide the following, unless otherwise indicated:
 - a. Two Hinges: For doors with heights up to 60 inches.
 - b. Three Hinges: For doors with heights 61 to 90 inches.
2. Template Requirements: Except for hinges and pivots to be installed entirely (both leaves) into wood doors and frames, provide only template-produced units.
3. Hinge Weight: As indicated in hardware sets.
4. Hinge Base Metal: Unless otherwise indicated, provide the following:
 - a. Exterior Hinges: Stainless steel with stainless-steel pin.
 - b. Interior Hinges: Steel with steel pin.
 - c. Hinges for Fire-Rated Assemblies: Steel with steel pin.
5. Hinge Options: Where indicated in door hardware sets or on Drawings:
 - a. Safety Stud: Designed for stud in one leaf to engage hole in opposing leaf.
 - b. 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 out-swinging doors.
 - c. Corners: Square.
6. Fasteners: Comply with the following:
 - a. Machine Screws: For metal doors and frames. Install into drilled and tapped holes.
 - b. Wood Screws: For wood doors and frames.
 - c. Threaded-to-the-Head Wood Screws: For fire-rated wood doors.

2.5 CONTINUOUS HINGES

A. Acceptable Products:

1. Ives: 112HD 224HD

B. Requirements:

1. Geared Continuous Hinges: Shall utilize a single gear section for the door leaf and a separate gear section for the frame side of the door. Provide full mortise or surface applied hinge as scheduled in each set. Geared hinges are to be UL 10C tested and approved for 90 minutes.

2.6 OPERATING DOOR TRIM

A. Push Plates, Pull Plates, and Pulls

1. Acceptable Products:
 - a. Ives: 8200 8305
2. Requirements:

- a. Push Plate: Provide 6 inch by 16 inch by .050 inch push plate constructed of stainless steel. Bevel all four edges.
- b. Pull Plate: Provide 4 inch by 16 inch by .050 inch push plate constructed of stainless steel, bevel all four edges. Provide 10 inch center to center (CTC) pull constructed of stainless steel with a diameter of 1 inch.

2.7 LOCKS AND LATCHES

A. General:

- 1. Lock Chassis: Shall be made from steel, with locking spindles of stainless steel.
- 2. Latch Bolt: Shall be constructed of stainless steel with 3/4 inch throw on mortise locks and 1/2 inch throw otherwise. Latch to be deadlocking on keyed functions.
- 3. Lever Trim: Shall be pressure cast brass, bronze, zinc, or steel with wrought rose design. Levers are to be solid with no voids or plastic inserts.
- 4. Fire Rating: Lock shall be listed for up to 3 hours.
- 5. Strike Plates: Provide ANSI 4-7/8 inch strike plates. At pairs of doors, provide strike with 7/8 inch flat lip. At single doors, provide round-lipped strike with lip length as required to minimally clear jamb and trim. Provide dust box at each strike location.

B. Mortise Locks

- 1. Acceptable Products:
 - a. Schlage: L Series, 06B Trim Design
- 2. Requirements:
 - a. ANSI Grade: BHMA/ANSI A156.13, Series 1000, Grade 1.
 - b. Deadbolt: Shall be constructed of stainless steel and include security roller pins. Shall have a minimum 1 inch throw.
 - c. Spring Cages: Lock shall have individual external spring cages for each lever.
 - d. Lever Spindles: Provide lockset with independent, breakaway type lever spindles. Spindles that are continuous through the lock case are not acceptable.
 - e. Hub Blocking: Provide lockset with a hub blocking plate to resist unauthorized entry.
 - f. Vandal Resistant Lever: Where scheduled, provide lockset with lever that freely rotates even when locked to resist vandalism and abuse.
 - g. Thumbturns: Provide thumbturns as enlarged, ADA designated style thumbturns.
 - h. Visual Indicator: Where scheduled, provide visual indicator showing "Vacant" or "Occupied".

C. Grade 1 Bored Locks

- 1. Acceptable Products:
 - a. Schlage: ND Series, Rhodes Lever
 - b. Match existing facility standard
- 2. Provide cylindrical locks exceeding the ANSI/BHMA A156.2 Grade 1 performance standards for strength, security & durability in the categories below:
 - a. Abusive locked lever torque – minimum 3,100 inch-pounds without gaining access
 - b. Offset lever pull - minimum 1,600 foot pounds without gaining access Simulates pry-bar attacks
 - c. Vertical lever impact - minimum 100 impacts without gaining access Simulates sledgehammer-blows to trim, very aggressive abuse
 - d. Cycle life - minimum 16 million cycles Cycle life speaks to robustness of lock, ensuring operation after 10M cycles (BHMA requirement is 1M).
 - 1) With no visible lever sag Working after 15M cycles is not the same as working well. No droop and wobble means the lock still works like new after the test.
 - 2) Without the use of performance aids (i.e. set screws, spacers, etc.) Set screws and spacers are a poor fix for droop and wobble. Both add to installation complexity, and set screws can be tamper targets.
 - e. Door Prep: Provide lockset to install using a standard ANSI 161 door preparation.
 - f. Anti-Rotation Plate: Provide lockset with a mechanically interlocked anti-rotation plate. Anti-Rotation teeth or "bite tabs" are not acceptable. Locks without any rotation prevention devices are not acceptable.
 - g. Lever Return Springs: Provide each lever with two compression type return springs that are easily accessible without dismantling the lock chassis. Locks utilizing tension or torsion lever return springs are unacceptable. Locks with internal springs that require dismantling the lock chassis are unacceptable.

- h. Lever Spindles: Provide lock with either milled or 1-piece deep drawn spindles. 2-piece interlocking stamped spindles are not acceptable.
- i. Multi-Functionality: Provide modular lockset with capability to convert to a new lock function by changing key cams.
- j. Vandal Resistant Lever: Where scheduled, provide lockset with lever that freely rotates even when locked to resist vandalism and abuse.

2.8 CYLINDERS AND CORES

- A. Acceptable Products:
 - 1. Schlage: Everest/Primus
- B. Requirements:
 - 1. Full Size Interchangeable Cylinders: Provide cylinders of quantity and type and with the appropriate cam/tailpiece to be compatible with the locking hardware provided. Provide cylinder housings ready to accept 6-pin, Full-Size Interchangeable Cores (FSIC).
 - a. Temporary Construction Keying: Provide each cylinder housing and/or lock lever with keyed construction core during the construction period. Cores will remain property of the contractor and will be returned upon installation of owner’s permanent key system.
 - b. Permanent Cores: Provide 1 bitted cores that are utility patented until at least 2029. Ship cores directly to owner’s representative. At substantial completion, accompany the owner’s representative while replacing temporary construction cores with the owner’s permanent key system.
 - 2. Keys: Provide cylinder manufacturer’s standard keys. Keys shall be shipped separate from cores directly to owner’s representative. For estimating purposes, provide keys in the following quantities:
 - a. Construction Control Keys: 2 each
 - b. Construction Change Keys: 12 each
 - c. Permanent Control Keys: 2 each
 - d. Split Key Voiding Keys: 2 each
 - e. Permanent Master Keys: 2 each
 - f. Permanent Change Keys: 4 per core

2.9 MECHANICAL DOOR CLOSERS

- A. General:
 - 1. Valves: Closers shall have separate valves for latch speed, main speed, and back check. Valves shall be staked to prevent accidental removal. Provide the appropriate closer body, handing, and brackets to mount closer inside the building on the least-public side of the door.
 - a. Where closers are to be mounted parallel arm, provide with heavy duty, fully forged arms.
 - b. Where closers are to be mounted regular arm and the opening can otherwise be opened to 180 degrees, provide closer with the appropriate special templating to allow 180 degree door swing. Where a special template is not available for 180 degree swing, provide closer arm with integrated stop.
 - 2. Integrated Stop Closer Arms: Where a closer with integrated stop is required, provide the appropriate closer and arm as follows:
 - a. Parallel arm with spring-cushioned stop arm: Provide where door is otherwise able to open to 95 degrees and requires a parallel arm mount closer.
 - b. Parallel arm with dead stop arm: Provide where door is obstructed from opening to 95 degrees and requires a parallel arm mount closer.
 - c. Regular arm with push side surface-mounted overhead stop: Provide where door closer should mount on pull side of door.
 - 3. Hold Open Arms: Provide closer arms with mechanical hold-opens as scheduled.
 - 4. Provide closers with any special templates, brackets, plates, or other accessories required for interface with header, door, wall, and other hardware. Provide closers with screw packs containing thru-bolts, machine screws, and wood screws.
 - 5. Closers shall be provided with all-weather fluid and shall not require readjustment from 120 degrees F to -30 degrees F. Fluid shall be non-flaming and shall not fuel door or floor covering fires. Upon request, provide data indicating thermal properties of fluid.
 - 6. Closers shall close and latch door when adjusted to meet accessibility requirements for door opening force: 8.5 lbs at exterior doors, 5 lbs at interior doors, and 15 lbs at labeled fire doors.
- B. Heavy Duty Door Closers:

1. Acceptable Products:
 - a. LCN: 4040XP 4011/4111
2. Requirements:
 - a. ANSI Grade: BHMA/ANSI A156.4, Grade 1.
 - b. Closer Construction: Closer shall have cast iron or aluminum alloy body with 1-1/2 inch steel piston, double heat treated pinion, 5/8 inch bearing journals, and full complement needle or caged ball bearings. Closer shall be adjustable from sizes 1 through 6.
 - c. Provide closers with spring size adjustment dial for ease of adjusting.

2.10 EXIT DEVICES

- A. Acceptable Products:
 1. Von Duprin: 98 Series
- B. Requirements:
 1. ANSI Grade: BHMA/ANSI A156.3, Grade 1.
 2. Device Construction:
 - a. Exit device(s) shall have a mechanism case constructed of extruded aluminum or wrought stainless steel, base plates constructed of cold rolled or cast steel, push pad of extruded aluminum with stainless steel covering or wrought stainless steel, and end caps with flush mounted, sloped design. At full-glass doors, provide exit devices with no exposed fasteners or rivets visible through glass. Where required by stile width, provide narrow-stile type device.
 - b. Latchbolt: Provide Pullman-type deadlocking latch bolts constructed of stainless steel. Where specified provide high security Pullman-type latchbolt that collapses to be square faced under high pull forces. Latch return springs shall be compression type. Tension and Torsion latch return springs are not acceptable.
 - c. Dogging Mechanism: where dogging or latch-retraction options are not specifically scheduled for non-fire rated doors, provide device with a hex-key activated hook-type dogging mechanism constructed of steel.
 - d. Plastic or nylon used for the push pad, or parts in the dogging mechanism or latchbolt mechanism are unacceptable.
 - e. Sound Dampening: Device shall be provided with factory-installed sound dampening materials.
 - f. Provide device type, function, and trim style as indicated in hardware schedules.
 3. Where exit device(s) are provided for fire rated door, provide with fire listing and label indicating "Fire Exit Hardware". If device is mounted on wood doors, provide sex nuts and bolts.
 4. Provide shim kits, filler plates, and other accessories as required for each opening.
 5. Unless otherwise indicated in the sets, provide device with roller-type strike.
 6. Where scheduled, provide removable mullions by same manufacturer as provided exit devices. Provide mullion stabilizers, key removable option, strike preps, and fire rating as indicated in sets.

2.11 ARCHITECTURAL DOOR TRIM

- A. Protection Plates and Edge Guards
 1. Acceptable Products:
 - a. Ives: 8400 Series
 2. Requirements:
 - a. Provide .050 inch thick stainless steel protection plates with height as scheduled. Plate shall have four beveled edges and countersunk screws. Provide plate with width as follows:
 - 1) Pairs of Doors: Provide plate to be 1 inch less door width.
 - 2) Single Doors: Provide plate to be 2 inches less door width on push side, pull side mounted plates to be 1 inch less door width.
- B. Door Stops and Holders
 1. Acceptable Products:
 - a. Ives: WS406/407
 2. Requirements:
 - a. Provide stops and holders as indicated in the hardware sets.
 - b. Where wall bumpers are scheduled, provide concave rubber bumper where the adjacent lever trim incorporates a push-button. Otherwise, provide convex rubber bumpers.

2.12 OVERHEAD STOPS AND HOLDERS

- A. Acceptable Products:
 - 1. Glynn Johnson: 100 Series
- B. Requirements:
 - 1. Provide overhead stops and holders as scheduled, sized per manufacturer's recommendations based on door width.
 - 2. Provide concealed overhead stops with adjustable jamb bracket.
 - 3. Where possible without conflicting with other hardware, mount surface overhead stops on least public side of door.
 - 4. Provide stops with any special templates, brackets, plates, or other accessories required for interface with header, door, wall, and other hardware.

2.13 SADDLE AND PANIC THRESHOLDS

- A. Acceptable Products:
 - 1. Zero International: 655A
- B. Requirements:
 - 1. Saddle thresholds: Provide with length equal to the width of the opening.
 - 2. Panic thresholds: Provide with length equal to the overall frame width. Provide with mitered and welded ends.
 - 3. Provide stainless steel machine screws and lead anchors for each threshold.

2.14 WEATHERSTRIP AND GASKET

- A. General:
 - 1. Provide weather strip and gasketing as scheduled.
 - 2. Size weather strip and gasket to provide a continuous seal around opening and at meeting stiles.
- B. Perimeter Seals
 - 1. Acceptable Products:
 - a. Zero: 429A
- C. Door Bottoms
 - 1. Acceptable Products:
 - a. Zero: 8198AA

2.15 MISCELLANEOUS HARDWARE

- A. Silencers
 - 1. Acceptable Products:
 - a. Ives: SR64
 - 2. Requirements:
 - a. Where indicated on single openings, provide 3 each rubber silencers on lock jamb.
 - b. Where indicated on paired openings, provide 2 each rubber silencers on header.

2.16 HIGH SECURITY EMERGENCY KEY BOX

- A. Acceptable Products:
 - 1. Knox, Inc. 3200 Series x RMK
- B. Requirements:
 - 1. Provide recess-mounted emergency key box as approved by the local fire jurisdiction. Key box to be master-keyed as dictated by local fire jurisdiction.

2.17 KEY CONTROL CABINET

- A. Acceptable Products:
 - 1. Lund, Inc. 1200 Series

- B. Requirements:
 - 1. 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.
 - 2. Provide complete cross-index system set up by Owner, and place keys on markers and hooks in the cabinet as determined by the final key schedule.
 - 3. Provide hinged-panel type cabinet for wall mounting with capacity for 250 unique keys.

2.18 FINISHES

- A. Match items to the manufacturer's standard color and texture finish for the latch and locksets (or push-pull units if no latch or locksets).
- 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. The designations used in schedules and elsewhere to indicate hardware finishes are those listed in ANSI/BHMA A156.18, "Materials and Finishes," including coordination with the traditional U.S. finishes shown by certain manufacturers for their products.
- D. The designations used in schedules and elsewhere to indicate hardware finishes are the industry-recognized standard commercial finishes, except as otherwise noted.
 - 1. Brushed Chrome and/or Stainless Steel Appearance
 - a. Brushed Stainless Steel, no coating: ANSI 630.
 - b. Satin Chrome, Clear Coated: ANSI 626, ANSI 652.
 - c. Powder Coated Aluminum finish: ANSI 689.
 - d. Saddle and Panic Thresholds: Mill Aluminum finish.
 - e. Weatherstrip and Gasket: Clear Anodized Aluminum finish.
 - 2. Oil-Rubbed Bronze or Dark Bronze Appearance
 - a. Oil-Rubbed Satin Bronze: ANSI 613.
 - b. Dark Bronze on Steel: ANSI 643.
 - c. Dark Bronze Colored Powder Coat: ANSI 695.
 - d. Dark Bronze Anodized Aluminum: ANSI 313
 - e. Saddle and Panic Thresholds: Dark Bronze Anodized Aluminum
 - f. Weatherstrip and Gasket: Dark Bronze Anodized Aluminum

PART 3 - EXECUTION

3.1 EXAMINATION

- A. Examine doors and frames, 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. Examine roughing-in for electrical power systems to verify actual locations of wiring connections before electrified door hardware installation.
- C. Proceed with installation only after unsatisfactory conditions have been corrected.

3.2 PREPARATION

- A. Steel Doors and Frames: Comply with DHI A115 Series.
 - 1. Surface-Applied Door Hardware: Drill and tap doors and frames according to ANSI A250.6.
- B. Wood Doors: Comply with DHI A115-W Series.

3.3 INSTALLATION

- A. Pre-installation conference shall be conducted prior to installation of hardware at Project site. Meet with the, Owner, Contractor, installer, and manufacturer's representatives. A separate pre-installation conference shall be conducted prior to the installation of electronic security hardware with the electrical contractor Review catalogs, brochures,

templates, installation instructions, and the approved hardware schedule. Survey installation procedures and workmanship, with special emphasis on unusual conditions, as to ensure correct technique of installation, and coordination with other work. Notify participants at least ten, 10 working days before conference.

- B. Hardware Installers must have a minimum of five (5) years' experience in installation of hardware. Provide verification of installer's qualification to Consultant for approval. All installers to attend review meetings with the hardware distributor.
- C. Install hardware using only manufacturer supplied and approved fasteners in strict adherence with manufacturers published installation instructions.
- D. Install head seal prior to installation of "PA"-parallel arm mounted door closers and push side mounted door stops/holders. Trim, cut and notch thresholds and saddles neatly to minimally fit the profile of the door frame. Install thresholds and saddles in a bed of caulking completely sealing the underside from water and air penetration.
- E. Counter sink through bolt of door pull under push plate during installation.
- F. Mounting Heights: Mount door hardware units at heights indicated, as follows, unless otherwise 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. Custom Steel Doors and Frames: DHI's "Recommended Locations for Builders' Hardware for Custom Steel Doors and Frames."
 - 3. Wood Doors: DHI WDHS.3, "Recommended Locations for Architectural Hardware for Wood Flush Doors."
- G. Install each door hardware item to comply with manufacturer's written instructions. Where cutting and fitting are required to install door hardware onto or into surfaces that are later to be painted or finished in another way, coordinate removal, storage, and reinstallation of surface protective trim units with finishing work specified in Division 09 Sections. Do not install surface-mounted items until finishes have been completed on substrates involved.
 - 1. Set units level, plumb, and true to line and location. Adjust and reinforce attachment substrates as necessary for proper installation and operation.
 - 2. Drill and countersink units that are not factory prepared for anchorage fasteners. Space fasteners and anchors according to industry standards.
- H. Thresholds: Set thresholds for exterior and acoustical doors in full bed of sealant complying with requirements specified in Division 07 Section "Joint Sealants."

3.4 FIELD QUALITY CONTROL

- A. Architectural Hardware Consultant: Architect shall engage a qualified Architectural Hardware Consultant to perform inspections and to prepare inspection reports.
- B. Architectural Hardware Consultant shall inspect door hardware and state in each report whether installed work complies with or deviates from requirements, including whether door hardware is properly installed and adjusted.

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.
 - 1. Door Closers: Unless otherwise required by authorities having jurisdiction, adjust sweep period so that, from an open position of 70 degrees, the door will take at least 3 seconds to move to a point 3 inches (75 mm) from the latch, measured to the leading edge of the door.
- B. Occupancy Adjustment: Approximately six months after date of Substantial Completion, Installer's Architectural Hardware Consultant shall examine and readjust, including adjusting operating forces, each item of door hardware as necessary to ensure function of doors, door hardware, and electrified door hardware.

3.6 CLEANING AND PROTECTION

- A. Clean adjacent surfaces soiled by door hardware installation.
- B. Clean operating items as necessary to restore proper function and finish.
- C. Provide final protection and maintain conditions that ensure that door hardware is without damage or deterioration at time of Substantial Completion.

3.7 DEMONSTRATION

- A. Engage a factory-authorized service representative to train Owner's maintenance personnel to adjust, operate, and maintain door hardware and door hardware finishes. Refer to Division 01 Section "Demonstration and Training."

3.8 DOOR HARDWARE SETS

- A. The following schedule of hardware sets shall be considered a guide and the supplier is cautioned to refer to general conditions, special conditions, and the full requirements of this section. It shall be the hardware supplier's responsibility to furnish all required hardware.
- B. Where items of hardware are not definitely or correctly specified and are required for completion of the Work, a written statement of such omission, error, conflict, or other discrepancy shall be sent to the Architect, prior to date specified for receipt of bids, for clarification by addendum.
- C. Adjustments to the Contract Sum will not be allowed for omissions or items of hardware not clarified prior to bid opening.

HW SET: 01

DOOR NUMBER: (INCLUDES BUT IS NOT LIMITED TO THE FOLLOWING DOORS)

| | | | | | |
|------|----------|------|-------------|------|------|
| 122 | 128A | 128B | 129B | 129C | 129D |
| 129E | 129G | 129H | 129J | 129K | 131A |
| 131B | 131C | 131D | 131J | 131K | 131L |
| 131M | | | | | |
| | HARDWARE | | BY DOOR MFG | | B/O |

HW SET: 02

DOOR NUMBER: (INCLUDES BUT IS NOT LIMITED TO THE FOLLOWING DOORS)

| | | | | | |
|------|----|-------------------------------------|---|-----|---------|
| 106A | | | | | |
| 1 | EA | PRIMUS PERMANENT CORE | 20-740-XP | 626 | SCH |
| | EA | CYLINDER HOUSING REMAINING HARDWARE | AS REQ'D BY DOOR MFG BY DOOR MFG/SUPPLIER | 626 | SCH B/O |

HW SET: 03**DOOR NUMBER: (INCLUDES BUT IS NOT LIMITED TO THE FOLLOWING DOORS)**

| | 128D | 129A | 129F | 129L | 131E | 131H |
|---|------|-----------------------|------|---------------------|------|---------|
| | 201 | | | | | |
| 1 | EA | CONT. HINGE | | 224HD | | 628 IVE |
| 1 | EA | ENTRANCE W/DEADBOLT | | L9453T 06A L583-363 | | 626 SCH |
| 1 | EA | PRIMUS PERMANENT CORE | | 20-740-XP | | 626 SCH |
| 1 | EA | SURFACE CLOSER | | 4111 AVB SCUSH MC | | 689 LCN |
| 1 | EA | RAIN DRIP | | 142AA | | AA ZER |
| 1 | EA | GASKETING | | 429AA-S | | AA ZER |
| 1 | EA | DOOR SWEEP | | 8198AA | | AA ZER |
| 1 | EA | THRESHOLD | | 655A-223 | | A ZER |

HW SET: 04**DOOR NUMBER: (INCLUDES BUT IS NOT LIMITED TO THE FOLLOWING DOORS)**

| | 131G | | | | | |
|---|------|-----------------------|--|------------------------|--|---------|
| 1 | EA | CONT. HINGE | | 224HD | | 628 IVE |
| 1 | EA | ENTRANCE W/DEADBOLT | | L9453T 06A L583-363 | | 626 SCH |
| 1 | EA | PRIMUS PERMANENT CORE | | 20-740-XP | | 626 SCH |
| 1 | EA | SURFACE CLOSER | | 4111 SHCUSH MC TBWMS | | 689 LCN |
| 1 | EA | KICK PLATE | | 8400 10" X 2" LDW B-CS | | 630 IVE |
| 1 | EA | WALL STOP | | WS406/407CCV | | 630 IVE |
| 1 | EA | GASKETING | | 429AA-S | | AA ZER |
| 1 | EA | DOOR SWEEP | | 39A | | A ZER |
| 1 | EA | THRESHOLD | | 655A-223 | | A ZER |

HW SET: 05**DOOR NUMBER: (INCLUDES BUT IS NOT LIMITED TO THE FOLLOWING DOORS)**

| | 120 | 130 | | | | |
|---|-----|----------------|--|------------------------|--|---------|
| 1 | EA | CONT. HINGE | | 224HD | | 628 IVE |
| 1 | EA | ENTRANCE LOCK | | ND53RD RHO | | 626 SCH |
| 1 | EA | SURFACE CLOSER | | 4111 HEDA | | 689 LCN |
| 1 | EA | KICK PLATE | | 8400 10" X 2" LDW B-CS | | 630 IVE |
| 1 | EA | WALL STOP | | WS406/407CCV | | 630 IVE |
| 1 | EA | GASKETING | | 429AA-S | | AA ZER |
| 1 | EA | DOOR SWEEP | | 39A | | A ZER |

HW SET: 06**DOOR NUMBER: (INCLUDES BUT IS NOT LIMITED TO THE FOLLOWING DOORS)**

| | 109 | 121 | 127 | | | |
|---|-----|----------------|-----|------------------------|--|---------|
| 3 | EA | HINGE | | 5BB1 4.5 X 4.5 NRP | | 630 IVE |
| 1 | EA | ENTRANCE LOCK | | ND53RD RHO | | 626 SCH |
| 1 | EA | SURFACE CLOSER | | 4011 H MC | | 689 LCN |
| 1 | EA | KICK PLATE | | 8400 10" X 2" LDW B-CS | | 630 IVE |
| 1 | EA | WALL STOP | | WS406/407CCV | | 630 IVE |
| 1 | EA | GASKETING | | 429AA-S | | AA ZER |
| 1 | EA | DOOR SWEEP | | 39A | | A ZER |

HW SET: 07**DOOR NUMBER: (INCLUDES BUT IS NOT LIMITED TO THE FOLLOWING DOORS)**

| 128C | | 128E | | | |
|------|----|---------------|--------------------|-----|-----|
| 3 | EA | HINGE | 5BB1 4.5 X 4.5 NRP | 630 | IVE |
| 1 | EA | ENTRANCE LOCK | ND53RD RHO | 626 | SCH |
| 1 | EA | WALL STOP | WS406/407CCV | 630 | IVE |
| 1 | EA | GASKETING | 429AA-S | AA | ZER |
| 1 | EA | DOOR SWEEP | 39A | A | ZER |

HW SET: 08**DOOR NUMBER: (INCLUDES BUT IS NOT LIMITED TO THE FOLLOWING DOORS)**

| 111 | | 131F | | | |
|-----|----|----------------|--------------------|-----|-----|
| 3 | EA | HINGE | 5BB1 4.5 X 4.5 NRP | 630 | IVE |
| 1 | EA | ENTRANCE LOCK | ND53RD RHO | 626 | SCH |
| 1 | EA | SURFACE CLOSER | 4111 SCUSH MC | 689 | LCN |
| 1 | EA | GASKETING | 429AA-S | AA | ZER |
| 1 | EA | DOOR SWEEP | 39A | A | ZER |

HW SET: 09**DOOR NUMBER: (INCLUDES BUT IS NOT LIMITED TO THE FOLLOWING DOORS)**

| 123 | | 125 | | | |
|-----|----|----------------|------------------------|-----|-----|
| 3 | EA | HINGE | 5BB1HW 4.5 X 4.5 NRP | 630 | IVE |
| 1 | EA | PUSH PLATE | 8200 6" X 16" | 630 | IVE |
| 1 | EA | PULL PLATE | 8305 10" 6" X 16" | 630 | IVE |
| 1 | EA | SURFACE CLOSER | 4011 MC | 689 | LCN |
| 1 | EA | KICK PLATE | 8400 10" X 2" LDW B-CS | 630 | IVE |
| 1 | EA | WALL STOP | WS406/407CCV | 630 | IVE |
| 1 | EA | GASKETING | 429AA-S | AA | ZER |
| 1 | EA | DOOR SWEEP | 39A | A | ZER |

HW SET: 10**DOOR NUMBER: (INCLUDES BUT IS NOT LIMITED TO THE FOLLOWING DOORS)**

| 118 | | | | | |
|-----|----|--------------------|--------------|-----|-----|
| 4 | EA | WALL STOP | WS406/407CCV | 630 | IVE |
| | | REMAINING HARDWARE | BY DOOR MFG | 630 | |

HW SET: 11**DOOR NUMBER: (INCLUDES BUT IS NOT LIMITED TO THE FOLLOWING DOORS)**

| 114 | | 115 | | 126 | |
|-----|----|----------------|------------------------|-----|-----|
| 3 | EA | HINGE | 5BB1HW 4.5 X 4.5 NRP | 652 | IVE |
| 1 | EA | PUSH PLATE | 8200 6" X 16" | 630 | IVE |
| 1 | EA | PULL PLATE | 8305 10" 6" X 16" | 630 | IVE |
| 1 | EA | SURFACE CLOSER | 4011 MC | 689 | LCN |
| 1 | EA | KICK PLATE | 8400 10" X 2" LDW B-CS | 630 | IVE |
| 1 | EA | WALL STOP | WS406/407CCV | 630 | IVE |
| 1 | EA | GASKETING | 188SBK PSA | BK | ZER |

HW SET: 12**DOOR NUMBER: (INCLUDES BUT IS NOT LIMITED TO THE FOLLOWING DOORS)**

| | | | | | | |
|-----|----|-------------|--------------------|-----|-----|--|
| 105 | | 106 | | | | |
| 3 | EA | HINGE | 5BB1 4.5 X 4.5 NRP | 652 | IVE | |
| 1 | EA | PASSAGE SET | ND10S RHO | 626 | SCH | |
| 1 | EA | WALL STOP | WS406/407CCV | 630 | IVE | |
| 3 | EA | SILENCER | SR64 | GRY | IVE | |

HW SET: 13**DOOR NUMBER: (INCLUDES BUT IS NOT LIMITED TO THE FOLLOWING DOORS)**

| | | | | | | |
|-----|----|---------------|------------------------|-----|------|------|
| 102 | | 103 | 110 | 117 | 117A | 117B |
| 119 | | 202 | | | | |
| 3 | EA | HINGE | 5BB1 4.5 X 4.5 NRP | 652 | IVE | |
| 1 | EA | ENTRANCE LOCK | ND53RD RHO | 626 | SCH | |
| 1 | EA | KICK PLATE | 8400 10" X 2" LDW B-CS | 630 | IVE | |
| 1 | EA | WALL STOP | WS406/407CCV | 630 | IVE | |
| 3 | EA | SILENCER | SR64 | GRY | IVE | |

HW SET: 14**DOOR NUMBER: (INCLUDES BUT IS NOT LIMITED TO THE FOLLOWING DOORS)**

| | | | | | | |
|-----|----|-------------------|--------------------|-----|-----|--|
| 104 | | | | | | |
| 6 | EA | HINGE | 5BB1 4.5 X 4.5 NRP | 652 | IVE | |
| 1 | EA | MANUAL FLUSH BOLT | FB458 (TOP) | 626 | IVE | |
| 1 | EA | STOREROOM LOCK | ND80RD RHO | 626 | SCH | |
| 2 | EA | WALL STOP | WS406/407CCV | 630 | IVE | |
| 3 | EA | SILENCER | SR64 | GRY | IVE | |

HW SET: 15**DOOR NUMBER: (INCLUDES BUT IS NOT LIMITED TO THE FOLLOWING DOORS)**

| | | | | | | |
|------|----|----------------|--------------------|-----|-----|--|
| 111A | | 123A | | | | |
| 3 | EA | HINGE | 5BB1 4.5 X 4.5 NRP | 652 | IVE | |
| 1 | EA | STOREROOM LOCK | ND80RD RHO | 626 | SCH | |
| 1 | EA | WALL STOP | WS406/407CCV | 630 | IVE | |
| 3 | EA | SILENCER | SR64 | GRY | IVE | |

D. END OF SECTION 08 7100

SECTION 31 1000 - SITE CLEARING

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

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

1.2 SUMMARY

- A. This Section includes the following:
 1. Removing existing trees, shrubs, groundcovers, plants, and grass as indicated on demolition plan.
 2. Clearing and grubbing.
 3. Stripping and stockpiling topsoil.
 4. Removing above- and below-grade site improvements.
 5. Disconnecting, capping or sealing, abandoning site utilities in place, and removing site utilities.
 6. Temporary erosion and sedimentation control measures.
- B. Related Sections include the following:
 1. Division 01 Section "Temporary Facilities and Controls" for temporary utilities, temporary construction and support facilities, temporary security, protection facilities, and temporary erosion and sedimentation control procedures.
 2. Division 01 Section "Temporary Tree and Plant Protection" for protecting trees remaining on-site that are affected by site operations.
 3. Division 31 Section "Earth Moving" for soil materials, excavating, backfilling, and site grading.
 4. Division 23 Section "Turf, Grasses, and Plants" for finish grading including preparing and placing planting soil mixes and testing of topsoil material.

1.3 DEFINITIONS

- A. Topsoil: Natural or cultivated surface-soil layer containing organic matter and sand, silt, and clay particles; friable, pervious, and black or a darker shade of brown, gray, or red than underlying subsoil; reasonably free of subsoil, clay lumps, gravel, and other objects more than 2 inches in diameter; and free of subsoil and weeds, roots, toxic materials, or other non-soil materials.
- B. Tree Protection Zone: Area surrounding individual trees or groups of trees to be protected during construction and defined by the drip line of individual trees or the perimeter drip line of groups of trees, unless otherwise indicated.

1.4 MATERIAL OWNERSHIP

- A. Except for stripped topsoil or other materials indicated to remain Owner's property, cleared materials shall become Contractor's property and shall be removed from Project site.

1.5 SUBMITTALS

- A. Photographs or videotape, sufficiently detailed, of existing conditions of trees and plantings, adjoining construction, and site improvements that might be misconstrued as damage caused by site clearing.
- B. Record drawings, according to Division 01 Section "Project Record Documents," identifying and accurately locating capped utilities and other subsurface structural, electrical, and mechanical conditions.

1.6 QUALITY ASSURANCE

- A. Pre-installation Conference: Conduct conference at Project site to comply with requirements in Division 01 Section "Project Management and Coordination."

1.7 PROJECT CONDITIONS

- A. Traffic: Minimize interference with adjoining roads, streets, walks, and other adjacent occupied or used facilities during site-clearing operations.
 - 1. Do not close or obstruct streets, walks, or other adjacent occupied or used facilities without permission from Owner and authorities having jurisdiction.
 - 2. Provide alternate routes around closed or obstructed traffic ways if required by authorities having jurisdiction.
- B. Improvements on Adjoining Property: Authority for performing site clearing indicated on property adjoining Owner's property will be obtained by Owner before award of Contract.
 - 1. Do not proceed with work on adjoining property until directed by Architect.
- C. Salvable Improvements: Carefully remove items indicated to be salvaged and store on Owner's premises where indicated.
- D. Utility Locator Service: Notify utility locator service for area where Project is located before site clearing.
- E. Do not commence site clearing operations until temporary erosion and sedimentation control measures are in place.

PART 2 - PRODUCTS

2.1 SOIL MATERIALS

- A. Satisfactory Soil Materials: Requirements for satisfactory soil materials are specified in Division 31 Section "Earth Moving."
 - 1. Obtain approved borrow soil materials off-site when satisfactory soil materials are not available on-site.

PART 3 - EXECUTION

3.1 PREPARATION

- A. Protect and maintain benchmarks and survey control points from disturbance during construction.
- B. Locate and clearly flag trees and vegetation to remain or to be relocated.
- C. Protect existing site improvements to remain from damage during construction.
 - 1. Restore damaged improvements to their original condition, as acceptable to Owner.

3.2 TEMPORARY EROSION AND SEDIMENTATION CONTROL

- A. Provide temporary erosion and sedimentation control measures to prevent soil erosion and discharge of soil-bearing water runoff or airborne dust to adjacent properties and walkways, according to requirements of authorities having jurisdiction, sediment and erosion control Drawings, a sediment and erosion control plan, specific to the site, that complies with EPA 832/R-92-005 or requirements of authorities having jurisdiction, whichever is more stringent.
- B. Inspect, repair, and maintain erosion and sedimentation control measures during construction until permanent vegetation has been established.
- C. Remove erosion and sedimentation controls and restore and stabilize areas disturbed during removal.

3.3 UTILITIES

- A. Owner will arrange for disconnecting and sealing indicated utilities that serve existing structures before site clearing, when requested by Contractor.
 - 1. Verify that utilities have been disconnected and capped before proceeding with site clearing.
- B. Locate, identify, disconnect, and seal or cap off utilities indicated to be removed.
 - 1. Arrange with utility companies to shut off indicated utilities.
 - 2. Owner will arrange to shut off indicated utilities when requested by Contractor.
- C. Existing Utilities: Do not interrupt utilities serving facilities occupied by Owner or others unless permitted under the following conditions and then only after arranging to provide temporary utility services according to requirements indicated:
 - 1. Notify Architect not less than two days in advance of proposed utility interruptions.
 - 2. Do not proceed with utility interruptions without Architect's written permission.
- D. Excavate for and remove underground utilities indicated to be removed.

- E. Removal of underground utilities is included in Division 21, Division 22, Division 26, Division 27, and Division 28 Sections covering site utilities.

3.4 CLEARING AND GRUBBING

- A. Remove obstructions, trees, shrubs, grass, and other vegetation to permit installation of new construction.
 - 1. Do not remove trees, shrubs, and other vegetation indicated to remain or to be relocated.
 - 2. Cut minor roots and branches of trees indicated to remain in a clean and careful manner where such roots and branches obstruct installation of new construction.
 - 3. Grind stumps and remove roots, obstructions, and debris extending to a depth of 18 inches below exposed subgrade.
 - 4. Use only hand methods for grubbing within tree protection zone.
 - 5. Remove tree branches and dispose of off-site.
- B. Fill depressions caused by clearing and grubbing operations with satisfactory soil material unless further excavation or earthwork is indicated.
 - 1. Place fill material in horizontal layers not exceeding a loose depth of 8 inches and compact each layer to a density equal to adjacent original ground.
- C. Subsequent to stripping, grubbing, and removal of non-engineered fills, a representative from GSH or special inspector as selected by the Owner, must visit the site and verify that suitable natural soils have been encountered prior to placing site grading fills, footings, slabs, or pavements.

3.5 TOPSOIL STRIPPING

- A. Remove sod and grass before stripping topsoil.
- B. Strip topsoil to whatever depths are encountered in a manner to prevent intermingling with underlying subsoil or other waste materials.
 - 1. Remove subsoil and non-soil materials from topsoil, including trash, debris, weeds, roots, and other waste materials.
- C. Stockpile topsoil materials away from edge of excavations without intermixing with subsoil. Grade and shape stockpiles to drain surface water. Cover to prevent windblown dust.
 - 1. Limit height of topsoil stockpiles to 120 inches.
 - 2. Dispose of excess topsoil as specified for waste material disposal.
 - 3. Stockpile surplus topsoil to allow for re-spreading deeper topsoil.
- D. Subsequent to stripping, grubbing, and removal of non-engineered fills, a representative from GSH or special inspector as selected by the Owner, must visit the site and verify that suitable natural soils have been encountered prior to placing site grading fills, footings, slabs, or pavements.

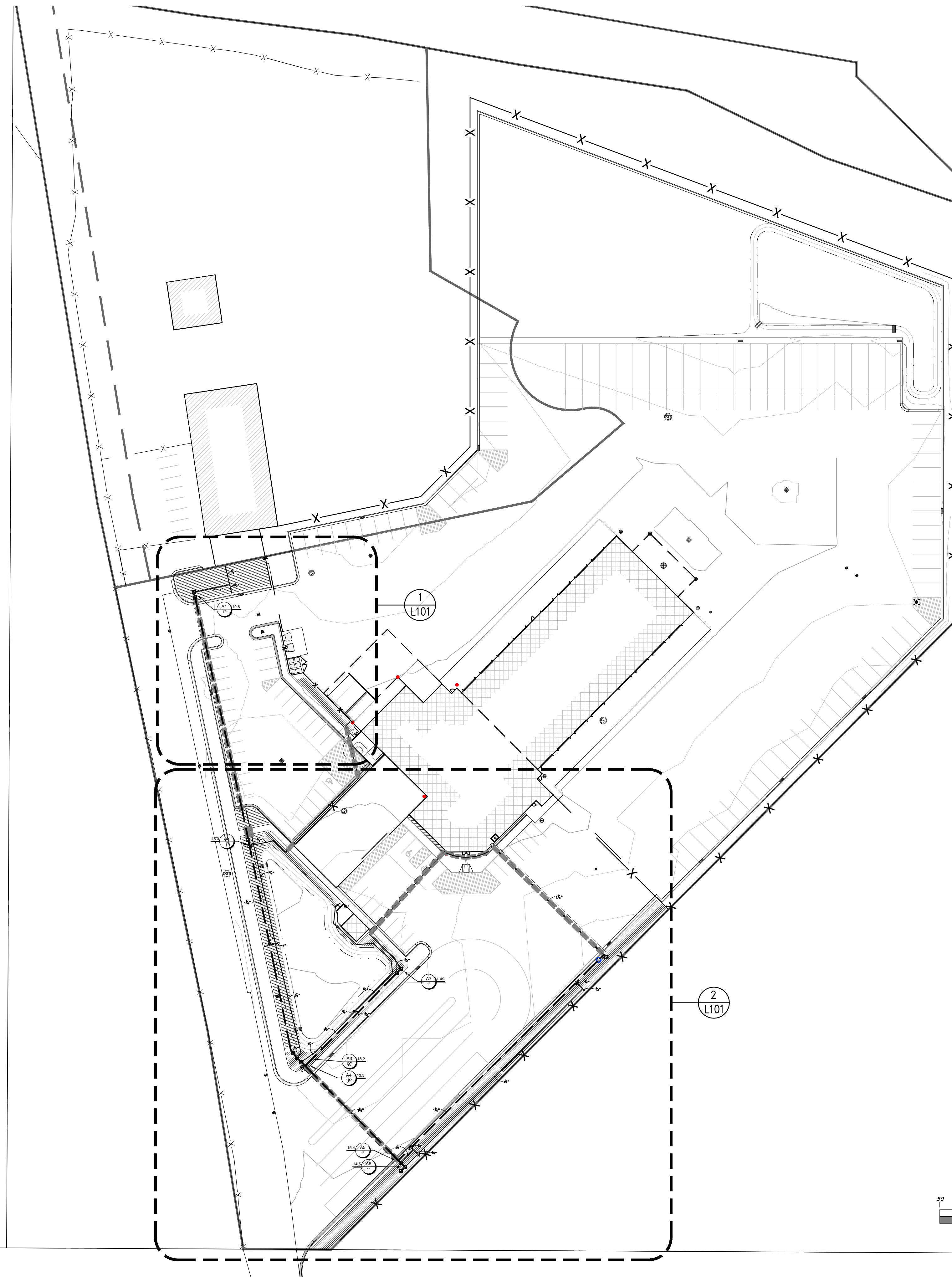
3.6 SITE IMPROVEMENTS

- A. Remove existing above-grade and below-grade improvements as indicated and as necessary to facilitate new construction. Refer to project plans for improvements to be abandoned in place.
- B. Remove slabs, paving, curbs, gutters, and aggregate base as indicated.
 - 1. Unless existing full-depth joints coincide with line of demolition, neatly saw-cut length of existing pavement to remain before removing existing pavement. Saw-cut faces vertically.
 - 2. Paint cut ends of steel reinforcement in concrete to remain to prevent corrosion.

3.7 DISPOSAL

- A. Disposal: Remove surplus soil material, unsuitable topsoil, obstructions, demolished materials, and waste materials including trash and debris, and legally dispose of them off Owner's property.
 - 1. Separate recyclable materials produced during site clearing from other non-recyclable materials. Store or stockpile without intermixing with other materials and transport them to recycling facilities.

END OF SECTION 311000



IRRIGATION AREA

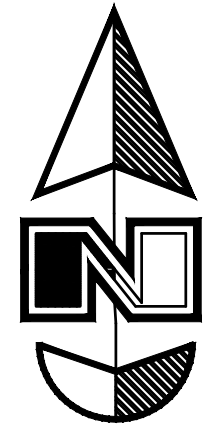
The irrigation system calls for drip tubing rings around individual plants or groups of plants. Densely planted areas will be irrigated by a grid of drip tubing.

Irrigation areas were calculated by adding the areas covered by mature trees and shrubs. The following areas were used:
 Shrub - 100% of the mature size.
 Trees - 50% of the area of the mature tree size.

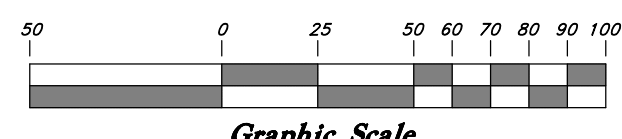
| | |
|----------------------|-----------|
| Total Landscape Area | 51,265 sf |
| Shrub area | 3,247 sf |
| Tree area | 4,003 sf |
| Total Irrigated Area | 7,250 sf |
| % of total | 14.1% |

IRRIGATION NOTES

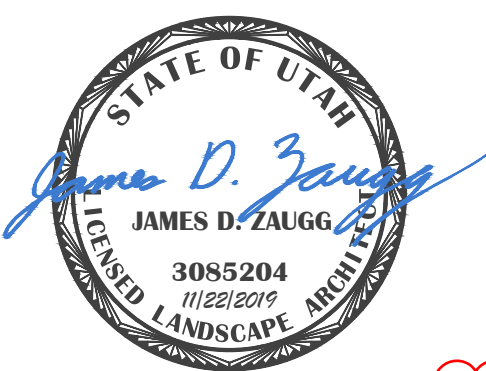
1. Install irrigation wire under paved areas in separate PVC sleeve, size for number of wires.
2. Examine the site conditions, the subgrade and verify elevations. Notify the architect in writing of any unsatisfactory conditions. Do not begin landscape work until unsatisfactory conditions have been resolved.
3. Verify locations of all utilities and site features prior to any digging. Any damage to existing utilities and site features caused by this contractor shall be repaired at no additional expense to the owner.
4. Before any trenching, excavation, or digging, the contractor shall have the area 'Blue Staked' and contact the appropriate utility companies. Contractor shall protect all utilities from damage.
5. All lines shall slope to drain, add manual drains at all mainline low points as necessary for complete drainage of the entire system. Indicate all drain locations on record drawings.
6. This drawing is diagrammatic and is intended to convey the general layout of irrigation system components. Field adjustments may be necessary to maintain full coverage in actual site conditions. Contact the landscape architect if significant changes are necessary. The contractor shall assume full responsibility for revisions to the irrigation system if the irrigation system is installed when site conditions differ from plan layout and the landscape architect was not informed.
7. Lateral and main lines shall be laid in common trenches in landscape areas wherever possible.
8. All piping and wiring under pavement shall be run through separate sleeves. Control wires not laid in a common trench with a main line shall be installed in a conduit of sufficient size.
9. All irrigation equipment not detailed shall be installed as per manufacturer recommendations, specifications, and details.
10. This system is designed to operate at 40 psi for all drip emitters.
11. The irrigation water source is culinary water, see Civil for stub. Pressure at the POC is expected to be _____ psi. If actual pressure varies from the expected, contact landscape architect.
12. Supply products as specified. No substitutions will be allowed unless pre-approved in writing by the owner or landscape architect.
13. Contractor to supply all keys and attic stock per the specifications.
14. Contractor to shut down and winterize the irrigation system at the end of the first season and turn on the system at the beginning of the following season. This work is to be done in the presence of the owners' maintenance personnel.



Scale: 1" = 50'



Graphic Scale



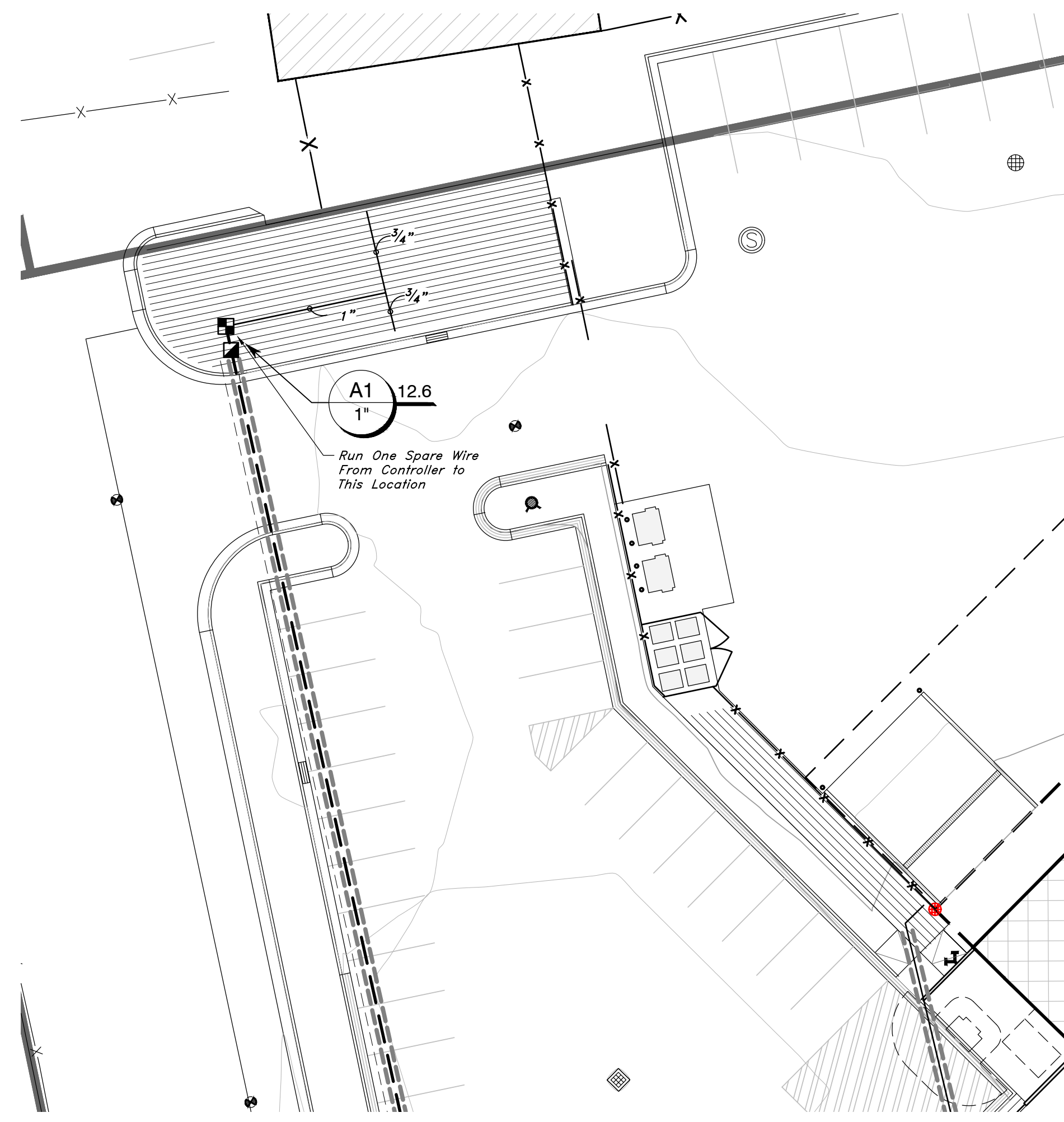
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| 1 | 12/12/2019 | Adendum #1 |

GREAT BASIN ENGINEERING

574 SOUTH 1475 EAST, BODEN, UTAH 84403
 MAIN: 801-394-4455, FAX: 801-392-7544
 WWW.GREATBASINENGINEERING.COM

Overall Irrigation Plan
Kenworth - West Haven
 1750 South 1350 West
 West Haven City, Weber County, Utah
 A part of Section 24, T6N, R2W, SLE&M, U.S. Survey

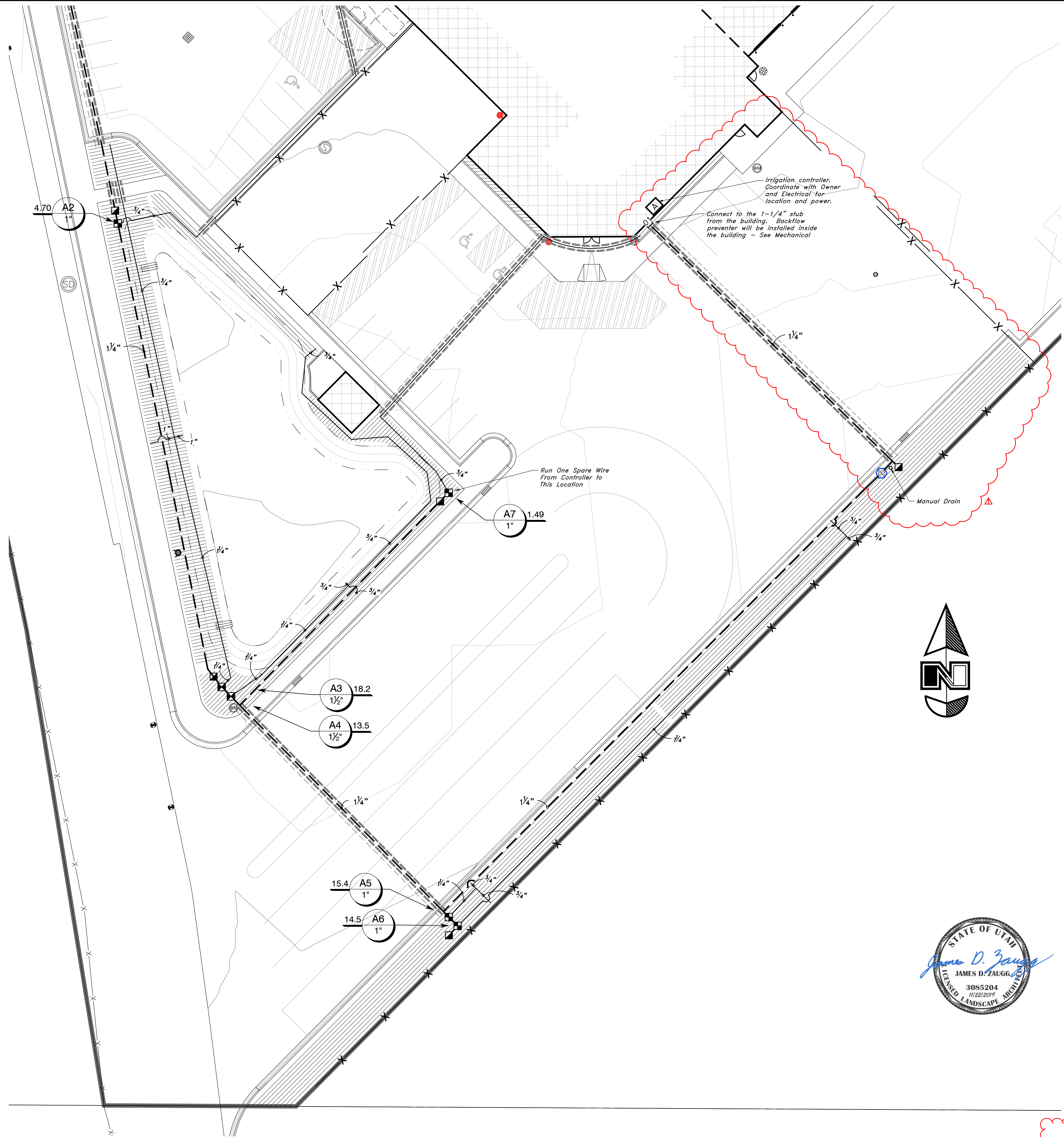
AD #1
 Nov. 2019
 SHEET NO.
L1100
 REVISED 12-16-19
 19N212



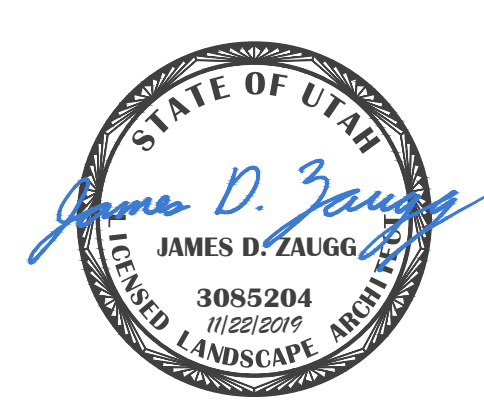
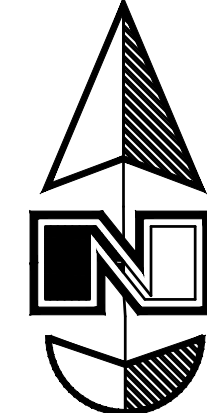
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IRRIGATION SCHEDULE

| SYMBOL | MANUFACTURER/MODEL/DESCRIPTION | DETAIL |
|--------|--|--------|
| | Hunter ICZ-101-40 Drip Control Zone Kit. 1" ICV Globe Valve with 1" HY100 filter system. Pressure Regulation: 40psi. Flow Range: 2 GPM to 20 GPM. 150 mesh stainless steel screen. | |
| | Hunter ICZ-151-XL-40 Drip Control Zone Kit. 1-1/2" ICV Globe Valve with 1" HY100 filter system. Pressure Regulation: 40psi. Flow Range: 20 GPM to 60 GPM. 120 mesh stainless steel screen. 1-1/2" inlet x single 2" outlet. | |
| | Area to Receive Dripline Netafim TLCV-04-12 Techline Pressure Compensating Landscape Dripline with Check Valve. 0.4 GPH emitters at 12" O.C. Dripline laterals spaced at 12" apart, with emitters offset for triangular pattern. 17mm. | |
| SYMBOL | MANUFACTURER/MODEL/DESCRIPTION | DETAIL |
| | Nibco T-113 Class 125 bronze gate manual control valve with wheel handle, same size as mainline pipe diameter at valve location. Size Range - 1" - 3" | |
| | Hunter HQ-44LRC Quick coupler valve, yellow rubber locking cover, red brass and stainless steel, with 1" NPT inlet, 2-piece body. | |
| | Hunter PHC-12 12 station controller with Wi-Fi connection | |
| | Point of Connection 1-1/4" Connect to Irrigation Stub from Building. | |
| | Irrigation Lateral Line: PVC Schedule 40 | |
| | Irrigation Mainline: PVC Schedule 40 | |
| | Pipe Sleeve: PVC Class 200 SDR 21 | |
| | Valve Callout | |
| | Valve Number | |
| | Valve Flow | |
| | Valve Size | |
| | 1" PVC Sch 40 Control Wire Conduit | |



2



| REV | DATE | DESCRIPTION |
|-----|------------|-------------|
| 1 | 12/13/2019 | Adendum #1 |

GREAT BASIN ENGINEERING

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Enlarged Irrigation Plan

Kenworth - West Haven

1750 South 1350 West
 West Haven City, Weber County, Utah
 A part of Section 24, T6N, R2W, SLE&M, U.S. Survey

AD #1

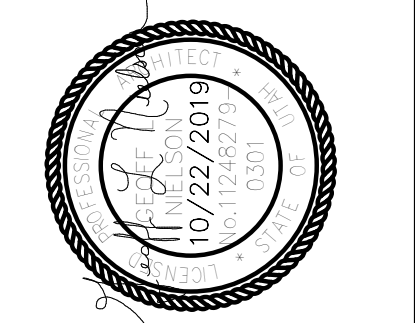
Nov. 2019

SHEET NO.

L1101

REVISED 12-16-19

19N212



nbw architects.p.a.
 ARCHITECTURE / PLANNING / INTERIORS
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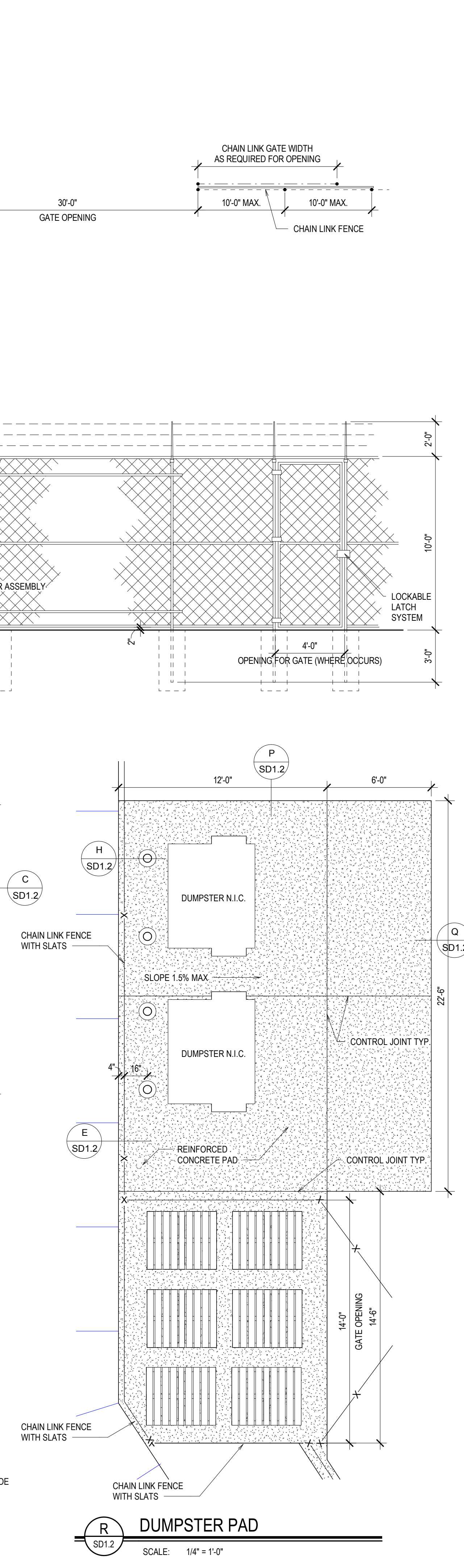
A NEW BUILDING FOR:
KENWORTH SALES COMPANY INC.
 1750 SOUTH 1350 WEST
 WEST HAVEN, UTAH

PROJECT:
 SHEET TITLE: ARCHITECTURAL SITE DETAILS

| REVISIONS | |
|-----------|----------------------|
| 1 | ADDENDUM #1 12-16-19 |

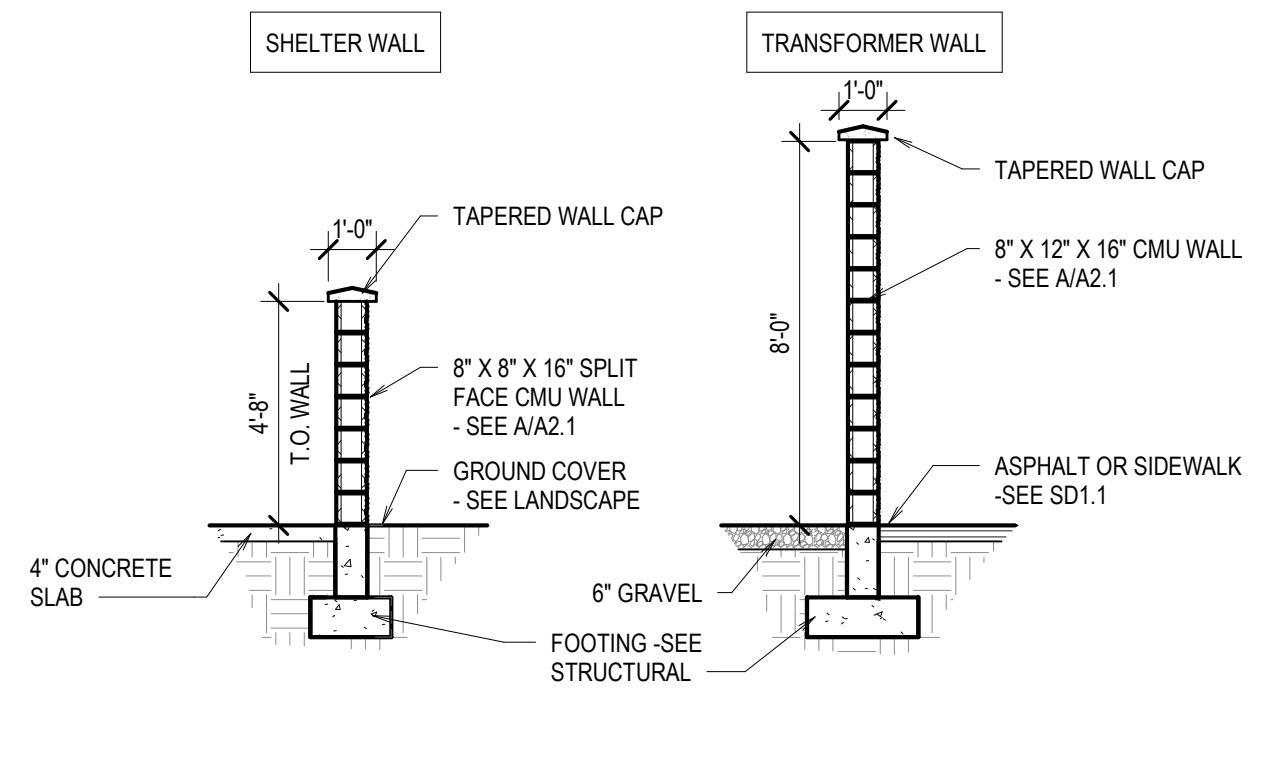
PROJECT NO. 16066
 DATE: NOVEMBER 2019
 DRAWN BY: NRH
 CHECKED BY: GLN
 DRAWING NO.: AD #1

SD1.2
 REVISED 12-16-19

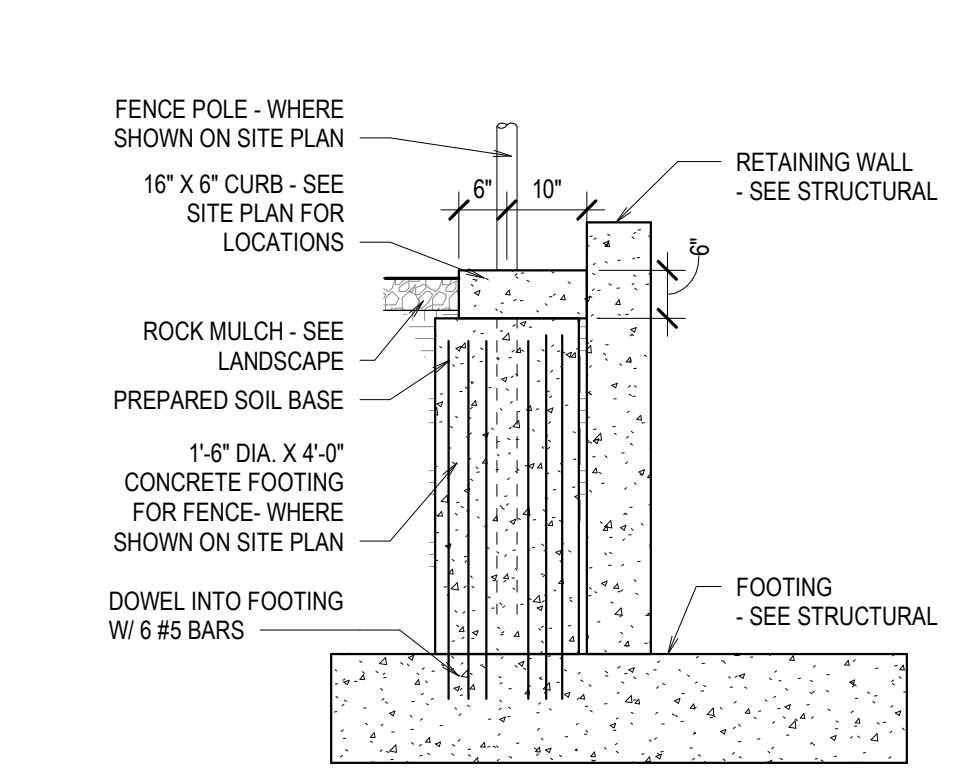


D ROLLING GATE PLAN
 SCALE: 1/8" = 1'-0"

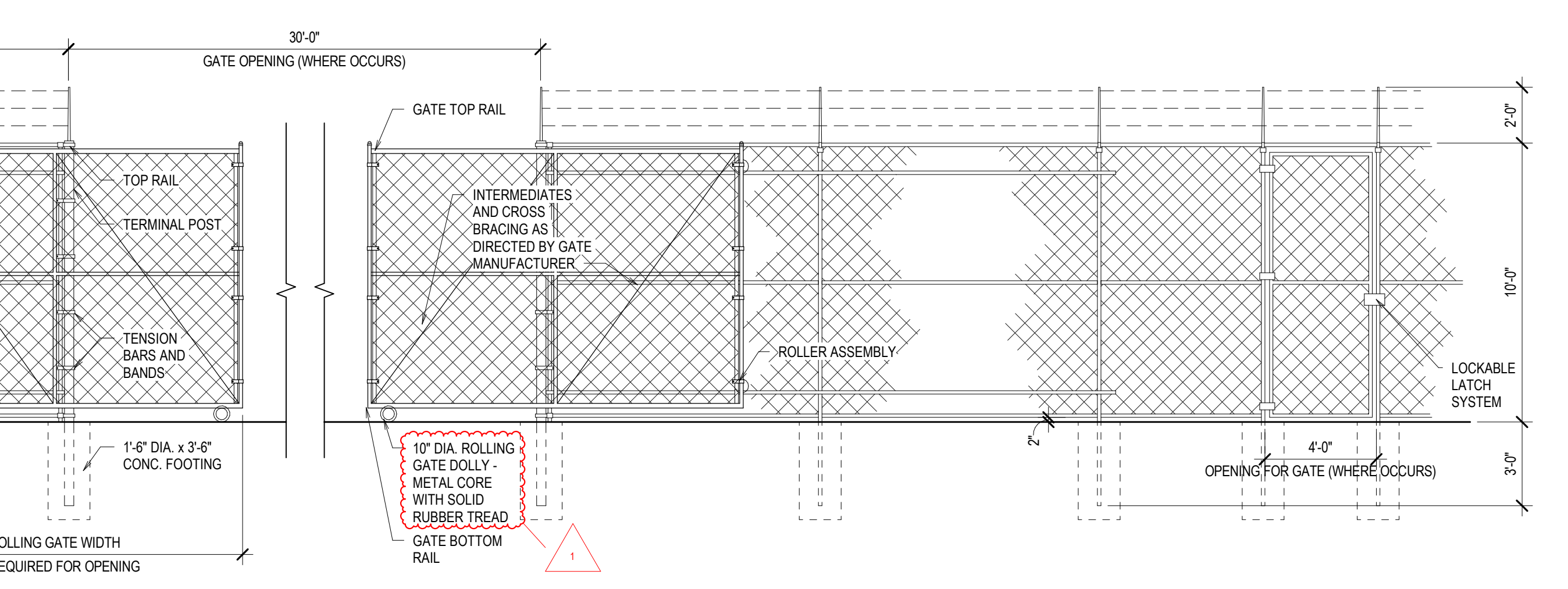
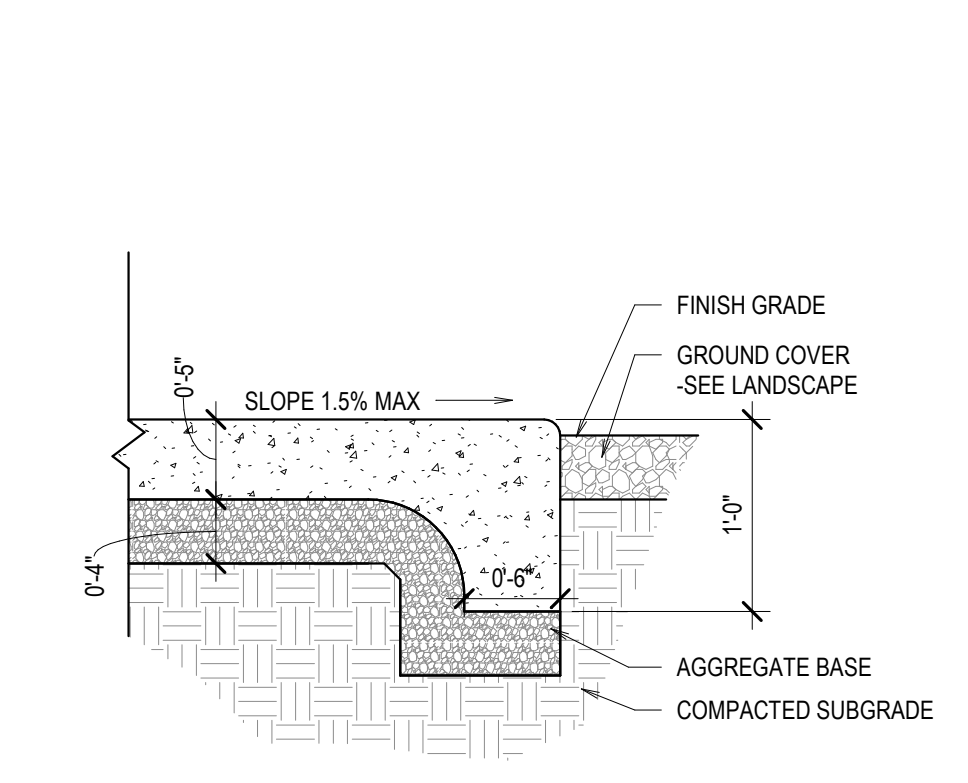
C SECTION
 SCALE: 1/4" = 1'-0"



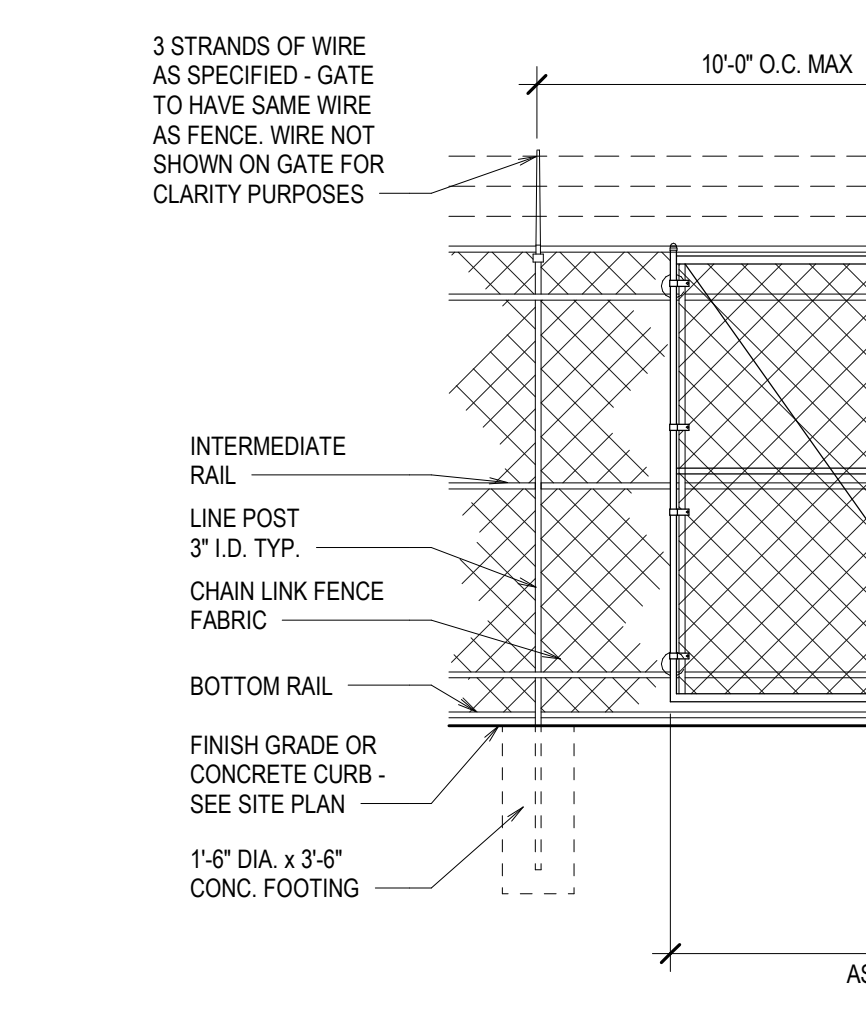
B FENCE CURBING
 SCALE: 1/2" = 1'-0"



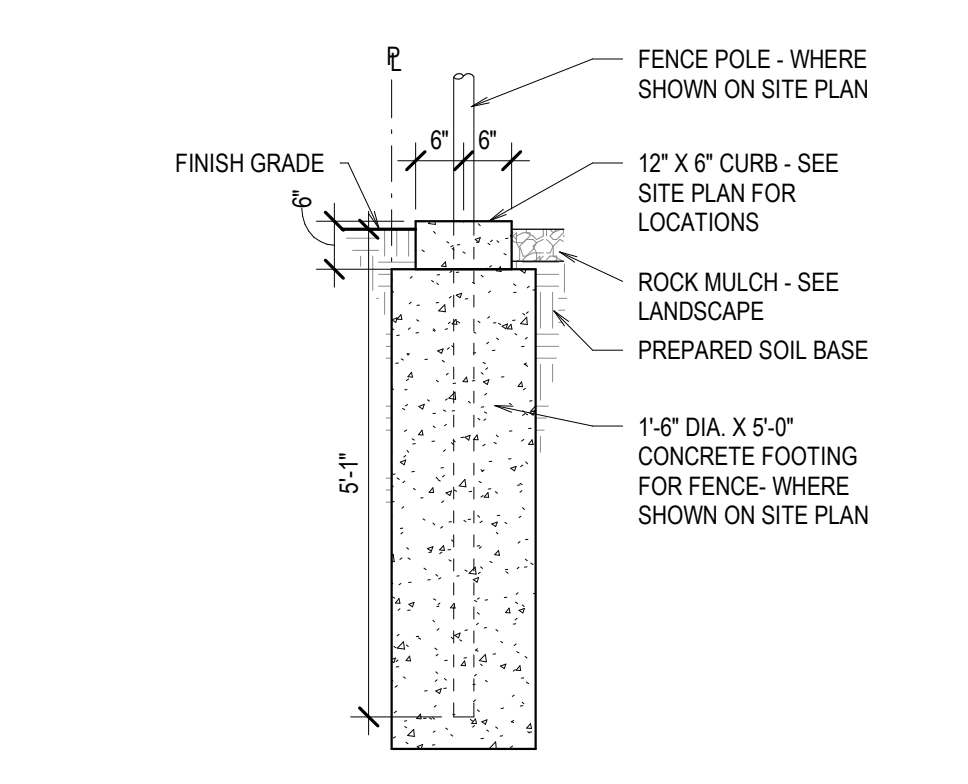
A DETAIL
 SCALE: 1" = 1'-0"



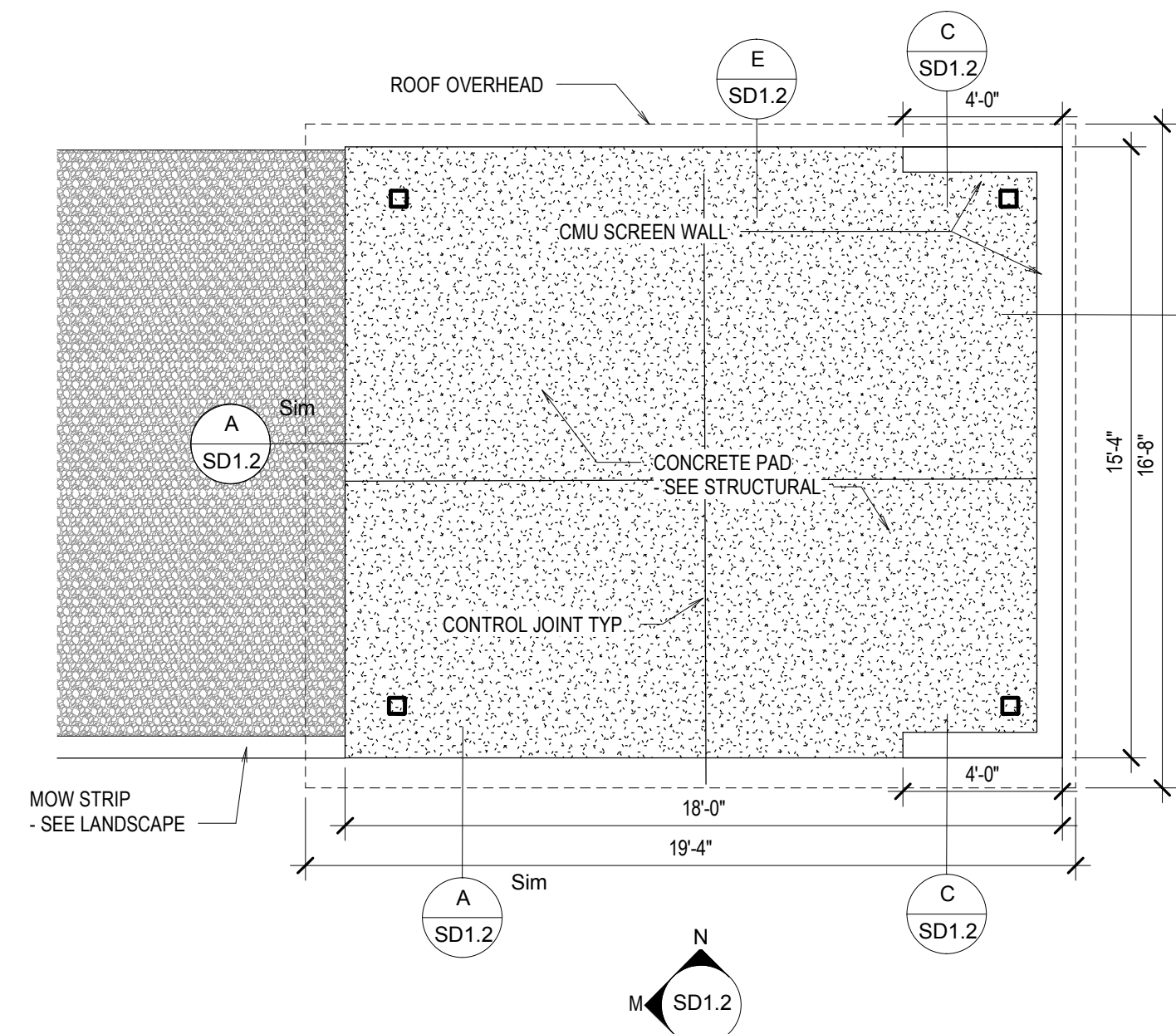
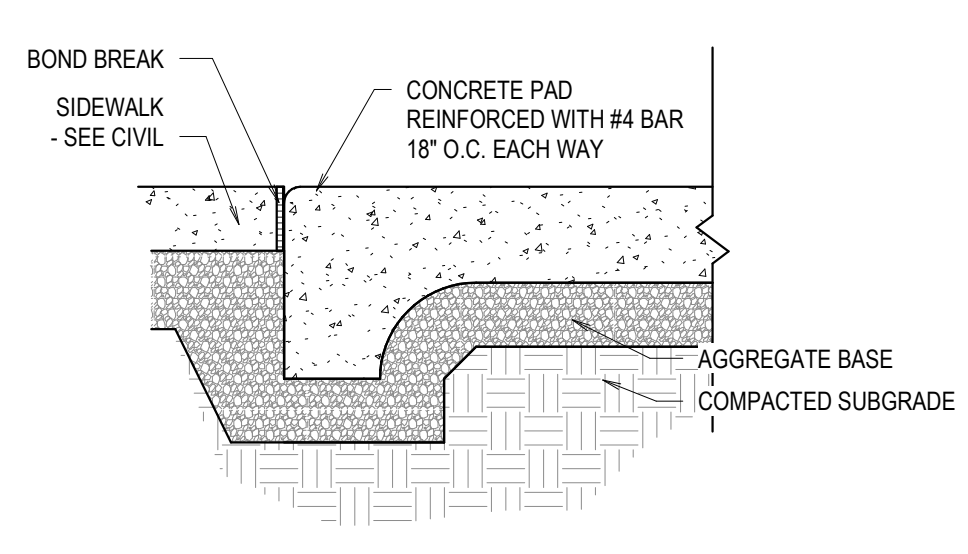
G CHAIN LINK GATE & FENCE
 SCALE: 1/4" = 1'-0"



F FENCE CURBING
 SCALE: 1/2" = 1'-0"

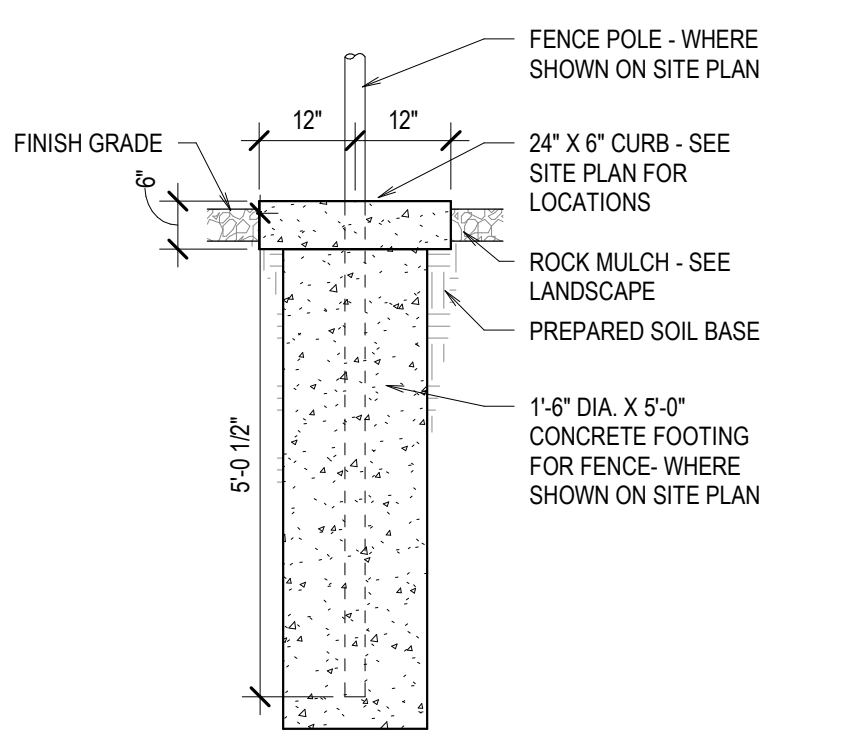


E DETAIL
 SCALE: 1" = 1'-0"

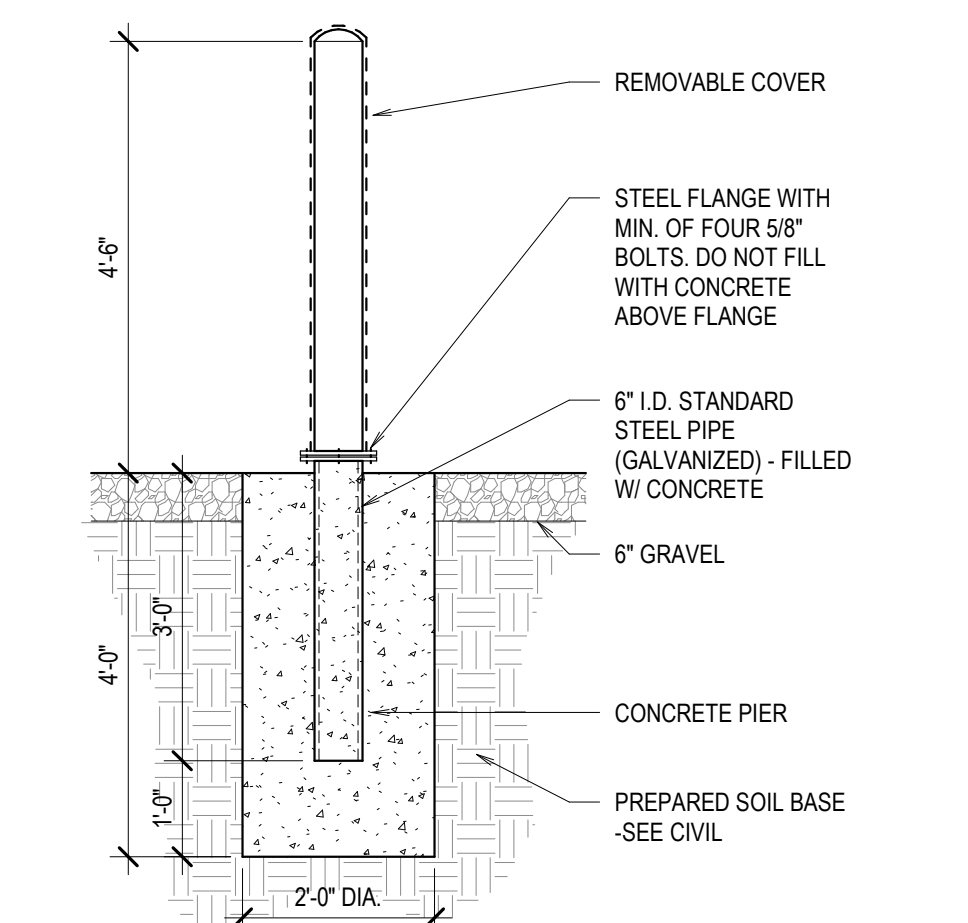


L PLAN VIEW
 SCALE: 1/4" = 1'-0"

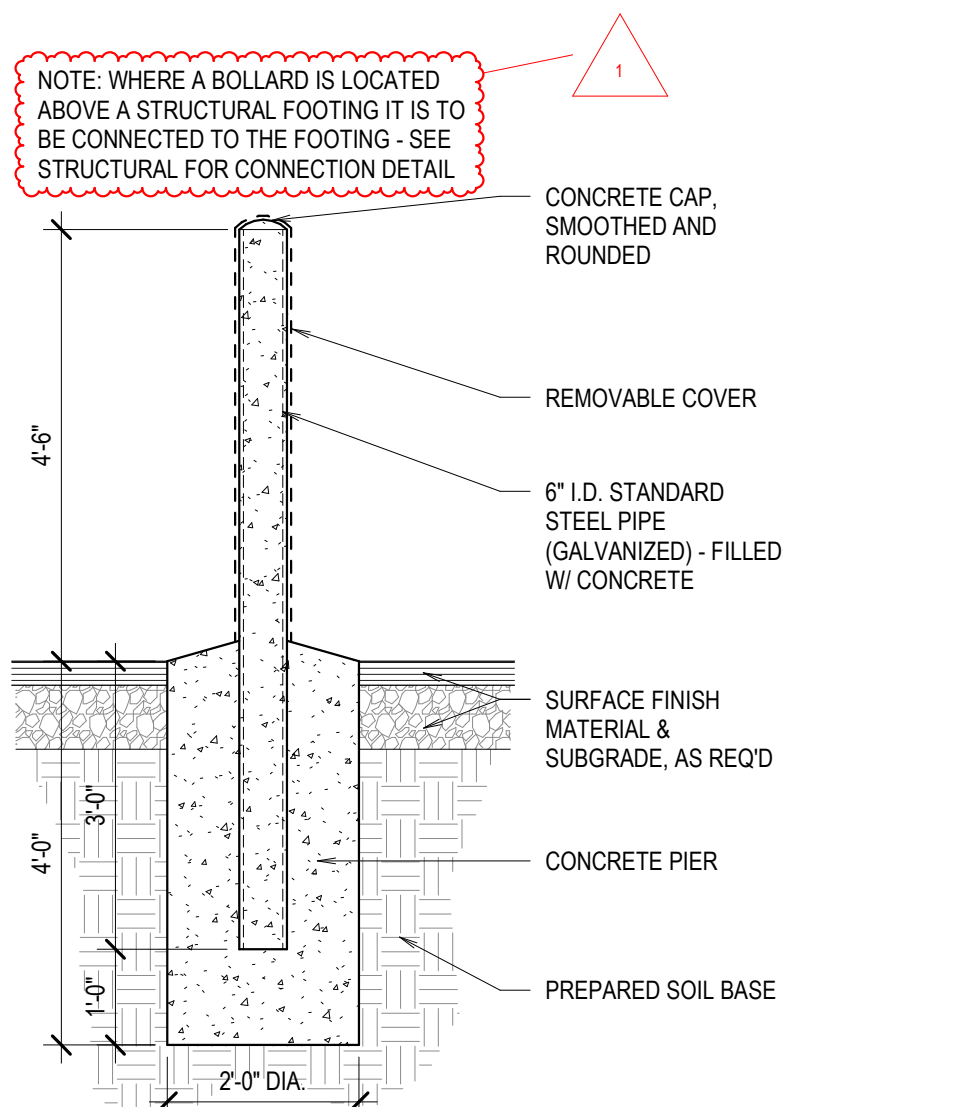
K FENCE CURBING
 SCALE: 1/2" = 1'-0"



J REMOVABLE BOLLARD
 SCALE: 1/2" = 1'-0"

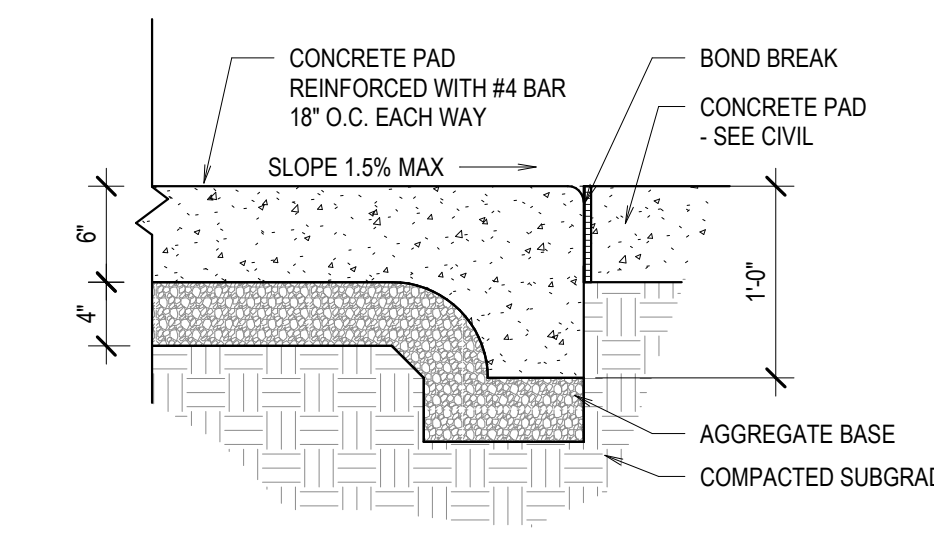


H CONCRETE BOLLARD
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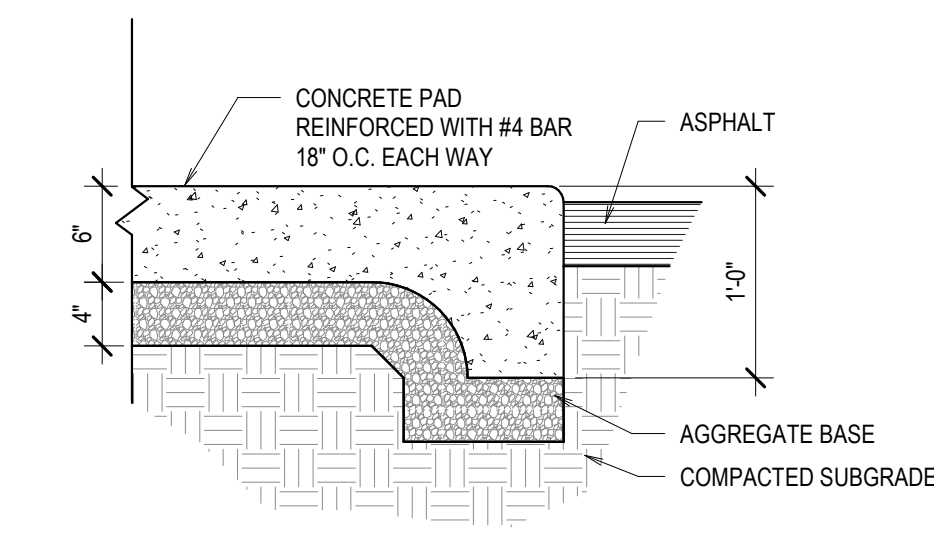


R DUMPSTER PAD
 SCALE: 1/4" = 1'-0"

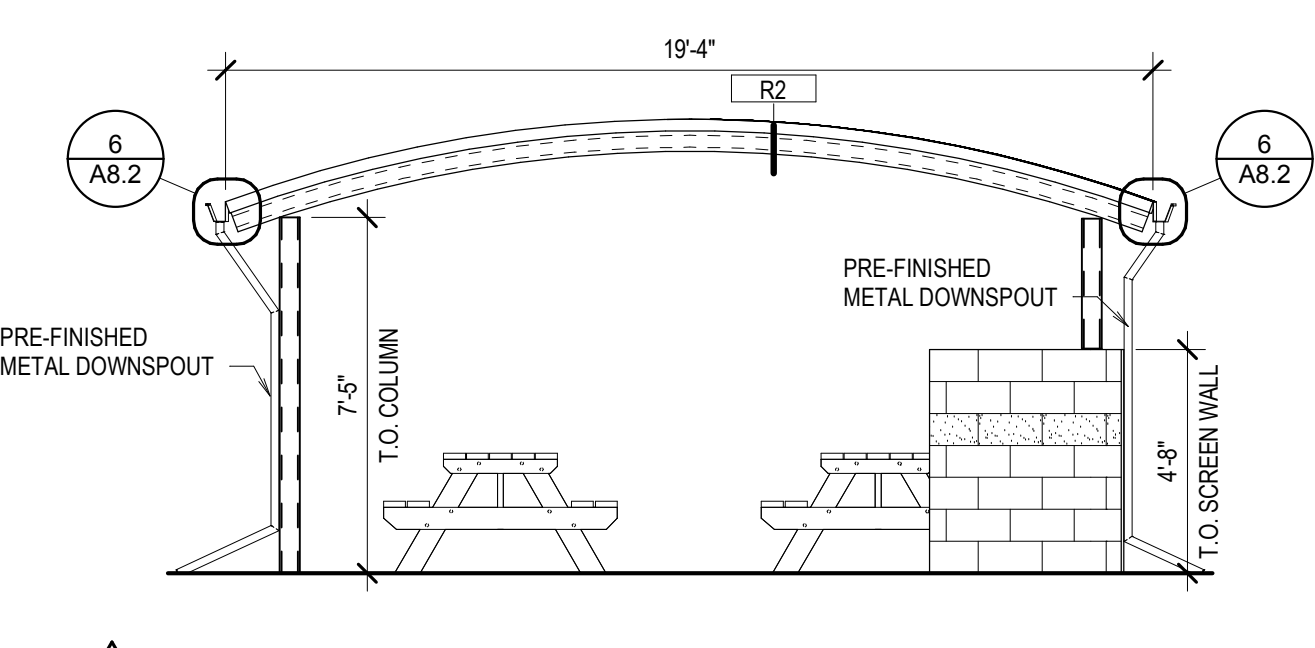
Q DETAIL
 SCALE: 1" = 1'-0"



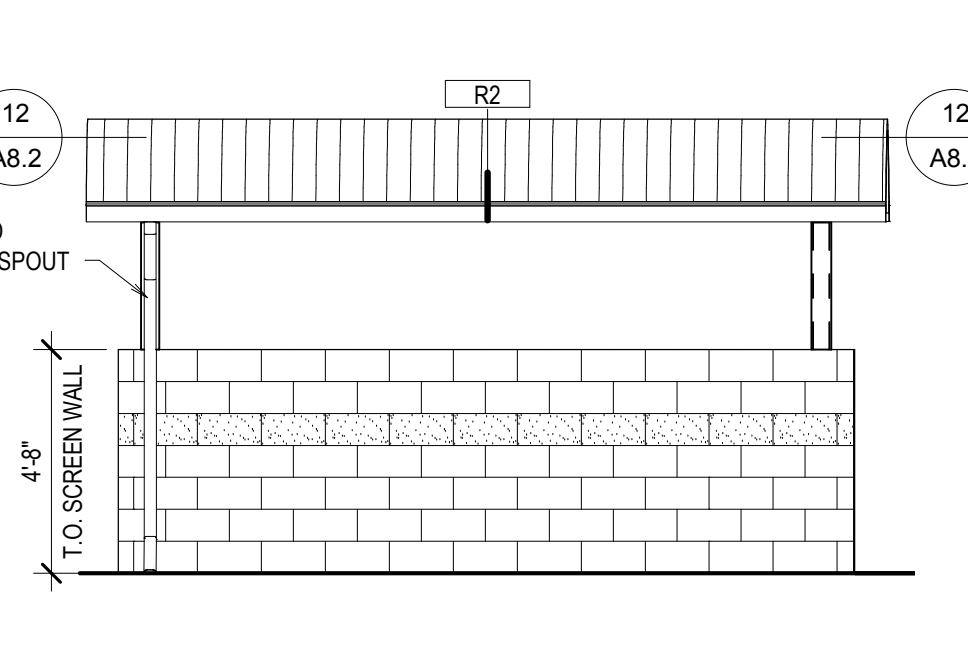
P DETAIL
 SCALE: 1" = 1'-0"



N ELEVATION
 SCALE: 1/4" = 1'-0"



M ELEVATION
 SCALE: 1/4" = 1'-0"



12/16/2019 9:51:04 AM C:\Users\hansen\Documents\KENWORTH\CODEN (V.20)_Hansen\k.nvt

GENERAL NOTES

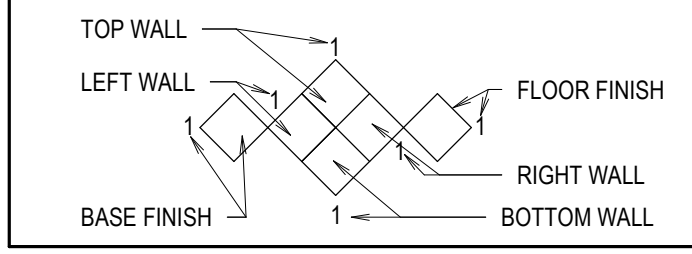
- CONTRACTOR SHALL RESOLVE ALL DIMENSIONAL OR OTHER DISCREPANCIES DURING LAYOUT WITH ARCHITECT, PRIOR TO BEGINNING OF CONSTRUCTION.
- ALL WALL-MOUNTED CASEWORK, MILLWORK, GRAB BARS, HARDWARE, EQUIPMENT, ETC. SHALL BE ANCHORED TO WOOD BLOCKING BETWEEN STUDS, U.N.O. COORDINATE BLOCKING PRIOR TO WALL FINISHES, INCLUDING OWNER FURNISHED ITEMS.
- CAULK ALL INTERIOR AND EXTERIOR JOINTS, U.N.O. - SEE SPEC.
- ALL WORK TO BE IN ACCORDANCE WITH ADOPTED CODES & ACCESSIBILITY REQUIREMENTS.
- EXTEND NON-INSULATED STUD WALLS & GYP. BOARD 12" MIN. ABOVE SUSPENDED CEILING. U.N.O.
- ALL INSULATED INTERIOR WALLS TO EXTEND TO UNDERSIDE OF SECOND FLOOR METAL DECK OR UNDERSIDE OF ROOF METAL DECK FOR SPEECH PRIVACY. SEE LOCATIONS ON FLOOR PLANS - SHOWN AS SOLID SHADED WALLS ON FLOOR PLANS - SEE DETAIL 8/A4.9
- USE ISOLATION TAPE BETWEEN ALL DIS-SIMILAR METALS.
- SHADED WALLS TO RECEIVE INSULATION. SEE SPECIFICATIONS
- F.O.F. INDICATES FACE OF FOUNDATION DIMENSION - INTERIOR WALLS ARE DIMENSIONED TO THE CENTER.
- SEE REFLECTED CEILING PLAN FOR SOUND BATT INSULATION REQUIREMENTS AND LOCATIONS
- FRP TO WRAP DOOR OPENINGS AND TERMINATE AT DOOR JAMBS

KEYNOTES

- STEEL BOLLARD WITH REMOVABLE COVER - TYP. - SEE DOOR DETAIL FOR SPACING OR DETAIL - H/S D1.2
- REMOVABLE BOLLARD WITH REMOVABLE COVER - SEE DETAIL - J/S D1.2
- DUMPSTER - N.I.C.
- GAS METER - SEE MECHANICAL/CIVIL
- 8'-0" TALL WALL. RUN ALTERNATING STUDS, 32" O.C. MAX. TO UNDERSIDE OF DECK OR ROOF JOISTS. SEE DETAIL FOR ATTACHMENT - A/A 7.1
- ELECTRICAL EQUIPMENT - SEE ELECTRICAL
- DYNAMIC CLOSURES EZ SERIES SECURITY GRILLE WITH 4" WIDE ALUMINUM ROD & LINK STRAIGHT PATTERN CONFIGURATION. GRILLE IS TO EXTEND FROM FLOOR TO CEILING. PROVIDE A 2x8 SUPPORT HEADER AT CEILING HEIGHT FOR SUPPORT OF THE HEAD TRACK. TRIM OUT AS REQUIRED FOR A FLUSH CEILING.
- FIRE EXTINGUISHER - BRACKET MOUNTED IN REPAIR SHOPS AND PARTS WAREHOUSE. SEMI-RECESSED CABINET IN RETAIL OFFICE AREAS.
- 8'-0" TALL CMU WALL - CMU PATTERN TO MATCH MAIN BUILDING PATTERN.
- PALLET RACKING, CATWALK, STAIRS, - BY OWNER.
- 6" X 6" X 60" ALUMINUM DIAMOND PLATE WALL GUARD AT CORNERS.
- WINDOW ASSEMBLY & OFFICE DOOR SIDELITES (UPPER LITE ONLY) TO RECEIVE INTERIOR ROLL DOWN SHADE DEVICES. SEE S/A 6.3
- ROOF ACCESS LADDER - B/A 8.1 & A/A 8.1
- TRANSFORMER PAD WITH 6" PAD OF 1-1/2" WASHED DRAIN ROCK OVER WEED BARRIER.
- 6" X (WALL WIDTH) 6" X 60" ALUMINUM DIAMOND PLATE WALL END GUARD.
- FLOOR DRAINS, CENTER UNDER TOILET PARTITION - SEE PLUMBING.
- HAND WASH STATION - SEE MECH.
- 6" X (WALL WIDTH) X 6" X 96" 3/8" STEEL SHEET
- YELLOW PAINT STRIPING TO MATCH WIDTH OF DOOR OPENING

FINISH SCHEDULE KEY

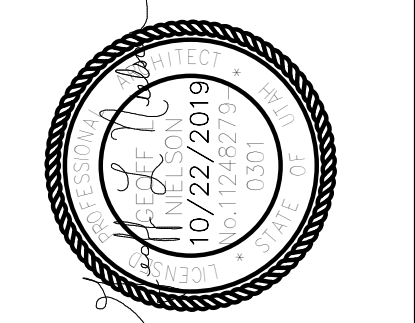
- WALL FINISH**
- P1 WHITE - PAINTED, TEXTURED GYP. BOARD
 - P2 GREY - PAINTED PLYWOOD - PAINTED
 - P3 GREY - PAINTED CMU WAINSCOT WITH "P1" ABOVE 8'-0"
 - P4 GREY - PAINTED CMU WAINSCOT - I.M.P. ABOVE
 - P5 GREY - PAINTED CMU
 - P6 GREY - PAINTED AC GRADE PLYWOOD UP TO 8'-0"
 - P7 "P1" ABOVE 8'-0"
 - P8 4'-0" GREY COLOR FRP OVER GYP. BOARD - "P1" ABOVE.
 - P9 ASPHALT EMULSION ON CONCRETE OR CMU
 - W1 WHITE COLOR FRP OVER GYP. BOARD
 - W2 GREY COLOR FRP OVER GYP. BOARD
 - W3 GREY COLOR FRP OVER CD GRADE WOOD SHEATHING TO 8'-0"
 - T1 "P1" ABOVE 8'-0"
 - CERAMIC TILE - SEE ELEVATIONS
- BASE FINISH**
- B1 4" COVED RUBBER (EXCEPT AGAINST CMU)
 - B2 6" CERAMIC TILE
 - B3 NO BASE
- FLOOR FINISH**
- F1 SEALED CONCRETE - SEE A1.3
 - F2 'STAINED CONCRETE - SEE A1.3
 - F3 'BURNISHED CONCRETE - SEE A1.3
- NOTES:**
- ONE WALL IN ROOM TO RECEIVE ACCENT COLOR - VERIFY LOCATION WITH OWNER
 - EPOXY PAINT TO BE USED
 - COLUMNS IN ROOM - GREY PAINT UP TO 8'-0". WHITE PAINT 8'-0" TO UNDERSIDE OF DECK.



OWNER FURNISHED AND PROVIDED EQUIPMENT

NOTE: LIST FOR OWNER REFERENCE ONLY - REFER TO MECHANICAL/PLUMBING/ELECTRICAL/STRUCTURAL

| | |
|------------------------|----------------------------|
| STEAM WASHER | AIR DRYER |
| GRINDER | PARTS WASHER |
| JIB CRANE | HYDRAULIC PRESS |
| FLOOR LIFT AND CONTROL | DRILL PRESS |
| BRIDGE CRANE | OIL REEL |
| FLY-WHEEL GRINDER | SOLVENT TANK |
| HOSE CRIMPER | CHOP SAW |
| COMPRESSOR (2) | OIL TANK |
| AIR TANK | WASTE OIL & ANTIFREEZE DRO |
| OIL SEPARATOR | |



nbw architects p.a.
 ARCHITECTURE PLANNING INTERIORS
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 990 JOHN RIBB PARKWAY P.O. BOX 2212 - (BIR) FALLS, IDAHO 83402-2212
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A NEW BUILDING FOR:
KENWORTH SALES COMPANY INC.
 1750 SOUTH 1350 WEST
 WEST HAVEN, UTAH

PROJECT:
 SHEET TITLE: MAIN FLOOR & UPPER MEZZANINE - PART 1 - ANNOTATION PLAN

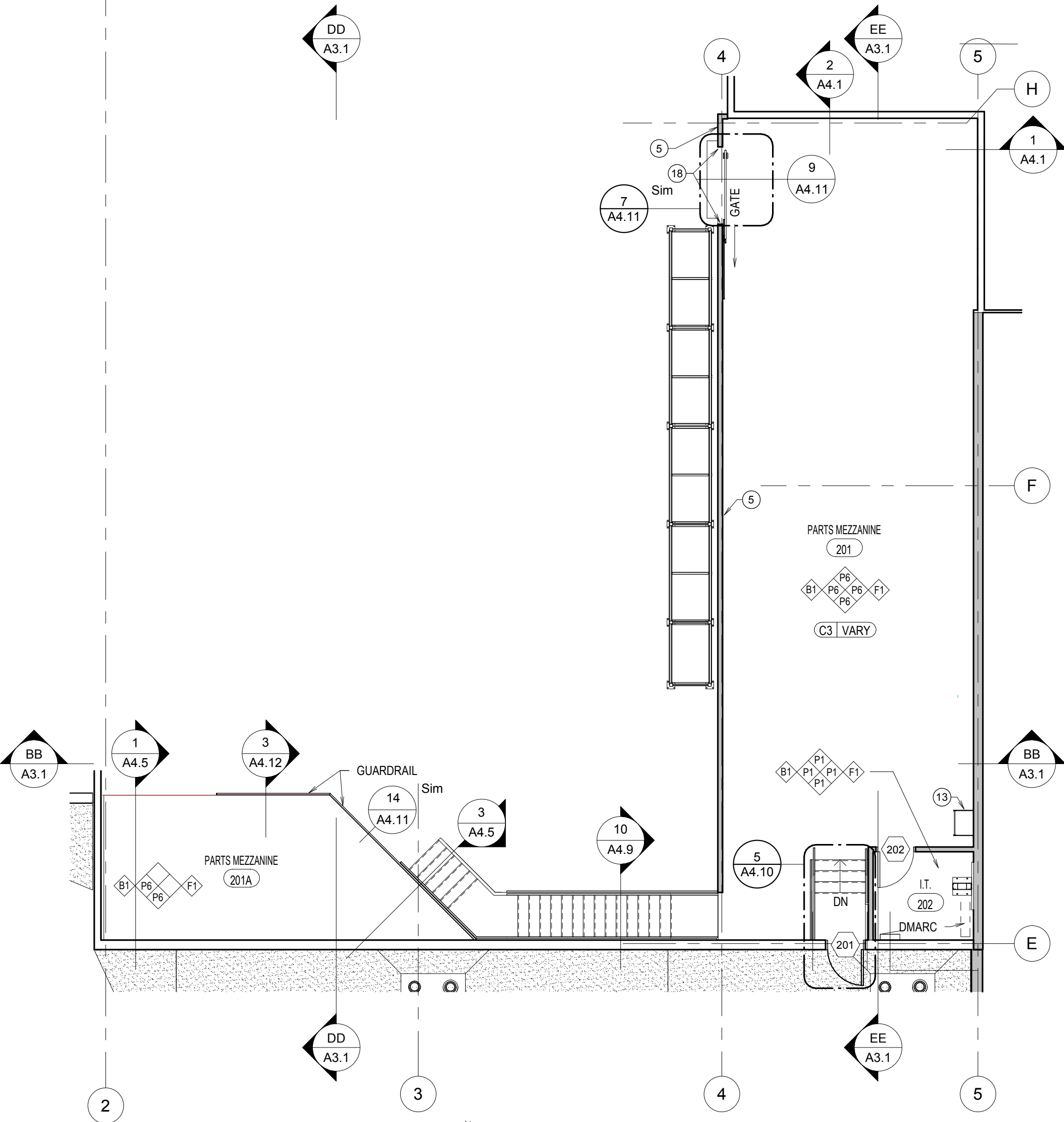
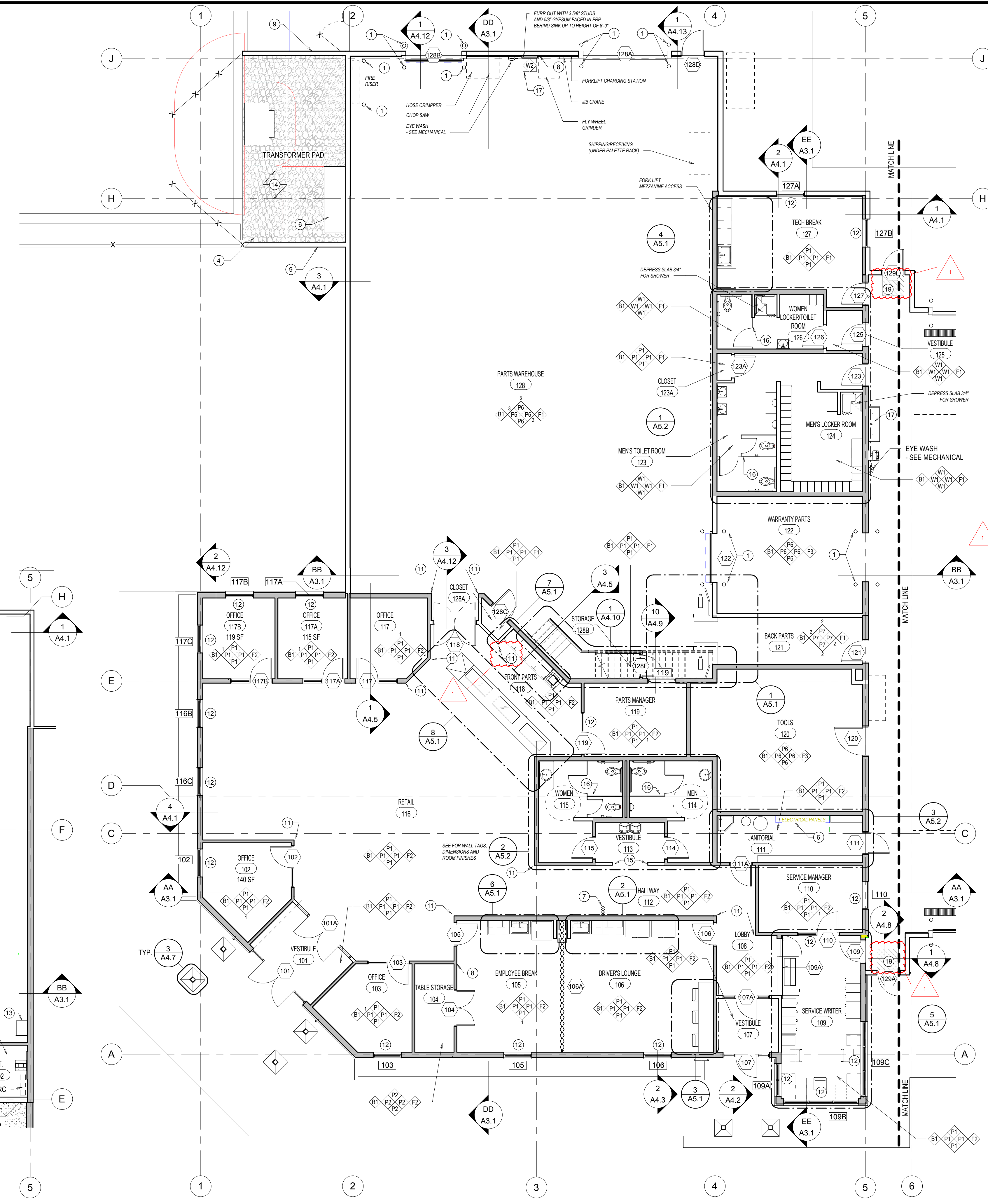
REVISIONS

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| 1 | ADDENDUM #1 | 12-16-19 |
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PROJECT NO. 16066
 DATE: NOVEMBER 2019
 DRAWN BY: NRH
 CHECKED BY: GLN

DRAWING NO.: AD #1

A1.1
 REVISED 12-16-19



UPPER MEZZANINE ANNOTATION

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

MAIN FLOOR - PART 1 ANNOTATION

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

GENERAL NOTES

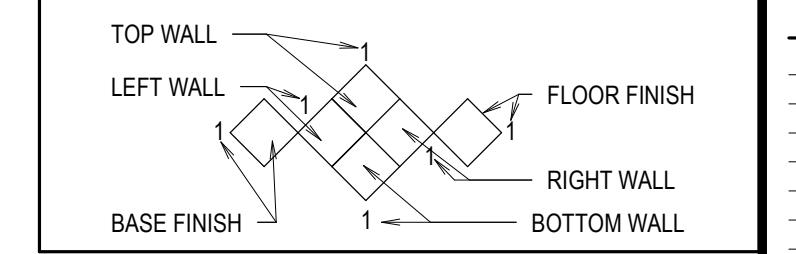
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- ALL WORK TO BE IN ACCORDANCE WITH ADOPTED CODES & ACCESSIBILITY REQUIREMENTS.
- EXTEND NON-INSULATED STUD WALLS & GYP. BOARD 12" MIN. ABOVE SUSPENDED CEILING, U.N.O.
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- USE ISOLATION TAPE BETWEEN ALL DIS-SIMILAR METALS.
- SHADED WALLS TO RECEIVE INSULATION. SEE SPECIFICATIONS.
- F.O.F. INDICATES FACE OF FOUNDATION DIMENSION - INTERIOR WALLS ARE DIMENSIONED TO THE CENTER.
- SEE REFLECTED CEILING PLAN FOR SOUND BATT INSULATION REQUIREMENTS AND LOCATIONS.
- FRP TO WRAP DOOR OPENINGS AND TERMINATE AT DOOR JAMBS.

KEYNOTES

- STEEL BOLLARD WITH REMOVABLE COVER - TYP. - SEE DOOR DETAIL FOR SPACING OR DETAIL - H / SD1.2
- REMOVABLE BOLLARD WITH REMOVABLE COVER - SEE DETAIL - J / SD1.2
- DUMPSTER - N.I.C.
- GAS METER - SEE MECHANICAL/CIVIL
- 8'-0" TALL WALL, RUN ALTERNATING STUDS, 32" O.C. MAX. TO UNDERSIDE OF DECK OR ROOF JOISTS. SEE DETAIL FOR ATTACHMENT - A / A7.1
- ELECTRICAL EQUIPMENT - SEE ELECTRICAL
- DYNAMIC CLOSURES EZ SERIES SECURITY GRILLE WITH 4" WIDE ALUMINUM ROD & LINK STRAIGHT PATTERN CONFIGURATION. GRILLE IS TO EXTEND FROM FLOOR TO CEILING. PROVIDE A 2x4 SUPPORT HEADER AT CEILING HEIGHT FOR SUPPORT OF THE HEAD TRACK. TRIM OUT AS REQUIRED FOR A FLUSH CEILING.
- FIRE EXTINGUISHER - BRACKET MOUNTED IN REPAIR SHOPS AND PARTS WAREHOUSE. SEMI-RECESSED CABINET IN RETAIL OFFICE AREAS.
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- 6" X 6" X 60" ALUMINUM DIAMOND PLATE WALL GUARD AT CORNERS.
- WINDOW ASSEMBLY & OFFICE DOOR SIDELITES (UPPER LITE ONLY) TO RECEIVE INTERIOR ROLL DOWN SHADE DEVICES. SEE S / A6.3
- ROOF ACCESS LADDER - B / A8.1 & A / A8.1
- TRANSFORMER PAD WITH 6" PAD OF 1-1/2" WASHED DRAIN ROCK OVER WEED BARRIER.
- 6" X (WALL WIDTH) 6" X 60" ALUMINUM DIAMOND PLATE WALL END GUARD.
- FLOOR DRAINS, CENTER UNDER TOILET PARTITION - SEE PLUMBING.
- HAND WASH STATION - SEE MECH.
- 6" X (WALL WIDTH) X 6" X 96" 3/8" STEEL SHEET
- YELLOW PAINT STRIPING TO MATCH WIDTH OF DOOR OPENING

FINISH SCHEDULE KEY

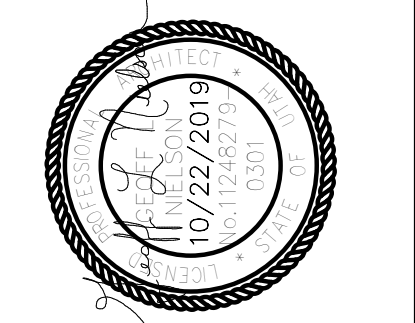
- WALL FINISH**
- P1 WHITE - PAINTED, TEXTURED GYP. BOARD
 - P2 AC GRADE PLYWOOD - PAINTED
 - P3 GREY - PAINTED CMU WAINSCOT WITH "P1" ABOVE 8'-0"
 - P4 GREY - PAINTED CMU WAINSCOT - I.M.P. ABOVE
 - P5 GREY - PAINTED CMU
 - P6 GREY - PAINTED AC GRADE PLYWOOD UP TO 8'-0" "P1" ABOVE 8'-0"
 - P7 4'-0" GREY COLOR FRP OVER GYP. BOARD - "P1" ABOVE
 - P8 ASPHALT EMULSION ON CONCRETE OR CMU
 - W1 WHITE COLOR FRP OVER GYP. BOARD
 - W2 GREY COLOR FRP OVER GYP. BOARD
 - W3 GREY COLOR FRP OVER CD GRADE WOOD SHEATHING TO 8'-0" "P1" ABOVE 8'-0"
 - T1 CERAMIC TILE - SEE ELEVATIONS
- BASE FINISH**
- B1 4" COVED RUBBER (EXCEPT AGAINST CMU)
 - B2 6" CERAMIC TILE
 - B3 NO BASE
- FLOOR FINISH**
- F1 SEALED CONCRETE - SEE A1.3
 - F2 'STAINED CONCRETE - SEE A1.3
 - F3 'BURNISHED CONCRETE - SEE A1.3
- NOTES:**
- ONE WALL IN ROOM TO RECEIVE ACCENT COLOR - VERIFY LOCATION WITH OWNER
 - EPOXY PAINT TO BE USED
 - COLUMNS IN ROOM - GREY PAINT UP TO 8'-0". WHITE PAINT 8'-0" TO UNDERSIDE OF DECK.



OWNER FURNISHED AND PROVIDED EQUIPMENT

NOTE: LIST FOR OWNER REFERENCE ONLY - REFER TO MECHANICAL/PLUMBING/ELECTRICAL/STRUCTURAL

| | |
|------------------------|----------------------------|
| STEAM WASHER | AIR DRYER |
| GRINDER | PARTS WASHER |
| JIB CRANE | HYDRAULIC PRESS |
| FLOOR LIFT AND CONTROL | DRILL PRESS |
| BRIDGE CRANE | OIL REEL |
| FLY-WHEEL GRINDER | SOLVENT TANK |
| HOSE CRIMPER | CHOP SAW |
| COMPRESSOR (2) | OIL TANK |
| AIR TANK | WASTE OIL & ANTIFREEZE DRO |
| OIL SEPARATOR | |



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 990 JOHN RIBBING PARKWAY P.O. BOX 2212 - IRVING, TEXAS 75039-0212
 (972) 208-5222 (972) 208-5222 (972) 208-5222

A NEW BUILDING FOR:
KENWORTH SALES COMPANY INC.
 1750 SOUTH 1350 WEST
 WEST HAVEN, UTAH

PROJECT:
 SHEET TITLE: MAIN FLOOR & UPPER MEZZANINE - PART 1 - DIMENSION PLAN

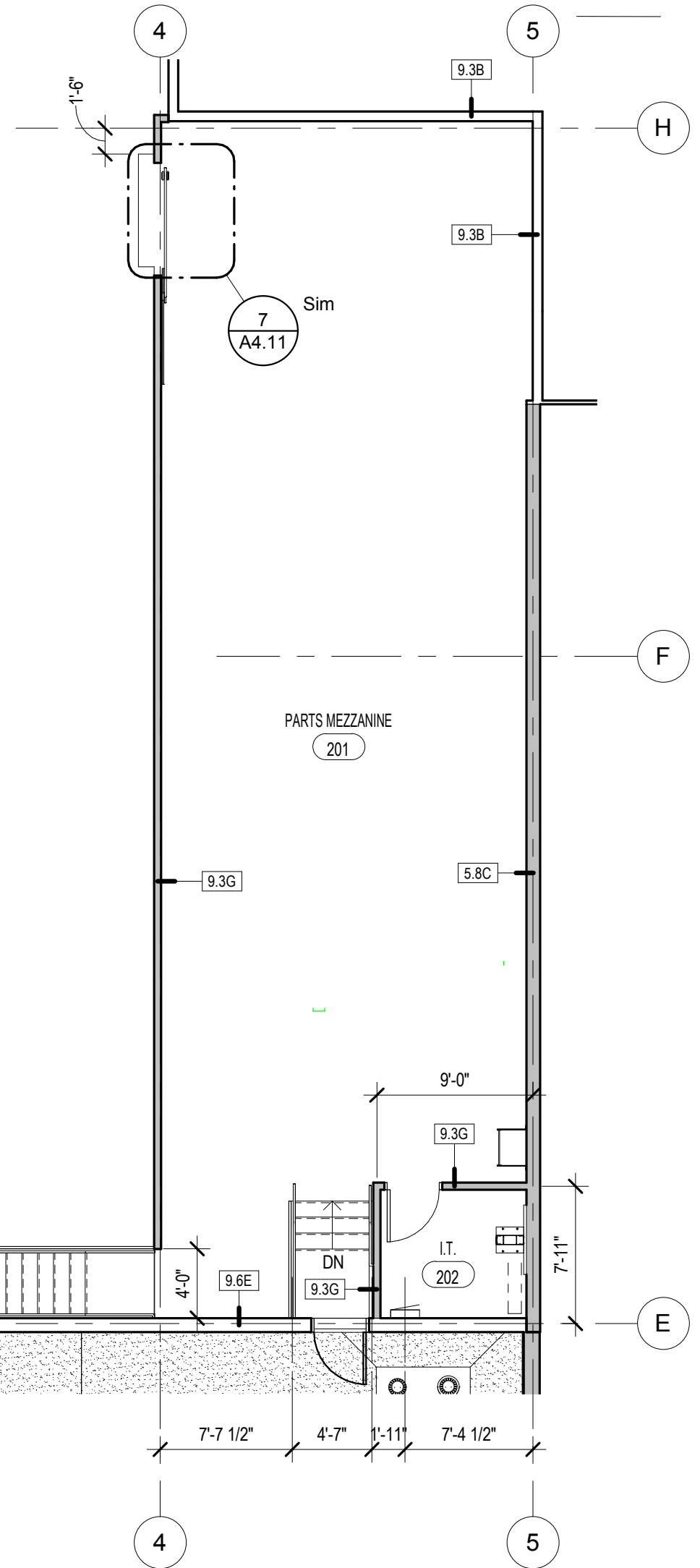
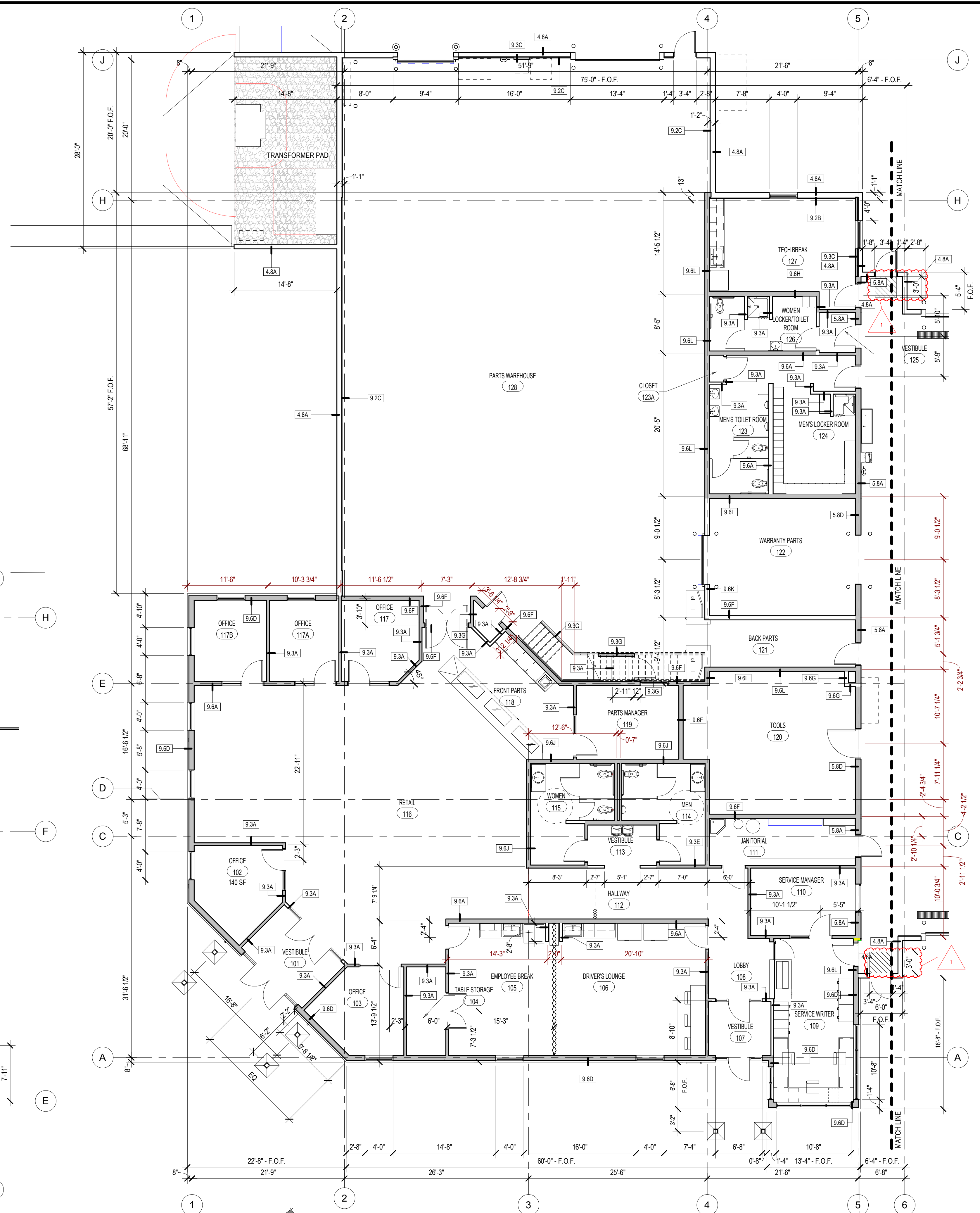
REVISIONS

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| 1 | ADDENDUM #1 | 12-16-19 |
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PROJECT NO. 16066
 DATE: NOVEMBER 2019
 DRAWN BY: NRH
 CHECKED BY: GLN

DRAWING NO.: AD #1

A1.2
 REVISED 12-16-19

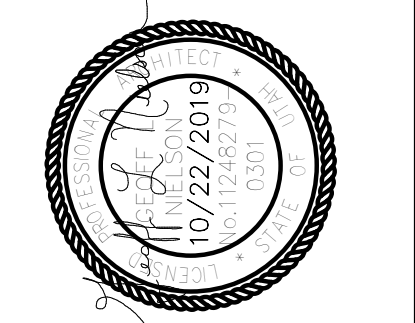


UPPER MEZZANINE DIMENSION

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

MAIN FLOOR - PART 1 DIMENSION

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



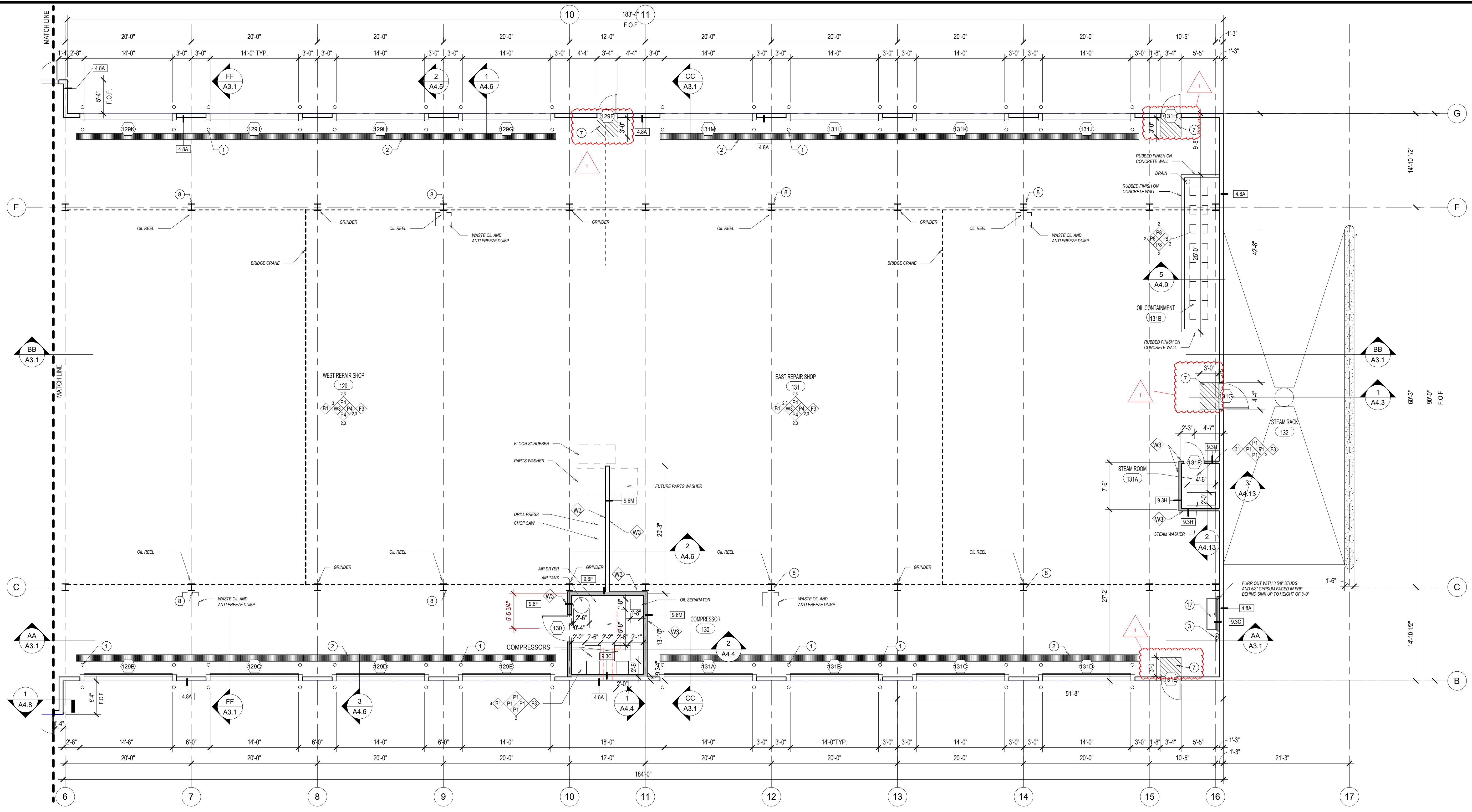
nbw architects p.a.
 ARCHITECTURE PLANNING / INTERIORS
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 990 JOHN RIBBINS PARKWAY P.O. BOX 2212 - IRVING FALLS, IOWA 50249-2212
 (515) 268-5222 (515) 268-5222 FAX (515) 268-5222

A NEW BUILDING FOR:
KENWORTH SALES COMPANY INC.
 1750 SOUTH 1350 WEST
 WEST HAVEN, UTAH
 PROJECT NO. 16066
 DATE: NOVEMBER 2019
 DRAWN BY: NRH
 CHECKED BY: GLN
 DRAWING NO. AD #1

SHEET TITLE: MAIN FLOOR - PART 2 ANNOTATION AND DIMENSION PLAN

| REVISIONS | DATE |
|---------------|----------|
| 1 ADDENDUM #1 | 12-16-19 |

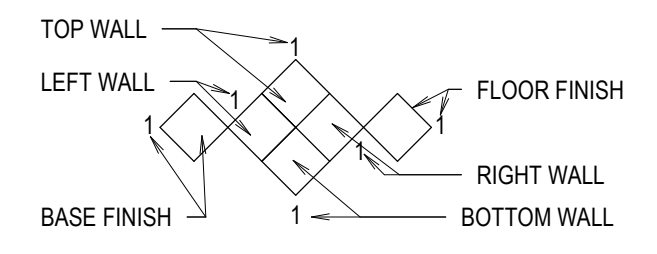
PROJECT NO. 16066
 DATE: NOVEMBER 2019
 DRAWN BY: NRH
 CHECKED BY: GLN
 DRAWING NO. AD #1
A1.3
 REVISED 12-16-19



MAIN FLOOR - PART 2
 SCALE: 1/8" = 1'-0"

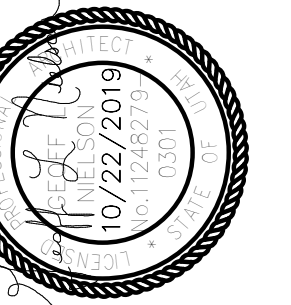
| OWNER FURNISHED AND PROVIDED EQUIPMENT | |
|--|-----------------------------|
| STEAM WASHER | AIR DRYER |
| GRINDER | PARTS WASHER |
| JIB CRANE | HYDRAULIC PRESS |
| FLOOR LIFT AND CONTROL | DRILL PRESS |
| BRIDGE CRANE | OIL REEL |
| FLY-WHEEL GRINDER | SOLVENT TANK |
| HOSE CRIMPER | CHOP SAW |
| COMPRESSOR (2) | OIL TANK |
| AIR TANK | WASTE OIL & ANTIFREEZE DROP |
| OIL SEPARATOR | |

| FINISH SCHEDULE KEY | | |
|---|---|--|
| WALL FINISH | BASE FINISH | NOTES: |
| P1 WHITE - PAINTED, TEXTURED GYP. BOARD AC GRADE PLYWOOD - PAINTED | B1 4" COVED RUBBER | 1. ONE WALL IN ROOM TO RECEIVE ACCENT COLOR - VERIFY LOCATION WITH OWNER |
| P2 GREY - PAINTED CMU WAINSCOT WITH "P1" ABOVE 8'-0" | B2 6" CERAMIC TILE | 2. EPOXY PAINT TO BE USED |
| P3 GREY - PAINTED CMU WAINSCOT WITH "P1" ABOVE 8'-0" | B3 NO BASE | 3. COLUMNS IN ROOM - ACCENT PAINT UP TO 8'-0". FIELD PAINT 8'-0" TO UNDERSIDE OF DECK. |
| P4 GREY - PAINTED CMU WAINSCOT - I.M.P. ABOVE 8'-0" | | 4. "B1" BASE PROVIDED ALONG NON-CMU WALLS, "B3" ALONG CMU WALLS. |
| P5 GREY - PAINTED CMU | FLOOR FINISH | |
| P6 GREY - PAINTED AC GRADE PLYWOOD UP TO 8'-0" | F1 SEALED CONCRETE | |
| P7 4'-0" GREY COLOR FRP OVER GYP. BOARD - "P1" ABOVE 8'-0" | F2 *STAINED CONCRETE | |
| P8 ASPHALT EMULSION ON CONCRETE OR CMU | F3 *BURNISHED CONCRETE | |
| W1 WHITE COLOR FRP OVER GYP. BOARD | | |
| W2 GREY COLOR FRP OVER CD GRADE WOOD SHEATHING TO 8'-0" | FLOOR FINISH | |
| W3 "P1" ABOVE 8'-0" | F*2 - CONTRACTOR SHALL POWER TROWEL BUT LEAVE CONCRETE OPEN - OWNER TO FINISH | |
| T1 CERAMIC TILE - SEE ELEVATIONS | F*3 - CONTRACTOR SHALL POWER TROWEL TO BURNISH - OWNER TO FINISH | |



| GENERAL NOTES | GENERAL NOTES CONT. | KEYNOTES | KEYNOTES CONT. |
|---|--|---|---|
| 1. CONTRACTOR SHALL RESOLVE ALL DIMENSIONAL OR OTHER DISCREPANCIES DURING LAYOUT WITH ARCHITECT, PRIOR TO BEGINNING CONSTRUCTION. | 7. USE ISOLATION TAPE BETWEEN ALL DIS-SIMILAR METALS. | ① STEEL BOLLARD WITH REMOVABLE COVER - TYP. - SEE DOOR DETAIL FOR SPACING OR DETAIL. H / SD1.2 | ⑩ NOT USED |
| 2. ALL WALL MOUNTED CASEWORK, MILLWORK, CRAB BARS, HARDWARE, EQUIPMENT, ETC. SHALL BE ANCHORED TO WOOD BLOCKING BETWEEN STUDS, U.N.O. COORDINATE BLOCKING PRIOR TO WALL FINISHES, INCLUDING OWNER FURNISHED ITEMS. | 8. SHADED WALLS TO RECEIVE INSULATION. SEE SPECIFICATIONS | ② TRENCH DRAIN - SEE MECHANICAL | ⑪ 6" X 6" X 60" ALUMINUM DIAMOND PLATE WALL GUARD AT CORNERS. |
| 3. CAULK ALL INTERIOR AND EXTERIOR JOINTS, U.N.O. - SEE SPEC. | 9. F.O.F. INDICATES FACE OF FOUNDATION DIMENSION - INTERIOR WALLS ARE DIMENSIONED TO THE CENTER. | ③ EYE WASH STATION - SEE MECHANICAL | ⑫ NOT USED |
| 4. ALL WORK TO BE IN ACCORDANCE WITH ADOPTED CODES & ACCESSIBILITY REQUIREMENTS. | 10. SEE REFLECTED CEILING PLAN FOR SOUND BATT INSULATION REQUIREMENTS AND LOCATIONS | ④ GAS METER - SEE MECHANICAL/CIVIL | ⑬ ROOF ACCESS LADDER A / A8.1 & B / A8.1 |
| 5. EXTEND NON-INSULATED STUD WALLS & GYP. BOARD 12" MIN. ABOVE SUSPENDED CEILING. U.N.O. | 11. FRP TO WRAP DOOR OPENINGS AND TERMINATE AT DOOR JAMBS | ⑤ 8'-0" TALL WALL, RUN ALTERNATING STUDS, 32" O.C. MAX. TO UNDERSIDE OF DECK OR ROOF JOISTS. SEE DETAIL FOR ATTACHMENT - A / A7.1 | ⑭ NOT USED |
| 6. ALL INSULATED INTERIOR WALLS TO EXTEND TO UNDERSIDE OF SECOND FLOOR METAL DECK OR UNDERSIDE OF ROOF METAL DECK FOR SPOON PRIVACY. SEE LOCATIONS ON FLOOR PLANS - SHOWN AS SOLID SHADED WALLS ON FLOOR PLANS. SEE DETAIL 8 / A4.9 | | ⑥ ELECTRICAL EQUIPMENT - SEE ELECTRICAL | ⑮ 6" X (WALL WIDTH) 6" X 60" ALUMINUM DIAMOND PLATE WALL END GUARD. |
| | | ⑦ YELLOW PAINT STRIPING TO MATCH WIDTH OF DOOR OPENING | ⑯ NOT USED |
| | | ⑧ FIRE EXTINGUISHER - BRACKET MOUNTED IN REPAIR SHOPS AND PARTS WAREHOUSE. SEMI-RECESSED CABINET IN RETAIL OFFICE AREAS. | ⑰ HAND WASH STATION - SEE MECHANICAL |
| | | ⑨ 8'-0" TALL MU WALL - CMU PATTERN TO MATCH MAIN BUILDING PATTERN | |

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A NEW BUILDING FOR:
KENWORTH SALES COMPANY INC.
 1750 SOUTH 1350 WEST
 WEST HAVEN, UTAH
 BUILDING ELEVATIONS

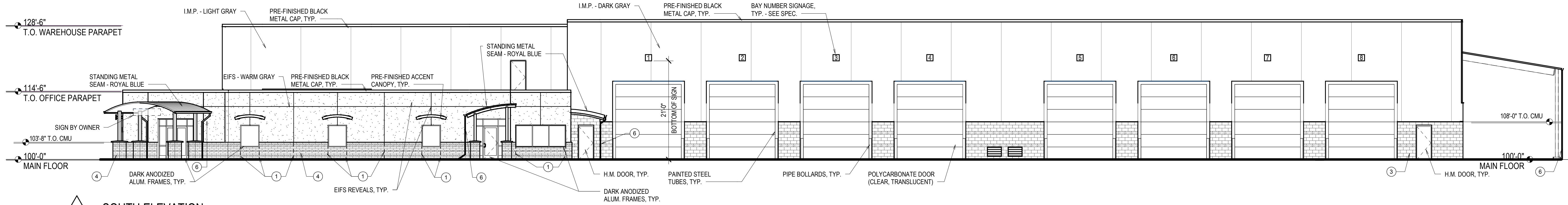
PROJECT:
 SHEET TITLE:

| REVISIONS | |
|-----------|----------------------|
| 1 | ADDENDUM #1 12-16-19 |

PROJECT NO.
 16066
 DATE:
 NOVEMBER 2019
 DRAWN BY:
 NRH
 CHECKED BY:
 GLN

DRAWING NO. AD #1

A2.1
 REVISED 12-16-19



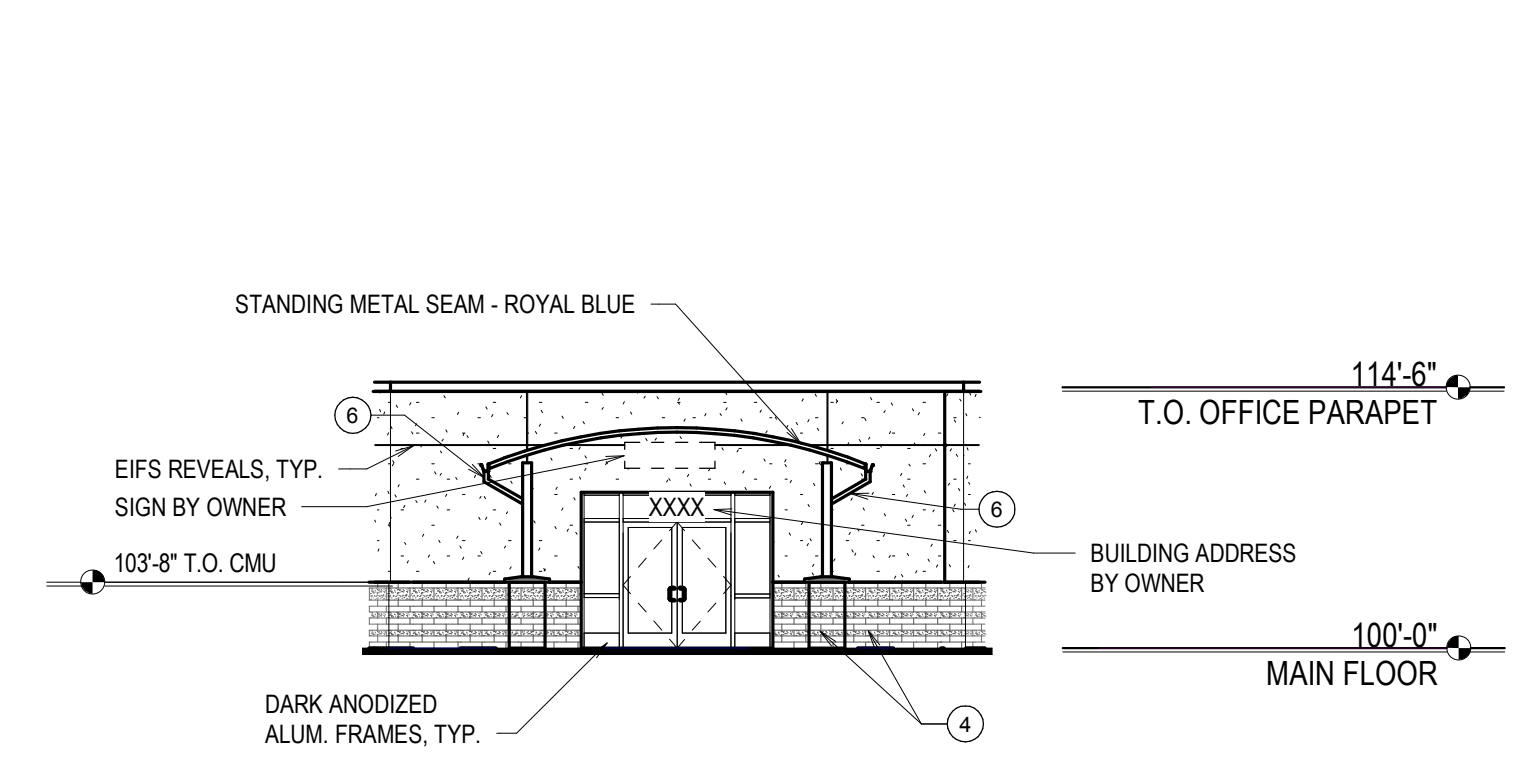
1 SOUTH ELEVATION
 A2.1 SCALE: 3/32" = 1'-0"

GENERAL NOTES

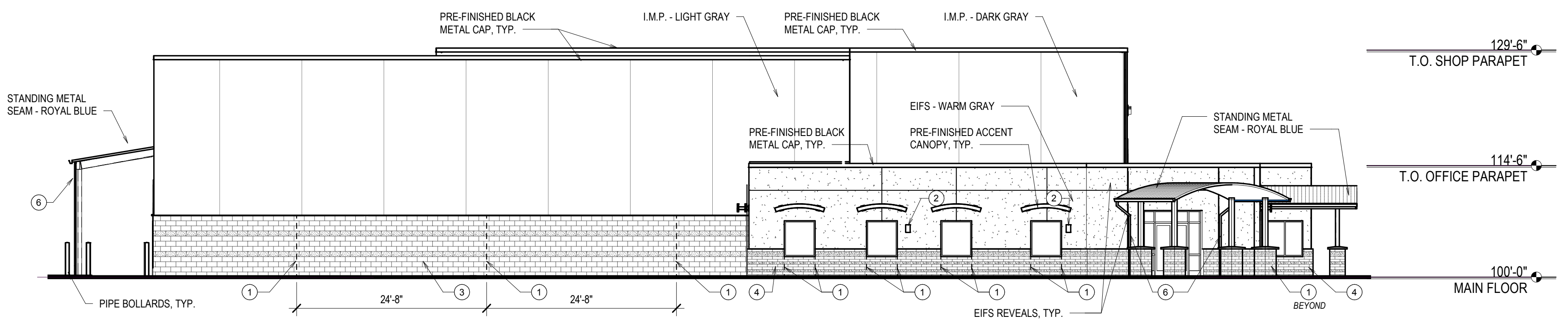
- ALL UN-FINISHED EXPOSED METAL TO BE PAINTED - COLOR BY ARCHITECT.
- FINAL COLORS TO BE COORDINATED WITH ARCHITECT PRIOR TO ORDERING.

KEYNOTES

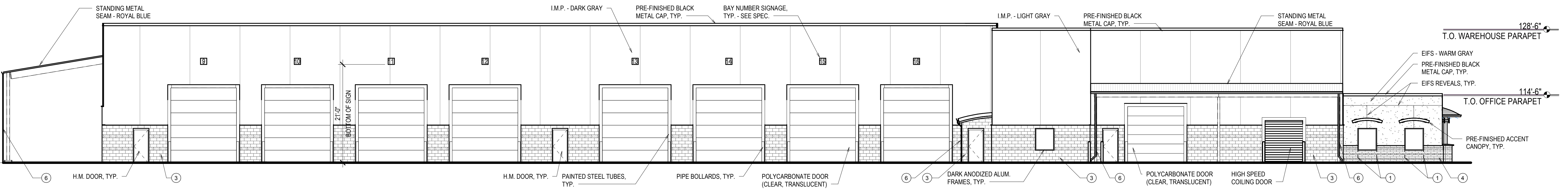
- MASONRY CONTROL JOINT
- WALL MOUNTED HANDICAP SIGN. SIGN TO BE PER CITY STANDARDS
- 8'-0" CMU VENEER - SEE A / A2.1
- 3'-8" CMU VENEER - SEE B / A2.1
- COMMON FACE CMU - PAINTED BLACK WITH EPOXY PAINT
- PRE-FINISHED METAL DOWNSPOUT



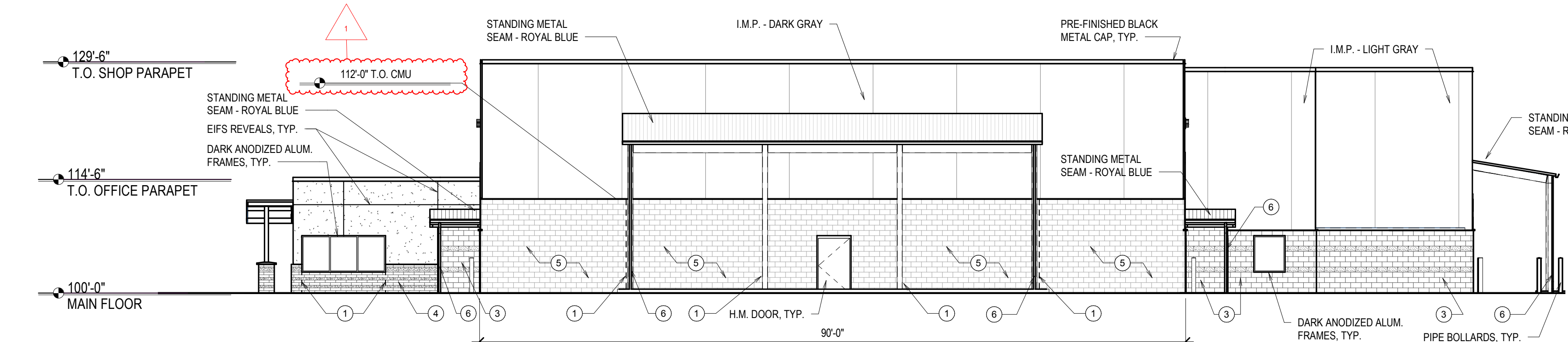
5 ENTRY ELEVATION
 A2.1 SCALE: 3/32" = 1'-0"



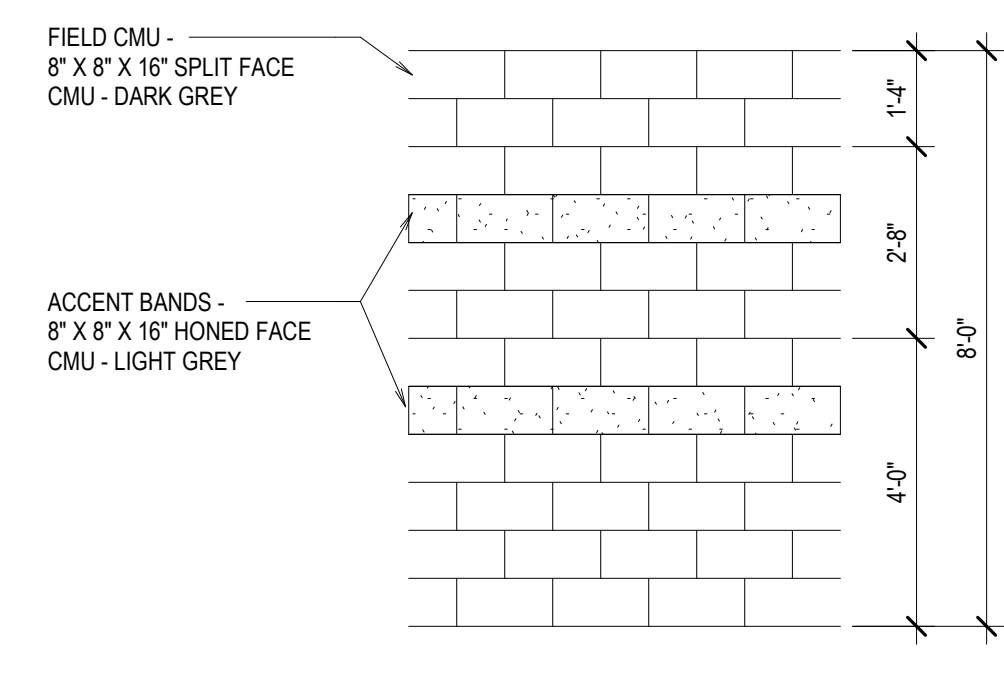
3 WEST ELEVATION
 A2.1 SCALE: 3/32" = 1'-0"



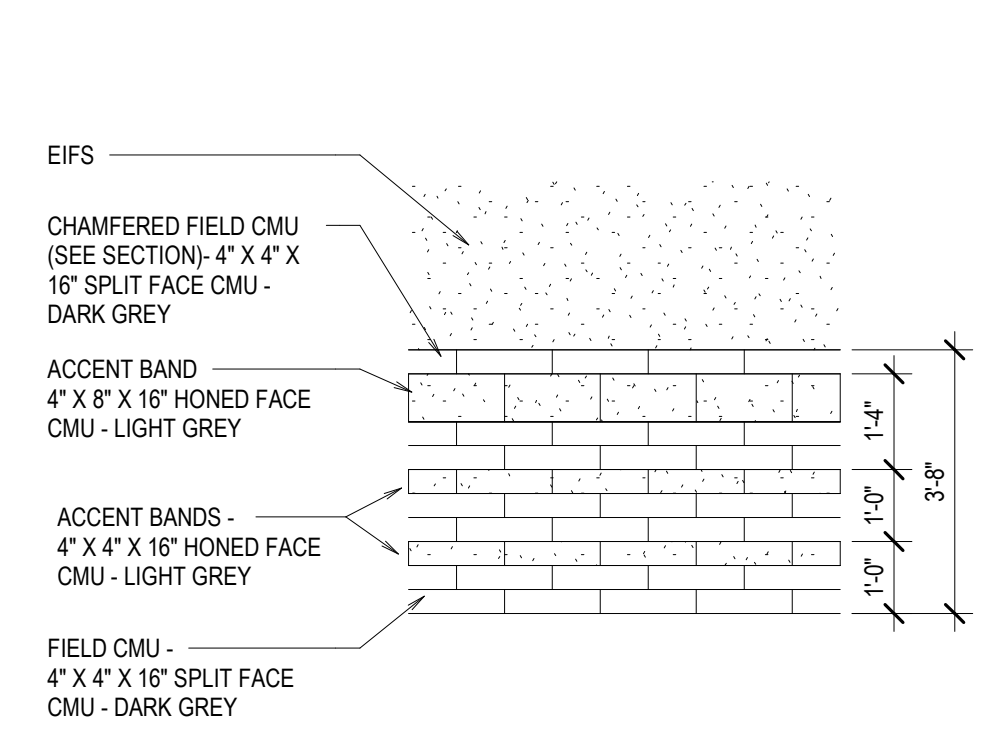
2 NORTH ELEVATION
 A2.1 SCALE: 3/32" = 1'-0"



4 EAST ELEVATION
 A2.1 SCALE: 3/32" = 1'-0"



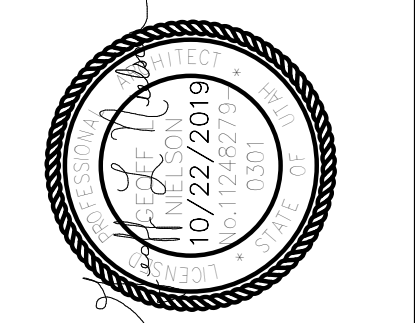
A 8'-0" CMU WAINSCOT
 A2.1 SCALE: 3/8" = 1'-0"



B 3'-8" CMU WAINSCOT
 A2.1 SCALE: 3/8" = 1'-0"

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| KEYNOTE LEGEND | |
|----------------|---|
| 301 | REINFORCED CONCRETE SLAB - SEE STRUCTURAL |
| 304 | FOOTING - SEE STRUCTURAL |
| 502 | STEEL COLUMN - SEE STRUCTURAL - PAINTED WHERE EXPOSED |
| 503 | STEEL JOIST - SEE STRUCTURAL - PAINTED WHERE EXPOSED |
| 504 | STEEL DECK - SEE STRUCTURAL - PAINTED WHERE EXPOSED |
| 632 | 1/2" SHEATHING |
| 701 | BITUMINOUS DAMP PROOFING |
| 704 | VAPOR BARRIER |
| 712 | PRE-FINISHED CONT. METAL CAP FLASHING |
| 808 | STOREFRONT SYSTEM - SEE SCHEDULE |



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A NEW BUILDING FOR:
KENWORTH SALES COMPANY INC.
 1750 SOUTH 1350 WEST
 WEST HAVEN, UTAH

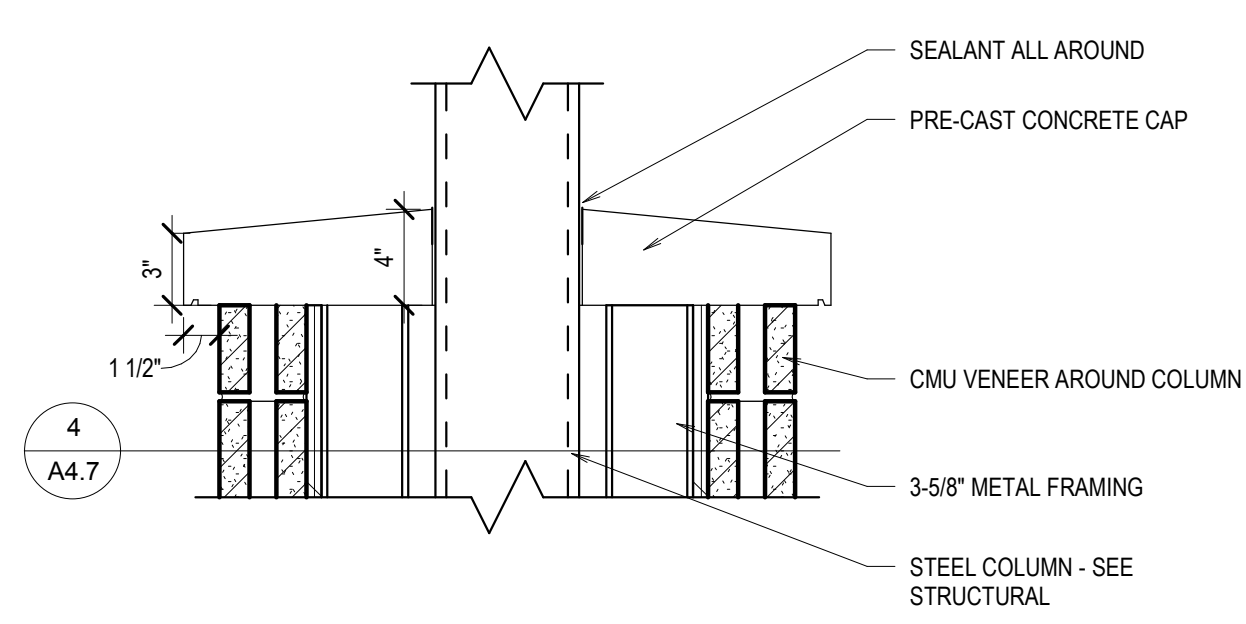
PROJECT:
 SHEET TITLE: WALL SECTIONS

| REVISIONS | |
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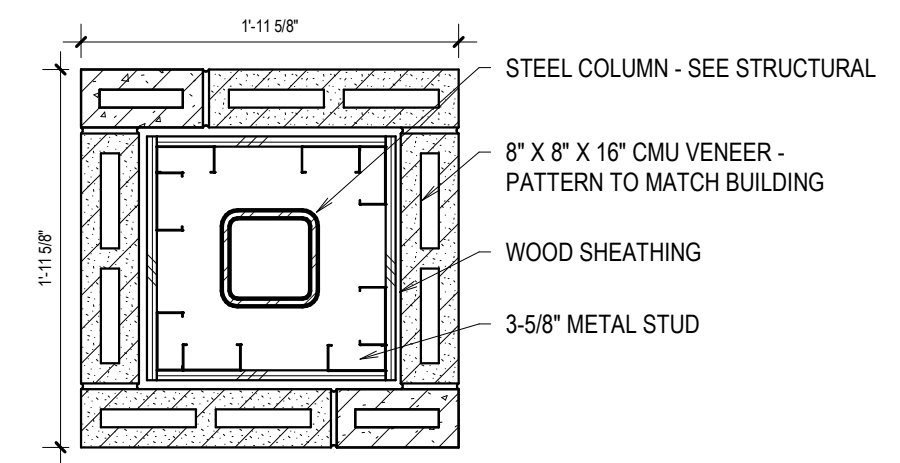
PROJECT NO. 16066
 DATE: NOVEMBER 2019
 DRAWN BY: BTH
 CHECKED BY: GLN

DRAWING NO.: AD #1

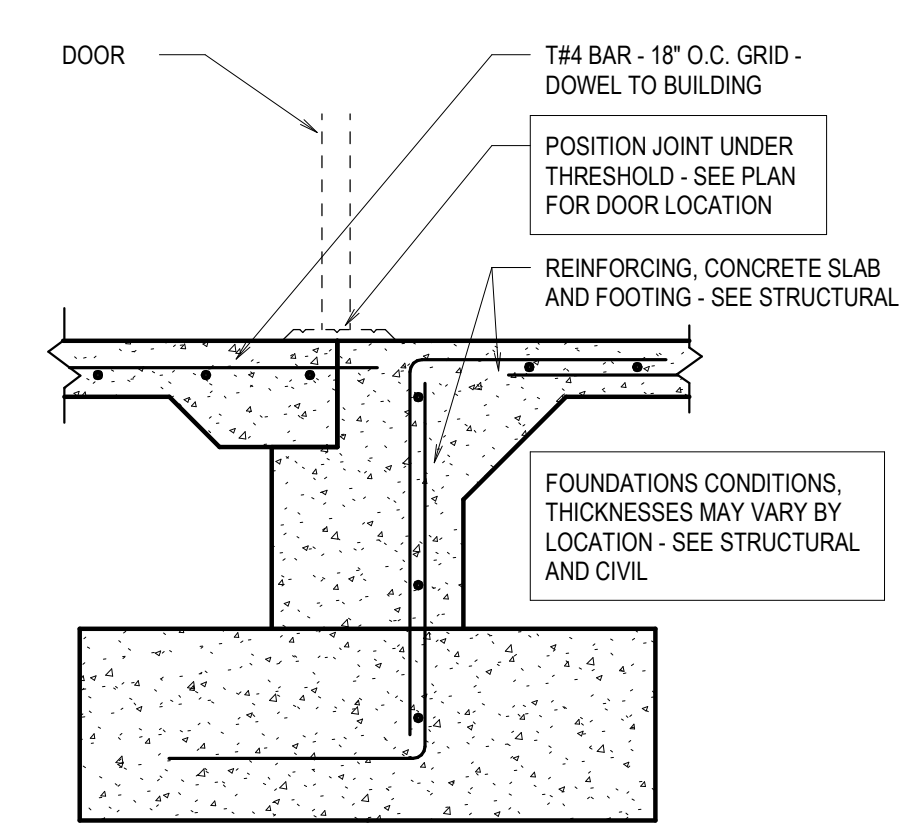
A4.7
 REVISED 12-16-19



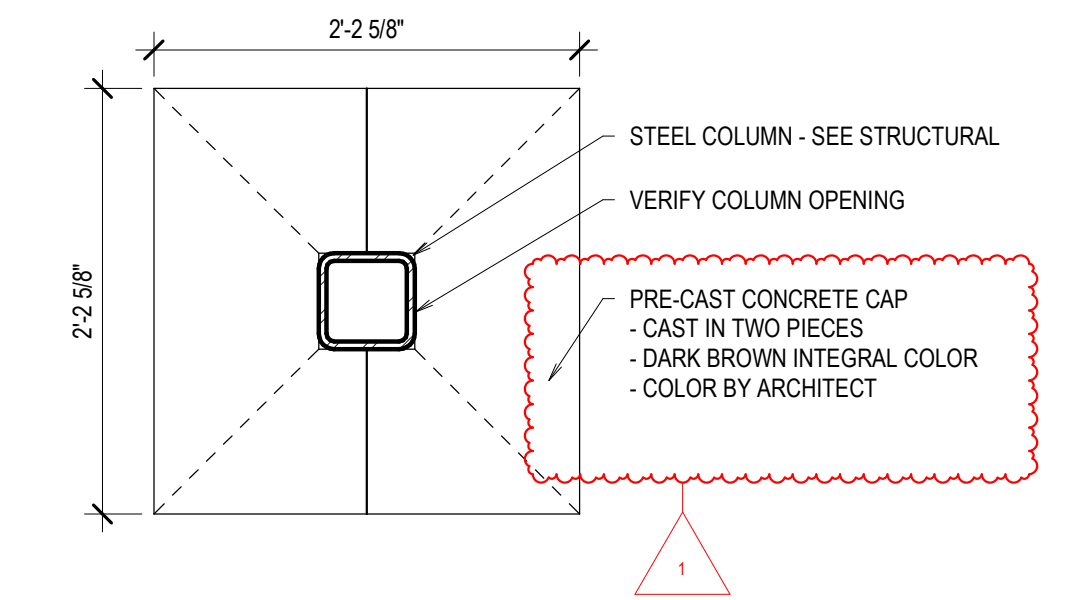
3 DETAIL
 SCALE: 1 1/2" = 1'-0"



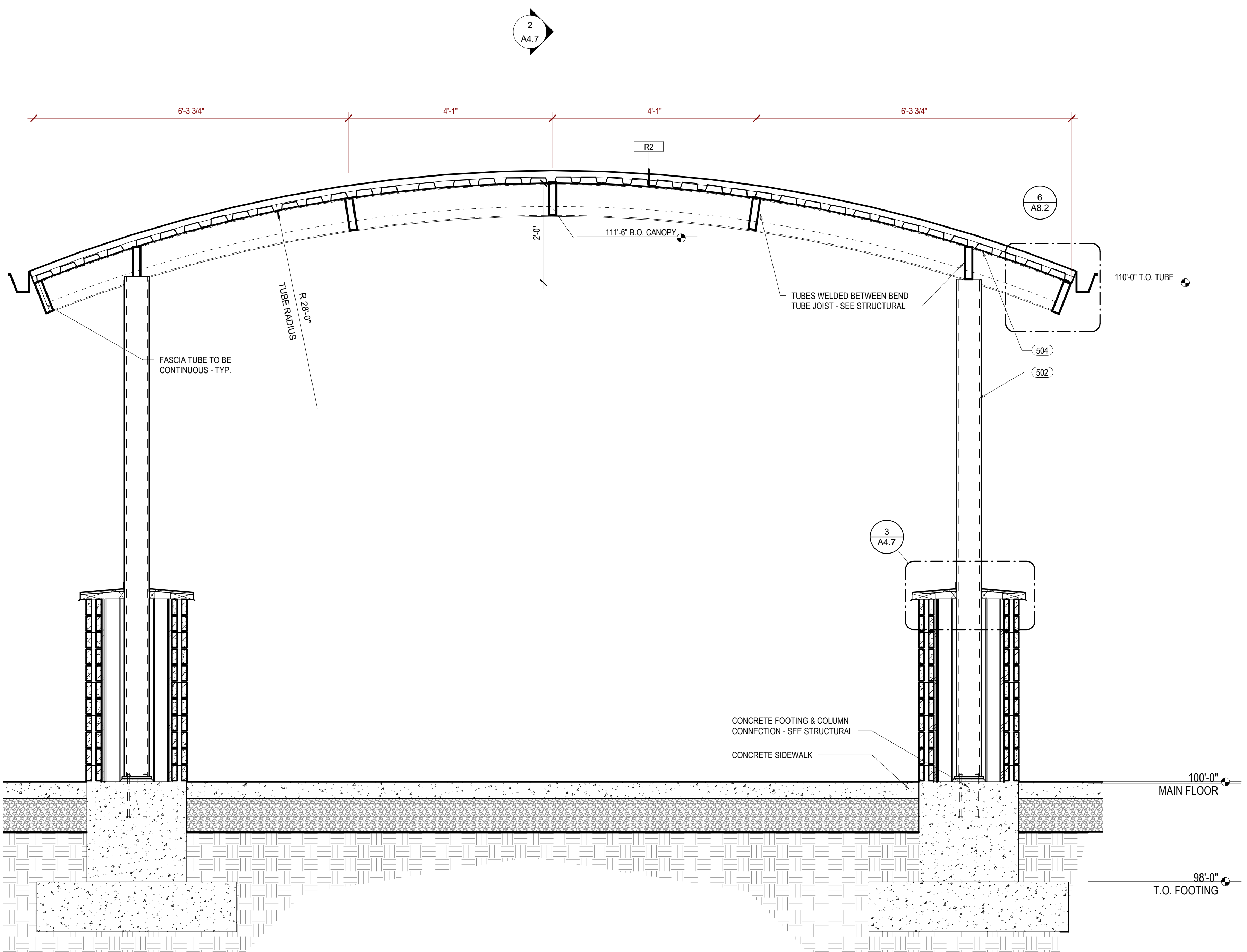
4 DETAIL
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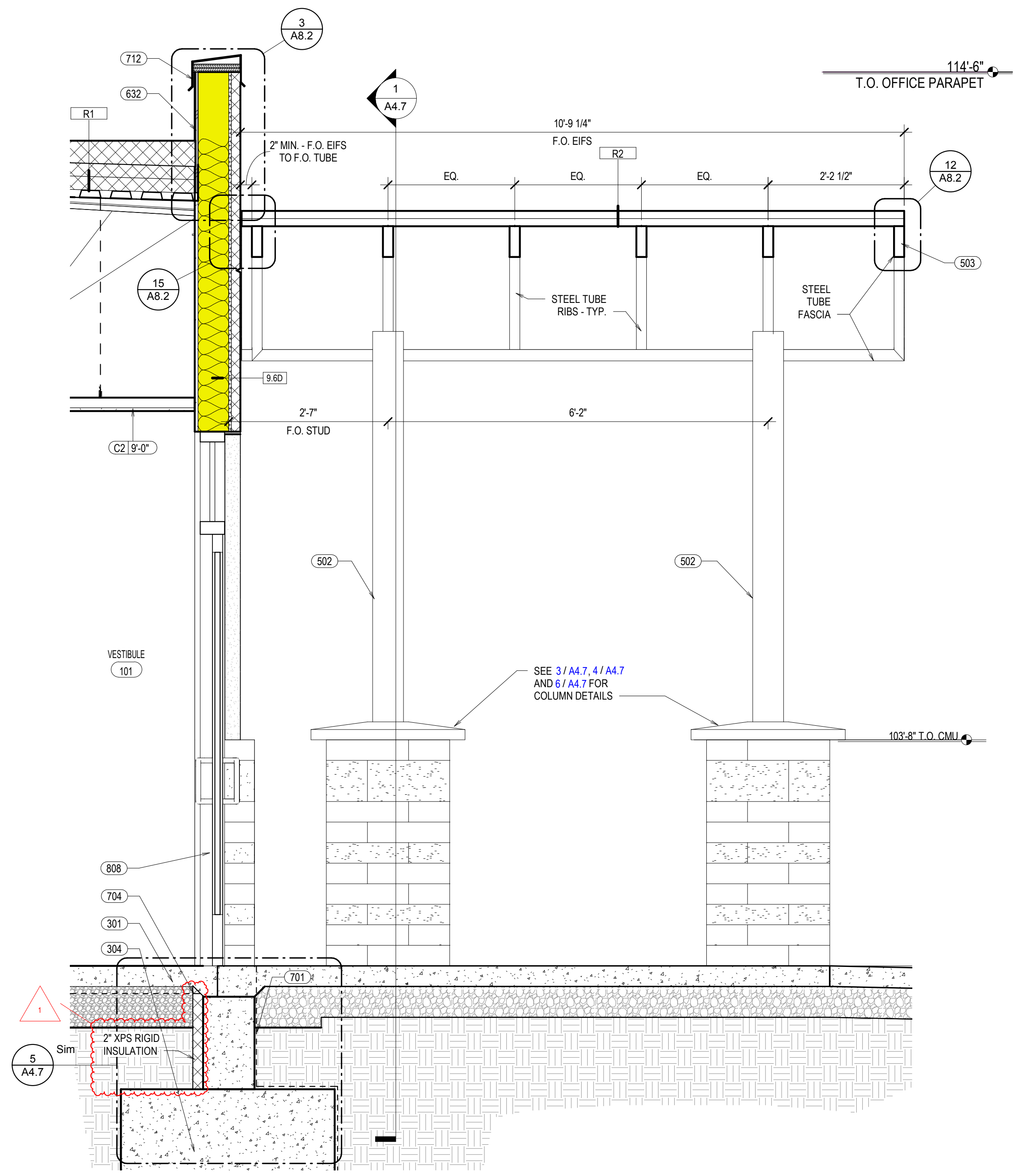
5 DETAIL
 SCALE: 1" = 1'-0"



6 DETAIL
 SCALE: 1" = 1'-0"



1 WALL SECTION
 SCALE: 3/4" = 1'-0"

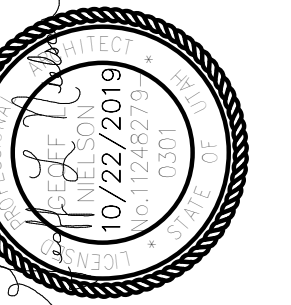


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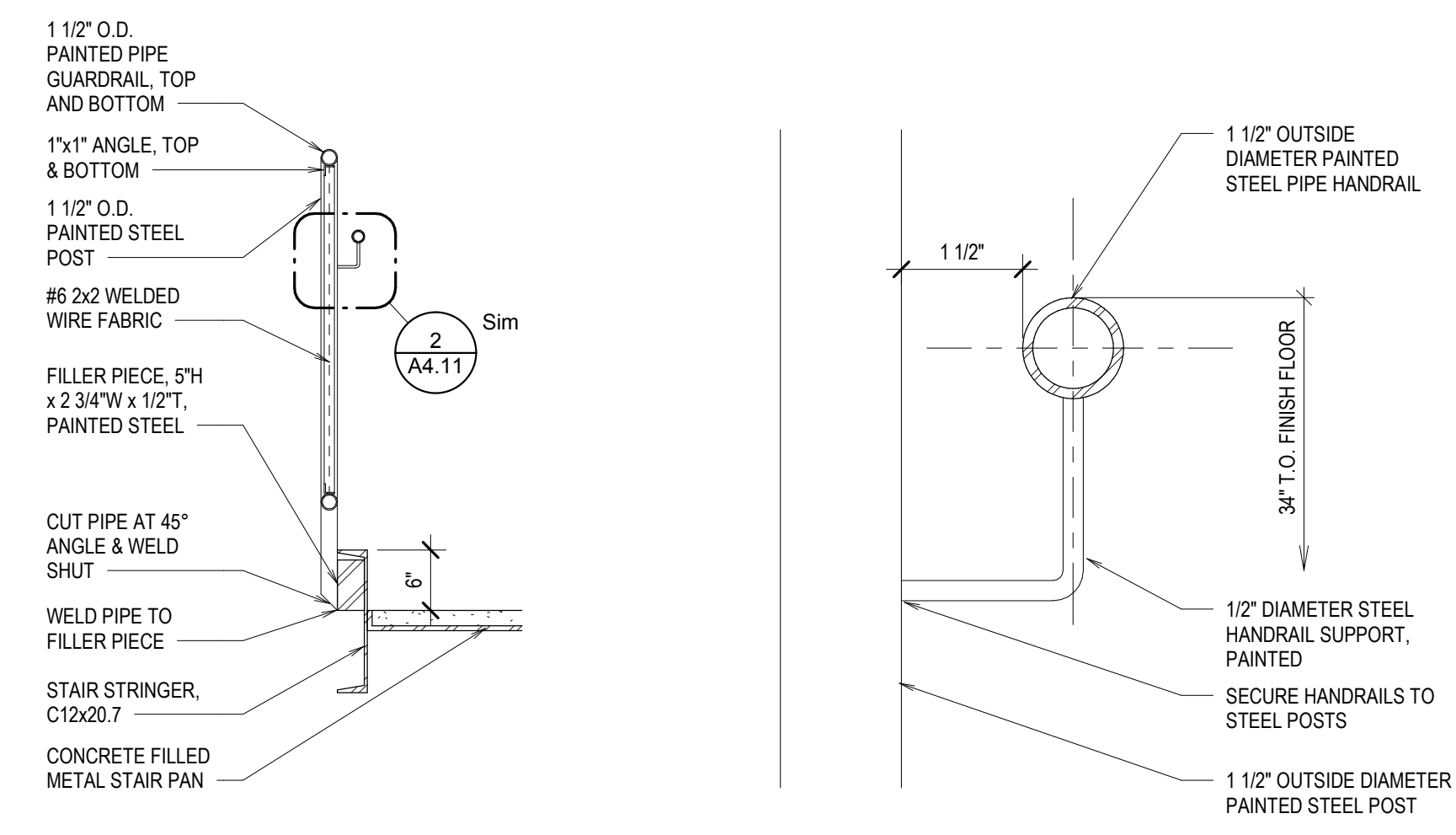
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GENERAL NOTES

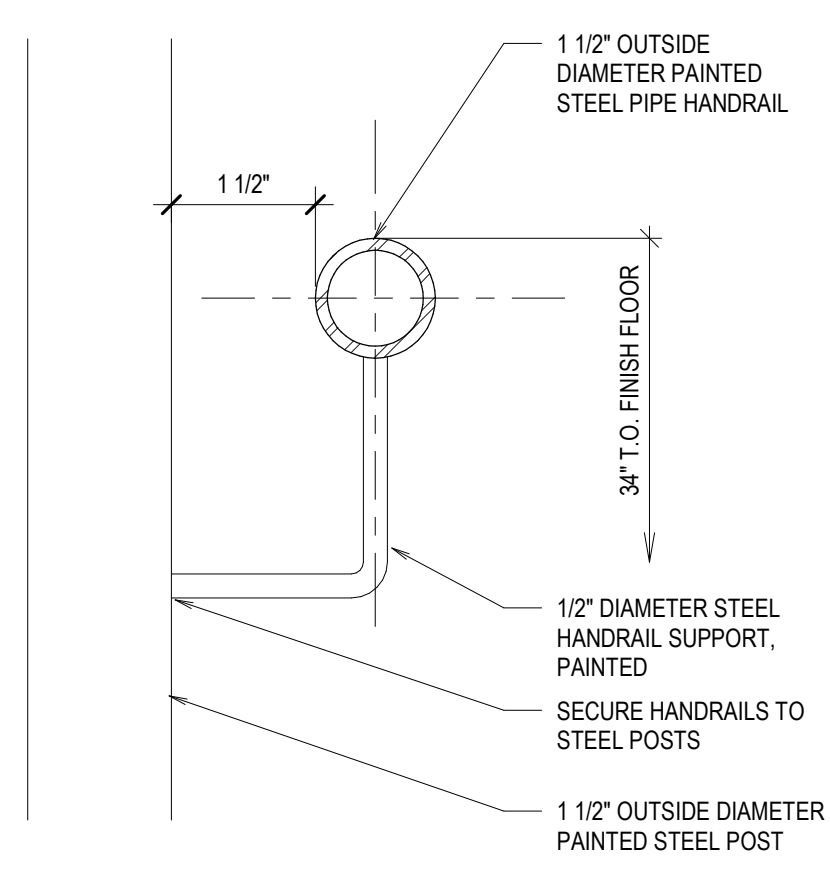
1. PAINT ALL METAL SURFACES
2. ALL STAIRS TO HAVE RUBBER TREADS & NOSING
3. ALL LANDINGS TO HAVE RUBBER SURFACE AND NOSING TO MATCH STAIRS



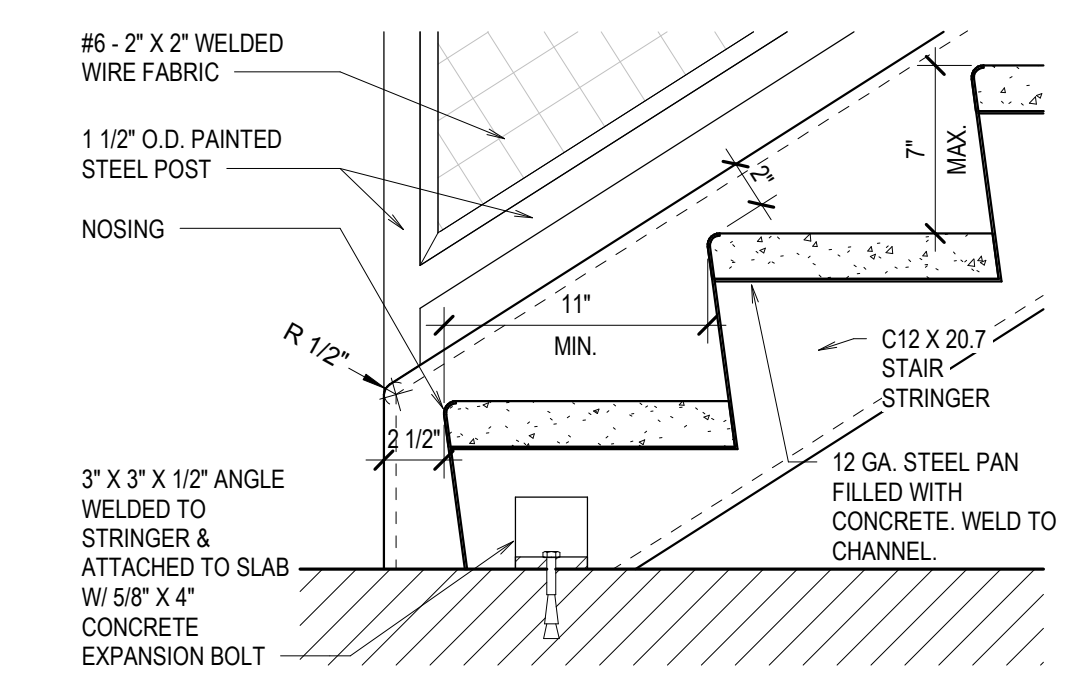
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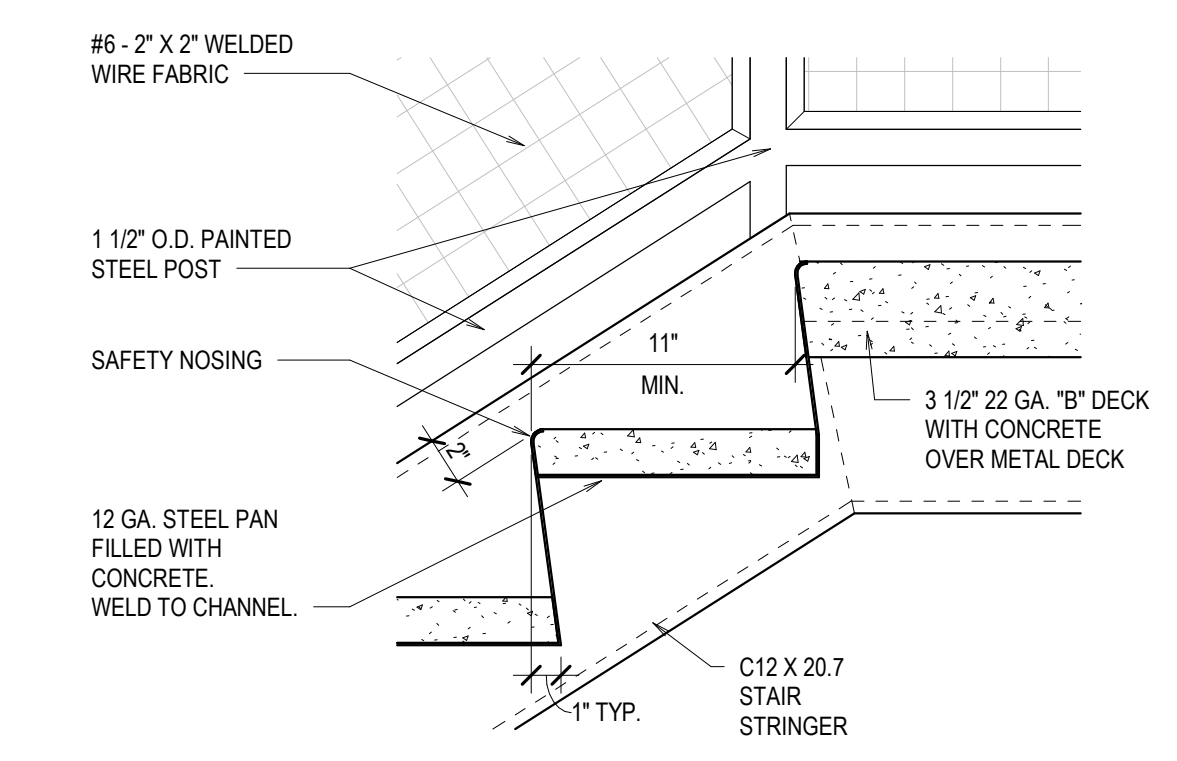
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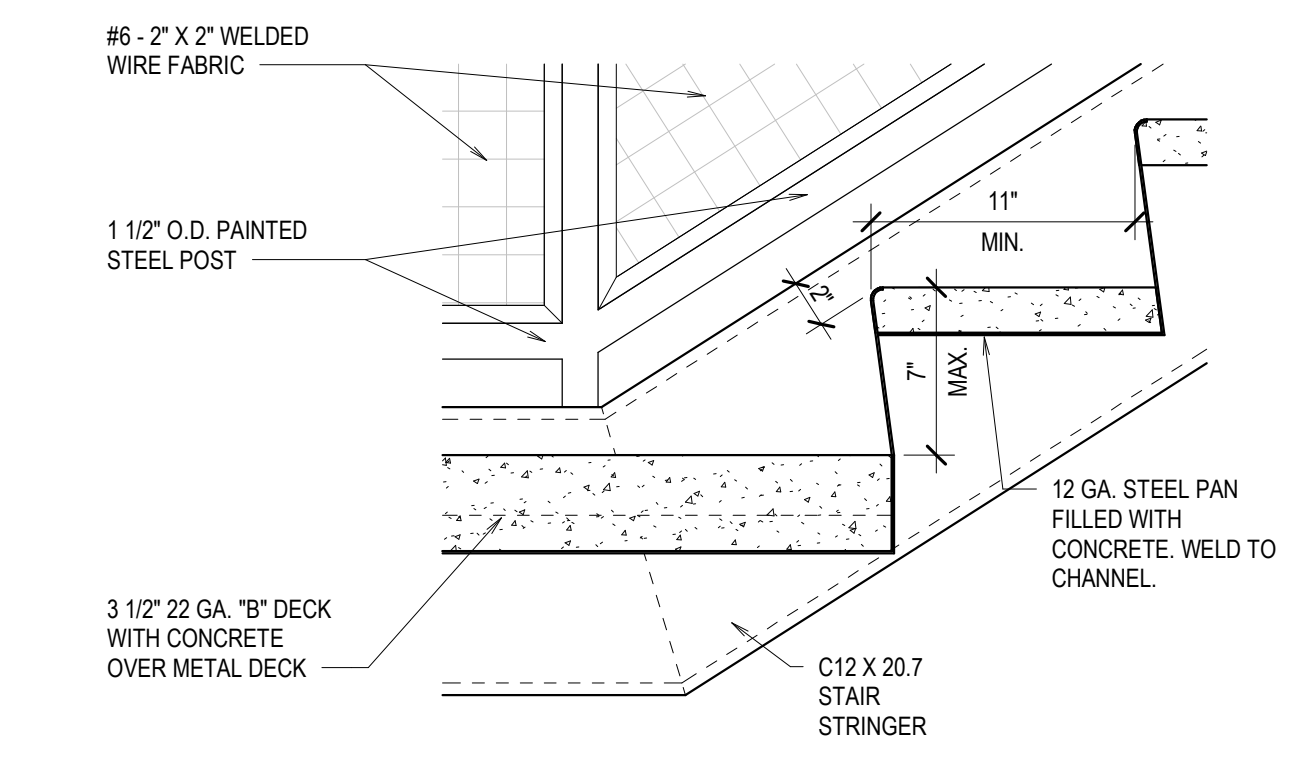
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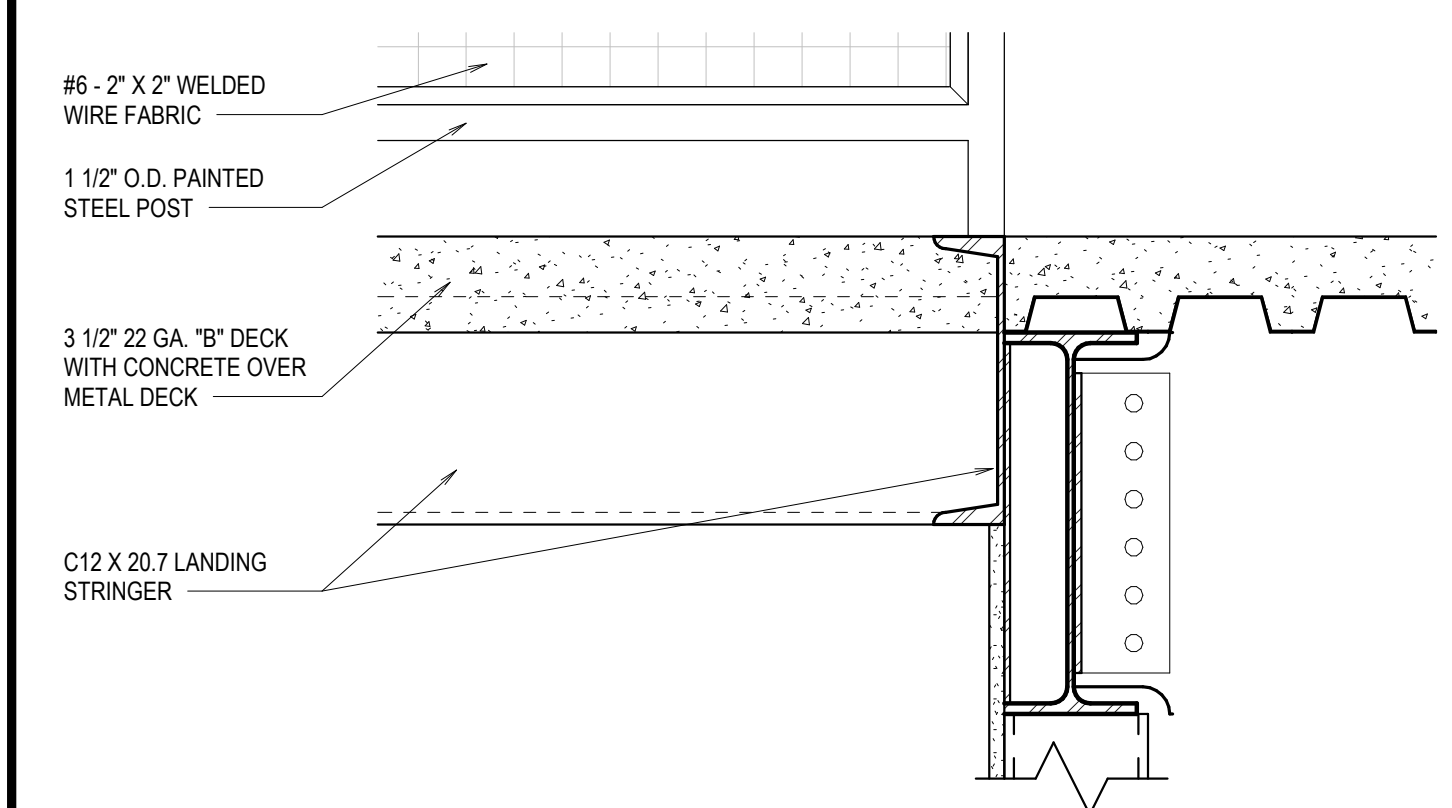
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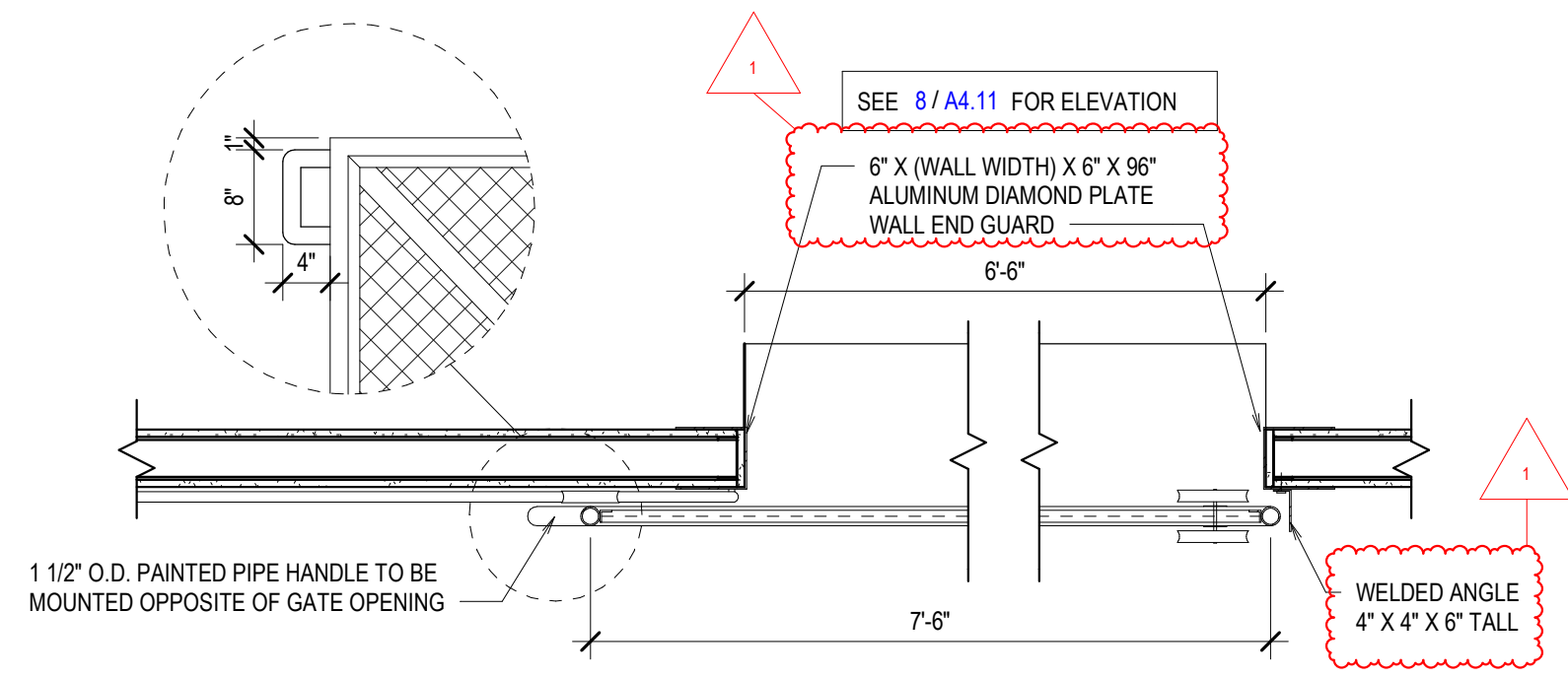
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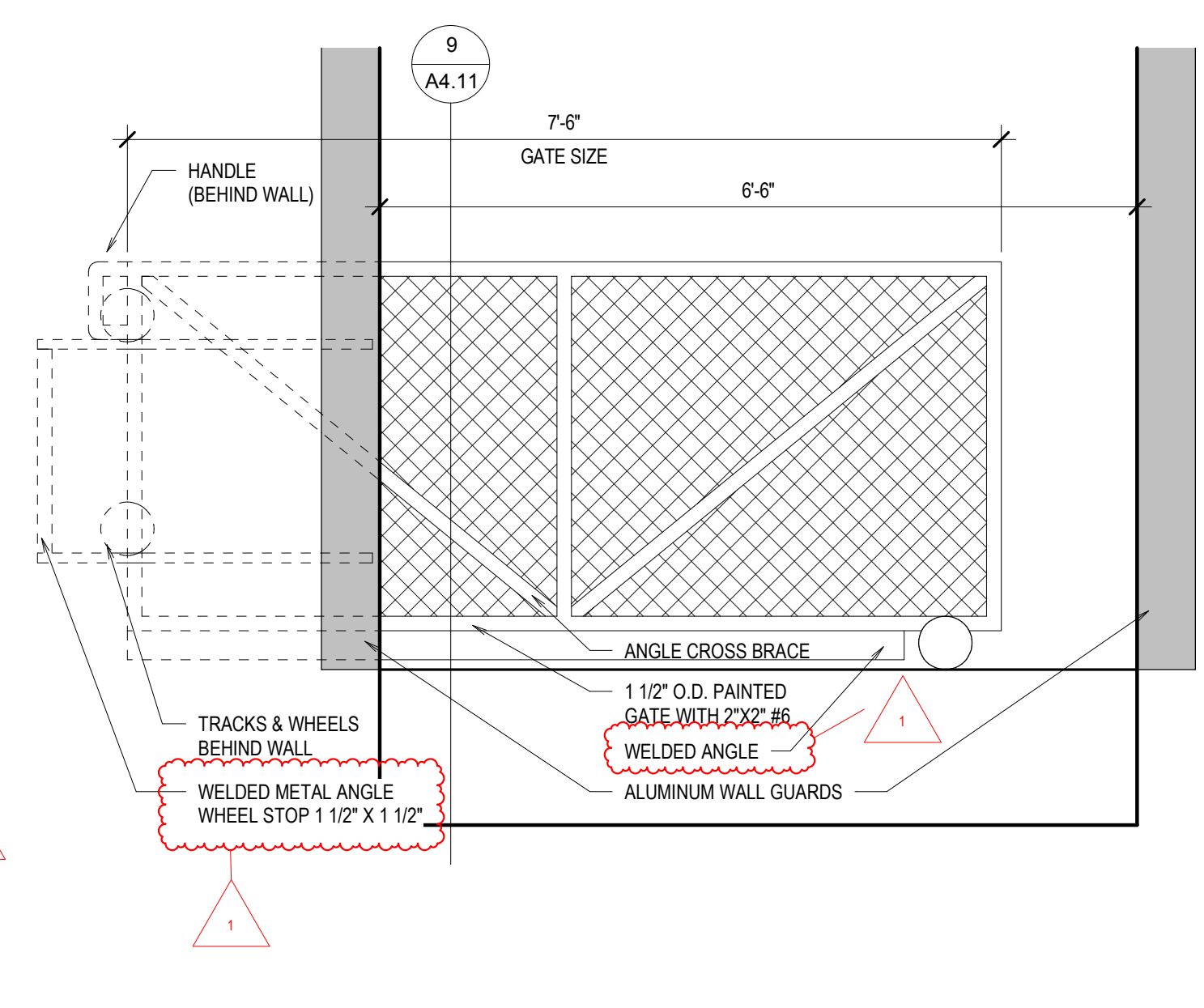
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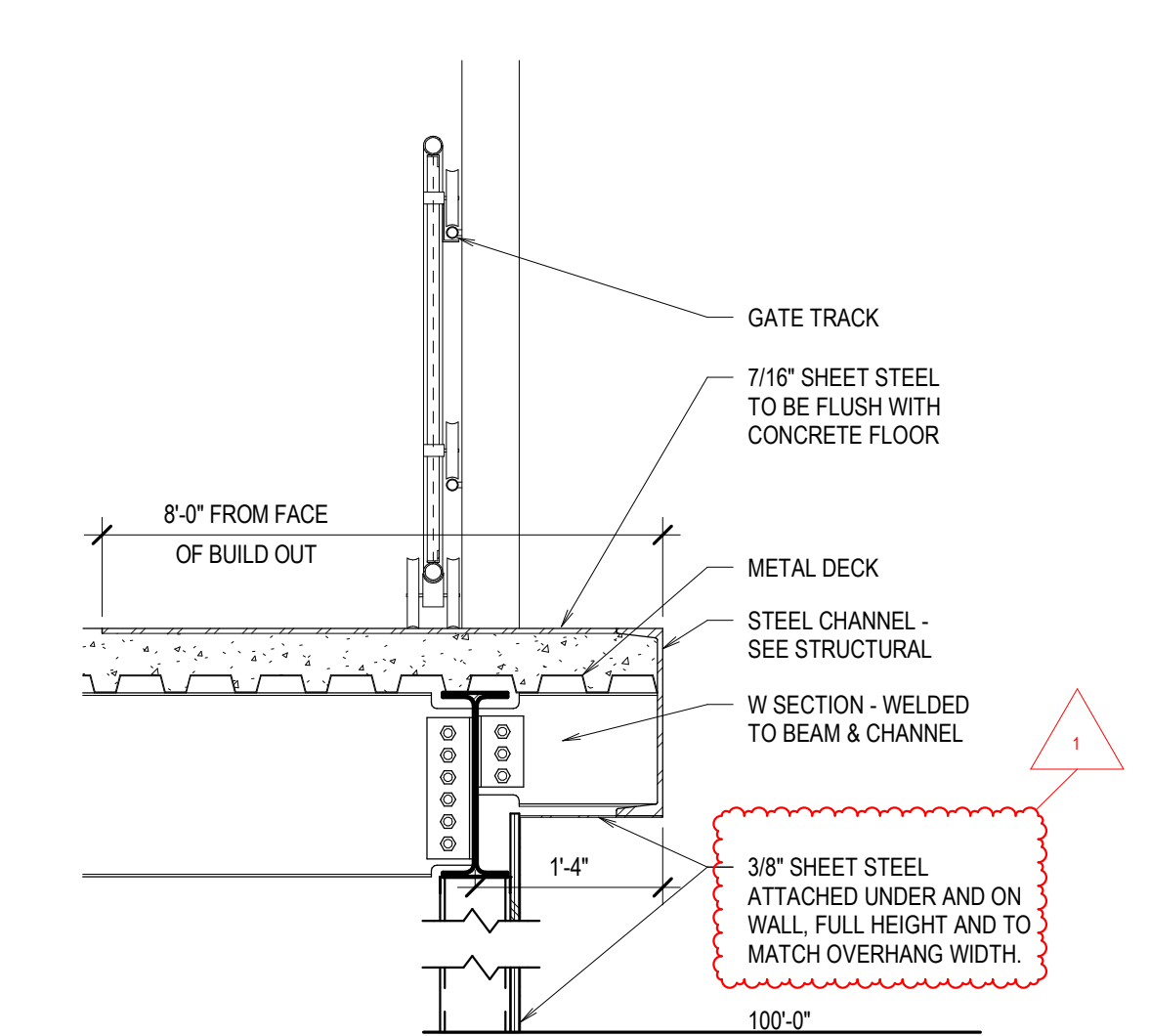
6 **DETAIL**
 SCALE: 1 1/2" = 1'-0"



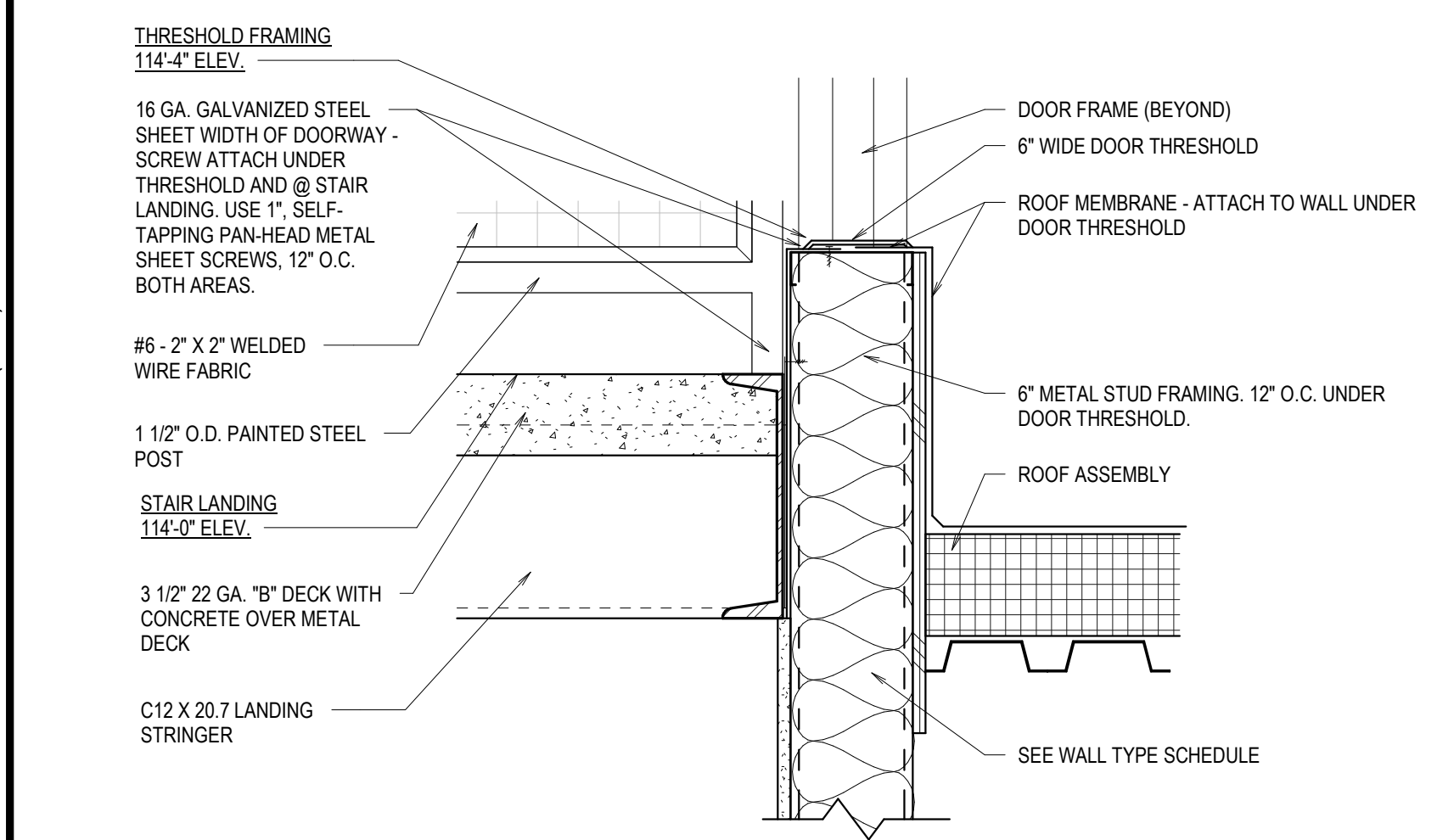
7 **DETAIL**
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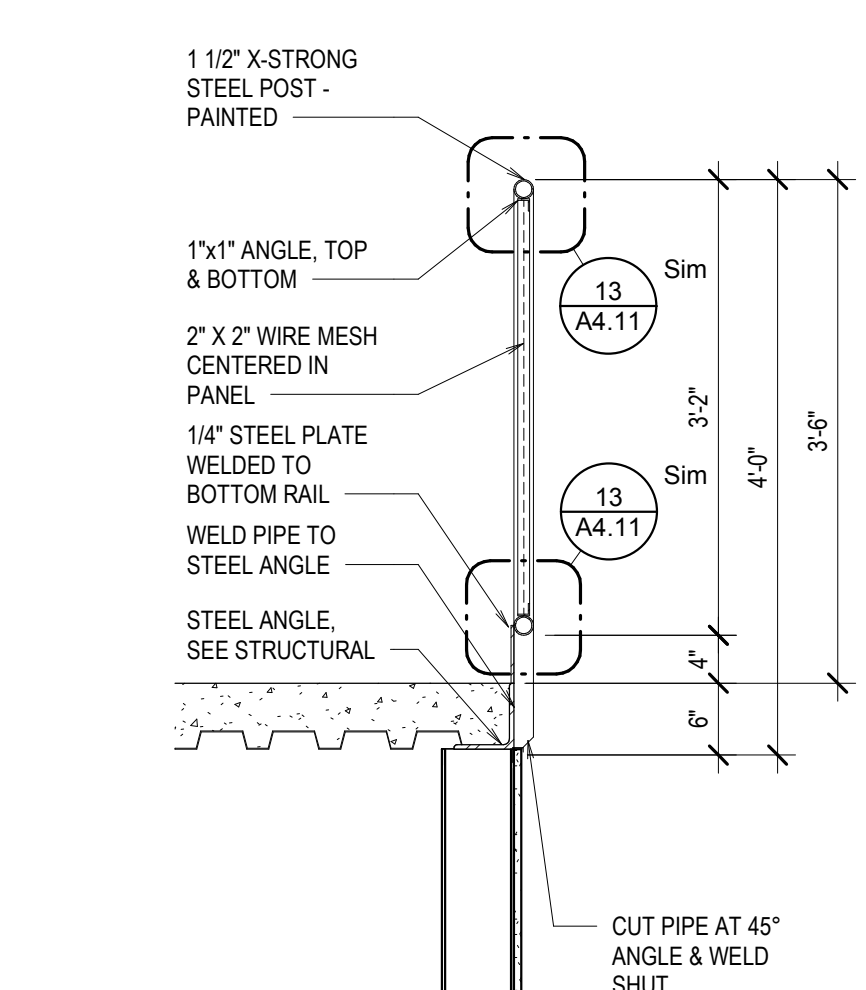
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 SCALE: 3/4" = 1'-0"



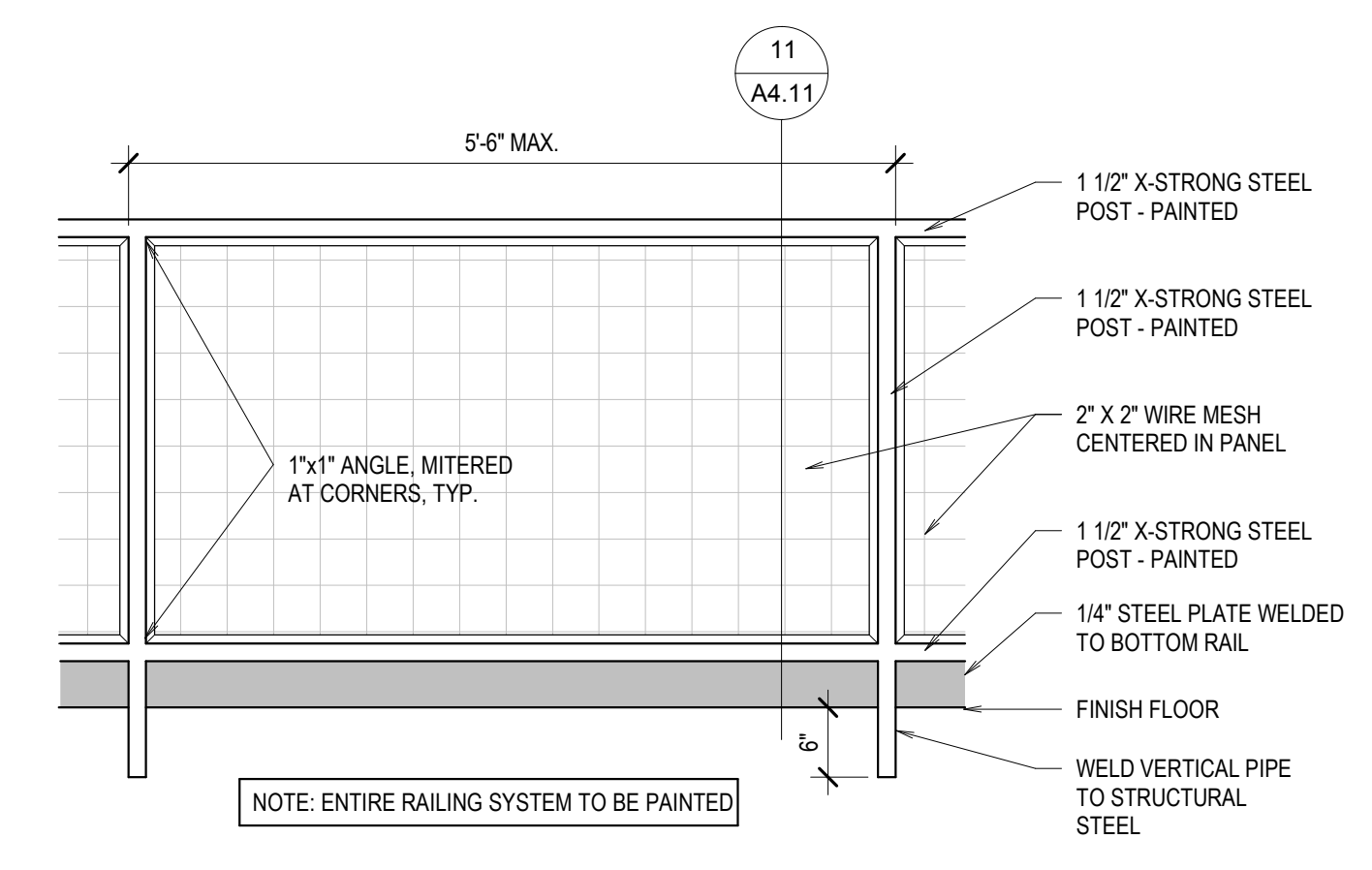
9 **DETAIL**
 SCALE: 3/4" = 1'-0"



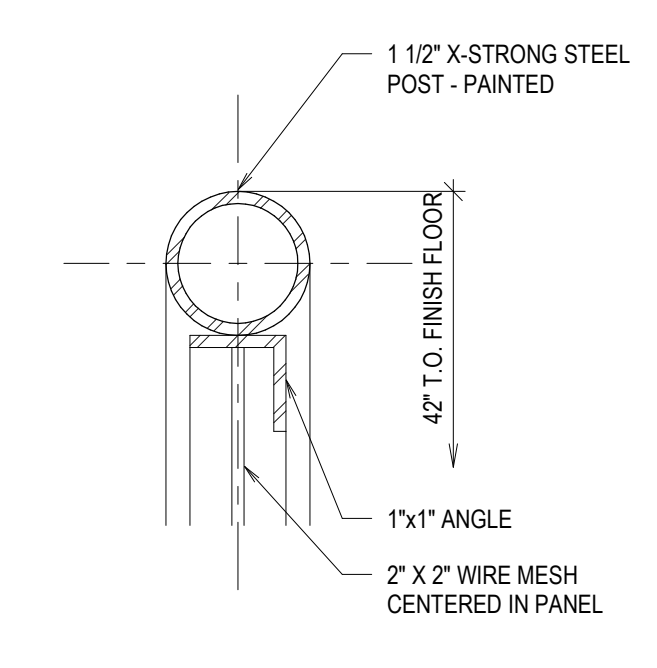
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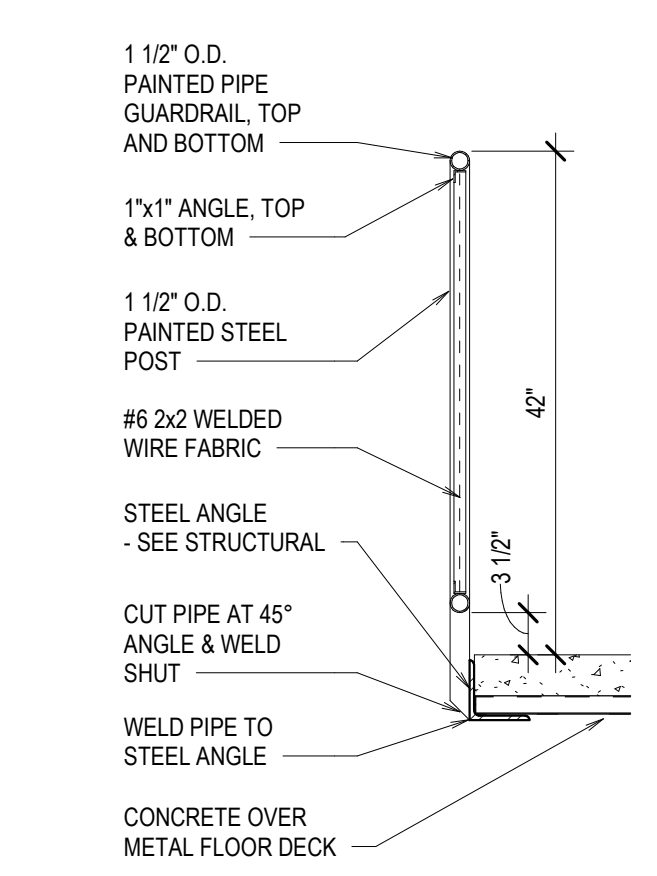
11 **DETAIL**
 SCALE: 3/4" = 1'-0"



12 **TYP. GUARDRAIL ELEVATION**
 SCALE: 3/4" = 1'-0"



13 **DETAIL**
 SCALE: 6" = 1'-0"



14 **DETAIL**
 SCALE: 3/4" = 1'-0"

A NEW BUILDING FOR:
KENWORTH SALES COMPANY INC.
 1750 SOUTH 1350 WEST
 WEST HAVEN, UTAH

VERTICAL CIRCULATION DETAILS

PROJECT:
 SHEET TITLE:

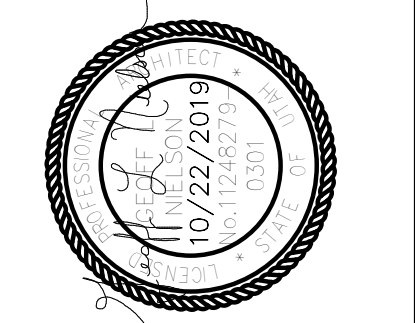
| REVISIONS | DATE |
|---------------|----------|
| 1 ADDENDUM #1 | 12-16-19 |

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 DATE: NOVEMBER 2019
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A4.11
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KENWORTH SALES COMPANY INC.
 1750 SOUTH 1350 WEST
 WEST HAVEN, UTAH

PROJECT:
 SHEET TITLE: WALL SECTIONS

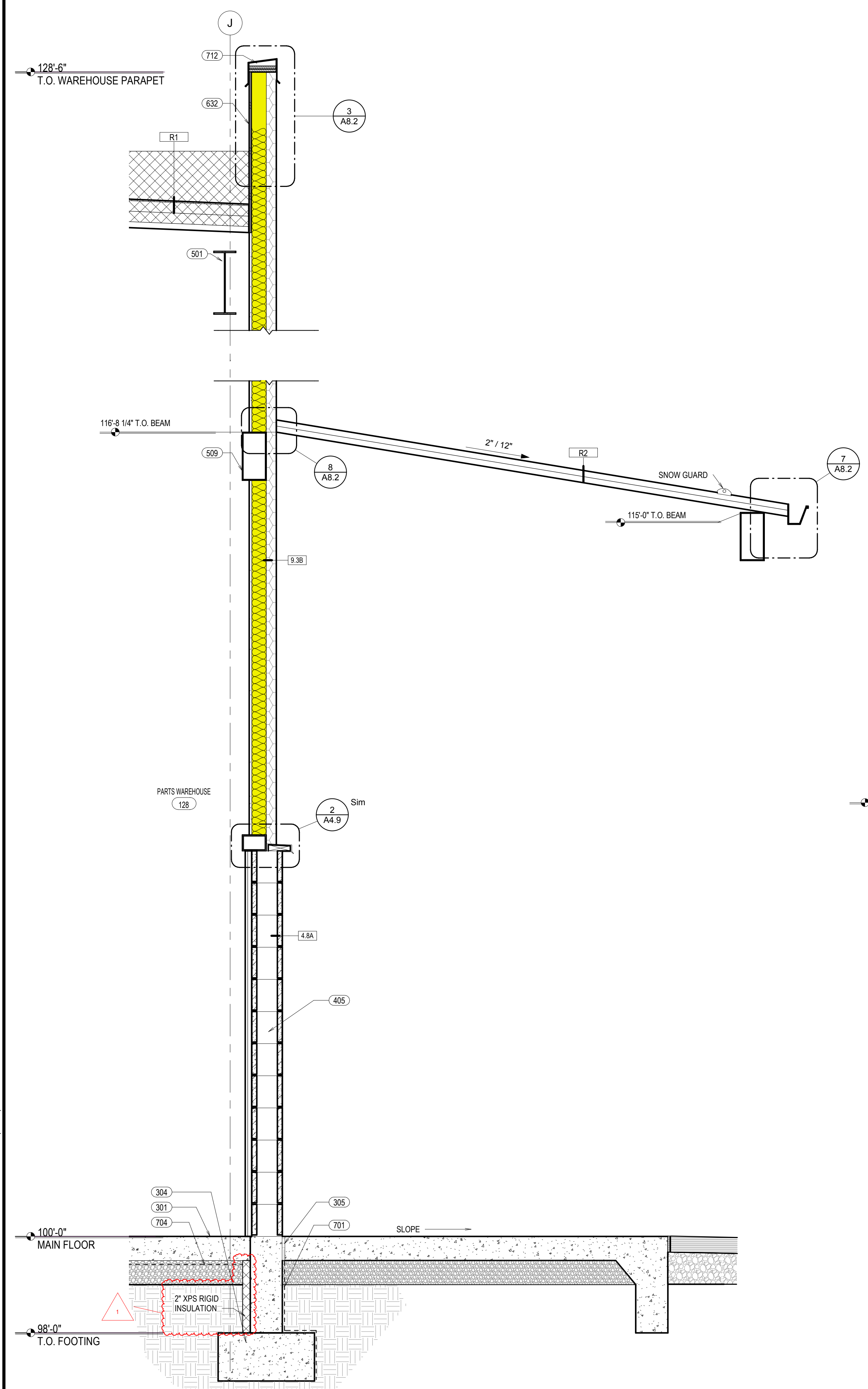
| REVISIONS | ADDENDUM # | DATE |
|-----------|------------|----------|
| 1 | | 12-16-19 |

PROJECT NO. 16066
 DATE: NOVEMBER 2019
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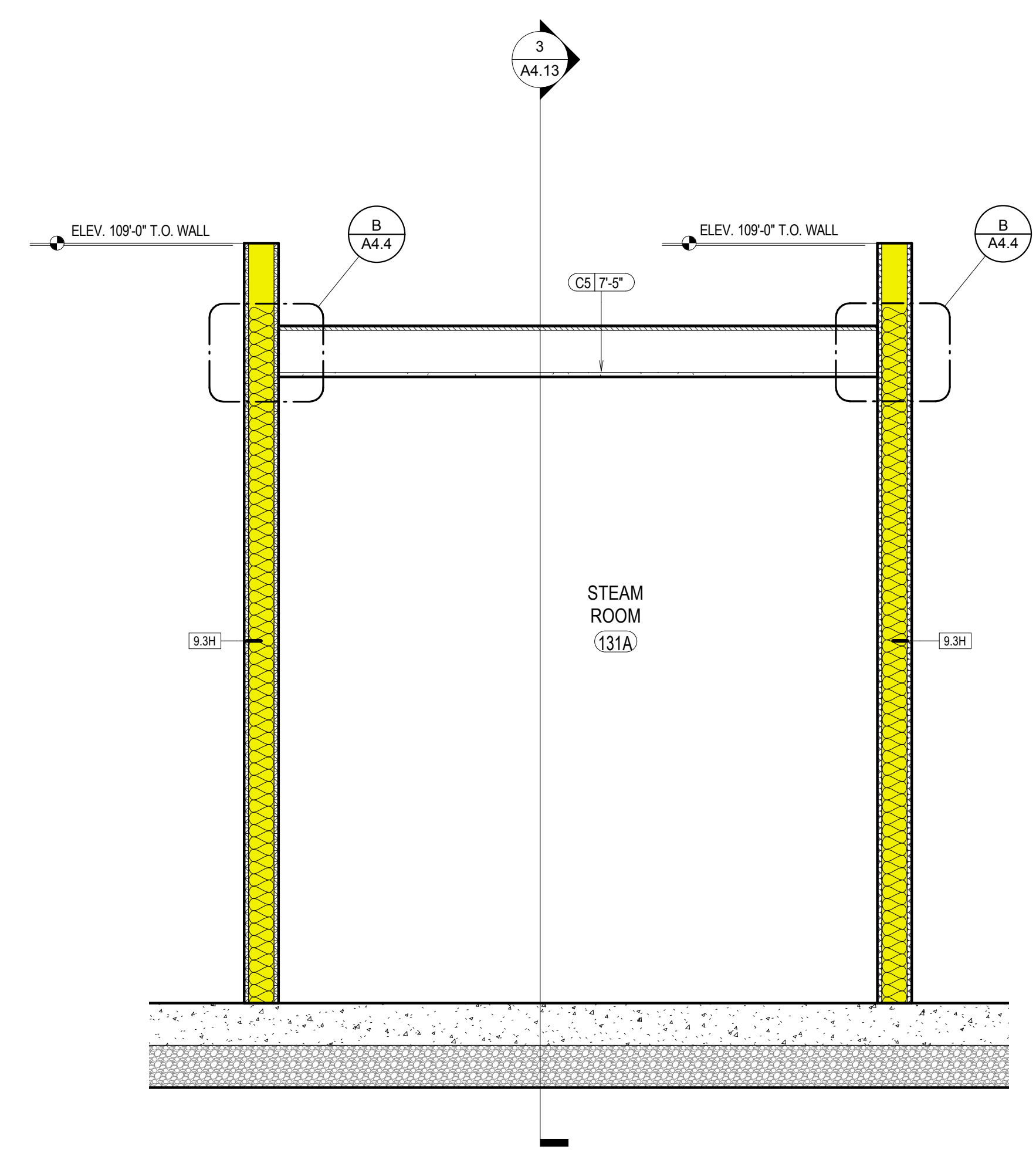
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A4.13
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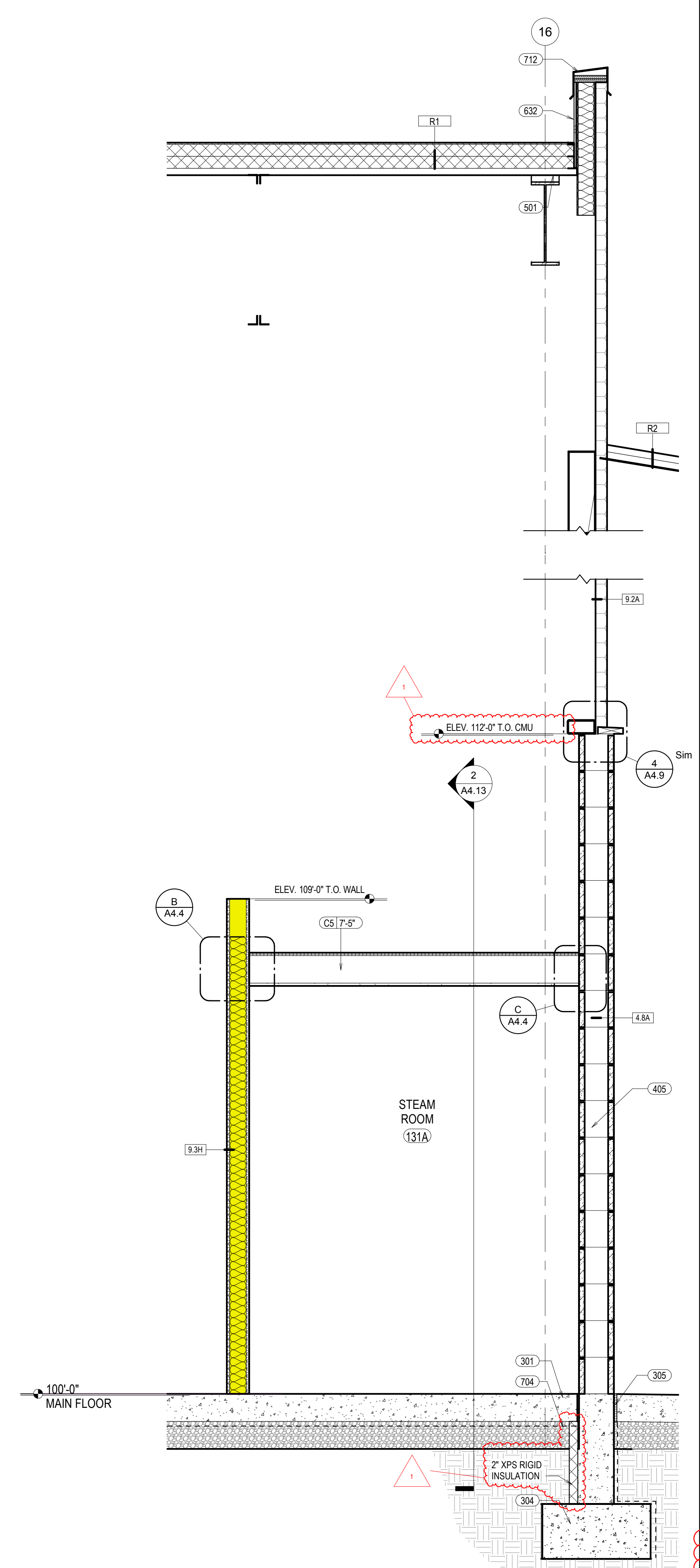
| KEYNOTE LEGEND | |
|----------------|---|
| 301 | REINFORCED CONCRETE SLAB - SEE STRUCTURAL |
| 304 | FOOTING - SEE STRUCTURAL |
| 305 | BOND BREAK |
| 405 | PARTIALLY GROUDED CMU WALL - SEE STRUCTURAL |
| 501 | STEEL BEAM - SEE STRUCTURAL - PAINTED WHERE EXPOSED |
| 509 | STEEL GIRT - SEE STRUCTURAL - PAINTED WHERE EXPOSED |
| 632 | 1/2" SHEATHING |
| 701 | BITUMINOUS DAMP PROOFING |
| 704 | VAPOR BARRIER |
| 712 | PRE-FINISHED CONT. METAL CAP FLASHING |



1 WALL SECTION
 SCALE: 3/4" = 1'-0"



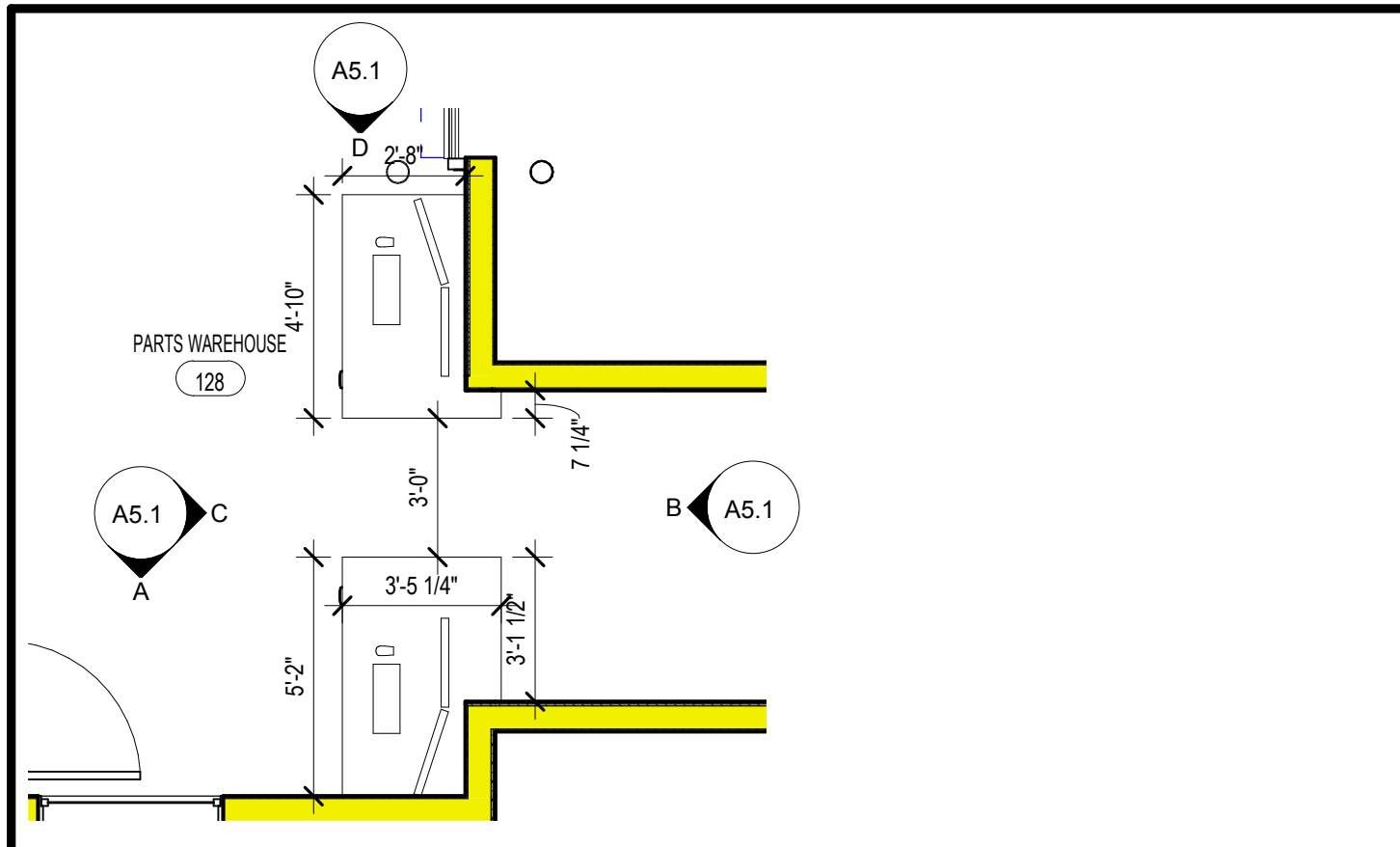
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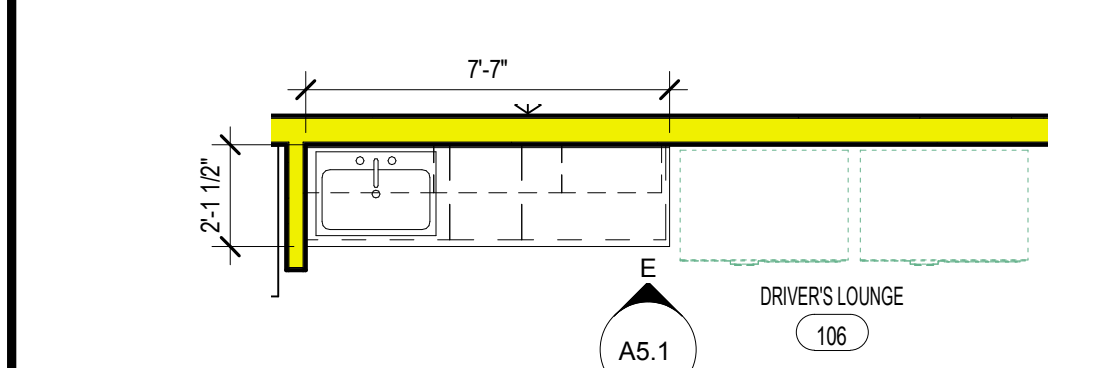
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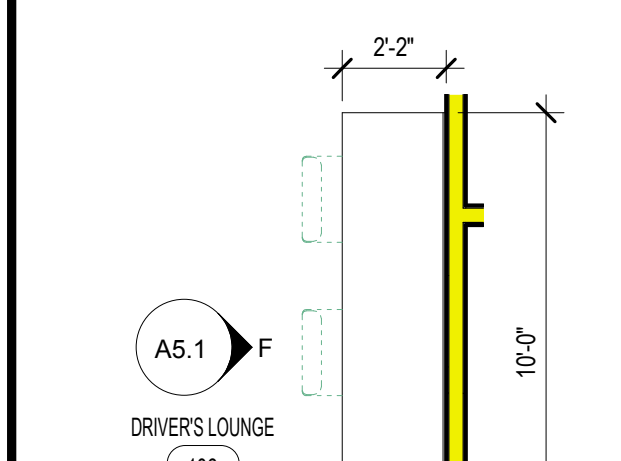
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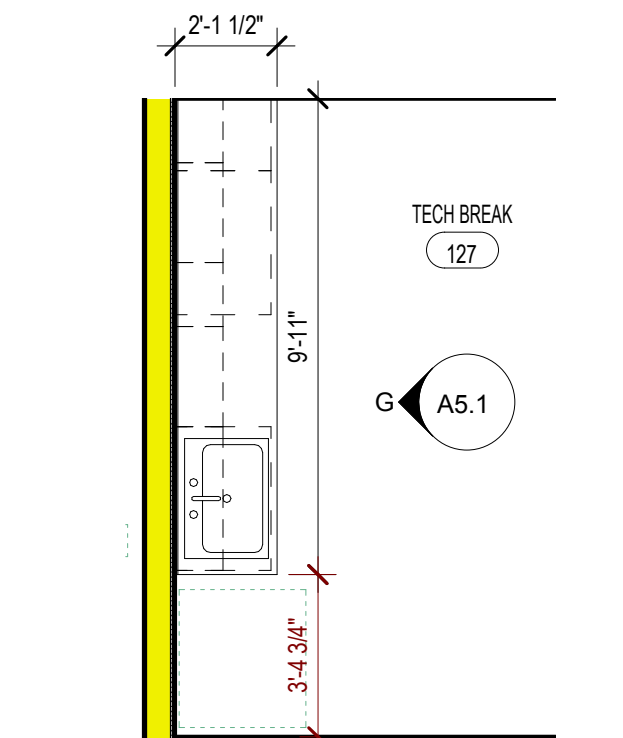
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A5.1 SCALE: 1/4" = 1'-0"



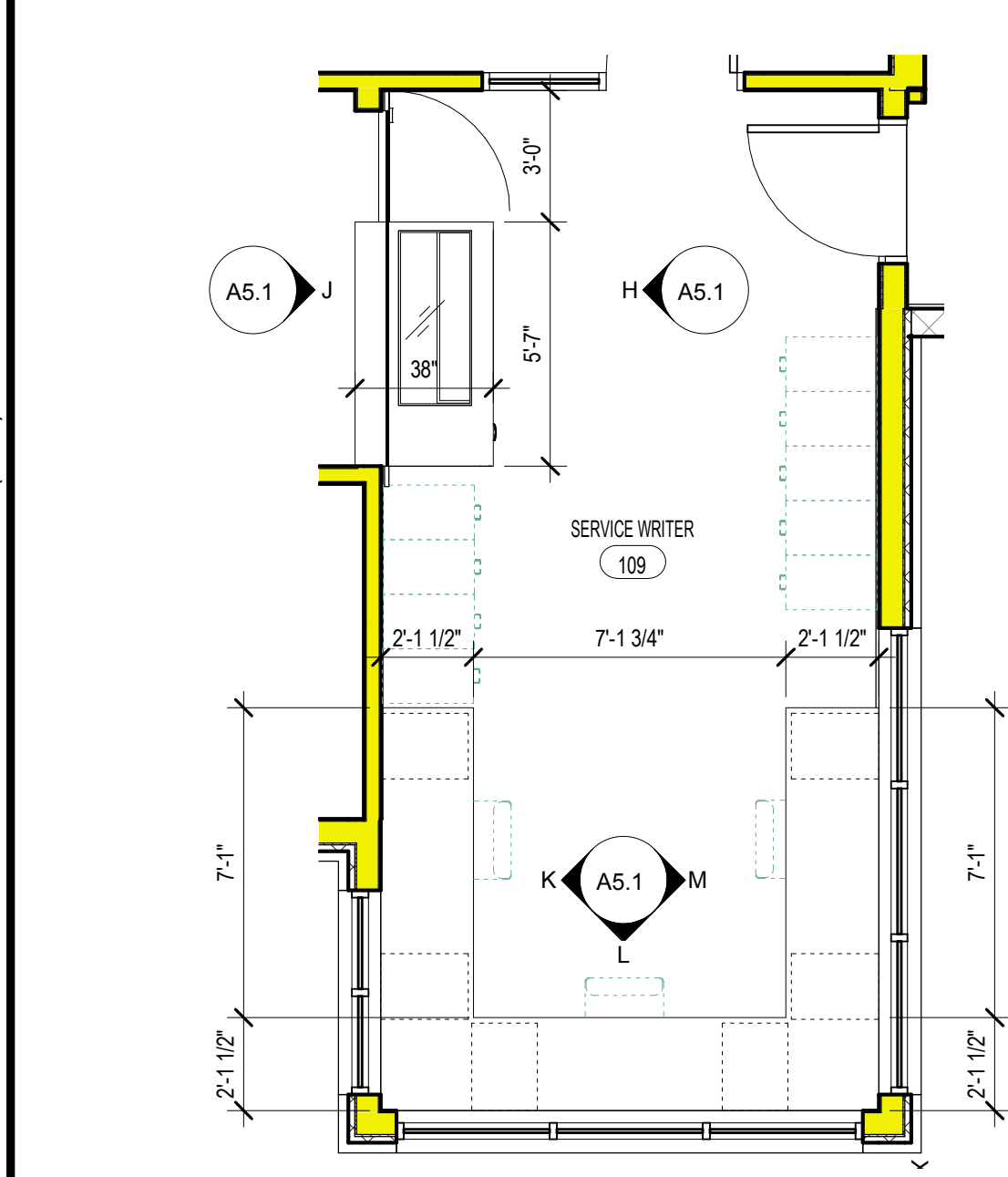
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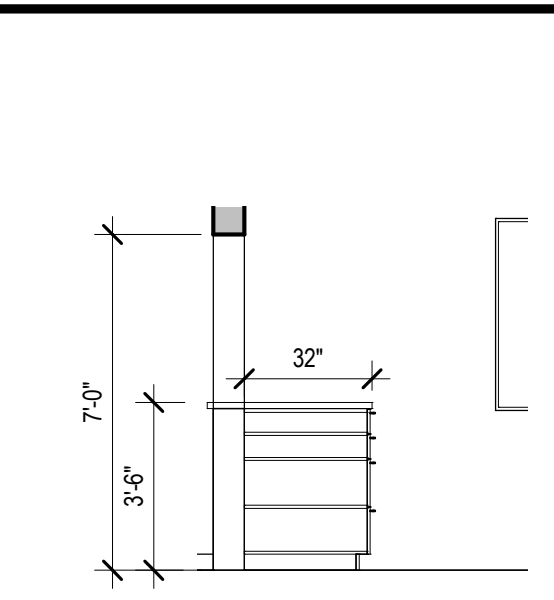
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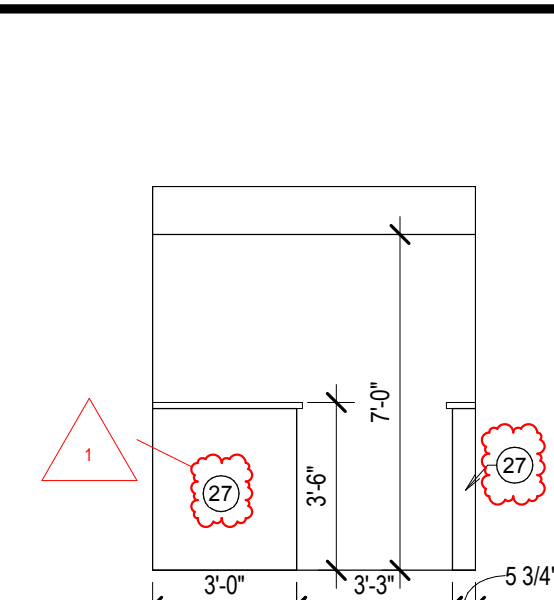
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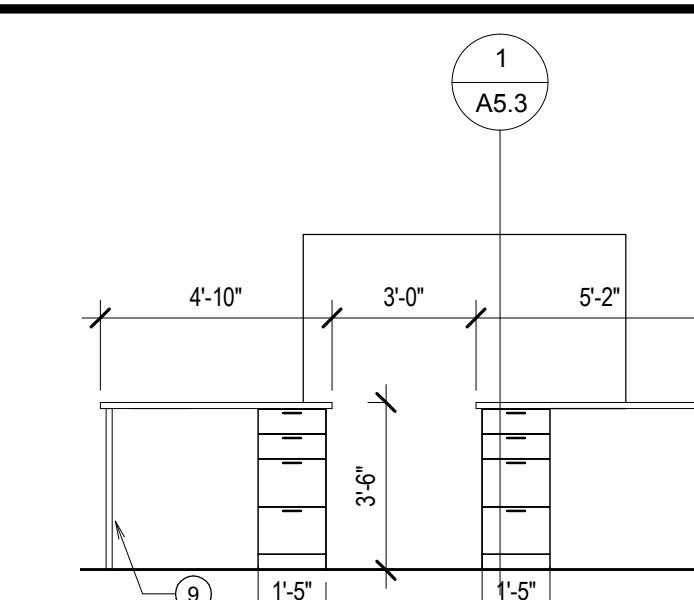
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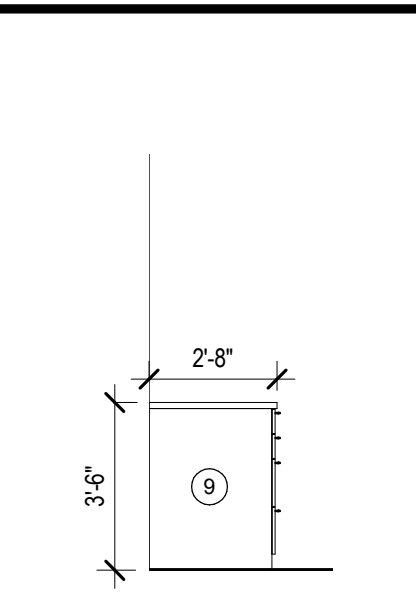
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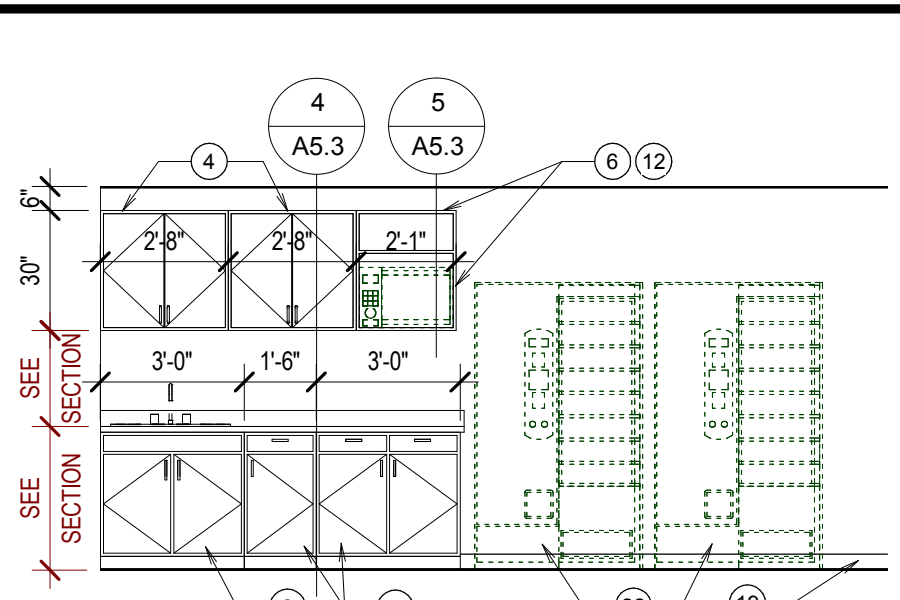
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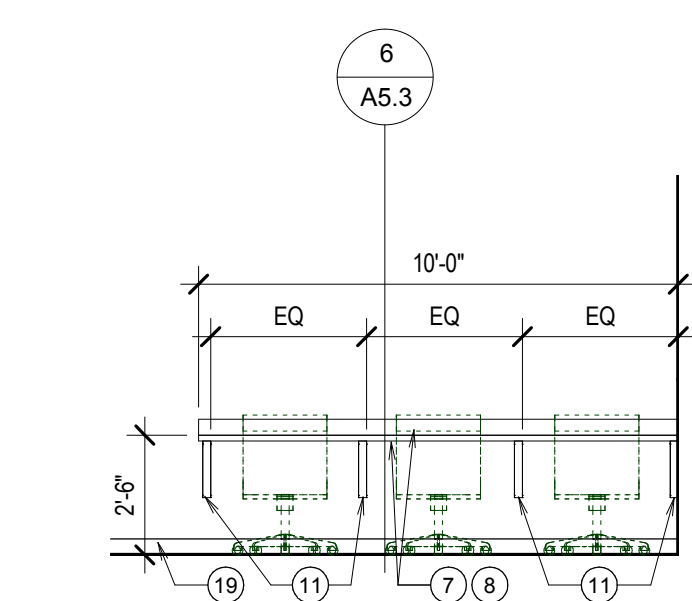
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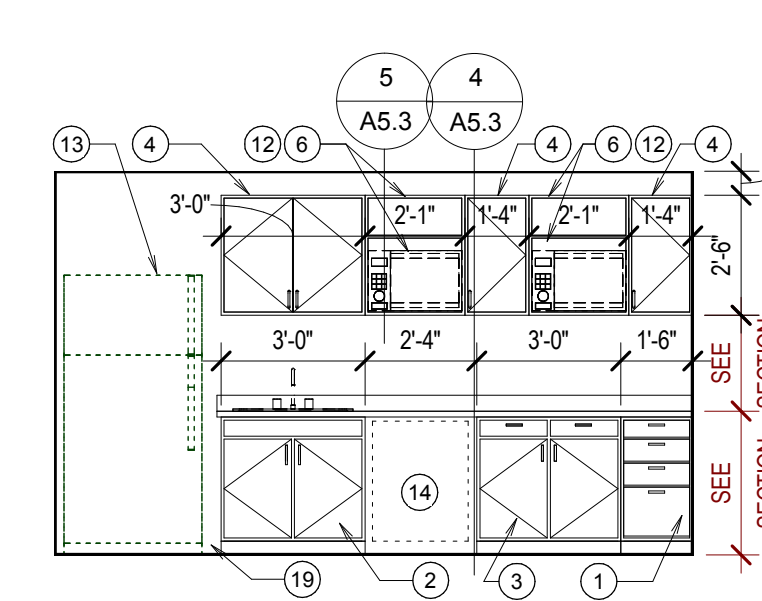
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A5.1 SCALE: 1/4" = 1'-0"



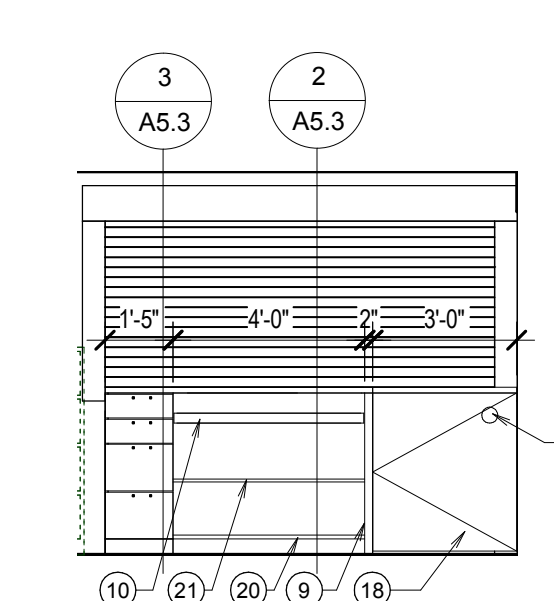
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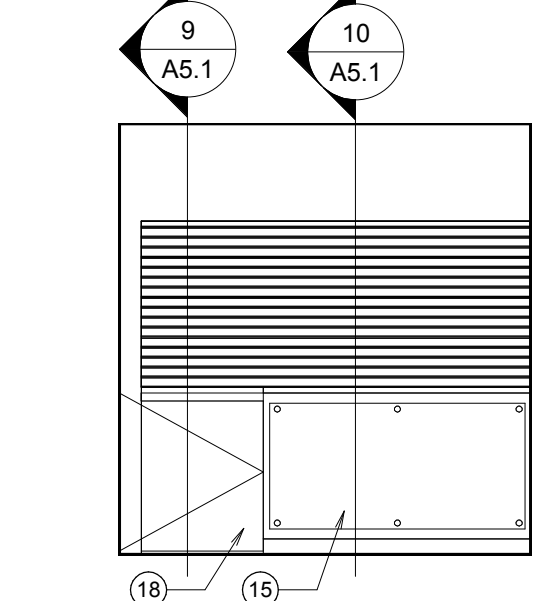
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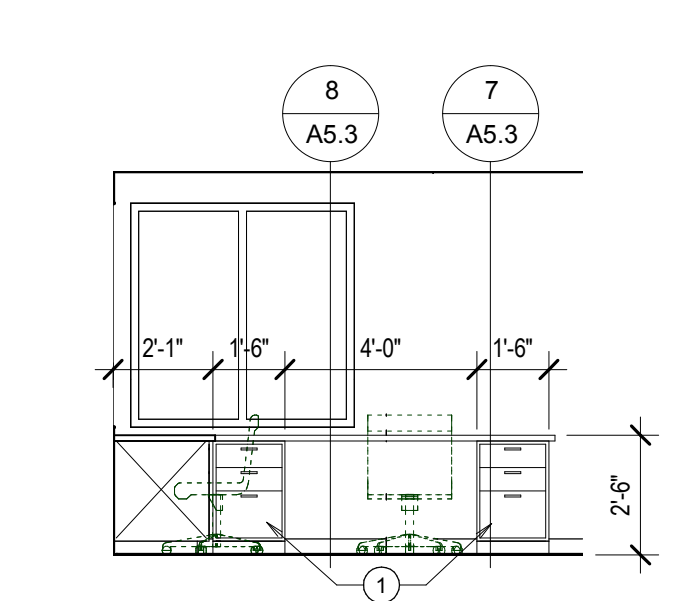
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A5.1 SCALE: 1/4" = 1'-0"



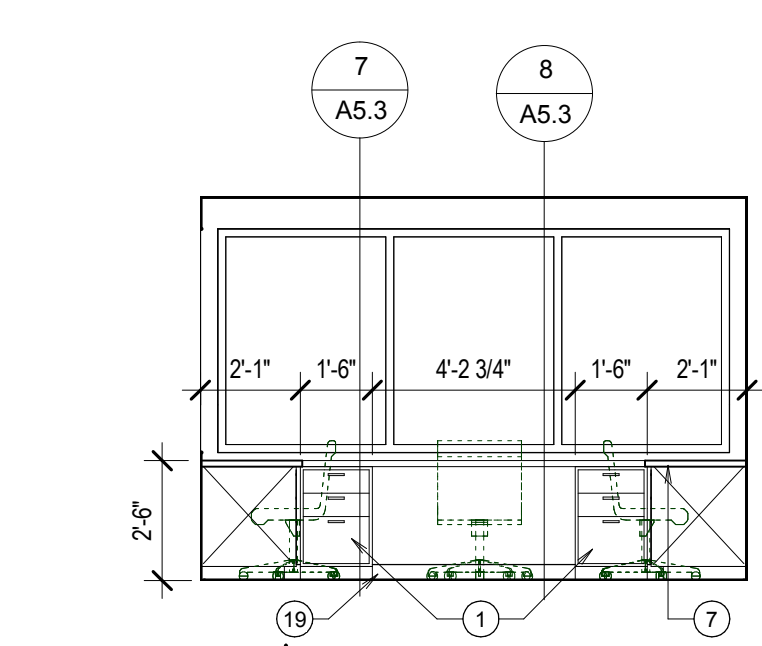
H INT. ELEV.
A5.1 SCALE: 1/4" = 1'-0"



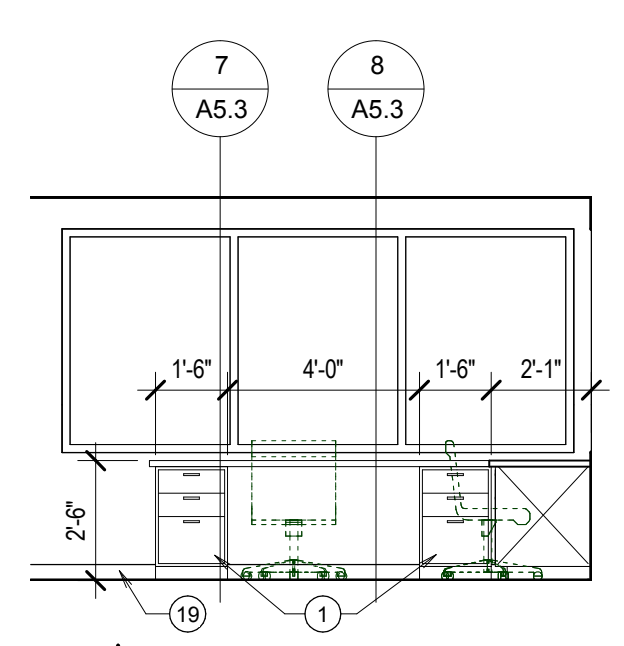
J INT. ELEV.
A5.1 SCALE: 1/4" = 1'-0"



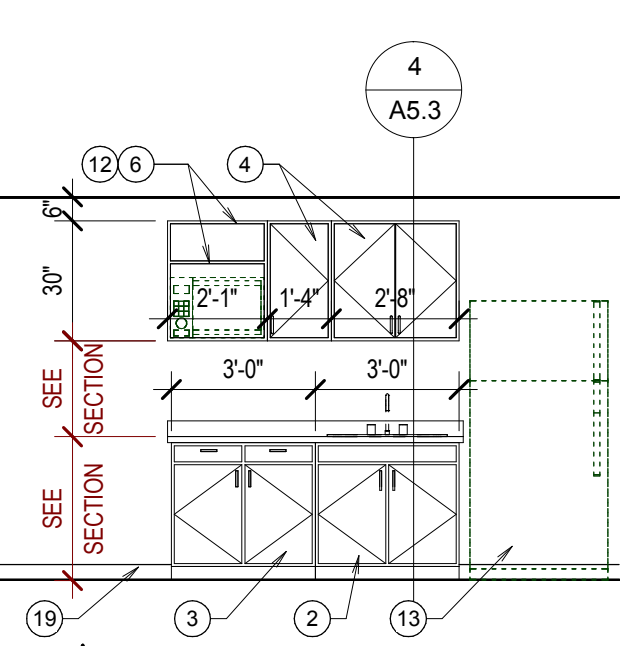
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A5.1 SCALE: 1/4" = 1'-0"



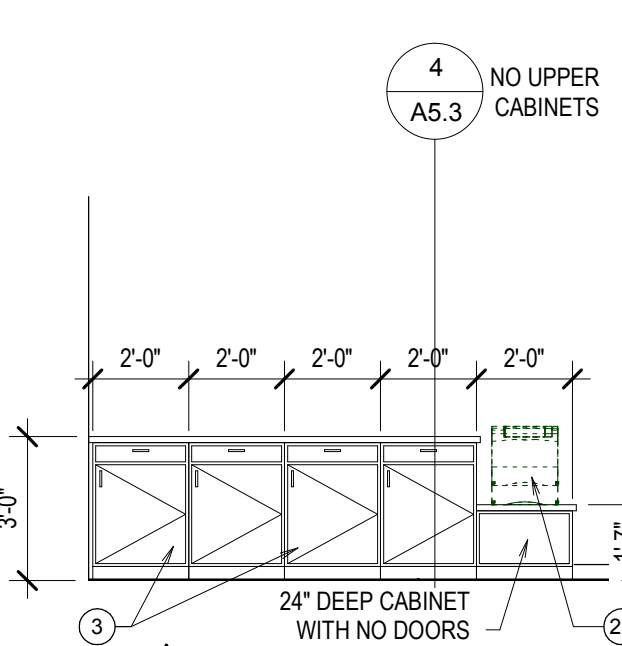
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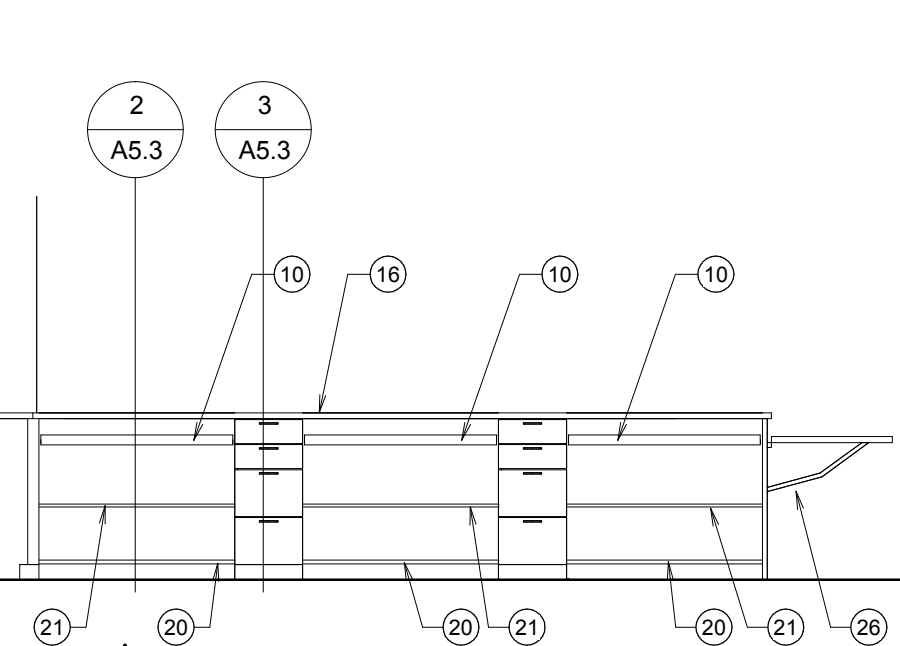
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A5.1 SCALE: 1/4" = 1'-0"



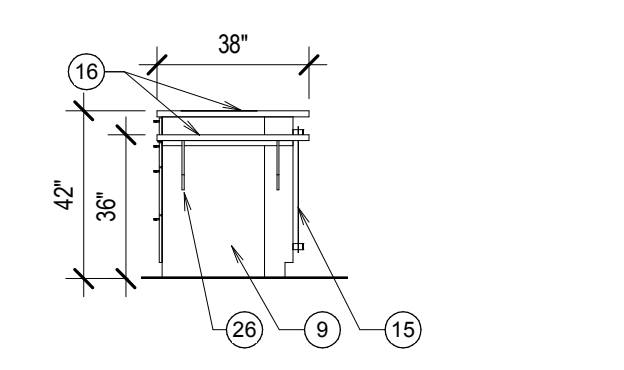
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A5.1 SCALE: 1/4" = 1'-0"



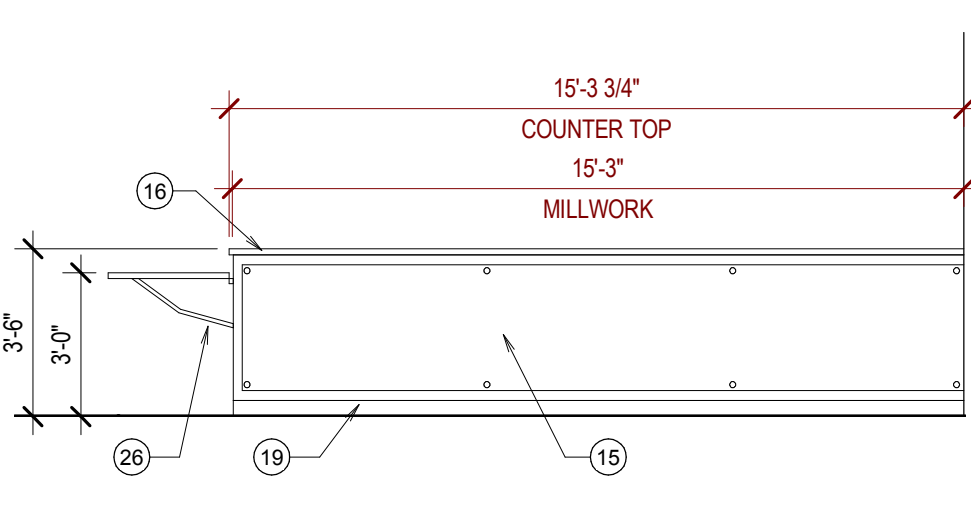
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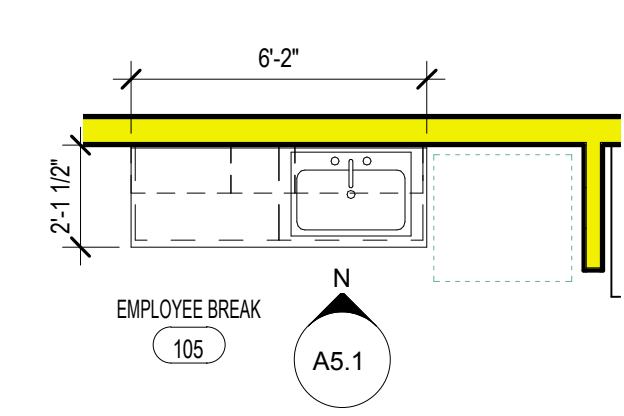
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A5.1 SCALE: 1/4" = 1'-0"



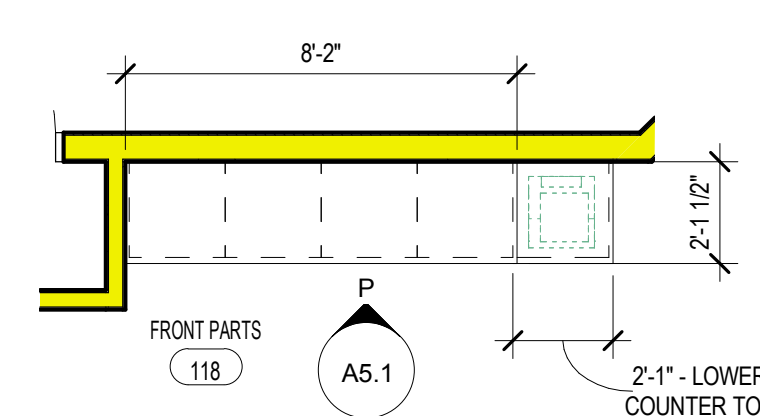
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A5.1 SCALE: 1/4" = 1'-0"



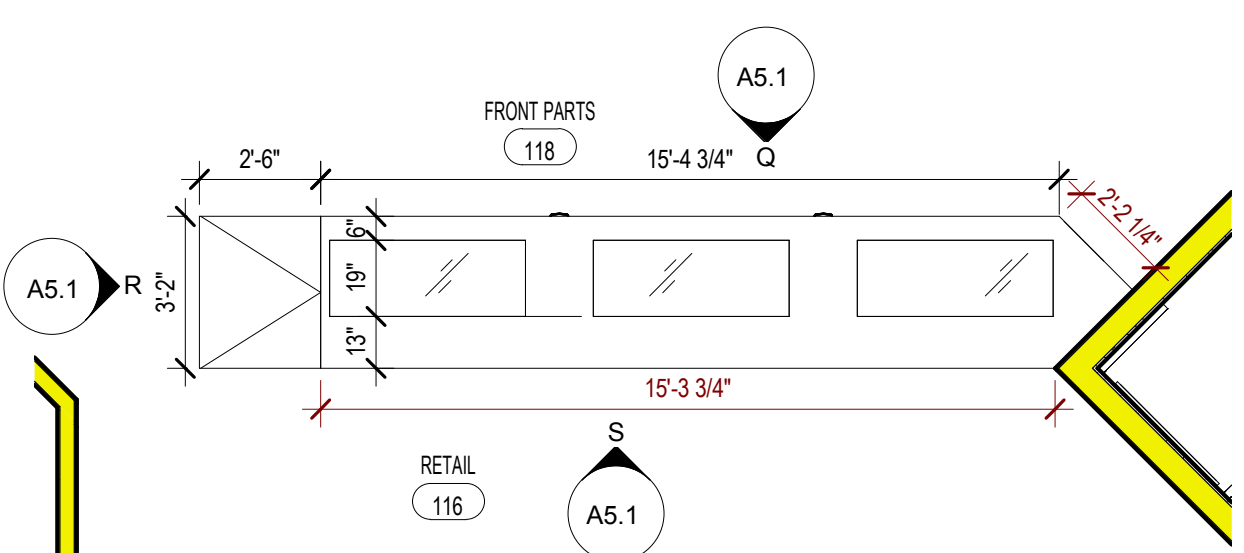
S INT. ELEV.
A5.1 SCALE: 1/4" = 1'-0"



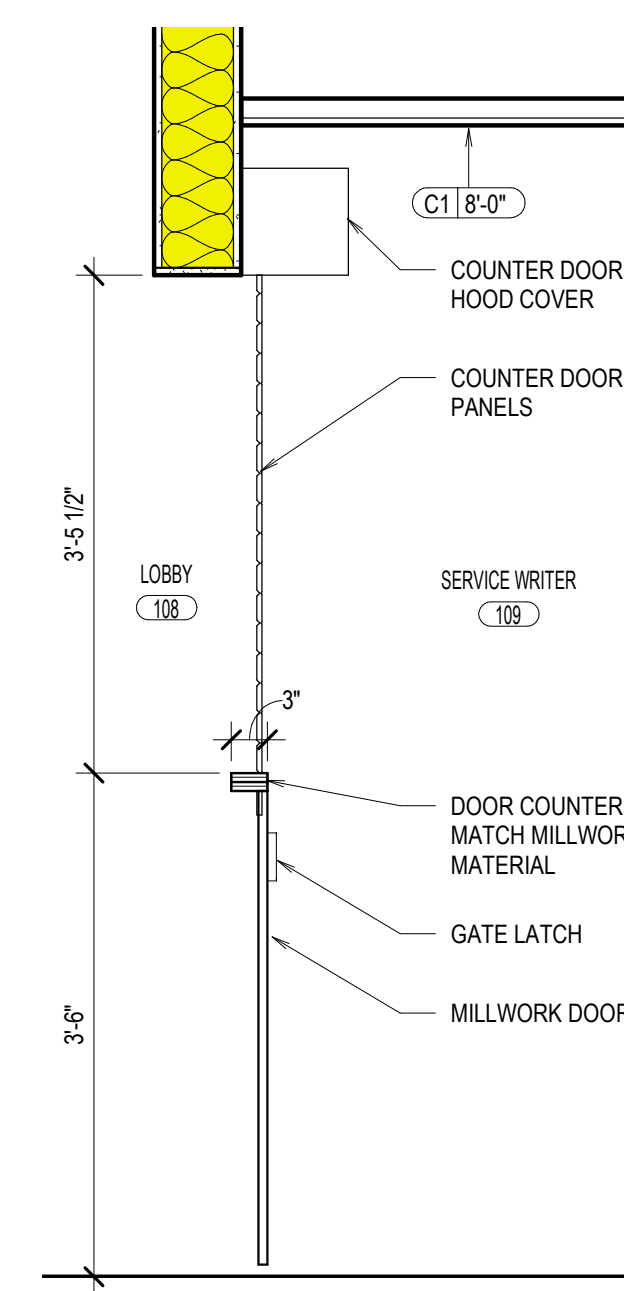
6 ENLARGED PLAN
A5.1 SCALE: 1/4" = 1'-0"



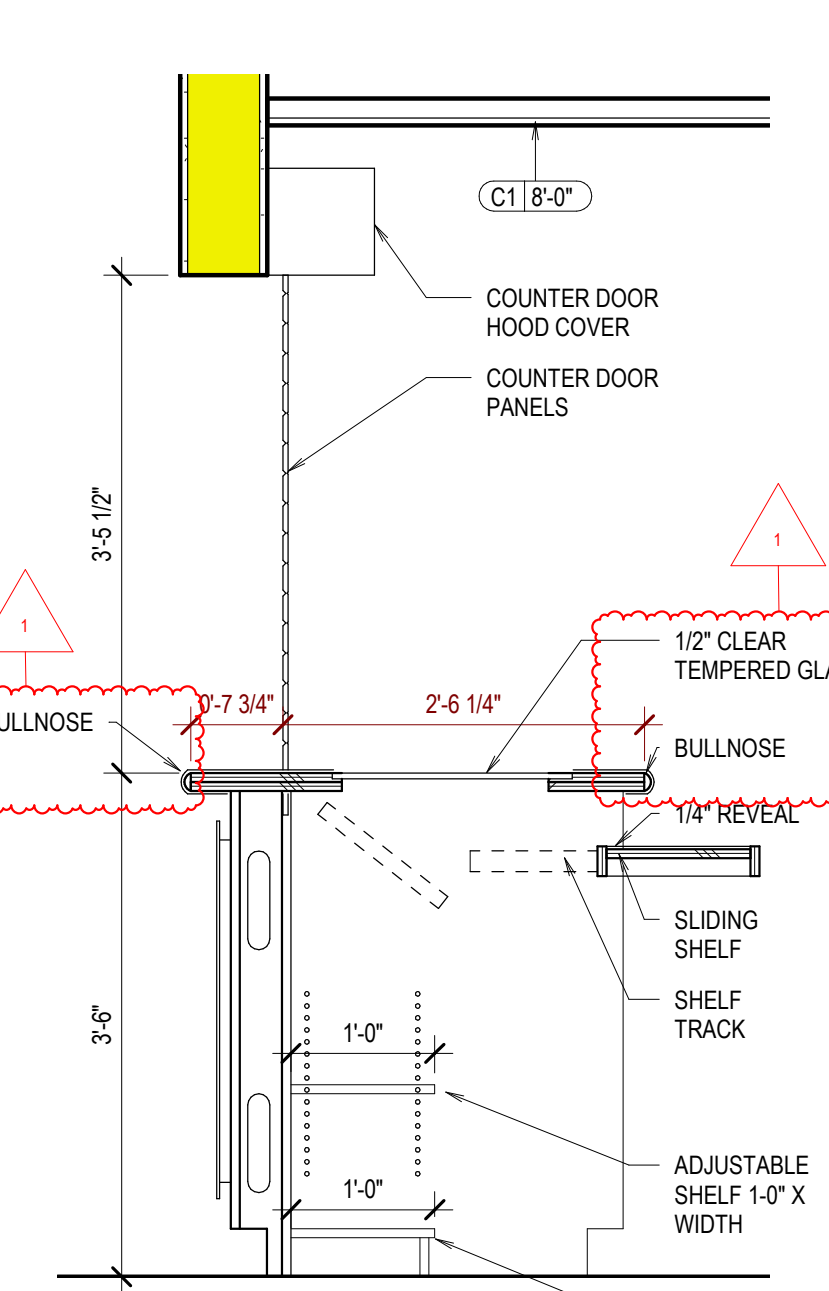
7 ENLARGED PLAN
A5.1 SCALE: 1/4" = 1'-0"



8 INT. ELEVATION
A5.1 SCALE: 1/4" = 1'-0"

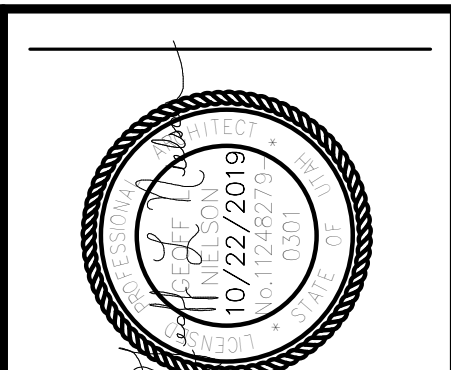


9 SECTION
A5.1 SCALE: 3/4" = 1'-0"



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

- ### GENERAL NOTES
- ALL CABINET PANELS, DRAWERS, & DOORS TO BE PLASTIC LAMINATE - U.N.O.
- ### MILLWORK KEYNOTES
- 24" DEEP BASE CABINET WITH DRAWERS
 - 24" DEEP BASE SINK CABINET
 - 24" DEEP BASE CABINET WITH DRAWERS AND DOORS
 - 15" DEEP UPPER CABINET WITH (1) 3/4" SHELF
 - THUMB TURN DEAD BOLT
 - 15" DEEP OPEN CABINET WITH (1) 3/4" ADJUS. SHELF
 - PLASTIC LAMINATE COUNTER TOP
 - PLASTIC LAMINATE BACK SPLASH
 - SUPPORT PANEL. PLASTIC LAMINATE. BOTH SIDES
 - SLIDING SHELF
 - METAL COUNTER BRACE
 - MICROWAVE - N.I.C.
 - REFRIGERATOR - N.I.C.
 - ICE MACHINE - N.I.C.
 - ALUMINUM DIAMOND PLATE DETAIL PANELS. SECURE TO FACE OF CASEWORK WITH 5/8" STAINLESS STEEL CARRIAGE BOLTS.
 - STAINLESS STEEL COUNTER TOP, BRUSHED FINISH
 - 4" STAINLESS STEEL BACK SPLASH, BRUSHED FINISH.
 - SWINGING GATE WITH 3" X 36" COUNTER ABOVE
 - BASE, SEE FINISH SCHEDULE
 - FIXED SHELF
 - ADJUSTABLE SHELF
 - VENDING MACHINE - N.I.C.
 - PRINTER - N.I.C.
 - NOT USED
 - NOT USED
 - HAFELE TIKLA FOLDING TABLE BRACKET
 - ALUMINUM DIAMOND PLATE



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A NEW BUILDING FOR:
KENWORTH SALES COMPANY INC.
1750 SOUTH 1350 WEST
WEST HAVEN, UTAH
CASEWORK ELEVATION & DETAILS

PROJECT: 16066

DATE: NOVEMBER 2019

DRAWN BY: BTH

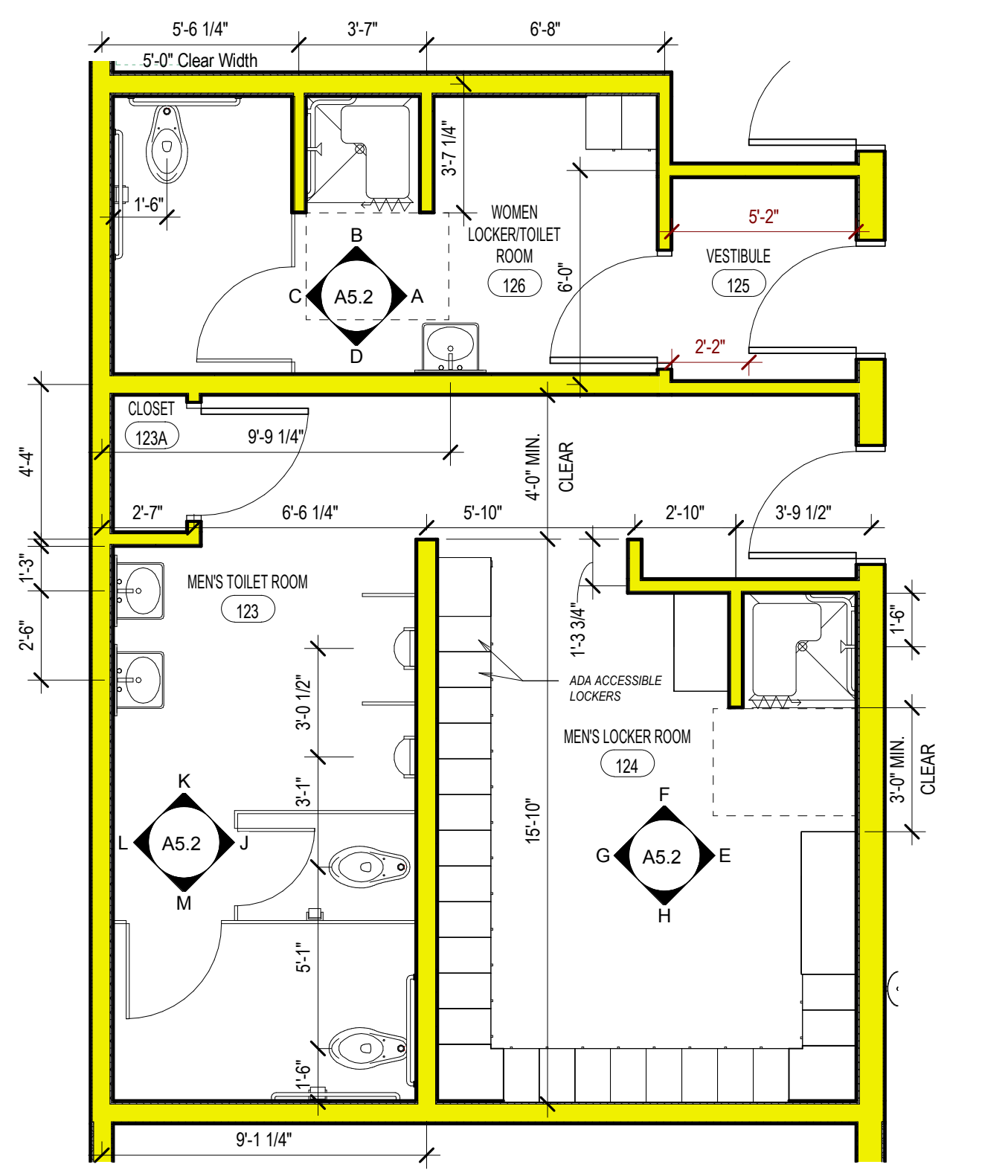
CHECKED BY: GLN

DRAWING NO.: AD #1

| REVISIONS | DATE |
|---------------|----------|
| 1 ADDENDUM #1 | 12-16-19 |

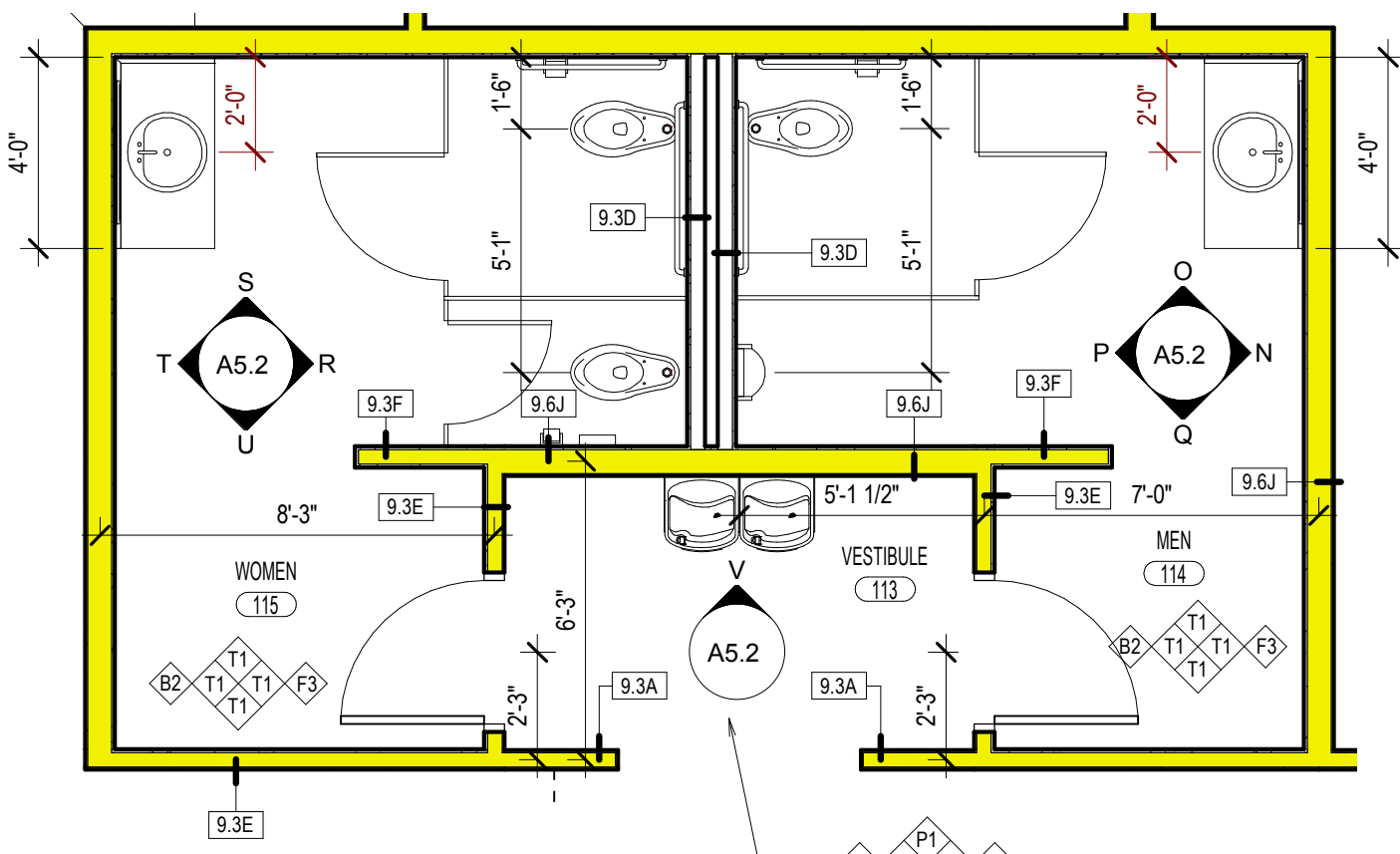
A5.1
REVISED 12-16-19

12/16/2019 9:50:58 AM C:\Users\shansen\Documents\KENWORTH\ODDEN (V.20)_Harsen\kic.vrt

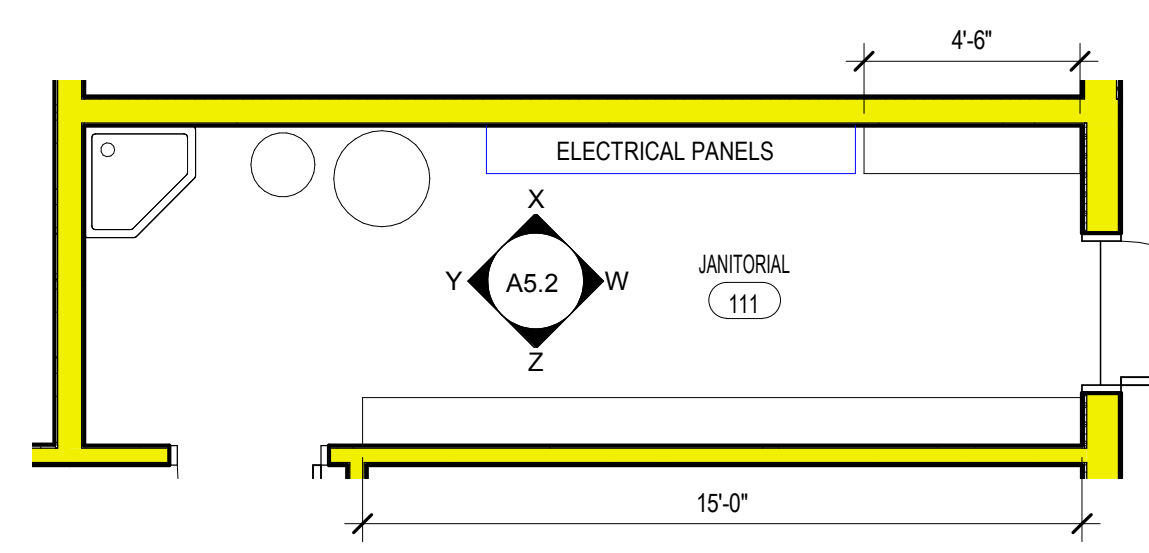


1 ENLARGED PLAN
A5.2 SCALE: 1/4" = 1'-0"

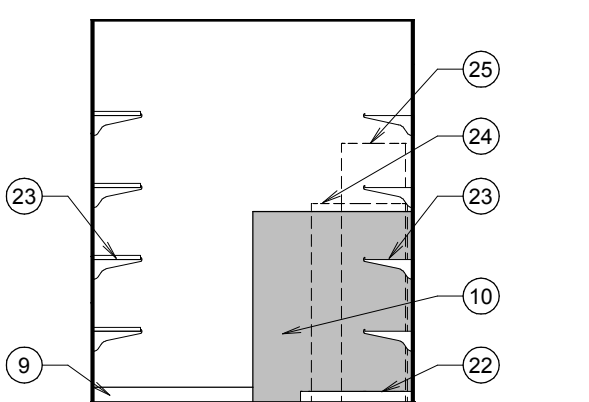
LOCKERS DESIGNATED AS "ADA ACCESSIBLE" SHALL MEET THE REQUIREMENTS AS STIPULATED IN ICC A117.1-2009



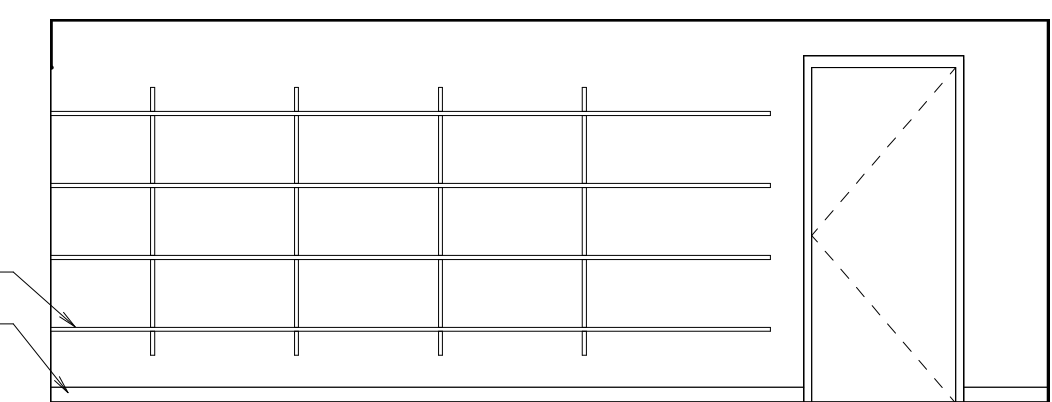
2 ENLARGED PLAN
A5.2 SCALE: 1/4" = 1'-0"



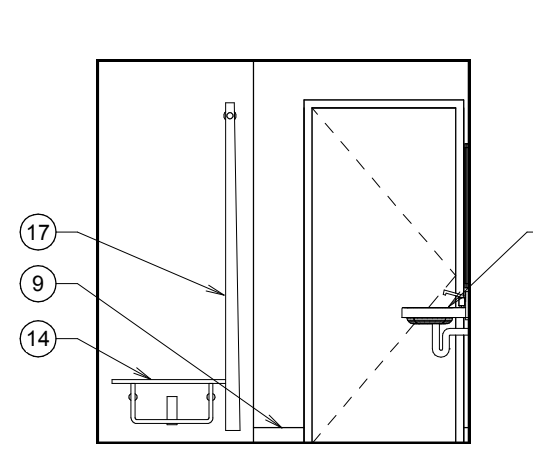
3 ENLARGED PLAN
A5.2 SCALE: 1/4" = 1'-0"



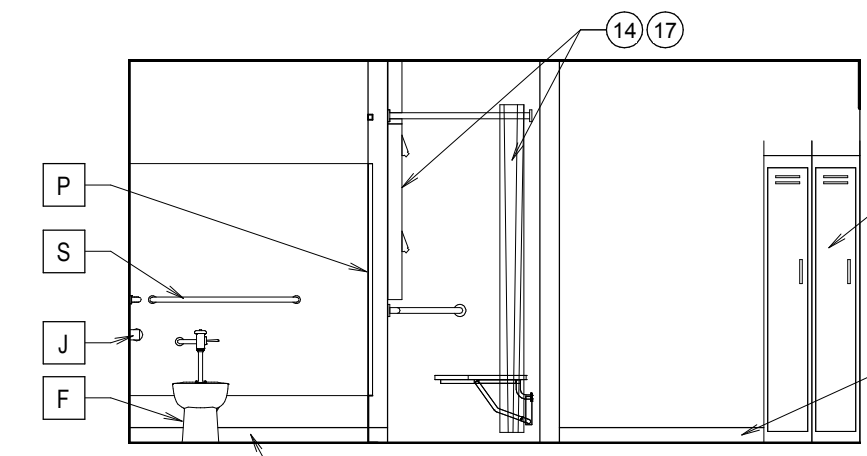
Y INT. ELEVATION
A5.2 SCALE: 1/4" = 1'-0"



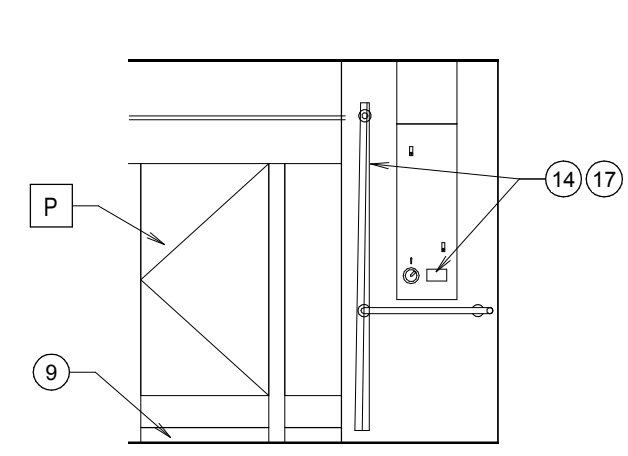
Z INT. ELEVATION
A5.2 SCALE: 1/4" = 1'-0"



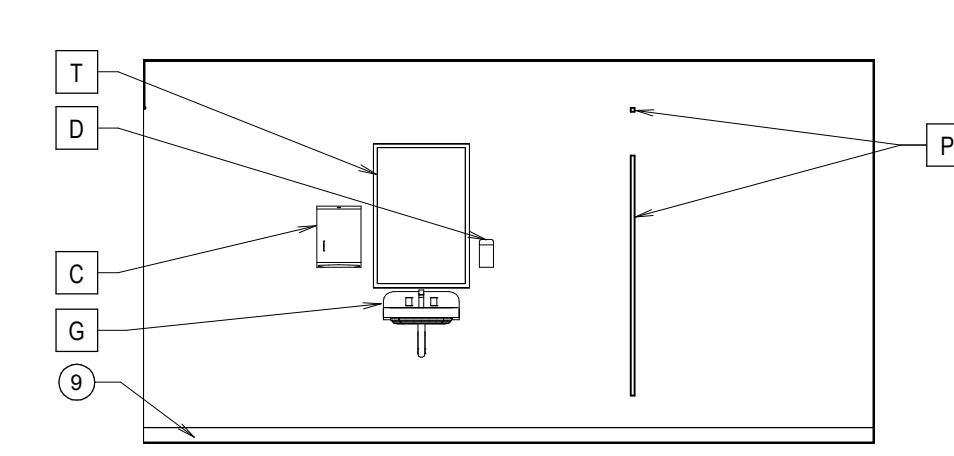
A INT. ELEV.
A5.2 SCALE: 1/4" = 1'-0"



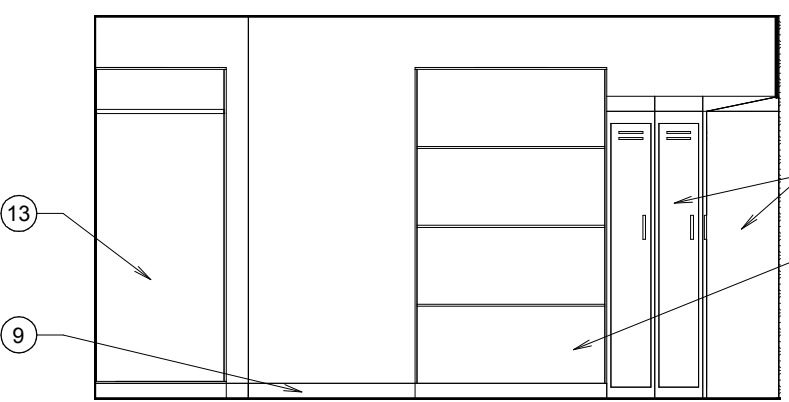
B INT. ELEV.
A5.2 SCALE: 1/4" = 1'-0"



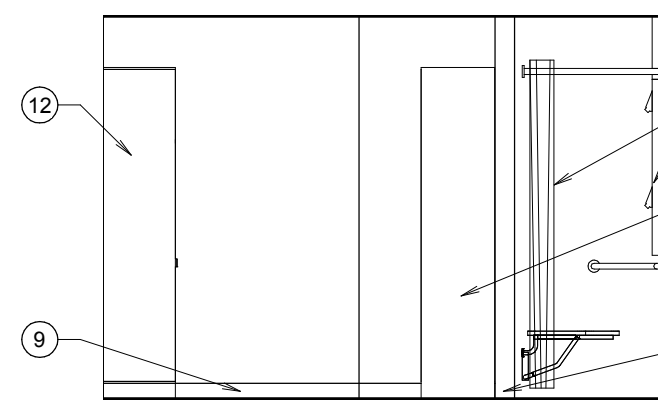
C INT. ELEV.
A5.2 SCALE: 1/4" = 1'-0"



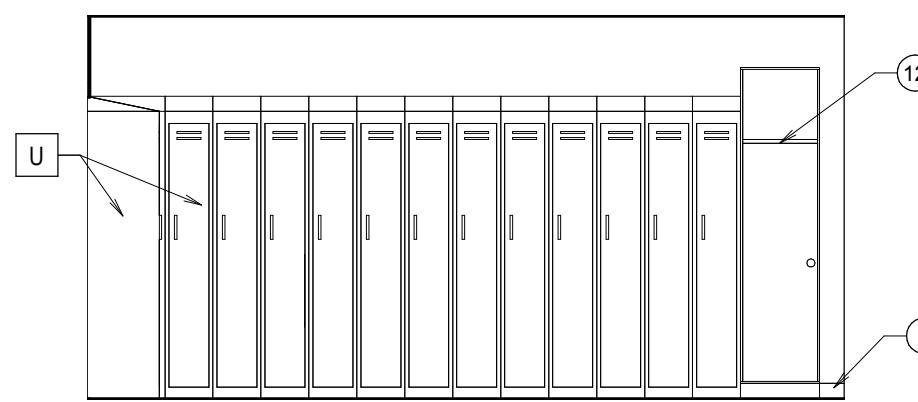
D INT. ELEV.
A5.2 SCALE: 1/4" = 1'-0"



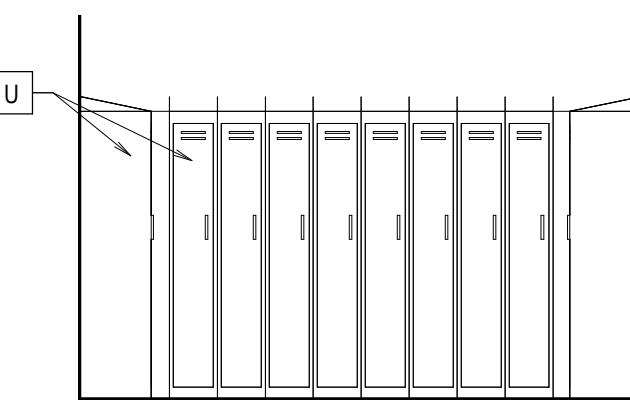
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A5.2 SCALE: 1/4" = 1'-0"



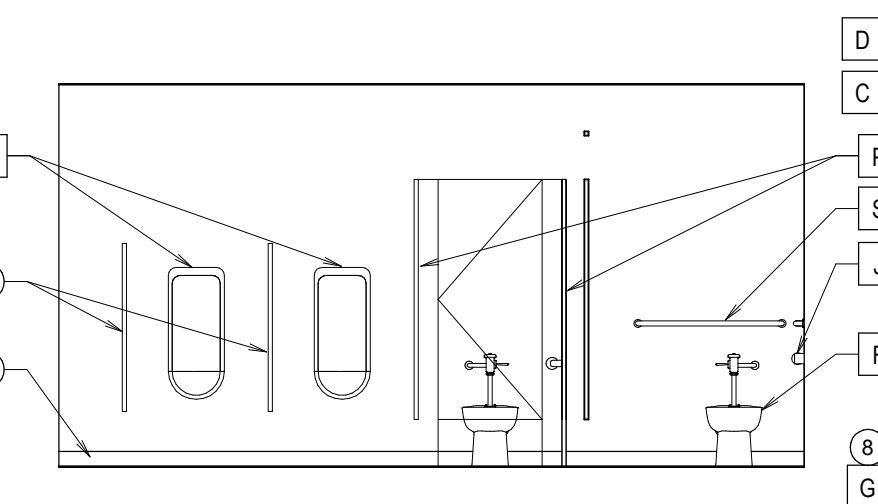
F INT. ELEV.
A5.2 SCALE: 1/4" = 1'-0"



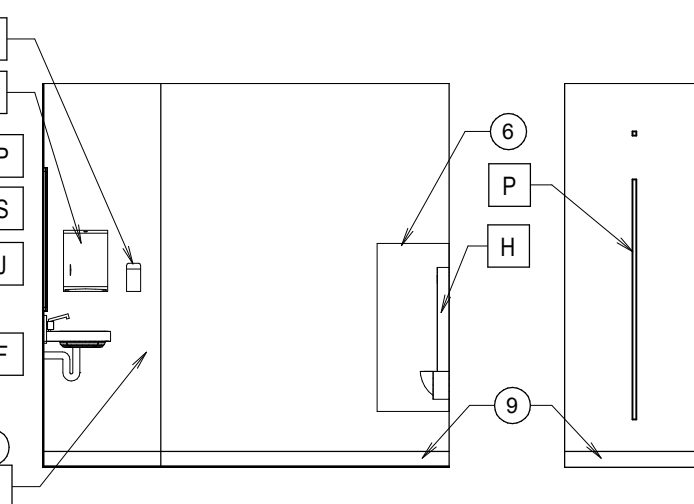
G INT. ELEV.
A5.2 SCALE: 1/4" = 1'-0"



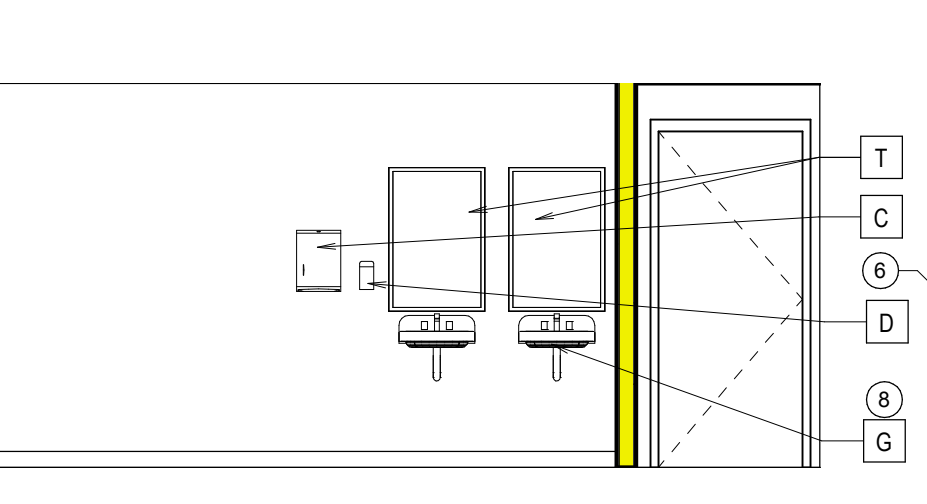
H INT. ELEV.
A5.2 SCALE: 1/4" = 1'-0"



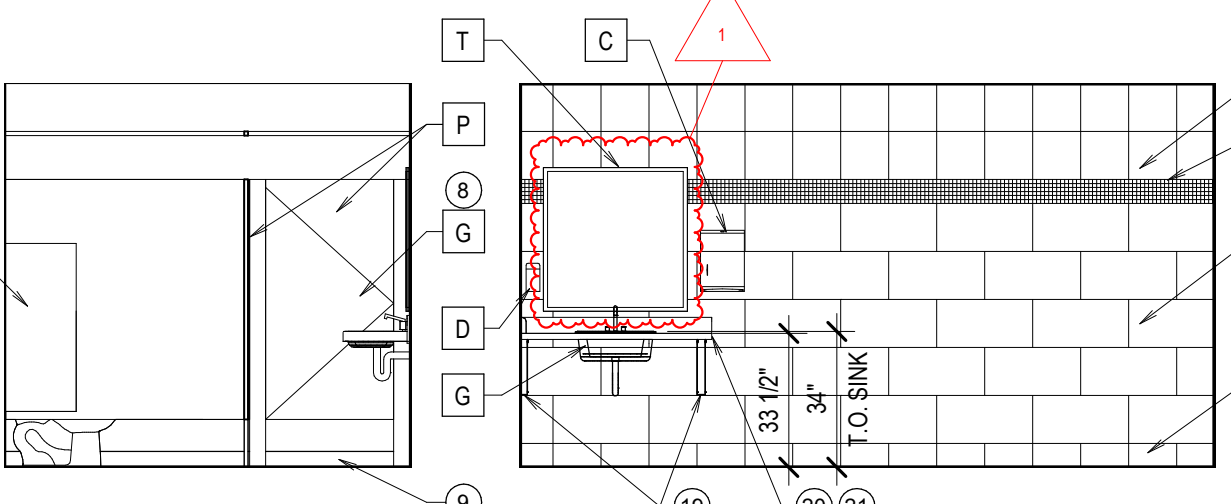
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A5.2 SCALE: 1/4" = 1'-0"



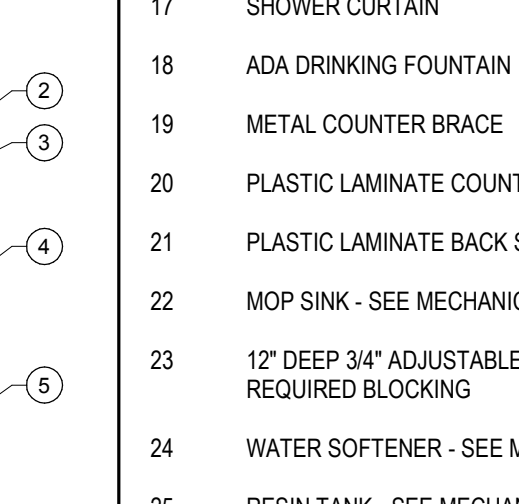
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A5.2 SCALE: 1/4" = 1'-0"



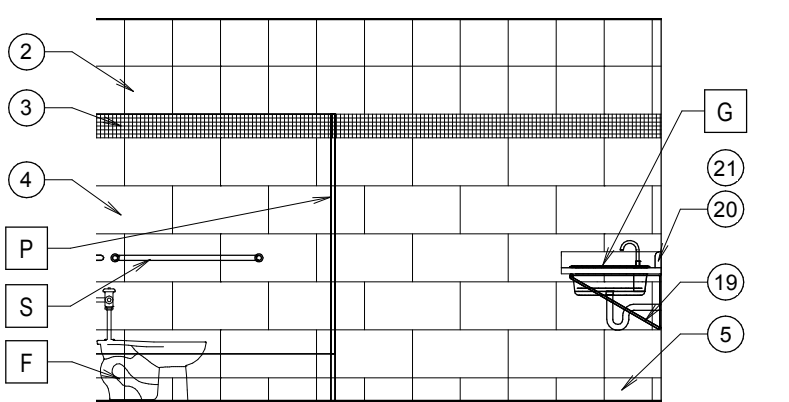
L INT. ELEV.
A5.2 SCALE: 1/4" = 1'-0"



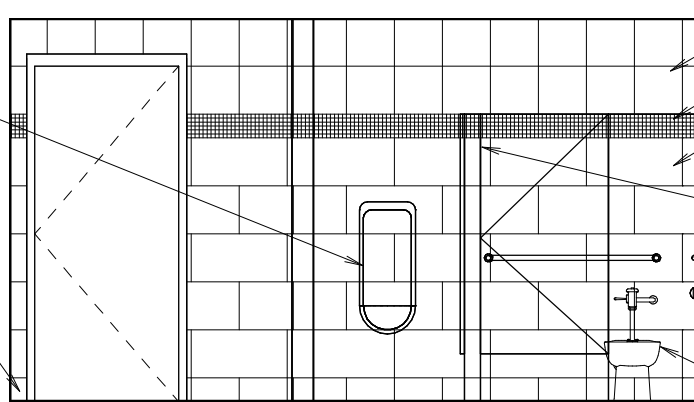
M INT. ELEV.
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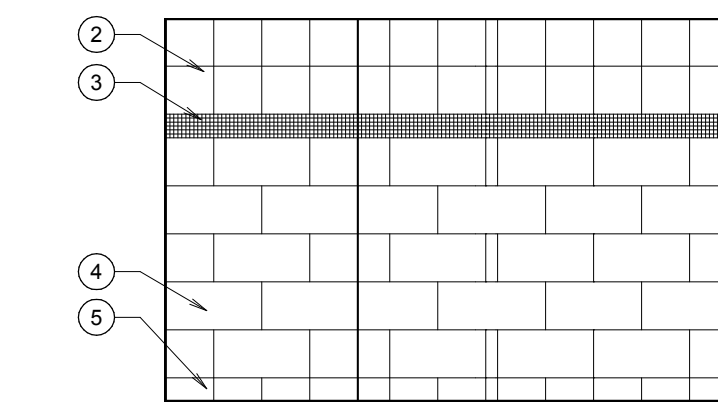
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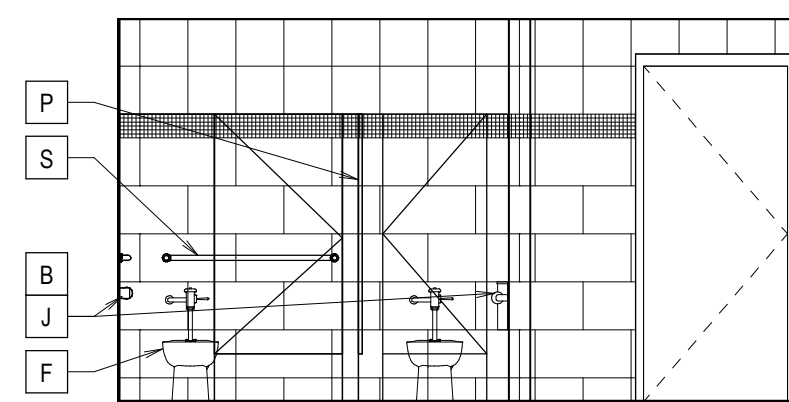
O INT. ELEV.
A5.2 SCALE: 1/4" = 1'-0"



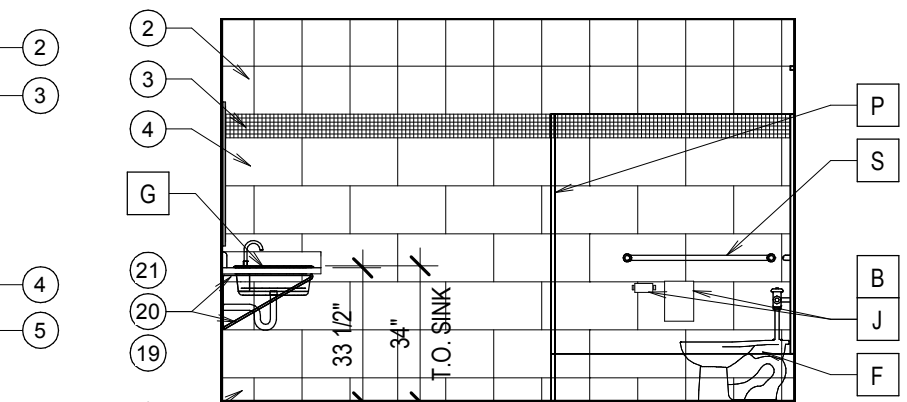
P INT. ELEV.
A5.2 SCALE: 1/4" = 1'-0"



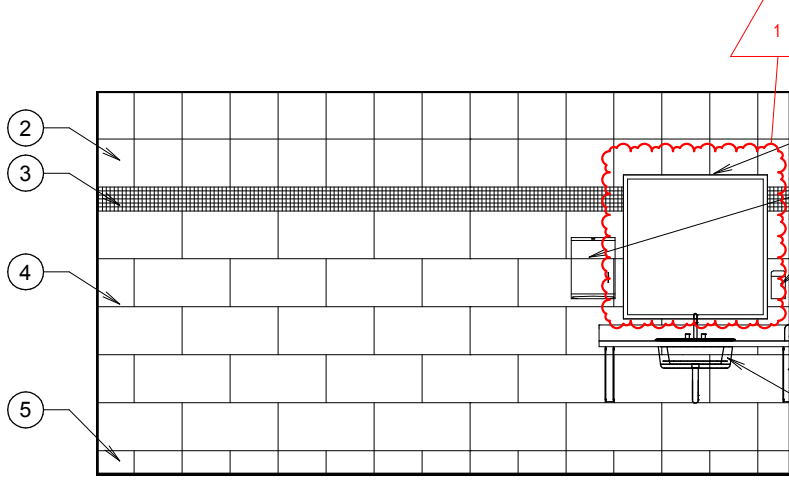
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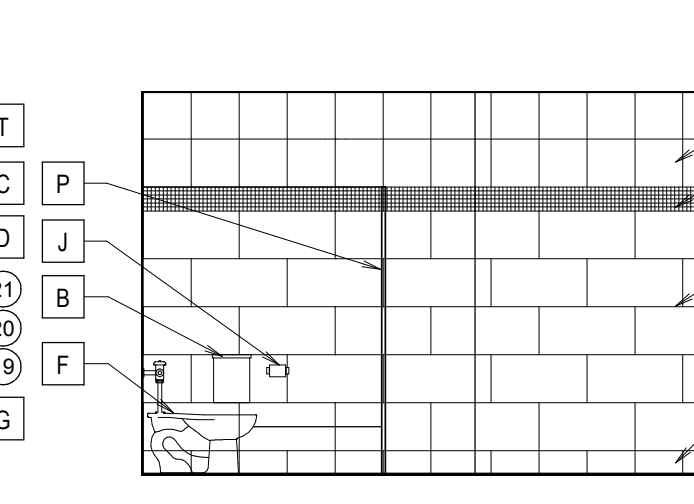
R INT. ELEV.
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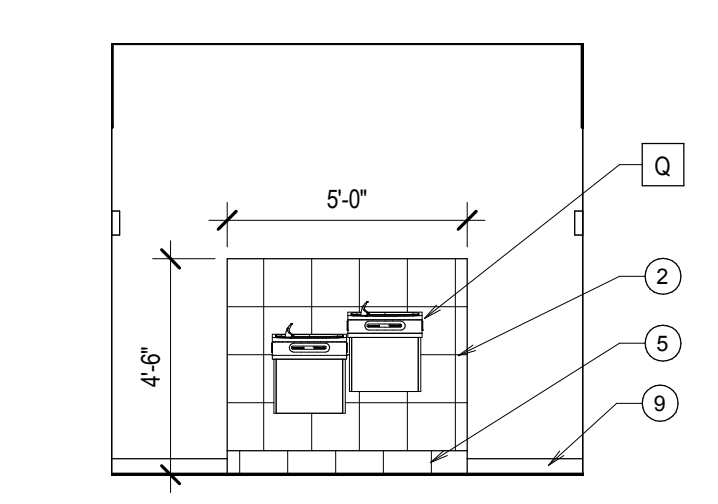
S INT. ELEV.
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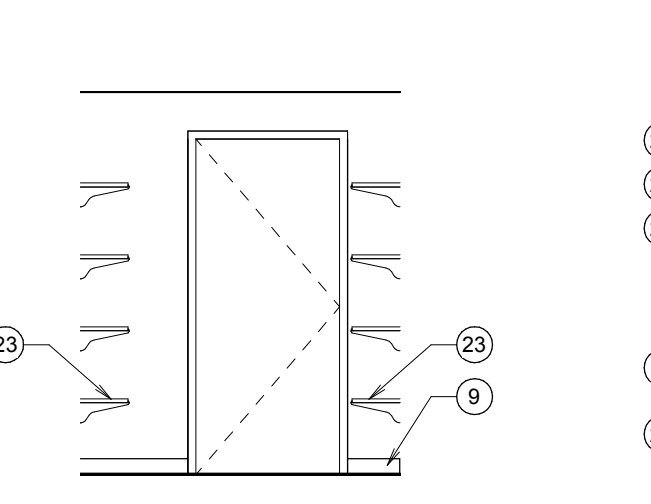
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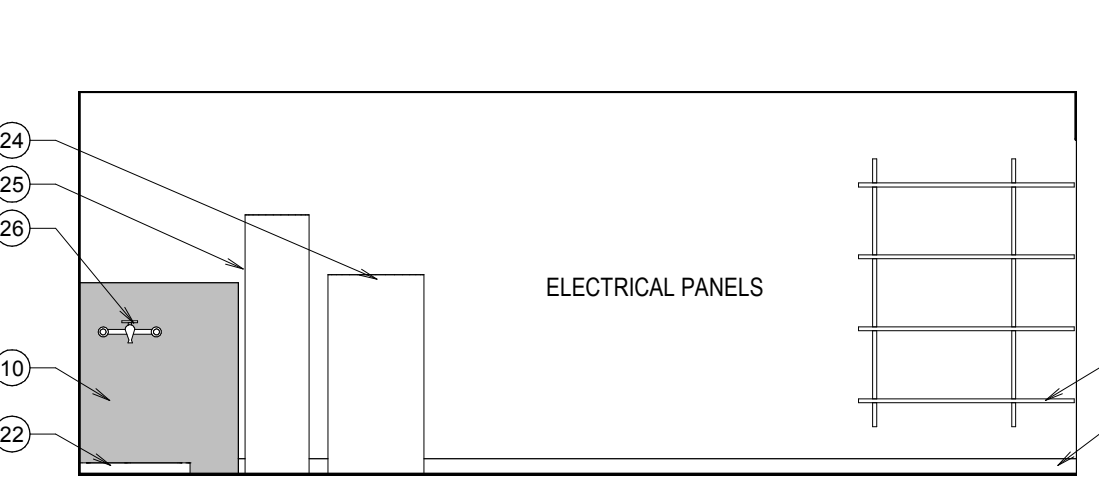
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A5.2 SCALE: 1/4" = 1'-0"



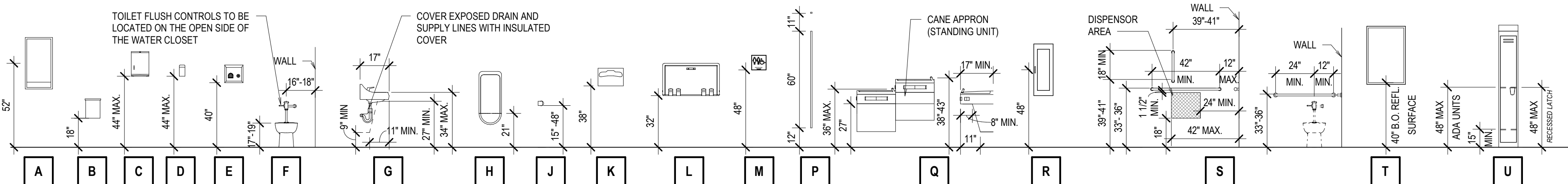
V INT. ELEV.
A5.2 SCALE: 1/4" = 1'-0"



W INT. ELEVATION
A5.2 SCALE: 1/4" = 1'-0"



X INT. ELEVATION
A5.2 SCALE: 1/4" = 1'-0"



- A. SANITARY NAPKIN DISPENSER
- B. NAPKIN DISPOSAL
- C. PAPER TOWEL DISPENSER
- D. SOAP DISPENSER
- E. ELECTRIC HAND DRYER
- F. WATER CLOSET
- G. SINK (PIPES WRAPPED)
- H. WALL-HUNG URINAL
- J. TOILET PAPER HOLDER
- K. TOILET SEAT COVER
- L. CHANGING TABLE
- M. SIGNAGE
- P. TOILET PARTITION
- Q. DRINKING FOUNTAIN
- R. RECESSED F.E. CABINET
- S. GRAB BAR
- T. MIRROR
- U. SINGLE TIER LOCKER

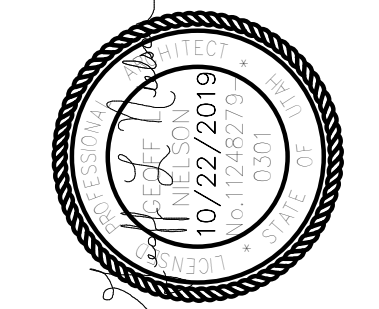
FIXTURE KEY & ANSI MOUNTING HEIGHTS

GENERAL NOTES

- ALL DISPENSERS ARE OWNER FURNISHED - CONTRACTOR INSTALLED.
- FLOOR DRAINS SHALL BE LOCATED DIRECTLY UNDER TOILET PARTITIONS. SLOPE CONCRETE FLOORS IMMEDIATELY AROUND DRAIN TO DRAIN.

INTERIOR KEYNOTES

- CLEAN LINEN SHELVING
- 12" x 12" CERAMIC WALL TILE
- 1" x 1" MOSAIC WALL TILE
- 12" x 24" CERAMIC WALL TILE
- 6" x 12" CERAMIC WALL BASE
- SCREEN PARTITION
- NOT USED
- HAND WASH STATION
- BASE, AS SCHEDULE
- FRP WALL PANELS AND TRIMS
- NOT USED
- DIRTY LINEN BIN
- CLEAN HANGING LINEN CABINET
- ADA SIDE TRANSFER SHOWER UNIT - SEE MECH. SPEC.
- NOT USED
- 3'-0" HOOK STRIP
- SHOWER CURTAIN
- ADA DRINKING FOUNTAIN
- METAL COUNTER BRACE
- PLASTIC LAMINATE COUNTER TOP
- PLASTIC LAMINATE BACK SPLASH
- MOP SINK - SEE MECHANICAL
- 12" DEEP 3/4" ADJUSTABLE SHELVING - PROVIDE REQUIRED BLOCKING
- WATER SOFTENER - SEE MECHANICAL
- RESIN TANK - SEE MECHANICAL
- WATER SUPPLY FOR MOP SINK



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A NEW BUILDING FOR:
KENWORTH SALES COMPANY INC.
1750 SOUTH 1350 WEST
WEST HAVEN, UTAH
CASEWORK, LOCKER & TOILET ROOM ELEV. & DETAILS

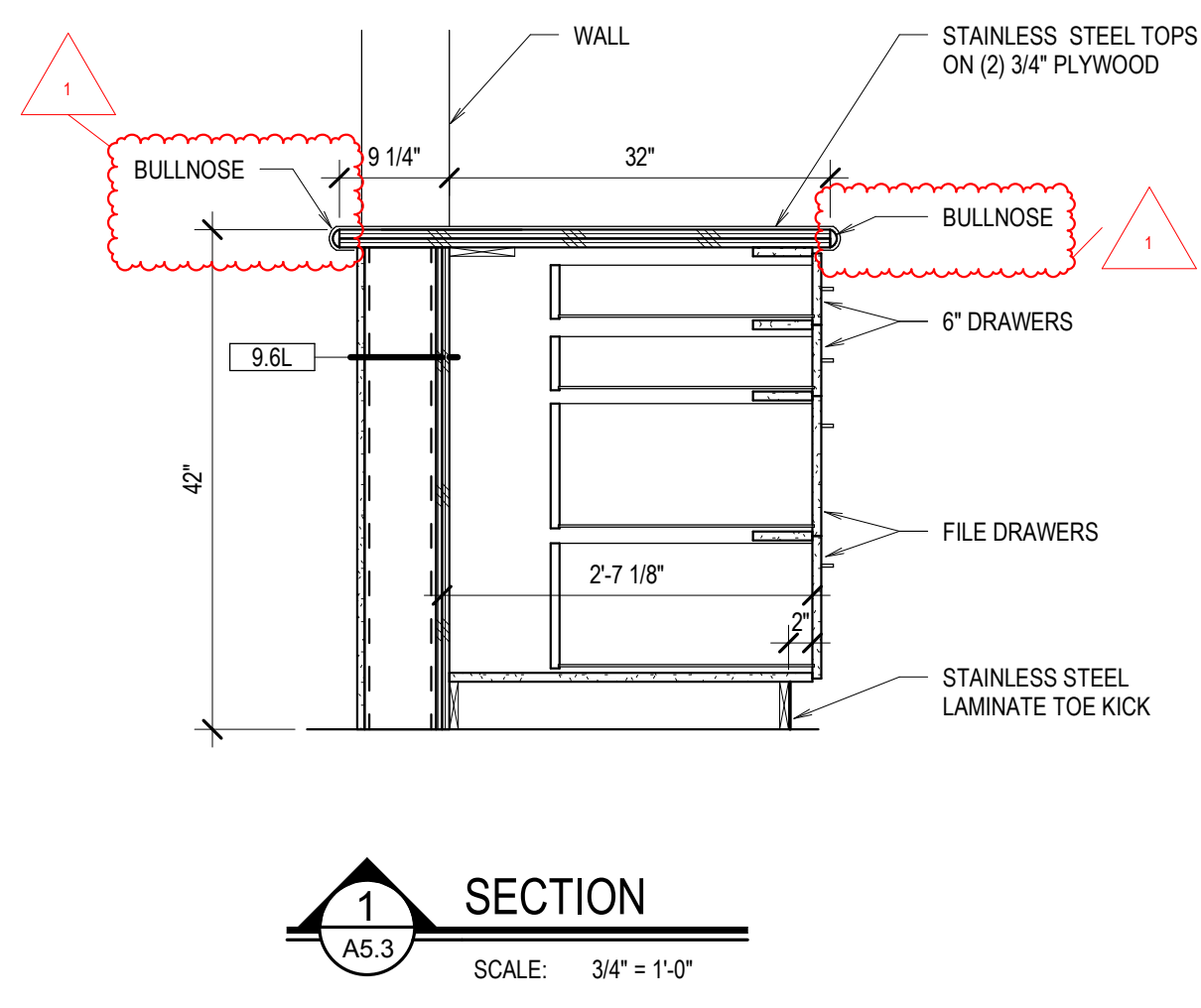
PROJECT: SHEET TITLE:

| REVISIONS | DATE |
|---------------|----------|
| 1 ADDENDUM #1 | 12-16-19 |

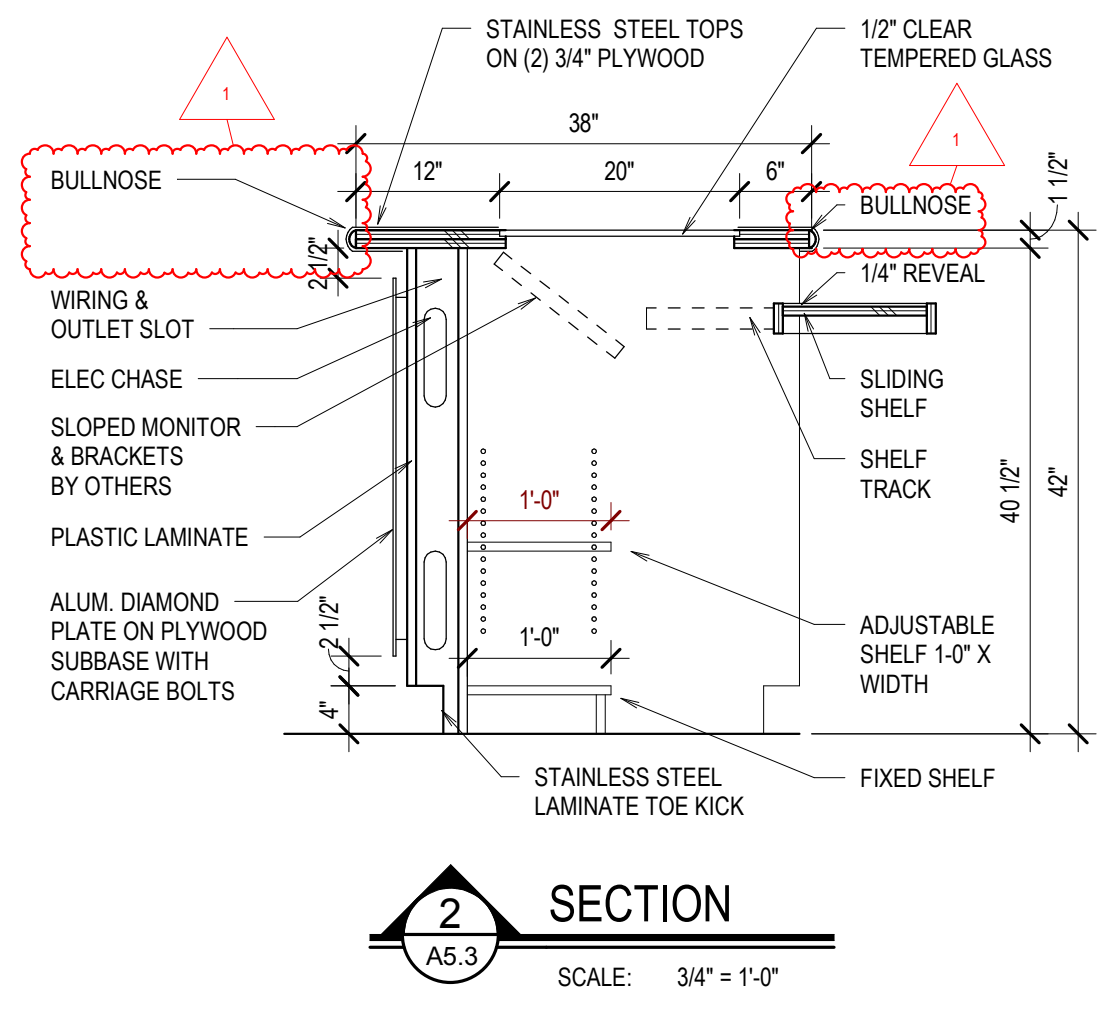
PROJECT NO. 16066
DATE: NOVEMBER 2019
DRAWN BY: BTB
CHECKED BY: GLN

DRAWING NO. AD #1

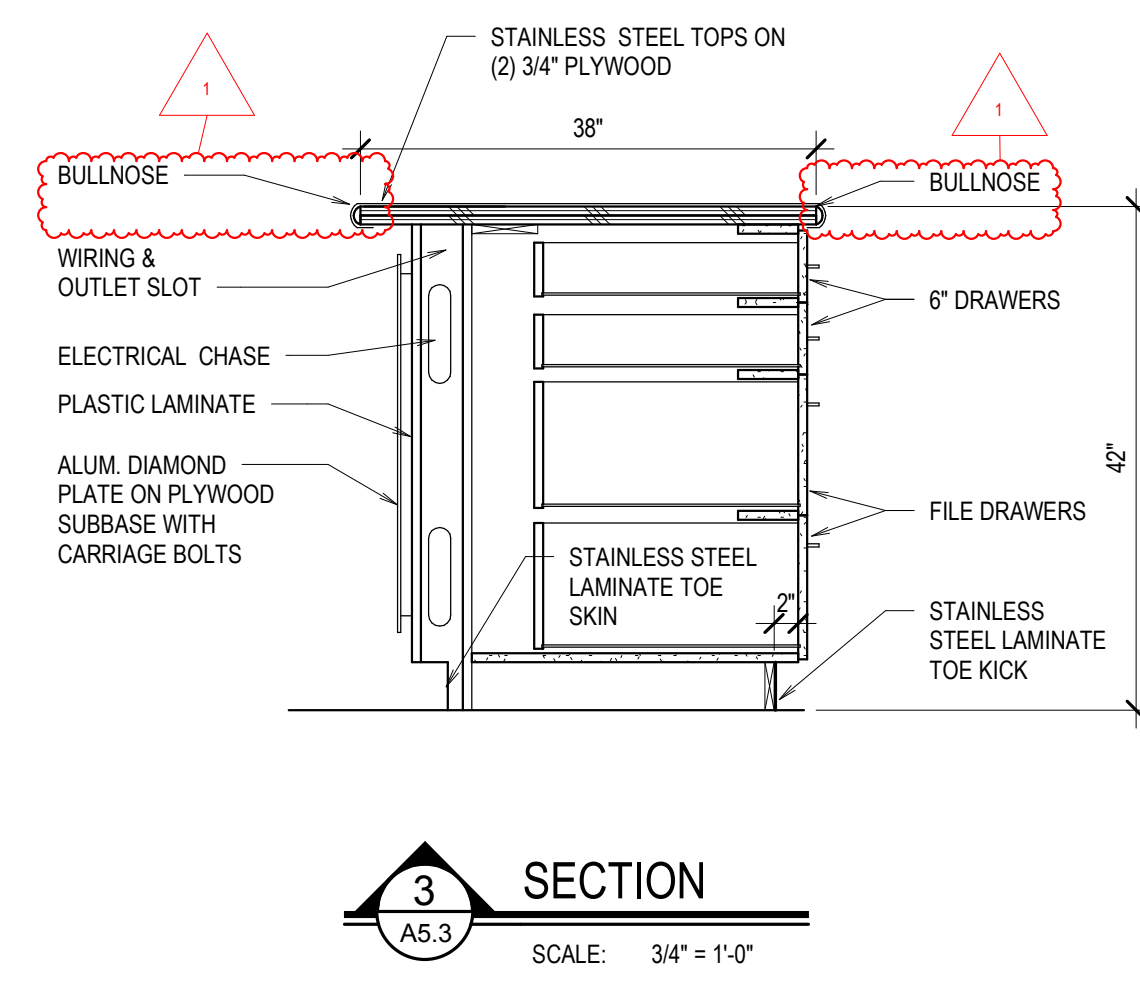
A5.2
REVISED 12-16-19



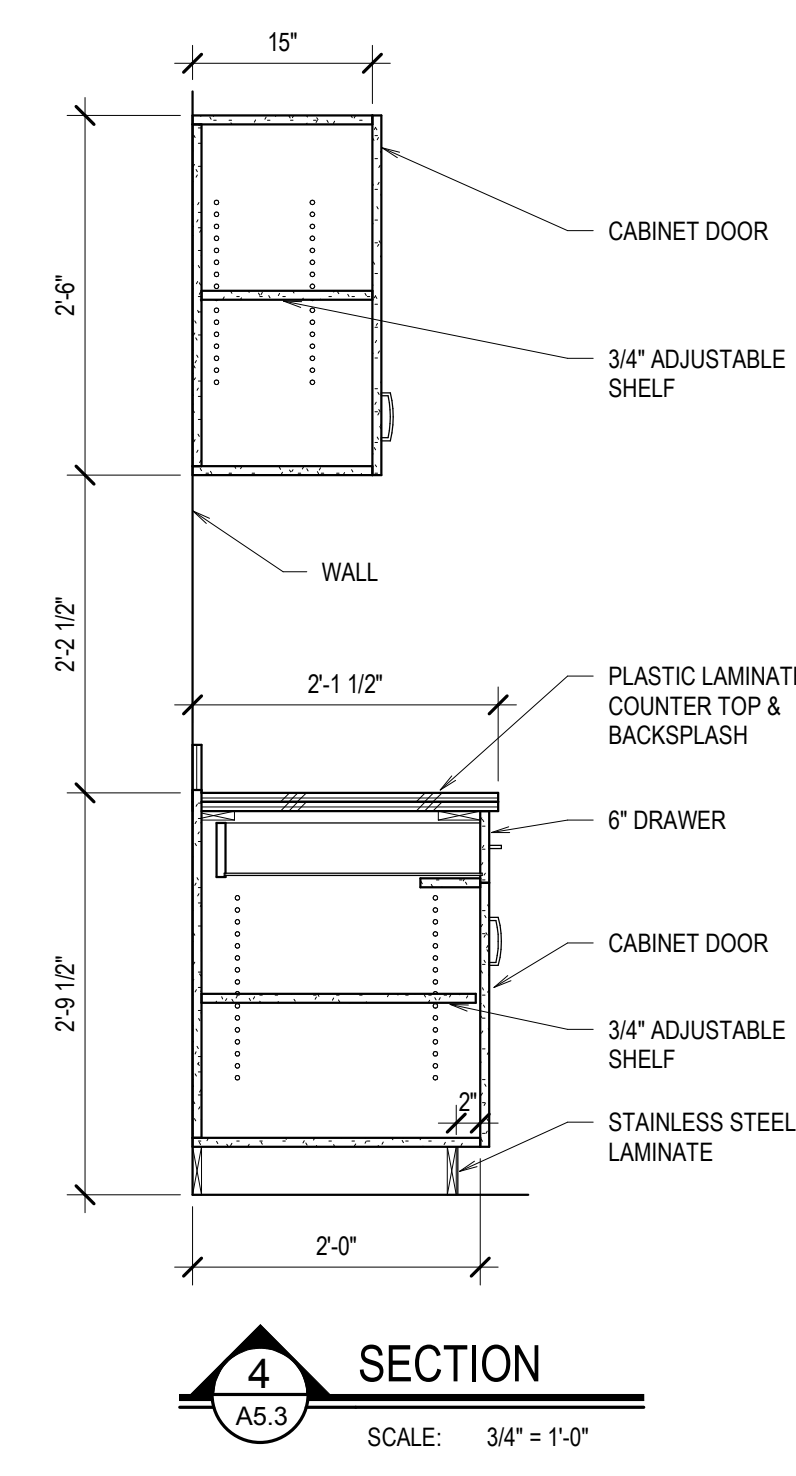
1 SECTION
A5.3 SCALE: 3/4" = 1'-0"



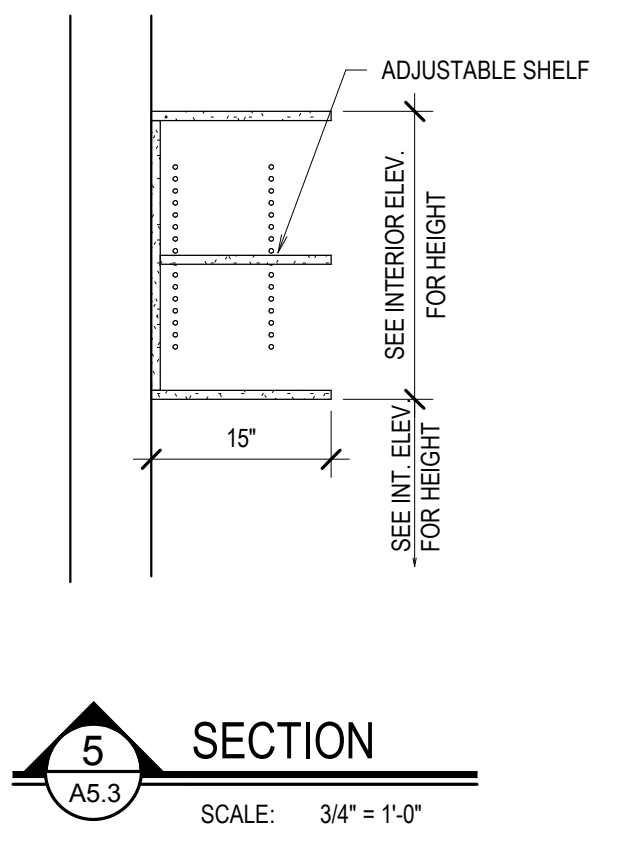
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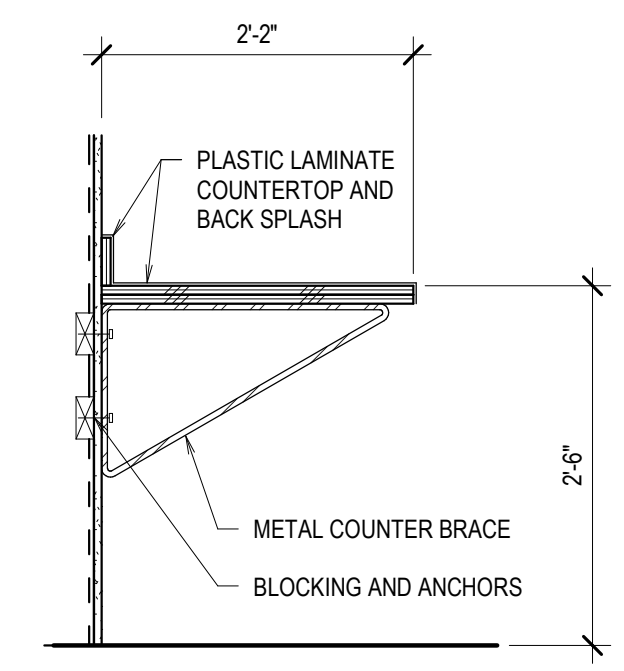
3 SECTION
A5.3 SCALE: 3/4" = 1'-0"



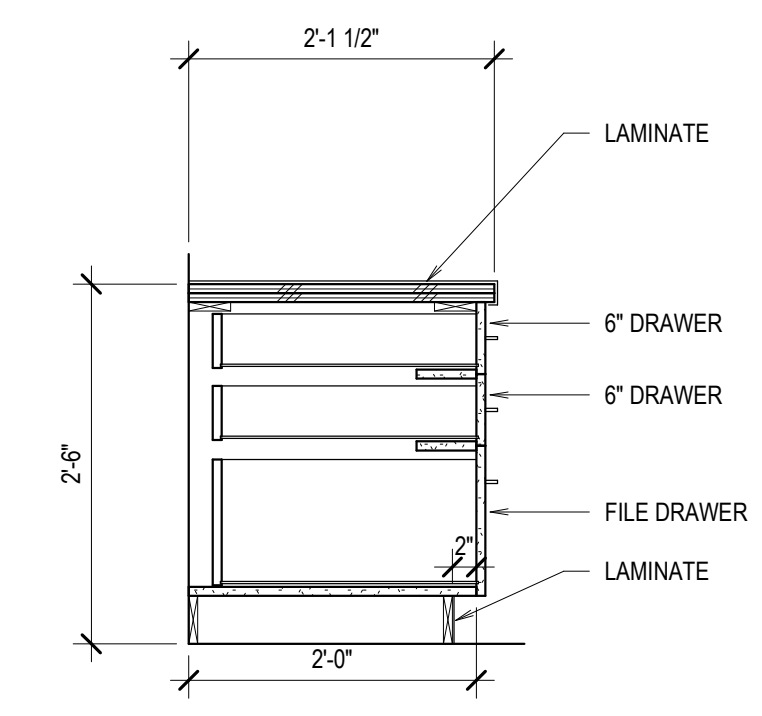
4 SECTION
A5.3 SCALE: 3/4" = 1'-0"



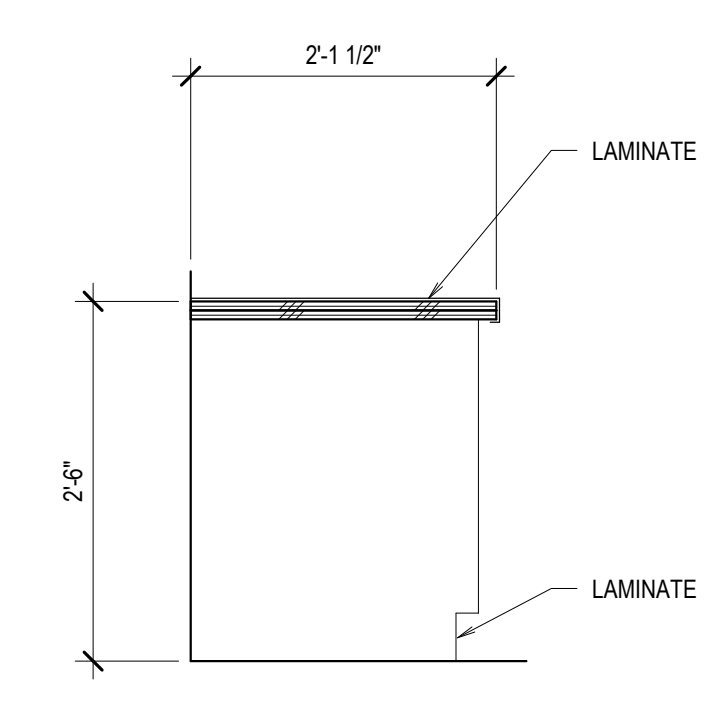
5 SECTION
A5.3 SCALE: 3/4" = 1'-0"



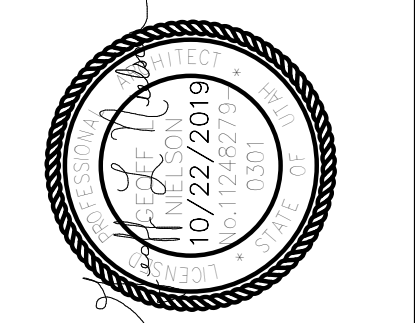
6 SECTION
A5.3 SCALE: 3/4" = 1'-0"



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



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



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A NEW BUILDING FOR:
KENWORTH SALES COMPANY INC.
1750 SOUTH 1350 WEST
WEST HAVEN, UTAH
PROJECT TITLE: CASEWORK SECTIONS & DETAILS

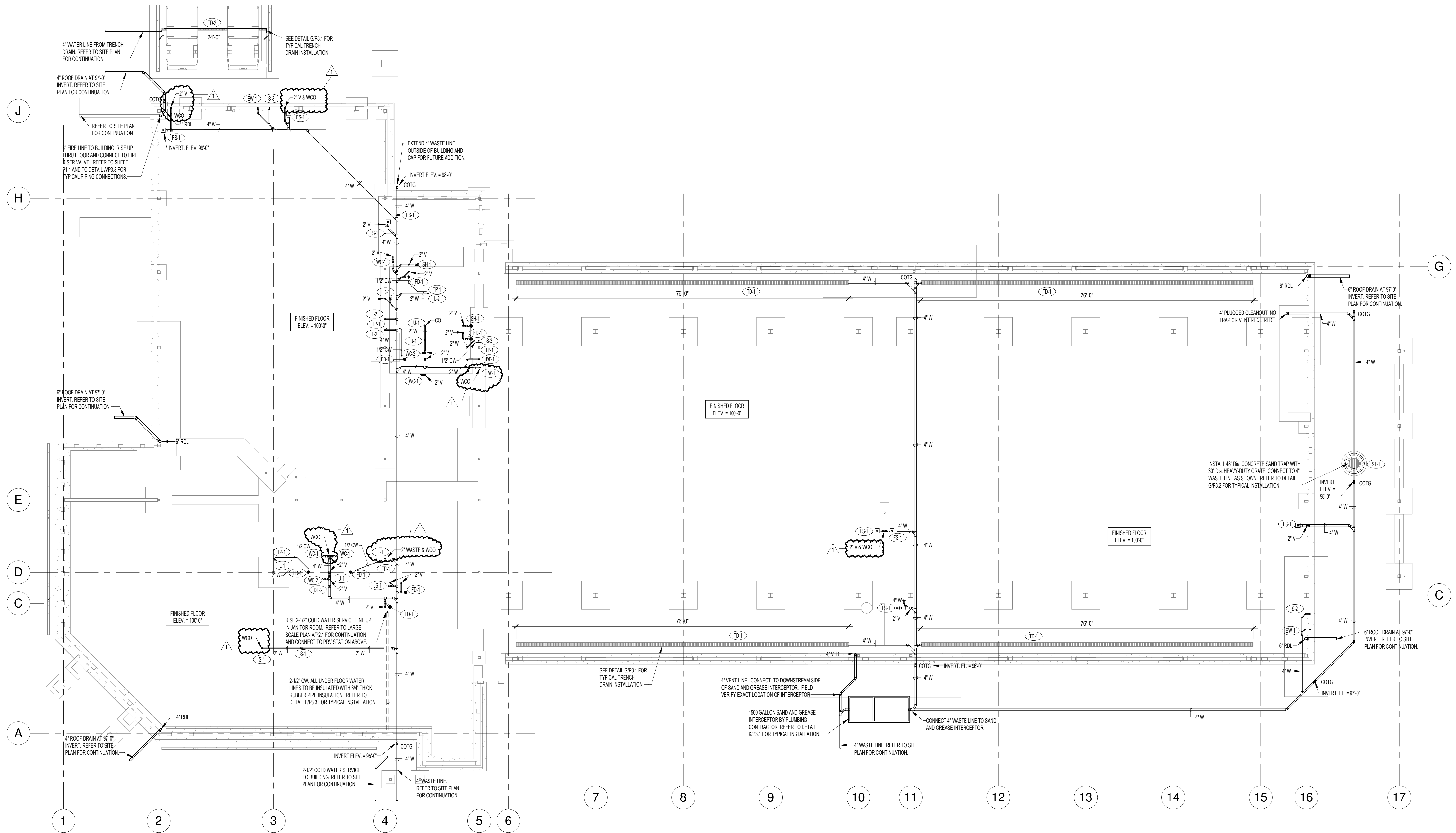
PROJECT: SHEET TITLE: CASEWORK SECTIONS & DETAILS

| NO. | REVISIONS | DATE |
|-----|-------------|----------|
| 1 | ADDENDUM #1 | 12-16-19 |

PROJECT NO. 16066
DATE: NOVEMBER 2019
DRAWN BY: BTH
CHECKED BY: GLN

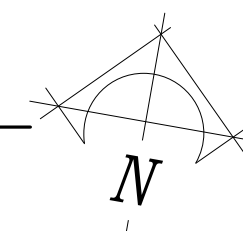
DRAWING NO.: AD #1

A5.3
REVISED 12-16-19



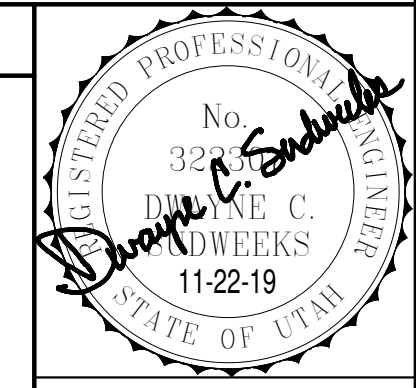
FOUNDATION PLUMBING PLAN

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



GENERAL NOTES:

- A. THE CONTRACTOR SHALL CHECK AND VERIFY ALL DIMENSIONS AND CONNECTIONS ON THE JOB SITE. ALL WORK SHALL BE EXECUTED FROM MEASUREMENTS TAKEN AT THE SITE.
- B. THE MECHANICAL CONTRACTOR SHALL BE RESPONSIBLE TO INSURE PROPER CODE CLEARANCES FOR ELECTRICAL AND MECHANICAL ACCESS WHEN INSTALLING ANY EQUIPMENT SUPPLIED BY THE MECHANICAL CONTRACTOR.
- C. IT IS CRITICAL THAT THIS CONTRACTOR COORDINATE EQUIPMENT LOCATIONS WITH PIPING, DUCTWORK, ELECTRICAL CONDUIT AND BUILDING STRUCTURE TO INSURE CODE COMPLIANCE.
- D. CEILING DIFFUSERS ARE SHOWN IN APPROXIMATE LOCATIONS. REFER TO LIGHTING PLANS AND REFLECTED CEILING PLAN FOR EXACT LOCATIONS.
- E. DUCT DIMENSIONS CALLED OUT ON DRAWINGS ARE INSIDE FREE AREA DIMENSIONS. ACOUSTICAL DUCT LINER ARE TO BE ADDED TO OVERALL MEASUREMENTS.
- F. ALL DUCTWORK AND PIPING WHICH PASSES THRU FIRE RATED WALLS TO BE FIRE STOPPED WITH APPROVED FOAM OR SEALANT. REFER TO SPECIFICATIONS FOR APPROVED MANUFACTURERS.



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 ESA JOB NUMBER: 19035

PROJECT NO. 16066
 DATE: NOVEMBER 2019
 DRAWN BY: M Jensen
 CHECKED BY: D Sudweeks

DRAWING NO.: AD #1

P1.0

REVISED 12-16-19

A NEW BUILDING FOR:
KENWORTH SALES COMPANY INC.
 1750 SOUTH 1350 WEST
 WEST HAVEN, UTAH

FOUNDATION PLUMBING PLAN

PROJECT:

| REVISIONS | |
|-----------|------------------------|
| 1 | ADDENDUM #1 - 12/13/19 |

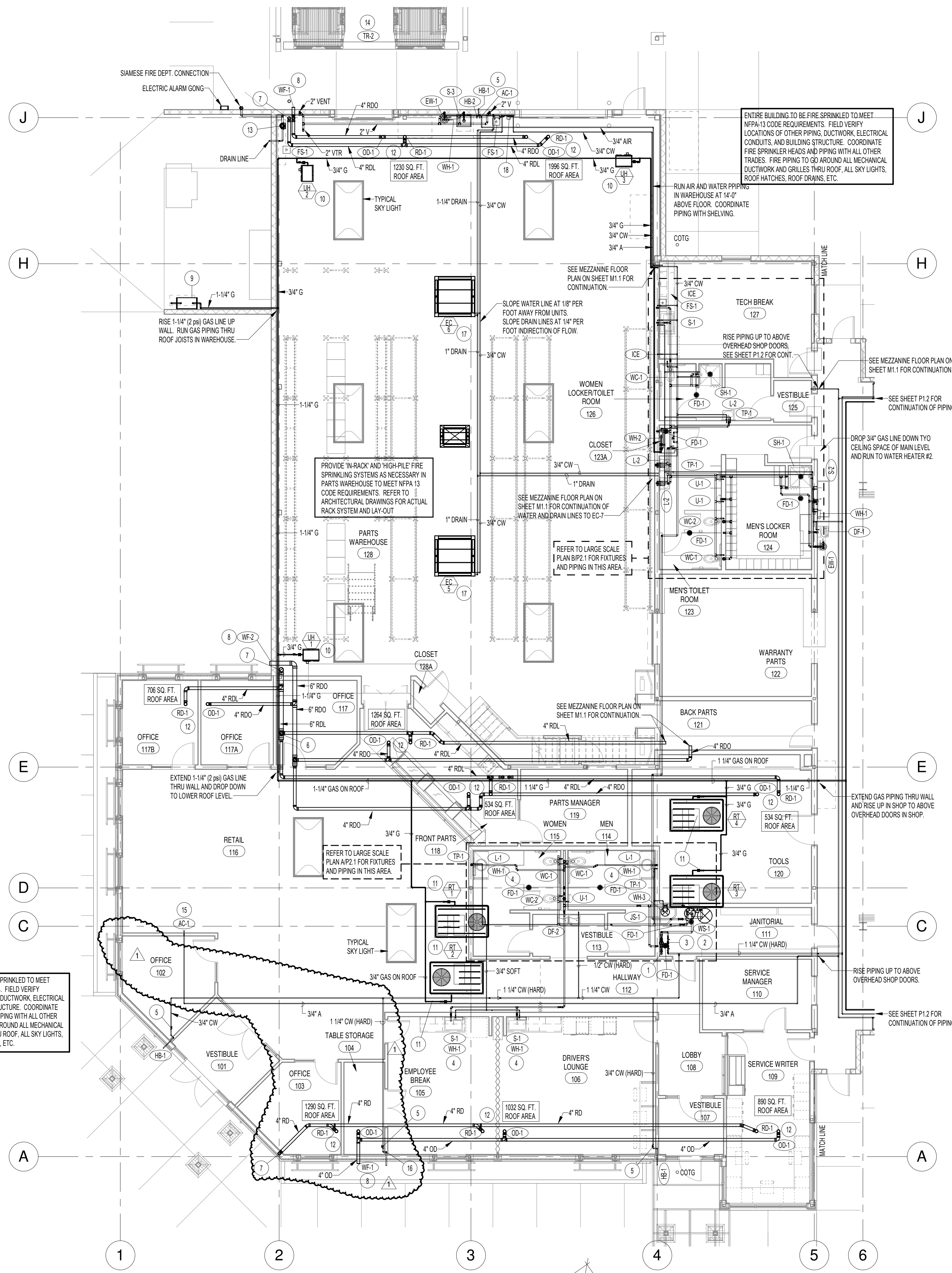
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P1.0

REVISED 12-16-19

nbw architects p.a.
 ARCHITECTURE / PLANNING / INTERIORS
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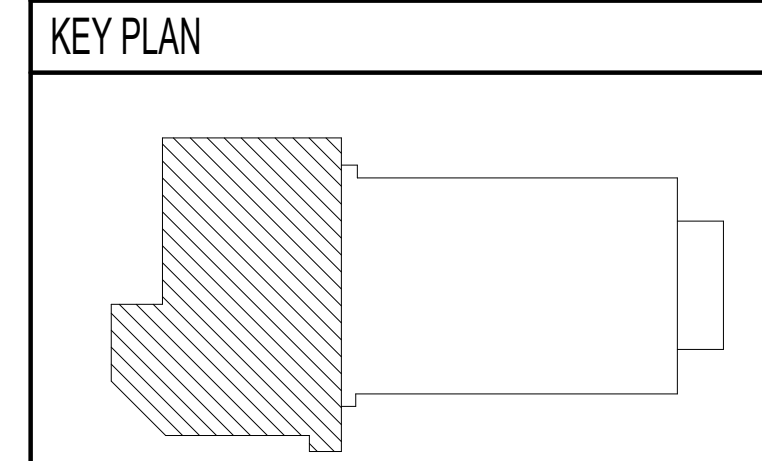
ENTIRE BUILDING TO BE FIRE SPRINKLED TO MEET NFPA-13 CODE REQUIREMENTS. FIELD VERIFY LOCATIONS OF OTHER PIPING, DUCTWORK, ELECTRICAL CONDUITS, AND BUILDING STRUCTURE. COORDINATE FIRE SPRINKLER HEADS AND PIPING WITH ALL OTHER TRADES. FIRE PIPING TO GO AROUND ALL MECHANICAL DUCTWORK AND GRILLES THRU ROOF. ALL SKY LIGHTS, ROOF HATCHES, ROOF DRAINS, ETC.

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PROVIDE IN-RACK AND HIGH-PILE FIRE SPRINKLING SYSTEMS AS NECESSARY IN PARTS WAREHOUSE TO MEET NFPA-13 CODE REQUIREMENTS. REFER TO ARCHITECTURAL DRAWINGS FOR ACTUAL RACK SYSTEM AND LAY-OUT.

- PLAN NOTES:**
- RISE 2-1/2" COLD WATER SERVICE LINE UP THRU FLOOR AND CONNECT TO PRESSURE REDUCING VALVE. REFER TO DETAIL EP3.1 FOR TYPICAL PIPING CONNECTIONS.
 - PROVIDE AND INSTALL SIMPLEX WATER SOFTENER COMPLETE WITH BRINE TANK AND BY PASS VALVE AS SPECIFIED. CONNECT TO 2-1/2" COLD WATER SUPPLY LINE. REFER TO DETAIL FP3.2 FOR TYPICAL PIPING CONNECTIONS.
 - PROVIDE REDUCED PRESSURE BACK-FLOW PREVENTION DEVICE FOR 1-1/4" REPAIR SHOP WATER LINE. LINE TO BE "HARD" WATER. LOCATE DEVICE BELOW CEILING AND PIPE DRAIN LINE TO FLOOR SINK. REFER TO DETAIL AP3.1 FOR TYPICAL INSTALLATION OF DEVICE.
 - PROVIDE AND INSTALL TANKLESS WATER HEATER BELOW CABINET AS SPECIFIED. CONNECT TO FIXTURE AS SHOWN. REFER TO DETAIL BP3.1 FOR TYPICAL PIPING CONNECTIONS.
 - PROVIDE BALL VALVE FOR HOSE BIBB SHUT-OFF. LOCATE VALVE ABOVE ACCESSIBLE CEILING.
 - DROP 4" ROOF DRAIN LINE DOWN FROM HIGH ROOF AND CONNECT TO 8" LINE FROM LOWER ROOF. PIPE CONNECTION TO BE LOCATED BELOW LOWER ROOF AND ABOVE MAIN LEVEL CEILING.
 - DROP ROOF DRAIN LINE DOWN IN CORNER THRU FLOOR. EXTEND THRU EXTERIOR WALL AT 9'-0". REFER TO SITE PLAN FOR CONTINUATION.
 - EXTEND OVERFLOW PIPING THRU WALL AND CONNECT TO WALL FLANGE. KEEP PIPING AS HIGH AS POSSIBLE.
 - GAS METER BY LOCAL GAS COMPANY. METER TO BE SIZED FOR 1,700,000 BTU LOAD WITH 2 psig DISCHARGE PRESSURE TO EQUIPMENT. FIELD VERIFY ACTUAL LOCATION OF METER IN COMPLIANCE WITH ELECTRICAL TRANSFORMERS. MAINTAIN CLEARANCES AS REQUIRED BY CODE.
 - UNIT HEATER PROVIDED AND INSTALLED BY MECHANICAL CONTRACTOR. PLUMBING CONTRACTOR TO ROUGH-IN AND CONNECT 3/4" GAS LINE WITH PRESSURE REGULATOR, SHUT-OFF VALVE, AND FLEXIBLE HOSE. REFER TO DETAIL AP2.2 FOR TYPICAL PIPING CONNECTIONS.
 - ROOF TOP EQUIPMENT SUPPLIED AND INSTALLED BY MECHANICAL CONTRACTOR. PLUMBING CONTRACTOR TO CONNECT 3/4" GAS LINE (2 psig) TO EQUIPMENT. PROVIDE PRESSURE REGULATOR, SHUT-OFF VALVE AND FLEXIBLE HOSE AT POINT OF CONNECTION. REFER TO DETAIL BP2.2 FOR TYPICAL PIPING CONNECTIONS.
 - PROVIDE AND INSTALL ROOF DRAIN AND OVERFLOW DRAIN AS SPECIFIED. CONNECT 4" DRAIN LINE TO EACH AND RUN THRU JOIST SPACE AS SHOWN. GRADE ROOF DRAIN AND OVERFLOW DRAIN LINES AT 1/8" SLOPE PER FOOT IN DIRECTION OF FLOW. KEEP PIPING AS HIGH AS POSSIBLE.
 - 6" FIRE LINE UP THRU FLOOR. CONNECT TO FIRE RISE AND ALARM VALVE. REFER TO DETAIL AP3.3 FOR TYPICAL PIPING CONNECTIONS.
 - PROVIDE AND INSTALL TRENCH DRAIN AS SPECIFIED. PROVIDE SLOPING SECTIONS AS REQUIRED FOR LENGTH SHOWN ON SHEET P1.0 AND IN FIXTURE SCHEDULE. CONNECT 4" WASTE LINE TO END OF TRENCH. REFER TO SHEET P1.0 FOR WASTE LINE CONNECTIONS AND LENGTH OF EACH TRENCH DRAIN.
 - AIR OUTLET FOR AUTOMATIC DISPLAY CHAIR. COORDINATE ACTUAL LOCATION WITH OWNER TO MATCH SEAT LOCATION.
 - DROP 1" COLD WATER (HARD) DOWN IN WALL TO 8" BELOW PLANTER BOX GRADE LEVEL. EXTEND OUT THRU EXTERIOR WALL AND CAP FOR FUTURE IRRIGATION SYSTEM.
 - RISE 3/4" COLD WATER LINE UP THRU ROOF AND CONNECT TO EVAPORATIVE COOLER. GRADE WATER LINE AT 1/8" SLOPE PER FOOT AWAY FROM EVAPORATIVE COOLERS. DROP 1" DRAIN LINE FROM UNIT DOWN THRU ROOF AND RUN THRU ROOF JOIST SPACE AS SHOWN. GRADE DRAIN LINE AT 1/4" PER FOOT IN DIRECTION OF FLOW. BACK TO FLOOR SINK AS SHOWN.
 - DROP 3/4" COLD WATER LINE DOWN TO 4'-0" ABOVE FLOOR AND PROVIDE SHUT-OFF VALVE AND DRAIN VALVE FOR EVAPORATIVE COOLERS LOCATED ON ROOF. REFER TO PIPING DIAGRAM DP3.1 FOR TYPICAL PIPING CONNECTIONS. RUN 3/4" DRAIN LINE TO FLOOR SINK. CONNECT PROTECTED WATER PIPING TO HB-1, HB-2 (FLYWHEEL GRINDER), S-3, EW-1 IN THIS AREA, AS WELL AS EC-5, EC-6, AND EC-7 AT ROOF LEVEL.

ALL COMPRESSED AIR PIPING THROUGHOUT THE BUILDING TO BE BID AS ALTERNATE #1.



GENERAL NOTES:

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REGISTERED PROFESSIONAL ENGINEER
No. 32146
DANIEL C. SUDWEEKS
11-22-19
STATE OF UTAH

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PROJECT NO. 16066
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DRAWN BY: M Jensen
CHECKED BY: D Sudweeks

DRAWING NO.: AD #1

P1.1

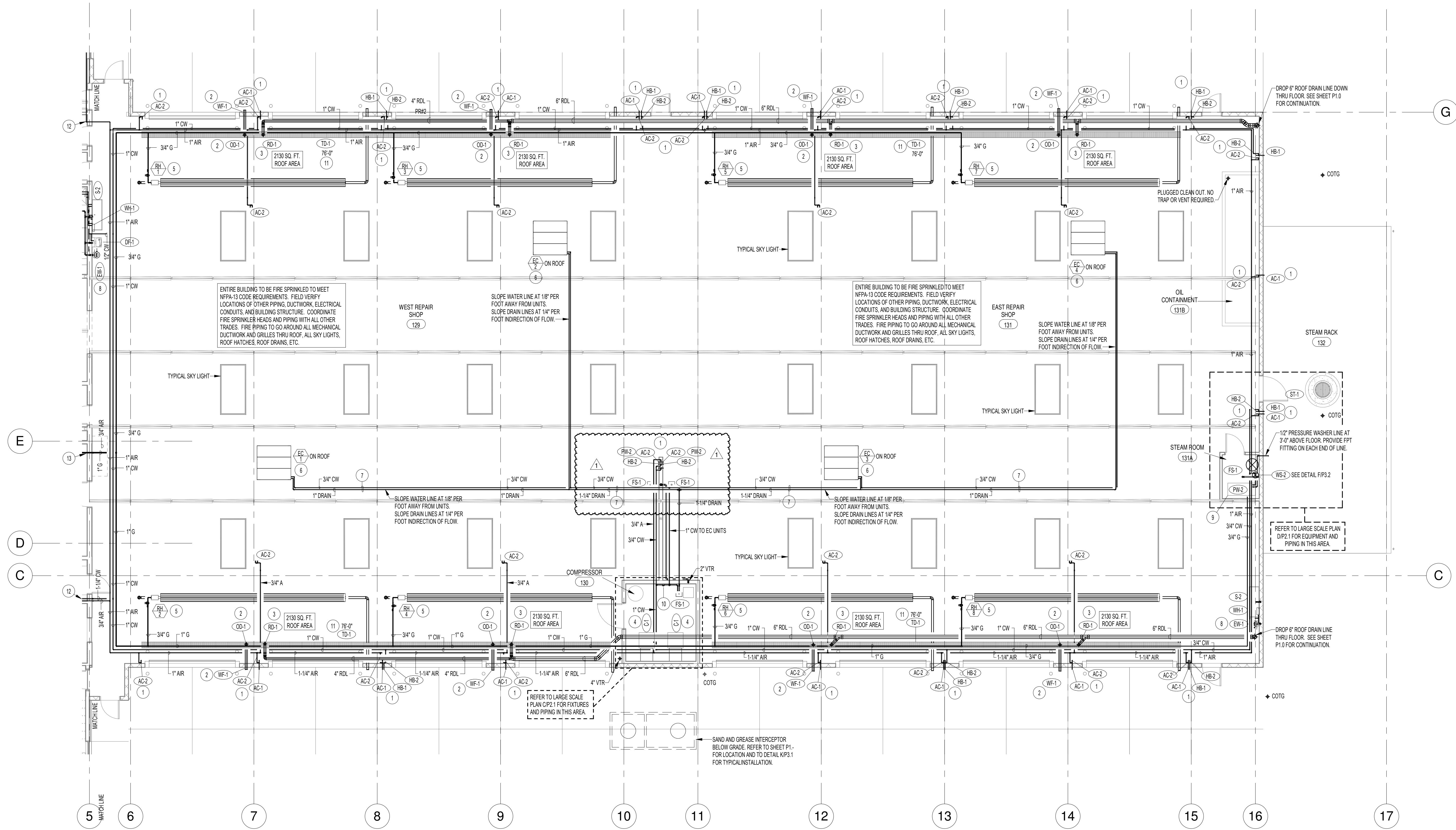
REVISED 12-16-19

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ARCHITECTURE / PLANNING / INTERIORS
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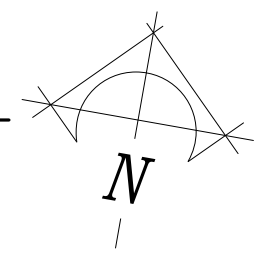
A NEW BUILDING FOR:
KENWORTH SALES COMPANY INC.
1750 SOUTH 1350 WEST
WEST HAVEN, UTAH
PLUMBING PLAN - PART 1

PROJECT: KENWORTH SALES COMPANY INC.
REVISIONS:
1 ADDENDUM #1 - 12/13/19

12/16/2019 8:21:10 AM Kenworth Ogden (MSP)_detached.rvt



PLUMBING FLOOR PLAN - PART 2
SCALE: 1/8" = 1'-0"

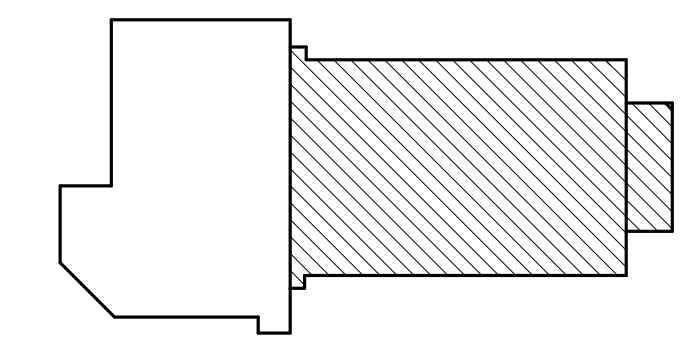


PLAN NOTES:

- 1 PROVIDE AND INSTALL COMPRESSED AIR OUTLETS (S) AND/OR HOSE BIBBS (S) AS SPECIFIED. AIR OUTLETS TO BE MOUNTED AT 4'-0" ABOVE FLOOR ON INTERIOR OF BUILDING AND 3'-0" ABOVE GRADE ON EXTERIOR OF BUILDING. REFER TO DETAIL CP2.2 FOR TYPICAL INSTALLATION OF AIR OUTLETS. MOUNT COLD WATER HOSE BIBBS AT 2'-0" ABOVE FLOOR ON INTERIOR OF BUILDING AND 1'-6" ABOVE GRADE ON EXTERIOR OF BUILDING. REFER TO DETAIL EP3.2 FOR TYPICAL INSTALLATION OF HOSE BIBBS IN SHOP AREA. RISE 3/4" AIR AND 3/4" COLD WATER LINE UP WALL AND CONNECT TO CORRESPONDING OVERHEAD PIPING.
- 2 PROVIDE AND INSTALL OVERFLOW DRAIN AS SPECIFIED. CONNECT 4" DRAIN LINE AND RUN THRU EXTERIOR WALL TO WITH WALL FLANGE AS SPECIFIED. MOUNT WALL FLANGE AS HIGH AS POSSIBLE. COORDINATE LOCATION WITH BUILDING STRUCTURE. OTHER PIPING AND DUCTWORK. GRADE ROOF DRAIN AND OVERFLOW DRAIN LINES AT 1/8" SLOPE PER FOOT IN DIRECTION OF FLOW. KEEP PIPING AS HIGH AS POSSIBLE.
- 3 PROVIDE AND INSTALL ROOF DRAINS AS SPECIFIED. CONNECT 4" DRAIN LINE AND RUN THRU JOIST SPACE AS SHOWN. COORDINATE LOCATION WITH BUILDING STRUCTURE. OTHER PIPING AND DUCTWORK. GRADE ROOF DRAIN AND OVERFLOW DRAIN LINES AT 1/8" SLOPE PER FOOT IN DIRECTION OF FLOW. KEEP PIPING AS HIGH AS POSSIBLE.
- 4 AIR COMPRESSORS FURNISHED BY OWNER AND INSTALLED BY CONTRACTOR. REFER TO DETAIL LP3.2 FOR TYPICAL PIPING CONNECTIONS. FIELD VERIFY WITH MANUFACTURER'S RECOMMENDATIONS FOR EQUIPMENT PROVIDED.
- 5 RADIANT TUBE HEATERS PROVIDED AND INSTALLED BY MECHANICAL CONTRACTOR. PLUMBING CONTRACTOR TO ROUGH-IN AND CONNECT 3/4" GAS LINE TO COMPLETE WITH PRESSURE REGULATOR, SHUT-OFF VALVE AND FLEXIBLE HOSE FOR CONNECTION. REFER TO DETAIL AP2.2 FOR TYPICAL PIPE CONNECTIONS AND TO SHEET M3.2 FOR EQUIPMENT INSTALLATION.
- 6 RISE 3/4" COLD WATER LINE UP THRU ROOF AND CONNECT TO EVAPORATIVE COOLER. GRADE WATER LINE AT 1/8" PER FOOT AWAY FROM EVAPORATIVE COOLERS. DROP 1" DRAIN LINE FROM UNIT DOWN THRU ROOF AND RUN THRU JOIST SPACE AS SHOWN. GRADE DRAIN LINE AT 1/4" SLOPE PER FOOT IN DIRECTION OF FLOW BACK TO FLOOR SINK.
- 7 RUN DRAIN LINES AND COLD WATER LINE THRU JOIST SPACE. COORDINATE ROUTING WITH BUILDING STRUCTURE. OTHER PIPING AND DUCTWORK. SLOPE DRAIN LINES AT 1/4" PER FOOT BACK TO FLOOR SINK.
- 8 PROVIDE AND INSTALL WALL MOUNTED EMERGENCY EYEWASH STATION AS SPECIFIED. CONNECT TO 1/2" COLD WATER LINE AND TO 1-1/2" WASTE AND VENT PIPING. REFER TO DETAIL DP3.2 FOR TYPICAL INSTALLATION.
- 9 PRESSURE WASHER PROVIDED AND INSTALLED BY VENDOR. PLUMBING CONTRACTOR TO ROUGH-IN AND CONNECT 3/4" GAS LINE (2 psig) COMPLETE WITH PRESSURE REGULATOR, SHUT-OFF VALVE AND FLEXIBLE HOSE FOR CONNECTION. REFER TO DETAIL DP3.1 FOR TYPICAL GAS LINE CONNECTION. PLUMBING CONTRACTOR TO ALSO ROUGH-IN AND CONNECT 1" COLD WATER LINE COMPLETE WITH SHUT-OFF VALVE AND FLEXIBLE HOSE FOR CONNECTION. FIELD VERIFY EXACT LINE SIZES AND LOCATION WITH EQUIPMENT PROVIDED.
- 10 DROP 1" COLD WATER LINE DOWN TO 4'-0" AND PROVIDE SHUT-OFF VALVE AND DRAIN VALVE FOR EVAPORATIVE COOLERS LOCATED ON ROOF. REFER TO DIAGRAM DP3.1 FOR PIPING CONNECTIONS. RUN 1" DRAIN LINE TO FLOOR SINK.
- 11 PROVIDE AND INSTALL PRE-FABRICATED TRENCH DRAIN AS SPECIFIED. REFER TO SHEET P1.0 FOR DRAIN LENGTHS AND TO DETAIL GP3.1 FOR TYPICAL INSTALLATION.
- 12 DROP PIPING DOWN WALL AND EXTEND INTO CEILING SPACE OF MAIN LEVEL. SEE SHEET P1.1 FOR CONTINUATION.
- 13 DROP GAS LINE DOWN AND EXTEND THRU WALL ABOVE LOWER ROOF. SEAL WALL PENETRATION WATER TIGHT. REFER TO SHEET P1.1 FOR CONTINUATION.

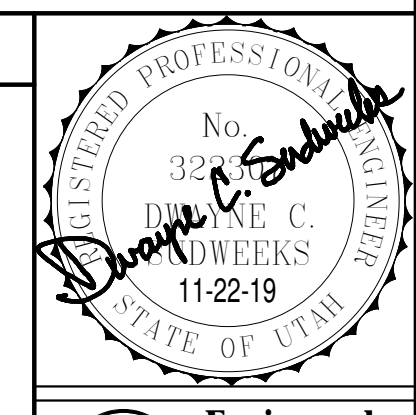
ALL COMPRESSED AIR PIPING THROUGHOUT THE BUILDING TO BE BID AS ALTERNATE #1.

KEY PLAN



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PROJECT NO. 16066
DATE: NOVEMBER 2019
DRAWN BY: M Jensen
CHECKED BY: D Sandweck

DRAWING NO.: AD #1

P1.2
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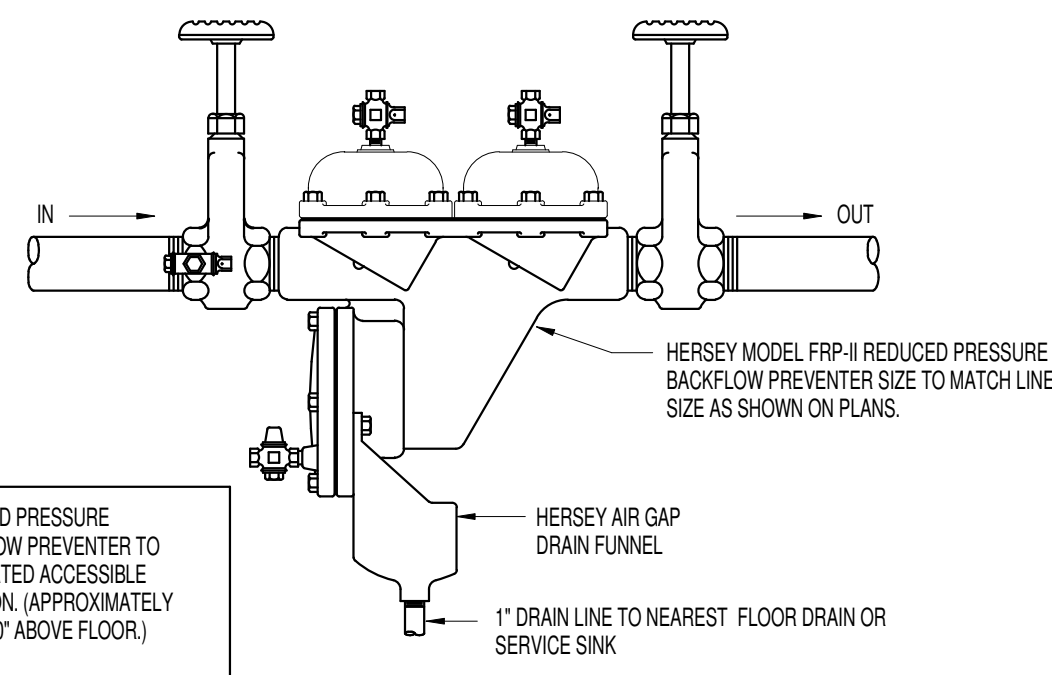
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A NEW BUILDING FOR:
KENWORTH SALES COMPANY INC.
1750 SOUTH 1350 WEST
WEST HAVEN, UTAH
PLUMBING PLAN - PART 2

PROJECT:
SHEET TITLE:

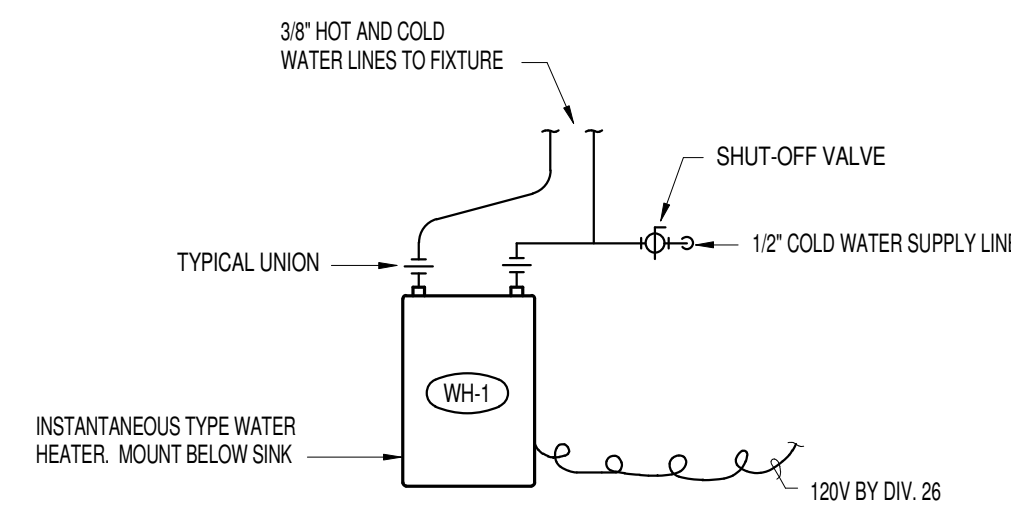
REVISIONS

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| 1 | ADDENDUM #1 - 12/13/19 |
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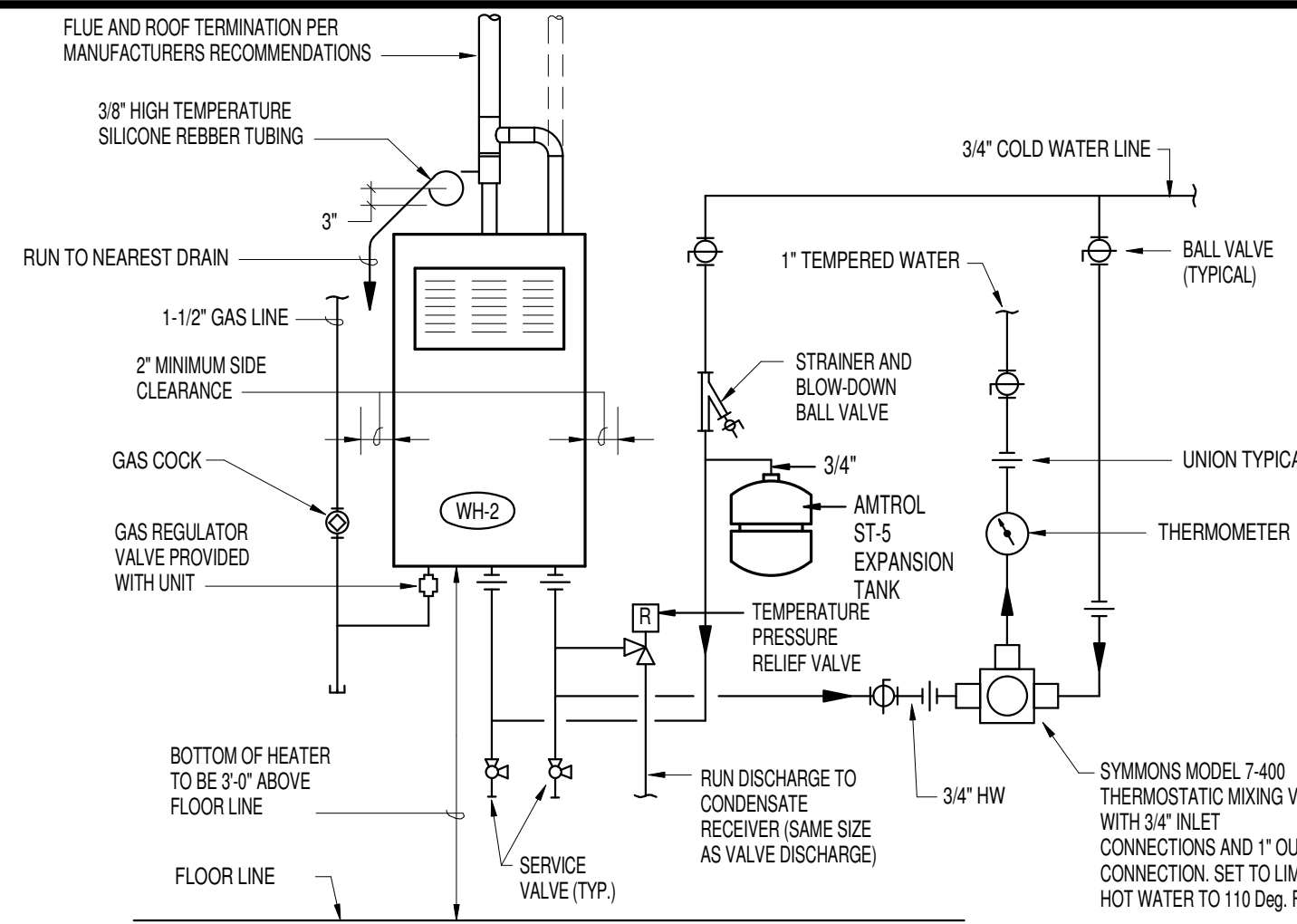
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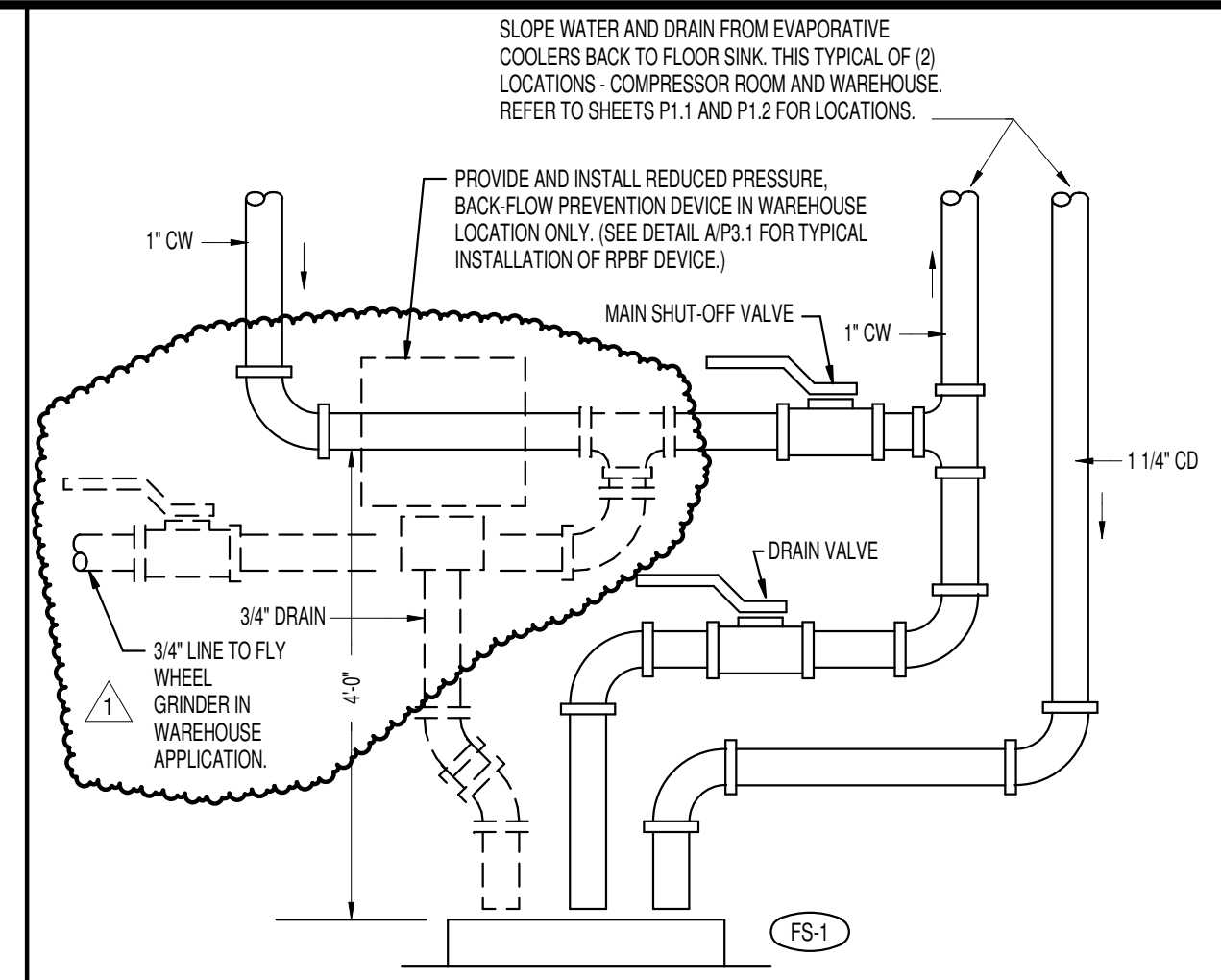
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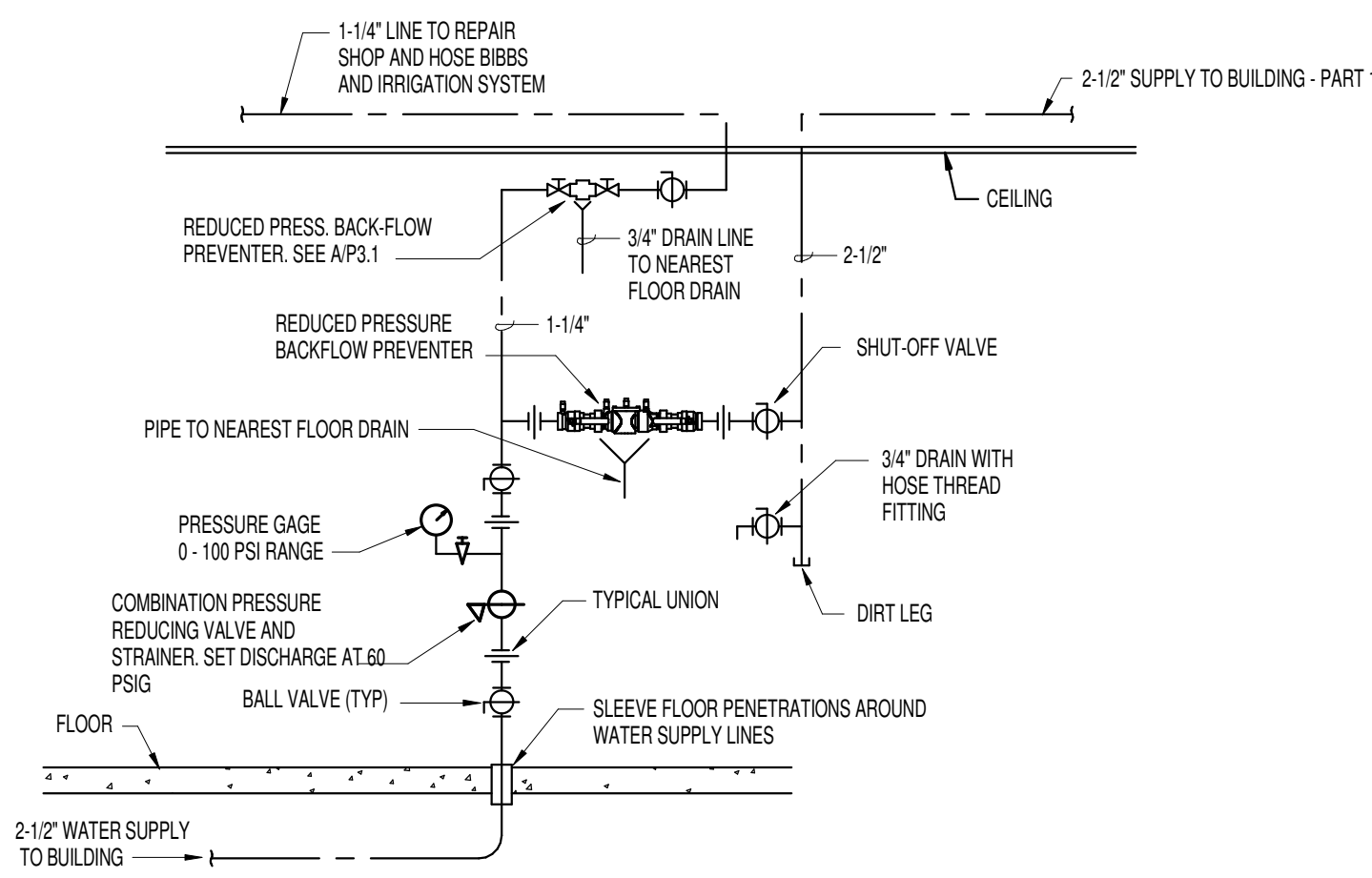
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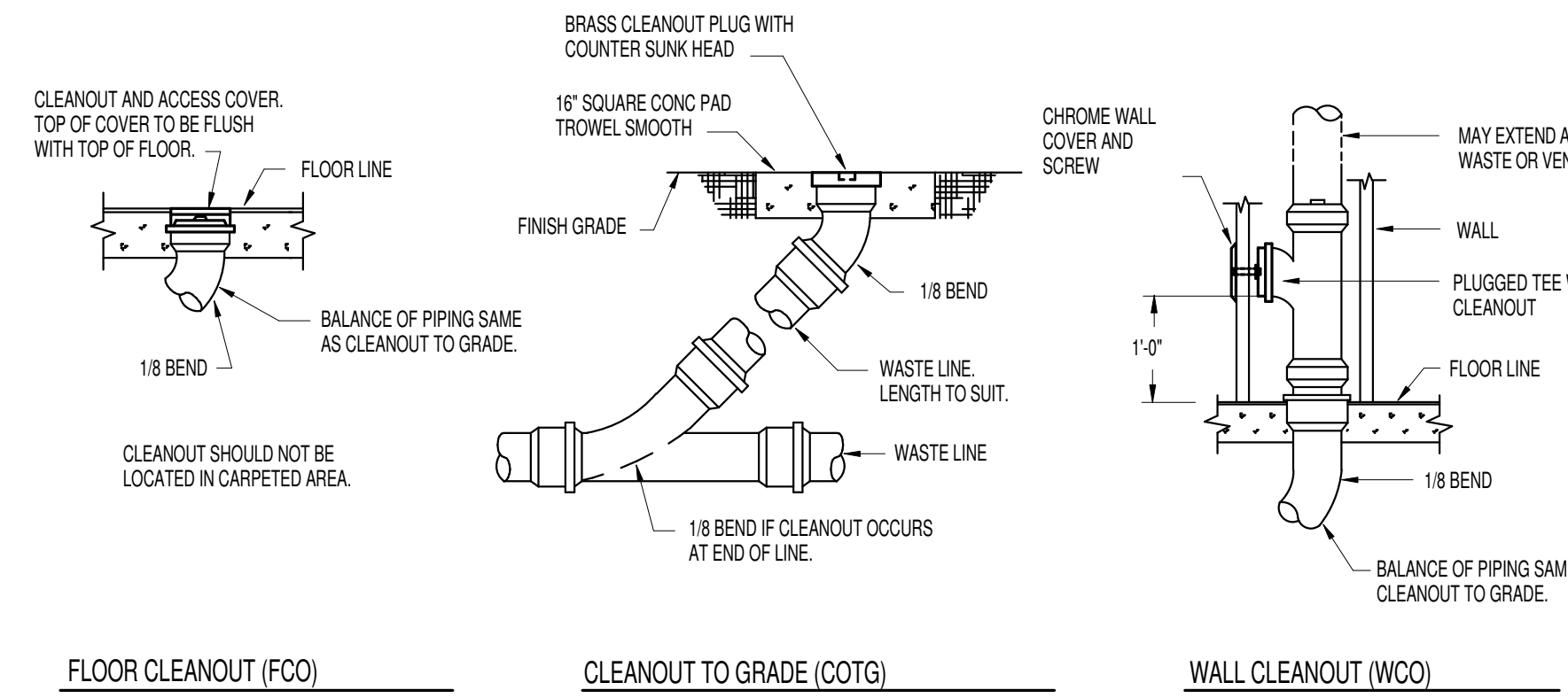
D EVAPORATIVE COOLER VALVE DIAGRAM

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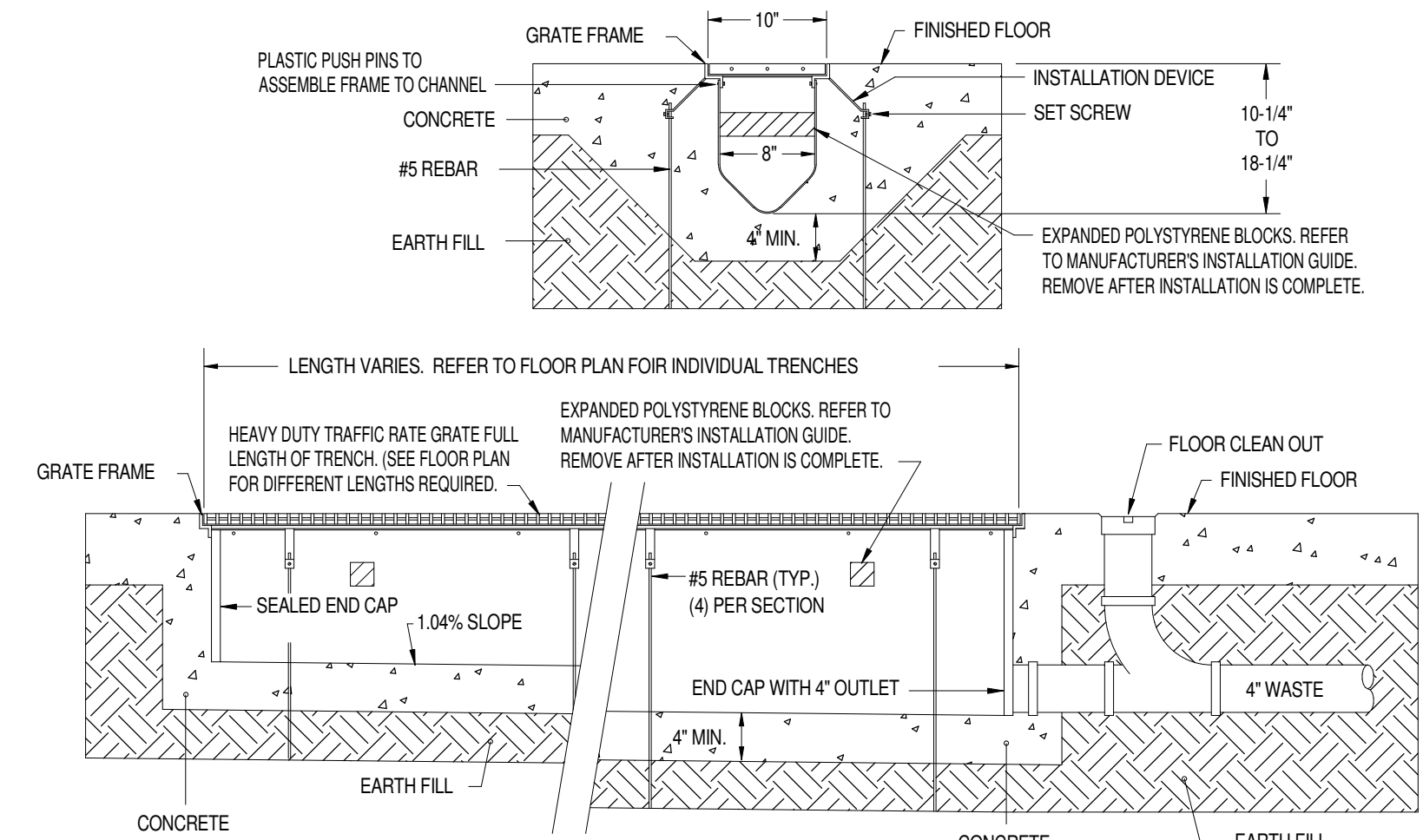
E WATER PRESSURE REDUCING STATION

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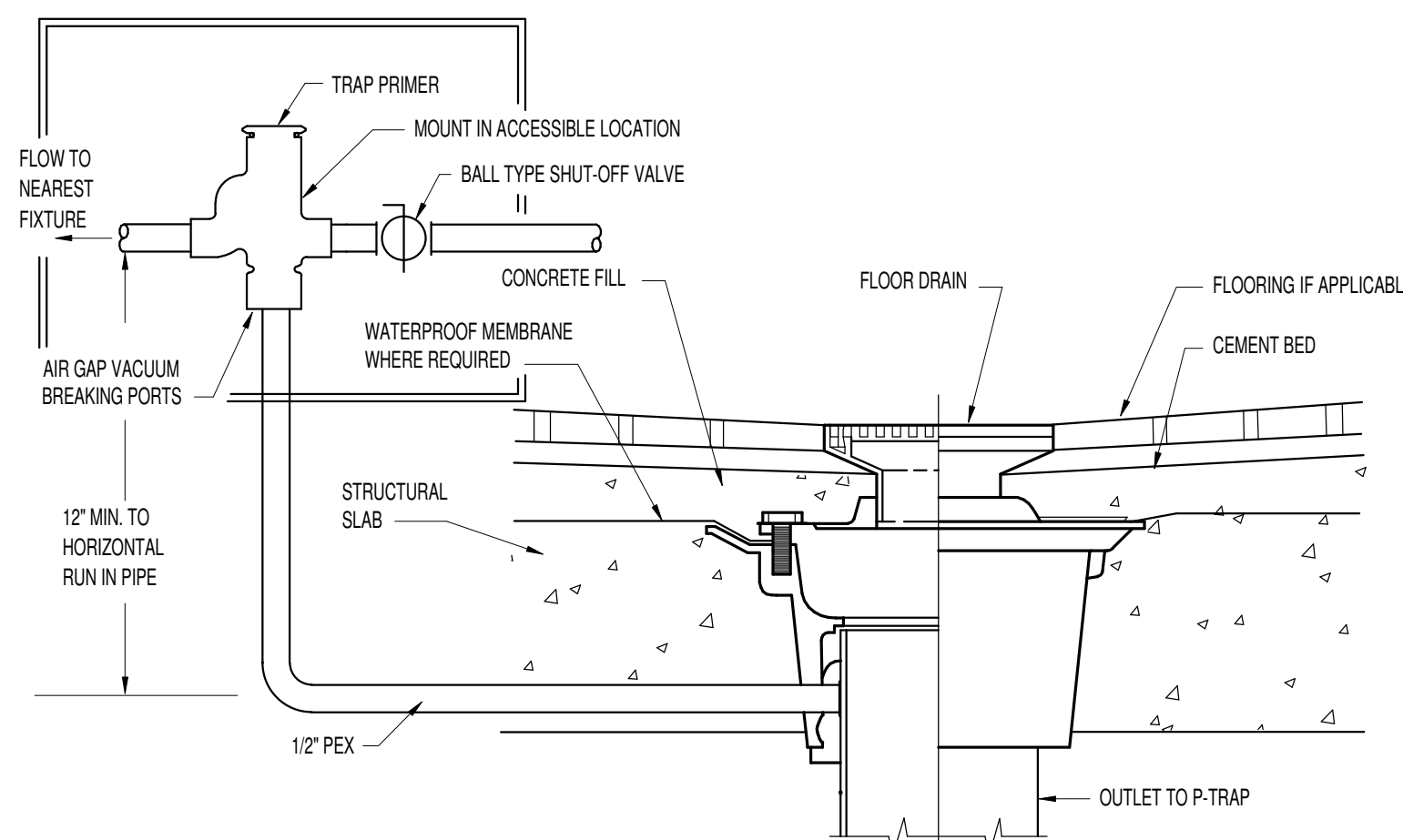
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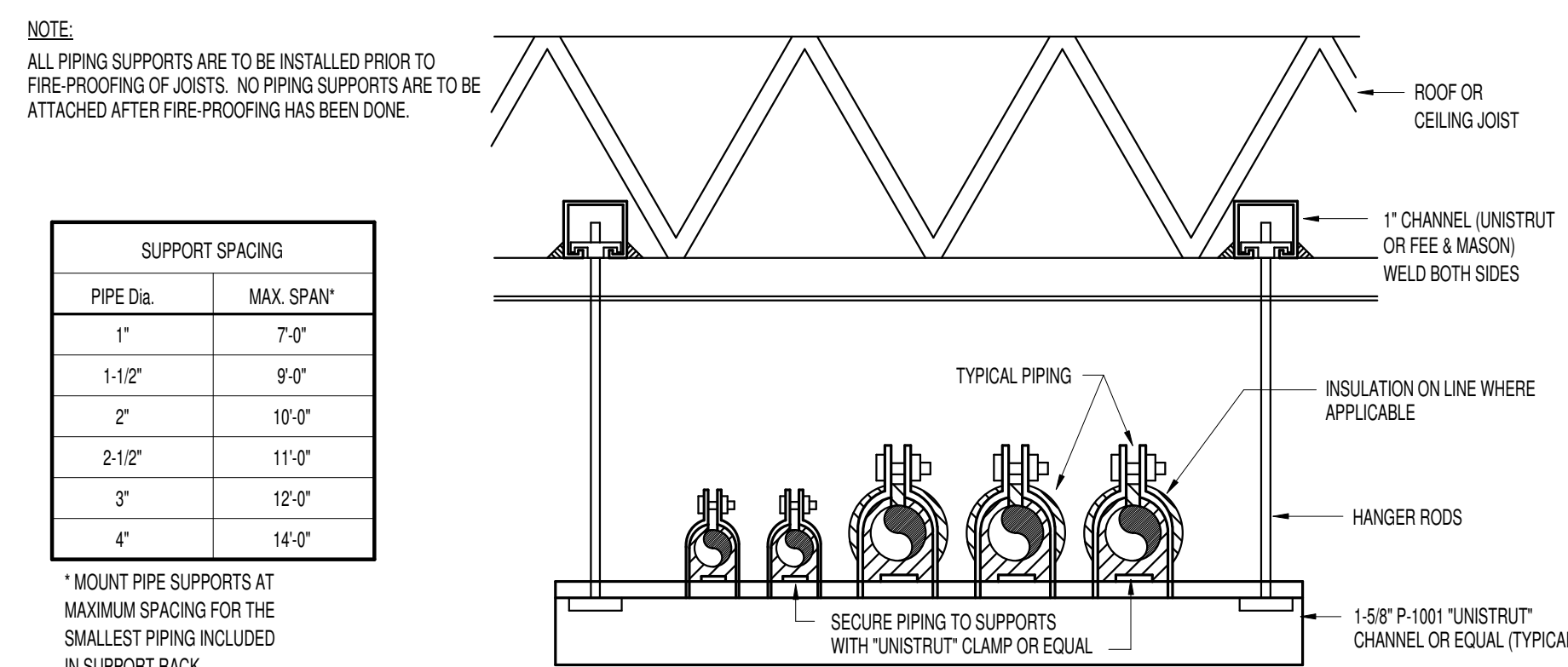
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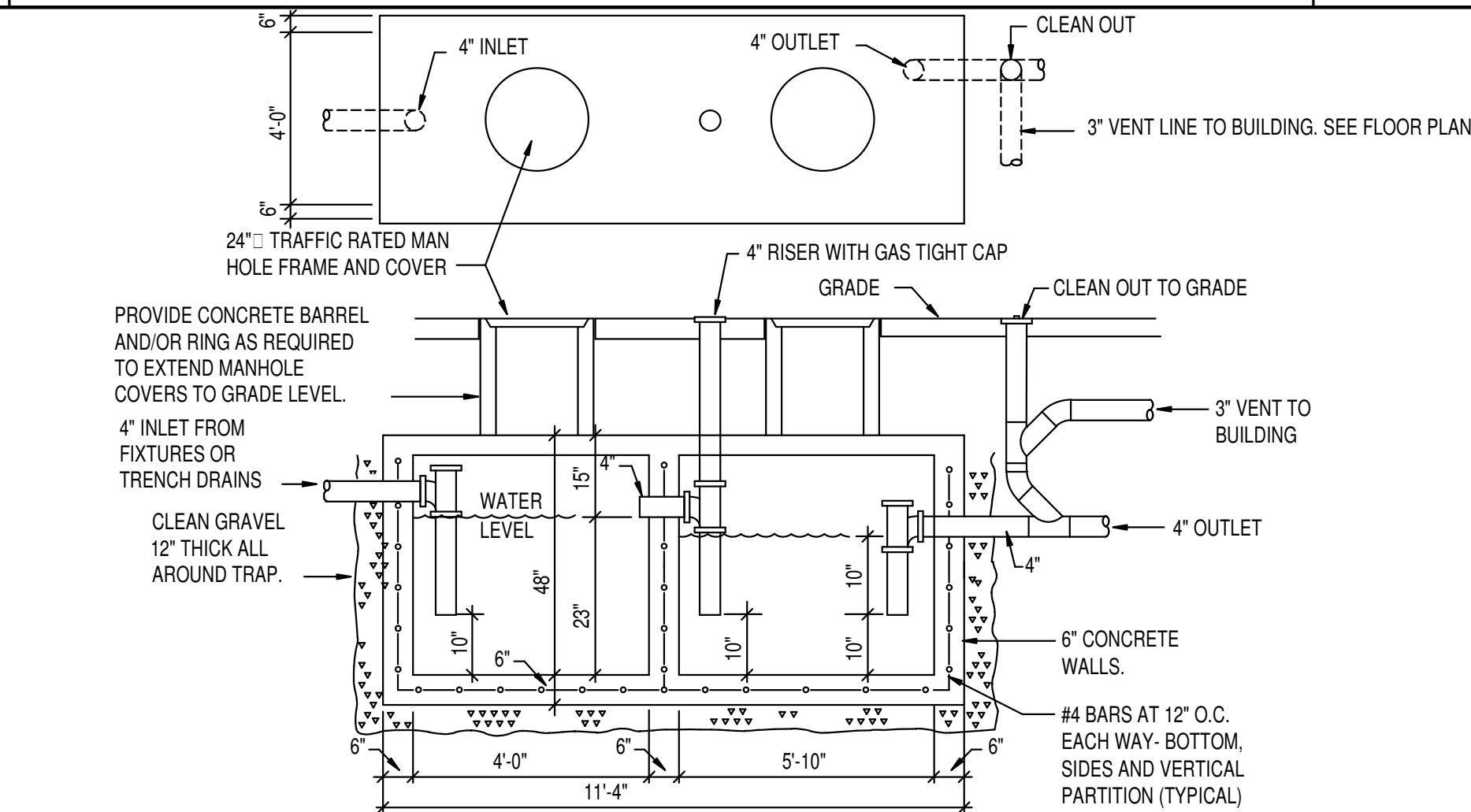
H TRAP PRIMER DETAIL

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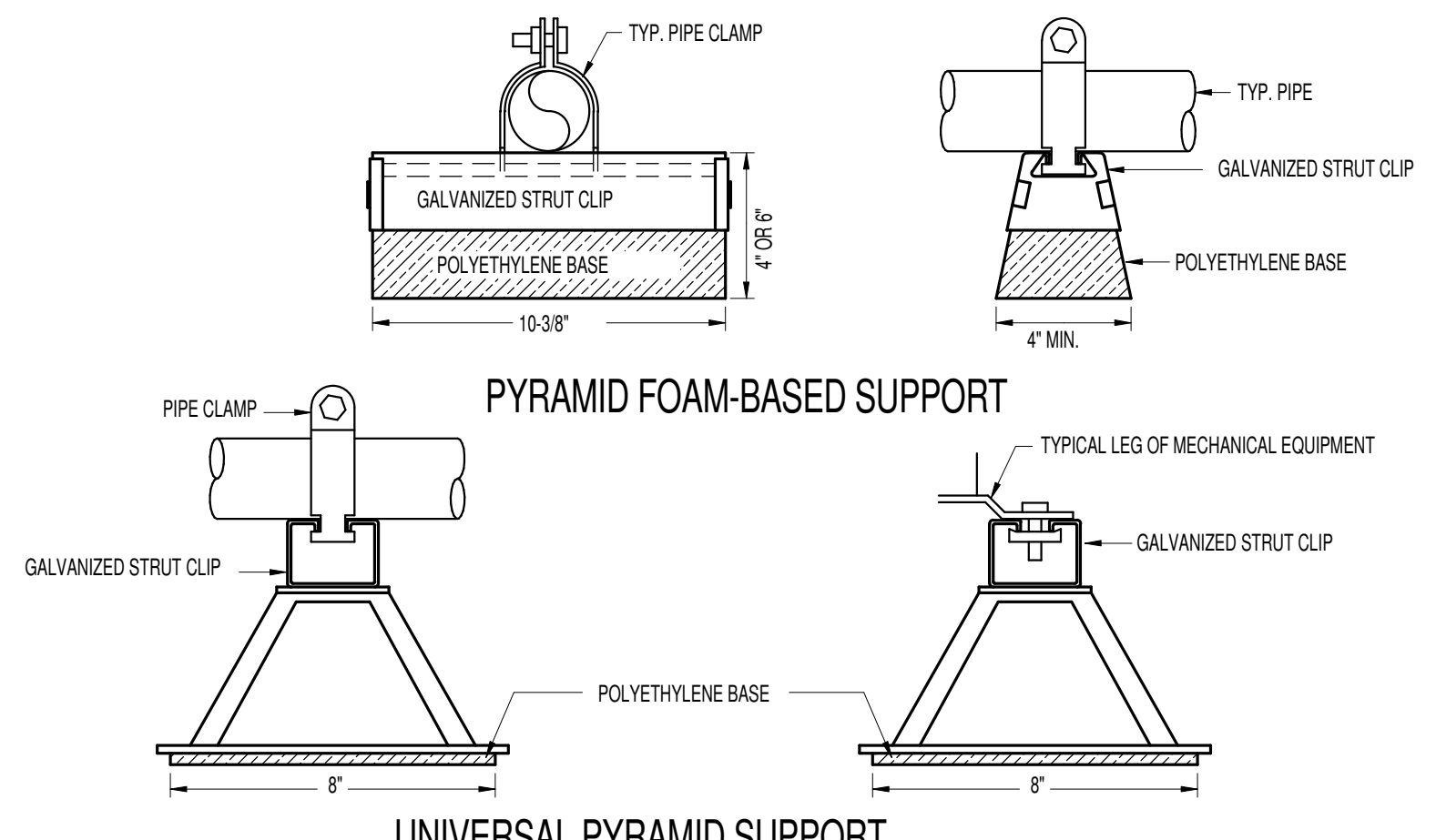
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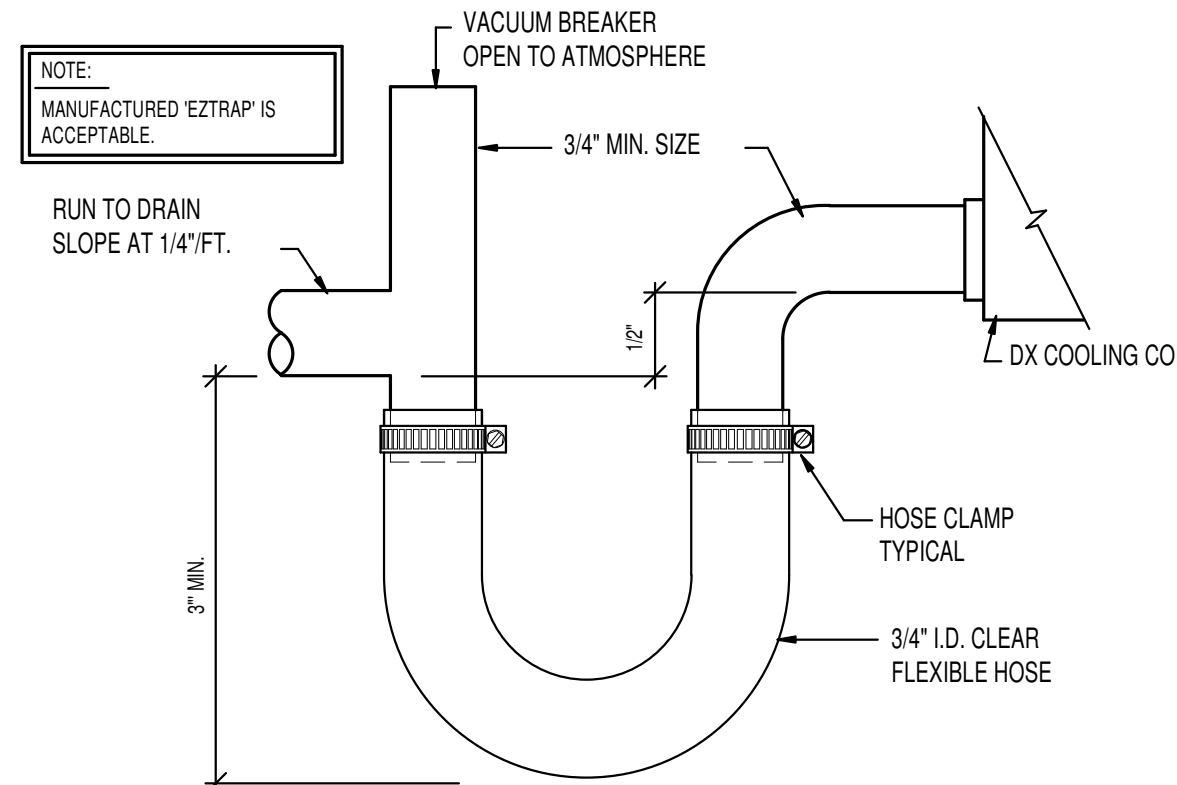
K SAND AND GREASE TRAP DETAIL

NO SCALE



L EQUIPMENT AND PIPING ON ROOF SUPPORT DETAILS

NO SCALE



M DX COIL CONDENSATE DRAIN DETAIL

NO SCALE

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 ESA JOB NUMBER: 19035

REVISIONS

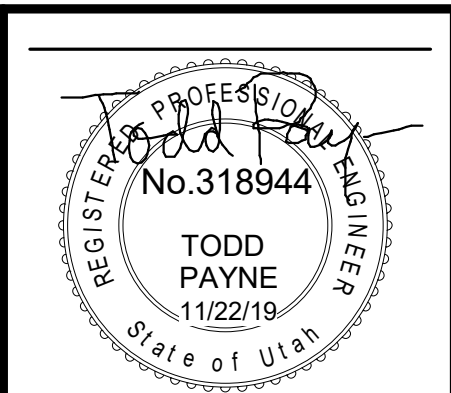
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| 1 | ADDENDUM #1 - 12/13/19 |
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PROJECT NO. 16066
 DATE: NOVEMBER 2019
 DRAWN BY: M Jensen
 CHECKED BY: D Sudweeks
 DRAWING NO.: **P3.1** AD #1
 REVISED 12-16-19

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A NEW BUILDING FOR:
KENWORTH SALES COMPANY INC.
 1750 SOUTH 1350 WEST
 WEST HAVEN, UTAH

PROJECT TITLE:
 PLUMBING DETAILS AND DIAGRAMS



nw architects p.a. ARCHITECTURE PLANNING INTERIORS SCOTT L NELSON AIA KEVIN R BODILY AIA JAMES H WYATT AIA 900 JOHN RINGBARK PARKWAY P.O. BOX 2212 • IDAHO FALLS, IDAHO 83402-2212 (208) 522-8778 (208) 522-8785 (208) 522-8786

A NEW BUILDING FOR: KENWORTH SALES COMPANY INC. 1750 SOUTH 1350 WEST WEST HAVEN, UTAH ELECTRICAL SYMBOLS & DETAILS

PROJECT: SHEET TITLE:

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PROJECT NO. 16066 DATE: NOVEMBER 2019 DRAWN BY: SAM CHECKED BY: TEP

DRAWING NO.: AD #1



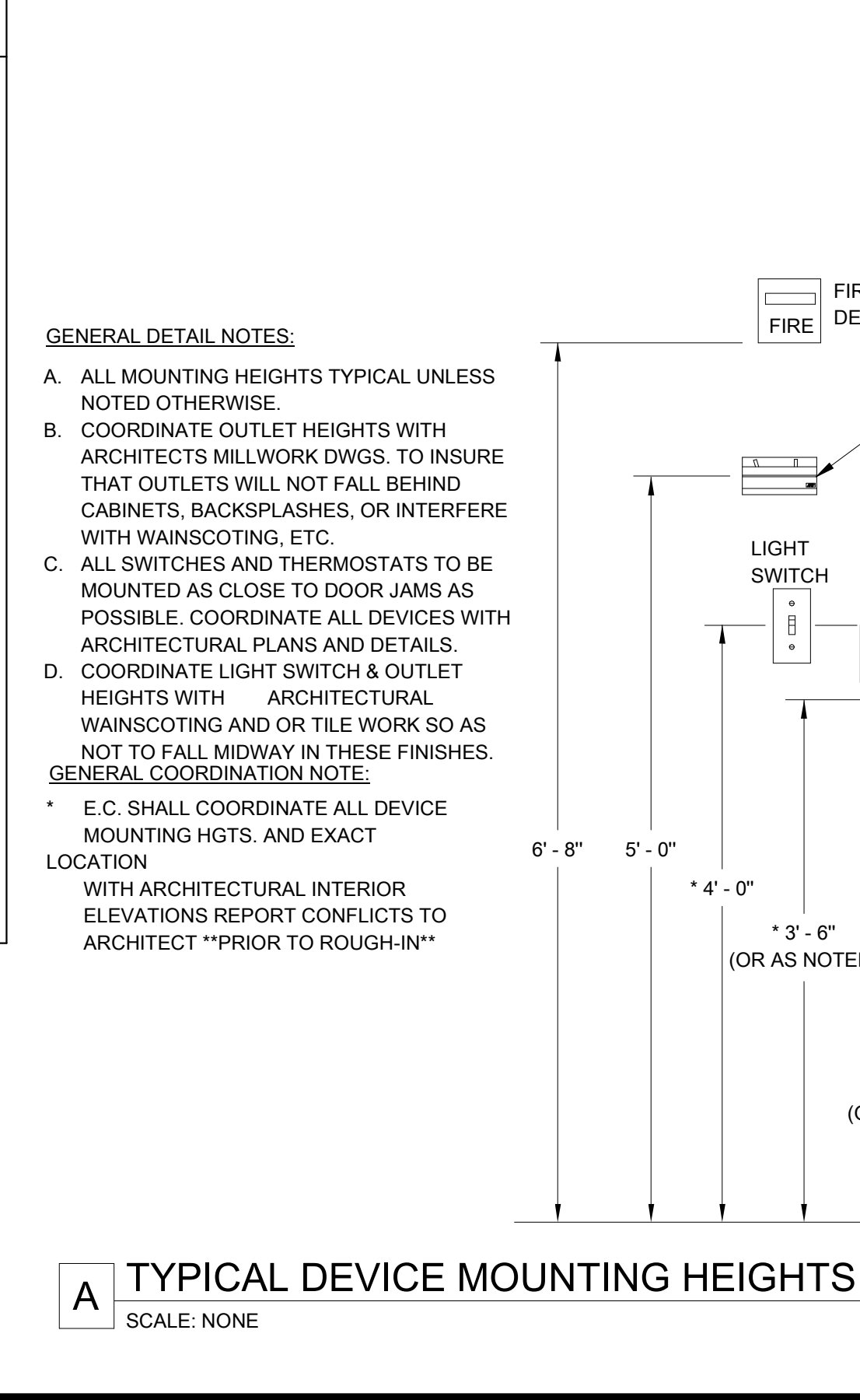
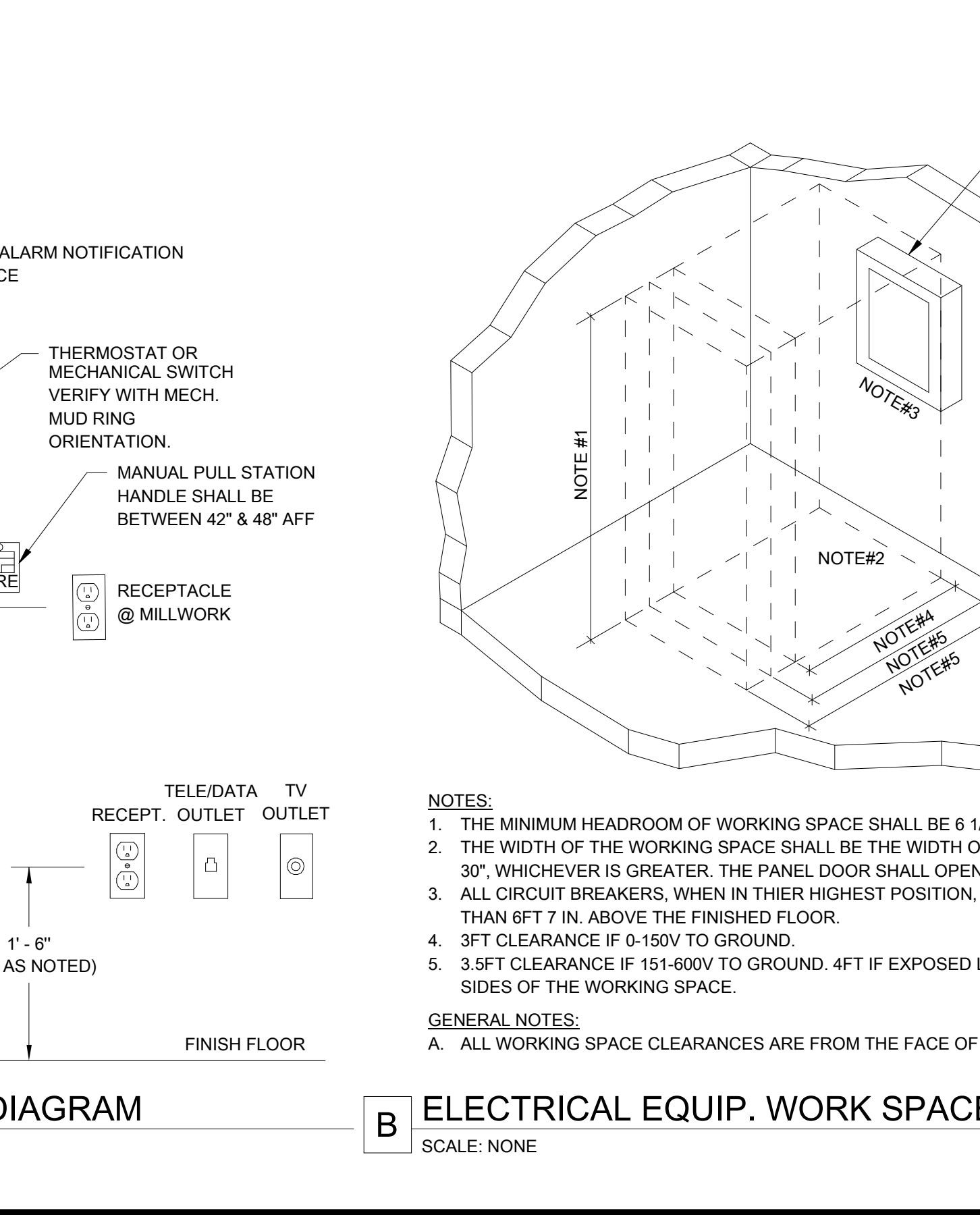
ABBREVIATIONS table with columns for SYMBOL and DESCRIPTION. Includes entries for SINGLE POLE, KILOVOLT, KVA, etc.

FIRE ALARM SYMBOL SCHEDULE table with columns for SYMBOL and DESCRIPTION. Includes entries for FIRE ALARM CONTROL PANEL, NOTIFICATION DEVICE, REMOTE ANNUNCIATOR, etc.

SPECIAL SYSTEMS SYMBOL SCHEDULE table with columns for SYMBOL and DESCRIPTION. Includes entries for DATA OUTLET, CEILING MOUNTED DATA OUTLET, TELEPHONE OUTLET, etc.

LIGHTING SYMBOL SCHEDULE table with columns for SYMBOL and DESCRIPTION. Includes entries for LIGHT FIXTURE TYPE DESIGNATION, PARKING AREA POLE LIGHT, EXTERIOR WALL MOUNTED FIXTURE, etc.

POWER SYMBOL SCHEDULE table with columns for SYMBOL and DESCRIPTION. Includes entries for ELECTRICAL SWITCHBOARD EQUIPMENT, DRY-TYPE TRANSFORMER, ELECTRICAL PANELBOARD, etc.



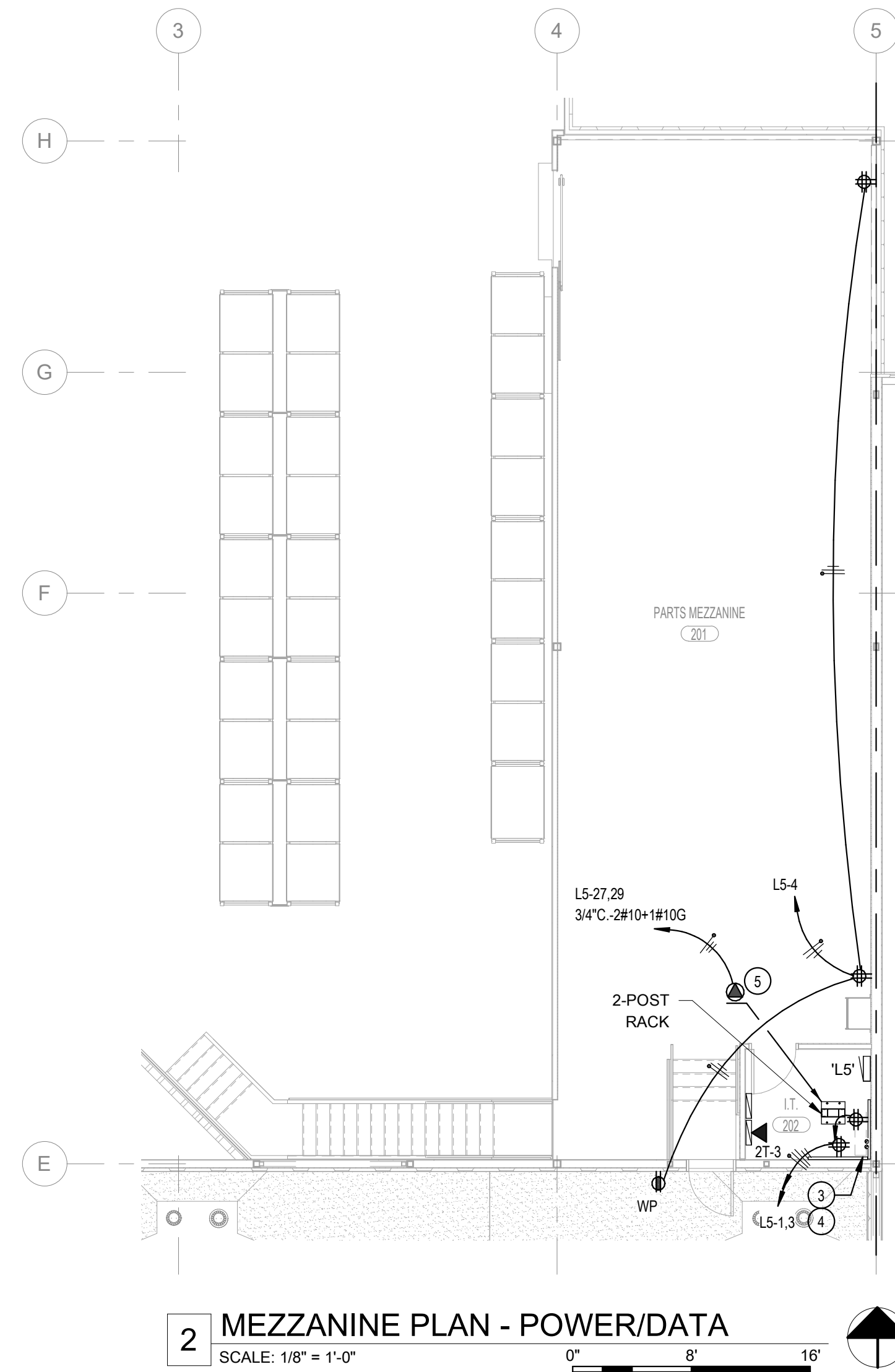
PROJECT GENERAL NOTES: A. ELECTRICAL CONTRACTOR SHALL REFER TO THE MECHANICAL DRAWINGS FOR EXACT LOCATIONS OF ALL MECHANICAL EQUIPMENT AND ELECTRICAL CONNECTIONS. B. ELECTRICAL CONTRACTOR SHALL PROVIDE MINIMUM WORKING CLEARANCE AS PER NEC BEFORE INSTALLING ANY ELECTRICAL PANELS OR CABINETS...

CIRCUITING & GENERAL SYMBOL SCHEDULE table with columns for SYMBOL and DESCRIPTION. Includes entries for KEYS, THERMOSTATS, DIMMERS, etc.

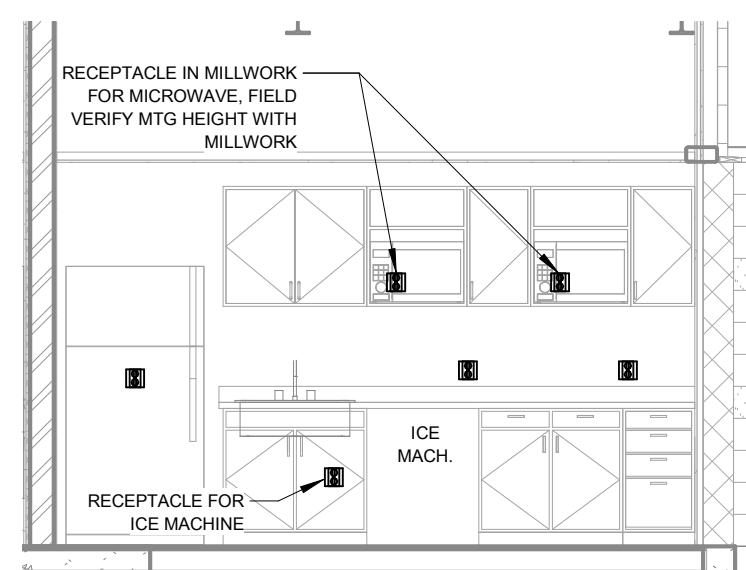
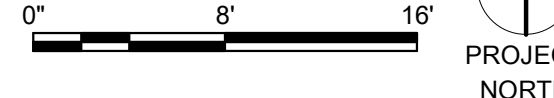
UTILITY LIGHTING REBATES & INCENTIVES: IT SHALL BE THE RESPONSIBILITY OF THE ELECTRICAL CONTRACTOR TO PREPARE ALL REQUIRED APPLICATIONS AND INFORMATION REQUIRED TO PROVIDE THE OWNER WITH THE MAXIMUM AMOUNT OF REBATE DOLLARS FROM THE LOCAL UTILITY COMPANY...

12/12/2019 4:23:43 PM \\PESERVER\Payne Engineering Data\2019\Kenworth Ogden - 1986\10_Working Drawings\Kenworth Ogden - SAM - Payne.rvt

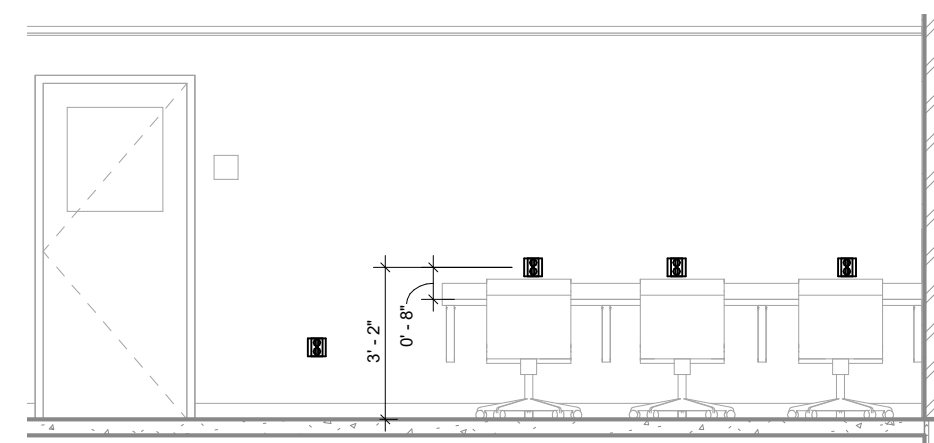
12/12/2019 4:23:44 PM \\PESERVER\Payne Engineering Data\2019\Kenworth Ogden - 1986\10_ Working Drawings\Kenworth Ogden - S.M. Payne.rvt



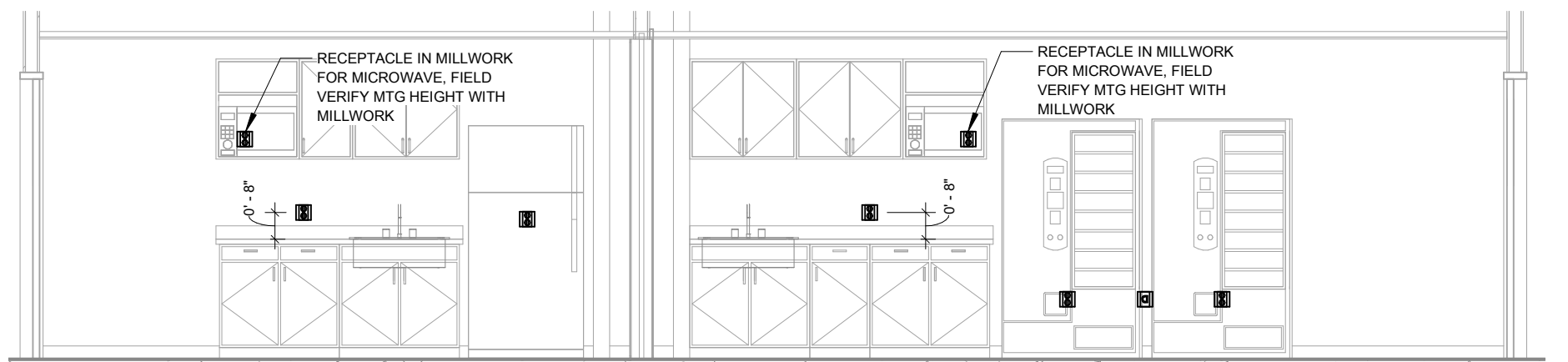
2 MEZZANINE PLAN - POWER/DATA
SCALE: 1/8" = 1'-0"



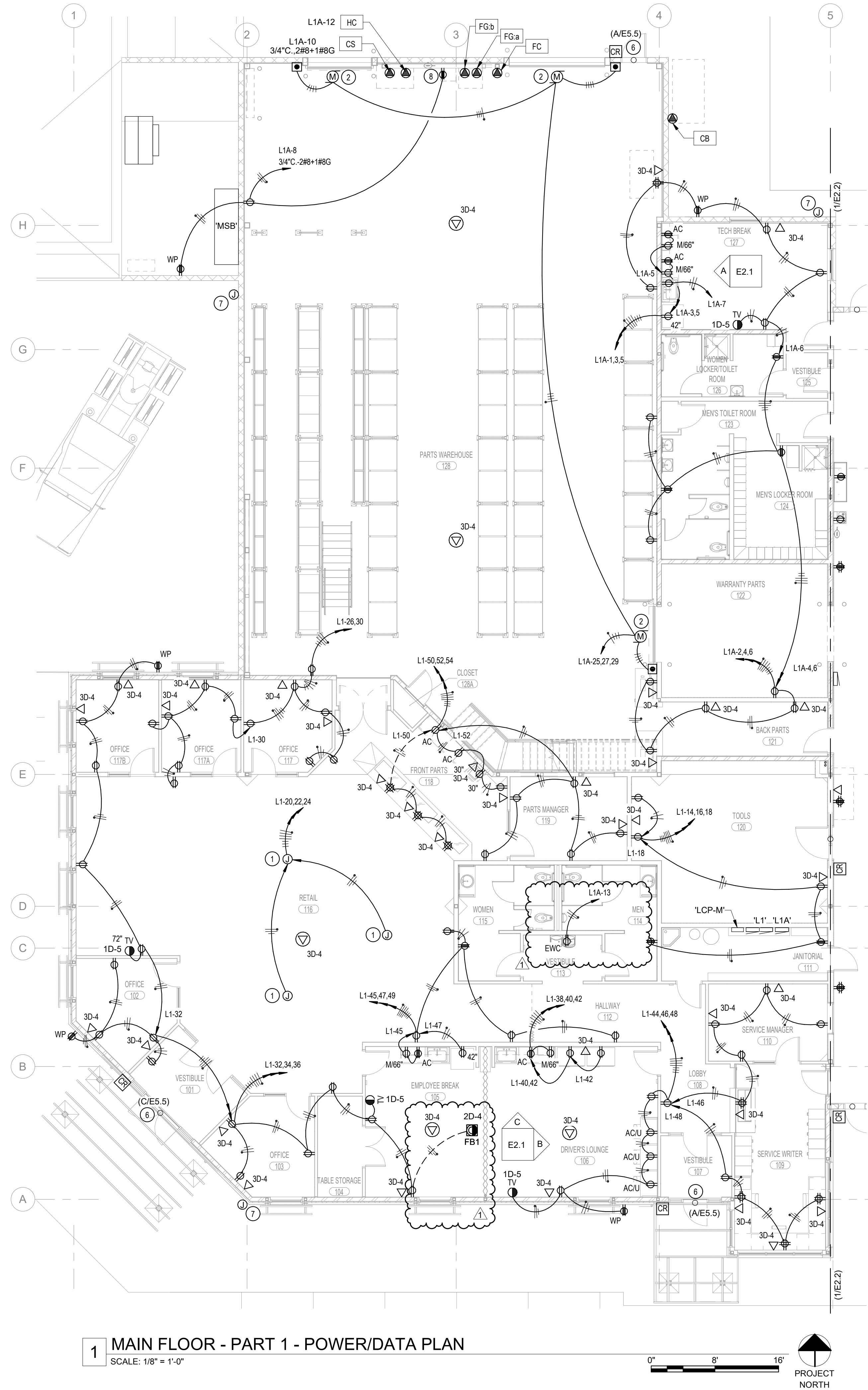
A BREAK ROOM ELEVATION
SCALE: 1/4" = 1'-0"



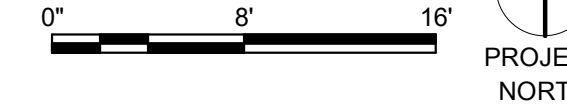
B DRIVERS LOUNGE ELEVATION
SCALE: 1/4" = 1'-0"



C DRIVERS LOUNGE/EMPLOYEE BREAK RM ELEVATION
SCALE: 1/4" = 1'-0"



1 MAIN FLOOR - PART 1 - POWER/DATA PLAN
SCALE: 1/8" = 1'-0"



GENERAL NOTES:

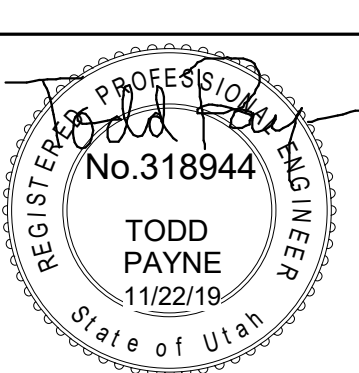
- A. EVEN IF SPECIFICALLY INDICATED ON THE DRAWINGS, ALL DEVICES SHOWN AT OR NEAR MILLWORK/CASEWORK SHALL BE COORDINATED WITH THE ARCHITECTURAL ELEVATION DRAWINGS AND MILLWORK INSTALLER TO INSURE PROPER MOUNTING HEIGHTS. CONTRACTOR SHALL ADJUST DEVICES AS NECESSARY IN ORDER TO POSITION DEVICES SUCH THAT THEY WILL NOT FALL BEHIND MILLWORK, CABINETS OR BE DIRECTLY ABOVE SINKS OR MIDWAY BETWEEN TIEWORK/WALL OR WAINSCOTING, ETC.
- B. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO INSTALL A GFCI TYPE RECEPTACLE FOR ALL RECEPTACLES SHOWN IN TOILET RMS, BATHROOMS, KITCHENS/SERVING AREAS, ROOFTOP, OUTDOORS OR WITHIN 6FT OF ANY SINK, BASIN, TUB OR FLOOR SINK AND ALL OTHER AREAS DEFINED BY THE NEC. WHETHER SPECIFICALLY INDICATED ON THE DRAWINGS OR NOT.
- C. ALL SURFACE RACEWAY INSTALLED BELOW 6'-0" AFF SHALL BE RIGID GALVANIZED STEEL CONDUIT.

SPECIAL NOTES:

- ALL WIRING METHODS AND DEVICES LOCATED IN SHOP AND AREAS OPEN TO THE SHOP SHALL CONFORM TO NEC ARTICLE 511 AND SECTION 501.15.
- ALL SURFACE RACEWAY INSTALLED BELOW 6'-0" AFF SHALL BE RIGID GALVANIZED STEEL CONDUIT.
- PROVIDE AND INSTALL CONDUIT SEAL-OFFS TO COMPLY WITH NEC SECTION 511, 501.15 AND LOCAL AHJ.
- WHERE PANELS ARE INSTALLED IN SHOP AREA, INSTALLATION SHALL BE IN COMPLIANCE WITH NEC ARCTICAL 511, SECTION 501.15, SECTION 240.24(A) AND LOCAL AHJ REQUIREMENTS.
- ALL UNDERGROUND CONDUITS INSTALLED IN SHOP/LNG BAY AREAS SHALL BE INSTALLED IN COMPLIANCE WITH NEC ARTICLE 511 AND SECTION 501.15.

KEY NOTES:

- 1 J-BOX ABOVE ACCESSIBLE CEILING FOR FUTURE USE; LABEL COVER "SPARE 120V CIRCUIT".
- 2 CONNECTION TO OVERHEAD DOOR MOTOR. PROVIDE WITH LOCAL 30A/3P DISCONNECT RATED THERMAL-OVERLOAD SWITCH. COORDINATE CONNECTION WITH EQUIPMENT PRIOR TO ROUGH-IN. PROVIDE CONDUIT AND CONDUCTORS TO PUSH-BUTTON STATION PER MANUFACTURERS REQUIREMENTS.
- 3 PROVIDE AND INSTALL A 4'X8'X3/4" PLYWOOD COMM. BOARD ON WALL OF IT ROOM. SEE DETAIL.
- 4 PROVIDE AND INSTALL WALL MOUNTED STANDOFF GROUND BAR. CONNECT TO MAIN SERVICE GROUND WITH #2 BARE COPPER. GROUND ALL EQUIPMENT IN IT ROOM PER NEC.
- 5 CONFIRM 30A, 208V, 1P NEMA CONFIGURATION WITH OWNER FOR OWNER FURNISHED UPS.
- 6 E.C. SHALL PROVIDE REQUIRED ROUGH-IN FOR ACCESS CONTROL DOOR; COORDINATE WITH SECURITY CONTRACTOR PRIOR TO ROUGH-IN. SEE DETAIL.
- 7 PROVIDE J-BOX FLUSH MOUNTED IN EXTERIOR WALL OF BUILDING FOR CCTV CAMERA; STUB 3/4" CONDUIT TO NEAREST ACCESSIBLE CEILING SPACE OR STRUCTURE. COORDINATE INSTALLATION HEIGHT AND BOX REQUIREMENTS WITH SECURITY CONTRACTOR.
- 8 E.C. SHALL PROVIDE AND INSTALL GFCI RECEPTACLE FOR POWER TO SINK. COORDINATE ROUGH-IN LOCATION CLOSELY WITH PLUMBING CONTRACTOR.



nbw architects p.a.
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990 JOHN RIBBINS PARKWAY P.O. BOX 2212 - IRVING FALLS, IDAHO 83402-2212
(208) 208-522 8770 (208) 522-8785 (208) nbwarchitects.com

A NEW BUILDING FOR:
KENWORTH SALES COMPANY INC.
1750 SOUTH 1350 WEST
WEST HAVEN, UTAH
PROJECT TITLE: MAIN FLOOR & MEZZ. PLANS - PART 1 - POWER/DATA

PROJECT: KENWORTH SALES COMPANY INC.
SHEET TITLE: MAIN FLOOR & MEZZ. PLANS - PART 1 - POWER/DATA

| REVISIONS | |
|-----------|------------|
| 1 | ADDENDUM#1 |

PROJECT NO. 16066
DATE: NOVEMBER 2019
DRAWN BY: SAM
CHECKED BY: TEP

DRAWING NO.: AD #1

P.E. JOB #1986

IPAYNE
Engineering Inc. Consulting Engineers
1823 E. Center
Pocatello, Idaho 83201
tel (208) 232-4439 fax (208) 232-1435
www.payneengineeringinc.com

E2.1

REVISED 12-16-19

SPECIAL NOTES:

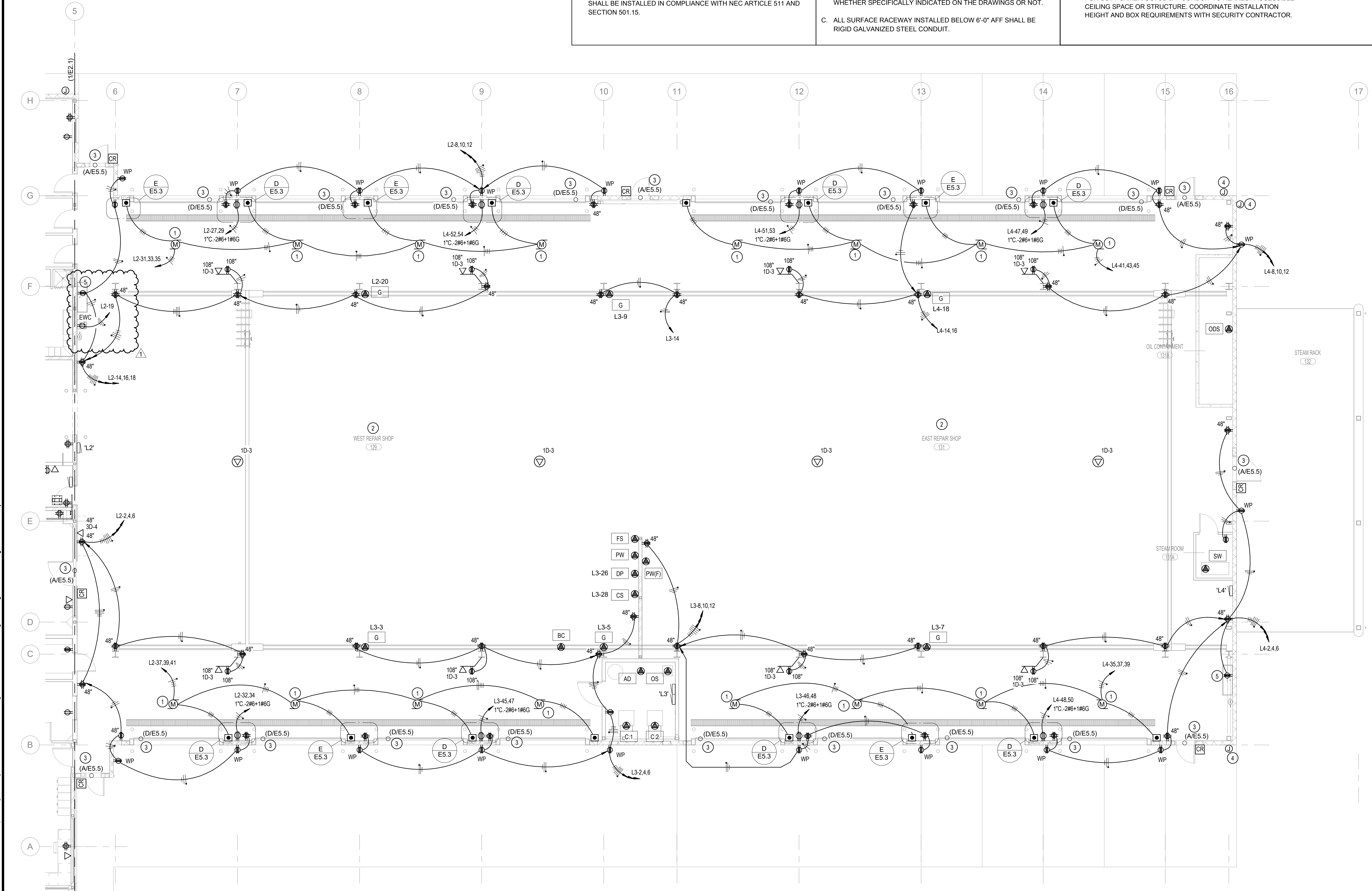
- ALL WIRING METHODS AND DEVICES LOCATED IN SHOP AND AREAS OPEN TO THE SHOP SHALL CONFORM TO NEC ARTICLE 511 AND SECTION 501.15.
- ALL SURFACE RACEWAY INSTALLED BELOW 6'-0" AFF SHALL BE RIGID GALVANIZED STEEL CONDUIT.
- PROVIDE AND INSTALL CONDUIT SEAL-OFFS TO COMPLY WITH NEC SECTION 511, 501.15 AND LOCAL AHJ.
- WHERE PANELS ARE INSTALLED IN SHOP AREA, INSTALLATION SHALL BE IN COMPLIANCE WITH NEC ARTICLE 511, SECTION 501.15, SECTION 240.24(A) AND LOCAL AHJ REQUIREMENTS.
- ALL UNDERGROUND CONDUITS INSTALLED IN SHOPPING BAY AREAS SHALL BE INSTALLED IN COMPLIANCE WITH NEC ARTICLE 511 AND SECTION 501.15.

GENERAL NOTES:

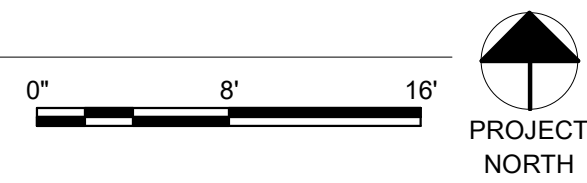
- A. EVEN IF SPECIFICALLY INDICATED ON THE DRAWINGS, ALL DEVICES SHOWN AT OR NEAR MILLWORK/CASEWORK SHALL BE COORDINATED WITH THE ARCHITECTURAL ELEVATION DRAWINGS AND MILLWORK INSTALLER TO INSURE PROPER MOUNTING HEIGHTS. CONTRACTOR SHALL ADJUST DEVICES AS NECESSARY IN ORDER TO POSITION DEVICES SUCH THAT THEY WILL NOT FALL BEHIND MILLWORK, CABINETS OR BE DIRECTLY ABOVE SINKS OR MIDWAY BETWEEN TILEWORK/WALL OR WAINSCOTING, ETC.
- B. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO INSTALL A GFCI TYPE RECEPTACLE FOR ALL RECEPTACLES SHOWN IN TOILET RMS, BATHROOMS, KITCHENS/SERVING AREAS, ROOFTOP, OUTDOORS OR WITHIN 6FT OF ANY SINK, BASIN, TUB OR FLOOR SINK AND ALL OTHER AREAS DEFINED BY THE NEC, WHETHER SPECIFICALLY INDICATED ON THE DRAWINGS OR NOT.
- C. ALL SURFACE RACEWAY INSTALLED BELOW 6'-0" AFF SHALL BE RIGID GALVANIZED STEEL CONDUIT.

KEY NOTES:

- 1 CONNECTION TO OVERHEAD DOOR MOTOR, PROVIDE WITH LOCAL 30A/3P DISCONNECT RATED THERMAL-OVERLOAD SWITCH. COORDINATE CONNECTION WITH EQUIPMENT PRIOR TO ROUGH-IN. PROVIDE CONDUIT AND CONDUCTORS TO PUSH-BUTTON STATION PER MANUFACTURERS REQUIREMENTS.
- 2 ALL OVERHEAD CONDUIT ROUTING IN SHOP AREA SHALL BE FIELD COORDINATED WITH BRIDGE CRANE TO AVOID INTERFERENCE WITH BRIDGE CRANE OPERATION. E.C. SHALL NOT ROUTE ANY CONDUIT OR CABLING ACROSS SKYLIGHTS OR CONDUIT/CABLING WILL BE RELOCATED AT CONTRACTORS EXPENSE.
- 3 E.C. SHALL PROVIDE REQUIRED ROUGH-IN FOR ACCESS CONTROL DOOR; COORDINATE WITH SECURITY CONTRACTOR PRIOR TO ROUGH-IN. SEE DETAIL.
- 4 PROVIDE J-BOX FLUSH MOUNTED IN EXTERIOR WALL OF BUILDING FOR CCTV CAMERA, STUB 3/4" CONDUIT TO NEAREST ACCESSIBLE CEILING SPACE OR STRUCTURE. COORDINATE INSTALLATION HEIGHT AND BOX REQUIREMENTS WITH SECURITY CONTRACTOR.
- 5 E.C. SHALL PROVIDE AND INSTALL GFCI RECEPTACLE FOR POWER TO SINK. COORDINATE ROUGH-IN LOCATION CLOSELY WITH PLUMBING CONTRACTOR.



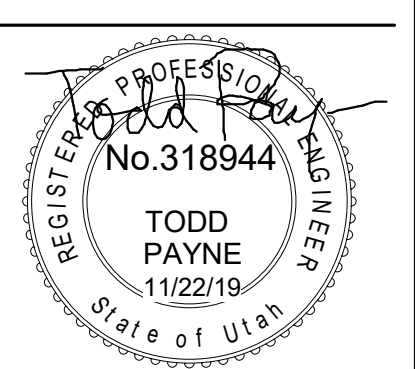
1 MAIN FLOOR - PART 2 - POWER/DATA PLAN
SCALE: 1/8" = 1'-0"



P.E. JOB #1986

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(208) 208-5228 (208) 208-5228 (208) 208-5228 (208) 208-5228

A NEW BUILDING FOR:
KENWORTH SALES COMPANY INC.
1750 SOUTH 1350 WEST
WEST HAVEN, UTAH

PROJECT TITLE: **MAIN FLOOR PLAN - PART 2 - POWER/DATA**

REVISIONS

| | |
|---|------------|
| 1 | ADDENDUM#1 |
|---|------------|

PROJECT NO. 16066
DATE: NOVEMBER 2019
DRAWN BY: SAM
CHECKED BY: TEP

DRAWING NO.: **AD #1**

E2.2
REVISED 12-16-19

PANEL: L1

LOCATION: JANITORIAL 111
FED FROM: MSB
MOUNTING: SURFACE
ENCLOSURE: NEMA 1
MFG & MODEL: GE/A SERIES

VOLTAGE: 120/208 Wye
PHASES: 3
WIRES: 4
BUSSING: SEE SPECS
DIM: 20"W x 5.8"D x "H

A.I.C. RATING: 10k
PANEL TYPE: MLO
PANEL AMPS: 400 A
MBR AMPS: N/A
FEED: BOTTOM

PROJECT:
KENWORTH SALES COMPANY INC.
1750 SOUTH 1350 WEST
WEST HAVEN, UTAH
Project Status

NOTES:
PROVIDE PANEL WITH INTEGRAL SURGE PROTECTION

Table with columns: CKT, CIRCUIT DESCRIPTION, NOTE, AMPS, P, A, B, C, P, AMPS, NOTE, CIRCUIT DESCRIPTION, CKT. Lists various electrical loads like Lighting, SPARE, and Water Heater.

BRK NOTES:
A = ARC-FAULT BREAKER
S = SHUNT-TRIP BREAKER
GP = GFEPD BREAKER
G = GFCCI BREAKER
LCP = ROUTE CIRCUIT THROUGH LTG CONTROL RELAY PANEL; SEE...

PAYNE ENGINEERING

PANEL: L1A

LOCATION: JANITORIAL 111
FED FROM: L1
MOUNTING: SURFACE
ENCLOSURE: NEMA 1
MFG & MODEL: GE/A SERIES

VOLTAGE: 120/208 Wye
PHASES: 3
WIRES: 4
BUSSING: SEE SPECS
DIM: 20"W x 5.8"D x "H

A.I.C. RATING: 10k
PANEL TYPE: MLO
PANEL AMPS: 225 A
MBR AMPS: N/A
FEED: BOTTOM

PROJECT:
KENWORTH SALES COMPANY INC.
1750 SOUTH 1350 WEST
WEST HAVEN, UTAH
Project Status

NOTES:
PROVIDE PANEL WITH INTEGRAL SURGE PROTECTION

Table with columns: CKT, CIRCUIT DESCRIPTION, NOTE, AMPS, P, A, B, C, P, AMPS, NOTE, CIRCUIT DESCRIPTION, CKT. Lists various electrical loads like Receptacle, Warehouse, and Forklift.

BRK NOTES:
A = ARC-FAULT BREAKER
S = SHUNT-TRIP BREAKER
GP = GFEPD BREAKER
G = GFCCI BREAKER
LCP = ROUTE CIRCUIT THROUGH LTG CONTROL RELAY PANEL; SEE...

PANEL: L2

LOCATION: WEST REPAIR SHOP 129
FED FROM: MSB
MOUNTING: SURFACE
ENCLOSURE: NEMA 1
MFG & MODEL: GE/A SERIES

VOLTAGE: 120/208 Wye
PHASES: 3
WIRES: 4
BUSSING: SEE SPECS
DIM: 20"W x 5.8"D x "H

A.I.C. RATING: 10k
PANEL TYPE: MLO
PANEL AMPS: 225 A
MBR AMPS: N/A
FEED: BOTTOM

PROJECT:
KENWORTH SALES COMPANY INC.
1750 SOUTH 1350 WEST
WEST HAVEN, UTAH
Project Status

NOTES:
INSTALL PANEL AS REQUIRED TO MEET NEC ARTICLE 511, PROVIDE SEAL-OFFS WHERE REQUIRED.

Table with columns: CKT, CIRCUIT DESCRIPTION, NOTE, AMPS, P, A, B, C, P, AMPS, NOTE, CIRCUIT DESCRIPTION, CKT. Lists various electrical loads like Lighting, SPARE, and Welder.

BRK NOTES:
A = ARC-FAULT BREAKER
S = SHUNT-TRIP BREAKER
GP = GFEPD BREAKER
G = GFCCI BREAKER
LCP = ROUTE CIRCUIT THROUGH LTG CONTROL RELAY PANEL; SEE...

PAYNE ENGINEERING

PANEL: L4

LOCATION: EAST REPAIR SHOP 131
FED FROM: MSB
MOUNTING: SURFACE
ENCLOSURE: NEMA 1
MFG & MODEL: GE/A SERIES

VOLTAGE: 120/208 Wye
PHASES: 3
WIRES: 4
BUSSING: SEE SPECS
DIM: 20"W x 5.8"D x "H

A.I.C. RATING: 10k
PANEL TYPE: MLO
PANEL AMPS: 225 A
MBR AMPS: N/A
FEED: BOTTOM

PROJECT:
KENWORTH SALES COMPANY INC.
1750 SOUTH 1350 WEST
WEST HAVEN, UTAH
Project Status

NOTES:
INSTALL PANEL AS REQUIRED TO MEET NEC ARTICLE 511, PROVIDE SEAL-OFFS WHERE REQUIRED.

Table with columns: CKT, CIRCUIT DESCRIPTION, NOTE, AMPS, P, A, B, C, P, AMPS, NOTE, CIRCUIT DESCRIPTION, CKT. Lists various electrical loads like Receptacle, Warehouse, and OH Doors.

BRK NOTES:
A = ARC-FAULT BREAKER
S = SHUNT-TRIP BREAKER
GP = GFEPD BREAKER
G = GFCCI BREAKER
LCP = ROUTE CIRCUIT THROUGH LTG CONTROL RELAY PANEL; SEE...

PANEL: L3

LOCATION: COMPRESSOR 130
FED FROM: MSB
MOUNTING: SURFACE
ENCLOSURE: NEMA 1
MFG & MODEL: GE/A SERIES

VOLTAGE: 120/208 Wye
PHASES: 3
WIRES: 4
BUSSING: SEE SPECS
DIM: 20"W x 5.8"D x "H

A.I.C. RATING: 10k
PANEL TYPE: MLO
PANEL AMPS: 400 A
MBR AMPS: N/A
FEED: BOTTOM

PROJECT:
KENWORTH SALES COMPANY INC.
1750 SOUTH 1350 WEST
WEST HAVEN, UTAH
Project Status

NOTES:
INSTALL PANEL AS REQUIRED TO MEET NEC ARTICLE 511, PROVIDE SEAL-OFFS WHERE REQUIRED.

Table with columns: CKT, CIRCUIT DESCRIPTION, NOTE, AMPS, P, A, B, C, P, AMPS, NOTE, CIRCUIT DESCRIPTION, CKT. Lists various electrical loads like Grinder, SPARE, and Welder.

BRK NOTES:
A = ARC-FAULT BREAKER
S = SHUNT-TRIP BREAKER
GP = GFEPD BREAKER
G = GFCCI BREAKER
LCP = ROUTE CIRCUIT THROUGH LTG CONTROL RELAY PANEL; SEE...

PAYNE ENGINEERING

PANEL: L5

LOCATION: I.T. 202
FED FROM: MSB
MOUNTING: SURFACE
ENCLOSURE: NEMA 1
MFG & MODEL: GE/A SERIES

VOLTAGE: 120/208 Wye
PHASES: 3
WIRES: 4
BUSSING: SEE SPECS
DIM: 20"W x 5.8"D x "H

A.I.C. RATING: 10k
PANEL TYPE: MLO
PANEL AMPS: 225 A
MBR AMPS: N/A
FEED: BOTTOM

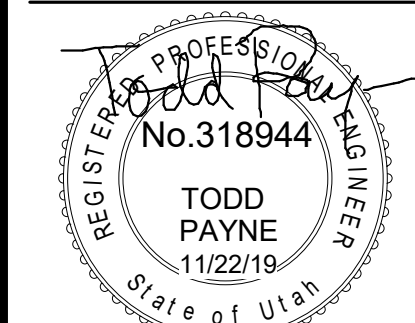
PROJECT:
KENWORTH SALES COMPANY INC.
1750 SOUTH 1350 WEST
WEST HAVEN, UTAH
Project Status

NOTES:
PROVIDE PANEL WITH INTEGRAL SURGE PROTECTION

Table with columns: CKT, CIRCUIT DESCRIPTION, NOTE, AMPS, P, A, B, C, P, AMPS, NOTE, CIRCUIT DESCRIPTION, CKT. Lists various electrical loads like Receptacle, Warehouse, and Rack UPS.

BRK NOTES:
A = ARC-FAULT BREAKER
S = SHUNT-TRIP BREAKER
GP = GFEPD BREAKER
G = GFCCI BREAKER
LCP = ROUTE CIRCUIT THROUGH LTG CONTROL RELAY PANEL; SEE...

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990 JOHN ARBON PARKWAY P.O. BOX 2212 - IRHO FALLS, IDAHO 83402-2212
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A NEW BUILDING FOR:
KENWORTH SALES COMPANY INC.
1750 SOUTH 1350 WEST
WEST HAVEN, UTAH
ELECTRICAL SCHEDULES

PROJECT:
REVISIONS
1 ADDENDUM#1

PROJECT NO. 16066
DATE: NOVEMBER 2019
DRAWN BY: SAM
CHECKED BY: TEP
DRAWING NO.: AD #1



E5.1
REVISED 12-16-19

