

Addendum No. 002

January 14, 2022

ADDENDUM TO PLANS AND SPECIFICATIONS FOR:
ODOT - Eaton Outpost
DOT-200023

Prepared For: **Ohio Department of Transportation / Ohio Facilities Construction Commission**

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This Addendum is included in the work as noted in the Notice to Bidders and Form of Proposal. Each item refers to drawing sheet numbers, specification numbers, or general comments.

To All Bidders: This addendum supplements and amends the original bid documents dated December 17, 2021 and shall be taken into account in preparing proposals and shall become a part of the contract documents.

Receipt of this Addendum shall be acknowledged by inserting its number and date in the space provided on the Bid Form.

This Addendum consists of 27 pages (**20-8.5x11 sheets and 7-24x36 sheets**) included herein.

GENERAL:

See attached supplemental information regarding EDGE requirements.

PROCUREMENT/CONTRACTING/SPECIFICATIONS:

Section 10 22 13 – Wire Mesh Partitions

Amend specification to include Standard Wire & Steel as an approved manufacturer. Add item 2.1-A-4 to read as follows:

4. *Standard Wire & Steel*
 - a. *16255 Vincennes Ave., South Holland, IL 60473*
 - b. www.standardwiresteel.com

Section 11 11 00 – Vehicle Service Equipment

Add water reel psi rating. Revise item 2.3-C-1-a to read as follows:

- a. *1" Continuous Flow Reel with spring loaded return (Min. 250 psi)*

Section 22 11 16 – Domestic Water Piping (Specification Attached)

Item 2.01-D - Add 1 ½” pipe size to pressure washer piping per attached specification.

Section 22 15 19 – General Service Packaged Air Compressors and Receivers (Specification Attached)

Items 3.02-A and 3.02-B – Remove references to inertia base per attached specification.

Section 22 42 00 – Commercial Plumbing Fixtures (Specification Attached)

Item 2.03-A – Revise WC-1 to floor-mounted, flush valve , back outlet per attached specification.

Section 26 22 00 – Low-Voltage Transformers (Specification Attached)

Add specification section 26 22 00 Low-Voltage Transformers

Section 33 10 00 – Water Utilities

Add Section 2.2-D as follows:

- D. High Density Polyethylene (HDPE): AWWA C901 (3/4” – 3”), AWWA C906 (4”-54”), DR11, NSF –PW (61), PE 3408 HDPE meeting ASTM cell classification ASTM D3350.
1. HDPE Joints: ASTM D2683 (socket), ASTM D3261 (fusion)
 2. Use butt fusion joining technique for joining pipe segments installed by HDD.
 3. When joining HDPE pipe at ends of directional drilling runs fusion bond to the adjacent pipe section.
 4. Mechanical Couplings are not permitted for joining of directional drilled pipe sections.

DRAWINGS:

Revise Sheet TSU – TECHNOLOGY SITE UTILITY PLAN (Revised Sheet Attached)

Plan Note T10 – Revise note as clouded to remove requirement for wet rated Cat 6 cable to gate controller.

Plan Note T11 – Revise note as clouded to clarify conduit and cabling requirements for fuel island.

Revise Sheet S-003 – TYPICAL FOUNDATION DETAILS (Revised Sheet Attached)

Detail 10 – Revise notes as clouded. The following note has been deleted:

1. Vertical contraction and construction joints not permitted in shear walls.

Detail 12 – Note #5 bent bar spacing to be 12” o/c as clouded.

Revise Sheet S-004 – TYPICAL FRAMING DETAILS (Revised Sheet Attached)

Detail 10 – Revise Detail to include corner detail and delete note referencing arch drawings as clouded.

Revise Sheet P401 – ENLARGED PLUMBING PLANS (Revised Sheet Attached)

Revise Detail 1 as clouded to accommodate back outlet WC-1 and to show BF-1 and associated piping.

Revise Sheet P601 – PLUMBING SCHEDULE & DETAILS (Revised Sheet Attached)

Revise schedule remarks for LAV-1 to “ADA COMPLIANT, WALL MOUNT” as clouded.

Remove BFP-3 from fixture schedule.

Revise Sheet P901 – PLUMBING STACKS (Revised Sheet Attached)

Revise riser diagram as clouded to accommodate back outlet WC-1 and BF-1.

Revise Sheet T101 – FIRST FLOOR TECHNOLOGY (Revised Sheet Attached)

Plan Note T3 – Revise note as clouded to include 110 termination blocks.

Plan Note T10 – Revise note as clouded to remove requirement for wet rated Cat 6 cable to gate controller.

Plan Note T11 – Revise note as clouded to clarify conduit and cabling requirements for fuel island.

BIDDER QUESTIONS AND ANSWERS:

Q1: *“Spec Section 221519 states to install the air compressor on an inertia base with spring isolators and refers you to spec section 220512. There is not a spec section 220512. Is an Inertia Base Required? If so, can Spec section 220512 be provided?”*

A. Inertia base is not required. Reference has been removed from the attached specification.

Q2: *“The Plumbing Schedule calls out for a floor mount rear discharge water closet; however the specs call out for this to be a floor mount floor outlet water closet. Which one are we to provide?”*

A. Water closet is to be floor mounted rear discharge per plumbing schedule. Attached specification and drawings have been updated accordingly.

Q3: *“The Plumbing Schedule calls out for a countertop installed LAV-1; however the specs call out for a wall mount LAV-1. Which one are we to provide?”*

A. Please follow specification for wall mounted lavatory. Plumbing schedule has been updated to match.

Q4: *“In reviewing the plumbing drawings I cannot locate the BF-1 fixture that is called out for on the Plumbing Schedule. Is this fixture going to be a part of this project? If so, where is this to be located and where should it tie into the sanitary and domestic water?”*

A. BF-1 has been added to revised Sheets P401 and P901 attached herein.

Q5: *“In reviewing the plumbing drawings I cannot locate BFP-3 or the brine system that it is to serve. Is this backflow preventer still required? If so, where is it to be located?”*

A. Brine system backflow is not required. BF-3 has been removed from the plumbing schedule in revised sheet P601 included herein.

END OF ADDENDUM NO. 002

**DOT – 2000023 Eaton Outpost
5656 US 127 Eaton, OH 45320
(Preble County)**

Encouraging Diversity Growth and Equity (EDGE) Requirements

- This Project is subject to the State of Ohio’s Encouraging Diversity, Growth and Equity (“EDGE”) Business Development Program which was established under the Ohio Revised Code 123.152 (9/26/2003). The program is a requirement for company’s choosing to bid and work on state funded projects.
- The EDGE participation goal for the Lima Outpost is 5%.
- Meeting the goal is a requirement unless a company demonstrates good faith efforts were made to utilize an EDGE vendor and were unable to do so. **Bidders selecting Option B on the EDGE Program Commitment to Participate section of the bid form**, if committing to less than the goal and are selected must submit a request for waiver on company letterhead, provide a detailed **Demonstration of Good Faith** form (F110-13v0912) and go through the waiver process before being awarded a contract.
- **Bids are to be submitted via Bid Express Internet Bidding on Friday, January 21st, 2022 before 2:00 P.M. local time!**
- If awarded a contract, confirm the EDGE contractor(s) is certified when the **Intent to Contract Form #00-45-39** is signed. You may request subcontractor’s certification letter to verify certification timeline which is a 2-year period. **Also, provide a detailed list of materials, supplies, labor and cost for EDGE services.**
- **Construction Specification Institute Codes (CSI)** – Confirm EDGE contractor is providing services for which they are certified. <https://eodreporting.oit.ohio.gov> (EDGE Certified Company search site)
- **Ohio Administrative Code 123: 2-14-06 Commercially Useful Function - (A) A contractor awarded a contract pursuant to chapters 123., 125. and 153. of the Revised Code may count towards its EDGE goal only those expenditures to EDGE certified business that perform a commercially useful function.**

(C)(1) **The workers on the EDGE contract are regular employees of the contracted EDGE business.**

(C)(4) **The equipment used by the EDGE business is owned or controlled by the EDGE business.**

The EDGE business owns or rents or leases from a traditional rental or leasing source pursuant to a written rental or lease agreement.

(C)(5) The EDGE contractor business has the responsibility, with respect to execution of the work of the contract, for actively managing, performing and supervising the work involved.

(C)(A-F) The EDGE supply business has the responsibility, with respect to materials and supplies used on the contract, for negotiating price, determining quality and quantity, ordering, payment, and where applicable, installation.

Important Reminders

All Contractors must follow Ohio Dept. of Health Safety Protocol Guidelines coronavirus.ohio.gov

- **Drug Free Safety Program** - Confirm all contractors, subcontractors and lower-tier subcontractors are compliant with the BWC Drug Free Safety Program or an approved comparable program per General Contract Conditions Article 1.6 Drug Free Safety Program. Failure to confirm compliance shall result in contractor, subcontractor, or the lower-tier subcontractor being found in breach of the contract and that breach shall be used in the responsibility analysis of that contractor, subcontractor or lower-tier subcontractor who was not enrolled in a program for future contracts with the State for 5 years after the date of the breach.
- **Certificate of Compliance** - Any person or company desiring to participate as the Lead Contractor on a state-assisted construction contract shall make application for a Certificate of Compliance with Federal and State affirmative action programs. Application shall be made with the Ohio Department of Administrative Services: www.das.ohio.gov/eod
- **Replacement of EDGE Subcontractors** – Once the project is in progress, any changes from one EDGE sub to another must be pre-approved in writing by OFCC, per General Contract Conditions: Replacement of Subs.

David Moore - OFCC EDGE Program Manager – 614-466-2341
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SECTION 221116 - DOMESTIC WATER PIPING

PART 1 GENERAL

1.01 RELATED DOCUMENTS

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

1.02 RELATED WORK DESCRIBED ELSEWHERE

- A. Section 22 05 29, "Hangers and Supports for Plumbing Piping Equipment."
- B. Section 22 42 00, "Commercial Plumbing Fixtures."
- C. Section 22 47 00, "Drinking Fountains and Water Coolers."

1.03 DESCRIPTION

- A. Connect to water service line above floor slab where shown on Drawings.
- B. Contractor shall provide site water service line.
- C. Provide a complete system of domestic hot water and cold water piping to fixtures and equipment where shown on Drawings.
- D. Sterilize complete domestic water system.
- E. Install backflow preventer on domestic water supply line where shown.
- F. Provide 3/4 in. valved branches on water service at point of entry into building, just past main backflow preventer and at the beginning of each branch, for injecting chlorine for sterilization.
- G. Test complete system.

1.04 QUALITY ASSURANCE

- A. Standards:
 - 1. American National Standards Institute (ANSI).
 - 2. American Society for Testing and Materials (ASTM).
 - 3. American Society of Mechanical Engineers (ASME).
 - 4. American Water Works Association (AWWA).
 - 5. American Welding Society (AWS).
 - 6. Factory Mutual Global (FMG).
 - 7. National Sanitation Foundation (NSF).
 - 8. Plumbing and Drainage Institute (PDI).
 - 9. Underwriters Laboratories, Inc. (UL).
 - 10. Local water purveyor.
- B. All piping materials and installation shall comply with State and Local Building Code requirements.

PART 2 PRODUCTS

2.01 WATER PIPING

- A. Above Ground: Type “L” hard drawn copper tubing with wrought or forged copper solder fittings (ASTM B88).
- B. Piping in Earth and Under Slab:
 - 1. 2-1/2 in. and smaller: Type “K” soft copper (ASTM B88), wrought copper fitting, and brazed joints.
 - a. Acceptable Manufacturers: Clow “Super Bell-Tite” or equal by American Cast Iron Pipe Company or U. S. Pipe & Foundry.
- C. Trap Primer Drain Piping: Type “K” soft copper (ASTM B88), wrought copper fitting, and brazed joints.
- D. Pressure washer water piping: provide hydraulic tubing, SAE j-525, seamless (or electric welded) low carbon steel tubing, 1010-1020 alloy, annealed soft, 5,000 psig minimum operating pressure. Minimum wall thickness shall be 5/8” – 0.083” wall, 3/4” – 0.095” wall, 1” – 0.12 wall, 1-1/2” – 0.12 wall. Fittings shall be compatible with the pipe with similar characteristics.
- E. All water piping in the washbay shall be stainless steel ASTM A312, Type 316/316L.

2.02 SOLDER AND BRAZING ALLOYS

- A. Solder: 95-5 tin-antimony, lead free.
 - 1. Acceptable Manufacturers: Engelhard “Silvabrite 100,” J. W. Harris Co. “Bridgit,” or Oatey.
- B. Copper Brazing Alloys: Silver/phosphorous or silver/zinc alloys having a melting point greater than 1,000 deg. F. (ANSI B31.1 and AWS A58).
 - 1. Acceptable Manufacturers: Handy Harman Sil-Fos, Airco Welding Products Aircosil, or ESAB Allstate.
- C. Certify that solder and brazing used for entire piping system is lead-free.

PART 3 EXECUTION

3.01 COORDINATION

- A. Coordinate installation height of faucets, hose bibbs, post hydrants, and wall hydrants with the A/E.
- B. Coordinate piping with trusses, beams, joists, walls, HVAC piping, ductwork, equipment, and electrical equipment.
- C. Coordinate location, size, and depth of site water service entrance with the Water Utility Company.
- D. Coordinate location of rough-in and final connections to equipment with the A/E and Owner.

3.02 INSTALLATION

- A. Install all valves in accessible locations. Coordinate installation of access panels.
- B. Open valves fully before soldering.
- C. Avoid installing water lines in outside walls. Where unavoidable, install piping so that the wall insulation is between the pipe and the outside wall. Obtain specific approval of A/E.
- D. Install shut-off valves on hot and cold water on each branch serving more than (1) fixture and where shown.
- E. Install ball valves in lines to equipment and fixtures not provided with stops.

- F. Unless otherwise noted, install shock absorbers at the end of each main or branch.
- G. Install backflow preventers where indicated or required by Code.
- H. Provide rigid support for backflow preventer, and drain piping .
- I. Where piping is installed above ceilings and below ceiling insulation, ensure that ceiling insulation has no insulation voids above piping.
- J. Install piping in such a manner as to allow complete drainage of the water piping system, toward the source.
- K. Provide 3/4 in. valved inlet immediately downstream of backflow preventer for purpose of adding sterilizing solution into domestic water piping system.

3.03 TESTS

- A. Perform tests as required by the State Building Code and as specified below:
 - 1. Take precautions to remove all air before performing hydrostatic tests.
 - 2. Test piping at 125 PSIG for (6) hours with no pressure drop. All tests shall be made before piping is insulated or concealed. Tests shall be witnessed by the A/E's Representative.
 - 3. If a leak occurs, defective piece or joint shall be replaced. No caulking will be permitted. Tests shall then be repeated.

3.04 STERILIZATION OF DOMESTIC WATER LINES

- A. After water piping is complete and fixtures have been installed, flush piping clean and sterilize all domestic hot water, hot water return, and cold water piping, including water heater. The sterilization shall be done under the immediate on-the-job supervision of a Water Testing Laboratory regularly engaged in the service. Pay all fees for testing and use of testing equipment.
- B. With all outlets closed, fill system to working pressure and close valve on supply main.
- C. Open all fixtures slightly and pump a sterilization solution into test tap as follows: 400 minimum to 1000 maximum parts per million chlorine solution made from a sanitation grade of hyperchlorite, 70% available chlorine.
 - 1. Acceptable Hyperchlorites Manufacturers: H.T.H., Perclorn, or Pittchlor.
- D. Each outlet, hot and cold, shall be tested during fill to prove the presence of chlorine at that outlet. Chlorine shall be present at all outlets.
- E. Water piping system shall remain filled for a period of (24) hours and each outlet shall be again tested and shall have at least 100 parts per million of chlorine remaining.
- F. Upon completion of sterilizing, all outlets shall be opened wide and the main supply valves opened, flushing system free of chlorine. Outlets shall be again checked and flushed until free of chlorine. Flush main valves and entire building domestic water system. Coordinate with the A/E and Owner.
- G. After final flushing, all electric water cooler inlet strainers and all aerators shall be removed, cleaned, and replaced.
- H. Chlorination of the system may be performed at same time the pressure test is conducted.
- I. Provide the A/E with a "Certificate of Completion of Chlorination" after chlorination is completed.

END OF SECTION 221116

SECTION 221519 - GENERAL SERVICE PACKAGED AIR COMPRESSORS AND RECEIVERS

PART 1 GENERAL

1.01 RELATED DOCUMENTS

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

1.02 RELATED WORK DESCRIBED ELSEWHERE

- A. Section 22 05 12, "Plumbing Vibration Isolators."
- B. Section 22 15 13, "General Service Compressed-Air Piping."

1.03 DESCRIPTION

- A. Provide an air compressor and refrigerated air dryer where shown on Drawings.

1.04 QUALITY ASSURANCE

- A. Standards:
 - 1. American Society of Mechanical Engineers (ASME).
 - 2. Underwriters Laboratories Label (UL).

1.05 MAXIMUM DUTY CYCLE

- A. Unit shall have sufficient capacity and designed to limit compressor operation to 25% duty cycle.

1.06 RATINGS AND CAPACITY

- A. Refer to Drawings for standard cubic feet per minute, outlet pounds per square inch gauge, tank gallonage, horsepower, and electrical requirements.

1.07 START-UP SERVICE

- A. Compressor Manufacturer shall provide a factory-trained Representative to start up, adjust, and prepare the compressor for final operation.

PART 2 PRODUCTS

2.01 AIR COMPRESSOR

- A. AC-1: Champion Model VR15F-12. 2-cylinder, 15 HP motor, 230 volts, 3-phase, 1,045 RPM, 49.0 CFM at 175 PSI delivery, 120 gallon vertical ASME receiver tank, complete with compressor, motor, and accessories.
 - 1. Accessories:
 - a. Air-cooled after-cooler.
 - b. Air intake silencer-filter.
 - c. Full-time low oil level shutoff control with manual reset to prevent restarting while oil is being added.
 - d. OSHA-approved, totally enclosed belt guard.
 - e. Compressor-mounted magnetic starter with thermal overload protection.
 - f. Pressure switch. Set pressure switch for 140 PSI.
 - 2. Other Acceptable Manufacturers: Ingersoll-Rand or Emglo.

PART 3 EXECUTION

3.01 COORDINATION

- A. Coordinate location of air compressor with all equipment.

3.02 INSTALLATION

- A. Install and shim air compressor to level.
- B. Install air compressor assembly on concrete pad provided by this Contractor.
- C. Perform installation and start-up of air compressor in the presence of Manufacturer's Representative.
- D. Pipe the automatic and manual drain of compressor's air receiver tank, to nearest floor drain inlet.

3.03 WIRING

- A. Provide disconnect switches and power wiring of air compressor.

END OF SECTION 221519

SECTION 224200 - COMMERCIAL PLUMBING FIXTURES

PART 1 GENERAL

1.01 RELATED DOCUMENTS

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

1.02 RELATED WORK DESCRIBED ELSEWHERE

- A. Section 22 07 19, "Plumbing Piping Insulation."
- B. Section 22 11 16, "Domestic Water Piping."
- C. Section 22 13 16, "Sanitary Waste and Vent Piping."
- D. Section 22 45 00, "Emergency Plumbing Fixtures."
- E. Section 22 47 00, "Bottle Fillers."

1.03 DESCRIPTION

- A. Provide plumbing fixtures installed in place, complete with supports, supply, and waste trim as indicated on the Drawings.
- B. All fixtures shall have vandal-resistant handles, aerators, escutcheons, carriers, nuts, and bolts.
- C. All trim and exposed piping shall be chrome-plated, unless noted otherwise.
- D. Faucets shall have ceramic disc valve cartridges or cam-activated diaphragm valve cartridges.
- E. Exposed metal parts shall be nonferrous and chrome-plated, unless otherwise noted. Vitreous china or enamel fixtures and trim shall be free of defects. Plumbing fixtures shall be white in color, unless otherwise noted.
- F. All plumbing fixtures shall be of commercial quality and free of defects.
- G. Provide trim, fittings, carriers, angle stops, chrome water supply piping, and all accessories required for a complete installation.
- H. Fixture connection sizes are shown on Drawings.
- I. All vitreous china plumbing fixtures resting against a wall or floor shall have ground mating surfaces and shall be caulked with silicone sealant of a color to match the fixture. Remove excess material after fixture installation.
- J. Provide a 1/4 in. bead of caulk or silicone sealant around the perimeter of casework openings for all countertop fixtures. Remove excess material after fixture installation.
- K. Water closet flush valve handle shall be left-handed operation, unless required to be right-handed operation to comply with ICC A117.1 and ADA Guidelines. Flush valve trip lever shall be mounted on the wide side of the water closet stall.

1.04 QUALITY ASSURANCE

- A. Standards:
 - 1. American National Standards Institute (ANSI).
 - 2. American Society of Sanitary Engineering (ASSE).
 - 3. International Code Council (ICC) A117.1, "Accessible and Usable Buildings and Facilities."

4. 2010 ADA Standards for Accessible Design
5. Architectural Barriers Act (ABA) Accessibility Guidelines.
6. City and State Plumbing and Energy Codes.
7. Federal Energy Policy Act of 1992:
 - a. Water Closets: 1.6 gallon/flush maximum.
 - b. Public Lavatories: 0.5 gpm maximum.
8. National Electrical Manufacturers Association (NEMA) .
9. National Sanitation Foundation (NSF).
10. Plumbing and Drainage Institute (PDI).
11. Underwriters Laboratories, Inc., (UL) .

1.05 SUBMITTALS

- A. Submit Manufacturer's product data for all products specified in this Section and shown on Drawings.
- B. Each Shop Drawing submittal shall be clearly marked with model number and fixture designation number and shall indicate all required accessories, dimensions, construction, color, and rough-in requirements. Submit color charts when required.

1.06 DELIVERY, STORAGE, AND HANDLING

- A. Protection: Fixtures and trim shall remain crated and stored until installation to prevent physical damage and moisture and dirt contamination. Adequately protect installed fixtures from damage with cardboard, plywood, or other rigid material.
- B. The Contractor shall not permit the use of installed plumbing fixtures by construction personnel without the Owner's written permission. Any of the installed fixtures, fittings or trim found damaged prior to final acceptance shall be removed and replaced by the Contractor at no extra charge to the Owner.

PART 2 PRODUCTS

2.01 PLUMBING FIXTURES AND ACCESSORIES

- A. Acceptable Fixture Manufacturers:
 1. Vitreous China Fixtures: American Standard, Kohler, Eljer, or Crane.
 2. Urinal: Sloan, Kohler, or American Standard.
 3. Wash fountain: Bradley, Acorn Sanispray, Intersan, or Willoughby.
 4. Food Waste Grinder: In-Sink-Erator, Hobart, Kitchen-Aid, Waste King, or Master.
 5. Mop Service Basin: American Standard, Fiat, Powers, Standard Elsmere, Stern Williams, Mustee, Florestone, Swan, Creative Industries, Zurn, or Ceco.
 6. Sinks: Elkay, Just, American Standard, Mustee.
- B. Acceptable Accessory Manufacturers:
 1. Flush Valves (with vandal-resistant stop): Sloan, Delany, or Zurn.
 2. Water Closet Seats: Beneke, Church, Kohler, Bemis, Olsonite, Centoco, or Sperzel.
 3. Faucets: Chicago Faucet, American Standard, Elkay, Kohler, Eljer, Crane, T & S Brass Company, Grohe, Speakman, Moen, Zurn, Delta, Sloan, or Symmons.
 4. Supplies, Escutcheons, and Traps: Brasscraft, Bridgeport, Consolidated, Frost, Waterway, McGuire Mfg. Co., Dearborn, Sanitary-Dash, Speedway, Zurn, or Anso-Flex.

2.02 CARRIERS

- A. All carriers shall be specifically chosen to accommodate the particular brand and style of fixture actually installed, the particular type of floor and wall actually present at each fixture location, and

the piping arrangement at each fixture. Furnish plastic or metal positioning frames to isolate carrier bolts from wall construction.

- B. Provide a heavy-duty, rectangular vertical support, floor-supported, commercial type fixture carrier for each wall-mounted plumbing fixture, unless noted otherwise.
- C. Water Closets: Zurn Model Z1203 or Z1204. Floor-supported, with buttress foot and foot anchor, rear foot support, flush valve supply support, cast iron, commercial type. Coordinate location of carrier closely with the A/E.
- D. Urinals: Heavy-duty type Zurn Model Z1222.
- E. Other Acceptable Manufacturers: Approved equal by Jay R. Smith, Wade, or Josam.

2.03 WATER CLOSETS

- A. WC-1: (ICC A117.1 and ADA-compliant, floor-mounted, flush valve, back outlet): American Standard Model 3695.001, low consumption, 1.6 GPF, siphon jet, elongated bowl, vitreous china, with bolt caps, and 1-1/2 in. top spud.
 - 1. Seat: American Standard 5901.110. Commercial-grade, open front, extra heavy-duty, solid white, flame-retardant polypropylene plastic, with self-sustaining check hinge, integral molded bumper, and no cover.
 - 2. Flush valve: American standard model 6047.161.002. Chrome with 1 in. screwdriver angle stop, Dual-Flush, adjustable tailpiece, vacuum breaker, and chrome metal escutcheon plate.
 - a. Shorten flush valve outlet tube to allow clearance under grab bar for flush valve servicing.
 - b. Conform to ICC A117.1 and ADA Accessibility Guidelines concerning location of flush valve trip lever.

2.04 URINALS

- A. UR-1 (ICC A117.1 and ADA-compliant, wall-mounted, back outlet): American standard 6501.010. Vitreous china, 2 in. back outlet. 3/4" top inlet spud.
 - 1. Carrier: Provide heavy-duty carrier.
 - 2. Provide manual flush valve.
- B. Carrier: Provide heavy-duty carrier. Install at handicapped height.

2.05 LAVATORIES

- A. LAV-1: American Standard model 355.012. Description: Accessible, wall-mounting, vitreous-china fixture.
 - 1. Supplies: NPS 3/8 chrome-plated copper with stops.
 - 2. Faucet : CHICAGO # 895-317RGD2, 5-3/8" GOOSENECK 4"C.C. W/ 4" BLADE HANDLES
 - 3. Drain: Chicago Faucet Chrome grid, 1 1/4 in. chrome 17 ga. tailpiece, chrome cast brass trap with cleanout plug, and chrome 17 ga. drain to wall.
 - 4. Drain Piping: NPS 1-1/4 chrome-plated, cast-brass P-trap;, 0.032-inch- thick tubular brass waste to wall; and wall escutcheon.
 - 5. Escutcheon plates: Chrome metal supply and waste.

2.06 SINKS

- A. SK-1: Elkay “Lustertone,” Model LR-3319. Countertop, 18 ga. stainless steel, 33 in. x 19-1/2 in. x 6.5 in. deep, double compartment, each 14 in. x 14 in. x 6.5 in. deep, 3-hole punching, #3 finish, and undersides fully undercoated.
 - 1. Faucet: American standard model 7231. Brass gooseneck spout, 2.2 GPM aerator, and chrome water supply piping with wheel angle stops.
 - 2. Food waste grinder: In-Sink-Erator Model PRO ES. Install in drain opening in left compartment. Stainless steel grinding chamber, sound-insulated, stainless steel shredder and impeller, overload protection, 3/4 HP, 120 volts, listed and labeled by Underwriters Laboratories, Inc. (UL).
 - 3. Drain: Elkay Model LK-35. Strainer, 1-1/2 in. chrome 17 ga. tailpiece, chrome cast brass trap with cleanout plug, and chrome 17 ga. drain to wall.
 - 4. Escutcheon plates: Chrome metal supply and waste.
 - 5. Coordinate size of sink with the Casework Contractor before ordering sink. Install sink in countertop and casework.

2.07 LAUNDRY SINK

- 6. LS-1: Fiat Model FL-1. Molded stone, 20-1/4 in. x 17-1/4 in. x 13 in. high, 3 in. outlet.
 - a. Faucet: Chicago Faucet Model 897. Service sink faucet at 3.0 GPM, bucket hook, hose end rigid spout with top wall brace, vacuum breaker, lever handles, stops in shanks, rough chrome-plated. Mount faucet at 36 in. above finished floor.
 - b. Strainer: Fiat Model 1453-BB.
 - c. Hose and hose bracket: Fiat Model 832-AA.

PART 3 EXECUTION

3.01 COORDINATION

- A. Coordinate exact location and installed height of plumbing fixtures with the A/E and all trades.
- B. Coordinate mounting height of all fixtures and controls with A/E mounting height diagram. Refer to 2009 ICC A117.1 and 2010 ADA Standards for Accessible design.
- C. Before ordering countertop fixtures and proceeding with rough-in work, coordinate countertop fixture selection with approved millwork shop drawings and the General Trades Contractor.

3.02 INSTALLATION

- A. Install fixtures and trim according to Manufacturer’s recommendations.
- B. Wall-mounted fixtures shall be mounted at the following heights or according to Manufacturer’s recommendations, unless noted or directed otherwise:

Accessible-Compliant Water Closet	17 min. to 19 in. max. to top of seat
Wall-Mounted Urinal	24 in. to lip.
Accessible-Compliant Urinal	17 in. max. to lip.
- C. Install fixture carriers and accessories on wall-mounted fixtures, such as water closets and urinals. Carriers shall be anchored securely to floor.
- D. Review approved millwork shop drawings from the General Trades Contractor. Coordinate location and size of countertop fixtures, casework and openings before proceeding with rough-in work.
- E. Chrome-plated brass escutcheons shall be installed on waste and supply piping at walls, including piping located inside cabinets.

- F. Insulate domestic water supplies and drain piping that could come in contact with wheelchair occupants. Refer to Section 22 07 19.
- G. Provide stops on all cold and hot water supplies to fixtures.
- H. Fixtures shall be carefully assembled and connected to the required plumbing inlets and outlets, and tested so the fixtures will function correctly when the Work is completed.
- I. Provide anchors and supports behind walls and chases for flush valve supply piping.
- J. Self-sustaining water closet seats shall be field adjusted to self-sustain in any position.
- K. Adjust hot water temperature of 105 deg. F. MAXIMUM.
- L. After the installation of the plumbing fixtures and trim is completed, all connecting pipes shall be flushed out through the fixtures to eliminate scale. Clean faucet strainers. Refer to Section 22 11 16 for information on sterilization of water lines.
- M. Provide all required seals, gaskets, nuts, bolts, and washers.
- N. All fixtures shall be thoroughly cleaned of paper and dirt before final acceptance.
- O. Adjust self-closing faucets for closing time of (8) seconds.
- P. Adjust pressure of wash fountain spray.

3.03 WIRING

- A. Provide power wiring and wall switch for food waste grinder.

END OF SECTION 224200

SECTION 262200 - LOW-VOLTAGE TRANSFORMERS

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 types of dry-type transformers rated 600 V and less, with capacities up to 750 kVA:
 - 1. Dry Type Distribution transformers.
 - 2. Buck-boost transformers.

1.3 SUBMITTALS

- A. Product Data: Include rated nameplate data, capacities, weights, dimensions, minimum clearances, installed devices and features, and performance for each type and size of transformer indicated.
- B. Shop Drawings: Detail equipment assemblies and indicate dimensions, weights, loads, required clearances, method of field assembly, components, and location and size of each field connection.
 - 1. Wiring Diagrams: Power, signal, and control wiring.
- C. Manufacturer Seismic Qualification Certification: Submit certification that transformers, accessories, and components will withstand seismic forces defined in Division 26 Section "Vibration and Seismic Controls for Electrical Systems." Include the following:
 - 1. Basis for Certification: Indicate whether withstand certification is based on actual test of assembled components or on calculation.
 - a. The term "withstand" means "the unit will remain in place without separation of any parts from the device when subjected to the seismic forces specified and the unit will be fully operational after the seismic event."
 - 2. Dimensioned Outline Drawings of Equipment Unit: Identify center of gravity and locate and describe mounting and anchorage provisions.
 - 3. Detailed description of equipment anchorage devices on which the certification is based and their installation requirements.
- D. Qualification Data: For testing agency.
- E. Source quality-control test reports.
- F. Field quality-control test reports.
- G. Operation and Maintenance Data: For transformers to include in emergency, operation, and maintenance manuals.

1.4 QUALITY ASSURANCE

- A. Source Limitations: Obtain each transformer type through one source from a single manufacturer.
- B. Electrical Components, Devices, and Accessories: Listed and labeled as defined in NFPA 70, Article 100, by a testing agency acceptable to authorities having jurisdiction, and marked for intended use.
- C. Comply with IEEE C57.12.91, "Test Code for Dry-Type Distribution and Power Transformers."

- D. Dry Type Distribution Transformers comply with 2016 DOE Efficiency Standards.
- E. Buck-Boost Transformers comply with NEMA ST 1, UL 506.
- F. Sound levels NEMA ST1-4 and ANSI C89.1.

1.5 DELIVERY, STORAGE, AND HANDLING

- A. Temporary Heating: Apply temporary heat according to manufacturer's written instructions within the enclosure of each ventilated-type unit, throughout periods during which equipment is not energized and when transformer is not in a space that is continuously under normal control of temperature and humidity.

1.6 COORDINATION

- A. Coordinate size and location of concrete bases with actual transformer provided. Cast anchor-bolt inserts into bases. Concrete, reinforcement, and formwork requirements are specified in Division 03.
- B. Coordinate installation of wall-mounting and structure-hanging supports with actual transformer provided.

PART 2 - PRODUCTS

2.1 MANUFACTURERS

- A. Manufacturers: Subject to compliance with requirements, provide products by one of the following:
 - 1. ACME Electric Corporation; Power Distribution Products Division.
 - 2. Challenger Electrical Equipment Corp.; a division of Eaton Corp.
 - 3. Eaton Electrical Inc.; Cutler-Hammer Products.
 - 4. General Electric Company.
 - 5. Hammond Co.; Matra Electric, Inc.
 - 6. Micron Industries Corp.
 - 7. Siemens Industry, Inc.
 - 8. Sola/Hevi-Duty.
 - 9. Square D; Schneider Electric.
 - 10. Powersmiths.
 - 11. PQI.
 - 12. Mirrus.
 - 13. E-Factor

2.2 GENERAL TRANSFORMER REQUIREMENTS

- A. Description: Factory-assembled and -tested, air-cooled units for 60-Hz service.
- B. Cores: Grain-oriented, non-aging silicon steel.
- C. Coils: Continuous windings without splices except for taps.
 - 1. Internal Coil Connections: Brazed or pressure type.
 - 2. Coil Material: Copper.
- D. Electrostatic Shielding: Each winding shall have an independent, single, full-width copper electrostatic shield arranged to minimize interwinding capacitance.
 - 1. Arrange coil leads and terminal strips to minimize capacitive coupling between input and output terminals.
 - 2. Include special terminal for grounding the shield.
- E. Wall Brackets: Manufacturer's standard brackets up to 45 kVA.
- F. Fungus Proofing: Permanent fungicidal treatment for coil and core.

- G. Low-Sound-Level Requirements: Minimum of 3 dBA less than NEMA ST 20 standard sound levels when factory tested according to IEEE C57.12.91.

2.3 DRY TYPE DISTRIBUTION TRANSFORMERS

- A. Comply with NEMA ST 20, and list and label as complying with UL 1561.
- B. Provide transformers that are constructed to withstand seismic forces specified in Division 26 Section "Vibration and Seismic Controls for Electrical Systems."
- C. Cores: One leg per phase.
- D. Enclosure: Ventilated, NEMA 250, Type 2.
 - 1. Core and coil shall be encapsulated within resin compound, sealing out moisture and air.
 - 2. Ventilation shall be natural and not required use of fans to maintain ratings.
- E. Transformer Enclosure Finish: Comply with NEMA 250.
- F. Taps for Transformers 15 kVA and Larger: Two 2.5 percent taps above and four 2.5 percent taps below normal full capacity.
- G. Insulation Class: 220 deg C, UL-component-recognized insulation system with a maximum of 150 deg C rise above 40 deg C ambient temperature.
- H. Energy Efficiency for Transformers Rated 15 kVA and Larger:
 - 1. Complying with 2016 DOE Efficiency Standards.

2.4 BUCK-BOOST TRANSFORMERS

- A. Description: Self-cooled, two-winding dry type, rated for continuous duty and with wiring terminals suitable for connection as autotransformer. Transformers shall comply with 2016 DOE Efficiency Standards and shall be listed and labeled as complying with UL 506 or UL 1561.
- B. Enclosure: Ventilated, NEMA 250, Type 2.

2.5 IDENTIFICATION DEVICES

- A. Nameplates: Engraved, laminated-plastic or metal nameplate for each transformer, mounted with corrosion-resistant screws. Nameplates and label products are specified in Division 26 Section "Identification for Electrical Systems."

2.6 SOURCE QUALITY CONTROL

- A. Test and inspect transformers according to IEEE C57.12.91.
- B. Factory Sound-Level Tests: Conduct sound-level tests on equipment for this Project.

PART 3 - EXECUTION

3.1 EXAMINATION

- A. Examine conditions for compliance with enclosure- and ambient-temperature requirements for each transformer.
- B. Verify that field measurements are as needed to maintain working clearances required by NFPA 70 and manufacturer's written instructions.
- C. Examine walls, floors, roofs, and concrete bases for suitable mounting conditions where transformers will be installed.

- D. Verify that ground connections are in place and requirements in Division 26 Section "Grounding and Bonding for Electrical Systems" have been met. Maximum ground resistance shall be 5 ohms at location of transformer.
- E. Proceed with installation only after unsatisfactory conditions have been corrected.

3.2 INSTALLATION

- A. Install wall-mounting transformers level and plumb with wall brackets fabricated by transformer manufacturer.
 - 1. Brace wall-mounting transformers as specified in Division 26 Section "Vibration and Seismic Controls for Electrical Systems."
- B. Construct concrete bases and anchor floor-mounting transformers according to manufacturer's written instructions and requirements in Division 26 Section "Vibration and Seismic Controls for Electrical Systems."
- C. All transformers except wall mounted shall be mounted on 4" concrete pads. Neoprene rubber vibration isolators shall be provided between transformer case and concrete pad. Connections shall be made with flexible conduit. Vibration isolation pads shall be ribbed neoprene rubber.

3.3 CONNECTIONS

- A. Ground equipment according to Division 26 Section "Grounding and Bonding for Electrical Systems."
- B. Connect wiring according to Division 26 Section "Low-Voltage Electrical Power Conductors and Cables."

3.4 FIELD QUALITY CONTROL

- A. Tests and Inspections:
 - 1. Perform each visual and mechanical inspection and electrical test stated in NETA Acceptance Testing Specification. Certify compliance with test parameters.
 - 2. Measure and document transformer primary no load input currents and input/output voltages at startup. Measure and document output voltage and adjust transformer taps as required for correct voltage level for operation (3% of output level). If no load input currents vary by more than 20% from phase to phase, consult manufacturer and notify engineer (IR and primary resistance testing will be required).
- B. Remove and replace units that do not pass tests or inspections and retest as specified above.
- C. Infrared Scanning: Two months after Substantial Completion, perform an infrared scan of transformer connections.
 - 1. Use infrared-scanning device designed to measure temperature or detect significant deviations from normal values. Provide documentation of device calibration.
 - 2. Prepare a certified report identifying transformer checked and describing results of scanning. Include notation of deficiencies detected, remedial action taken, and scanning observations after remedial action.
- D. Test Labeling: On completion of satisfactory testing of each unit, attach a dated and signed "Satisfactory Test" label to tested component.

3.5 ADJUSTING

- A. Record transformer secondary voltage at each unit for at least 48 hours of typical occupancy period. Adjust transformer taps to provide optimum voltage conditions at secondary terminals. Optimum is defined as not exceeding nameplate voltage plus 10 percent and not being lower than nameplate voltage minus 3 percent at maximum load conditions. Submit recording and tap settings as test results.

- B. Connect buck-boost transformers to provide nameplate voltage of equipment being served, plus or minus 5 percent, at secondary terminals.
 - C. Output Settings Report: Prepare a written report; recording output voltages and tap settings.
- 3.6 CLEANING
- A. Vacuum dirt and debris; do not use compressed air to assist in cleaning.

END OF SECTION 262200



DOT-200023 ODOT - EATON OUTPOST

5656 US-127 Eaton, Ohio 45320

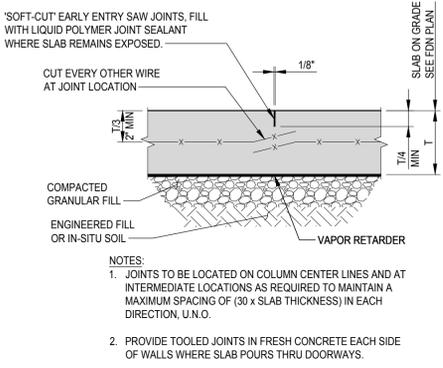
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1	12/17/21	REVISION 1 PERMIT/BID SET
-	12/10/21	BID SET
-	11/12/21	PERMIT SET

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DATE: **12/10/21**
DRAWN BY: **SMA/DFS**

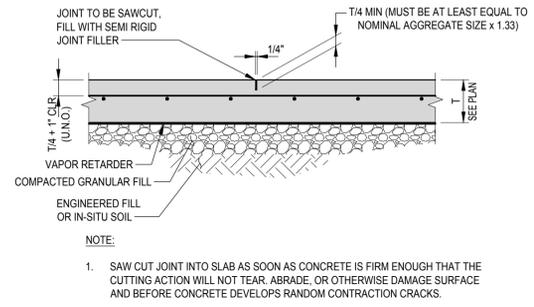
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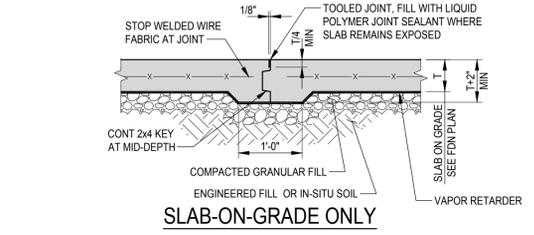
TYPICAL FOUNDATION DETAILS



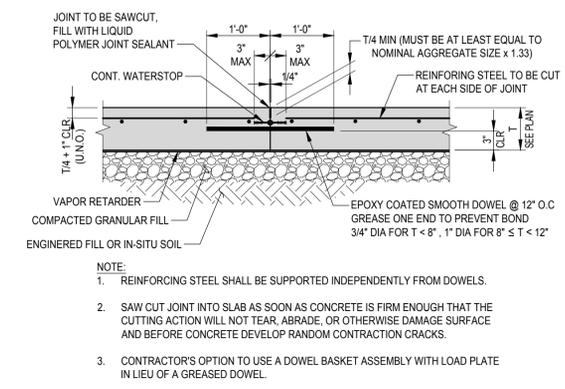
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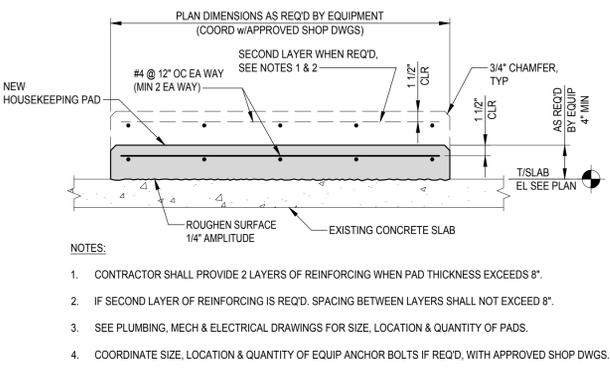
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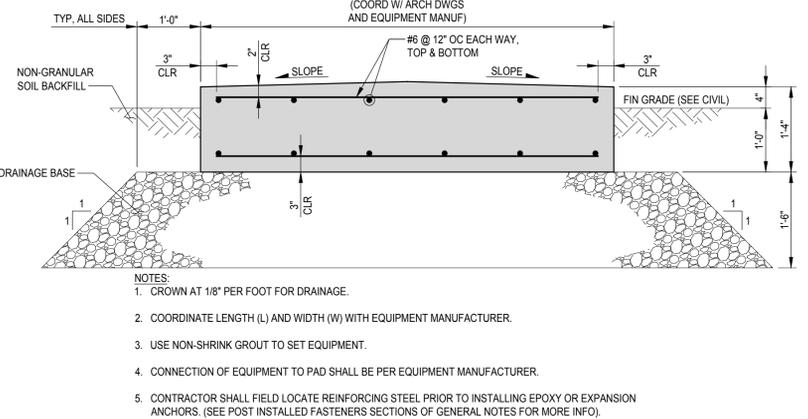
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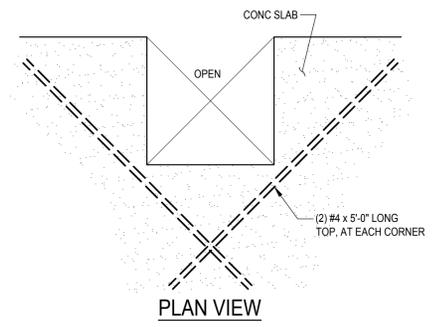
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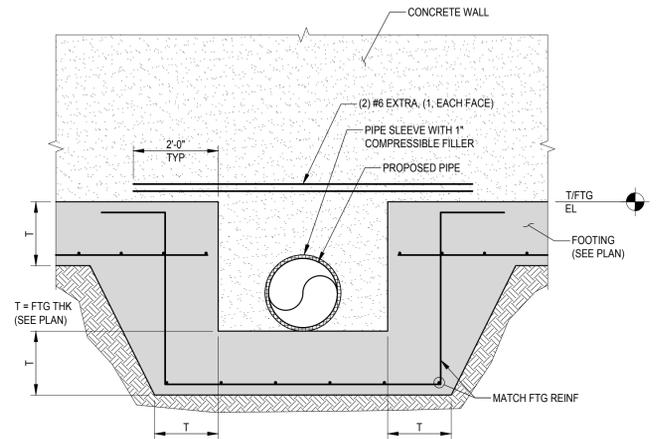
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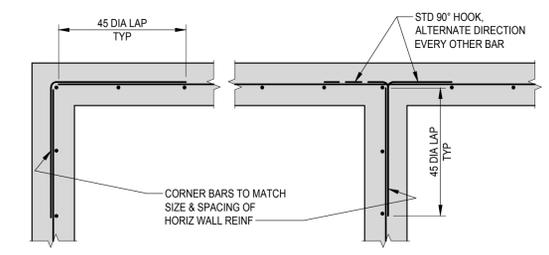
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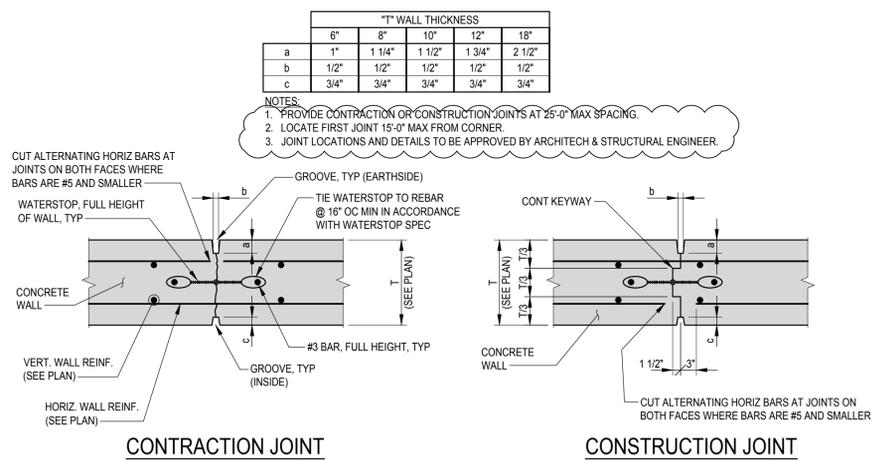
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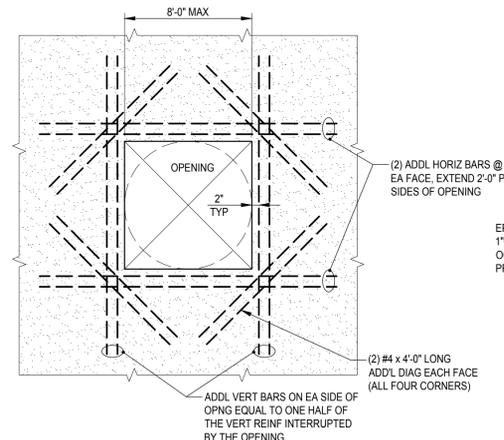
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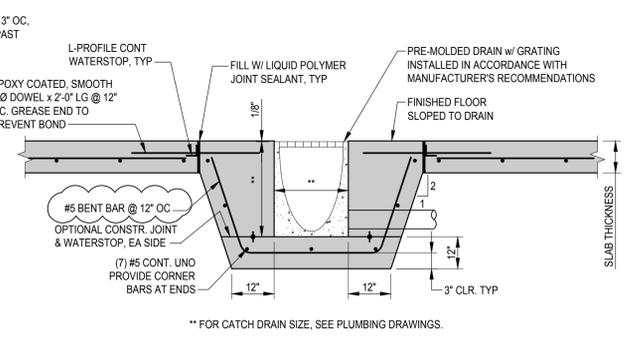
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**DOT-200023
 ODOT - EATON
 OUTPOST**

5656 US-127 Eaton, Ohio 45320

MARK	DATE	DESCRIPTION
2	01/14/22	ADDENDUM 002
1	12/17/21	REVISION 1 PERMIT/BID SET
-	12/10/21	BID SET
-	11/12/21	PERMIT SET

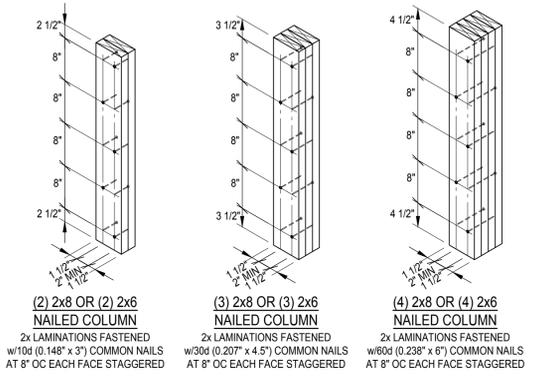
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SHEET TITLE

TYPICAL FRAMING DETAILS

S-004

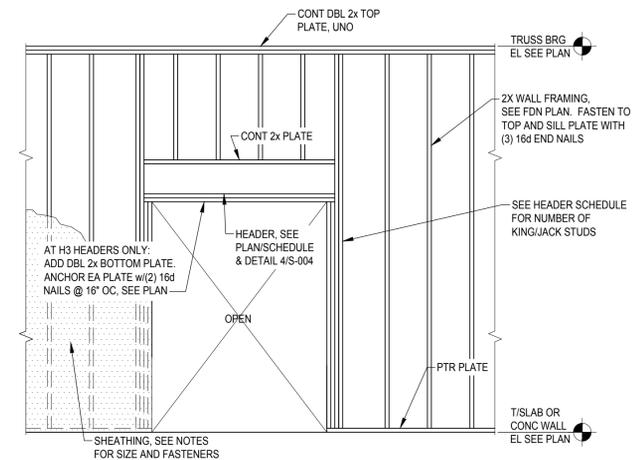


TYPICAL BUILT-UP COLUMN DETAIL

1
S-004

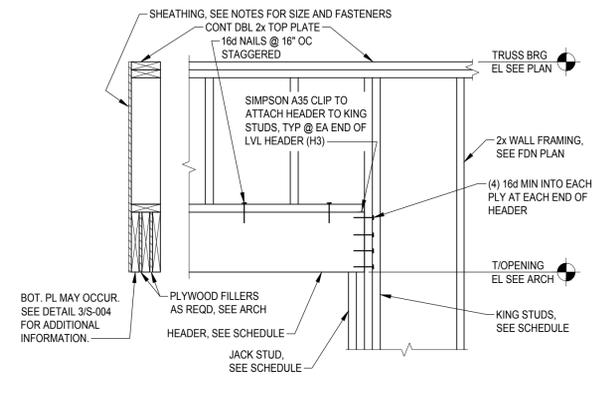
TYPICAL MULTI-MEMBER HEADER DETAIL

2
S-004



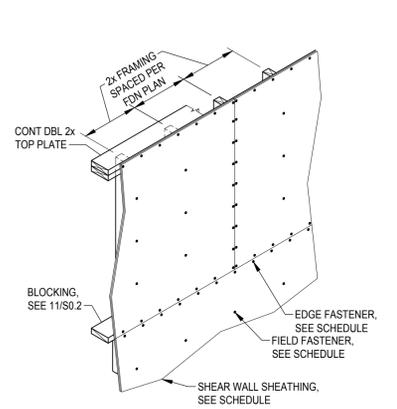
TYPICAL WALL AND OPENING CONSTRUCTION DETAIL

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S-004



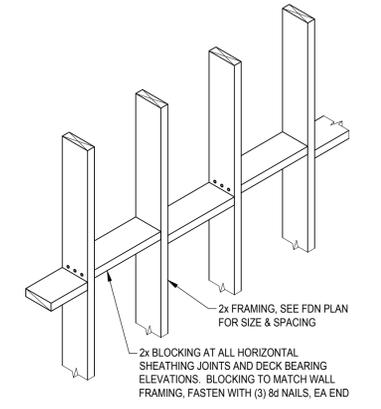
TYPICAL WOOD HEADER CONSTRUCTION DETAIL

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S-004



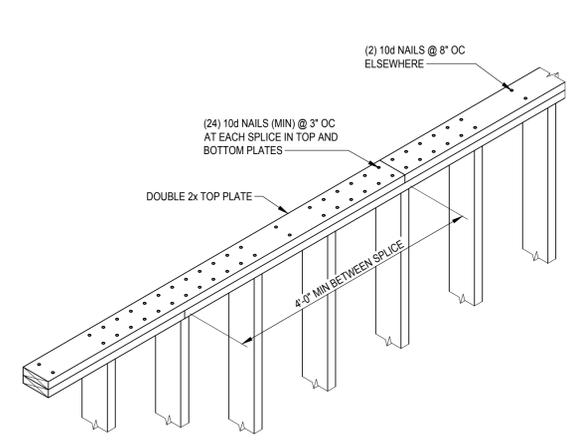
TYPICAL SHEAR WALL CONSTRUCTION DETAIL

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S-004



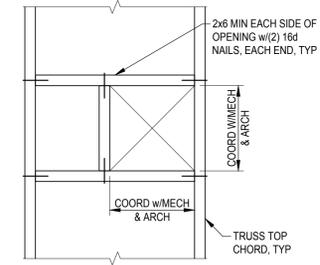
TYPICAL SHEAR WALL PANEL EDGE BLOCKING DETAIL

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S-004



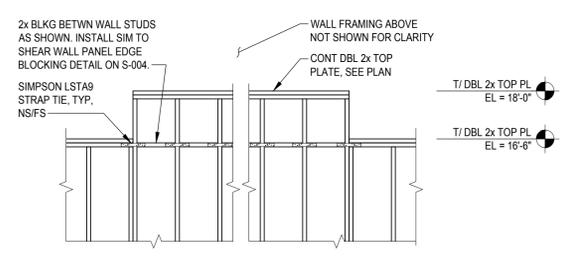
TYPICAL DOUBLE TOP PLATE SPLICE DETAIL

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S-004



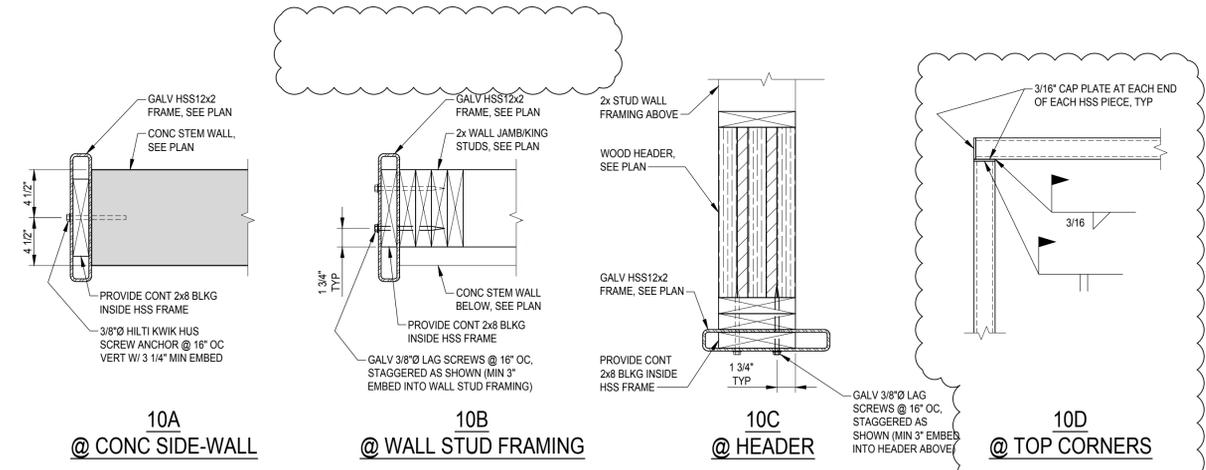
TYPICAL FRAMED OPENING DETAIL

8
S-004



TYP CHANGE IN DBL 2x TOP PLATE ELEVATION

9
S-004



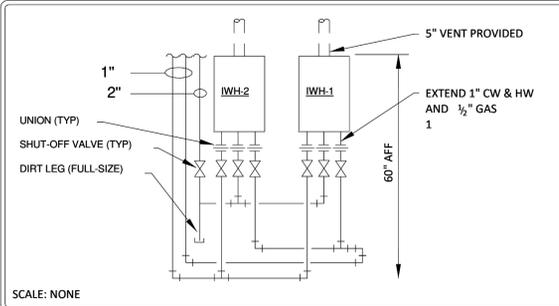
TYP JAMB/HEADER FRAME ATTACHMENT

10
S-004

SCALE: NTS

GAS WATER HEATER DETAIL

8



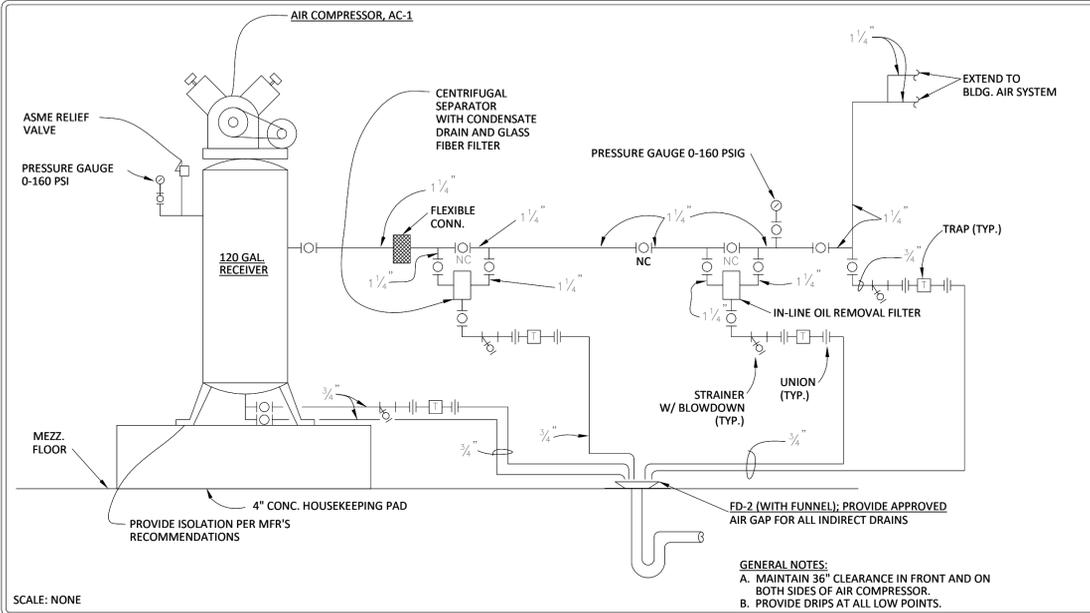
OM BLDG GAS-FIRED EQUIPMENT CONNECTION SCHEDULE

TAG NO.	GAS SUPPLY FINAL CONN.*	ITEM	INPUT CAPACITY (MBH)	REMARKS
G-1	1"	BACK-UP GENERATOR	583	PROVIDE SHUT-OFF VALVE, DIRT LEG, STRAINER, REGULATOR, AND UNION.
IRH-1 TO IRH-6	1/2"	INFRARED HEATER	125	PROVIDE SHUT-OFF VALVE, DIRT LEG, STRAINER, AND UNION.
PW-1	1-1/2"	POWER WASHER	400	PROVIDE SHUT-OFF VALVE, DIRT LEG, STRAINER, AND UNION.
IWH-1 TO IWH-2		INSTANTANEOUS HEATER	200	PROVIDE SHUT-OFF VALVE, DIRT LEG, STRAINER, AND UNION.
OM TOTAL CONNECTED INPUT CAPACITY (MBH)			2133	

* VERIFY FINAL CONNECTION SIZE WITH MANUFACTURER

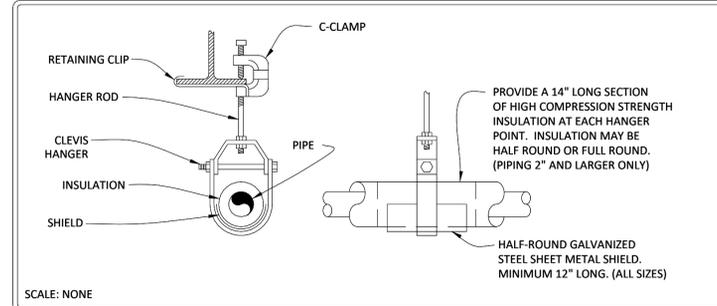
15 H.P. TWIN CYLINDER AIR COMPRESSOR AC-1 PIPING

5



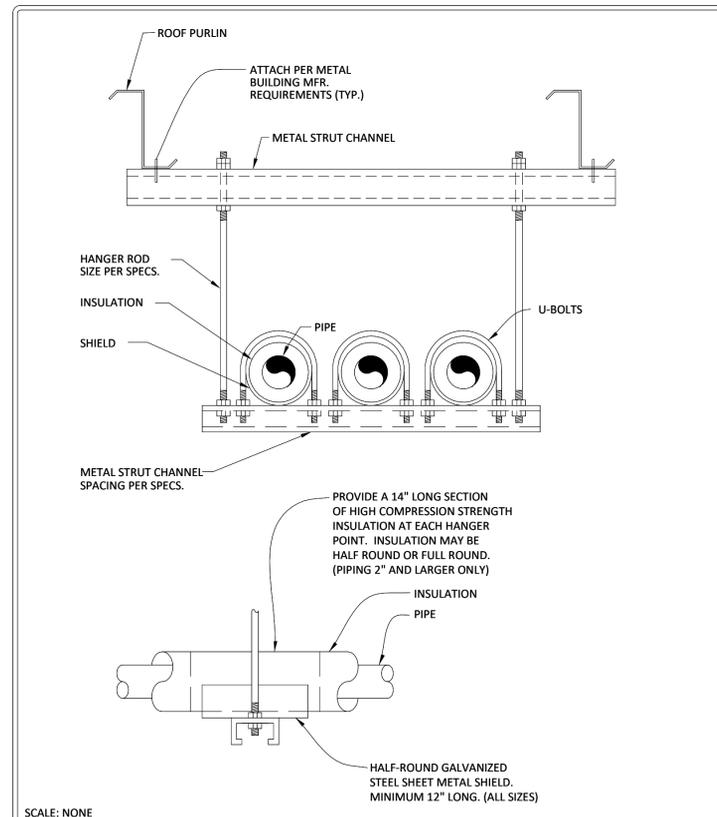
INDIVIDUAL PIPE HANGER DETAIL

1



TRAPEZE PIPE HANGER DETAIL

2



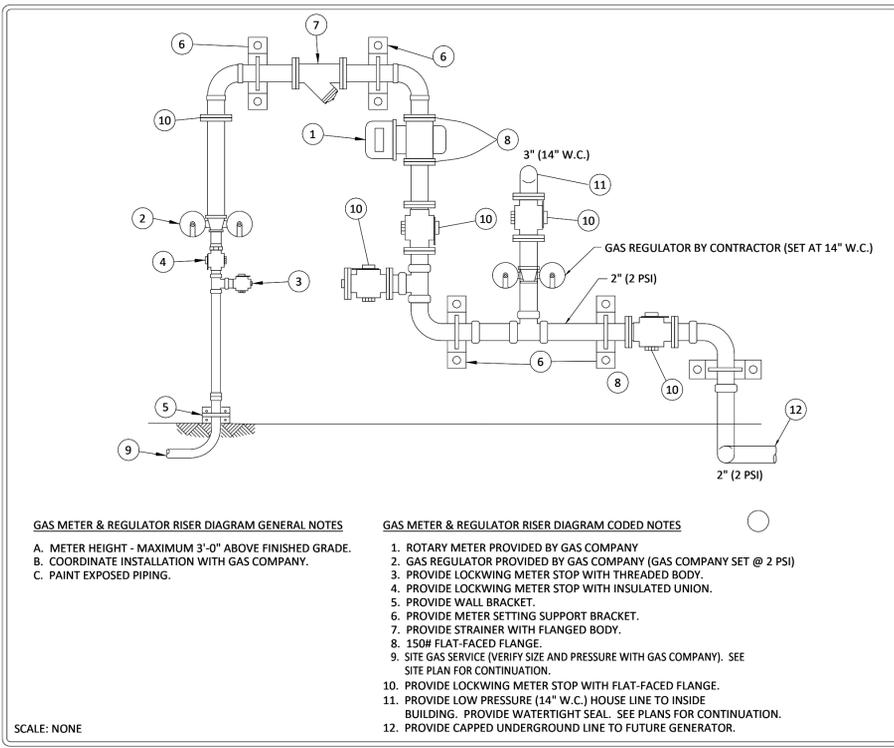
FIXTURE & EQUIPMENT BRANCH SIZE SCHEDULE

FIXTURE	DOMESTIC CW	DOMESTIC HW	OUTLET	VENT	REMARKS
AC-1	--	--	1-1/4"	--	AIR COMPRESSOR.
BFP-1	2-1/2"	--	--	--	DOMESTIC WATER BACKFLOW PREVENTER
BFP-2	1-1/2"	--	--	--	POWER WASHER BACKFLOW PREVENTER
BFP-4	2"	--	--	--	CHASSIS WASH BACKFLOW PREVENTER
ESEW-1	1-1/4"	1-1/4"	1-1/2"	--	EMERGENCY SHOWER/EYE WASH
BF-1	1/2"	--	1-1/2"	1-1/2"	ADA-COMPLIANT, SINGLE LEVEL, BOTTLE FILLER.
FD-1	--	--	3"	1-1/2"	5" DIA. STRAINER, 3/4" TRAP PRIMER CONNECTION.
FD-2	--	--	3"	1-1/2"	5" DIA. STRAINER, 3/4" TRAP PRIMER CONNECTION, WITH FUNNEL.
HB-1	3/4"	--	--	--	HOSE BIBB, INSTALL @ 24" A.F.F. PROVIDE VACUUM BREAKER.
LAV-1	1/2"	1/2"	1-1/2"	1-1/2"	ADA-COMPLIANT, WALL MOUNT.
LS-1	3/4"	3/4"	3"	1-1/2"	LAUNDRY SINK.
SK-1	1/2"	1/2"	1-1/2"	1-1/2"	S.S., DOUBLE BOWL, COUNTERTOP W/ FOOD WASTE GRINDER.
TP-1	1/2"	--	--	--	PROVIDE 3/4" LINE TO EACH FLOOR DRAIN.
UR-1	3/4"	--	2"	1-1/2"	WALL-MTD. FLUSH VALVE
WC-1	1"	--	4"	2"	FLOOR-MTD. REAR OUTLET, FLUSH VALVE, ELONGATED BOWL, OPEN FRONT SEAT
WH-1	3/4"	--	--	--	FREEZE-RESISTANT, WALL HYDRANT, MOUNT @ 24" A.F.F. INTEGRAL VACUUM BREAKER.
ET-1	3/4"	--	--	--	POTABLE WATER EXPANSION TANK, 2 GALLON
EH-1	3/4"	3/4"	--	--	15 GALLON ELECTRIC WATER HEATER, AO SMITH MODEL DEL-15, ONE 2.5 KW ELEMENT, 10 GPH RECOVERY CAPACITY, 240/1/60 POWER.
IWH-1	1-1/4"	1-1/4"	--	--	ULTRA-LOW NOX CONDENSING GAS FIRED INSTANTANEOUS WATER HEATER. AO SMITH MODEL ATI-540H, 199 MBH, 6 GPM AT 60 DEG. RISE., MULTI-LINK CONTROLS.
IWH-2	1-1/4"	1-1/4"	--	--	ULTRA-LOW NOX CONDENSING GAS FIRED INSTANTANEOUS WATER HEATER. AO SMITH MODEL ATI-540H, 199 MBH, 6 GPM AT 60 DEG. RISE., MULTI-LINK CONTROLS.

GENERAL NOTE: REFER TO SPECIFICATIONS FOR LIST OF APPROVED MANUFACTURERS.

GAS METER AND REGULATOR RISER DIAGRAM

6

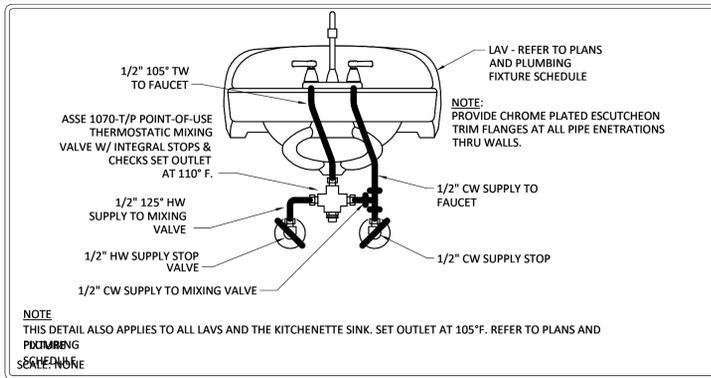


GAS METER & REGULATOR RISER DIAGRAM GENERAL NOTES
 A. METER HEIGHT - MAXIMUM 3'-0" ABOVE FINISHED GRADE.
 B. COORDINATE INSTALLATION WITH GAS COMPANY.
 C. PAINT EXPOSED PIPING.

GAS METER & REGULATOR RISER DIAGRAM CODED NOTES
 1. ROTARY METER PROVIDED BY GAS COMPANY
 2. GAS REGULATOR PROVIDED BY GAS COMPANY (GAS COMPANY SET @ 2 PSI)
 3. PROVIDE LOCKWING METER STOP WITH THREADED BODY.
 4. PROVIDE LOCKWING METER STOP WITH INSULATED UNION.
 5. PROVIDE WALL BRACKET.
 6. PROVIDE METER SETTING SUPPORT BRACKET.
 7. PROVIDE STRAINER WITH FLANGED BODY.
 8. 150# FLAT-FACED FLANGE.
 9. SITE GAS SERVICE (VERIFY SIZE AND PRESSURE WITH GAS COMPANY). SEE SITE PLAN FOR CONTINUATION.
 10. PROVIDE LOCKWING METER STOP WITH FLAT-FACED FLANGE.
 11. PROVIDE LOW PRESSURE (14" W.C.) HOUSE LINE TO INSIDE BUILDING. PROVIDE WATERTIGHT SEAL. SEE PLANS FOR CONTINUATION.
 12. PROVIDE CAPPED UNDERGROUND LINE TO FUTURE GENERATOR.

TYPICAL LAVATORY PIPING CONNECTION

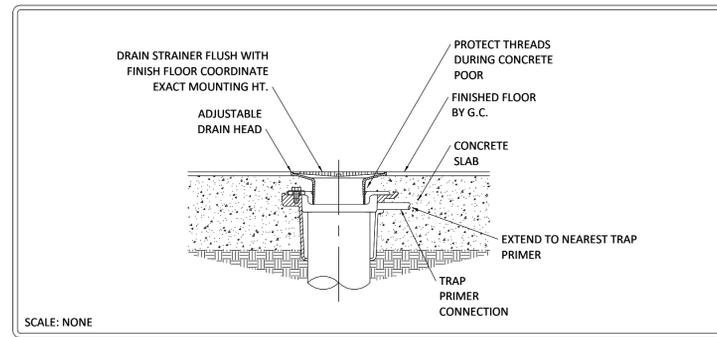
7



NOTE: THIS DETAIL ALSO APPLIES TO ALL LAVS AND THE KITCHENETTE SINK. SET OUTLET AT 105". REFER TO PLANS AND PIPING SCHEDULE.
 SCALE: NONE

TYPICAL FLOOR DRAIN DETAIL

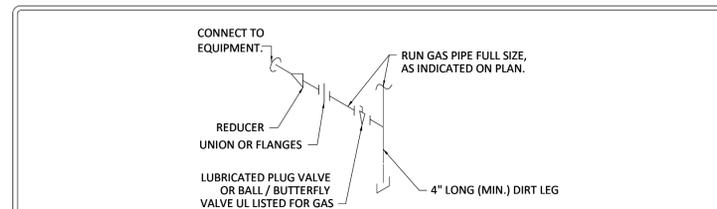
3



SCALE: NONE

TYPICAL GAS PIPING CONNECTION

4



SCALE: NONE

HOSE REEL EQUIPMENT
WHR-1: WATER HOSE REELS: REFER TO SECTION 11 11 00 FOR HOSE REEL SPECIFICATION.
AHR-1: AIR HOSE REELS: REFER TO SECTION 11 11 00 FOR HOSE REEL SPECIFICATION.
PWHR-1: PRESSURE WASHER HOSE: REFER TO SECTION 11 11 10 FOR PRESSURE WASHER HOSE SPECIFICATION.
GENERAL NOTES:
 - PROVIDE SHUT OFF VALVE ON THE VERTICAL PIPE DROP BEFORE THE HOSE REELS AND PRESSURE WASHER HOSE POINT OF CONNECTIONS.
 - PROVIDE VACUUM BREAKER FOR HOSE REELS AND PRESSURE WASHER HOSE PER MANUFACTURER INSTALLATION REQUIREMENTS.



DOT-200023 ODOT - EATON OUTPOST

CONSTRUCTION DOCUMENTS

5656 US-127 Eaton, Ohio 45320

MARK	DATE	DESCRIPTION
3	01/14/22	Addendum 002
1	12/17/21	Revision 1 Permit/Bid Set
	12/10/21	Bid Set
	11/12/21	Permit Set

PROJECT NO: **DOT-200023**
 DATE: **12/17/2021**
 DRAWN BY: **DEL**

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PLUMBING SCHEDULES & DETAILS

