

ADDENDUM NO. 2

To the Contract Provisions for
CITY OF SELAH
YAKIMA COUNTY, WASHINGTON

Phase 2 – Wastewater Treatment Plant Improvements

HLA Project No. 23166

BID OPENING: July 30, 2026

1:00 p.m.

To the attention of all bidders for the above project:

The following additions, revisions, and/or modifications are made to the Contract Documents, Plans, and Specifications for this project:

ITEM 1 – SECTION 6, SPECIAL PROVISIONS AND TECHNICAL SPECIFICATIONS, TABLE OF CONTENTS

Add the following to the table of contents below section 06 10 00:

SECTION 06 74 13 – FIBERGLASS REINFORCED GRATINGS

ITEM 2 – SECTION 6, SPECIAL PROVISIONS AND TECHNICAL SPECIFICATIONS, SECTION 03 30 00 – CAST-IN-PLACE CONCRETE

Remove paragraphs 2.10, 2.11, and 3.04 from section 03 30 00.

ITEM 3 – SECTION 6, SPECIAL PROVISIONS AND TECHNICAL SPECIFICATIONS, SECTION 07 41 11 – METAL ROOF AND WALL PANELS

Remove paragraphs 2.03 and 3.02 from section 07 41 11.

ITEM 4 – SECTION 6, SPECIAL PROVISIONS AND TECHNICAL SPECIFICATIONS, SECTION 06 74 13 – FIBERGLASS REINFORCED GRATINGS

Add the attached section 06 74 13

ITEM 5 – SECTION 6, SPECIAL PROVISIONS AND TECHNICAL SPECIFICATIONS, SECTION 08 30 00 – ROLLING SERVICE DOORS

Revise paragraph 2.02 H. to read “Door Roll: Chain and gear driven, roll to be steel tube with integral shafts, keyed on the drive end and supported by self-aligning greaseable sealed bearings.”

ITEM 6 – SECTION 6, SPECIAL PROVISIONS AND TECHNICAL SPECIFICATIONS, SECTION 13 34 19 – PRE-ENGINEERED METAL BUILDING SYSTEM

Revise paragraph 2.02 I to read “Steel used to form purlins, girts, and eave struts must meet the requirements of ASTM A653 Grade 55 for galvanized material with a minimum yield of 55 ksi. Gauge to be determined by design to meet specified loading conditions. Minimum hot-dip galvanized coating thickness shall be G90.”

Revise paragraph 2.04 A 1. to read as follows:

1. Purlin Criteria:
 - a. Depth: 8”
 - b. Maximum Length: To be determined by design.
 - c. Finish: Hot Dip Galvanized

Revise paragraph 2.04 A 2. to read as follows:

2. Girt Criteria:
 - a. Depth: 8"
 - b. Maximum Length: To be determined by design.
 - c. Finish: Hot Dip Galvanized

Revise paragraph 2.04 B 3. to read as follows:

3. Finish: Hot Dip Galvanized

**ITEM 7 – SECTION 6, SPECIAL PROVISIONS AND TECHNICAL SPECIFICATIONS, SECTION 26 05
33 – RACEWAYS AND BOXES**

Replace section 26 05 33 with the attached section.

**ITEM 8 – SECTION 6, SPECIAL PROVISIONS AND TECHNICAL SPECIFICATIONS, SECTION 26 07
21 – FIRE ALARM SYSTEM**

Revise paragraph 2.1 A. to read as follows:

- A. Available Manufacturers: Subject to compliance with requirements, manufacturers offering products that may be incorporated in the Work include, but are not limited to, the following:
 1. Gamewell-FCI.
 2. Honeywell.
 3. approved equal.

**ITEM 9 – SECTION 6, SPECIAL PROVISIONS AND TECHNICAL SPECIFICATIONS, SECTION 31 23
15 – TRENCH EXCAVATION AND BACKFILL**

Revise paragraph 2.01 D. to read "... Unless otherwise directed by the Engineer, trench backfill material shall be imported select backfill."

**ITEM 10 – SECTION 6, SPECIAL PROVISIONS AND TECHNICAL SPECIFICATIONS, SECTION 41 22
11 – GANTRY CRANE & HOIST**

Add the following to paragraph 2.02:

F. Manually Operated Hoists:

1. Manufacturers:
 - a. Harrington Hoists, Inc.
 - b. Engineer approved equal.
2. Description:
 - a. Comply with ASME HST-2.
 - b. Hoist capacity to match rated capacity of crane.
 - c. Drive: Chain
 - d. Brake: Mechanical type.
 - e. Lift: For clearance as indicated on drawings.
 - f. Chains:
 - 1) Type: Welded Link.
 - 2) Accessories:
 - a) Storage bucket for chain hoists with 10-foot or greater lift.
 - b) Chain guides.

g. Hook:

- 1) Material: Forged steel.
- 2) Bearing: Antifriction type, allowing 360-degree rotation of load.
- 3) Furnish spring-loaded safety latch.
- 4) Furnish nuts keyed to hook shanks by setscrew.

ITEM 11 – SECTION 6, SPECIAL PROVISIONS AND TECHNICAL SPECIFICATIONS, SECTION 43 21 00 – POSITIVE DISPLACEMENT ROTARY LOBE PUMPS

Revise paragraph 2.02 E. to read “Motor Horsepower: 7.5 hp”

ITEM 12 – CONTRACT PLANS – SHEET G-10 (10), AREA 9 P&ID 1

Revise rotary lobe pumps 09-PMP-01, 09-PMP-02, and 09-PMP-03 to have a motor horsepower of 7.5

ITEM 13 – CONTRACT PLANS – SHEET G-11 (11), AREA 9 P&ID 2

Revise foul air pipe from Inlet Hopper 09-FH-01 to P&ID 4 to be 4” foul air pipe.

ITEM 14 – CONTRACT PLANS – SHEET M9-3 (19), M9-4 (20), GP-1 (33), GP-2 (34), GA-1 (35), S9-1 (41), E-4 (52), E-8 (56), E-18 (66), E-20 (68), E-23 (71), E9-6 (77), E9-8 (79), E9-9 (80)

Replace Sheets M9-3, M9-4, E-4, E-8, E-18, E-20, E-23, E9-6, E9-8, and E9-9 with the attached revised sheets.

This ADDENDUM is to be considered as much a part of the contract provisions as if it were included in the body of the Plans and Specifications.

All Bidders shall acknowledge receipt of the ADDENDUM on the proposal form prior to bid opening.

For: Robert J. Scott, PE
HLA Engineering and Land Surveying, Inc.
2803 River Road
Yakima, WA 98902
Phone: (509) 966-7000

07/24/2026

Date

SECTION 06 74 13
FIBERGLASS REINFORCED GRATINGS

PART 1 GENERAL

1.01 DESCRIPTION OF WORK

- A. Work consists of furnishing, fabricating and installing all fiberglass reinforced plastic (FRP) items, with all labor, material and equipment necessary to produce a complete, operable and serviceable installation as shown on the Contract Drawings and as specified herein, and in accordance with the requirements of the Contract Documents.

1.02 RELATED WORK

- A. Section 03 30 00 - Cast-In-Place Concrete
- B. Section 05 50 00 - Metal Fabrications

1.03 REFERENCES

- A. The following is a list of standards which may be referenced in this section:
 - 1. American Society for Testing and Materials (ASTM):
 - a. C177, Standard Test Method for Steady-State Heat Flux Measurements and Thermal Transmission Properties by Means of the Guarded Hot-Plate Apparatus.
 - b. D570, Standard Test Method for Water Absorption of Plastics.
 - c. D635, Standard Test Method for Rate of Burning and/or Extent and Time of Burning of Self-Supporting Plastics in a Horizontal Position.
 - d. D638, Standard Test Method for Tensile Properties of Plastics.
 - e. D695, Standard Test Method for Compressive Properties of Rigid Plastics.
 - f. D696, Standard Test Method for Coefficient of Linear Thermal Expansion of Plastics Between -30 Degrees C and 30 Degrees C.
 - g. D790, Standard Test Methods for Flexural Properties of Unreinforced and Reinforced Plastics and Electrical Insulating Materials.

- h. D732, Shear Strength of Plastics by Punch.
 - i. D2344, Standard Test Method for Apparent Interlaminar Shear Strength of Parallel Fiber Composites by Short-Beam Method.
 - j. D2583, Standard Test Method for Indentation Hardness of Rigid Plastics by Means of a Barcol Impressor.
 - k. E84, Standard Test Method for Surface Burning Characteristics of Building Materials.
- 2. International Conference of Building Officials (ICBO).
 - 3. Occupational Safety and Health Act (OSHA): 29 CFR 19.10, Code of Federal Regulations.
 - 4. Underwriters' Laboratories, Inc. (UL): 94, UL Standard for Safety Tests for Flammability of Plastic Materials for Parts in Devices and Appliances, Fourth Edition.

1.04 DESIGN REQUIREMENTS

- A. This section contains components and connectors that require Contractor design.

1.05 SUBMITTALS

- A. General: Refer to Section 01 33 00 - Submittal Procedures for requirements.
- B. Product Data: The Contractor shall submit the manufacturer's published literature including structural design data, structural properties data, grating load/deflection tables, corrosion resistance tables, certificates of compliance, test reports as applicable, and design calculations for systems not sized or designed in the contract documents.
- C. Shop Drawings: The Contractor shall furnish manufacturer's shop drawings clearly showing materials sizes, types, styles, part or catalog numbers, complete details for the fabrication and erection of components including, but not limited to, location, lengths, type and sizes of fasteners, clip angles, member sizes and connection details.
- D. Samples:
 - 1. The contractor shall submit two (2) sample pieces of each item specified herein for acceptance by the Engineer as to quality, style and color.

Sample pieces shall be manufactured by the method to be used in the work.

E. Informational Data:

1. Design Data:

- a. Contractor design that has been stamped by a registered engineer.

2. Test Reports:

- a. Factory test reports for physical property of product.
- b. Independent laboratory test report, dated within two (2) years of submittal date, of the fire retardant testing conducted on exact type of grating proposed (not a resin test report).

3. Certifications specified in the following Quality Assurance article.

4. Manufacturer's instructions.

- a. Handling and storage requirements.
- b. Manufacture's installation instructions.

G. Closeout Data:

1. Maintenance Data:

2. Warranty: Submit specified warranty.

1.06 QUALITY ASSURANCE

- A. Single-Source: Obtain molded gating and stair treads from one manufacturer in order to achieve standardization for appearance, maintenance, and replacement.
- B. Designer: Calculations required for Contractor design shall be stamped by a registered engineer licensed in the State of Washington.
- C. Fabricator Qualifications: Minimum of five (5) years experience.
- D. Manufacture Qualifications: Minimum of five (5) years experience in the manufacturing of products meeting these specifications.
- E. Regulatory Agency Requirements: Comply with IBC and local Building Code requirements if more than those specified.

1.07 DELIVERY, STORAGE AND HANDLING

- A. General: In accordance with manufacturer's recommendations and in such a manner as to prevent damage of any kind, including overexposure to sunlight.
- B. Insofar as is practical, factory assemble items provided hereunder.
- C. Package and clearly tag parts and assemblies that are of necessity shipped unassembled in a manner that will protect the materials from abrasion, cracking, chipping, twisting, other deformations, and other types of damage, and facilitate identification and final assembly in the field.
- D. Manufactured materials shall be delivered in original, unbroken pallets, packages, containers, or bundles bearing the label of the manufacturer. Adhesives, resins and their catalysts and hardeners shall be crated or boxed separately and noted as such to facilitate their movement to a dry indoor storage facility.

1.08 WARRANTY

- A. General Warranty: The special warranty specified in this Article shall not deprive the Owner of other rights the Owner may have under other provisions of the Contract Documents and shall be in addition to, and run concurrent with, other warranties made by the Contractor under requirements of the Contract Documents.
- B. Manufacturer's Product Warranty: Submit a written warranty, for Owners acceptance, executed by the manufacturer agreeing to repair and replace faulty material or workmanship within the specified warranty period.
- C. Warranty Period: One (1) year from Date of Substantial Completion.

PART 2 PRODUCTS

2.01 MANUFACTURERS

- A. Fibergrate Composite Structures Inc., Addison TX.
(972) 250-1633
- B. IKG Industries, Nashville, TN.
(800) 545-4463
- C. Grating Pacific, LLC, Kent, WA
(800) 942-4041

2.02 GENERAL PRODUCT REQUIREMENTS

- A. All FRP items furnished under this Section shall be composed of fiberglass reinforcement and resin in qualities, properties, quantities, arrangements and dimensions as necessary to meet the design requirements and dimensions as specified in the Contract Documents.
- B. All finished surfaces of FRP items and fabrication shall be smooth, resin-rich, free of voids and without dry spots, cracks, crazes or unreinforced areas. All glass fibers shall be well covered with resin to protect against their exposure due to wear or weathering.
- C. All FRP products shall have a tested flame spread rating of 25 or less per ASTM E-84.
- D. All mechanical clips, fasteners and connection hardware shall be manufactured of Type 316 stainless steel.
- E. Resins shall be VINYL ESTER with chemical formulations as necessary to provide the corrosion resistance, strength and other physical properties as required.

2.03 FABRICATION

- A. General:
 - 1. Measurements: Products specified shall meet the dimensional requirements and tolerances as shown or specified. The Contractor shall provide and /or verify measurements in field for work fabricated to fit field conditions as required by manufacturer to complete the work. When field dimensions are not required, contractor shall determine correct size and locations of required holes and cutouts from field dimensions before fabrication.
 - 2. Sealing: All shop fabricated cuts shall be coated with vinyl ester resin to provide maximum corrosion resistance. All field fabricated cuts shall be coated similarly by the contractor in accordance with the manufacturer's instructions.
 - 3. Hardware: All mechanical clips, fasteners and connection hardware shall be manufactured of Type 316 stainless steel.
- B. Grating:
 - 1. Layout: Each grating section shall be readily removable, except where indicated on drawings.

2. Gratings shall be fabricated free from warps, twists, or other defects which affect appearance and serviceability.
 3. Hardware: Type 316 stainless steel hold-down clips shall be provided and spaced at a maximum of four (4) feet apart with a minimum of four (4) per piece of grating, or as recommended by the manufacture.
 4. Clearance (edge of grating to face of vertical surfaces or other edge of grating): 1/4 inch with a tolerance of plus or minus 1/8 inch.
 5. Provide a minimum of 1 1/2 inch support for all grating edges.
 6. Grating bars shall all align with each other when installed and in final position.
- C. Grating Supports: (See Construction Drawings and Section 05 50 00 – Metal Fabrications.

PART 3 EXECUTION

3.01 EXAMINATION

- A. Verify dimensions, tolerances and method of attachment with other work.

3.02 INSTALLATION

- A. Install in accordance with manufacturer's instructions.
- B. Gratings: Install in accordance with manufacturers assembly drawings. Lock panels securely in place with hold-down fasteners as specified herein. Field cut and drill fiberglass reinforced plastic products with carbide or diamond tipped bits and blades. Seal cut or drilled surfaces in accordance with manufacturer's instructions. Follow manufacturer's instructions when cutting or drilling fiberglass products or using resin products; provide adequate ventilation.
- C. Concrete Embedment Angle: Coordinate installation prior to the beginning of concrete formwork.

3.03 ADJUSTING, CLEANING AND PROTECTION

- A. Repair or replace damaged installed products. Clean installed products as per manufacturer's written instructions.
- B. Remove construction debris from project site and legally dispose of debris.

***** END OF SECTION *****

SECTION 26 05 33
RACEWAYS AND BOXES

PART 1 — GENERAL

1.1 RELATED DOCUMENTS

- A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division 1 Specification Sections, apply to this Section.

1.2 SUMMARY

- A. This Section includes raceways, fittings, boxes, enclosures, and cabinets for electrical wiring.
 - 1. Raceways include the following:
 - a. RMC.
 - b. PRMC.
 - c. LFMC.
 - d. PVC.
 - e. RTRC.
 - 2. Boxes, enclosures, and cabinets include the following:
 - a. Device boxes.
 - b. Outlet boxes.
 - c. Pull and junction boxes.
 - d. Cabinets and hinged-cover enclosures.
- B. Related Sections include the following:
 - 1. Section 26 05 02 for raceway and box supports.
 - 2. Section 26 05 09 for conductors installed in raceways and boxes.
 - 3. Section 26 27 26 for devices installed in boxes.

1.3 DEFINITIONS

- A. LFMC: Liquidtight flexible metal conduit.
- B. RMC: Rigid metal conduit.
- C. PRMC: PVC coated rigid metal conduit.
- D. PVC: Rigid polyvinyl chloride conduit.
- E. RTRC: Reinforced thermosetting Resin Conduit (Fiberglass).
- F. NPT: National Pipe Thread
- G. NEMA: National Electrical Manufacturers Association
- H. ANSI: American National Standards Institute

1.4 SUBMITTALS

- A. General: Submit each item in this Article as described in Section 16010 and Division 1 Specification Sections.
- B. Product Data: For each type raceway and box specified.
 - 1. In addition to the requirements of 16010 and Division 1 Specification sections, submit only one manufacturer for each product type. Multiple manufacturers for the same product will be rejected.

1.5 QUALITY ASSURANCE

- A. Refer to Section 26 05 01 Paragraph 1.7.

1.6 COORDINATION

- A. Coordinate layout and installation of raceways and boxes with other construction elements to ensure adequate headroom, working clearance, and access.
- B. Coordinate conduit stub up locations with approved equipment shop drawing submittals prior to locating conduit stub ups in the slab. Locate conduit stub ups per equipment manufacturer's recommendations and the requirements of the Plans and Specifications.

PART 2 — PRODUCTS

2.1 METAL CONDUIT AND TUBING

- A. RMC:
 - 1. Conduit: Hot dipped galvanized steel with threaded ends meeting ANSI C80.1.
 - 2. Couplings: unsplit, NPT threaded steel cylinders with galvanizing equal to the conduit.
 - 3. Nipples: same as conduit, factory made through eight inches, no running threads.
- B. PRMC (PVC-Coated Rigid Steel Conduit and Fittings):
 - 1. Minimum 40 mil exterior PVC coating, and 2 mil interior urethane coating.
 - 2. Conduit: PVC Coated Conduit meeting ANSI C80.1, NEMA RN-1 and UL 6.
 - 3. Fittings: PVC Coated Conduit Bodies meeting UL 514B, IEC IP69 and UL Type 4X.
 - 4. Hazardous Location Fittings: PVC Coated Hazardous Location Fittings (GUA outlet boxes, Sealing Fittings, Unions, and EC Series Couplings) meeting UL 1203 after coating is applied.
 - 5. Manufacturers:
 - a. RobRoy Industries
 - b. Thomas & Betts Ocal

- c. KorKap
- C. LFMC:
 - 1. Conduit: flexible, galvanized steel convolutions forming a continuous raceway, covered by a liquid tight PVC layer. Electri-Flex Type LA or American Sealtite, Type UA. The use of thinwall conduit is not permitted.
 - 2. Connectors: Hot-Dip galvanized steel or hot-dip galvanized malleable iron, screw in ferrule which covers the end of the conduit inside and out, insulated throat, approved for grounding. Provide with gland nut with integral ground lug for connectors 1-1/2" conduit and larger. O-Z/Gedney Type 4Q series, or approved equal.

2.2 RIGID NONMETALLIC CONDUIT (RNC)

- A. Rigid nonmetallic conduit (RNC) includes PVC and RTRC per NEC Article 352 (Rigid Polyvinyl Chloride Conduit: Type PVC) and NEC Article 355 (Reinforced thermosetting Resin Conduit: Type RTRC) and as follows:
 - 1. PVC:
 - a. NEMA TC 2, Schedule 40 or 80 PVC.
 - b. Fittings: NEMA TC 3; match to conduit or conduit/tubing type and material.
 - 2. RTRC:
 - a. NEMA TC 14
 - b. UL 1684

2.3 OUTLET AND DEVICE BOXES

- A. Concealed in dry indoor locations, flush mounted in walls: Stamped steel, deep drawn one piece (without welds or tab connections), galvanized, with knockouts for conduit or connector entrance, meeting NEMA OS 1, and with plaster or extension rings to suit construction and application.
- B. Exposed dry locations which are not hazardous or are not in process areas: Stamped steel, deep drawn one piece (without welds or tab connections), galvanized, with knockouts for conduit or connector entrance, meeting NEMA OS 1. Boxes 6"x6"x4" or larger may be code gauge fabricated steel continuously welded at seams and painted after fabrication. Covers shall be of the same material and finish as the device box.
- C. Exposed outdoors, below grade, wet locations, or exposed in indoor locations in process areas which are not hazardous: galvanized, cast iron alloy box, one piece, with threaded holes or hubs, integral mounting lugs and with neoprene gaskets and galvanized cast iron alloy cover (covers shall be of the same material and finish as the device box).

- D. Exposed corrosive locations: PVC coated cast iron or stainless steel boxes with threaded hubs, integral mounting lugs and PVC coated covers. Covers shall be of the same material and finish as the device box.
- E. Exposed hazardous locations (whether dry, wet, or corrosive): explosion proof, galvanized, cast iron alloy box, one piece, with threaded holes or hubs, integral mounting lugs and with neoprene gaskets and galvanized cast iron alloy cover. Covers shall be of the same material and finish as the device box.
- F. Masonry boxes where installed per the requirements of the specifications, are not required to be drawn one piece.

2.4 PULL AND JUNCTION BOXES

- A. Concealed in dry indoor locations, flush mounted in walls: Stamped steel, deep drawn one piece (without welds or tab connections), galvanized, with knockouts for conduit or connector entrance, meeting NEMA OS 1, and with plaster or extension rings to suit construction and application.
- B. Exposed dry locations which are not hazardous or are not process areas: Stamped steel, deep drawn one piece (without welds or tab connections), galvanized, with knockouts for conduit or connector entrance, meeting NEMA OS 1. Boxes 6"x6"x4" or larger may be code gauge fabricated steel continuously welded at seams and painted after fabrication. Covers shall be of the same material and finish as the device box.
- C. Exposed outdoors, below grade, wet locations, or exposed in indoor locations in process areas which are not hazardous: Cast-Metal Boxes meeting NEMA FB 1, with gasketed screw down cover. Boxes 6"x6"x4" or larger may be code gauge fabricated stainless steel continuously welded at seams and with rubber gasketed covers. Hoffman or equal. Covers shall be of the same material and finish as the device box. Device boxes associated with control stations shall be the same material as the disconnect and control station enclosure.
- D. Exposed corrosive locations: PVC coated cast iron or stainless steel boxes with threaded hubs, integral mounting lugs and PVC coated covers.
- E. Exposed hazardous Locations: locations (whether dry, wet, or corrosive): explosion proof, galvanized, cast iron alloy box, one piece, with threaded holes or hubs, integral mounting lugs and with neoprene gaskets and galvanized cast iron alloy cover. Covers shall be of the same material and finish as the device box.

2.5 MISCELLANEOUS FITTINGS

- 1. NEMA FB 1; compatible with conduit/tubing materials.
- 2. Deep socket PVC coupling for connecting RTRC to PVC conduit runs.

3. Conduit bodies shall be cast or malleable iron, hot dipped galvanized. Covers shall be of the same material and finish as the fitting. Appleton, Crouse Hinds, OZ Gedney, or equal.
4. Conduit bushings shall be malleable iron. Locknuts and sealing locknuts in sizes smaller than 2 ½" shall be steel. Locknuts and sealing locknuts in sizes 2 ½" and larger shall be malleable iron. Appleton, Cooper Crouse Hinds, OZ Gedney, Thomas Betts or equal.
5. Conduit sealing bushings shall be OZ Gedney Type CSM series. Cabinet sealing bushing shall be OZ Gedney Type GRK.
6. Conduit sealing fittings, drains and breathers shall be OZ Gedney Type EY and DB, or equal Appleton or Crouse Hinds.
7. Through wall and floor seals shall be OZ Gedney FS and WS series.

PART 3 — EXECUTION

3.1 EXAMINATION

- A. Examine surfaces and spaces to receive raceways, boxes, enclosures, and cabinets for compliance with installation tolerances and other conditions affecting performance of raceway installation. Do not proceed with installation until unsatisfactory conditions have been corrected.

3.2 WIRING METHODS

- A. Install RMC or PRMC unless other raceways are shown on the Contract Documents, are required by Code, or are permitted under these specifications.
- B. Where the manufacturer of equipment provided by the Contractor recommends or requires RMC for circuits associated with the equipment, provide RMC or PRMC for the entire circuit, even if other conduit types would otherwise be permitted under these specifications.
- C. Indoors: Use the following wiring methods:
 1. Exposed raceway runs in non-process areas which are dry and above grade: RMC.
 2. Exposed in process areas: RMC or PRMC.
 3. Exposed in corrosive areas: RMC or PRMC.
 4. Exposed Wet Locations: RMC or PRMC.
 5. Concealed:
 - a. In dry accessible building spaces (i.e. above dropped ceilings): RMC.
 6. Connection to Vibrating Equipment (Including Transformers and Hydraulic, Pneumatic, Electric Solenoid, or Motor-Driven Equipment): LFMC. Do not use flexible conduit in place of elbows, offsets, or fittings to attach to equipment. See below for further requirements for the

installation of raceway terminations and connections using flexible connections.

- D. Outdoors: Use the following wiring methods:
 - 1. Exposed: RMC or PRMC.
 - 2. Exposed in corrosive locations: RMC
 - 3. In earth (backfill): RNC or PRMC.
 - a. Use RNC where conduit is indicated on the Plans for underground circuits. It is not permissible to use RMC in outdoor, below grade locations.
 - 4. Connection to Vibrating Equipment: LFMC. Do not use flexible conduit in place of elbows, offsets, or fittings to attach to equipment. See below for further requirements for the installation of raceway terminations and connections using flexible connections.

3.3 INSTALLATION

- A. Install raceways, boxes, enclosures, and cabinets as indicated, according to manufacturer's written instructions. Provide a raceway for each circuit indicated. Do not gang raceway into wireways, pullboxes, junction boxes, etc., without specific approval. Do not group home runs or circuits without approval of the Owner.
- B. Minimum Raceway Size: 1 inch trade size for underground or imbedded circuits, 1 inch trade size for communications circuits, 3/4 inch trade size for other circuits.
- C. Provide PRMC or RTRC elbows for all RNC runs where conduit transitions horizontally or vertically. Where RTRC is used in PVC runs, provide elbows with factory attached socket PVC couplings. Coordinate the radius of all conduit bends, whether factory elbows or bends, or field bends, with the manufacturer's minimum bend radius for the installed cable or conductor.
- D. Provide long radius elbows (sweeps) for conduit runs containing multi-conductor VFD cables (sweeps shall also meet minimum bend radius requirements of VFD cables as described in Section 26 05 19). Bend radius for conduits containing VFD cable shall not be less than 10% greater than the VFD cable manufacturer's minimum bend radius for the installed cable.
- E. Install conduit as a complete, continuous system without wires, mechanically secure and electrically connected to all metal boxes, fittings and equipment. Blank off all unused openings using factory made knockout seals.
- F. Install conduit exposed unless shown otherwise on the Plans.
- G. Do not install raceway in the slab or below grade/slab unless specifically shown on the Plans as being installed in the slab or below grade/slab.

- H. Run parallel or banked raceways together, on common supports where practical. Use factory elbows where elbows can be installed parallel; otherwise, provide field bends for banked raceways. Make bends in parallel or banked runs from same centerline to make bends parallel.
- I. Wherever practical, route conduit with adjacent ductwork or piping and support on common racks. Base required strength of racks, hangers, and anchors on combined weights of conduit and piping.
- J. Exposed Conduit Installation:
 - 1. Install exposed raceways in lines parallel or perpendicular to the building or structural members or the structure lines except where the structure is not level. Follow the surface contours as much as practical. Do not install crossovers or offsets that can be avoided by installing the raceway in a different sequence or a uniform line. Provide adequate headroom.
 - 2. Where several circuits follow a common route, stagger pullboxes or fittings, or if shown grouped in one box, individually fireproof each conduit.
 - 3. Support exposed raceways as specified in Section 26 05 02.
 - a. Provide anchors, hangers, supports, clamps, etc. to support the raceways from the structures in or on which they are installed. Do not space supports further apart than ten feet.
 - b. Provide sufficient clearance to allow conduit to be added to racks, hangers etc. in the future.
 - c. Support raceway within three feet of every outlet box, junction box, gutter, panel, fitting, etc.
 - d. Raceway in "wet" areas shall have clamp backs (spacers) or other appropriate spacers to hold them a minimum of ½ inch off the surface. Horizontal runs on the roof surface shall be blocked at every 5 feet to hold them a minimum of 2 inches above roof surface.
- K. Raceway concealed above ceilings, in furred spaces, under slab, embedded in slab etc., which are normally inaccessible may be run at angles not parallel to the building lines.
- L. Keep raceways at least 6 inches away from parallel runs of flues and steam or hot-water pipes or other heat sources operating at temperatures above 40° C (104° Fahrenheit). Install horizontal raceway runs above water and steam piping.
- M. Where conduits cross building or structure expansion joints, use suitable sliding or offsetting expansion fittings. Unless specifically approved for bonding, use a suitable bonding jumper. For sizes one inch and smaller, a half-loop of flexible conduit between boxes or fittings may be used.

- N. Underground raceway runs:
1. Run as straight as practicable. Make changes in direction and/or grade of sufficient length to allow a gradual change (three foot radius minimum). Make slight offsets with five degree couplings.
 2. Run trench true, and clear of stones or soft spots. Place three inches of fine sand in the trench bottom and tamp into place. Provide preformed plastic spacers on top of sand spaced five feet on center where more than one conduit is placed in a trench. After the raceway is placed in the trench, backfill to six inches above top of conduits with sand, then with native earth backfill passing a No. 8 sieve, free of stones. Do not tamp on top of the conduit until the final backfill is placed. Tamp or water settle the final backfill to finish grade. Compact the backfill as specified under Division 2.
 3. Mark direct buried conduit by an underground line warning tape as described in Section 26 05 02.
 4. Clean underground and embedded conduit two-inch size and above with a wire brush or swab, followed by a mandrel not less than twelve inches long and approximately one-quarter inch smaller in diameter than the conduit internal diameter.
 5. Where raceway exits from grade or concrete, provide the following:
 - a. For runs exiting from grade, slabs or encasement, transition to one of the following for a minimum of 24" inches of raceway (including elbows) before exiting and for vertical runs, a minimum of 3" beyond the exiting point:
 - 1) PRMC
 - 2) RTRC (use for elbow only for PVC conduit runs).
 - b. Do not extend plastic conduit (PVC or RTRC) into the slab, above grade, into buildings or into equipment.
 - c. For equipment to be moved into place at a later date, install a coupling flush with the floor slab and a threaded flush plug.
- O. Under slab raceway runs – not to be installed on this project.
- P. Bend and offset metal conduit with hickey or power bender, standard elbows, conduit fittings or pull boxes. Bending of PVC shall be by hot box bender and, for PVC two inches in diameter and larger, expanding plugs. Make elbows, offsets and bends uniform and symmetrical. Make bends and offsets so ID is not reduced. Keep legs of bends in the same plane and straight legs of offsets parallel, unless otherwise indicated.
- Q. Support conduit connections to motors or other equipment independently of the motor or equipment. Rise or drop vertically to the nearest practicable point of connection to the unit. Run vertical drops to the floor and fasten with a floor flange. Unsupported drops are not permitted. Horizontal runs on

the floor or on equipment are not permitted. Drop or rise at the appropriate closest location. Run conduit on equipment frames or supports to closely follow the contours of the equipment. Locate conduit to maintain access to all equipment services and adjustment points and so as not to interfere with operation of the equipment.

- R. For conduit connections to hubless enclosures, cabinets, and boxes:
1. Connect to enclosures, boxes and devices from below in exposed outdoors, below grade, or wet locations. Make conduit connections to enclosures at the nearest practicable point of entry to the enclosure area where the devices are located to which the circuits contained in the conduit will connect.
 2. Connection methodology shall be determined by area classification and shall follow the most stringent applicable method from:
 - a. In exposed outdoors, below grade, wet locations, or exposed in indoor locations in process areas which are not hazardous use Myers hubs or O-Z/Gedney rain tight conduit hubs.
 - b. In corrosive locations areas, use PVC coated conduit hubs.
 - c. In exposed dry locations which are not hazardous or are not in process areas, connect with double locknuts and with insulating type bushings. Use grounding type bushings where connecting to concentric or eccentric knockouts.
- S. Penetrations for raceways:
1. Do not bore holes in floor and ceiling joists outside center third of member depth or within two feet of bearing points. Holes shall be one inch diameter maximum.
 2. Penetrate through building or structure wall or surfaces with a PVC or sheet metal sleeve with at least ¼" greater interior diameter (ID) than conduit exterior diameter (OD), set flush with walls, pack with fiberglass and seal with silicone sealant and cover with escutcheon plate.
 3. Penetrate through poured-in-place or below grade walls and free slabs, with a sleeve. Set sleeves flush with forms or edges of slab/wall. Pack around conduit with fiberglass and seal with silicone sealant. For penetrations below exterior grade, provide a floor or wall sealing fitting on the interior of the building wall.
 4. Penetrate through roofs with core drill hole ½ inch to 1 inch larger than conduit, flash with neoprene, caulk conduit in place and seal with silicone sealant under flashing. Sleeve roof opening where non-concrete roof construction occurs.
- T. Raceway terminations and connections:
1. Join raceways with fittings designed and approved for the purpose and make joints tight.

2. Make threaded connections waterproof and rustproof by application of a watertight, conductive thread compound prior to terminating conduit. Clean threads of cutting oil before applying thread compound.
3. PRMC: Use only fittings approved for use with that material. Use a manufacturer approved touch-up compound or repair kit on nicks and scrapes in PVC coating after installing conduits.
4. Make raceway terminations tight. Use bonding bushings or wedges at connections subject to vibration. Use bonding jumpers where joints cannot be made tight.
5. Cut ends of conduit square with hand or power saw or pipe cutter. Ream cut ends to remove burrs and sharp ends. Make conduit threads which are cut in the field to have same effective length and same thread dimensions and taper as specified for factory-cut threads.
6. Flexible Connections: Use maximum of 18 inches of flexible conduit for equipment subject to vibration, noise transmission, or movement, such as motors, transformers, generators or similar equipment or equipment such as instruments which must be removed for service. Install flexible conduit in a straight length. Do not use flexible conduit in place of elbows, offsets, or fittings to attach to fixed equipment such as panels, enclosures or switches. With the Owner's approval, longer lengths of flexible conduit may be used for connection to items of equipment which require longer lengths for installation (i.e. 2" conduits and larger) and removal of the equipment for maintenance or replacement purposes. Recessed and semi-recessed lighting fixtures may use up to 6 feet of flexible conduit, or 11 feet of pre-manufactured lighting "whips". Use liquid-tight flexible metal conduit in wet or damp locations. Do not strap flexible conduit to structures or other equipment.
7. Provide double locknuts and insulating bushings at conduit connections to boxes and cabinets. Align raceways to enter squarely and install locknuts with dished part against the box. Use grounding type bushings where connecting to concentric or eccentric knockouts. In "wet" areas, use Myers hubs or O-Z/Gedney rain tight conduit hubs. In "corrosive" areas, use PVC coated conduit hubs.
8. Connect conduits to enclosures at the location of the gutter or device to which the contained conductors will be routed. Route or stub conduits to motors and/or mechanical equipment directly to the connection and locate as close as possible to equipment terminals.
9. Where a device manufacturer requires a device or junction box to permit multiple conduit entries into the device from a single conduit, provide the device or junction box at no additional cost to the Owner.
10. Where raceways are terminated with threaded hubs, screw raceways or fittings tightly into the hub so the end bears against the wire protection shoulder. Where chase nipples are used, align raceways so the coupling

is square to the box and tighten the chase nipple so no threads are exposed.

11. Place conduits at panelboards in the rear line of knockouts where possible. Install spare conduits from flush-mounted panels up to accessible spaces. Install a minimum of one spare three-quarter inch conduit for every three single-pole spare breakers or spaces, or fraction thereof (three conduits minimum).
- U. Keep conduits clean and dry and close each end left exposed. When blowing through conduits, cover electrical components installed in enclosures to avoid blowing dirt or water into equipment. Use temporary closures to prevent foreign matter from entering raceways.
- V. Install pull wires in empty raceways and in empty innerduct. Use No. 14 AWG zinc-coated steel or monofilament plastic line with not less than 200-lb tensile strength. Leave at least 8 inches of slack at each end of the pull wire.
- W. Seal interior of raceways around conductors at (1) hazardous locations, (2) where conduits pass from warm to cold locations, such as the boundaries of air conditioned, heated or refrigerated spaces and where conduits enter or exit buildings from outdoor areas, including underground ducts or conduit runs or (3) where otherwise required by NFPA 70.
 1. Methods used to seal interior of raceways around conductors shall be as follows:
 - a. Install raceway sealing fittings according to manufacturer's written instructions. Locate fittings at suitable, approved, and accessible locations. For hazardous locations, fill them with UL-listed sealing compound. For non-hazardous areas, fill with expansive foam or Ducseal. For concealed raceways, install each fitting in a flush steel box with a blank cover plate having a finish similar to that of adjacent plates or surfaces. Boxes that have electrical devices installed (switches, receptacles etc.) shall not be used in place of a dedicated steel box for installation of the fitting that will house the sealing material.
 - b. Seal conduits using expansive foam or Ducseal where conduits enter through the bottom of motor control centers, switchboards, panelboards and control panels.
 - c. Seal conduits using expansive foam or Ducseal for individual items of equipment where it is not practical to install raceway seal fittings such as building mounted lighting fixtures and convenience receptacles.
 - d. As otherwise required by NFPA 70.
- X. Device and Outlet Boxes

1. Coordinate box locations with building surfaces and finishes to avoid bridging wainscots, joints, finish changes, etc.
 2. Use gang boxes in indoor areas wherever more than one device is used at one location. In wet, corrosive or hazardous areas, use multiple double gang boxes.
 3. Boxes in wet areas shall be surface mounted on channel iron stanchions or set with spacers on walls and shall be attached with clamps or feet (drilling or punching enclosure to mount through side of box or enclosure is not permitted), and they shall have all conduit connections from below arranged to drain moisture away with suitable EYD drains installed at the bottom. It is not permissible to install conduits into the top and side of the boxes at exterior locations unless otherwise noted on Plans.
 4. Attach exposed (surface mounted) boxes to building structure with a minimum of two fasteners. Provide attachments to withstand a force of one-hundred pounds applied vertically or horizontally.
 5. Set exposed device boxes four feet above the finished floor to top of the box unless otherwise noted on the Plans.
 6. Set exposed boxes for lighting switches at 44 inches above the finished floor and within one foot of the door opening on the strike or lock side of the door or on the side closing last.
 7. Arrange boxes used in wet areas to drain moisture away from devices or enclosures for equipment and make conduit connections from below.
 8. Set floor boxes level and adjust to finished floor surface.
- Y. Install pullboxes for underground raceway systems true to line and grade. Provide a compacted foundation of fine sand or three-eighths minus crushed rock for the bearing surface edges of the pullboxes.
- Z. Install wall or surface mounted enclosures and cabinets plumb. Support at each corner.

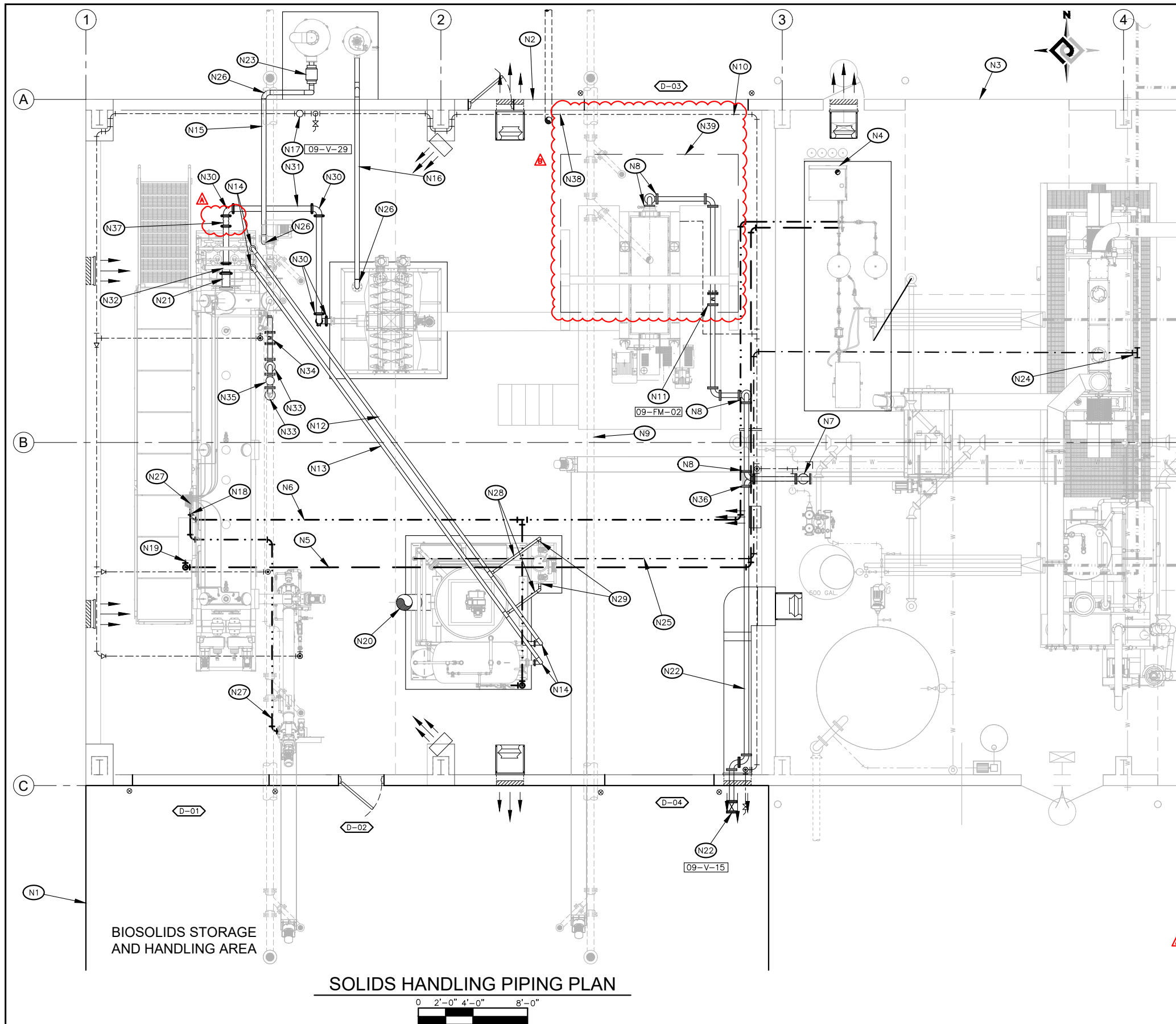
3.4 PROTECTION

- A. Provide protection and maintain ambient conditions (in a manner acceptable to manufacturer and Owner) that ensure coatings, finishes, and cabinets are without damage or deterioration at the time of Substantial Completion.
1. Repair damage to galvanized finishes with zinc-rich paint recommended by manufacturer.
 2. Repair damage to PVC or paint finishes with matching touchup coating recommended by manufacturer.

3.5 CLEANING

- A. On completion of installation, including outlet fittings and devices, inspect exposed finish. Remove burrs, dirt, and construction debris and repair damaged finish, including chips, scratches, and abrasions.

END OF SECTION



CONSTRUCTION NOTES:

- (N1) NEW BIOSOLIDS STORAGE AND HANDLING AREA. SEE STRUCTURAL PLANS.
- (N2) SEE STRUCTURAL PLANS FOR MODIFICATIONS TO EXISTING BIOSOLIDS STORAGE AND HANDLING AREA.
- (N3) EXISTING SOLIDS HANDLING BUILDING.
- (N4) 3" PVC SCH 40 VENT PIPE.
- (N5) 1/2" THREADED 304 STAINLESS STEEL SCH 40 PRESSURIZED AIR SUPPLY TO DRYER CONTROL PANEL. CONNECT TO DRYER AND NITROGEN GENERATOR PER MANUFACTURERS RECOMMENDATIONS. PIPING TO BE ROUTED IN FIELD AND SUPPORTED ON WALLS AND OVERHEAD WHERE FEASIBLE. ENSURE ROUTING DOES NOT CONFLICT WITH CRANE OPERATION. ROUTING SHALL BE SUBJECT TO OWNER APPROVAL.
- (N6) 1/2" THREADED 304 STAINLESS STEEL SCH 40 NITROGEN PIPING TO DRYER DISTRIBUTION PANEL AND THERMAL FLUID HEATER. CONNECT TO DRYER, THERMAL FLUID HEATER, AND NITROGEN GENERATOR PER MANUFACTURER RECOMMENDATIONS. PIPING TO BE ROUTED IN FIELD AND SUPPORTED ON WALLS AND OVERHEAD WHERE FEASIBLE. ENSURE ROUTING DOES NOT CONFLICT WITH CRANE OPERATION. ROUTING SHALL BE SUBJECT TO OWNER APPROVAL.
- (N7) REPLACE EXISTING 4" FLG 90° ELBOW WITH NEW 4" DI FLG TEE. EXTEND PIPE WEST THROUGH WALL. SEE STRUCTURAL PLANS FOR WALL PENETRATION DETAIL. SEE SECTION B, SHEET M9-5.
- (N8) 4" DI FLG 90° ELBOW
- (N9) 6" D.I. DRAIN PIPE. SEE M9-4 FOR DRAINAGE PLAN.
- (N10) NEW NON-POTABLE WATER PIPING TO NEW HOSE BIBS. SEE SHEET M9-12.
- (N11) NEW 4" FLG ELECTROMAGNETIC FLOW METER.
- (N12) NEW 3" THREADED SEAMLESS CARBON STEEL SCH 40 HOT OIL THERMAL FLUID SUPPLY PIPE WITH 1" JACKETED PIPE INSULATION.
- (N13) NEW 3" THREADED SEAMLESS CARBON STEEL SCH 40 HOT OIL THERMAL FLUID RETURN PIPE WITH 1" JACKETED PIPE INSULATION.
- (N14) CONNECT THERMAL FLUID SUPPLY AND RETURN PIPES TO DRYER WITH 300# FLANGES AND/OR FITTINGS AS RECOMMENDED BY DRYER MANUFACTURER.
- (N15) 4" CPVC ODOR CONTROL PIPING. CONNECT TO CHEMSORPTION UNIT AND CONDENSER BLOWER AS RECOMMENDED BY MANUFACTURERS.
- (N16) 4" CPVC ODOR CONTROL PIPING. CONNECT TO CHEMSORPTION UNIT AND INLET HOPPER AS RECOMMENDED BY MANUFACTURERS.
- (N17) 3" MOTOR OPERATED VALVE SUPPLIED BY DRYER MANUFACTURER.
- (N18) NEW DRYER NITROGEN PANEL AND COMPRESSED NITROGEN CONNECTION POINT.
- (N19) COMPRESSED AIR CONNECTION POINT TO NEW DRYER REMOTE I/O PANEL.
- (N20) STACK CONNECTION. COORDINATE STACK VENTING THROUGH ROOF WITH STRUCTURAL PLANS.
- (N21) 6" GLASS LINED DUCTILE IRON DEWATERED SLUDGE PIPING. CONNECT TO DRYER AS RECOMMENDED BY MANUFACTURER.
- (N22) ROUTE SLUDGE BYPASS TO NEW BIOSOLIDS STORAGE AND HANDLING AREA, 4" FLANGED D.I., REINSTALL VALVE AT SOUTH WALL.
- (N23) MIST ELIMINATOR. INSULATE ALL EXTERIOR CONNECTION PIPING.
- (N24) CONNECT TO EXISTING 2" GAS LINE WITH FITTINGS AS NECESSARY. INSTALL NEW 2" GAS LINE. FIELD ROUTE PER OWNER APPROVAL.
- (N25) CONNECT 2" GAS LINE TO THERMAL FLUID HEATER PER MANUFACTURER RECOMMENDATIONS.
- (N26) 4" CPVC 90° ELBOW.
- (N27) 1/2" THREADED 304 STAINLESS STEEL SCH 40 NITROGEN LINE FROM DRYER DISTRIBUTION PANEL TO COOLING CONVEYOR ROTARY AIR-LOCK VALVE.
- (N28) 2" THREADED SEAMLESS CARBON STEEL SCH 40 THERMAL FLUID PIPING WITH 1" INSULATION TO SIDE STREAM FILTER. SUPPLY AND RETURN.
- (N29) 3/4" SIDE STREAM FILTER SUPPLY AND RETURN CONNECTION. CONNECT 2" THERMAL FLUID PIPING TO SIDE STREAM FILTER WITH FITTINGS AS RECOMMENDED BY MANUFACTURER.
- (N30) 4" D.I. VICTAULIC GLASS LINED 90° ELBOW.
- (N31) 4" GLASS LINED DUCTILE IRON DEWATERED SLUDGE PIPING.
- (N32) 4" X 6" D.I. VICTAULIC REDUCER.
- (N33) NEW 4" D.I. FLG 90° ELBOW.
- (N34) NEW 4" FLG ELECTROMAGNETIC FLOW METER BY DRYER MANUFACTURER.
- (N35) AIR VAC RELEASE VALVE BY CONTRACTOR. SEE DETAIL 3.5/SHEET GP-2.
- (N36) REMOVE EXISTING 4" FLANGED GATE VALVE AND INSTALL 4" FLANGED D.I. 90° ELBOW. RELOCATE VALVE TO NEW LOCATION IN TRUCK LOADING BAY.
- (N37) 4" VICTAULIC THERMAL EXPANSION JOINT, SIZE PER DRYER MANUFACTURER RECOMMENDATIONS.
- (N38) NEW 6" WATER SERVICE FOR FIRE SUPPRESSION SYSTEM. COORDINATE LOCATION WITH DESIGN OF FIRE SUPPRESSION SYSTEM.
- (N39) PORTABLE GANTRY CRANE OPERATION EXTENTS.



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ADDENDUM NO. 1
ADDENDUM NO. 2

07/17/26
07/23/26

JOB NUMBER:
23166

DATE:
07/07/26

FILE NAMES:
DRAWING: Sheets - M9.dwg
PLAN: 23166.dwg

DESIGNED BY: RJS
ENTERED BY: DAS

REVISION

DATE

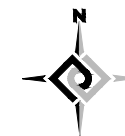
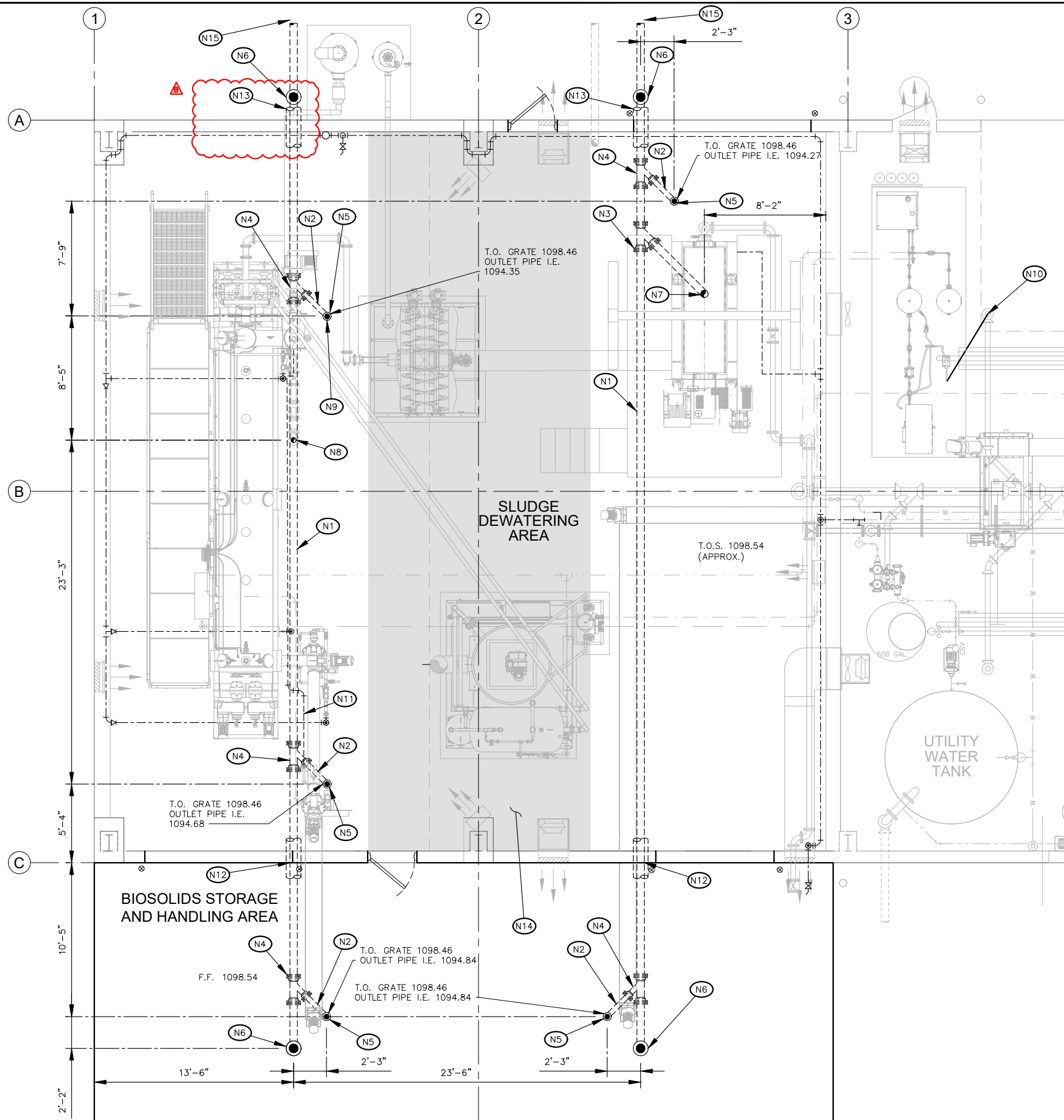
CITY OF SELAH PHASE 2 - WASTEWATER TREATMENT PLANT IMPROVEMENTS

SOLIDS HANDLING PIPING PLAN

M9-3

SHEET

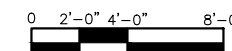
19 OF 82



CONSTRUCTION NOTES:

- (N1) 6" D.I. DRAIN PIPE @ 1/8" PER FOOT, MINIMUM. ROUTE TO EXISTING 15" SEWER LINE. DO NOT CHANGE SLOPE UNTIL OUTSIDE BUILDING STEM WALLS. SEE SHEET C-2 FOR CONNECTION.
- (N2) 4" D.I. DRAIN PIPE @ 1/4" PER FOOT, MINIMUM.
- (N3) 6" D.I. MJ WYE.
- (N4) 6" X 4" D.I. MJ REDUCING WYE.
- (N5) FLOOR DRAIN (ZURN Z-509) WITH P-TRAP. SET FLOOR DRAIN 1" BELOW NOMINAL FLOOR ELEVATION.
- (N6) CLEANOUT, SEE DETAIL 1.4 SHEET GP-2 FOR TYPICAL CONNECTIONS.
- (N7) CONNECT DRAIN PIPE TO CENTRIFUGE DRAIN PER MANUFACTURER RECOMMENDATIONS.
- (N8) CONNECT 4" DRYER SYSTEM DRAIN TO 6" DRAIN PIPE.
- (N9) 1-1/2" BLOWER DRAIN PIPE TO BE ROUTED TO FLOOR DRAIN WITH AIR GAP.
- (N10) ATTACH 1/2" HOSE TO OIL WATER SEPARATOR PER MANUFACTURER RECOMMENDATIONS. ROUTE TO EXISTING FLOOR DRAIN.
- (N11) 3/4" CPVC DRAIN FROM COOLING CONVEYOR TO CONDENSER DRAIN TEE.
- (N12) DRAINAGE PIPE UNDER FOOTING AT I.E. 1094.73. SLEEVE PIPE PER DETAIL 1.4 SHEET GS-3.
- (N13) DRAINAGE PIPE UNDER FOOTING AT I.E. 1094.2. SLEEVE PIPE PER DETAIL 1.4 SHEET GS-3.
- (N14) DO NOT SAWCUT WITHIN 7.5 FEET LEFT AND RIGHT OF CENTRAL SUPPORT COLUMN FOR STRUCTURAL SAFETY.
- (N15) FOR CONTINUATION SEE SHEET C-2.

SOLIDS HANDLING DRAIN PIPING PLAN



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DESIGNED BY:	RJS
ENTERED BY:	DAS

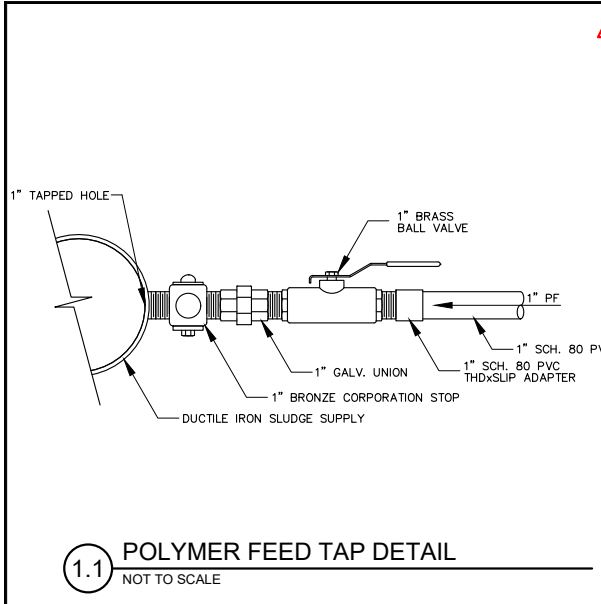
CITY OF SELAH
PHASE 2 - WASTEWATER TREATMENT
PLANT IMPROVEMENTS

SOLIDS HANDLING DRAIN PIPING PLAN

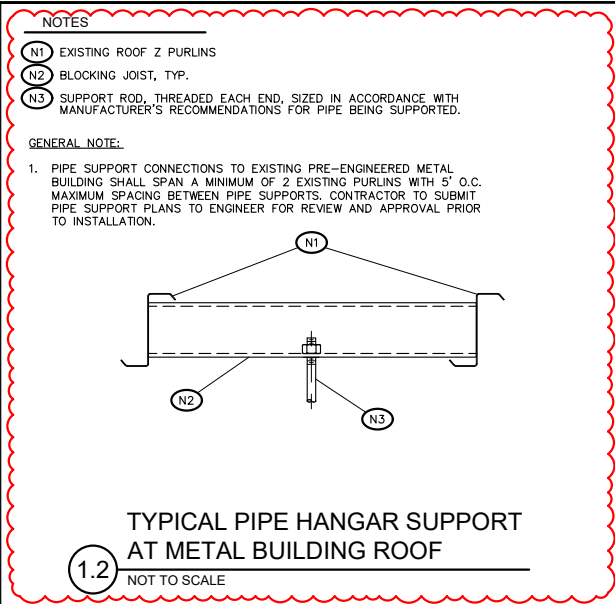
M9-4

SHEET

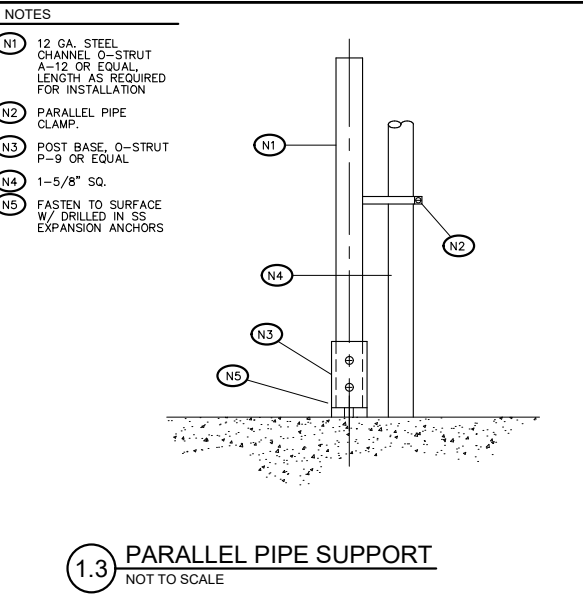
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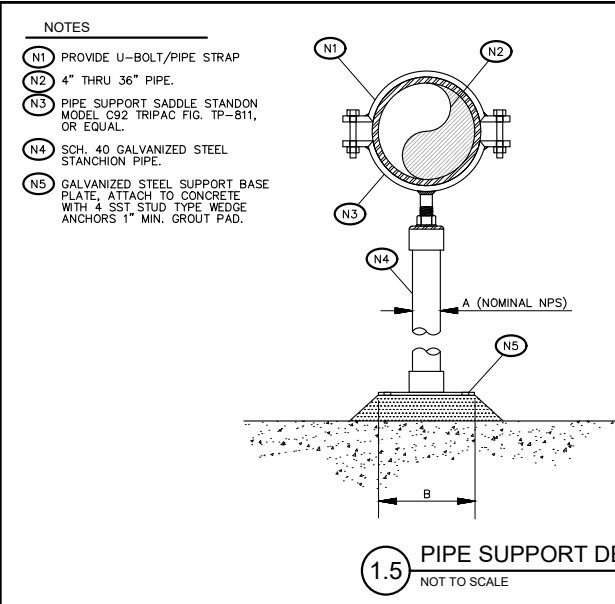
1.1 POLYMER FEED TAP DETAIL
NOT TO SCALE



1.2 TYPICAL PIPE HANGER SUPPORT AT METAL BUILDING ROOF
NOT TO SCALE

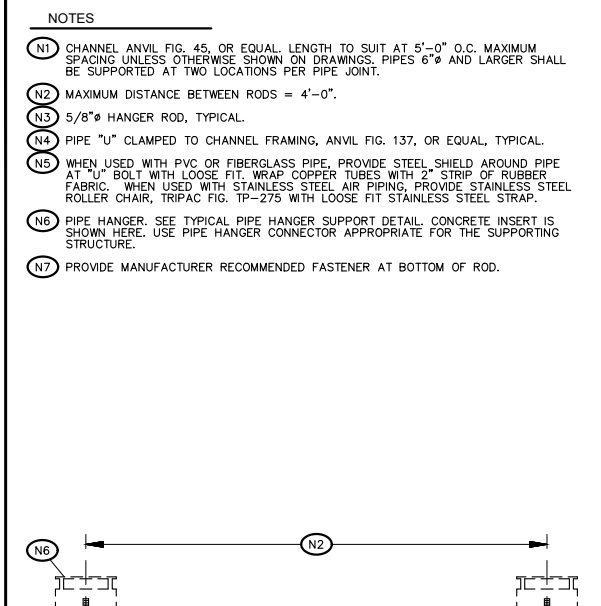


1.3 PARALLEL PIPE SUPPORT
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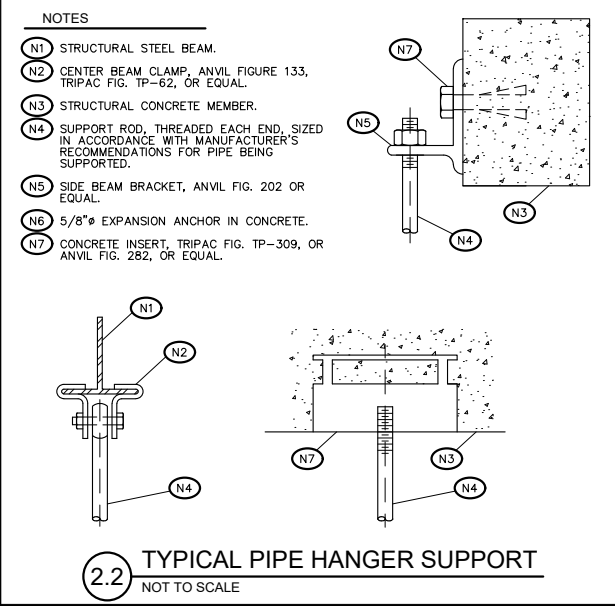


1.5 PIPE SUPPORT DETAIL - TYPE 1
NOT TO SCALE

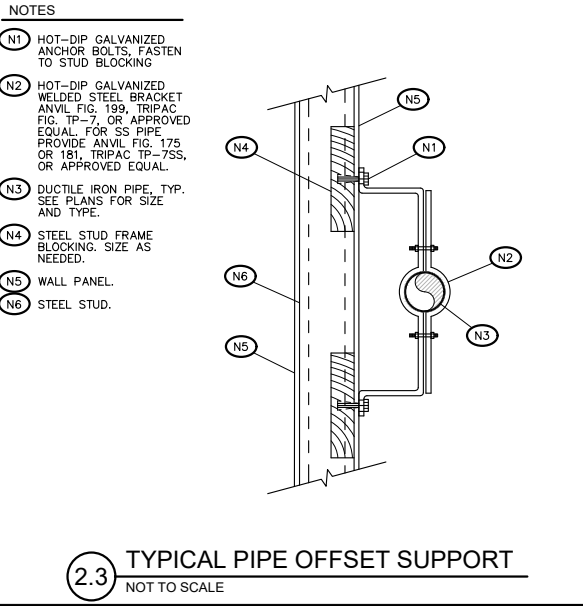
DIMENSION TABLE		
PIPE SIZE	A	B
4"	3"	9"
5"	3"	9"
6"	3"	9"
8"	3"	9"
10"	3"	9"
12"	3"	9"
14"	4"	11"
16"	4"	11"
18"	4"	11"
20"	6"	13-1/2"
24"	6"	13-1/2"
26"	6"	13-1/2"
30"	6"	13-1/2"
32"	6"	13-1/2"
36"	8"	16"



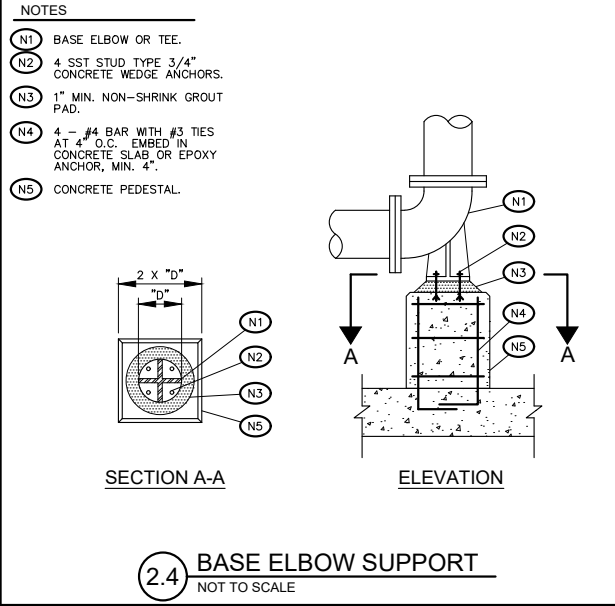
3.1 TRAPEZE PIPE HANGER
NOT TO SCALE



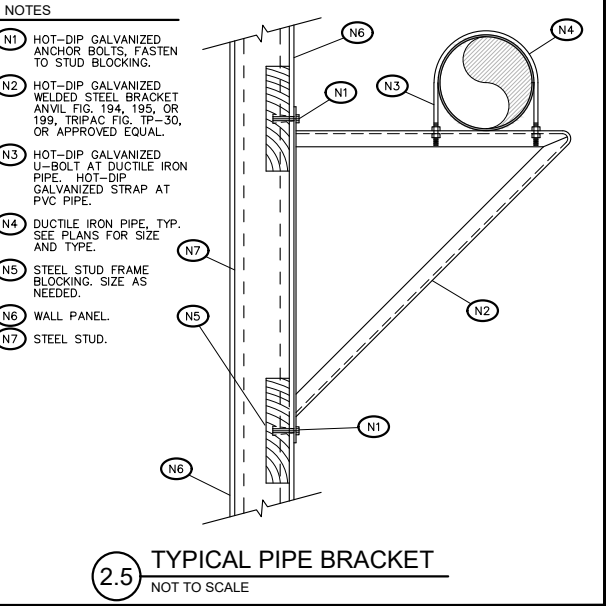
2.2 TYPICAL PIPE HANGER SUPPORT
NOT TO SCALE



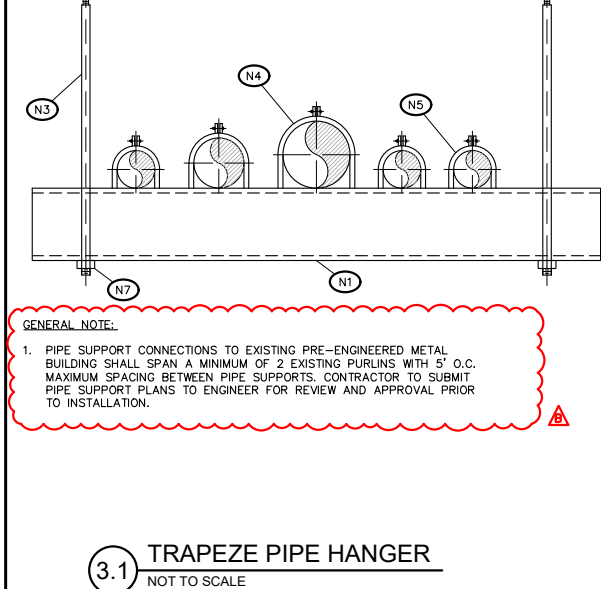
2.3 TYPICAL PIPE OFFSET SUPPORT
NOT TO SCALE



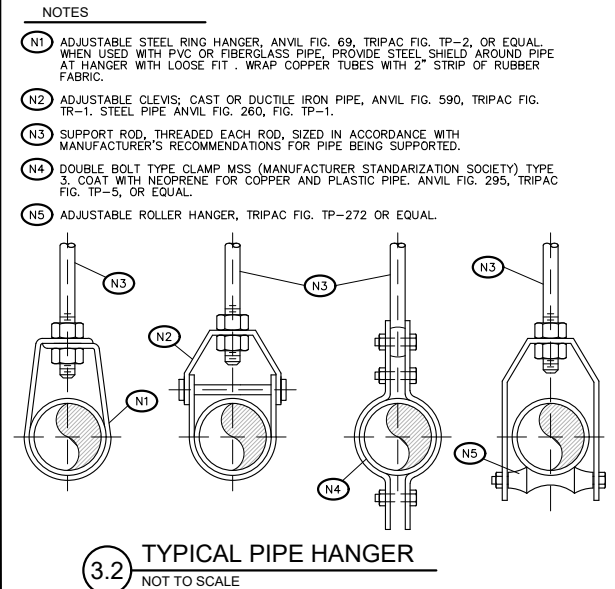
2.4 BASE ELBOW SUPPORT
NOT TO SCALE



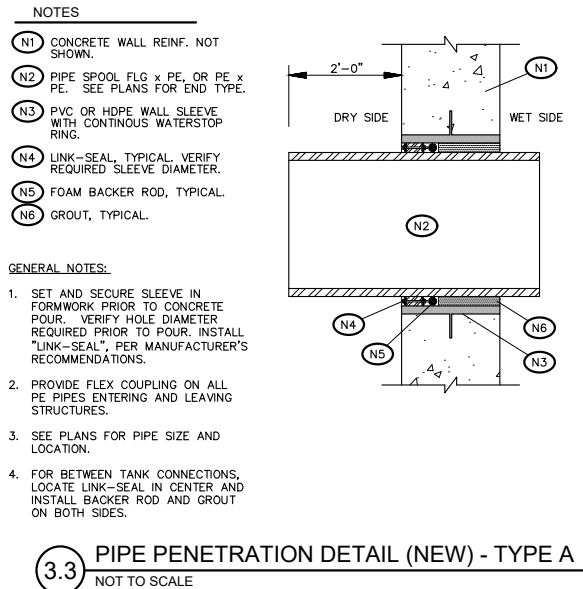
2.5 TYPICAL PIPE BRACKET
NOT TO SCALE



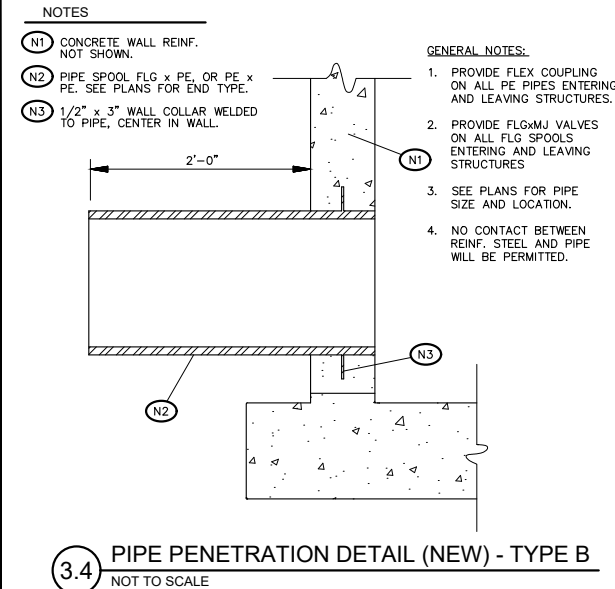
3.2 TYPICAL PIPE HANGER
NOT TO SCALE



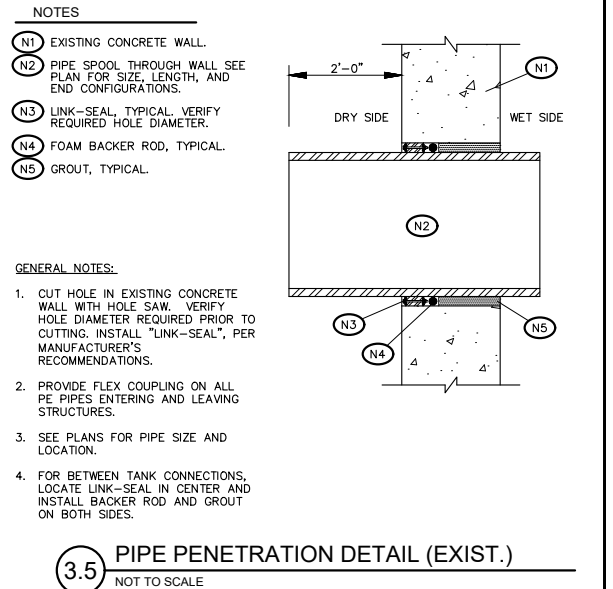
3.3 PIPE PENETRATION DETAIL (NEW) - TYPE A
NOT TO SCALE



3.4 PIPE PENETRATION DETAIL (NEW) - TYPE B
NOT TO SCALE



3.5 PIPE PENETRATION DETAIL (EXIST.)
NOT TO SCALE



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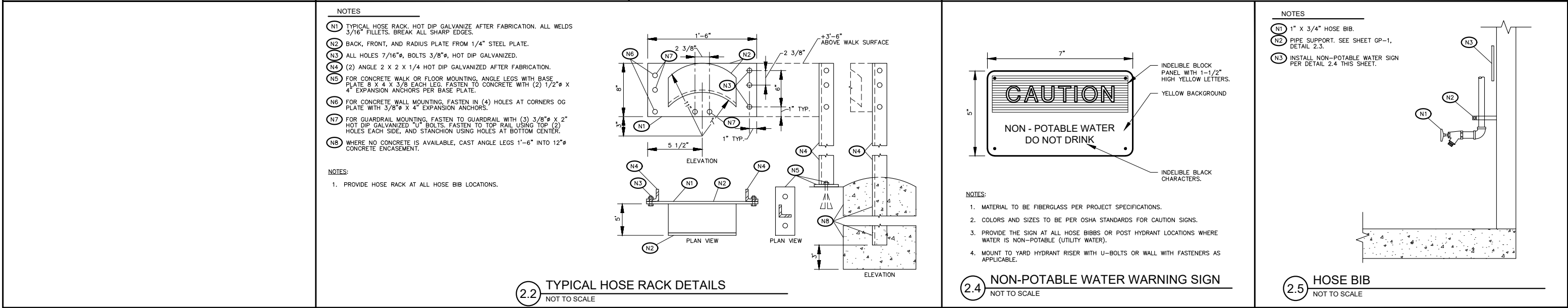
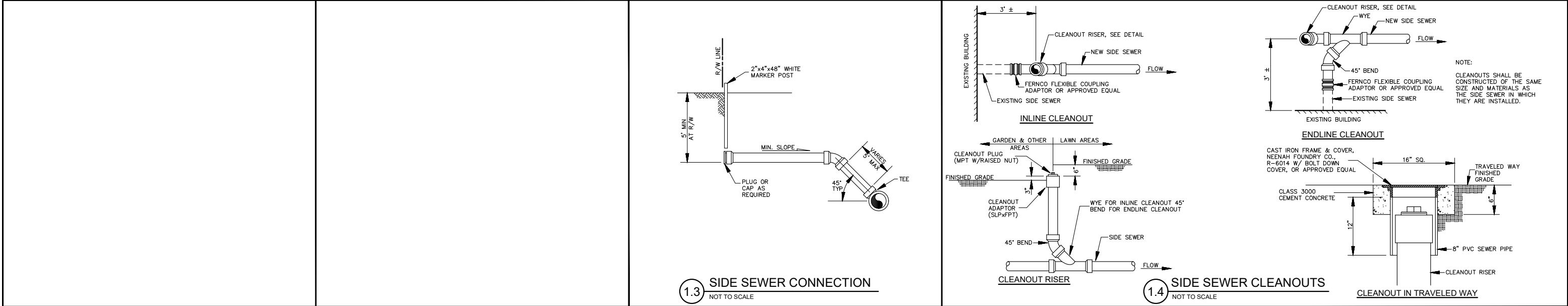
CITY OF SELAH
PHASE 2 - WASTEWATER TREATMENT
PLANT IMPROVEMENTS

PIPING DETAILS

GP-1

SHEET

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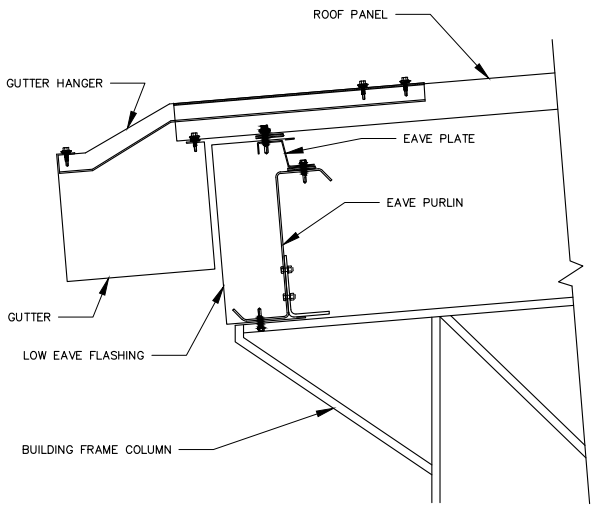


Door Schedule														
Door							Frame		Details					Remarks
Number	Width	Height	Type	Open'g	Matl	Finish	Matl	Finish	Type	Details Jamb		Head	Thresh	
D-01	10'-0"	12'-0"	B	RU	HM	PT	HM	PT	-	2.2/GA-1 (11-3/4")	2.2/GA-1 (11-3/4")	3.4/GA-1 (11-3/4")	-	
D-02	3'-0"	7'-0"	A	S	HM	PT	HM	PT	1	2.1/GA-1 (11-3/4")	2.1/GA-1 (11-3/4")	3.3/GA-1 (11-3/4")	-	
D-03	12'-0"	10'-0"	B	RU	HM	PT	HM	PT	-	2.2/GA-1 (11-3/4")	2.2/GA-1 (11-3/4")	3.4/GA-1 (11-3/4")	-	
D-04	8'-0"	10'-0"	B	RU	HM	PT	HM	PT	-	2.2/GA-1 (11-3/4")	2.2/GA-1 (11-3/4")	3.4/GA-1 (11-3/4")	-	
D-05	3'-0"	7'-0"	A	S	HM	PT	HM	PT	1	2.1/GA-1 (11-3/4")	2.1/GA-1 (11-3/4")	3.3/GA-1 (11-3/4")	-	

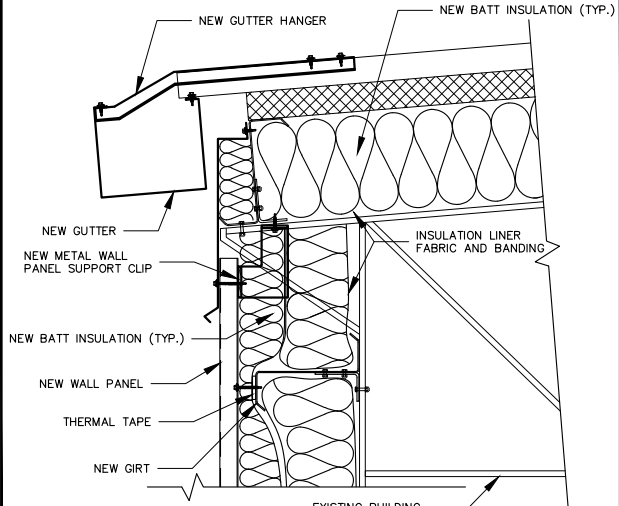
Legend: FF - Factory Finish
HM - Hollow Metal
ISG - Insulated Safety Glass
OH - Overhead
PT - Paint
RU - Roll-up
S - Single
SG - Safety Glass
STL - Steel

NOTE: SCHEDULES ARE PROVIDED FOR THE CONVENIENCE OF THE CONTRACTOR. IT IS THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE FROM THE PLANS, SECTIONS, ISOMETRICS, DETAILS, AND SPECIFICATIONS, THE REQUIRED QUANTITY AND QUALITY OF EQUIPMENT AND MATERIALS TO COMPLETE THE PROJECT.

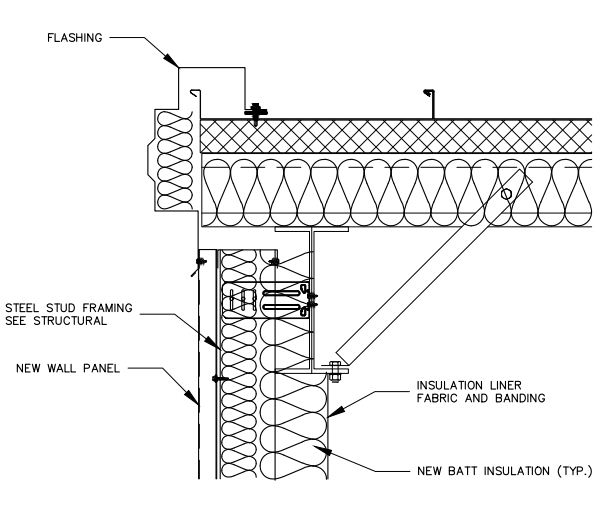
1.1 DOOR AND FRAME SCHEDULE
NOT TO SCALE



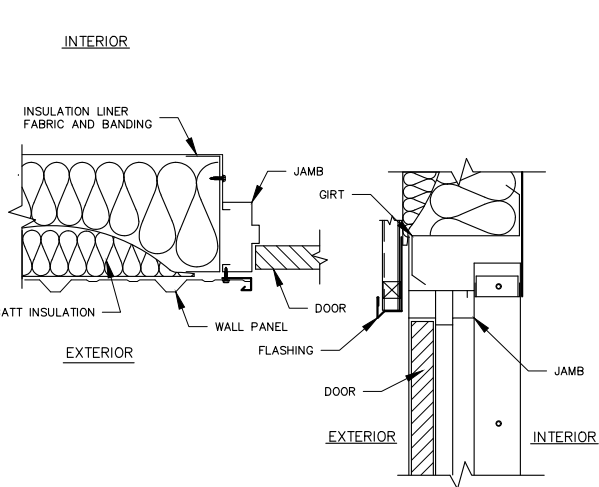
1.2 GUTTER LOW EAVE PURLIN W/O WALL (NEW)
NOT TO SCALE



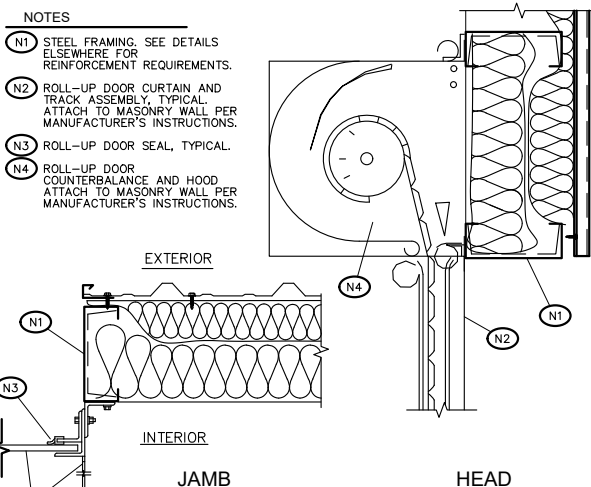
1.3 GUTTER LOW EAVE PURLIN W/ WALL (EXIST.)
NOT TO SCALE



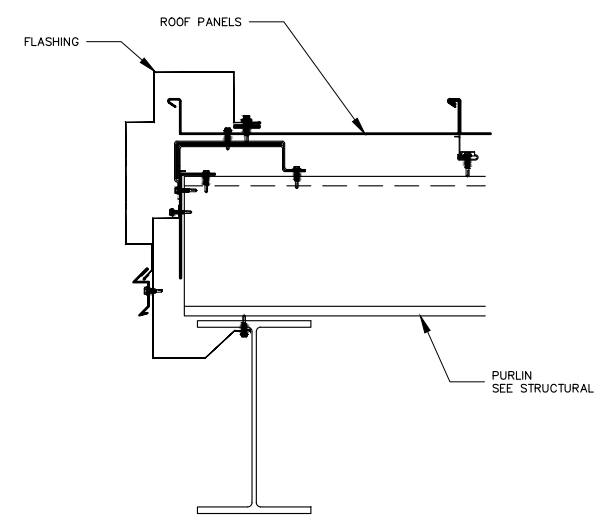
1.4 GABLE END STUD WALL (EXISTING ROOF)
NOT TO SCALE



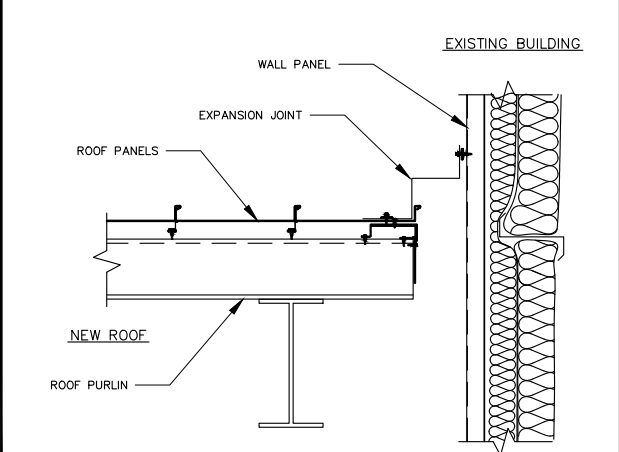
2.1 HOLLOW METAL DOOR HEAD & JAMB (PEMB)
NOT TO SCALE



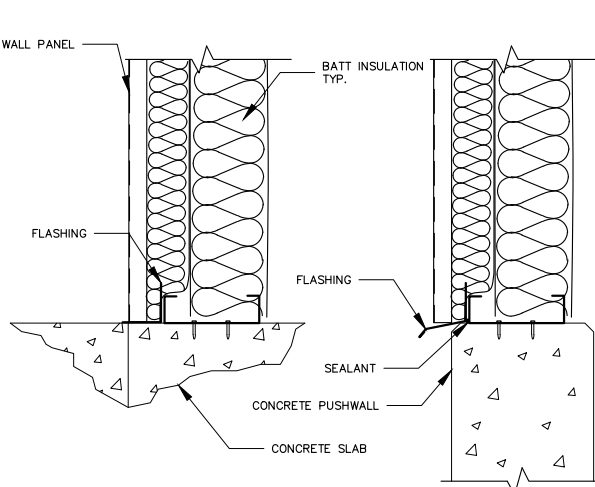
2.2 ROLL-UP DOOR HEAD & JAMB, PEMB WALLS
NOT TO SCALE



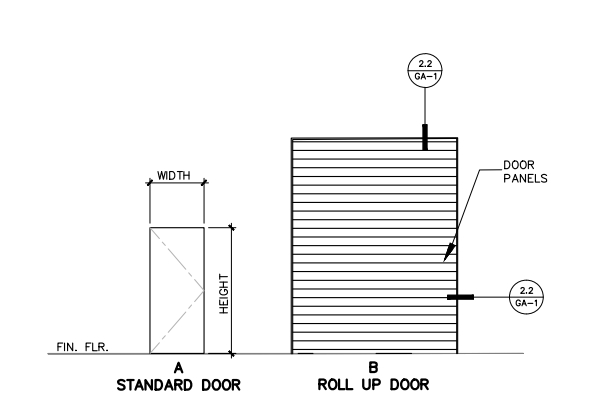
2.3 GABLE END (NEW ROOF)
NOT TO SCALE



2.4 EXPANSION JOINT AT ROOF TO WALL
NOT TO SCALE

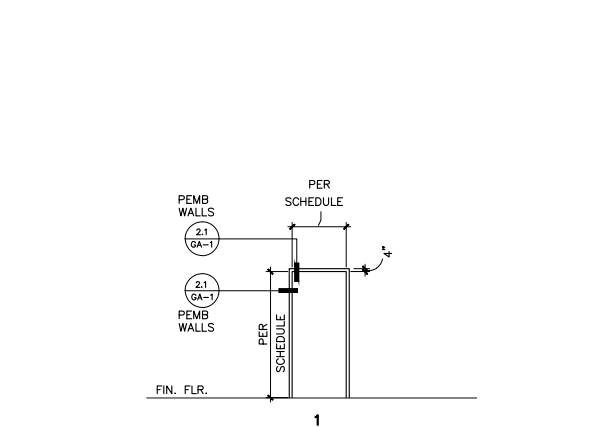


2.5 WALL TO SLAB AND PUSHWALL
NOT TO SCALE

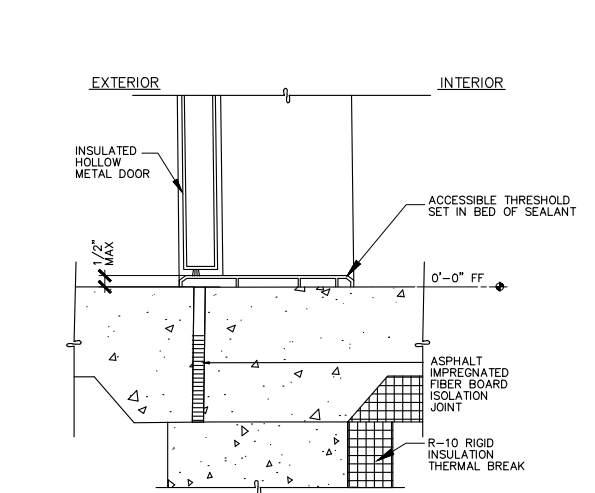


GENERAL NOTES:
• ALL OUTSIDE EXTERIOR GLAZING BELOW 8'-0" TO BE INSULATED LAMINATED SAFETY GLASS.
• PROVIDE 3/8" TEMPERED SAFETY GLASS PER IBC SECTION 2406 SAFETY GLAZING AND AS INDICATED.
• ALL WINDOWS TO HAVE: .37 U-FACTOR .40 SHGC FACTOR.

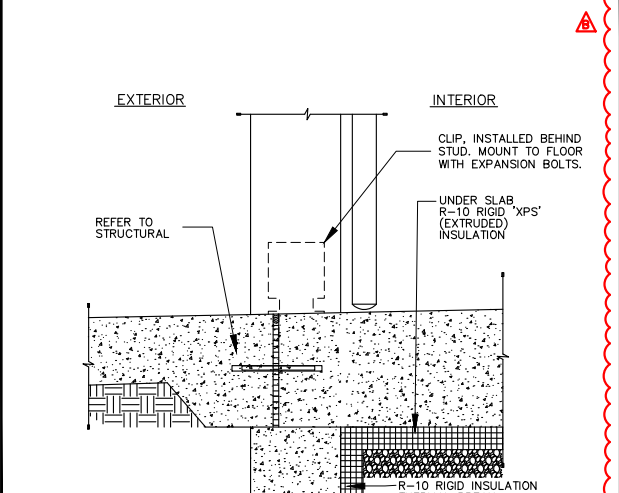
3.1 DOOR TYPES
NOT TO SCALE



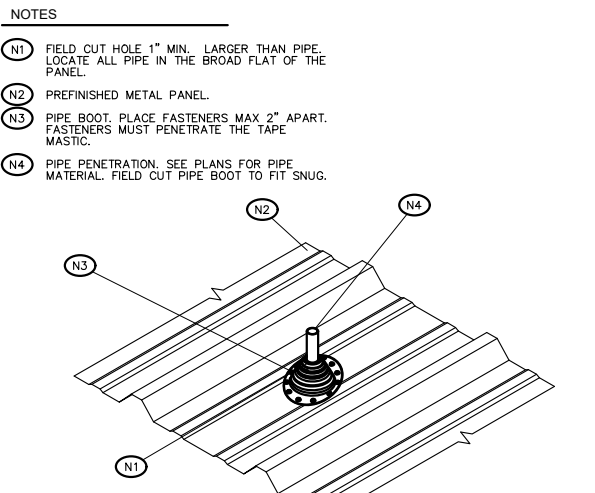
3.2 FRAME TYPES
NOT TO SCALE



3.3 HOLLOW METAL DOOR SILL (PEMB)
NOT TO SCALE



3.4 ROLL-UP DOOR SILL
NOT TO SCALE



3.5 TYPICAL METAL PANEL PENETRATION
NOT TO SCALE



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ADDENDUM NO. 1	07/17/26
ADDENDUM NO. 2	07/23/26
REVISION	DATE

JOB NUMBER:	23166
DATE:	07/07/26
FILE NAMES:	
DRAWING:	Sheets-Details-Phase 1.dwg
PLAN:	23166.dwg
DESIGNED BY:	RJS
ENTERED BY:	DAS

CITY OF SELAH
PHASE 2 - WASTEWATER TREATMENT
PLANT IMPROVEMENTS

ARCHITECTURAL DETAILS

GA-1

SHEET

35 OF 82

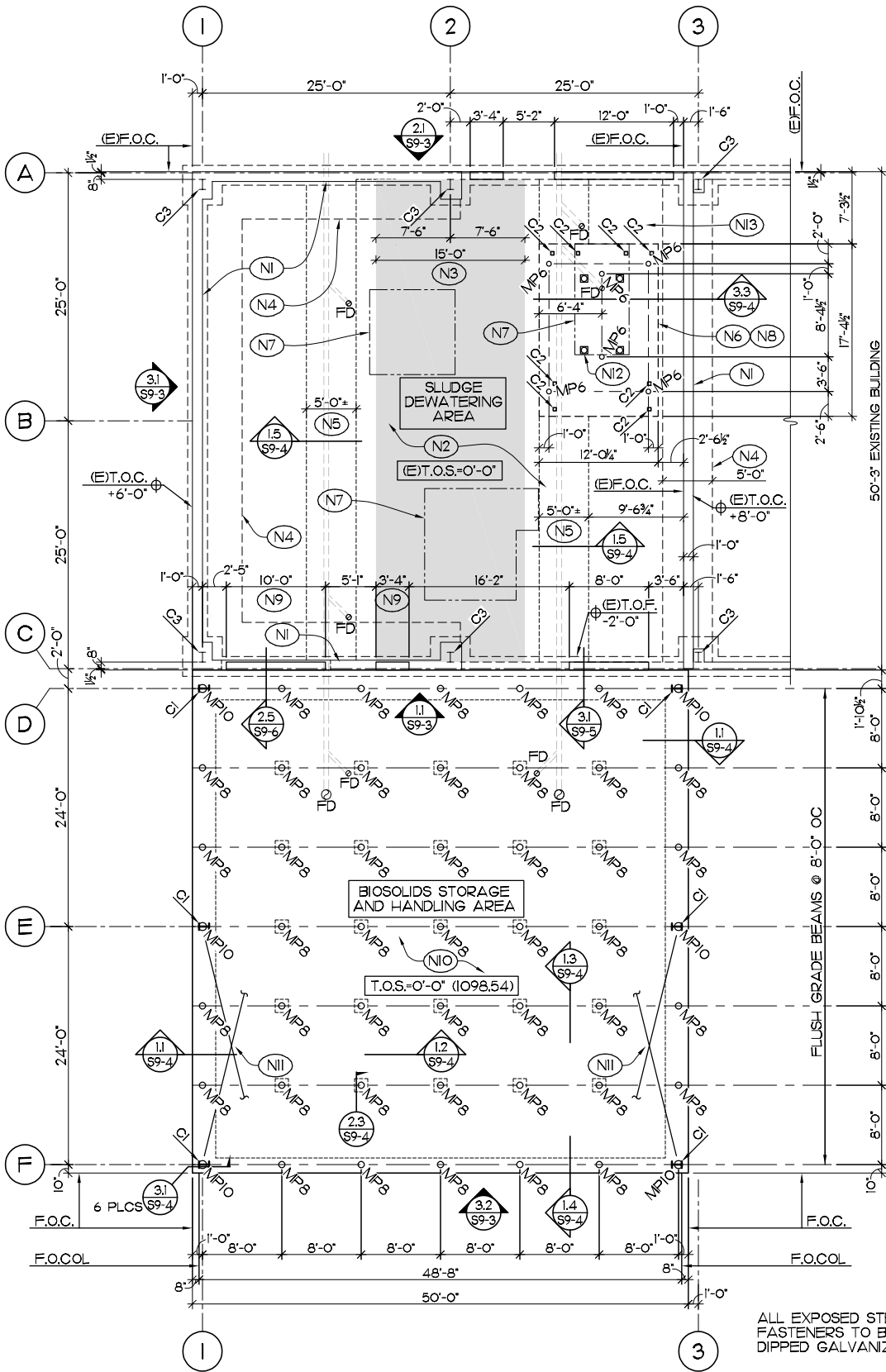
FLOOR/FOUNDATION PLAN NOTES

GENERAL

- 1. SEE GS-SERIES SHEETS FOR GENERAL STRUCTURAL NOTES, ABBREVIATIONS, LEGEND, & TYPICAL DETAILS.
- 2. COORDINATE & VERIFY ALL DIMENSIONS WITH ARCHL & PROCESS DRAWINGS.
- 3. ALL DIMENSION LINES ARE @ COLUMN, FACE OF STUD, OR FACE OF CONCRETE, UNO.
- 4. PROVIDE 3/4" CHAMFER AT ALL EXPOSED CONCRETE CORNERS.
- 5. SEE CIVIL DRAWINGS FOR EXTERIOR WALKS, CURBS, STAIRS, RAMPS, ETC.
- 6. REFER TO ALL CIVIL, ELECTRICAL & MECHANICAL PLANS FOR PROPER COORDINATION WITH ALL OTHER TRADES.
- 7. SEE GEOTECHNICAL EVALUATION REPORT FOR FOUNDATION BEARING REQUIREMENTS AND MICROPILE INFORMATION.
- 8. CONTACT ENGINEER IF EXISTING CONDITIONS DIFFER FROM THOSE SHOWN IN PLANS AND DETAILS.

PRE-ENGINEERED METAL BUILDINGS (PEMB)

- 9. UNLESS NOTED OTHERWISE, FOUNDATION DESIGN FOR THE METAL BUILDING IS BASED ON PRELIMINARY FRAME/COLUMN REACTIONS, AND PRELIMINARY BOLT LOCATIONS. THE METAL BUILDING MFR MUST SUBMIT ALL FINAL REACTIONS TO THE STRUCTURAL ENGINEER PRIOR TO SUBMISSION OF FOOTING REINFORCEMENT SHOP DRAWINGS FOR REVIEW AND POSSIBLE REVISIONS TO THE FOUNDATION DESIGN. ANCHOR BOLT QUANTITY, SIZE, AND PLACEMENT MUST BE COORDINATED WITH THE ANCHOR BOLT SETTING PLAN PROVIDED BY THE METAL BUILDING MFR.
- 10. REFER TO THE GENERAL STRUCTURAL NOTES FOR THE PROVISIONS REGARDING PRE-ENGINEERED METAL BUILDING (PEMB) AND FOUNDATIONS SUPPORTING THAT SYSTEM.
- 11. CONTRACTOR TO VERIFY ALL MBS DIMENSIONS W/ SUPPLIER PRIOR TO FOUNDATION CONSTRUCTION. REPORT ALL DISCREPANCIES TO THE STRUCTURAL ENGINEER.



- NOTES (FOR THIS PLAN)
- (NI) EXISTING 12" CONC PUSH WALL
 - (N2) EXISTING 8" CONC SLAB ON GRADE
 - (N3) EXISTING CONC SLAB TO REMAIN UNDISTURBED
 - (N4) EXISTING 12" THICKENED CONC SLAB @ EXISTING 12" CONC PUSH WALLS
 - (N5) DEMO EXISTING CONC SLAB @ NEW PIPING, PROVIDE TRENCH BOXES AS REQ'D TO AVOID UNDERMINING EXISTING SLAB
 - (N6) CENTRIFUGE PILE CAP, SEE DETAILS FOR REINFORCEMENT
 - (N7) HOUSEKEEPING PAD, SEE 2.2/GS-3
 - (N8) DEMO EXISTING CONC SLAB @ NEW CENTRIFUGE PILE CAP
 - (N9) DEMO EXISTING 12" CONC PUSH WALL AS REQ'D @ NEW OPENINGS
 - (N10) 18" PILE CAP/STRUCTURAL CONC SLAB ON GRADE (NO SLAB JOINTS), SEE DETAILS FOR REINFORCEMENT, OVER 12" TO 18" MIN FREE-DRAINING COMPACTED BASE COURSE OVER MIRAFI 600X GEOTEXTILE FABRIC, OVER COMPACTED SUBGRADE - SEE GEOTECHNICAL REPORT FOR MORE INFORMATION
 - (N11) ROD X-BRACING PER MBS
 - (N12) CENTRIFUGE COLUMN, 4 PLCS
 - (N13) SEE 3.1/S9-2 CENTRIFUGE ACCESS PLATFORM FRAMING PLAN FOR COLUMN LOCATIONS

COLUMN SCHEDULE

C1	FRAME COLUMN PER MBS
C2	HSS4x4x3/8
C3	EXISTING FRAME COLUMN

MICROPILE SCHEDULE

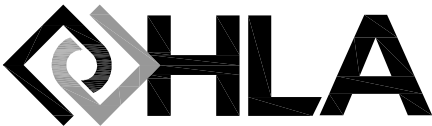
TAG	φ	MINIMUM ALLOWABLE CAPACITY	
		AXIAL(*)	LATERAL(**)
MP6	6"	31 KIPS	2 KIPS
MP8	8"	40 KIPS	3 KIPS
MPIO	10"	51 KIPS	7 KIPS

(*) MINIMUM UNFACTORED AXIAL LOAD BEARING CAPACITY WITH LESS THAN 1/2" VERTICAL DEFLECTION
(**) LATERAL CAPACITY AT LESS THAN 1/2" DEFLECTION

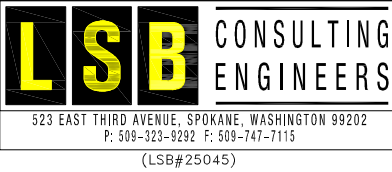
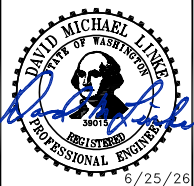


3.1 SOLIDS HANDLING BLDG FLOOR/FOUNDATION PLAN

1/8" = 1'-0"



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		JOB NUMBER: 23166	DATE: 06/25/26
		FILE NAMES:	
		DRAWING: PLAN:	
ADDENDUM #2	07/23/26	DESIGNED BY:	BTS
REVISION	DATE	ENTERED BY:	MAC

CITY OF SELAH
PHASE 2- WASTEWATER TREATMENT
PLANT IMPROVEMENTS

SOLIDS HANDLING BUILDING FLOOR/FOUNDATION PLAN

S9-1

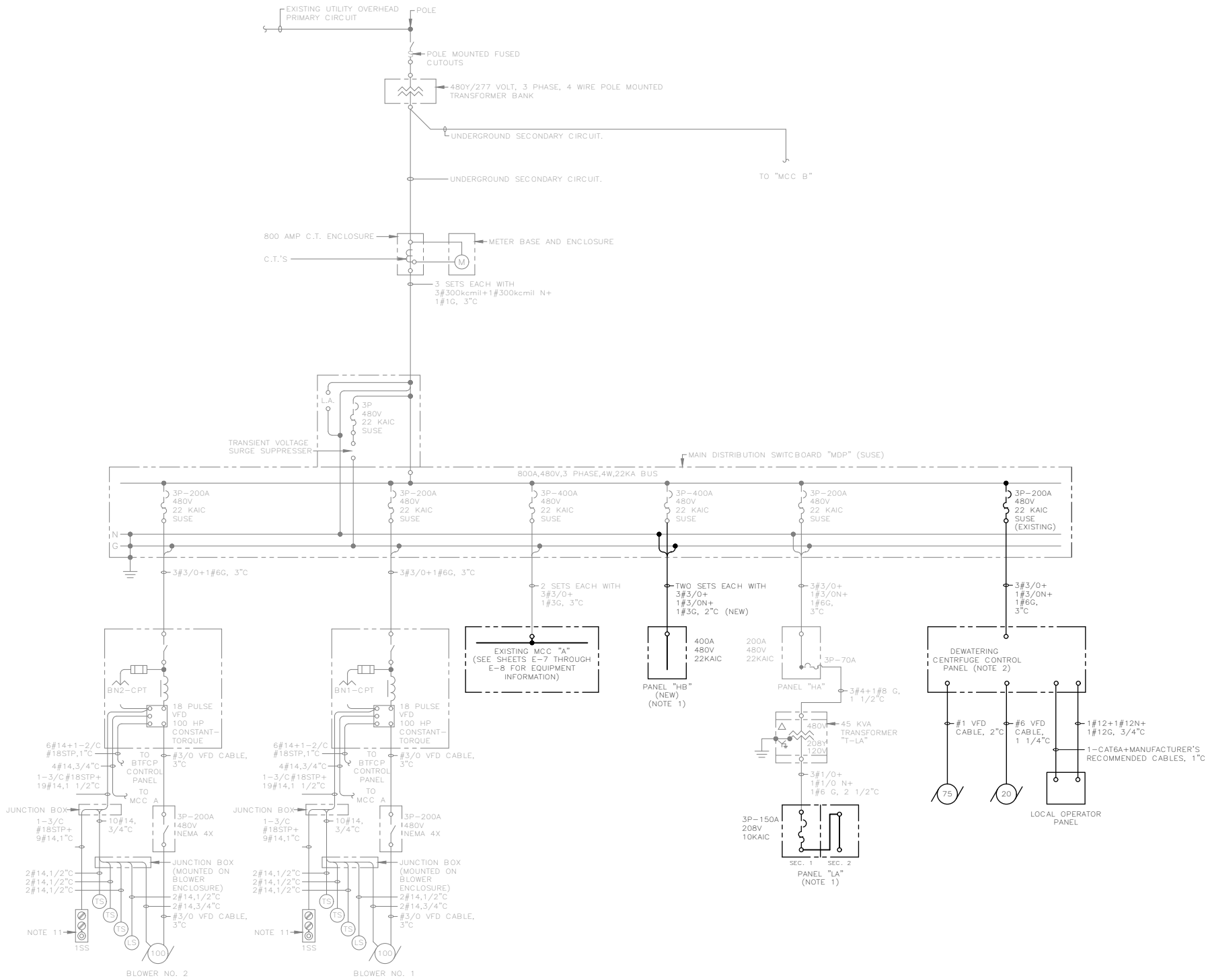
SHEET

41 OF 81

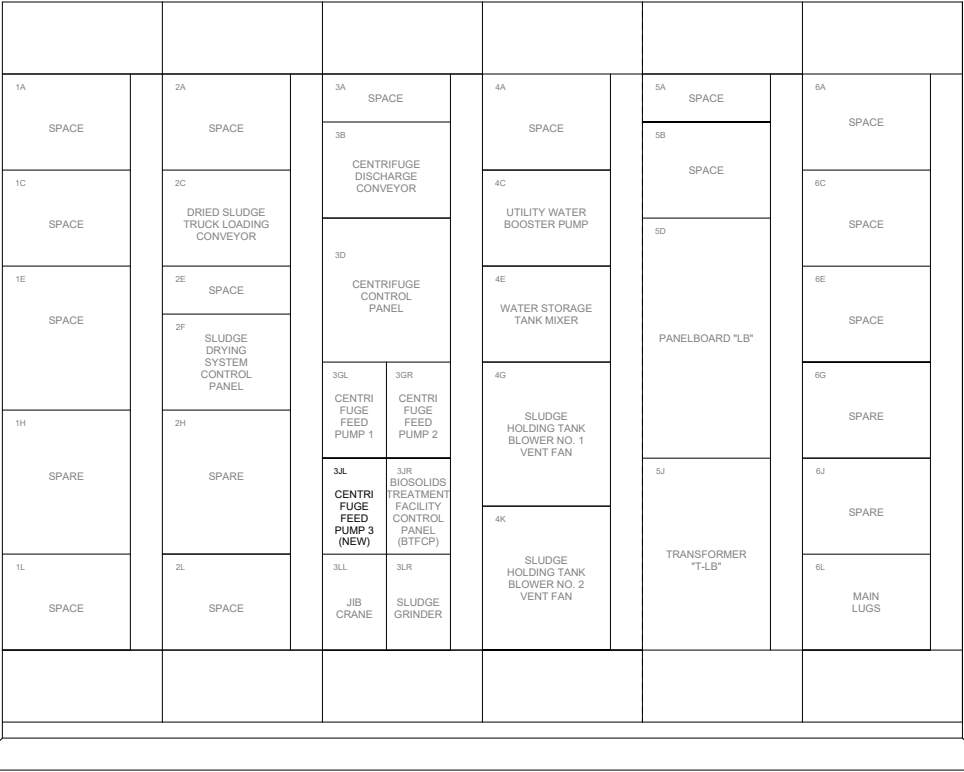
MODIFIED PANELBOARD CIRCUIT SCHEDULE PANEL LA										SECTION 1 OF 2	
CKT. #	LOAD DESCRIPTION	BREAKER TYPE	POLE #	POLE #	BREAKER TYPE	LOAD DESCRIPTION	CKT. #				
1	BIOSOLIDS TREATMENT ROOM GAS INFRARED HEATERS	1P-20A	1	2	1P-20A	BIOSOLIDS TREATMENT, EXTERIOR RECEPTACLES	2				
3	BIOSOLIDS TREATMENT ROOM GAS INFRARED HEATERS	1P-20A	3	4	1P-20A	BIOSOLIDS TREATMENT & STORAGE EXTERIOR RECEPTACLES	4				
5	BIOSOLIDS TREATMENT & STORAGE ROOMS GAS INFRARED HEATERS	1P-20A	5	6	1P-20A	BIOSOLIDS TREATMENT & STORAGE EXTERIOR RECEPTACLES	6				
7	RESTROOM VENTILATOR	1P-20A	7	8	1P-20A	OFFICE RECEPTACLES	8				
9	BIOSOLIDS TREATMENT ROOM LOUVERS L-3, L-4	1P-20A	9	10	1P-20A	OFFICE RECEPTACLES	10				
11	BIOSOLIDS TREATMENT ROOM LOUVERS L-1, L-2	1P-20A	11	12	1P-20A	ELEC. BIOSOLIDS TREATMENT, EXTERIOR RECEPTACLES	12				
13	BIOSOLIDS TREATMENT ROOM EXHAUST FAN EF-1	1P-20A	13	14	1P-20A	STORAGE, BIOS. TREATMENT, RESTROOM RECEPTACLES	14				
15	BIOSOLIDS TREATMENT ROOM EXHAUST FAN EF-2	1P-20A	15	16	1P-20A	STORAGE RECEPTACLES	16				
17	BIOSOLIDS TREATMENT ROOM EXHAUST FAN EF-3	1P-20A	17	18	1P-20A	STORAGE RECEPTACLES	18				
19	BIOSOLIDS TREATMENT ROOM EXHAUST FAN EF-4	1P-20A	19	20	1P-20A	TELECOMMUNICATIONS RECEPTACLES	20				
21	BIOSOLIDS TREATMENT ROOM EXHAUST FAN EF-5	1P-20A	21	22	1P-20A	TELECOMMUNICATIONS RECEPTACLES	22				
23	RELAY PANEL	1P-20A	23	24	1P-20A	BIOSOLIDS TREATMENT ROOM HVAC	24				
25	WALL HEATER	1P-20A	25	26	1P-20A	BIOSOLIDS TREATMENT ROOM SOUTH WEST DOOR OPERATOR	26				
27	RESTROOM WALL HEATER	1P-20A	27	28	1P-20A	STORAGE SOUTH DOOR OPERATOR	28				
29	AIR SCRUBBER	1P-20A	29	30	1P-20A	BIOSOLIDS TREATMENT ROOM NORTHWEST DOOR OPERATOR	30				
31	SPARE	1P-20A	31	32	1P-20A	STORAGE NORTH DOOR OPERATOR	32				
33	FAN COIL UNIT	2P-15A	33	34	1P-20A	REFRIGERATOR	34				
37	CONDENSING UNIT	2P-15A	35	36	1P-20A	BIOSOLIDS STORAGE RECEPTACLES	36				
			37	38	1P-20A	BIOSOLIDS STORAGE RECEPTACLES	38				
			39	40	1P-20A	SPARE	40				
41	SPARE	1P-20A	41	42	1P-20A	SPARE	42				

MODIFIED PANELBOARD CIRCUIT SCHEDULE PANEL LA										SECTION 2 OF 2	
CKT. #	LOAD DESCRIPTION	BREAKER TYPE	POLE #	POLE #	BREAKER TYPE	LOAD DESCRIPTION	CKT. #				
43	UPS-3100	2P-40A	1	2	1P-20A	PHOTO EYE	44				
47	ZERO LOSS CONDENSATE DRAIN	1P-20A	3	4	1P-20A	EXHAUST FAN EF-01	46				
			5	6	1P-20A	EXHAUST FAN EF-02	48				
49	POLYMER FEED #3 CONTROL PANEL	1P-20A	7	8	2P-20A	SPARE	50				
51	POLYMER FEED #4 CONTROL PANEL	1P-20A	9	10		SPARE	54				
53	FIRE ALARM CONTROL PANEL	1P-20A	11	12		SPARE	56				
55	SPARE	1P-20A	13	14	1P-20A	SPARE	58				
57	SPARE	1P-20A	15	16	1P-20A	SPARE	60				
59	UNIT HEATER UH-01	2P-20A	17	18	2P-25A	AC-01	64				
63	UNIT HEATER UH-02	2P-20A	19	20	2P-25A	AC-02	68				
67	UNIT HEATER UH-03	2P-20A	21	22	2P-20A	SPACE	70				
71	SPACE		23	24		SPACE	72				
73	SPACE		25	26		SPACE	74				
75	SPACE		27	28		SPACE	76				
77	SPACE		29	30		SPACE	78				
79	SPACE		31	32		SPACE	80				
81	SPACE		33	34		SPACE	82				
83	SPACE		35	36		SPACE	84				
			37	38		SPACE					
			39	40		SPACE					
			41	42		SPACE					

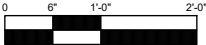
PANELBOARD CIRCUIT SCHEDULE PANEL HB										SECTION 1 OF 1	
CKT. #	LOAD DESCRIPTION	BREAKER TYPE	POLE #	POLE #	BREAKER TYPE	LOAD DESCRIPTION	CKT. #				
1	VFD CONTROL PANEL "VCP" (CP-3107)	3P-90A	1	2	3P-40A	THERMAL FLUID HEATER MOTOR PANEL "CP-3771"	2				
7	AIR COMPRESSOR "ACP" (CP-3130)	3P-20A	3	4	3P-20A	CONVEYER CONTROL PANEL	8				
			5	6							
			7	8							
13	SPARE	3P-90A	9	10	3P-40A	SPARE	14				
			11	12							
			13	14							
19	SPARE	3P-20A	15	16	3P-40A	SPARE	20				
			17	18							
			19	20							
25	SPACE		21	22	3P-20A	SPACE	26				
27	SPACE		23	24		SPACE	28				
29	SPACE		25	26		SPACE	30				
			27	28		SPACE					
			29	30		SPACE					



- NOTES:
- SEE PANELBOARD CIRCUIT SCHEDULES THIS SHEET FOR BRANCH CIRCUIT INFORMATION.
 - CENTRIFUGE CONTROL PANEL IS FURNISHED WITH VARIABLE FREQUENCY DRIVES INTEGRAL TO CONTROL PANEL. PROVIDE CIRCUITS FROM CONTROL TO DRIVES AND FROM CONTROL PANEL TO SERVING DISTRIBUTION SWITCHBOARD. VERIFY CIRCUIT INSTALLATION WITH MANUFACTURER'S SHOP DRAWINGS PRIOR TO CONDUIT AND CABLE INSTALLATION.



EXISTING/DEMOLITION ELEVATION
MOTOR CONTROL CENTER "MCC A"
SCALE: 1"=1'-0"



PANELBOARD
CIRCUIT SCHEDULE
PANEL LB
SECTION 1 OF 1

CKT. #	LOAD DESCRIPTION	BREAKER TYPE	POLE #	POLE #	BREAKER TYPE	LOAD DESCRIPTION	CKT. #
1	POLYMER FEED SYSTEM NO.1 CONTROL PANEL	1P-20A	1	2	1P-20A	UTILITY WATER FLOWMETER	2
3	POLYMER FEED SYSTEM NO.2 CONTROL PANEL	1P-20A	3	4	1P-20A	SPARE	4
5	HYPOCHLORITE FEED PUMP RECEPTACLE	1P-20A	5	6	1P-20A	SPARE	6
7	UTILITY WATER FILTER RECEPTACLE	1P-20A	7	8	1P-20A	SPARE	8
9	SPARE	1P-20A	9	10	1P-20A	SPARE	10
11	SPARE	1P-20A	11	12	1P-20A	SPARE	12

MODIFIED MCC SCHEDULE (NOTE1)										FIELD DEVICE INFORMATION						LOAD	
MCC UNIT INFORMATION										TYPE	OCF	RATED HP/AMPS	DISC	ENCL	CS	ACTUAL HP	
MCC A	SEC 1	UNIT A	HT. 12	SPACE													
		C	12	SPACE													
		E	18	SPACE													
		H	18	SPARE		BRKR	CB	100A									
		L	12	SPACE													
	2	A	12	SPACE													
		C	12	DRIED SLUDGE TRUCK LOADING CONVEYOR		FVNR	MCP	3 HP	30A	4X		1-3S, 2-PB		3 HP			
		E	6	SPACE													
		F	12	SLUDGE DRYING SYSTEM CONTROL PANEL		BRKR	CB	150A									
		H	18	SPARE		BRKR	CB	150A									
	3	L	12	SPACE													
		A	6	SPACE													
		B	12	CENTRIFUGE DISCHARGE CONVEYOR		FVNR	MCP	5 HP	30A	4X		1-3S, 2-PB		3 HP			
		D	18	CENTRIFUGE CONTROL PANEL		BRKR	CB	100A									
		GL	12	CENTRIFUGE FEED PUMP NO. 1		BRKR	CB	30A	30A	4X		1-POT, 1-2S, 1-3S		7.5 HP			
	4	JL	12	CENTRIFUGE FEED PUMP NO. 2		BRKR	CB	30A	30A	4X		1-POT, 1-2S, 1-3S		7.5 HP			
		GR	12	CENTRIFUGE FEED PUMP NO. 3 (NEW) (NOTES 2&3)		BRKR	CB	30A	30A	4X		1-POT, 1-2S, 1-3S		7.5 HP			
		JR		BIOSOLIDS TREATMENT FACILITY CONTROL PANEL (BTFCP)		BRKR	CB	15A									
		LL	12	JIB CRANE		BRKR	CB	20A	30A					2 HP			
		LR		SLUDGE GRINDER		BRKR	CB	20A									
	5	A	12	SPACE													
		C	12	UTILITY WATER BOOSTER PUMP		FVNR	MCP	10 HP	30A	4X		1-3S, 2-PB		10 HP			
		E	12	WATER STORAGE TANK MIXER		FVNR	MCP	1.5 HP	30A	4X		1-3S, 2-PB		1/2 HP			
		G	18	SLUDGE HOLDING TANK BLOWER NO. 1 VENTILATION FAN		FVNR	MCP	1/2 HP	30A	4X		1-3S, 2-PB		1/4 HP			
		J	18	SLUDGE HOLDING TANK BLOWER NO. 2 VENTILATION FAN		FVNR	MCP	1/2 HP	30A	4X		1-3S, 2-PB		1/4 HP			
	6	A	6	SPACE													
		B	12	SPACE													
		D	30	PANELBOARD "LB"		BRKR	CB	30A									
		H	24	TRANSFORMER "T-LB" & PRIMARY BREAKER		BRKR	CB	15A									
		A	12	SPACE													
	7	C	12	SPACE													
		E	12	SPACE													
		G	12	SPACE		FVNR	MCP	5HP									
		J	12	SPACE		FVNR	MCP	2 HP									
		L	12	MAIN LUGS		MLO		400A									

NOTES:

- NOTE THE FOLLOWING INFORMATION REGARDING THE MCC SCHEDULE:
BRKR: THERMAL MAGNETIC FEEDER CIRCUIT BREAKER
FVNR: FULL VOLTAGE NON-REVERSING STARTER
CPT: CONTROL POWER TRANSFORMER
MLO: MAIN LUGS ONLY
OCP: OVERCURRENT PROTECTOR
MCP: MOTOR CURRENT PROTECTOR - MAGNETIC ONLY CIRCUIT BREAKER
CB: CIRCUIT BREAKER (MOLDED CASE)
DISC: SAFETY DISCONNECT AMPERE RATING AND NUMBER OF AUXILIARY POLES
ENCL: NEMA ENCLOSURES TYPES FOR THE SAFETY DISCONNECT AND THE CONTROL STATION
CS: CONTROL STATION
#-2S: 2 POSITION SELECTOR SWITCH IN CONTROL STATION (QUANTITY NOTED BY #)
#-3S: 3 POSITION SELECTOR SWITCH IN CONTROL STATION (QUANTITY NOTED BY #)
#-POT: POTENTIOMETER IN CONTROL STATION (QUANTITY NOTED BY #)
#-PB: MOMENTARY PUSHBUTTON IN CONTROL STATION (QUANTITY NOTED BY #)
- CONNECT NEW CENTRIFUGE FEED PUMP NO. 3 TO EXISTING CIRCUIT BREAKER.
- SEE DETAIL 6/E-2 FOR CONTROL STATION INFORMATION .



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* SCALE NOTED ON DRAWINGS IS FOR FULL SIZE PRINT (22"x34").

JOB NUMBER:
23166

DATE:
07-07-26

FILE NAMES:
DRAWING: 23166E0-08

DESIGNED BY: CJD
ENTERED BY: BRB

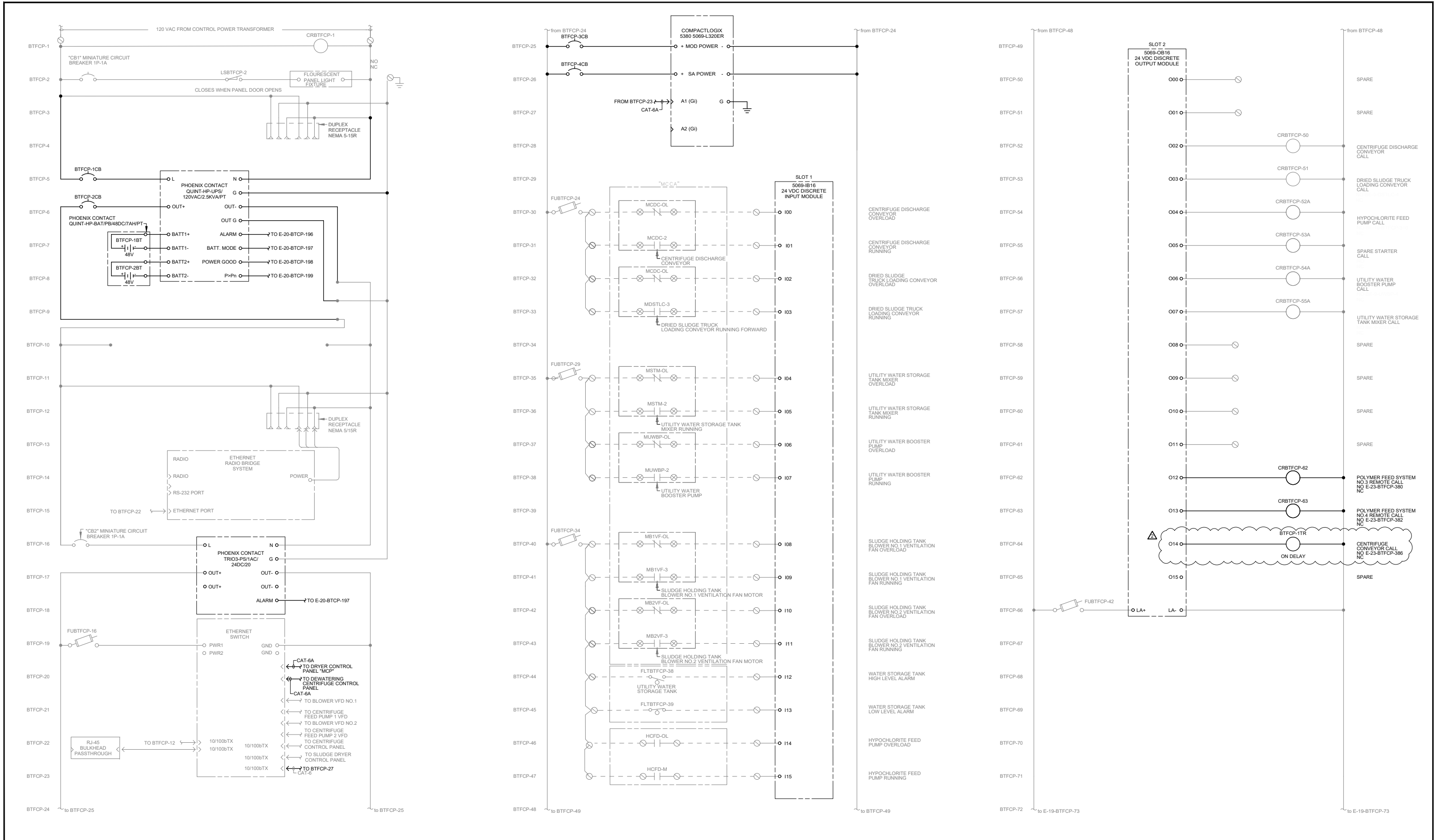
CITY OF SELAH
PHASE 2 - WASTEWATER TREATMENT
PLANT IMPROVEMENTS

MODIFIED MOTOR CONTROL CENTER "MCC A"

E-8

SHEET

56 OF 82



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		JOB NUMBER: 23166	DATE: 07-07-26
		FILE NAMES: DRAWING: 23166E0-18	
		DESIGNED BY: ENTERED BY:	CJD BRB
ADDENDUM NO.2	07/23/2026	DATE	
REVISION			

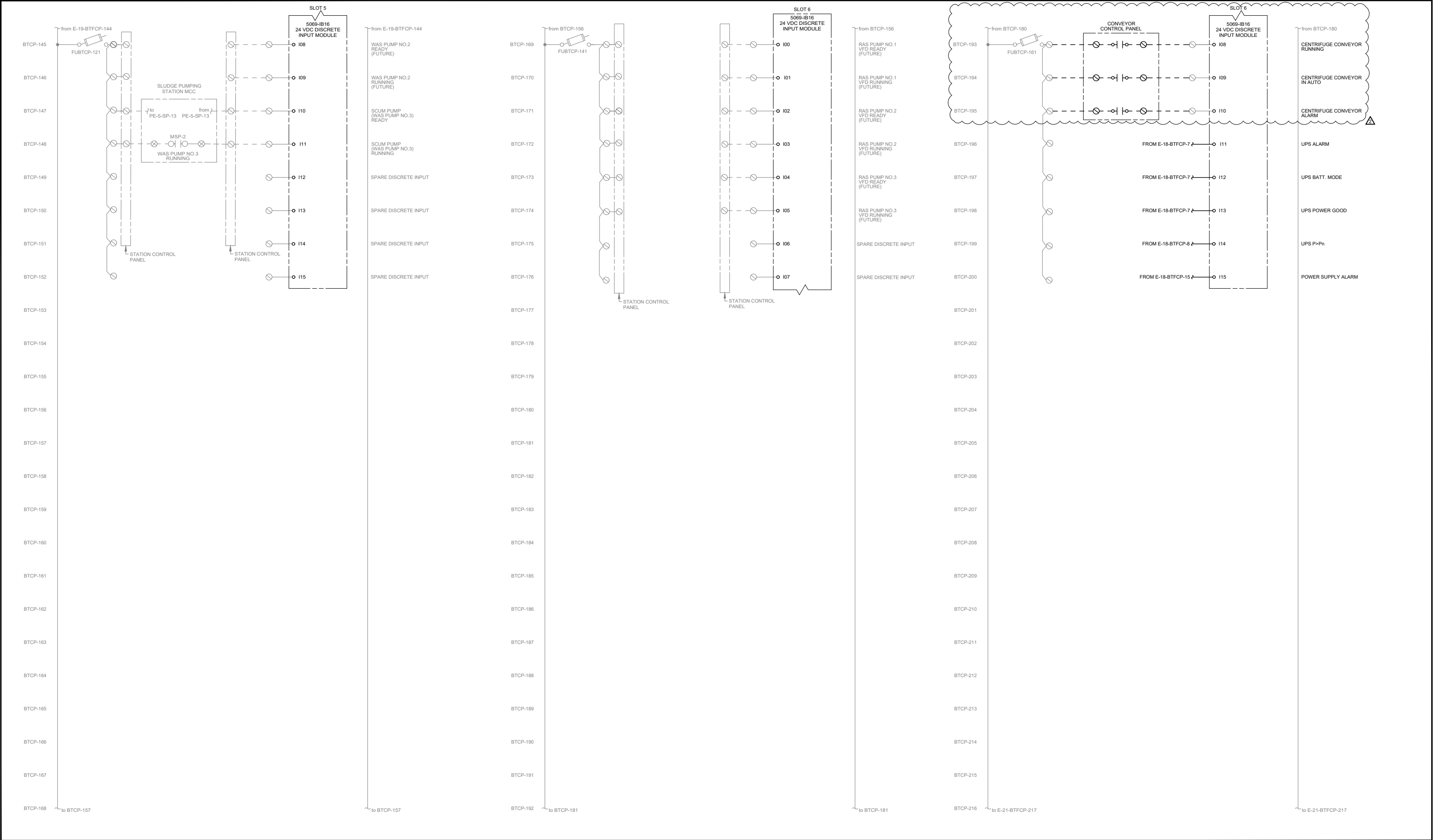
CITY OF SELAH
PHASE 2 - WASTEWATER TREATMENT
PLANT IMPROVEMENTS
MODIFIED EWD
BIOSOLIDS TREATMENT CONTROL PANEL

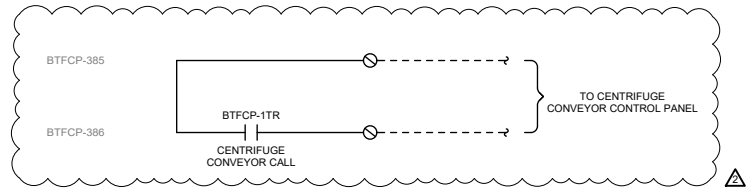
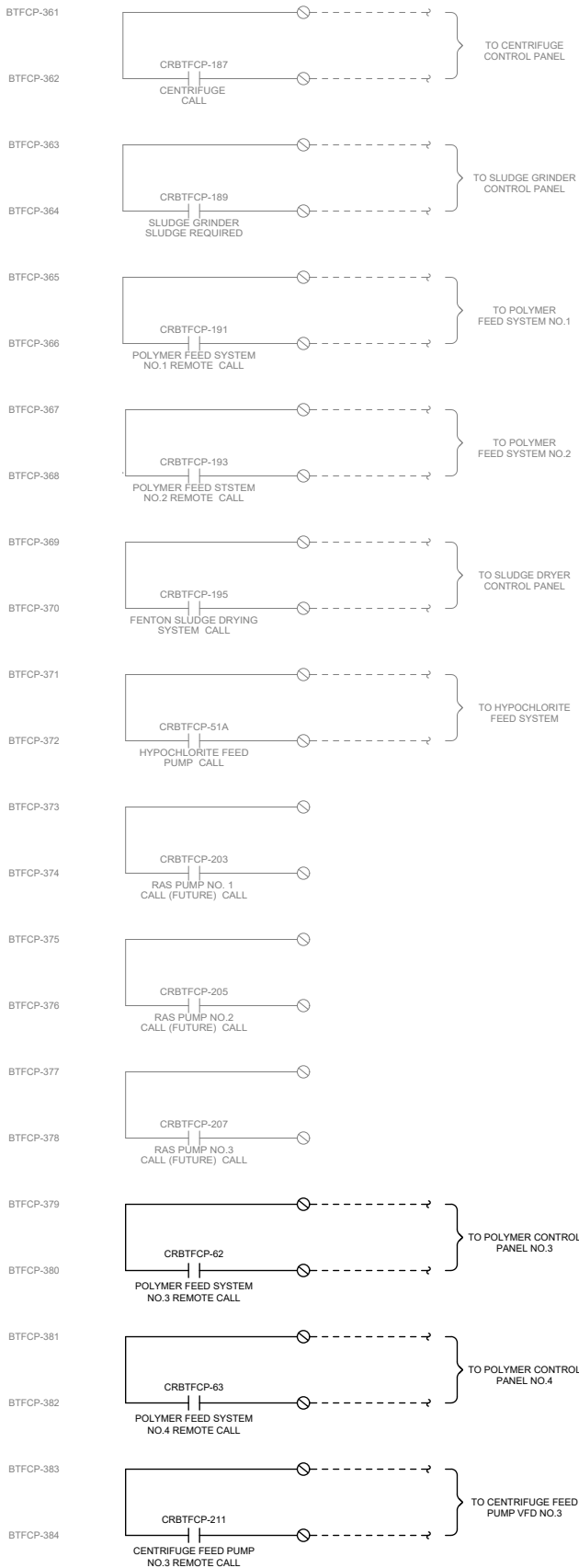
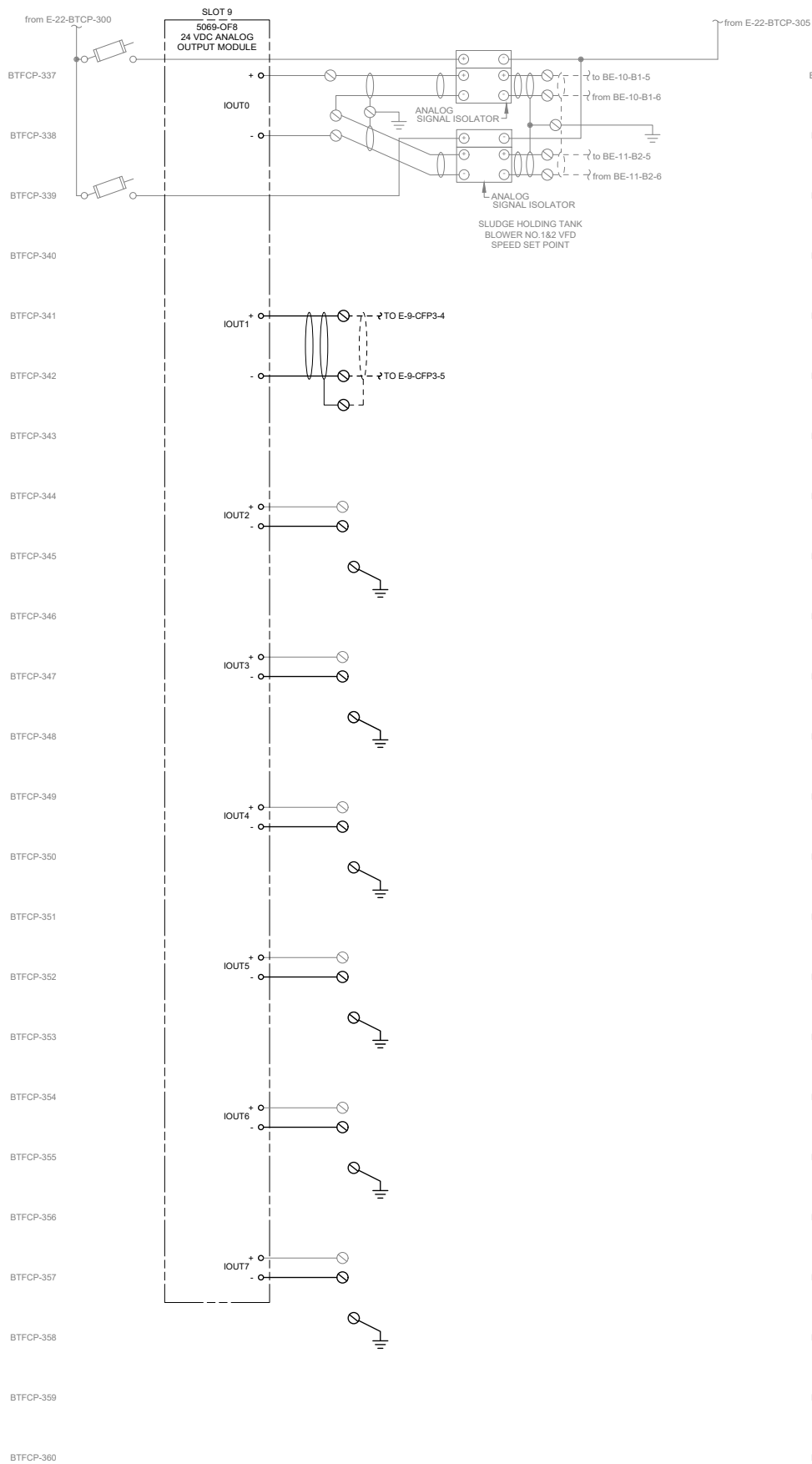
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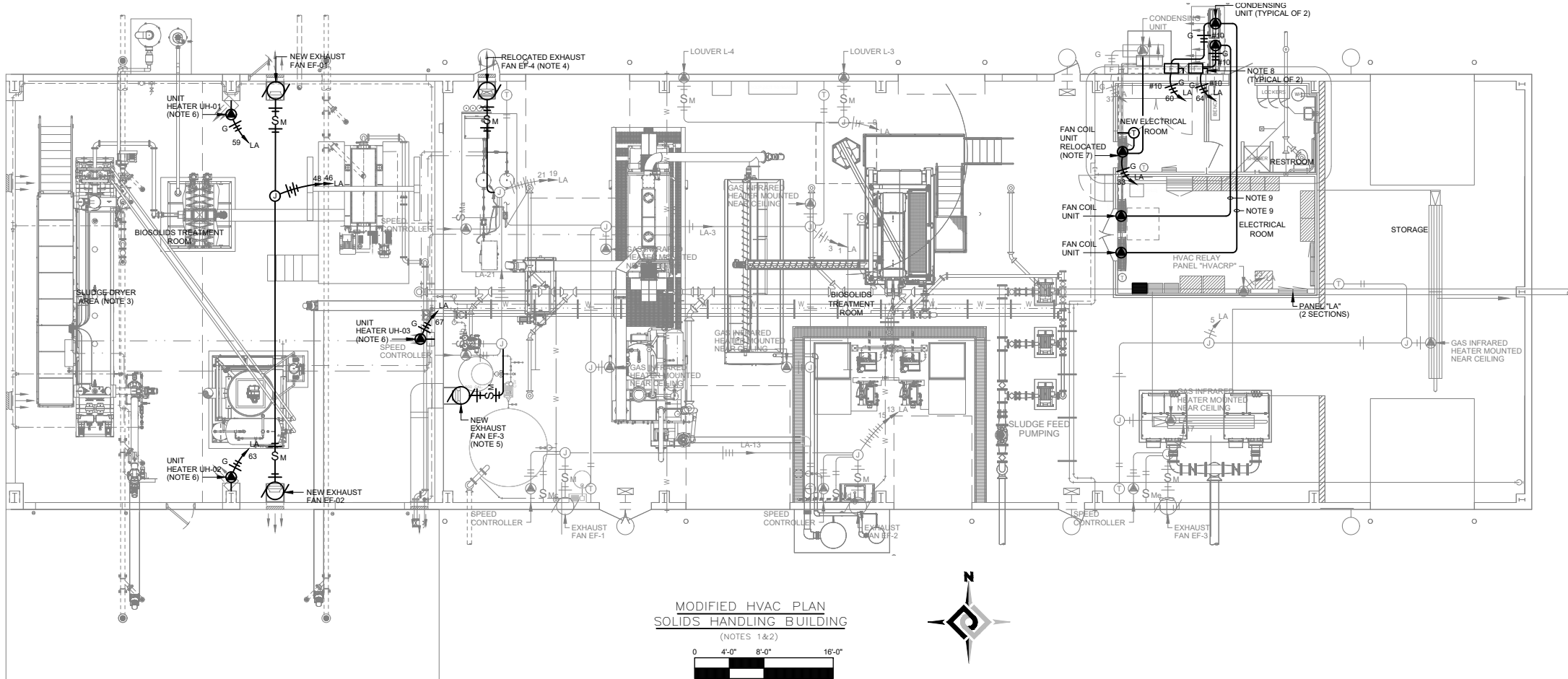
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		DATE	
ADDENDUM NO.2	07/23/2026		
REVISION	DATE		

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PHASE 2 - WASTEWATER TREATMENT
PLANT IMPROVEMENTS
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- GENERAL NOTES:
- A. PROVIDE ADDITIONAL STRUCTURAL SUPPORTS AS REQUIRED TO INSTALL DEVICES AND CONDUIT ON METAL FRAME BUILDING AS WELL AS TO ROUTE CONDUIT FROM EQUIPMENT LOCATIONS TO THE CEILING.
- NOTES:
- COORDINATE EXACT LOCATION OF HVAC EQUIPMENT WITH MECHANICAL SHOP DRAWINGS AND EQUIPMENT INSTALLER PRIOR TO DEVICE ROUGH IN.
 - EXISTING DEVICES SHOWN ARE TO REMAIN UNLESS OTHERWISE NOTED. PRESERVE AND PROTECT DURING THE COURSE OF CONSTRUCTION. EXISTING DEVICES AND CIRCUITS DAMAGED DURING CONSTRUCTION SHALL BE REPAIRED/REPLACED IMMEDIATELY AT NO ADDITIONAL COST TO THE OWNER.
 - WIRING METHODS, MATERIALS AND EQUIPMENT WITHIN 10 FEET OF SLUDGE DRYER SHALL BE IN ACCORDANCE WITH NATIONAL ELECTRICAL CODE FOR HAZARDOUS (CLASSIFIED) LOCATIONS. REFER TO THE HAZARDOUS AREA CLASSIFICATIONS LETTER IN THE SPECIFICATIONS APPENDIX FOR FURTHER INFORMATION.
 - EXISTING EXHAUST FAN TO BE RELOCATED. INTERCEPT AND EXTEND EXISTING CIRCUIT AND CONNECT TO FAN AT NEW LOCATION.
 - EXTEND EXISTING CIRCUIT AND CONNECT TO NEW EXHAUST FAN EF-3.
 - UNIT FURNISHED WITH INTEGRAL DISCONNECT.
 - EXISTING INTERIOR FAN COIL UNIT AND THERMOSTAT TO BE RELOCATED. INTERCEPT EXISTING CIRCUITS AND REROUTE TO EXISTING OUTDOOR UNIT AND THERMOSTAT. INTERCEPT AND CONNECT TO EXISTING HOMERUN CONDUIT.
 - PROVIDE 2P-30A, NEMA 3R, HEAVY DUTY FUSED DISCONNECT. SIZE FUSES PER HVAC EQUIPMENT MANUFACTURER'S RECOMMENDATIONS FOR ACTUAL HVAC EQUIPMENT PROVIDED ON SITE.
 - PROVIDE MANUFACTURER'S RECOMMENDED CONDUCTORS IN 3/4" MINIMUM CONDUIT FROM INDOOR TO OUTDOOR UNIT.



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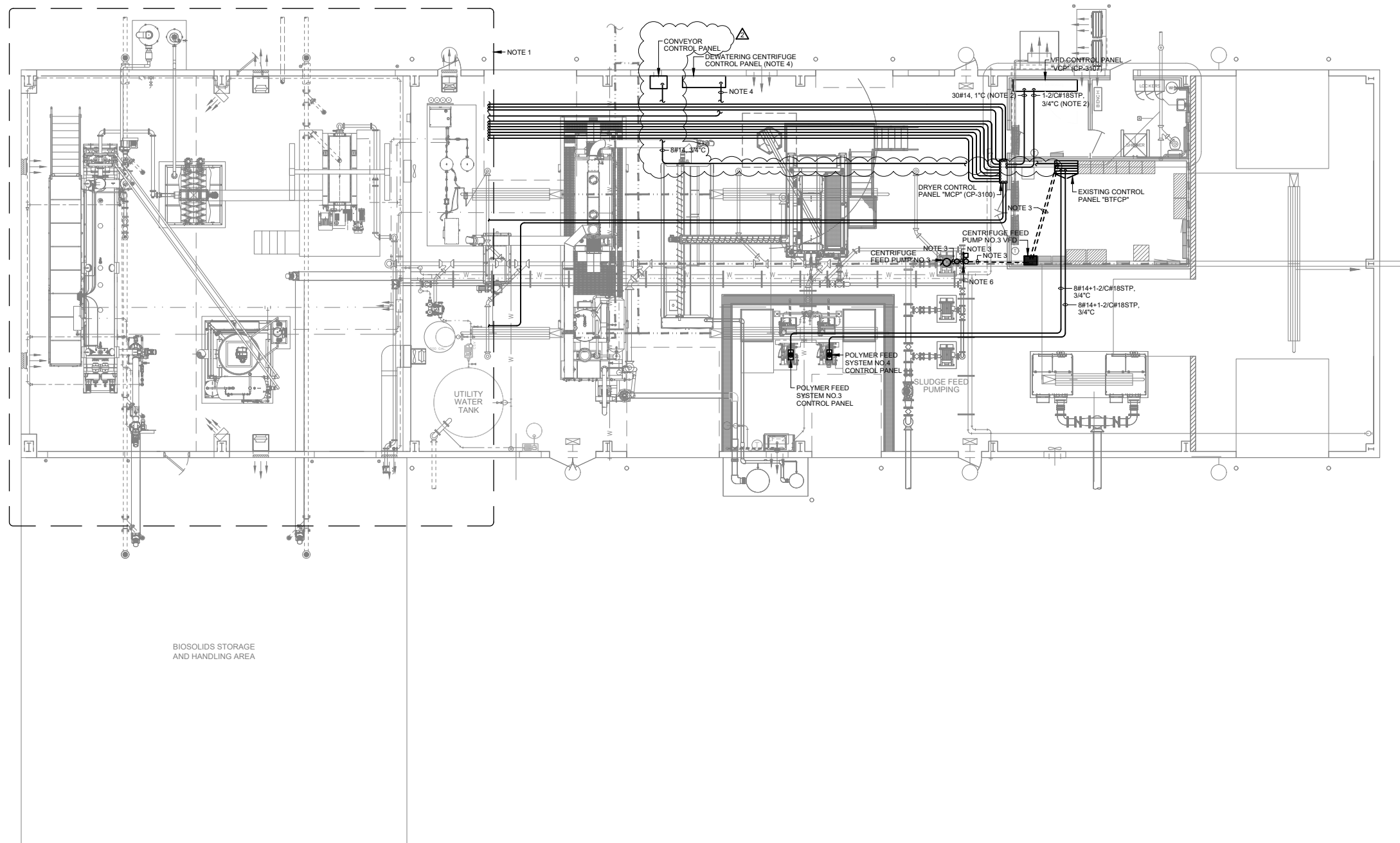
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		DESIGNED BY: CJD	ENTERED BY: BRB
REVISION	DATE		

CITY OF SELAH
PHASE 2 - WASTEWATER TREATMENT
PLANT IMPROVEMENTS
SOLIDS HANDLING
MODIFIED HVAC PLAN

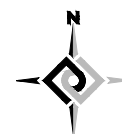
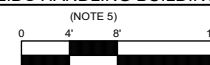
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SHEET

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MODIFIED PROCESS INSTRUMENTATION PLAN
SOLIDS HANDLING BUILDING



GENERAL NOTES:

- A. PROVIDE ADDITIONAL STRUCTURAL SUPPORTS AS REQUIRED TO INSTALL DEVICES AND CONDUIT ON METAL FRAME BUILDING AS WELL AS TO ROUTE CONDUIT FROM EQUIPMENT LOCATIONS TO THE CEILING.

NOTES:

1. SEE PARTIAL PROCESS INSTRUMENTATION PLAN SHEET E9-10 FOR FURTHER INFORMATION.
2. CIRCUITS ARE BASED UPON BASIS OF DESIGN BCR PROVIDED TIE-POINT SCHEDULE. DRYER MANUFACTURER SUBSTITUTIONS MAY REQUIRE REVISIONS. PROVIDE ELECTRICAL INSTALLATION THAT COORDINATES WITH ACTUAL DRYER SYSTEM PROVIDED.
3. SEE MOTOR CONTROL CENTER ONE LINE DIAGRAM SHEET E-7 FOR CIRCUIT AND EQUIPMENT INFORMATION.
4. SEE MODIFIED ONE LINE DIAGRAM SHEET E-4 FOR CIRCUIT AND EQUIPMENT INFORMATION.
5. EXISTING DEVICES AS SHOWN ON EXISTING PLANS ARE TO REMAIN UNLESS OTHERWISE NOTED. PRESERVE AND PROTECT DURING THE COURSE OF CONSTRUCTION. EXISTING DEVICES AND CIRCUITS DAMAGED DURING CONSTRUCTION SHALL BE REPAIRED/REPLACED IMMEDIATELY AT NO ADDITIONAL COST TO THE OWNER.
6. SEE DETAIL 4/E-2 FOR EQUIPMENT MOUNTING REQUIREMENTS ON BACKBOARD.



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PHASE 2 - WASTEWATER TREATMENT
PLANT IMPROVEMENTS
SOLIDS HANDLING
MODIFIED PROCESS INSTRUMENTATION PLAN

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