

**OCTOBER 23, 2013**

**ADDENDUM NO. 1**

**TO THE CONTRACT DOCUMENTS  
FOR THE CONSTRUCTION OF**

**CITY OF MASSILLON 2013 WWTP IMPROVEMENTS PROJECT  
CONTRACT NO. 2 - GENERAL CONSTRUCTION**

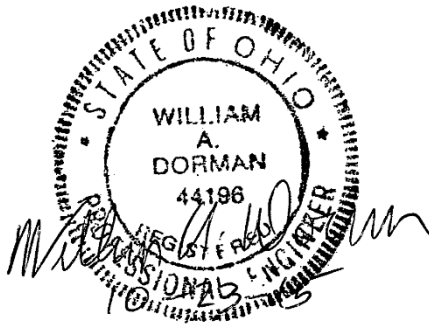
**MASSILLON, OHIO**

**TO ALL HOLDERS OF CONTRACT DOCUMENTS:**

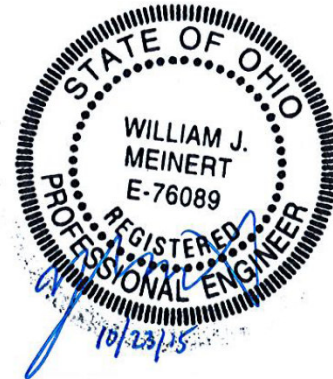
Your attention is directed to the following interpretations of, changes in, and additions to the Contract Documents for the City of Massillon 2013 WWTP Improvements Project, Contract No. 2. Sealed bids for the above referenced project will be received by the City of Massillon, Attn: Joel Smith, 151 Lincoln Way East, Massillon OH 44646 until **2:00 p.m., local time, November 6, 2015.**

This addendum is issued in accordance with Instructions to Bidders Article M, and is made part of the Contract Documents in accordance with Article 1 of the Agreement.

**CTI ENGINEERS, INC / O'BRIEN & GERE, A JOINT VENTURE**



WILLIAM A. DORMAN, P.E.  
JV PROJECT MANAGER



WILLIAM J. MEINERT, P.E.  
JV DEPUTY PROJECT MANAGER

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**A. IN THE DECLARATION OF MANUFACTURER SHEET**

1. DELETE the following:

“43 21 39.11 Submersible Non-Clog Centrifugal Pumps

Base Bid

- a. Flowserve
- b. ABS
- c. KSB”

and SUBSTITUTE THEREFOR the following:

“43 21 39.11 Submersible Non-Clog Centrifugal Pumps

Base Bid

- a. ABS
- b. Flowserve
- c. KSB”

**B. IN THE TECHNICAL SECTIONS**

1. In Section 03 30 00,
  - a. In article 2.3 DELETE paragraph C in its entirety and SUBSTITUTE THEREFOR the following:
 

“C. Crystalline waterproofing admixture shall be the following products and meet the following requirements:

    1. Products:
      - a. Penetron Admix – Minimum dosage rate 1% by weight of cementitious materials
      - b. Xypex Admix C-500 – Minimum dosage rate 2% by weight of cementitious materials
      - c. Kryton Krystol Internal Membrane: Minimum dosage rate 2% by weight of cementitious materials
      - d. Or approved equal with minimum dosage rate as recommended by the manufacturer.
    2. Permeability: Concrete treated with crystalline admixture shall resist a water pressure of 150 psi with no measurable leakage.”
2. In Section 22 05 29,
  - a. Under 1.4c, DELETE “Multiple pipe support, trapeze, and seismic restraint” AND SUBSTITUTE THEREFOR “multiple pipe support and trapeze”.
  - b. Under 1.5A, DELETE SUBPARAGRAPH 2.

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3. In Section 22 10 00,
  - a. Under 2.1B, DELETE SUBPARAGRAPH 1
  - b. Under 2.6A, ADD “(Solids Handling Building)”.
  - c. Under 2.6, ADD PARAGRAPH “B. Polyvinyl Chloride (PVC) Plastic Pipe, Type DWV, ASTM D2665. Fittings: PVC, Type DWV, ASTM D3311. Joints: Solvent cement in accordance with ASTM D2855. (Fine Screen Building)”.
  - d. Under 2.10 ADD PARAGRAPH “PVC, Schedule 80. Joints: solvent weld. Fittings: PVC, schedule 80, solvent weld ends. For plant water piping in the Screen Room.
  
4. In Section 23 05 29,
  - a. Under 1.4c, DELETE “Multiple pipe support, trapeze, and seismic restraint” AND SUBSTITUTE THEREFOR “multiple pipe support and trapeze”.
  
5. In Section 23 11 24,
  - a. Under 2.1C, SUBPARAGRAPH 2, DELETE “schedule 40S” AND SUBSTITUTE THEREFOR “schedule 10S”
  
6. In Section 40 05 23.07,
  - a. ADD paragraph 2.2.C.5 as follows:

“5. Schedule:

Provide valve assemblies of this type as indicated in the Contract Documents, including but not limited to the following:

<u>Tag No. or Location</u>	<u>Inlet/outlet/(in)</u>	<u>Location</u>	<u>Equipment Served</u>	<u>Notes</u>
	3"x3"	PEPS Pump Discharge No. 1	PEPS Discharge Forcemain	1, 2, 3
	3"x3"	PEPS Pump Discharge No. 2	PEPS Discharge Forcemain	1, 2, 3
	3"x3"	PEPS Pump Discharge No. 3	PEPS Discharge Forcemain	1, 2, 3
Notes: 1) Provide valve in a short body style 2) Provide vacuum check 3) Provide backflush attachment				

7. In Section 40 92 13.13,

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- a. Under 2.2A “Electric Actuators” Paragraph 7. DELETE “Contract 1” and SUBSTITUTE THEREFOR “Contract 1a”
8. In Section 40 94 00,
    - a. Under 1.2 “Summary” Paragraph A.1. DELETE “or FlexLogix”.
    - b. Under 2.3 “Equipment” Paragraph B.5 DELETE “PanelView Plus” and SUBSTITUTE THEREFOR “PanelView Plus7”.
  9. In Section 40 95 00,
    - a. Under 1.2 “Scope of Work” Paragraph A, ADD the following:
      - “6. CSI shall coordinate with process equipment vendors and manufacturers for equipment to be integrated into the SCADA and as minimum provide monitoring and visualization of the following equipment on the PCS:
        - a. IFAS System
        - b. Blower System
        - c. Odor Control
        - d. Screening
        - e. Filtration
    - b. Under 1.2 “Scope of Work” Paragraph B.5, ADD the following to last sentence, “... and vendor provided equipment.”
    - c. Under 1.7 “General Description of System” Paragraph F.2, ADD the following:
      - “d. PCS Lab OIT shall include visualization (graphics) of process related information for monitoring of the IFAS system. Process information shall be passed to SCADA for monitoring, alarming and trending.”
    - d. Under 1.7 “General Description of System” Paragraph F., ADD the following:
      - “3. PCS Lab shall allow the IFAS system to control all IR Pumps via the Plant network, via Ethernet messaging. Coordinate information exchange and requirements with Contract 1.
    - e. Under 3.4 “Process Control Descriptions” Paragraph D, last sentence, DELETE “for the purpose of responding to comments outside of the defined scope” and SUBSTITUTE THEREFOR the following: “...for the purpose of program development services for items outside of contract scope, or as identified by Engineer or Owner during the course of the project construction”
  10. In Section 43 21 13.31.1,
    - a. DELETE references to “Contract 1” and SUBSTITUTE THEREFOR “Contract 1b” in the following sections:

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- a. 2.1.A, 3.1.A, 3.1.B, 3.2.A, 3.2.C, 3.3 B, 3.3 C, 3.3 E, 3.4A, 3.4 B, 3.4C, 3.5B, 3.5C, 3.7A
  - b. Under 3.2 .A, DELETE the text “Equipment Delivery Window: January 14, 2016 to October 29, 2016” and SUBSTITUTE THEREFOR the text “Equipment Delivery Window: April 1, 2016 to October 29, 2016”
  - c. Following paragraph 3.5.C, ADD the following paragraph:
    - “D. If the Contractor chooses to utilize the VTSH pumps using temporary piping to pump primary clarifier effluent to the secondary treatment process prior to final permanent installation of the complete pumping system, the Contractor shall have the Manufacturer’s representative perform installation, testing and startup of the temporary system. This testing shall be conducted at no additional cost to the City. ”
11. In Section 43 21 36.41,
- a. In paragraph 1.2.B, following the text “The new screw and bearings shall work in conjunction with the existing drive motor, floor-mounted gear reducer, V-belts and sheaves, and automatic lower bearing lubrication system.” ADD the text “All changes required to the existing equipment for the proper installation and operation of the new screw and bearings shall be performed by the Contractor at no cost to the City.”
  - b. In paragraph 1.6.A.1, DELETE the text “All structural design calculations shall be prepared by the manufacturer and sealed by a professional engineer registered in the State of Ohio” and SUBSTITUTE THEREFOR the text “All structural design calculations shall be prepared by the manufacturer and sealed by a professional engineer”.
  - c. In paragraph 2.2.A, DELETE the text “Rotational Speed, rev/min” and SUBSTITUTE THEREFOR the text “Minimum Rotational Speed, rev/min”.
12. In Section 43 21 39.11,
- a. In section 2.1, DELETE paragraph C in its entirety and SUBSTITUTE THEREFOR the following:
    - C. Acceptable manufacturers:
      - 1. ABS
      - 2. Flowserve
      - 3. KSB
      - 4. Or approved equal

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- b. In paragraph 2.3.A, DELETE “Design Point @ rated speed: 5,625 gpm @ 24.5 ft TDH” and SUBSTITUTE THEREFOR “4,900 gpm @ 17.6 ft TDH”.
  - c. In paragraph 2.4.B.1, ADD the following “or semi open” AFTER “Provide non-clog”.
  - d. In paragraph 2.4.B.3, ADD the following “or wear plate” AFTER “Replaceable insert rings”.
  - e. In paragraph 2.6.A.1, ADD the following “, if applicable” AFTER “One impeller with wear ring attached”
  - f. In paragraph 2.6.A.2, ADD the following “or wear plate” AFTER “One set of impeller and case wear rings with screws”
  - g. In paragraph 2.6.A.5, DELETE “One Quart of extra oil per pump” and SUBSTITUTE THEREFOR the following “One Quart of extra fluid per pump”
13. In Section 46 53 33.1,
- a. DELETE references to “Contract 1” and SUBSTITUTE THEREFOR “Contract 1a” in the following sections:
    - a. 1.2.B, 1.2.C, 2.1.A, 3.1.B, 3.2.A, 3.2.C, 3.3 B, 3.3 C, 3.3 E, 3.4A, 3.4C, 3.5B, 3.5C, 3.7A

**C. IN THE CONTRACT DRAWINGS**

- 1. DELETE Drawing A-001, File No. 23374.51633-A001, Revision 0, 09/23/2015, and SUBSTITUTE THEREFOR Drawing A-001, File No. 23374.51633-A001, Revision 1, 10/23/2015.
- 2. DELETE Drawing A-201, File No. 23374.51633-A201, Revision 1, 09/23/2015, and SUBSTITUTE THEREFOR Drawing A-201, File No. 23374.51633-A201, Revision 2, 10/23/2015.
- 3. Drawing A-700, File No. 23374.51633-A700, Revision 1, 09/23/2015 Issued for Bid.
  - a. ADD THE FOLLOWING “NOTE: CONTRACTOR TO COORDINATE PENETRATION OF NEW FERRIC FEED LINE THROUGH VESTIBULE”.
- 4. Drawing S-010, File No. 23374.51633-S010, Revision 1, 09/23/2015 Issued for Bid.
  - a. REVISE "CONCRETE WALL REINFORCING SCHEDULE" FOR MARK "PEPSW5": CHANGE BOTTOM OF WALL TO READ 81'-0"

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5. DELETE Drawing S-202, File No. 23374.51633-S202, Revision 1, 09/23/2015, and SUBSTITUE THEREFOR Drawing S-202, File No. 23374.51633-S202, Revision 2, 10/23/2015.
6. DELETE Drawing S-203, File No. 23374.51633-S203, Revision 1, 09/23/2015, and SUBSTITUE THEREFOR Drawing S-203, File No. 23374.51633-S203, Revision 2, 10/23/2015.
7. DELETE Drawing S-204, File No. 23374.51633-S204, Revision 1, 09/23/2015, and SUBSTITUE THEREFOR Drawing S-204, File No. 23374.51633-S204, Revision 2, 10/23/2015.
8. DELETE Drawing S-206, File No. 23374.51633-S206, Revision 1, 09/23/2015, and SUBSTITUE THEREFOR Drawing S-206, File No. 23374.51633-S206, Revision 2, 10/23/2015.
9. DELETE Drawing S-207, File No. 23374.51633-S207, Revision 1, 09/23/2015, and SUBSTITUE THEREFOR Drawing S-207, File No. 23374.51633-S207, Revision 2, 10/23/2015.
10. DELETE Drawing S-208, File No. 23374.51633-S208, Revision 1, 09/23/2015, and SUBSTITUE THEREFOR Drawing S-208, File No. 23374.51633-S208, Revision 2, 10/23/2015.
11. DELETE Drawing M-230, File No. 23374.51633-M230, Revision 1, 09/23/2015, and SUBSTITUE THEREFOR Drawing M-230, File No. 23374.51633-M230, Revision 2, 10/23/2015.
12. DELETE Drawing H-110, File No. 23374.51633-H110, Revision 1, 09/23/2015 Issued for Bid; AND SUBSTITUTE THEREFOR Drawing H-110, File No. 23374.51633-H110, Revision 2, 10/23/2015 Addendum 1.
13. DELETE Drawing H-112, File No. 23374.51633-H112, Revision 1, 09/23/2015 Issued for Bid; AND SUBSTITUTE THEREFOR Drawing H-112, File No. 23374.51633-H112, Revision 2, 10/23/2015 Addendum 1.
14. DELETE Drawing H-116, File No. 23374.51633-H116, Revision 1, 09/23/2015 Issued for Bid; AND SUBSTITUTE THEREFOR Drawing H-116, File No. 23374.51633-H116, Revision 2, 10/23/2015 Addendum 1.
15. DELETE Drawing H-201, File No. 23374.51633-H201, Revision 1, 09/23/2015 Issued for Bid; AND SUBSTITUTE THEREFOR Drawing H-201, File No. 23374.51633-H201, Revision 2, 10/23/2015 Addendum No. 1.

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16. Drawing H-603, File No. 23374.51633-H603, Revision 1, 09/23/2015 Issued for Bid.
  - a. DELETE NOTE 3, AND SUBSTITUTE THEREFOR: “3. ROUTE DIGESTER GAS UP THROUGH FLOOR TO BOILERS ABOVE. COORDINATE LOCATION OF DIGESTER GAS PIPE PENETRATIONS WITH LOCATION OF BOILER B-SHB-1 AND B-SHB-2 GAS TRAIN CONNECTIONS ON FLOOR ABOVE”.
17. Drawing H-604, File No. 23374.51633-H604, Revision 1, 09/23/2015 Issued for Bid.
  - a. ADD THE FOLLOWING TO NOTE 11: “EXISTING UNIT IS A PETRA MODEL NUMBER CM3046, SERIAL NUMBER 50264/0301/01. HOT WATER PIPING IS 1-1/2” DIAMETER. VERIFY IN FIELD”.
18. Drawing H-611, File No. 23374.51633-H611, Revision 1, 09/23/2015 Issued for Bid.
  - a. DELETE “P-SHB-6” AND SUBSTITURE THEREFORE “P-SHB-8”.
  - b. DELETE “P-SHB-7” AND SUBSTITURE THEREFORE “P-SHB-9”.
19. Drawing H-701, File No. 23374.51633-H701, Revision 1, 09/23/2015 Issued for Bid.
  - a. DELETE “SG-MUAU-701” AND SUBSTITURE THEREFORE “MUAU-SG-701”.
20. Drawing P-101, File No. 23374.51633-P101, Revision 1, 09/23/2015 Issued for Bid.
  - a. ADD THE FOLLOWING UNDER DRAWING NOTES “4. THE ABBREVIATION “PW” INDICATES PLANT WATER”.
  - b. ADD THE FOLLOWING UNDER DRAWING NOTES “5. PLANT WATER PIPING INSTALLED IN THE SCREEN ROOM SHALL BE PVC”.
21. Drawing P-302, File No. 23374.51633-P302, Revision 1, 09/23/2015 Issued for Bid.
  - a. DELETE “4” PLANT EFFLUENT BOP 4’-8 AFF.” AND SUBSTITUTE THEREFOR “6” PLANT EFFLUENT BOP 4’-8” AFF.”
  - b. DELETE “4”x4”X2” TEE WITH BRANCH TO SCUM FLUIDING.” AND SUBSTITUTE THEREFOR “6”x6”x2” TEE WITH BRANCH TO SCUM WELL SPRAY NOZZLES.”
22. Drawing P-702, File No. 23374.51633-P702, Revision 1, 09/23/2015 Issued for Bid.
  - a. DELETE “8”x6”x2” TEE” AND SUBSTITUTE THEREFOR “6”x6”x2” TEE”.



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#### **D. QUESTIONS AND ANSWERS**

**Q1:** Clarification requested on the pipe materials for the lines supplying plant water to the fine screens spray headers and washer compactor on drawings P-101 and P-104. Specification 22 10 00 requires carbon steel pipe for plant water piping. P-104 shows PVC ball valves used in this piping. Is this correct? Also the abbreviation PW is used on this piping on P-101. PW is the abbreviation for potable water on C-101 whereas NPW is used for non-potable water.

**A1:** The intent is to use schedule 40 PVC for the water piping in the Screen Room supplying plant water to the fine screens spray headers and washer compactor.

**Q2:** Clarification requested on piping materials, sizes and details in the following subject areas:

**Q2a:** Should the 8" x 8" x 2" tee shown on the plant effluent line on SHT P-702 be a 6" x 6" x 2" tee instead?

**A2a:** Yes, a 6" x 6" x 2" tee is correct.

**Q2b:** Should the extension of the plant effluent line shown on SHT P-302 be a 6" as shown on P-702 or a 4" as shown on P-302?

**A2b:** 6" is correct.

**Q2c:** Is the 2" line to the scum well spray nozzles shown in Detail Section B on SHT M-322 the same as the 2" scum fluidizing line shown off the 4" x 4" x 2" tee on SHT P-302?

**A2c:** Yes, it is the same line.

**Q2d:** Please provide mechanical sheet number(s) where 2" plant effluent up to hose station... shown on SHT P-302 can be found.

**A2d:** The hose station is not shown on Mechanical sheets.

**Q2e:** In general is all above grade sanitary and storm piping no hub cast iron?

**A2e:** In general, yes, except above grade storm piping in the Fine Screening Building shall be PVC.

**Q2f:** In general is all below grade sanitary piping service weight cast iron?

**A2f:** Sanitary piping below grade (under building) is cast iron. Sanitary piping below grade (exterior to building) is PVC. Below grade cleanouts (exterior to building) are cast iron, per detail on drawing C-003.

**Q2g:** In general is all below grade storm piping service PVC pipe?

**A2g:** No, in general below grade storm piping exterior to building is polyethylene.

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Below grade cleanouts (exterior to building) are cast iron, per detail on drawing C-003.

**Q3:** Requested clarification on crystalline add mixture dosage rates.

**A3:** Please see addendum for changes to Specification 03 30 00.

**Q4:** Clarification Requested on the design point and associated horsepower required for the nine IR pumps (Specification 43 21 39.11).

**A4:** The design point at rated speed (5,625 gpm @ 24.5 TDH) will be modified to 4,900 gpm @ 17.6 TDH. The design HP will remain at 30 HP. Please see addendum for all changes to the specification.

**Q5:** Clarification requested in the following areas:

**Q5a:** Drawing A700-Secondary Gallery; The existing floor slab is to be removed- Are there as-built drawings of this area to tell us how thick the existing floor slab is? Will the new floor require a continuous 8" sump drain to match the existing?

**A5a:** Existing drawings indicate slab to be 14" thick. No sump drain required.

**Q5b:** Drawings S203: Primary Effluent Pump Station: Wall types PEPSW10, PEPSW11, PEPSW11, PEPSW12 and PEPSW13 are not on the wall schedule shown on drawing S010.

**A5b:** S-203: Change PEPSW10, PEPSW11 and PEPSW12 to PEPSW8

S-204: Change PEPSW13 (2 places) to PEPSW5

S-206: Section 3, change PEPSW10 to PEPSW8 (Sections 1 and 2 are correct)

S-208: Section 1, change PEPSW13 to PEPSW5

S-010: Change bottom of wall for PEPSW5 in schedule to 81'-0"

Please refer to the addendum for associated changes to the sheets.

**Q5c:** Drawing S505 Tertiary Filters/UV Building: The existing hollow core roof slabs - would it be acceptable to salvage and reinstall once the interior work is complete?

**A5c:** Only use new hollow core roof slabs. Dispose of Existing.

**Q5d:** Wall types called out on drawing S203 & S204, do not reflect the wall marks shown on the cross-section views shown on drawings S206

**A5d:** See answer to Q5b.

**Q6:** Clarification requested on the following:

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**Q6a:** The specifications “Legal Notice” states DBE Goals are set forth in the contract documents. Where is this located?

**A6a:** The DBE Participation Goals and instructions shown in the Instructions to Bidders pages ITB-15, 16.

**Q6b:** Does the EPA have a list of acceptable DBE Subcontractors/Suppliers? If so where can we find this list?

**A6b:** The following is a link to a webpage of the State of Ohio Small and Disadvantaged Business Enterprise United Certification Program, which bidders may find helpful in identifying potential DBE subcontractors and suppliers:

<http://www.dot.state.oh.us/Divisions/ODI/SDBE/Pages/UCP.aspx>

**Q6c:** Would the Engineer/Owner consider having the Low Bidder submit this information after the bid opening? It will be close to impossible to have all of the necessary DBE forms correctly filled out and signed to be submitted with the bid proposal.

**A6c:** According to Federal requirements, bidders must submit forms 6100-3 and 6100-4 with their bid, showing each MBE/WBE sub and indicating if the 1.2% and 1.8% goals have been met. If the goals are not met, a bidder has to submit evidence of good faith efforts to get MBE/WBE participation, with its bid.

**Q7:** Clarification requested on the Building Heat Boilers for the following:

**Q7a:** On SHT H-611, Should pumps P-SHB-6 and P-SHB-7 be labeled instead, P-SHB-8 and P-SHB-9?

**A7a:** Yes. Please refer to addendum items.

**Q7b:** Also on same sheet in detail to left of these pumps, on which sheet(s) can detail of connections to 6" pipe shown as "4 PIPE DIAMETERS MAX" be found?

**A7b:** No detail has been provided. The 4 pipe diameters refer to the maximum distance between the two tees shown in the diagram.

**Q7c:** In Section 23 11 24-3, paragraph 2.1.C.2 should the fittings be schedule 10S instead of 40S?

**A7c:** Yes. Please refer to the addendum items.

**Q8:** CMUs & Concrete- Do the CMU walls and Concrete walls and ceilings receive any type of painting. There is no Finish Schedule provided in the Bid Drawings.

**A8:** A Finish Schedule will be provided via addendum. Please refer to the addendum.

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**Q9:** Request Clarification on the following HVAC items:

**Q9a:** On drawing H604, what is the make and model number of the existing muah unit that requires a new corrosion resistant coil? What is the size of the hws and hwr piping to and from this unit?

**A9a:** Please refer to addendum items.

**Q9b:** On drawing 604, are we to re-use the pumps to the muau and the replacement unit heaters?

**A9b:** Yes, the existing pumps are to be re-used.

**Q9c:** Digester gas is shown on the schematic going to boiler B-SHB-1 and B-SHB-2 but is not shown on drawing H-604. Required or not required?

**A9c:** Required. Shown on H-603 (floor below). Route up through floor to boilers. Refer to addendum items.

**Q9d:** Where on the drawings are the polymer supports detail shown on H-607 referenced?

**A9d:** Drawing H-602 (at column B-4)

**Q9e:** What is acceptable for heating and/or cooling the administration building while the boiler room is being replaced with the new equipment? Would an office trailer for the personnel next to the building be acceptable with a portable propane heating unit for the lab only? I'm assuming this work would only be possible in the winter months due to the difficulty of providing a cooling distribution system. What had you expected to see for this if not?

**A9e:** Additional information to be forthcoming in a future addendum.

**Q9f:** Will a plan view of the heating system piping in the administration boiler room be forthcoming or are we to guess at an equipment layout and go by the schematics? Are you sure the new equipment can actually be installed in the space where this equipment is going?

**A9f:** Major equipment (AHU and boiler) has been confirmed to fit. Hot water pumps are inline type and may be mounted overhead. Additional information will be provided in a future addendum, as needed.

**Q9g:** The gas to the fine screens building has a regulator shown. What is the incoming pressure, outgoing pressure and cfh required?

**A9g:** See addendum item.

**Q9h:** Drawing H-116 has different pipe sizes serving the unit heaters than the plan views. Which drawings sizes are correct?

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**A9h:** See addendum items.

**Q9i:** Drawing H-301 shows a by-pass loop shown. The demo drawing and the plan view do not show column numbers but is the demo section the same section as the plan view where the by-pass is drawn? If no, where is the by-pass in relation to the demo?

**A9i:** The demo plan shows the same portion of the facility as the install plan. The bypass is to be added at the end of the hot water supply and return lines after demo.

**Q9j:** On H-609 the digester hws/r is labeled as building heat. The building heat is actually the lines identified as keyed notes 3 and 4. In discussions last summer with Tony and Dave they would like to use the digester hws/r to feed the building heat hws/r so that the building heating lines in the tunnel (not in this contract) can be replaced in the future. That would require shut-off valves ahead of the tie-ins shown in key notes 3 and 4. Would you like the 5” building heating lines to have these valves installed under this contract while the lines are drained?

**A9j:** Please provide installation as indicated on H-609.

**Q9k:** On drawings H-611 and H-610, both sets of pumps are labeled P-SHB-6 and P-SHB-7. Pumps P-SHB-8 and P-SHB-9 are not shown. (it seems obvious drawing H-611 has the typo and should have pumps 8 and 9).

**A9k:** Agreed, see addendum item.

**Q9l:** On drawing H-701, muau-sg-1 is mislabeled as sg-muau-701 correct?

**A9l:** Correct. See addendum item.

**Q10:** Please furnish a copy of the Pre-Bid Meeting Agenda and Sign in List. Is the Pre-Bid Meeting Mandatory?

**A10:** The Pre-Bid Meeting agenda and Sign in list are provided as attachments to this addendum. The Pre-Bid Meeting is not mandatory.

**Q11:** On drawing M-231, there shows temporary piping. Is there a spec for this temporary piping system? Does it have any minimum hydraulic characteristics (e.g. ID, C factor, etc.) in order for it to function as required with the pre-purchased PEPS pumps or is that on the contractor to figure out?

**A11:** The temporary piping system is described in Specification 00850 Continuous Treatment, paragraph D.8. The temporary piping is shown on drawing M-231 only as a suggestion to the Contractor as a way to provide flow from the effluent of the primary clarifiers to the secondary treatment process. Based on the piping configuration and sizes shown on drawing M-231, using ductile iron pipe with a C factor of 120, calculations show a discharge flow of 18.2 MGD with

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two pumps running and 24.8 MGD with all three pumps running. The discharge is to four roughing filters (numbers 3, 4, 5, and 6). The minimum required flow rate is 27 MGD. Reserve pumping must also be provided for the largest pump in service. The three pre-purchased VTSH pumps are all the same size.

**Q12:** Will all electrical work require only one City permit?

**A12:** The Contractor will be required to submit multiple electrical permits although no fees will be charged by the City for the permits.

**Q13:** Will all HVAC work require only one City permit?

**A13:** The Contractor will be required to submit multiple HVAC permits although no fees will be charged by the City for the permits.

**Q14:** Are coordination drawings required?

**A14:** Yes, coordination drawings are required, to be submitted as shop drawings during construction. Refer to the technical specifications by trade for specific requirements.

**Q15:** Will the City furnish water for the Contractor's use?

**A15:** Yes, the City will provide non-potable water (plant effluent quality).

**Q16:** Will the City furnish water for leakage testing?

**A16:** Yes, the City will provide non-potable water (plant effluent quality).

**Q17:** Will the Contractor need to pay for all potable water use?

**A17:** Yes, meter(s) will need to be installed and paid for by the Contractor. Quantity of water shown by the meter(s) will be used as the basis of payment back to the City.

**Q18:** Will a meter be required to be installed by the Contractor for natural gas used by the Contractor?

**A18:** Yes.

**Q19:** Will temporary heat need to be provided by the Contractor?

**A19:** Yes.

**Q20:** Will the Contractor need to pay for all electrical usage?

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**A20:** Meter(s) are required for all temporary electric so any usage beyond City's project allowance of \$200,000.00 is to be paid by Contractor.

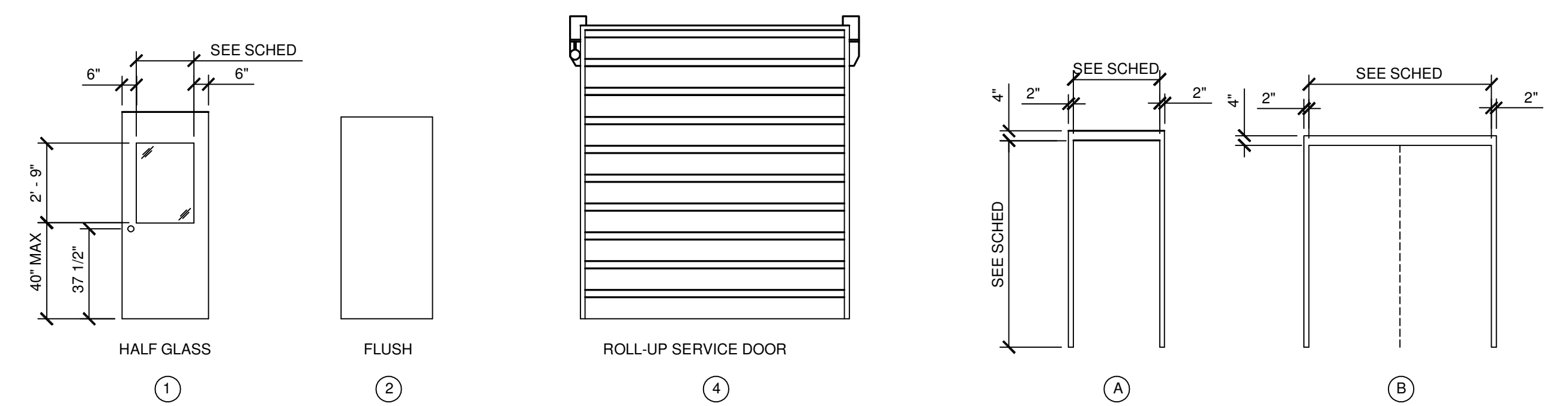
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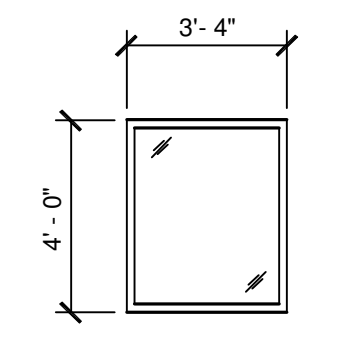
DOOR AND FRAME SCHEDULE													
DOOR				FRAME					HARDWARE			REMARKS	
DOOR NUMBER	TYPE	MATERIAL	FINISH	SIZE OF EACH DOOR	GLAZING TYPE	ELEVATION	MATERIAL	FINISH	HEAD	JAMB	SILL		SET NO.
FINE SCREEN BUILDING (FSB)													
FSB-1	3	ALUM	-	8'-0"x8'-0"					H3	J1	S3		ELECTRIC MOTOR OPERATOR
FSB-2	3	ALUM	-	8'-0"x8'-0"					H3	J1	S3		ELECTRIC MOTOR OPERATOR
FSB-3	1	FRP	PTD	3'-0"x7'-0"	1/4" TEMP GLASS	A	FRP	PTD	H1	J1	S1	1	
FSB-4	1	FRP	PTD	3'-0"x7'-0"	1/4" TEMP GLASS	A	FRP	PTD	H1	J1	S1	1	
FSB-5	1	FRP	PTD	2'-10"x7'-0"	1/4" TEMP GLASS	B	FRP	PTD	H1	J1	S2	3	DOUBLE
FSB-6	1	FRP	PTD	3'-0"x7'-0"	1/4" TEMP GLASS	A	FRP	PTD	H1	J1	S1	1	
FSB-7	1	FRP	PTD	2'-10"x7'-0"	1/4" TEMP GLASS	B	FRP	PTD	H1	J1	S1	2	DOUBLE
FSB-8	1	FRP	PTD	3'-0"x7'-0"	1/4" TEMP GLASS	A	FRP	PTD	H1	J1	S1	1	
PRIMARY EFFLUENT PUMP STATION (PEPS)													
PEPS-1	1	FRP	PTD	3'-0"x7'-0"	1/4" TEMP GLASS	A	FRP	PTD	H1	J1	S1	1	
PEPS-2	1	FRP	PTD	2'-10"x7'-0"	1/4" TEMP GLASS	B	FRP	PTD	H1	J1	S1	2	DOUBLE
PEPS-3	3	FRP	PTD	3'-0"x7'-0"	1/4" TEMP GLASS	A	FRP	PTD	H1	J1	S1	1	
PEPS-4	4	FRP	PTD	3'-0"x7'-0"	1/4" TEMP GLASS	A	FRP	PTD	H1	J1	S1	1	
PEPS-5		ALUM		3'-0"x3'-0"			ALUM						FLOOR DOOR
PEPS-6		ALUM		3'-0"x3'-0"			ALUM						FLOOR DOOR
PEPS-7		ALUM		5'-0"x5'-0"			ALUM						FLOOR DOOR
PEPS-8		ALUM		5'-0"x5'-0"			ALUM						FLOOR DOOR
PEPS-9		ALUM		5'-0"x5'-0"			ALUM						FLOOR DOOR
PEPS-10		ALUM		5'-0"x5'-0"			ALUM						FLOOR DOOR
PEPS-11		ALUM		2'-6"x2'-6"			ALUM						FLOOR DOOR w/FALL PROTECTION - NOTE 1
PEPS-12		ALUM		2'-6"x2'-6"			ALUM						FLOOR DOOR
PEPS-13		ALUM		2'-6"x2'-6"			ALUM						FLOOR DOOR
PEPS-14		ALUM		2'-6"x2'-6"			ALUM						FLOOR DOOR - NOTE 1
SECONDARY GALLERY (SG)													
SG-1	1	FRP	PTD	3'-0"x7'-0"	1/4" TEMP GLASS	A	FRP	PTD	H1	J1	S1	1	
SG-2	1	FRP	PTD	3'-0"x7'-0"	1/4" TEMP GLASS	A	FRP	PTD	H1	J1	S1	1	

NOTE 1: PROVIDE 8"x8" DOOR FOR GATE ACCESS. COORDINATE LOCATION WITH GATE MANUFACTURER

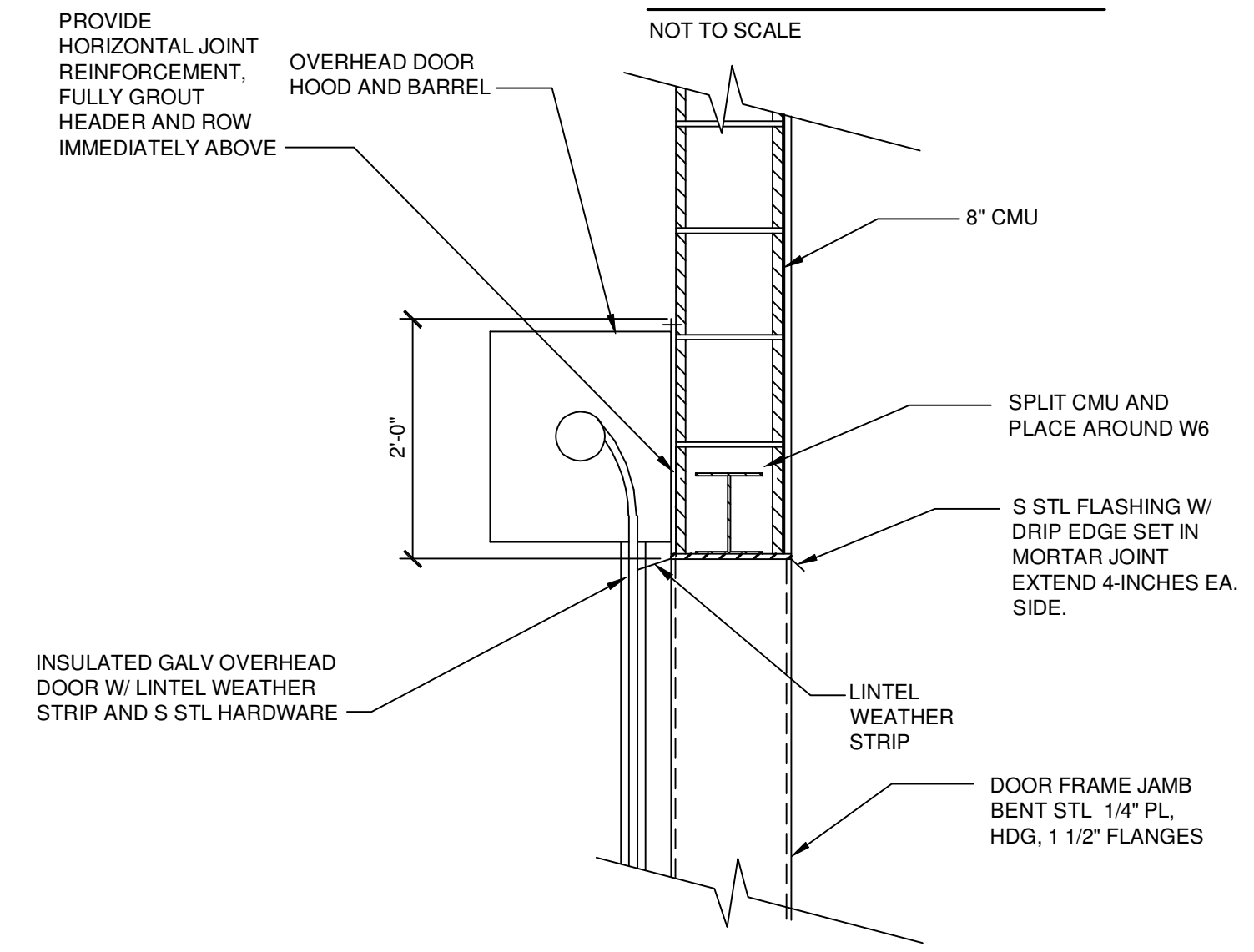


**DOOR TYPES**  
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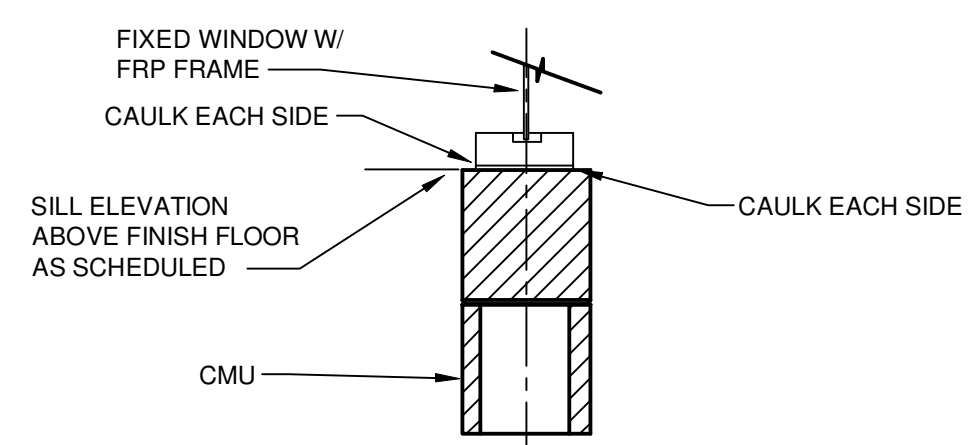
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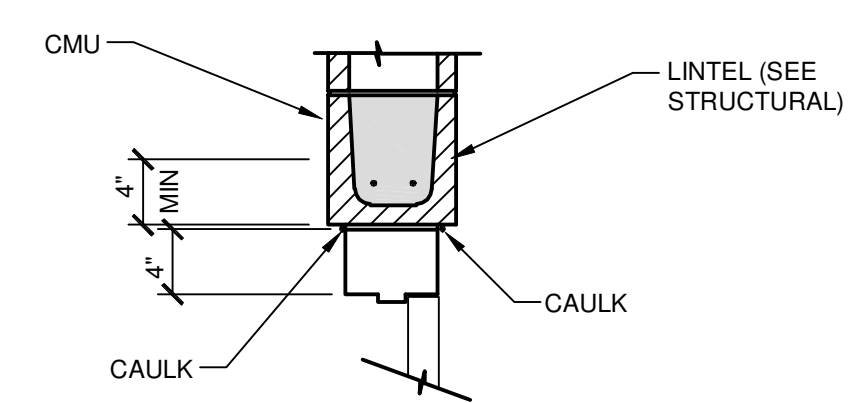
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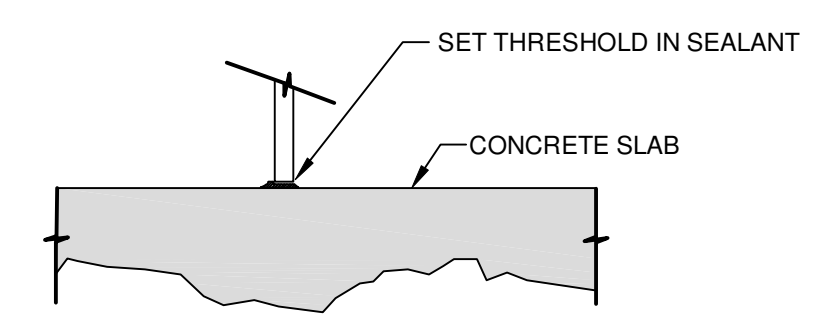
**H3 OVERHEAD DOOR - HEADER - DETAIL**  
1"=1'-0" 4" 2" 0 1"



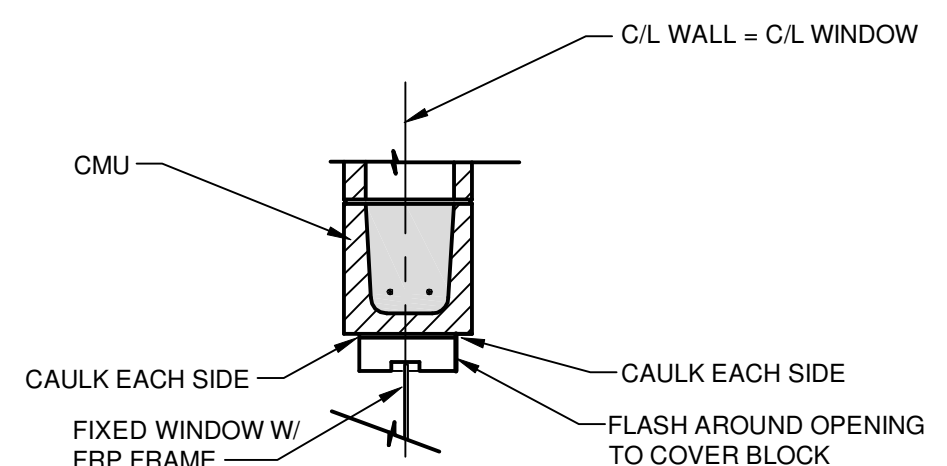
**S5 WINDOW SILL DETAIL**  
1"=1'-0" 4" 2" 0 1"



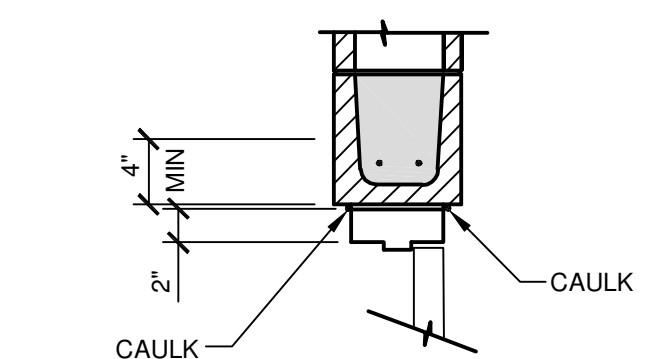
**H1 DOOR HEAD DETAIL**  
1"=1'-0" 1' 6" 0 1"



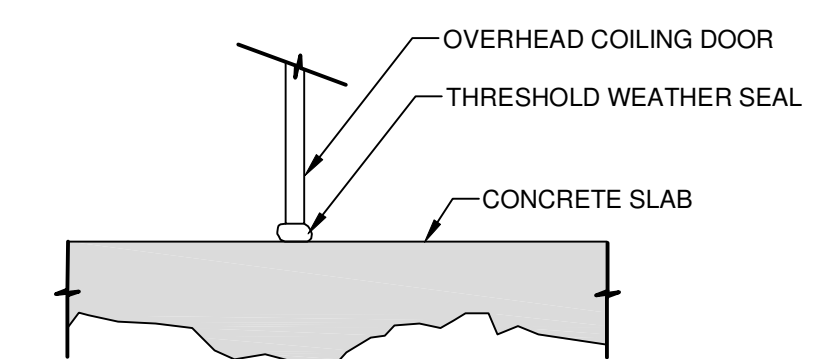
**S2 DOOR SILL DETAIL**  
1"=1'-0" 1' 6" 0 1"



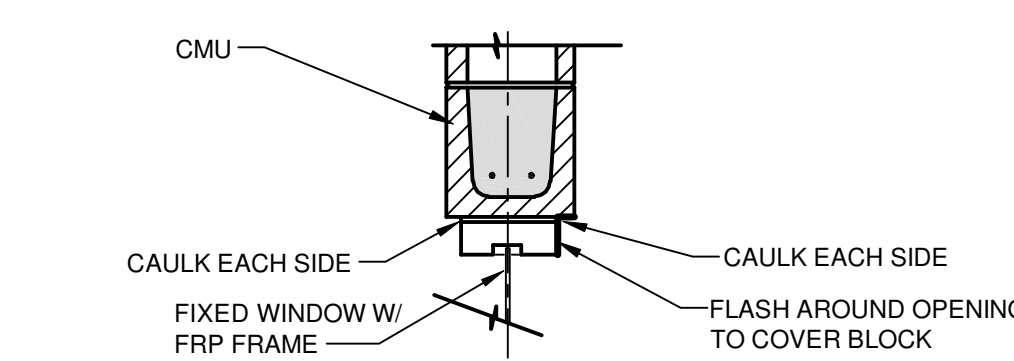
**H2 WINDOW HEAD DETAIL**  
1"=1'-0" 1' 6" 0 1"



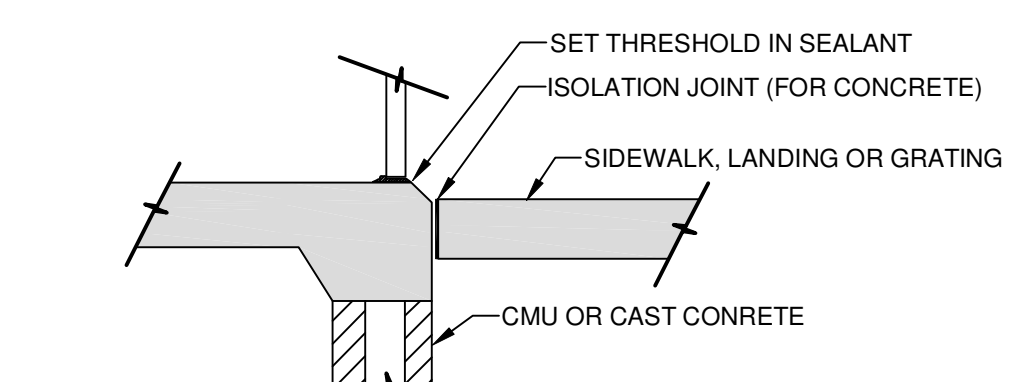
**J1 DOOR JAMB DETAIL**  
1"=1'-0" 1' 6" 0 1"



**S3 DOOR SILL DETAIL**  
1"=1'-0" 1' 6" 0 1"



**J2 WINDOW JAMB DETAIL**  
1"=1'-0" 4" 2" 0 1"



**S1 DOOR SILL DETAIL**  
1"=1'-0" 1' 6" 0 1"

ROOM FINISH SCHEDULE				
Room	Floor Finish	Wall Finish	Ceiling Height	Ceiling Finish
<b>FSB</b>				
101 PIPE GALLERY	CONCRETE	CONCRETE	13'-0"	CONCRETE
200 SCREEN ROOM	CONCRETE	PAINT ON CMU	12'-0" +/-	PAINT ON CONCRETE
201 ELECTRICAL ROOM	CONCRETE	PAINT ON CMU	12'-0" +/-	PAINT ON CONCRETE
202 MECHANICAL ROOM	CONCRETE	PAINT ON CMU	12'-0" +/-	PAINT ON CONCRETE
203 DUMPSTER ROOM	CONCRETE	PAINT ON CMU	17'-4" +/-	PAINT ON CONCRETE
<b>PEPS</b>				
200 MOTOR ROOM	CONCRETE	PAINT ON CONCRETE	11'-6"	PAINT ON CONCRETE
300 ELECTRICAL ROOM	CONCRETE	PAINT ON CMU	11'-8"	PAINT ON CONCRETE
<b>TFB</b>				
MAIN ROOM	NA	NA		PAINT ON CONCRETE - MATCH EXISTING

NOTE: FOR COLORS CONSULT WITH OWNER

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DESIGNED BY	KGP			
CHECKED BY	RWR	1	10/23/2015	ADDENDUM NO. 1
DRAWN BY	AJP	0	09/23/2015	ISSUED FOR BID
		NO.	DATE	REVISION

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CITY OF MASSILLON  
2013 WWTP IMPROVEMENTS  
MASSILLON, OHIO

ARCHITECTURAL

FILE NO. 23374.51633 - A001

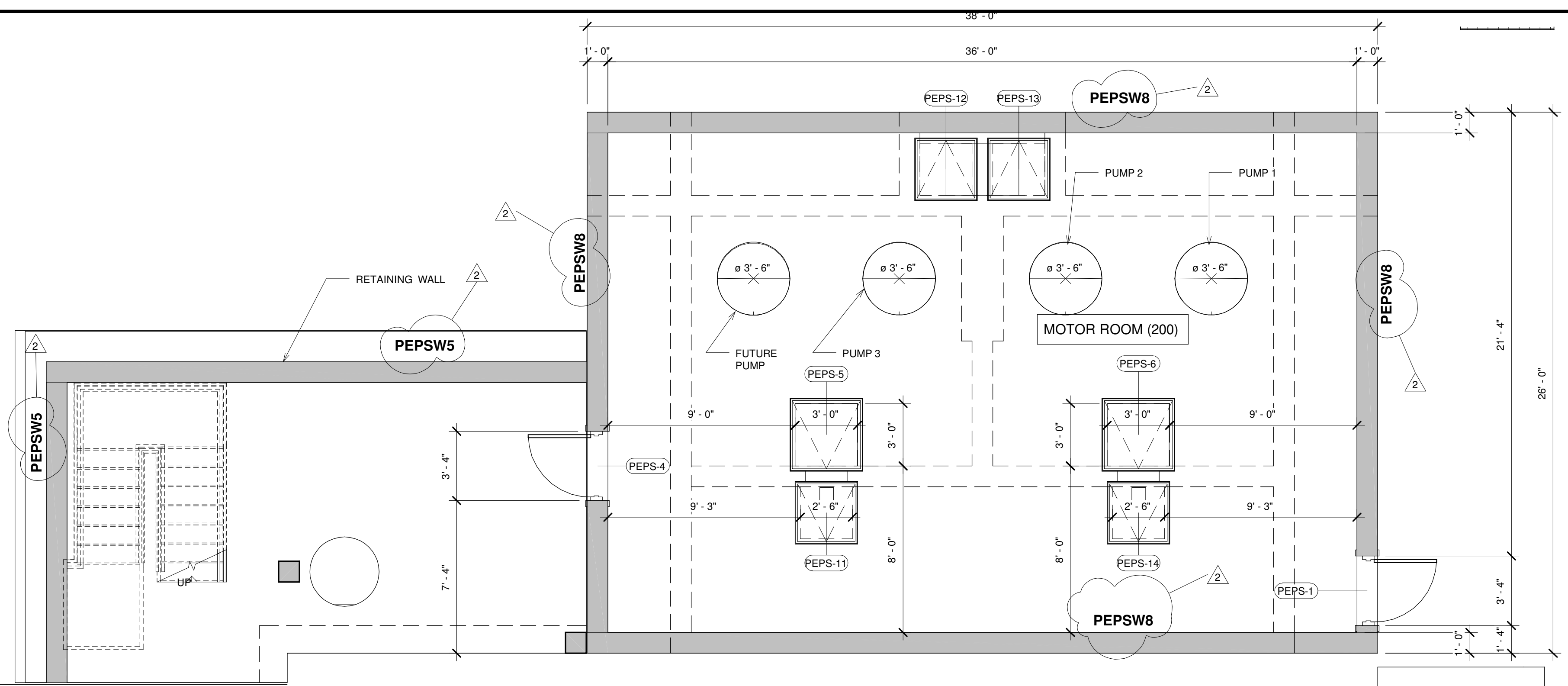
DATE SEPT. 23, 2015

**A-001**

**GENERAL DETAILS**

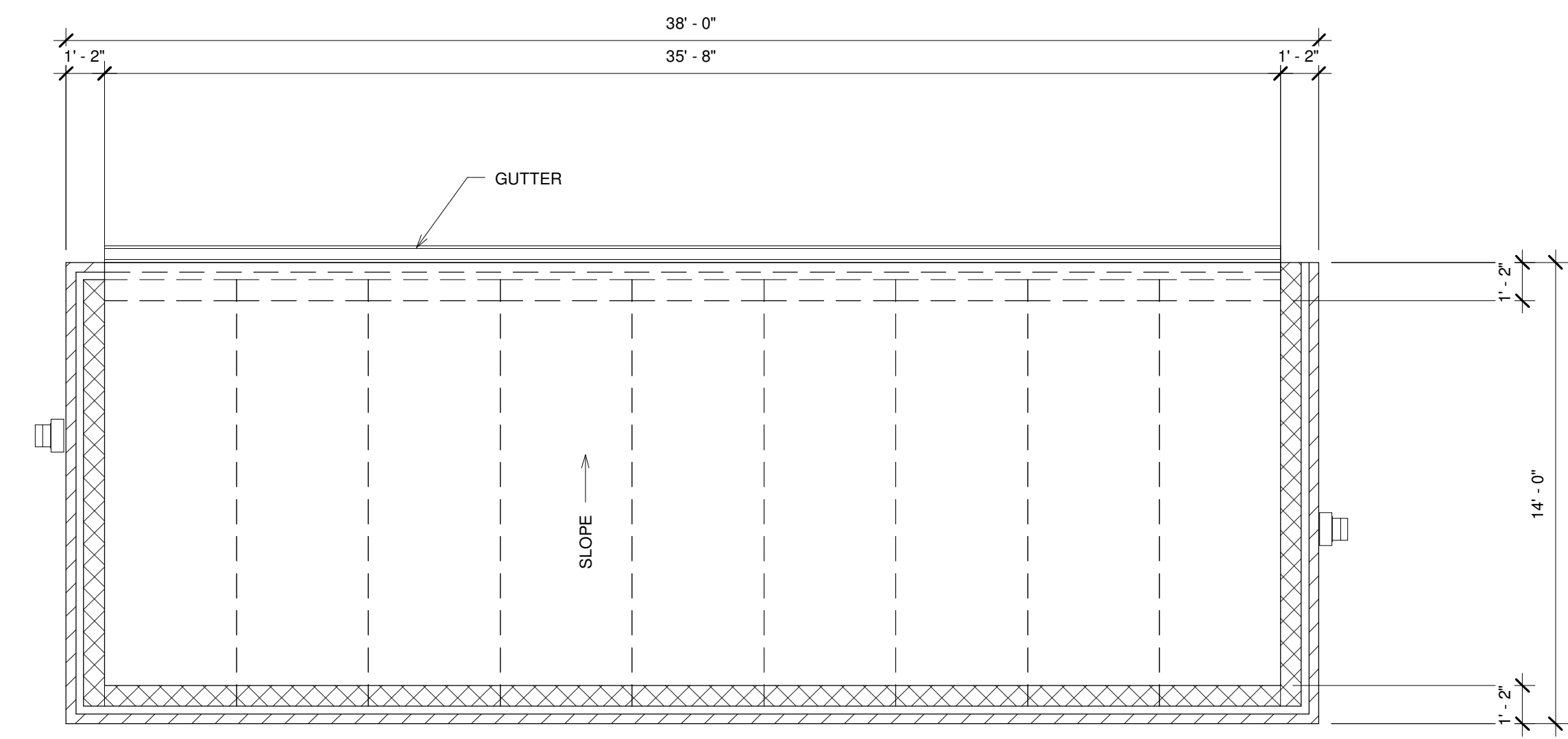


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**ARCHITECTURAL MOTOR ROOM FLOOR PLAN**

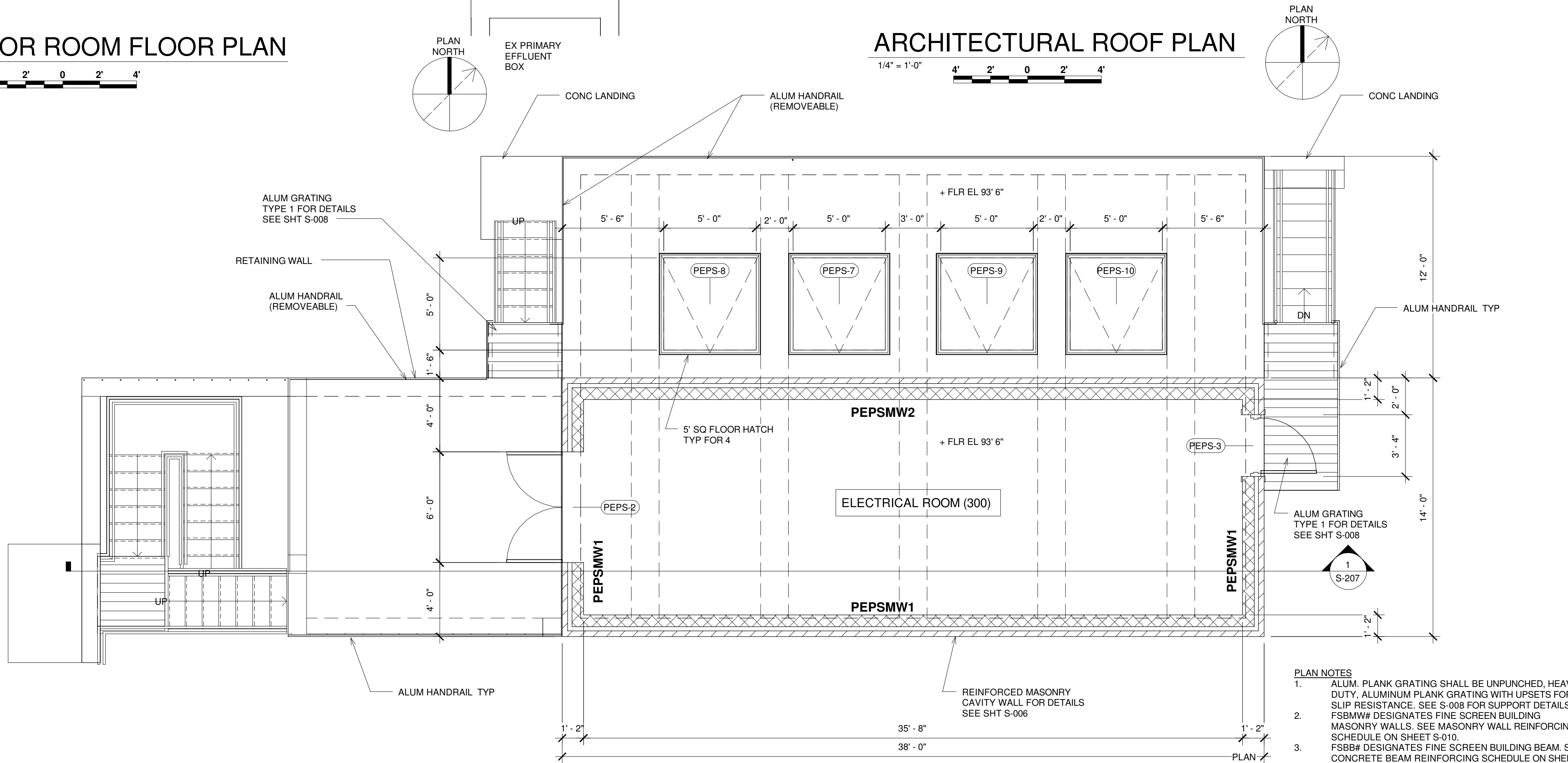
1/4" = 1'-0"  
4' 2' 0' 2' 4'



**ARCHITECTURAL ROOF PLAN**

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

- BUILDING CODE INFORMATION**
- 2011 OHIO BUILDING CODE
  - USE GROUP: F-2
  - OCCUPANCY: 2
  - BUILDING IMPORTANCE FACTOR: CATEGORY III
  - NON-SPRINKLED



**ARCHITECTURAL UPPER LEVEL FLOOR/DECK PLAN**

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

- PLAN NOTES**
- ALUM. PLANK GRATING SHALL BE UNPUNCHED, HEAVY DUTY, ALUMINUM PLANK GRATING WITH UPSETS FOR SLIP RESISTANCE. SEE S-008 FOR SUPPORT DETAILS. FSBMW# DESIGNATES FINE SCREEN BUILDING MASONRY WALLS. SEE MASONRY WALL REINFORCING SCHEDULE ON SHEET S-010.
  - FSB# DESIGNATES FINE SCREEN BUILDING BEAM. SEE CONCRETE BEAM REINFORCING SCHEDULE ON SHEET S-010.
  - FLOOR, PLATFORM AND STAIR LIVE LOAD = 100 PSF
  - ALL ALUMINUM STAIRS, PLATFORMS, FRAMING, HANDRAIL AND PLANK GRATING SHOWN ON THIS PLAN ARE NEW.
  - ALUMINUM PLATFORMS TO BE CONSTRUCTED FROM C8X4.25S SPACED 5'-0" MAX AND 1 1/2" PLANKS. POST DOWN OR KNEE BRACE OFF EXISTING STRUCTURE WITH L4X4X5/16

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0	03/19/2015	ISSUED FOR OEPA REVIEW			KGP

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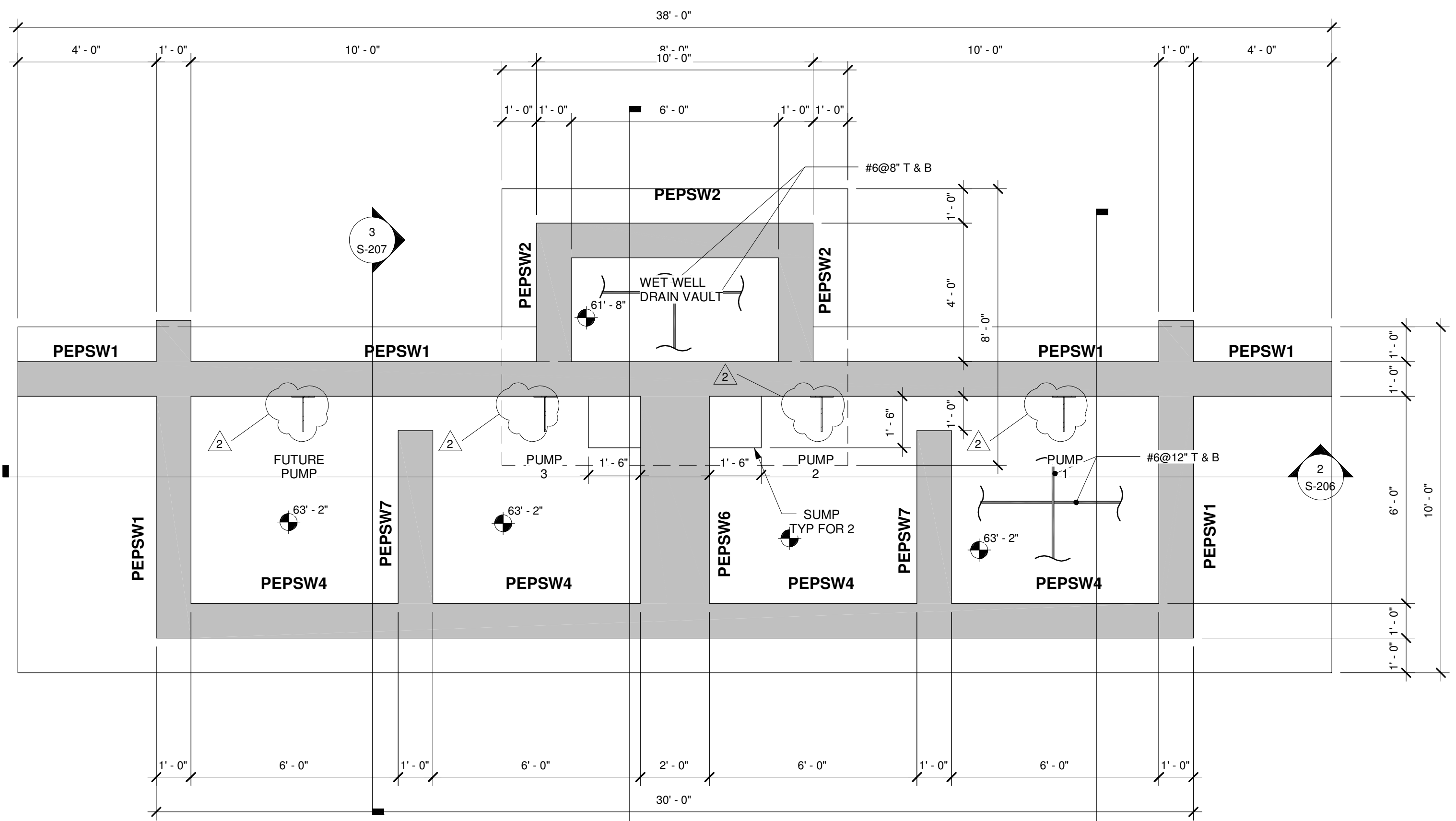
CITY OF MASSILLON  
2013 WWTP IMPROVEMENTS  
MASSILLON, OHIO

ARCHITECTURAL  
PRIMARY EFFLUENT PUMP STATION  
FLOOR AND ROOF PLANS

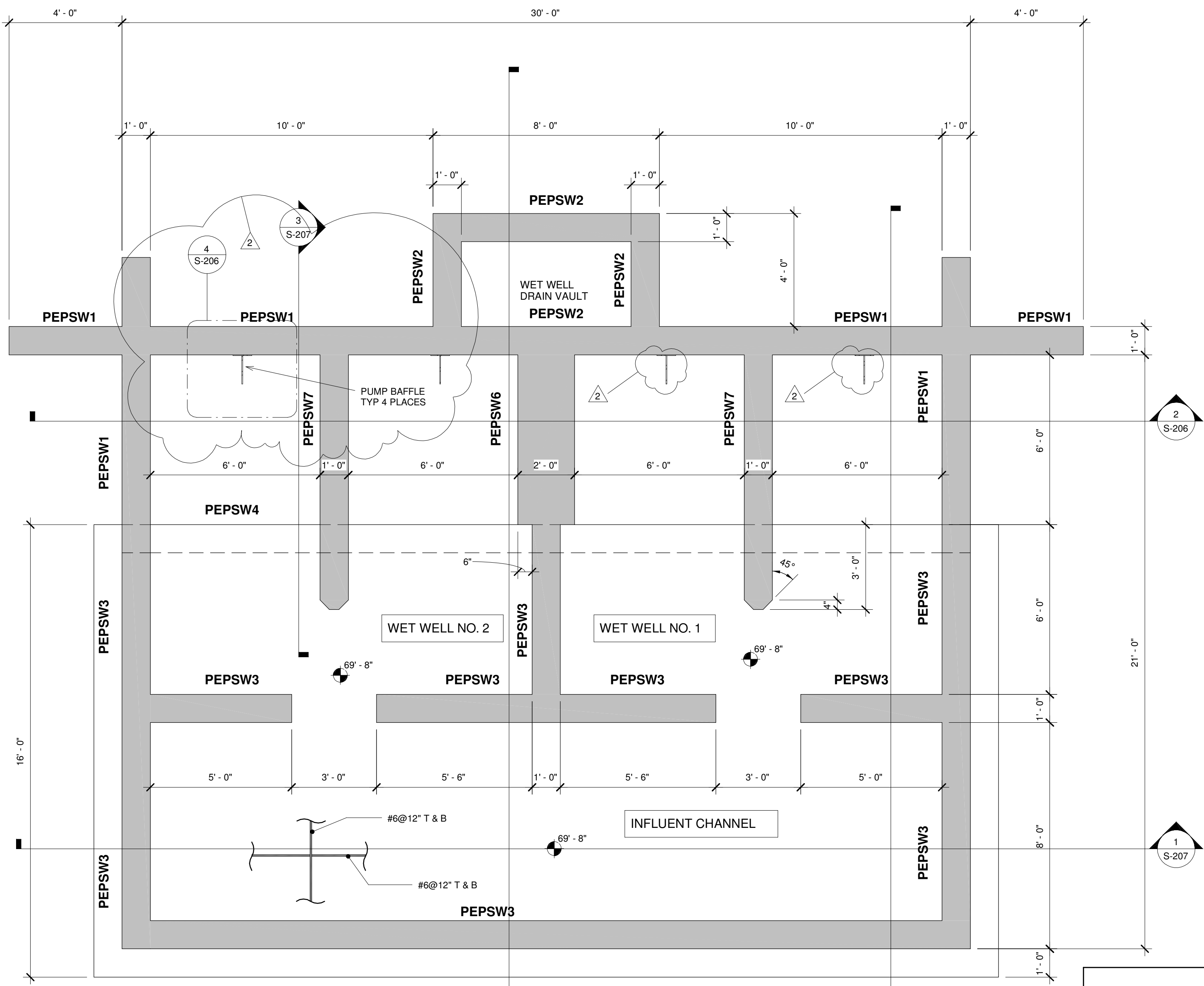
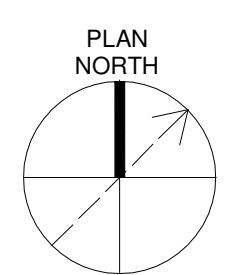
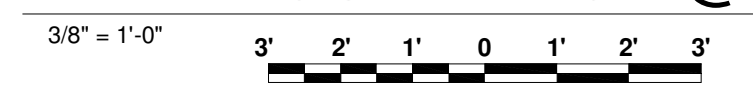
FILE NO.	22374.51633-A201
DATE	MARCH 19, 2015
<b>A-201</b>	

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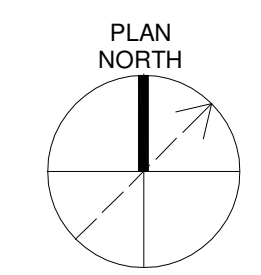
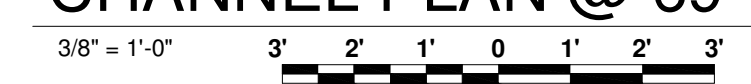
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**WELL FOUNDATION @ 63'-2"**



**CHANNEL PLAN @ 69'-8"**



**PLAN NOTES**  
 1. PEPSW# DESIGNATES PEPS CONCRETE WALLS. SEE CONCRETE WALL REINFORCING SCHEDULE ON SHEET S-010.

**CONSTRUCTION SEQUENCE NOTES**  
 1. AT BIOLOGICAL REACTOR TANKS AND PRIMARY EFFLUENT PUMP STATION, STRUCTURES SHALL BE CONSTRUCTED AND LEAK TESTED PRIOR TO INSTALLING EQUIPMENT, PIPING OR UTILITIES. THESE STRUCTURES ARE ANTICIPATED TO SETTLE APPROXIMATELY 1 TO 3 INCHES DURING CONSTRUCTION AND LEAK TESTING

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1	09/23/2015	ISSUED FOR BID			KGP
0	03/19/2015	ISSUED FOR OEPA REVIEW			KGP

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CITY OF MASSILLON  
 2013 WWTP IMPROVEMENTS  
 MASSILLON, OHIO

STRUCTURAL  
 PRIMARY EFFLUENT PUMP STATION  
**WELL AND CHANNEL PLANS**

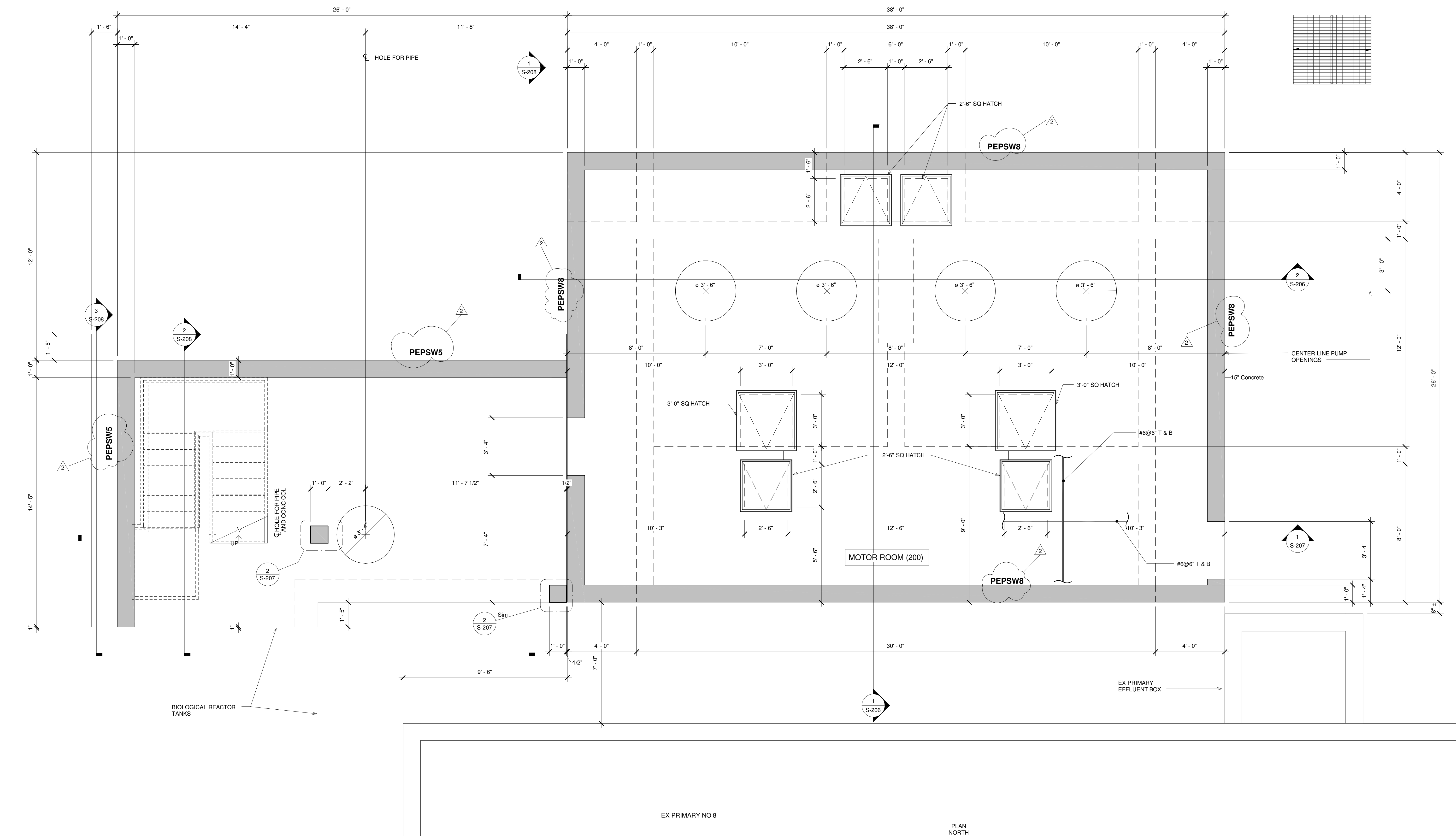
FILE NO.	22374.51633-S202
DATE	MARCH 19, 2015

**S-202**

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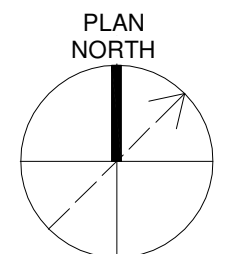


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**MOTOR ROOM FLOOR @ 81'-0"**

3/8" = 1'-0"



PLAN NOTES  
 1. PEPSW# DESIGNATES PEPS CONCRETE WALLS. SEE CONCRETE WALL REINFORCING SCHEDULE ON SHEET S-010.

IN CHARGE OF	WAD			
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DRAWN BY	KGP	NO.	DATE	REVISION
				INT.

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**ENGINEERS, INC.**

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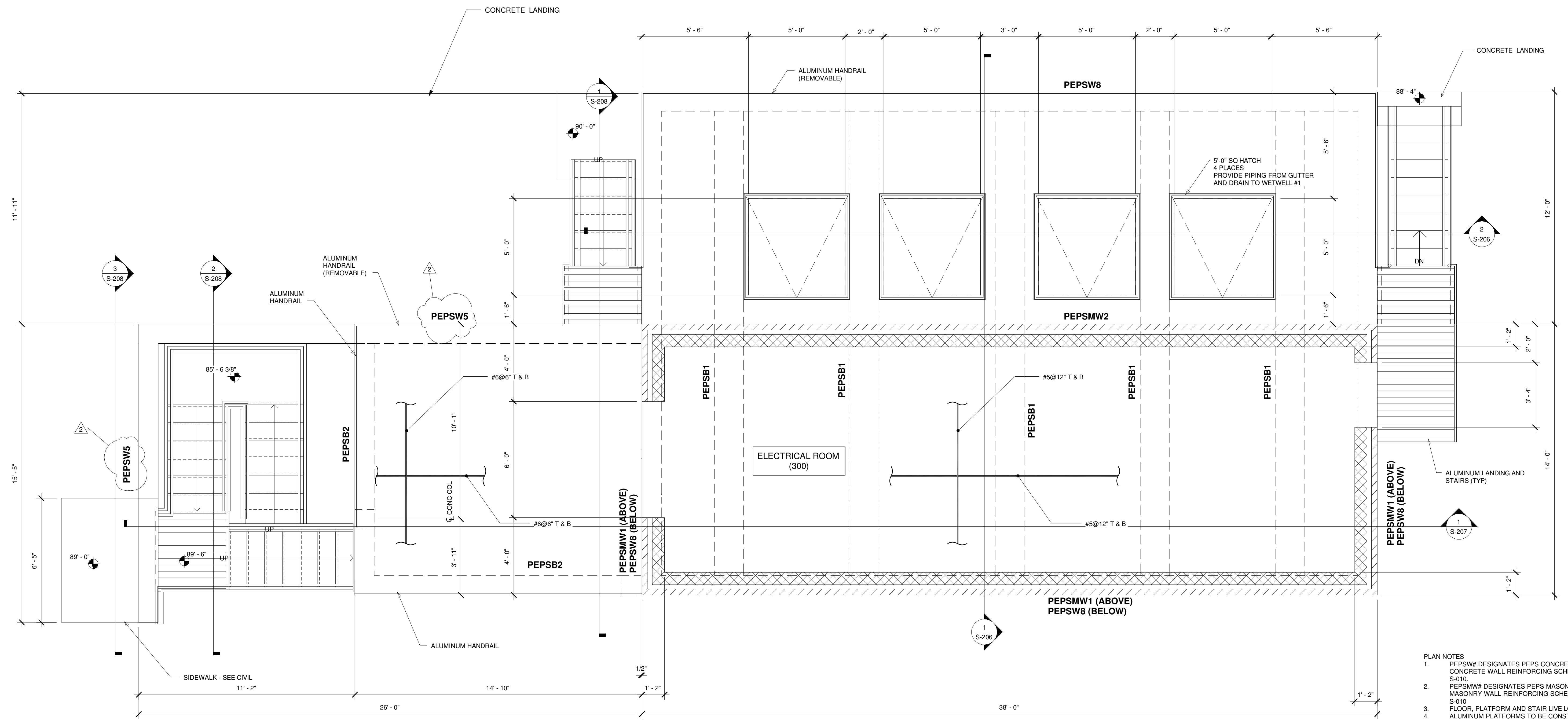
CITY OF MASSILLON  
 2013 WWTP IMPROVEMENTS  
 MASSILLON, OHIO

STRUCTURAL  
 PRIMARY EFFLUENT PUMP STATION  
 MOTOR ROOM FLOOR PLAN

FILE NO.	22374.51633-S203
DATE	MARCH 19, 2015

**S-203**

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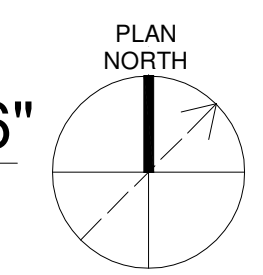
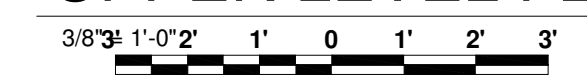
- PLAN NOTES**
- PEPSW# DESIGNATES PEPS CONCRETE WALLS. SEE CONCRETE WALL REINFORCING SCHEDULE ON SHEET S-010.
  - PEPSMW# DESIGNATES PEPS MASONRY WALLS. SEE MASONRY WALL REINFORCING SCHEDULE ON SHEET S-010.
  - FLOOR, PLATFORM AND STAIR LIVE LOAD = 100 PSF
  - ALUMINUM PLATFORMS TO BE CONSTRUCTED FROM C2X4 25'S SPACED 5'-0" MAX AND 1 1/2" PLANKS. POST DOWN OR KNEE BRACE OFF EXISTING STRUCTURE WITH L4X4X5/16

**ALUMINUM PLANK GRATING NOTES**

EXTERIOR APPLICATIONS:  
DIAGONAL (ADA) PUNCHED (OPENINGS AT 3/4" ON CENTER), HEAVY DUTY, ALUMINUM PLANK WITH ALUMINUM OXIDE GRIT COATING FOR SLIP RESISTANCE

STAIR TREADS:  
DIAGONAL (ADA) PUNCHED (OPENINGS AT 3/4" ON CENTER), HEAVY DUTY, ALUMINUM PLANK WITH ALUMINUM OXIDE GRIT COATING FOR SLIP RESISTANCE. STAIRS TREADS SHALL HAVE ALUMINUM NOSINGS WITH ALUMINUM OXIDE COATING FOR SLIP RESISTANCE.

**UPPER LEVEL FLOOR/DECK @ 93'-6"**



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DESIGNED BY	KGP				
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		1	09/23/2015	ISSUED FOR BID	KGP
		0	03/19/2015	ISSUED FOR OEPA REVIEW	KGP
DRAWN BY	KGP				INT.
		NO.	DATE	REVISION	

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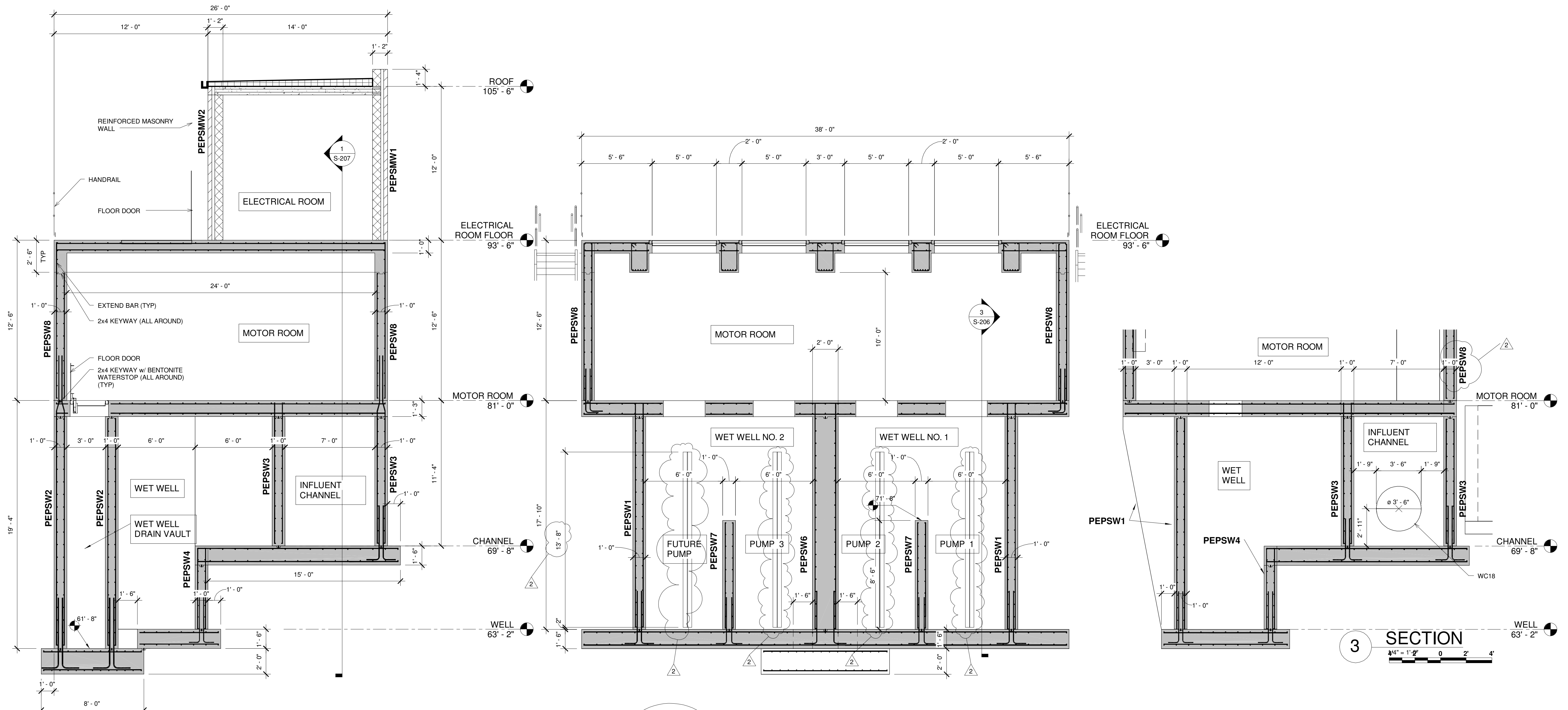
CITY OF MASSILLON  
2013 WWTP IMPROVEMENTS  
MASSILLON, OHIO

STRUCTURAL  
PRIMARY EFFLUENT PUMP STATION  
UPPER LEVEL FLOOR / DECK PLAN

FILE NO.	22374.51633-S204
DATE	MARCH 19, 2015

**S-204**

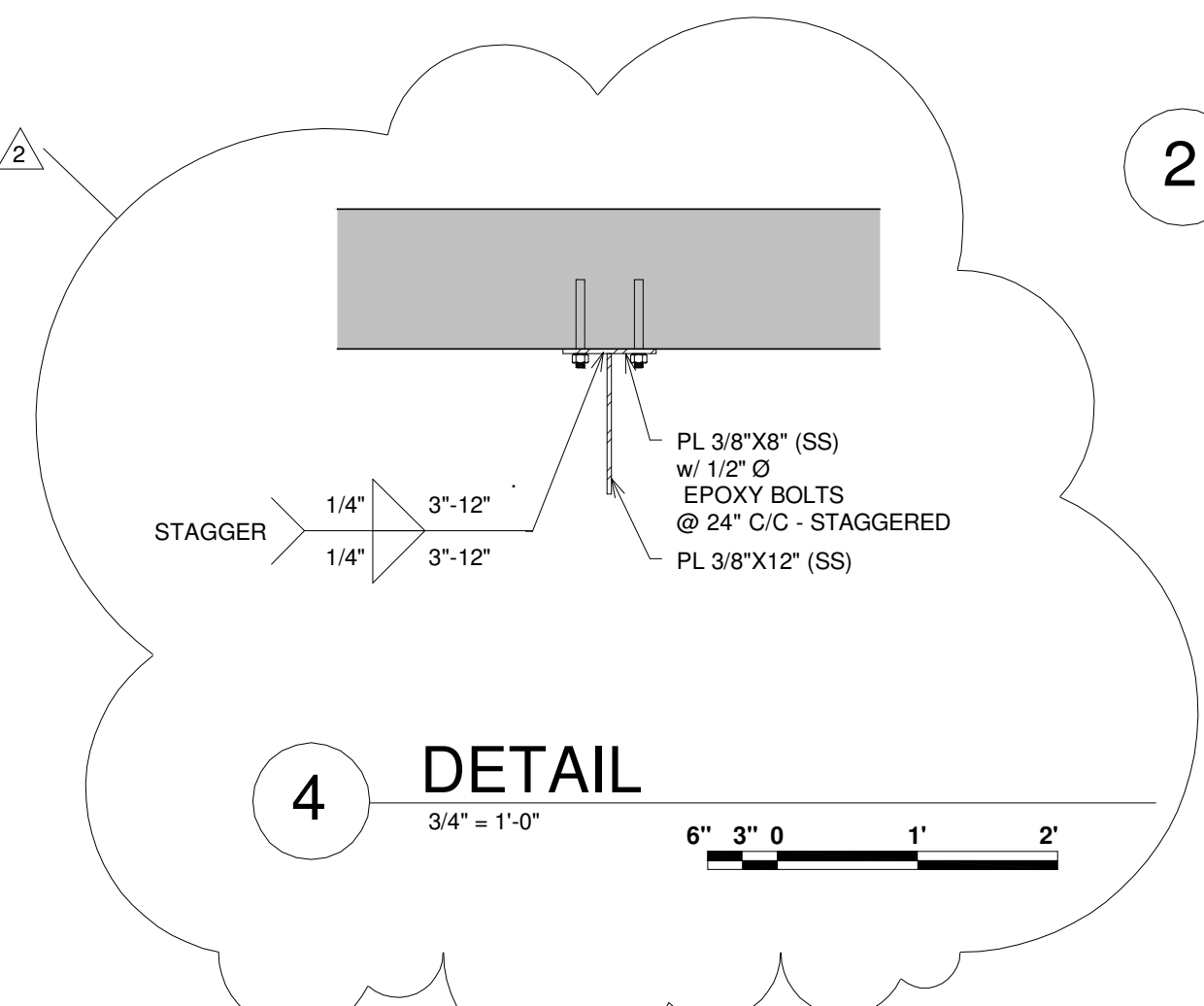
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**1 SECTION**  
1/4" = 1'-0"

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

**3 SECTION**  
3/4" = 1'-2"



**4 DETAIL**  
3/4" = 1'-0"

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IN CHARGE OF	WAD			
DESIGNED BY	KGP			
CHECKED BY	PCC	2	10/23/2015	ADDENDUM NO. 1
DRAWN BY	KGP	1	09/23/2015	ISSUED FOR BID
		0	03/19/2015	ISSUED FOR OEPA REVIEW
		NO.	DATE	REVISION

CTI / O'BRIEN & GERE JOINT VENTURE

220 MARKET AVENUE SOUTH  
SUITE 750  
CANTON, OH 47702

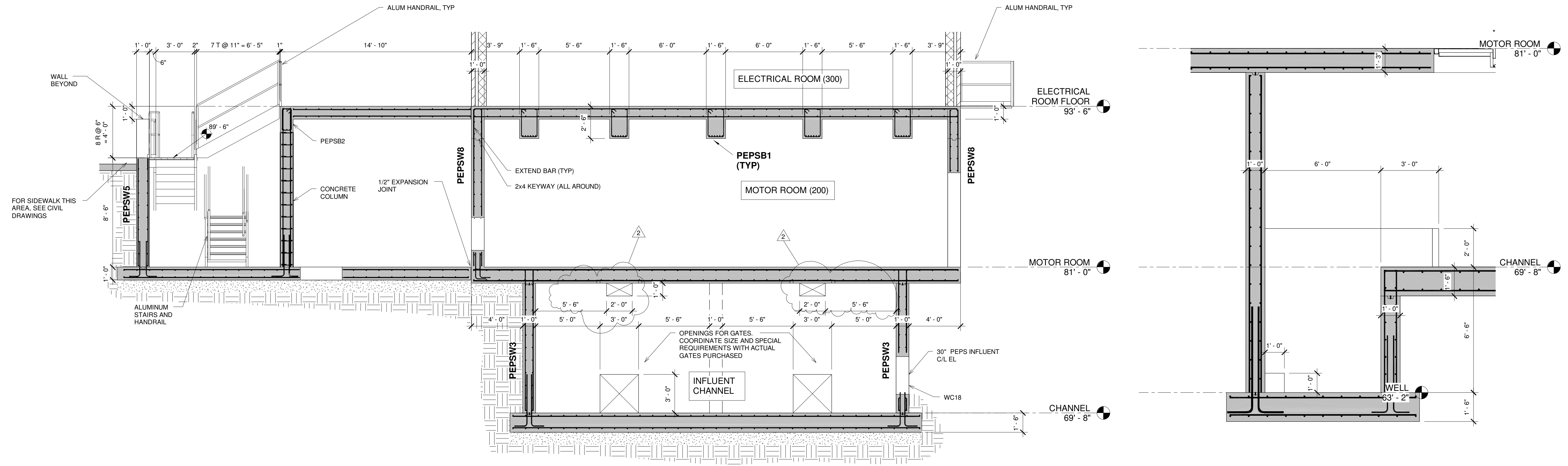
CITY OF MASSILLON  
2013 WWTP IMPROVEMENTS  
MASSILLON, OHIO

STRUCTURAL  
PRIMARY EFFLUENT PUMP STATION  
**SECTIONS**

FILE NO.	22374.51633-S206
DATE	MARCH 19, 2015

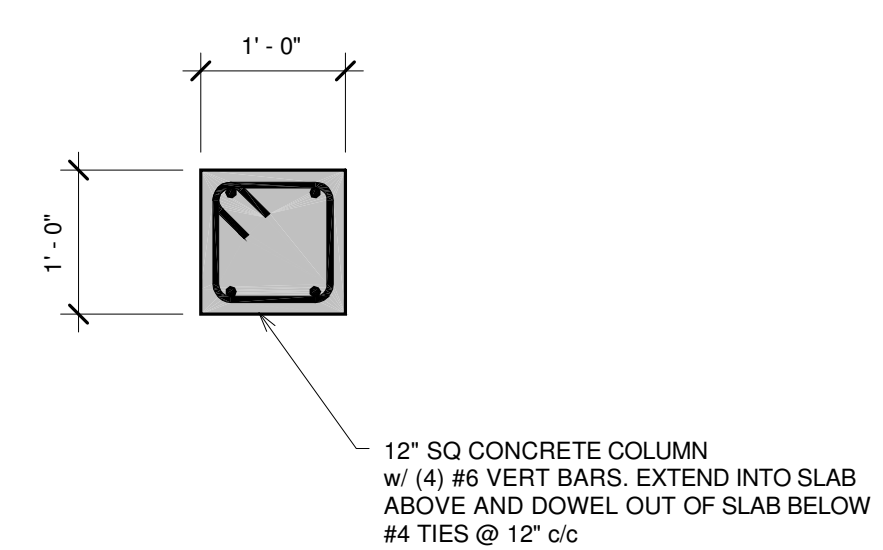
**S-206**

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

**3 SECTION**  
3/8" = 1'-0"  
3' 2' 1' 0' 1' 2' 3'



**2 DETAIL**  
3/4" = 1'-0"  
6' 3' 0' 1' 2'

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IN CHARGE OF	WAD				
DESIGNED BY	KGP				
CHECKED BY	PCC				
DRAWN BY	KGP				
		2	10/23/2015	ADDENDUM NO. 1	KGP
		1	09/23/2015	ISSUED FOR BID	KGP
		0	03/19/2015	ISSUED FOR OEPA REVIEW	KGP
		NO.	DATE	REVISION	INT.

CTI / O'BRIEN & GERE JOINT VENTURE

220 MARKET AVENUE SOUTH  
SUITE 750  
CANTON, OH 47702

CITY OF MASSILLON  
2013 WWTP IMPROVEMENTS  
MASSILLON, OHIO

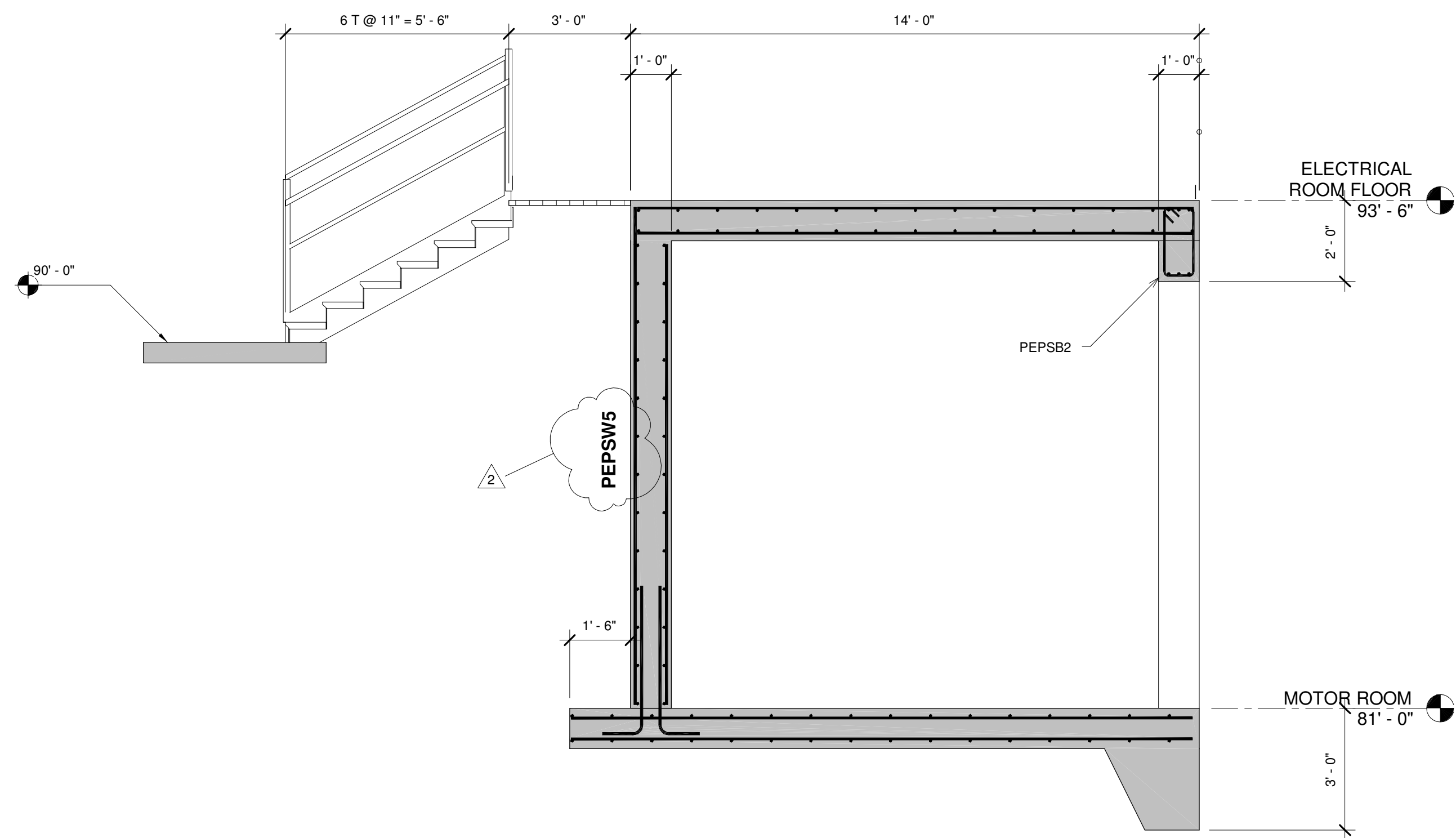
STRUCTURAL  
PRIMARY EFFLUENT PUMP STATION  
SECTIONS

FILE NO.	22374.51633-S207
DATE	MARCH 19, 2015

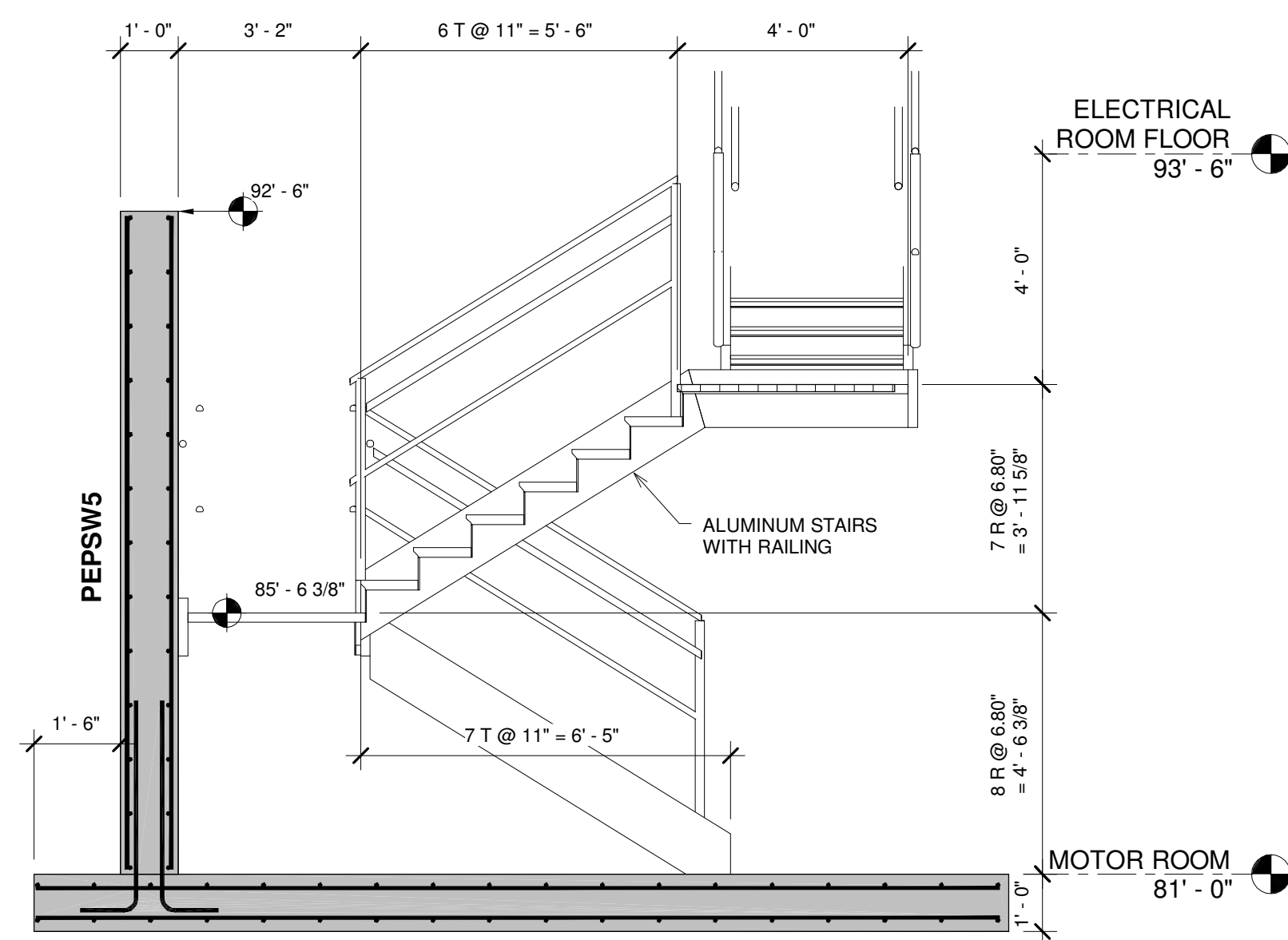
S-207

\\s.canton\IE\4007 Massillon WWTP Improvements\DWG\Revit\Structural (CTI)\51633-STRU-PEPS.rvt

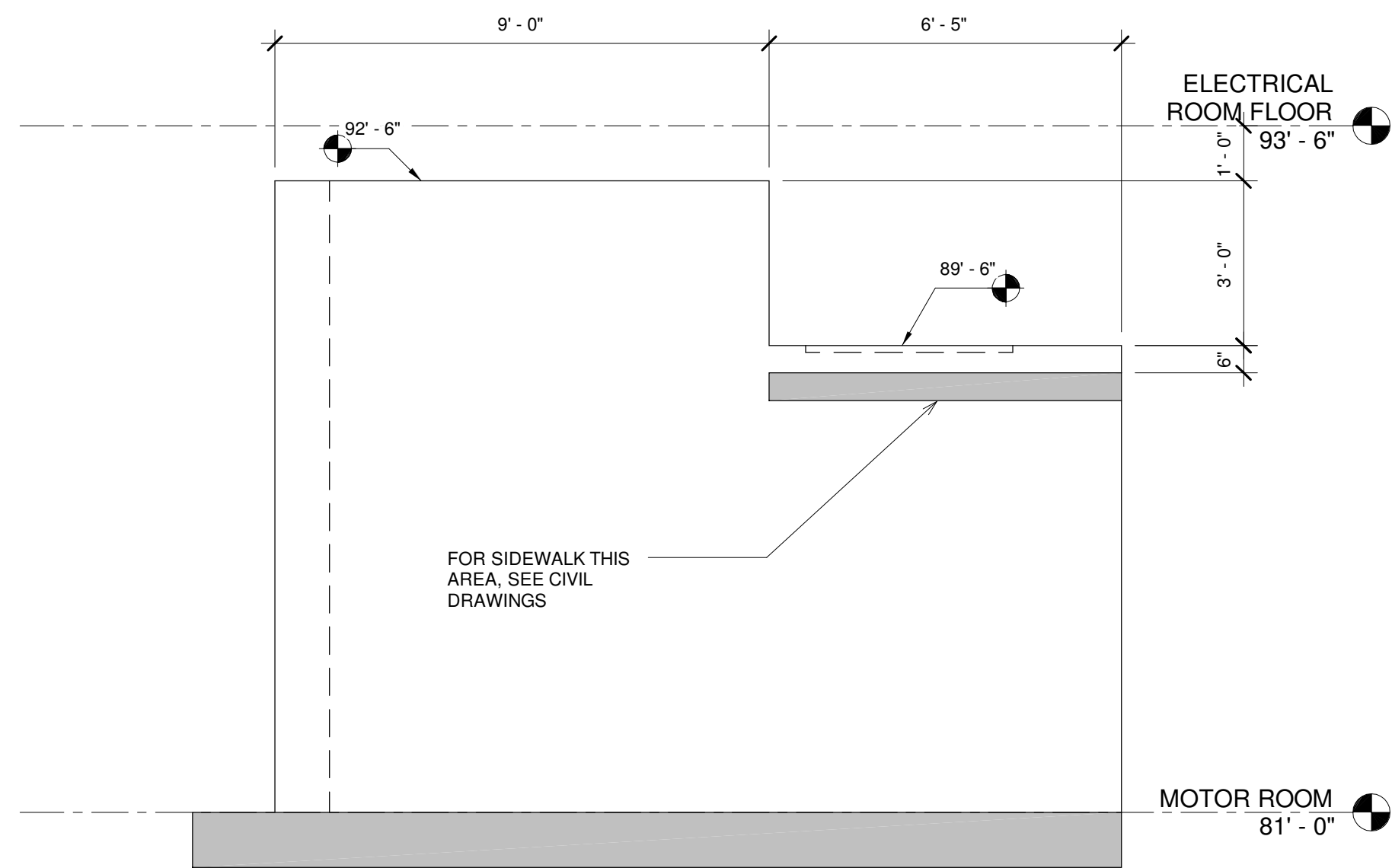
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**1 SECTION**  
 3/8" = 1'-0"  
 3' 2' 1' 0' 1' 2' 3'



**2 SECTION**  
 3/8" = 1'-0"  
 3' 2' 1' 0' 1' 2' 3'



**3 SECTION**  
 3/8" = 1'-0"  
 3' 2' 1' 0' 1' 2' 3'

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IN CHARGE OF	WAD				
DESIGNED BY	KGP				
CHECKED BY	PCC	2	10/23/2015	ADDENDUM NO. 1	KGP
DRAWN BY	KGP	0	09/23/2015	ISSUED FOR BID	KGP
		NO.	DATE	REVISION	INT.

CTI / O'BRIEN & GERE JOINT VENTURE



220 MARKET AVENUE SOUTH  
 SUITE 750  
 CANTON, OH 47702

CITY OF MASSILLON  
 2013 WWTP IMPROVEMENTS  
 MASSILLON, OHIO

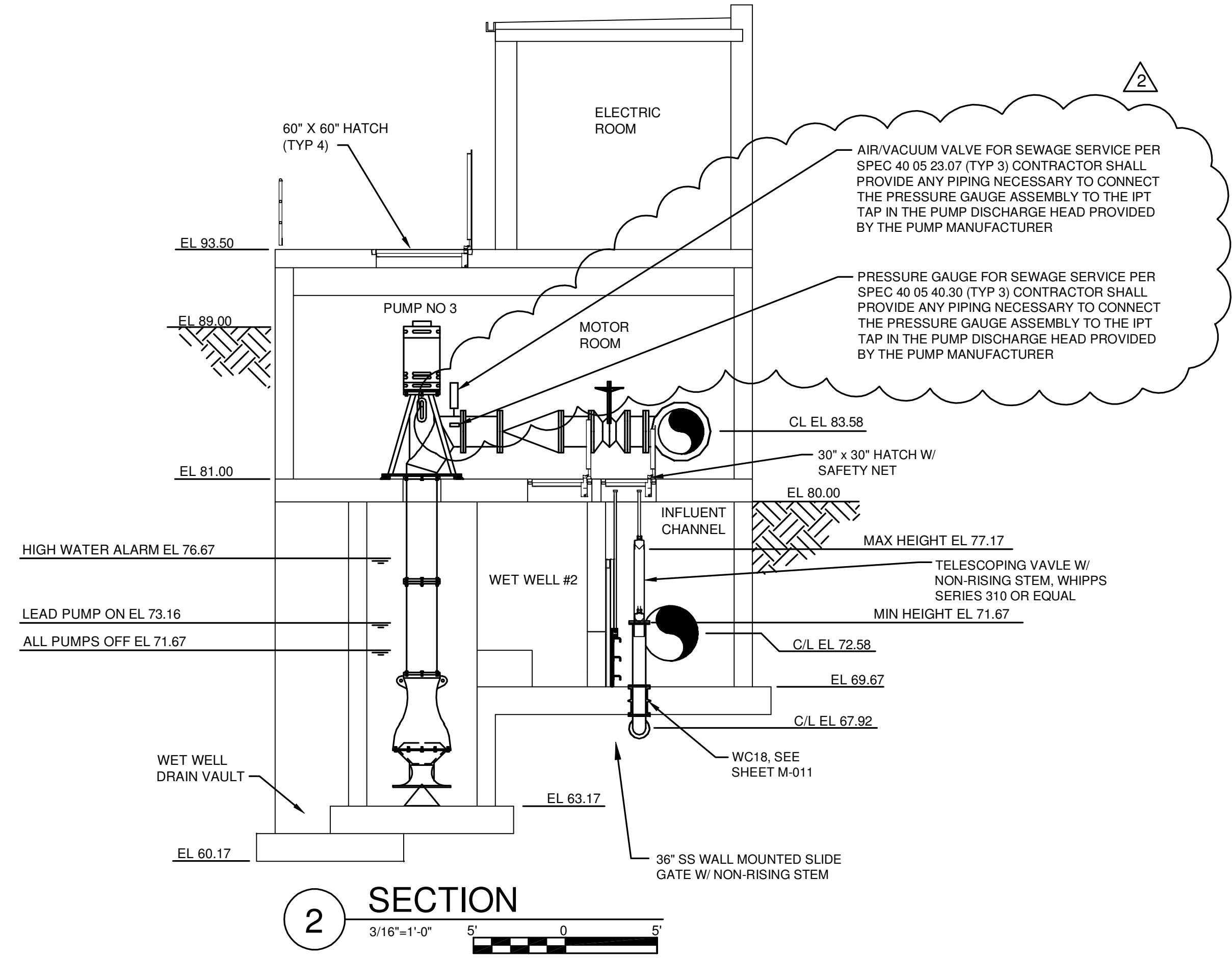
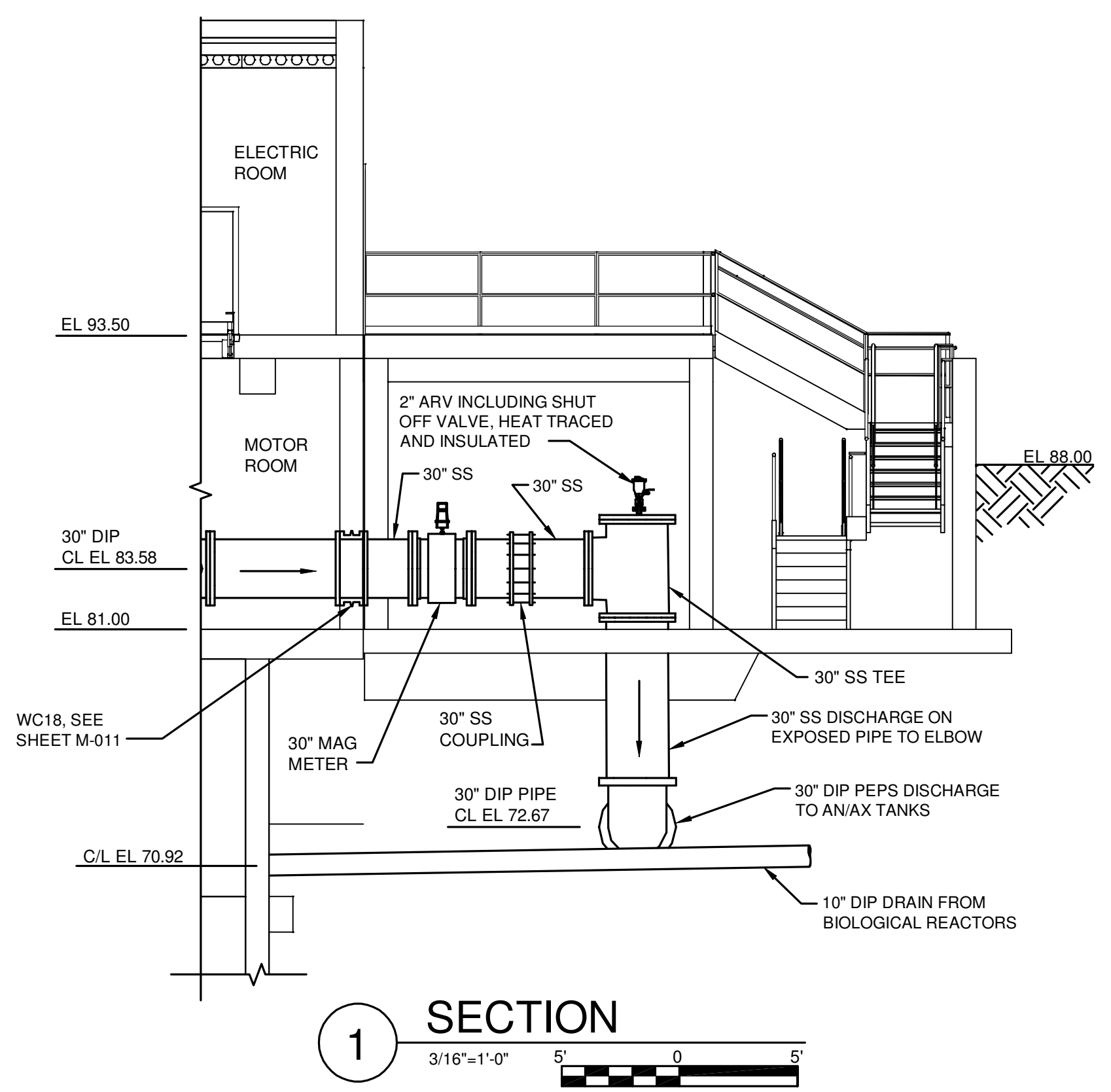
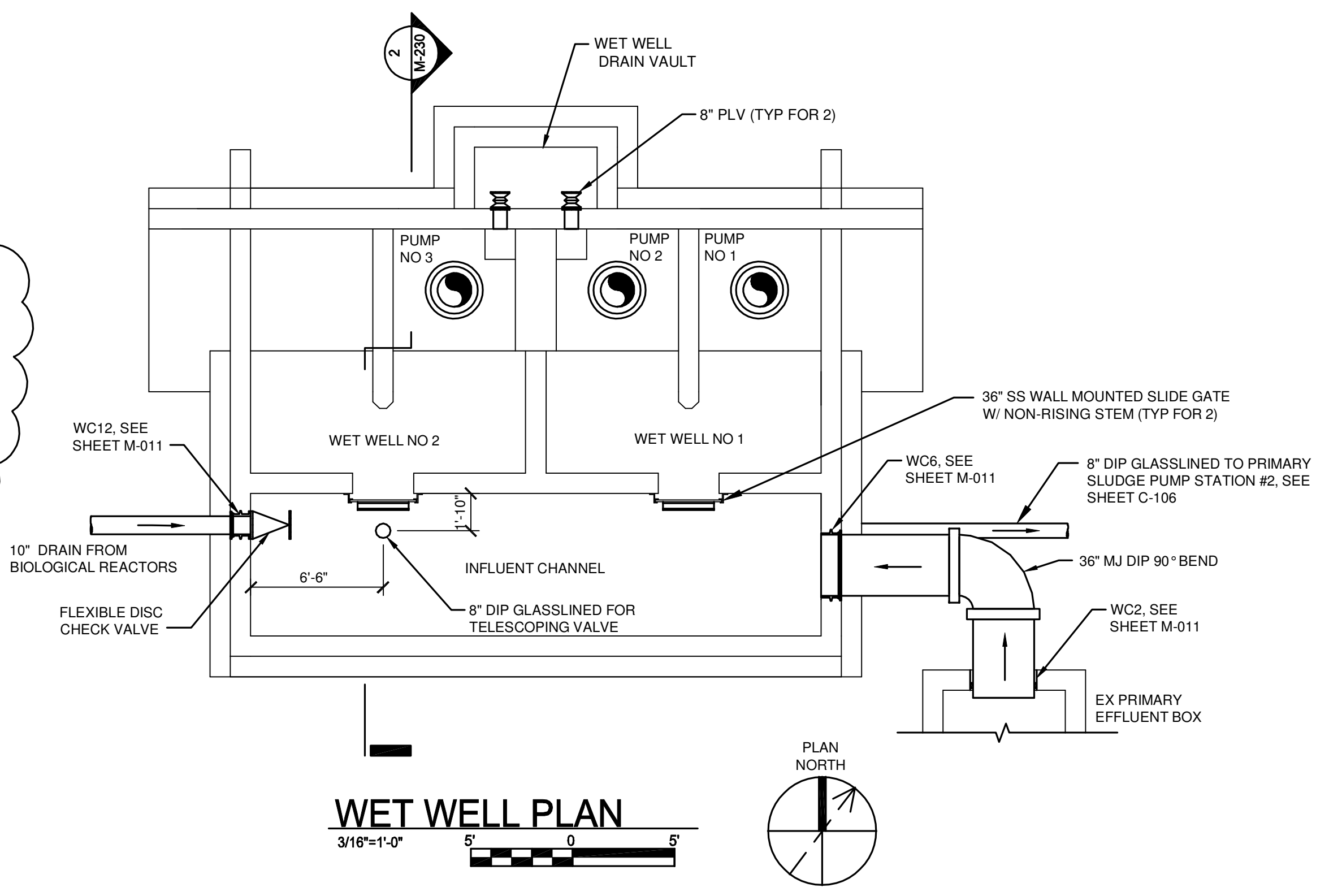
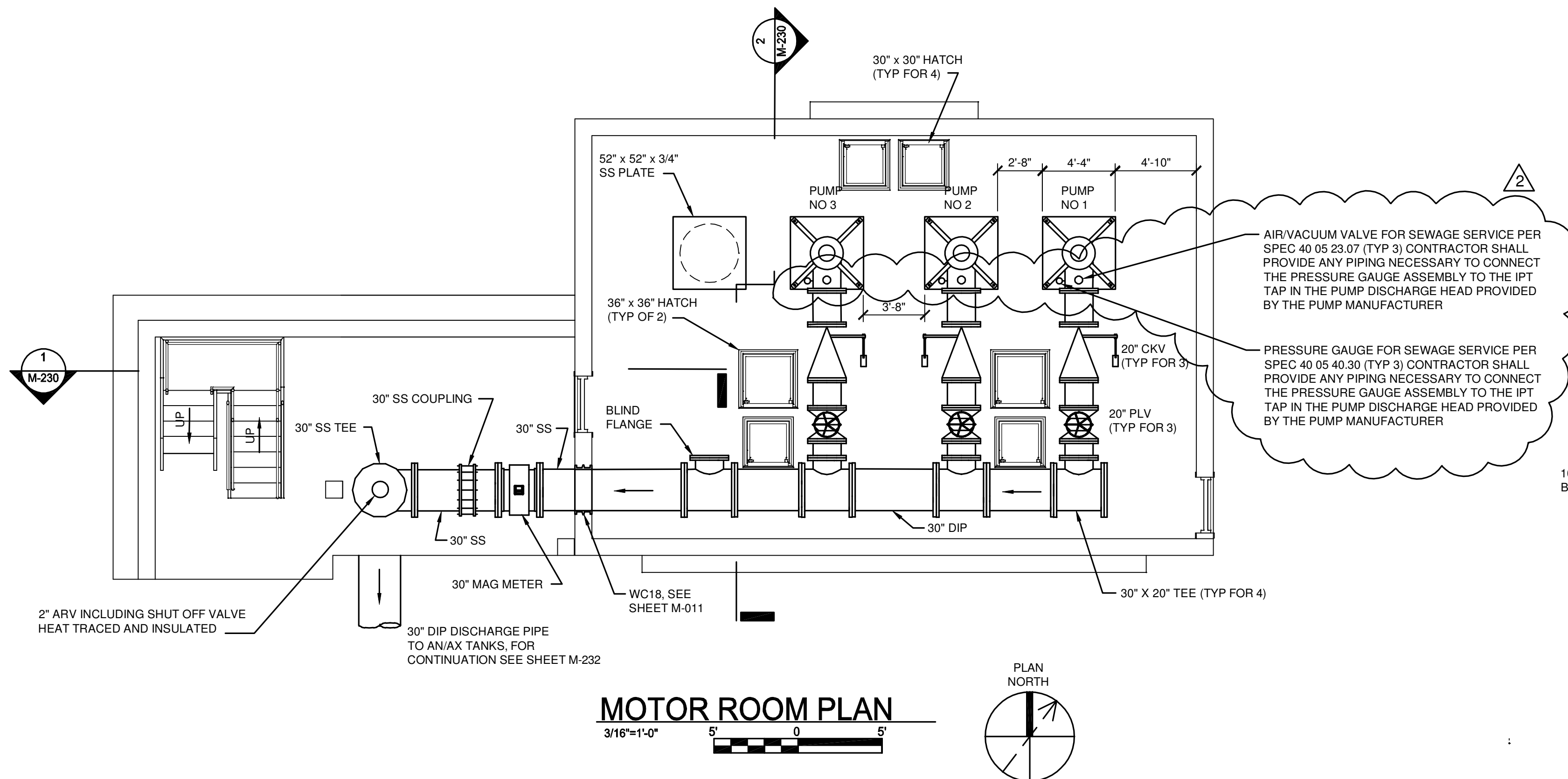
STRUCTURAL  
 PRIMARY EFFLUENT PUMP STATION  
 SECTIONS

FILE NO.	22374.51633-S208
DATE	MARCH 19, 2015

S-208



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NOTE:  
CONTRACTOR TO IDENTIFY AND PROPOSE SPECIFIC PIPING SUPPORTS AND SUBMIT AS SHOP DRAWING. ALL PIPES TO BE SUPPORTED FROM FLOOR. SEE DETAIL M-013 ON SHEET M-004.

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IN CHARGE OF	WAD				
DESIGNED BY	DBK				
CHECKED BY	RWR	2	10/23/2015	ADDENDUM NO. 1	RWR
DRAWN BY	JAM	1	09/23/2015	ISSUED FOR BID	RWR
		0	03/19/2015	ISSUED FOR OEPA REVIEW	RWR
		NO.	DATE	REVISION	INT.

CTI / O'BRIEN & GERE JOINT VENTURE

220 MARKET AVENUE SOUTH  
SUITE 750  
CANTON, OH 47702

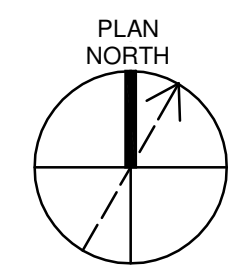
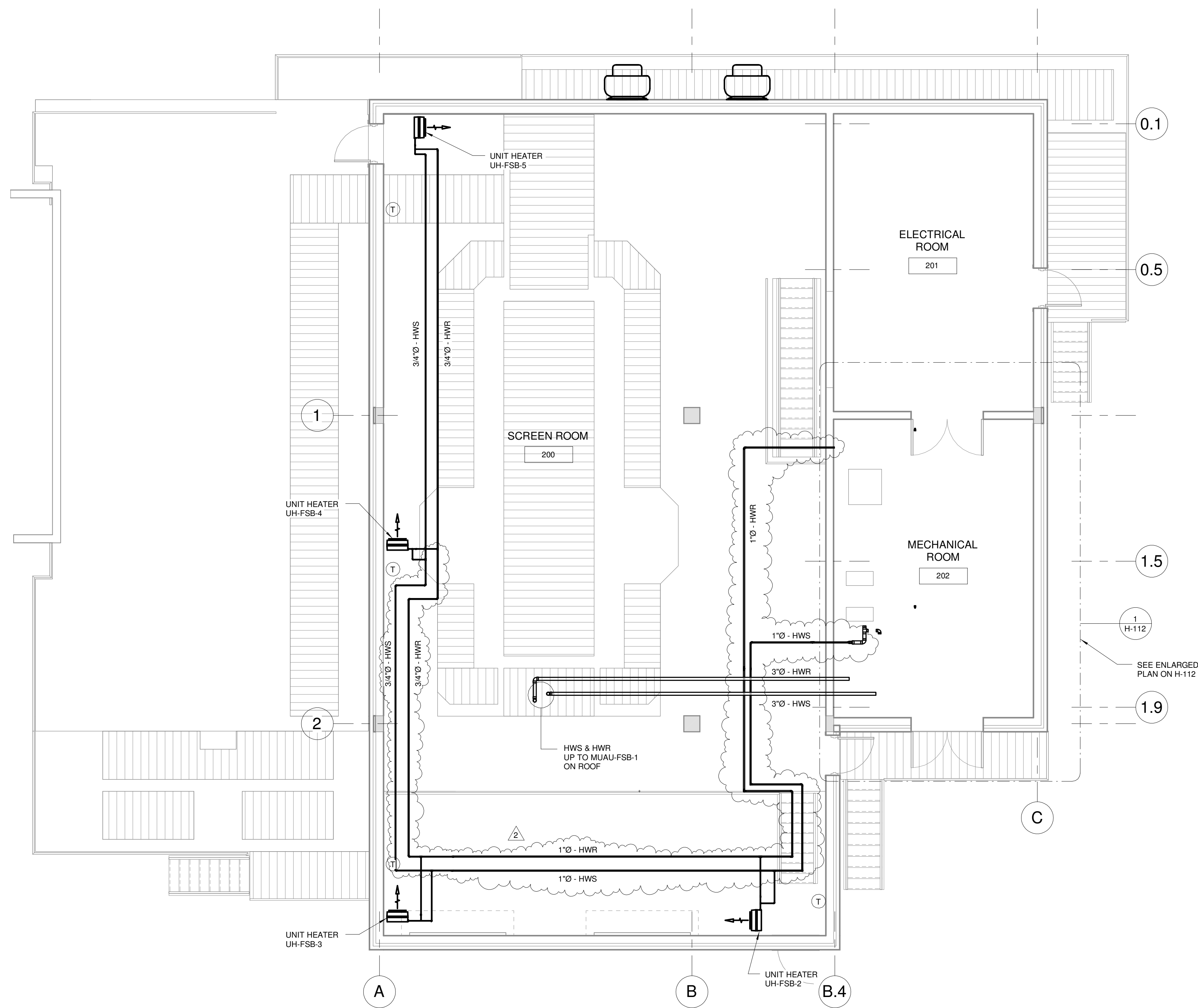
CITY OF MASSILLON  
2013 WWTP IMPROVEMENTS  
MASSILLON, OHIO

MECHANICAL  
PRIMARY EFFLUENT PUMP STATION  
PLANS AND SECTIONS

FILE NO.	23374.51633 - M230
DATE	MARCH 19, 2015
<b>M-230</b>	



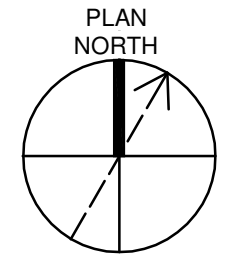
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**NOTES:**  
1. REFER TO H-116 FOR PIPING SCHEMATIC.

**PLAN**

3/16" = 1'-0"  
5' 0 5'



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IN CHARGE OF	DL				
DESIGNED BY	HTN				
CHECKED BY	JPW				
DRAWN BY	KJL				
		2	10/23/2015	ADDENDUM NO.1	DL
		1	09/23/2015	ISSUED FOR BID	DL
		0	03/19/2015	ISSUED FOR OEPA REVIEW	DL
		NO.	DATE	REVISION	INT.

CTI / O'BRIEN & GERE JOINT VENTURE  
  
**O'BRIEN & GERE**  
 220 MARKET AVENUE SOUTH  
 SUITE 750  
 CANTON, OH 47702

CITY OF MASSILLON  
 2013 WWTP IMPROVEMENTS  
 MASSILLON, OHIO

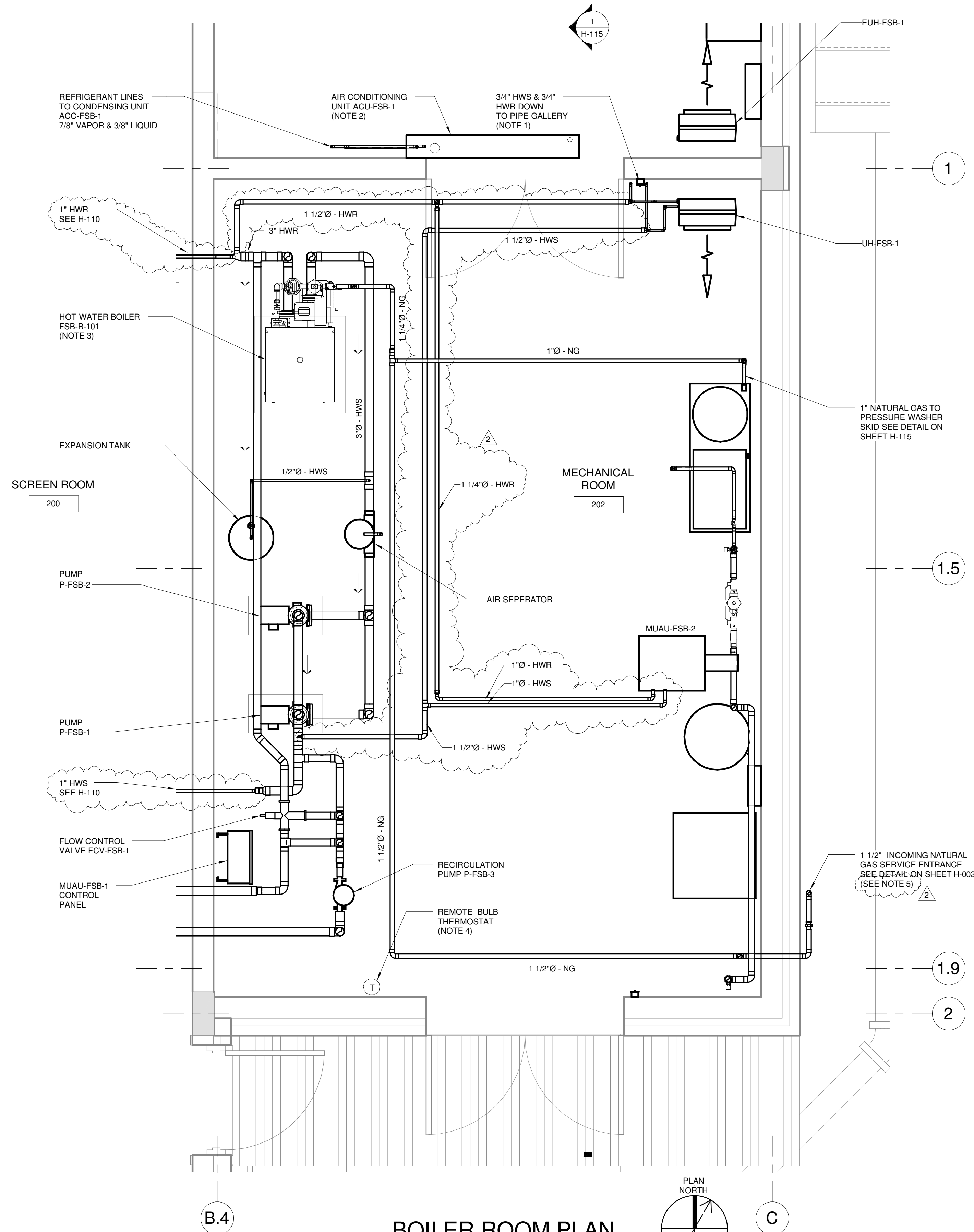
HVAC  
 FINE SCREENING BUILDING  
**PIPING PLAN**

FILE NO.	23374.51633- H110
DATE	SEPT. 23, 2015

**H-110**

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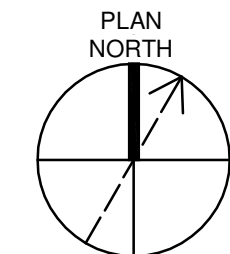
- NOTES:**
1. SEAL WALL AND FLOOR PENETRATIONS GAS-TIGHT. SEE H-108 FOR CONTINUATION.
  2. PIPE CONDENSATE DRAIN THROUGH BOILER ROOM WALL AND TERMINATE AT FLOOR LEVEL NEAR DRAIN BEHIND BOILER.
  3. REFER TO PIPING SCHEMATIC ON SHEET H-116.
  4. SENSING OUTDOOR AIR TEMPERATURE. PROVIDE WITH WEATHER TIGHT SHIELD.
  5. NATURAL GAS REGULATOR CAPACITY SHALL BE 2,000 CFH, WITH UPSTREAM PRESSURE 15 PSIG, AND DOWNSTREAM PRESSURE 7 TO 14 INCHES WATER COLUMN

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**BOILER ROOM PLAN**

1/2" = 1'-0"



IN CHARGE OF	DL				
DESIGNED BY	HTN				
CHECKED BY	JPW	2	10/23/2015	ADDENDUM NO.1	DL
DRAWN BY	KJL	1	09/23/2015	ISSUED FOR BID	DL
		0	03/19/2015	ISSUED FOR OEPA REVIEW	DL
		NO.	DATE	REVISION	INT.

CTI / O'BRIEN & GERE JOINT VENTURE

**O'BRIEN & GERE**  
 220 MARKET AVENUE SOUTH  
 SUITE 750  
 CANTON, OH 47702

CITY OF MASSILLON  
 2013 WWTP IMPROVEMENTS  
 MASSILLON, OHIO

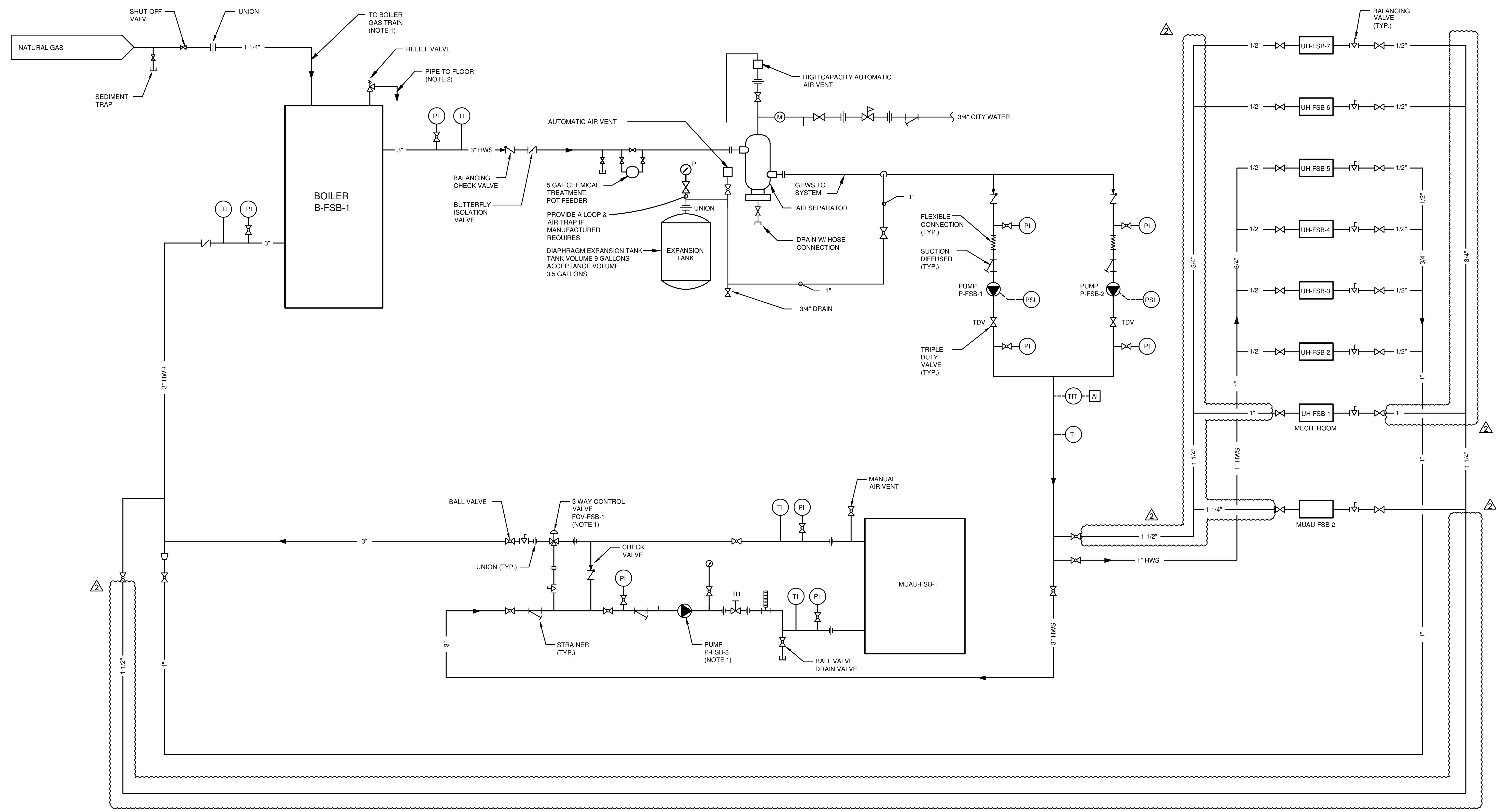
HVAC  
 FINE SCREENING BUILDING  
**ENLARGED BOILER ROOM PLAN**

FILE NO.	23374.51633- H112
DATE	SEPT. 23, 2015

H-112

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**NOTE:**  
 1. PROVIDE DRIP LEG UPSTREAM OF GAS TRAIN.  
 2. DISCHARGE NEAR FLOOR DRAIN.

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IN CHARGE OF	DL				
DESIGNED BY	SWM				
CHECKED BY	JPW	2	10/23/2015	ADDENDUM NO.1	DL
DRAWN BY	KJL	1	09/23/2015	ISSUED FOR BID	DL
		0	03/19/2015	ISSUED FOR OEPA REVIEW	DL
		NO.	DATE	REVISION	INT.

CTI / O'BRIEN & GERE JOINT VENTURE  
**O'BRIEN & GERE**  
 220 MARKET AVENUE SOUTH  
 SUITE 750  
 CANTON, OH 47702

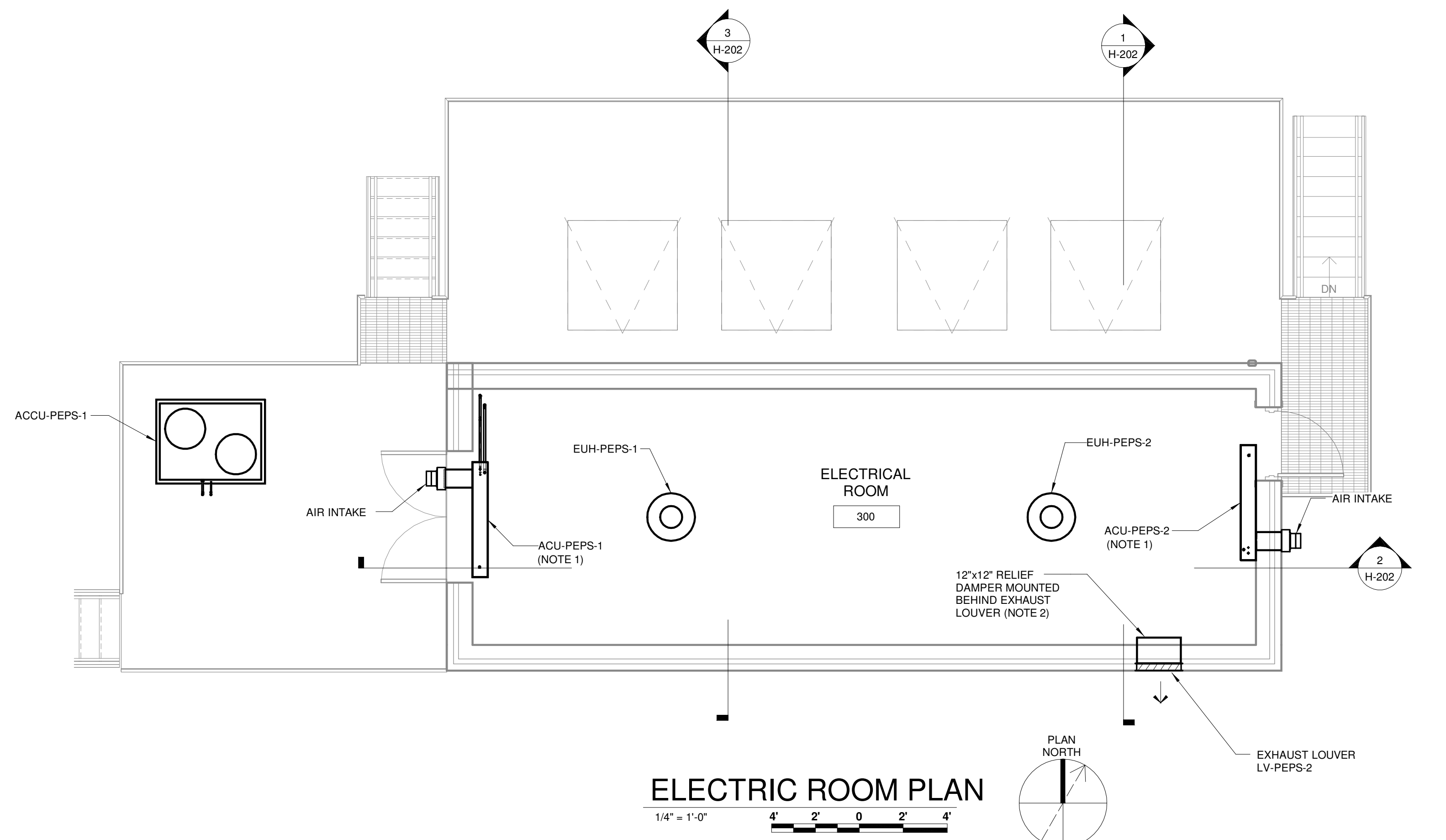
CITY OF MASSILLON  
 2013 WWTP IMPROVEMENTS  
 MASSILLON, OHIO

HVAC  
 FINE SCREENING BUILDING  
**HYDRONIC PIPING SCHEMATIC**

FILE NO.	23374.51633 -H116
DATE	SEPT. 23, 2015
<b>H-116</b>	

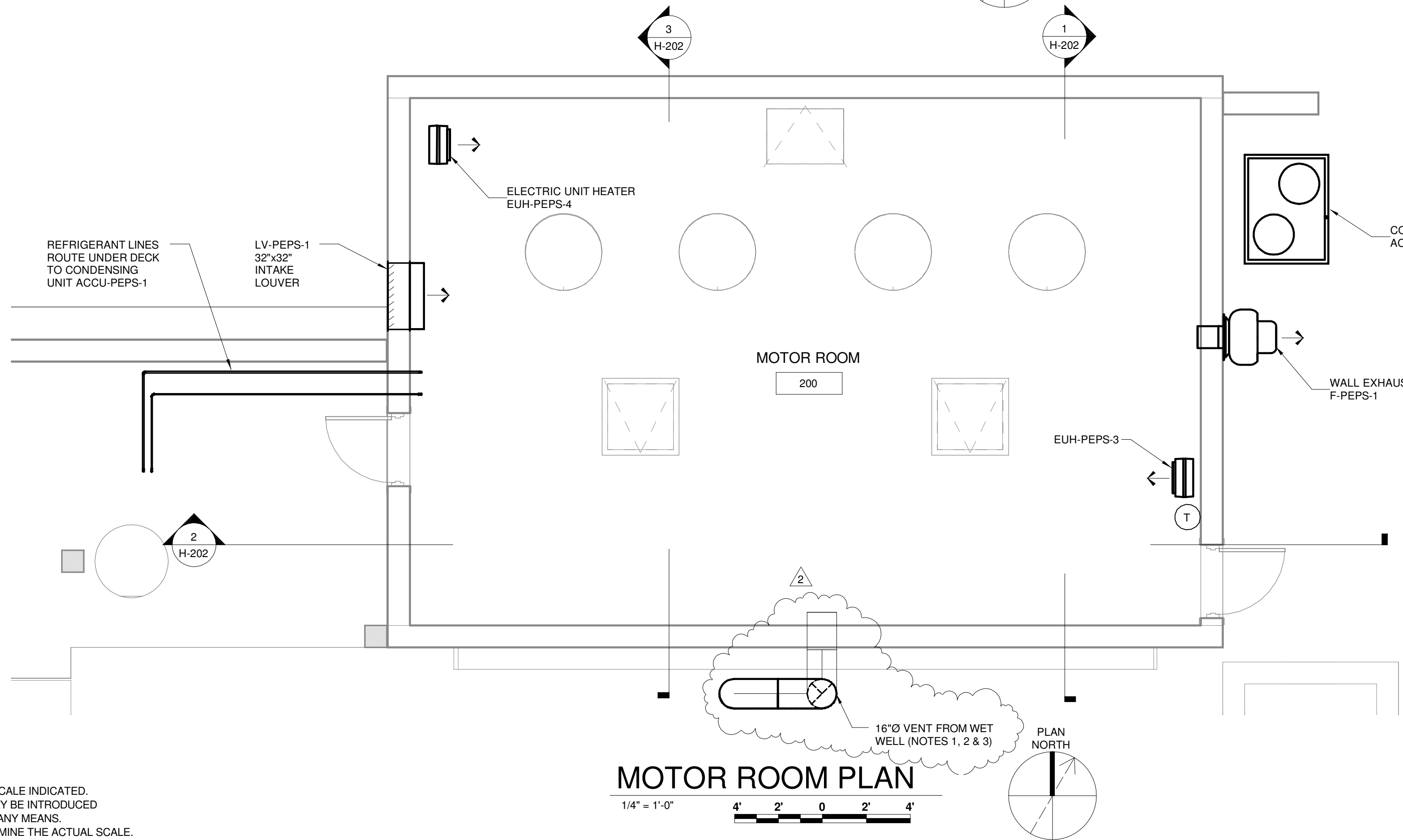
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**NOTES:**

1. PROVIDE REFRIGERANT LINES ROUTED TO CONDENSING UNIT. PROVIDE CONDENSATE DRAIN ROUTED TO EXTERIOR NEAR FLOOR LEVEL.
2. RELIEF DAMPER SHALL OPEN AT 0.1" WC MAXIMUM.



**NOTES:**

1. PROVIDE WET WELL WALL PENETRATION AT TOP OF PIPE EL. 7'9"-6"± PROVIDE FRP WALL CASTING.
2. TERMINATE WITH GOOSENECK AND STAINLESS STEEL BIRD SCREEN. VENT OPENING SHALL BE AT 3'-0" ABOVE FINISHED GRADE.
3. VENT SHALL BE FRP PIPE. ABOVE GRADE PIPE SHALL BE PAINTED WHITE.

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IN CHARGE OF	DL				
DESIGNED BY	HTN				
CHECKED BY	JPW	2	10/23/2015	ADDENDUM NO.1	DL
DRAWN BY	KJL	1	09/23/2015	ISSUED FOR BID	DL
		0	03/19/2015	ISSUED FOR OEPA REVIEW	DL
		NO.	DATE	REVISION	INT.

CTI / O'BRIEN & GERE JOINT VENTURE

**O'BRIEN & GERE**  
220 MARKET AVENUE SOUTH  
SUITE 750  
CANTON, OH 47702

CITY OF MASSILLON  
2013 WWTP IMPROVEMENTS  
MASSILLON, OHIO

HVAC  
PRIMARY EFFLUENT PUMP STATION  
**PLANS**

FILE NO.	23374.51633- H201
DATE	SEPT. 23, 2015

H-201

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**CITY OF MASSILLON  
2013 WASTEWATER TREATMENT PLANT  
REMOVAL IMPROVEMENTS PROJECT**

**PRE-BID MEETING AGENDA - CHECK LIST  
October 19, 2015 , 10:00 a.m.**

- I. Sign-in Sheet (Required)
- II. Introduction of City and CTI/OBG staff
- III. General Project Overview
  - a. OBG Bid Plan Website
  - b. Pre-purchased Equipment
    1. Section 46 53 33.11 IFAS Equipment
    2. Section 43 21 13.31.1 PEPS VTSH pumps
  - c. Construction Schedule
  - d. Bid opening date, November 6,2015 at the City Hall Annex, 151 Lincoln Way East, Massillon, Ohio 44646 until 2:00 p.m. local time.
  - e. Prevailing Wages
  - f. WWTP Continuous Operation and Treatment
  - g. DBE Requirements
- IV. Last date for receipt of written questions is October 30, 2015
- V. General Information
- VI. Questions
- VII. Comments from Staff
- VIII. Any additional questions about the plans and specifications should be directed to CTI/OBG Joint Venture Project Manager, Bill Dorman, at [2013 Massillon WWTP@ctiengr.com](mailto:2013 Massillon WWTP@ctiengr.com)
- IX. Site Tours (self-guided)

**CITY OF MASSILLON  
2013 WASTEWATER TREATMENT PLANT  
IMPROVEMENTS PROJECT**

**PRE-BID MEETING SIGN-UP SHEET  
October 19, 2015, 10:00 a.m.**

	NAME	REPRESENTING	EMAIL ADDRESS & PHONE NUMBER	CHECK IF REGISTERED PLAN HOLDER
1.	JERRY WRIGHT BILL WALSH	ABBOTT ELECTRIC ABBOTT ELECTRIC	jerryw@abbott electric.com bill@abbott electric.com	✓ ✓
2.	Austin Myers	Abbott Electric	Austin M@AbbottElectric.com	✓
3.	Kevin Hall	ABBOTT ELECTRIC	KevinH@Abbott Electric.com	
4.	Matt White	Walsh	mwhite@walshgroup.com 937.673.4101	✓
5.	Brandon Kruse	Const. Support Solutions PBE/FAGE	brandon.kruse@ construction-support- solutions.com	
6.	Bill Meinert	DBG (CTI/OB&JV)	Bill.Meinert@obj.com	✓
7.	Rick Reed	CTI (CTI/OB&JV)	RREED@CTIENG.COM	✓
8.	Bill Durman	CTI (CTI/OB&JV)	WDURMAN@CTIENG.COM	✓
9.				
10.				
11.				
12.				
13.				



## CITY OF MASSILLON 2013 WASTEWATER TREATMENT PLANT IMPROVEMENTS PROJECT

### PRE-BID MEETING SIGN-UP SHEET October 19, 2015, 10:00 a.m.

	NAME	REPRESENTING	EMAIL ADDRESS & PHONE NUMBER	CHECK IF REGISTERED PLAN HOLDER
1.	Jason Axelson	Standard Plumbing + Heating	Jason.A@standardplumbing.com 330-453-9191	
2.	Tom Marks	WALSH CONST.	mark@walshgroup.com 313-456-4565	
3.	DAN NASH	WALSH CONST.	DWNASH@WALSHGROUP.COM 313-456-6500	
4.	MIKE NASH	WALSH	313-218-3428 mnash@walshgroup.com	✓
5.	Don Houston	LOCKHART CONCRETE	R. SWARTZ @LOCKHARTCOMPANIES.COM 330-745-6520	
6.	STEVE FIFE	DICKEY	330-5219-3976	
7.	BRIAN FRASONE	WWTP		
8.				
9.				
10.				
11.				
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13.				

**CITY OF MASSILLON  
2013 WASTEWATER TREATMENT PLANT  
IMPROVEMENTS PROJECT**

**PRE-BID MEETING SIGN-UP SHEET  
October 19, 2015, 10:00 a.m.**

	NAME	REPRESENTING	EMAIL ADDRESS & PHONE NUMBER	CHECK IF REGISTERED PLAN HOLDER
1.	Adam Wiebe	Shook Const	awiebe@shook-construction.com 440-838-5400	✓
2.	Mike Savko	Prout Boiler	msavko@prout-boiler.com 330-301-8515	✓
3.	MIKE LONG	D&A PLBS	MIKE@CROWN-BOILER.COM 330-499-8733	
4.	JOE FRIEDMAN	Kauffman AG-4 HTR	JOE@KAUFFMAN-PLUMBING.COM 330-453-9103	✓
5.	Jim Friedman	Kauffman	Jim@kauffman-plumbing.com	—
6.	TED DREYER	GARDINER/ BRYAN Boiler	tdreyer@whgavdiner.com 444 243 3400	—
7.	Chris Manners	Rovisy's	Chris.manners@rovisy.com 330-603-0343	
8.				
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11.				
12.				
13.				



**CITY OF MASSILLON  
2013 WASTEWATER TREATMENT PLANT  
IMPROVEMENTS PROJECT**

**PRE-BID MEETING SIGN-UP SHEET  
October 19, 2015, 10:00 a.m.**

	NAME	REPRESENTING	EMAIL ADDRESS & PHONE NUMBER	CHECK IF REGISTERED PLAN HOLDER
1.	RICH STUMMER	DAMAN SUPERIOR	RSTUMMER@DAMANSUPERIOR.COM	
2.	GREG BACKUS	HILSCHE CLARKE	GBACKUS@HILSCHE-CLARKE.COM	
3.	Nichole Eastep	MC-CROSSIN	neastep@mc-crossin.com 814.355.9080	✓
4.	Scott Jensen	R. Hampton	SCOTT@RHAMPTON.COM	
5.				
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13.				