

ALLEGHENY COUNTY SANITARY AUTHORITY

February 12, 2021

CONTRACT NO. 1729 G, E, H, P

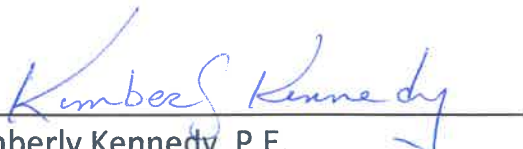
EAST HEADWORKS

ADDENDUM NO. 7

All bidders bidding Contract No. 1729 G, E, H, P shall read and take note of this Addendum No. 7. The Contract Documents for **Contract No. 1729 G, E, H, P – East Headworks** are hereby revised and/or clarified as stated below.

Acknowledgement of Contract No. 1729 G, E, H, P; Addendum No. 7

The Acknowledgement attached to Addendum No. 7 is to be signed and returned immediately via email to Dustin Copenhaver at Dustin.Copenhaver@alcosan.org and acknowledged with the Bidder's Proposal.



Kimberly Kennedy, P.E.
Director – Engineering and Construction

**ACKNOWLEDGEMENT OF
CONTRACT NO. 1729 G, E, H, P – EAST HEADWORKS**

ADDENDUM NUMBER 7

FIRM NAME: _____

SIGNATURE: _____

TITLE: _____

DATE: _____

February 12, 2021

CONTRACT NO. 1729 G, E, H, P

EAST HEADWORKS

ADDENDUM NO. 7



FEBRUARY 12, 2021

CONTRACT NO. 1729 G, E, H, P

EAST HEADWORKS

ADDENDUM NO. 7

A. Contract Documents – Volume 1

1. Article 2

- a) 2.15 A. **REPLACE** the last sentence of the paragraph with, “The lead testing indicated that lead paint was present on some pipes in the pipe gallery and the Venturi meter pit. Pipes that were identified to have lead-based or lead-containing paint are assumed to have a consistent coating throughout the gallery (i.e., continuing through to the southern gallery demolition area), regardless of specific sampling and testing in those areas. Bidders should include remediation of the lead paint both specifically identified and assumed based on continuation of pipes to be demolished in their bid. Lead mitigation shall adhere to practices identified by local, State and Federal regulations. Any lead encountered beyond these areas will require work stoppage and be paid under force account.”

- b) 2.15 C.4.a **DELETE** “Segregation of Residual Waste from Construction/Demolition Waste, Excavated Clean Fill and/or Regulated Fill shall be included in the bid price.” and **REPLACE** with “Segregation of Construction/Demolition Waste, Excavated Clean Fill and/or Regulated Fill from Residual Waste shall be included in the bid price.”

- c) 2.15 C.4.b **DELETE** “Segregation of Residual Waste from suspected Other Contaminated Waste shall be paid by force account. Construction/Demolition Wastes are not included in the definition of Other Contaminated Wastes.” And **REPLACE** with “Segregation of suspected Other Contaminated from Waste Residual Waste shall be paid under force account. Construction/Demolition Wastes are not included in the definition of Other Contaminated Wastes. Segregation and management of Other Contaminated Waste shall not be unreasonably delayed, and Contractor shall make best efforts to complete all such segregation in a manner that will result in no delays to the Substantial Completion or Final Completion Contract Times outlined in Article 4.”
- d) 2.15 C.4.c **ADD** to end of the paragraph “If Contractor chooses to segregate and manage Excavated Clean Fill as described here, it shall result in no delays to the Substantial Completion or Final Completion Contract Times outlined in Article 4.”
- e) 2.15 C.4.d **ADD** to end of the paragraph “If Contractor chooses to segregate and manage Excavated Clean Fill as described here, it shall result in no delays to the Substantial Completion or Final Completion Contract Times outlined in Article 4.”
- f) 2.15 C.4.e **ADD** to end of the paragraph “Segregation and management of Construction/Demolition Waste shall result in no delays to the Substantial Completion or Final Completion Contract Times outlined in Article 4.”

B. Contract Specifications – Volume 2

1. Summary of Work (Section 01 11 00)

1.13 A - **DELETE** paragraph in its entirety and **REPLACE** with “Lead paint was identified in an Environmental Sampling Report by Collective Efforts, dated 8/19/2019, which is supplied as a

reference document. The lead testing indicated that lead paint was present on some pipes in the pipe gallery and the Venturi meter pit. Pipes that were identified to have lead-based or lead-containing paint are assumed to have a consistent coating throughout the gallery (i.e., continuing through to the southern gallery demolition area), regardless of specific sampling and testing in those areas. Bidders should include remediation of the lead paint both specifically identified and assumed based on continuation of pipes to be demolished in their bid. Lead mitigation shall adhere to practices identified by local, State and Federal regulations. Any lead encountered beyond these areas will require work stoppage and be paid under force account.

2. Construction Facilities, Temporary Controls and Utilities (01 50 00)

- a) 1.6 A.2 - **DELETE** "Payment for this work will be by force account." and **REPLACE** with "Permit to be included in base bid."

3. Insulated-Core Metal Wall Panels (Section 07 42 13.19)

- a) PART 1 – GENERAL, **ADD** paragraph 1.5.B as follows:

A. Delegated Design: Engage a qualified professional engineer registered in the Commonwealth of Pennsylvania to design the metal wall panel system. Engineer shall produce signed and sealed calculations to demonstrate adequacy of metal wall panel system, including studs, girts, connections and accessories, to meet all strength and deflection requirements of the system. Calculations shall be well-coordinated with the shop drawings and organized so it is clear which calculations correspond to each wall and wall component.

- b) PART 1 – GENERAL, **RENUMBER** paragraphs 1.5.B through 1.5.K to 1.5.C through 1.5.L.

c) PART 1 – GENERAL, **ADD** paragraph 1.8.C as follows:
C. Delegated-Design Submittal: for Metal Wall Panel System.

d) PART 1 – GENERAL, **RENUMBER** paragraph 1.8.C to 1.8.D.

4. Integrated Louver Wall System (Section 07 42 17.20)

a) PART 1 – GENERAL, **ADD** paragraph 1.4.B as follows:

A. Delegated Design: Engage a qualified professional engineer registered in the Commonwealth of Pennsylvania to design the integrated louver wall system. Engineer shall produce signed and sealed calculations to demonstrate adequacy of integrated louver wall system, including studs, girts, connections and accessories, to meet all strength and deflection requirements of the system. Calculations shall be well-coordinated with the shop drawings and organized so it is clear which calculations correspond to each wall and wall component.

b) PART 1 – GENERAL, **RENUMBER** paragraphs 1.4.B through 1.4.F to 1.4.C through 1.4.G.

c) PART 1 – GENERAL, **ADD** paragraph 1.7.C as follows:

C. Delegated-Design Submittal: for Integrated Louver Wall System.

5. Resilient Tile Flooring (Section 09 65 19)

a) PART 2 – PRODUCTS, **ADD** paragraph 2.3 as follows:

2.3 VINYL COMPOSITION FLOOR TILE SDT-1 Basis of Design: Armstrong Excelon SDT.

- A. Description: Static dissipative vinyl tile composed of polyvinyl chloride resin, plasticizers, fillers, pigments, and antistatic additive with colors and texture dispersed uniformly throughout its thickness.
- B. Tile Standard: ASTM F1066, Class 2, through pattern.
- C. Wearing Surface: Smooth.
- D. Thickness: 0.125 inch.
- E. Size: 12 by 12 inches.
- F. Colors and Patterns: #51956, "Fossil Gray".

b) PART 2 – PRODUCTS, **RENUMBER** paragraph 2.3 to 2.4.

6. High Performance Coatings (Section 09 96 00)

- c) Paragraph 1.2.B, **DELETE** paragraph 2. Re-number paragraph 3 to 2.

7. Domestic Water Piping Specialties (Section 22 11 19)

- c) Paragraph 2.6.B, **ADD** the following item, "11. Tempered Water Design Flow Rate: 64 gpm at 5 psi pressure loss."

C. Contract Specifications – Volume 3

1. Pathways for Communications Systems (Section 27 05 28)

- c) Paragraph 2.1.A, **REVISE** the first sentence of this section to, "All ducts and raceway ... shall be aluminum, or rigid PVC."
- d) Paragraph 2.1.A, **REVISE** the last sentence of this section to, "Other finishes for environmentally controlled area duct/cable tray may be used ..."

- e) Paragraph 3.9, REVISE the first sentence of this section to, "Install outside video camera outlets using ..."
- f) Paragraph 3.10, REVISE the last sentence of this section to, "Speaker outlets ... connected to the cable tray with 1 inch PVC."
- g) Paragraph 3.12, REVISE to read, "Outside video camera outlets ... connected to the cable tray with 1 inch PVC."

2. Earthwork, Excavation, Trenching and Backfilling (Section 31 21 00)

- c) Paragraph 1.6.L, **ADD** to this section, "The basis of bids shall include the handling and discharge of water generated by dewatering which will comply with conventional NPDES and Alcosan's Groundwater Permit requirements. In the event that water is determined to need offsite treatment and disposal, costs related to those efforts will be paid under force account."
- d) **DELETE** paragraph 1.9.A in its entirety and **REPLACE** with:
"Where existing structures or utilities are indicated in the contract documents or provided reference materials the Contractor shall, at no additional cost to the Owner, maintain, support-in-place, and protect all pipes, poles, cables, utilities, walls, buildings, and other structures or property in the vicinity of its work, whether above or below ground, or that may be uncovered during the execution of the work. The Contractor shall at all times have available on-site sufficient quantity of timber, planks, beams, chains, ropes, etc., and shall use them as necessary for supporting any structures and utilities that are uncovered, undermined, endangered, threatened or weakened by the contractor's activities. In the event that the Contractor damages any existing structures or utility the Contractor shall notify the Engineer and the applicable utility owner immediately and be responsible for the timely repair of such damages."

3. Management, Handling, and Disposal of Excavated Soil and Other Excavated Material (Section 31 23 00)

c) **DELETE** paragraph 1.5.D.1 and **REPLACE** with:

“Liquid collected from storage areas, ground water inside utility manholes, vaults, or excavations shall be sampled for heavy metals, oil, and pH and shall meet the ALCOSAN Regulation for discharge into the sanitary Sewer. Contractor shall obtain permits from ALCOSAN before discharge. Contractor to provide appropriate sample port to allow ALCOSAN staff to obtain samples. ALCOSAN to collect and test samples for this requirement.”

d) **DELETE** paragraph 1.5.D.2 and **REPLACE** with:

“Liquid collected from storage areas, ground water inside utility manholes, vaults, or excavations that does not meet ALCOSAN Regulation for discharge into the sanitary sewer shall be appropriately transported and treated offsite. Analyses for such liquid to be taken to an offsite treatment facility shall conform to local, state, and federal criteria as well as to the requirements of the treatment facility. Documentation of all analyses performed shall be furnished to the Contracting Officer. Additional sampling and analysis to the extent required by the approved offsite treatment, storage or disposal (TSD) facility receiving the material shall be paid under force account.”

4. Concrete Paving (Section 32 13 13)

c) PART 3 – EXECUTION, **ADD** paragraph 3.2 as follows:

3.2 EXAMINATION

A. After removal of the existing concrete pavement, inspection of the subbase, and installation of utilities, the existing subbase material shall be proof-rolled to identify any subbase concerns and prepared per Section 31 21 00 – Earthwork, Excavation, Trenching, and Backfilling, and the

new pavement section shall be installed per plan drawings, specifications, and geotechnical report.

B. Verify gradients and elevations of base are correct.

- d) PART 3 – EXECUTION, **RENUMBER** paragraph 3.2 to 3.3 and 3.3 to 3.4, and 3.4 to 3.5.
5. Subdrainage (Section 33 41 00)
- a) **DELETE** this section in its entirety.
6. Process Valves, Smaller Than Four Inches (Section 40 05 56)
- c) Paragraph 2.1.B.5, **ADD** the following footnote, “a. Pressure Reducing Valves shall be designed for adjustable inlet and outlet pressures of up to 150 psi.”
 - d) Paragraph 2.5.A, **ADD** the following sentence to the end, “Back Pressure Valves shall be designed for adjustable inlet and outlet pressures of up to 150 psi.”
7. Belt Conveyor Equipment (41 21 23.13)
- a) Paragraph 2.1.D.7.c, **REVISE** first sentence to read, “Skirts shall be constructed of minimum ¼-inch thick 304 stainless steel plate.”
 - b) Paragraph 2.1.D.8.a, **DELETE** “ASTEM A-36” in first sentence, and **INSERT** “304 stainless,” to read, “... shall be 304 stainless steel.”
 - c) Paragraph 2.1.D.9.b, **INSERT** “304 stainless” in the first sentence to read, “... constructed of 304 stainless steel in...”
 - d) Paragraph 2.1.D.13.b, **INSERT** “304 stainless” in the first sentence to read, “shall utilize seamless or welded 304 stainless steel tubing...”

- e) Paragraph 2.1.D.15.a, **INSERT** “304 stainless steel” in the first sentence to read, “Provide 304 stainless steel drip pans...”
- f) Paragraph 2.1.D.16.a, **REPLACE** “carbon” in second sentence with “304 stainless” to read, “...be minimum 3/16” 304 stainless steel, with...”
- g) 2.1 H.1.b – **DELETE** “Belt vulcanizing splicing kit, with sufficient materials for three (3) splices” and **REPLACE** with “Solid Bolt Plate Splicing Fastening System, with sufficient materials for three (3) splices”.

D. Contract Drawings

1. Drawing C-34

- c) PUMPED WATER FILTER BAG detail, **DELETE** Note 1 and **REPLACE** with, “FILTER BAGS SHALL BE USED TO DEWATER EXCAVATIONS PRIOR TO DISCHARGE.”

2. Drawing 530-A-20

- c) **DELETE** this drawing and **REPLACE** with the attached drawing 530-A-20.

3. Drawing 530-A-23

- c) **DELETE** this drawing and **REPLACE** with the attached drawing 530-A-23.

4. Drawing 530-A-28

- c) **DELETE** this drawing and **REPLACE** with the attached drawing 530-A-28.

5. Drawing 530-A-36

- c) DELETE this drawing and REPLACE with the attached drawing 530-A-36.

6. Drawing 530-A-37

- c) DELETE this drawing and REPLACE with the attached drawing 530-A-37.

7. Drawing 530-A-38

- c) DELETE this drawing and REPLACE with the attached drawing 530-A-38.

8. Drawing 530-A-39

- c) DELETE this drawing and REPLACE with the attached drawing 530-A-39.

9. Drawing 530-TR-01

- c) **DELETE** Sheet Keynote No. 2 and **REPLACE** with, "PROVIDE SWITCH BOX FOR PAGING AMPLIFIER. AMPLIFIER IS BY OWNER."

E. Questions

102. **QUESTION:** Reference drawing C-11 Paving plan & CD-10 detail #3 for the following questions.

- a. How thick is the existing concrete pavement that is to be removed in order to place new pavement?

RESPONSE: Existing concrete pavement sections are up to 10-inches thick.

- b. Does the subbase need to be removed and replaced as detail #3 on CD-10 does not indicate? If yes, indicate the material and thickness.

RESPONSE: After removal of the existing concrete pavement, inspection of the subbase, and installation of utilities, the existing subbase material may be proof-rolled to identify any subgrade concerns and prepared per Section 31 21 00 – Earthwork, Excavation, Trenching, and Backfilling, and the new pavement section installed per plan drawings, specifications, and geotechnical report.

103. **QUESTION:** Reference the third sentence of specification 31 21 00,1.9.A which reads: “The Contractor shall be responsible for all damage, shall take all risks, and shall assume all expense for injury or damage, to any person or property of every kind and description, caused directly or indirectly by the Contractor's work, whether such structures or utilities are or are not shown on the Drawings.” This language shifts the obligation to identify all utilities within the confines of the plant to the contractor and is very one-sided in that the contractor is expected to respond to any and all damages even when structures or utilities are not shown. We request that paragraph 1.9.A be revised as follows:

Where existing structures or utilities are indicated in the contract documents or provided reference materials the Contractor shall, at no additional cost to the Owner, maintain, support-in-place, and protect all pipes, poles, cables, utilities, walls, buildings, and other structures or property in the vicinity of

its work, whether above or below ground, or that may be uncovered during the execution of the work. The Contractor shall at all times have available on-site sufficient quantity of timber, planks, beams, chains, ropes, etc., and shall use them as necessary for supporting any structures and utilities that are uncovered, undermined, endangered, threatened or weakened by the contractor's activities. In the event that the Contractor damages any existing structures or utility the Contractor shall notify the Engineer and the applicable utility owner immediately and be responsible for the timely repair of such damages.

RESPONSE: Agreed with the exception of stating "... in contract documents or provided reference materials ..."

104. **QUESTION:** Reference specification 31 21 00, 1.6.L which references the potential that dewatering efforts may contain the chemical element lead (Pb). This paragraph as written cannot be quantified for inclusion in a competitive bid. Please revise this paragraph to state that the basis of bids should include the handling and discharge of water generated by dewatering which will comply with conventional NPDES permit requirements. Further, please clarify that in the event water containing any chemical or contaminant is encountered which does not allow for conventional discharge complying with NPDES permits that all costs associated with permitting, storage, handling, treatment, transportation and disposal of such water shall be paid under force account.

RESPONSE: Although unanticipated per the RACR report included in the reference documents, for the basis of bidding it is to be assumed that elemental lead levels will meet the NPDES permit. The full document and the permit application are on our website <https://www.alcosan.org/our-customers/industrial-commercial-users>.

105. **QUESTION:** Reference specification 31 23 00, 1.5.D Sampling Liquid. Paragraph 1 indicates that liquid collected is to be sampled prior to discharge into sanitary sewers. Please indicate the required frequency of sampling.

RESPONSE: For bidding purposes, assume once a month. Contractor shall provide a sampling port and sampling will be conducted by the Owner. Actual frequency of sampling may change based on results and volumes.

106. **QUESTION:** Reference specification 31 23 00, 1.5.D Sampling Liquid. Paragraph 2 indicates “Liquid that does not meet ALCOSAN Regulation for discharge into the sanitary Sewer shall be appropriately transported and treated offsite.” As written this requirement cannot be quantified for inclusion in a competitive bid. Please revise this paragraph to state that the basis of bids should include the handling and discharge into the ALCOSAN sanitary sewer for liquids collected from storage areas, ground water inside utility manholes, vaults, or excavations. Further, please clarify that in the event liquids collected from storage areas, ground water inside utility manholes, vaults, or excavations do not meet ALCOSAN regulations for discharge into the sanitary sewer that all costs associated with permitting, storage, handling, treatment, transportation and disposal of such liquids shall be paid under force account.

RESPONSE: Agreed on “paid under force account”.

107. **QUESTION:** On drawing C-03 (31 of 645) an existing ductbank is shown running east-west along the road to the north of the existing and new headworks buildings. On drawings C21 & C-22 (38&39 of 645) this ductbank is shown just to the north of the proposed 24” DRN. Please provide information regarding the dimensions and what this existing ductbank feeds. Will it be removed at any time during the course of the project?

RESPONSE: The referenced ductbank can be removed between EMH-6 and EMH-9 after wiring is removed as part of Contract 1739. EMH-6 and EMH-9 must be protected during construction. EMH-7 and EMH-8 can be demolished. Contractor shall coordinate work in this area with the CM. Remaining ductbank shall be protected and supported by the Contractor during construction. Reference drawings A-100, A-102, and A-103 included for reference.

108. **QUESTION:** Reference drawing CD-11 (sheet 57): Are precast manhole bases acceptable in lieu of cast-in-place? Is there a special coating that should be used on the "inside" of the manholes?

RESPONSE: Precast manhole bases are acceptable in lieu of cast-in-place bases. Manholes shall be coated on the exterior as shown in Detail 13/CD-11.

109. **QUESTION:** Reference drawings C-21 & C-22 (sheets 38 & 39): Is the 24" DI line designed to carry raw sewage and a part of system 4? If so, will it be required to have Protecto 401 ceramic lining?

RESPONSE: The 24" DI line is designed to carry raw sewage. Ductile Iron shall be cement mortar lined conforming to the requirements of ANSI/AWWA C104.

110. **QUESTION:** Reference drawing C-34 (47 of 645), Note No. 1 for the PUMPED WATER FILTER BAG states: FILTER BAGS MAY ONLY BE USED TO DEWATER EXCAVATIONS WHERE EXCAVATION IS NOT SUSPECTED OF BEING CONTAMINATED. Please clarify if a pumped water filter bag may be used to dewater an excavation where the material is comprised of Residual Waste as defined in specification 31 23 00.

RESPONSE: The Remedial Action Completion Report (RACR) shows no indication of contamination. The groundwater removed from the excavations should be treated to remove sediment (i.e., pumped water

filter bag or equivalent, etc.) prior to being discharged. Should field conditions indicate that there may be cause for concern from pollution other than sediment, this should be addressed independent of the Erosion and Sediment Control Plan. The groundwater monitoring wells being used for sampling have been removed. The letter received from DEP approving the RACR of this area and well abandonment forms are included for reference.

111. **QUESTION:** Reference Article 2.15 which indicates that there is lead based paint on the site per the Environmental Sampling report by Collective Efforts, dated 8/19/2019 and that bidders should include remediation in their bid. Also reference specification 01 11 00, 1.13.A which indicates that lead paint may be present at the site and the same paragraph goes on to say that if lead paint is discovered to stop work and notify the owner. Is 01 11 00, 1.13.A only intended during an instance when lead paint is found outside of the results from the sampling report indicated in Article 2.15? If yes, please clarify what the next step(s) will be and how the contractor will be compensated for the removal of the lead paint outside of that which was identified in the report.

RESPONSE: The Contractor's responsibility within the base bid also applies to areas that are impacted by proposed construction that were not included in the Environmental Sampling Report. The lead testing completed in 2019 indicated that lead paint was present on some pipes in the gallery and the Venturi meter pit. Pipes that have lead-based or lead-containing paint are assumed to have a consistent coating throughout the gallery (i.e., continuing through to the southern gallery demolition area). Contractor shall include lead remediation in the base bid for both areas specifically identified in the referenced report and assumed continuation of piping identified to contain lead paint that is in the demolition work area. Any lead remediation needed outside of these areas will require work stoppage and be paid under force account.

112. **QUESTION:** Reference 01 50 00, 1.6.A.2 which indicates that The Contractor shall obtain and pay for the City of Pittsburgh and Allegheny County Health Department, and any other permits required for the proper removal, handling and disposal of lead or chromium-based paints and asbestos, if encountered. Payment for this work will be by force account. Please clarify if this paragraph is correct as it does not appear to agree with Article 2.15, but may agree with 01 11 00,1.13.A.

RESPONSE: Permit shall be obtained by the Contractor and included in the base bid.

113. **QUESTION:** Reference specification 31 21 00,3.6.D which indicates that fill or backfill for structures shall be borrow or aggregate. Please clarify the following regarding the use of borrow:

- a. Can borrow be used beneath structures.
- b. Can borrow be used beneath pavement.

RESPONSE: Borrow is a general term for any soil material brought in from offsite, including aggregate. Aggregate suitably graded to meet the specifications and drawing details shall be provided beneath pavement and structures.

114. **QUESTION:** Reference Specification Section 27 05 28 PATHWAYS FOR COMMUNICATION SYSTEMS section 2.1(A): 2.1 (A) states that the following: All ducts and raceways outside of Administrative environmentally controlled areas (basement, galleries, Bar Rack, mechanical and Dewatering Rooms, etc. shall be aluminum, stainless steel, or have a black resistance coating. 2.2 states the following non-metallic conduit shall be PVC Schedule 80. Section's 3.6, 3.9, 3.10 and 3.12 allows the use of 1" non-metallic conduit or 1" PVC. Section 3.18 allows the use of Schedule 80 conduit to outlets outside of the first floor administrative area and EMT for the outlets within the first floor administrative area. Please clarify the following:

- Is it allowable to use PVC conduit above grade within the new Headworks Building?
- Please clarify specifically what type of conduit is allowed to be used outside of the Administrative Area?

RESPONSE: PVC conduit is allowable where shown on the Telecommunications Drawings and specified in Section 27 05 28 and applies only to communications work. Electrical conduit shall be as shown on the Electrical Drawings and specified in Section 26 05 33.

115. **QUESTION:** On page M-03 I see three flash tanks and 3 duplex condensate pumps. If they are new can we get schedules and spec sections.

RESPONSE: The Flash Tanks and Pressure Driven Condensate Pumps are new and shall be provided as detailed on MD-02. Flash tanks shall be sized to suit the Pressure Driven Condensate Pump they serve and supplied by the same Manufacturer. The Pressure Driven Condensate Pumps shall be supplied as specified in 40 11 00 - Steam Process Pipe paragraph 2.11. A simplex arrangement was intended.

116. **QUESTION:** From page 520-M-10 and on I see an assortment of 4", 6", and 8" expansion joints. I believe these are new, please confirm. If new, please provide a spec section. A schedule would be nice if possible.

RESPONSE: The steam system expansion joints are new and shall be provided as specified in 40 05 06 - Coupling, Adapters, and Specials for Process Piping. A schedule is not provided, as the expansion joints are an integral part of the piping support design provided by the Contractor, and therefore subject to change.

117. **QUESTION:** On page 520-M-31 and 530-M-37 there are pressure powered condensate pumps. 520-M-31 is in the pipe gallery and there are notes in the spec to size for a minimum of 250 #/hr. 530-M-37 is in the east headworks basement and the specs say to size for a minimum 7,000 #/hr. On page 530-H-62 there is a note that reads, "to condensate return pump (provided by GC)". Please confirm if the two pumps listed are new and if they are actually being supplied by the GC.

RESPONSE: Drawing M-03 indicates the three (3) required new Pressure Powered Condensate Pumps that shall be provided by the GC for the project. Two (2) are located in Pipe Gallery on drawings 520-M-31 and 530-M-37 shall have a capacity of 250 lbs per hour. One (1) is located in the East Headworks Basement on drawing 530-M-11 along the south wall approximately 4' 6" +/- west of gridline 5 and shall have a capacity of 7,000 lbs per hour. The Pressure Driven Condensate Pumps shall be supplied as specified in 40 11 00 - Steam Process Pipe paragraph 2.11.

118. **QUESTION:** Mixing valve shown in detail on page 530-PD-50. Can we get a schedule or at least a GPM and pressure drop?

RESPONSE: Mixing valve shall be Lawler Model 805 (or equal), with 64 gpm flow rate at 5 psi pressure drop. Refer to updated specification Section 22 11 19 – Domestic Water Piping Specialties.

119. **QUESTION:** Drawing I-03 (Sheet 604) DCS Architecture Drawing shows the following:

- 1-Dotted Line from a Media Converter @ Root Switch 1 to the new Network Switch
- 1-Dotted Line from a Media Converter @ Root Switch 1 to CTRL46/96
(Tagged H-DPU046530-1)
- 1-Dotted Line from a Media Converter @ Root Switch 2 to the new Network Switch

- 1-Dotted Line from a Media Converter @ Root Switch 2 to CTRL46/96
(Tagged H-DPU046530-2)

1. What do these lines represent?

RESPONSE: These dotted lines are diagrammatic representations of connections for Fiber Optic pairs of strands used in the F.O. cables.

2. What is CTRL46/96?

RESPONSE: The CTRL 46/96 represents the new DPU in the Electric Room. This will be provided by ALCOSAN to be installed by the E Contractor.

120. **QUESTION:** Reference Drawings I-04, I-05, I-06; Note 1 Indicates (2) 6-Strand MM FO Cables from Operations Building 800 to the IT Room In the East Headworks Building 530.

1. Is (1) Cable going to the Network Switch and (1) Cable to CTRL46/96?
2. Are both cables going to the Network Switch?
3. Are both Cables going to CTRL46/96?

RESPONSE: The E Contractor will be responsible to route, install and terminate F.O. trunk cables as follows:

- Qty. (1), 6-strand Fiber Optic cable from the DPU in the Electric room to the patch panel in the PCS Computer Cabinet in the IT Telecom/Distribution Room (Drawing 530-I-15)
- Qty. (2), 6-strand Fiber Optic cables from PCS Computer Cabinet patch panel to the ex. patch panel in Building 802 (Drawings I-04, I-05, I-06)
- Ethernet switches patch panels, DPU cabinet and PCS Computer Rack shall be provided by ALCOSAN for installation by the E Contractor. Fiber Optic and Cat-6 patch cables within cabinets to be provided by ALCOSAN.

121. **QUESTION:** Reference Specification 01 78 39: Does the electrical contractor need to employ a Professional Land Surveyor for record documents?

RESPONSE: A professional land surveyor is required to perform the functions as laid out in specification Section 01 11 20 – Job Conditions and elsewhere where mentioned in the specifications. This includes verification of all as-built drawing changes made to the Contract Documents.

122. **QUESTION:** Reference Specification 01 81 10: What electrical equipment devices or structures need to have its anchorage designed and sealed by a professional engineer?

RESPONSE: It is intended to be applicable to all electrical equipment as it does not provide additional details or clarifications on what type of equipment is exempt from this specification.

123. **QUESTION:** Reference Specification 01 11 00: Which Contract is responsible to furnish & Install Solenoid Valves?

RESPONSE: Solenoid valves shall be provided by the General Contractor as part of Section 40 05 00 – Common Work Results for Process Interconnections.

124. **QUESTION:** Reference Specification Section 26 29 24: Are any manufactures considered equal to Yaskawa such as Toshiba, Danfoss, EATON, ABB?

RESPONSE: ALCOSAN will not be adding any products to the list for any of the listed products during the bid period. Not listed products will have to go through the substitution process if submitted by the successful bidder after the notice to proceed. Reference Article 2 – 2.05 B.3.

125. **QUESTION:** Is there a specification for Welding Receptacles?

RESPONSE: Welding Receptacles shall be Crouse-Hinds 60A,3W,4P Non-fused Catalog# CSR 63524 and matching Plug Catalog# APJ6485/NPJ6484.

126. **QUESTION:** Reference Drawing 520-ET-01 Keynote 3: Please provide all wiring information for power and control circuits T-904, C-701, S-265.

RESPONSE: As indicated in Keynote 3 on drawing 520-ET-01, the contractor is to work with the Owner for wiring information for power and control circuits T-904, C-701, S-265 and may be other circuits that are not recorded in the as-built as directed by the Owner.

127. **QUESTION:** Are the utility relocations of water lines and electrical lines in the general package?

RESPONSE: Responsibility for underground utility work shall be as shown on the drawings and as described in Section 01 11 00. Utilities not shown on the drawings but needed to be relocated for convenience by a Prime Contractor shall be relocated by the same Prime Contractor after fully coordinating with the Owner and CM at the expense of the Prime Contractor.

128. **QUESTION:** Will you please provide any related discharge permit requirements for the temporary dewatering system. Other than lead removal, are there other parameters and sampling requirements for the effluent discharge of the dewatering system.

RESPONSE: The full document and the permit application are on our website <https://www.alcosan.org/our-customers/industrial-commercial-users>. A subsection of the limits is included in this addendum.

129. **QUESTION:** Reference Specification 41 21 23.13 Belt Conveyor Equipment:

- a. 41 21 23.13, 2.1, H, 1, b. states “vulcanized” splicing kit. True vulcanized splices are made with special heat press equipment. Do you mean flexible mechanical stainless steel splicing kit?

RESPONSE: Manufacturer shall provide the materials needed to perform a hot vulcanized splice in the field as spare parts. After construction, splice would be completed by a qualified contractor in the field utilizing their own equipment.

- b. 41 21 23.13, 2.2, A, 1, nozzles states “quantity shall be as shown on the drawings.”. Please indicate which drawing number the nozzle quantity & location can be found.

RESPONSE: Drawing 530-MD-51 Detail D contains nozzle quantity and location.

- c. 41 21 23.13, 2.2, B, 1, “Containment...as shown on contract drawings.”. We are unfamiliar with this term and intent regards belt conveyors and do not see them detailed on the drawings. Please identify the drawing number where these can be found and describe intent of containment.

RESPONSE: Drawings 530-M-13 Sheet Keynote 1, and Drawing 530-S-15 detail the location of the concrete curb containment to be provided by the General Contractor, and coordinated with the Conveyor.

- d. 41 21 23.13 Belt conveyor frame, supports, drip pan, & guards are carbon steel painted. Is carbon steel HDG or T-304 stainless acceptable alternatives to painted carbon steel?

RESPONSE: T-304 stainless steel is an acceptable alternative to the specified materials.

130. **QUESTION:** Reference drawing 500-A-01 (64 of 645), Sheet Keynote no. 5 indicates to infill demolished window opening with brick and masonry to match existing. Please provide a specification for the existing brick and masonry for both the exterior and the interior of this structure as they are not listed in the project's masonry specification.

RESPONSE: The existing brick and masonry at this location is over fifty years old, which makes it difficult to specify an exact product. The intent is to match the dimensions and appearance of the existing red exterior glazed brick and yellow interior structural glazed tile. Elgin Butler is the basis of design manufacturer. Exterior glazed brick shall comply with ASTM C1405 Class Exterior. Interior structural glazed tile shall comply with ASTM C-126, Grade S, Type I & II.

131. **QUESTION:** Reference drawing 530-S-31 (163 of 645), in the top left corner of both sections 1 and 2 from drawing 500-S-12 there is a note which states "COORDINATE CURB WITH ARCH DETAIL". Is the Arch Detail being referenced detail 2 on sheet 500-A-01 (64 of 645)? If not, please clarify the detail which is being referenced on sheet 530-S-31.

RESPONSE: To clarify, the question refers to Drawing 500-S-31 (163 of 645). Yes. The Arch Detail referenced on Sections 1 and 2 of Drawing 500-S-31 is Detail 2/500-A-01.

132. **QUESTION:** To facilitate the installation of the walkway reinforcement beam shown on drawing 500-S-13 and the replacement of the concrete walkway at EL. 727.88 (shown for removal on drawing 500-SDM-12) please provide the elevation of the floor beneath each of these locations as we have not found it on any of the drawings for Facility 500.

RESPONSE: The floor below these locations is the pump room - finished floor elevation = 616.61' according to record drawings for the Main Pump Station. This information is included in the reference documents. 07 Reference Drawings -> Main Pump Station -> ACSA Contract 34-44M ->sheet M7 (page 8/101)

133. **QUESTION:** Reference drawing 530-A-37 (102 of 645), in section 1 for Stair 2 there are 2ea detail call outs numbered 1 and 3 from drawing 530-A-38 located near the top of the section view. On drawing 530-A-38 detail 1 and detail 3 are for railing details where there is not railing shown on 530-A-37. Also reference drawing 530-ELP-10 which shows the stairs extending to uppermost level of stair 2 as opposed to 530-A-37. It appears that drawing 530-A-37 may have been issued incorrectly and that the intent was to extend the stairs all the way to the top of the stairwell as indicated in 530-ELP-10. Please advise.

RESPONSE: The uppermost level of the stair was omitted from the drawing. The intent is for Stair 2 to terminate at the Penthouse Floor Level (Elevation 766). Refer to revised drawings 530-A-23, 530-A-28, and 530-A-36 through 39, issued with Addendum No. 7.

134. **QUESTION:** Reference stair 2 for Facility 530, please clarify if these are pan stairs or another stair system.

RESPONSE: Stair 2 is a metal pan stair system. Refer to Specification Section 05 51 13.

135. **QUESTION:** Reference drawing C-11 (35 of 645), is welded wired mesh reinforcement required for the concrete pavement shown?

RESPONSE: No, but welded wire mesh shall be added to irregular shaped paving sections.

136. **QUESTION:** CABLE TYPES – Reference Section 27 15 13 COMMUNICATION COPPER HORIZONTAL CABLING: 2.1 (A) asks for all cable outside of the administration area to be CMR, 2.7 states CMP may be substituted for CMR and these two notes are the only places throughout the section that specifies CMR. Please clarify what types of cables are to go where.

RESPONSE: All cable outside of the administration area to be CMR. Cable inside of the administration area (Control Room, Break Room, and the adjacent area) should be CMP.

137. **QUESTION:** PATCH PANEL TYPES – Reference Section 27 15 13 COMMUNICATION COPPER HORIZONTAL CABLING: 2.1 (L) states that connection to the patch panel is to be made through rear mounted 110 punch downs. 1.1 (D) of the same section calls for a modular patch panel for each type of service. Please clarify which type of patch panel is to be used.

RESPONSE: 2.1 (L) is for the 25 pair copper cable as shown in drawing 530-TR-02. 1.1 (D) is applicable to the patches everywhere else. Reference drawing 530-TR-02 and other 530 detail drawings.

138. **QUESTION:** PAGING AMPLIFIER SPECIFICATIONS – Reference Contract Drawing 530-TR-01 EAST HEADWORKS PA OUTLET CABLING: Note 2 on above drawing states “Provide paging amplifier with switch box”. Can any specifications be provided concerning that equipment?

RESPONSE: Note 2 has a typo. It should have read, “PROVIDE SWITCH BOX. PAGING AMPLIFIER IS BY OWNER.” ALCOSAN’s current pagers are Bogen Telephone Paging Amplifiers.

139. **QUESTION:** TELECOMMUNICATIONS CLOSET BACKBOARD – Reference Section 27 11 00 COMMUNICATIONS EQUIPMENT ROOM FITTINGS: 3.2 states we are to provide backboard. Drawing 530-TD-01 is unclear, how many sheets of backboard will be needed?

RESPONSE: An 8'x8' telephone backboard along the wall on column 8 as indicated on the referenced Drawing is sufficient.

140. **QUESTION:** SPEAKER TYPE AND TERMINATIONS: Who is to provide the speakers, and are they going to mount to the box or be mounted on the wall?

RESPONSE: Speakers are by Owner, please coordinate with the Owner for how the speaker will be mounted. ALCOSAN's current speakers are Bogen horn speakers.

141. **QUESTION:** BACKBONE FIBER AND COPPER ROUTE: Will the backbone cables at any time enter a manhole or will they be in conduit the entire way from the new closet to the existing Termination Hub?

RESPONSE: See Drawing TSP-01 for ductbank detail and allowance of raceways for communication cabling. The proposed communication backbone cabling does not enter any manhole.

142. **QUESTION:** WALL MOUNTING HARDWARE – Reference Section 27 05 29 HANGERS AND SUPPORTS FOR COMMUNICATIONS SYSTEMS: 3.3 states cable tray supported from walls is to be done with slotted channel mounted to the wall from which a horizontal bracket shall directly support the duct. Is this to be interpreted as no manufactured angle brackets are to be used, or that manufactured angle brackets are to be mounted on strut, not directly onto the wall?

RESPONSE: Manufactured angle brackets are to be mounted on strut, not directly onto the wall.

143. **QUESTION:** SLEEVING THROUGH WALLS – Reference Contract Drawing 530-TD-01 EAST HEADWORKS IT TELECOM RM DETAILS and Contract Drawing 530-TT-10 EAST HEADWORKS SECOND FLOOR-PLAN AREA-C: The telecom print depicts what appears to be a slot going through the wall, but the firestopping notes throughout the rest of the drawings mention core drilling. Is this going to be a slot through which the cable tray runs through or is it to be sleeved? If it is to be sleeved, how many sleeves should go through the wall? If it is going to be slotted, what kind of firestopping should be done (ie. Bricks, pillows)

RESPONSE: It is going to be a slot through which the cable tray runs through. Bricks firestopping preferred; painted to match wall color.

144. **QUESTION:** LADDER RACK AND TRAY – Reference Contract Drawing 530-TD-01 EAST HEADWORKS IT TELECOM RM DETAILS: This drawing depicts ladder rack in the closet but also refers to tray outside of the closet as ladder rack. Ladder rack within the closet has dimensions of 12"x4". Is the pathway within the closet to be ladder tray, consisting of 4" sides, or ladder rack?

RESPONSE: The pathway within the closet to be ladder rack, consisting of 4" sides.

145. **QUESTION:** What is the frequency of dumpster removal at the West Headworks Screening Garage? Daily Multiple times per day?

RESPONSE: The average is roughly once per month.

146. **QUESTION:** Reference specification 33 41 00 Subdrainage: We cannot find it referenced on the drawings. Is there any required for this project? If so, where is it required?

RESPONSE: Upon further review, this specification does not apply to this project and will be deleted.

147. **QUESTION:** Is there a schedule and spec section for the chemical pumps: PCA-001 thru 4, PHF-001 thru 4, PAF-001, PCB-001 thru 4?

RESPONSE: There is no schedule, but these pumps are specified in Specification Section 44 31 10 – Chemical Scrubber Odor Control System, Subsection 2.5.C.

148. **QUESTION:** Reference details 5, 6 & 8 on sheet 530-A-49 : These details apply to the Integral Louver Wall System structure and how it ties to the building structure. As far as we can tell the structural drawings do not account for these girts to support the ILWS wall, similar to the girts that support the insulated metal panels at the high bay areas elsewhere on the building. Please provide design for structural steel to support the ILWS wall at the southeast corner of the building.

RESPONSE: The design for the structural steel required to support the Integral Louver Wall System is by the Integral Louver Wall System manufacturer/supplier. Refer to Specification Section 07 42 17.20 – Integrated Louver Wall System.

149. **QUESTION:** Reference the enlarged first floor plan 1 on sheet 530-A-32: It identifies the column enclosures at column line intersections B-10 and B-11 as partition type OC.1. Partition type OC.1 is a 2" vertical metal panel per sheet 530-A-55. Please verify if this is accurate. Also, please verify if this column enclosure should have a fire-rating, which it currently does not.

RESPONSE: Disregard Partition Type OC.1 at the column enclosures for Columns B-10 and B-11. The column enclosure at Column B-10 shall be 4" CMU. The column enclosure at Column B-11 shall be 4" CMU per Detail 1/530-A-42. The column enclosures at Columns B-10 and B-11 are not fire rated.

150. **QUESTION:** Reference detail 1 on sheet 530-A-42: Indicates a 3" insulated metal back-up panel behind the UHPC panel. All other details show a 2" back-up panel. Please verify that all insulated back-up panels behind the UHPC panels are to be 2" and that all insulated back-up panels behind the ILWS are to be 2 ¾".

RESPONSE: Typically, insulated back-up panels behind the UHPC panels are to be 2" and insulated back-up panels behind the ILWS are to be 2 ¾", unless noted otherwise. However, Detail 1/ 530-A-42 correctly shows 3" insulated metal back up panel. Likewise, Detail 4/530-A-44 should employ 3" insulated metal back up panel.

151. **QUESTION:** Reference drawing C-22 (Addendum 4): Please confirm that there is no work for contract 1729G associated with the electrical duct bank that is noted to be included with contract 1739. In other words, we do not have to trench (excavate and backfill) for it.

RESPONSE: There is no work in this contract associated with referenced Contract 1739 work, only requirements to coordinate with that Contractor and the CM.

152. **QUESTION:** Is there a specific type of pipe to be used for the 42-inch temporary by-pass?

RESPONSE: Bypass pipe material shall be BSP (Black Steel Pipe) as shown on 500-M-71.

153. **QUESTION:** Please provide a NPDES plan.

RESPONSE: The full NPDES permit is attached in this addendum #7.

154. **QUESTION:** Drawing 500-M-01 Main Pumping Station Process Flow Diagram, Sheet Keynote 3 states that (6) magnetic flow meters on the discharge of pumps MSP001, 002, 003, 004, 005, and 006 are provided under separate Contract 1716. What is the responsibility, if any, for Contract 1729 G Contractor relative to these flow meters? Please advise.

RESPONSE: None beyond coordination with Contract 1716 and the CM, which is slated to be completed September 2021 per Addendum #3, Question #33.

155. **QUESTION:** Drawing 530-M-14 East Headworks Intermediate Level - Partial Plan - B, are there any FRP-FAR expansion joints required for the two runs of ductwork within or exiting the building? Please advise.

RESPONSE: No expansion joints are required on the two runs of ductwork within the building.

156. **QUESTION:** Drawing 535-M-30 Grit Tanks Common Effluent Channel Sections, Section 2, shows what appears to be FRP Duct Post Mount Guide Supports similar to those shown on Drawing MD-01 Typical Mechanical

Details "I". There appears to be (14 +/-) shown supporting the 8" thru 24" FRP ductwork. Please confirm that these are in fact Type "I" FRP duct supports.

RESPONSE: No, the FRP duct supports are Type "H" and "F" as indicated on Drawing 2 / 535-M-10 and sheet keynotes.

157. **QUESTION:** Drawing 530-MD-51 East Headworks Details, Detail A indicates that Sump Pumps No. 12, 13 and 14 drain to the header shown and are located in the East Headworks Building. Please advise where/what drawings show Sump Pump No. 14.

RESPONSE: Sump Pump No. 14 is shown on Drawing 530-M-10 and section 5/530-M-33.

158. **QUESTION:** Drawing 530-M-08 East Headworks Odor Control PFD, please confirm that the size of the FRP-FAR drops and the odor control dampers at the end of each drop are the same size as shown on this drawing.

RESPONSE: Confirmed.

159. **QUESTION:** Please provide specification for SDT-1, Static Dissipative tile, that is listed on Finish Schedule 530-A-58 and Finish Plan 530-A-57.

RESPONSE: The Basis of Design for SDT-1 is Armstrong Excelon SDT. Please refer to revised Specification Section 09 65 19, Part 2.3 included with this Addendum.

160. **QUESTION:** Specification 09 9000 - High Performance Coatings has specification 09 91 13 - Exterior Painting as a related requirement. Is the exterior paint specification applicable? If so, please provide the specification.

RESPONSE: An Exterior Painting specification is not a related requirement and is not applicable. All exterior substrates shall receive high-performance coatings, as noted in the Part 1.2 Summary of Specification Section 09 96 00 - High-Performance Coatings.

F. Clarifications

Attachments:

Specifications:

None

Drawings:

530-A-20

530-A-23

530-A-28

530-A-36

530-A-37

530-A-38

530-A-39

Reference Documents:

DEP RACR Approval Letter

NPDES Permit

Co-Permittee Form

Groundwater Discharge Limits Subsection

Well Abandonment Reports:

AL MW-01

AL MW-07

AL MW-08

AL MW-09

AL MW-10

A-100

A-102

A-103

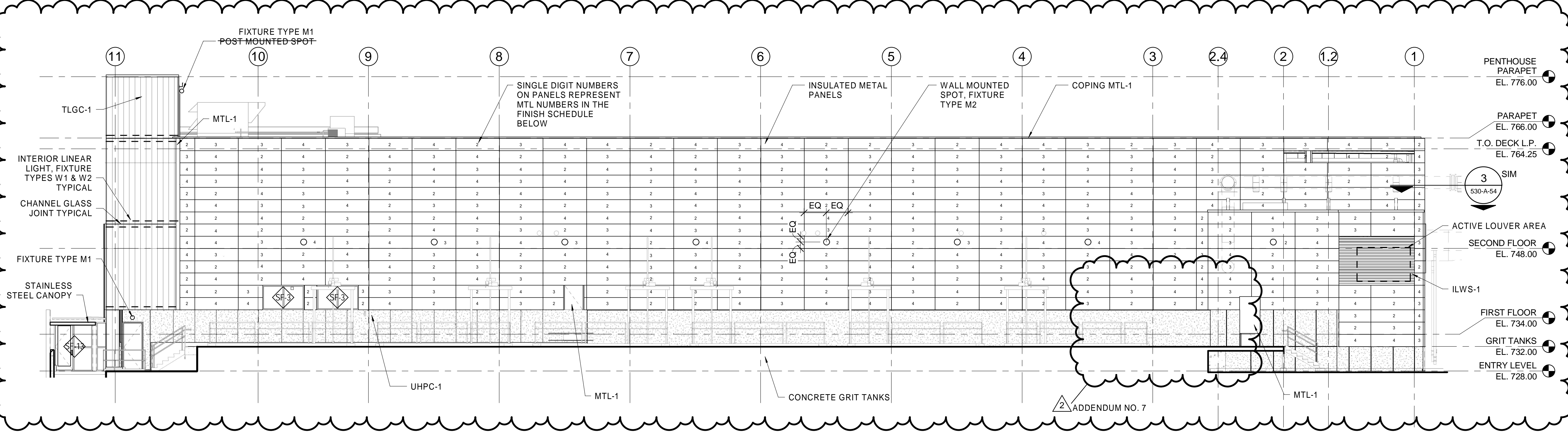
***** END OF ADDENDUM NO. 7 *****

Architectural Drawings

GENERAL SHEET NOTES

1. UHPC PANEL SUPPORT RAILS AND SUBGIRT SYSTEMS TO HAVE MATTE BLACK FINISH.

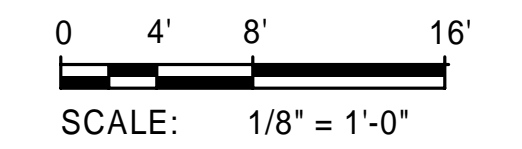
1 LIGHTING REVISIONS



NORTH ELEVATION 1
SCALE: 1/8" = 1'-0" 530-A-06

ARCHITECTURAL - EXTERIOR FINISH LIST

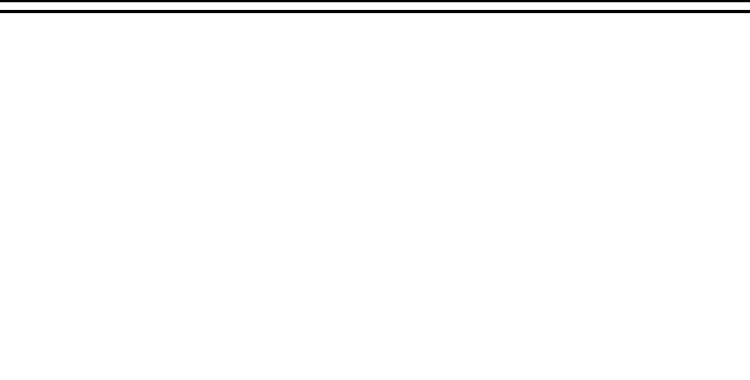
NAME	MATERIAL	FINISH
ILWS-1	INTEGRATED LOUVER WALL SYSTEM	CENTRIA #9946 "SILVERSMITH"
MTL-1	VERTICAL REVEAL PANELS, COPING, CURTAINWALL, STOREFRONT MULLIONS, OTHER METAL FABRICATIONS AS NOTED	CENTRIA #9946 "SILVERSMITH"
MTL-2	3" INSULATED METAL PANEL 24" WIDE	CENTRIA VERSACOR ELITE PF COATING 439EZ7833M "ELITE LIME"
MTL-3	3" INSULATED METAL PANEL 24" WIDE	PPG DURANAR ULTRA-COOL SUNSTORM COATING BN8L102B "BLUE"
MTL-4	3" INSULATED METAL PANEL 24" WIDE	PPG DURANAR VARI-COOL COATING 865X13 "KALEIDOSCOPE"
MTL-5	3" INSULATED METAL PANEL 12" WIDE	CENTRIA #9946 "SILVERSMITH"
TLGC-1	TRANSLUCENT LINEAR CHANNEL GLASS SYSTEM	GLASS AS SPECIFIED
UHPC-1	ULTRA HIGH PERFORMANCE CONCRETE PANEL	KORSA TEXTURE: ROUGH 2, AGGREGATE: #A02, COLOR: "CUSTOM WHITE", FINISH: MEDIABLAST, SEALER: MICROSEAL
UHPC-2	ULTRA HIGH PERFORMANCE CONCRETE PANEL	TEXTURE: SMOOTH, COLOR: "BONE 78", FINISH: MEDIABLAST, SEALER: MICROSEAL



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2	02/03/21	ADDENDUM NO. 7	



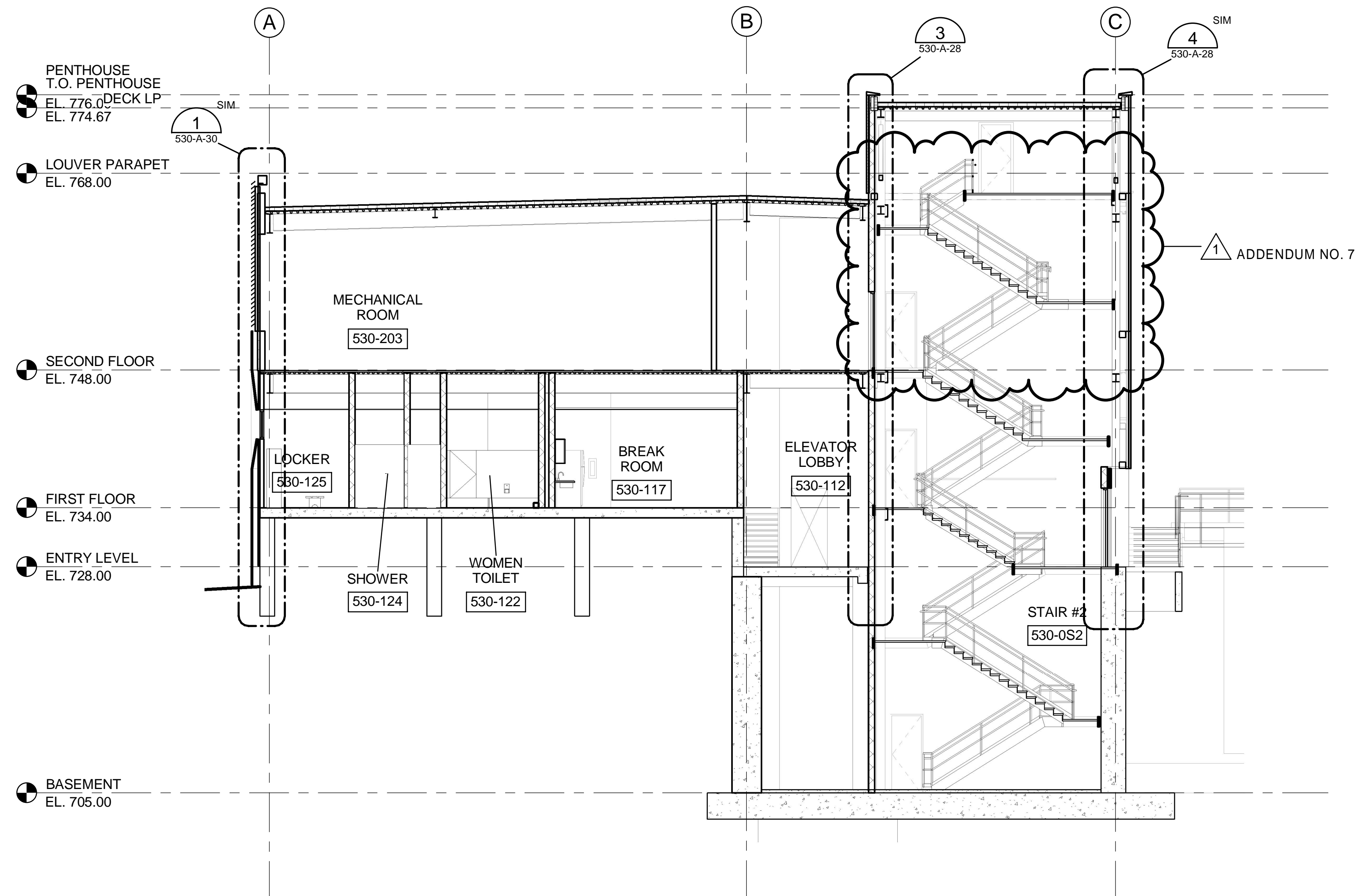
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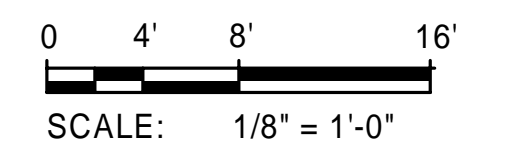
ALLEGHENY COUNTY SANITARY AUTHORITY
WASTEWATER TREATMENT PLANT
EAST HEADWORKS

530-A-20
EAST HEADWORKS
NORTH ELEVATION

Contract:	1729
CAD File Name:	530-A-20.DGN
Date:	OCTOBER 2020
Sheet:	85 of 645



PART C SECTION 1
SCALE: 1/8" = 1'-0" 530-A-05



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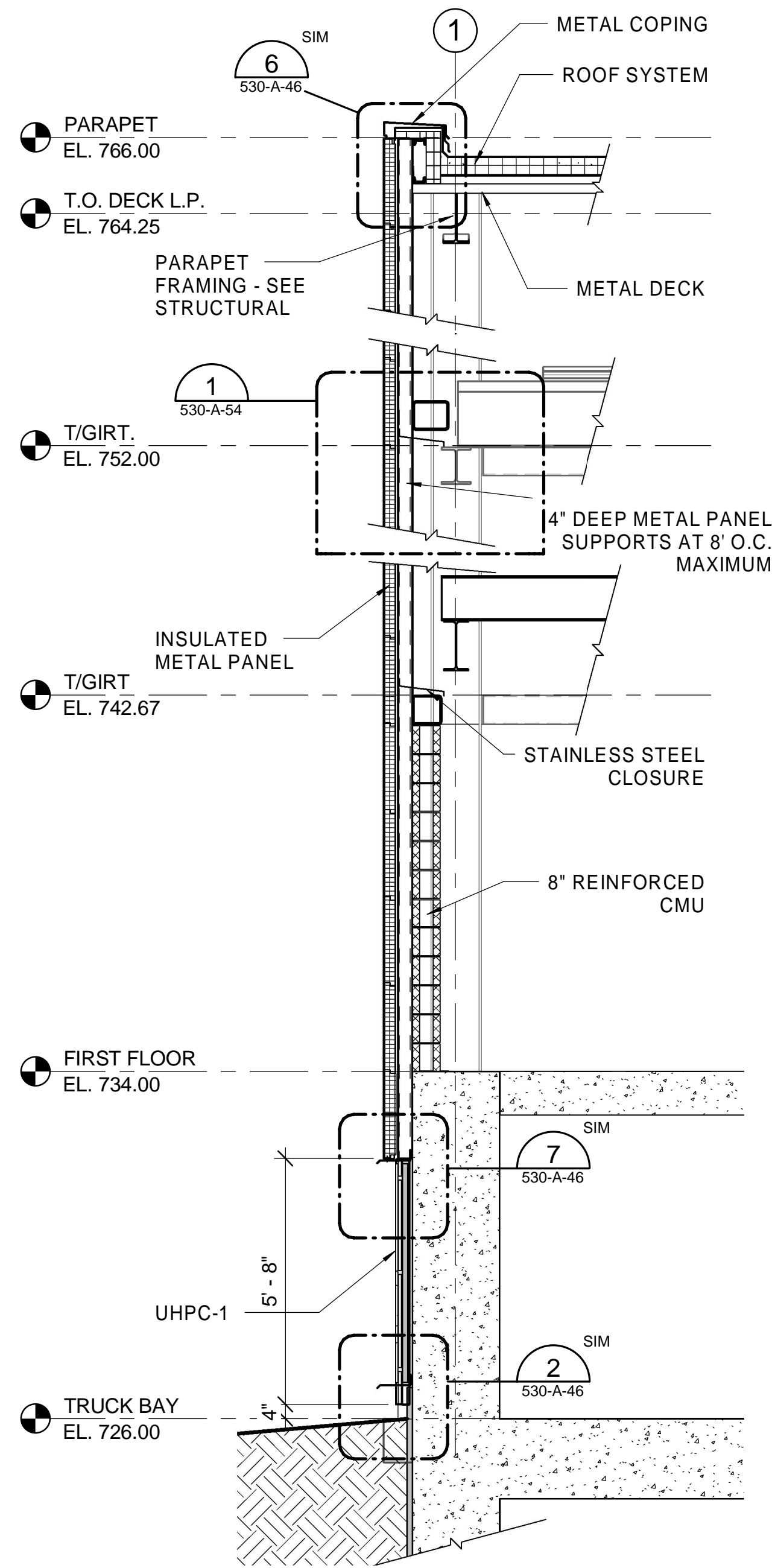
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WASTEWATER TREATMENT PLANT
EAST HEADWORKS

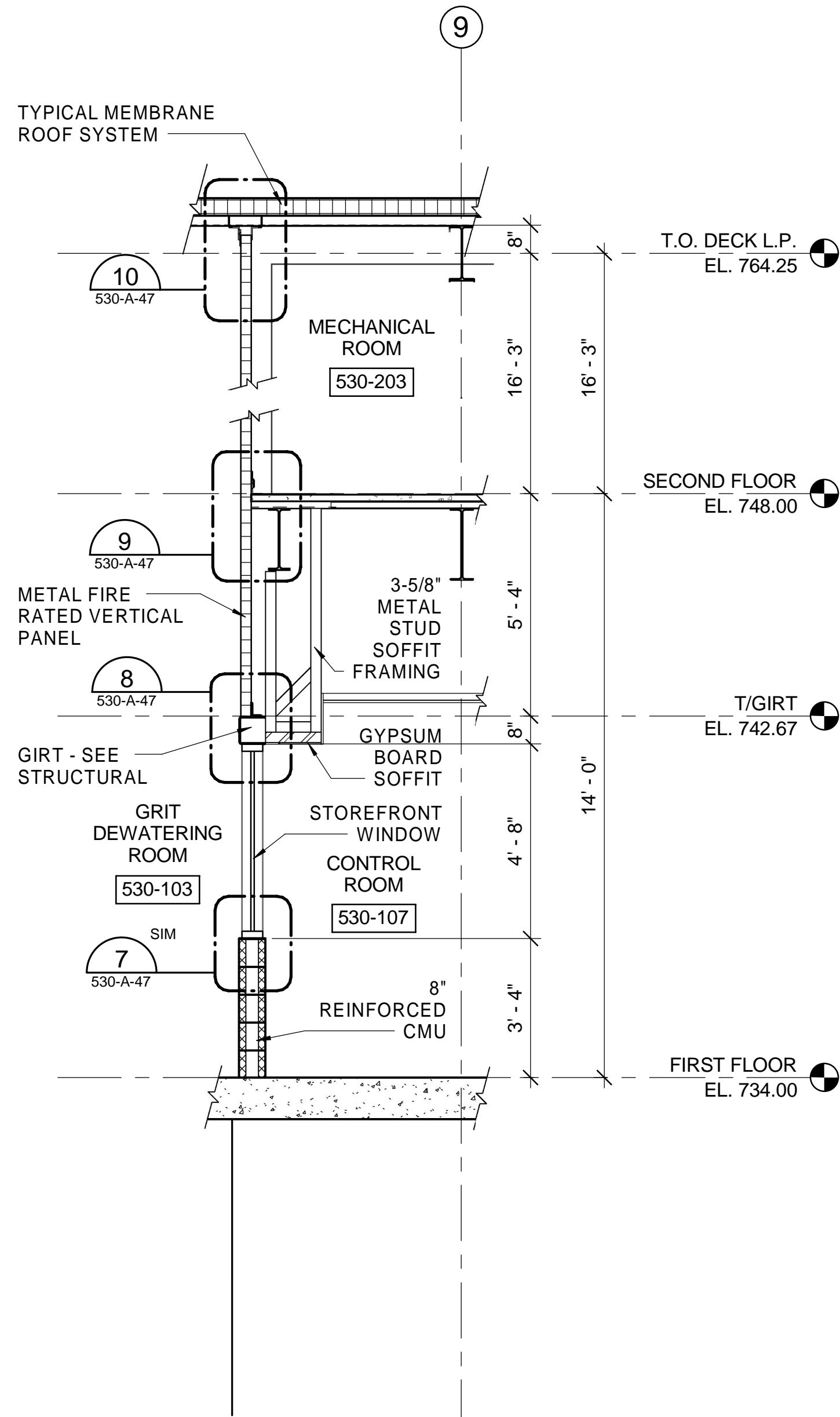
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EAST HEADWORKS
BUILDING SECTIONS**

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CAD File Name:	530-A-23.DGN
Date:	OCTOBER 2020
Sheet:	88 of 645

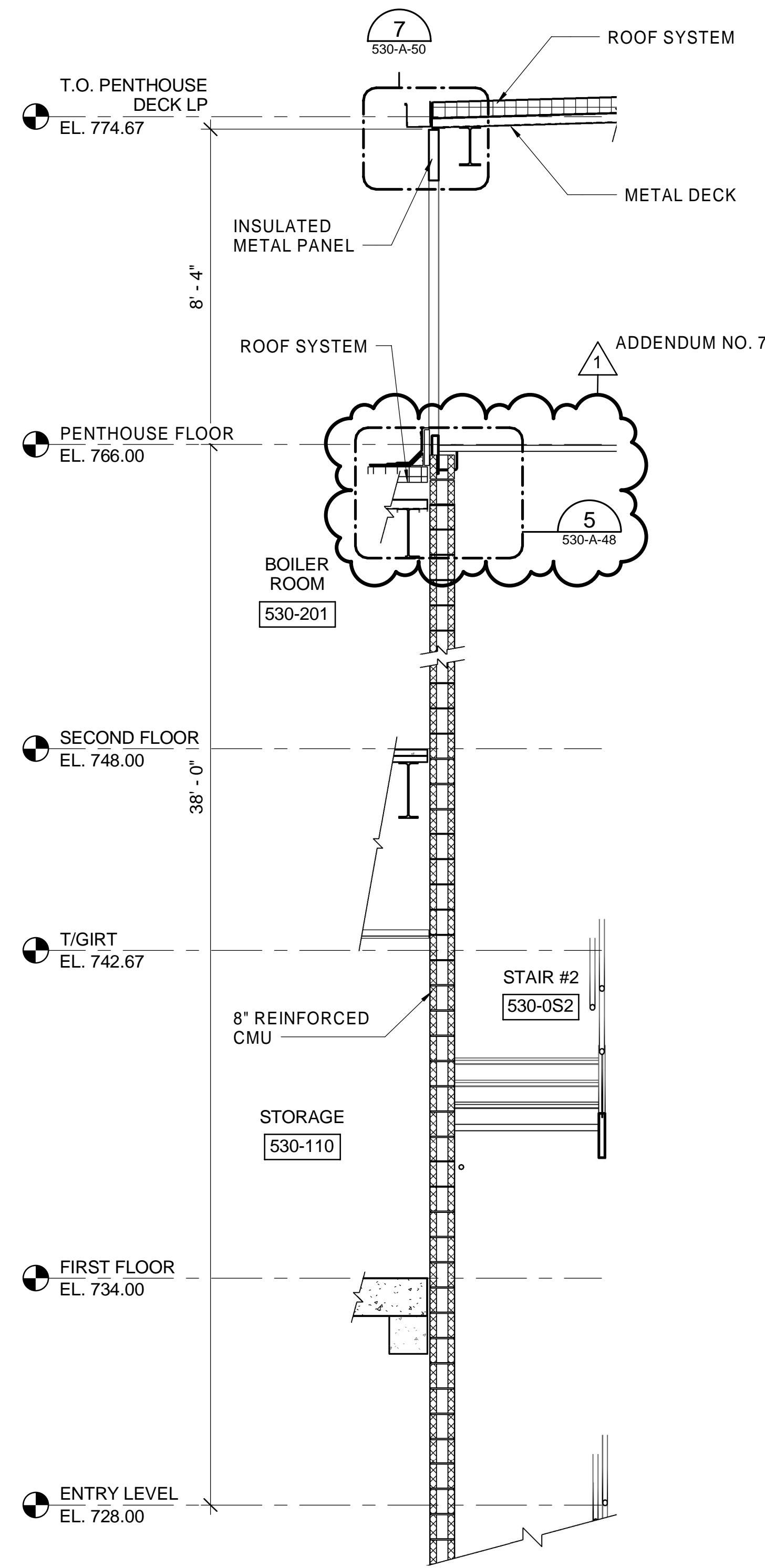
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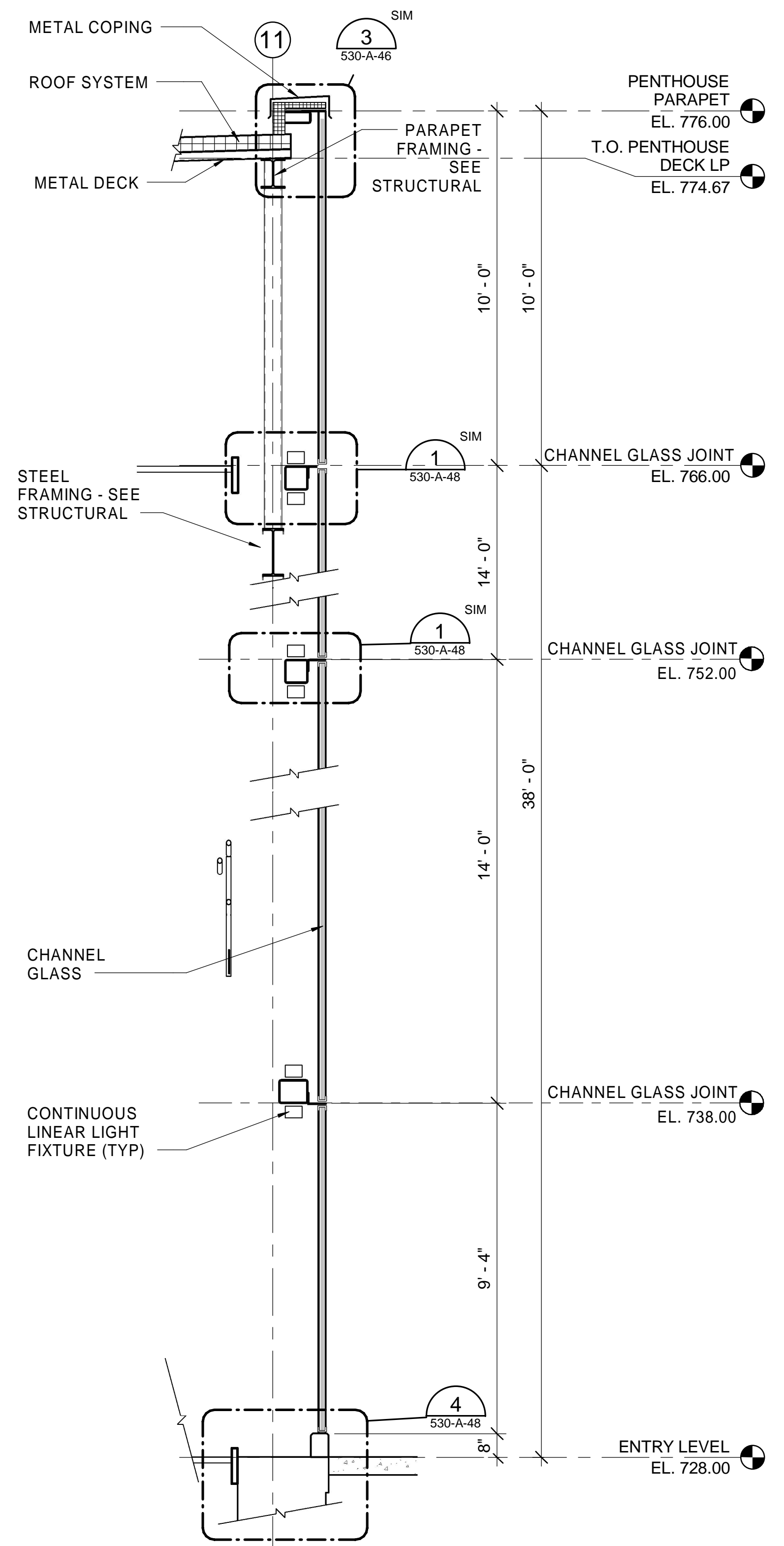
WALL SECTION 1
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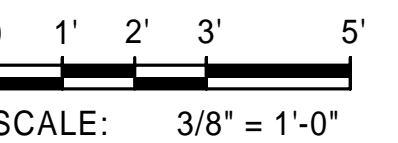
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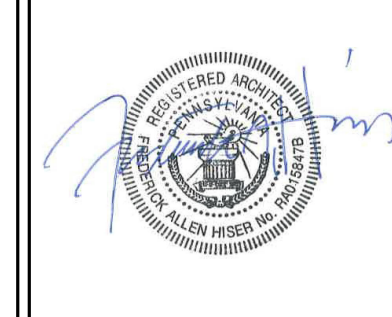
WALL SECTION 3
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WALL SECTION 4
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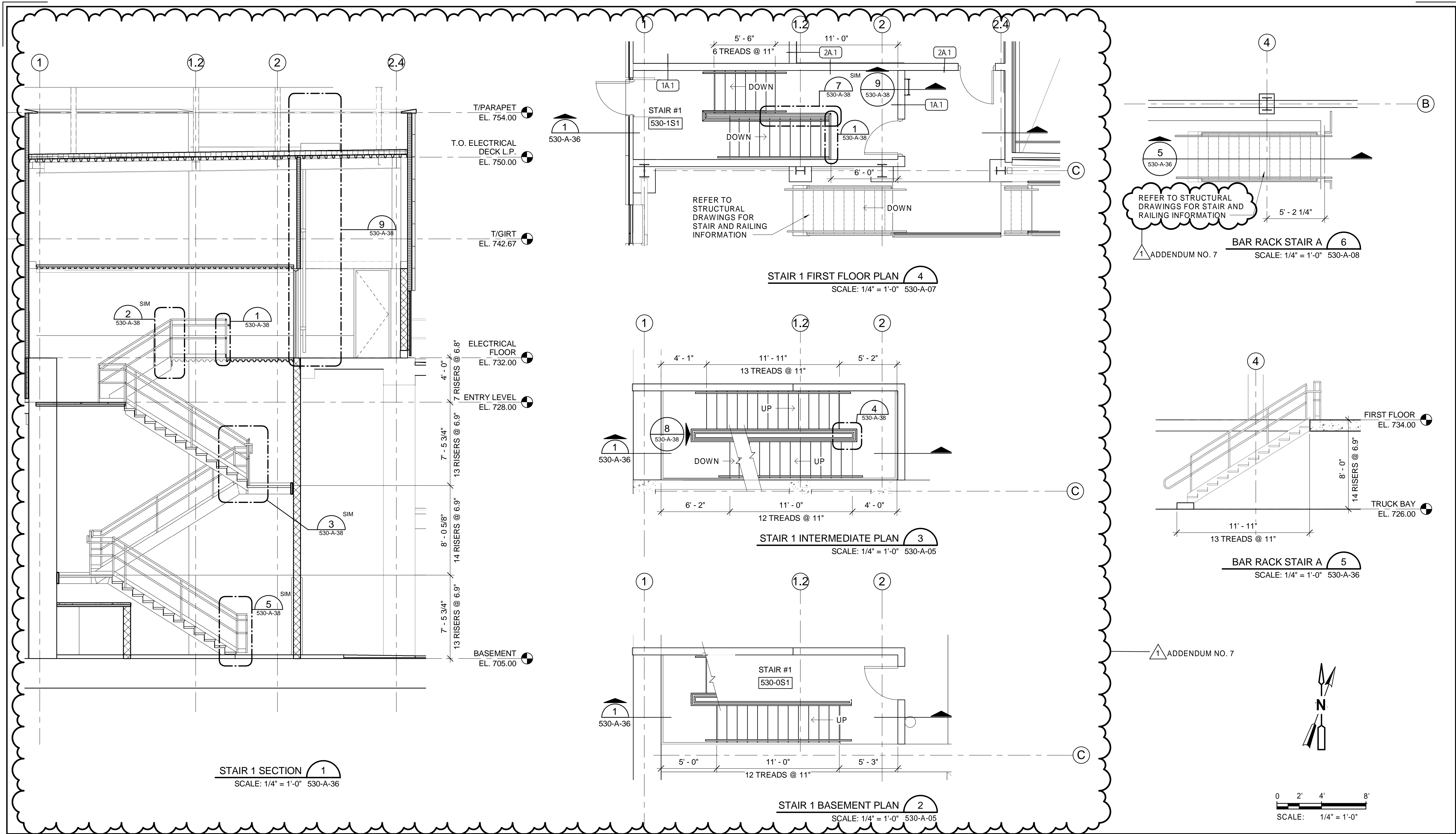
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EAST HEADWORKS

**530-A-28
EAST HEADWORKS
WALL SECTIONS**

Contract:	1729
CAD File Name:	530-A-28.DGN
Date:	OCTOBER 2020
Sheet:	93 of 645

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STAIR 1 SECTION 1
SCALE: 1/4" = 1'-0" 530-A-36

STAIR 1 FIRST FLOOR PLAN 4
SCALE: 1/4" = 1'-0" 530-A-07

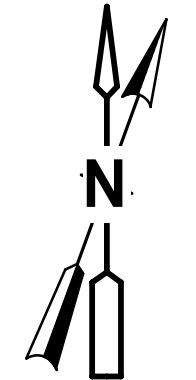
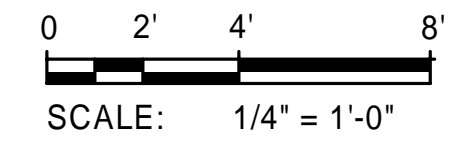
STAIR 1 INTERMEDIATE PLAN 3
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STAIR 1 BASEMENT PLAN 2
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BAR RACK STAIR A 6
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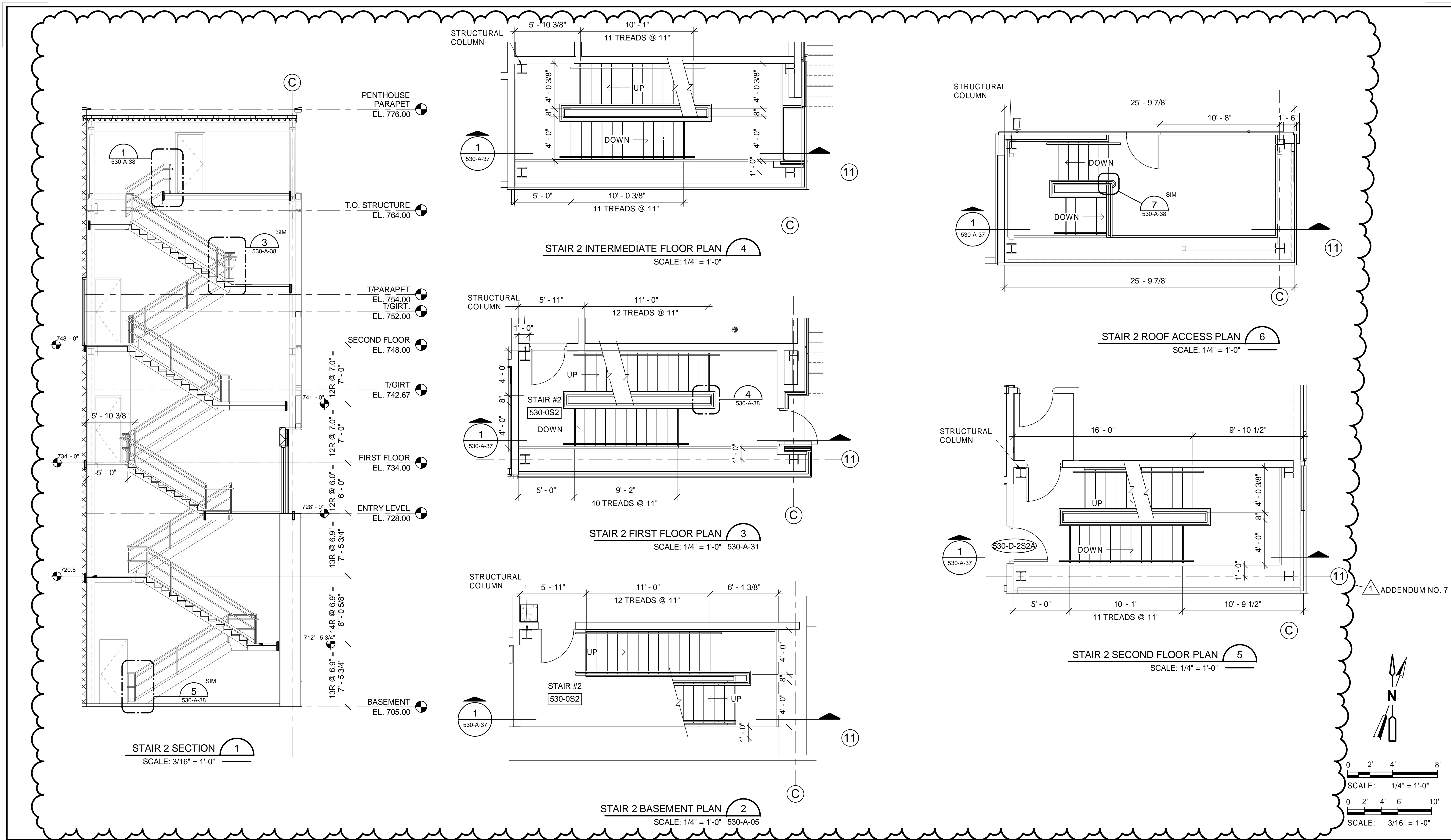
BAR RACK STAIR A 5
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1 ADDENDUM NO. 7




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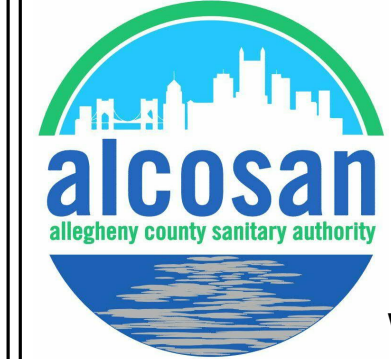
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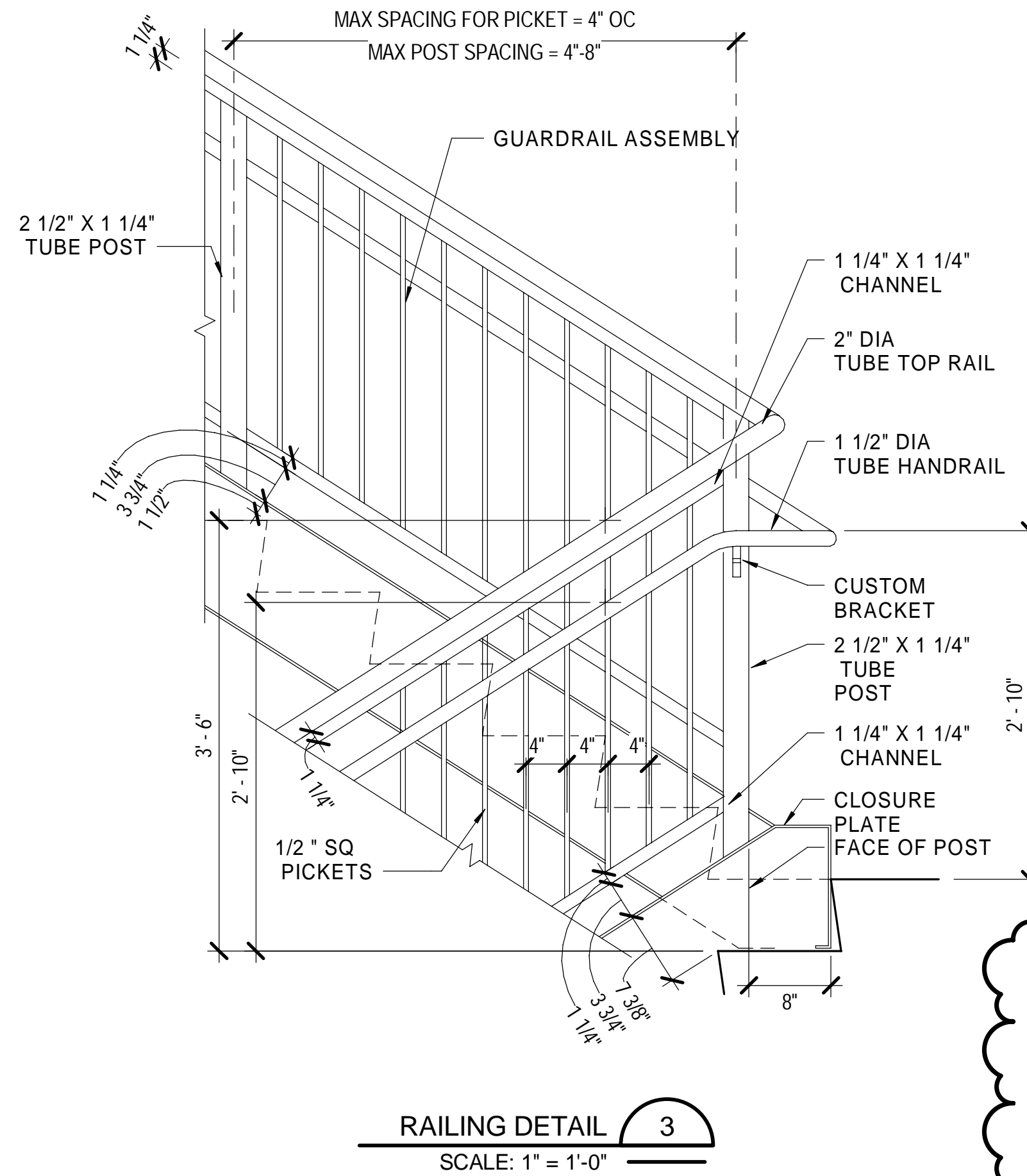
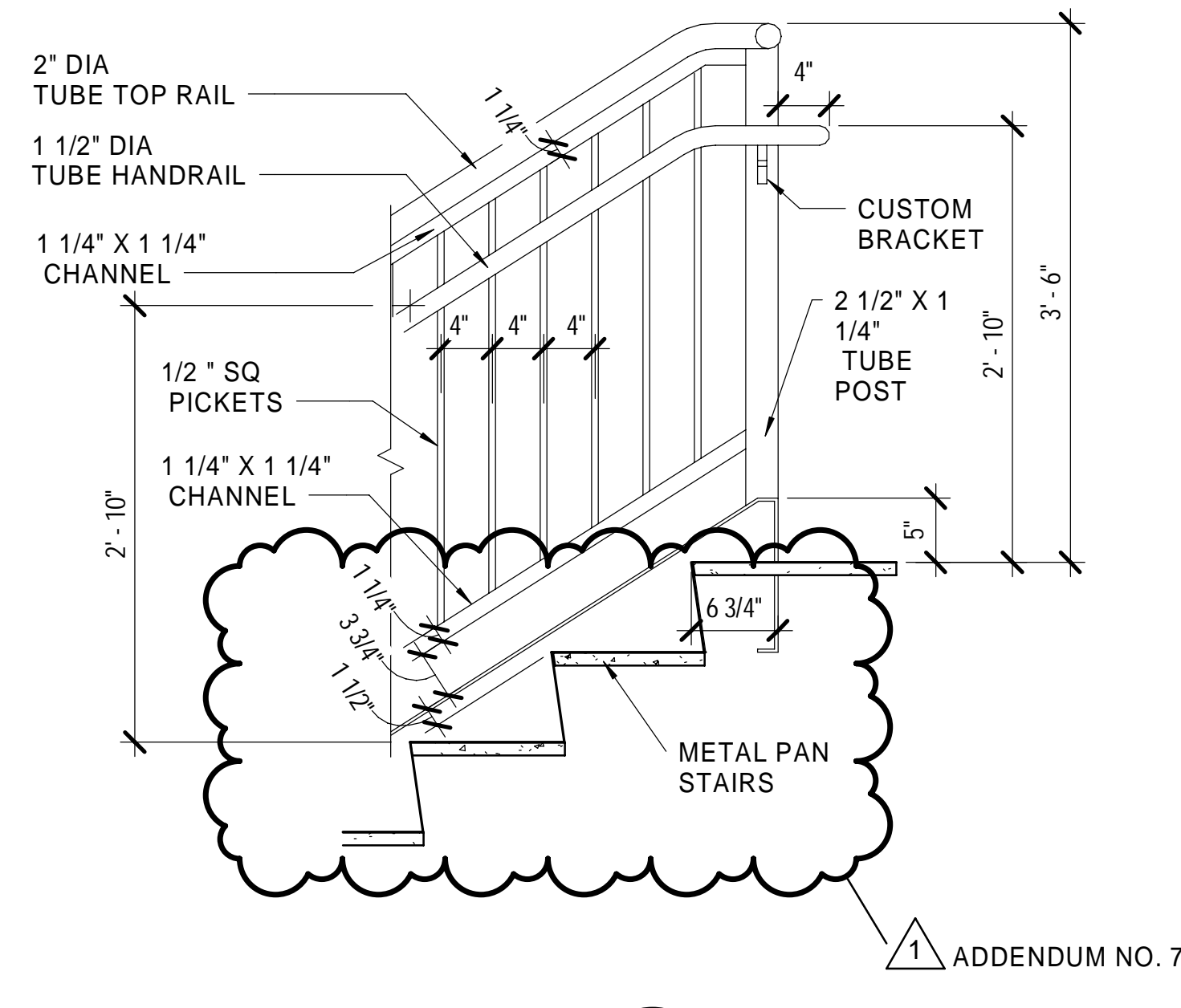
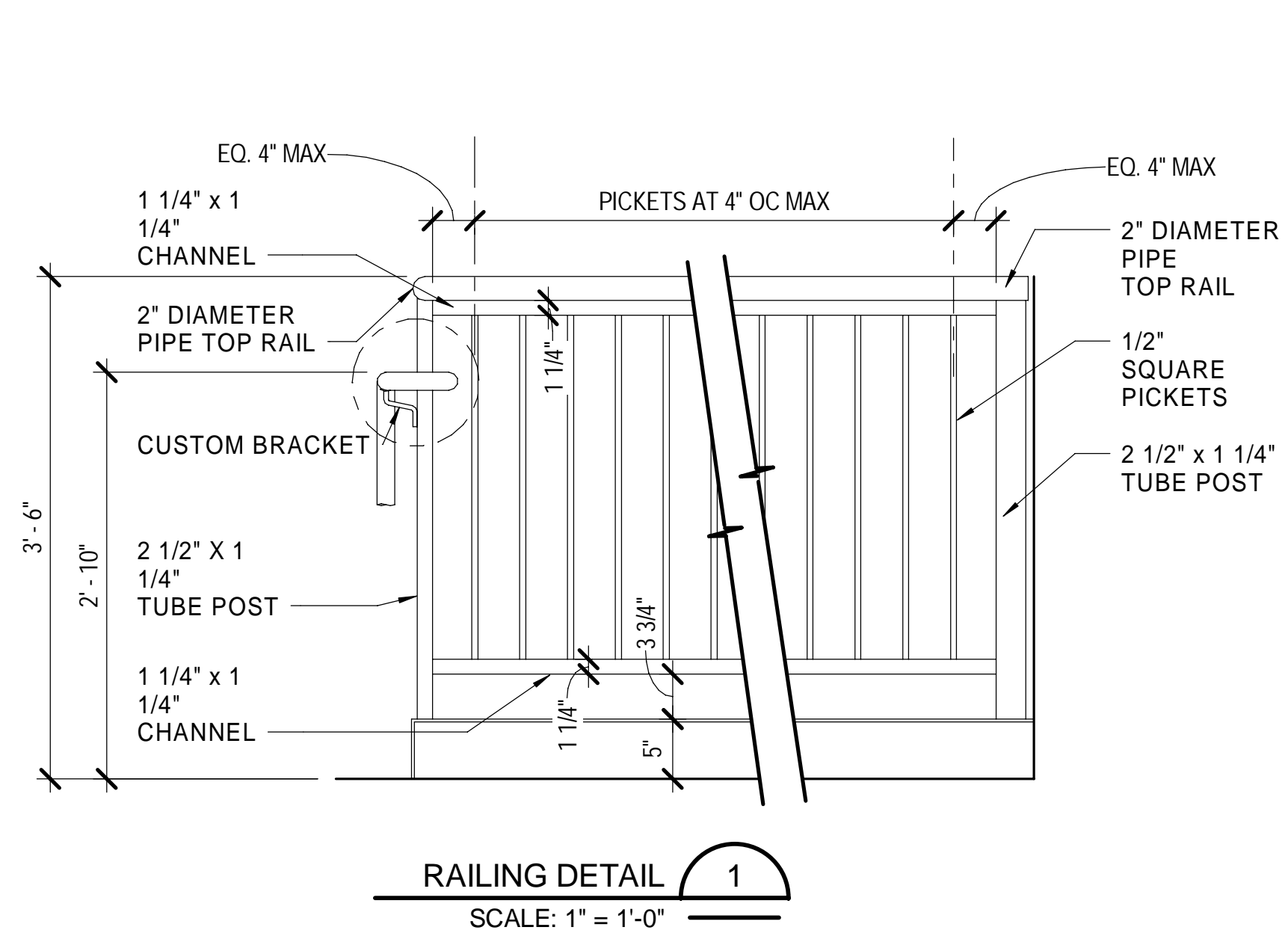
3300 PREBLE AVE.
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(412) 766 - 4810
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ALLEGHENY COUNTY SANITARY AUTHORITY
WASTEWATER TREATMENT PLANT
EAST HEADWORKS

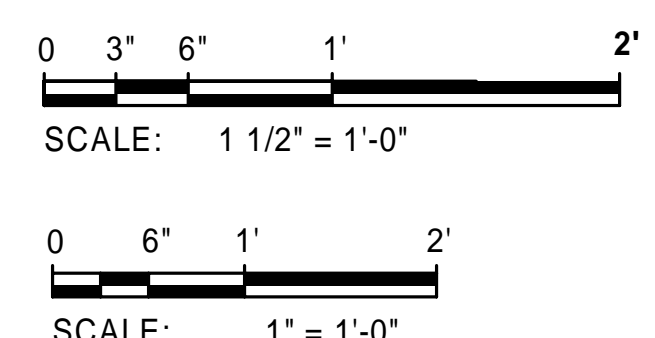
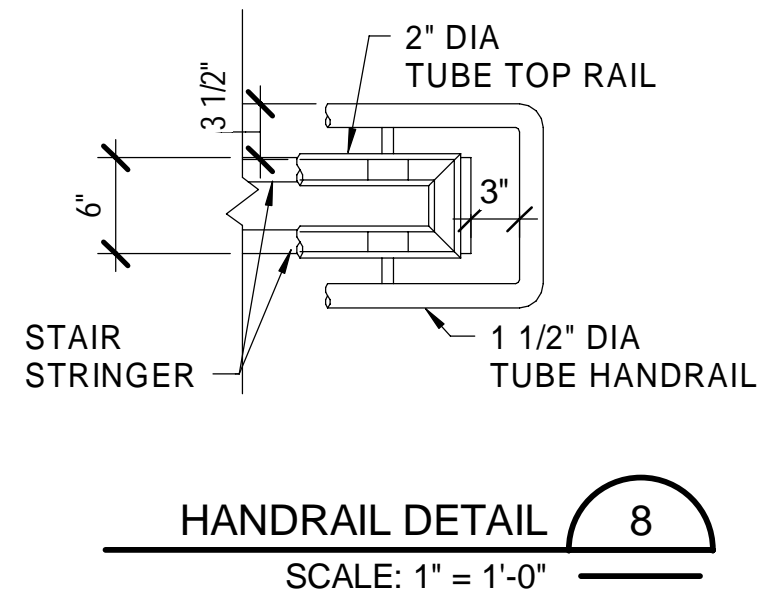
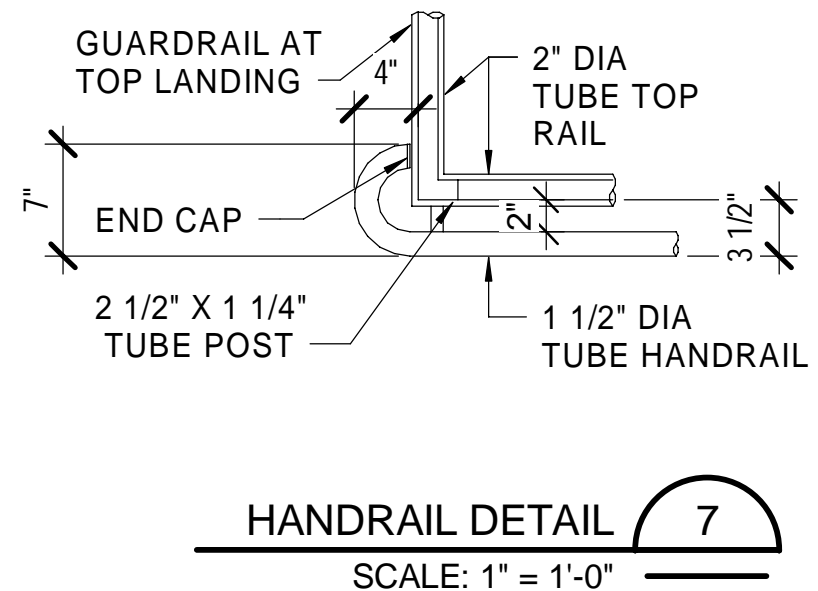
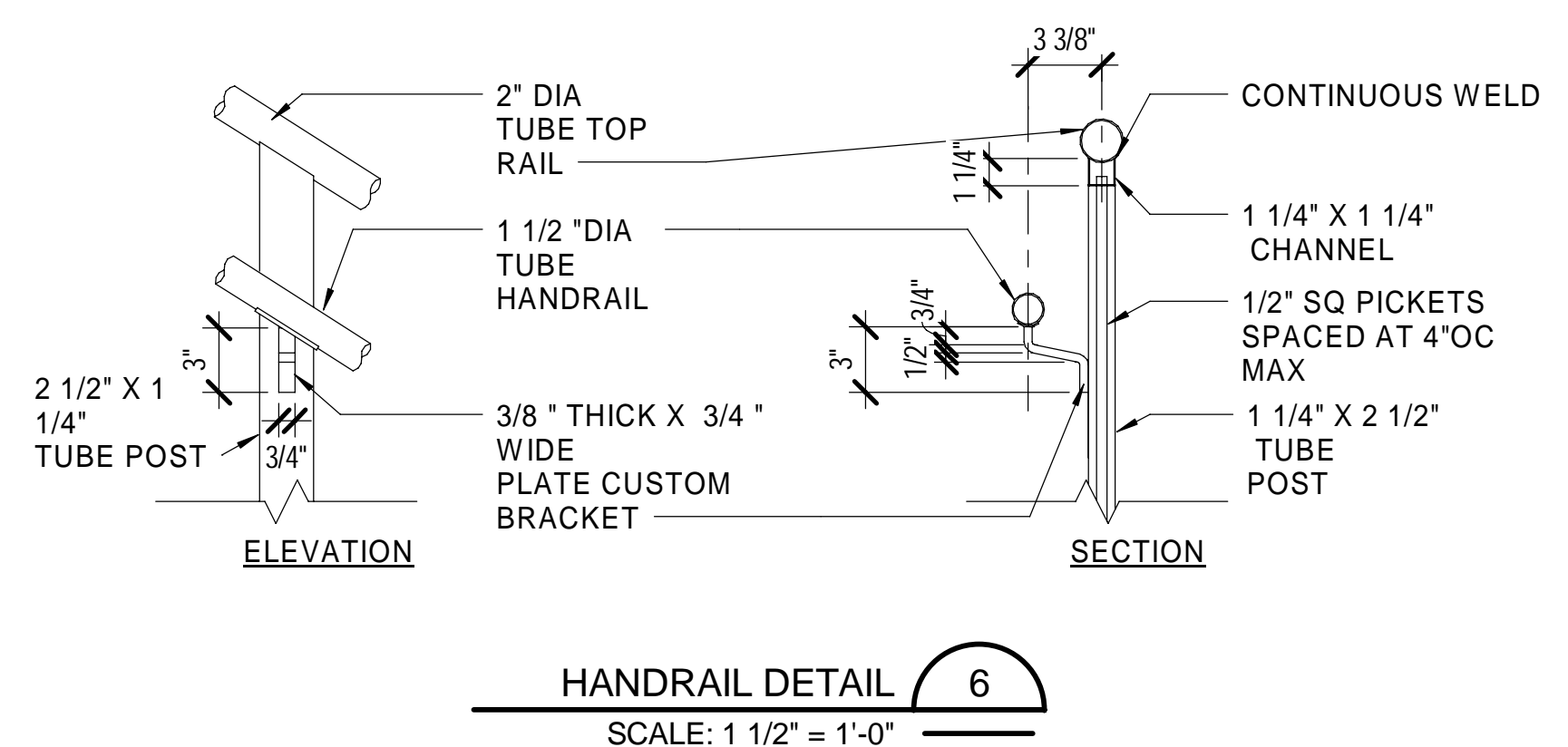
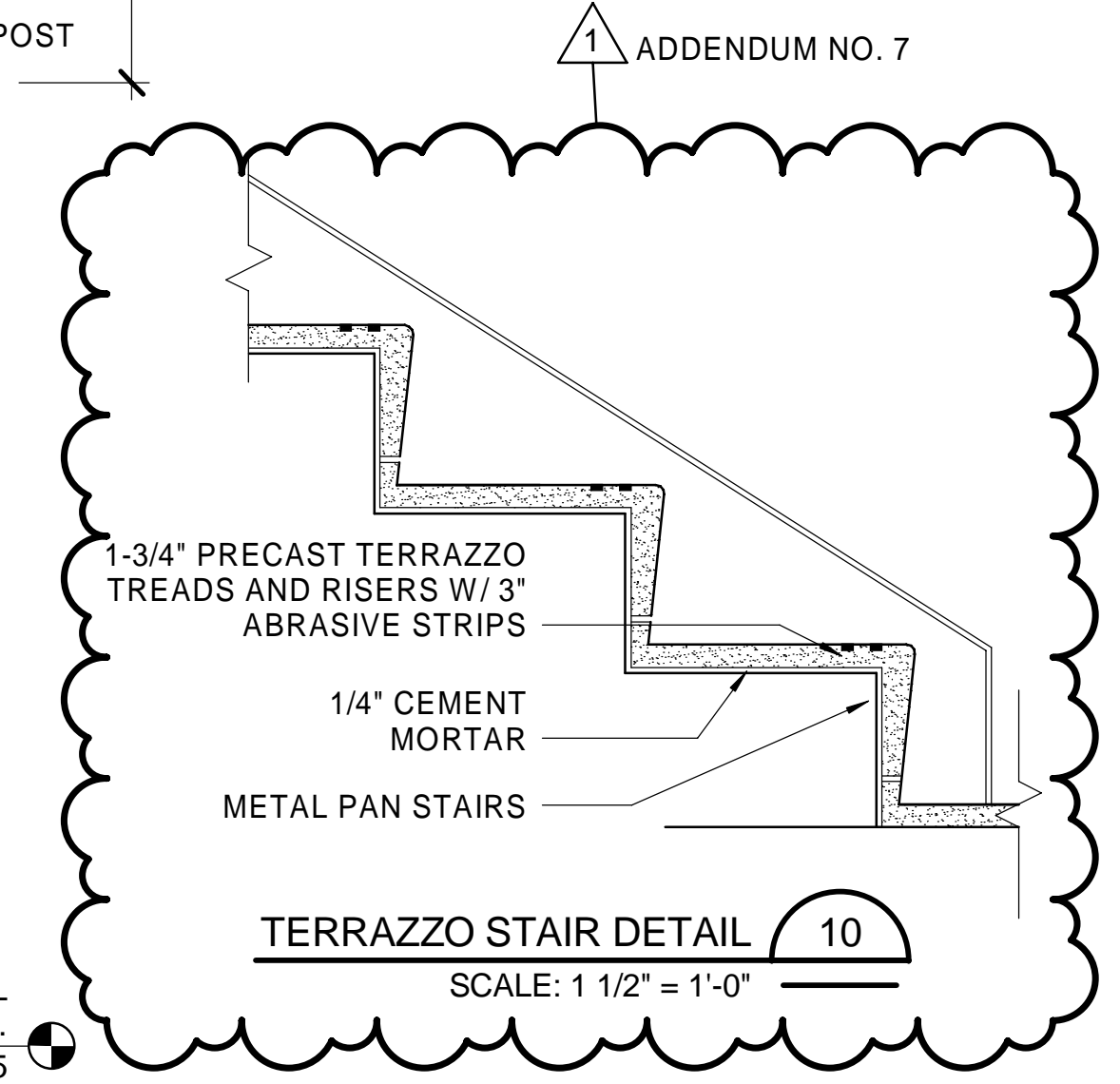
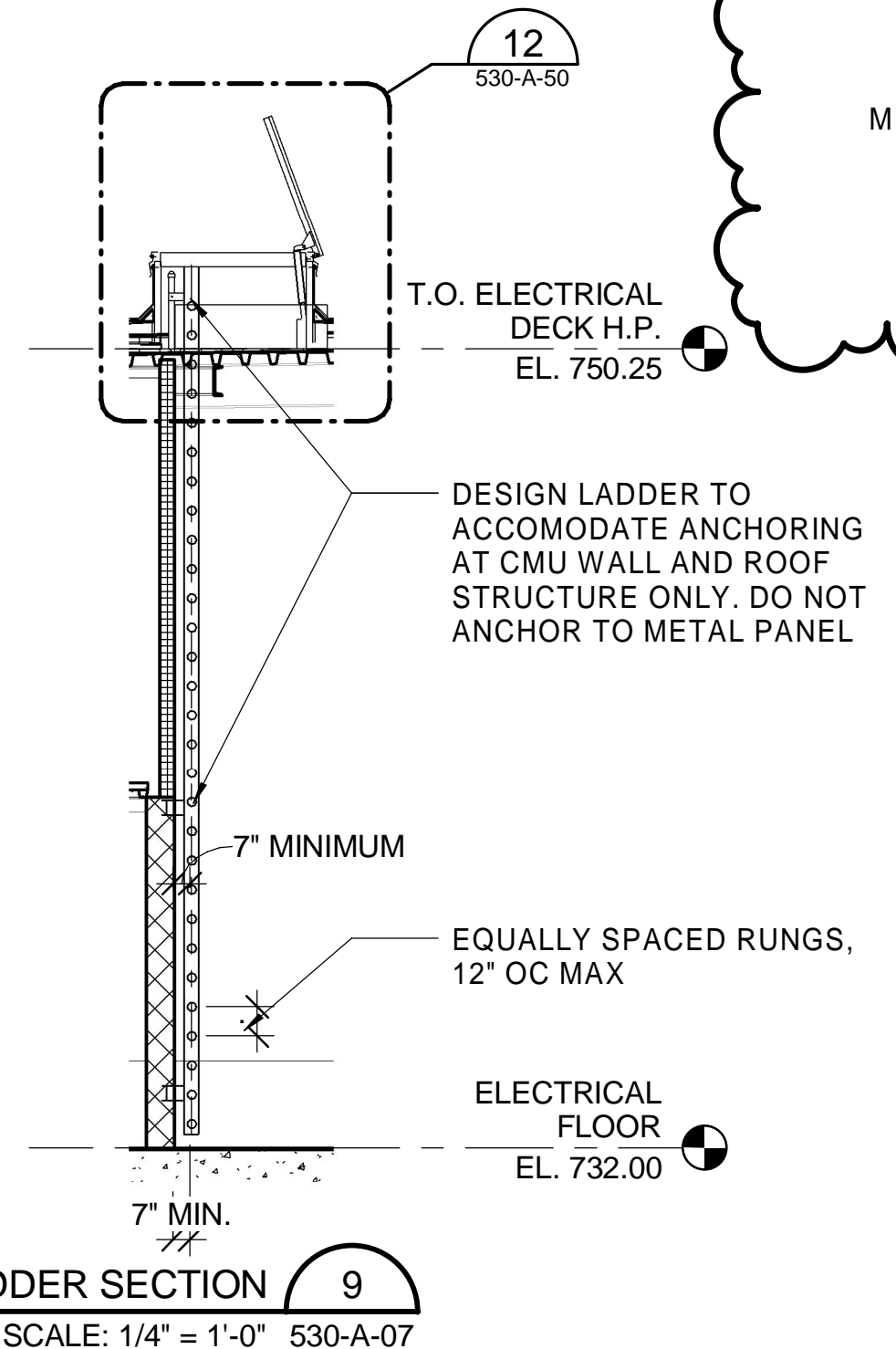
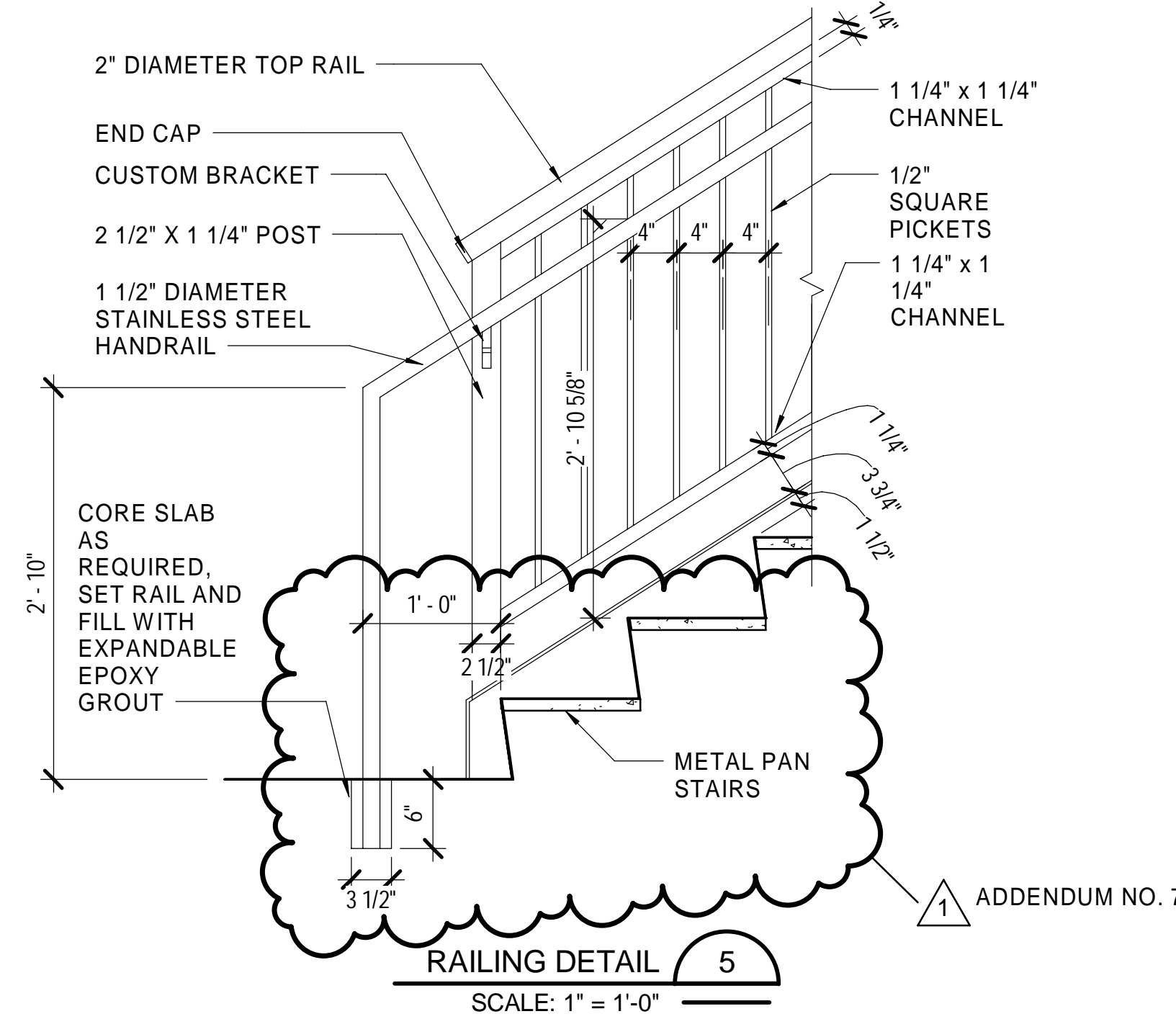
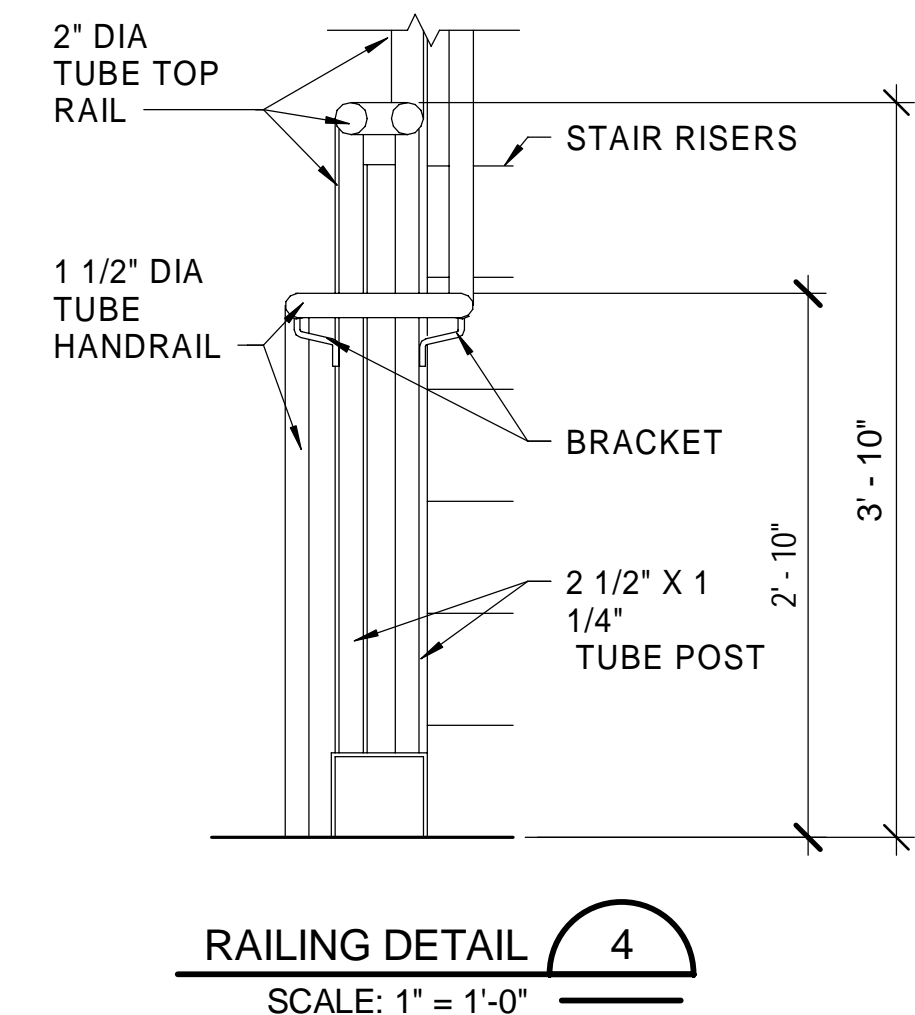
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EAST HEADWORKS
STAIR PLANS, SECTIONS, AND DETAILS

Contract: 1729
CAD File Name: 530-A-37.DGN
Date: OCTOBER 2020
Sheet: 102 of 645

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- GENERAL SHEET NOTES**
1. STAIR STRINGERS AND STRUCTURE TO BE STEEL PAINTED PT-1
 2. GUARD ASSEMBLIES TO BE ANODIZED ALUMINUM.
 3. HANDRAILS TO BE STAINLESS STEEL.



Designed by:	REVISION			
ECR	REV No.	DATE	DESCRIPTION	APPV
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KEH	1	02/03/21	ADDENDUM NO. 7	
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FAH				

WRA
Whitman, Requardt & Associates, LLP
801 South Caroline Street, Baltimore, MD 21231

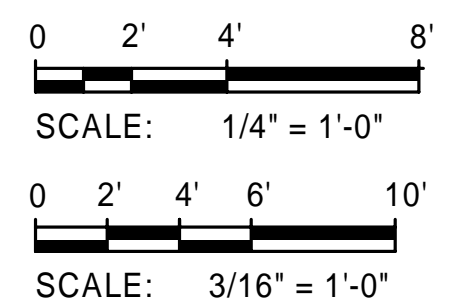
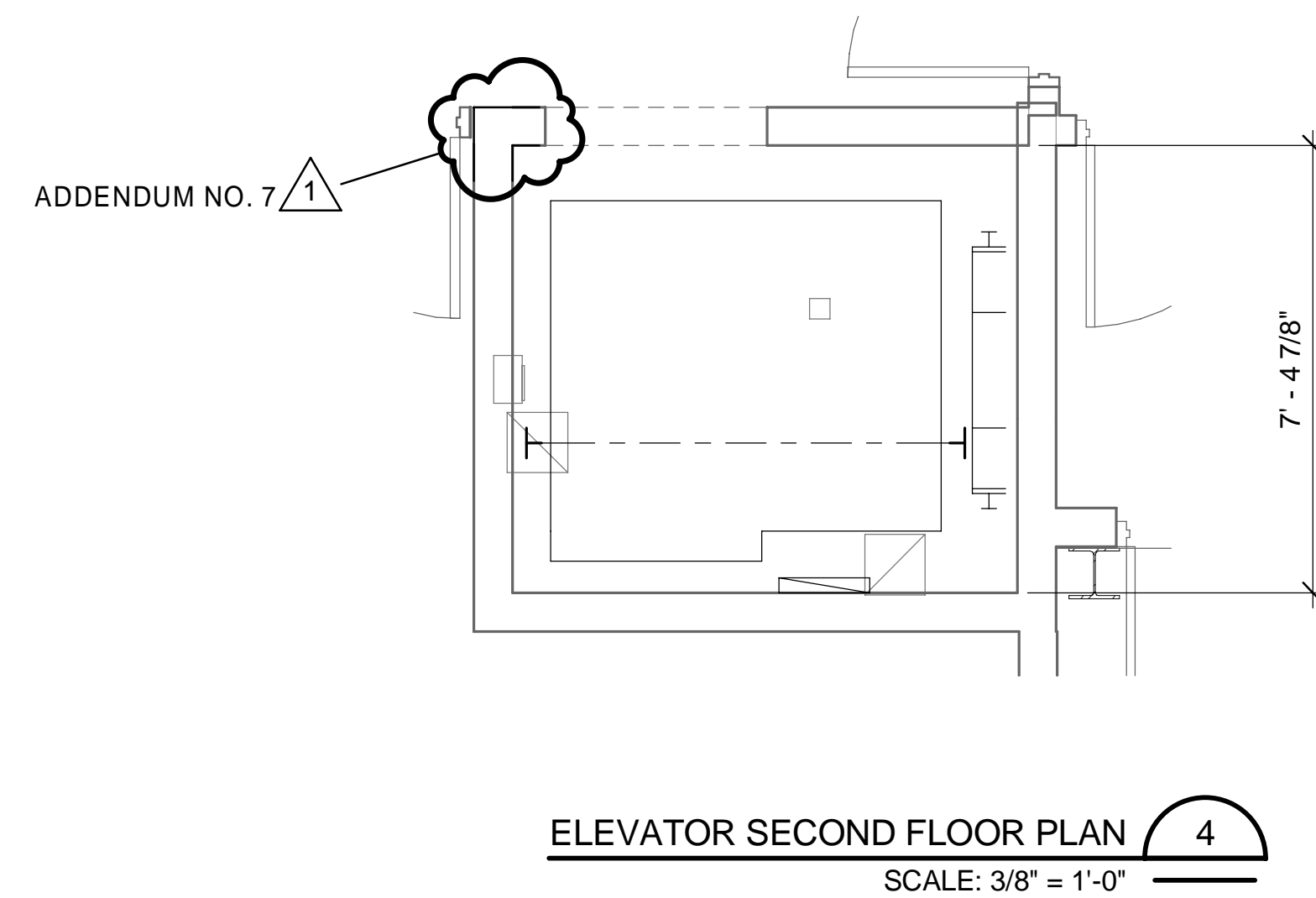
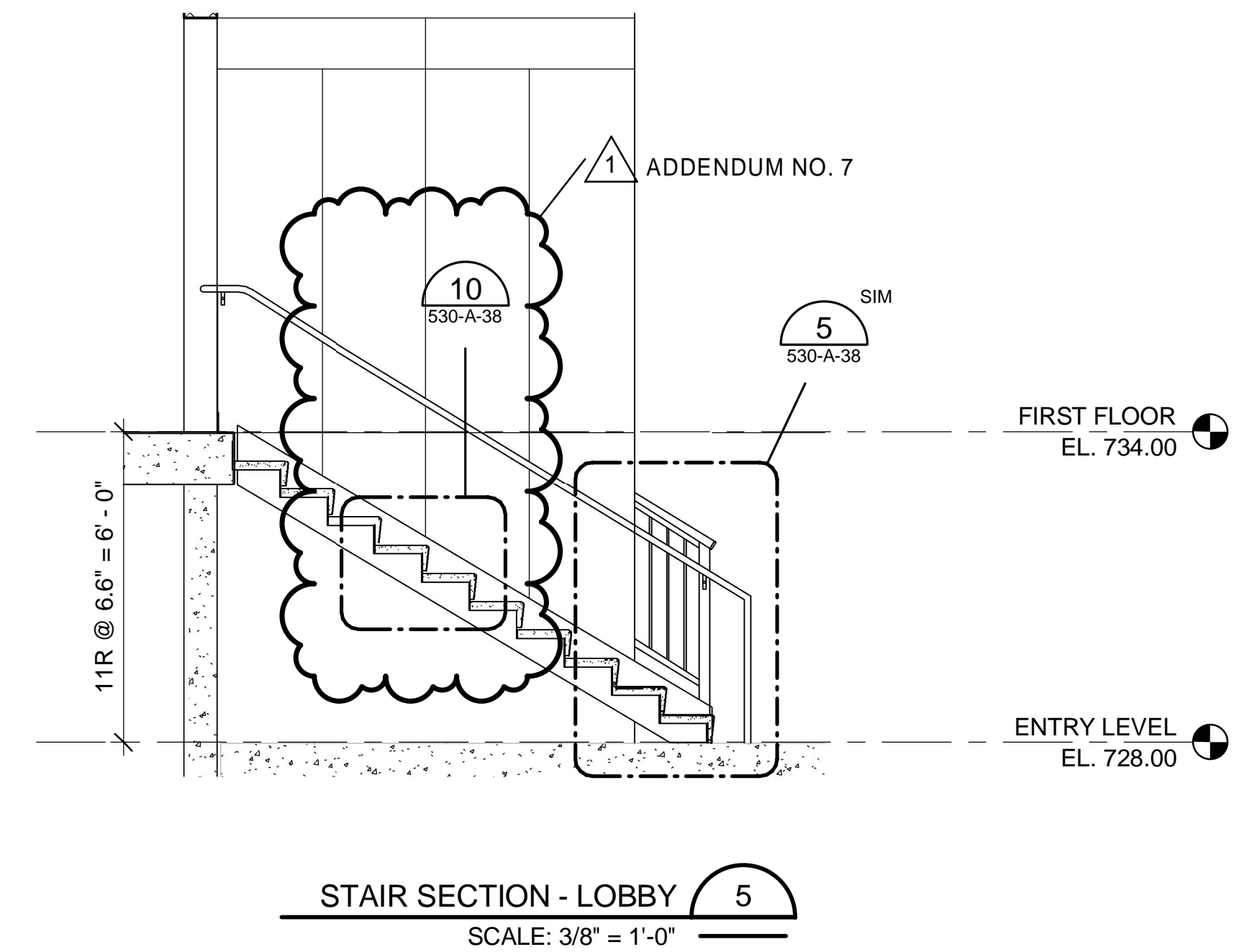
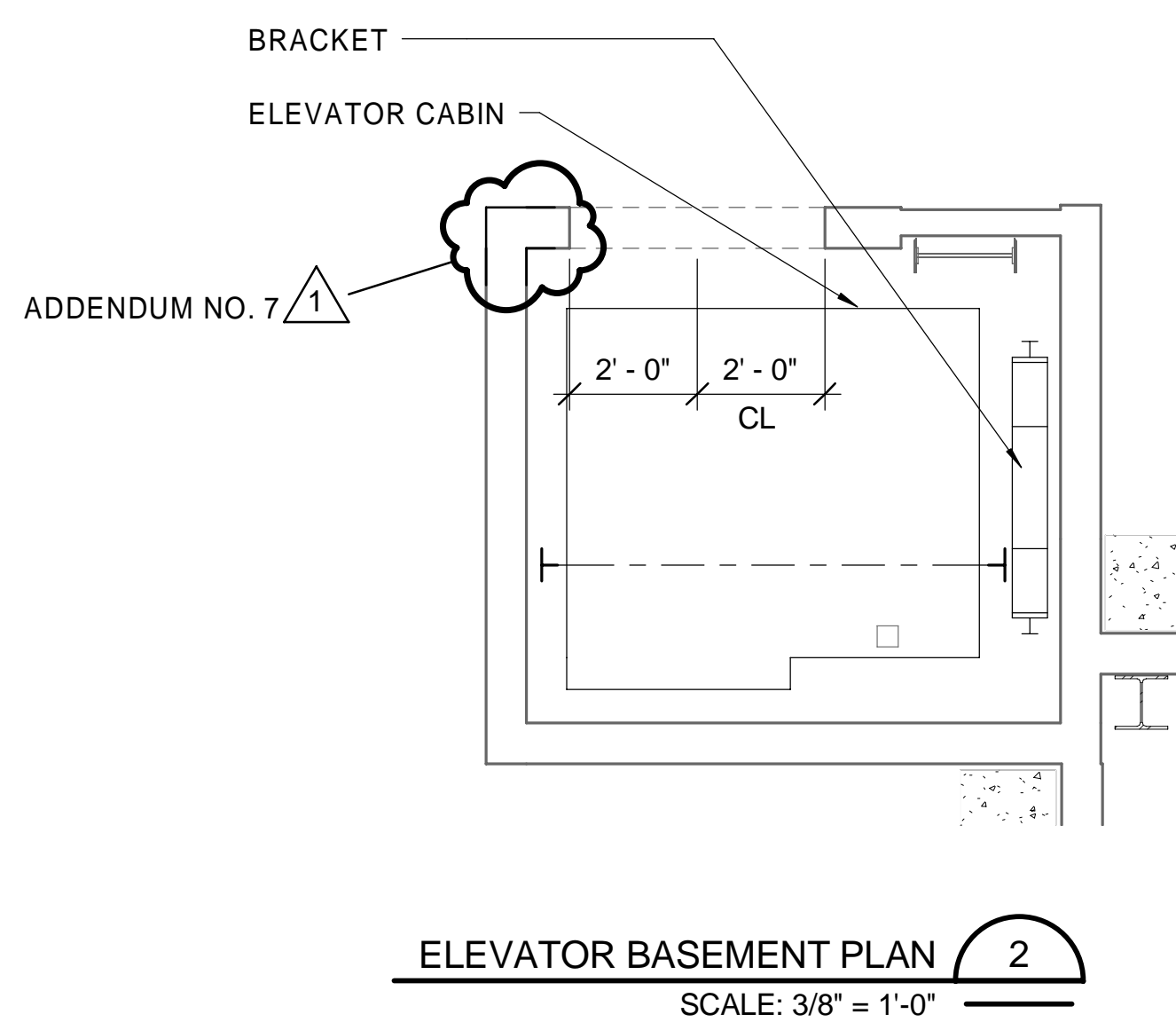
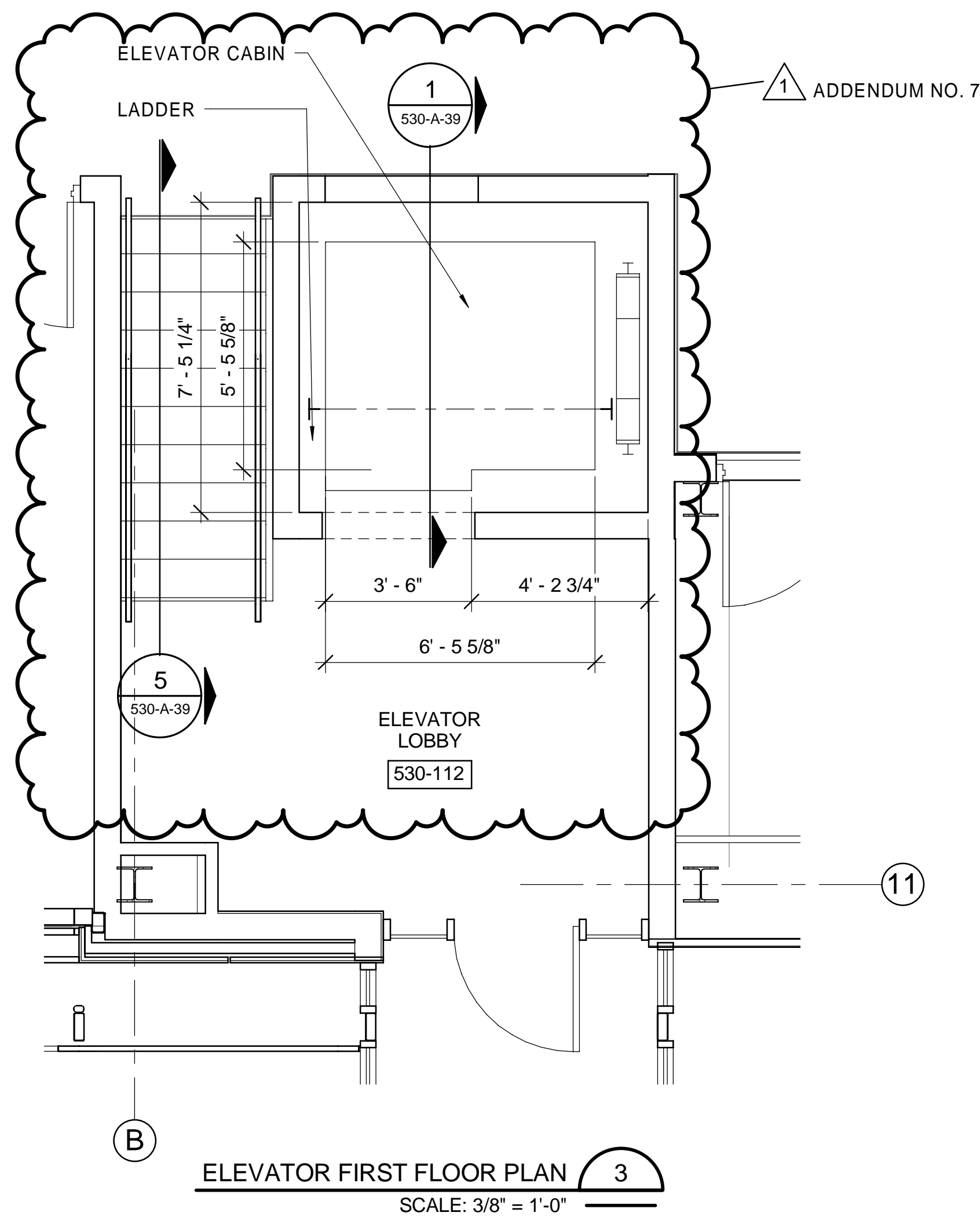
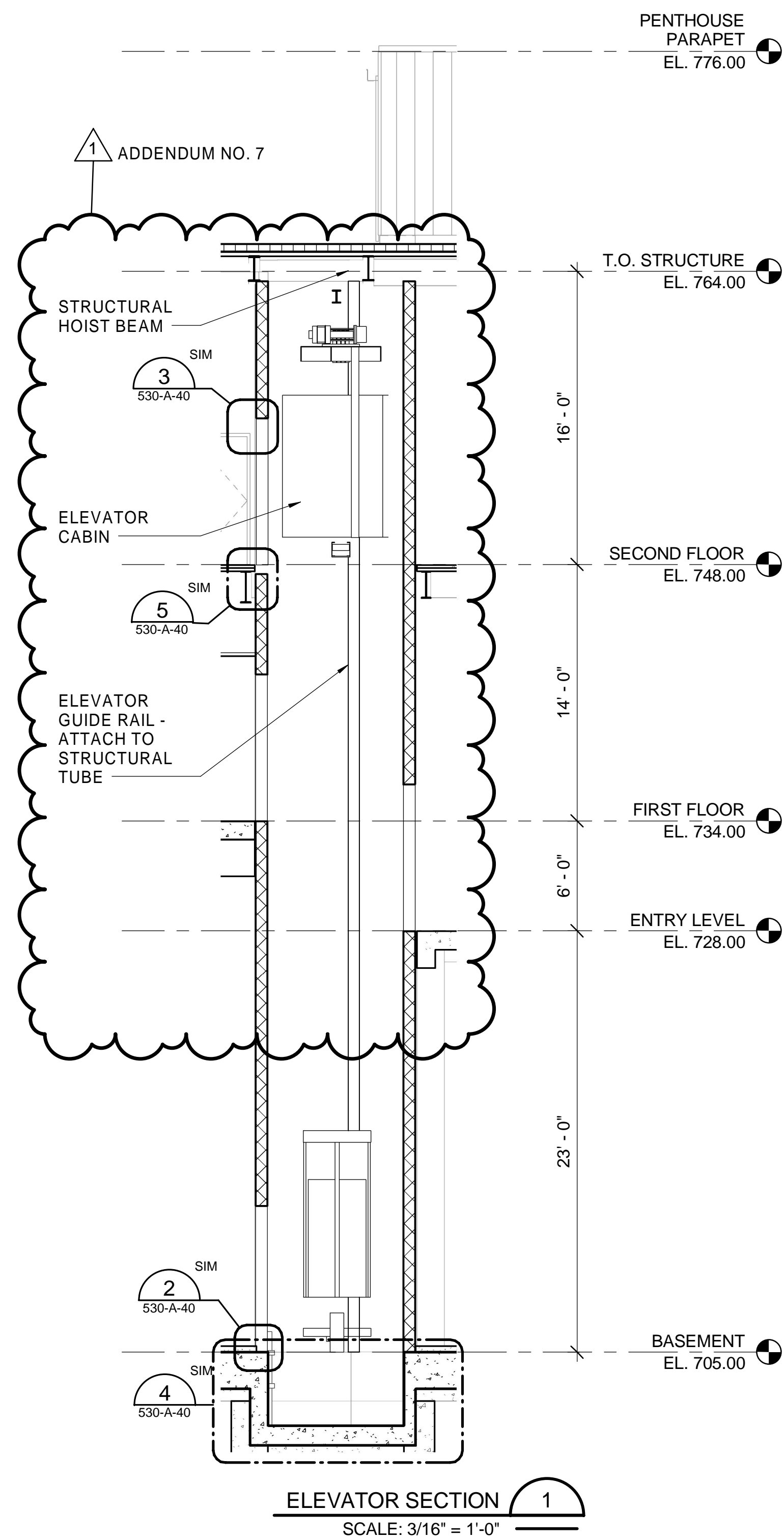
ALLEGHENY COUNTY SANITARY AUTHORITY

alcosan
alleggheny county sanitary authority
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ALLEGHENY COUNTY SANITARY AUTHORITY
WASTEWATER TREATMENT PLANT
EAST HEADWORKS
530-A-38
EAST HEADWORKS
STAIR DETAILS

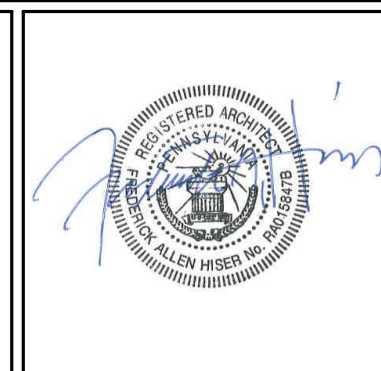
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Whitman, Requardt & Associates, LLP
801 South Caroline Street, Baltimore, MD 21231



alcosan
allegheny county sanitary authority

ARLETTA SCOTT WILLIAMS
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ALLEGHENY COUNTY SANITARY AUTHORITY
WASTEWATER TREATMENT PLANT
EAST HEADWORKS

**530-A-39
EAST HEADWORKS
ELEVATOR PLANS, SECTION, & DETAILS**

Contract: 1729
CAD File Name: 530-A-39.DGN
Date: OCTOBER 2020
Sheet: 104 of 645

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DEP RACR Approval Letter



Southwest Regional Office

December 21, 2020

Delivered Electronically

John Findley
Allegheny County Sanitary Authority (ALCOSAN)
3300 Preble Avenue
Pittsburgh, Pa 15233

Re: Remedial Action Completion Report Approval of Statewide Health Standard
Storage Tanks System Release on July 6, 2018
Facility Name: ALCOSAN Wastewater Treatment Plant
Facility ID No: 02-16364
Incident No. 52161
3300 Preble Avenue
Pittsburgh, PA 15233
City of Pittsburgh, Allegheny County

Dear Mr. Findley:

The Department of Environmental Protection (DEP) has reviewed the October 2020 document titled Remedial Action Completion Report for the release referenced above. The document was prepared by Compliance Management International and submitted as a Remedial Action Completion Report (RACR) as required by 25 Pa. Code § 245.313.

The DEP approves the RACR in accordance with 25 Pa. Code § 245.313(c)(1) for the substances identified and remediated to a standard under the Land Recycling and Environmental Remediation Standards Act (Act 2) relating to this release. Chapter 5, Section 501 of Act 2, provides the liability protection where attainment of Act 2 cleanup standards is demonstrated. The cleanup liability protection provided by this chapter applies to the current and future owner or any other person who participated in the remediation; a person who develops or occupies the property; successor or assign of any person to whom liability protection applies; and a public utility to the extent the public utility performs activities on the identified property(ies).

The Statewide Health Standard for soil and groundwater has been attained.

The DEP recognizes that activity and use limitations as outlined in the Uniform Environmental Covenants Act (Act 68 of 2007), Title 27, Pa.C.S. Chapter 65 (UECA) are not required to meet and/or attain the Statewide Health Standard.

The DEP has determined that a Post-Remediation Care Plan (PRCP) is not necessary to meet and/or attain the Statewide Health Standard.

All site groundwater monitoring wells should be properly decommissioned in a manner consistent with the DEP's January 2019 Land Recycling Program Technical Guidance Manual. Any remaining wells shall be maintained. Please forward copies of the completed abandonment forms so that we may close our files for this facility.

If this facility was issued a National Pollutant Discharge Elimination System (NPDES) permit for the discharge of treated groundwater during the site remediation, and you would like to terminate the current permit, the DEP recommends that you submit a written request to officially terminate coverage under the permit. Your request should be submitted to the Clean Water Program. Please include the permit number and your contact information in your request. If you wish to maintain coverage under the NPDES permit, you must continue to comply with all permit conditions, including submittal of Discharge Monitoring Reports, and you must submit an application for a reissuance of the permit at least 180 days prior to the expiration date of the permit.

Any person aggrieved by this action may appeal the action to the Environmental Hearing Board (Board) pursuant to Section 4 of the Environmental Hearing Board Act, 35 P.S. § 7514, and the Administrative Agency Law, 2 Pa.C.S. Chapter 5A. The Board's address is:

Environmental Hearing Board
Rachel Carson State Office Building, Second Floor
400 Market Street
P.O. Box 8457
Harrisburg, PA 17105-8457

TDD users may contact the Environmental Hearing Board through the Pennsylvania Relay Service, 800-654-5984.

Appeals must be filed with the Board within 30 days of receipt of notice of this action unless the appropriate statute provides a different time. This paragraph does not, in and of itself, create any right of appeal beyond that permitted by applicable statutes and decisional law.

A Notice of Appeal form and the Board's rules of practice and procedure may be obtained online at <http://ehb.courtapps.com> or by contacting the Secretary to the Board at 717-787-3483. The Notice of Appeal form and the Board's rules are also available in braille and on audiotape from the Secretary to the Board.

IMPORTANT LEGAL RIGHTS ARE AT STAKE. YOU SHOULD SHOW THIS DOCUMENT TO A LAWYER AT ONCE. IF YOU CANNOT AFFORD A LAWYER, YOU MAY QUALIFY FOR FREE PRO BONO REPRESENTATION. CALL THE SECRETARY TO THE BOARD AT 717-787-3483 FOR MORE INFORMATION. YOU DO NOT NEED A LAWYER TO FILE A NOTICE OF APPEAL WITH THE BOARD.

IF YOU WANT TO CHALLENGE THIS ACTION, YOUR APPEAL MUST BE FILED WITH AND RECEIVED BY THE BOARD WITHIN 30 DAYS OF RECEIPT OF NOTICE OF THIS ACTION.

Thank you for your actions in remediating this release. If you have questions, please contact Kenneth Tua at 412-442-4121 or by email to ktua@pa.gov.

Sincerely,

Diane D. McDaniel, P.E.
Environmental Program Manager
Environmental Cleanup and Brownfields

cc: Sean M. Fullmer, Compliance Management International
A. Owoc, K. Tua, Region

NPDES Permit



**PAG-02
AUTHORIZATION TO DISCHARGE UNDER THE
NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)
GENERAL PERMIT FOR DISCHARGES OF
STORMWATER ASSOCIATED WITH CONSTRUCTION ACTIVITIES**

NPDES PERMIT NO: PAC-02 0353

In compliance with the provisions of the Clean Water Act, 33 U.S.C.A. §§ 1251—1387 and Pennsylvania's Clean Streams Law, as amended, 35 P.S. §§ 691.1—691.1001, the Department of Environmental Protection (DEP) authorizes the permittee named below to discharge stormwater associated with construction activities from an earth disturbance activity that involves earth disturbance greater than or equal to one acre, or an earth disturbance on any portion, part, or during any stage of a larger common plan of development or sale that involves earth disturbance greater than or equal to one acre:

Permittee

Kimberly Kennedy
Allegheny County Sanitary Authority
(ALCOSAN)
3300 Preble Avenue
Pittsburgh, PA 15233

Project Site

ALCOSAN Wet Weather Plant Expansion
City of Pittsburgh, Allegheny County

This authorization is subject to DEP's enclosed PAG-02 General Permit (General Permit) which incorporates all effluent limitations, monitoring and reporting requirements, and other terms, conditions, criteria, and special requirements for the discharge of stormwater associated with construction activities to surface waters, including through storm sewers. Authorization to discharge is subject to the implementation of the plans and additional associated information submitted as part of the Notice of Intent (NOI) for general permit coverage.

APPROVAL TO DISCHARGE IN ACCORDANCE WITH THE TERMS AND CONDITIONS HEREIN IS AUTHORIZED BEGINNING ON May 18, 2020 AND WILL EXPIRE ON December 7, 2024 WHEN CONDUCTED PURSUANT TO THE TERMS AND CONDITIONS OF THIS GENERAL PERMIT. GENERAL PERMIT COVERAGE MAY BE TERMINATED PRIOR TO THE EXPIRATION DATE UPON RECEIPT AND ACKNOWLEDGEMENT OF A NOTICE OF TERMINATION FORM AND APPROVAL BY DEP OR THE AUTHORIZED CONSERVATION DISTRICT. NO CONDITION OF THIS GENERAL PERMIT SHALL RELEASE THE PERMITTEE OR CO-PERMITTEE(S) FROM ANY RESPONSIBILITY OR REQUIREMENT UNDER STATE OR FEDERAL ENVIRONMENTAL STATUTES, REGULATIONS, OR LOCAL ORDINANCES.

Coverage under the PAG-02 General Permit is authorized by:

Matt Gordon

**Matt Gordon, Regulatory Team Director
Allegheny County Conservation District**

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PAG-02
NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM
(NPDES) GENERAL PERMIT FOR DISCHARGES OF
STORMWATER ASSOCIATED WITH CONSTRUCTION ACTIVITIES

This General Permit applies to earth disturbance activities that disturb greater than or equal to one (1) acre, or an earth disturbance on any portion, part, or during any stage of, a larger common plan of development or sale that involves greater than or equal to one acre of earth disturbance.

This General Permit does not apply to earth disturbance activities involving agricultural plowing and tilling, animal heavy use areas, timber harvesting activities, or road maintenance activities.

Earth disturbance activities associated with oil and gas exploration, production, processing or treatment operations, or transmission facilities may be required to obtain permit coverage under the Erosion and Sediment Control General Permit (ESCGP).

I. DEFINITIONS

Note: Terms used in this General Permit not otherwise defined herein shall have the meaning attributed to them in 40 CFR Part 122 and 25 Pa. Code Chapters 92a, 93, 96, 102 or 105.

Administrator means the Environmental Protection Agency (EPA) regional administrator.

Antidegradation Best Available Combination of Technologies (ABACT) means environmentally sound and cost effective treatment, land disposal, pollution prevention and stormwater re-use BMPs that individually or collectively manage the difference in the net change in stormwater volume, rate, and quality for storm events up to and including the 2 year/24 hour storm when compared to the stormwater rate, volume, and quality prior to the earth disturbance activities to maintain and protect the existing quality of the receiving surface waters of this Commonwealth. (25 Pa. Code § 102.1)

Accelerated Erosion means the removal of the surface of the land through the combined action of human activities and the natural processes, at a rate greater than would occur because of the natural process alone. (25 Pa. Code § 102.1)

Approximate original condition means the pre-construction condition, general surface configuration, and drainage pattern of the land prior to earth disturbance. Restoration from forest to meadow is considered approximate original condition under this General Permit.

Best Management Practices (BMPs) means activities, facilities, measures, planning, or procedures used to minimize accelerated erosion and sedimentation and manage stormwater to protect, maintain, reclaim, and restore the quality of waters and the existing and designated uses of waters of this Commonwealth before, during, and after earth disturbance activities. (25 Pa. Code § 102.1)

Clean fill means uncontaminated, non-water soluble, non-decomposable inert solid material. The term does not include materials placed in or on waters of the Commonwealth unless otherwise authorized. (25 Pa. Code § 271.1)

Clean Streams Law means the Act of June 22, 1937, P.L. 1987, No. 394, as amended. (35 P.S. §§ 691.1—691.1001)

Clean Water Act means the Federal Water Pollution Control Act, as amended. (33 U.S.C.A. §§ 1251—1387)

Combined Sewer Overflow (CSO) means an intermittent overflow or other untreated discharge from a municipal combined sewer system (including domestic, industrial, and commercial wastewater and stormwater) prior to reaching the headworks of the sewage treatment facility which results from a flow in excess of the dry-weather carrying capacity of the system. (25 Pa. Code § 92a.2)

Co-Permittee means person(s) identified in this General Permit as responsible for the discharges of stormwater associated with construction activity who is jointly and individually responsible together with the permittee for compliance with all terms and conditions of this General Permit and applicable laws.

County Conservation District (CCD) means a conservation district, as defined in section 3(c) of the Conservation District Law (3 P.S. § 851(c)), which has the authority under a delegation agreement executed with DEP to administer and enforce all or a portion of the erosion, sediment, and stormwater management program in this Commonwealth. (25 Pa. Code § 102.1)

Critical Stages means the installation of underground treatment BMPs, structurally engineered BMPs, or other BMPs as deemed appropriate by DEP or a CCD.

DEP means the Department of Environmental Protection of this Commonwealth.

Designated uses means those uses specified in 25 Pa. Code §§ 93.4(a) and 93.9a—93.9z for each water body or segment, whether or not they are being attained, to be achieved as part of Pennsylvania's water quality standards. (25 Pa. Code § 93.1)

Disturbed area means unstabilized land area where an earth disturbance activity is occurring or has occurred. (25 Pa. Code § 102.1)

Earth Disturbance Activity means a construction or other human activity which disturbs the surface of the land, including land clearing and grubbing, grading, excavations, embankments, land development, agricultural plowing or tilling, operation of animal heavy use areas, timber harvesting activities, road maintenance activities, oil and gas activities, well drilling, mineral extraction, and the moving, depositing, stockpiling, or storing of soil, rock, or earth materials. (25 Pa. Code § 102.1)

Effluent Limitation or Standard means a restriction established by DEP or the Administrator on quantities, rates, and concentrations of chemical, physical, biological, and other constituents which are discharged from point sources into surface waters including BMPs and schedules of compliance.

EPA means the United States Environmental Protection Agency.

Erosion means the natural process by which the surface of the land is worn away by water, wind, or chemical action. (25 Pa. Code § 102.1)

Erosion and Sediment Control Plan (E&S Plan) – A site-specific plan consisting of both drawings and a narrative that identifies BMPs to minimize accelerated erosion and sedimentation before, during, and after earth disturbance activities. (25 Pa. Code § 102.1)

Exceptional Value Waters means surface waters of high quality which satisfy 25 Pa. Code § 93.4b(b) (relating to antidegradation). (25 Pa. Code § 93.1)

Existing uses means those uses actually attained in the water body on or after November 28, 1975, whether or not they are included in Pennsylvania's water quality standards. (25 Pa. Code § 93.1)

Impaired Waters means surface waters that fail to attain one or more of its designated uses under 25 Pa. Code Chapter 93.

Integrated Water Quality Monitoring and Assessment Report (Integrated Report) means DEP's report on the conditions of Pennsylvania's surface waters to satisfy sections 305(b) and 303(d) of the Clean Water Act when approved by EPA.

High Quality Waters means surface waters having quality which exceeds levels necessary to support propagation of fish, shellfish, and wildlife and recreation in and on the water by satisfying 25 Pa. Code § 93.4b(a). (25 Pa. Code § 93.1)

Licensed Professional means professional engineers, landscape architects, geologists, and land surveyors licensed to practice in the Commonwealth. (25 Pa. Code § 102.1)

Long-Term Operation and Maintenance (O&M) means the routine inspection, maintenance, repair, or replacement of a BMP to ensure proper function for the duration of time that the BMP is needed. (25 Pa. Code § 102.1)

Municipal Separate Storm Sewer System (MS4) means all separate storm sewers that are defined as “large” or “medium” or “small” municipal separate storm sewer systems pursuant to 40 CFR §§ 122.26(b)(4), (b)(7), and (b)(16), respectively, or designated under 40 CFR § 122.26(a)(1)(v). (25 Pa. Code § 92a.32(a) and 40 CFR § 122.26(b)(18))

Municipality means a county, city, borough, town, township, school district, institution, or authority, or another public body created by or pursuant to State Law. For the purposes of this definition, town includes an incorporated town. (25 Pa. Code § 102.1)

Notice of Intent (NOI) means a request, on a form provided by DEP, for coverage under a General NPDES Permit for Discharges of Stormwater Associated with Construction Activities. (25 Pa. Code § 102.1)

Notice of Termination (NOT) – A request, on a form provided by DEP, to terminate coverage under a General NPDES Permit for Discharges of Stormwater Associated with Construction Activities. (25 Pa. Code § 102.1)

Non-discharge alternative – Environmentally sound and cost effective BMPs that individually or collectively eliminate the net change in stormwater volume, rate, and quality for stormwater events up to and including the 2-year/24-hour storm when compared to the stormwater rate, volume, and quality prior to the earth disturbance activities to maintain and protect the existing quality of the receiving surface waters of this Commonwealth. (25 Pa. Code § 102.1)

Operator means a person who has one or more of the following: (i) oversight responsibility of earth disturbance activity on a project site or a portion thereof who has the ability to make modifications to the E&S Plan, PCSM Plan or site specifications, (ii) day-to-day operational control over earth disturbance activity on a project site or a portion thereof to ensure compliance with the E&S Plan or PCSM Plan. (25 Pa. Code § 102.1)

Owner means a person(s) who holds the legal title to the land subject to construction activity. This term also includes the person(s) who held legal title to the land subject to construction activity at the time such activity was commenced on a site.

Permittee means a person who has coverage under this General Permit. The term permittee is also used to describe operators who are co-permittees, to the extent that co-permittees are jointly and severally liable for non-compliance with this General Permit.

Permanent Stabilization means long-term protection of soil and water resources from accelerated erosion. (25 Pa. Code § 102.1)

Person – Any operator, individual, public or private corporation, partnership, association, municipality or political subdivision of this Commonwealth, institution, authority, firm, trust, estate, receiver, guardian, personal representative, successor, joint venture, joint stock company, fiduciary; Department, agency or instrumentality of state, federal, or local government, or an agent or employee thereof; or any other legal entity. Whenever used in any clause prescribing and imposing a penalty, or imposing a fine or imprisonment or both, the term "person" shall not exclude the members of an association and the directors, officers, or agents of a corporation.

Point Source means any discernable, confined, and discrete conveyance, including, but not limited to, any pipe, ditch, channel, tunnel, conduit, well, discrete fissure, container, rolling stock, Concentrated Aquatic Animal Production Facility (CAAP), Concentrated Animal Feeding Operation (CAFO), landfill leachate collection system, or vessel, or other floating craft, from which pollutants are or may be discharged. (25 Pa. Code § 92a.2)

Post-Construction Stormwater means stormwater associated with a project site after the earth disturbance activity has been completed and the project site is permanently stabilized.

Post-Construction Stormwater Management Plan (PCSM Plan) means a site-specific plan consisting of both drawings and a narrative that identifies BMPs to manage changes in stormwater runoff volume, rate, and water quality after earth disturbance activities have ended and the project site is permanently stabilized. (25 Pa. Code § 102.1)

Preparedness, Prevention, and Contingency Plan (PPC Plan) means a written plan that identifies an emergency response program, material and waste inventory, spill and leak prevention and response, inspection program, housekeeping program, security and external factors, and that is developed and implemented at the construction

site to control potential discharges of pollutants other than sediment into waters of this Commonwealth. (25 Pa. Code § 102.1)

Project site means the entire area of activity, development, lease, or sale including: (i) the area of the earth disturbance activity; (ii) the area planned for the earth disturbance activity; and (iii) Other areas which are not subject to earth disturbance activity. (25 Pa. Code § 102.1)

Regulated fill means soil, rock, stone, dredged material, used asphalt, historic fill, and brick, block or concrete from construction and demolition activities that is separate from other waste and recognizable as such that has been affected by a spill or release of a regulated substance and the concentrations of regulated substances exceed the values in Tables FP-1a and b of DEP's Management of Fill Policy (DEP ID No. 258-2182-773).

Riparian buffer means a BMP that is an area of permanent vegetation along surface waters. (25 Pa. Code § 102.1)

Riparian forest buffer means a type of riparian buffer that consists of permanent vegetation that is predominantly native trees, shrubs, and forbs along surface waters that is maintained in a natural state or sustainably managed to protect and enhance water quality, stabilize stream channels and banks, and separate land use activities from surface waters. (25 Pa. Code § 102.1)

Snowmelt means the conversion of snow into overland stormwater and ground water flow as a result of warmer temperatures.

Stabilization means the proper placing, grading, constructing, reinforcing, lining, and covering of soil, rock, or earth to ensure their resistance to erosion, sliding, or other movement. (25 Pa. Code § 102.1)

Stormwater means runoff from precipitation, snowmelt, surface runoff, and drainage. (25 Pa. Code § 102.1)

Surface Waters means perennial and intermittent streams, rivers, lakes, reservoirs, ponds, wetlands, springs, natural seeps, and estuaries, excluding water at facilities approved for wastewater treatment such as wastewater treatment impoundments, cooling water ponds, and constructed wetlands used as part of a wastewater treatment process. (25 Pa. Code § 102.1)

Total Maximum Daily Load (TMDL) means the sum of the individual wasteload allocations for point sources, load allocations for nonpoint sources and natural quality, and a margin of safety expressed in terms of mass per time, toxicity, or other appropriate measures. (25 Pa. Code § 96.1)

Toxic Pollutant (Toxics) means those pollutants, or combinations of pollutants, including disease-causing agents, which after discharge and upon exposure, ingestion, inhalation or assimilation into any organism, either directly from the environment or indirectly by ingestion through food chains may, on the basis of information available to DEP cause death, disease, behavioral abnormalities, cancer, genetic mutations, physiological malfunctions, including malfunctions in reproduction, or physical deformations in these organisms or their offspring. (25 Pa. Code § 92a.2)

Transferee – Person(s) identified through the co-permittee/transferee form as having new responsibility for the discharges of stormwater during construction activities and responsibility for compliance with all terms and conditions of this General Permit and all applicable laws for discharges of stormwater during the construction activity.

Urbanized area (UA) means land area comprising one or more places (central place(s)) and the adjacent densely settled surrounding area (urban fringe) that together have a residential population of at least 50,000 and an overall population density of at least 1,000 people per square mile, as defined by the United States Bureau of the Census and as determined by the latest available decennial census. The UA outlines the extent of automatically regulated areas.

Wasteload Allocation (WLA) means the portion of a surface water's loading capacity that is allocated to existing and future point source discharges. (25 Pa. Code § 96.1)

Waters of this Commonwealth means rivers, streams, creeks, rivulets, impoundments, ditches, watercourses, storm sewers, lakes, dammed water, wetlands, ponds, springs, and other bodies or channels of conveyance of surface

and underground water, or parts thereof, whether natural or artificial, within or on the boundaries of this Commonwealth. (25 Pa. Code § 102.1)

Wetlands means areas that are inundated or saturated by surface water or groundwater at a frequency and duration sufficient to support, and that under normal circumstances do support, a prevalence of vegetation typically adapted for life in saturated soil conditions, including swamps, marshes, bogs, and similar areas. (25 Pa. Code § 105.1)

II. AUTHORITY OF DEP AND CCD

- A. DEP or CCD may notify the permittee at any time that the General Permit terms and conditions are not being met. Upon plan review or site inspection, DEP or CCD may require E&S Plan revisions or other appropriate action to ensure compliance with the terms and conditions of this General Permit.
- B. DEP or CCD has the right to enter onto the site to conduct inspections, conduct monitoring, or require monitoring where deemed necessary. The permittee shall commence such monitoring upon notification from DEP or CCD in the manner directed by DEP or CCD.
- C. DEP or CCD may request copies of records required by this General Permit, which could include the records required under Part A Section III of this General Permit.
- D. DEP may require by written notice any person authorized by this General Permit to apply for an Individual NPDES Permit. This notice shall include the following:
 - 1. A brief statement of the reasons for the decision.
 - 2. An application form for an Individual NPDES Permit.
 - 3. A statement setting a 90-day deadline for the owner or operator to file an application.

III. NOTICE OF INTENT SUBMITTAL

- A. General Information and Requirements
 - 1. Persons proposing to discharge stormwater associated with construction activities and eligible persons proposing to expand the scope previously authorized discharges of stormwater associated with construction activities, who wish to be covered by this General Permit, must submit an administratively complete and acceptable Notice of Intent (NOI) to DEP or CCD and receive authorization from DEP or CCD prior to commencing the construction activity. The NOI shall be filed in accordance with the detailed instructions specified in the NOI instructions.
 - 2. Operators of all construction activities subject to this General Permit shall develop, implement, and maintain erosion and sediment (E&S) and post-construction stormwater management (PCSM) best management practices (BMPs) and other pollution prevention measures required by this General Permit to minimize accelerated erosion and sedimentation before, during, and after construction activities.
 - 3. E&S BMPs shall be designed and implemented to meet the standards and specifications identified in DEP's regulations, including 25 Pa. Code §§ 102.4 (relating to erosion and sediment control requirements) and 102.11(a)(1) (relating to general requirements), and listed in DEP's *Erosion and Sediment Pollution Control Program Manual* (DEP ID No. 363-2134-008), as amended and updated, or an alternative that is at least as effective or better, when authorized by DEP.
 - 4. PCSM BMPs shall be designed and implemented to meet the standards and specifications identified in DEP's regulations, including 25 Pa. Code §§ 102.8 (relating to PCSM requirements) and 102.11(a)(2), and listed in DEP's *Pennsylvania Stormwater Best Management Practices Manual* (DEP ID No. 363-0300-002), as amended and updated, or an alternative that is as at least as effective or better, when authorized by DEP.
 - 5. The E&S Plan, PCSM Plan, and Preparedness, Prevention and Contingency (PPC) Plan shall identify appropriate BMPs that will be implemented to ensure that existing and designated uses of surface waters are protected and maintained.

6. The permittee or co-permittee(s) shall maintain the E&S Plan, PCSM Plan, PPC Plan, and other documents required by this General Permit at the project site and available for review by DEP or CCD or other authorized local, state, or federal agent or representative.
- B. The following activities are not eligible for coverage under this General Permit:
1. Discharges to waters, including wetlands, with a designated or existing use of High Quality Waters (HQ) or Exceptional Value Waters (EV) pursuant to 25 Pa. Code Chapter 93 (relating to water quality standards). (25 Pa. Code § 92a.54(e)(9))
 2. Discharges which contain hazardous pollutants, toxics, or any other substance which - because of its quantity, concentration, or physical, chemical, or infectious characteristics - may cause or contribute to an increase in mortality or morbidity in either an individual or the total population, or pose a substantial present or future hazard to human health or the environment when discharged into surface waters of this Commonwealth. (25 Pa. Code § 92a.54(a)(5))
 3. Discharges which individually or cumulatively have the potential to cause significant adverse environmental impact. (25 Pa. Code § 92a.54(e)(1))
 4. Discharges to waters for which NPDES general permit coverage is prohibited under 25 Pa. Code Chapter 92a (relating to NPDES permitting, monitoring and compliance).
 5. Discharges which are not, or will not be, in compliance with any of the terms or conditions of this General Permit. (25 Pa. Code § 92a.54(e)(2))
 6. Discharges for which the responsible party (person) has failed and continues to fail to comply or has shown a lack of ability or intention to comply with a regulation, permit, and schedule of compliance or order issued by DEP or CCD. (25 Pa. Code § 92a.54(e)(3))
 7. Discharges subject to categorical point source effluent limitations promulgated by the United States Environmental Protection Agency (EPA) for categories other than construction or post-construction. (25 Pa. Code § 92a.54(e)(5))
 8. Discharges which do not, or will not, result in compliance with applicable effluent limitations or water quality standards. (25 Pa. Code § 92a.54(e)(6))
 9. Discharges from construction activities for which DEP requires an Individual NPDES Permit to ensure compliance with the federal Clean Water Act, Pennsylvania's Clean Streams Law, or rules and regulations promulgated thereto; or where a change has occurred in the availability of demonstrated technology or practices for the control or abatement of pollutants applicable to the point source. (25 Pa Code § 92a.54(e)(8))
 10. Discharges associated with coal mining or noncoal mining activities pursuant to DEP's regulations at 25 Pa. Code Chapters 77 and 86-90.
 11. Discharges associated with a construction activity that may adversely affect a Pennsylvania or federal endangered or threatened species or its critical habitat. (25 Pa. Code § 92a.12(c))
 12. Discharges from a site where other point source(s) require the issuance of an Individual NPDES Permit. (25 Pa. Code § 92a.54(e)(7))
 13. Discharges to surface waters identified as waters impaired for siltation, suspended solids, turbidity, water/flow variability, flow modifications/alterations, or nutrients in DEP's latest published Integrated Water Quality Monitoring and Assessment Report (Integrated Report) most recently approved by EPA unless the discharges will be managed with a non-discharge alternative or ABACT BMPs.
 14. Discharges to surface waters that are covered by an EPA-approved or EPA-established Total Maximum Daily Load (TMDL), including discharges to waters tributary to the Chesapeake Bay, in which the pollutant(s) of concern include siltation, suspended solids, or nutrients, unless the discharges will be

managed with a non-discharge alternative or ABACT BMPs. In addition, if a specific wasteload allocation (WLA) has been established that would apply to the discharge, the permittee shall implement necessary steps to meet that allocation.

15. Discharges to municipal separate storm sewer systems (MS4s) and combined sewer overflow (CSO) municipal systems without the written consent of the MS4 or CSO permit holder unless those discharges result in no net change (pre-condition to post-condition) in volume or rate or water quality.
 16. Discharges of (a) wastewater from washout of concrete, unless managed by an appropriate control; (b) wastewater from washout and cleanout of stucco, paint, form release oils, curing compounds and other construction materials; (c) fuels, oils, or other pollutants used in vehicle and equipment operation and maintenance; and (d) soaps or solvents used in vehicle and equipment washing.
- C. If a payment (e.g., check, electronic transfer) of either an administrative filing fee or a disturbed acreage fee has been processed as part of an administratively complete application and is subsequently returned for insufficient funds, the NOI will be suspended until sufficient funds are provided. If earth disturbance activity authorized by the General Permit occurs and DEP or CCD is subsequently notified that the fee(s) were not paid, earth disturbance activities at the site will be immediately suspended and the site must be immediately stabilized until the fees are paid in full. If the fees are not paid in full within 30 days of notification of unpaid fees, the General Permit authorization will be revoked.
- D. No condition of this General Permit shall release any person from any responsibility or requirements under relevant federal or Pennsylvania environmental statutes or regulations, or under relevant local ordinances.
- E. The approval of coverage is granted based, in part, on information provided by the applicant in the NOI. The information provided by the applicant, including all appendices, attachments, plans, and supporting documentation, are incorporated by reference as a part of the approval and are enforceable as a condition of the approval. If there is any conflict between the General Permit and the NOI, including any appendices, attachments, plans, and other supporting documentation, the more environmentally protective provision applies.

IV. NOTICE OF TERMINATION

A. Termination of Coverage

1. Upon permanent stabilization of earth disturbance activity under 25 Pa. Code § 102.22(a)(2) (relating to permanent stabilization) and installation of BMPs in accordance with the approved plans prepared and implemented in accordance with 25 Pa. Code §§ 102.4 and 102.8, the permittee and/or co-permittee(s) shall submit an NOT to DEP or CCD. The NOT must include:
 - a. The facility name, address, and location.
 - b. The operator name and address.
 - c. The permit number.
 - d. The reason for the permit termination.
 - e. Identification of the persons who have agreed to and will be responsible for the long-term O&M of PCSM BMP(s).
2. Until the permittee or co-permittee has received written approval of the NOT, the permittee or co-permittee will remain responsible for compliance with the General Permit terms and conditions, including long-term O&M of all PCSM BMPs on the project site in accordance with 25 Pa. Code § 102.8(m) (relating to PCSM long-term operation and maintenance requirements). DEP or CCD will conduct a follow-up inspection and approve or deny the NOT within 30 days of its receipt in accordance with 25 Pa. Code § 102.7(c) (relating to permit termination).

B. Final Certification

1. The permittee shall enclose with the NOT "Record Drawings" a final certification statement from a licensed professional, which reads as follows:

"I (name) do hereby certify pursuant to the penalties of 18 Pa.C.S. § 4904 to the best of my knowledge, information, and belief, that the accompanying record drawings accurately reflect the as built conditions, are true and correct, and are in conformance with Chapter 102 of the rules and regulations of the Department of Environmental Protection and that the project site was constructed in accordance with the approved PCSM Plan, all approved plan changes, and accepted construction practices."

2. The permittee shall retain a copy of the record drawings as part of the approved PCSM Plan and shall provide a copy of the record drawings to the persons identified as responsible for the long-term O&M of PCSM BMPs. Permittees shall also provide copies of both the record drawings and the long-term O&M plan to DEP or CCD and the municipality(ies) where the project site is located.

General Permit (PAG-02) Issued

By



Acting Director
Bureau of Clean Water

Effective: December 8, 2019

Expires: December 7, 2024

PART A

EFFLUENT LIMITATIONS, MONITORING AND REPORTING REQUIREMENTS

I. EFFLUENT LIMITATIONS

A. BMPs.

Except as required by 25 Pa. Code § 102.11(c), this General Permit establishes narrative performance-based effluent limitations in the form of BMPs identified in E&S Plans, PCSM Plans, and PPC Plans, which control the volume, rate, and quality of stormwater runoff discharged into surface waters, and which replicate pre-construction infiltration and runoff conditions to the maximum extent practicable. Section 102.11(c) incorporates by reference federal Effluent Limitation Guidelines in 40 CFR Part 450 (relating to the construction and development point source category).

B. Water Quality-Based Effluent Limitations.

1. Persons proposing or conducting earth disturbance activities shall develop, implement and maintain E&S and PCSM BMPs to minimize the potential for accelerated erosion and sedimentation and to manage post-construction stormwater to ensure that the water quality standards of all affected waters are attained.
2. Earth disturbance activities authorized under this General Permit shall achieve WLAs established in any applicable TMDL. All stormwater discharges must comply with all applicable requirements established in accordance with DEP's regulations at 25 Pa. Code Chapters 91-96, 102, and 105.
3. For all permittees covered under this General Permit, DEP or CCD may, upon written notice, require additional BMPs or other control measures to ensure that the water quality standards of the receiving waters are attained.

C. The permittee may not discharge:

1. Floating solids, scum, sheen or substances that result in observed deposits in the receiving water, and foam or substances that produce an observable change in the color, taste, odor or turbidity of the receiving water. (25 Pa. Code § 92a.41(c))
2. Substances in concentration or amounts sufficient to be inimical or harmful to the water uses to be protected or to human, animal, plant or aquatic life. (25 Pa. Code § 93.6(a))

II. MONITORING, INSPECTION, AND REPORTING REQUIREMENTS

A. Site Inspections – The permittee shall conduct visual site inspections throughout the duration of construction and until the NOT has been submitted by the permittee, at the following frequencies:

- Routine Inspections shall be conducted weekly.
 - Post-Storm Event Inspections shall be conducted within 24 hours after the conclusion of each measurable storm event (i.e., precipitation in an amount of 0.25 inch or greater over a 24-hour period) or the occurrence of snowmelt sufficient to cause a discharge.
 - Corrective Action Inspections shall be conducted anytime the permittee observes a deficiency in implementation of the E&S and PCSM Plans.
1. The permittee shall document each site inspection on DEP's Chapter 102 Visual Site Inspection Report (3800-FM-BCW0271d) or alternative document or electronic form that collects and retains identical information. All requested information on the Visual Site Inspection Report must be completed. If electronic forms are used to document site inspections, the permittee shall provide a physical copy of the inspection report to DEP or CCD upon request. The permittee shall submit visual site inspection reports to DEP or CCD upon request.
 2. Site inspections shall be performed by personnel that are trained and experienced in E&S and PCSM BMP construction, function, and maintenance and are familiar with the E&S and PCSM Plans for the project site.

3. To determine if a storm event of 0.25 inch or greater has occurred on a project site, the permittee shall either maintain a rain gauge on-site or obtain storm event information from a weather station that is representative of the project site location.

B. Licensed Professional Oversight of Critical Stages (25 Pa. Code § 102.8(k))

A licensed professional or a designee shall be present on-site and shall be responsible for oversight of critical stages of implementation of the approved PCSM Plan. The critical stages may include the installation of underground treatment or storage BMPs, structurally engineered BMPs, or other BMPs as deemed appropriate by DEP or CCD.

C. Non-Compliance or Potential Pollution Reporting

Where E&S, PCSM or PPC BMPs are found to be inoperative or ineffective during an inspection or any other time the permittee becomes aware of any incident causing or threatening pollution as described in 25 Pa. Code § 91.33 (relating to incidents causing or threatening pollution), as required by 25 Pa. Code § 92a.41(b) (relating to conditions applicable to all permits), the permittee and/or co-permittee(s) shall, as soon as possible but no later than four (4) hours after becoming aware of the incident, contact DEP or CCD, by phone or personal contact, followed by the submission of a written report within five (5) days of the initial contact, which may be waived by DEP or CCD. Non-compliance reports shall include the following information:

1. Any condition on the project site which may endanger public health, safety, or the environment, or involve incidents which cause or threaten pollution;
2. The period of non-compliance, including exact dates and times and/or anticipated time when the activity will return to compliance;
3. Steps being taken to reduce, eliminate, and prevent recurrence of the non-compliance; and
4. The date or schedule of dates, and identifying remedies for correcting non-compliance conditions.

D. Monitoring.

DEP or CCD may require additional monitoring where an increased risk of potential water pollution is present, or water pollution is suspected to be occurring from a construction activity subject to this General Permit, or for any reason in accordance with 25 Pa. Code § 92a.61 (relating to monitoring). The permittee or co-permittee shall commence such monitoring upon notification from DEP or CCD. (25 Pa. Code § 92a.61(b))

III. RECORD KEEPING

The permittee and co-permittee(s) shall retain records of all monitoring information including copies of all monitoring and inspection reports required by this General Permit, all monitoring information (including site log book, calibration and maintenance records) and records of data used to complete the NOI for this General Permit for a period of three years from the date General Permit coverage is terminated, as required by 25 Pa. Code § 92a.61(f)(2). This period of retention must be extended during the course of any unresolved compliance, enforcement, or litigation or when requested by DEP or CCD. (25 Pa. Code § 92a.3(c) and 122.41(j)(2))

IV. DISCHARGES CONSISTENT WITH TERMS AND CONDITIONS OF THE GENERAL PERMIT

All discharges authorized by this NPDES permit shall be consistent with the terms and conditions of the General Permit.

PART B
STANDARD CONDITIONS

I. MANAGEMENT REQUIREMENTS

A. Permit Modification, Termination, or Revocation and Reissuance

The General Permit will expire five (5) years from the date of its issuance. DEP will publish a notice of the draft, renewed, or reissued General Permit or of any amendments to this General Permit, in the *Pennsylvania Bulletin*, and, after a comment period, DEP will publish notice of the final, renewed, reissued or amended General Permit in the *Pennsylvania Bulletin*. Any person wishing to be covered by such a final, renewed, reissued or amended General Permit must submit an NOI for General Permit coverage or, for existing discharges with General Permit coverage, an affirmative acknowledgement of the new General Permit's terms and conditions, as applicable. See 40 CFR § 122.28(b)(2)(i). A person may alternatively request coverage under an Individual NPDES Permit. See 40 CFR § 122.28(b)(2)(vi); 25 Pa. Code § 92a.54(c) and (d) (relating to general permits). If the permittee is unable to comply with the renewed, reissued, or amended General Permit, the permittee must submit an application for an Individual NPDES Permit within 90 days of publication of this General Permit.

1. Coverage under this General Permit may be modified, suspended, revoked, reissued, or terminated during its term for any of the causes specified in 25 Pa. Code Chapters 92a (relating to NPDES permitting, monitoring and compliance) and 102 (relating to erosion and sediment control), or to require compliance with updated effluent limitation guidelines, water quality standards, impaired water listings, or newly approved TMDLs.
2. DEP may modify, revoke, suspend, or terminate previously issued coverage under this General Permit and require the stormwater discharger to apply for and obtain an Individual NPDES Permit in accordance with 25 Pa. Code Chapters 92a and 102.
3. The filing of a request by the permittee or co-permittee(s) for a General Permit or coverage modification, revocation, reissuance, or termination, or a notification of planned changes or anticipated non-compliance, does not eliminate any existing General Permit conditions.
4. General Permit coverage modification or revocation will be conducted according to 25 Pa. Code Chapters 92a and 102.

B. Duty to Provide Information

1. The permittee or co-permittee(s) shall furnish to DEP or CCD within thirty (30) days or such other timeframe as instructed by DEP or CCD, any information that DEP or CCD may request to determine whether cause exists for modifying, revoking, reissuing, or terminating coverage approved under this General Permit or to determine compliance with this General Permit. (25 Pa. Code § 92a.41(a) and 40 CFR § 122.41(h))
2. The permittee or co-permittee(s) shall furnish, upon request, to DEP or CCD or EPA, copies of records required to be kept by this General Permit. (25 Pa. Code § 92a.41(a) and 40 CFR § 122.41(h))
3. When the permittee or co-permittee(s) becomes aware that they failed to submit any relevant facts or submitted incorrect information in the NOI, E&S Plan, PCSM Plan, or PPC Plan or in any other report to DEP or CCD, the permittee or co-permittee shall within 24 hours of becoming aware of the deficiency submit or correct such facts or information. (25 Pa. Code § 92a.41(a) and 40 CFR § 122.41(l)(8))
4. The permittee or co-permittee shall give seven (7) calendar days advance notice to DEP or CCD of any planned physical alterations or additions to the permitted facility which could, in any way, substantially affect the quality and/or quantity of stormwater discharged from the activity.

C. Signatory Requirements (25 Pa. Code § 92a.22 and 40 CFR § 122.22)

Documents required, submitted, or maintained under this General Permit shall be signed in accordance with the following:

1. Notices of Intent, Transferee/Co-permittee Form, and Notices of Termination.
 - a. Corporations – (1) a president, secretary, treasurer, or vice-president of the corporation in charge of a principal business function, or any other person who performs similar policy or decision-making functions for the corporation; or (2) the manager of one or more manufacturing, production, or operating facilities, if authority to sign documents has been assigned or delegated to the manager in accordance with corporate procedures;
 - b. Partnerships or sole proprietorships – a general partner or the proprietor, respectively; or
 - c. Municipalities, state, federal, or other public agencies – either a principal executive officer or ranking elected official such as: (1) the chief executive officer or secretary of the agency, or (2) a senior executive officer having responsibility for the overall operations of a principal geographic unit of the agency (e.g., Regional Administrators of EPA).
2. All reports, plans, documents, and other information required by the General Permit or requested by DEP or CCD be signed by a duly authorized representative of the permittee.
3. If there is a change in the duly authorized representative of the permittee or co-permittee, respectively, the permittee or co-permittee(s) shall notify DEP or CCD within thirty (30) days of the change.

D. Transfer/Change of Ownership or Control

1. This General Permit is not transferable to any person except after notice and acknowledgment by DEP or CCD.
 - a. In the event of any pending change in control or ownership of facilities from which the authorized discharges emanate, the permittee or co-permittee shall notify DEP or CCD using the form entitled "Application for NPDES or WQM Permit Transfer" (Transfer Application) (3800-PM-BCW0041b) of such pending change at least thirty (30) days prior to the change in ownership or control.
 - b. The Transfer Application form shall be accompanied by a written agreement between the existing permittee and the new owner or operator stating that the existing permittee shall be liable for violations of the permit up to and until the date of coverage transfer and that the new owner or operator shall be jointly and individually liable for permit violations under the permit from that date on.
 - c. After receipt of an administratively complete and acceptable Transfer Application form, DEP or CCD shall notify the existing permittee and the new owner or operator of its decision concerning approval of the transfer of ownership or control. Such requests shall be deemed approved and the permit will be considered modified unless DEP or CCD notifies the applicant otherwise within thirty (30) days.
2. DEP or CCD may require the new owner or operator to apply for and obtain an Individual NPDES permit.
3. For purposes of this General Permit, operators shall include general contractors. Operators who are not the permittee shall be co-permittees. If prior to construction activities, the owner is the permittee and an operator/general contractor is later identified to become a co-permittee, the owner shall:
 - a. Complete and submit the Co-Permittee Acknowledgement for Chapter 102 Permits form (3800-FM-BCW0271a) prior to the operator engaging in earth disturbance activities; and
 - b. Ensure that monitoring reports and any other information requested under this General Permit shall reflect all changes to the permittee and the co-permittee name.

4. After receipt of the documentation described in paragraph 3 above, the permit will be considered modified by DEP or CCD unless DEP or CCD notifies the applicant otherwise within thirty (30) days. For the purposes of this permit, this modification is considered to be a minor permit modification.
5. Upon authorization of a change in ownership or control, the existing permittee shall provide a copy of the permit and approved plans to the new owner and/or co-permittee.

E. Removed Substances

Solids, sediments, and other pollutants removed in the course of treatment or control of stormwater shall be disposed in accordance with federal and state law and regulations, in order to prevent any pollutant in such materials from adversely affecting public health or the environment.

F. BMP Construction, Operation and Maintenance

The permittee and co-permittee(s) are responsible for the design, installation, operation, and maintenance of the BMPs identified in the E&S Plan, PCSM Plan, and PPC Plan.

G. Reduction, Loss, or Failure of BMP

Upon reduction, loss, or failure of any BMP, the permittee and co-permittee(s) shall take immediate action to restore, repair, or replace the BMP or to provide an alternative method of treatment. Such restored BMP or alternative treatment shall be at least as effective as the original BMP when properly installed. These actions shall be undertaken to ensure that there are no pollutants or pollution discharged to the waters of the Commonwealth. This requirement is applicable in situations where the BMP is rendered ineffective, whether the cause or source of the reduction, loss or failure is within or beyond the control of the permittee or co-permittee(s).

II. COMPLIANCE RESPONSIBILITIES

A. Duty to Comply

The permittee and co-permittee(s) must comply with all terms and conditions of this General Permit. Any General Permit non-compliance constitutes a violation of Pennsylvania's Clean Streams Law and the federal Clean Water Act and is grounds for enforcement action; permit termination, revocation, reissuance, or modification; or denial of a permit or permit renewal. (25 Pa. Code §§ 92a.3(c), 92a.41(a) and 40 CFR § 122.41(a))

B. Penalties for Violations of Permit Conditions

Any person who violates a General Permit condition, fails to take corrective action to abate violations or falsifies report or other documents may be subject to criminal and/or civil penalties or other appropriate action for violations of the terms and conditions of this General Permit under Sections 602 and 605 of Pennsylvania's Clean Streams Law (35 P.S. §§ 691.602 and 691.605), and under the Clean Water Act as specified in 40 CFR §§ 122.41(a)(2) and (3), which are incorporated into 25 Pa. Code § 92a.41 by reference.

C. Need to Halt or Reduce Activity Not a Defense

The permittee may not maintain as a defense in an enforcement action that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance with the conditions of this General Permit. (25 Pa. Code § 92a.41(a) and 40 CFR § 122.41(c))

D. Penalties and Liability

Nothing in this General Permit shall be construed to preclude the institution of any legal action or to relieve the permittee or co-permittee(s) from any responsibilities, liabilities, or penalties to which the permittee or co-permittee is or may be subject under Section 311 of the Clean Water Act (33 U.S.C.A. § 1321) or Section 106 of Comprehensive Environmental Response, Compensation, and Liability Act (42 U.S.C.A. § 9606).

E. Property Rights

This General Permit does not convey any property rights of any sort, nor does this General Permit convey any exclusive privileges, and this General Permit does not authorize any injury to private property invasion of personal rights, or infringement of federal, state, or local laws or regulations.

F. Severability

The provisions of this General Permit are severable, and if any provision of this General Permit, or the application of any provision of this General Permit to any circumstance, is held invalid, the application of such provision to other circumstances and the remainder of this General Permit shall not be affected thereby.

G. Other Laws

Nothing in this General Permit shall be construed to preclude the institution of any legal action or to relieve the permittee or co-permittee from any responsibilities, liabilities, or penalties established pursuant to any applicable state law or regulation under authority preserved by Section 510 of the Clean Water Act (33 U.S.C.A. § 1370).

H. Right of Entry

Pursuant to Sections 5(b) and 305 of Pennsylvania's Clean Streams Law (35 P.S. §§ 691.5(b) and 691.305), 25 Pa. Code Chapter 92a, and section 1917-A of the Administrative Code of 1929, the permittee and co-permittee shall allow the Secretary of DEP, the EPA Regional Administrator, and/or an authorized representative of EPA, or DEP, including a delegated conservation district or, in the case of a facility which discharges to a municipal separate storm sewer, an authorized representative of the municipal operator or the separate storm sewer receiving the discharge, upon the presentation of credentials and other documents, as may be required by law, to:

1. Enter upon the permittee's or co-permittee's premises where a regulated facility or activity is located or conducted or where records must be kept under the terms and conditions of this General Permit;
2. Have access to and copy, at reasonable times, any records that must be kept under the terms and conditions of this General Permit;
3. Inspect any facilities or equipment (including monitoring and control equipment); and
4. Observe or sample any discharge of stormwater.

I. Availability of Reports

Except for data determined to be confidential under Section 607 of the Clean Streams Law (35 P.S. § 691.607), all reports prepared in accordance with the terms and conditions of this General Permit shall be available for public inspection at the offices of DEP or CCD. As required by the Clean Water Act, the Clean Streams Law, and DEP's regulations at 25 Pa. Code § 92a.8 (relating to confidentiality of information), permit applications/NOIs, permits, and other documents related to this General Permit shall not be considered confidential.

J. Penalties for Falsification of Reports

Section 309(c)(4) of the Clean Water Act (33 U.S.C.A. § 1319(c)(4)) provides that any person who knowingly makes any false material statement, representation, or certification in any record or other document submitted or required to be maintained under this General Permit, including reports of compliance or noncompliance shall, upon conviction, be punished by a fine of not more than \$10,000 or by imprisonment for not more than two (2) years or by both a fine and imprisonment. In addition, criminal sanctions are set forth for false swearing and unsworn falsification at 18 Pa.C.S. §§ 4903-4904.

K. Duty to Reapply

If the permittee wishes to continue an activity regulated by this General Permit after the expiration date of this General Permit, the permittee must timely apply for and obtain coverage under a new General Permit. (25 Pa. Code §§ 92a.3(c) and 92a.41(a)(2) and 40 CFR § 122.41(b))

PART C

OTHER CONDITIONS

I. PROHIBITION OF NON-STORMWATER DISCHARGES

All discharges covered by this General Permit shall be composed entirely of stormwater. Discharges other than those authorized by this General Permit must comply with separate NPDES permit coverage. The discharge of sewage or industrial waste to BMPs is not permitted.

II. EROSION AND SEDIMENT CONTROL PLANS

A. Unless otherwise authorized by DEP or CCD, earth disturbance activities shall, to the extent practicable, be planned and implemented to:

1. Minimize the extent and duration of earth disturbance.
2. Maximize protection of existing drainage features and vegetation.
3. Minimize soil compaction.
4. Utilize other measures or controls that prevent or minimize the generation of increased stormwater runoff.

B. An E&S Plan shall be prepared and implemented in accordance with the requirements of 25 Pa. Code Chapter 102 and by a person trained and experienced in E&S control methods and techniques applicable to the size and scope of the project being designed. Each E&S Plan must be submitted to and approved by DEP or CCD. The BMPs shall be designed to minimize the potential for accelerated erosion and sedimentation in order to protect, maintain, reclaim, and restore water quality and the existing and designated uses of the waters of this Commonwealth. Various BMPs and their design standards are listed in the *Erosion and Sediment Pollution Control Program Manual* (DEP ID No. 363-2134-008), as amended and updated. Approved E&S Plans and BMPs, and approved revisions thereto, which meet the requirements of 25 Pa. Code Chapters 93, 96 (relating to water quality standards implementation), and 102, are conditions of this General Permit and are incorporated by reference.

C. E&S Plans required under this General Permit are considered reports that shall be available to the public under Section 607 of the Clean Streams Law (35 P.S. § 691.607) and 25 Pa. Code Chapter 92a. The owner or operator of a facility with stormwater discharges covered by this General Permit shall make E&S Plans available to the public upon request. The permittee shall maintain the approved E&S Plan on-site during earth disturbance activities at all times and shall make the plan available for inspection by DEP or CCD upon request.

D. The approved E&S Plan, including the staging of earth disturbance activities and maintenance requirements, must be followed.

E. Upon the installation of all perimeter sediment control BMPs and at least three (3) days prior to proceeding with the bulk earth disturbance activities, the permittee or co-permittee shall provide notification to DEP or CCD by phone or electronic mail.

III. RECYCLING AND DISPOSAL OF BUILDING MATERIALS AND WASTES

All building materials and wastes must be removed from the site and recycled or disposed of in accordance with DEP's Solid Waste Management Regulations at 25 Pa. Code Chapter 260a (relating to hazardous waste management system: general), Chapter 271 (related to municipal waste management – general provisions), and Chapter 287 (relating to residual waste management – general provisions). No building material or wastes or unused building materials shall be burned, buried, dumped, or discharged at the site.

IV. PREPAREDNESS, PREVENTION, AND CONTINGENCY PLANS

If toxic, hazardous, or other polluting materials will be on site, the permittee or co-permittee(s) must develop a PPC Plan for use while those materials are on-site in accordance with 25 Pa. Code §§ 91.34 (relating to activities utilizing pollutants) and 102.5(l). The PPC Plan shall identify areas which may include, but are not limited to, waste management areas, raw material storage areas, fuel storage areas, temporary and permanent spoils storage areas, maintenance areas, and any other areas that may have the potential to cause non-compliance with the terms and conditions of this General Permit due to the storage, handling, or disposal of any toxic or hazardous substances

such as oil, gasoline, pesticides, herbicides, solvents, or concrete washwaters. BMPs shall be developed and implemented for each identified area. The PPC Plan shall be maintained on-site at all times and shall be made available for review at the request of DEP or CCD.

V. POST-CONSTRUCTION STORMWATER MANAGEMENT PLANS

- A. The management of post-construction stormwater shall, to the extent practicable, be planned and conducted to:
1. Preserve the integrity of stream channels and maintain and protect the physical, biological, and chemical qualities of the receiving stream.
 2. Prevent an increase in the rate of stormwater runoff.
 3. Minimize any increase in stormwater runoff volume.
 4. Minimize impervious areas.
 5. Maximize the protection of existing drainage features and existing vegetation.
 6. Minimize land clearing and grading.
 7. Minimize soil compaction.
 8. Utilize other structural or nonstructural BMPs that prevent or minimize changes in stormwater runoff.
- B. A PCSM Plan shall be prepared and implemented in accordance with the requirements of 25 Pa. Code Chapter 102 and by a person trained and experienced in PCSM design methods and in techniques applicable to the size and scope of the project being designed. The management of post-construction stormwater shall be planned and conducted in accordance with 25 Pa. Code § 102.8 (relating to PCSM requirements). Various BMPs and their design standards are detailed in the *Pennsylvania Stormwater Best Management Practices Manual* (DEP ID No. 363-0300-002), as amended and updated. Each PCSM Plan must be submitted to and approved by DEP or CCD. The PCSM Plan must employ stormwater management BMPs to control the volume, rate, and water quality of the post-construction stormwater runoff so as to protect and maintain the chemical, physical, and biological integrity, and the existing and designated uses of the waters of this Commonwealth. Approved PCSM Plans and BMPs, and approved revisions thereto, which meet the requirements of 25 Pa. Code Chapters 93, 96, and 102, are conditions of this General Permit and are incorporated by reference.
- C. PCSM Plans required under this General Permit are considered reports that shall be available to the public under Section 607 of the Clean Streams Law (35 P.S. § 691.607) and 25 Pa. Code Chapter 92a. The owner or operator of a facility with stormwater discharges covered by this General Permit shall make PCSM Plans available to the public upon request. The permittee shall maintain the authorized PCSM Plan on-site during earth disturbance activities at all times and shall make the plan available for inspection by DEP or CCD upon request.
- D. A licensed professional or their designee shall be present on-site and shall be responsible for oversight of critical stages of implementation of the approved PCSM Plan. The licensed professional will be responsible to provide a final certification, pursuant to 25 Pa. Code § 102.8(l) along with the required NOT and record drawings, indicating that the project site was constructed in accordance with the approved or modified PCSM Plan.
- E. The portion of a site reclamation or restoration plan that identifies PCSM BMPs to manage stormwater from pipelines or other similar utility infrastructure may be used to satisfy the PCSM requirements if the PCSM reclamation or restoration plan meets the requirements of 25 Pa. Code §§ 102.8(b), (c), (e), (f), (h), (i), (l), and when applicable, (m).

VI. PRE-CONSTRUCTION MEETING

For earth disturbance activities authorized by this General Permit, a pre-construction meeting is required, unless the permittee has been notified otherwise in writing by DEP or CCD. The permittee shall invite DEP and CCD to attend the pre-construction meeting and provide at least seven (7) days' notice of the pre-construction meeting to all invited attendees. Permittees, co-permittees, operators, and licensed professionals, or designees responsible for earth disturbance activity, including implementation of E&S, PCSM and PPC Plans and critical stages of implementation of the approved PCSM Plan, shall attend the pre-construction meeting.

VII. SPOIL OR BORROW AREAS

- A. An E&S Plan or other authorization meeting the regulatory requirements detailed in 25 Pa. Code § 102.4(b) shall be reviewed and approved by DEP or CCD and implemented for all spoil and borrow areas, regardless of their location.
- B. Clean Fill Requirements – Any person placing clean fill that has been affected by a spill or release of a regulated substance must use DEP Form FP-001 (Certification of Clean Fill) to certify the origin of the fill material and the results of the analytical testing to qualify the materials as clean fill. The form must be retained by the owner of the property receiving the fill. Fill material not qualifying as clean fill is regulated fill and must be managed in accordance with DEP's municipal or residual waste regulations based on 25 Pa. Code Chapters 271 or 287, whichever is applicable.

VIII. PHASED PROJECTS

Prior to the commencement of earth disturbance activities for subsequent phases of the project, the permittee or co-permittee(s) shall submit an E&S Plan and PCSM Plan and supporting information for each additional phase or portion of the project to DEP or CCD for approval. Coverage under this General Permit is only granted for those phases or portions of a project for which an E&S Plan and PCSM Plan has been submitted and approved by DEP or CCD. Permittees and co-permittees with phases commenced after expiration of this PAG-02 General Permit shall be responsible for complying with the final renewed, reissued, or amended General Permit.

IX. WETLAND PROTECTION

If hydric soils or other wetland features are present, a wetland determination must be conducted in accordance with applicable DEP procedures. A copy of any wetland determination conducted on the project site shall be provided to DEP or CCD as part of the NOI. All wetlands identified must be included on the E&S Plan and PCSM Plan. Special precautions must be taken to protect wetlands and other water resources identified in the NOI, plans, and other supporting documents.

X. INFILTRATION BMPs

The permittee and co-permittee(s) shall ensure that soil compaction is avoided or minimized in any areas where infiltration BMPs will be utilized. If the areas planned for infiltration BMPs are compromised through compaction or other means, additional soil testing must be performed to verify that the infiltration BMPs will perform as planned.

XI. STABILIZATION

Upon final completion of an earth disturbance activity or any stage or phase of an activity; or temporary cessation of the earth disturbance activity, or any stage or phase of an activity where the cessation of earth disturbance will exceed four (4) days, the project site shall be immediately stabilized in accordance with the requirements of 25 Pa. Code §102.22(a) or (b) (relating to site stabilization), as applicable. E&S BMPs shall be implemented and maintained until permanent stabilization is completed. Once permanent stabilization has been established the temporary E&S BMPs shall be removed. Any areas disturbed in the act of removing temporary E&S BMPs shall be permanently stabilized upon completion of the temporary E&S BMP removal activity.

XII. SEWAGE FACILITIES

Earth disturbance may not commence until all applicable Act 537 Sewage Facilities Planning approvals have been obtained.

XIII. LONG-TERM OPERATION AND MAINTENANCE OF PCSM BMPs

- A. The permittee or co-permittee shall be responsible for long-term O&M of PCSM BMPs unless a different person is identified in the NOT and that person has agreed to long-term O&M of PCSM BMPs.
- B. For any property containing a PCSM BMP, the permittee or co-permittee shall record an instrument with the Recorder of Deeds which will assure disclosure of the PCSM BMP and the related obligations in the ordinary course of a title search of the subject property within 45 days of approval of coverage under this General Permit, unless extended in writing by DEP or CCD. The recorded instrument must identify the PCSM BMPs, provide

for necessary access related to long-term O&M for PCSM BMPs, and provide notice that the responsibility for long-term O&M of the PCSM BMPs is a covenant that runs with the land that is binding upon and enforceable by subsequent grantees. The permittee shall provide DEP or CCD proof of filing of the instrument recording with a Transfer Application, if applicable, and the NOT.

- C. For Commonwealth-owned property, a covenant that runs with the land is not required until the transfer of the land containing a PCSM BMP occurs. Upon transfer of the Commonwealth-owned property containing the PCSM BMP, the deed must comply with 25 Pa. Code § 102.8(m). An agency of the federal government shall not be required to make or record a declaration of covenants on its property until transfer of the property to a non-federal or non-Commonwealth entity or individual. Upon transfer of the Commonwealth-owned or federally-owned property containing the PCSM BMP, the deed must comply with 25 Pa. Code § 102.8(m).
- D. The person responsible for performing long-term O&M may enter into a written agreement with another person, including a conservation district, nonprofit organization, municipality, authority, private corporation, or other person, to transfer the responsibility for PCSM BMPs or to perform long-term O&M and provide notice thereof to DEP.
- E. A permittee or co-permittee that fails to transfer long-term O&M of the PCSM BMPs or otherwise fails to comply with this requirement, shall remain jointly and severally responsible with the landowner for long-term O&M of the PCSM BMPs located on the property.
- F. Unless an alternative process is approved by DEP in writing, upon the sale or other transfer of any parcel, lot, road or other real property included within the permit boundary, the permittee shall notify the purchaser, grantee, or transferee of the long-term PCSM BMP O&M requirements. The permittee shall expressly identify the PCSM BMPs on each property, the schedule for inspection and reporting, the person or entity responsible for long-term O&M of the PCSM BMPs and how access to the BMPs will be achieved and shall obtain approval from the purchaser, grantee or transferee. Unless a later date is approved by DEP in writing, the permittee shall provide DEP and CCD with notice of compliance with this section within 45 days from the date of transfer of the property and at the time the permittee files an NOT.

XIV. VOLUNTARY RIPARIAN FOREST BUFFERS

Persons that protect, convert, or establish a new riparian forest buffer that meets the requirements of 25 Pa. Code § 102.14(b) (relating to riparian buffer criteria) may qualify for benefits under 25 Pa. Code §§ 102.14(e)(1) (relating to antidegradation presumption) and (2) (relating to trading or offsetting credits).

XV. IMPLEMENTATION OF GENERAL PERMIT REQUIREMENTS

- A. Prior to commencement of construction activities or commencement of work on the project site, the permittee and co-permittee(s) shall ensure that the following personnel understand the requirements of, and their specific responsibilities under, this General Permit:
 - Personnel responsible for the installation, maintenance, and/or repair of E&S and PCSM BMPs and implementation of the PPC Plan.
 - Personnel responsible for the application and storage of treatment chemicals (if applicable).
 - Personnel responsible for conducting inspections.
 - Personnel responsible for taking corrective actions.
- B. The permittee and co-permittee(s) are responsible for ensuring that all activities on the project site comply with the requirements of this General Permit. The permittee and co-permittee(s) are not required to provide or document formal training for subcontractors or other outside service providers, but the permittee and co-permittee(s) must ensure that personnel understand any requirements of this General Permit that are relevant to the work they are subcontracted to perform.

- C. At a minimum, the permittee and co-permittees must ensure that personnel understand the following if related to the scope of their job duties (e.g., only personnel responsible for conducting inspections need to understand how to conduct inspections).
- The General Permit deadlines associated with installation, maintenance, and removal of stormwater controls, and with site stabilization.
 - The location of all stormwater controls on the project site required by this General Permit and how they are to be maintained.
 - The proper procedures to follow with respect to the General Permit's pollution prevention requirements.
 - When and how to conduct inspections, record applicable findings, and take corrective actions.
- D. A training log must be kept on-site and made available upon request from EPA, DEP, or CCD staff.
- E. All personnel must have access at all times during earth disturbance activities to an electronic or paper copy of this General Permit, the approved copies of the E&S, PCSM and PPC Plans, and other relevant documents or information that must be kept with these plans.

XVI. THREATENED AND ENDANGERED SPECIES PROTECTION

- A. If applicable, the permittee and co-permittee(s) shall comply with the provisions of any Habitat Conservation Plan approved by the jurisdictional resource agencies to protect State or Federal threatened and endangered species.
- B. If any potential impact to federal or state threatened or endangered species is identified on the Pennsylvania Natural Diversity Inventory (PNDI) receipt, the permittee shall implement any avoidance/mitigation measures indicated on the PNDI receipt and/or other measures determined necessary by the resource agencies in a clearance letter, determination or other correspondence to resolve potential species impacts and ensure compliance with applicable federal and State laws pertaining to the protection of Federal or State threatened and endangered species.
- C. When conducting earth disturbance activities, the permittee and co-permittee(s) have a continuing obligation to ensure compliance with applicable state and federal laws pertaining to the protection of Federal or State threatened and endangered species.

Co-Permittee Form



CO-PERMITTEE ACKNOWLEDGEMENT FORM FOR CHAPTER 102 PERMITS

PERMITTEE / PROJECT INFORMATION

Permittee Name: _____ Contact Name: _____
Permittee Address: _____ Contact Phone: _____
Permittee City, State, ZIP: _____ Contact Email: _____
Project Name: _____
Municipality: _____ County: _____
Permit Type: PAG-01 PAG-02 IP ESCGP E&S Permit No.: _____
Permit Issuance Date: _____ Construction Commencement Date: _____

CO-PERMITTEE INFORMATION

Co-Permittee Name: _____ Contact Name: _____
Co-Permittee Address: _____ Contact Phone: _____
Co-Permittee City, State, ZIP: _____ Contact Email: _____
Co-Permittee's Role in Project: General Contractor Consultant Excavation Contractor Other
Date Role Will Commence: _____
Description of Responsibilities: _____

CERTIFICATION

Permittees: I am aware that I will be held jointly and severally liable for an activity conducted by any co-permittee that results in non-compliance with the Pennsylvania Clean Streams Law (CSL), 25 Pa. Code Chapter 102 regulations, and/or a permit issued pursuant to the CSL and Chapter 102 regulations.

Co-Permittees: I understand that I am assuming joint and severable responsibility, coverage, and liability under the permit for all duties, responsibilities, and non-compliance with the Chapter 102 permit. I certify that I will implement the requirements of the permit and the approved design plans and will notify the permittee and the agency that issued permit coverage prior to implementing changes to the plans.

Permittees and Co-Permittees: I certify under penalty of law (see 18 Pa.C.S. § 4904 (relating to unsworn falsification)) that the information reported herein was prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information submitted. Based on my inquiry of the person or persons who manage the information, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Permittee Name

Co-Permittee Name

Permittee Signature

Co-Permittee Signature

Permittee Title

Co-Permittee Title

Date of Signature

Date of Signature

Groundwater Discharge Limits Subsection

The Limitations represent a maximum daily average concentration, except where otherwise noted. Periodically, the specific pollutant concentration limitations may be changed because of new health effects studies, water quality reports, other adjustments to federal or state criteria or regulations or routine reevaluation of the limits by the Authority.

SPECIFIC POLLUTANT LIMITATIONS

METALS

Priority Pollutant	Concentration Limitation (mg/l)	TAIL (lb/day)
Cadmium (Total)	0.11	4.3
Chromium (Total)	2.60	99.2
Copper (Total)	7.00	264.2
Lead (Total)	2.30	85.7
Nickel (Total)	1.40	54.3
Zinc (Total)	11.70	442.0
Antimony (Total)	0.21	7.7
Arsenic (Total)	0.19	7.4
Beryllium (Total)	0.030	3.1
Mercury (Total)	0.05	1.8
Selenium (Total)	0.40	14.9
Silver (Total)	0.49	18.5
Thallium (Total)	1.60	61.4
Molybdenum (Total)	1.00	37.8

PASS THROUGH PROTECTION LEVEL

Cyanide (Total) (Instantaneous Limit)	3.9	147.6
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MISCELLANEOUS

Oil and Grease (Instantaneous Limit)	200
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TOXIC ORGANICS

Compound	CAS Number	Concentration Limitation (mg/l)	TAIL (lb/day)
Bis (2-Ethylhexyl) Phthalate	117-81-7	5.6	213.1
Butyl Benzyl Phthalate	85-68-7	45.0	1,698.8
Dibromochloromethane	124-48-1	0.48	18.2
Chloroform	67-66-3	8.7	328.2

Di-n-butyl Phthalate	84-74-2	24.7	931.2
Bromodichloromethane	75-27-4	0.35	13.1
Methylene Chloride	75-09-2	15.9	600.6
Tetrachloroethene	127- 18-4	1.8	68.4
Trichloroethene	79-01-6	4.7	177.1
Benzene	71-43-2	2.0	73.6
Xylenes	108-38-3, 106-42-3, 95-47-6	89.4	3,373.6

RESTRICTED POLLUTANT

Priority Pollutant	Concentration Limitation (mg/l)	TAIL (lb/day)
Aldrin	ND	
Alpha-BHC	ND	
Beta-BHC	ND	
Benzidine	ND	
Delta-BHC	ND	
Gamma-BHC (Lindane)	ND	
Chlordane	ND	
4,4'-DDD (p,p'TDE)	ND	
4,4'-DDE (p,p'DDX)	ND	
4,4'-DDT	ND	
Dieldrin	ND	
Alpha-endosulfan	ND	
Beta-endosulfan	ND	
Endosulfan Sulfate	ND	
Endrin	ND	
Endrin Aldehyde	ND	
Heptachlor	ND	
Heptachlor Epoxide	ND	
Polychlorinated Biphenyls (PCB)	ND	
2,3,7,8 Tetrachlorodibenzo-p- dioxin	ND	

Toxaphene

ND

ND¹ – Non-Detectable

2.5 Federal and State Requirements

All Users shall fully comply with applicable state and Federal laws and regulations.

The General Pretreatment Regulations for Existing and New Sources of Pollution set forth in 40 CFR Part 403 are hereby incorporated by reference into these regulations and made a part hereof, except to the extent such Federal regulations are less stringent than those set forth in these regulations, in which case these regulations shall apply.

State requirements and limitations on discharges shall apply in any case where they are more stringent than Federal Requirements and limitations or those in these regulations.

2.6 New or Changed Discharges

No User shall discharge new waste streams, discharge new pollutants in existing waste streams, substantially increase the quantity of pollutants currently discharged, or otherwise substantially change the volume or character of a Discharge without obtaining prior written approval from the Pretreatment Coordinator. A written request to make such changes must be submitted to the Coordinator at least thirty (30) days prior to the implementation of any such change or the implementation of any process change which would result in a substantial change in the quantity or quality of the existing discharge or the creation of a new wastewater discharge. Failure to apply for an obtain written authorization as herein provided may result in enforcement actions pursuant to Section 6 of these regulations, including but not limited to the revocation of any existing discharge permits issued to the User.

2.7 Excessive Discharge

No User shall increase the use of process water or, in any way, attempt to dilute a discharge as a partial or complete substitute for adequate treatment to achieve compliance with the limitations contained in the National Categorical Pretreatment Standards, or any other pollutant-specific limitation developed by ALCOSAN, or the State, unless specifically authorized to do so in writing by the authority which promulgated the applicable standard.

2.8 Accidental Discharges/Slug Discharges

- a) Each User shall provide protection from accidental discharge, slug discharge of any substance in violation of these regulations or applicable state or Federal laws or regulations. Facilities to prevent such accidental discharge, slug discharge shall be provided and maintained at the User's cost and expense.

¹ ND to be determined based on the lowest method detection limit, as defined by 40 CFR Part 136, for the approved analytical method.

Well Abandonment Forms

WATER WELL ABANDONMENT REPORT

Well Driller: **ALLPROBE ENVIRONMENTAL INC.**

Driller Well ID: **AL MW-01**

Driller License: **2486**

Local Permit #:

Type of Activity: **Well Abandonment**

Original Well By:

Reason for Abandonment: **Well was unused**

PA Well ID:

Date Abandoned: **1/7/2021**

Owner: **ALCOSAN Wastewater Treatment Plant**

Address of Well: **3300 Preble Avenue**

Zipcode: **15233**

County: **ALLEGHENY**

Municipality: **PITTSBURGH**

Municipality Type: **C**

Coordinate Method: **Commercial Street Atlas Program**

Quadrangle: **PITTSBURGH WEST**

Latitude: **40.47494**

Longitude: **-80.04325**

Well Depth (ft): **17**

Use of Well: **ABANDONED**

Use of Water: **UNUSED**

Description of Well Location and Other Notes:

2" MONITORING WELL WAS COMPLETELY PULLED FROM GROUND AND BOREHOLE WAS COMPLETELY FILLED WITH BENTONITE

BOREHOLE

Section 1: Top: **0** Bottom: **17** Diameter: **2.8**

CASING PULLED

Casing 1:

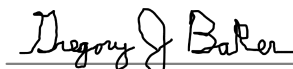
Top: **0** Bottom: **17** Diameter: **2** Material: **PVC OR OTHER PLASTIC**

WELL FILL MATERIAL

Seal(Grout) 1:

Top: **0** Bottom: **17** Type: **BENTONITE CHIPS/PELLETS**

I hereby certify that the above information is true and complete to the best of my knowledge and belief.



02/04/2021

Driller's Signature

Date

WATER WELL ABANDONMENT REPORT

Well Driller: **ALLPROBE ENVIRONMENTAL INC.**

Driller Well ID: **AL MW-07**

Driller License: **2486**

Local Permit #:

Type of Activity: **Well Abandonment**

Original Well By:

Reason for Abandonment: **Well was unused**

PA Well ID:

Date Abandoned: **1/7/2021**

Owner: **ALCOSAN Wastewater Treatment Plant**

Address of Well: **3300 Preble Avenue**

Zipcode: **15223**

County: **ALLEGHENY**

Municipality: **PITTSBURGH**

Municipality Type: **C**

Coordinate Method: **Digital Quadrangle Map**

Quadrangle: **PITTSBURGH WEST**

Latitude: **40.47505**

Longitude: **-80.04333**

Well Depth (ft): **21**

Use of Well: **ABANDONED**

Use of Water: **UNUSED**

Description of Well Location and Other Notes:

2" MONITORING WELL WAS COMPLETELY PULLED FROM GROUND AND BOREHOLE WAS COMPLETELY FILLED WITH BENTONITE

BOREHOLE

Section 1: Top: **0** Bottom: **21** Diameter: **2.8**

CASING PULLED

Casing 1:

Top: **0** Bottom: **21** Diameter: **2** Material: **PVC OR OTHER PLASTIC**

WELL FILL MATERIAL

Seal(Grout) 1:

Top: **0** Bottom: **21** Type: **BENTONITE CHIPS/PELLETS**

I hereby certify that the above information is true and complete to the best of my knowledge and belief.



02/04/2021

Driller's Signature

Date

WATER WELL ABANDONMENT REPORT

Well Driller: **ALLPROBE ENVIRONMENTAL INC.**

Driller Well ID: **AL MW-08**

Driller License: **2486**

Local Permit #:

Type of Activity: **Well Abandonment**

Original Well By:

Reason for Abandonment: **Well was unused**

PA Well ID:

Date Abandoned: **1/7/2021**

Owner: **ALCOSAN Wastewater Treatment Plant**

Address of Well: **3300 Preble Avenue**

Zipcode: **15233**

County: **ALLEGHENY**

Municipality: **PITTSBURGH**

Municipality Type: **C**

Coordinate Method: **Commercial Street Atlas Program**

Quadrangle: **PITTSBURGH WEST**

Latitude: **40.47510**

Longitude: **-80.04334**

Well Depth (ft): **21**

Use of Well: **ABANDONED**

Use of Water: **UNUSED**

Description of Well Location and Other Notes:

2" MONITORING WELL WAS COMPLETELY PULLED FROM GROUND AND BOREHOLE WAS COMPLETELY FILLED WITH BENTONITE

BOREHOLE

Section 1: Top: **0** Bottom: **21** Diameter: **2.8**

CASING PULLED

Casing 1:


Top: **0** Bottom: **21** Diameter: **2** Material: **PVC OR OTHER PLASTIC**

WELL FILL MATERIAL

Seal(Grout) 1:

Top: **0** Bottom: **21** Type: **BENTONITE CHIPS/PELLETS**

I hereby certify that the above information is true and complete to the best of my knowledge and belief.



02/04/2021

Driller's Signature

Date

WATER WELL ABANDONMENT REPORT

Well Driller: **ALLPROBE ENVIRONMENTAL INC.**

Driller Well ID: **AL MW-09**

Driller License: **2486**

Local Permit #:

Type of Activity: **Well Abandonment**

Original Well By:

Reason for Abandonment: **Well was unused**

PA Well ID:

Date Abandoned: **1/7/2021**

Owner: **ALCOSAN Wastewater Treatment Plant**

Address of Well: **3300 Preble Avenue**

Zipcode: **15233**

County: **ALLEGHENY**

Municipality: **PITTSBURGH**

Municipality Type: **C**

Coordinate Method: **Commercial Street Atlas Program**

Quadrangle: **PITTSBURGH WEST**

Latitude: **40.47513**

Longitude: **-80.04305**

Well Depth (ft): **10**

Use of Well: **ABANDONED**

Use of Water: **UNUSED**

Description of Well Location and Other Notes:

2" MONITORING WELL WAS COMPLETELY PULLED FROM GROUND AND BOREHOLE WAS COMPLETELY FILLED WITH BENTONITE

BOREHOLE

Section 1: Top: **0** Bottom: **10** Diameter: **2.8**

CASING PULLED

Casing 1:

Top: **0** Bottom: **10** Diameter: **2** Material: **PVC OR OTHER PLASTIC**

WELL FILL MATERIAL

Seal(Grout) 1:

Top: **0** Bottom: **10** Type: **BENTONITE CHIPS/PELLETS**

I hereby certify that the above information is true and complete to the best of my knowledge and belief.



02/04/2021

Driller's Signature

Date

WATER WELL ABANDONMENT REPORT

Well Driller: **ALLPROBE ENVIRONMENTAL INC.**

Driller Well ID: **AL MW-10**

Driller License: **2486**

Local Permit #:

Type of Activity: **Well Abandonment**

Original Well By:

Reason for Abandonment: **Well was unused**

PA Well ID:

Date Abandoned: **1/7/2021**

Owner: **ALCOSAN Wastewater Treatment Plant**

Address of Well: **3300 Preble Avenue**

Zipcode: **15233**

County: **ALLEGHENY**

Municipality: **PITTSBURGH**

Municipality Type: **C**

Coordinate Method: **Commercial Street Atlas Program**

Quadrangle: **PITTSBURGH WEST**

Latitude: **40.47506**

Longitude: **-80.04319**

Well Depth (ft): **20**

Use of Well: **ABANDONED**

Use of Water: **UNUSED**

Description of Well Location and Other Notes:

2" MONITORING WELL WAS COMPLETELY PULLED FROM GROUND AND BOREHOLE WAS COMPLETELY FILLED WITH BENTONITE

BOREHOLE

Section 1: Top: **0** Bottom: **20** Diameter: **2.8**

CASING PULLED

Casing 1:

Top: **0** Bottom: **20** Diameter: **2** Material: **PVC OR OTHER PLASTIC**

WELL FILL MATERIAL

Seal(Grout) 1:

Top: **0** Bottom: **20** Type: **BENTONITE CHIPS/PELLETS**

I hereby certify that the above information is true and complete to the best of my knowledge and belief.

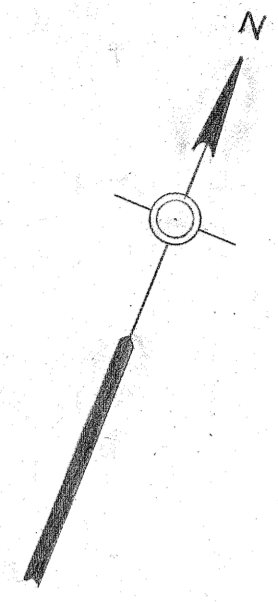
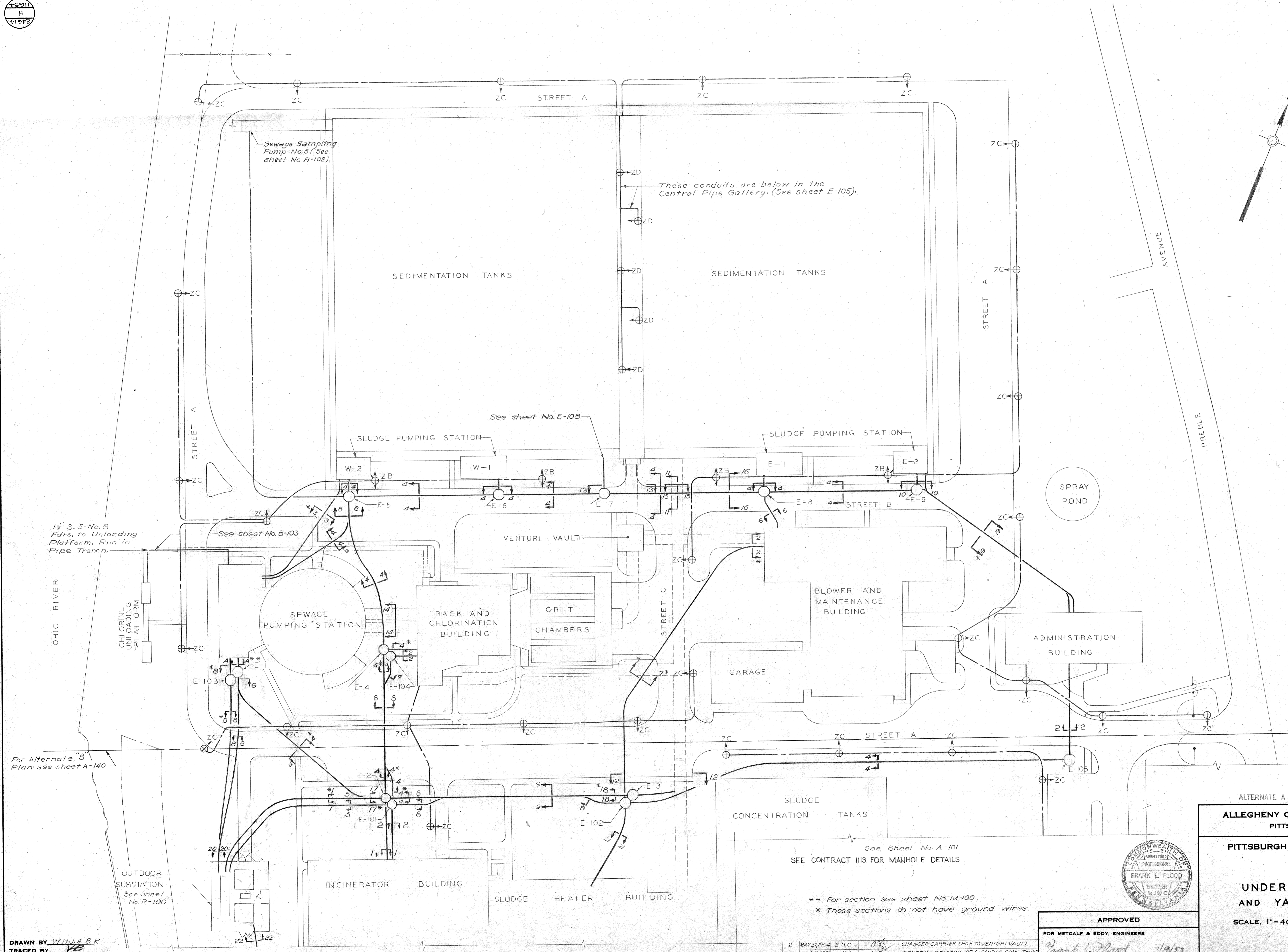


02/04/2021

Driller's Signature

Date

Electrical Ductbank Reference Drawings



- LEGEND**
- Parkway Cable
 - Fiber Duct in concrete envelope
 - ⊕ Street Lighting Standard

- Notes:**
1. Direction of arrow on the symbol ⊕ indicates position of arm on lighting standard.
 2. E-2 indicates electric manhole (440 volts); E-101 indicates electric manhole (4160V).
 3. Ducts in underground system are 4" fiber unless otherwise indicated.
 4. For details of manholes & ducts see sheets no. A-102 & A-103.
 5. Street lighting circuits to be in multiple with ballasts in base of lighting standards. Circuits to be operated by photoelectric cell (Diag. 13, sh. A-137).
 6. For street lighting circuits above central pipe gallery see sheets E-107, E-108.
 7. For other notes and symbols, see sheet No. A-116.
 8. All street lighting standards are to be grounded to a ground rod as indicated in detail "A-A", sheet no. A-116.

ALTERNATE A - MULTIPLE HEARTH INCINERATOR

ALLEGHENY COUNTY SANITARY AUTHORITY
PITTSBURGH, PENNSYLVANIA

PITTSBURGH SEWAGE TREATMENT PLANT

ELECTRICAL

UNDERGROUND SYSTEM AND YARD LIGHTING - I

SCALE: 1" = 40' 1953

APPROVED

FOR METCALF & EDDY, ENGINEERS

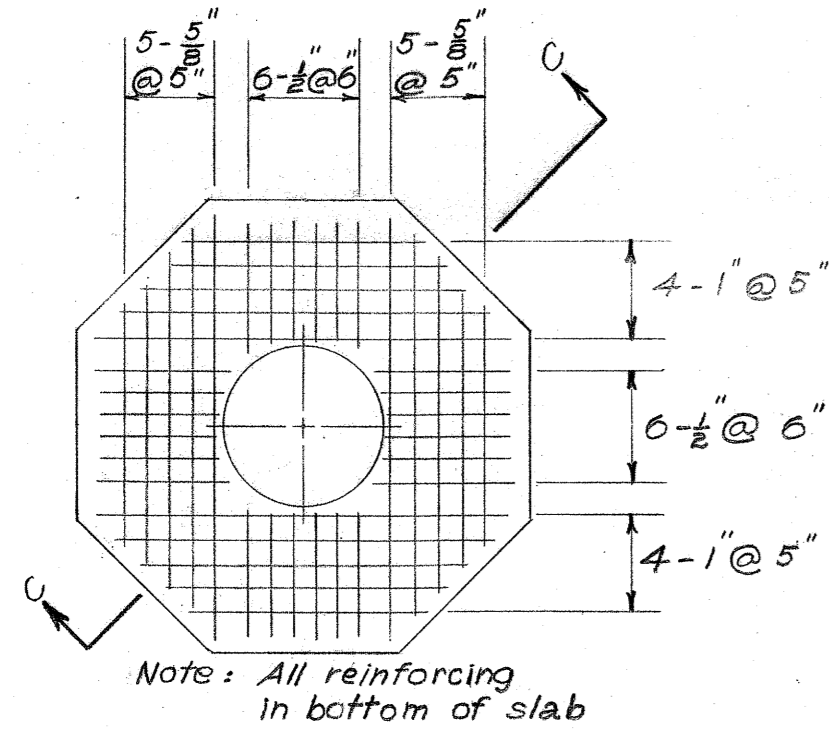
Frank L. Flood 1/9/53

REG. PROF. ENGR. PA. NO. 127 - E DATE

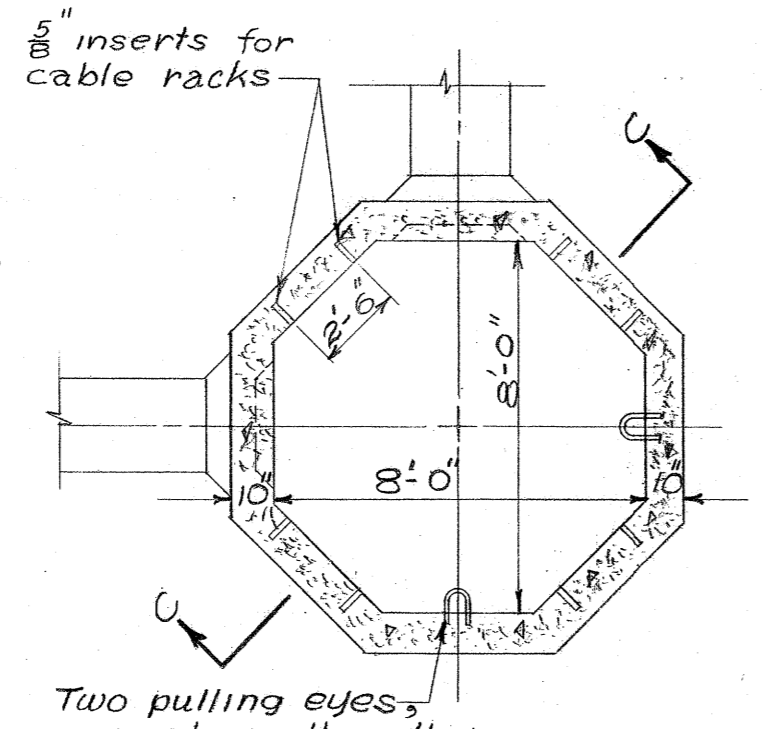
METCALF & EDDY ENGINEERS BOSTON, MASS.

DRAWN BY *W.H.J. & B.K.*
TRACED BY *V.B.*
CHECKED BY *A.V.*

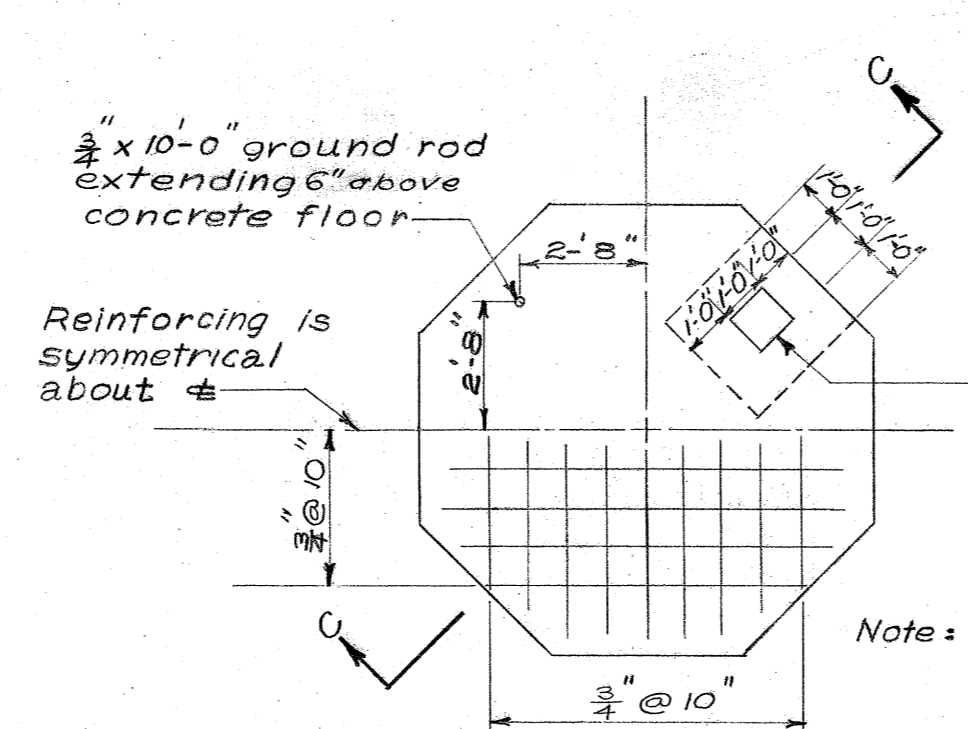
NO.	DATE	BY	DESCRIPTION
2	MAY 27, 1954	S.G.C.	CHANGED CARRIER SHOP TO VENTURI VAULT
1	NOV. 12, 1953	W.H.J.	GENERAL DELETION OF 6 SLUDGE CONC. TANKS
			REVISION MADE BY CHECKED BY



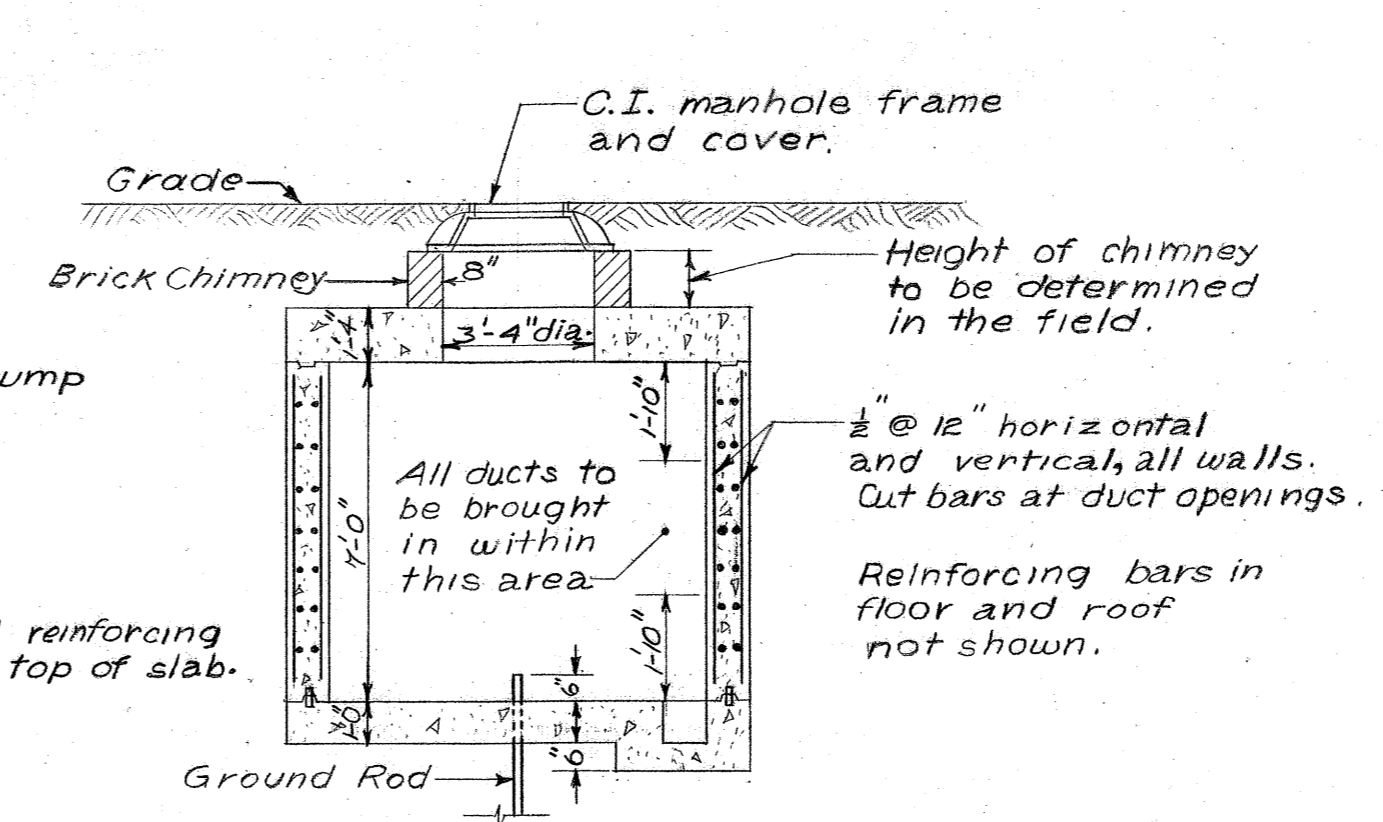
ROOF PLAN



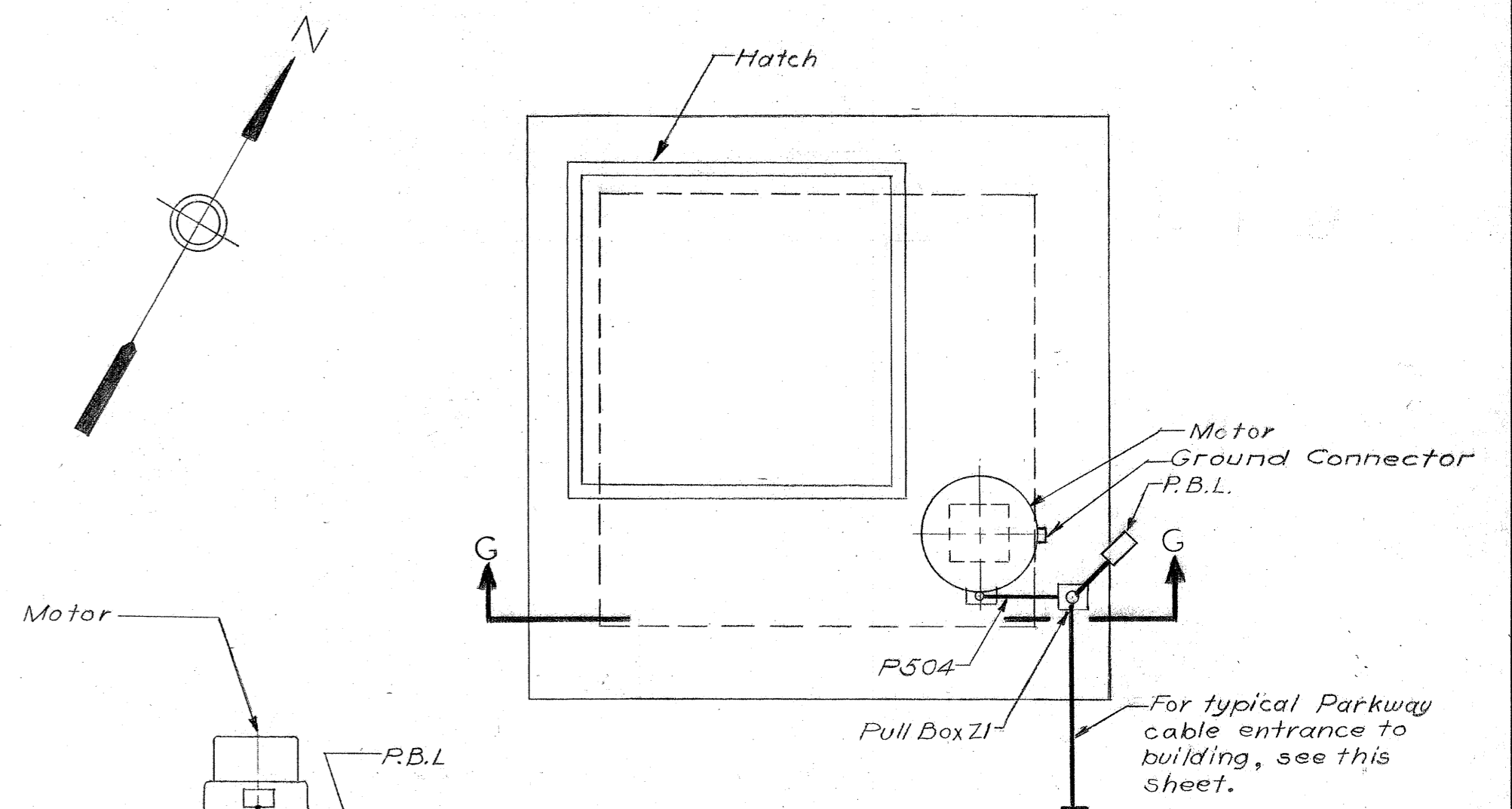
WALL PLAN



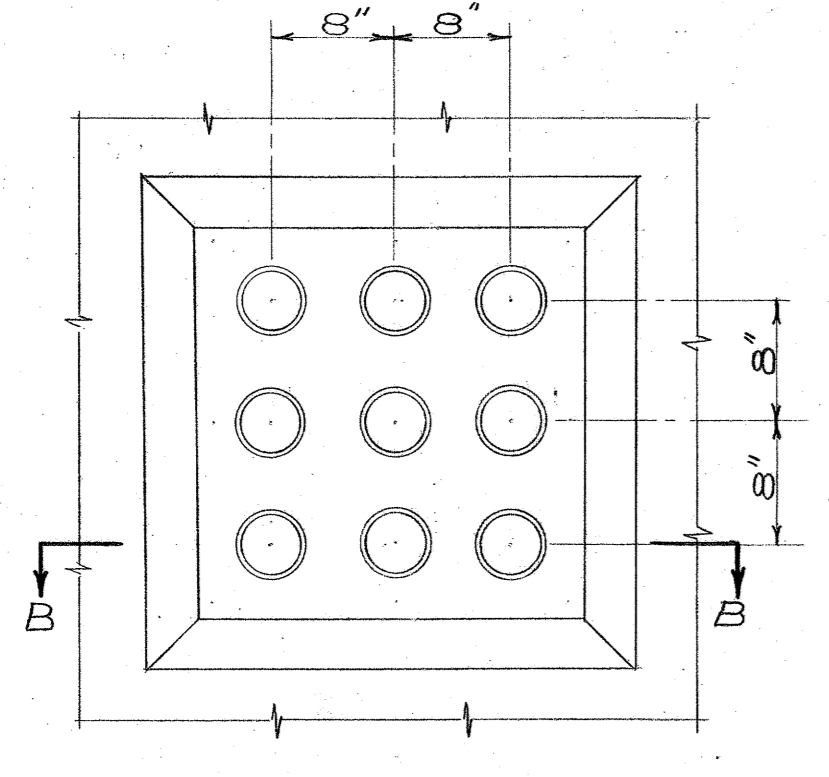
FLOOR PLAN



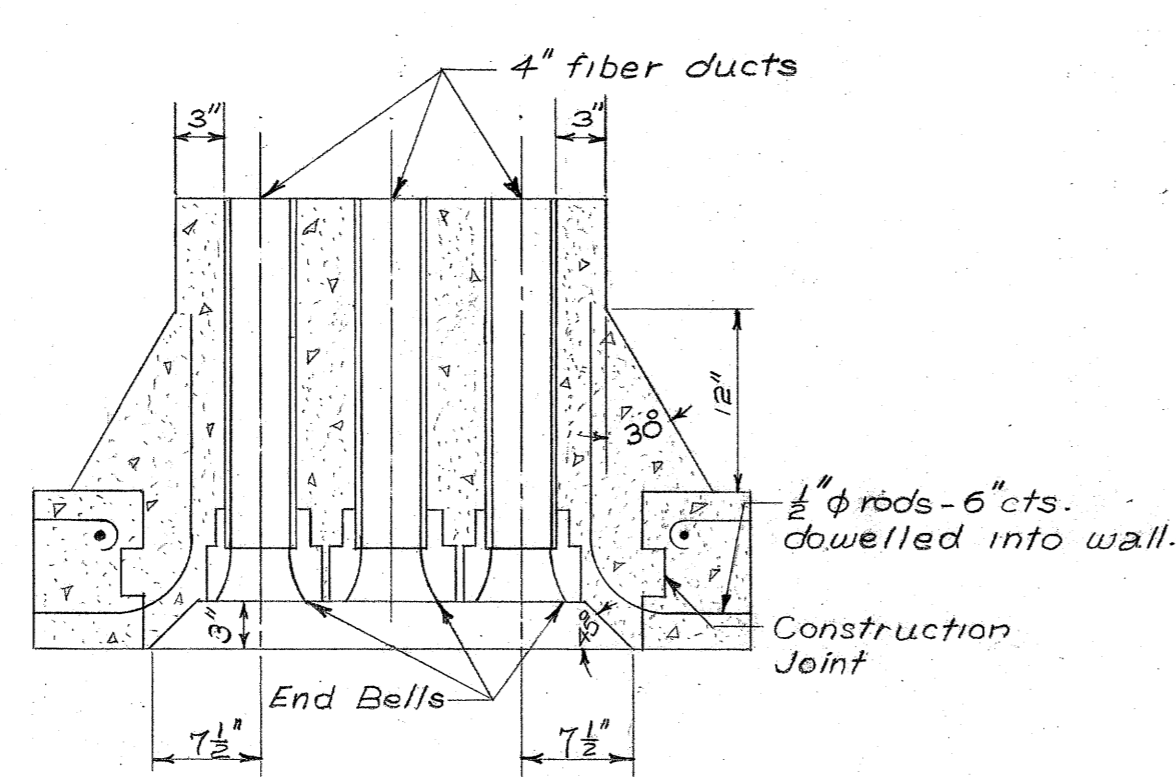
SECTION C-C



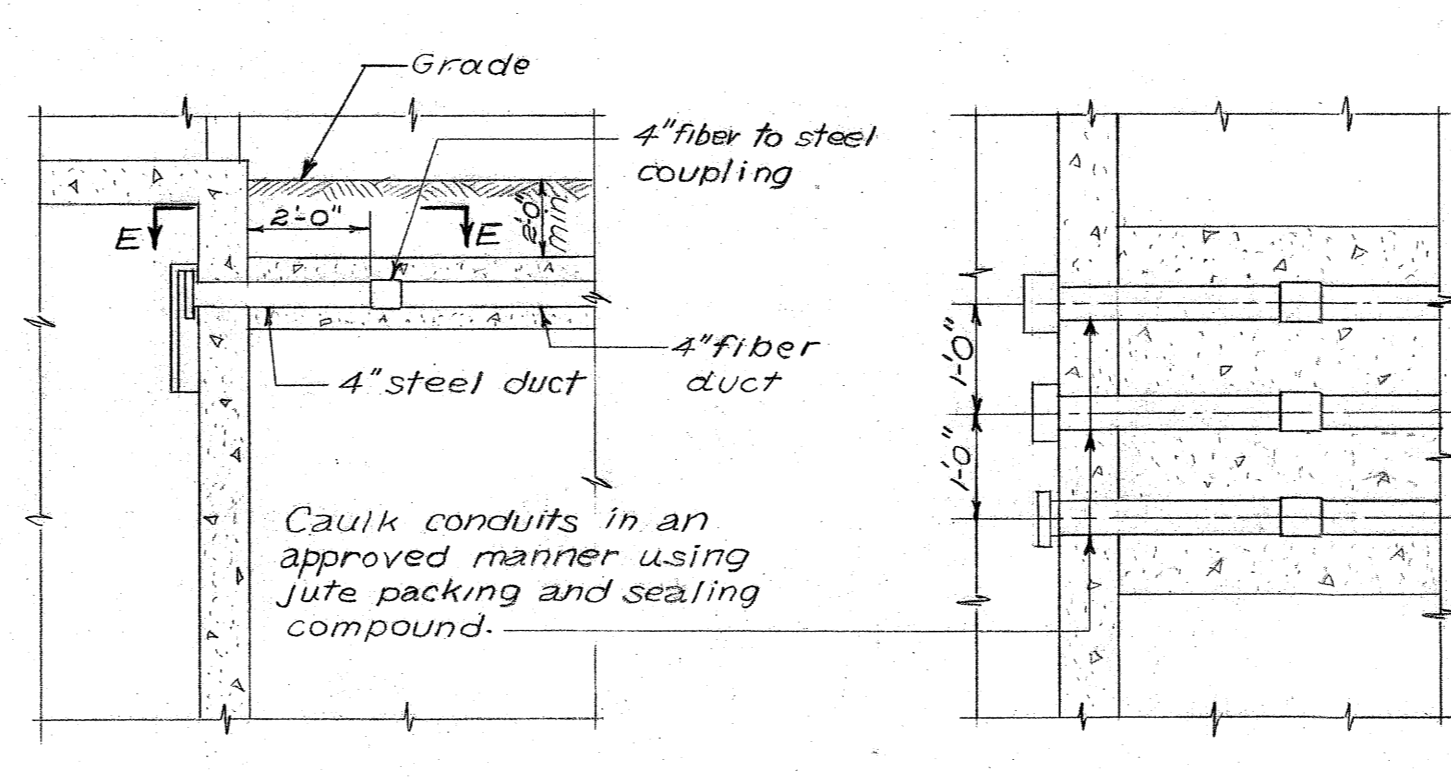
SECTION G-G



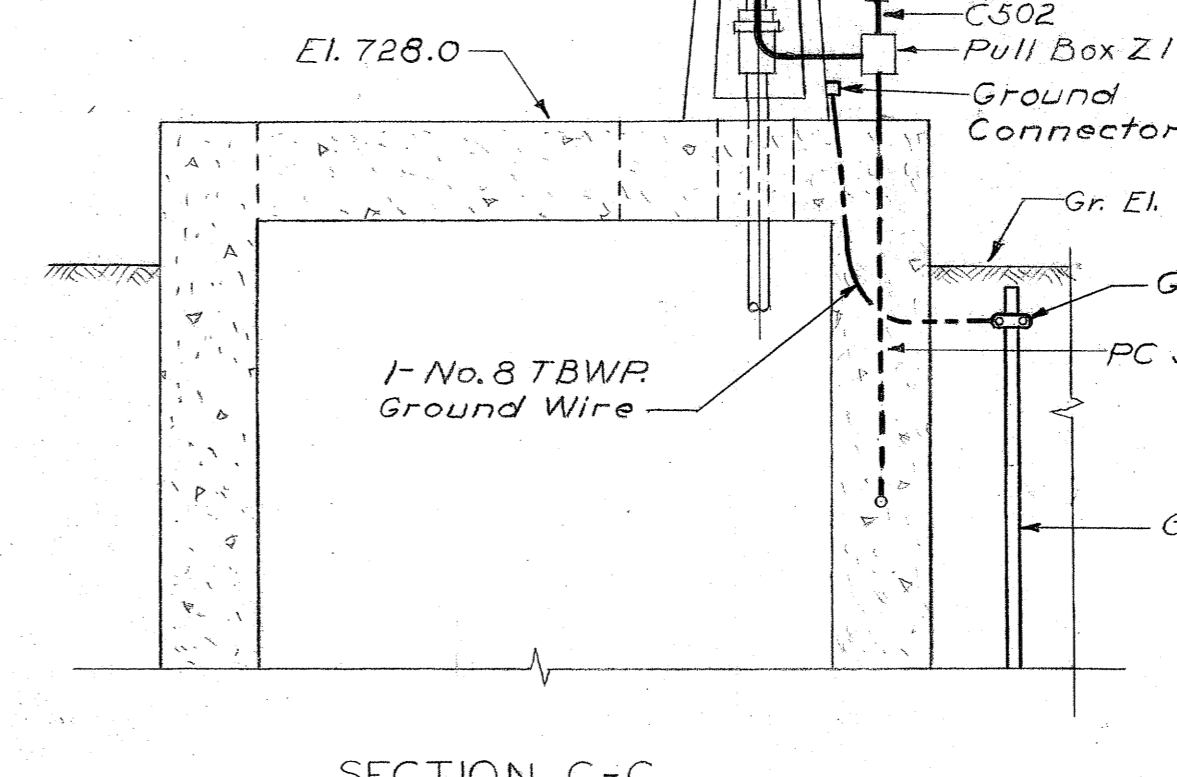
TYPICAL DUCT ENTRANCE TO MANHOLE
No Scale



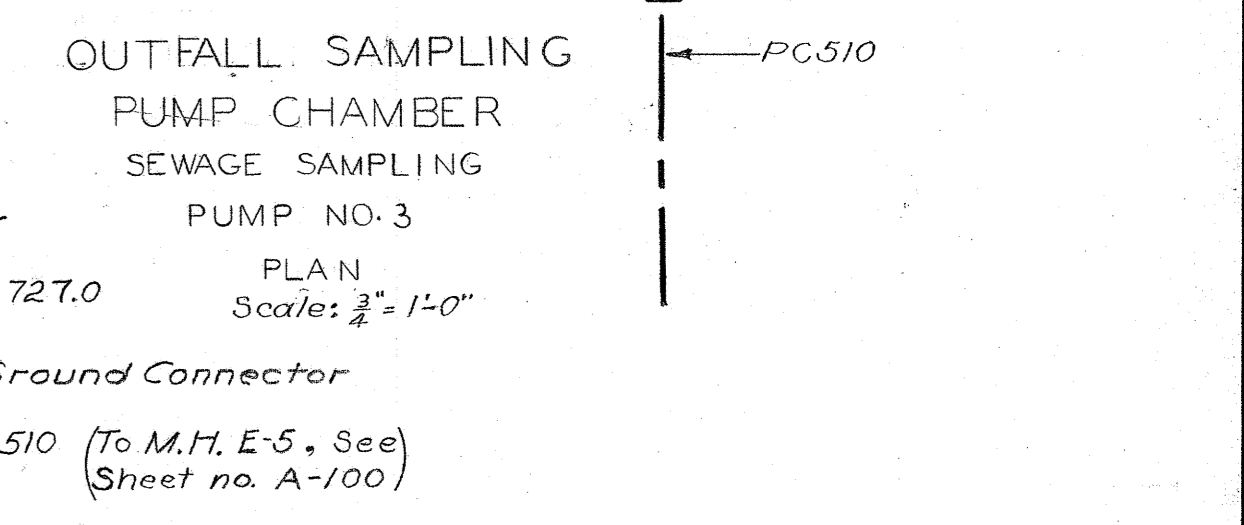
SECTION B-B



TYPICAL DUCT ENTRANCE TO BUILDING
No Scale

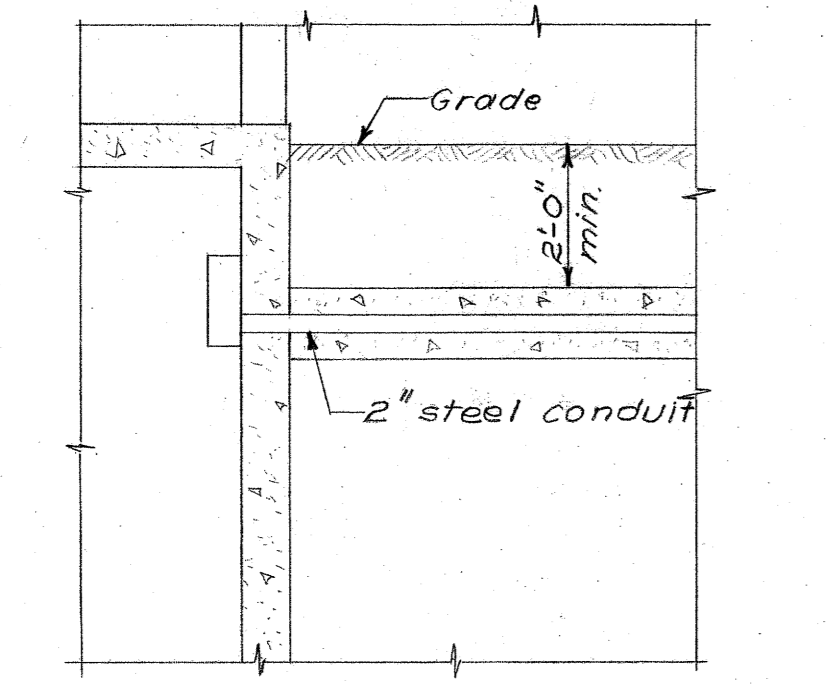


SECTION E-E

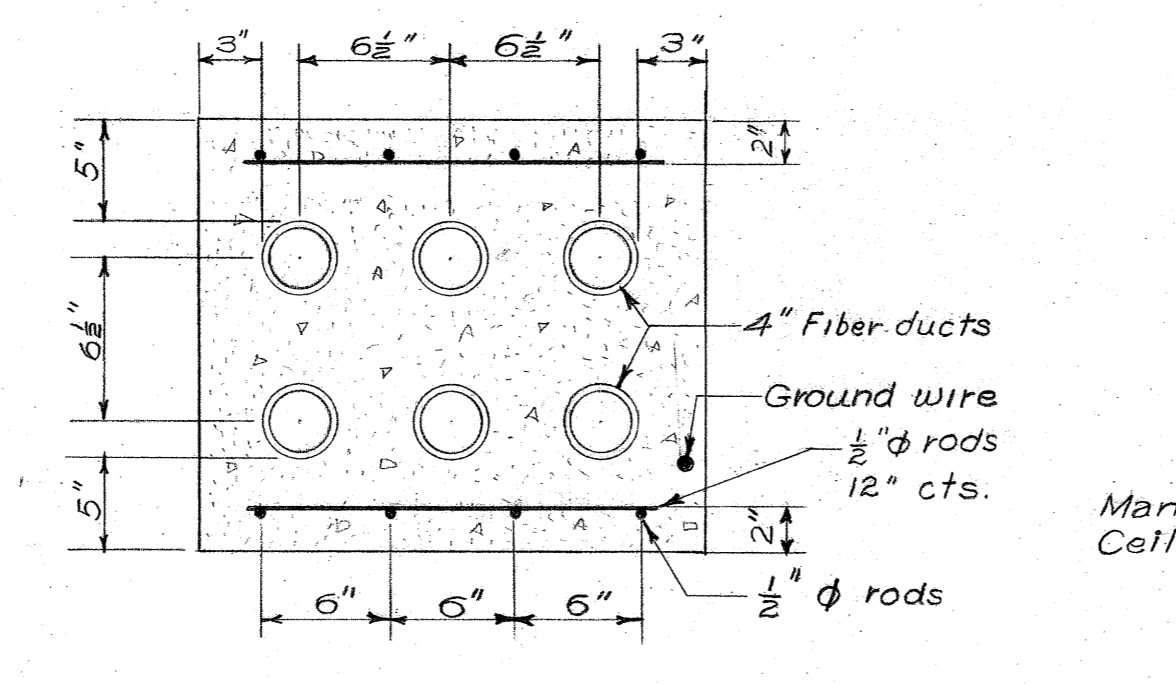


Notes:

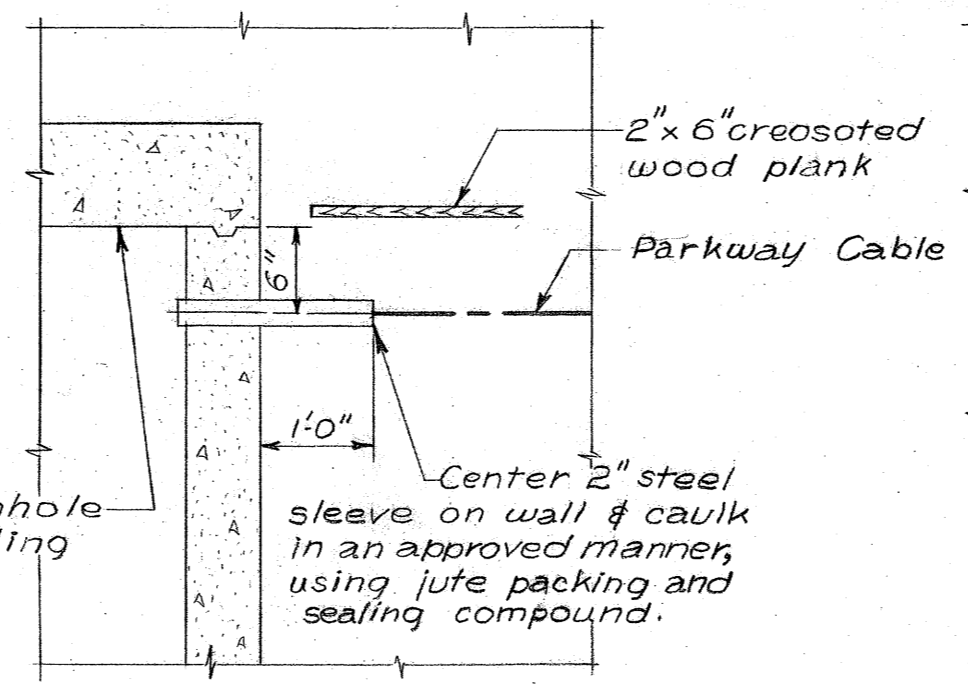
1. Terminate all steel conduits in manholes with conduit grounding bushings and fibre conduits with approved end bells.
2. All conduit to be 4" fiber unless otherwise noted.
3. Spare conduits shall be plugged and sealed.
4. All ducts shall drain from high point to manhole with not less than 1% slope.
5. High point of duct between manholes shall have not less than 18" of cover.
6. Use Class "A" concrete for all manhole construction.
7. Ground rods to be installed in all manholes and ground cable to be securely attached to each by "Ever-dur" or equal clamp-type connectors.
8. For other notes and symbols see sheet A-116.



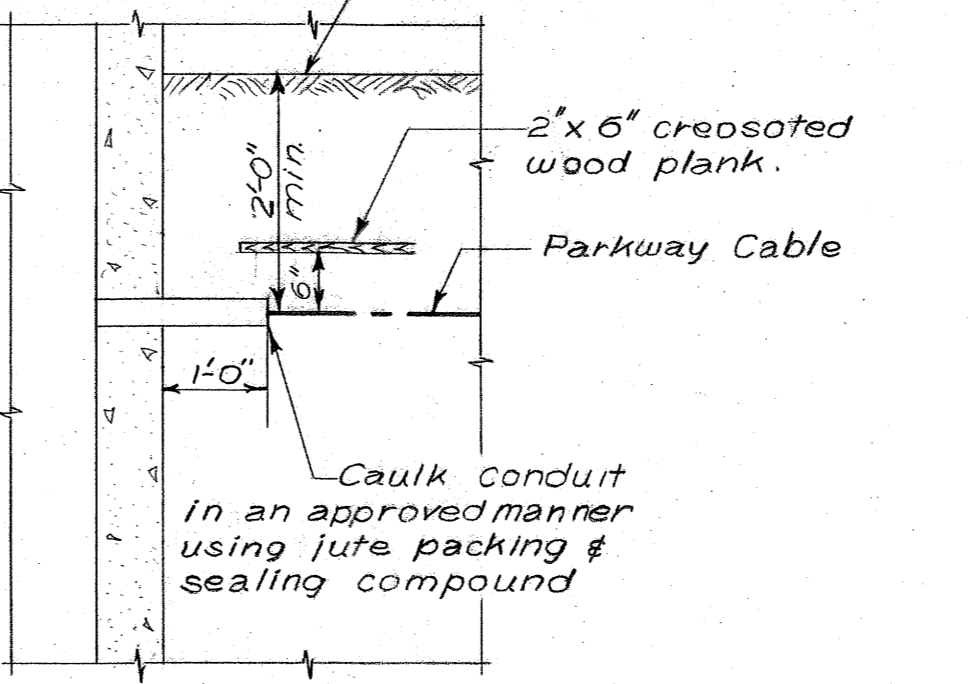
TYPICAL TELEPHONE DUCT ENTRANCE TO BUILDING
No Scale



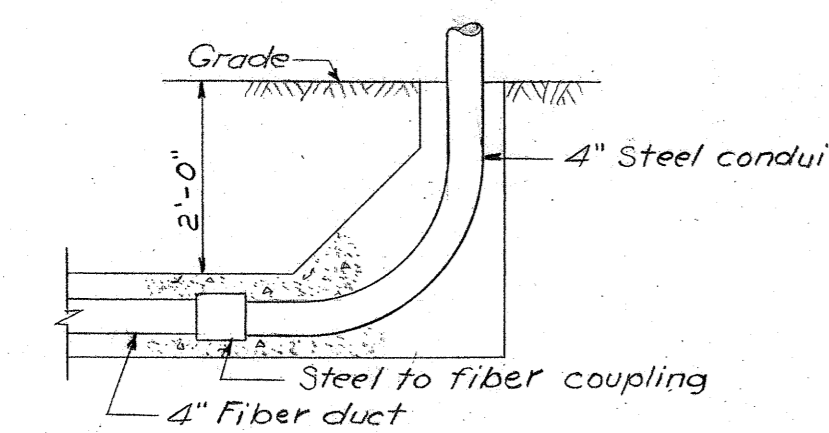
TYPICAL FIBER DUCT BANK
No Scale



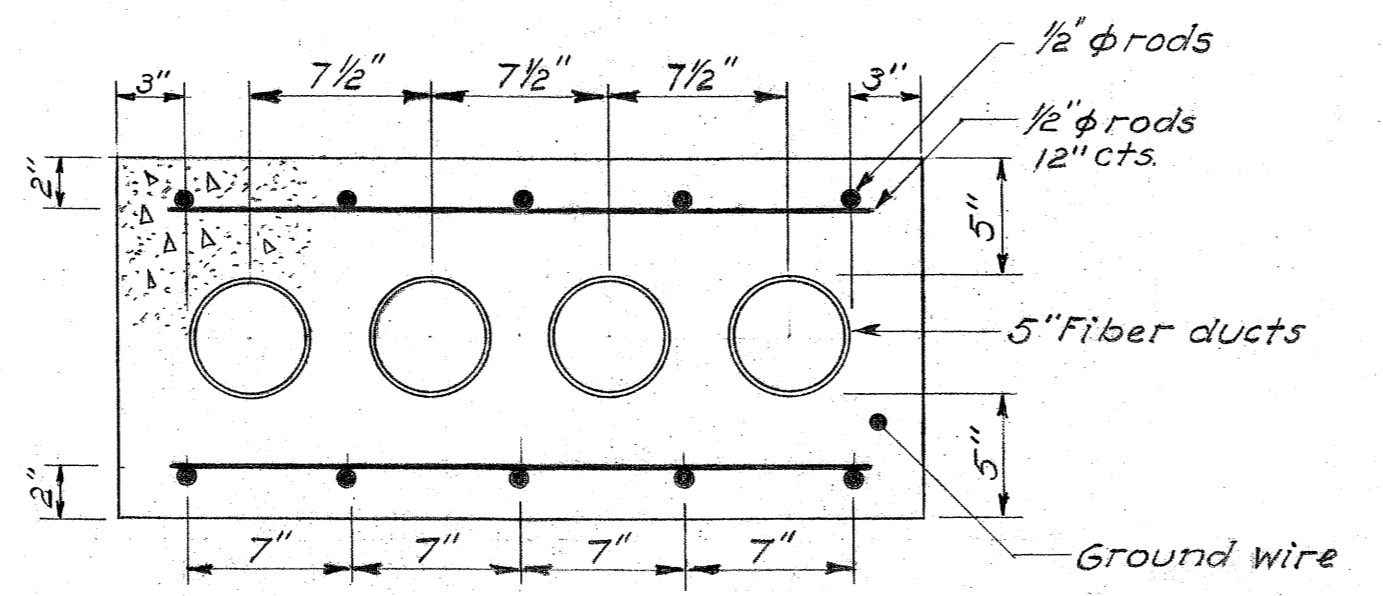
TYPICAL PARKWAY CABLE ENTRANCE TO MANHOLE
No Scale



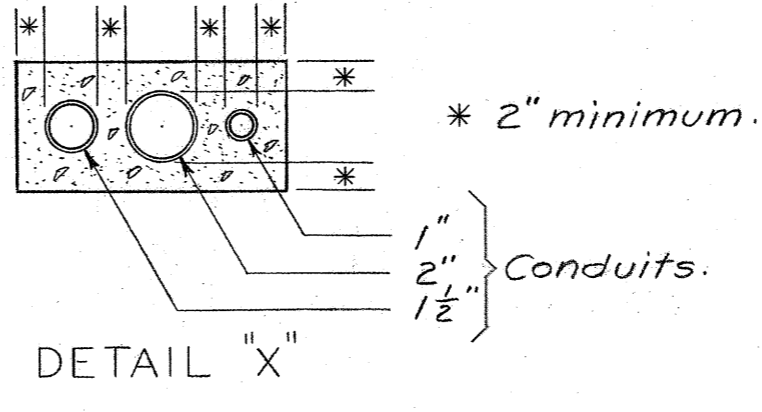
TYPICAL PARKWAY CABLE ENTRANCE TO BUILDING
No Scale



TYPICAL DUCT RISER
No Scale



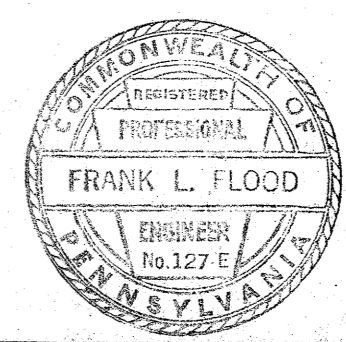
TYPICAL FIBER DUCT BANK
No Scale



DETAIL "X"

DRAWN BY B.K. & W.H.J.
TRACED BY V.B.
CHECKED BY [Signature]

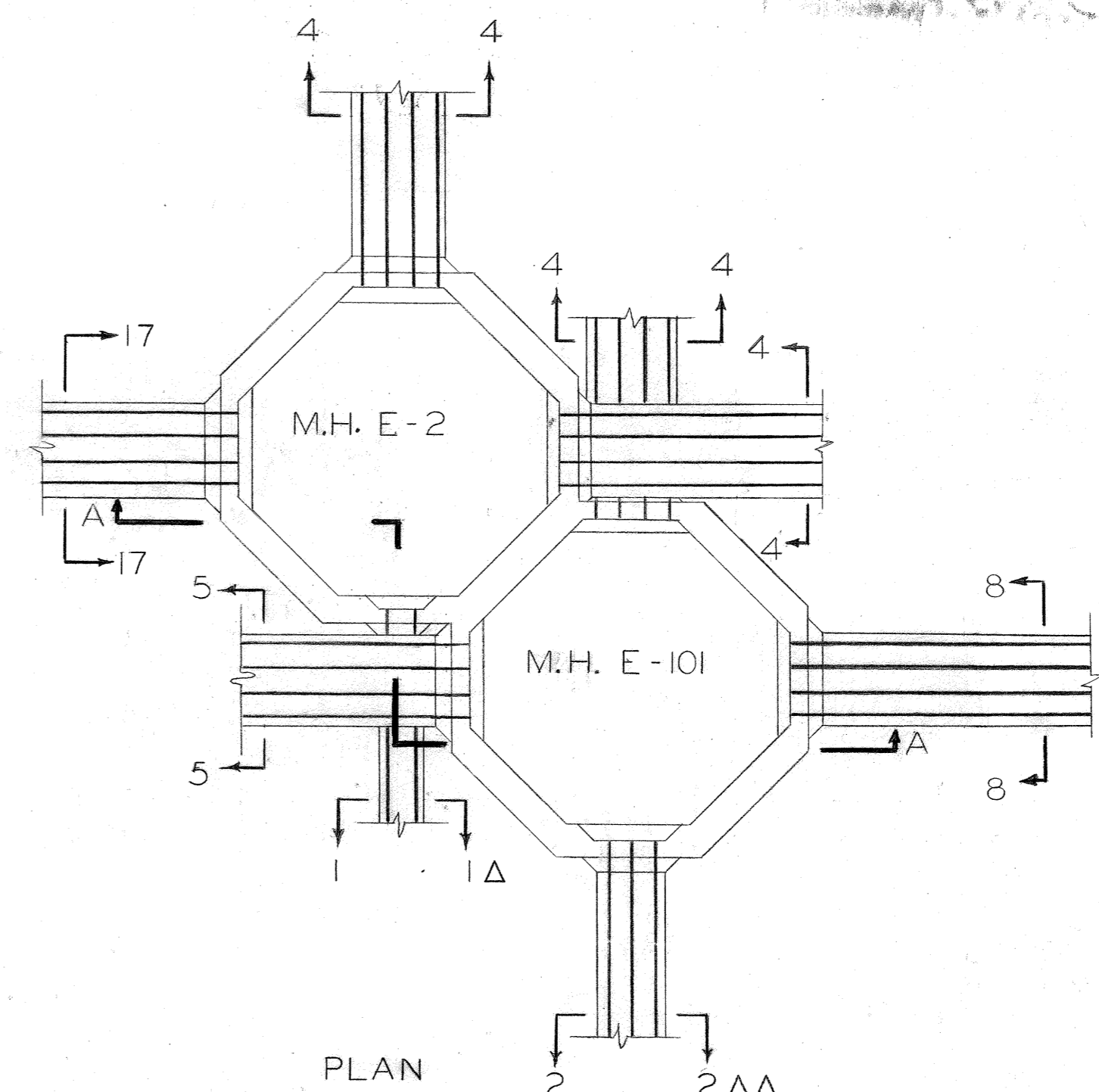
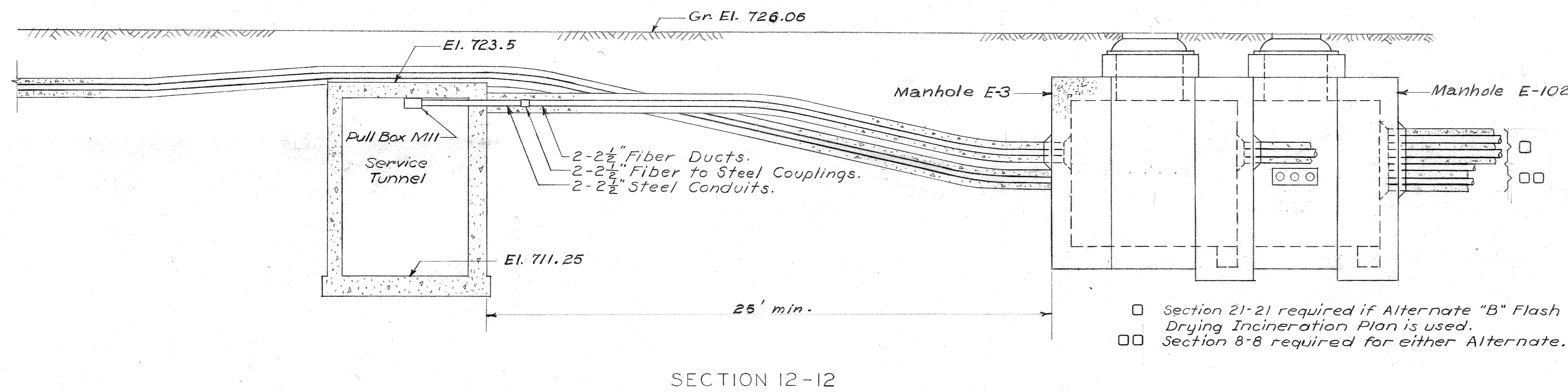
APPROVED
FOR METCALF & EDDY, ENGINEERS
[Signature]
REG. PROF. ENGR. PA. NO. 127-E DATE 1/9/53



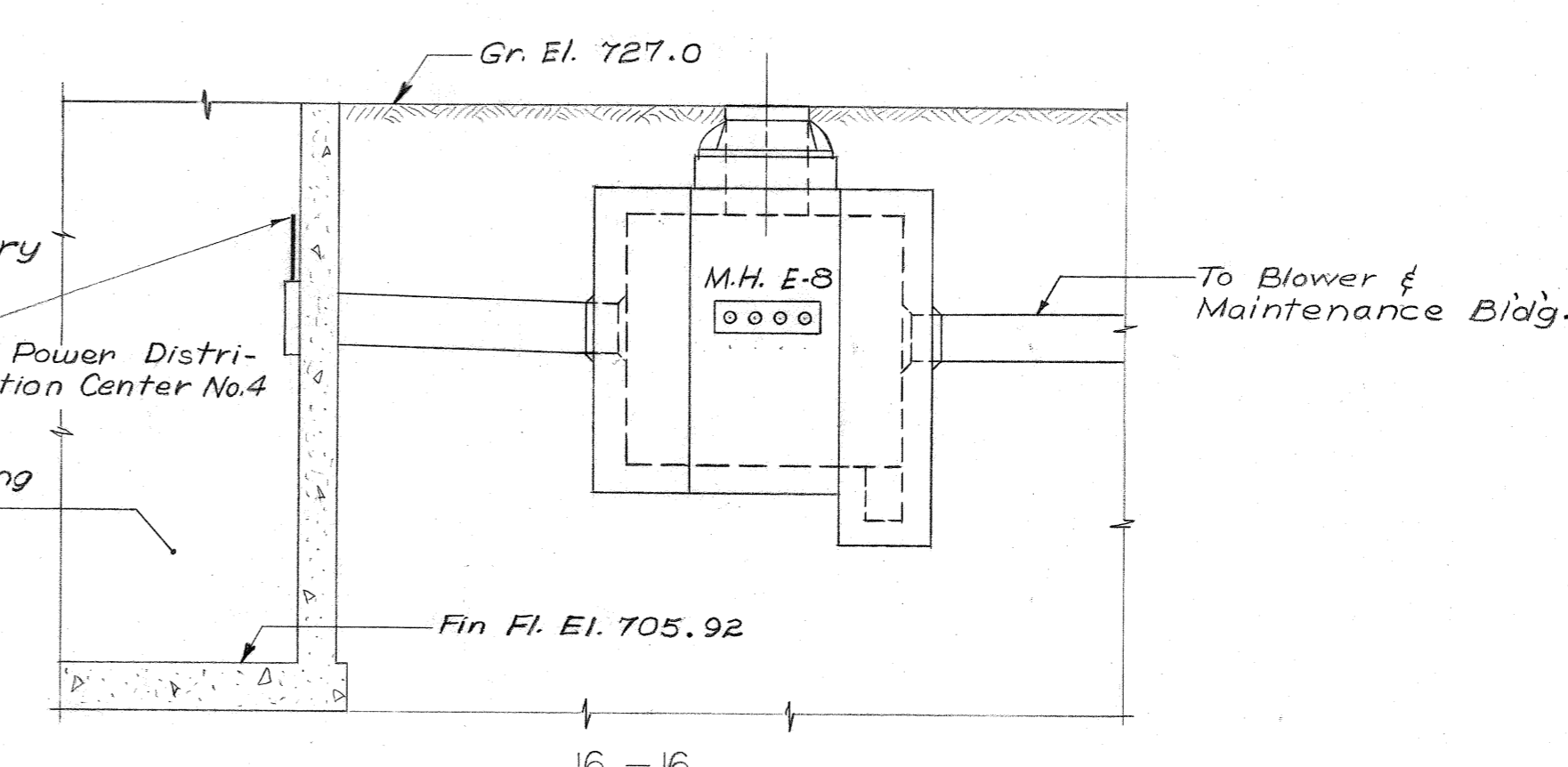
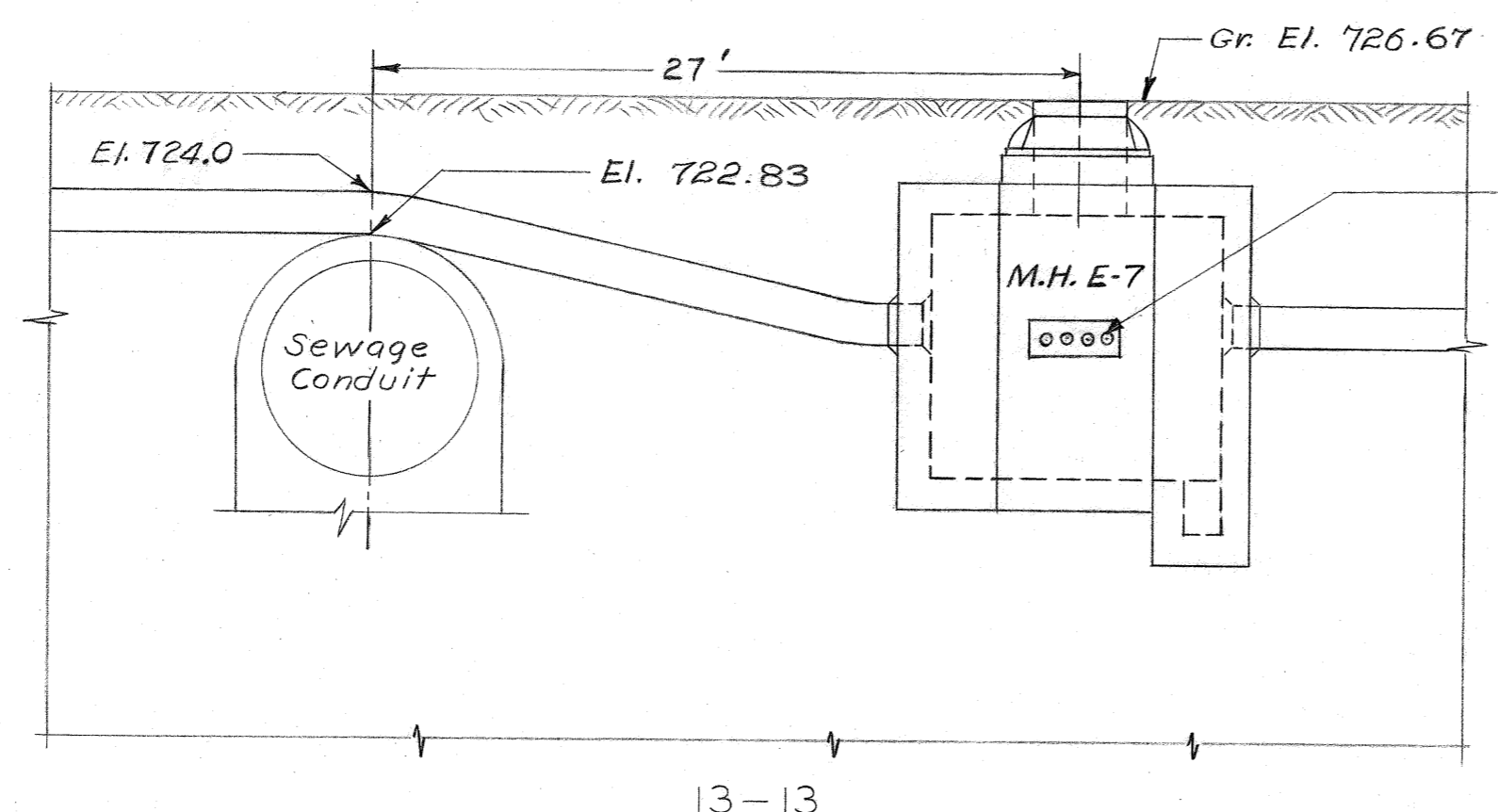
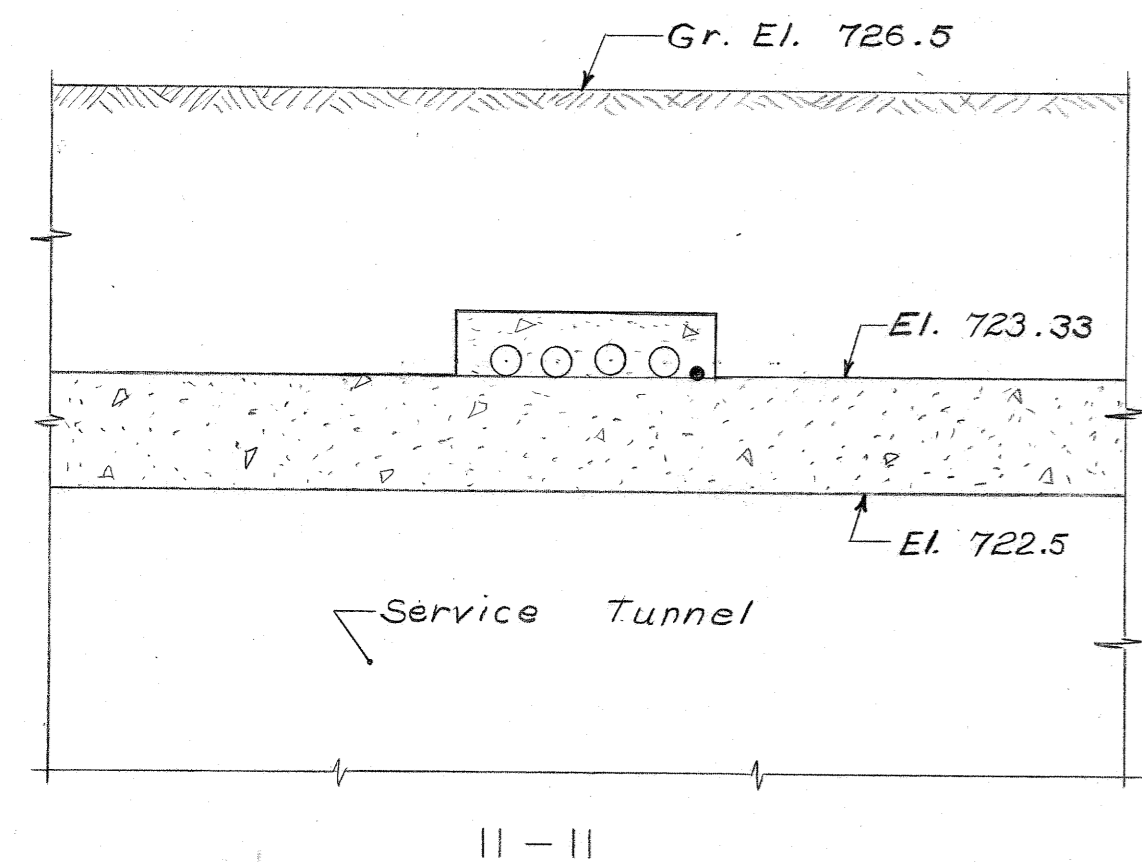
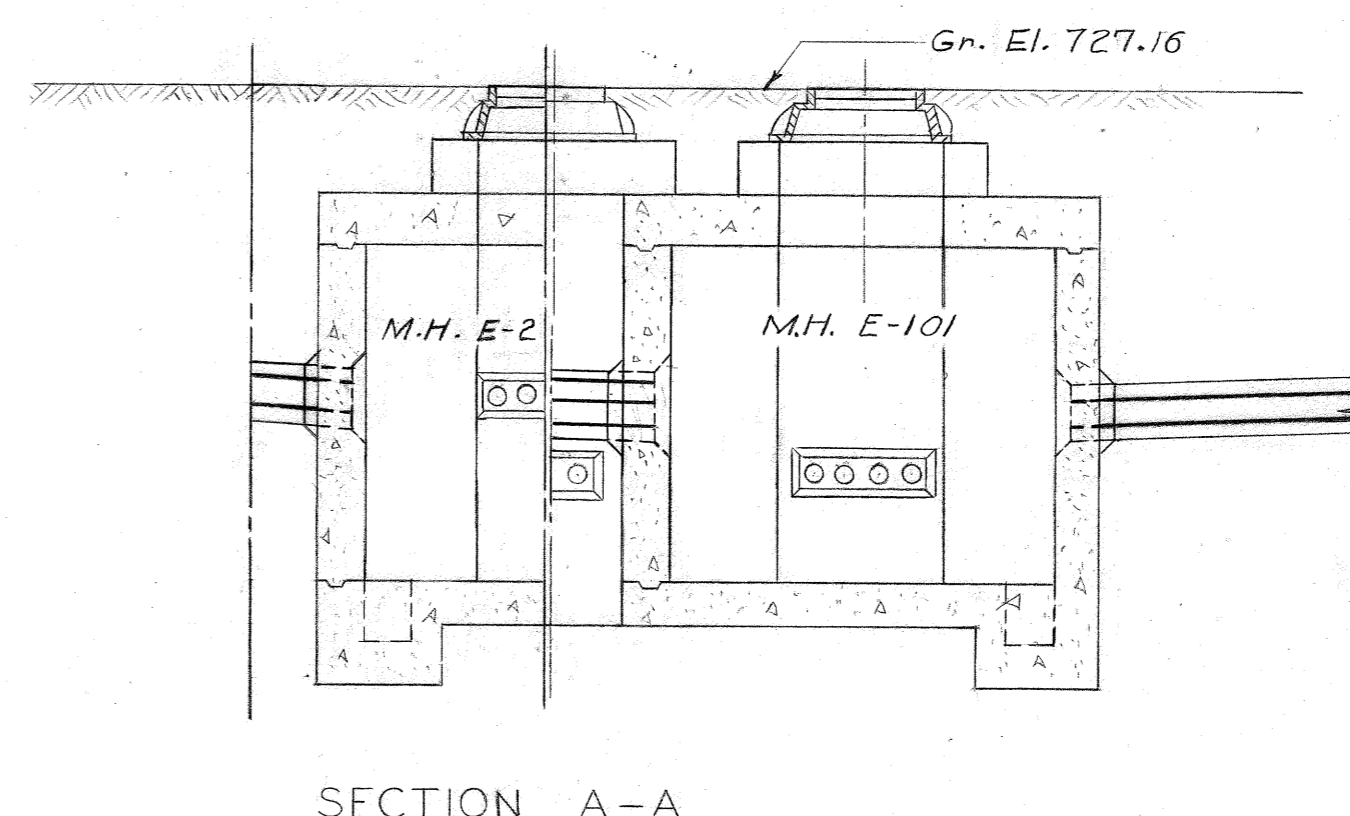
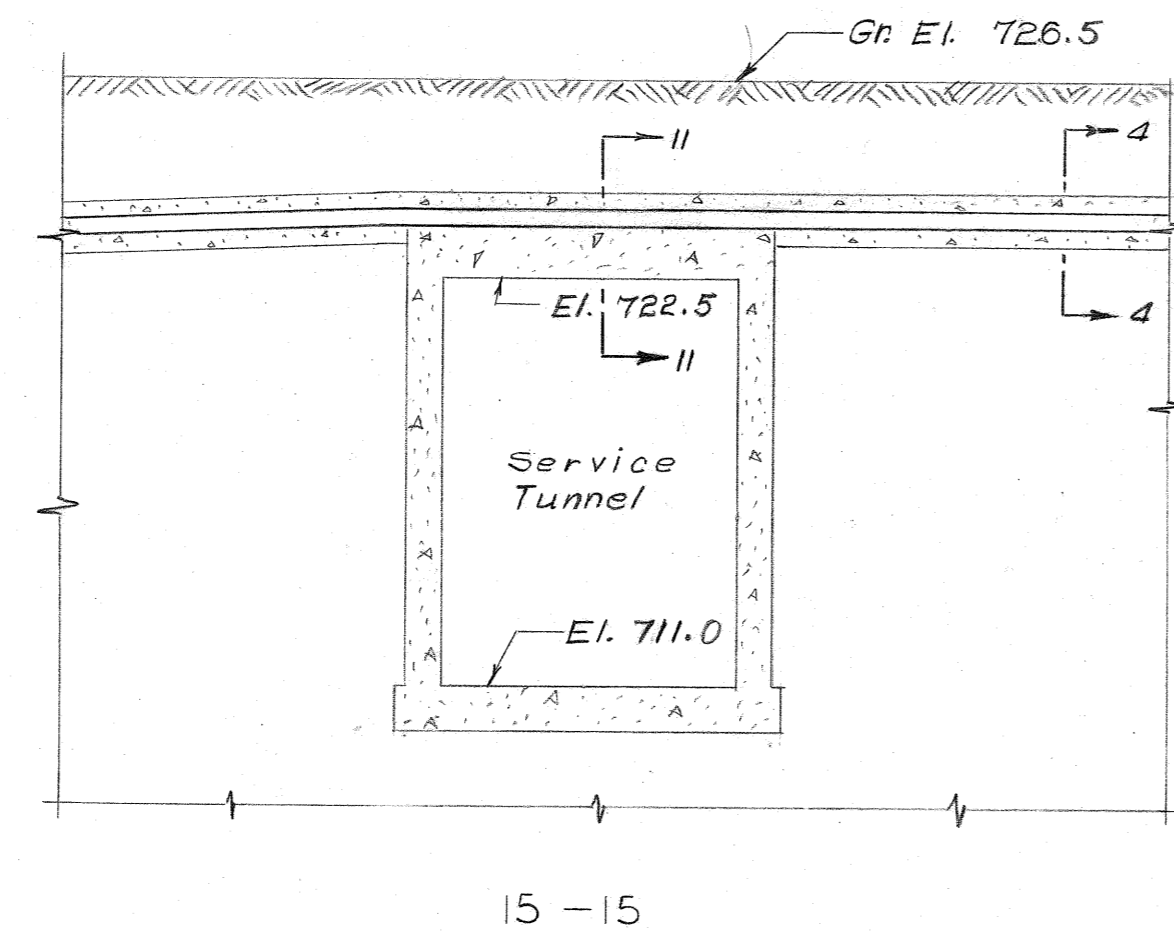
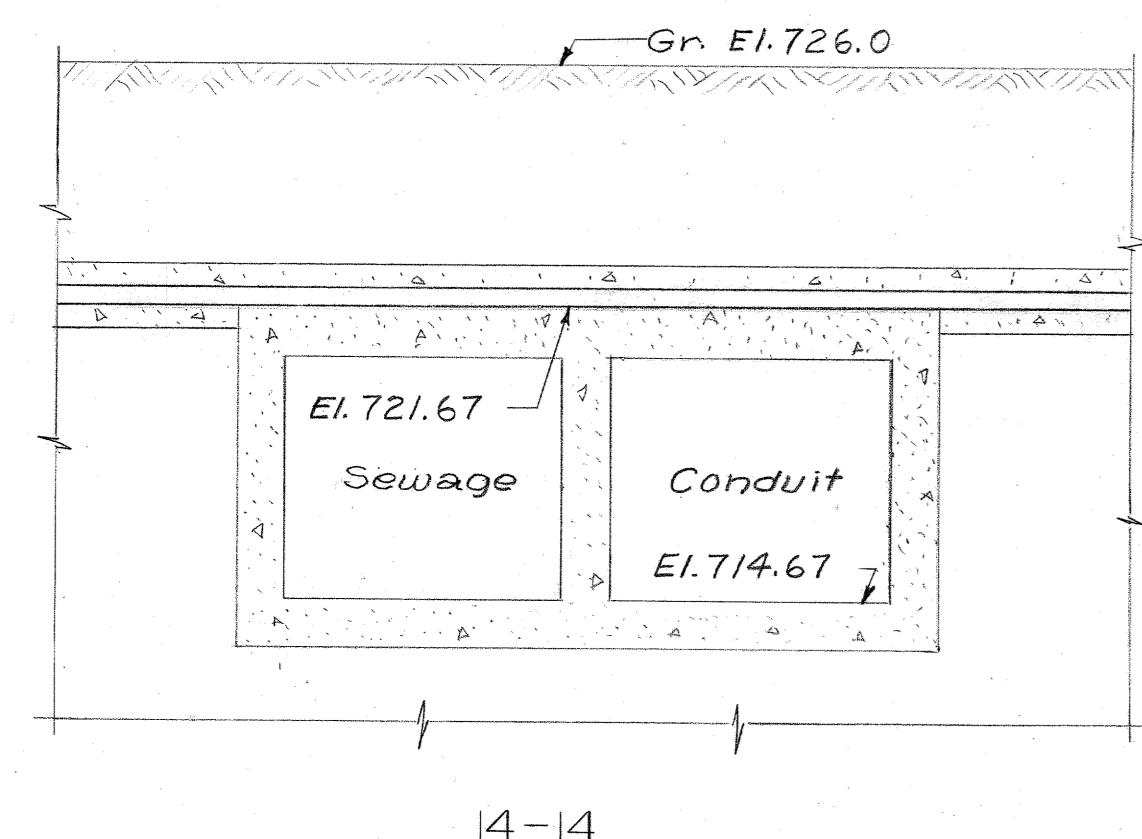
ALLEGHENY COUNTY SANITARY AUTHORITY
PITTSBURGH, PENNSYLVANIA

PITTSBURGH SEWAGE TREATMENT PLANT
ELECTRICAL
UNDERGROUND SYSTEM
AND YARD LIGHTING
SECTIONS AND DETAILS - I
SCALE, AS SHOWN 1953

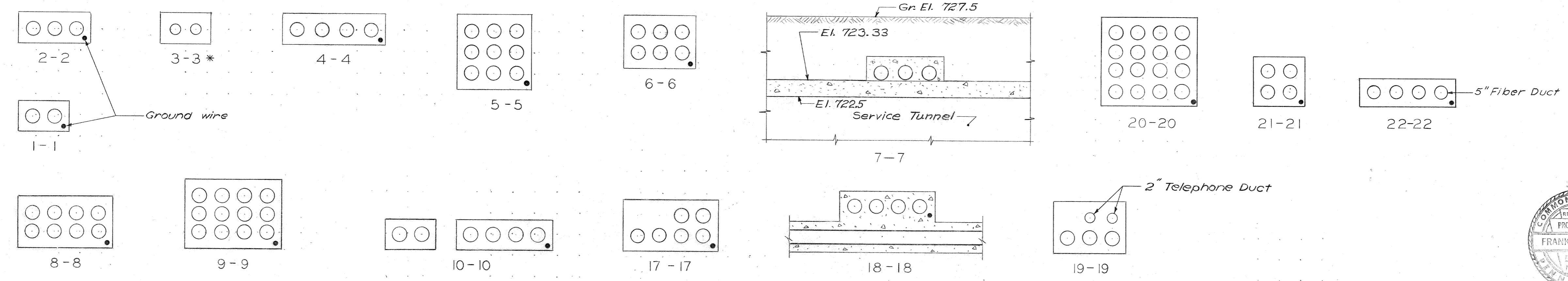
METCALF & EDDY
ENGINEERS
BOSTON, MASS.



△ 1 Conduit entrance only to manhole required if Alternate "B" Flash Drying Incineration plan is used.
△△ Not required if Alternate "B" Flash Drying Incineration plan is used.



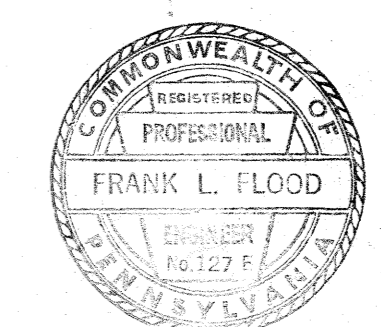
Notes:
1. All fiber ducts are 4" unless otherwise indicated.
2. For other notes and symbols see sheets no. A-102 & A-116.



* Telephone duct (Section 3-3) contains two 2" steel conduits, but has no ground wire.

DRAWN BY B.K. & W.H.V.
TRACED BY V.H.F.
CHECKED BY [Signature]

APPROVED
FOR METCALF & EDDY, ENGINEERS
Frank L. Flood
REG. PROF. ENGR. PA. NO. 127 - E
DATE 1/1/53



ALLEGHENY COUNTY SANITARY AUTHORITY
PITTSBURGH, PENNSYLVANIA

PITTSBURGH SEWAGE TREATMENT PLANT
ELECTRICAL
UNDERGROUND SYSTEM
AND YARD LIGHTING
SECTIONS AND DETAILS - 2
SCALE, NONE
1953

METCALF & EDDY
ENGINEERS
BOSTON, MASS.