

November 10, 2025

CONTRACT NO. 1797

OHIO RIVER TUNNEL

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ADDENDUM No. 6

All bidders bidding Contract No. 1797 shall read and take note of this Addendum No. 6. The Contract Documents for Contract No. 1797 – Ohio River Tunnel are hereby revised and/or clarified as stated below.

Acknowledgement of Contract No. 1797; Addendum No. 6

The Acknowledgement attached to **Addendum No. 6** is to be signed and returned immediately via email to <u>ORT.bids@alcosan.org</u> and acknowledged with Bidder's Proposal.

Michael Lichte, P.E.

Director of Regional Conveyance

ACKNOWLEDGEMENT OF

CONTRACT NO. 1797 - OHIO RIVER TUNNEL

** return via email to ORT.bids@alcosan.org **

ADDENDUM No. 6

FIRM NAME: _			
SIGNATURE: _			
TITLE:			
DATE:			

November 10, 2025 CONTRACT NO. 1797 OHIO RIVER TUNNEL ADDENDUM No. 6

ATTENTION:

BIDS DUE: 11:00 A.M., prevailing time, on Monday, January 26, 2026 DEADLINE FOR QUESTIONS: 5:00 P.M., Friday, December 19, 2025 DEADLINE FOR CORE SHED VISITS: Wednesday, December 17, 2025

This Addendum No. 006 consists of 55 total pages:

- Attachment A APPENDIX B CONTRACT DRAWINGS (1 page)
 - o Revised A48-ST-300 (Sheet 361 of 770)
- Attachment B APPENDIX B CONTRACT DRAWINGS (1 page)
 - o Revised O06A-ST-800 (Sheet 623 of 770)
- Attachment C APPENDIX B CONTRACT DRAWINGS (14 pages)
 - o Revised ORT-GN-011 (Sheet 10 of 770)
 - o Revised ORT-GN-013 (Sheet 13 of 770)
 - o Revised O27-CI-106 (Sheet 196 of 770)
 - o Revised O27-CI-110 (Sheet 200 of 770)
 - o Revised O41-CI-206 (Sheet 305 of 770)
 - o Revised O41-CI-207 (Sheet 306 of 770)
 - o Revised A48-CI-305 (Sheet 358 of 770)
 - o Revised A58-CI-406 (Sheet 392 of 770)
 - o Revised O14-CI-607 (Sheet 526 of 770)
 - o Revised O14-CI-608 (Sheet 527 of 770)
 - o Revised O14-CI-609 (Sheet 528 of 770)
 - o Revised ORT-MD-028 (Sheet 675 of 770)
 - o Revised ORT-MD-029 (Sheet 676 of 770)
 - o Revised ORT-MD-030 (Sheet 677 of 770)
- Attachment D APPENDIX B CONTRACT DRAWINGS (5 pages)
 - o **Revised O27-ST-135** (Sheet 238 of 770
 - o **Revised O41-ST-218** (Sheet 333 of 770)
 - o **Revised O41-ST-225** (Sheet 340 of 770)

- o **Revised A58-ST-417** (Sheet 418 of 770)
- o **Revised O07-ST-707** (Sheet 506 of 770)
- Attachment E APPENDIX E SUPPLEMENTAL INFORMATION (FOR REFERENCE ONLY) (3 pages)
 - Section 5.8 Drawing Sheets approved by Pittsburgh Water that are not part
 of the ORT Contract Documents: Section 5.8 fly sheet; Cover Sheet Pittsburgh Water Utility Relocations; EA-A48-CI-300, EA-A48 Civil Pad
 Plan, Early Action Ductbank Installation

ATTENTION BIDDERS

The following additions to and modifications of the Contract Documents will be included in and become part of the Contract for the Allegheny County Sanitary Authority (ALCOSAN) Ohio River Tunnel. Bidders are instructed to take the following into account in rendering any Bid for this work.

The Bidder is responsible for verifying that he/she has received and reviewed all of the pages of the Contract Documents as well as all of the pages and attachments of all addenda. The Bidder shall verify all pages with the table of contents in the Contract Documents and the first page of all Addenda. Receipt of this Addendum must be noted on the Bid Form. These items modify the portions of the documents specifically noted; all other provisions of the Contract Documents shall remain in effect.

CONTRACT NO. 1797 OHIO RIVER TUNNEL ADDENDUM NO. 6

A. QUESTIONS & ANSWERS FROM RFI'S SENT TO

ORT.bids@alcosan.org

- Q1 Section C on contract drawings ORT-ST-410 makes reference to "#8 Warped Bars Spaced Equally." Please provide details and a definition of a "Warped Bar".
- A1 The term "Warped Bars" refers to the curved reinforcement required at the inside face of the junction. This reinforcement needs to be bent to follow the curvature of the tunnel. Refer to Section A in the same sheet ORT-ST-410 for additional clarification. This clarification applies to all Contract Drawing sheets where "Warped Bars" are called out.
- Q2 Revision to Article 2, 2.05 Examination of Contract Documents and Site We ask that the Owner revise Section 2.05 EXAMINATION OF CONTRACT DOCUMENTS AND SITE Paragraph 2 from

"Before submitting a Bid, Bidders shall, at their own expense, make such investigations and tests as they may deem necessary to determine their Bid for performance of the Work is in accordance with the time, price and other terms and conditions of the Contract Documents. The Owner will not reimburse Bidder's bid/proposal costs."

TO

"Before submitting a Bid, Bidders shall, at their own expense, make such reasonable investigations and tests as they may deem necessary to determine their Bid for performance of the Work is in accordance with the time, price and other terms and conditions of the Contract Documents. The Owner will not reimburse Bidder's bid/proposal costs."

This revision represents typical contract language for this scope of work, fairly shares risk between the Bidder and the Owner, and realistically describes the prebid capabilities of the Bidder.

A2 No changes to the Bid Documents will be made. ALCOSAN does not expect the Contractor to make unreasonable investigations or otherwise act in a manner that is not reasonable.

Q3 Revision to Article 2, 2.10 Reference Information - We ask that the Owner revise Section 2.10 REFERENCE INFORMATION – Paragraph 1 – from

"All information given in the Reference Information relating to existing conditions is from the sources presently available to the Owner. All such information is furnished for the information and convenience of Bidders and is not guaranteed. All prospective Bidders agree that as a condition for Owner's review of its Bid that said information shall not be used as a basis for asserting any claims or demands against the Owner. It is understood by all prospective Bidders that they shall be responsible for determining the exact conditions prior to bidding and that they shall not be compensated for what they may feel is extra work because of their failure to discover conditions they could have discovered upon investigation."

TO

"All information given in the Reference Information relating to existing conditions is from the sources presently available to the Owner. All such information is furnished for the information and convenience of Bidders and is not guaranteed. It is understood by all prospective Bidders that they shall be responsible for reasonably determining conditions prior to bidding and that they shall not be compensated for what they may feel is extra work because of their failure to discover conditions they could have discovered upon reasonable investigation."

This revision represents typical contract language for this scope of work, fairly shares risk between the Bidder and the Owner, and realistically describes the prebid capabilities of the Bidder.

- A3 Delete "the exact". ALCOSAN does not expect the Contractor to make unreasonable investigations or otherwise act in a manner that is not reasonable. See Section B, Item 1 CHANGES TO CONTRACT DOCUMENTS for revisions.
- Q4 Revision to Article 2, 2.11 Bidders to Investigate, Paragraph A We ask that the Owner revise Section 2.11 BIDDERS TO INVESTIGATE Paragraph A from

"Bidders must satisfy themselves, by personal examination of the Job Site(s) and by such other means as may be necessary or helpful as to the actual and exact conditions existing, the character and requirements of the Work and the difficulties attendant upon its execution and analyze all laws and regulations which may affect the Work. Bidders are required to visit the Core Shed. Owner will provide Bidders reasonable access to the core shed to examine borings (at Bidder's own expense) for submission of a Bid. Schedule and access requirements for the core shed will be provided during the Pre-Bid Conference."

TO

"Bidders must satisfy themselves, by personal examination of the Job Site(s) and by such other reasonable means as may be necessary or helpful as to the actual conditions existing, the character and requirements of the Work and the difficulties attendant upon its execution and analyze all laws and regulations which may affect the Work. Bidders are required to visit the Core Shed. Owner will provide Bidders reasonable access to the core shed to examine borings (at Bidder's own expense) for submission of a Bid. Schedule and access requirements for the core shed will be provided during the Pre-Bid Conference."

This revision represents typical contract language for this scope of work, fairly shares risk between the Bidder and the Owner, and realistically describes the prebid capabilities of the Bidder.

- A4 No changes to the Bid Documents will be made. ALCOSAN does not expect the Contractor to make unreasonable investigations or otherwise act in a manner that is not reasonable.
- Q5 Revision to Article 2, 2.11 Bidders to Investigate, Paragraph B We ask that the Owner revise Section 2.11 BIDDER TO INVESTIGATE Paragraph B from

"If any discrepancies should be found between existing conditions and the Contract Documents, prospective Bidders shall report these discrepancies to the Owner for clarification prior to submitting a Bid. Failure of the Bidder to recognize Job Site conditions that affect the Work shall not be considered sufficient cause for an increase in the Contract Price."

TO

"If any discrepancies should be found between existing conditions and the Contract Documents, prospective Bidders shall report these errors, inconsistencies, discrepancies, ambiguities, or omissions to the Owner for clarification prior to submitting a Bid. The Bidder shall not be liable to the Owner for any damage resulting from any such errors, inconsistencies, discrepancies, ambiguities, or omissions in the Contract Documents unless the Bidder recognized such error, inconsistency, discrepancy, ambiguity, or omission and failed to report it, immediately, in writing, to the Owner."

This revision represents typical contract language for this scope of work, fairly shares risk between the Bidder and the Owner, and realistically describes the prebid capabilities of the Bidder.

A5 Bidders must exercise reasonable diligence with investigations and identification of discrepancies. See Section B, Item 2 - CHANGES TO CONTRACT DOCUMENTS for revisions.

Q6 Revision to Article 2, 2.11 Bidders to Investigate, Paragraph C - We ask that the Owner revise Section 2.11 BIDDER TO INVESTIGATE – Paragraph C – from

"The submission of a Bid will constitute an incontrovertible representation of Bidder that Bidder has and will comply with every term, condition and requirement of the Contract Documents and that the Contract Documents are sufficient in scope to convey all terms, conditions and requirements for performance and furnishing of the Work."

TO

"The submission of a Bid will constitute a representation that Bidder has and will comply with every term, condition and requirement of the Contract Documents and that the Contract Documents are sufficient in scope to convey all terms, conditions and requirements for performance and furnishing of the Work."

This revision represents typical contract language for this scope of work, fairly shares risk between the Bidder and the Owner, and realistically describes the prebid capabilities of the Bidder.

- A6 DELETE "incontrovertible". See Section B, Item 3 CHANGES TO CONTRACT DOCUMENTS for revisions.
- Q7 Revision to Article 3, 3.6 Responsibility for the Work We ask that the Owner revise Section 3.6 RESPONSIBILITY FOR THE WORK Paragraph 1 from

"The Contractor represents and warrants by submission of its Bid that it has thoroughly examined and has become familiar with the Contract Documents and determined the nature and location of the Work, the general and local conditions, the availability of labor, materials, supplies, and equipment, and all other matters which can in any way affect the Work under this Contract. Failure to make any examination necessary for this determination shall not release the Contractor from the obligations of this Contract or be grounds for any claim based on Differing Site Conditions."

TO

"The Contractor represents and warrants by submission of its Bid that it has thoroughly examined and has become familiar with the Contract Documents and determined the nature and location of the Work, the general and local conditions, the availability of labor, materials, supplies, and equipment, and all other matters which can in any way affect the Work under this Contract. Failure to make any reasonable examination necessary for this determination shall not release the Contractor from the obligations of this Contract or be grounds for any claim based on Differing Site Conditions."

This revision represents typical contract language for this scope of work, fairly shares risk between the Bidder and the Owner, and realistically describes the prebid capabilities of the Bidder.

- A7 No changes to the Bid Documents will be made. ALCOSAN does not expect the Contractor to make unreasonable investigations or otherwise act in a manner that is not reasonable.
- Please advise if the Owner will agree to add a provision limiting the Contractor's total liability for all claims arising under the Contract—whether in contract, tort (including negligence), or any other legal theory—to a defined percentage of the Contract Sum. This type of cap is standard in the market and ensures a fair balance of risk relative to the contract value. It also allows the Contractor to manage project risk and insurance costs appropriately.
- A8 Liability will be capped to 100% of the contract value per the specified provisions. See Section B, Item 4 CHANGES TO CONTRACT DOCUMENTS for revisions.
- Q9 Reference Vol. 1, Art. 3SC, Sec. 3.3.10, 3.19, 3.20. Please advise if the Owner will agree to revise the indemnity provisions to reflect an indemnity regime based on proportionate negligence. Specifically, we ask that the Contractor's obligation to indemnify be limited "to the extent" that any damage or loss results from the Contractor's negligent acts or omissions.

 As currently written, the provision could make the Contractor solely liable for damages resulting from the concurrent negligence of the Owner or its representatives. Aligning the indemnity obligation with the Contractor's actual share of fault is consistent with industry practice and provides a fairer allocation of risk between the parties.
- A9 No changes to the Bid Documents will be made. The language of Article 3, Section 3.10 limits the indemnity obligation to those liabilities arising out of Contractor's Work on the Project "resulting in any way from any act or commission or omission of the Contractor, any subcontractor of the Contractor of any tier, or any person or organization directly or indirectly employed or engaged by any of them to perform or furnish any of the Work or anyone for whose acts any of them may be liable." The sole negligence provision is an exception to the indemnification obligation whereby Contractor is not required to indemnify the Indemnified Parties for damages arising solely from the negligence of the Indemnified Parties.

- Q10 Reference Vol. 1, Art. 3SC, Sec. 3.51
 - The Contract places the entire risk of loss or damage to materials delivered at the job site on the Contractor until final acceptance by the Owner. As currently written, this obligation is not limited to the Contractor's negligence or failure to perform contractual duties, effectively creating unlimited liability for damage to equipment, including damages arising from causes outside of the Contractor's control. Please advise if the Owner will agree to modify the clause so that the Contractor is responsible only to the extent that loss or damage results from its own negligence or contractual breach. This change would align the risk allocation with standard industry practice, while Builder's Risk Insurance will continue to protect both parties from covered losses.
- A10 No changes to the Bid Documents will be made. Article 3, Section 3.51 requires Contractor to maintain the Work site during construction until final acceptance. Builder's Risk Insurance covers any damages or loss from factors outside of Contractor's control.
- Q11 Reference Vol. 1, Art 3.34, Sec. 3.34A.1 and 3.34D
 The Contract limits compensation for delay damages to delays arising from the negligence of the Owner. This is unduly restrictive and will require substantial contingencies if, for example, the Contractor is barred from claiming extended indirect costs arising from differing site conditions, change orders, or other Owner interference. Please advise if Owner will agree to the below suggested revisions to Volume 1, Article 3.34:
 - Revise Vol. 1, Sec. 3.34A.1 to: "1. Acts, omissions, negligence, or interference by the Owner or any person engaged or employed by the Owner."
 - Revise Vol. 1, Sec. 3.34D to: "The Contractor agrees that it shall have no claim against the Owner for an increase in the Contract Sum or for any other monetary damages resulting from delays, disruptions, or interference on account of or resulting from conditions set forth in Subparagraph 3.34A except only for claims for delays caused by the Owner, as set forth in Subparagraphs 3.34.A.1, 3.34.A.2, 3.34.A.4, 3.34.A.7, and/or 3.34.8.
- A11 Contractor may submit change requests per Contract per Article 3, Section 3.32. Article 3, Section 3.34 is specific to delays and extensions of time. Article 3, Section 3.34 A.2 and A.8 will be added to paragraph D of Article 3SC. See Section B, Item 5 CHANGES TO CONTRACT DOCUMENTS for revisions.

- Reference Vol. 1, Art. 3SC, Sec. 3.60B. Please advise if the Owner will agree to revise the Termination for Convenience provision. The current notice period (7 days) for the Contractor to notify the Owner of cost impacts is impractical and does not allow enough time for the Contractor to fully determine cost impacts. Please advise if the Owner can agree to accept termination for convenience proposal within 60 days of termination. The Contract appears to require the Contractor to continue performing obligations even after termination, which is commercially impractical. Please advise if the Owner can agree to removal of any obligation to perform and obligations after the effective date of a termination for convenience, which by its nature cannot be partial.
- A12 No changes to the Bid Documents will be made. Section 3.60B in Article 3 merely requires the Contractor to notify ALCOSAN in writing "of the effect" that a termination for convenience order will have on the Contractor's Work. This does not require a full determination of "cost impacts" or submission of a "proposal" of any sort within the seven-day window. Regarding continuation of work after termination, it is possible to terminate a contract in part, but not in full if a portion of the project is descoped. This is why the obligation to require the Contractor to keep working exists.
- Rights and Duties of Contractor, Sec. 3.10. Please add a reciprocal indemnity provision requiring the Owner to indemnify the Contractor, its subcontractors, and employees to the extent that any losses are caused by the negligence of the Owner, its agents (including the Construction Manager and Consulting Engineer), or its own forces. Just as the Contractor is responsible for its own negligence, the Owner should likewise be responsible for its negligence and that of those acting under its direction.
- A13 No changes to the Bid Documents will be made.
- Rights and Duties of Contractor, Sec. 3.55. Would you agree to revise the final payment clause in a more equitable manner so that acceptance of final payment does not waive unresolved claims previously submitted in writing by the Contractor or the Owner's contractual obligations that should survive project completion, such as indemnification?
- A14 No changes to the Bid Documents will be made.
- Rights and Duties of Contractor, Sec. 3.60. Would you agree to revise the termination provisions to apply only to a "substantial or persistent breach of a material provision" and require the Contractor to commence corrective efforts within the 7-day notice period rather than fully remedy the issue?
- A15 No changes to the Bid Documents will be made. All that is required to avoid termination is that the Contractor make acceptable progress toward remedying the defect/deficiency during the seven-day window, not a full cure.

We seek clarification regarding the duration of the Builder's Risk coverage required under Article 3 (Insurance). As currently written, the clause indicates that the Contractor shall maintain Builder's Risk insurance "until final payment is made unless otherwise agreed to in writing by the Owner."

In the insurance market, Builder's Risk policies are generally available only through Substantial Completion of the Work, with coverage transition typically occurring at that point to permanent property insurance carried by the Owner. Continuing Builder's Risk until Final Payment or Final Acceptance may not be commercially available.

Could you please confirm whether the Owner's intent is:

- To require Builder's Risk coverage only through Substantial Completion (with appropriate evidence of coverage transition at that time), or
- To extend the requirement through Final Payment/Final Acceptance, and if so, whether the Contract may be amended to stipulate that such extension will only apply if commercially available in the insurance market.

Your clarification will help us ensure compliance while aligning with insurance industry practice.

- A16 Per Addendum #2, Answer #5, Builders Risk insurance is for the term of the contract only through Final Completion.
- Q17 Reference Vol. 1, Art. 3SC, Sec. 3.60A
 We note that the current clause allows the Owner to terminate the Contract "for any cause whatsoever," which exposes the Contractor to arbitrary termination. We request confirmation whether the Owner would be open to revising this provision to limit termination for cause to instances of material breach. This would align with common practice and ensure a fair balance of rights.
- A17 No changes to the Bid Documents will be made.
- Q18 With the latest bid opening date pushed back, does Alcosan plan to hold any additional site tours?
- A18 No additional site tours are planned however bidders are free to visit the sites on their own.

Q19 Gate Control Building Pile Installation - Drawing sheets 262 & 462 of 770 include a pile schedule for the two Gate Control Buildings at sites O27 & A58. Piles 1 through 18 on each pile schedule include an asterisk on the pile callout. This asterisk is used to indicate pile shall be driven a minimum of 5 feet into rock layer.

Specification Section 31 62 16 for Steel H Piles, Paragraph 3.2.A tells Contractors that impact and vibratory driving for steel H-pile installation is prohibited.

If we cannot vibrate or drive the piles, will a drilled 5' rock socket without any impact or vibration be acceptable?

- A19 The term "driven" found within Sheets O27-ST-149 and A58-ST-446's Pile Loading notes means extending pile into rock within the drilled casing. It does not mean the method of pile installation. Pile installation methods shall be per Specification Section 31 62 16.
- Q20 Manhole A-58-00 Location Drawing sheet A58-CI-400 lists ALCOSAN manhole A-58-00 is located at the A58 site. There is no manhole with this callout present on the A58 plans. Please indicate where this manhole can be found.
- A20 Revised Drawing A58-CI-400 provided as Addendum No. 5 Attachment B.
- Q21 Prebid Schedule Due to the complexity of the project, limited work area, and high degree of prime contractor coordination there is concern that the specified Contract Time is not sufficient for a project of this magnitude. Please provide an Owner/Engineer schedule confirming that the work can be completed within the specified contract time.
- A21 The Owner/Engineer schedule will not be provided.
- Q22 A58 Regulator No. 02 Drawing sheets A58-ST-403 (note 4) & A58-ST-409 (sequence step 1) reference the determination of structural repairs of the existing regulator to be determined by the Contractor's Professional Engineer. If the Contractor's Professional Engineer deems repairs necessary, how are Contractor's reimbursed for this repair cost?
- Additional scope and repairs will be administered through the change request process per Contract per Article 3, Section 3.32.
- Q23 A58 Regulator No. 02 Suggested sequence step number 4 on sheet A58-ST-409 dictates that secant piles can only be installed during dry weather conditions. What is the purpose of this restriction?
- A23 Secants are located adjacent to the culvert. Installation during wet weather should be avoided to prevent structural damage during heavy culvert flow.

- Q24 A58-OF Tremie Seal Reference drawing sheet A58-ST-414. When the existing Outfall structure was constructed, they installed a tremie seal to cut off the water. The cofferbox for construction of the new outfall does not show a tremie seal from the old sheets out to the new sheets, instead it details a 6" aggregate base with a six-inch mud slab. Wouldn't a tremie seal be required here as well to seal off the water?
- A24 Contract documents do not include a tremie seal as this is a Contractor means and methods preference. Any tremie seal to be included by the contractor shall be fully designed to ensure stability of the excavation. These can be submitted post-award of the Contract for consideration, but bidders should bid the plans and specifications as received.
- Q25 Drilling Through Existing 10' x 12' Culvert at A58 Reference Drawing Sheet A58-ST-411. Can the Contractor core holes through the top and bottom slabs of the 12'W x 10'H existing box culvert under Voeghtly Street to perform grouting, SOE, and underpinning?
- No, due to the active use of the culvert for existing flow during construction. The suggested approach can be submitted post-award of the Contract for ALCOSAN's consideration, but bidders should bid the plans and specifications as received.
- We have reviewed the provisions of Section 01 22 00 Measurement and Payment which state that the Mobilization and Demobilization Bid Item shall not exceed 2.5% of the Contract Price, with payment milestones tied to NTP, Substantial Completion, and Final Completion.

We would like to respectfully request clarification on whether ALCOSAN would consider revising this cap from 2.5% to 5% of the Contract Price, in line with common industry practice for large-scale tunneling projects.

While we note that Insurance, Bond and TBM procurement/assembly are covered under separate bid items, the Mobilization and Demobilization scope still entails substantial upfront costs, including:

- Establishing and equipping multiple shaft sites and support facilities;
- Mobilizing specialized equipment, plants, and systems;
- Utilities, temporary works, and security measures;
- Final demobilization and restoration of all project sites.

Maintaining the current 2.5% cap would result in a higher initial financial exposure for the Contractor. This, in turn, would increase financing and risk-related costs that will ultimately be reflected in the bid price. By adjusting the cap to 5%, ALCOSAN would help reduce the Contractor's financial exposure, thereby lowering the overall project cost risk for the Owner.

- We would appreciate ALCOSAN's confirmation whether such an adjustment is possible.
- A26 The cap will be changed to 5%. See Section B, Item 6 CHANGES TO CONTRACT DOCUMENTS for revisions.
- Q27 Specification 31 62 16, 1.8 Pile Testing, Paragraph A.1 requires a minimum of one pile to be tested for axial compressive capacity static load test by ASTM D1143 for each Outfall and each Manhole. Please reconsider this requirement at Outfall and Manhole locations given the space constraints caused by internal bracing for support of excavation.
- A27 Pile testing requirements to remain and priced as such. Actual testing arrangement during construction to be determined on a case-by-case basis.
- Q28 Drawings A58-ST-446, O27-ST-149. Notes on these two pages seem to indicate that piling for Control Buildings is driven. Please confirm this. If this is the case, is Dynamic Pile Testing more appropriate for this application?
- A28 Refer to A19 Response.
- Q29 Specification 31 62 16, 1.8 Pile Testing. Please confirm that all pile tests are performed on production piles (i.e. no sacrificial piles are required).
- All pile tests shall be priced for production piles. Actual testing arrangement during construction to be determined on a case-by-case basis per Specification 31 62 16 part 1.8.
- Q30 Specification 31 62 16 Section 3.2.A states that "Install steel H-piles by pre-drilling to their proposed tip elevations. Impact and vibratory driving for steel H-pile installation is prohibited" however, Drawing A58-ST-446 states " indicates pile shall be driven a minimum of 5 feet into rock layer." Please confirm that rock socketed H-piles are to be pre-drilled and non-rock socketed H-piles are to be driven
- A30 Refer to A19 Response.
- Q31 Please confirm ALCOSAN will accept DBE firms certified by PAUCP and that work awarded to such firms will be counted toward the M/WBE goal on the contract.
- A31 Confirmed PAUCP certified firms will be counted toward M/WBE goals.
- Q32 The 10% M/WBE participation goal mandated is unusually high for the underground industry and will be extremely challenging to meet. The nature of tunneling requires a higher self-perform percentage than is standard for other industries. We suggest a more typical value of 5%.

- A32 The stated M/WBE participation percentages are goals. Bidders are encouraged to make every reasonable effort to engage M/WBE firms in areas where services and materials can be provided.
- As we are not able to predict what sort of M/WBE work may be included in the Allowance scopes, and there are no M/WBE manufacturers of the specialty underground equipment (including TBM, separation plant, underground prime movers, permissible excavation equipment, etc.) needed for the project we suggest excluding both values from the M/WBE participation calculations. This would be consistent with other contracts in the underground industry.
- A33 See A32 response.
- Clause 3.1.H in specification 01 35 26 appears to call for all shaft and tunnel equipment to comply with 30 CFR Part 36 and for the Contractor to submit proof of MSHA certification for each piece of equipment thus employed. This requirement will significantly impact availability of equipment and will delay the start of the underground works due to lead times of MSHA certified permissible equipment. Please confirm clause 3.5.F.2 in specification 31 71 00 can be applied to equipment used for all facets of shaft and tunnel work allowing the contractor to prepare equipment that meets the applicable MSHA standards without the need to garner MSHA approval.
- A34 Confirmed.
- Q35 Please confirm excavation for the near surface facilities does not have to be performed with permissible equipment per clause 3.1.H in specification 01 35 26.
- A35 Equipment used for construction of Near Surface Facilities do not have to meet the requirements of MSHA, unless the work falls under the guidelines of MSHA as determined by the Contractor.
- Q36 Please consider delaying the bid due date to Thursday January 29, 2026 to permit estimate closeout activities to be performed on traditional work days.
- A36 The bid due date will not be changed.
- Q37 At site AS1, please confirm the Contractor can close S. Canal St. between Chestnut St. and the dead end west of Warfield St. to public traffic, fence in and utilize the resulting area as part of the work site.
- A37 S. Canal Street between Chestnut Street and the western limits of the S. Canal Street right of way will be closed to traffic. The ORT contractor will be able to use this S. Canal right of way recognizing that the Bid Documents define access needed by Owner and others during construction.
- Q38 At site A48 for the bypass pumping, it states it can be pumped to MH008F002 and this manhole can be found on A48-CI-300. It is not shown on this drawing. Please provide the location for this manhole.

- A38 Note 4 on Contract Drawing A48-ST-300 has been updated. See Section B, Item 8 CHANGES TO CONTRACT DOCUMENTS for revisions.
- Q39 Specification 31 62 16 notes that it covers Control Buildings, Outfalls, and other structures. Subsection 3.2.A states: "Install steel H-piles by pre-drilling to their proposed tip elevations. Impact and vibratory driving for steel H-pile installation is prohibited." The Contract drawings clearly show the pre-drilled holes for the Outfall at A58. However, no drilled holes are shown at either Control Building at A58 or O27. Moreover, Inspection Notes on Tables 1705.7 at both locations discuss recording hammer type and blows per foot. Are the H-Piles at the Control Buildings to be installed by impact driving?
- A39 Method of installation per Specification 31 62 16. Apply Table 1705.7 as applicable to the installation methods defined by contract documents.
- Q40 Section 01 11 00 'SUMMARY OF WORK" paragraph 1.1.D.7.b states "Shafts ORT-AS1 and ORT-O27-DS will consist of reinforced slurry walls (or diaphragm walls) in overburden strata...".

Section 31 75 00 "Shaft Construction" paragraph 1.1.B.1 states that "The Work specified in this Section shall include, but not be limited to: 1. Providing reinforced slurry or secant pile walls as shown on the Contract Drawings and as specified in Section 31 56 00 – Slurry Wall and Section 31 57 00– Secant Pile Wall, respectively, for temporary support of the shafts in soil".

Addendum 1 dated July 30, 2025, questions and answers states:

"Q2 What is the reason for Slurry wall designed locations as opposed to Secant pile wall?

A2 The main reason for the slurry wall design is the size of the shaft."

Please confirm that Slurry Walls is the only prescribed technical option to bid for Shafts ORT-AS1 and ORT-O27-DS.

- A40 For all shafts, secant piles and slurry walls are interchangeable as stated in the GBR, as the Contractor's option. The Contract Drawings provide AS1 and O27 shafts using slurry walls and all other shafts using secant piles as base designs. The Bidder has the option to use either method provided all design requirements are met as specified in the applicable Specification Sections. But no other methods than slurry walls or secant piles are permitted as stated in the Contract Documents.
- Q41 Section 01 11 00 'SUMMARY OF WORK" paragraph 1.1.D.7.c states that "The remaining shafts..." [Other than Shafts ORT-AS1 and ORT-O27-DS] "will consist of secant pile walls in overburden strata...".

 Section 31 75 00 "Shaft Construction" paragraph 1.1.B.1 states that "The Work specified in this Section shall include, but not be limited to: 1. Providing reinforced slurry or secant pile walls as shown on the Contract Drawings and as specified in Section 31 56 00 Slurry Wall and Section 31 57 00– Secant Pile Wall,

respectively, for temporary support of the shafts in soil".

Addendum 1 dated July 30, 2025, questions and answers states:

"Q2 What is the reason for Slurry wall designed locations as opposed to Secant pile wall?

A2 The main reason for the slurry wall design is the size of the shaft."

Please confirm that Secant Piles is the only prescribed technical option to bid for shafts other than ORT-AS1 and ORT-O27-DS.

- A41 For all shafts, secant piles and slurry walls are interchangeable as stated in the GBR, as the Contractor's option. The Contract Drawings provide AS1 and O27 shafts using slurry walls and all other shafts using secant piles as base designs. The Bidder has the option to use either method provided all design requirements are met as specified in the applicable Specification Sections. But no other methods than slurry walls or secant piles are permitted as stated in the Contract Documents.
- Q42 Could you please provide a Conceptual Construction Project Schedule?
- A42 The Owner/Engineer schedule will not be provided.
- Q43 Drawings for the owner provided electrical equipment and pads from Contract 1794 included in Appendix E appear to indicate a different for the 1MW transformer to be installed at site AS1 than what is shown in the Contract 1797 drawings. Please confirm which drawing set governs.
- A43 The location of the 1MW transformer shown in set 1797 is correct; see Contract Drawing AS1-EL-500 (sheet 513 of 770).
- Q44 31 75 00 1.7.I.1 : Is the intent of the statement "shall provide concrete mix additives as specified in Section 03 30 00" that all shaft lining concrete requires an integral waterproofing admixture as described in 03 30 00 2.3.L Integral Waterproofing?
- Yes, but the use of integral waterproofing admixture does not replace other additives as required by Section 03 30 00. It shall be used in conjunction with other additives as specified.
- Q45 31 75 00: Please clarify if the Leakage Criteria for Permanent Shaft Linings (1.7.I) only applies to the lining/wall as defined in 1.2.D or if it is intended to apply to all cast-in-place concrete that would be a leakage path into the shafts such as top slabs, invert slabs, and tunnel collars.
- A45 This requirement applies to leakage through the shaft final lining which includes the wall, the tunnel/shaft collars (or junctions), and the base slab. Any other sources of leakage alluded to in this RFI shall be stopped as required by the relevant Sections.

- Q46 Please confirm that no integral waterproofing admixture is required for cast-inplace tunnel liners and junctions.
- A46 Integral waterproofing admixture is required refer to Section 31 71 01 Non-TBM Tunnel Excavation and Section 03 30 00 Cast- in- Place Concrete for all requirements, including waterproofing admixture requirement of cast-in-place concrete.
- Q47 Bypass Pumping 006A-CI-800 Note 4 on drawing sheet 006A-ST-800 directs the Contractor to pump around the interior shotcrete pipe support from Manhole MROCK0340A to MROCK0289 shown on drawing sheet 006A-CI-800. To accomplish this, the pump lines will need to cross Shingiss street and then across the right lane of Ella street outside of the LOD/LOC. Is it Alcosan's intention to have the Contractor trench across Shingiss street and Ella street under the pavement to install the pump around lines?
- A47 Note 4 on Contract Drawing O06A-ST-800 has been updated. See Section B, Item 8 CHANGES TO CONTRACT DOCUMENTS for revisions.
- Q48 Bypass Pumping O06A-CI-800 Note 4 on drawing sheet O06A-ST-800 directs the Contractor to pump around the interior shotcrete pipe support from Manhole MROCKMH0340A to MROCKMH0289 shown on drawing sheet O06A-CI-800. To accomplish this, the pump lines will need to cross Shingiss street and then across the right lane of Ella street outside of the LOD/LOC. Will Alcosan obtain the permission from the appropriate authorities to extend the LOC/LOD lines to accomplish the trenching to reach manhole MROCKMH0289?
- A48 Please refer to the above response (A47).
- Q49 US DOT Disadvantaged Business Enterprise Firm Decertification With the US DOT action on October 3, 2025, decertifying DBE Subcontractors and Suppliers, how are Contractors to meet the DEB goal on the project?
- A49 US DOT is not applicable to this project.
- Q50 Bid Evaluation & Award Article 1 requires the two lowest bidders to submit a Bidder's Execution Statement (Schedule D) within five (5) working days. However, Section 2.02 of Article 2 states that the award will be made to the lowest responsive and responsible bidder. Please clarify the Owner's intent regarding how the Execution Statement will be evaluated and how it will factor into the overall bid evaluation relative to bid price.
- A50 The Bidder's Execution Statement will not factor into the overall bid evaluation relative to price. It will only factor into the bid as being responsive/nonresponsive.

- Management, handling, and disposal of excavated materials Section 31 23 00 specifies the requirements for the management, handling, storage, characterization, transportation, and disposal of all excavated materials. Based on these requirements, our understanding is that all excavated materials are subject to sampling and characterization to determine the appropriate disposal site—whether for clean, regulated, or hazardous materials. In other words, all excavated materials must be temporarily stored until sampling and testing are completed prior to disposal. Please confirm if this understanding is correct.
- A51 Yes. See Appendix A, Specification Section 01 31 00 Permits and Approvals, Attachment 1: NPDES Individual Permit for Discharges of Stormwater Associated with Construction Activities issued by Pennsylvania Department of Environmental Protection (PADEP). See also Appendix E Supplemental Information (For Reference Only), Section 8 ORT Material Management Plan Issued for Permit, which the Contractor must complete for each near surface site, including tunnel shafts, and submit to ALCOSAN and PADEP. See also Addendum 2, Attachment A.
- Management, handling, and disposal of excavated materials Section 31 23 00 specifies the requirements for the management, handling, storage, characterization, transportation, and disposal of all excavated materials. Based on these requirements, our understanding is that all excavated materials are subject to sampling and characterization to determine the appropriate disposal site—whether for clean, regulated, or hazardous materials. In other words, all excavated materials must be temporarily stored until sampling and testing are completed prior to disposal. Can the Owner specify or limit the locations or tunnel stations where such sampling and testing are required?
- A52 See Appendix A, Specification Section 01 31 00 Permits and Approvals, Attachment 1: NPDES Individual Permit for Discharges of Stormwater Associated with Construction Activities issued by PADEP. See also Appendix E Supplemental Information (For Reference Only), Section 8 ORT Material Management Plan Issued for Permit, which the contractor must complete for each near surface site, including tunnel shafts, and submit to ALCOSAN and PADEP. See also Addendum 2, Attachment A.
- Escrow Bid Document Submission Timeframe Article 2, paragraph 2.33 for the Escrow Bid Documents instructs the two apparent low bidders to submit one copy of all documentary information generated in preparation of Bid prices for this project to the Escrow Agent within three working days after opening of the bids. Please change this language to allow submission of the escrow bid documents within five working days of bid opening for the two apparent lowest bidders. Should this change be adopted, bidders will still be held to the specifications and can have

their bid be found unresponsive if not submitted within five working days of bid opening.

- A53 Five (5) business days is acceptable. See Section B, Item 7 CHANGES TO CONTRACT DOCUMENTS for revisions.
- Q54 Bid Date -Given the current situation with the WWPS contract procurement, do we expect the bid date for the ORT project to be extended further?
- A54 The bid due date will not be changed.
- Article 3, Sec 3.10-INDEMNIFICATION -Q/A No. 1 in Addendum 2 Following your response to Q1 in Addendum 2 regarding Article 3-3.10 "Indemnification," we still have concerns that the clause does not set reasonable limitations on the Contractor's liabilities. Specifically: 1. The Contractor remains liable even if the Owner or other protected parties are partially negligent (partly at fault). The only exception provided is when the issue is 100% caused by the Owner's or other protected parties' negligence. We believe this is not fair or reasonable. 2. The clause further states that "the foregoing obligations shall survive the completion of the Work and/or termination of the Contract." This implies that the indemnification obligations continue indefinitely, even after the work is completed or the contract is terminated, creating open-ended liabilities for the Contractor. This is also not fair or reasonable. We therefore respectfully request that this clause be revised to reflect standard industry practice and to include reasonable limitations on the Contractor's liabilities.
- The language of Section 3.10 limits the indemnity obligation to those liabilities arising out of Contractor's Work on the Project "resulting in any way from any act or commission or omission of the Contractor, any subcontractor of the Contractor of any tier, or any person or organization directly or indirectly employed or engaged by any of them to perform or furnish any of the Work or anyone for whose acts any of them may be liable." The sole negligence provision is an exception to the indemnification obligation whereby Contractor is not required to indemnify the Indemnified Parties for damages arising solely from the negligence of the Indemnified Parties.
- Q56 Article 3, Sec 3.23-AUTHORITY OF THE OWNER Q/A No. 3 in Addendum 2 Following your response to Q3 in Addendum 2 regarding Article 3, Section 3.23 Authority of the Owner, your reply states: "Supplemental Contract Conditions, Sec. 3.56 Disputes and Claims provides a mechanism by which the Contractor may dispute an Owner decision. That Section provides both the Contractor and Owner the right to refer disputes to the DRB, provided the conditions precedent to doing so have been satisfied." However, Section 3.3 of the Supplemental Contract Conditions

states that the DRB report is nonbinding. This creates a conflict: the Contractor cannot reasonably rely on a nonbinding DRB resolution process when Section 3.23 effectively negates its purpose by stating: "The Owner, either directly or through its agents, shall be the sole judge of the intent and meaning of the Contract Documents and its decisions thereon and its interpretations thereof will be final, conclusive, and binding on all parties." This language grants unilateral authority to the Owner, undermining the DRB process and eliminating any meaningful dispute resolution mechanism. We respectfully request that Section 3.23 be deleted or revised to align with the dispute resolution provisions and to ensure a fair and balanced process for both parties.

- A56 Supplemental Section 3.56 outlines escalating dispute resolution steps that provide opportunities for resolution prior to the dispute being decided by one or more independent third parties, and culminate in a fair and binding dispute resolution process through arbitration or litigation.
- Q57 DWG O41-CI-202 Do Not Disturb Paint Striping Sheets 041-CI-202 & ORT-ES-200 include hatching with a flag reading "'do not disturb' paint striping. No disturbance permitted in this area." The location of the hatching conflicts with the Trackout Control Mat and Belmont Street site entrance. Please define the restrictions associated with the "do not disturb" hatching.
- A57 "Do Not Disturb" limits are shown where excavation is to be avoided.
 Installation of Trackout Control Mat (TCM) as shown on E&SC drawings
 ORT-ES-902 allows for TCM installation on the ground surface in this area.
- Retainage Article 3, Section 3.35 and 3.37 Addendum 5, Q/A 20 revised the language to state: "Retainage shall be 6% until 50% of the contract is completed. When the contract is 50% completed, retainage shall be reduced to 3%. After Substantial Completion, retainage will be calculated at 1.5 times the value of incomplete work and punch list items." Could you please clarify the meaning of "retainage will be calculated at 1.5 times the value of incomplete work"? For example, if the value of site restoration work remaining is \$10 million, would the Owner withhold \$15 million as retainage? Please confirm the intended application of this clause.
- A58 Retainage after Substantial Completion shall be per Title 62 of Pennsylvania's Consolidated Statutes as specified in the Contract.

B. CHANGES TO CONTRACT DOCUMENTS

** changes are denoted in red text

1. Article 2.10 – REFERENCE INFORMATION (Article 2, page 2-6)

CHANGE paragraph 1, 4th sentence as follows:

It is understood by all prospective Bidders that they shall be responsible for determining the exact conditions prior to bidding and that they shall not be compensated for what they may feel is extra work because of their failure to discover conditions they could have discovered upon investigation."

2. Article 2.11 – BIDDERS TO INVESTIGATE (Article 2, page 2-7)

CHANGE 2.11 B. as follows (CHANGES ARE DENOTED IN RED):

<u>Bidders must exercise reasonable diligence with investigations and identification of discrepancies.</u> If any discrepancies should be found between existing conditions and the Contract Documents, prospective Bidders shall report these <u>errors</u>, <u>inconsistencies</u>, discrepancies, <u>ambiguities</u>, or <u>omissions</u> to the Owner for clarification prior to submitting a Bid.

3. Article 2.11 – BIDDERS TO INVESTIGATE (Article 2, page 2-7)

CHANGE 2.11 C. as follows (CHANGES ARE DENOTED IN RED):

The submission of a Bid will constitute a an incontrovertible representation of Bidder that Bidder has and will comply with every term, condition and requirement of the Contract Documents and that the Contract Documents are sufficient in scope to convey all terms, conditions and requirements for performance and furnishing of the Work.

4. CONTRACT DOCUMENTS, Article 3SC – ADD Article 3.61 LIMITATION OF LIABILITY

ADD the following in its entirety at the end of Article 3.61, 1st paragraph on page 3-69 (CHANGES ARE DENOTED IN RED):

The Contractor's total liability for all claims will be limited to 100% of the Contract value, but will not apply to any amounts expressly payable pursuant to this Contract or any amounts entitled to be set-off, or Contractor's liability, to the extent that:

- A. Such losses have been covered by insurance pursuant to this Contract.
- B. <u>Such losses are covered by the proceeds of insurance carried by the Contractor regardless of whether such policies are required pursuant to this Contract.</u>
- C. <u>Under any indemnity pursuant to this Contract where such indemnity relates to claims asserted and/or losses suffered by any third party including those listed as indemnified parties in Article 3SC, Section 3.10, Indemnification.</u>
- D. <u>Loss arising out of fraud, willful misconduct, recklessness, criminal conduct, bad</u> faith or gross negligence.
- 5. CONTRACT DOCUMENTS, Article 3SC REVISE Article 3.34 D. DELAYS AND EXTENSIONS OF TIME

DELETE the 1st sentence in Article 3.34 D. – DELAYS AND EXTENSIONS OF TIME (page 3-41) and REPLACE as follows (CHANGES ARE DENOTED IN RED):

- D. The Contractor agrees that it shall have no claim against the Owner for an increase in the Contract Sum or for any other monetary damages resulting from delays, disruptions, or interference on account of or resulting from conditions set forth in Subparagraph 3.34.A except only for claims for delays caused by the Owner, as set forth in Subparagraph 3.34.A.1, A.2, A.8 and solely as provided in this Subparagraph 3.34.D.
- 6. TECHNICAL SPECIFICATIONS SECTION 01 22 00 MEASUREMENT AND PAYMENT <u>BID ITEM 1. Mobilization and Demobilization</u>

CHANGE Item 1 as follows (CHANGES ARE DENOTED IN RED):

- 1. The Mobilization and Demobilization Payment Item has been established to provide the Contractor with reimbursement for a portion of its costs to Mobilize and Demobilize as specified in Section 01 71 14 "Mobilization and Demobilization." The price for this BID ITEM shall not be more than 2.5% 5 % of the total Contract Amount.
- 7. Article 2.33 ESCROW BID DOCUMENTS (Article 2, page 2-15)

CHANGE 2.33, 2nd paragraph as follows (CHANGES ARE DENOTED IN RED):

The two (2) apparent low Bidders shall submit one copy of all documentary information generated in preparation of Bid prices for this project to the Escrow Agent within three (3) five (5) working days after opening of the Bids. This material is hereinafter referred to as Escrow Bid Documents (EBDs). The EBDs of the

Successful Bidder will be held in escrow for the duration of the Contract and Post-Completion Correction period. EBDs of other Bidders will be returned to the Bidders following award and execution of the Contract with the Successful Bidder.

8. APPENDIX B - CONTRACT DRAWINGS

- a) DELETE A48-ST-300 (Sheet 361 of 770) and ADD Revised A48-ST-300 (Sheet 361 of 770), which is Attachment A to this Addendum.
- b) DELETE O06A-ST-800 (Sheet 623 of 770) and ADD revised O06A-ST-800 (Sheet 623 of 770), which is Attachment B to this Addendum.

9. APPENDIX B – CONTRACT DRAWINGS

- a) DELETE ORT-GN-011 (Sheet 10 of 770) and ADD Revised ORT-GN-011 (Sheet 10 of 770), which is Attachment C to this Addendum.
- **b) DELETE ORT-GN-013** (Sheet 13 of 770) **and ADD Revised ORT-GN-013** (Sheet 13 of 770), which is Attachment C to this Addendum.
- c) DELETE O27-CI-106 (Sheet 196 of 770) and ADD Revised O27-CI-106 (Sheet 196 of 770), which is Attachment C to this Addendum.
- d) DELETE O27-CI-110 (Sheet 200 of 770) and ADD Revised O27-CI-110 (Sheet 200 of 770), which is Attachment C to this Addendum.
- e) DELETE O41-CI-206 (Sheet 305 of 770) and ADD Revised O41-CI-206 (Sheet 305 of 770), which is Attachment C to this Addendum.
- f) DELETE O41-CI-207 (Sheet 306 of 770) and ADD Revised O41-CI-207 (Sheet 306 of 770), which is Attachment C to this Addendum.
- g) DELETE A48-CI-305 (Sheet 358 of 770) and ADD Revised A48-CI-305 (Sheet 358 of 770), which is Attachment C to this Addendum.
- h) DELETE A58-CI-406 (Sheet 392 of 770) and ADD Revised A58-CI-406 (Sheet 392 of 770), which is Attachment C to this Addendum.
- i) DELETE O14-CI-607 (Sheet 526 of 770) and ADD Revised O14-CI-607 (Sheet 526 of 770), which is Attachment C to this Addendum.
- **j) DELETE O14-CI-608** (Sheet 527 of 770) **and ADD Revised O14-CI-608** (Sheet 527 of 770), which is Attachment C to this Addendum.
- k) DELETE O14-CI-609 (Sheet 528 of 770) and ADD Revised O14-CI-609 (Sheet 528 of 770), which is Attachment C to this Addendum.
- l) DELETE ORT-MD-028 (Sheet 675 of 770) and ADD Revised ORT-MD-028 (Sheet 675 of 770), which is Attachment C to this Addendum.
- m) DELETE ORT-MD-029 (Sheet 676 of 770) and ADD Revised ORT-MD-029 (Sheet 676 of 770), which is Attachment C to this Addendum.
- n) DELETE ORT-MD-030 (Sheet 677 of 770) and ADD Revised ORT-MD-030 (Sheet 677 of 770), which is Attachment C to this Addendum.

10. APPENDIX B – CONTRACT DRAWINGS

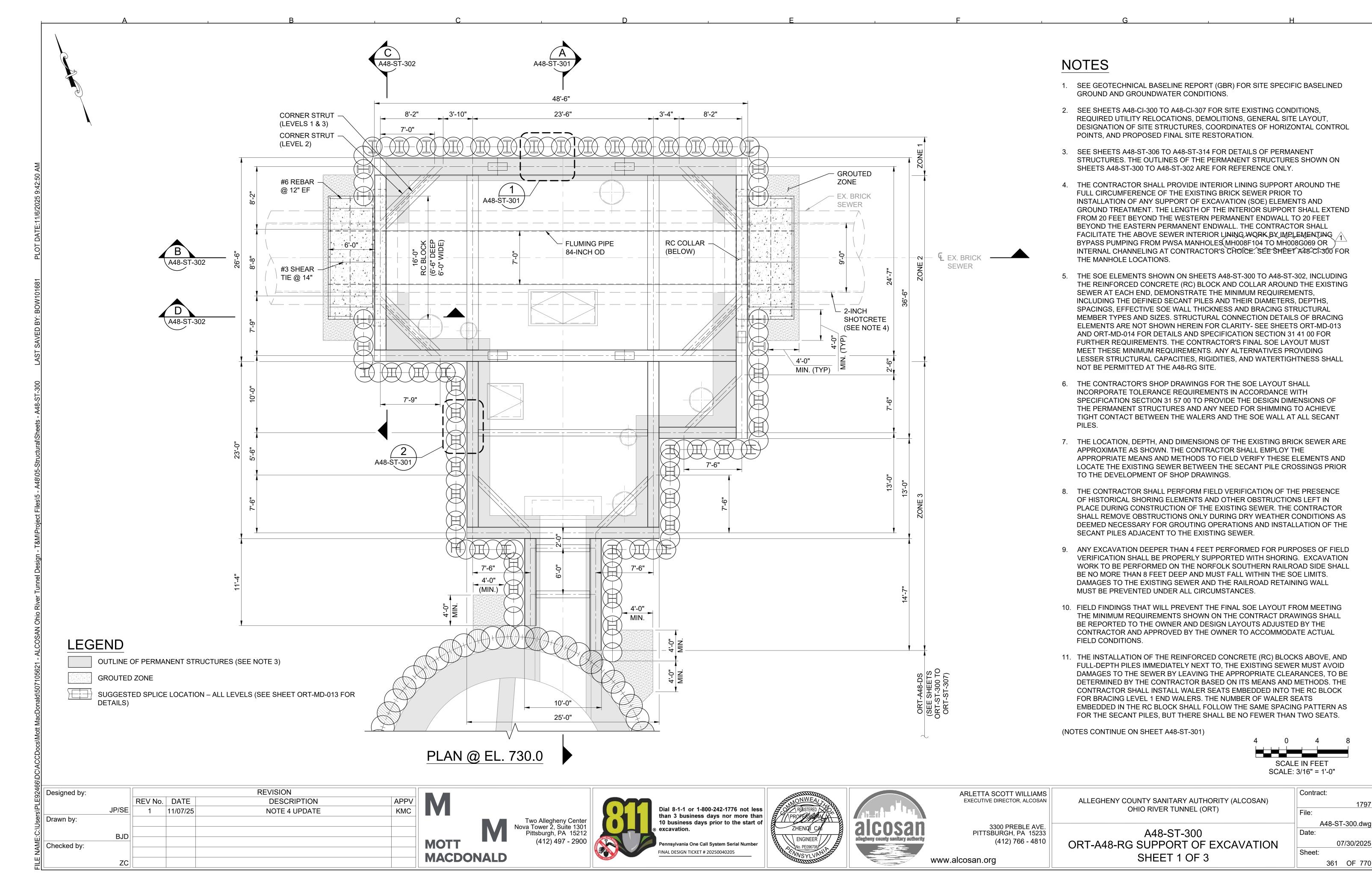
- a) DELETE O27-ST-135 (Sheet 238 of 770) and ADD Revised O27-ST-135 (Sheet 238 of 770), which is Attachment D to this Addendum.
- b) **DELETE O41-ST-218** (Sheet 333 of 770) and **ADD Revised O41-ST-218** (Sheet 333 of 770), which is Attachment D to this Addendum.
- c) DELETE O41-ST-225 (Sheet 340 of 770) and ADD Revised O41-ST-225 (Sheet 340 of 770), which is Attachment D to this Addendum.
- **d) DELETE A58-ST-417** (Sheet 418 of 770) **and ADD Revised A58-ST-417** (Sheet 418 of 770), which is Attachment D to this Addendum.
- e) DELETE O07-ST-707 (Sheet 506 of 770) and ADD Revised O07-ST-707 (Sheet 506 of 770), which is Attachment D to this Addendum.

Addendum No. 6

Attachment A

APPENDIX B - CONTRACT DRAWINGS

• Revised A48-ST-300 (Sheet 361 of 770) (1 page)



07/30/2025

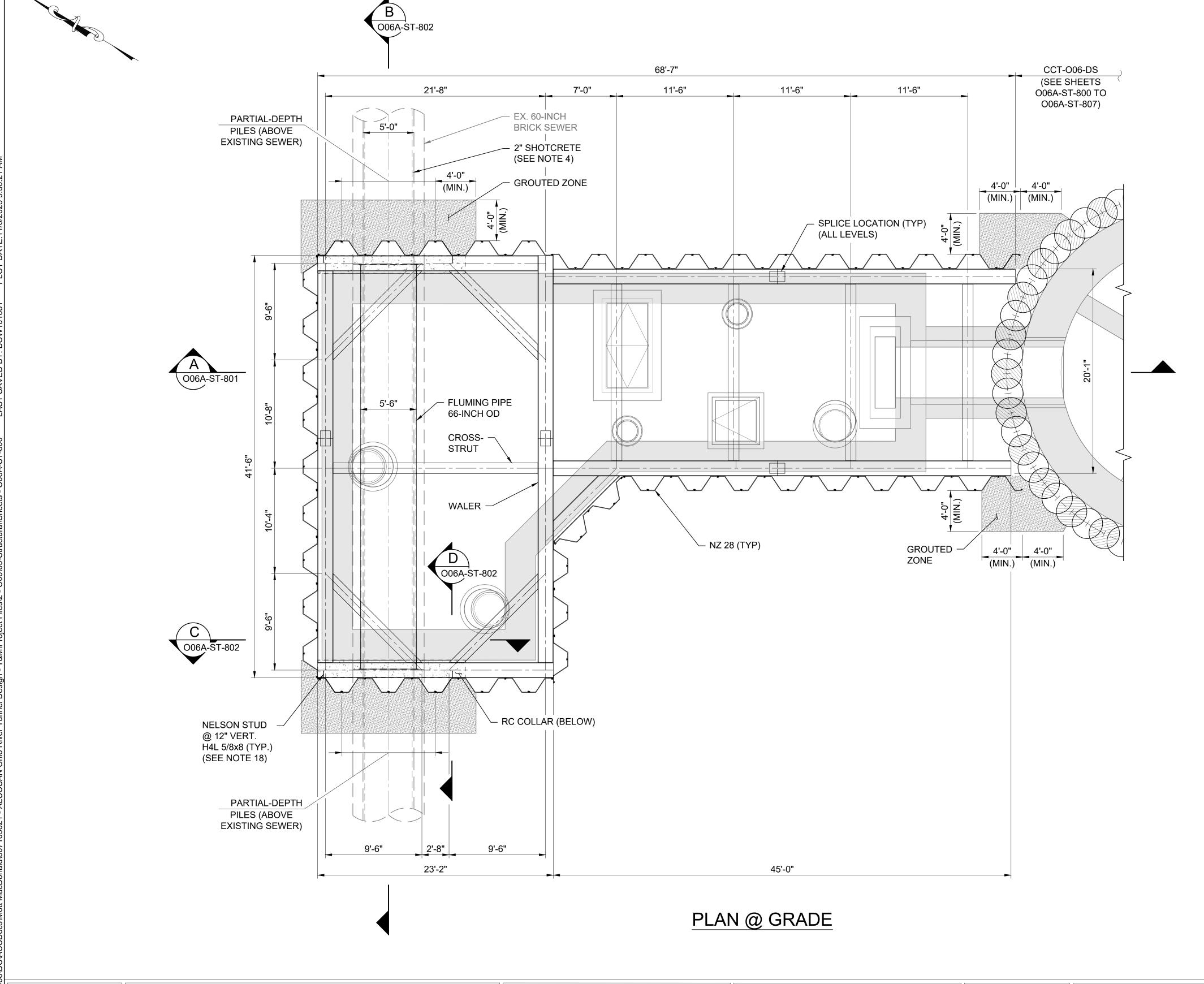
361 OF 770

Addendum No. 6

Attachment B

APPENDIX B - CONTRACT DRAWINGS

• Revised O06A-ST-800 (Sheet 623 of 770) (1 page)



NOTES

- 1. SEE GEOTECHNICAL BASELINE REPORT (GBR) FOR SITE SPECIFIC BASELINED GROUND AND GROUNDWATER CONDITIONS.
- 2. SEE SHEETS O06A-CI-800 TO O06A-CI-813 FOR SITE EXISTING CONDITIONS, REQUIRED UTILITY RELOCATIONS, GENERAL SITE LAYOUT, DESIGNATION OF SITE STRUCTURES, COORDINATES OF HORIZONTAL CONTROL POINTS, AND PROPOSED FINAL SITE RESTORATION.
- 3. SEE SHEETS O06A-ST-806 TO O06A-ST-813 FOR DETAILS OF PERMANENT STRUCTURES. THE OUTLINES OF THE PERMANENT STRUCTURES SHOWN ON SHEETS O06A-ST-800 TO O06A-ST-802 ARE FOR REFERENCE ONLY.
- 4. THE CONTRACTOR SHALL PROVIDE INTERIOR LINING SUPPORT AROUND THE FULL CIRCUMFERENCE OF THE EXISTING BRICK SEWER PRIOR TO INSTALLATION OF ANY SUPPORT OF EXCAVATION (SOE) ELEMENTS AND GROUND TREATMENT. THE LENGTH OF THE INTERIOR SUPPORT SHALL EXTEND FROM 20 FEET BEYOND THE WESTERN PERMANENT ENDWALL TO 20 FEET BEYOND THE EASTERN PERMANENT ENDWALL. THE CONTRACTOR SHALL FACILITATE THE ABOVE SEWER INTERIOR LINING WORK BY IMPLEMENTING BYPASS PUMPING FROM MANHOLES MROCK MH0340A TO MROCK (MH0288) SEE SHEET O06A-CI-800 FOR THE MANHOLE LOCATIONS.
- 5. THE SOE ELEMENTS SHOWN ON SHEETS O06A-ST-800 TO O06A-ST-802, INCLUDING THE REINFORCED CONCRETE (RC) COLLAR (AS A PART OF THE PERMANENT STRUCTURE AT THIS SITE) AROUND THE EXISTING SEWER AT EACH END, DEMONSTRATE THE MINIMUM REQUIREMENTS, INCLUDING THE DEFINED STEEL SHEETING TYPE, THEIR DEPTHS AND BRACING STRUCTURAL MEMBER TYPES AND SIZES. STRUCTURAL CONNECTION DETAILS OF BRACING ELEMENTS ARE NOT SHOWN HEREIN FOR CLARITY - SEE SHEETS ORT-MD-013 AND ORT-MD-014 FOR DETAILS AND SPECIFICATIONS SECTION 31 41 00 FOR FURTHER REQUIREMENTS. THE CONTRACTOR'S FINAL SOE LAYOUT MUST MEET THESE MINIMUM REQUIREMENTS. ANY ALTERNATIVES PROVIDING LESSER STRUCTURAL CAPACITIES, RIGIDITIES, AND WATERTIGHTNESS SHALL NOT BE PERMITTED AT THE CCT-006A-RG SITE.
- 6. THE CONTRACTOR'S SHOP DRAWINGS FOR THE SOE LAYOUT SHALL INCORPORATE TOLERANCE REQUIREMENTS IN ACCORDANCE WITH SPECIFICATION SECTION 31 41 16 TO PROVIDE THE DESIGN DIMENSIONS OF THE PERMANENT STRUCTURES AND ANY NEED FOR SHIMMING TO ACHIEVE TIGHT CONTACT BETWEEN THE WALERS AND THE SOE WALL AT ALL SHEET PILES.
- 7. THE LOCATION, DEPTH, AND DIMENSIONS OF THE EXISTING BRICK SEWER ARE APPROXIMATE AS SHOWN. THE CONTRACTOR SHALL EMPLOY THE APPROPRIATE MEANS AND METHODS TO FIELD VERIFY THESE ELEMENTS AND LOCATE THE EXISTING SEWER BETWEEN THE SHEET PILE CROSSINGS PRIOR TO THE DEVELOPMENT OF SHOP DRAWINGS.
- 8. THE CONTRACTOR SHALL PERFORM FIELD VERIFICATION OF THE PRESENCE OF HISTORICAL SHORING ELEMENTS AND OTHER OBSTRUCTIONS LEFT IN PLACE DURING CONSTRUCTION OF THE EXISTING SEWER. THE CONTRACTOR SHALL REMOVE OBSTRUCTIONS ONLY DURING DRY WEATHER CONDITIONS AS DEEMED NECESSARY FOR GROUTING OPERATIONS AND INSTALLATION OF THE SHEET PILES ADJACENT TO THE EXISTING SEWER.
- 9. ANY EXCAVATION DEEPER THAN 4 FEET PERFORMED FOR PURPOSES OF FIELD VERIFICATION WITHIN ELLA STREET OR SHINGISS STREET SHALL BE PROPERLY SUPPORTED WITH SHORING.
- 10. FIELD FINDINGS THAT WILL PREVENT THE FINAL SOE LAYOUT FROM MEETING THE MINIMUM REQUIREMENTS SHOWN ON THE CONTRACT DRAWINGS SHALL BE REPORTED TO THE OWNER AND DESIGN LAYOUTS ADJUSTED BY THE CONTRACTOR AND APPROVED BY THE OWNER TO ACCOMMODATE ACTUAL FIELD CONDITIONS.

(NOTES CONTINUE ON SHEET O06A-ST-801)

LEGEND

OUTLINE OF PERMANENT STRUCTURES (SEE NOTE 3)

GROUTED ZONE

SUGGESTED SPLICE LOCATION - ALL LEVELS (SEE SHEET ORT-MD-013 FOR **DETAILS**)



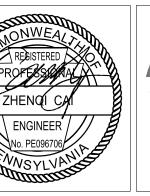
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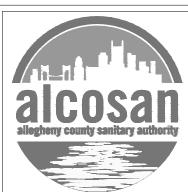
REVISION Designed by: APPV **DESCRIPTION** REV No. DATE KMC JP/SE 11/07/25 **NOTE 4 UPDATE** 1 Drawn by: BJD Checked by: ZC

Two Allegheny Center Nova Tower 2, Suite 1301 Pittsburgh, PA 15212 MOTT **MACDONALD**



Dial 8-1-1 or 1-800-242-1776 not less than 3 business days nor more than 10 business days prior to the start of excavation. ENGINEER nsylvania One Call System Serial Number FINAL DESIGN TICKET # 20250040203





ARLETTA SCOTT WILLIAMS EXECUTIVE DIRECTOR, ALCOSAN

www.alcosan.org

3300 PREBLE AVE. PITTSBURGH, PA 15233 (412) 766 - 4810

ALLEGHENY COUNTY SANITARY AUTHORITY (ALCOSAN) OHIO RIVER TUNNEL (ORT)

O06A-ST-800.dwg O06A-ST-800 CCT-006A-RG SUPPORT OF EXCAVATION 07/30/2025 Sheet: SHEET 1 OF 3 623 OF 770

Addendum No. 6

Attachment C

APPENDIX B - CONTRACT DRAWINGS

- Revised ORT-GN-011 (Sheet 10 of 770) (1 page)
- Revised ORT-GN-013 (Sheet 13 of 770) (1 page)
- Revised O27-CI-106 (Sheet 196 of 770) (1 page)
- Revised O27-CI-110 (Sheet 200 of 770) (1 page)
- Revised O41-CI-206 (Sheet 305 of 770) (1 page)
- Revised O41-CI-207 (Sheet 306 of 770) (1 page)
- Revised A48-CI-305 (Sheet 358 of 770) (1 page)
- Revised A58-CI-406 (Sheet 392 of 770) (1 page)
- Revised O14-CI-607 (Sheet 526 of 770) (1 page)
- Revised O14-CI-608 (Sheet 527 of 770) (1 page)
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- Revised ORT-MD-028 (Sheet 675 of 770) (1 page)
- Revised ORT-MD-029 (Sheet 676 of 770) (1 page)
- Revised ORT-MD-030 (Sheet 677 of 770) (1 page)

PITTSBURGH WATER GENERAL NOTES:

- 1. WATER AND SEWER RELOCATIONS TO PITTSBURGH WATER SYSTEMS MUST BE CONSTRUCTED AND CONNECTED TO EXISTING FACILITIES MEETING PITTSBURGH WATER
- 2. DEWATERING: DEWATER WORK LOCATIONS PRIOR TO INSTALLING PIPE AND MATERIALS. INSTALLATION IS NOT PERMITTED IN ANY EXCAVATION WHERE STANDING WATER IS PRESENT.
- 3. POTABLE WATER COMPLIANCE: ANY PORTION OF ANY WORK THAT COMES INTO CONTACT WITH POTABLE WATER MUST BE IN FULL COMPLIANCE WITH 25 PENNSYLVANIA CODE 109.606 AND BE NSF APPROVED.
- 4. VERIFICATION OF CONDITIONS: ALL ELEVATIONS AND DIMENSIONS SHOWN ARE APPROXIMATE AND MAY NOT REFLECT EXACT FIELD CONDITIONS. VERIFY DIMENSIONS, ELEVATIONS AND SITE CONDITIONS FOR UTILITY RELOCATIONS AND COMPLETE INVESTIGATIONS PRIOR TO STARTING WATER AND SEWER CONSTRUCTION.
- 5. SALVAGED MATERIALS: PITTSBURGH WATER RESERVES THE RIGHT TO SALVAGE WATER MAIN HYDRANTS, VALVES, SQUARE VALVE BOX FRAMES AND COVERS AND SEWER MANHOLE FRAMES AND COVERS REMOVED DURING CONSTRUCTION. MATERIALS SELECTED FOR SALVAGE BY PITTSBURGH WATER MUST BE DELIVERED TO A STORAGE FACILITY WITHIN THE CITY OF PITTSBURGH.
 6. FITTING PLACEMENT: VERIFY DIMENSIONS CONTROLLED BY OR RELATED TO PIPE FITTINGS WITH THE MANUFACTURER PRIOR TO CONSTRUCTION INCLUDING BOLT SIZES, TYPES, AND PATTERNS. ALL BOLT PATTERNS SHALL BE TEMPLATED TO ENSURE ACCURACY OF PLACEMENT.
- 7. CONTINUOUS SERVICE: WATER AND SEWER SERVICE SHALL BE MAINTAINED THROUGHOUT THE UTILITY RELOCATIONS. FURNISH AND INSTALL TEMPORARY CUTS AND PLUGS OF EXISTING PIPES AS NECESSARY TO MAINTAIN SERVICE.
- 8. ABANDONMENT: DEWATER, CUT, BULKHEAD/CAP AND BURY ALL EXISTING LINES THAT ARE ABANDONED IN PLACE. FOR LINES 8" AND LARGER IN DIAMETER, FILL THE LINE WITH APPROVED FLOWABLE FILL.
 REMOVE ALL CASTINGS ON VALVES/MAINS THAT ARE TO BE ABANDONED.
- 9. TIE-INS: WHEN TIE-INS AND RECONNECTIONS TO THE EXISTING WATER DISTRIBUTION SYSTEM ARE MADE A CONTINUOUS WORK OPERATION MUST BE MAINTAINED UNTIL ALL WATER SERVICE IS RESTORED.
- 10. UNDERGROUND FACILITIES: NOTIFY PITTSBURGH WATER IMMEDIATELY OF ANY UNDERGROUND FACILITIES FOUND WHICH MAY RESULT IN CHANGES OR ADJUSTMENTS TO THE APPROVED CONSTRUCTION DRAWINGS. SUBMIT A DETAILED PLAN OF ANY ADJUSTMENTS WHICH MAY BE REQUIRED TO PITTSBURGH WATER FOR APPROVAL.
- 11. FINAL CLEANING: CLEAN ALL WATER BOXES, CATCH BASINS, STORM INLETS, AND MANHOLES AFTER CONSTRUCTION AND/OR PAVING IS COMPLETED INCLUDING CASTING SURFACES.
- 12. PRELIMINARY STAKEOUT: PROVIDE STAKEOUT FOR THE PROPOSED RELOCATIONS AND OBTAIN PITTSBURGH WATER APPROVAL PRIOR TO BEGINNING CONSTRUCTION OF PITTSBURGH WATER FACILTIES.
- 13. FIELD AS-BUILTS: PROVIDE AS-BUILT REDLINES TO PITTSBURGH WATER AS APPROVED BY THE CONSTRUCTION MANAGER.
- 14. NEW HYDRANT INSTALLATION AND FIELD ADJUSTMENT: INSTALL NEW FIRE HYDRANTS WITH AT LEAST 5 FEET OF CLEARANCE TO EXISTING UTILITY POLES, SIGN POSTS, ADA RAMPS AND UTILITY STRUCTURES. COMPLY WITH CITY OF PITTSBURGH STANDARDS AND ADA REQUIREMENTS. LOCATION OF A PROPOSED HYDRANT MAY NEED TO BE FIELD ADJUSTED BASED ON CURRENT FIELD CONDITIONS. SECURELY PLACE A BAG OVER NEW HYDRANTS THAT ARE NOT ACTIVELY IN SERVICE AND TURNED OVER TO PITTSBURGH WATER.
- 15. BURIED VALVES: MAKE A GOOD FAITH EFFORT TO LOCATE ALL THE VALVES THAT ARE PAVED OVER OR COVERED FOR THE PURPOSE OF COMPLETING THE SPECIFIED WORK
- 16. UTILITY CROSSING MINIMUM CLEARANCE: WHEN CROSSING EXISTING UTILITIES OTHER THAN SEWERS WITH PROPOSED WATER MAIN, PROVIDE MINIMUM 1 FOOT VERTICAL CLEARANCE, OR DEPTH SHOWN ON PLAN/PROFILE DRAWINGS.
- 17. A PRECONSTRUCTION MEETING IS REQUIRED WITH PITTSBURGH WATER PRIOR TO THE START OF CONSTRUCTION.

WATER SERVICE LINE REPLACEMENT NOTES:

- 1. SERVICE LINE VERIFICATION: PERFORM WATER SERVICE LINE VERIFICATION EXCAVATION TO THE EXTENTS NECESSARY TO VERIFY THE SERVICE LINE MATERIAL AND DIAMETER TO A MINIMUM OF 24-INCHES ON BOTH SIDES OF THE CURB STOP. IMMEDIATELY NOTIFY THE CONSTRUCTION MANAGER IF A CURB BOX CANNOT BE LOCATED. VERIFICATIONS MUST BE COMPLETE PRIOR TO THE START OF WATERLINE RELOCATION.
- 2. PUBLIC-SIDE WATER SERVICE LINES: REPLACE ALL PUBLIC SERVICE LINE MATERIALS AND CURB BOXES PER DETAILS.
- 3. PRIVATE-SIDE WATER SERVICE LINES: REPLACE PRIVATE LEAD SERVICE LINES AND PRIVATE GALVANIZED IRON SERVICE LINES.
- 4. AGREEMENT STATUS: VERIFY THAT THE PROPERTY OWNER HAS SIGNED AND RETURNED THE REQUIRED PITTSBURGH WATER AGREEMENT TO THE PITTSBURGH WATER PRIOR TO PERFORMING ANY WORK ON A PRIVATE SERVICE LINE.
- 5. ACHD PERMITS: OBTAIN THE REQUIRED ACHD PLUMBING PERMIT PRIOR TO REPLACEMENT OF EACH PRIVATE SERVICE LINE. NOTIFY ACHD AT LEAST 24 HOURS IN ADVANCE OF PLANNED PRIVATE SERVICE LINE REPLACEMENT SO THAT INSPECTION CAN BE COMPLETED ON THE DAY OF REPLACEMENT.
- 6. WORK IN PIPE ZONE: WHEN EXCAVATING WITHIN THE 12-INCH PIPE ZONE ABOVE A SERVICE LINE, HAND DIG TO EXPOSE THE CURB STOP AND THE SERVICE LINES. IN THE EVENT A SERVICE LINE IS DAMAGED NOTIFY PITTSBURGH WATER IMMEDIATELY.
- 7. NOTIFICATIONS: PROVIDE ALL NOTIFICATION MATERIALS REQUIRED BY SPECIFICATION SECTION 02515 "WATER SERVICE CONNECTIONS" TO ALL IMPACTED CUSTOMERS PRIOR TO AND IMMEDIATELY FOLLOWING SERVICE LINE REPLACEMENT WORK.
- 8. PARTIAL SERVICE LINE REPLACEMENT: DO NOT PERFORM ANY PARTIAL SERVICE LINE REPLACEMENTS.
- . LEAD SERVICE LINES ARE DEFINED AS EXISTING WATER SERVICE LINES ON THE PRIVATE SIDE OF THE CURB BOX MADE OF LEAD OR GALVANIZED IRON. DO NOT RECONNECT TO ANY LEAD SERVICE LINES
- 10. NON-LEAD SERVICE LINES ARE DEFINED AS EXISTING WATER SERVICE LINES ON THE PRIVATE SIDE OF THE CURB BOX MADE OF COPPER.

WATER UTILITY NOTES:

- PITTSBURGH WATER VALVES: DO NOT OPERATE ANY PITTSBURGH WATER WATER VALVES. NEWLY INSTALLED VALVES ARE NOT CONSIDERED TURNED OVER TO PITTSBURGH WATER AND ARE THE
- RESPONSIBILITY OF THE CONTRACTOR UNTIL THE CONTRACTOR HAS COMPLETED A WALK THROUGH WITH PITTSBURGH WATER OPERATIONS TO ENSURE THAT VALVES ARE ACCESSIBLE AND OPERABLE.

 2. MECHANICAL JOINTS: ALL DUCTILE IRON FITTINGS, INCLUDING TEES, BENDS, CAPS, AND PLUGS, SHALL BE MECHANICAL JOINT WITH RETAINER GLAND AND LOCKING GASKET. THRUST BLOCKS SHALL BE PROVIDED AS INDICATED ON THE CONTRACT DRAWINGS AND SPECIFICATIONS.
- 3. JOINT RESTRAINT: INSTALL A MINIMUM 18-INCH SPOOL PIECE OF NEW DIP BETWEEN ALL VALVE-TO-FITTING AND FITTING-TO FITTING CONFIGURATIONS UNLESS FIELD CONDITIONS DO NOT PERMIT. A SUITABLE BOLT THROUGH MECHANICAL JOINT RESTRAINT SUCH AS A FOSTER ADAPTOR MAY BE UTILIZED TO DIRECTLY MOUNT A VALVE TO A FITTING OR TO CONNECT A FITTING TO ANOTHER FITTING. OBTAIN PITTSBURGH WATER APPROVAL PRIOR TO THE USE OF A BOLT THROUGH MECHANICAL JOINT RESTRAINT. MOUNT SIX-INCH HYDRANT VALVES DIRECTLY TO AN ANCHORING TEE AT THE CONNECTION TO THE WATER MAIN.
- 4. VALVE ABANDONMENT: REMOVE EXISTING CASTING AND BACKFILL VALVE BOX FOR ALL VALVE ABANDONMENTS.
- 5. WORK NEAR CATCH BASINS AND INLETS: RESTRAIN WATER MAIN JOINTS WITHIN 10 FEET OF CATCH BASINS AND INLETS.
- 6. NOTIFICATION: NOTIFY PITTSBURGH WATER A MINIMUM OF 72 HOURS IN ADVANCE OF THE TIME WHEN THE CONTRACTOR PROPOSES TO CONNECT THE NEW WATER MAIN TO THE EXISTING WATER MAINS SO THAT THE PITTSBURGH WATER OPERATIONS DIVISION MAY ARRANGE FOR THE OPERATION OF NECESSARY VALVES. ALL PREPARATION NECESSARY TO MAKE TIE-IN MUST BE COMPLETED THE DAY PRIOR TO THE REQUESTED SHUT. THE CONSTRUCTION MANAGER WILL CONFIRM THAT THE SITE IS READY FOR THE REQUIRED TIE-IN WORK PRIOR TO PITTSBURGH WATER INITIATING VALVE SHUTS.
- 7. PRESSURE TESTING: PRESSURE AND LEAKAGE TESTS OF INSTALLED WATERLINE MUST COMPLY WITH THE PROJECT SPECIFICATIONS AND THE LATEST EDITION OF AWWA STANDARD C-600. MAKE REPAIRS NECESSARY DUE TO FAILURE TO PASS TESTS AND RETEST THE LINE UNTIL THE WATERLINE PASSES TESTING.
- 3. FLUSHING, BACTERIOLOGICAL TESTING, AND STERILIZATION: AFTER THE WATERLINE HAS PASSED PRESSURE AND LEAKAGE TESTING, FLUSH AND DISINFECT THE WATERLINE IN ACCORDANCE WITH AWWA STANDARD C-651. PROVIDE A MINIMUM OF 48 HOURS NOTICE PRIOR TO ANY BACTERIOLOGICAL TEST. A WATERLINE CAN NOT BE PUT INTO SERVICE UNTIL AT LEAST ONE PASSING BACTERIOLOGICAL SAMPLE HAS BEEN RECEIVED. IF THE INITIAL SAMPLE DOES NOT PASS TESTING, DISINFECT AND RETEST UNTIL A PASSING SAMPLE IS OBTAINED AND APPROVED BY PITTSBURGH WATER. PROPERLY DISPOSE OF THE STERILIZATION SOLUTION ACCORDING TO CURRENT PADEP STANDARDS.

PITTSBURGH WATER GENERAL CONCRETE NOTES

- 1. INSTALL NEW THRUST BLOCKS, BUTTRESSES, COLLARS, AND ANCHORS WHERE SPECIFIED ON THE DRAWINGS, IN ACCORDANCE WITH PITTSBURGH WATER STANDARD DETAILS. THE CONTRACTOR SHALL MAKE SURE THAT NEW THRUST BLOCKS, COLLARS AND ANCHORS ARE COMPLETELY CURED BEFORE PUTTING NEW WATER MAINS IN SERVICE.
- 2. WHEN NOT OTHERWISE STATED IN THE DRAWINGS OR SPECIFICATIONS, PROVIDE THE FOLLOWING MINIMUM CONCRETE COVER FOR REINFORCEMENT FOR CAST-IN-PLACE CONCRETE:
- A. CONCRETE CAST AGAINST AND PERMANENTLY EXPOSED TO EARTH 3"
- B. CONCRETE EXPOSED TO EARTH AND WEATHER:
 - #6 THROUGH #18 BARS 2"
 - #5 BARS, W31 OR D31 WIRE AND SMALLER 1-1/2"
- C. CONCRETE NOT EXPOSED TO WEATHER OR IN CONTACT WITH GROUND: #14 AND #18 BARS 1-1/2"
 - #11 BAR AND SMALLER 3/4"
- TTODUDOU WATER BLOOKING NOTES

PITTSBURGH WATER BLOCKING NOTES:

- I. RESTRAIN ALL FIRE HYDRANTS, VALVES AND PIPE TO WATER MAIN TEE.
- BLOCK ALL CAP/PLUGS WITH CONCRETE.
- 3. RESTRAIN ALL JOINTS ON WATER MAIN WHERE NOTED ON THE DRAWINGS.
- CONCRETE BLOCKING IS NOT REQUIRED ON PIPE FITTINGS THAT ARE RESTRAINED WITHIN THE LIMITS SHOWN ON THESE DRAWINGS.

SURVEY NOTES:

- 1. DRAWINGS ARE BASED ON TOPOGRAPHIC SURVEY DATA COLLECTED BY MONALOH BASIN ENGINEERS (ADDRESS: 300 BUSINESS CENTER DR # 304, PITTSBURGH, PA 15205. PHONE: 412-788-2433) IN PENNSYLVANIA STATE PLANE COORDINATE SYSTEM DURING AUGUST AND SEPTEMBER 2024. ALL SURVEY: HORIZONTAL DATUM = NAD 83 AND VERTICAL DATUM = NAVD 88.
- 2. OFFSETS IF SHOWN ARE FOR SURVEY REFERENCES ONLY AND ARE NOT TO BE USED IN CONSTRUCTION.
- 3. TOPOGRAPHIC FIELD SURVEY HAS BEEN SUPPLEMENTED WITH AVAILABLE GIS DATA, PROVIDED BY PITTSBURGH WATER, TO CREATE THESE PLANS.
- 4. UNLESS SPECIFICALLY NOTED HEREIN, SEWER INFORMATION (INCLUDING PIPE INVERTS) IS AS OBSERVED AND MEASURED AT FIELD-LOCATED STRUCTURES (MANHOLES AND CATCH BASINS, ETC.). CONDITIONS CAN VARY FROM THOSE ENCOUNTERED AT THE TIMES WHEN AND WHERE LOCATION DATA WAS OBTAINED. DESPITE MEETING THE REQUIRED STANDARD OF CARE, THE SURVEYOR CANNOT AND DOES NOT WARRANT THAT PIPE MATERIAL AND PIPE SIZE THROUGHOUT A PIPE RUN ARE THE SAME AS THOSE OBSERVED AT EACH STRUCTURE, OR THAT THE PIPE RUN IS STRAIGHT BETWEEN THE LOCATED STRUCTURES.
- 5. ADDITIONAL UTILITY (WATER, GAS, ELECTRIC, ETC.) DATA ARE BASED ON A PA ONE-CALL COMPLEX TICKET, SUBSURFACE UTILITY ENGINEERING (SUE) TO THE EXTENT POSSIBLE IN COMPLIANCE WITH ASCE 38-22, FIELD-LOCATED SURFACE MARKING (BY OTHERS), EXISTING STRUCTURES AND EXISTING DRAWINGS. AVAILABLE UTILITY AS-BUILT RECORD DOCUMENTATION WILL BE PROVIDED TO THE CONTRACTOR.
- 6. UNLESS SPECIFICALLY NOTED HEREIN, THE SURVEYOR HAS NOT EXCAVATED TO PHYSICALLY LOCATE THE UNDERGROUND UTILITIES. THE SURVEYOR MAKES NO GUARANTEES THAT THE SHOWN UNDERGROUND UTILITIES ARE EITHER IN SERVICE, ABANDONED OR SUITABLE FOR USE, NOR ARE IN THE EXACT LOCATION OR CONFIGURATION INDICATED HEREON.
- 7. PRIOR TO ANY CONSTRUCTION, CONTACT UTILITY AGENCIES FOR VERIFICATION OF UTILITY TYPES AND FIELD LOCATIONS.

PITTSBURGH WATER UTILITY NOTES:

- 1. EXISTING UTILITY IMPACTS: NOTE THE PRESENCE OF OVERHEAD POWER AND COMMUNICATION LINES AND SUPPORT POLES, UNDERGROUND COMMUNICATION AND POWER LINES, GAS MAINS, WATERLINES AND SEWERS THROUGHOUT THE WORK AREA. DAMAGE CAUSED BY THE CONTRACTOR TO PUBLICLY OR PRIVATELY-OWNED STRUCTURES AND UTILITIES SHALL BE REPAIRED IN KIND. DAMAGE TO EXISTING UTILIES THAT ARE ACCURATELY MARKED OR CONSIDERED EVIDENT DUE TO THE PRESENCE OF APPURTENANT INFRASTRUCTURE SUCH AS CURB BOXES, VALVE BOXES, MANHOLES, CATCH BASINS, JUNCTION BOXES, METERS, ETC. SHALL BE REPAIRED IN KIND AT THE CONTRACTOR'S EXPENSE.
- 2. SUPPORT AND BRACE ALL ABOVE-GROUND AND BELOW-GROUND POLES, STRUCTURES AND UTILITIES ADJACENT TO AND WITHIN EXCAVATIONS AT NO ADDITIONAL COST TO THE OWNER.
- 3. UNDERGROUND FACILITIES: UNDERGROUND FACILITIES, STRUCTURES AND UTILITIES HAVE BEEN PLOTTED BY THE DESIGN ENGINEER FROM A COMBINATION OF OBSERVED EVIDENCE, DESIGNATION, FIELD SURVEYS AND RECORD PLANS OBTAINED FROM UTILITY OWNERS. LOCATIONS AND SIZES SHOWN ARE APPROXIMATE. THERE MAY BE OTHER UNKNOWN UNDERGROUND FACILITIES WITHIN THE PROJECT AREA FOR WHICH INFORMATION WAS NOT AVAILABLE AT THE TIME OF DESIGN. IT IS THE CONTRACTOR'S RESPONSIBILITY TO THOROUGHLY REVIEW THE CONTRACT DRAWINGS AND VERIFY ELEVATIONS AND DIMENSIONS IN THE FIELD PRIOR TO BEGINNING ANY CONSTRUCTION ACTIVITIES. THE CONSTRUCTION MANAGER SHALL IMMEDIATELY BE NOTIFIED OF ANY VARIATIONS FOUND WHICH MAY RESULT IN CHANGES OR ADJUSTMENTS TO THE DESIGN AS PRESENTED IN THE ORIGINAL CONTRACT DOCUMENTS. SUBMIT A DETAILED PLAN FOR ANY ADJUSTMENTS WHICH MAY BE REQUIRED.
- 4. UTILITY CROSSING MINIMUM CLEARANCE: UNLESS OTHERWISE DIRECTED PROVIDE MINIMUM 1 FOOT VERTICAL CLEARANCE WHEN CROSSING EXISTING UTILITIES OTHER THAN WATER WITH PROPOSED MAIN WATER MAIN CROSSINGS REQUIRE MINIMUM 18" VERTICAL CLEARANCE.



PITTSBURGH WATER APPROVAL BLOCK

ORT-GN-013 STANDARD SYMBOLS & LEGEND (TO BE COMPLETED AS PART OF ALCOSAN'S ORT CONSTRUCTION AND INCLUDED AS SHEET 013 OF 770) IS INCLUDED AS REVIEWED AND APPROVED BY PITTSBURGH WATER.

Pittsburgh Water approval was based on information provided by others under the assumption that this

information was accurate and complete. Please refer to Pittsburgh Water Developer's Manual for detailed information on the regulations and procedures for obtaining water and sewer service.

REVISION Designed by **APPV** REV No. DATE **DESCRIPTION** KMC 11/07/25 PITTSBURGH WATER APPROVED UTILITY PLAN Drawn by: Two Allegheny Center Nova Tower 2, Suite 1301 Pittsburgh, PA 15212 MJN (412) 497 - 2900 MOTI Checked by: **MACDONALD** KMC





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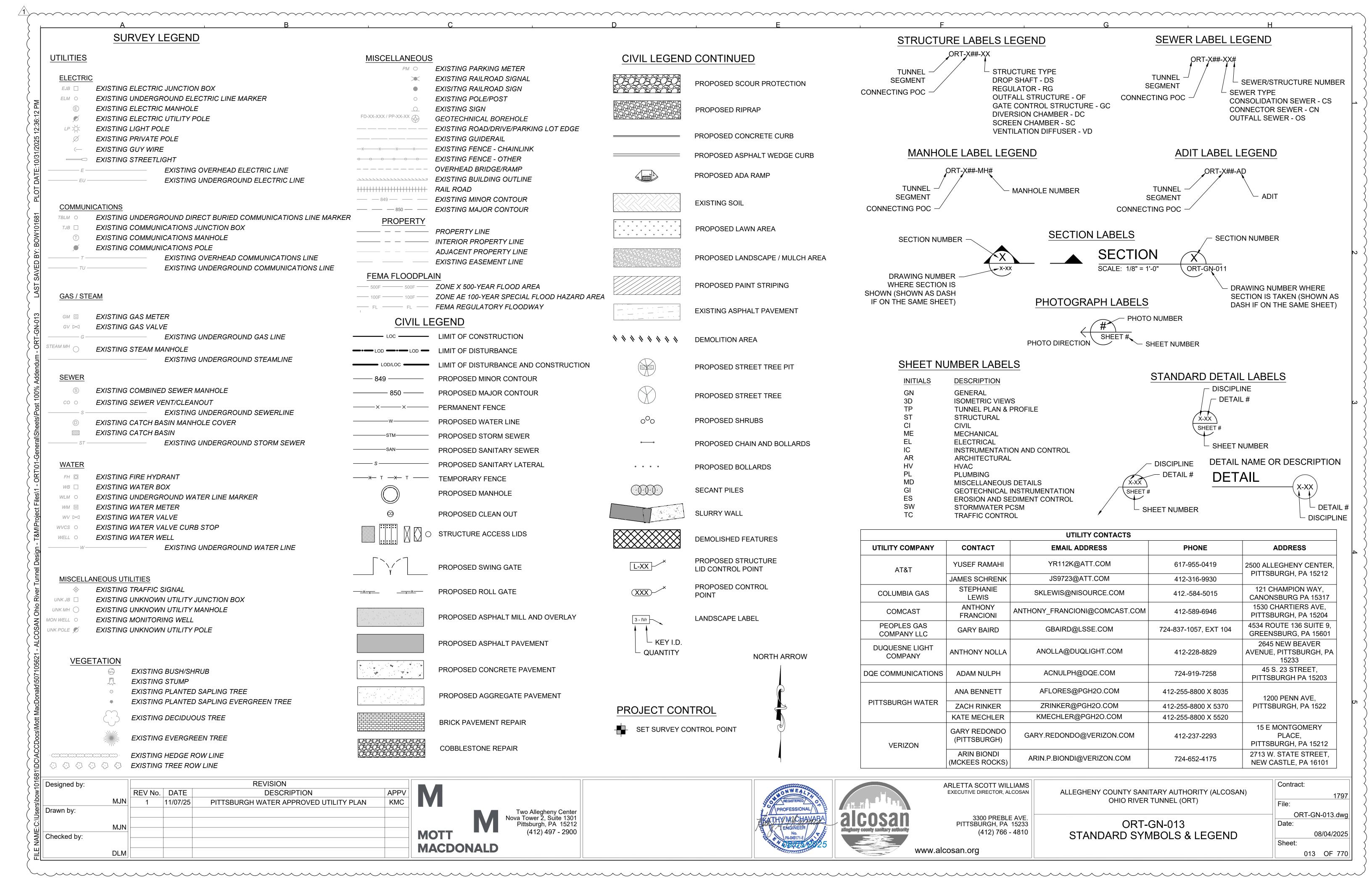
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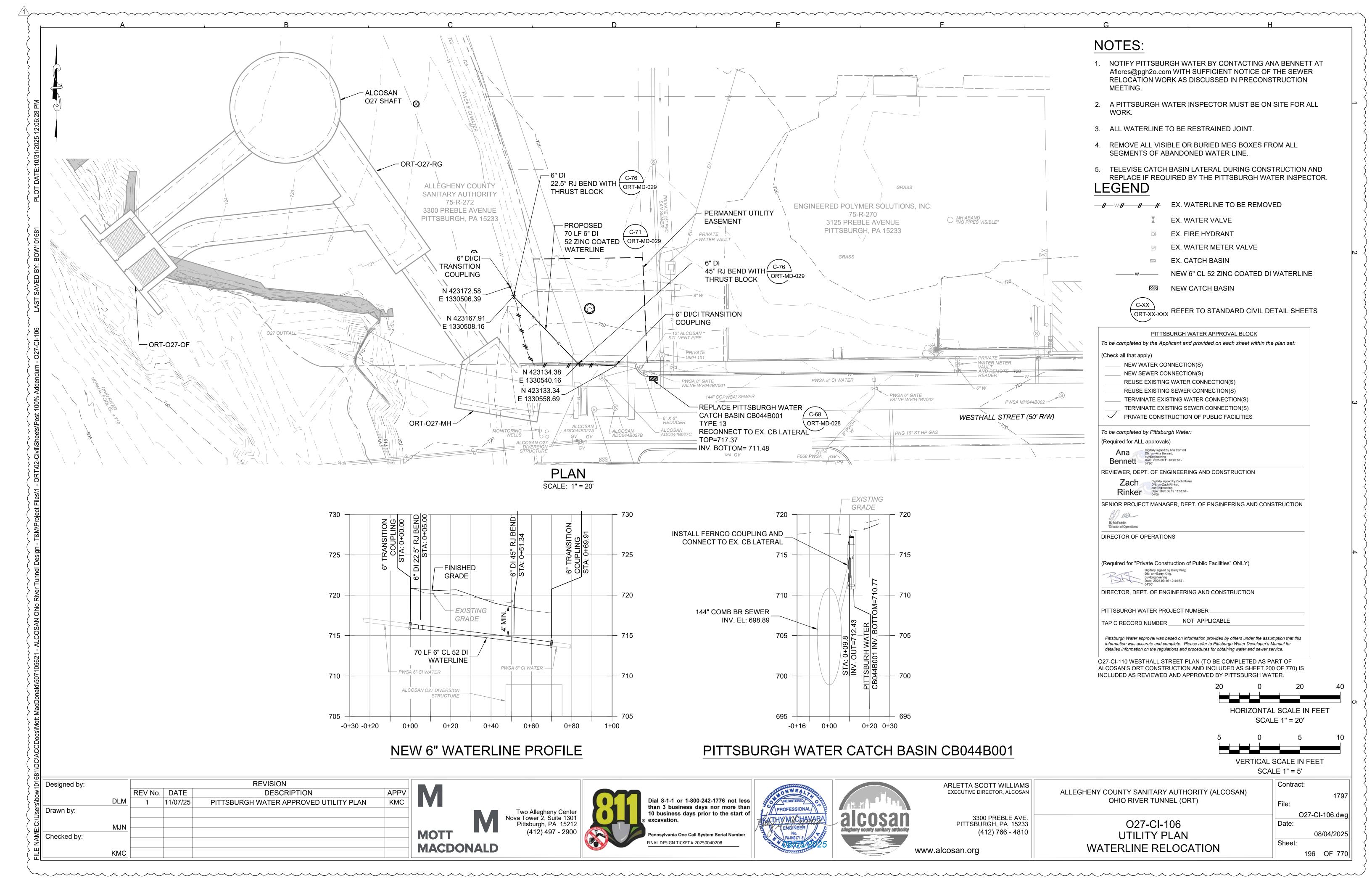
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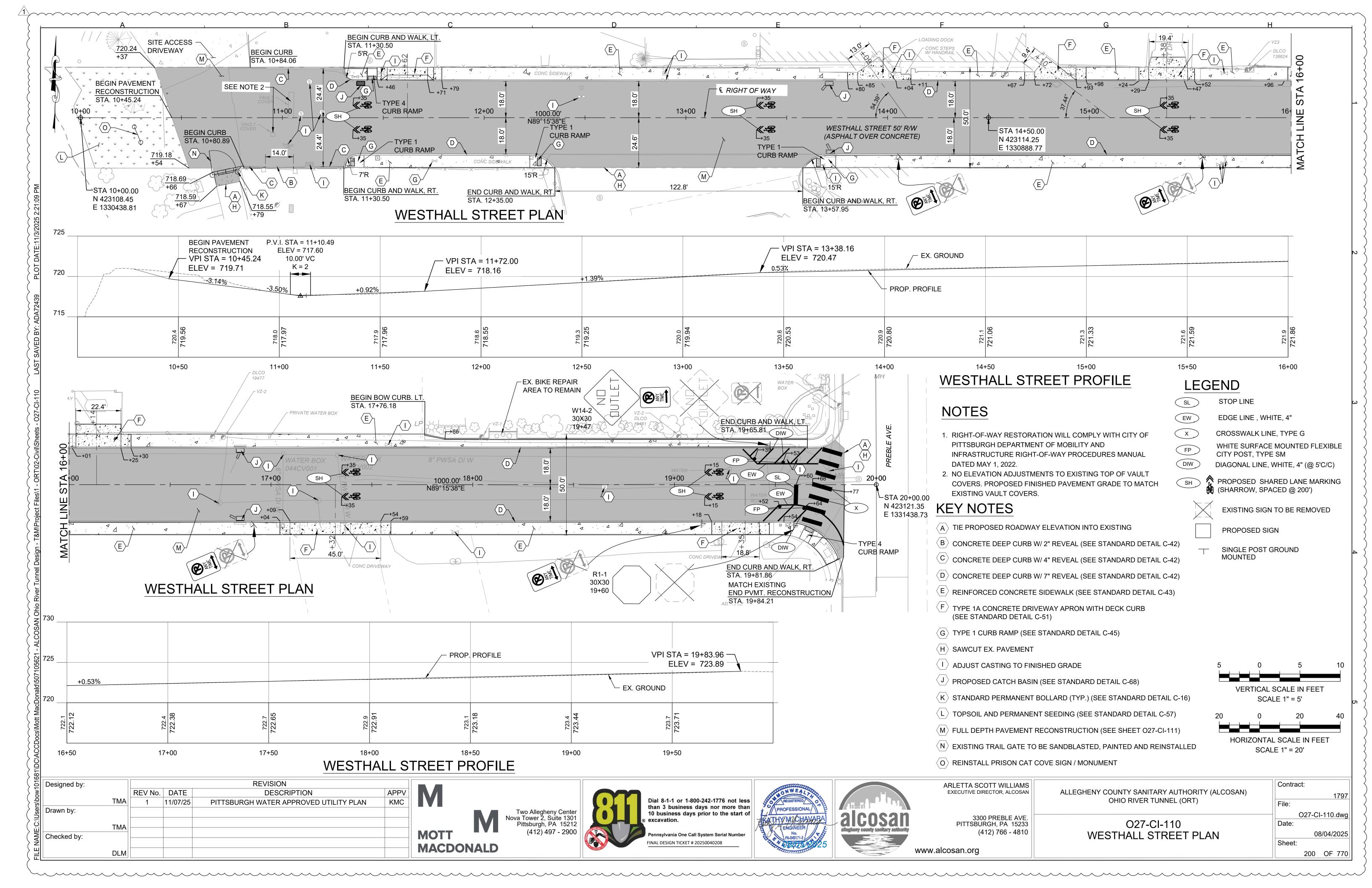
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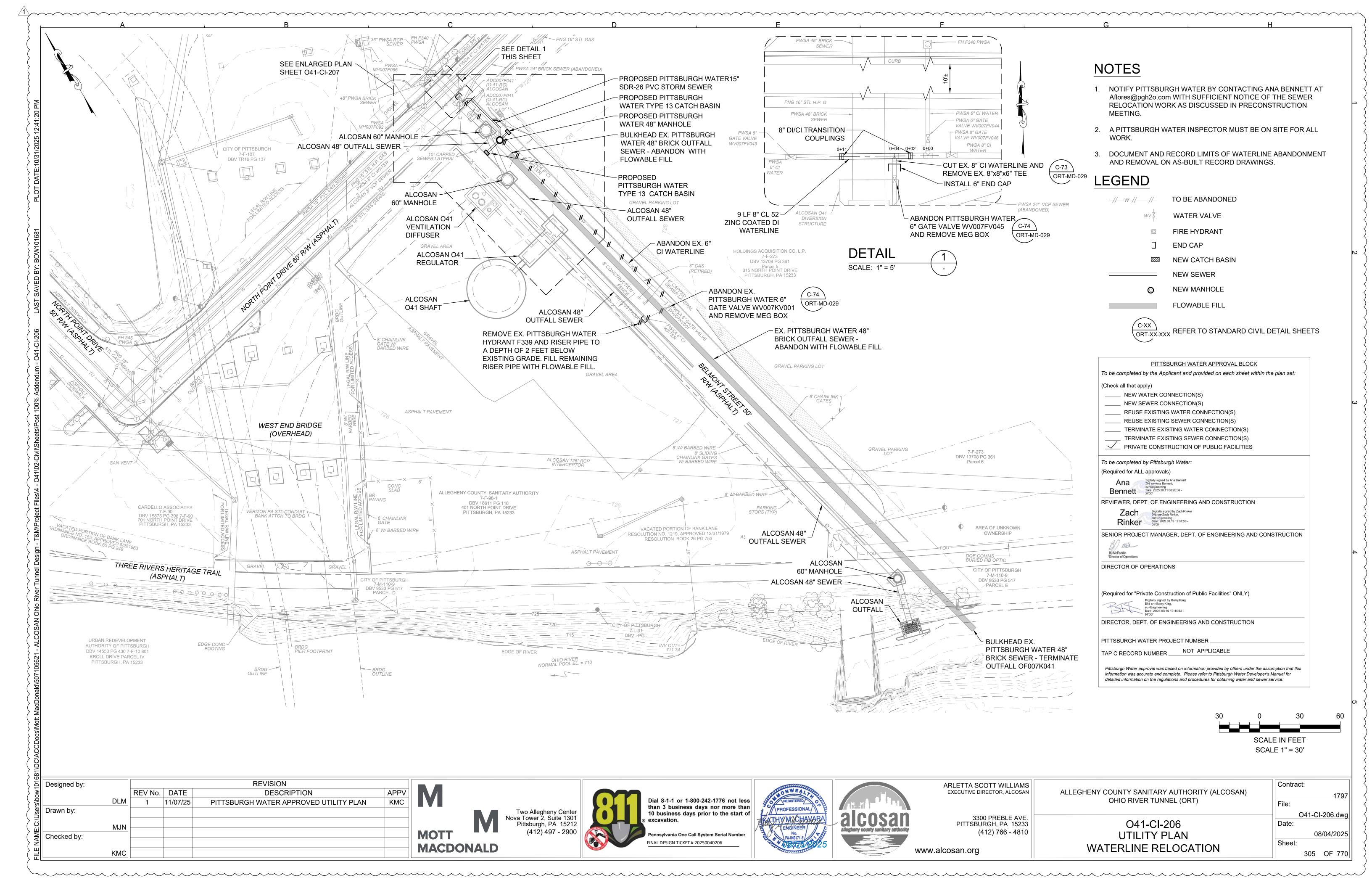
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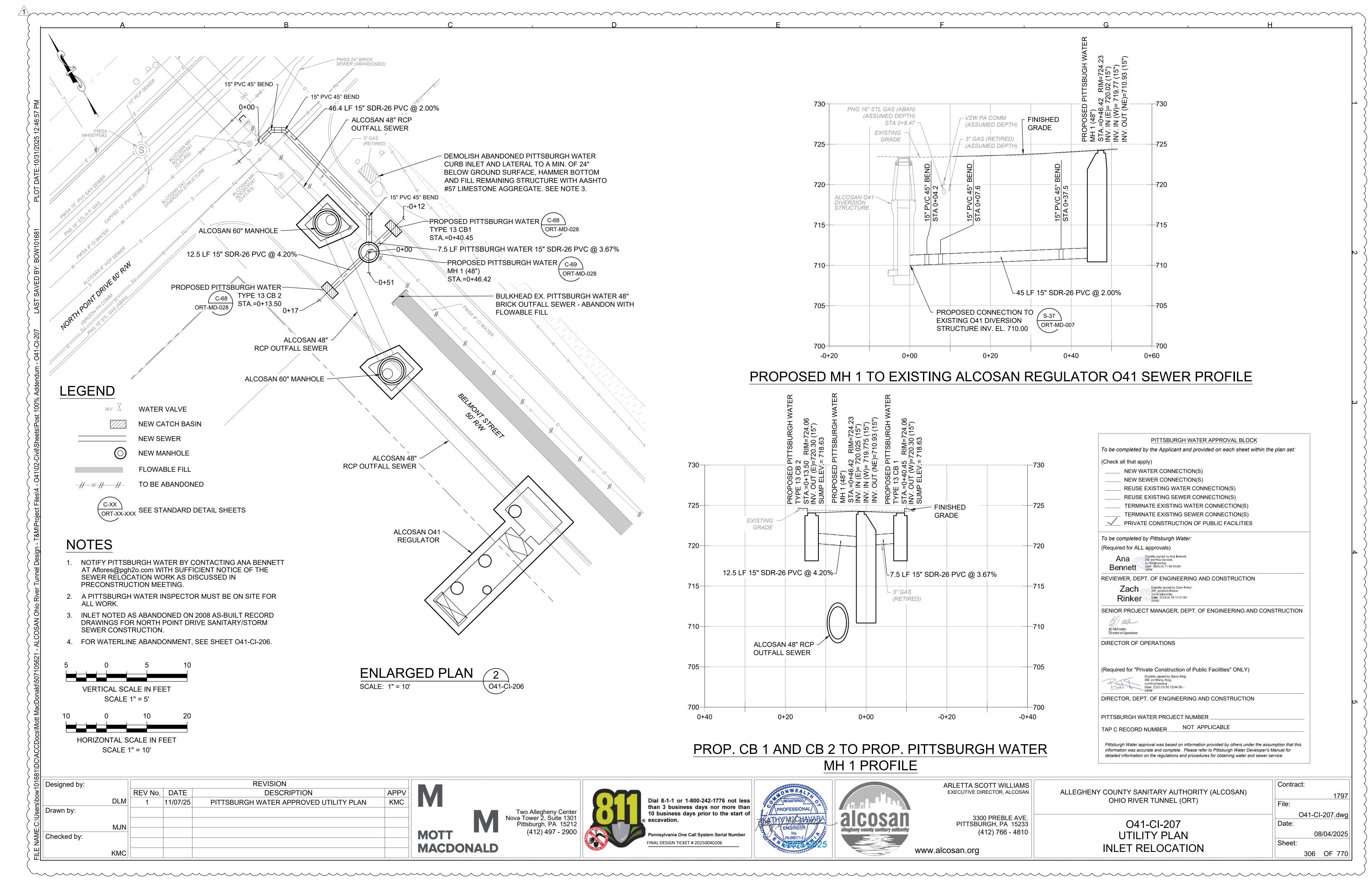
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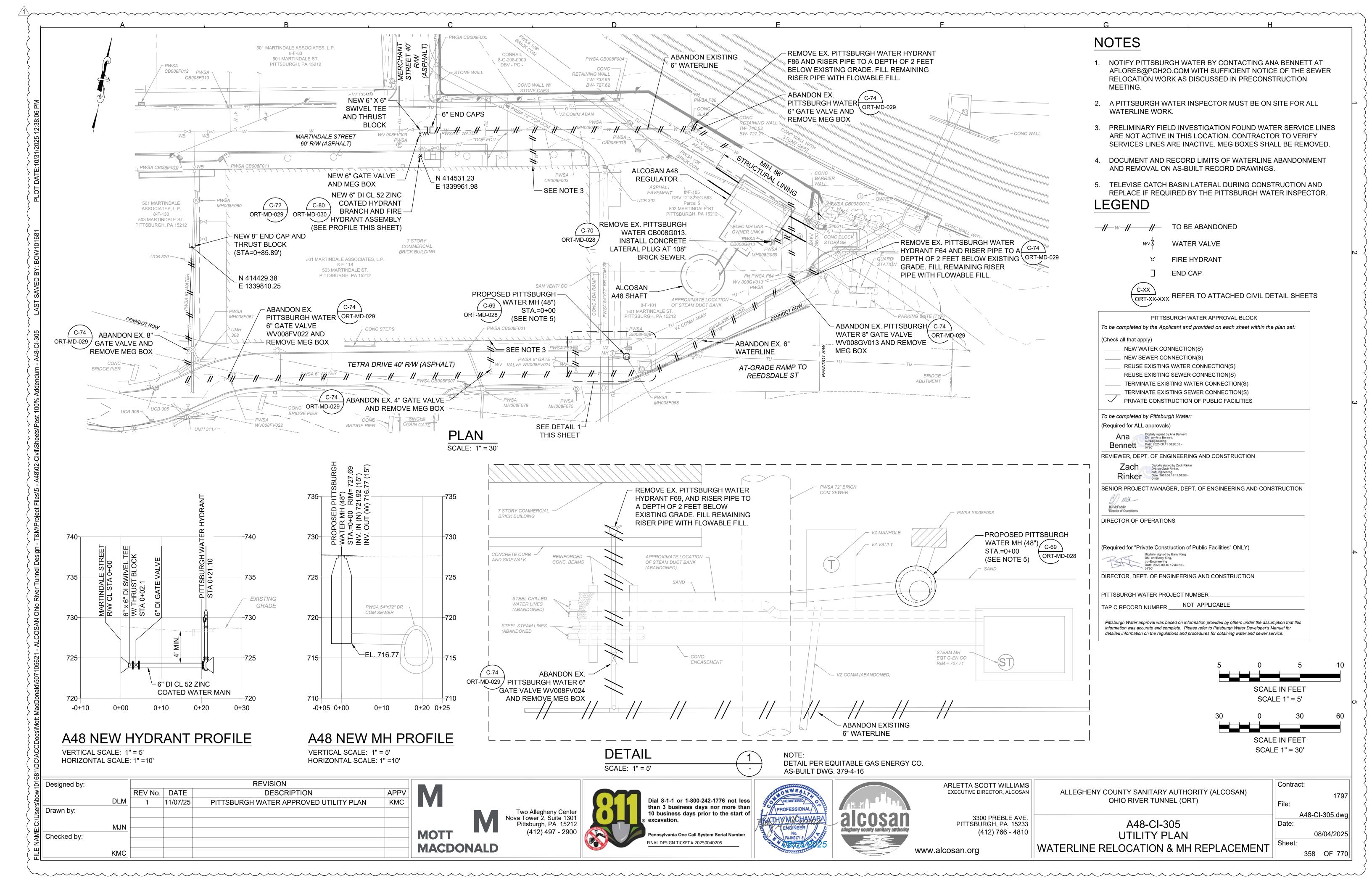


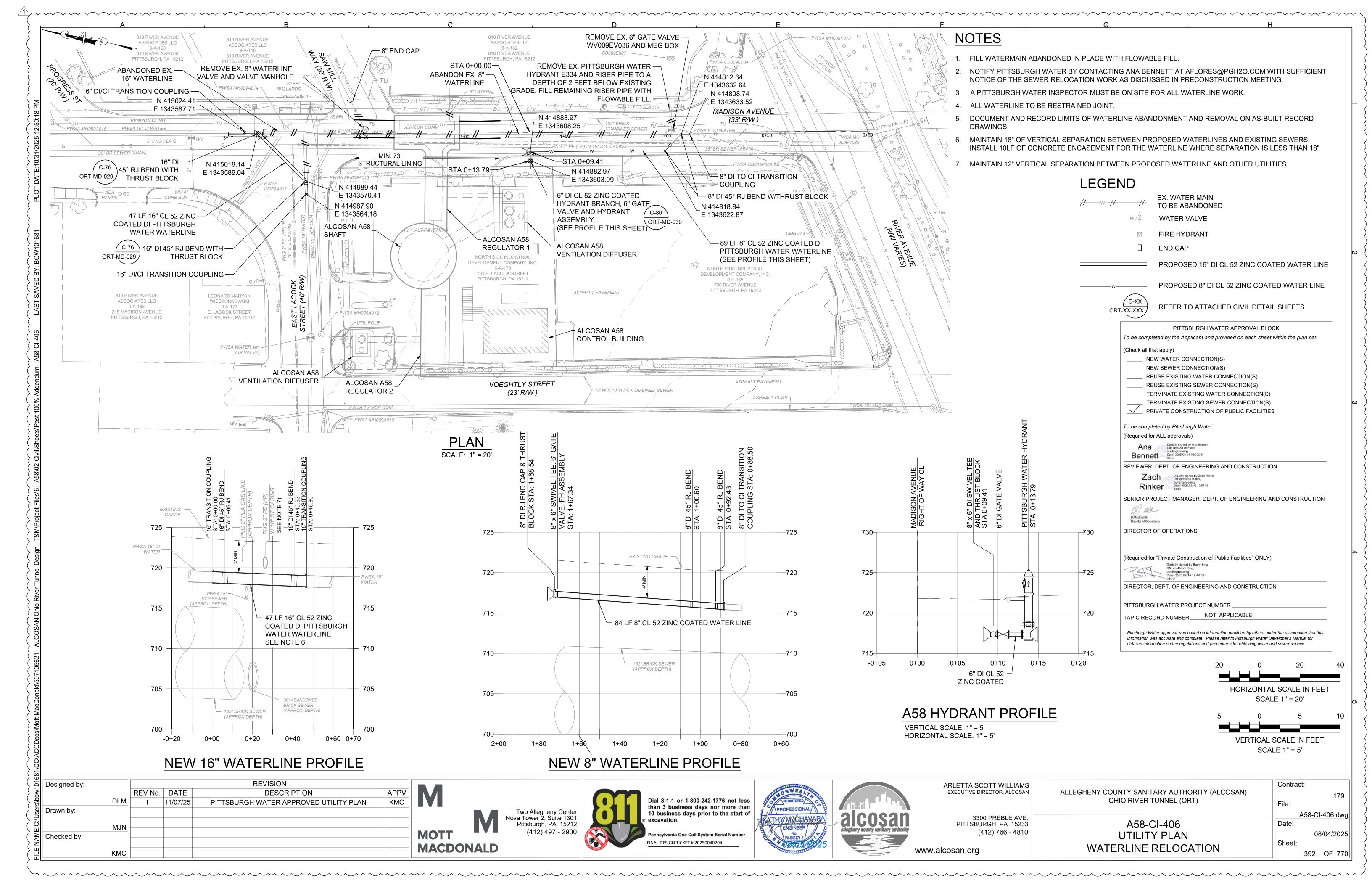


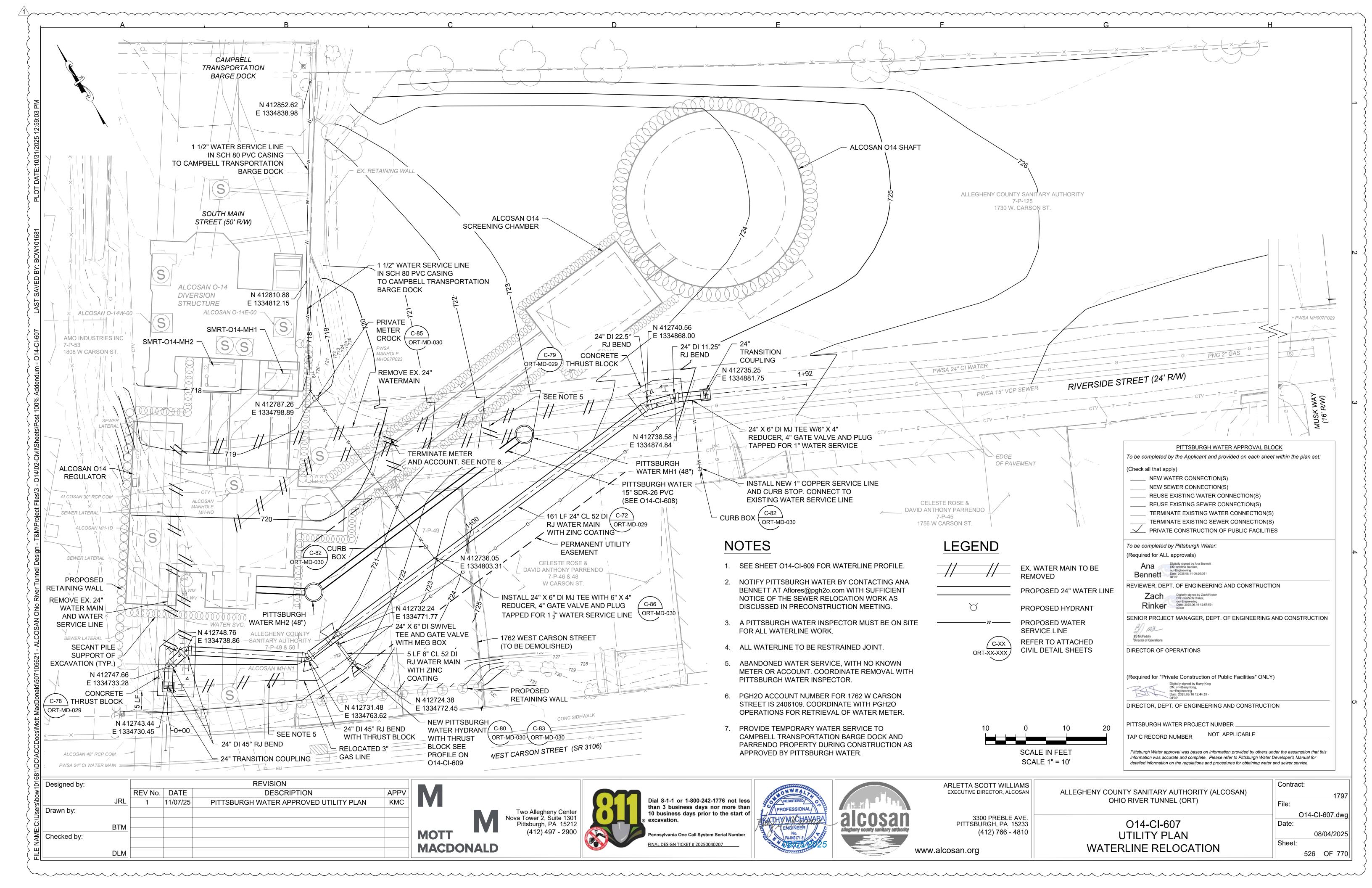


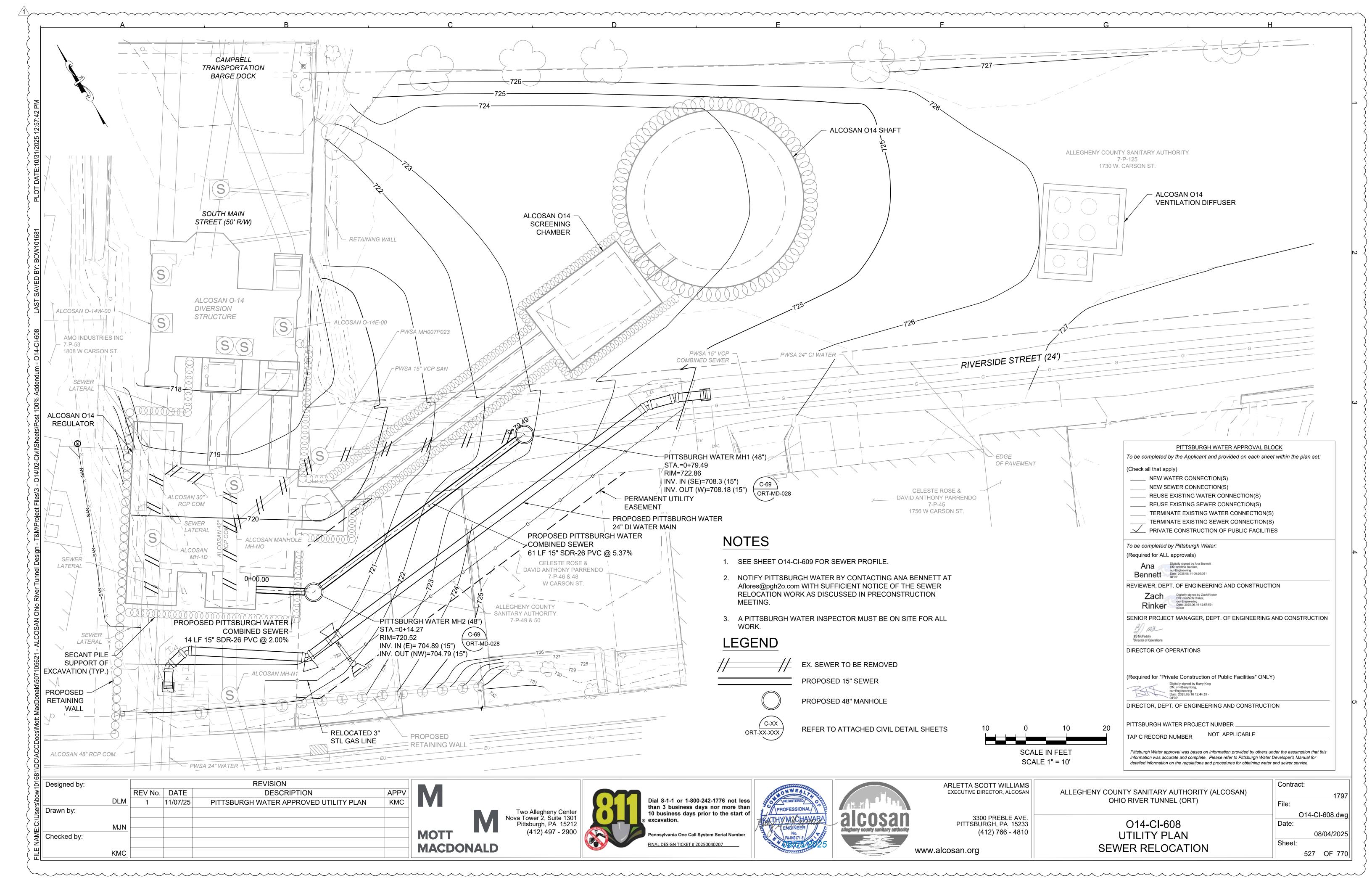


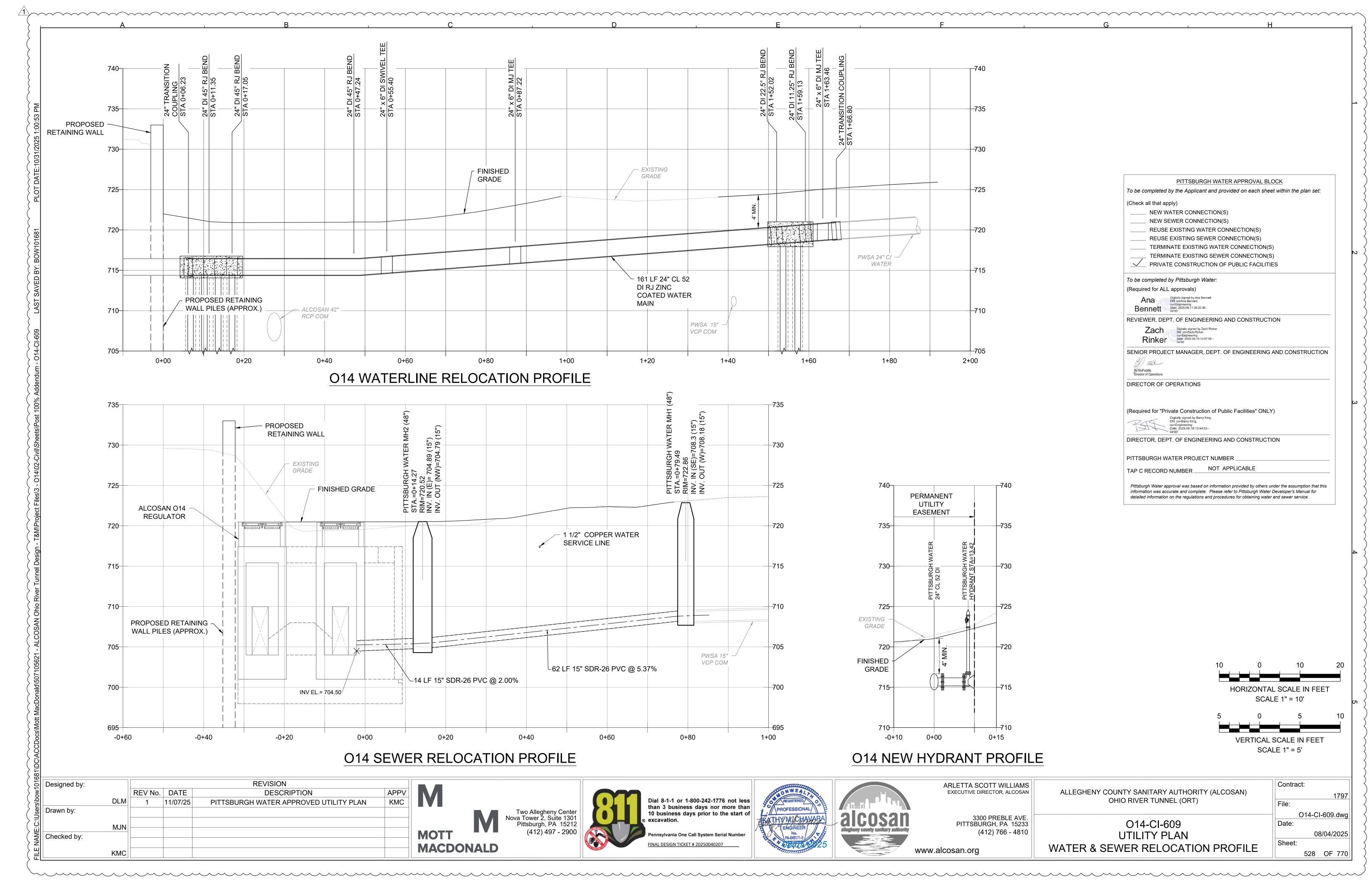


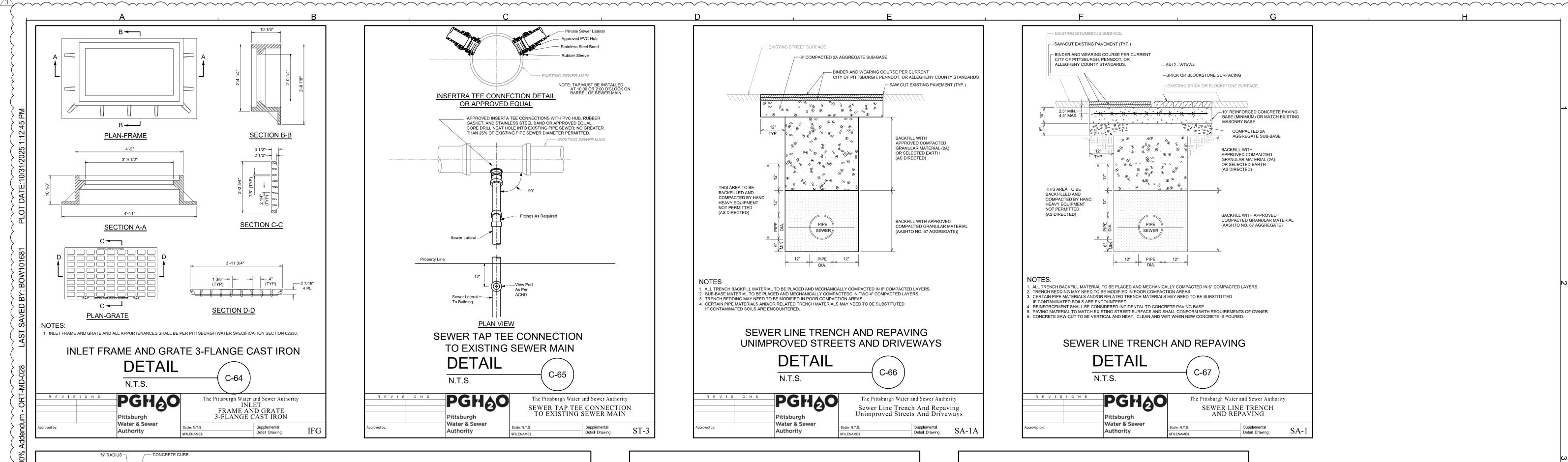


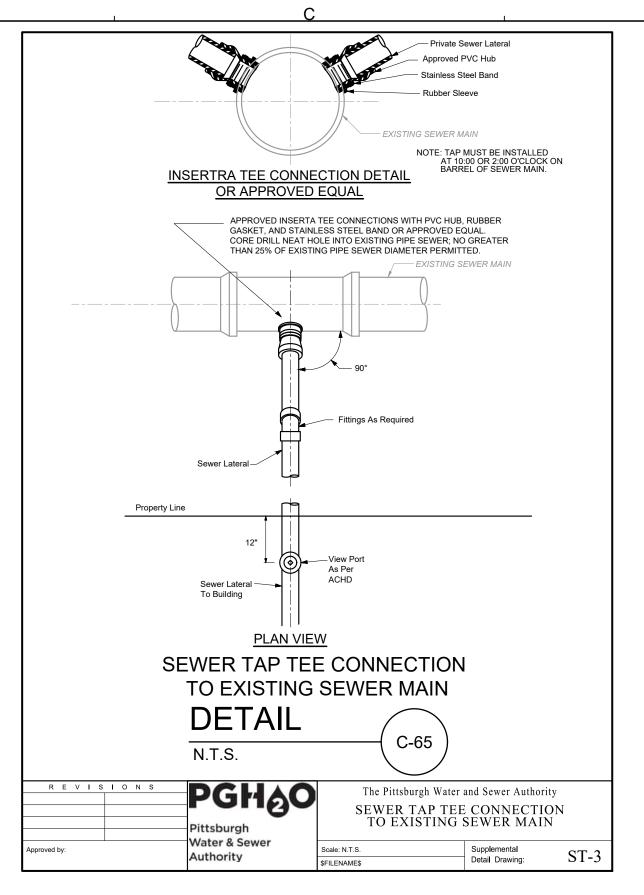


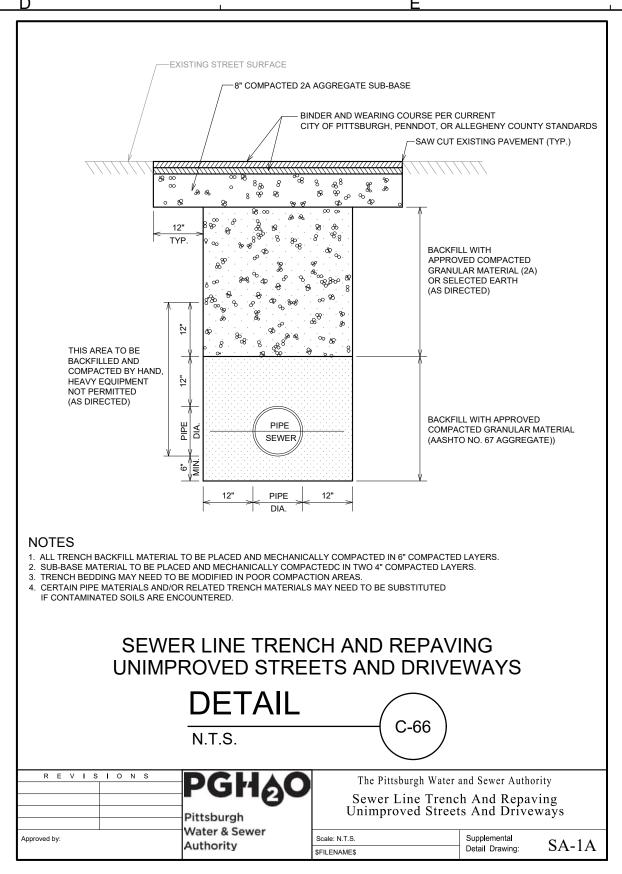


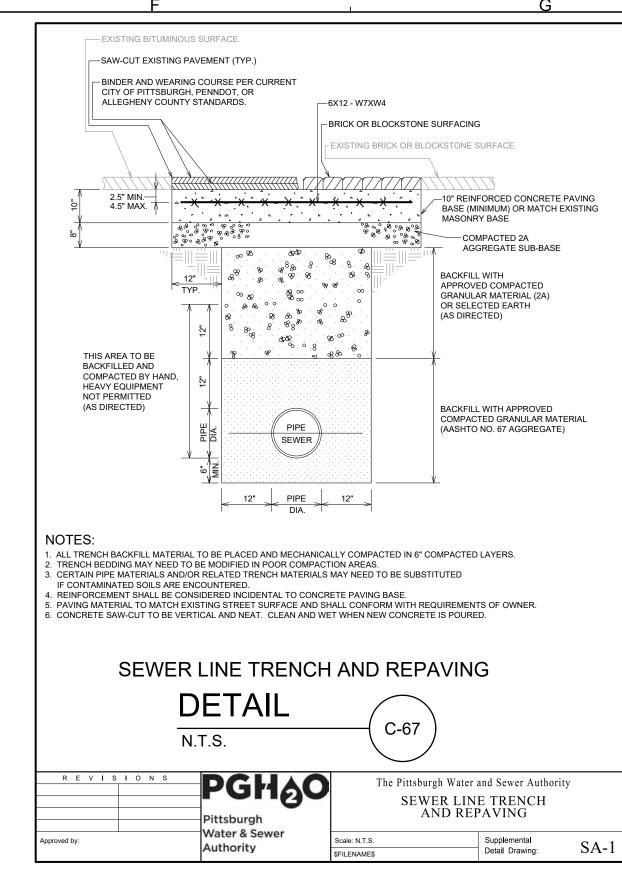


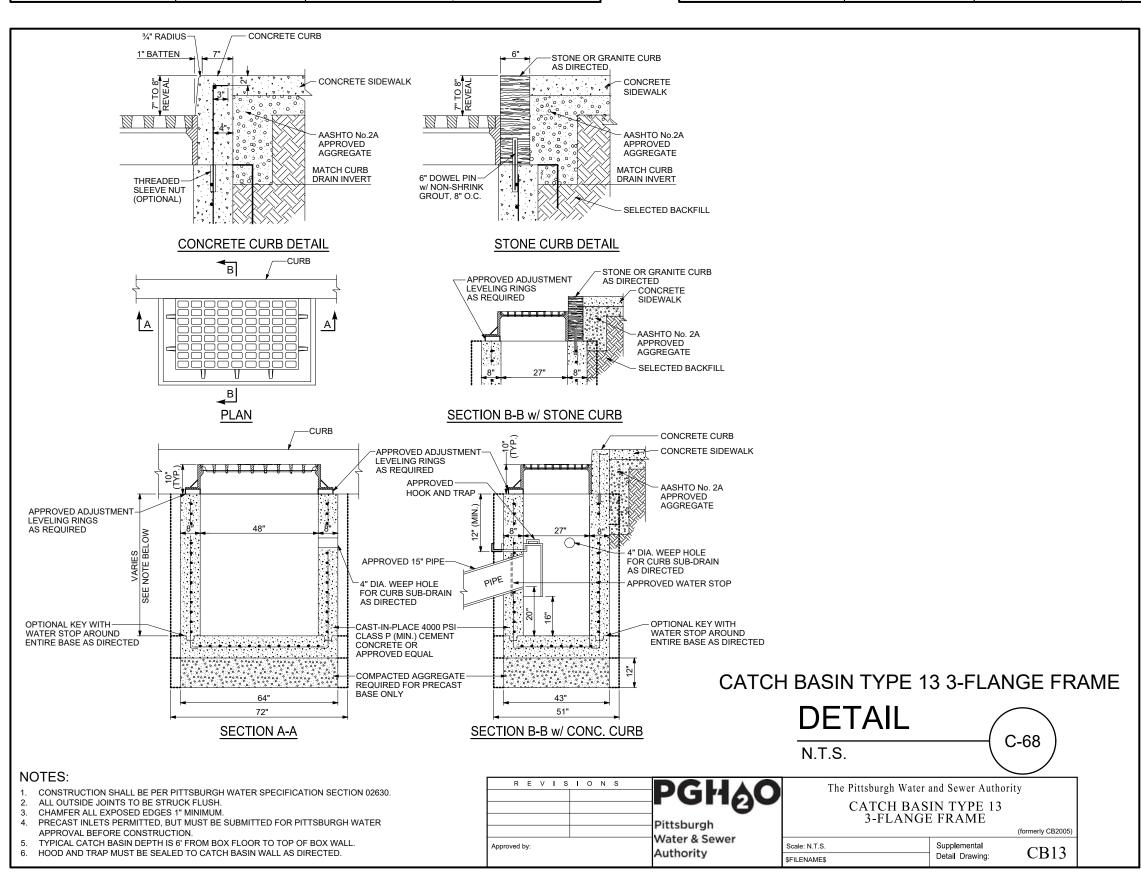


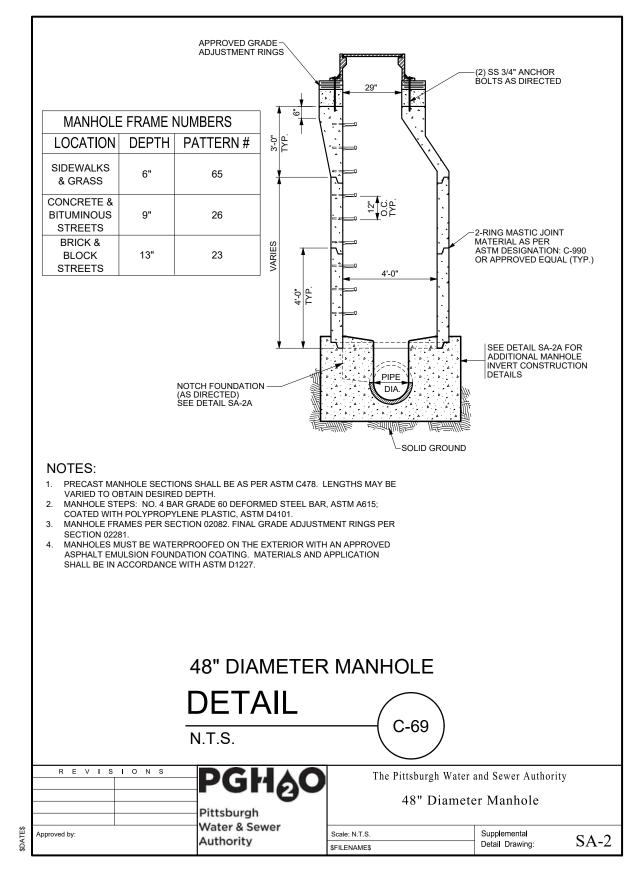


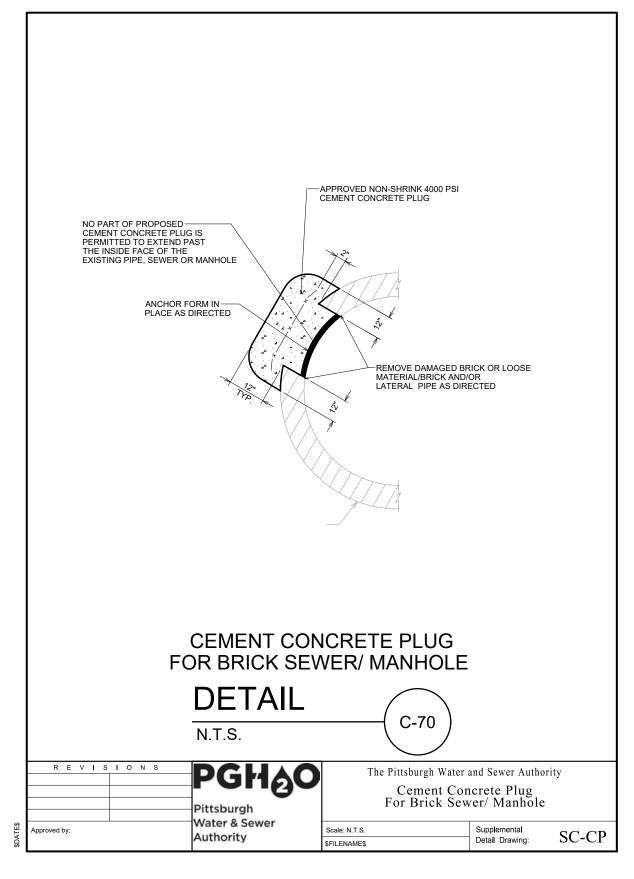


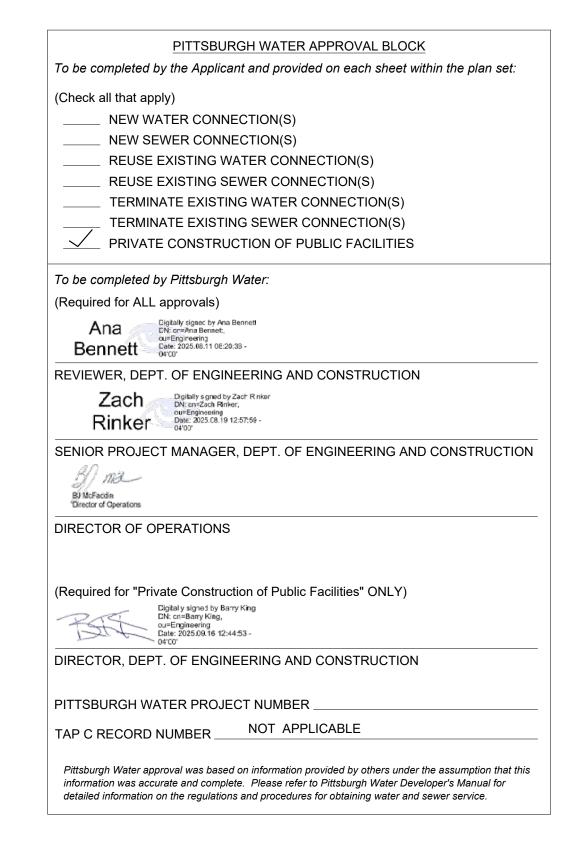


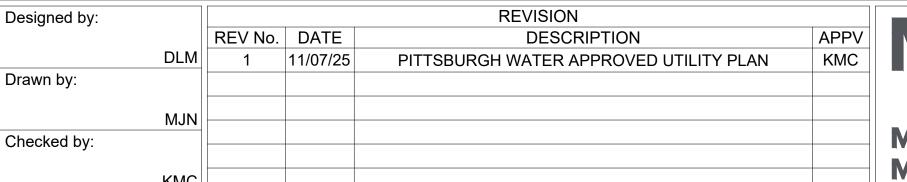




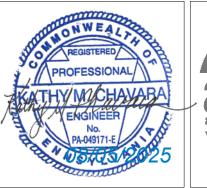








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ORT-MD-028 PITTSBURGH WATER RELOCATION DETAILS SHEET 1 OF 3

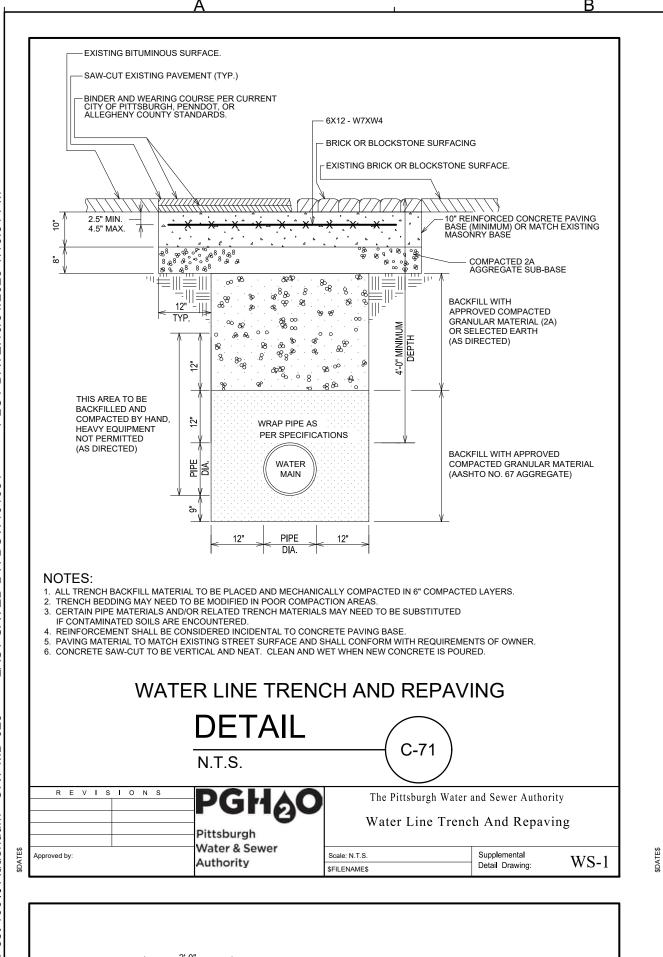
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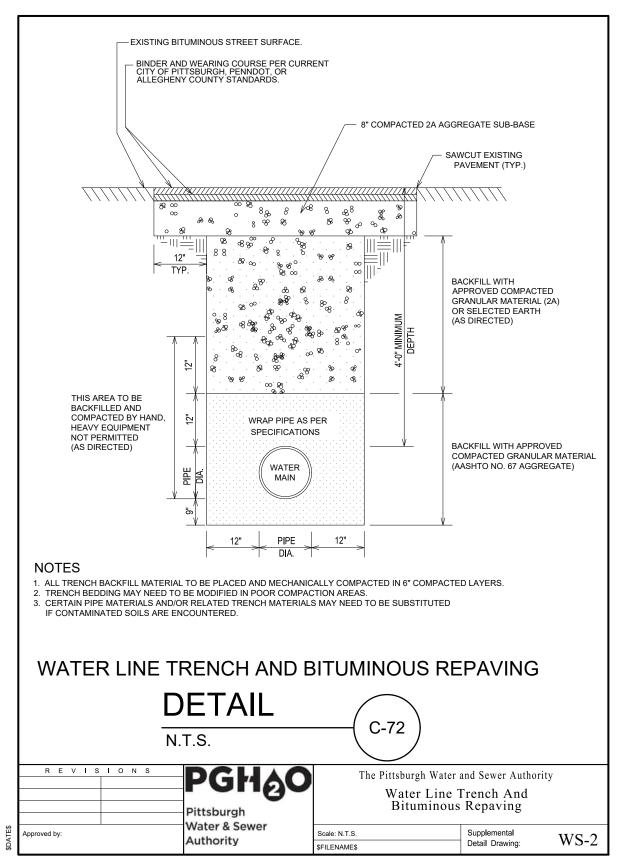
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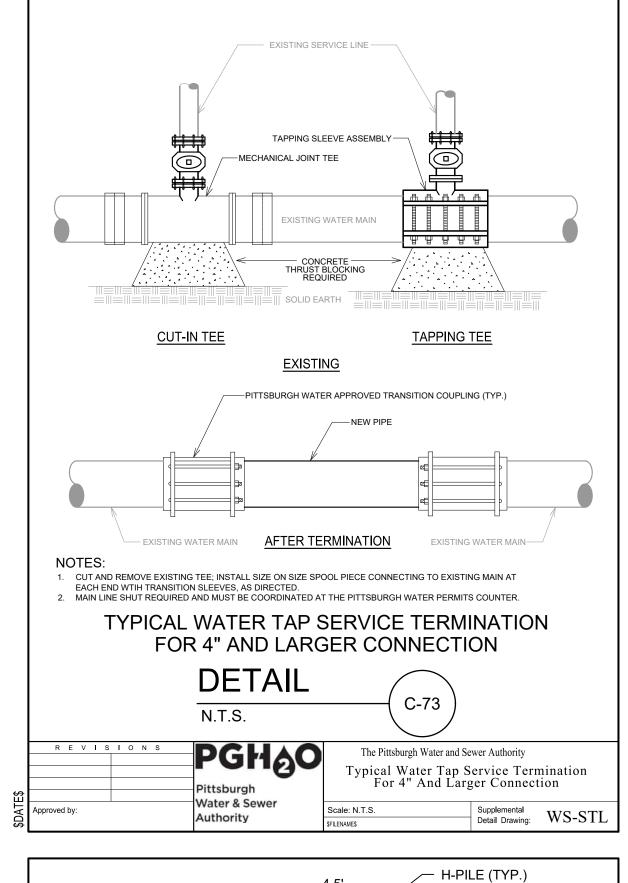
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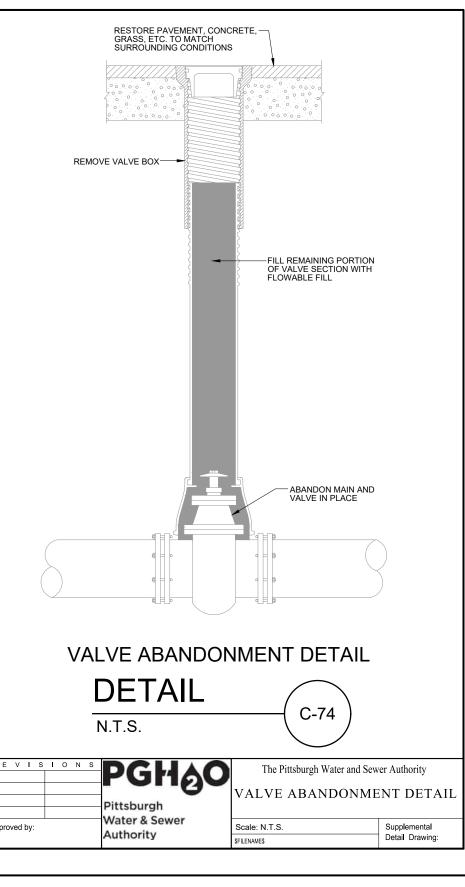
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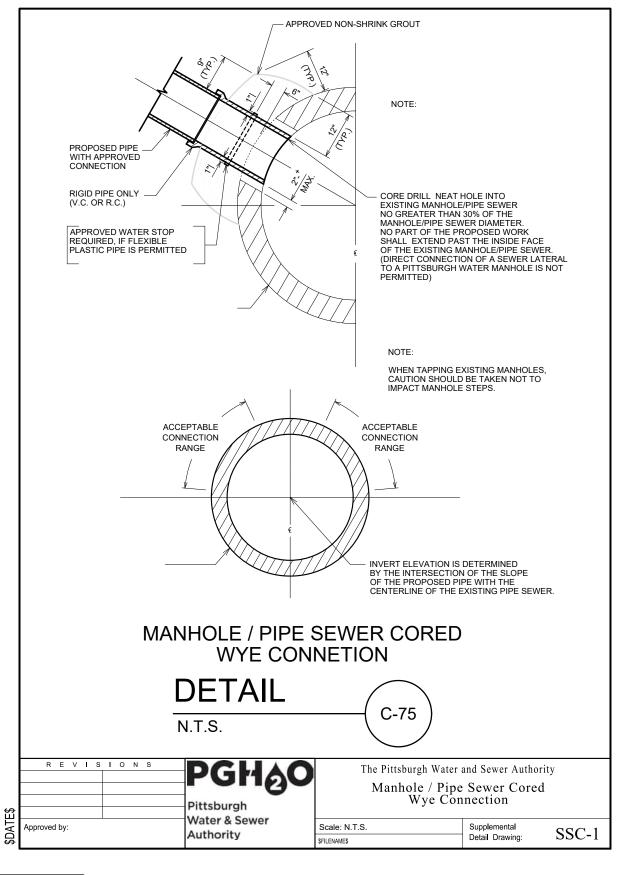
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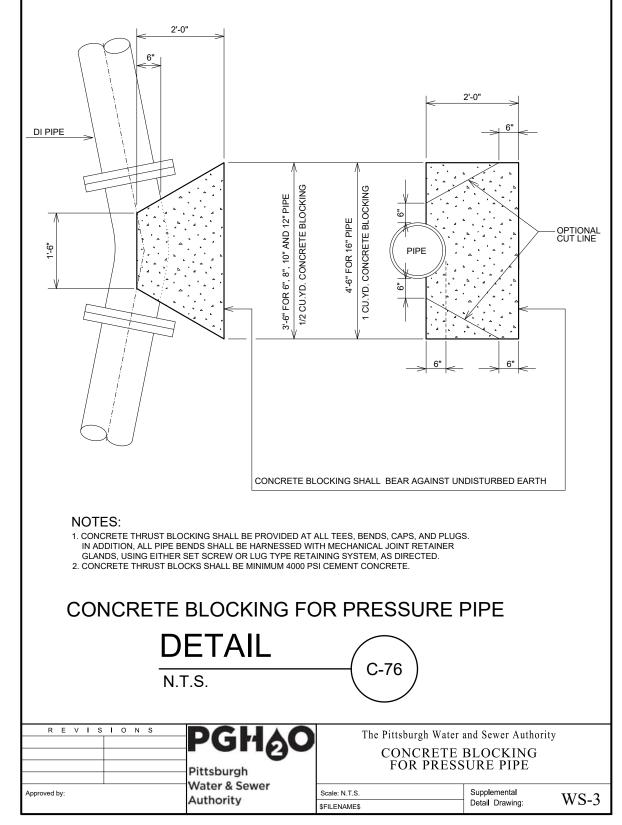


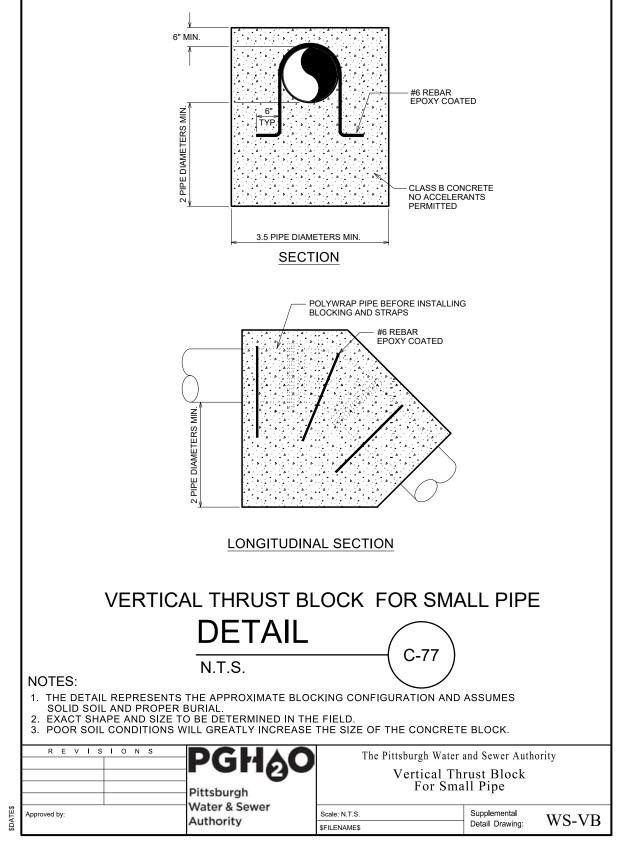


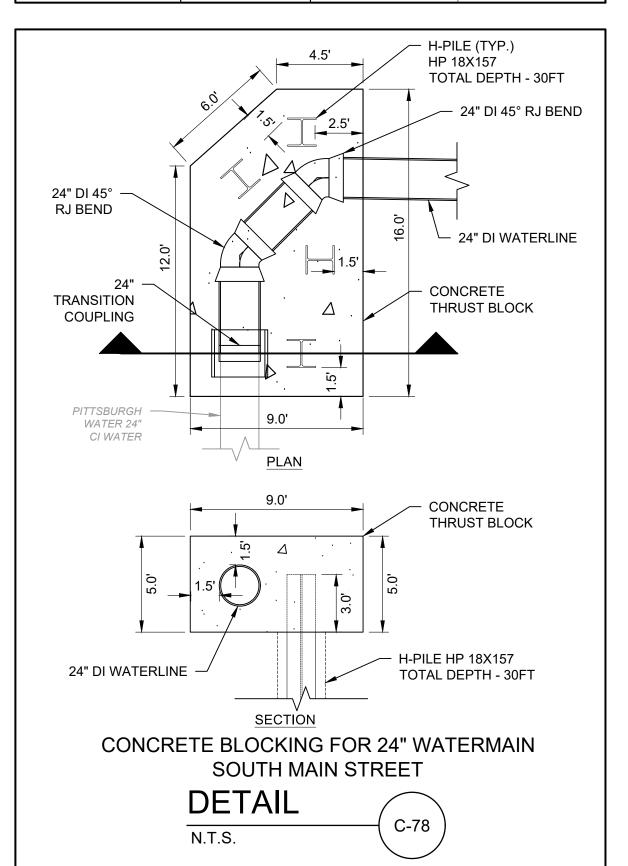


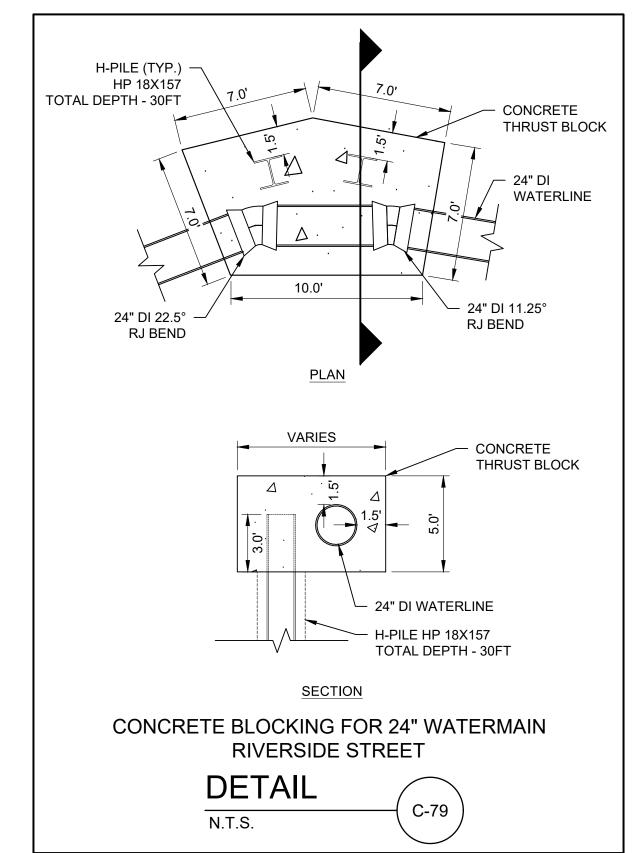


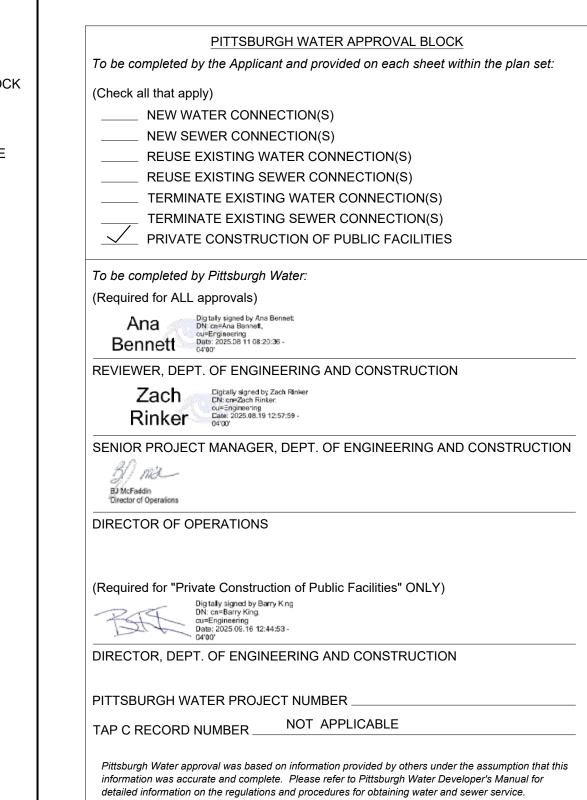


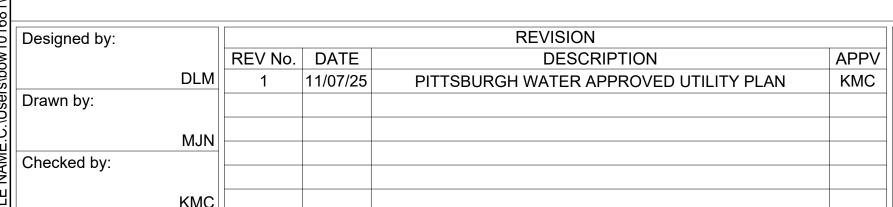












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ORT-MD-029
PITTSBURGH WATER RELOCATION DETAILS

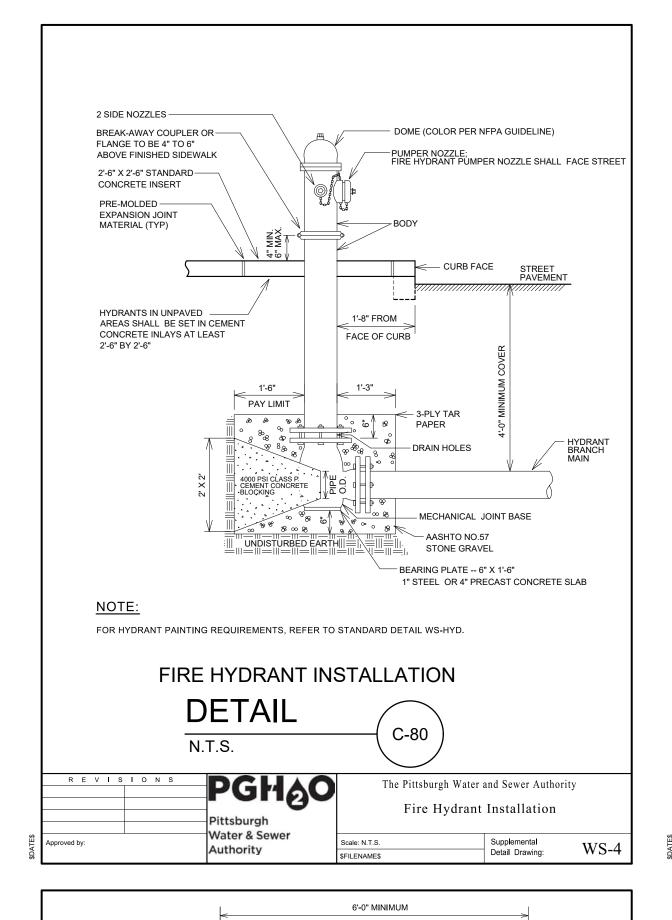
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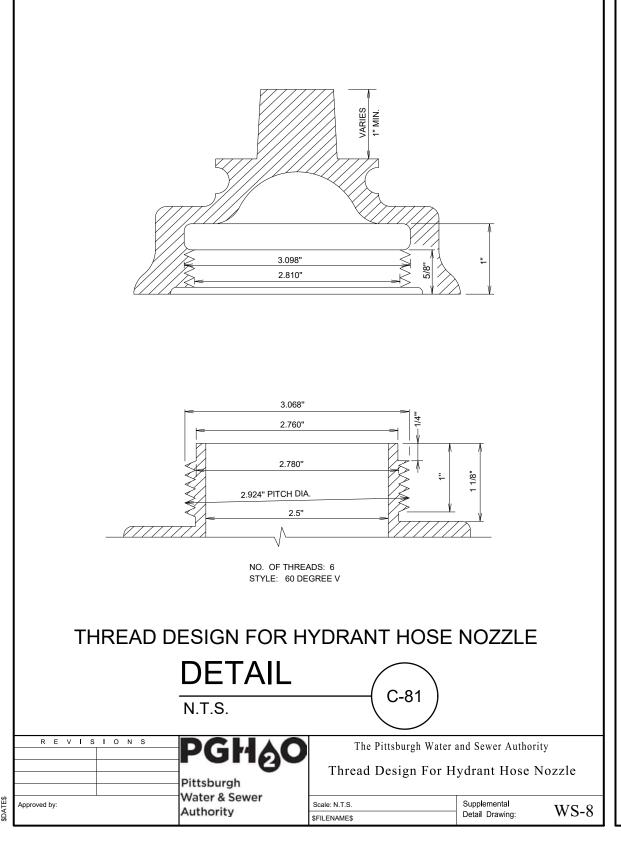
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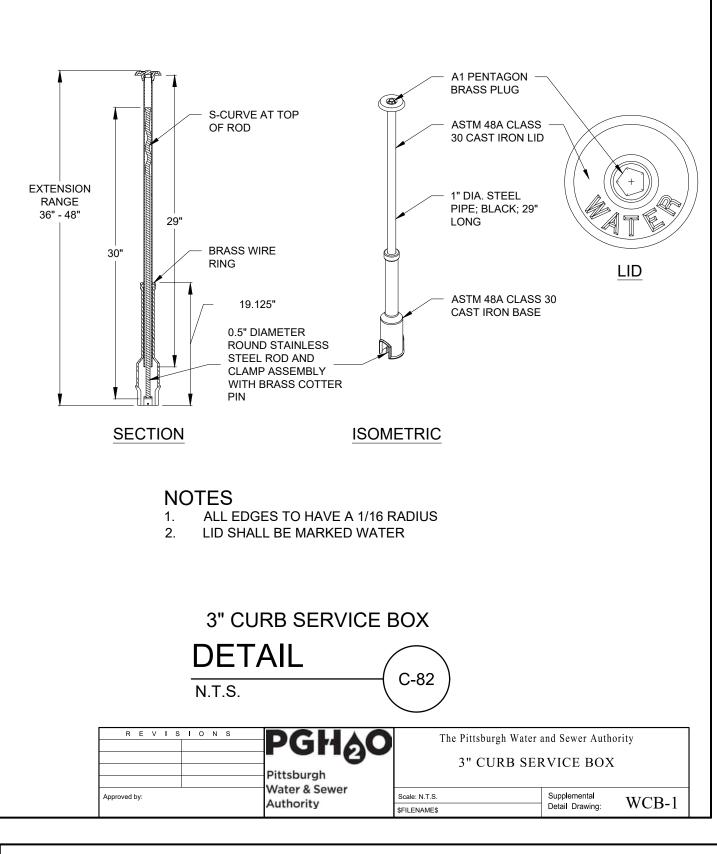
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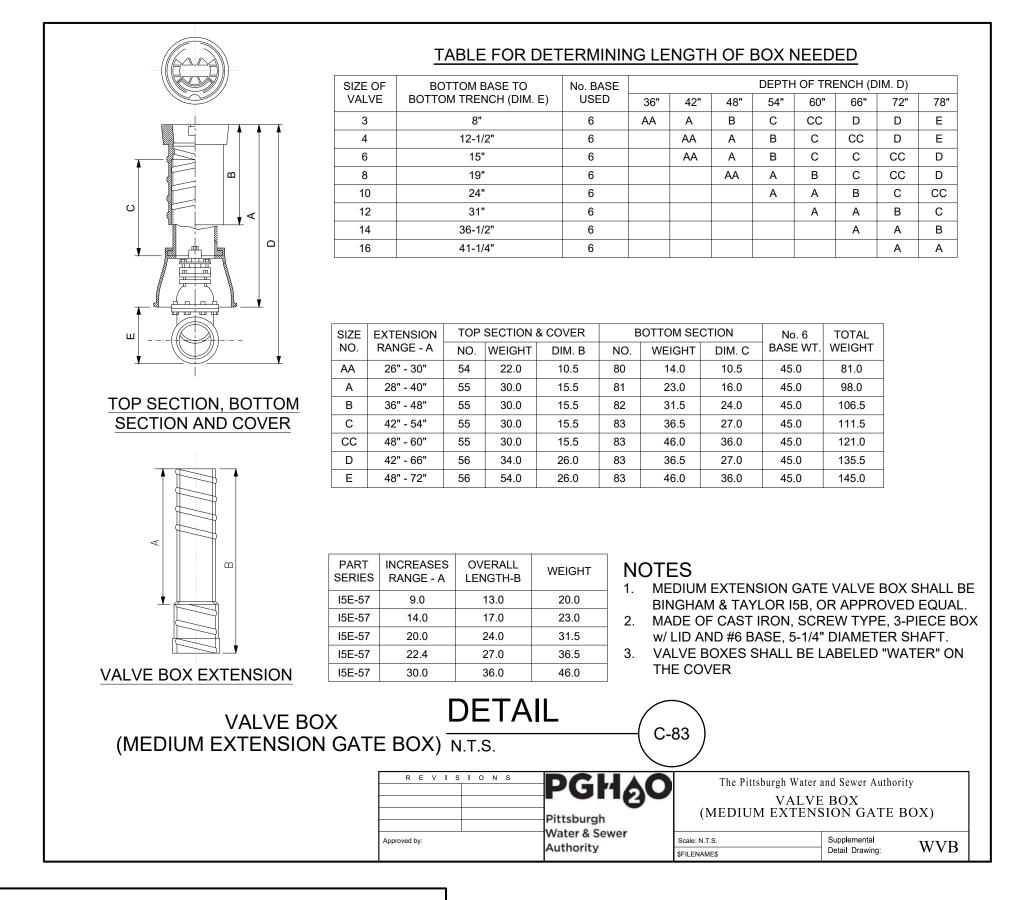
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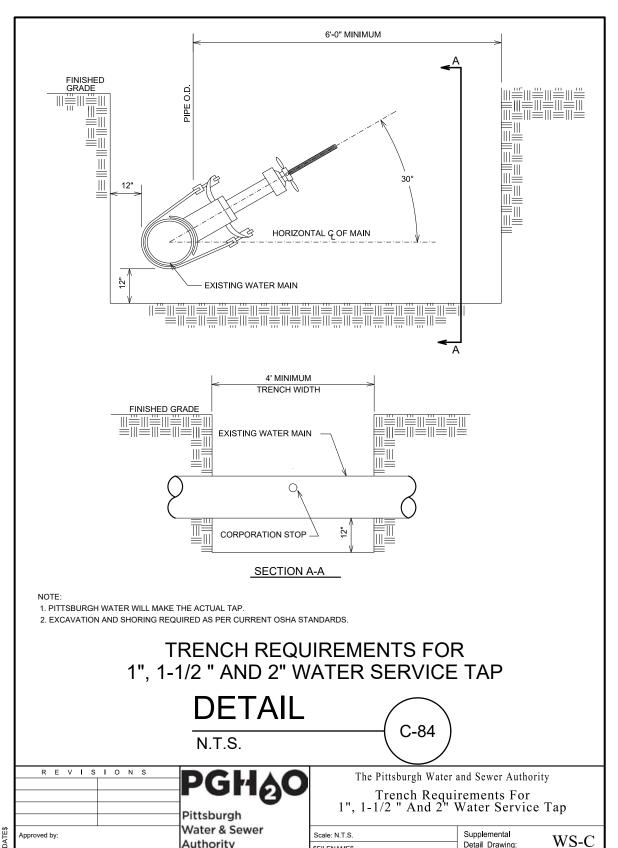
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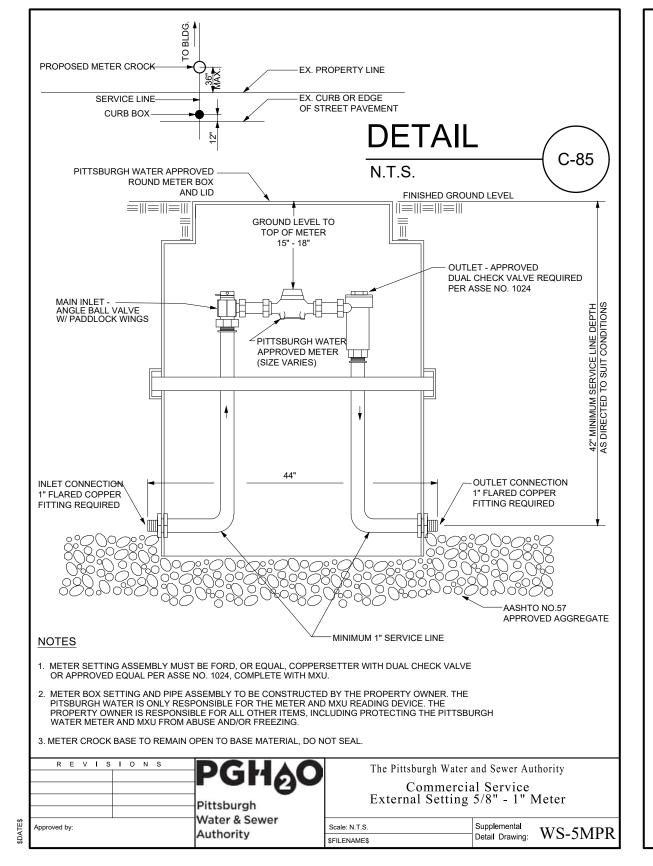


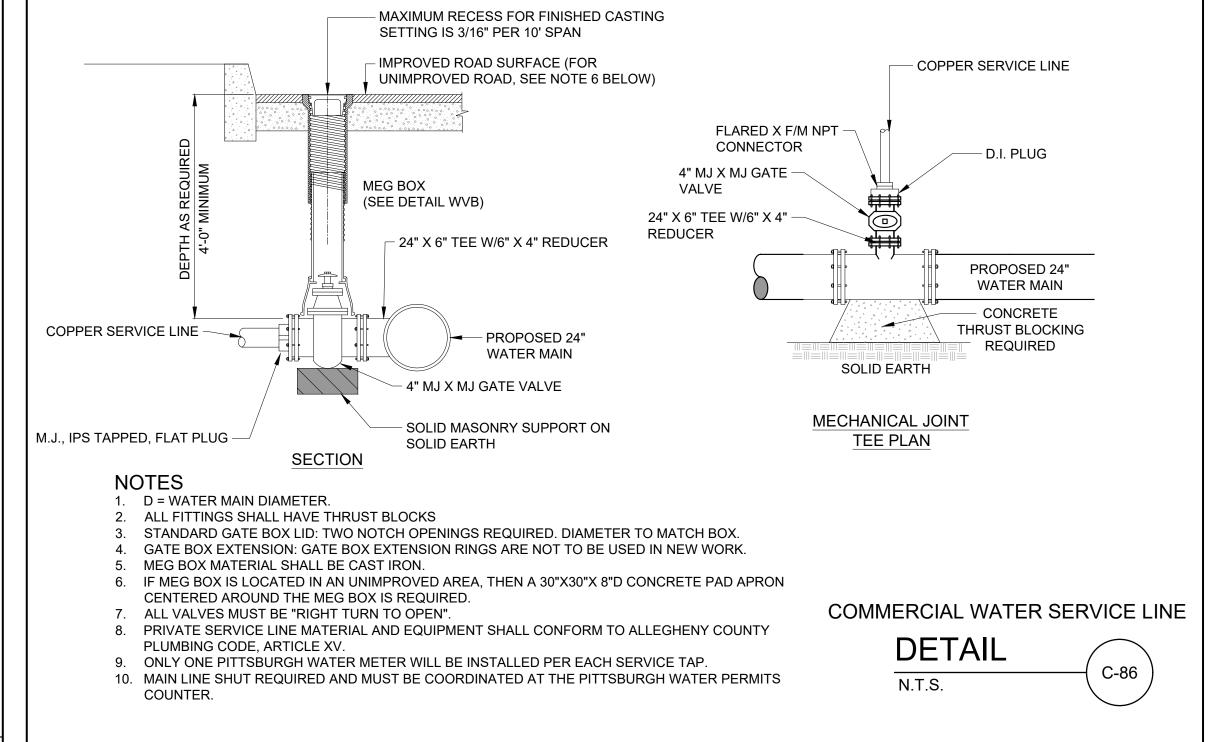


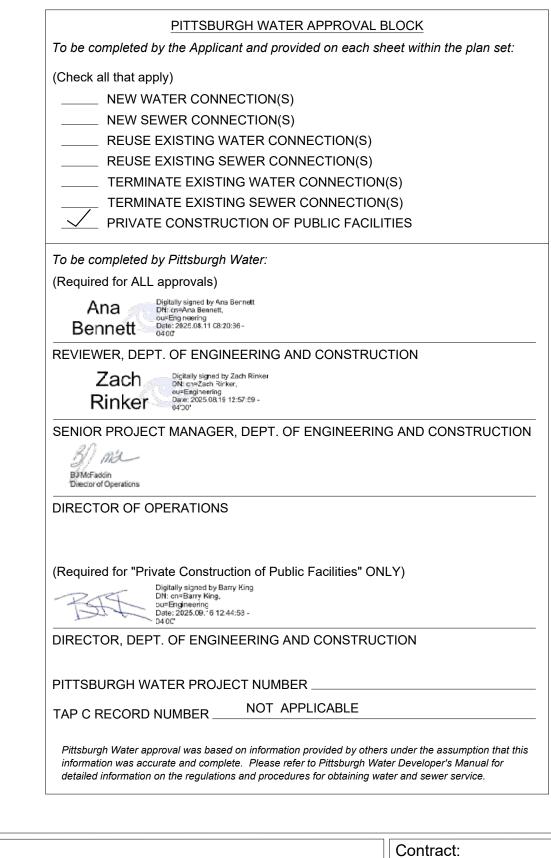


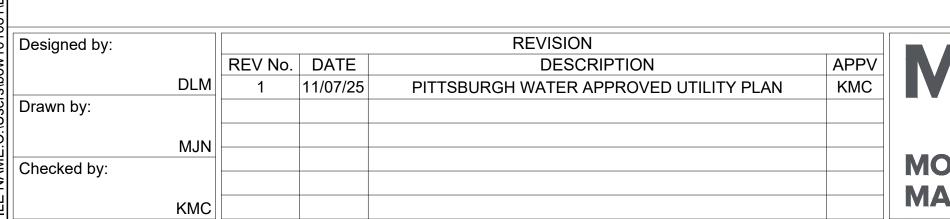


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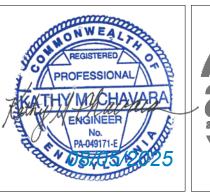






Detail Drawing:

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ORT-MD-030 PITTSBURGH WATER RELOCATION DETAILS SHEET 3 OF 3

OHIO RIVER TUNNEL (ORT)

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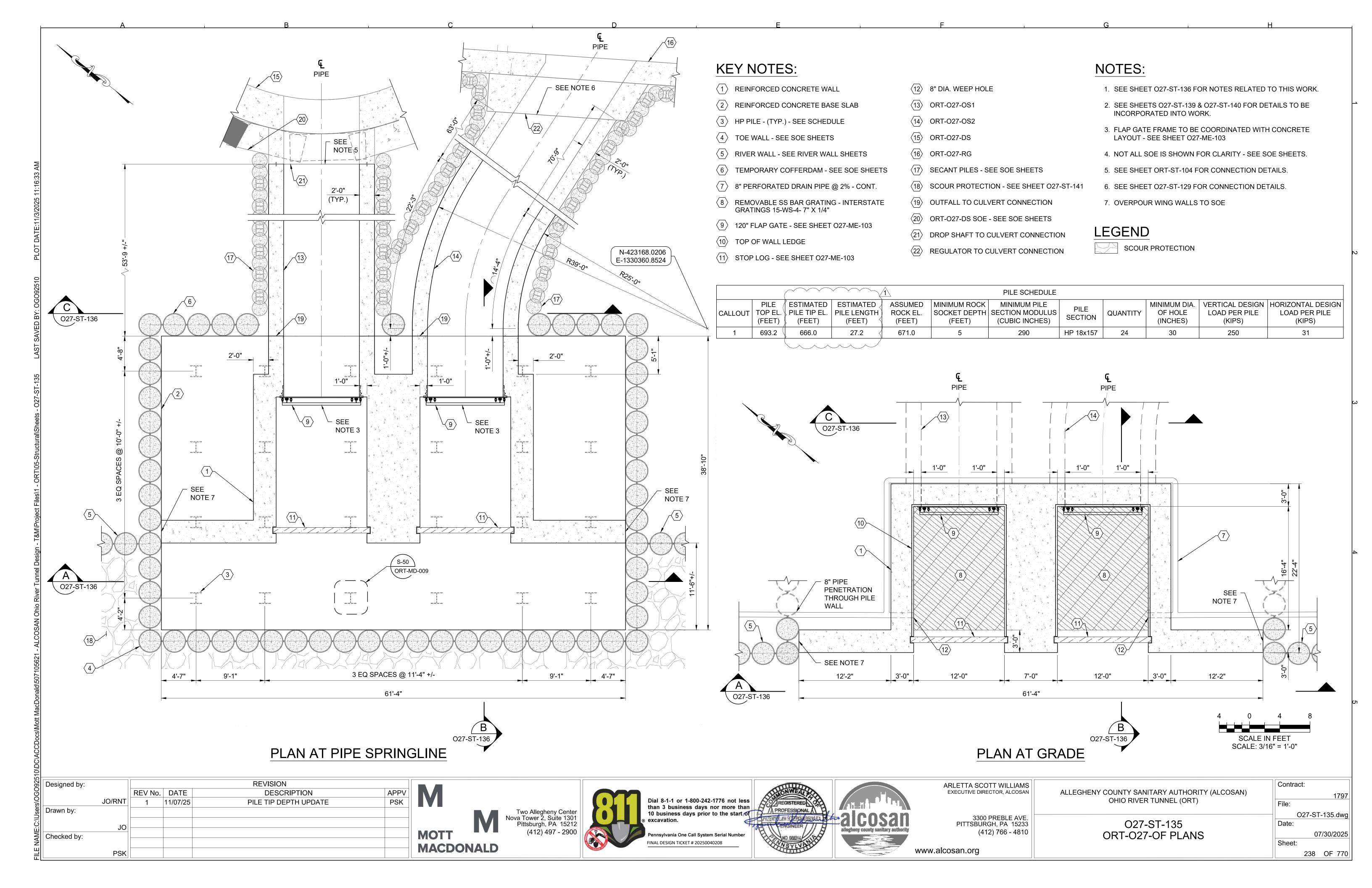
08/04/2025 Sheet: 677 OF 770

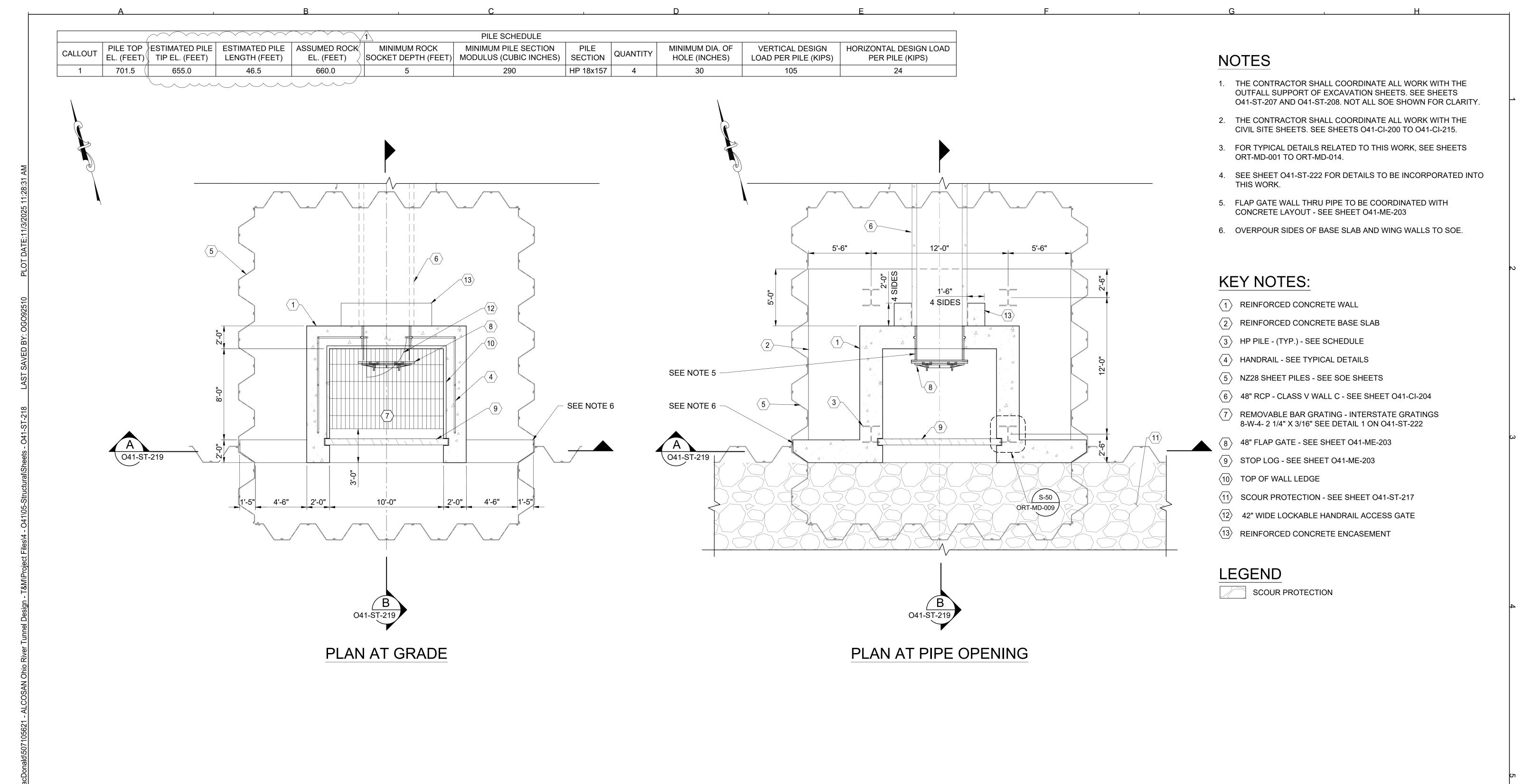
Addendum No. 6

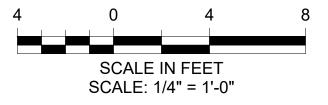
Attachment D

APPENDIX B – CONTRACT DRAWINGS

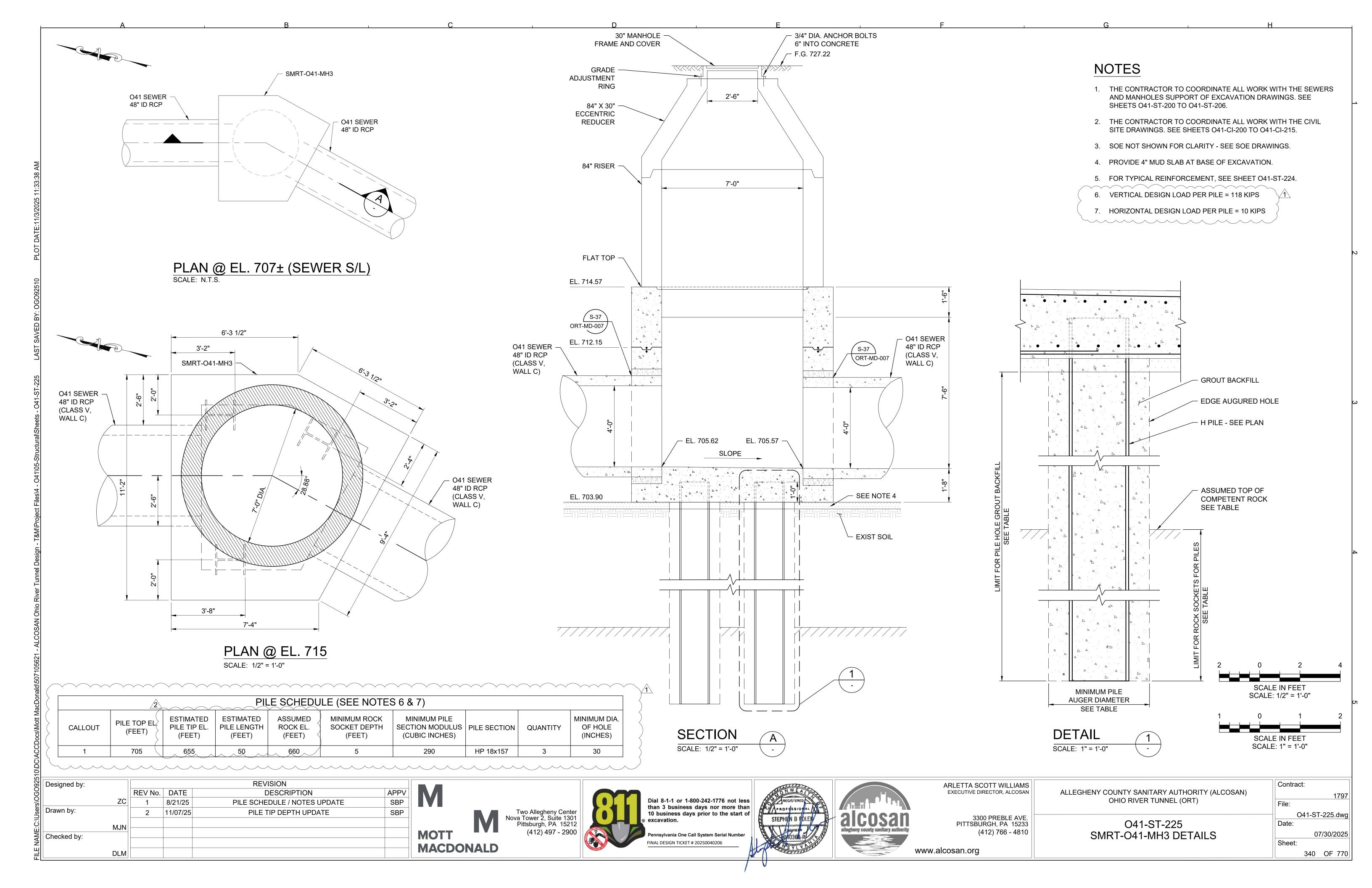
- Revised O27-ST-135 (Sheet 238 of 770) (1 page)
- Revised O41-ST-218 (Sheet 333 of 770) (1 page)
- Revised O41-ST-225 (Sheet 340 of 770) (1 page)
- Revised A58-ST-417 (Sheet 418 of 770) (1 page)
- Revised O07-ST-707 (Sheet 506 of 770) (1 page)

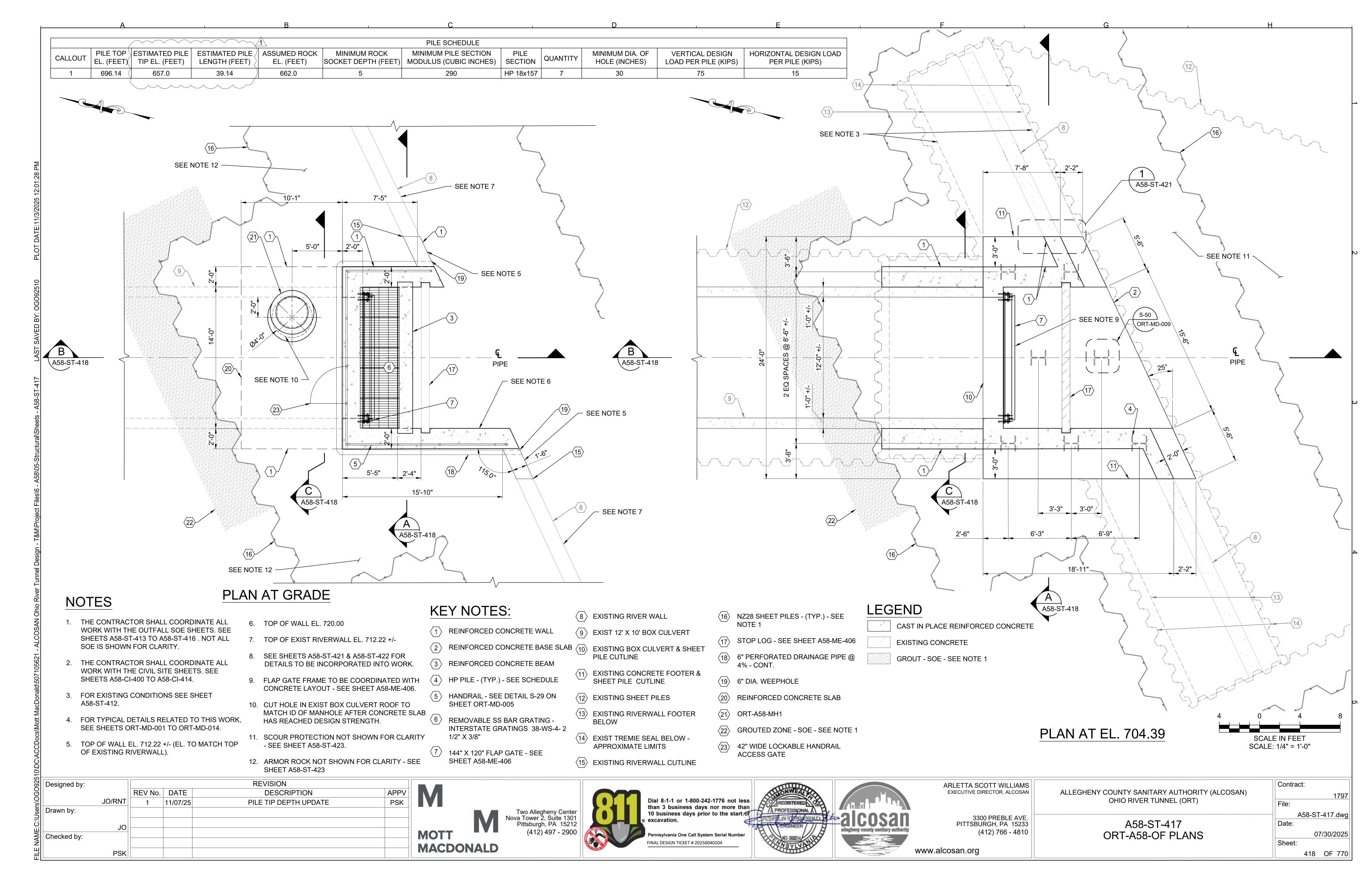


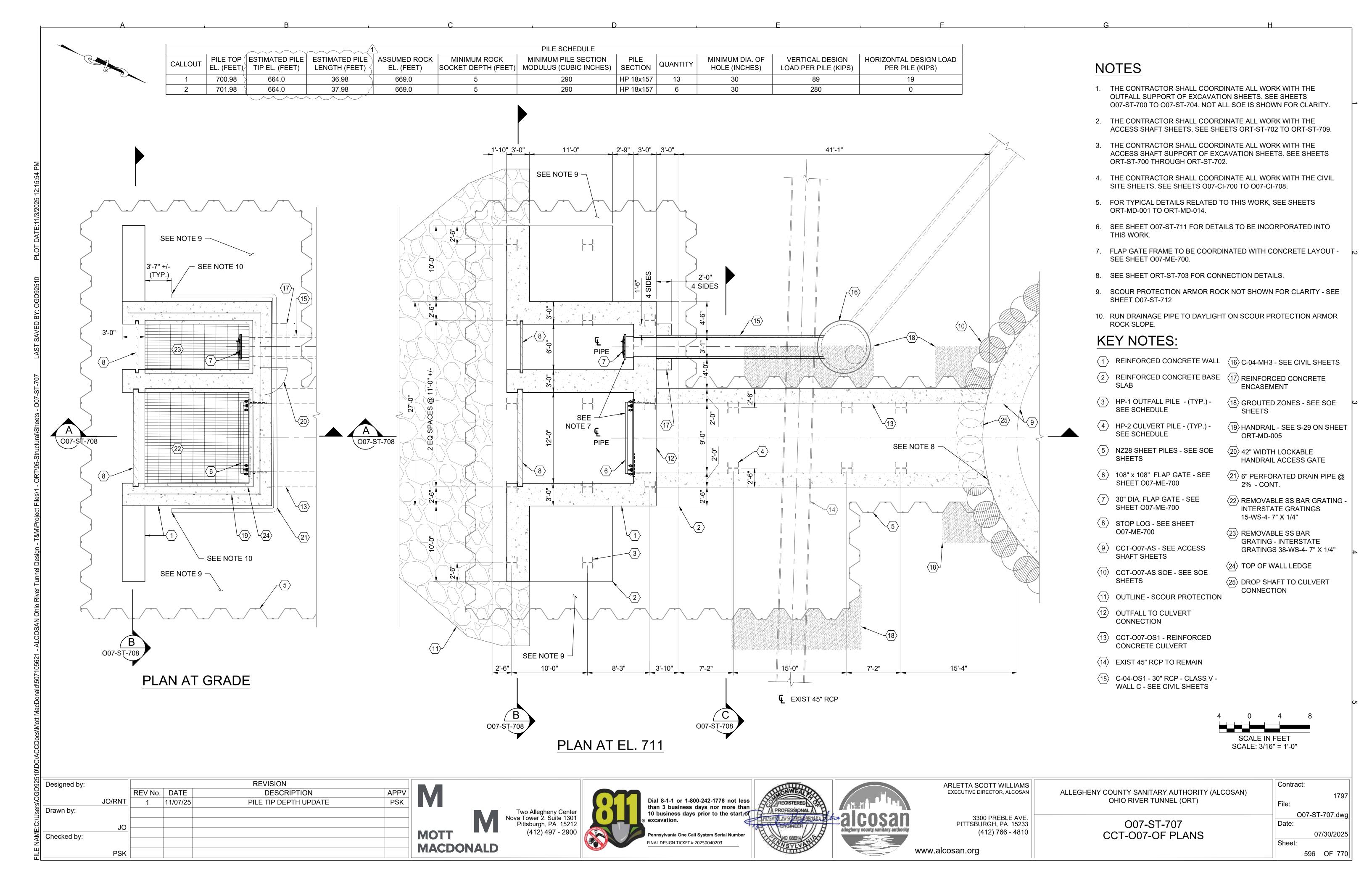




REVISION ARLETTA SCOTT WILLIAMS
EXECUTIVE DIRECTOR, ALCOSAN Contract: Designed by: APPV REV No. DATE DESCRIPTION ALLEGHENY COUNTY SANITARY AUTHORITY (ALCOSAN) Dial 8-1-1 or 1-800-242-1776 not less than 3 business days nor more than PSK OHIO RIVER TUNNEL (ORT) JO/RNT 1 11/07/25 PILE TIP DEPTH UPDATE File: Drawn by: Two Allegheny Center Nova Tower 2, Suite 1301 Pittsburgh, PA 15212 10 business days prior to the start of O41-ST-218.dwg 3300 PREBLE AVE. PITTSBURGH, PA 15233 O41-ST-218 JO (412) 497 - 2900 (412) 766 - 4810 MOTT SMRT-O41-OF PLANS 07/30/2025 Checked by: FINAL DESIGN TICKET # 20250040206 Sheet: **MACDONALD** www.alcosan.org 333 OF 770 PSK







Addendum No. 6

Attachment E

APPENDIX E – SUPPLEMENTAL INFORMATION (FOR REFERENCE ONLY)

Section 5.8 - Drawing Sheets approved by Pittsburgh Water that are not part of the ORT Contract Documents (3 pages):

- Section 5.8 fly sheet
- Cover Sheet Pittsburgh Water Utility Relocations
- EA-A48-CI-300, EA-A48 Civil Pad Plan, Early Action Ductbank Installation

Addendum No. 006 November 10, 2025

Addendum No. 6

Attachment E

APPENDIX E – SUPPLEMENTAL INFORMATION (FOR REFERENCE ONLY) SECTION 5.8

Drawing Sheets Approved by Pittsburgh Water that are not part of the ORT Contract Documents, sheets 1 and 16.

Note that:

- Pittsburgh Water-approved drawing sheets 1 and 16 are not part of the ORT Contract Documents.
- Pittsburgh Water-approved drawing sheets 2 through 15 (not included with Appendix E Section 5.8) have been amended to the ORT Contract Documents; see Addendum 6, Attachment C.

Allegheny County Sanitary Authority 3300 Preble Avenue Pittsburgh, PA 15233

Contract No. 1797 OHIO RIVER TUNNEL PITTSBURGH WATER UTILITY RELOCATIONS AUGUST 4, 2025



MEMBERS OF THE BOARD

Shannah Tharp-Gilliam, Ph.D. - Chairperson

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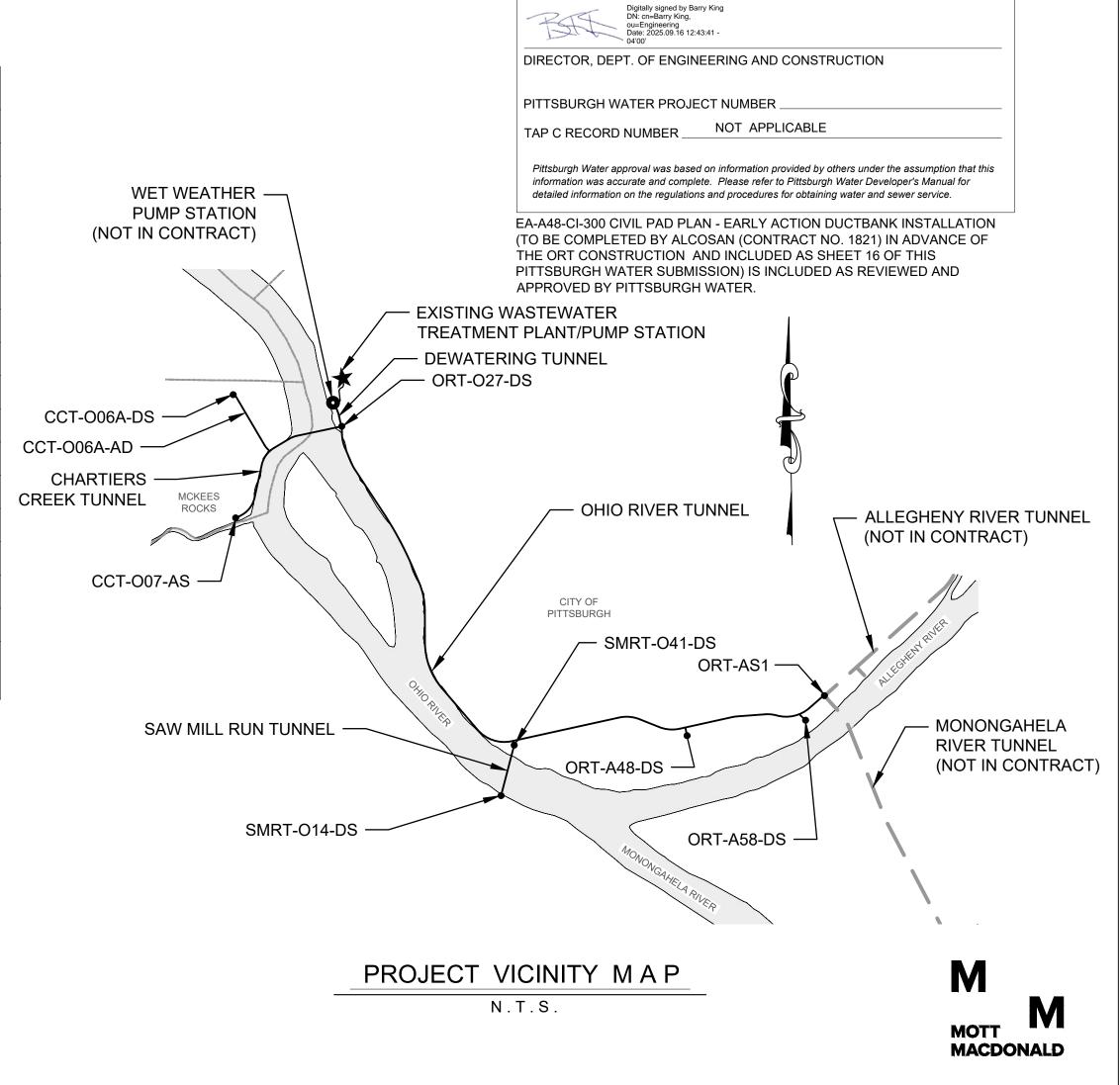
Michael Lichte, P.E. - Director of Regional Conveyance

ALCOSAN STANDARD REVISION MAY 2025

APPROVED	
EXECUTIVE DIRECTOR	DATE
DIRECTOR OF REGIONAL CONVEYANCE	DATE
MANAGER OF PLANNING	DATE
PROJECT ENGINEER	DATE



	DRAWING LIST
SHEET No.	DRAWING DESCRIPTION
1	COVER SHEET
2	PITTSBURGH WATER STANDARD NOTES
3	STANDARD SYMBOLS & LEGEND
4	O27-CI-106 - O27 WATERLINE RELOCATION
5	O27-CI-110 - O27 WESTHALL STREET PLAN
6	O41-CI-206 - O41 ABANDON WATERLINE AND INSTALL CATCH BASINS
7	O41-CI-207 - O41 INLET RELOCATION
8	A48-CI-305 - A48 WATERLINE RELOCATION & MH REPLACEMENT
9	A58-CI-406 - A58 WATERLINE RELOCATION
10	O14-CI-607 - O14 WATERLINE RELOCATION
11	O14-CI-608 - O14 SEWER RELOCATION
12	O14-CI-609 - O14 WATER & SEWER RELOCATION PROFILE
13	ORT-MD-028 - PITTSBURGH WATER RELOCATION DETAILS - SHEET 1 OF 3
14	ORT-MD-029 - PITTSBURGH WATER RELOCATION DETAILS - SHEET 2 OF 3
15	ORT-MD-030 - PITTSBURGH WATER RELOCATION DETAILS - SHEET 3 OF 3
16	EA-A48-CI-300 - EA-A48 CIVIL PAD PLAN - EARLY ACTION DUCTBANK INSTALLATION (ALCOSAN CONTRACT No. 1821)



5// mil

DIRECTOR OF OPERATIONS

PITTSBURGH WATER APPROVAL BLOCK

To be completed by the Applicant and provided on each sheet within the plan set

EVIEWER, DEPT, OF ENGINEERING AND CONSTRUCTION

(Required for "Private Construction of Public Facilities" ONLY

