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JUNE 16, 2025

CONTRACT NO. 1800

WET WEATHER PUMP STATION

ADDENDUM NO. 2

All bidders bidding **Contract No. 1800** shall read and take note of this **Addendum No. 2**. The Procurement Documents for **Contract No. 1800 WET WEATHER PUMP STATION** are hereby revised and/or clarified as stated below.

Acknowledgement of Contract No. 1800 Addendum No. 2

The Acknowledgement attached to Addendum No. 2 is to be signed and returned immediately via email at <u>contract.clerks@alcosan.org</u> and acknowledged with Bidder's Proposal.

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

ACKNOWLEDGEMENT OF

CONTRACT NO. 1800 G, E, H, P – WET WEATHER PUMP STATION

ADDENDUM NUMBER 2

FIRM NAME:_____

SIGNATURE:

TITLE: _____

DATE: _____

June 16, 2025

CONTRACT NO. 1800

WET WEATHER PUMP STATION

ADDENDUM NO. 2

ADDENDUM No. 2

ALLEGHENY COUNTY SANITARY AUTHORITY

PITTSBURGH, PENNSYLVANIA

CONTRACT NO. 1800

WET WEATHER PUMP STATION PROJECT

JUNE 16, 2025

BID OPENING DATE WEDNESDAY, AUGUST 19, 2025 11:00 A.M.

This Addendum No. 2 consists of 82 pages and the following attachments:

Attachment A – Pre-Bid Meeting Minutes June 11, 2025 including Presentation (61 pages)

Attachment B – Pre-Bid Meeting Attendance Sheet – 8 ½" x 11" (6 pages)

Attachment C – Addendum No. 2 Drawings – 22" x 34" (5 pages)

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) Wet Weather Pump Station. 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 No. 2 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

1. PRE-BID MEETING

1.1 A Pre-Bid Meeting was held at ALCOSAN at 10:30 a.m., Prevailing Time, on June 11, 2025, in the auditorium of the O&M Building, located at 3300 Preble Avenue, Pittsburgh, PA 15233. Meeting minutes and the attendance sheet are attached (Attachments A and B) to this Addendum No. 2. A site visit to observe the project area and core shed followed the meeting.

2. CHANGES TO THE SPECIFICATIONS

2.1 In Specification Section 41 22 13.13 "Radial Bridge Cranes and Hoists", **ADD** the following after Paragraph 2.07 A 1:

"2. The crane manufacturer shall provide a custom detachable spreader bar for the wet weather pump motors (PWW001-430MO, PWW002-430MO, PWW003-430MO, PWW004-430MO, PWW005-430MO, PWW006-430MO)."

2.2 In Specification Section 41 22 13.13 "Radial Bridge Cranes and Hoists", **ADD** the following after Paragraph 2.07 B 1:

"2. The crane manufacturer shall coordinate with the motor manufacturer to determine the appropriate motor pick-points, center-of-gravity, weight, removal clearance, and other design criteria as required for design of the spreader bar."

3. CHANGES TO THE DRAWINGS

- 3.1 On Sheet 000-C-23, **ADD** trees at new locations. **REPLACE** Sheet 000-C-23 with Sheet 000-C-23 Rev. 01, refer to Attachment C.
- 3.2 On Sheet 430-M-03, **UPDATE** orientation of motor terminal enclosures. **REPLACE** Sheet 430-M-03 with Sheet 430-M-03 Rev. 01, refer to Attachment C.
- 3.3 On Sheet 430-ET-03, **UPDATE** orientation of motor terminal enclosures and power connection. **REPLACE** Sheet 430-ET-03 with Sheet 430-ET-03 Rev. 01, refer to Attachment C.
- 3.4 On Sheet 000-ESP-04, **UPDATE** size of manhole EMH-224. **REPLACE** Sheet 000-ESP-04 with Sheet 000-ESP-04 Rev. 01, Refer to Attachment C.
- 3.5 On Sheet 430-ED-03, **UPDATE** Details 1 and 2. **REPLACE** Sheet 430-ED-03 with Sheet 430-ED-03 Rev. 01, refer to Attachment C.

4. QUESTIONS AND ANSWERS

- Q1: Since no Manhole or Handhole sizing details have been provided on Drawing 430-ED-03 and Specification Section 33.05 13.16 can dimensional sizes for the pre-cast manholes and handholes that are required to be provided by the 1800-E Contractor be provided?
- A1: Precast manholes are shown on drawing 000-ESP-04 as 4' and 8' square. Typical Manhole and Handhole details are shown on 430-ED-03. See specification 26 05 33 for manhole and handhole requirements.
- **Q2:** Will the 1800-G Contractor be responsible for the survey and site controls for the physical location of the new duct-banks, manholes and handholes?
- A2: Survey is the responsibility of each Contract for their respective scope of work. Coordination between Contract 1800G and 1800E is required for locating the ductbanks, manholes and handholes - refer to Section 01 11 00 1.01D and 1.02.C.7. The bidder's use of the words "site controls" is not clear. Please rephrase in a subsequent question.
- **Q3:** Will the 1800-G Contractor be responsible for the ductbank trench shoring and excavation stabilization for worker access?
- A3: Refer to Section 01 11 00 Part 1.02.B.3.

- **Q4:** "Will Section 3.79 Section 3.79 Buy American and 3.80 Pennsylvania Steel Procurement Act be applicable to the following engineered products:
 - 26 12 16 Dry Type Medium Voltage Transformers
 - 26 13 23 Medium Voltage Metal Enclosed Switchgear
 - 26 22 00 Low Voltage Transformers
 - 26 24 13 Switchboards
 - 26 24 16 Panelboards
 - 26 24 19 Motor Control Centers
 - 26 28 16.16 Enclosed Switches
 - 26 29 23 Variable Frequency Motor Controllers
 - 26 36 13 Automatic Transfer Switch "
- A4: It is the Contractor's responsibility to establish and manage which engineered products may be granted a waiver or exception to regulatory requirements.
- Q5: Drawing 430-ED-01 Detail 14001 details the requirement for a typical conduit duct bank entrance at structure. Drawing 430-ED-05 Detail 18 details the requirement for adjustable gland style sleeves for exterior building penetrations below grade. Drawing 430-ED-05 Detail 13 details a flange conduit sealing bushing below grade. Is Detail 14001 on Drawing 430-ED-01 acceptable for the duct bank entrance into Building 430?
- A5: Contract 1800G and 1800E need to coordinate for block out for the building wall. Contract 1800E is responsible for ductbank portion, including conduit reinforcement, concrete, waterproofing, sealing of penetration and appurtenances. Contract 1800G is responsible for excavation and backfill and formwork at wall.
- **Q6:** Which Contract, G or E, is responsible for the interior forming and finishing of concrete at the Building 430 duct bank entrance?
- A6: Contract 1800G is responsible for forming and finishing for the wall. Contract 1800E is responsible for the ductbanks. See response to Question 5.

END OF ADDENDUM No. 2

ATTACHMENT – A

Pre-Bid Meeting Minutes and Presentation

CONTRACTS 1800 G, E, H, P Wet Weather Pump Station PRE-BID MEETING Minutes

WEDNESDAY JUNE 10, 2025 @ 10:30 AM ALCOSAN O&M BLDG. AUDITORIUM

JOSEPH TRIPODI – ALCOSAN PROJECT MANAGER DUSTIN COPENHAVER & BETH JOYCE – ALCOSAN PROJECT ENGINEERS BRIAN DAUGHERTY – CONSTRUCTION MANAGER

INTRODUCTION

- a. Attendees will be sent a copy of the Agenda/Minutes via email noted on the attendee list.
- b. Opening comments from Construction Manager.
- c. Contractors must purchase bid documents from ALCOSAN to submit bids and receive addendum information.
- d. Mandatory goal of WBE/MBE participation. (10% to 25% of contract value).
- e. Presentation of Contract Scope by Brown & Caldwell.

BID DOCUMENTS

1. Legal Notice

- a. Bid security 10% of bid price by certified check or bid bond.
- b. All bids are to be submitted to Alcosan Engineering Department clerks (2nd floor of the O&M Building) on or before bid opening date and time. If the bid package is sent to ALCOSAN by land courier (UPS, FedEx, etc.), allow enough time for delivery to the clerks.
- c. Bid opening on <u>Tuesday August 19, 2025,</u> at **11:00 AM** prevailing time
- d. Anticipation of award at the, Thursday September 25, 2025, ALCOSAN Board meeting.
- e. All questions about contract documents shall be submitted to Brian Daugherty email to Brian.Daugherty@mbakerintl.com in writing. Any questions by phone or in-person are considered informal and without legal or binding effect on the contract or to the Owner.
- f. The last day for questions is Close of Business <u>Wednesday July 9, 2025.</u> Responses will be distributed as addenda, as soon as possible, as deemed applicable.

2. Bidding Documents [Article One]

- a. 1800G Bid Form fill in TOTAL BASE BID on page 1-5. This is the sum of Lump Sum Work (8.2) and Extended Amount for Unit Price Work (8.1) including 2 Alternatives. 1800 E,H,P Bid Form fill in Lump Sum on page 1-2. All bids submitted with all bid forms complete and signed by authorized representative of the Company. Only the bid forms need to be submitted (Article1, pages 1-1 through 1-30 (1800G) pages 1-1 through 1-24(E,H,P) and Solicitation and Commitment Statement pages 1 of 4 through 4 of 4), not the entire book.
- b. Acknowledge all Addenda received and made part of the Bid Documents page 1-2 (2.18)
- c. Provide contact for your company in the space designated on page 1-8 for receipt of any communications necessary for the bid evaluation.
- d. Bid Bond Certified check or Bid Bond. (2.21)
- e. MBE/WBE lower-tier subcontractor participation counts towards 10%-25% (2.27)
- f. Project Labor Agreement (2.36) Primes to sign and submit Letter of Assent with bid. Subs sign before working on project.
- g. Use of Model (2.37) "facilitate sequencing of the work in preparing bid."

3. Information for Bidders [Article Two]

- a. Submission of Bids (2.06); Sealed Bid to be submitted to ALCOSAN Engineering Department on or before bid opening date and late bids (anything received after 11:00 AM) will be treated as "non-responsive" and returned to the Bidder unopened.
- b. Award Contract Execution and Notice to Proceed (2.09); Intend to award Contract 1800 at September 25th, 2025, Board Meeting. Contract execution typically requires 4-6 weeks to process paperwork (including bonds and certificates of insurance). Anticipate a Notice to Proceed to be issued November 2025.
- c. Bidders to Investigate (2.15); Bidders are required to visit Core Shed and may coordinate additional site visits through the Construction Manager Resident Engineer Brian Daugherty at <u>Brian.Daugherty@mbakerintl.com</u>.
- d. Tax Exemptions (2.20) See Article 3.22 and Exhibit D.
- e. Bid Security / Contract Execution (2.19)
- f. Alterations of Bids and Documents (2.22)
- g. Qualifications and Experience of Bidders (2.26)
- h. MBE & WBE Participation (2.27)
- i. Project Labor Agreement and Letter of Assent (Prime and Subs) (2.36)
- j. Dispute Review Board (2.38)
- k. Escrow Bid Documents (2.39)
- I. Geotechnical Baseline Report (2.40)
- m. Geotechnical Data Report (2.41)

4. Contract Provisions [Article Three]

- a. Project Coordination (3.7 & 3.28)
- b. Retainage; (3.37): 10% to start. Reduced to 5% at 50% completion.
- c. Bonds (3.58); Performance Bond and Labor and Material Payment Bond to be provided prior to the execution of the Contract Agreement by Owner in the amount (100%) of the Contract Sum. Also, Maintenance Bond (100% of Contract sum) is required upon final acceptance of the completed work.
- d. Working hours (3.77); Normally for an 8-hour period between 7:00 AM to 5:00 PM, Monday through Friday. Work performed after hours, during ALCOSAN holidays and weekends shall be coordinated with the Construction manager 48 hours in advance. **(SCC)**
- e. Pennsylvania Prevailing Wage Rates (3.78); Minimum wage rates as set forth by the PA Prevailing Wage Act. (See Article 7 Volume 1 of 3)
- f. Compliance to the Buy American (3.79)
- g. Compliance to the PA Steel Products Procurement Act/Trade Practices Act (3.80/3.81)

5. Supplemental Contract Conditions

- a. Order Of Precedence (3.2)
- b. Additional Definition (3.3)
- c. Coordination (3.7)
- d. Insurance (3.9)
- e. Access To Work (3.24)
- f. Time Of Completion, Milestone Dates (3.29)
- g. Disputes And Claims (3.56) For Contract 1800 G only
- h. Warranty (3.59)
- i. Governing Law; Forum (3.70) For Contract 1800 G only
- j. Working Hours (3.77)
- k. Escrow Bid Documents (3.83) For Contract 1800 G only
- I. Replace Exhibit "A" Insurance in its entirety with the following Exhibit "A-3SC" Insurance.

- m. For Contract 1800 G only, add Exhibit "E" Dispute Review Board Specification after Exhibit "D" Tax Exemption Certificate.
- n. For Contract 1800 G only, add Exhibit "F" Dispute Review Board Agreement after Exhibit "E" Dispute Review Board Specification.

6. Contract Agreement [Article Four]

a. Contract Milestones: All 1800 Primes are the same, G shown as example

Construction Milestone	Contract Time Calendar Days	Notes
Substantial Completion of Contract 1800 G	1,797 days	From Notice to Proceed
Final Completion of Contract 1800 G	1,917 days	From Notice to Proceed

b. Liquidated Damages

Construction Milestone	Liquidated Damages / Calendar Day
Substantial Completion of Contract 1800 G	\$7,000/calendar day
Final Completion of Contract 1800 G	\$7,000/calendar day

7. Bonds, Certificates and Statements [Article 5]

- a. Performance Bond (At beginning of contract)
- b. Labor and Material Payment Bond (At beginning of contract)
- c. Contractor's Certificate of Satisfaction (At completion of contract)
- d. Maintenance Bond (At completion of contract)

8. Project Specifications [Article 6)

a. Summary of Work 01 11 00 – Summarized by the FDC

9. Prevailing Minimum Wage Determination [Article 7]

10. Contract Drawings

11. Open Discussion / Questions / Site Tour Requests-submit

- Attendees were informed that any questions asked and responses given are to be considered informal. Attendees must submit questions for formal responses through the Addenda process.
- Site Tour was conducted, and the visitation of core shed was available to attendees after tour.

♦ ♦ ♦ End of Minutes ♦ ♦ ♦ ♦



ALCOSAN Wet Weather Pump Station Prebid Meeting

June 11, 2025



Agenda

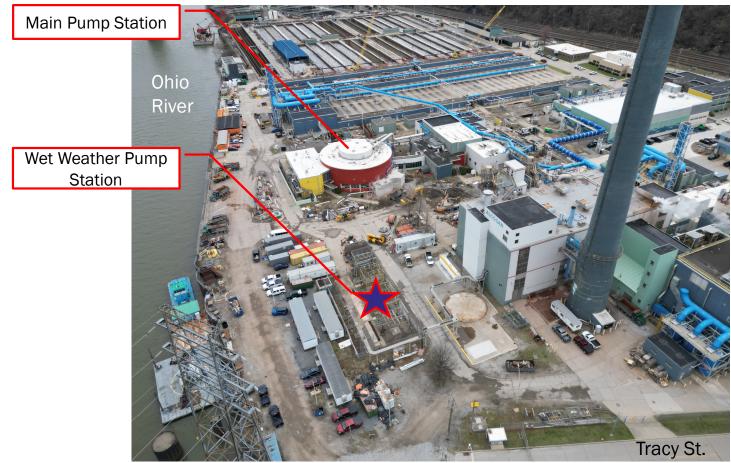
- Project Purpose
- Contract Documents and Reference Documents
- Staging and Coordination
- Constraints and Maintenance of Plant Operations
- Scope and Phasing of Work
 - Utilities
 - SOE and Shaft
 - Pump Station Overview
 - *Commissioning, Warranty*
- Bid Form and Schedule

Project Purpose

Increase treatment capacity at the Alcosan Woods Run WWTP

• Construction of a new 120 mgd pump station and connection to a dewatering tunnel (DWT) built under a separate contract

Wet Weather Pump Station Location



4

Contract Documents and Reference Information

Four Contracts

- 1800G: General
- 1800E: Electrical
- 1800H: HVAC
- 1800P: Plumbing

Contract Documents and Reference Info

Bidding Documents

- Volume 1 Front End
- Volumes 2 and 3 Technical Specifications
- Volume 4 Geotechnical Data Report
- Volume 5 Geotechnical Baseline Report
- Drawings

Reference Information

- Volume 1 of 1
- Revit Model

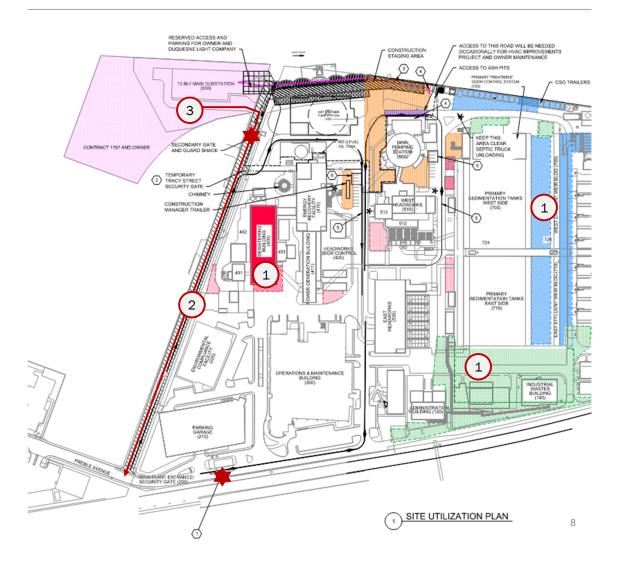
Rock core storage facility

Staging and Coordination



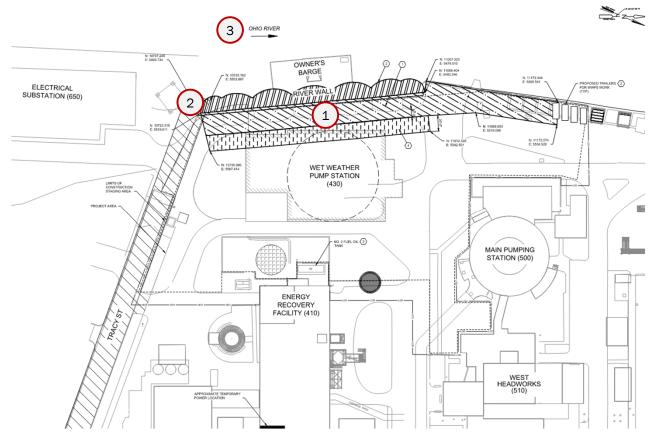
Site Utilization

- Multiple ongoing and future projects affect access
- 2 Tracy Street use is limited by phase and duration
- There will be overlap with truck traffic on Tracy Street from Ohio River Tunnel Project west to east



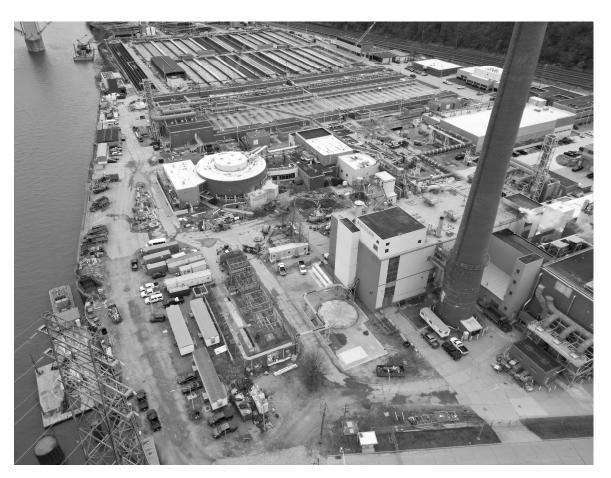
Staging Near Riverwall

- Restricted loading in multiple zones
- Must provide unrestricted Alcosan access to electrical substation
- 3 No Contractor river access permitted



General

- Limited onsite soil/rock stockpiling
- Groundwater and construction water (unwatering) to be managed, treated, Alcosan Pretreatment requirements apply
- Management of Excavated Soil and Rock, refer to specifications
- Work hour restrictions refer to specifications
- Special limitations on blasting in vicinity of UOIT and coordination with Sherwin Williams (adjacent property owner)



Constraints and Maintenance of Plant Operation (MOPO)

MOPO is paramount

SECTION 01 52 00 MAINTENANCE OF PLANT OPERATIONS

PART 1 GENERAL

1.01 SUMMARY

- A. The intent of this specification is to have the Contractor schedule and perform the work in a manner such that the Owner can keep the existing treatment plant facilities in continuous dependable operation and in compliance with all regulatory requirements. The Contractor shall adhere to the constraints listed in this section and elsewhere in the Contract Documents.
- B. Some elements of the phases described in this Section may be achieved in parallel, however Contractor shall adhere to the General and Specific Constraints in the section.
- C. Due to the nature of deep shaft WWPS construction, a significant portion of the permanent HVAC and Plumbing work is anticipated to occur later in the project after major portions of the shaft and substructure have been built.
- D. References to Drawings and drawing keynotes in this section are provided for convenience and are not intended to be comprehensive of all work required as part of a particular Phase.

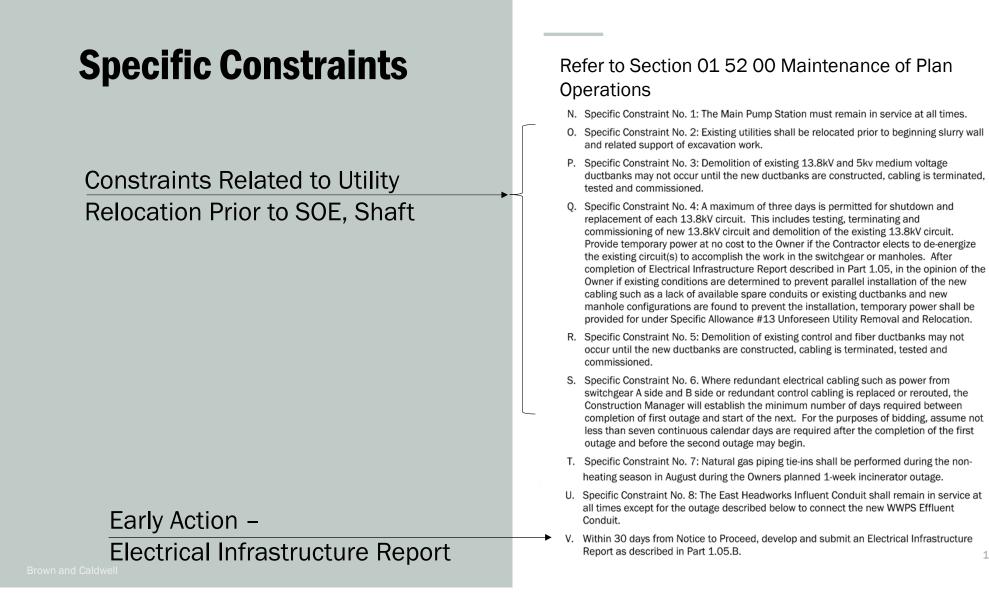
Long-Lead and Critical Submittals

Refer to Section 01 33 00 Submittals

- E. Long-Lead and Critical Submittals
 - 1. Submit within 30 days of Notice to Proceed, critical-path related submittals which may include, but not limited to the following:
 - a. Electrical utilities and piping systems related to utility relocation
 - b. Concrete for ductbanks
 - c. Geotechnical monitoring
 - d. Pre-excavation drilling and grouting, vertical rock reinforcement, slurry walls, rock excavation, shaft construction and temporary support of excavation related submittals.
 - 2. Submit within 90 days of Notice to Proceed, long-lead procurement submittals which are expected to include, but not limited to the following:
 - a. Medium voltage switchgear, variable frequency drives and transformers
 - b. Wet Weather Pumps
 - 3. Refer to individual technical specifications for identification of other anticipated long lead or potentially critical submittals.

Section 01 52 00 Excerpt

	SECTION 01 52 00 MAINTENANCE OF PLANT OPERATIONS	
	PART 1 GENERAL	
	1.01 SUMMARY	
Some Phases overlap	A. The intent of this specification is to have the Contractor schedule and perform the work in a manner such that the Owner can keep the existing treatment plant facilities in continuous dependable operation and in compliance with all regulatory requirements. The Contractor shall adhere to the constraints listed in this section and elsewhere in the Contract Documents.	
	 B. Some elements of the phases described in this Section may be achieved in parallel, however Contractor shall adhere to the General and Specific Constraints in the section. 	
Contracts 1800H and 1800P	C. Due to the nature of deep shaft WWPS construction, a significant portion of the	
Work later in project	permanent HVAC and Plumbing work is anticipated to occur later in the project after major portions of the shaft and substructure have been built.	
Keynotes describe some	 D. References to Drawings and drawing keynotes in this section are provided for convenience and are not intended to be comprehensive of all work required as part of a 	
of the phasing	particular Phase.	

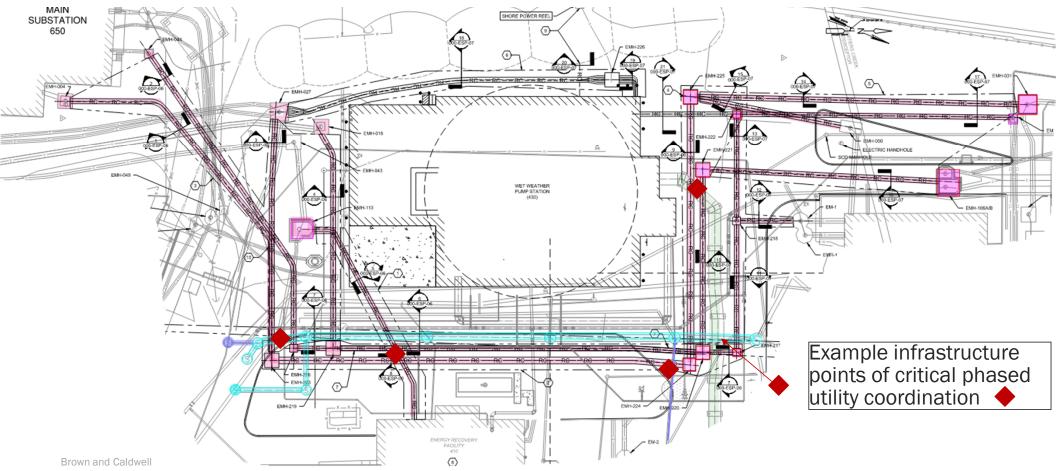


Utilities



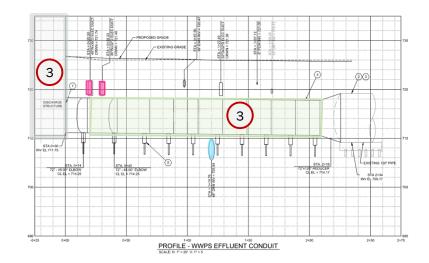
Brown and Caldwell

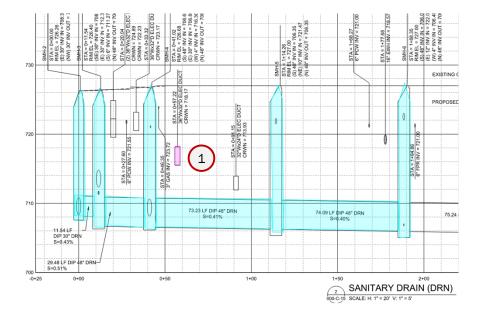
Phasing Utilities and Temporary Support

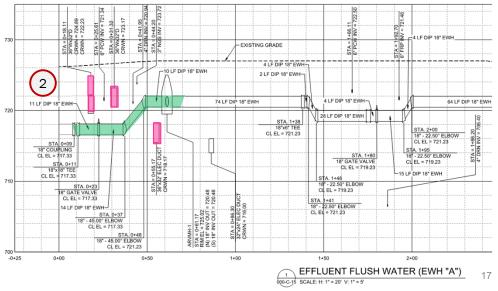


Examples

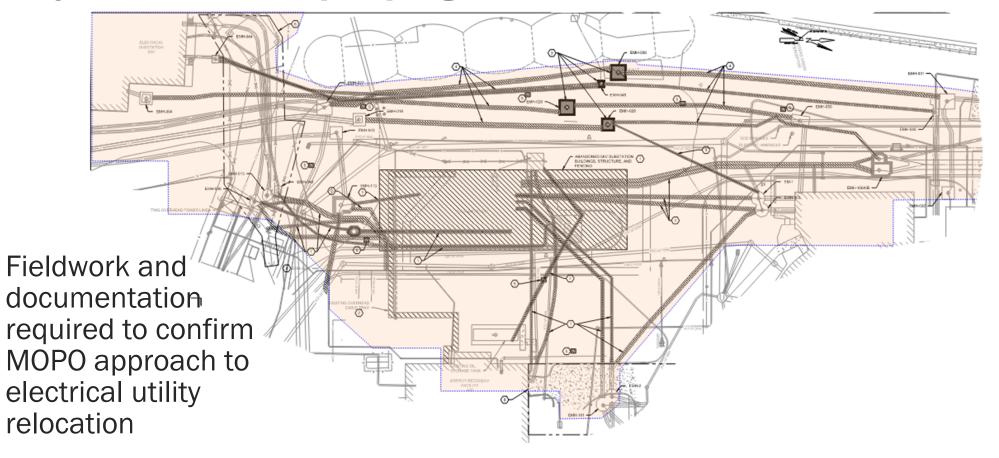
- 1 Temporary support of ductbanks to 410 Building during drain construction
- 2 Effluent water high pressure above and below ductbanks
- 3 WWPS Effluent Conduit, piles and large plant drain below with later tie into WWPS and East Headworks





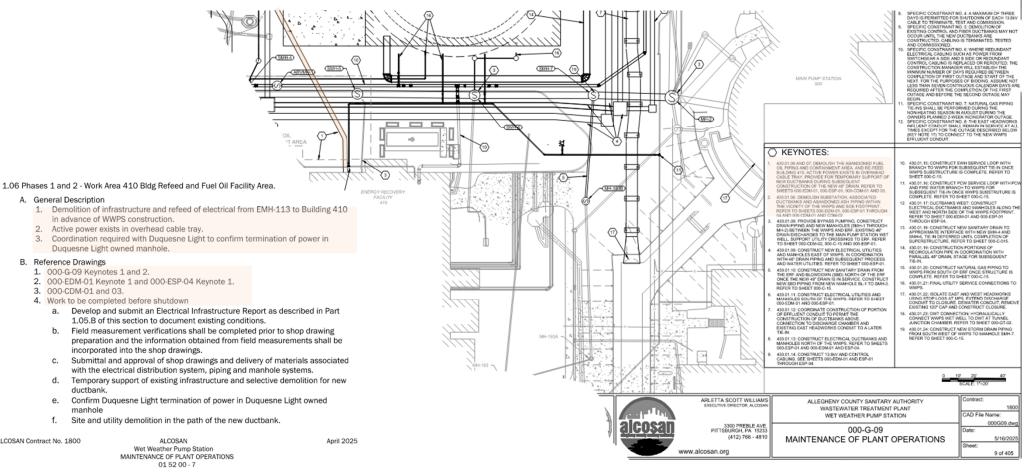


Early Phases – Deep Piping and Electrical Ductbanks



Brown and Caldwell

Section 01 52 00 Example – Refeed Building 410



Brown and Caldwell

C.

d.

e.

f.

ALCOSAN Contract No. 1800

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З.

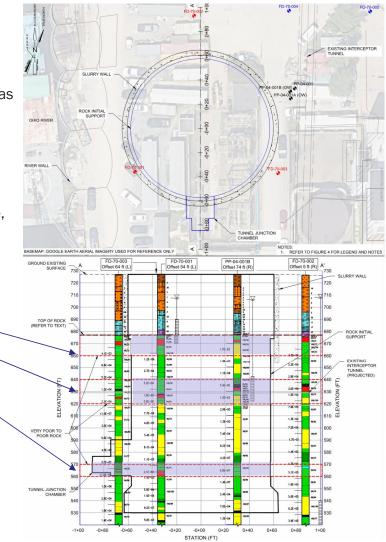
Geologic Conditions, UOIT, SOE, Groundwater Cutoff, and Protection of Structures

Geologic Conditions

- Soil:
 - Fill: Sand and gravel, clay, silt, cobbles, boulders, and man-made debris such as ash, slag, cinders, bricks, metal, wood, etc.
 - Alluvium: Interbedded sand, gravel, clay, silt. Cobbles and boulders possible.
 - Residuum: Directly over bedrock. Dense to very dense, highly to completely weathered siltstone or sandstone.
- Rock:
 - Interbedded sedimentary rock, with near horizontal bedding: sandstone, shale, claystone, coal, and limestone
 - Majority: Very Good, Good, or Fair Rock.
 - Approximate areas of Poor or Very Poor Rock
- Groundwater:
 - Baseline condition in GBR.
 - Overburden and rock are highly permeable.
- Gas Conditions:
 - Potentially gassy.

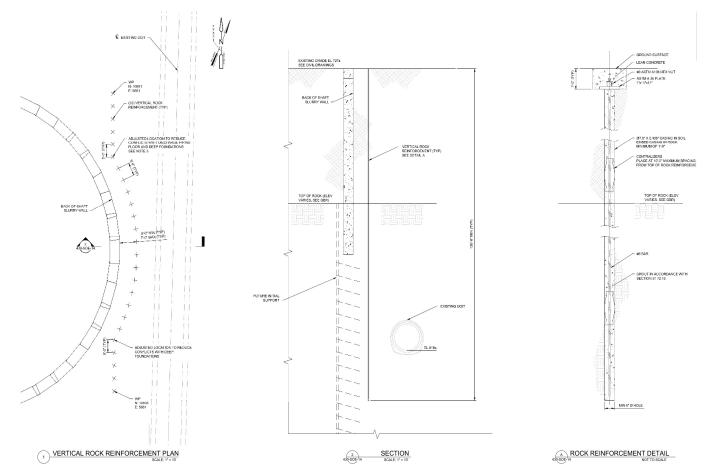
Table 7-1: Baseline Ground Conditions

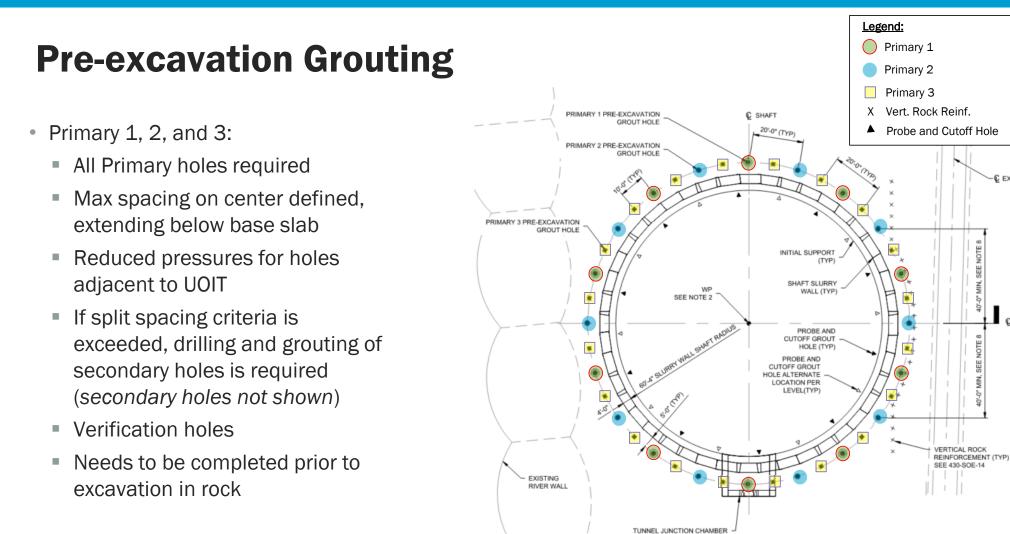
Stratum	Top of Stratum Elevation (ft)
Fill	727 +/- 2
Alluvium	690 +/- 5
Residuum	680 +/- 2
Bedrock	677 +/- 3



UOIT

- Existing UOIT invert shown approximate
- Vertical rock reinforcement as a shield to protect UOIT
- Restrictions in proximity to UOIT:
 - Drill in 1-foot increments and observe cuttings
 - Downhole survey of hole verticality
- Has to be installed prior to excavation of shaft in rock
- Geotechnical instrumentation and monitoring (later slides)



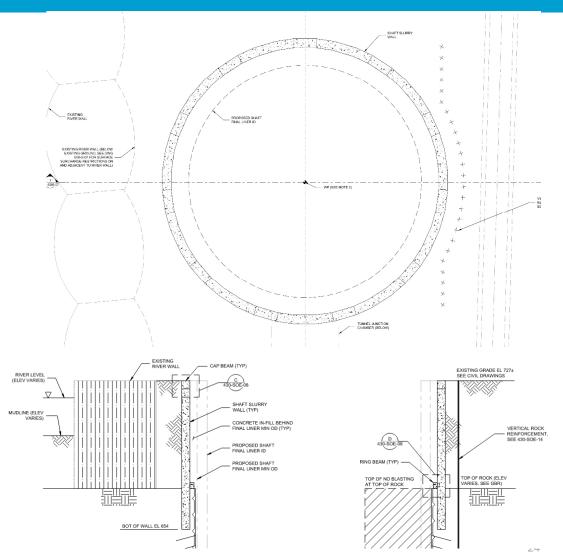


C EXISTING UOIT

C SHAFT

Shaft SOE - Soil

- Engineer-designed SOE
- Embedded into rock
- Loading restrictions on adjacent river wall (see earlier slide)
- Potential presence of boulders within soil – see Pay Item 13 – Special Allowance #2
- Demolishing of slurry wall is subject to restrictions



Shaft Support - Rock

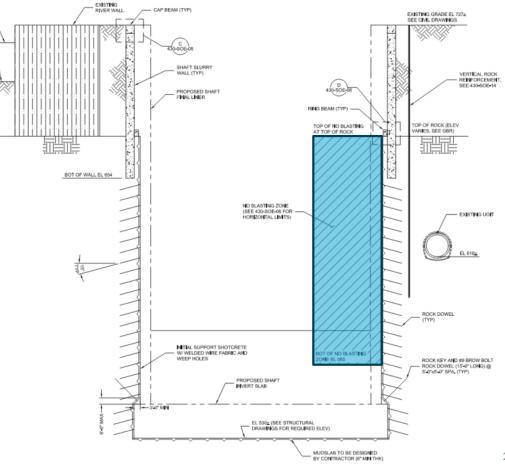
<u>Rock Excavation:</u>

Height limitation for rock excavation

(ELEV VARIES) -

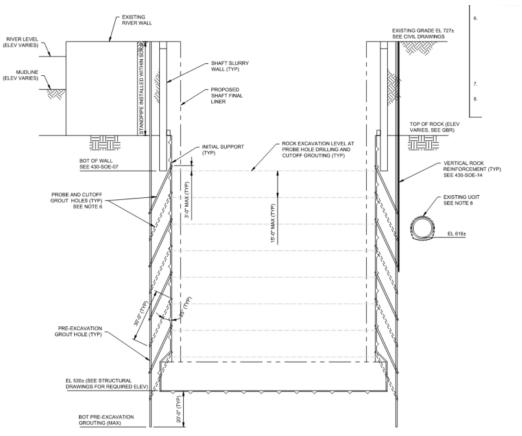
MUDLINE (ELEV

- Probing and cutoff grouting as excavation is advanced
- Initial support to be installed in its entirety prior to advancing the excavation
- Blasting not allowed in areas adjacent to UOIT, as shown on the Contract Drawings
- Base slab key



Probing and Cut-off Grouting

- Install around shaft perimeter at each level
- Alternate probe hole locations between levels
- Reduced pressures required adjacent to UOIT
- Manage groundwater to construct permanent works



Control of Groundwater and Construction Water - 31 23 19

- 1. Construction Water, Groundwater, Surface Water and Unwatering
- 2. Dewatering of near surface excavations below water table; Slurry wall to be made relatively watertight
- 3. Unwatering of water that collects in the WWPS shaft, TJC and near-surface excavation and open cuts
- 4. Discharge location and maximum flowrate restrictions identified in 31 23 19
- 5. Testing and treatment by Contractor is base bid per Spec 31 23 19 & Appendix, needs to meet Alcosan Pretreatment Requirements.

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Ground Water Discharge Permit Application

(For on-site construction related to groundwater disposal)

	A	pplicant Information		
Company Name or Permittee		Date	:	
Project Name:				
Company Mailing Address:				
	Street Address			
	City	State	ZIP Code	
Person to contact regarding gro	und water dischar	ge:		
Phone:		Email		
Name:		Company		
Ground Water Discharge Location:		ATTACH DRAWINGS WITH DESCRIPTIONS		
Will there be flexibility in the de sampling that it can be discharg		to discharge to the river if it is determined by river?	YES	NO
If No, why not?				
Location(s) where ground wat	er sample may be	e taken:		

Ground	Water Flow:	[] Continu	ious – Ra	te	GPD	[] Intern	nittent –	Rate	GPD	
	If Intermittent, t	ime	of discha	rge:		_AM / PM	to		AM/P	M	
	Days per week (Circle	e day):	Mon.	Tues.	Wed.	Thurs.	Fri.	Sat.	Sun.	

Provide a description of the flow ranges expected (Average and Peak), if it will be continuous or intermittent, timeframes, etc.:

Groundwater and Construction Water, Soil, Rock and Other Encountered Material

- 1. Testing and treatment by Contractor is base bid
- 2. Observation of soil and rock testing by Construction Manager, but testing by Contractor
- 3. Soil, Rock and Other Encountered Material M&P

PART 3 - EXECUTION

3.1 PAY ITEMS

A. Pay Item 1 - WWPS Construction Lump Sum Work

- The lump sum bid price for this work includes work identified in the Contract Documents and as summarized in Section 01 11 00, Summary of Work.
- Work associated with unit price and allowance items as identified in this Section will not be paid under this pay item.
- Measurement and payment for this item will be a physical percent complete as agreed by the Construction Manager and Contractor per the Contractor's Schedule of Values.
- 4. Payment for this pay item will be made at the lump sum bid price, which will include all labor, materials, equipment, tools, testing, fees, and incidentals needed to complete the work specified, except as otherwise itemized in the Schedule of Values.
- All mechanical, civil, architectural, and structural improvements performed as part of this project is considered part of this lump sum bid price.
- All temporary support of excavation (SOE) systems and rock initial support are considered part of this lump sum bid price.
- 7. Temporary Water Control
- a. All regulatory testing and treatment of all fluid discharged from temporary water control systems as described in Section 31 23 19, to control construction water and groundwater to meet applicable regulatory requirements is considered part of this lump sum bid price.
- b. Furnishing, delivery, installation, maintenance, operation, monitoring and removal of all temporary water control systems to control groundwater and construction water is considered part of this lump sum bid price.
- Coordination with Construction Manager who may observe the regulatory testing performed by Contractor.
- 8. Regulatory Testing subsurface work
 - a. All sampling, testing and analysis of all excavated materials for compliance with applicable regulatory requirements including but not limited to soil, rock and other encountered material during subsurface work, pile drilling, temporary SOE work, grout hole drilling, probe hole drilling, spoils, handling, hauling and disposal.
 - b. Coordination with Construction Manager who may observe the regulatory testing performed by Contractor.
- Excavation, handling, stockpiling, hauling and disposal Soil and Other Encountered Material
 - a. Beyond the circumference of the outer diameter of the shaft slurry wall and below grade, all excavation, handling, stockpiling, hauling and disposal of soil, rock, spoils and other encountered material during subsurface work is considered part of this lump sum bid price.

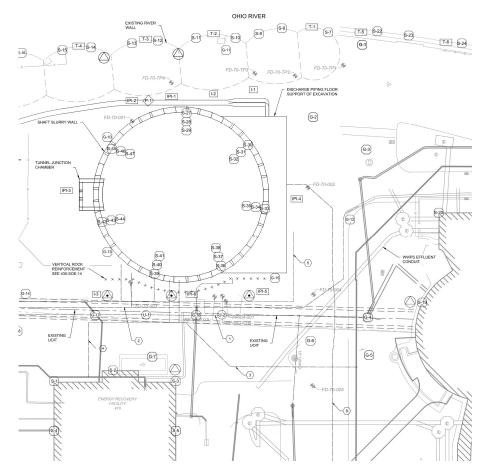
ALCOSAN Contract No. 1800 ALCOSAN Wet Weather Pump Station MEASUREMENT AND PAYMENT (LUMP SUM AND UNIT PRICES) 01 22 00 - 6 April 2025

Groundwater and Construction Water, Soil, Rock and Other Encountered Material

- 1. Testing and treatment by Contractor is base bid
- 2. Observation of soil and rock testing by Construction Manager, but testing by Contractor
- 3. Soil, Rock and Other Encountered Material M&P

- All material shall be assumed to be Residual Waste as described in Section 31 23 00.
- b. Within the circumference of the outer diameter of the guidewalls, shaft slurry wall and below grade, all excavation, handling, stockpiling, hauling and disposal of soil and other encountered material during subsurface work, is considered part of this lump sum bid price.
 - All material above approximate elevation 693 shall be assumed to be Residual Waste as described in Section 31 23 00.
 - All material below approximate elevation 693 to the top of rock interface shown in the GBR shall be assumed to be Clean Fill as described in Section 31 23 00.
- If regulatory compliance testing confirms Residual Waste material in excess of the above assumptions, refer to Pay Item 22 – Additional Residual Waste Soil Disposal for payment.
- Excavation, handling, stockpiling, hauling and disposal Rock and Other Encountered Material
 - a. Within the circumference of the outer diameter of the guidewalls, slurry wall and below including the shaft and the tunnel junction chamber, all excavation, handling, stockpiling hauling and disposal of rock and other encountered material below the soil interface is considered part of this lump sum bid price. Disposal of rock that is not identified as Acid Producing Rock per item b. below is considered part of this lump sum bid price.
 - b. If regulatory compliance testing in accordance with PennDOT Publication 293, Chapter 10 confirms Acid Producing Rock refer to Pay Item 23 – Acid Producing Rock Disposal for payment.

Geotech Monitoring



<u>Geotechnical Instrumentation</u>

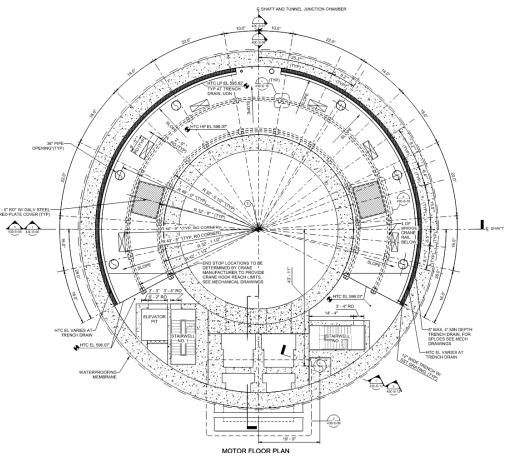
- GMP, SMP, UMP, Tiltmeter, Inclinometer, Piezometer, Seismographs, Down-hole seismographs
- Alert and maximum permissible movement levels
- Installed and baseline prior to construction.

Monitor	Alert Level	Maximum Level
Slurry Wall (structure	0.50 in (horizontal)	1.00 in (horizontal)
monitoring point)	0.25 in (vertical)	0.50 in (vertical)
Inclinometers	1.00 in (horizontal)	2.00 in (horizontal)
Discharge Piping Floor SOE	1.00 in (horizontal)	2.00 in (horizontal)
	0.25 in (vertical)	0.50 in (vertical)
Existing Structures (Energy	0.15 in (horizontal)	0.25 in (horizontal)
Recovery Facility, Tower, Main	0.15 in (vertical)	0.25 in (vertical)
Pump Station)	1/500 (angular distortion)	1/250 (angular distortion)
Grid Crack Gauges*	0.075 in	0.125 in
Existing River Wall	0.50 in (horizontal)	1.00 in (horizontal)
	0.50 in (vertical)	1.00 in (vertical)
	1/500 (angular distortion)	1/250 (angular distortion)
Buried Pipelines and Utilities	0.20 in (vertical)	0.30 in (vertical)
Electrical Conduits (newly installed)	0.50 in (vertical)	0.75 in (vertical)
Pavement outside the staging	0.15 in (horizontal)	0.25 in (vertical)
area	0.15 in (vertical)	0.25 in (vertical)

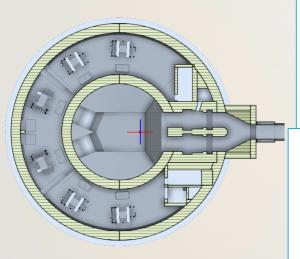
Shaft Permanent Construction and TJC interface with ORT Contract

Construction of Shaft – Unique Elements

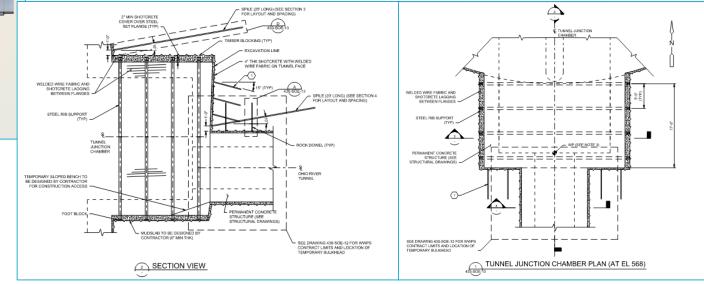
- Waterproofing membrane system
- Mass concrete placement requirements:
 - Temperature Control Plan
- Durable concrete mix design:
 - Alkali-silica reactivity testing (long-lead)
- True circular forms
- Minimum thicknesses to be maintained
- Construction joint layout:
 - Coordination of reinforcement and waterstops
 - Layout restrictions
- High tensile concrete fill geometry
- Underhung circular crane system embedded supports
 - Field fit
- Contractor-designed aluminum access platforms



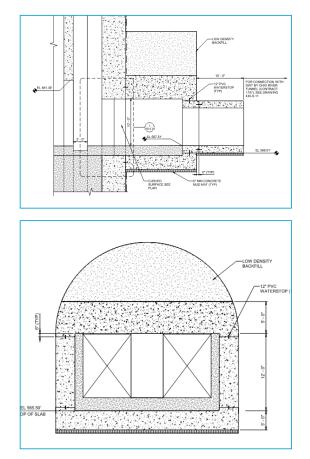
Tunnel Junction Chamber – Initial Support

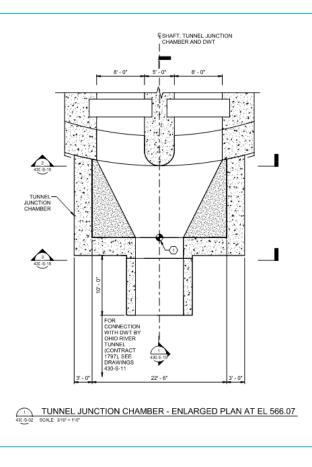


- Tunnel Junction Chamber Initial Support:
 - WWF shotcrete lagging with steel ribs
 - Dowels and spiles
 - Engineer-designed
 - Blasting limitations at Contract interface



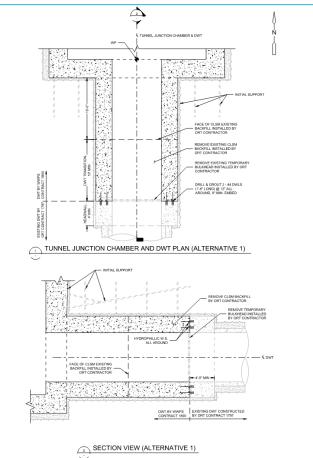
Tunnel Junction Chamber Permanent Sections & Details

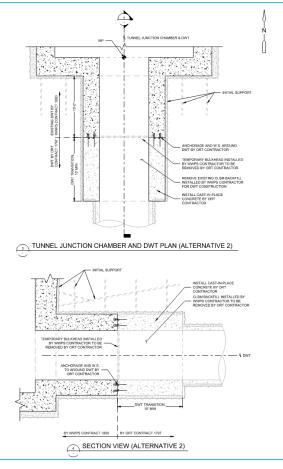




- Flat roof slab required for TJC hydraulics
- Backfill above roof slab with low density backfill
- Coordination of TJC penetration with waterproofing membrane for shaft liner.

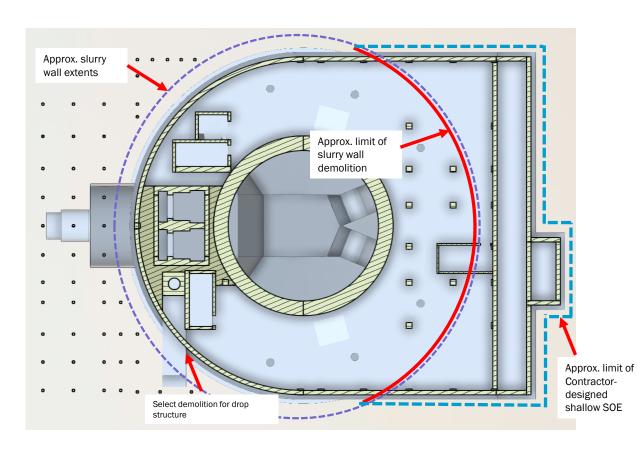
Brown and Caldwell





Tunnel Junction Chamber – Interface with ORT

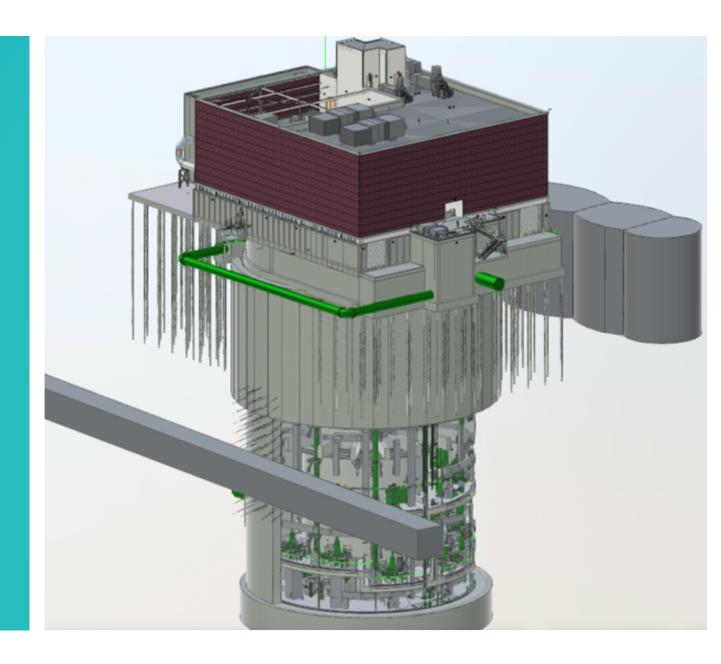
- Two alternatives at the tie-in driven by timing of schedule of WWPS Project and Ohio River Tunnel Project
 - Alternative 1 ORT work at the interface complete prior to WWPS
 - Alternative 2 WWPS work at the interface complete prior to ORT
- Contractor-designed Bulkhead
- DWT Transition Section
- Contractor shall bid both alternatives, paid for one



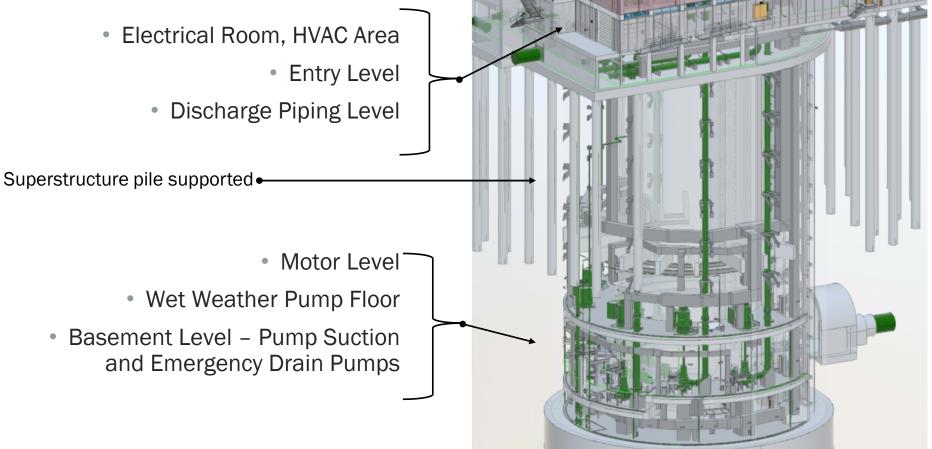
Discharge Piping Floor SOE System

- Shallow SOE system:
 - Contractor-designed
 - Performance criteria in Contract Documents
 - Requires coordination with Engineer-designed slurry wall
 - Slurry wall may not be demolished until shaft permanent liner is installed to underside of Discharge Piping Floor
 - Groundwater Control

Pump Station Overview

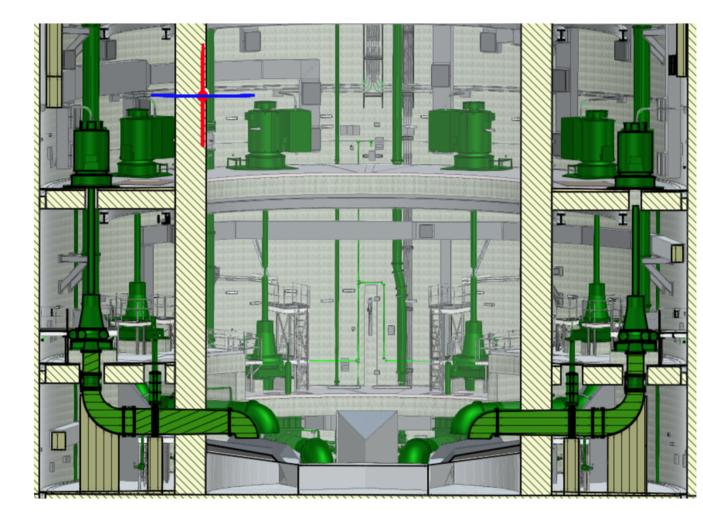


Multiple Levels

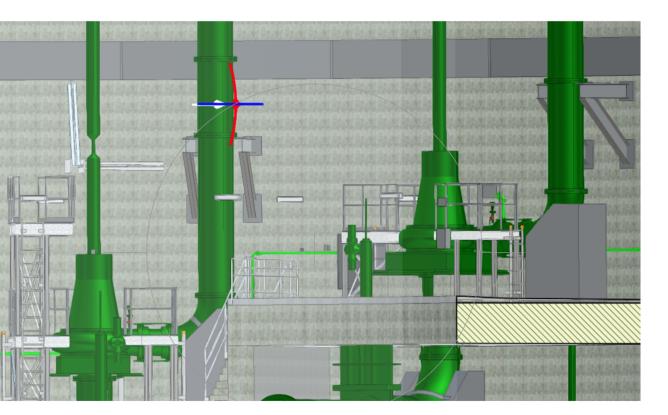


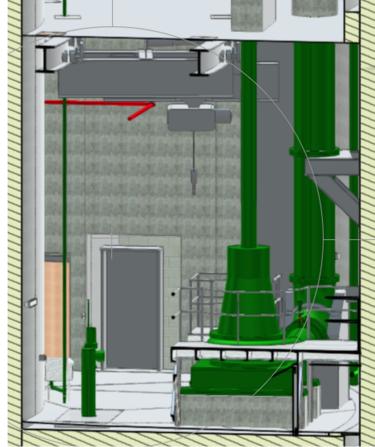
Pump, Motor and Basement Levels

- (6) 30 mgd pumps/motors
- Suction/discharge piping, valving, and flow meters
- Radial cranes at multiple levels
- Shaft-handling system
- Floor access hatches
- HVAC and plumbing work extends to lower levels

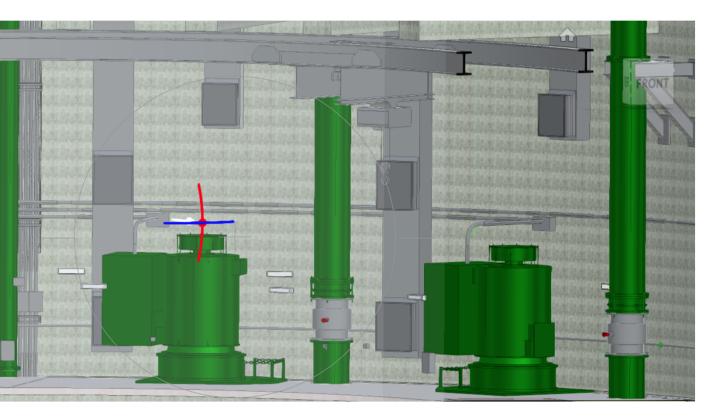


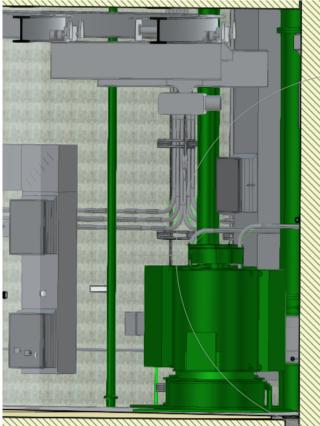
Pump Room and Radial Crane System



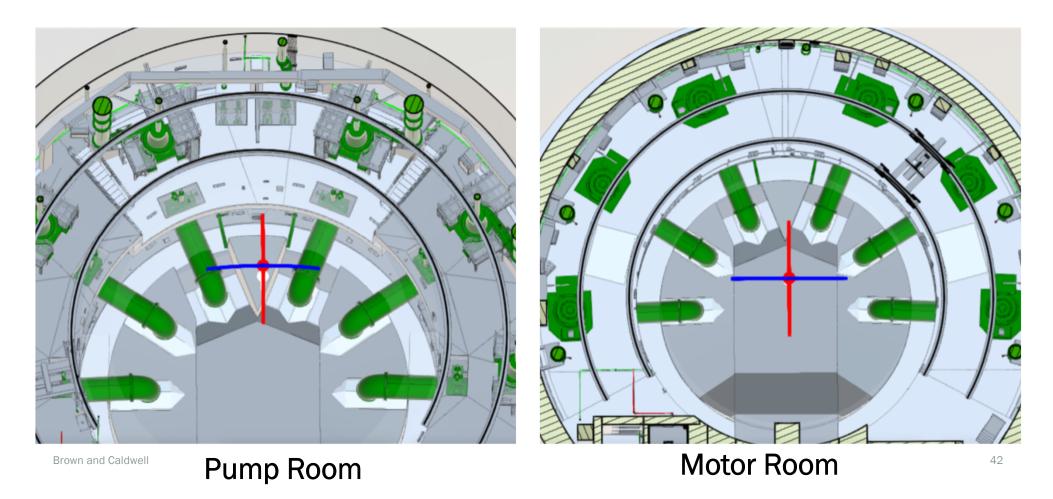


Motor Room and Radial Crane System



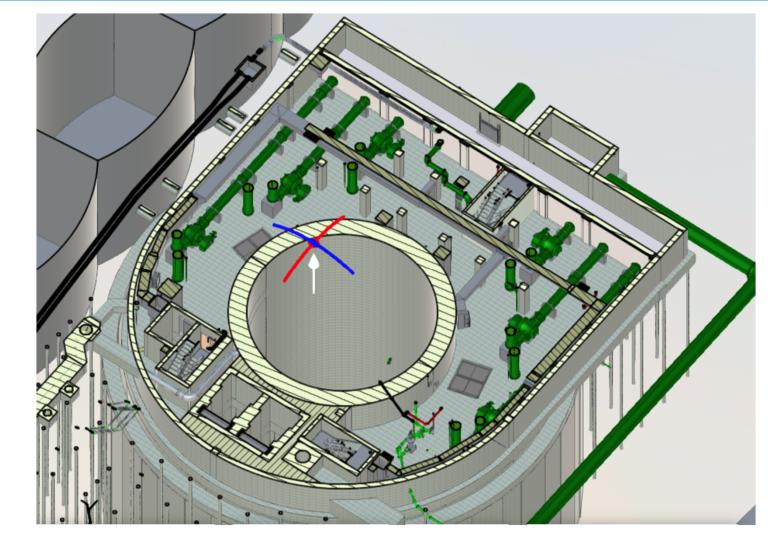


Radial Crane with Telescoping Girder



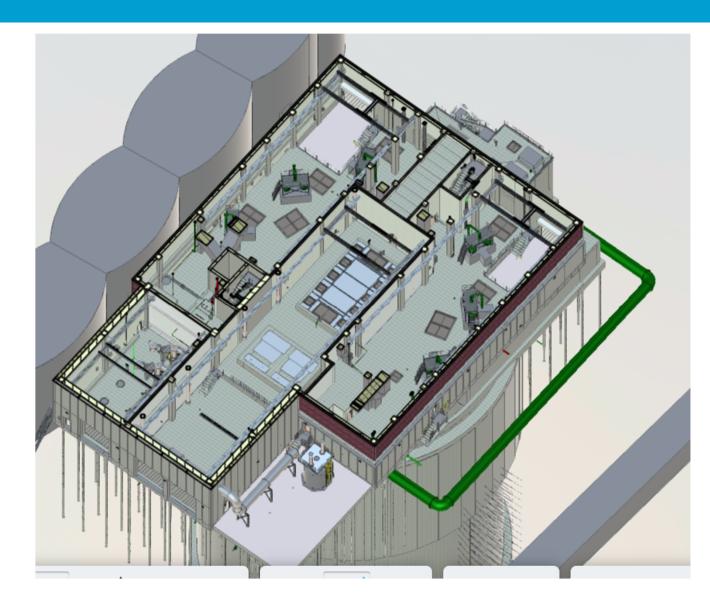
Discharge Pipe Level

- Discharge piping
- Discharge structure
- Cone Valves
- Access hatches
- Recirculation pipe drop structure



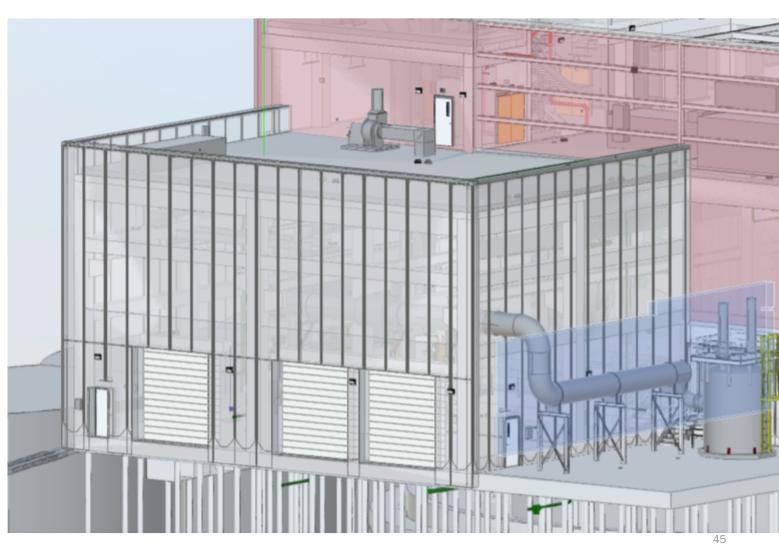
Entry Level ~ El. 730.75

- Discharge pipe/siphon break valving
- (2) Loading docks with cranes
- Floor hatches
- Wet well access room with covered openings
- Restroom/janitor closet
- Masonry wall construction separating process areas



Grade Level

- Odor control carbon scrubber system with vessels outdoors
- Fan Room
- System serves multiple areas



Electrical/HVAC Level

- Electrical Room
- Elevator Control Room
- HVAC Rooftop Units and MAUs within masonry screening walls



Roof Level

- HVAC Rooftop Units and MAUs
- Elevator access
- EPDM roofing system



Facade

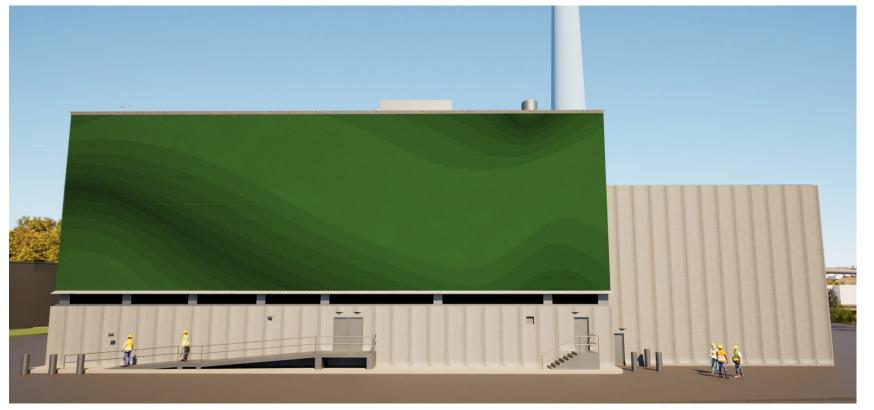
View from Northwest



WWPS View from Tracy Street



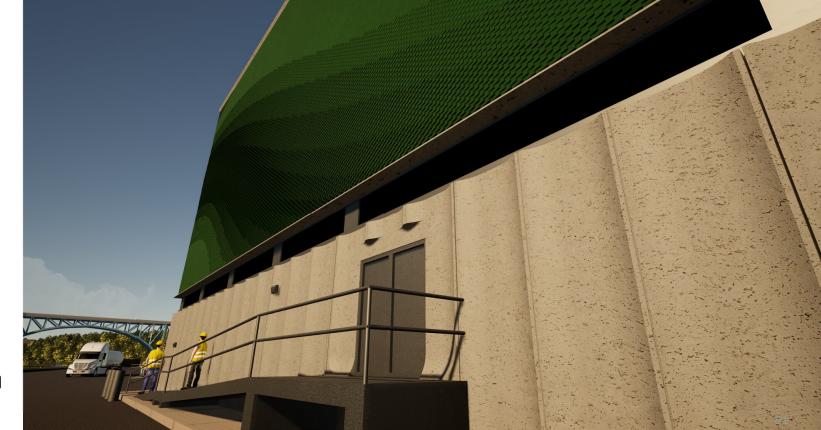
WWPS View from River Wall



WWPS Brick Shapes

- Standard
- Brick Shape 1
- Brick Shape 2
- Brick Shape 3
- Brick Shape 4
- Brick Shape 5
- Brick Shape 6

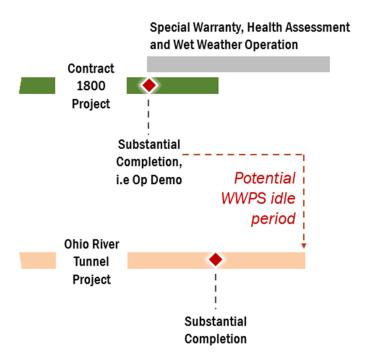




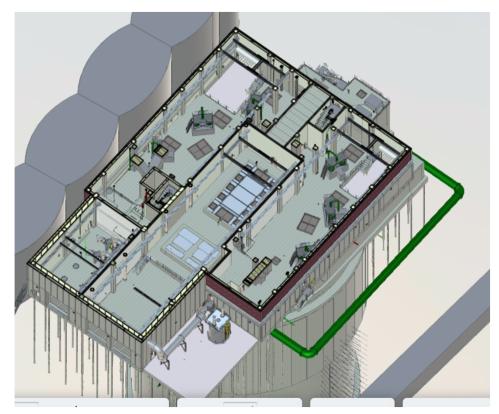
Phase 6 – Commissioning and Warranty

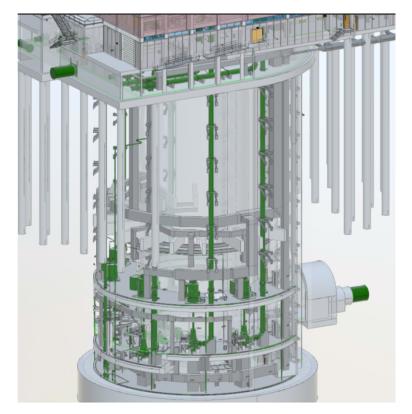
WWPS Potential Idle Period

- Refer to Section 43 23 16
- Pumps are installed but idle until tunnel is completed and adit connection made
- Recirculation mode using recirculation pipe only permits startup and operation at low suction head only
- Special Warranty on Wet Weather Pumps
- Pump 'Health Assessment' required
- Testing during actual wet weather events is required once Ohio River Tunnel is commissioned



WWPS – Recirculation Mode for Startup Prior to Adit Connection





Bid Form, Contract Schedule

Bid Form 1800G

Item	Description	Quantity	Unit	Unit Price	Extended Total Amount
01	WWPS CONSTRUCTION LUMP SUM WORK	1	LS		\$
02	DRILLED MICROPILES	9003	VLF		\$
03	STATIC COMPRESSION AND TENSION VERIFICATION PILE LOAD TESTS	2	EA		\$
04	PRE-EXCAVATION GROUT HOLD DRILLING IN SOIL	3,255	LF		\$
05	PRE-EXCAVATION GROUT HOLE DRILLING IN ROCK	10,590	LF		\$
06	PROBE HOLE DRILLING IN ROCK	2,700	LF		\$
07	SHAFT PRE-EXCAVATION GROUTING EXCLUSIVE OF GROUT MATERIALS	600	CREW HOURS		\$
08	CUT-OFF GROUTING EXCLUSIVE OF GROUT MATERIALS	100	CREW HOURS		\$
09	INITIAL SUPPORT SPOT ROCK DOWELS	2050	LF		\$
10	ALTERNATIVE 1 CONNECTION TO ORT CONTRACT DEWATERING TUNNEL	1	LS		\$
11	ALTERNATIVE 2 CONNECTION TO ORT CONTRACT DEWATERING TUNNEL	1	LS		\$
12	SPECIFIC ALLOWANCE #1 – DISPUTE REVIEW BOARD (DRB)	250,000	USD	N/A	\$
13	SPECIFIC ALLOWANCE #2 – STOPPAGE TO SLURRY WALL TRENCH EXCAVATIONS	250,000	USD	N/A	\$
14	SPECIFIC ALLOWANCE #3 – DRILLING THROUGH OBSTRUCTIONS FOR MICROPILE INSTALLATION	50,000	USD	N/A	\$
15	SPECIFIC ALLOWANCE #4 – DISPOSAL OF OTHER CONTAMINATED WASTE	500,000	USD	N/A	\$
16	SPECIFIC ALLOWANCE #5 – NON-COMPLIANT GROUNDWATER DISPOSAL	100,000	USD	N/A	\$
17	SPECIFIC ALLOWANCE #6 – HANDLING AND DISPOSAL OF LEAD-BASED COATINGS AND ASBESTOS-CONTAINING MATERIALS (ACM) (GREATER THAN I PERCENT ASBESTOS)	25,000	USD	N/A	\$
18	SPECIFIC ALLOWANCE #7 – EXCAVATION OF "HARD SLAG" REMOVAL	1,000	CY		\$

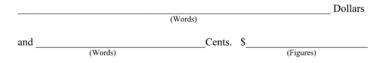
Brown and Caldwell

Item	Description	Quantity	Unit	Unit Price	Extended Total Amoun
19	SPECIFIC ALLOWANCE #8 – EXCAVATION AND DEMOLITION OF UNFORESEEN CONCRETE, MASONRY, AND OTHER MANMADE OBSTRUCTIONS	200	CY		\$
20	SPECIFIC ALLOWANCE #9 – CONTINGENT UNCLASSIFIED EXCAVATION	2,000	CY		\$
21	SPECIFIC ALLOWANCE #10 – CONTINGENT PLACEMENT OF BACKFILL MATERIAL	2,400	CY		\$
22	SPECIFIC ALLOWANCE #11 – ADDITIONAL RESIDUAL WASTE SOIL DISPOSAL	14,400	TONS		s
23	SPECIFIC ALLOWANCE #12 – ACID PRODUCING ROCK DISPOSAL	43,400	TONS		s
24	SPECIFIC ALLOWANCE #13 - GROUT MATERIALS USED FOR PRE-EXCAVATION GROUTING AND CUT-OFF GROUTING	250,000	USD	N/A	s
25	SPECIFIC ALLOWANCE #14 – UNFORESEEN UTILITY REMOVAL AND RELOCATION	100,000	USD	N/A	\$
	TOTAL OF EXTENDED IT LISTED ABOVE (Su	s			

Contract No.1800 G

8.2 Base Bid Summary:

TOTAL BASE BID:



56

Bid Forms for 1800E, H and P

BASE	E BID.	5	8.	BASE BID.
8.1	Lump Sum Work: Bidder further agrees to accept as full payment for the Lump Sum Work proposed within the Bidding Documents based upon the undersigned's own estimate of quantities and costs and including sales, consumer, use, and other taxes, except as provided below, and overhead and profit, for CONTRACT NO. 1800 E the following lump sum of: 			8.1 Lump Sum Work: Bidder further agrees to accept as full payment for the Lump Sum Work proposed within the Bidding Documents based upon the undersigned's own estimate of quantities and costs and including sales, consumer, use, and other taxes, except as provided below, and overhead and profit, for CONTRACT NO. 1800 P the following lump sum of:
	(Words) (Figures)			(Words) (Figures)
		8		 BASE BID. 8.1 Lump Sum Work: Bidder further agrees to accept as full payment for the Lump Sum Work proposed within the Bidding Documents based upon the undersigned's own estimate of quantities and costs and including sales, consumer, use, and other taxes, except as provided below, and overhead and profit, for CONTRACT NO. 1800 H the following lump sum of:
				Dollars
				and Cents \$

(Words)

(Figures)

57

Brown and Caldwell

8.

Questions

ATTACHMENT – B

Pre-Bid Meeting Attendance Sheet

PROJECT: Wet Weather Pump Station	CONTRACT NO. 1800
DATE: Wednesday, June 11, 2025	TIME: 10:30 A.M.

	NAME	AFFILIATION	PHONE	E-MAIL
1	Jeff Argyros	ALCOSAN	(412) 734-6281	jeff.argyros@alcosan.org
2	Matt Gilfillan	ALCOSAN	(412) 734-8361	matthew.gilfillan@alcosan.org
3	Joe Tripodi	ALCOSAN	(412) 734-8709	loseph.tripodi@alcosan.org
4	Tyler Trainor	ALCOSAN	(412) 766-4810 x8232	tyler.trainor@alcosan.org
5	WIM MARQUAROT	J.F. SHOR CONT. Int	(508)277-1660	Jim, MARQUERT CJESNER. COM
6	Matt Quer	Scharabel	(925)222-0313	Mover@schnabel-eng.com
7	Heather Dolson	BC	(418)5199217	hoodsing bruncald. com
8	JEFF 14FT	BC	(216)606-1316	Jiff+ Dtruncald.com
9	Barce BALL	BC	()	Eballabruncald.com
10	ROD SHOULDERS	JUC	(210) 739 9570	rshouldesse pydee.u
11	Jamas Undicelli	Tay Dec Contractors	(216)870 67-15	- jundicelli @ jaydee us
12	PAUL HANGLEY	SBB USA Construction	(724)265-4680	phartler Ostikunusa. Lom
13	Figu WARNER	Fay	(724)265-4600	RUNGNOR DISFACO. COM
14	CRAIG HAMILTON	KEILER-NA	(804)405-3208	Craige Hamilton @ KELLER-NA Kan

PROJECT: Wet Weather Pump Station	CONTRACT NO. 1800
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	NAME	AFFILIATION	PHONE	EMAIL
15	Chris Detewa	Toseph B. Fay	(417) 471-4200	KOG ODELLEWQE Shikunusa.com
16	Charles Zugell	36 BUGA Construction	(412) 665-6112	czugell@hikumsa.com
17	ANDY GRAFF	OSCAR REPOA	(413)(31-1000	Bidding teom @ SOUTH UAN DHOLDS. Com
18	SCOTT VARLO	SSM	(412)965-9264	
19	Hunter Barone	95 M		hbarone smi.biz
20	Mike Fitz Gerald	Brave + Caldwell		MAZgerald10 brunc-1d.com
21	AL LASH	Clista Electric	(873) 208 5096	alosheclista electric com
22	Craig Robesh	Wellington Power	(412)287-3398	Crobast Quellington power cow
23	JOSH MICHULKA	Wellington Power	(412) 302-2260	j'michulke @wellingtonpower.com
24	DAVID SPAND	Brayman	(412)585-7326	
25	Denny Marcy	BANYMAN	(878) 250-0322	ESTAMATIRG BRAYMAN CON L-March @ brayman. com.
26	NATT FLEURY	MASCARD	(412) 321-4901	KFLEURY CMAKANOLOWIRD CTU
27	Day DeChicchi's	Mascaro		ddechicchis@ construction.com
28	PAT GARIN	NTE	(24) 344 6971	Jehrine nterents.com

PROJECT: Wet Weather Pump Station	CONTRACT NO. 1800	
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	NAME	AFFILIATION	PHONE	EMAIL
29	JOHN WISZ	NICHOLSON	(412) 389-1604	john-wise enicholson construction com
30	Willism Beck	Nicholson	(412) 720-3829	William. berlichscholom construction
31	Greg Franz	Trumbull Corporation	(412-1292-8312	greg. Franz Otrumbullcorp. Com
32	Harry Hardman	Trumbull Corporation 3 Rivers Tunnel Constructors A Joint Venture	(412) 807-2150	hhardman strumbullcorp. com
33	GREET COSTIA	WG TOMKO	(74) 348-200	guestass @ wytomko. Lon
34	DAN PAULOVICH	WAYNE CROUSE, LIX	(724)601-0994	dpaulovich e wayne wouse can
35	FRED VOGT	WAYNE CROUSE, INC	(412)398-0271	frigt @ waynecrose.com
36	Mille Culpertson	Keller	(330)413.1787	mike culbertson ekellerna, com
37	KEN PAYTAS	NATIONAL SAFETY	(412) 352.2534	KEW EAL PRYTANC NTSAFETY. CON.
38	Pavid Whitlatch	A+A Consultant	(724)635-9543	
39	Jen Kilburn	A&A Consultants	(724) 635-954	
40	Mac Ross	JF Shea	(814)404 4778	Mac. ross @ Sfshca.com
41	Mike Lackey	MOSITES CONST.	(412)923-2255	mikel@ mosites.com
42	Delab Luarte	Obayash;	(650)619-6382	Jacob Luarte Cobayashi-usa, Com
43	Dankelly	Multivista	4122954292	d. Kelly Cmultivista. com
	-1 /			1

PROJECT: Wet Weather Pump Station	CONTRACT NO. 1800	
DATE: Wednesday, June 11, 2025	TIME: 10:30 A.M.	

	NAME	AFFILIATION	PHONE	EMAIL
44	Hoyden Nevel	Sargent Electric	(412) 523-1786	house Oscigentelectric.com
45	ERIC MORA	SARGENT ELECTRIC	(412) 354-7870	emora@pargenteledric.com
46	SAAWNA MUNN	AECON GROUP	()	SMUNN@aecon.com
47	COREY HALL	n	()	Chall @ alcon. com
48	GIL BERRY	GIL BERRY HASSOCME	(412720-1448	GLUBERRY 60 CYMAIL, C
49	LOENE BERRY	GILBERRY + ASSOCIATE	5 412 996-0274	LORNE. BERRY, EGUBERRYAS
50	Ronie Gizman	Obarpashi corp.	(AR) 504 9362	ronie guzman @ dayoshi-usor. com
51	STUART Summe		(512) 470-02 37	STUART. SULLIVAN CO
52	Donna Chappel	AIG	(412) 7220065×24	2 AIGCONTROLS COM
53	Steve McMannis	Mele & Mele & Sons	(412)606 3863	SMCMANTS Meleine.com
54	RALPH J. PACONE	GOETTLE	412,298 9139	pagone goettle.com
55	MICA ROANEY	PUDICK		Mike roarine pichek. un
56	Jach Reinert	Thoroughbert	(724)8/6 6378	Mike roarly@ pick. un ireinert & thetegelettic. com
57	JOSEPH RESTER		(412)788-6415	JRESTELI Q THETCO ELETTIC
58	BRAD Zook	MACHAEL BAKEL JUTL	(TIT) 320 468Z	bradley, Zooke mbakerintl.com

PROJECT: Wet Weather Pump Station	CONTRACT NO. 1800
DATE: Wednesday, June 11, 2025	TIME: 10:30 A.M.

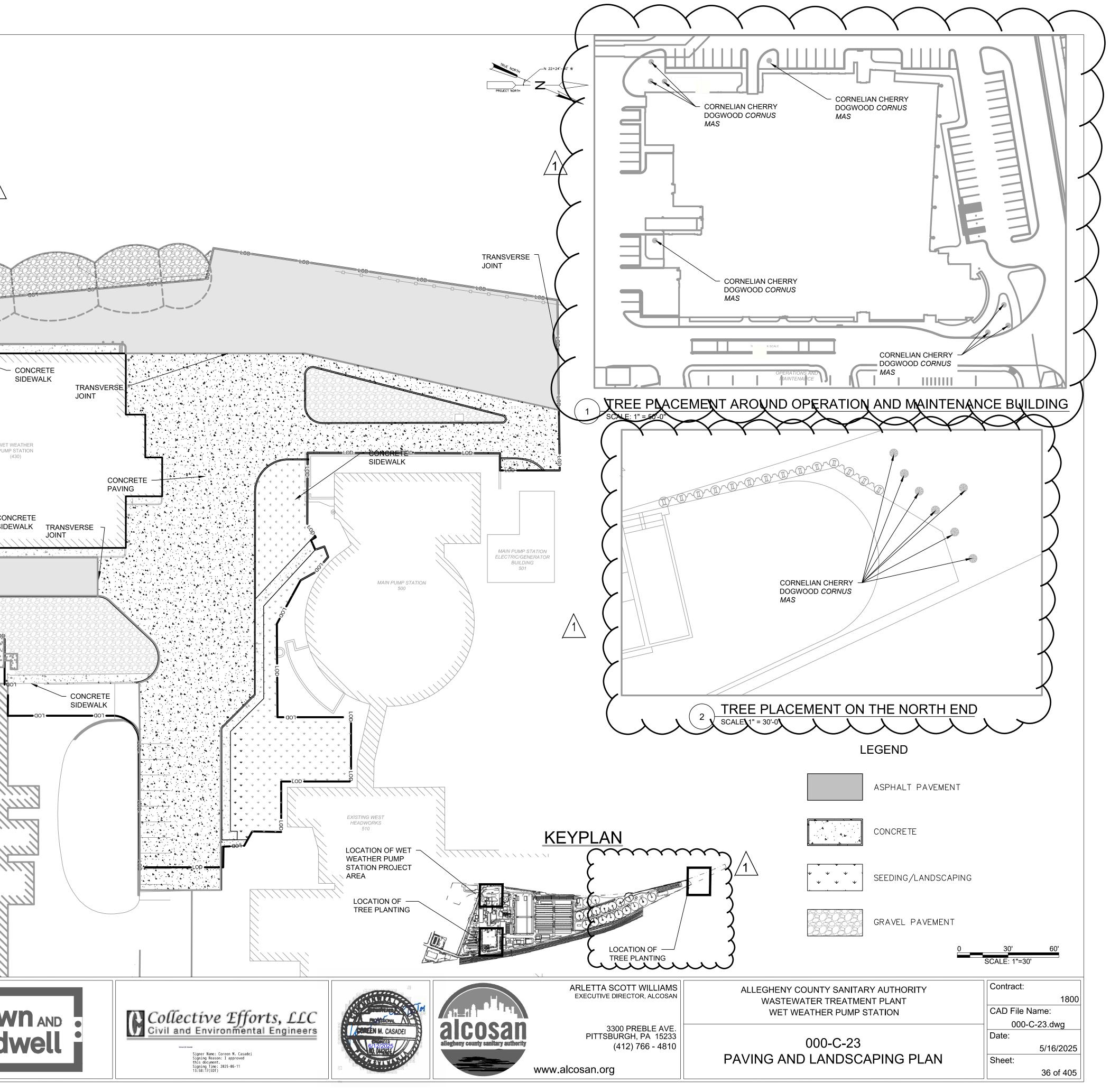
	NAME	AFFILIATION	PHONE	EMAIL
59	FRANK ZOTFOLA	IN DERENDENCE EXCANALLY	(412)728-6199	fzottola@indexc.com
60	GARY Guy	any's Mechanical Exstens	(724)873.4390	garyeguya mach. com
61	RYAN VAZ	PJPICK	(724) 384 460 0.	ryamay@pidick.com
62	Ber Jacobs	Independence Exchanting	(412) 804-8170	bjacobs@indexc.com
63	Beth Joyce	ALCOSAN	(412 734-8719	beth joyce calcoson or
64	Socretx	Xylam	8121266 0813	
65	Scoff DeBacia	Kirlen	(330) 301 9509	Scott Jebacco Qxylem. con
66	Javed Cardhas	Kylem	(411) 3340469	Ford Carallas Gaylon can
67	Ryan Novelli	Independent Enterprises	(412)715-9733	RNovelli Gieionet.co
68	Scott Purston	RED SLOW GLOUD	(724)325-1215	S. PILSPON @ZEDSWING GLOUP. CO
69	latere Sciuli	Mosites	(412) 2877-5310	alenzos Gmosites.com
70			()	
71			()	
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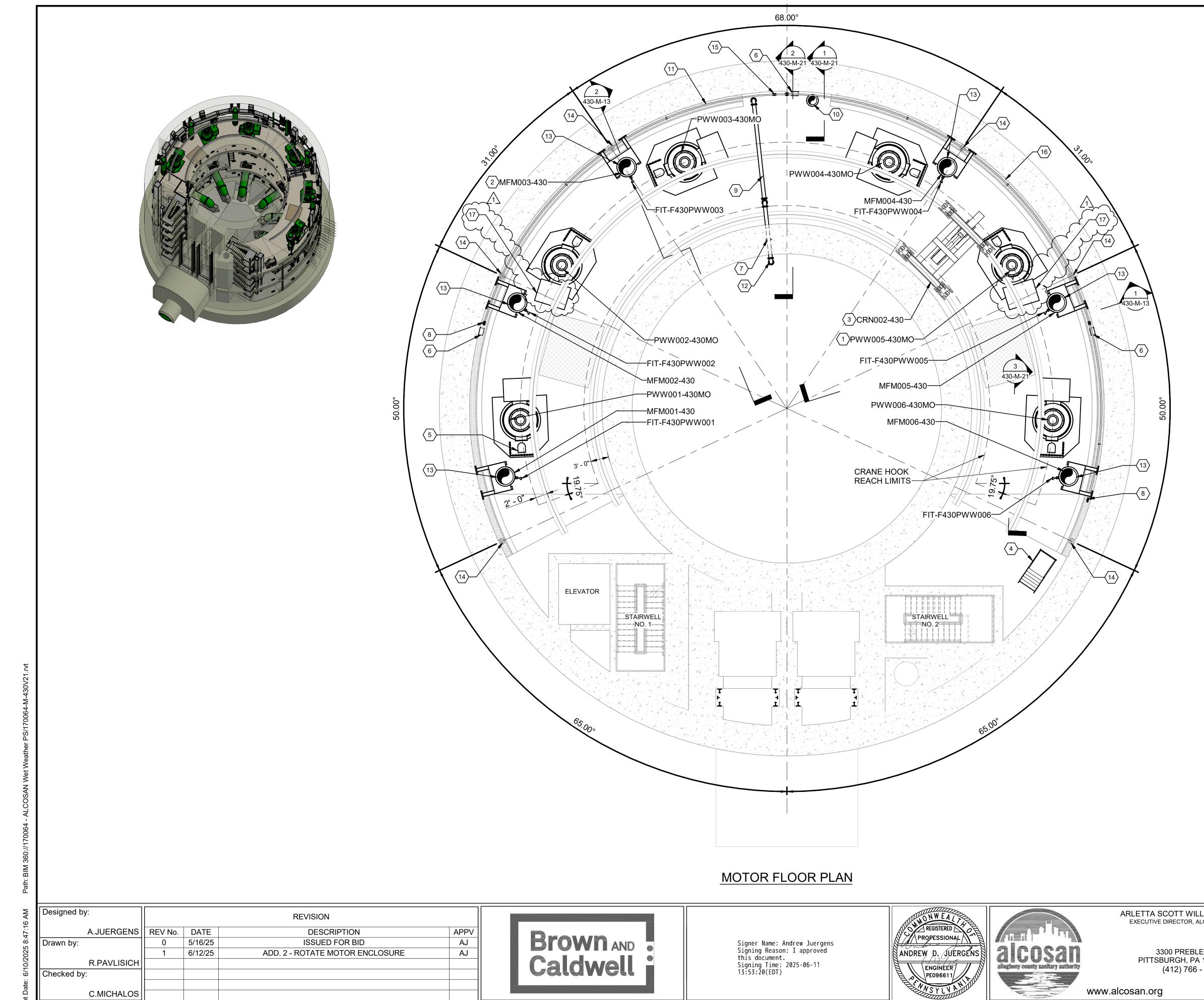
Today's Date: 06/11/2025 Allegheny County Sanitary Authority **Contract 1800 – Wet Weather Pump Station** PRE-BID MEETING SIGN-IN - LOZE SHED UISIT Name Company Email Phone Number 1. STUNK Summe OSKATT STUNK. SULLING CBAY 15 AL - 15 A. 2. COREY HALL AECON CHALL CRECON. COM 3. SHAWNA MUNN AECON SMUNN@AECON. COM 4. Chris Deklewa Tooph B. Foy cdeklewae shikunusa. com 5. 6. 7. 8. 9. 10. 11. 12. 13.

ATTACHMENT – C

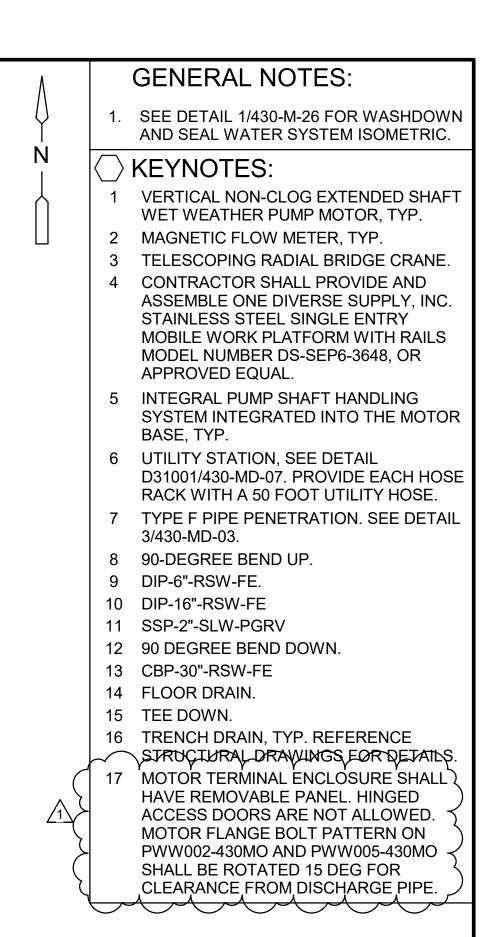
Addendum No. 2 Drawings

	SUMMARY OF TREE		ר ר]
			SUMMED DIAMETER OF	_
		DIAMETER (INCHES)	TREES (INCHES)	_
GINKGO BILOBA GINKGO BILOBA	GINKO GINKO	12 15	_	
GINKGO BILOBA	GINKO	18	57	
QUERCUS RUBA	RED OAK	12		
	SUMMARY OF TREE	S TO BE PLANTED		
BOTANICALMAME	COMMON NAME	BAMETER (INCHES)	SUMMED DIAMETER OF TREES (INCHES)	$ \land $
15 CORNUS MAS 'GOLDEN	15 CORNELIAN CHERRY	3-5	60	
GLORY'	DOGWOOD	5-5		
	XXX		OHIO RIVER NORMAL POOL ELEVATION = 710	
		+		
ELECTRICAL				
SUBSTATION 650				aaaaaaa L
		CT C	Land.	
		E .		- cc
			•	SI
			•	
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	×,			
	-x / /			PUMP STA (430)
X	The second secon		•	- STRUCTURAL
_ X		°7		CONCRETE
				SIDEWA
	x +			
				XXXXXXXXXX
			7, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2,	20202020202020202020202020202020202020
				<u></u> iନ
			× Ľ ‰////////////////////////////////////	TOD
	TRANSVERSE		ENERGY RE FACILI	TY
	JOINT	гор гор	410	
			EXISTING CONCRETE	
			PAVING	
/				
				77/. 147
				/// ///
	<u>- 1980 (1987) (1997) - 1997) (1997) (1997)</u>			
	•			
Designed by:		REVISION		
RE	V No. DATE	DESCRIPTION		
L.SPRANKLE	0 5/16/25		CC	Browi
L.SPRANKLE	0 5/16/25	DESCRIPTION ISSUED FOR BID	CC	Browi
L.SPRANKLE	0 5/16/25	DESCRIPTION ISSUED FOR BID	CC	Brown Caldw

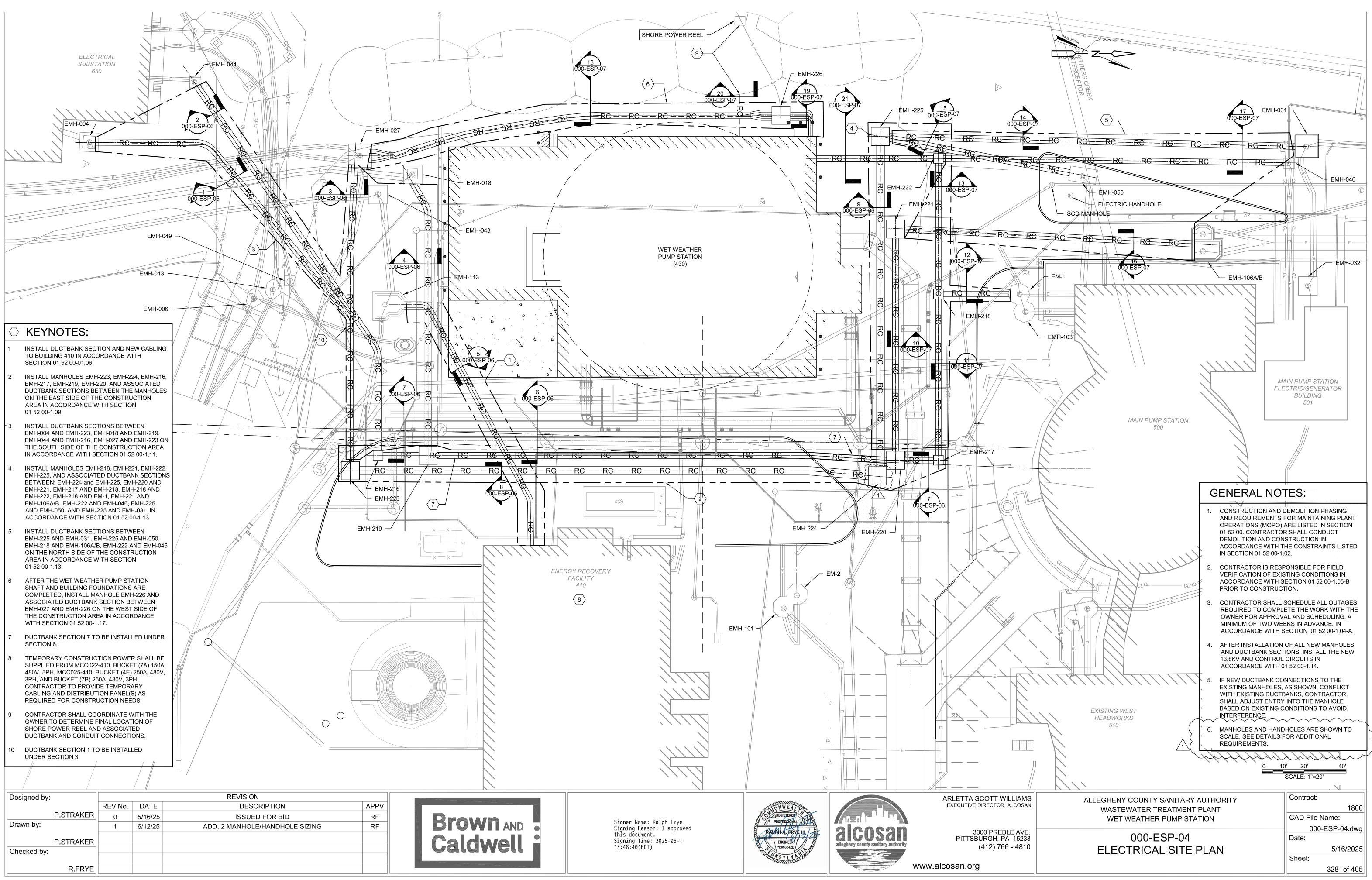




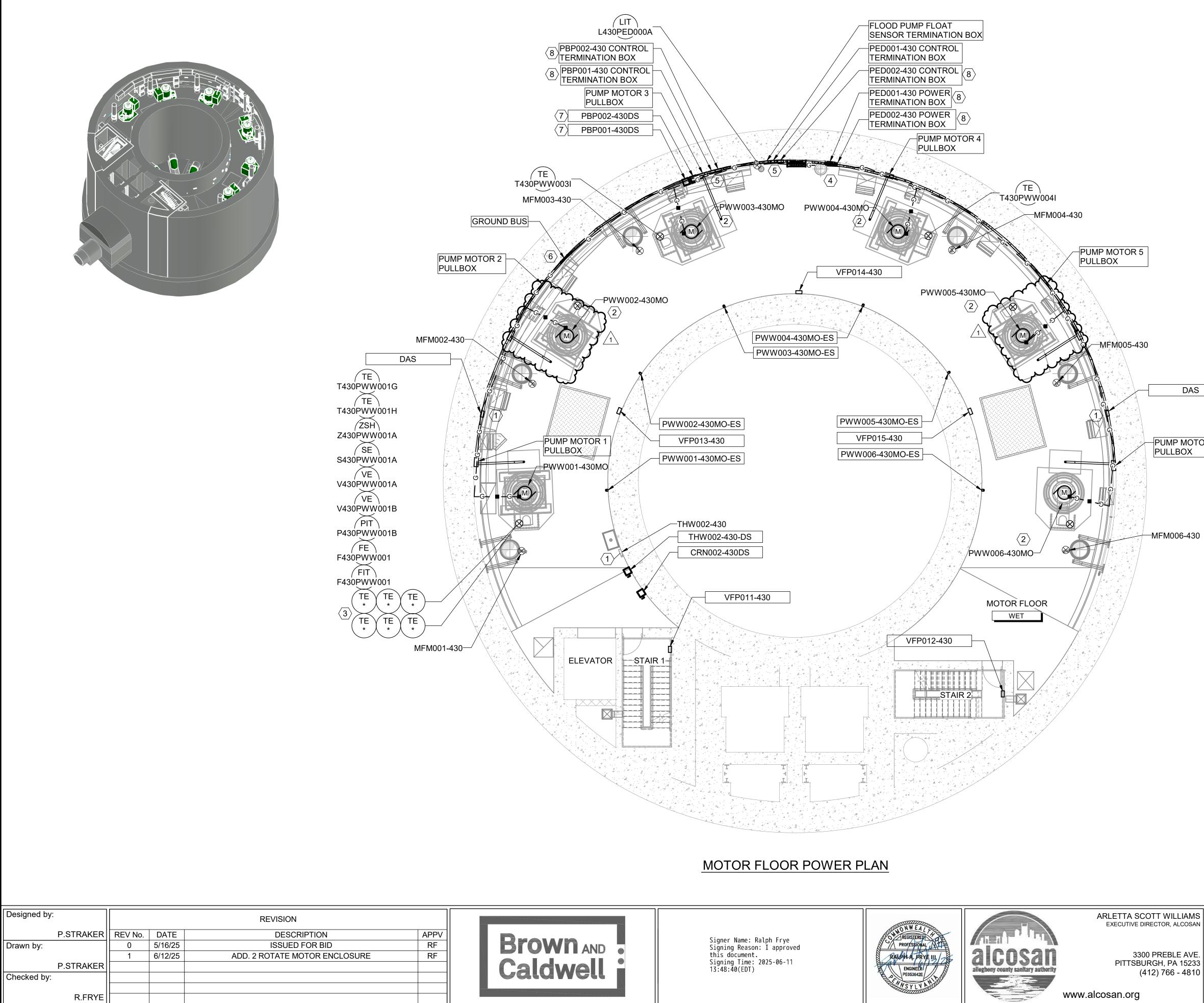
3300 PREBLE PITTSBURGH, PA 1 (412) 766 -



	SC	CALE : 1/8" = 1'-0"
.IAMS COSAN	ALLEGHENY COUNTY SANITARY AUTHORITY WASTEWATER TREATMENT PLANT WET WEATHER PUMP STATION	Contract: 1800 CAD File Name:
E AVE. 15233 4810	430-M-03 MOTOR FLOOR PLAN	Date: 5/16/2025 Sheet: 221 of 406



esigned by:						
		REV No.	DATE	DESCRIPTION	APPV	
	P.STRAKER	0	5/16/25	ISSUED FOR BID	RF	Dwa
awn by:		1	6/12/25	ADD. 2 MANHOLE/HANDHOLE SIZING	RF	Dr
	P.STRAKER					Ca
necked by:						Val
	R.FRYE					



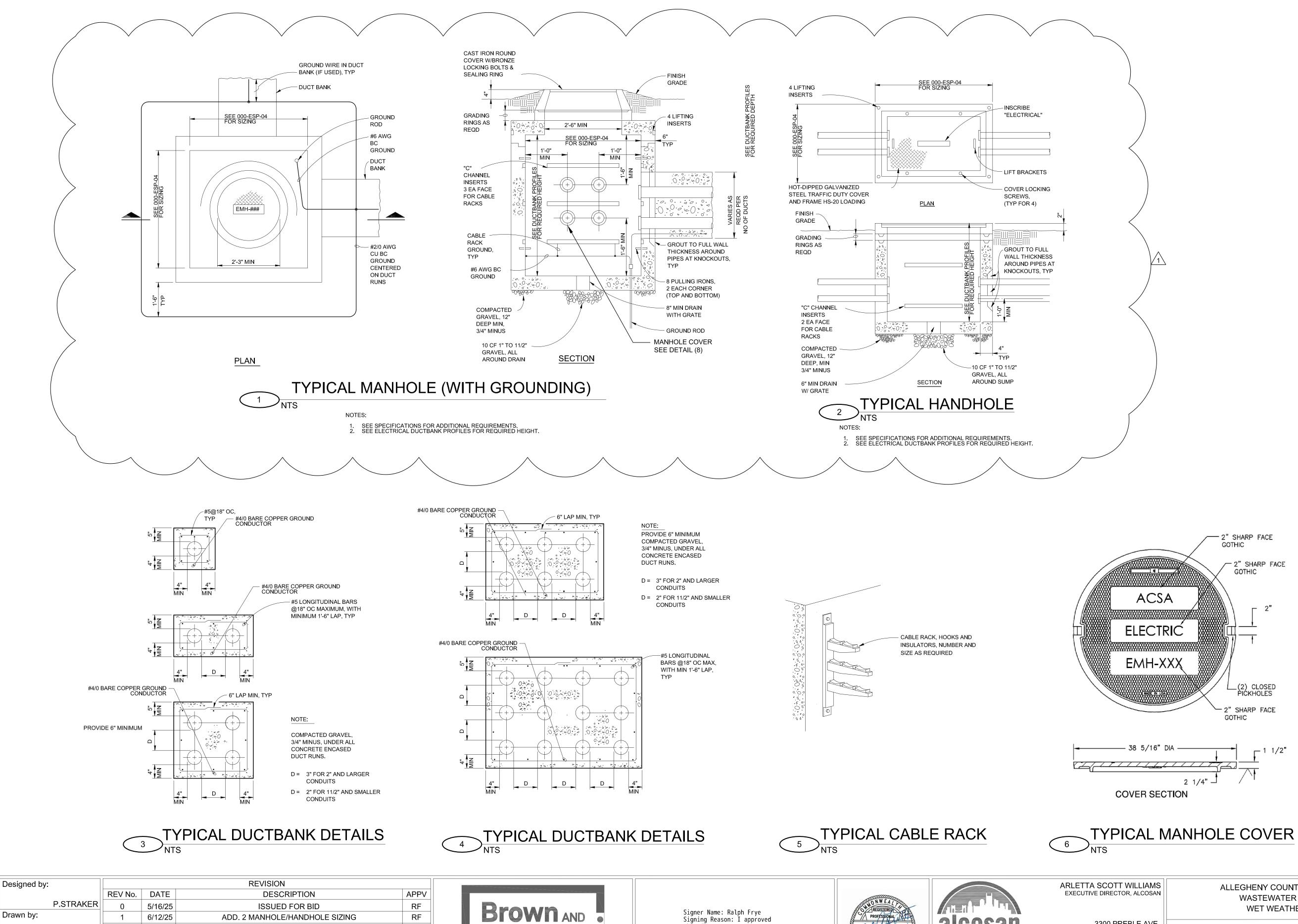
-						
G	ENERAL NOTES:					
1. ALL CONTRACTOR PROVIDED ELECTRICAL EQUIPMENT ON THIS LEVEL SHALL BE RATED NEMA-4X.						
M	ROUND JUMPERS TO THE GROUND RINGS ON ALL AG METERS IN ACCORDANCE WITH ANUFACTURER'S RECOMMENDATION.					
\bigcirc	KEYNOTES:					
1	COORDINATE WITH ALCOSAN AND OTHER DISCIPLINES REGARDING FINAL LOCATIONS FOR ANTENNAS.					
2	WET WEATHER PUMPS PWW002-430, PWW003-430, PWW004-430,PWW005-430, AND PWW006-430 TYPICAL OF PWW001-430 WITH INSTRUMENTS TE, ZSH, SE, VE, PIT, FE, AND FIT.					
3	FOR MOTOR WINDING LOOP NUMBERS (*) REFER TO SECTION 40 61 97 INSTRUMENT LIST.					
4	CONNECT POWER TERMINATION BOXES TO GROUND RING WITH #2/0 AWG WIRE.					
5	CONNECT CONTROL AND FLOAT SENSOR TERMINATION BOXES TO GROUND RING WITH #14 AWG WIRE.					
6	CONNECT TO DISCHARGE PIPING FLOOR GROUND BUS WITH 4/0 BARE COPPER GROUND CONDUCTOR.					
7	DISCONNECTS PROVIDED BY OTHERS. CONTRACTOR SHALL INSTALL DISCONNECTS.					
8	TERMINATION BOXES PROVIDED BY OTHERS. CONTRACTOR SHALL INSTALL TERMINATION					

BOXES.

DAS

-PUMP MOTOR 6

SCALE : 1/8" = 1'-0" Contract: ALLEGHENY COUNTY SANITARY AUTHORITY 1800 WASTEWATER TREATMENT PLANT WET WEATHER PUMP STATION CAD File Name: 430-ET-03 Date: MOTOR FLOOR POWER PLAN 5/16/2025 Sheet: 359 of 413



Designed by.				IL VISION		
		REV No.	DATE	DESCRIPTION	APPV	
	P.STRAKER	0	5/16/25	ISSUED FOR BID	RF	Desure
Drawn by:		1	6/12/25	ADD. 2 MANHOLE/HANDHOLE SIZING	RF	Brown
	P.STRAKER					Caldwe
Checked by:						
	R.FRYE					

3300 PREBLI PITTSBURGH, PA (412) 766

www.alcosan.org

allegheny county sanitary authority

Signer Name: Ralph Frye Signing Reason: I approved this document. Signing Time: 2025-06-11 13:48:40(EDT)

REGISTERED PROFESSIONAL RALIDH A. FRYE III PE053642E

VILLIAMS	ALLEGHENY COUNTY SANITARY AUTHORITY	Contract:
R, ALCOSAN	WASTEWATER TREATMENT PLANT	1800
	WET WEATHER PUMP STATION	CAD File Name:
		430-ED-03.dwg
BLE AVE. PA 15233	430-ED-03	Date:
6 - 4810	PROJECT DETAILS 1	5/16/2025
		Sheet:
		363 of 405