



CITY OF PROVIDENCE, RHODE ISLAND

**Department: Providence Water**

**RFP Title: Western Johnston High Service Expansion (Site Work) - Contract 2 (Exp. 12/31/24)**

**Opening Date: 05/22/2023**

**Addendum #: 2**

**Issue Date: 05/11/2023**

The purpose of this addendum is Revisions, clarifications, additions and/or deletions.

**ADDENDUM NO. 2  
FOR  
WESTERN JOHNSTON HIGH SERVICE EXPANSION – (Site Work)  
CONTRACT 2 (Expires 12/31/24) JOHNSTON, RHODE ISLAND  
PROVIDENCE WATER SUPPLY BOARD  
MAY 11, 2023**

Inclusion of this Addendum must be acknowledged by the bidders by inserting its number on the appropriate line on Page 3 of the Bid Form (Section 00310). Failure to acknowledge any and all addenda in the above specified bid form may be cause for rejection of the bid by the Providence Water Supply Board, on the grounds that the bid is not responsive.

The following revisions, clarifications, additions and/or deletions, are hereby made as part of the Bid Documents for the Central Avenue Transmission Main Installation project.

A pre-bid meeting was held on April 18, 2023, at the Philip J Holton Water Purification Plant in Scituate, Rhode Island.

**CONTRACT CLARIFICATIONS**

1. A pre-conditions survey will be performed under Contract 2 in accordance with the General Conditions of the contract. This will include a boundary survey for the property prepared by a Rhode Island licensed professional land surveyor.
2. Clearing/grubbing and rough grading work shall be completed under Contract 2 within (60) days following the Notice to Proceed.
3. It will be the responsibility of Contract 2 Contractor to obtain the electrical, mechanical, and plumbing permits.
4. Any excavated soil at the Site shall remain on-site. Rocks will be transported from the Site.
5. A Bid Bond form is attached to this addendum.

**CONTRACT SPECIFICATIONS**

• **00310 – BID FORM**

1. Replace Specification 00310 in its entirety with Revised Specifications 00310 – Bid Form (Addendum No. 4) attached to this addendum.

Please note that the following modifications have been made to the Bid Form:

- Add Bid Item No. 18 - Detention Basins.
- Under Bid Item No. 26 – Unknown Conditions Allowance, replace Unit Bid Price with \$400,000.

• **001150 – MEASUREMENT AND PAYMENT**

1. In Article 2.01.A.1, under Site Mobilization and Demobilization (Bid Item No. 1), measurement for Mobilization shall also include a pre-conditions survey and a boundary survey of the property prepared by a Rhode Island licensed professional land surveyor”.
2. Add the following Section under PART 2 – PRODUCTS on page 10:

“2.19 DETENTION BASINS (BID ITEM NO. 18)

A. Measurement

1. Payment for this work shall be measured as specified at the per Each price for complete installation of the detention basins, including: all earthwork associated with the detention basin installation and all incidental work required for complete installation of the detention basins as indicated in the Specifications and included on the Contract Drawings.

B. Payment

1. Payment for this item shall be made at the per Each price listed on the Bid Form.”

- 02220 – EARTHWORK

Section 3.07 – COMPACTION states that compaction testing of utility trenching shall be done at intervals of 50 feet at each backfill layer. Cost for compaction testing is included in the various bid items whether or not directly called for in the contract documents.

- 13103 – ELECTRICALLY ACTUATED BUTTERFLY VALVE

1. Replace Article 2.2.A on page 1 in its entirety with “The actuator shall be Beck model 11-460 and shall be fed via 120 V, 60 Hz, single phase power.”

## CONTRACT DRAWINGS

- SHEET 4.0 – SITE PLAN

Replace sheet C3.0 in its entirety with Revised Sheet C4.0 – Site Plan (Addendum No. 4). The revised sheet is attached to this addendum.

Please note that the following changes have been made to the sheet:

1. For callouts concerning the 6’ ornamental fence, replace with “6’ high black vinyl chain-link fence;
2. Remove callout “Contractor to remove boulders” from sheet;
3. Add top of wall (TOW) and bottom of wall (BOW) elevations to retaining walls;
4. Remove TP-1 from sheet; and
5. Replace TP-2 with “TH-7”.

- SHEET C5.0 – DRAINAGE & UTILITY PLAN

Replace Sheet C5.0 in its entirety with Revised Sheet C5.0 – Drainage & Utility Plan (Addendum No. 4) attached to this addendum.

Please note that the following changes have been made to the sheet:

1. Remove call-out “Inv.= 439.5’±” located in Detention Basin No.1;
2. Adjust “Precast H-20 Loading 1’x1’ Reinforced Concrete Box Culvert” callout arrow to reflect correct culvert location on plan sheet and replace with “Precast H-25 Loading Reinforced Concrete Box Culvert w/ headwall”;
3. Add flared end section at outlet of box culvert with callout “Flared end section inv. = 444.3 ± (see detail)”;
4. Replace the callout for the Detention Basin No. 1’s 1” discharge pipe with “1” HDPE discharge pipe w/ riprap inv. = 442.75”; and
5. Add the following callout to Sedimentation Forebay No. 1 & 2 – “Seed bottom with New England Wetmix (wetland seed mix). Seed side slopes with New England Conservation/Wildlife Mix”.

- SHEET C7.1 – DETAILS 1 (Contract 2 related modifications are italicized)

Replace Sheet C7.1 in its entirety with Revised Sheet C7.1 – Details 1 (Addendum No. 4). The revised sheet is attached to this addendum.

Please note that the following changes have been made to both sheets:

1. Remove pH and Chlorine Analyzers;
2. Remove Chlorine Analyzer Waste Drain Detail;
3. Remove “P” Trap Detail;
4. Remove Process Flow Schematic – pH & Chlorine Analyzer Detail; and
5. Add multiparameter chlorine sensor along interior piping with the following callout “Halogen Systems Multiparameter Chlorine Sensor w/ removal system, wet tap model: WT-01. Sensor shall be integrated with proposed RTU (included in Contract 2)”.
6. Add note to Valve Plan: “Chlorine sensor to be located in a straight length of pipe at least 1.5 times the pipe diameter”; and
7. *Replace overhead door callout with “12’ wide overhead door”.*

- SHEET C7.3 – DETAILS 3

Replace Sheet C7.5 in its entirety with Revised Sheet C7.3 – Details 3 (Addendum No. 4). The revised sheet is attached to this addendum.

Please note that the following changes have been made to both sheets:

1. Add detail “Typical Section – Unreinforced Retaining Wall”; and
2. Add detail “Access Road Detail”.

- SHEET C7.5 – DETAILS 5

Replace Sheet C7.5 in its entirety with Revised Sheet C7.5 – Details 5 (Addendum No. 4). The revised sheet is attached to this addendum.

Please note that the following changes have been made to both sheets:

3. Replace Cantilever Gate Detail with “Typical Single Cantilevered Gate Detail”; and
4. Replace Ornamental Fence Detail with “Chainlink Fence Detail”.

## **QUESTIONS**

- 1. Appendix F contains Test pit logs for TH #'s 3, 5, & 7. Appendix E contains and aerial view with locations for TH #'s 1 through 6. Please provide missing logs for TH #'s 1, 2, 4, & 6. Please indicate location of TH #7.**

Appendix F – Access Road Test Pit Logs were performed by Pare and all information gathered for the access road test pits (TH-3, 5 & 7) can be found in Appendix F. Appendix E – Soil Evaluation Report was performed by Avizinis Environmental Services, Inc. and all information gathered for the OWTS and drainage test pits (TH-1, 2, 4, & 6) can be found in Appendix E.

TP-1 has been removed from the Project plans and TP-2 has been re-labeled as TH-7.

- 2. Please indicate the TH locations on the Project Site plan so that their locations are shown relative to the proposed utilities and other site features.**

All TH locations are now indicated on sheets C4.0 – Site Plan and C5.0 – Drainage and Utility Plan.

- 3. Please provide information relative to the nearest established survey control point that the contractor should anticipate using in order to extend control on to the Project Site.**

Pre-condition and property surveys shall be performed under Contract 2. This work will be incorporated into Bid Item No.1 – Site Mobilization and Demobilization.

- 4. Will there be electronic files containing an established survey coordinate system for the project made available to the Contractor?**

No, but Pare can provide the AutoCAD drawing file of the site to the bid winner once the project is awarded.

- 5. Which Contractor (Contract #1 or #2) is responsible for the excavation, subgrade preparation, and soil testing for the new water storage tank foundation?**

Contract 1 is responsible for the excavation, subgrade preparation, and soil testing for the new storage tank foundation. This will also include the installation of the mat foundation.

- 6. Please advise on the elevation of under slab plumbing, mechanical piping, and electrical elements of the project. Are they below the primary base slab or in the primary base slab?**

Mechanical piping will be below the primary base slab. Final elevations of under slab plumbing and electrical elements will need to be coordinated with Contract – 1.

- 7. If they are in the primary base slab then who is responsible for resolving conflicts with rebar?**

It will be the responsibility of Contract – 1 to resolve any conflicts with rebar.

- 8. The foundation elevation shown on C6.0 shows a primary base slab with 12” of gravel above the primary slab and a 6” finish slab on top of the gravel. Which Contract (#1 or #2) is responsible for the gravel layer and 6” topping slab?**

All foundation work will be under Contract – 1.

- 9. Is Lightning Protection a requirement? If so, by which Contract (#1 or #2)?**

Yes, under Contract 1.

- 10. Which Contract #1 or #2 is responsible for the Ground grid?**

Contract 1 will be responsible for the ground grid.

- 11. Drawings C4.0 and C7.5 Indicate a requirement for an Ornamental Fence. The specifications (02831) are written around a chain link fence. Please confirm what the fence requirements are for the Project.**

Black vinyl chain-link fence, 6-feet tall.

- 12. The plans indicate a cantilevered sliding gate. However, the proposed grading in the area of the gate does not appear to allow enough room for when it is in the open position. Please confirm the type of gate desired.**

The cantilevered sliding gate will remain. Grades will be adjusted in this area during construction.

- 13. The proposed details and heights of the proposed retaining walls are unclear. Please provide elevation drawings and sections with proposed grades for each of the proposed retaining walls.**

See revised sheets C4.0 – Site Plan and C.7.6 – Details 6.

- 14. Drawing C4.0 contains a note indicating that the 6ft ornamental fence is mounted on the Block Retaining wall. However, there doesn't appear to be any retaining wall in the area that the leader arrow points to. Please confirm the limits of ornamental fence that is to be installed on the retaining wall.**

Note indicating that the 6-foot ornamental fence mounted on the block retaining wall has been deleted. No fencing shall be installed on the retaining walls.

- 15. What are the dimensions of the Precast H-20 Loading Reinforced Concrete Box Culvert at Sta 1+30 +/- on sheet C5.0? Are there Headwalls or Flared ends at the ends of the box culvert?**

The box culvert will now be a precast H-25 loading reinforced concrete box culvert with dimensions = 1' x 1'. The Revised Sheet C5.0 – Drainage and Utility Plan shows a headwall and flared end section.

- 16. What size and type is the discharge drain pipe from Detention Basin 3? (Sta 100+85 +/- on sheet C5.0) The plan indicates it is 1".**

1" HDPE pipe.

- 17. On sheet C5.0, toward the southern end of Detention Basin 3, there is a callout of INV. = 429.5'+/- but it does not appear to point to any drainage feature or structure.**

The callout has been removed.

- 18. Detention Basin 2 shows a discharge pipe called out to be 25' – 1" HDPE PIPE, S=0.020FT/FT. Is that supposed to be 12" HDPE?**

No, the discharge pipe shall be 25' – 1" HDPE.

- 19. Detention Basin 1 shows a discharge pipe called out to be 30' – 1.5" HDPE PIPE, S=0.020 FT/FT. Is that correct, or is it supposed to be 18"?**

No, the discharge pipe shall be 30' – 1.5" HDPE.

- 20. Please confirm that all requirements of architectural elements are identified and provided on ONLY the drawings and that there are no separate specification requirements included as part of the contract.**

All requirements of architectural elements are identified and provided on the drawings only and there are no separate specification requirements included as part of Contract 2.

- 21. As I was reviewing the bid documents for the Western Johnston Service Expansion Contract 2, I noticed there was no sample bid bond form. I was wondering if there is a form you would like us to use (as we have in the past for previous Providence Water proposals) or if we should use our standard form. Please advise.**

See Bid Bond attachment.

- 22. Please advise on what pay item will be used to pay for the installation & removal of the 4" bypass pipe shown on Drawing C8.0.**

Bid Item No. 24. – Decommissioning of Existing Tank Allowance. Contractor shall use an RPZ backflow device for draining (RPZ to be provided by Contractor). The bypass piping will not need to be chlorinated.

- 23. Geotechnical Report Pg.14: Common Borrow should be imported, or in-situ material blended that conforms to M.01.01 of the State Standards as approved by the geotechnical engineer. This material shall have the physical characteristics of soils designated as group A-1, A-2, or A-3 under AASHTO M 145. \*\* QUESTION: Where would this material be placed? Slopes, Shoulders, Basins?**

Common borrow can likely be used on slopes and shoulders. It cannot be used within the tank footprint or the retaining wall footprint.

- 24. Geotechnical Report Pg. 15: Table 6.2 Table depicts standard duty paving with a base course of 6" and a subbase course of 8". The Road-way Section on plan C7.5 depicts 6" and 6" respectively. Clarification is requested.**

The roadway section on sheet C7.5 shows the Town of Johnston's typical street detail. This detail should be followed for the extension of the existing Cross Road. Page 15, Table 6.2 should be referenced for the Site's access road construction.

- 25. Pg. 8: Although, not anticipated, it should be noted that permanent groundwater/surface water controls will need to be considered for structures that are in tubs. \*\* QUESTION: If permanent controls be deemed necessary, would this paid for under Bid Item 25 – Unknown Conditions Allowance.**

Groundwater/surface water controls will be evaluated by the owner/engineer on a case-by-case basis.

- 26. Geotechnical Report Pg. 8: With multiple references to Glacial Till. 5.1 GENERAL – Paragraph 1 - Subparagraphs 2 & 4. \*\* QUESTION: Will glacial till serve as an adequate underlying strata to the paving subbase and base materials once proof rolled.**

Glacial till will not be an adequate paving base and subbase material due to high fines content. See Appendix D – Subsurface Investigation, page 15, under section 6.8 that states “Base and subbase course materials should meet the criteria for ‘Sand Gravel Fill’ and ‘Granular Fill’ ”.

- 27. With regard to the above question, would any necessary over excavation and backfill be paid for under Bid Item 25 – Unknown conditions Allowance.**

Over excavation and backfill material will be evaluated by the owner/engineer on a case-by-case basis.

- 28. Geotechnical Report Pg. 13: Permanent perimeter and underdrains should be designed when the FFE is within 5 feet of the observed groundwater. Special construction, vapor barriers, and waterproofing should be anticipated for recessed stairwells, elevator slabs/pits, and depressed slab areas. \*\* QUESTION: If underdrains are required at the tank foundation, would this scope of work be covered by Contract-1 or Contract-2.**

Groundwater impacts will be evaluated by the owner/engineer on a case-by-case basis.

- 29. With regard to Plan C7.5 Roadway Section Detail. This detail depicts curbing on both sides of the road and a stone/gravel pathway. The detail does not depict guard rail. Plan C4.0 depicts only guard rail. Is it the intent to have all three elements curbing / guard rail / stone pathway. If this is the case would curbing be granite or precast concrete?**

The detail on sheet C7.5 “Town of Johnston – Typical Street Cross Detail” is for the tie-in and continuation of the existing Cross Road. The contractor shall match existing roadway conditions.

An Access Road Detail has been added to sheet C7.3 – Details 3.

- 30. Does the landscape allowance include loam, seeding, erosion matting and planting per the plan or is this for additional landscaping above and beyond what is shown on the plans?**

Additional landscaping beyond what is shown in the plans.

- 31. Please confirm that the fence and guardrail are to be included in the site work item number 17 of the bid.**

Yes, fence and guardrail are to be included in Bid Item No. 17 – Site Work.

**32. Detail 3/83 on drawing E3.1 – drawing shows a quantity of (3) handholes but the schedule shows (4). Please clarify.**

The correct handhold quantity is three (3).

**33. Handhole size – schedule says 60”x48”x60” but detail says 36”x36”x48”. Please clarify.**

The correct handhole size is 36” x 36” x 48”.

**34. Could you please provide detail on the CP-1 and RB-1 on the floor finishes and base?**

Replace CP-1 with “EP-1” and replace RB-1 with “EB-1”.

**35. Could you please indicate the current fire alarm system that we will be tied into?**

Fire alarm system will be local only and tied in the tank’s RTU.

**36. Could you please provide a detail for the sediment forebays?**

See revised sheet C5.0 – Drainage & Utility Plan.

**37. Could you please provide a detail and specification for the geo grid parking spaces?**

The geogrid parking system shall be manufactured by EarthLock, product specification – EarthLock Hardscaping Geogrid EL130-660.

**PRE-BID MEETING ATTENDEES**

<b>Company</b>	<b>Address</b>
Statewide Aquastore, Inc.	6010 Drott Dr., East Syracuse, NY 13057
R. Zoppo Corp.	160 Old Maple St., Stoughton, MA 02072
Manafort Brothers Inc.	24 Martin St. Unit 10, Cumberland, RI 02864
R. P. Iannuccillo & Sons Construction	70 Calverley St., Providence, RI 02908
East Coast Construction	202 Chase Rd., Portsmouth, RI 02871
Providence Water Supply Board	125 Dupont Dr, Providence, RI 02907
Pare Corp.	8 Blackstone Valley Pl, Lincoln, RI 02865

## **ATTACHMENTS**

- 1.) Revised Specification 00310 – Bid Form (Addendum No. 4)
- 2.) Revised Sheet C4.0 – Site Plan (Addendum No. 4)
- 3.) Revised Sheet C5.0 – Drainage & Utility Plan (Addendum No. 4)
- 5.) Revised Sheet C7.1 – Details 1 (Addendum No. 4)
- 6.) Revised Sheet C7.3 – Details 3 (Addendum No. 4)
- 7.) Revised Sheet C7.5 – Details 5 (Addendum No. 4)
- 8.) Bid Bond
- 9.) Pre-Bid meeting Attendance Sheet

### 3.00 UNIT PRICES

### BID FORM

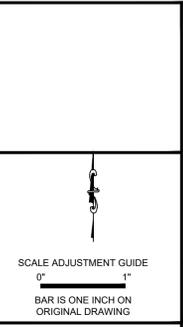
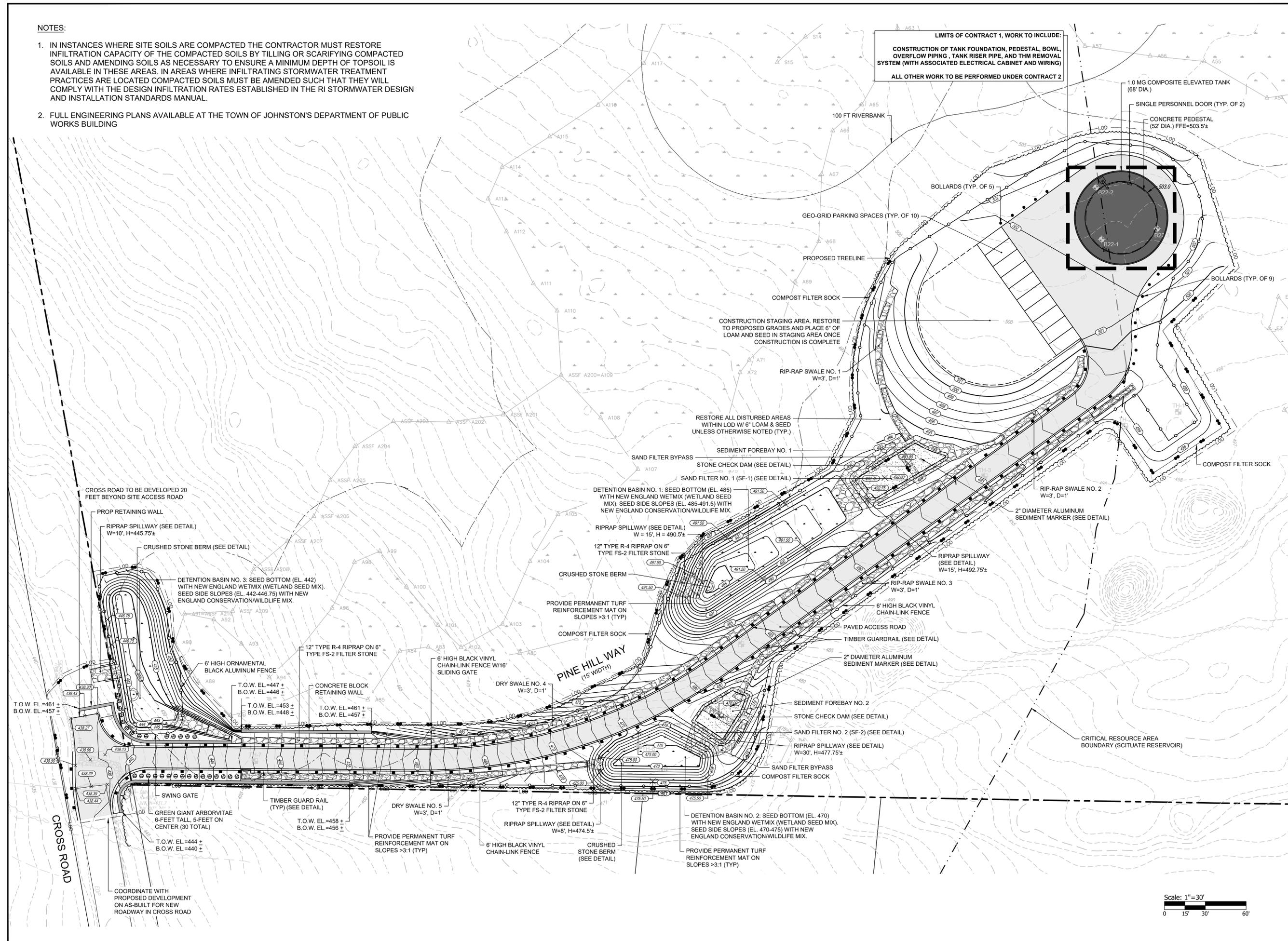
Western Johnston High Service Expansion - Contract 2

Bid Item	Description	Quantity	Unit Bid Price	Unit	Total Cost	Total Price in Words
FIGURES. IN CASE OF DISCREPANCY, THE AMOUNT SHOWN IN WORDS WILL GOVERN.						
1.	Site Mobilization and Demobilization (up to 5% of construction cost)	1	\$	LS	\$	
2.	Payment and Performance Bond (up to 1.5% of construction cost)	1	\$	LS	\$	
3.	Clearing and Grubbing	1	\$	LS	\$	
4.	Erosion and Sedimentation Controls	2,500	\$	LF	\$	
5.	Test Pits	4	\$	EA	\$	
6.	Furnish and Install 12-inch PVC Water Main and DI Fittings	1,100	\$	LF	\$	
6(a).	Bid Alt. #1 - Furnish and Install 12-inch DI Water Main and DI Fittings	1,100	\$	LF	\$	
7.	Furnish and Install 12-inch Gate Valve and Box	9	\$	EA	\$	
8.	Furnish and Install Hydrant Assembly	3	\$	EA	\$	
9.	Furnish and Install Interior Pipe, Electrically Actuated Butterfly Valves, Altitude Valve , and Appurtenances	1	\$	LS	\$	
10.	Exterior Electrical Installation	1	\$	LS	\$	
11.	Interior Electrical Installation	1	\$	LS	\$	
12.	Emergency Generator Installation and ATS Electrical Work	1	\$	LS	\$	
13.	Interior Pedestal Build-out - Utility Room	1	\$	LS	\$	
14.	Interior Pedestal Build-out - Confrence Room & Bathroom	1	\$	LS	\$	
15.	Rock Removal	500	\$	CY	\$	
16.	Unsuitable Material and Replacement w/ Processed Gravel	500	\$	TON	\$	
17.	Site Work	1	\$	LS	\$	
18.	Detention Basins	3	\$	EA	\$	
19.	Furnish and Install Tank SCADA System Allowance	1	\$ 100,000.00	ALLOW	\$ 100,000.00	One Hundred Thousand Dollars and Zero Cents
20.	Electrical Telecommunications Utility Allowance	1	\$ 125,000.00	ALLOW	\$ 125,000.00	One Hundred Twenty-Five Thousand Dollars and Zero Cents
21.	Security Allowance	1	\$ 100,000.00	ALLOW	\$ 100,000.00	One Hundred Thousand Dollars and Zero Cents
22.	Site Landscaping Allowance	1	\$ 100,000.00	ALLOW	\$ 100,000.00	One Hundred Thousand Dollars and Zero Cents
23.	Tank Exterior Architectual Allowance	1	\$ 200,000.00	ALLOW	\$ 200,000.00	Two Hundred Thousand Dollars and Zero Cents
24.	Tank Interior Architectual Allowance	1	\$ 50,000.00	ALLOW	\$ 50,000.00	Fifty Thousand Dollars and Zero Cents
25.	Decommissioning of Existing Tank Allowance	1	\$ 100,000.00	ALLOW	\$ 100,000.00	One Hundred Thousand Dollars and Zero Cents
26.	Unknown Conditions Allowance	1	\$ 400,000.00	ALLOW	\$ 400,000.00	Four Hundred Thousand Dollars and Zero Cents
<b>TOTAL</b>					<b>\$</b>	

**NOTES:**

1. IN INSTANCES WHERE SITE SOILS ARE COMPACTED THE CONTRACTOR MUST RESTORE INFILTRATION CAPACITY OF THE COMPACTED SOILS BY TILLING OR SCARIFYING COMPACTED SOILS AND AMENDING SOILS AS NECESSARY TO ENSURE A MINIMUM DEPTH OF TOPSOIL IS AVAILABLE IN THESE AREAS. IN AREAS WHERE INFILTRATING STORMWATER TREATMENT PRACTICES ARE LOCATED COMPACTED SOILS MUST BE AMENDED SUCH THAT THEY WILL COMPLY WITH THE DESIGN INFILTRATION RATES ESTABLISHED IN THE RI STORMWATER DESIGN AND INSTALLATION STANDARDS MANUAL.
2. FULL ENGINEERING PLANS AVAILABLE AT THE TOWN OF JOHNSTON'S DEPARTMENT OF PUBLIC WORKS BUILDING

**LIMITS OF CONTRACT 1, WORK TO INCLUDE:**  
 CONSTRUCTION OF TANK FOUNDATION, PEDESTAL, BOWL, OVERFLOW PIPING, TANK RISER PIPE, AND THM REMOVAL SYSTEM (WITH ASSOCIATED ELECTRICAL CABINET AND WIRING)  
**ALL OTHER WORK TO BE PERFORMED UNDER CONTRACT 2**



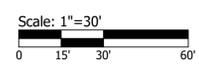
**WESTERN JOHNSTON HIGH SERVICE EXPANSION  
 CONTRACT 2**  
 Johnston, Rhode Island

**REVISIONS:**

NO.	DATE	DESCRIPTION

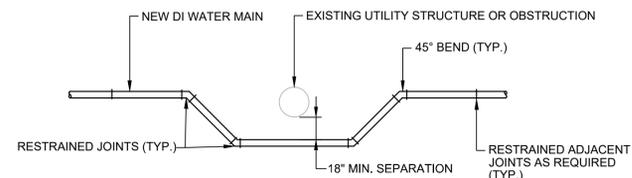
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 CHECKED BY: SPD  
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 APPROVED BY: SPD  
 DRAWING TITLE:

SITE PLAN  
 DRAWING NO.: C4.0  
 SHEET NO. 6 OF 45

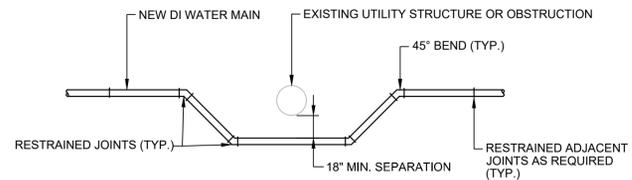








HORIZONTAL OFFSET PLAN VIEW

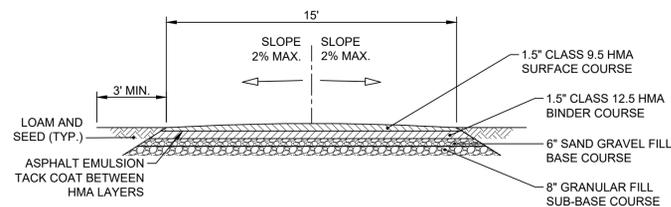


VERTICAL OFFSET PROFILE VIEW

NOTES:

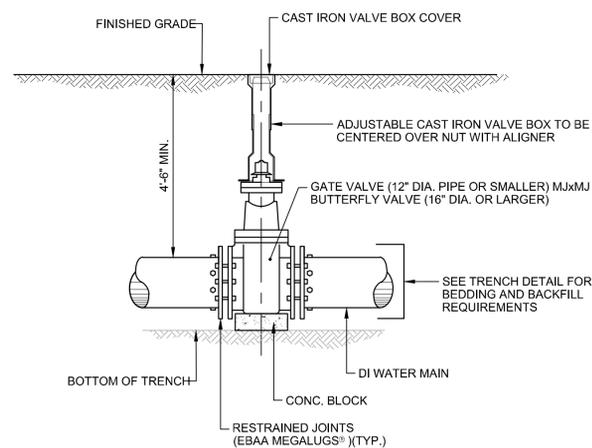
- ALL JOINTS WITHIN OFFSET SHALL BE RESTRAINED MECHANICAL JOINT.
- OFFSET CAN BE ABOVE OR BELOW CONFLICT UTILITY OR ON EITHER SIDE OF HORIZONTAL OBSTRUCTION.

UTILITY OFFSET  
NOT TO SCALE

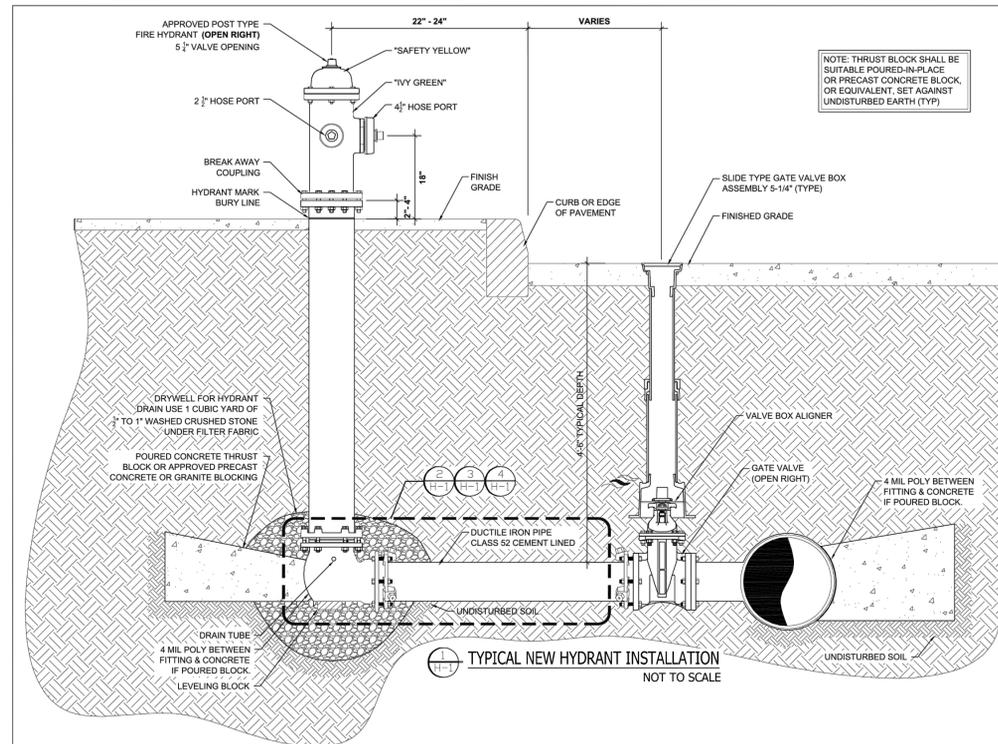


- NOTES:
- ACCESS ROAD TO SLOPE AS SHOWN IN DETAIL, UNLESS OTHERWISE NOTED ON SITE PLAN.
  - SEE APPENDIX D - SUBSURFACE INVESTIGATION, FOR REFERENCE

ACCESS ROAD DETAIL  
NOT TO SCALE

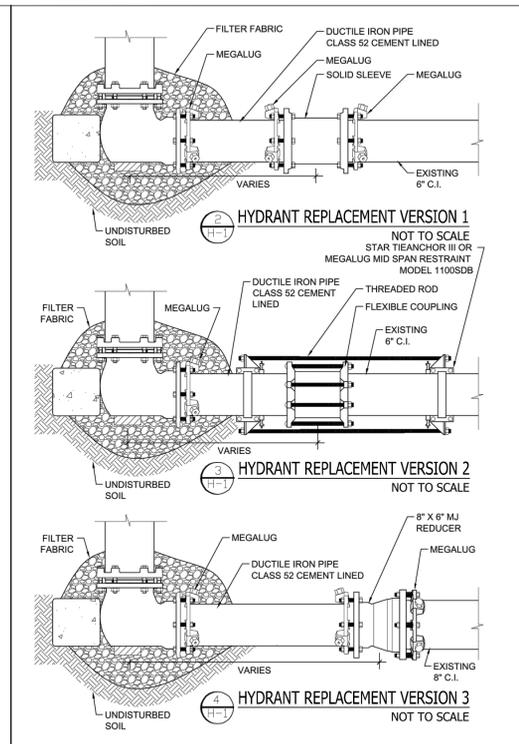


VALVE BOX DETAIL  
NOT TO SCALE

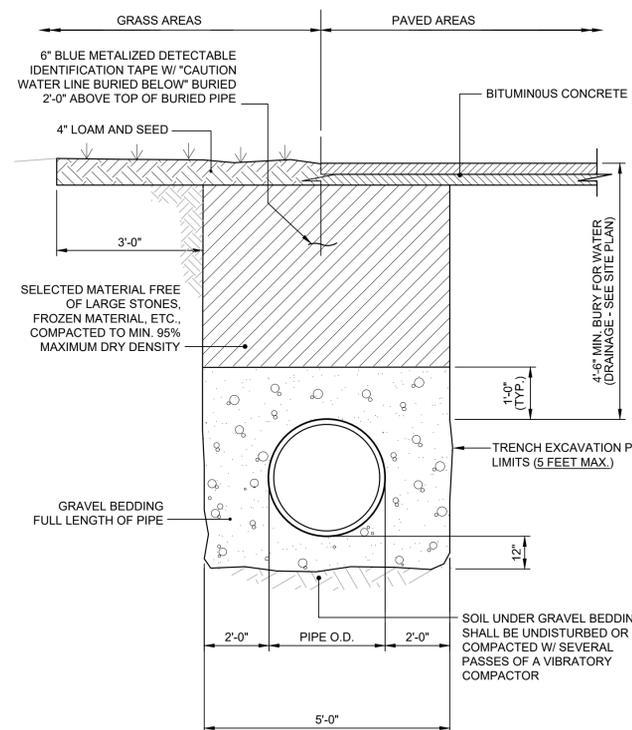


TYPICAL NEW HYDRANT INSTALLATION  
NOT TO SCALE

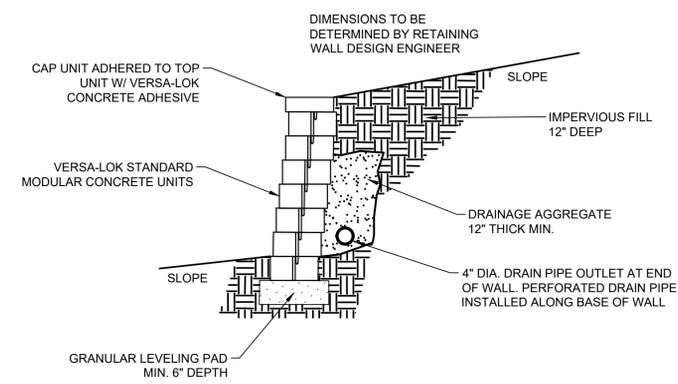
GENERAL NOTES	GENERAL NOTES
<ol style="list-style-type: none"> <li>OTHER UTILITIES ARE NOT SHOWN. CONTRACTOR SHALL NOTIFY 'DIG-SAFE' &amp; PWSB PRIOR TO COMMENCING WORK.</li> <li>NEW WATER PIPE SHALL BE TESTED AND CHLORINATED IN ACCORDANCE WITH PROVIDENCE WATER STANDARDS AND AS DIRECTED BY PROVIDENCE WATER.</li> <li>NEW WATER PIPE SHALL BE CEMENT-LINED DUCTILE IRON PIPE, CLASS 52, CONFORMING TO THE LATEST AWWA STANDARDS.</li> <li>PIPE FITTINGS SHALL BE CEMENT-LINED DUCTILE IRON, CLASS 50, WITH MECHANICAL JOINT ENDS.</li> <li>UNLESS OTHERWISE NOTED, EARTH COVER OVER PIPE SHALL NOT BE LESS THAN 4'-0".</li> <li>GATE VALVES SHALL BE RESILIENT SEAT TYPE WITH MECHANICAL JOINT ENDS AND SHALL OPEN 'RIGHT' (CLOCKWISE).</li> <li>METALIZED, DETECTABLE, IDENTIFICATION TAPE SHALL BE 2-INCHES WIDE, BLUE IN COLOR, AND IMPRINTED WITH THE WORDS 'CAUTION - WATER LINE BURIED BELOW', AND SHALL BE INSTALLED OVER ALL MAINS AND HYDRANT RUN-OUTS AT A DEPTH OF 12-INCHES BELOW FINISHED GRADE.</li> <li>UNLESS OTHERWISE NOTED, BREAKAWAY TYPE HYDRANTS SHALL BE INSTALLED WITH OPERATING NUT POSITIONED 22-28 INCHES BEHIND FACE OF CURB OR EDGE OF PAVEMENT. THE BREAKAWAY FLANGE SHALL BE SET 2-INCHES TO 4-INCHES ABOVE FINISHED GRADE. HYDRANTS SHALL OPEN 'RIGHT' (CLOCKWISE).</li> <li>PROPERLY SIZED CONCRETE THRUST BLOCKS SHALL BE INSTALLED AT CHANGES OF PIPE DIRECTION (TEES, BENDS, ETC.) AND/OR DEAD ENDS IN ACCORDANCE WITH PROVIDENCE WATER STANDARDS. FURTHERMORE, MECHANICAL JOINT THRUST RESTRAINTS SHALL BE PLACED ON EACH SIDE OF FITTINGS AND AT PIPE JOINTS TO SUFFICIENTLY RESTRAIN AN ADEQUATE LENGTH OF PIPE AWAY FROM FITTINGS AT 1-1/2 TIMES THE STATIC PRESSURE, OR NOT LESS THAN 150 PSI.</li> </ol>	<p><b>APPROVED HYDRANTS</b></p> <ul style="list-style-type: none"> <li>KENNEDY GUARDIAN HYDRANT - K81D</li> <li>MULLER SUPER CENTURION - A423</li> </ul> <p>HYDRANTS MUST BE 'HYDRA-SHIELD CUSTODIAN' READY.</p> <p>HYDRANT EXTENSION KITS AND TRAFFIC REPAIR KITS MUST BE AVAILABLE FROM THE MANUFACTURER BY THE ORIGINAL HYDRANT MANUFACTURER &amp; CONSIDERED 'ORIGINAL EQUIPMENT'. SUBSTITUTES ARE NOT ALLOWED.</p> <p>TYPICAL LOW SERVICE HYDRANT WOULD HAVE A DEPTH OF 5 FEET</p> <p>TYPICAL HIGH SERVICE HYDRANT WOULD HAVE A DEPTH OF 5 FEET 6 INCHES</p> <p>NOTE: FOR REPLACEMENT OF EXISTING HYDRANTS THE DEPTH SHOULD BE DETERMINED PRIOR TO INSTALLATION TO ASSURE THAT NEW HYDRANT IS OF PROPER DEPTH</p> <p>FOR NEW HYDRANTS WITH A LATERAL LONGER THAN 10 FT., THE HYDRANT ASSEMBLY SHALL INCLUDE 8" DIA PIPE LATERAL, AN 8" GATE VALVE, AND AN 8" X 6" REDUCER.</p>



Providence Water		TYPICAL DETAILS	
PWSB NEW HYDRANT INSTALLATION & REPLACEMENTS		H-1 SHEET NUMBER 1 of 1	
DRAWN BY	CHECKED BY		
SCALE	DATE		
DIRECTOR OF ENGINEERING			



WATER/DRAIN TRENCH DETAIL  
NOT TO SCALE



NOTES:

- RETAINING WALL DETAIL IS FOR REFERENCE PURPOSES ONLY. CONTRACTOR SHALL PROVIDE SHOP DRAWINGS DESIGNED AND STAMPED BY A RHODE ISLAND REGISTERED STRUCTURAL ENGINEER FOR REVIEW PRIOR TO CONSTRUCTION.
- SHOP DRAWINGS SHALL INCLUDE ALL DETAILS AND INFORMATION NECESSARY FOR CONSTRUCTION.
- THE CONTRACTOR SHALL PROVIDE THE RETAINING WALL DESIGN ENGINEER WITH ALL APPURTENANT INFORMATION FOR THEIR DESIGN AND CALCULATION.

TYPICAL SECTION - UNREINFORCED RETAINING WALL  
NOT TO SCALE



WESTERN JOHNSTON HIGH SERVICE EXPANSION  
CONTRACT 2

Johnston, Rhode Island

REVISIONS:

NO.	DATE	DESCRIPTION

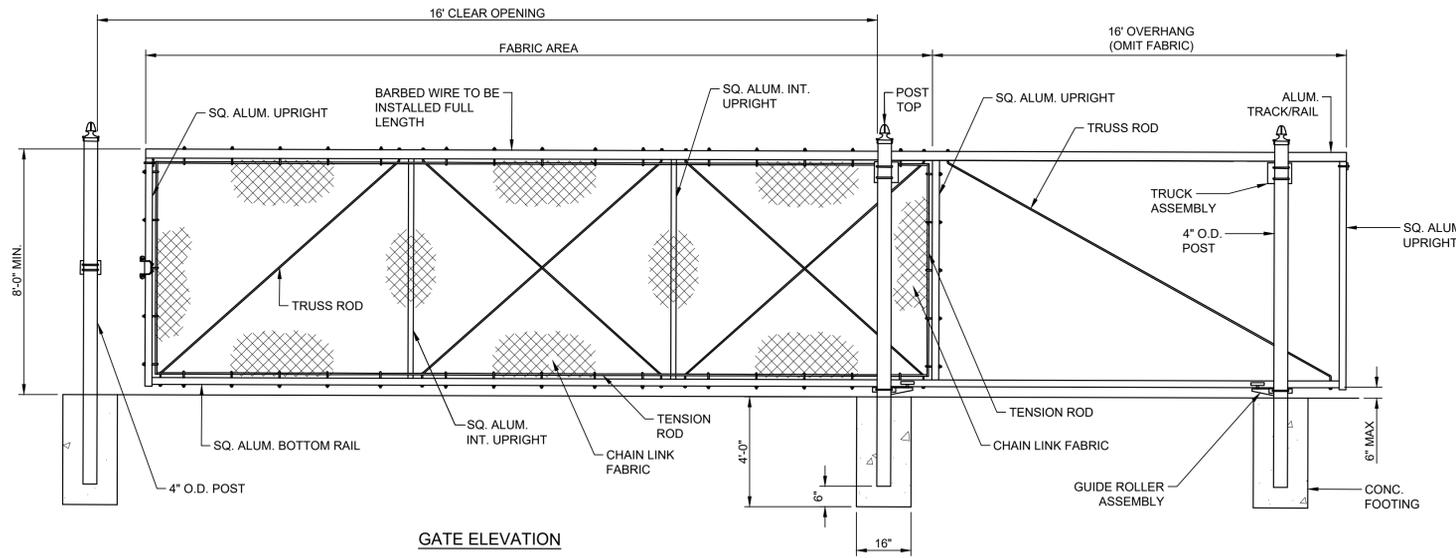
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DATE:	MARCH 2023
SCALE:	AS NOTED
DESIGNED BY:	MGM
CHECKED BY:	SPD
DRAWN BY:	MGM
APPROVED BY:	SPD
DRAWING TITLE:	

REVISIONS:

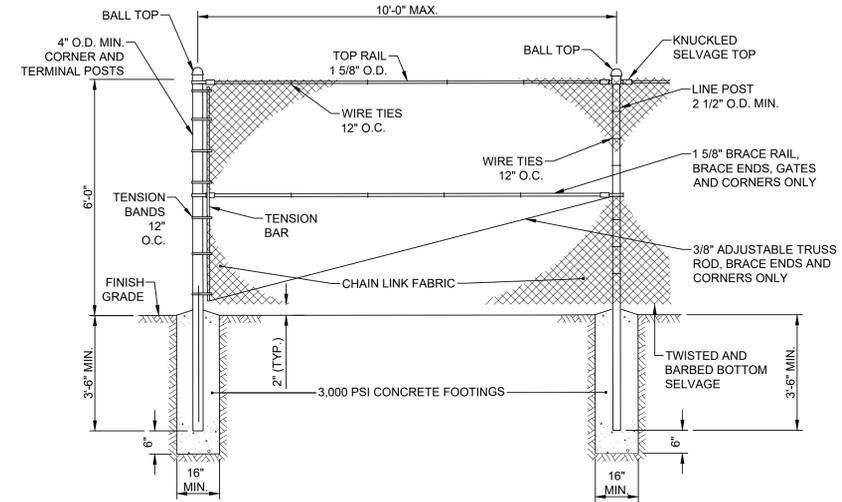
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DATE: MARCH 2023  
SCALE: AS NOTED  
DESIGNED BY: MGM  
CHECKED BY: SPD  
DRAWN BY: MGM  
APPROVED BY: SPD  
DRAWING TITLE:

DETAILS 5

DRAWING NO.:  
**C7.5**  
SHEET NO. 13 OF 45

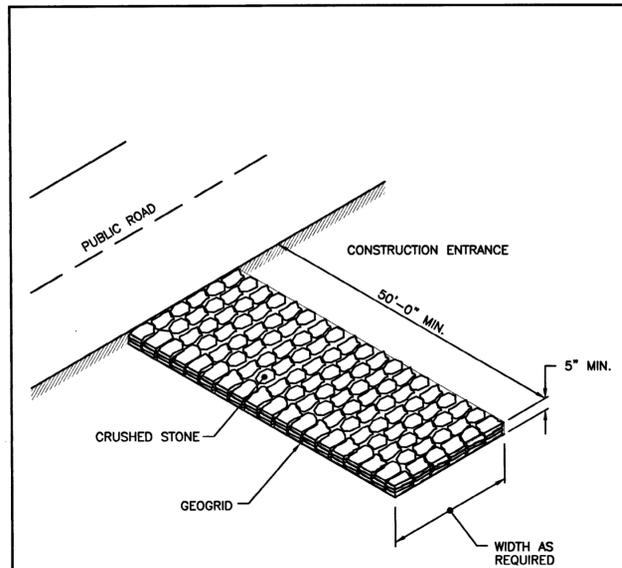


TYPICAL SINGLE CANTILEVERED SLIDING GATE  
NOT TO SCALE



NOTES:  
1. PROVIDE CHAIN LINK FENCE WITH FINISH AS INDICATED ON THE PLANS.  
(BV)= PROVIDE BLACK VINYL COATED FABRIC, POLES, HANDRAILS, ETC.  
(GALV)= PROVIDE GALVANIZED FABRIC, POLES, HANDRAILS, ETC.  
2. FENCE SHALL BE DESIGNED BY FENCE MANUFACTURER TO WITHSTAND LOCAL WIND LOADS AND OTHER ENVIRONMENTAL FACTORS. PROVIDE DESIGN FOR REVIEW BY ENGINEER.

CHAINLINK FENCE DETAIL  
NOT TO SCALE



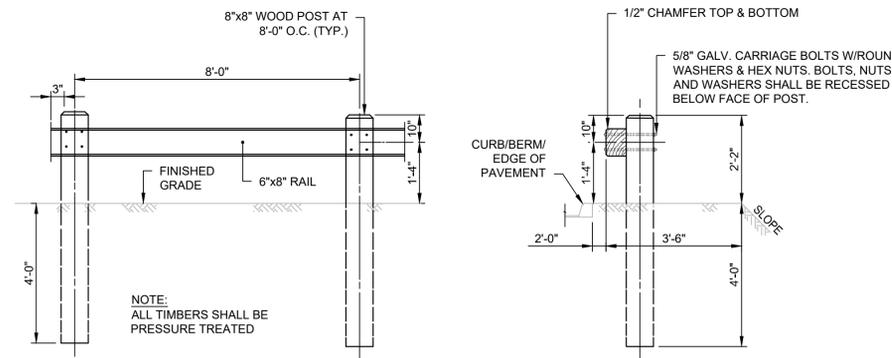
NOTE:  
SHALL BE IN ACCORDANCE WITH SECTION 211 OF THE R.I. STANDARD SPECIFICATIONS.

RHODE ISLAND DEPARTMENT OF TRANSPORTATION

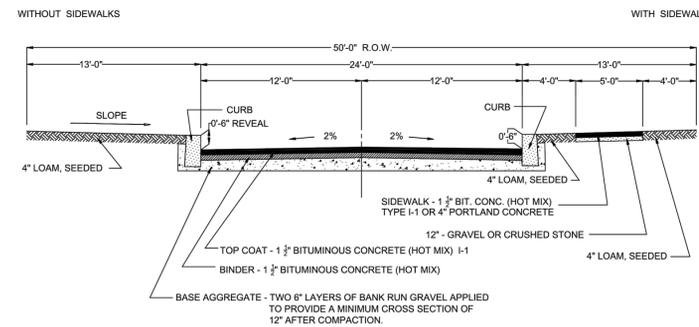
REVISIONS		
NO.	BY	DATE

CONSTRUCTION ACCESS

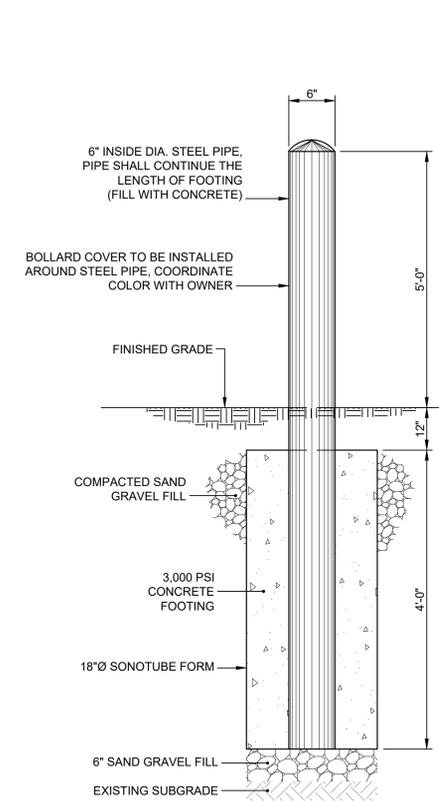
*James D. Capaldi* CHIEF ENGINEER TRANSPORTATION  
*Edward P. ...* CHIEF DESIGN ENGINEER TRANSPORTATION  
JUNE 15, 1998  
ISSUE DATE



TIMBER GUARDRAIL  
NOT TO SCALE



TOWN OF JOHNSTON - TYPICAL STREET CROSS DETAIL  
NOT TO SCALE



BOLLARD DETAIL  
NOT TO SCALE

## BID BOND

Any singular reference to Bidder, Surety, Owner, or other party shall be considered plural where applicable.

---

BIDDER (*Name and Address*):

SURETY (*Name, and Address of Principal Place of Business*):

OWNER (*Name and Address*):

BID

Bid Due Date:

Description (*Project Name— Include Location*):

BOND

Bond Number:

Date:

Penal sum

\$

(Words)

(Figures)

Surety and Bidder, intending to be legally bound hereby, subject to the terms set forth below, do each cause this Bid Bond to be duly executed by an authorized officer, agent, or representative.

**BIDDER**

**SURETY**

(Seal)

(Seal)

\_\_\_\_\_  
Bidder's Name and Corporate Seal

\_\_\_\_\_  
Surety's Name and Corporate Seal

By:

\_\_\_\_\_  
Signature

By:

\_\_\_\_\_  
Signature (Attach Power of Attorney)

\_\_\_\_\_  
Print Name

\_\_\_\_\_  
Print Name

\_\_\_\_\_  
Title

\_\_\_\_\_  
Title

Attest:

\_\_\_\_\_  
Signature

Attest:

\_\_\_\_\_  
Signature

\_\_\_\_\_  
Title

\_\_\_\_\_  
Title

*Note: Addresses are to be used for giving any required notice.*

*Provide execution by any additional parties, such as joint venturers, if necessary.*

1. Bidder and Surety, jointly and severally, bind themselves, their heirs, executors, administrators, successors, and assigns to pay to Owner upon default of Bidder any difference between the total amount of Bidder's Bid and the total amount of the Bid of the next lowest, responsible Bidder that submitted a responsive Bid as determined by Owner for the work required by the Contract Documents, provided that:
  - 1.1 If there is no such next Bidder, and Owner does not abandon the Project, then Bidder and Surety shall pay to Owner the penal sum set forth on the face of this Bond, and
  - 1.2 In no event shall Bidder's and Surety's obligation hereunder exceed the penal sum set forth on the face of this Bond.
  - 1.3 Recovery under the terms of this Bond shall be Owner's sole and exclusive remedy upon default of Bidder.
2. Default of Bidder shall occur upon the failure of Bidder to deliver within the time required by the Bidding Documents (or any extension thereof agreed to in writing by Owner) the executed Agreement required by the Bidding Documents and any performance and payment bonds required by the Bidding Documents.
3. This obligation shall be null and void if:
  - 3.1 Owner accepts Bidder's Bid and Bidder delivers within the time required by the Bidding Documents (or any extension thereof agreed to in writing by Owner) the executed Agreement required by the Bidding Documents and any performance and payment bonds required by the Bidding Documents, or
  - 3.2 All Bids are rejected by Owner, or
  - 3.3 Owner fails to issue a Notice of Award to Bidder within the time specified in the Bidding Documents (or any extension thereof agreed to in writing by Bidder and, if applicable, consented to by Surety when required by Paragraph 5 hereof).
4. Payment under this Bond will be due and payable upon default of Bidder and within 30 calendar days after receipt by Bidder and Surety of written notice of default from Owner, which notice will be given with reasonable promptness, identifying this Bond and the Project and including a statement of the amount due.
5. Surety waives notice of any and all defenses based on or arising out of any time extension to issue Notice of Award agreed to in writing by Owner and Bidder, provided that the total time for issuing Notice of Award including extensions shall not in the aggregate exceed 120 days from Bid due date without Surety's written consent.
6. No suit or action shall be commenced under this Bond prior to 30 calendar days after the notice of default required in Paragraph 4 above is received by Bidder and Surety and in no case later than one year after the Bid due date.
7. Any suit or action under this Bond shall be commenced only in a court of competent jurisdiction located in the state in which the Project is located.
8. Notices required hereunder shall be in writing and sent to Bidder and Surety at their respective addresses shown on the face of this Bond. Such notices may be sent by personal delivery, commercial courier, or by United States Registered or Certified Mail, return receipt requested, postage pre-paid, and shall be deemed to be effective upon receipt by the party concerned.
9. Surety shall cause to be attached to this Bond a current and effective Power of Attorney evidencing the authority of the officer, agent, or representative who executed this Bond on behalf of Surety to execute, seal, and deliver such Bond and bind the Surety thereby.
10. This Bond is intended to conform to all applicable statutory requirements. Any applicable requirement of any applicable statute that has been omitted from this Bond shall be deemed to be included herein as if set forth at length. If any provision of this Bond conflicts with any applicable statute, then the provision of said statute shall govern and the remainder of this Bond that is not in conflict therewith shall continue in full force and effect.
11. The term "Bid" as used herein includes a Bid, offer, or proposal as applicable.

Providence Water Supply Board – Western Johnston High Service Expansion – Contract 1 & 2

Non-Mandatory Pre-Bid Meeting Sign-In Sheet

April 18, 2023 – 10:00 AM

NAME	COMPANY	EMAIL
STAN CARTER	R Zoppo CORP	SCARTER@Zoppo.com
Annal Weller	Statewide Aquastore	AWHEELER@BESTTANK.COM
Peter DiLorenz	Providence Water	Pdilorenz@provwater.com
PERS LESAGE	PW	Plesage@provwater.com
Victor Cabrera	PW	victorc@provwater.com
Leo Fontaine	PW	leo.f@provwater.com
Christin Lopez	PW	Christin1@provwater.com
Shere Discoli	Pare	sdiscoli@parecorp.com
Anthony Vincenzo	R P Iannucillo	avincenzo@riannucillo.com
Jack M. Brown	EAST COAST CONSL.	JBROWN@EASTCOASTCONSTRUCTION.COM
David Lunetta	Manufact Bros.	PCALCABN1@Manufact.com

