



TOWN OF JOHNSTON
REQUEST FOR PROPOSALS
Johnston War Memorial Park
Recreational Splash Pad Project – Utility Construction Work

RFP Number 2024-005

Issuing Department Buildings & Grounds
Department

Mandatory Pre-Bid Conference Thursday, January 18th 2024
Location 1583 Hartford Avenue, Johnston
Time 10:00am

Bid Due Date & Opening Thursday, February 1st 2024
Time 10:00am



PURCHASING DEPARTMENT
TOWN OF JOHNSTON, RHODE ISLAND

Request for Proposals Contents:

Submission Of Bids Instructions.....	3
Documents Required For Submission With Sealed Bid.....	3
Documents Required If Selected As Winning Bidder	4
Notices To Proposers.....	4
Inquiries	7
Bid Form	8
Scope Of Work	9



PURCHASING DEPARTMENT
TOWN OF JOHNSTON, RHODE ISLAND

The Town of Johnston is seeking proposals for Utility Construction Work on the Johnston War Memorial Park Recreational Splash Pad Project.

SUBMISSION OF BIDS INSTRUCTIONS

Sealed bids will be accepted at the Office of the Town Clerk at Johnston Town Hall. Proposals may be submitted up to 10:00 AM Thursday, February 1st 2024. All proposals will then be publicly opened and read aloud in the Conference Room located at Town Hall.

A Mandatory Pre-Bid Conference will be held at 10:00 AM on Thursday, January 18th 2024. Located at the Johnston War Memorial Park, 1583 Hartford Avenue, Johnston, RI 02919. Bidders must attend and sign in at the pre-bid conference; any bid submitted without attending the mandatory pre-bid conference will be rejected.

A sealed package must be submitted containing one (1) original bid, labeled original and one (1) unbound copy.

The bids must be marked with the name and address of the bidder, and the date and time of bid opening. Bids must be received prior to the due date and time. Bids received after that time shall be returned unopened. Packages submitted must be sealed and clearly marked: "JWMP – Utility Construction Work" Any communications that are not competitive sealed proposals should have "NOT A BID" written on the envelope or wrapper.

Envelopes containing bids must be sealed and addressed to:

Town Clerk's Office
Johnston Town Hall
1385 Hartford Avenue
Johnston, RI 02919

The Town is not responsible for accepting any submissions delivered to other town buildings. Bids received prior to the time of opening will be securely kept, unopened until the opening time. No responsibility will attach to an officer or person for the premature opening of a bid not properly addressed and identified.

Documents Required for Submission with Sealed Bid

1. A sealed package must be submitted containing one (1) original bid, labeled original and one (1) unbound copy.
2. Bid Bond or Certified Bank Check: Must be for 10% of the price of the Bid.
3. Bid Form: found on page 8 of this RFP. Must be signed by a responsible member of the firm with their signature and official title.



PURCHASING DEPARTMENT
TOWN OF JOHNSTON, RHODE ISLAND

Documents Required if Selected as Winning Bidder

1. Performance Bond or Certified Bank Check: Must be for 100% of completed cost of project/service.
2. Insurance Binder: A certificate of insurance indicating liability and workers' compensation coverage must be provided.
3. IRS Form W-9: Should be completed and submitted if the bidder falls under IRS requirements to file this form.

NOTICES TO PROPOSERS

- I. Any bidder may withdraw the firm's bid by written request at any time prior to the advertised time for opening. Telephonic, email or facsimile transmitted bids, amendments, or withdrawals will not be accepted.
- II. Unless otherwise specified, no bid may be withdrawn after the date and time of the bid opening. Time is of the essence in this bid and failure to deliver within the time period shall be considered default.
- III. If any proprietary, trade, brand or manufacturer's name or part number is used herein in describing the required equipment, it shall be understood to indicate the minimum standard of composition and quality desired, and shall not be construed to exclude equipment that equals or exceeds the functional capability and quality of the named equipment. If bids are based on such equivalent equipment, indicate the manufacturer's name, model and number for the equipment and include any literature or other explanation of the equipment's quality or performance.
- IV. Negligence on the part of the bidder in preparing the bid confers no rights for the withdrawal of the bid after said bid has been opened.
- V. Descriptive materials such as plans, drawings, photographs, written descriptions, and particularly manufacturer's literature that will enable the Town to determine the exact quality, design and appearance of the equipment proposed, shall accompany the bid. All equipment listed, or shown, in the manufacturer's literature, drawings or photographs, and approved by the Town, shall be furnished.
- VI. All prices bid must be on the basis of F.O.B. Delivery Point, Town of Johnston. Therefore, shipping costs are to be included within the process quoted. Deliveries must consist only of new merchandise or equipment and shall be made between 7:30am and 3:00pm, or as may be arranged during emergencies.
- VII. Bids received prior to the time of opening will be securely kept, unopened. No responsibility will attach to an officer or person for the premature opening of a bid not properly addressed and identified.
- VIII. The Finance Director or his designee may waive any or all bids for cause, failure to meet specifications or any reason deemed appropriate. The Town of Johnston reserves the right to reject any or all responses or parts thereof, to waive any informality in them, or accept any bid deemed in the best interest of the Town.



PURCHASING DEPARTMENT
TOWN OF JOHNSTON, RHODE ISLAND

- IX. An award will be given in writing to the bidder whose offer provides the greatest value to the Town, from the standpoint of meeting specifications and requirements of bidding documents, suitability to purpose, quality, service, previous experience, price, ability to deliver, or for any other reason deemed by the Town to be in its own best interest. Any final analysis or weighted point score does not imply that one bidder is superior to another, but simply, in the Town's judgment the bidder selected appears to offer the best overall solution for our current and anticipated needs. Thus, the result will not be determined by price alone.

Award will be based on, but not limited necessarily to the following (where applicable):

- a) Adherence to all conditions and requirements of the bid specifications;
 - b) Total bid price; (including any discounts), unit bid price, or extended price;
 - c) General reputation and experience of bidders;
 - d) Evaluation of the bidder's ability to service the Town;
 - e) Financial responsibility of the bidder;
 - f) Prior knowledge of and experience with the bidder in terms of past performance;
 - g) Needs and requirements of the Town;
 - h) Experience with the products involved;
 - i) Bidder's ability to meet delivery and stocking requirements;
 - j) Delivery date or service date; and
 - k) Ordering method.
- X. After the bid is awarded, all documents pertaining to the successful bid will be available for public inspection in the Town purchasing office.
- XI. If all Bids exceed the available funds, the Finance Director may re-solicit new Bids or enter into competitive negotiations with two or more of the lowest bidders meeting all requirements as outlined.
- XII. A reasonable inquiry to determine the responsibility of the bidder or offer may be conducted. Failure to promptly supply information related to such an inquiry may be grounds for disqualification of a bidder. All information supplied is confidential.
- XIII. The Town may make such investigations as it deems necessary to determine the ability of the bidder to provide the materials or services, and the bidder shall furnish to the Town all such information and data for this purpose as the Town may request. The Town reserves the right to reject any bid if such bidder fails to satisfy the Town that such bidder is properly qualified to carry out the obligations of the contract and to complete the work contemplated therein.
- XIV. Bid price shall be firm; unit price shall include any and all trade discounts. Price shall be inclusive of any freight, handling, delivery surcharges or any other incidental charges. Your bid shall be exclusive of any Federal or State taxes, as the Town of Johnston is exempt from payment of such taxes. A certificate of exemption shall be forwarded to the elected vendor upon request.
- XV. Delivery shall be made to the Town of Johnston on the "ship to" address of the Purchase Order. Delivery is required within the time stated herein from the date of the issuance of the purchase order, unless otherwise noted. Delivery shall include assembly, servicing and placement of equipment in operable status unless specified otherwise. No deliveries shall become due or acceptable without a written Purchase Order issued by the Town of Johnston.



PURCHASING DEPARTMENT
TOWN OF JOHNSTON, RHODE ISLAND

- XVI. The Department Director, or his designee, shall accomplish inspection and acceptance of materials/equipment purchased for the department.
- XVII. In case of default, the Town may procure the materials from other sources and hold the bidder responsible for any excess costs occasioned thereby and may immediately cancel the Purchase Order.
- XVIII. Bidders are advised that this section of the specifications will be evaluated before the technical specifications. Bids that do not comply with our General Conditions, Bonding, Insurance, Delivery, Bidder Qualifications, Service and Warranty requirements will be immediately deemed non-responsive and shall be immediately rejected without further review of the technical specification.
- XIX. Bids not received by the Bid Submittal Deadline are late. Late Bids will be returned to Bidders unopened.
- XX. No employee, officer or agent of the Town of Johnston shall participate in the selection, the award or administration, of the contract if a conflict of interest, real or apparent, would be involved. Such a conflict would arise when one of the following has a financial or other interest in any firm proposing on or selected for the award:
- a) The employee or an officer or agent of the employee;
 - b) Any member of the employee's immediate family;
 - c) The employee's business partner; or
 - d) An organization that employs, or is about to employ, any of the above.
- XXI. This is a "prevailing wage" contract. Prevailing Wage refers to the requirements of the Rhode Island General Law 37-13 and the general prevailing rate of pay for regular, holiday and overtime wages to be paid to each craftsman, mechanic, teamster, laborer or other type of worker performing work on public works projects when state or municipal funds are used in excess of \$1,000. Contractors must refer to the applicable Davis Bacon Wage Determination rate schedule available at the Rhode Island Department of Labor and Training website to determine the prevailing wage rates for a public works construction project.



PURCHASING DEPARTMENT
TOWN OF JOHNSTON, RHODE ISLAND

INQUIRIES

Any questions concerning clarification on any portion of this RFP should be made to:

By Mail:

Tyler P. Carney
Johnston Town Hall
1385 Hartford Avenue
Johnston RI, 02919

By Email:

Tyler P. Carney
tcarney@johnston-ri.us

All bidders are responsible for ensuring that no addenda have been made to the original proposal package. All proposal packages and addenda shall be posted to the Town's website and are also available by contacting Tyler Carney, at tcarney@johnston-ri.us



PURCHASING DEPARTMENT
TOWN OF JOHNSTON, RHODE ISLAND

BID FORM

Name of Bidder (Firm or Individual): _____

Contact Name: _____

Contact Phone Number: _____

Contact Email: _____

Business Address: _____

Total Bid Amount: _____

Signature of Representative

Title of Representative

Date



PURCHASING DEPARTMENT
TOWN OF JOHNSTON, RHODE ISLAND

SCOPE OF WORK

Invitation to bid Domestic Water, Sewer, and Electrical Utility Construction for a Recreational Splash Pad at Johnston War Memorial Park (JWMP)

Deliverables and Scope of Work:

1. Obtain any and all necessary building permit(s) from the Town of Johnston (fees are waived for this project).
2. Provide any and all pertinent drawings, plans, and/or product submittals related to the project to the Buildings & Grounds Department as well as the Town Building Official/Department of Planning and Public Services (DPPS).
3. Provide and set up safety measures as required by OSHA.
4. Provide and set up all necessary temporary fencing, cones, caution tape, and roadway plates to safely secure the project area and any open holes that may be present during project work, as well as after hours, for the overall safety of those present and JWMP.
5. Provide any and all necessary labor, materials, and equipment to complete the utility construction requirements for a domestic water line, sanitary sewer line, and electrical supply, as shown and described in the [**JWMP.SplashPad.PermitSet.1982-008.11152023 \(11 Pages\)**](#), [**Plumbing.Electrical.Layout.SplashPad, JWMP.Survey.07212023, and JWMP.SplashPad.ConcreteSlabDesign**](#) plans (see attached).
6. Per the contracted Splash Pad Installer, M.E. O'Brien & Sons, Inc., the "stubs" installed for the utilities are to be located within 20 feet of the designated Splash Pad area. Final connection of the utility stubs will be required after M.E. O'Brien & Sons has installed the Splash Pad and its related components.
7. Any electrical cabinet or meter work requirements are to be provided for under the electrical utility component of this RFP/Bid. Please note that power is currently available in the area of the proposed Splash Pad in the form of a small exterior service panel with a meter. This, and all current infrastructure present at Johnston War Memorial Park (JWMP), can be looked at during the Mandatory Pre-Bid Conference related to this RFP.
8. Perform all work according to State of Rhode Island Building Code and all relevant codes.
9. Proper state licenses/certifications are required for all trades and related work.
10. All labor is prevailing wage as per State, Federal, and Davis Bacon Act Guidelines, thus requiring Certified Payroll submissions to the Town.



PURCHASING DEPARTMENT
TOWN OF JOHNSTON, RHODE ISLAND

11. Utility installation is to be fully functional, with an on-site review for staff members in order to have system familiarity.
12. All bidded work is to be completed expeditiously so that the Splash Pad can be installed in the Spring and the recreational facility can be open to the community on 6/8/2024.
13. One-year full warranty of parts and labor at no charge, including technical support as needed.
14. Furnish and honor all manufacturers' warranties for the terms and periods listed.
15. Leave premises clean and orderly.



PURCHASING DEPARTMENT
TOWN OF JOHNSTON, RHODE ISLAND

Attached Documents

- I. JWMP Splash Pad Concrete Slab Design (5 Pages)
- II. JWMP Splash Pad Permit Set (11 Pages)
- III. JWMP Survey (2 Pages)
- IV. Plumbing Electrical Layout Splash Pad (2 Pages)

PROJECT CERTIFICATION

PROPERTY OWNER OF RECORD	Town of Johnston	PERMIT NO.				
PROJECT TITLE	Splash Pad	DATE:	9/23			
ADDRESS	1583 Hartford Avenue	PLAT				
TOWN	Johnston	LOT				
NAME OF BUILDING	N/A	RI. ZIP CODE	02919			
SCOPE OF PROJECT	Construction of reinforced concrete slab on grade with embedded piping for a public aquatic facility					
SCOPE OF CERTIFICATION	ENTIRE PROJECT	<input type="checkbox"/>	ARCHITECTURAL	<input type="checkbox"/>	STRUCTURAL	<input checked="" type="checkbox"/>
	FIRE PROTECTION	<input type="checkbox"/>	MECHANICAL	<input type="checkbox"/>	ELECTRICAL	<input type="checkbox"/>
	CIVIL / SITE	<input type="checkbox"/>	OTHER (Specify)	<input checked="" type="checkbox"/>	Slab on Grade	<input type="checkbox"/>

In accordance with Rhode Island General Law 23-27.3 Section 128.0 of the Rhode Island Building Code, I, Eric J. Wishart, RI Registration No 6193, being a registered professional ~~Architect~~ Engineer hereby certify that: I have prepared or directly supervised the preparation of drawings, computation, and specifications concerning the above described project and that to the best of my knowledge such drawings, computation, and specifications meet all applicable provisions of the Rhode Island State Building Codes, all acceptable engineering practices and laws for the proposed project.

I further certify that I shall perform the necessary professional services and be present on the construction site on a regular and periodic basis to determine that the work is proceeding in accordance with the documents approved for the building permit and shall be responsible for the following as specified in section 128.2.2

§ 23-27.3-128.2.2 Responsibilities. – A professional engineer or registered architect on behalf of the owner shall be responsible for the following:

- (1) Review of the shop drawings, samples, and other submittals of the contractor as required by the construction contract documents submitted for permit and approval for conformance to the design concept.
- (2) All change orders to the contract documents shall be submitted to the building official after approval by the professional engineer or registered architect.
- (3) Review and approval of the testing procedures listed in § 23-27.3-128.4 and Part IX chapter 43. The engineer or architect shall notify the owner, building official, and contractor of the results of all tests and the required corrective measures which need to be taken.
- (4) Ensure special engineering or architectural inspection of critical construction components requiring controlled materials, or construction specified in the accepted engineering practice standards as listed in Appendix A. **(Comment see Ch 35 SBC-I)** be present on the construction site on a regular and periodic basis to determine that, generally, the work is proceeding in accordance with the documents approved for the permit.

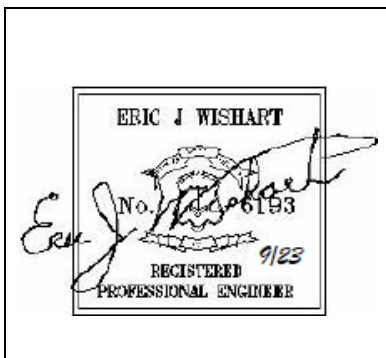
Pursuant to Section 128.2.3, I shall submit

Weekly ☐
At Completion ☒

Bi-weekly ☐

Monthly ☐

A progress report together with pertinent comments to the state building official. Upon completion of the work I shall submit a final project report as to the satisfactory completion and readiness of the project for occupancy.



Firm Name: Civil CADD Services Inc
Address: 150 Higginson Avenue
Lincoln, RI 02865
Phone: 401-419-9791

Eric J. Wishart

Signature of ~~Architect~~ / Engineer

Owners Statement:

I hereby acknowledge the above and agree to notify the Building Official of any changes to this agreement

Signature of Owner

Johnston Memorial Park – Splash Pad
Narrative

General

All new design and construction to be executed under this permit will be compliant with the Rhode Island State Building Code, RISBC-1

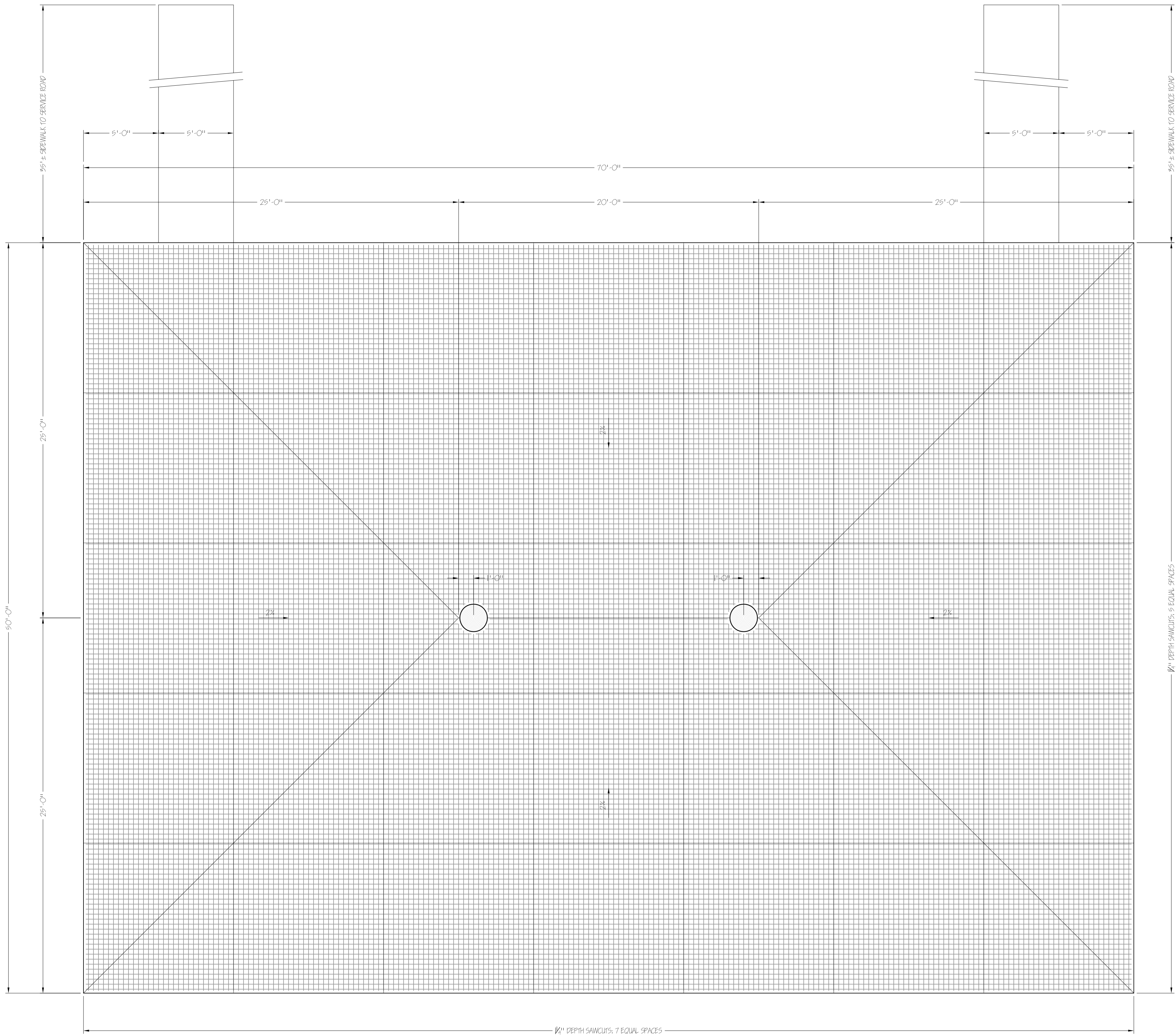
The work is to construct a reinforced concrete slab with embedded piping, as described in the accompanying plans and General Contractor's contract.

STATEMENT OF SPECIAL INSPECTIONS

1705.1 General.

Where special inspection or testing is required by Section 1704, 1707 or 1708, the registered design professional in responsible charge shall prepare a statement of special inspections in accordance with Section 1705 for submittal by the permit applicant (see Section 1704.1.1).

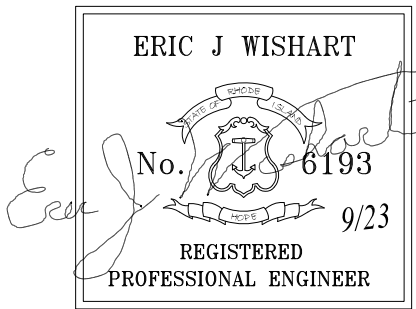
Special inspection is waived for the construction of the slab on grade. No special wind or seismic loading provisions are applicable.



PLAN

GENERAL NOTES

1. MATERIALS:
CONCRETE
P c 3,000psi
max. agg. size 3/4"
max. w/ c 0.40
Slump Range: 4" ±1"
REINFORCEMENT
ASTM A185 WELDED WIRE FABRIC FY 65,000psi
FULL SPLICE OCCURS WITH OVERLAP OF AT LEAST 2 WIRES.
2. DO NOT ADD ADDITIONAL WATER TO CONCRETE ON-SITE. IF ADDITIONAL WORKABILITY IS DESIRED, PLAN THE MIX DESIGN TO USE A SUPERPLASTICIZER.
3. WORK THIS DRAWING WITH PLUMBING PLAN. PLUMBING IS EMBEDDED IN THE SLAB.
4. SPRAY DEVICE BASES ARE EMBEDDED IN THE SLAB - NO EXTERNAL ANCHORAGES ARE REQUIRED.
5. PROVIDE BROOM FINISH OF TOP SLAB SURFACE WITHIN:
4 HOURS OF SET IN COLD WEATHER
1 HOUR OF SET IN HOT WEATHER.
6. PROVIDE SAWCUT JOINTS USING AN EARLY-ENTRY SAW IMMEDIATELY AFTER FINISHING.
7. MOIST CURE SLAB SURFACE IN ACCORDANCE WITH STANDARD ACI PRACTICES. CURING COMPOUND RECOMMENDED.
8. OPTIONALLY FILL SAWCUTS WITH SKAFLEX OR SIMILAR PRODUCT TO REDUCE RISK OF EDGE SPALLS.
9. OPERATION AND MAINTENANCE PLAN BY OTHERS.
10. SUBGRADE PREPARATION TO MEET 95 % MAX. DENSITY REQUIREMENTS.
11. SLAB NOT DESIGNED FOR VEHICULAR LOADS. FENCING AROUND PERIMETER IS RECOMMENDED.
12. PROVIDE CONCRETE MIX DESIGN FOR APPROVAL PRIOR TO PLACEMENT.



REVISIONS				
NO.	DATE	BY	DESCRIPTION	

PREPARED EXCLUSIVELY FOR

O'Brien & Sons, Inc.

SCALE ADJUSTMENT GUIDE

0" — 1"

THIS BAR IS ONE INCH ON THE ORIGINAL DRAWING.

PREPARED BY

EMAIL: civilcadd@gmail.com

Civil CADD Services Inc

150 HIGGINSON AVENUE
TEL. (401) 419-9791

LINCOLN, RI 02865
FAX (401) 723-6866

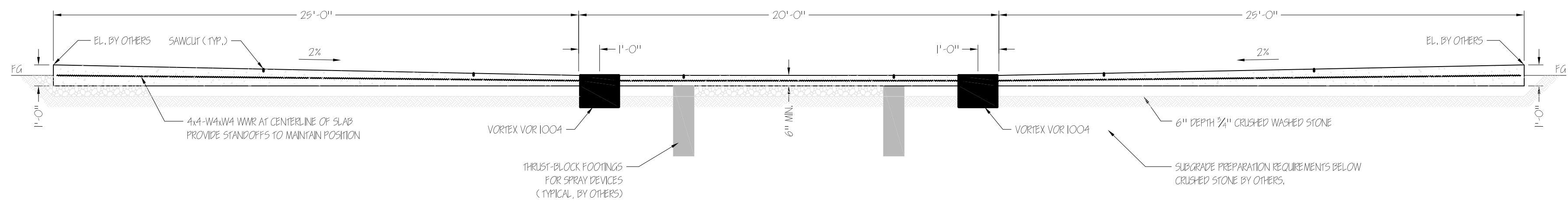
Johnston Memorial Park
Splash Pad - Concrete Slab

DESIGNED BY:	DATE:	DRAWN BY:	DATE:	CHECKED BY:	DATE:

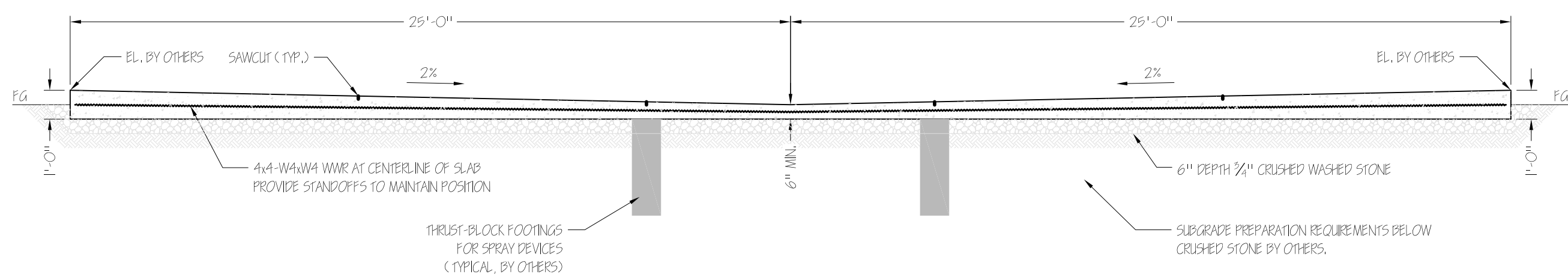
SCALE: 1/4"=1'-0"

PROJ. NO. N/A

DWG. NO. **S-1**



LONGITUDINAL SECTION
CENTERLINE OF SLAB



TRANSVERSE SECTION
CENTERLINE OF SLAB

ERIC J WISHART
No. 6193
REGISTERED
PROFESSIONAL ENGINEER
9/23

REVISIONS				
NO.	DATE	BY	DESCRIPTION	

PREPARED EXCLUSIVELY FOR

O'Brien & Sons, Inc.

SCALE: ADJUSTMENT
GUIDE

0" — 1"

THIS BAR IS ONE INCH ON
THE ORIGINAL DRAWING.

PREPARED BY

EMAIL: civilcadd@gmail.com

Civil CADD Services Inc

150 HIGGINSON AVENUE
TEL. (401) 419-9791

LINCOLN, RI 02865
FAX (401) 723-6866

**Johnston Memorial Park
Splash Pad - Concrete Slab**

DESIGNED BY:	DATE:	DRAWN BY:	DATE:	CHECKED BY:	DATE:

SCALE: 1/4"=1'-0"

PROJ. NO. N/A

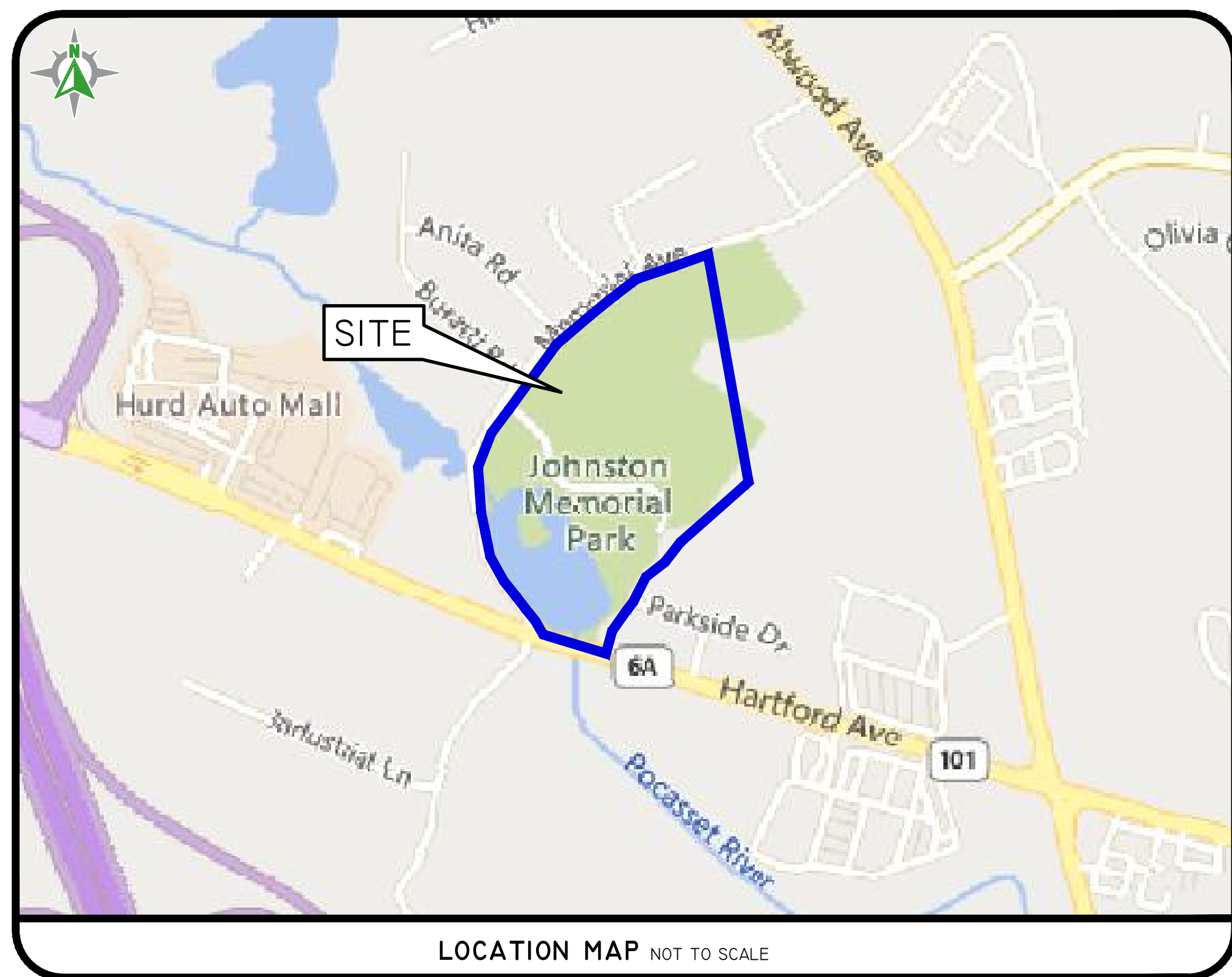
DWG. NO.

S-2

PERMIT SUBMISSION - PHASE I AND PHASE 2

JOHNSTON MEMORIAL PARK

1583 HARTFORD AVENUE
JOHNSTON, RHODE ISLAND
ASSESSOR'S PLAT 53 LOT 24, 25, 71, 72



LOCATION MAP NOT TO SCALE

SESC / O&M
THE SOIL EROSION AND SEDIMENT CONTROL PLAN (SESC) AND STORMWATER OPERATION AND MAINTENANCE PLAN (O&M) ARE REQUIRED DOCUMENTS WITH THIS PLAN SET AND MUST BE MAINTAINED BY THE CONTRACTOR AND OWNER ON SITE.

SEAL OF THE TOWN OF JOHNSTON

TOWN OF JOHNSTON
RHODE ISLAND
1385 HARTFORD AVENUE
JOHNSTON, RI 02919
401-351-6618

THE HONORABLE
MAYOR
JOSEPH M. POLISENA JR

COVER SHEET

JOHNSTON MEMORIAL PARK
ASSESSOR'S PLAT 53 LOTS 24, 25, 71, 72
JOHNSTON, RHODE ISLAND

PREPARED FOR:
TOWN OF JOHNSTON
1385 HARTFORD AVENUE, JOHNSTON, RHODE ISLAND 02919
TEL 401-351-6618

BRIAN P THALMANN

No. 14100

REGISTERED
PROFESSIONAL ENGINEER
CIVIL

THIS PLAN SET MUST NOT BE USED FOR CONSTRUCTION PURPOSES UNLESS IT IS APPROVED BY THE TOWN ENGINEER. ANY CHANGES TO THIS PLAN SET MUST BE MADE BY THE REGISTERED PROFESSIONAL ENGINEER OF DIPRETE ENGINEERING.

DIPRETE ENGINEERING ONLY WARRANTS PLANS ON A DIPRETE PROFESSIONAL ENGINEER OF DIPRETE ENGINEERING. DIPRETE ENGINEERING SHALL NOT BE RESPONSIBLE FOR ANY OTHER PARTY'S USE OF THIS PLAN SET. THE USER SHALL BE RESPONSIBLE FOR THE DESIGN, CONSTRUCTION, AND MAINTENANCE OF THE PROJECT. DIPRETE ENGINEERING ASSUMES NO RESPONSIBILITY FOR THE DESIGN, CONSTRUCTION, AND MAINTENANCE OF THE PROJECT. SEE UTILITY MAPS ON SHEET 3.

NO.	DATE	PHASE	DESCRIPTION	DESIGN BY	BY
1	11-12-2023	PHASE I AND PHASE 2 PLAN		LB.III	

DRAWN BY: L.V.P.

Diprete Engineering

Two Stafford Court Cranston, RI 02920
tel 401-943-1000 fax 401-464-6006 www.diprete-eng.com


Boston • Providence • Newport

Z:\DESHAM\PROJECTS\1982-008 JOHNSTON MEMORIAL AVENUE PARK\AUTOCAD DRAWINGS\1982-008-CVAR.DWG PLOTTER: 11/15/2023

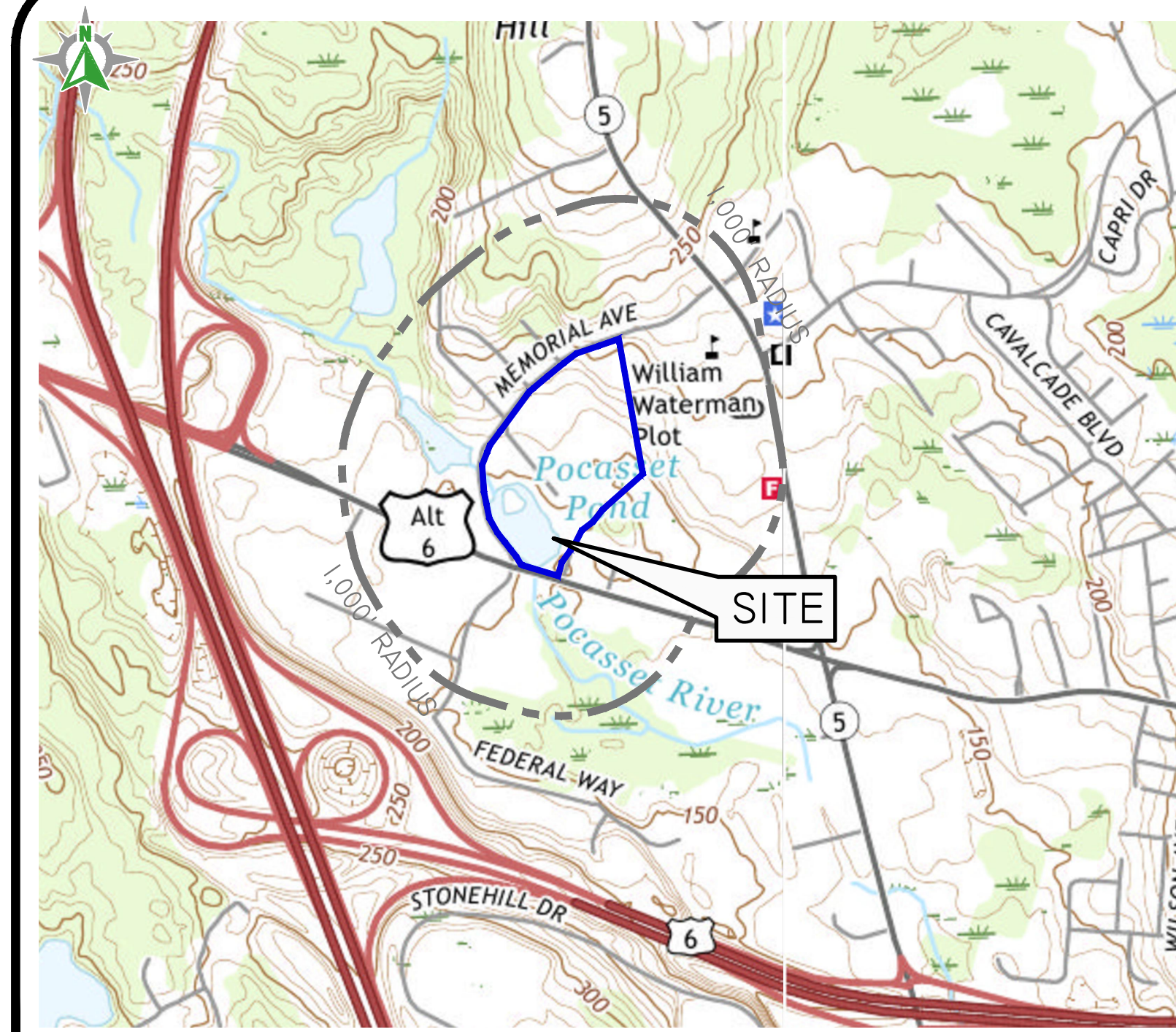
DE JOB NO. 1982-008 COPYRIGHT 2023 BY DIPRETE ENGINEERING ASSOCIATES, INC.

This aerial map of Johnston, Rhode Island, illustrates a 1/2 mile radius around the Pocasset Pond area. The map features several key locations labeled with red text and red leader lines: Johnston High School, Marian J Mohr Memorial Library, Johnston Police Department, Nicholas A. Ferri Middle School, Ridot Facility, Johnston Town Hall, Pocasset River, and Pocasset Pond. A blue line outlines the area around the pond, and a yellow dashed line indicates the 1/2 mile radius. A north arrow is located in the top right corner.

SCALE: 1"=500'




A horizontal scale bar with alternating black and white segments. It is marked with '0', '250'', '500'', and '1000''.



USGS MAP SCALE: 1"=1000'

BRIAN P THALMANN

No.  14109

REGISTERED
PROFESSIONAL ENGINEER
CIVIL

11/15/11

EXISTING UTILITIES SHOWN ON THIS PLAN ARE APPROXIMATE ONLY. DIPRETE ENGINEERING ASSUMES NO RESPONSIBILITY FOR DAMAGES INCURRED DUE TO LOCATIONS OF EXISTING UTILITIES.

0	11-15-2023	PHASE 1 AND PHASE 2 PLAN	L.B.III
NO.	DATE	DESCRIPTION	BY:

Z:\DESHAN\PROJECTS\1982-008 MEMORIAL PARK\AUTOCAD DRAWINGS\1982-008-CARDING.PLOTTER: 10/5/2023

GENERAL NOTES:

- THE SITE IS LOCATED ON THE TOWN OF JOHNSTON ASSESSOR'S PLAT 53 LOTS 24,25,71,72.
- THE SITE IS APPROXIMATELY 27.5 ACRES AND IS ZONED R4.0.
- THE OWNER OF AP 53 LOTS 24,25,71,72 IS:
TOWN OF JOHNSTON
1385 HARTFORD AVENUE
JACKSON, RI 02919
- THIS SITE IS LOCATED IN FEM FLOOD ZONES AE AND X. REFERENCE FEM FLOOD INSURANCE RATE MAP 44007C0284H, MAP REVISED OCTOBER, 2, 2015. FLOOD PLAN DESCRIPTIONS SHOWN BELOW.
 - ZONE AE - THIS SITE IS LOCATED IN FEM FLOOD ZONE AE, ZONE AE ARE SPECIAL FLOOD HAZARD AREAS INUNDATED BY 100-YEAR FLOOD. BASE FLOOD ELEVATIONS HAVE BEEN DETERMINED.
 - ZONE X (UNSHADED) - THIS SITE IS LOCATED IN FEM FLOOD ZONE X, WHICH ARE AREAS WHERE THERE IS MINIMAL FLOODING.
- THE BOUNDARY LINES AS SHOWN ON THE ENGINEERING PLAN SET DEPICTS THE RESULTS OF A CLASS I BOUNDARY RETRACTMENT SURVEY AS PERFORMED BY DIPRETE ENGINEERING. THIS PLAN IS NOT TO BE CONSTRUED AS A CLASS I BOUNDARY RETRACTMENT SURVEY PLAN AND IS NOT SUITABLE FOR RECORDING AS A CLASS I STANDARD SURVEY PLAN.
- CONTOUR DATA SHOWN ON THIS PLAN CONFORMS TO A 1-4 TOPOGRAPHICAL SURVEY STANDARD AS ADOPTED BY THE RHODE ISLAND BOARD OF REGISTRATION FOR PROFESSIONAL LAND SURVEYORS. SAID DATA IS BASED ON ELEVATION INFORMATION THAT WAS COLLECTED WITH AIRBORNE LIDAR TECHNOLOGY FOR THE ENTIRE AREA OF RHODE ISLAND BETWEEN APRIL 22 AND MAY 6, 2011 AS PART OF THE NORTHEAST LIDAR PROJECT. THIS DATA'S POSITIONAL ACCURACY AND RELIABILITY HAS NOT BEEN VERIFIED BY DIPRETE ENGINEERING AND IS SUBJECT TO CHANGES AN AUTHORITY FIELD SURVEY MAY DISCLOSE.
- ALL WORK PERFORMED HEREIN IS TO BE GOVERNED BY CURRENT EDITIONS OF THE RHODE ISLAND STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, TOWN OF JOHNSTON STANDARD SPECIFICATIONS AND DETAILS AND SPECIFICATIONS INCLUDED AS PART OF THE DRAWINGS. IN AREAS OF CONFLICT BETWEEN THE DIFFERENT SPECIFICATIONS, THE DESIGN PLANS AND PROJECT SPECIFICATIONS WILL TAKE PRECEDENCE OVER THE GENERAL SPECIFICATIONS AND THE CEOR WILL INTERPRET THE CONSTRUCTION REQUIREMENT. THE CONTRACTOR IS ADVISED TO SUBMIT A REQUEST FOR INFORMATION (RFI) FOR ANY AREAS OF CONFLICT BEFORE COMMITTING TO CONSTRUCTION.
- THE SITE IS WITHIN A:
NATURAL HERITAGE AREA (RIDEM)
- THE SITE IS NOT WITHIN A:
GROUNDWATER PROTECTION AREA (RIDEM)
NARROW RIVER SPECIAL AREA MANAGEMENT PLAN (CRMC)
SALT PONDS SPECIAL AREA MANAGEMENT PLAN (CRMC)
GROUNDWATER PROTECTION OVERLAY DISTRICT (TOWN)
- THE SITE IS LOCATED WITHIN THE FRESHWATER WETLAND BUFFER URBAN REGION/RIVER PROTECTION REGION I/RIVER PROTECTION REGION 2 PER THE FRESHWATER WETLANDS BUFFER REGIONS MAPS (250-RICR-ISO-15-3,24).
- THE FOLLOWING DOCUMENTS ARE CONSIDERED PART OF THE PROJECT PLANS AND THE CONTRACTOR/OWNER MUST MAINTAIN THESE DOCUMENTS AS PART OF A FULL PLAN SET:
 - SOIL EROSION AND SEDIMENT CONTROL PLAN (SESC). THE SESC CONTAINS THE FOLLOWING:
 - EROSION CONTROL MEASURES
 - SHORT TERM MAINTENANCE
 - ESTABLISHMENT OF VEGETATIVE COVER
 - CONSTRUCTION POLLUTION PREVENTION
 - SEQUENCE OF CONSTRUCTION
 - STORMWATER OPERATION AND MAINTENANCE PLAN (OSM). THE OSM CONTAINS:
 - LONG TERM MAINTENANCE
 - LONG TERM POLLUTION PREVENTION
- THE SITE IS TO BE SERVICED BY PUBLIC WATER AND PUBLIC SEWER.
- THE DRAINAGE SYSTEM IS DESIGNED WILL MEET THE TOWN OF JOHNSTON SUBDIVISION AND LAND DEVELOPMENT REGULATIONS WITH THE USE OF CATCH BASINS, CULVERTS, AND UNDERGROUND DRAINAGE BASINS. THE STORMWATER MANAGEMENT SYSTEM MEETS THE RIDEM BEST MANAGEMENT PRACTICES.
- THE SITE IS PROPOSED TO BE BUILT IN (4) PHASES.
- BORINGS AND BORING LOGS, TEST PITS, SOIL EVALUATIONS, WERE COMPLETED BY DIPRETE ENGINEERING ON AUGUST 9TH 2023.
- WETLAND EDGE DELINEATED BY DIPRETE ENGINEERING AND SURVEYED BY DIPRETE ENGINEERING USING SUBMETER GPS ON DATE MAY 11TH 2023.

SOIL INFORMATION:

(REFERENCE: SOIL MAPPING OBTAINED FROM RIGIS. SOIL GEOGRAPHIC DATA DEVELOPED BY THE RHODE ISLAND SOIL SURVEY PROGRAM IN PARTNERSHIP WITH THE NATIONAL COOPERATIVE SOIL SURVEY)

CBC	CANTON AND CHARLTON FINE SANDY LOAMS, VERY ROCKY, 3 TO 15 PERCENT SLOPES
MU	MERRIMAC-URBAN LAND COMPLEX
RP	RIDGEBURY, WHITMAN, AND LEICESTER EXTREMELY STONY FINE SANDY
UD	UDORTHERNS-URBAN LAND COMPLEX
UR	URBAN LAND

LAYOUT AND MATERIALS:

- DIMENSIONS ARE FROM THE FACE OF CURB, FACE OF BUILDING, FACE OF WALL, AND CENTER LINE OF PAVEMENT MARKINGS, UNLESS OTHERWISE NOTED.
- CURBING MUST BE CAST-IN-PLACE CONCRETE, OR AS LABELED ON THE PLANS.
- SIDEWALK MUST BE CONCRETE, OR AS LABELED ON THE PLANS.
- IT IS THE CONTRACTOR'S RESPONSIBILITY TO MEET ALL SIGNAGE AND PAVEMENT MARKING REQUIREMENTS OF THE MUTCD AND AUTHORITIES HAVING JURISDICTION, REGARDLESS OF ITEMS SHOWN (OR NOT SHOWN) ON THIS PLAN SET. THIS INCLUDES (BUT MAY NOT BE LIMITED TO) SIGN TYPE, NUMBER OF SIGNS, POLE MOUNTING TYPE, PAVEMENT MARKING LOCATIONS/TYPE/ WIDTH, MATERIALS, INSTALLATION METHODS, AND ANY ADDITIONAL SIGNS AND/OR MARKINGS THAT MAY BE REQUIRED. THE CONTRACTOR MUST NOTIFY THE CEOR OF ANY MODIFICATIONS OR DISCREPANCIES PRIOR TO ORDERING OR INSTALLING SIGNAGE/ PAVEMENT MARKINGS.
- SYMBOLS AND LEGENDS OF PROJECT FEATURES ARE GRAPHIC REPRESENTATIONS AND ARE NOT NECESSARILY SCALED TO THEIR ACTUAL DIMENSIONS OR LOCATIONS ON THE DRAWINGS. THE CONTRACTOR MUST REFER TO THE DETAIL SHEET DIMENSIONS, MANUFACTURERS' LITERATURE, SHOP DRAWINGS AND FIELD MEASUREMENTS OF SUPPLIED PRODUCTS FOR LAYOUT OF THE PROJECT FEATURES.
- SEE ARCHITECTURAL AND SPLASH PAD VENDOR DRAWINGS FOR EXACT DIMENSIONS AND DETAILS PERTAINING TO THE SPLASH PAD, INCLUDING SIDEWALKS, RAMPS, ENTRANCES, UTILITY CONNECTIONS, ETC.
- CONTROL POINTS, PROPOSED BOUNDS, AND ANY EXISTING PROPERTY LINE MONUMENTATION DISTURBED DURING CONSTRUCTION MUST BE SET OR RESET BY A PROFESSIONAL LICENSED SURVEYOR.
- CONTRACTOR MUST NOT RELY SOLELY ON ELECTRONIC VERSIONS OF PLANS, SPECIFICATIONS AND DATA FILES THAT ARE OBTAINED FROM THE CEOR. CONTRACTOR MUST VERIFY LOCATION OF PROJECT FEATURES IN ACCORDANCE WITH THE STAMPED PAPER COPIES OF THE PLANS AND SPECIFICATIONS THAT ARE SUPPLIED AS PART OF THE CONTRACT DOCUMENTS.
- ALL GUARDRAIL ONSITE MUST BE STEEL BACKED TIMBER GUARDRAIL WITH STEEL POSTS, IN CONFORMANCE WITH SECTION 5.4.1.7 OF THE AASHTO ROADSIDE DESIGN GUIDE. ALTERNATIVE GUARDRAILS WILL BE CONSIDERED BY THE CEOR IF THEY ARE DOT APPROVED EQUAL AND ACCEPTABLE TO THE OWNER. ALTERNATIVES MUST BE APPROVED IN WRITING BY THE OWNER AND THE CEOR PRIOR TO CONSTRUCTION. GUARDRAIL IS REQUIRED AT ALL ROADWAYS/PARKING LOTS/PAVED TRAFFIC AREAS ADJACENT TO SLOPES WITH A HEIGHT GREATER THAN SIX FEET AT A 3:1 SLOPE, AND AT HEIGHTS GREATER THAN THREE FEET AT A 2:1 SLOPE, AND ALL RETAINING WALLS GREATER THAN TWO FEET IN HEIGHT. THE CONTRACTOR IS RESPONSIBLE TO MEET ANY AND ALL GUARDRAIL PROVISIONS THAT MAY BE REQUIRED BY THE AHJ.
- INFRARED TREATMENT OF PAVEMENT IS REQUIRED AT ALL CURB CUTS, AT ANY DISTURBED PAVEMENT ON ROADWAYS, AND WHERE ANY NEW PAVEMENT MEETS EXISTING PAVEMENT.
- ALL EXISTING PAVEMENT MARKING REMOVED AS INCIDENTAL DURING CONSTRUCTION MUST BE REPLACED IN-KIND FOLLOWING COMPLETION OF CONSTRUCTION UNLESS OTHERWISE NOTED.

SOIL EROSION AND SEDIMENT CONTROL NOTES:

- THE CONTRACTOR IS RESPONSIBLE FOR ALL SOIL EROSION AND SEDIMENT CONTROL ON SITE WHICH MUST BE CONSTRUCTED AND MAINTAINED IN ACCORDANCE WITH THE APPLICABLE REGULATIONS AND AUTHORITY HAVING JURISDICTION. THE CONTRACTOR MUST NOTIFY THE CEOR, THE DIRECTOR OF PUBLIC WORKS, AND RHODE ISLAND DEPARTMENT OF ENVIRONMENTAL MANAGEMENT AT LEAST 48 HOURS PRIOR TO THE START OF CONSTRUCTION.
- ALL EROSION CONTROL INCLUDING (BUT NOT LIMITED TO) TEMPORARY SWALES, TEMPORARY SEDIMENT TRAPS, TEMPORARY SEDIMENT BASINS, DEWATERING BASINS, ETC. MUST BE INSTALLED PER THE LATEST EDITION OF THE RHODE ISLAND SOIL EROSION AND SEDIMENT CONTROL (RISESC) HANDBOOK AND THE SOIL EROSION AND SEDIMENT CONTROL (PLANS). NOTE THE SOIL EROSION AND SEDIMENT CONTROL SHOWN ON THESE PLANS ARE THE MINIMUM QUANTITY/TYPE OF EROSION CONTROL DEVICES AND MATERIALS DEEMED REQUIRED BY THE CEOR TO MEET THE OBJECTIVES OF THE RISESC HANDBOOK, BUT IS CONSIDERED A GUIDE ONLY. ADDITIONAL MEASURES/ALTERNATE CONFIGURATIONS MAY BE REQUIRED IN ORDER TO MEET THE RISESC HANDBOOK BASED ON FACTORS INCLUDING (BUT NOT LIMITED TO) SITE PARAMETERS, WEATHER, INSPECTIONS AND UNIQUE FEATURES. THE SESC WILL CONTINUE TO EVOLVE THROUGHOUT CONSTRUCTION/PHASES. PURSUANT TO NOTE 1 ABOVE, SESC REMAINS THE RESPONSIBILITY OF THE CONTRACTOR UNTIL THE SITE IS FULLY STABILIZED AND/OR SESC RESPONSIBILITIES ARE ASSUMED BY THE OWNER IN WRITING.
- TEMPORARY SWALES MUST BE USED TO CONTROL RUNOFF DURING CONSTRUCTION OF THE PROPOSED SITE WORK, AND MUST BE VEGETATED AFTER CONSTRUCTION. EROSION CONTROL MATS MUST BE INSTALLED, IF NECESSARY, TO PREVENT EROSION AND SUPPORT VEGETATION. AFTER CONSTRUCTION IS COMPLETE AND TRIBUTARY AREAS TO THE SWALES HAVE BEEN STABILIZED, THE TEMPORARY SWALES MUST BE CLEARED AND FINAL DESIGN, INCLUDING INSTALLATION OF THE GRASS SWALE MUST BE PER THE DESIGN PLANS.
- ONCE THE SEDIMENT TRAPS/SEDIMENT BASINS ARE NO LONGER REQUIRED AND ALL TRIBUTARY AREAS HAVE BEEN STABILIZED, THE TEMPORARY SEDIMENT BASINS/TRAPS MUST BE CLEARED AND BROUGHT TO FINAL DESIGN GRADES.
- INLET PROTECTION MUST BE INSTALLED ON ALL CATCH BASINS ONCE CONSTRUCTED.
- FOR SEQUENCE OF CONSTRUCTION, PROJECT PHASING AND CONSTRUCTION PHASING SEE SESC PLAN.
- CONTRACTOR MAY MODIFY SEQUENCE OF CONSTRUCTION WITH APPROVAL FROM THE CEOR AND OWNER.
- IF CONCRETE TRUCKS ARE WASHED OUT ON SITE, ALL WASHOUT MUST BE PERFORMED IN THE DESIGNATED CONCRETE WASHOUT AREA.

SOIL EROSION AND SEDIMENT CONTROL PHASING NOTES:

- OVERALL SITE CONSTRUCTION PHASING TO BE BASED PER SEDIMENT TRAP/ BASIN CONTRIBUTING CATCHMENT, UNLESS OTHERWISE APPROVED IN WRITING BY THE CEOR.
- SEDIMENT EROSION CONTROL PHASING TO MINIMIZE DISTURBANCE TO THE MAXIMUM EXTENT PRACTICABLE.
- ANY AREAS THAT ARE CLEARED AND GRUBBED THAT ARE EITHER A) NOT TRIBUTARY TO A SEDIMENT TRAP OR BASIN, OR B) ARE NOT INTENDED FOR IMMEDIATE DEVELOPMENT/ EARTHWORKING, MUST BE STABILIZED IMMEDIATELY INCLUDING (BUT NOT LIMITED TO) SLOPE INTERRUPTORS, HYDROSEED BONDED FIBRE MATRIX (BFM), EROSION CONTROL MULCH (ECM), OR FLEXIBLE GROWTH MEDIUM (FGM) BEST SUITED TO THE INSITU SOIL PARAMETERS AS ASSESSED BY THE GEOTECHNICAL ENGINEER.

DEMOLITION NOTES:

- CONTRACTOR MUST NOTIFY "DIG SAFE" AT 811 (OR 1-888-364-7233) A MINIMUM OF 72 HOURS BEFORE EXCAVATING.
- CONTRACTOR MUST OBTAIN ALL FEDERAL, STATE, AND MUNICIPAL APPROVALS PRIOR TO THE START OF CONSTRUCTION.
- CONTRACTOR MUST PERFORM DAILY SWEEPING AT CONSTRUCTION ENTRANCES DURING DEMOLITION AND CONSTRUCTION TO MINIMIZE SEDIMENTS ON EXTERNAL STREETS.
- CONTRACTOR MUST BACKFILL ALL TRENCHES BEFORE LEAVING THE SITE AT THE END OF EACH WORK DAY.
- ANY EXISTING BUILDING(S) AND PROPERTY PROPOSED TO REMAIN THAT ARE DAMAGED BY THE CONTRACTOR MUST BE REPAIRED BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE OWNER.
- CONTRACTOR IS RESPONSIBLE FOR REMOVING AND LEGALLY DISPOSING (R&D) ALL MATERIALS INDICATED ON THE PLANS UNLESS SPECIFIED OTHERWISE HEREIN. R&D MATERIALS INCLUDE BUT ARE NOT LIMITED TO PAVEMENT, GRAVEL, CATCH BASINS, MANHOLES, GRATES/FRAMES/COVERS, AND ANY EXCESS SOIL THAT IS NOT INCORPORATED INTO THE WORK.
- IN ADDITION TO THOSE AREAS SPECIFICALLY DESIGNATED ON THE PLANS, ALL DISTURBED AREAS INCLUDING THE CONTRACTOR'S STOCKPILE AND STAGING AREAS WITHIN THE LIMIT OF WORK MUST BE RESTORED TO MATCH THE DESIGN PLANS.
- CONTRACTOR MUST DOCUMENT LOCATION OF ALL SUBSURFACE UTILITIES REMAINING IN PLACE AFTER DEMOLITION (ACTIVE AND INACTIVE/ABANDONED). LOCATION MUST BE DOCUMENTED BY FIELD SURVEY OR SWING TIES. COPIES OF LOCATION DOCUMENTATION MUST BE PROVIDED TO THE OWNER FOLLOWING COMPLETION OF DEMOLITION AND PRIOR TO START OF NEW CONSTRUCTION. A MARKER MUST BE INSTALLED TO FINISH GROUND AT ALL INSTALLED CAPS/PLUGS. THE MARKER CAN BE A POST IN CONSTRUCTION AREAS OR PAINTED ON A PERMANENT SURFACE.
- ACTIVE UTILITY LINES AND STRUCTURES NOT SPECIFICALLY NOTED ON PLANS, BUT WHICH ARE ENCOUNTERED TO BE IN CONFLICT WITH THE PROPOSED WORK, MUST BE EXTENDED, PROTECTED, OR REWORKED BY THE CONTRACTOR AS DIRECTED OR REQUIRED BY THE UTILITY ENTITY OR OWNER UNLESS OTHERWISE NOTED.
- CONTRACTOR MUST COORDINATE THE CUTTING AND CAPPING OF ALL UTILITIES WITH THE OWNER, THE MUNICIPALITY, AND ALL APPLICABLE UTILITY ENTITIES HAVING JURISDICTION.
- INACTIVE SUBSURFACE UTILITIES NOT IN CONFLICT WITH THE PROPOSED WORK AREA MAY BE ABANDONED IN PLACE WITH WRITTEN PERMISSION FROM THE OWNER.

AS-BUILT NOTES:

ALL COMPONENTS OF THE DRAINAGE, SEWER, AND WATER SYSTEMS MUST BE FIELD LOCATED PRIOR TO COVERING. SURVEY SURVEYOR A MINIMUM OF SEVENTY-TWO (72) HOURS IN ADVANCE OF NEED FOR FIELD LOCATION OF IMPROVEMENTS. SURVEYOR MUST PROVIDE OWNER AND CONTRACTOR WITH WRITTEN NOTICE OF COMPLETION OF FIELD WORK PRIOR TO CONTRACTOR COVERING IMPROVEMENTS. OWNER/DIPRETE ENGINEERING WILL NOT ACCEPT FIELD MEASUREMENTS FROM THE SITE CONTRACTOR.

GRADING, DRAINAGE, AND UTILITY NOTES:

- CONSTRUCTION TO COMMENCE FALL 2023 OR UPON RECEIPT OF ALL NECESSARY APPROVALS.
- THE CONTRACTOR MUST COORDINATE WITH ALL OF THE APPROPRIATE UTILITY COMPANIES FOR AGREEMENTS TO SERVICE THE PROPOSED BUILDING. THIS MUST BE DONE PRIOR TO CONSTRUCTION. NO REPRESENTATIONS ARE MADE BY DIPRETE ENGINEERING THAT UTILITY SERVICE IS AVAILABLE.
- THE CONTRACTOR IS RESPONSIBLE FOR DETERMINING FINISH GRADING AND DRAINAGE AROUND THE BUILDING TO ENSURE SURFACE WATER AND/OR GROUNDWATER IS DIRECTED AWAY FROM THE STRUCTURE.
- PRIOR TO START OF CONSTRUCTION, CONTRACTOR MUST VERIFY EXISTING PAVEMENT ELEVATIONS AND CERTIFIED TO THE OWNER PRIOR TO THE COMPLETION OF THE PROJECT. SHOP DRAWINGS MUST BE SUBMITTED PRIOR TO CONSTRUCTION. FINAL STRUCTURAL DESIGN MUST INCORPORATE THE INTENT OF THE GRADING SHOWN ON THESE PLANS AND ALL WORK MUST BE WITHIN THE LIMIT OF DISTURBANCE SHOWN ON THE PLANS.
- ALL PROPOSED UNDERGROUND UTILITIES SERVING THE SITE AND BUILDINGS MUST BE COORDINATED WITH OWNER, ARCHITECT, AND ENGINEER PRIOR TO INSTALLATION.
- ALL RETAINING WALLS AND STEEP SLOPES ARE SUBJECT TO FINAL STRUCTURAL DESIGN. DIPRETE ENGINEERING IS NOT PROVIDING THE STRUCTURAL DESIGN OF THESE ITEMS. ALL WALLS AND STEEP SLOPES MUST BE DESIGNED AND BUILT UNDER THE DIRECTION OF A RHODE ISLAND LICENSED PROFESSIONAL ENGINEER SUITABLY QUALIFIED IN GEOTECHNICAL ENGINEERING AND CERTIFIED TO THE OWNER PRIOR TO THE COMPLETION OF THE PROJECT. SHOP DRAWINGS MUST BE SUBMITTED PRIOR TO CONSTRUCTION. FINAL STRUCTURAL DESIGN MUST INCORPORATE THE INTENT OF THE GRADING SHOWN ON THESE PLANS AND ALL WORK MUST BE WITHIN THE LIMIT OF DISTURBANCE SHOWN ON THE PLANS.
- ALL CUT AND FILL WORK MUST BE DONE UNDER THE DIRECTION OF A PROFESSIONAL GEOTECHNICAL ENGINEER, WITH TESTING AND CERTIFICATION PROVIDED TO THE OWNER AT THE COMPLETION OF THE PROJECT. DIPRETE ENGINEERING IS NOT PROVIDING THE FILL SPECIFICATION, GEOTECHNICAL ENGINEERING, STRUCTURAL ENGINEERING SERVICES, OR SUPERVISION AS PART OF THESE DRAWINGS.
- MATERIAL STOCKPILES MUST NOT BE LOCATED IN THE RIGHT-OF-WAY, AND TRENCHES MUST NOT BE LEFT OPEN OVERNIGHT.
- ALL LOAM IN DISTURBED AREAS MUST BE STOCKPILED FOR FUTURE USE.
- ALL EXCESS SOIL, TREES, ROCKS, BouldERS, AND OTHER REFUSE, MUST BE DISCARDED OFF SITE IN ACCORDANCE WITH ALL FEDERAL, STATE AND LOCAL REGULATIONS. STUMPS MUST BE GROUND ON SITE OR REMOVED.
- THE SITE WILL HAVE 3" BITUMINOUS BERM AND/OR 6" CONCRETE/GRANITE CURBING. SITE GRADING/CONTOURS SHOWN ON THE PLANS DO NOT NECESSARILY REFLECT THE APPROPRIATE BERM/CURBING REVEAL. CONTRACTOR MUST INSTALL CURBING WITH APPROPRIATE REVEAL UNLESS OTHERWISE NOTED.
- NO STUMP DUMPS ARE ALLOWED ON SITE.
- ALL DRAINAGE OUTFALLS ARE DESIGNED TO BE INSTALLED AT EXISTING GROUND ELEVATION. CONTRACTOR MUST IMMEDIATELY NOTIFY THE CEOR OF ANY DISCREPANCIES WHERE EXISTING GROUND IS HIGHER THAN OUTFALL DESIGN ELEVATION. ANY RESOLUTION OF DISCREPANCIES BY THE CONTRACTOR, UNLESS AUTHORIZED IN WRITING IN ADVANCE BY THE OWNER AND THE CEOR, IS DONE AT THE CONTRACTOR'S RISK.
- CONTRACTOR MUST PROVIDE SUE CUTTING AND FULL DEPTH PAVEMENT RESTORATION IN AREAS WHERE PAVEMENT AND/OR SIDEWALK IS REMOVED FOR UTILITY INSTALLATION.
- IF ROADWAY SURFACE PAVEMENT CURBS IS NOT TO BE INSTALLED FOR 12 MONTHS OR MORE AFTER INSTALLATION OF DRAINAGE STRUCTURES, ALL CATCH BASIN RIMS MUST BE SET AT BINDER GRADE AND RAISED TO FINAL PAVEMENT GRADE PRIOR TO PLACEMENT OF SURFACE COURSE.
- ALL RESIDENTIAL BUILDING SLABS (BASEMENT AND/OR SLAB ON GRADE), REGARDLESS OF FINISH FLOOR ELEVATIONS SHOWN ON PLANS, MUST HAVE A MINIMUM OF 12" OF SEPARATION TO THE SEASONAL HIGH GROUNDWATER TABLE.
- CONTRACTOR MUST HOLD/ SUPPORT/ RESTORE ALL EXISTING UTILITY COMPONENTS INCLUDING (BUT NOT LIMITED TO) POLES, MOST ARMS AND ABOVEGROUND OBJECTS AS NECESSARY DURING THE PROPOSED WORKS AND ELECTRICAL INSTALLATION. CONTRACTOR MUST COORDINATE SAID WORKS WITH ALL ASSOCIATED UTILITY OWNERS ACCORDINGLY. ANY EXISTING ITEMS DAMAGED OR REMOVED AS INCIDENTAL DURING UTILITY CONNECTION/ ELECTRICAL INSTALLATION INCLUDING (BUT NOT LIMITED TO) CURBS IN THE ROW MUST BE REPLACED IN KIND FOLLOWING COMPLETION OF WORK DAY.
- LARCH LANDSCAPE ARCHITECT
- LF LINEAR FEET
- LOD LIMIT OF DISTURBANCE
- LP LIGHT POLE
- (M) MEASURED
- MEP MECHANICAL/ELECTRICAL/ PLUMBING ENGINEER

DRAINAGE

ALL DRAINAGE PIPING MUST BE HIGH-DENSITY POLYETHYLENE (HDPE), OR EQUAL, WITH WATERTIGHT JOINTS WITHIN THE SEASONAL HIGH GROUNDWATER TABLE, UNLESS OTHERWISE NOTED. OTHERWISE ON THE PLANS OR IN THE SPECIFICATIONS. ALL DRAINAGE STRUCTURES MUST BE WATERTIGHT. ALL STORMWATER PIPE WITHIN THE STATE'S RIGHT-OF-WAY MUST BE REINFORCED CONCRETE PIPE (RCP). DRAINAGE STRUCTURES DO NOT REQUIRE BRICK INVERT AS SHOWN IN DOT DETAILS.

DRAINAGE STRUCTURES MUST BE AS FOLLOWS (UNLESS OTHERWISE NOTED ON PLANS):

- CATCH BASINS ALONG CURBING: RIDOT STD. 4.4.0, TYPE F, 4' DIAMETER WITH APRON STONE
- CATCH BASINS NOT ALONG CURBING: RIDOT STD 4.4.0, 4.4.1 DIAMETER
- CATCH BASINS MUST HAVE 3 FT SLUMPS WITHOUT SEEP HOLES
- SINGLE FRAME CATCH BASIN GRATES: RIDOT STD 6.3.2
- DOUBLE FRAME CATCH BASIN GRATES: RIDOT STD 6.3.2
- HIGH CAPACITY CATCH BASIN GRATES: RIDOT STD 6.3.4 AND INSTALLED ANYWHERE GRADES ARE 6% AND STEEPER
- DRAINAGE MANHOLE COVERS: RIDOT STD 6.2.1
- DROP INLETS: RIDOT STD 4.5.0, 4.5.1 OR 4.5.2
- APRON STONE: WHEN REQUIRED: RIDOT STD 7.1.7 OR 7.1.8
- HEADWALLS: RIDOT STD 2.1.0
- MANHOLES: RIDOT STD 4.2.0, 4.2.1 OR 4.2.2 AS REQUIRED. SEE NOTES BELOW FOR COVER TYPE SELECTION.
- ALL OUTLET CONTROL STRUCTURES (OCS) AND DRAINAGE MANHOLES WITH INTERNAL WEIRS MUST USE FLAT TOP STRUCTURE COVER.
- FOR ALL OTHER DRAINAGE STRUCTURES: IT IS THE CONTRACTORS RESPONSIBILITY TO DETERMINE THE APPROPRIATE STRUCTURE TOP REQUIRED (E.G. CONE TOP, FLAT TOP) TO MEET THE DESIGN PARAMETERS AS SHOWN ON THESE PLANS, INCLUDING (BUT NOT LIMITED TO) THE RELATIONSHIP BETWEEN FINISH SURFACE ELEVATION/ DEPTH TO PIPE INVERTS AND MEETING MANUFACTURER/ AHJ REQUIREMENTS & SPECIFICATIONS.

DRAINAGE CONNECTIONS FROM ALL YARD DRAINS (YD), AREA DRAINS (AD), TRENCH DRAINS (TD), FRENCH DRAINS (FD), WALL DRAINS (WD), AND DOWNSPOUTS (DS) ARE SHOWN FOR SCHEMATIC PURPOSES ONLY. THE LEVEL OF DETAIL SHOWN DOES NOT INCLUDE ALL JOINTS THAT MAY BE REQUIRED FOR CONSTRUCTION. ALL FITTINGS AND PIPE SLOPES THAT THE INTO MAIN TRUNK LINE MUST BE FIELD FIT BY CONTRACTOR.

SANITARY SEWER

ALL SANITARY SEWER PIPING MUST BE SDR 35 UNLESS NOTED OTHERWISE ON THE PLANS OR IN THE SPECIFICATIONS. ALL SEWER IMPROVEMENTS MUST COMPLY WITH THE NARRAGANSETT BAY COMMISSION RULES AND REGULATIONS AND ANY APPLICABLE AUTHORITY HAVING JURISDICTION, INCLUDING (BUT NOT LIMITED TO) MATERIALS, DIMENSIONS AND ACCESS COVERS. CONTRACTOR MUST SUBMIT SHOP DRAWINGS FOR APPROVAL BY ENGINEER OR RECORD PRIOR TO CONSTRUCTION.

ALL PIPES FROM BUILDING TO GREASE TRAP/INTERCEPTOR AND FROM GREASE TRAP/INTERCEPTOR TO THE NEXT STRUCTURE MUST BE CAST IRON AND IN ACCORDANCE WITH 284CR.

WATER

ALL WATER MAINS MUST BE CEMENT LINED DUCTILE IRON PIPE (CLDIP). ALL WATER MAIN IMPROVEMENTS MUST COMPLY WITH PROVIDENCE WATER REGULATIONS AND ANY APPLICABLE AUTHORITY HAVING JURISDICTION, INCLUDING (BUT NOT LIMITED TO) MATERIALS, DIMENSIONS AND ACCESS COVERS. CONTRACTOR TO PROVIDE SHOP DRAWINGS AND SUBMITTALS TO THE ENGINEER OF RECORD FOR APPROVAL FOR ALL WATER IMPROVEMENTS AND APPURTENANCES INCLUDING BUT NOT LIMITED TO PIPES, VALVES, FITTINGS, HEAT ENCLOSURES, AND BACKFLOW PREVENTERS. ALL COMPONENTS OF THE WATER SYSTEM MUST BE ASBUILT PER PROVIDENCE WATER REQUIREMENTS. ALL COMPONENTS OF THE WATER SYSTEM MUST BE INSPECTED BY PROVIDENCE WATER. CONTRACTOR MUST COORDINATE ALL IMPROVEMENTS WITH PROVIDENCE WATER TO ENSURE INSPECTOR IS ON SITE.

IN THE CASE OF ANY NEW HYDRANT INSTALLED IN OR NEXT TO AN EXISTING SIDEWALK, THE CONTRACTOR MUST INCREASE THE WIDTH OF THE SIDEWALK, AS NECESSARY, TO MAINTAIN A MINIMUM OF 3'-0" CLEAR WIDTH FROM THE OUTERMOST COMPONENTS OF THE HYDRANT TO THE EDGE OF THE SIDEWALK. THE 3'-0" SIDEWALK WIDTH IS REQUIRED ONLY ON ONE SIDE OF THE HYDRANT TO PROVIDE A CLEAR PATH ON THE SIDEWALK.

ELECTRIC/TELECOM/ GAS

PROPOSED GAS, ELECTRIC, CABLE AND DATA UTILITIES ARE SHOWN SCHEMATICALLY AND ARE PROPOSED TO BE UNDERGROUND. OWNER AND CONTRACTOR MUST COORDINATE FINAL DESIGN WITH APPROPRIATE UTILITY COMPANIES. ALL WORK MUST BE IN ACCORDANCE WITH EACH UTILITY COMPANY'S STANDARDS AND DETAILS AS WELL AS LOCAL AND FEDERAL REGULATIONS. THIS INCLUDES BUT IS NOT LIMITED TO PIPES, VALVES, FITTINGS, HEAT ENCLOSURES, AND BACKFLOW PREVENTERS. ALL CONNECTIONS MUST BE MADE TO THE APPROPRIATE UTILITY COMPANIES. THE CONTRACTOR IS RESPONSIBLE FOR PROVIDING THE LEVEL OF CARE NECESSARY TO BE CERTAIN THAT THE CONSTRUCTED PRODUCT MEETS ADA/CONTROLLING STANDARDS. IN THE EVENT OF ANY NONCOMPLIANCE, THE CONTRACTOR MUST NOTIFY THE CEOR BEFORE CONSTRUCTION FOR ADVICE IN FINDING A RESOLUTION.

SITE LIGHTING

SITE LIGHTING (TEMPORARY AND PERMANENT) MUST BE DIRECTED AWAY FROM AND SHIELDED FROM ENVIRONMENTALLY SENSITIVE AREAS AND ABUTTING LANDS. EXACT LOCATIONS OF LIGHT POLES MUST BE COORDINATED WITH THE APPROPRIATE UTILITIES, AND MUST BE LOCATED WITHIN THE STREET RIGHT-OF-WAY. FINAL LIGHTING AND CONDUIT LOCATIONS BY OTHERS.

ABBREVIATIONS LEGEND

ADA	AMERICANS WITH DISABILITY ACT	N/F	NOW OR FORMERLY
AHJ	AUTHORITY HAVING JURISDICTION	OHW	OVERHEAD WIRE
AP	ASSESSOR'S PLAT	PE	POLYETHYLENE
ARCH	ARCHITECT	ℙ	PROPERTY LINE
BC	BOTTOM OF CURB	PR	PROPOSED
BT	BOTTOM OF TESTHOLE	PVC	POLYVINYL CHLORIDE
BIT	BITUMINOUS (BERM)	R	RADIUS
BIO	BIORETENTION	R&D	REMOVE AND DISPOSE
BS	BASEMENT SLAB ELEVATION	RCP	REINFORCED CONCRETE PIPE
BW	FINISHED GRADE AT BOTTOM OF WALL	RHB	RHODE ISLAND
CB	CATCH BASIN	RL	HIGHWAY BOUND
(C)	CALCULATED	RL	ROOF LEADER
℄	CENTERLINE	ROW	RIGHT-OF-WAY
CA	CHORD ANGLE	S	SLOPE
CEOR	CIVIL ENGINEER OF RECORD. DIPRETE ENGINEERING UNLESS DESIGNATED OTHERWISE BY OWNER	SD	SUBDRAIN
CLDIP	CONCRETE LINED DUCTILE IRON PIPE	SED	SEDIMENT FOREBAY
CO	CLEAN OUT	SF	SQUARE FOOT
CONC	CONCRETE	SFL	STATE FREEWAY LINE
(D)	DEED	SMF	SEWER FORCE MAIN
DCB	DOUBLE CATCH BASIN	SG	SLAB ON GRADE ELEVATION
DI	DROP INLET	SHL	STATE HIGHWAY LINE
DMH	DRAINAGE MANHOLE	SMH	SEWER MANHOLE
DP	DETENTION POND	SNDF	SAND FILTER
ELEV	ELEVATION	SS	SIDE SLOPE
EGP	EDGE OF PAVEMENT	STA	STATION
ESC	EROSION AND SEDIMENT CONTROL	TC	TOP OF CURB
EX	EXISTING	TD	TRENCH DRAIN
FES	FLARED END SECTION	TF	TOP OF FOUNDATION
FFE	FINISH FLOOR ELEVATION	TRANS	TRANSITION
GS	GARAGE SLAB ELEVATION	TW	TOP OF WALL (FINISHED)
GW	GROUND WATER TABLE	GRADE AT TOP OF WALL)	
HW	HEADWALL	UDS	UNDERGROUND
HC	HIGH CAPACITY CATCH BASIN GRATE	UIS	UNDERGROUND
HOPE	HIGH DENSITY POLYETHYLENE	UIS	INFILTRATION SYSTEM
ID	INLINE DRAIN	UP	UTILITY POLE
INV	INVERT	WO	WALKOUT ELEVATION
IP	INFILTRATION POND	WQ	WATER QUALITY
LARCH	LANDSCAPE ARCHITECT		
LF	LINEAR FEET		
LOD	LIMIT OF DISTURBANCE		
LP	LIGHT POLE		
(M)	MEASURED		
MEP	MECHANICAL/ELECTRICAL/ PLUMBING ENGINEER		

SITE CALL OUTS LEGEND

NOT ALL ITEMS SHOWN WILL APPEAR ON PLANS

48.1.0	RIDOT STD DETECTABLE WARNING SYSTEM
ADAS	ADA SPACE PAVEMENT MARKINGS MUST COMPLY WITH ALL ADA AND MUTCD REGULATIONS AND REQUIREMENTS.
ADAR	ADA CURB RAMP MUST COMPLY WITH ALL ADA REGULATIONS AND REQUIREMENTS.

AMERICANS WITH DISABILITIES ACT (ADA) NOTES:

- ALL IMPROVEMENTS MUST COMPLY WITH THE "AMERICANS WITH DISABILITIES ACT ACCESSIBILITY GUIDELINES" (ADAG) BY THE US DEPARTMENT OF JUSTICE (CURRENT EDITION).
- MAXIMUM RUNNING SLOPE ALONG ALL ACCESSIBLE PATHS OF TRAVEL MUST BE 4.5% (0.045 FT/FT), AND MAXIMUM CROSS SLOPE ACROSS ALL ACCESSIBLE PATHS OF TRAVEL MUST BE 1.5% (0.015 FT/FT).
- ADA PARKING SPACES AND LOADING AREAS: THE STEEPEST SLOPE OF THE SPACE, MEASURED IN ANY DIRECTION (INCLUDING DIAGONALLY), MUST BE LESS THAN OR EQUAL TO 2% (0.02 FT/FT). THE CEOR GENERALLY RECOMMENDS A MAXIMUM OF 1.4% (0.014 FT/FT) BE USED FOR BOTH RUNNING AND CROSS SLOPES IN ORDER TO COMPLY.
- A MINIMUM 5'x8' LANDINGS MUST BE PROVIDED IN FRONT OF ALL PUBLICLY ACCESSIBLE BUILDING ENTRANCES/ EGRESSSES. THE STEEPEST SLOPE OF THE RAMP LEADING TO THE ENTRANCE (INCLUDING DIAGONAL), MUST BE LESS THAN OR EQUAL TO 2% (0.02 FT/FT). THE CEOR GENERALLY RECOMMENDS A MAXIMUM OF 1.4% (0.014 FT/FT) BE USED FOR BOTH RUNNING AND CROSS SLOPES IN ORDER TO COMPLY.
- FOR EVERY 6 (OR FRACTION OF 6) ADA PARKING SPACES, AT LEAST ONE MUST BE A VAN PARKING SPACE. FOR EXAMPLE, IF 7 ADA PARKING SPACES ARE REQUIRED, A MINIMUM OF 2 MUST BE VAN SPACES.
- NOTWITHSTANDING THE NOTES LISTED ABOVE, TOWN OR STATE-SPECIFIC STANDARDS MAY BE MORE STRINGENT AND OVERRULE. IT IS THE RESPONSIBILITY OF THE USER OF THIS PLAN SET TO MAINTAIN COMPLIANCE WITH THE CONTROLLING STANDARD.
- NOTE THAT THE GRADING/PLAN VIEWS AND DETAILS CONTAINED WITHIN THIS PLAN SET MAY NOT SHOW THE DETAIL NECESSARY TO CONSTRUCT WALKWAYS, RAMPS AND SPACES TO COMPLY WITH THE ABOVE REQUIREMENTS. THE CONTRACTOR IS RESPONSIBLE FOR PROVIDING THE LEVEL OF CARE NECESSARY TO BE CERTAIN THAT THE CONSTRUCTED PRODUCT MEETS ADA/CONTROLLING STANDARDS. IN THE EVENT OF ANY NONCOMPLIANCE, THE CONTRACTOR MUST NOTIFY THE CEOR BEFORE CONSTRUCTION FOR ADVICE IN FINDING A RESOLUTION.

EXISTING LEGEND

(AS SHOWN ON PROPOSED PLANS)

NOT ALL ITEMS SHOWN WILL APPEAR ON PLANS

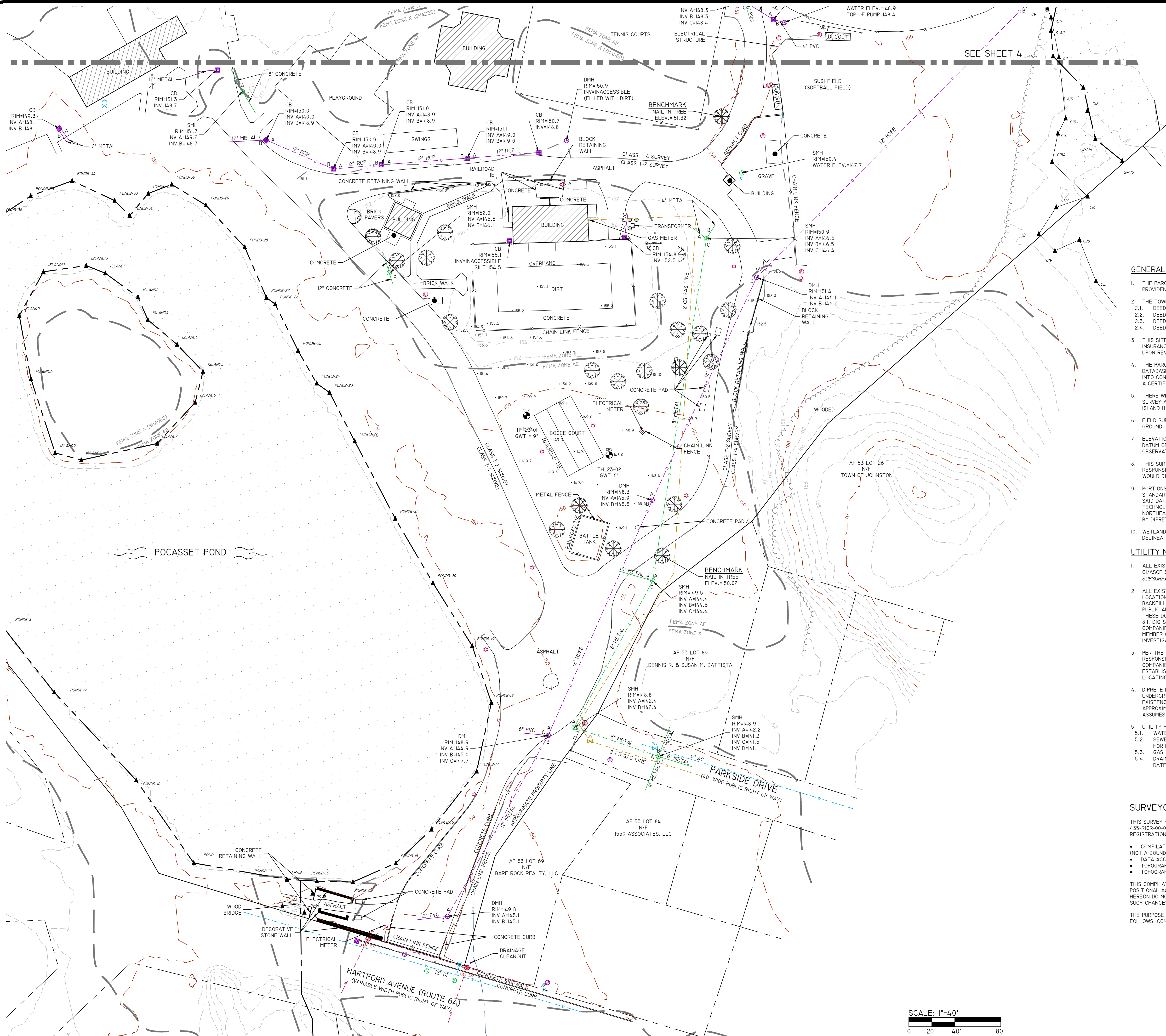
PROPERTY LINE	△/△	NAIL FOUND/SET
ASSESSORS LINE	●/●	DRILL HOLE FOUND/SET
BUILDING	○/○	IRON ROD FOUND/SET
BRUSHLINE	■/□	BOUND FOUND/SET
TREELINE	—	SIGN
GUARDRAIL	●	BOLLARD
FENCE	●	SOIL EVALUATION
RETAINING WALL	CB	CATCH BASIN
STONE WALL	DCB	DOUBLE CATCH BASIN
MINOR CONTOUR LINE	FES	FLARED END SECTION
MAJOR CONTOUR LINE	GUY POLE	
WATER LINE	EMH	ELECTRIC MANHOLE
SEWER LINE	UP	UTILITY/POWER POLE
SEWER FORCE MAIN	○	LIGHTPOST
GAS LINE	SMH	SEWER/SEPTIC MANHOLE
ELECTRIC LINE	SV	SEWER VALVE
OVERHEAD WIRES	●	CLEANOUT
DRAINAGE LINE	✕	HYDRANT
SOILS LINES	—	IRRIGATION VALVE
25' BUFFER	WV	WATER VALVE
50' BUFFER	—	WELL
75' BUFFER	●	MONITORING WELL
100' BUFFER	○	UNKNOWN MANHOLE
150' BUFFER	SV	GAS VALVE
200' BUFFER	—	BENCH MARK
FEMA BOUNDARY	—	STREAM FLOW DIRECTION
STREAM	↑ SWS ↑	GROUNDWATER OVERLAY
WETLAND LINE & FLAG	↑ SWRA ↑	GROUNDWATER RECHARGE AREA
STATE HIGHWAY LINE	↑ SWR ↑	GROUNDWATER RESERVOIR
STATE FREEWAY LINE	↑ SWA ↑	NATURAL HERITAGE
	↑ SWP ↑	COMMUNITY WELLHEAD
		PROTECTION
		NON-COMMUNITY
		WELLHEAD PROTECTION

PROPOSED LEGEND

NOT ALL ITEMS SHOWN WILL APPEAR ON PLANS

	PROPERTY LINE		DRAINAGE LINE
	BUILDING SETBACKS		PERFORATED SUBDRAIN
	CHAINLINK FENCE		SWALE
	GUARDRAIL SEE LAYOUT AND MATERIALS NOTE 10.		SEWER FORCE MAIN
	RETAINING WALL		GAS LINE
	MINOR CONTOUR LINE		WATER LINE
	MAJOR CONTOUR LINE		HYDRANT ASSEMBLY
	SPOT ELEVATION		WATER SHUT OFF
	EDGE OF PAVEMENT		WATER VALVE
	BITUMINOUS BERM		THRUST BLOCK
	CONCRETE CURB (RIDOT STD 7.1.0)		SEWER LINE
	MONOLITHIC CONCRETE CURB AND SIDEWALK		OVERHEAD WIRE
	BUILDING FOOTPRINT		ELECTRIC, TELEPHONE, CABLE LINE
	BUILDING OVERHANG		LIMIT OF DISTURBANCE/ LIMIT OF CLEARING
	ASPHALT PAVEMENT		SLOPES STEEPER THAN 3:1 OR 1:1 (SLOPES)
	HEAVY DUTY ASPHALT PAVEMENT		UNDERGROUND INFILTRATION OUTLINE
	HEAVY DUTY CONCRETE		POND ACCESS
	MILL AND OVERLAY		RIPRAP
	CONCRETE		SAND FILTER
	ASPHALT SIDEWALK		CATCH BASIN
	SAWCUT LINE		DOUBLE CATCH BASIN
	SIGN (RIDOT STD 24.6.2 AS APPLICABLE)		DRAINAGE MANHOLE
	ACCESSIBLE PARKING SPACE SYMBOLS		FLARED END SECTION
	BUILDING INGRESS/EGRESS		HEADWALL
			SEWER MANHOLE
			SINGLE LIGHT
			DOUBLE LIGHT
			OVERHANGING LIGHT

2:\dmsm\projects\1982-008 memorial avenue park\unlocad drawings\1982-008 excuving.dwg Printed: 8/22/2023



GENERAL NOTES

1. THE PARCEL IS FOUND ON ASSESSOR'S PLAT 53, LOTS 24, 25, 71 AND 72 IN THE TOWN OF JOHNSTON, PROVIDENCE COUNTY, RHODE ISLAND.
2. THE TOWN OF JOHNSTON IS THE OWNER PER:
 - 2.1. DEED BOOK 64 PAGE 193, (AP 53, LOT 24)
 - 2.2. DEED BOOK 63 PAGE 455, (AP 53, LOT 25)
 - 2.3. DEED BOOK 60 PAGE 107, (AP 53, LOT 71)
 - 2.4. DEED BOOK 64 PAGE III, (AP 53, LOT 72)
3. THIS SITE IS LOCATED IN FEMA FLOOD ZONE X, X (SHADED) AND AE (ELEV.151-152). REFERENCE FEMA FLOOD INSURANCE RATE MAP 44007C0284H, MAP REVISED OCTOBER 2, 2015. THIS DESIGNATION MAY CHANGE BASED UPON REVIEW BY A FLOOD ZONE SPECIALIST OR BY THE RESULTS OF A COMPREHENSIVE FLOOD STUDY.
4. THE PARCEL IS ZONED RESIDENCE R-40 AND GENERAL BUSINESS B-2 BASED ON THE TOWN OF JOHNSTON GIS DATABASE. ANY OVERLAY DISTRICTS, SPECIAL PERMITS OR VARIANCES SPECIFIC TO THIS SITE ARE NOT TAKEN INTO CONSIDERATION. PLEASE CONTACT THE ZONING DEPARTMENT FOR ANY ADDITIONAL INFORMATION OR FOR A CERTIFICATE OF ZONING.
5. THERE WERE NO CEMETERIES, GRAVE SITES AND OR BURIAL GROUNDS OBSERVED WITHIN THE LIMITS OF THE SURVEY AND THERE ARE NO CEMETERIES, GRAVE SITES AND OR BURIAL GROUNDS SHOWN ON THE RHODE ISLAND HISTORICAL CEMETERIES ONLINE DATABASE.
6. FIELD SURVEY PERFORMED BY DIPRETE ENGINEERING IN JUNE AND JULY, 2023. THIS PLAN REFLECTS ON THE GROUND CONDITIONS AS OF THAT DATE.
7. ELEVATIONS SHOWN HEREON, IN U.S. SURVEY FEET, ARE REFERENCED TO THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD 88), AS DETERMINED BY DIPRETE ENGINEERING USING REAL TIME KINEMATIC G.P.S. OBSERVATIONS.
8. THIS SURVEY WAS PREPARED WITHOUT THE BENEFIT OF A TITLE REPORT. DIPRETE ENGINEERING IS NOT RESPONSIBLE FOR ANY UNKNOWN OR UNRECORDED EASEMENTS, DEEDS OR CLAIMS THAT A TITLE REPORT WOULD DISCLOSE.
9. PORTIONS OF THE CONTOUR DATA SHOWN ON THIS PLAN CONFORMS TO A T-4 TOPOGRAPHICAL SURVEY STANDARD AS ADOPTED BY THE RHODE ISLAND BOARD OF REGISTRATION FOR PROFESSIONAL LAND SURVEYORS. SAID DATA IS BASED ON ELEVATION INFORMATION THAT WAS COLLECTED WITH AIRBORNE LIDAR TECHNOLOGY FOR THE ENTIRE AREA OF RHODE ISLAND BETWEEN APRIL 22 AND MAY 6, 2011 AS PART OF THE NORTHEAST LIDAR PROJECT. THIS DATA'S POSITIONAL ACCURACY AND RELIABILITY HAS NOT BEEN VERIFIED BY DIPRETE ENGINEERING AND IS SUBJECT TO CHANGES AN AUTHORITY FIELD SURVEY MAY DISCLOSE.
10. WETLAND LOCATIONS SHOWN BASED ON FIELD SURVEY BY DIPRETE ENGINEERING. WETLAND FLAGS WERE DELINEATED BY DIPRETE ENGINEERING ON MAY 11, 2023 AND JULY 20, 2023.

UTILITY NOTES

1. ALL EXISTING UTILITIES DEPICTED ARE SHOWN ACCORDANCE WITH UTILITY QUALITY LEVEL C AS DEFINED IN CIVASCE STANDARD 38-02 (STANDARD GUIDELINES FOR THE COLLECTION AND DEPICTION OF EXISTING SUBSURFACE UTILITY DATA), LATEST REVISION.
2. ALL EXISTING UNDERGROUND UTILITIES SHOWN WERE PROVIDED BY OTHERS AND ARE APPROXIMATE ONLY. LOCATIONS MUST BE DETERMINED IN THE FIELD BEFORE EXCAVATION, BLASTING, UTILITY INSTALLATION, BACKFILLING, GRADING, PAVEMENT RESTORATION, AND ALL OTHER SITE WORK. ALL UTILITY COMPANIES, PUBLIC AND PRIVATE, MUST BE CONTACTED INCLUDING THOSE IN CONTROL OF UTILITIES NOT SHOWN ON THESE DOCUMENTS. CONTACT DIG SAFE AT A MINIMUM OF 72 WORKING HOURS PRIOR TO ANY CONSTRUCTION AT 811. DIG SAFE IS RESPONSIBLE FOR CONTACTING MEMBER UTILITY COMPANIES. DIG SAFE MEMBER UTILITY COMPANIES ARE RESPONSIBLE TO MARK ONLY THE FACILITIES THAT THEY OWN OR MAINTAIN. NON DIG SAFE MEMBER COMPANIES ARE NOT NOTIFIED BY DIG SAFE. IT IS THE CONTRACTOR'S RESPONSIBILITY TO INVESTIGATE AND NOTIFY IF ANY PRIVATELY OWNED OR NON DIG SAFE MEMBER UTILITIES ARE IN THE AREA.
3. PER THE CODE OF FEDERAL REGULATIONS - TITLE 29, PART 1926 IT IS THE SITE CONTRACTOR'S RESPONSIBILITY TO OBTAIN ACCURATE UNDERGROUND UTILITY LINE LOCATIONS FROM THE UTILITY COMPANIES, UTILITY OWNERS AND, OR VIA UNDERGROUND UTILITY LOCATION EQUIPMENT AS NEEDED TO ESTABLISH ACCURATE LOCATIONS PRIOR TO ANY EXCAVATION. THE USE OF PROFESSIONAL UTILITY LOCATING COMPANIES PRIOR TO ANY EXCAVATION IS RECOMMENDED.
4. DIPRETE ENGINEERING IS NOT A PROFESSIONAL UTILITY LOCATION COMPANY, AND IS NOT RESPONSIBLE FOR UNDERGROUND UTILITIES, DEPICTED OR NOT, EITHER IN SERVICE OR ABANDONED. ANY SIZES, LOCATIONS, EXISTENCE, OR LACK OF EXISTENCE OF UTILITIES SHOWN ON THESE PLANS SHOULD BE CONSIDERED APPROXIMATE UNTIL VERIFIED BY A PROFESSIONAL UTILITY LOCATION COMPANY. DIPRETE ENGINEERING ASSUMES NO RESPONSIBILITY FOR DAMAGES INCURRED.
5. UTILITY PLAN REFERENCES
 - 5.1. WATER INFORMATION OBTAINED FROM PROVIDENCE WATER GIS DATABASE.
 - 5.2. SEWER INFORMATION OBTAINED FROM ON THE GROUND BY DIPRETE ENGINEERING. (SEE GENERAL NOTES FOR DATE OF FIELD SURVEY)
 - 5.3. GAS INFORMATION OBTAINED FROM NATIONAL GRID GIS DATABASE.
 - 5.4. DRAINAGE INFORMATION OBTAINED ON THE GROUND BY DIPRETE ENGINEERING. (SEE GENERAL NOTES FOR DATE OF FIELD SURVEY)

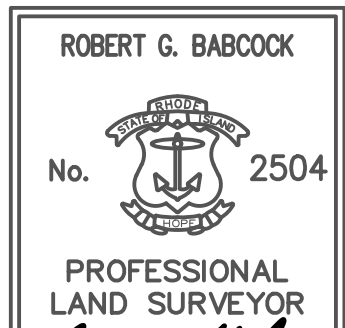
SURVEYOR'S CERTIFICATE

THIS SURVEY HAS BEEN CONDUCTED AND THE PLAN HAS BEEN PREPARED PURSUANT TO 435-RICR-00-001-9 OF THE RULES AND REGULATIONS ADOPTED BY THE RHODE ISLAND STATE BOARD OF REGISTRATION FOR PROFESSIONAL LAND SURVEYORS ON NOVEMBER 25, 2015, AS FOLLOWS:

- | | |
|--|-----------|
| • COMPILED PLAN (NOT A BOUNDARY SURVEY) | CLASS IV |
| • DATA ACCUMULATION SURVEY (PLANIMETRIC) | CLASS III |
| • TOPOGRAPHIC SURVEY | CLASS T-2 |
| • TOPOGRAPHIC SURVEY | CLASS T-4 |

THIS COMPILED PLAN HAS BEEN PREPARED FROM SOURCES OF INFORMATION AND DATA WHOSE POSITIONAL ACCURACY AND RELIABILITY HAS NOT BEEN VERIFIED. THE PROPERTY LINES DEPICTED HEREON DO NOT REPRESENT A BOUNDARY OPINION, AND OTHER INFORMATION DEPICTED IS SUBJECT TO SUCH CHANGES AS AN AUTHORITY FIELD SURVEY MAY DISCLOSE.

THE PURPOSE FOR THE CONDUCT OF THE SURVEY AND FOR THE PREPARATION OF THE PLAN IS AS FOLLOWS: COMPILED PLAN WITH TOPOGRAPHY FOR SITE ENGINEERING AND PERMITTING.



08/22/2023

ROBERT G. BABCOCK, RIPLS #2504, COA #LS.000A160

EXISTING CONDITIONS PLAN

MEMORIAL AVENUE PARK
ASSESSORS PLAT 53 & LOTS 24, 25, 71 & 72
JOHNSTON, RHODE ISLAND

PREPARED FOR
TOWN OF JOHNSTON
1385 HARTFORD AVENUE, JOHNSTON, RHODE ISLAND 02919

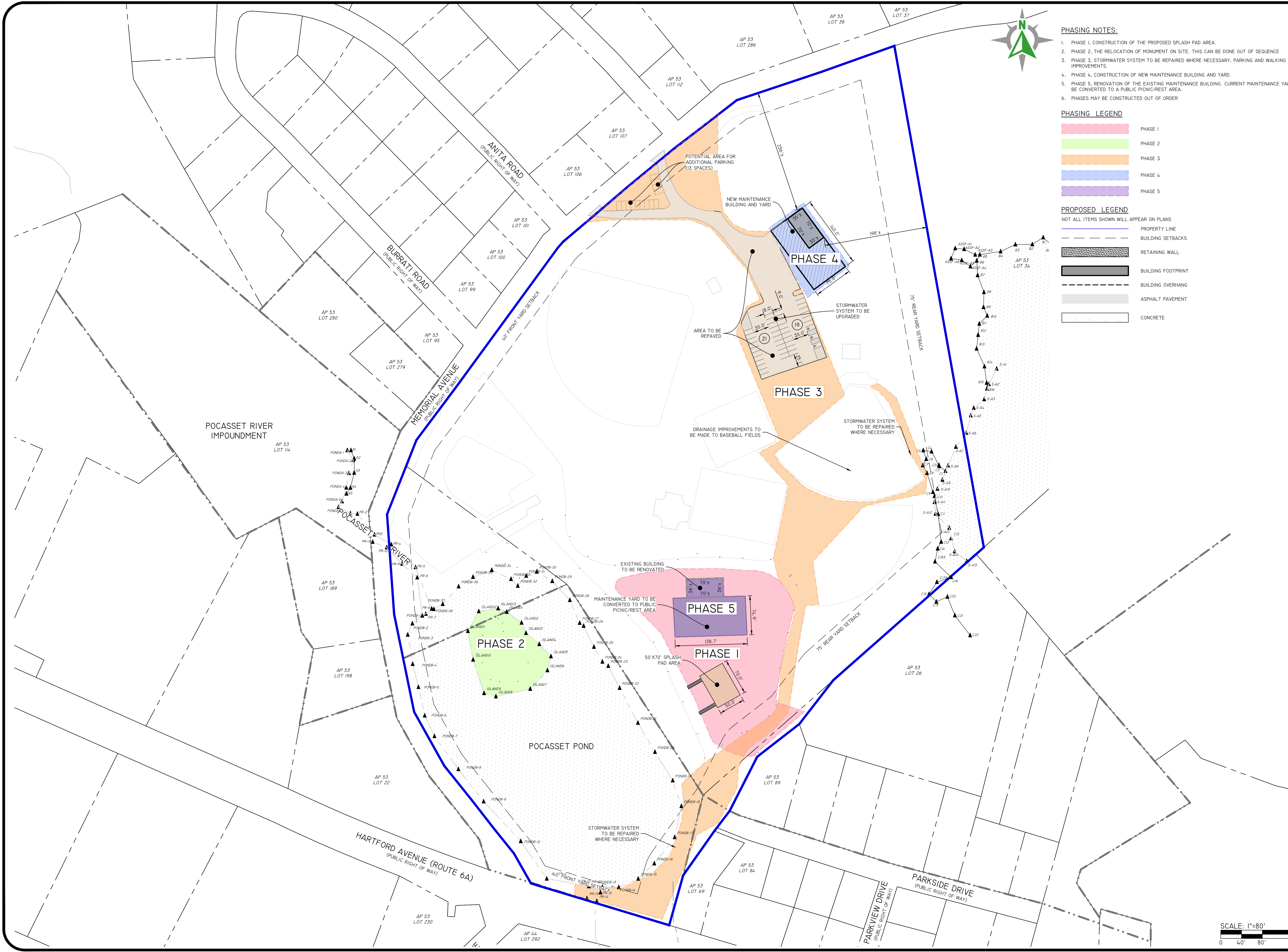
DE JOB NO. 1982-008 COPYRIGHT 2023 BY DIPRETE ENGINEERING ASSOCIATES, INC.

SHEET 5 OF 11

Diprete Engineering

Two Stafford Court Cranston, RI 02920
tel 401-943-1000 fax 401-464-6006 www.diprete-eng.com

Boston • Providence • Newport



PHASING NOTES:

1. PHASE 1, CONSTRUCTION OF THE PROPOSED SPLASH PAD AREA.
2. PHASE 2, THE RELOCATION OF MONUMENT ON SITE. THIS CAN BE DONE OUT OF SEQUENCE
3. PHASE 3, STORMWATER SYSTEM TO BE REPAIRED WHERE NECESSARY. PARKING AND WALKING PATH IMPROVEMENTS.
4. PHASE 4, CONSTRUCTION OF NEW MAINTENANCE BUILDING AND YARD.
5. PHASE 5, RENOVATION OF THE EXISTING MAINTENANCE BUILDING. CURRENT MAINTENANCE YARD TO BE CONVERTED TO A PUBLIC PICNIC/REST AREA.
6. PHASES MAY BE CONSTRUCTED OUT OF ORDER

PHASING LEGEND

- PHASE 1
- PHASE 2
- PHASE 3
- PHASE 4
- PHASE 5

PROPOSED LEGEND

- NOT ALL ITEMS SHOWN WILL APPEAR ON PLANS
- PROPERTY LINE
 - BUILDING SETBACKS
 - RETAINING WALL
 - BUILDING FOOTPRINT
 - BUILDING OVERHANG
 - ASPHALT PAVEMENT
 - CONCRETE

SITE PHASING PLAN

JOHNSTON MEMORIAL PARK
ASSESSOR'S PLAT 53 LOTS 24, 25, 71, 72
JOHNSTON, RHODE ISLAND

PREPARED FOR:
TOWN OF JOHNSTON
1385 HARTFORD AVENUE, JOHNSTON, RHODE ISLAND 02919
TEL 401-531-6666

THIS PLAN SET MUST NOT BE USED FOR CONSTRUCTION PURPOSES
UNLESS IT IS FIRST REVIEWED AND APPROVED BY
A REGISTERED PROFESSIONAL ENGINEER OF RHODE ISLAND
ENGINEERING.

DIPRETE ENGINEERING ONLY WARRANTS PLANS ON A DIPRETE
PROFESSIONAL ENGINEER OF DIPRETE ENGINEERING. DIPRETE
ENGINEERING ASSUMES NO RESPONSIBILITY FOR ANY OTHER PARTY.
THE CLIENT ASSUMES RESPONSIBILITY FOR ANY OTHER PARTY.
THE CLIENT ASSUMES RESPONSIBILITY FOR ANY OTHER PARTY.
METHODS, SAFETY, PRECAUTIONS AND REQUIREMENTS, AND OTHER
DESIGN INFORMATION IN THE IMPLEMENTATION OF THIS PLAN AND
DESIGN.

EXISTING UTILITIES SHOWN ON THIS PLAN ARE APPROXIMATE
ONLY. DIPRETE ENGINEERING ASSUMES NO RESPONSIBILITY FOR
THE LOCATION, DEPTH, OR CHARACTER OF ANY UTILITIES. SEE
SEE UTILITY MAPS ON SHEET 3.

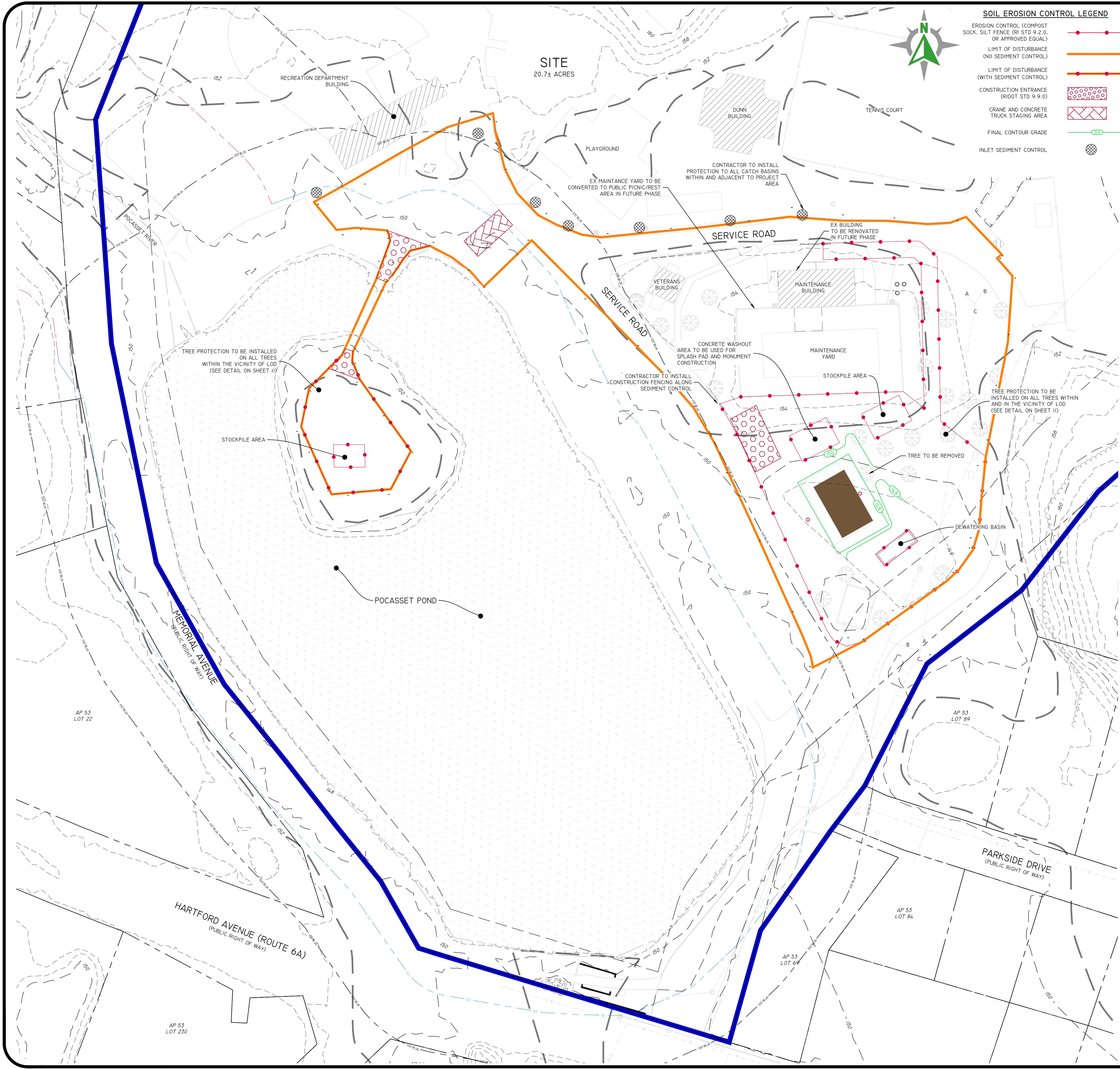
BRIAN P. THALMANN
No. 14100
REGISTERED PROFESSIONAL ENGINEER
CIVIL

Diprete Engineering

Two Stafford Court Cranston, RI 02920
tel 401-943-1000 fax 401-464-6006 www.diprete-eng.com

Boston • Providence • Newport

Z:\DESHAM\PROJECTS\1982-008 MEMORIAL AVENUE PARK\AUTOCAD DRAWINGS\1982-008-PLAN.DWG PLOT# 11/15/2023



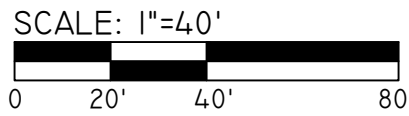
SOIL EROSION CONTROL LEGEND

- EROSION CONTROL (COMPOST SOCK, SILT FENCE (RI STD 9.2.0, OR APPROVED EQUAL))
- LIMIT OF DISTURBANCE (NO SEDIMENT CONTROL)
- LIMIT OF DISTURBANCE (WITH SEDIMENT CONTROL)
- CONSTRUCTION ENTRANCE (RIDOT STD 9.9.0)
- CRANE AND CONCRETE TRUCK STAGING AREA
- FINAL CONTOUR GRADE
- INLET SEDIMENT CONTROL

SOIL EROSION CONTROL IMPLEMENTATION PHASING

- PHASE IA - INSTALL EROSION CONTROL SILT FENCE & STONE CONSTRUCTION ENTRANCE.
- PHASE IB - INSTALL TEMPORARY SEDIMENTATION TRAP. CONSTRUCT CLEAN WATER DIVERSIONS
- PHASE IC - CONSTRUCT PROPOSED DIVERSIONS
- PHASE IIA - CLEAR AND GRUB IMPERVIOUS AREAS. CONSTRUCT PROPOSED BUILDING & INSTALL UTILITIES WITH ROADWAYS. INSTALL DRAINAGE NETWORK WORKING FROM THE DOWN GRADIENT BASINS UP TO THE START OF NETWORK. INSTALL ASPHALT PAVING.
- PHASE IIB - STABILIZE ALL DISTURBED AREAS, DE-CONSTRUCT DIVERSIONS AND TEMPORARY SEDIMENTATION TRAPS.

- NOTE
- SOIL EROSION CONTROL IMPLEMENTATION PHASING SHOULD NOT BE MISCONSTRUED WITH CONSTRUCTION PHASING/ SEQUENCING. ALL MEASURES DEPICTED ON THIS PLAN ARE TO BE INSTALLED WITH THE FIRST PHASE OF CONSTRUCTION.
 - TRENCHES TO BE BACKFILLED AT THE END OF EACH WORK DAY.



SOIL EROSION AND SEDIMENT CONTROL PLAN

JOHNSTON MEMORIAL PARK
ASSESSOR'S PLAT 53 LOTS 24, 25, 71, 72

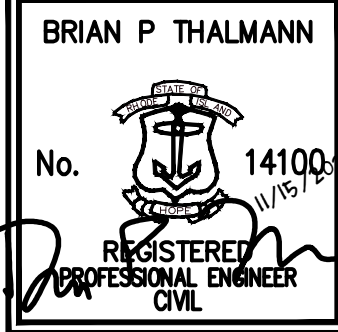
JOHNSTON, RHODE ISLAND

PREPARED FOR:
TOWN OF JOHNSTON
1385 HARTFORD AVENUE, JOHNSTON, RHODE ISLAND 02919
TEL 401-531-6616

THIS PLAN SET MUST NOT BE USED FOR CONSTRUCTION PURPOSES UNLESS IT IS ACCOMPANIED BY A REGISTERED PROFESSIONAL ENGINEER OF RHODE ISLAND.

DIPRETE ENGINEERING ONLY WARRANTS PLANS ON A DIPRETE PROFESSIONAL ENGINEER OF DIPRETE ENGINEERING. DIPRETE PROFESSIONAL ENGINEERING ASSUMES NO RESPONSIBILITY FOR THE CONSTRUCTION OF THE PROJECT OR THE QUALITY OF THE CONSTRUCTION. THE CLIENT ASSUMES RESPONSIBILITY FOR THE DESIGN, METHODS, SAFETY, PRECAUTIONS AND REQUIREMENTS, AND OSHA COMPLIANCE IN THE IMPLEMENTATION OF THIS PLAN AND DESIGN.

EXISTING UTILITIES SHOWN ON THIS PLAN ARE APPROXIMATE. ONLY DIPRETE ENGINEERING ASSUMES NO RESPONSIBILITY FOR THE LOCATION, DEPTH, OR TYPE OF UTILITIES. SEE UTILITY MAPS FOR EXISTING UTILITIES.



DiPrete Engineering

Two Stafford Court Cranston, RI 02920
tel 401-943-1000 fax 401-464-6006 www.diprete-eng.com

Boston • Providence • Newport



DEVELOPMENT DATA:

TOTAL SITE AREA: 27.5± ACRES
TOTAL NUMBER OF BUILDINGS: 7 (EX)

DIMENSIONAL REGULATIONS:

CURRENT ZONING:	R-40 REQUIRED	PROVIDED
MINIMUM LOT AREA:	N/A	N/A
MINIMUM FRONTAGE AND LOT WIDTH:	140	277'± ON HARTFORD 2,150'± ON MEMORIAL
MINIMUM FRONT YARD:	40	236'±
MINIMUM SIDE YARD:	35'	N/A
MINIMUM REAR YARD:	75'	198'±
MAXIMUM STRUCTURE HEIGHT:	35'	UNKNOWN
MAXIMUM LOT COVERAGE:	15%	30%

PARKING REGULATIONS:

PARKING USE:	OTHER
PARKING REQUIREMENT:	4 SPACES PER 1,000 SF (GFA)
BUILDING SQUARE FOOTAGE (GFA):	13,800± SF
REQUIRED PARKING CALCULATIONS:	13,800 X 4/1000 = 52 SPACES
TOTAL PARKING SPACES PROVIDED:	120+ SPACE

GENERAL NOTES:

- THE SITE IS TO BE SERVICED BY PUBLIC WATER AND PUBLIC SEWER.
- EXISTING RIGHTS OF WAY, PATHS, AND PARKING AREAS ARE OF VARIABLE WIDTH.

PROPOSED LEGEND

NOT ALL ITEMS SHOWN WILL APPEAR ON PLANS

	PROPERTY LINE
	BUILDING SETBACKS
	RETAINING WALL
	BUILDING FOOTPRINT
	BUILDING OVERHANG
	ASPHALT PAVEMENT
	CONCRETE

SITE LAYOUT PLAN

JOHNSTON MEMORIAL PARK

ASSESSOR'S PLAT 53 LOTS 24, 25, 71, 72

JOHNSTON, RHODE ISLAND

PREPARED FOR:

TOWN OF JOHNSTON

1385 HARTFORD AVENUE, JOHNSTON, RHODE ISLAND 02919

TEL 401-531-6666

THIS PLAN SET MUST NOT BE USED FOR CONSTRUCTION PURPOSES WITHOUT THE WRITTEN CONSENT OF THE REGISTERED PROFESSIONAL ENGINEER OF DIPRETE ENGINEERING.

DIPRETE ENGINEERING ONLY WARRANTS PLANS ON A DIPRETE

PROFESSIONAL ENGINEER OF DIPRETE ENGINEERING. DIPRETE

ENGINEERING ASSURES NO RESPONSIBILITY FOR THE ACCURACY

OF THE INFORMATION SHOWN ON THESE PLANS OR FOR ANY PARTY.

THE CLIENT ASSUMES RESPONSIBILITY FOR THE ACCURACY OF THE

INFORMATION SHOWN ON THESE PLANS AND FOR THE DESIGN, CONSTRUCTION, AND

PERFORMANCE IN THE IMPLEMENTATION OF THIS PLAN AND DESIGN.

EXISTING UTILITIES SHOWN ON THIS PLAN ARE APPROXIMATE

ONLY. DIPRETE ENGINEERING ASSUMES NO RESPONSIBILITY FOR

THE ACCURACY OF THE INFORMATION SHOWN ON THESE PLANS. SEE "UTILITY NOTE" ON SHEET 3.



DiPrete Engineering

Two Stafford Court Cranston, RI 02920

tel 401-943-1000 fax 401-464-6006 www.diprete-eng.com

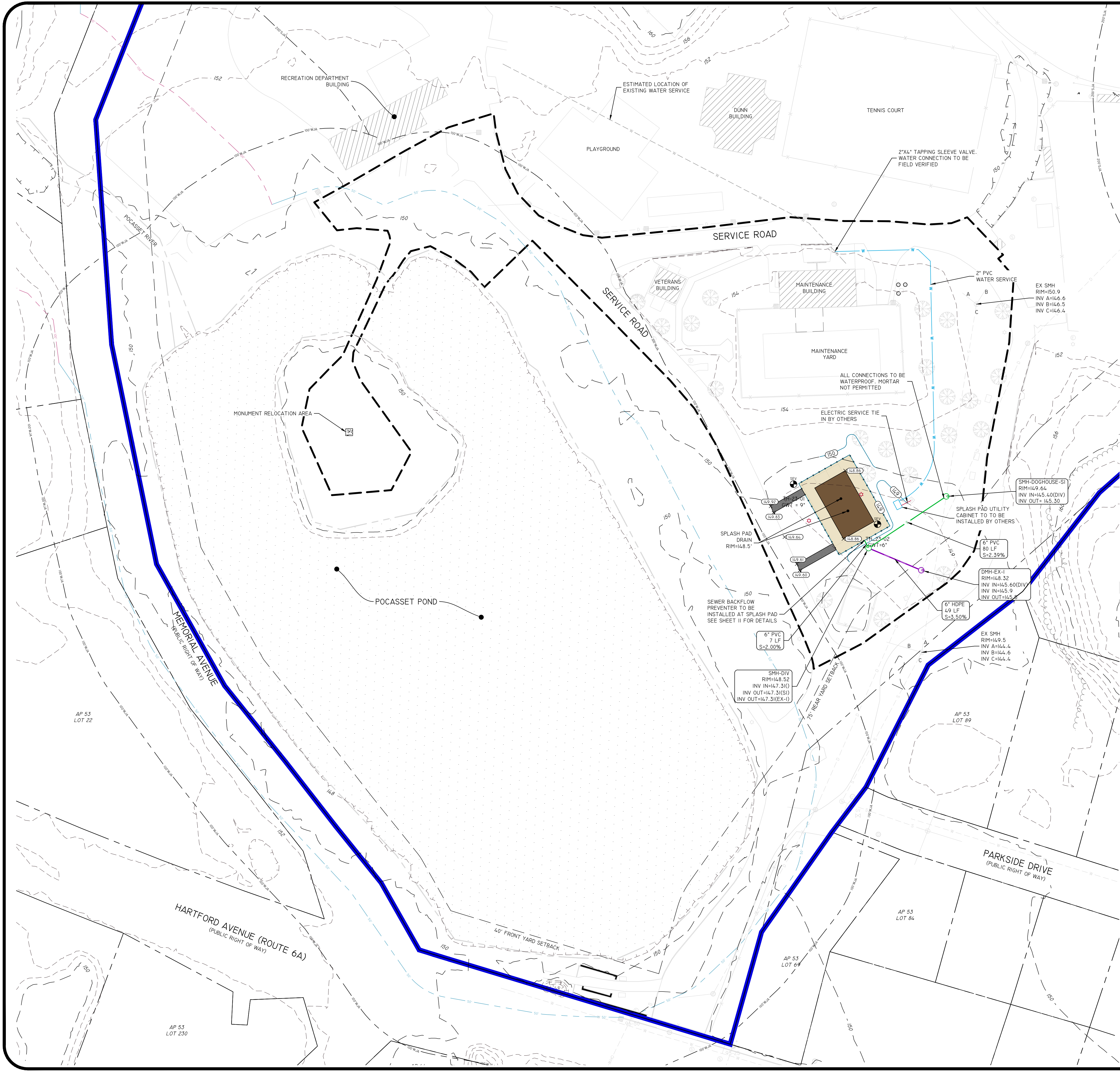
Boston • Providence • Newport

SHEET

8

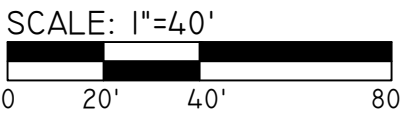
OF 11

Z:\DESHAIN\PROJECTS\1982-008 MEMORIAL AVENUE PARK\AUTOCAD DRAWINGS\1982-008-PLAN.DWG PLOT# 11/15/2023



GENERAL NOTES:

1. TRENCHES TO BE BACKFILLED AT THE END OF EACH WORK DAY
2. ANTI-SEEPAGE COLLARS TO BE PLACED AT THE MID-POINT OF THE PROPOSED DRAINAGE LINE AND AT EACH THIRD POINT OF THE PROPOSED SEWAGE LINE
3. ALL JOINTS AND CONNECTIONS TO MANHOLES SHALL BE WATER TIGHT BOOTS AND CONNECTIONS. MORTAR JOINTS ARE NOT PERMITTED



GRADING AND UTILITIES PLAN

JOHNSTON MEMORIAL PARK

ASSESSOR'S PLAT 53 LOTS 24, 25, 71, 72

JOHNSTON, RHODE ISLAND

PREPARED FOR:

TOWN OF JOHNSTON

1385 HARTFORD AVENUE, JOHNSTON, RHODE ISLAND 02919

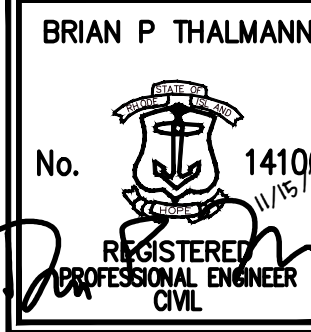
TEL 401-531-6666

BE JOB NO. 1982-008 COPYRIGHT 2023 BY DIPRETE ENGINEERING ASSOCIATES, INC.

THIS PLAN SET MUST NOT BE USED FOR CONSTRUCTION PURPOSES UNLESS IT IS FIRST REVIEWED AND APPROVED BY A REGISTERED PROFESSIONAL ENGINEER OF DIPRETE ENGINEERING.

DIPRETE ENGINEERING ONLY WARRANTS PLANS ON A DIPRETE PROFESSIONAL ENGINEER OF DIPRETE ENGINEERING. DIPRETE ASSUMES NO RESPONSIBILITY FOR THE ACCURACY OF THE PLANS OR THE CONSTRUCTION OF THE PROJECT. THE CLIENT ASSUMES RESPONSIBILITY FOR THE ACCURACY OF THE PLANS AND THE CONSTRUCTION OF THE PROJECT. DIPRETE ENGINEERING ASSOCIATES, INC. IS NOT RESPONSIBLE FOR THE DESIGN, CONSTRUCTION, OR PERFORMANCE OF THE PROJECT.

EXISTING UTILITIES SHOWN ON THIS PLAN ARE APPROXIMATE. ONLY DIPRETE ENGINEERING ASSOCIATES, INC. IS RESPONSIBLE FOR THE ACCURACY OF THE UTILITIES SHOWN ON THIS PLAN. SEE UTILITY MAP ON SHEET 3.

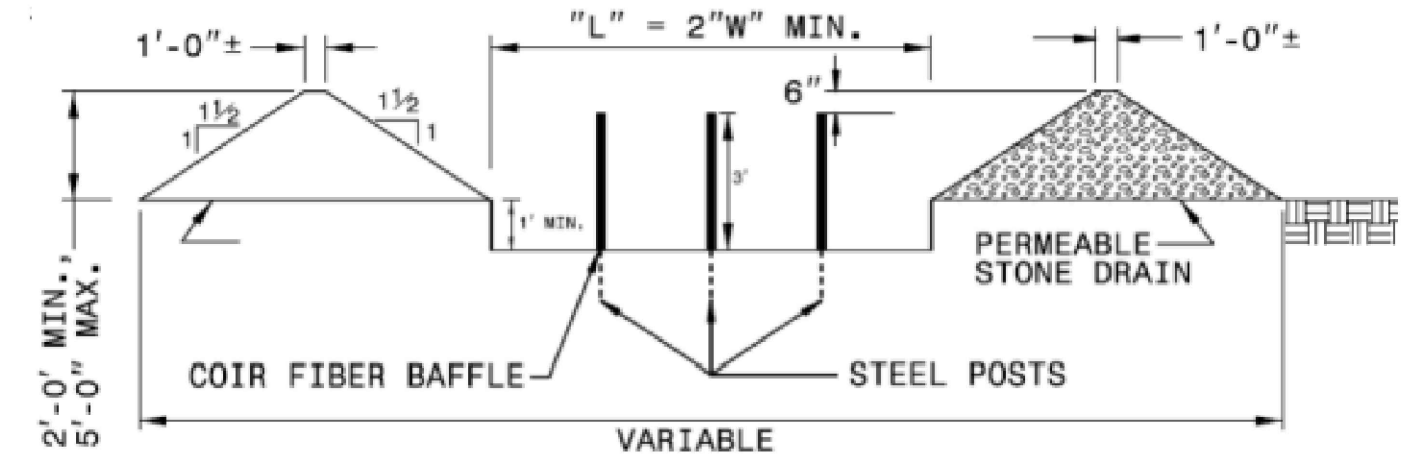


Diprete Engineering

Two Stafford Court Cranston, RI 02920
tel 401-943-1000 fax 401-464-6006 www.diprete-eng.com

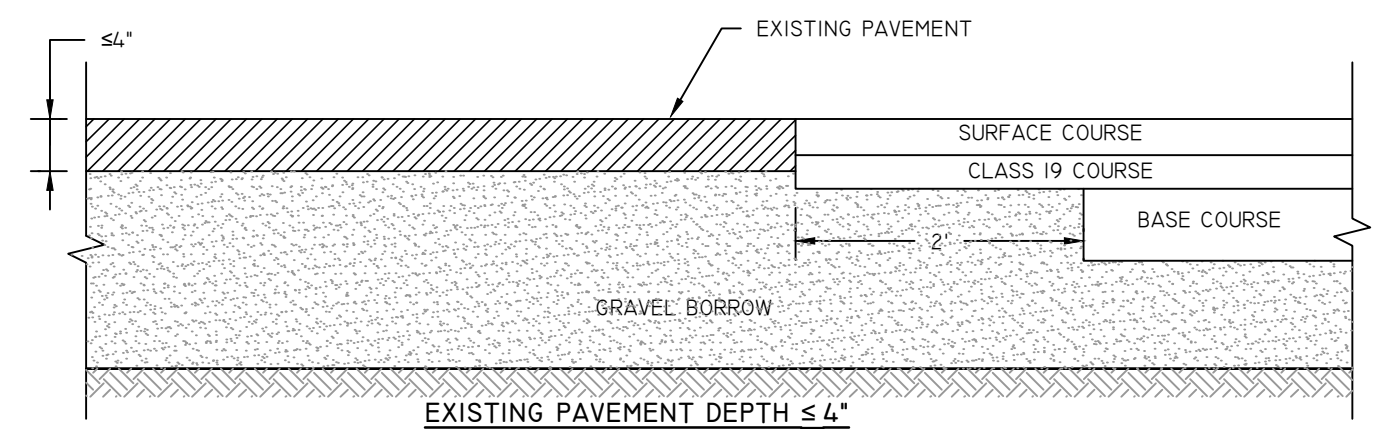
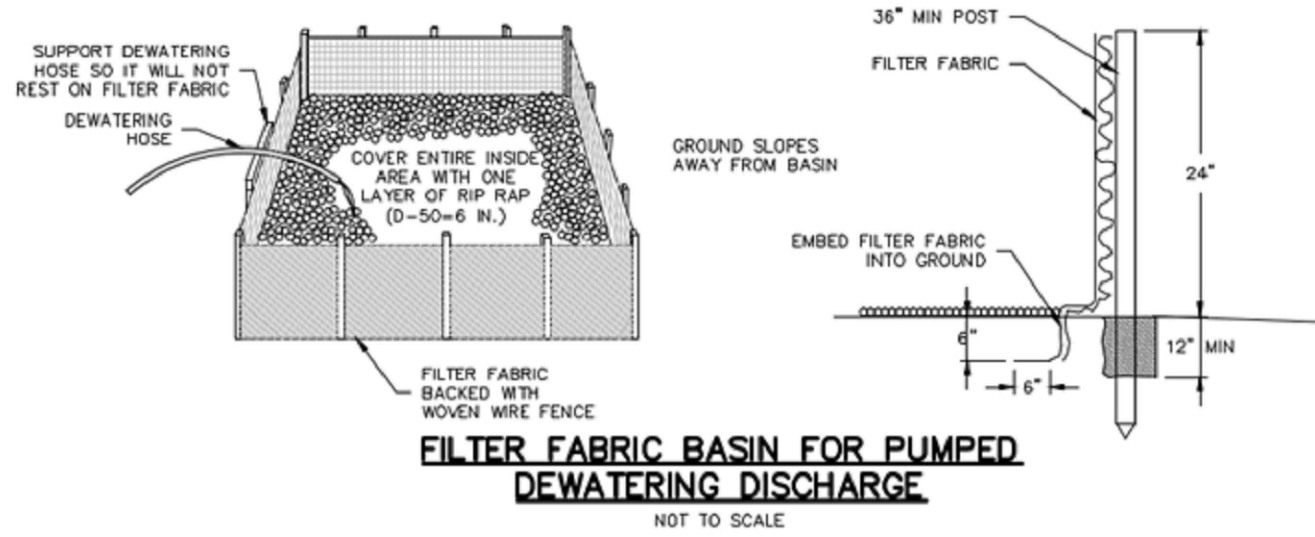
Boston • Providence • Newport

(Credit: NC DOT)



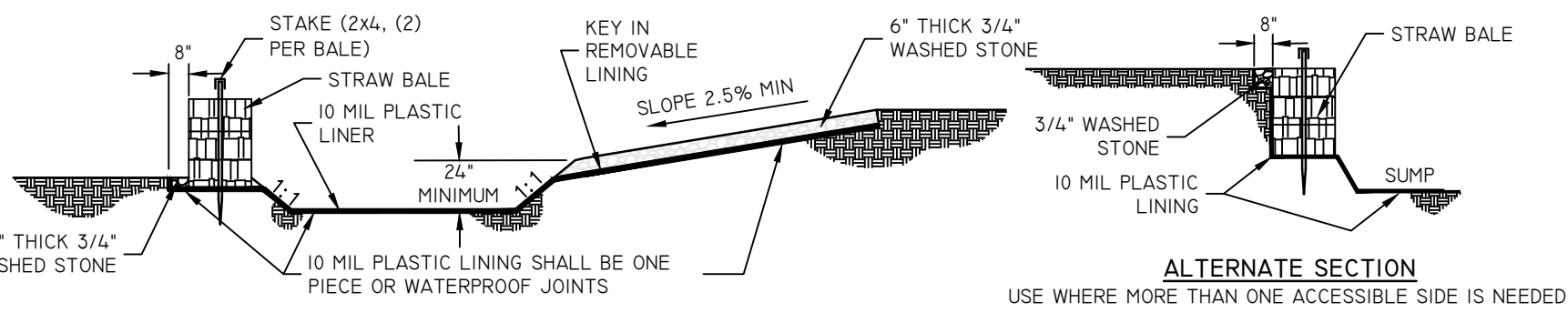
NOTES:

1. THE BASIN STORAGE VOLUME SHOULD NOT BE LESS THAN THE TOTAL VOLUME OF WATER THAT COULD BE PUMPED DURING A 4-HOUR PERIOD.
2. FILTER FABRIC BASINS SHOULD BE CONSTRUCTED ON NEARLY LEVEL GROUND.
3. THE AREA AROUND THE FILTER FABRIC BASIN MUST BE STABILIZED TO PREVENT EROSION BY WATER EXITING THE BASIN.
4. THE SEDIMENT WHEN ACCUMULATION REACHES ONE-HALF THE ORIGINAL HEIGHT OF THE FILTER FABRIC.
5. THE CONTRACTOR IS RESPONSIBLE FOR MAINTAINING THE STRUCTURE IN PROPER WORKING CONDITIONS AS LONG AS IT IS IN PLACE.
6. FILTER FABRIC BASINS AND ACCUMULATED SEDIMENT MUST BE REMOVED WHEN THE BASIN'S USEFUL LIFE HAS BEEN COMPLETED. THE AREA COVERED BY THE BASIN SHALL BE SEEDED AND MULCHED IMMEDIATELY AFTER THE BASIN IS REMOVED.



NOT TO SCALE

NOTE:
A BOND BREAKER (TAPERED OR EQUIVALENT) WILL BE PLACED 5'-0" FROM THE JOINT AND COVERED WITH THE CLASS 19 COURSE AS THE TEMPORARY RAMP. PRIOR TO PLACING THE SURFACE COURSE, THE CLASS 19 COURSE, AND BOND BREAKER WILL BE REMOVED.



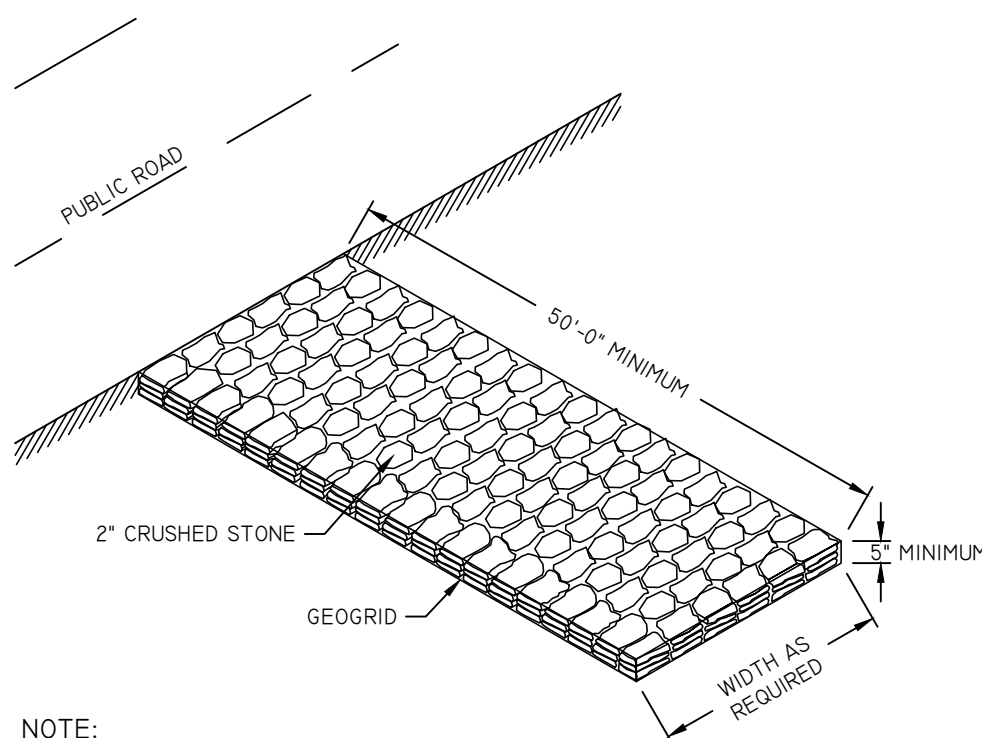
SECTION A-A

NOTES:

1. PIT IS SPECIFICALLY DESIGNATED, DIKED AND IMPERVIOUS CONTAINMENT TO PREVENT CONTACT BETWEEN CONCRETE WASH AND STORMWATER.
2. WASH WATER SHALL NOT BE ALLOWED TO FLOW TO SURFACE WATER.
3. FACILITY MUST HOLD SUFFICIENT VOLUME TO CONTAIN CONCRETE WASTE WITH A MINIMUM FREEBOARD OF 12."
4. FACILITY SHALL NOT BE FILLED BEYOND 95% CAPACITY UNLESS A NEW FACILITY IS CONSTRUCTED.
5. SAWCUT PORTLAND CEMENT CONCRETE, RESIDUE FROM SAWCUT AND GRINDING TO BE DISPOSED OF IN THE PIT.
6. CONCRETE WASHOUTS SHALL BE LOCATED A MINIMUM OF 100' FROM DRAINAGE WAYS, INLETS, AND SURFACE WATERS.
7. MANUFACTURED CONCRETE WASHOUT DEVICES MAY BE USED IF REMOVED FROM THE SITE WHEN 95% FULL CAPACITY.

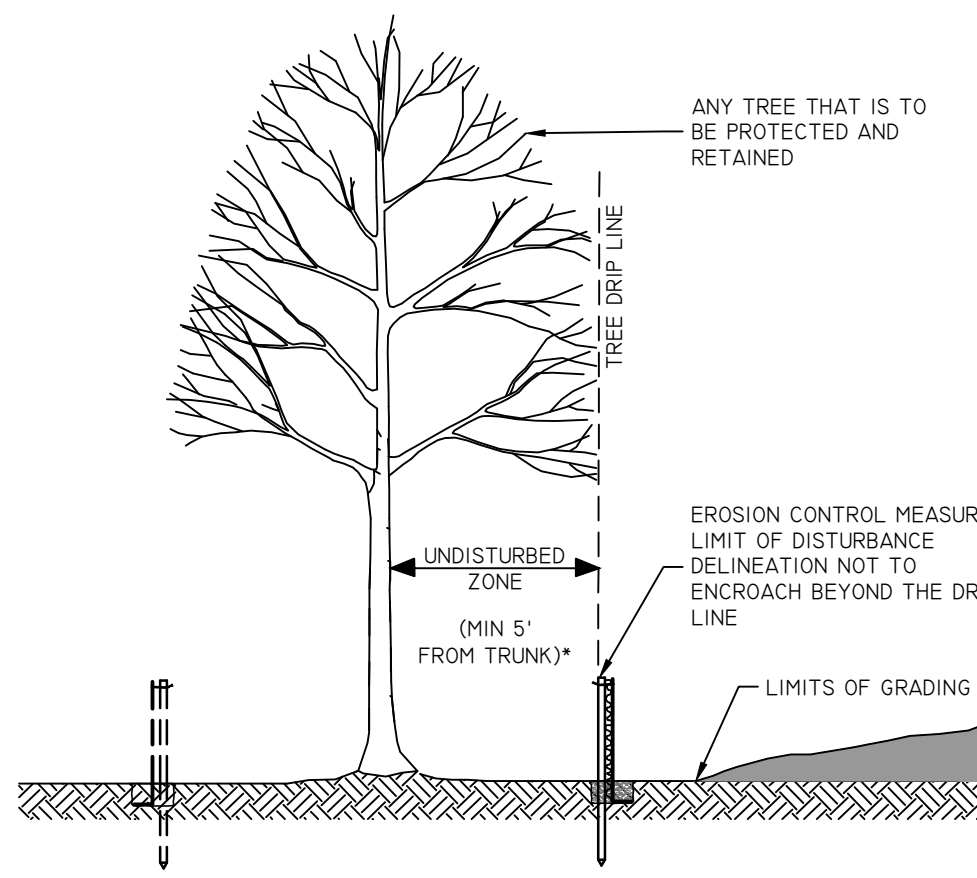
ALL CONCRETE
TRUCKS SHALL
WASHOUT HERE

NOT TO SCALE



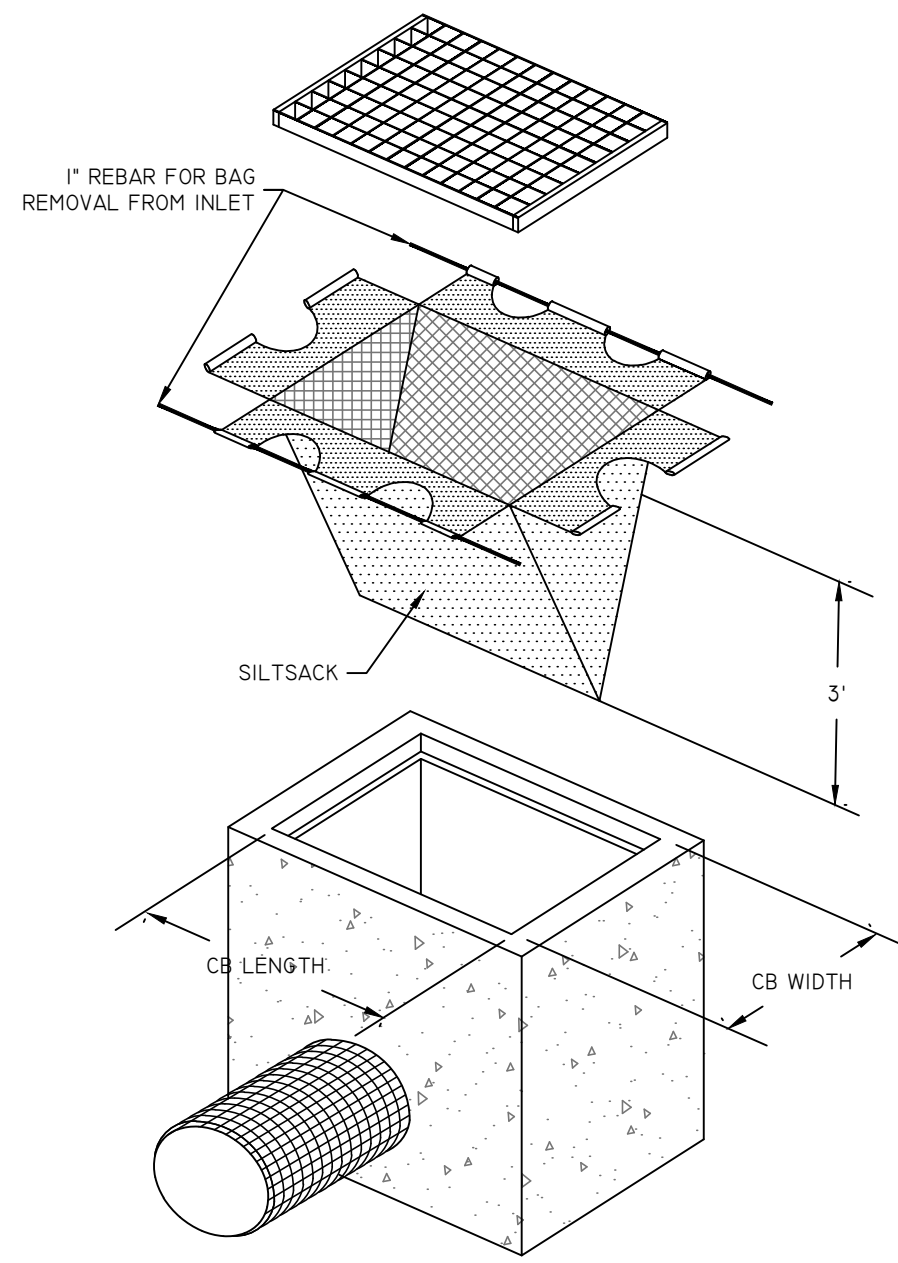
NOTE:
SHALL BE IN ACCORDANCE WITH SECTION 21
OF THE R.I. STANDARD SPECIFICATIONS.

NOT TO SCALE

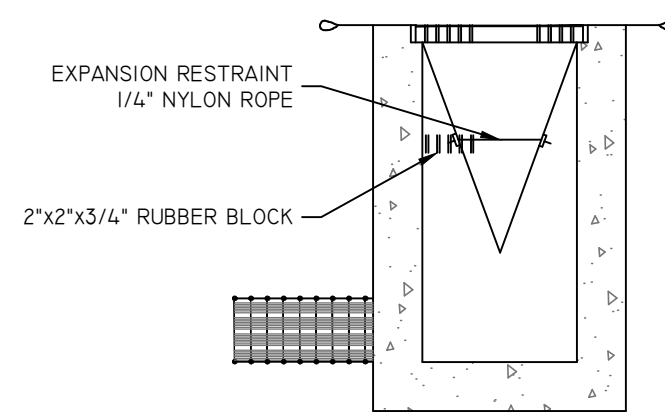


*LIMIT OF DISTURBANCE IS AT THE DRIP LINE OF OUTERMOST BRANCH OR 5' FROM TRUNK WHICHEVER IS GREATER.

NOT TO SCALE



NOTE:
REGULAR FLOW=66 GAL./MIN/SF
HIGH FLOW=100.6 GAL./MIN/SF



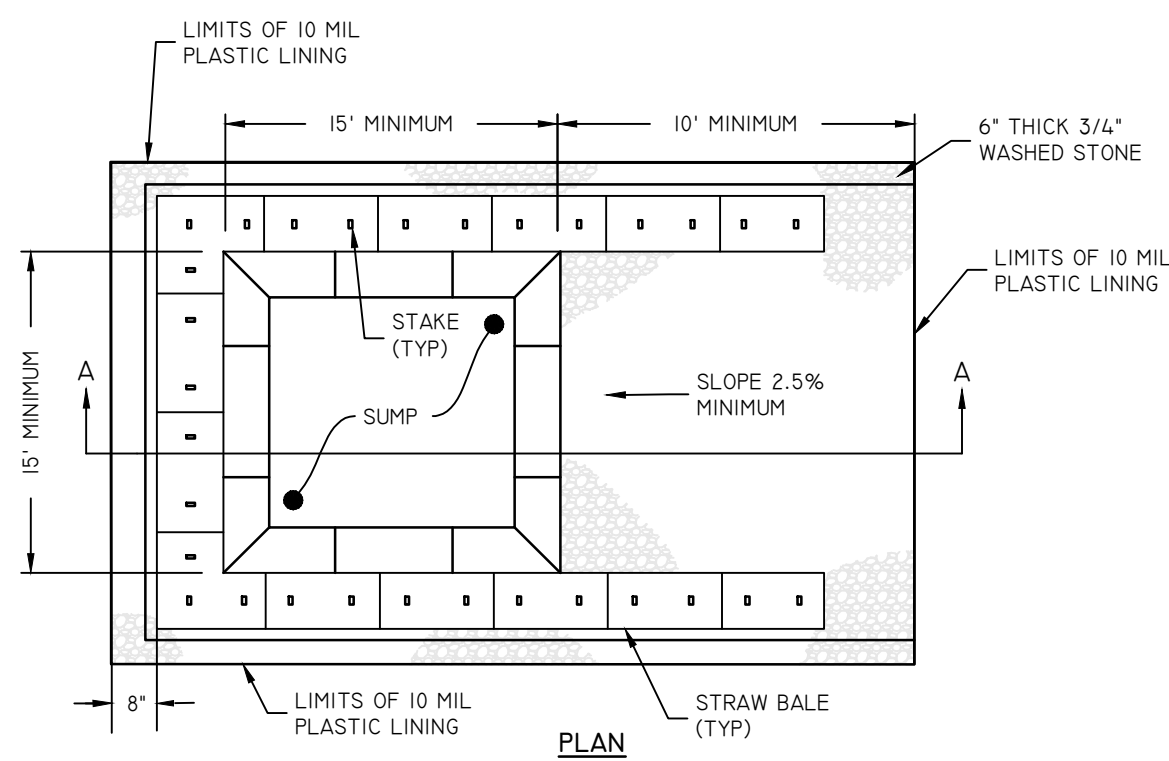
NOT TO SCALE

A cross-sectional diagram of a stockpile. The stockpile is a trapezoidal shape with a flat top and sloped sides. A line points to the top surface with the label "STOCKPILE". A line points to the right sloped side with the label "2 (MAX) 1", indicating a maximum slope of 2 horizontal units to 1 vertical unit. To the left of the stockpile, a vertical line represents a "SILT FENCE TO EXTEND AROUND ENTIRE PERIMETER OF STOCKPILE". To the right, a vertical line is labeled "10' TYP", indicating a typical distance. The ground is represented by a hatched pattern at the base.

NOT TO SCALE

NOTES:

1. ALL STOCKPILES MUST BE INSTALLED AND MAINTAINED IN ACCORDANCE WITH SECTION 3 'STOCKPILE AND STAGING AREA MANAGEMENT' OF THE RHODE ISLAND SOIL EROSION AND SEDIMENT CONTROL BEST MANAGEMENT PRACTICES MANUAL.
2. DIVERT ALL STORMWATER AWAY FROM STOCKPILES.
3. SOIL STOCKPILES THAT ARE NOT TO BE USED WITHIN 30 DAYS MUST BE SEEDED AND MULCHED TO PREVENT EROSION. SEEDING SHALL BE DONE WITH SEED MIX COMPATIBLE WITH THE SOIL TYPE.
4. STOCKPILE AND SOIL FENCE MUST BE INSPECTED AT LEAST ONCE PER WEEK AND AFTER RAIN EVENTS IN EXCESS OF "X" OF RAINFALL. REPAIR/ REPLACE SOIL FENCE (AND STOCKPILE COVERS WHERE APPLICABLE) AS NEEDED TO KEEP THEM FUNCTIONING ADEQUATELY.
5. STOCKPILES THAT ARE NOT TO BE USED MUST BE REMOVED AND PROPERLY DISPOSED OF WHENEVER SIGNIFICANT ACCUMULATION OCCURS.



PLAN

CROSS SECTION VIEW

NOT TO SCALE

NOT TO SCALE

NOTES:

1. EROSION CONTROL BARRIER TO BE INSTALLED PER MANUFACTURER RECOMMENDATIONS AND SPECIFICATIONS
2. FOR SOFT SOILS, DIG A 3 TO 5 INCH TRENCH. FOR HARD SOILS, DIG A 2 TO 3 INCH TRENCH.
3. INSTALL WOOD STAKES FOR EVERY 4' (MAX) OF STRAW TATTLE, AS WELL AS ADDITIONAL WOOD STAKE ON EACH END OF EACH STRAW TATTLE.
4. MINIMUM WOOD STAKE DIMENSIONS TO BE 1"x2"x24" (SOFT SOIL) AND 1"x2"x18" (HARD SOIL).

THIS PLAN SET MUST NOT BE USED FOR CONSTRUCTION PURPOSES
UNLESS STAMPED 'ISSUED FOR CONSTRUCTION' AND STAMPED BY
REGISTERED PROFESSIONAL ENGINEER OF DIBRETE

THE CONTRACTOR IS RESPONSIBLE FOR ALL OF THE MEANS, METHODS, MATERIALS, EQUIPMENT, PERSONNEL, AND SUPERVISION IN THE IMPLEMENTATION OF THIS PLAN AND DESIGN.

0	II-15-2023	PHASE I AND PHASE 2 PLAN	L.B.III
NO.	DATE	DESCRIPTION	BY:
DRAWN BY: V P		DESIGN BY: I R III	

DETAIL SHEET - 1

JOHNSTON MEMORIAL PARK
ASSESSOR'S PLAT 53 LOTS 24, 25, 71, 72

PREPARED FOR:
TOWN OF JOHNSTON
385 HARTFORD AVENUE, JOHNSTON, RHODE ISLAND 02919
TEL: 401.351.6410


DE JOB NO: 1982-008 COPYRIGHT 2023 BY DIPRETE ENGINEERING ASSOCIATES, INC.

DiPrete Engineering

Two Stafford Court Cranston, RI 02920
tel 401-943-1000 fax 401-464-6006

Boston • Providence • Newport

BRIAN P THALMANN

No.  1410
11/15

**REGISTERED
PROFESSIONAL ENGINEER
CIVIL**

SHEET 0 OF 1

Z:\DEMAIN\PROJECTS\1982-008 MEMORIAL AVENUE PARK\AUTOCAD DRAWINGS\1982-008-PLAN.DWG PLOTTED: 11/15/2023



- NOT TO SCALE



- NOT TO SCALE

NOT TO SCALE

- CAUTION:**
EXCESSIVE COMPACTION OR DOWNWARD PRESSURE ON
FRAME WILL CAUSE RUBBER TO STRETCH AND DISTORT,
RESULTING IN LOSS OF SEAL BETWEEN RUBBER AND PIPE



	APPROVED BY	IGMAN BY	DATE
CADD	B.C.G.	B.D.C.	05-08
ENG	S.X.X.	X.S.X.	MM-YY



- NOT TO SCALE



- NOT TO SCALE



- ### B. SEWERS CROSSING WATER MAINS

- WATER LINES ARE DEFINED AS ANY CONDUITS OR PIPELINES THAT CONVEY POTABLE WATER.

DETAIL SHEET- 2

JOHNSTON MEMORIAL PARK
ASSESSOR'S PLAT 53 LOTS 24, 25, 71, 72

PREPARED FOR:
TOWN OF JOHNSTON
1385 HARTFORD AVENUE, JOHNSTON, RHODE ISLAND 02919
TEL 401-351-6618


DE JOB NO: 1982-008 COPYRIGHT 2023 BY DIPRETE ENGINEERING ASSOCIATES, INC.

DiPrete Engineering

Two Stafford Court Cranston, RI 02920
tel 401-943-1000 fax 401-464-6006 www.diprete-eng.com

Boston • Providence • Newport

BRIAN P THALMANN

No.  1410
11/15

**REGISTERED
PROFESSIONAL ENGINEER
CIVIL**

THIS PLAN SET MUST NOT BE USED FOR CONSTRUCTION PURPOSES
UNLESS STAMPED 'ISSUED FOR CONSTRUCTION' AND STAMPED BY
A REGISTERED PROFESSIONAL ENGINEER OF DIPRETE

ENGINEERING. THE CONTRACTOR IS RESPONSIBLE FOR ALL OF THE MEANS, METHODS, SAFETY PRECAUTIONS AND REQUIREMENTS, AND OSHA COMPLIANCE, IN THE IMPLEMENTATION OF THIS PLAN AND SIGN.

II-15-2023	PHASE I AND PHASE 2 PLAN	L.B.III
O. DATE	DESCRIPTION	BY:
DRAWN BY: V P		DESIGN BY: R III

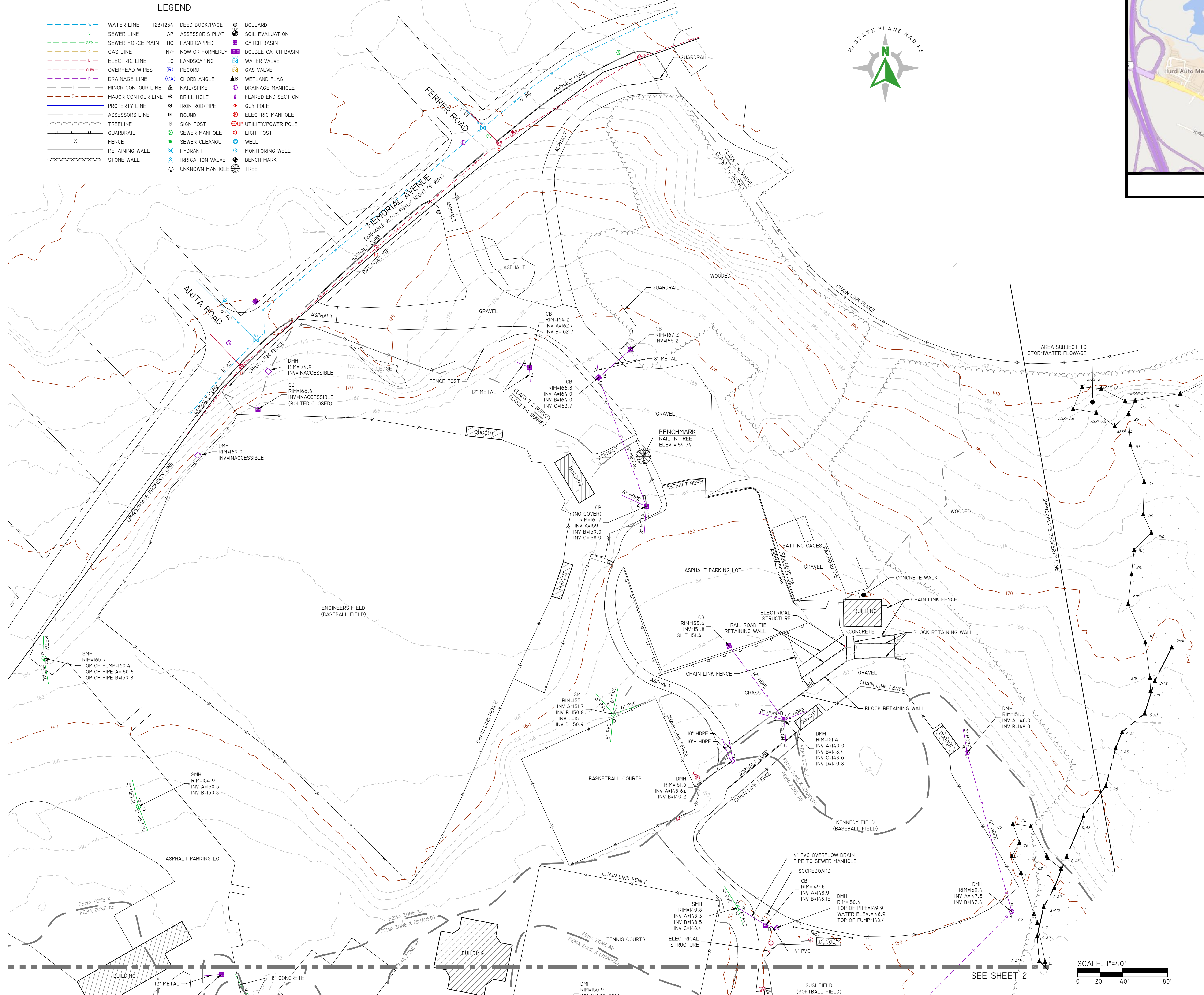
DESIGNED BY: B III	
DRAWN BY: V P	

1385 HARTFORD AVENUE, JOHNS TOWN, RHODE ISLAND 02919
TEL 401-351-6618

DE JOB NO: 1982-008 COPYRIGHT 2023 BY DIPRETE ENGINEERING ASSOCIATES, INC.

SHEET 11 OF 11

2:\proj\031192-008 memorial avenue park\board drawings\192-008\excav.dwg, Plotted 7/17/2023



DiPrete Engineering

Two Stafford Court Cranston, RI 02920
tel 401-943-1000 fax 401-464-6006 www.diprete-eng.com

Boston • Providence • Newport

NO.	DATE	EXISTING CONDITIONS PLAN	
		DESCRIPTION	BY:
1	07/21/23		

EXISTING CONDITIONS PLAN

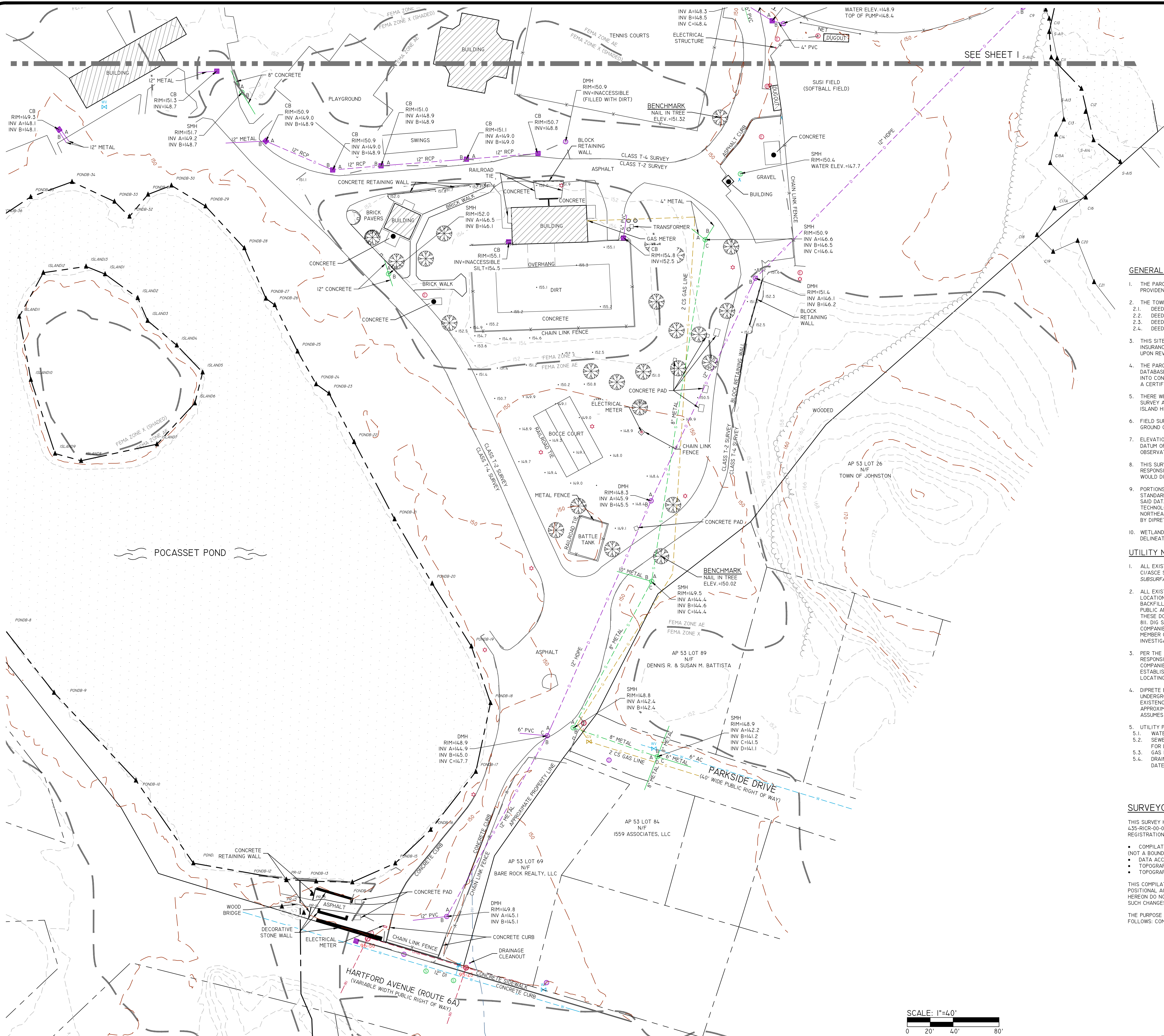
MEMORIAL AVENUE PARK
ASSESSORS PLAT 53 & LOTS 24, 25, 71 & 72
JOHNSTON, RHODE ISLAND

PREPARED FOR
TOWN OF JOHNSTON
1385 HARTFORD AVENUE, JOHNSTON, RHODE ISLAND 02919

DE 428 NO. 192-008 COPYRIGHT 2023 BY FORRESTER ENGINEERING ASSOCIATES, INC.

SHEET 1 OF 2

2:\proj\03\1582-008 memorial avenue park\subarea drawings\1582-008 exclosure plan.dwg 7/21/2023



GENERAL NOTES

1. THE PARCEL IS FOUND ON ASSESSOR'S PLAT 53, LOTS 24, 25, 71 AND 72 IN THE TOWN OF JOHNSTON, PROVIDENCE COUNTY, RHODE ISLAND.
2. THE TOWN OF JOHNSTON IS THE OWNER PER:
 - 2.1. DEED BOOK 64 PAGE 193. (AP 53, LOT 24)
 - 2.2. DEED BOOK 63 PAGE 455. (AP 53, LOT 25)
 - 2.3. DEED BOOK 60 PAGE 107. (AP 53, LOT 71)
 - 2.4. DEED BOOK 64 PAGE III. (AP 53, LOT 72)
3. THIS SITE IS LOCATED IN FEMA FLOOD ZONE X, X (SHADED) AND AE (ELEV. 151-152). REFERENCE FEMA FLOOD INSURANCE RATE MAP 44007C0284H, MAP REVISED OCTOBER 2, 2015. THIS DESIGNATION MAY CHANGE BASED UPON REVIEW BY A FLOOD ZONE SPECIALIST OR BY THE RESULTS OF A COMPREHENSIVE FLOOD STUDY.
4. THE PARCEL IS ZONED RESIDENCE R-40 AND GENERAL BUSINESS B-2 BASED ON THE TOWN OF JOHNSTON GIS DATABASE. ANY OVERLAY DISTRICTS, SPECIAL PERMITS OR VARIANCES SPECIFIC TO THIS SITE ARE NOT TAKEN INTO CONSIDERATION. PLEASE CONTACT THE ZONING DEPARTMENT FOR ANY ADDITIONAL INFORMATION OR FOR A CERTIFICATE OF ZONING.
5. THERE WERE NO CEMETERIES, GRAVE SITES AND OR BURIAL GROUNDS OBSERVED WITHIN THE LIMITS OF THE SURVEY AND THERE ARE NO CEMETERIES, GRAVE SITES AND OR BURIAL GROUNDS SHOWN ON THE RHODE ISLAND HISTORICAL CEMETERIES ONLINE DATABASE.
6. FIELD SURVEY PERFORMED BY DIPRETE ENGINEERING IN JUNE AND JULY, 2023. THIS PLAN REFLECTS ON THE GROUND CONDITIONS AS OF THAT DATE.
7. ELEVATIONS SHOWN HEREON, IN U.S. SURVEY FEET, ARE REFERENCED TO THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD 88), AS DETERMINED BY DIPRETE ENGINEERING USING REAL TIME KINEMATIC G.P.S. OBSERVATIONS.
8. THIS SURVEY WAS PREPARED WITHOUT THE BENEFIT OF A TITLE REPORT. DIPRETE ENGINEERING IS NOT RESPONSIBLE FOR ANY UNKNOWN OR UNRECORDED EASEMENTS, DEEDS OR CLAIMS THAT A TITLE REPORT WOULD DISCLOSE.
9. PORTIONS OF THE CONTOUR DATA SHOWN ON THIS PLAN CONFORMS TO A T-4 TOPOGRAPHICAL SURVEY STANDARD AS ADOPTED BY THE RHODE ISLAND BOARD OF REGISTRATION FOR PROFESSIONAL LAND SURVEYORS. SAID DATA IS BASED ON ELEVATION INFORMATION THAT WAS COLLECTED WITH AIRBORNE LIDAR TECHNOLOGY FOR THE ENTIRE AREA OF RHODE ISLAND BETWEEN APRIL 22 AND MAY 6, 2011 AS PART OF THE NORTHEAST LIDAR PROJECT. THIS DATA'S POSITIONAL ACCURACY AND RELIABILITY HAS NOT BEEN VERIFIED BY DIPRETE ENGINEERING AND IS SUBJECT TO CHANGES AN AUTHORITY FIELD SURVEY MAY DISCLOSE.
10. WETLAND LOCATIONS SHOWN BASED ON FIELD SURVEY BY DIPRETE ENGINEERING. WETLAND FLAGS WERE DELINEATED BY DIPRETE ENGINEERING ON MAY 11, 2023 AND JULY 20, 2023.

UTILITY NOTES

1. ALL EXISTING UTILITIES DEPICTED ARE SHOWN ACCORDANCE WITH UTILITY QUALITY LEVEL C AS DEFINED IN CIVISSE STANDARD 38-02 (STANDARD GUIDELINES FOR THE COLLECTION AND DEPICTION OF EXISTING SUBSURFACE UTILITY DATA), LATEST REVISION.
2. ALL EXISTING UNDERGROUND UTILITIES SHOWN WERE PROVIDED BY OTHERS AND ARE APPROXIMATE ONLY. LOCATIONS MUST BE DETERMINED IN THE FIELD BEFORE EXCAVATION, BLASTING, UTILITY INSTALLATION, BACKFILLING, GRADING, PAVEMENT RESTORATION, AND ALL OTHER SITE WORK. ALL UTILITY COMPANIES, PUBLIC AND PRIVATE, MUST BE CONTACTED INCLUDING THOSE IN CONTROL OF UTILITIES NOT SHOWN ON THESE DOCUMENTS. CONTACT DIG SAFE A MINIMUM OF 72 WORKING HOURS PRIOR TO ANY CONSTRUCTION AT 811. DIG SAFE IS RESPONSIBLE FOR CONTACTING MEMBER UTILITY COMPANIES. DIG SAFE MEMBER UTILITY COMPANIES ARE RESPONSIBLE TO MARK ONLY THE FACILITIES THAT THEY OWN OR MAINTAIN. NON DIG SAFE MEMBER COMPANIES ARE NOT NOTIFIED BY DIG SAFE. IT IS THE CONTRACTOR'S RESPONSIBILITY TO INVESTIGATE AND NOTIFY IF ANY PRIVATELY OWNED OR NON DIG SAFE MEMBER UTILITIES ARE IN THE AREA.
3. PER THE CODE OF FEDERAL REGULATIONS - TITLE 29, PART 1926 IT IS THE SITE CONTRACTOR'S RESPONSIBILITY TO OBTAIN ACCURATE UNDERGROUND UTILITY LINE LOCATIONS FROM THE UTILITY COMPANIES, UTILITY OWNERS AND, OR VIA UNDERGROUND UTILITY LOCATION EQUIPMENT AS NEEDED TO ESTABLISH ACCURATE LOCATIONS PRIOR TO ANY EXCAVATION. THE USE OF PROFESSIONAL UTILITY LOCATING COMPANIES PRIOR TO ANY EXCAVATION IS RECOMMENDED.
4. DIPRETE ENGINEERING IS NOT A PROFESSIONAL UTILITY LOCATION COMPANY, AND IS NOT RESPONSIBLE FOR UNDERGROUND UTILITIES, DEPICTED OR NOT, EITHER IN SERVICE OR ABANDONED. ANY SIZES, LOCATIONS, EXISTENCE, OR LACK OF EXISTENCE OF UTILITIES SHOWN ON THESE PLANS SHOULD BE CONSIDERED APPROXIMATE UNTIL VERIFIED BY A PROFESSIONAL UTILITY LOCATION COMPANY. DIPRETE ENGINEERING ASSUMES NO RESPONSIBILITY FOR DAMAGES INCURRED.
5. UTILITY PLAN REFERENCES
 - 5.1. WATER INFORMATION OBTAINED FROM PROVIDENCE WATER GIS DATABASE.
 - 5.2. SEWER INFORMATION OBTAINED FROM ON THE GROUND BY DIPRETE ENGINEERING. (SEE GENERAL NOTES FOR DATE OF FIELD SURVEY)
 - 5.3. GAS INFORMATION OBTAINED FROM NATIONAL GRID GIS DATABASE.
 - 5.4. DRAINAGE INFORMATION OBTAINED ON THE GROUND BY DIPRETE ENGINEERING. (SEE GENERAL NOTES FOR DATE OF FIELD SURVEY)

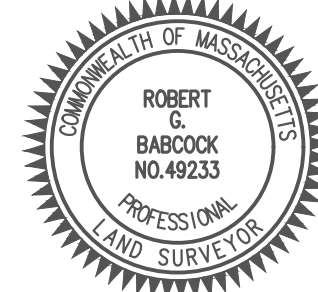
SURVEYOR'S CERTIFICATE

THIS SURVEY HAS BEEN CONDUCTED AND THE PLAN HAS BEEN PREPARED PURSUANT TO 435-RICR-00-001-1.9 OF THE RULES AND REGULATIONS ADOPTED BY THE RHODE ISLAND STATE BOARD OF REGISTRATION FOR PROFESSIONAL LAND SURVEYORS ON NOVEMBER 25, 2015, AS FOLLOWS:

- | | |
|--|-----------|
| • COMPILED PLAN (NOT A BOUNDARY SURVEY) | CLASS IV |
| • DATA ACCUMULATION SURVEY (PLANIMETRIC) | CLASS III |
| • TOPOGRAPHIC SURVEY | CLASS T-2 |
| • TOPOGRAPHIC SURVEY | CLASS T-4 |

THIS COMPILED PLAN HAS BEEN PREPARED FROM SOURCES OF INFORMATION AND DATA WHOSE POSITIONAL ACCURACY AND RELIABILITY HAS NOT BEEN VERIFIED. THE PROPERTY LINES DEPICTED HEREON DO NOT REPRESENT A BOUNDARY OPINION, AND OTHER INFORMATION DEPICTED IS SUBJECT TO SUCH CHANGES AS AN AUTHORITY FIELD SURVEY MAY DISCLOSE.

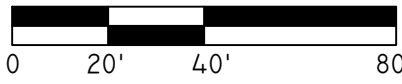
THE PURPOSE FOR THE CONDUCT OF THE SURVEY AND FOR THE PREPARATION OF THE PLAN IS AS FOLLOWS: COMPILED PLAN WITH TOPOGRAPHY FOR SITE ENGINEERING AND PERMITTING.



ROBERT G. BABCOCK, PLS. #49233

07/21/2023

SCALE: 1"=40'



SPLASHPAD DIMENSION

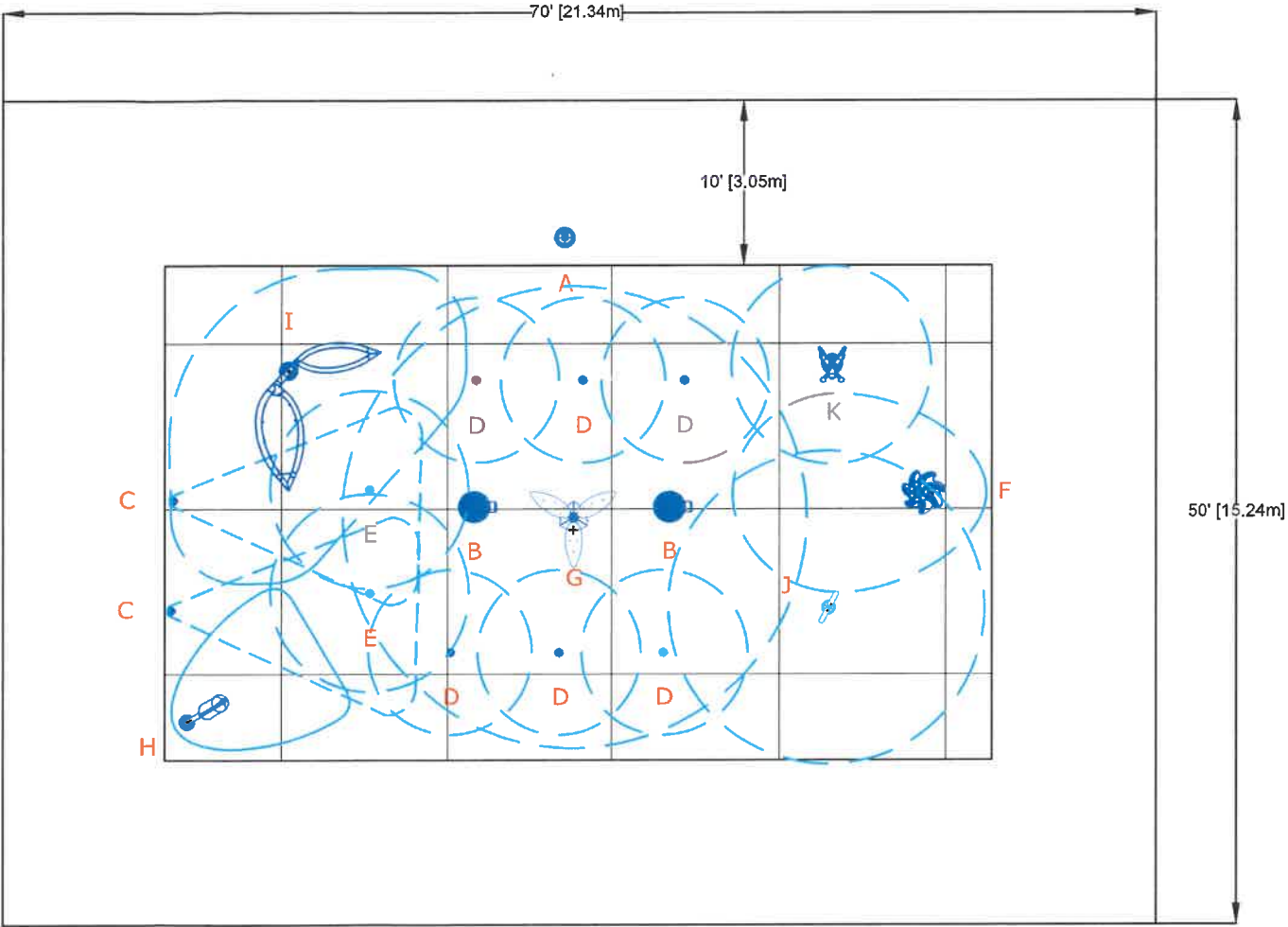
TOTAL AREA : 3500 ft² 325m²

SPRAY AREA : 1500 ft² 139m²

GRID SIZE : 10 x 10 ft 3 x 3m

PRODUCT LEGEND

REF	PRODUCT	QTY	GPM	LPM
A	Activator N°3 VOR 0611	1	0.0	0.0
B	Playsafe Drain N°4 VOR 1004	2		
C	Spraylink Fan VOR 3004	2	14.0	52.9
D	Spraylink Geyser VOR 3005	6	30.0	113.4
E	Spraylink Fountain VOR 3007	2	12.0	45.4
F	Helio N°3 VOR 7238	1	3.0	11.3
G	Bloom N°1 VOR 7486	1	8.5	32.1
H	Cattail VOR 7538	1	4.0	15.1
I	Leaf N°3 VOR 7672	1	10.0	37.8
J	Bamboo Ring VOR 7787	1	2.0	7.6
K	Butterfly N°1 VOR 7792	1	6.5	24.6
TOTAL		19	90	340.2



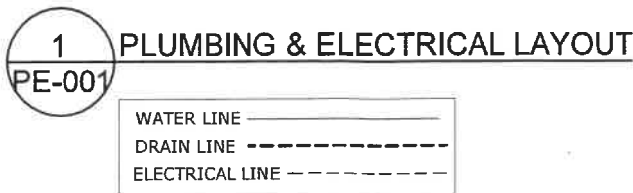
5'[1.5m] SPRAY FREE CONCRETE AREA ALL AROUND THE SPLASHPAD

NOTE: QUANTITY AND LOCATION OF DRAINS BASED ON VORTEX RECOMMENDATIONS.
MODIFICATIONS MAY BE REQUIRED DUE TO SPECIFIC SITE CONDITIONS AND/OR LOCAL CODE.

- 1.1 WDS CONFIGURATION ARE SCHEMATIC AND MAY BE MOVED OR ADJUSTED ON SITE BY VORTEX CERTIFIED INSTALLER TO ADJUST FOR SITE CONDITIONS
- 1.2 ANY REQUIRED WATER METER ON THE CITY WATER MAIN SHALL BE PROVIDED BY INSTALLER. PRESSURE REGULATOR AND BACKFLOW PREVENTER WILL BE PROVIDED BY VORTEX
- 1.3 ALL PIPE LINES TO FEATURES TO HAVE A 1% MINIMUM RECOMMENDED SLOPE FOR PROPER WINTERIZATION.
- 1.4 ALL LINE SIZING (FEATURE CONNECTION TABLE) ASSUMES A MAXIMUM DISTANCE OF 100 FEET BETWEEN THE WATER DISTRIBUTION MANIFOLD AND THE FURTHEST PLAY PRODUCT. DISTANCES ABOVE 100 FEET MAY REQUIRE AN INCREASE IN LINE SIZING. PLEASE CONTACT VORTEX.
- 1.5 QUANTITY AND LOCATION OF DRAINS BASED ON MAXIMUM FLOW FOR THE INDICATED PIPE DIAMETER AT 1% SLOPE. MODIFICATIONS MAY BE REQUIRED DUE TO SPECIFIC SITE CONDITIONS AND LOCAL CODE.

- 1.6 PRESSURE LINES ARE RECOMMENDED TO BE SCHEDULE 80 PVC OR PEX, AND NON-PRESSURE LINES TO BE SCHEDULE 40, UNLESS OTHERWISE REQUESTED BY LOCAL CODE.
- 1.7 DRAINAGE LINES ARE RECOMMENDED TO BE SDR 35, UNLESS OTHERWISE REQUESTED BY LOCAL CODE.
- 1.8 PIPING SHOULD BE INSPECTED AFTER TRANSPORTATION FOR CUTS, SCRATCHES, GOUGES OR SPLITS; DAMAGED SECTIONS MUST BE DISCARDED OR CUT OUT.
- 1.9 PIPE SHALL BE INSTALLED BELOW THE FROST LEVEL NOT LESS THAN 12" (ASTM F-645) UNLESS OTHERWISE REQUESTED BY LOCAL CODE.
- 1.10 PIPE INSTALLATION MINIMUM COVER SHOULD BE EVALUATED ACCORDING TO ASTM D-2774, UNLESS OTHERWISE REQUESTED BY LOCAL CODE.
- 1.11 SPECIAL CONSIDERATIONS SHOULD BE TAKEN FOR THERMAL CONDITIONS, EXPANSION AND CONTRACTIONS DUE TO TEMPERATURE SHOULD BE EVALUATED BEFORE THE INSTALLATION BY THE CONTRACTOR.
- 1.12 VALVE NUMBER 1 IS LOCATED TO THE LEFT OF THE MANIFOLD FACING THE SOLENOID.
- 1.13 MINIMUM 50 PSI REQUIRED AT THE INLET OF THE BACKFLOW PREVENTER AND PRESSURE REGULATING DEVICE.
- 1.14 MAXIMUM FLOW CAPACITY OF MANIFOLD IS 72 GPM.
- 1.15 TOTAL FLOW OF FEATURE IS 90 GPM.
- 1.16 FACTORY MAXIMUM SEQUENCING FLOW IS 50 GPM ACTUAL FLOW MAY VARY DUE TO SITE CONDITIONS.

- 2.1 WIRING FROM THE CONTROLLER TO EACH ACTIVATOR SHALL BE #22 AWG, A TOTAL OF FIVE (5) CONDUCTORS PER ACTIVATOR, CABLE LENGTH UP TO 246' (75m), PROVIDED BY VORTEX.
- 2.2 ALL CONNECTIONS TO THE CONTROLLER AND OTHER VORTEX ELECTRICAL PANEL SHALL BE PERFORMED USING AN APPROVED NEMA 4X CONNECTOR.
- 2.3 WIRE FROM MAIN POWER TO VORTEX PANEL TO BE DETERMINED BY OTHERS RESPECTING THE LOCAL CODE.
- 2.4 MAINTAIN A MINIMUM CLEARANCE ZONE OF 36" IN FRONT OF ELECTRICAL PANEL, UNLESS OTHERWISE REQUESTED BY LOCAL CODE.
- 2.5 USE #8 BARE SOLID COPPER BONDING WIRE BETWEEN FEATURES TO A GROUNDING ROD IN THE SOIL, TIED INTO REBAR GRID, OR AS PER LOCAL CODE. SPRAYLINKS FEATURE DO NOT REQUIRE BONDING.
- 2.6 AS PER ELECTRICAL CONSTRUCTION AND SAFETY CODES: CONTROLLER CONTROLLER AND ANY OTHER ELECTRICAL ENCLOSURES MUST BE HARD-WIRED TO A GROUND FAULT CIRCUIT INTERRUPTER (GFCI) FROM THE INPUT POWER SOURCE.
- 2.7 ALL ELECTRICAL WORK SHOULD BE PERFORMED BY A LICENCE ELECTRICIAN IN ACCORDANCE TO LOCAL ELECTRICAL CONSTRUCTION AND SAFETY CODES.
- 2.8 THE MAESTROPRO CONTROL PANEL IS POWERED THROUGH A MAESTROPRO POWER BOX.
- 2.9 THE POWER CABLE TO MAESTROPRO POWER BOX IS SUPPLIED BY INSTALLER.
- 2.10 THE MAESTROPRO CONTROL PANEL INTEGRATES 24 DIGITAL OUTPUTS WITH 24 VAC AND 12 DIGITAL INPUTS.
- 2.11 FOR REMOTE ACCESS ABILITY, A HARD CONNECTION TO AN EXISTING NETWORK IS REQUIRED USING A CAT 5 CABLE OR A CELLULAR NANO-SIM CARD WITH DATA-PLAN.






SCALE: 1/2"=1'-0"

Feature Connection Table							
Manifold Output Ref.	Solenoid Valve	Feature Ref.	Feature	Qty	Line Size	Gpm	Output (ID1)
S01	1" Std	H	Cattail VOR 7538	1	1"	4	Output-1
S02	1" Std	J	Bamboo Ring VOR 7787	1	1"	2	Output-2
S03	1" Std	F	Helio N°3 VOR 7238	1	1"	3	Output-3
S04	1" Std	D	Spraylink Geyser VOR 3005	3	1 1/2"	15	Output-4
S05	1" Std	C	Spraylink Fan VOR 3004	2	1 1/2"	14	Output-5
S06	1" Std	E	Spraylink Fountain VOR 3007	2	1"	12	Output-6
S07	1" Std	G	Bloom N°1 VOR 7486	1	1"	8.5	Output-7
S08	1" Std	I	Leaf N°3 VOR 7672	1	1"	10.5	Output-8
S09	1" Std	K	Butterfly N°1 VOR 7792	1	1"	6.5	Output-9
S10	1" Std	D	Spraylink Geyser VOR 3005	3	1 1/2"	15	Output-10

Electrical Line Connections Power					
Product Code	From	To	# Conductors	Gauge/ Type	Note
PA	Main Power Line (by Other)	1D2- 120VAC	3	TBD (by Other)	120V, 1 Phase, 60Hz, 10Amps Breaker Recommended ± 5% Voltage Drop is Acceptable

Electrical Line Connections Controller Inputs					
Product Code	From	To	# Conductors	Gauge/Type	Note
EIA	ID1-Input 1	1A	5	22	Activator No.3, 24 VDC, Max 345 mA, 246' (75m) Long Cable (by Vortex)

Product Legend		
Product Ref.	Product	Qty
IA	Activator No.3 VOR 0611	1
IB	Playsafe Drain No4 VOR 1004	2
IC	Water Distribution System; ECCC Cabinet Command Center 2.0 39970D2303R00	1
ID1	MaestroPro Controller 240uk/12h 33907,3200	1
ID2	MaestroPro Power Box 33907,3200	1
IE	2" City Water Line (by Other)	1
IF	6" Drain line To municipal Drain (by Other)	1
IG	4" TYP Drain Line With Strainer Connected to Drainage System, Ensure P-Trap is Below Frost Line to Prevent Freezing. (by Installer)	1
	2" Pressure Regulator (By Vortex)	1
	2" Backflow Preventer (By Vortex)	1
	1" Solenoid Valve with Ball Valve & Union	10

 **VORTEX**

VORTEX USA Inc.
3500 South Dupont Highway, Suite EP-10
Dover, Delaware
United States 19901
Phone: +1 (877) 586-7839

COPYRIGHT VORTEX USA Inc-THIS DOCUMENT AND THE IDEAS, RENDERINGS AND OTHER CONTENTS CONTAINED THEREIN ARE THE SOLE PROPERTY OF VORTEX USA Inc AND MAY NOT BE DISSEMINATED, COPIED, REPRODUCED OR OTHERWISE USED WITHOUT PRIOR WRITTEN CONSENT OF VORTEX USA Inc.

Memorial Park

Project Location
Johnston

Project Number
39970

Version
VB

[illegible]

11/April/2023	Issued for Approval	00	BR
Date	Revision Description	No.	By

Drawing Title

Plumbing & Electrical Layout

Drawn by
BR

Verified by
MAB

Scale
1/4"=1'-0"

Date
11/April/2023

Page #
PE-00:

Abbreviations		Drawing #	Drawing Name	Rev#
PE	Plumbing & Electrical Layout	PE-001	Plumbing & Electrical Layout	00