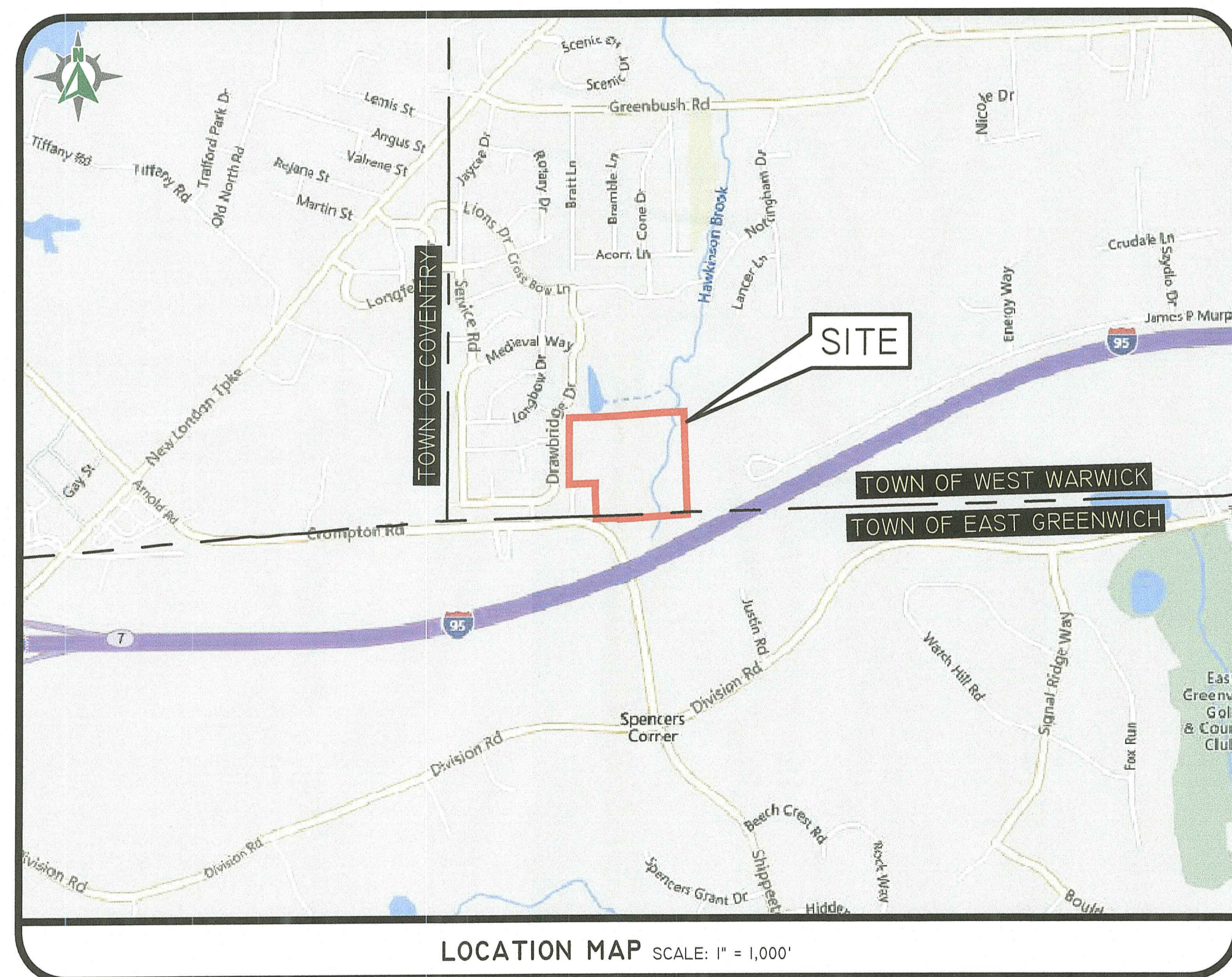


RIDEM WETLANDS SUBMISSION

GREENWICH GLEN CONDOMINIUMS

LOCATED ON CROMPTON ROAD
WEST WARWICK, RHODE ISLAND
ASSESSOR'S PLAT 12 LOTS 130, 133, AND 764



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RI DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM

NOTE PER DEM:
Kindly be advised that this Permit
is not equivalent to a
verification of the type or extent
of freshwater wetlands on site

RI DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM
APPROVED WITH CONDITIONS AS
SPECIFIED IN THE LETTER OF APPROVAL
DATED: MAY 18 2023 FILE #: 22-0115
NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL
APPROVED PLANS MUST BE AT CONSTRUCTION SITE

Daniel L. Freeman

RI Environmental Management
APR 25 2023
Office of Water Resources

PLANNING BOARD APPROVED - WEST WARWICK, RI
CHAIRMAN: _____
DATE: _____

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.

RIDOT
THE PROPOSED IMPROVEMENTS WILL NOT INCREASE THE
RATE OF STORMWATER RUNOFF ONTO THE STATE
HIGHWAY. ALL WORK WITHIN THE STATE RIGHT OF WAY
MUST CONFORM TO THE RI STANDARD SPECIFICATIONS,
DETAILS, AND ADDENDUMS.

DiPrete Engineering

Two Stafford Court Cranston, RI 02920
Tel: 401-945-1000 Fax: 401-464-6006 www.diprete-eng.com

Boston • Providence • Newport

KEVIN DEMERS
Kevin Demers
REGISTERED
PROFESSIONAL ENGINEER
CIVIL

THIS PLAN SET MAY NOT BE REPRODUCED, COPIED, OR TRANSMITTED IN ANY FORM OR BY ANY MEANS, ELECTRONIC OR MECHANICAL, INCLUDING PHOTOCOPYING, RECORDING, OR BY ANY INFORMATION STORAGE AND RETRIEVAL SYSTEM, WITHOUT THE WRITTEN PERMISSION OF DIPRETE ENGINEERING. UNLESS STAMPED FOR CONSTRUCTION AND STAMPED BY AN ENGINEER.
DIPRETE ENGINEERING ONLY WARRANTS PLANS ON A DIPRETE ENGINEERING TITLE BLOCK STAMPED BY REGISTERED PROFESSIONAL ENGINEERS. DIPRETE ENGINEERING DOES NOT WARRANT PLANS BY ANY OTHER PARTY.
THE CONTRACTOR IS RESPONSIBLE FOR ALL OF THE MEANS, METHODS, TECHNIQUES, AND SEQUENCES OF CONSTRUCTION IN THE IMPLEMENTATION OF THIS PLAN AND CONFORMANCE WITH THE PERMITS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM ALL AGENCIES AND AGENCIES INVOLVED IN THE LOCATION OF EXISTING UTILITIES. SEE ALL UTILITIES BEFORE CONSTRUCTION.

NO.	DATE	DESCRIPTION	BY:
1	02-18-2022	DESIGN SUBMISSION	J.A.R.
2	04-21-2023	REVISION COMMENTS	J.A.R.
3	04-21-2023	REVISION COMMENTS	J.A.R.
4	04-21-2023	REVISION COMMENTS	J.A.R.
5	04-21-2023	REVISION COMMENTS	J.A.R.
6	04-21-2023	REVISION COMMENTS	J.A.R.
7	04-21-2023	REVISION COMMENTS	J.A.R.
8	04-21-2023	REVISION COMMENTS	J.A.R.
9	04-21-2023	REVISION COMMENTS	J.A.R.
10	04-21-2023	REVISION COMMENTS	J.A.R.
11	04-21-2023	REVISION COMMENTS	J.A.R.
12	04-21-2023	REVISION COMMENTS	J.A.R.
13	04-21-2023	REVISION COMMENTS	J.A.R.
14	04-21-2023	REVISION COMMENTS	J.A.R.
15	04-21-2023	REVISION COMMENTS	J.A.R.
16	04-21-2023	REVISION COMMENTS	J.A.R.

COVER SHEET
GREENWICH GLEN CONDOMINIUMS
ASSESSOR'S PLAT 12 LOTS 130, 133, AND 764
WEST WARWICK, RHODE ISLAND
PREPARED FOR:
FRANKLIN COMPANIES
P.O. BOX 9402
PROVIDENCE, RHODE ISLAND 02940

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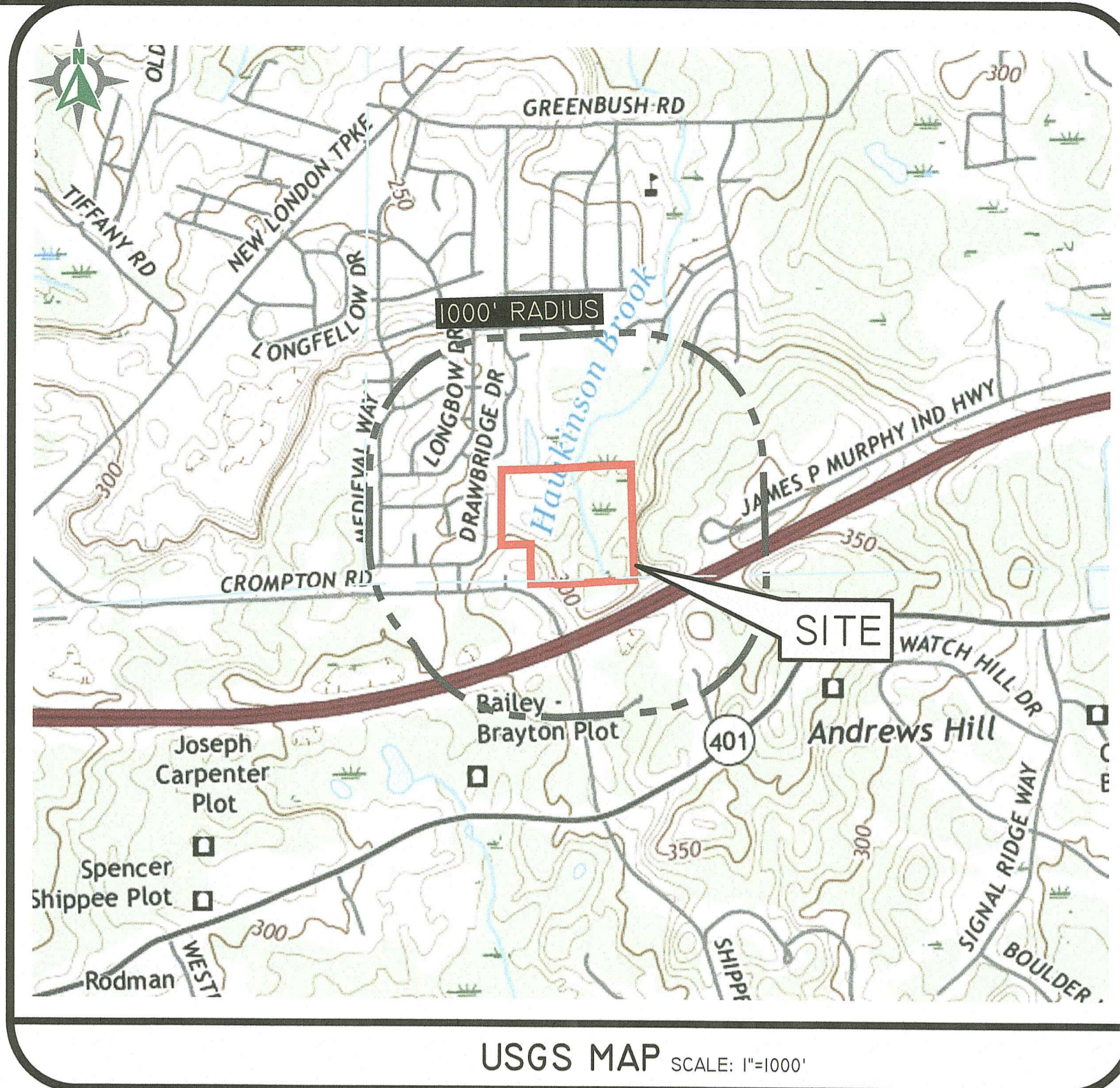


PHOTO OBTAINED FROM NEARMAP.
DATE OF PHOTOGRAPHY: 10-07-2021
SCALE: 1"=300'

RI DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM

NOTE PER DEM:

Kindly be advised that this Permit is not equivalent to a verification of the type or extent of freshwater wetlands on site

RI DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM

APPROVED WITH CONDITIONS AS SPECIFIED IN THE LETTER OF APPROVAL
DATED: MAY 18 2023 FILE #: 22-0115

NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL
APPROVED PLANS MUST BE AT CONSTRUCTION SITE

Nancy L. Freeman

PLANNING BOARD APPROVED - WEST WARWICK, RI

CHAIRMAN: _____
DATE: _____

DiPrete Engineering

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

Boston • Providence • Newport

KEVIN DEMERS

REGISTERED PROFESSIONAL ENGINEER CIVIL

RI Environmental Management

MAY 18 2023

THIS PLANSET MUST NOT BE USED FOR CONSTRUCTION PURPOSES UNLESS SHIPPED ISSUED FOR CONSTRUCTION AND STAMPED BY REGISTERED PROFESSIONAL ENGINEER OF DIPRETE ENGINEERING.

DIPRETE ENGINEERING ONLY WARRANTS PLANS ON A DIPRETE PROFESSIONAL ENGINEER OF DIPRETE ENGINEERING. DIPRETE ENGINEERING DOES NOT WARRANT PLANS BY ANY OTHER PARTY.

FIELD SURVEYING IS REQUIRED FOR ALL PROJECTS TO ENSURE CONFORMANCE IN THE IMPLEMENTATION OF THIS PLAN AND EXISTING UTILITIES SHOWN ON THIS PLAN ARE APPROXIMATE. ONLY A DIPRETE ENGINEER ASSUMES NO RESPONSIBILITY FOR THE ACCURACY OF EXISTING UTILITIES. SEE UTILITY NOTE ON SHEET 3.

NO.	DATE	DESCRIPTION	BY:
1	03-20-2022	PROJECT COMMENTS	J.A.R.
2	03-23-2022	PLANNING SET	J.A.R.
3	03-28-2022	RIEER SUBMISSION	J.A.R.
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AERIAL HALF-MILE & USGS MAP

GREENWICH GLEN CONDOMINIUMS
ASSESSOR'S PLAT 12 LOTS 130, 133, AND 764
WEST WARWICK, RHODE ISLAND

PREPARED FOR:
FRANKLIN COMPANIES
P.O. BOX 9402
PROVIDENCE, RHODE ISLAND 02940

BE 408 80 0076-0404-000001 2023 BY DIPRETE ENGINEERING ASSOCIATES, INC.

GENERAL NOTES:

- 1. THE SITE IS LOCATED ON THE TOWN OF WEST WARWICK ASSESSOR'S PLAT 12, LOTS 130, 133, AND 764.
2. THE SITE IS 18.302 ACRES AND IS ZONED R-10.
3. THE OWNER OF AP 12, LOTS 130, 133, AND 764 IS: FRANKLIN SALES & MARKETING, LLC
4. THIS SITE IS LOCATED IN FEMA FLOOD ZONES X (UNSHADED) AND X (SHADED). REFERENCE FEMA FLOOD INSURANCE RATE MAP 440302017H MAP REVISED OCTOBER 2, 2015. (FLOOD PLAIN DESCRIPTIONS SHOWN BELOW).
5. THE BOUNDARY LINES AS SHOWN ON THE ENGINEERING PLAN SET DEPICTS THE RESULTS OF A CLASS I BOUNDARY RETRACEMENT SURVEY AS PERFORMED BY BOYER ASSOCIATES. THIS PLAN IS NOT TO BE CONSTRUED AS A CLASS I BOUNDARY RETRACEMENT SURVEY PLAN AND IS NOT SUITABLE FOR RECORDING AS A CLASS I STANDARD SURVEY PLAN.
6. CONTOUR DATA SHOWN ON THIS PLAN CONFORMS TO A 1-2 TOPOGRAPHICAL SURVEY STANDARD AS ADOPTED BY THE RHODE ISLAND BOARD OF REGISTRATION FOR PROFESSIONAL LAND SURVEYORS. (SEE CERTIFICATION ON BOYER PLAN).
7. ALL WORK PERFORMED HEREIN IS TO BE GOVERNED BY CURRENT EDITIONS OF THE RHODE ISLAND STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, THE TOWN OF WEST WARWICK 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 DESIGN ENGINEER 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.
8. THE SITE IS WITHIN A: NATURAL HERITAGE AREA (RIDEM)
9. 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:
10. THIS PLAN SET REFERENCES RIDOT STANDARD DETAILS (DESIGNATED AS RIDOT STD X.X.X.X), RIDOT STANDARD DETAILS ARE AVAILABLE FROM RIDOT AND ONLINE AT:
11. THE SITE IS TO BE SERVICED BY PUBLIC WATER AND PUBLIC SEWER.
12. PROPOSED PRIVATE DRIVES ARE TO BE 24' WIDE PAVEMENT (22' TRAVEL LANES AND 1' BERM ON EACH SIDE).
13. THE DRAINAGE SYSTEM IS DESIGNED TO MEET THE TOWN OF WEST WARWICK SUBDIVISION AND LAND DEVELOPMENT REGULATIONS WITH THE USE OF CATCH BASINS, SEDIMENT FOREBAYS, SAND FILTERS, INFILTRATION BASINS, AND DETENTION BASINS. THE STORMWATER MANAGEMENT SYSTEM MEETS THE RIDEM BEST MANAGEMENT PRACTICES.
14. THE SITE IS PROPOSED TO BE BUILT IN MULTIPLE PHASES AND CONDOMINIUM UNITS ARE PROPOSED TO BE 2 BEDROOMS.
15. SOIL EVALUATIONS WERE COMPLETED BY BOYER ASSOCIATES ON 03-31-1987.
16. WETLAND EDGE DELINEATED BY BOYER ASSOCIATES AND SURVEYED BY BOYER ASSOCIATES.
17. ANY PROPRIETARY PRODUCTS REFERENCED IN THIS PLAN SET ARE REPRESENTATIVE OF THE MINIMUM DESIGN REQUIREMENTS FOR THE PURPOSE THEY PROPOSE TO SERVE. ALTERNATIVES TO ANY PROPRIETARY PRODUCT MAY BE SUBMITTED TO THE ENGINEER OF RECORD FOR CONSIDERATION, WHICH MUST BE ACCOMPANIED BY APPROPRIATE SPECIFICATION SHEETS/DESIGN CALCULATIONS THAT DEMONSTRATE THE ALTERNATIVE(S) MEET THE MINIMUM DESIGN PARAMETERS OF THE PRODUCT SHOWN ON THE PLANS. NO ALTERNATIVES MAY BE USED WITHOUT THE WRITTEN APPROVAL OF THE ENGINEER OF RECORD.
18. THIS PLAN SET MAY REFERENCE AND/OR INCLUDE REPRODUCTIONS OF PROPRIETARY PRODUCTS/DETAILS BY OTHERS, AND/OR THEIR ASSOCIATED SPECIFICATIONS. ANY REFERENCED OR REPRODUCED PROPRIETARY PRODUCT OR DETAIL BY OTHERS THAT IS SHOWN ON DIPRETE PLANS IS STRICTLY FOR INFORMATION/SPECIFICATION PURPOSES ONLY. DIPRETE ENGINEERING DOES NOT WARRANT ANY PROPRIETARY PRODUCTS, DETAILS BY OTHERS OR THEIR RESPECTIVE DESIGNS. IF A DIPRETE ENGINEERING PLAN INCLUDES A PROPRIETARY PRODUCT/DETAIL BY OTHERS (EITHER EXPLICITLY OR IMPLIED) AND IS STAMPED BY A REGISTERED PROFESSIONAL ENGINEER AND/OR REGISTERED LANDSCAPE ARCHITECT OF DIPRETE ENGINEERING, SAID STAMP DOES NOT EXTEND TO ANY PORTION OF THE PROPRIETARY PRODUCT/DETAIL BY OTHERS OR ITS DESIGN.

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)

Table with 2 columns: SOIL NAME DESCRIPTION and SOIL NAME DESCRIPTION. Rows include BNC, CHC, MMB, NCC, RF, SWA.

LAYOUT AND MATERIALS:

- 1. DIMENSIONS ARE FROM THE FACE OF CURB, FACE OF BUILDING, FACE OF WALL, AND CENTER LINE OF PAVEMENT MARKINGS, UNLESS OTHERWISE NOTED.
2. CURBING MUST BE BITUMINOUS BERM OR AS LABELED ON THE PLANS.
3. 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.
4. SEE ARCHITECTURAL DRAWINGS FOR EXACT BUILDING DIMENSIONS AND DETAILS PERTAINING TO THE BUILDING, INCLUDING SIDEWALKS, RAMPING, BUILDING ENTRANCES, STAIRWAYS, UTILITY ENCLOSURES, CONCRETE DOOR PADS, COMPACTOR PAD, LOADING DOCKS, BOLLARDS, ETC.
5. PROPOSED BOUNDS AND ANY EXISTING PROPERTY LINE MONUMENTATION DISTURBED DURING CONSTRUCTION MUST BE SET OR RESET BY A PROFESSIONAL LICENSED SURVEYOR.
6. CONTRACTOR MUST NOT RELY SOLELY ON ELECTRONIC VERSIONS OF PLANS, SPECIFICATIONS AND DATA FILES THAT ARE OBTAINED FROM THE DESIGNERS. 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.
7. ALL GUARDRAIL ON-SITE 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 DESIGN ENGINEER IF THEY ARE RIDOT APPROVED EQUAL AND ACCEPTABLE TO THE OWNER. ALTERNATIVES MUST BE APPROVED IN WRITING BY THE OWNER AND DESIGN ENGINEER PRIOR TO CONSTRUCTION.
8. INFRARED TREATMENT OF PAVEMENT IS REQUIRED AT ALL CURB CUTS, AT ANY DISTURBED PAVEMENT ON ROADWAYS, AND WHERE ANY NEW PAVEMENT MEETS EXISTING PAVEMENT.
9. ALL EXISTING PAVEMENT MARKING REMOVED AS INCIDENTAL DURING CONSTRUCTION MUST BE REPLACED IN-KIND FOLLOWING COMPLETION OF CONSTRUCTION UNLESS OTHERWISE NOTED.
10. NEW PAVEMENT MARKING MUST BE FAST DRYING TRAFFIC PAINT, MEETING THE REQUIREMENTS OF AASHTO M248 TYPE F. PAINT MUST BE APPLIED AS SPECIFIED BY THE MANUFACTURER.

SOIL EROSION AND SEDIMENT CONTROL NOTES:

- 1. 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 DESIGN ENGINEER, THE DIRECTOR OF PUBLIC WORKS, THE TOWN ENGINEER, AND RHODE ISLAND DEPARTMENT OF ENVIRONMENTAL MANAGEMENT AT LEAST 48 HOURS PRIOR TO THE START OF CONSTRUCTION.
2. ALL EROSION CONTROL INCLUDING (BUT NOT LIMITED TO) TEMPORARY SWALES, TEMPORARY SEDIMENT TRAPS, 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 DIPRETE ENGINEERING 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 SECS WILL CONTINUE TO EVOLVE THROUGHOUT CONSTRUCTION PHASES. PURSUANT TO NOTE 1 ABOVE, SECS REMAINS THE RESPONSIBILITY OF THE CONTRACTOR UNTIL THE SITE IS FULLY STABILIZED AND/OR SECS RESPONSIBILITIES ARE ASSUMED BY THE OWNER IN WRITING.
3. 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.
4. ONCE THE SEDIMENT TRAPS ARE NO LONGER REQUIRED AND ALL TRIBUTARY AREAS HAVE BEEN STABILIZED, THE TEMPORARY SEDIMENT TRAPS MUST BE CLEARED AND BROUGHT TO FINAL DESIGN GRADES.
5. INLET PROTECTION MUST BE INSTALLED ON ALL CATCH BASINS ONCE CONSTRUCTED.
6. FOR SEQUENCE OF CONSTRUCTION, PROJECT PHASING AND CONSTRUCTION PHASING SEE SECS PLAN.
7. CONTRACTOR MAY MODIFY SEQUENCE OF CONSTRUCTION WITH APPROVAL FROM DESIGN ENGINEER AND OWNER.
8. IF CONCRETE TRUCKS ARE WASHED OUT ON SITE, ALL WASHOUT MUST BE PERFORMED IN THE DESIGNATED CONCRETE WASHOUT AREA.

DEMOLITION NOTES:

- 1. CONTRACTOR MUST OBTAIN ALL FEDERAL, STATE, AND MUNICIPAL APPROVALS PRIOR TO THE START OF CONSTRUCTION.
2. CONTRACTOR MUST PERFORM DAILY SWEEPING AT CONSTRUCTION ENTRANCES DURING DEMOLITION AND CONSTRUCTION TO MINIMIZE SEDIMENTS ON EXTERNAL STREETS.
3. 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.
4. 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.
5. IN ADDITION TO THOSE AREAS SPECIFICALLY DESIGNATED ON THE PLANS, ALL DISTURBED AREAS INCLUDING THE CONTRACTOR STOCKPILE AND STAGING AREAS WITHIN THE LIMIT OF WORK MUST BE RESTORED TO MATCH THE DESIGN PLANS.
6. 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.
7. 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.
8. CONTRACTOR MUST COORDINATE THE CUTTING AND CAPPING OF ALL UTILITIES WITH THE OWNER, THE MUNICIPALITY, AND ALL APPLICABLE UTILITY ENTITIES HAVING JURISDICTION.
9. INACTIVE SUBSURFACE UTILITIES NOT IN CONFLICT WITH THE PROPOSED WORK AREA MAY BE ABANDONED IN PLACE WITH WRITTEN PERMISSION FROM THE OWNER.

TRAFFIC NOTES:

- 1. ALL TRAFFIC CONTROL MUST CONFORM TO THE FEDERAL HIGHWAY ADMINISTRATION (FHWA) MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD) CURRENT EDITION.
2. DURING CONSTRUCTION, TRAFFIC CONES MUST BE USED FOR SEPARATION OF ACTIVE TRAFFIC FROM WORK ZONE PER MUTCD REQUIREMENTS.
3. DURING CONSTRUCTION FLAGMANS MUST BE EMPLOYED TO ENSURE SAFETY FOR INTERACTION OF CONSTRUCTION VEHICLES AND ACTIVE TRAFFIC.
4. ALL SIGNS, FLAGMANS, TRAFFIC CONTROL DEVICES, AND TEMPORARY TRAFFIC ZONE ACTIVITIES MUST MEET THE REQUIREMENTS OF THE MUTCD LATEST EDITION AND SUBSEQUENT ADDENDA.
5. TEMPORARY CONSTRUCTION SIGNS MUST BE MOUNTED ON RIDOT APPROVED SUPPORTS AND MUST BE REMOVED OR COVERED WHEN NOT APPLICABLE.

AS-BUILT NOTES:

ALL COMPONENTS OF THE DRAINAGE, SEWER, AND WATER SYSTEMS MUST BE FIELD LOCATED PRIOR TO COVERING. NOTIFY 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 WILL NOT ACCEPT FIELD MEASUREMENTS FROM THE SITE CONTRACTOR.

RIDOT NOTES:

- 1. ALL WORK TO BE DONE WITHIN THE STATE RIGHT OF WAY MUST CONFORM TO RHODE ISLAND STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION AMENDED MARCH 2018 WITH ALL REVISIONS AND ADDENDA. STANDARD DETAILS FOR THIS WORK ARE RHODE ISLAND STANDARD DETAILS DATED JUNE 21, 2019 WITH ALL REVISIONS.
2. CONTRACTOR MUST OBTAIN A UTILITY CONNECTION PERMIT FOR WORK WITHIN THE STATE RIGHT-OF-WAY (ROW) PRIOR TO CONSTRUCTION. THE PHYSICAL ALTERATION PERMIT (PAP) IS NOT A SUBSTITUTE FOR THE UTILITY PERMIT AND THE PAP DOES NOT CONSTITUTE AN APPROVAL OF ANY UTILITY WORK.
3. ALL TRAFFIC CONTROL MUST CONFORM TO THE MUTCD, LATEST EDITION, WITH ALL REVISIONS.
4. NO LANE OR SHOULDER CLOSURES ARE ALLOWED TO BE PERFORMED WITHIN THE STATE ROW DURING PEAK TRAFFIC HOURS.
5. SEWER AND WATER CONNECTIONS WITHIN THE STATE ROW WILL REQUIRE A SEPARATE RIDOT UTILITY PERMIT, WHICH CONTRACTOR MUST OBTAIN BEFORE CONSTRUCTION.
6. THE DRAINAGE SYSTEM IS DESIGNED TO DECREASE BOTH STORMWATER RUNOFF RATE, AND STORMWATER RUNOFF VOLUME TO THE STATE ROW FROM PRE-DEVELOPMENT TO POST-DEVELOPMENT. THERE SHALL BE NO INCREASE IN RUNOFF TO THE STATE ROW FROM THE PROPOSED DEVELOPMENT.
7. WORK WITHIN THE STATE'S ROW WILL CONFORM TO PROPOSED PUBLIC RIGHTS-OF-WAY ACCESSIBILITY GUIDELINES (PROWAG). WORK ON-SITE WILL CONFORM TO AMERICANS WITH DISABILITIES ACT ACCESSIBILITY GUIDELINES (ADAAG) UNLESS THE WORK IS ON STATE OWNED LAND.

GRADING AND UTILITY NOTES:

- 1. CONSTRUCTION TO COMMENCE SPRING 2022 OR UPON RECEIPT OF ALL NECESSARY APPROVALS.
2. 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.
3. 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.
4. PRIOR TO START OF CONSTRUCTION, CONTRACTOR MUST VERIFY EXISTING PAVEMENT ELEVATIONS AT INTERFACE WITH PROPOSED PAVEMENTS, AND EXISTING GROUND ELEVATIONS ADJACENT TO DRAINAGE OUTLETS TO ASSURE PROPER TRANSITIONS BETWEEN EXISTING AND PROPOSED UTILITIES. CONTRACTOR MUST NOTIFY DESIGN ENGINEER OF ANY DISCREPANCIES PRIOR TO CONSTRUCTION.
5. ALL PROPOSED UNDERGROUND UTILITIES SERVING THE SITE AND BUILDINGS MUST BE COORDINATED WITH OWNER, ARCHITECT, AND ENGINEER PRIOR TO INSTALLATION.
6. 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.
7. 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 GETTING OF THE PROJECT. DIPRETE ENGINEERING IS NOT PROVIDING THE FILL SPECIFICATION, GEOTECHNICAL ENGINEERING, STRUCTURAL ENGINEERING SERVICES, OR SUPERVISION AS PART OF THESE DRAWINGS.
8. MATERIAL STOCKPILES MUST NOT BE LOCATED IN THE RIGHT-OF-WAY, AND TRENCHES MUST NOT BE LEFT OPEN OVERNIGHT.
9. ALL LOAM IN DISTURBED AREAS MUST BE STOCKPILED FOR FUTURE USE.
10. ALL EXCESS SOIL, TREES, ROCKS, BOLLARDS, 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.
11. THE SITE WILL HAVE 3" BITUMINOUS BERM. SITE GRADING/CONTOURS SHOWN ON THE PLANS DO NOT NECESSARILY REFLECT THE APPROPRIATE BERM REVEAL. CONTRACTOR MUST INSTALL CURBING WITH APPROPRIATE REVEAL UNLESS OTHERWISE NOTED.
12. NO STUMP DUMPS ARE PROPOSED ON SITE.
13. ALL DRAINAGE OUTFALLS ARE DESIGNED TO BE INSTALLED AT EXISTING GROUND ELEVATION. CONTRACTOR MUST IMMEDIATELY NOTIFY DIPRETE ENGINEERING 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 DIPRETE ENGINEERING, IS DONE AT THE CONTRACTOR'S RISK.
14. CONTRACTOR MUST PROVIDE SAND CUTTING AND FULL DEPTH PAVEMENT RESTORATION IN AREAS WHERE PAVEMENT AND/OR SIDEWALK IS REMOVED FOR UTILITY INSTALLATION.
15. IF ROADWAY SURFACE PAVEMENT COURSE 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.
16. ALL DRAINAGE PIPING MUST BE HIGH-DENSITY POLYETHYLENE (HDPE) WITH WATERTIGHT JOINTS WHERE INSTALLED WITHIN THE SEASONAL HIGH GROUNDWATER TABLE UNLESS NOTED OTHERWISE ON THE PLANS OR IN THE SPECIFICATIONS. ALL STORMWATER PIPE WITHIN THE STATE'S RIGHT-OF-WAY MUST BE REINFORCED CONCRETE PIPE (RCP).
17. DRAINAGE STRUCTURES MUST BE AS FOLLOWS (UNLESS OTHERWISE NOTED ON PLANS):
18. CATCH BASINS ALONG CURBING: RIDOT STD 4.4.0.0, TYPE F, 4' DIAMETER WITH APRON STONE
19. CATCH BASIN NOT ALONG CURBING: RIDOT STD 4.4.0.4, 4' DIAMETER
20. CATCH BASINS MUST HAVE 3 FT SUMP WITHOUT SEEP HOLES
21. SINGLE FRAME CATCH BASIN GRATES: RIDOT STD 6.3.2
22. DOUBLE FRAME CATCH BASIN GRATES: RIDOT STD 6.3.2
23. HIGH CAPACITY CATCH BASIN GRATES: RIDOT STD 6.3.4 AND INSTALLED ANYWHERE GRADES ARE 6% AND STEEPER
24. MANHOLES: RIDOT STD 4.2.0, 4.2.1 OR 4.2.2 AS REQUIRED
25. DRAINAGE MANHOLE COVERS: RIDOT STD 6.2.1
26. DROP INLETS: RIDOT STD 4.5.0, 4.5.1 OR 4.5.2
27. APRON STONE, WHERE REQUIRED: RIDOT STD 7.1.7 OR 7.1.8
28. HEADWALLS: RIDOT STD 2.1.0

- 19. CATCH BASINS ALONG CURBING: RIDOT STD 4.4.0.0, TYPE F, 4' DIAMETER WITH APRON STONE
20. CATCH BASIN NOT ALONG CURBING: RIDOT STD 4.4.0.4, 4' DIAMETER
21. CATCH BASINS MUST HAVE 3 FT SUMP WITHOUT SEEP HOLES
22. SINGLE FRAME CATCH BASIN GRATES: RIDOT STD 6.3.2
23. DOUBLE FRAME CATCH BASIN GRATES: RIDOT STD 6.3.2
24. HIGH CAPACITY CATCH BASIN GRATES: RIDOT STD 6.3.4 AND INSTALLED ANYWHERE GRADES ARE 6% AND STEEPER
25. MANHOLES: RIDOT STD 4.2.0, 4.2.1 OR 4.2.2 AS REQUIRED
26. DRAINAGE MANHOLE COVERS: RIDOT STD 6.2.1
27. DROP INLETS: RIDOT STD 4.5.0, 4.5.1 OR 4.5.2
28. APRON STONE, WHERE REQUIRED: RIDOT STD 7.1.7 OR 7.1.8
29. HEADWALLS: RIDOT STD 2.1.0

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 TIE 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 OF RECORD PRIOR TO CONSTRUCTION.

WATER

ALL WATER MAINS MUST BE CEMENT LINED DUCTILE IRON PIPE (CLDIP). ALL WATER MAIN IMPROVEMENTS MUST COMPLY WITH KENT COUNTY WATER AUTHORITY (KCWA) 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 POLES, TRANSFORMERS, PULL BOXES, CONCRETE ENCASUREMENTS AND CONDUITS. CONNECTION POINTS FOR ELECTRIC AND TELECOM UTILITIES, AT THE EXISTING INFRASTRUCTURE, ARE CURRENTLY SHOWN AS UNDERGROUND UTILITIES. THESE UTILITIES MAY BE UNDERGROUND OR OVERHEAD AND MUST BE COORDINATED WITH NATIONAL GRID PRIOR TO CONSTRUCTION.

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 POLES, TRANSFORMERS, PULL BOXES, CONCRETE ENCASUREMENTS AND CONDUITS. CONNECTION POINTS FOR ELECTRIC AND TELECOM UTILITIES, AT THE EXISTING INFRASTRUCTURE, ARE CURRENTLY SHOWN AS UNDERGROUND UTILITIES. THESE UTILITIES MAY BE UNDERGROUND OR OVERHEAD AND MUST BE COORDINATED WITH NATIONAL GRID PRIOR TO CONSTRUCTION.

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

Table with 2 columns: Abbreviation and Description. Includes ADA, AHJ, AP, ARCH, BC, BT, BIT, BIO, BS, BW, CB, (C), (CA), CLDIP, CO, CONC, (D), DCB, DI, DMH, DP, ELEV, EOP, ESC, EX, FES, FFE, GS, GWT, HW, HC, HDPE, ID, INV, INF, LARCH, LF, LOD, LP, (M), MEP, N/F, OHW, PE, PL, PR, PVC, R, R&D, RCP, RIBH, ROW, S, SD, SED, SF, SFL, SFM, SG, SHL, SMH, SNDF, SS, STA, TRANS, TW, UDS, UIS, UP, W, WO.

SITE CALL OUTS LEGEND

Table with 2 columns: Callout and Description. Includes 7.3.0, 7.3.1, 7.5.1, 7.5.8, 20.1.0, 4DY, 4W, 4WLS, 6WS, 6W, 12W.

RI DEPARTMENT OF ENVIRONMENTAL MANAGEMENT OFFICE OF WATER RESOURCES FRESHWATER WETLANDS PROGRAM

NOTE PER DEM: Kindly be advised that this Permit is not equivalent to a verification of the type or extent of freshwater wetlands on site

RI DEPARTMENT OF ENVIRONMENTAL MANAGEMENT OFFICE OF WATER RESOURCES FRESHWATER WETLANDS PROGRAM

APPROVED WITH CONDITIONS AS SPECIFIED IN THE LETTER OF APPROVAL DATED: MAY 18 2023 FILE #: 22-0115 NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL APPROVED PLANS MUST BE AT CONSTRUCTION SITE

PLANNING BOARD APPROVED - WEST WARWICK, RI CHAIRMAN: DATE:

EXISTING LEGEND

Table with 2 columns: Symbol and Description. Includes PROPERTY LINE, ASSESSORS LINE, BUILDING, BRUSHLINE, TREE LINE, GUARDRAIL, FENCE, RETAINING WALL, STONE WALL, SLOPE, MINOR CONTOUR LINE, MAJOR CONTOUR LINE, WATER LINE, SEWER LINE, SEWER FORCE MAIN, GAS LINE, ELECTRIC LINE, OVERHEAD WIRES, DRAINAGE LINE, SOILS LINES, 50' PERIMETER WETLAND, 100' RIVERBANK WETLAND, 200' RIVERBANK WETLAND, FEMA BOUNDARY, STREAM, WETLAND LINE & FLAG, STATE HIGHWAY LINE, STATE FREEWAY LINE, GROUNDWATER OVERLAY, GROUNDWATER RECHARGE AREA, GROUNDWATER RESERVOIR, NATURAL HERITAGE, COMMUNITY WELHEAD PROTECTION, NON-COMMUNITY WELHEAD PROTECTION.

PROPOSED LEGEND

Table with 2 columns: Symbol and Description. Includes PROPERTY LINE, BUILDING SETBACKS, CHAINLINK FENCE, GUARDRAIL, SEE LAYOUT AND MATERIALS NOTE 8, RETAINING WALL, MINOR CONTOUR LINE, MAJOR CONTOUR LINE, SPOT ELEVATION, EDGE OF PAVEMENT, BITUMINOUS BERM, CONCRETE CURB (RIDOT STD 7.1.0), BUILDING FOOTPRINT, BUILDING OVERHANG, ASPHALT PAVEMENT, HEAVY DUTY ASPHALT PAVEMENT, HEAVY DUTY CONCRETE, CONCRETE, ASPHALT SIDEWALK, SAWCUT LINE, SIGN (RIDOT STD 24.6.2 AS APPLICABLE), SINGLE LIGHT, DOUBLE LIGHT, OVERHANGING LIGHT, ACCESSIBLE PARKING SPACE SYMBOLS, BUILDING INGRESS/EGRESS, PARKING COUNT, DRAINAGE LINE, PERFORATED SUBDRAIN, ROOF LEADER, SWALE, SEWER FORCE MAIN, GAS LINE, WATER LINE, HYDRANT ASSEMBLY, WATER SHUT OFF, WATER VALVE, THRUST BLOCK, SEWER LINE, OVERHEAD WIRE, ELECTRIC, TELEPHONE, CABLE LINE, LIMIT OF DISTURBANCE/ LIMIT OF CLEARING, SEDIMENTATION BARRIER, SILT FENCE (RIDOT STD 9.2.0), COMPOST SOCK OR APPROVED EQUAL, SLOPES STEEPER THAN 3:1 (2:1 OR 1:1 SLOPES), UNDERGROUND INFILTRATION OUTLINE, POND ACCESS, RIPRAP, SAND FILTER, BIO RETENTION, CATCH BASIN, DOUBLE CATCH BASIN, MANHOLE, FLARED END SECTION, HEADWALL.

UTILITY NOTE:

ALL UNDERGROUND UTILITIES SHOWN ON THESE PLANS 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. 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 OWNERS AND, OR, 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. 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.

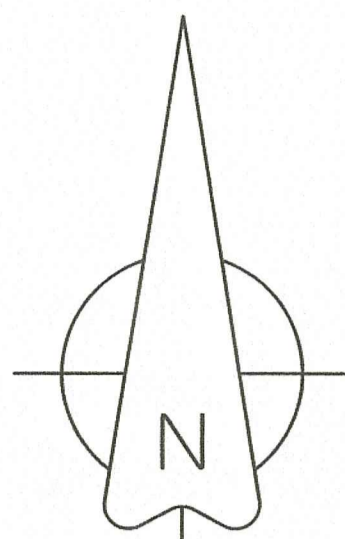
DiPrete Engineering logo and contact information: Two Stafford Court Cranston, RI 02920 tel: (401) 943-1000 fax: (401) 464-6006 www.diprete-eng.com

KEVIN DEMERS REGISTERED PROFESSIONAL ENGINEER CIVIL

RI Environmental Management logo and date: APR 26 2023 Office of Water Resources

Table with 4 columns: NO., DATE, DESCRIPTION, DRAWN BY: J.A.R. Includes entries for RISESC COMMENTS, RISESC SUBMISSION, and RISESC DESIGN.

NOTES AND LEGEND GREENWICH GLEN CONDOMINIUMS ASSESSOR'S PLAT 12 LOTS 130, 133, AND 764 WEST WARWICK, RHODE ISLAND FRANKLIN COMPANIES P.O. BOX 9402 PROVIDENCE, RHODE ISLAND 02940



NAD83 (2011)(2010.00)

Base Of Levels is NAVD83

Little John Lane

Drive

Drawbridge

Entry Road

Dark

Shippettown Road

Town of West Warwick
Town of East Greenwich

Crompton Road

General Notes

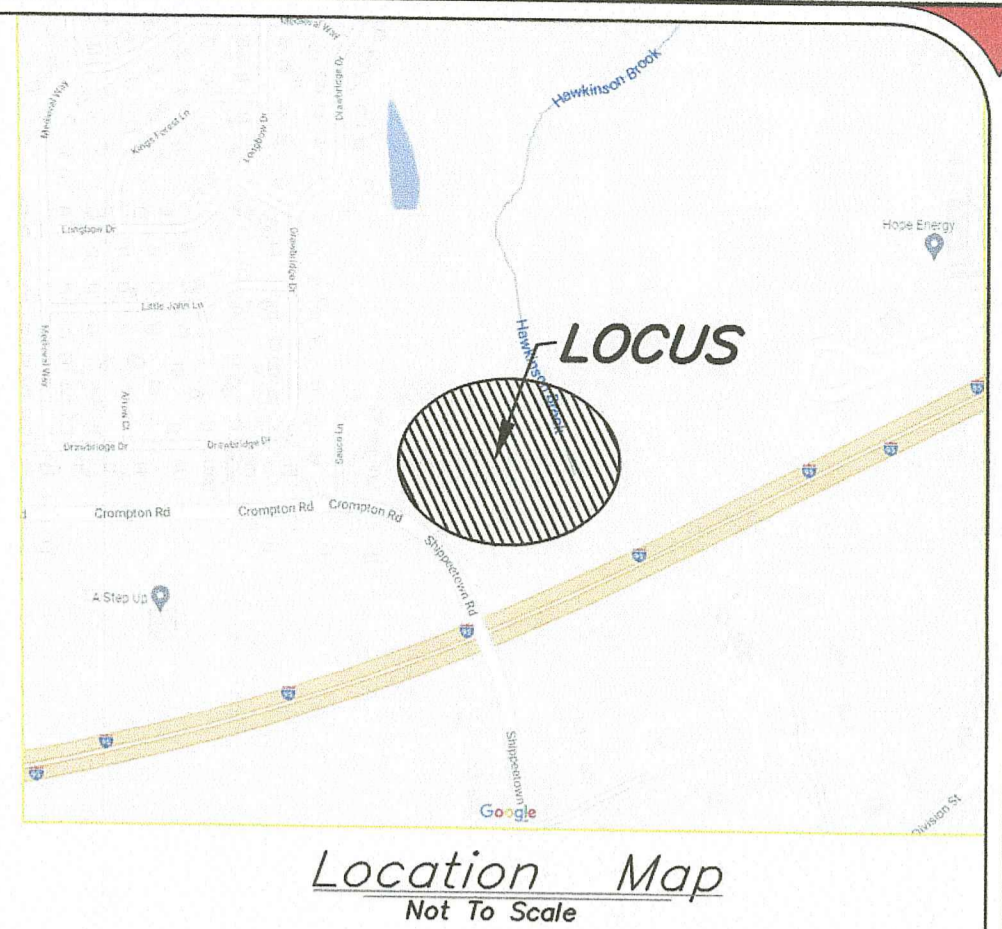
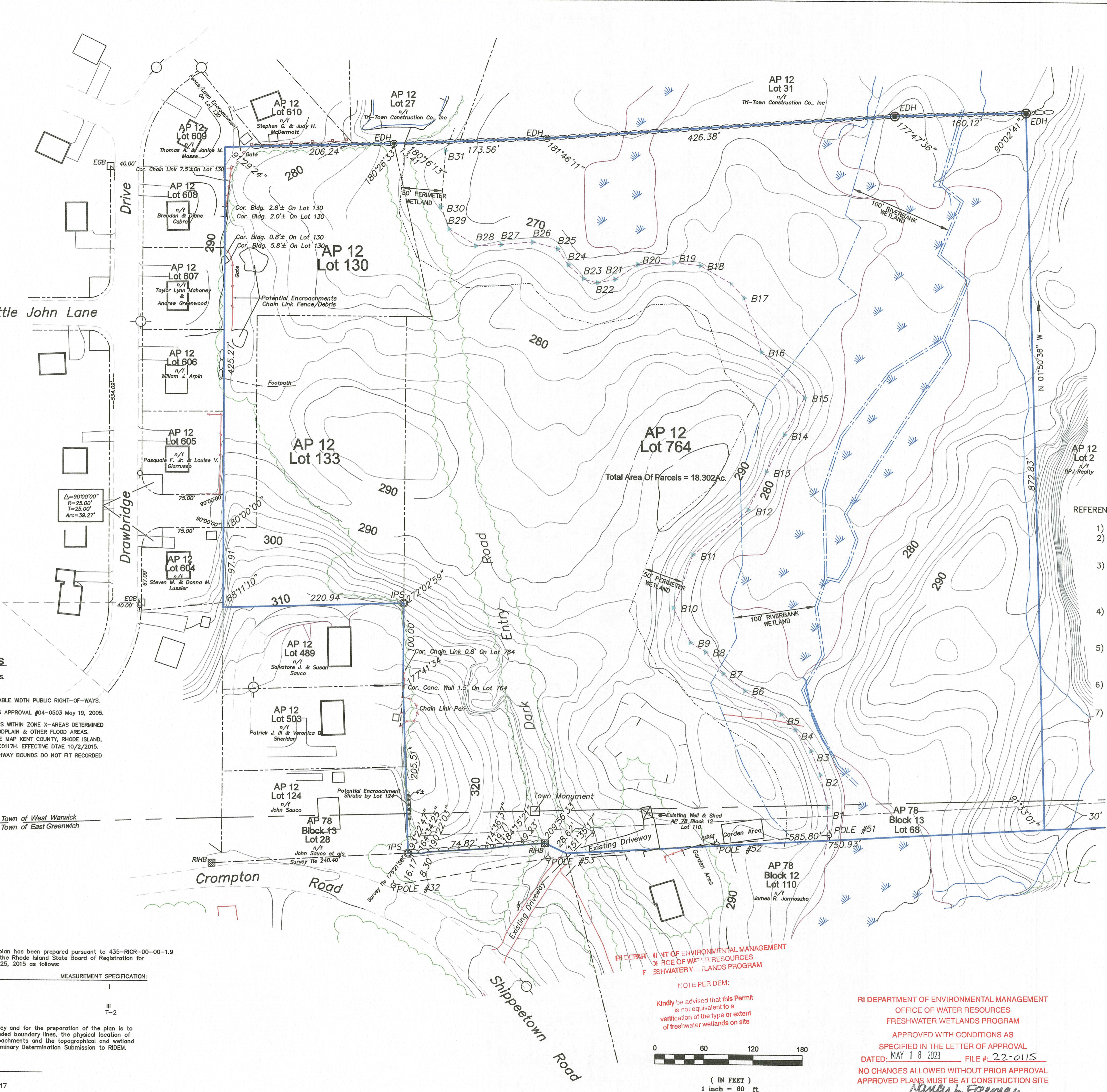
- 1) LOCATION MAP IMAGE TAKEN FROM GOOGLE MAPS.
- 2) SUBJECT PARCEL IS PREDOMINANTLY WOODED.
- 3) CROMPTON ROAD/SHIPEETOWN ROAD ARE VARIABLE WIDTH PUBLIC RIGHT-OF-WAYS.
- 4) WETLAND EDGE IS TAKEN FROM RIDEM WETLANDS APPROVAL #04-0503 MAY 19, 2005.
- 5) BY GRAPHIC SCALING ONLY SUBJECT PARCEL LIES WITHIN ZONE X-AREAS DETERMINED TO BE OUTSIDE THE 0.2% ANNUAL CHANCE FLOODPLAIN & OTHER FLOOD AREAS, AS DELINEATED ON FIRM FLOOD INSURANCE RATE MAP KENT COUNTY, RHODE ISLAND, TOWN OF WEST WARWICK, MAP NUMBER 4400030117H. EFFECTIVE DATE 10/2/2015.
- 6) R.I. HWY. PLAT NO.1016 SHIPEETOWN ROAD HIGHWAY BOUNDS DO NOT FIT RECORDED PLAT ON GROUND AS SET.

CERTIFICATION
This survey has been conducted and the plan has been prepared pursuant to 435-RICR-00-00-1.9 of the Rules and Regulations adopted by the Rhode Island State Board of Registration for Professional Land Surveyors on November 25, 2015 as follows:

TYPE OF BOUNDARY SURVEY: Comprehensive Boundary Survey
MEASUREMENT SPECIFICATION: I
OTHER TYPE OF SURVEY: Date Accumulation Plan
Topographical Survey Accuracy: III-2

The purpose for the conduct of this survey and for the preparation of the plan is to delineate the physical location of the deeded boundary lines, the physical location of observed improvements or potential encroachments and the topographical and wetland features of the subject parcel for a Preliminary Determination Submission to RIDEM.

By: Mark D. Boyer #1888
Boyer Associates C.O.A. # A317



Town Of West Warwick Zoning District R-10

MINIMUM AREA	10,000 SQ. FT.
FRONTAGE	80 FEET
MINIMUM WIDTH	100 FEET
BUILDING SETBACKS	
FRONT YARD	30 FEET
SIDE YARD	10 FEET
REAR YARD	30 FEET

ALL ZONING DATA SHOWN HEREON MUST BE VERIFIED BY THE BUILDING/ZONING OFFICIAL.

RI Environmental Management
APR 26 2023
Office of Water Resources

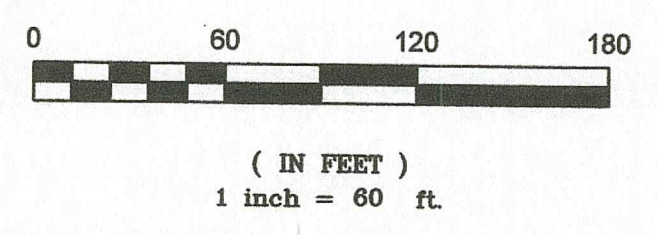
REFERENCES:

- 1) RHODE ISLAND HIGHWAY PLAT NUMBER 1016.
- 2) PLAN OF LAND FOR TRI TOWN ASSOCIATES LOCATION WEST WARWICK, R.I. SCALE: 1"=50' JAN 27, 1988 BY KIRK D. ANDREWS
- 3) FINAL FOR NOTTINGHAM ESTATES SECTION NO. 4 SITUATED IN WEST WARWICK, RHODE ISLAND (AP 12 LOTS 1, 27, 28, 32, & 32) OWNER/DEVELOPER TRI-TOWN ASSOCIATES SCALE: 1"=50' DATE: JUNE 89 BY KIRK D. ANDREWS
- 4) REPLAT OF LOTS 2, 3, 4, AND 5 NOTTINGHAM ESTATES WEST WARWICK, RHODE ISLAND PREPARED FOR G.M. HOMES OF R.I., INC AND PROFILE CONSTRUCTION CO., INC. SCALE 1"=50' DATE: APRIL, 1991. BY KIRK D. ANDREWS
- 5) PROPERTY LINE LOCATIONS WEST WARWICK, RHODE ISLAND PREPARED FOR JOHN & JANICE SAUCO. SCALE 1"=100' DATE: FEBRUARY, 1990. BY BOYER ASSOCIATES
- 6) ASSESSOR'S LOT DIVISION WEST WARWICK, RHODE ISLAND PREPARED FOR JOHN & JANICE SAUCO. SCALE 1"=50' DATE: JANUARY, 1995. BY BOYER ASSOCIATES
- 7) PERIMETER LOCATION SURVEY EAST GREENWICH, RHODE ISLAND PREPARED FOR DONNA M. BELDEN. SCALE 1"=50' DATE: SEPTEMBER, 1996. BY BOYER ASSOCIATES

Legend

100.00'	EXISTING PROPERTY LINE
---	APPROXIMATE ABUTTING PROPERTY LINES
---	CENTERLINE OF HIGHWAY
---	APPROXIMATE TREE LINE
---	EXISTING STONE WALL
---	CURB LINE
---	CHAIN LINK FENCE
---	EXISTING STOCKADE FENCE
---	FLAGGED WETLAND EDGE
---	50' PERIMETER WETLAND
---	100' RIVERBANK WETLAND
☆	LAMP POST
○	OBSERVATION WELL
○	EXISTING IRON PIPE
○	EXISTING IRON PIN
○	IRON PIN SET
○	EXISTING DRILL HOLE
○	DRILL HOLE SET
○	MANHOLE COVER
○	EXISTING RHODE ISLAND HIGHWAY BOUND
○	EXISTING CONCRETE BOUND
○	EXISTING GRANITE BOUND
○	UTILITY POLE

Street Index
Crompton Road
Drawbridge Drive



RI DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM
APPROVED WITH CONDITIONS AS SPECIFIED IN THE LETTER OF APPROVAL
DATED: MAY 18 2023 FILE #: 22-0115
NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL
APPROVED PLANS MUST BE AT CONSTRUCTION SITE
Nancy L. Freeman

Being: West Warwick Assessors Plat No. 12 Lot No.'s 130, 133 & 764
East Greenwich Assessors Plat No. 78 Block 13 Lot 68

EXISTING CONDITIONS PLAN

LOCATION
Crompton Road
West Warwick & East Greenwich, Rhode Island
PREPARED FOR
Franklin Companies
P.O. Box 9402, Providence, RI 02940

Checked By:	MDB	Drawn By:	MDB	Date:	January 24, 2022
Scale:	1" = 60'	NO. REVISION	BY	DATE	

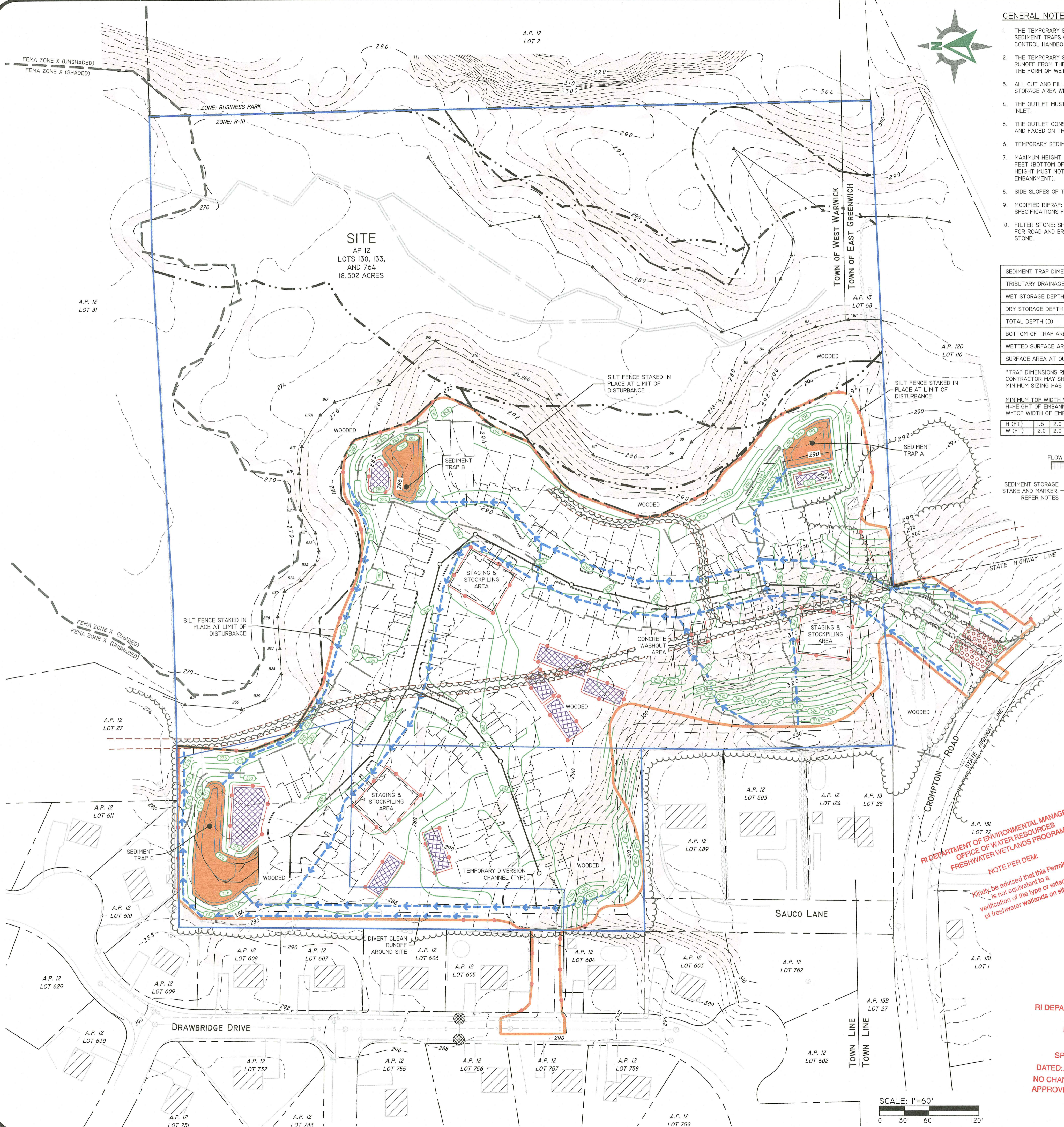


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BOYER ASSOCIATES

1071 MAIN STREET
WEST WARWICK, RI 02893
TEL: (401)821-8872 FAX (401)826-1993

Sheet 4
of 16 sheets



GENERAL NOTES:

1. THE TEMPORARY SEDIMENT TRAP SHALL MEET ALL REQUIREMENTS FOR TEMPORARY SEDIMENT TRAPS OUTLINED IN THE RHODE ISLAND SOIL EROSION AND SEDIMENT CONTROL HANDBOOK (LATEST REVISION) SECTION SIX: SEDIMENT CONTROL MEASURES.
2. THE TEMPORARY SEDIMENT TRAP MUST PROVIDE A STORAGE VOLUME FOR ONE INCH OF RUNOFF FROM THE CONTRIBUTING AREA. HALF OF THE STORAGE MUST BE PROVIDED IN THE FORM OF WET STORAGE. SEE DETAIL BELOW SECTION 6 OF THE RISESCH.
3. ALL CUT AND FILL SLOPES MUST BE 2:1 OR FLATTER EXCEPT FOR THE EXCAVATED WET STORAGE AREA WHERE SLOPES MUST NOT EXCEED 1.5:1.
4. THE OUTLET MUST BE LOCATED AT THE MOST DISTANT HYDRAULIC POINT FROM THE INLET.
5. THE OUTLET CONSISTS OF A PERVIOUS STONE DIKE WITH A CORE OF MODIFIED RIPRAP AND FACED ON THE UPSTREAM SIDE WITH STONE.
6. TEMPORARY SEDIMENT TRAPS MUST OUTLET ONTO STABILIZED GROUND.
7. MAXIMUM HEIGHT OF A TEMPORARY SEDIMENT TRAP EMBANKMENT IS LIMITED TO 5 FEET (BOTTOM OF DRY STORAGE TO TOP OF EMBANKMENT). TOTAL EMBANKMENT HEIGHT MUST NOT EXCEED 6 FEET (BOTTOM OF WET STORAGE TO TOP OF EMBANKMENT).
8. SIDE SLOPES OF THE EMBANKMENT MUST BE 2:1 OR FLATTER.
9. MODIFIED RIPRAP: SHALL MEET THE REQUIREMENTS OF RIDOT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION SUBSECTION M.10.03.2.
10. FILTER STONE: SHALL MEET THE REQUIREMENTS OF RIDOT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION SUBSECTION M.01.03 TABLE I, COLUMN V FILTER STONE.

INSPECTION, MAINTENANCE, AND REMOVAL REQUIREMENTS:

1. INSTALL "SEDIMENT STORAGE" STAKE WITH A MARKER AT ONE HALF OF THE WET STORAGE VOLUME.
2. INSPECT THE TEMPORARY SEDIMENT TRAP AT LEAST ONCE A WEEK AND WITHIN 24 HOURS OF THE END OF A STORM WITH A RAINFALL AMOUNT OF 0.25 INCH OR GREATER.
3. CHECK THE OUTLET TO ENSURE THAT IT IS STRUCTURALLY SOUND AND HAS NOT BEEN DAMAGED BY EROSION OR CONSTRUCTION EQUIPMENT.
4. CHECK FOR SEDIMENT ACCUMULATION AND FILTRATION PERFORMANCE.
5. WHEN SEDIMENTS HAVE ACCUMULATED TO ONE HALF THE MINIMUM REQUIRED VOLUME OF THE WET STORAGE, DEWATER THE TRAP AS NEEDED, REMOVE SEDIMENTS AND RESTORE THE TRAP TO ITS ORIGINAL DIMENSIONS.
6. DISPOSE OF THE SEDIMENT REMOVED FROM THE BASIN IN A SUITABLE AREA AS DESIGNATED BY THE GEOTECHNICAL ENGINEER.
7. THE TEMPORARY SEDIMENT TRAP MAY BE REMOVED AFTER THE CONTRIBUTING DRAINAGE AREA IS STABILIZED.

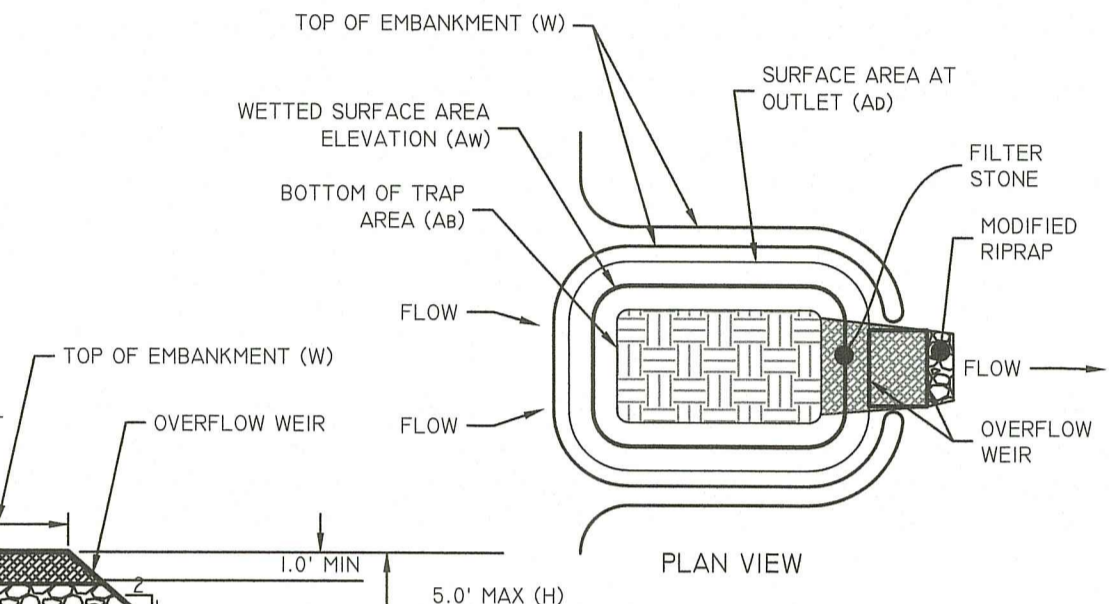
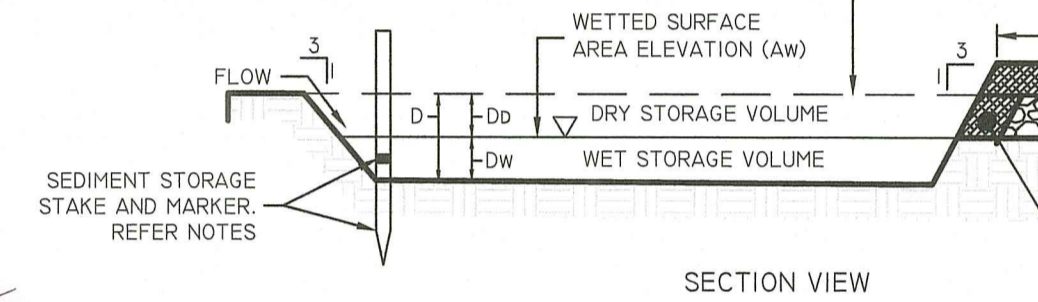
INSTALLATION NOTES:

1. CLEAR, GRUB AND STRIP ANY VEGETATION AND ROOT MAT FROM ANY PROPOSED EMBANKMENT AND OUTLET AREA.
2. REMOVE STONES AND ROCKS WHOSE DIAMETER IS GREATER THAN THREE (3) INCHES AND OTHER DEBRIS.
3. EXCAVATE WET STORAGE AND CONSTRUCT THE EMBANKMENT AND/OR OUTLET AS NEEDED TO ATTAIN THE NECESSARY STORAGE REQUIREMENTS.
4. USE ONLY FILL MATERIAL FOR THE EMBANKMENT THAT IS FREE FROM EXCESSIVE ORGANICS, DEBRIS, LARGE ROCKS (OVER SIX (6) INCHES) OR OTHER UNSUITABLE MATERIALS. COMPACT THE EMBANKMENT IN 9-INCH LAYERS BY TRAVERSING WITH EQUIPMENT WHILE IT IS BEING CONSTRUCTED.
5. STABILIZE THE EARTHEN EMBANKMENT USING ANY OF THE FOLLOWING MEASURES: SEEDING FOR TEMPORARY VEGETATION COVER; SEEDING FOR PERMANENT VEGETATIVE COVER; OR SLOPE PROTECTION, IMMEDIATELY AFTER INSTALLATION.

SEDIMENT TRAP DIMENSIONS*	TRAP A	TRAP B	TRAP C
TRIBUTARY DRAINAGE AREA	1,305 AC	1,722 AC	4,234 AC
WET STORAGE DEPTH (Dw)	2.00 FT	2.00 FT	2.00 FT
DRY STORAGE DEPTH (Dd)	1.00 FT	1.50 FT	1.00 FT
TOTAL DEPTH (D)	3.00 FT	3.50 FT	3.00 FT
BOTTOM OF TRAP AREA (Ab)	1,032 sq.ft	878 sq.ft	1,767 sq.ft
WETTED SURFACE AREA (Aw)	1,981 sq.ft	1,951 sq.ft	5,613 sq.ft
SURFACE AREA AT OUTLET (Ad)	2,556 sq.ft	2,877 sq.ft	6,859 sq.ft

*TRAP DIMENSIONS REPRESENT MINIMUM REQUIRED SIZING TO MEET THE RISESCH. CONTRACTOR MAY SHAPE TRAP DIFFERENTLY THAN SHOWN ON PLANS AS LONG AS THE MINIMUM SIZING HAS BEEN PROVIDED.

MINIMUM TOP WIDTH VS HEIGHT	
H (FT)	W (FT)
1.5	2.0
2.0	3.0
2.5	3.5
3.0	4.0
3.5	4.5
4.0	5.0
4.5	5.0
5.0	5.0



TEMPORARY SEDIMENT TRAP DETAIL
NOT TO SCALE

GENERAL NOTES:

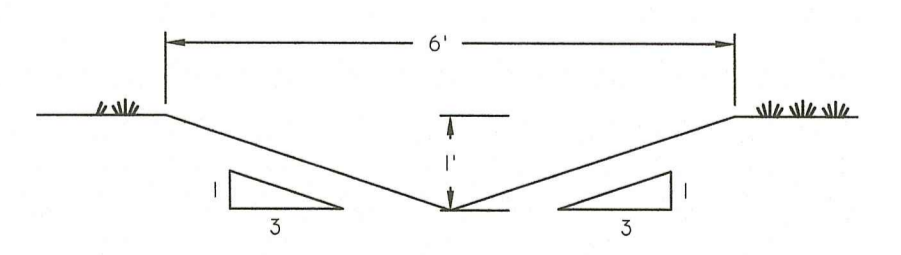
1. SEE SOIL EROSION AND SEDIMENTATION CONTROL NOTES ON SHEET 3.
2. THESE PLANS MUST BE READ IN CONJUNCTION WITH THE SOIL EROSION AND SEDIMENT CONTROL PLAN BY DIPRETE ENGINEERING (CURRENT EDITION).
3. SEDIMENT EROSION CONTROL PHASING TO MINIMIZE DISTURBANCE TO THE MAXIMUM EXTENT PRACTICABLE.
4. STAGING, STOCKPILE AND CONCRETE WASHOUT AREAS SHOWN ON THE PLANS ARE INDICATIVE ONLY. ACTUAL STAGING, STOCKPILE AND WASHOUT AREAS WILL BE DRIVEN BY CONSTRUCTION OPERATIONS AND SITE CONDITIONS, SO LONG AS THEY REMAIN COMPLIANT WITH ALL APPLICABLE REGULATIONS AND GUIDANCE DOCUMENTS.

SOIL EROSION CONTROL LEGEND

- DIVERSION RUNOFF CONVEYANCE MEASURE (SWALE AND/OR BERM)
- TEMPORARY SEDIMENT TRAP
- EROSION CONTROL (COMPOST SOCK, SILT FENCE (RI STD 9.2.0, OR APPROVED EQUAL), OR LIMIT OF DISTURBANCE (NO SEDIMENT CONTROL), OR LIMIT OF DISTURBANCE WITH SEDIMENT CONTROL)
- CONSTRUCTION ENTRANCE (RIDOT STD 9.9.0)
- INFILTRATING AREA (TO BE PROTECTED BY COMPOST SOCK OR SILT FENCE)
- FINAL CONTOUR GRADE
- INLET SEDIMENT CONTROL
- TRIBUTARY AREA TO SESC BMP
- SLOPES 15% OR GREATER

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. 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.
 - PHASE III - CONSTRUCT DWELLINGS ON INDIVIDUAL LOTS. STABILIZE ANY TRIBUTARY AREAS DISTURBED DURING CONSTRUCTION OF UNITS.
 - PHASE IV - REPEAT III FOR INDIVIDUAL LOT PHASE.
- 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.



TEMPORARY DIVERSION CHANNEL
NOT TO SCALE

RI DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM

NOTE PER DEM: Kindly be advised that this Permit is not equivalent to a verification of the type or extent of freshwater wetlands on site.

RI DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM

APPROVED WITH CONDITIONS AS SPECIFIED IN THE LETTER OF APPROVAL DATED: MAY 18 2023 FILE #: 22-0115

NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL APPROVED PLANS MUST BE AT 200% SCALE

PLANNING BOARD APPROVED - WEST WARWICK, RI

CHAIRMAN: _____
DATE: _____

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

KEVIN DEMERS
REGISTERED PROFESSIONAL ENGINEER CIVIL

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

DIPRETE ENGINEERING ONLY WARRANTS PLANS ON A DIPRETE PROFESSIONAL ENGINEER OF DIPRETE ENGINEERING. DIPRETE ENGINEERING DOES NOT WARRANT PLANS BY ANY OTHER PARTY.

WITH HOLD: SAFETY PRECAUTIONS AND REQUIREMENTS AND OSHA COMPLIANCE IN THE IMPLEMENTATION OF THIS PLAN AND EXISTING UTILITIES SHOWN ON THIS PLAN ARE APPROXIMATE. ONLY DIPRETE ENGINEERING ASSUMES NO RESPONSIBILITY FOR THE ACCURACY OF EXISTING UTILITIES. SEE UTILITY NOTES ON SHEET 3.

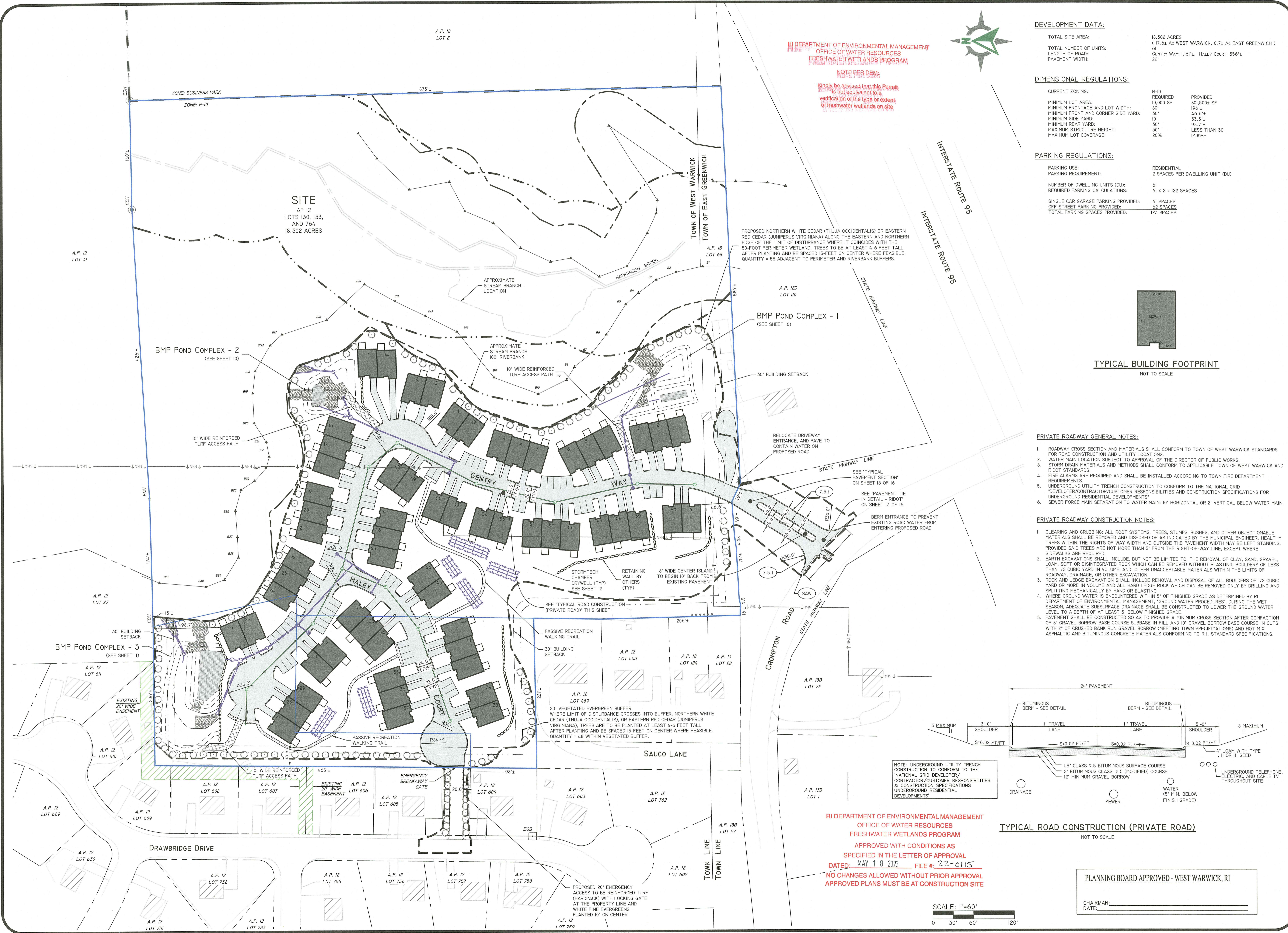
NO.	DATE	DESCRIPTION	BY:
1	03-15-2023	ISSUE COMMENTS	J.A.R.
2	03-15-2023	PLANNING SUB	J.A.R.
3	03-15-2023	PERM SUBMISSION	J.A.R.
4			
5			
6			
7			
8			
9			
10			

DESIGN BY: K.J.D.
DRAWN BY: J.A.R.

SOIL EROSION & SEDIMENT CONTROL PLAN
GREENWICH GLEN CONDOMINIUMS
ASSESSOR'S PLAT 12 LOTS 130, 133, AND 764
WEST WARWICK, RHODE ISLAND

PREPARED FOR:
FRANKLIN COMPANIES
P.O. BOX 9402
PROVIDENCE, RHODE ISLAND 02940

DATE: _____



RI DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM

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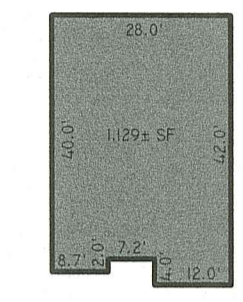
DEVELOPMENT DATA:
TOTAL SITE AREA: 18.302 ACRES (17.6± AC WEST WARWICK, 0.7± AC EAST GREENWICH)
TOTAL NUMBER OF UNITS: 61
LENGTH OF ROAD: 61
PAVEMENT WIDTH: 22'

DIMENSIONAL REGULATIONS:

CURRENT ZONING:	R-10	REQUIRED	PROVIDED
MINIMUM LOT AREA:	10,000 SF	80	801,500± SF
MINIMUM FRONTAGE AND LOT WIDTH:	80	30'	195'±
MINIMUM FRONT AND CORNER SIDE YARD:	30'	30'	4.6'±
MINIMUM SIDE YARD:	10'	30'	33.5'±
MINIMUM REAR YARD:	30'	30'	98.7'±
MAXIMUM STRUCTURE HEIGHT:	30'	30'	LESS THAN 30'
MAXIMUM LOT COVERAGE:	20%	20%	12.8%±

PARKING REGULATIONS:

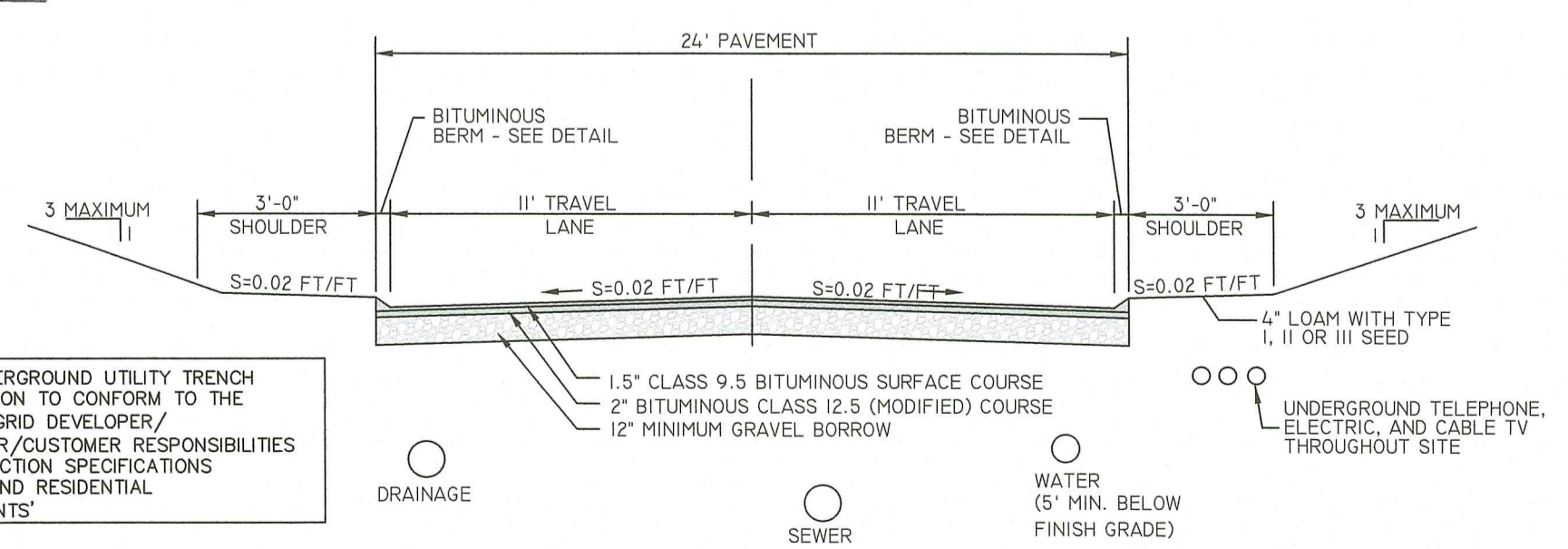
PARKING USE:	RESIDENTIAL
PARKING REQUIREMENT:	2 SPACES PER DWELLING UNIT (DU)
NUMBER OF DWELLING UNITS (DU):	61
REQUIRED PARKING CALCULATIONS:	61 x 2 = 122 SPACES
SINGLE CAR GARAGE PARKING PROVIDED:	61 SPACES
OFF STREET PARKING PROVIDED:	62 SPACES
TOTAL PARKING SPACES PROVIDED:	123 SPACES



TYPICAL BUILDING FOOTPRINT
NOT TO SCALE

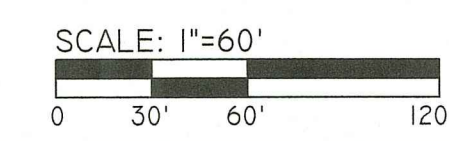
- PRIVATE ROADWAY GENERAL NOTES:**
- ROADWAY CROSS SECTION AND MATERIALS SHALL CONFORM TO TOWN OF WEST WARWICK STANDARDS FOR ROAD CONSTRUCTION AND UTILITY LOCATIONS.
 - WATER MAIN LOCATION SUBJECT TO APPROVAL OF THE DIRECTOR OF PUBLIC WORKS.
 - STORM DRAIN MATERIALS AND METHODS SHALL CONFORM TO APPLICABLE TOWN OF WEST WARWICK AND RI STANDARDS.
 - FIRE ALARMS ARE REQUIRED AND SHALL BE INSTALLED ACCORDING TO TOWN FIRE DEPARTMENT REQUIREMENTS.
 - UNDERGROUND UTILITY TRENCH CONSTRUCTION TO CONFORM TO THE NATIONAL GRID "DEVELOPER/CONTRACTOR/CUSTOMER RESPONSIBILITIES AND CONSTRUCTION SPECIFICATIONS FOR UNDERGROUND RESIDENTIAL DEVELOPMENTS".
 - SEWER FORCE MAIN SEPARATION TO WATER MAIN: 10' HORIZONTAL OR 2' VERTICAL BELOW WATER MAIN.

- PRIVATE ROADWAY CONSTRUCTION NOTES:**
- CLEARING AND GRUBBING: ALL ROOT SYSTEMS, TREES, STUMPS, BUSHES, AND OTHER OBJECTIONABLE MATERIALS SHALL BE REMOVED AND DISPOSED OF AS INDICATED BY THE MUNICIPAL ENGINEER. HEALTHY TREES WITHIN THE RIGHTS-OF-WAY WIDTH AND OUTSIDE THE PAVEMENT WIDTH MAY BE LEFT STANDING, PROVIDED SAID TREES ARE NOT MORE THAN 5' FROM THE RIGHT-OF-WAY LINE, EXCEPT WHERE SIDEWALKS ARE REQUIRED.
 - EARTH EXCAVATIONS SHALL INCLUDE, BUT NOT BE LIMITED TO, THE REMOVAL OF CLAY, SAND, GRAVEL, LOAM, SOFT OR DISINTEGRATED ROCK WHICH CAN BE REMOVED WITHOUT BLASTING; BOULDERS OF LESS THAN 1/2 CUBIC YARD IN VOLUME; AND OTHER UNACCEPTABLE MATERIALS WITHIN THE LIMITS OF ROADWAY, DRAINAGE, OR OTHER EXCAVATION.
 - ROCK AND LEDGE EXCAVATION SHALL INCLUDE REMOVAL AND DISPOSAL OF ALL BOULDERS OF 1/2 CUBIC YARD OR MORE IN VOLUME AND ALL HARD LEDGE ROCK WHICH CAN BE REMOVED ONLY BY DRILLING AND SPLITTING MECHANICALLY BY HAND OR BLASTING.
 - WHERE GROUND WATER IS ENCOUNTERED WITHIN 5' OF FINISHED GRADE AS DETERMINED BY RI DEPARTMENT OF ENVIRONMENTAL MANAGEMENT, "GROUND WATER PROCEDURES": DURING THE WET SEASON, ADEQUATE SUBSURFACE DRAINAGE SHALL BE CONSTRUCTED TO LOWER THE GROUND WATER LEVEL TO A DEPTH OF AT LEAST 5' BELOW FINISHED GRADE.
 - TRAVEL SHALL BE CONSTRUCTED SO AS TO PROVIDE A MINIMUM CROSS SECTION AFTER COMPACTION OF 8" GRAVEL BORROW BASE COURSE SUBBASE IN FILL AND 10" GRAVEL BORROW BASE COURSE IN CUTS WITH 2" OF CRUSHED BANK RUN GRAVEL BORROW (MEETING TOWN SPECIFICATIONS) AND HOT-MIX ASPHALTIC AND BITUMINOUS CONCRETE MATERIALS CONFORMING TO R.I. STANDARD SPECIFICATIONS.



TYPICAL ROAD CONSTRUCTION (PRIVATE ROAD)
NOT TO SCALE

RI DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM
APPROVED WITH CONDITIONS AS SPECIFIED IN THE LETTER OF APPROVAL
DATED: MAY 18 2023 FILE #: 22-0115
NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL
APPROVED PLANS MUST BE AT CONSTRUCTION SITE



PLANNING BOARD APPROVED - WEST WARWICK, RI
CHAIRMAN: _____
DATE: _____

DIPrete Engineering
Two Stafford Court, Cranston, RI 02929
Tel: 401-943-7000 Fax: 401-464-6606 www.diprete-eng.com
Boston • Providence • Newport

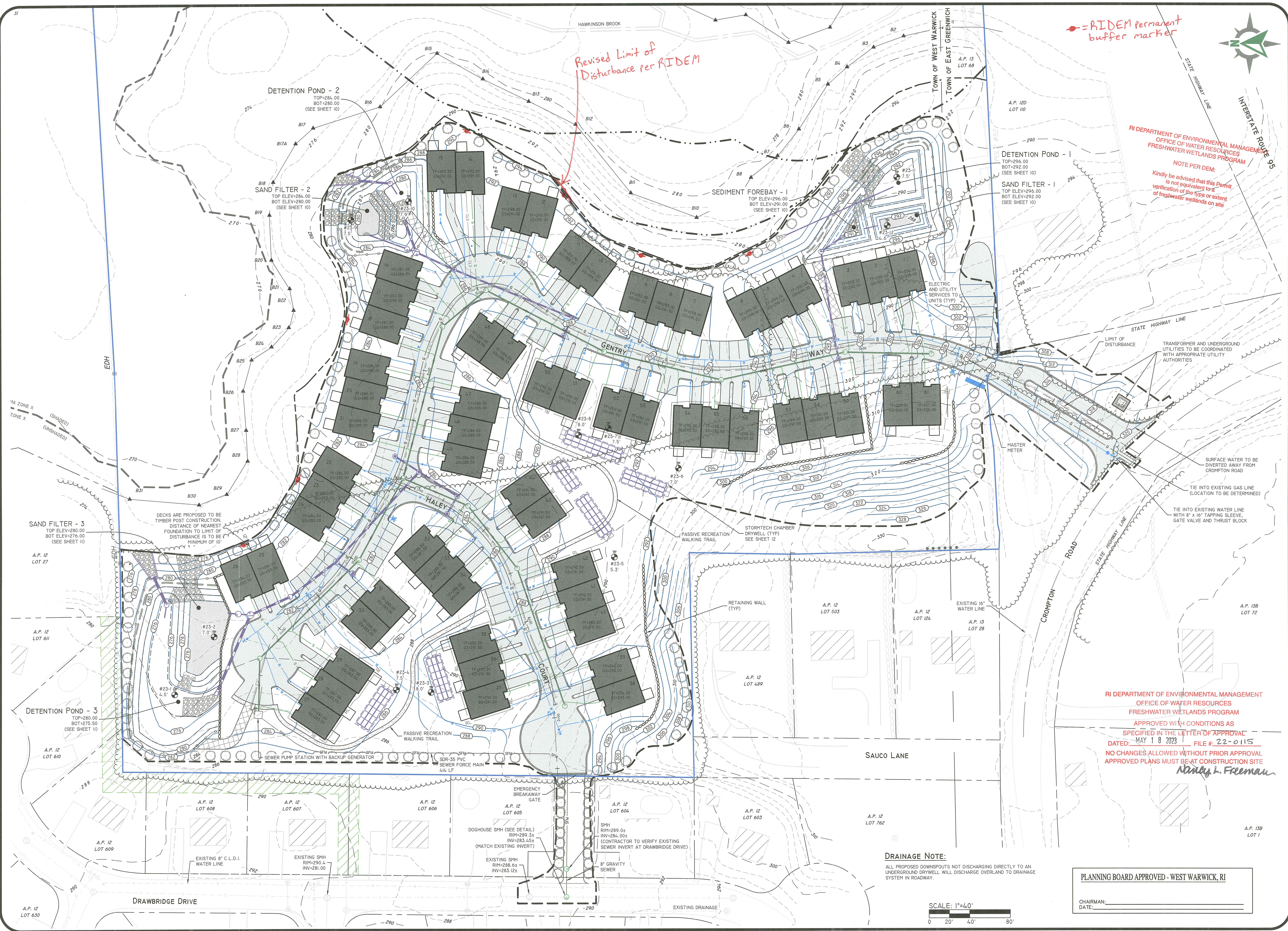
KEVIN DEMERS
REGISTERED PROFESSIONAL ENGINEER CIVIL

RI Environmental Management
APR 26 2023
Office of Water Resources

THIS PLAN AND THE WORKS THEREON ARE THE PROPERTY OF DIPRETE ENGINEERING. NO PART OF THIS PLAN OR THE WORKS THEREON SHALL BE REPRODUCED, COPIED, OR TRANSMITTED IN ANY FORM OR BY ANY MEANS, ELECTRONIC OR MECHANICAL, INCLUDING PHOTOCOPYING, RECORDING, OR BY ANY INFORMATION STORAGE AND RETRIEVAL SYSTEM, WITHOUT THE WRITTEN PERMISSION OF DIPRETE ENGINEERING. THE CONTRACTOR IS RESPONSIBLE FOR ALL OF THE MEASUREMENTS AND CONFORMANCE IN THE IMPLEMENTATION OF THIS PLAN AND DESIGN. OBTAINING UTILITIES SHOWN ON THIS PLAN AND ANY APPROPRIATE FOR CONSTRUCTION OF THIS PROJECT. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM ALL AFFECTED AGENCIES AND UTILITIES. DAMAGE INCURRED DUE TO LOCATIONS OF EXISTING UTILITIES, SEE UTILITY LOCATIONS SHEET 2.

NO.	DATE	DESCRIPTION	BY	DESIGN BY
1	4-21-2023	REVISIONS	J.A.R.	K.J.D.
2	10-18-2023	REVISIONS	J.A.R.	K.J.D.
3	10-18-2023	REVISIONS	J.A.R.	K.J.D.

SITE LAYOUT PLAN
GREENWICH GLEN CONDOMINIUMS
ASSESSOR'S PLAT 12 LOTS 130, 133, AND 764
WEST WARWICK, RHODE ISLAND
PREPARED FOR: FRANKLIN COMPANIES
P.O. BOX 94/2
PROVIDENCE, RHODE ISLAND 02940
SHEET 6 OF 16



Revised Limit of Disturbance per RIDEM

→ = RIDEM permanent buffer marker

RI DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM

NOTE PER DEM:
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Diprete Engineering
Two Stafford Court Cranston, RI 02920
Tel: 401-943-1000 Fax: 401-464-6006 www.diprete-eng.com

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KEVIN DEMERS
REGISTERED PROFESSIONAL ENGINEER
CIVIL

APR 26 2023
Office of Water Resources

THIS PLAN SET MUST NOT BE USED FOR CONSTRUCTION PURPOSES UNLESS IT IS APPROVED BY THE RI DEPARTMENT OF ENVIRONMENTAL MANAGEMENT. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM THE RI DEPARTMENT OF ENVIRONMENTAL MANAGEMENT AND OTHER AGENCIES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM THE RI DEPARTMENT OF ENVIRONMENTAL MANAGEMENT AND OTHER AGENCIES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM THE RI DEPARTMENT OF ENVIRONMENTAL MANAGEMENT AND OTHER AGENCIES.

NO.	DATE	DESCRIPTION	BY
1	05-18-2022	PLANNING SET	J.A.R.
2	05-18-2022	PROJECT COMMENTS	J.A.R.
3	05-18-2022	PROJECT SUBMISSION	J.A.R.
4	05-18-2022	DESIGNATION	J.A.R.

DESIGN BY: K.J.D.

RI DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM
APPROVED WITH CONDITIONS AS SPECIFIED IN THE LETTER OF APPROVAL
DATED: MAY 18 2023 FILE # 22-0115
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Nancy L. Freeman

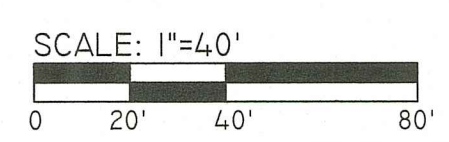
GRADING PLAN
GREENWICH GLEN CONDOMINIUMS
ASSESSOR'S PLAT 12, LOTS 130, 133, AND 764
WEST WARWICK, RHODE ISLAND

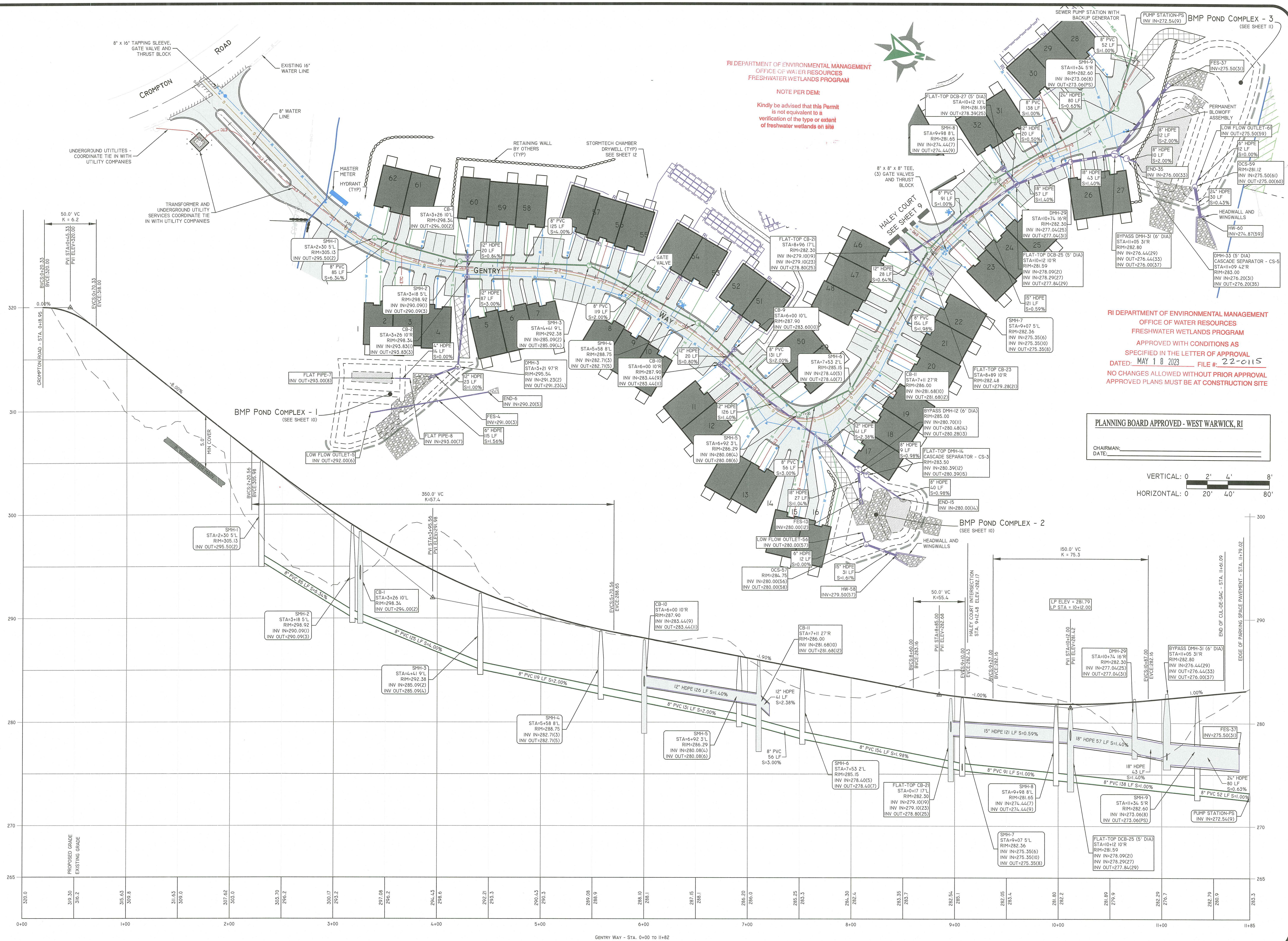
PREPARED FOR:
FRANKLIN COMPANIES
P.O. BOX 9402
PROVIDENCE, RHODE ISLAND 02940

PLANNING BOARD APPROVED - WEST WARWICK, RI

CHAIRMAN: _____
DATE: _____

DRAINAGE NOTE:
ALL PROPOSED DOWNSPOUTS NOT DISCHARGING DIRECTLY TO AN UNDERGROUND DRYWELL WILL DISCHARGE OVERLAND TO DRAINAGE SYSTEM IN ROADWAY.





RI DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM

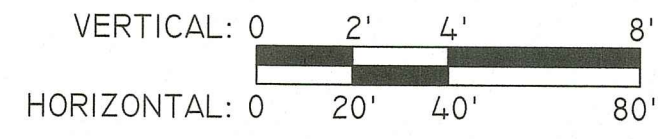
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PLANNING BOARD APPROVED - WEST WARWICK, RI

CHAIRMAN: _____
DATE: _____



Diprete Engineering
Two Stafford Court, Cranston, RI 02920
tel: 401-943-1000 fax: 401-661-6006 www.diprete-eng.com

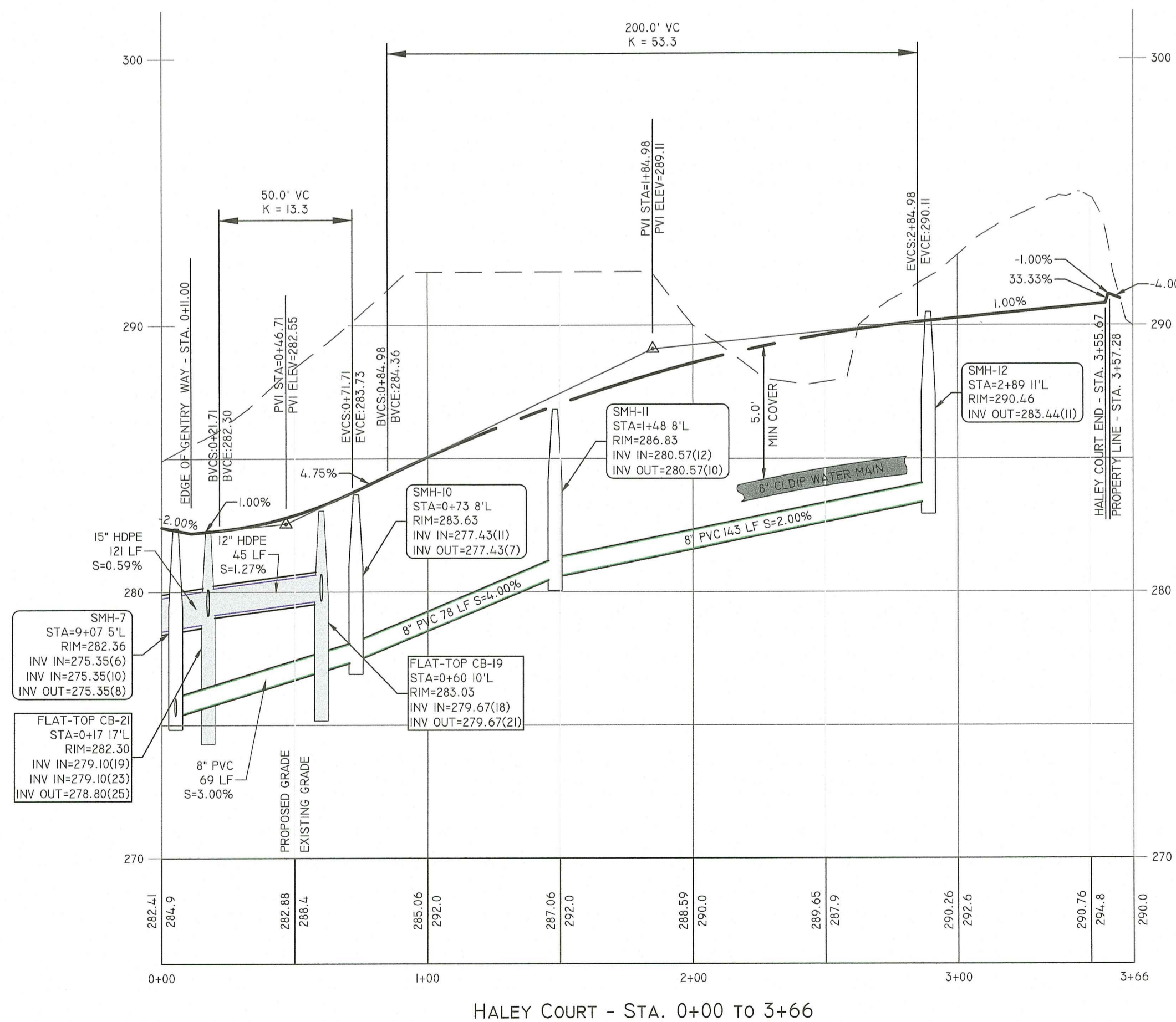
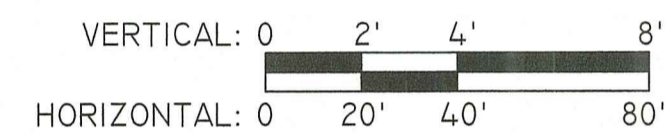
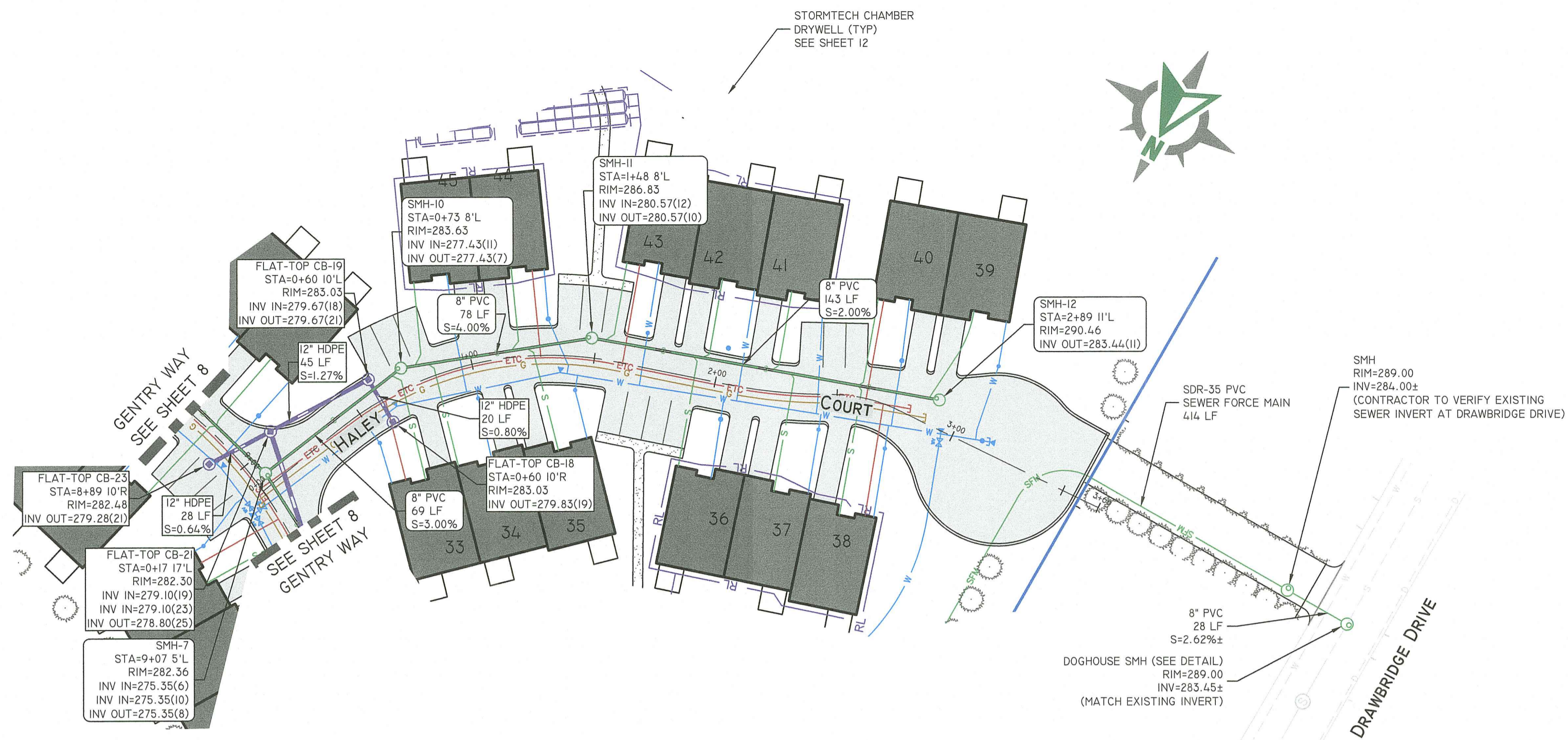
Boston • Providence • Newport

KEVIN DEMERS
REGISTERED PROFESSIONAL ENGINEER CIVIL
APR 30 2023
Office of Water Resources

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

DIPRETE ENGINEERING ONLY WARRANTS PLANS ON A DIPRETE ENGINEERING PROJECT. DIPRETE ENGINEERING DOES NOT WARRANT PLANS BY ANY OTHER PARTY. THE USER OF THESE PLANS IS RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS, REGULATIONS, AND REQUIREMENTS AND FOR OBTAINING ALL NECESSARY INFORMATION FROM THE LOCAL GOVERNMENT AND FOR OBTAINING ALL NECESSARY INFORMATION FROM THE LOCAL GOVERNMENT AND FOR OBTAINING ALL NECESSARY INFORMATION FROM THE LOCAL GOVERNMENT.

EXISTING UTILITIES SHOWN ON THIS PLAN ARE APPROXIMATE. ONLY A DIPRETE ENGINEERING ASSUMES NO RESPONSIBILITY FOR THE ACCURACY OF THESE UTILITIES. SEE UTILITY NOTES ON SHEETS 08-315, 08-316, 08-317, 08-318, 08-319, 08-320, 08-321, 08-322, 08-323, 08-324, 08-325, 08-326, 08-327, 08-328, 08-329, 08-330, 08-331, 08-332, 08-333, 08-334, 08-335, 08-336, 08-337, 08-338, 08-339, 08-340, 08-341, 08-342, 08-343, 08-344, 08-345, 08-346, 08-347, 08-348, 08-349, 08-350, 08-351, 08-352, 08-353, 08-354, 08-355, 08-356, 08-357, 08-358, 08-359, 08-360, 08-361, 08-362, 08-363, 08-364, 08-365, 08-366, 08-367, 08-368, 08-369, 08-370, 08-371, 08-372, 08-373, 08-374, 08-375, 08-376, 08-377, 08-378, 08-379, 08-380, 08-381, 08-382, 08-383, 08-384, 08-385, 08-386, 08-387, 08-388, 08-389, 08-390, 08-391, 08-392, 08-393, 08-394, 08-395, 08-396, 08-397, 08-398, 08-399, 08-400, 08-401, 08-402, 08-403, 08-404, 08-405, 08-406, 08-407, 08-408, 08-409, 08-410, 08-411, 08-412, 08-413, 08-414, 08-415, 08-416, 08-417, 08-418, 08-419, 08-420, 08-421, 08-422, 08-423, 08-424, 08-425, 08-426, 08-427, 08-428, 08-429, 08-430, 08-431, 08-432, 08-433, 08-434, 08-435, 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HALEY COURT - STA. 0+00 TO 3+66

RI DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM

NOTE PER DEM:
Kindly be advised that this Permit is not equivalent to a verification of the type or extent of freshwater wetlands on site

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

Boston • Providence • Newport

KEVIN DEMERS
REGISTERED PROFESSIONAL ENGINEER
CIVIL

APR 30 2023
Office of Water Resources

THIS PLAN SET MUST NOT BE USED FOR CONSTRUCTION PURPOSES UNLESS IT IS APPROVED BY THE RI DEPARTMENT OF ENVIRONMENTAL MANAGEMENT AND THE RI DEPARTMENT OF HEALTH AND HUMAN SERVICES. THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM THE RI DEPARTMENT OF ENVIRONMENTAL MANAGEMENT AND THE RI DEPARTMENT OF HEALTH AND HUMAN SERVICES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM THE RI DEPARTMENT OF ENVIRONMENTAL MANAGEMENT AND THE RI DEPARTMENT OF HEALTH AND HUMAN SERVICES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM THE RI DEPARTMENT OF ENVIRONMENTAL MANAGEMENT AND THE RI DEPARTMENT OF HEALTH AND HUMAN SERVICES.

NO.	DATE	DESCRIPTION	BY
1	02-18-2022	PLANNING SET	J.A.R.
2	02-22-2023	PERMIT COMMENTS	J.A.R.
3	03-18-2023	PERMIT SUBMISSION	J.A.R.
4			BT

DESIGN BY: K.J.D.

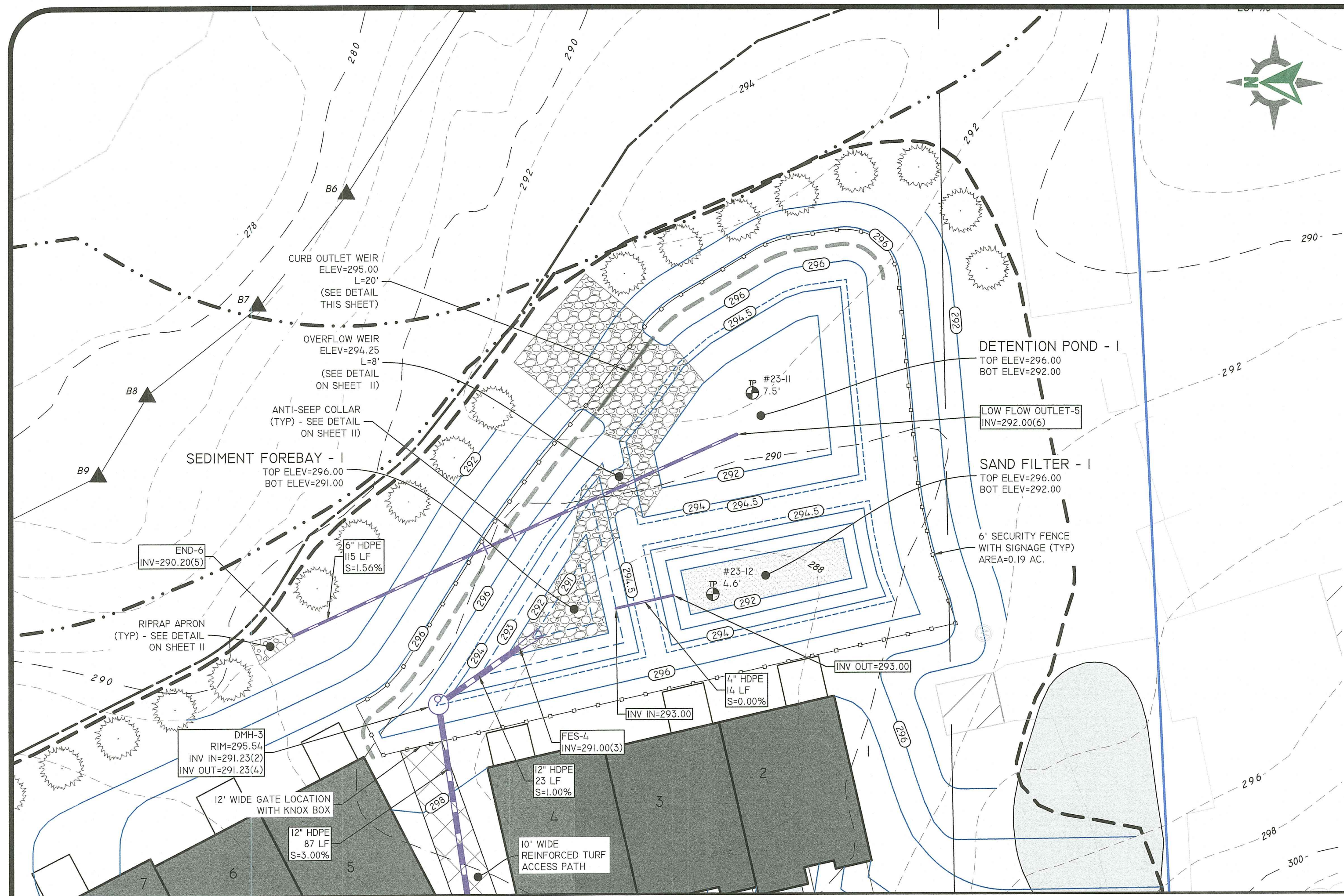
RI DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM
APPROVED WITH CONDITIONS AS SPECIFIED IN THE LETTER OF APPROVAL
DATED: MAY 18 2023 FILE #: 22-0115
NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL
APPROVED PLANS MUST BE AT CONSTRUCTION SITE

Andy L. Fleeman

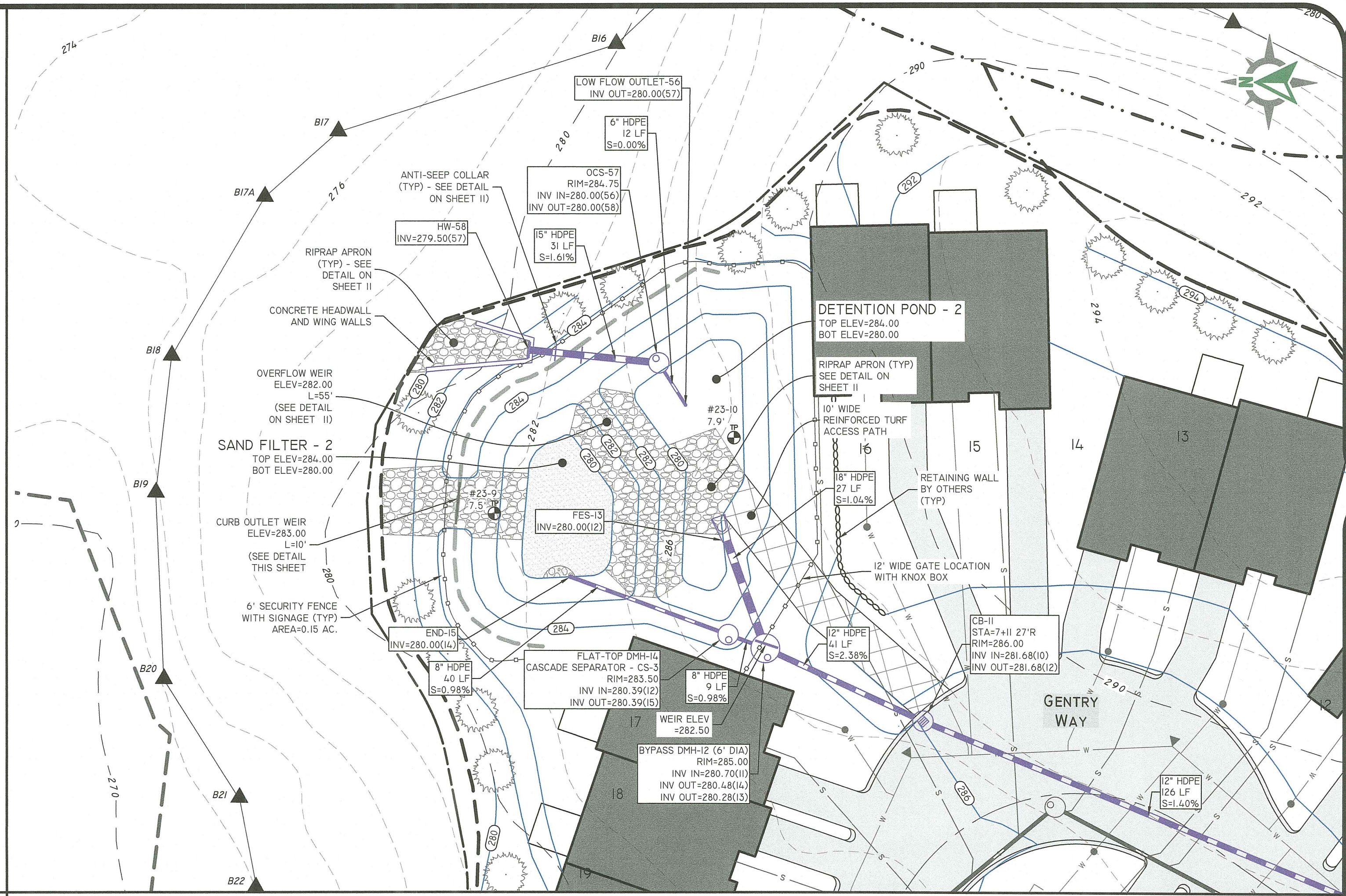
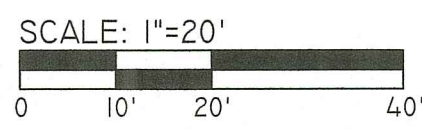
PLANNING BOARD APPROVED - WEST WARWICK, RI
CHAIRMAN: _____
DATE: _____

PLAN AND PROFILE - 2
GREENWICH GLEN CONDOMINIUMS
ASSESSOR'S PLAT 12 LOTS 130, 133, AND 764
WEST WARWICK, RHODE ISLAND

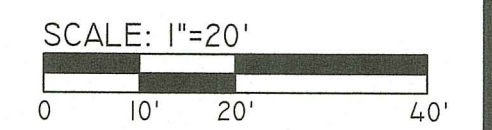
PREPARED FOR:
FRANKLIN COMPANIES
P.O. BOX 9402
PROVIDENCE, RHODE ISLAND 02914



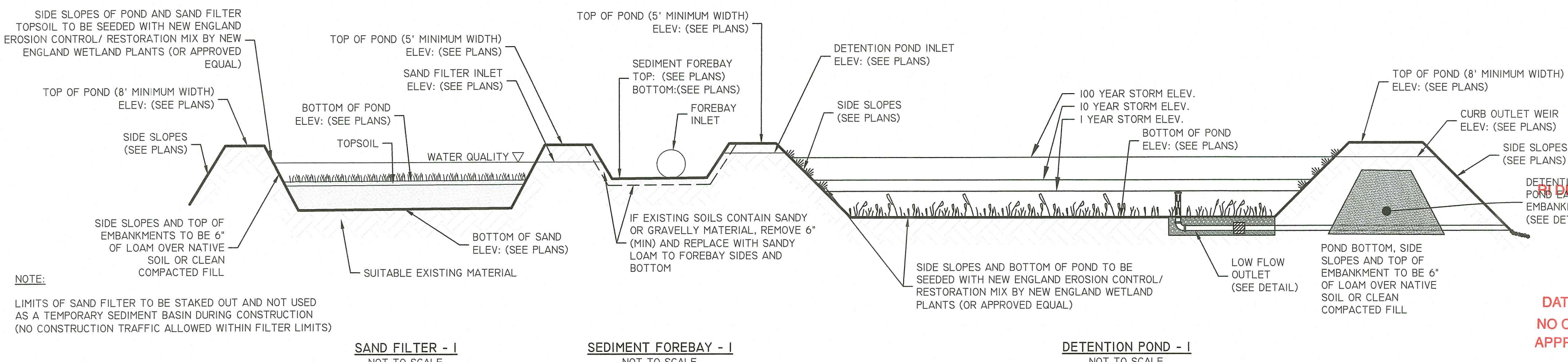
BMP Pond Complex - 1



BMP Pond Complex - 2



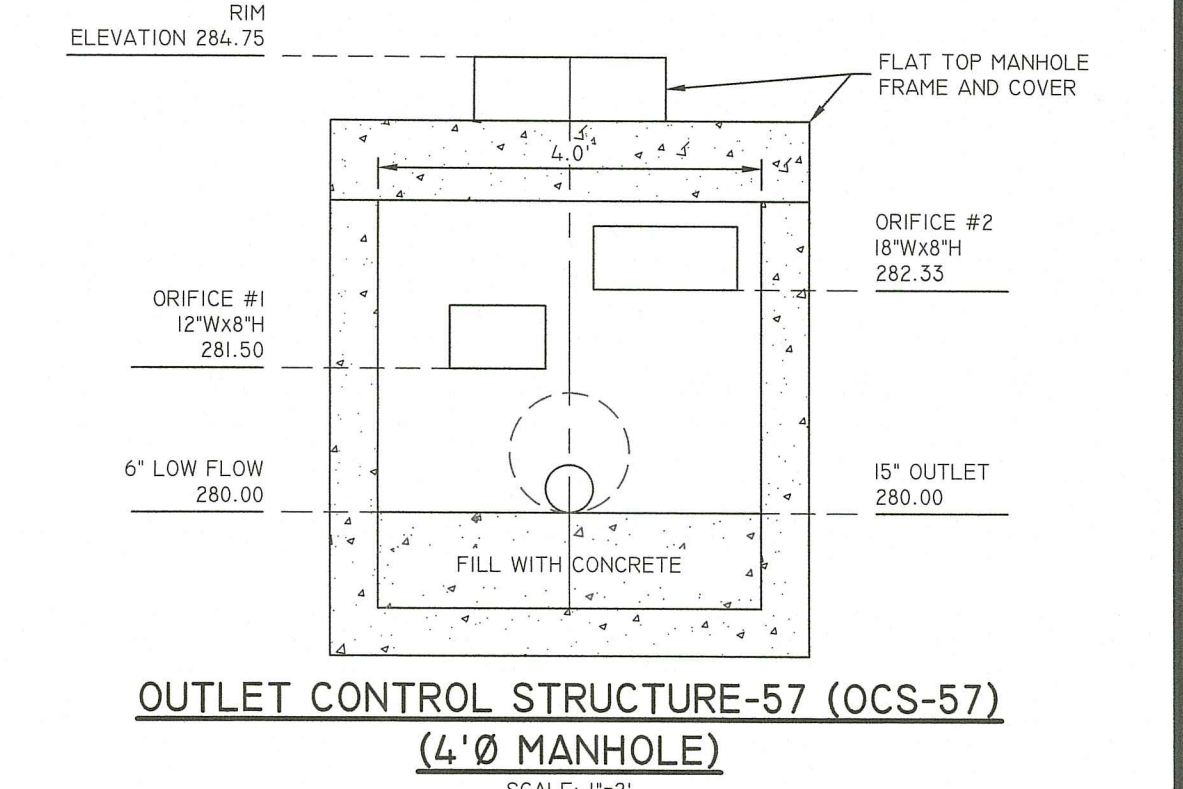
DESCRIPTION	SNDF-1
TOP OF POND ELEVATION	296.00
100 YEAR STORM ELEVATION	294.99
10 YEAR STORM ELEVATION	294.30
1 YEAR STORM ELEVATION	293.99
WQ STORM ELEVATION	293.34
BOTTOM OF POND ELEVATION	292.00
TOP SOIL DEPTH	291.50
SAND DEPTH	4.00'
BOTTOM OF SAND ELEVATION	287.50
SEASONAL HIGH GWT ELEVATION	283.40
SOIL EVALUATION	TH-23-12



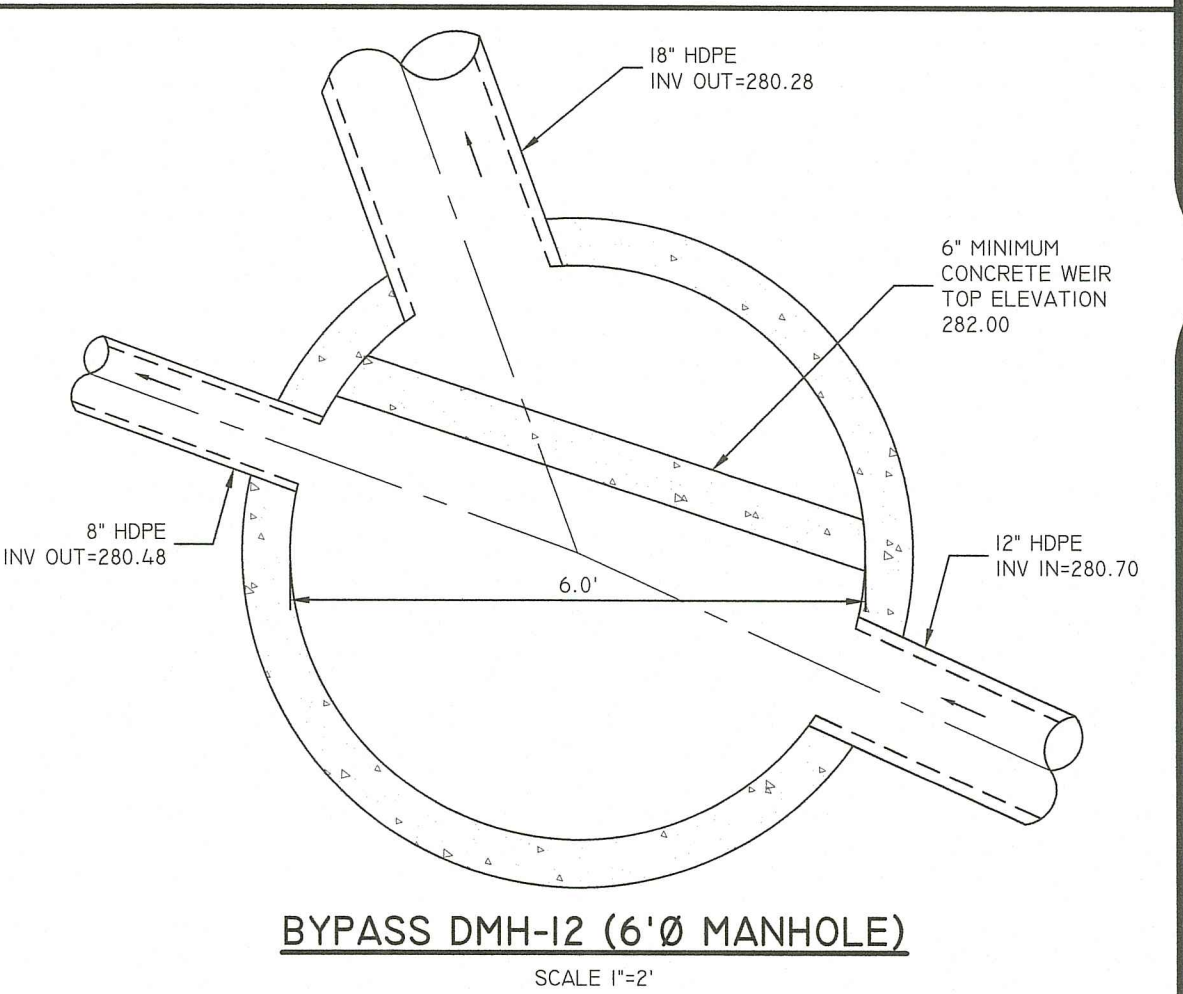
BMP Pond Complex - 1
NOT TO SCALE

DESCRIPTION	DP-1
TOP OF POND ELEVATION	296.00
100 YEAR STORM ELEVATION	295.12
10 YEAR STORM ELEVATION	292.90
1 YEAR STORM ELEVATION	292.01
BOTTOM OF POND ELEVATION	292.00
SEASONAL HIGH GWT ELEVATION	284.50
SOIL EVALUATION	TH-23-12

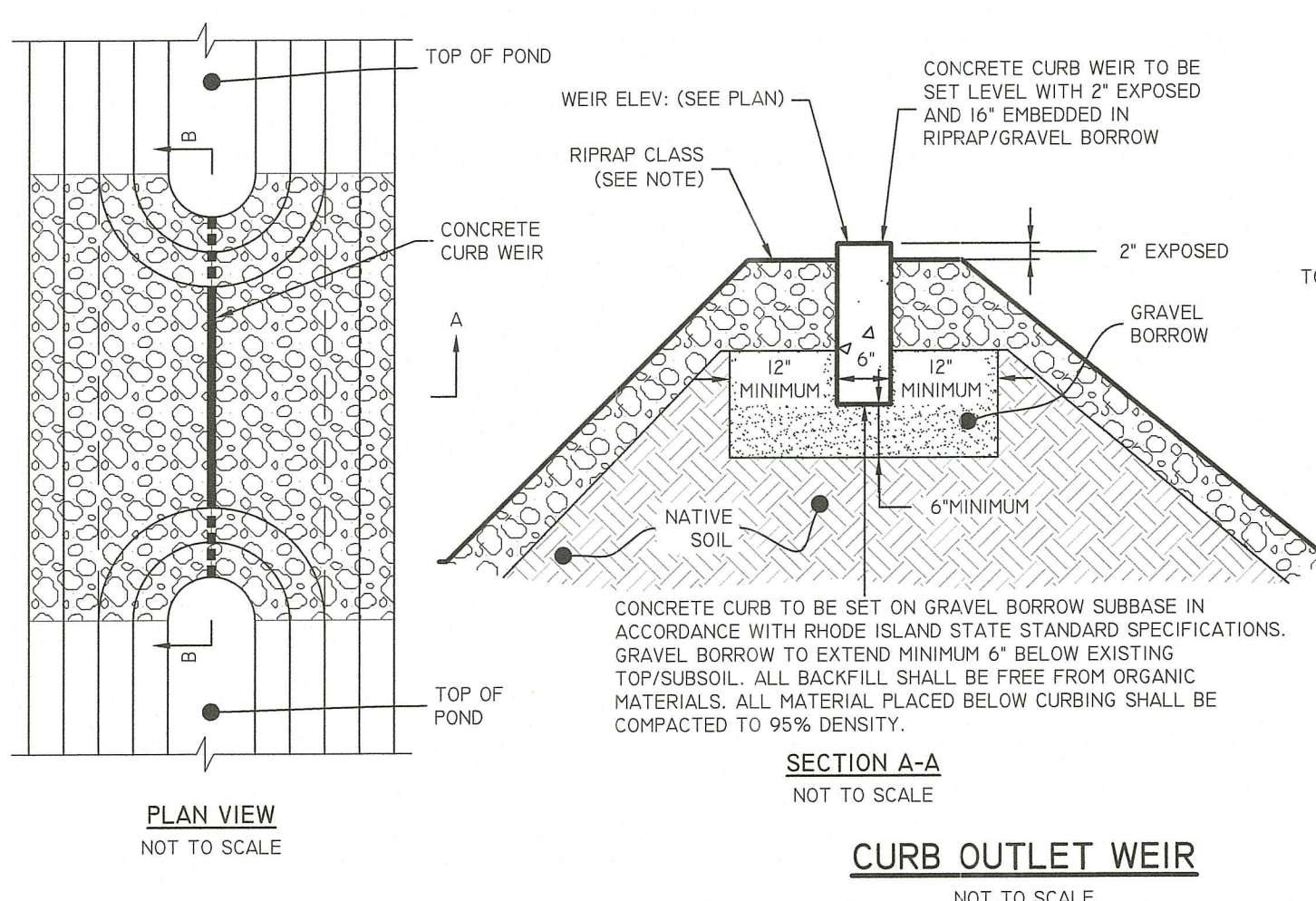
RI DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM
APPROVED WITH CONDITIONS AS SPECIFIED IN THE LETTER OF APPROVAL
DATED: MAY 18 2023 FILE # 22-0115
NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL
APPROVED PLANS MUST BE AT CONSTRUCTION SITE
Nancy L. Freeman



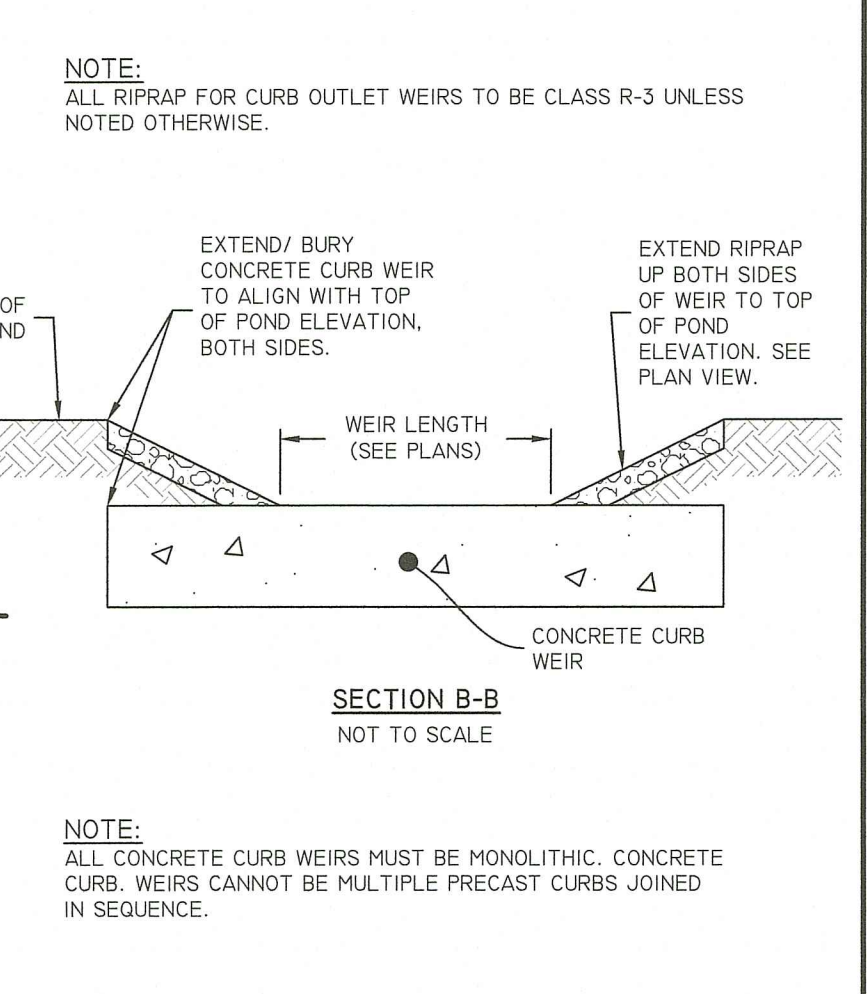
OUTLET CONTROL STRUCTURE-57 (OCS-57)
(4' Ø MANHOLE)
SCALE: 1"=2'



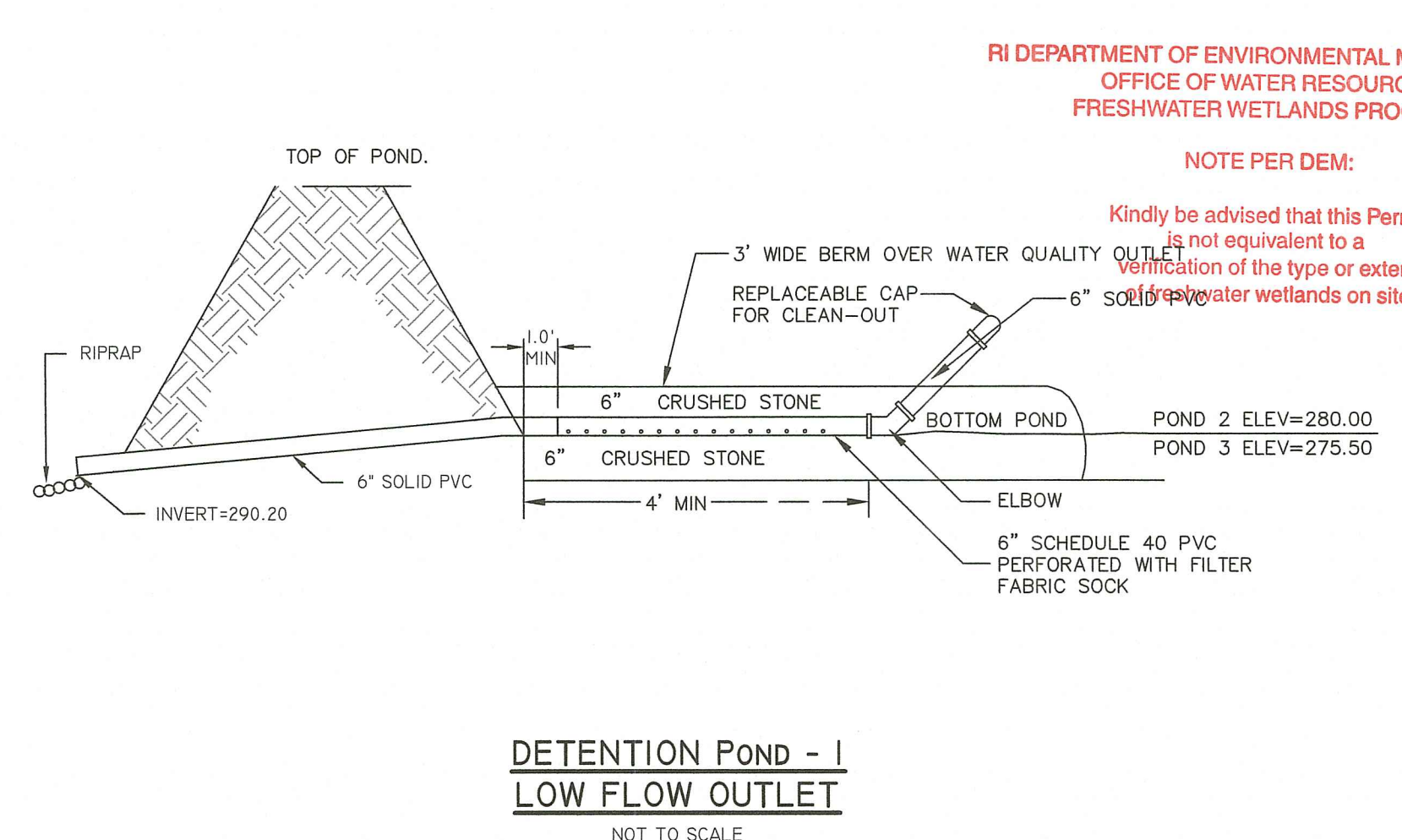
BYPASS DMH-12 (6' Ø MANHOLE)
SCALE: 1"=2'



SECTION A-A
CURB OUTLET WEIR
NOT TO SCALE



SECTION B-B
NOT TO SCALE



DETENTION POND - 1
LOW FLOW OUTLET
NOT TO SCALE

Diprete Engineering
Two Stafford Court Cranston, RI 02920
tel 401-943-1000 fax 401-654-6006 www.diprete-eng.com

Kevin Demers
REGISTERED PROFESSIONAL ENGINEER
CIVIL

APR 25 2023
Office of Water Resources

THIS PLAN SET MUST NOT BE USED FOR CONSTRUCTION PURPOSES UNLESS IT IS APPROVED BY THE RI DEPARTMENT OF ENVIRONMENTAL MANAGEMENT, OFFICE OF WATER RESOURCES, FRESHWATER WETLANDS PROGRAM. THE CONTRACTOR IS RESPONSIBLE FOR ALL OF THE NECESSARY PRELIMINARY SURVEYING, ENGINEERING, AND CONSTRUCTION DETAILS. THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS. THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS. THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS.

DESIGN BY: K.J.D.
DRAWN BY: J.A.R.
CHECKED BY: J.A.R.
DATE: 05-05-2023

BMP DETAILS - 1
GREENWICH GLEN CONDOMINIUMS
ASSESSOR'S PLAT 12 LOTS 130, 133, AND 764
WEST WARWICK, RHODE ISLAND

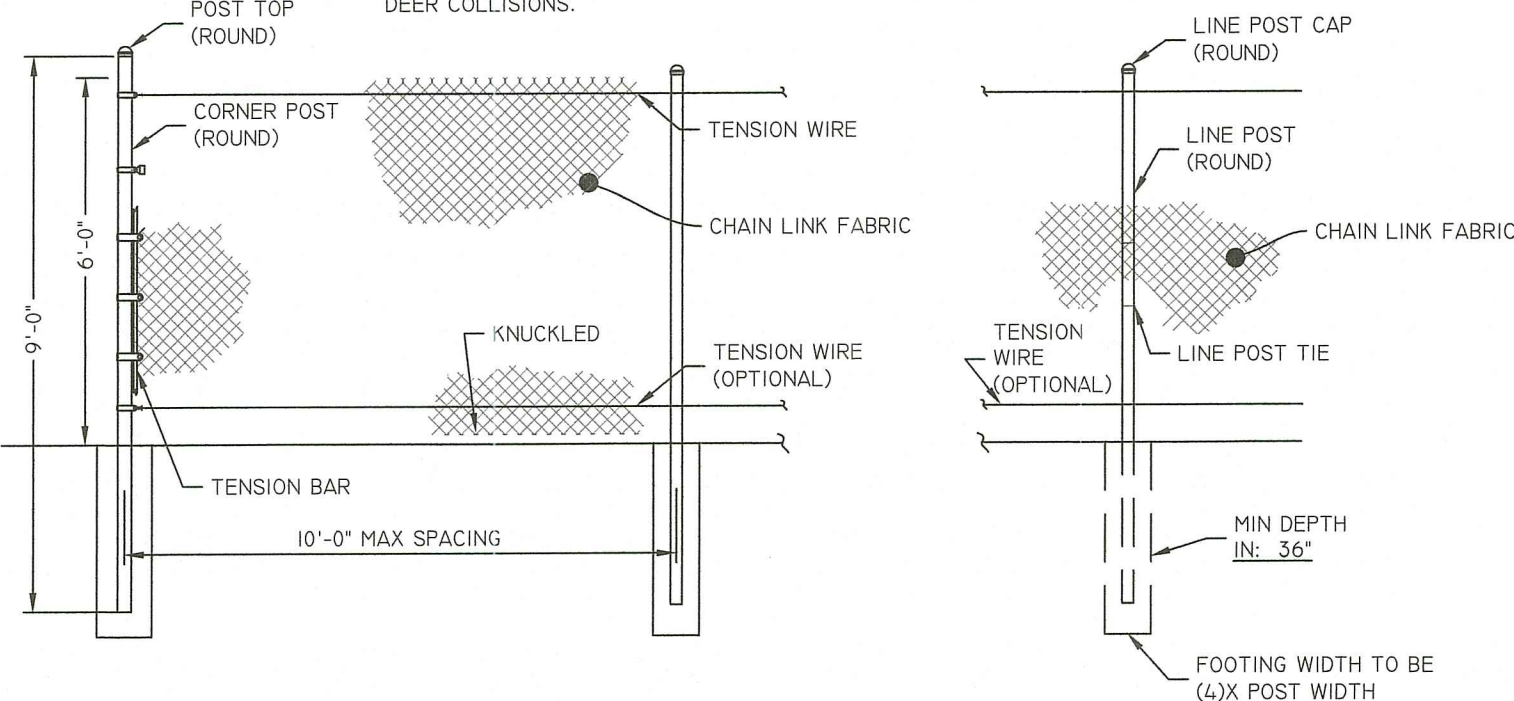
PREPARED FOR:
FRANKLIN COMPANIES
P.O. BOX 9402
PROVIDENCE, RHODE ISLAND 02940

PLANNING BOARD APPROVED - WEST WARWICK, RI
CHAIRMAN: _____
DATE: _____

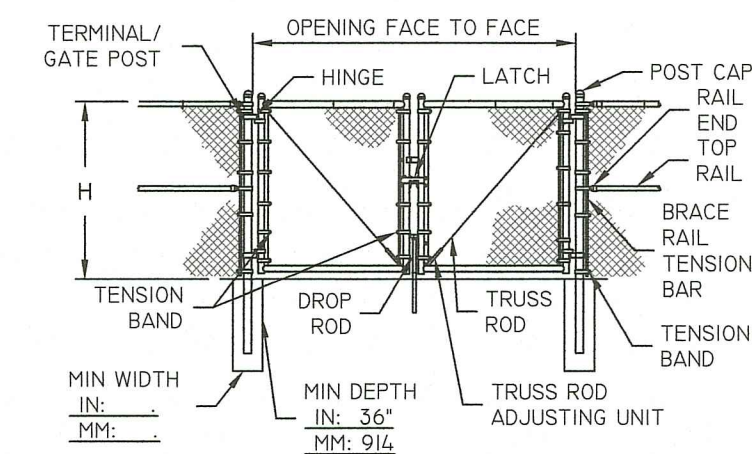
SHEET 10 OF 16

NOTES:

- CONTRACTOR SHALL LEAVE AN 8-INCH GAP UNDER THE FENCE TO ALLOW FOR PASSAGE OF SMALL ANIMALS.
- PERMANENT COLORED FLAGGING SHALL BE ATTACHED TO THE FENCE TO DETER DEER COLLISIONS.

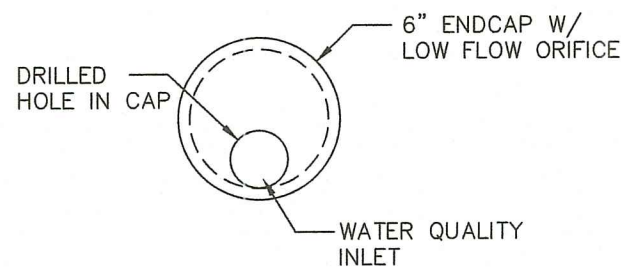


TYPICAL FENCE DETAIL
NOT TO SCALE



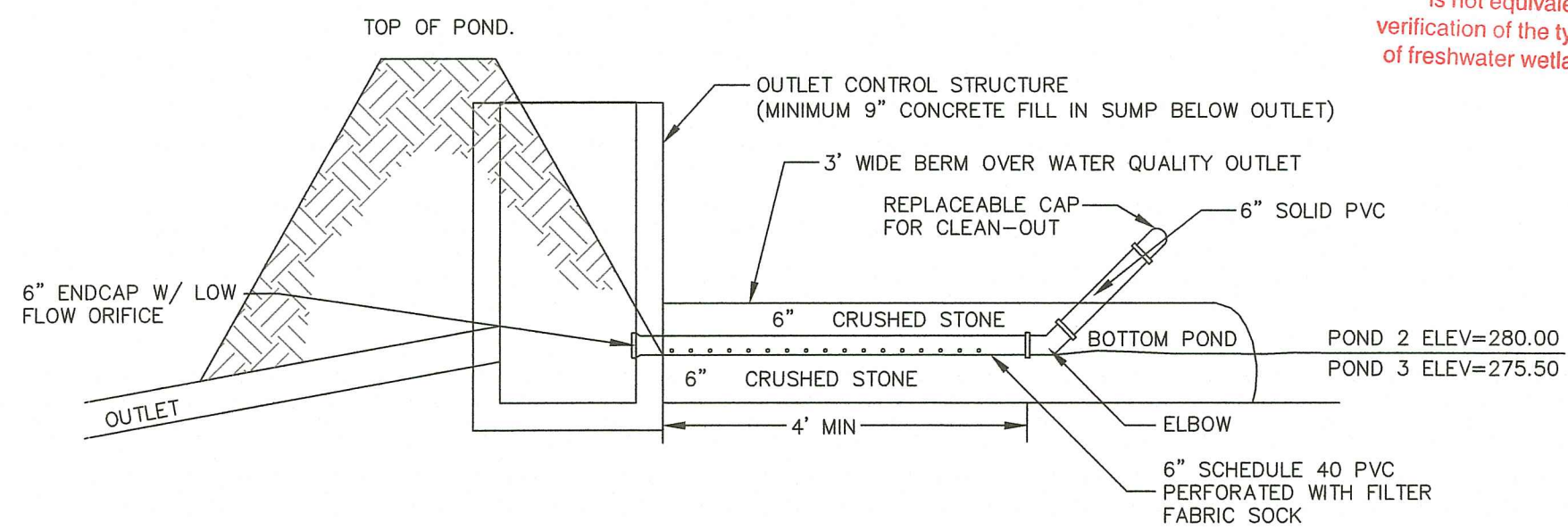
DOUBLE SWING GATE 12' OPENING
NOT TO SCALE

- NOTE:**
- METRIC DIMENSIONS ARE NOMINAL EQUIVALENTS TO U.S. DIMENSIONS.
 - SPECIFICATIONS SHOWN CAN BE CHANGED BY THE MANUFACTURER ONLY.
 - FOOTING WIDTH TO BE (4)X POST WIDTH.



LOCATION	INVERT	DIAMETER
POND - 2	280.00	2.00"
POND - 3	275.50	2.00"

Low Flow Cap Detail
NOT TO SCALE



DETENTION PONDS - 2 AND 3
LOW-FLOW OUTLET DETAIL
NOT TO SCALE

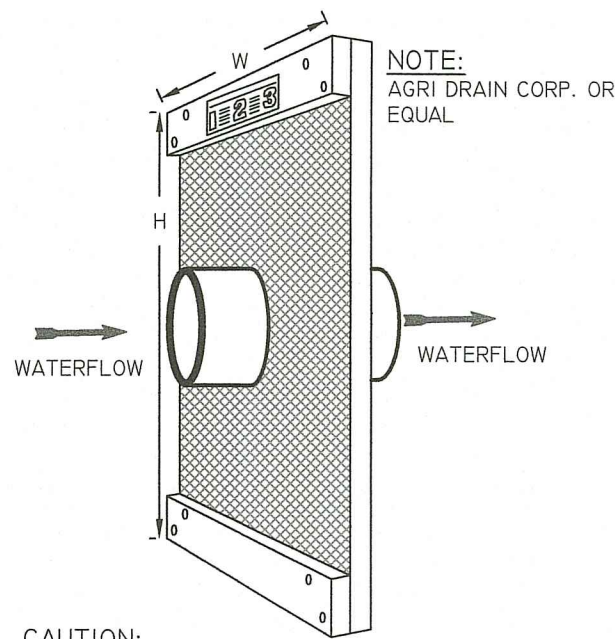
BERM HEIGHT (FT)	TOP WIDTH OF CORE - B (FT)
0-6.5	8.2
6.6-9.8	9.2
9.9-13.1	9.8
13.2-16.4	10.8
16.5-19.7	11.5

- NOTES:**
- IMPERVIOUS SOIL CORE TO BE PROVIDED FOR ALL POND EMBANKMENTS.
 - IMPERVIOUS SOIL CORE TO BE CONSTRUCTED OF A MATERIAL WITH A MINIMUM OF 55% PASSING THE #200 SIEVE AND A MAXIMUM PERMEABILITY OF 0.00005 CM/S.
 - WELL DRAINED SHELL TO BE CONSTRUCTED OF GRAVEL AND/OR SAND WITH LESS THAN 5% PASSING THE #200 SIEVE.
 - MINIMUM DEPTH OF CUTOFF TRENCH (H) SHALL BE 3/4 OF THE TOTAL BERM HEIGHT.
 - THE IMPERVIOUS CORE AT A MINIMUM SHALL EXTEND UP BOTH ABUTMENTS TO THE EMERGENCY SPILLWAY ELEVATION.
 - THE MINIMUM BOTTOM WIDTH (A) SHALL BE 5'-8", AND WIDE ENOUGH TO PERMIT OPERATION OF COMPACTION EQUIPMENT.
 - SIDE SLOPES OF THE TRENCH SHALL BE NO STEEPER THAN 1:1.
 - IF BEDROCK IS ENCOUNTERED BELOW THE DAM THE CUT OFF TRENCH CAN BE REDUCED TO 1'X1' (MAX).
 - CONTRACTION REQUIREMENTS FOR THE SHELL AND IMPERVIOUS CORE TO BE 95% OF THE MODIFIED PROCTOR PER ASTM D1557. ALL FILL TO BE PLACED IN LIFTS NOT EXCEEDING 12".
 - SIDE SLOPE OF POND EMBANKMENT TO BE 2:1 MAXIMUM. IF SIDE SLOPES ARE STEEPER THAN 3:1, SLOPE PROTECTION MUST BE UTILIZED ON POND EMBANKMENT. THIS INCLUDES, BUT NOT LIMITED TO, RIPRAP AND EROSION CONTROL MATS.
 - THE IMPERVIOUS CORE SHALL BE KEPT FREE FROM STANDING WATER DURING THE BACKFILL OPERATION.
 - ALL EMBANKMENT INSTALLATIONS TO BE SUPERVISED BY A GEOTECHNICAL ENGINEER.
 - ANY PROPOSED DEVIATIONS FROM THIS DETAIL MUST BE DESIGNED BY A GEOTECHNICAL ENGINEER AND SUBMITTED TO THE SITE ENGINEER (AND AHJ WHERE REQUIRED) FOR REVIEW PRIOR TO CONSTRUCTION.

POND EARTHEN EMBANKMENT
NOT TO SCALE

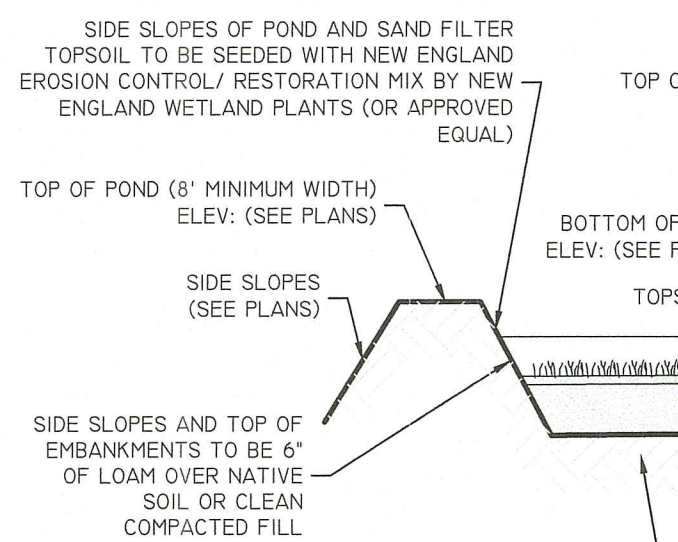
- INSTALLATION NOTES:**
- UNROLL THE ANTI-SEEP COLLAR AND ALIGN THE BOARDS TO FORM A SQUARE. ATTACH METAL BRACKETS TO THE CORNER OF THE BOARDS WITH THE SCREWS PROVIDED. ATTACH THE RUBBER TO THE FRAME WITH THE NAILS PROVIDED.
 - CUT A ROUND HOLE IN THE CENTER OF THE RUBBER THAT IS SMALLER THAN THE PIPE SIZE (APPROX. 33% SMALLER). THIS WILL ALLOW THE RUBBER TO STRETCH OVER THE PIPE WHEN THE ANTI-SEEP IS INSTALLED ON THE PIPE. THIS WILL PROVIDE A TIGHT SEAL BETWEEN THE PIPE AND THE ANTI-SEEP COLLAR. NOTE: CUTTING AN "X" OR SLIT WILL CAUSE THE RUBBER TO TEAR.
 - SLIP THE PIPE THROUGH THE ANTI-SEEP COLLAR. INSPECT THE SEAL BETWEEN THE PIPE AND THE ANTI-SEEP COLLAR. CAREFULLY BACKFILL AND COMPACT WITH SUITABLE SOIL.

ANTI-SEEP COLLAR
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.

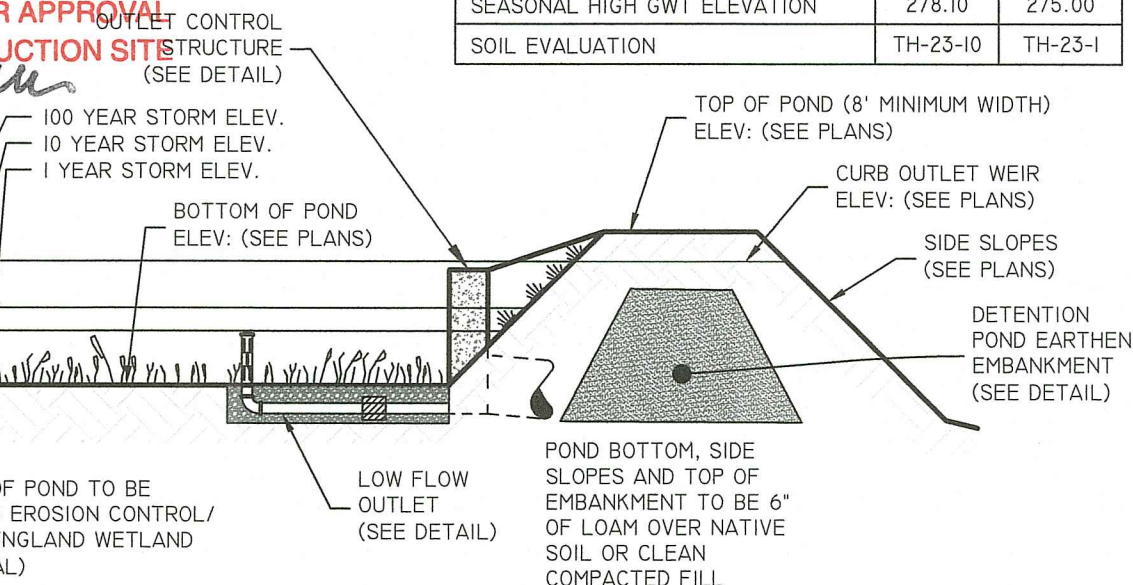
DESCRIPTION	SDF-2	SDF-3
TOP OF POND ELEVATION	284.00	280.00
100 YEAR STORM ELEVATION	282.92	278.44
10 YEAR STORM ELEVATION	282.03	277.50
1 YEAR STORM ELEVATION	281.86	276.89
WG STORM ELEVATION	281.46	276.50
BOTTOM OF POND ELEVATION	280.00	276.00
TOP SOIL DEPTH	279.50	275.50
SAND DEPTH	3.00"	3.00"
BOTTOM OF SAND ELEVATION	276.50	272.50
SEASONAL HIGH GWT ELEVATION	274.50	270.40
SOIL EVALUATION	TH-23-9	TH-23-2



SAND FILTER TYPICAL SECTION

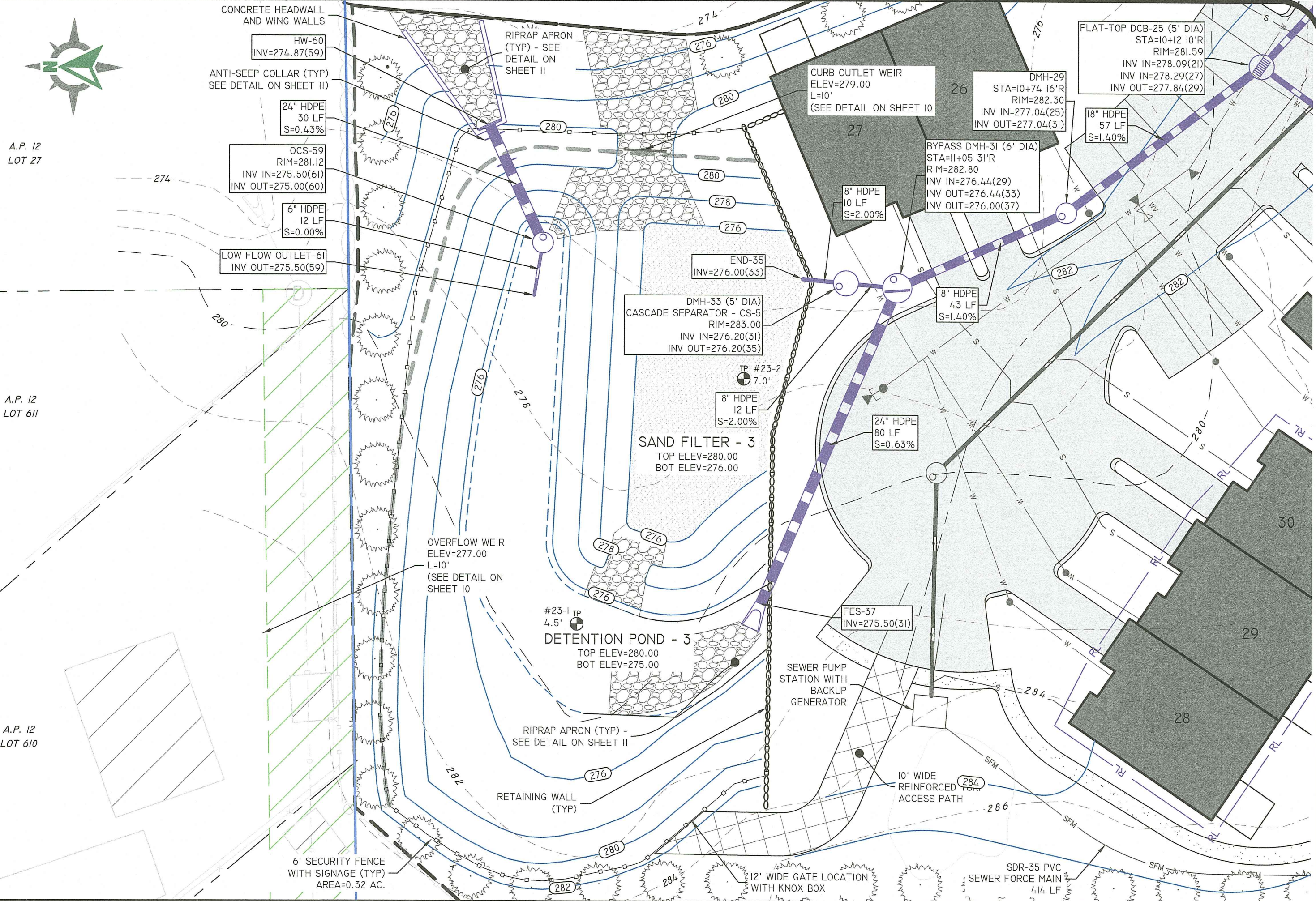
RI DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM
APPROVED WITH CONDITIONS AS SPECIFIED IN THE LETTER OF APPROVAL DATED: MAY 18 2023 FILE # 22-0115
NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL
APPROVED PLANS MUST BE AT CONSTRUCTION SITE

DESCRIPTION	DP-2	DP-3
TOP OF POND ELEVATION	284.00	280.00
100 YEAR STORM ELEVATION	283.01	278.85
10 YEAR STORM ELEVATION	281.95	277.29
1 YEAR STORM ELEVATION	280.00	275.50
BOTTOM OF POND ELEVATION	280.00	275.50
SEASONAL HIGH GWT ELEVATION	278.10	275.00
SOIL EVALUATION	TH-23-10	TH-23-1

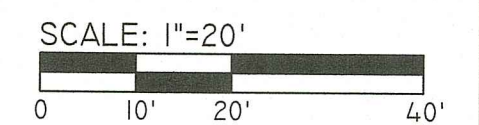


DETENTION POND
NOT TO SCALE

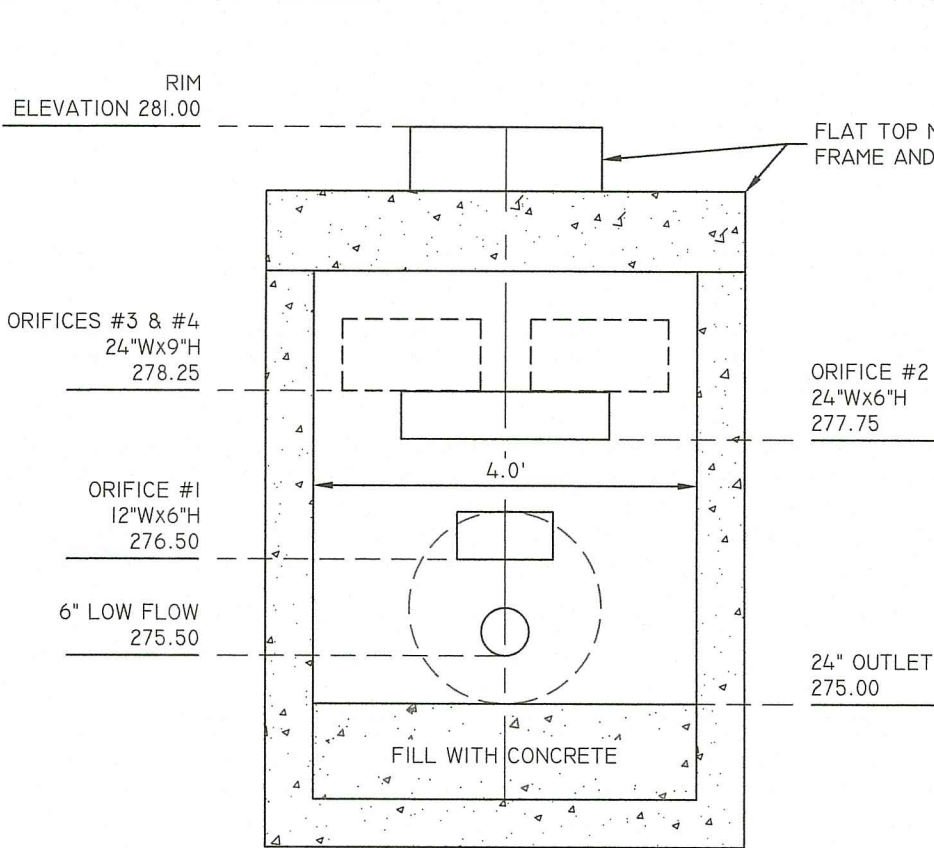
BMP POND COMPLEXES 2 & 3
NOT TO SCALE



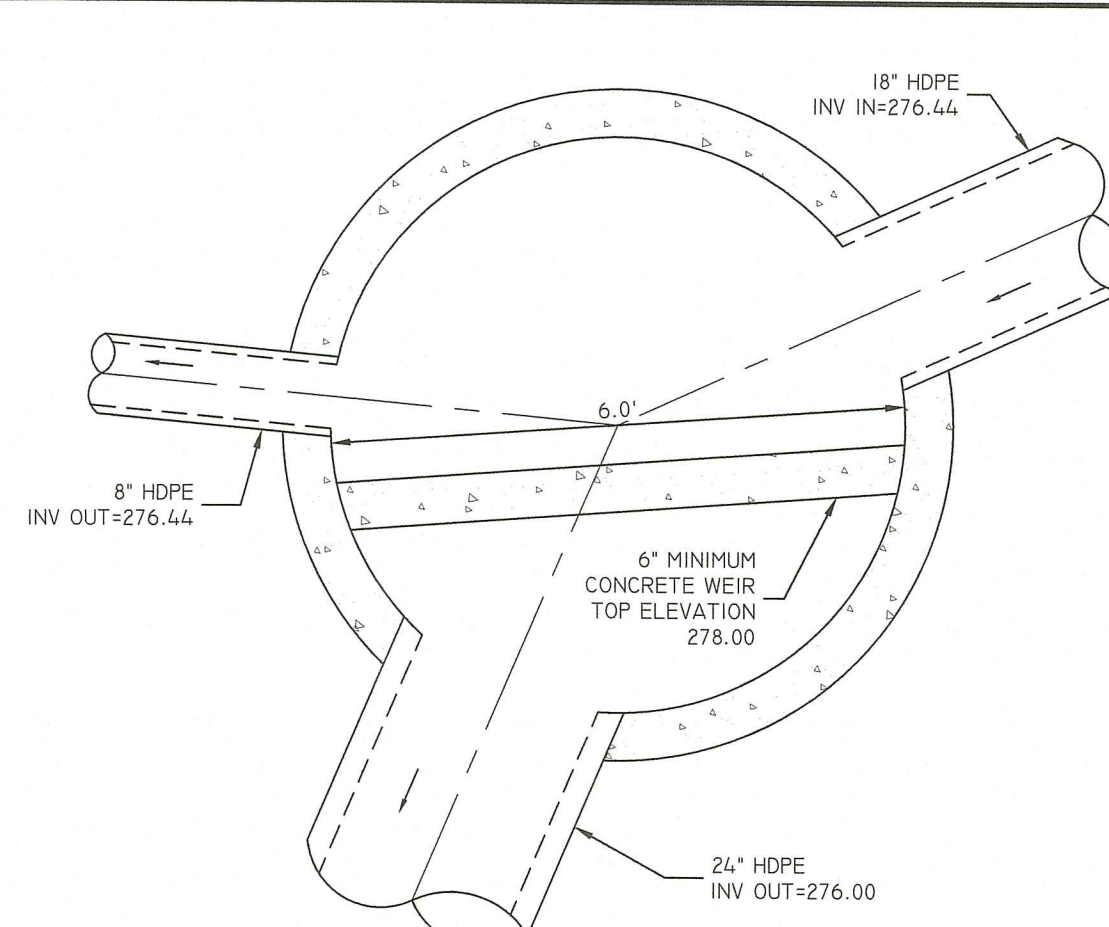
BMP Pond Complex - 3



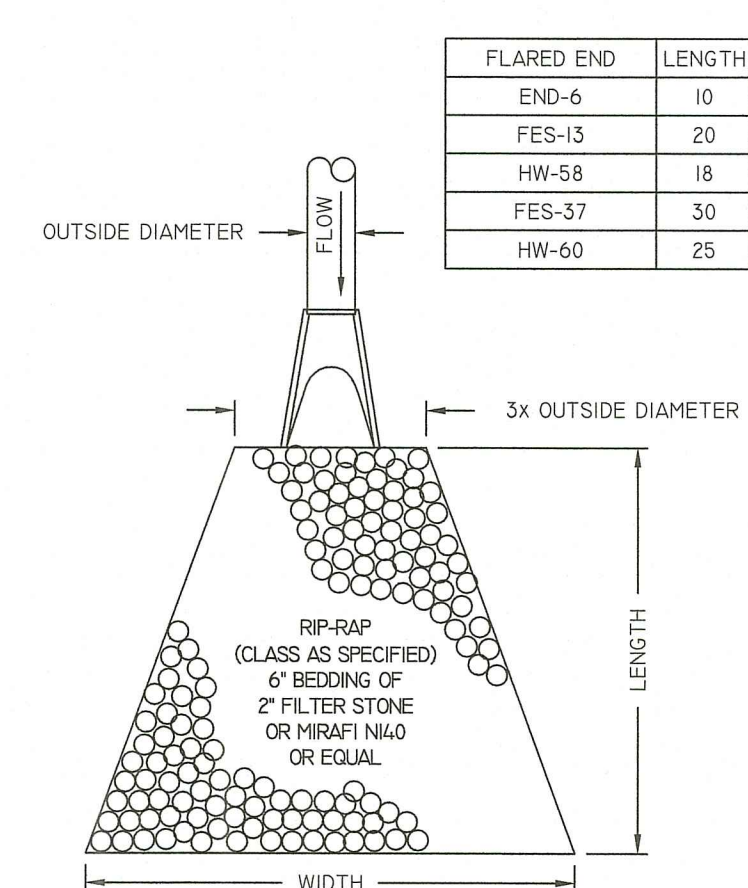
LOCATION	WIDTH	HEIGHT	QUANTITY
DETENTION POND - 1	5.00	5.00	2
DETENTION POND - 2	4.00	4.00	2
DETENTION POND - 3	5.00	5.00	2



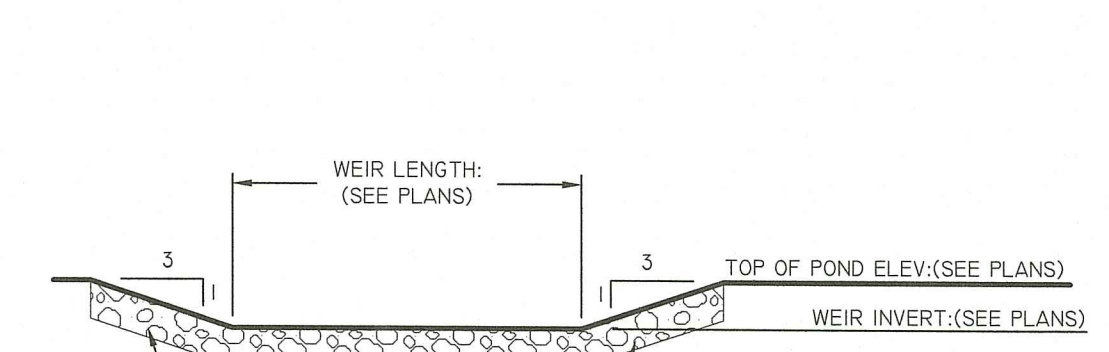
OUTLET CONTROL STRUCTURE-59 (4' MANHOLE)
SCALE: 1"=2'



BYPASS DMH-31 (6' MANHOLE)
SCALE: 1"=2'



RIP-RAP APRON / FE / HW DETAIL
NOT TO SCALE



OVERFLOW WEIR
NOT TO SCALE

PLANNING BOARD APPROVED - WEST WARWICK, RI

CHAIRMAN: _____
DATE: _____

Diprete Engineering
Two Stafford Court Cranston, RI 02920
tel 401-943-1000 fax 401-654-6006 www.diprete-eng.com
Boston • Providence • Newport

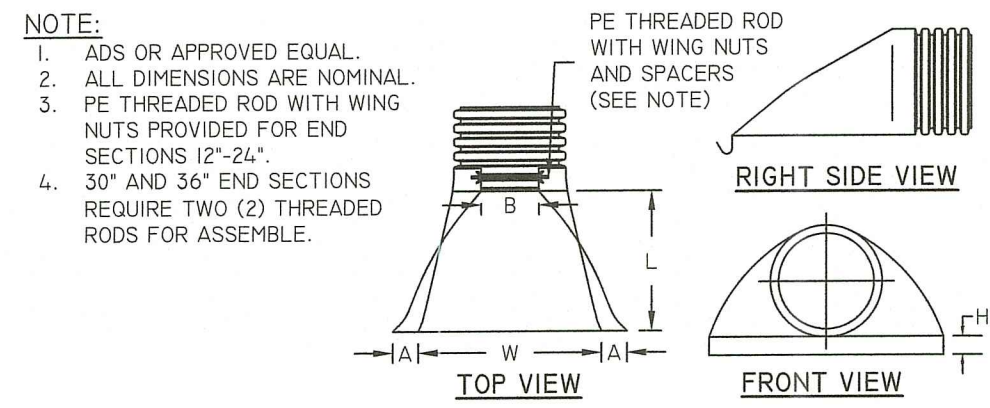
KEVIN DEMERS
REGISTERED PROFESSIONAL ENGINEER CIVIL
APR 26 2023
Office of Water Resources

THIS PLAN SET MUST NOT BE USED FOR CONSTRUCTION PURPOSES UNLESS IT IS APPROVED BY THE RI DEPARTMENT OF ENVIRONMENTAL MANAGEMENT AND THE RI DEPARTMENT OF HEALTH AND HUMAN SERVICES. THE CONTRACTOR IS RESPONSIBLE FOR ALL OF THE NECESSARY PERMITS, SAFETY PRECAUTIONS AND REQUIREMENTS AND OSHA DESIGN. EXISTING UTILITIES SHOWN ON THIS PLAN ARE APPROXIMATE AND DAMAGES INCURRED DUE TO LOCATION OF EXISTING UTILITIES SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. SEE UTILITY NOTE ON SHEET 3.

DESIGN BY: K.J.D.
DRAWN BY: J.A.R.

NO.	DATE	DESCRIPTION
1	04-20-2023	PLANNING BOARD APPROVAL
2	05-18-2023	RI DEPARTMENT OF ENVIRONMENTAL MANAGEMENT APPROVAL

BMP DETAILS - 2
GREENWICH GLEN CONDOMINIUMS
ASSESSOR'S PLAT 12 LOTS 130, 133, AND 764
WEST WARWICK, RHODE ISLAND
PREPARED FOR: FRANKLIN COMPANIES
PROVIDENCE, RHODE ISLAND 02940
SHEET 11 OF 16

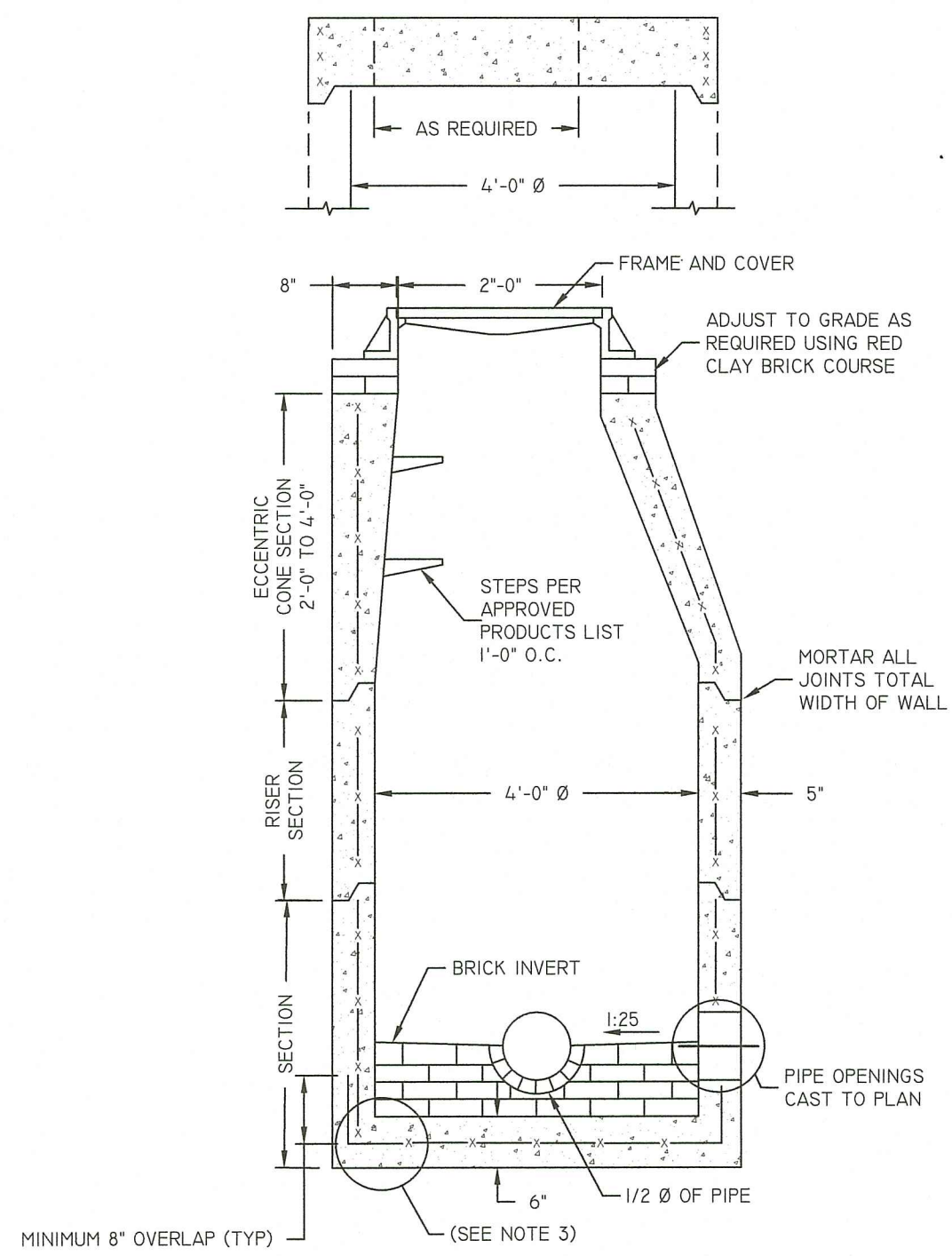


PART #	PIPE SIZE	A	B (MAX)	H	L	W
120NP	12 IN (300 MM)	6.50 IN (165 MM)	10 IN (254 MM)	6.50 IN (165 MM)	25 IN (635 MM)	29 IN (737 MM)
150NP	15 IN (375 MM)	6.50 IN (165 MM)	10 IN (254 MM)	6.50 IN (165 MM)	25 IN (635 MM)	29 IN (737 MM)
180 NP	18 IN (450 MM)	7.50 IN (191 MM)	15 IN (381 MM)	6.50 IN (165 MM)	32 IN (813 MM)	35 IN (889 MM)
240NP	24 IN (600 MM)	7.50 IN (191 MM)	18 IN (457 MM)	6.50 IN (165 MM)	36 IN (914 MM)	45 IN (1143 MM)
300NP	30 IN (750 MM)	7.50 IN (191 MM)	12 IN (305 MM)	8.40 IN (213 MM)	58 IN (1473 MM)	63 IN (1600 MM)
360NP	36 IN (900 MM)	7.50 IN (191 MM)	25 IN (635 MM)	8.40 IN (213 MM)	58 IN (1473 MM)	63 IN (1600 MM)

HDPE FLARED END SECTION

NOT TO SCALE

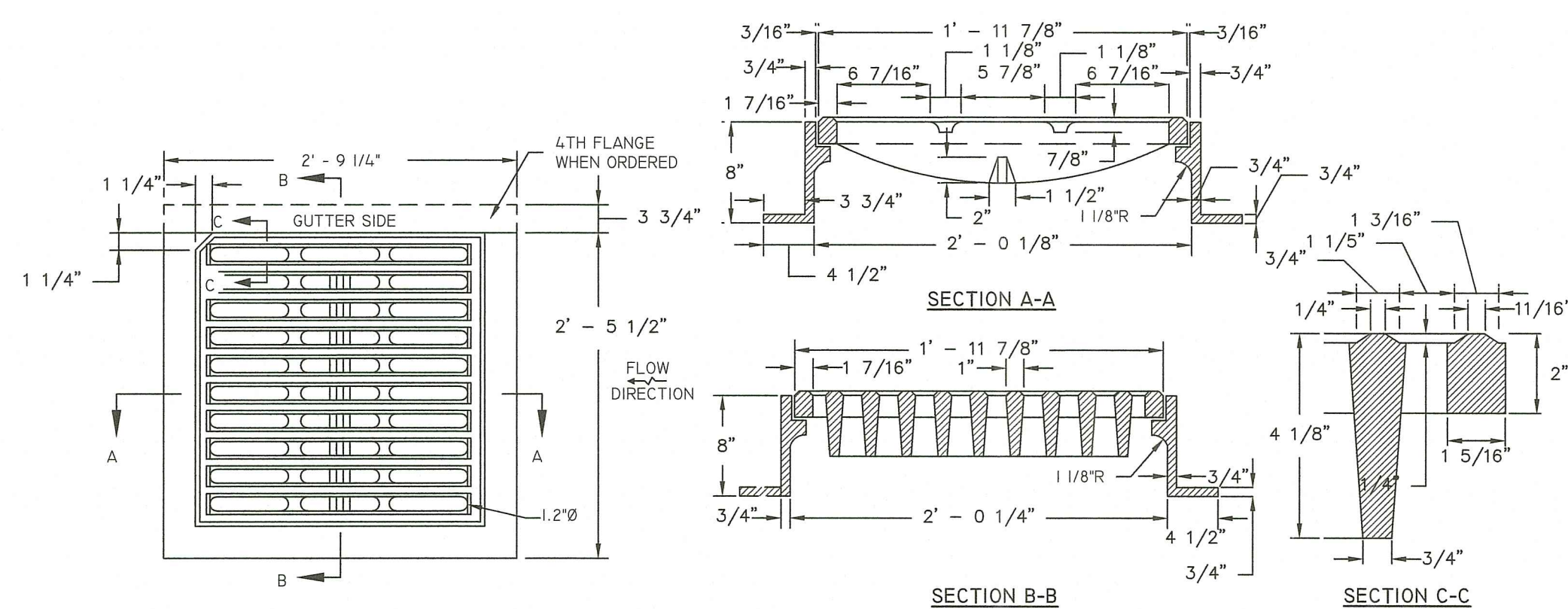
ALTERNATE TOP LOADING (SEE NOTES 7 AND 8)



- NOTES:**
- SHALL BE IN ACCORDANCE WITH SECTION 702 OF THE R.I. STANDARD SPECIFICATIONS.
 - CIRCUMFERENTIAL STEEL REINFORCEMENT REQUIRED = 0.12 SQUARE INCH/LIN. FOOT MINIMUM.
 - STEEL REINFORCEMENT FOR BASE SECTION BOTTOM SHALL BE A MINIMUM OF 0.12 SQUARE INCH/LIN. FOOT (BOTH WAYS).
 - ONE POUR MONOLITHIC BASE SECTION.
 - ANY NECESSARY ADJUSTMENTS DURING CONSTRUCTION WILL BE DONE BY SAWCUTTING AND/OR CORING ONLY. NO JACKHAMMERS, HAMMERS AND CHISELS OR PNEUMATIC TOOLS WILL BE ALLOWED.
 - STEPS SHALL CONFORM TO STD. 5.3.0 AND SHALL BE INSTALLED AT THE CASTING PLANT.
 - ALTERNATE TOP SLAB IS STEEL REINFORCED TO MEET OR EXCEED H-25 LOADING (SEE STD. 4.7.2).
 - ALTERNATE TOP SLAB IS ONLY FOR USE WHEN REDUCING SECTION DOES NOT FIT BECAUSE OF STRUCTURE DEPTH.
 - REFER TO STD. 5.2.0 FOR MAXIMUM PIPE SIZES.

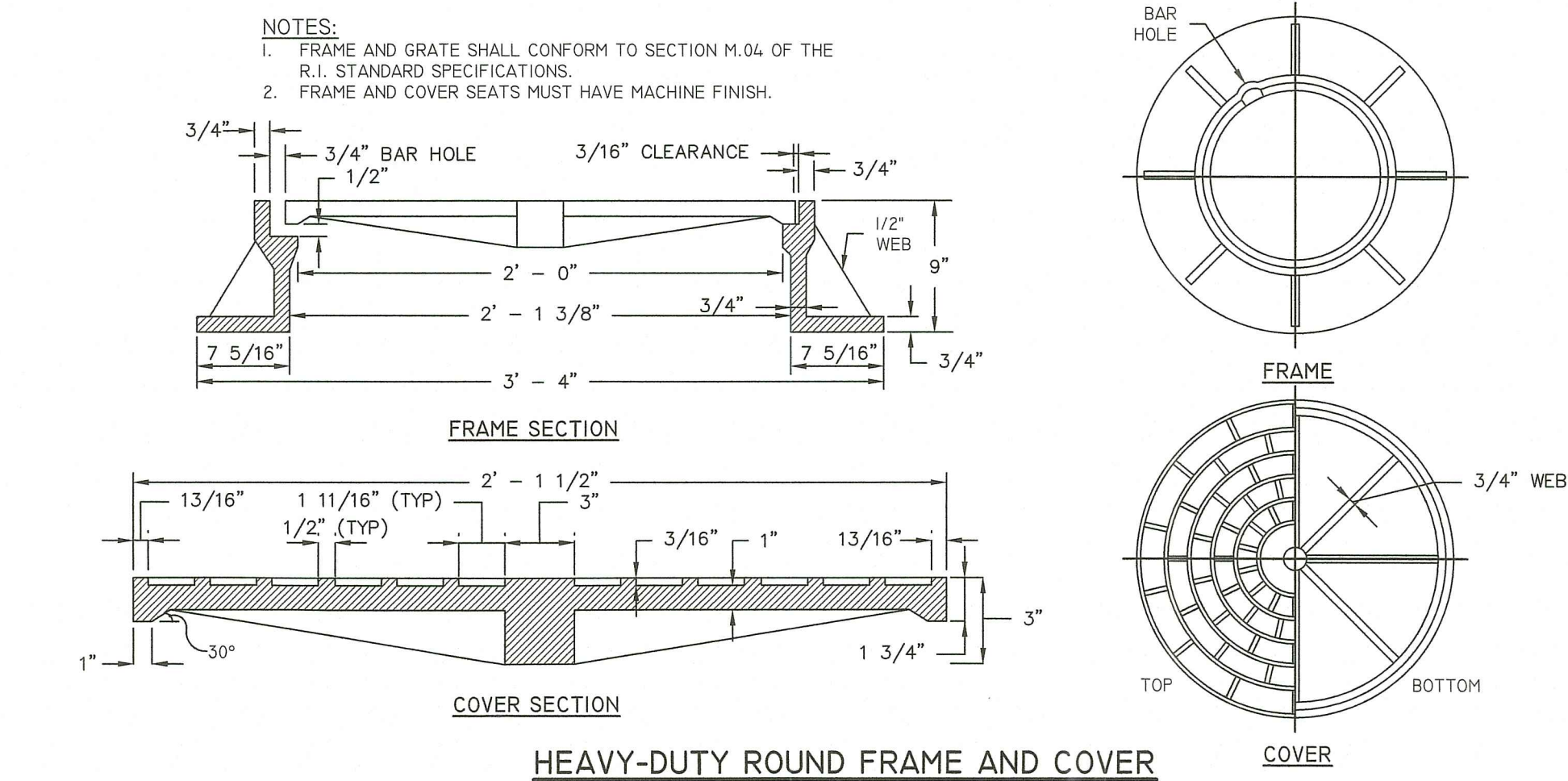
PRECAST 4'-0" ROUND MANHOLE

NOT TO SCALE



SQUARE FRAME AND GRATE (BICYCLE SAFE)

NOT TO SCALE



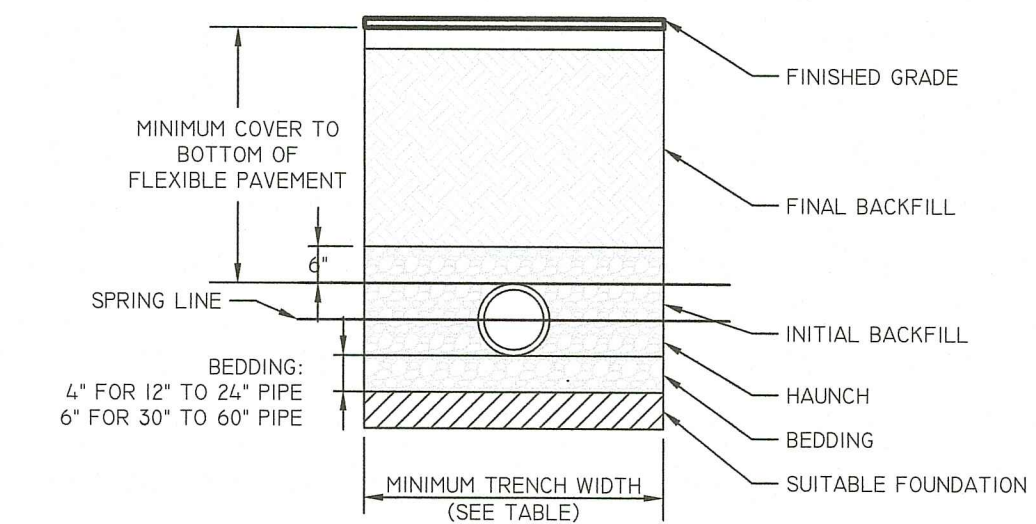
HEAVY-DUTY ROUND FRAME AND COVER

NOT TO SCALE

INSTALLATION NOTES:

- ALL PIPE SYSTEMS SHALL BE INSTALLED IN ACCORDANCE WITH ASTM D2321, "STANDARD PRACTICE FOR UNDERGROUND INSTALLATION OF THERMOPLASTIC PIPE FOR SEWERS AND OTHER GRAVITY FLOW APPLICATIONS, LATEST EDITION.
- MEASURES SHOULD BE TAKEN TO PREVENT MIGRATION OF NATIVE FINES INTO BACKFILL MATERIAL, WHEN REQUIRED.
- FOUNDATION: WHERE THE TRENCH BOTTOM IS UNSTABLE, THE CONTRACTOR SHALL EXCAVATE TO A DEPTH REQUIRED BY THE ENGINEER AND REPLACE WITH SUITABLE MATERIAL AS SPECIFIED BY THE ENGINEER. AS AN ALTERNATIVE AND AT THE DISCRETION OF THE DESIGN ENGINEER, THE TRENCH BOTTOM MAY BE STABILIZED USING A GEOTEXTILE MATERIAL.
- BEDDING: SUITABLE MATERIAL SHALL BE CLASS I, II OR III. THE CONTRACTOR SHALL PROVIDE DOCUMENTATION FOR MATERIAL SPECIFICATION TO ENGINEER. UNLESS OTHERWISE NOTED BY THE ENGINEER, MINIMUM BEDDING THICKNESS SHALL BE 4" (100MM) FOR 4"-24" (100MM-600MM); 6" (150MM) FOR 30"-60" (750MM-900MM).
- INITIAL BACKFILL: SUITABLE MATERIAL SHALL BE CLASS I, II OR III IN THE PIPE ZONE EXTENDING NOT LESS THAN 6' ABOVE CROWN OF PIPE. THE CONTRACTOR SHALL PROVIDE DOCUMENTATION FOR MATERIAL SPECIFICATION TO ENGINEER. MATERIAL SHALL BE INSTALLED AS REQUIRED IN ASTM D2321, LATEST EDITION.
- MINIMUM COVER: MINIMUM COVER, H, IN NON-TRAFFIC APPLICATIONS (GRASS OR LANDSCAPE AREAS) IS 12" FROM THE TOP OF PIPE TO GROUND SURFACE. ADDITIONAL COVER MAY BE REQUIRED TO PREVENT FLOTATION FOR TRAFFIC APPLICATIONS. MINIMUM COVER, H, IS 12" UP TO 48" Ø PIPE AND 24" OF COVER FOR 60" Ø PIPE, MEASURED FROM TOP OF PIPE TO BOTTOM OF FLEXIBLE PAVEMENT OR TO TOP OF RIGID PAVEMENT.

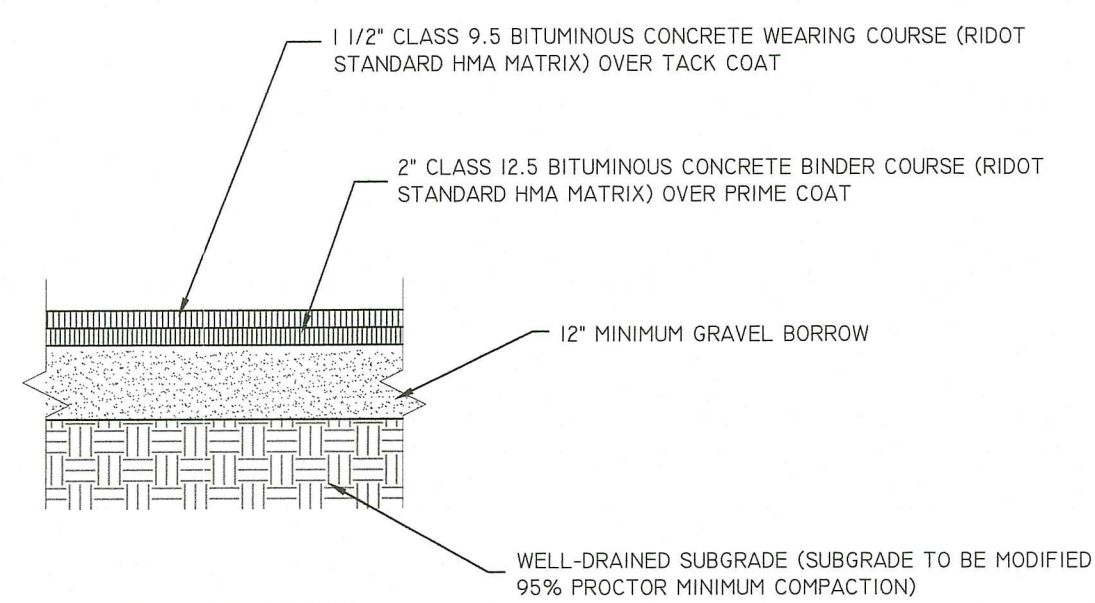
PIPE Ø	MIN. TRENCH WIDTH	PIPE Ø	MIN. TRENCH WIDTH
4"	21"	24"	48"
6"	23"	30"	56"
8"	26"	36"	64"
10"	28"	42"	72"
12"	30"	48"	80"
15"	34"	60"	96"
18"	39"		



HDPE TRENCH DETAIL

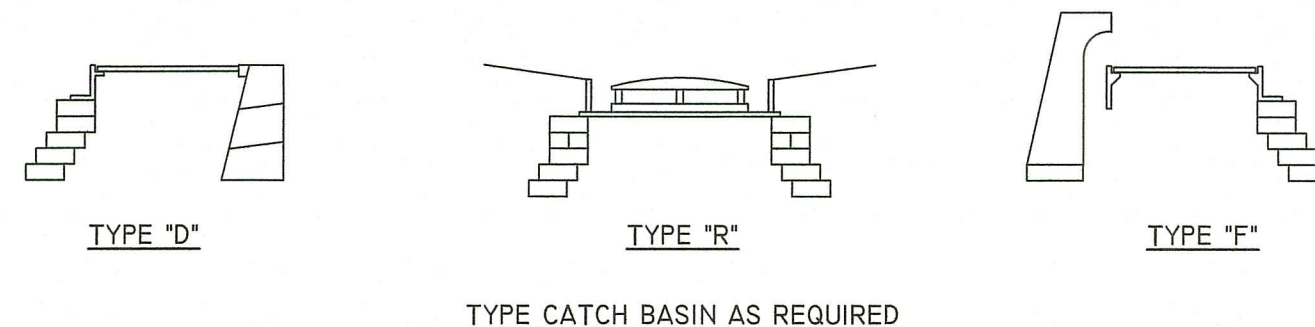
NOT TO SCALE

NOTE:
THIS PAVEMENT SECTION DETAIL REFLECTS ASSUMED MINIMUM REQUIREMENTS WITHOUT GEOTECHNICAL EVALUATION. FINAL DESIGN TO BE BASED ON GEOTECHNICAL DATA OF SPECIFIC PROJECT AND DAILY TRAFFIC DESIGN REQUIREMENTS.

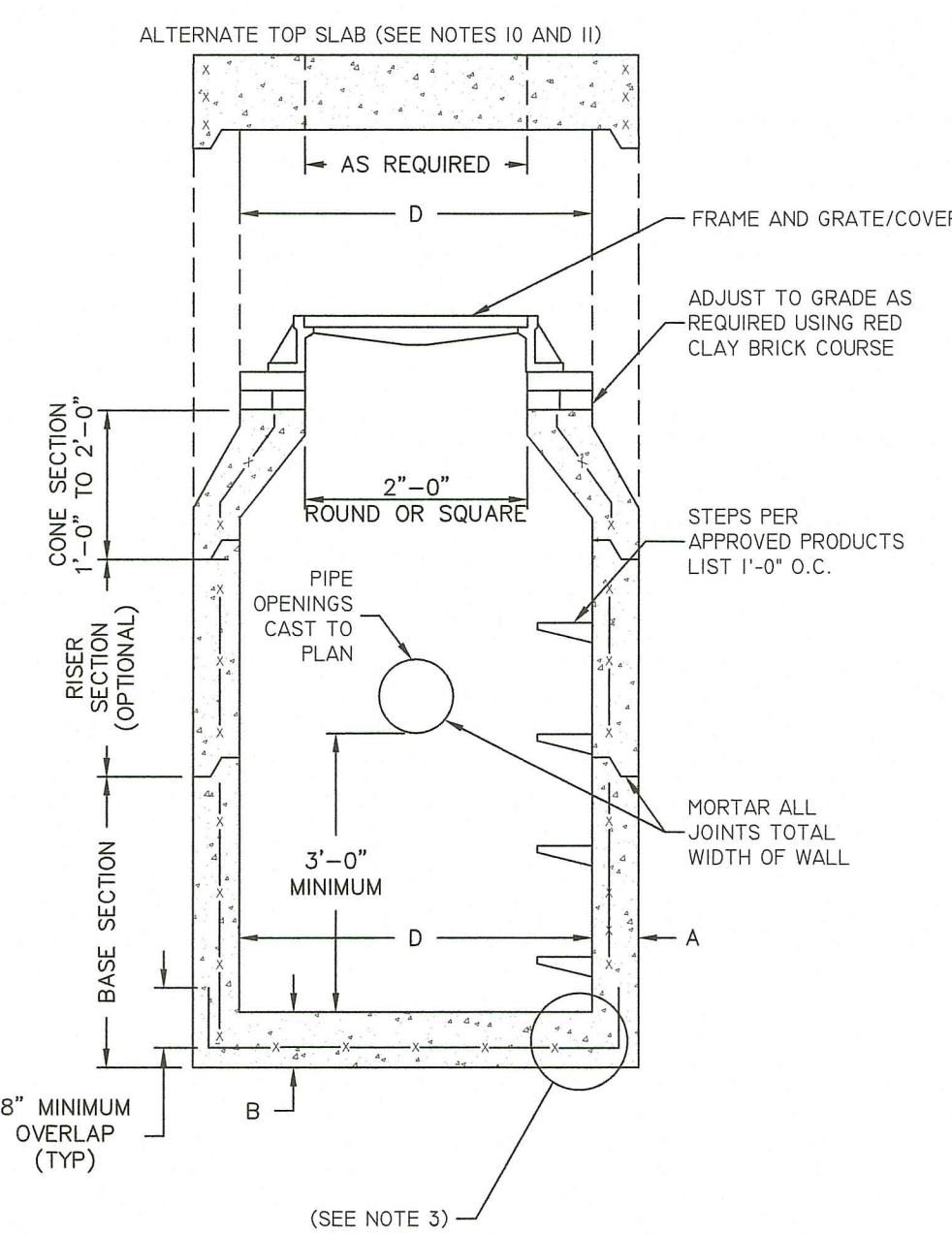


TYPICAL PAVEMENT SECTION

NOT TO SCALE



TYPE CATCH BASIN AS REQUIRED



CATCH BASIN DIAMETER (D)	A	B	CIRCUMFERENTIAL STEEL REINFORCEMENT REQUIRED*
4'-0"	5'	6'	0.12 SQ. IN./LIN. FT.
5'-0"	6'	7'	0.15 SQ. IN./LIN. FT.
6'-0"	7'	8'	0.18 SQ. IN./LIN. FT.

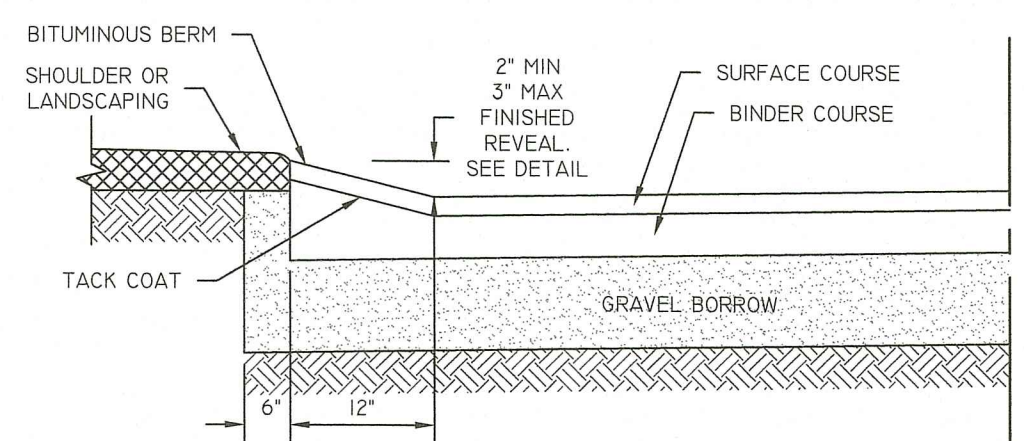
* FOR LONGITUDINAL (VERTICAL STANDING) REINFORCEMENT REFER TO ASTM C478, ITEM 8.1.2

- NOTES:**
- SHALL BE IN ACCORDANCE WITH SECTION 702 OF THE R.I. STANDARD SPECIFICATIONS.
 - SEE TABLE 1 FOR STEEL REINFORCEMENT REQUIREMENTS.
 - STEEL REINFORCEMENT FOR BASE SECTION BOTTOM SHALL BE A MINIMUM OF 0.12 SQUARE INCH/LIN. FOOT (BOTH WAYS).
 - STEPS SHALL CONFORM TO STD. 5.3.0 AND SHALL BE INSTALLED AT THE CASTING PLANT.
 - ONE POUR MONOLITHIC BASE SECTION.
 - ANY NECESSARY ADJUSTMENTS DURING CONSTRUCTION WILL BE DONE BY SAWCUTTING AND/OR CORING ONLY. NO JACKHAMMERS, HAMMERS AND CHISELS OR PNEUMATIC TOOLS WILL BE ALLOWED.
 - CORREL MADE OF RED CLAY BRICK WILL BE PERMITTED FOR THE "CONE SECTION" OF THE 4'-0" CATCH BASIN ONLY.
 - FOR CATCH BASIN TYPES "D" AND "F" STEPS MUST BE INSTALLED ON THE CURB SIDE OF THE STRUCTURE.
 - THE CENTERLINE OF THE OPENING MUST BE WITHIN 2'-0" FROM THE STEPS.
 - ALTERNATE TOP SLAB IS STEEL REINFORCED TO MEET OR EXCEED H-25 LOADING (SEE STD. 4.7.2).
 - ALTERNATE TOP SLAB IS ONLY FOR USE WHEN REDUCING SECTION DOES NOT FIT BECAUSE OF STRUCTURE DEPTH.
 - REFER TO STD. 5.2.0 FOR MAXIMUM PIPE SIZES.

PRECAST ROUND CATCH BASIN

NOT TO SCALE

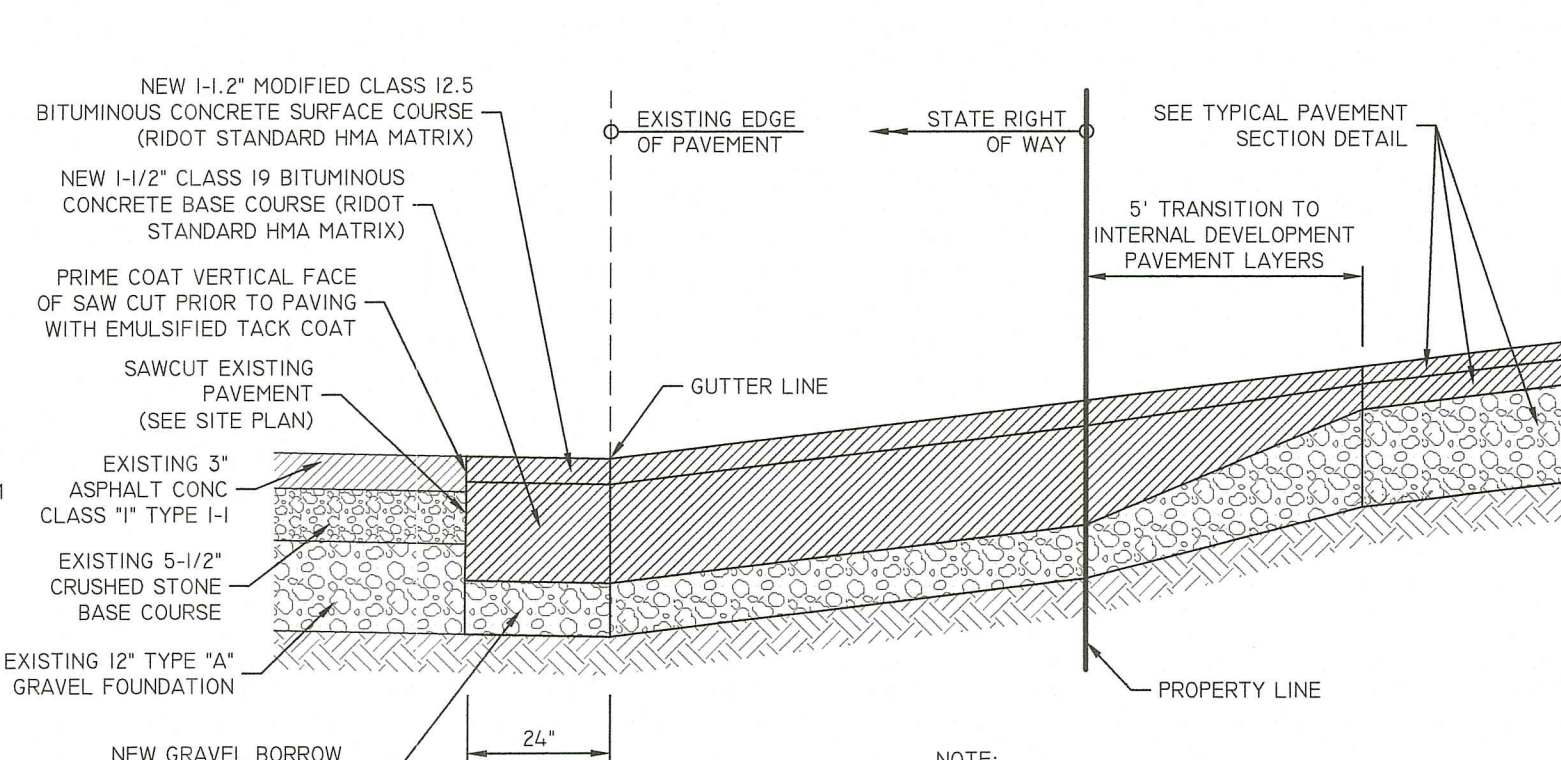
- NOTES:**
- FOR ALL NEW PAVEMENT AREAS, BITUMINOUS BERM MUST BE CONTIGUOUS, PLACED AT THE SAME TIME AS THE BINDER COURSE, THEN OVERLAID WITH SURFACE COURSE. BERM CANNOT BE INSTALLED IN A SEPARATE EXTRUDED OPERATION.
 - ALL DIMENSIONS SHOWN ARE REQUIRED. ANY DEVIATIONS FROM DIMENSIONS SHOWN MUST BE APPROVED IN WRITING BY DESIGN ENGINEER AND PROJECT OWNER PRIOR TO BERM INSTALLATION.
 - BERM INSTALLATION MUST BE IN ACCORDANCE WITH ALL APPLICABLE SPECIFICATIONS, AND AUTHORITIES HAVING JURISDICTION.



BITUMINOUS BERM

NOT TO SCALE

- NOTES:**
- PROPOSED THICKNESSES SHOWN WITHIN THE STATE RIGHT OF WAY ARE MINIMUMS. IF EXISTING THICKNESSES ARE FOUND TO BE GREATER, THE RESTORATION MUST FOLLOW AND MATCH THE EXISTING PAVEMENT STRUCTURE TO ENSURE SIMILAR STRUCTURAL CAPACITIES.
 - GRAVEL BORROW SUBBASE PLACED ON STATE ROADS SHALL MATCH EXISTING SUBBASE DEPTH (MINIMUM 12 INCHES) AND SHALL BE PLACED AND COMPACTED IN ACCORDANCE WITH THE RIDOT SPECIFICATIONS.
 - IF A CONCRETE BASE IS FOUND IN THE ROADWAY, ANY RESTORATION WORKS SHALL INCLUDE NEW CLASS XX CONCRETE, PINNED AND DOWELED TO THE EXISTING CONCRETE, AT A THICKNESS EQUAL TO THE EXISTING CONCRETE SLAB THICKNESS.
 - SWEEPING AND TACK COAT IS REQUIRED FOR ANY MILLED SURFACE PRIOR TO OVERLAY.
 - CLASS 19 HMA IS TO BE PLACED IN LIFTS OF 3" MINIMUM AND 5-3/4" MAXIMUM.
 - ALL ASPHALT WITHIN THE STATE RIGHT OF WAY SHALL BE AN APPROVED MIX DESIGN PROVIDED BY A RIDOT APPROVED SUPPLIER IN ACCORDANCE WITH THE RIDOT STANDARD SPECIFICATIONS.
 - ALL CONCRETE WITHIN THE STATE RIGHT OF WAY SHALL BE PROVIDED BY A RIDOT APPROVED SUPPLIER, SHALL BE CLASS XX AND CONFORM TO SECTION 601 OF THE RIDOT STANDARD SPECIFICATIONS. TRENCH WORK WILL REQUIRE PINNING AND DOWELING AND THE DEPTH SHALL MATCH EXISTING CONCRETE SLAB THICKNESS. CONTRACTOR MUST HOLD BY SUPPORT/RESTORE ALL IMPACTED UTILITY POLES AND ABOVEGROUND OBJECTS AS NECESSARY DURING INSTALLATION WORKS AND COORDINATE WITH ALL ASSOCIATED UTILITY OWNERS ACCORDINGLY.



PAVEMENT TIE IN DETAIL - RIDOT

NOT TO SCALE

NOTE:
EXISTING PAVEMENT STRUCTURE OBTAINED FROM PLAN, PROFILE AND SECTIONS OF PROPOSED STATE HIGHWAY BRIDGE NO. 510 EAST GREENWICH HENT COUNTY, PREPARED BY STATE OF RHODE ISLAND DEPARTMENT OF PUBLIC WORKS DIVISION OF ROADS AND BRIDGES, DATE UNKNOWN (APPROXIMATELY 1957)

**RI DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM**

APPROVED WITH CONDITIONS AS SPECIFIED IN THE LETTER OF APPROVAL DATED MAY 18 2023 FILE # 22-0115

NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL APPROVED PLANS MUST BE AT CONSTRUCTION SITE

Denley L. Freeman

PLANNING BOARD APPROVED - WEST WARWICK, RI

CHAIRMAN:
DATE:

Diprete Engineering
Two Stafford Court Cranston, RI 02920
tel 401-943-1000 fax 401-664-6006 www.diprete-eng.com

KEVIN DEMERS
REGISTERED PROFESSIONAL ENGINEER CIVIL

APR 20 2023
Division of Water Resources

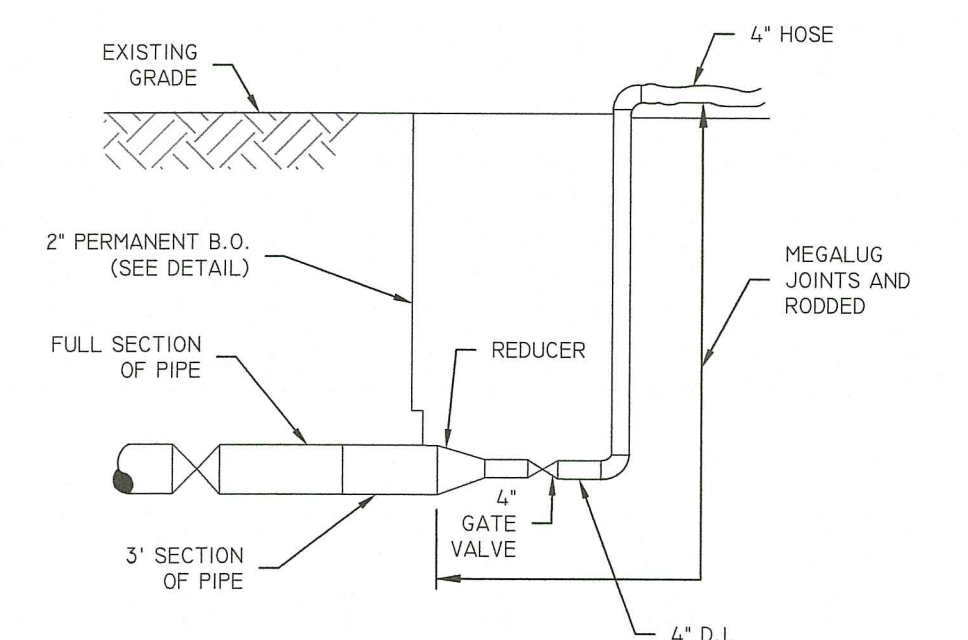
THIS PLAN SET MUST NOT BE USED FOR CONSTRUCTION PURPOSES UNLESS IT IS STAMPED BY A REGISTERED PROFESSIONAL ENGINEER OF DIPRETE ENGINEERING.
DIPRETE ENGINEERING ONLY WARRANTS PLANS ONLY A DIPRETE PROFESSIONAL ENGINEER OF DIPRETE ENGINEERING, DIPRETE ENGINEERING, INC. OR ITS EMPLOYEES, AGENTS, OR CONTRACTORS SHALL BE RESPONSIBLE FOR THE DESIGN, CONSTRUCTION, AND MAINTENANCE OF THE PROJECT. THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS, PRECAUTIONS AND REQUIREMENTS, AND OSHA TRAINING. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS, PRECAUTIONS AND REQUIREMENTS, AND OSHA TRAINING. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS, PRECAUTIONS AND REQUIREMENTS, AND OSHA TRAINING.

NO.	DATE	DESCRIPTION	BY:	DESIGN BY:
1	04-20-2023	PRELIMINARY SET	J.A.R.	K.J.D.
2	05-05-2023	PLANNING SET	J.A.R.	K.J.D.
3	05-18-2023	DESIGN SUBMISSION	J.A.R.	K.J.D.

DETAIL SHEET - 2
GREENWICH GLEN CONDOMINIUMS
ASSESSOR'S PLAT 12 LOTS 130, 133, AND 764
WEST WARWICK, RHODE ISLAND

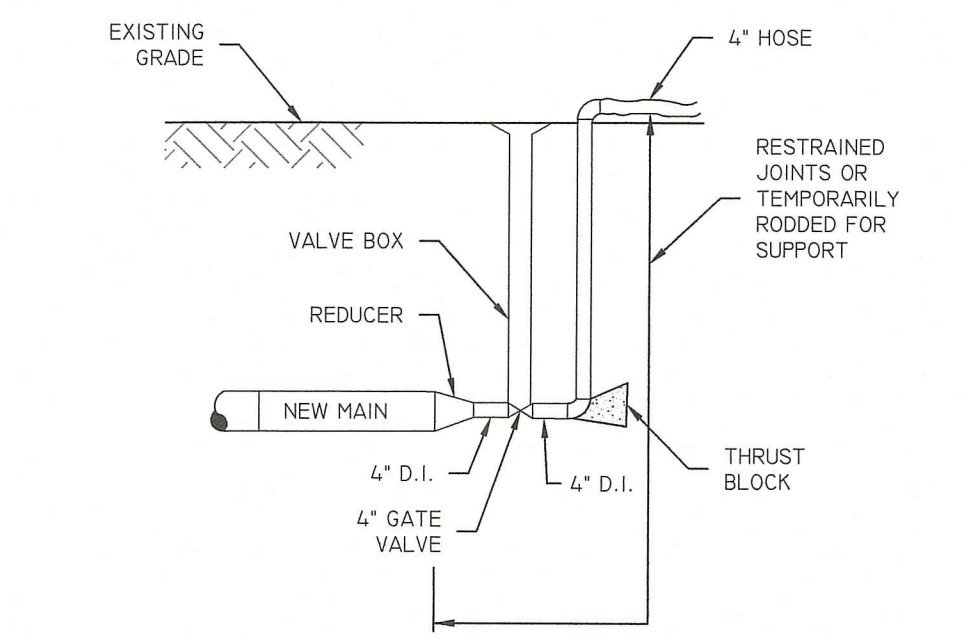
PREPARED FOR:
FRANKLIN COMPANIES
P.O. BOX 9402
PROVIDENCE, RHODE ISLAND 02940

- NOTES:**
- AFTER THE COMPLETION OF THE FINAL FLUSHING THE CONTRACTOR SHALL REMOVE THE TEMPORARY CONNECTION AND INSTALL A CAP WITH MEGALUGS AND A THRUST BLOCK.
 - FROM KENT COUNTY WATER AUTHORITY DETAIL DATE: 09/2006



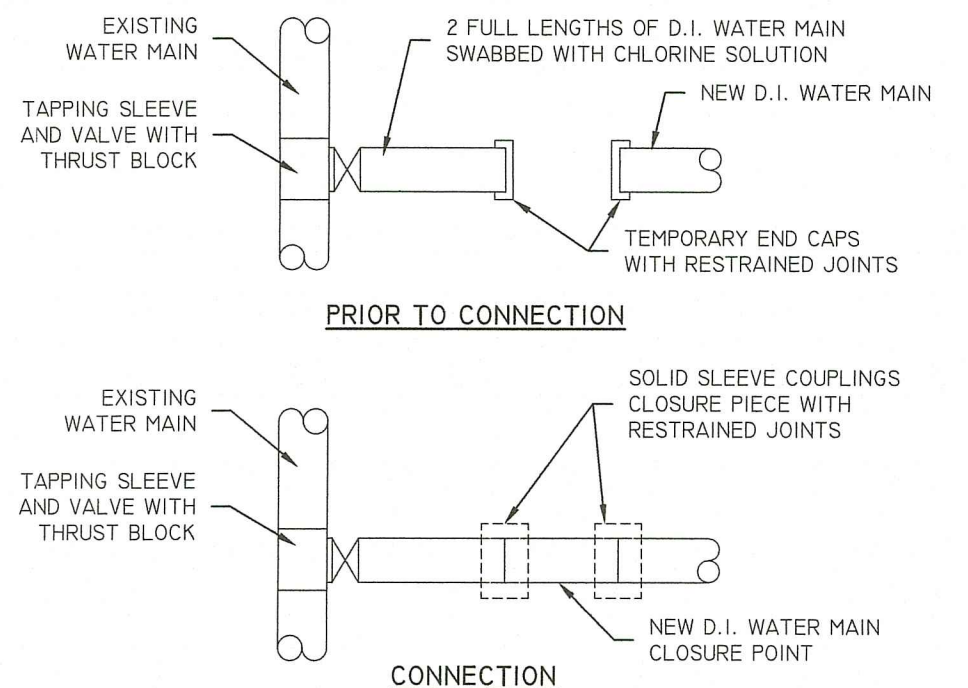
KCWA TEMPORARY FLUSHING CONNECTION ON DEAD END WATER MAIN
NOT TO SCALE

- NOTES:**
- AFTER THE COMPLETION OF THE FINAL FLUSHING THE CONTRACTOR SHALL REMOVE THE TEMPORARY FLUSHING CONNECTION AND CONNECT THE NEW WATER TO THE EXISTING WATER MAIN. ALL PIPING AND FITTINGS SHALL BE DISINFECTED TO THE SATISFACTION OF THE KCWA.
 - FROM KENT COUNTY WATER AUTHORITY DETAIL DATE: 09/2006



KCWA TEMPORARY FLUSHING CONNECTION
NOT TO SCALE

- NOTES:**
- PRIOR TO FINAL APPROVAL FOR PERMANENT CONNECTION FROM KCWA, CONTRACTOR SHALL PERFORM PRESSURE TESTING AND CHLORINATION.
 - SLEEVE FOR CLOSURE TO BE SWABBED WITH CHLORINE SOLUTION.
 - FROM KENT COUNTY WATER AUTHORITY DETAIL DATE: 09/2006

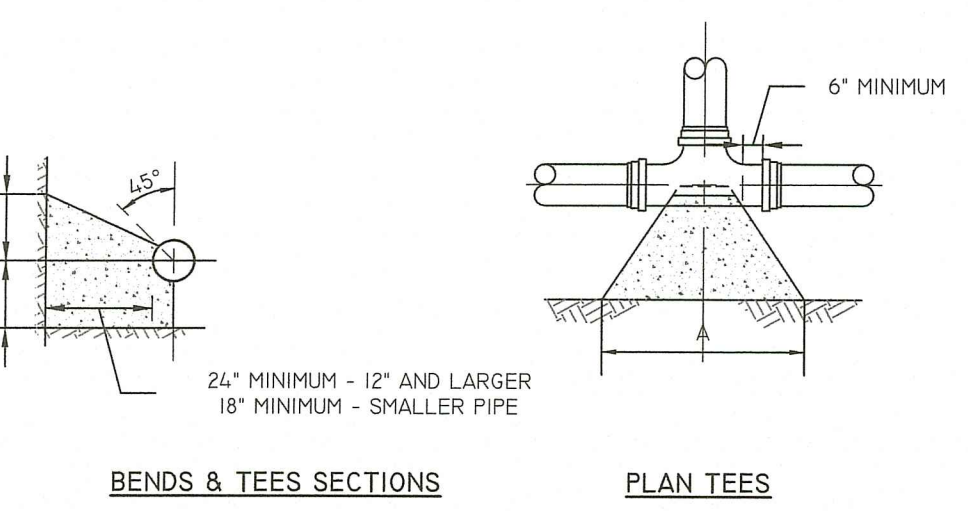


KCWA CONNECTION OF NEW WATER MAIN TO EXISTING WATER MAIN
NOT TO SCALE

NOTES:

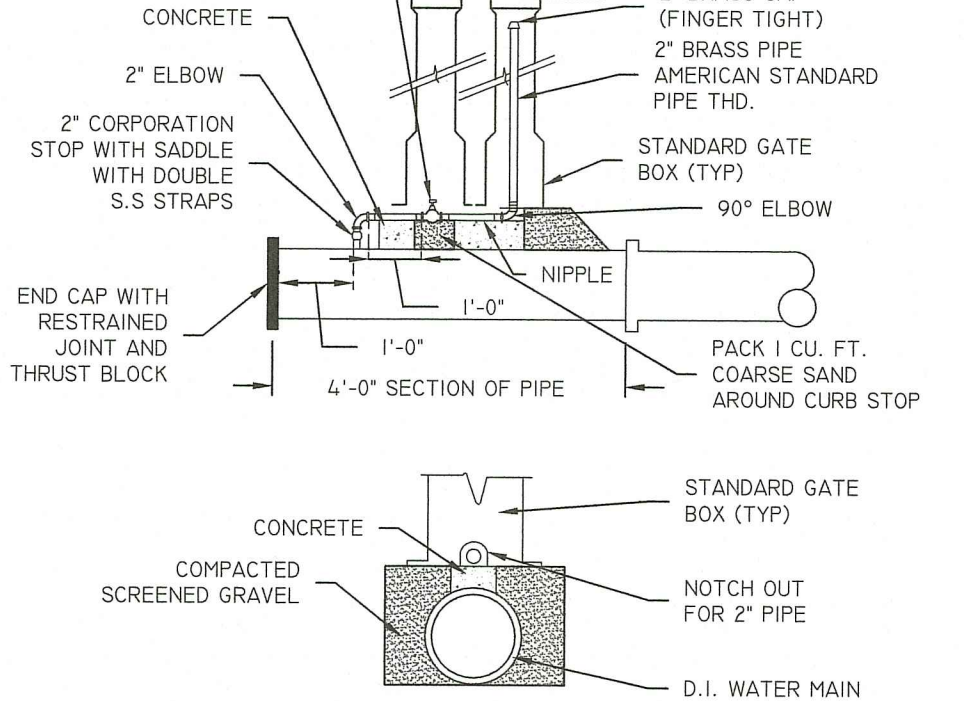
- CONCRETE SHALL BE 4,000 P.S.I. @ 28 DAYS
- CONCRETE THRUST BLOCKS SHALL BEAR AGAINST UNDISTURBED EARTH
- FORMS TO BE USED AS NECESSARY
- ALL BOLTS AND NUTS TO BE PROTECTED FROM CONCRETE AND EASILY ACCESSIBLE WHEN THRUST BLOCK INSTALLED
- REGISTERED PROFESSIONAL ENGINEER IN THE STATE OF RHODE ISLAND SHALL VERIFY CALCULATIONS DURING DESIGN TO MEET CONDITIONS OF PROJECT AND KCWA REQUIREMENTS
- FROM THE KENT COUNTY WATER AUTHORITY DETAIL DATE: 09/2006

SIZE	TEES			PLUGS			90° BEND			45° BEND			22.5° BEND			11.25° BEND		
	A	B	C	A	B	C	A	B	A	B	A	B	A	B	A	B	A	B
6"	20"	10"	10"	21"	24"	12"	18"	18"	0"	13"	7"	9"	5"					
8"	26"	13"	12"	26"	32"	16"	24"	12"	17"	9"	12"	6"						
10"	34"	17"	14"	34"	40"	20"	30"	15"	22"	11"	15"	8"						
12"	41"	20"	16"	41"	48"	24"	35"	18"	25"	13"	18"	9"						
16"	54"	27"	20"	54"	64"	32"	47"	23"	34"	17"	24"	12"						



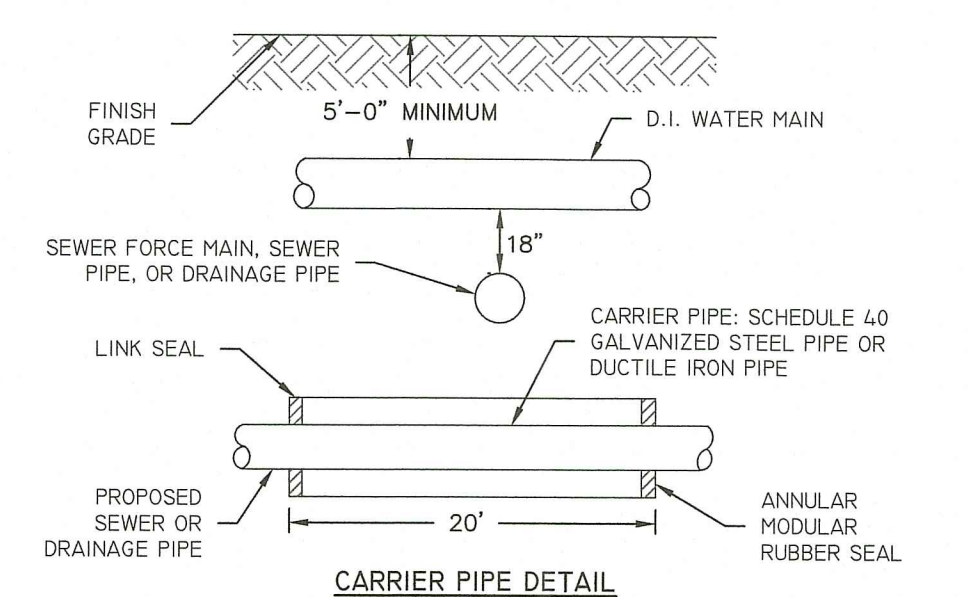
KCWA THRUST BLOCK
NOT TO SCALE

- NOTE:**
- FROM KENT COUNTY WATER AUTHORITY DETAIL DATE: 09/2006



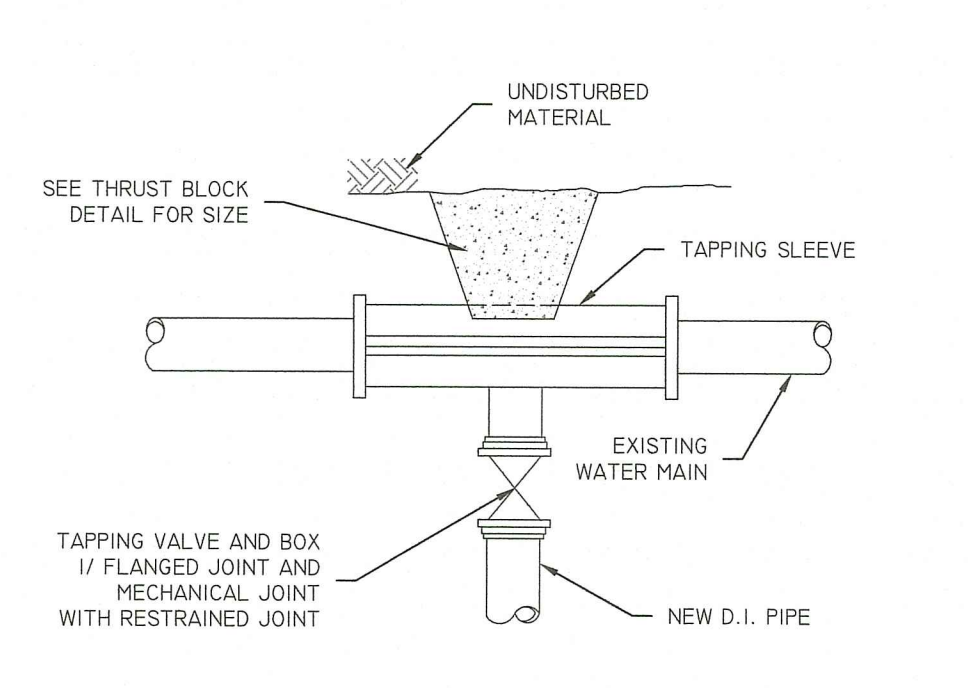
KCWA PERMANENT BLOWOFF ASSEMBLY
NOT TO SCALE

- NOTES:**
- THE VERTICAL SEPARATION BETWEEN THE WATER MAIN AND THE PROPOSED UTILITY SHALL BE A MINIMUM OF 18 INCHES.
 - THE HORIZONTAL SEPARATION BETWEEN THE WATER MAIN AND THE PROPOSED UTILITY SHALL BE A MINIMUM OF 10 INCHES.
 - IF 1 OR 2 CAN NOT BE MAINTAINED THE PROPOSED UTILITY SHALL BE INSTALLED WITHIN A CARRIER PIPE UPON WRITTEN APPROVAL BY THE KCWA.
 - SEWER MAIN AND SERVICES ARE NOT ALLOWED TO CROSS OVER THE TOP OF THE WATER MAIN.
 - CONCRETE ENCASUREMENT IS NOT ALLOWED.
 - FROM THE KENT COUNTY WATER AUTHORITY DETAIL DATE: 09/2006



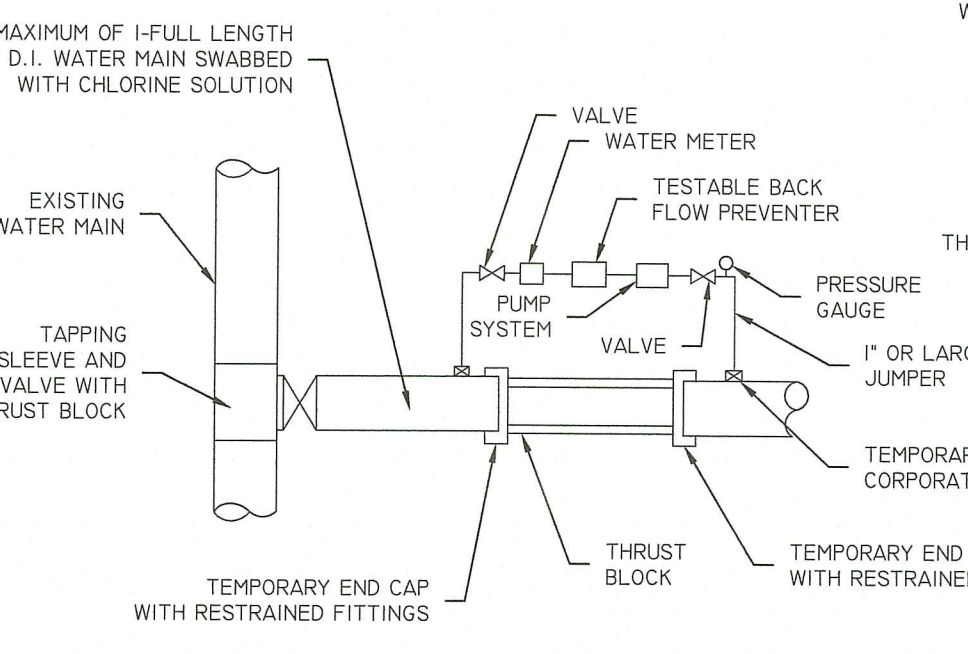
KCWA UTILITY SEPARATION
NOT TO SCALE

- NOTES:**
- TAPPING SLEEVE AND VALVE TO BE SWABBED WITH CHLORINE SOLUTION.
 - FROM KENT COUNTY WATER AUTHORITY DETAIL DATE: 09/2006
 - SEE ELEVATION TO RULES AND REGULATIONS OF THE KENT COUNTY WATER AUTHORITY 4.9.1.3 TAPPING SLEEVE AND VALVE APPROVED FEBRUARY 15, 2007.



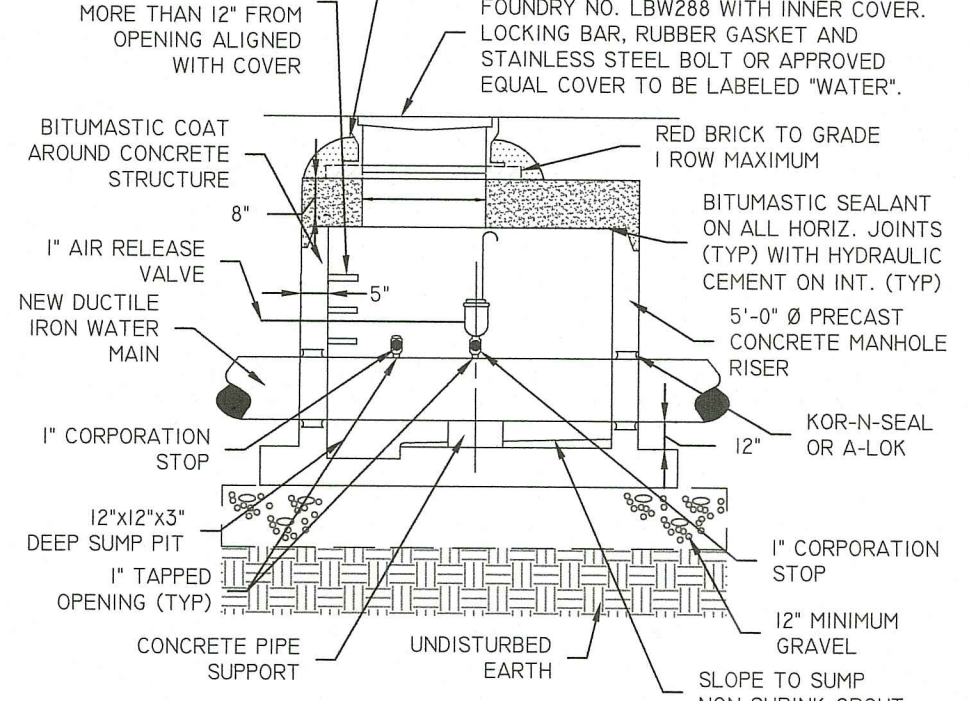
KCWA TAPPING SLEEVE & VALVE
NOT TO SCALE

- NOTES:**
- UPON SUCCESSFUL TESTING AND DISINFECTION THE TEMPORARY CORPORATION STOPS SHALL BE REMOVED AND PLUGS INSTALLED
 - SLEEVE FOR CLOSURE TO BE SWABBED WITH CHLORINE SOLUTION
 - FROM KENT COUNTY WATER AUTHORITY DETAILS DATE: 09/2006



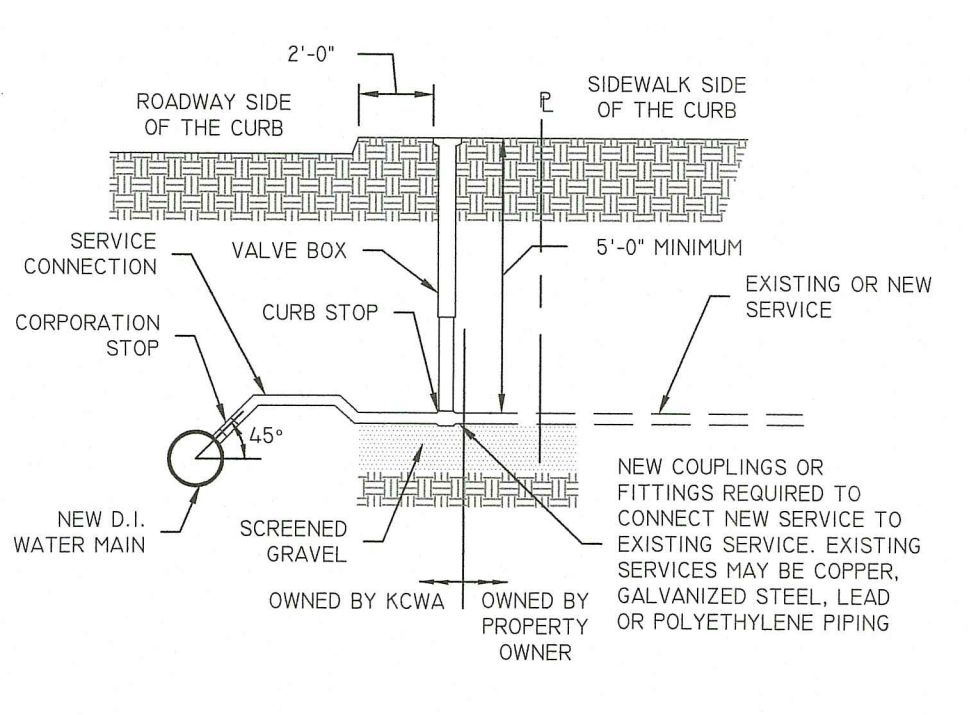
KCWA TEMPORARY CONNECTION FOR PRESSURE TESTING & DISINFECTION
NOT TO SCALE

- NOTE:**
- FROM KENT COUNTY WATER AUTHORITY DETAIL DATE: 09/2006



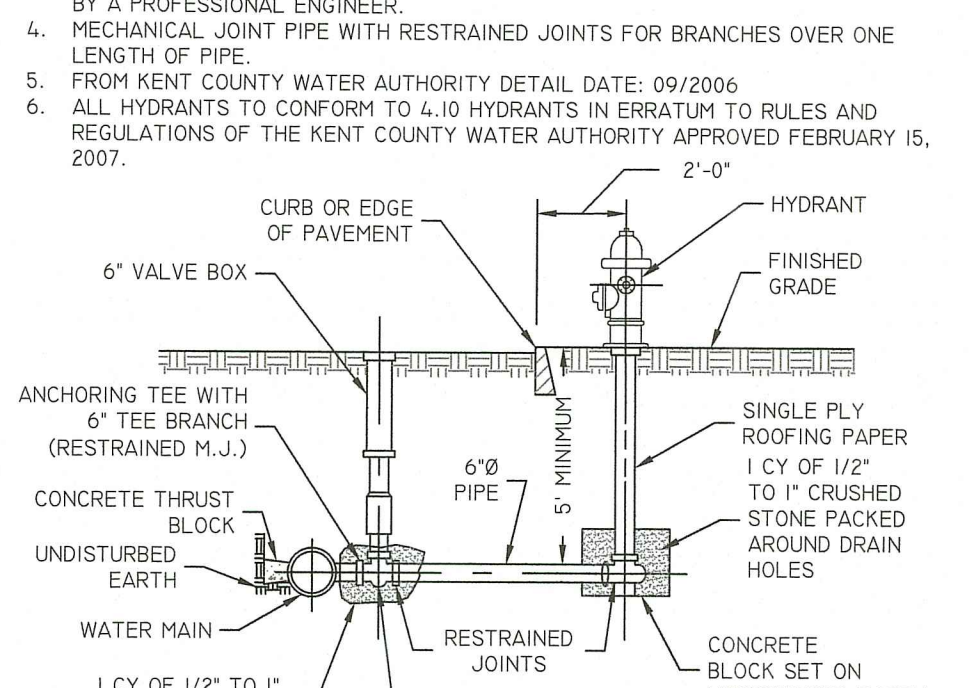
KCWA AUTOMATIC AIR RELEASE MANHOLE
NOT TO SCALE

- NOTES:**
- SERVICE MATERIALS PER KCWA SPECIFICATIONS UNLESS CITY OR TOWN CODES REQUIRE SPECIFIC MATERIALS THAT HAVE BEEN APPROVED BY THE KCWA.
 - SERVICE LINE FROM CURB BOX TO BUILDING SHALL BE INSPECTED, TESTED AND APPROVED BY THE LOCAL PLUMBING INSPECTOR.
 - FROM KENT COUNTY WATER AUTHORITY DETAIL DATE: 09-2006



KCWA SERVICE CONNECTION
NOT TO SCALE

- NOTES:**
- KCWA COLOR SCHEME FOR HYDRANT.
 - INSTALLATION SHALL NOT OBSTRUCT SIDEWALK TO PEDESTRIAN OR PHYSICALLY IMPAIRED.
 - REMOVAL OF EXISTING HYDRANT MAY REQUIRE ADDITIONAL RESTRAINT DESIGNED BY A PROFESSIONAL ENGINEER.
 - MECHANICAL JOINT PIPE WITH RESTRAINED JOINTS FOR BRANCHES OVER ONE LENGTH OF PIPE.
 - FROM KENT COUNTY WATER AUTHORITY DETAIL DATE: 09/2006
 - ALL HYDRANTS TO CONFORM TO 4.10 HYDRANTS IN ELEVATION TO RULES AND REGULATIONS OF THE KENT COUNTY WATER AUTHORITY APPROVED FEBRUARY 15, 2007.



KCWA HYDRANT
NOT TO SCALE

WATER INSTALLATION NOTES

- INSTALLATION OF WATER MAIN AND SERVICE SHALL CONFORM TO THE 'RULES AND REGULATIONS OF THE KENT COUNTY WATER AUTHORITY' SEPTEMBER 20, 2006, OR LATEST EDITION, AND IN ACCORDANCE WITH THE DUCTILE IRON PIPE RESEARCH ASSOCIATION INSTALLATION MANUAL AND ANSI/AWWA C600.
- DISTRIBUTION PIPING SHALL BE CL. 52 DUCTILE IRON, DOUBLE CEMENT LINED, WITH PUSH ON JOINTS. PIPE SHALL MEET ANSI/AWWA C151 A21.51. JOINTS SHALL MEET ANSI/AWWA C11/A21.11.
- FITTINGS SHALL BE DUCTILE IRON MECHANICAL JOINT CL.350 CEMENT MORTAR LINED AND MEET ANSI/AWWA/C153/A21.53. MECHANICAL JOINTS SHALL MEET ANSI/AWWA/C11/A21.11 AMERICAN MANUFACTURER ONLY.
- VALVES SHALL BE MECHANICAL JOINT, DOUBLE DISC PARALLEL SEAT OR RESILIENT SEAT GATE SETS AS FOLLOWS:
A. MULLER CORPORATION DOUBLE DISC PARALLEL SEAT.
B. AMERICAN DARLING VALVE RESILIENT SEAT MODEL CRS-80.
- PRESSURE TEST OF THE WATER SYSTEM SHALL BE 1.5 TIMES THE MAXIMUM WORKING PRESSURE OR 150 PSI. NOTIFY KENT COUNTY WATER AUTHORITY 2 DAYS PRIOR TO TEST AS APPLICABLE.
- NOTIFY THE KENT COUNTY AUTHORITY 5 DAYS PRIOR TO CONSTRUCTION COMMENCEMENT.
7. CHLORINATION OF SYSTEM AND SAMPLING SHALL CONFORM TO SEC. 3.5 OF REQUIREMENTS FOR SERVICE AND MAIN INSTALLATION.
8. NOTIFY ENGINEER PRIOR TO COVERING OF WATER SERVICE TO SURVEY AS-BUILT LOCATION AND TO COMPLETE REQUIRED AS-BUILT PLAN. ENGINEER WILL NOT ACCEPT FIELD MEASUREMENTS FROM THE CONTRACTOR.
9. WATER SERVICE INSTALLATIONS GREATER THAN 200' MUST HAVE A METER PIT.
10. A METER PIT IS PROPOSED FOR THIS SITE AND IS LOCATED AT THE ENTRANCE.
11. TEMPORARY FLUSHING CONNECTIONS AND BLOW-OFFS SHALL BE SIZED TO PROVIDE 2.5 FEET PER SECOND FLOW PER AWWA STANDARD 651
12. CONTRACTOR RESPONSIBLE TO COORDINATE WITH PLUMBING OFFICIAL FOR DISINFECTION OF SERVICE PIPE EXTENDING FROM CURB BOX TO HOME PER STATE PLUMBING CODE AND KENT COUNTY WATER AUTHORITY REGULATIONS. WATER SERVICE CANNOT BE ACTIVATED WITHOUT COPY OF LAB RESULTS AND PLUMBING INSPECTOR'S VERIFICATION.
13. ALL INSTALLATION SHALL CONFORM TO THE RULES AND REGULATIONS OF THE KENT COUNTY WATER AUTHORITY-SEPTEMBER 20, 2006 OR LATEST EDITION.
14. PRESSURE-REDUCING VALVES ARE REQUIRED AT ALL BUILDINGS PER RI BUILDING CODE.

SEWER LINE/WATER MAIN SEPARATION POLICY

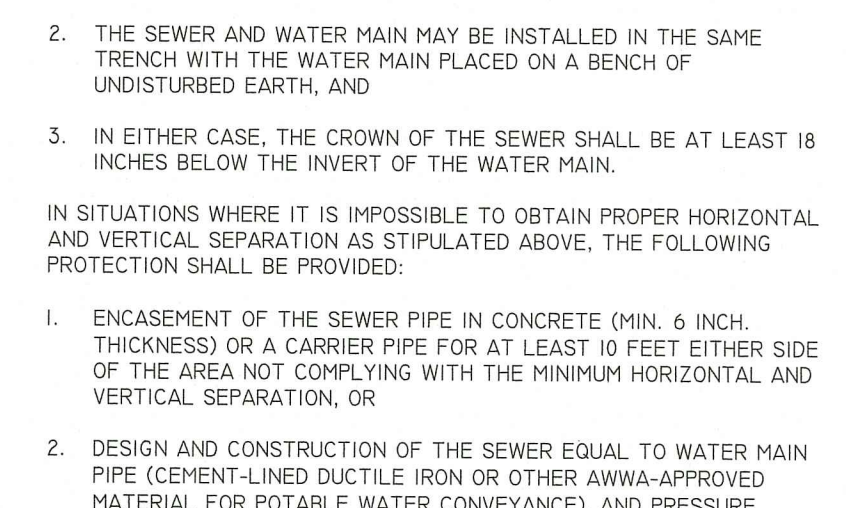
- KENT COUNTY WATER AUTHORITY RULES AND REGULATIONS 3.21.6
WATER MAINS SHALL BE LAID WITH A MINIMUM OF TEN-FOOT HORIZONTAL CLEARANCE FROM ANY EXISTING SEWER FACILITIES. THE DISTANCE SHALL BE MEASURED EDGE TO EDGE. WATER MAINS CROSSING UNDER SEWERS SHALL BE FORBIDDEN. WATER MAINS CROSSING OVER SEWERS SHALL BE LAID TO PROVIDE A MINIMUM VERTICAL SEPARATION OF EIGHTEEN-INCHES BETWEEN THE INVERT OF THE WATER MAIN AND THE CROWN OF THE SEWER. RE-ALIGNMENT OF AN EXISTING WATER MAIN OR RELOCATION OF THE SEWER MAY BE NECESSARY TO ACHIEVE THIS VERTICAL SEPARATION. THE GENERAL MANAGER/CHIEF ENGINEER MUST APPROVE ANY DEVIATION FROM THESE REQUIREMENTS. CONCRETE ENCASUREMENT SHALL NOT BE ALLOWED IN THE DESIGN FOR SEWER AND WATER CROSSINGS.
- KENT COUNTY WATER AUTHORITY RULES AND REGULATIONS 3.14.6
A MINIMUM OF TEN-FOOT HORIZONTAL AND EIGHTEEN-INCH VERTICAL SEPARATION SHALL BE MAINTAINED IN THE PLACEMENT OF WATER MAINS, SERVICES OR APPURTENANCES WITHIN THE VICINITY OF SEWER FACILITIES OR VICE VERSA. IN CASES WHERE IT IS NOT POSSIBLE TO MAINTAIN A 10-FOOT HORIZONTAL SEPARATION OR IN THE CASE OF CROSSING THE EIGHTEEN-INCH VERTICAL SEPARATION, A DEVIATION FROM THIS RESTRICTION MAY BE ALLOWED ON A CASE BY CASE BASIS WITH PRIOR APPROVAL FROM THE GENERAL MANAGER/CHIEF ENGINEER AS TO THE PROPOSED MATERIALS AND INTERVENTIONS TO BE TAKEN TO PROTECT THE WATER SYSTEM FROM THE POSSIBILITY OF CONTAMINATION.

SITE SPECIFIC WATER NOTES:

- AS PER SECTION 2.5.2 OF THE KCWA RULES AND REGULATIONS, PRIVATE HYDRANTS SHALL BE INCLUDED IN THE DEED RESTRICTIONS FOR THE PROPERTY. THE DEED RESTRICTION SHALL INCLUDE PERPETUAL MAINTENANCE OF THE HYDRANTS BY THE PROPERTY OWNERS. THE RESTRICTIONS WILL ALSO SPECIFY THAT, NO WATER SHALL BE DRAWN FROM THE FIRE SERVICE HYDRANT FOR ANY PURPOSE WHATSOEVER SO EVER EXCEPT TO EXTINGUISH A FIRE. ALL PRIVATE HYDRANTS SHALL BE PLACED BEHIND A METER AND AN APPROVED STYLE BACKFLOW DEVICE.
- HOT BOX CONFIGURATION TO INCLUDE BYPASS PIPING WITH OS+Y RISING STEM. ALL VALVES SHALL MEET REQUIREMENTS OF THE KENT COUNTY WATER AUTHORITY.

SEWER LINE / WATER MAIN SEPARATION POLICY FOR DESIGN OF SANITARY SEWERS

- A. LATERAL PLACEMENT OF SEWERS AND WATER MAINS**
SEWERS SHALL BE LAID AT LEAST 10 FEET HORIZONTALLY FROM ANY EXISTING OR PROPOSED WATER MAIN. THE DISTANCE SHALL BE MEASURED EDGE-TO-EDGE. THERE IS NO MINIMUM VERTICAL SEPARATION REQUIRED PROVIDED THE 10 FOOT HORIZONTAL SEPARATION IS MAINTAINED.
- B. SEWERS CROSSING WATER MAINS**
SEWERS CROSSING OVER WATER MAINS SHOULD BE AVOIDED, BUT IF CONDITIONS WARRANT THIS SITUATION, THEN ADEQUATE STRUCTURAL SUPPORT SHALL BE PROVIDED FOR THE SEWER TO MAINTAIN LINE AND GRADE. SEWERS CROSSING UNDER WATER MAINS SHALL BE LAID TO PROVIDE A MINIMUM VERTICAL SEPARATION OF 18 INCHES BETWEEN THE INVERT OF THE WATER MAIN AND THE CROWN OF THE SEWER. THE CROSSING SHALL BE ARRANGED SO THAT SEWER JOINTS WILL BE EQUIDISTANT AND AS FAR AS POSSIBLE FROM THE WATER MAIN JOINTS.
- WHERE CONDITIONS PREVENT AN 18 INCH VERTICAL SEPARATION FROM BEING MAINTAINED, THE FOLLOWING METHODS SHALL BE SPECIFIED:
- THE SEWER SHALL BE DESIGNED AND CONSTRUCTED EQUAL TO WATER MAIN PIPE (CEMENT-LINED DUCTILE IRON PIPE, PVC OR OTHER AWWA APPROVED MATERIAL FOR POTABLE WATER CONVEYANCE) FOR A DISTANCE OF 12 FEET ON EACH SIDE OF THE CROSSING, MEASURED PERPENDICULAR TO THE WATER MAIN AND PRESSURE TESTED IN ACCORDANCE WITH AWWA SPECIFICATIONS, OR
 - EITHER THE WATER MAIN OR THE SEWER MAY BE ENCASED IN CONCRETE (MIN. 6 INCH THICKNESS) OR A CARRIER PIPE FOR A DISTANCE OF 12 FEET ON EACH SIDE OF THE CROSSING, MEASURED PERPENDICULAR TO THE WATER MAIN. THE CARRIER PIPE SHALL BE DESIGNED AND CONSTRUCTED OF MATERIALS WHICH ARE SATISFACTORY TO THE DIVISION, OR
 - ANY OTHER METHODS, IF SUPPORTED BY DATA FROM THE DESIGN ENGINEER, WHICH ENSURE ADEQUATE WATER TIGHTNESS AND ARE SATISFACTORY TO THE DIVISION.



KCWA THRUST BLOCK
NOT TO SCALE

LEAKAGE AND PRESSURE TESTING FOR WATERMANS

- GENERAL**
 - HYDROSTATIC AND LEAKAGE TESTS SHALL BE PERFORMED ON ALL COMPLETED SECTIONS OF NEWLY INSTALLED WATERMAIN PIPELINE IN ACCORDANCE WITH AWWA C600. THE KENT COUNTY WATER AUTHORITY, AND AS SPECIFIED BELOW.
 - THE CONTRACTOR IS RESPONSIBLE FOR FURNISHING ALL LABOR, TOOLS AND EQUIPMENT NECESSARY FOR TESTING. CONTRACTOR TO NOTIFY KENT COUNTY WATER AUTHORITY 48 HOURS IN ADVANCE OF TEST DATE.
- TESTING PROCEDURES**
 - ALL AIR SHALL BE EXPELLED AT THE HIGH POINTS AND THE PIPELINE SLOWLY FILLED WITH POTABLE WATER, AND MUST SIT FOR 24 HOURS BEFORE CONDUCTING TEST.
 - THE INTERNAL PRESSURE SHALL BE BUILT UP TO 150 PSI AND MAINTAINED FOR A PERIOD OF NOT LESS THAN ONE (1) HOUR.
 - ALL LEAKS IN THE PIPELINE SHALL BE STOPPED; CRACKED OR DEFECTIVE PIPE, FITTINGS OR ACCESSORIES SHALL BE REMOVED AND REPLACED WITH NEW BY THE CONTRACTOR.
 - THE PIPELINE SHALL BE RETESTED AS MAY BE REQUIRED AND NECESSARY UNTIL THE LEAKAGE FALLS WITHIN THE ALLOWABLE DETERMINED FOR THE PIPE NETWORK, AT WHICH TIME THE PIPELINE MAY BE CONSIDERED READY FOR:
 - WATERMANS - DISINFECTION STEP
 - COMPLIANCE WITH STATE PLUMBING CODE IN REFERENCE TO RESIDENTIAL BACK FLOW PREVENTION. MUST BE VERIFIED BY PLUMBER INSPECTOR, PRIOR TO METER INSTALLATION.

CHLORINATION/DISINFECTION* POLICY

- ALL NEW OR REPAIRED POTABLE WATER SYSTEM DISTRIBUTION MAINS, SERVICE PIPE AND THE NECESSARY CONNECTING PIPES, FITTINGS, CONTROL VALVES, AND ALL APPURTENANCES IN OR ADJACENT TO ANY RESIDENCE, BUILDING OR PREMISES SHALL BE PURGED OF DELETERIOUS MATTER AND SHALL BE DISINFECTED PRIOR TO UTILIZATION OR PERMANENT CONNECTION TO THE KENT COUNTY WATER AUTHORITY (KCWA) SYSTEM. THAT PORTION OF THE CUSTOMER'S SERVICE PIPE AFTER THE CURB STOP SHALL BE DISINFECTED UNDER THE SUPERVISION OF THE LOCAL PLUMBING OFFICIAL. THE OWNER MUST PROVIDE WRITTEN LABORATORY CERTIFIED DOCUMENTATION OF THE DISINFECTION RESULTS TO THE KCWA BEFORE MAKING ANY PERMANENT CONNECTION TO THE KCWA SYSTEM OR BEFORE REACTIVATION OF ANY EXISTING WATER SERVICE WHICH CAN BE AUTHORIZED. PLEASE REFER TO APPENDICES FOR PROGRAM REQUIREMENTS OF THE CUSTOMER WATER SERVICE DISINFECTION POLICY.
 - THE PROPOSER OR THE CONTRACTOR FOR THE PROPOSER, IN ACCORDANCE WITH CHAPTER 5, DISTRIBUTION SYSTEM CHLORINATION, AMERICAN WATER WORKS ASSOCIATION MANUAL #20, SHALL PERFORM CHLORINATION. TABLET CHLORINATION SHALL NOT BE ALLOWED.
 - THE OWNER OR CUSTOMER IS RESPONSIBLE FOR ALL COSTS ASSOCIATED WITH THE DISINFECTION PROCESS OR PROCEDURE.
 - THE DISINFECTION MUST RESULT IN ELIMINATION FROM THE VARIOUS PARTS OF THE NEW PIPE LINE ANY EVIDENCE OF THE EXISTENCE, THEREIN, OF BACTERIA INDICATIVE OF ANY CONTAMINATION, AS DETERMINED BY TEST OF THE BACTERIAL CONTENT OF SAMPLES OF WATER TAKEN FROM THE NEW WATER MAIN. THE DISINFECTION MAY BE ACCOMPLISHED BY INTRODUCING INTO ALL THE VARIOUS PARTS OF THE NEW WATER MAINS, A LIQUID SOLUTION CONTAINING 1% AVAILABLE CHLORINE IN SUCH VOLUME THAT THE RATE OF DOSAGE TO THE WATER MAINS SHALL BE AT LEAST 50 PARTS PER MILLION OF AVAILABLE CHLORINE. TABLET CHLORINATION IS NOT ALLOWED. THE CONTACT PERIOD FOR THIS DISINFECTION SHALL BE AT LEAST 24 HOURS, AND A LONGER PERIOD WILL BE REQUIRED IF TESTS OF RESIDUAL CHLORINE SHOW IT TO BE NECESSARY FOR PROPER DISINFECTION.
 - THE NEW WATER SYSTEM SHALL BE FLUSHED OUT AFTER DISINFECTION AND REFILLED WITH FRESH WATER. ALL CHLORINATED WATER USED IN THE DISINFECTION PROCESS SHALL BE DE-CHLORINATED PRIOR TO DISCHARGE TO THE SURROUNDING AREA.
 - WATER MUST SIT IN THE MAIN FOR AT LEAST 24 HOURS PRIOR TO TAKING A TEST SAMPLE. WATER FOR THIS PURPOSE, FLUSHING OR PRESSURE TESTING, WHICH IS OBTAINED DIRECTLY FROM THE KCWA SYSTEM, MUST FLOW THROUGH AN ISOLATED CONNECTION TO THE KCWA SYSTEM VIA AN APPROVED METER, TESTABLE BACKFLOW PREVENTION DEVICE AND JUMPER LINE. THE CONTRACTOR SHALL MAKE ALL NECESSARY ARRANGEMENTS FOR SECURING THE WATER FOR TEST PURPOSES AND SHALL BEAR THE EXPENSE OF THESE ARRANGEMENTS. THE INSTALLER SHALL FURNISH AND INSTALL SUITABLE TEMPORARY TESTING PLUGS, CAPS, PUMPS, PIPE CONNECTIONS AND OTHER APPURTENANCES, AS NECESSARY, TO OBTAIN SAMPLES AT POINTS NO FURTHER THAN 1,000 FEET APART.
 - AFTER FINAL FLUSHING AND BEFORE THE NEW WATER MAIN IS CONNECTED TO THE DISTRIBUTION SYSTEM, TWO CONSECUTIVE SETS OF ACCEPTABLE SAMPLES FOR COLIFORM BACTERIA HETEROTROPIC PLATE COUNT (HPC), TAKEN 24 HOURS APART, SHALL BE COLLECTED FROM THE TERMINATION OF THE NEW MAIN. AT LEAST ONE SAMPLE SHALL BE COLLECTED EVERY 1000 FT. OF NEW MAIN, PLUS ONE SET OF TWO SAMPLES FROM THE END OF THE LINE. AT LEAST ONE SET OF TWO SAMPLES SHALL BE TAKEN FROM EACH BRANCH. SAMPLES SHALL BE COLLECTED BY KCWA EMPLOYEES, WHOSE NAMES AND OSHA ACCREDITATION IN THE SUPPLEMENT TO THE CONTRACT SHALL BE DESIGNATED.
 - EXISTING UTILITIES SHOWN ON THIS PLAN ARE APPROXIMATE. CONTRACTOR SHALL VERIFY THE LOCATION OF EXISTING UTILITIES. SEE UTILITIES SHEET ON SHEET 3.
- * TAKEN FROM SECTION 3.23 OF THE 'RULES AND REGULATIONS OF THE KENT COUNTY WATER AUTHORITY' DATED SEPTEMBER 20, 2006.

DiPrete Engineering
Two Stafford Court Cranston, RI 02920
tel. 401-943-1000 fax 401-661-6006 www.diprete-eng.com

Boston • Providence • Newport

KEVIN DEMERS
REGISTERED PROFESSIONAL ENGINEER CIVIL

RI Environmental Consultants
APR 23 2023
Office of Water Resources

UNLESS OTHERWISE SPECIFIED, ALL CONSTRUCTION PERFORMED SHALL BE IN ACCORDANCE WITH THE LATEST EDITIONS OF THE FOLLOWING:
REGISTERED PROFESSIONAL ENGINEER OF DIPRETE

DIPRETE ENGINEERING ONLY WARRANTS THAT AN ACCURATE ENGINEERING TITLE BLOCK IS STAMPED IN REGISTERED PROFESSIONAL ENGINEER'S HANDS. THE CONTRACTOR IS RESPONSIBLE FOR ALL OF THE MEANS, METHODS, MATERIALS, AND OSHA ACCREDITATION IN THE SUPPLEMENT TO THE CONTRACT DESIGN.

EXISTING UTILITIES SHOWN ON THIS PLAN ARE APPROXIMATE. CONTRACTOR SHALL VERIFY THE LOCATION OF EXISTING UTILITIES. SEE UTILITIES SHEET ON SHEET 3.

NO.	DATE	DESCRIPTION	BY:
1	01-22-2023	J.A.R.	J.A.R.
2	02-12-2023	J.A.R.	J.A.R.
3	03-12-2023	J.A.R.	J.A.R.
4	03-12-2023	J.A.R.	J.A.R.
5	03-12-2023	J.A.R.	J.A.R.
6	03-12-2023	J.A.R.	J.A.R.
7	03-12-2023	J.A.R.	J.A.R.
8	03-12-2023	J.A.R.	J.A.R.
9	03-12-2023	J.A.R.	J.A.R.
10	03-12-2023	J.A.R.	J.A.R.
11	03-12-2023	J.A.R.	J.A.R.
12	03-12-2023	J.A.R.	J.A.R.
13	03-12-2023	J.A.R.	J.A.R.
14	03-12-2023	J.A.R.	J.A.R.
15	03-12-2023	J.A.R.	J.A.R.
16	03-12-2023	J.A.R.	J.A.R.
17	03-12-2023	J.A.R.	J.A.R.
18	03-12-2023	J.A.R.	J.A.R.
19	03-12-2023	J.A.R.	J.A.R.
20	03-12-2023	J.A.R.	J.A.R.
21	03-12-2023	J.A.R.	J.A.R.
22	03-12-2023	J.A.R.	J.A.R.
23	03-12-2023	J.A.R.	J.A.R.
24	03-12-2023	J.A.R.	J.A.R.
25	03-12-2023	J.A.R.	J.A.R.
26	03-12-2023	J.A.R.	J.A.R.
27	03-12-2023	J.A.R.	J.A.R.
28	03-12-2023	J.A.R.	J.A.R.
29	03-12-2023	J.A.R.	J.A.R.
30	03-12-2023	J.A.R.	J.A.R.
31	03-12-2023	J.A.R.	J.A.R.
32	03-12-2023	J.A.R.	J.A.R.
33	03-12-2023	J.A.R.	J.A.R.
34	03-12-2023	J.A.R.	J.A.R.
35	03-12-2023	J.A.R.	J.A.R.
36	03-12-2023	J.A.R.	J.A.R.
37	03-12-2023	J.A.R.	J.A.R.
38	03-12-2023	J.A.R.	J.A.R.
39	03-12-2023	J.A.R.	J.A.R.
40	03-12-2023	J.A.R.	J.A.R.
41	03-12-2023	J.A.R.	J.A.R.
42	03-12-2023	J.A.R.	J.A.R.
43	03-12-2023	J.A.R.	J.A.R.
44	03-12-2023	J.A.R.	J.A.R.
45	03-12-2023	J.A.R.	J.A.R.
46	03-12-2023	J.A.R.	J.A.R.
47	03-12-2023	J.A.R.	J.A.R.
48	03-12-2023	J.A.R.	J.A.R.
49	03-12-2023	J.A.R.	J.A.R.
50	03-12-2023	J.A.R.	J.A.R.

DETAIL SHEET - 3

GREENWICH GLEN CONDOMINIUMS
ASSESSOR'S PLAT T.C. LOTS 100, 133, AND 764
WEST WARWICK, RHODE ISLAND

PREPARED FOR:
FRANKLIN COMPANIES
P.O. BOX 9402
PROVIDENCE, RHODE ISLAND 02940

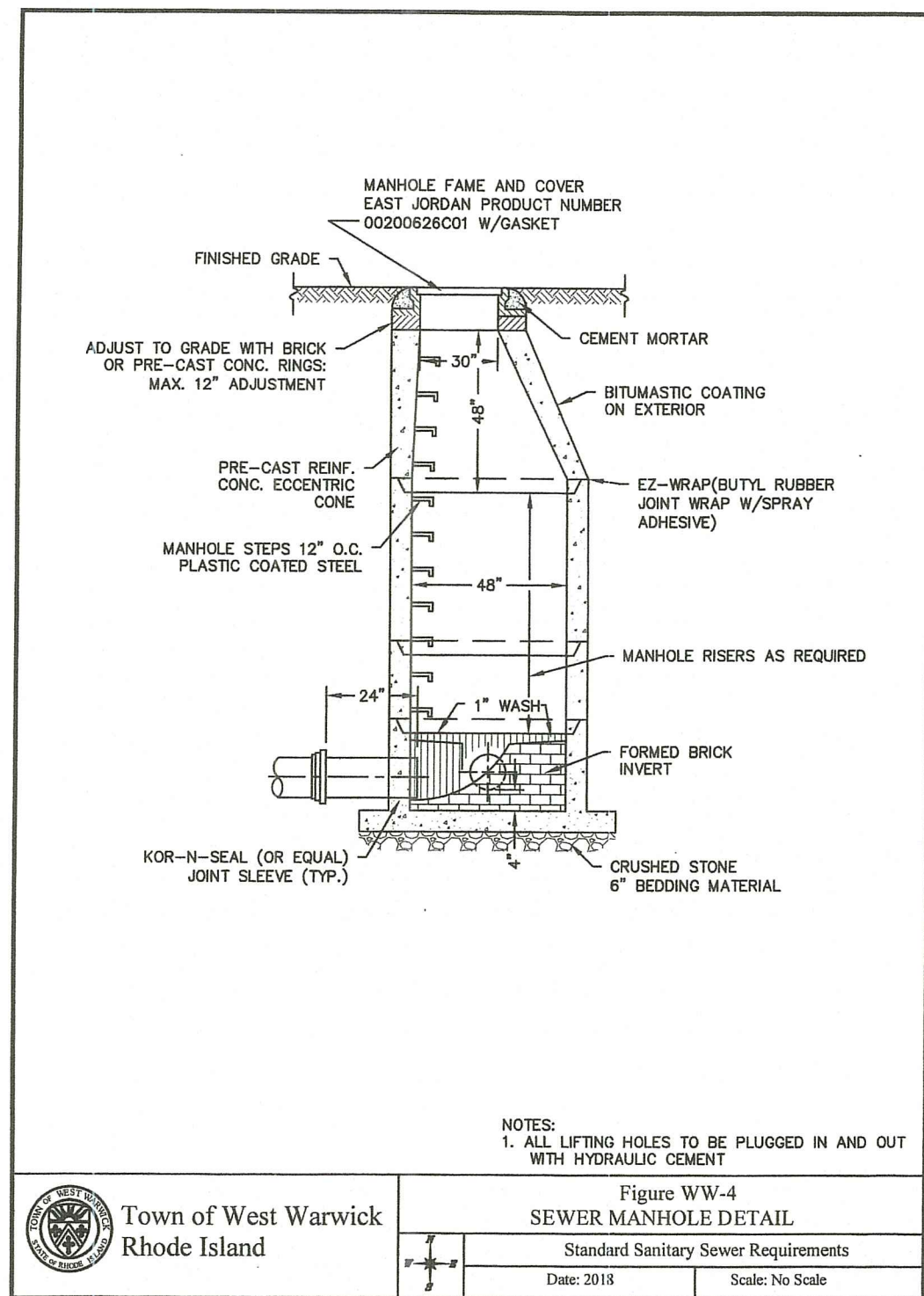
DESIGN BY: J.A.R.
DATE: _____

APPROVED WITH CONDITIONS AS SPECIFIED IN THE LETTER OF APPROVAL DATED: MAY 18 2023 FILE # 22-0115
NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL APPROVED PLANS MUST BE AT CONSTRUCTION SITE

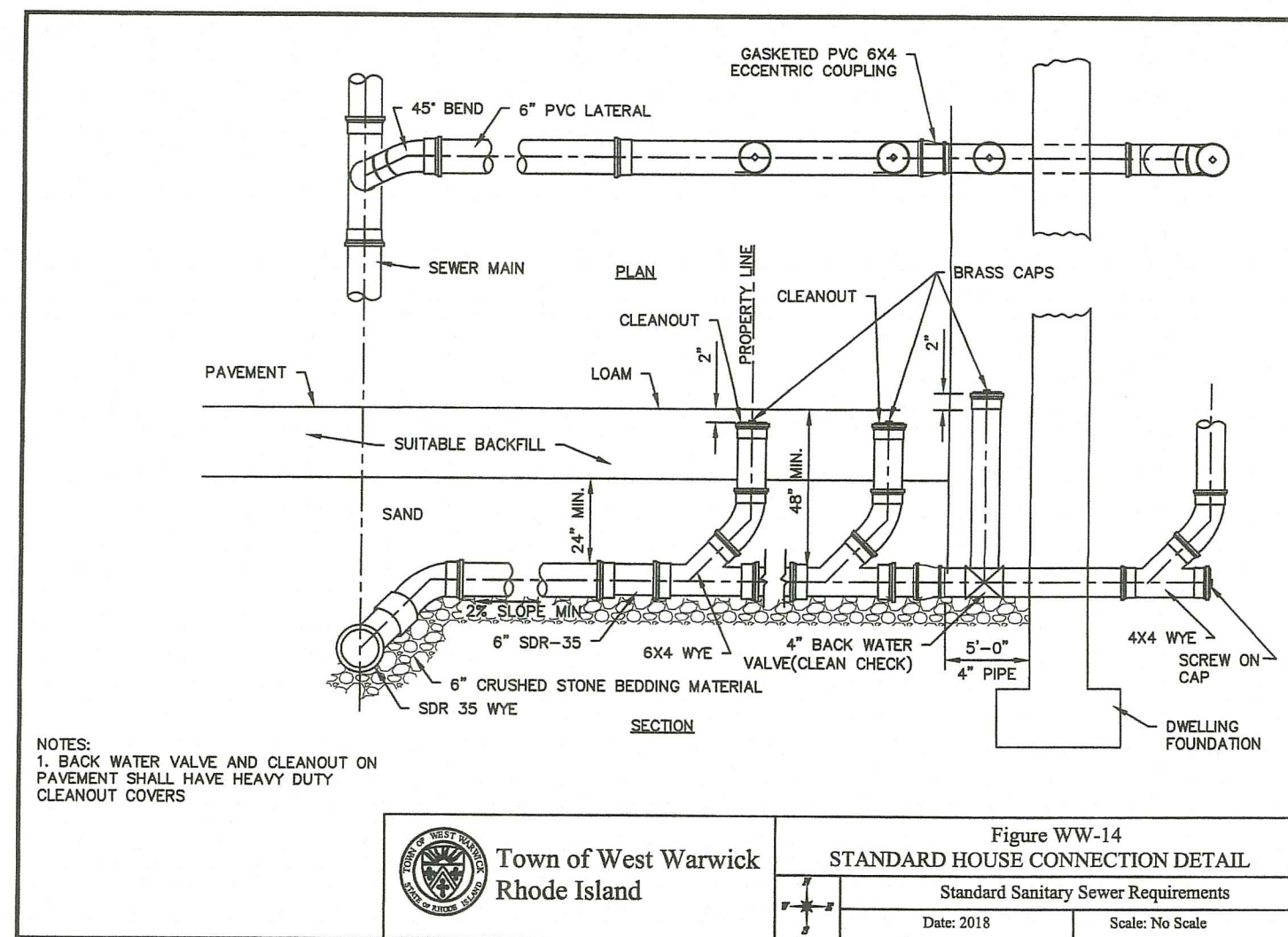
PLANNING BOARD APPROVED - WEST WARWICK, RI

CHAIRMAN: _____
DATE: _____

98 JOB NO. 09195-00-000 COPYRIGHT 2023 BY DIPRETE ENGINEERING ASSOCIATES, INC.



SANITARY MANHOLE
NOT TO SCALE



HOUSE CONNECTION DETAIL (GRAVITY SEWER)
NOT TO SCALE

GENERAL SEWER NOTES

- INSTALLATION OF THE SEWERAGE FACILITIES SHALL BE IN ACCORDANCE WITH THE TOWN OF WEST WARWICK WASTE WATER DIVISION "STANDARD SANITARY SEWER REQUIREMENTS" IN EFFECT ON THE DATE PART I OF THE SEWER PERMIT AGREEMENT IS EXECUTED.
- PRIOR TO RECEIVING AUTHORIZATION TO CONSTRUCT, ALL MATERIALS SHALL MEET THE STANDARDS AND RECEIVE THE WRITTEN APPROVAL, BASED ON MANUFACTURERS' DRAWINGS AND OTHER DATA, OF THE SEWER AUTHORITY OR ITS REPRESENTATIVE.
- ALL SEWERAGE FACILITIES SHALL MEET TESTING AND CLEANING REQUIREMENTS PRIOR TO ACCEPTANCE.
- AS-BUILT DRAWING SHALL BE FURNISHED AS A CONDITION FOR ACCEPTANCE OF THE NEW SEWERAGE FACILITIES.
- NO FLOW WILL BE ACCEPTED UNTIL ALL ABOVE STEPS ARE COMPLETED AND COMPLETION CERTIFICATE IS ISSUED.
- AFTER THE DEVELOPERS HAS "STAKED OUT" THE FACILITIES TO BE CONSTRUCTED AND HAS THE APPROVE MATERIALS ON THE JOB, THE SEWER AUTHORITY SHALL BE NOTIFIED AT LEAST TWO WORKING DAYS IN ADVANCE OF CONSTRUCTION IN ORDER FOR IT TO ARRANGE FOR ITS INSPECTOR.
- ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE APPROVE PLANS AND MATERIALS, STANDARD AND SPECIAL DETAILS, AND STANDARD SPECIFICATION. ANY WORK NOT MEETING THE APPROVED STANDARDS SHALL BE IMMEDIATELY REMOVED AND REPLACED AT THE FULL RESPONSIBILITY AND COST/EXPENSE TO THE DEVELOPER.
- THE CONTRACTOR SHALL BE CONFINE HIS OPERATIONS AND ACTIVATES FOR CONSTRUCTION PURPOSES WITHIN THE STREET LINES, EASEMENTS AND/OR RIGHT-OF-WAY AS SHOWN ON THE DRAWINGS.
- ALL AREAS DISTURBED BY THE CONTRACTOR SHALL BE RESTORED TO THEIR ORIGINAL CONDITION AT NO EXTRA COST TO THE OWNER. ALL GRASSSED AREAS DISTURBED BY THE CONTRACTOR'S OPERATIONS SHALL BE LOAMED AND SEEDED.
- LOCATION AND DEPTHS OF EXISTING UTILITIES ARE APPROXIMATE AND HAVE BEEN PLOTTED FROM THE BEST AVAILABLE INFORMATION. THE CONTRACTOR SHALL VERIFY LOCATIONS OF ALL EXISTING UTILITIES AND NOTIFY THE APPROPRIATE UTILITY AUTHORITIES INCLUDING "DIG SAFE" PRIOR TO STARTING WORK. ANY DAMAGE TO UTILITIES CAUSED BY THE CONTRACTOR'S OPERATIONS SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR AND COST OF REPAIRS SHALL BE BORNE BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE OWNER.
- VERTICAL SEPARATION OF SEWER AND WATER MAINS SHALL BE 1.5 CLEAR OR AS OTHERWISE APPROVED IN WRITING BY LOCAL WATER DEPARTMENT HAVING JURISDICTION.
- APPROVAL OF THE ROAD OPENING SHALL BE OBTAINED BY CONTRACTOR PRIOR TO CONSTRUCTION FROM THE TOWN OF WEST WARWICK DIRECTOR OF PUBLIC WORKS.
- IF ODORS ARE DEVELOPED AS A RESULT OF THE LOW PRESSURE SYSTEM, THE DEVELOPER WILL BE REQUIRED TO INSTALL AND MAINTAIN AN ODOR CONTROL SYSTEM.

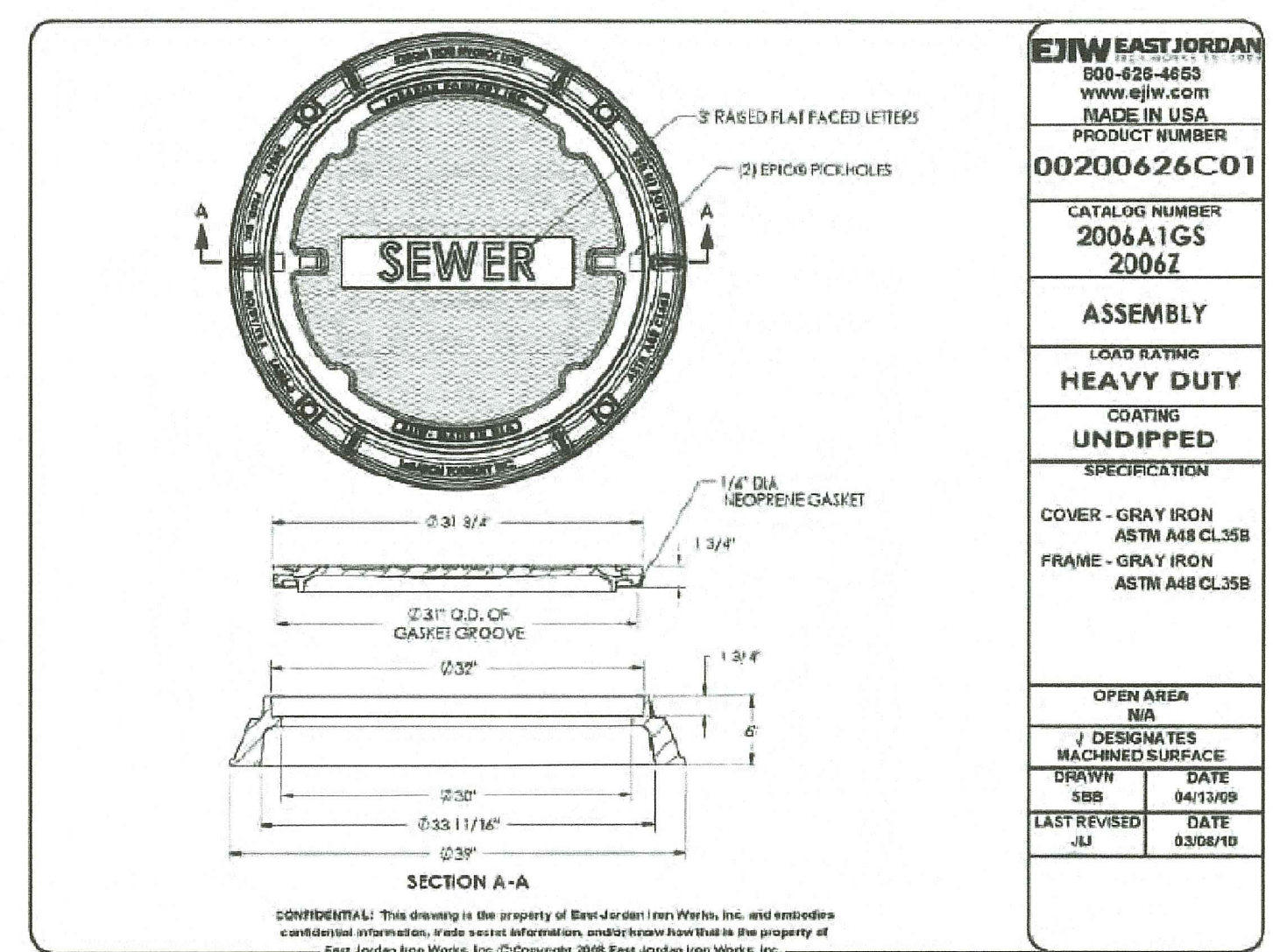
SEWER LINE / WATER MAIN SEPARATION POLICY FOR DESIGN OF SANITARY SEWERS

- A. LATERAL PLACEMENT OF SEWERS AND WATER MAINS**
- SEWERS SHALL BE LAID AT LEAST 10 FEET HORIZONTALLY FROM ANY EXISTING OR PROPOSED WATERMAIN. THE DISTANCE SHALL BE MEASURED EDGE-TO-EDGE. THERE IS NO MINIMUM VERTICAL SEPARATION REQUIRED PROVIDED THE 10 FOOT HORIZONTAL SEPARATION IS MAINTAINED.
- IN CASES WHERE IT IS NOT POSSIBLE TO MAINTAIN A 10 FOOT HORIZONTAL SEPARATION, THE DIVISION MAY ALLOW DEVIATION ON A CASE BY CASE BASIS, IF SUPPORTED BY DATA FROM THE DESIGN ENGINEER. SUCH DEVIATION MAY ALLOW INSTALLATION OF THE SEWER CLOSER TO A WATERMAIN, PROVIDED THAT:
- THE SEWER AND WATER MAIN ARE LAID IN SEPARATE TRENCHES, OR
 - THE SEWER AND WATER MAIN MAY BE INSTALLED IN THE SAME TRENCH WITH THE WATERMAIN PLACED ON A BENCH OF UNDISTURBED EARTH, AND
 - IN EITHER CASE, THE CROWN OF THE SEWER SHALL BE AT LEAST 18 INCHES BELOW THE INVERT OF THE WATERMAIN.
- IN SITUATIONS WHERE IT IS IMPOSSIBLE TO OBTAIN PROPER HORIZONTAL AND VERTICAL SEPARATION AS STIPULATED ABOVE, THE FOLLOWING PROTECTION SHALL BE PROVIDED:
- DESIGN AND CONSTRUCTION OF THE SEWER EQUAL TO WATER MAIN PIPE (CEMENT-LINED DUCTILE IRON OR OTHER AWWA-APPROVED MATERIAL FOR POTABLE WATER CONVEYANCE), AND PRESSURE TESTED IN ACCORDANCE WITH AWWA SPECIFICATIONS.
- B. SEWERS CROSSING WATER MAINS**
- SEWERS CROSSING OVER WATER MAINS SHOULD BE AVOIDED, BUT IF CONDITIONS WARRANT THIS SITUATION, THEN ADEQUATE STRUCTURAL SUPPORT SHALL BE PROVIDED FOR THE SEWER TO MAINTAIN LINE AND GRADE. SEWERS CROSSING UNDER WATER MAINS SHALL BE LAID TO PROVIDE A MINIMUM VERTICAL SEPARATION OF 18 INCHES BETWEEN THE INVERT OF THE WATER MAIN AND THE CROWN OF THE SEWER. THE CROSSING SHALL BE ARRANGED SO THAT SEWER JOINTS WILL BE EQUIDISTANT AND AS FAR AS POSSIBLE FROM THE WATER MAIN JOINTS.
- WHERE CONDITIONS PREVENT AN 18 INCH VERTICAL SEPARATION FROM BEING MAINTAINED, THE FOLLOWING METHODS SHALL BE SPECIFIED:
- THE SEWER SHALL BE DESIGNED AND CONSTRUCTED EQUAL TO WATER MAIN PIPE (CEMENT-LINED DUCTILE IRON PIPE, PVC OR OTHER AWWA-APPROVED MATERIAL FOR POTABLE WATER CONVEYANCE) FOR A DISTANCE OF 12 FEET ON EACH SIDE OF THE CROSSING, MEASURED PERPENDICULAR TO THE WATER MAIN AND PRESSURE TESTED IN ACCORDANCE WITH AWWA SPECIFICATIONS, OR
 - ANY OTHER METHODS, IF SUPPORTED BY DATA FROM THE DESIGN ENGINEER, WHICH ENSURE ADEQUATE WATER TIGHTNESS AND ARE SATISFACTORY TO THE DIVISION.

Diprete Engineering
 Two Stafford Court, Cranston, RI 02920
 Tel: 401-943-1000 Fax: 401-64-6006 www.diprete-eng.com

KEVIN DEMERS
 REGISTERED PROFESSIONAL ENGINEER
 CIVIL

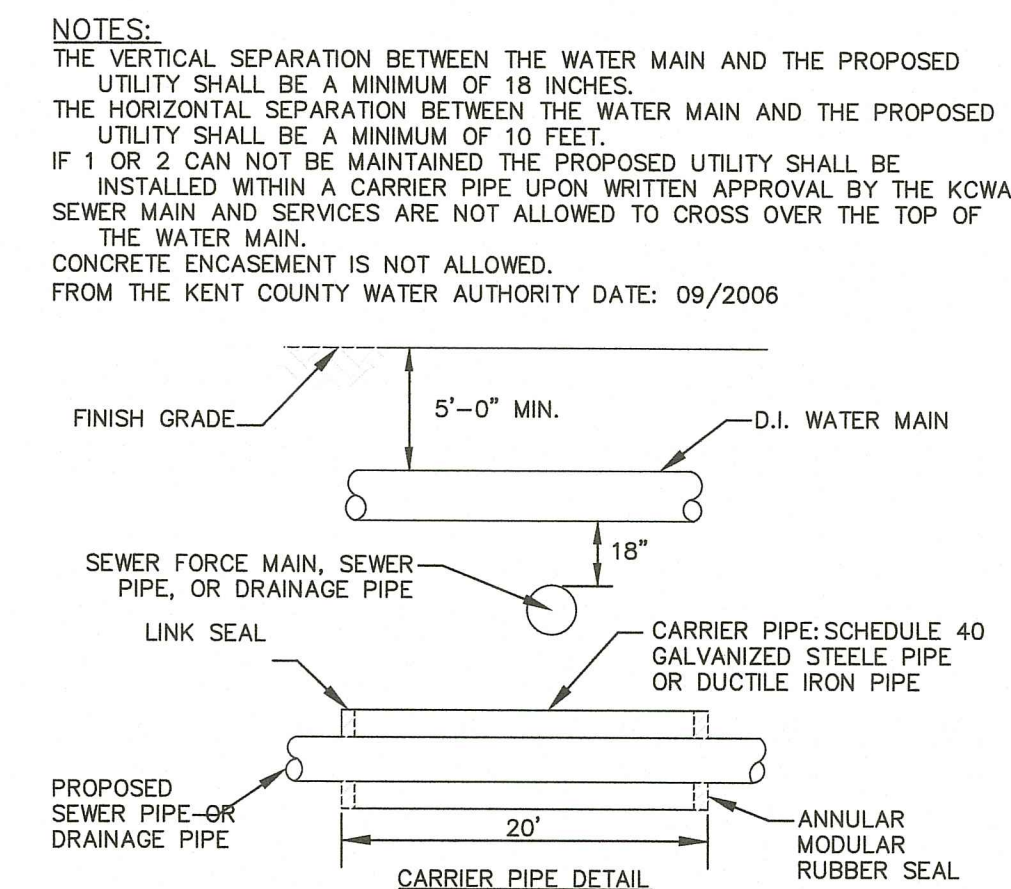
RI Environmental Management
 APR 26 2023
 Office of Water Resources



SEWER MANHOLE FRAME AND COVER DETAIL
NOT TO SCALE

LEAKAGE AND PRESSURE TESTING FOR SEWER FORCE MAINS AND WATERMAINS

- GENERAL**
 HYDROSTATIC AND LEAKAGE TESTS SHALL BE PERFORMED ON ALL COMPLETED SECTIONS OF NEWLY INSTALLED SEWER FORCE MAIN AND WATERMAIN PIPELINE IN ACCORDANCE WITH AWWA C600, KCWA, THE TOWN OF WEST WARWICK, AND AS SPECIFIED BELOW.
 THE CONTRACTOR IS RESPONSIBLE FOR FURNISHING ALL LABOR, TOOLS AND EQUIPMENT NECESSARY FOR TESTING.
 - TESTING PROCEDURES**
 ALL AIR SHALL BE EXPULSED AT THE HIGH POINTS AND THE PIPELINE SLOWLY FILLED WITH POTABLE WATER.
 THE INTERNAL PRESSURE SHALL BE BUILT UP TO 150 PSI OR 1.25 OPERATING PRESSURE AND MAINTAINED FOR A PERIOD OF NOT LESS THAN TWO (2) HOURS.
 ALL LEAKS IN THE PIPELINE SHALL BE STOPPED; CRACKED OR DEFECTIVE PIPE, FITTINGS OR ACCESSORIES SHALL BE REMOVED AND REPLACED WITH NEW BY THE CONTRACTOR.
 THE PIPELINE SHALL BE RETESTED AS MAY BE REQUIRED AND NECESSARY UNTIL THE LEAKAGE FALLS WITHIN THE ALLOWABLE DETERMINED FOR THE PIPE NETWORK, AT WHICH TIME THE PIPELINE MAY BE CONSIDERED READY FOR:
 a. WATERMAINS - DISINFECTION STEP
 b. SEWER FORCE MAIN - READY FOR USE
- ALL PIPES SHALL BE DISINFECTED PRIOR TO BEING ACTIVATED IN ACCORDANCE WITH AWWA B-300, AWWA C-601, AND TOWN SPECIFICATIONS. CHLORINATION ACCORDING TO AWWA REQUIREMENTS FOR SERVICE AND MAIN INSTALLATION.



KCWA UTILITY SEPARATION
NOT TO SCALE

THIS IS A SEWER PERMIT. IT IS NOT TO BE USED FOR ANY OTHER PURPOSES UNLESS STATED OTHERWISE. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO OBTAIN ALL NECESSARY PERMITS AND APPROVALS FROM THE APPROPRIATE AGENCIES. DIPRETE ENGINEERING DOES NOT WARRANT PLANS BY ANY OTHER PARTY. THE CONTRACTOR IS RESPONSIBLE FOR ALL OF THE MEANS, METHODS, MATERIALS, AND WORKMANSHIP IN THE EXECUTION OF THIS PLAN AND DESIGN. ONLY DIPRETE ENGINEERING ASSUMES RESPONSIBILITY FOR THE ACCURACY OF THE INFORMATION PROVIDED IN THESE PLANS. THE USER OF THESE PLANS SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM THE APPROPRIATE AGENCIES.

NO.	DATE	DESCRIPTION	BY
1	4-27-2023	ORDER COMMENTS	J.A.R.
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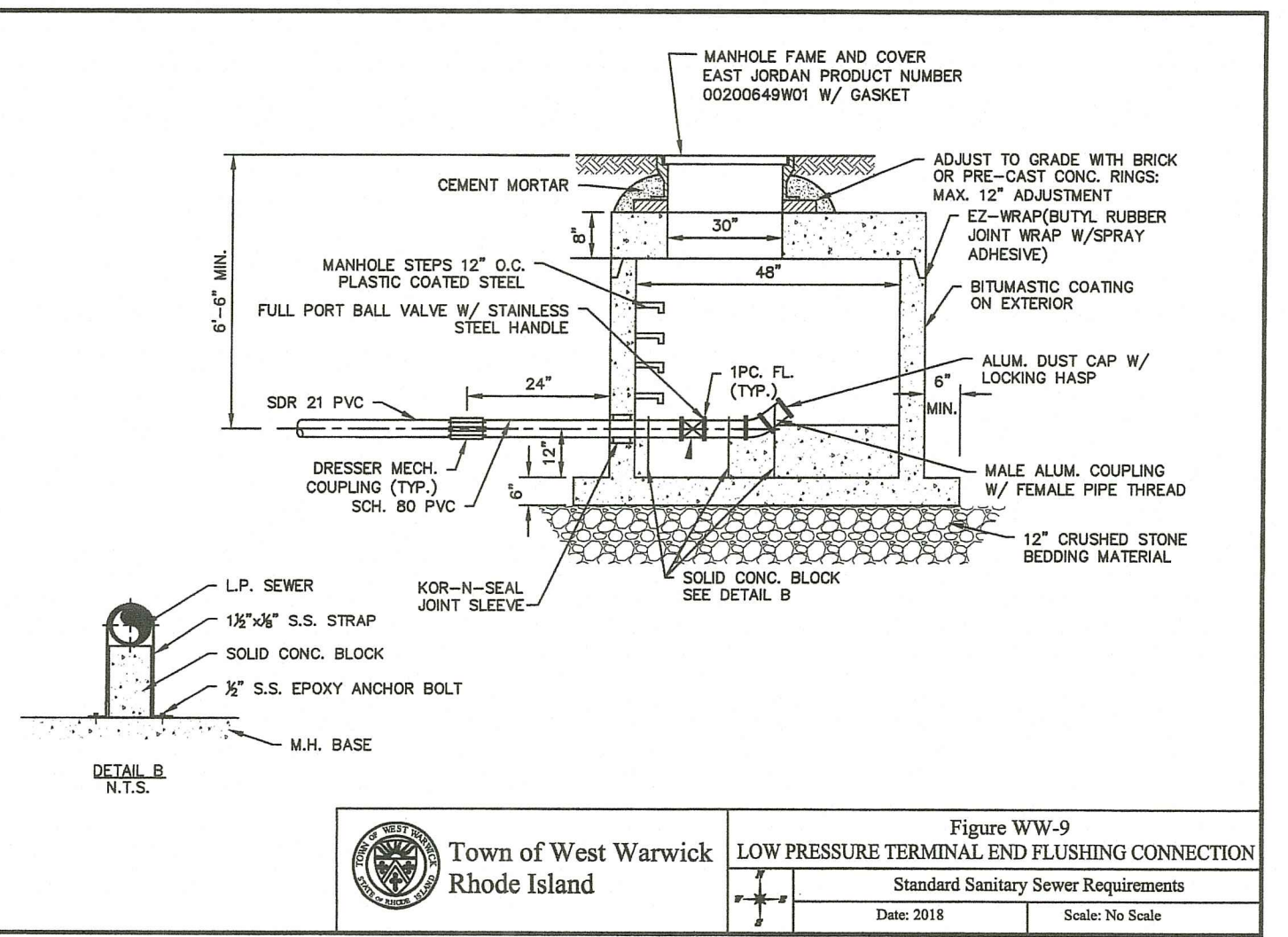
RI DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
 OFFICE OF WATER RESOURCES
 FRESHWATER WETLANDS PROGRAM

NOTE PER DEM:
 Kindly be advised that this Permit is not equivalent to a verification of the type or extent of freshwater wetlands on site.

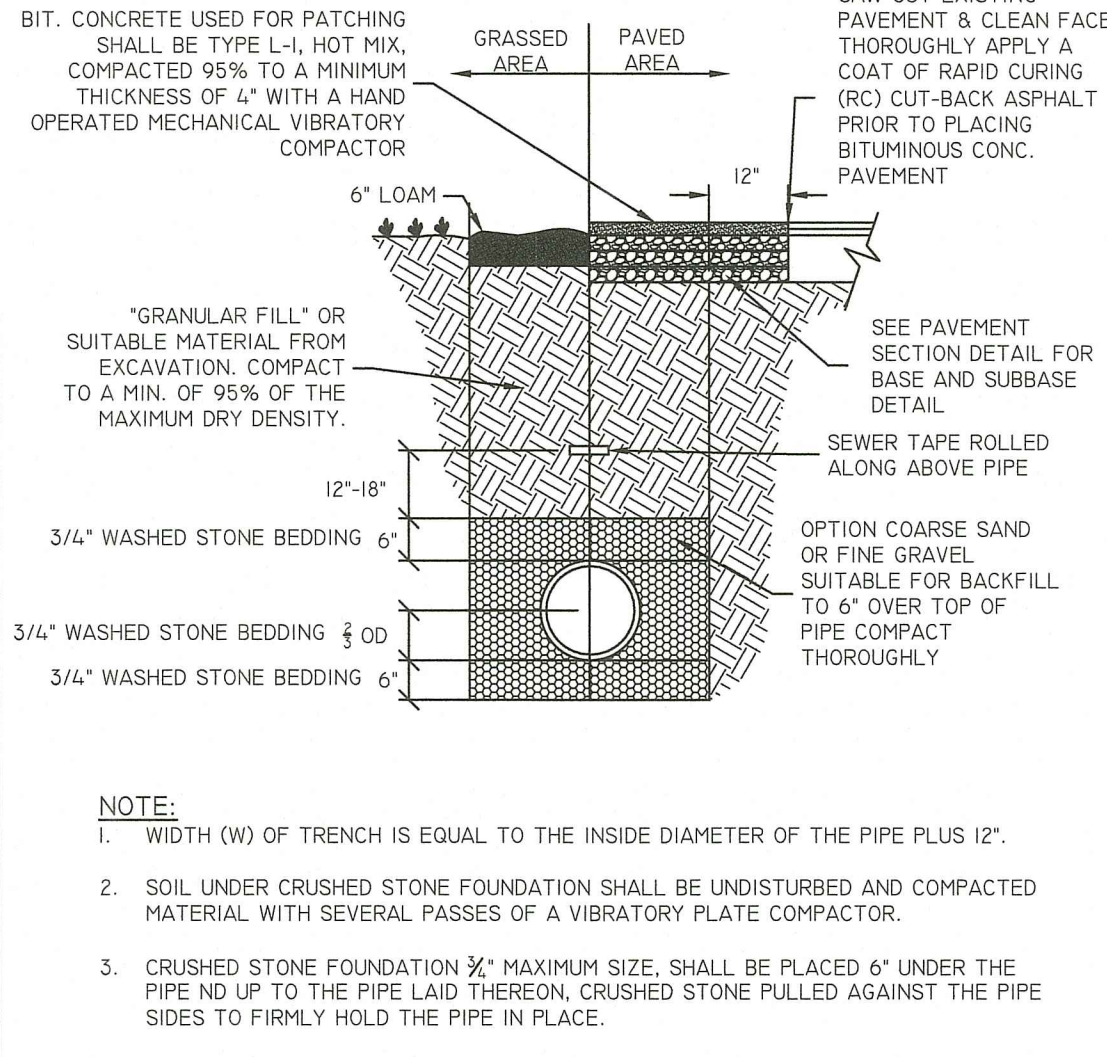
RI DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
 OFFICE OF WATER RESOURCES
 FRESHWATER WETLANDS PROGRAM
 APPROVED WITH CONDITIONS AS SPECIFIED IN THE LETTER OF APPROVAL
 DATED: MAY 18 2023 FILE #: 22-0115
 NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL
 APPROVED PLANS MUST BE AT CONSTRUCTION SITE
Andy L. Freeman

PLANNING BOARD APPROVED - WEST WARWICK, RI

CHAIRMAN: _____
 DATE: _____



TERMINAL END FLUSHING CONNECTION DETAIL (LOW PRESSURE SEWER)
NOT TO SCALE



SEWER TRENCH DETAIL
NOT TO SCALE

THIS PLAN SET MAY NOT BE USED FOR CONSTRUCTION PURPOSES UNLESS STAMPED, SIGNED FOR CONSTRUCTION AND STAMPED BY REGISTERED PROFESSIONAL ENGINEER OF DIPRETE ENGINEERING. DIPRETE ENGINEERING ONLY WARRANTS PLANS ON A DIPRETE ENGINEERING TITLE BLOCK DATED BY REGISTERED PROFESSIONAL ENGINEER. DIPRETE ENGINEERING DOES NOT WARRANT PLANS BY ANY OTHER PARTY. THE CONTRACTOR IS RESPONSIBLE FOR ALL OF THE REVISIONS AND COMPLIANCE IN THE IMPLEMENTATION OF THE PLAN AND DESIGN. ONLY DIPRETE ENGINEERING ASSUMES NO RESPONSIBILITY FOR ANY OTHER REVISIONS OR LOCATIONS OF EXISTING UTILITIES. SEE UTILITIES MAPS ON FILE.

NO.	DATE	DESCRIPTION	BY
1	02-22-2023	REVISION COMMENTS	J.A.R.
2	03-12-2023	REVISION COMMENTS	J.A.R.
3	03-12-2023	REVISION COMMENTS	J.A.R.

DESIGN BY: K. J. D.
 DRAWN BY: J. A. R.

DETAIL SHEET - 5
GREENWICH GLEN CONDOMINIUMS
 ASSESSOR'S PLAT 12 LOTS 130, 131, AND 7-04
 WEST WARWICK, RHODE ISLAND
 PREPARED FOR:
FRANKLIN COMPANIES
 P.O. BOX 9402
 PROVIDENCE, RHODE ISLAND 02940

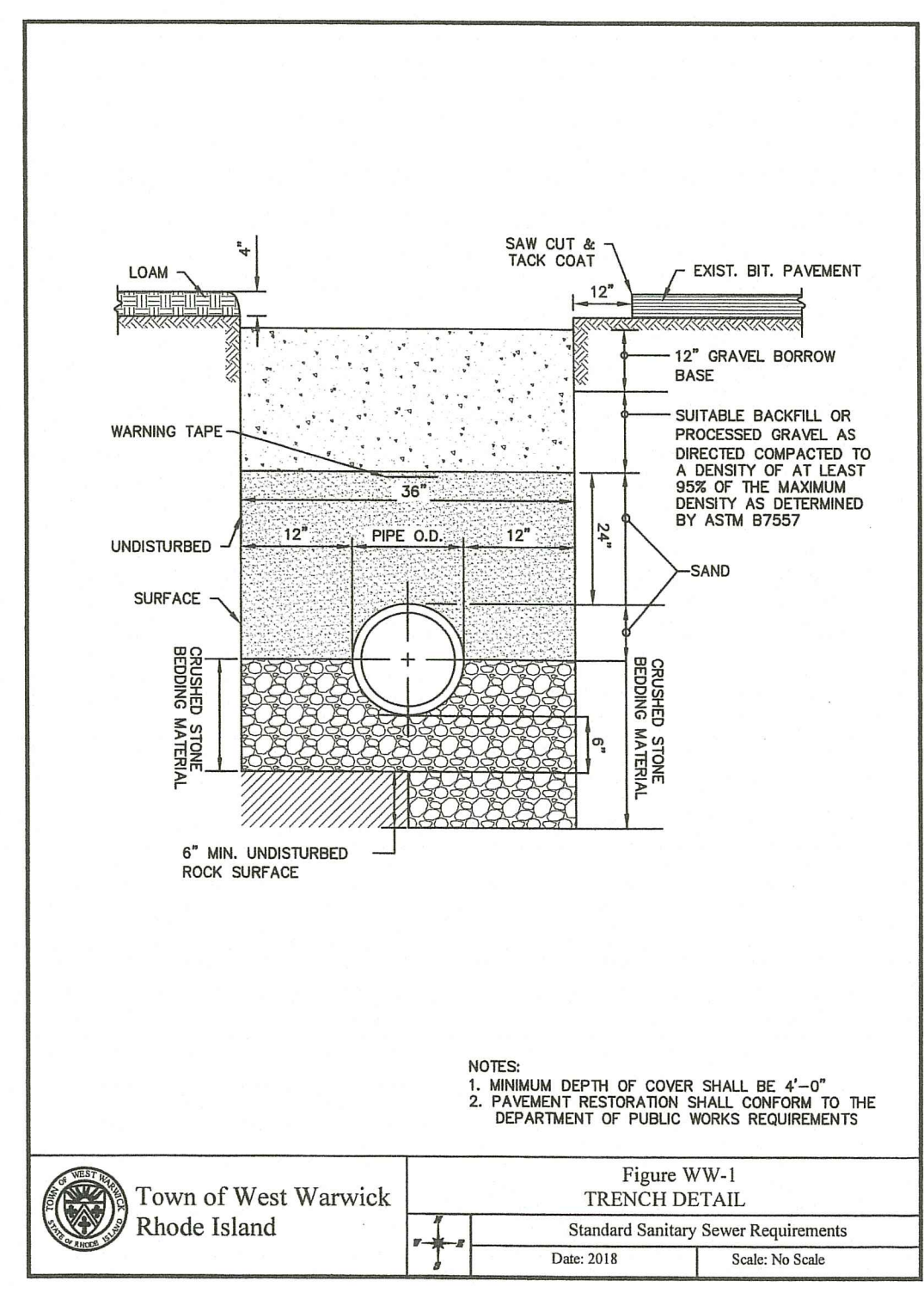


Figure WW-1
TRENCH DETAIL
 Standard Sanitary Sewer Requirements
 Date: 2018 Scale: No Scale

TRENCH DETAIL (GRAVITY SEWER)
 NOT TO SCALE

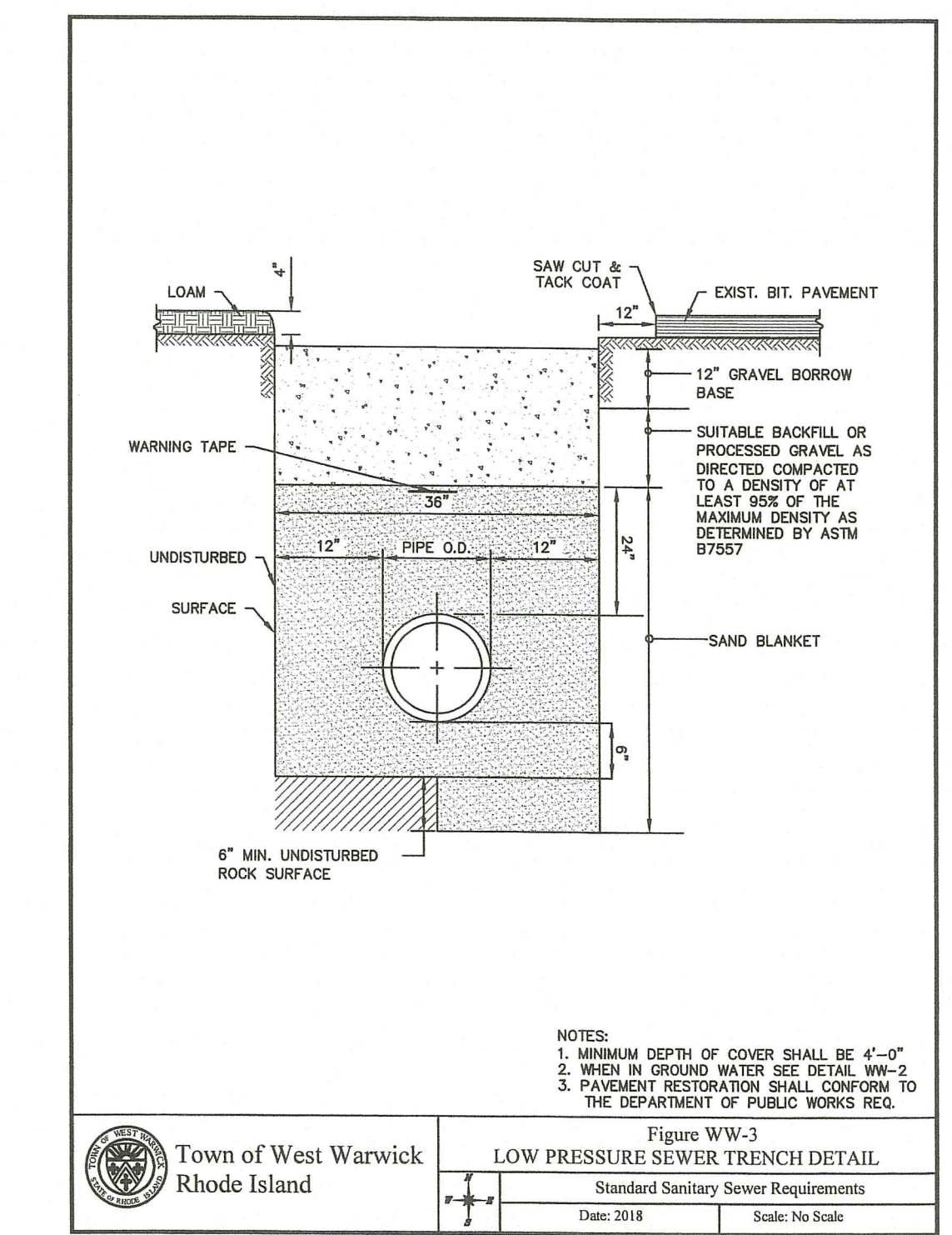


Figure WW-3
LOW PRESSURE SEWER TRENCH DETAIL
 Standard Sanitary Sewer Requirements
 Date: 2018 Scale: No Scale

TRENCH DETAIL (LOW PRESSURE SEWER)
 NOT TO SCALE

RI DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
 OFFICE OF WATER RESOURCES
 FRESHWATER WETLANDS PROGRAM
 APPROVED WITH CONDITIONS AS SPECIFIED IN THE LETTER OF APPROVAL
 DATED: MAY 18 2023 FILE #: 22-0115
 NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL
 APPROVED PLANS MUST BE AT CONSTRUCTION SITE
Handwritten Signature

PLANNING BOARD APPROVED - WEST WARWICK, RI
 CHAIRMAN: _____
 DATE: _____

CASCADE SEPARATOR DESIGN NOTES

THE STANDARD CS-3 CONFIGURATION IS SHOWN. ALTERNATE CONFIGURATIONS ARE AVAILABLE AND ARE LISTED BELOW. SOME CONFIGURATIONS MAY BE COMBINED TO SUIT SITE REQUIREMENTS.

CONFIGURATION DESCRIPTION

- GRATED INLET ONLY (NO INLET PIPE)
- GRATED INLET WITH INLET PIPE OR PIPES
- CURB INLET ONLY (NO INLET PIPE)
- CURB INLET WITH INLET PIPE OR PIPES

SITE SPECIFIC DATA REQUIREMENTS

STRUCTURE ID	
WATER QUALITY FLOW RATE (cfs [L/s])	
PEAK FLOW RATE (cfs [L/s])	
RETURN PERIOD OF PEAK FLOW (yrs)	
RIM ELEVATION	
PIPE DATA	
INLET PIPE 1	
INLET PIPE 2	
OUTLET PIPE	

NOTES / SPECIAL REQUIREMENTS:

GENERAL NOTES

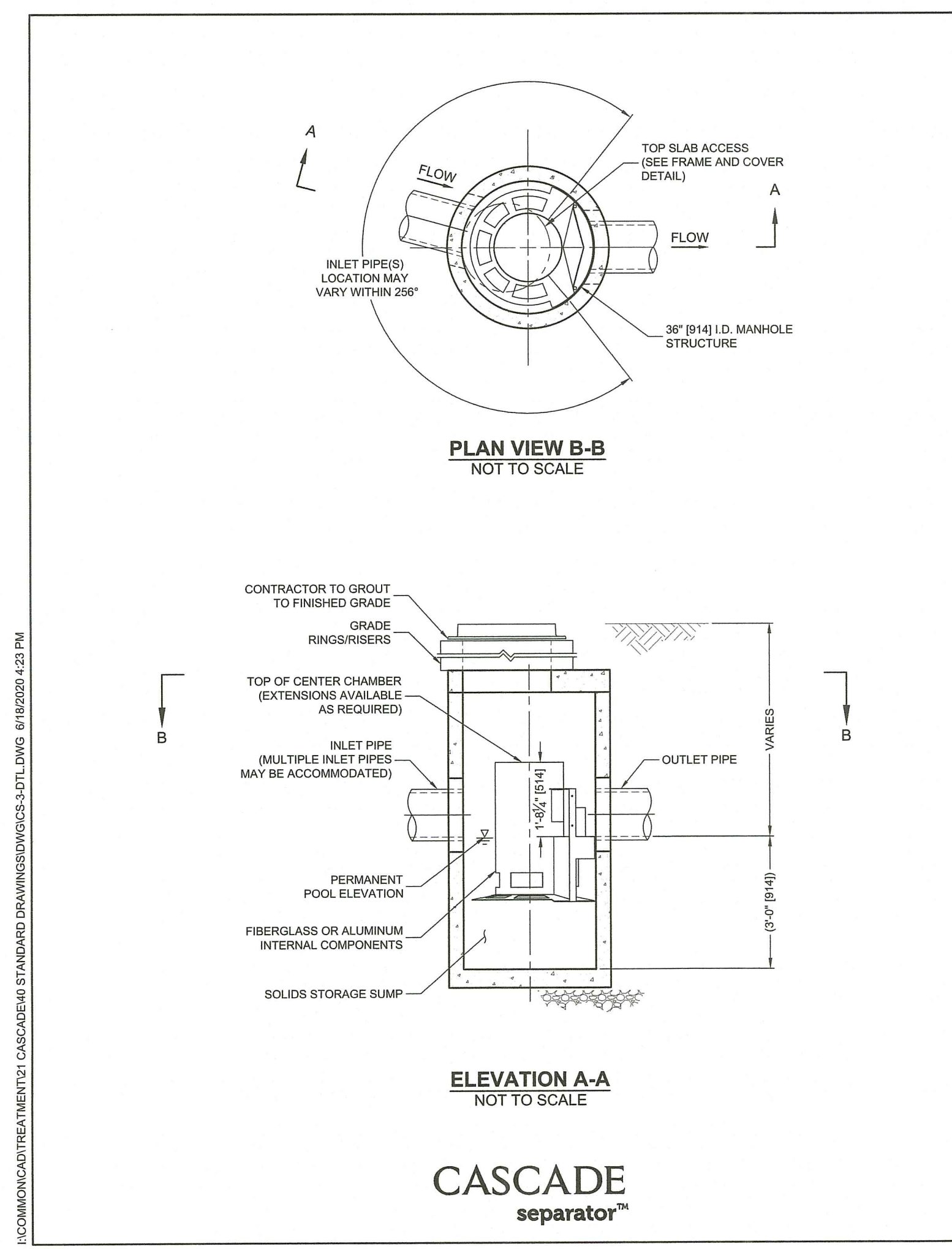
- CONTECH TO PROVIDE ALL MATERIALS UNLESS NOTED OTHERWISE.
- FOR SITE SPECIFIC DRAWINGS WITH DETAILED STRUCTURE DIMENSIONS AND WEIGHT, PLEASE CONTACT YOUR CONTECH ENGINEERED SOLUTIONS LLC REPRESENTATIVE. www.contechES.com
- CASCADE SEPARATOR WATER QUALITY STRUCTURE SHALL BE IN ACCORDANCE WITH ALL DESIGN DATA AND INFORMATION CONTAINED IN THIS DRAWING. CONTRACTOR TO CONFIRM STRUCTURE MEETS REQUIREMENTS OF PROJECT.
- CASCADE SEPARATOR STRUCTURE SHALL MEET AASHTO HS20 LOAD RATING, ASSUMING EARTH COVER OF 0' - 2' (610), AND GROUNDWATER ELEVATION AT, OR BELOW, THE OUTLET PIPE INVERT ELEVATION. ENGINEER OF RECORD TO CONFIRM ACTUAL GROUNDWATER ELEVATION. CASTINGS SHALL MEET AASHTO M308 AND BE CAST WITH THE CONTECH LOGO.
- CASCADE SEPARATOR STRUCTURE SHALL BE PRECAST CONCRETE CONFORMING TO ASTM C478 AND AASHTO LOAD FACTOR DESIGN METHOD.
- ALTERNATE UNITS ARE SHOWN IN MILLIMETERS [mm].

INSTALLATION NOTES

- ANY SUB-BASE, BACKFILL DEPTH, AND/OR ANTI-FLOTATION PROVISIONS ARE SITE-SPECIFIC DESIGN CONSIDERATIONS AND SHALL BE SPECIFIED BY ENGINEER OF RECORD.
- CONTRACTOR TO PROVIDE EQUIPMENT WITH SUFFICIENT LIFTING AND REACH CAPACITY TO LIFT AND SET THE CASCADE SEPARATOR MANHOLE STRUCTURE.
- CONTRACTOR TO INSTALL JOINT SEALANT BETWEEN ALL STRUCTURE SECTIONS AND ASSEMBLE STRUCTURE.
- CONTRACTOR TO PROVIDE, INSTALL, AND GROUT INLET AND OUTLET PIPE(S). MATCH PIPE INVERTS WITH ELEVATIONS SHOWN. ALL PIPE CENTERLINES TO MATCH PIPE OPENING CENTERLINES.
- CONTRACTOR TO TAKE APPROPRIATE MEASURES TO ASSURE UNIT IS WATER TIGHT, HOLDING WATER TO FLOWLINE INVERT MINIMUM. IT IS SUGGESTED THAT ALL JOINTS BELOW PIPE INVERTS ARE GROUDED.

CONTECH ENGINEERED SOLUTIONS LLC
 www.contechES.com
 9025 Centre Pointe Dr., Suite 400, West Chester, OH 45399
 800-338-1122 513-645-7000 513-645-7993 FAX

CS-3 CASCADE SEPARATOR STANDARD DETAIL



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CASCADE SEPARATOR DESIGN NOTES

THE STANDARD CS-5 CONFIGURATION IS SHOWN. ALTERNATE CONFIGURATIONS ARE AVAILABLE AND ARE LISTED BELOW. SOME CONFIGURATIONS MAY BE COMBINED TO SUIT SITE REQUIREMENTS.

CONFIGURATION DESCRIPTION

- GRATED INLET ONLY (NO INLET PIPE)
- GRATED INLET WITH INLET PIPE OR PIPES
- CURB INLET ONLY (NO INLET PIPE)
- CURB INLET WITH INLET PIPE OR PIPES

SITE SPECIFIC DATA REQUIREMENTS

STRUCTURE ID	
WATER QUALITY FLOW RATE (cfs [L/s])	
PEAK FLOW RATE (cfs [L/s])	
RETURN PERIOD OF PEAK FLOW (yrs)	
RIM ELEVATION	
PIPE DATA	
INLET PIPE 1	
INLET PIPE 2	
OUTLET PIPE	

NOTES / SPECIAL REQUIREMENTS:

GENERAL NOTES

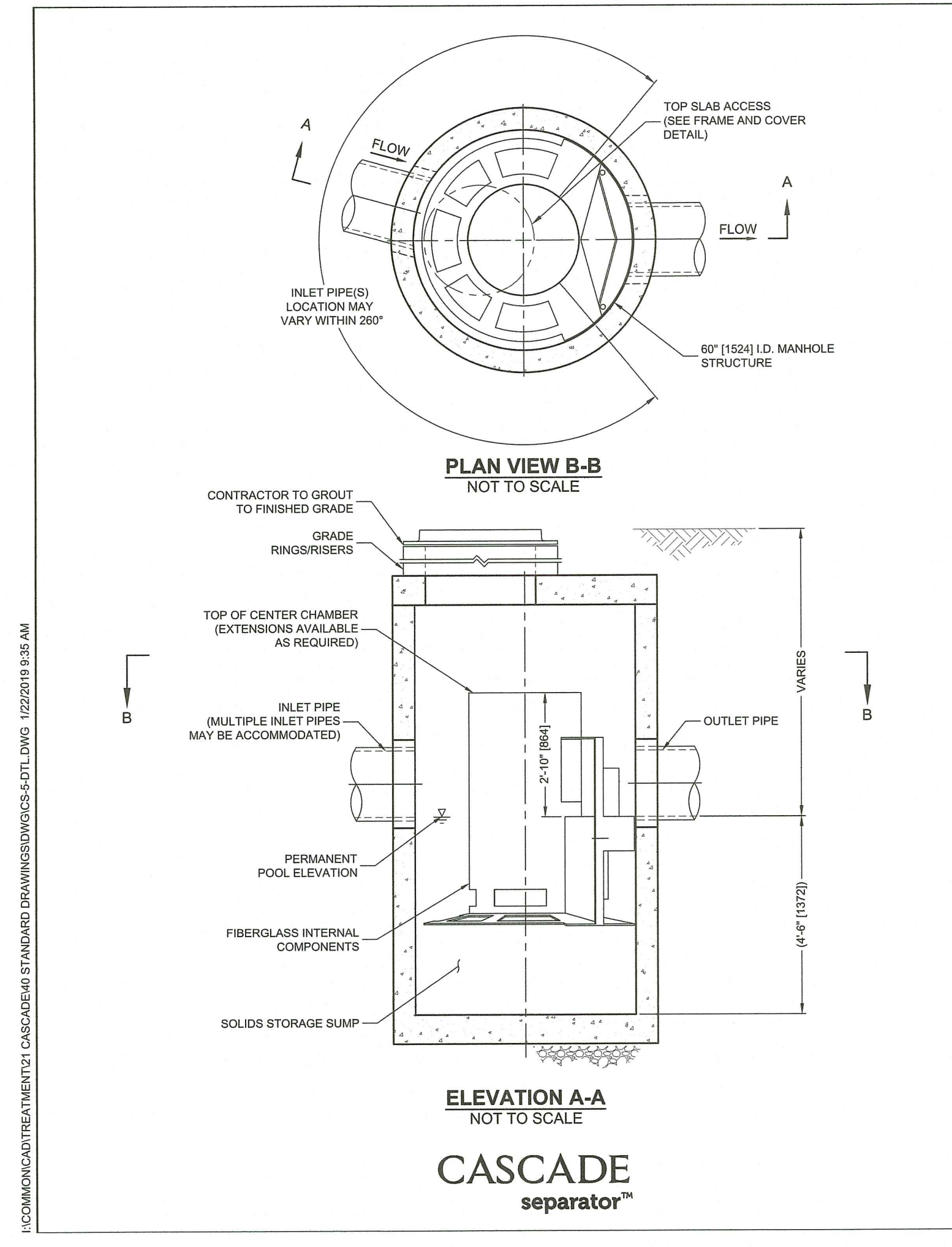
- CONTECH TO PROVIDE ALL MATERIALS UNLESS NOTED OTHERWISE.
- FOR SITE SPECIFIC DRAWINGS WITH DETAILED STRUCTURE DIMENSIONS AND WEIGHT, PLEASE CONTACT YOUR CONTECH ENGINEERED SOLUTIONS LLC REPRESENTATIVE. www.contechES.com
- CASCADE SEPARATOR WATER QUALITY STRUCTURE SHALL BE IN ACCORDANCE WITH ALL DESIGN DATA AND INFORMATION CONTAINED IN THIS DRAWING. CONTRACTOR TO CONFIRM STRUCTURE MEETS REQUIREMENTS OF PROJECT.
- CASCADE SEPARATOR STRUCTURE SHALL MEET AASHTO HS20 LOAD RATING, ASSUMING EARTH COVER OF 0' - 2' (610), AND GROUNDWATER ELEVATION AT, OR BELOW, THE OUTLET PIPE INVERT ELEVATION. ENGINEER OF RECORD TO CONFIRM ACTUAL GROUNDWATER ELEVATION. CASTINGS SHALL MEET AASHTO M308 AND BE CAST WITH THE CONTECH LOGO.
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- ALTERNATE UNITS ARE SHOWN IN MILLIMETERS [mm].

INSTALLATION NOTES

- ANY SUB-BASE, BACKFILL DEPTH, AND/OR ANTI-FLOTATION PROVISIONS ARE SITE-SPECIFIC DESIGN CONSIDERATIONS AND SHALL BE SPECIFIED BY ENGINEER OF RECORD.
- CONTRACTOR TO PROVIDE EQUIPMENT WITH SUFFICIENT LIFTING AND REACH CAPACITY TO LIFT AND SET THE CASCADE SEPARATOR MANHOLE STRUCTURE.
- CONTRACTOR TO INSTALL JOINT SEALANT BETWEEN ALL STRUCTURE SECTIONS AND ASSEMBLE STRUCTURE.
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 800-338-1122 513-645-7000 513-645-7993 FAX

CS-5 CASCADE SEPARATOR STANDARD DETAIL



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RI DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
 OFFICE OF WATER RESOURCES
 FRESHWATER WETLANDS PROGRAM
 NOTE PER DEM: Kindly be advised that this Permit is not equivalent to a verification of the type or extent of freshwater wetlands on site