

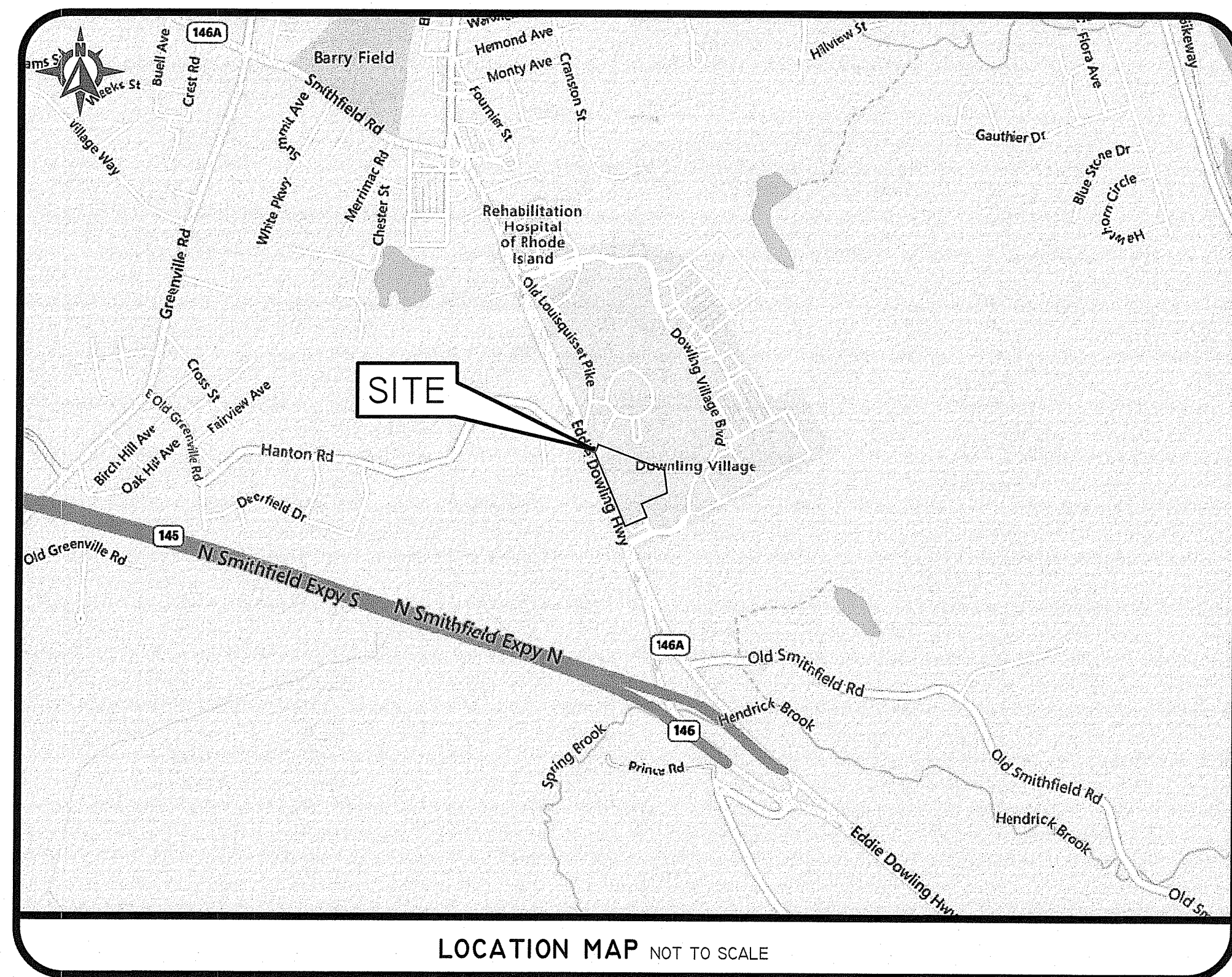
DESIGN DEVELOPMENT PLANS

THE CROSSINGS AT DOWLING VILLAGE

LOCATED ON 322 EDDIE DOWLING HIGHWAY

NORTH SMITHFIELD, RHODE ISLAND

ASSESSOR'S PLAT 13 LOT 70



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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

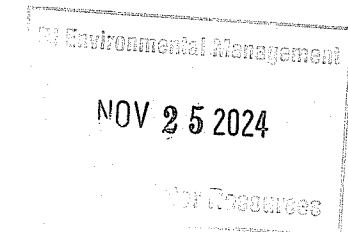
APPROVED WITH CONDITIONS AS

SPECIFIED IN THE LETTER OF APPROVAL

DATED: **DEC 3 0 2024** FILE #: **24-0232**

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

Nancy L. Freeman



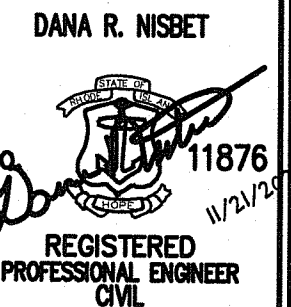
SESC / O&M
THE SOIL EROSION AND SEDIMENT CONTROL PLAN (SESC) AND STORMWATER OPERATION AND MAINTENANCE PLAN (O&M) ARE REQUIRED DOCUMENTS WITH THIS PLAN SET AND MUST BE MAINTAINED BY THE CONTRACTOR AND OWNER ON SITE.

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

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Boston • Providence • Newport



THIS PLAN SET MUST NOT BE USED FOR CONSTRUCTION PURPOSES.
THESE PLANS AND ANY INSTRUMENTS OF SERVICE, PERMITS, OR APPROVALS ARE THE PROPERTY OF DIPRETE ENGINEERING, INC. AND ARE NOT TO 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, INC.
DIPRETE ENGINEERING, INC. WARRANTS THESE PLANS AS A REGISTERED PROFESSIONAL ENGINEER OF DIPRETE ENGINEERING, INC. THE CONSULTING ENGINEER'S INSTRUMENTS OF SERVICE, PERMITS, OR APPROVALS ARE NOT TO 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, INC.
EXISTING UTILITIES SHOWN ON THIS PLAN ARE APPROXIMATE AND NOT TO BE CONSIDERED AS A BASIS FOR DESIGN OR CONSTRUCTION. THE CONSULTING ENGINEER ASSUMES NO RESPONSIBILITY FOR DAMAGE TO EXISTING UTILITIES.

NO.	DATE	DESCRIPTION	BY	DESIGN BY
1	05-12-2024	PERMIT RESPONSE TO COMMENTS	J.M.F.	J.M.F.
2	06-12-2024	REVISIONS TO PERMIT	J.M.F.	J.M.F.
3	06-12-2024	REVISIONS TO PERMIT	J.M.F.	J.M.F.
4	06-12-2024	REVISIONS TO PERMIT	J.M.F.	J.M.F.
5	06-12-2024	REVISIONS TO PERMIT	J.M.F.	J.M.F.
6	06-12-2024	REVISIONS TO PERMIT	J.M.F.	J.M.F.
7	06-12-2024	REVISIONS TO PERMIT	J.M.F.	J.M.F.
8	06-12-2024	REVISIONS TO PERMIT	J.M.F.	J.M.F.
9	06-12-2024	REVISIONS TO PERMIT	J.M.F.	J.M.F.
10	06-12-2024	REVISIONS TO PERMIT	J.M.F.	J.M.F.
11	06-12-2024	REVISIONS TO PERMIT	J.M.F.	J.M.F.
12	06-12-2024	REVISIONS TO PERMIT	J.M.F.	J.M.F.
13	06-12-2024	REVISIONS TO PERMIT	J.M.F.	J.M.F.
14	06-12-2024	REVISIONS TO PERMIT	J.M.F.	J.M.F.
15	06-12-2024	REVISIONS TO PERMIT	J.M.F.	J.M.F.
16	06-12-2024	REVISIONS TO PERMIT	J.M.F.	J.M.F.
17	06-12-2024	REVISIONS TO PERMIT	J.M.F.	J.M.F.
18	06-12-2024	REVISIONS TO PERMIT	J.M.F.	J.M.F.
19	06-12-2024	REVISIONS TO PERMIT	J.M.F.	J.M.F.
20	06-12-2024	REVISIONS TO PERMIT	J.M.F.	J.M.F.

COVER SHEET
THE CROSSINGS AT DOWLING VILLAGE
ASSESSOR'S PLAT 13 LOT 70
NORTH SMITHFIELD, RHODE ISLAND
PREPARED FOR:
CANTON EAST HOLDINGS, LLC
C/O ANGELO GRILLI
400 SOUTH COUNTY TRAIL, EXETER, RI 02822

GENERAL NOTES:

- 1. THE SITE IS LOCATED ON THE TOWN OF NORTH SMITHFIELD ASSESSOR'S PLAT IS LOT 70.
2. THE SITE IS APPROXIMATELY 5.47 ACRES AND IS ZONED BH-BUSINESS HIGHWAY.
3. THE OWNER OF AP 15 LOT 70 IS:
CANTON EAST HOLDINGS, LLC
400 SOUTH COUNTY TRAIL, SUITE A207
EXETER, RI 02822
4. THIS SITE IS LOCATED IN FEMA FLOOD ZONE X... REFERENCE FEMA FLOOD INSURANCE RATE MAP 440030107G, MAP REVISED MARCH, 2ND, 2009. (FLOOD PLAIN DESCRIPTIONS SHOWN BELOW).
5. THE BOUNDARY SHOWN IN THIS PLAN SET IS COMPILED FROM DOCUMENTS OF RECORD AND IS NOT TO BE CONSIDERED AS A BOUNDARY SURVEY...
6. CONTOUR DATA SHOWN ON THIS PLAN CONFORMS TO A T-4 TOPOGRAPHICAL SURVEY STANDARD AS ADOPTED BY THE RHODE ISLAND BOARD OF REGISTRATION FOR PROFESSIONAL LAND SURVEYORS...
7. ALL WORK PERFORMED HEREIN IS TO BE GOVERNED BY CURRENT EDITIONS OF THE RHODE ISLAND STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION...
8. THE SITE IS WITHIN A:
GROUNDWATER PROTECTION AREA (RIDEM)
NATURAL HERITAGE AREA (RIDEM)
9. THE SITE IS LOCATED WITHIN THE RIVER PROTECTION ZONE 2 PER THE FRESHWATER WETLANDS BUFFER REGIONS MAP (25-RI-RIC-150-15-3-24).
10. 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:
11. THE SITE IS TO BE SERVICED BY PUBLIC WATER AND PUBLIC SEWER.
12. THE DRAINAGE SYSTEM IS DESIGNED TO MEET THE NORTH SMITHFIELD SUBDIVISION AND LAND DEVELOPMENT REGULATIONS...
13. THE SITE IS PROPOSED TO BE BUILT IN ONE PHASE.
14. SOIL BORINGS COMPLETED BY NEW ENGLAND BORING CONTRACTORS OF NEW HAMPSHIRE AND OBSERVED BY FAIR IN FEBRUARY 2024...
15. WETLAND EDGE DELINEATED BY DIPRETE ENGINEERING AND SURVEYED BY DIPRETE ENGINEERING USING SUBMETER GPS IN FEBRUARY 2023...
16. ANY PROPRIETARY PRODUCTS REFERENCED IN THIS PLAN SET ARE REPRESENTATIVE OF THE MINIMUM DESIGN REQUIREMENTS...
17. THIS PLAN SET MAY REFERENCE AND/OR INCLUDE REPRODUCTIONS OF PROPRIETARY PRODUCTS/DETAILS BY ASSOCIATED SPECIFICATIONS...

SOIL INFORMATION:

(REFERENCE: SOIL MAPPING OBTAINED FROM RISGS. SOIL GEOGRAPHIC DATA DEVELOPED BY THE RHODE ISLAND SOIL SURVEY PROGRAM IN PARTNERSHIP WITH THE NATIONAL COOPERATIVE SOIL SURVEY)
SOIL NAME DESCRIPTION
CEC CANTON AND CHARLTON FINE SANDY LOAMS, VERY ROCKY, 3 TO 15 PERCENT SLOPES

AMERICANS WITH DISABILITIES ACT (ADA) NOTES:

- 1. ALL IMPROVEMENTS MUST COMPLY WITH THE 'AMERICANS WITH DISABILITIES ACT ACCESSIBILITY GUIDELINES' (ADAAG) BY THE US DEPARTMENT OF JUSTICE (CURRENT EDITION).
2. MAXIMUM RUNNING SLOPE ALONG ALL ACCESSIBLE PATHS OF TRAVEL MUST BE 4.5% (0.045 FT/FT), AND MAXIMUM CROSS SLOPE ACROSS ALL ACCESSIBLE PATHS OF TRAVEL MUST BE 1.5% (0.015 FT/FT).
3. ADA PARKING SPACES AND LOADING AREAS: THE STEEPEST SLOPE OF THE SPACE, MEASURED IN ANY DIRECTION (INCLUDING DIAGONALLY), MUST BE LESS THAN OR EQUAL TO 2% (0.02 FT/FT).
4. A MINIMUM 9'x9' LANDING MUST BE PROVIDED IN FRONT OF ALL PUBLICLY ACCESSIBLE BUILDING ENTRANCES/EGRESSES...
5. FOR EVERY 6' (OR FRACTION OF 6') ADA PARKING SPACES, AT LEAST ONE MUST BE A VAN PARKING SPACE...
6. NOTWITHSTANDING THE NOTES LISTED ABOVE, TOWN OR STATE-SPECIFIC STANDARDS MAY BE MORE STRINGENT AND OVERRULE IT...
7. NOTE THAT THE GRADING/PLAN VIEWS AND DETAILS CONTAINED WITHIN THIS PLAN SET MAY NOT SHOW THE DETAIL NECESSARY TO CONSTRUCT WALKWAYS, RAMPS AND SPACES TO COMPLY WITH THE ABOVE REQUIREMENTS...

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...
2. ALL EROSION CONTROL INCLUDING (BUT NOT LIMITED TO) TEMPORARY SWALES AND TEMPORARY SEDIMENT TRAPS, ETC. MUST BE INSTALLED PER THE LATEST EDITION OF THE RHODE ISLAND SOIL EROSION AND SEDIMENT CONTROL (RISSC) HANDBOOK...
3. TEMPORARY SWALES MUST BE USED TO CONTROL RUNOFF DURING CONSTRUCTION OF THE PROPOSED SITE WORK...
4. ONCE THE SEDIMENT TRAPS ARE NO LONGER REQUIRED AND ALL TRIBUTARY AREAS HAVE BEEN STABILIZED, THE TEMPORARY SEDIMENT TRAPS MUST BE CLEANED AND BROUGHT TO FINAL DESIGN GRADE...
5. INLET PROTECTION MUST BE INSTALLED ON ALL CATCH BASINS ONCE CONSTRUCTED.
6. FOR SEQUENCE OF CONSTRUCTION, PROJECT PHASING AND CONSTRUCTION PHASING SEE SESC PLAN.
7. CONTRACTOR MAY MODIFY SEQUENCE OF CONSTRUCTION WITH APPROVAL FROM THE CEOR AND OWNER.
8. IF CONCRETE TRUCKS ARE WASHED OUT ON SITE, ALL WASHOUT MUST BE PERFORMED IN THE DESIGNATED CONCRETE WASHOUT AREA.
9. SLOPES STEEPER THAN 3:1 REQUIRE TEMPORARY EROSION CONTROL BLANKETS...
10. AT THE COMPLETION OF CONSTRUCTION AND PRIOR TO DEMOBILIZATION, CONTRACTOR MUST FLUSH AND CLEAN THE ENTIRE DRAINAGE NETWORK...

SOIL EROSION AND SEDIMENT CONTROL PHASING NOTES:

- 1. OVERALL SITE CONSTRUCTION PHASING TO BE BASED PER POND COMPLEX/ SEDIMENT TRAP CONTRIBUTING CATCHMENT, UNLESS OTHERWISE APPROVED IN WRITING BY THE CEOR.
2. SEDIMENT EROSION CONTROL PHASING TO MINIMIZE DISTURBANCE TO THE MAXIMUM EXTENT PRACTICABLE.
3. ANY AREAS THAT ARE CLEARED AND GRUBBED THAT ARE EITHER A) NOT TRIBUTARY TO A SEDIMENT TRAP, OR B) ARE NOT INTENDED FOR IMMEDIATE DEVELOPMENT/ EARTHWORKING...
4. ALL DRAINAGE OUTFALLS ARE DESIGNED TO BE INSTALLED AT EXISTING GROUND ELEVATION...
5. CONTRACTOR MUST PROVIDE SAW CUTTING AND FULL DEPTH PAVEMENT RESTORATION IN AREAS WHERE SURFACE AND/OR SIDEWALK IS REMOVED FOR UTILITY INSTALLATION.

DEMOLITION NOTES:

- 1. CONTRACTOR MUST NOTIFY 'DIG SAFE' AT 811 (OR 1-888-344-7233) A MINIMUM OF 72 HOURS BEFORE EXCAVATING.
2. CONTRACTOR MUST OBTAIN ALL FEDERAL, STATE, AND MUNICIPAL APPROVALS PRIOR TO THE START OF CONSTRUCTION.
3. CONTRACTOR MUST PERFORM DAILY SWEEPING AT CONSTRUCTION ENTRANCES DURING DEMOLITION AND CONSTRUCTION TO MINIMIZE SEDIMENTS ON EXTERNAL STREETS.
4. ANY EXISTING BUILDINGS(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.
5. CONTRACTOR IS RESPONSIBLE FOR REMOVING AND LEGALLY DISPOSING (R8D) ALL MATERIALS INDICATED ON THE PLANS...
6. IN ADDITION TO THOSE AREAS SPECIFICALLY DESIGNATED ON THE PLANS, ALL DISTURBED AREAS INCLUDING THE CONTRACTOR'S STOCKPILE AND STAGING AREAS WITHIN THE LIMIT OF WORK MUST BE RESTORED TO MATCH THE DESIGN PLANS.
7. CONTRACTOR MUST DOCUMENT LOCATION OF ALL SUBSURFACE UTILITIES REMAINING IN PLACE AFTER DEMOLITION (ACTIVE AND INACTIVE/ABANDONED)...
8. ACTIVE UTILITY LINES AND STRUCTURES NOT SPECIFICALLY NOTED ON PLANS, BUT WHICH ARE ENCOUNTERED TO BE IN CONFLICT WITH THE PROPOSED WORK...
9. CONTRACTOR MUST COORDINATE THE CUTTING AND CAPPING OF ALL UTILITIES WITH THE OWNER, THE MUNICIPALITY, AND ALL APPLICABLE UTILITY ENTITIES HAVING JURISDICTION.
10. 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 FLAGGERS MUST BE EMPLOYED TO ENSURE SAFETY FOR INTERACTION OF CONSTRUCTION VEHICLES AND ACTIVE TRAFFIC.
4. ALL SIGNS, FLAGGERS, TRAFFIC CONTROL DEVICES, AND TEMPORARY TRAFFIC ZONE ACTIVITIES MUST MEET THE REQUIREMENTS OF THE MUTCD LATEST EDITION AND SUBSEQUENT ADDENDUMS.
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... OWNER/DIPRETE ENGINEERING WILL NOT ACCEPT FIELD MEASUREMENTS FROM THE SITE CONTRACTOR.

RIDOT NOTES:

- 1. ALL WORK TO BE DONE WITHIN THE STATE RIGHT OF WAY (ROW) MUST CONFORM TO RHODE ISLAND STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, FEBRUARY 2024...
2. CONTRACTOR MUST OBTAIN A UTILITY CONNECTION PERMIT FOR WORK WITHIN THE STATE RIGHT-OF-WAY (ROW) PRIOR TO CONSTRUCTION...
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...
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...
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, DRAINAGE, AND UTILITY NOTES:

- 1. CONSTRUCTION TO COMMENCE FALL/WINTER 2024 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...
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 PAVED ELEVATIONS AT INTERFACE WITH PROPOSED PAVEMENTS...
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...
7. ALL CUT AND FILL WORK MUST BE DONE UNDER THE DIRECTION OF A PROFESSIONAL GEOTECHNICAL ENGINEER...
8. MATERIAL STOCKPILES MUST NOT BE LOCATED IN THE RIGHT-OF-WAY...
9. ALL EXCESS SOIL, TREES, ROCKS, BOULDERS, AND OTHER REFUSE, MUST BE DISCARDED OFF SITE IN ACCORDANCE WITH ALL FEDERAL, STATE AND LOCAL REGULATIONS...
10. THE SITE WILL HAVE 6' CONCRETE OR GRANITE CURBING...
11. ALL DRAINAGE OUTFALLS ARE DESIGNED TO BE INSTALLED AT EXISTING GROUND ELEVATION...
12. CONTRACTOR MUST HOLD/ SUPPORT RESTORE ALL EXISTING UTILITY COMPONENTS INCLUDING (BUT NOT LIMITED TO) POLES, TRAFFIC LIGHTS AND ABOVEGROUND OBJECTS...
13. CONTRACTOR MUST PROVIDE SAW CUTTING AND FULL DEPTH PAVEMENT RESTORATION IN AREAS WHERE SURFACE AND/OR SIDEWALK IS REMOVED FOR UTILITY INSTALLATION.
14. IF ROADWAY PAVEMENT COURSE IS NOT TO BE INSTALLED FOR 12 MONTHS OR MORE...
15. CONTRACTOR MUST HOLD/ SUPPORT RESTORE ALL EXISTING UTILITY COMPONENTS INCLUDING (BUT NOT LIMITED TO) POLES, TRAFFIC LIGHTS AND ABOVEGROUND OBJECTS...
16. CONTRACTOR MUST HOLD/ SUPPORT RESTORE ALL EXISTING UTILITY COMPONENTS INCLUDING (BUT NOT LIMITED TO) CURB IN THE ROW MUST BE REPLACED IN KIND FOLLOWING COMPLETION OF WORKS.

DRAINAGE

ALL DRAINAGE PIPING MUST BE HIGH-DENSITY POLYETHYLENE (HDPE), OR EQUAL, WITH WATERTIGHT JOINTS WHERE INSTALLED WITHIN THE SEASONAL, HIGH GROUNDWATER TABLE, UNLESS NOTED OTHERWISE ON THE PLANS... DRAINAGE STRUCTURES MUST BE AS FOLLOWS UNLESS OTHERWISE NOTED ON PLANS:
1. CATCH BASINS ALONG CURBING: RIDOT STD. 4.4.0, TYPE F, 4' DIAMETER WITH APRON SLOPE
2. CATCH BASINS NOT ALONG CURBING: RIDOT STD. 4.4.0, 4' DIAMETER
3. CATCH BASINS MUST HAVE 3 FT SLUMPS WITHOUT SEEP HOLES
4. SINGLE FRAME CATCH BASIN GRATES: RIDOT STD 6.3.2
5. DRAINAGE MANHOLE COVERS: RIDOT STD 6.2.1
6. MANHOLES: RIDOT STD 4.2.0, 4.2.1 OR 4.2.2 AS REQUIRED. SEE NOTES BELOW FOR COVER TYPE

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 TOWN OF NORTH SMITHFIELD RULES AND REGULATIONS AND ANY APPLICABLE AUTHORITY HAVING JURISDICTION...

WATER

ALL WATER MAINS MUST BE CEMENT LINED DUCTILE IRON PIPE (CLDIP). ALL WATER MAIN IMPROVEMENTS MUST COMPLY WITH WOODSOCKET WATER WORKS REGULATIONS AND ANY APPLICABLE AUTHORITY HAVING JURISDICTION... CONTRACTOR MUST COORDINATE ALL IMPROVEMENTS WITH WOODSOCKET WATER WORKS TO ENSURE INSPECTION IS ON SITE.

ELECTRIC/TELECOM/GAS

PROPOSED GAS, ELECTRIC, CABLE AND DATA UTILITIES ARE SHOWN SCHEMATICALLY AND ARE PROPOSED TO BE UNDERGROUND... CONTRACTOR MUST COORDINATE FINAL DESIGN WITH APPROPRIATE UTILITY COMPANIES... CONTRACTOR MUST NOTIFY THE CEOR OF ANY DISCREPANCIES PRIOR TO CONSTRUCTION.

SITE LIGHTING

SITE LIGHTING (TEMPORARY AND PERMANENT) MUST BE DIRECTED AWAY FROM AND SHIELDED FROM ENVIRONMENTALLY SENSITIVE AREAS AND ADJUTING LANDS... CONTRACTOR MUST COORDINATE WITH THE APPROPRIATE UTILITIES, AND MUST BE LOCATED WITHIN THE STREET RIGHT-OF-WAY.

RI DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM
APPROVED WITH CONDITIONS AS SPECIFIED IN THE LETTER OF APPROVAL
DATED: DEC 3 0 2024 FILE # 24-0232
NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL
APPROVED PLANS MUST BE AT CONSTRUCTION SITE
Nancy J. Freeman

ABBREVIATIONS LEGEND

Table with 3 columns: Abbreviation, Description, and Notes. Includes items like ADA, AHJ, AP, ARCH, BC, BT, BIT, BIO, BS, CB, (C), (CA), CEOR, CLDIP, CO, CONC, (D), DCB, DI, DMH, DP, ELEV, EOP, ESC, EX, FES, FFE, GS, GW, HW, HC, HDPE, INV, IP, LARCH, LF, LOD, LP, MEP, etc.

SITE CALLOUTS LEGEND

NOT ALL ITEMS SHOWN WILL APPEAR ON PLANS

Table with 2 columns: Callout Symbol, Description. Includes MCC, ADAS, ADAR, ADV, 7.1.0, 7.2.0, 7.6.0, 7.6.0 MOD, 4DY, 12W, etc.

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 PRECAST CONCRETE, MONOLITHIC CONCRETE, BITUMINOUS BERM OR GRANITE, OR AS LABELED ON THE PLANS.
3. SIDEWALK MUST BE CONCRETE OR AS LABELED ON THE PLANS.
4. IT IS THE CONTRACTOR'S RESPONSIBILITY TO MEET ALL SIGNAGE AND PAVEMENT MARKING REQUIREMENTS OF THE MUTCD AND AUTHORITIES HAVING JURISDICTION...
5. SYMBOLS AND LEGENDS OF PROJECT FEATURES ARE GRAPHIC REPRESENTATIONS AND ARE NOT NECESSARILY SCALED TO THEIR ACTUAL DIMENSIONS OR LOCATIONS...
6. SEE ARCHITECTURAL DRAWINGS FOR EXACT BUILDING DIMENSIONS AND DETAILS...
7. CONTROL POINTS, PROPOSED BOUNDS, AND ANY EXISTING PROPERTY LINE MONUMENTATION DISTURBED DURING CONSTRUCTION MUST BE SET OR RESET BY A PROFESSIONAL LICENSED SURVEYOR.
8. CONTRACTOR MUST NOT RELY SOLELY ON ELECTRONIC VERSIONS OF PLANS, SPECIFICATIONS AND DATA FILES THAT ARE OBTAINED FROM THE CEOR...
9. ALL GUARDRAIL ON-SITE MUST BE STEEL BACKED TIMBER GUARDRAIL WITH STEEL POSTS...
10. INFRARED TREATMENT OF PAVEMENT IS REQUIRED AT ALL CURB CUTS...
11. ALL EXISTING PAVEMENT MARKING REMOVED AS INCIDENTAL DURING CONSTRUCTION MUST BE REPLACED IN-KIND FOLLOWING COMPLETION OF CONSTRUCTION...
12. 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.

EXISTING LEGEND

(AS SHOWN ON PROPOSED PLANS)
NOT ALL ITEMS SHOWN WILL APPEAR ON PLANS

Table with 3 columns: Symbol, Description, and Notes. Includes PROPERTY LINE, ASSESSORS LINE, BUILDING, BRUSHLINE, TREELINE, GUARDRAIL, FENCE, RETAINING WALL, STONE WALL, MINOR CONTOUR LINE, MAJOR CONTOUR LINE, WATER LINE, SEWER LINE, SEWER FORCE MAIN, GAS LINE, ELECTRIC LINE, OVERHEAD WIRES, DRAINAGE LINE, SOILS LINES, 25' BUFFER, 50' BUFFER, 75' BUFFER, 100' BUFFER, 150' BUFFER, 200' BUFFER, FEMO BOUNDARY, STREAM, WETLAND LINE & FLAG, STATE HIGHWAY LINE, STATE FREEWAY LINE, etc.

PROPOSED LEGEND

NOT ALL ITEMS SHOWN WILL APPEAR ON PLANS

Table with 3 columns: Symbol, Description, and Notes. Includes PROPERTY LINE, BUILDING SETBACKS, CHAIN-LINK FENCE, GUARDRAIL, RETAINING WALL, MINOR CONTOUR LINE, MAJOR CONTOUR LINE, SPOT ELEVATION, EDGE OF PAVEMENT, BITUMINOUS BERM, CONCRETE CURB, MONOLITHIC CONCRETE CURB AND SIDEWALK, BUILDING FOOTPRINT, BUILDING OVERHANG, ASPHALT PAVEMENT, HEAVY DUTY ASPHALT PAVEMENT, HEAVY DUTY CONCRETE, MILL AND OVERLAY, CONCRETE, ASPHALT SIDEWALK, SAWCUT LINE, ACCESSIBLE PARKING SPACE SYMBOLS, BUILDING INGRESS/EGRESS, DRAINAGE LINE, PERFORATED SUBDRAIN, 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, ETC, LIMIT OF DISTURBANCE/ LIMIT OF CLEARING, SLOPES STEEPER THAN 3:1 (2:1 OR 1:1 SLOPES), UNDERGROUND INFILTRATION OUTLINE, POND ACCESS, RIPRAP, SAND FILTER, CATCH BASIN, DOUBLE CATCH BASIN, DRAINAGE MANHOLE, FLARED END SECTION, HEADWALL, SEWER MANHOLE, SINGLE LIGHT, DOUBLE LIGHT, OVERHANGING LIGHT

NOTE: THIS PLAN SET MUST BE REPRODUCED IN COLOR

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... CONTRACTOR MUST NOTIFY THE CEOR OF ANY DISCREPANCIES PRIOR TO CONSTRUCTION.

PER THE CODE OF FEDERAL REGULATIONS - TITLE 29, PART 1926 IT IS THE SITE CONTRACTOR'S RESPONSIBILITY TO OBTAIN ACCURATE UNDERGROUND UTILITY LINE LOCATIONS FROM THE UTILITY COMPANIES, UTILITY OWNERS AND, OR VIA UNDERGROUND UTILITY LOCATION EQUIPMENT AS NEEDED TO ESTABLISH ACCURATE LOCATIONS PRIOR TO ANY EXCAVATION... DIPRETE ENGINEERING IS NOT A PROFESSIONAL UTILITY LOCATION COMPANY...

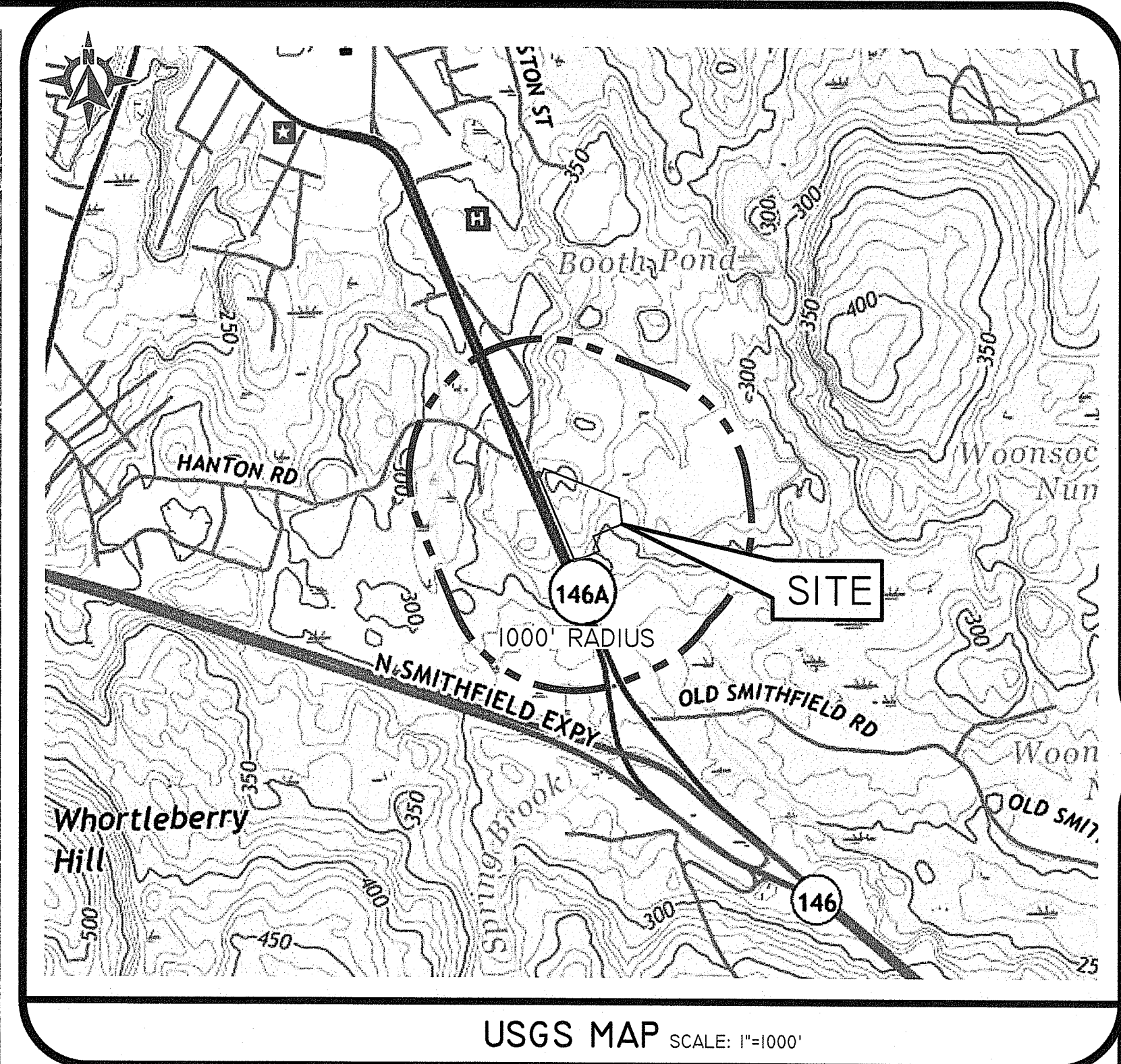
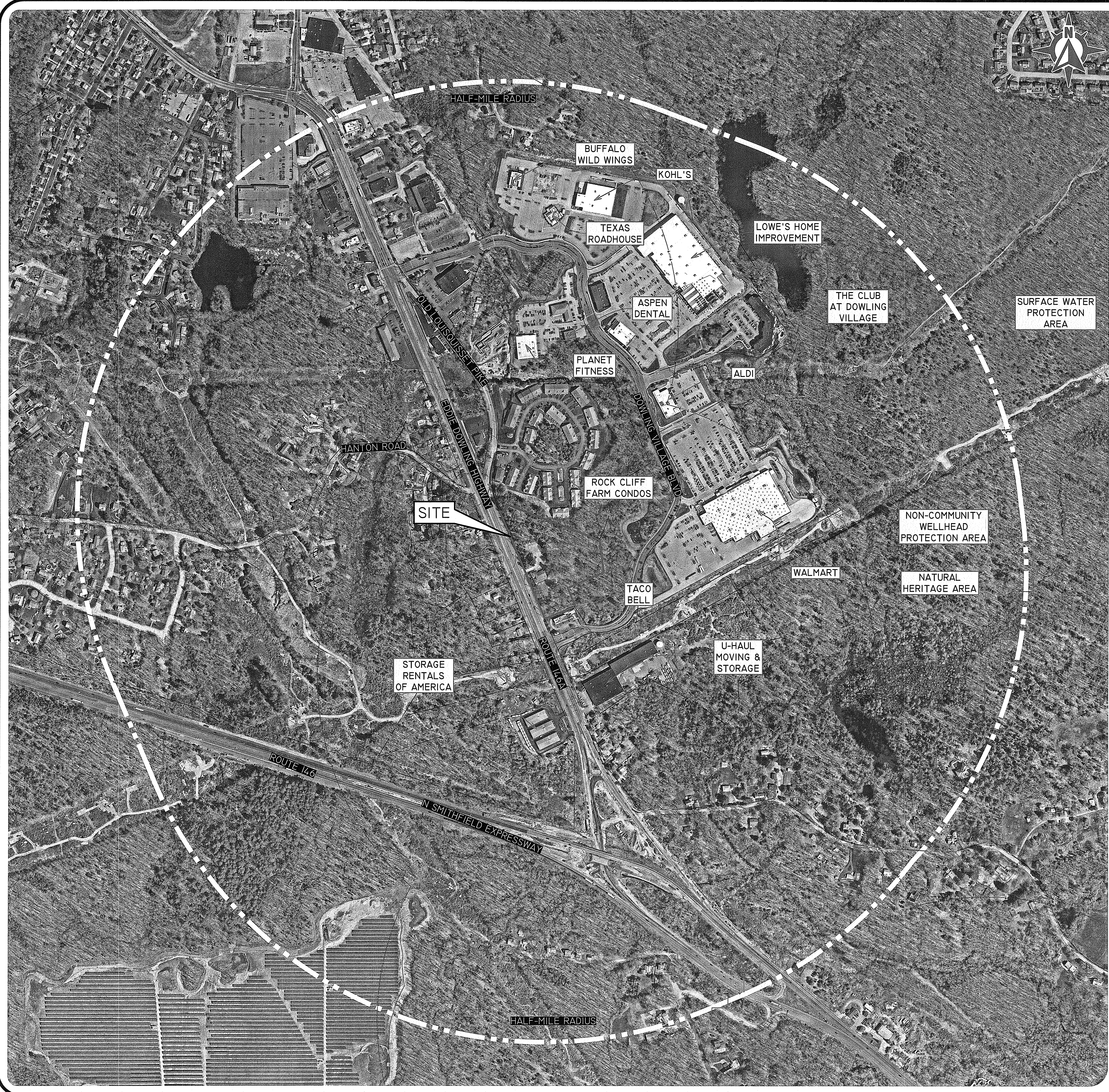
PERMIT NOTE:
THE PURPOSE OF THIS PLAN SET IS TO OBTAIN A PERMIT FROM THE REGULATORY AGENCY IT WAS SUBMITTED TO... DIPRETE ENGINEERING ASSUMES NO RESPONSIBILITY FOR DAMAGES INCURRED.

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

DANA R. NISSET
REGISTERED PROFESSIONAL ENGINEER CIVIL
No. 11876

GENERAL NOTES & LEGEND
THE CROSSINGS AT DOWLING VILLAGE
ASSESSOR'S PLAT IS LOT 70
NORTH SMITHFIELD, RHODE ISLAND
CANTON EAST HOLDINGS, LLC
C/O ANGELLO GRILLI
400 SOUTH COUNTY TRAIL, EXETER, RI 02822
DESIGN BY: J.M.F.
DRAWN BY: J.M.F.
SHEET 2 OF 14

Z:\CASHAN\PROJECTS\2024-045 EDIE DOWLING HIGHWAY 322\AUTOCAD DRAWINGS\2024-045-CASHAN-DWG PLOTTER: 11/22/2024



USGS MAP SCALE: 1"=1000'

PHOTO OBTAINED FROM NEARMAP. DATE OF PHOTOGRAPHY 04/09/2024.
SCALE: 1"=300'
0 150' 300' 600'

RI DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM
APPROVED WITH CONDITIONS AS
SPECIFIED IN THE LETTER OF APPROVAL
DATED: DEC 30 2024 FILE #: 24-0232
NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL
APPROVED PLANS MUST BE AT CONSTRUCTION SITE

Nancy L. Freeman

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Two Stafford Court Cranston, RI 02920
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Boston • Providence • Newport

DANA R. NISBET
No. 11876
REGISTERED PROFESSIONAL ENGINEER CIVIL

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 WATER RESOURCES. THE CONTRACTOR IS RESPONSIBLE FOR ALL OF THE MEASUREMENTS, METHODS, SAFETY PRECAUTIONS AND REQUIREMENTS, AND DESIGN. EXISTING UTILITIES SHOWN ON THIS PLAN ARE APPROXIMATE AND DAMAGES INCURRED DUE TO COSTS OF EXISTING UTILITIES.

NO.	DATE	DESCRIPTION	BY:
0	02-21-2024	RIEM WETLANDS SUBMISSION	J.M.F.
1	02-21-2024	RIEM WETLANDS SUBMISSION	J.M.F.

DESIGN BY: J.M.F.
DRAWN BY: J.M.F.

AERIAL HALF-MILE RADIUS & USGS MAP
THE CROSSINGS AT DOWLING VILLAGE
ASSESSOR'S PLAT 13 LOT 70
NORTH SMITHFIELD, RHODE ISLAND
PREPARED FOR:
CANTON EAST HOLDINGS, LLC
C/O ANGELO GRILLI
400 SOUTH COUNTY TRAIL, EXETER, RI 02822
SHEET **3** OF 14

RIEM No. 2024-003 COPYRIGHT 2024 BY DIPRETE ENGINEERING ASSOCIATES, INC.

GENERAL NOTES

- THE PARCEL IS FOUND ON ASSESSOR'S PLAT 13, LOT 70 IN THE TOWN OF NORTH SMITHFIELD, PROVIDENCE COUNTY, RHODE ISLAND.
- THE OWNER PER DEED BOOK 964, PAGE 78 IS CANTON EAST HOLDINGS, LLC.
- THIS SITE IS LOCATED IN FEMA FLOOD ZONE X. REFERENCE FEMA FLOOD INSURANCE RATE MAP 44007C01676, MAP REVISED MARCH 2, 2009. THIS DESIGNATION MAY CHANGE BASED UPON REVIEW BY A FLOOD ZONE SPECIALIST OR BY THE RESULTS OF A COMPREHENSIVE FLOOD STUDY.
- THE PARCEL IS ZONED (B) BUSINESS-HIGHWAY BASED ON THE TOWN OF NORTH SMITHFIELD ONLINE GIS. ANY OVERLAY DISTRICTS, SPECIAL PERMITS OR VARIANCES SPECIFIC TO THIS SITE ARE NOT TAKEN INTO CONSIDERATION. PLEASE CONTACT THE ZONING DEPARTMENT FOR ANY ADDITIONAL INFORMATION OR FOR A CERTIFICATE OF ZONING.
- THERE WERE NO CEMETERIES, GRAVE SITES AND OR BURIAL GROUNDS OBSERVED WITHIN THE LIMITS OF THE SURVEY.
- FIELD SURVEY PERFORMED BY DIPRETE ENGINEERING ON AUGUST 11, 2023. THIS PLAN REFLECTS ON THE GROUND CONDITIONS AS OF THAT DATE.
- ELEVATIONS SHOWN HEREON, IN U.S. SURVEY FEET, ARE REFERENCED TO THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD 88), AS DETERMINED BY DIPRETE ENGINEERING USING REAL TIME KINEMATIC G.P.S. OBSERVATIONS.
- CONTOUR DATA SHOWN ON THIS PLAN CONFORMS TO A T-4 TOPOGRAPHICAL SURVEY STANDARD AS ADOPTED BY THE RHODE ISLAND BOARD OF REGISTRATION FOR PROFESSIONAL LAND SURVEYORS; SAID DATA IS BASED ON ELEVATION INFORMATION THAT WAS COLLECTED WITH AIRBORNE LIDAR TECHNOLOGY FOR THE ENTIRE AREA OF RHODE ISLAND IN MARCH, 2022 AS PART OF THE NORTHEAST LIDAR PROJECT. THIS DATA'S POSITIONAL ACCURACY AND RELIABILITY HAS NOT BEEN VERIFIED BY DIPRETE ENGINEERING AND IS SUBJECT TO CHANGES AN AUTHORITY FIELD SURVEY MAY DISCLOSE.
- THIS SURVEY WAS PREPARED WITHOUT THE BENEFIT OF A TITLE REPORT. DIPRETE ENGINEERING IS NOT RESPONSIBLE FOR ANY UNKNOWN OR UNRECORDED EASEMENTS, DEEDS OR CLAIMS THAT A TITLE REPORT WOULD DISCLOSE.

PLAN REFERENCES

- ADMINISTRATIVE SUBDIVISION, EDDIE DOWLING HIGHWAY, ASSESSOR'S PLAT 13, LOTS 18 & 70, NORTH SMITHFIELD, RHODE ISLAND, PREPARED BY DIPRETE ENGINEERING ASSOCIATES, INC., SCALE 1"=80', DATED SEPTEMBER 17, 2015

UTILITY NOTES

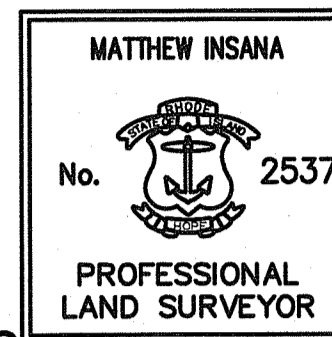
- ALL EXISTING UTILITIES DEPICTED ARE SHOWN ACCORDANCE WITH UTILITY QUALITY LEVEL C AS DEFINED IN CIVASSE STANDARD 38-02 (STANDARD GUIDELINES FOR THE COLLECTION AND DEPICTION OF EXISTING SUBSURFACE UTILITY DATA), LATEST REVISION.
- ALL EXISTING UNDERGROUND UTILITIES SHOWN WERE PROVIDED BY OTHERS AND ARE APPROXIMATE ONLY. LOCATIONS MUST BE DETERMINED IN THE FIELD BEFORE EXCAVATION, BLASTING, UTILITY INSTALLATION, BACKFILLING, GRADING, PAVEMENT RESTORATION, AND ALL OTHER SITE WORK. ALL UTILITY COMPANIES, PUBLIC AND PRIVATE, MUST BE CONTACTED INCLUDING THOSE IN CONTROL OF UTILITIES NOT SHOWN ON THESE DOCUMENTS. CONTACT DIG SAFE A MINIMUM OF 72 WORKING HOURS PRIOR TO ANY CONSTRUCTION AT 811. DIG SAFE IS RESPONSIBLE FOR CONTACTING MEMBER UTILITY COMPANIES. DIG SAFE MEMBER UTILITY COMPANIES ARE RESPONSIBLE TO MARK ONLY THE FACILITIES THAT THEY OWN OR MAINTAIN. NON DIG SAFE MEMBER COMPANIES ARE NOT NOTIFIED BY DIG SAFE. IT IS THE CONTRACTOR'S RESPONSIBILITY TO INVESTIGATE AND NOTIFY IF ANY PRIVATELY OWNED OR NON DIG SAFE MEMBER UTILITIES ARE IN THE AREA.
- PER THE CODE OF FEDERAL REGULATIONS - TITLE 29, PART 1926 IT IS THE SITE CONTRACTOR'S RESPONSIBILITY TO OBTAIN ACCURATE UNDERGROUND UTILITY LINE LOCATIONS FROM THE UTILITY COMPANIES, UTILITY OWNERS AND, OR VIA UNDERGROUND UTILITY LOCATION EQUIPMENT AS NEEDED TO ESTABLISH ACCURATE LOCATIONS PRIOR TO ANY EXCAVATION. THE USE OF PROFESSIONAL UTILITY LOCATING COMPANIES PRIOR TO ANY EXCAVATION IS RECOMMENDED.
- 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 ASSURES NO RESPONSIBILITY FOR DAMAGES INCURRED.
- UTILITY PLAN REFERENCES
 - WATER INFORMATION OBTAINED FROM "PLAN AND PROFILE-5 (SHEET 6), ROCKCLIFF FARM" BY JOHN P. CANTO CORP., DATED APRIL 2004, SCALE 1" = 40'
 - SEWER INFORMATION OBTAINED FROM TOWN OF NORTH SMITHFIELD GIS MAPS.
 - GAS INFORMATION OBTAINED FROM NATIONAL GRID.
 - ELECTRIC INFORMATION OBTAINED FROM NATIONAL GRID.
 - DRAINAGE INFORMATION OBTAINED ON THE GROUND BY DIPRETE ENGINEERING. (SEE GENERAL NOTES FOR DATE OF FIELD SURVEY)

SURVEYOR'S CERTIFICATE

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

- LIMITED CONTENT BOUNDARY SURVEY (PERIMETER) CLASS 1
- TOPOGRAPHIC SURVEY CLASS T-2
- TOPOGRAPHIC SURVEY CLASS T-4

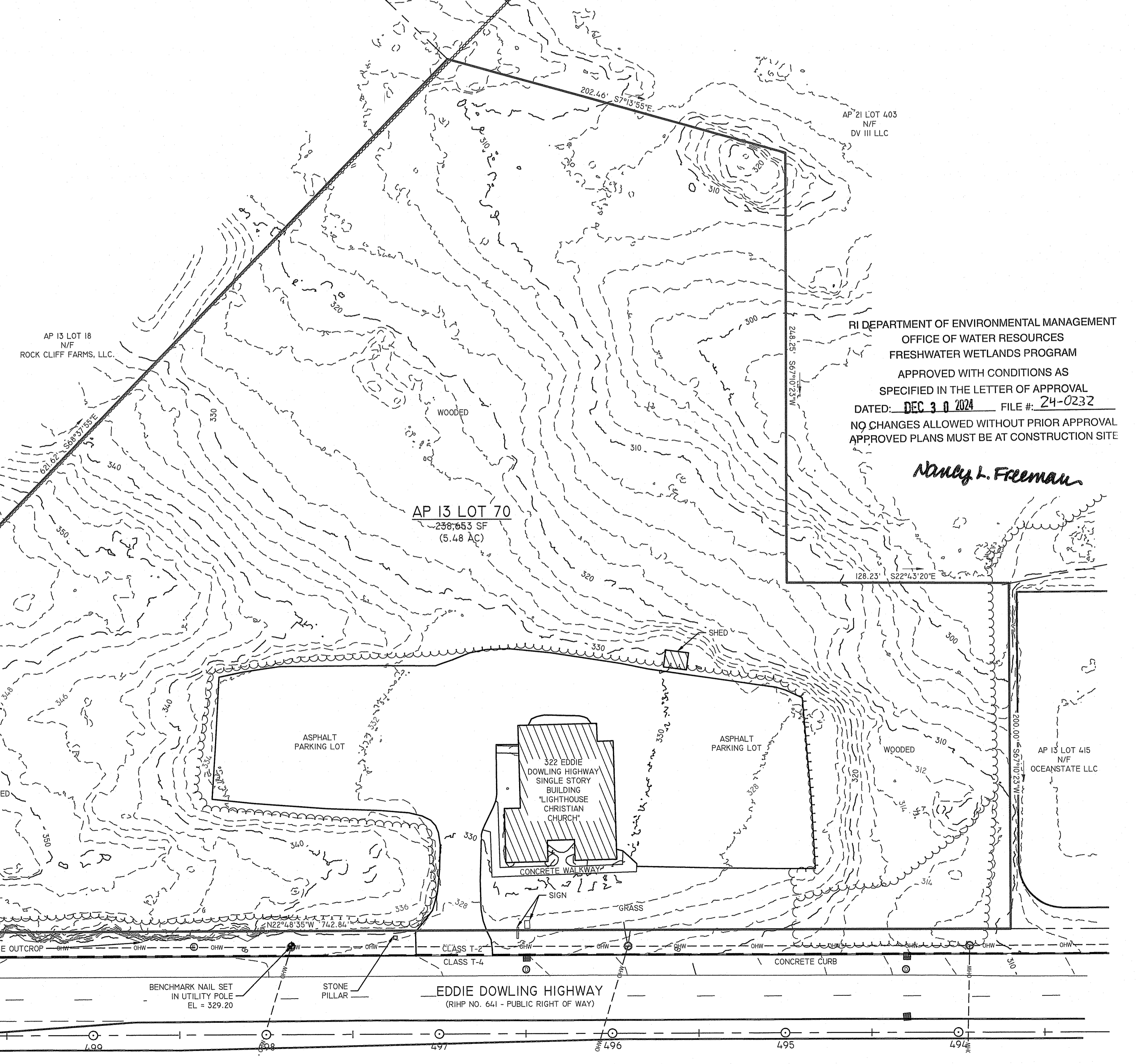
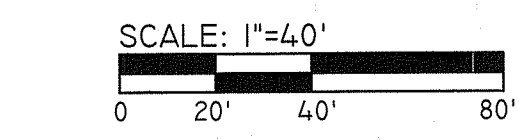
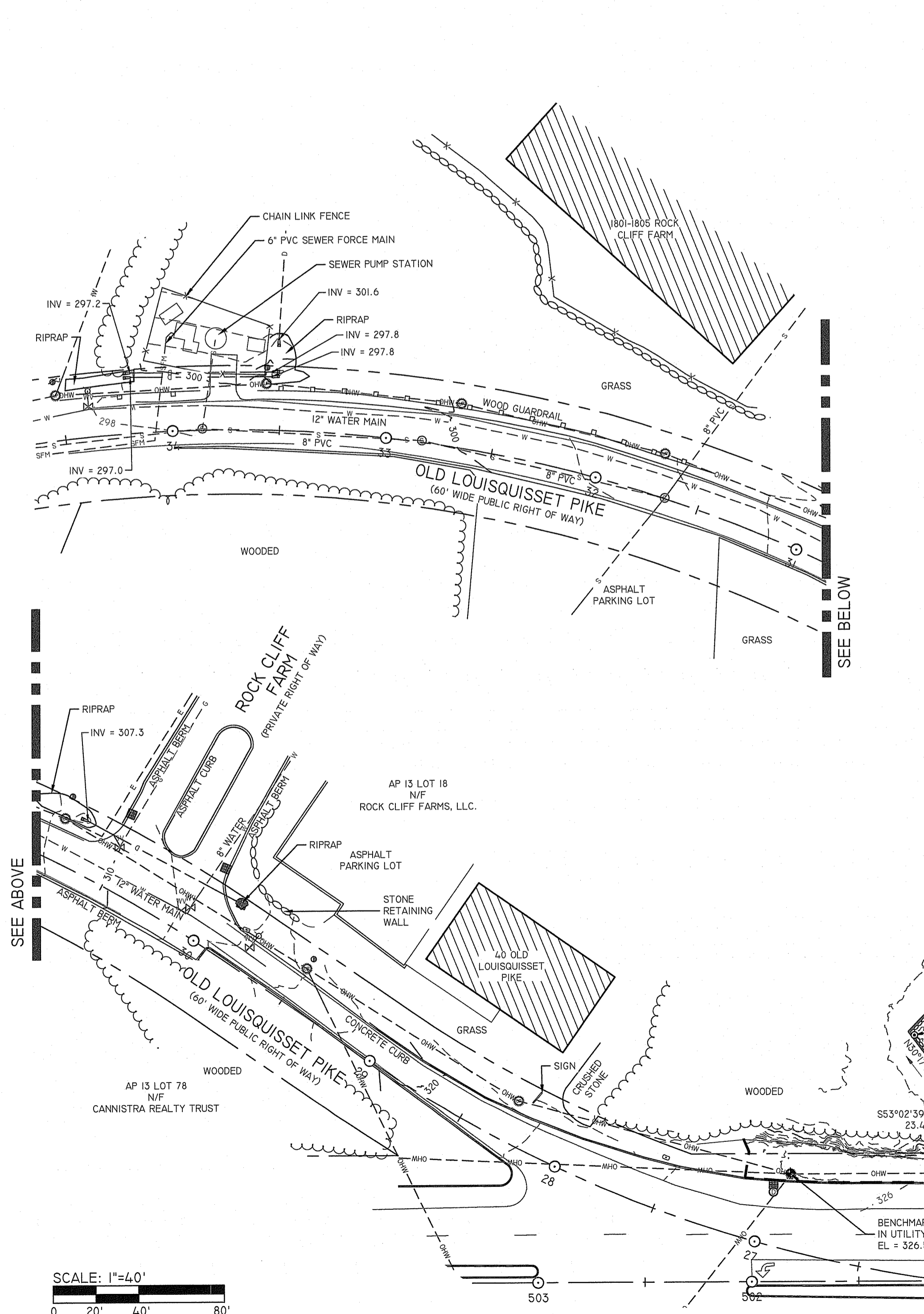
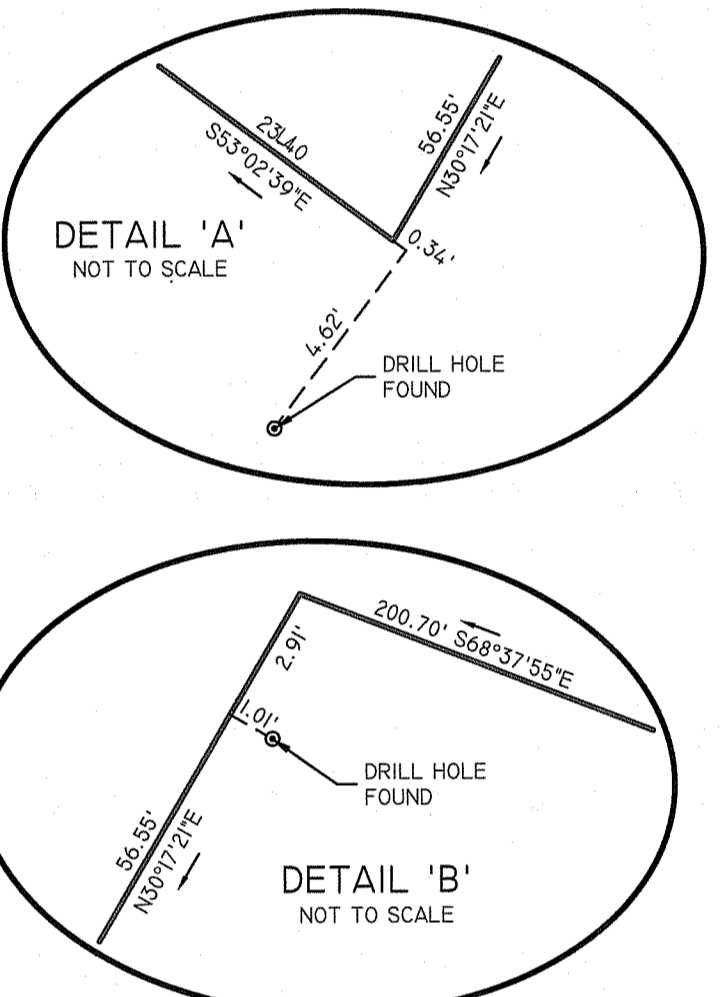
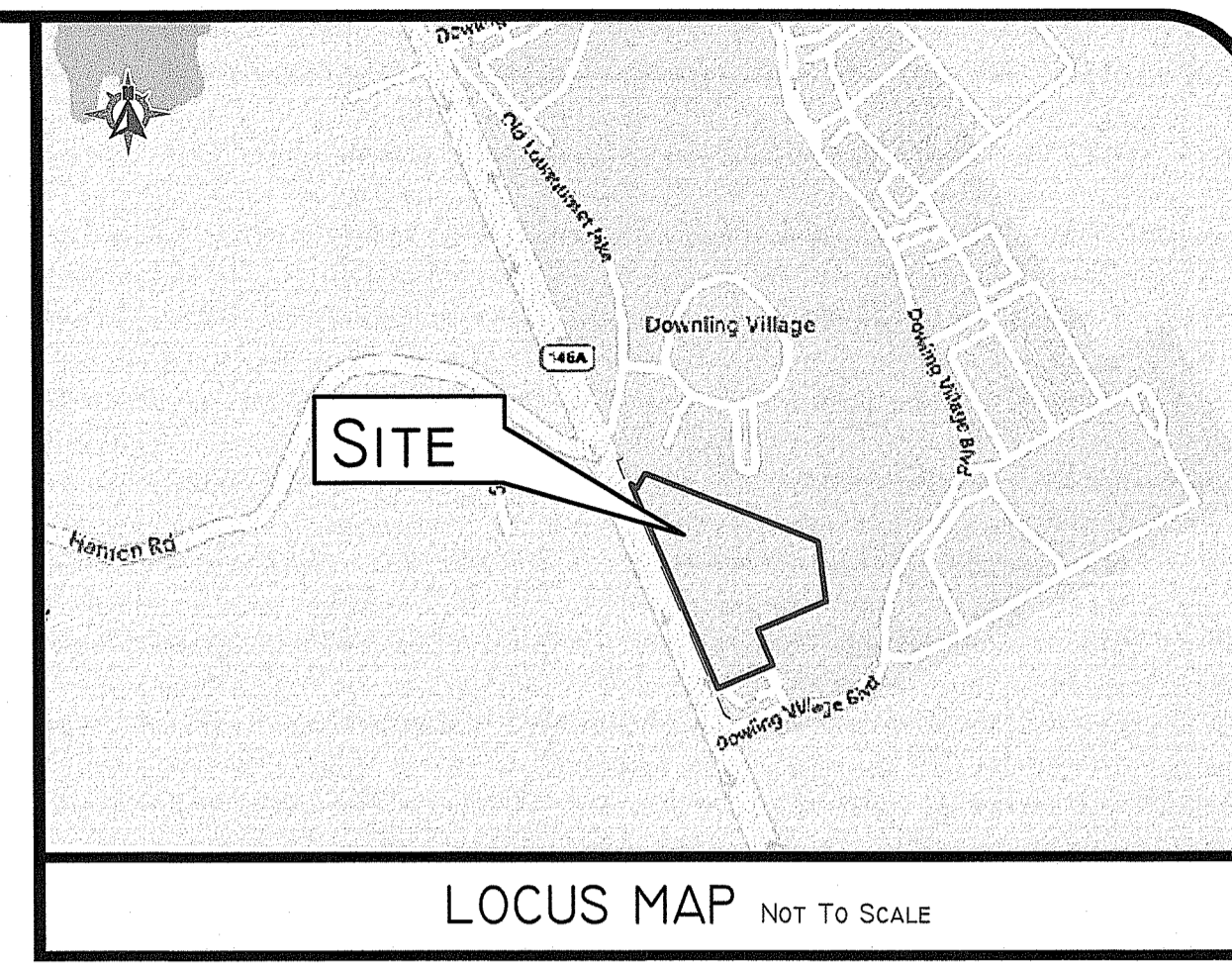
THE PURPOSE FOR THE CONDUCT OF THE SURVEY AND FOR THE PREPARATION OF THE PLAN IS AS FOLLOWS: PERIMETER RETRACEMENT WITH TOPOGRAPHY FOR SITE ENGINEERING AND PERMITTING.



Matthew Insana 9/16/24
MATTHEW INSANA, RIPLS #2537, COA #LS.000A160

LEGEND

---	W	WATER LINE	123/1234	DEED BOOK/PAGE	○	BOLLARD
---	S	SEWER LINE	AP	ASSESSOR'S PLAT	⊗	SOIL EVALUATION
---	SFH	SEWER FORCE MAIN	HC	HANDICAPPED	■	CATCH BASIN
---	G	GAS LINE	N/F	NOW OR FORMERLY	□	DOUBLE CATCH BASIN
---	E	ELECTRIC LINE	LC	LANDSCAPING	⊗	WATER VALVE
---	OHW	OVERHEAD WIRES	RC	RECORD	⊗	GAS VALVE
---	D	DRAINAGE LINE	(CA)	CHORD ANGLE	▲	B-I WETLAND FLAG
---	M	MINOR CONTOUR LINE	▲	NAIL/SPIKE	⊗	DRAINAGE MANHOLE
---	M	MAJOR CONTOUR LINE	○	DRILL HOLE	⊗	FLARED END SECTION
---	P	PROPERTY LINE	○	IRON ROD/PIPE	○	GUY POLE
---	A	ASSESSORS LINE	⊗	BOUND	⊗	ELECTRIC MANHOLE
---	T	TREELINE	⊗	SIGN POST	⊗	UTILITY/POWER POLE
---	G	GUARDRAIL	⊗	SEWER MANHOLE	⊗	LIGHTPOST
---	R	RETAINING WALL	⊗	SEWER CLEANOUT	⊗	WELL
---	○	STONE WALL	⊗	HYDRANT	⊗	MONITORING WELL
			⊗	IRRIGATION VALVE	⊗	BENCH MARK
			⊗	UNKNOWN MANHOLE	⊗	TREE



RI DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
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Nancy L. Freeman

Diprete Engineering
Two Stafford Court, Cranston, RI 02910
Tel: 401-943-1000 Fax: 401-464-6806 www.diprete-eng.com
Boston Providence Newport

NO.	DATE	DESCRIPTION	BY:
0		BOUNDARY & TOPOGRAPHIC SURVEY	A.L.F.

BOUNDARY & TOPOGRAPHIC SURVEY
EDDIE DOWLING HIGHWAY
ASSESSOR'S PLAT 13, LOT 70
NORTH SMITHFIELD, RHODE ISLAND
PREPARED FOR:
CANTON EAST HOLDINGS, LLC
500 SOUTH COUNTY ROAD SUITE A207,
EXETER, RHODE ISLAND 02826
JOB NO. 2406-003 COPYRIGHT 2024 BY DIPRETE ENGINEERING ASSOCIATES, INC.

SHEET **4** OF 13

GENERAL NOTES:

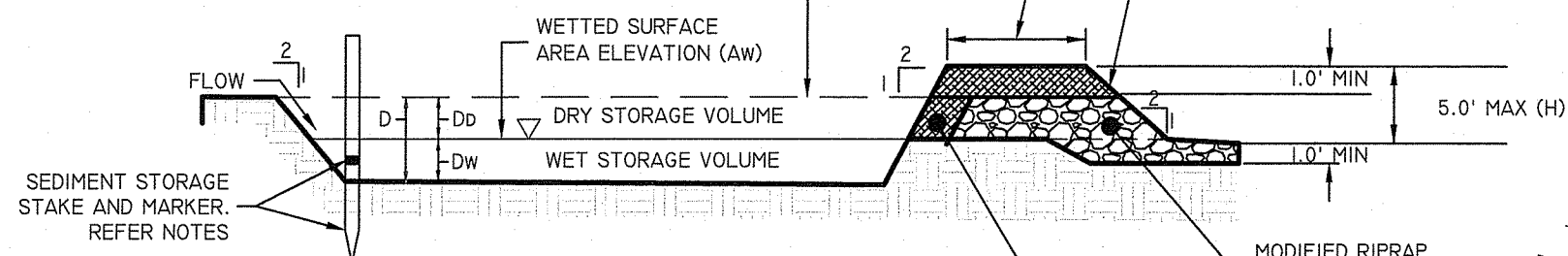
1. THE TEMPORARY SEDIMENT TRAP SHALL MEET ALL REQUIREMENTS FOR TEMPORARY SEDIMENT TRAPS OUTLINED IN THE RHODE ISLAND SOIL EROSION AND SEDIMENT CONTROL HANDBOOK (LATEST REVISION) SECTION SIX: SEDIMENT CONTROL MEASURES.
2. THE TEMPORARY SEDIMENT TRAP MUST PROVIDE A STORAGE VOLUME FOR ONE INCH OF RUNOFF 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.

SEDIMENT TRAP DIMENSIONS*	TRAP A	TRAP B	TRAP C
TRIBUTARY DRAINAGE AREA	1.45 AC	0.71 AC	0.34 AC
WET STORAGE DEPTH (Dw)	2.0 FT	2.0 FT	2.0 FT
DRY STORAGE DEPTH (Dd)	1.0 FT	1.0 FT	1.0 FT
TOTAL DEPTH (D)	3.0 FT	3.0 FT	3.0 FT
BOTTOM OF TRAP AREA (Ab)	1,355 SQ.FT	536 SQ.FT	368 SQ.FT
WETTED SURFACE AREA (Aw)	2,070 SQ.FT	946 SQ.FT	728 SQ.FT
SURFACE AREA AT OUTLET (Ad)	2,476 SQ.FT	1,189 SQ.FT	946 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)	1.5	2.0	2.5	3.0	3.5	4.0	4.5	5.0
W (FT)	2.0	2.0	3.0	3.0	2.5	3.0	4.0	4.5

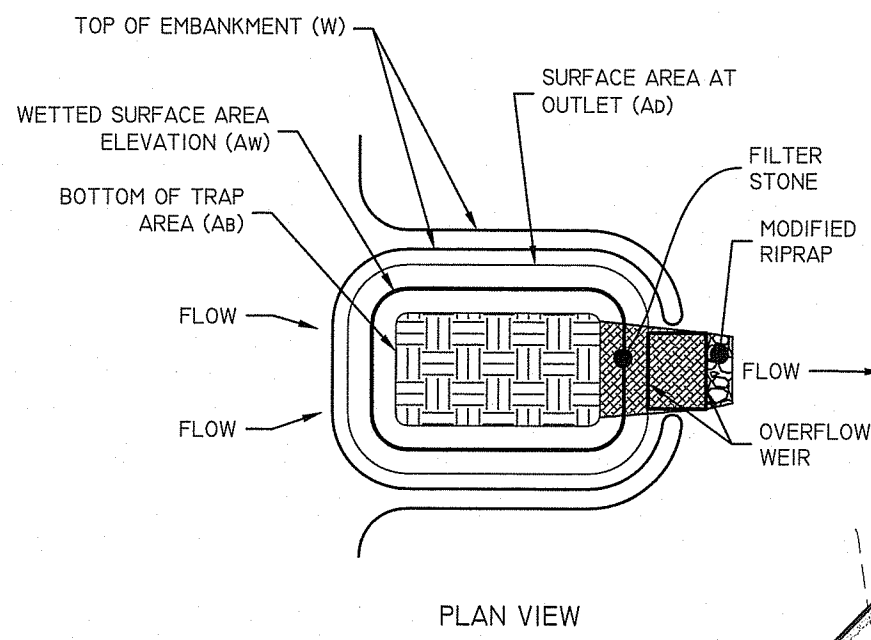


INSPECTION, MAINTENANCE, AND REMOVAL REQUIREMENTS:

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:

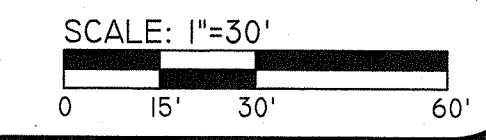
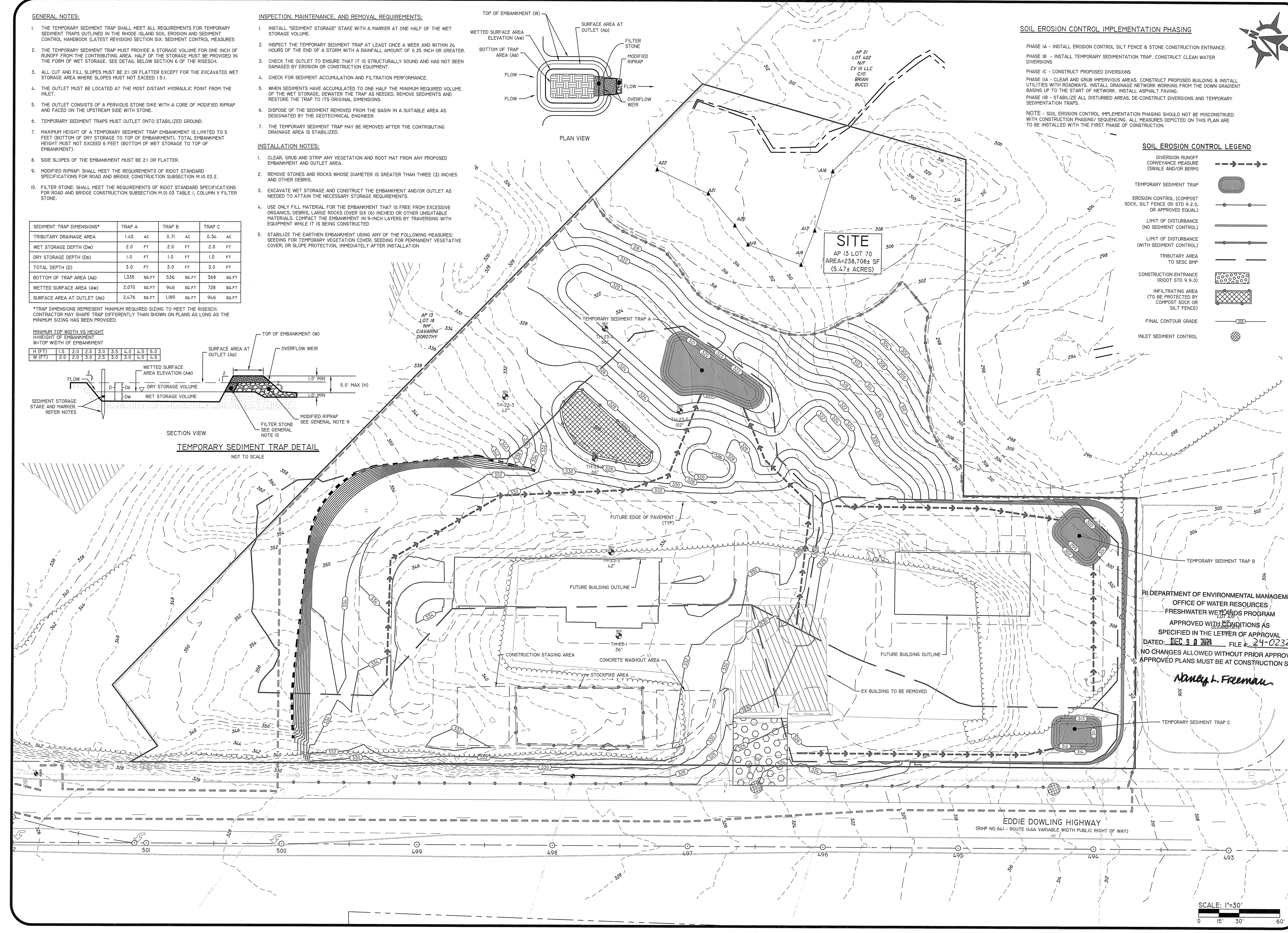
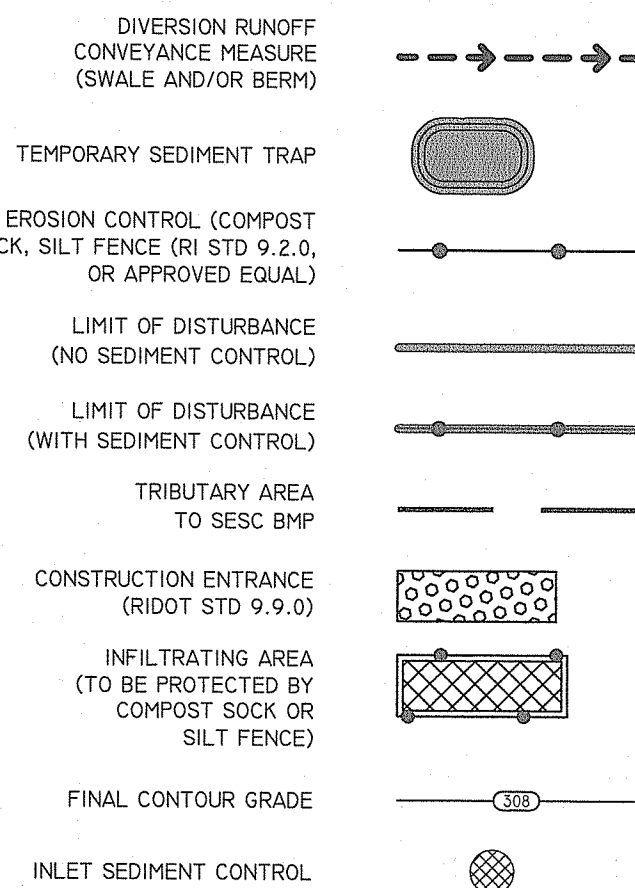
1. CLEAR, GRUB AND STRIP ANY VEGETATION AND ROOT MAT FROM ANY PROPOSED EMBANKMENT AND OUTLET AREA.
2. REMOVE STONES AND ROCKS WHOSE DIAMETER IS GREATER THAN THREE (3) INCHES AND OTHER DEBRIS.
3. EXCAVATE WET STORAGE AND CONSTRUCT THE EMBANKMENT AND/OR OUTLET AS NEEDED TO ATTAIN THE NECESSARY STORAGE 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.



SOIL EROSION CONTROL IMPLEMENTATION PHASING

- PHASE IA - INSTALL EROSION CONTROL SILT FENCE & STONE CONSTRUCTION ENTRANCE.
 PHASE IB - INSTALL TEMPORARY SEDIMENTATION TRAP. CONSTRUCT CLEAN WATER DIVERSIONS.
 PHASE IC - CONSTRUCT PROPOSED DIVERSIONS.
 PHASE IIA - CLEAR AND GRUB IMPERVIOUS AREAS. CONSTRUCT PROPOSED BUILDING & INSTALL UTILITIES WITH ROADWAYS. INSTALL DRAINAGE NETWORK WORKING FROM THE DOWN GRADIENT BASINS UP TO THE START OF NETWORK. INSTALL ASPHALT PAVING.
 PHASE IIB - STABILIZE ALL DISTURBED AREAS, DE-CONSTRUCT DIVERSIONS AND TEMPORARY SEDIMENTATION TRAPS.
 NOTE - SOIL EROSION CONTROL IMPLEMENTATION PHASING SHOULD NOT BE MISCONSTRUCTED WITH CONSTRUCTION PHASING/ SEQUENCING. ALL MEASURES DEPICTED ON THIS PLAN ARE TO BE INSTALLED WITH THE FIRST PHASE OF CONSTRUCTION.

SOIL EROSION CONTROL LEGEND



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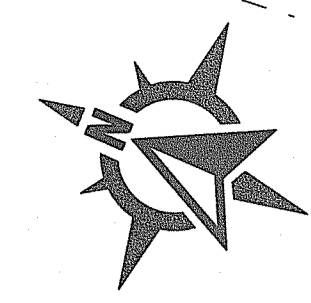
DANA R. NISSET
 No. 11876
 REGISTERED PROFESSIONAL ENGINEER CIVIL

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 THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM ALL AFFECTED AGENCIES AND AGENCIES.
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RI DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
 OFFICE OF WATER RESOURCES
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 APPROVED WITH CONDITIONS AS SPECIFIED IN THE LETTER OF APPROVAL
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 APPROVED PLANS MUST BE AT CONSTRUCTION SITE
 Nancy L. Freeman

SOIL EROSION & SEDIMENT CONTROL PLAN
 THE CROSSINGS AT DOWLING VILLAGE
 ASSESSOR'S PLAT IS LOT 70
 NORTH SMITHFIELD, RHODE ISLAND
 PREPARED FOR:
 CANTON EAST HOLDINGS, LLC
 C/O ANGELO GRILLI
 400 SOUTH COUNTY TRAIL, EXETER, RI 02822
 SHEET 5 OF 14

Z:\DEVELOPMENT\PROJECTS\2024\03\EDDIE DOWLING HIGHWAY 322\AUTOCAD DRAWINGS\2024\03\PLANNING PLOTS\1122272024



DEVELOPMENT DATA:

TOTAL SITE AREA: 5.47± ACRES
 TOTAL NUMBER OF BUILDINGS: 2
 RIGHT OF WAY WIDTH: 30'
 PAVEMENT WIDTH: 24'

DIMENSIONAL REGULATIONS:

CURRENT ZONING: BH-BUSINESS HIGHWAY

	LOT A	LOT B
MINIMUM LOT AREA:	14,7,992 SF	90,661 SF
MINIMUM FRONTAGE AND LOT WIDTH:	498'±	245'±
MINIMUM FRONT AND CORNER SIDE YARD:	25'	111.5'
MINIMUM SIDE YARD:	15'	65.8'
MINIMUM REAR YARD:	30'	42.0'
MAXIMUM STRUCTURE HEIGHT:	35'	<35'
MAXIMUM LOT COVERAGE:	35%	5.1%

PARKING REGULATIONS:

PARKING USE: RETAIL AND SERVICE BUSINESS LESS THAN 20,000 SF
 PARKING REQUIREMENT: 2 SPACES PER 1,000 SF (GFA)

CARWASH:

BUILDING SQUARE FOOTAGE (GFA): 6,400 SF
 REQUIRED PARKING CALCULATIONS: 6,400 X 2 / 1,000 = 12.8 = 13 SPACES
 ADA PARKING REQUIRED: 1 SPACES

ADA PARKING PROVIDED: 2 SPACES
 TOTAL PARKING SPACES PROVIDED: 6 SPACES
 TOTAL VACUUM SPACES PROVIDED: 18 SPACES

GAS STATION WITH CONVENIENCE STORE:

BUILDING SQUARE FOOTAGE (GFA): 4,600 SF
 REQUIRED PARKING CALCULATIONS: 4,600 X 2 / 1,000 = 9.2 = 10 SPACES
 ADA PARKING REQUIRED: 1 SPACES

ADA PARKING PROVIDED: 2 SPACES
 TOTAL PARKING SPACES PROVIDED: 11 SPACES

DiPrete Engineering

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DANA R. NISBET

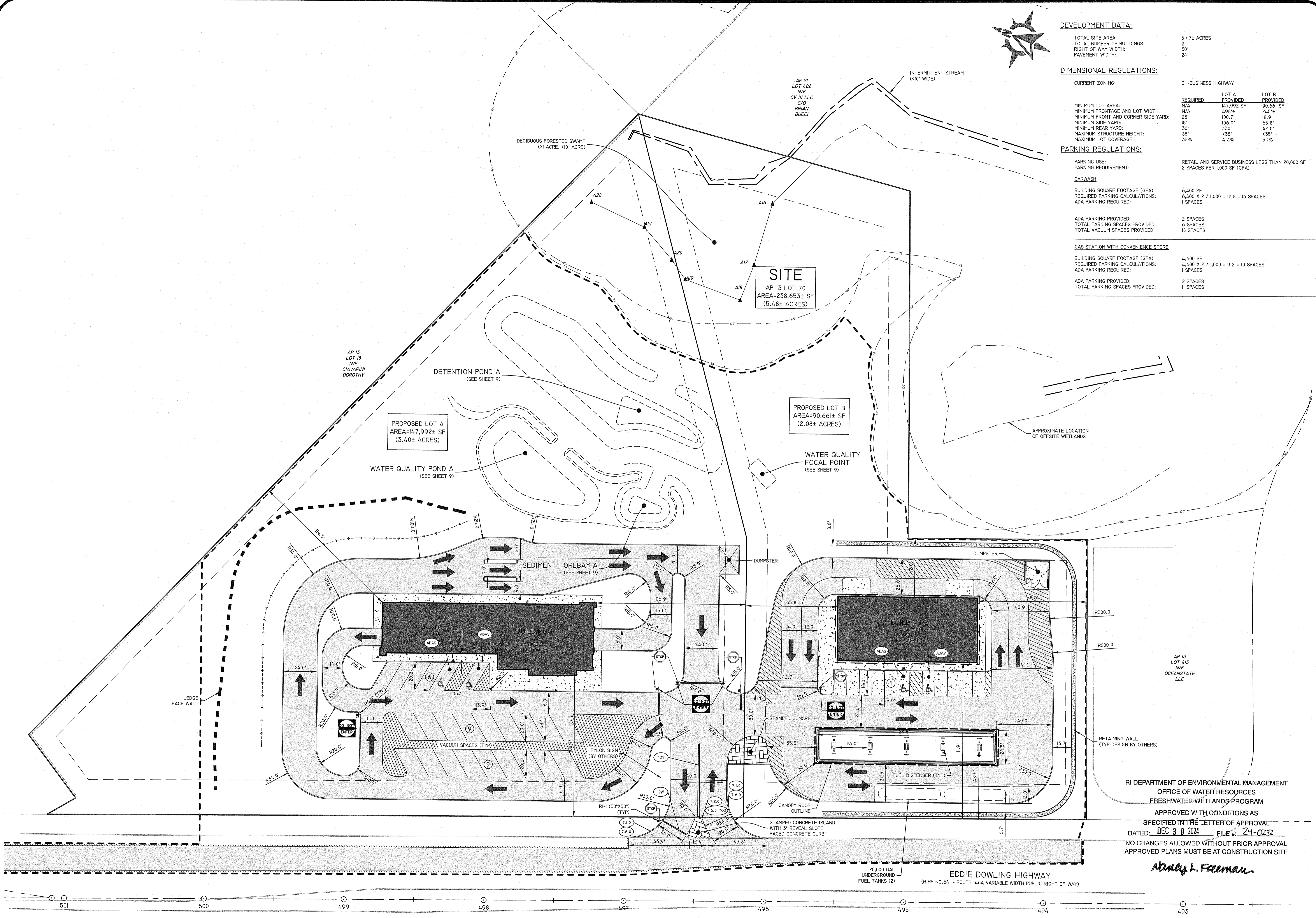
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 REGISTERED PROFESSIONAL ENGINEER CIVIL

THIS PLAN SET MUST NOT BE USED FOR CONSTRUCTION PURPOSES UNLESS STAMPED AND SIGNED FOR CONSTRUCTION AND STAMPED BY THE 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 CONTRACTOR IS RESPONSIBLE FOR ALL OF THE NEARBY UTILITIES. THE CONTRACTOR SHALL VERIFY THE LOCATION AND DEPTH OF ALL UTILITIES SHOWN ON THIS PLAN AND ASSUME RESPONSIBILITY FOR DAMAGES INCURRED DUE TO LOCATIONS OF EXISTING UTILITIES.

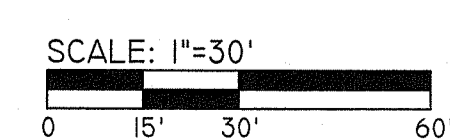
N.P.E.	DATE	DESCRIPTION	DESIGN BY
J.M.F.	11/21/24	DESIGN	J.M.F.



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

APPROVED WITH CONDITIONS AS SPECIFIED IN THE LETTER OF APPROVAL
 DATED: DEC 30 2024 FILE #: 24-0232
 NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL
 APPROVED PLANS MUST BE AT CONSTRUCTION SITE

Nancy L. Freeman



SITE LAYOUT PLAN

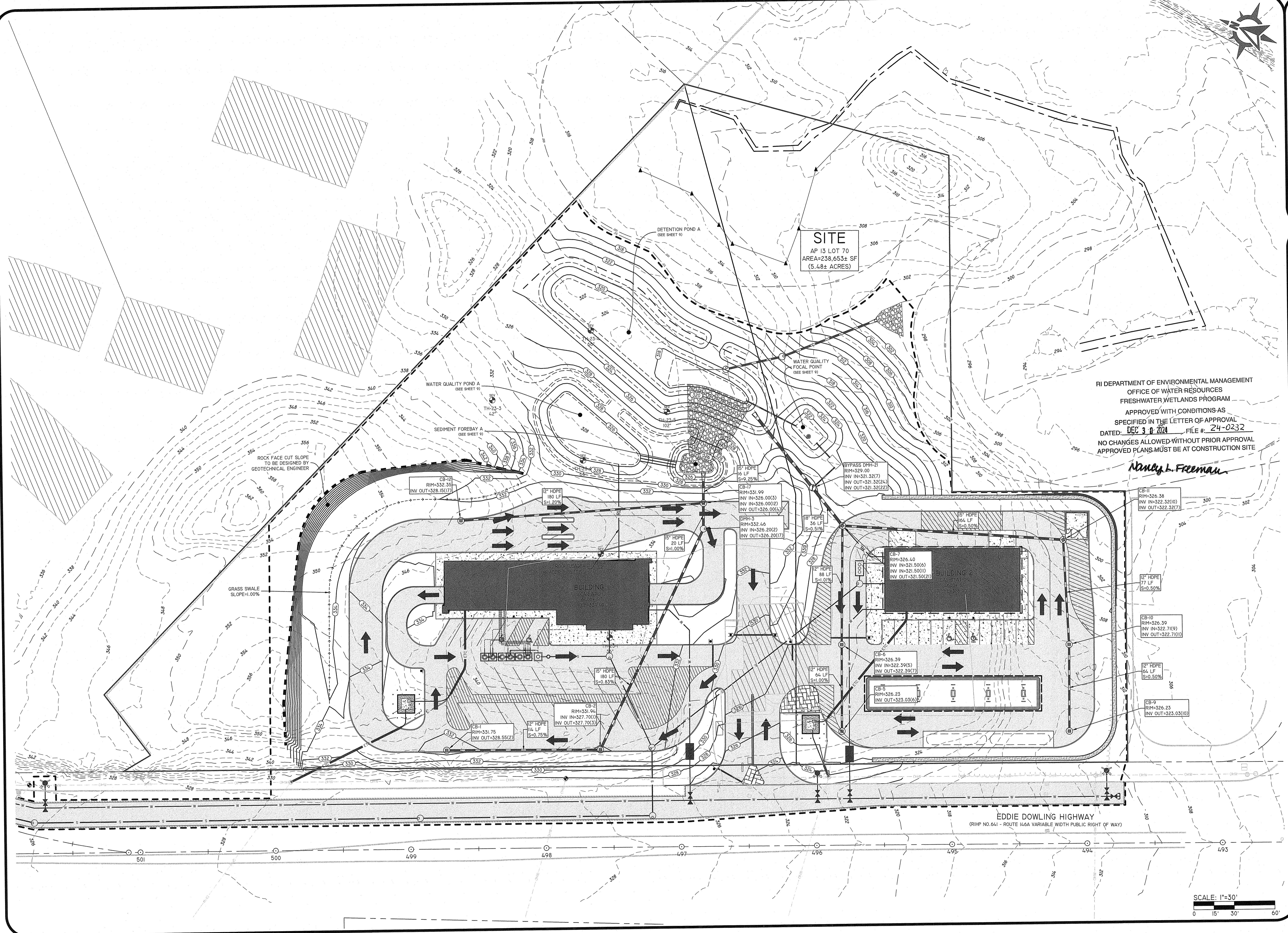
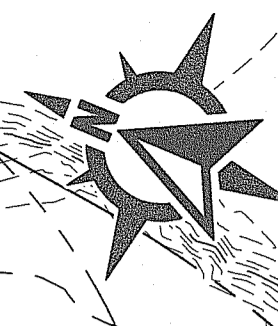
THE CROSSINGS AT DOWLING VILLAGE
 ASSESSOR'S PLAT 15 LOT 70
 NORTH SMITHFIELD, RHODE ISLAND

PREPARED FOR:
CANTON EAST HOLDINGS, LLC
 C/O ANGELO GRILLI TRAIL, EXETER, RI 02822

DATE: 11/21/24
 DRAWN BY: J.M.F.

DE. 08.16.2024 COPYRIGHT 2024 BY DIPRETE ENGINEERING ASSOCIATES, INC.

SHEET 6 OF 14



RI DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
 OFFICE OF WATER RESOURCES
 FRESHWATER WETLANDS PROGRAM
 APPROVED WITH CONDITIONS-AS
 SPECIFIED IN THE LETTER OF APPROVAL
 DATED: **DEC 3 8 2024** FILE #: **24-0232**
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Nancy L. Freeman

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

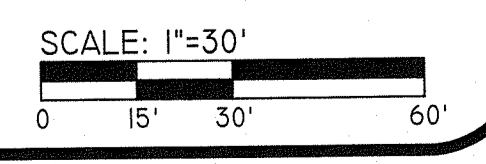
DANA R. NISBET
 No. **11876**
 REGISTERED PROFESSIONAL ENGINEER CIVIL

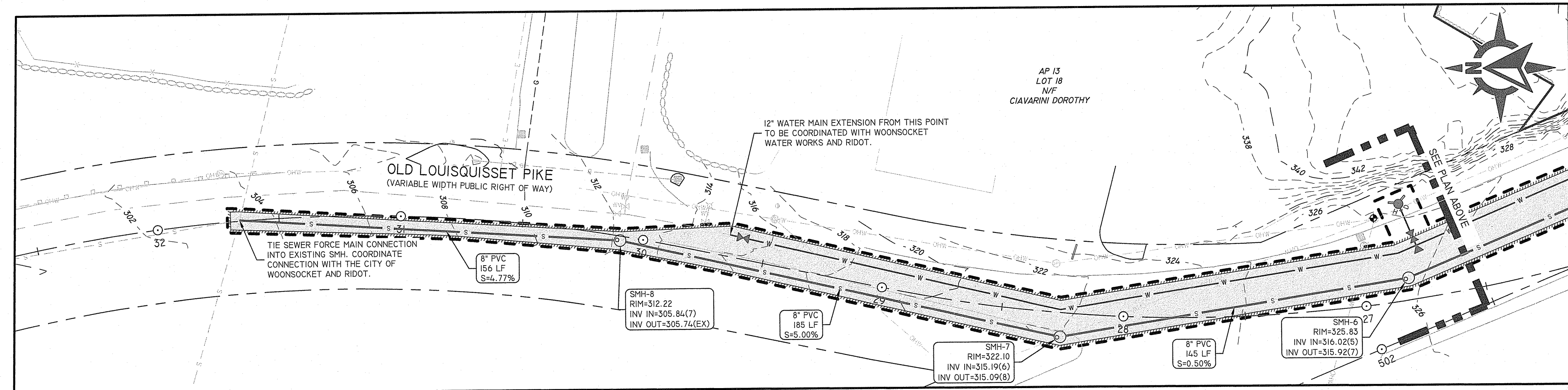
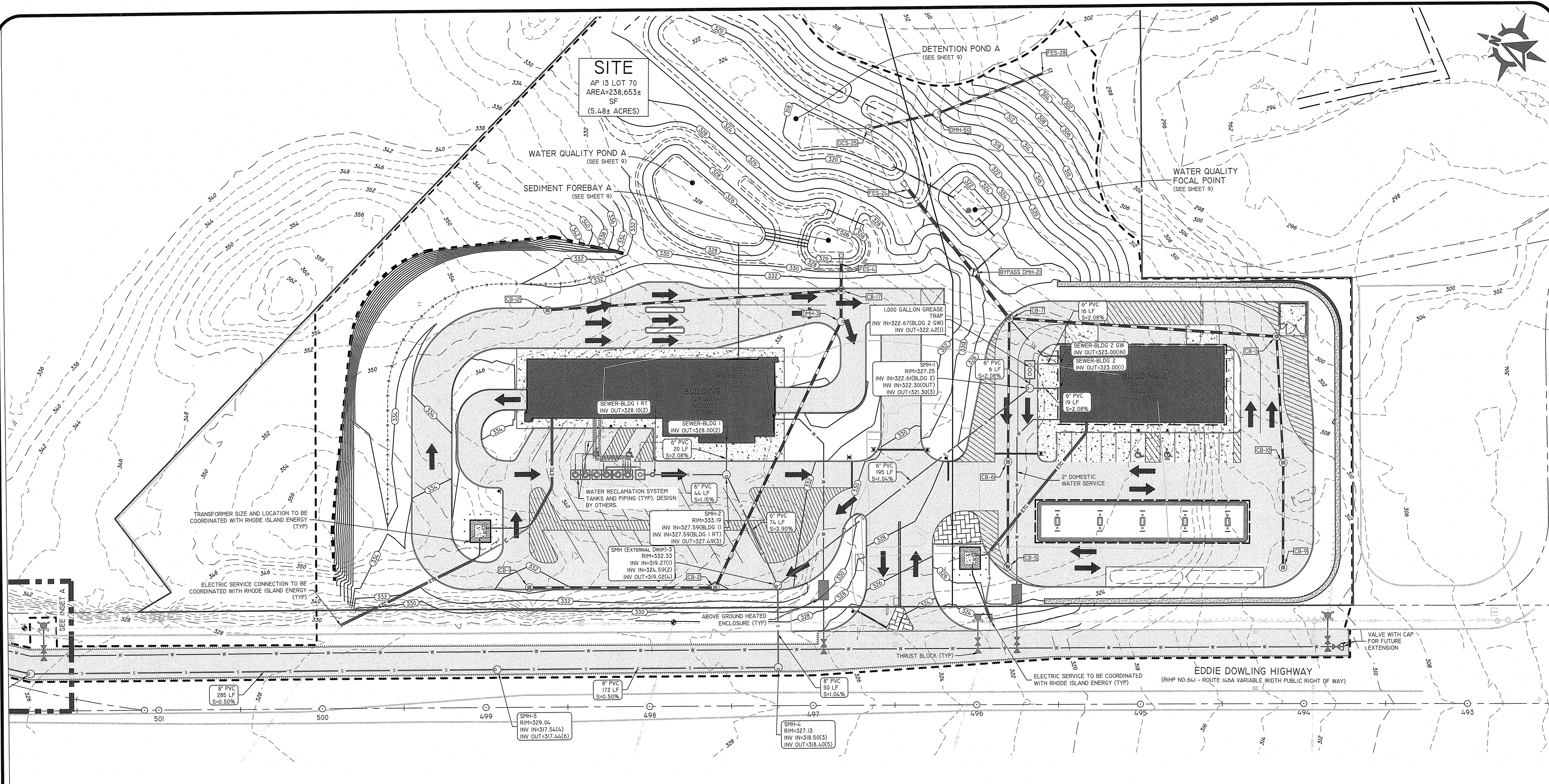
THIS PLAN SET MUST NOT BE USED FOR CONSTRUCTION PURPOSES UNLESS STAMPED, ISSUED FOR CONSTRUCTION AND STAMPED BY THE REGISTERED PROFESSIONAL ENGINEER OF DIPRETE ENGINEERING. DIPRETE ENGINEERING ONLY WARRANTS PLANS ONLY AS DIPRETE ENGINEERING. DIPRETE ENGINEERING DOES NOT WARRANT PLANS BY ANY OTHER PARTY. THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND OSHA COMPLIANCE IN THE IMPLEMENTATION OF THIS PLAN AND DAMAGES INCURRED DUE TO LOCATIONS OF EXISTING UTILITIES.

NO.	DATE	DESCRIPTION	DESIGN BY: J.M.F.
1	11/27/2024	REVISION RESPONSE TO COMMENTS	J.M.F.
2	09/17/2024	REVISION WETLANDS SUBMISSION	J.M.F.

GRADING AND DRAINAGE
THE CROSSINGS AT DOWLING VILLAGE
 ASSESSOR'S PLAT 13 LOT 70
 NORTH SMITHFIELD, RHODE ISLAND
 PREPARED FOR:
CANTON EAST HOLDINGS, LLC
 C/O ANGELO GRILLI
 400 SOUTH COUNTY TRAIL, EXETER, RI 02822

Z:\DEMAN\PROJECTS\2024-001 EDDIE DOWLING HIGHWAY 322\AUTOCAD DRAWINGS\2400-003-P\AN.DWG PLOTTER: 11/22/2024





INSET A

RI DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
 OFFICE OF WATER RESOURCES
 FRESHWATER WETLANDS PROGRAM
 APPROVED WITH CONDITIONS AS
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Danley L. Freeman

SCALE: 1"=30'
 0 15' 30' 60'

DiPrete Engineering
 Two Stafford Court Cranston, RI 02920
 Tel: 401-943-1000 Fax: 401-464-6006 www.diprete-eng.com
 Boston • Providence • Newport

DANA R. NISSET
 No. 11876
 REGISTERED PROFESSIONAL ENGINEER CIVIL

THIS PLAN SET MUST NOT BE USED FOR CONSTRUCTION PURPOSES UNLESS STAMPED AND SIGNED FOR CONSTRUCTION AND STAMPED BY ENGINEERING.
 DIPRETE ENGINEERING ONLY WARRANTS PLANS ON A DIPRETE PROFESSIONAL ENGINEER OF DIPRETE ENGINEERING. DIPRETE ENGINEERING DOES NOT WARRANT PLANS BY ANY OTHER PARTY. THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND REGULATIONS AND FOR OBTAINING ALL NECESSARY UTILITIES SHOWN ON THIS PLAN ARE APPROXIMATE FOR ONLY. DIPRETE ENGINEERING ASSUMES NO RESPONSIBILITY FOR DAMAGES INCURRED DUE TO LOCATION OF EXISTING UTILITIES.

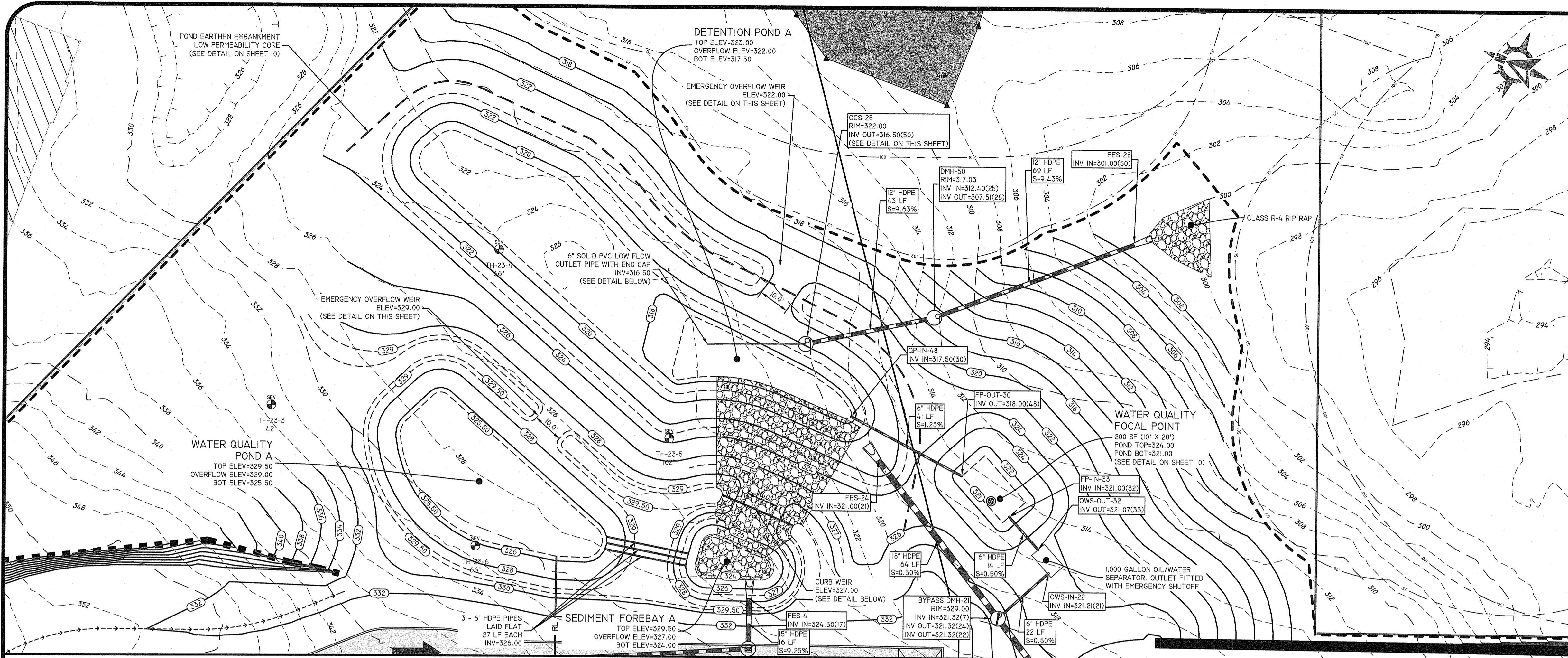
NO.	DATE	DESCRIPTION	DESIGNED BY
1	12/2/2024	ORDER RESPONSE TO COMMENTS	J.M.F.
2	12/17/2024	ORDER WETLANDS SUBMISSION	J.M.F.
3			

UTILITIES PLAN
THE CROSSINGS AT DOWLING VILLAGE
 ASSESSOR'S PLAT 13 LOT 70
 NORTH SMITHFIELD, RHODE ISLAND
 PREPARED FOR:
CANTON EAST HOLDINGS, LLC
 C/O ANGELO GRILLI
 400 SOUTH COUNTY TRAIL, EXETER, RI 02822

DATE: 12/2/2024
 DESIGN BY: J.M.F.

SHEET **8** OF 14

Z:\DEPMAN\PROJECTS\2020-003 EDDIE DOWLING HIGHWAY 322\AUTOCAD DRAWINGS\2020-003-PLAN.DWG PLOTTER: 11/22/2024



BMP COMPLEX A

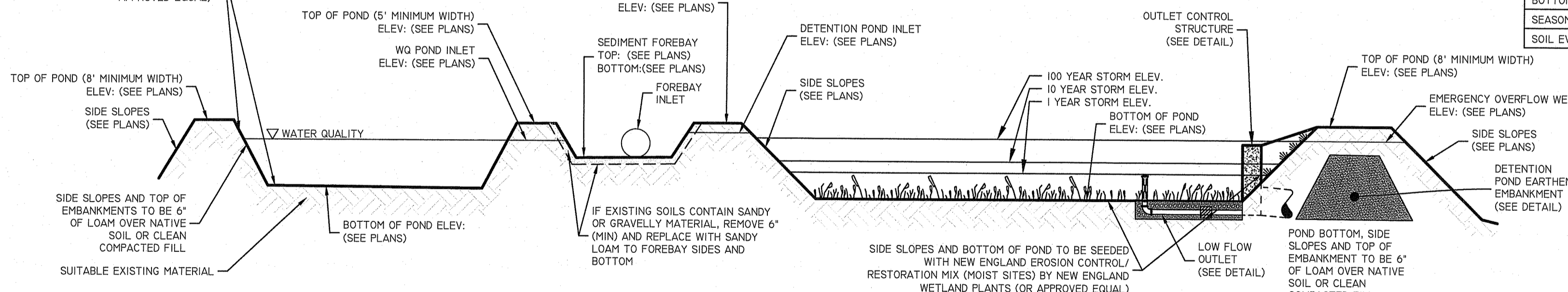
SCALE: 1"=20'
0 10' 20' 40'

DESCRIPTION	WQ-A
TOP OF POND ELEVATION	329.50
100 YEAR STORM ELEVATION	328.75
10 YEAR STORM ELEVATION	327.47
1 YEAR STORM ELEVATION	326.94
WQ STORM ELEVATION	326.07
BOTTOM OF POND ELEVATION	325.50
SEASONAL HIGH GWT ELEVATION	322.50
SOIL EVALUATION	TH-23-6

BOTTOM & SIDE SLOPES OF POND TO BE SEEDED WITH NEW ENGLAND EROSION CONTROL/ RESTORATION MIX (MOIST SITES) BY NEW ENGLAND WETLAND PLANTS (OR APPROVED EQUAL)

POND EXCAVATION MUST BE MONITORED/ INSPECTED BY SITE ENGINEER AND/ OR GEOTECHNICAL ENGINEER AT TIME OF INITIAL EXCAVATION TO BOTTOM OF POND, AND AS REQUIRED BY DESIGN ENGINEER. CONTRACTOR MUST PROVIDE ADEQUATE NOTICE FOR INSPECTION.

NOTE: LIMITS OF INFILTRATION POND TO BE STAKED OUT AND NOT USED AS A TEMPORARY SEDIMENT BASIN DURING CONSTRUCTION (NO CONSTRUCTION TRAFFIC ALLOWED WITHIN FILTER LIMITS)



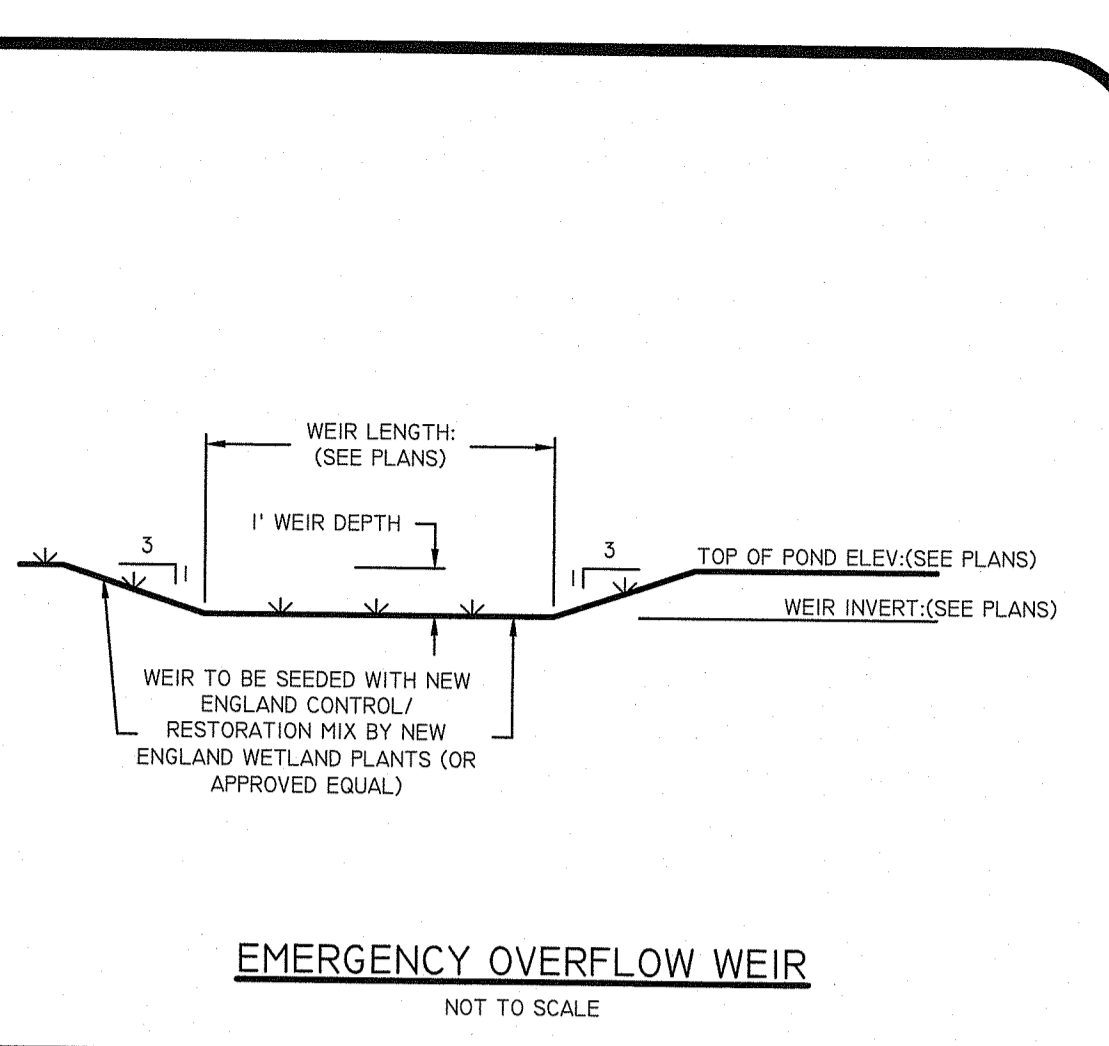
WQ INFILTRATION POND BMP SYSTEM
NOT TO SCALE

WQ INFILTRATION POND BMP SYSTEM
NOT TO SCALE

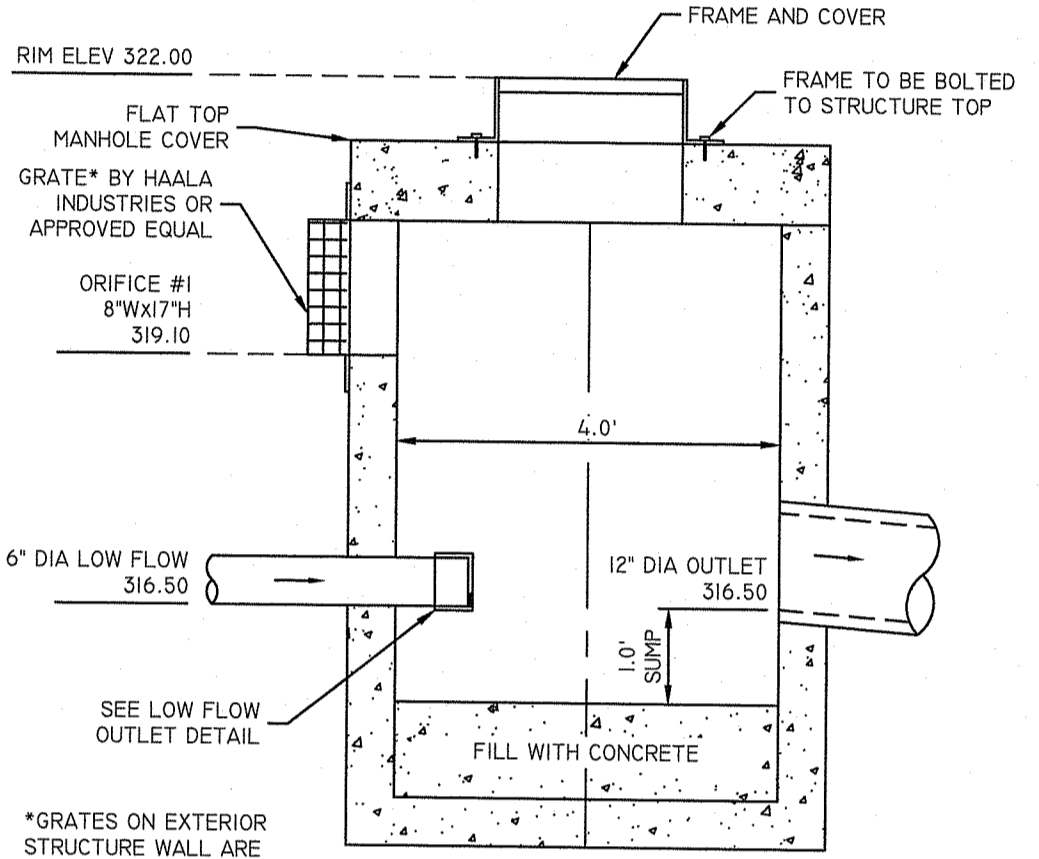
DESCRIPTION	DP-A
TOP OF POND ELEVATION	323.00
100 YEAR STORM ELEVATION	321.89
10 YEAR STORM ELEVATION	320.21
1 YEAR STORM ELEVATION	319.05
BOTTOM OF POND ELEVATION	317.50
SEASONAL HIGH GWT ELEVATION	316.50
SOIL EVALUATION	TH-23-5

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Nancy L. Freeman

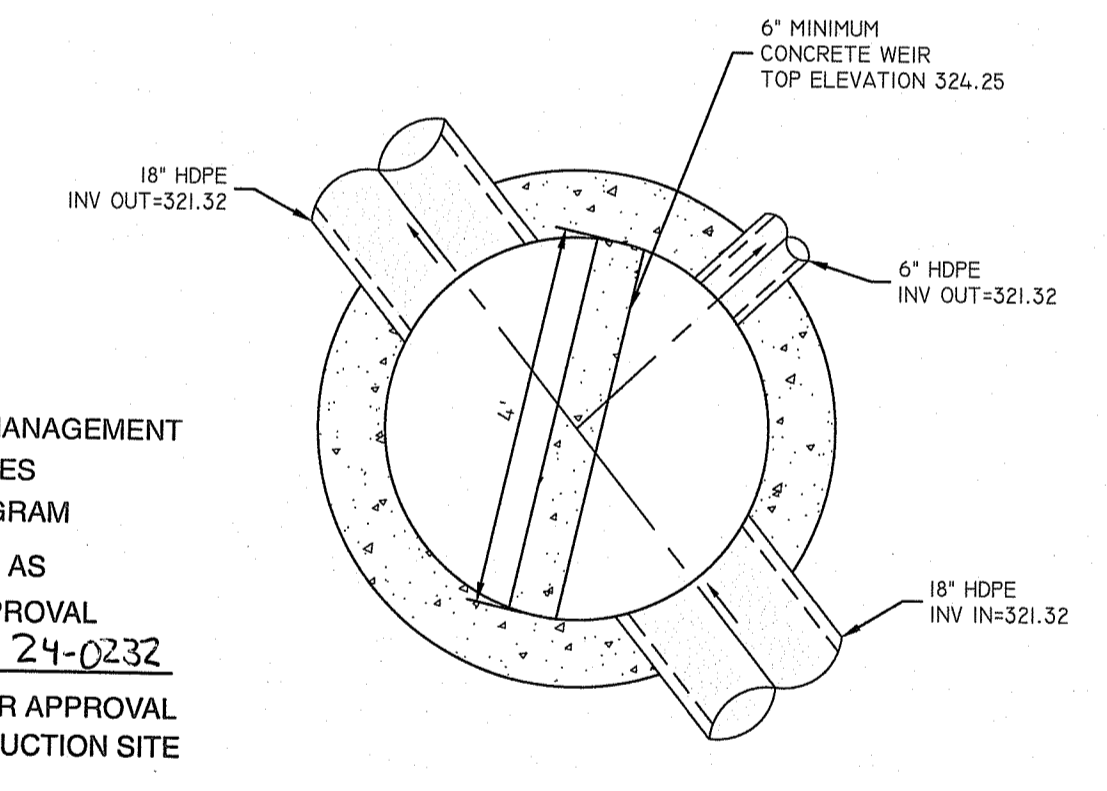


EMERGENCY OVERFLOW WEIR
NOT TO SCALE

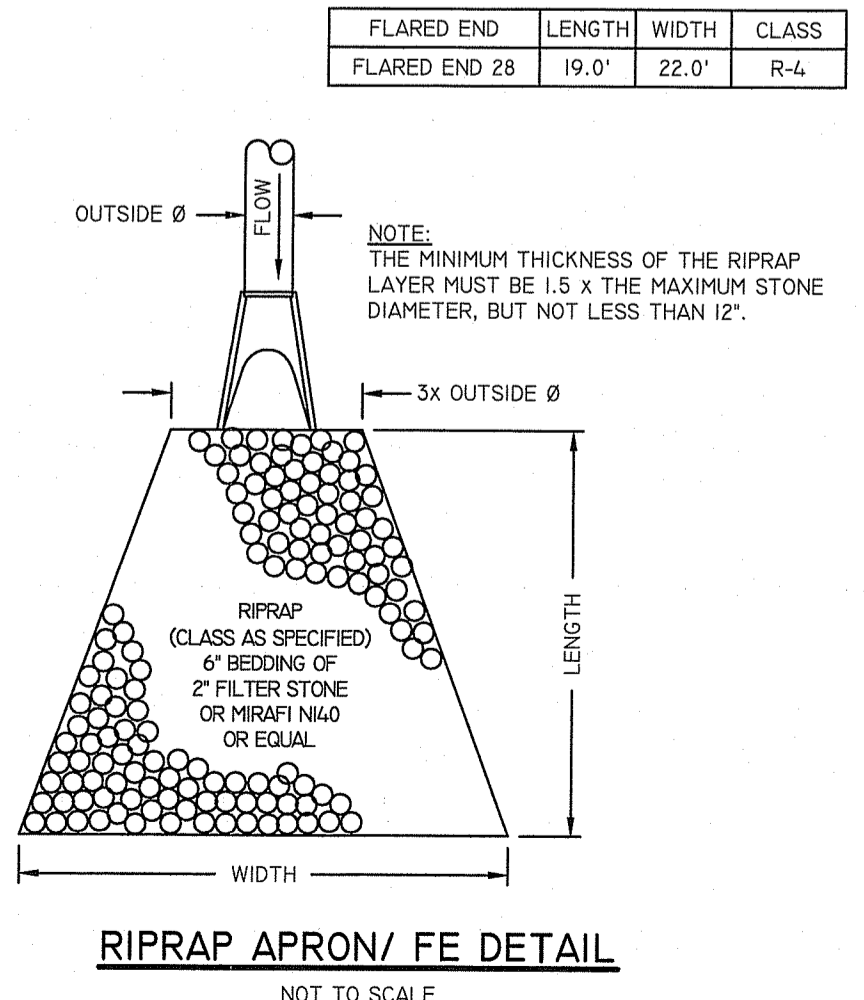


OUTLET CONTROL STRUCTURE (OCS-25)
4' DIAMETER MANHOLE
SCALE: 1"=2'

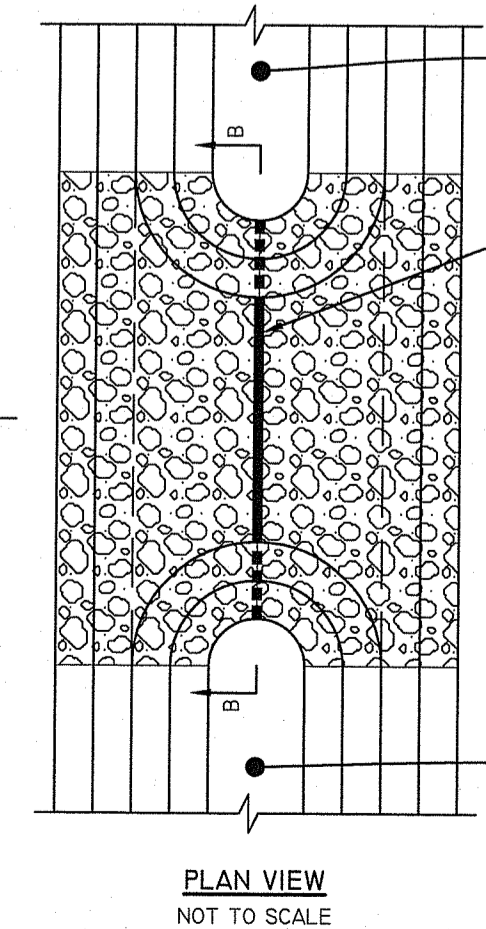
*GRATES ON EXTERIOR STRUCTURE WALL ARE TO BE SAME SIZE AS ORIFICE OR LARGER



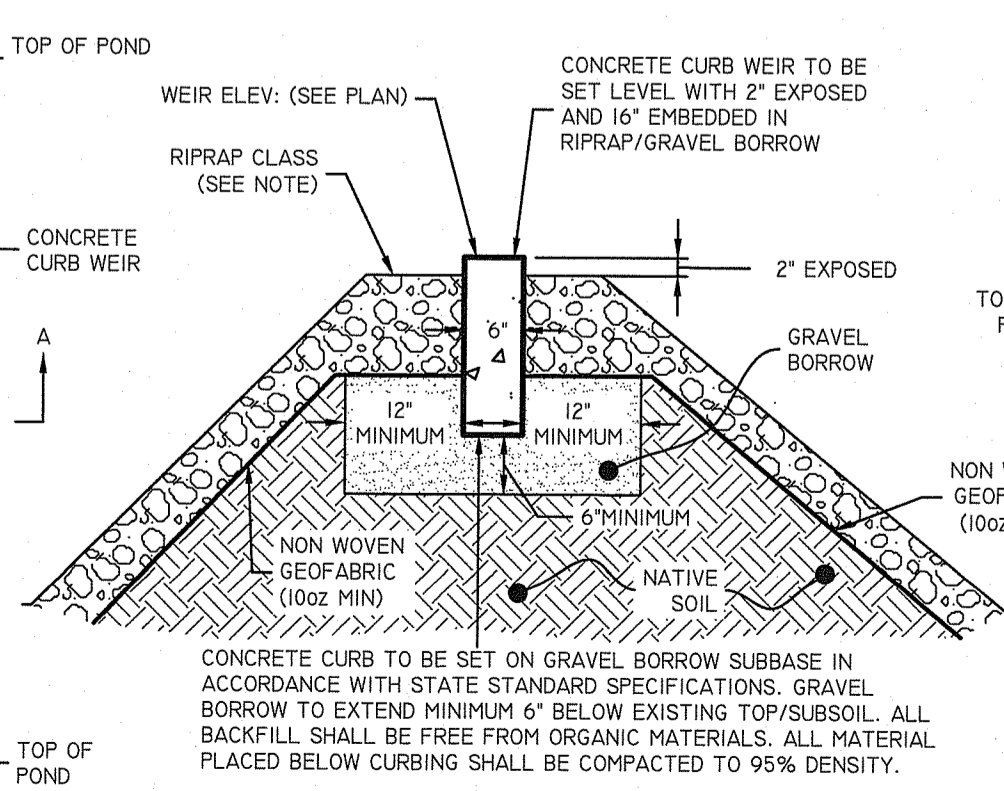
BYPASS DMH-21 (4' Ø MANHOLE)
SCALE: 1"=2'



RIPRAP APRON/ FE DETAIL
NOT TO SCALE

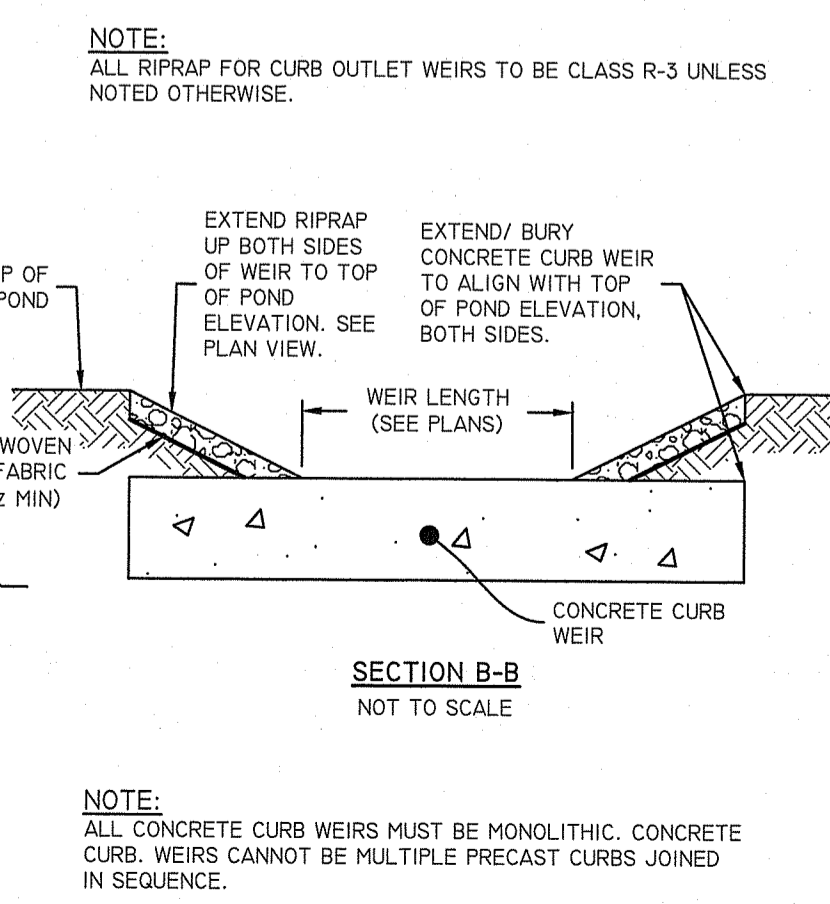


PLAN VIEW
NOT TO SCALE



SECTION A-A
NOT TO SCALE

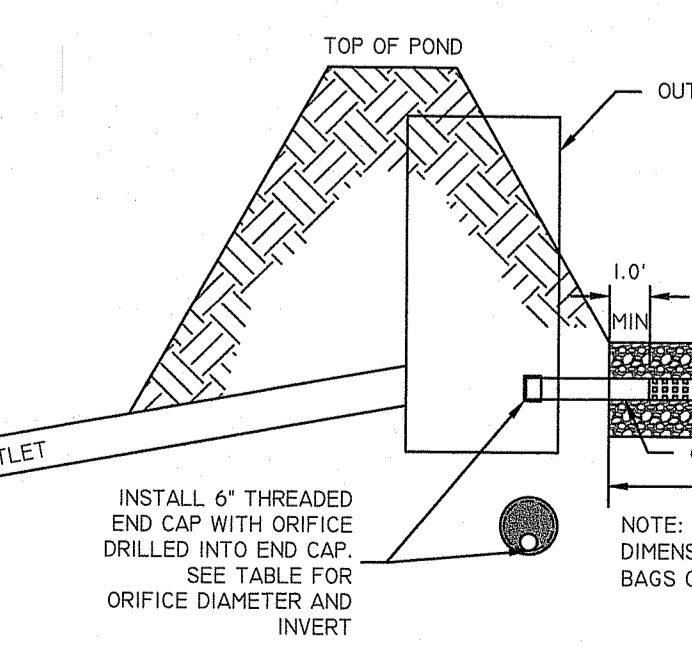
CURB OUTLET WEIR
NOT TO SCALE



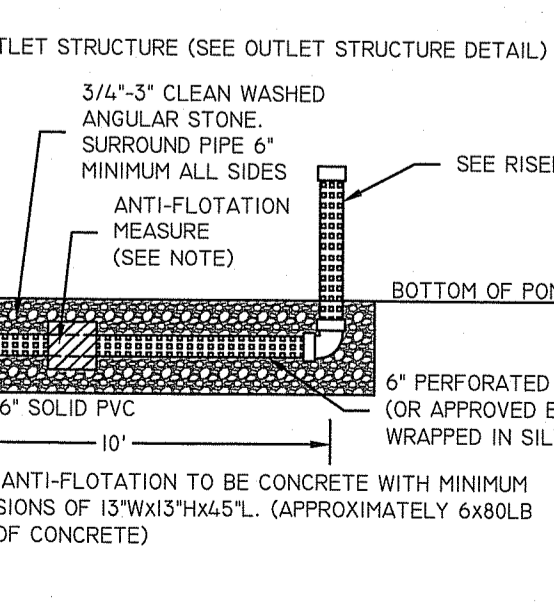
SECTION B-B
NOT TO SCALE

NOTE: ALL CONCRETE CURB WEIRS MUST BE MONOLITHIC. CONCRETE CURB WEIRS CANNOT BE MULTIPLE PRECAST CURBS JOINED IN SEQUENCE.

INTERNAL ORIFICE SCHEDULE		
LOCATION	DIAMETER	INVERT
POND A	2.25'	316.50



LOW FLOW OUTLET
NOT TO SCALE



RISER DETAIL

BMP PLAN
THE CROSSINGS AT DOWLING VILLAGE
ASSESSOR'S PLAT 13 LOT 70
NORTH SMITHFIELD, RHODE ISLAND
PREPARED FOR:
CANTON EAST HOLDINGS, LLC
C/O ANGELO GRILLI
400 SOUTH COUNTY TRAIL, EXETER, RI 02822

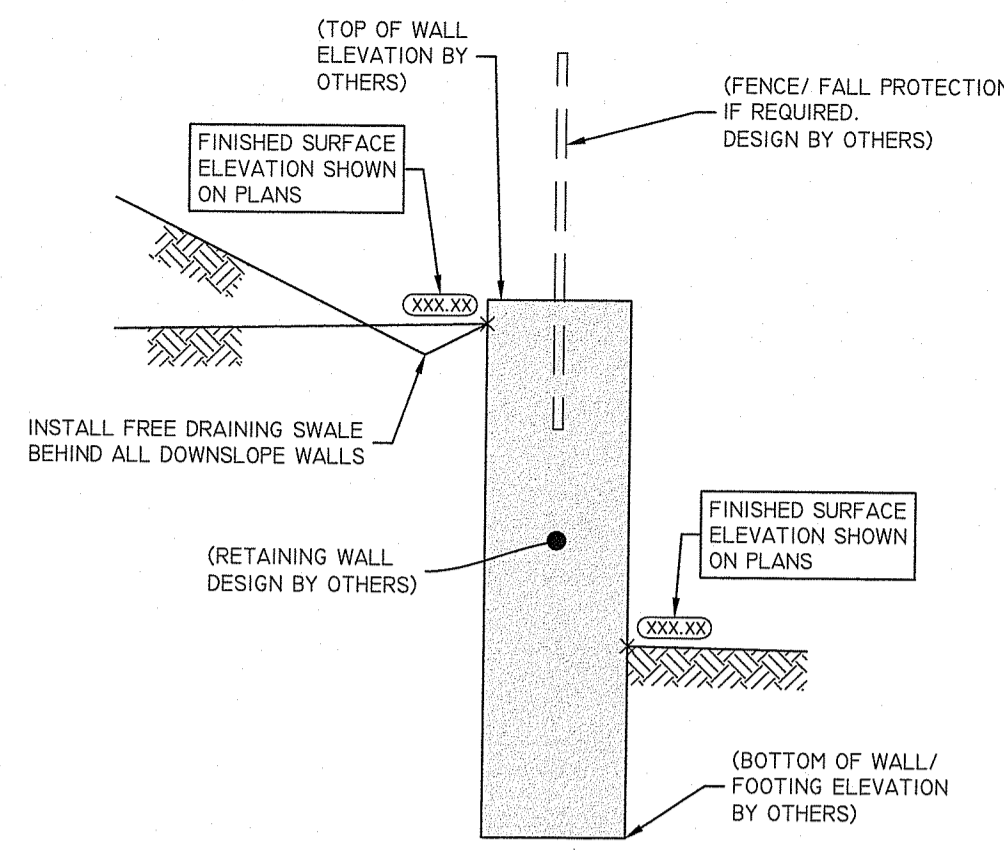
DANA R. NISBET
No. **11876**
1/24/21
REGISTERED PROFESSIONAL ENGINEER CIVIL

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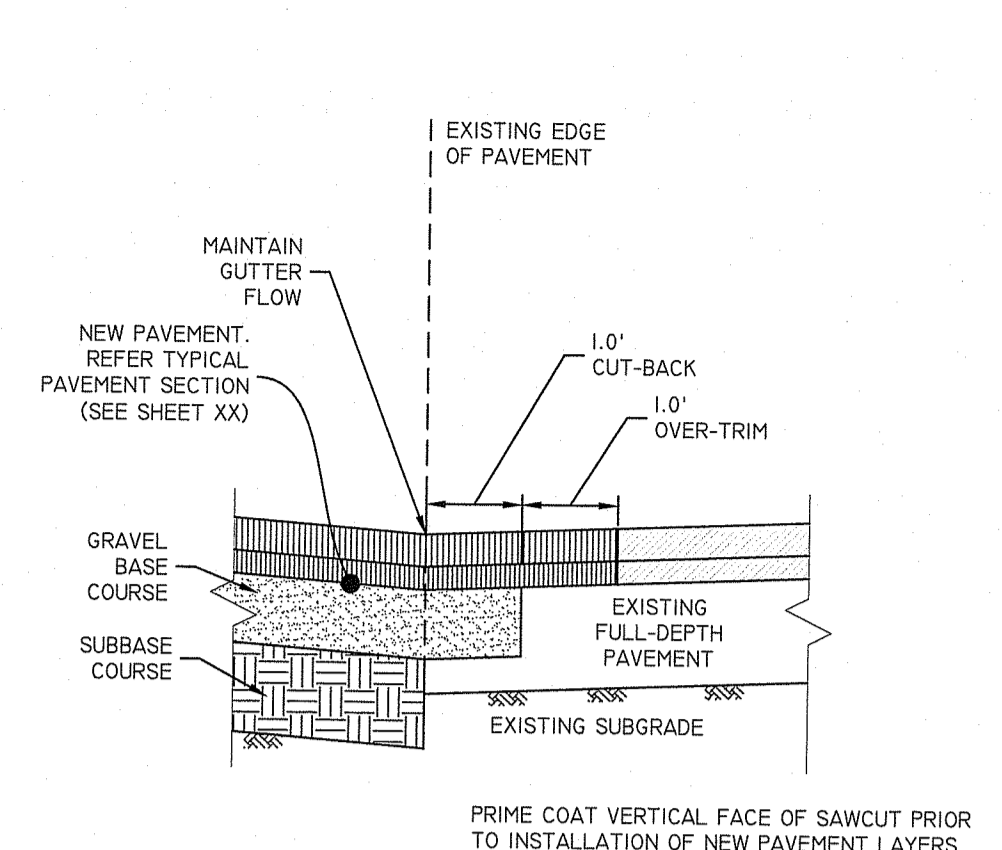
NO.	DATE	DESCRIPTION	BY	CHKD.
1	12-24-2024	ISSUE RESPONSE TO COMMENTS	J.M.F.	J.M.F.
2	12-24-2024	ISSUE RESPONSE TO SUBMISSION	J.M.F.	J.M.F.

DESIGN BY: J.M.F.
DRAWN BY: J.M.F.

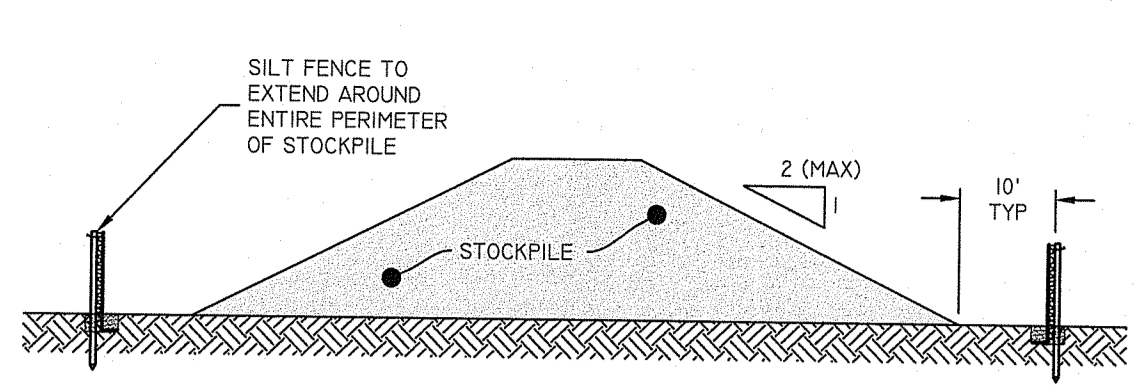
Diprete Engineering
Two Stafford Court, Cranston, RI 02920
tel: 401-943-1000 fax: 401-641-6006 www.diprete-eng.com
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GRADING AT RETAINING WALL
NOT TO SCALE

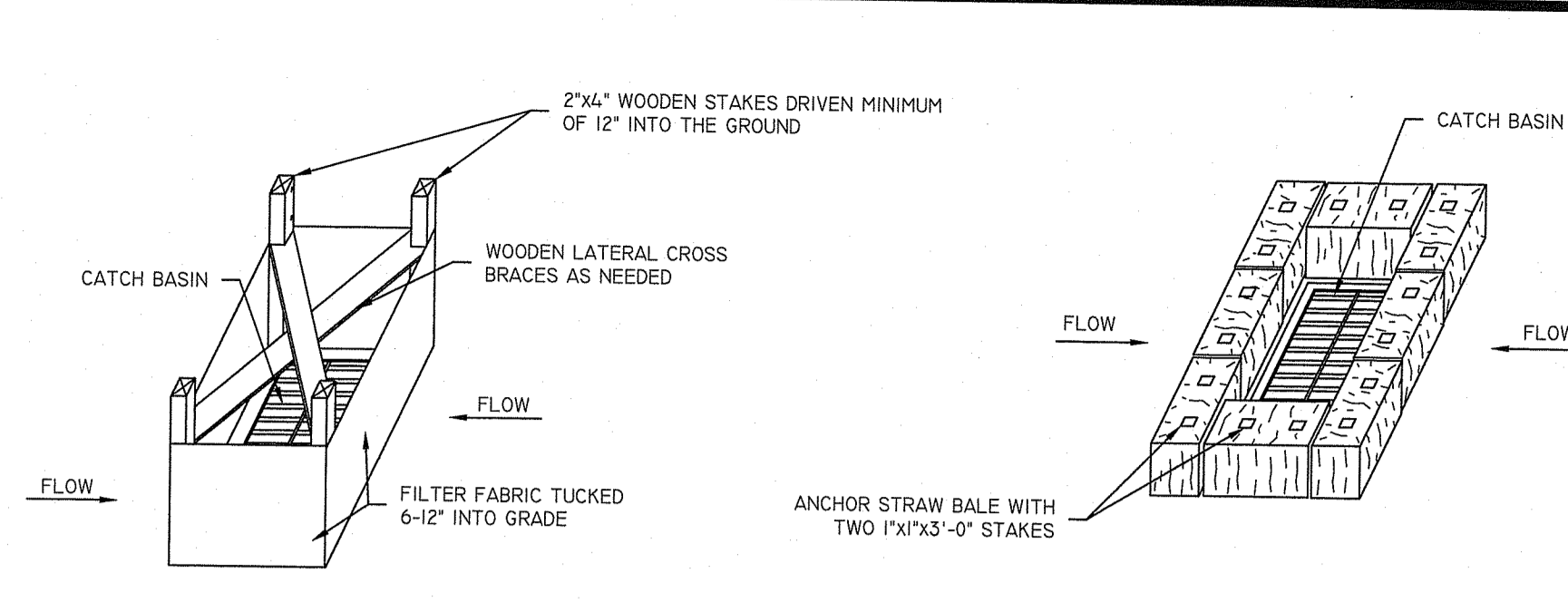


PAVEMENT TIE-IN DETAIL
NOT TO SCALE



STOCKPILE PROTECTION
NOT TO SCALE

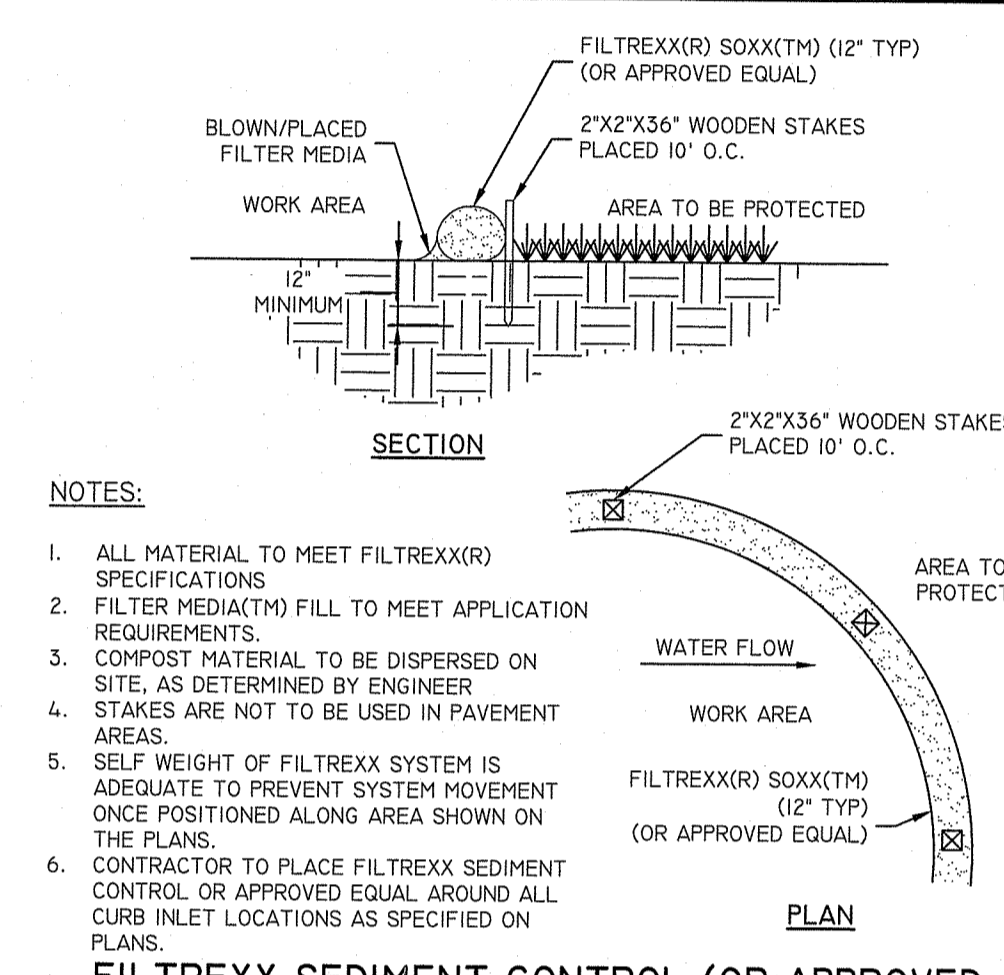
NOTES:
 1. ALL STOCKPILES MUST BE INSTALLED AND MAINTAINED IN ACCORDANCE WITH SECTION 3 "STOCKPILE AND STAGING AREA MANAGEMENT" OF THE RHODE ISLAND SOIL EROSION AND SEDIMENT CONTROL HANDBOOK (CURRENT EDITION).
 2. DIVERT ALL STORMWATER AWAY FROM STOCKPILES.
 3. SOIL STOCKPILES THAT ARE NOT TO BE USED WITHIN 30 DAYS MUST BE SEED AND MULCHED IMMEDIATELY AFTER FORMATION OF THE STOCKPILE WITH SEED MIX COMPATIBLE WITH THE SOIL TYPE.
 4. STOCKPILE AND SILT FENCE MUST BE INSPECTED AT LEAST ONCE PER WEEK AND AFTER RAIN EVENTS IN EXCESS OF 1/2" OF RAINFALL. REPAIR/REPLACE SILT FENCE (AND STOCKPILE COVERS WHERE APPLICABLE) AS NEEDED TO KEEP THEM FUNCTIONING ADEQUATELY.
 5. SEDIMENT TRAPPED BY SILT FENCES MUST BE REMOVED AND PROPERLY DISPOSED OF WHENEVER SIGNIFICANT ACCUMULATION OCCURS.



CATCH BASIN EROSION CONTROL
NOT TO SCALE

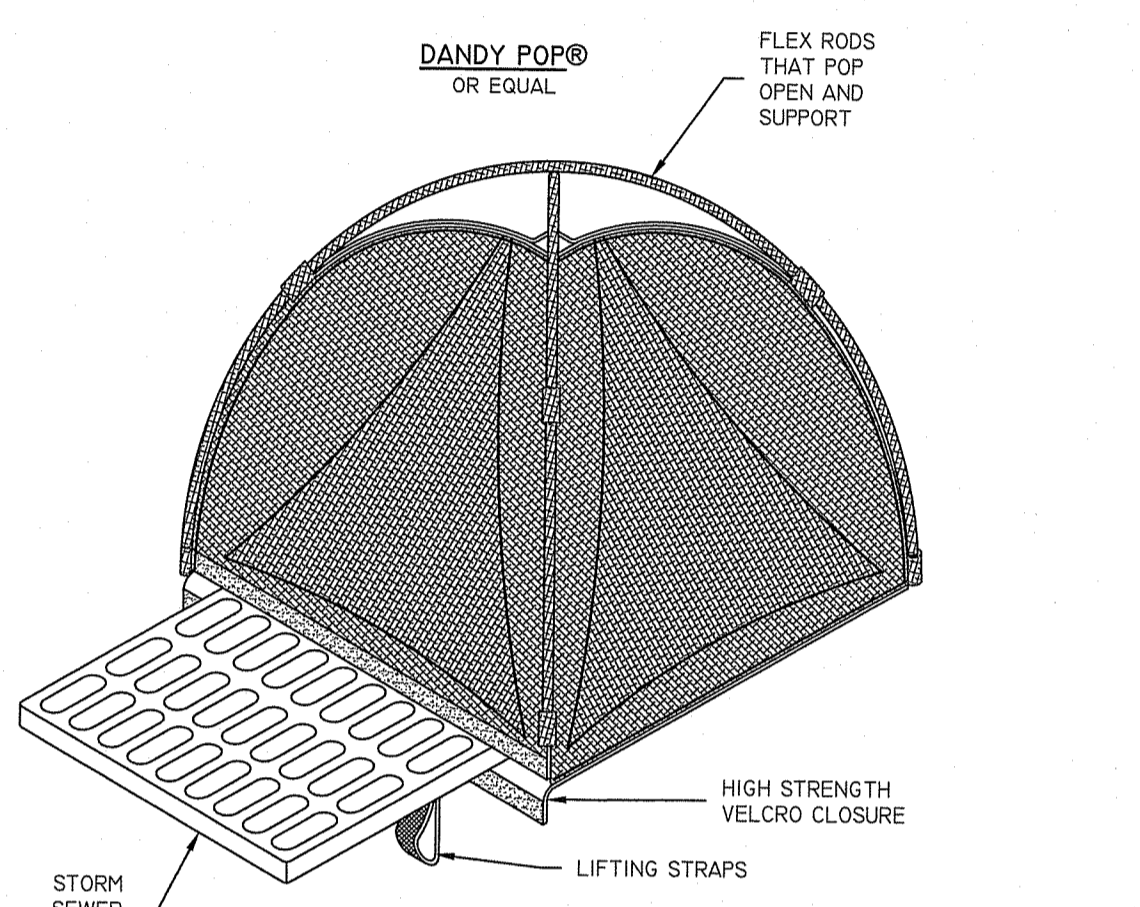
NOTES:
 1. STORMWATER INLETS WHICH DO NOT DISCHARGE TO SEDIMENT TRAPS OR BASINS MUST BE PROTECTED UNTIL THE TRIBUTARY AREAS ARE STABILIZED.
 2. SEDIMENT MUST BE REMOVED FROM INLET PROTECTION AFTER EACH STORM.
 3. REFER TO LONG TERM/SHORT TERM MAINTENANCE NOTES AND OPERATION & MAINTENANCE PLAN FOR TIMING OF PLACEMENT AND REMOVAL OF EROSION CONTROL ELEMENTS.

RI DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
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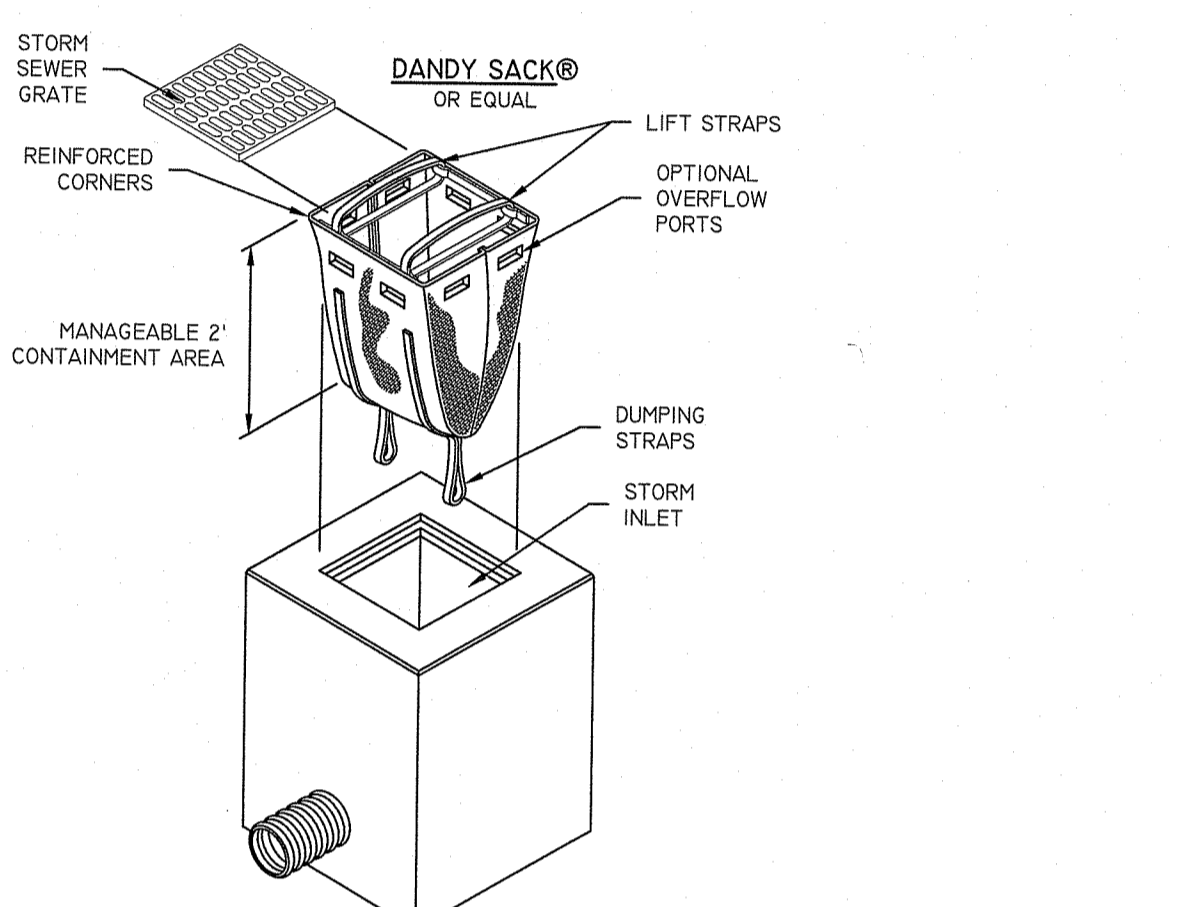


FILTREXX SEDIMENT CONTROL (OR APPROVED EQUAL)
NOT TO SCALE

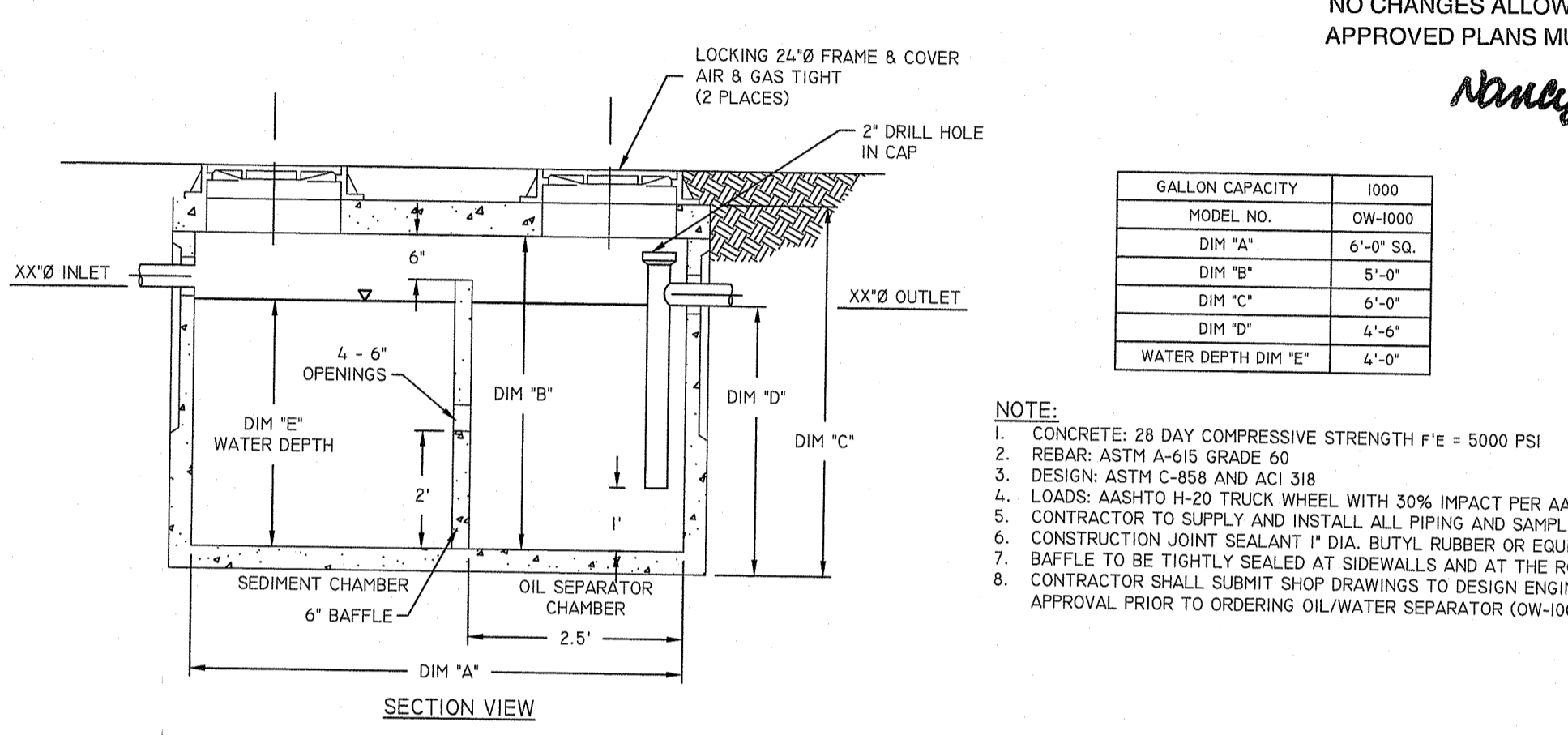
NOTES:
 1. ALL MATERIAL TO MEET FILTREXX(R) SPECIFICATIONS.
 2. FILTER MEDIA(TM) FILL TO MEET APPLICATION REQUIREMENTS.
 3. COMPOST MATERIAL TO BE DISPERSED ON SITE, AS DETERMINED BY ENGINEER.
 4. STAKES ARE NOT TO BE USED IN PAVEMENT AREAS.
 5. SELF WEIGHT OF FILTREXX SYSTEM IS ADEQUATE TO PREVENT SYSTEM MOVEMENT ONCE POSITIONED ALONG AREA SHOWN ON THE PLANS.
 6. CONTRACTOR TO PLACE FILTREXX SEDIMENT CONTROL OR APPROVED EQUAL AROUND ALL CURB INLET LOCATIONS AS SPECIFIED ON PLANS.



INLET SEDIMENT CONTROL DEVICES
NOT TO SCALE



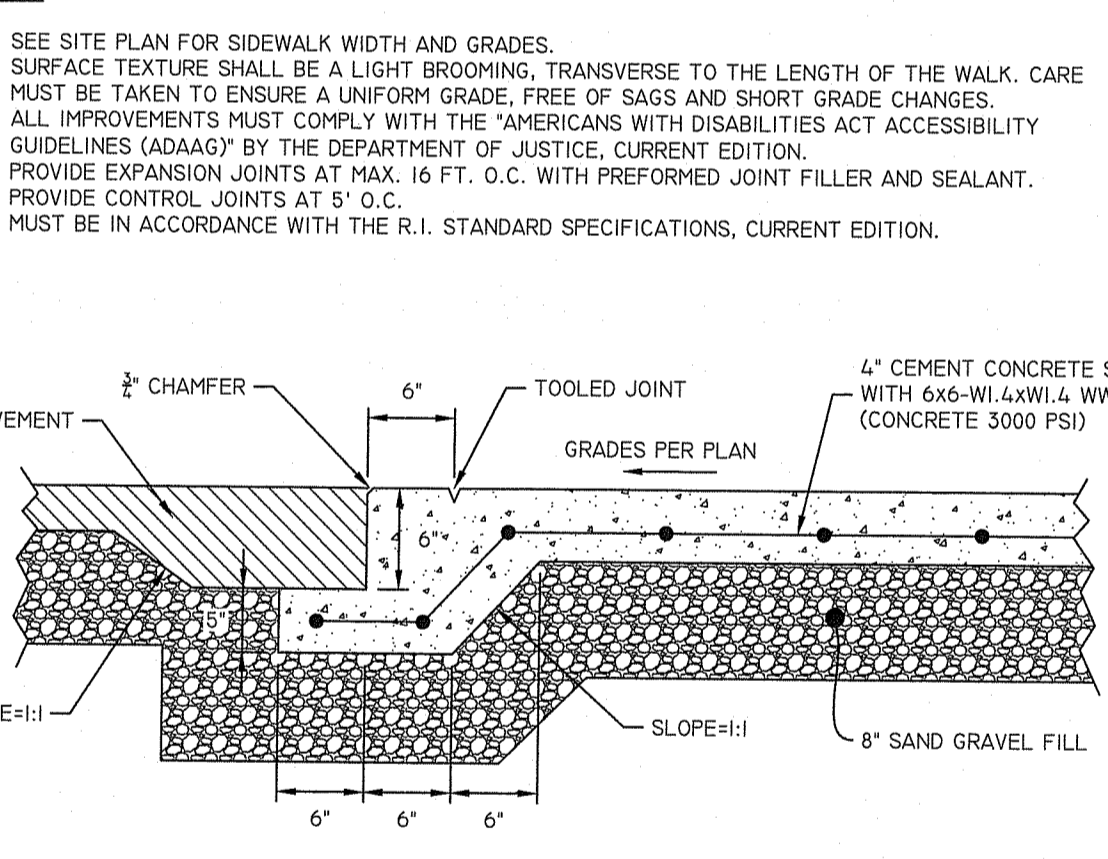
DANDY SACK
NOT TO SCALE



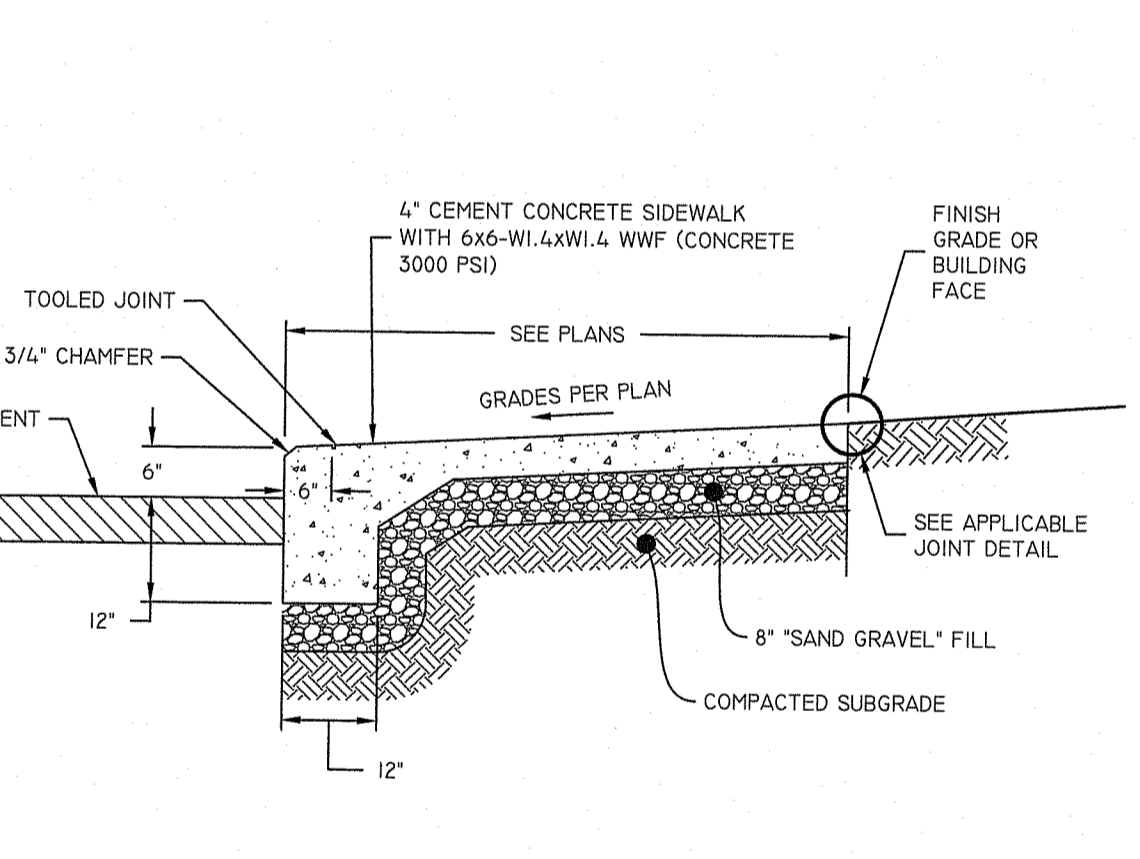
1,000 GALLON OIL/WATER SEPARATOR (OLD CASTLE PRECAST OR APPROVED EQUAL)
NOT TO SCALE

GALLON CAPACITY	1000
MODEL NO.	OW-1000
DIM "A"	5'-0" SQ.
DIM "B"	5'-0"
DIM "C"	6'-0"
DIM "D"	4'-6"
WATER DEPTH DIM "E"	4'-0"

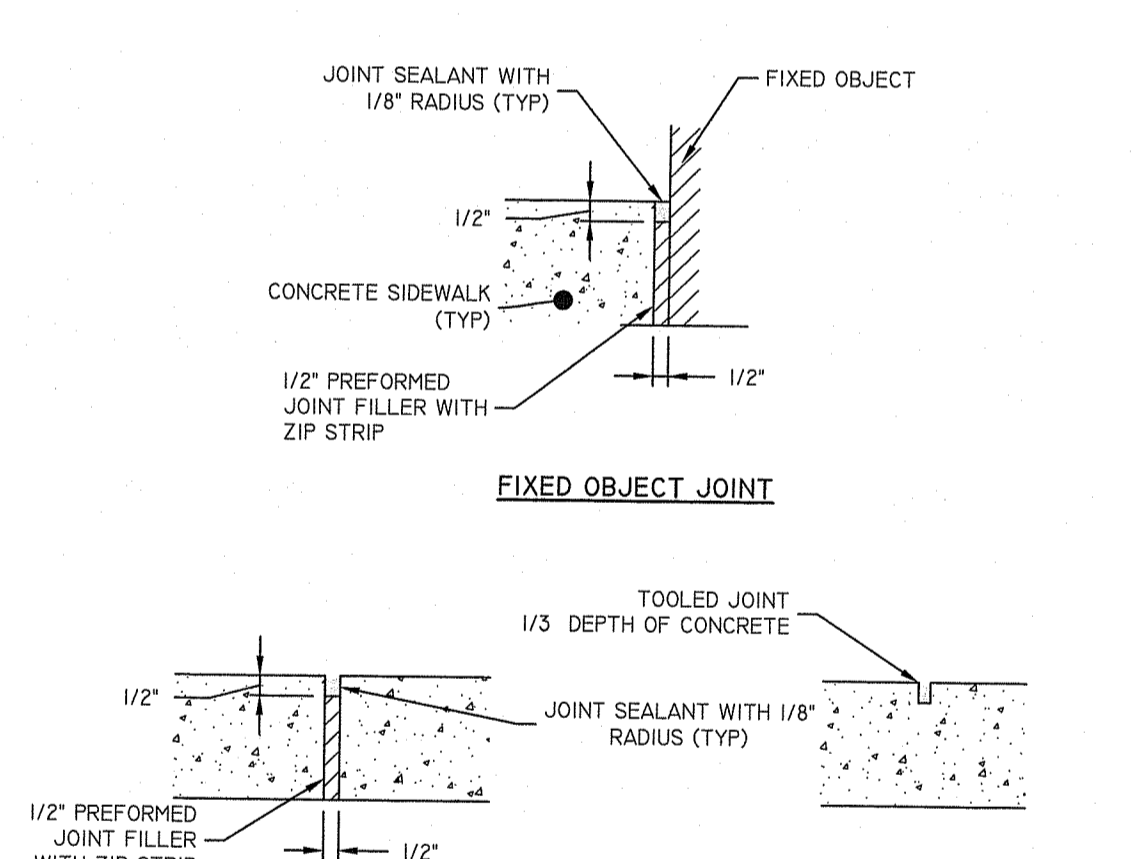
NOTE:
 1. CONCRETE 28 DAY COMPRESSIVE STRENGTH F'C = 5000 PSI
 2. REBAR: ASTM A-615 GRADE 60
 3. DESIGN: ASTM C-885 AND ACI 318
 4. LOADS: AASHTO H-20 TRUCK WHEEL WITH 30% IMPACT PER AASHTO
 5. CONTRACTOR TO SUPPLY AND INSTALL ALL PIPING AND SAMPLING TEES
 6. CONSTRUCTION JOINT SEALANT 1" DIA. BUTYL RUBBER OR EQUIVALENT
 7. BAFFLE TO BE TIGHTLY SEALED AT SIDEWALLS AND AT THE ROOF
 8. CONTRACTOR SHALL SUBMIT SHOP DRAWINGS TO DESIGN ENGINEER FOR APPROVAL PRIOR TO ORDERING OIL/WATER SEPARATOR (OW-1000).



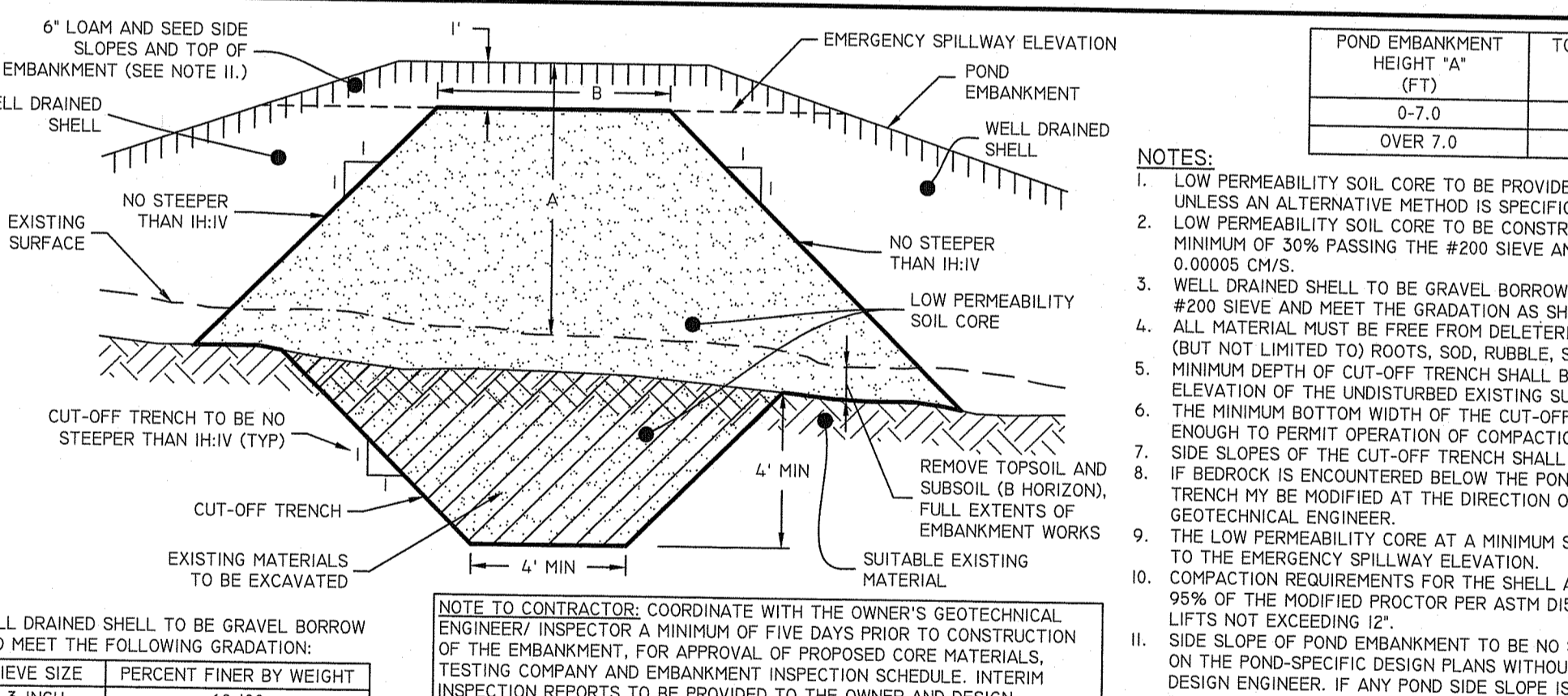
MONOLITHIC CURB AND SIDEWALK (FLUSH)
NOT TO SCALE



MONOLITHIC CURB AND SIDEWALK (6" REVEAL)
NOT TO SCALE



EXPANSION JOINT
CONTROL JOINT

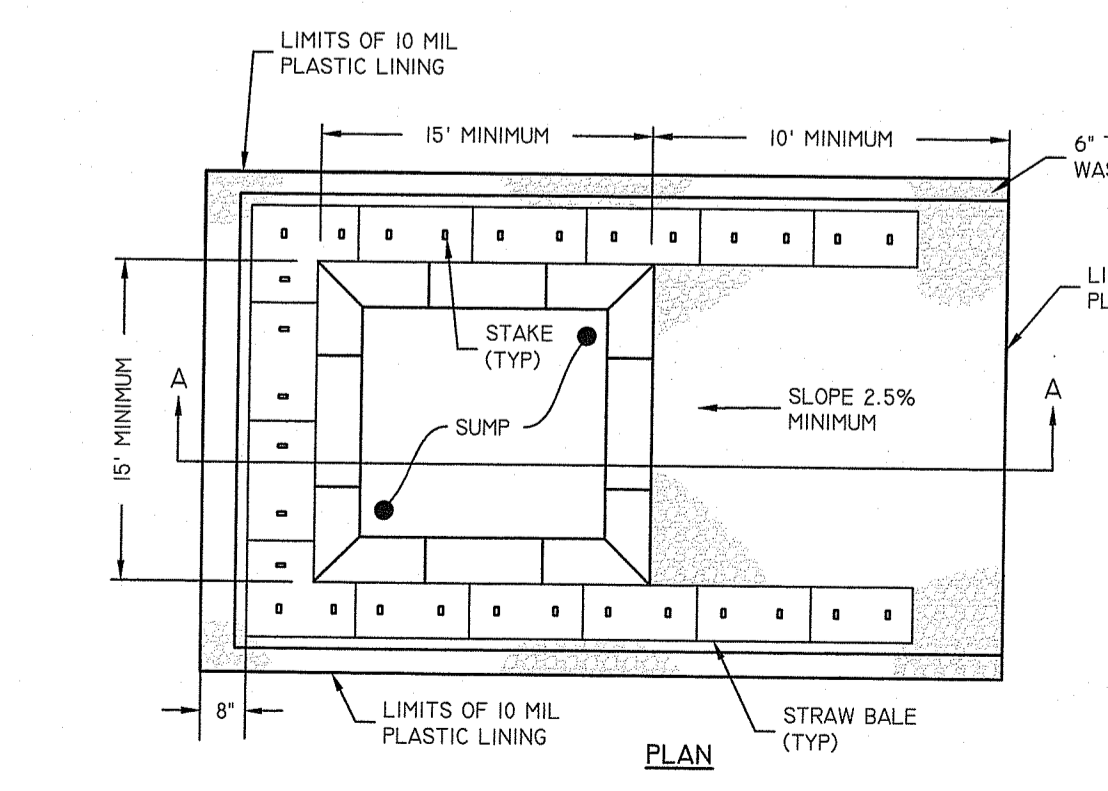


POND EARTHEN EMBANKMENT: LOW PERMEABILITY CORE
NOT TO SCALE

SIEVE SIZE	PERCENT FINER BY WEIGHT
3-INCH	100
2-INCH	90-95
1 1/2-INCH	75-80
NO. 40	40-75
NO. 100	10-45
NO. 200	0-10

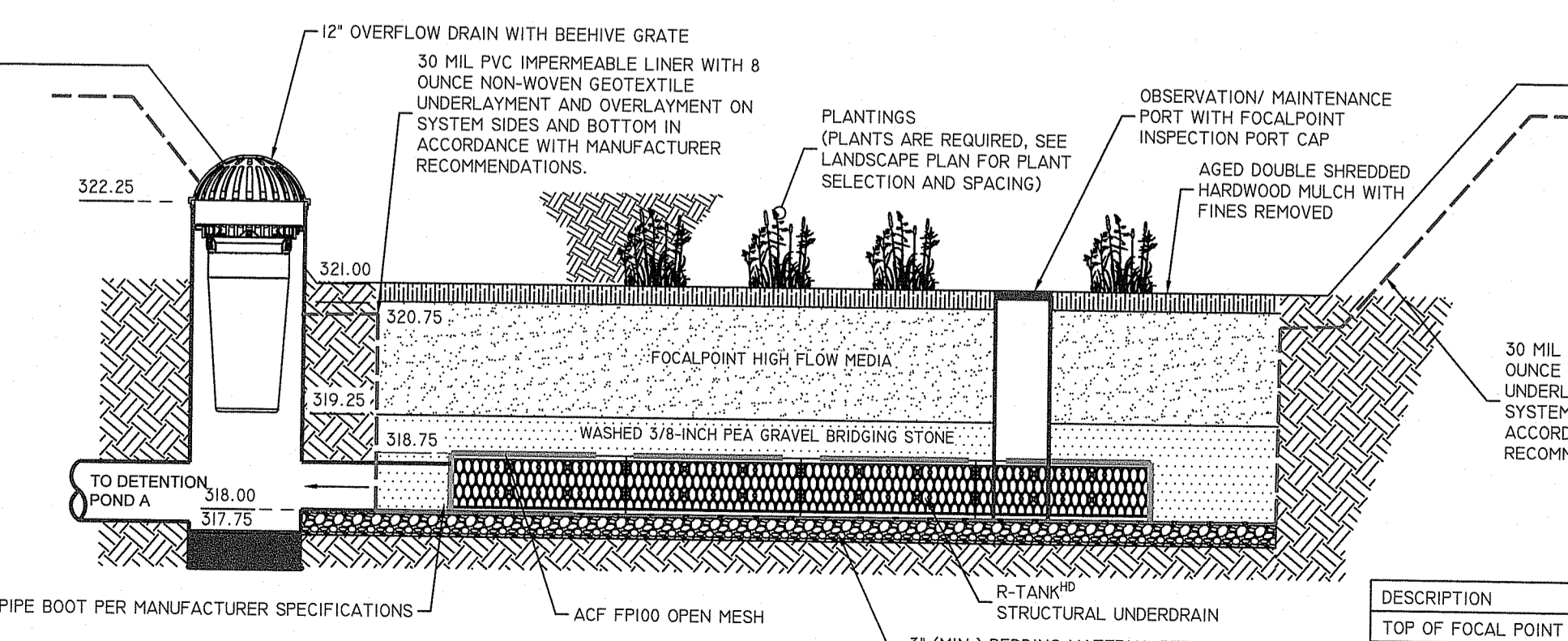
NOTE TO CONTRACTOR: COORDINATE WITH THE OWNER'S GEOTECHNICAL ENGINEER/INSPECTOR A MINIMUM OF FIVE DAYS PRIOR TO CONSTRUCTION OF THE EMBANKMENT. FOR APPROVAL OF PROPOSED CORE MATERIALS, TESTING COMPANY AND EMBANKMENT INSPECTION SCHEDULE. INTERIM INSPECTION REPORTS TO BE PROVIDED TO THE OWNER AND DESIGN ENGINEER AT INTERVALS AS DETERMINED BY THE GEOTECHNICAL ENGINEER.

NOTES:
 1. LOW PERMEABILITY SOIL CORE TO BE PROVIDED FOR ALL POND EMBANKMENTS UNLESS AN ALTERNATIVE METHOD IS SPECIFICALLY NOTED ON THE PLANS.
 2. LOW PERMEABILITY SOIL CORE TO BE CONSTRUCTED OF A MATERIAL WITH A MINIMUM OF 30% PASSING THE #200 SIEVE AND A MAXIMUM PERMEABILITY OF 0.00005 CM/S.
 3. WELL DRAINED SHELL TO BE GRAVEL BORROW WITH LESS THAN 10% PASSING THE #200 SIEVE AND MEET THE GRADATION AS SHOWN ON THIS DETAIL.
 4. ALL MATERIAL MUST BE FREE FROM DELETERIOUS/ ORGANIC MATTER, INCLUDING (BUT NOT LIMITED TO) ROOTS, SOIL, RUBBLE, SNOW, ICE, RUBBISH ETC.
 5. MINIMUM DEPTH OF CUT-OFF TRENCH SHALL BE 4' MEASURED FROM THE LOWEST ELEVATION OF THE UNDISTURBED EXISTING SURFACE INTERFACE. SEE DETAIL.
 6. ENOUGH TO PERMIT OPERATION OF COMPACTION EQUIPMENT.
 7. SIDE SLOPES OF THE CUT-OFF TRENCH SHALL BE NO STEEPER THAN 1H:1V.
 8. IF BEDROCK IS ENCOUNTERED BELOW THE POND EMBANKMENT THE CUT OFF TRENCH MAY BE MODIFIED AT THE DIRECTION OF A SUITABLY QUALIFIED GEOTECHNICAL ENGINEER.
 9. THE LOW PERMEABILITY CORE AT A MINIMUM SHALL EXTEND UP BOTH ABUTMENTS TO THE EMERGENCY SPILLWAY ELEVATION.
 10. COMPACTION REQUIREMENTS FOR THE SHELL AND LOW PERMEABILITY CORE TO BE 95% OF THE MODIFIED PROCTOR PER ASTM D1557. ALL FILL TO BE PLACED IN LIFTS NOT EXCEEDING 12".
 11. SIDE SLOPE OF POND EMBANKMENT TO BE NO STEEPER THAN THE SLOPES SHOWN ON THE POND-SPECIFIC DESIGN PLANS WITHOUT WRITTEN DIRECTION FROM THE DESIGN ENGINEER. IF ANY POND SIDE SLOPE IS STEEPER THAN 3H:1V, SLOPE PROTECTION MUST BE UTILIZED ON POND EMBANKMENT, WHICH MAY INCLUDE (BUT NOT BE LIMITED TO) RIPRAP AND/OR EROSION CONTROL MATS.
 12. THE LOW PERMEABILITY CORE MUST BE KEPT FREE FROM STANDING WATER DURING THE BACKFILL OPERATION.
 13. ALL EMBANKMENT INSTALLATIONS TO BE SUPERVISED BY A SUITABLY QUALIFIED GEOTECHNICAL ENGINEER. SEE "NOTE TO CONTRACTOR".
 14. ANY PROPOSED DEVIATIONS FROM THIS DETAIL MUST BE DESIGNED BY A SUITABLY QUALIFIED PROFESSIONAL GEOTECHNICAL ENGINEER AND SUBMITTED TO THE SITE ENGINEER (AND A/E) WHERE REQUIRED) FOR REVIEW PRIOR TO CONSTRUCTION.



CONCRETE WASHOUT AREA
NOT TO SCALE

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



TYPICAL FOCAL POINT SECTION WITH OVERFLOW STRUCTURE
NOT TO SCALE

DESCRIPTION	FOCAL POINT
TOP OF FOCAL POINT POND ELEVATION	324.00
BOTTOM OF FOCAL POINT ELEVATION	318.75
100 YEAR STORM ELEVATION	323.18
10 YEAR STORM ELEVATION	322.42
1 YEAR STORM ELEVATION	322.40
SEASONAL HIGH GWL ELEVATION	315.50
SOIL EVALUATION	TH-23-5

DiPrete Engineering
 Two Stafford Court Cranston, RI 02920
 Tel: (401) 943-1000 Fax: (401) 464-6006 www.diprete-eng.com
 Boston • Providence • Newport

DANA R. NISSET
 No. 11876
 REGISTERED PROFESSIONAL ENGINEER CIVIL

THIS PLAN SET MUST NOT BE USED FOR CONSTRUCTION PURPOSES UNLESS IT IS ACCOMPANIED BY THE SIGNATURE AND SEAL OF A REGISTERED PROFESSIONAL ENGINEER OF JURISDICTION.
 I, THE ENGINEER, HEREBY CERTIFY THAT I AM A REGISTERED PROFESSIONAL ENGINEER OF JURISDICTION AND THAT I AM THE DESIGNER OF THIS PLAN AND THAT I AM NOT PROVIDING ENGINEERING SERVICES TO ANY OTHER PARTY.
 THE CONTRACTOR IS RESPONSIBLE FOR ALL AS-BUILT CONDITIONS, METHODS, SAFETY PRECAUTIONS AND REQUIREMENTS, AND OTHER INFORMATION IN THE IMPLEMENTATION OF THIS PLAN AND DESIGN.
 EXISTING UTILITIES SHOWN ON THIS PLAN ARE APPROXIMATE. THE CONTRACTOR SHALL VERIFY THE LOCATION AND DEPTH OF ALL UTILITIES PRIOR TO CONSTRUCTION.
 DESIGN BY: J.M.F.
 DRAWN BY: J.M.F.

DETAIL SHEET - 1
THE CROSSINGS AT DOWLING VILLAGE
 ASSESSORS' PLAT 13, LOT 70
 NORTH SMITHFIELD, RHODE ISLAND
 PREPARED FOR:
CANTON EAST HOLDINGS, LLC
 C/O ANGELO GRILLI
 400 SOUTH COUNTY TRAIL, EXETER, RI 02822
 SHEET 10 OF 14

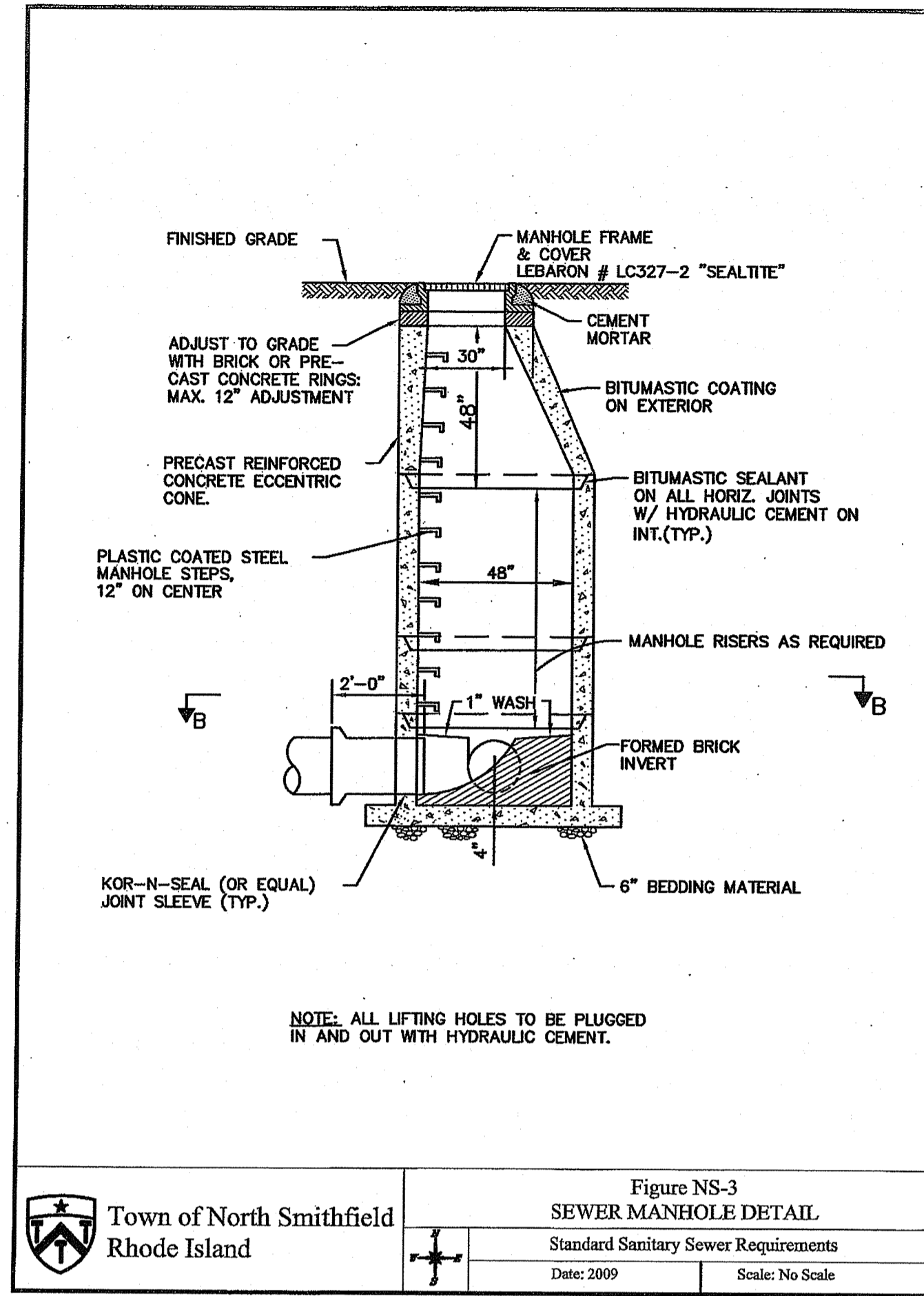


Figure NS-3
SEWER MANHOLE DETAIL
Standard Sanitary Sewer Requirements
Date: 2009 Scale: No Scale

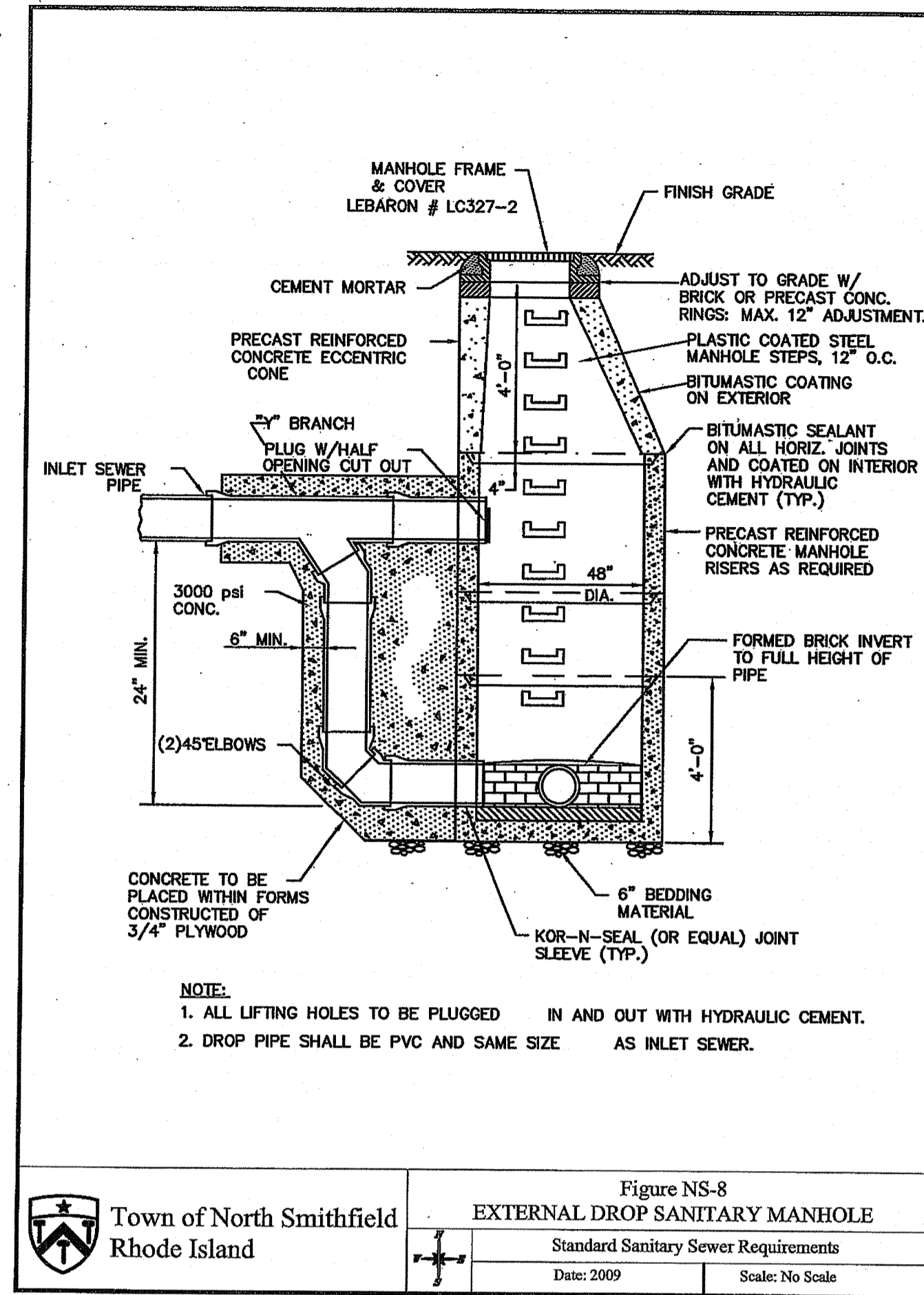


Figure NS-8
EXTERNAL DROP SANITARY MANHOLE
Standard Sanitary Sewer Requirements
Date: 2009 Scale: No Scale

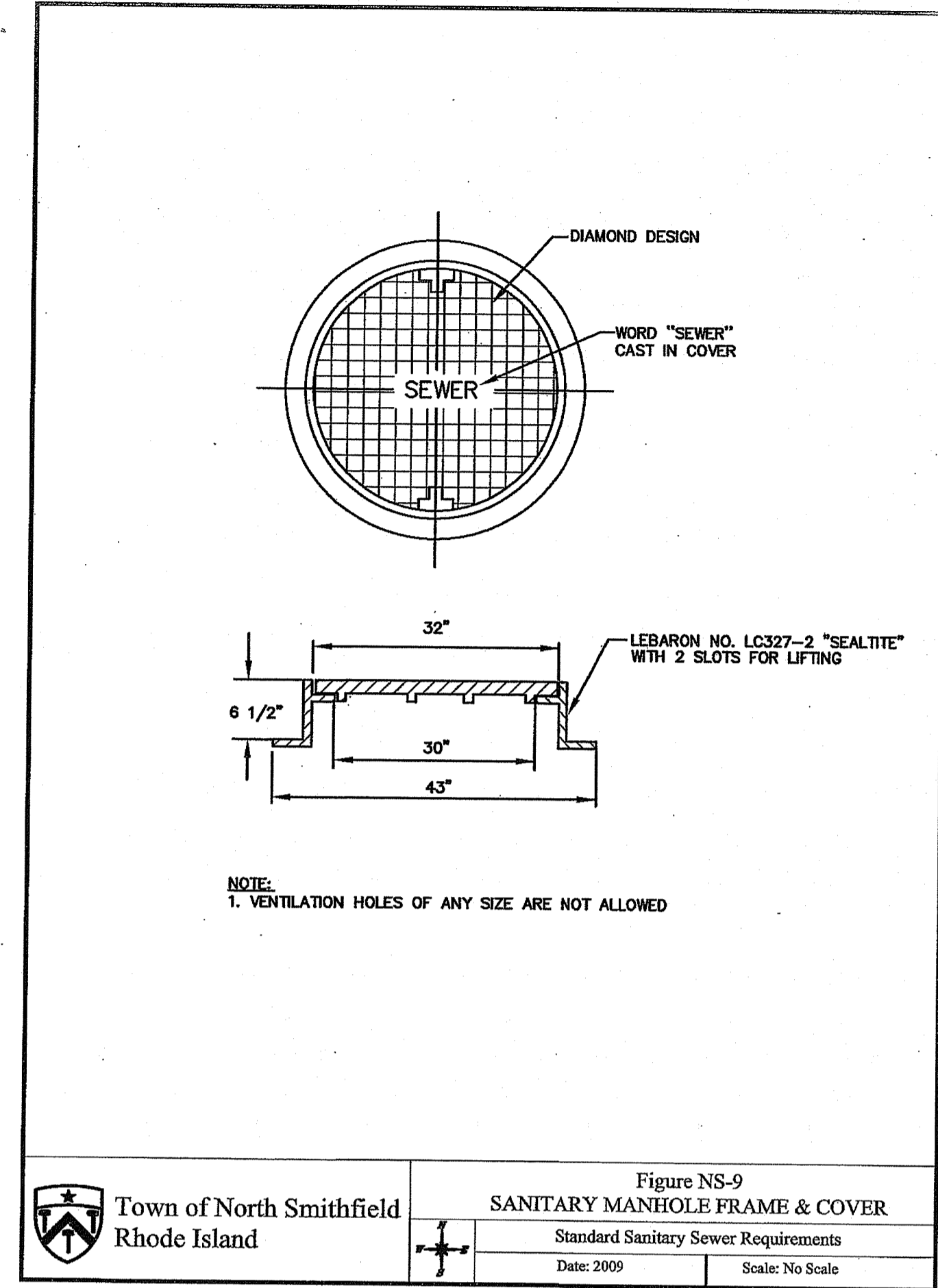


Figure NS-9
SANITARY MANHOLE FRAME & COVER
Standard Sanitary Sewer Requirements
Date: 2009 Scale: No Scale

RI DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM
APPROVED WITH CONDITIONS AS
SPECIFIED IN THE LETTER OF APPROVAL
DATED: DEC 30 2024 FILE #: 24-0232
NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL
APPROVED PLANS MUST BE AT CONSTRUCTION SITE

THE PLAN SET MUST NOT BE USED FOR CONSTRUCTION PURPOSES UNLESS IT IS ACCOMPANIED BY THE ORIGINAL AND STAMPED BY A REGISTERED PROFESSIONAL ENGINEER OF JURISDICTION.
DIPRETE ENGINEERING, INC.
DIPRETE ENGINEERING, INC. WARRANTS ITS PLANS ON A DIPRETE PROFESSIONAL ENGINEER OF JURISDICTION OF DIPRETE ENGINEERING, INC. PROFESSIONAL ENGINEER DOES NOT WARRANT PLANS BY ANY OTHER PARTY. THE USER OF THESE PLANS SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS, APPROVALS, AND REGULATIONS AND FOR OBTAINING ALL NECESSARY INFORMATION AND DATA FOR THE DESIGN AND CONSTRUCTION OF THE PROJECT.
DANA R. NISSET
No. 11876
REGISTERED PROFESSIONAL ENGINEER
CIVIL
1/21/2024

NO.	DATE	DESCRIPTION	BY:
1	02/12/2024	REVISIONS TO COMMENTS	J.M.F.
2	02/12/2024	REVISIONS TO COMMENTS	J.M.F.

DESIGN BY: J.M.F.
DRAWN BY: J.M.F.

DETAIL SHEET - 2
THE CROSSINGS AT DOWLING VILLAGE
ASSESSOR'S PLAT IS LOT 70
NORTH SMITHFIELD, RHODE ISLAND
PREPARED FOR:
CANTON EAST HOLDINGS, LLC
C/O ANGELO GRILLI
400 SOUTH COUNTY TRAIL, EXETER, RI 02822
© 2024 DIPRETE ENGINEERING ASSOCIATES, INC.

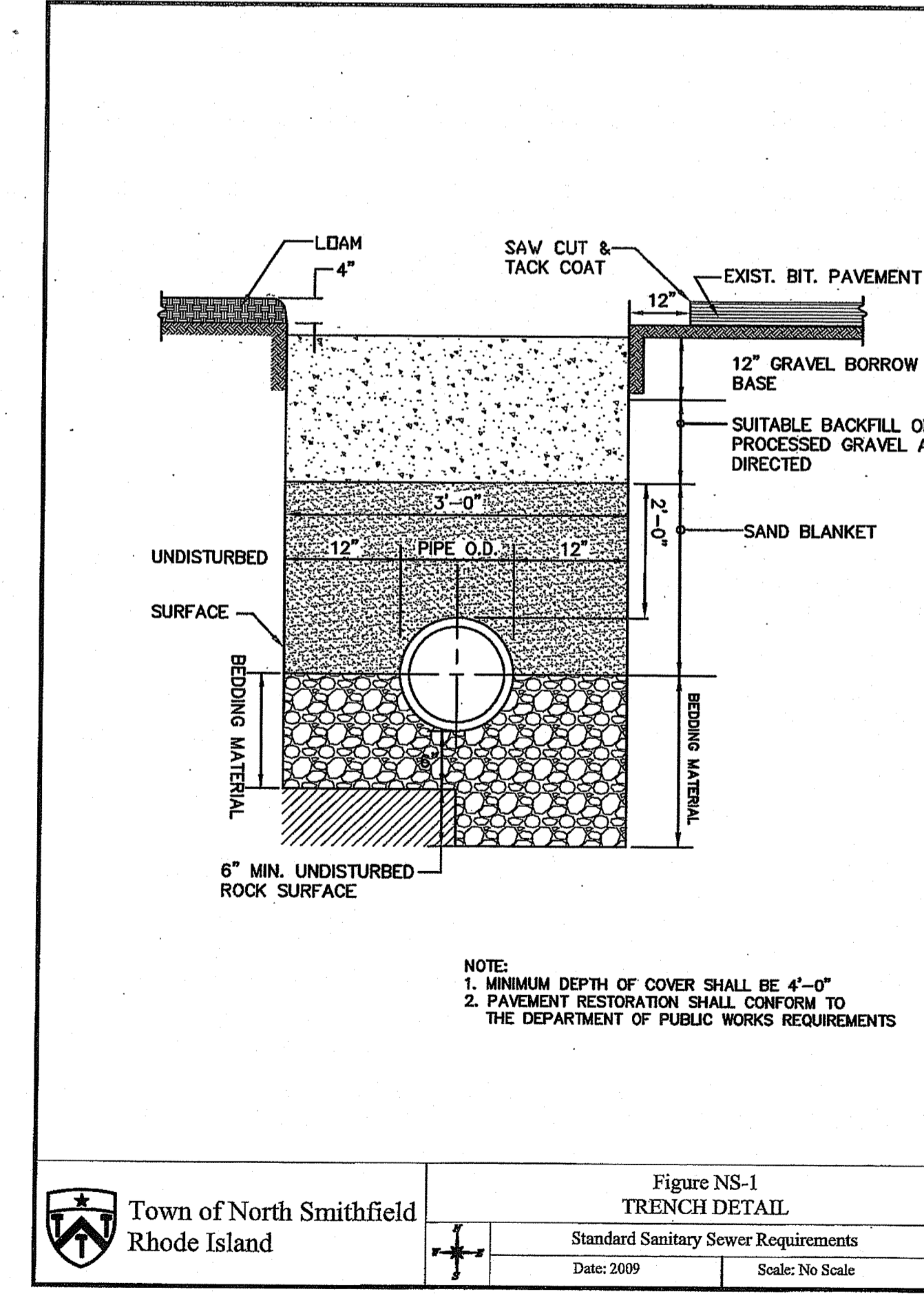
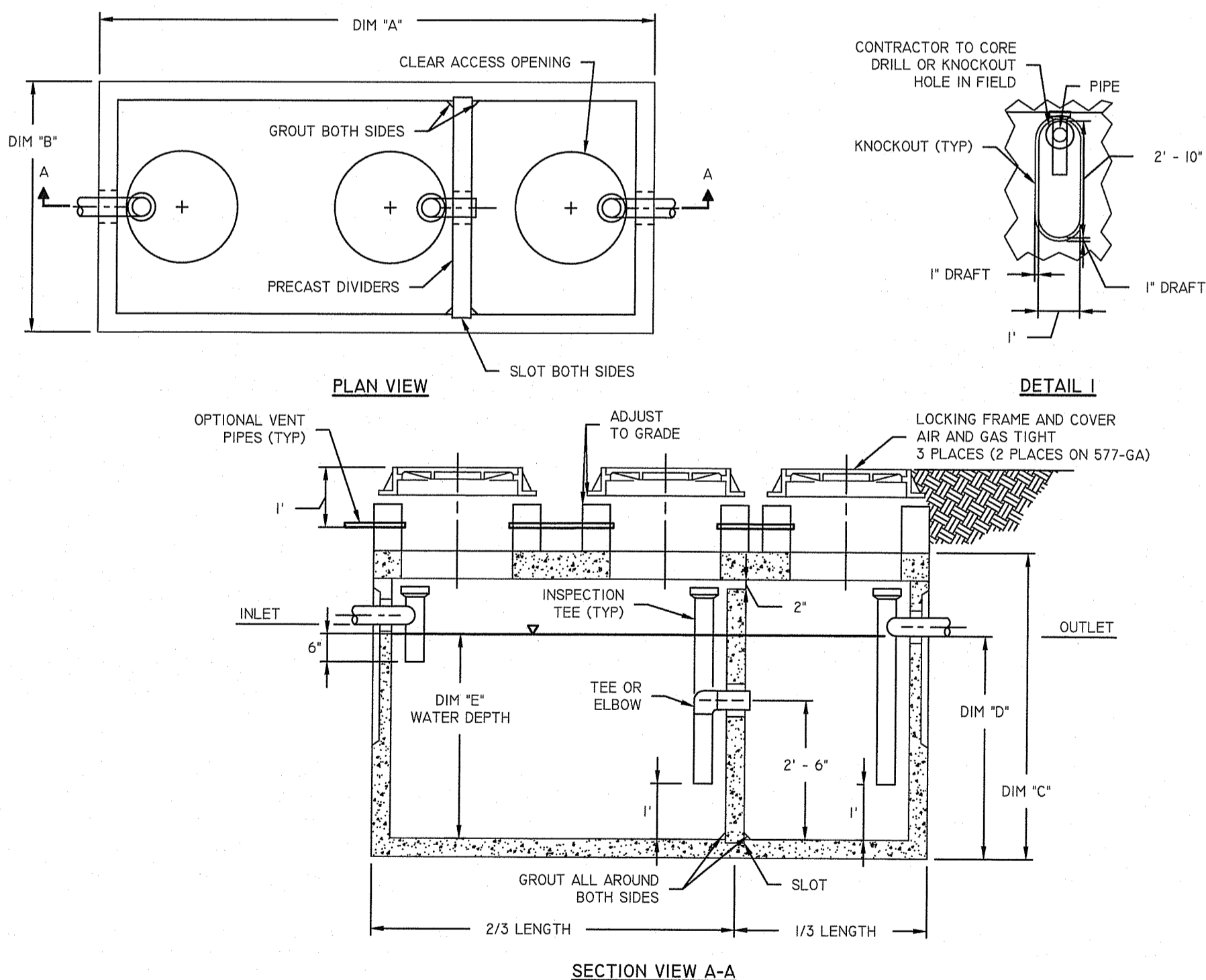


Figure NS-12
THRUST BLOCKS
Standard Sanitary Sewer Requirements
Date: 2009 Scale: No Scale

GALLON CAPACITY	600	800	1000	1500	2000	2500	3000	4000	5000	6000	7000
UV MODEL NO.	577-GA	577-GA	4484-GA	5106-GA	612-GA	612-GA	712-GA	712-GA	816-GA	816-GA	818-GA
DIM 'A'	7'-0"	7'-0"	9'-0"	11'-2"	12'-8"	12'-8"	15'-3"	15'-3"	15'-7"	19'-11"	19'-11"
DIM 'B'	4'-8"	4'-8"	5'-0"	5'-8"	6'-8"	6'-8"	8'-0"	8'-0"	9'-2"	9'-11"	9'-11"
DIM 'C'	7'-0"	7'-0"	7'-2"	7'-2"	8'-0"	8'-0"	8'-7"	8'-7"	10'-0 1/2"	10'-5"	10'-5"
DIM 'D'	3'-7"	4'-8"	4'-2"	4'-3"	4'-7"	5'-6 1/2"	5'-1"	6'-8"	7'-4"	7'-1"	8'-0"
WATER DEPTH DIM 'E'	3'-3"	4'-4"	5'-10"	3'-11"	5'-9 1/2"	4'-9"	4'-8"	6'-3"	6'-1"	5'-8"	6'-7"

NOTE:
1. CONCRETE: 28 DAY COMPRESSIVE STRENGTH F'c = 4500 PSI
2. REBAR: ASTM A-615 GRADE 60
3. MESH: ASTM A-185 GRADE 65
4. DESIGN: ACI-318-02 BUILDING CODE, ASTM C-867 "MINIMUM STRUCTURAL DESIGN LOADING FOR UNDERGROUND PRECAST CONCRETE UTILITY STRUCTURES"
5. LOADS: H-20 TRUCK WHEEL WITH 30% IMPACT PER AASHTO
6. FILL WITH CLEAN WATER PRIOR TO START-UP OF SYSTEM
7. CONTRACTOR TO SUPPLY AND INSTALL ALL PIPING AND SAMPLING TEES
8. GRAY WATER ONLY, BLACK WATER SHALL BE CARRIED BY SEPARATE SIDE SEWER
9. FOR MASSACHUSETTS PROJECTS THE PIPES FROM BUILDING TO GREASE TRAP AND FROM GREASE TRAP TO NEXT DOWNSTREAM STRUCTURE MUST BE CAST IRON AND IN ACCORDANCE WITH 284-CMR.

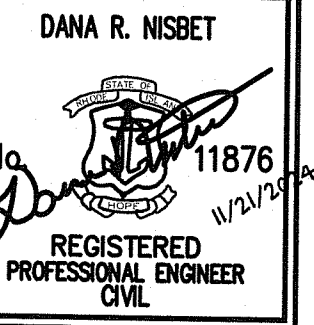
GREASE INTERCEPTOR
NOT TO SCALE

Figure NS-1
TRENCH DETAIL
Standard Sanitary Sewer Requirements
Date: 2009 Scale: No Scale

Figure NS-12
THRUST BLOCKS
Standard Sanitary Sewer Requirements
Date: 2009 Scale: No Scale

Z:\MSHW\PROJECTS\2024\03 EDIE DOWLING HIGHWAY 325\AUTOCAD DRAWINGS\0301-005-PL LANDING PUMPS 1/22/2024

Z:\USMAN\PROJECTS\2024-003 EDDIE DOWLING HIGHWAY 32A\UTCAD DRAWINGS\2306-005-FLANDNG PARTB- 1/22/24

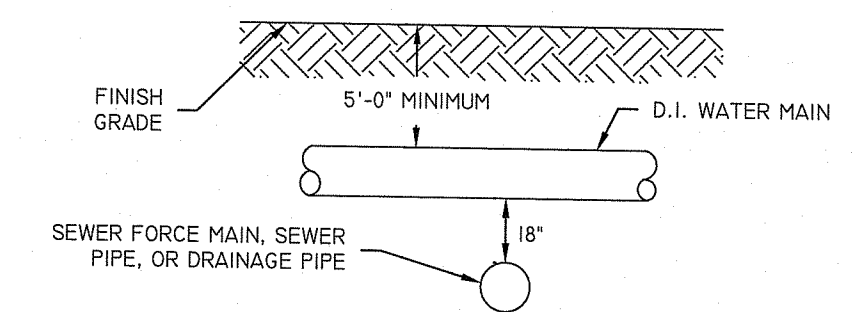


RI DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM
APPROVED WITH CONDITIONS AS
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DATED: DEC 30 2024 FILE #: 24-0232
NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL
APPROVED PLANS MUST BE AT CONSTRUCTION SITE

Dana R. Nisbet

NOTES:

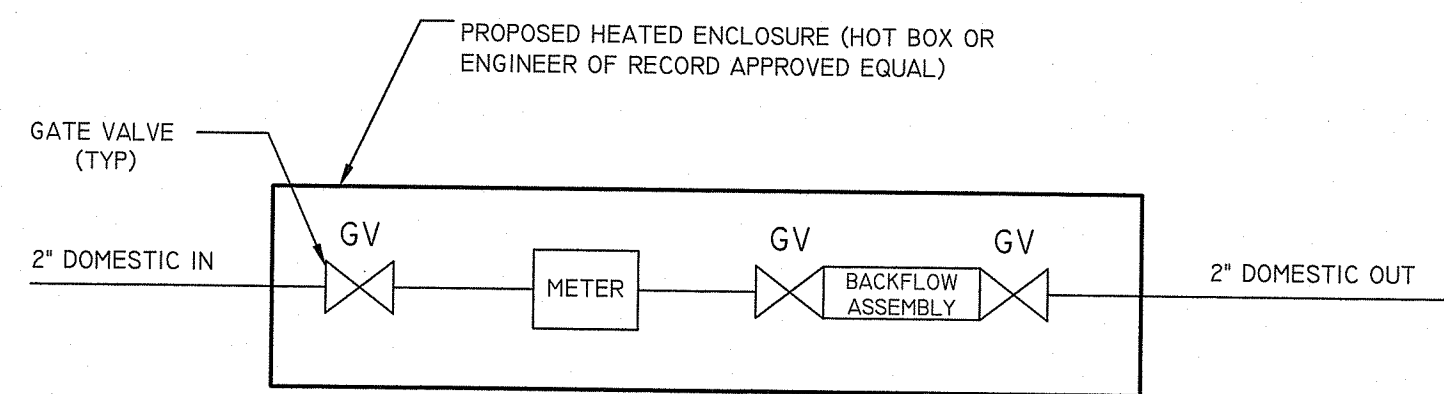
1. THE VERTICAL SEPARATION BETWEEN THE WATER MAIN AND THE PROPOSED UTILITY SHOULD BE A MINIMUM OF 18"
2. THE HORIZONTAL SEPARATION BETWEEN THE WATER MAIN AND THE PROPOSED UTILITY SHALL BE A MINIMUM OF 10"
3. IF 1 OR 2 CAN NOT BE MAINTAINED THE PROPOSED UTILITY IS TO BE ENCASED IN CONCRETE 12" ON EITHER SIDE OF THE CROSSING.



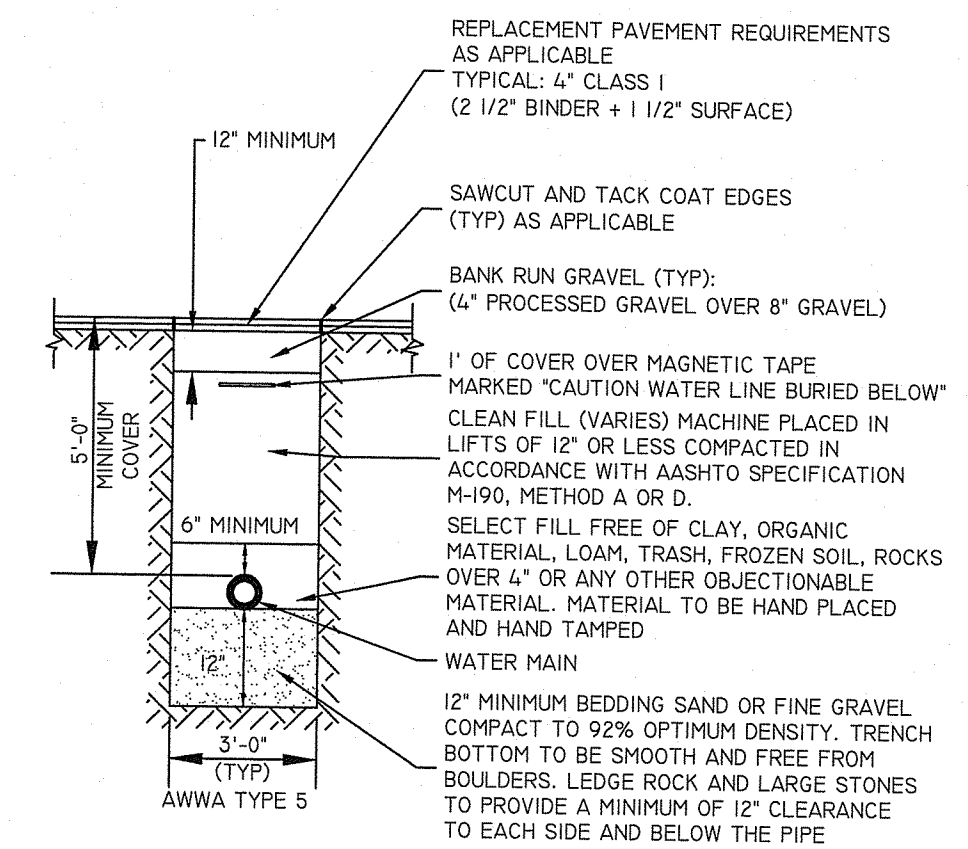
UTILITY SEPARATION
NOT TO SCALE

NOTES:

1. CONTRACTOR TO PROVIDE SHOP DRAWINGS OF WATER METER PIT PRIOR TO WATERMAIN CONSTRUCTION. SHOP DRAWINGS TO BE APPROVED BY WOONSOCKET WATER DIVISION PRIOR TO INSTALLATION.
2. METER MODEL AND SIZE TO BE DETERMINED BY WOONSOCKET WATER DIVISION.
3. FINAL DESIGN SUBJECT TO REVIEW AND APPROVAL BY WOONSOCKET WATER DIVISION.
4. CONTRACTOR TO PROVIDE POWER AND TELEPHONE SERVICE TO HEATED ENCLOSURE.



SCHEMATIC HEATED ENCLOSURE FOR WATER METER & BACKFLOW
NOT TO SCALE



WATER TRENCH DETAIL
NOT TO SCALE

THIS PLAN SET MUST NOT BE USED FOR CONSTRUCTION PURPOSES UNLESS IT IS APPROVED BY THE RI DEPARTMENT OF ENVIRONMENTAL MANAGEMENT AND STAMPED BY A REGISTERED PROFESSIONAL ENGINEER LICENSED IN THE STATE OF RHODE ISLAND.

DIPRETE ENGINEERING ONLY WARRANTS PLANS OR A DIPRETE ENGINEERING DESIGN. DIPRETE ENGINEERING ASSUMES NO RESPONSIBILITY FOR ANY DAMAGE TO PROPERTY OR PERSONS ARISING FROM THE USE OF THESE PLANS BY ANY OTHER PARTY. THE USER SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM ALL APPLICABLE AGENCIES AND AUTHORITIES. THE USER SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM ALL APPLICABLE AGENCIES AND AUTHORITIES. THE USER SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM ALL APPLICABLE AGENCIES AND AUTHORITIES.

NO.	DATE	DESCRIPTION	BY:	BY:
1	11-21-2024	DESIGN RESPONSE TO COMMENTS	J.M.F.	J.M.F.
2	09-17-2024	RIEHS WETLANDS SUBMISSION	J.M.F.	J.M.F.

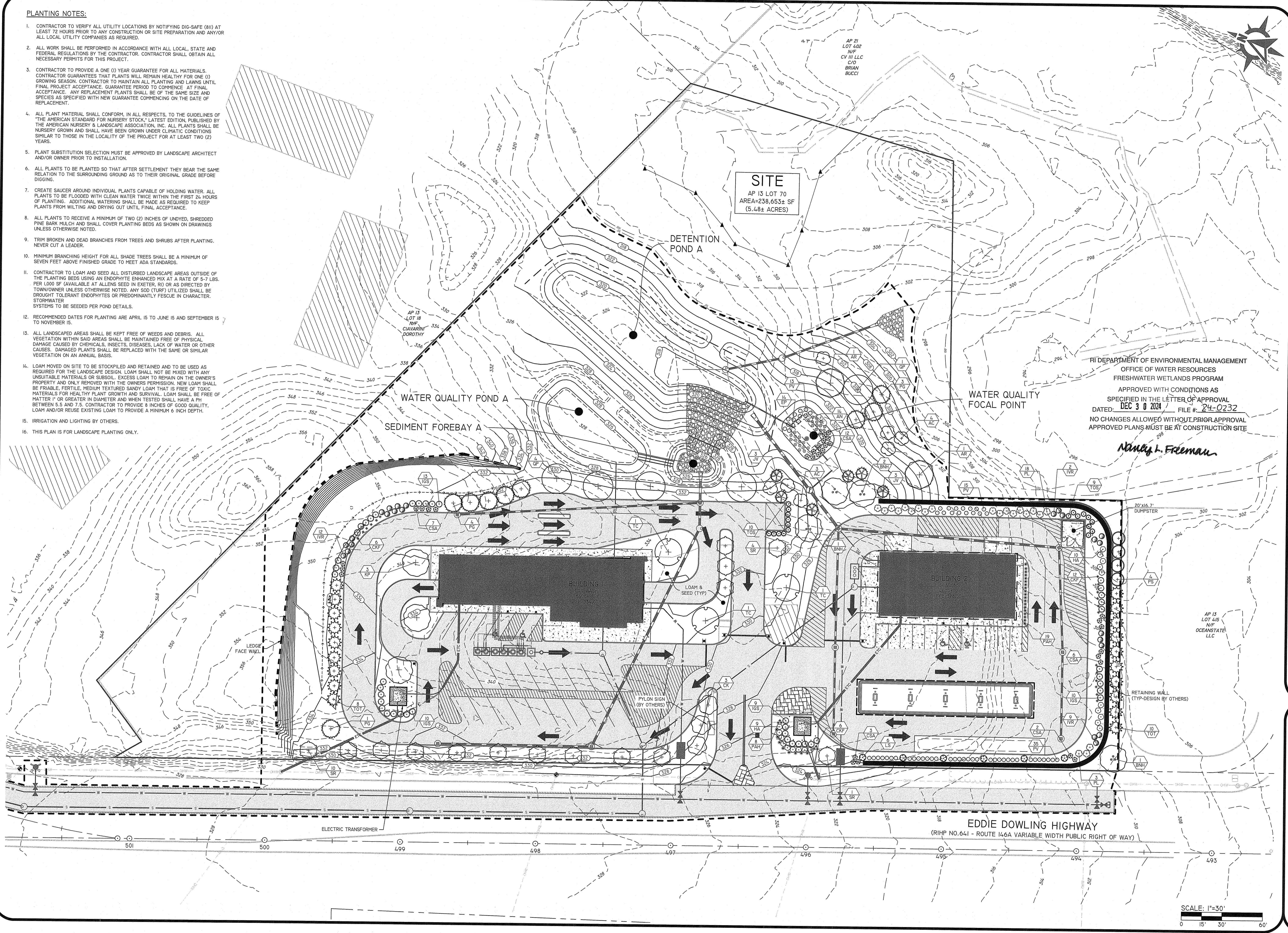
DESIGN BY: J.M.F.
DRAWN BY: J.M.F.

DETAIL SHEET - 3
THE CROSSINGS AT DOWLING VILLAGE
ASSESSOR'S PLAT 13, LOT 70
NORTH SMITHFIELD, RHODE ISLAND

PREPARED FOR:
CANTON EAST HOLDINGS, LLC
C/O ANGELO GRILLI
400 SOUTH COUNTY TRAIL, EXETER, RI 02822

PLANTING NOTES:

- CONTRACTOR TO VERIFY ALL UTILITY LOCATIONS BY NOTIFYING DIG-SAFE (811) AT LEAST 72 HOURS PRIOR TO ANY CONSTRUCTION OR SITE PREPARATION AND ANY/OR ALL LOCAL UTILITY COMPANIES AS REQUIRED.
- ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH ALL LOCAL, STATE AND FEDERAL REGULATIONS BY THE CONTRACTOR. CONTRACTOR SHALL OBTAIN ALL NECESSARY PERMITS FOR THIS PROJECT.
- CONTRACTOR TO PROVIDE A ONE (1) YEAR GUARANTEE FOR ALL MATERIALS. CONTRACTOR GUARANTEES THAT PLANTS WILL REMAIN HEALTHY FOR ONE (1) GROWING SEASON. CONTRACTOR TO MAINTAIN ALL PLANTING AND LAWS UNTIL FINAL PROJECT ACCEPTANCE. GUARANTEE PERIOD TO COMMENCE AT FINAL ACCEPTANCE. ANY REPLACEMENT PLANTS SHALL BE OF THE SAME SIZE AND SPECIES AS SPECIFIED WITH NEW GUARANTEE COMMENCING ON THE DATE OF REPLACEMENT.
- ALL PLANT MATERIAL SHALL CONFORM, IN ALL RESPECTS, TO THE GUIDELINES OF "THE AMERICAN STANDARD FOR NURSERY STOCK," LATEST EDITION, PUBLISHED BY THE AMERICAN NURSERY & LANDSCAPE ASSOCIATION, INC. ALL PLANTS SHALL BE NURSERY GROWN AND SHALL HAVE BEEN GROWN UNDER CLIMATIC CONDITIONS SIMILAR TO THOSE IN THE LOCALITY OF THE PROJECT FOR AT LEAST TWO (2) YEARS.
- PLANT SUBSTITUTION SELECTION MUST BE APPROVED BY LANDSCAPE ARCHITECT AND/OR OWNER PRIOR TO INSTALLATION.
- ALL PLANTS TO BE PLANTED SO THAT AFTER SETTLEMENT THEY BEAR THE SAME RELATION TO THE SURROUNDING GROUND AS TO THEIR ORIGINAL GRADE BEFORE DIGGING.
- CREATE SAUCER AROUND INDIVIDUAL PLANTS CAPABLE OF HOLDING WATER. ALL PLANTS TO BE FLOODED WITH CLEAN WATER TWICE WITHIN THE FIRST 24 HOURS OF PLANTING. ADDITIONAL WATERING SHALL BE MADE AS REQUIRED TO KEEP PLANTS FROM WILTING AND DRYING OUT UNTIL FINAL ACCEPTANCE.
- ALL PLANTS TO RECEIVE A MINIMUM OF TWO (2) INCHES OF UNDEAD, SHREDDED PINE BARK MULCH AND SHALL COVER PLANTING BEDS AS SHOWN ON DRAWINGS UNLESS OTHERWISE NOTED.
- TRIM BROKEN AND DEAD BRANCHES FROM TREES AND SHRUBS AFTER PLANTING. NEVER CUT A LEADER.
- MINIMUM BRANCHING HEIGHT FOR ALL SHADE TREES SHALL BE A MINIMUM OF SEVEN FEET ABOVE FINISHED GRADE TO MEET ADA STANDARDS.
- CONTRACTOR TO LOAM AND SEED ALL DISTURBED LANDSCAPE AREAS OUTSIDE OF THE PLANTING BEDS USING AN ENDOPHYTE ENHANCED MIX AT A RATE OF 5-7 LBS. PER 1,000 SF (AVAILABLE AT ALLENS SEED IN EXETER, RI) OR AS DIRECTED BY TOWN/OWNER UNLESS OTHERWISE NOTED. ANY SO2 (TURF) UTILIZED SHALL BE DROUGHT TOLERANT ENDOPHYTES OR PREDOMINANTLY FESCUE IN CHARACTER. STORMWATER SYSTEMS TO BE SEEDED PER POND DETAILS.
- RECOMMENDED DATES FOR PLANTING ARE APRIL 15 TO JUNE 15 AND SEPTEMBER 15 TO NOVEMBER 15.
- ALL LANDSCAPED AREAS SHALL BE KEPT FREE OF WEEDS AND DEBRIS. ALL VEGETATION WITHIN SAID AREAS SHALL BE MAINTAINED FREE OF PHYSICAL DAMAGE CAUSED BY CHEMICALS, INSECTS, DISEASES, LACK OF WATER OR OTHER CAUSES. DAMAGED PLANTS SHALL BE REPLACED WITH THE SAME OR SIMILAR VEGETATION ON AN ANNUAL BASIS.
- LOAM MOVED ON SITE TO BE STOCKPILED AND RETAINED AND TO BE USED AS REQUIRED FOR THE LANDSCAPE DESIGN. LOAM SHALL NOT BE MIXED WITH ANY UNSUITABLE MATERIALS OR SUBSOIL. EXCESS LOAM TO REMAIN ON THE OWNER'S PROPERTY AND ONLY REMOVED WITH THE OWNER'S PERMISSION. NEW LOAM SHALL BE FRIABLE, FERTILE, MEDIUM TEXTURED SANDY LOAM THAT IS FREE OF TOXIC MATERIALS FOR HEALTHY PLANT GROWTH AND SURVIVAL. LOAM SHALL BE FREE OF MATTER 1" OR GREATER IN DIAMETER AND WHEN TESTED SHALL HAVE A PH BETWEEN 5.5 AND 7.5. CONTRACTOR TO PROVIDE 8 INCHES OF GOOD QUALITY, LOAM AND/OR REUSE EXISTING LOAM TO PROVIDE A MINIMUM 6 INCH DEPTH.
- IRRIGATION AND LIGHTING BY OTHERS.
- THIS PLAN IS FOR LANDSCAPE PLANTING ONLY.

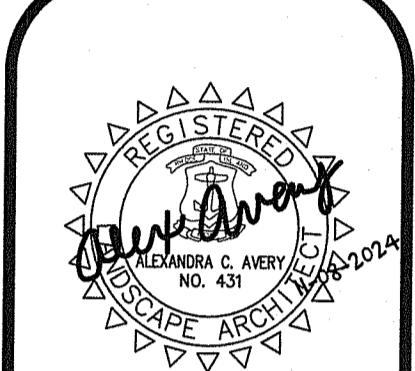


SITE
 AP 13 LOT 70
 AREA=238,653± SF
 (5.48± ACRES)

RI DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
 OFFICE OF WATER RESOURCES
 FRESHWATER WETLANDS PROGRAM
 APPROVED WITH CONDITIONS AS
 SPECIFIED IN THE LETTER OF APPROVAL
 DATED: **DEC 3 0 2024** FILE #: **24-0232**
 NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL
 APPROVED PLANS MUST BE AT CONSTRUCTION SITE

Nancy L. Freeman

Diprete Engineering
 Two Stafford Court Cranston, RI 02920
 tel 401-943-1000 fax 401-664-6006 www.diprete-eng.com
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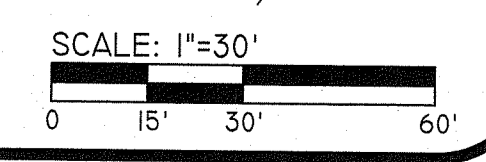
THIS PLAN SET MUST NOT BE USED FOR CONSTRUCTION PURPOSES UNLESS IT IS ACCOMPANIED BY THE PROFESSIONAL ENGINEER'S SEAL AND SIGNATURE. A REGISTERED PROFESSIONAL ENGINEER OF DIPRETE ENGINEERING.

THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM ALL AFFECTED AGENCIES AND AGENCIES OF DIPRETE ENGINEERING. THE CONTRACTOR IS RESPONSIBLE FOR ALL OF THE NECESSARY PRELIMINARY WORK, INCLUDING BUT NOT LIMITED TO, OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM ALL AFFECTED AGENCIES AND AGENCIES OF DIPRETE ENGINEERING. THE CONTRACTOR IS RESPONSIBLE FOR THE IMPLEMENTATION OF THIS PLAN AND FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM ALL AFFECTED AGENCIES AND AGENCIES OF DIPRETE ENGINEERING. THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM ALL AFFECTED AGENCIES AND AGENCIES OF DIPRETE ENGINEERING.

NO.	DATE	DESCRIPTION	BY:
1	11-21-2024	DRAWING SUBMISSION	J.M.F.
2	09-17-2024	REVISIONS TO COMMENTS	J.M.F.
3		REVISIONS TO COMMENTS	J.M.F.
4		REVISIONS TO COMMENTS	J.M.F.
5		REVISIONS TO COMMENTS	J.M.F.
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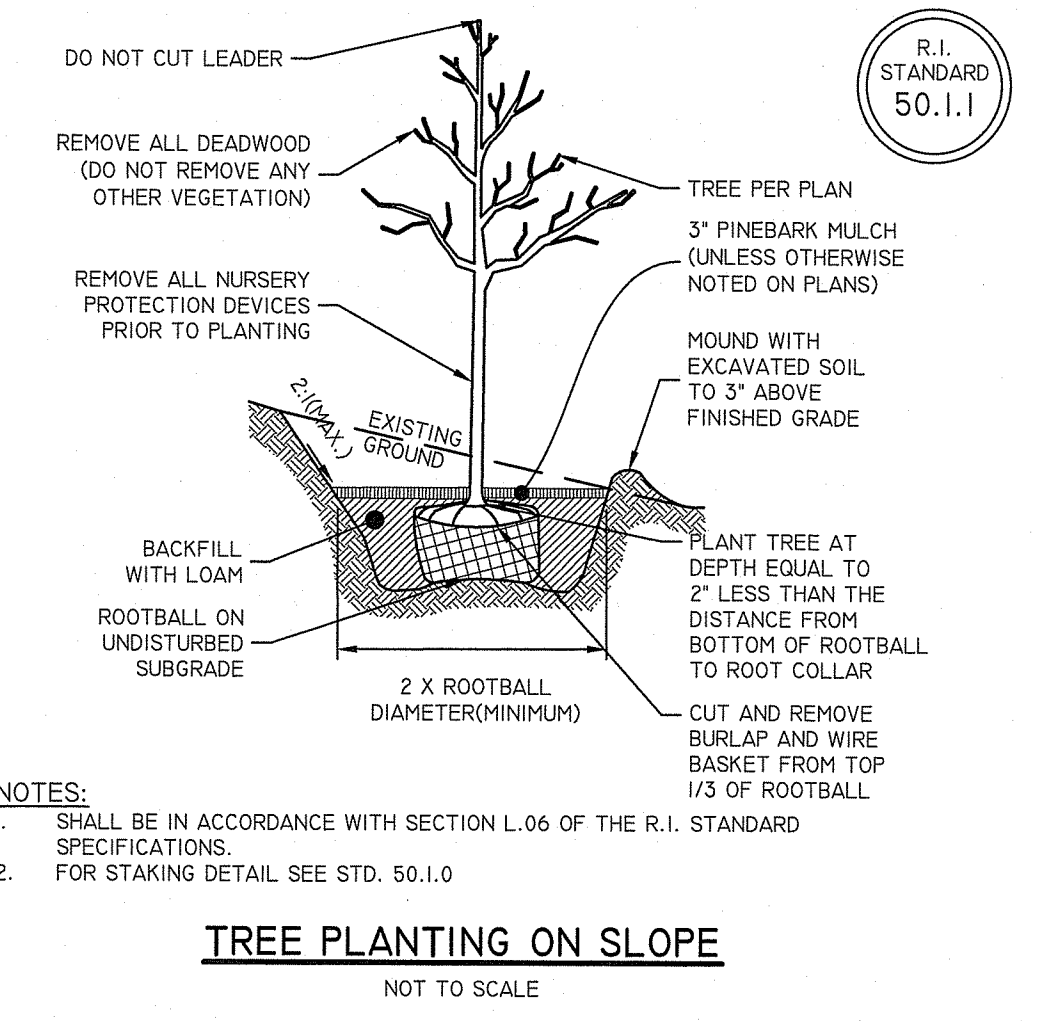
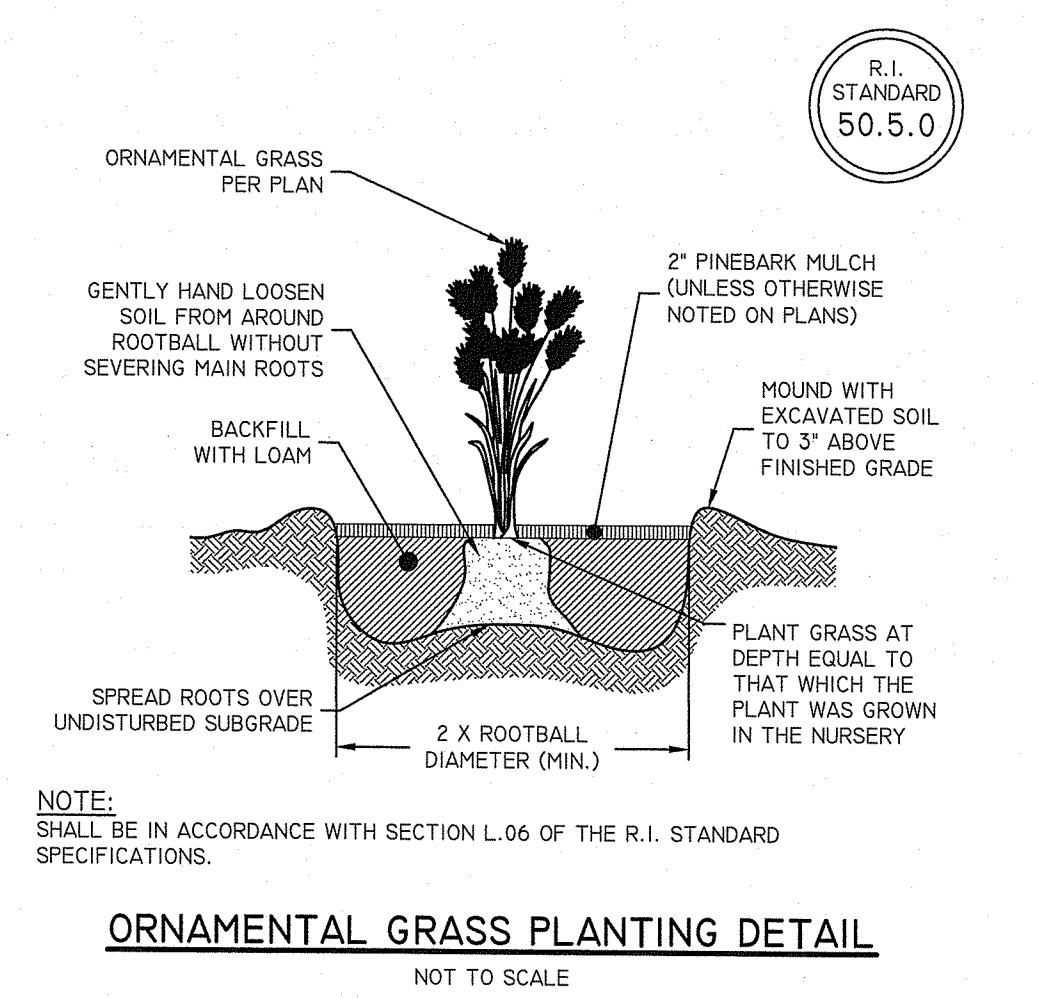
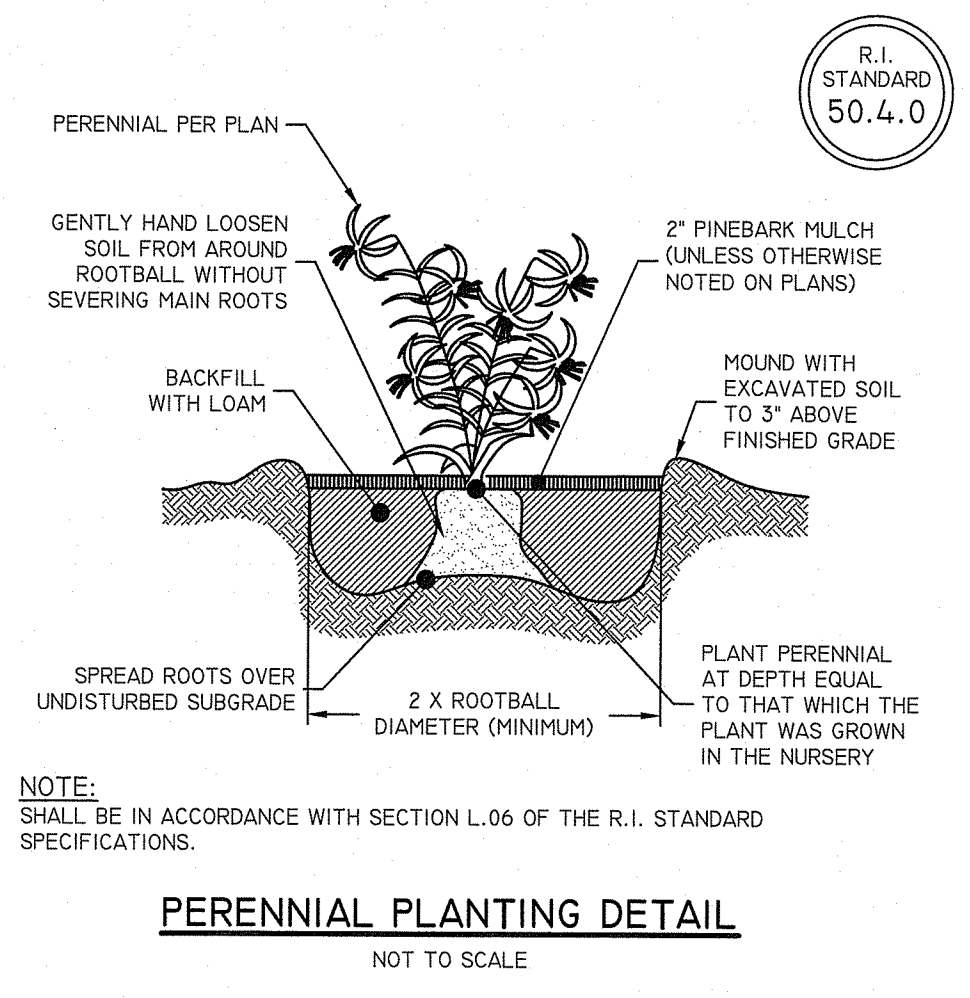
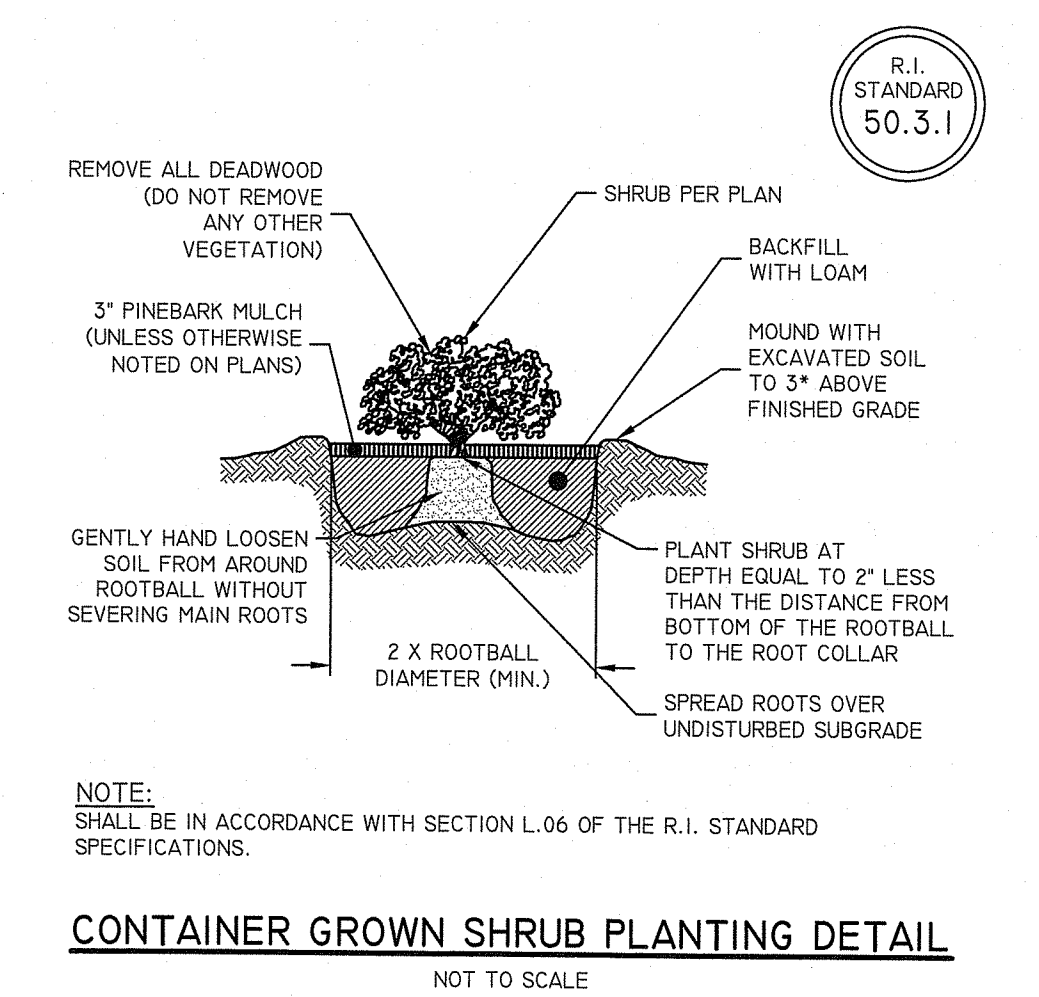
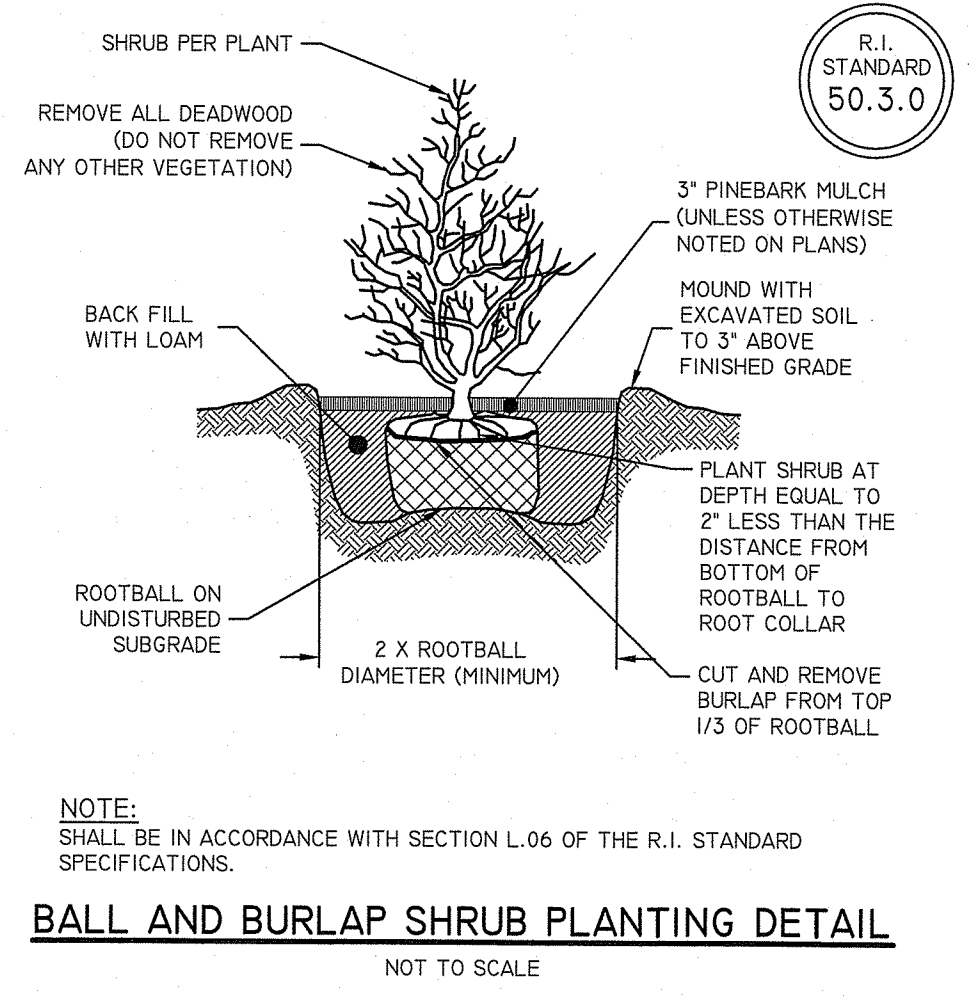
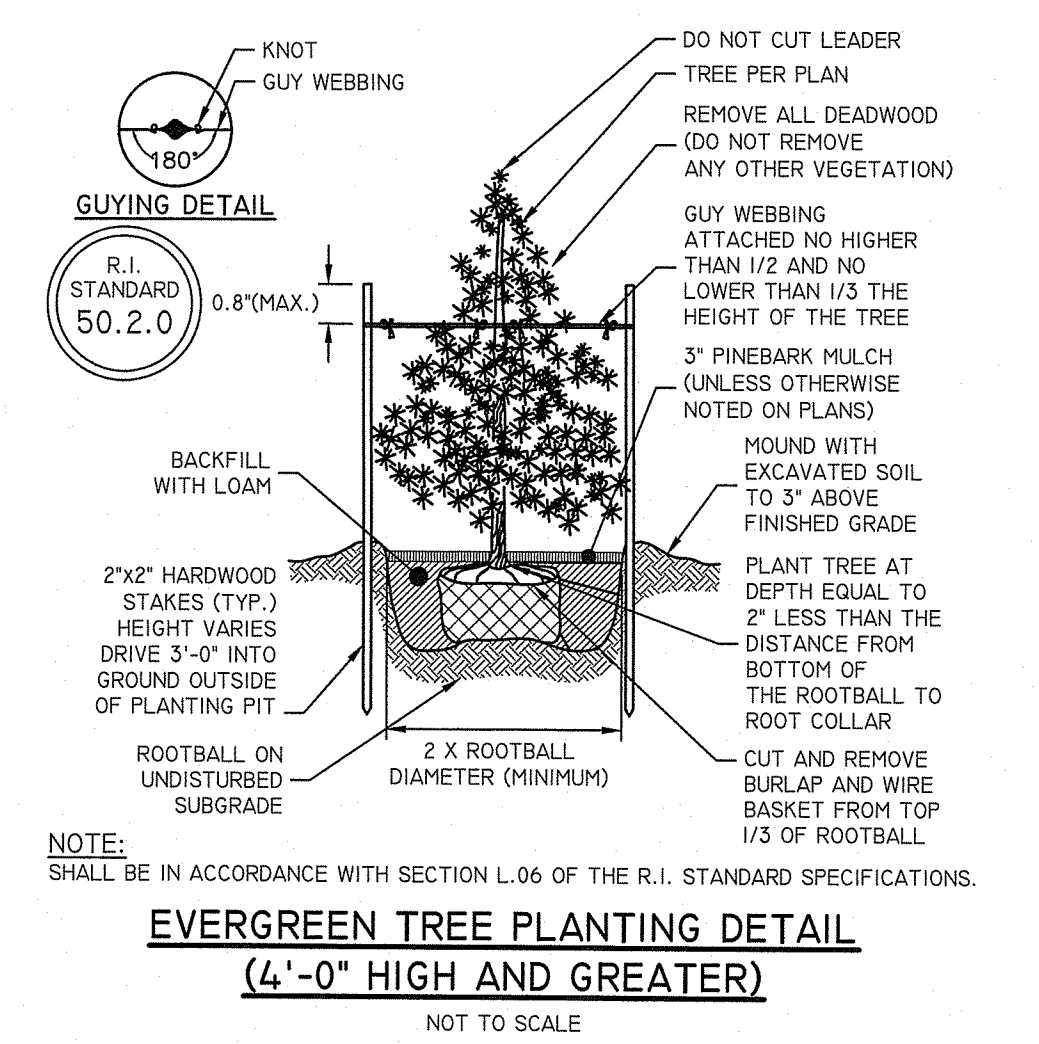
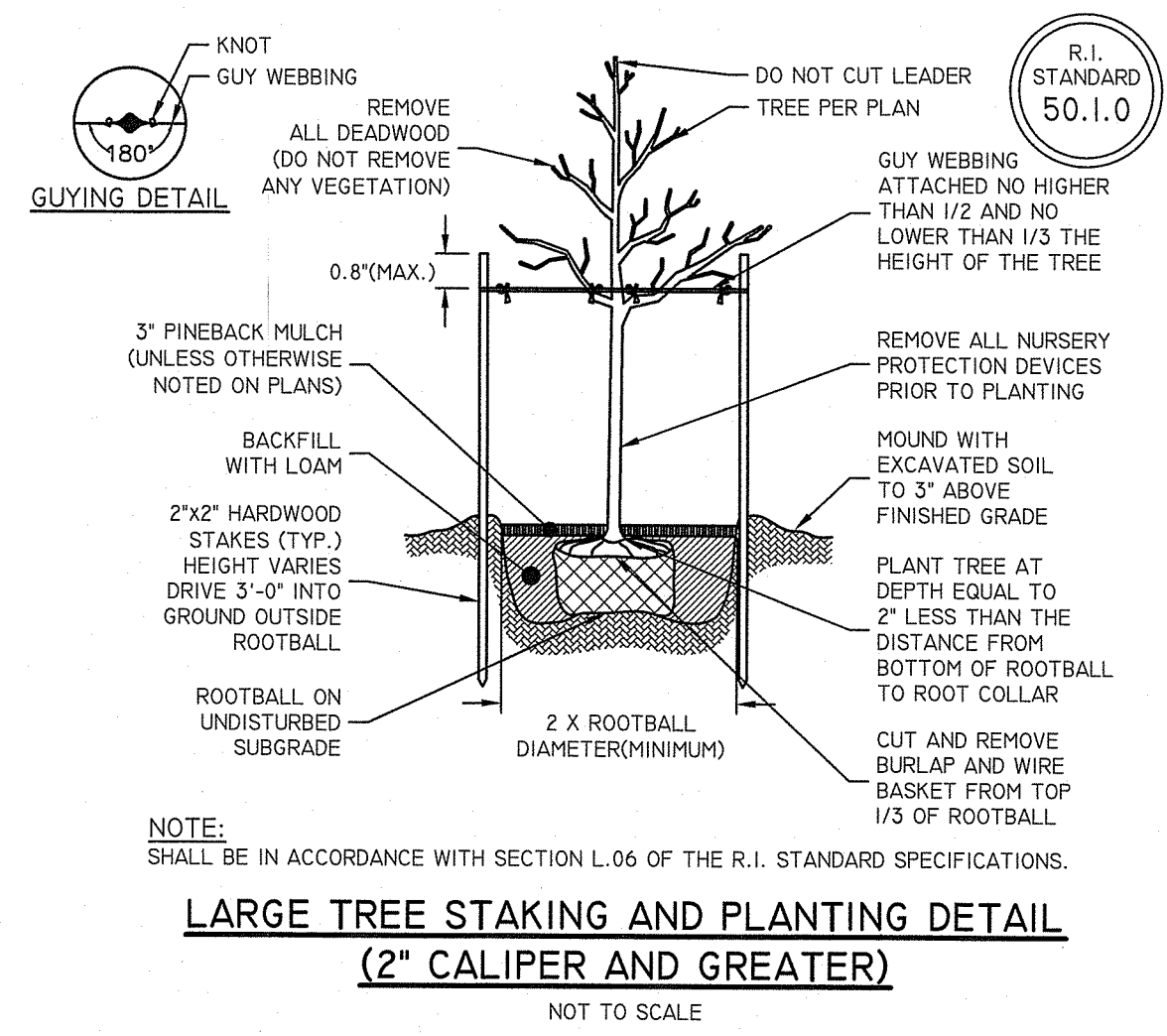
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LANDSCAPE PLAN
THE CROSSINGS AT DOWLING VILLAGE
 NORTH SMITHFIELD, RHODE ISLAND
 PREPARED FOR:
CANTON EAST HOLDINGS, LLC
 C/O ANGELO GRILLI
 400 SOUTH COUNTY TRAIL, EXETER, RI 02822
 DE 308 NO. 2830-003 COPYRIGHT 2024 BY DIPRETE ENGINEERING ASSOCIATES, INC.



PLANT SCHEDULE

SYMBOL	CODE	QTY	BOTANICAL NAME	COMMON NAME	CONT
TREES					
	AR	2	ACER RUBRUM 'OCTOBER GLORY' TM	OCTOBER GLORY MAPLE	3" CAL B&B
	AC	7	AMELANCHIER CANADENSIS	SHADBLow SERVICEBERRY MULTITRUNK	7/8" CLUMP B&B
	BNH	4	BETULA NIGRA 'HERITAGE'	HERITAGE RIVER BIRCH	3" CAL B&B
	CK	3	CORNUS KOUSA	KOUSA DOGWOOD	3" CAL B&B
	KP	3	KOELREUTERIA PANICULATA	GOLDEN RAIN TREE	3" CAL B&B
	LS	6	LIQUIDAMBAR STYRACIFLUA 'SLENDER SILHOUETTE'	SLENDER SILHOUETTE SWEET GUM	3" CAL B&B
	QP	5	QUERCUS PALUSTRIS	PIN OAK	3" CAL B&B
	SR	15	SYRINGA RETICULATA	JAPANESE TREE LILAC	3" CAL B&B
	TC	3	TILIA CORDATA	LITTLELEAF LINDEN	3" CAL B&B
EVERGREEN TREES					
	JV	6	JUNIPERUS VIRGINIANA	EASTERN RED CEDAR	6" HT
	PG	8	PICEA GLAUCA	WHITE SPRUCE	6" HT
	PS	4	PINUS STROBUS	WHITE PINE	6" HT
	TOS	19	THUJA OCCIDENTALIS 'SMARAGD'	EMERALD GREEN ARBORVITAE	6" HT
	TOT	19	THUJA OCCIDENTALIS 'TECHNY'	TECHNY ARBORVITAE	6" HT
SYMBOL	CODE	QTY	BOTANICAL NAME	COMMON NAME	SIZE
SHRUBS					
	CSA	30	CORNUS SERICEA 'ARTIC FIRE'	ARTIC FIRE RED TWIG DOGWOOD	5 GAL
	HA	19	HYDRANGEA ARBORESCENS 'INCREDIBALL'	INCREDIBALL WHITE HYDRANGEA	5 GAL
	IGS	42	ILEX GLABRA 'SHAMROCK'	INKBERRY	18" HT/SPREAD MIN.
	IVR	19	ILEX VERTICILLATA 'RED SPRITE'	RED SPRITE WINTERBERRY	30" HT MIN
	PL	21	PRUNUS LAUROCERASUS 'OTTO LUYKEN'	OTTO LUYKEN ENGLISH LAUREL	5 GAL
GRASSES					
	CKF	24	CALAMAGROSTIS X ACUTIFLORA 'KARL FOERSTER'	FEATHER REED GRASS	2 GAL
	PV	63	PANICUM VIRGATUM 'SHENANDOAH'	SHENANDOAH SWITCH GRASS	2 GAL
	PAH	27	PENNISETUM ALOPECUROIDES 'HAMELN'	HAMELN DWARF FOUNTAIN GRASS	2 GAL
PERENNIALS					
	AN	14	ASTER NOVAE-ANGLIAE	NEW ENGLAND ASTER	1 GAL
	EP	14	ECHINACEA PURPUREA	CONEFLOWER	1 GAL



RI DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM
APPROVED WITH CONDITIONS AS SPECIFIED IN THE LETTER OF APPROVAL
DATED: **DEC 3 0 2024** FILE #: **24-0232**
NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL
APPROVED PLANS MUST BE AT CONSTRUCTION SITE

Nancy L. Freeman



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 MEASUREMENTS, METHODS, SAFETY REGULATIONS AND REQUIREMENTS, AND OSHA COMPLIANCE IN THE IMPLEMENTATION OF THIS PLAN AND DESIGN. EXISTING UTILITIES SHOWN ON THIS PLAN ARE APPROXIMATE AND SHOULD BE VERIFIED BY THE CONTRACTOR PRIOR TO CONSTRUCTION. DAMAGES INCURRED DUE TO LOCATIONS OF EXISTING UTILITIES ARE NOT THE RESPONSIBILITY OF DIPRETE ENGINEERING.

DESIGN BY: J.M.F.
DRAWN BY: J.M.F.

LANDSCAPE NOTES & DETAILS
THE CROSSINGS AT DOWLING VILLAGE
ASSESSOR'S PLAT IS LOT 70
NORTH SMITHFIELD, RHODE ISLAND
PREPARED FOR:
CANTON EAST HOLDINGS, LLC
C/O ANGELO GRILLI
400 SOUTH COUNTY TRAIL, EXETER, RI 02822