BREWED AWAKENINGS

LOCATED ON 1234 OAKLAWN AVE CRANSTON, RHODE ISLAND

ASSESSOR'S PLAT 15-1 LOT 1015

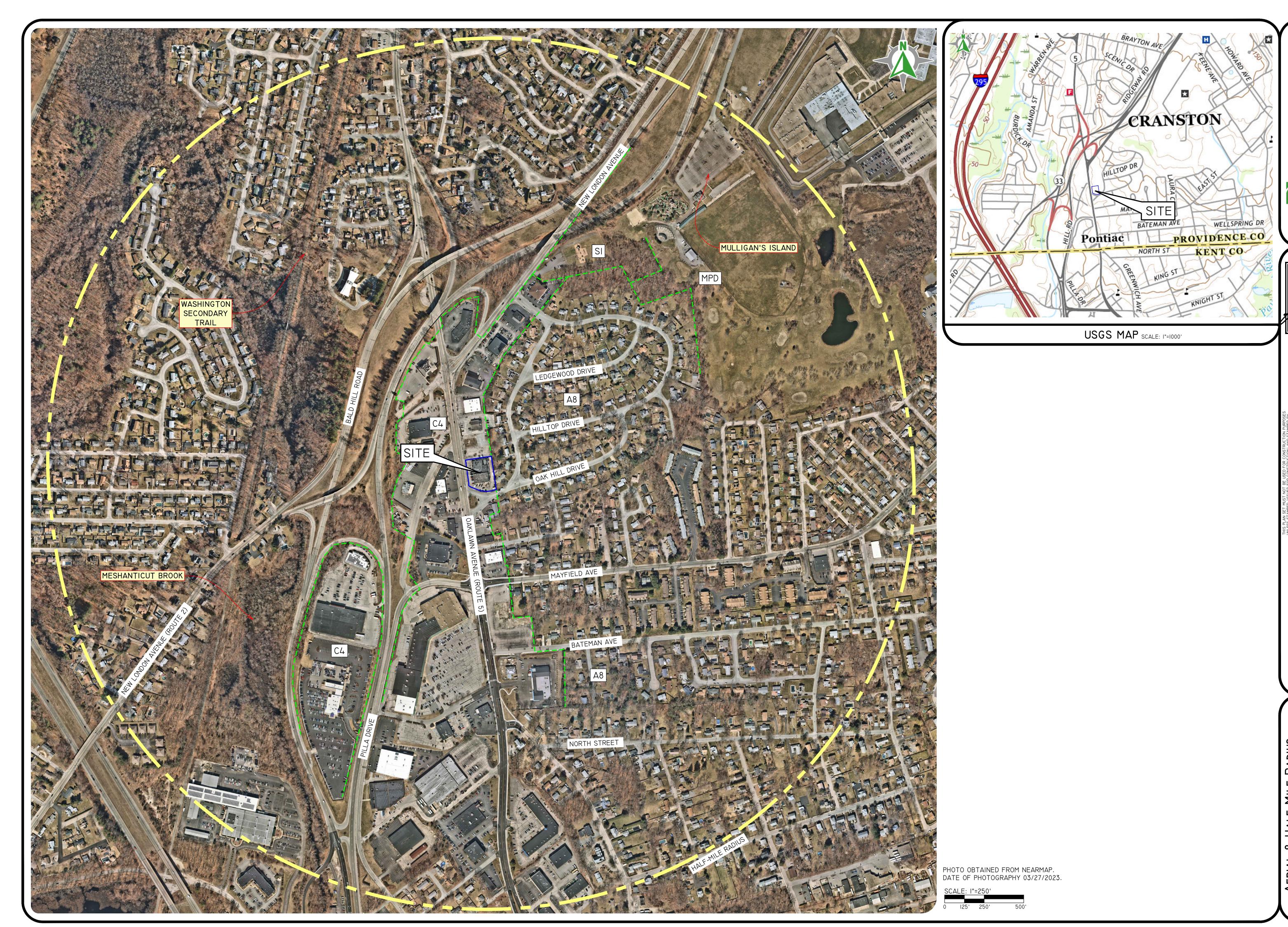


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THE SOIL EROSION AND SEDIMENT CONTROL PLAN (SESC) AND STORMWATER OPERATION AND MAINTENANCE PLAN (0&M) ARE REQUIRED DOCUMENTS WITH THIS PLAN SET AND MUST BE MAINTAINED BY THE CONTRACTOR AND OWNER ON SITE.

HIGHWAY. ALL WORK WITHIN THE STATE RIGHT OF WAY MUST CONFORM TO THE RI STANDARD SPECIFICATIONS, DETAILS, AND ADDENDUMS.



2. THE SITE IS APPROXIMATELY 0.771 ACRES AND IS ZONED C4.

CHAYCHEN LLC 419 ALBION ROAD UNIT 19 LINCOLN, RI 02865-4277

4. THIS SITE IS LOCATED IN FEMA FLOOD ZONE X (UNSHADED). REFERENCE FEMA FLOOD INSURANCE RATE MAP 44007C0426H, MAP REVISED OCTOBER 2, 2015. (FLOOD PLAIN DESCRIPTIONS SHOWN

• ZONE X (UNSHADED) - THIS SITE IS LOCATED IN FEMA FLOOD ZONE X, WHICH ARE AREAS WHERE THERE IS MINIMAL FLOODING.

THE BOUNDARY LINES AS SHOWN ON THE ENGINEERING PLAN SET DEPICTS THE RESULTS OF A CLASS I BOUNDARY RETRACEMENT SURVEY AS PERFORMED BY DIPRETE ENGINEERING. 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. CONTOUR DATA SHOWN ON THIS PLAN CONFORMS TO A T-2 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 IN THE FIELD.

ALL WORK PERFORMED HEREIN IS TO BE GOVERNED BY CURRENT EDITIONS OF THE RHODE ISLAND STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, CITY OF CRANSTON STANDARD SPECIFICATIONS AND DETAILS AND SPECIFICATIONS INCLUDED AS PART OF THE DRAWINGS. IN AREAS OF CONFLICT BETWEEN THE DIFFERENT SPECIFICATIONS, THE DESIGN PLANS AND PROJECT SPECIFICATIONS WILL TAKE PRECEDENCE OVER THE GENERAL SPECIFICATIONS AND THE CEOR WILL INTERPRET THE CONSTRUCTION REQUIREMENT. THE CONTRACTOR IS ADVISED TO SUBMIT A REQUEST FOR INFORMATION (RFI) FOR ANY AREAS OF CONFLICT BEFORE COMMITTING TO CONSTRUCTION.

8. THE SITE IS NOT WITHIN A:

GROUNDWATER PROTECTION AREA (RIDEM) GROUNDWATER PROTECTION OVERLAY DISTRICT (TOWN)

THE SITE IS WITHIN A:

NATURAL HERITAGE AREA (RIDEM) [SPECIES OF STATE CONCERN - WOOD TURTLE]

9. THE SITE IS LOCATED WITHIN THE FRESHWATER WETLAND BUFFER URBAN REGION PER THE FRESHWATER WETLANDS BLIFFER REGIONS MAPS (250-RICR-150-15-3.24)

THE FOLLOWING DOCUMENTS ARE CONSIDERED PART OF THE PROJECT PLANS AND THE CONTRACTOR/OWNER MUST MAINTAIN THESE DOCUMENTS AS PART OF A FULL PLAN SET:

 STORMWATER OPERATION AND MAINTENANCE PLAN (0&M). THE 0&M CONTAINS: •• LONG TERM MAINTENANCE

•• LONG TERM POLLUTION PREVENTION THIS PLAN SET REFERENCES RIDOT STANDARD DETAILS (DESIGNATED AS RIDOT STD X.X.X). RIDOT STANDARD DETAILS ARE AVAILABLE FROM RIDOT AND ONLINE AT-

HTTP://WWW.DOT.RI.GOV/BUSINESS/CONTRACTORSANDCONSULTANTS.PHP. II. THE SITE IS TO BE SERVICED BY PUBLIC WATER AND PUBLIC SEWER

12. THE DRAINAGE SYSTEM IS DESIGNED TO MEET THE STANDARDS SET BY THE RHODE ISLAND STORMWATER DESIGN AND INSTALLATION STANDARDS MANUAL AS MOST RECENTLY AMENDED THROUGH THE USE OF CATCH BASINS, PROPRIETARY SEPARATOR, AND UNDERGROUND INFILTRATION CHAMBERS. THE STORMWATER MANAGEMENT SYSTEM MEETS THE RIDEM BEST MANAGEMENT

13. THE SITE IS PROPOSED TO BE BUILT IN (I) PHASE.

14. TEST PITS AND SOIL EVALUATIONS WERE COMPLETED BY DIPRETE ENGINEERING ON 2/15/24. 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 CEOR FOR CONSIDERATION, WHICH MUST BE ACCOMPANIED BY A COMPLETED "SUBSTITUTION REQUEST" CSI FORM 13.1A (APRIL 2022 VERSION MODIFIED BY DIPRETE ENGINEERING 2023) - FORM AVAILABLE FROM DIPRETE ENGINEERING SUBMISSION PACKAGE MUST INCLUDE 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 CEOR.

16. 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 CEOR 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)

SOIL NAME DESCRIPTION

UR URBAN LAND

LAYOUT AND MATERIALS:

OF PAVEMENT MARKINGS, UNLESS OTHERWISE NOTED.

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, REGARDLESS OF ITEMS SHOWN (OR NOT SHOWN) ON THIS PLAN SET. THIS INCLUDES (BUT MAY NOT BE LIMITED TO) SIGN TYPE, NUMBER OF SIGNS, POLE/ MOUNTING TYPE, PAVEMENT MARKING LOCATIONS/ TYPE/ WIDTH, MATERIALS INSTALLATION METHODS, AND ANY ADDITIONAL SIGNS AND/OR MARKINGS THAT MAY BE 7. REQUIRED. THE CONTRACTOR MUST NOTIFY THE CEOR OF ANY MODIFICATIONS OR DISCREPANCIES

PRIOR TO ORDERING OR INSTALLING SIGNAGE/ PAVEMENT MARKINGS. SYMBOLS AND LEGENDS OF PROJECT FEATURES ARE GRAPHIC REPRESENTATIONS AND ARE NOT NECESSARILY SCALED TO THEIR ACTUAL DIMENSIONS OR LOCATIONS ON THE DRAWINGS. THE CONTRACTOR MUST REFER TO THE DETAIL SHEET DIMENSIONS. MANUFACTURERS' LITERATURE. SHOP DRAWINGS AND FIELD MEASUREMENTS OF SUPPLIED PRODUCTS FOR LAYOUT OF THE PROJECT

SEE ARCHITECTURAL DRAWINGS FOR EXACT BUILDING DIMENSIONS AND DETAILS PERTAINING TO THE BUILDING, INCLUDING SIDEWALKS, RAMPS, BUILDING ENTRANCES, STAIRWAYS, UTILITY PENETRATIONS, CONCRETE DOOR PADS, COMPACTOR PAD, LOADING DOCKS, BOLLARDS, ETC.

CONTROL POINTS, PROPOSED BOUNDS, AND ANY EXISTING PROPERTY LINE MONUMENTATION DISTURBED DURING CONSTRUCTION MUST BE SET OR RESET BY A PROFESSIONAL LICENSED

CONTRACTOR MUST NOT RELY SOLELY ON ELECTRONIC VERSIONS OF PLANS, SPECIFICATIONS AND DATA FILES THAT ARE OBTAINED FROM THE CEOR. CONTRACTOR MUST VERIFY I OCATION OF PROJECT FEATURES IN ACCORDANCE WITH THE STAMPED PAPER COPIES OF THE PLANS AND SPECIFICATIONS THAT ARE SUPPLIED AS PART OF THE CONTRACT DOCUMENTS.

INFRARED TREATMENT OF PAVEMENT IS REQUIRED AT ALL CURB CUTS, AT ANY DISTURBED PAVEMENT ON ROADWAYS, AND WHERE ANY NEW PAVEMENT MEETS EXISTING PAVEMENT.

0. ALL EXISTING PAVEMENT MARKING REMOVED AS INCIDENTAL DURING CONSTRUCTION MUST BE

REPLACED IN-KIND FOLLOWING COMPLETION OF CONSTRUCTION UNLESS OTHERWISE NOTED. 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.

PROPOSED UNDERGROUND DRAINAGE SYSTEM MEETS ALL THE FOLLOWING UIC MINIMUM SETBACK REQUIREMENTS:

. 400 FT FROM ALL PUBLIC WATER WELLS (SAND AND GRAVEL)

200 FT FROM ALL PUBLIC WATER WELLS (BEDROCK) . 200 FT FROM ALL SURFACE DRINKING WATER SUPPLY IMPOUNDMENTS

4. 100 FT FROM ALL PRIVATE DRINKING WATER WELLS

5. IOO FT FROM ALL OTHER SURFACE WATERS 25 FT FROM ALL OWTS AND OTHER GROUNDWATER DISCHARGE SYSTEMS

25 FT FROM ALL BUILDING FOUNDATIONS IF SYSTEM IS ABOVE SLAB ELEVATION. 10 FEET FROM ALL BUILDINGS IF SYSTEM IS BELOW SLAB ELEVATION

3. IO FT FROM ALL PROPERTY LINES

9. IO FT FROM ALL BUILDING FOOTINGS

SOIL EROSION AND SEDIMENT CONTROL NOTES:

I. THE CONTRACTOR IS RESPONSIBLE FOR ALL SOIL EROSION AND SEDIMENT CONTROL ON SITE WHICH I. CONSTRUCTION TO COMMENCE FALL 2024 OR UPON RECEIPT OF ALL NECESSARY APPROVALS. MUST BE CONSTRUCTED AND MAINTAINED IN ACCORDANCE WITH THE APPLICABLE REGULATIONS. AND AUTHORITY HAVING JURISDICTION. THE CONTRACTOR MUST NOTIFY THE CEOR, THE DIRECTOR OF PUBLIC WORKS. THE TOWN ENGINEER, AND RHODE ISLAND DEPARTMENT OF ENVIRONMENTAL MANAGEMENT AT LEAST 48 HOURS PRIOR TO THE START OF CONSTRUCTION.

2. ALL EROSION CONTROL 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 PLAN(S). NOTE THE SOIL EROSION AND SEDIMENT CONTROL SHOWN ON THESE PLANS ARE THE MINIMUM QUANTITY/TYPE OF EROSION CONTROL DEVICES AND MATERIALS DEEMED REQUIRED. BY THE CEOR TO MEET THE OBJECTIVES OF THE RISESC HANDBOOK, BUT IS CONSIDERED A GUIDE ONLY. ADDITIONAL MEASURES/ALTERNATE CONFIGURATIONS MAY BE REQUIRED IN ORDER TO MEET THE RISESC HANDBOOK BASED ON FACTORS INCLUDING (BUT NOT LIMITED TO) SITE PARAMETERS. WEATHER, INSPECTIONS AND UNIQUE FEATURES. THE SESC WILL CONTINUE TO EVOLVE THROUGHOUT CONSTRUCTION/PHASES. PURSUANT TO NOTE I ABOVE, SESC REMAINS THE RESPONSIBILITY OF THE CONTRACTOR UNTIL THE SITE IS FULLY STABILIZED AND/OR SESC RESPONSIBILITIES ARE ASSUMED BY THE OWNER IN WRITING.

TEMPORARY SWALES MUST BE USED TO CONTROL RUNOFF DURING CONSTRUCTION OF THE PROPOSED SITE WORK, AND MUST BE VEGETATED AFTER CONSTRUCTION, EROSION CONTROL MATS. MUST BE INSTALLED. IF NECESSARY. TO PREVENT EROSION AND SUPPORT VEGETATION. AFTER CONSTRUCTION IS COMPLETE AND TRIBUTARY AREAS TO THE SWALES HAVE BEEN STABILIZED, THE TEMPORARY SWALES MUST BE CLEARED AND FINAL DESIGN, INCLUDING INSTALLATION OF THE GRASS SWALE MUST BE PER THE DESIGN PLANS.

4. INLET PROTECTION MUST BE INSTALLED ON ALL CATCH BASINS ONCE CONSTRUCTED.

5. IF CONCRETE TRUCKS ARE WASHED OUT ON SITE, ALL WASHOUT MUST BE PERFORMED IN THE DESIGNATED CONCRETE WASHOUT AREA.

CONTRACTOR MUST NOTIFY "DIG SAFE" AT 8II (OR I-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.

CONTRACTOR MUST PERFORM DAILY SWEEPING AT CONSTRUCTION ENTRANCES DURING DEMOLITION AND CONSTRUCTION TO MINIMIZE SEDIMENTS ON EXTERNAL STREETS.

ANY EXISTING BUILDING(S) AND PROPERTY PROPOSED TO REMAIN THAT ARE DAMAGED BY THE CONTRACTOR MUST BE REPAIRED BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE OWNER. CONTRACTOR IS RESPONSIBLE FOR REMOVING AND LEGALLY DISPOSING (R&D) ALL MATERIALS INDICATED ON THE PLANS UNLESS SPECIFIED OTHERWISE HEREIN. R&D MATERIALS INCLUDE BUT

AND ANY EXCESS SOIL THAT IS NOT INCORPORATED INTO THE WORK IN ADDITION TO THOSE AREAS SPECIFICALLY DESIGNATED ON THE PLANS, ALL DISTURBED AREAS INCLUDING THE CONTRACTOR'S STOCKPILE AND STAGING AREAS WITHIN THE LIMIT OF WORK

MUST BE RESTORED TO MATCH THE DESIGN PLANS CONTRACTOR MUST DOCUMENT LOCATION OF ALL SUBSURFACE UTILITIES REMAINING IN PLACE AFTER DEMOLITION (ACTIVE AND INACTIVE/ABANDONED). LOCATION MUST BE DOCUMENTED BY FIELD SURVEY OR SWING TIES. COPIES OF LOCATION DOCUMENTATION MUST BE PROVIDED TO THE OWNER FOLLOWING COMPLETION OF DEMOLITION AND PRIOR TO START OF NEW CONSTRUCTION. A

MARKER MUST BE INSTALLED TO FINISH GROUND AT ALL INSTALLED CAPS/PLUGS. THE MARKER

ARE NOT LIMITED TO PAVEMENT, GRAVEL, CATCH BASINS, MANHOLES, GRATES/FRAMES/COVERS,

CAN BE A POST IN CONSTRUCTION AREAS OR PAINTED ON A PERMANENT SURFACE. ACTIVE UTILITY LINES AND STRUCTURES NOT SPECIFICALLY NOTED ON PLANS, BUT WHICH ARE ENCOUNTERED TO BE IN CONFLICT WITH THE PROPOSED WORK, MUST BE EXTENDED, PROTECTED, OR REWORKED BY THE CONTRACTOR AS DIRECTED OR REQUIRED BY THE UTILITY ENTITY OR

OWNER UNLESS OTHERWISE NOTED. CONTRACTOR MUST COORDINATE THE CUTTING AND CAPPING OF ALL UTILITIES WITH THE OWNER, THE MUNICIPALITY, AND ALL APPLICABLE UTILITY ENTITIES HAVING JURISDICTION.

INACTIVE SUBSURFACE UTILITIES NOT IN CONFLICT WITH THE PROPOSED WORK AREA MAY BE

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.

ABANDONED IN PLACE WITH WRITTEN PERMISSION FROM THE OWNER.

3. DURING CONSTRUCTION FLAGGERS MUST BE EMPLOYED TO ENSURE SAFETY FOR INTERACTION OF CONSTRUCTION VEHICLES AND ACTIVE TRAFFIC.

ALL SIGNS, FLAGGERS, 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.

I. ALL WORK TO BE DONE WITHIN THE STATE RIGHT OF WAY (ROW) SHALL CONFORM TO RHODE ISLAND STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, 2022 EDITION WITH ALL REVISIONS AND ADDENDA. STANDARD DETAILS FOR THIS WORK ARE R.I. STANDARD DETAILS 1998 EDITION (AMENDED JUNE 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.

DIMENSIONS ARE FROM THE FACE OF CURB, FACE OF BUILDING, FACE OF WALL, AND CENTER LINE 4. NO LANE OR SHOULDER CLOSURES ARE ALLOWED TO BE PERFORMED WITHIN THE STATE ROW

2. CURBING MUST BE PRECAST CONCRETE, MONOLITHIC CONCRETE, OR AS LABELED ON THE PLANS.

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

WORK WITHIN THE STATE'S ROW WILL CONFORM TO PROPOSED PUBLIC RIGHTS-OF-WAY ACCESSIBILITY GUIDELINES (PROWAG). WORK ONSITE WILL CONFORM TO AMERICANS WITH DISABILITIES ACT ACCESSIBILITY GUIDELINES (ADAAG) UNLESS THE WORK IS ON STATE OWNED

8. AS-BUILTS ARE REQUIRED FOR ALL DRAINAGE CONNECTIONS WITHIN THE STATE ROW. AS-BUILTS MUST BE PROVIDED TO THE RIDOT STORMWATER OFFICE AND INCLUDE INVERTS, MATERIALS, AND

AMERICANS WITH DISABILITIES ACT (ADA) NOTES

I. ALL IMPROVEMENTS MUST COMPLY WITH THE "AMERICANS WITH DISABILITIES ACT ACCESSIBILITY GUIDELINES" (ADAAG) BY THE US DEPARTMENT OF JUSTICE (CURRENT EDITION).

MAXIMUM RUNNING SLOPE ALONG ALL ACCESSIBLE PATHS OF TRAVEL MUST BE 4.5% (0.045 FT/FT), AND MAXIMUM CROSS SLOPE ACROSS ALL ACCESSIBLE PATHS OF TRAVEL MUST BE 1.5% (0.015 FT/FT).

ADA PARKING SPACES AND LOADING AREAS: THE STEEPEST SLOPE OF THE SPACE, MEASURED IN ANY DIRECTION (INCLUDING DIAGONALLY), MUST BE LESS THAN OR EQUAL TO 2% (0.02 FT/FT). THE CEOR GENERALLY RECOMMENDS A MAXIMUM OF 1.4% (0.014 FT/FT) BE USED FOR BOTH RUNNING AND CROSS SLOPES IN ORDER TO COMPLY 4. A MINIMUM 5'X5' LANDING MUST BE PROVIDED IN FRONT OF ALL PUBLICLY ACCESSIBLE BUILDING

ENTRANCES/ EGRESSES. THE STEEPEST SLOPE OF THE LANDING, MEASURED IN ANY DIRECTION (INCLUDING DIAGONAL), MUST BE LESS THAN OR EQUAL TO 2% (0.02 FT/FT). THE CEOR GENERALLY RECOMMENDS A MAXIMUM OF 1.4% (0.014 FT/FT) BE USED FOR BOTH RUNNING AND CROSS SLOPES IN ORDER TO COMPLY.

5. FOR EVERY 6 (OR FRACTION OF 6) ADA PARKING SPACES, AT LEAST ONE MUST BE A VAN PARKING SPACE. FOR EXAMPLE, IF 7 ADA PARKING SPACES ARE REQUIRED, A MINIMUM OF 2 MUST BE VAN

6. NOTWITHSTANDING THE NOTES LISTED ABOVE, TOWN OR STATE-SPECIFIC STANDARDS MAY BE MORE STRINGENT AND OVERRULE. IT IS THE RESPONSIBILITY OF THE USER OF THIS PLAN SET TO MAINTAIN COMPLIANCE WITH THE CONTROLLING STANDARD.

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. THE CONTRACTOR IS RESPONSIBLE FOR PROVIDING THE LEVEL OF CARE NECESSARY TO BE CERTAIN THAT THE CONSTRUCTED PRODUCT MEETS ADA/CONTROLLING STANDARDS. IN THE EVENT OF ANY NONCOMPLIANCE, THE CONTRACTOR MUST NOTIFY THE CEOR BEFORE CONSTRUCTION FOR ADVICE IN FINDING A RESOLUTION.

<u>GRADING, DRAINAGE, AND UTILITY NOTES:</u>

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 FLEVATIONS

DRAINAGE OUTLETS TO ASSURE PROPER TRANSITIONS BETWEEN EXISTING AND PROPOSED FACILITIES. CONTRACTOR MUST NOTIFY THE CEOR OF ANY DISCREPANCIES PRIOR TO

AT INTERFACE WITH PROPOSED PAVEMENTS, AND EXISTING GROUND ELEVATIONS ADJACENT TO

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 COMPLETION 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 EXCESS SOIL, TREES, ROCKS, BOULDERS, AND OTHER REFUSE, MUST BE DISCARDED OFF SITE IN ACCORDANCE WITH ALL FEDERAL, STATE AND LOCAL REGULATIONS. STUMPS MUST BE GROUND ON

10. THE SITE WILL HAVE 6" CONCRETE CURBING. SITE GRADING/CONTOURS SHOWN ON THE PLANS DO NOT NECESSARILY REFLECT THE APPROPRIATE CURBING REVEAL. CONTRACTOR MUST INSTALL CURBING WITH APPROPRIATE REVEAL UNLESS OTHERWISE NOTED.

II. NO STUMP DUMPS ARE ALLOWED ON SITE.

12. ALL DRAINAGE OUTFALLS ARE DESIGNED TO BE INSTALLED AT EXISTING GROUND ELEVATION. CONTRACTOR MUST IMMEDIATELY NOTIFY THE CEOR OF ANY DISCREPANCIES WHERE EXISTING GROUND IS HIGHER THAN OUTFALL DESIGN ELEVATION. ANY RESOLUTION OF DISCREPANCIES BY THE CONTRACTOR, UNLESS AUTHORIZED IN WRITING IN ADVANCE BY THE OWNER AND THE CEOR, IS DONE AT THE CONTRACTOR'S RISK

13. CONTRACTOR MUST PROVIDE SAW CUTTING AND FULL DEPTH PAVEMENT RESTORATION IN AREAS WHERE PAVEMENT AND/OR SIDEWALK IS REMOVED FOR UTILITY INSTALLATION.

14. 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.

IS. CONTRACTOR MUST HOLD/ SUPPORT/ RESTORE ALL EXISTING UTILITY COMPONENTS INCLUDING (BUT NOT LIMITED TO) POLES, MAST ARMS AND ABOVEGROUND OBJECTS AS NECESSARY DURING THE PROPOSED WORKS AND ELECTRICAL INSTALLATION. CONTRACTOR MUST COORDINATE SAID WORKS WITH ALL ASSOCIATED UTILITY OWNERS ACCORDINGLY. ANY EXISTING ITEMS DAMAGED OR REMOVED AS INCIDENTAL DURING UTILITY CONNECTION/ ELECTRICAL INSTALLATION INCLUDING (BUT NOT LIMITED TO) CURB IN THE ROW MUST BE REPLACED IN KIND FOLLOWING COMPLETION OF WORKS.

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

DRAINAGE STRUCTURES MUST BE AS FOLLOWS (UNLESS OTHERWISE NOTED ON PLANS): CATCH BASINS ALONG CURBING: RIDOT STD. 4.4.0, TYPE F, 4' DIAMETER WITH APRON STONE • CATCH BASINS NOT ALONG CURBING: RIDOT STD 4.4.0, 4' DIAMETER

 CATCH BASINS MUST HAVE 3 FT SUMPS WITHOUT SEEP HOLES • SINGLE FRAME CATCH BASIN GRATES: RIDOT STD 6.3.2

 DOUBLE FRAME CATCH BASIN GRATES: RIDOT STD 6.3.2 HIGH CAPACITY CATCH BASIN GRATES: RIDOT STD 6.3.4 AND INSTALLED ANYWHERE GRADES ARE

6% AND STEEPER • DRAINAGE MANHOLE COVERS: RIDOT STD 6.2.1

 DROP INLETS: RIDOT STD 4.5.0, 4.5.1 OR 4.5.2 APRON STONE, WHERE REQUIRED: RIDOT STD 7.1.7 OR 7.1.8

STRUCTURE SEALS AND CONNECTIONS MUST BE WATERTIGHT.

HEADWALLS: RIDOT STD 2.1.0

 MANHOLES: RIDOT STD 4.2.0, 4.2.1 OR 4.2.2 AS REQUIRED. SEE NOTES BELOW FOR COVER TYPE ALL OUTLET CONTROL STRUCTURES (OCS) AND DRAINAGE MANHOLES WITH INTERNAL WEIRS MUST USE FLAT TOP STRUCTURE COVER.

 FOR ALL OTHER DRAINAGE STRUCTURES: IT IS THE CONTRACTORS RESPONSIBILITY TO DETERMINE THE APPROPRIATE STRUCTURE TOP REQUIRED (E.G. CONE TOP, FLAT TOP ETC) TO MEET THE DESIGN PARAMETERS AS SHOWN ON THESE PLANS. INCLUDING (BUT NOT LIMITED TO) THE RELATIONSHIP BETWEEN FINISH SURFACE ELEVATION/ DEPTH TO PIPE INVERTS AND MEETING MANUFACTURER/ AHJ REQUIREMENTS & SPECIFICATIONS.

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

ALL SANITARY SEWER PIPING MUST BE ASTM RIGID SCHEDULE 40 OR HEAVIER PVC PIPE FOR SEWER USE CONFORMING TO ASTM SPECIFICATIONS D-3034 UNLESS NOTED OTHERWISE ON THE PLANS OR IN THE SPECIFICATIONS. ALL SEWER IMPROVEMENTS MUST COMPLY WITH THE CITY OF CRANSTON ANNEX A RULES AND REGULATIONS AND ANY APPLICABLE AUTHORITY HAVING JURISDICTION, INCLUDING (BUT NOT (12W) STOP LINE (REFERENCE MUTCD SECTION 3B.16) LIMITED TO) MATERIALS, DIMENSIONS AND ACCESS COVERS. CONTRACTOR MUST SUBMIT SHOP DRAWINGS FOR APPROVAL BY ENGINEER OF RECORD PRIOR TO CONSTRUCTION. ALL FITTINGS,

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

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

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 PADS, CONCRETE ENCASEMENTS 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 RI ENERGY PRIOR TO CONSTRUCTION.

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.

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 ENGINEERING WILL NOT ACCEPT FIELD MEASUREMENTS FROM THE SITE CONTRACTOR.

ABBREVIATIONS LEGEND

ADA AMERICANS WITH DISABILITY ACT N/F NOW OR FORMERLY AUTHORITY HAVING JURISDICTION OHW OVERHEAD WIRE ASSESSOR'S PLAT PE POLYETHYLENE

PROPERTY LINE

RIHB RHODE ISLAND

RL ROOF LEADER

ROW RIGHT-OF-WAY

SED SEDIMENT FOREBAY

SFL STATE FREEWAY LINE

SHL STATE HIGHWAY LINE

SMH SEWER MANHOLE

SNDF SAND FILTER

SS SIDE SLOPE

TC TOP OF CURB

TD TRENCH DRAIN

TF TOP OF FOUNDATION

TW TOP OF WALL (FINISHED

DETENTION SYSTEM

INFILTRATION SYSTEM

WALKOUT ELEVATION

GRADE AT TOP OF WALL)

STA STATION

TRANS TRANSITION

TYP TYPICAL

UDS UNDERGROUND

UIS UNDERGROUND

UP UTILITY POLE

WQ WATER QUALITY

SG SLAB ON GRADE ELEVATION

SFM SEWER FORCE MAIN

SF SQUARE FOOT

S SLOPE

SD SUBDRAIN

RCP REINFORCED CONCRETE PIPE

HIGHWAY BOUND

BOTTOM OF CURB PR PROPOSED BOTTOM OF TESTHOLE PVC POLYVINYL CHLORIDE BITUMINOUS (BERM) R RADIUS R&D REMOVE AND DISPOSE

BS BASEMENT SLAB ELEVATION BW FINISHED GRADE AT BOTTOM OF WALL CB CATCH BASIN (C) CALCULATED

ARCHITECT

 CENTERLINE (CA) CHORD ANGLE CEOR CIVIL ENGINEER OF RECORD. DIPRETE ENGINEERING UNLESS DESIGNATED OTHERWISE BY OWNER

CLDIP CONCRETE LINED DUCTILE IRON PIPE CONC CONCRETE

DCB DOUBLE CATCH BASIN DI DROP INLET DMH DRAINAGE MANHOLE DP DETENTION POND

ELEV ELEVATION

EOP EDGE OF PAVEMENT ESC EROSION AND SEDIMENT CONTROL EX EXISTING

FES FLARED END SECTION FINISH FLOOR ELEVATION GARAGE SLAB ELEVATION GWT GROUND WATER TABLE

HW HEADWALI HIGH CAPACITY CATCH BASIN GRATE HIGH DENSITY POLYETHYLENE HDPE ID INLINE DRAIN

IP INFILTRATION POND LARCH LANDSCAPE ARCHITECT LINEAR FEET LOD LIMIT OF DISTURBANCE

LP LIGHT POLE MEASURED

ENGINEER SITE CALLOUTS LEGEND NOT ALL ITEMS SHOWN WILL APPEAR ON PLANS

MECHANICAL/ELECTRICAL/ PLUMBING

MCC) MONOLITHIC CONCRETE CURB (SEE DETAIL)

VCC) VERTICAL CONCRETE CURB (PRE CAST RIDOT STD OR APPROVED EQUAL) BB) BITUMINOUS BERM (SEE DETAIL)

7.I.0) RIDOT STD PRECAST CONCRETE CURB RIDOT STD 3'-0' PRECAST CONCRETE TRANSITION CURB

7.1.2) RIDOT STD 6'-0" PRECAST CONCRETE TRANSITION CURB

(7.6.0) RIDOT STD CURB SETTING DETAIL (43.1.0) RIDOT STD CEMENT CONCRETE SIDEWALK

(43.5.0) RIDOT STD CEMENT CONCRETE DRIVEWAYS (48.1.0) RIDOT STD DETECTABLE WARNING SYSTEM

4W) 4" PAINTED WHITE MARKINGS (4W45) 4" WHITE STRIPING 2' ON CENTER AT 45°

ADA SPACE PAVEMENT MARKINGS MUST COMPLY WITH ALL ADA

ADA CURB RAMP MUST COMPLY WITH ALL ADA REGULATIONS AND REQUIREMENTS. VAN ADA SPACE PAVEMENT MARKINGS MUST COMPLY WITH ALL ADA

AND MUTCD REGULATIONS AND REQUIREMENTS.

AND MUTCD REGULATIONS AND REQUIREMENTS. YL) YIELD LINE (REFERENCE MUTCD SECTION 3B.16)

REDEVELOPMENT NOTES: I. ALL EXISTING MANHOLE COVERS, GRATES, VALVE BOXES, SHUT-OFFS, AND HAND HOLES, TO

REMAIN, WITHIN THE LIMIT OF WORK MUST BE RESET TO FINISHED GRADE. ALL UTILITY STRUCTURES INDICATED TO BE ABANDONED MUST BE CUT TO FOUR FEET BELOW FINISH GRADE ELEVATION, INLETS AND OUTLETS PLUGGED WITH MORTAR, AND SEALED WITH

CONCRETE, UNLESS OTHERWISE NOTED. WHEN ABANDONING INACTIVE UTILITY PIPES NEAR THE PROPERTY LINE, THE CONTRACTOR MUST CAP OR PLUG IN PLACE AT THE PROPERTY LINE. WHEN REMOVING AND DISPOSING OF A PORTION OF EXISTING PIPE, THE CONTRACTOR MUST CAP OR PLUG BOTH ENDS REMAINING IN PLACE. CONTRACTOR MUST DOCUMENT LOCATION OF ALL SUBSURFACE UTILITIES REMAINING IN PLACE

AFTER DEMOLITION (ACTIVE AND INACTIVE/ABANDONED). LOCATION CAN BE DOCUMENTED BY

FIELD SURVEY OR SWING TIES. COPIES OF LOCATION DOCUMENTATION MUST BE PROVIDED TO

THE OWNER. WHERE POSSIBLE NO GUARANTEE IS MADE THAT THE EXISTING UTILITY SERVICE CONNECTION(S) ARE SUITABLE FOR REUSE. EXISTING UTILITY SERVICE CONNECTIONS WERE NOT FIELD VERIFIED FOR SIZE MATERIAL, EXACT LOCATION, OR INSPECTED FOR SUITABILITY FOR REUSE. CONTRACTOR MUST EVALUATE THE SIZE, MATERIAL, LOCATION, AND SUITABILITY FOR REUSE, AND IMMEDIATELY PROVIDE WRITTEN DOCUMENTATION OF CONDITIONS TO THE OWNER/DIPRETE ENGINEERING.

EXISTING LEGEND

_ _ _ _ IO _ _ _ _ _

---- 75' ---- -- 75' BUFFER

—— 100'——— —— 100' BUFFER

---- I50' ---- - I50' BUFFER

PROPOSED LEGEND

----- STATE HIGHWAY LINE

NOT ALL ITEMS SHOWN WILL APPEAR ON PLANS

PROPERTY LINE

—O——O——— CHAINLINK FENCE

GUARDRAII

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

PROPERTY LINE

ASSESSORS LINE

BUILDING

BRUSHLINE

TREELINE

GUARDRAIL

RETAINING WALL

MINOR CONTOUR LINE

MAJOR CONTOUR LINE

SEWER FORCE MAIN

STONE WALL

WATER LINE

SEWER LINE

GAS LINE

ELECTRIC LINE

DRAINAGE LINE

SOILS LINES

25' BUFFER

50' BUFFER

FEMA BOUNDARY

WETLAND LINE & FLAC

RETAINING WALL

MINOR CONTOUR LIN

SPOT ELEVATION

EDGE OF PAVEMENT

BITUMINOUS BERN

CONCRETE CURB

(RIDOT STD 7.1.0)

MONOLITHIC CONCRET

CURB AND SIDEWALK

BUILDING FOOTPRINT

ASPHALT PAVEMENT

HEAVY DUTY ASPHALT

STREAM

OVERHEAD WIRES

FENCE

NAIL FOUND/SET **•**/® DRILL HOLE FOUND/SET IRON ROD FOUND/SET BOUND FOUND/SET SIGN BOLLARD SOIL EVALUATION CB CATCH BASIN DOUBLE CATCH BASIN DCB DRAINAGE MANHOLE DMH FES FLARED END SECTION GUY POLE EMH ELECTRIC MANHOLE UP UTILITY/POWER POLE LIGHTPOST SMH SEWER/SEPTIC MANHOLE SEWER VALVE CLEANOUT

HYDRANT WELL

GAS VALVE BENCH MARK ~~ STREAM FLOW DIRECTION → ↑ GWO ↑ → GROUNDWATER OVERLAY ——— ↑ GWR ↑——— ______ ↑ NHA ↑------NATURAL HERITAGE PROTECTION

------ STATE FREEWAY LINI COMMUNITY WELLHEAD NON-COMMUNITY _____ ↑ NCWP ↑------WELLHEAD PROTECTION DRAINAGE LINE BUILDING SETBACKS PERFORATED SUBDRAIN $-- \rightarrow -- \rightarrow -- \rightarrow -- \rightarrow --$ SWALE SEWER FORCE MAIN GAS LINE WATER LINE HYDRANT ASSEMBLY WATER SHUT OFF MAJOR CONTOUR LIN WATER VALVE THRUST BLOCK _____s ___

SEWER LINE OVERHEAD WIRE ELECTRIC, TELEPHONE, CABLE LIMIT OF DISTURBANCE/ LIMIT OF CLEARING SLOPES STEEPER THAN 3:1 (2:1

 $\times\!\times\!\times\!\times\!\times\!\times\!\times\!\times\!\times\!\times$ OR I:I SLOPES) UNDERGROUND INFILTRATION OUTLINE POND ACCESS

PAVEMENT HEAVY DUTY CONCRETE

---- BUILDING OVERHANG

>>> MILL AND OVERLAY CONCRETE

ASPHALT SIDEWALK SAWCUT LINE 1111111111111111111

SIGN (RIDOT STD 24.6.2 AS APPLICABLE) ACCESSIBLE PARKING SPACE SYMBOLS

BUILDING INGRESS/EGRESS

NOTE: THIS PLAN SET MUST BE REPRODUCED IN COLOR

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.

THOSE IN CONTROL OF UTILITIES NOT SHOWN ON THESE DOCUMENTS. CONTACT DIG SAFE A MINIMUM OF 72 WORKING HOURS PRIOR

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

THE PURPOSE OF THIS PLAN SET IS TO OBTAIN A PERMIT FROM THE REGULATORY AGENCY IT WAS SUBMITTED TO. THIS PLAN SET CONTAINS THE REQUIRED INFORMATION NECESSARY FOR APPROVAL BY THE SPECIFIC AGENCY IT WAS SUBMITTED TO AND MAY NOT HAVE INFORMATION NECESSARY FOR OTHER REGULATORY AGENCIES. THIS PLAN SET MUST NOT BE CONSTRUED AS A FULL CONSTRUCTION OR BID SET. ADDITIONAL DETAIL IS REQUIRED FOR CONSTRUCTION AND BID DOCUMENTS, SUCH AS (BUT NOT LIMITED TO) FINE GRADING, GRADING BETWEEN THE CONTOUR INTERVAL, ADDITIONAL SURVEY/ MAPPING, BUILDING SHAPE/ LOCATION, ADA, UTILITY CONNECTIONS, UTILITY CROSSINGS, SURFACE AND GROUND WATER MITIGATION, SOIL STABILITY AND CONSISTENCY, SPECIFIC

IRRIGATION VALVE WATER VALVE LOUIS BARONE III MONITORING WELL UNKNOWN MANHOLE GROUNDWATER RECHARGE AREA GROUNDWATER RESERVOIR

SAND FILTER

CATCH BASIN DOUBLE CATCH BASIN DRAINAGE MANHOLE

FLARED END SECTION HEADWALL SEWER MANHOLE

> SINGLE LIGHT DOUBLE LIGHT OVERHANGING LIGHT

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

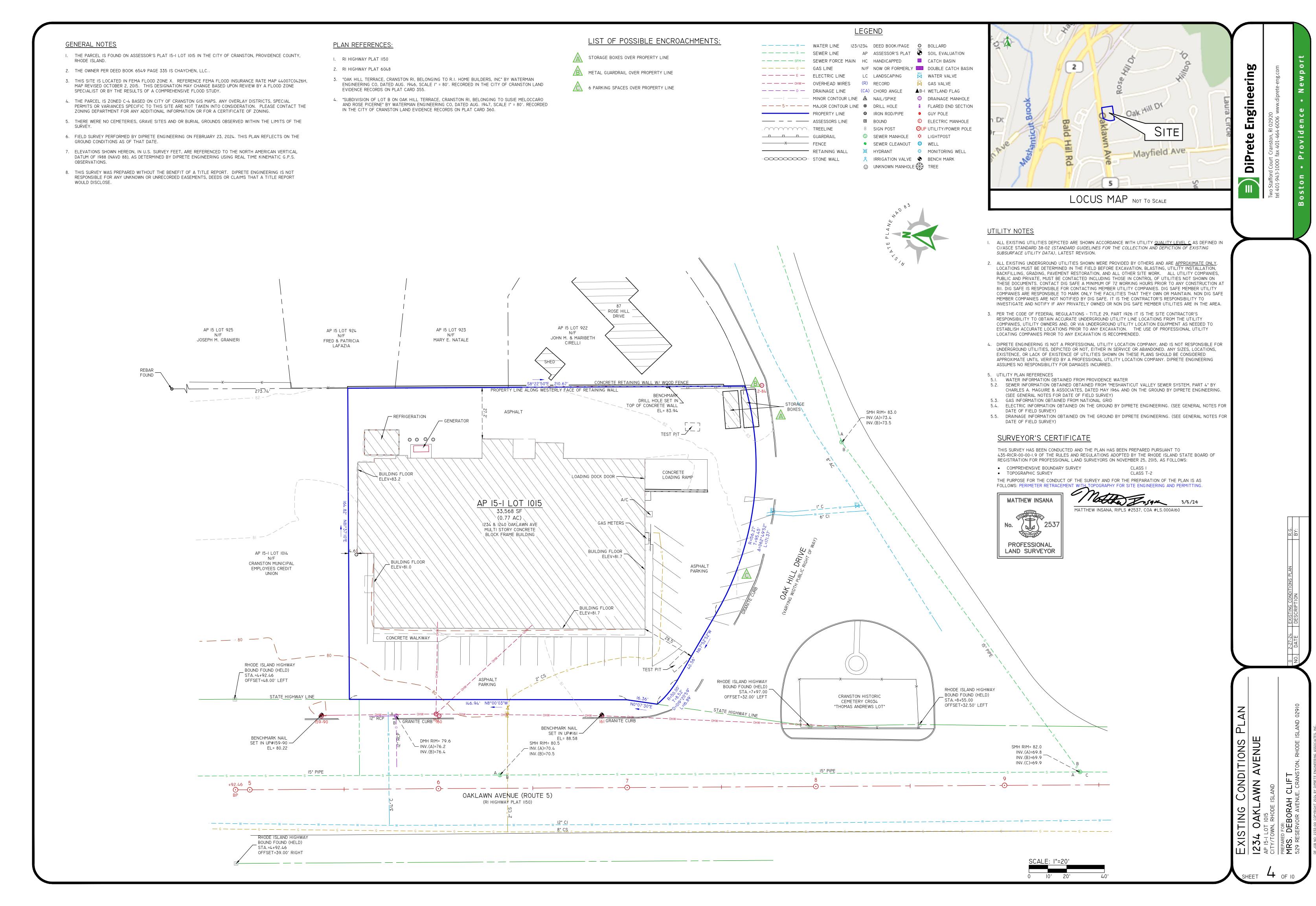
PER THE CODE OF FEDERAL REGULATIONS - TITLE 29, PART 1926 IT IS THE SITE CONTRACTOR'S RESPONSIBILITY TO OBTAIN ACCURATE UNDERGROUND UTILITY LINE LOCATIONS FROM THE UTILITY COMPANIES, UTILITY OWNERS AND, OR VIA UNDERGROUND UTILITY LOCATION EQUIPMENT AS NEEDED TO ESTABLISH ACCURATE LOCATIONS PRIOR TO ANY EXCAVATION. THE USE OF

RESTORATION, AND ALL OTHER SITE WORK. ALL UTILITY COMPANIES, PUBLIC AND PRIVATE, MUST BE CONTACTED INCLUDING

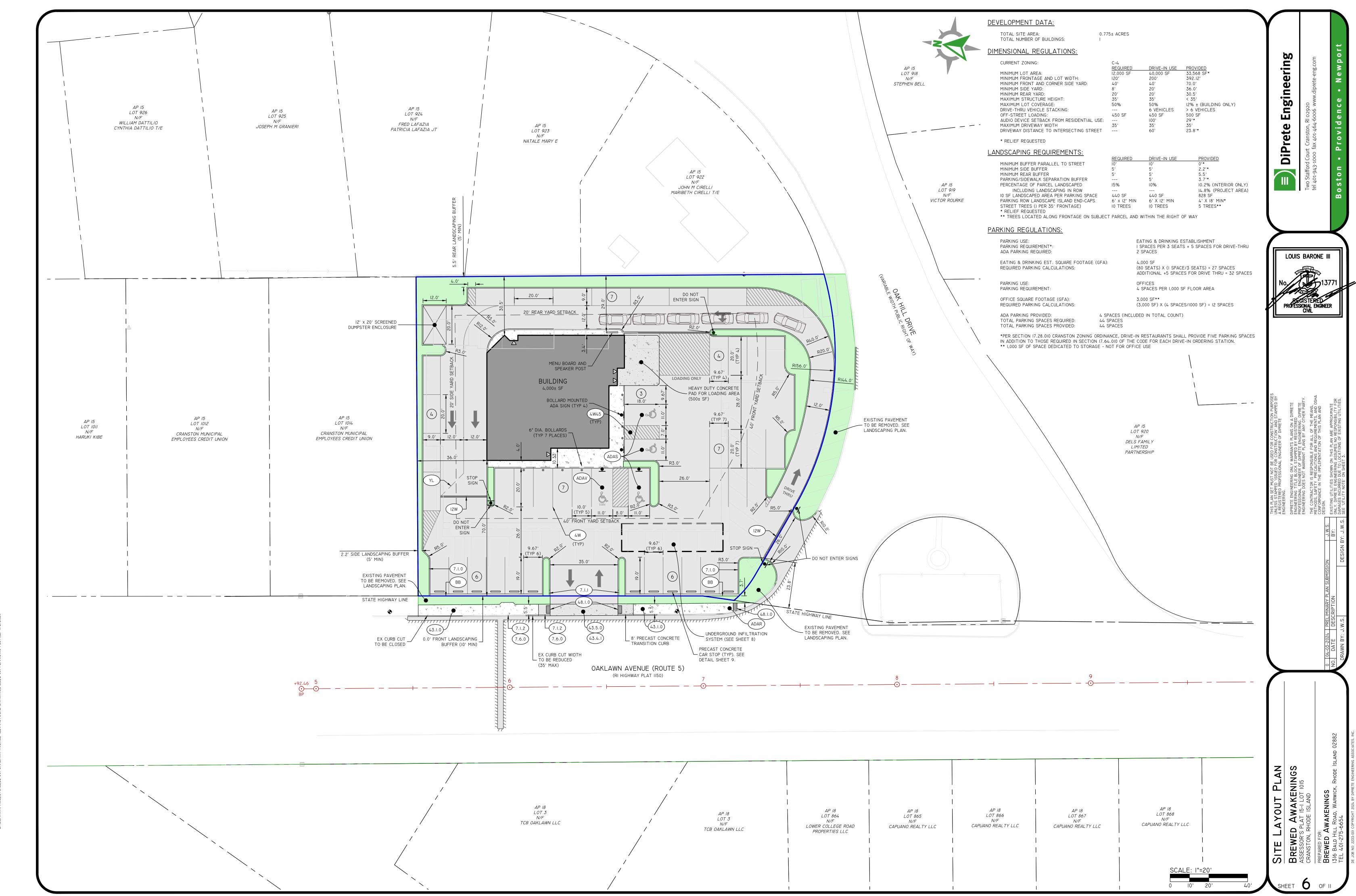
COMPANY. DIPRETE ENGINEERING ASSUMES NO RESPONSIBILITY FOR DAMAGES INCURRED.

END USER NEEDS, CONSTRUCTABILITY ISSUES, ETC. ANY USER OF THESE PLANS SHOULD UNDERSTAND THIS LIMITATION.

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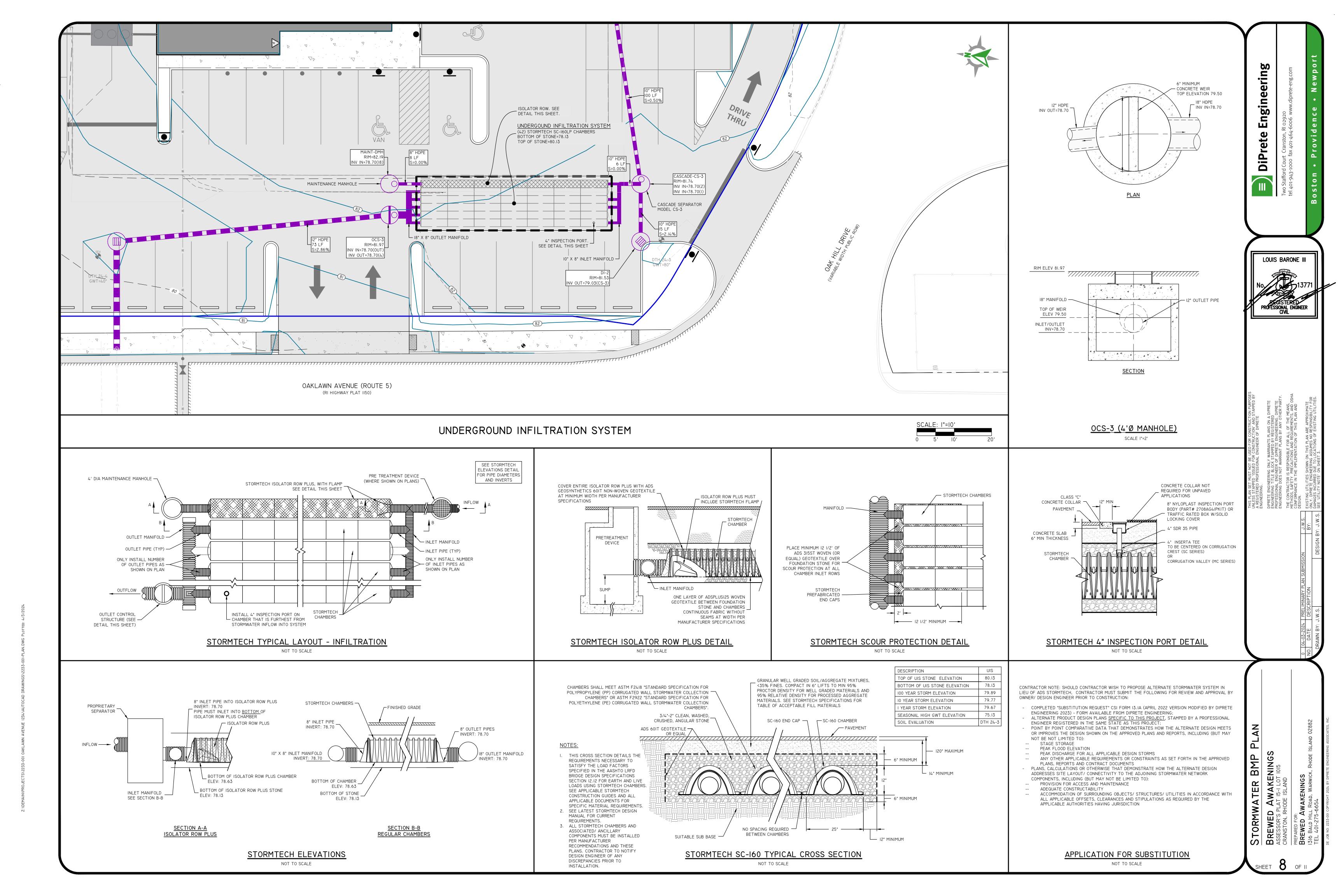


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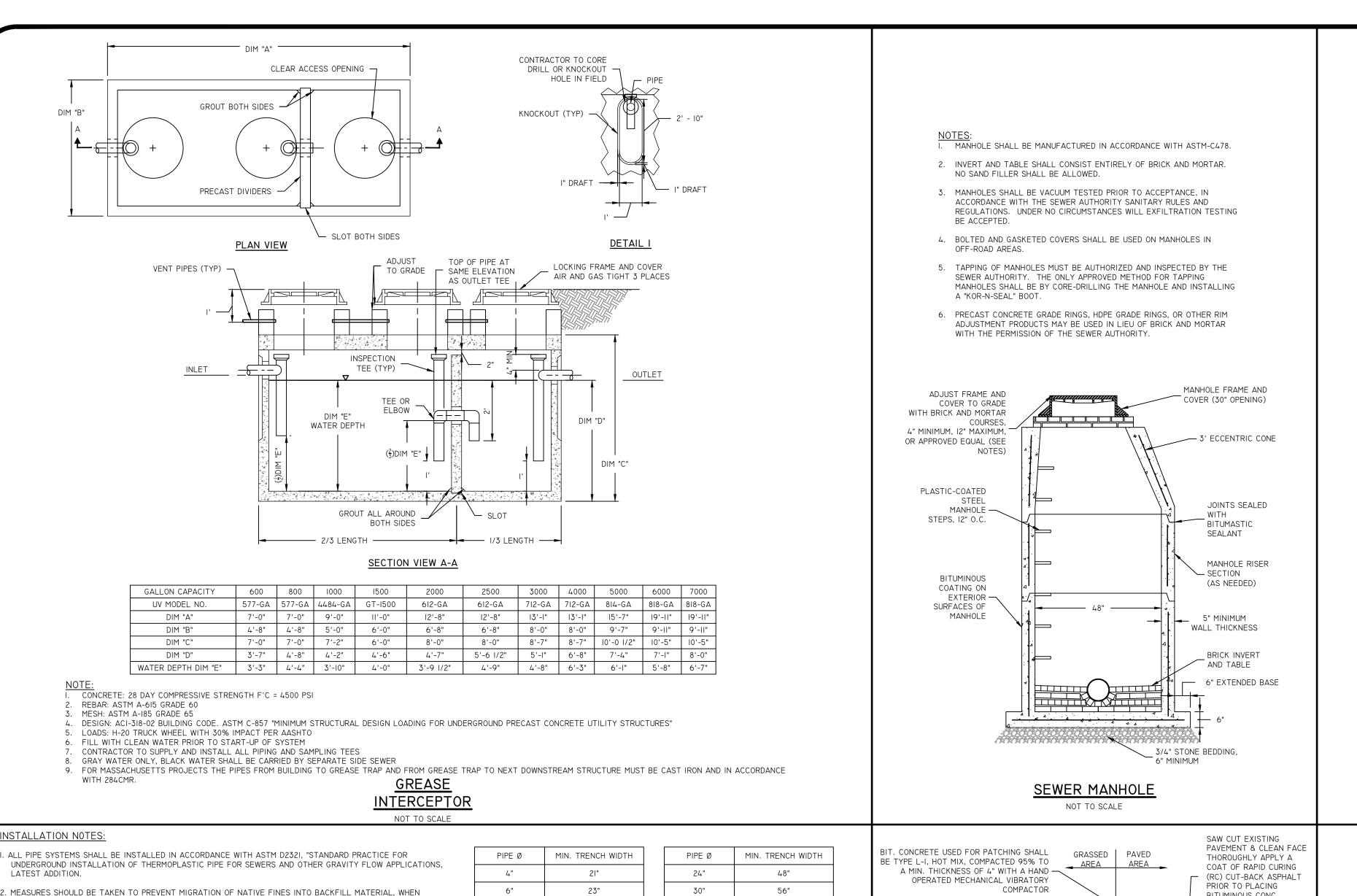


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Z:\DEMAIN\PROJECTS\2233-00I OAKLAWN AVENUE 1234\AUTOCAD DRAWINGS\2233-00I-PLAN.DWG PLOTTED: 4,







26"

28"

34"

39"

MINIMUM COVER TO

BOTTOM OF

FLEXIBLE PAVEMENT, H

BEDDING:

MUELLER STYLE MARK II

OR RED HED STYLE CURB STOP

4" FOR 30" TO 60" PIPE

HOUSE FOUNDATION

SPRING LINE —

4" FOR I2" TO 24" PIPE

- BUFFALO STYLE 2 1/2"

HDPE TRENCH DETAIL

COPPER TYPE K OR

POLYETHYLENE 'CTS'

200 PSI, I" Ø REQUIRED

WATER SERVICE INSTALLATION (TYP)

ROAD SURFACE

DISTRIBUTION MAIN -

NOT TO SCALE

36"

42"

48"

60"

FINISHED GRADE

64"

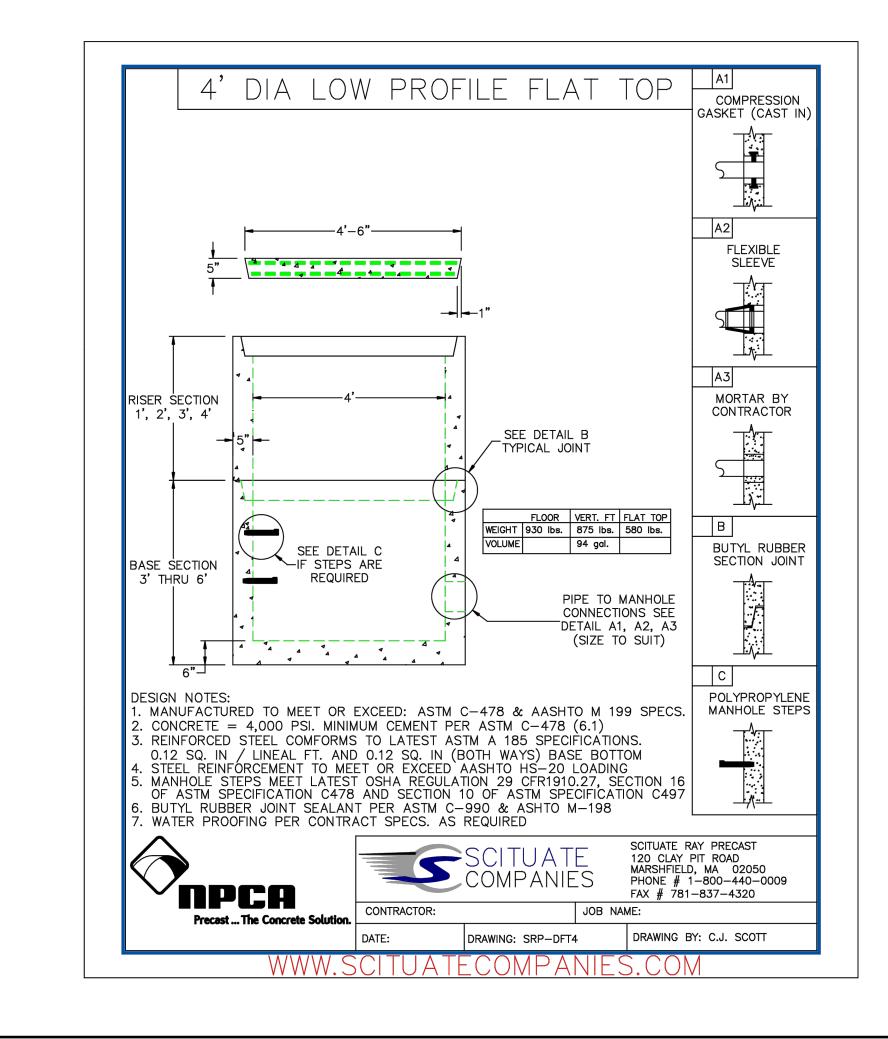
72"

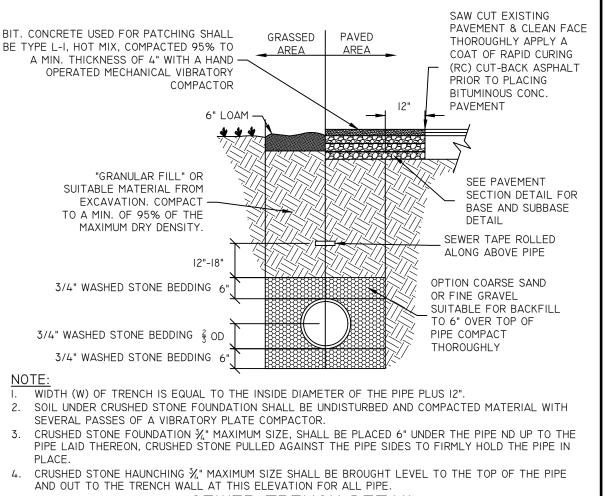
80"

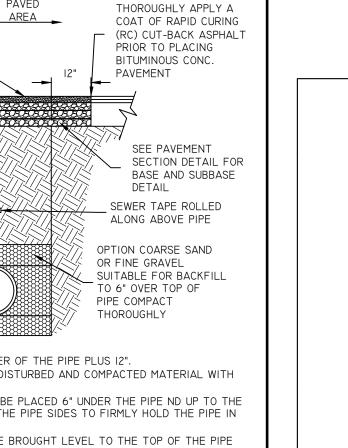
96"

BACKFILL

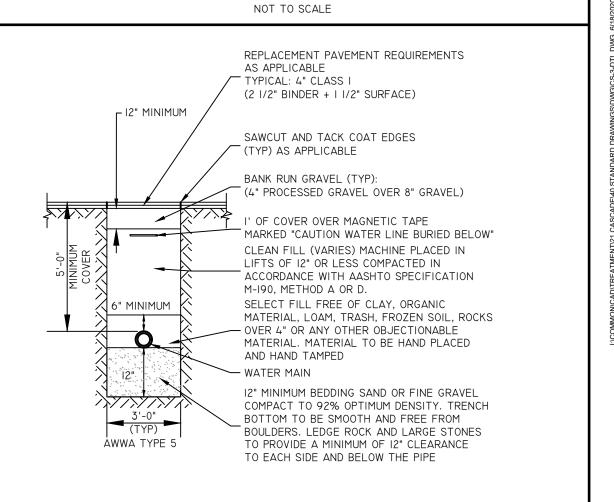
— SUITABLE FOUNDATION



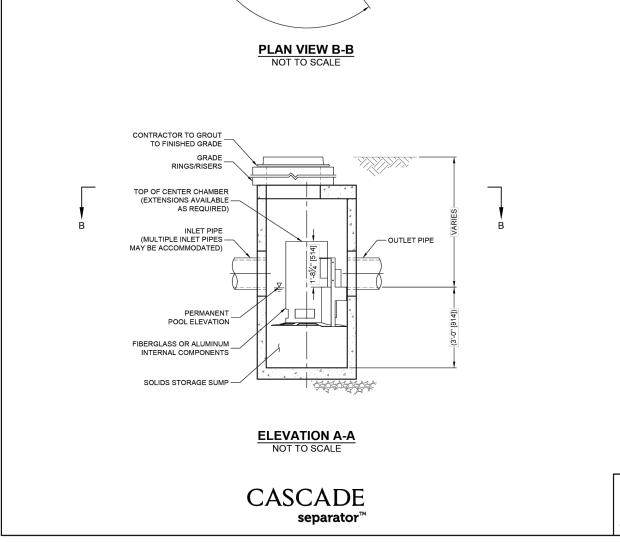




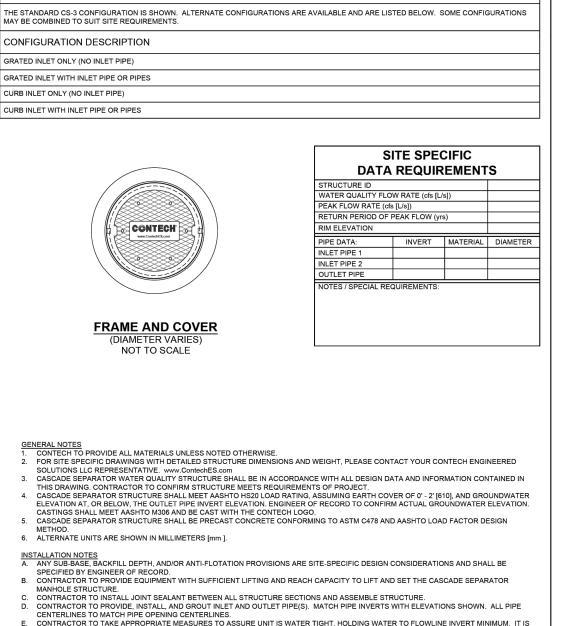
SEWER TRENCH DETAIL



WATER TRENCH DETAIL NOT TO SCALE



TOP SLAB ACCESS



GRATED INLET ONLY (NO INLET PIPE) GRATED INLET WITH INLET PIPE OR PIPES CURB INLET WITH INLET PIPE OR PIPES GENERAL NOTES
1. CONTECH TO PROVIDE ALL MATERIALS UNLESS NOTED OTHERWISE.
2. FOR SITE SPECIFIC DRAWINGS WITH DETAILED STRUCTURE DIMENSIONS AND WEIGHT, PLEASE CONTACT YOUR CONTECH ENGINEERED SOLUTIONS LLC REPRESENTATIVE. www.ContechES.com
3. CASCADE SEPARATOR WATER QUALITY STRUCTURE SHALL BE IN ACCORDANCE WITH ALL DESIGN DATA AND INFORMATION CONTAINED IN 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 M306 AND BE CAST WITH THE CONTECH LOGO.

CASCADE SEPARATOR STRUCTURE SHALL BE PRECAST CONCRETE CONFORMING TO ASTM C478 AND AASHTO LOAD FACTOR DESIGN METHOD. METHOD.
6. ALTERNATE UNITS ARE SHOWN IN MILLIMETERS [mm]. INSTALLATION NOTES

A. ANY SUB-BASE, BACKFILL DEPTH, AND/OR ANTI-FLOTATION PROVISIONS ARE SITE-SPECIFIC DESIGN CONSIDERATIONS AND SHALL BE A. ANY SUB-BASE, BACKFILL DEPTH, AND/OR ANTI-FLOTATION PROVISIONS ARE SITE-SPECIFIC DESIGN CONSIDERATIONS AND SHALL BE SPECIFIED BY ENGINEER OF RECORD.

B. CONTRACTOR TO PROVIDE EQUIPMENT WITH SUFFICIENT LIFTING AND REACH CAPACITY TO LIFT AND SET THE CASCADE SEPARATOR MANHOLE STRUCTURE.

C. CONTRACTOR TO INSTALL JOINT SEALANT BETWEEN ALL STRUCTURE SECTIONS AND ASSEMBLE STRUCTURE.

D. 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. CEN LENLINES 10 MAI 10H PIPE OPENING CENTERLINES.

E. 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 GROUTED. **C**NTECH CASCADE SEPARATOR www.contechES.com entre Pointe Dr., Suite 400, West Ches STANDARD DETAIL

CASCADE SEPARATOR DESIGN NOTES

A A S

Engineerin

LOUIS BARONE III

Z:\DEMAIN\PROJECTS\2233-001 OAKLAWN AVENUE 1234\AUTOCAD DRAWINGS\2233-001-PLAN.DWG PLOTTED: 4/3/2024