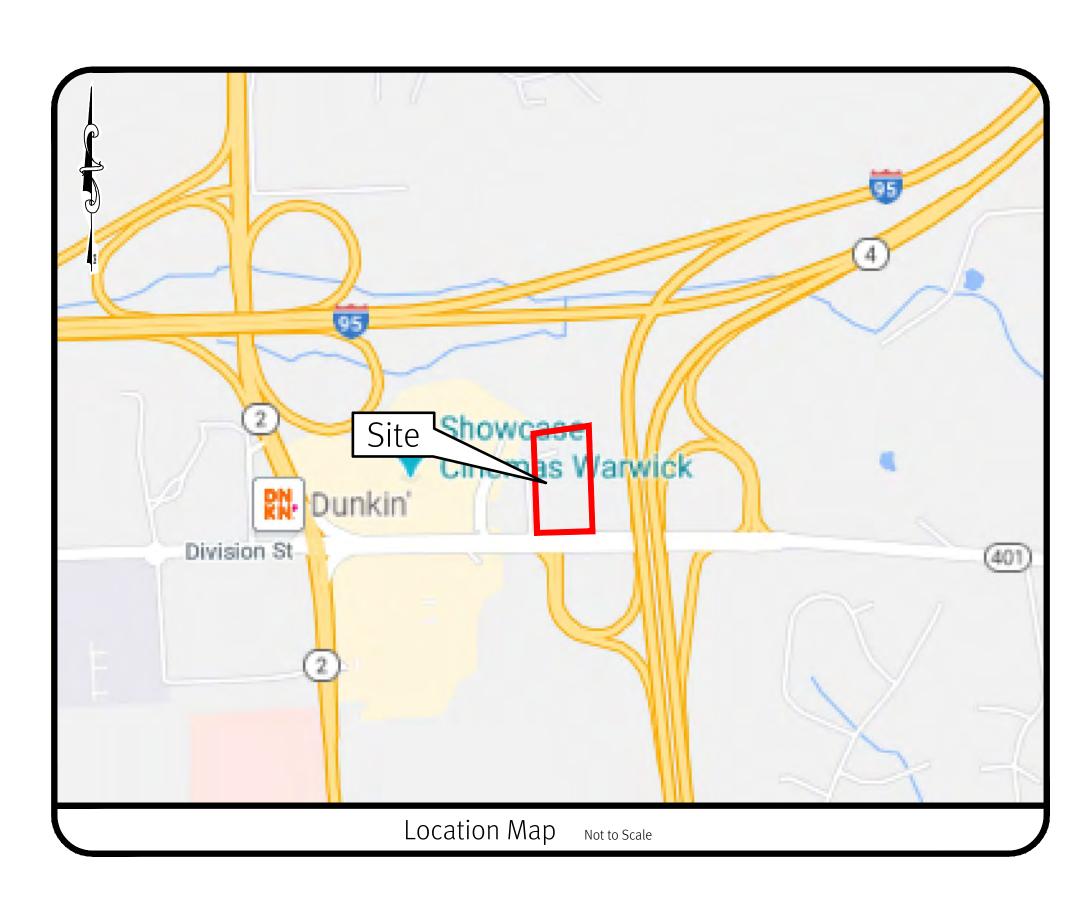
# 1149 Division Street

1149 Division Street Warwick, Rhode Island

Assessor's Plat 215 Lot 8



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# 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.

# DOT

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.

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Meadows

THIS SITE IS LOCATED IN FEMA FLOOD ZONE X (UNSHADED). REFERENCE FEMA FLOOD INSURANCE RATE MAP 44003C0136G, MAP REVISED DECEMBER 3 2010. (FLOOD PLAIN DESCRIPTIONS SHOWN BELOW)

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

- THE BOUNDARY LINE AS SHOWN ON THIS PLAN DEPICTS THE RESULTS OF A CLASS I BOUNDARY RETRACEMENT SURVEY AS PERFORMED BY DIPRETE ENGINEERING ASSOCIATES, INC. 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 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; ELEVATIONS SHOW, IN U.S. SURVEY FEET. ARE REFERENCED TO THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88), AS DETERMINED BY DIPRETE ENGINEERING USING REAL TIME KINEMATIC GPS OBSERVATIONS.
- ALL WORK PERFORMED HEREIN IS TO BE GOVERNED BY CURRENT EDITIONS OF THE RHODE ISLAND STANDARD SPECIFICATION FOR ROAD AND BRIDGE CONSTRUCTION. CITY OF WARWICK STANDARD SPECIFICATIONS AND DETAILS AND SPECIFICATIONS INCLUDED AS PART OF THE DRAWINGS. IN AREAS OF CONFLICT BETWEEN THE DIFFERENT SPECIFICATIONS, THE DESIGN PLANS AND PROJECT SPECIFICATIONS WILL TAKE PRECEDENCE OVER THE GENERAL SPECIFICATIONS AND THE DESIGN ENGINEER WILL INTERPRET THE CONSTRUCTION REQUIREMENT. THE CONTRACTOR IS ADVISED TO SUBMIT A REQUEST FOR INFORMATION (RFI) FOR ANY AREAS OF CONFLICT BEFORE COMMITTING TO CONSTRUCTION.
- THE SITE IS NOT WITHIN A:
  - GROUNDWATER PROTECTION AREA (RIDEM) NATURAL HERITAGE AREAS (RIDEM) NARROW RIVER SPECIAL AREA MANAGEMENT PLAN (CRMC) SALT PONDS SPECIAL AREA MANAGEMENT PLAN (CRMC) GROUNDWATER PROTECTION OVERLAY DISTRICT (TOWN)
- THE FOLLOWING DOCUMENTS ARE CONSIDERED PART OF THE PROJECT PLANS AND THE CONTRACTOR/ OWNER MUST MAINTAIN THESE DOCUMENTS AS PART OF A FULL PLAN SET:
  - SOIL EROSION AND SEDIMENT CONTROL PLAN (SESC). THE SESC CONTAINS THE
    - FOLLOWING: EROSION CONTROL MEASURES • SHORT TERM MAINTENANCE

LONG TERM MAINTENANCE

- ESTABLISHMENT OF VEGETATIVE COVER CONSTRUCTION POLLUTION PREVENTION
- SEQUENCE OF CONSTRUCTION • STORMWATER OPERATION AND MAINTENANCE PLAN (0&M). THE 0&M CONTAINS:
- 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.
- THE SITE IS TO BE SERVICED BY PUBLIC WATER AND PUBLIC SEWER.
- THE DRAINAGE SYSTEM IS DESIGNED TO MEET THE WARWICK SUBDIVISION AND LAND DEVELOPMENT REGULATIONS WITH THE USE OF CATCH BASINS, CULVERTS, A BIORETENTION POND, AND AN UNDERGROUND DRAINAGE BASIN. THE STORMWATER MANAGEMENT SYSTEM MEETS THE RIDEM BEST MANAGEMENT PRACTICES.
- 13. THE SITE IS PROPOSED TO BE BUILT IN (1) PHASE.
- SOIL EVALUATIONS. WERE COMPLETED BY DIPRETE ENGINEERING ON 2/1/2021
- ANY PROPRIETARY PRODUCTS REFERENCED IN THIS PLAN SET ARE REPRESENTATIVE OF THE MINIMUM DESIGN REQUIREMENTS FOR THE PURPOSE IT PROPOSES TO SERVE. ALTERNATIVES TO ANY PROPRIETARY PRODUCT MAY BE SUBMITTED TO THE ENGINEER OF RECORD FOR CONSIDERATION, WHICH MUST BE ACCOMPANIED BY APPROPRIATE SPECIFICATION SHEETS/ DESIGN CALCULATIONS THAT DEMONSTRATE THE ALTERNATIVE(S) MEET THE MINIMUM DESIGN PARAMETERS OF THE PRODUCT SHOWN ON THE PLANS. NO ALTERNATIVES MAY BE USED WITHOUT THE WRITTEN APPROVAL OF THE ENGINEER OF RECORD.
- THIS PLAN SET MAY REFERENCE AND/ OR INCLUDE REPRODUCTIONS OF PROPRIETARY PRODUCTS/ DETAILS BY OTHERS, AND/ OR THEIR ASSOCIATED SPECIFICATIONS. ANY REFERENCED OR REPRODUCED PROPRIETARY PRODUCT OR DETAIL BY OTHERS THAT IS SHOWN ON DIPRETE PLANS IS STRICTLY FOR INFORMATION / SPECIFICATION PURPOSES ONLY. DIPRETE ENGINEERING DOES NOT WARRANT ANY PROPRIETARY PRODUCTS, DETAILS BY OTHERS OR THEIR RESPECTIVE DESIGNS. IF A DIPRETE ENGINEERING PLAN INCLUDES A PROPRIETARY PRODUCT/ DETAIL BY OTHERS (EITHER EXPLICITLY OR IMPLIED) AND IS STAMPED BY A REGISTERED PROFESSIONAL ENGINEER AND REGISTERED LANDSCAPE ARCHITECT OF DIPRETE ENGINEERING, SAID STAMP DOES NOT EXTEND TO ANY PORTION OF THE PROPRIETARY PRODUCT/ DETAIL BY OTHERS OR ITS DESIGN.

# **Americans with Disabilities Act Notes:**

- ALL IMPROVEMENTS MUST COMPLY WITH THE "AMERICANS WITH DISABILITIES ACT ACCESSIBILITY GUIDELINES (ADAAG)" BY THE DEPARTMENT OF JUSTICE (CURRENT
- 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 DIAGONAL), MUST BE LESS THAN OR EQUAL TO 2% (0.02 FT/FT). DIPRETE ENGINEERING GENERALLY RECOMMENDS A MAXIMUM OF 1.4% (0.014 FT/FT) BE USED FOR BOTH RUNNING AND CROSS SLOPES IN ORDER TO COMPLY.
- A MINIMUM 5'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). DIPRETE ENGINEERING GENERALLY RECOMMENDS A MAXIMUM OF 1.4% (0.014 FT/FT) BE USED FOR BOTH RUNNING AND CROSS SLOPES IN ORDER TO COMPLY.
- FOR EVERY 6 (OR FRACTION OF 6) ADA PARKING SPACES, AT LEAST ONE MUST BE A VAN PARKING SPACE. FOR EXAMPLE, IF 7 ADA PARKING SPACES ARE REQUIRED, A MINIMUM OF 2 MUST BE VAN SPACES.
- NOTWITHSTANDING THE NOTES LISTED ABOVE, TOWN OR STATE-SPECIFIC STANDARDS MAY BE MORE STRINGENT AND OVERRULE. IT IS THE RESPONSIBILITY OF THE USER OF THIS PLAN SET TO MAINTAIN COMPLIANCE WITH THE CONTROLLING STANDARD.
- NOTE THAT THE GRADING/ PLAN VIEWS AND DETAILS CONTAINED WITHIN THIS PLAN SET MAY NOT SHOW THE DETAIL NECESSARY TO CONSTRUCT WALKWAYS RAMPS AND SPACES TO COMPLY WITH THE ABOVE REQUIREMENTS. THE CONTRACTOR IS RESPONSIBLE TO PROVIDE THE LEVEL OF CARE NECESSARY TO BE CERTAIN THAT THE CONSTRUCTED PRODUCT MEETS ADA/ CONTROLLING STANDARDS. IN THE EVENT OF ANY NON COMPLIANCE THE CONTRACTOR MUST NOTIFY THE DESIGNER BEFORE CONSTRUCTION FOR ADVICE IN FINDING A RESOLUTION

# **Soil Erosion and Sedimentation Control Notes:**

- THE CONTRACTOR IS RESPONSIBLE FOR ALL SOIL EROSION AND SEDIMENT CONTROL ON SITE WHICH MUST BE CONSTRUCTED AND MAINTAINED IN ACCORDANCE WITH THE APPLICABLE REGULATIONS AND AUTHORITY HAVING JURISDICTION. THE CONTRACTOR IS TO NOTIFY THE DESIGN ENGINEER, THE DIRECTOR OF PUBLIC WORKS, THE TOWN ENGINEER, AND RHODE ISLAND DEPARTMENT OF ENVIRONMENTAL MANAGEMENT AT LEAST 48 HOURS PRIOR TO THE START OF CONSTRUCTION.
- ALL EROSION CONTROL INCLUDING (BUT NOT LIMITED TO) TEMPORARY SEDIMENT TRAPS, ETC. TO BE INSTALLED PER THE LATEST EDITION OF THE RHODE ISLAND SOIL EROSION AND SEDIMENTATION CONTROL (RISESC) HANDBOOK AND THE SOIL EROSION & SEDIMENTATION 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 DIPRETE ENGINEERING TO MEET THE OBJECTIVES OF THE RISESC HANDBOOK, BUT IS CONSIDERED A GUIDE ONLY. ADDITIONAL MEASURES/ ALTERNATE CONFIGURATIONS MAY BE REQUIRED IN ORDER TO MEET THE RISESC HANDBOOK BASED ON FACTORS INCLUDING (BUT NOT LIMITED TO) SITE PARAMETERS, WEATHER, INSPECTIONS AND UNIQUE FEATURES. THE SESC WILL CONTINUE TO EVOLVE THROUGHOUT CONSTRUCTION / PHASES. PURSUANT TO NOTE 1 ABOVE. SESC REMAINS THE RESPONSIBILITY OF THE CONTRACTOR UNTIL THE SITE IS FULLY STABILIZED AND/ OR SESC RESPONSIBILITIES ARE ASSUMED BY THE OWNER IN WRITING.
- DIVERSION BERMS ARE TO BE USED TO CONTROL RUNOFF DURING CONSTRUCTION OF THE PROPOSED SITE WORKS. TEMPORARY SWALES TO BE VEGETATED AFTER CONSTRUCTION. EROSION CONTROL MATS ARE TO 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 ARE TO BE CLEARED AND FINAL DESIGN, INCLUDING INSTALLATION OF THE GRASS SWALE TO BE PER THE DESIGN PLANS.
- ONCE THE SEDIMENT TRAP IS NO LONGER REQUIRED AND ALL TRIBUTARY AREAS HAVE BEEN STABILIZED, THE TEMPORARY SEDIMENTATION TRAP IS TO BE CLEANED AND BROUGHT TO FINAL DESIGN GRADES.
- INLET PROTECTION IS TO BE INSTALLED ON ALL CATCH BASINS ONCE CONSTRUCTED.
- FOR SEQUENCE OF CONSTRUCTION, PROJECT PHASING AND CONSTRUCTION PHASING 8. SEE SESC PLAN
- CONTRACTOR MAY MODIFY SEQUENCE OF CONSTRUCTION WITH APPROVAL FROM DESIGN ENGINEER AND OWNER.
- IF CONCRETE TRUCKS ARE WASHED OUT ON SITE, ALL WASHOUT MUST BE COMPLETED IN THE DESIGNATED CONCRETE WASHOUT AREA.

## **Demolition Notes:**

- CONTRACTOR TO OBTAIN ALL FEDERAL, STATE, AND MUNICIPAL APPROVALS PRIOR TO THE START OF CONSTRUCTION.
- CONTRACTOR TO PERFORM DAILY SWEEPING AT CONSTRUCTION ENTRANCE DURING DEMOLITION AND CONSTRUCTION TO MINIMIZE SEDIMENTS ON EXTERNAL STREETS.
- ANY EXISTING BUILDING(S) AND PROPERTY PROPOSED TO REMAIN WHICH 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 HERE IN. R&D MATERIALS MUST INCLUDE BUT ARE NOT LIMITED TO PAVEMENT, GRAVEL, CATCH BASINS, MANHOLES, GRATES/FRAMES/COVERS, AND ANY EXCESS SOIL THAT IS NOT INCORPORATED INTO THE WORK.
- IN ADDITION TO THOSE AREAS SPECIFICALLY DESIGNATED ON THE PLANS, ALL DISTURBED AREAS INCLUDING THE CONTRACTOR'S STOCKPILE AND STAGING AREAS WITHIN THE LIMIT OF WORK MUST BE RESTORED TO MATCH THE DESIGN PLANS.
- CONTRACTOR MUST DOCUMENT LOCATION OF ALL SUBSURFACE UTILITIES REMAINING IN PLACE AFTER DEMOLITION (ACTIVE AND INACTIVE / ABANDONED), LOCATION MUST BE DOCUMENTED BY FIELD SURVEY OR SWING TIES. COPIES OF LOCATION DOCUMENTATION MUST BE PROVIDED TO THE OWNER FOLLOWING COMPLETION OF DEMOLITION AND PRIOR TO START OF NEW CONSTRUCTION. A MARKER MUST BE INSTALLED TO FINISH GROUND AT ALL INSTALLED CAPS/PLUGS. THE MARKER CAN BE A POST IN CONSTRUCTION AREAS OR PAINTED ON A PERMANENT SURFACE.

# Traffic Notes:

- ALL TRAFFIC CONTROL MUST CONFORM TO THE FEDERAL HIGHWAY ADMINISTRATION (FHWA) MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD) CURRENT
- DURING CONSTRUCTION, TRAFFIC CONES ARE TO BE USED FOR SEPARATION OF ACTIVE TRAFFIC FROM WORK ZONE PER MUTCD REQUIREMENTS.
- 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 MANUAL ON UNIFORM TRAFFIC (MUTCD) LATEST EDITION AND SUBSEQUENT ADDENDA.
- 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 AS-BUILT PRIOR TO COVERING. ENGINEER TO BE NOTIFIED PRIOR TO COVERING TO SURVEY AS-BUILT LOCATIONS. ENGINEER WILL NOT ACCEPT FIELD MEASUREMENTS FROM THE SITE CONTRACTOR.

# **RIDOT Notes:**

- ALL WORK TO BE DONE WITHIN THE STATE RIGHT OF WAY MUST CONFORM TO RHODE ISLAND STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION AMENDED MARCH 2018 WITH ALL REVISIONS AND ADDENDA. STANDARD DETAILS FOR THIS WORK ARE RHODE ISLAND STANDARD DETAILS DATED JUNE 21, 2019 WITH ALL REVISIONS.
- CONTRACTOR MUST OBTAIN A UTILITY CONNECTION PERMIT FOR WORK WITHIN THE STATE ROW PRIOR TO CONSTRUCTION. THE PAPA IS NOT A SUBSTITUTE FOR THE UTILITY PERMIT AND THE PAPA DOES NOT CONSTITUTE AN APPROVAL OF ANY UTILITY WORK.
- ALL TRAFFIC CONTROL MUST CONFORM TO THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES, LATEST EDITION, INCLUDING ALL REVISIONS.
- RIGHT OF WAY DURING PEAK TRAFFIC HOURS. SEWER AND WATER CONNECTIONS WITHIN THE STATE RIGHT OF WAY WILL REQUIRE A SEPARATE RIDOT UTILITY PERMIT. CONTRACTOR TO OBTAIN BEFORE

NO LANE OR SHOULDER CLOSURES MUST BE PERFORMED WITHIN THE STATE'S

THE DRAINAGE SYSTEM IS DESIGNED TO DECREASE BOTH STORMWATER RUNOFF RATE DISCHARGE, AND STORMWATER RUNOFF VOLUME TO THE STATE RIGHT OF WAY FROM PRE-DEVELOPMENT TO POST-DEVELOPMENT. THERE WILL BE NO INCREASE IN

RUNOFF TO THE STATE RIGHT OF WAY FROM THE PROPOSED DEVELOPMENT

WORK WITHIN THE STATE'S ROW WILL CONFORM TO PROWAG. WORK ONSITE WILL

CONFORM TO ADAAG UNLESS THE WORK IS IN STATE OWNED LAND.

## **Grading and Utility Notes:**

- CONSTRUCTION TO COMMENCE FALL 2021 OR UPON RECEIPT OF ALL NECESSARY
- THE CONTRACTOR MUST COORDINATE WITH ALL OF THE APPROPRIATE UTILITY COMPANIES FOR AGREEMENTS TO SERVICE THE PROPOSED BUILDING. THIS MUST BE DONE PRIOR TO CONSTRUCTION. NO REPRESENTATIONS ARE MADE BY DIPRETE ENGINEERING THAT UTILITY SERVICE IS AVAILABLE
- THE CONTRACTOR IS RESPONSIBLE FOR DETERMINING FINISH GRADING AND DRAINAGE AROUND THE BUILDING TO ENSURE SURFACE WATER AND/OR GROUNDWATER ARE DIRECTED AWAY FROM THE STRUCTURE.
- PRIOR TO START OF CONSTRUCTION, CONTRACTOR MUST VERIFY EXISTING PAVEMENT ELEVATIONS AT INTERFACE WITH PROPOSED PAVEMENTS, AND EXISTING GROUND ELEVATIONS ADJACENT TO DRAINAGE OUTLETS TO ASSURE PROPER TRANSITIONS BETWEEN EXISTING AND PROPOSED FACILITIES. CONTRACTOR MUST NOTIFY DESIGN ENGINEER OF ANY DISCREPANCIES PRIOR TO CONSTRUCTION.
- ALL PROPOSED UNDERGROUND UTILITIES SERVING THE SITE AND BUILDINGS TO BE COORDINATED WITH OWNER, ARCHITECT, AND ENGINEER PRIOR TO INSTALLATION.
- ALL RETAINING WALLS AND STEEP SLOPES ARE SUBJECT TO FINAL STRUCTURAL DESIGN. DIPRETE ENGINEERING IS NOT PROVIDING THE STRUCTURAL DESIGN OF THESE ITEMS. ALL WALLS AND STEEP SLOPES ARE TO 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 TO BE SUBMITTED PRIOR TO CONSTRUCTION. FINAL STRUCTURAL DESIGN MUST INCORPORATE THE INTENT OF THE GRADING SHOWN ON THESE PLANS AND ALL WORK MUST BE WITHIN THE LIMIT OF DISTURBANCE SHOWN ON THE PLANS.
- ALL CUT AND FILL AREAS ARE TO BE DONE UNDER THE DIRECTION OF A PROFESSIONAL GEOTECHNICAL ENGINEER WITH TESTING AND CERTIFICATION TO BE PROVIDED TO THE APPLICANT 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.
- NO STOCKPILING OF MATERIAL TO BE LOCATED IN THE RIGHT OF WAY AND NO OPEN TRENCHES ARE TO BE LEFT OVERNIGHT.
- ALL LOAM IN DISTURBED AREAS TO BE STOCKPILED FOR FUTURE USE. ALL STOCKPILED LOAM MUST BE REUSED ON SITE.
- ALL EXCESS SOIL, TREES, ROCKS, BOULDERS, AND OTHER REFUSE, MUST BE DISCARDED OFF SITE IN AN ACCEPTABLE MANNER AT AN APPROVED LOCATION. STUMPS MUST BE GROUND ON SITE OR REMOVED.
- THE SITE WILL HAVE 6" CONCRETE CURBING. SITE GRADING/CONTOURS SHOWN ON THE PLANS DO NOT NECESSARILY REFLECT THE APPROPRIATE CURBING REVEAL. CONTRACTOR TO INSTALL CURBING WITH APPROPRIATE REVEAL UNLESS OTHERWISE
- 12. NO STUMP DUMPS ARE PROPOSED ON SITE.

ALL DRAINAGE PIPING TO BE HIGH-DENSITY POLYETHYLENE (HDPE) WITH WATERTIGHT JOINTS WHERE INSTALLED WITHIN THE SEASONAL HIGH GROUNDWATER, UNLESS NOTED OTHERWISE ON THE PLANS OR IN THE SPECIFICATIONS. ALL STORMWATER PIPE WITHIN THE STATE'S RIGHT OF WAY TO BE REINFORCED CONCRETE PIPE (RCP) PIPE.

- DRAINAGE STRUCTURES TO BE AS FOLLOWS (UNLESS OTHERWISE NOTED ON PLANS): • CATCH BASINS ALONG CURBING TO BE RIDOT STD. 4.4.0, TYPE F FRAME, 4'
- DIAMETER WITH APRON STONE.
- CATCH BASINS NOT ALONG CURBING TO BE RIDOT STD 4.4.0, 4' DIAMETER • CATCH BASINS TO HAVE 3' SUMPS WITHOUT WEEPHOLES.
- SINGLE FRAME CATCHBASIN GRATES TO BE RIDOT STD. 6.3.2
- MANHOLES TO BE RIDOT STD. 4.2.0, 4.2.1 OR 4.2.2 AS REQUIRED • DRAINAGE MANHOLE COVERS TO BE RIDOT STD 6.2.1
- APRON STONE, WHERE REQUIRED, TO BE RIDOT STD 7.1.7 OR 7.1.8.
- ALL DRAINAGE STRUCTURES MUST BE WATERTIGHT AND VAPOR TIGHT

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

ALL WATER MAINS TO BE CONCRETE LINED DUCTILE IRON PIPE (CLDIP). ALL WATER MAIN IMPROVEMENTS MUST COMPLY WITH KENT COUNTY WATER AUTHORITY 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 BACKFLOWS. ALL COMPONENTS OF THE WATER SYSTEM TO BE ASBUILT PER KENT COUNTY WATER AUTHORITY REQUIREMENTS. ALL COMPONENTS OF THE WATER SYSTEM TO BE INSPECTED BY KENT COUNTY WATER AUTHORITY. CONTRACTOR TO COORDINATE ALL IMPROVEMENTS WITH KENT COUNTY WATER AUTHORITY TO ENSURE INSPECTOR IS ON SITE.

# ELECTRIC/TELECOM/GAS

PROPOSED GAS, ELECTRIC, CABLE AND DATA UTILITIES ARE SHOWN SCHEMATICALLY AND ARE PROPOSED TO BE UNDERGROUND. OWNER & CONTRACTOR TO COORDINATE FINAL DESIGN WITH APPROPRIATE UTILITY COMPANIES. ALL WORK TO 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 WILL BE COORDINATED WITH NATIONAL GRID PRIOR TO CONSTRUCTION.

# SITE LIGHTING

SITE LIGHTING (TEMPORARY AND PERMANENT) MUST BE DIRECTED AWAY FROM AND SHIELDED FROM ENVIRONMENTALLY SENSITIVE AREAS AND ABUTTING LANDS. EXACT LOCATIONS OF LIGHT POLE TO BE COORDINATED WITH OTHER UTILITIES AND TO BE LOCATED WITHIN THE STREET RIGHTS OF WAY. FINAL LIGHTING AND CONDUIT LOCATIONS BY OTHERS.

# **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)

# DESCRIPTION

- BRIDGEHAMPTON SILT LOAM, TILL SUBSTRATUM, 3 TO 8 PERCENT SLOPES BRIDGEHAMPTON-CHARLTON COMPLEX, VERY STONY, 0 TO 8 PERCENT
- CANTON AND CHARLTON VERY STONY FINE SANDY LOAMS, 3 TO 8 PERCENT SLOPES UDORTHENTS-URBAN LAND COMPLEX
- \*\*FARMLAND OF STATEWIDE IMPORTANCE

# **UIC Notes:**

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

- 400 FEET FROM ALL PUBLIC WATER WELLS (SAND & GRAVEL)
- 200 FEET FROM ALL PUBLIC WATER WELLS (BEDROCK)
- 200 FEET FROM ALL SURFACE DRINKING WATER SUPPLY IMPOUNDMENTS 100 FEET FROM ALL PRIVATE DRINKING WATER WELLS
- 100 FEET FROM ALL OTHER SURFACE WATERS
- 25 FEET FROM ALL OWTS & OTHER GROUNDWATER DISCHARGE SYSTEMS 25 FEET FROM ALL BUILDING(S) FOUNDATIONS IF SYSTEM IS ABOVE SLAB
- ELEVATION. 10 FEET FROM ALL BUILDING(S) IF SYSTEM IS BELOW SLAB ELEVATION 10 FEET FROM ALL PROPERTY LINES 10 FEET FROM ALL BUILDING FOOTINGS

# Layout and Materials:

- DIMENSIONS ARE FROM THE FACE OF CURB, FACE OF BUILDING, FACE OF WALL, AND CENTER LINE OF PAVEMENT MARKINGS, UNLESS OTHERWISE NOTED.
- CURBING TO BE SLOPED GRANITE OR AS LABELED ON THE PLANS.

COMPACTOR PAD, LOADING DOCKS, BOLLARDS, ETC.

SIDEWALKS TO BE EXPOSED AGGREGATE CONCRETE OR AS LABELED ON THE PLANS. SYMBOLS AND LEGENDS OF PROJECT FEATURES ARE GRAPHIC REPRESENTATIONS

AND ARE NOT NECESSARILY SCALED TO THEIR ACTUAL DIMENSIONS OR LOCATIONS

ON THE DRAWINGS. THE CONTRACTOR MUST REFER TO THE DETAIL SHEET

- DIMENSIONS, MANUFACTURERS' LITERATURE, SHOP DRAWINGS AND FIELD MEASUREMENTS OF SUPPLIED PRODUCTS FOR LAYOUT OF THE PROJECT FEATURES. SEE ARCHITECTURAL DRAWINGS FOR EXACT BUILDING DIMENSIONS AND DETAILS CONTIGUOUS TO THE BUILDING, INCLUDING SIDEWALKS, RAMPS, BUILDING
- PROPOSED BOUNDS AND ANY EXISTING PROPERTY LINE MONUMENTATION DISTURBED DURING CONSTRUCTION MUST BE SET OR RESET BY A PROFESSIONAL LICENSED SURVEYOR.

ENTRANCES, STAIRWAYS, UTILITY PENETRATIONS, CONCRETE DOOR PADS,

- CONTRACTOR MUST NOT RELY SOLELY ON ELECTRONIC VERSIONS OF PLANS, SPECIFICATIONS, AND DATA FILES THAT ARE OBTAINED FROM THE DESIGNERS. CONTRACTOR MUST VERIFY LOCATION OF PROJECT FEATURES IN ACCORDANCE WITH THE STAMPED PAPER COPIES OF THE PLANS AND SPECIFICATIONS THAT ARE SUPPLIED AS PART OF THE CONTRACT DOCUMENTS.
- ALL GUARDRAIL ON SITE MUST BE STEEL BACKED TIMBER GUARDRAIL WITH STEEL POSTS, IN CONFORMANCE WITH SECTION 5.4.1.7 OF THE AASHTO ROADSIDE DESIGN GUIDE. ALTERNATIVE GUARDRAILS WILL BE CONSIDERED BY THE DESIGN ENGINEER IF THEY ARE DOT APPROVED EQUAL AND ACCEPTABLE TO THE OWNER. ALTERNATIVES MUST BE APPROVED IN WRITING BY THE OWNER AND DESIGN ENGINEER PRIOR TO CONSTRUCTION.
- ALL PAINTED STRIPING SHALL BE APPLIED IN TWO COATS THE FIRST COAT TO BE APPLIED AFTER PAVING HAS BEEN COMPLETED. THE SECOND COAT SHALL BE APPLIED 7 DAYS LATER.

### Abbreviations Legend AMERICANS WITH DISABILITY ACT OHW OVERHEAD WIRE AUTHORITY HAVING JURISDICTION PE POLYETHYLENE PL PROPERTY LINE ASSESSOR'S PLAT PR PROPOSED BOTTOM OF CURB PVC POLYVINYL CHLORIDE BT BOTTOM OF TESTHOLE BITUMINOUS (BERM) R RADIUS BIO BIORETENTION R&D REMOVE AND DISPOSE RCP REINFORCED CONCRETE PIPE BASEMENT SLAB ELEVATION BW FINISHED GRADE AT BOTTOM OF WALL RIHB RHODE ISLAND HIGHWAY BOUND CB CATCH BASIN CALCULATED RL ROOF LEADER CENTERLINE ROW RIGHT-OF-WAY CHORD ANGLE S SLOPE CONCRETE LINED DUCTILE IRON PIPE SD SUBDRAIN

- SED SEDIMENT FOREBAY CO CLEAN OUT SF SQUARE FOOT CONC CONCRETE (D) DEED SFL STATE FREEWAY LINE SFM SEWER FORCE MAIN DCB DOUBLE CATCH BASIN DI DROP INLET SG SLAB ON GRADE ELEVATION DMH DRAINAGE MANHOLE SHL STATE HIGHWAY LINE
- SMH SEWER MANHOLE DETENTION POND ELEV ELEVATION SNDF SAND FILTER EOP EDGE OF PAVEMENT SS SIDE SLOPE

GRADE AT TOP OF WALL)

DETENTION SYSTEM

INFILTRATION SYSTEM

TYP TYPICAL

UDS UNDERGROUND

UIS UNDERGROUND

UP UTILITY POLE

WQ WATER QUALITY

WO WALKOUT ELEVATION

- ESC EROSION AND SEDIMENT CONTROL STA STATION TC TOP OF CURB EX EXISTING FES FLARED END SECTION TD TRENCH DRAIN TF TOP OF FOUNDATION
- FFE FINISH FLOOR ELEVATION GS GARAGE SLAB ELEVATION TRANS TRANSITION GROUND WATER TABLE TW TOP OF WALL (FINISHED HW HEADWALL
- HC HIGH CAPACITY CATCH BASIN GRATE HDPE HIGH DENSITY POLYETHYLENE ID INLINE DRAIN
- INV INVERT IP INFILTRATION POND
- LF LINEAR FEET LOD LIMIT OF DISTURBANCE

(7.3.0) RIDOT STD GRANITE CURB

- LP LIGHT POLE (M) MEASURED N/F NOW OR FORMERLY
- Site Callouts Legend
- (7.3.1) RIDOT STD 3' GRANITE TRANSITION CURB

(7.5.1) RIDOT STD BITUMINOUS ASPHALT BERM

- 7.3.8) RIDOT STD GRANITE APRON STONE
- (20.1.0) PAVEMENT MARKINGS ARROWS AND ONLY (4DY) 4" EPOXY RESIN PAVEMENT MARKINGS- DOUBLE YELLOW
- (4W) 4" PAINTED WHITE MARKINGS (4W45) 4" WHITE STRIPING 2' ON CENTER AT 45°
- (6WS) 6" WHITE EPOXY RESIN PAVEMENT MARKINGS-SKIP PATTERN ( 6W ) 6" WHITE EPOXY RESIN PAVEMENT MARKINGS
- (12W) STOP LINE (REFERENCE MUTCD SECTION 3B.16) (ADAS) ADA SPACE PAVEMENT MARKINGS MUST COMPLY WITH ALL ADA AND MUTCD REGULATIONS AND REQUIREMENTS.
- (ADAR) ADA CURB RAMP MUST COMPLY WITH ALL ADA REGULATIONS AND REQUIREMENTS. (ADAV) VAN ADA SPACE PAVEMENT MARKINGS MUST COMPLY WITH  $ec{\mathcal{D}}$  ALL ADA AND MUTCD REGULATIONS AND REQUIREMENTS.

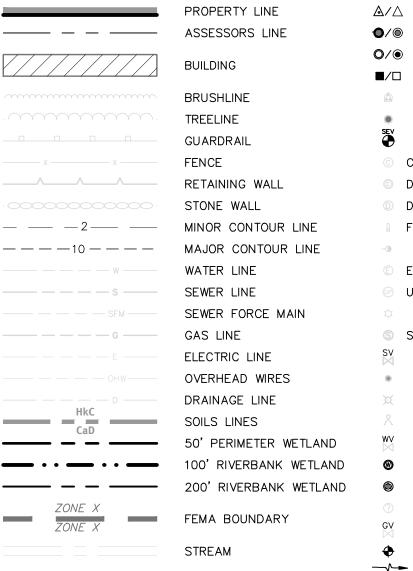
CROSSWALK PAVEMENT MARKINGS. SOLID 2' WHITE LINES

SPACED 4' OC (REFERENCE MUTCD SECTION 3B.18)

YIELD LINE (REFERENCE MUTCD SECTION 3B.16)

**Existing Legend** 

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



WETLAND LINE & FLAC

PROPERTY LINE

CHAINLINK FENCE

RETAINING WALL

BUILDING OVERHANG

ASPHALT PAVEMENT

ASPHALT PAVEMENT

HEAVY DUTY CONCRETE

SIGN (RIDOT STD 24.6.2

BUILDING INGRESS/EGRESS

GUARDRAIL SEE LAYOU'

------ STATE FREEWAY LINE

NOT ALL ITEMS SHOWN WILL APPEAR ON PLANS

— — BUILDING SETBACKS

Proposed Legend

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**Utility Note:** 

MEMBER UTILITIES ARE IN THE AREA.

BOUND FOUND/SET SIGN BOLLARD SOIL EVALUATION CB CATCH BASIN DCB DOUBLE CATCH BASIN DRAINAGE MANHOLE FES FLARED END SECTION GUY POLE EMH ELECTRIC MANHOLE UP UTILITY/POWER POLE LIGHTPOST SEWER/SEPTIC MANHOLE S SMH SEWER VALVE CLEANOUT HYDRANT IRRIGATION VALVE WATER VALVE WELL MONITORING WELL UNKNOWN MANHOLE GAS VALVE BENCH MARK

NAIL FOUND/SET

DRILL HOLE FOUND/SET

bo

JASON P. CLOUGH

REGISTERED

PROFESSIONAL ENGINEER CIVIL

DRAINAGE LINE PERFORATED SUBDRAIN  $-- \rightarrow -- \rightarrow -- \rightarrow -- \rightarrow -$  SWALE SEWER FORCE MAIN AND MATERIALS NOTE 8. GAS LINE WATER LINE HYDRANT ASSEMBLY WATER SHUT OFF WATER VALVE  $\longrightarrow$ THRUST BLOCK SEWER LINE \_\_\_\_\_s \_\_\_\_

STREAM FLOW DIRECTION

MINOR CONTOUR LINE MAJOR CONTOUR LINE SPOT ELEVATION EDGE OF PAVEMENT OVERHEAD WIRE BITUMINOUS BERM ELECTRIC, TELEPHONE, CABLE LINE CONCRETE CURB LIMIT OF DISTURBANCE/ (RIDOT STD 7.1.0) LIMIT OF CLEARING SEDIMENTATION BARRIER, BUILDING FOOTPRINT SILT FENCE (RIDOT STD

~~

SLOPES STEEPER THAN 3: <del>>>>>>>></del> (2:1 OR 1:1 SLOPES) UNDERGROUND INFILTRATION OUTLINE

CONCRETE ASPHALT SIDEWALK SAWCUT LINE

AS APPLICABLE) SINGLE LIGHT DOUBLE LIGHT OVERHANGING LIGHT

ACCESSIBLE PARKING SPACE SYMBOLS

POND ACCESS SAND FILTER **BIO RETENTION** CATCH BASIN DOUBLE CATCH BASIN

MANHOLE

HEADWALL

9.2.0), COMPOST SOCK OR

APPROVED EQUAL

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, MUST BE CONTACTED INCLUDING THOSE IN CONTROL OF UTILITIES NOT SHOWN ON THESE DOCUMENTS. CONTACT DIG 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. S IT IS THE CONTRACTOR'S RESPONSIBILITY TO INVESTIGATE AND NOTIFY IF ANY PRIVATELY OWNED OR NON DIG SAFE PER THE CODE OF FEDERAL REGULATIONS - TITLE 29, PART 1926 IT IS THE SITE CONTRACTOR'S RESPONSIBILITY TO

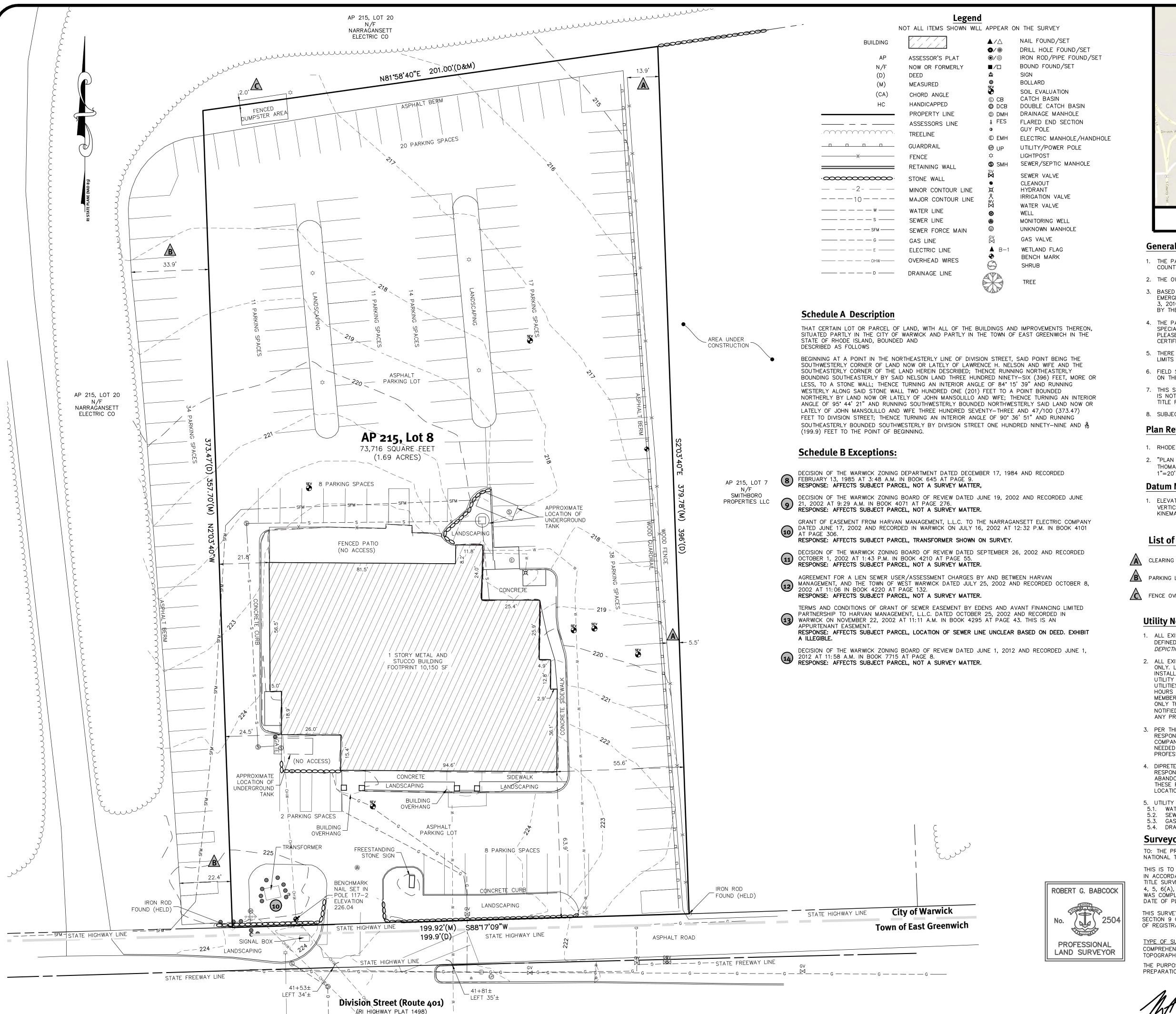
OBTAIN ACCURATE UNDERGROUND UTILITY LINE LOCATIONS FROM THE UTILITY COMPANIES. UTILITY OWNERS AND. OR VIA UNDERGROUND UTILITY LOCATION EQUIPMENT AS NEEDED TO ESTABLISH ACCURATE LOCATIONS PRIOR TO ANY EXCAVATION. THE USE OF PROFESSIONAL UTILITY LOCATING COMPANIES PRIOR TO ANY EXCAVATION IS RECOMMENDED. 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 ASSUMES NO RESPONSIBILITY FOR DAMAGES INCURRED.

GRADING, PAVEMENT RESTORATION, AND ALL OTHER SITE WORK. ALL UTILITY COMPANIES, PUBLIC AND PRIVATE,

SAFE A MINIMUM OF 72 WORKING HOURS PRIOR TO ANY CONSTRUCTION AT 811. DIG SAFE IS RESPONSIBLE FOR

FLARED END SECTION





# **General Notes**

- 1. THE PARCEL IS FOUND ON ASSESSOR'S PLAT 215, LOT 8 IN THE CITY OF WARWICK, KENT COUNTY, RHODE ISLAND.
- 2. THE OWNER PER DEED BOOK 6529, PAGE 130 IS JT DEVELOPMENT PARTNERS, LLC.
- 3. BASED ON GRAPHICAL PLOTTING ONLY, THE PARCEL IS LOCATED IN ZONE X PER FEDERAL EMERGENCY MANAGEMENT AGENCY FLOOD INSURANCE RATE MAP 44003C0136G, DATED DECEMBER 3. 2010. THIS DESIGNATION MAY CHANGE BASED UPON REVIEW BY A FLOOD ZONE SPECIALIST OR BY THE RESULTS OF A COMPREHENSIVE FLOOD STUDY.
- 4. THE PARCEL IS ZONED GB BASED ON THE CITY OF WARWICK'S GIS MAP. ANY OVERLAY DISTRICTS, SPECIAL PERMITS OR VARIANCES SPECIFIC TO THIS SITE ARE NOT TAKEN INTO CONSIDERATION. PLEASE CONTACT THE ZONING DEPARTMENT FOR ANY ADDITIONAL INFORMATION OR FOR A CERTIFICATE OF ZONING.
- 5. THERE WERE NO CEMETERIES, GRAVE SITES AND OR BURIAL GROUNDS OBSERVED WITHIN THE LIMITS OF THE SURVEY.
- 6. FIELD SURVEY PERFORMED BY DIPRETE ENGINEERING ON OCTOBER 23, 2020. THIS PLAN REFLECTS ON THE GROUND CONDITIONS AS OF THAT DATE.
- 7. 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 TITLE REPORT WOULD DISCLOSE.
- 8. SUBJECT TO ELECTRICAL EASEMENT FOUND IN DEED BOOK 4101, PAGE 306

# **Plan References:**

- 1. RHODE ISLAND HIGHWAY PLAT 1498
- 2. "PLAN OF SURVEY LOT 8 ON AP 215, DIVISION STREET, WARWICK RI FOR THE FOOD SERVICE. THOMAS WRIGHT" BY: DAVID D. GARDNER & ASSOCIATES, INC. DATED MARCH 19, 2007. SCALE

## **Datum Note:**

1. 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.

# **List of Possible Encroachments:**

CLEARING AND CONSTRUCTION OVER PROPERTY LINE

PARKING LOT OVER PROPERTY LINE

FENCE OVER PROPERTY LINE

# **Utility Notes**

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

5. UTILITY PLAN REFERENCES 5.1. WATER INFORMATION OBTAINED FROM KCWA ASBUILT PLAN.

5.2. SEWER INFORMATION OBTAINED FROM CITY OF WARWICK ASBUILT PLAN.

GAS INFORMATION OBTAINED FROM ON GROUND PAINT MARKINGS 5.4. DRAINAGE INFORMATION OBTAINED ON THE GROUND BY DIPRETE ENGINEERING.

# **Surveyor's Certificate**

TO: THE PROCACCIANTI GROUP, LLC, A RHODE ISLAND LIMITED LIABILITY COMPANY, & FIDELITY NATIONAL TITLE INSURANCE COMPANY

THIS IS TO CERTIFY THAT THIS MAP OR PLAT AND THE SURVEY ON WHICH IT IS BASED WERE MADE IN ACCORDANCE WITH THE 2016 MINIMUM STANDARD DETAIL REQUIREMENTS FOR ALTA/NSPS LAND TITLE SURVEYS, JOINTLY ESTABLISHED AND ADOPTED BY ALTA AND NSPS, AND INCLUDES ITEMS 2, 3, 4, 5, 6(A), 7(A), 7(B)(1), 7(C), 8, 9, 10, 11, 13, 16, & 17 OF TABLE A THEREOF. THE FIELD WORK WAS COMPLETED BETWEEN OCTOBER 23, 2020 DATE OF PLAT OR MAP: NOVEMBER 19, 2020

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

TYPE OF SURVEY MEASUREMENT SPECIFICATION COMPREHENSIVE BOUNDARY SURVEY CLASS I

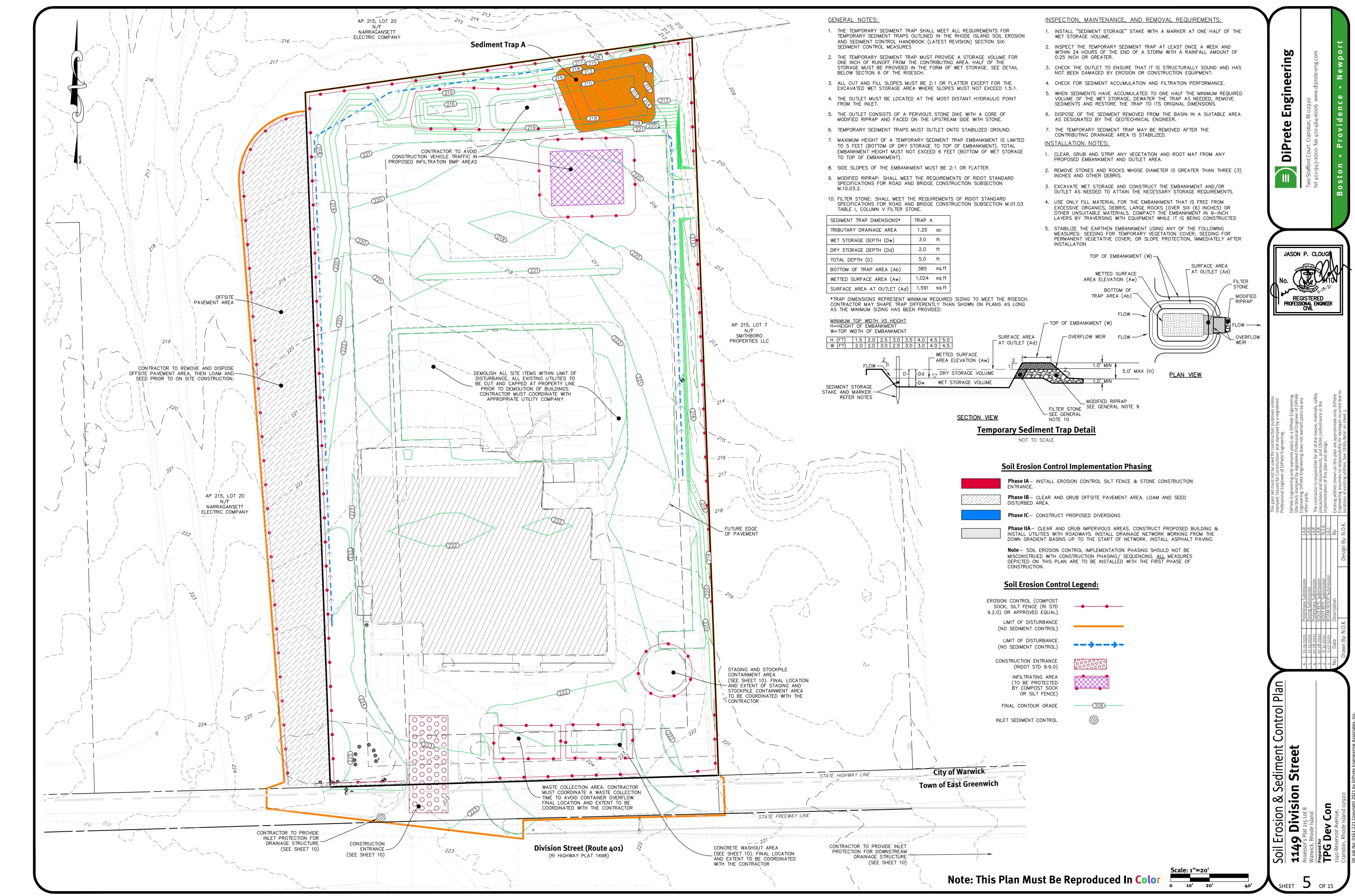
CLASS T-2 TOPOGRAPHIC SURVEY THE PURPOSE FOR THE CONDUCT OF THE SURVEY AND FOR THE PREPARATION OF THE PLAN IS AS FOLLOWS: ALTA SURVEY.

12/16/20 ROBERT G. BABCOCK, RIPLS #2504, COA #LS.000A160

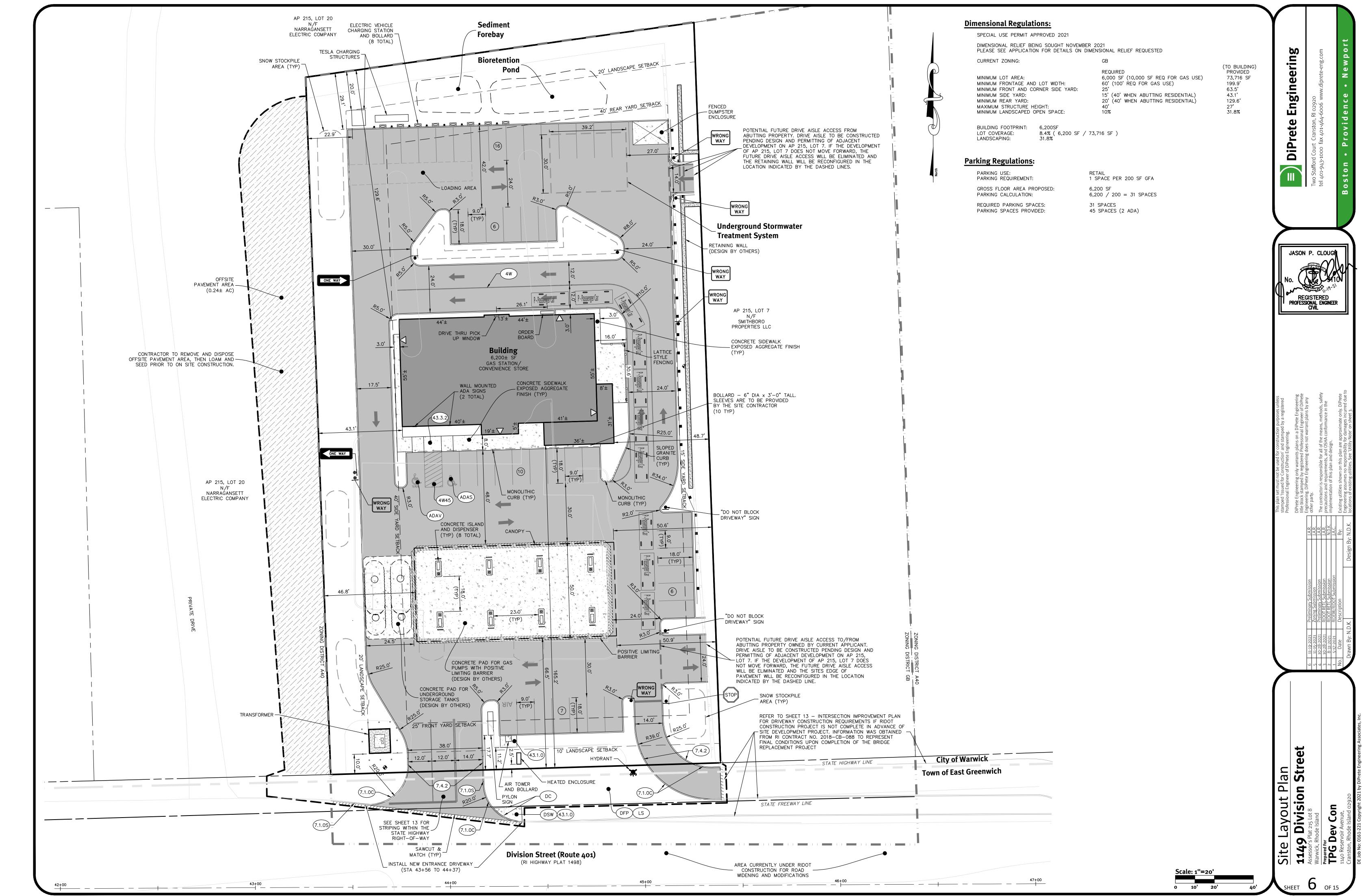
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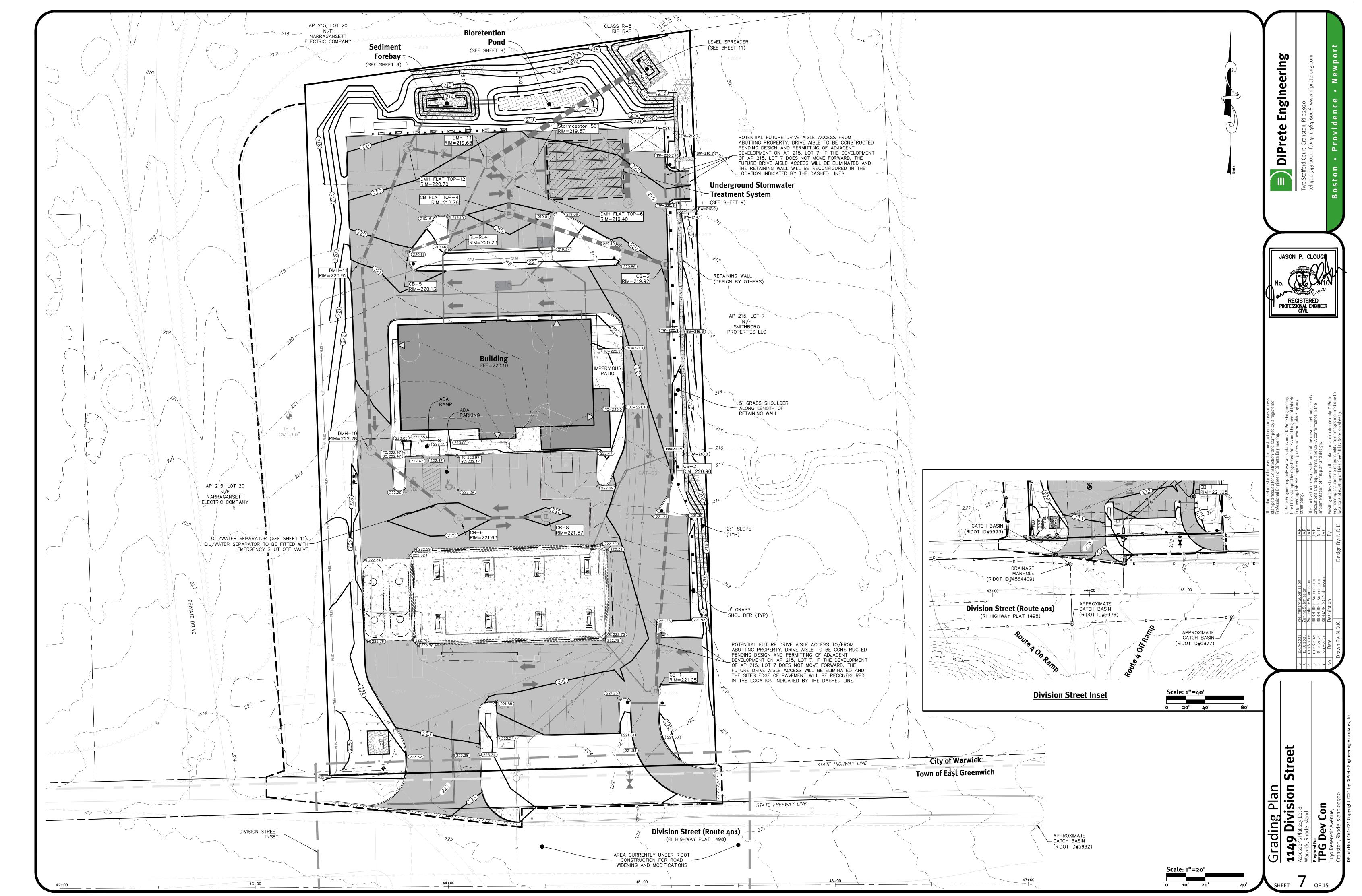
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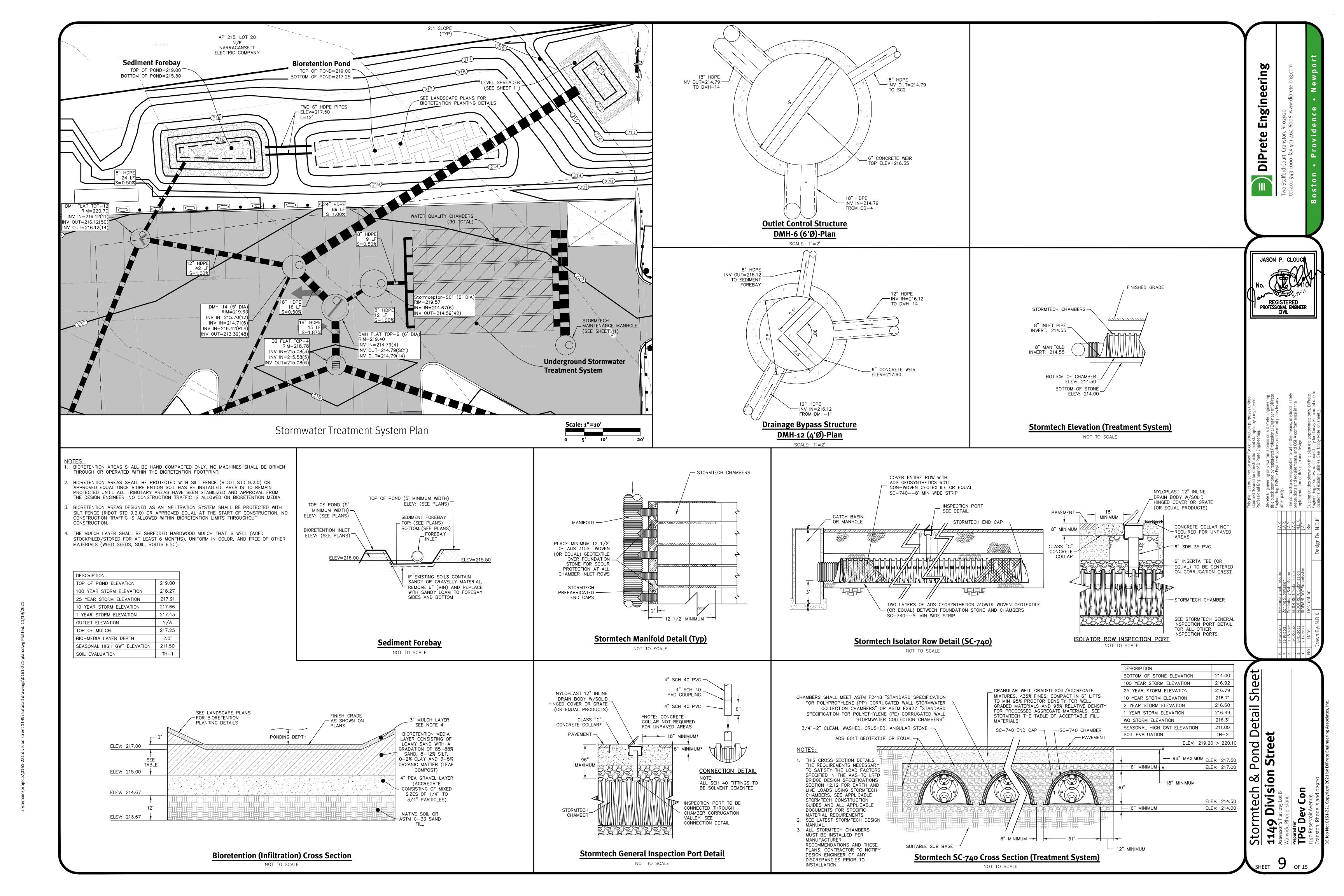


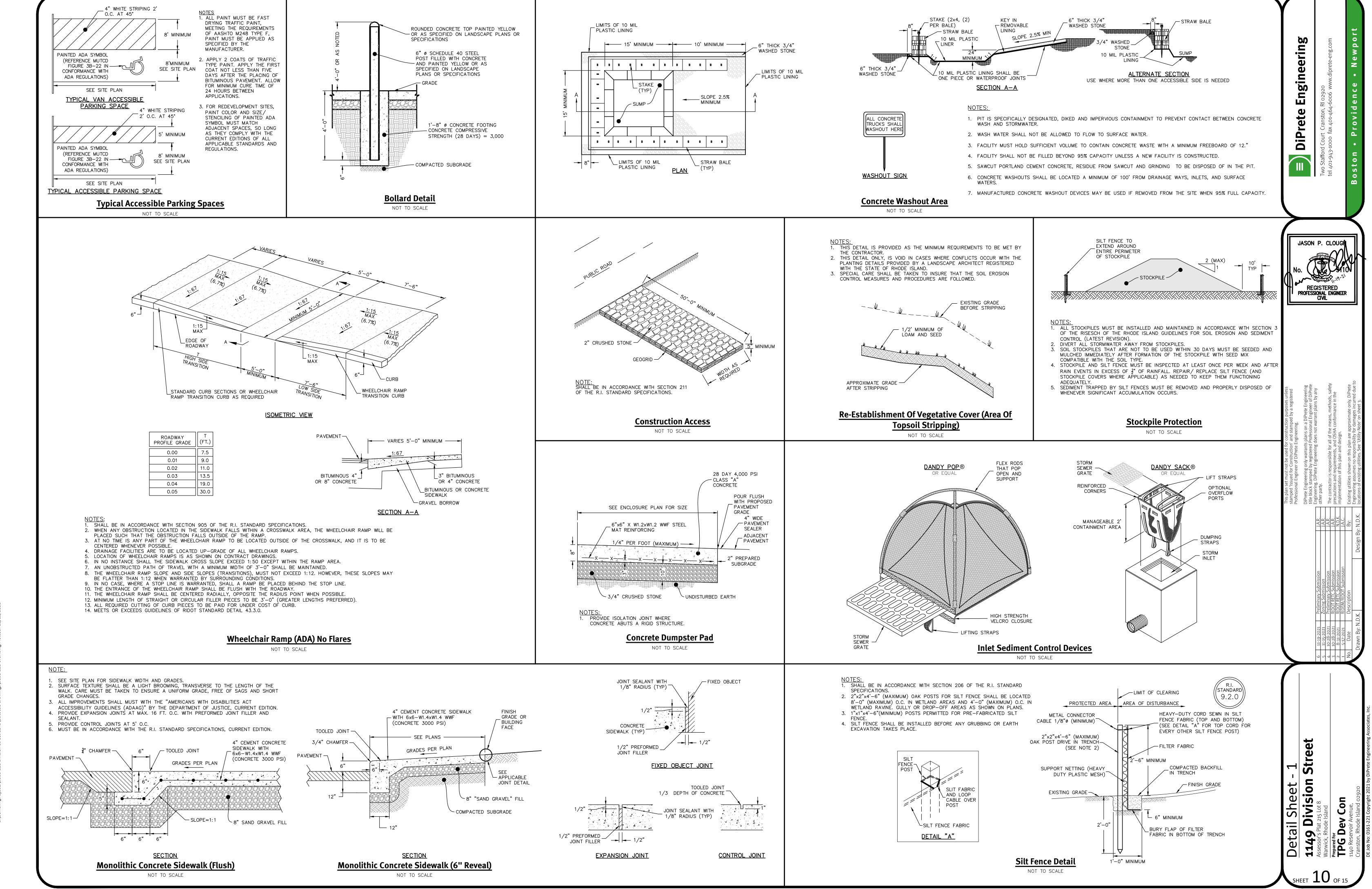
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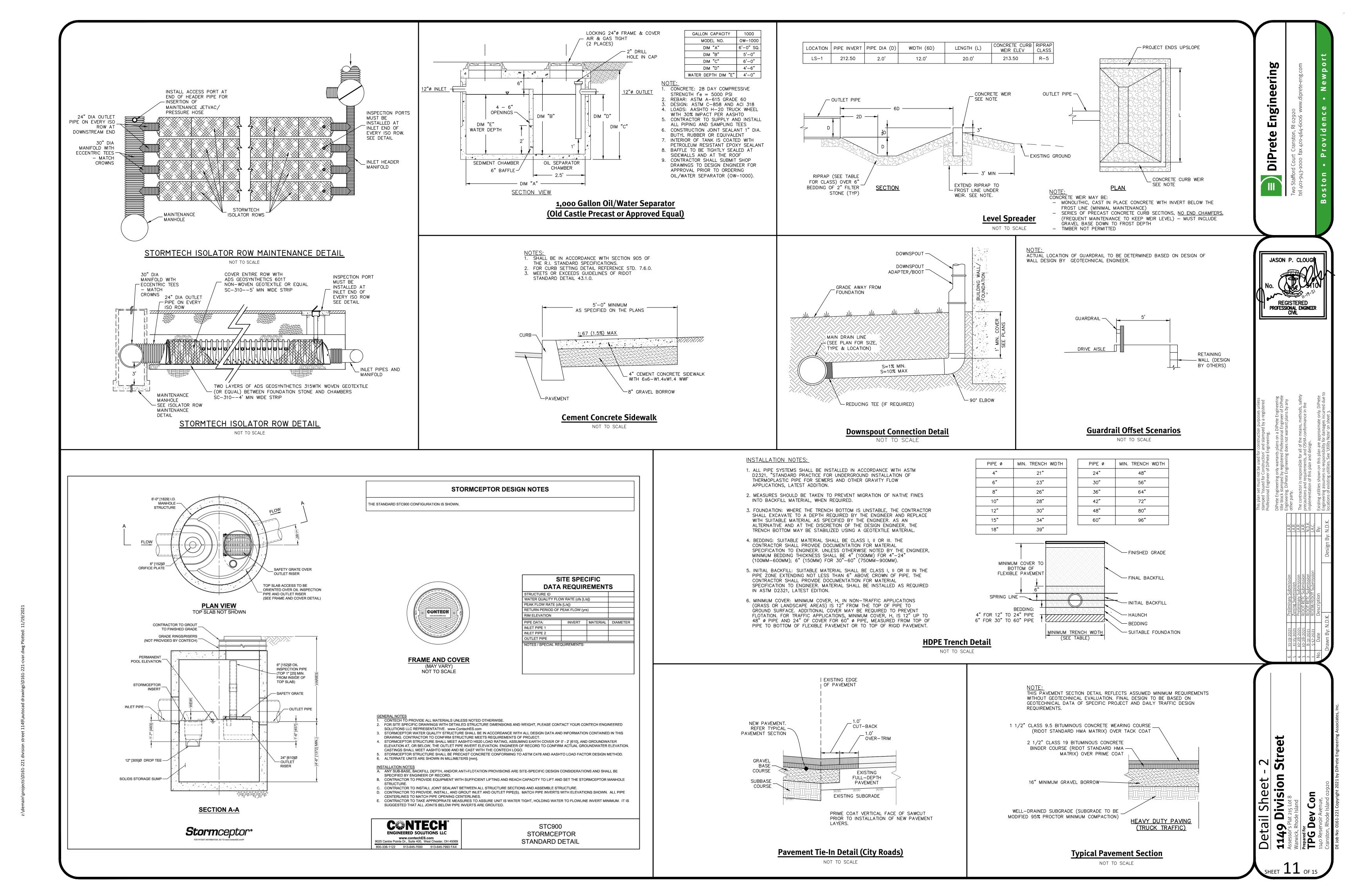
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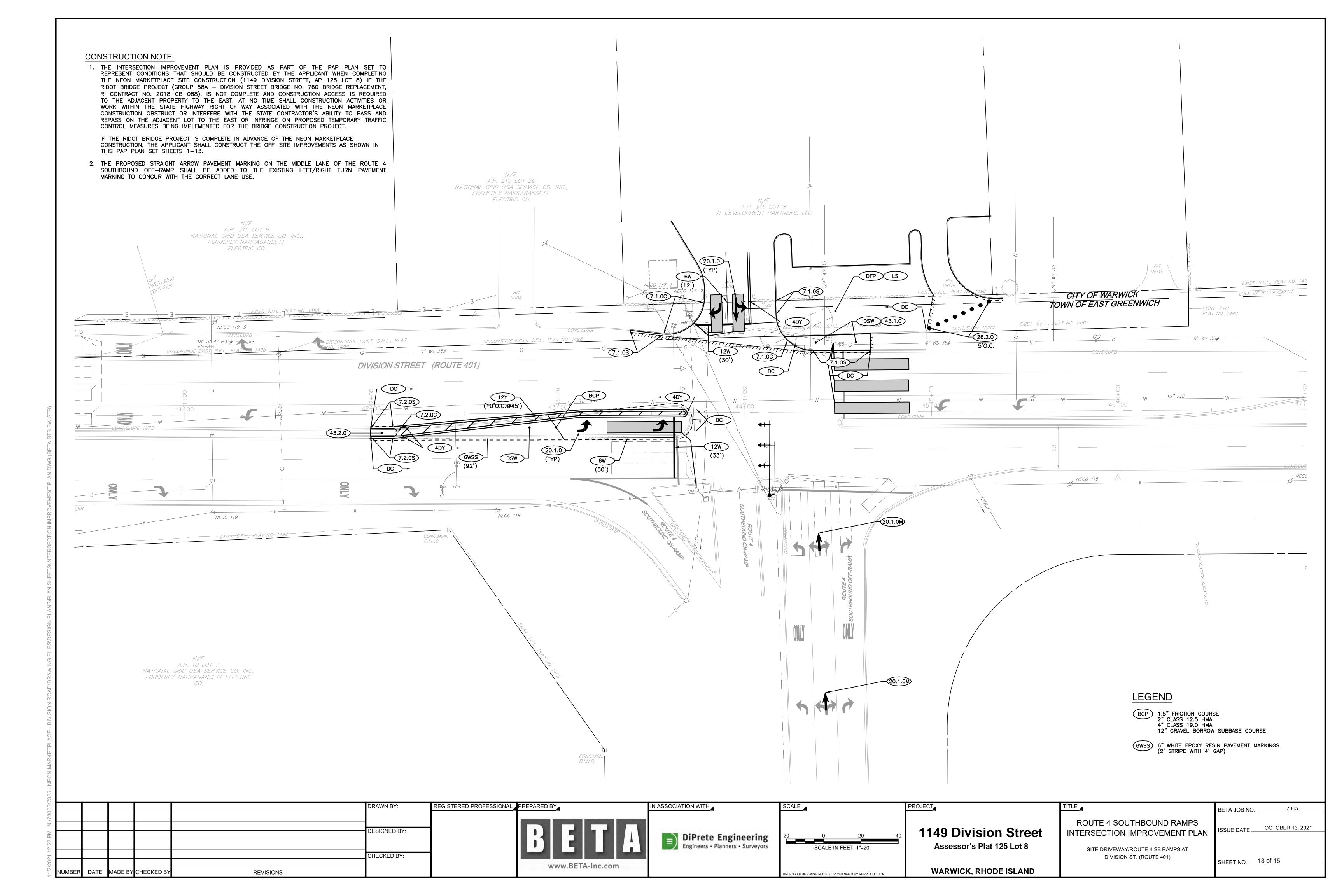




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# TRAFFIC SIGNAL MATERIALS LIST

ITEM NO.	<u>LEGEND</u>	ITEM CODE	ITEM DESCRIPTION
1c		T05.0400	BREAK INTO EXISTING HANDHOLE
2k		T06.5330	3 INCH POLYVINYL CHLORIDE PLASTIC CONDUIT (SCHEDULE 40) - UNDER EXISTING PAVEMENT
4e	•—	T11.0840	40 FOOT STANDARD LOAD STEEL CURVED TRAFFIC SIGNAL MAST ARM, POLE AND FOUNDATION STANDARD 19.2.0
<b>6</b> S	•+•	T14.3513	1 WAY 3 SECTION MAST ARM MOUNTED SIGNAL HEAD 12 INCH
7c		T04.5302	14 AWG 2 CONDUCTOR TWISTED SHIELDED CABLE
7e		T04.5305	14 AWG 5 CONDUCTOR CABLE
9a		T13.1000	TRAFFIC DETECTORS - LOOP, STANDARD 19.6.0
9c		T13.1004	TRAFFIC DETECTOR RELAY - LOOP 4 CHANNEL
10a		T12.9901	REWIRE EXISTING CONTROLLER CABINET

REMOVE AND SALVAGE TRAFFIC SIGNAL SYSTEM

# NEW SIGNAL FACES

D1	D2	D3
R	R	R 🖨
Y	Y	Y (
	G	G 🖨

- 1. ALL NEW SIGNAL HEADS SHALL HAVE NON-LOUVERED BACKPLATES AND VISORS. BACKPLATES AND VISORS SHALL BE INCLUDED IN THE PRICE OF THE NEW HEADS. 2. ALL NEW SIGNAL BACKPLATES SHALL BE 5" AND HAVE A 3
- INCH YELLOW RETROREFLECTIVE BORDER. 3. ALL NEW SIGNAL LENSES/HEADS SHALL BE 12 INCH LIGHT EMITTING DIODE(LED).
- 4. ARROW INDICATIONS SHALL BE TWO ROWS OF LED'S.

# LOOP DETECTOR DATA

LOOP NUMBER	SIZE	RELAY	CHANNEL	PHASE	DELAY SETTINGS (Seconds)	NOTE
1	6'X40'	1	1	ø5	EXISTING	REPLACE
2	6'X40'	1	2	Ø2	EXISTING	REPLACE
3	6'X40'	1	3	Ø2	EXISTING	REPLACE
4	EXISTING	2	1	Ø6	EXISTING	
5	EXISTING	2	2	Ø6	EXISTING	
6	EXISTING	3	1	Ø4	EXISTING	
7	EXISTING	3	2	Ø4	EXISTING	
8	6'X20'	4	1	ø3	EXISTING	REPLACE
9	6'X20'	4	2	ø3	EXISTING	REPLACE
10	EXISTING	4	3	ø3	EXISTING	REMOVE
11	EXISTING	3	3	Ø4	EXISTING	
12	EXISTING	3	4	Ø4	EXISTING	
13	EXISTING	5	1	Ø4	EXISTING	
14	6'X40'	2	3	ø1	3	NEW*

3.0

NON-LOCK NON-LOCK

DRAWN BY:

DESIGNED BY

CHECKED BY:

R R R R R R G Y R R R R R R R R FR

\*SEE CONSTRUCTION NOTE NO. 8.

# A.P. 215 LOT 20 NATIONAL GRID USA SERVICE CO. INC., FORMERLY NARRAGANSETT ELECTRIC CO. N/F A.P. 215 LOT 8 JT DEVELOPMENT PARTNERS. LL SITE (9a) - REMOVE AND DISPOSE LOOP DETECTOR - DISCONNECT EXISTING LOOP 10 PLAT NO. 1498 (IST. S.H.L., PLAT 1" WS 35# REMOVE AND DISPOSE LOOP DETECTOR Division Street (Route 401) DIVISION STREET (ROUTE 401) - REMOVE AND SALVAGE EXISTING MAST ARM NECO 118 R.I.H.B. MATCHLINE A-A

# A-A

MATCHLINE

# **OVERHEAD EQUIPMENT SPACING**

		DISTANCE FROM	
	REFERENCE	CENTER OF	
		MAST ARM	
	A1	EXISTING	
	A2	EXISTING	
	В	EXISTING	
	С	EXISTING	
HEADS	С	EXISTING	
HEADS	D1	11'	
	D2	22'	
	D3	33'	
	E1	EXISTING	
	E2	EXISTING	

SEQUENCE AND

TIMING CHART

ROUTE 4 SOUTHBOUND RAMPS

ROUTE 4 SOUTHBOUND RAMPS DIVISION STREET (ROUTE 401)

MINIMUM GREEN (INITIAL)

YELLOW CLEARANCE

RED CLEARANCE

PASSAGE TIME (VEHICLE)

PEDESTRIAN CLEARANCE

ITE DRIVEWAY

SITE DRIVEWAY

MAXIMUM 1 MAXIMUM 2

RECALL

MEMORY

| DIRECTION | HOUSINGS |

5

2.4

10

4.5

NON-LOCK

REVISIONS

2.8

58

WB

# **COORDINATION DATA**

	PLAN 1	PLAN 2	PLAN 3	
CYCLE LENGTH	90	80	95	
OFFSET	60	60	60	
SPLIT Ø1	20	18	15	
SPLIT Ø2	36	30	46	
SPLIT Ø3	14	14	14	
SPLIT Ø4	20	18	20	
SPLIT Ø5	20	18	15	
SPLIT Ø6	36	30	46	
COORDINATED PHASE	ø2 & ø6	ø2 & ø6	ø2 & ø6	
PLAN 1: M-F 7:00AM-9:30A	AM, 3:00PI	M-4:30PN		
PLAN 2: M-F 9:30AM-3:00PM, 6:00PM-10:00PM SAT-SUN 7:00AM-11:00PM				

PLAN 3: M-F 4:00PM-6:30PM FREE: ALL OTHER PERIODS

# **CONSTRUCTION NOTES:**

- 1. EQUIPMENT TO BE REMOVED AT THIS LOCATION SHALL INCLUDE BUT NOT BE LIMITED TO THE FOLLOWING MAJOR ITEMS:
  - A) 1 MAST ARM B) 2 TRAFFIC SIGNAL HEADS

C) MISCELLANEOUS CONDUIT/WIRING

- 2. INDUCTANCE LOOP VEHICLE DETECTORS SHALL BE CENTERED IN THEIR RESPECTIVE TRAVEL LANES AND WIRES/SPLICED IN
- 3. THE EXISTING CONDUIT NETWORK SHOWN ON THIS PLAN IS BASED ON RECORD PLANS. THE CONTRACTOR SHALL FIELD
- VERIFY THE EXISTING CONDUIT LOCATION AND SIZES FOR ACCURACY AND ADEQUACY PRIOR TO PERFORMING WORK. 4. NEW CABLING IS REQUIRED FOR NEW SIGNAL HEADS.
- 5. THE WORK PROPOSED AS PART OF THIS LOCATION IS LIMITED TO HIGHLIGHTED ITEMS INCLUDING THIS ITEMS LISTED ON THE
- MATERIALS LIST. SHADED ITEMS REFLECT EXISTING CONDITIONS, EQUIPMENT, AND SETTINGS AND SHALL NOT BE ALTERED. 6. THE PROPOSED 40-FOOT MAST ARM LOCATED ON THE SOUTHERLY SIDE OF THE INTERSECTION SHALL BE FABRICATED AND INSTALLED TO MEET REQUIRED CLEARANCES FROM THE EXISTING OVERHEAD UTILITIES. THE CONTRACTOR, PRIOR TO ORDERING AND MANUFACTURING THE NEW MAST ARM, SHALL VERIFY THE HEIGHT OF THE OVERHEAD UTILITY WIRES AT THIS LOCATION. THIS SHALL BE COMPLETED TO PROPERLY DESIGN THE TRAFFIC SIGNAL MAST ARM CURVATURE TO SATISFY THE
- MINIMUM OVERHEAD CLEARANCES IN ACCORDANCE WITH RIDOT POLICIES. 7. ALL SALVAGED TRAFFIC SIGNAL EQUIPMENT INCLUDING THE MAST ARM AND SIGNAL HEADS SHALL BE DELIVERED TO THE
- RIDOT ANTHONY FACILITY, 16 MAPLEDALE STREET, COVENTRY, RHODE ISLAND 02816. 8. THE CONTRACTOR SHALL REPLACE THE EXISTING 2-CHANNEL RELAY WITH A NEW 4-CHANNEL RELAY AND WIRE ADJACENT

LOOPS 4, 5, AND 14 TO THIS NEW 4-CHANNEL RELAY.

RING 2 Ø5	Ø6			
PHASE SEC	DUENCE D	IAGRA	M (DUAI	RING)

# FIRST SEGULINGE DIAGNAM (DUAL MING)

# DATE MADE BY CHECKED B'

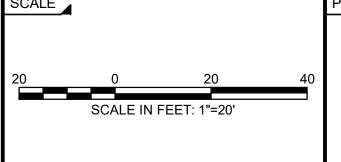
IN ASSOCIATION WITH REGISTERED PROFESSIONAL PREPARED BY www.BETA-Inc.com

2.8

41

NON-LOCK NON-LOCK NON-LOCK





# 1149 Division Street Assessor's Plat 125 Lot 8

WARWICK, RHODE ISLAND

ROUTE 4 SOUTHBOUND RAMPS TRAFFIC SIGNAL PLAN

SITE DRIVEWAY/ROUTE 4 SB RAMPS AT DIVISION ST. (ROUTE 401)

7365 BETA JOB NO. ISSUE DATE OCTOBER 13, 2021 SHEET NO. \_\_\_\_14 of 15

