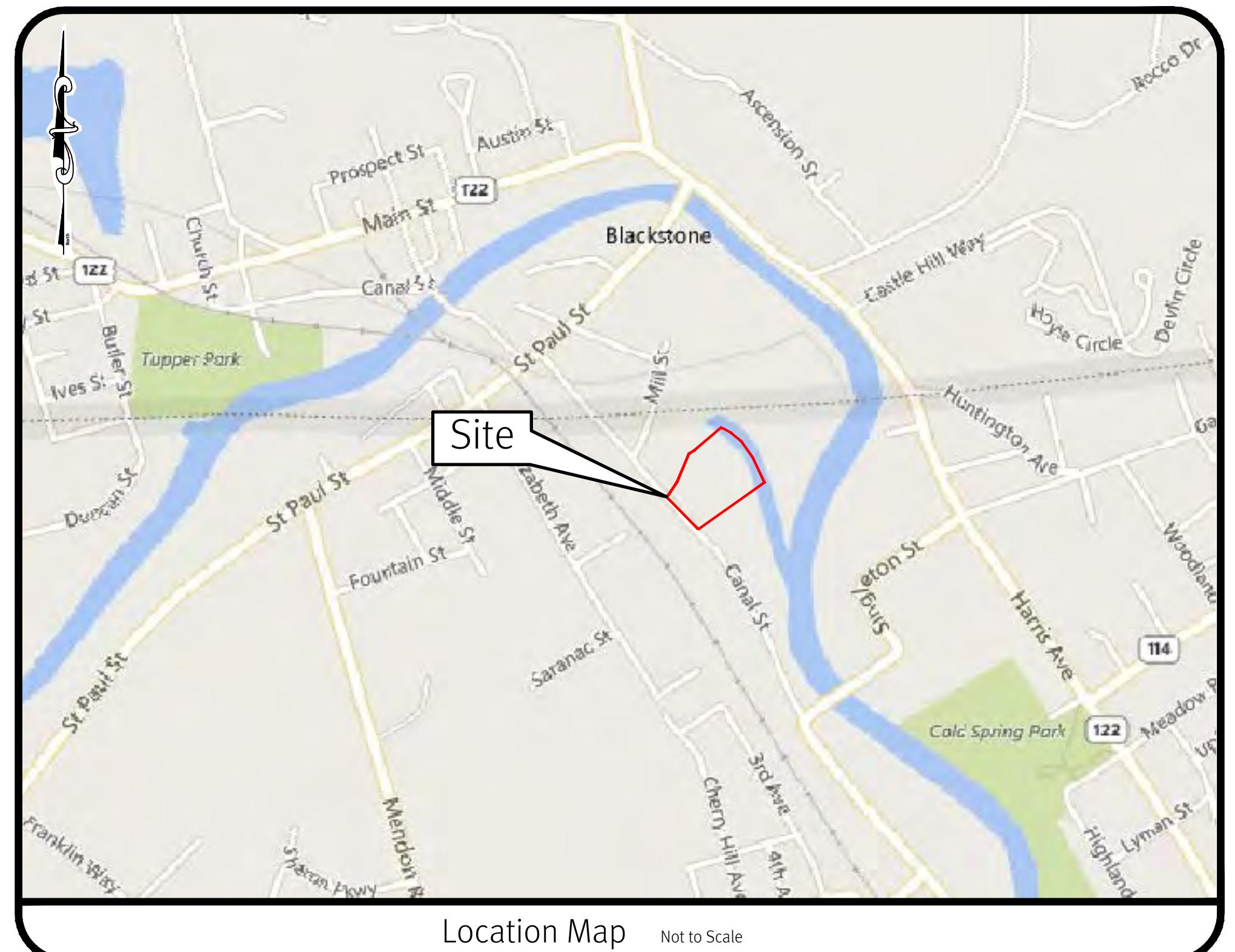


Town Zoning Submission

14 Canal Street

North Smithfield, Rhode Island

Assessor's Plat 3 Lot 117



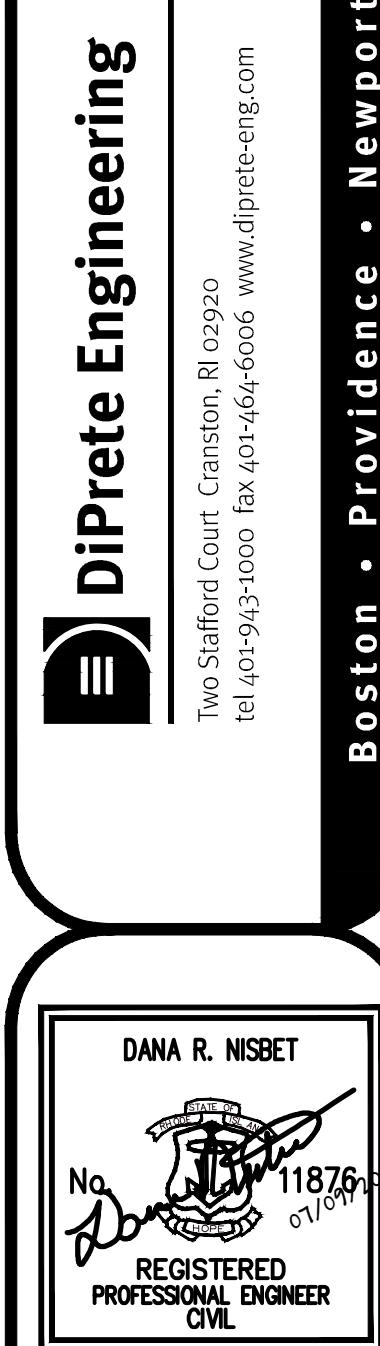
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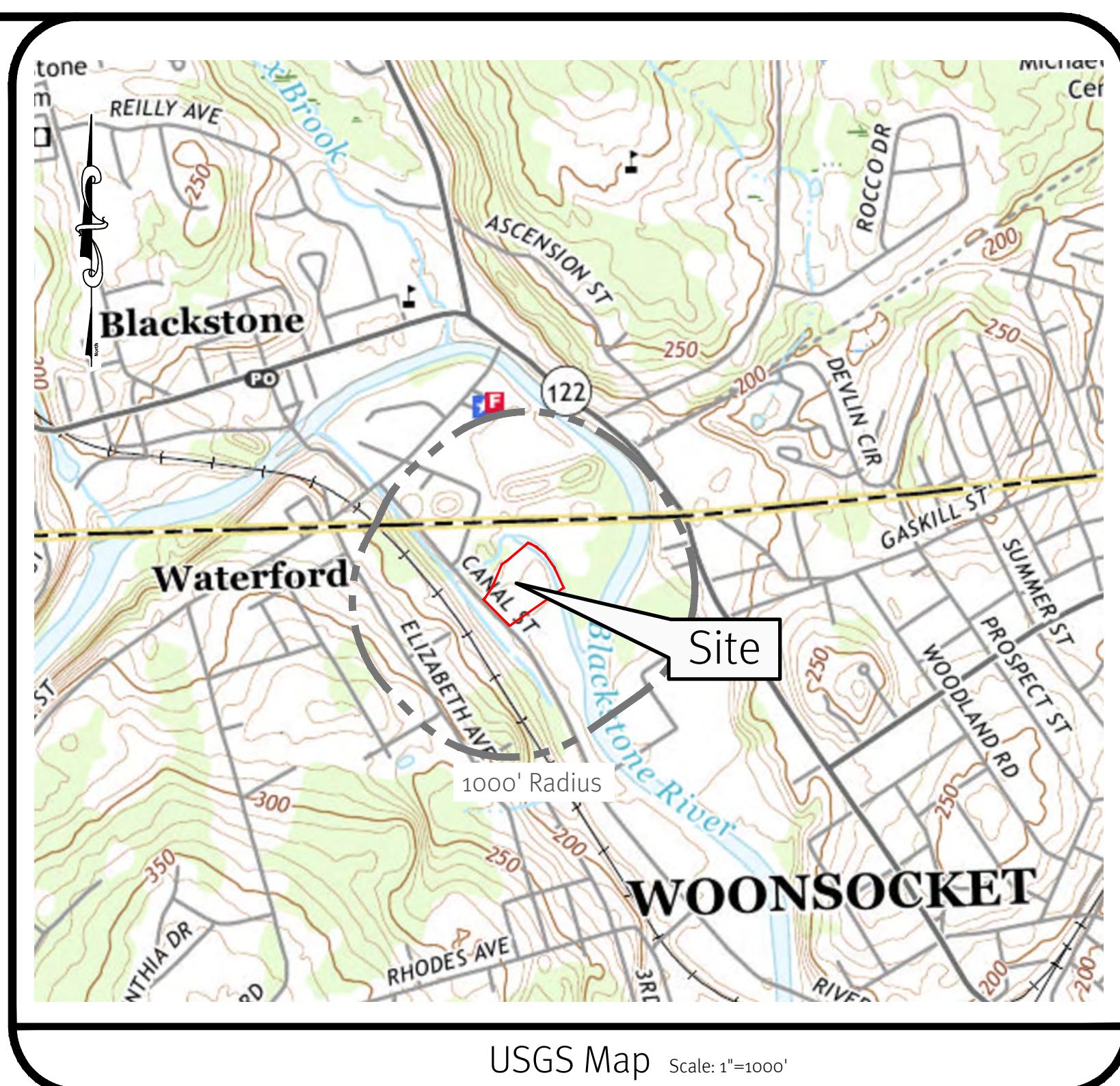
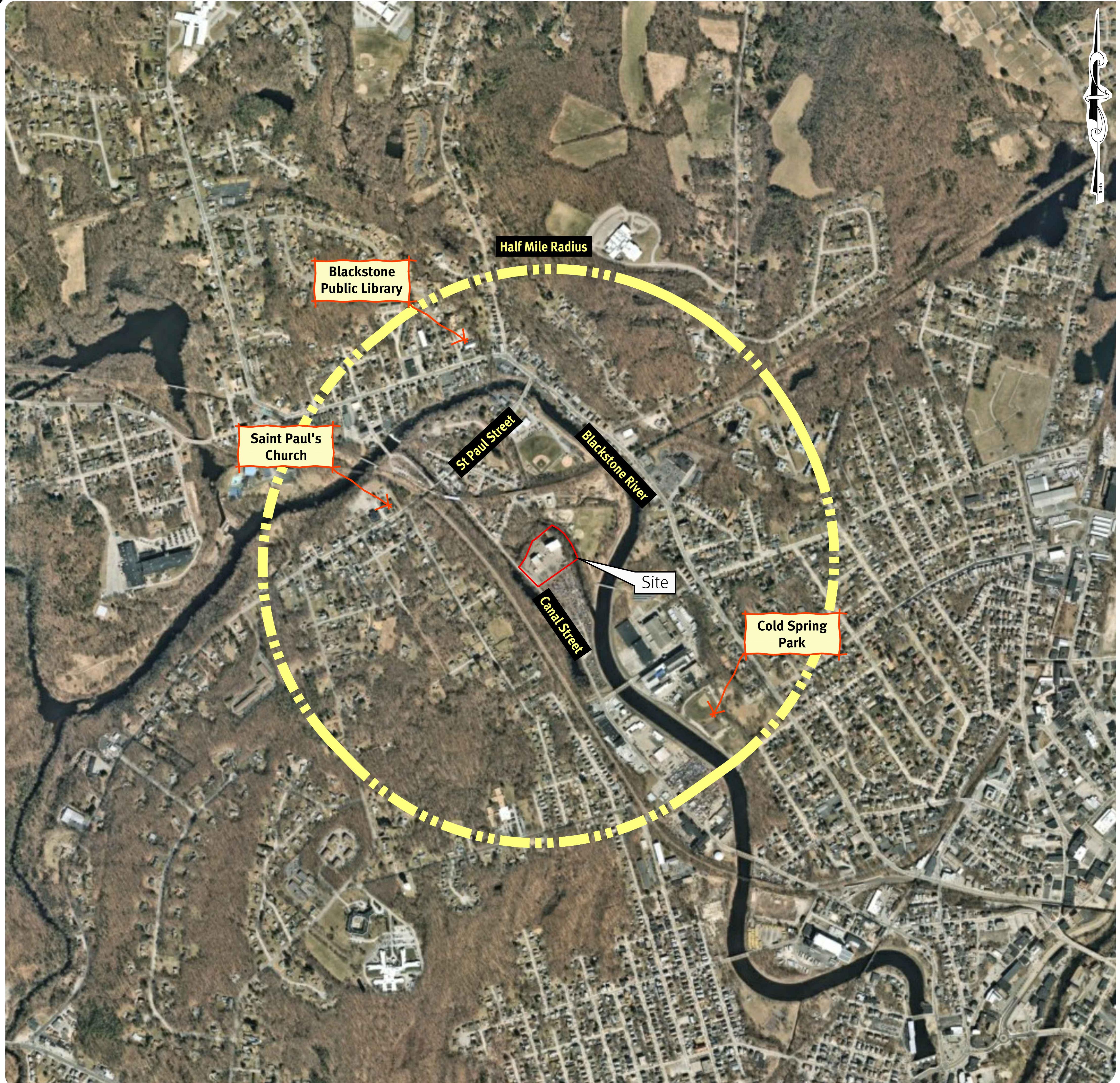
1. Cover Sheet
2. Aerial Half Mile Radius
3. General Notes & Legend
4. Boundary and Topographic Survey
5. Site Layout Plan
6. Detail Sheet

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.

Cover Sheet
North Smithfield Transfer
Assessor's Plat 3 Lot 117
Project For
Waste Connections
14 Canal Street, North Smithfield, Rhode Island 02896
DE Job No. 2596-001 Copyright 2020 by DiPrete Engineering Associates, Inc.





General Notes:

- THE SITE IS LOCATED ON THE TOWN/CITY OF NORTH SMITHFIELD ASSESSOR'S PLAT 3 LOT 117.
- THE SITE IS APPROXIMATELY 4.87± ACRES AND IS ZONED M (MANUFACTURING).
- THE OWNER OF AP/MAP 3 LOT/PARCEL 117 IS: ANGELO CALCAANI 2209 PLAINFIELD PIKE JOHNSTON, RI 02919
- THIS SITE IS LOCATED IN FEMA FLOOD ZONES X AND AE. REFERENCE FEMA FLOOD INSURANCE RATE MAP 44007C0068G, MAP REVISED MARCH 2, 2009. (FLOOD PLAIN DESCRIPTIONS SHOWN BELOW)

ZONE AE – THIS SITE IS LOCATED IN FEMA FLOOD ZONE AE. ZONE AE ARE SPECIAL FLOOD HAZARD AREAS INUNDATED BY 100-YEAR FLOOD. BASE FLOOD ELEVATIONS HAVE BEEN DETERMINED.

ZONE X (UNSHADE) – THIS SITE IS LOCATED IN FEMA FLOOD ZONE X. ZONE X ARE AREAS OF 0.2% ANNUAL CHANCE OF FLOOD; AREAS OF 1% ANNUAL CHANCE OF FLOOD WITH AVERAGE DEPTHS OF LESS THAN 1 FOOT OR WITH DRAINAGE AREAS LESS THAN 1 SQUARE MILE; AND AREAS PROTECTED BY LEVEES FROM 1% ANNUAL CHANCE FLOOD.
- 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 SURVEY PLAN.
- 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 ENGINEERS. THE DATA IS PROVIDED ON THIS PLAN FOR INFORMATION ONLY. THE DATA WAS COLLECTED WITH AIRBORNE LIDAR TECHNOLOGY FOR THE ENTIRE AREA OF RHODE ISLAND BETWEEN APRIL 22 AND MAY 6, 2011 AS PART OF THE NORTHEAST LIDAR PROJECT. THIS DATA'S POSITIONAL ACCURACY AND RELIABILITY HAS NOT BEEN VERIFIED BY DIPRETE ENGINEERING AND IS SUBJECT TO CHANGES AN AUTHORITATIVE FIELD SURVEY MAY DISCLOSE.
- THE SITE IS NOT WITHIN A: GROUNDWATER PROTECTION AREA (RIDEM) NATURAL HERITAGE AREAS (RIDEM) GROUNDWATER PROTECTION OVERLAY DISTRICT (TOWN)
- THE SITE DOES NOT REQUIRE ANY ADDITIONAL CONNECTIONS TO PUBLIC WATER OR PUBLIC SEWER.
- THE DRAINAGE SYSTEM IS DESIGNED TO MEET THE TOWN OF NORTH SMITHFIELD SUBDIVISION AND LAND DEVELOPMENT REGULATIONS. THE STORMWATER MANAGEMENT SYSTEM MEETS THE RIDEM BEST MANAGEMENT PRACTICES.
- 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 AND REFERENCED OR REPRODUCED PROPRIETARY PRODUCT OR DETAILS BY OTHERS THAT ARE SHOWN ON THESE PLANS AS STATED FOR INFORMATION. SPECIFICATIONS 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 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 CONTROLS 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/ ALTERNATIVE 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.
- INLET PROTECTION IS TO BE INSTALLED ON ANY EXISTING CATCH BASINS IN THE VICINITY OF THE PROPOSED WORK.
- FOR SEQUENCE OF CONSTRUCTION, PROJECT PHASING AND CONSTRUCTION PHASING 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.
- ALL LOAM IN DISTURBED AREAS TO BE STOCKPILED FOR FUTURE USE.
- 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.
- 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.
- 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.
- NO STUMP DUMPS ARE PROPOSED ON SITE.

Traffic Notes:

- ALL TRAFFIC CONTROL MUST CONFORM TO THE FEDERAL HIGHWAY ADMINISTRATION (FHWA) MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD) CURRENT EDITION.
- 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.

Grading and Utility Notes:

- CONSTRUCTION TO COMMENCE SUMMER 2020 OR UPON RECEIPT OF ALL NECESSARY APPROVALS.
- THE CONTRACTOR MUST COORDINATE WITH ALL OF THE APPROPRIATE UTILITY COMPANIES FOR AGREEMENTS TO SERVICE THE PROPOSED BUILDING. THIS MUST BE DONE PRIOR TO CONSTRUCTION. NO REPRESENTATIONS ARE MADE BY DIPRETE ENGINEERING THAT UTILITY SERVICE IS AVAILABLE.
- THE CONTRACTOR IS RESPONSIBLE FOR DETERMINING FINISH GRADING AND DRAINAGE AROUND THE BUILDING TO ENSURE SURFACE WATER AND/ OR GROUNDWATER 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.
- 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.
- NO STUMP DUMPS ARE PROPOSED ON SITE.

Abbreviations Legend

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

Existing Legend**(AS SHOWN ON PROPOSED PLANS)**

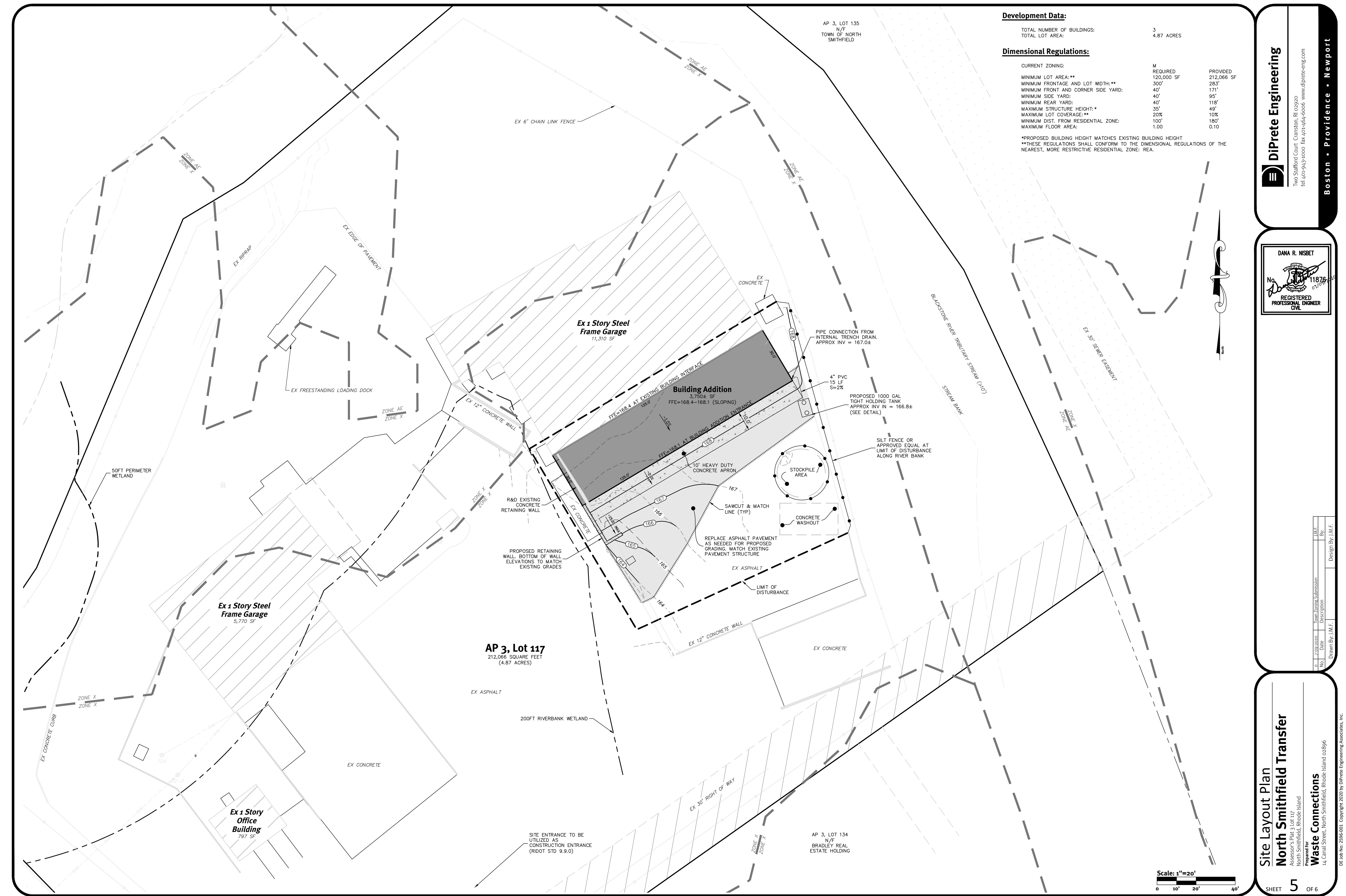
NOT ALL ITEMS SHOWN WILL APPEAR ON PLANS

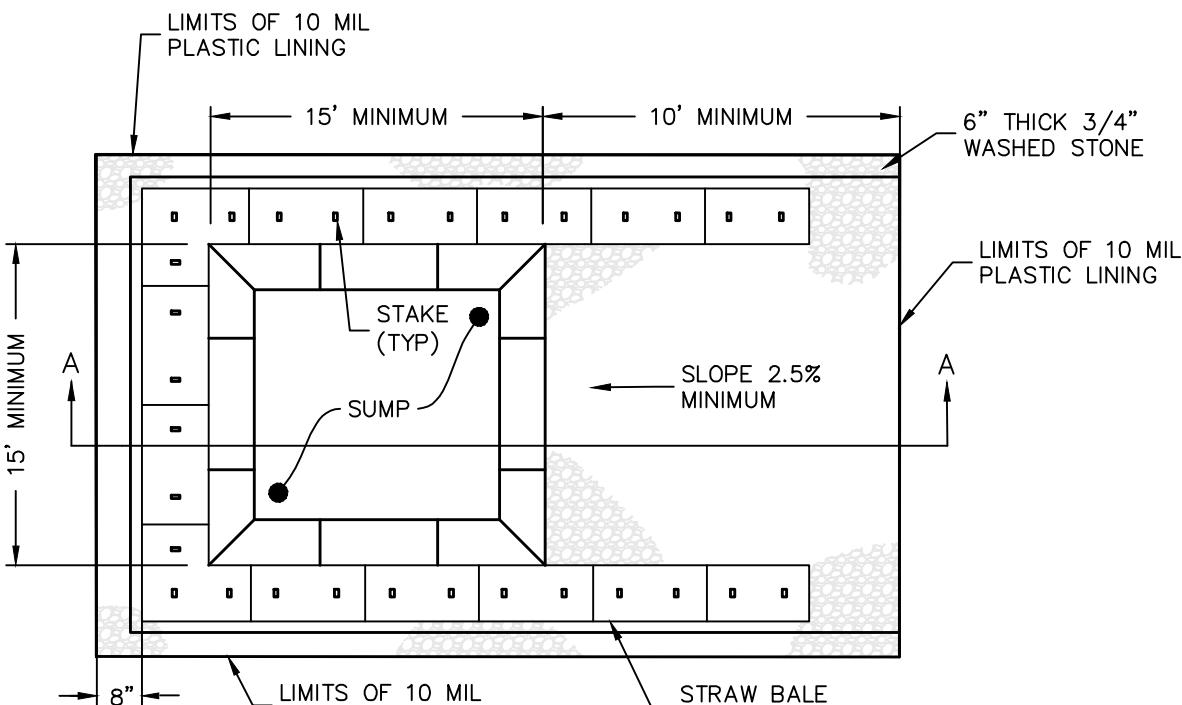
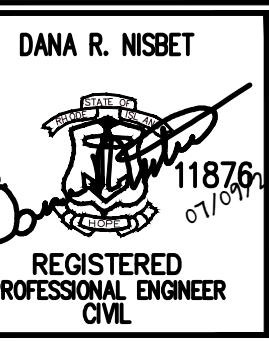
	PROPERTY LINE	△/△	NAIL FOUND/SET
	ASSESSORS LINE	○/○	DRILL HOLE FOUND/SET
	BUILDING	■/□	BOUND FOUND/SET
	BRUSHLINE	●	SIGN
	TREELINE	●	BOLLARD
	GUARDRAIL	SV	SOIL EVALUATION
	FENCE	CB	CATCH BASIN
	RETAINING WALL	DCB	DOUBLE CATCH BASIN
	STONE WALL	DMH	DRAINAGE MANHOLE
	MINOR CONTOUR LINE	FES	FLARED END SECTION
	MAJOR CONTOUR LINE	GW	FLARE
	GUY POLE	EMH	ELECTRIC MANHOLE
	WATER LINE	UP	UTILITY/POWER POLE
	SEWER LINE	LG	LIGHTPOST
	SEWER FORCE MAIN	SMH	SEWER/SEPTIC MANHOLE
	GAS LINE	SV	SEWER VALVE
	OVERHEAD WIRES	CL	CLEANOUT
	DRAINAGE LINE	HY	HYDRANT
	SOILS LINES	IV	IRRIGATION VALVE
	50' PERIMETER WETLAND	WV	WATER VALVE
	100' RIVERBANK WETLAND	WL	WELL
	200' RIVERBANK WETLAND	MW	MONITORING WELL
	FEMA BOUNDARY	GN	UNKNOWN MANHOLE
	STREAM	BM	BENCH MARK
	WETLAND LINE & FLAG	SF	STREAM FLOW DIRECTION
	STATE HIGHWAY LINE	SHL	STATE FREEWAY LINE

Proposed Legend

NOT ALL ITEMS SHOWN WILL APPEAR ON PLANS

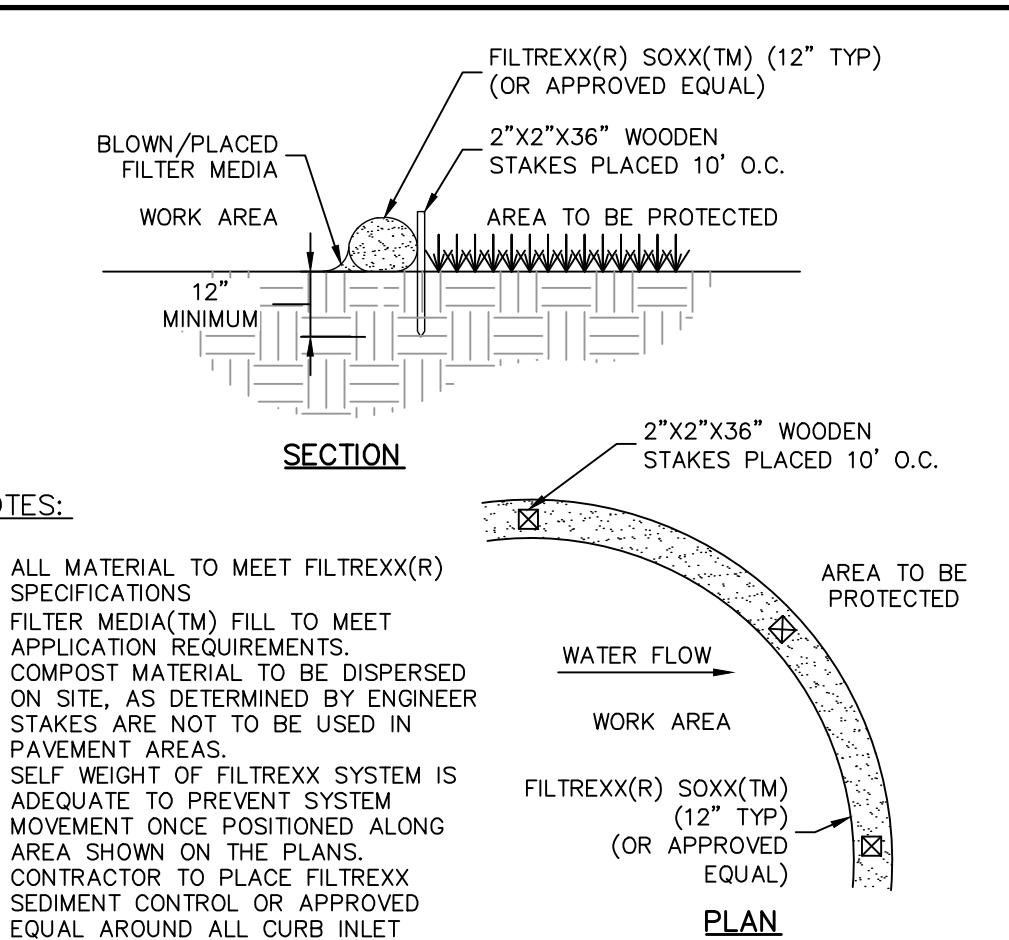
	DRAINAGE LINE		PERFORATED SUBDRAIN
	SWALE		CHAINLINK FENCE
	GUARDRAIL SEE LAYOUT AND MATERIALS NOTE 8		GAS LINE
	RETAINING WALL		WATER LINE
	MINOR CONTOUR LINE		HYDRANT ASSEMBLY
	MAJOR CONTOUR LINE		WATER SHUT OFF
	SPOT ELEVATION		WATER VALVE
	EDGE OF PAVEMENT		THRUST BLOCK
	BITUMINOUS BERM		SEWER LINE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





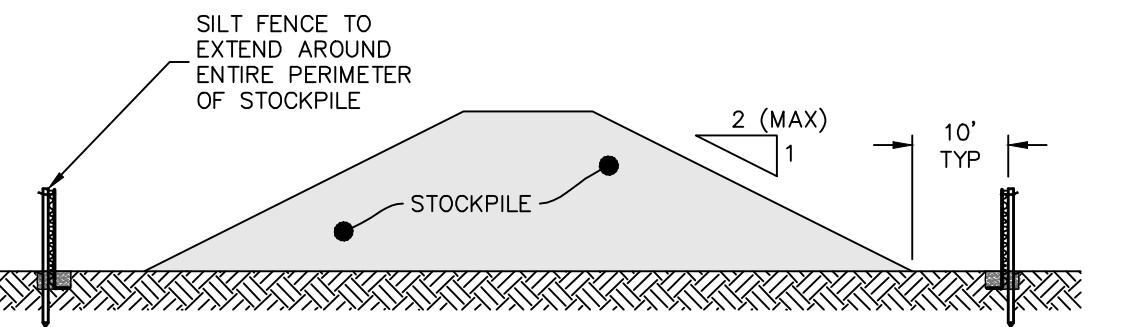
Concrete Washout Area

NOT TO SCALE



Filtrexx Sediment Control (or Approved Equal)

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 HAND BOOK (CURRENT EDITION).
2. DIVERT ALL STORMWATER AWAY FROM STOCKPILES.
3. STOCKPILES WHICH ARE TO BE USED WITHIN 30 DAYS MUST BE SEEDED 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" 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.

Stockpile Protection

NOT TO SCALE

MAINTENANCE: SHORT TERM

1. THE STONE STABILIZATION PADS AT THE SITE ENTRANCE SHALL BE MAINTAINED BY THE CONTRACTOR. THE MAINTENANCE SHALL INCLUDE TOP DRESSING WITH ADDITIONAL STONE OR ADDITIONAL LENGTH AS CONDITIONS DEMAND OR AS DIRECTED BY THE ENGINEER. ALL SEDIMENT SPILLED, DROPPED, WASHED, OR TRACED ON THE PUBLIC RIGHT OF WAY MUST BE REMOVED IMMEDIATELY BY THE CONTRACTOR.
2. ALL SILT FENCE, OR APPROVED EQUAL, TEMPORARY TREATMENTS (HAY, STRAW, OR FIBER) AND TEMPORARY PROTECTION SHALL BE MAINTAINED BY THE CONTRACTOR THROUGHOUT CONSTRUCTION. SITE FLOOR OR EARTHWORK AREAS INSPECTED BY THE CONTRACTOR WITHIN 24 HOURS AFTER EACH STORM EVENT OR DUSTY DAYS, WHICHEVER COMES FIRST, FOR UNDERRUNNING AND DETERIORATION. A STORM EVENT SHALL BE DEFINED AS 0.25 INCHES OF RAIN WITHIN A 24-HOUR PERIOD. THE SILT FENCE OR APPROVED EQUAL SHALL BE REPAIRED OR REPLACED AS WARRANTED. THE CONTRACTOR SHALL MAINTAIN THE ACCUMULATED SEDIMENT IF HALF OF THE ORIGINAL HEIGHT OF THE SILT FENCE OR APPROVED EQUAL IS REMOVED. IN THIS EQUIVALENT, THE SILT FENCE OR APPROVED EQUAL SHALL REMAIN IN PLACE UNTIL AN ACCEPTABLE STAND OF GRASS OR APPROVED GROUND COVER IS ESTABLISHED. FOLLOWING CONFIRMATION FROM THE PROJECT ENGINEER THAT AN ACCEPTABLE STAND OF GRASS OR APPROVED GROUND COVER HAS BEEN ESTABLISHED THE SILT FENCE OR APPROVED EQUAL SHALL BE REMOVED.
3. ALL STORM DRAIN INLETS TO BE PROTECTED WITH SILT SACK OR EQUAL UNTIL FINAL SITE STABILIZATION IS ATTAINED.
4. SPILLS AND LEAKS SHALL BE AVOIDED THROUGH FREQUENT INSPECTION OF EQUIPMENT AND MATERIAL STORAGE AREAS. HEAVY EQUIPMENT AND OTHER VEHICLES SHALL BE ROUTINELY INSPECTED FOR LEAKS AND REPAIRED AS NECESSARY. MATERIAL STORAGE AREAS SHALL BE ROUTINELY INSPECTED FOR LEAKY CONTAINERS, OPEN CONTAINERS, OR IMPROPER STORAGE TECHNIQUES THAT MAY LEAD TO SPILLS OR LEAKS. APPROPRIATE CLEANUP PROCEDURES AND SUPPLIES SHALL BE AVAILABLE ON-SITE AND SHOULD BE USED IMMEDIATELY. MATERIALS CAN LOSE ACCESS TO THESE SUPPLIES QUICKLY. SPILLS SHALL BE CLEANED UP IMMEDIATELY AND FOLLOWING PROPER RESPONSE PROCEDURES AND IN ACCORDANCE WITH ANY APPLICABLE REGULATORY REQUIREMENTS. AT NO TIME SHALL SPILLS BE CLEANED AND FLUSHED DOWN STORM DRAINS OR IN TO ANY ENVIRONMENTALLY SENSITIVE AREA (I.E. STREAM, POND, WETLAND).
5. VEHICLE MAINTENANCE, FUELING AND WASHING SHALL OCCUR OFF-SITE, OR IN DESIGNATED AREAS DEPICTED ON THE APPROVED PLANS OR APPROVED OF BY THE SITE OWNER. MAINTENANCE OR WASHING AREAS SHALL NOT BE WITHIN 50-FEET OF THE STORM DRAIN SYSTEM. MAINTENANCE AREAS SHALL BE CLEARLY DESIGNATED, AND BERM SLOPES, ETC. OTHER FEATURES SHALL BE LOCATED AS FAR AS POSSIBLE FROM THE MAINTENANCE AREA TO PREVENT STORMWATER CONTAMINATION. CONSTRUCTION VEHICLES SHALL BE INSPECTED FREQUENTLY FOR LEAKS. REPAIRS SHALL TAKE PLACE IMMEDIATELY. DISPOSAL OF ALL USED OIL, ANTFREEZE, SOLVENTS AND OTHER AUTOMOTIVE-RELATED CHEMICALS SHALL BE ACCORDING TO APPLICABLE REGULATIONS; AT NO TIME SHALL ANY MATERIAL BE WASHED DOWN THE STORM DRAIN OR IN TO ANY ENVIRONMENTALLY SENSITIVE AREA.
6. THE DEWATERING OF CONTAMINATED NON-STORMWATER CANNOT BE DISCHARGED WITHOUT OBTAINING A RHODE ISLAND DEPARTMENT OF ENVIRONMENTAL MANAGEMENT RIPPLES DISCHARGE PERMIT TO DO SO. IF DEWATERING OF CONTAMINATED WATER IS ANTICIPATED AT THE SITE, APPROPRIATE PERMITS MUST BE OBTAINED IN ADVANCE.
7. THE CONTRACTOR SHALL MAINTAIN ALL TOPSOIL STOCKPILES AND SEDIMENT BARRIERS THROUGHOUT CONSTRUCTION. EXTREME CARE SHALL BE TAKEN TO ENSURE THAT SEDIMENTS DO NOT SPILL OVER THE SEDIMENT BARRIER. HAY BALES OR SILT FENCE SHALL BE STAKED AROUND THE STOCKPILES.
8. ALL DISTURBED SLOPES EITHER NEWLY CREATED OR CURRENTLY EXPOSED SHALL BE SEADED, PROTECTED, AND MAINTAINED BY THE CONTRACTOR FOLLOWING FINAL GRADING AND CONSTRUCTION. THE CONTRACTOR SHALL CHECK ALL SEADED AREAS REGULARLY TO SEE THAT A GOOD STAND OF VEGETATION IS MAINTAINED. THE CONTRACTOR MUST REPAIR OR RESEED ANY AREAS THAT DO NOT DEVELOP WITHIN THE PERIOD OF ONE YEAR AND SHALL DO SO AT NO ADDITIONAL EXPENSE TO THE OWNER.
9. VEHICLE MAINTENANCE AND WASHING SHALL OCCUR OFF-SITE, OR IN DESIGNATED AREAS DEPICTED ON THE APPROVED PLANS OR APPROVED OF BY THE SITE OWNER.
10. DUST CONTROL PROCEDURES AND PRACTICES SHALL BE USED TO SUPPRESS DUST ON A CONSTRUCTION SITE DURING THE CONSTRUCTION PROCESS. AS APPLICABLE, DUST CONTROL MEASURES OUTLINED IN THE RHODE ISLAND SOIL EROSION AND SEDIMENT CONTROL HANDBOOK (AS AMENDED) OR THE RI DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION (AS AMENDED) SHALL BE FOLLOWED.
11. THE CONTRACTOR IS RESPONSIBLE FOR MAINTENANCE AND INSPECTION OF THE BASINS DURING AND UP TO A YEAR AFTER COMPLETION OF CONSTRUCTION AND ACCEPTANCE BY THE OWNER. THE OWNER IS RESPONSIBLE FOR INSPECTIONS AND MAINTENANCE THEREAFTER. THE CONTRACTOR'S MAINTENANCE/INSPECTION RESPONSIBILITIES SHALL INCLUDE INSPECTION OF BASINS FOR MAJOR DEFECTS AND DAMAGE. BMP'S AT NO ADDITIONAL EXPENSE TO THE OWNER, REMOVING ACCUMULATED SILT WHEN SEDIMENTS IN THE BASINS REACH THE HEIGHT SPECIFIED IN THE SEDIMENT VOLUME CALCULATIONS AND MAINTAINING THE GRASS TO A GROWING HEIGHT BETWEEN 2"-10". THE CONTRACTOR SHALL INSPECT RIP RAP PADS AFTER EACH STORM AND REPAIR AS NECESSARY. THE OWNER'S MAINTENANCE/INSPECTION RESPONSIBILITIES SHALL INCLUDE INSPECTION OF BASINS FOR MAJOR DEFECTS AND DAMAGE. BMP'S AT NO ADDITIONAL EXPENSE TO THE OWNER, MAINTAIN A GOOD VEGETATIVE COVER (GRASS BETWEEN 2"-10" OR VEGETATION AS SPECIFIED). THE BOTTOM OF THE BMP'S SHALL BE INSPECTED MONTHLY AND ACCUMULATED SEDIMENTS SHALL BE REMOVED AS NEEDED OR EVERY 10 YEARS, WHICHEVER COMES FIRST.
12. THE CONSTRUCTION SUPERINTENDENT SHALL HAVE OVERALL RESPONSIBILITY FOR THE MAINTENANCE PROGRAM DURING THE CONSTRUCTION PHASE AND FOR A PERIOD OF ONE YEAR AFTER CONSTRUCTION. THE SUPERINTENDENT SHALL SEE THAT THE APPROPRIATE WORKERS ARE AWARE OF THE PROVISIONS OF THE PLAN.
13. AFTER ACCEPTANCE OF THE SITE BY THE OWNER, THE OWNER SHALL HAVE OVERALL RESPONSIBILITY FOR IMPLEMENTING THE MAINTENANCE PROGRAM FOR THE STORMWATER MANAGEMENT PLAN.

ESTABLISHMENT OF VEGETATIVE COVER

1. SLOPES SHALL NOT BE LEFT UNATTENDED OR EXPOSED FOR EXCESSIVE PERIODS OF TIME SUCH AS THE INACTIVE WINTER SEASON. THE CONTRACTOR SHALL INITIATE APPROPRIATE VEGETATIVE PRACTICES ON ALL DISTURBED AREAS AS SOON AS POSSIBLE BUT NOT MORE THAN FORTY (40) DAYS AFTER THE CONSTRUCTION ACTIVITY IN THAT AREA HAS TEMPORARILY OR PERMANENTLY CEASED, UNLESS THE ACTIVITY IS TO RESUME WITHIN TWENTY-ONE (21) DAYS.
2. ALL DISTURBED SLOPES EITHER NEWLY CREATED OR CURRENTLY EXPOSED SHALL BE SEADED.
3. THE TOPSOIL SHALL HAVE A SANDY LOAM TEXTURE RELATIVELY FREE OF SUBSOIL MATERIAL, STONES, ROOTS, LUMPS OF SOIL, TREE LIMBS, TRASH OR CONSTRUCTION DEBRIS AND SHALL CONFORM WITH RHODE ISLAND DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, M.20.
4. THE TEMPORARY SEEDING DESIGN MIX SHALL BE COMPRISED OF THE FOLLOWING:

TYPE	% BY WEIGHT
ANNUAL RYEGRASS	40
PERENNIAL RYEGRASS	60

5. THE NEW ENGLAND EROSION CONTROL/RESTORATION SEED MIX SHALL BE COMPRISED OF THE FOLLOWING:

TYPE	% BY WEIGHT
UPLAND BENTGRASS	1.0
CREEPING BENTGRASS	1.0
BIG BLUESTEM	8.0
NEW ENGLAND ASTER	1.0
FOX SEDGE	8.0
VIRGINIA WILD RYE	28.0
BONESTEL	1.0
GRASS LEAVED GOLDENROD	1.0
CREEPING RED FESCUE	24.0
SOFT RUSH	1.0
SENSITIVE FERN	1.0
SWITCH GRASS	8.0
LITTLE BLUESTEM	15.0
GREEN BULLRUSH	1.0
WOOL GRASS	0.5
BLUE VERNAIN	1.0

6. THE GENERAL PURPOSE SEED MIX SHALL BE URI #2 AND COMPRISED OF THE FOLLOWING:

TYPE	% BY WEIGHT
CREEPING RED FESCUE	40
IMPROVED PERENNIAL RYE GRASS	20
IMPROVED KENTUCKY BLUEGRASS	30
KENTUCKY BLUEGRASS	10

EARLY SPRING OR LATE SUMMER SEEDING IS RECOMMENDED. SEEDING SCHEDULE SHOULD CONFORM WITH RHODE ISLAND DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, L.02.03.1 SEEDING DATES. PERIODIC SEEDING IS RECOMMENDED, UP TO AND INCLUDING THE PERIOD FROM OCTOBER 15 TO OCTOBER 15 WITH THE APPROVAL OF THE ENGINEER OF RECORD. FERTILIZE AS REQUIRED BY SOIL TESTING TO COMPLEMENT OR UPGRADE EXISTING CONDITIONS. THE SEED MIX SHOULD BE INCUBATED FOR 24 HOURS AND BEFORE MIXING AND PLANTING, WITH APPROPRIATE ADDITIONS FOR EACH VARIETY.

7. TEMPORARY TREATMENTS SHALL CONSIST OF HAY, STRAW, OR FIBER MULCH OR PROTECTIVE COVERS SUCH AS A MAT OR FIBER LINING. TEMPORARY HAY MULCH TO BE TACKED IN PLACE WITH NYLON MESH NETTING. SIDE SLOPES OF BASINS SHALL BE TREATED WITH NORTH AMERICAN GREEN EROSION CONTROL BLANKETS SUCH AS S150 APPROVED EQUAL. THEY SHALL BE INCORPORATED INTO THE WORK AS WARRANTED OR AS ORDERED BY THE ENGINEER. HAY OR STRAW APPLICATIONS SHALL BE IN THE AMOUNT OF 2 TONS/ACRE.

8. ALL FILL SHALL BE THOROUGHLY COMPAKTED UPON PLACEMENT IN STRICT CONFORMANCE WITH RHODE ISLAND DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION 202.

9. STOCKPILES OF TOPSOIL SHALL NOT BE LOCATED NEAR WATERWAYS. THEY SHALL HAVE SIDE SLOPES NO GREATER THAN 2:1 AND SHALL BE TEMPORARILY SEADED AND/OR STABILIZED.

10. ALL AREAS PROPOSED TO BE VEGETATED THAT ARE DISTURBED BY CONSTRUCTION SHALL BE STABILIZED BY PERMANENT SEEDING IMMEDIATELY FOLLOWED BY GRAZING. PERMANENTLY SEADED AREAS SHALL BE PROTECTED DURING ESTABLISHMENT WITH MULCH. ALL SEADED AREAS SHALL BE CHECKED REGULARLY TO SEE THAT A GOOD STANDARD IS MAINTAINED. WELL ESTABLISHED VEGETATION SHALL BE MAINTAINED. BARE OR ERODED AREAS SHALL BE IMMEDIATELY REPAIRED AND RESEEDED BY THE CONTRACTOR. ACTIVITIES SHALL BE CONFINED TO WITHIN THE LIMIT OF WORK AS SHOWN ON THE PLANS.

11. MAXIMUM PERMANENT GRADED SLOPE WITHIN THE SITE IS TO BE 3:1 UNLESS NOTED OTHERWISE.

12. THE CONSTRUCTION SUPERINTENDENT SHALL HAVE OVERALL RESPONSIBILITY FOR PLAN IMPLEMENTATION AND FOR SEEING THAT THE APPROPRIATE WORKERS ARE AWARE OF THE PROVISIONS OF THE PLAN. THE CONTRACTOR MUST REPAIR AND/OR RESEED ANY AREAS THAT DO NOT DEVELOP WITHIN THE PERIOD OF ONE YEAR AND SHALL DO SO AT NO ADDITIONAL EXPENSE TO THE OWNER.

13. REFERENCE THE "RHODE ISLAND SOIL EROSION AND SEDIMENTATION CONTROL HANDBOOK" PREPARED BY THE USDA SOIL CONSERVATION SERVICE 1989 AS A GUIDE.

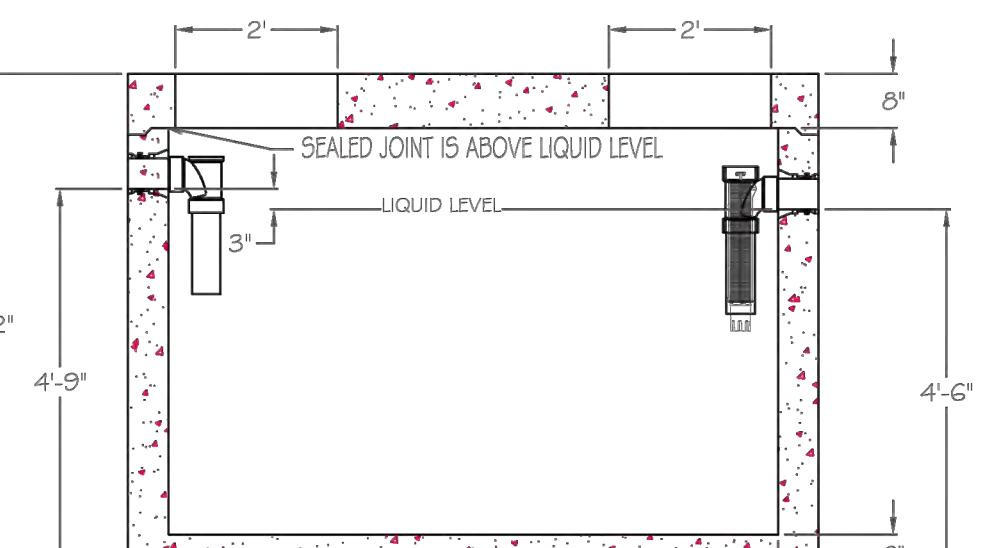
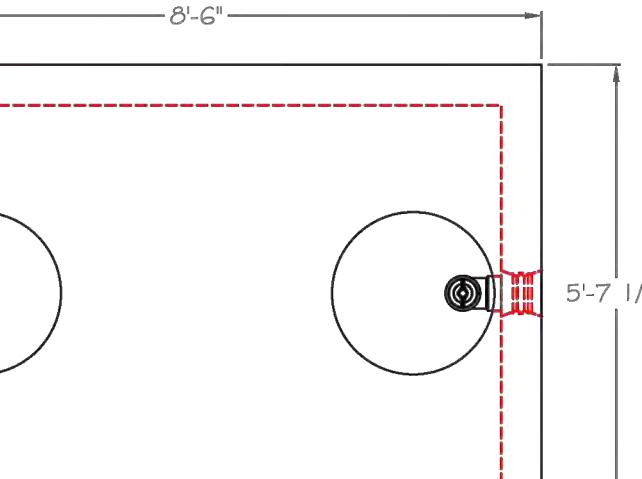
SEQUENCE OF CONSTRUCTION AND STAGING OF LAND DISTURBING ACTIVITIES

1. CONTRACTOR IS RESPONSIBLE FOR SOIL EROSION AND SEDIMENT CONTROL (SESC) ON SITE. SEQUENCE OF CONSTRUCTION PROVIDED MAY BE MODIFIED AS FIELD CONDITIONS WARRANT WITH PRIOR APPROVAL FROM THE TOWN OF NORTH SMITHFIELD OR THEIR REPRESENTATIVE.
2. CONSTRUCTION TO BEGIN IN THE FALL 2020 OR UPON RECEIPT OF ALL NECESSARY APPROVALS.
3. PLACE SEDIMENTATION BARRIERS (HAY BALES OR SILT FENCE) AS SHOWN ON THE PLANS AND STAKED OUT IN THE FIELD. IN NO CASE IS THE LIMIT OF WORK TO EXCEED BEYOND THE SEDIMENTATION BARRIERS.
4. BEGIN CLEARING AND CRUBBING IN AREA OF THE BUILDING, PAVEMENT AREAS AND OTHER AREAS AS INDICATED ON THE PLANS. TOPSOIL IS TO BE STRIPPED AND STOCKPILED IN APPROVED LOCATIONS. TOPSOIL STOCKPILES ARE TO BE PROTECTED BY A ROW OF SEDIMENTATION BARRIERS AND COVERED OR TEMPORARILY SEEDED.
5. INSTALL TEMPORARY SEDIMENTATION CONTROL MEASURES AND DEVICES AS WARRANTED. ALL TEMPORARY CONTROL DEVICES SHALL BE INSTALLED PER THE RHODE ISLAND SOIL EROSION AND SEDIMENTATION CONTROL HANDBOOK.
6. EXCAVATE AND GRADE THE PROPOSED FOUNDATION AND PAVEMENT AREAS. INSTALL TIGHT TANK AND ASSOCIATED PIPING.
7. PLACE COMPACTED GRAVEL FOUNDATION AS NEEDED AND ROUGH GRADE THE PAVEMENT AREA IN ACCORDANCE WITH THE SITE PLANS.
8. BEGIN CONSTRUCTION OF THE BUILDING FOUNDATION AND STRUCTURE.
9. PLACE BITUMINOUS ASPHALT BINDER PER SITE PLANS.
10. FINISH PERMANENT STABILIZATION.
11. SWEEP THE ROADWAY TO REMOVE ALL SEDIMENTS.
12. REMOVE ALL TEMPORARY SOIL EROSION AND SEDIMENTATION CONTROL MEASURES FOLLOWING VEGETATIVE ESTABLISHMENT OF ALL DISTURBED AREAS.

NON-STRUCTURAL MEASURES

1. CONSTRUCTION TRAFFIC SHALL BE LIMITED TO THE ACCESS ROAD, UTILITY EASEMENTS AND AREAS TO BE GRADED.
2. TOPSOIL SHALL BE STRIPPED FROM AREAS TO BE GRADED AND STOCKPILED FOR LATER USE. STOCKPILE LOCATION SHALL BE SUBJECT TO APPROVAL BY THE PROJECT ENGINEER. A SEDIMENT BARRIER SHALL SURROUND ALL TOPSOIL STOCKPILES.
3. ALL TYPES OF WASTE GENERATED AT THE SITE SHALL BE DISPOSED OF IN A MANNER CONSISTENT WITH STATE LAW REGULATIONS. CONSTRUCTION DEBRIS SHALL BE DISPOSED OF DAILY TO AVOID EXPOSURE TO PRECIPITATION.
4. THE CONSTRUCTION SUPERINTENDENT SHALL HAVE OVERALL RESPONSIBILITY FOR PLAN IMPLEMENTATION OF NON-STRUCTURAL MEASURES AND FOR SEEING THAT THE APPROPRIATE WORKERS ARE AWARE OF THE PROVISIONS OF THE PLAN.
5. REFERENCE THE "RHODE ISLAND SOIL EROSION AND SEDIMENT CONTROL HANDBOOK" PREPARED BY THE THE RI STATE CONSERVATION COMMITTEE, UPDATED 2016, AS A GUIDE.

1000 GALLON H-20 SINGLE COMPARTMENT SEPTIC TANK



DESIGN NOTES:

- 1) JOINT IS ABOVE LIQUID LEVEL AND SEALED WITH BUTYL RUBBER SEALANT
- 2) ALL INLETS AND OUTLETS HAVE WATER TIGHT STATE APPROVED SEALS
- 3) AVAILABLE OUTLET FILTER CARTRIDGE SHOWN
- 4) METAL CURB: ASTM I-227
- 5) CONCRETE TRENCH: 1000 PSI MIN. AT 28 DAYS
- 6) CONCRETE H-20: WHEEL LOAD REQUIREMENTS
- 7) REBAR: ASTM A-6 1/2 GRADE 60

JOLLEY PRECAST INC.
1-800-582-4638

FILE: 1000-1C-H20
463 Putnam RD DANIELSON CT 06239
www.jolleyprecast.com

1000 Gallon Tight Tank

NOT TO SCALE