



**Town of Barnstable**  
**Old King's Highway Historic District Committee**  
 200 Main Street, Hyannis, Massachusetts 02601  
 Telephone (508) 862-4787, Email [erin.logan@town.barnstable.ma.us](mailto:erin.logan@town.barnstable.ma.us)



Application for  
**DEMOLITION OR REMOVAL OF A BUILDING OR STRUCTURE**  
 (including partial demolition of buildings, structures; outbuildings, stone walls, etc.)

Application is hereby made, with five (5) complete, colored sets, for the issuance of a Certificate of Appropriateness under Section 6 of Chapter 470, Acts and Resolves of Massachusetts, 1973, for proposed work as described below and on plans, drawings, or photographs accompanying this application for:

Date 1/29/2020 **Map & Parcel** Map 301 Parcel: N/A

**Homeowner** Town of Barnstable Phone 508-790-6400  
 Street address 382 Falmouth Road Email griffin.beaudoin@town.barnstable.ma.us  
 Village Hyannis, MA  
 Mailing address 382 Falmouth Road, Hyannis, MA Signature [Signature] pgb for TOB DPW

**Agent/Contractor** Wright-Pierce Phone 978-416-8000  
 Agent Address 600 Federal Street, Suite 2151 Andover, MA 01810 Email kevin.olson@wright-pierce.com  
 Agent Signature [Signature]

This certificate expires one year from the stamped approval date or upon the expiration of Building Permit, whichever date shall be later. A one year extension may be requested, in writing, to the Old King's Highway Administrative Assistant at 200 Main Street, Hyannis, MA 02601. This request must be received at least 30 days prior to the date of expiration.

There is a 10 day appeal period (14 day waiting period) for all applications after which time your approval paperwork will be available for pickup and building permit sign-off. All applications are subject to meeting any applicable code requirements.

**DEMOLITION OF** House  Part of House  Garage  Barn  Stable  Stone Wall  Commercial   
 Other Pump Station (Rendezvous Lane)

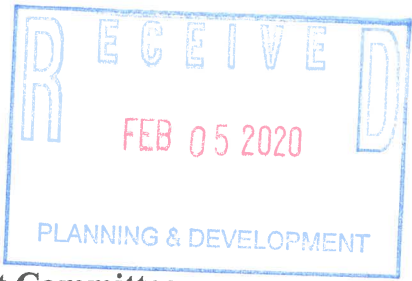
Square footage of footprint of building (s) to be demolished: Building 1: approx. 30 sq. feet Building 2: approx. 30 sq. feet  
 Square footage of total floor area of building (s) to be demolished: Building 1: \_\_\_\_\_ Building 2: \_\_\_\_\_

If application is for removal and relocation, state where: To the intersection of Salten Point Road & Rendezvous Lane, see attached plan

Note: A separate Certificate of Appropriateness is required for a relocation of a building or structure within the Barnstable Old King's Highway Historic District.

**Checklist:**  Application, 5 copies  Site Plan, 5 copies  Photographs of all elevations to be demolished  
 \$120 Application fee  \$17.25 Legal ad fee  Postage Stamps

	For Committee use only	<b>This Certificate is hereby</b>	<b>APPROVED</b>	<b>DENIED</b>
	By a vote of	_Aye_ _Nay_ _Abstain	Date	_____
	Members signatures	_____		
	Conditions of Approval	_____		



**Barnstable Old Kings Highway Historic District Committee**

200 Main Street, Hyannis, MA 02601, Tel 508.862.4787 Eml [erin.logan@town.barnstable.ma.us](mailto:erin.logan@town.barnstable.ma.us)

**APPLICATION, CERTIFICATE OF APPROPRIATENESS**

Application is hereby made, with five (5) complete sets, for the issuance of a Certificate of Appropriateness under Section 6 of Chapter 470, Acts and Resolves of Massachusetts, 1973, for proposed work as described below and on plans, drawings, or photographs accompanying this application for:

*Check all categories that apply;*

- 1. Building construction:     New     Addition     Alteration
- 2. Type of Building:     House     Garage/barn     Shed     Commercial     Other
- 3. Exterior Painting, roof     new roof     color/material change, of trim, siding, window, door
- 4. Sign :     New Sign     Existing Sign     Repainting Existing Sign
- 5. Structure:     Fence     Wall     Flagpole     Retaining wall     Tennis court     Other
- 6. Pool     Swimming     Other man-made pool     Solar panels     Other

Type or Print Legibly:    Date 1/29/2020

*NOTE All applications must be signed by the current owner*

Owner (print): Town of Barnstable    Telephone #: 508-790-6400  
 Address of Proposed Work: 171 Rendezvous Lane    Village Barnstable    Map Lot # 301  
 Mailing Address (if different) 382 Falmouth Road, Hyannis, MA

**Owner's Signature** \_\_\_\_\_

**Description of Proposed Work:** Give particulars of work to be done: Removal and replacement of the Rendezvous Lane pump station with a new duplex submersible pump station, back up generator, and control cabinet, and insulated water enclosure. New manholes and below grade structures are also included.

Agent or Contractor (print): Wright-Pierce    Telephone #: 978-416-8900  
 Address: 600 Federal Street, Suite 2151, Andover, MA 01810

Contractor/Agent' signature: *Erin M. Logan*

<p><i>For committee use only</i></p> <p><b>Date</b> _____</p> <p>_____</p> <p>_____</p> <p>_____</p> <p><b>Conditions of approval</b> _____</p> <p>_____</p>	<p><b>This Certificate is hereby APPROVED / DENIED</b></p> <p><b>Members signatures</b> _____</p> <p>_____</p> <p>_____</p> <p>_____</p>
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**CERTIFICATE OF APPROPRIATENESS SPEC SHEET Please submit 5 copies**

**Foundation Type:** (Max. 12" exposed) (material - brick/cement, other) \_\_\_\_\_

**Siding Type:** Clapboard \_\_\_ shingle \_\_\_ other \_\_\_  
Material: red cedar \_\_\_ white cedar \_\_\_ other \_\_\_\_\_ Color: \_\_\_\_\_

**Chimney Material:** \_\_\_\_\_ Color: \_\_\_\_\_

**Roof Material:** (make & style) \_\_\_\_\_ Color: \_\_\_\_\_

**Roof Pitch(s):** (7/12 minimum) \_\_\_\_\_ (specify on plans for new buildings, major additions)

**Window and door trim material:** wood \_\_\_ other material, specify \_\_\_\_\_

Size of cornerboards \_\_\_\_\_ size of casings (1 X 4 min.) \_\_\_\_\_ color \_\_\_\_\_

Rakes 1st member \_\_\_\_\_ 2<sup>nd</sup> member \_\_\_\_\_ Depth of overhang \_\_\_\_\_

**Window:** (make/model) \_\_\_\_\_ material \_\_\_\_\_ color \_\_\_\_\_  
(Provide window schedule on plan for new buildings, major additions)

**Window grills** (please check all that apply):  
true divided lights \_\_\_ exterior glued grills \_\_\_ grills between glass \_\_\_ removable interior \_\_\_ None \_\_\_

**Door style and make:** \_\_\_\_\_ material \_\_\_\_\_ Color: \_\_\_\_\_

**Garage Door, Style** \_\_\_\_\_ Size of opening \_\_\_\_\_ Material \_\_\_\_\_ Color \_\_\_\_\_

**Shutter Type/Style/Material:** \_\_\_\_\_ Color: \_\_\_\_\_

**Gutter Type/Material:** \_\_\_\_\_ Color: \_\_\_\_\_

**Deck material:** wood \_\_\_ other material, specify \_\_\_\_\_ Color: \_\_\_\_\_

**Skylight, type/make/model/:** \_\_\_\_\_ material \_\_\_\_\_ Color: \_\_\_\_\_ Size: \_\_\_\_\_

**Sign size:** \_\_\_\_\_ Type/Materials: \_\_\_\_\_ Color: \_\_\_\_\_

**Fence Type (max 6' ) Style** \_\_\_\_\_ material: \_\_\_\_\_ Color: \_\_\_\_\_

**Retaining wall:** Material: \_\_\_\_\_

**Lighting,** freestanding \_\_\_\_\_ on building \_\_\_\_\_ illuminating sign \_\_\_\_\_

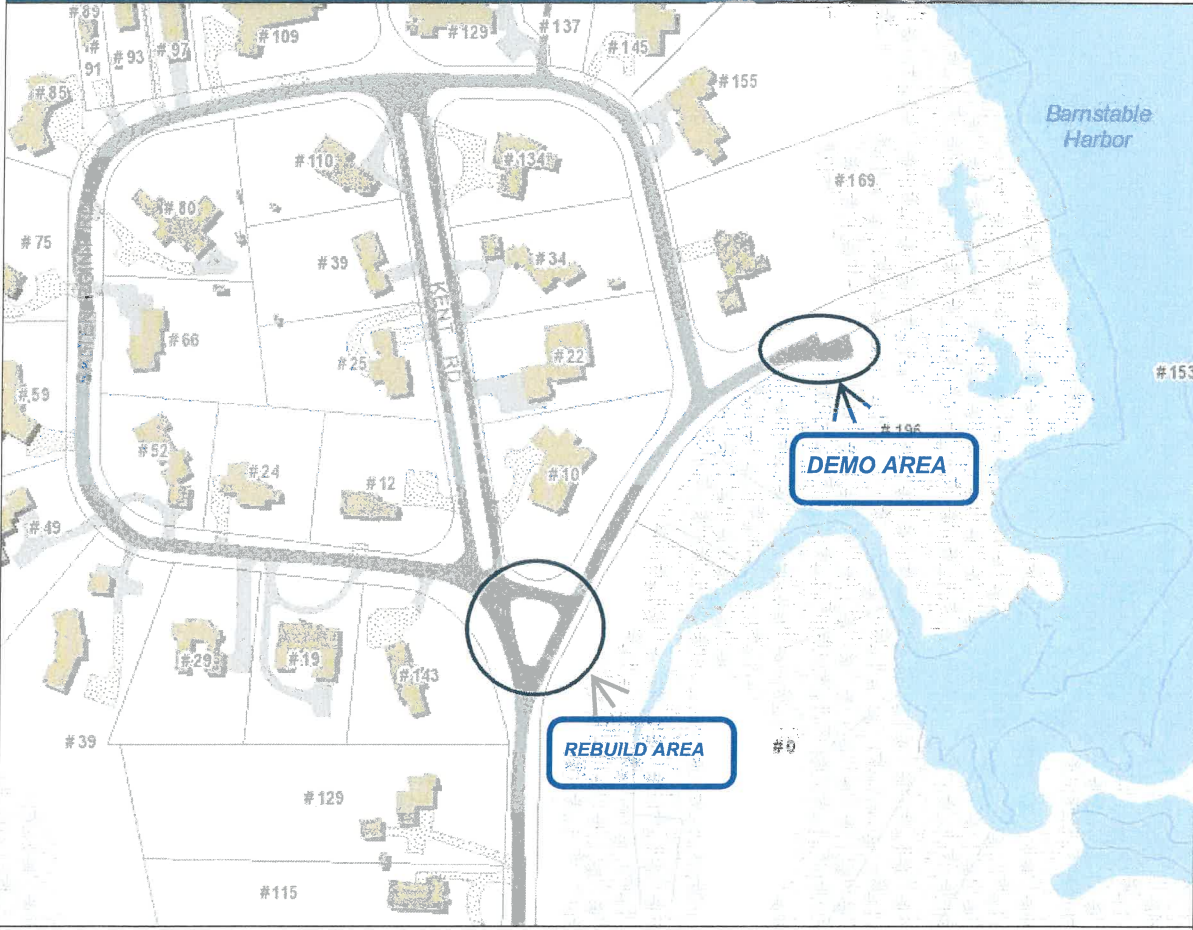
**OTHER INFORMATION:** manholes, generator, control cabinet, insulated enclosure

**THE ATTACHED CHECK LIST MUST BE COMPLETED AND SUBMITTED**

Please provide samples of paint colors, manufacturers brochure of windows, doors, garage door, fences, lamp posts etc

Signed: (plan preparer) Kevin M. Olson Print Name Kevin Olson

# TOWN OF BARNSTABLE PROPERTY MAPS



## Legend

- ▭ Parcels
- Town Boundary
- Railroad Tracks
- Buildings
  - ▭ Approx. Building
  - ▭ Buildings
- Painted Lines
- Parking Lots
  - ▭ Paved
  - ▭ Unpaved
- Driveways
  - ▭ Paved
  - ▭ Unpaved
- Roads
  - ▭ Paved Road
  - ▭ Unpaved Road
  - ▭ Bridge
  - ▭ Paved Median
- Streams
- Marsh
- Water Bodies


Map printed on: 2/14/2020

0 167 333 Feet

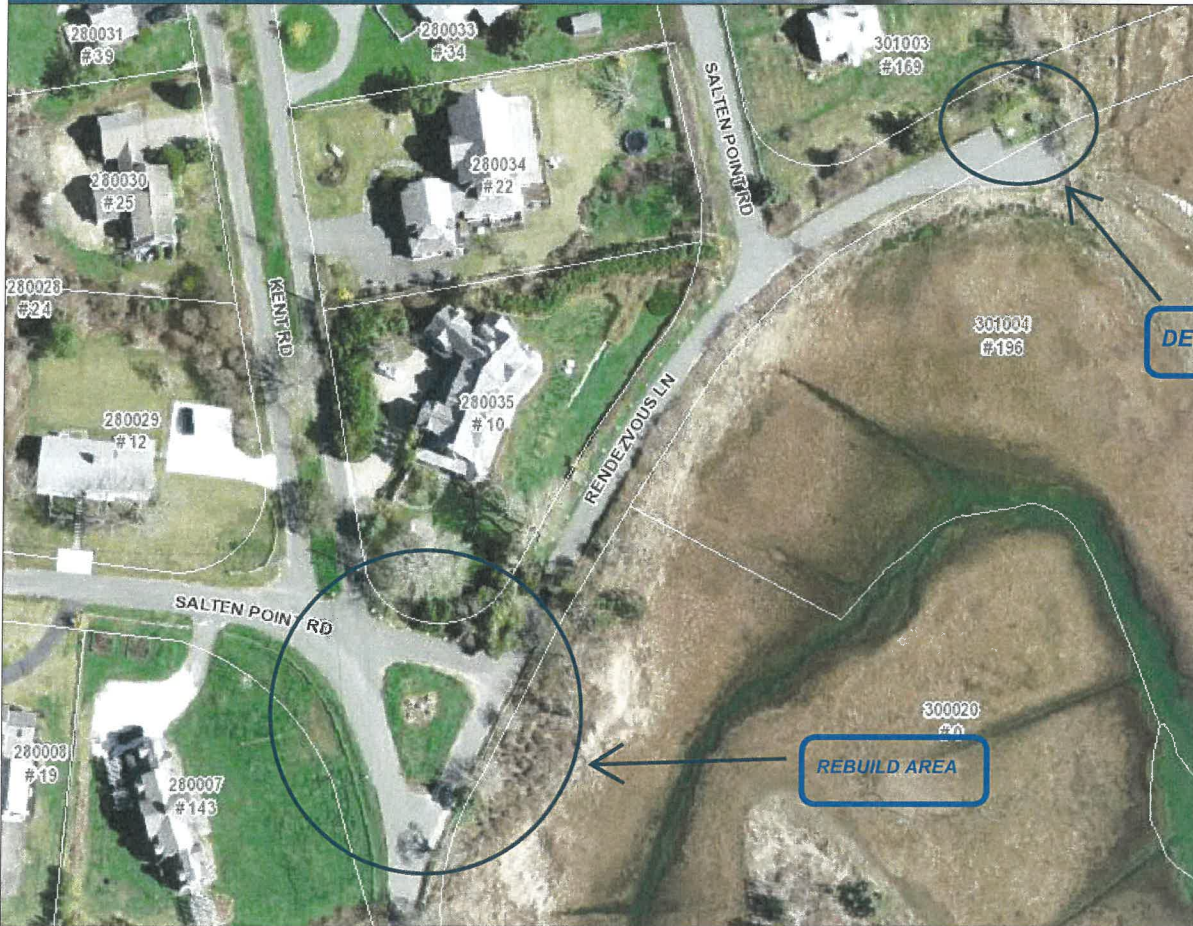
Approx. Scale: 1 inch = 167 feet

This map is for illustration purposes only. It is not adequate for legal boundary determination or regulatory interpretation. This map does not represent an on-the-ground survey. It may be generalized, may not reflect current conditions, and may contain cartographic errors or omissions.

Parcel lines shown on this map are only graphic representations of Assessor's tax parcels. They are not true property boundaries and do not represent accurate relationships to physical objects on the map such as building locations.

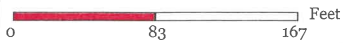
**Town of Barnstable GIS Unit**  
 367 Main Street, Hyannis, MA 02601  
 508-862-4624  
[gis@town.barnstable.ma.us](mailto:gis@town.barnstable.ma.us)



### Legend

Road Names

Map printed on: 2/14/2020



Approx. Scale: 1 inch = 83 feet



This map is for illustration purposes only. It is not adequate for legal boundary determination or regulatory interpretation. This map does not represent an on-the-ground survey. It may be generalized, may not reflect current conditions, and may contain cartographic errors or omissions.

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**Town of Barnstable GIS Unit**

367 Main Street, Hyannis, MA 02601  
508-862-4624

gis@town.barnstable.ma.us

**4. NEW HOUSE, ADDITION OR A COMMERCIAL BUILDING - CONTINUED**

**Plans shall include the following:**

- Name of applicant, street location, map and parcel.
- Name of Builder Designer, or architect; original signature of plan preparer and stamp; plan date, and all revision dates. ALL NEW HOUSE OR COMMERCIAL BUILDING PLANS MUST HAVE AN ORIGINAL SIGNATURE AND STAMP, IF ANY, BY A REGISTERED ARCHITECT, MEMBER OF AIBD, OR A LICENSED MASSACHUSETTS HOME IMPROVEMENT CONTRACTOR, UNLESS THIS REQUIREMENT IS WAIVED BY THE OKH DISTRICT COMMITTEE.
- A written and bar drawn scale
- Elevations of all (affected) sides of the building, with dimensions including height from the natural grade adjacent to the building to the top of the ridge; location and elevation of finished grade, roof pitch(s) dormer setbacks; trim style, window and door styles. Changes to existing buildings must be clouded on drawings.
- Window schedule on plans.
- Landscaping plan**, 5 copies drawn on a certified perimeter plan containing the following information:
  - Name of applicant, street address, assessor's map and parcel number.  
Name address and telephone number of the plan preparer, plan date, & dates of revisions
  - The location of existing and proposed buildings and structures, and lot lines.
  - Natural features of site (e.g. rock outcroppings, streams, wetlands, etc.).
  - Existing buffer areas to remain.
  - Location and species of trees outside of buffer areas greater than 12" caliper to be retained or removed.
  - The location, number, size and name of proposed new trees and plants.
  - Driveway, parking areas, walkways, and patios indicating materials to be used.
  - Existing stone walls, and proposed walls including retaining walls for slope retention or septic systems. (for removal of stone walls, file Demolition Form).
  - All proposed exterior lighting and signs.
- Sketch or photos of adjacent properties**, (1 copy only)  
A sketch(s) to scale or photographs of nearby adjacent buildings, where present, along both sides of the street frontage, showing the proposed new house or commercial building in scale and in relationship to the existing buildings. Please discuss with staff if you do not think this is relevant to your application.
- Photographs of all sides of existing buildings** to remain, or being added to .

**Please complete the following:**

**Existing building, foot print:**

Building 1 30 sq. feet sq. ft. Building 2 30 sq. feet

**Existing Building, gross floor area, including area of finished basement:**

Building 1 \_\_\_\_\_ sq. ft. Building 2 \_\_\_\_\_

**New building or addition, foot print:**

Building 1 \_\_\_\_\_ sq. ft. Building 2 \_\_\_\_\_

**New Building or addition, gross floor area, including area of finished basement:**

Building 1 \_\_\_\_\_ sq. ft. Building 2 \_\_\_\_\_



# Existing Conditions



RECEIVED  
FEB 05 2020  
PLANNING & DEVELOPMENT





RECEIVED  
FEB 05 2020  
PLANNING & DEVELOPMENT



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FEB 05 2020  
PLANNING & DEVELOPMENT



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FEB 05 2020  
PLANNING & DEVELOPMENT



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FEB 05 2020  
FARMINGTON, CT



# Sample Pump Station



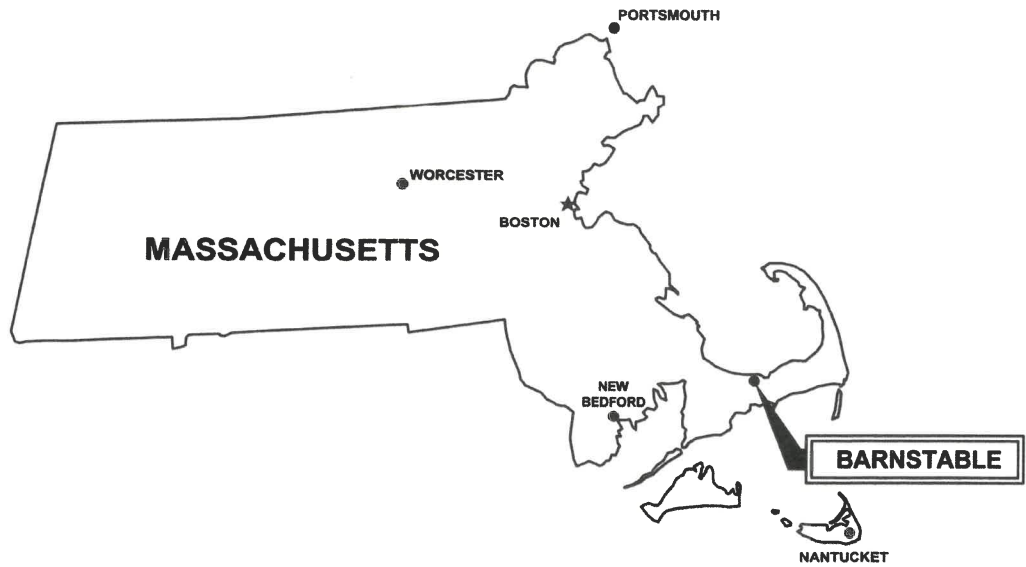
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FEB 05 2020  
FEDERAL BUREAU OF INVESTIGATION

# TOWN OF BARNSTABLE, MASSACHUSETTS

## CONTRACT DRAWINGS FOR

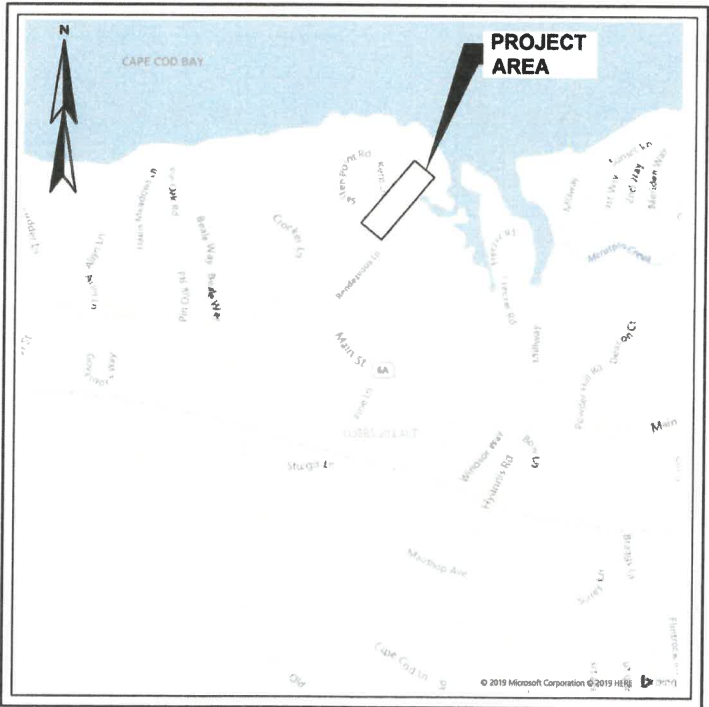
# RENDEZVOUS LANE WASTEWATER PUMP STATION REPLACEMENT PROJECT

CWSRF NO.4494  
DECEMBER 2019

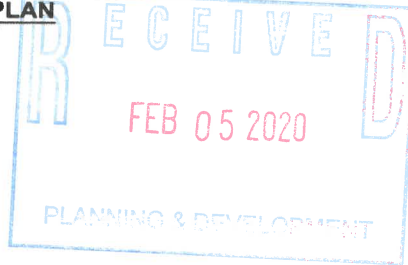


**DRAWING INDEX**

<b>GENERAL</b>	
-	COVER SHEET
<b>CIVIL</b>	
C-1	GENERAL NOTES, LEGEND, AND ABBREVIATIONS
C-2	EXISTING CONDITIONS AND DEMOLITION PLAN
C-3	PUMP STATION SITE PLAN
C-4	PUMP STATION PROPOSED LAYOUT
C-5	RENDEZVOUS LANE PLAN AND PROFILE
C-6	DETAILS I
C-7	DETAILS II
C-8	DETAILS III AND EROSION CONTROL DETAILS
<b>INSTRUMENTATION</b>	
I-1	INSTRUMENTATION LEGEND, NOTES, ABBREVIATIONS
I-2	INSTRUMENTATION LOOP DIAGRAMS
<b>ELECTRICAL</b>	
E-1	ELECTRICAL LEGEND, NOTES, ABBREVIATIONS, NEMA AND CONDUIT INSTALLATION SCHEDULES
E-2	ELECTRICAL SITE PLAN
E-3	SINGLE LINE DIAGRAM
E-4	ELECTRICAL DETAILS
E-5	ELECTRICAL SCHEDULES



**LOCATION PLAN**  
SCALE: 1"=1,000'



888.621.8156 | www.wright-pierce.com

FOR REVIEW DECEMBER  
FOR BIDDING \_\_\_\_\_  
WP PROJECT No. \_\_\_\_\_

LAST SAVED BY: DON SAVAGE 12/24/2019 10:21 AM  
J:\LONG\BARNSTABLE\2009-RENDZVOUS\DRAWINGS\GENC1-GENERAL NOTES, LEGEND AND ABBREVIATIONS.dwg | C:\GENERAL NOTES, LEGEND AND ABBREVIATIONS.dwg | 1/24/2020 1:53:58 PM | DON SAVAGE

### GENERAL NOTES

- THE OWNER WILL BE RESPONSIBLE FOR OBTAINING THE PERMITS LISTED IN THE SUPPLEMENTARY OR SPECIAL CONDITIONS. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO BE FAMILIAR WITH THE APPLICABLE PROVISIONS OF EACH PERMIT AS THEY APPLY TO THE WORK PRIOR TO BIDDING AND ABIDE BY THOSE PROVISIONS DURING CONSTRUCTION. COPIES OF ALL OBTAINED PERMITS ARE AVAILABLE FOR REVIEW FROM THE OWNER. ALL OTHER PERMITS ARE THE RESPONSIBILITY OF THE CONTRACTOR.
- THE OWNER SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY RIGHTS OF WAY AND EASEMENTS. THE CONTRACTOR SHALL VERIFY THAT THE NECESSARY EASEMENTS HAVE BEEN SECURED BY THE OWNER. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO BE FAMILIAR WITH THE APPLICABLE PROVISIONS OF EACH EASEMENT AS THEY APPLY TO THE WORK PRIOR TO BIDDING AND ABIDE BY THOSE PROVISIONS DURING CONSTRUCTION. COPIES OF ALL RIGHTS-OF-WAY AND EASEMENTS ARE AVAILABLE FOR REVIEW FROM THE OWNER.
- THE CONTRACTOR IS RESPONSIBLE FOR MAINTAINING TRAFFIC FLOW AT ALL TIMES. CONTRACTOR SHALL INSTALL AND MAINTAIN TRAFFIC CONTROL SIGNS IN ACCORDANCE WITH THE MUTCD AND ALL STATE AND LOCAL REGULATIONS. THE CONTRACTOR IS REQUIRED TO SUBMIT A TRAFFIC CONTROL PLAN TO THE OWNER PRIOR TO COMMENCING CONSTRUCTION. THE POLICE DEPARTMENT AND FIRE DEPARTMENT ARE TO BE NOTIFIED AT LEAST 24-HOURS IN ADVANCE OF ANY STREET CLOSING OR DETOUR. REFER TO SPECIFICATION SECTION 01570.
- CONTRACTOR SHALL COMPLY WITH ALL APPLICABLE REGULATIONS OF THE OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION (OSHA).
- CONTRACTOR SHALL COMPLY WITH THE COORDINATION REQUIREMENTS AND RELATED COSTS, IF ANY, AS SPECIFIED IN SPECIFICATION SECTION 01050.
- CONTRACTOR SHALL NOTE THAT, IN GENERAL, ALL EXISTING CONDITION INFORMATION ON THE DRAWINGS ARE SHOWN WITH A LIGHTER LINE WEIGHT AND WITH A SLANTED TYPE TEXT.

### EXISTING SITE CONDITIONS

- THE LOCATIONS OF UNDERGROUND UTILITIES AND STRUCTURES, AS SHOWN ON THE DRAWINGS, ARE APPROXIMATE AND MAY NOT BE COMPLETE. THE LOCATION OF EXISTING UNDERGROUND UTILITIES ARE BASED ON PREVIOUS CONSTRUCTION DESIGN PLANS, WHICH ARE AVAILABLE FOR INSPECTION AT THE ENGINEER'S OFFICE. NO GUARANTEE IS MADE THAT UTILITIES OR STRUCTURES WILL BE ENCOUNTERED WHERE SHOWN, OR THAT ALL UNDERGROUND UTILITIES AND STRUCTURES ARE SHOWN. ALL LOCATIONS AND SIZES OF EXISTING UTILITIES AND STRUCTURES SHALL BE VERIFIED IN THE FIELD WITH TEST PITS AS REQUIRED PRIOR TO BEGINNING CONSTRUCTION OF NEW FACILITIES OR PIPING THAT MAY BE AFFECTED. THE CONTRACTOR WILL REALIGN NEW PIPE LOCATIONS AS REQUIRED TO CONFORM TO EXISTING LINES AND AS APPROVED BY THE ENGINEER.
- BELOW GRADE UTILITY INFORMATION IS BASED ON INFORMATION PROVIDED BY EACH UTILITY. LOCATION OF PUBLIC UTILITIES SHOWN IS ONLY APPROXIMATE AND MAY NOT BE COMPLETE. PRIVATE UNDERGROUND UTILITIES SUCH AS, BUT NOT LIMITED TO, SEWER LINES, WATER LINES AND BURIED ELECTRICAL SERVICE ENTRANCES ARE NOT SHOWN. THE CONTRACTOR SHALL ASCERTAIN THE LOCATION AND SIZE OF EXISTING UTILITIES IN THE FIELD WITH THE RESPECTIVE UTILITY COMPANY REPRESENTATIVE PRIOR TO COMMENCING WORK. REFER TO SPECIFICATION SECTION 01050. ADDITIONAL TEST PITS, BEYOND THOSE SHOWN, MAY BE REQUIRED. [NTS - ON MASS PROJECTS, IF ADDITIONAL TEST PITS ARE ANTICIPATED, INCLUDE A BID ITEM FOR ADDITIONAL TEST PITS.] UTILITY CONTACTS ARE AS FOLLOWS:

**ELECTRIC:** EVERSOURCE  
P.O BOX 70  
HYANNIS, MA 02601  
1-800-642-7070

**WATER/SEWER/DRAIN:** BARNSTABLE FIRE DISTRICT WATER DEPT.  
1841 PHINNEY'S LANE  
BARNSTABLE, MA 02630  
(508)362-6498

**TELEPHONE:** VERIZON  
44 OLD TOWN HOUSE ROAD  
SOUTH YARMOUTH, MA 02664  
(508)394-0973

**CABLE:** COMCAST (MICHAEL AHEARN-CONSTRUCTION MANAGER)  
85 EAST BELCHER ROAD  
FOXBORO, MA 02035  
(508)543-9022 X:7801

**GAS:** NATIONAL GRID  
127 WHITE'S PATH  
SOUTH YARMOUTH, MA 02664  
(508)760-7500

- HAZARDOUS ENVIRONMENTAL CONDITIONS HAVE BEEN IDENTIFIED WITHIN THE AREA OF WORK. REFER TO SPECIFICATION SECTION 00800-SC-5.06. IF THE PRESENCE OF ADDITIONAL HAZARDOUS ENVIRONMENTAL CONDITIONS ARE DISCOVERED, THE CONTRACTOR SHALL NOTIFY THE OWNER AND THE ENGINEER IMMEDIATELY. ALL ACTIVITIES, HANDLING AND DISPOSAL OF HAZARDOUS ENVIRONMENTAL CONDITIONS AND MATERIALS SHALL BE IN ACCORDANCE WITH OSHA, FEDERAL, STATE, AND LOCAL REGULATIONS.

### SITE DEMOLITION

- REFER TO THE EXISTING SITE PLAN, FOR ADDITIONAL INFORMATION REGARDING EXISTING FACILITIES. REFER TO THE LAYOUT DRAWING FOR LIMITS OF WORK.
- REFER TO SPECIFICATION SECTION 01010A, WHICH CONTAINS INFORMATION ON CONSTRAINTS OF CONSTRUCTION SEQUENCING.
- DEMOLISH/REMOVE EXISTING PIPING AS REQUIRED FOR CONSTRUCTION OF NEW FACILITIES. ALL PIPING, EQUIPMENT AND MATERIALS TO BE DEMOLISHED AND/OR REMOVED FROM SERVICE SHALL BE COORDINATED WITH THE OWNER AND ENGINEER BEFORE COMMENCING THAT WORK. EXISTING PIPING THAT NEEDS TO BE REMOVED TO CONSTRUCT THE NEW FACILITIES, BUT IS TO REMAIN, SHALL BE REINSTALLED/REPLACED AS NEEDED. EXISTING PIPES AND CONDUIT DESIGNATED AS "ABANDONED" MAY BE REMOVED IF THE CONTRACTOR SO CHOOSES. IF ABANDONED PIPE CONFLICTS WITH NEW SITE PIPING OR FACILITIES, THEN A PORTION OF THE ABANDONED PIPE SHALL BE REMOVED, AND THE NEW ENDS OF ABANDONED PIPE CAPPED OR PLUGGED WITH CONCRETE.
- ALL EXISTING PIPING AND UTILITIES WHICH ARE BENEATH PROPOSED STRUCTURES, AND ARE TO BE ABANDONED, SHALL BE REMOVED TO A MINIMUM OF 5-FEET OUTSIDE OF THE STRUCTURE. PIPE AND UTILITIES BENEATH PROPOSED STRUCTURES THAT ARE TO REMAIN SHALL BE CONCRETE ENCASED, UNLESS OTHERWISE INDICATED. REFER TO THE STRUCTURAL DRAWINGS FOR DETAILS.
- SEVERING OF EXISTING UTILITIES FOR ABANDONMENT, OR REMOVAL OF A SEGMENT FROM SERVICE, SHALL BE PERFORMED IN SUCH A MANNER AS TO ALLOW THE REMAINING ACTIVE SEGMENT TO CONTINUE IN ITS INTENDED SERVICE. CAP ACTIVE SEGMENTS WITH APPROPRIATE FITTINGS, JOINT RESTRAINT, ETC. TO ENSURE THEIR INTEGRITY. PLUG ENDS OF ABANDONED PIPE SEGMENTS WITH CONCRETE UNLESS SPECIAL CIRCUMSTANCES DICTATE PLUGGING ABANDONED PIPES WITH BLIND FLANGES, RESTRAINED MECHANICAL JOINT PLUGS, ETC. AS APPROPRIATE.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR REMOVING AND DISPOSING OF ALL DEMOLISHED PIPING, EQUIPMENT AND MATERIALS. DISPOSAL SHALL BE IN ACCORDANCE WITH ALL STATE AND LOCAL REGULATIONS. THE OWNER RESERVES THE RIGHT TO RETAIN ANY SUCH PIPING, EQUIPMENT AND MATERIALS DESIGNATED FOR DEMOLITION. SUCH MATERIALS TO BE RETAINED SHALL BE PROPERLY STORED IN AN ON-SITE LOCATION. COORDINATE LOCATION AND MATERIALS TO BE SALVAGED WITH THE OWNER/ENGINEER. REFER TO SPECIFICATION SECTION 02050A.
- THE CONTRACTOR SHALL KEEP A RECORD OF DEMOLITION AS PART OF THE PROJECT RECORD DOCUMENTS IN ACCORDANCE WITH SPECIFICATION SECTION 01720.
- THE CONTRACTOR SHALL TAKE ALL NECESSARY STEPS TO ENSURE THAT ALL PROCESS FLOWS ARE MAINTAINED DURING CONSTRUCTION. GRAVITY OR PUMPED BYPASSES AND OTHER MEANS OF MAINTAINING FLOW SHALL BE SUBJECT TO THE REVIEW AND ACCEPTANCE OF THE ENGINEER. THE CONTRACTOR SHALL COORDINATE ANY TEMPORARY STOPPAGES OR BYPASSES WITH THE OWNER AND ENGINEER. FEDERAL AND STATE REGULATIONS REQUIRE THAT THE TREATMENT FACILITY REMAIN IN OPERATION (ALL TREATMENT, DISINFECTION, SLUDGE HANDLING AND DISPOSAL PROCESSES) THROUGHOUT CONSTRUCTION, AND THAT DISCHARGE PERMITS ARE MET. REFER TO SPECIFICATION SECTION 01010A.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE APPROPRIATE DISPOSAL OF FLOWS RESULTING FROM PRECIPITATION AND GROUNDWATER DEWATERING OPERATIONS.

### SITE CLEARING, GRUBBING AND GRADING

- STRIPPING OF TOPSOIL (LOAM) SHALL BE IN ACCORDANCE WITH SPECIFICATION SECTION 02115. REFER TO THE LAYOUT AND GRADING DRAWINGS FOR LIMIT OF WORK AND STRIPPING.
- CONTRACTOR SHALL MINIMIZE CLEARING OPERATIONS. CLEARING AND GRUBBING SHALL BE IN ACCORDANCE WITH SPECIFICATION SECTION 02110. CLEARING LIMITS SHALL BE AS INDICATED ON THE DRAWINGS, BUT AT ALL TIMES WITHIN EXISTING ROAD RIGHTS-OF-WAY AND PROPERTY LINES ON STATE OR COUNTY-OWNED PROPERTY OR EASEMENTS. ALL CLEARING AND

GRUBBING MATERIAL SHALL BE THE PROPERTY OF THE CONTRACTOR AND SHALL BE DISPOSED OF AT A SITE PROVIDED BY THE CONTRACTOR IN COMPLIANCE WITH ALL STATE AND LOCAL LAWS.

- THE CONTRACTOR SHALL FOLLOW ALL ENDANGERED SPECIES ACT (ESA) RULES REGARDING THE NORTHERN LONG EARED BAT. THIS INCLUDES AVOIDANCE OF TREE REMOVAL DURING THE MONTHS OF JUNE AND JULY. CONTRACTOR SHALL PLAN ACCORDINGLY. [NTS - IF CONSULTATION WITH US FISH & WILDLIFE SERVICE FLAGS YOUR PROJECT AS A HOT SPOT, ADD ADDITIONAL REQUIREMENTS HERE - REFER TO THE FOLLOWING DIRECTORY:  
X:(STANDARDS)\DESIGN-STUDIES-DOCUMENTATION\13\_REFERENCE-MATERIAL\US-FISHERIES-WILDLIFE.]
  - CONTRACTOR SHALL PROVIDE PROPER EROSION CONTROL AND DRAINAGE MEASURES IN ALL AREAS OF WORK, AND CONFINE SOIL SEDIMENT TO WITHIN THE LIMITS OF EXCAVATION AND GRADING. PRIOR TO BEGINNING EXCAVATION WORK, EROSION CONTROL FENCE SHALL BE INSTALLED AT THE DOWN GRADIENT PERIMETER OF THE ACTUAL LIMITS OF GRUBBING AND/OR GRADING, AND AS SHOWN ON THE DRAWINGS. EROSION CONTROL MEASURES SHOWN ON THE DRAWINGS ARE A MINIMUM. CONTRACTOR SHALL TAKE ALL OTHER NECESSARY MEASURES. EROSION CONTROL FENCE SHALL ALSO BE INSTALLED AT THE DOWN GRADIENT PERIMETER OF THE TOPSOIL STOCKPILES. ALL DISTURBED EARTH SURFACES SHALL BE STABILIZED IN THE SHORTEST PRACTICAL TIME AND TEMPORARY EROSION CONTROL DEVICES SHALL BE EMPLOYED UNTIL SUCH TIME AS ADEQUATE SOIL STABILIZATION HAS BEEN ACHIEVED. TEMPORARY STORAGE OF EXCAVATED MATERIAL SHALL BE STABILIZED IN A MANNER THAT WILL MINIMIZE EROSION. ALL INSTALLED EROSION CONTROL FACILITIES SHALL BE REMOVED AT THE END OF THE PROJECT. REFER TO SPECIFICATION SECTION 02270.
  - ALL STORM DRAINAGE INLETS SHALL BE PROTECTED BY HAY BALE FILTERS TO PREVENT ENTRY OF SEDIMENT FROM RUNOFF WATERS DURING CONSTRUCTION. CONTRACTOR SHALL BE RESPONSIBLE FOR THE REMOVAL AND DISPOSAL OF ALL COLLECTED SEDIMENT, AND THAT WHICH COLLECTS IN THE STORM DRAIN SYSTEM. REFER TO THE CIVIL DETAIL DRAWINGS.
  - THE GEOTECHNICAL DATA REPORT FOR THE PROJECT SITE IS INCLUDED IN APPENDIX A AND IS DESCRIBED IN SPECIFICATION SECTION 00800 (SUPPLEMENTAL CONDITIONS).
  - CONTRACTOR SHALL CONTROL DUST ON THE CONSTRUCTION SITE TO A REASONABLE LIMIT, AS DETERMINED BY THE ENGINEER, AND AS OUTLINED IN SPECIFICATION SECTION 01562.
  - CONTRACTOR SHALL NOT TRACK OR SPILL EARTH, DEBRIS OR OTHER CONSTRUCTION MATERIAL ON PUBLIC OR PRIVATE STREETS AND PLANT DRIVES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE IMMEDIATE ASSOCIATED CLEAN UP.
  - ALL CATCH BASINS, MANHOLES, VALVE PITS, VALVE BOXES AND OTHER BURIED FACILITIES WITH SURFACE ACCESS SHALL BE ADJUSTED TO MATCH FINAL GRADES, UNLESS OTHERWISE INDICATED.
  - THE CONTRACTOR SHALL NOT HAVE ANY RIGHT OF PROPERTY IN ANY MATERIALS TAKEN FROM ANY EXCAVATION. SUITABLE EXCAVATED MATERIAL MAY BE INCORPORATED IN THE PROJECT, WITH EXCESS MATERIAL DISPOSED OF AT A LOCATION PROVIDED BY THE CONTRACTOR. THESE PROVISIONS SHALL IN NO WAY RELIEVE THE CONTRACTOR OF OBLIGATIONS TO PROPERLY DISPOSE OF AND REPLACE ANY MATERIAL DETERMINED BY THE ENGINEER TO BE UNSUITABLE FOR BACKFILLING. THE CONTRACTOR SHALL DISPOSE OF UNSUITABLE AND EXCESS MATERIAL IN ACCORDANCE WITH THE APPLICABLE SECTIONS OF THE CONTRACT DOCUMENTS. [NTS: PROJECT ENGINEER SHOULD REVIEW POTENTIAL EXCESS MATERIAL SITUATION WITH OWNER AND DISCUSS / DEFINE ULTIMATE DISPOSAL.]
  - CONTRACTOR SHALL REMOVE AND REPLACE, OR REPAIR, ALL CURBS, SIDEWALKS, PAVEMENT AND OTHER ITEMS DAMAGED BY CONSTRUCTION ACTIVITIES TO AT LEAST THEIR ORIGINAL CONDITION, TO THE SATISFACTION OF THE OWNER AND ENGINEER.
  - WHERE EXISTING PAVEMENT IS REMOVED AND REPLACED, MATCH EXISTING GRADES TO THE EXTENT POSSIBLE. COORDINATE FINE GRADING WITH THE ENGINEER.
  - ALL ROAD AND DRIVE CROSS SLOPES SHALL PITCH 1/4-INCH PER FOOT MINIMUM. ALL PAVED SURFACES SHALL PITCH 1% UNLESS OTHERWISE NOTED. REFER TO THE CIVIL DETAIL DRAWINGS.
- ALL NON-ROADWAY AREAS THAT ARE EXCAVATED, FILLED, OR OTHERWISE DISTURBED BY THE CONTRACTOR SHALL BE LOAMED, GRADED, LIMED, FERTILIZED, SEEDED AND MULCHED, UNLESS OTHERWISE NOTED. THE TOP 4-INCHES OF SOIL SHALL BE LOAM. REFER TO SPECIFICATION SECTION 02485, LANDSCAPING/LOAM AND SEED.

### CIVIL SITE LAYOUT

- THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING THIS PROVIDED LAYOUT INFORMATION THROUGHOUT THE COURSE OF CONSTRUCTION. REPORT ANY LAYOUT DISCREPANCIES IMMEDIATELY TO THE ENGINEER.
- REFER TO THE SITE PIPING AND SITE GRADING DRAWINGS FOR ADDITIONAL LAYOUT INFORMATION.
- CONTRACTOR SHALL EXCAVATE TEST PITS, WHERE NECESSARY, PRIOR TO CONSTRUCTION LAYOUT AND RESULTS REPORTED TO THE ENGINEER FOR REVIEW FOR CONFORMANCE TO THE PLANS. TEST PITS ARE REQUIRED WHERE SHOWN ON THE PLANS AND AS DIRECTED BY THE ENGINEER.
- IN GENERAL, THE GIVEN STRUCTURE LOCATIONS ARE TO THE OUTSIDE FACE OF THE STRUCTURE FOUNDATION WALL, NOT FOOTINGS. REFER TO THE ARCHITECTURAL AND STRUCTURAL DRAWINGS FOR BUILDING AND STRUCTURE DIMENSIONS. RADII SHOWN FOR ROADS ARE TO EDGE OF PAVEMENT.
- PLACE CRUSHED STONE MOWING STRIP AROUND THOSE STRUCTURES AS INDICATED ON THE DRAWINGS. REFER TO THE CIVIL DETAIL DRAWINGS.
- THE LOCATIONS AND LIMITS OF ALL ON-SITE WORK AND STORAGE AREAS SHALL BE REVIEWED/COORDINATED WITH, AND ACCEPTABLE TO, THE OWNER AND ENGINEER. THE CONTRACTOR SHALL LIMIT ACTIVITIES TO THESE AREAS.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR RE-ESTABLISHING AND RESETTling ALL EXISTING PROPERTY MONUMENTATION DISTURBED BY CONSTRUCTION. THIS WORK SHALL BE DONE BY A LAND SURVEYOR REGISTERED IN THE STATE OF MASSACHUSETTS, AT NO ADDITIONAL COST TO THE OWNER.
- WRITTEN DIMENSIONS SHALL PREVAIL. DO NOT SCALE DISTANCES FROM THE DRAWINGS. REPORT ANY DISCREPANCIES IMMEDIATELY TO THE ENGINEER.
- BOLLARD LOCATIONS SHOWN ARE APPROXIMATE. COORDINATE BOLLARD LOCATIONS WITH THE ENGINEER. REFER TO THE CIVIL DETAIL DRAWINGS.
- ALL ELEVATIONS REFER TO THE NAV 88 DATUM. ORIENTATION IS GRID NORTH ON THE MASS STATE PLAIN COORDINATE SYSTEM MAIN LAND ZONE 83. CONTRACTOR SHALL VERIFY BENCHMARK ELEVATIONS PRIOR TO USING IN CONSTRUCTION.
- EXISTING CONDITIONS SITE PLAN DEVELOPED FROM SURVEY DRAWING PREPARED BY THE TOWN OF BARNSTABLE MASSACHUSETTS, DATED 10/30/19, AND EXISTING RECORD DRAWING INFORMATION.
- WETLAND BOUNDARIES DELINEATED BY CARON ENVIRONMENTAL CONSULTING IN AUGUST 2019. WETLANDS FLAGS SURVEYED BY CARON ENVIRONMENTAL CONSULTING.

### CIVIL SITE PIPING

- ALL PIPE LINES SHALL SLOPE UNIFORMLY BETWEEN ELEVATIONS INDICATED ON THE DRAWINGS. NO CRESTS IN PIPING WILL BE PERMITTED. CONCRETE THRUST BLOCKS OR OTHER ACCEPTABLE RESTRAINT SYSTEM IS REQUIRED ON ALL FITTINGS ON PRESSURE PIPE. WHERE A RESTRAINED JOINT SYSTEM IS USED, THE NUMBER OF PIPES WITH RESTRAINED JOINTS ON EITHER SIDE OF THE FITTING SHALL BE DESIGNED TO REFLECT THE PROJECT SOIL CONDITIONS AND PEAK SURGE PRESSURE IN THE PIPING SYSTEM. SEE THE CIVIL DETAIL DRAWINGS FOR THRUST BLOCK DETAILS. PROVIDE ALL BENDS (HORIZONTAL AND VERTICAL) AS REQUIRED TO MEET THE GRADES AND ALIGNMENT INDICATED ON THE DRAWINGS. [NOTE TO DESIGNER - FOR PROJECTS]
- WHERE THRUST RESTRAINT SYSTEMS ARE ALLOWED IN LIEU OF CONCRETE THRUST BLOCKS, LIKE FORCE MAIN AND WATER MAINS, THE REQUIRED LENGTHS OF PIPE WITH RESTRAINT ON EITHER SIDE OF THE FITTING AND LENGTHS ADJACENT TO THE FITTING SHOULD BE PROJECT SPECIFIC AND COMPLETED BY THE ENGINEER OR DESIGNER USING A CALCULATOR LIKE: [HTTP://RLC.EBAA.COM/CALCULATOR.PHP\\*\\*](http://rlc.ebaa.com/calculator.php)
- THE CONTRACTOR SHALL ASCERTAIN THE LOCATION AND SIZE OF EXISTING PIPING AND UTILITIES IN THE FIELD BY TEST PIT EXCAVATION PRIOR TO COMMENCING INSTALLATION OF ANY OF THE NEW PIPING AFFECTED. WHERE NEW PIPE CONNECTS TO EXISTING PIPING OR STRUCTURAL PENETRATION, CONTRACTOR SHALL VERIFY ELEVATION BY TEST PIT, AS REQUIRED, PRIOR TO INSTALLATION OF ANY OF THE ASSOCIATED/AFFECTED NEW PIPING. IDENTIFIED CONFLICTS WITH EXISTING PIPING AND UTILITIES WILL BE REVIEWED WITH THE ENGINEER PRIOR TO COMMENCING INSTALLATION. THE HORIZONTAL ALIGNMENT OF NEW PIPING MAY BE ADJUSTED IN THE FIELD SUBJECT TO PRIOR REVIEW AND ACCEPTANCE OF THE ENGINEER. CONTRACTOR SHALL BE RESPONSIBLE FOR LAYOUT OF ALL PROPOSED WORK AS SHOWN ON THE DRAWINGS AND REPORT ANY LAYOUT DISCREPANCIES IMMEDIATELY TO THE ENGINEER.
- ALL BURIED CONNECTIONS TO STRUCTURES SHALL HAVE SLEEVE TYPE FLEXIBLE CONNECTIONS APPROXIMATELY 4-FEET FROM THE STRUCTURES. ALL SLEEVE TYPE COUPLINGS ON PRESSURE LINES SHALL BE RESTRAINED (SOLID SLEEVE). REFER TO SPECIFICATION SECTION 15088.
- PROVIDE CAST OR DUCTILE IRON WALL CASTINGS, OR GALVANIZED STEEL PIPE SLEEVES, FOR ALL PIPE PENETRATIONS MADE THROUGH CONCRETE FOUNDATIONS, WALLS AND SLABS. ALL WALL SLEEVES AND WALL CASTINGS SHALL HAVE WATERSTOPS. SEE PROCESS, MECHANICAL AND STRUCTURAL DRAWINGS FOR LOCATIONS OF PENETRATIONS. NEW PENETRATIONS THROUGH EXISTING STRUCTURE WALLS SHALL BE BY CORING MACHINE AND LINK-TYPE SEALS, UNLESS OTHERWISE INDICATED. OPENINGS TO BE

COMPATIBLE WITH REQUIRED PIPING AND STANDARD LINK SEAL SIZES. SEE PROCESS DETAIL DRAWINGS. REFER TO SPECIFICATION SECTION 15092.

- TRENCH INSULATION SHALL BE USED WHERE DEPTH OF COVER IS LESS THAN \_\_\_ FEET. REFER TO THE CIVIL DETAIL DRAWINGS FOR THE TRENCH INSULATION DETAIL.
- TRENCH INSULATION SHALL BE USED WHEN THERE IS LESS THAN 2-FEET BETWEEN THE SEWER OR FORCE MAIN AND A CULVERT. REFER TO THE CIVIL DETAIL DRAWINGS FOR THE TRENCH INSULATION DETAIL.
- MANHOLES ARE 4-FEET IN DIAMETER UNLESS OTHERWISE NOTED. THE TOP OF MANHOLE FRAMES SHALL BE SET FLUSH WITH FINISH GRADE, UNLESS OTHERWISE NOTED ON DRAWINGS. SEWER MANHOLE INVERTS SHOWN ON THE DRAWINGS ARE TO THE INSIDE FACE OF THE MANHOLE.
- PIPES WITHIN VALVE PITS (MANHOLES) SHALL BE SUPPORTED 12-INCHES ABOVE BOTTOM OF MANHOLE ON ADJUSTABLE PIPE SADDLE SUPPORTS, IN ACCORDANCE WITH SPECIFICATION SECTION 15094, UNLESS OTHERWISE INDICATED.
- CONTRACTOR SHALL RE-SHAPE INVERTS AS REQUIRED WHEN CONNECTING INTO EXISTING MANHOLES.
- REFER TO SPECIFICATION SECTION 02200 FOR PIPE AND STRUCTURE BEDDING AND BACKFILL REQUIREMENTS.
- COMPACTION TESTS WILL BE PERFORMED IN ACCORDANCE WITH SPECIFICATION SECTION 02200. ANY SETTLEMENT OCCURRING WITHIN ONE-YEAR OF FINAL COMPLETION OF THE WORK SHALL BE CORRECTED BY THE CONTRACTOR AT NO ADDITIONAL COST.
- OPEN TRENCHES IN THE ROADWAY MUST BE BACKFILLED AT THE END OF THE WORKDAY. OPEN TRENCHES OUTSIDE OF THE WAY MAY BE LEFT OPEN IF THE CONTRACTOR PROVIDES ADEQUATELY SAFE BARRICADING AND LIGHTS. [NTS - DELETE IF NOT APPLICABLE.]
- IN THOSE INSTANCES WHERE POWER OR TELEPHONE POLE SUPPORT IS REQUIRED, THE CONTRACTOR SHALL PROVIDE A MINIMUM 48-HOUR NOTICE TO THE RESPECTIVE UTILITY POLE OWNER. NO ADDITIONAL PAYMENT WILL BE PROVIDED FOR TEMPORARY BRACING OF UTILITIES.
- WHERE NEW PIPING IS TO BE CONNECTED TO EXISTING PIPING, THE CONTRACTOR SHALL FURNISH AND INSTALL ALL ADAPTERS, FITTINGS, AND ADDITIONAL PIPE AS REQUIRED TO COMPLETE THE CONNECTION. CONTRACTOR SHALL VERIFY LOCATION, ELEVATION, ORIENTATION AND MATERIAL OF CONSTRUCTION. TEST PITS SHALL BE USED AS REQUIRED.
- ALL EXISTING UTILITIES ENCOUNTERED DURING CONSTRUCTION ARE TO REMAIN IN SERVICE UNLESS OTHERWISE NOTED ON THE CIVIL EXISTING CONDITIONS AND DEMOLITION PLAN. ANY EXISTING UTILITIES DAMAGED DURING CONSTRUCTION SHALL BE REPAIRED BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE OWNER.

LEGEND		LEGEND (CONT'D)	
EXISTING	PROPOSED	EXISTING	PROPOSED
PROPERTY/ROW LINE	---	CONIFEROUS TREE	
SETBACK LINE	---	DECIDUOUS TREE	
EASEMENT LINE	---	SHRUB	
CENTERLINE	---	EDGE OF WATER	
EDGE OF PAVEMENT	---	STREAM	
CURBING	---	EDGE OF WETLANDS	
EDGE OF GRAVEL	---	FLOODPLAIN	
EDGE OF CONCRETE	---	WETLANDS	
CONTOUR	---	DRAINAGE FLOW	
BUILDING		DRAINAGE SWALE	
STONEWALL		PAVEMENT MARKINGS	
TREELINE		SIGN	
CHAIN LINK FENCE		MAILBOX	
STOCKADE FENCE		TEMPORARY BENCH MARK	
BARB WIRE FENCE		TEST PIT	
RETAINING WALL		TEST BORING	
GUARDRAIL		TEST PROBE	
SEWER	8" S	MONITORING WELL	
SEWER FORCE MAIN	4" FM	LIMIT OF WORK	---
GAS	4" G	SILT FENCE	
WATER	8" W	RIPRAP	
STORM DRAIN	15" SD	RAILROAD	
UNDERDRAIN	6" UD	MATCHLINE	---
CULVERT	12" CMP	ROCK OUTCROP	
UNDERGROUND ELECTRIC	UGE	REMOVE/DEMOLISH	
OVERHEAD ELECTRIC	OHE		
IRON PIPE/REBAR	●		
DRILLHOLE	○		
MONUMENT	■		
SURVEY CONTROL POINT	△		
SPOT ELEVATION	x		
SEWER MANHOLE	● SMH		
DRAINAGE MANHOLE	● DMH		
CATCH BASIN	● CB		
ELECTRIC MANHOLE	■ EMH		
TELEPHONE MANHOLE	■ TMH		
SHUTOFF VALVE	⊥		
WATER SERVICE SHUTOFF	⊥		
YARD HYDRANT	⊥		
HYDRANT	⊥		
UTILITY POLE	⊥		
UTILITY POLE W/ GUY	⊥		
UTILITY POLE W/ LIGHT	⊥		
LIGHT POLE	*		
BOLLARD	*		
FLAGPOLE	o		



DESIGNED BY: D.COS	APP'D: DATE
CAD COORD: D.SAV	
CAD: D.SAV	
CHECKED BY: K.O.S	
DATE: 01/20/20	
APPROVED BY: K.O.S	
DATE: 2/19/20	
PROJECT NO.: 20099	

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TOWN OF BARNSTABLE, MA  
RENDEZVOUS LANE  
WASTEWATER PUMP STATION  
REPLACEMENT

GENERAL NOTES, LEGEND AND ABBREVIATIONS

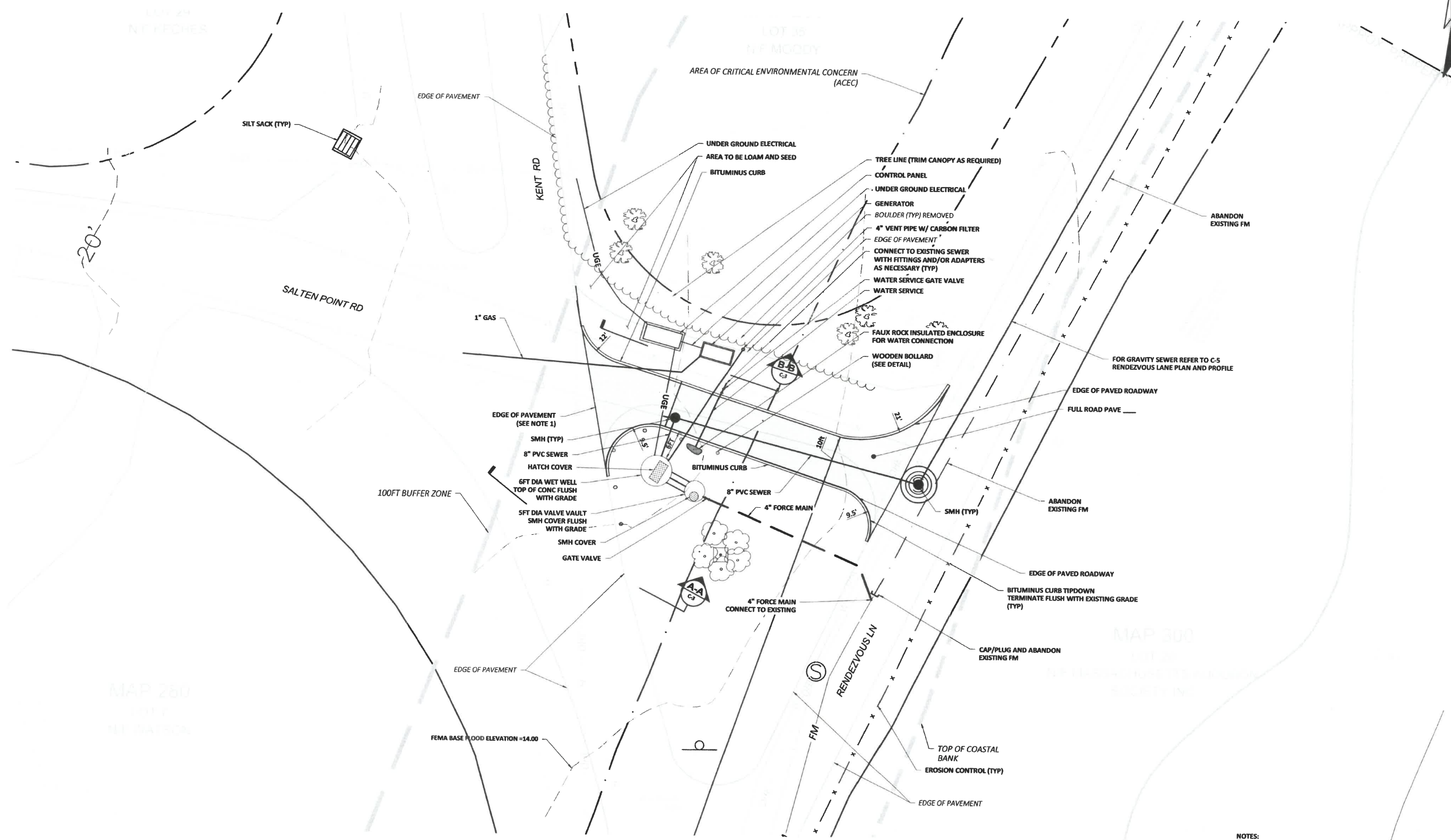
DRAWING  
C-1





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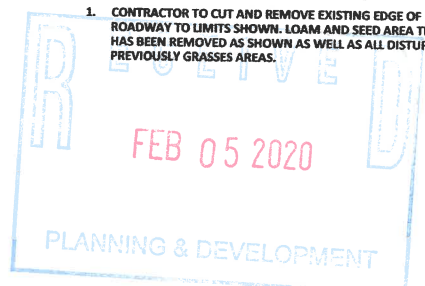
**PUMP STATION SITE PLAN**

SCALE: 1"=10'



**NOTES:**

- CONTRACTOR TO CUT AND REMOVE EXISTING EDGE OF ROADWAY TO LIMITS SHOWN. LOAM AND SEED AREA THAT HAS BEEN REMOVED AS SHOWN AS WELL AS ALL DISTURBED PREVIOUSLY GRASSES AREAS.



NO.	DATE	DESCRIPTION
1		
2		
3		
4		
5		
6		
7		
8		
9		
10		

DESIGNED BY: D.C.O.S.  
 CAD COORD.: D.SAV  
 CHECKED BY: K.O.L.S.  
 DATE: 01/10/20  
 APPROVED BY: K.O.L.S.  
 DATE: 2/3/20  
 PROJECT NO.: 20099



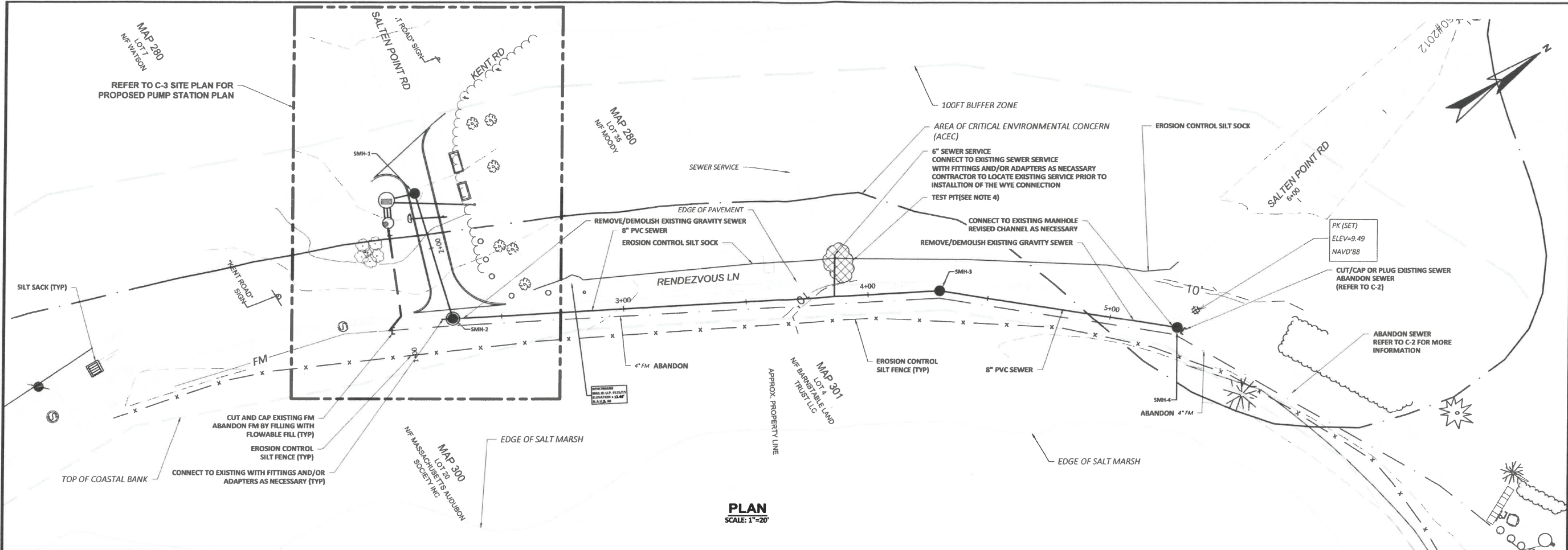
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TOWN OF BARNSTABLE, MA  
 RENDEZVOUS LANE  
 WASTEWATER PUMP STATION  
 REPLACEMENT  
 SITE PLAN

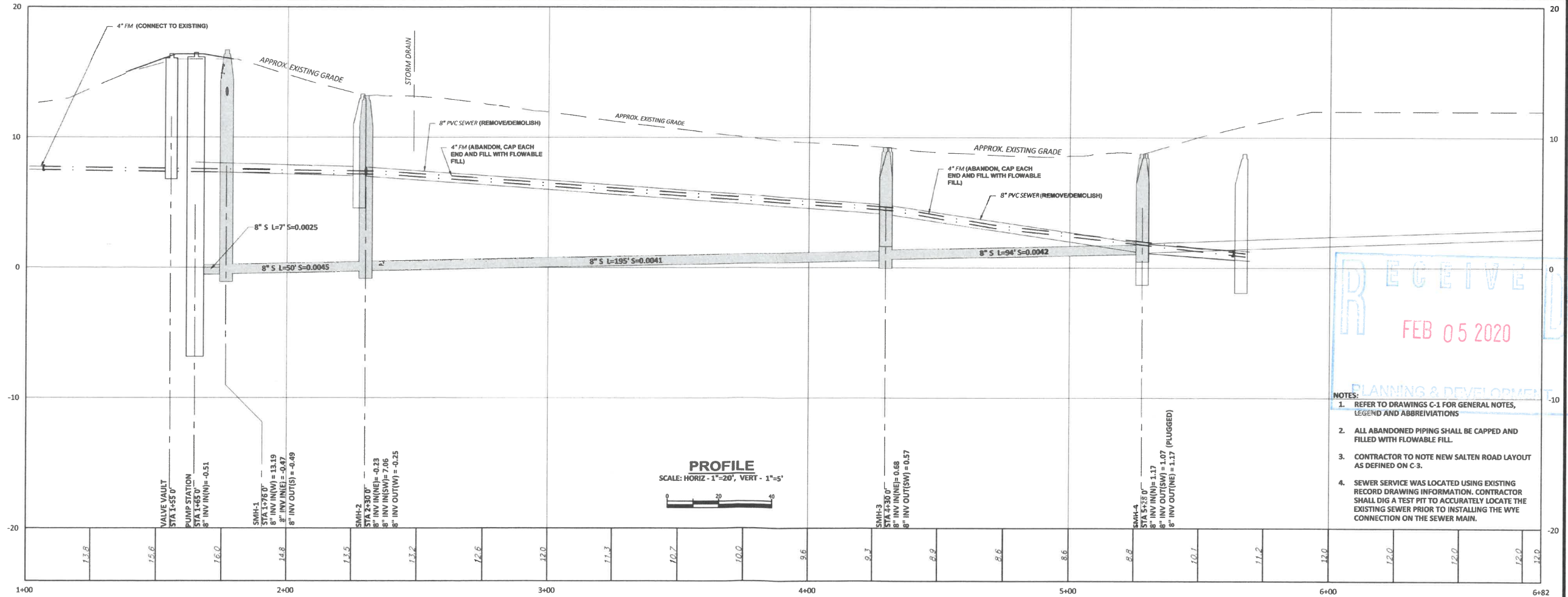


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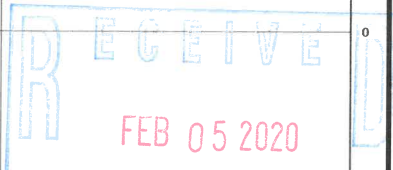
**PLAN**  
SCALE: 1"=20'



**PROFILE**  
SCALE: HORIZ - 1"=20', VERT - 1"=5'

**NOTES:**

- REFER TO DRAWINGS C-1 FOR GENERAL NOTES, LEGEND AND ABBREVIATIONS
- ALL ABANDONED PIPING SHALL BE CAPPED AND FILLED WITH FLOWABLE FILL
- CONTRACTOR TO NOTE NEW SALTEN ROAD LAYOUT AS DEFINED ON C-3.
- SEWER SERVICE WAS LOCATED USING EXISTING RECORD DRAWING INFORMATION. CONTRACTOR SHALL DIG A TEST PIT TO ACCURATELY LOCATE THE EXISTING SEWER PRIOR TO INSTALLING THE WYE CONNECTION ON THE SEWER MAIN.



NO.	DATE	DESCRIPTION

DESIGNED BY: D.COS  
 CAD COORD.: D.SAV  
 CHECKED BY: K.OLS  
 DATE: 01/20/20  
 APPROVED BY: K.OLS  
 DATE: 2/3/20  
 PROJECT NO.: 20099



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TOWN OF BARNSTABLE, MA  
 RENDEZVOUS LANE  
 WASTEWATER PUMP STATION  
 REPLACEMENT  
 RENDEZVOUS LANE PLAN AND PROFILE  
**DRAWING**  
 C-5





**EROSION AND SEDIMENTATION CONTROL NOTES**

THIS PLAN HAS BEEN DEVELOPED AS A STRATEGY TO CONTROL SOIL EROSION AND SEDIMENTATION DURING AND AFTER CONSTRUCTION. THIS PLAN IS BASED ON THE STANDARDS AND SPECIFICATIONS FOR EROSION PREVENTION IN URBAN AND SUBURBAN AREAS AS CONTAINED IN THE "MASSACHUSETTS EROSION AND SEDIMENT CONTROL GUIDELINES FOR URBAN AND SUBURBAN AREAS", FRANKLIN, HAMPDEN, HAMPSHIRE CONSERVATION DISTRICTS, DATED MARCH, 1997.

THE PROPOSED LOCATIONS OF SILTATION AND EROSION CONTROL STRUCTURES REQUIRED FOR THE PUMP STATION AND WATER METERING STATION ARE SHOWN ON THE GRADING/EROSION CONTROL PLANS. PROVIDE SILT FENCE, STONE CHECK DAMS AND OTHER EROSION CONTROL MEASURES AS REQUIRED TO ADEQUATELY PREVENT SEDIMENT TRANSPORT AS NOTED IN THE BMP.

- ALL SEDIMENT AND EROSION CONTROL MEASURES SHALL BE DONE IN ACCORDANCE WITH THE "MASSACHUSETTS EROSION AND SEDIMENT CONTROL GUIDELINES FOR URBAN AND SUBURBAN AREAS", FRANKLIN, HAMPDEN, HAMPSHIRE CONSERVATION DISTRICTS, DATED MARCH, 1997.
- THOSE AREAS UNDERGOING ACTUAL CONSTRUCTION WILL BE MAINTAINED IN AN UNTREATED OR UNVEGETATED CONDITION FOR THE MINIMUM TIME REQUIRED. IN GENERAL, AREAS TO BE VEGETATED SHALL BE PERMANENTLY STABILIZED WITHIN 15 DAYS OF FINAL GRADING AND TEMPORARILY STABILIZED WITHIN 30 DAYS OF INITIAL DISTURBANCE OF THE SOIL.
- SEDIMENT BARRIERS (SILT FENCE, STONE CHECK DAMS, ETC.) SHOULD BE INSTALLED PRIOR TO ANY SOIL DISTURBANCE OF UPGRADIENT DRAINAGE AREAS.
- INSTALL SILT FENCE AT TOE OF SLOPES TO FILTER SILT FROM RUNOFF. SEE SILT FENCE DETAIL FOR PROPER INSTALLATION. SILT FENCE WILL REMAIN IN PLACE PER NOTE #5.
- ALL EROSION CONTROL STRUCTURES WILL BE INSPECTED, REPLACED AND/OR REPAIRED EVERY 7 DAYS AND IMMEDIATELY FOLLOWING ANY SIGNIFICANT RAINFALL OR SNOW MELT OR WHEN NO LONGER SERVICEABLE DUE TO SEDIMENT ACCUMULATION OR DECOMPOSITION. SEDIMENT DEPOSITS MUST BE REMOVED WHEN DEPOSITS REACH APPROXIMATELY ONE HALF THE HEIGHT OF THE BARRIER. SEDIMENT CONTROL DEVICES SHALL REMAIN IN PLACE AND BE MAINTAINED BY THE CONTRACTOR UNTIL AREAS UPSLOPE ARE PERMANENTLY STABILIZED.
- NO SLOPES, EITHER PERMANENT OR TEMPORARY, SHALL BE STEEPER THAN TWO HORIZONTAL TO ONE VERTICAL (2 TO 1) UNLESS STABILIZED WITH PERMANENT EROSION CONTROL MEASURES.
- IF FINAL SEEDING OF THE DISTURBED AREAS IS NOT TO BE COMPLETED 30 DAYS PRIOR TO THE ANTICIPATED DATE OF THE FIRST KILLING FROST, USE TEMPORARY MULCHING (DORMANT SEEDING MAY BE ATTEMPTED AS WELL) TO PROTECT THE SITE AND DELAY PERMANENT SEEDING, UNTIL UPGRADIENT AREAS ARE STABILIZED.
- WHEN FEASIBLE, TEMPORARY SEEDING OF DISTURBED AREAS THAT HAVE NOT BEEN FINISH GRADED SHALL BE COMPLETED 30 DAYS PRIOR TO THE FIRST KILLING FROST.
- DURING THE CONSTRUCTION PHASE, INTERCEPTED SEDIMENT WILL BE RETURNED TO THE SITE AND REGRADED ONTO OPEN AREAS. POST SEEDING SEDIMENT, IF ANY, WILL BE DISPOSED OF IN AN ACCEPTABLE MANNER.
- REVEGETATION MEASURES WILL COMMENCE UPON COMPLETION OF CONSTRUCTION EXCEPT AS NOTED ABOVE. ALL DISTURBED AREAS NOT OTHERWISE STABILIZED WILL BE GRADED, SMOOTHED, AND REVEGETATED AS FOLLOWS:
  - A MINIMUM OF FOUR (4) INCHES OF LOAM WILL BE SPREAD OVER DISTURBED AREAS AND SMOOTHED TO A UNIFORM SURFACE.
  - APPLY LIMESTONE AND FERTILIZER ACCORDING TO SOIL TEST. IF SOIL TESTING IS NOT DEEMED FEASIBLE ON SMALL OR VARIABLE SITES, OR WHERE TIMING IS CRITICAL, FERTILIZER MAY BE APPLIED AT THE RATE OF 800 POUNDS PER ACRE OR 18.4 POUNDS PER 1,000 SQUARE FEET USING 10-20-20 (N-P205-K20) OR EQUIVALENT. APPLY GROUND LIMESTONE (EQUIVALENT TO 50% CALCIUM PLUS MAGNESIUM OXIDE) AT A RATE OF 3 TONS PER ACRE (138 LB PER 1,000 SQ. FT.).
  - FOLLOWING SEED BED PREPARATION, DITCHES AND BACK SLOPES WILL BE SEED WITH A MIXTURE OF 47% CREEPING RED FESCUE, 5% REDTOP, AND 48% TALL FESCUE. THE LAWN AREAS WILL BE SEED WITH A PREMIUM TURF MIXTURE OF 44% KENTUCKY BLUEGRASS, 44% CREEPING RED FESCUE, AND 12% PERENNIAL RYE GRASS. SEEDING RATE IS 3.0 LBS PER 1000 SQ. FT. LAWN QUALITY SOD MAY BE SUBSTITUTED FOR SEED.
  - HAY MULCH AT THE RATE OF 70-90 LBS PER 1000 SQUARE FEET OR A HYDRO-APPLICATION OF CELLULOSE FIBER SHALL BE APPLIED FOLLOWING SEEDING. A SUITABLE BINDER WILL BE USED ON HAY MULCH FOR WIND CONTROL.
- ALL TEMPORARY EROSION CONTROL MEASURES SHALL BE REMOVED ONCE THE WORK AREA IS STABILIZED.
- WETLANDS (EXCEPTING THOSE WHICH ARE TO BE FILLED IN ACCORDANCE WITH STATE AND FEDERAL REGULATIONS) WILL BE PROTECTED WITH SILT FENCE INSTALLED AT THE EDGE OF THE WETLAND OR THE BOUNDARY OF WETLAND DISTURBANCE.
- IN GENERAL, AREAS WITHIN 100 FEET OF DELINEATED WETLANDS OR STREAMS SHALL HAVE A MAXIMUM PERIOD OF EXPOSURE OF NOT MORE THAN 15 DAYS.
- FOLLOW APPROPRIATE EROSION CONTROL MEASURES PRIOR TO EACH STORM IN ALL AREAS WITHIN 100 FEET OF DELINEATED WETLANDS OR STREAMS.

**EROSION CONTROL DURING WINTER CONSTRUCTION**

- WINTER CONSTRUCTION PERIOD DEFINED: NOVEMBER 1 THROUGH APRIL 15.
- WINTER EXCAVATION AND EARTHWORK SHALL BE DONE SUCH THAT NO MORE THAN 1 ACRE OF THE SITE IS WITHOUT STABILIZATION AT ANY ONE TIME.
- EXPOSED AREA SHOULD BE LIMITED TO THAT WHICH CAN BE MULCHED IN ONE DAY PRIOR TO ANY PRECIPITATION EVENT.
- AN AREA SHALL BE CONSIDERED TO HAVE BEEN STABILIZED WHEN EXPOSED SURFACES HAVE BEEN EITHER MULCHED WITH STRAW OR HAY AT A RATE OF 100 POUNDS PER 1,000 SQUARE FEET (WITH OR WITHOUT SEEDING) OR DORMANT SEED, MULCHED, AND ADEQUATELY ANCHORED BY AN APPROVED ANCHORING TECHNIQUE. IN ALL CASES, MULCH SHALL BE APPLIED SUCH THAT SOIL SURFACE IS NOT VISIBLE THROUGH THE MULCH.
- BETWEEN THE DATES OF OCTOBER 15 AND APRIL 1, LOAM OR SEED WILL NOT BE REQUIRED. DURING PERIODS OF ABOVE-FREEZING TEMPERATURES, THE SLOPES SHALL BE FINE GRADED AND EITHER PROTECTED WITH MULCH OR TEMPORARILY SEEDED AND MULCHED UNTIL SUCH TIME AS THE FINAL TREATMENT CAN BE APPLIED. IF THE DATE IS AFTER NOVEMBER 1 AND IF THE EXPOSED AREA HAS BEEN LOAMED, FINAL GRADED, AND IS SMOOTH, THEN THE AREA MAY BE DORMANT SEED AT A RATE 200%-300% HIGHER THAN SPECIFIED FOR PERMANENT SEED AND THEN MULCHED. IF CONSTRUCTION CONTINUES DURING FREEZING WEATHER, ALL EXPOSED AREAS SHALL BE GRADED BEFORE FREEZING AND THE SURFACE TEMPORARILY PROTECTED FROM EROSION BY THE APPLICATION OF MULCH. SLOPES SHALL NOT BE LEFT EXPOSED OVER THE WINTER OR ANY OTHER EXTENDED TIME OF WORK SUSPENSION UNLESS TREATED IN THE ABOVE MANNER. UNTIL SUCH TIME AS WEATHER CONDITIONS PERMIT, ALL DITCHES TO BE FINISHED WITH THE PERMANENT SURFACE TREATMENT. EROSION SHALL BE CONTROLLED BY THE INSTALLATION OF BALES OF HAY OR STONE CHECK DAMS IN ACCORDANCE WITH THE STANDARD DETAILS.
- A) BETWEEN THE DATES OF NOVEMBER 1 AND APRIL 15, ALL MULCH SHALL BE EITHER WOOD CELLULOSE FIBER OR BE ANCHORED WITH MULCH NETTING OR CHEMICAL TACK.
  - MULCH NETTING SHALL BE USED TO ANCHOR MULCH IN ALL DRAINAGE WAYS WITH A SLOPE GREATER THAN 3%, FOR SLOPES EXPOSED TO DIRECT WINDS AND FOR ALL OTHER SLOPES GREATER THAN 8%.
  - MULCH NETTING SHALL BE USED TO ANCHOR MULCH IN ALL AREAS WITH SLOPES GREATER THAN 15%. AFTER OCTOBER 1, THE SAME APPLIES FOR ALL SLOPES GREATER THAN 8%.
- AFTER NOVEMBER 1, THE CONTRACTOR SHALL APPLY DORMANT SEEDING OR MULCH AND ANCHORING ON ALL BARE EARTH AT THE END OF EACH WORKING DAY.
- DURING WINTER CONSTRUCTION PERIODS, ALL SNOW SHALL BE REMOVED FROM AREAS OF SEEDING AND MULCHING PRIOR TO PLACEMENT.

**MULCH ANCHORING**

ANCHOR MULCH WITH: MULCH NETTING (AS PER MANUFACTURER); ASPHALT EMULSION (0.05 GALLONS PER SQ. YD.); CHEMICAL TACK (AS PER MANUFACTURER'S SPECIFICATIONS); OR BE WOOD CELLULOSE FIBER (2000 LBS/ACRE). WETTING FOR SMALL AREAS AND ROAD DITCHES MAY BE PERMITTED.

**ADDITIONAL TEMPORARY SEED MIXTURE (OR PERIODS LESS THAN 12 MONTHS)**

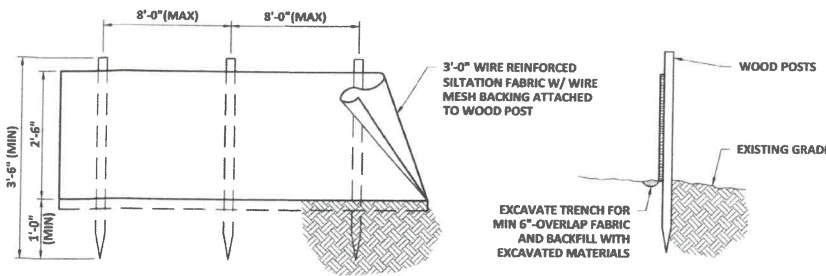
DATES	SEED	RATE
4/1/02 - 7/1/02	OATS	80 LBS/ACRE
8/15/02 - 9/15/02		
4/1/02 - 6/1/02	ANNUAL RYE GRASS	40 LBS/ACRE
(8/15/02 - 9/15/02)		
(8/15/02 - 10/15/02)	WINTER RYE	120 LBS/ACRE
(11/1/02 - 4/1/03)	MULCH W/ DORMANT SEED	80 LBS/ACRE*
(5/1/02 - 6/30/01)	FOXTAIL MILLET	30 LBS/ACRE

\*SEED RATE ONLY

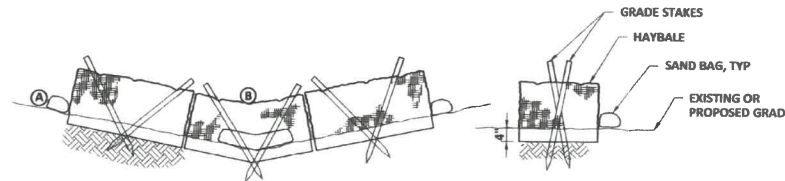
**MULCH AND MULCH ANCHORING**

LOCATION	MULCH	RATE (1000 S.F.)
PROTECTED AREA	STRAW OR HAY *	100 POUNDS
WINDY AREAS	STRAW OR HAY (ANCHORED) *	100 POUNDS
MODERATE TO HIGH VELOCITY AREAS OR STEEP SLOPES (GREATER THAN 3:1)	JUTE MESH,	AS REQUIRED
	EXCELSIOR MAT OR EQUIV.	AS REQUIRED

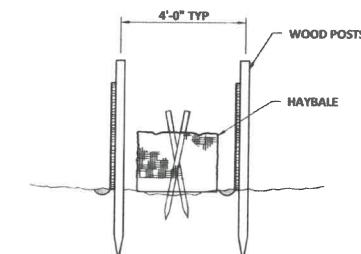
\* A HYDRO-APPLICATION OF CELLULOSE FIBER MAY BE APPLIED FOLLOWING SEEDING. A SUITABLE BINDER SHALL BE USED ON HAY MULCH FOR WIND CONTROL.



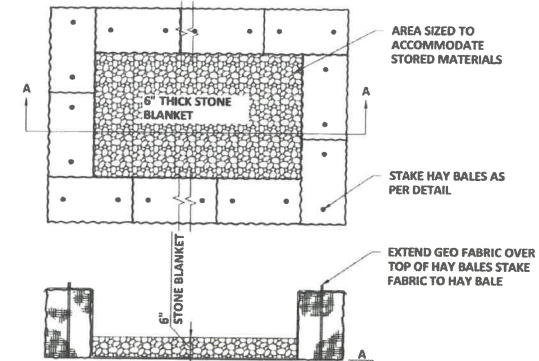
**SILT FENCE INSTALLATION DETAIL**  
SCALE: "NTS"



**HAY BALE CHECK DAM**  
SCALE: "NTS"

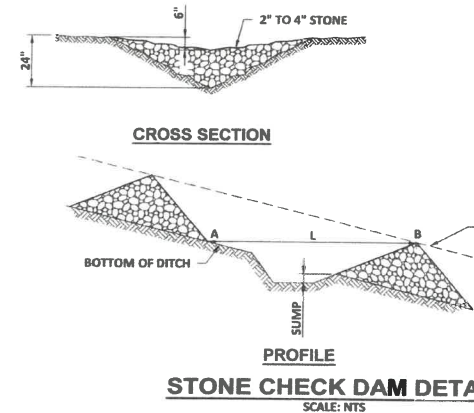


**COMBINATION SILT FENCE AND HAY BALE BARRIER**  
SCALE: "NTS"

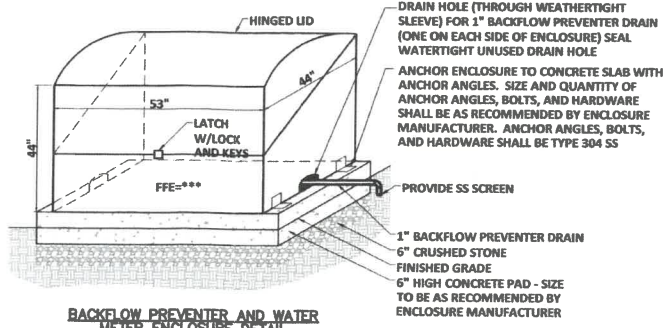


**TEMPORARY HAY BALE SEDIMENT BASIN**  
SCALE: "NTS"

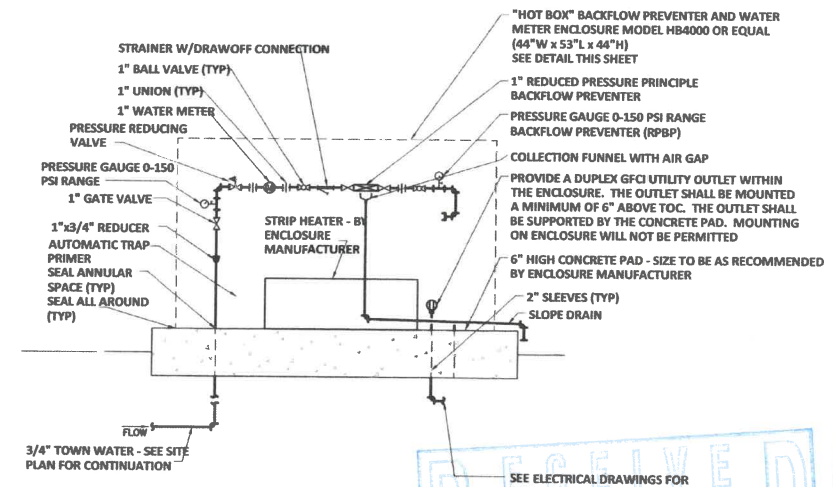
DITCH SLOPE (FT/FT)	L (FT)
0.020	100
0.030	66
0.040	50
0.050	40
0.080	25
0.100	20
0.120	17
0.150	13



**STONE CHECK DAM DETAIL**  
SCALE: "NTS"



**BACKFLOW PREVENTER AND WATER METER ENCLOSURE DETAIL**  
NTS



**BACKFLOW PREVENTER AND WATER METER DETAIL**  
NTS BY OTHERS

RECEIVED  
FEB 05 2020  
PLANNING & DEVELOPMENT

DESIGNED BY: D. COS  
CAD COORD.: D. SAV  
CAD: D. SAV  
CHECKED BY: K. OLS  
DATE: 01/10/20  
APPROVED BY: K. OLS  
DATE: 2/14/20  
PROJECT NO.: 20099

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REPLACEMENT

DETAILS III

DRAWING  
C-8