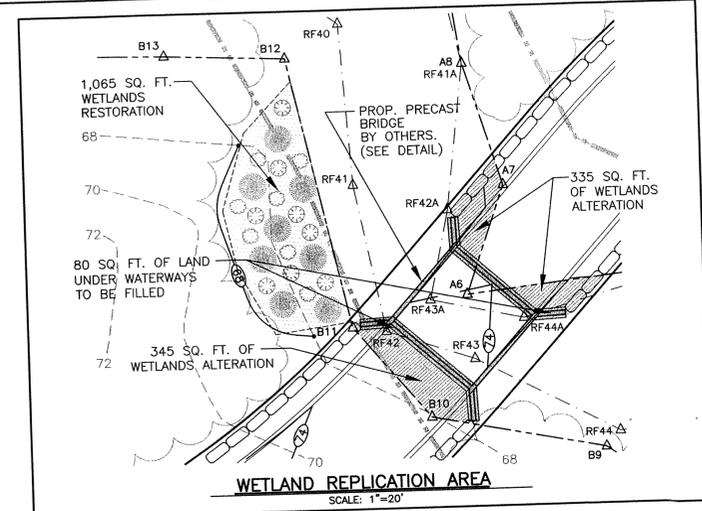
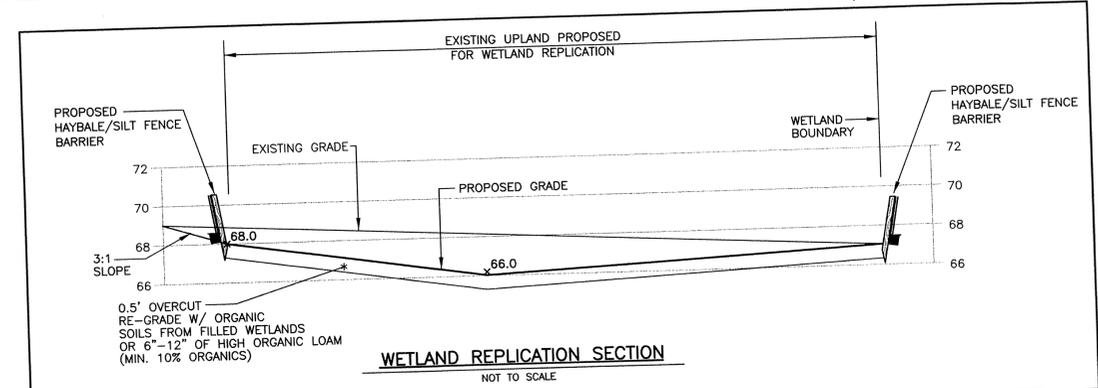
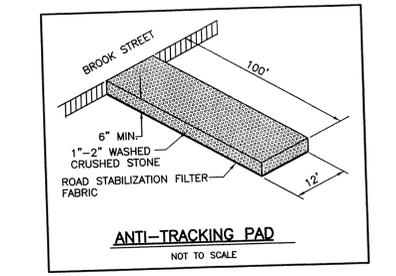
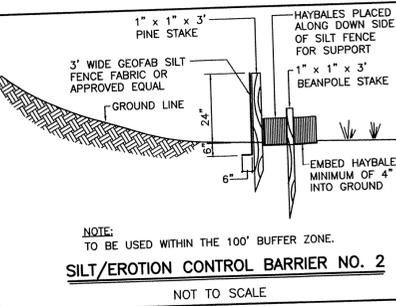
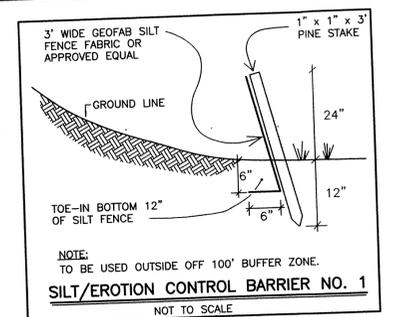


EROSION AND SEDIMENT CONTROL PLAN
SCALE: 1" = 40'

PRECAST BRIDGE CONSTRUCTION SEQUENCE:

- 1.) PREPARE THE AREA OF THE WETLANDS CROSSING LOCATED BETWEEN BROOK STREET AND THE LIMIT OF THE 200' RIVERFRONT AREA AT STA. 3+75+ BY PERFORMING THE FOLLOWING:
 - A.) STAKE THE SILTATION CONTROL BARRIER / LIMIT OF WORK LINE IN THE FIELD.
 - B.) PRIOR TO INSTALLING THE SILTATION CONTROL BARRIER AND SAND BAG DAM, NOTIFY THE SEEKONK CON. COMM. SO THE LOCATION CAN BE INSPECTED.
 - C.) INSTALL THE SAND BAG DAM ON THE SOUTH SIDE OF THE STREAM.
 - D.) INSTALL SILTATION CONTROL DEVICES AROUND ENTIRE LIMIT OF WORK.
 - E.) CUT ALL TREES AND SHRUBS WITHIN THE LIMIT OF WORK AND REMOVE FROM THE SITE.
 - F.) REMOVE ALL TREE STUMPS WITHIN THE LIMIT OF WORK AND REMOVE FROM THE SITE.
 - G.) PREPARE THE STOCKPILE LOCATIONS BY ENCLOSING THE DESIGNATED AREAS WITH A DOUBLE ROW OF HAYBALES.
 - H.) REMOVE THE ORGANIC TOPSOIL FROM THE LIMIT OF WORK AND STOCKPILE IN THE DESIGNATED AREAS.
- 2.) CONSTRUCT THE NORTH SIDE END WALL OF THE BRIDGE BY PERFORMING THE FOLLOWING:
 - A.) CONSTRUCT THE TEMPORARY STONE STABILIZED ANTI-TRACKING PAD AS SHOWN.
 - B.) CONSTRUCT THE TEMPORARY SEDIMENT REMOVAL BASIN AND SWALE AS SHOWN.
 - C.) EXCAVATE A 4' WIDE TRENCH AT THE LOCATION OF THE END AND WING WALLS AND STOCKPILE ALL EXCAVATED SUBSOIL.
 - D.) PLACE 12" OF 3/4" TO 1-1/2" WASHED STONE AT THE BOTTOM OF THE TRENCH AND POUR FOOTING TO DESIRED ELEVATION.
 - E.) BACKFILL WITH COMPACTED 6" LIFTS USING THE STOCKPILED SUBSOIL.
 - F.) PLACE PRECAST END SECTION BY CONCRETE SYSTEMS INC. ON FOOTINGS.
 - G.) CONSTRUCT REDI-ROCK RETAINING WALL ALONG BOTH SIDES OF THE ACCESS AS SHOWN.
 - H.) BACKFILL THE AREA WITHIN WALLS WITH SUITABLE MATERIAL WHILE REMOVING ALL BUT THE FIRST 25' OF THE ANTI-TRACKING PAD ADJACENT TO BROOK STREET.
 - I.) REMOVE ALL THE UNUSED STOCKPILED MATERIAL AND THE DOUBLE ROW OF HAYBALES.
- 3.) CONSTRUCT THE SOUTH SIDE END WALL OF THE BRIDGE USING THE EXISTING CART PATH OFF OF NEWMAN AVENUE FOR ACCESS BY PERFORMING THE FOLLOWING:
 - A.) CONSTRUCT THE TEMPORARY SEDIMENT REMOVAL BASIN AND SWALE AS SHOWN.
 - B.) EXCAVATE A 4' WIDE TRENCH AT THE LOCATION OF THE END AND WING WALLS AND STOCKPILE ALL EXCAVATED SUBSOIL.
 - C.) PLACE 12" OF 3/4" TO 1-1/2" WASHED STONE AT THE BOTTOM OF THE TRENCH AND POUR FOOTING TO DESIRED ELEVATION.
 - D.) BACKFILL WITH COMPACTED 6" LIFTS USING THE STOCKPILED SUBSOIL.
 - E.) PLACE PRECAST END SECTION BY CONCRETE SYSTEMS INC. ON FOOTINGS.
 - F.) CONSTRUCT THE 1:1 RIP-RAP BANK ALONG THE FACE OF THE END AND WING WALLS.
 - G.) CONSTRUCT REDI-ROCK RETAINING WALL ALONG BOTH SIDES OF THE ACCESS AS SHOWN.
 - H.) BACKFILL THE AREA WITHIN WALLS WITH SUITABLE MATERIAL.
 - I.) REMOVE ALL THE UNUSED STOCKPILED MATERIAL AND THE DOUBLE ROW OF HAYBALES.
 - J.) PLACE THE PRECAST BRIDGE UNIT BY CONCRETE SYSTEMS INC. ON THE END SECTIONS.



WETLAND REPLICATION AREA
SCALE: 1" = 20'

WETLANDS REPLICATION NARRATIVE

- 2.1 Objectives And Work Schedule**
- The overall objective is to replace 680 sf +/- of BW area with a similarly vegetated area totaling 1,065 SF +/- . The replication areas will be established within the first growing season (April14-Oct11) after the issuance of an Order of Conditions. This work will be considered complete if at least 67 percent of the planted vegetation is successfully established after the end of the second growing season.
- 2.2 Erosion Control**
- Prior to the beginning of the replication work, a haybale and silt fence erosion control barrier will be installed along and above the edge of BW, downgradient of all replication areas. The erosion control barriers will be constructed in accordance with the standard practice.
- 2.3 Excavation and Grading of Replication Areas**
- The organic topsoil within the replication areas will be removed and stockpiled within the contiguous upland areas. The subsoil will then be lowered one (1) foot below the surface elevation of the immediately upland areas. The resulting surface edge between the degraded replication area and the adjacent upland will be cut to a 3:1 slope. Next, the stockpiled organic topsoil will be regraded throughout the replication areas to the same elevation as the immediately adjacent wetlands. Where there is insufficient organic topsoil on-site for this purpose, additional material will be brought in from off-site. 6"-12" of high organic loam (min. 10% organics) in the bottom of the replication area.
- 2.4 Planting Specifications**
- Replication Area Species**
- Highbush Blueberry (8 plantings)
 - 2 Gallon Container Grown Stock
 - Tolerates full shade, requires acid soil pH 3.5-6.0.
 - Plant 6"-8" OC (slow rate of growth).
 - Wildlife value this setting - blue jay, black-capped chickadee, tufted titmouse, brown thrasher, eastern blue bird, orchard, oriole, pine grosbeak, scarlet tanager.
 - sweet Pepper Bush (6 plantings)
 - Gallon Container Grown Stock
 - Tolerates full shade, requires acid soil pH 3.5-6.0.
 - Plant 5"-8" OC (slow rate of growth).
 - Wildlife value this setting - blue jay, black-capped chickadee, tufted titmouse, brown thrasher, eastern blue bird, orchard, oriole, pine grosbeak, scarlet tanager.
 - Red Maple (5 plantings)
 - 2" Caliper B&B
 - Tolerates partial shade.
 - Plant 15 ft OC (medium to fast growth).
 - Wildlife value this setting - bobwhite, yellow-bellied sapsucker, cardinal, evening and pine grosbeaks, squirrels, chipmunk.
- All remaining disturbed areas shall be seeded with a wetland conservation seed mix suitable for wet environments.
- New England wet mix
 - 1 lb/2500 S.F.
 - Light mulch w/clean weed free straw.

- 2.6 Monitoring & Reporting**
- We propose to notify the Conservation Commission in writing within two weeks after completion of regrading and planting of the wetland replication area.
- 2.7 Quality Control**
- All work shall be carried out by a qualified nursery, under the direct supervision of a SITEC, Inc. wetlands scientist.
- Plant stock available multiple sources, including:
- Natural Resources Services, Inc. Colby Farms, P.O. Box 311 Harrisville, R.I. 02830
 - Pineland Nursery and Supply 323 Island Road Columbus, N.J. 08022
 - New England Wetland Plants, Inc. 800 Main Street Amherst, MA 01002
- NOTE:**
1. THE CONSERVATION AGENT IS TO BE NOTIFIED FOR AN INSPECTION WHEN THE EROSION CONTROLS HAVE BEEN INSTALLED AND PRIOR TO ANY OTHER EARTHWORK. BARRING UNFORESEEN CIRCUMSTANCES, THE AGENT WILL INSPECT THE SITE WITHIN 24-48 HOURS OF NOTIFICATION.
 2. THE CONSERVATION AGENT IS TO BE NOTIFIED FOR AN INSPECTION WHEN THE BOTTOM OF THE WETLAND REPLICATION AREAS HAVE BEEN EXCAVATED AND PRIOR TO PLACEMENT OF THE LOAM/HYDRIC SOILS; AT THAT TIME THE SOILS AND PLANTINGS TO BE USED IN THE REPLICATION AREAS WILL ALSO BE INSPECTED. BARRING UNFORESEEN CIRCUMSTANCES, THE AGENT WILL INSPECT WITHIN 24-48 HOURS OF NOTIFICATION.



Revision	Description	Date	By	App'd.
1	PER WOODARD AND CURRAN COMMENTS DATED 1-24-11	2-7-11	SDG	SDG
2	PER CON. COMM. & PLANNING BOARD COMMENTS	3-14-11	SDG	SDG
3	ADDED POST & RAIL FENCE AND FIRE ALARM BOX	4-5-11	SDG	SDG
4	REF. SEEKONK WATER DISTRICT COMMENTS	5-31-12	SDG	SDG
5	REVISED BRIDGE DETAILS / POST & RAIL FENCE LOCATION	6-25-12	SDG	SDG

AS SHOWN 12-1-10
JPT
SDG
SDG
5 of 6
DET-3

Project: "TALL PINES" ASSESSORS PLAT 25 LOT 3 NEWMAN AVENUE & BROOK STREET SEEKONK, MASSACHUSETTS

Client: STONE GATE BUILDERS, INC.

Sheet number: DET-3

SiteC, Inc. 100 River Road Danvers, MA 02747 (603) 998-2125 FAX: (603) 998-7554

Acad No. 10-4697 Details_3.dwg
File No. 10-4697 Stone Gate Bldg.