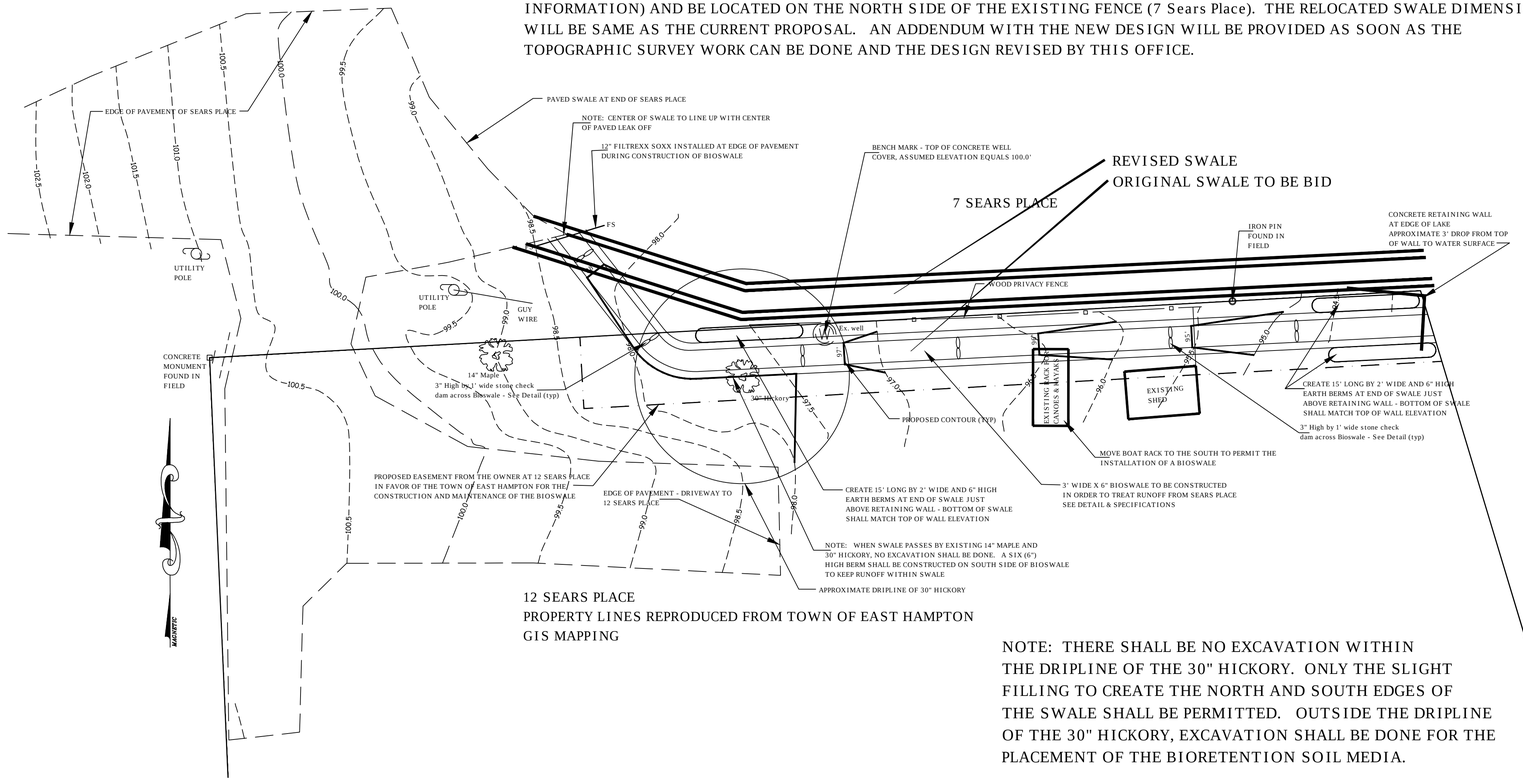
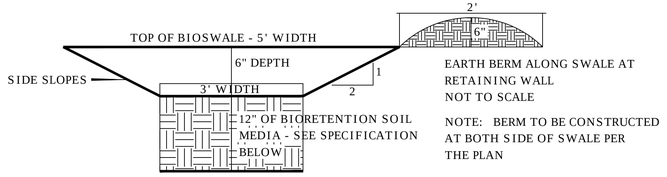
NOTE: CONTRACTOR SHALL PREPARE BID FOR SWALE LOCATED ON SOUTH SIDE OF FENCE LINE (12 Sears Place) AS SHOWN IN LIGHTER LINE. THE SWALE LOCATION WILL BE REVISED (BASED UPON ADDITIONAL FIELD TOPOGRAPHIC SURVEY INFORMATION) AND BE LOCATED ON THE NORTH SIDE OF THE EXISTING FENCE (7 Sears Place). THE RELOCATED SWALE DIMENSIONS WILL BE SAME AS THE CURRENT PROPOSAL. AN ADDENDUM WITH THE NEW DESIGN WILL BE PROVIDED AS SOON AS THE TOPOGRAPHIC SURVEY WORK CAN BE DONE AND THE DESIGN REVISED BY THIS OFFICE.



12 SEARS PLACE
PROPERTY LINES REPRODUCED FROM TOWN OF EAST HAMPTON GIS MAPPING

NOTE: THERE SHALL BE NO EXCAVATION WITHIN THE DRIPLINE OF THE 30" HICKORY. ONLY THE SLIGHT FILLING TO CREATE THE NORTH AND SOUTH EDGES OF THE SWALE SHALL BE PERMITTED. OUTSIDE THE DRIPLINE OF THE 30" HICKORY, EXCAVATION SHALL BE DONE FOR THE PLACEMENT OF THE BIORETENTION SOIL MEDIA.



EARTH BERM ALONG SWALE AT RETAINING WALL
NOT TO SCALE

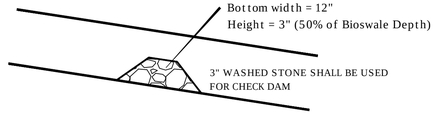
NOTE: BERM TO BE CONSTRUCTED AT BOTH SIDE OF SWALE PER THE PLAN

TYPICAL CROSS SECTION OF BIOSWALE
NOT TO SCALE

COMPOSITION OF SOIL MEDIA FOR BIORETENTION SYSTEM:
WASHED CONCRETE COARSE SAND (85% by volume)
WELL DECOMPOSED LEAF COMPOST (11% by volume)
SANDY TOPSOIL OR LOAM (4% by volume)**
** TOPSOIL OR LOAM SHALL HAVE LESS THAN 2.0% CLAY CONTENT

SEED MIXTURE FOR BIOSWALE

NEW ENGLAND CONSERVATION/WILDLIFE SEED MIXTURE BY NEW ENGLAND WETLAND PLANTS (www.newp.com):
VIRGINIA WILD RYE
LITTLE BLUESTEM
BIG BLUESTEM
RED FESCUE
SWITCH GRASS
PARTRIDGE PEA
INDIAN GRASS
SHOWY TICK TREFOIL
BUTTERFLY MILKWEED
BEGGAR TICKS
PURPLE JOE PYE WEED
BLACK EYED SUSAN
HEATH (OR HAIRY) ASTER
EARLY GOLDENROD
1 POUND PER 1,750 SQUARE FEET (APPLICATION RATE)



DETAIL OF FIELD STONE CHECK DAM IN BIOSWALE - NOT TO SCALE

CONSTRUCTION SEQUENCE FOR LOW IMPACT SUSTAINABLE DEVELOPMENT STORMWATER SYSTEMS:

1. Install Filtrexx Soxx at end of paved swale at the end of Sears Place.
2. Remove brush and small trees from the area of the proposed Bioswale. Shift existing boat rack to the south to permit the installation of the Bioswale.
3. Use mini-excavator to remove stumps from the woody vegetation which was removed. The stumps and other woody debris shall be removed from the site.
4. Use mini-excavator to excavate the area of the Bioswale to a depth of 1' below the finish ground elevation shown on the site plan, except for the area of the Bioswale which is located within the dripline of the 30" Oak tree. Existing grade will be maintain in this area and the 6" high berm will be constructed on the south side of the Bioswale as shown.
5. After the Bioswale has been excavated to the required subbase, the bottom of the Bioswale and vertical side walls shall be lightly raked with a metal garden rake to loosen any smeared soil. Any smeared soil shall be removed by hand shovel and placed outside the limit of the Bioswale.
6. The Bioretention soil media to be used in the Bioswale shall be placed in the Bioswale by the mini-excavator (excavator is not permitted within the limits of the Bioswale. The soil media shall be hand raked to be a uniform depth of 12" or so. The soil media shall be lightly compacted. After the soil media has been lightly compacted, the stone check dams shall be installed in those locations shown on the plans and in accordance with the detail shown on the plan.
7. The berms at the eastern end of the Bioswale shall be installed per the plan. All other disturbed areas outside the Bioswale shall be finished raked.
8. The Bioswale bottom, side slopes and other disturbed areas adjacent to the Bioswale shall be seeded with the seed mixture specified on this plan and covered with straw mulch. The areas shall be watered as necessary to ensure the germination of the seeds.
9. After vegetation has germinated and become established in and around the Bioswale, the Filtrexx Soxx at the end of the paved swale.

INITIAL MAINTENANCE REQUIREMENTS FOR BIOSWALE:

1. Water the seed mixture in the swales as needed to ensure the establishment of the vegetation.
2. Remove organic debris and leaves from the swales twice a year (late spring and late fall). Removed material shall be disposed of in a proper manner away from the lake area.

LONG TERM MAINTENANCE REQUIREMENTS FOR BIOSWALE:

1. System shall be inspected twice a year and non-native plants and weeds shall be removed as needed,
2. The perennial vegetation shall be cut back in Late October and the cut vegetation removed from the swale system and disposed off in a proper manner,
3. Accumulated leaves shall be removed from the swale system in the fall and spring as needed,
4. If there is visible accumulation of sediment on the surface of the soil media which is deeper than 1", then the accumulated sediment shall be removed by hand using a rake and shovel and disposed of away from the Bioswale. The surface of the Bioswale media shall be lightly raked to loosen the soil surface and restore the infiltrative surface by using a metal lawn rake so as not to disturb the healthy vegetation.

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LOW IMPACT SUSTAINABLE DEVELOPMENT
TRINKAUS ENGINEERING

STORMWATER RETROFIT

PROJECT #007-2020
SCALE: 1" = 10'
DATE: 2/20/2020

PREPARED FOR
TOWN OF EAST HAMPTON
7 SEARS PLACE
EAST HAMPTON - CONNECTICUT