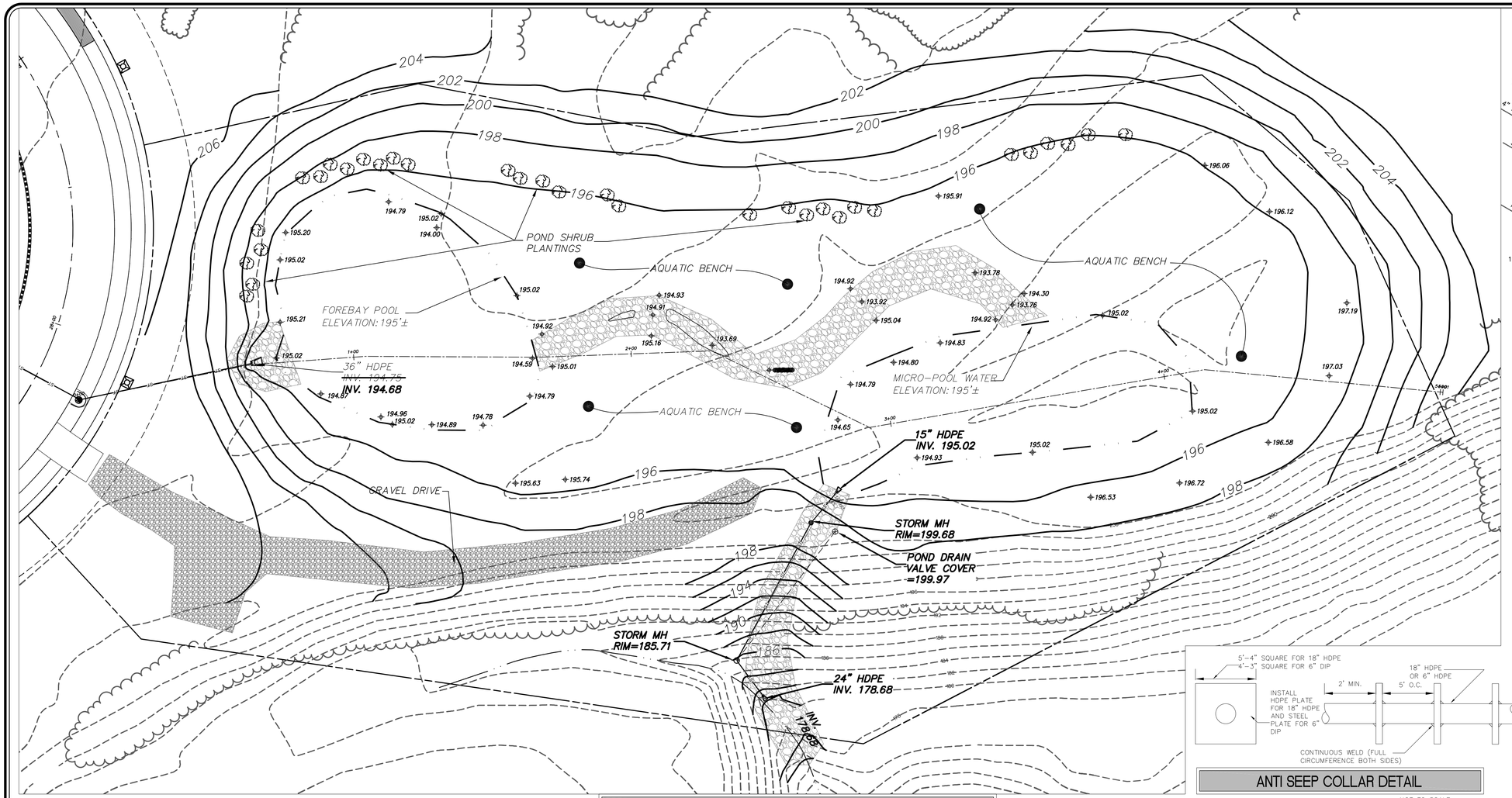
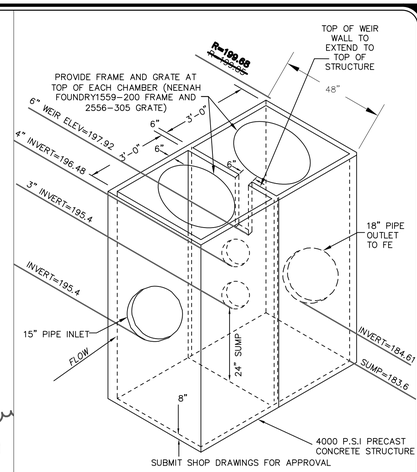
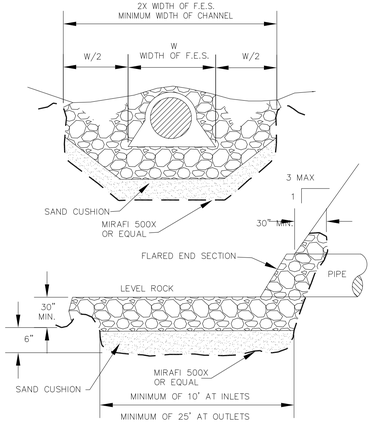


SWPPP BASIN PLAN



ORIFICE CONTROL STRUCTURE (P-1) DETAIL

NOT TO SCALE

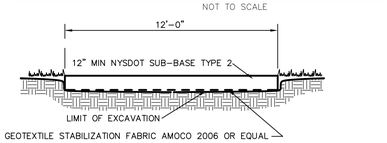


INVERT CHANNEL AND BENCHWALL DETAIL

NOT TO SCALE

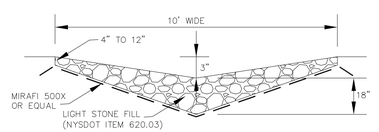
ANTI SEEP COLLAR DETAIL

NOT TO SCALE



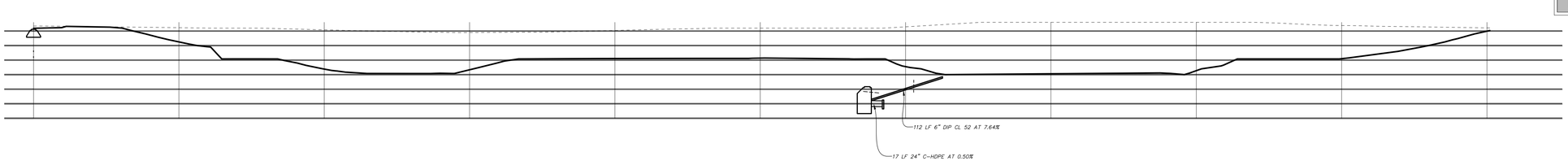
ACCESS ROAD CROSS SECTION DETAIL

NOT TO SCALE

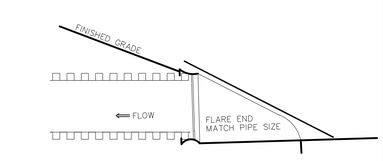


RIP-RAP PILOT CHANNEL SECTION DETAIL

NOT TO SCALE



SWPPP BASIN SECTION



POND OUTLET WIRE TRASH RACK DETAIL

NOT TO SCALE

WETLAND PLANTING NOTES

A planting plan calling for a variety of submergent and emergent plants is provided as shown on this sheet (Sheet C-6). These will be planted randomly within suitable areas to approximate natural conditions. Preparation will include providing a 6 inch layer of in-situ topsoil which is clay based and highly impervious but rich in nitrogen and phosphorous. Planting will be by seed, by plugs, container grown plants or nursery plants which will be delivered balled and burlapped

Ensure that the planting area is regularly graded with no serious undulations which can cause problems with watering after planting. Pre-irrigate the site before planting to ensure the entire soil profile is saturated.

After area to be seeded dries to a slightly moist condition, Mix and spread seed using a mechanical seeder. Rake to cover seed with ¼" of soil.

Plant plugs using the "Water Planting Method" – Flood the area to a depth of 2-4 inches. Dig the holes using a plug planter or a pointed shovel and place the plug. After placing the plug in the hole, stomp the soil tightly around it. Let the standing water evaporate off down to saturation with no standing water before allowing more water into the system. Depending on climate and daily maximum temperatures, this may take from 5-10 days. Plugs should be planted about 18-20 inches apart. At this spacing, the plants will grow together in one growing season. Plugs should be planted in the spring or the summer.

After planting, care must be taken not to drown the plants. Over the course of the first growing season, the level of the water in the wetland should be slowly increased. This will encourage the growth of the above ground biomass. The watering frequency should be based on rainfall and daily maximum temperatures. Generally, water should be filled to a 2-3 inch level then drained down naturally for the first month after planting. Drainage time should take about 1 week to 10 days. Refill the system for 15 to 20 days before draining again by controlling outfall level. During the second month, increase the filled level to about 6-8 inches by controlling outfall level. Use the same time frame as the first month. After that let natural variation of water level take place. The main factor is to keep the filled water level so that a majority of the plants need to have at least one quarter to one third of their tops above the waterline. Again, this allows the plants to "breathe."

Weed control will be necessary for the first growing season. Weeds (including invasive species such as Phragmites or purple loosestrife) must be controlled using hand pulling or through the wicking of weeds with approved chemicals.

Control small gully formation or rills during the plant establishment phase of the project.

Seeding and Mulching Notes:

A. For areas to be treated after grading
1. Seed areas after grading at proper season.
2. Utilize a seed mix of 70% Hard Fescue, 20% Perennial Ryegrass, 10% Kentucky Blue (Nassau or Challenger).Apply at 4 lbs. per 1000 S.F.
3. Treat areas with fiber mulch.

HERBACEOUS PLANTS SHALL BE MAINTAINED AND WARRANTED UNTIL ACCEPTANCE OR A MAXIMUM OF 3 MONTHS AFTER PLANTING. SHRUBS AND TREES SHALL BE MAINTAINED AND WARRANTED FOR 1 YEAR AFTER ACCEPTANCE

SANITARY SEWER, STORM SEWER AND HYDRANT & WATER VALVE TIE RECORD PLAN (LAST REVISED 10-25-12)

HERSHBERG & HERSHBERG
Consulting Engineers and Land Surveyors
18 Locust Street
Albany, New York 12203

REVISIONS		
REMARKS	GAS & ELEC	
DATE	5/11/11	

PUBLIC INFRASTRUCTURE CONSTRUCTION
VISTA TECHNOLOGY CAMPUS
TOWN OF BETHLEHEM
ALBANY COUNTY, STATE OF NEW YORK

FILE: 110027 | SCALE: H:1"=20' V:1"=5' | BY: WM | CHK: DRH | DATE: 2/18/11 | 110027-1.dwg

C6