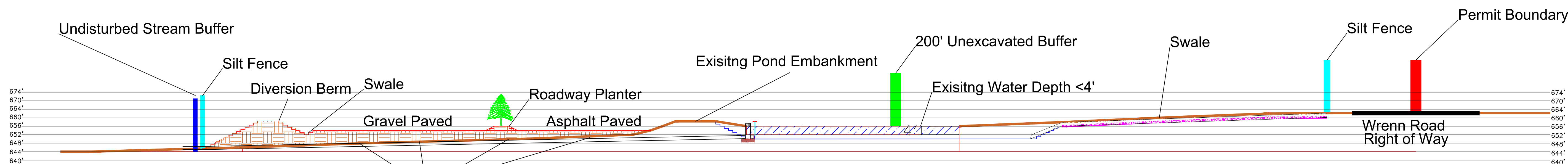


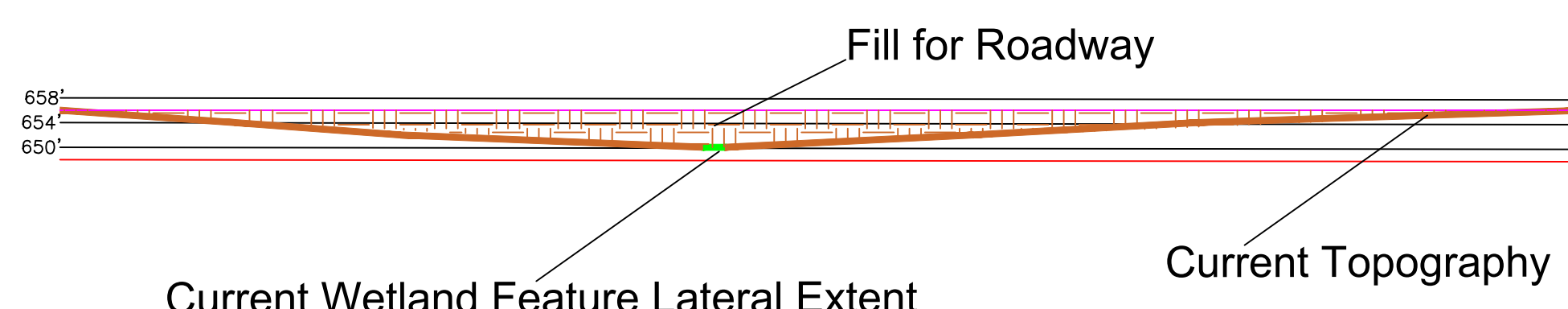
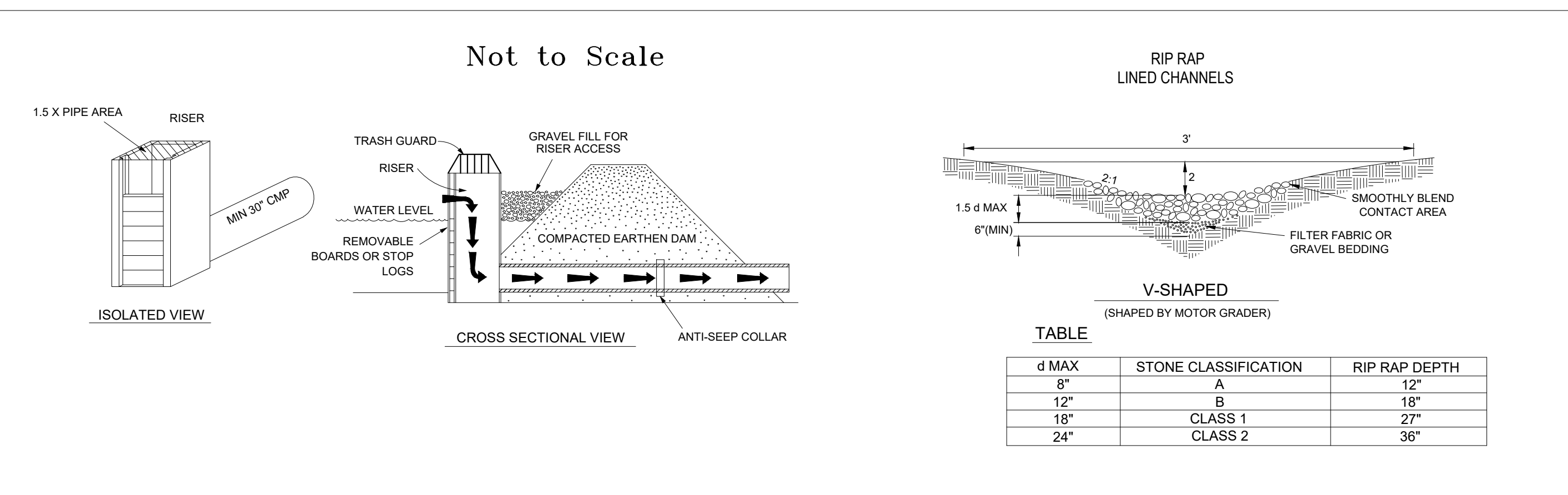
Horizontal Scale 1" = 25'

# Site Entrance Pond Refurbishment Design



Location of Wetland Impact fill of 4-feet total wetland impact 950-sqft or 0.022 acres Current Topography

Expansion of existing pond (cleanouts) to 6-foot permanent water level internal pond slopes designed and to be compacted to 2 to 1 slope installation of V-shaped Rip=Rap swale parallel to gated access road



Horizontal Scale 1" = 10'

## Creek Crossing Cross-Section and Details HF-1

Wetland Extent  
Total wetland impact 1,977-sqft or 0.05 acres

Pre-cast Concrete Blocks  
two courses high backfield behind with earthen fill

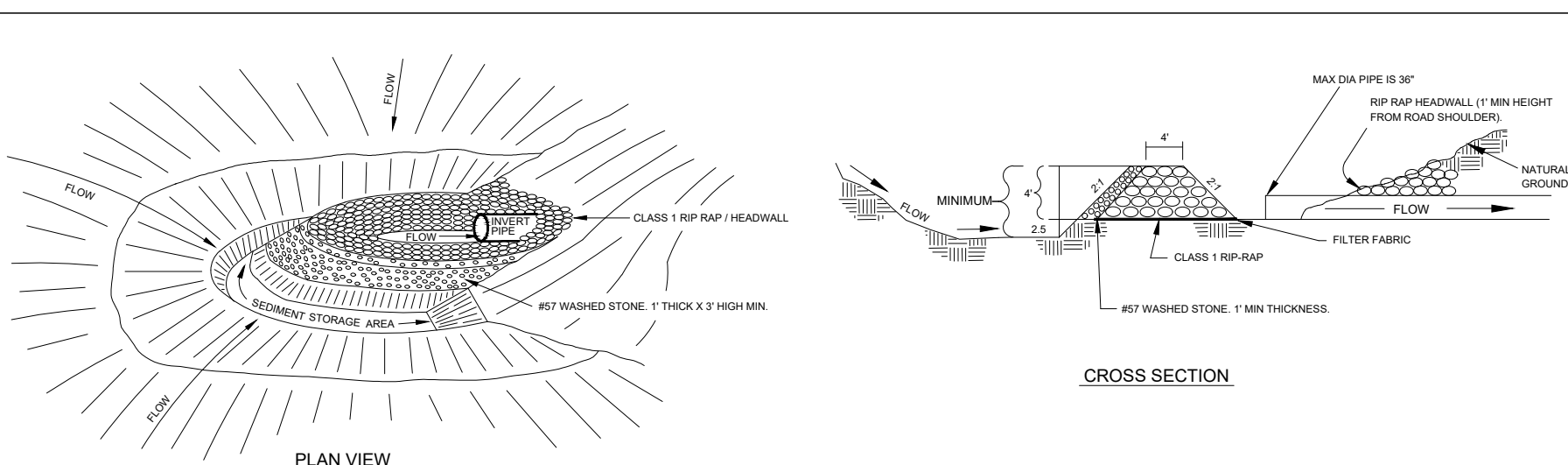
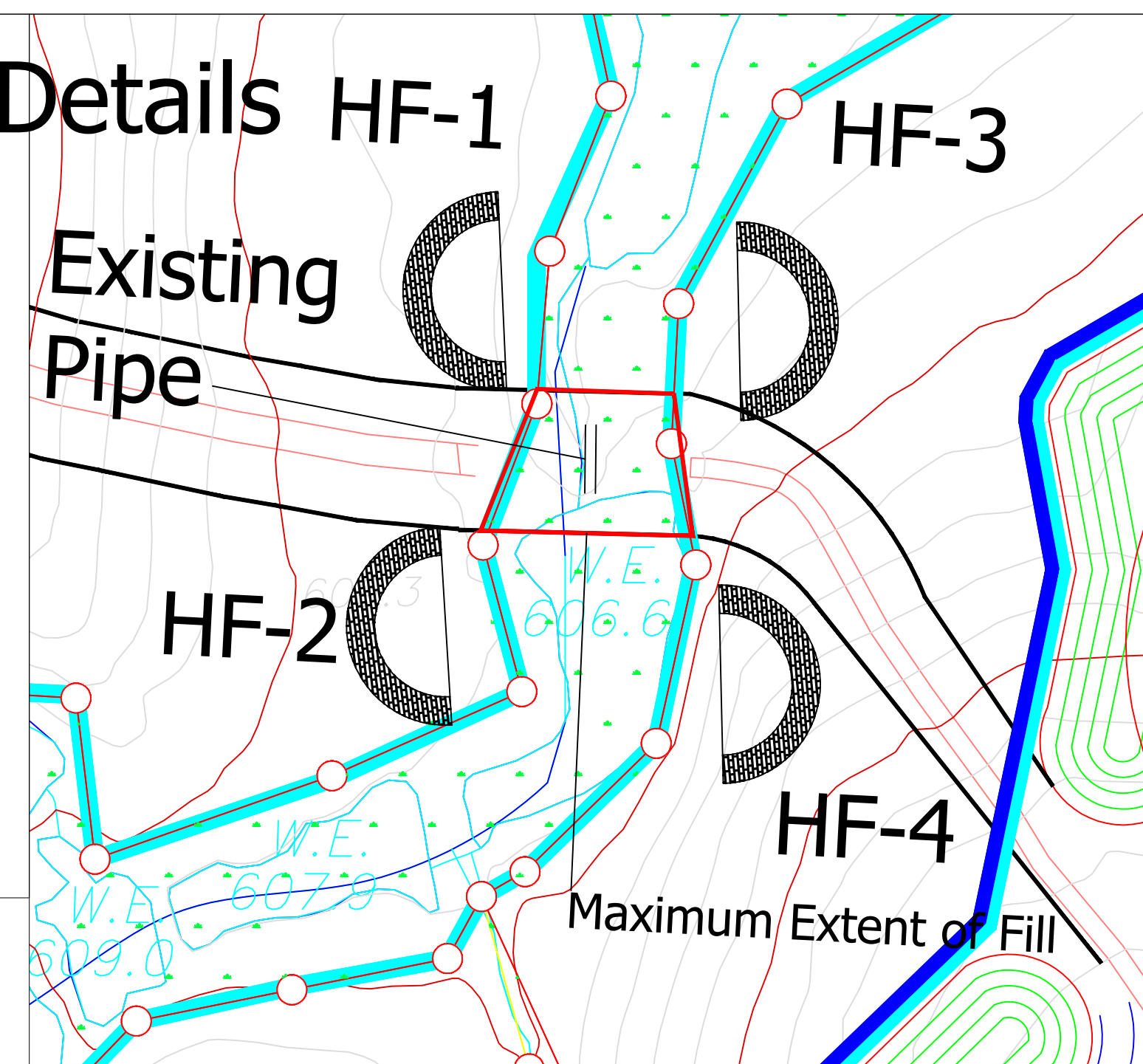
Existing Topography

Earthen Fill Covered by Class A Stone

FILTER FABRIC

Existing 36-inch CMP  
to be replaced with two (2) 48 inch CMP 40-foot in length  
Capacity of both pipes - bank full flow

626'  
622'  
618'  
614'  
610'  
606'  
602'  
598'

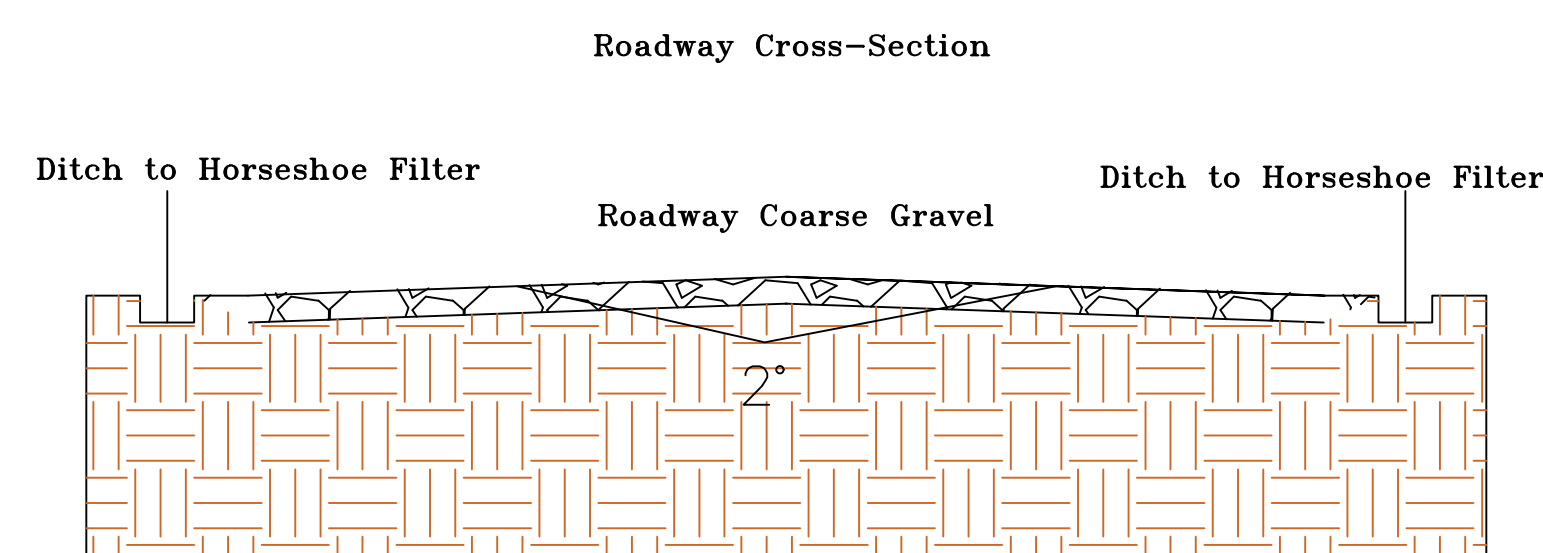
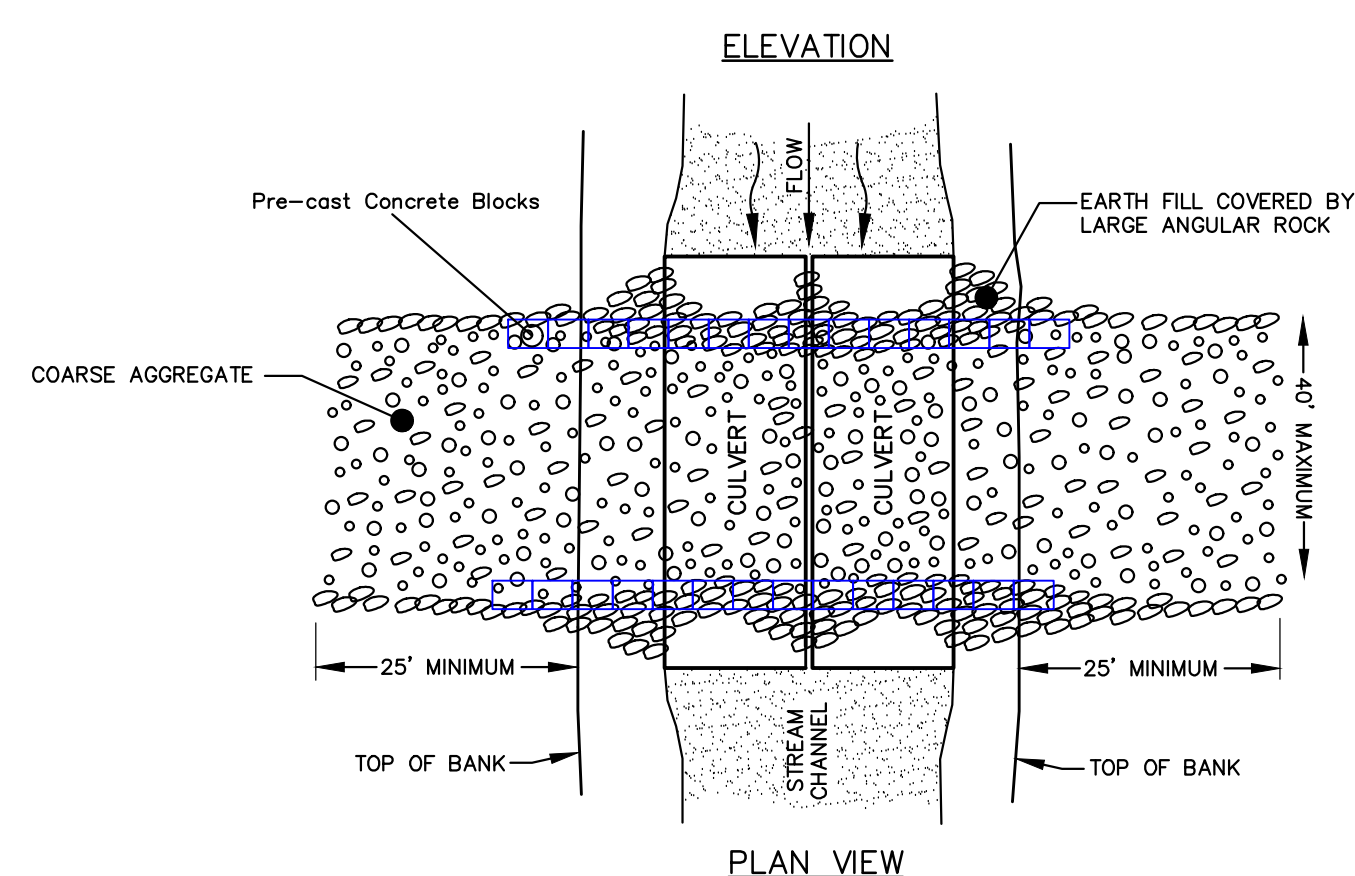


MAINTENANCE:  
REMOVE SEDIMENT & RESTORE THE SEDIMENT STORAGE AREA TO ITS ORIGINAL DIMENSION WHEN SEDIMENT HAS ACCUMULATED TO 1/2 DESIGN DEPTH OF THE TRAP.  
ANY RIP-RAP DISPLACED FROM THE STONE HEADWALL MUST BE REPLACED IMMEDIATELY.

NOTES:  
IF EXCAVATED STORAGE AREA IS USED AS TEMPORARY SEDIMENT TRAP, THE DESIGN CRITERIA FOR TEMPORARY SEDIMENT TRAP MUST BE SATISFIED.

DATA BLOCK

| BASIN NO. | DRAINAGE AREA (ACRES) | BASIN VOLUME REQUIRED (CUBIC FT.) | BASIN VOLUME PROVIDED (CUBIC FT.) | BASIN SURFACE AREA REQUIRED (SQ. FT.) | BASIN SURFACE AREA PROVIDED (SQ. FT.) | CLEANOUT DEPTH (FT.) H/2 | H (FEET) |
|-----------|-----------------------|-----------------------------------|-----------------------------------|---------------------------------------|---------------------------------------|--------------------------|----------|
| HF-1      | 1                     | 3,500                             | 3,750                             | 395                                   | 625                                   | 3                        | 6.5      |
| HF-2      | 1                     | 3,500                             | 3,750                             | 395                                   | 625                                   | 3                        | 6.5      |
| HF-3      | 1                     | 3,500                             | 3,750                             | 395                                   | 625                                   | 3                        | 6.5      |
| HF-4      | 1                     | 3,500                             | 3,750                             | 395                                   | 625                                   | 3                        | 6.5      |



General Notes

| No. | Revision/Issue | Date |
|-----|----------------|------|
|     |                |      |

Firm Name and Address

**SUNROCK**  
CAROLINA SUNROCK LLC

200 HORIZON DRIVE, SUITE 100  
RALEIGH, NC 27615

Project Name and Address

Prospect Hill Quarry  
& Distribution Center  
Site Entrance Pond  
&  
Creek Crossing  
Cross-Sections  
Drawn By: S Martino

Project

PLANT

Date

08-13-2019

Scale

As Shown

Sheet

7e