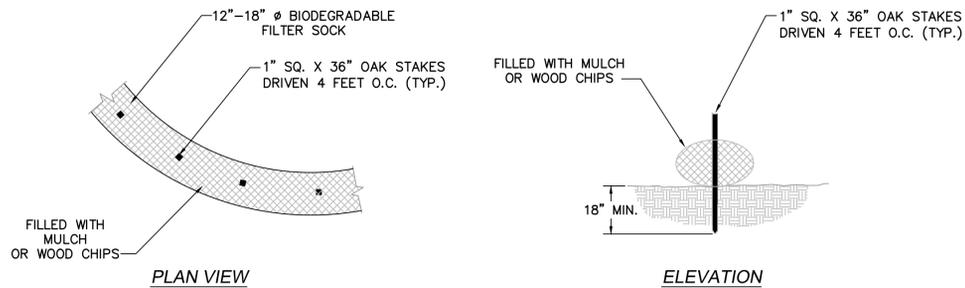


PROPOSED CAST-IN-PLACE HEAD & WING WALLS

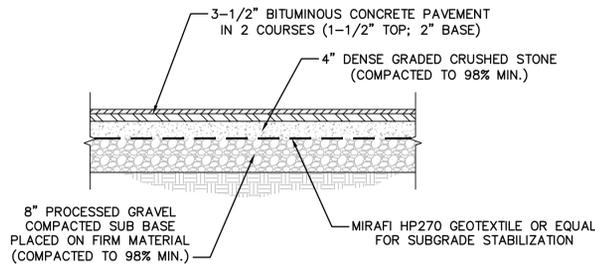


NOTES:

1. FILTER SOCK SHALL BE PLACED PRIOR TO START OF WORK.
2. OAK STAKES SHALL BE DRIVEN AT LEAST 18" MIN. INTO NATIVE SOIL.
3. FILTER SOCK AND DEPOSITED SEDIMENT SHALL BE REMOVED IN ACCORDANCE WITH CONSERVATION AGENT INSTRUCTION.

FILTER SOCK DETAIL

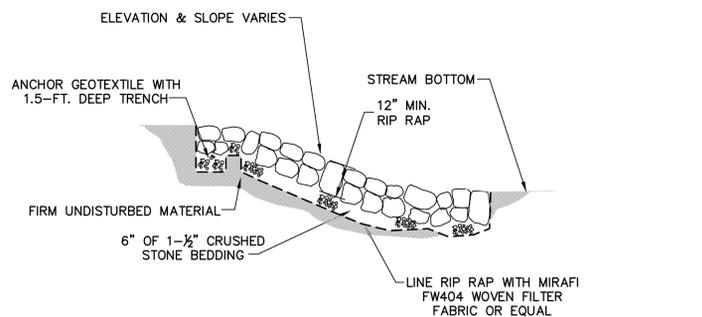
NOT TO SCALE



NOTE: REFER TO PROPOSED CONDITIONS FOR ROADWAY AND SHOULDER GRADING.

TYPICAL PAVEMENT SECTION

NOT TO SCALE

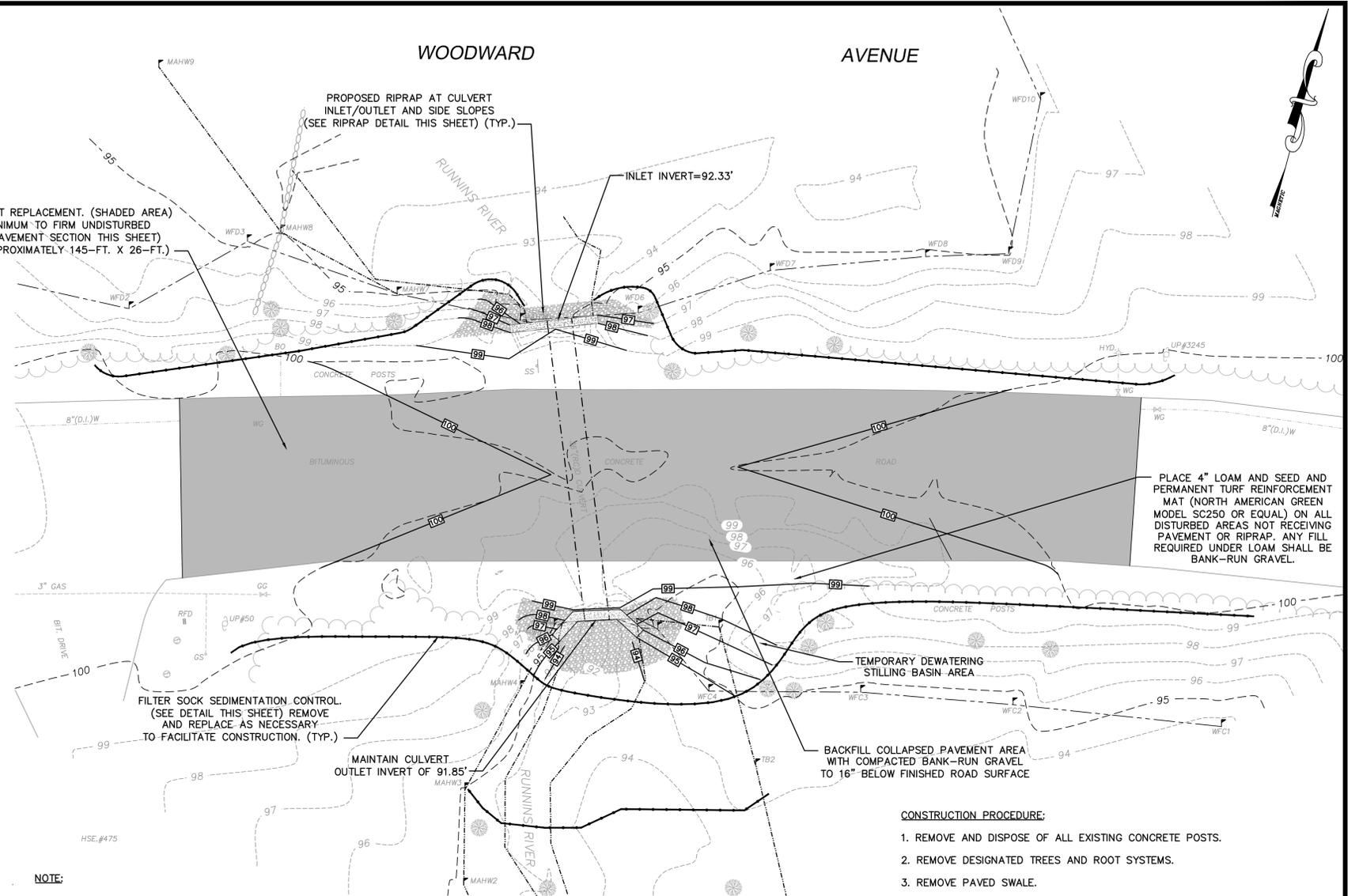


NOTE: RIPRAP SHALL CONFORM TO MASS DOT STANDARD SPECIFICATION M2.02.3.

RIPRAP DETAIL

NOT TO SCALE

LIMITS OF PAVEMENT REPLACEMENT. (SHADED AREA) REMOVE 16" MINIMUM TO FIRM UNDISTURBED MATERIAL (SEE PAVEMENT SECTION THIS SHEET) (SHADED AREA APPROXIMATELY 145'-FT. X 26'-FT.)



PROPOSED CONDITIONS

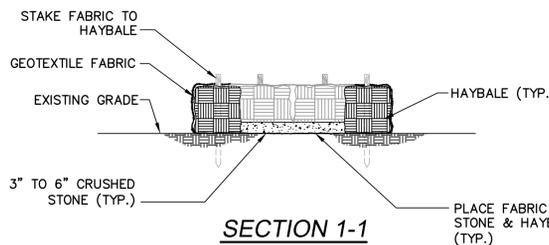
SCALE: 1" = 10'-0"

NOTE:

1. WHEN EXCAVATING FOR THE HEAD & WING WALL, THE CONTRACTOR SHALL DEWATER THE WORK AREA AS NECESSARY IN ACCORDANCE WITH THE DETAIL ON THIS SHEET.
2. ELEVATIONS ARE BASED ON AN ARBITRARY DATUM. ENGINEER WILL PROVIDE BENCHMARK INFORMATION AT START OF CONSTRUCTION.

CONSTRUCTION PROCEDURE:

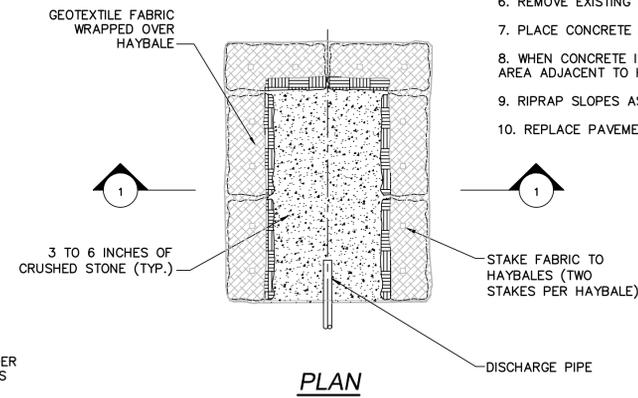
1. REMOVE AND DISPOSE OF ALL EXISTING CONCRETE POSTS.
2. REMOVE DESIGNATED TREES AND ROOT SYSTEMS.
3. REMOVE PAVED SWALE.
4. NO MATERIAL SHALL BE REMOVED FROM THE STREAM UNTIL THE CONSERVATION AGENT OR CONSERVATION COMMISSION MEMBER IS PRESENT. REMOVE WASHED OUT STONE AND ROADWAY MATERIAL FROM DOWNSTREAM STREAM BED TO ELIMINATE IMPOUNDMENT OF WATER. CONSERVATION AGENT WILL INSTRUCT CONTRACTOR ON LOCATION AND AMOUNT OF MATERIAL TO REMOVE.
5. SLIP LINE CULVERT ON THE DOWNSTREAM END WITH A PIPE PAST WORK AREA TO MAINTAIN NORMAL STREAM FLOW WHILE WORK IS IN PROGRESS. UTILIZE SANDBAGS AS NEEDED. NO WORK SHALL BE DONE IN FLOWING WATER.
6. REMOVE EXISTING DOWNSTREAM HEADWALL.
7. PLACE CONCRETE HEAD AND WING WALL STRUCTURE.
8. WHEN CONCRETE IS ADEQUATELY SET, BACKFILL COLLAPSED AREAS AND AREA ADJACENT TO HEADWALL AS INDICATED.
9. RIPRAP SLOPES AS INDICATED.
10. REPLACE PAVEMENT.



SECTION 1-1

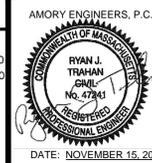
DE-WATERING / STILLING BASIN

NOT TO SCALE



PLAN

REVISIONS		
NO.	ITEM	DATE
1.	ISSUED FOR PERMITTING	11/22/10
2.	CONSERVATION COMMISSION COMMENTS	12/23/10
3.	ISSUED FOR BIDDING	1/21/11



AMORY ENGINEERS, P.C.
DUXBURY, MASSACHUSETTS

DRAWN BY: AJR/RJT	FILE NAME: AS SHOWN	SCALE: AS SHOWN
DESIGNED BY: RJT	JOB NO.: 3455	DWG. NO.: 1583
CHECKED BY: DAJ	DATE: 11/15/10	CONTRACT: #DPW 11-5

DEPARTMENT OF PUBLIC WORKS
SEEKONK, MASSACHUSETTS

HEADWALL REPAIR AND APPURTENANT WORK
WOODWARD AVENUE
PROPOSED PLAN, SECTION AND DETAILS

CIVIL
SHEET
6 OF 6