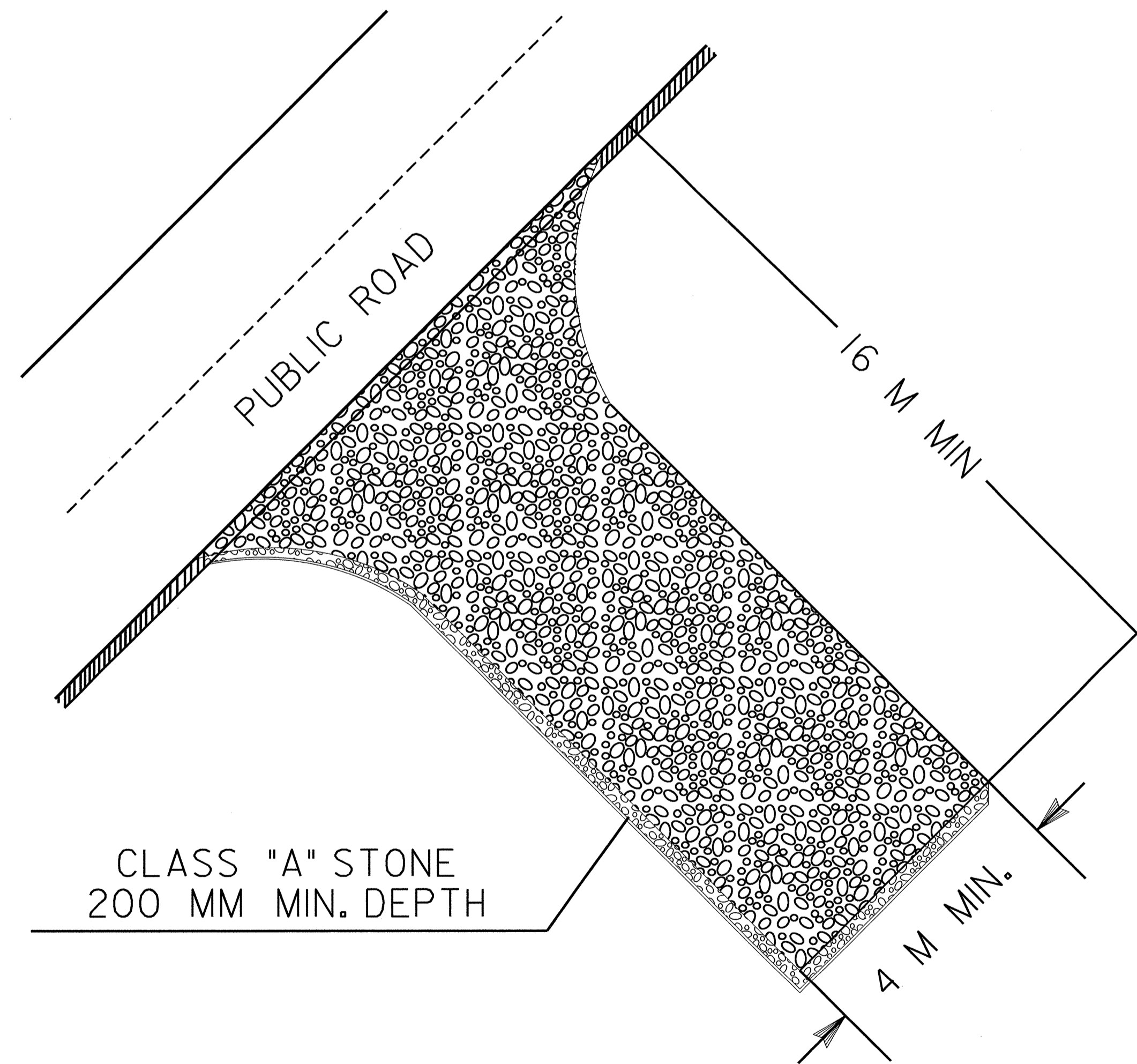






PROJECT REFERENCE NO.	SHEET NO.
R-2533CC	EC-2
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

## TEMPORARY GRAVEL CONSTRUCTION ENTRANCE



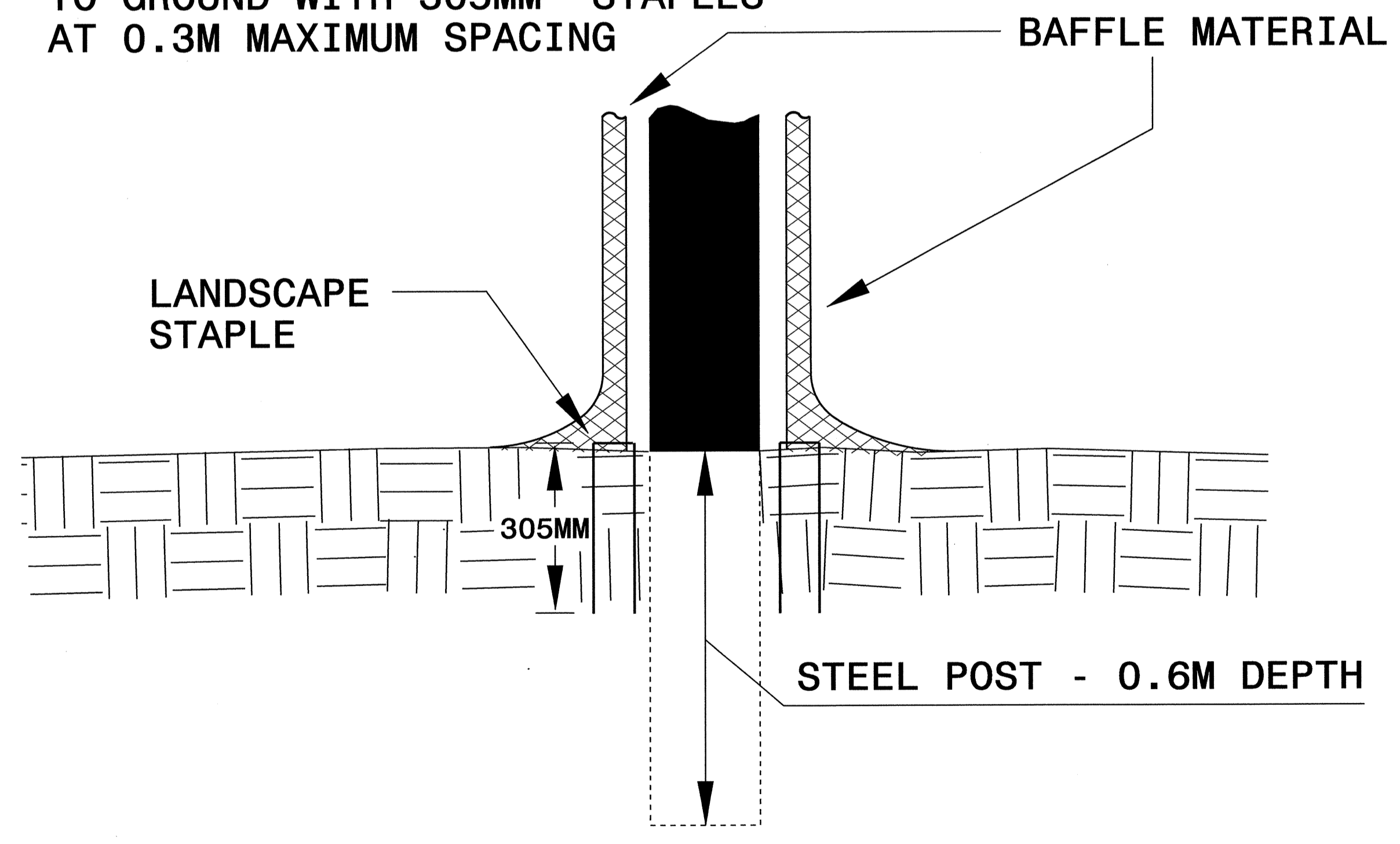
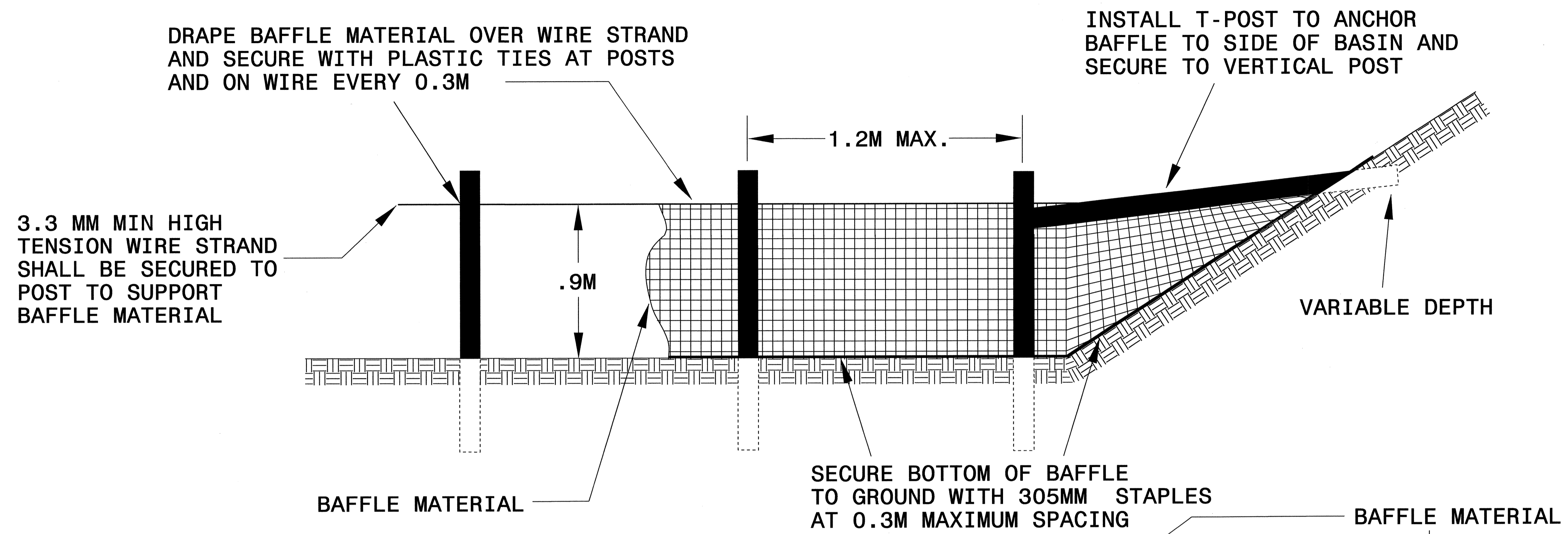
### NOTES:

1. TURNING RADIUS SUFFICIENT TO ACCOMODATE LARGE TRUCKS SHALL BE PROVIDED.
2. ENTRANCE(S) SHOULD BE LOCATED TO PROVIDE FOR UTILIZATION BY ALL CONSTRUCTION VEHICLES.
3. MUST BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING OR DIRECT FLOW OF MUD ONTO STREETS. PERIODIC TOPDRESSING WITH STONE WILL BE NECESSARY.
4. ANY MATERIAL TRACKED ONTO THE ROADWAY MUST BE CLEANED UP IMMEDIATELY.
5. GRAVEL CONSTRUCTION ENTRANCE SHALL BE LOCATED AT ALL POINTS OF INGRESS AND EGRESS UNTIL SITE IS STABILIZED. FREQUENT CHECKS OF THE DEVICE AND TIMELY MAINTENANCE MUST BE PROVIDED.
6. NUMBER AND LOCATION OF CONSTRUCTION ENTRANCES TO BE DETERMINED BY THE ENGINEER

NOTE: FILTER FABRIC TO BE PLACED BENEATH STONE

PROJECT REFERENCE NO. R-2533CC		SHEET NO. EC-2A	
R/W SHEET NO.			
ROADWAY DESIGN ENGINEER		HYDRAULICS ENGINEER	

# COIR FIBER BAFFLE DETAIL



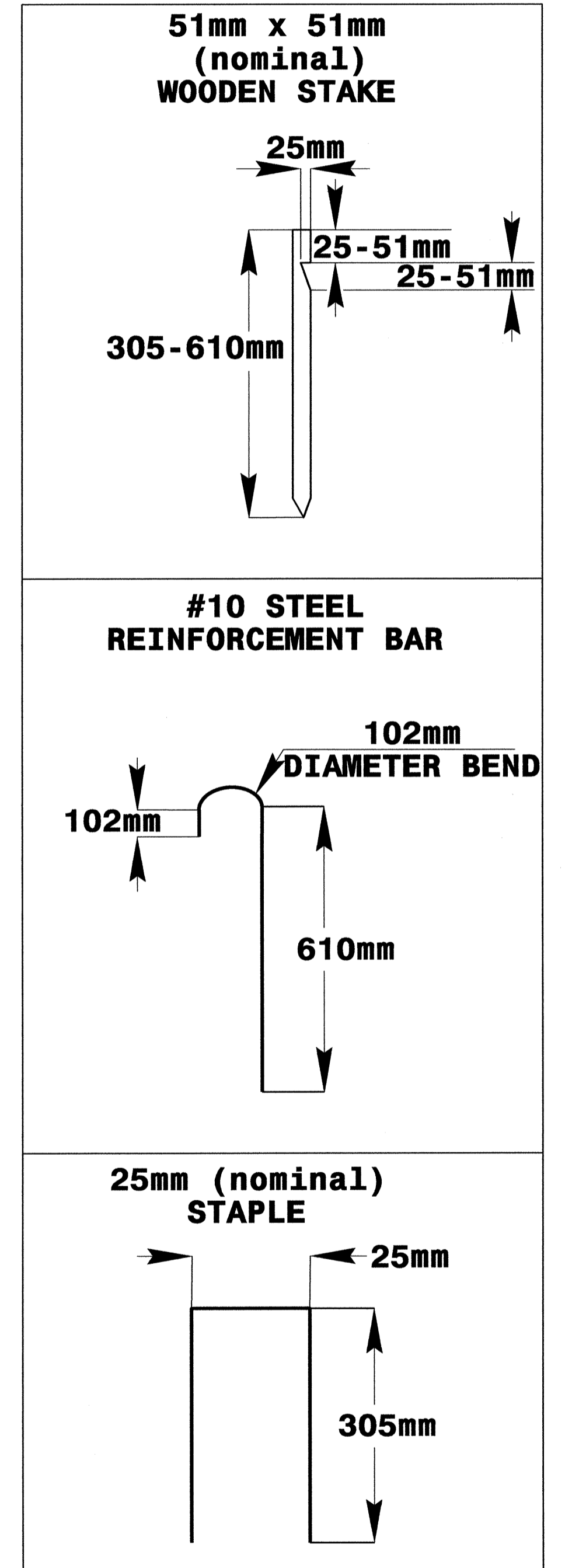
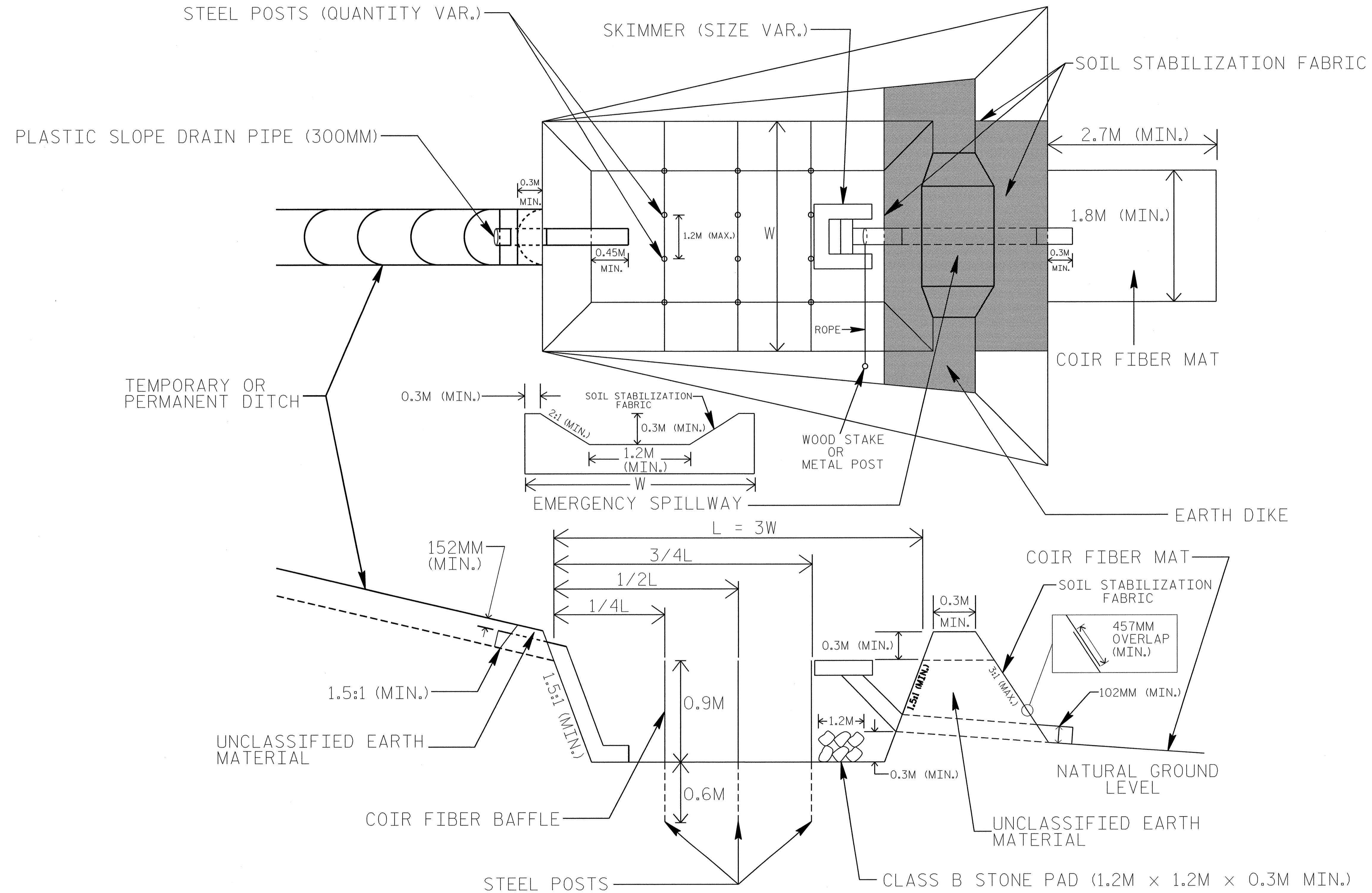
1. INSTALL THREE (3) COIR FIBER BAFFLES IN SILT BASINS AND SEDIMENT DAMS AT DRAINAGE OUTLETS WITH A SPACING OF  $\frac{1}{4}$  THE BASIN LENGTH.
2. TWO (2) COIR FIBER BAFFLES CAN BE INSTALLED IN SILT BASINS AND DAMS LESS THAN 6 M IN LENGTH WITH A SPACING OF  $\frac{1}{3}$  THE BASIN LENGTH.
3. TOP HEIGHT OF COIR FIBER BAFFLES SHALL NOT BE BELOW BASE OF EMERGENCY SPILLWAY ELEVATION.

BAFFLE MATERIAL SHALL BE SECURED TO THE BOTTOM AND SIDES OF BASIN USING 305MM LANDSCAPE STAPLES

# SKIMMER BASIN WITH BAFFLES DETAIL



PROJECT REFERENCE NO. R-2533CC	SHEET NO. EC-2B
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER



## COIR FIBER MAT ANCHOR OPTIONS

### NOTES

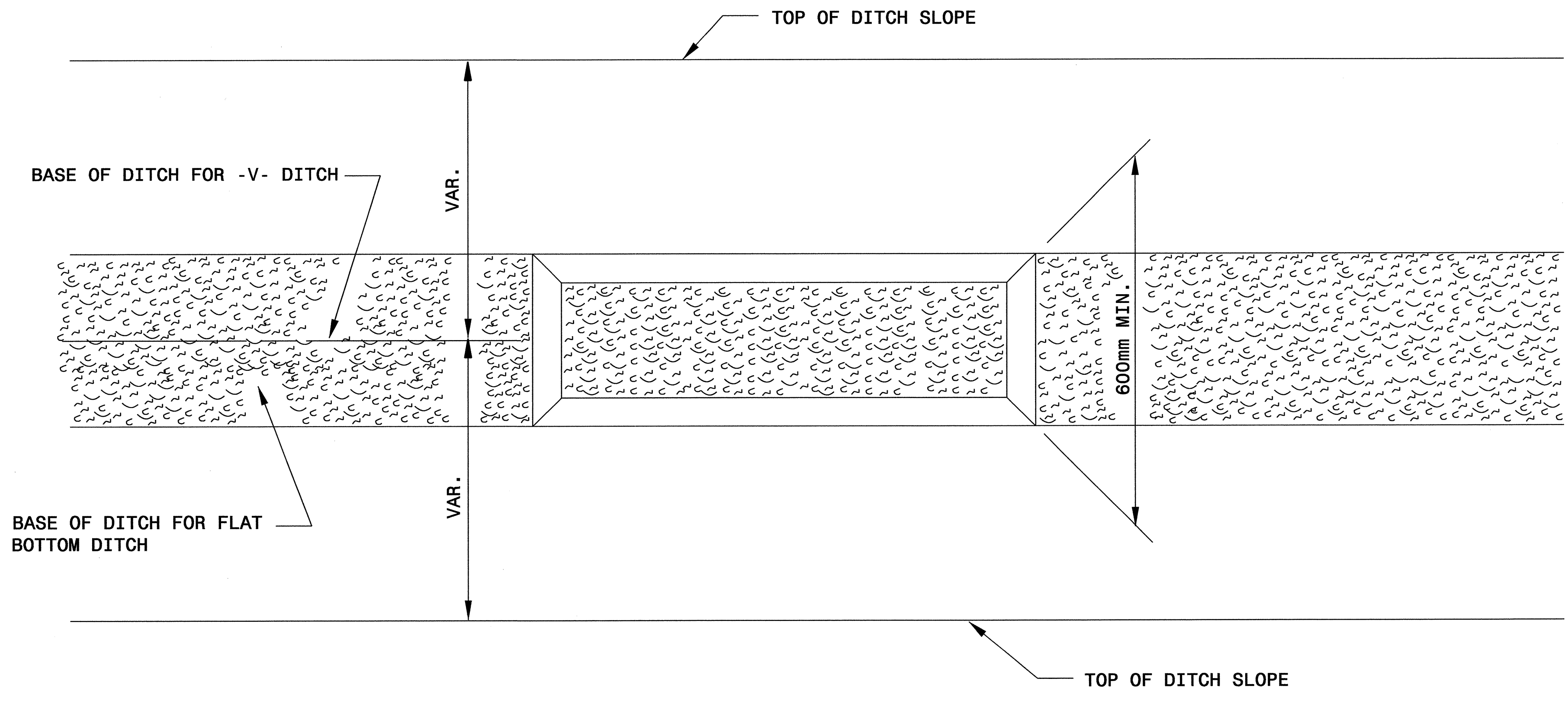
1. SEED AND PLACE MATTING FOR EROSION CONTROL ON INTERIOR AND EXTERIOR SIDESLOPES.
2. LIMIT EARTH DIKE HEIGHT TO 1.5M.
3. FOR BASIN DEPTH OF 1M, MINIMUM BASIN WIDTH SHALL BE 3M.
4. DETERMINE EMERGENCY SPILLWAY LENGTH (M) USING  $Q/0.074$ , WHERE Q IS FLOW RATE (CMS) INTO BASIN.
5. PLASTIC SLOPE DRAIN PIPE AT INLET OF BASIN MAY BE REPLACED BY FILTER FABRIC AS DIRECTED.
6. SOIL STABILIZATION FABRIC FOR EMERGENCY SPILLWAY SHALL BE ONE CONTINUOUS PIECE OF MATERIAL OR OVERLAPPED 457MM AS SHOWN.

NOT TO SCALE

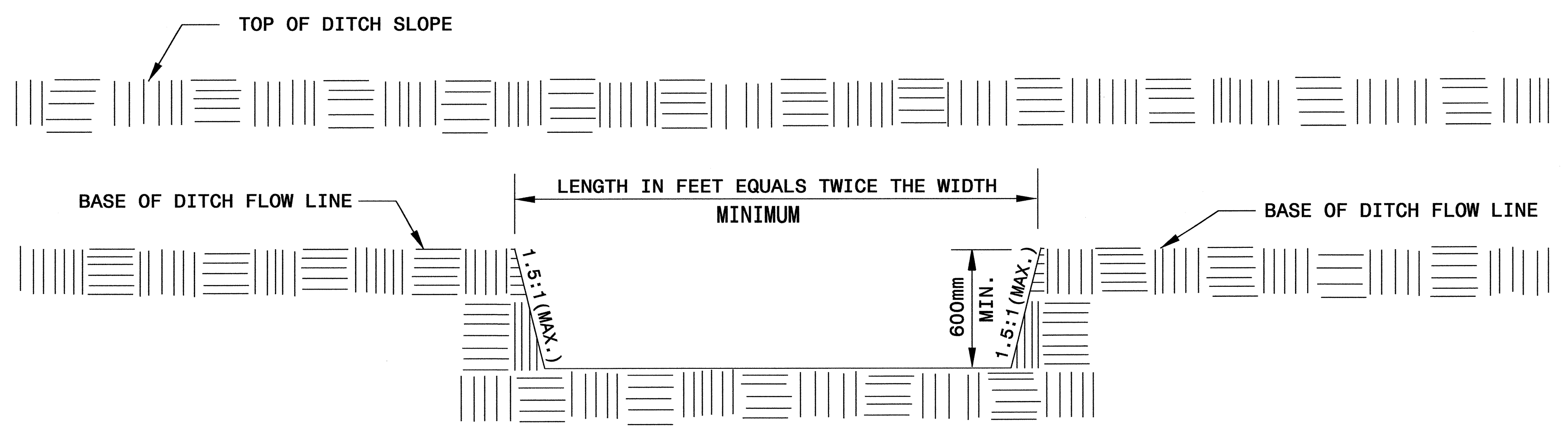


PROJECT REFERENCE NO. R-25330C	SHEET NO. EC-2C
R / W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

# SILT BASIN 'B' DETAIL



PLAN

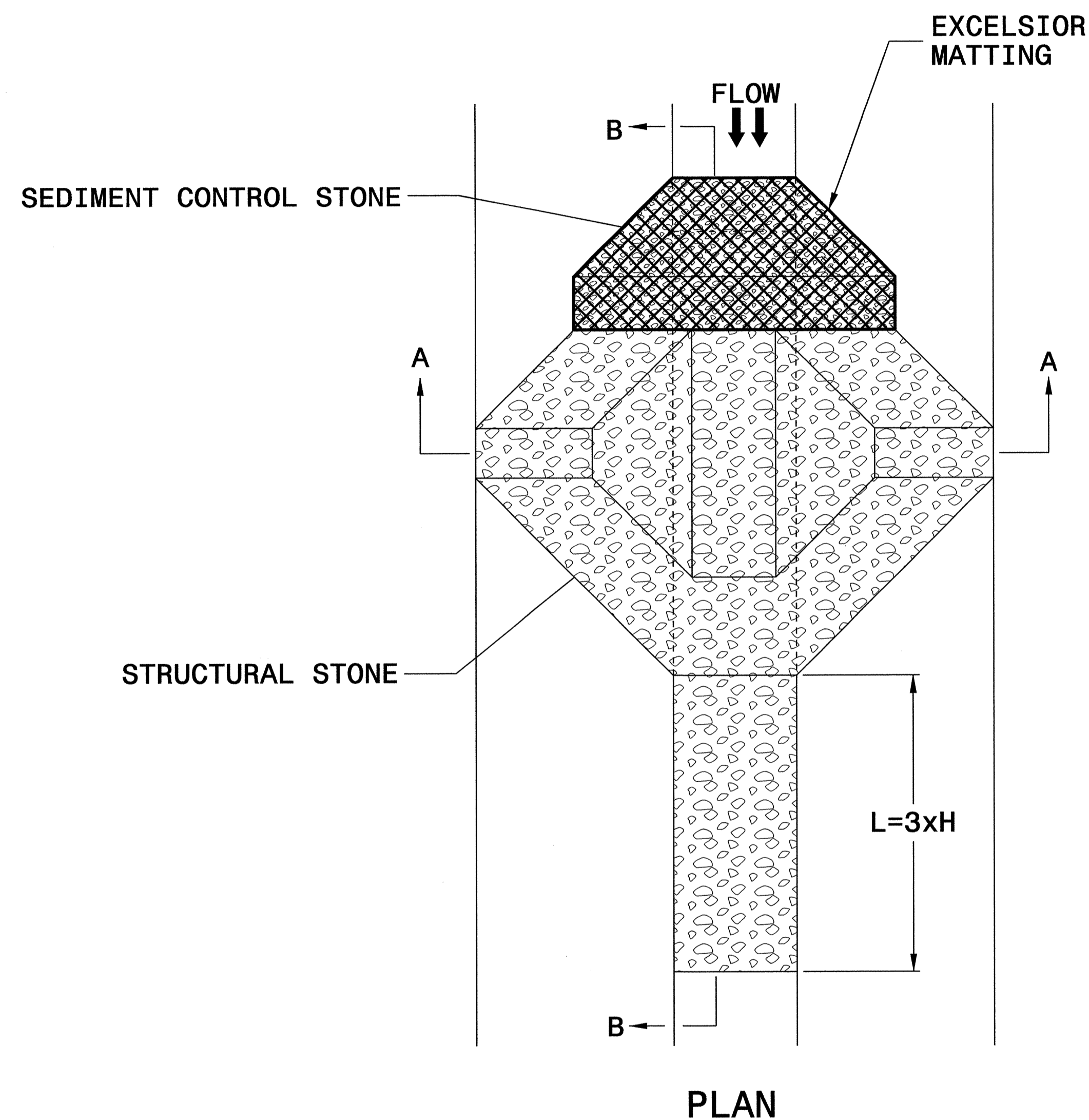


ELEVATION



PROJECT REFERENCE NO. R-2533CC	SHEET NO. EC-2D
R / W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

# TEMPORARY ROCK SILT CHECK TYPE 'A' WITH EXCELSIOR MATTING AND POLYACRYLAMIDE (PAM)

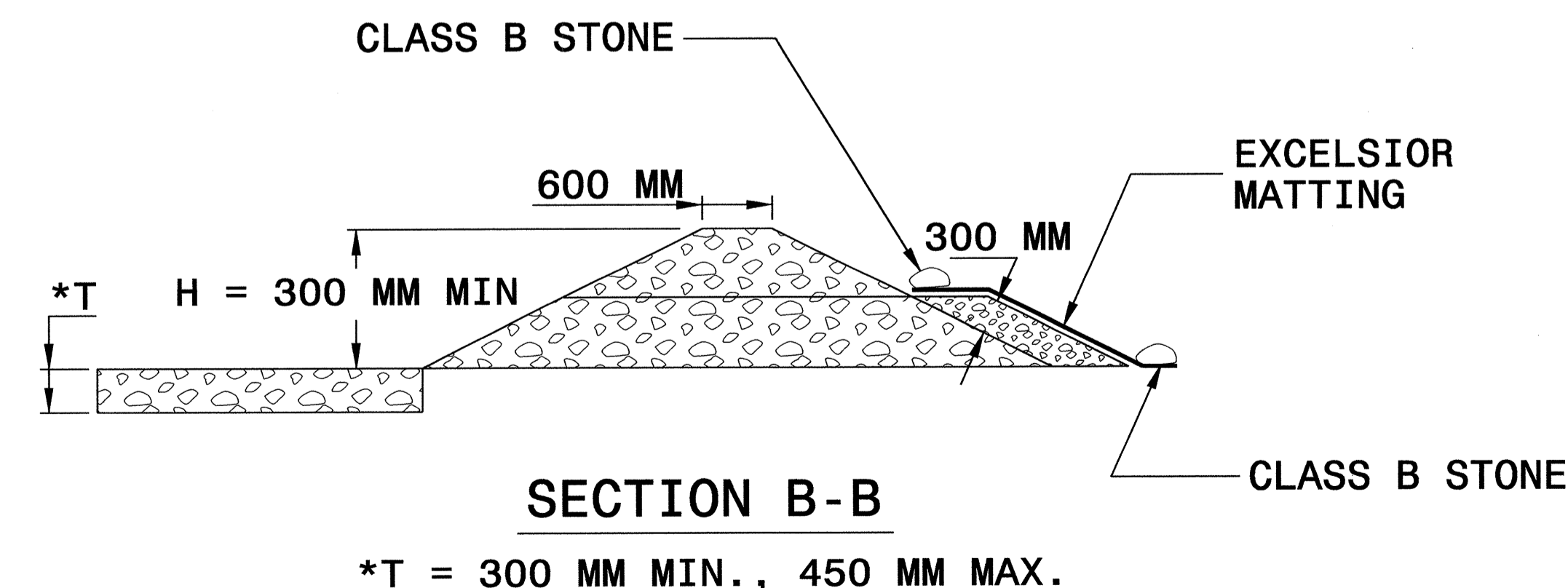
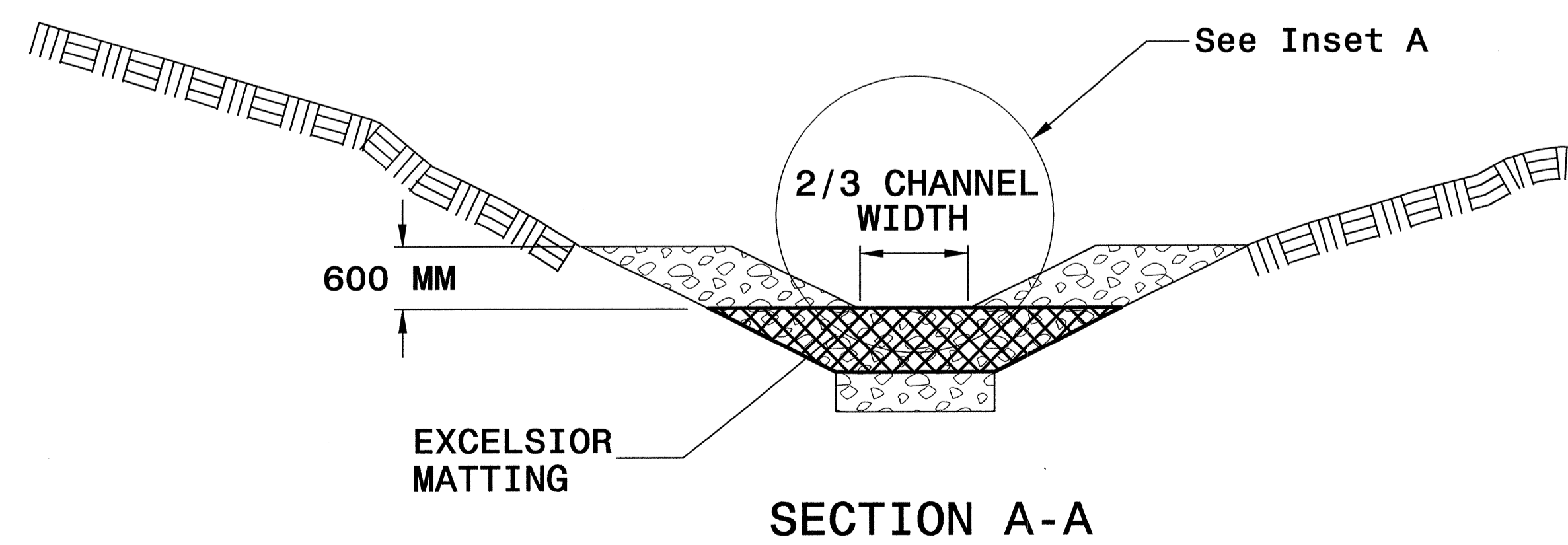
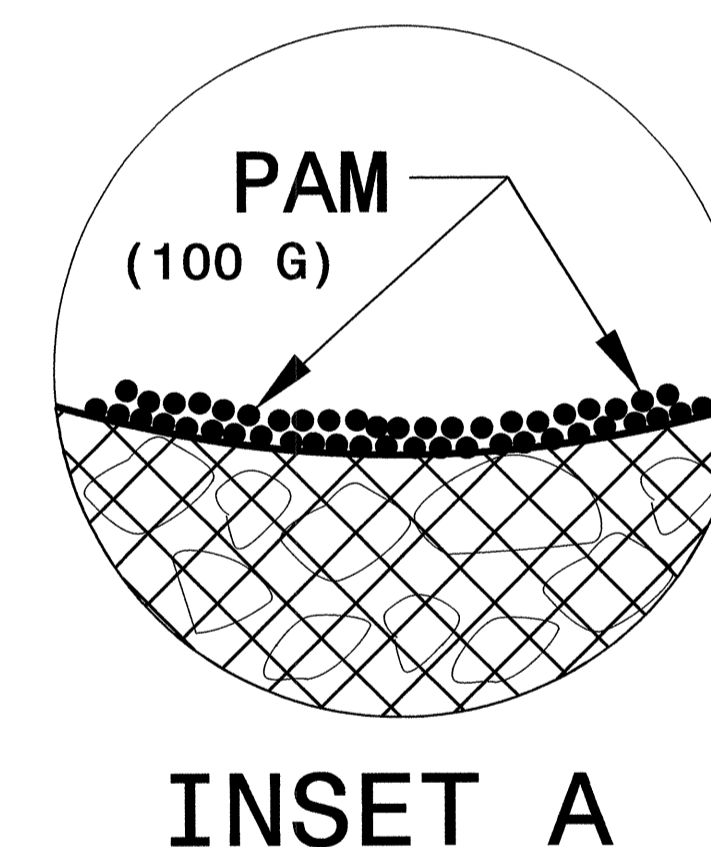


## NOTES

USE EXCELSIOR FOR MATTING MATERIAL AND ANCHOR MATTING SECTION AT TOP AND BOTTOM WITH CLASS B STONE.

PRIOR TO POLYACRYLAMIDE (PAM) APPLICATION, OBTAIN A SOIL SAMPLE FROM PROJECT LOCATION, AND FROM OFFSITE MATERIAL, AND ANALYZE FOR APPROPRIATE PAM FLOCCULANT TO BE APPLIED TO EACH ROCK SILT CHECK.

INITIALLY APPLY 100 GRAMS OF POLYACRYLAMIDE (PAM) TO TOP OF MATTING SECTION AND AFTER EVERY RAINFALL EVENT THAT EQUALS OR EXCEEDS 12 MM.

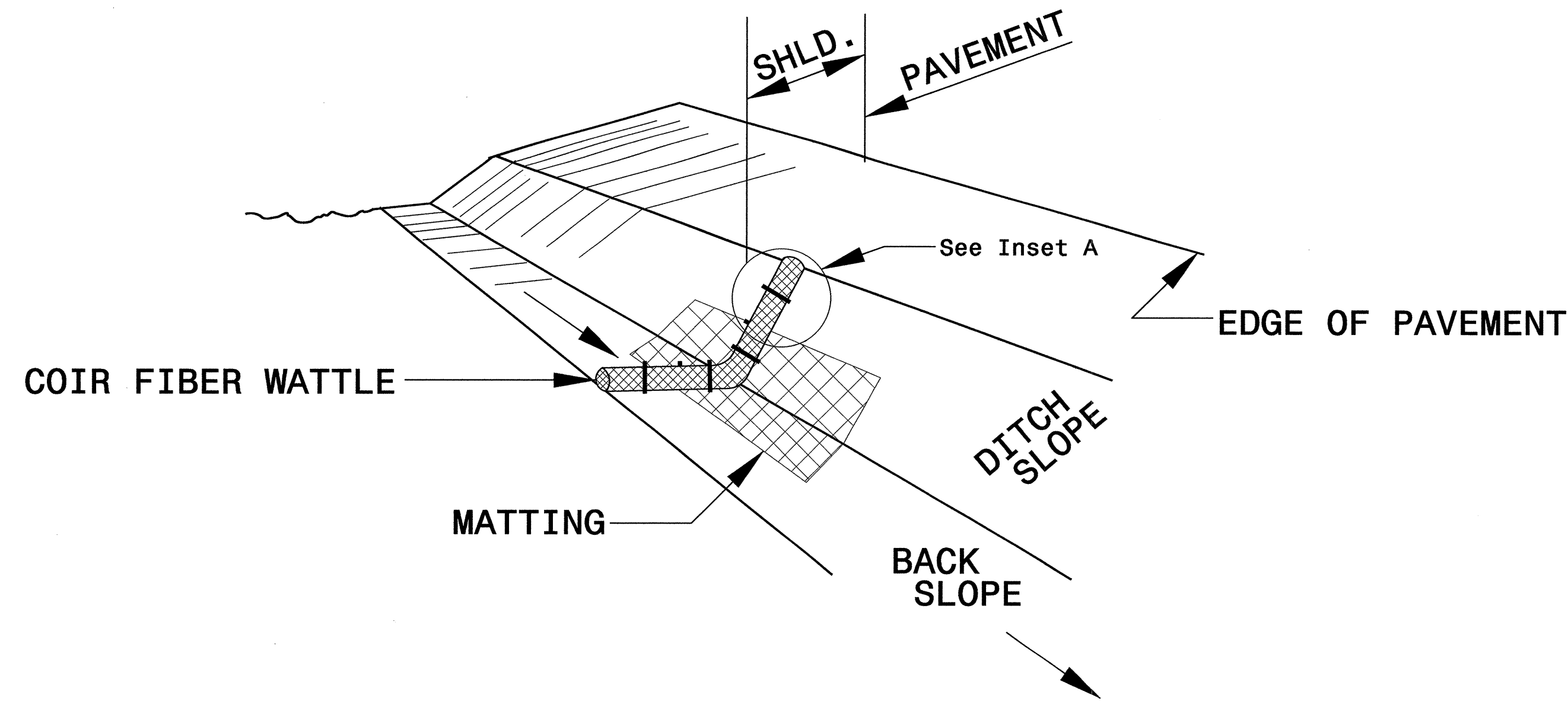


NOT TO SCALE

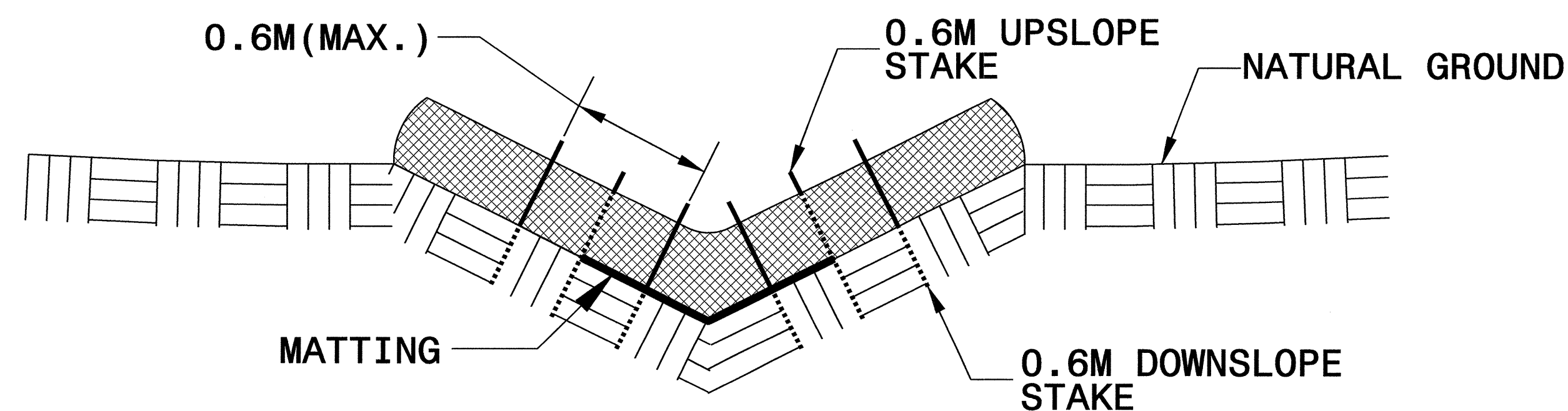
# COIR FIBER WATTLE WITH POLYACRYLAMIDE (PAM) DETAIL



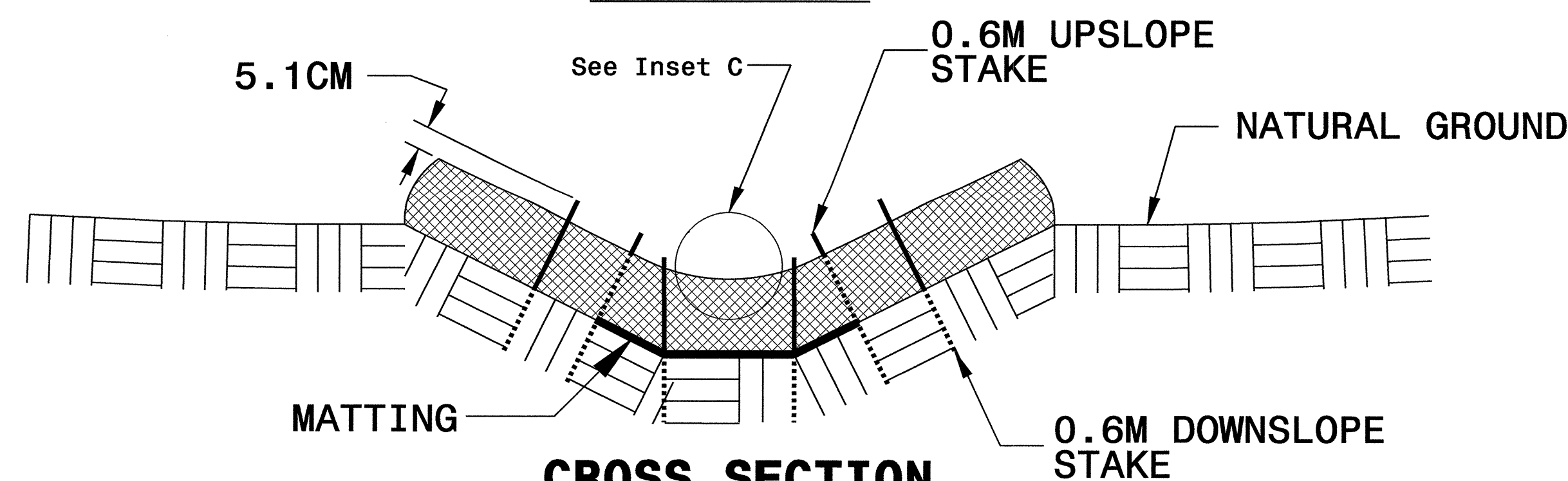
PROJECT REFERENCE NO. R-2533CC	SHEET NO. EC-2E
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER



**ISOMETRIC VIEW**



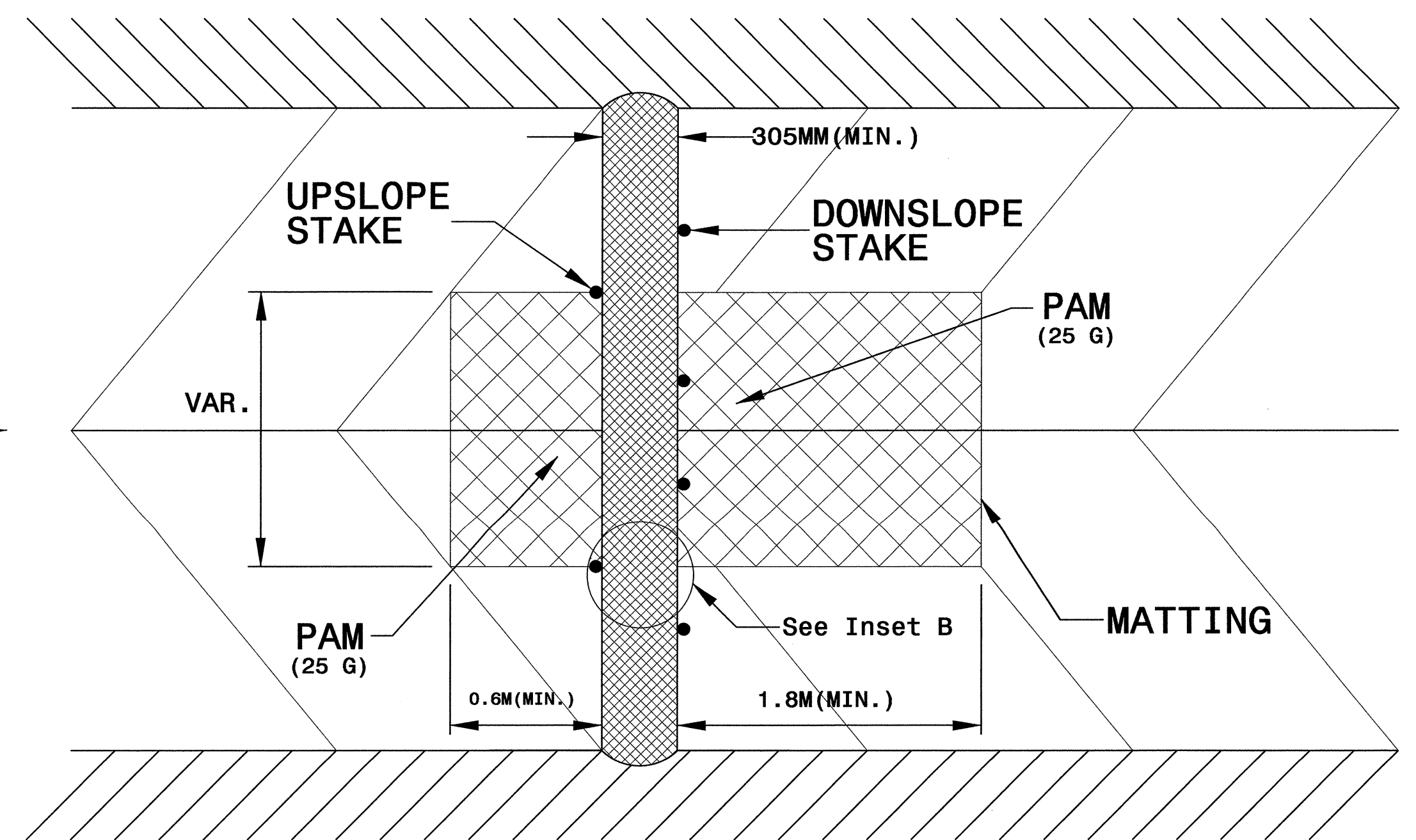
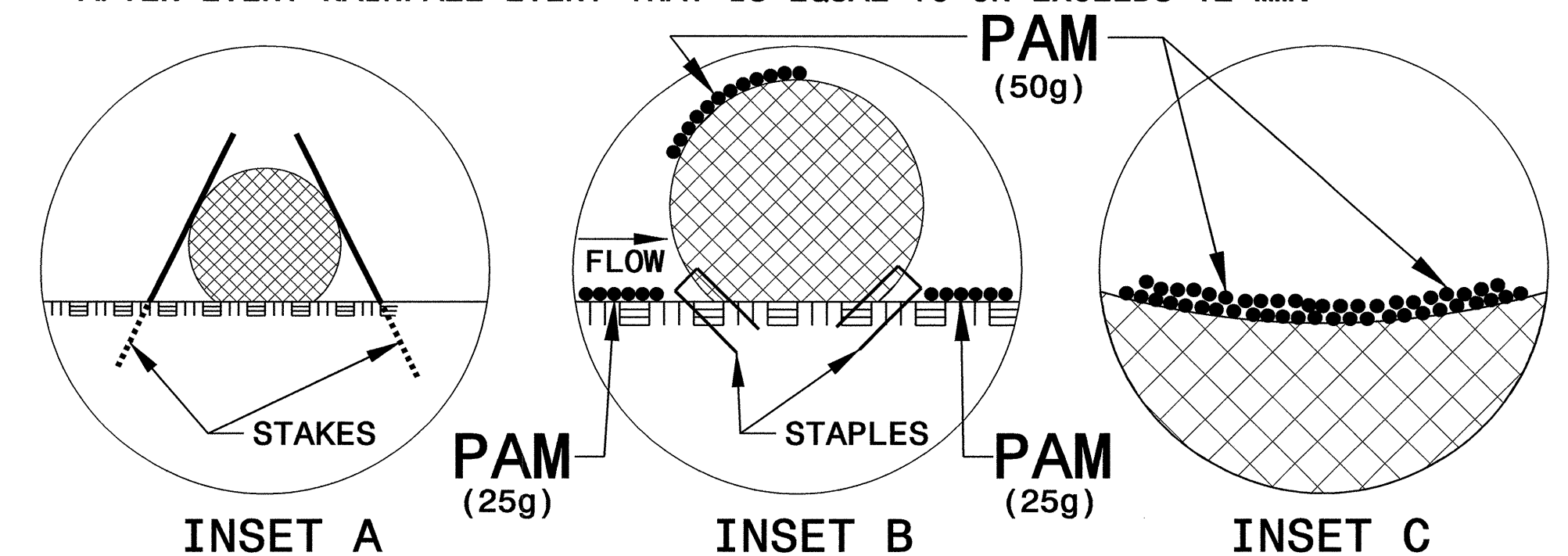
**CROSS SECTION VEE DITCH**



**CROSS SECTION TRAPEZOIDAL DITCH**

**NOTES:**

- USE MINIMUM 305 MM DIAMETER COIR FIBER (COCONUT FIBER) WATTLE.
- USE 0.6 M WOODEN STAKES WITH A 5.1 CM BY 5.1 CM NOMINAL CROSS SECTION.
- ONLY INSTALL WATTLE(S) TO A HEIGHT IN DITCH SO FLOW WILL NOT WASH AROUND WATTLE AND SCOUR DITCH SLOPES AND AS DIRECTED.
- INSTALL A MINIMUM OF 2 UPSLOPE STAKES AND 4 DOWNSLOPE STAKES AT AN ANGLE TO WEDGE WATTLE TO BOTTOM OF DITCH.
- PROVIDE STAPLES MADE OF 3 MM DIAMETER STEEL WIRE FORMED INTO A U SHAPE NOT LESS THAN 305 MM IN LENGTH.
- INSTALL STAPLES APPROXIMATELY EVERY 0.3 LINEAR METER ON BOTH SIDES OF WATTLE AND AT EACH END TO SECURE IT TO THE SOIL.
- INSTALL MATTING IN ACCORDANCE WITH SECTION 1631 OF THE STANDARD SPECIFICATIONS.
- PRIOR TO POLYACRYLAMIDE (PAM) APPLICATION, OBTAIN A SOIL SAMPLE FROM PROJECT LOCATION, AND FROM OFFSITE MATERIAL, AND ANALYZE FOR APPROPRIATE PAM FLOCCULANT TO BE APPLIED TO EACH WATTLE.
- INITIALLY APPLY 50 GRAMS OF ANIONIC OR NEUTRALLY CHARGED PAM OVER WATTLE WHERE WATER WILL FLOW AND 25 GRAMS ON MATTING ON EACH SIDE OF WATTLE. REAPPLY PAM AFTER EVERY RAINFALL EVENT THAT IS EQUAL TO OR EXCEEDS 12 MM.

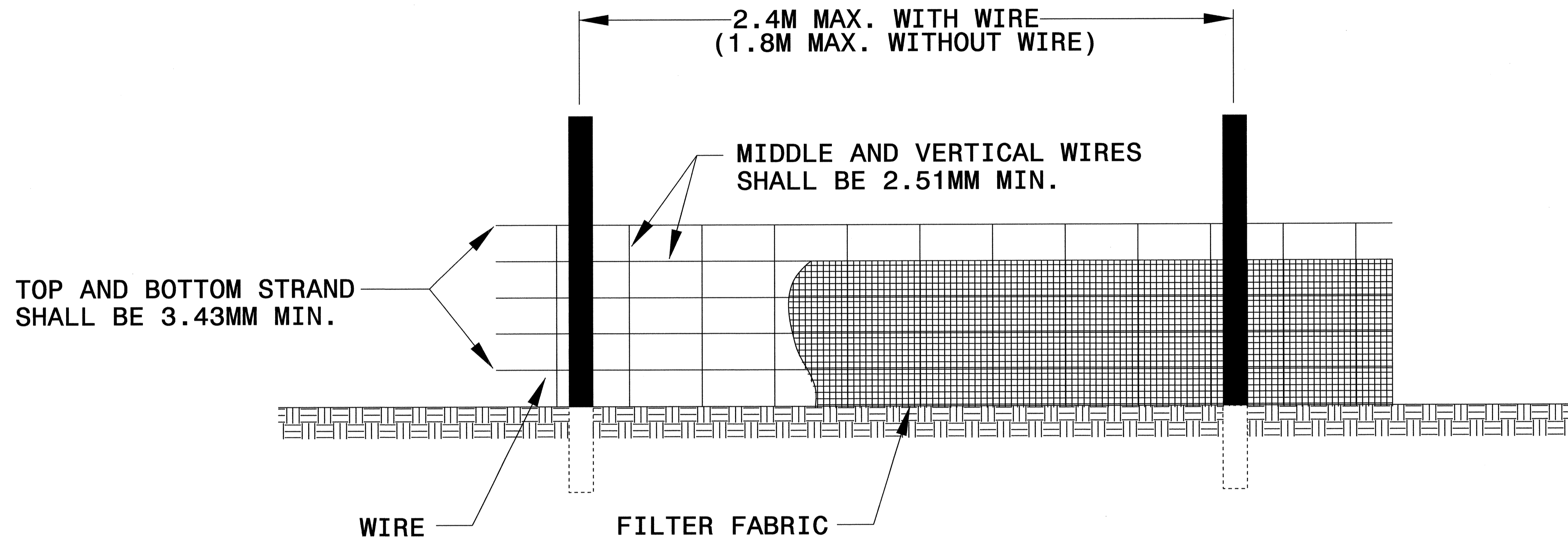


**TOP VIEW**



PROJECT REFERENCE NO. R-2533CC	SHEET NO. EC-2F
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

# TEMPORARY SILT FENCE DETAIL

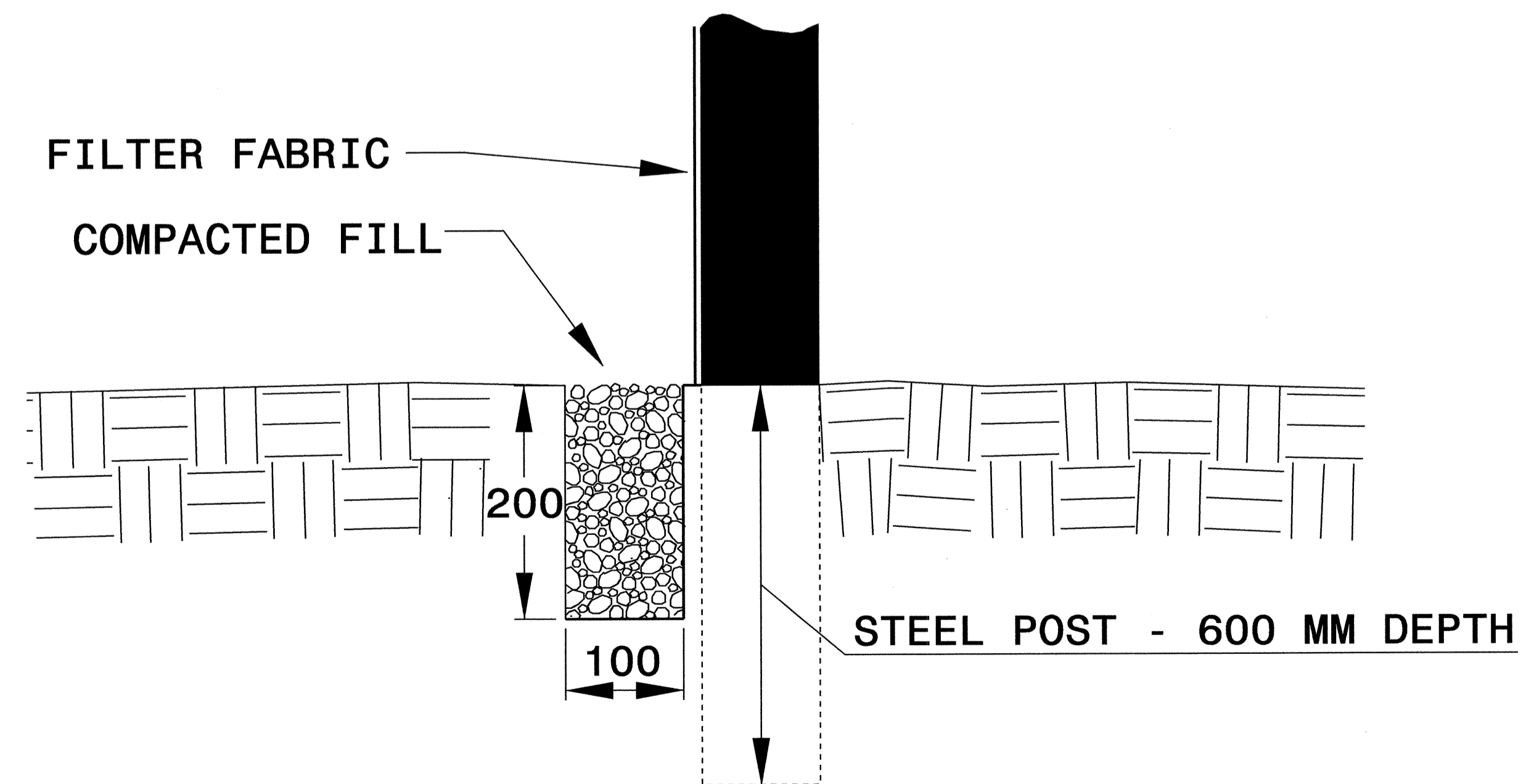


## NOTES

USE WIRE A MINIMUM OF 800MM IN WIDTH AND WITH A MINIMUM OF 6 LINE WIRES WITH 300MM STAY SPACING.

USE FILTER FABRIC A MINIMUM OF 900MM IN WIDTH AND FASTEN ADEQUATELY TO THE WIRE AS DIRECTED BY THE ENGINEER.

PROVIDE 1.5M STEEL POST OF THE SELF-FASTENER ANGLE STEEL TYPE. ANGLE STEEL TYPE.



EXTENSION OF FABRIC AND WIRE INTO TRENCH





PROJECT REFERENCE NO. R-2533CC	SHEET NO. EC-26
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

# SPECIAL SEDIMENT CONTROL FENCE DETAIL

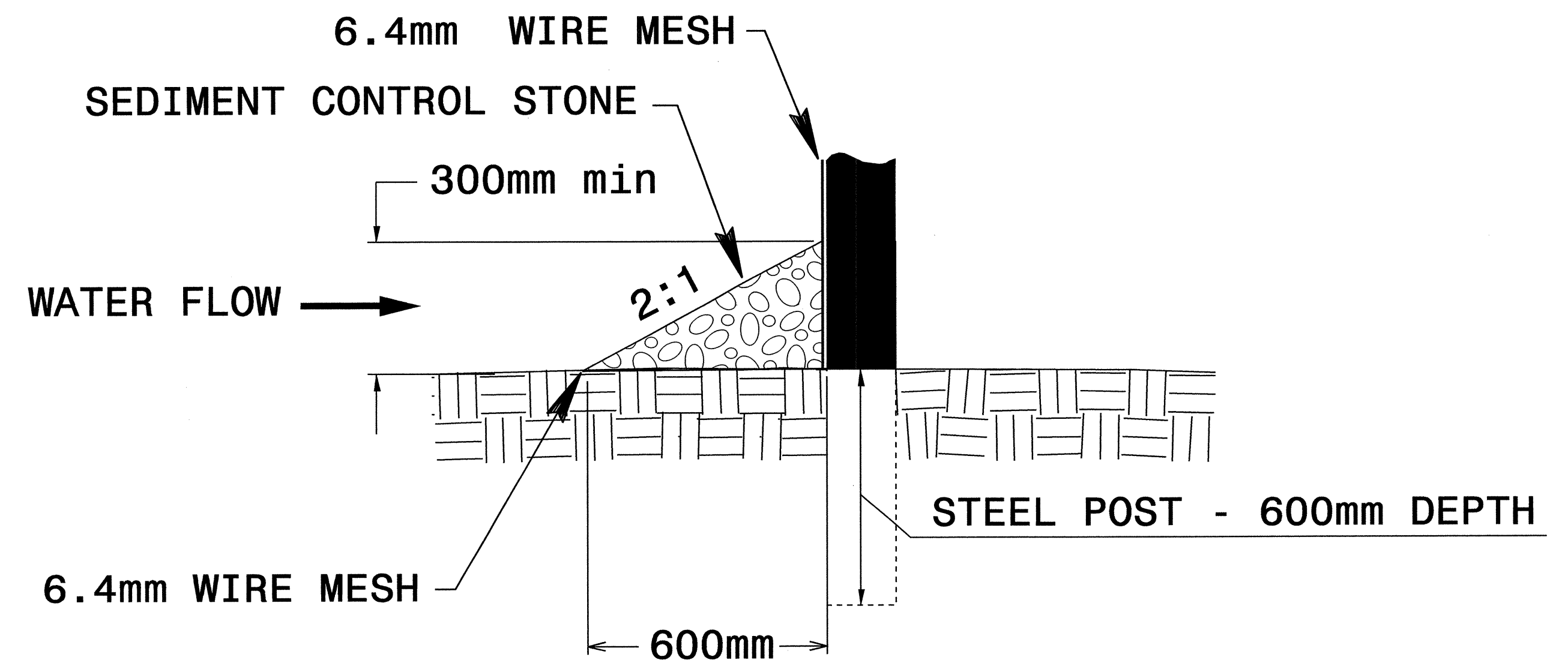
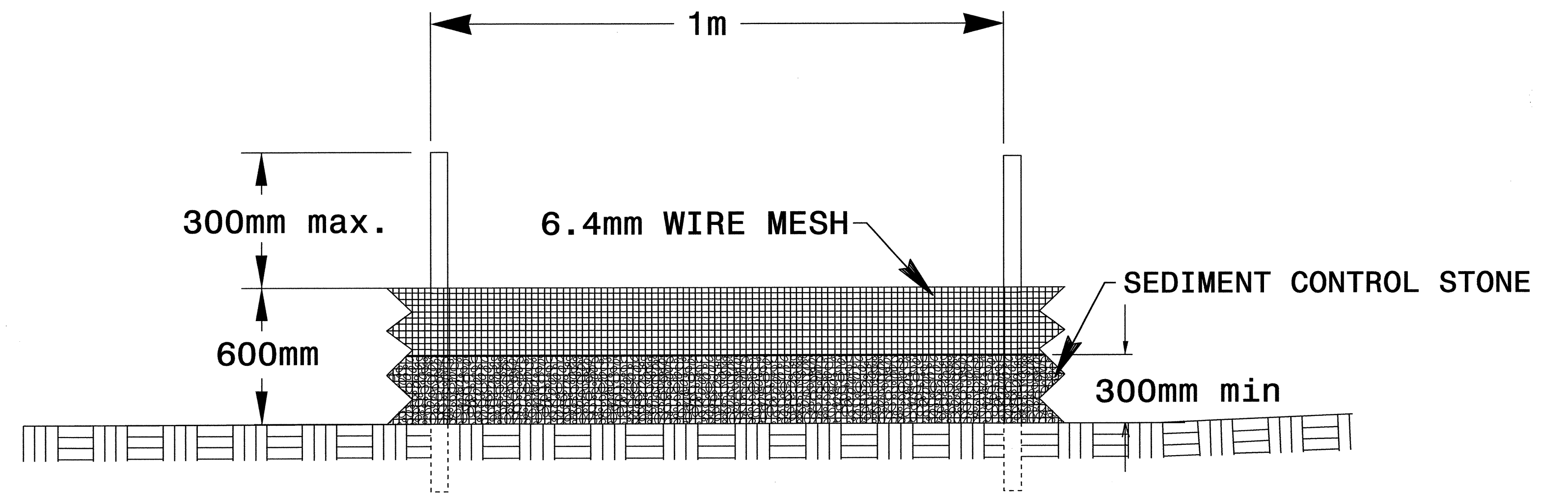
## GENERAL NOTES:

USE NO. 5 OR NO. 57 STONE FOR SEDIMENT CONTROL.

USE 0.65mm HARDWARE CLOTH WIRE MESH WITH 6.4 mm MESH OPENINGS.

INSTALL 1.5m SELF FASTENER ANGLE STEEL POST 600mm DEEP MINIMUM.

SPACE POST A MAXIMUM OF 1m.





PROJECT REFERENCE NO. R-2533CC	SHEET NO. EC-2H
R / W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

# STILLING BASIN

GENERAL NOTES:  
CONSTRUCT THE COIR FIBER BAFFLES WITH A MATERIAL THAT MEETS THE SPECIFICATIONS OF THE COIR FIBER MAT SPECIAL PROVISION PROVIDED IN THE CONTRACT.

PROVIDE 1.5M STEEL POSTS OF THE SELF-FASTENER ANGLE STEEL TYPE. INSTALL STEEL POSTS WITH NO MORE THAN 0.9M OF THE POST APPEARING ABOVE THE GROUND.

ATTACH THE COIR FIBER MAT TO THE STEEL POSTS WITH WIRE OR OTHER ACCEPTABLE MEANS AND STAPLED INTO THE BOTTOM AND SIDE SLOPES OF THE STILLING BASIN WITH 12" STAPLES.

INSTALL THE TOP OF THE COIR FIBER BAFFLE A MINIMUM OF 300MM LOWER THAN THE TOP OF THE STILLING BASIN BERMS.

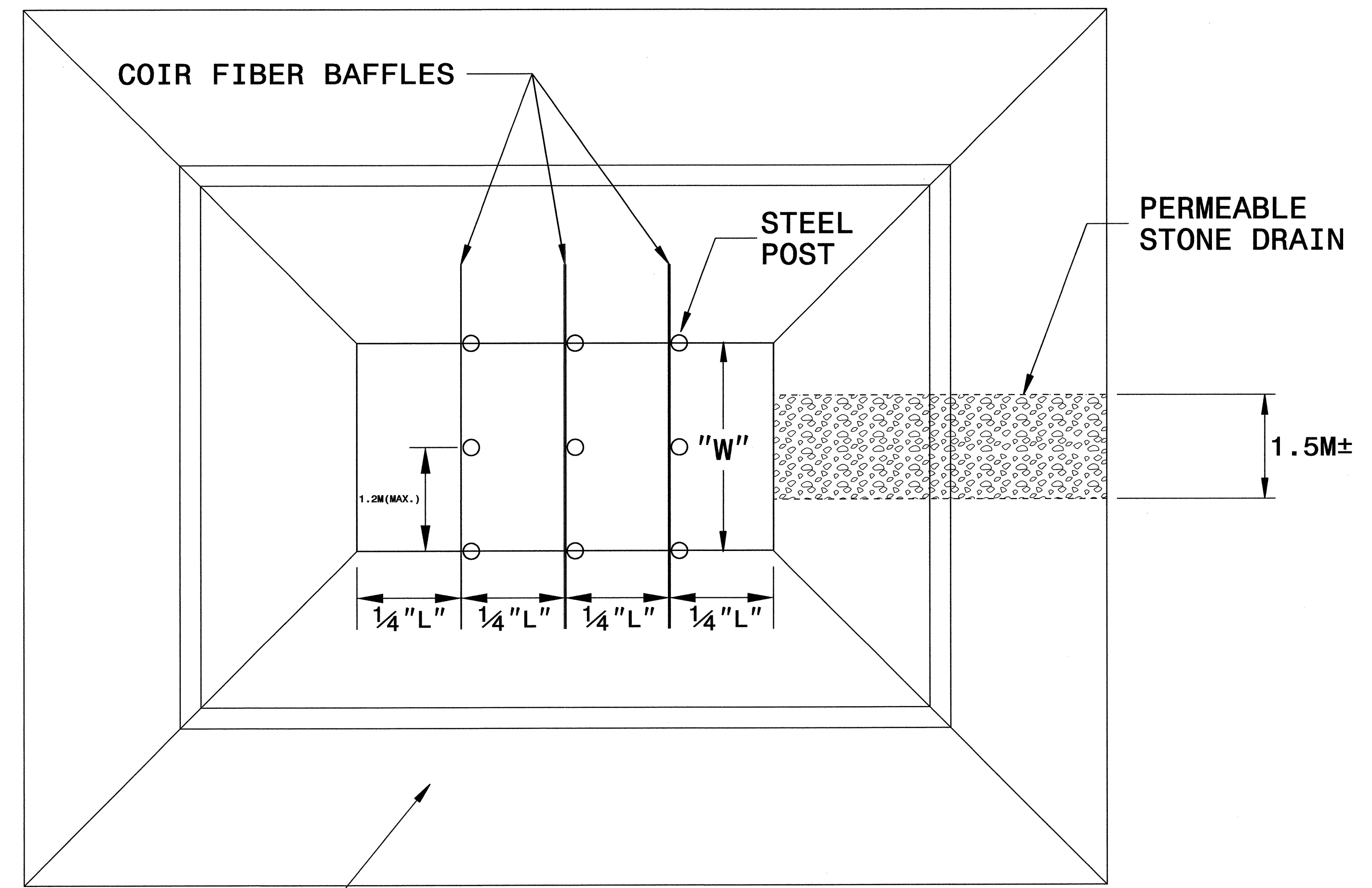
USE THE TYPICAL SECTION SHOWN FOR THE STILLING BASIN AS A GUIDE. THE BASIN MAY HAVE ANY TYPE CONFIGURATION AS LONG AS SUFFICIENT VOLUME IS PROVIDED AND PROVISIONS ARE MADE FOR A PERMEABLE STONE DRAIN.

DO NOT EXCEED 1.5M IN HEIGHT FOR THE EARTH DIKES REQUIRED FOR STILLING BASINS. ADDITIONAL DEPTHS MAY BE ATTAINED BY EXCAVATING BELOW THE NATURAL GROUND LEVEL.

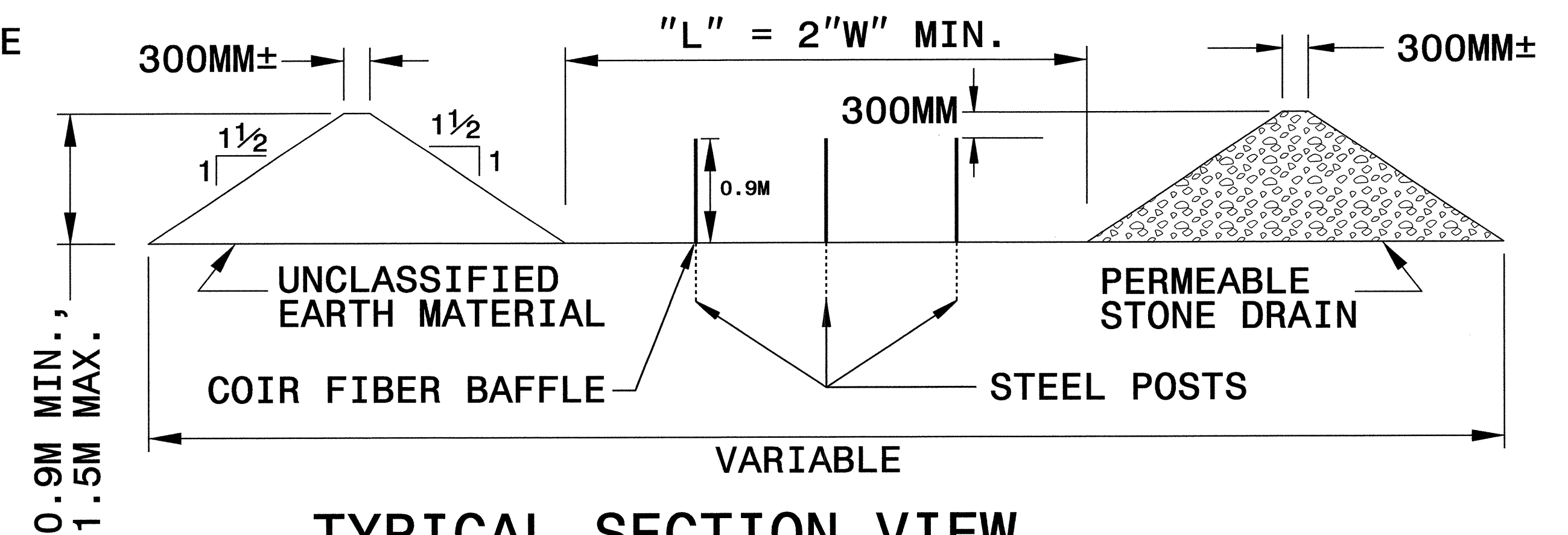
THE STILLING BASIN SIZE IS VARIABLE AND DEPENDENT ON SPECIFIC SITE REQUIREMENTS AS WELL AS PROPOSED CONSTRUCTION OPERATIONS.

SUBMIT THE SIZE, LOCATION AND PERMEABLE STONE DRAIN MATERIAL FOR APPROVAL PRIOR TO CONSTRUCTION.

PUMP THE EFFLUENT INTO THE STILLING BASIN TO A MAXIMUM DEPTH OF 0.9 METERS.



EARTH DIKE  
**PLAN**

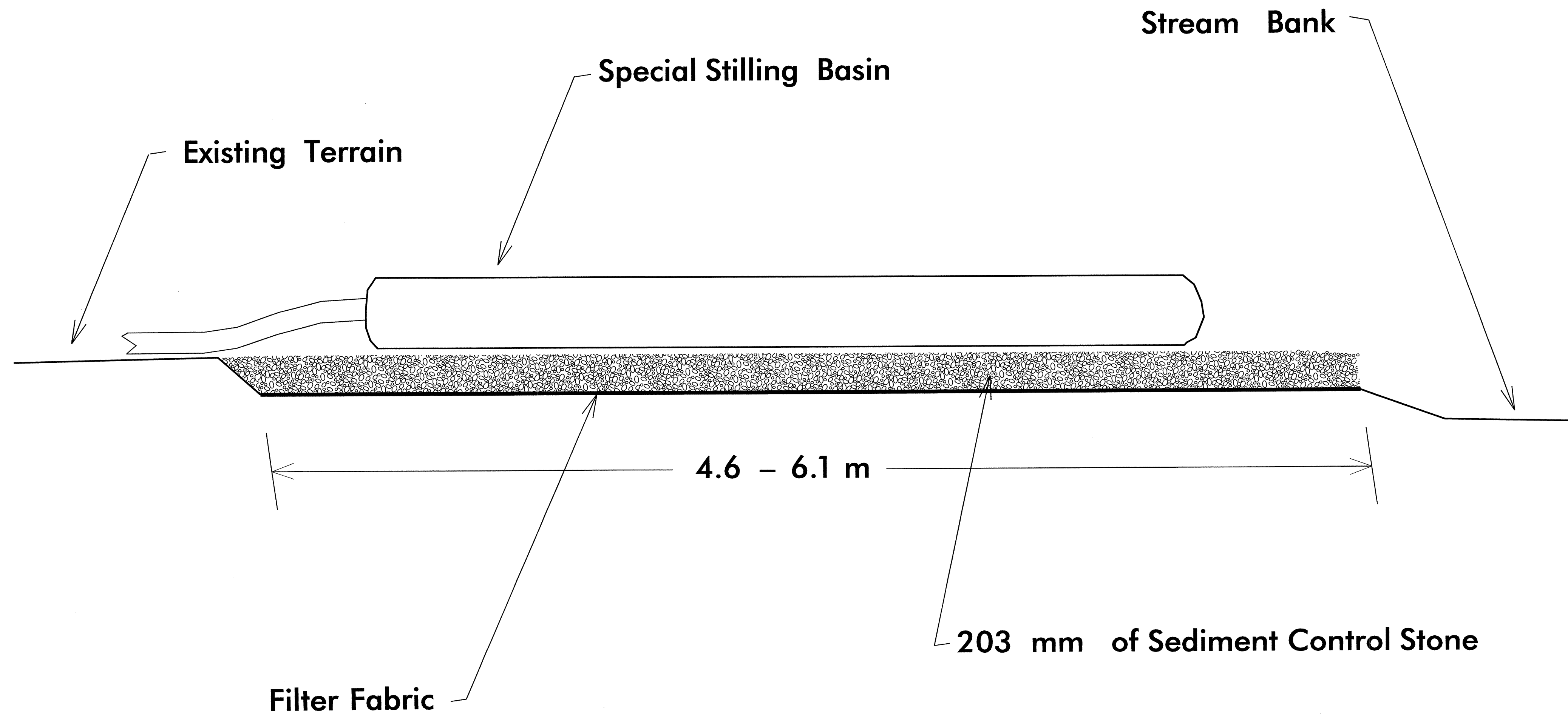


**TYPICAL SECTION VIEW**



PROJECT REFERENCE NO.	SHEET NO.
R-2533CC	EC-21
R / W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

# SPECIAL STILLING BASIN WITH ROCK PAD



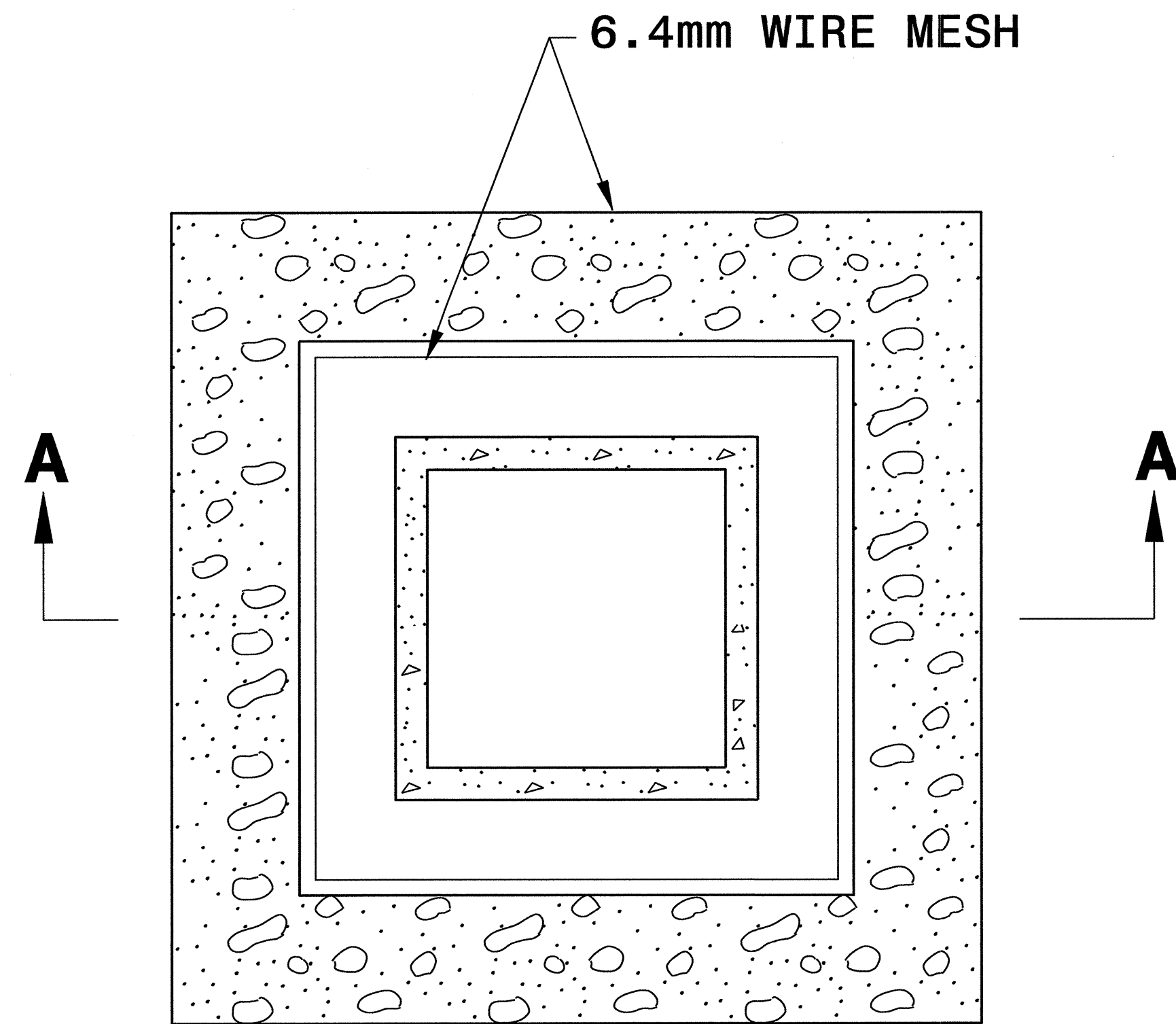
Not To Scale

Note: Provide Stabilized Outlet to Streambank

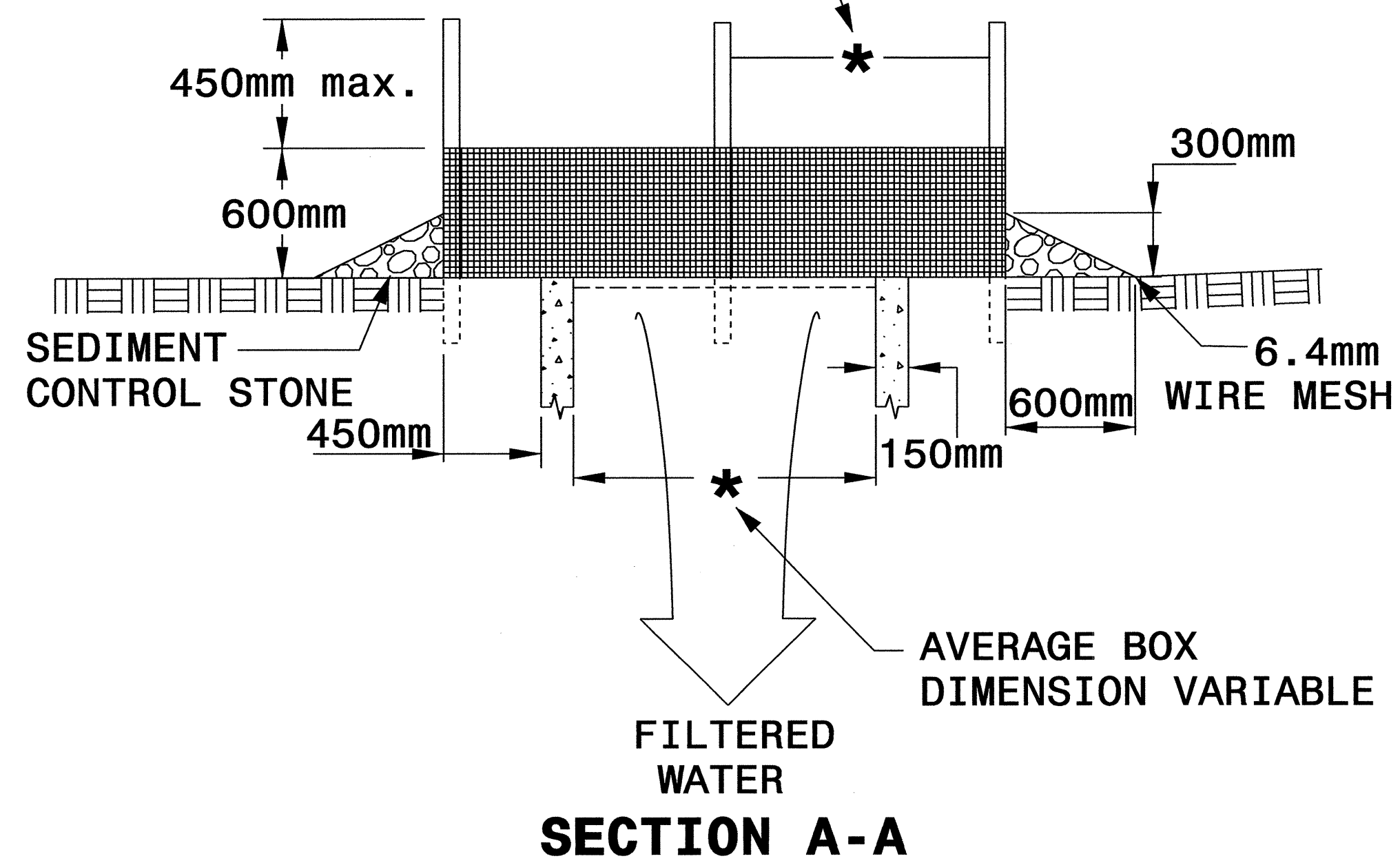


PROJECT REFERENCE NO. R-2533CC	SHEET NO. EC-2J
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

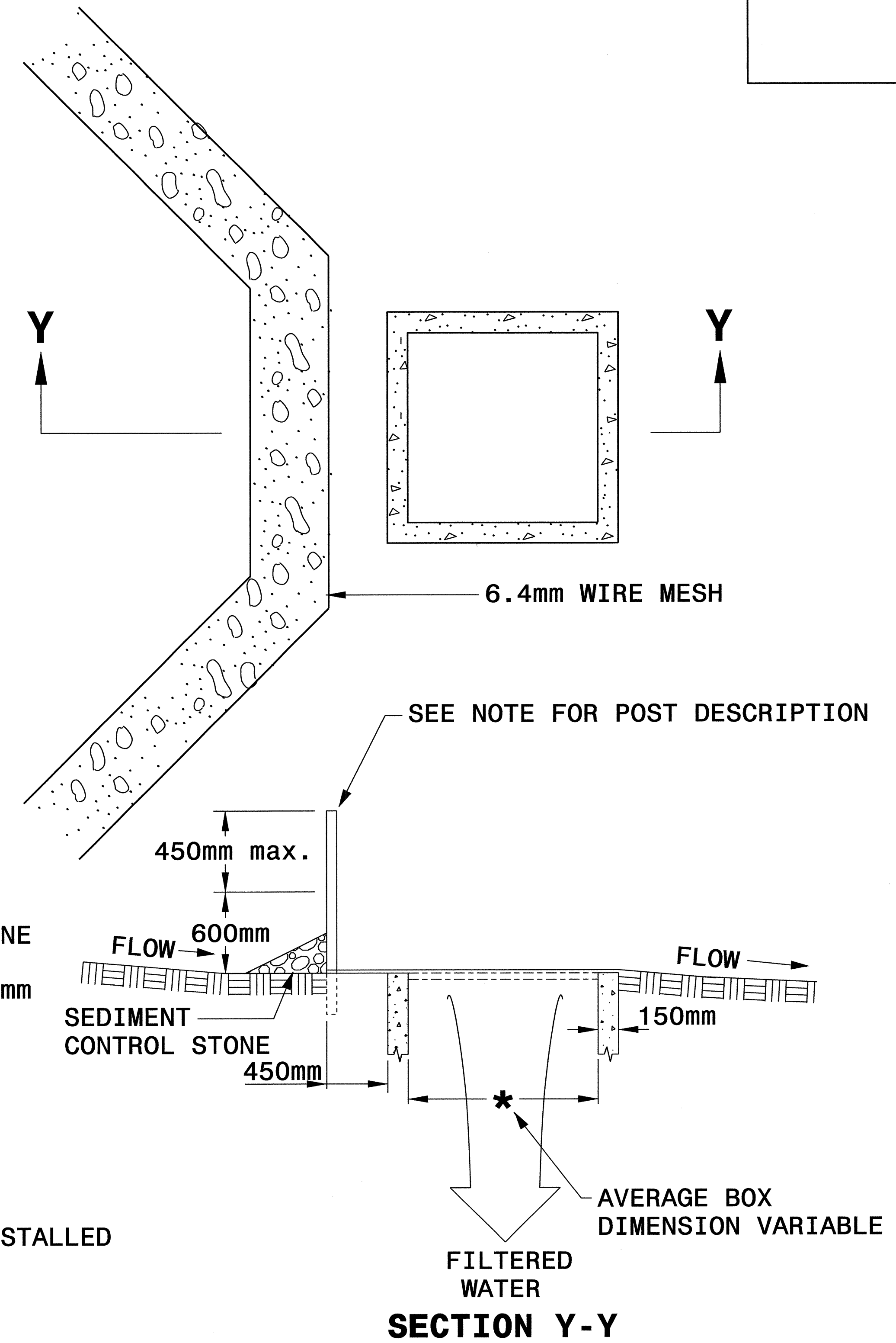
# ROCK INLET SEDIMENT TRAP TYPE 'C' DETAIL



MAXIMUM POST SPACING 1.2m



**MULTI-DIRECTIONAL FLOW**



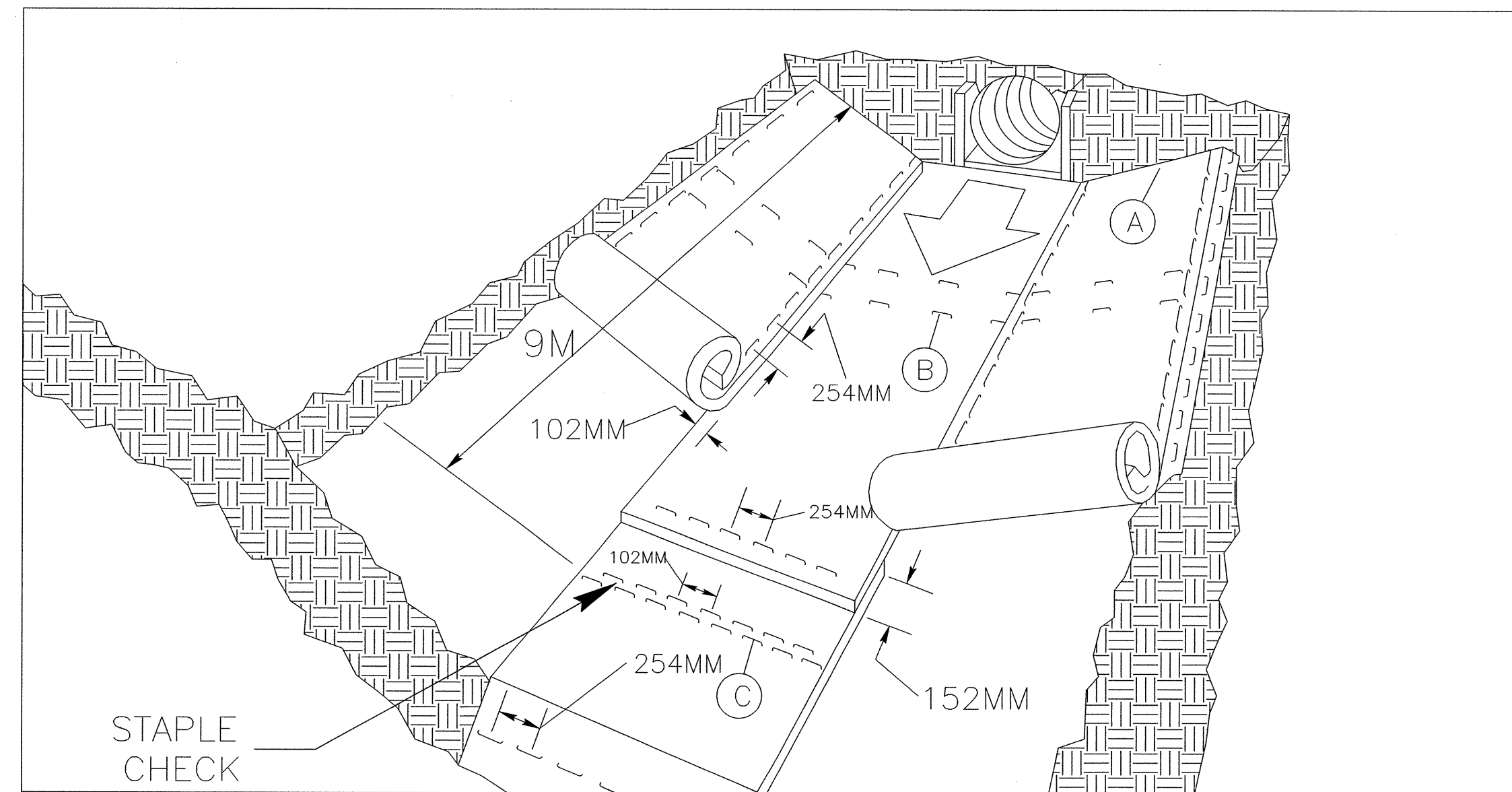
**SINGLE-DIRECTIONAL FLOW**

**NOTE**  
USE NO. 5 OR NO. 57 STONE FOR SEDIMENT CONTROL.  
USE HARDWARE CLOTH 0.65mm WIRE MESH WITH 6.4mm MESH OPENINGS.  
PLACE TOP OF WIRE MESH A MINIMUM OF 300mm BELOW THE SHOULDER OR ANY DIVERSION POINT.  
INSTALL WIRE MESH UNDER SEDIMENT CONTROL STONE.  
USE 1.5m STEEL POST, INSTALLED 450mm DEEP MINIMUM, AND OF THE SELF-FASTENER ANGLE STEEL TYPE.  
SPACE POST A MAXIMUM OF 1.2m.



PROJECT REFERENCE NO. R-25330C	SHEET NO. EC-2K
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

# MATTING INSTALLATION DETAIL



**MATTING IN DITCHES**

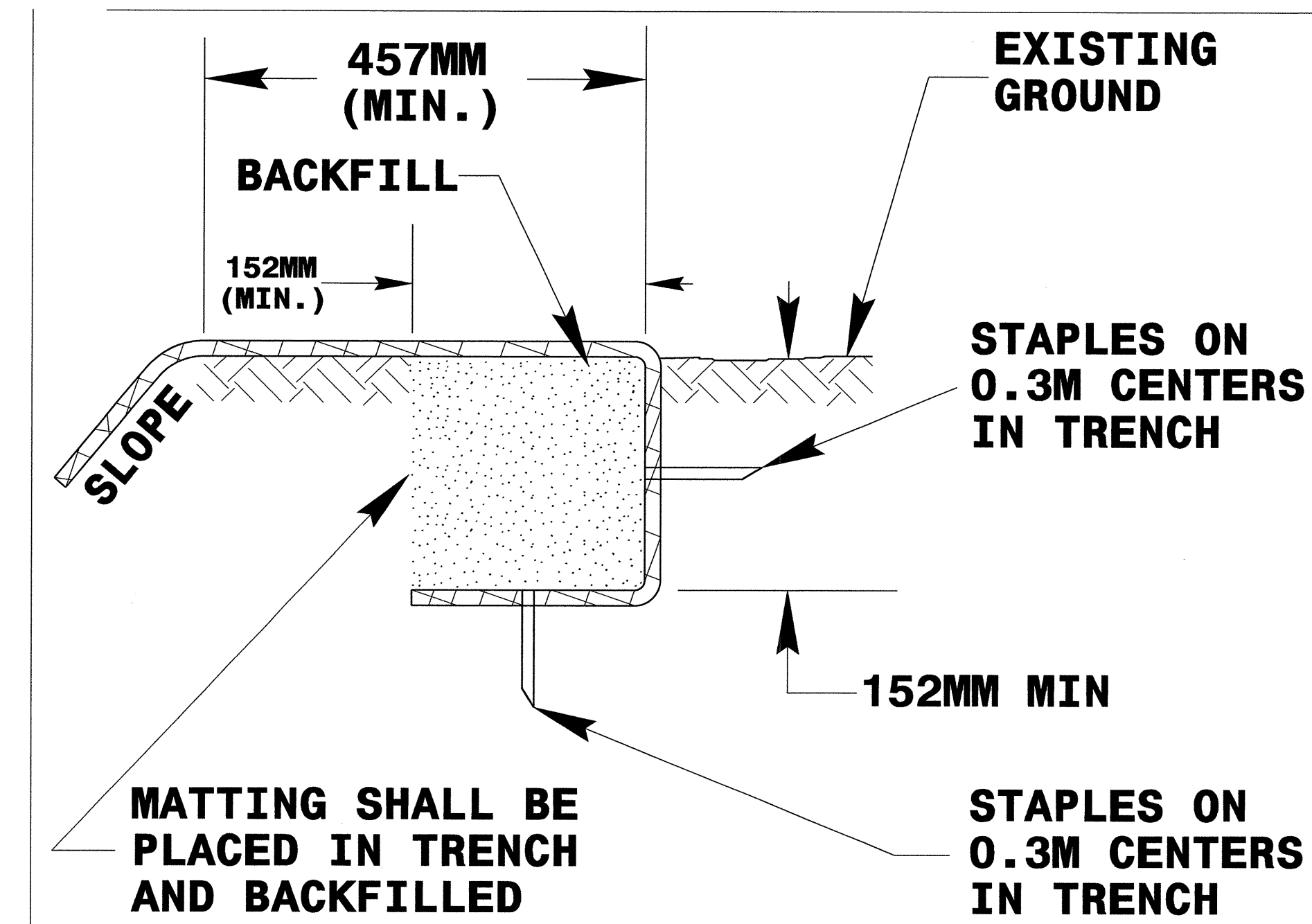
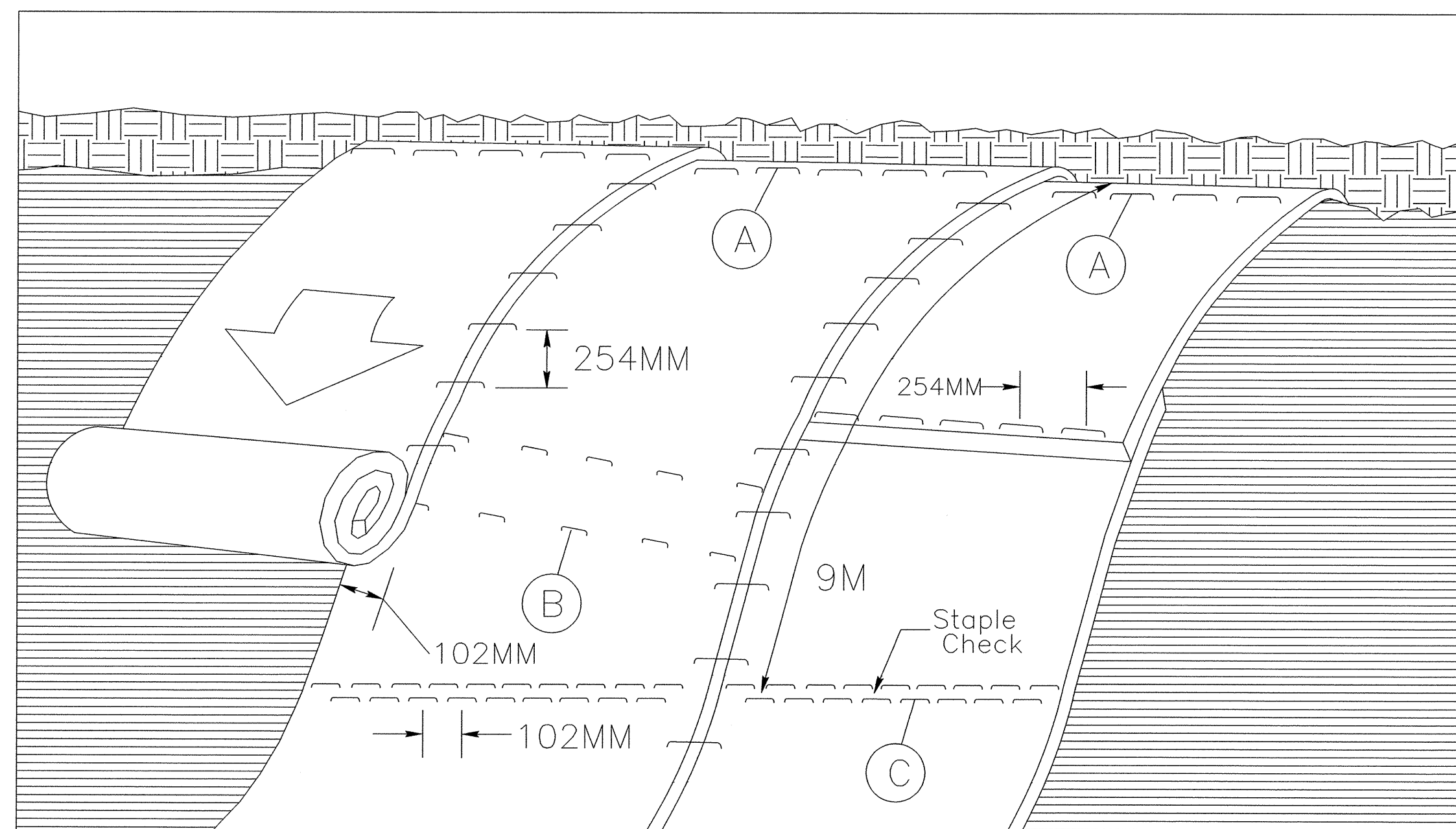


DIAGRAM (A)



**MATTING ON SLOPES**

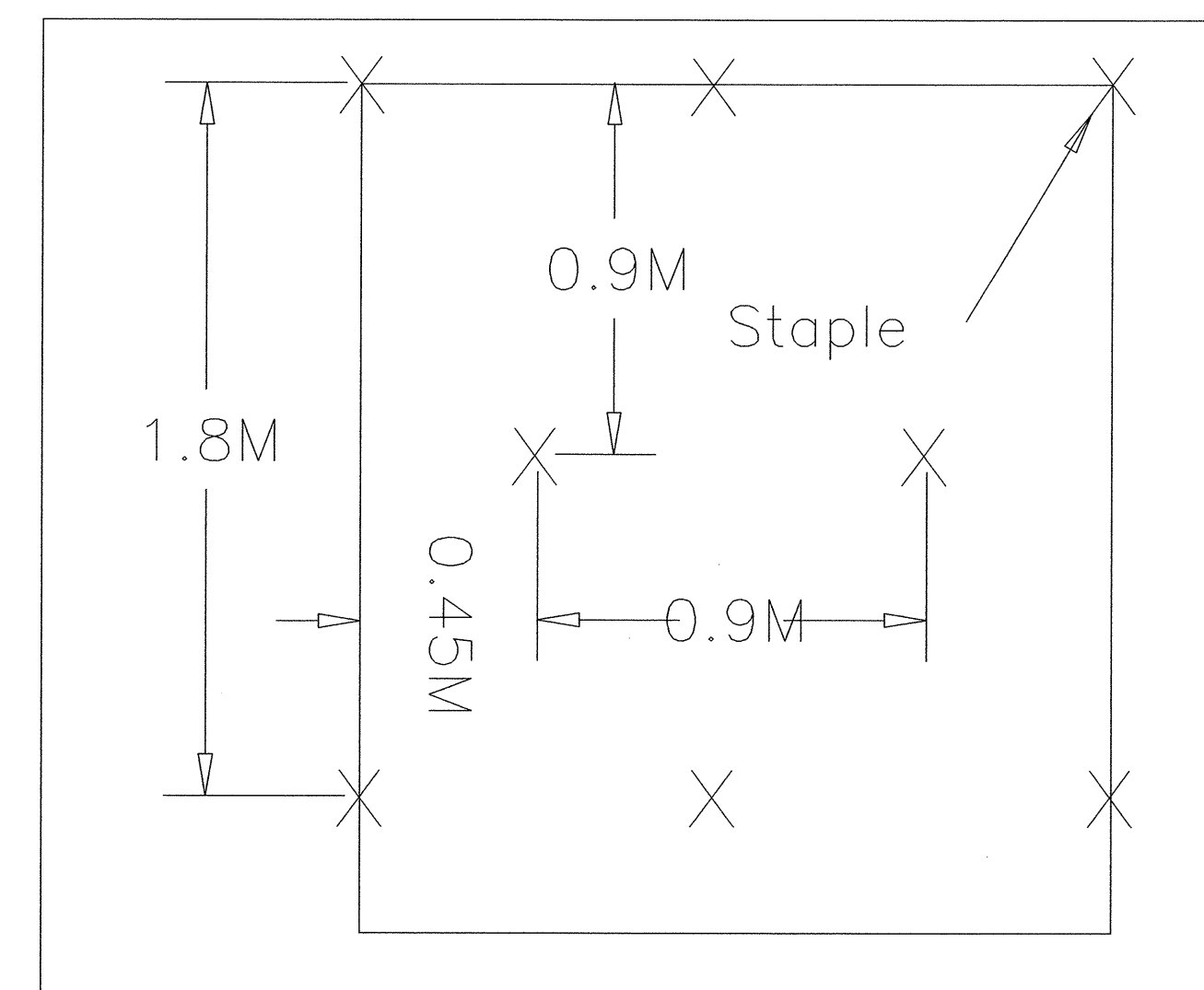


DIAGRAM (B)

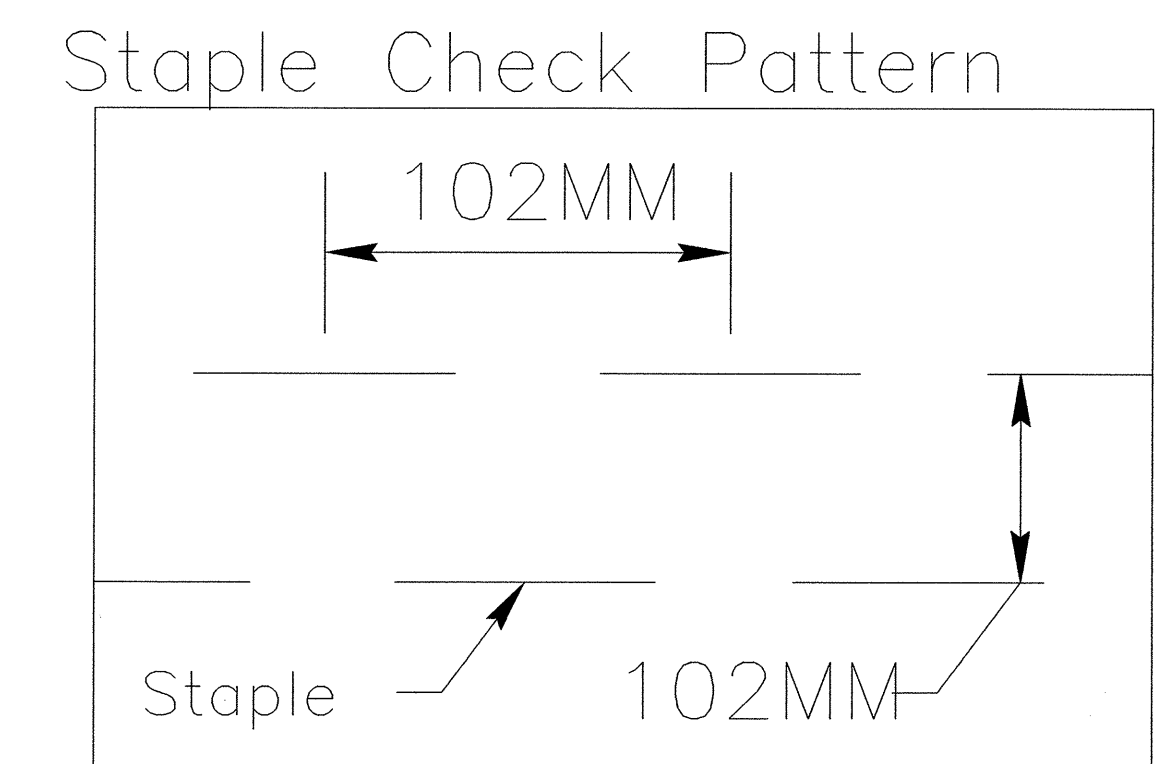


DIAGRAM (C)


**NOTES:**

THIS DETAIL APPLIES TO STRAW, EXCELSIOR, AND PERMANENT SOIL REINFORCEMENT MAT (PSRM) INSTALLATION.

STAPLES SHALL BE NO. 11 GAUGE STEEL WIRE FORMED INTO A "U" SHAPE WITH A MINIMUM THROAT WIDTH OF 25MM AND NOT LESS THAN 152MM IN LENGTH.

NOT TO SCALE



	PROJ. REFERENCE NO. R-2533CC	SHEET NO. EC-4/CONST.6
	HIGHWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
Prepared in the Office of:		
CONST. REV.		
R/W REV.		

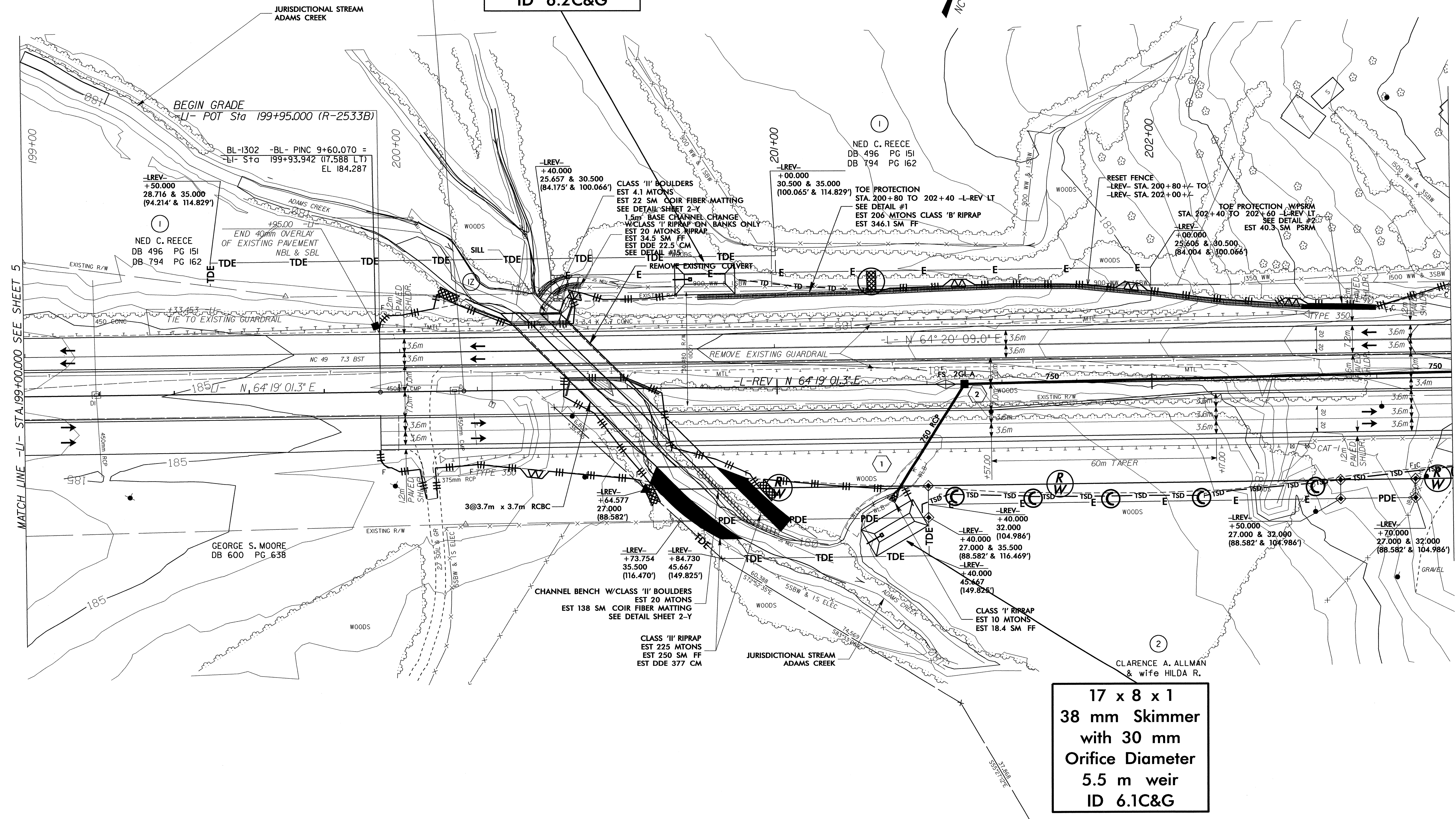
NOTE: PLACE TEMPORARY ROCK SEDIMENT DAMS TYPE- B AND TEMPORARY ROCK SILT CHECKS TYPE-A AT DRAINAGE OUTLETS.

CLEARING AND GRUBBING EROSION CONTROL FOR CONSTRUCTION SHEET 6

BM 113 EL=182.406, N 183847 E 475753  
 LI STA 199+91.40 LT  
 RR SPIKE IN BASE OF 375MM TWIN SYCAMORE TREE

16 x 8 x 1  
 38 mm Skimmer  
 with 30 mm  
 Orifice Diameter  
 5.5 m weir  
 ID 6.2C&G

BEGIN T.I.P. PROJECT R-2533CC  
 -L-REV POT Sta 200+16.400 L.A.=  
 -LI- POT Sta 200+17.273 L.B.(R-2533B)



MATCH LINE -LI- STA.199+00.000 SEE SHEET 5

MATCH LINE -L-REV STA.202+80 SEE SHEET 7

DATE: 11/15/17  
 TIME: 10:00 AM  
 USER: JLD/MS  
 CON: 10/15/17

17 x 8 x 1  
 38 mm Skimmer  
 with 30 mm  
 Orifice Diameter  
 5.5 m weir  
 ID 6.1C&G



PROJECT REFERENCE NO. R-2533CC	SHEET NO. EC-5/CONST.6
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

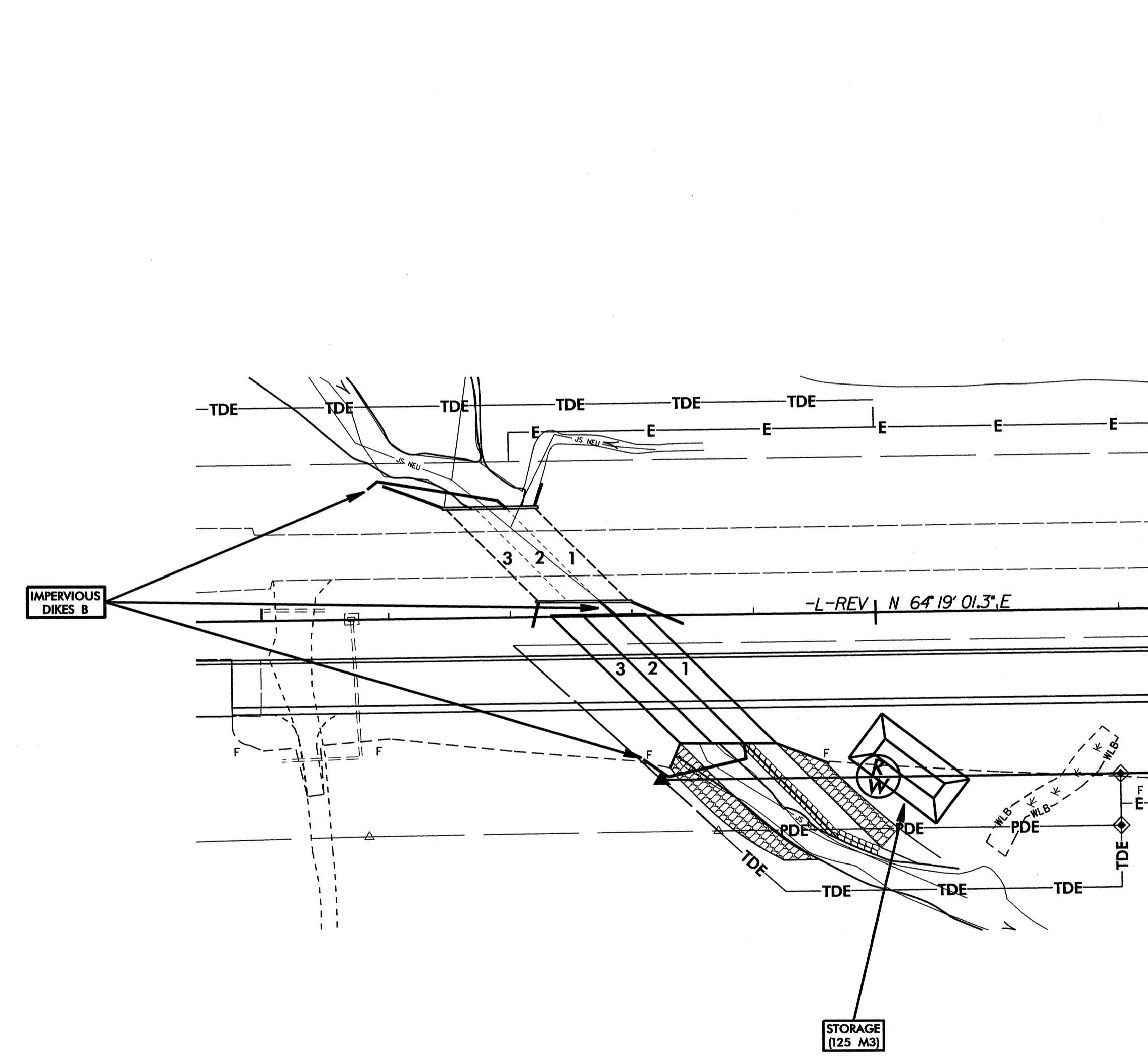
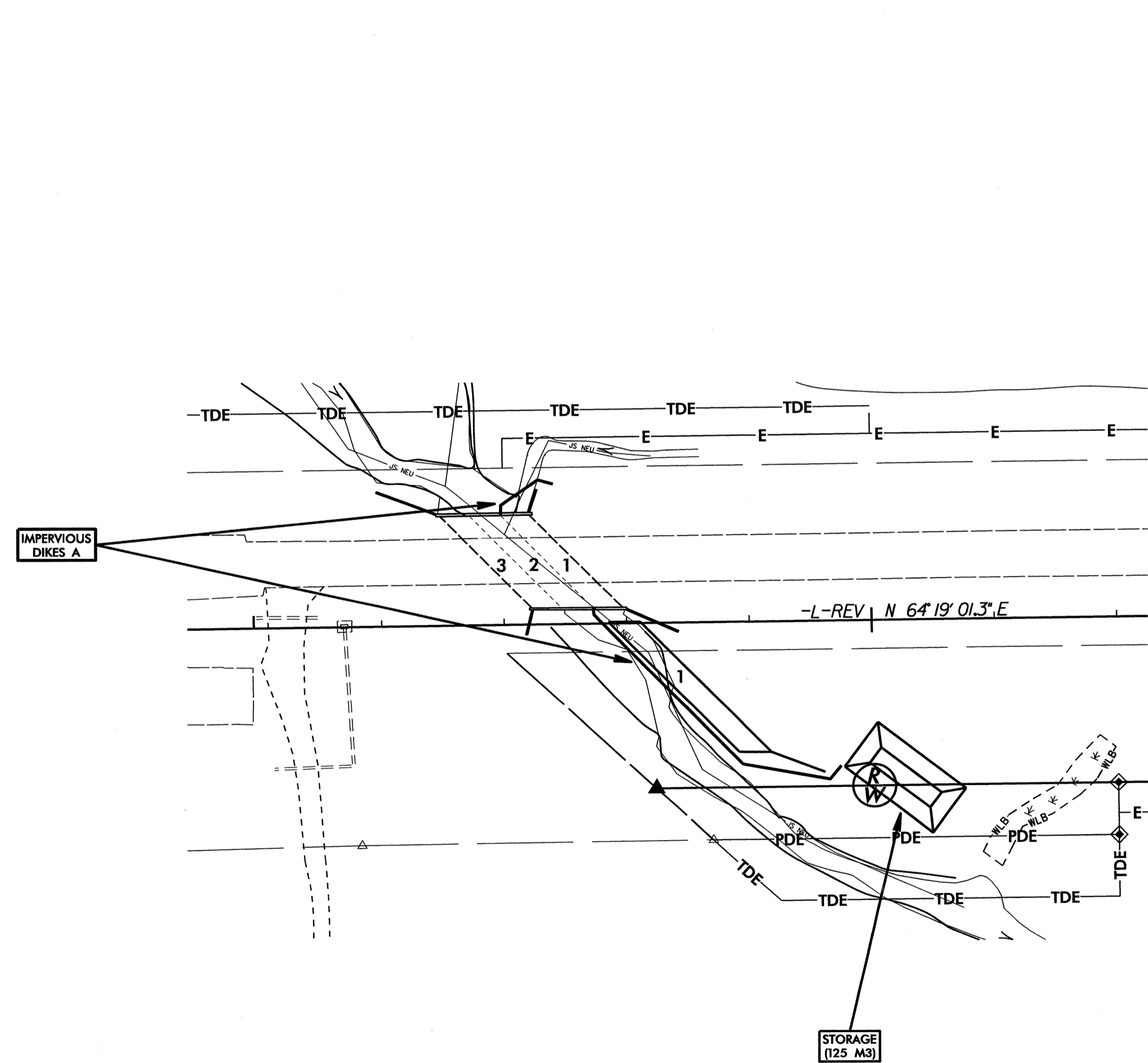
# CULVERT CONSTRUCTION SEQUENCE STA. 200+54.65 -L-REV (SHEET 1 OF 2)

## PHASE I

1. CONSTRUCT STILLING BASIN (125 M3).
2. CONSTRUCT IMPERVIOUS DIKES A, DIVERTING FLOW THROUGH EXISTING BARRELS 2 AND 3.
3. CONSTRUCT DOWNSTREAM PORTION OF BARREL 1 OF PROPOSED CULVERT.
4. REMOVE IMPERVIOUS DIKES A.

## PHASE II

5. CONSTRUCT IMPERVIOUS DIKES B, DIVERTING FLOW THROUGH BARREL 1 OF THE EXISTING CULVERT AND THE DOWNSTREAM PORTION OF THE PROPOSED CULVERT.
6. CONSTRUCT DOWNSTREAM PORTION OF BARRELS 2 AND 3 OF THE PROPOSED CULVERT.
7. REMOVE IMPERVIOUS DIKES B AND CONSTRUCT OUTLET CHANNEL IMPROVEMENTS.
8. REMOVE STILLING BASIN.
9. CONSTRUCT ROADWAY OVER COMPLETED PORTION OF THE PROPOSED CULVERT AND SHIFT TRAFFIC.



**NOT TO SCALE**





PROJECT REFERENCE NO.	SHEET NO.
R-2533CC	EC-6/CONST.6
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

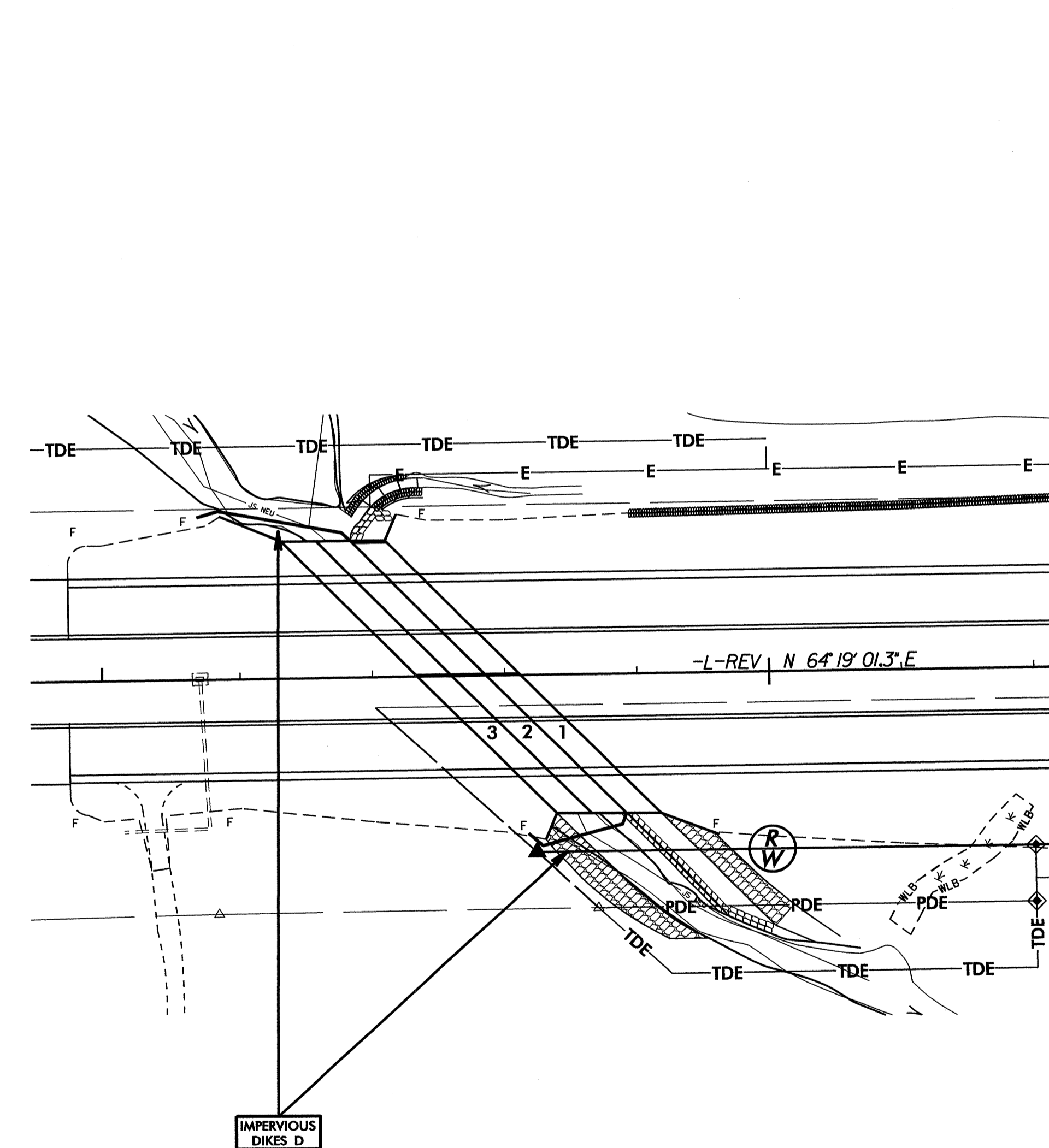
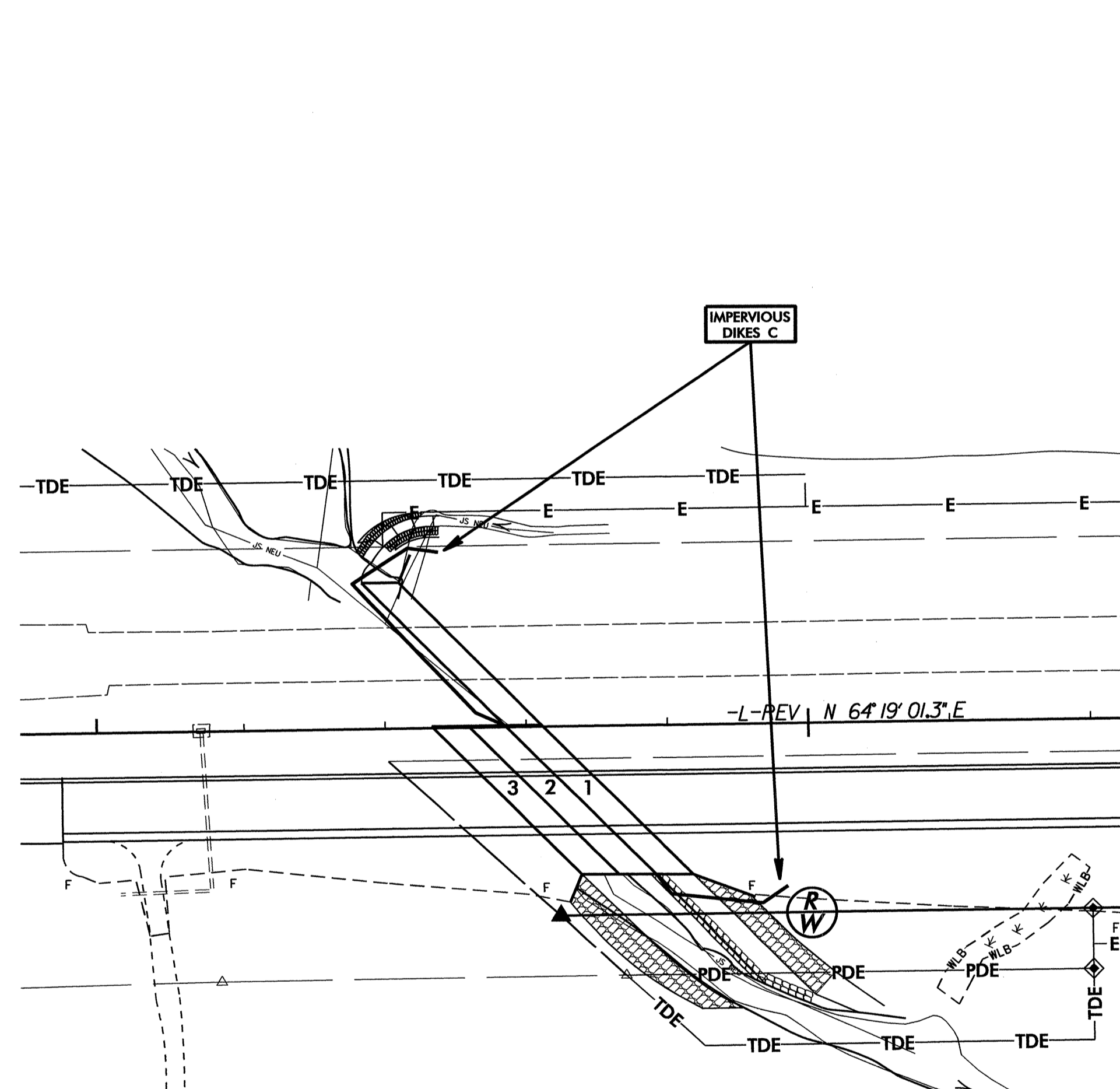
# CULVERT CONSTRUCTION SEQUENCE STA. 200+54.65 -L-REV (SHEET 2 OF 2)

## PHASE III


10. UTILIZE SPECIAL STILLING BASIN(S) AS NEEDED THROUGHOUT REMAINDER OF CULVERT CONSTRUCTION.
11. REMOVE THE EXISTING CULVERT.
12. CONSTRUCT IMPERVIOUS DIKES C AND NECESSARY UPSTREAM CHANNEL IMPROVEMENTS, DIVERTING FLOW THROUGH BARRELS 2 AND 3.
13. CONSTRUCT REMAINDER OF BARREL 1.
14. REMOVE IMPERVIOUS DIKES C.

## PHASE IV

15. CONSTRUCT IMPERVIOUS DIKES D, DIVERTING FLOW THROUGH COMPLETED BARREL 1.
16. CONSTRUCT REMAINDER OF BARRELS 2 AND 3.
17. REMOVE IMPERVIOUS DIKES D.
18. COMPLETE ANY REMAINING UPSTREAM/DOWNSTREAM CHANNEL IMPROVEMENTS.
19. REMOVE ANY REMAINING SPECIAL STILLING BASIN(S), AND COMPLETE ROADWAY.



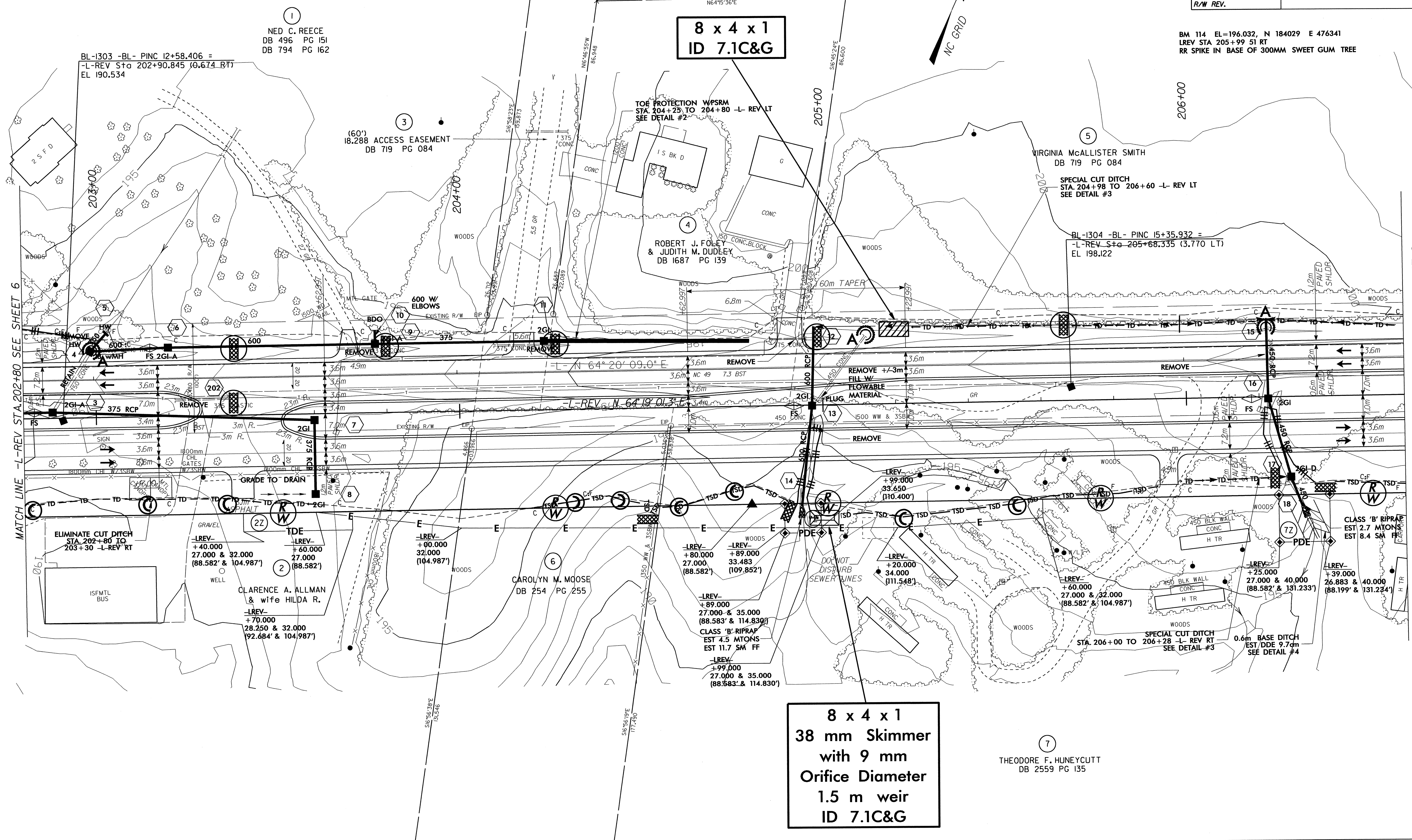
**NOT TO SCALE**

	PROJ. REFERENCE NO. R-2533CC	SHEET NO. EC-7/CONST.7
	HIGHWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
Prepared in the Office of:		
CONST. REV.		
R/W REV.		

CLEARING AND GRUBBING EROSION CONTROL FOR CONSTRUCTION SHEET 7

NOTE: PLACE TEMPORARY ROCK SEDIMENT DAMS TYPE-B AND TEMPORARY ROCK SILT CHECKS TYPE-A AT DRAINAGE OUTLETS.

BM 114 EL=196.032, N 184029 E 476341  
LREV STA 205+99 51 RT  
RR SPIKE IN BASE OF 300MM SWEET GUM TREE



8 x 4 x 1  
ID 7.1C&G

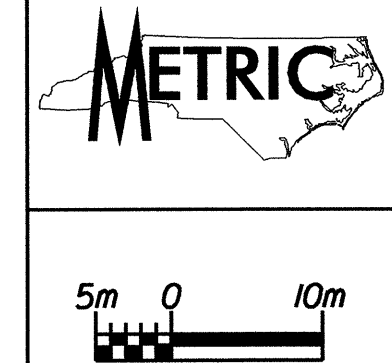
8 x 4 x 1  
38 mm Skimmer  
with 9 mm  
Orifice Diameter  
1.5 m weir  
ID 7.1C&G

MATCH LINE -L-REV STA.202+80 SEE SHEET 6

MATCH LINE -L-REV STA.206+60 SEE SHEET 8

USER: #50565656  
DATE: #50565656  
TIME: #50565656

PROJ. REFERENCE NO. R-2533CC		SHEET NO. EC-8/CONST.8	
HIGHWAY DESIGN ENGINEER		HYDRAULICS ENGINEER	
Prepared in the Office of:			
CONST. REV.		R/W REV.	



CLEARING AND GRUBBING  
EROSION CONTROL FOR  
CONSTRUCTION SHEET 8

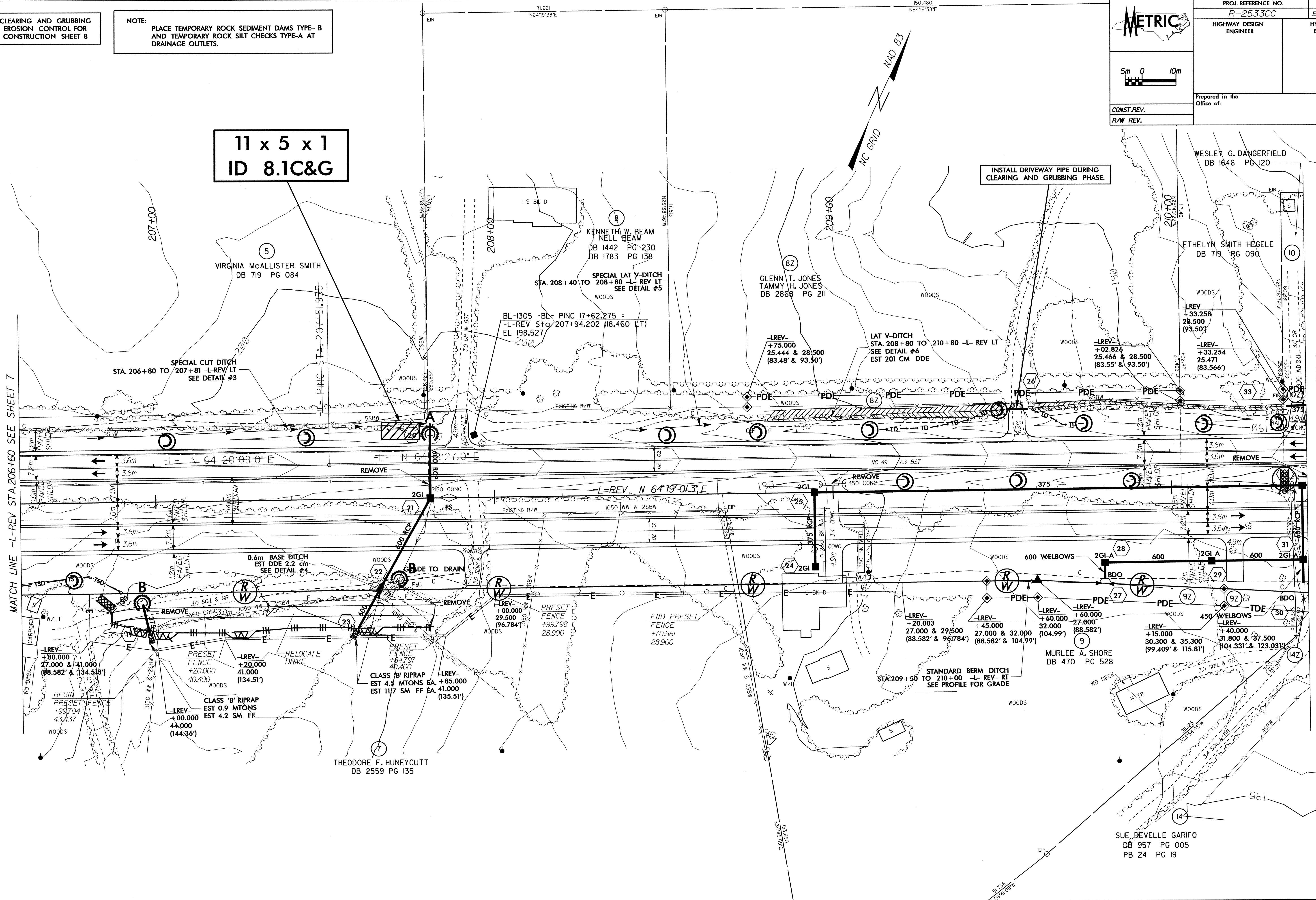
NOTE:  
PLACE TEMPORARY ROCK SEDIMENT DAMS TYPE-B  
AND TEMPORARY ROCK SILT CHECKS TYPE-A AT  
DRAINAGE OUTLETS.

**11 x 5 x 1  
ID 8.1C&G**

INSTALL DRIVEWAY PIPE DURING  
CLEARING AND GRUBBING PHASE.

MATCH LINE -L-REV STA.206+60 SEE SHEET 7

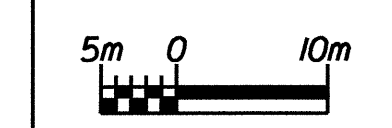
MATCH LINE -L-REV STA.210+40 SEE SHEET 9



USER: #USER#  
DATE: #DATE#  
TIME: #TIME#



PROJ. REFERENCE NO. R-2533CC	SHEET NO. EC-9/CONST.9
HIGHWAY DESIGN ENGINEER	HYDRAULICS ENGINEER



CONST. REV.  
R/W REV.

Prepared in the Office of:

CLEARING AND GRUBBING  
EROSION CONTROL FOR  
CONSTRUCTION SHEET 9

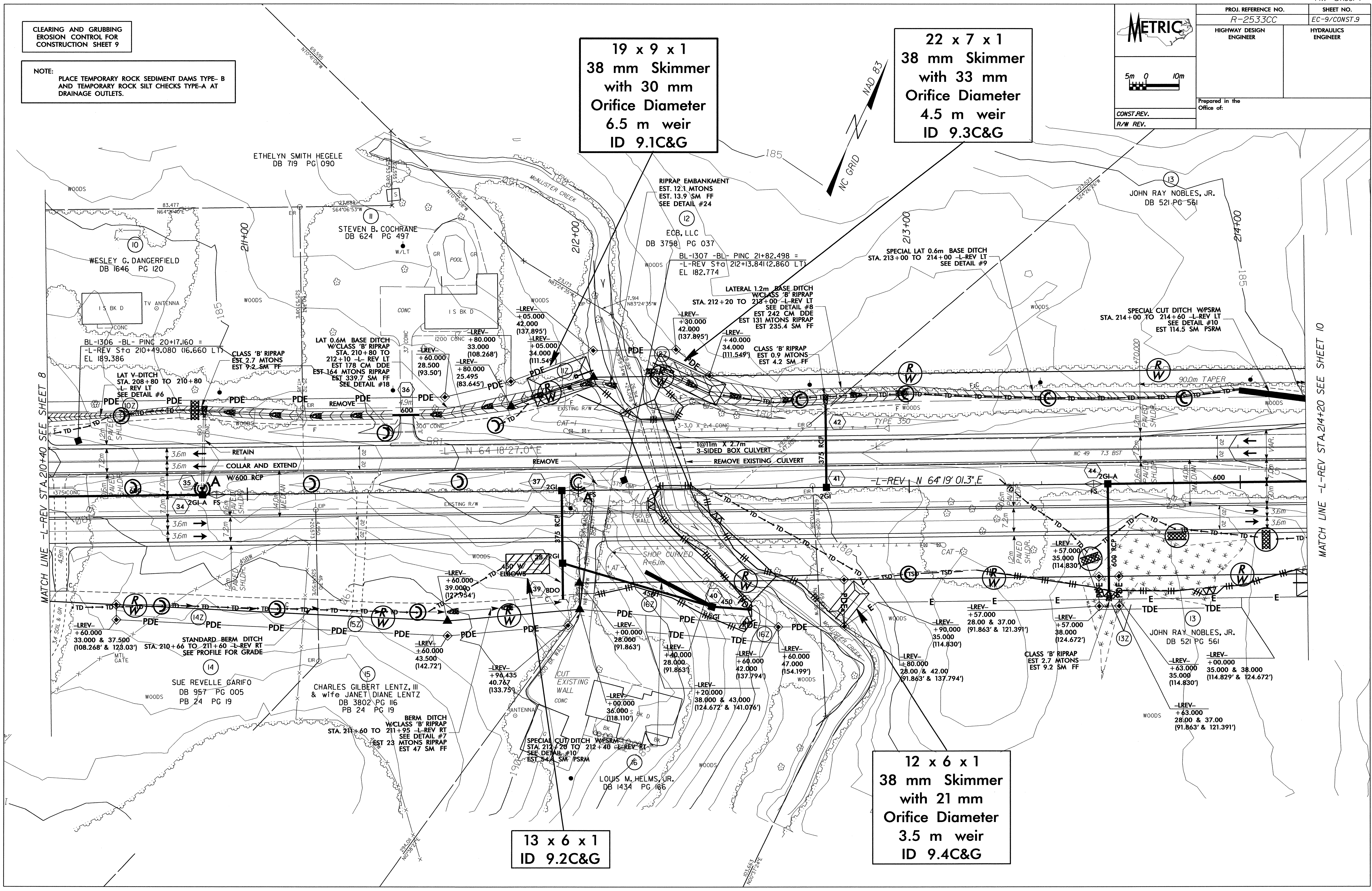
NOTE:  
PLACE TEMPORARY ROCK SEDIMENT DAMS TYPE- B  
AND TEMPORARY ROCK SILT CHECKS TYPE-A AT  
DRAINAGE OUTLETS.

19 x 9 x 1  
38 mm Skimmer  
with 30 mm  
Orifice Diameter  
6.5 m weir  
ID 9.1C&G

22 x 7 x 1  
38 mm Skimmer  
with 33 mm  
Orifice Diameter  
4.5 m weir  
ID 9.3C&G

12 x 6 x 1  
38 mm Skimmer  
with 21 mm  
Orifice Diameter  
3.5 m weir  
ID 9.4C&G

13 x 6 x 1  
ID 9.2C&G



MATCH LINE - L-REV STA. 210+40 SEE SHEET 8

MATCH LINE - L-REV STA. 214+20 SEE SHEET 10

USER: #USER##  
DATE: #DATE##  
TIME: #TIME##



PROJECT REFERENCE NO. SHEET NO.

R-2533CC EC-10/CONST.9

R/W SHEET NO.

ROADWAY DESIGN ENGINEER

HYDRAULICS ENGINEER

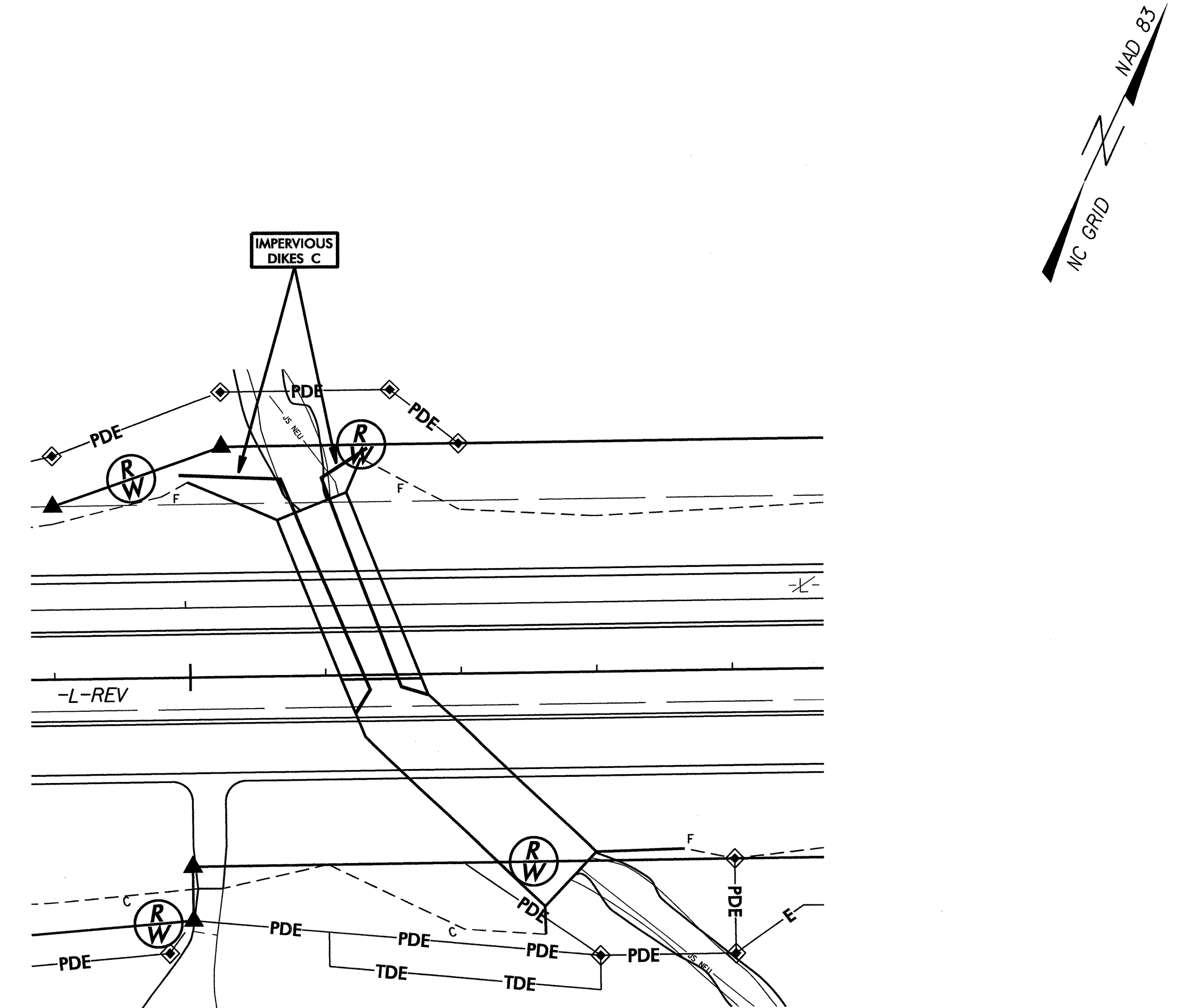
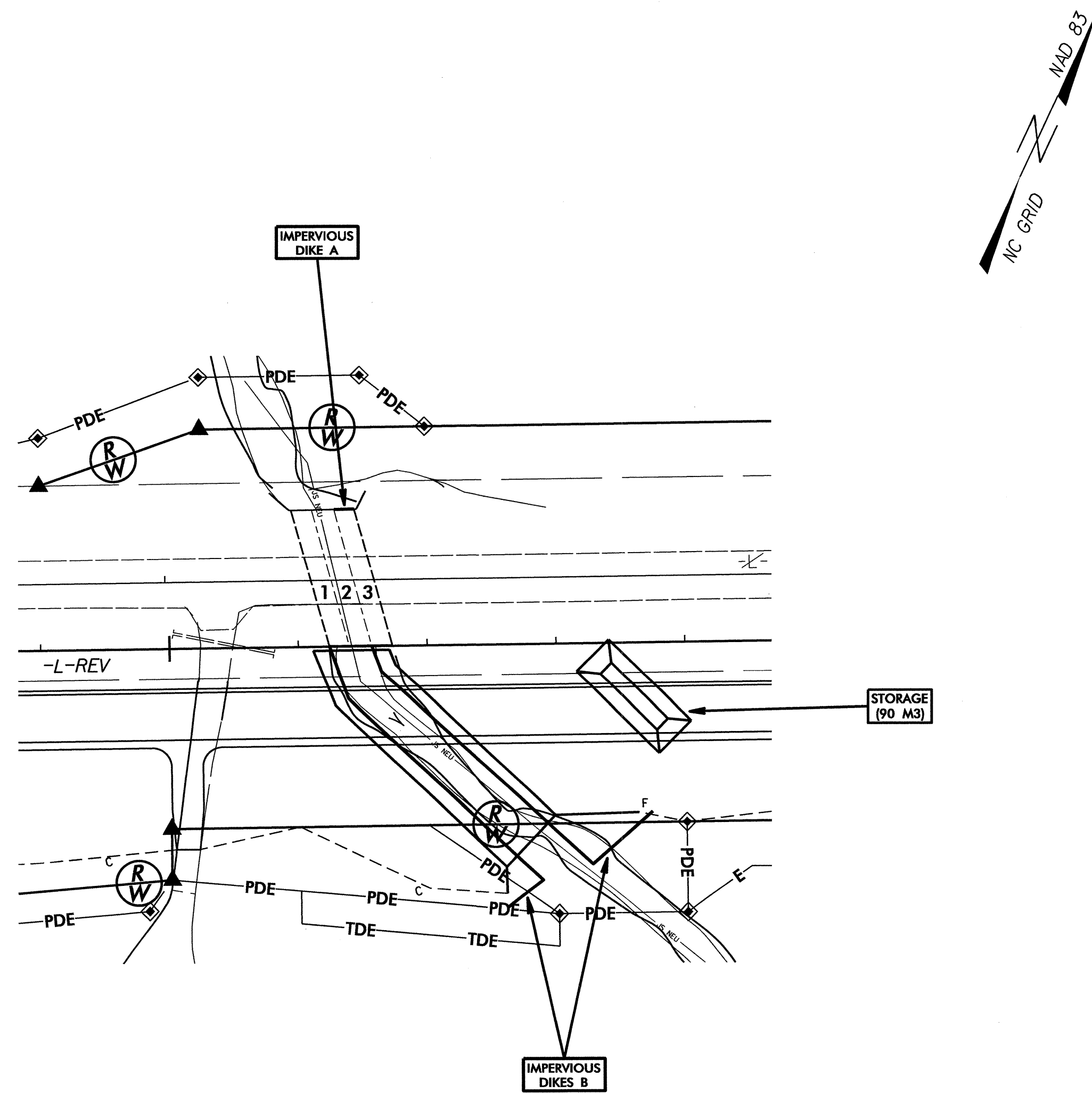
# CULVERT CONSTRUCTION SEQUENCE STA. 212+28 -L-REV

## PHASE I


1. CONSTRUCT STILLING BASIN (90 M3).
2. CONSTRUCT IMPERVIOUS DIKES A AND B, DIVERTING FLOW THROUGH BARRELS 1 AND 2 OF EXISTING CULVERT.
3. REMOVE OUTLET WINGWALLS OF EXISTING CULVERT.
4. CONSTRUCT DOWNSTREAM PORTION OF PROPOSED BOTTOMLESS CULVERT, AND ANY NECESSARY OUTLET CHANNEL IMPROVEMENTS.
5. REMOVE IMPERVIOUS DIKES A AND B AND STILLING BASIN.
6. CONSTRUCT PROPOSED ROADWAY OVER COMPLETED PORTION OF CULVERT AND SHIFT TRAFFIC.

## PHASE II

7. UTILIZE SPECIAL STILLING BASIN(S) AS NEEDED THROUGHOUT REMAINDER OF CULVERT CONSTRUCTION.
8. REMOVE EXISTING CULVERT.
9. CONSTRUCT IMPERVIOUS DIKES C, DIVERTING FLOW.
10. CONSTRUCT REMAINDER OF PROPOSED BOTTOMLESS CULVERT, AND ANY NECESSARY INLET CHANNEL IMPROVEMENTS.
11. REMOVE IMPERVIOUS DIKES C.
12. REMOVE ANY REMAINING SPECIAL STILLING BASIN(S), AND COMPLETE ROADWAY.



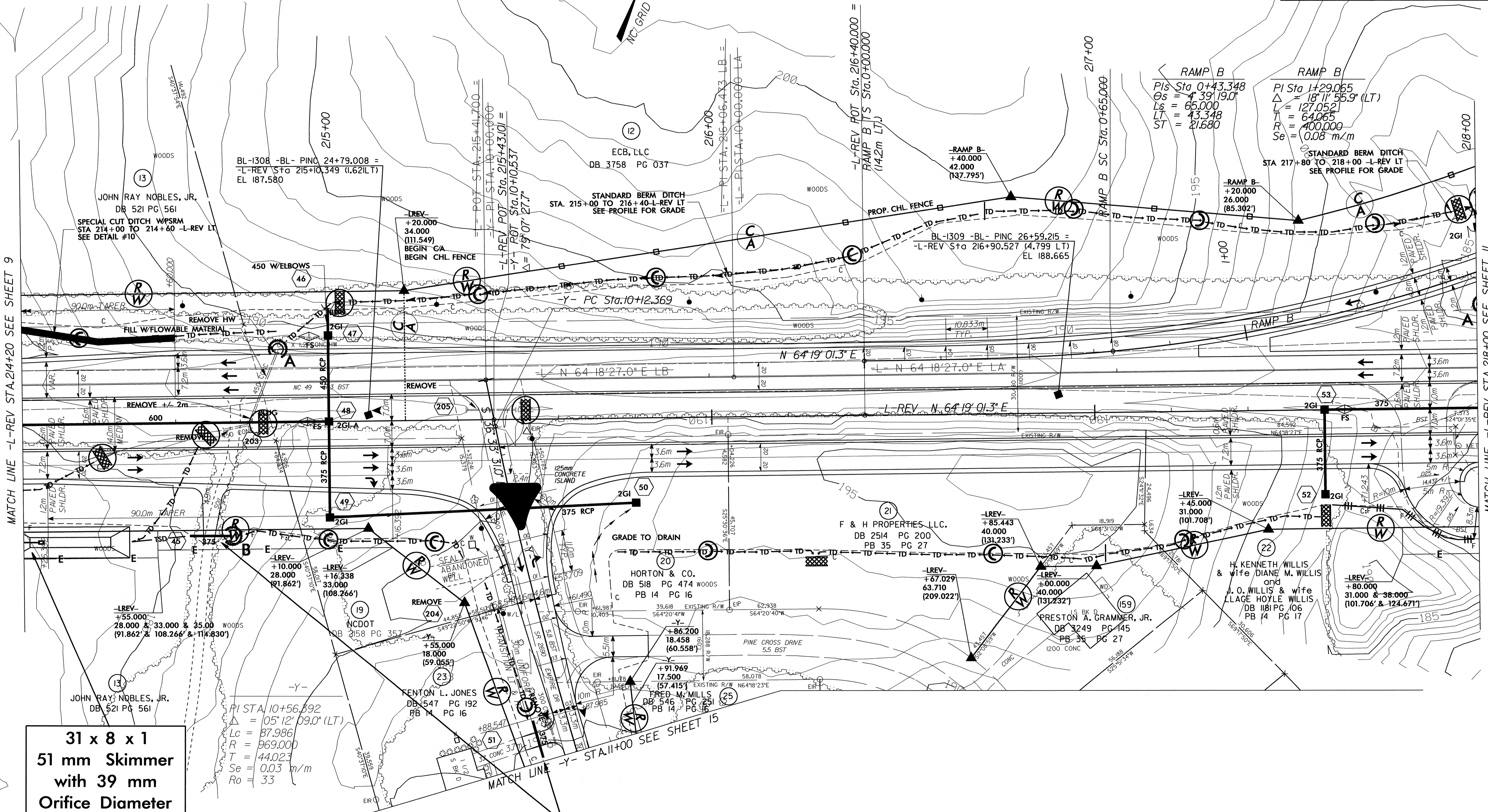
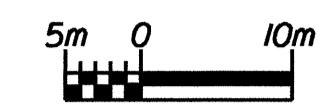
**NOT TO SCALE**

		PROJ. REFERENCE NO. <b>R-2533CC</b>	SHEET NO. <b>EC-II/CONST.10</b>
HIGHWAY DESIGN ENGINEER		HYDRAULICS ENGINEER	
Prepared in the Office of:			
CONST. REV.			
R/W REV.			

CLEARING AND GRUBBING EROSION CONTROL FOR CONSTRUCTION SHEET 10

NOTE: PLACE TEMPORARY ROCK SEDIMENT DAMS TYPE-B AND TEMPORARY ROCK SILT CHECKS TYPE-A AT DRAINAGE OUTLETS.

BM 1 EL=188.489, N 184635 E 477358  
 LREV STA 217+79 54 LT  
 RR SPIKE IN BASE OF 610MM RED OAK



31 x 8 x 1  
 51 mm Skimmer  
 with 39 mm  
 Orifice Diameter  
 5.5 m weir  
 ID 10.1C&G

INSTALL DRIVEWAY PIPE DURING CLEARING AND GRUBBING PHASE.

DATE: 05/21/15 USER: JLD/MS TIME: 08:15:00

**22 x 11 x 1**  
 51 mm Skimmer  
 with 39 mm  
 Orifice Diameter  
 8.5 m weir  
 ID 11.6C&G

**22 x 11 x 1**  
 51 mm Skimmer  
 with 39 mm  
 Orifice Diameter  
 8.5 m weir  
 ID 11.1C&G

**11 x 5 x 1**  
 38 mm Skimmer  
 with 15 mm  
 Orifice Diameter  
 2.5 m weir  
 ID 11.5C&G

**17 x 4.5 x 1**  
 38 mm Skimmer  
 with 21 mm  
 Orifice Diameter  
 2 m weir  
 ID 11.3C&G

**24 x 8 x 1**  
 38 mm Skimmer  
 with 33 mm  
 Orifice Diameter  
 5.5 m weir  
 ID 11.2C&G

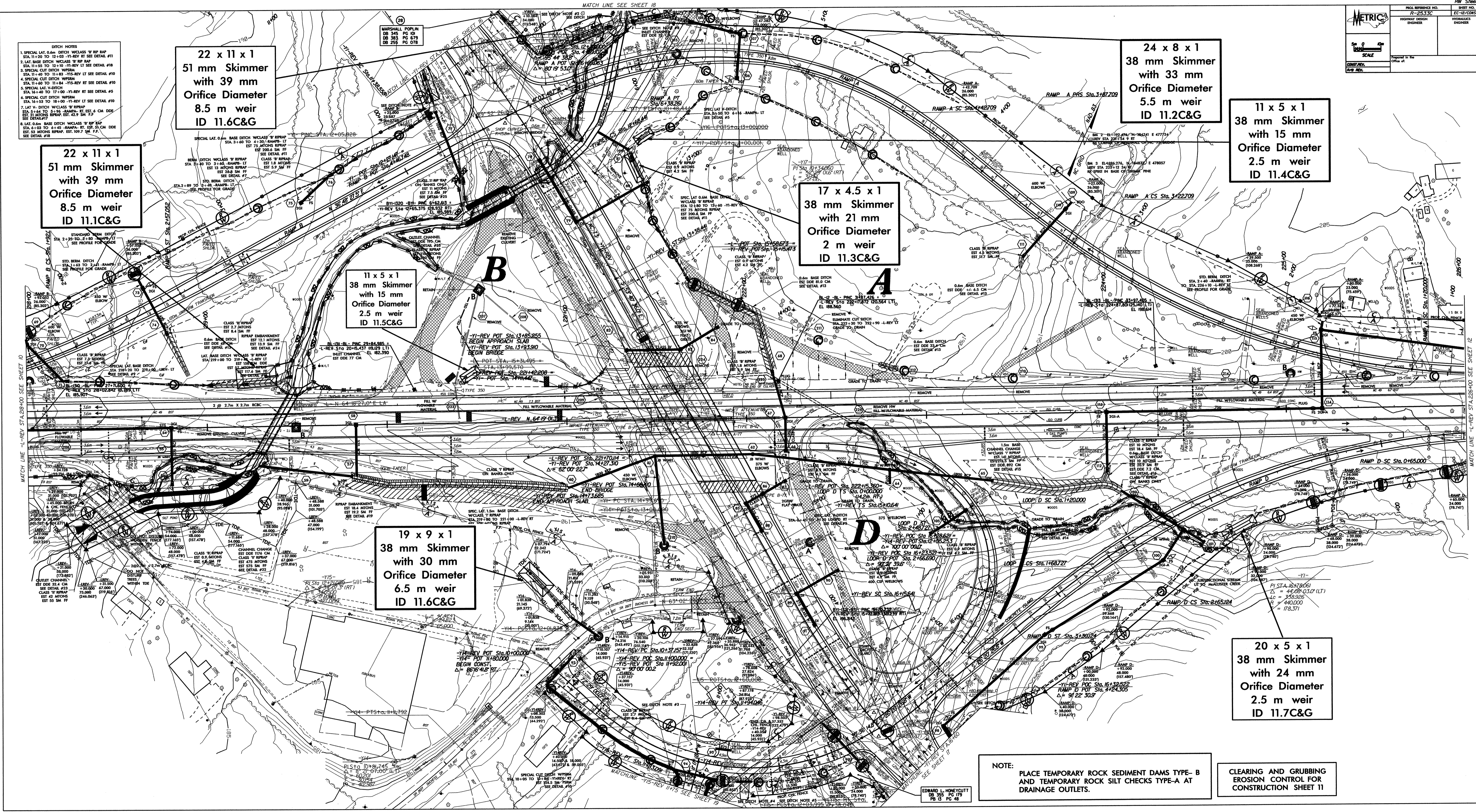
**11 x 5 x 1**  
 38 mm Skimmer  
 with 15 mm  
 Orifice Diameter  
 2.5 m weir  
 ID 11.4C&G

**19 x 9 x 1**  
 38 mm Skimmer  
 with 30 mm  
 Orifice Diameter  
 6.5 m weir  
 ID 11.6C&G

**20 x 5 x 1**  
 38 mm Skimmer  
 with 24 mm  
 Orifice Diameter  
 2.5 m weir  
 ID 11.7C&G

NOTE: PLACE TEMPORARY ROCK SEDIMENT DAMS TYPE- B AND TEMPORARY ROCK SILT CHECKS TYPE-A AT DRAINAGE OUTLETS.

CLEARING AND GRUBBING EROSION CONTROL FOR CONSTRUCTION SHEET 11



EDWARD L. WINEVICUTT  
 PG 355 PG 175  
 PG 176



PROJECT REFERENCE NO. R-2533CC	SHEET NO. EC-13/CONST II
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

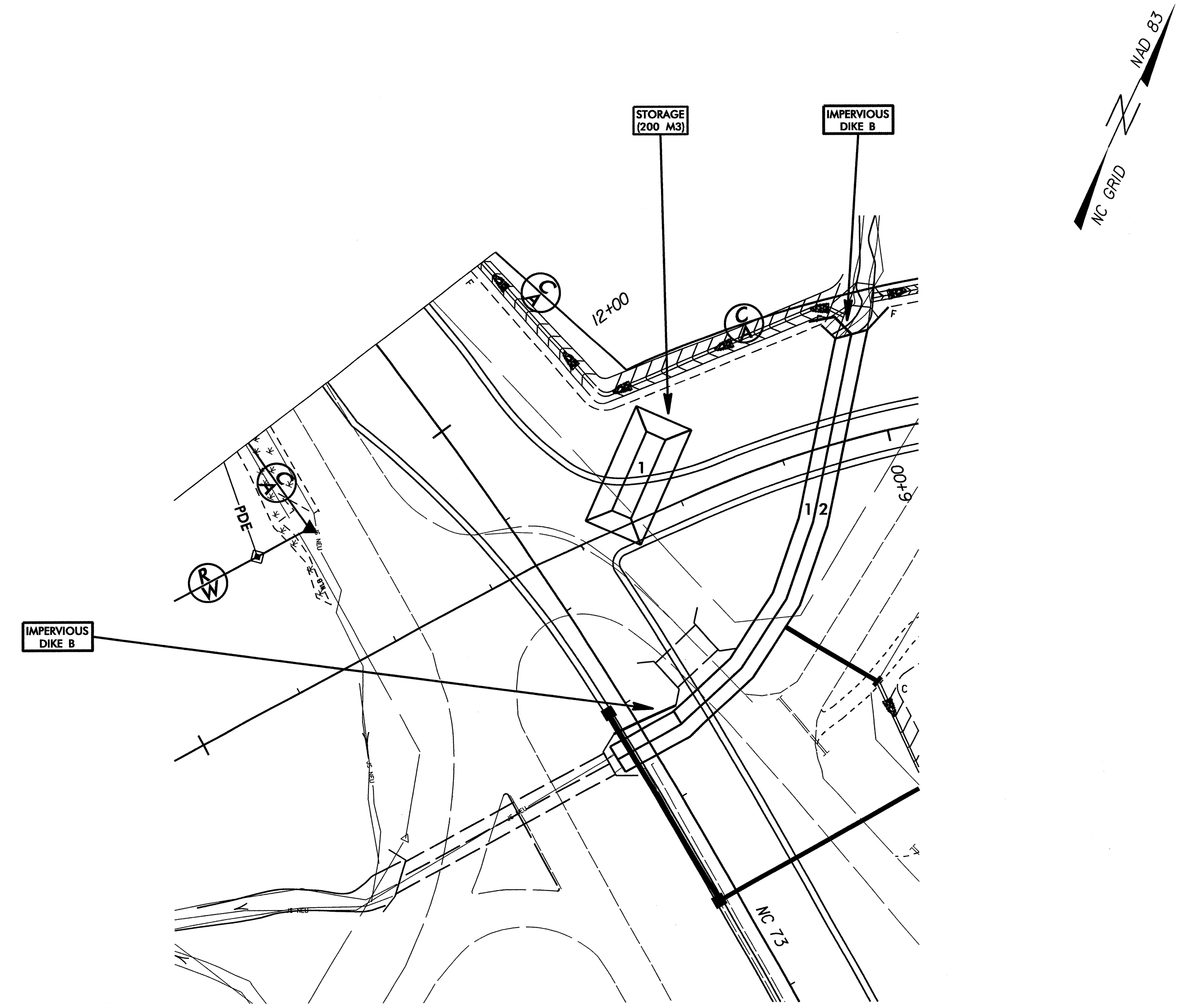
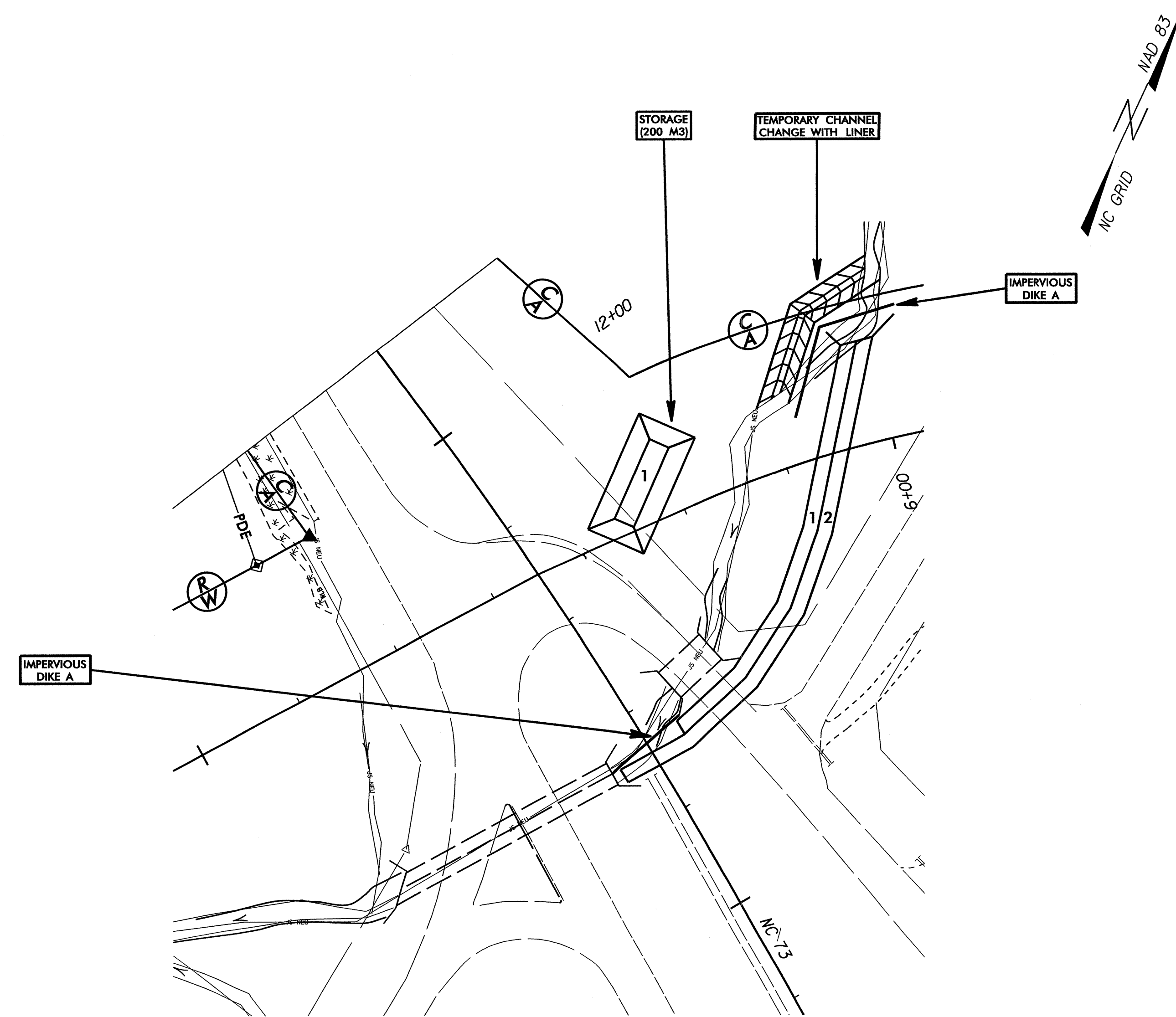
# CULVERT CONSTRUCTION SEQUENCE STA. 12 + 68.32 -Y1-REV (SHEET 1 OF 2)

## PHASE I

1. CONSTRUCT STILLING BASIN 1 (200 M3).
2. CONSTRUCT IMPERVIOUS DIKES A AND TEMPORARY CHANNEL CHANGE WITH LINER (1.2M BASE, 1M DEEP, 2:1 SIDE SLOPES), DIVERTING FLOW.
3. CONSTRUCT APPROXIMATELY 77 METERS OF BARREL 1 AND 97 METERS OF BARREL 2 OF PROPOSED CULVERT.
4. REMOVE IMPERVIOUS DIKES A AND TEMPORARY CHANNEL CHANGE.

## PHASE II

5. CONSTRUCT IMPERVIOUS DIKES B, DIVERTING FLOW THROUGH BARREL 2 OF PROPOSED CULVERT.
6. CONSTRUCT BARREL 1 TO SAME LIMITS AS BARREL 2 OF PROPOSED CULVERT.
7. REMOVE IMPERVIOUS DIKES B AND STILLING BASIN 1.
8. CONSTRUCT INLET CHANNEL IMPROVEMENTS.
9. CONSTRUCT ROADWAY OVER COMPLETED PORTION OF PROPOSED CULVERT AND SHIFT TRAFFIC.



**NOT TO SCALE**



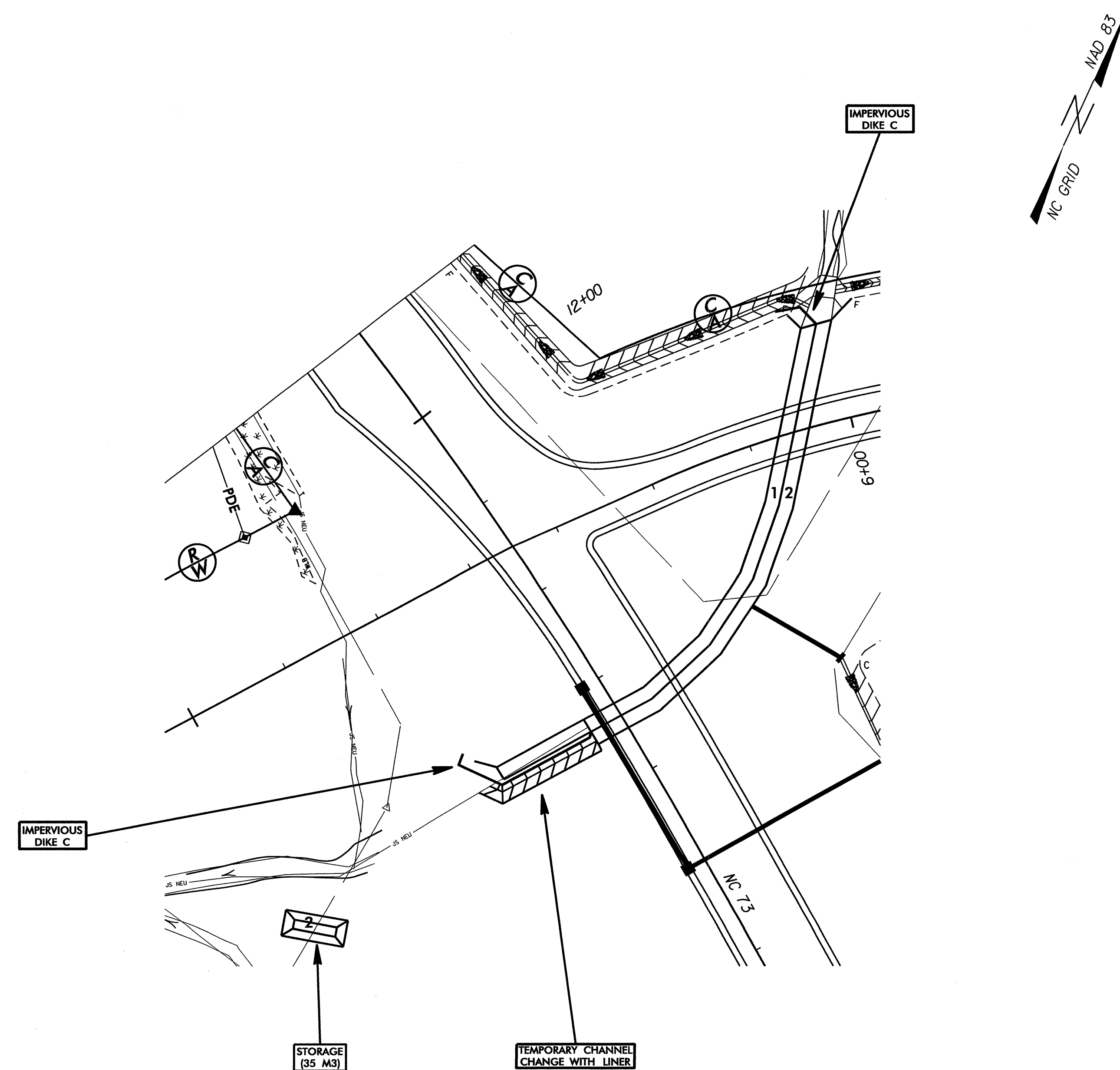


PROJECT REFERENCE NO.	SHEET NO.
R-2533CC	EC-14/CONST II
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

# CULVERT CONSTRUCTION SEQUENCE STA. 12 + 68.32 -Y1-REV (SHEET 2 OF 2)

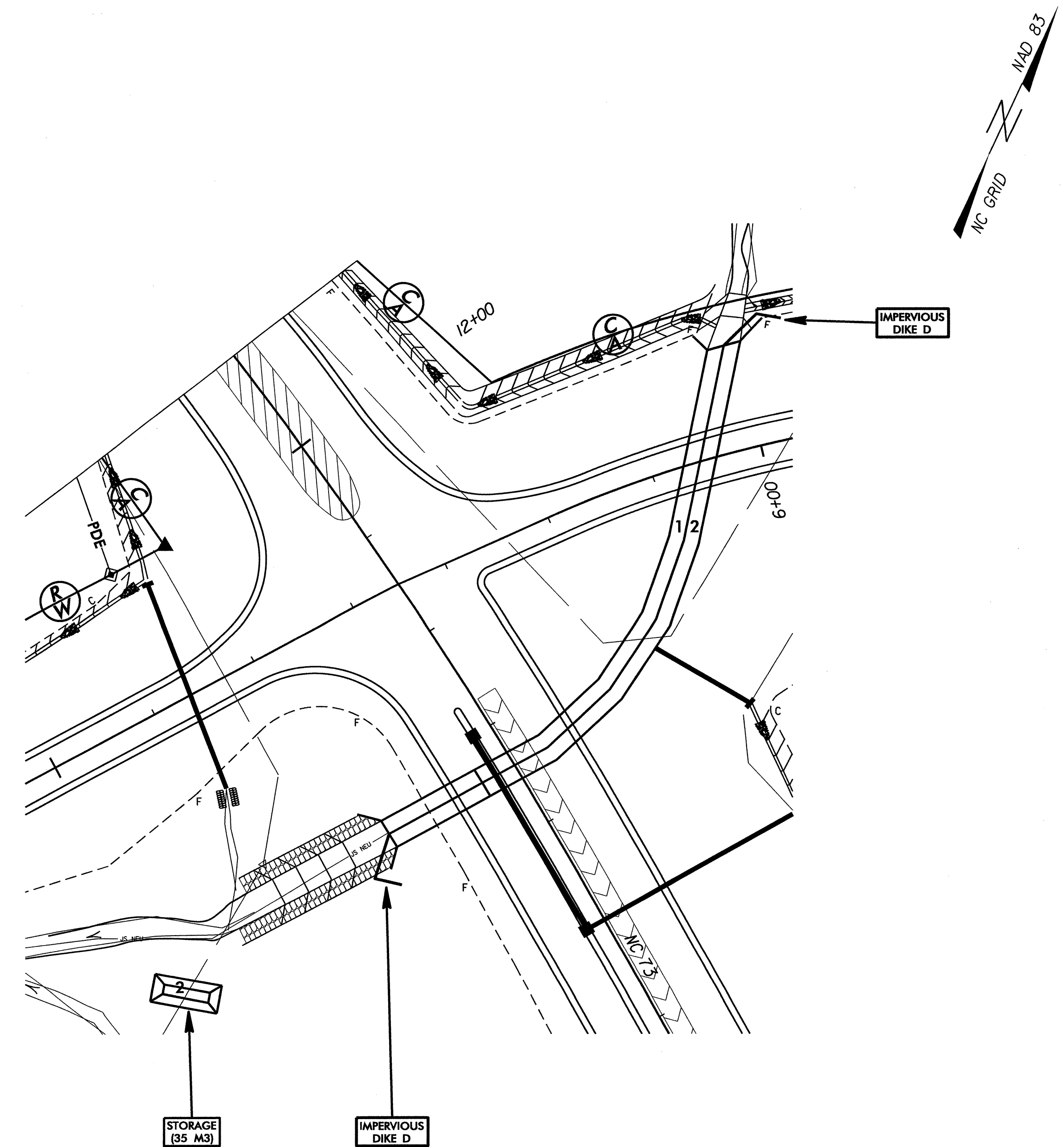
## PHASE III

10. CONSTRUCT STILLING BASIN 2 (35 M3).
11. REMOVE EXISTING CULVERT.
12. CONSTRUCT IMPERVIOUS DIKES C AND TEMPORARY CHANNEL CHANGE WITH LINER (1.2M BASE, 1M DEEP, 2:1 SIDE SLOPES), DIVERTING FLOW THROUGH BARREL 2 OF PROPOSED CULVERT.
13. CONSTRUCT REMAINDER OF BARREL 1 OF PROPOSED CULVERT.
14. REMOVE IMPERVIOUS DIKES C AND TEMPORARY CHANNEL CHANGE.



## PHASE IV

15. CONSTRUCT IMPERVIOUS DIKES D, DIVERTING FLOW THROUGH COMPLETED BARREL 1 OF PROPOSED CULVERT.
16. CONSTRUCT REMAINDER OF BARREL 2 OF PROPOSED CULVERT.
17. REMOVE IMPERVIOUS DIKES D.
18. CONSTRUCT OUTLET CHANNEL IMPROVEMENTS.
19. REMOVE STILLING BASIN 2, AND COMPLETE ROADWAY.



**NOT TO SCALE**



PROJECT REFERENCE NO. R-2533CC	SHEET NO. EC-15/CONST.11
R / W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

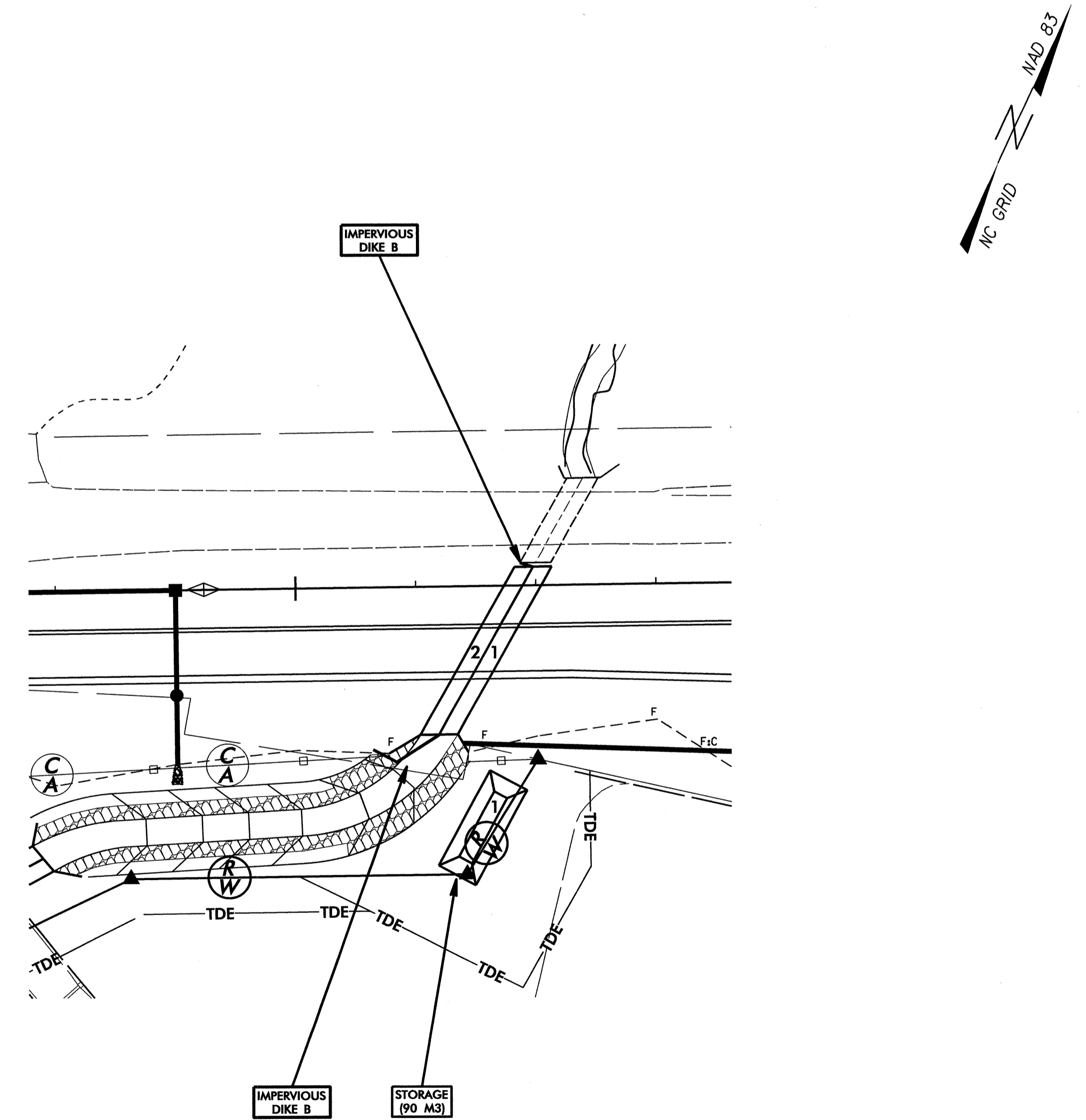
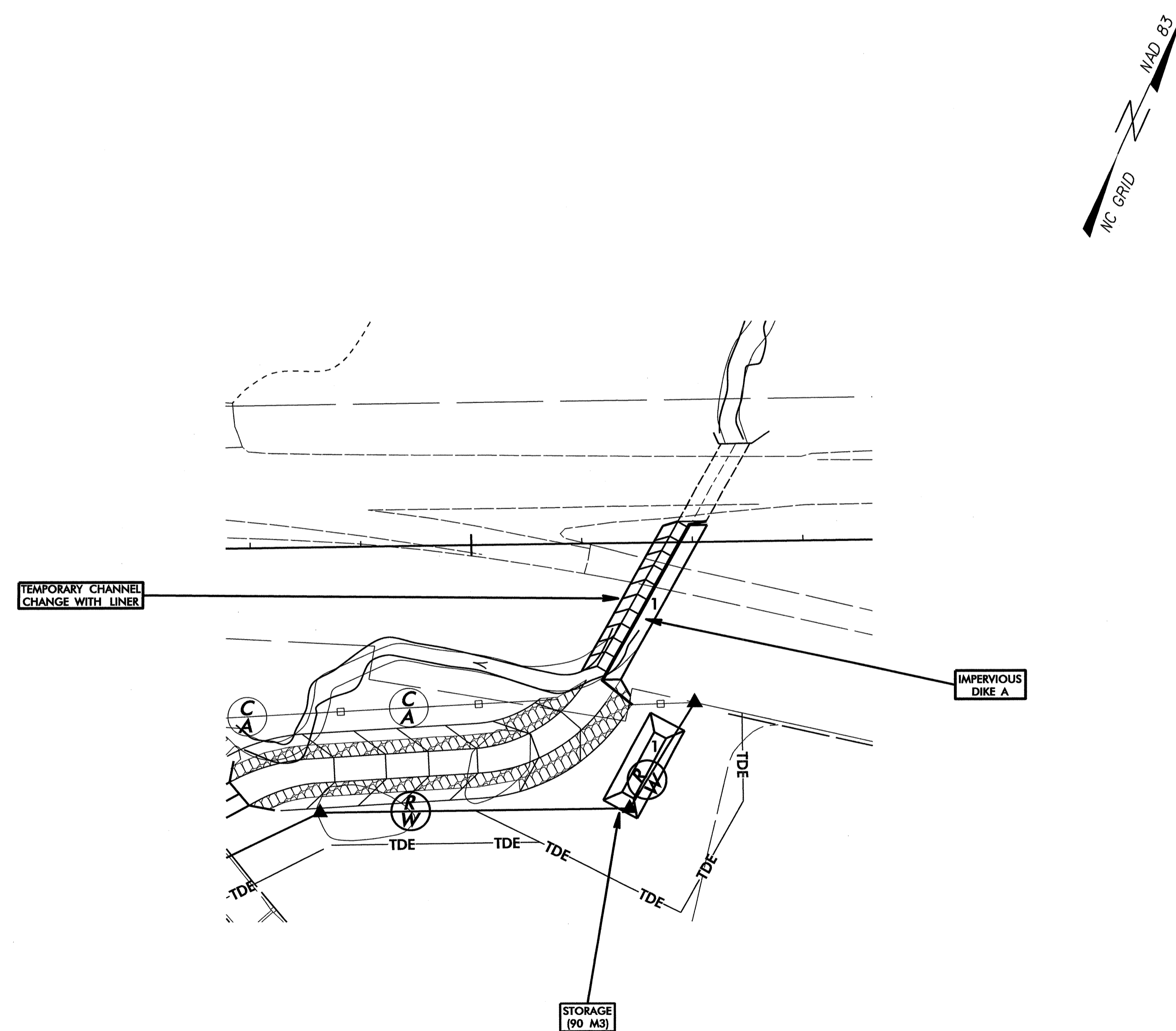
# CULVERT CONSTRUCTION SEQUENCE STA. 219 + 37.8 -L-REV (SHEET 1 OF 2)

## PHASE I

1. CONSTRUCT STILLING BASIN 1 (90 M3).
2. REMOVE APPROXIMATELY 22.5 METERS OF THE EXISTING CULVERT.
3. CONSTRUCT IMPERVIOUS DIKE A AND TEMPORARY CHANNEL CHANGE WITH LINER (2M BASE, 1M DEEP, 2:1 SIDE SLOPES), DIVERTING FLOW.
4. CONSTRUCT APPROXIMATELY 32 METERS OF BARREL 1 OF PROPOSED CULVERT.
5. CONSTRUCT OUTLET CHANNEL CHANGE.
6. REMOVE IMPERVIOUS DIKE A AND TEMPORARY CHANNEL CHANGE.

## PHASE II

7. CONSTRUCT IMPERVIOUS DIKES B, DIVERTING FLOW THROUGH BARREL 1 OF PROPOSED CULVERT.
8. CONSTRUCT BARREL 2 TO SAME LIMITS AS BARREL 1 OF PROPOSED CULVERT.
9. REMOVE IMPERVIOUS DIKES B AND STILLING BASIN 1.
10. CONSTRUCT ROADWAY OVER COMPLETED PORTION OF PROPOSED CULVERT AND SHIFT TRAFFIC.



**NOT TO SCALE**

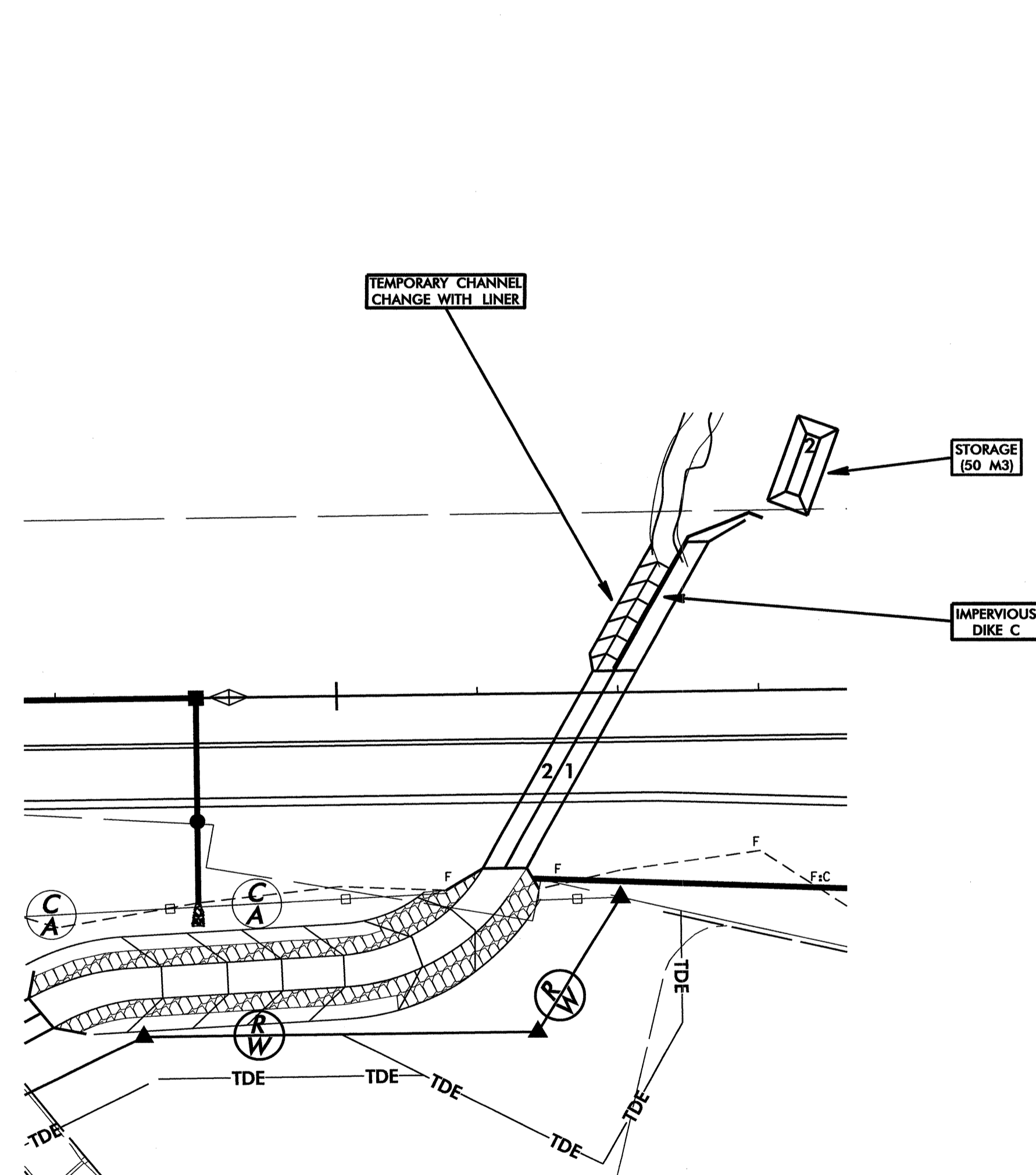


PROJECT REFERENCE NO. R-2533CC	SHEET NO. EC-16/CONST-11
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

# CULVERT CONSTRUCTION SEQUENCE STA. 219 + 37.8 -L-REV (SHEET 2 OF 2)

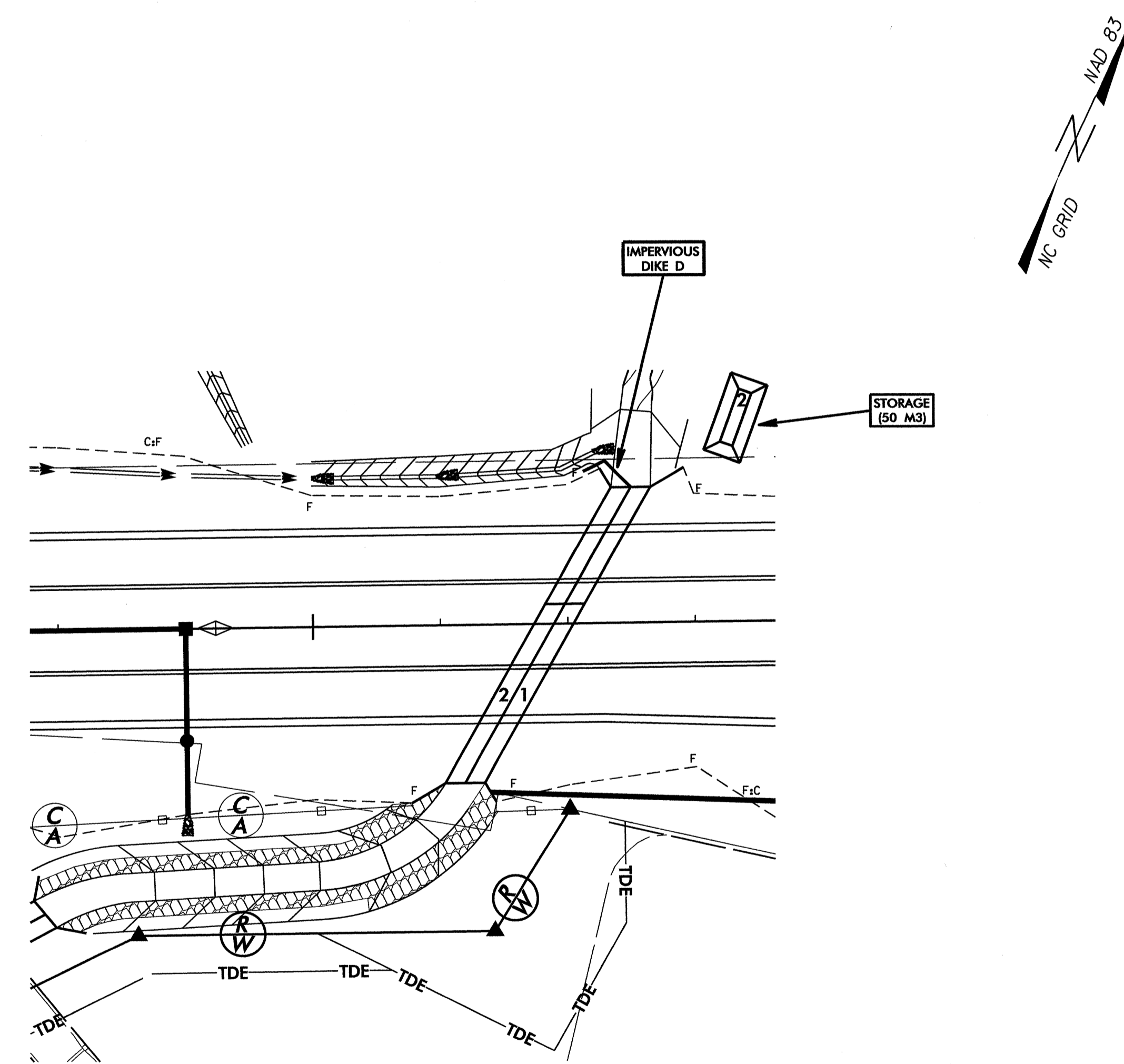
## PHASE III

11. CONSTRUCT STILLING BASIN 2 (50 M3).
12. REMOVE REMAINDER OF EXISTING CULVERT.
13. CONSTRUCT IMPERVIOUS DIKE C AND TEMPORARY CHANNEL CHANGE WITH LINER (2M BASE, 1M DEEP, 2:1 SIDE SLOPES), DIVERTING FLOW THROUGH BARREL 2 OF PROPOSED CULVERT.
14. CONSTRUCT REMAINDER OF BARREL 1 OF PROPOSED CULVERT.
15. REMOVE IMPERVIOUS DIKE C AND TEMPORARY CHANNEL CHANGE.



## PHASE IV

16. CONSTRUCT IMPERVIOUS DIKE D, DIVERTING FLOW THROUGH COMPLETED BARREL 1 OF PROPOSED CULVERT.
17. CONSTRUCT REMAINDER OF BARREL 2 OF PROPOSED CULVERT.
18. REMOVE IMPERVIOUS DIKES D.
19. CONSTRUCT INLET CHANNEL IMPROVEMENTS.
20. REMOVE STILLING BASIN 2, AND COMPLETE ROADWAY.



**NOT TO SCALE**



PROJECT REFERENCE NO. R-2533CC	SHEET NO. EC-17/CONST II
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

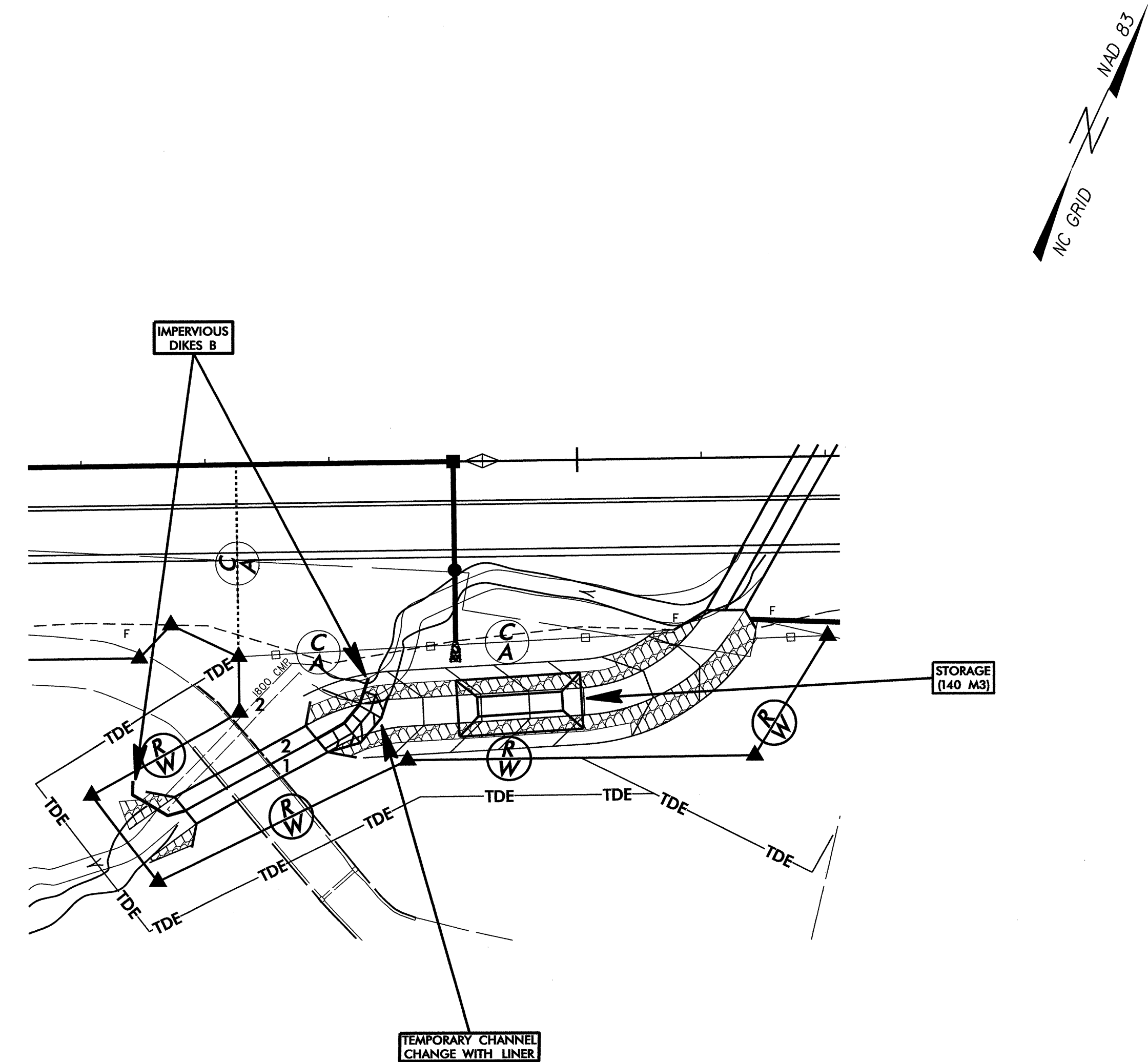
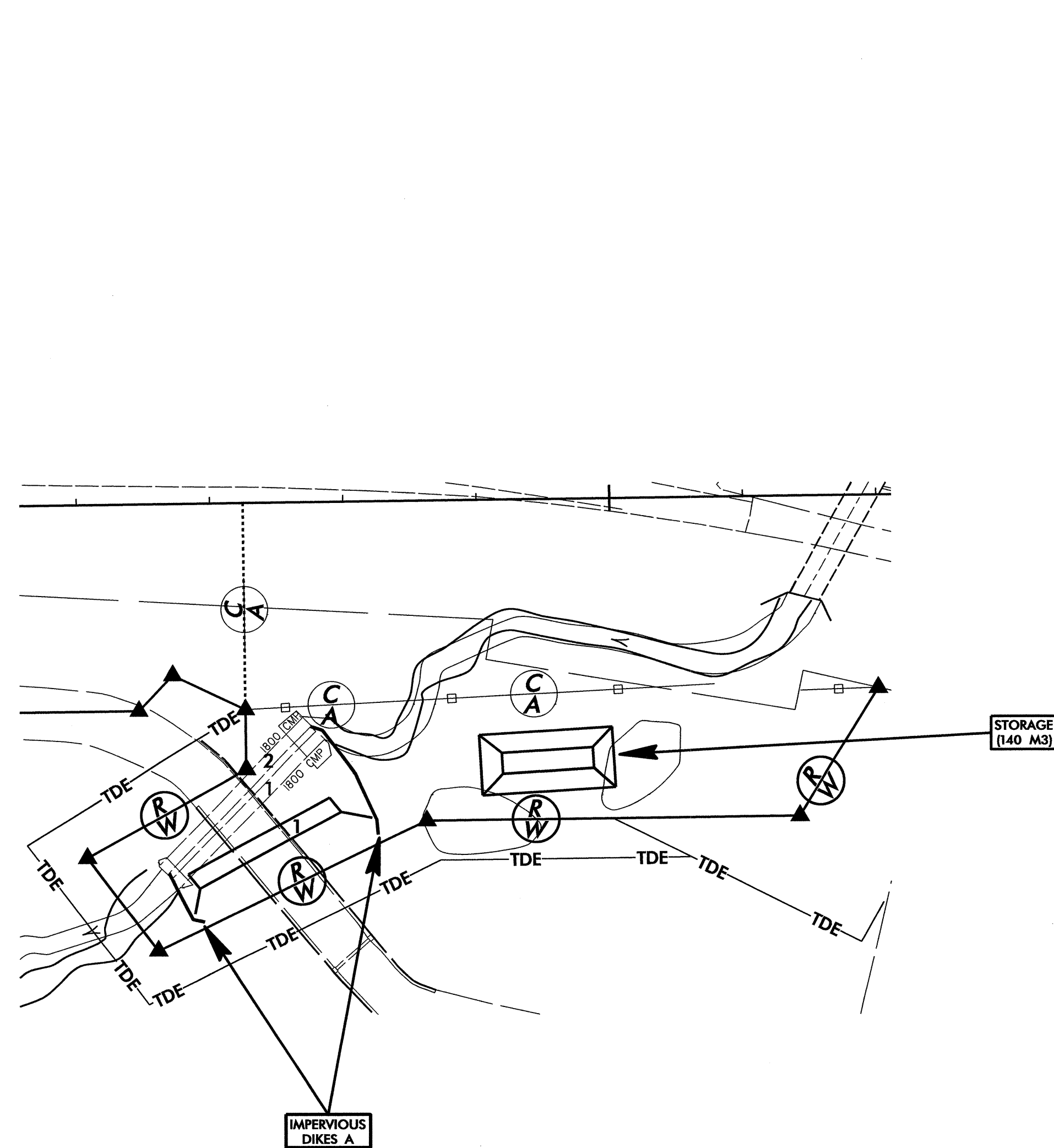
# CULVERT CONSTRUCTION SEQUENCE STA. 218 + 46.294 -L-REV (50.221M RT.)

## PHASE I

1. CONSTRUCT STILLING BASIN (140 M3).
2. CONSTRUCT IMPERVIOUS DIKES A, DIVERTING FLOW THROUGH EXISTING 1800MM CMP 2.
3. REMOVE EXISTING 1800MM CMP 1.
4. CONSTRUCT BARREL 1 OF PROPOSED CULVERT.
5. REMOVE IMPERVIOUS DIKES A.

## PHASE II

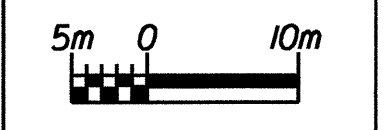
6. CONSTRUCT IMPERVIOUS DIKES B AND TEMPORARY CHANNEL CHANGE WITH LINER (2M BASE, 1M DEEP, 2:1 SIDE SLOPES), DIVERTING FLOW THROUGH BARREL 1 OF PROPOSED CULVERT.
7. REMOVE EXISTING 1800MM CMP 2.
8. CONSTRUCT BARREL 2 OF PROPOSED CULVERT, AND OUTLET CHANNEL IMPROVEMENTS.
9. REMOVE IMPERVIOUS DIKES B, TEMPORARY CHANNEL CHANGE, AND STILLING BASIN.
10. CONSTRUCT INLET CHANNEL CHANGE, AND COMPLETE ROADWAY.



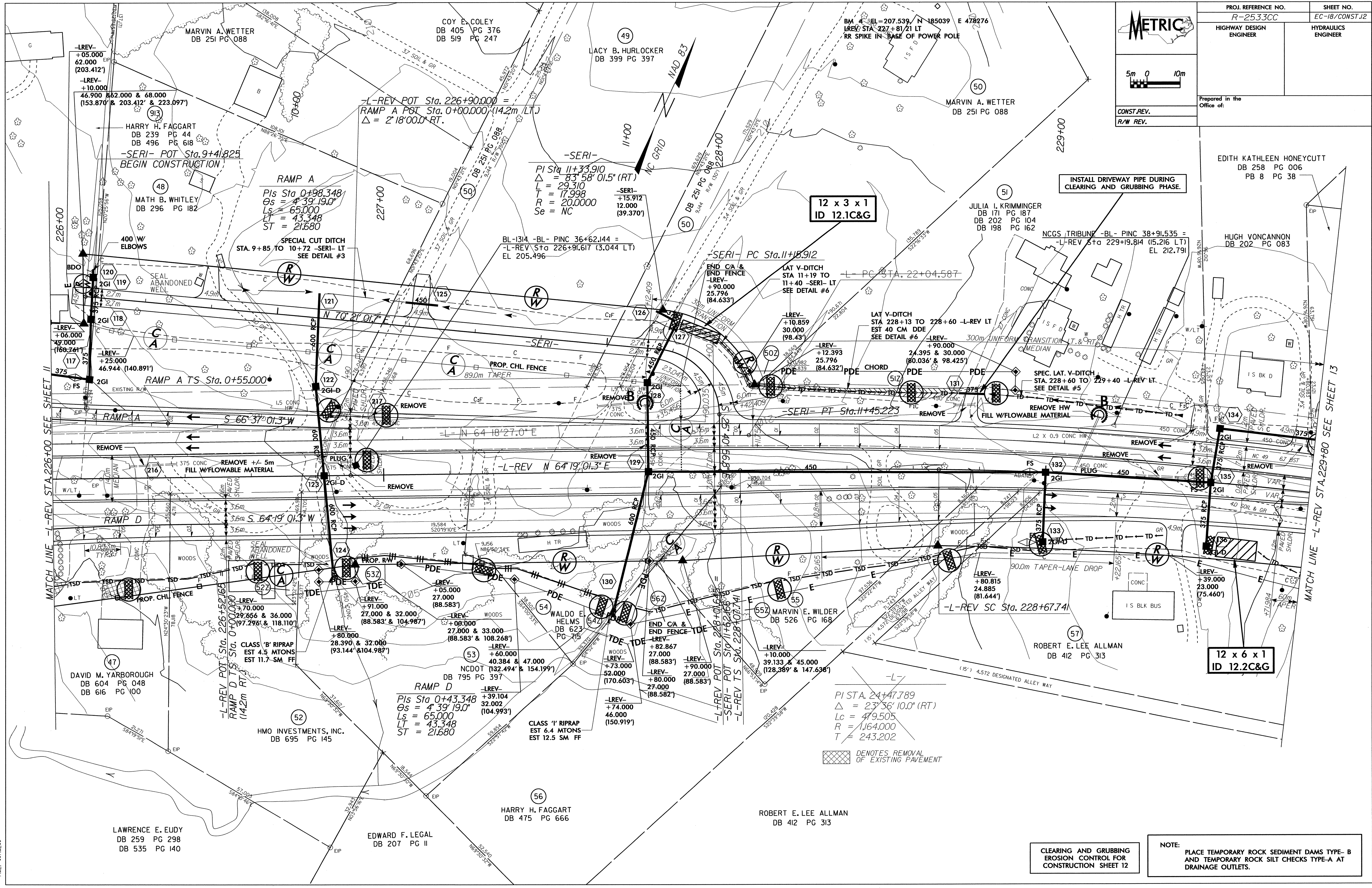
**NOT TO SCALE**



PROJ. REFERENCE NO. R-2533CC	SHEET NO. EC-18/CONST.12
HIGHWAY DESIGN ENGINEER	HYDRAULICS ENGINEER



Prepared in the Office of:  
R/W REV.



12 x 3 x 1  
ID 12.1C&G

12 x 6 x 1  
ID 12.2C&G

PI STA. 24+47.789  
 $\Delta = 23^\circ 36' 10.0''$  (RT)  
 $L_c = 479.505$   
 $R = 1164.000$   
 $T = 243.202$

DENOTES REMOVAL OF EXISTING PAVEMENT

CLEARING AND GRUBBING EROSION CONTROL FOR CONSTRUCTION SHEET 12

NOTE: PLACE TEMPORARY ROCK SEDIMENT DAMS TYPE-B AND TEMPORARY ROCK SILT CHECKS TYPE-A AT DRAINAGE OUTLETS.

USER: \$USER\$\$  
CON: \$CON\$\$

LAWRENCE E. EUDY  
DB 259 PG 298  
DB 535 PG 140

EDWARD F. LEGAL  
DB 207 PG II

HARRY H. FAGGART  
DB 475 PG 666

ROBERT E. LEE ALLMAN  
DB 412 PG 313

ROBERT E. LEE ALLMAN  
DB 412 PG 313

MARVIN E. WILDER  
DB 526 PG 168

WALDO E. HELMS  
DB 623 PG 715

NCDOT  
DB 795 PG 397

HMO INVESTMENTS, INC.  
DB 695 PG 145

DAVID M. YARBOROUGH  
DB 604 PG 048  
DB 616 PG 100

DAVID M. YARBOROUGH  
DB 604 PG 048  
DB 616 PG 100

RAMP A TS Sta. 0+55.000

RAMP A  
Pis Sta 0+98.348  
 $\Theta_s = 4^\circ 39' 19.0''$   
 $L_s = 65.000$   
 $LT = 43.348$   
 $ST = 21.680$

-L-REV POT Sta. 226+90.000 =  
RAMP A POT Sta. 0+00.000 (14.2m LT)  
 $\Delta = 2^\circ 18' 00.0''$  RT.

MARVIN A. WETTER  
DB 251 PG 088

COY E. COLEY  
DB 405 PG 376  
DB 519 PG 247

LACY B. HURLOCKER  
DB 399 PG 397

MARVIN A. WETTER  
DB 251 PG 088

EDITH KATHLEEN HONEYCUTT  
DB 258 PG 006  
PB 8 PG 38

HUGH VONCANNON  
DB 202 PG 083

JULIA I. KRIMMINGER  
DB 171 PG 187  
DB 202 PG 104  
DB 198 PG 162

NCGS TRIBUNE -BL- PINC 38+91.535 =  
-L-REV Sta 229+19.814 (15.216 LT)  
EL 212.791

SPEC. LAT. V-DITCH  
STA. 228+60 TO 229+40 -L-REV LT.  
SEE DETAIL #5

LAT V-DITCH  
STA 228+13 TO 228+60 -L-REV LT  
EST 40 CM DDE  
SEE DETAIL #6

LAT V-DITCH  
STA 11+19 TO 11+40 -SERI- LT  
SEE DETAIL #6

LAT V-DITCH  
STA 228+13 TO 228+60 -L-REV LT  
EST 40 CM DDE  
SEE DETAIL #6

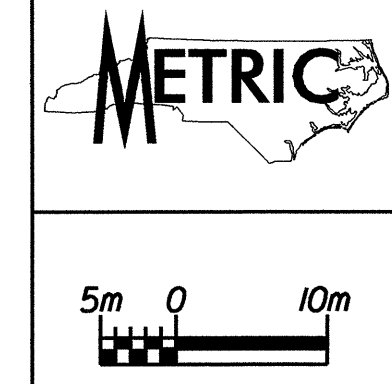
SPEC. LAT. V-DITCH  
STA. 228+60 TO 229+40 -L-REV LT.  
SEE DETAIL #5

-L-REV SC Sta. 228+67.741

ROBERT E. LEE ALLMAN  
DB 412 PG 313

CLEARING AND GRUBBING EROSION CONTROL FOR CONSTRUCTION SHEET 12

NOTE: PLACE TEMPORARY ROCK SEDIMENT DAMS TYPE-B AND TEMPORARY ROCK SILT CHECKS TYPE-A AT DRAINAGE OUTLETS.



PROJ. REFERENCE NO. R-2533CC	SHEET NO. EC-19/CONST13
HIGHWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
Prepared in the Office of:	
CONST. REV.	
R/W REV.	

CLEARING AND GRUBBING  
EROSION CONTROL FOR  
CONSTRUCTION SHEET 13

NOTE:  
PLACE TEMPORARY ROCK SEDIMENT DAMS TYPE-B  
AND TEMPORARY ROCK SILT CHECKS TYPE-A AT  
DRAINAGE OUTLETS.

10 x 4 x 1  
38 mm Skimmer  
with 12 mm  
Orifice Diameter  
1.5 m weir  
ID 13.1C&G

BEGIN CONSTRUCTION  
-Y2-REV POC Sta.10+52.500

END CONSTRUCTION  
-Y3- POC Sta.11+07.500

HUGH VONCANNON  
DB 202 PG 083

VANCE E. MILLER  
DB 409 PG 243  
PB 8 PG 14

GLORIA PETREA GRIFFIN  
DB 537 PG 012  
PB 8 PG 14

RETHER FRICK  
DB 157 PG 072  
PB 8 PG 14

JEFFERY LEE ALLMAN  
DB 862 PG 008  
PB 8 - PB 14

JENNIFER R. & HYDRICK STONE  
DB 2566 PG 320  
PB 8 PB 14

EDITH H. EAGLE  
DB 199 PG 152  
PB 8 PB 38

BARBARA K. McCLESTER  
DB 349 PG 98  
PB 8 PB 14

WILLIAM R. HONEYCUTT, JR.  
DB 258 PG 008  
PB 8 PG 38

JAMES D. HONEYCUTT  
DB 240 PG 335  
PB 8 - PG 38

EDITH KATHLEEN HONEYCUTT  
DB 258 PG 006  
PB 8 PG 38

CLASS 'B' RIPRAP  
EST 2.7 MTONS  
EST 8.4 SM FF

CLASS 'B' RIPRAP  
EST 2.7 MTONS  
EST 8.4 SM FF

SPEC. BACK OF CURB CUT-DITCH  
STA. 231+80 TO 232+20 -L-REV LT  
STA. 232+30 TO 232+50 -L-REV LT  
STA. 232+60 TO 233+04 -L-REV LT  
SEE DETAIL #20

-L-REV CS Sta. 232+81.288

-L-REV POC Sta. 232+36.562 =  
-Y3- POT Sta. 10+01.541  
 $\Delta = 66^{\circ} 54' 48.31''$

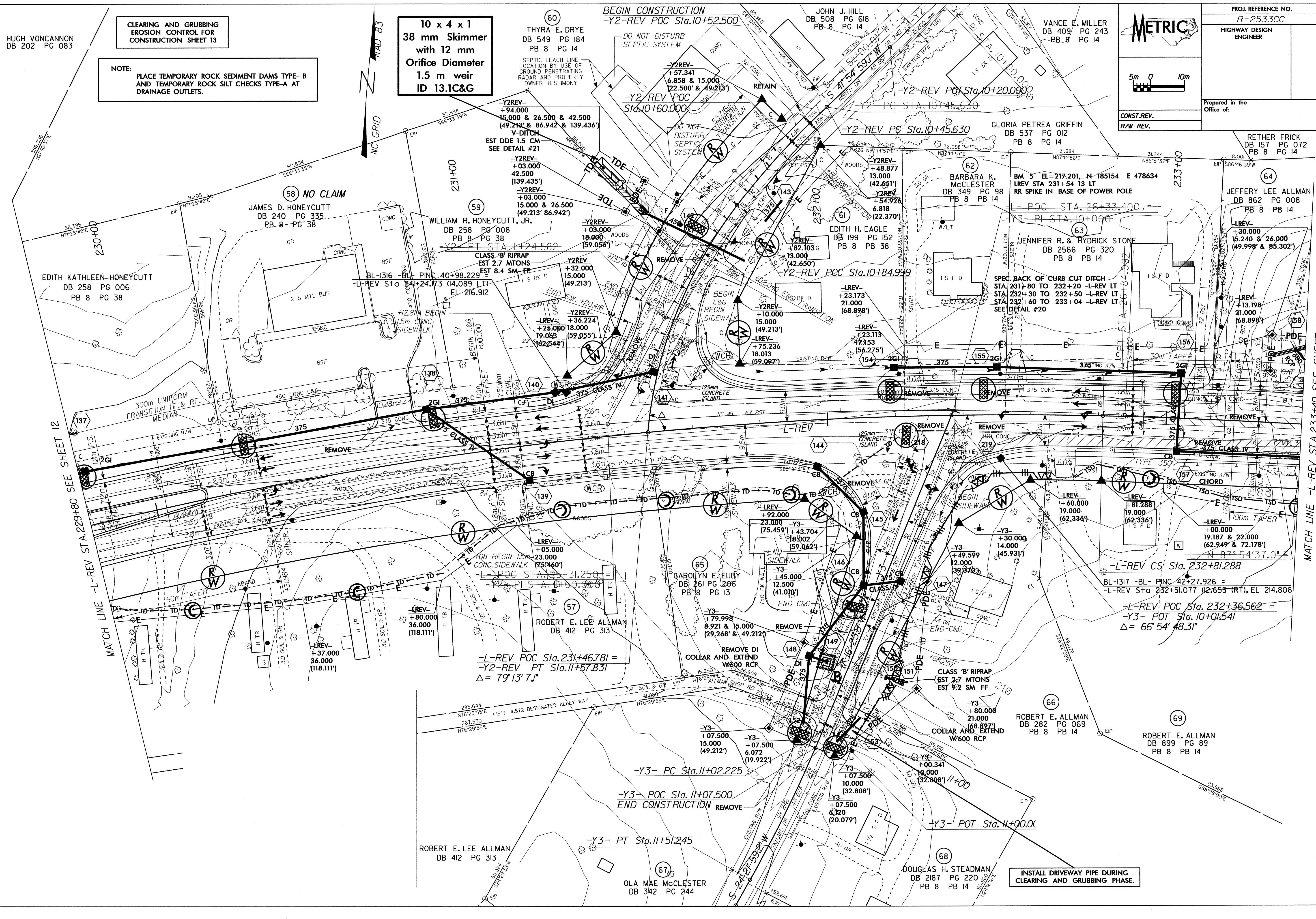
-L-REV POC Sta. 231+46.781 =  
-Y2-REV PT Sta. 11+57.831  
 $\Delta = 79^{\circ} 13' 7.1''$

INSTALL DRIVEWAY PIPE DURING  
CLEARING AND GRUBBING PHASE.

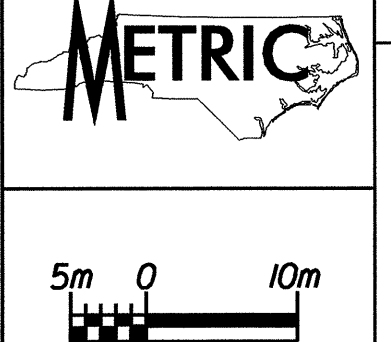
USER: #0456789  
DATE: #04/25/2018  
TIME: #10:15:00

MATCH LINE -L-REV STA. 233+40 SEE SHEET 14

MATCH LINE -L-REV STA. 229+80 SEE SHEET 12

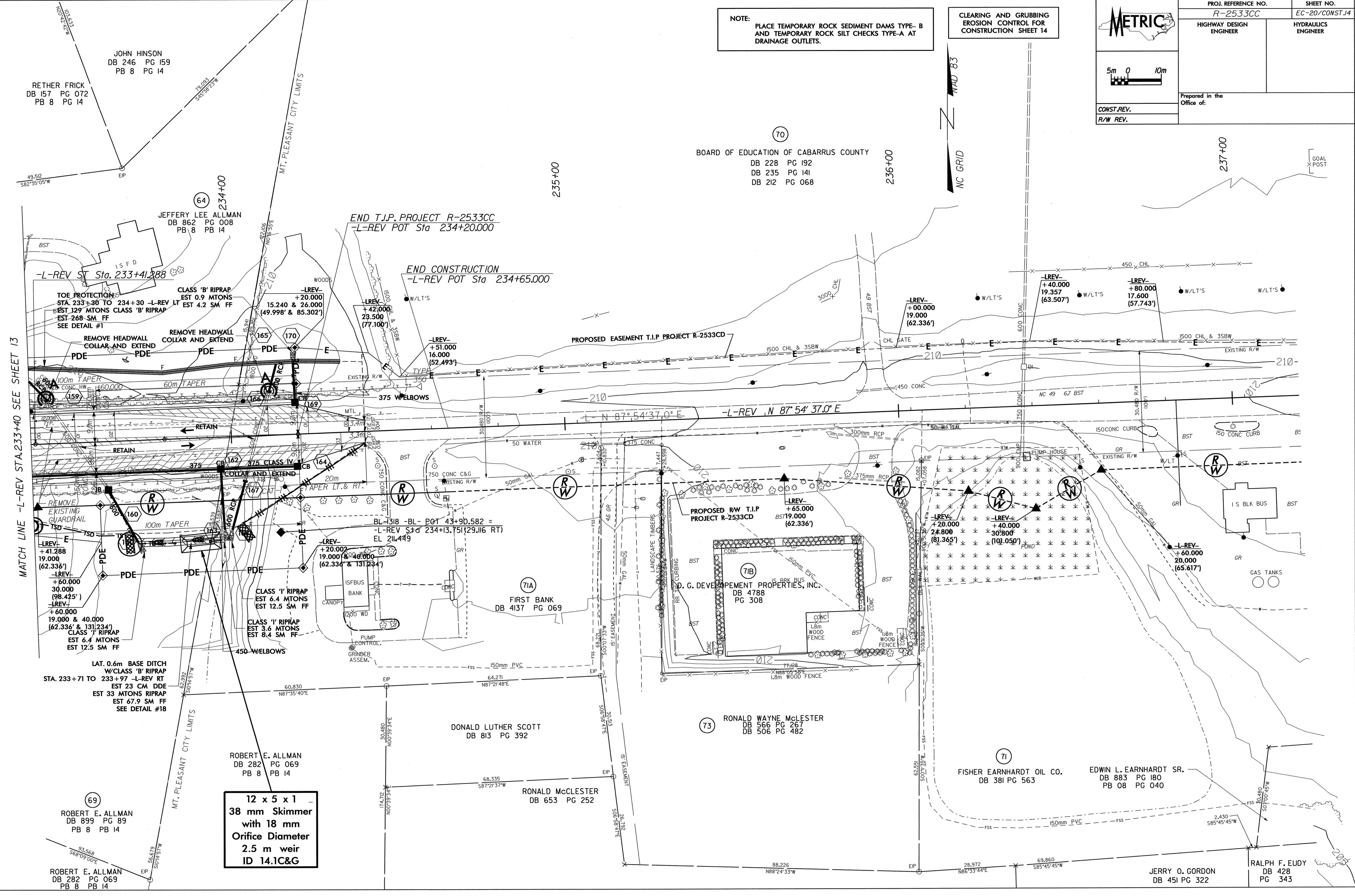
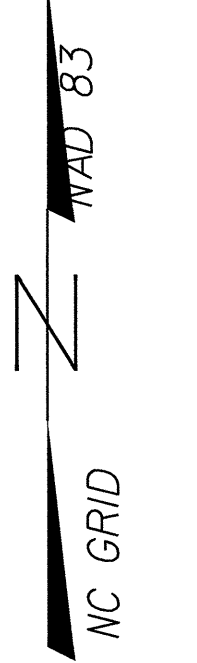


PROJ. REFERENCE NO. R-2533CC	SHEET NO. EC-20/CONST.14
HIGHWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
Prepared in the Office of:	
CONST. REV.	
R/W REV.	



NOTE:  
PLACE TEMPORARY ROCK SEDIMENT DAMS TYPE-B AND TEMPORARY ROCK SILT CHECKS TYPE-A AT DRAINAGE OUTLETS.

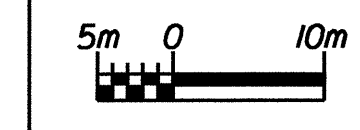
CLEARING AND GRUBBING EROSION CONTROL FOR CONSTRUCTION SHEET 14



MATCH LINE -L-REV STA. 233+40 SEE SHEET 13

**12 x 5 x 1  
38 mm Skimmer  
with 18 mm  
Orifice Diameter  
2.5 m weir  
ID 14.1C&G**

USER: #405658  
DATE: 08/11/11  
TIME: 11:05:11 AM  
DRAWN: #405658

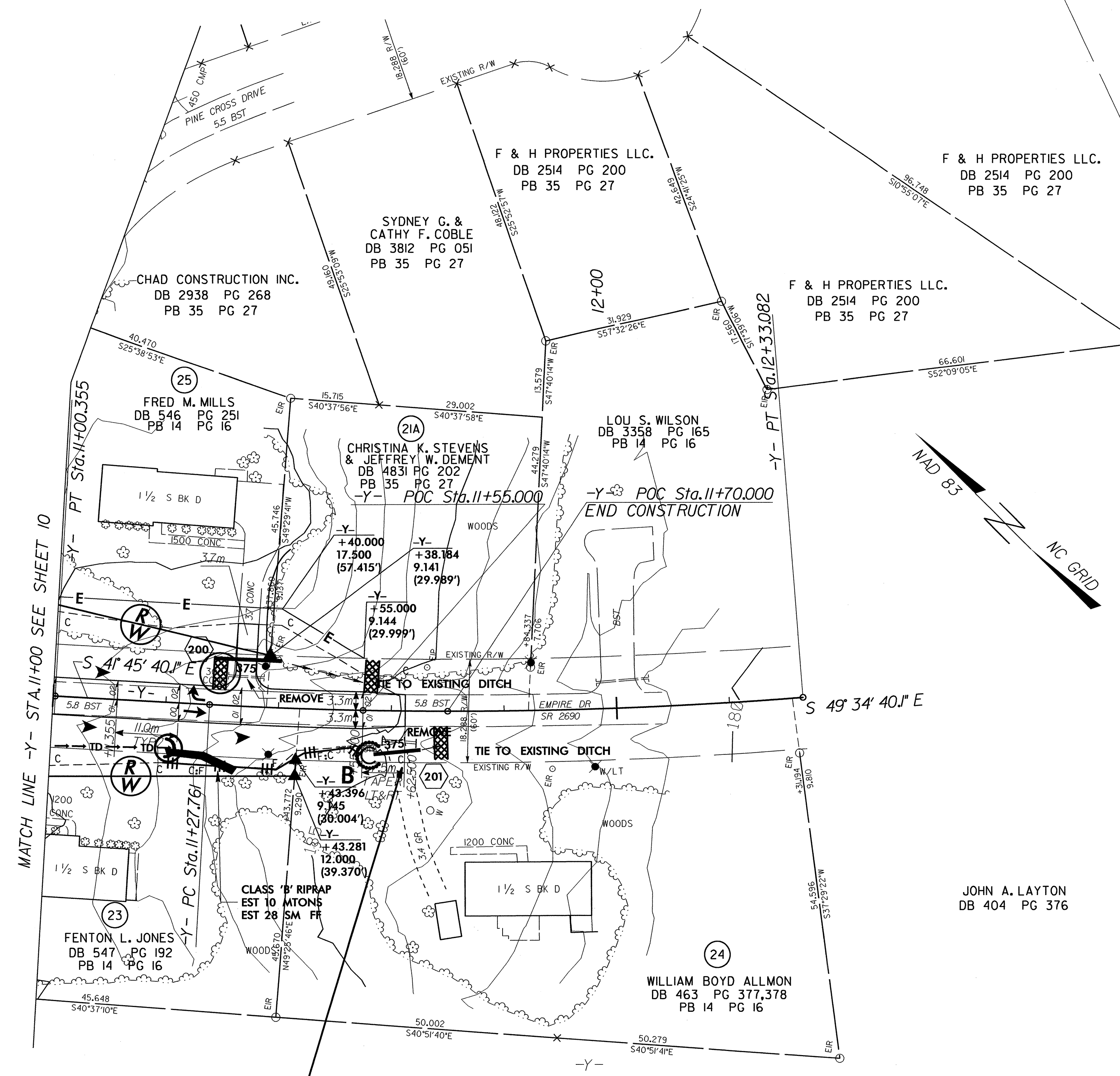


CONST. REV.  
R/W REV.

PROJ. REFERENCE NO. R-2533CC		SHEET NO. EC-21/CONST.15	
HIGHWAY DESIGN ENGINEER		HYDRAULICS ENGINEER	
Prepared in the Office of:			

NOTE:  
PLACE TEMPORARY ROCK SEDIMENT DAMS TYPE- B AND TEMPORARY ROCK SILT CHECKS TYPE-A AT DRAINAGE OUTLETS.

CLEARING AND GRUBBING EROSION CONTROL FOR CONSTRUCTION SHEET 15



INSTALL DRIVEWAY PIPE DURING CLEARING AND GRUBBING PHASE.

PI STA. 11+80.504  
 $\Delta = 07^{\circ} 49' 00.0''$  (LT)  
 $Lc = 105.321$   
 $R = 772.000$   
 $T = 52.743$

JOHN RAY NOBLES, JR.  
DB 521 PG 561

JOHN A. LAYTON  
DB 404 PG 376

MATCH LINE -Y- STA. 11+00 SEE SHEET 10

USER: \$USER\$\$  
 DATE: \$DATE\$\$  
 TIME: \$TIME\$\$



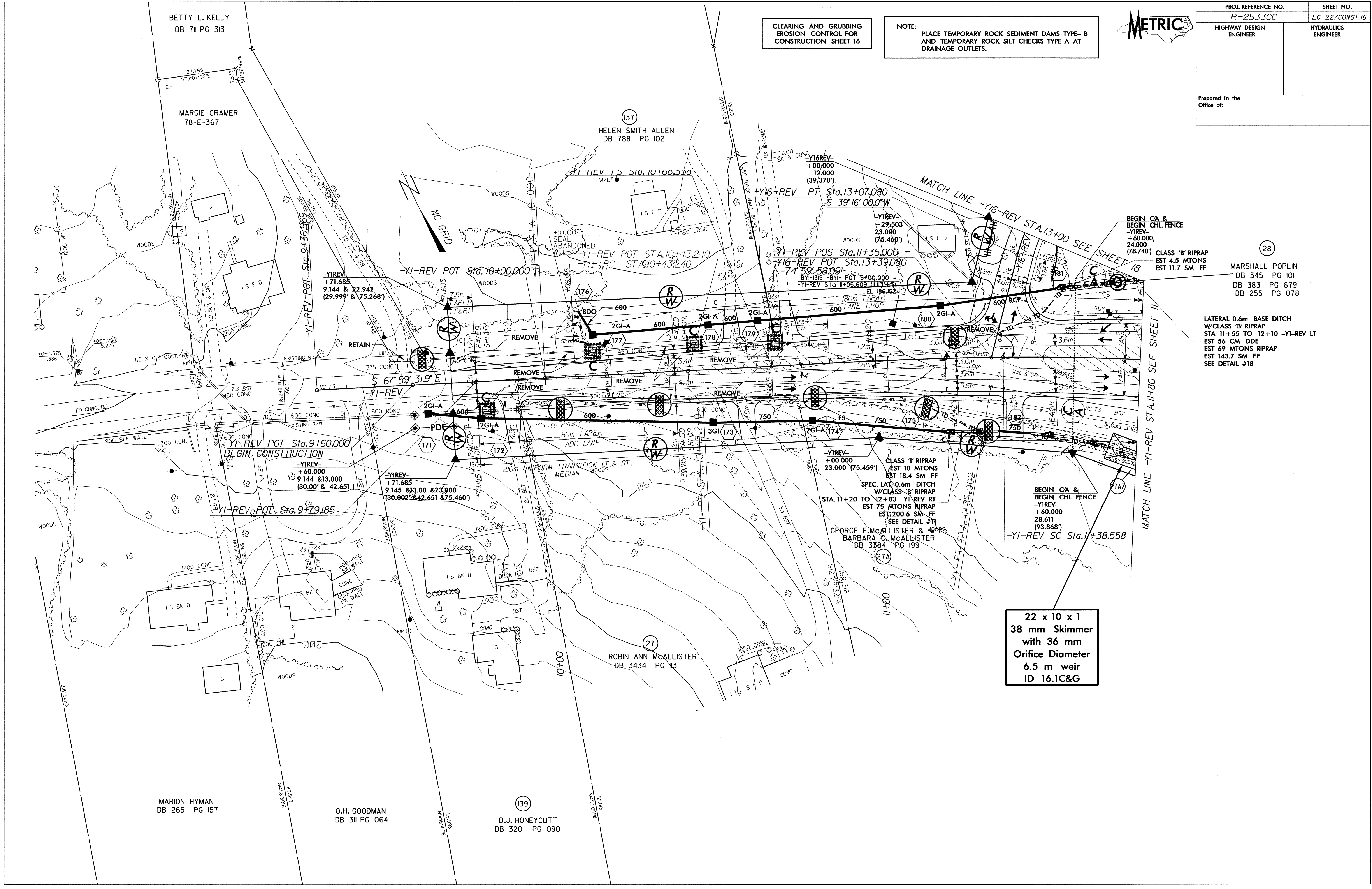
PROJ. REFERENCE NO. R-2533CC	SHEET NO. EC-22/CONST.16
HIGHWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

Prepared in the Office of:



CLEARING AND GRUBBING EROSION CONTROL FOR CONSTRUCTION SHEET 16

NOTE: PLACE TEMPORARY ROCK SEDIMENT DAMS TYPE- B AND TEMPORARY ROCK SILT CHECKS TYPE-A AT DRAINAGE OUTLETS.



(28) MARSHALL POPLIN  
DB 345 PG 101  
DB 383 PG 679  
DB 255 PG 078

LATERAL 0.6m BASE DITCH  
W/CLASS 'B' RIPRAP  
STA 11+55 TO 12+10 -YI-REV LT  
EST 56 CM DDE  
EST 69 MTONS RIPRAP  
EST 143.7 SM FF  
SEE DETAIL #18

22 x 10 x 1  
38 mm Skimmer  
with 36 mm  
Orifice Diameter  
6.5 m weir  
ID 16.1C&G

USER: #USER##  
DATE: #DATE##  
TIME: #TIME##



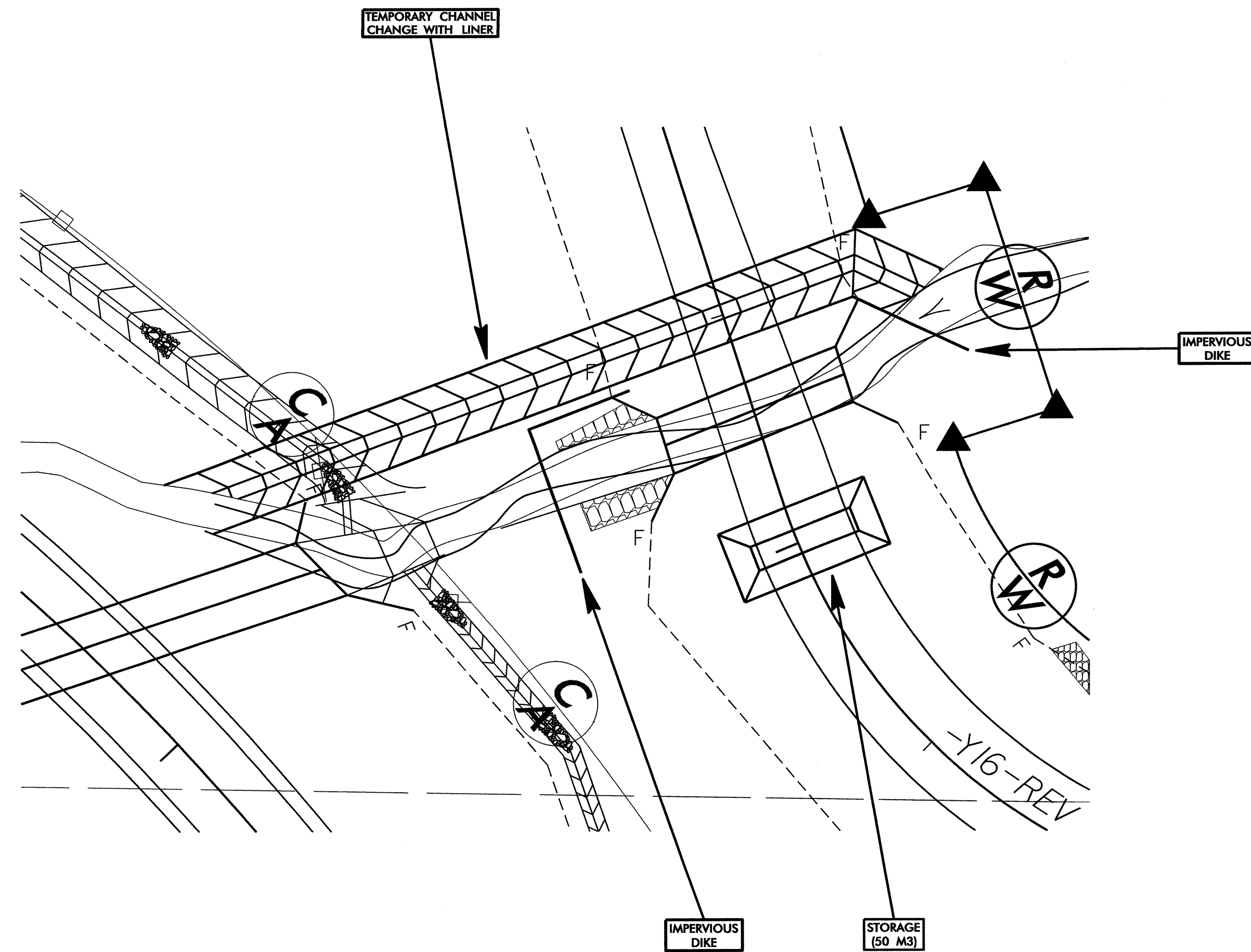




PROJECT REFERENCE NO.	SHEET NO.
R-2533CC	EC-25/CONST JB
R / W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

# CULVERT CONSTRUCTION SEQUENCE STA. 12 + 11.6 -Y16-REV

1. CONSTRUCT STILLING BASIN (50 M3).
2. CONSTRUCT IMPERVIOUS DIKES AND TEMPORARY CHANNEL CHANGE WITH LINER (1.2M BASE, 1M DEEP, 2:1 SIDE SLOPES), DIVERTING FLOW.
3. CONSTRUCT PROPOSED CULVERT.
4. CONSTRUCT ANY NECESSARY INLET/OUTLET CHANNEL IMPROVEMENTS.
5. REMOVE IMPERVIOUS DIKES AND TEMPORARY CHANNEL CHANGE.
6. REMOVE STILLING BASIN, AND COMPLETE ROADWAY.



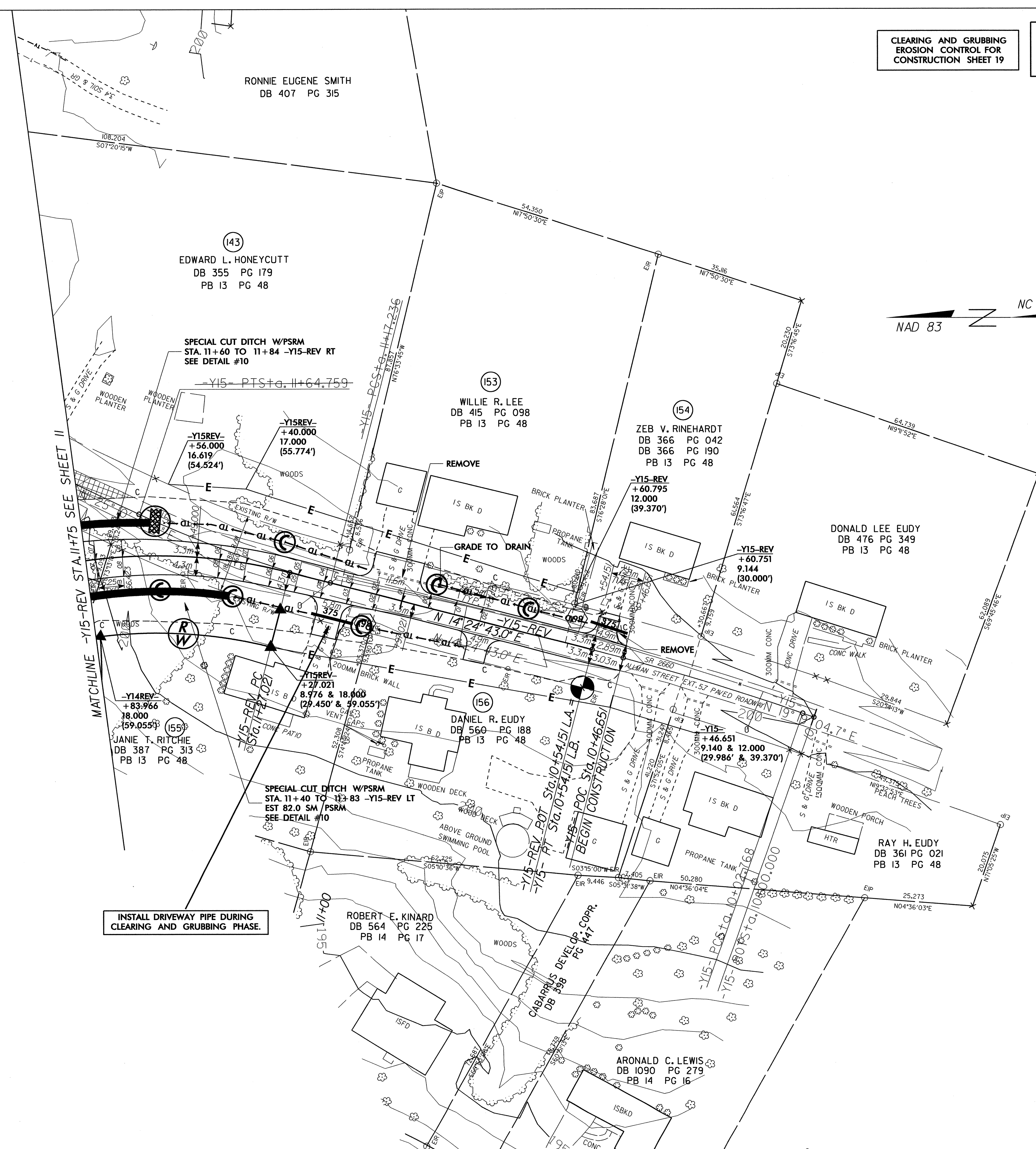
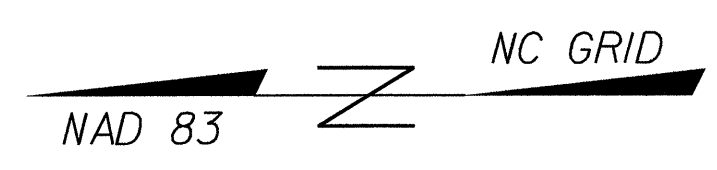
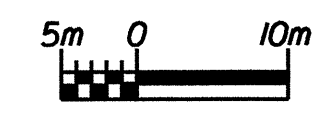
**NOT TO SCALE**



PROJ. REFERENCE NO. R-2533CC	SHEET NO. EC-26/CONST.19
HIGHWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
Prepared in the Office of:	
CONST. REV.	
R/W REV.	

CLEARING AND GRUBBING EROSION CONTROL FOR CONSTRUCTION SHEET 19


NOTE: PLACE TEMPORARY ROCK SEDIMENT DAMS TYPE-B AND TEMPORARY ROCK SILT CHECKS TYPE-A AT DRAINAGE OUTLETS.



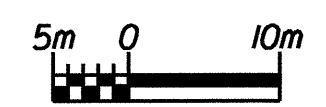
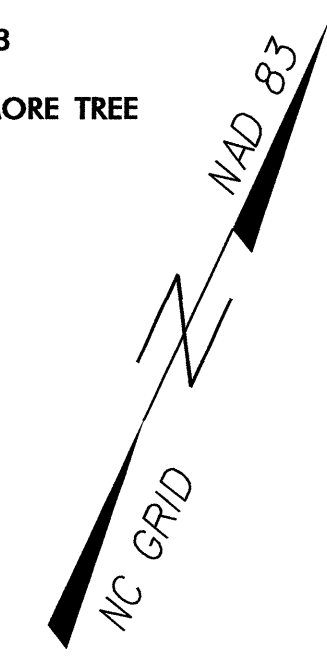
INSTALL DRIVEWAY PIPE DURING CLEARING AND GRUBBING PHASE.

▨ DENOTES REMOVAL OF EXISTING PAVEMENT

DATE: #DATE# TIME: #TIME# USER: #USER# LBN: #LBN#

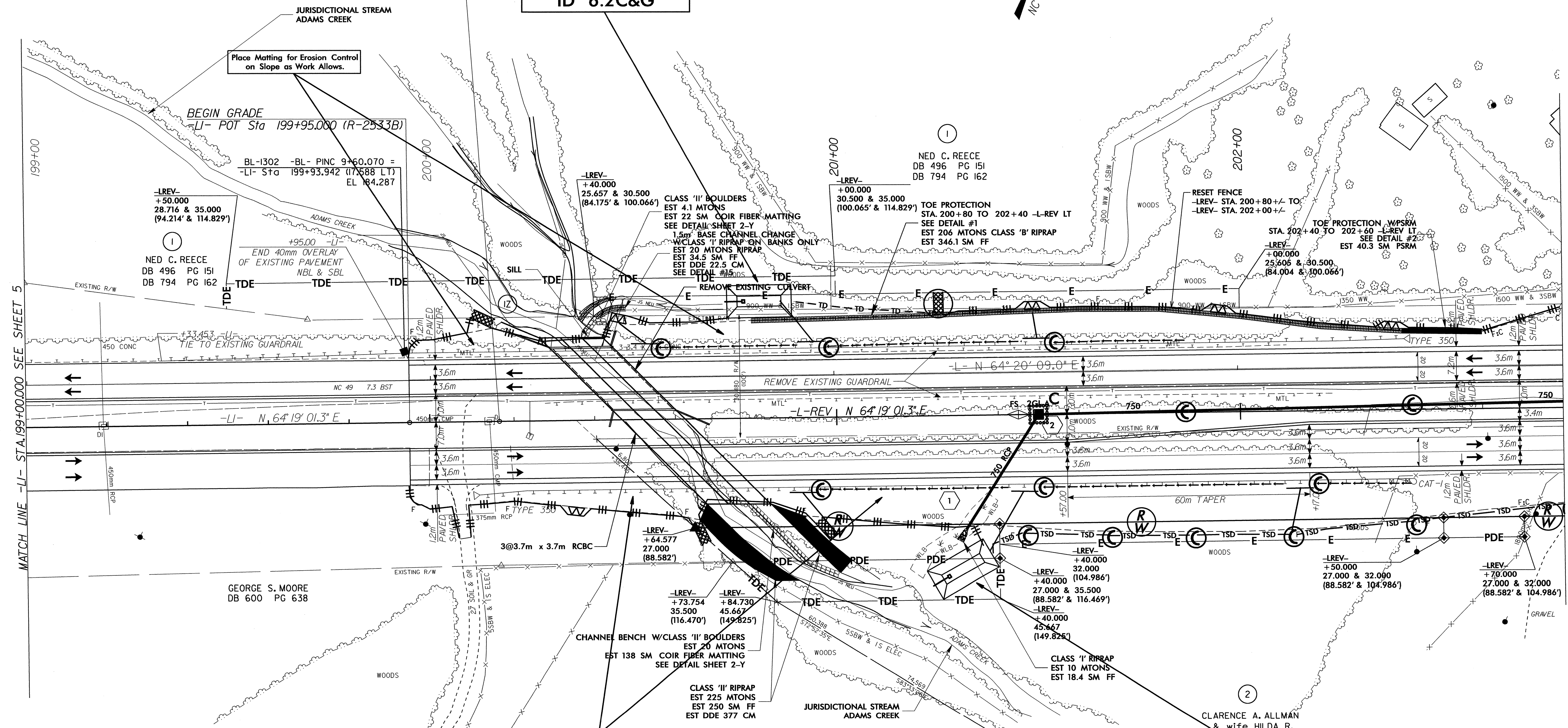
	PROJ. REFERENCE NO. R-2533CC	SHEET NO. EC-27/CONST.6
	HIGHWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
Prepared in the Office of:		
CONST. REV.		
R/W REV.		

BM 113 EL=182.406, N 183847 E 475753  
 LT STA 199+91.40 LT  
 RR SPIKE IN BASE OF 375MM TWIN SYCAMORE TREE



**16 x 8 x 1  
 38 mm Skimmer  
 with 30 mm  
 Orifice Diameter  
 5.5 m weir  
 ID 6.2C&G**

BEGIN T.I.P. PROJECT R-2533CC  
 -L-REV POT Sta 200+16.400 L.A.=  
 -LI- POT Sta 200+17.273 L.B.(R-2533B)



Place Matting for Erosion Control on Slope as Work Allows.

BEGIN GRADE  
 -LI- POT Sta 199+95.000 (R-2533B)

-LREV-  
 +50.000  
 28.716 & 35.000  
 (94.214' & 114.829')

BL-1302 -BL- PINC 9+60.070 =  
 -LI- Sta 199+93.942 (17.588 LT)  
 EL 184.287

NED C. REECE  
 DB 496 PG 151  
 DB 794 PG 162

END 40mm OVERLAY  
 OF EXISTING PAVEMENT  
 NBL & SBL

-LREV-  
 +40.000  
 25.657 & 30.500  
 (84.175' & 100.066')

CLASS 'II' BOULDERS  
 EST 4.1 MTONS  
 EST 22 SM COIR FIBER-MATTING  
 SEE DETAIL SHEET 2-Y  
 1.5m' BASE CHANNEL CHANGE  
 W/CLASS 'I' RIPRAP ON BANKS ONLY  
 EST 20 MTONS RIPRAP  
 EST 34.5 SM FF  
 EST DDE 22.5 CM  
 SEE DETAIL #1

-LREV-  
 +00.000  
 30.500 & 35.000  
 (100.065' & 114.829')

TOE PROTECTION  
 STA. 200+80 TO 202+40 -L-REV LT  
 SEE DETAIL #1  
 EST 206 MTONS CLASS 'B' RIPRAP  
 EST 346.1 SM FF

RESET FENCE  
 -LREV- STA. 200+80 +/- TO  
 -LREV- STA. 202+00 +/-

TOE PROTECTION W/PSRM  
 STA. 202+40 TO 202+60 -L-REV LT  
 SEE DETAIL #2  
 EST 40.3 SM PSRM  
 -LREV-  
 +00.000  
 25.605 & 30.500  
 (84.004' & 100.066')

-LI- N 64°19'01.3" E

-L-REV N 64°19'01.3" E

-L- N 64°20'09.0" E

GEORGE S. MOORE  
 DB 600 PG 638

-LREV-  
 +64.577  
 27.000  
 (88.582')

-LREV-  
 +73.754  
 35.500  
 (116.470')

-LREV-  
 +84.730  
 45.667  
 (149.825')

-LREV-  
 +40.000  
 32.000  
 (88.582' & 104.986')

-LREV-  
 +40.000  
 27.000 & 35.500  
 (88.582' & 116.469')

-LREV-  
 +40.000  
 45.667  
 (149.825')

-LREV-  
 +50.000  
 27.000 & 32.000  
 (88.582' & 104.986')

-LREV-  
 +70.000  
 27.000 & 32.000  
 (88.582' & 104.986')


Place Matting for Erosion Control on Slope as Work Allows.

**17 x 8 x 1  
 38 mm Skimmer  
 with 30 mm  
 Orifice Diameter  
 5.5 m weir  
 ID 6.1C&G**

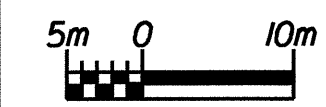
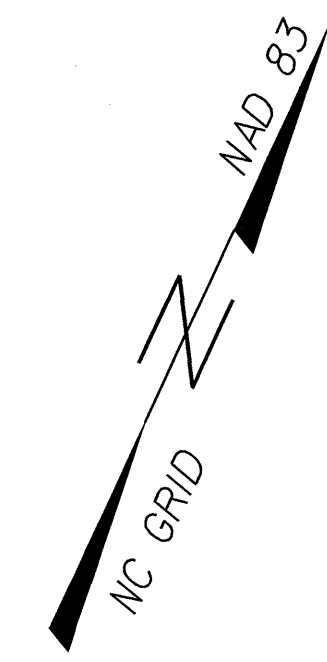
MATCH LINE -LI- STA.199+00.000 SEE SHEET 5

MATCH LINE -L-REV STA.202+80 SEE SHEET 7

DATE: \*\*DATE\*\*  
 TIME: \*\*TIME\*\*

	PROJ. REFERENCE NO. R-2533CC	SHEET NO. EC-28/CONST.7
	HIGHWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
Prepared in the Office of:		
CONST. REV.		
R/W REV.		

BM 114 EL=196.032, N 184029 E 476341  
 LREV STA 205+99 51 RT  
 RR SPIKE IN BASE OF 300MM SWEET GUM TREE



**8 x 4 x 1  
ID 7.1C&G**

**8 x 4 x 1  
ID 7.1F**

**8 x 4 x 1  
38 mm Skimmer  
with 9 mm  
Orifice Diameter  
1.5 m weir  
ID 7.1C&G**

Place Matting for Erosion Control on Slope as Work Allows.

1  
NED C. REECE  
DB 496 PG 151  
DB 794 PG 162

5  
VIRGINIA McALLISTER SMITH  
DB 719 PG 084

4  
ROBERT J. FOLEY  
& JUDITH M. DUDLEY  
DB 1687 PG 139

6  
CAROLYN M. MOOSE  
DB 254 PG 255

7  
THEODORE F. HUNEYCUTT  
DB 2559 PG 135


BL-1303 -BL- PINC I2+58.406 =  
-L-REV Sta 202+90.845 (0.674 RT)  
EL 190.534

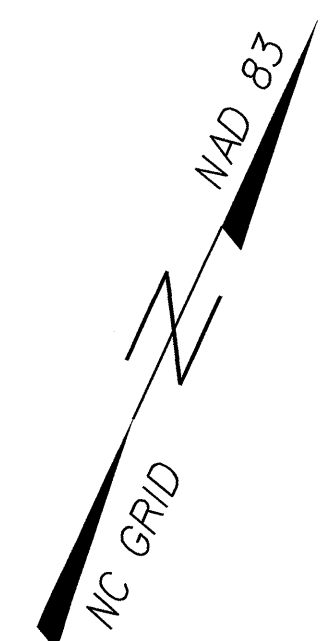
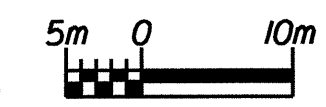
BL-1304 -BL- PINC I5+35.932 =  
-L-REV Sta 205+68.335 (3.770 LT)  
EL 198.122

MATCH LINE -L-REV STA.202+80 SEE SHEET 6

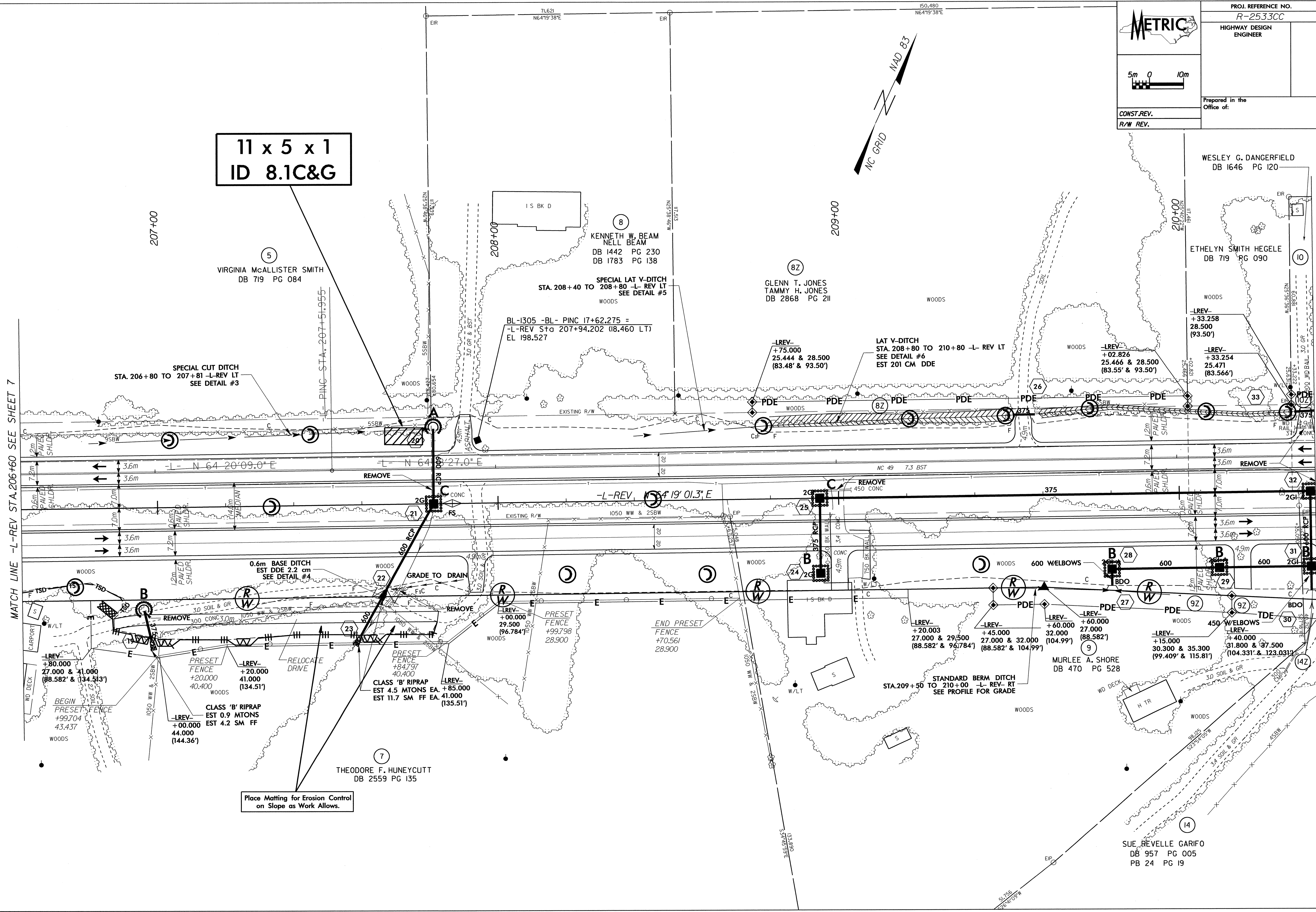
MATCH LINE -L-REV STA.206+60 SEE SHEET 8

USER: #USER##  
DATE: ##DATE##  
TIME: ##TIME##

	PROJ. REFERENCE NO. R-2533CC	SHEET NO. EC-29/CONST.8
	HIGHWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
Prepared in the Office of:		
CONST. REV.		
R/W REV.		



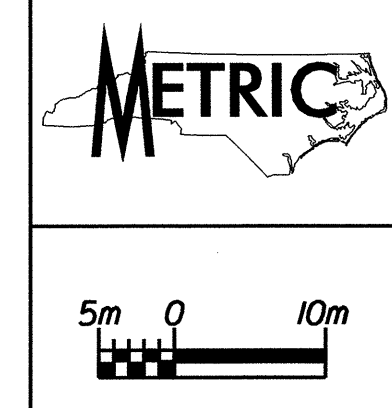
**11 x 5 x 1  
ID 8.1C&G**



Place Matting for Erosion Control on Slope as Work Allows.

USER: #456789  
DATE: 8/20/2024  
TIME: 10:30 AM





PROJ. REFERENCE NO. R-2533CC		SHEET NO. EC-30/CONST.9	
HIGHWAY DESIGN ENGINEER		HYDRAULICS ENGINEER	
Prepared in the Office of:			
CONST. REV.		R/W REV.	

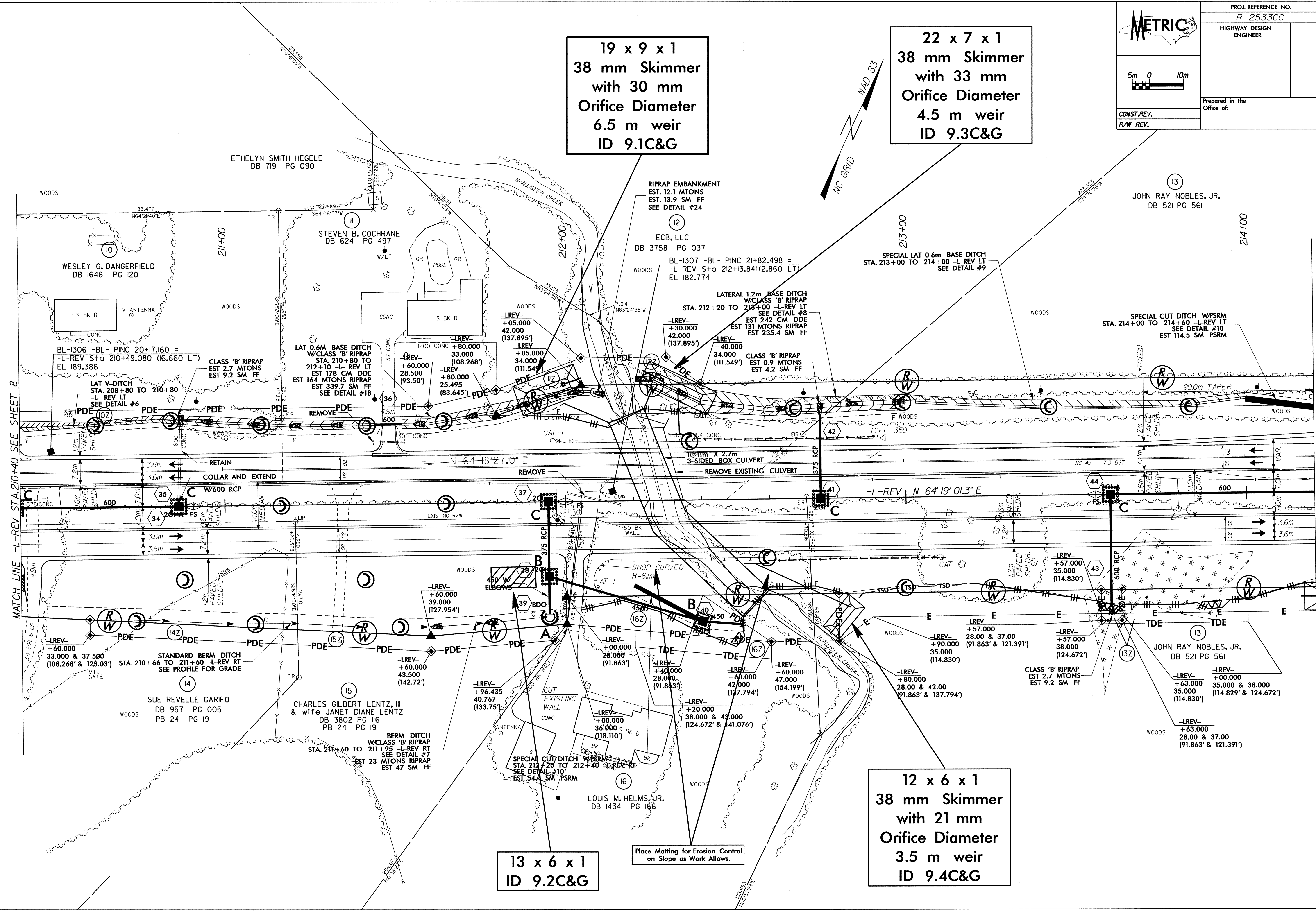
**19 x 9 x 1  
38 mm Skimmer  
with 30 mm  
Orifice Diameter  
6.5 m weir  
ID 9.1C&G**

**22 x 7 x 1  
38 mm Skimmer  
with 33 mm  
Orifice Diameter  
4.5 m weir  
ID 9.3C&G**

**12 x 6 x 1  
38 mm Skimmer  
with 21 mm  
Orifice Diameter  
3.5 m weir  
ID 9.4C&G**

**13 x 6 x 1  
ID 9.2C&G**

Place Matting for Erosion Control on Slope as Work Allows.

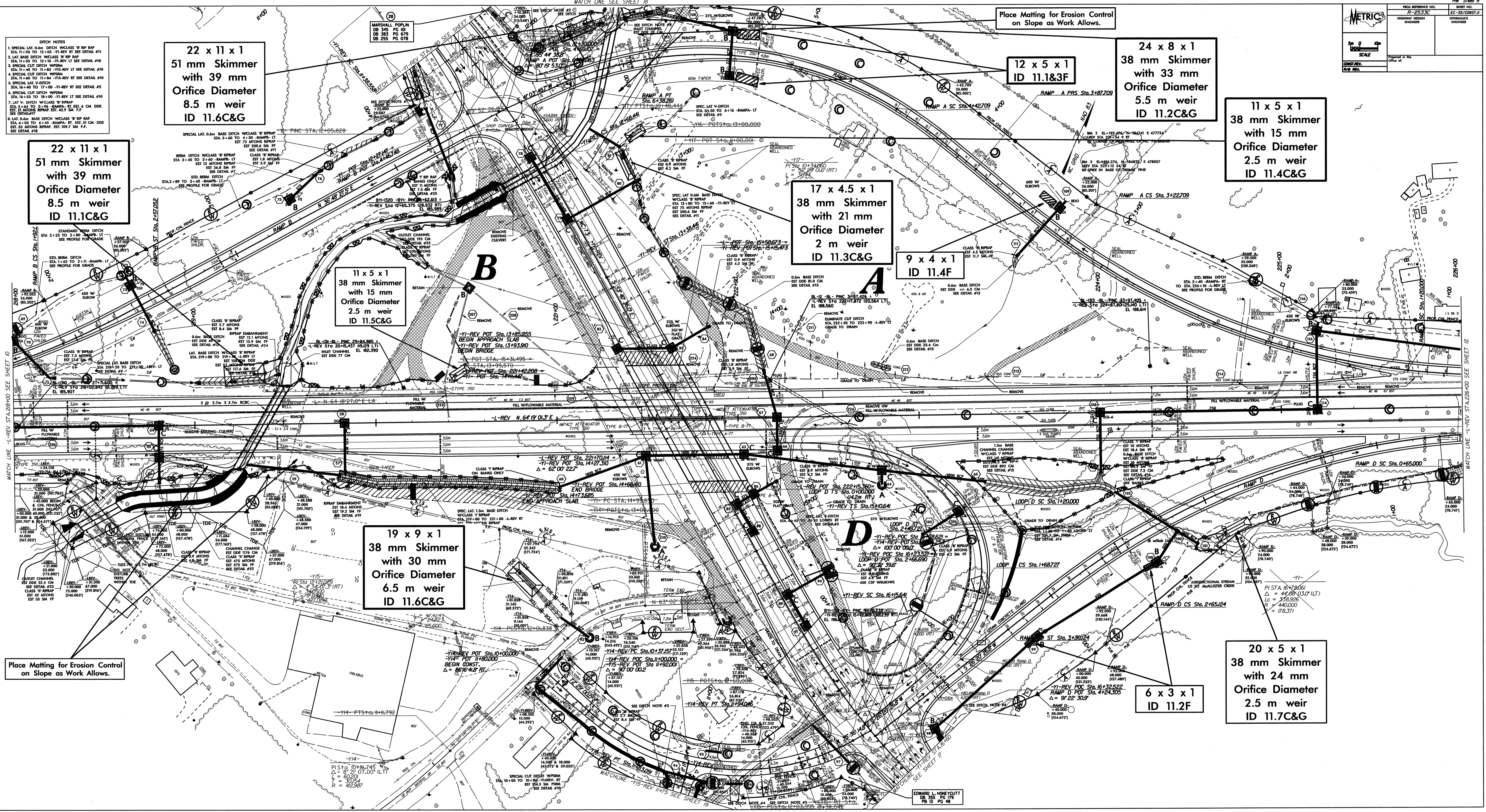


MATCH LINE -L-REV STA.210+40 SEE SHEET 8

MATCH LINE -L-REV STA.214+20 SEE SHEET 10

USER: #DATE#  
TIME: #TIME#





Place Matting for Erosion Control on Slope as Work Allows.

22 x 11 x 1  
51 mm Skimmer  
with 39 mm  
Orifice Diameter  
8.5 m weir  
ID 11.6C&G

22 x 11 x 1  
51 mm Skimmer  
with 39 mm  
Orifice Diameter  
8.5 m weir  
ID 11.1C&G

11 x 5 x 1  
38 mm Skimmer  
with 15 mm  
Orifice Diameter  
2.5 m weir  
ID 11.5C&G

17 x 4.5 x 1  
38 mm Skimmer  
with 21 mm  
Orifice Diameter  
2 m weir  
ID 11.3C&G

12 x 5 x 1  
ID 11.1&3F

24 x 8 x 1  
38 mm Skimmer  
with 33 mm  
Orifice Diameter  
5.5 m weir  
ID 11.2C&G

11 x 5 x 1  
38 mm Skimmer  
with 15 mm  
Orifice Diameter  
2.5 m weir  
ID 11.4C&G

9 x 4 x 1  
ID 11.4F

19 x 9 x 1  
38 mm Skimmer  
with 30 mm  
Orifice Diameter  
6.5 m weir  
ID 11.6C&G

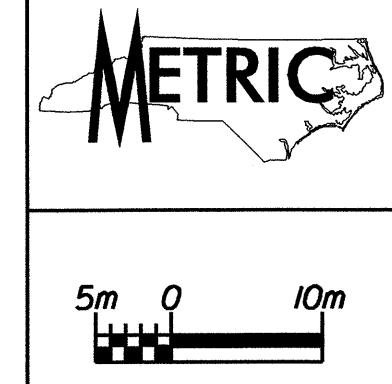
Place Matting for Erosion Control on Slope as Work Allows.

20 x 5 x 1  
38 mm Skimmer  
with 24 mm  
Orifice Diameter  
2.5 m weir  
ID 11.7C&G

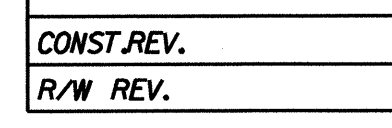
6 x 3 x 1  
ID 11.2F

EDWARD L. HONEYCUTT  
18 36 00 079  
13 PG 48





PROJ. REFERENCE NO. R-2533CC	SHEET NO. EC-34/CONST 13
HIGHWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
Prepared in the Office of:	
CONST. REV.	
R/W REV.	



HUGH VONCANNON  
DB 202 PG 083

10 x 4 x 1  
38 mm Skimmer  
with 12 mm  
Orifice Diameter  
1.5 m weir  
ID 13.1C&G

BEGIN CONSTRUCTION  
-Y2-REV POC Sta.10+52.500

JOHN J. HILL  
DB 508 PG 618  
PB 8 PG 14

VANCE E. MILLER  
DB 409 PG 243  
PB 8 PG 14

GLORIA PETREA GRIFFIN  
DB 537 PG 012  
PB 8 PG 14

RETHER FRICK  
DB 157 PG 072  
PB 8 PG 14

58 NO CLAIM  
JAMES D. HONEYCUTT  
DB 240 PG 335  
PB 8 PG 38

59 WILLIAM R. HONEYCUTT, JR.  
DB 258 PG 008  
PB 8 PG 38

EDITH KATHLEEN HONEYCUTT  
DB 258 PG 006  
PB 8 PG 38

CLASS 'B' RIPRAP  
EST 2.7 MTONS  
EST 8.4 SM FF

60 THYRA E. DRYE  
DB 549 PG 184  
PB 8 PG 14

EDITH H. EAGLE  
DB 199 PG 152  
PB 8 PG 38

62 BARBARA K. McCLESTER  
DB 349 PG 98  
PB 8 PG 14

JENNIFER R. & HYDRICK STONE  
DB 2566 PG 320  
PB 8 PG 14

64 JEFFERY LEE ALLMAN  
DB 862 PG 008  
PB 8 PG 14

MATCH LINE -L-REV STA. 229+80 SEE SHEET 12

MATCH LINE -L-REV STA. 233+40 SEE SHEET 14

USER: #USER#  
DATE: #DATE#  
TIME: #TIME#

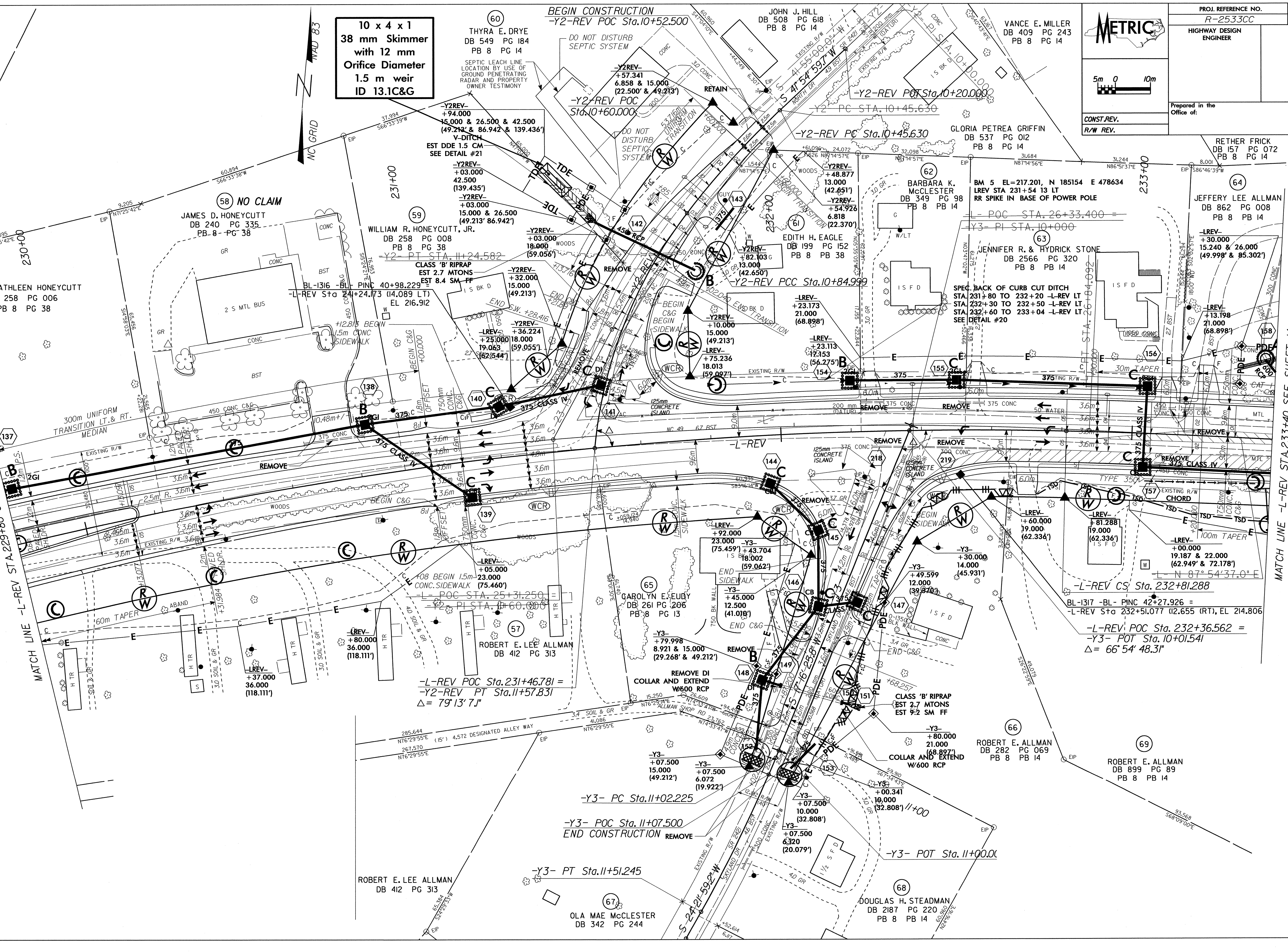
ROBERT E. LEE ALLMAN  
DB 412 PG 313


67 OLA MAE McCLESTER  
DB 342 PG 244

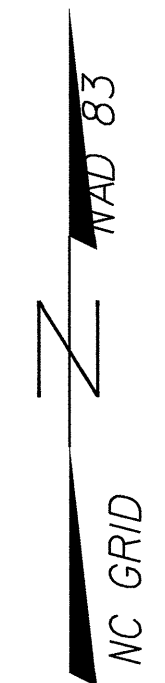
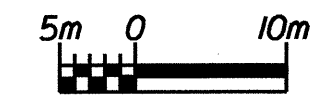
68 DOUGLAS H. STEADMAN  
DB 2187 PG 220  
PB 8 PG 14

66 ROBERT E. ALLMAN  
DB 282 PG 069  
PB 8 PG 14

69 ROBERT E. ALLMAN  
DB 899 PG 89  
PB 8 PG 14



	PROJ. REFERENCE NO. R-2533CC	SHEET NO. EC-35/CONST.14
	HIGHWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
Prepared in the Office of:		
CONST.REV.		
R/W REV.		

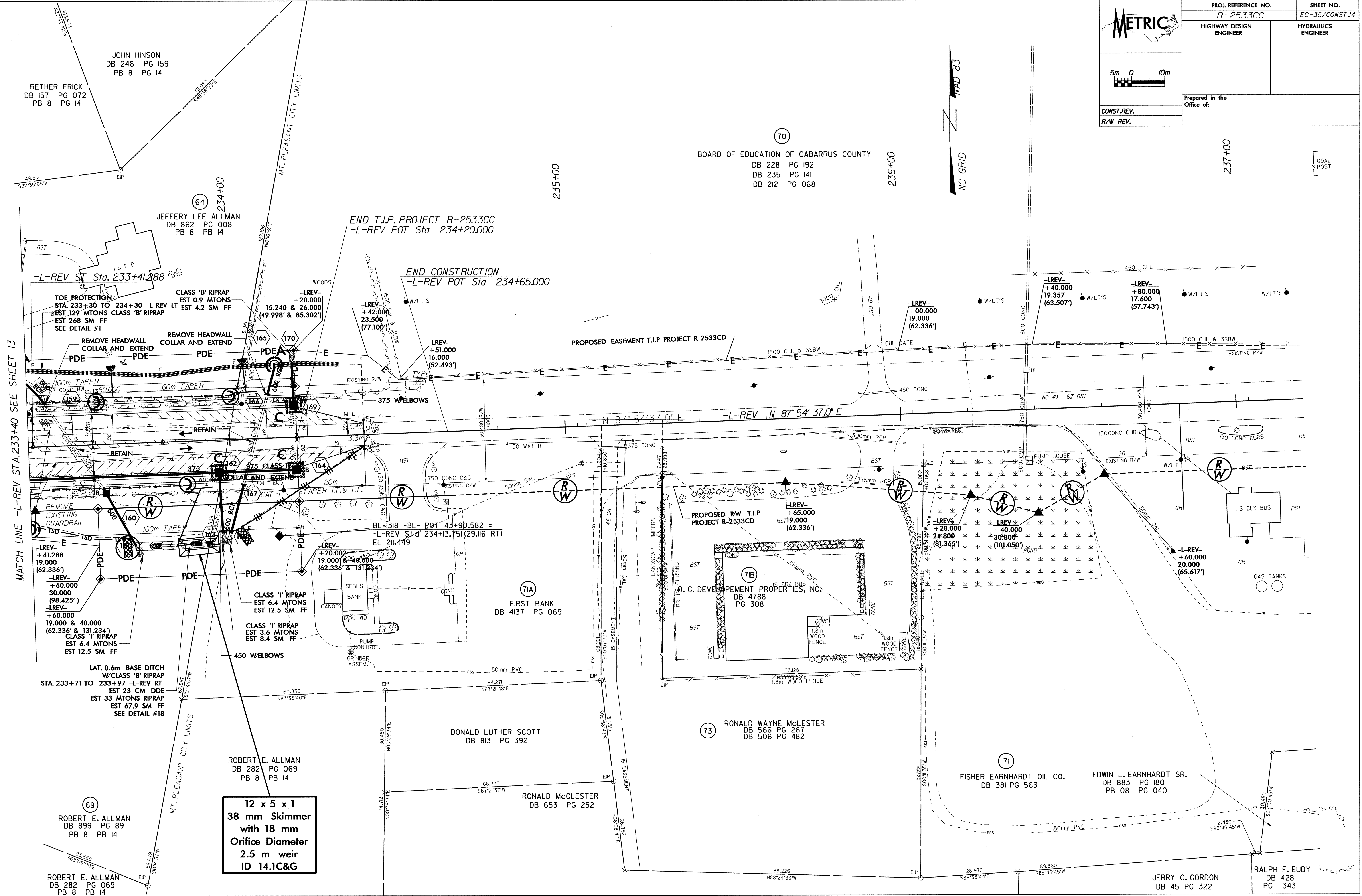


70  
BOARD OF EDUCATION OF CABARRUS COUNTY  
DB 228 PG 192  
DB 235 PG 141  
DB 212 PG 068

237+00

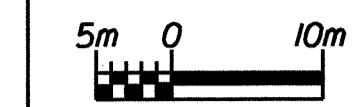
GOAL POST

MATCH LINE -L-REV STA. 233+40 SEE SHEET 13



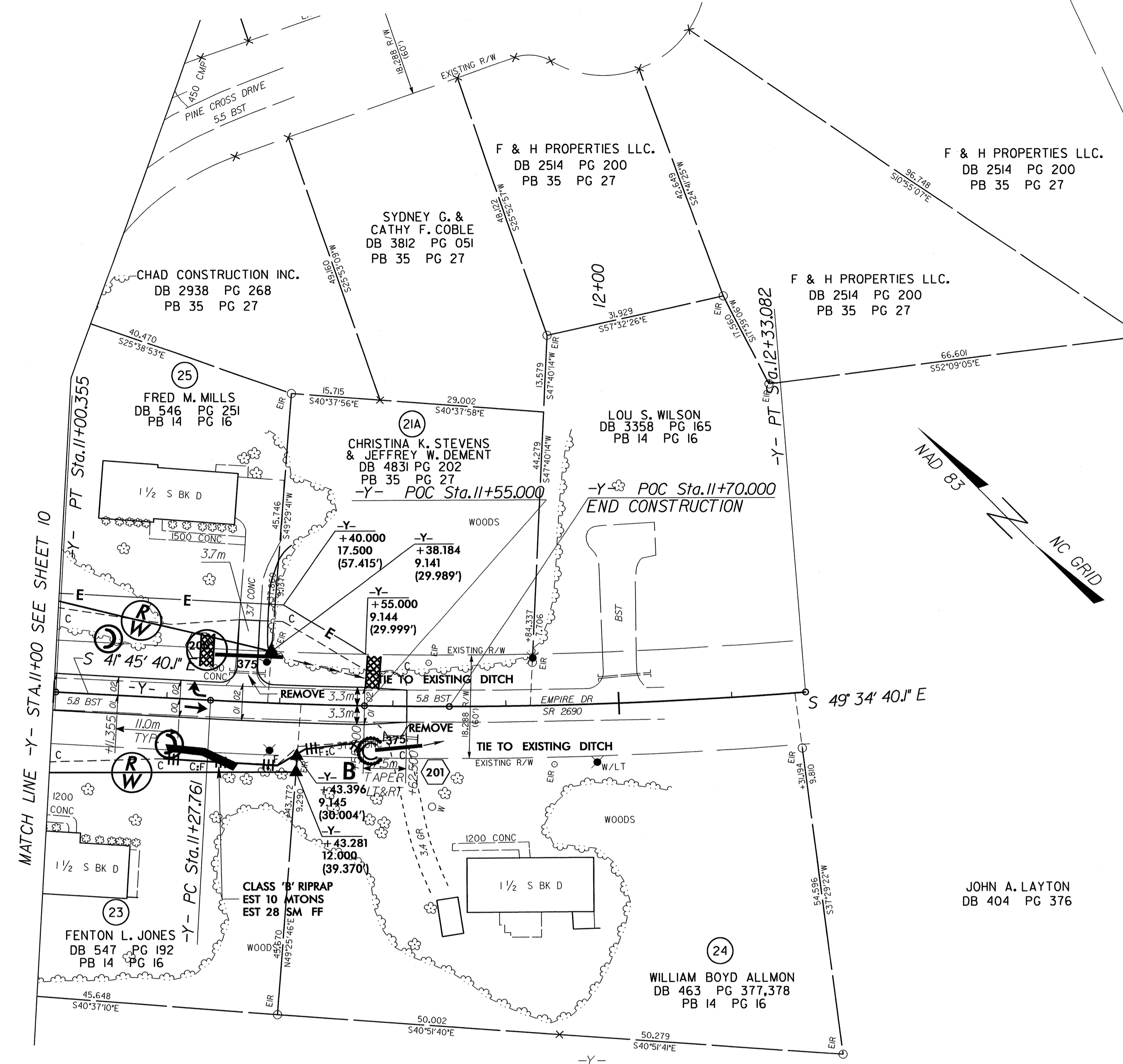
**12 x 5 x 1  
38 mm Skimmer  
with 18 mm  
Orifice Diameter  
2.5 m weir  
ID 14.1C&G**

DATE: #DATE## TIME: #TIME## USER: #USER## CON: #CON##

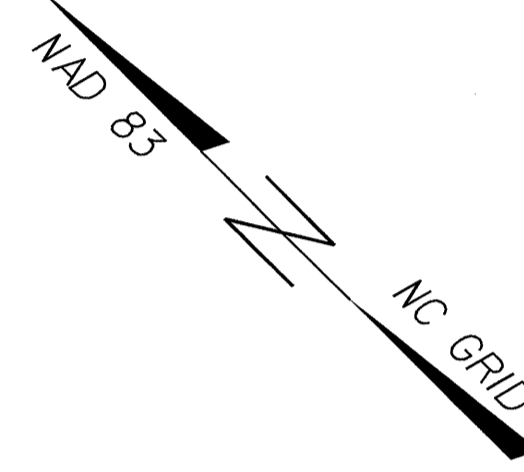


CONST. REV.  
R/W REV.

PROJ. REFERENCE NO. R-2533CC	SHEET NO. EC-36/CONST.15
HIGHWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
Prepared in the Office of:	



MATCH LINE -Y- STA. 11+00 SEE SHEET 10



PI STA. 11+80.504  
 $\Delta = 07^\circ 49' 00.0''$  (LT)  
 $Lc = 105.321$   
 $R = 772.000$   
 $T = 52.743$

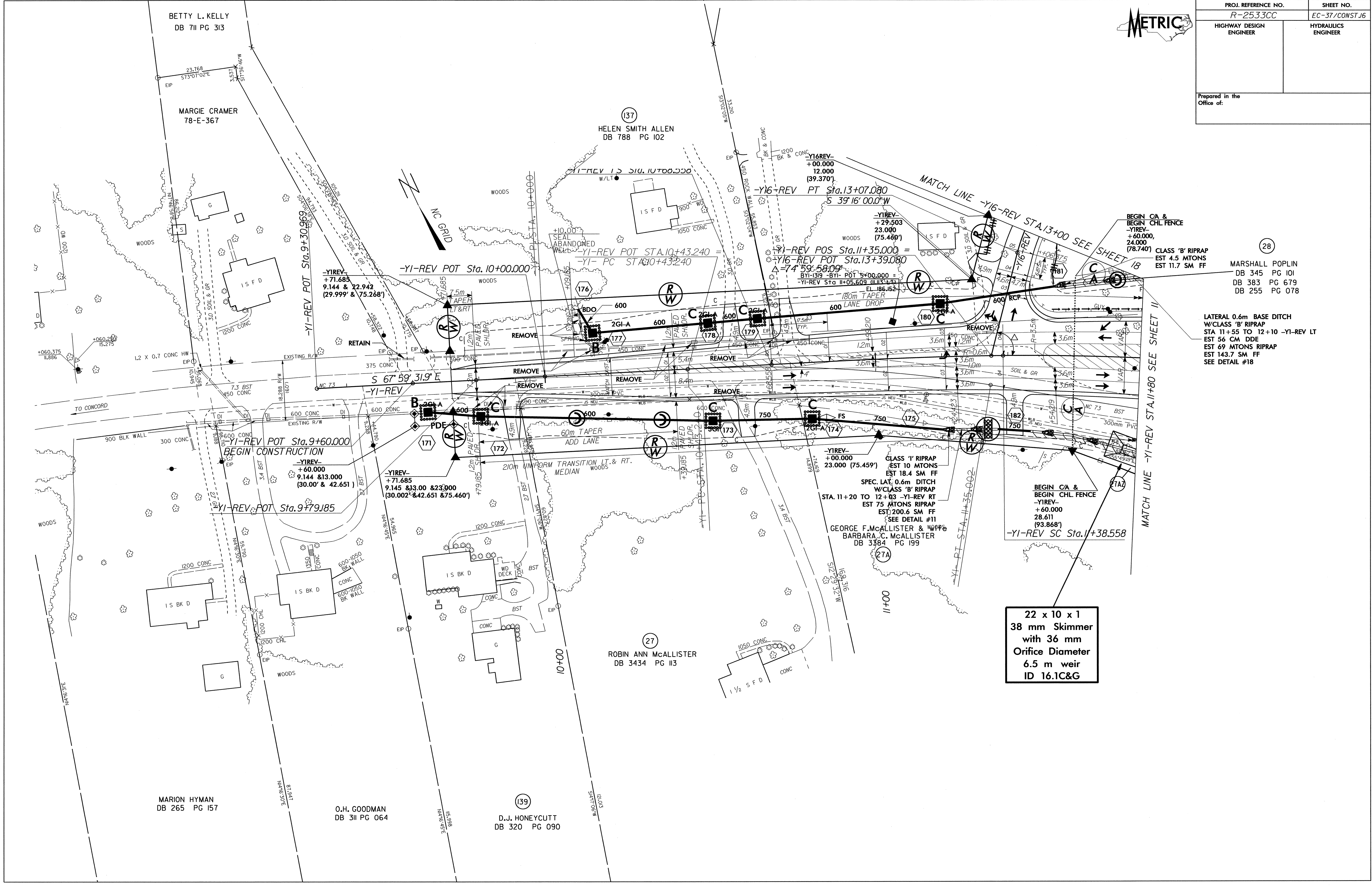
JOHN RAY NOBLES, JR.  
 DB 521 PG 561

JOHN A. LAYTON  
 DB 404 PG 376

DATE: 08/07/08  
 TIME: 08:00  
 USER: JRN  
 DGN: JRN



PROJ. REFERENCE NO. R-2533CC	SHEET NO. EC-37/CONST.16
HIGHWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
Prepared in the Office of:	



BETTY L. KELLY  
DB 711 PG 313

MARGIE CRAMER  
78-E-367

(137)  
HELEN SMITH ALLEN  
DB 788 PG 102

(28)  
MARSHALL POPLIN  
DB 345 PG 101  
DB 383 PG 679  
DB 255 PG 078

(27)  
ROBIN ANN McALLISTER  
DB 3434 PG 113

(139)  
D.J. HONEYCUTT  
DB 320 PG 090

MARION HYMAN  
DB 265 PG 157

O.H. GOODMAN  
DB 311 PG 064

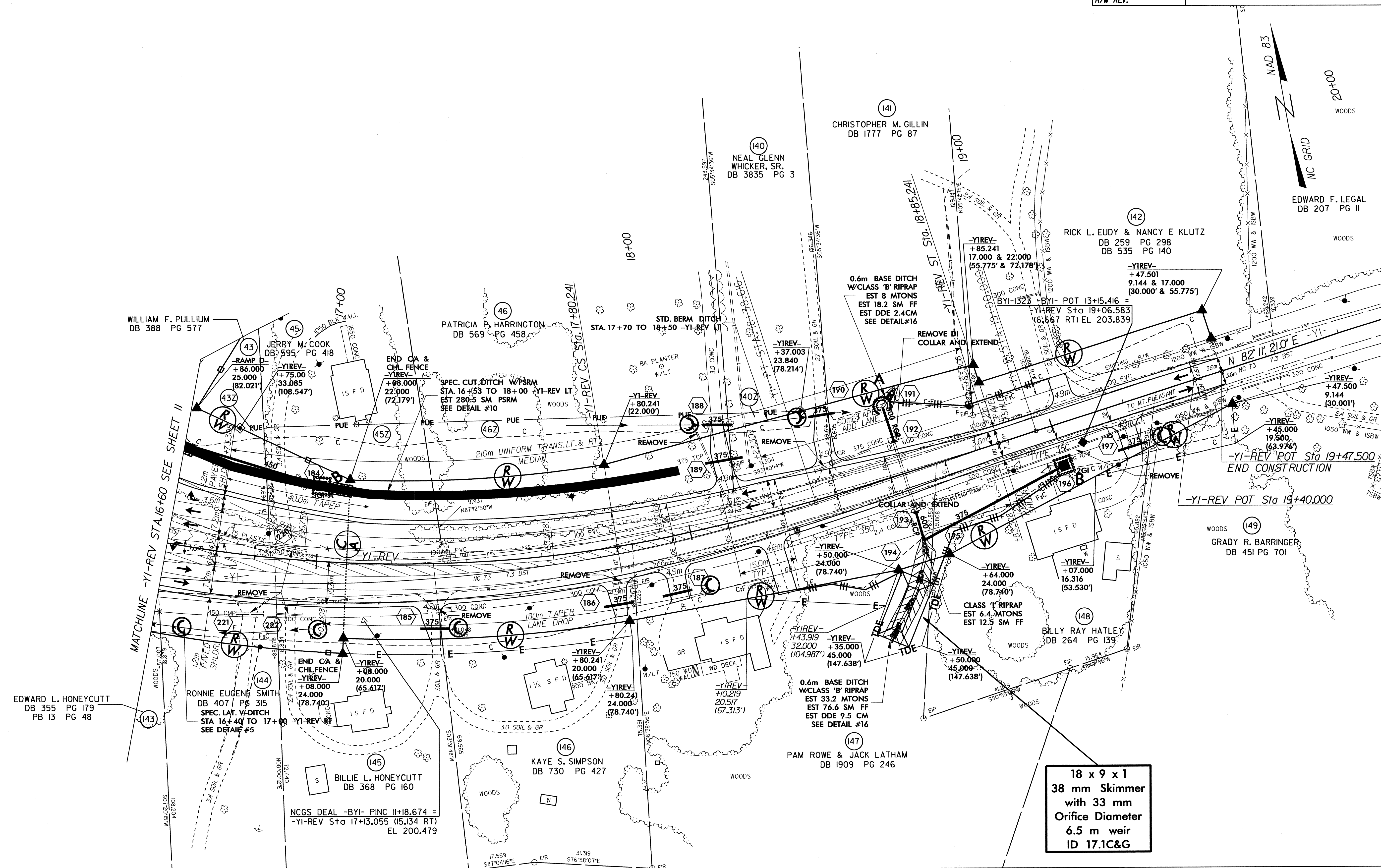
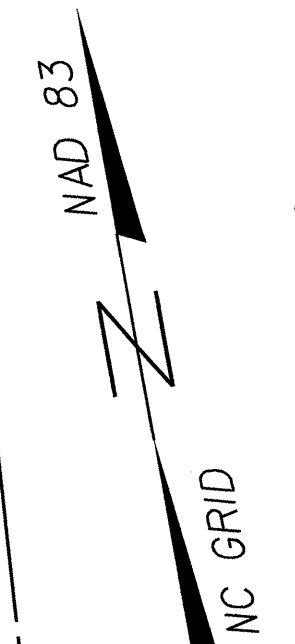
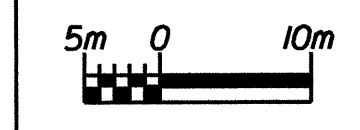
22 x 10 x 1  
38 mm Skimmer  
with 36 mm  
Orifice Diameter  
6.5 m weir  
ID 16.1C&G

USER: #USER#  
DATE: #DATE#  
TIME: #TIME#



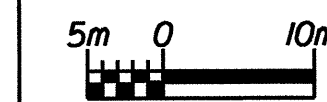


PROJ. REFERENCE NO. R-2533CC	SHEET NO. EC-38/CONST.17
HIGHWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
Prepared in the Office of:	
CONST. REV.	
R/W REV.	



18 x 9 x 1  
38 mm Skimmer  
with 33 mm  
Orifice Diameter  
6.5 m weir  
ID 17.1C&G

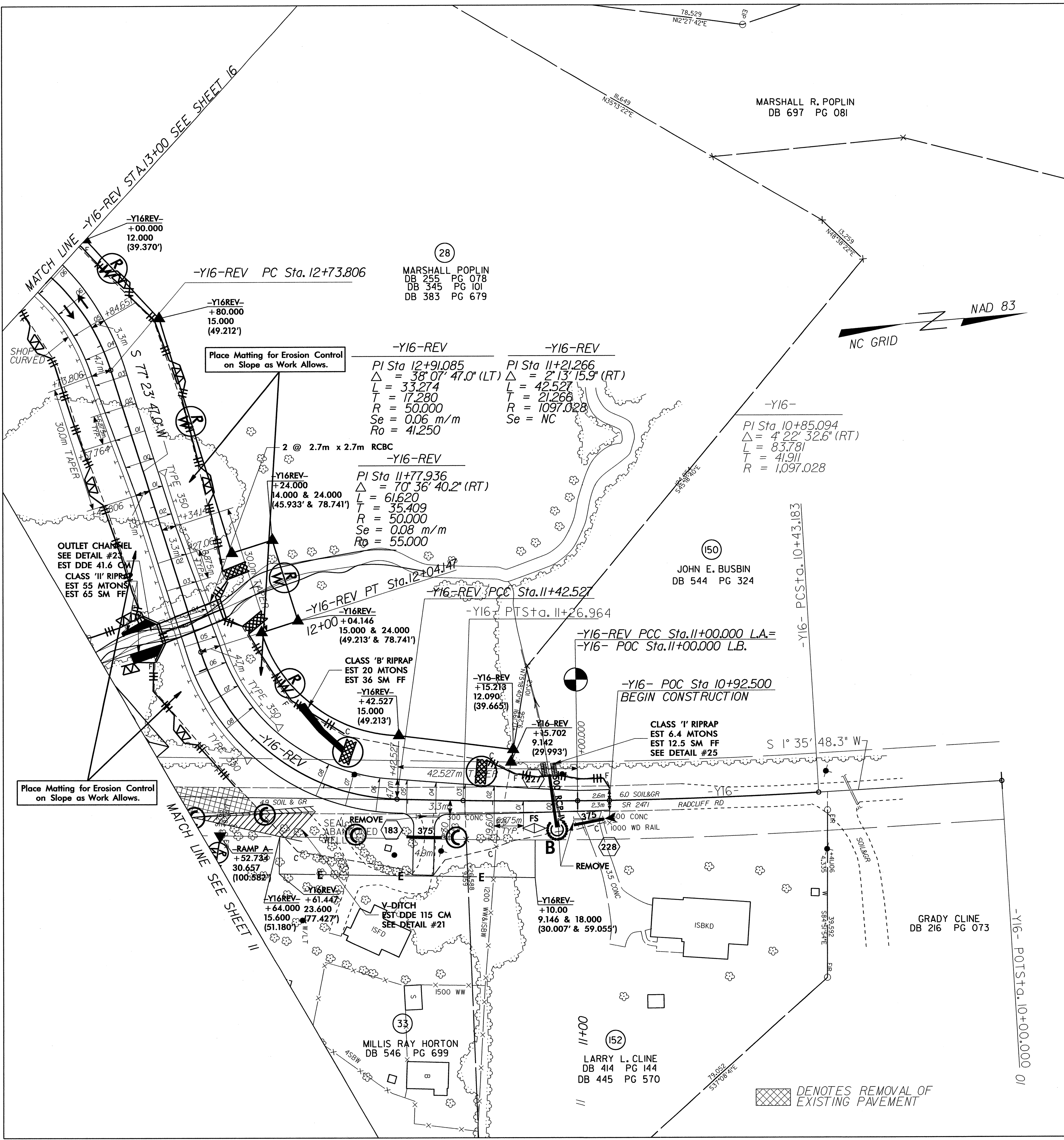
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DATE: #/DATE#  
TIME: #/TIME#



CONST. REV.  
R/W REV.

PROJ. REFERENCE NO. R-2533CC	SHEET NO. EC-39/CONST.18
HIGHWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

Prepared in the Office of:

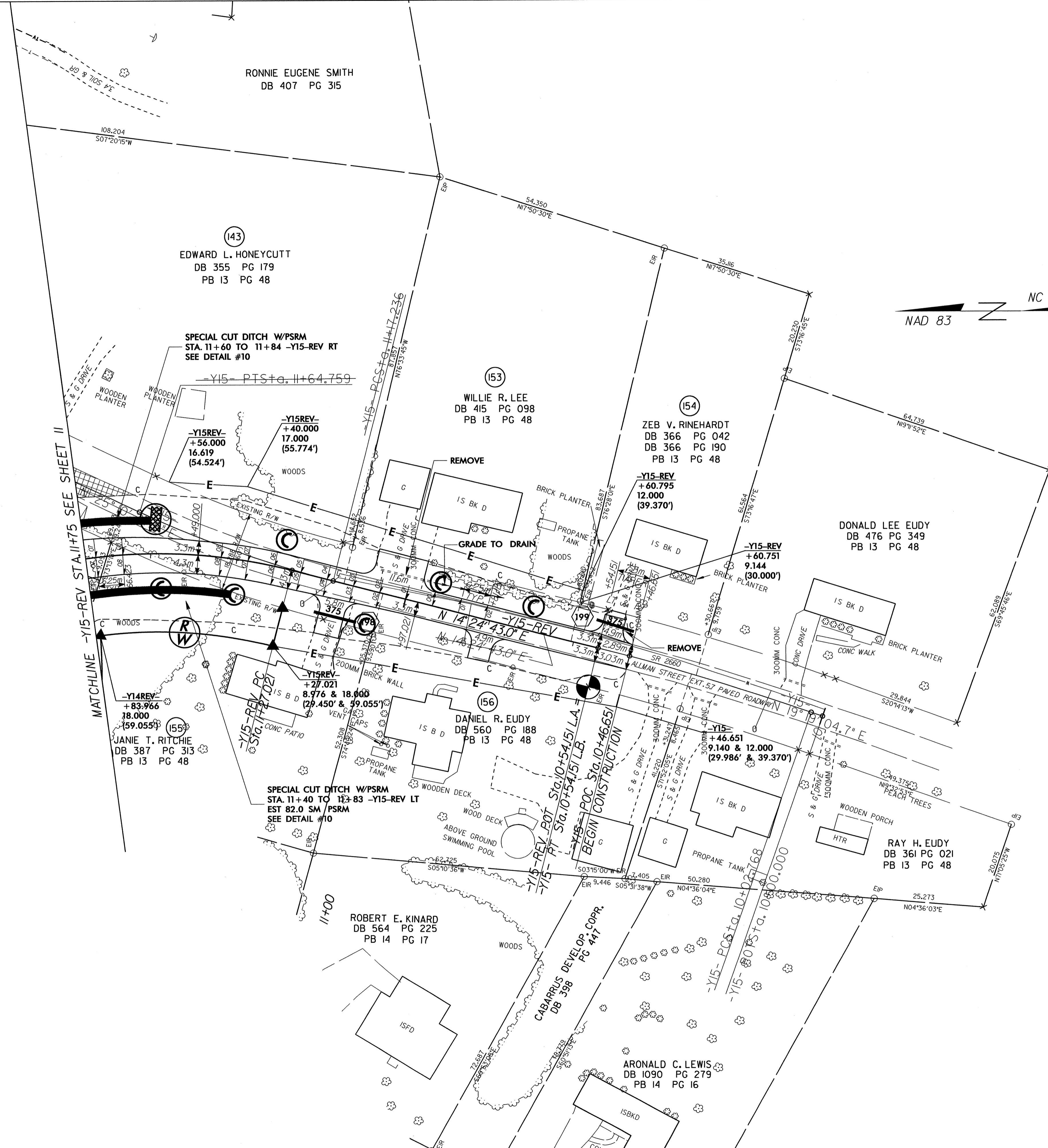
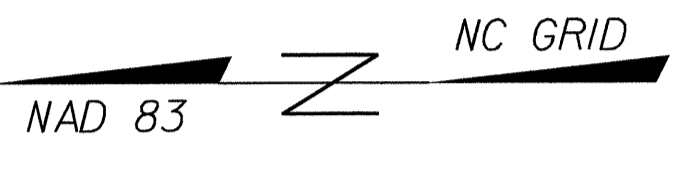
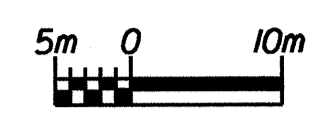


DENOTES REMOVAL OF EXISTING PAVEMENT

DATE: ##/##/##  
TIME: ##:##  
USER: ##/##/##  
JOB: ##/##/##



PROJ. REFERENCE NO. R-2533CC	SHEET NO. EC-40/CONST.19
HIGHWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
Prepared in the Office of:	
CONST. REV.	
R/W REV.	



DENOTES REMOVAL OF EXISTING PAVEMENT

USER: #USER#  
DATE: #DATE#  
TIME: #TIME#