

TIP PROJECT: U-2306A

STATE OF NORTH CAROLINA
 DIVISION OF HIGHWAYS
 PLAN FOR PROPOSED
 HIGHWAY EROSION CONTROL
CATAWBA COUNTY

**LOCATION: HICKORY - LENOIR RHYNE BLVD. EXTENSION
 FROM TATE BLVD. TO 7TH AVE. NE.**
**TYPE OF WORK: WIDENING, GRADING, DRAINAGE, PAVING, STRUCTURES,
 SIGNALS, SIGNING AND TRACKWORK**

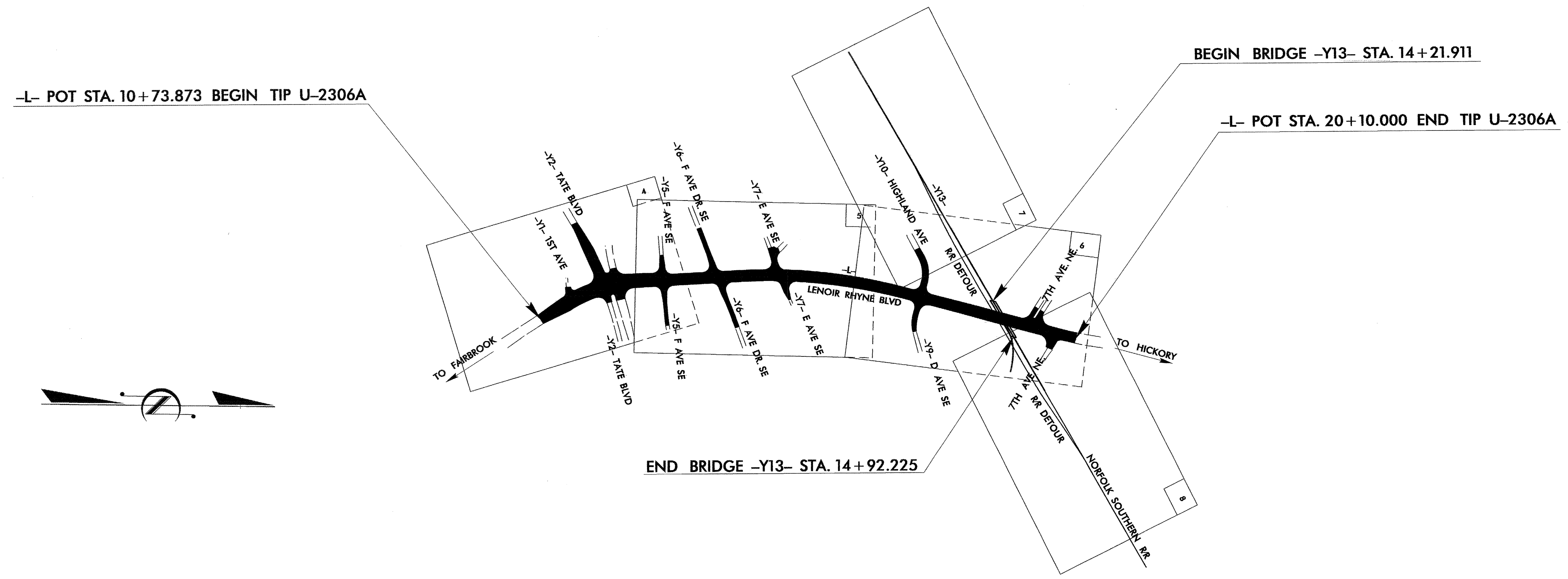
METRIC
 ALL DIMENSIONS IN THESE
 PLANS ARE IN METERS
 UNLESS OTHERWISE SHOWN

STATE	STATE PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.	U-2306A	EC-1	
STATE PROJ. NO.	F.A. PROJ. NO.	DESCRIPTION	

EROSION AND SEDIMENT CONTROL MEASURES

Std. #	Description	Symbol
	Streambank Reforestation	
1630.05	Temporary Silt Ditch	
1630.05	Temporary Diversion	
1605.01	Temporary Silt Fence	
1606.01	Special Sediment Control Fence	
1622.01	Temporary Berms and Slope Drains	
1630.01	Riser Basin	
1630.02	Silt Basin Type B	
1633.01	Temporary Rock Silt Check Type-A	
1633.02	Temporary Rock Silt Check Type-B	
1634.01	Temporary Rock Sediment Dam Type-A	
1634.02	Temporary Rock Sediment Dam Type-B	
1635.01	Rock Pipe Inlet Sediment Trap Type-A	
1635.02	Rock Pipe Inlet Sediment Trap Type-B	
1630.04	Stilling Basin	
	Rock Inlet Sediment Trap:	
1632.01	Type A	
1632.02	Type B	
1632.03	Type C	
	Skimmer Basin	
	Tiered Skimmer Basin	

**THIS PROJECT CONTAINS
 EROSION CONTROL PLANS
 FOR CLEARING AND
 GRUBBING PHASE OF
 CONSTRUCTION.**



GRAPHIC SCALE

0

 PLANS

0

 PROFILE (HORIZONTAL)

0

 PROFILE (VERTICAL)

ROADSIDE ENVIRONMENTAL UNIT
 DIVISION OF HIGHWAYS
 STATE OF NORTH CAROLINA

Prepared In the Office of:
ROADSIDE ENVIRONMENTAL UNIT
 1 South Wilmington St.
 Raleigh, NC 27611
2002 STANDARD SPECIFICATIONS

Roadway Standard Drawings

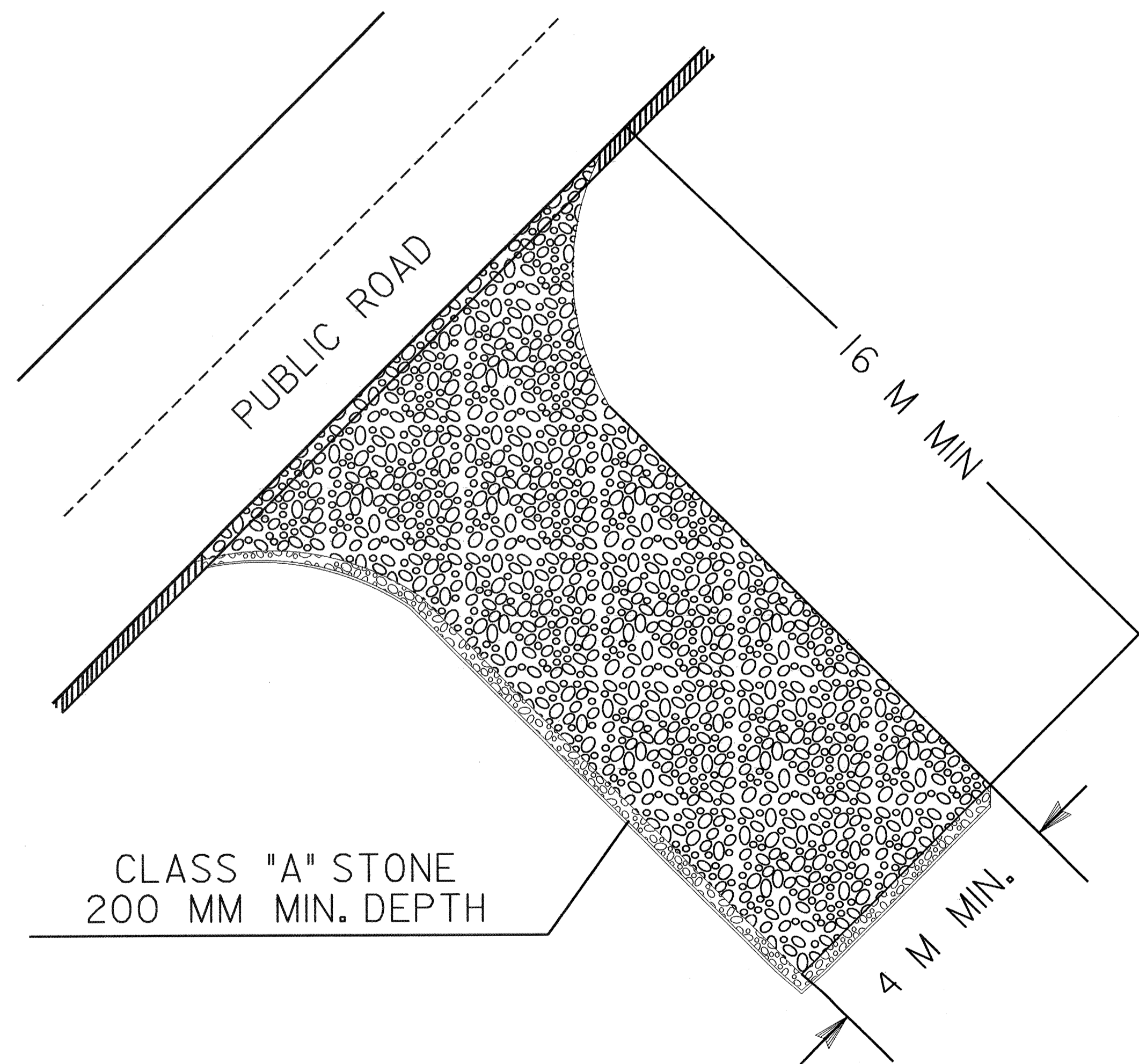
The following roadway metric standards as appear in "Roadway Standard Drawings"- Roadway Design Unit - N. C. Department of Transportation - Raleigh, N. C., dated January 20, 2002 and the latest revision thereto are applicable to this project and by reference hereby are considered a part of these plans.

- 1605.01 Temporary Silt Fence
- 1622.01 Temporary Berms and Slope Drains
- 1630.02 Silt Basin Type B
- 1630.03 Temporary Silt Ditch
- 1632.03 Rock Inlet Sediment Trap Type C
- 1633.01 Temporary Rock Silt Check Type A
- 1633.02 Temporary Rock Silt Check Type B
- 1635.01 Rock Pipe Inlet Sediment Trap Type A
- 1635.02 Rock Pipe Inlet Sediment Trap Type B



PROJECT REFERENCE NO.	SHEET NO.
U-2306A	EC-2
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

TEMPORARY GRAVEL CONSTRUCTION ENTRANCE



NOTES:

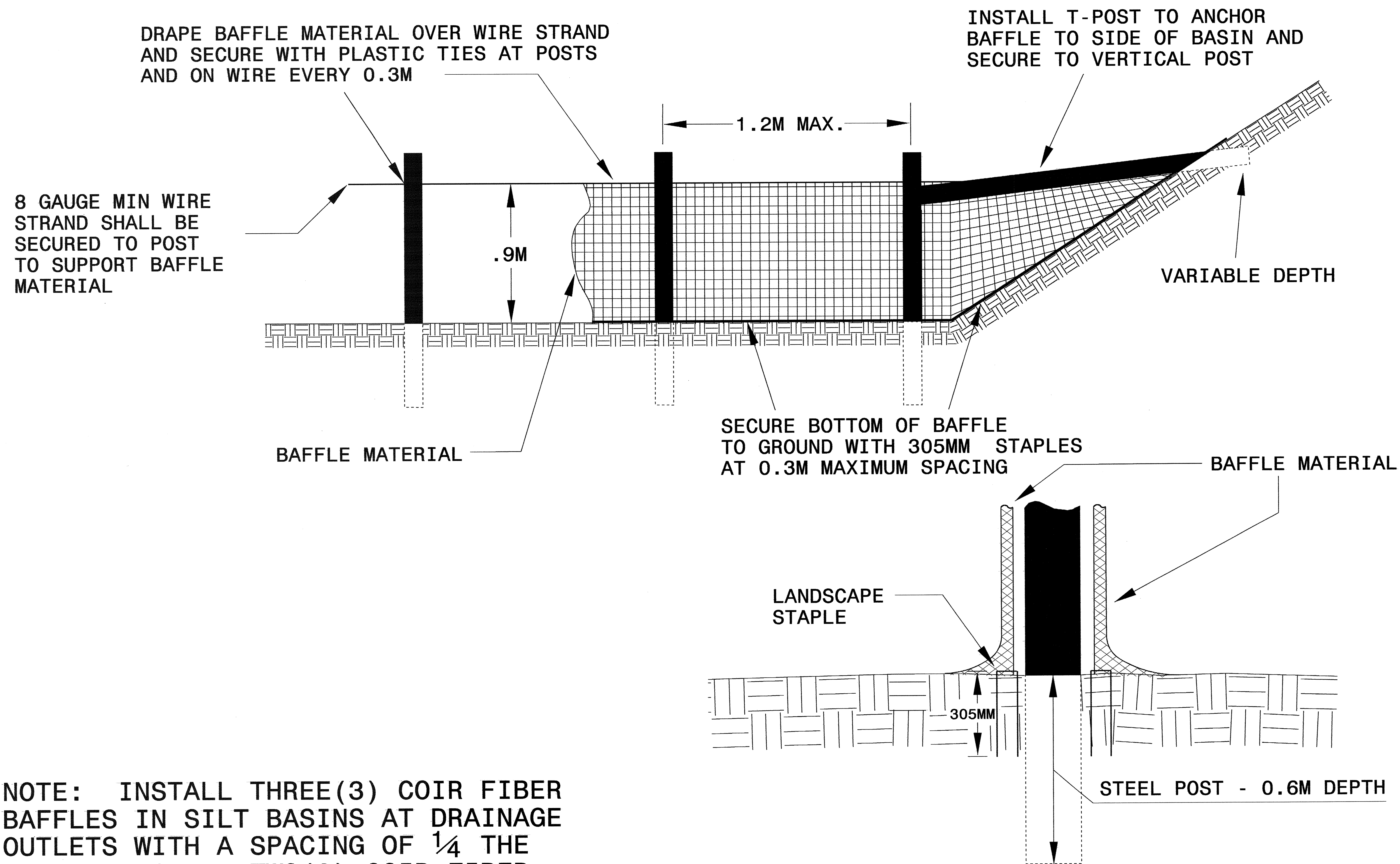
1. TURNING RADIUS SUFFICIENT TO ACCOMODATE LARGE TRUCKS SHALL BE PROVIDED.
2. ENTRANCE(S) SHOULD BE LOCATED TO PROVIDE FOR UTILIZATION BY ALL CONSTRUCTION VEHICLES.
3. MUST BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING OR DIRECT FLOW OF MUD ONTO STREETS. PERIODIC TOPDRESSING WITH STONE WILL 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. U-2306A	SHEET NO. EC-2A
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER


COIR FIBER BAFFLE DETAIL

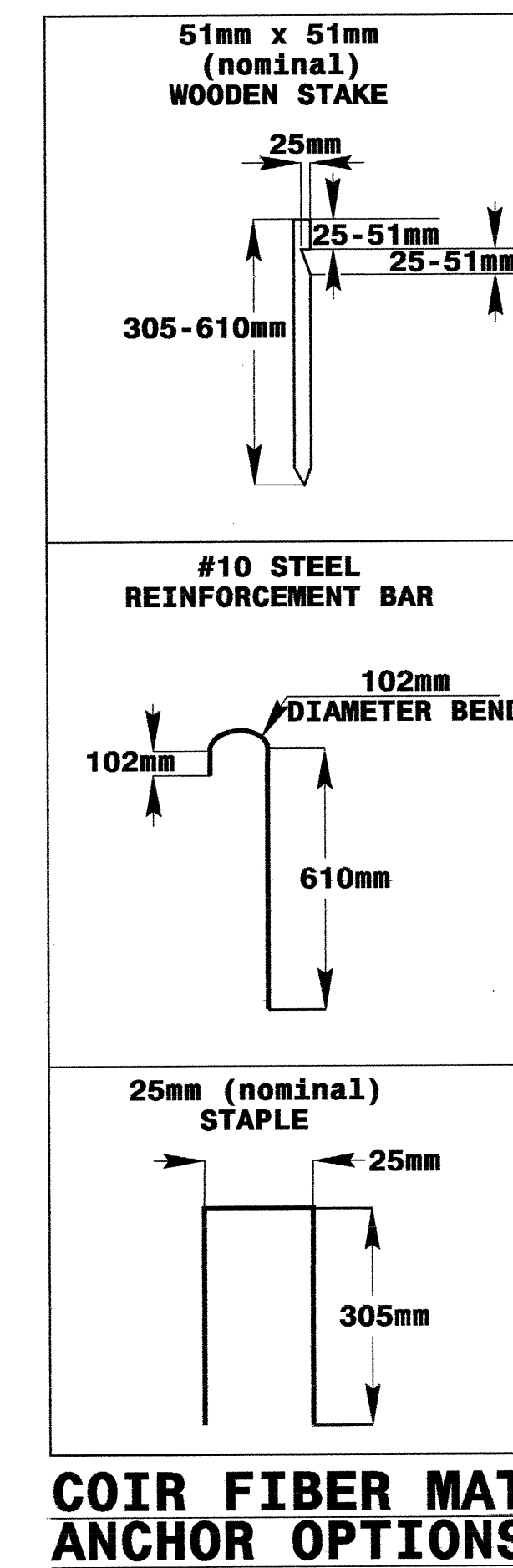
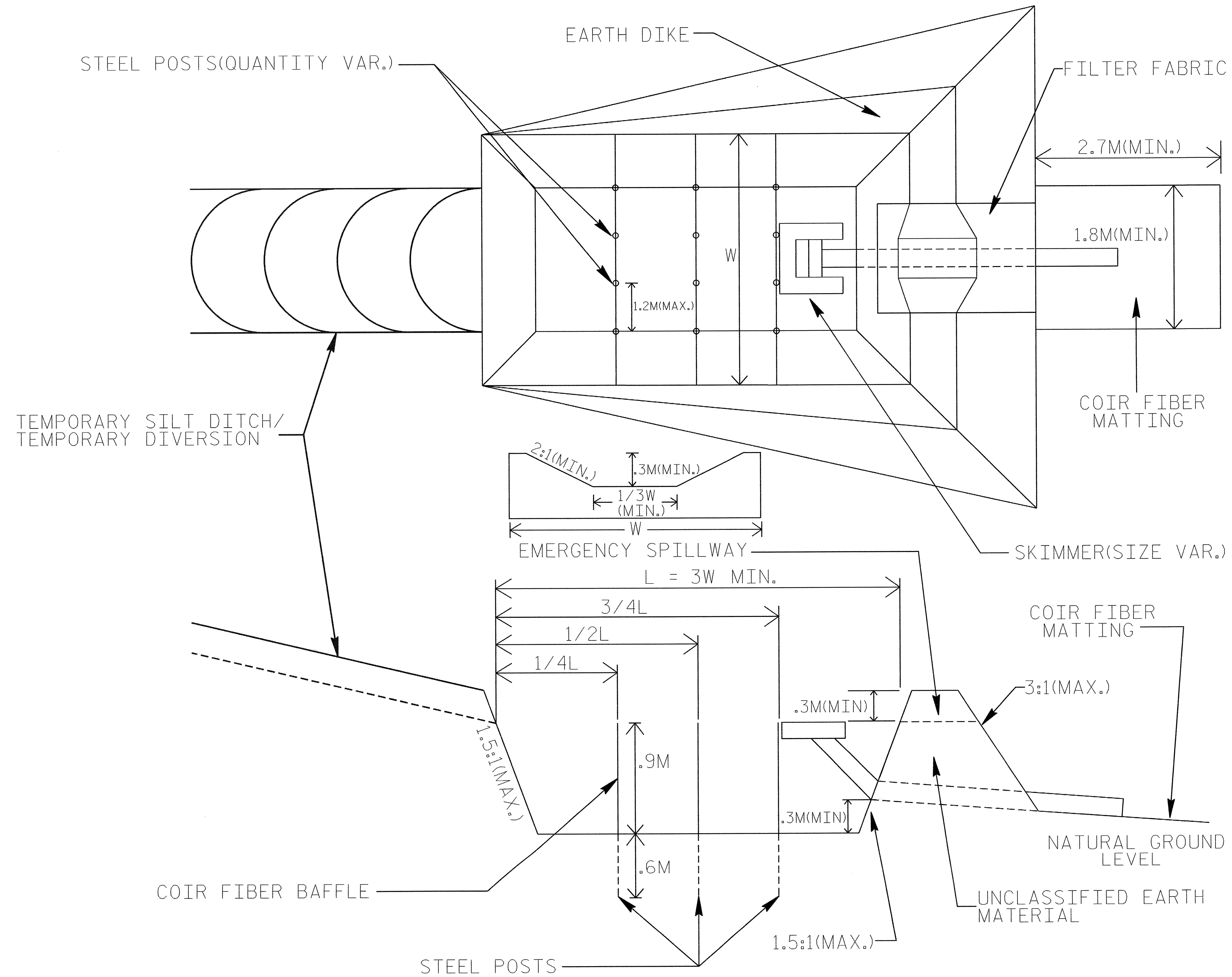


NOTE: INSTALL THREE(3) COIR FIBER BAFFLES IN SILT BASINS AT DRAINAGE OUTLETS WITH A SPACING OF $\frac{1}{4}$ THE BASIN LENGTH. TWO(2) COIR FIBER BAFFLES CAN BE INSTALLED IN SILT BASINS LESS THAN 6 M IN LENGTH WITH A SPACING OF $\frac{1}{3}$ THE BASIN LENGTH.

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

SKIMMER BASIN WITH BAFFLES DETAIL

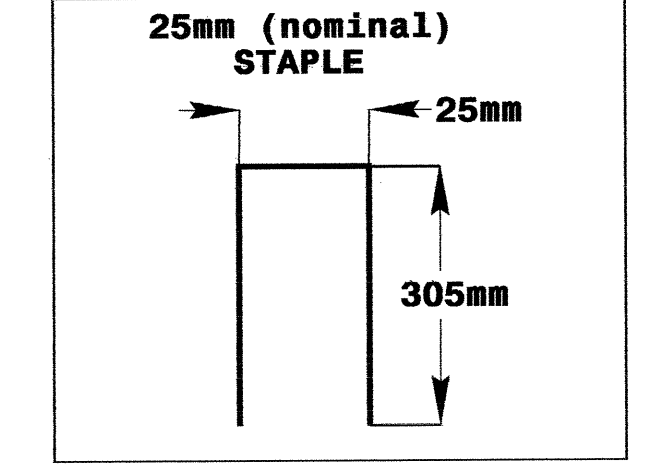
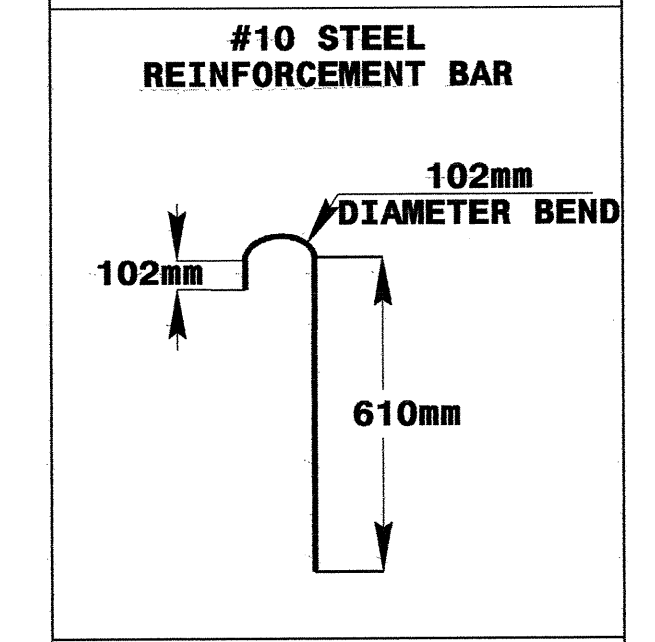
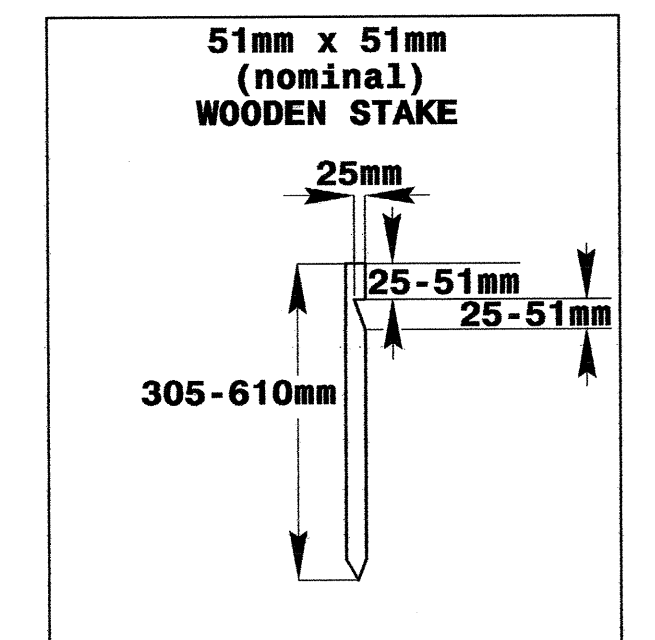
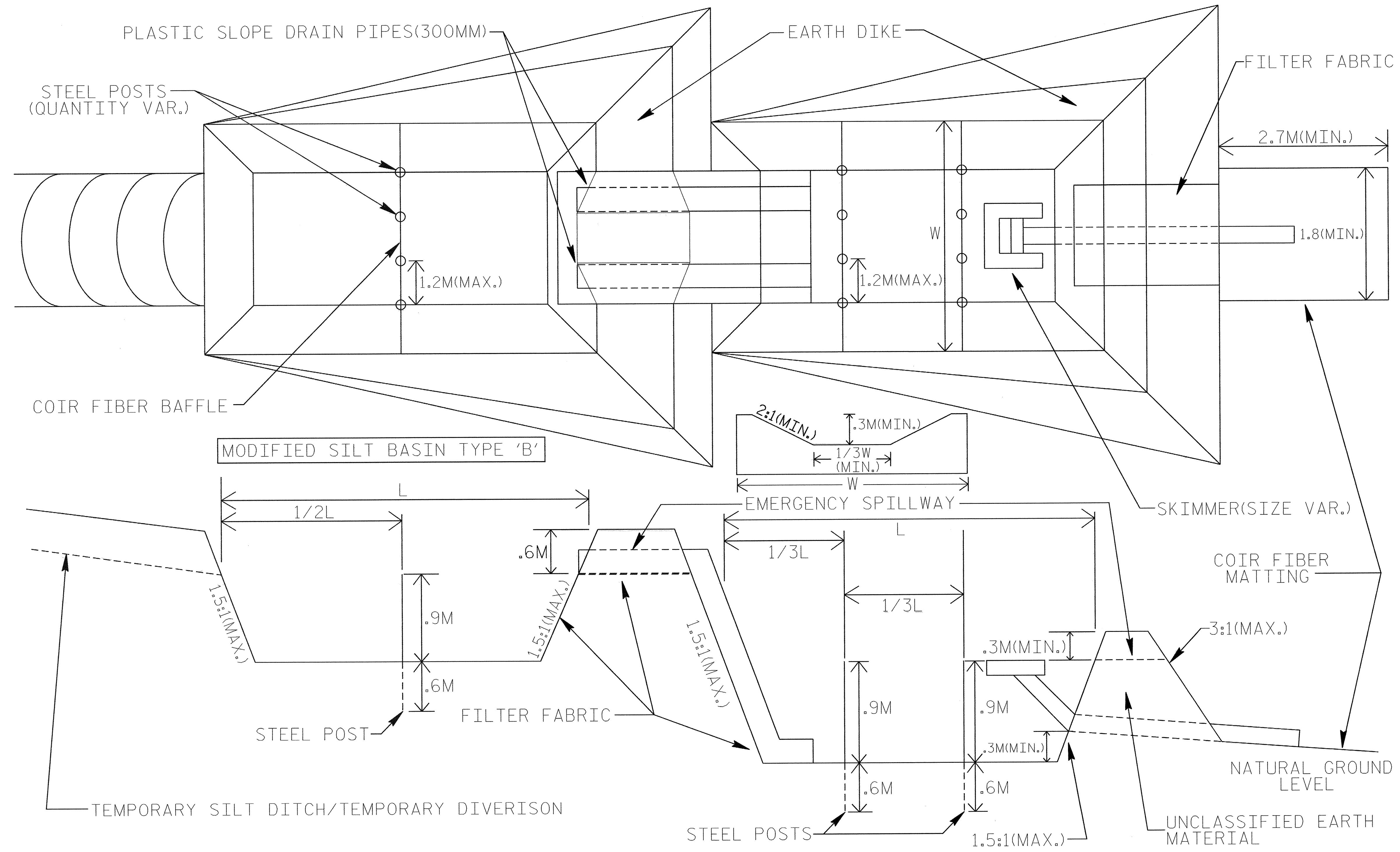
	PROJECT REFERENCE NO.	SHEET NO.
	U-2306A	EC-2B
	R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER	





PROJECT REFERENCE NO. U-2306A	SHEET NO. EC-2C
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

TIERED SKIMMER BASIN DETAIL



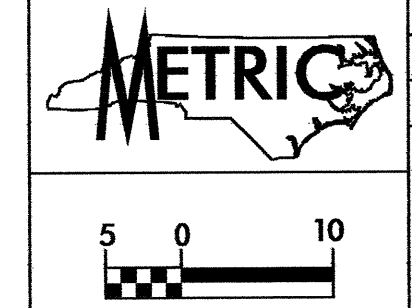
COIR FIBER MAT ANCHOR OPTIONS

NOTE

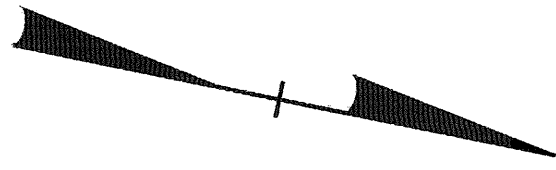
ADDITIONAL MODIFIED SILT BASINS TYPE 'B' MAY BE NEEDED DEPENDING ON SLOPE.

CLEARING AND GRUBBING
EROSION CONTROL FOR
CONSTRUCTION SHEET 04

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



PROJECT REFERENCE NO. U-2306A	SHEET NO. EC-04/CONST.04
R/W SHEET NO.	HYDRAULICS ENGINEER
ROADWAY DESIGN ENGINEER	



BEG. CONSTRUCTION
-Y2- POS Sta. 11+21.082

-Y2- SC Sta. 11+40.424

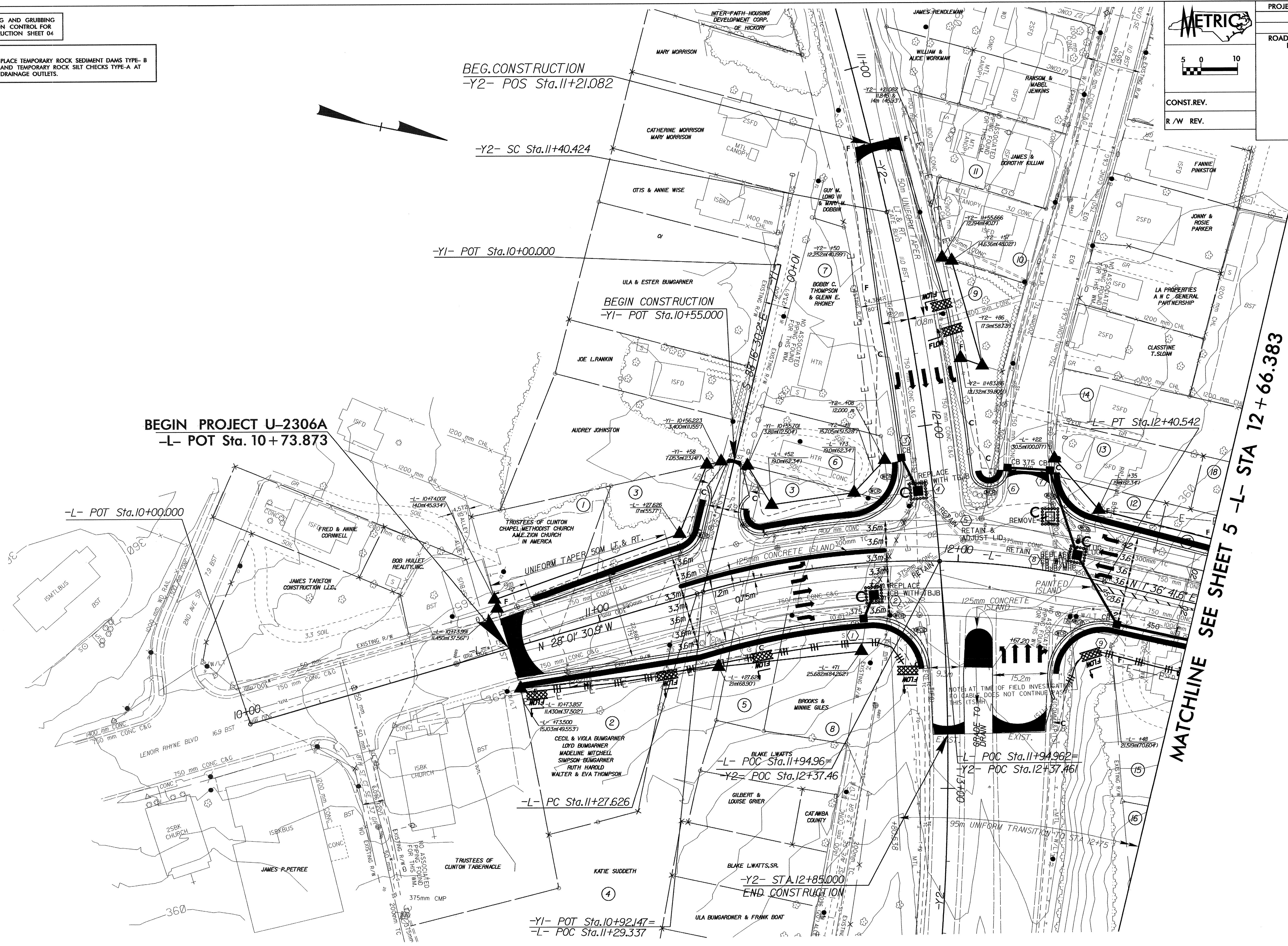
-Y1- POT Sta. 10+00.000

BEGIN CONSTRUCTION
-Y1- POT Sta. 10+55.000

BEGIN PROJECT U-2306A
-L- POT Sta. 10+73.873

-L- POT Sta. 10+00.000

MATCHLINE SEE SHEET 5 -L- STA 12 + 66.383



-Y1- POT Sta. 10+92.147=
-L- PC Sta. 11+29.337

-Y2- STA. 12+85.000
END CONSTRUCTION

-L- POC Sta. 11+94.962=
-Y2- POC Sta. 12+37.461

-L- POC Sta. 11+94.962=
-Y2- POC Sta. 12+37.46

-L- PC Sta. 11+27.626

METRIC

5 0 10

CONST. REV.

R/W REV.

PROJECT REFERENCE NO. U-2306A	SHEET NO. EC-06/CONST.06
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

CLEARING AND GRUBBING
EROSION CONTROL FOR
CONSTRUCTION SHEET 06

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

DESIGN EXCEPTION FOR VERTICAL CLEARANCE ON RAILROAD STRUCTURE AT -Y13-

OBLITERATION OF EXIST. ROAD

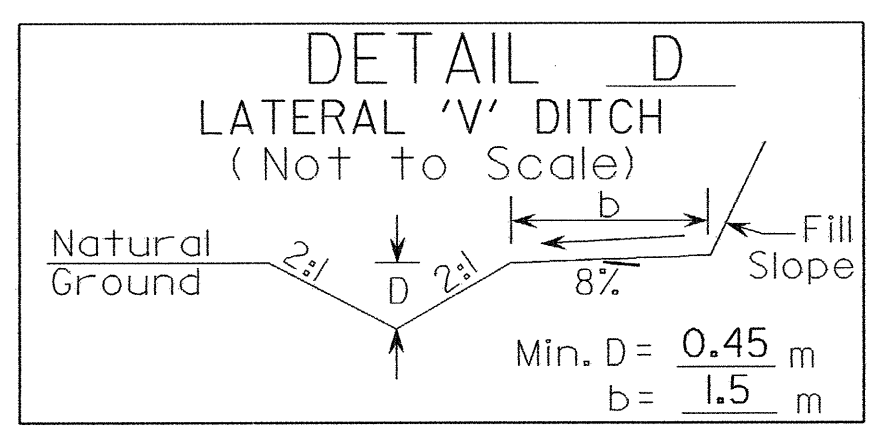
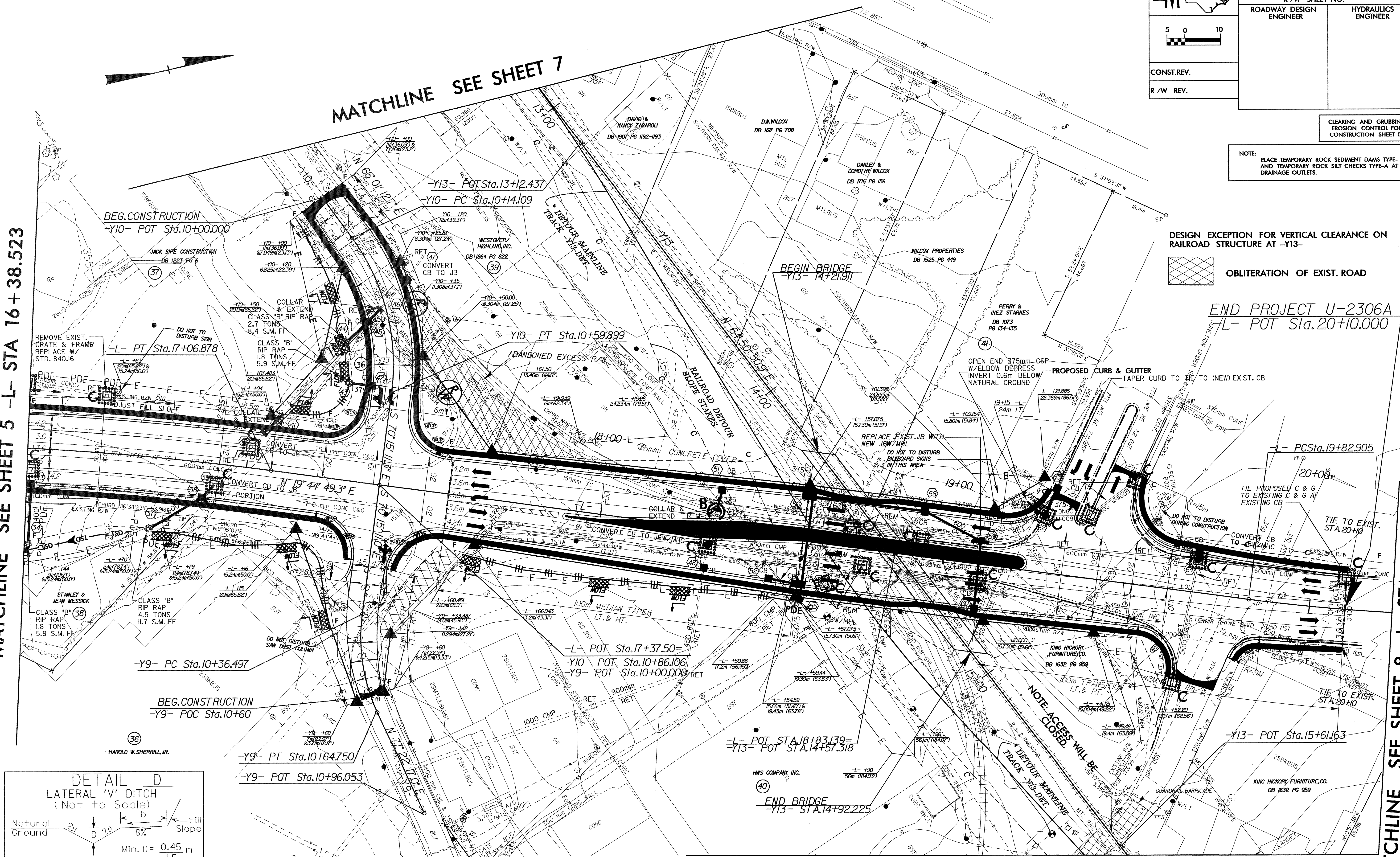
END PROJECT U-2306A
-L- POT Sta. 20+10.000

MATCHLINE SEE SHEET 5 -L- STA 16+38.523

MATCHLINE SEE SHEET 8 -L- STA 20+23.215

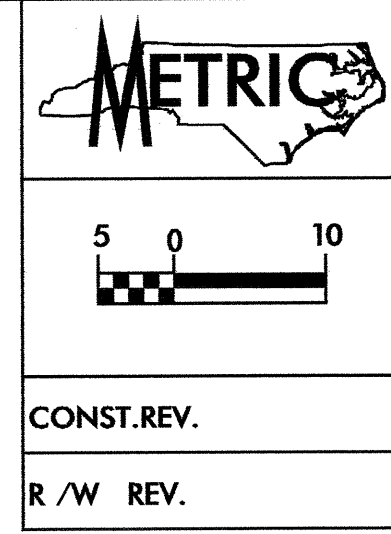
MATCHLINE SEE SHEET 7

MATCHLINE SEE SHEET 8

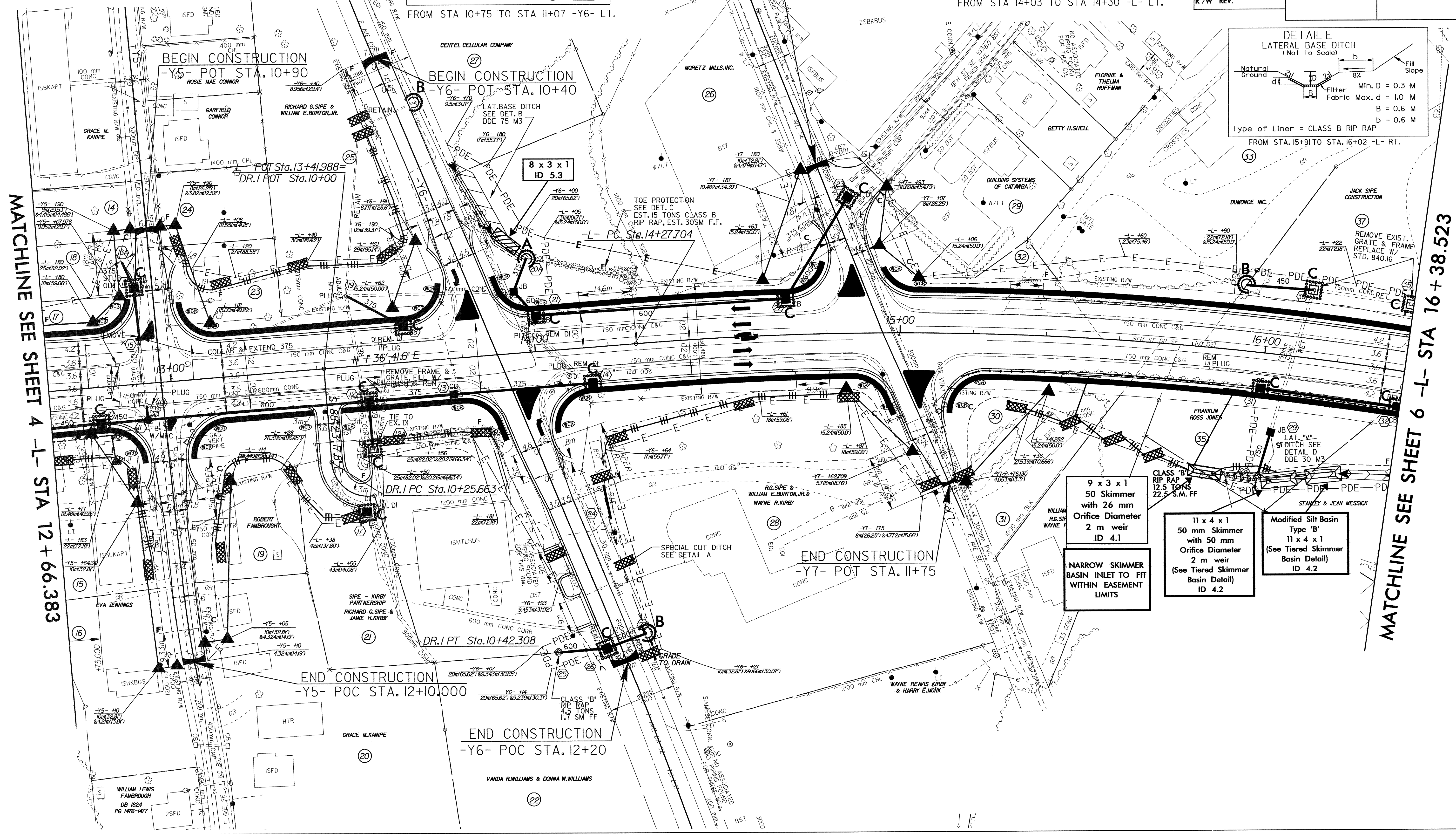
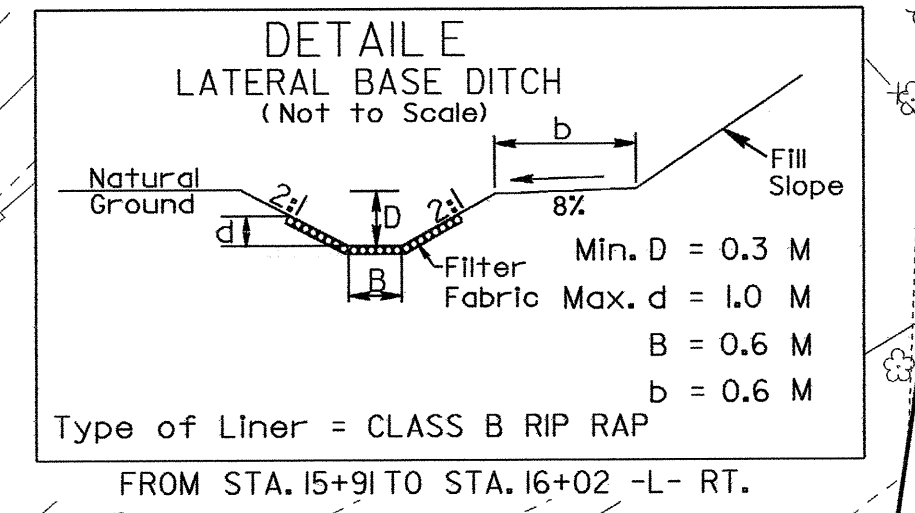
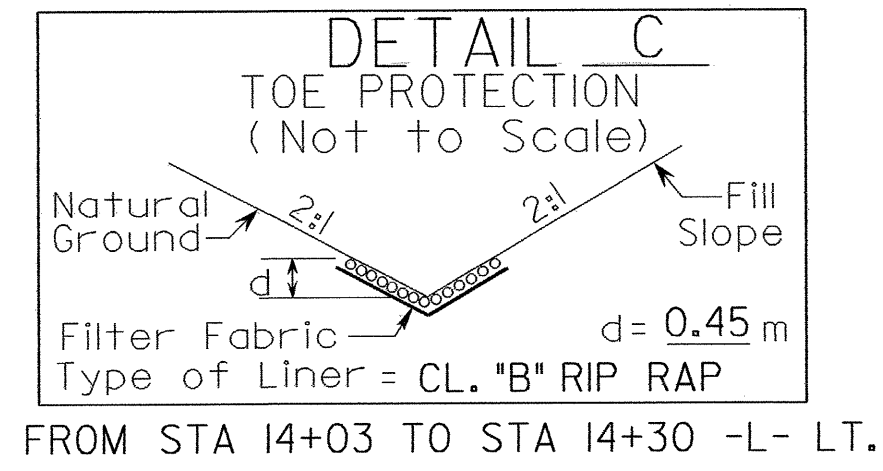
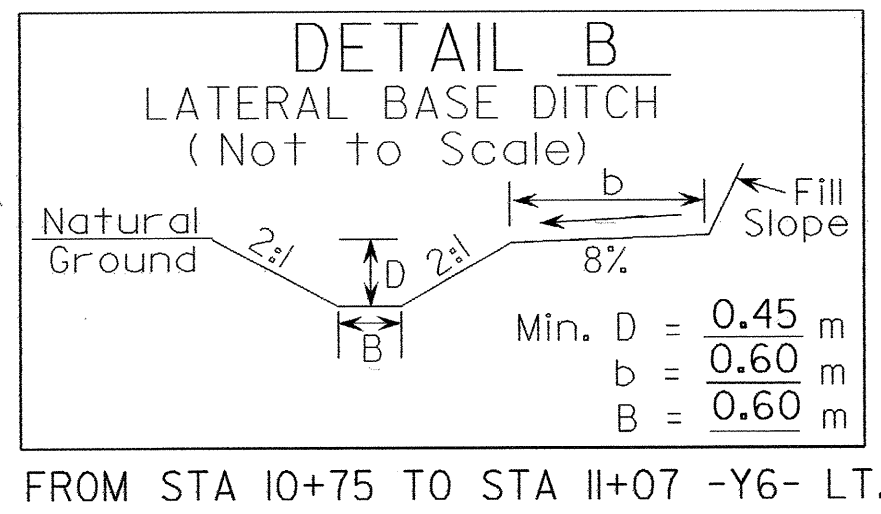
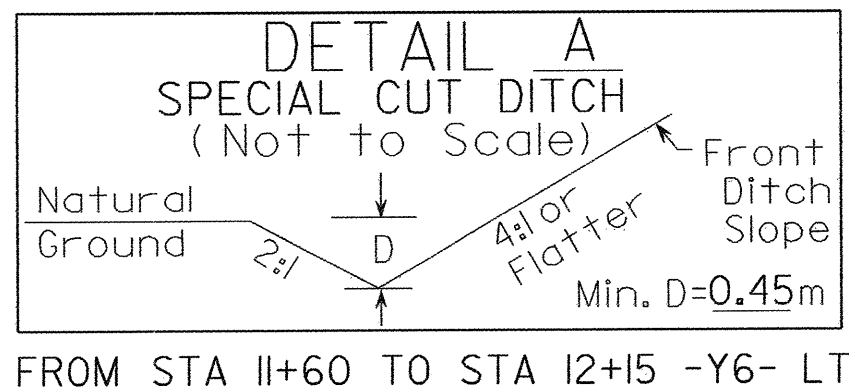


FROM STA 16+02 TO STA 16+40 -L- RT.

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PROJECT REFERENCE NO.	SHEET NO.
U-2306A	EC-08/CONST.05
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
CONST.REV.	
R/W REV.	



MATCHLINE SEE SHEET 4 -L- STA 12+66.383

MATCHLINE SEE SHEET 6 -L- STA 16+38.523

BEGIN CONSTRUCTION
-Y7- POT STA. 10+80
MORETZ MILLS, INC.

END CONSTRUCTION
-Y7- POT STA. 11+75

BEGIN CONSTRUCTION
-Y5- POT STA. 10+90

BEGIN CONSTRUCTION
B-Y6- POT STA. 10+40

END CONSTRUCTION
-Y5- POC STA. 12+10.000

END CONSTRUCTION
-Y6- POC STA. 12+20

POT Sta. 13+41.988
DR. I POT Sta. 10+00

DR. I PC Sta. 10+25.663

DR. I PT Sta. 10+42.308

END CONSTRUCTION
-Y6- POC STA. 12+20

CLASS 'B' RIP RAP
4.5 TONS
11.7 SM FF

9 x 3 x 1
50 Skimmer
with 26 mm
Orifice Diameter
2 m weir
ID 4.1

11 x 4 x 1
50 mm Skimmer
with 50 mm
Orifice Diameter
2 m weir
(See Tiered Skimmer
Basin Detail)
ID 4.2

Modified Silt Basin
Type 'B'
11 x 4 x 1
(See Tiered Skimmer
Basin Detail)
ID 4.2

NARROW SKIMMER
BASIN INLET TO FIT
WITHIN EASEMENT
LIMITS

WILLIAM LEWIS
FAMROUGH
DB 1824
PG 1476-1477

GRACE M. KANIPE

VANDA R. WILLIAMS & DONNA W. WILLIAMS

WILLIAM E. BURTON, JR. &
WAYNE R. KIRBY

WAYNE REAVIS KIRBY &
HARRY E. MORK

EVA JENNINGS

SIFE - KIRBY
PARTNERSHIP
RICHARD G. SIFE &
JAMIE H. KIRBY

ROBERT
FAMROUGH

ISBKAPT

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