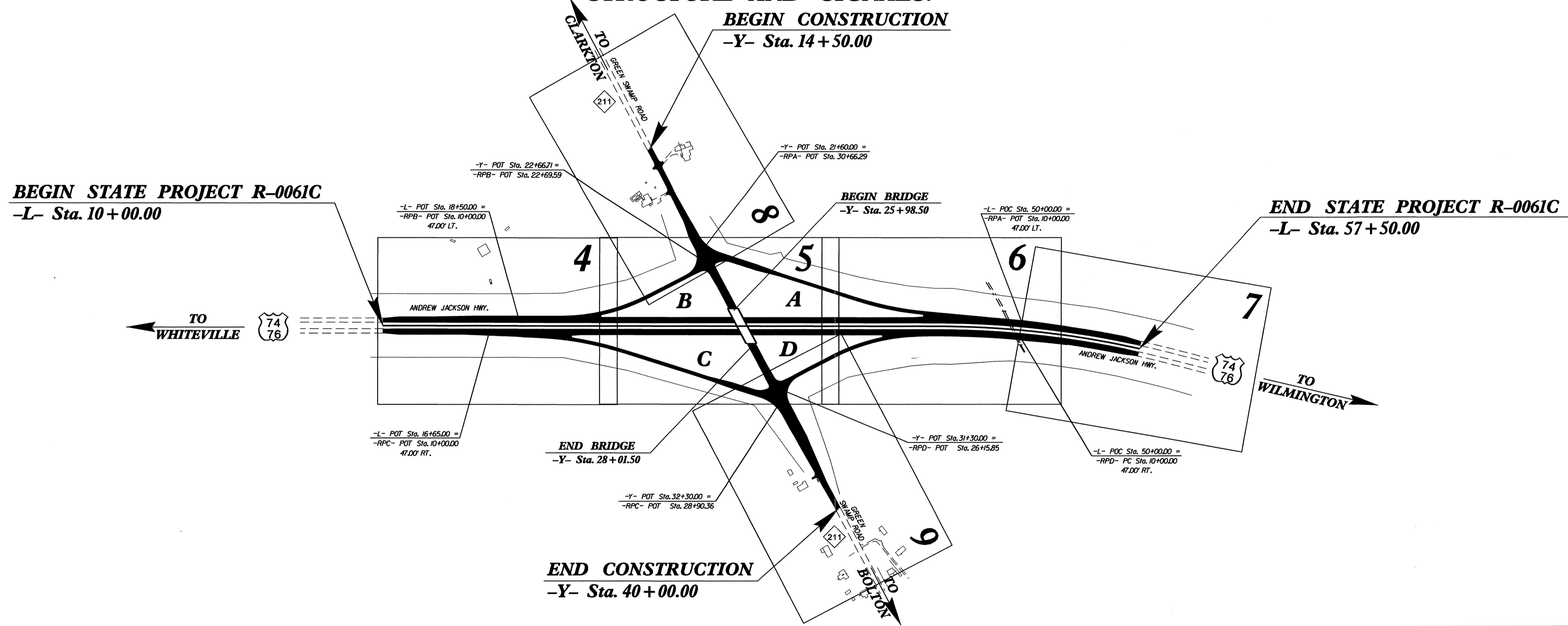
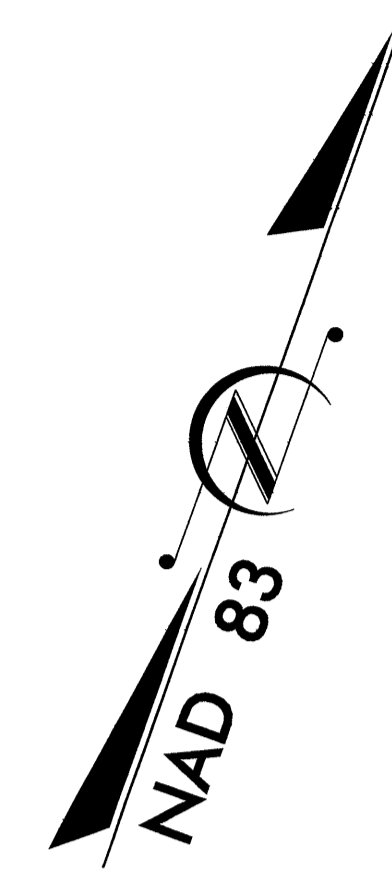


STATE	STATE PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.	R-0061C	EC-1	
STATE PROJ. NO.	F.A. PROJ. NO.	DESCRIPTION	

TIP PROJECT: R-0061C

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

**LOCATION: US 74 AT NC211. PROPOSED INTERCHANGE AT INTERSECTION OF US 74 /76
(ANDREW JACKSON HWY.) AND NC 211 (GREEN SWAMP RD.)**
**TYPE OF WORK: INTERSECTION IMPROVEMENTS, GRADING, DRAINAGE, PAVING,
STRUCTURE AND SIGNALS.**



EROSION AND SEDIMENT CONTROL MEASURES

Std. #	Description	Symbol
1630.03	Temporary Silt Ditch	TD
1630.05	Temporary Diversion	TD
1605.01	Temporary Silt Fence	
1606.01	Special Sediment Control Fence	▲▲▲
1622.01	Temporary Berms and Slope Drains	—
	Silt Basin Type B	▨
1633.01	Temporary Rock Silt Check Type-A	⊗
	Temporary Rock Silt Check Type-A with Matting and Polyacrylamide (PAM)	⊗
	Temporary Rock Silt Check Type-B	▶
	Wattle / Coir Fiber Wattle	⌋
	Wattle / Coir Fiber Wattle with Polyacrylamide (PAM)	⌋
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	▭
1630.06	Special Stilling Basin	▭
	Rock Inlet Sediment Trap:	
1632.01	Type A	A
1632.02	Type B	B
1632.03	Type C	C
	Skimmer Basin	▭
	Tiered Skimmer Basin	▭
	Infiltration 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
2006 STANDARD SPECIFICATIONS

Roadway Standard Drawings

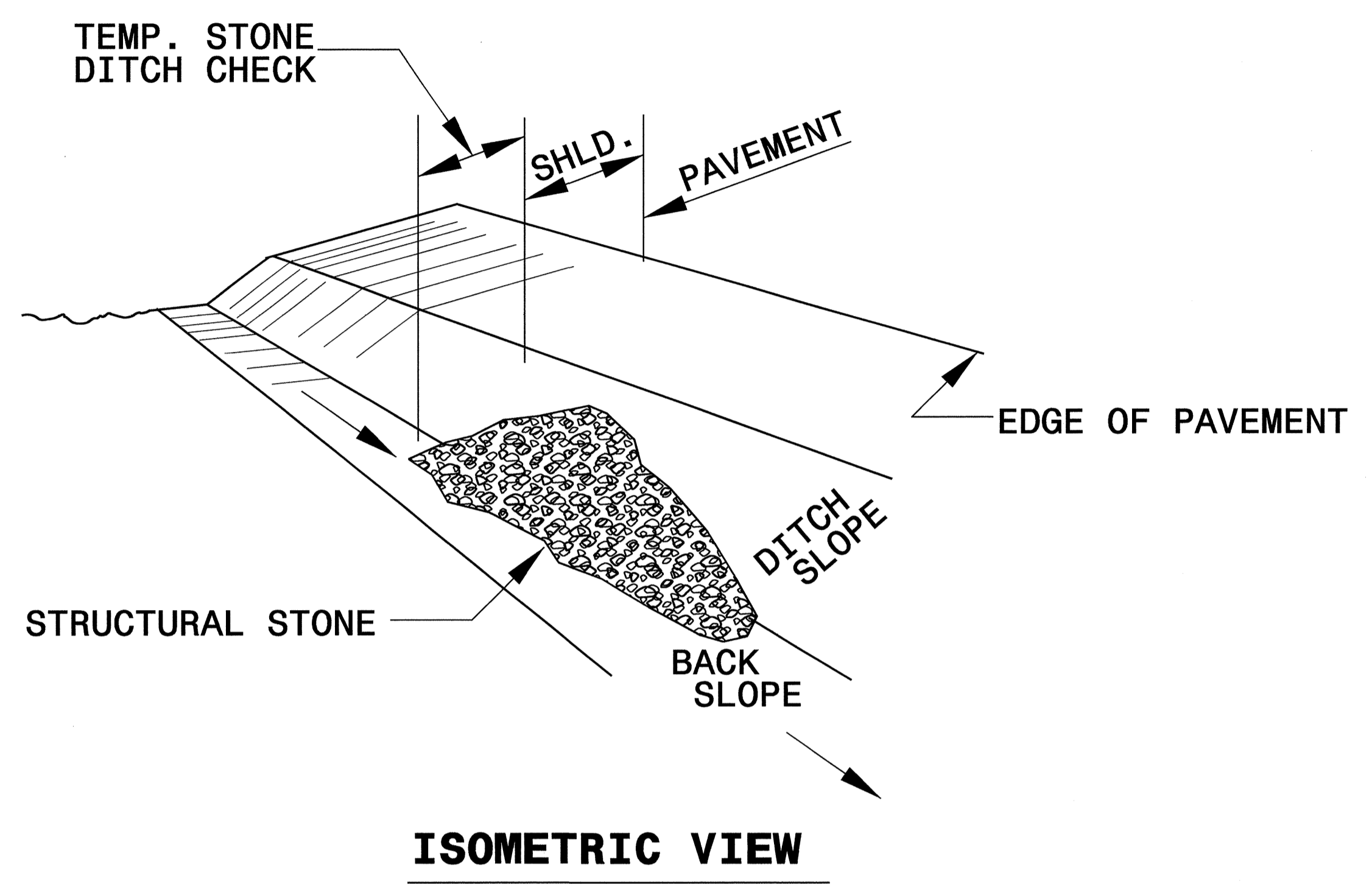
The following roadway english standards as appear in "Roadway Standard Drawings"- Roadway Design Unit - N. C. Department of Transportation - Raleigh, N. C., dated July 18, 2006 and the latest revision thereto are applicable to this project and by reference hereby are considered a part of these plans.

1605.01	Temporary Silt Fence	1632.03	Rock Inlet Sediment Trap Type C
1606.01	Special Sediment Control Fence	1633.01	Temporary Rock Silt Check Type A
1607.01	Gravel Construction Entrance	1634.01	Temporary Rock Sediment Dam Type A
1622.01	Temporary Berms and Slope Drains	1635.01	Rock Pipe Inlet Sediment Trap Type A
1630.05	Temporary Diversion	1635.02	Rock Pipe Inlet Sediment Trap Type B
1630.06	Special Stilling Basin		

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jg

PROJECT REFERENCE NO. <i>R-0061C</i>	SHEET NO. <i>EC-2</i>
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

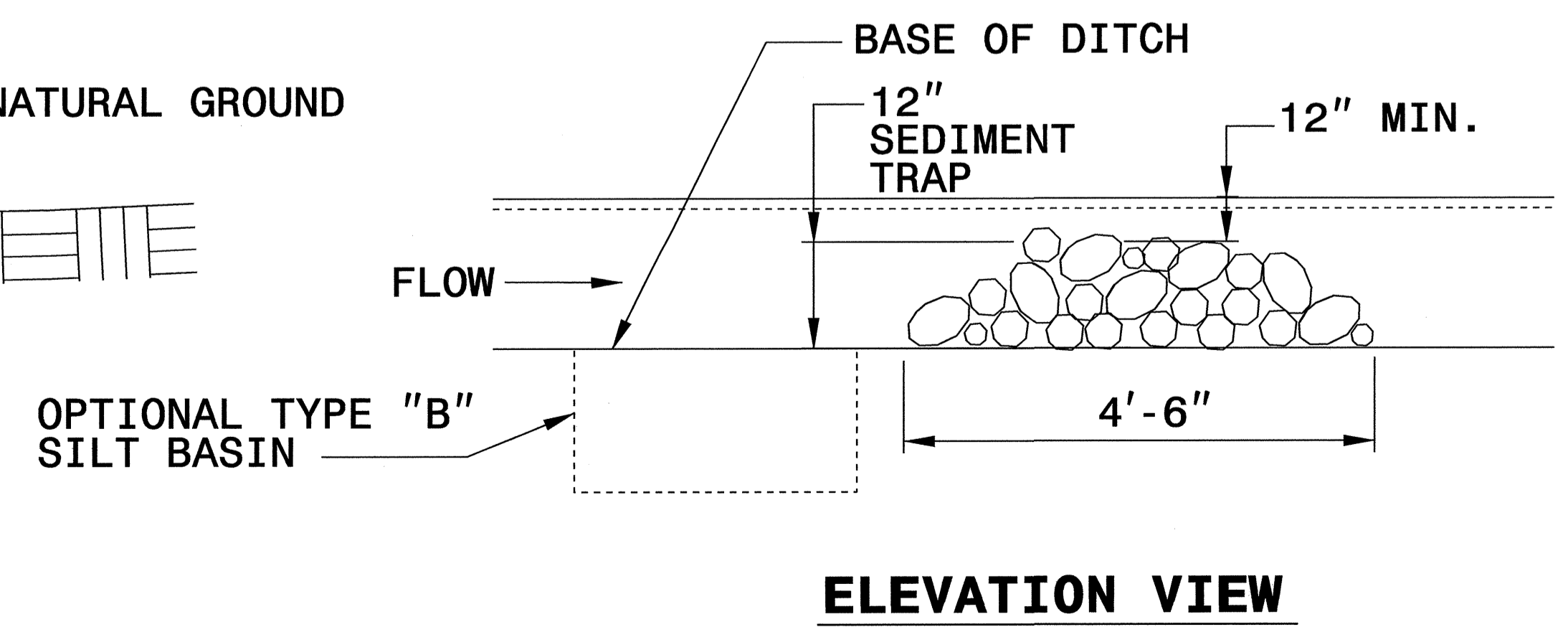
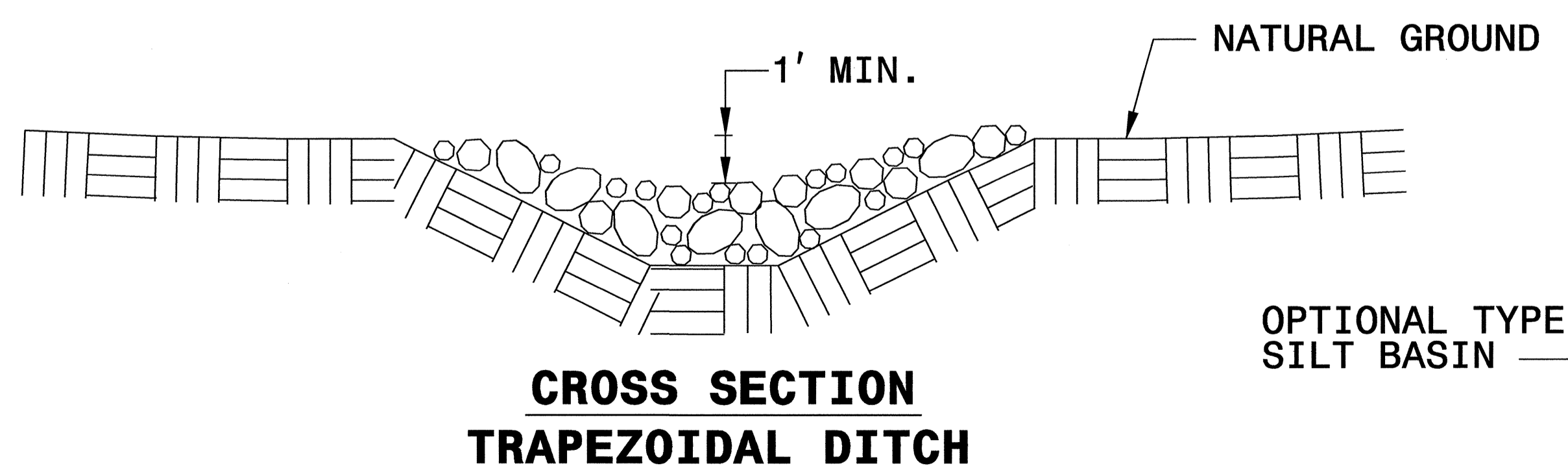
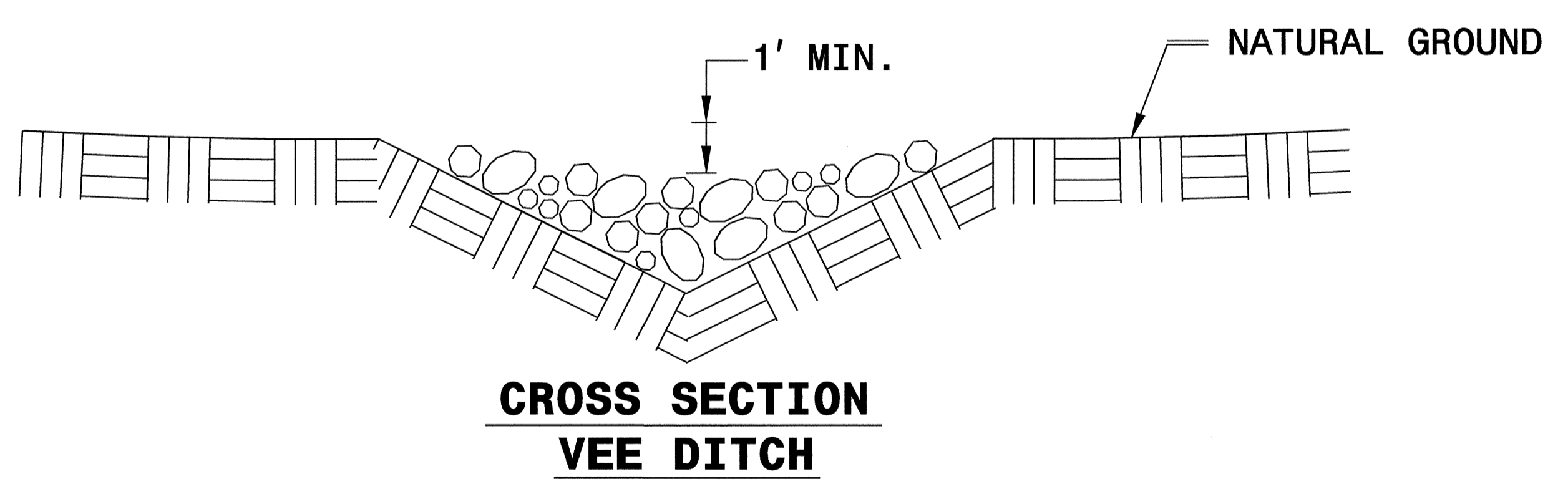
TEMPORARY ROCK SILT CHECK TYPE 'B' DETAIL



NOTES:

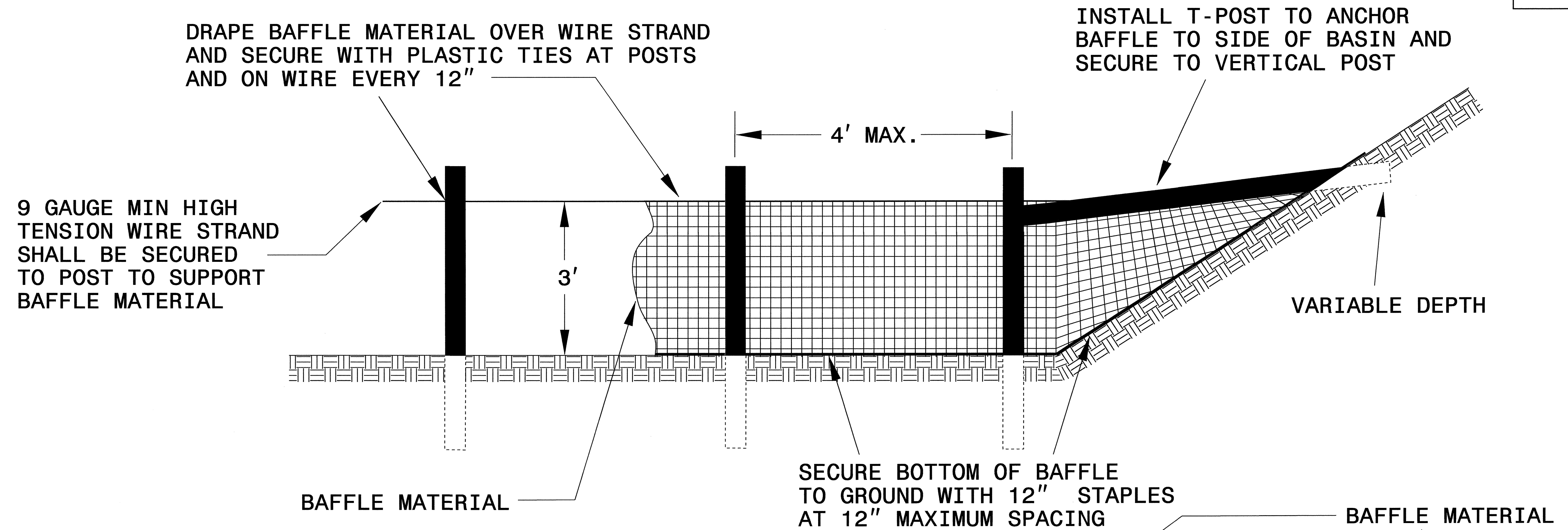
USE CLASS 'B' EROSION CONTROL STONE FOR STRUCTURAL STONE.

THE ENGINEER MAY DIRECT THE OPTION OF CLASS "A" STONE FOR SITES HAVING LESS THAN ONE (1) ACRE DRAINAGE AREA AND A DITCH GRADE LESS THAN 3%.



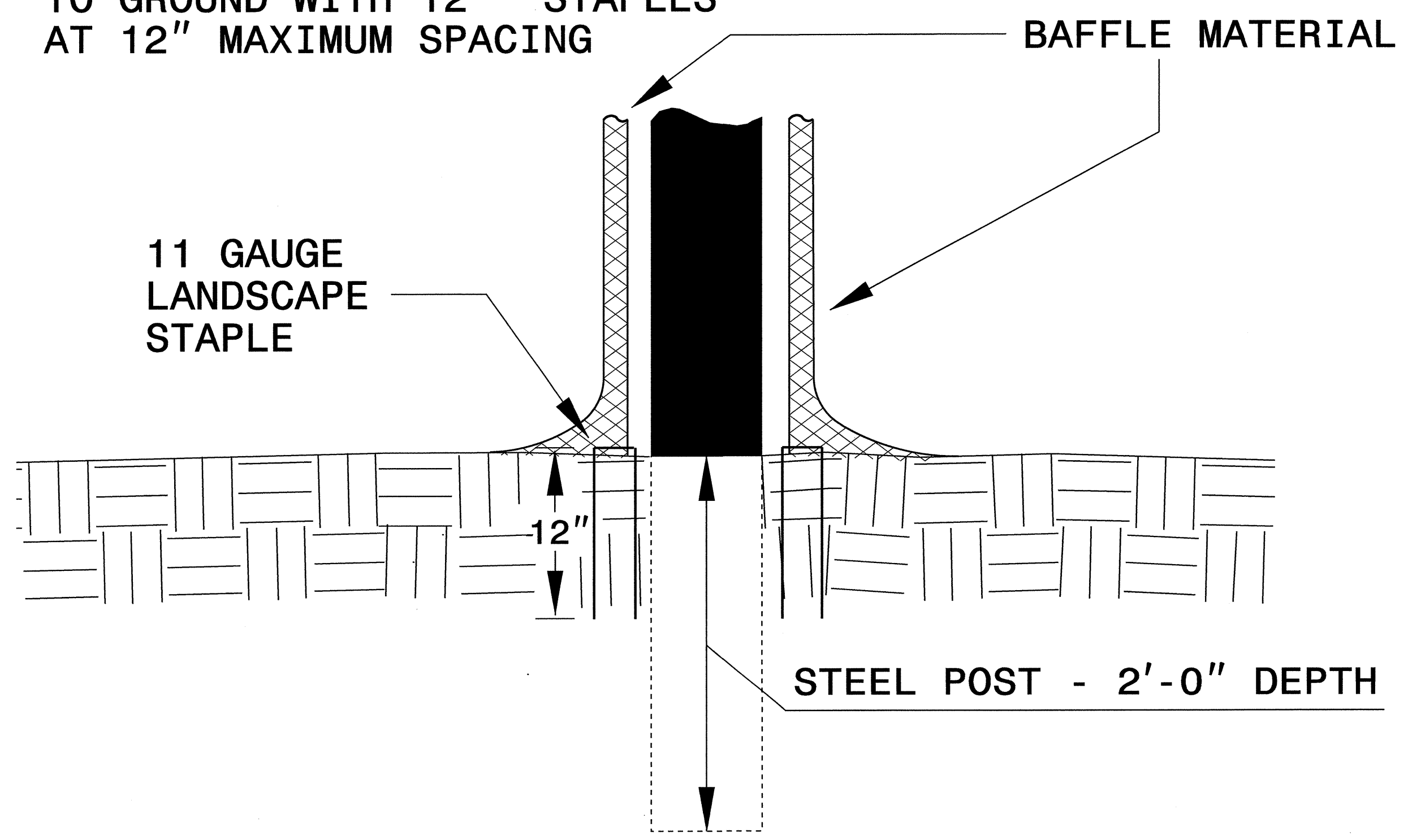
PROJECT REFERENCE NO. <i>R-0061C</i>	SHEET NO. <i>EC-2A</i>
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

COIR FIBER BAFFLE DETAIL



NOTES:

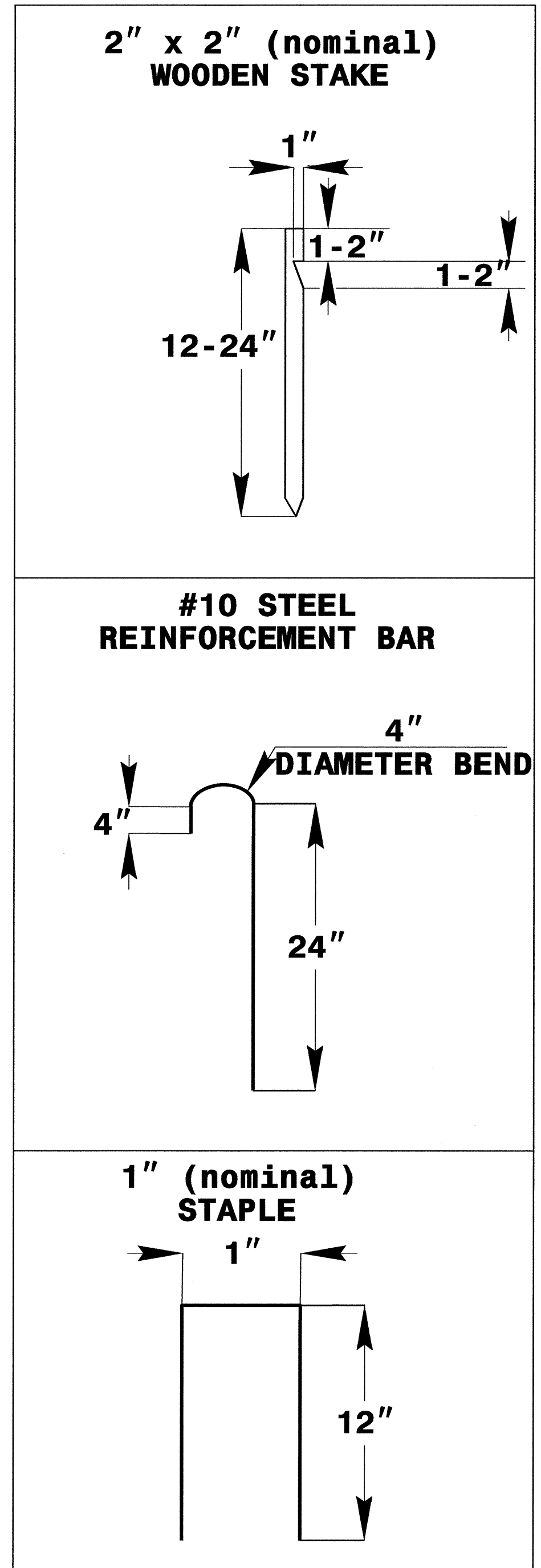
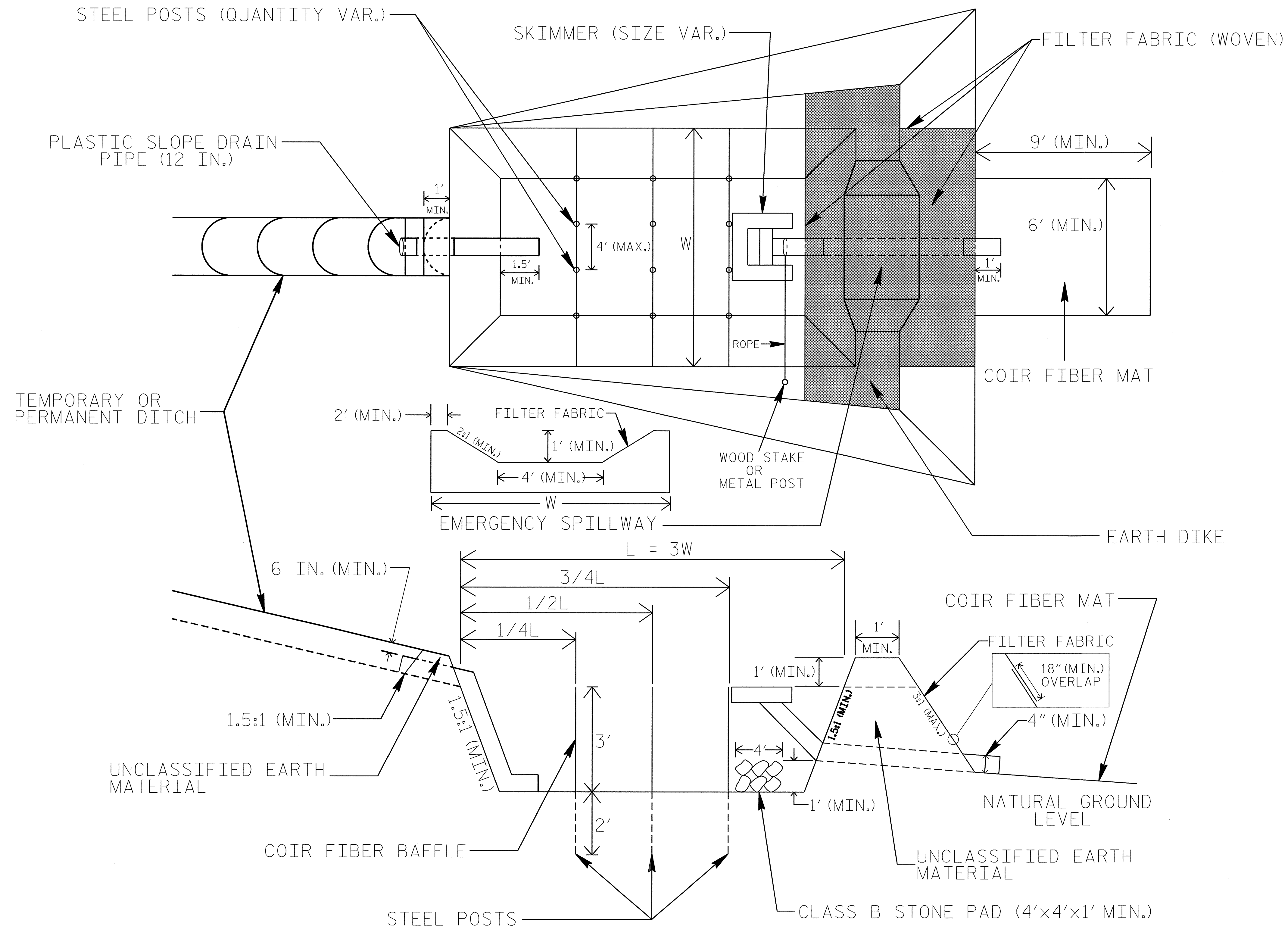
1. INSTALL THREE (3) COIR FIBER BAFFLES IN SILT BASINS AND SEDIMENT DAMS AT DRAINAGE OUTLETS WITH A SPACING OF $\frac{1}{4}$ THE BASIN LENGTH.
2. TWO (2) COIR FIBER BAFFLES CAN BE INSTALLED IN SILT BASINS AND DAMS LESS THAN 20 FT. IN LENGTH WITH A SPACING OF $\frac{1}{3}$ THE BASIN LENGTH.
3. TOP HEIGHT 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 12" LANDSCAPE STAPLES

SKIMMER BASIN WITH BAFFLES DETAIL

PROJECT REFERENCE NO. R-0061C	SHEET NO. EC-2B
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER



COIR FIBER MAT ANCHOR OPTIONS

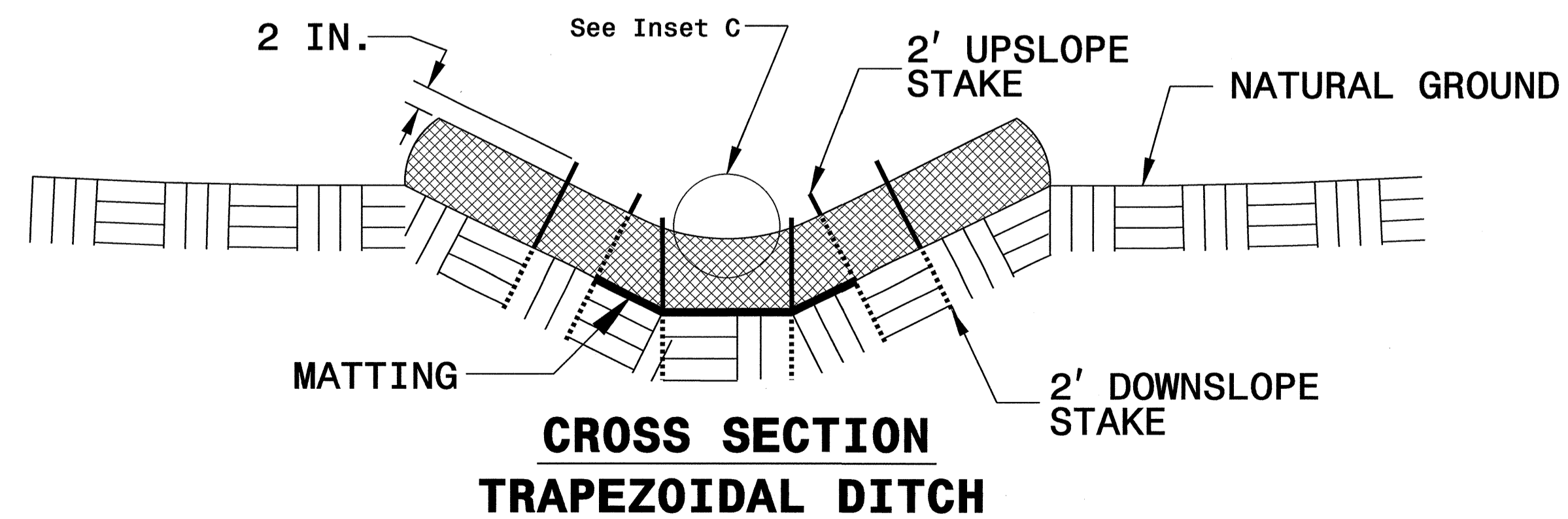
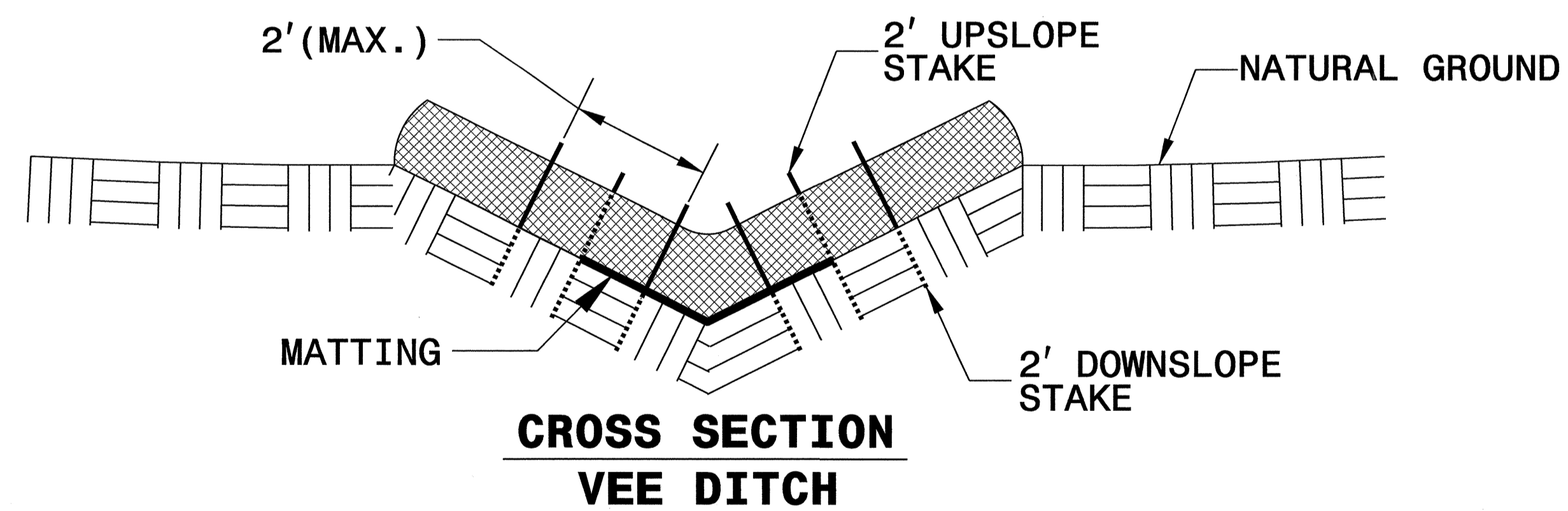
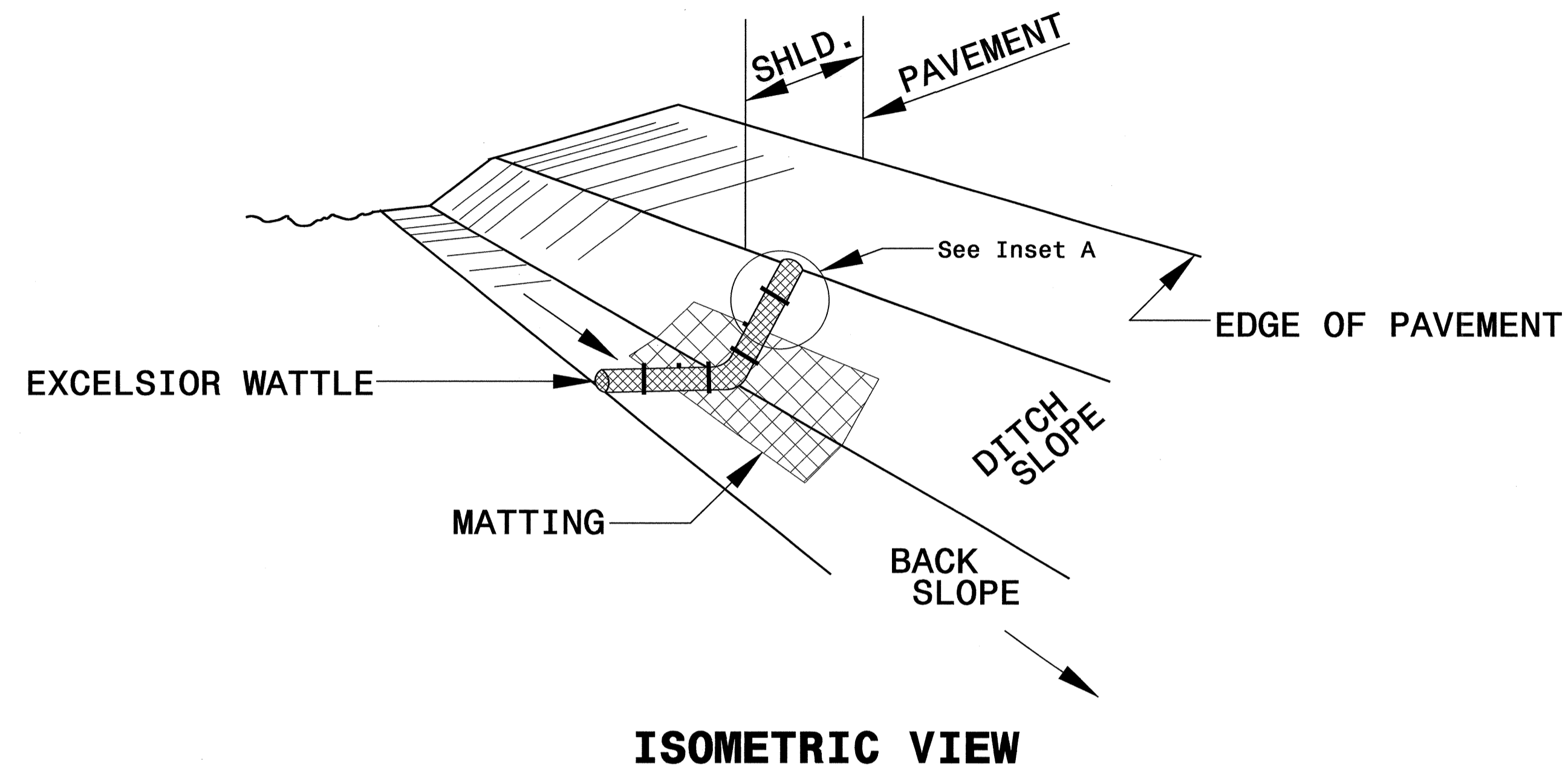
NOTES

1. SEED AND PLACE MATTING FOR EROSION CONTROL ON INTERIOR AND EXTERIOR SIDESLOPES.
2. LIMIT EARTH DIKE HEIGHT TO 5 FT.
3. FOR BASIN DEPTH OF 3 FT., THE MINIMUM BASIN WIDTH SHALL BE 9 FT.
4. DETERMINE EMERGENCY SPILLWAY LENGTH (FT.) USING $Q/0.8$, WHERE Q IS FLOW RATE (CFS) INTO BASIN.
5. PLASTIC SLOPE DRAIN PIPE AT INLET OF BASIN MAY BE REPLACED BY FILTER FABRIC AS DIRECTED.
6. FILTER FABRIC (WOVEN) FOR EMERGENCY SPILLWAY SHALL BE ONE CONTINUOUS PIECE OF MATERIAL OR OVERLAPPED 18" AS SHOWN.

NOT TO SCALE

PROJECT REFERENCE NO. R-0061C	SHEET NO. EC-2C
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

WATTLE WITH POLYACRYLAMIDE (PAM) DETAIL



NOTES:

USE MINIMUM 12 IN. DIAMETER EXCELSIOR WATTLE.

USE 2 FT. WOODEN STAKES WITH A 2 IN. BY 2 IN. 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.

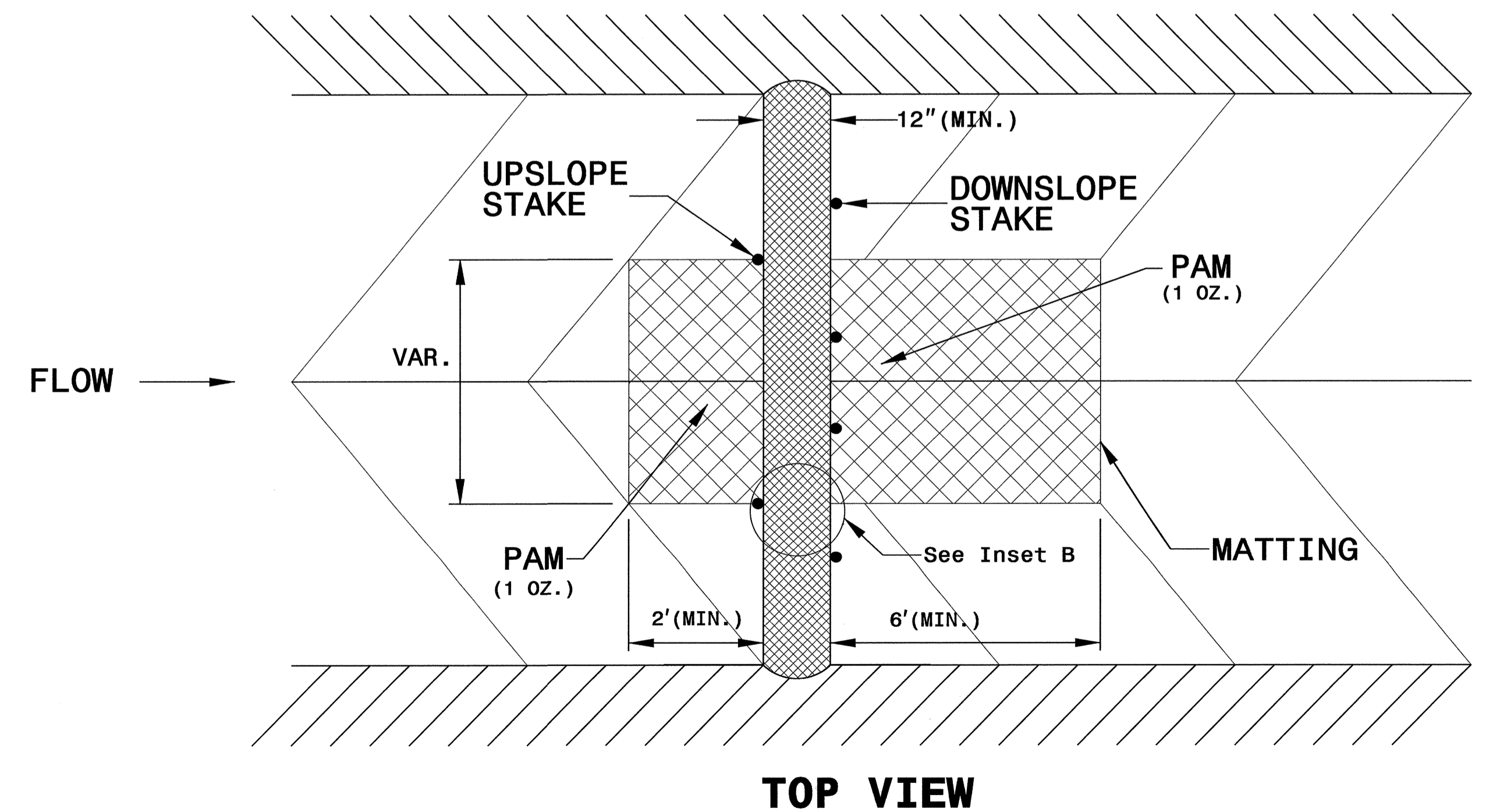
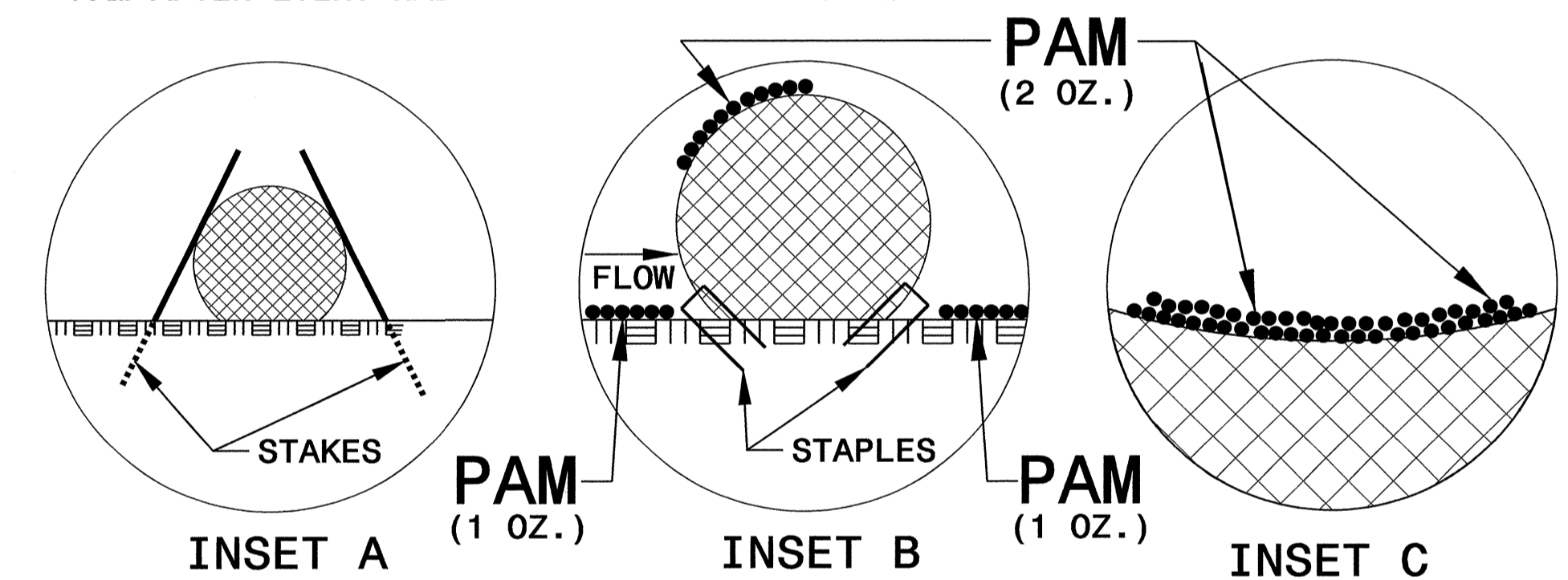
PROVIDE STAPLES MADE OF 0.125 IN. DIAMETER STEEL WIRE FORMED INTO A U SHAPE NOT LESS THAN 12" IN LENGTH.

INSTALL STAPLES APPROXIMATELY EVERY 1 LINEAR FOOT 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.

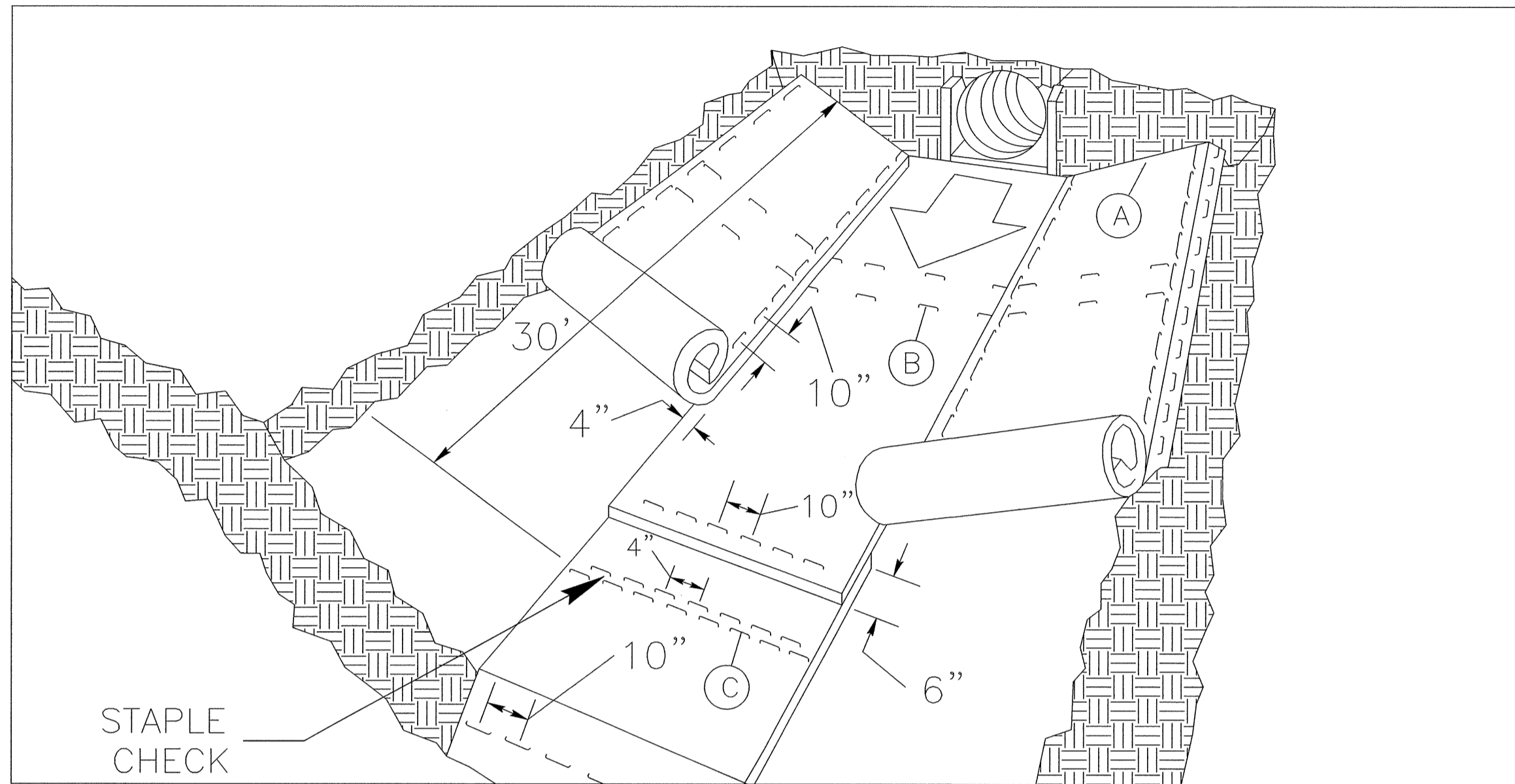
PRIOR TO POLYACRYLAMIDE (PAM) APPLICATION, OBTAIN A SOIL SAMPLE FROM PROJECT LOCATION, AND FROM OFFSITE MATERIAL, AND ANALYZE FOR APPROPRIATE PAM FLOCCULANT TO BE APPLIED TO EACH WATTLE.

INITIALLY APPLY 2 OUNCES OF ANIONIC OR NEUTRALLY CHARGED PAM OVER WATTLE WHERE WATER WILL FLOW AND 1 OUNCE OF PAM ON MATTING ON EACH SIDE OF WATTLE. REAPPLY PAM AFTER EVERY RAINFALL EVENT THAT IS EQUAL TO OR EXCEEDS 0.50 IN.



PROJECT REFERENCE NO. R-0061C	SHEET NO. EC-2D
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

MATTING INSTALLATION DETAIL



MATTING IN DITCHES

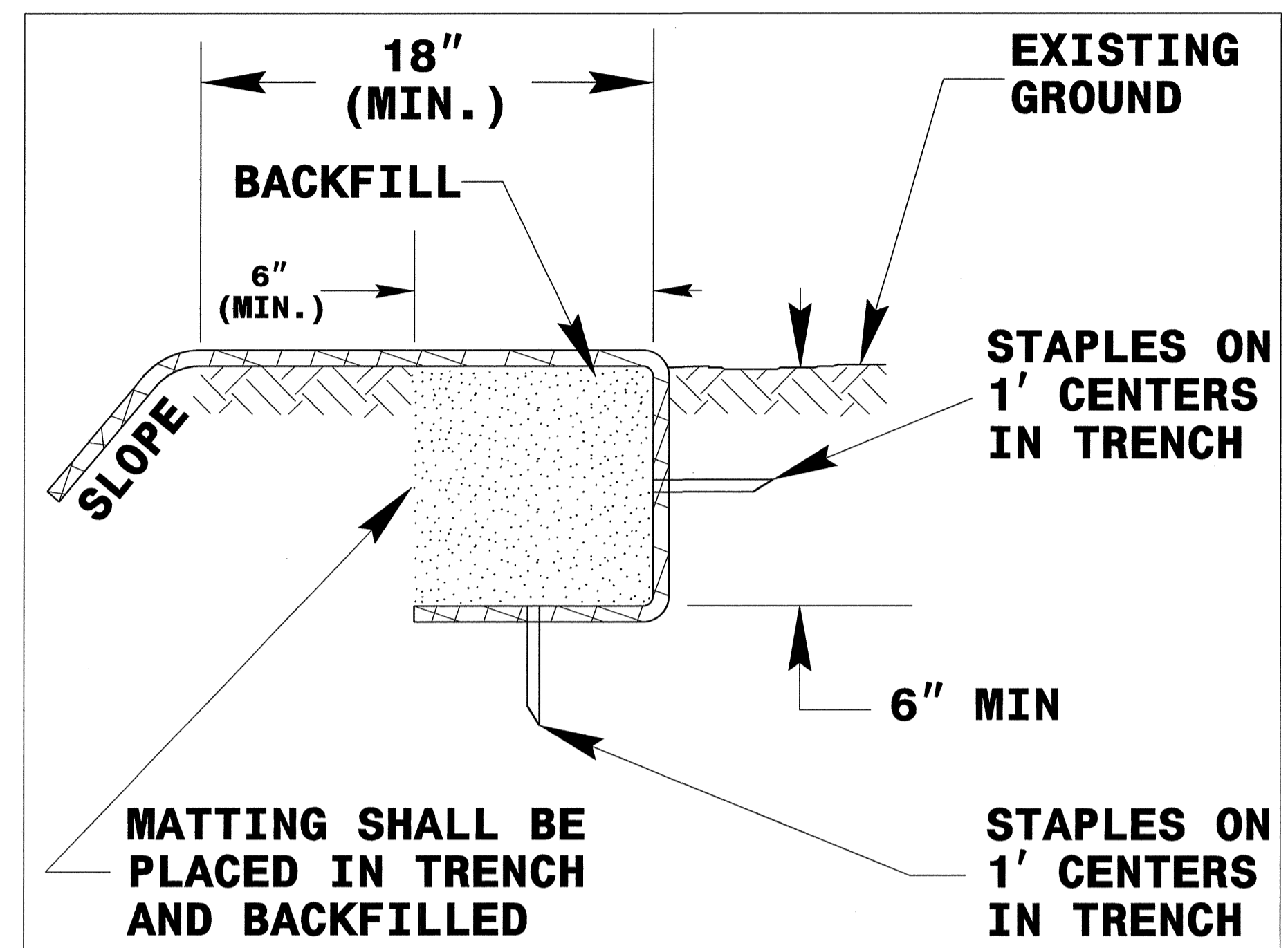
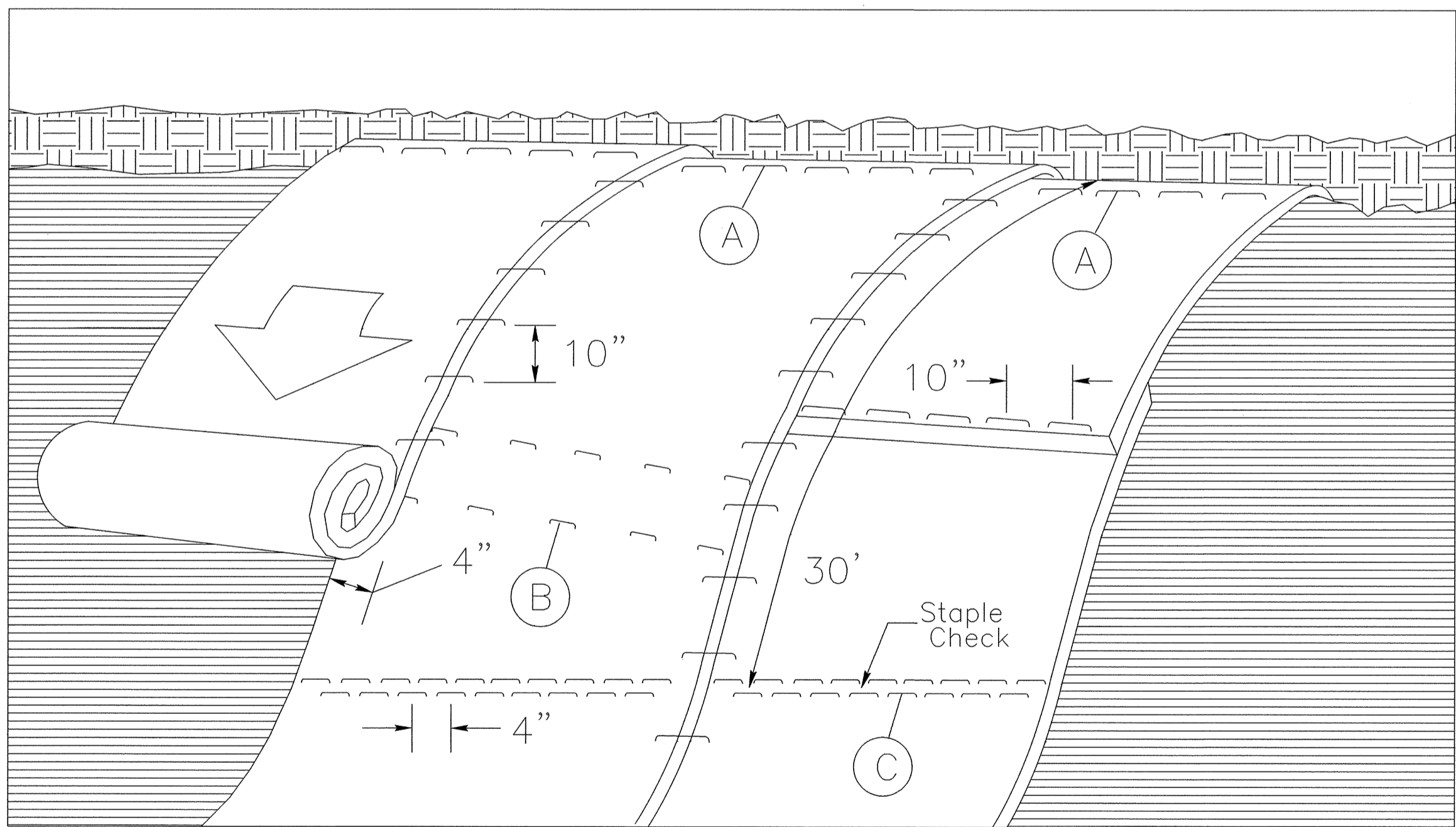


DIAGRAM (A)



MATTING ON SLOPES

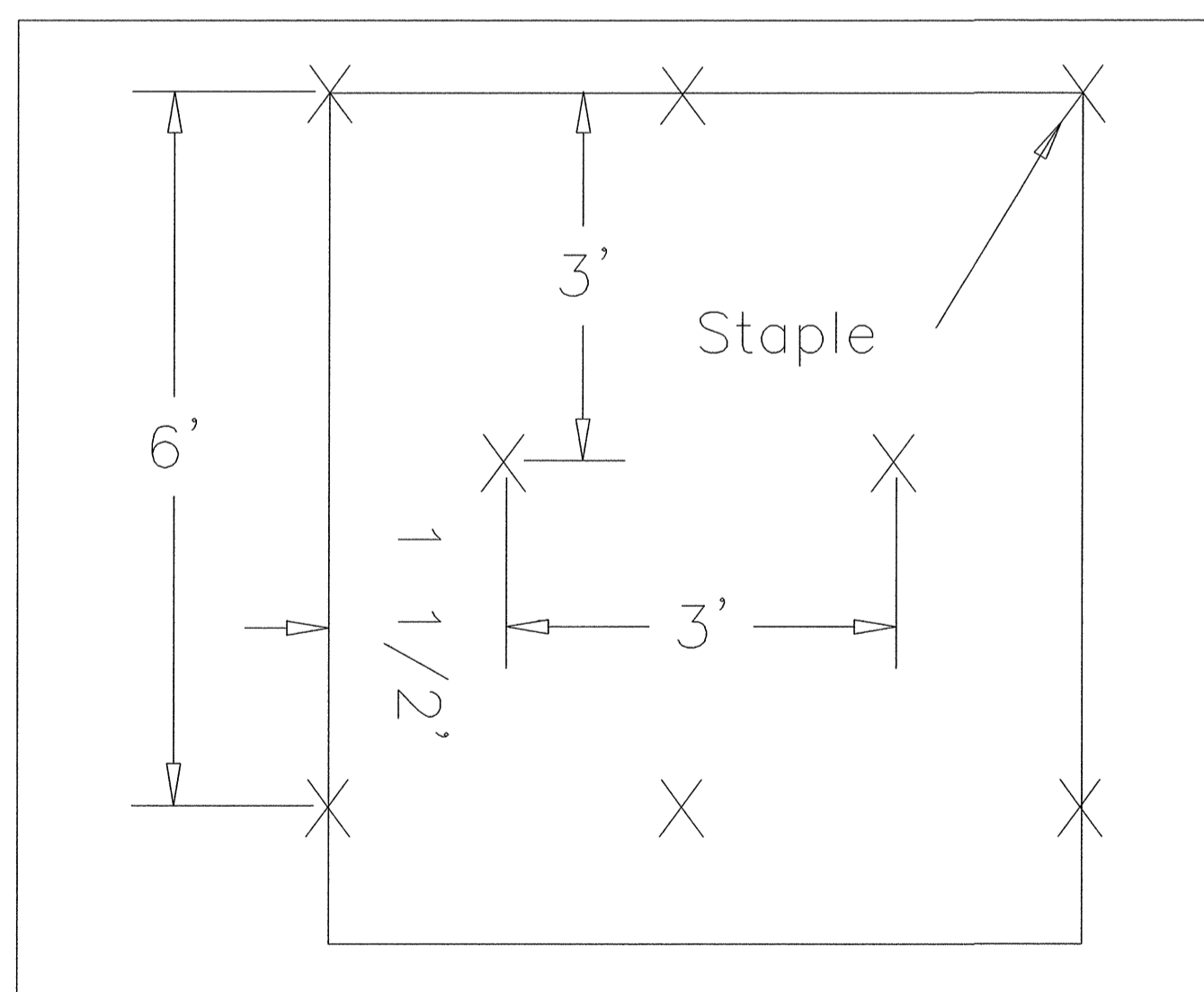


DIAGRAM (B)

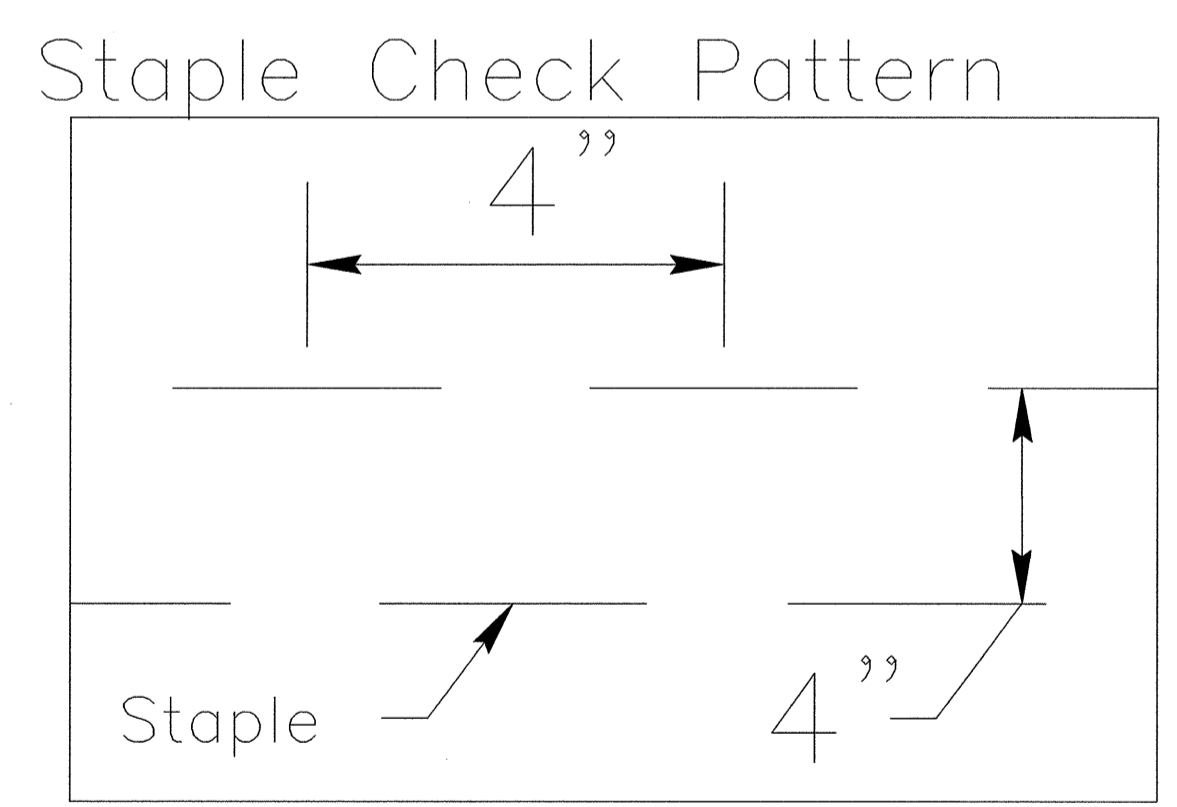


DIAGRAM (C)

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 1 INCH AND NOT LESS THAN 6 INCHES IN LENGTH.

NOT TO SCALE

BORROW PIT DEWATERING BASIN DETAIL

PROJECT REFERENCE NO. R-0061C	SHEET NO. EC-2E
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

GENERAL NOTES:

DETERMINE BORROW PIT DEWATERING BASIN SIZE USING $V = 8.0203 * Q * T$, WHERE V IS VOLUME (FT³), Q IS PUMP FLOW RATE (GPM), AND T IS DEWATERING TIME (HR). USE MAXIMUM FLOW RATE OF 1000 GPM AND A MINIMUM DEWATERING TIME OF 2 HOURS.

RISER SHALL BE A NON-PERFORATED, SMOOTH OR CORRUGATED MATERIAL WITH A FLASHBOARD OPTION.

CONSTRUCT THE COIR FIBER BAFFLE WITH A MATERIAL THAT MEETS THE SPECIFICATIONS OF THE COIR FIBER MAT SPECIAL PROVISION PROVIDED IN THE CONTRACT.

PROVIDE 5' STEEL POSTS OF THE SELF-FASTENER ANGLE STEEL TYPE. INSTALL STEEL POSTS WITH NO MORE THAN 3' 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 BASIN WITH 12" STAPLES.

INSTALL TYPE 2 FILTER FABRIC ON SIDESLOPES AND BOTTOM OF BASIN AT INLET AS SHOWN IN THE DETAIL.

USE THE TYPICAL SECTION SHOWN FOR THE BORROW PIT DEWATERING BASIN AS A GUIDE. THE BASIN MAY HAVE ANY TYPE CONFIGURATION AS LONG AS SUFFICIENT VOLUME IS PROVIDED AND PROVISIONS ARE MADE FOR A NON-PERFORATED RISER.

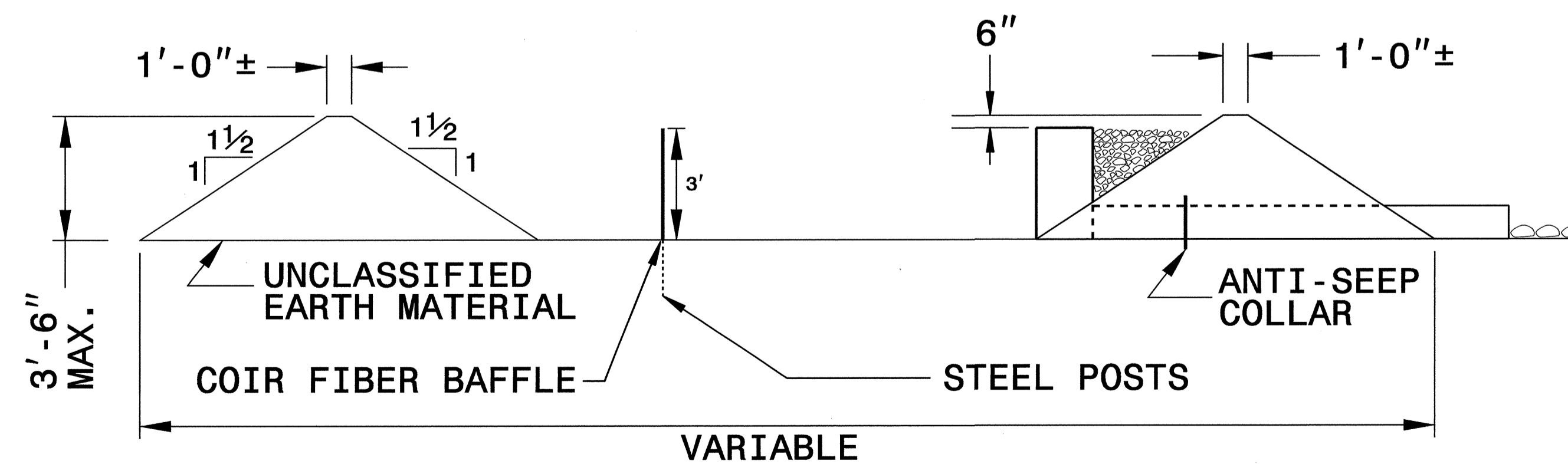
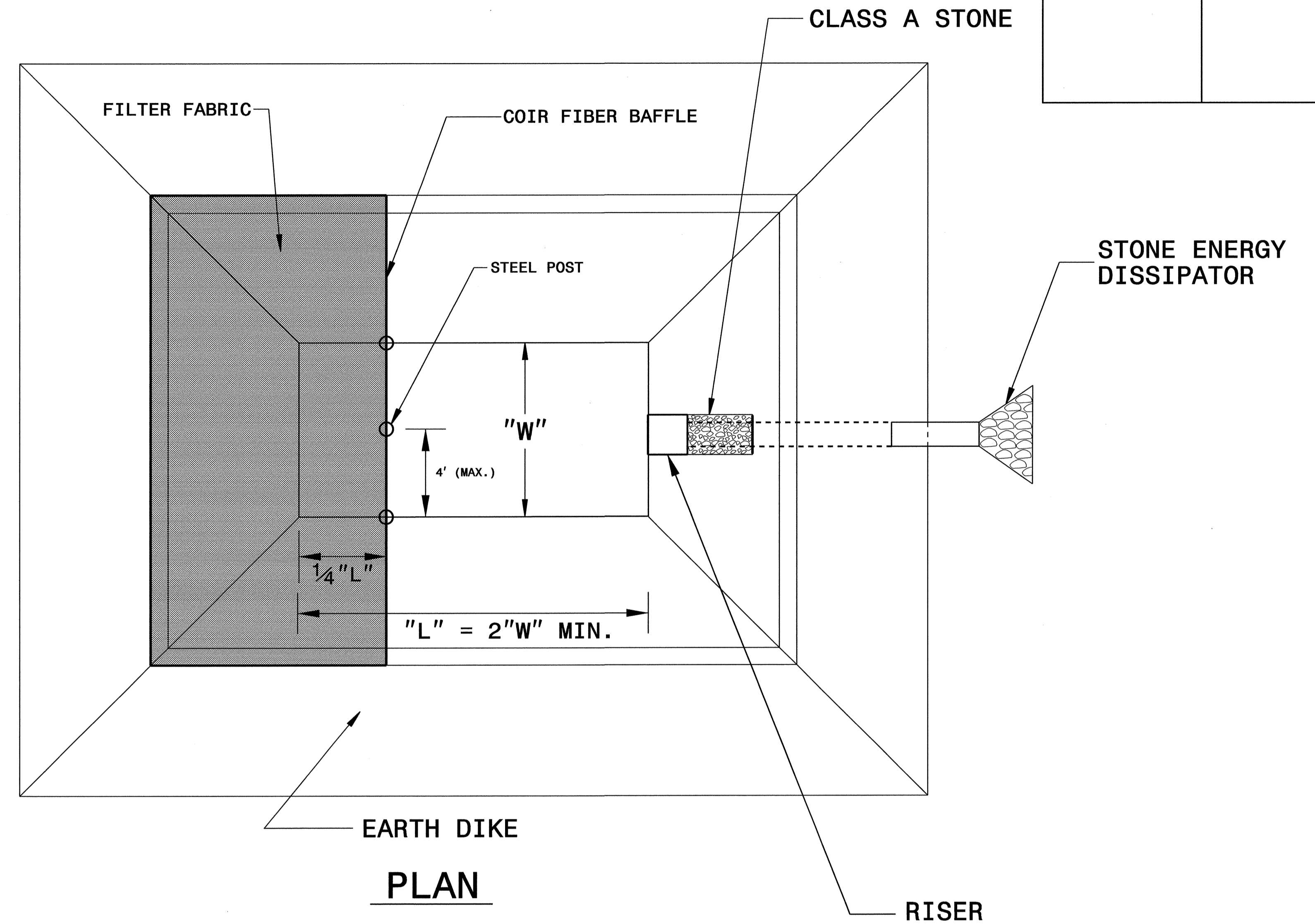
DO NOT EXCEED 3½ FT. IN HEIGHT FOR THE EARTH DIKES REQUIRED FOR BORROW PIT DEWATERING BASIN.

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

SUBMIT THE SIZE, LOCATION AND RISER PIPE MATERIAL FOR APPROVAL PRIOR TO CONSTRUCTION.

PUMP THE EFFLUENT INTO THE BORROW PIT DEWATERING BASIN TO A MAXIMUM DEPTH OF 6 IN. BELOW TOP OF EARTH DIKE.

PROVIDE A STONE ENERGY DISSIPATOR PAD AT THE OUTLET OF THE PUMP DISCHARGE HOSE AND OUTLET OF THE RISER BARREL IN ACCORDANCE WITH ROADWAY STANDARD DRAWING 876.02 FOR OUTLET W/O DITCH.



TYPICAL SECTION VIEW

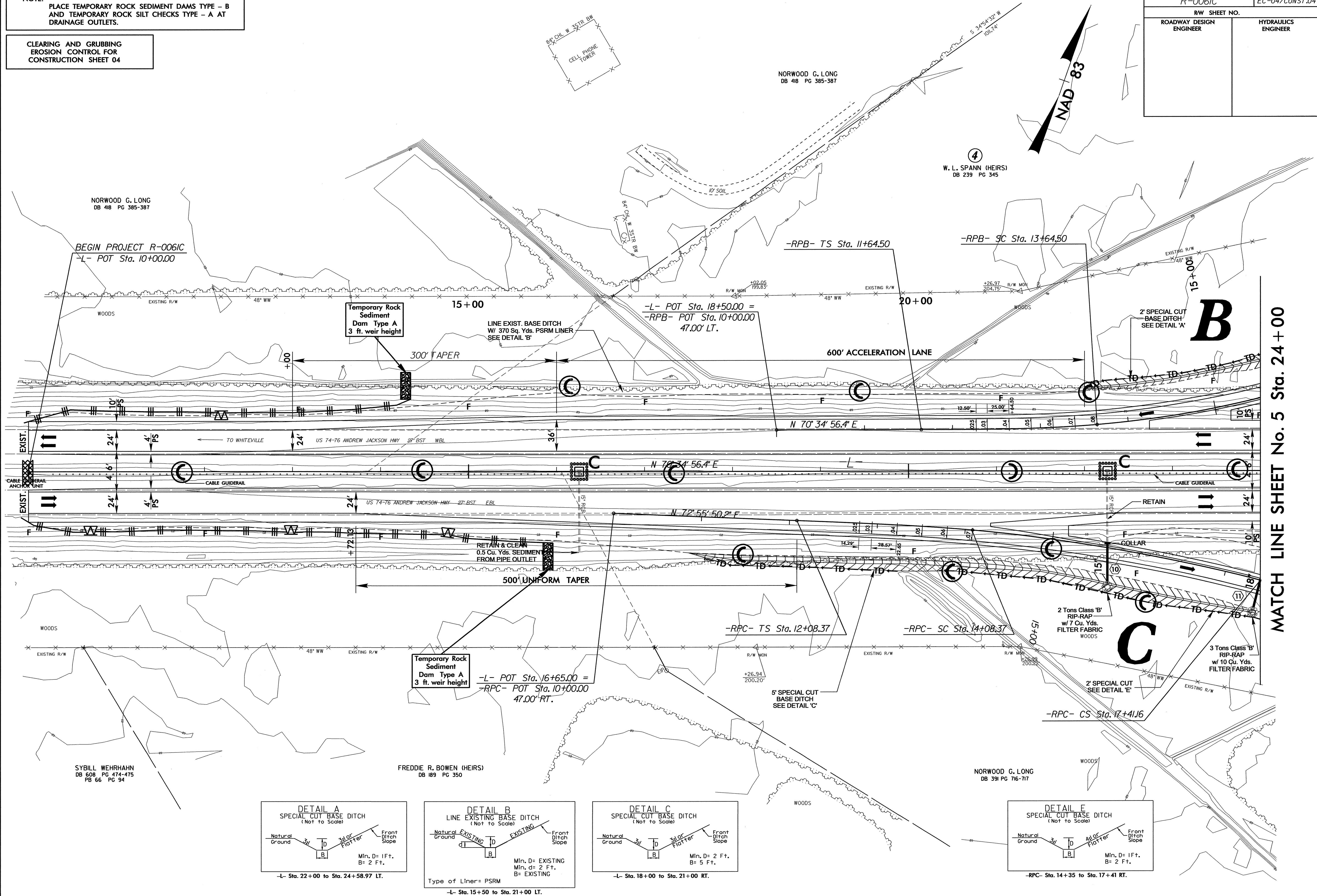
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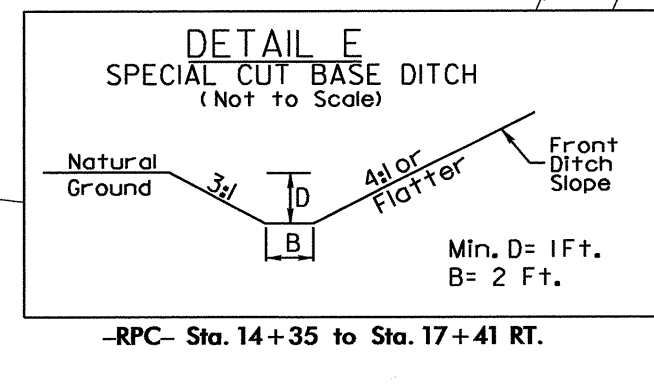
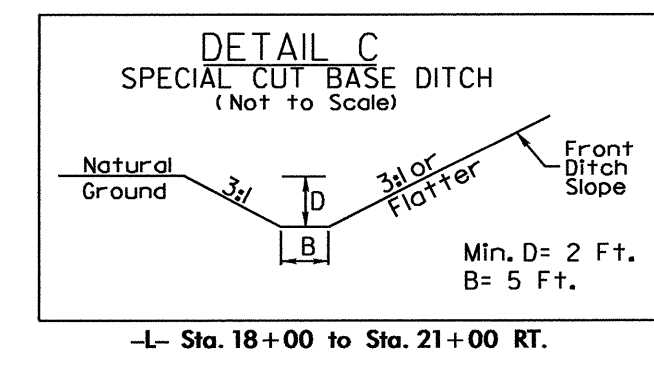
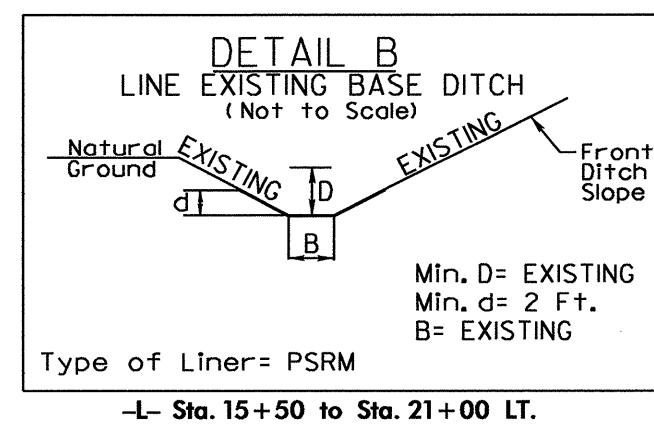
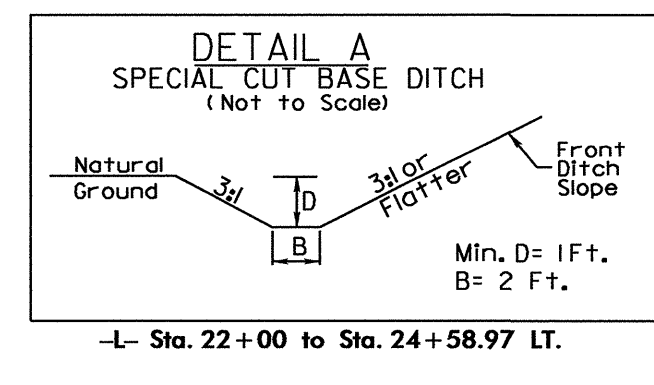
NOTE:
PLACE TEMPORARY ROCK SEDIMENT DAMS TYPE - B
AND TEMPORARY ROCK SILT CHECKS TYPE - A AT
DRAINAGE OUTLETS.

CLEARING AND GRUBBING
EROSION CONTROL FOR
CONSTRUCTION SHEET 04

PROJECT REFERENCE NO. R-0061C	SHEET NO. EC-04/CONST.04
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER



MATCH LINE SHEET No. 5 Sta. 24+00



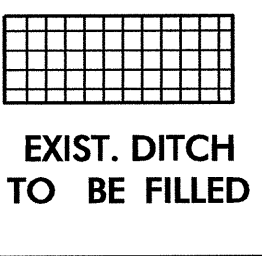
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8/17/99

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

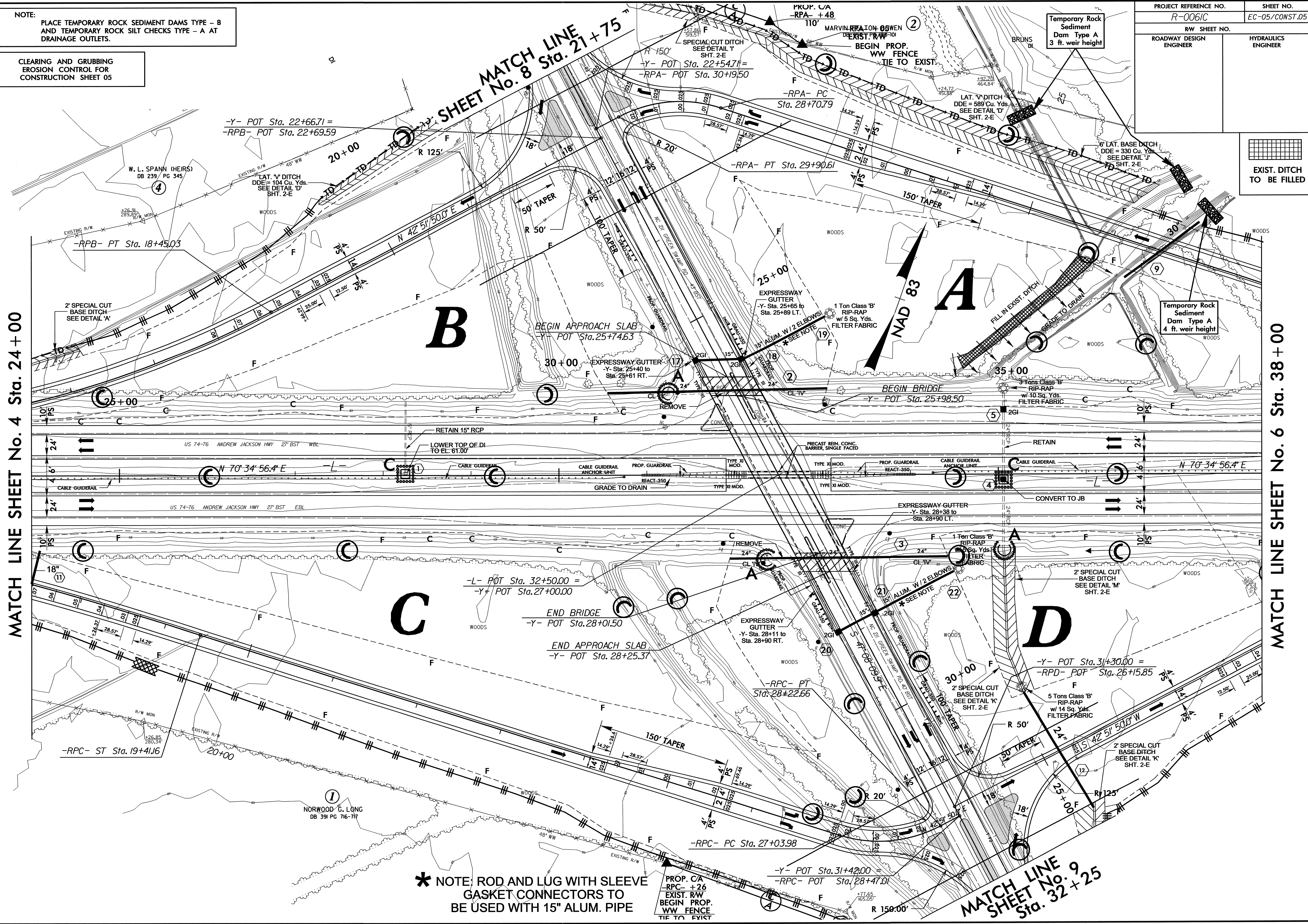
CLEARING AND GRUBBING EROSION CONTROL FOR CONSTRUCTION SHEET 05

PROJECT REFERENCE NO. R-0061C	SHEET NO. EC-05/CONST.05
R/W SHEET NO.	HYDRAULICS ENGINEER
ROADWAY DESIGN ENGINEER	



MATCH LINE SHEET No. 4 Sta. 24+00

MATCH LINE SHEET No. 6 Sta. 38+00



* NOTE: ROD AND LUG WITH SLEEVE GASKET CONNECTORS TO BE USED WITH 15" ALUM. PIPE

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8/17/99

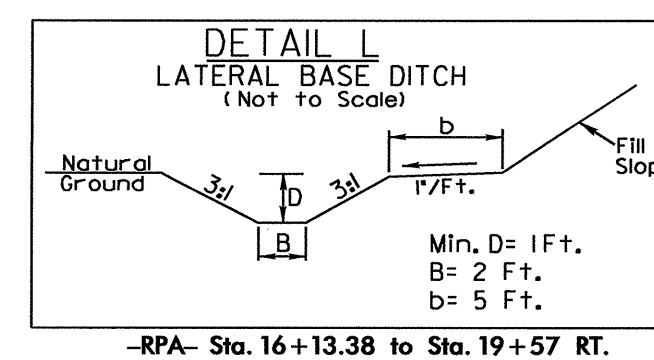
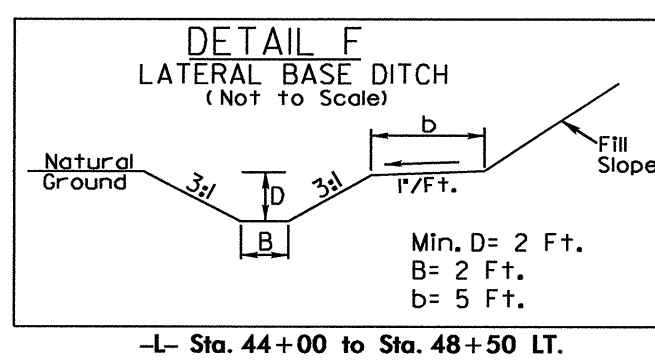
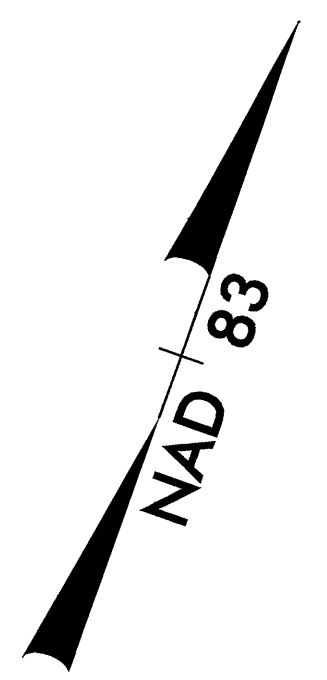
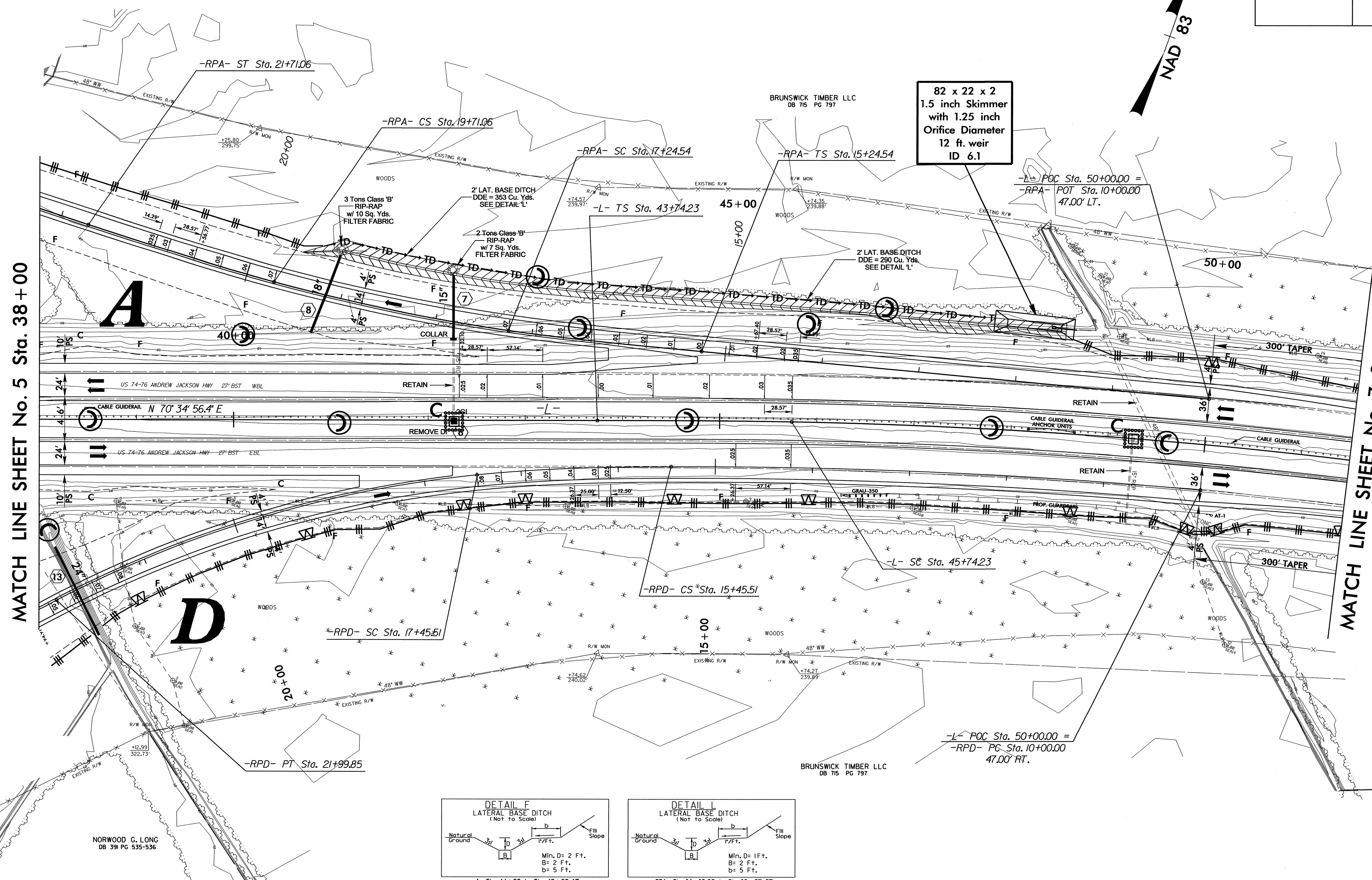
NOTE: PLACE TEMPORARY ROCK SEDIMENT DAMS TYPE - B AND TEMPORARY ROCK SILT CHECKS TYPE - A AT DRAINAGE OUTLETS.

CLEARING AND GRUBBING EROSION CONTROL FOR CONSTRUCTION SHEET 06

PROJECT REFERENCE NO. R-0061C	SHEET NO. EC-06/CONST.06
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

MATCH LINE SHEET No. 5 Sta. 38+00

MATCH LINE SHEET No. 7 Sta. 51+50



NORWOOD G. LONG
DB 391 PG 535-536

BRUNSWICK TIMBER LLC
DB 715 PG 797

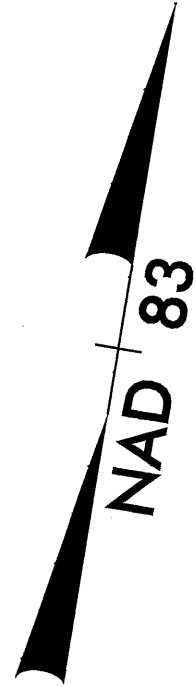
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8/17/99

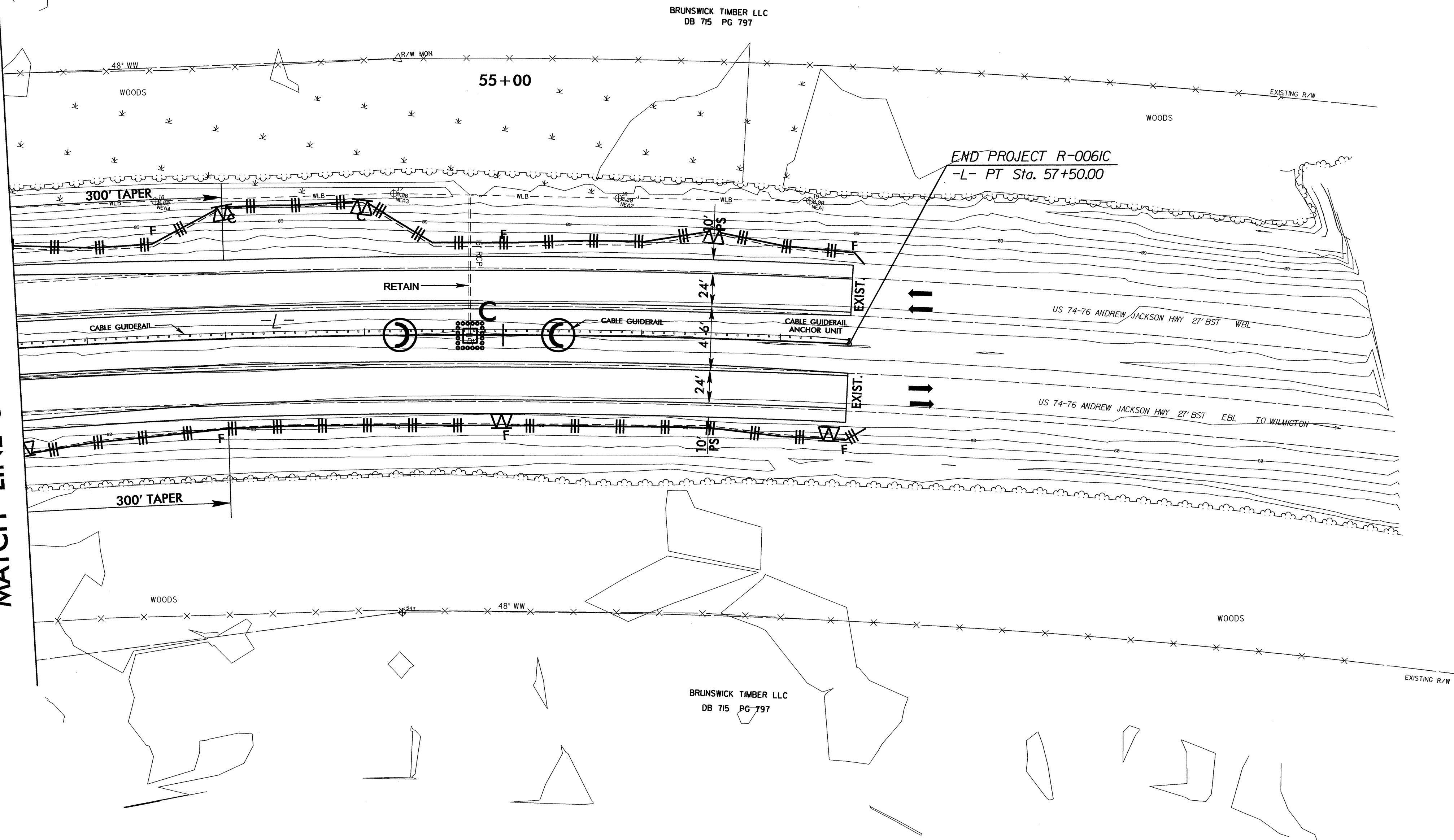
NOTE:
PLACE TEMPORARY ROCK SEDIMENT DAMS TYPE - B
AND TEMPORARY ROCK SILT CHECKS TYPE - A AT
DRAINAGE OUTLETS.

CLEARING AND GRUBBING
EROSION CONTROL FOR
CONSTRUCTION SHEET 07

PROJECT REFERENCE NO. <i>R-0061C</i>	SHEET NO. <i>EC-07/CONST.07</i>
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER



MATCH LINE SHEET No. 6 Sta. 51+50



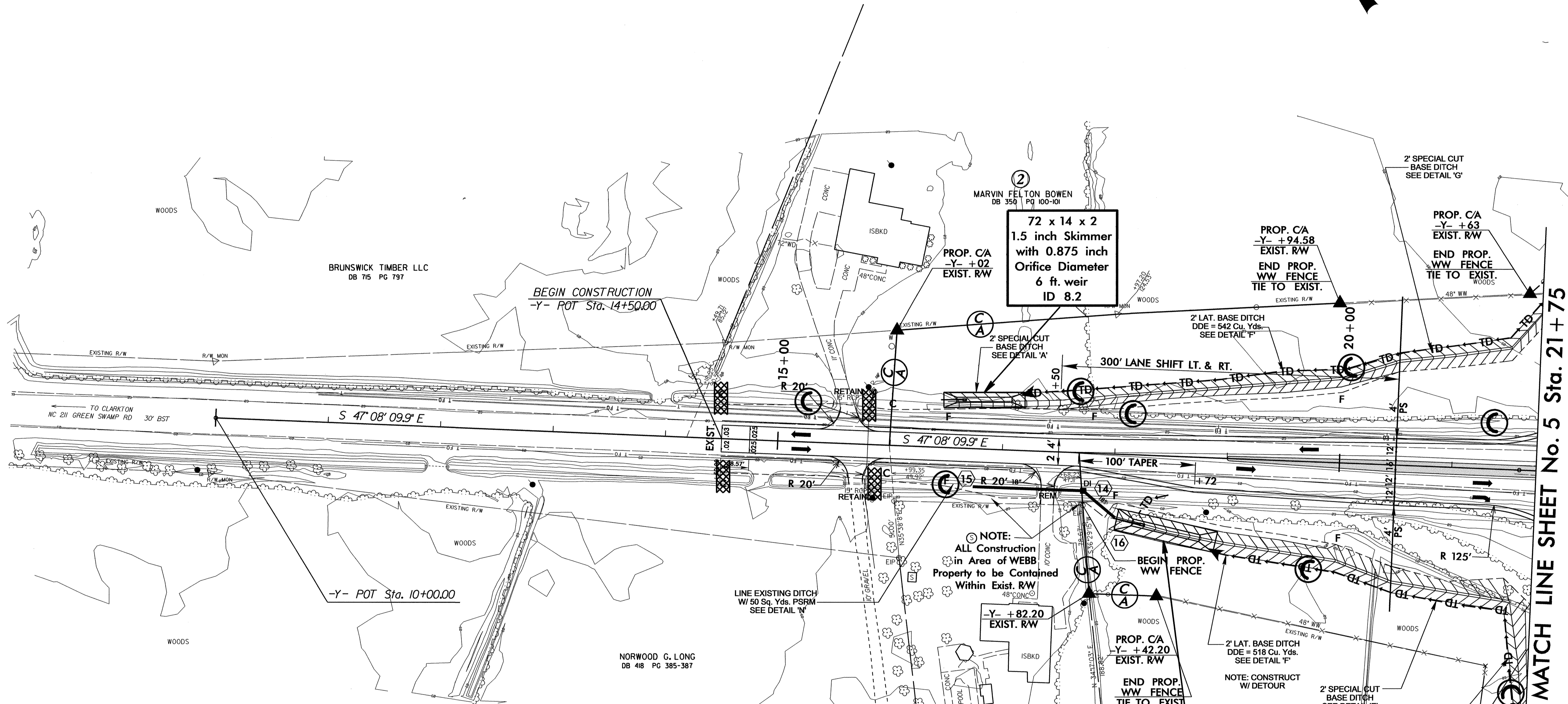
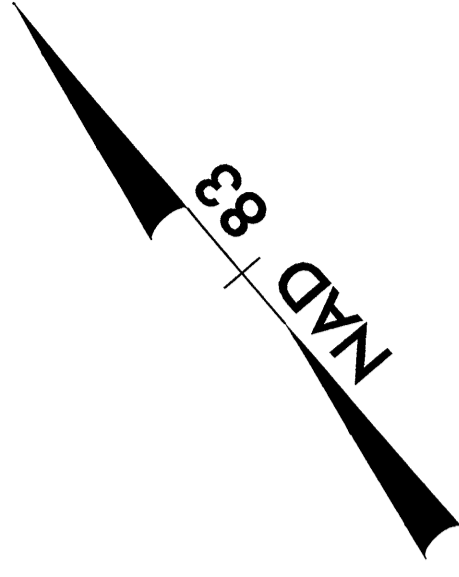
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8/17/99

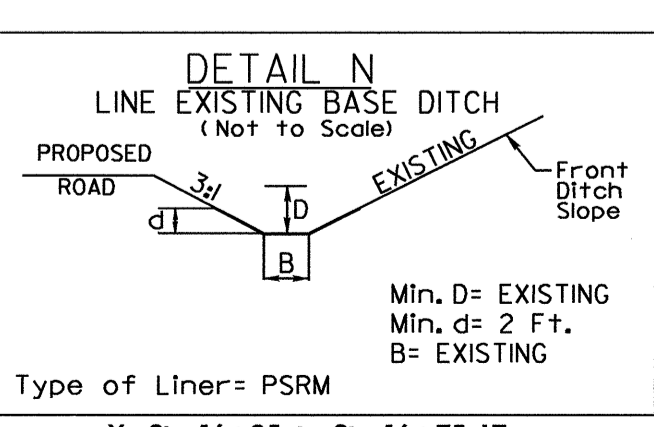
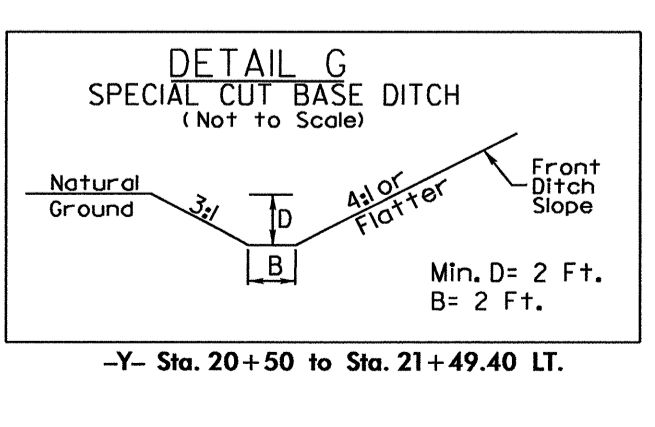
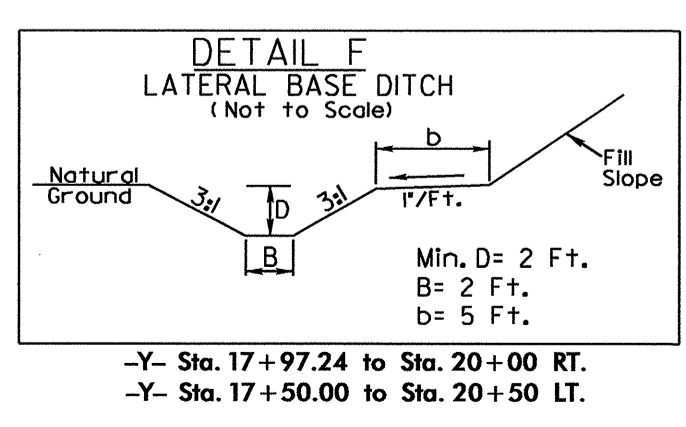
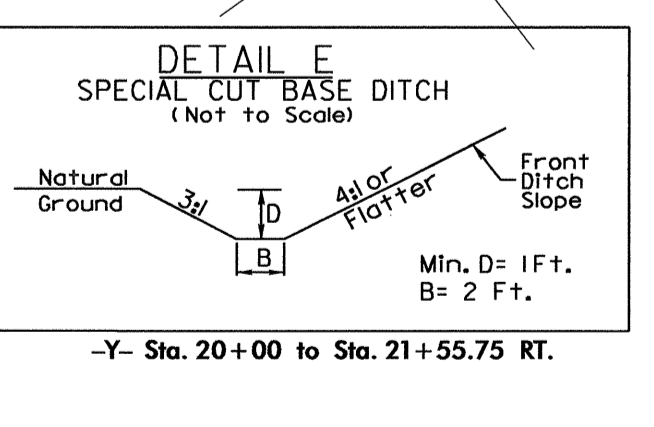
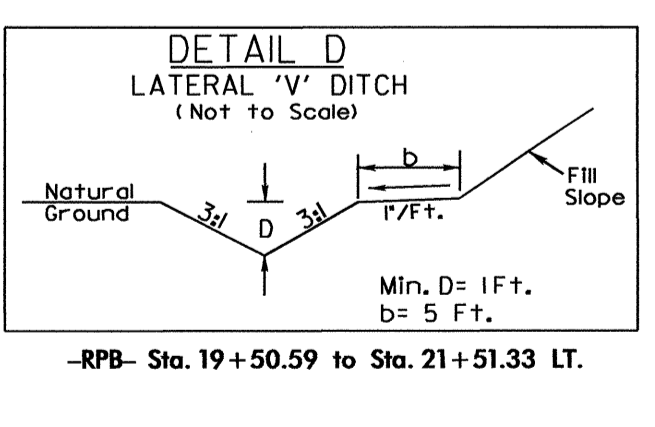
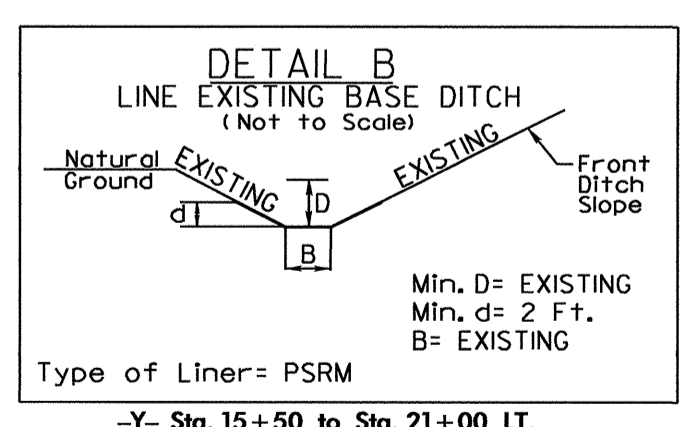
NOTE: PLACE TEMPORARY ROCK SEDIMENT DAMS TYPE - B AND TEMPORARY ROCK SILT CHECKS TYPE - A AT DRAINAGE OUTLETS.

CLEARING AND GRUBBING EROSION CONTROL FOR CONSTRUCTION SHEET 08

PROJECT REFERENCE NO. R-0061C	SHEET NO. EC-08/CONST.08
R/W SHEET NO.	HYDRAULICS ENGINEER
ROADWAY DESIGN ENGINEER	



MATCH LINE SHEET No. 5 Sta. 21+75



72 x 14 x 2
1.5 inch Skimmer
with 0.875 inch
Orifice Diameter
6 ft. weir
ID 8.2

90 x 19 x 2
1.5 inch Skimmer
with 1.25 inch
Orifice Diameter
11 ft. weir
ID 8.1

NOTE:
ALL Construction
in Area of WEBB
Property to be Contained
Within Exist. R/W

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17/07/2010

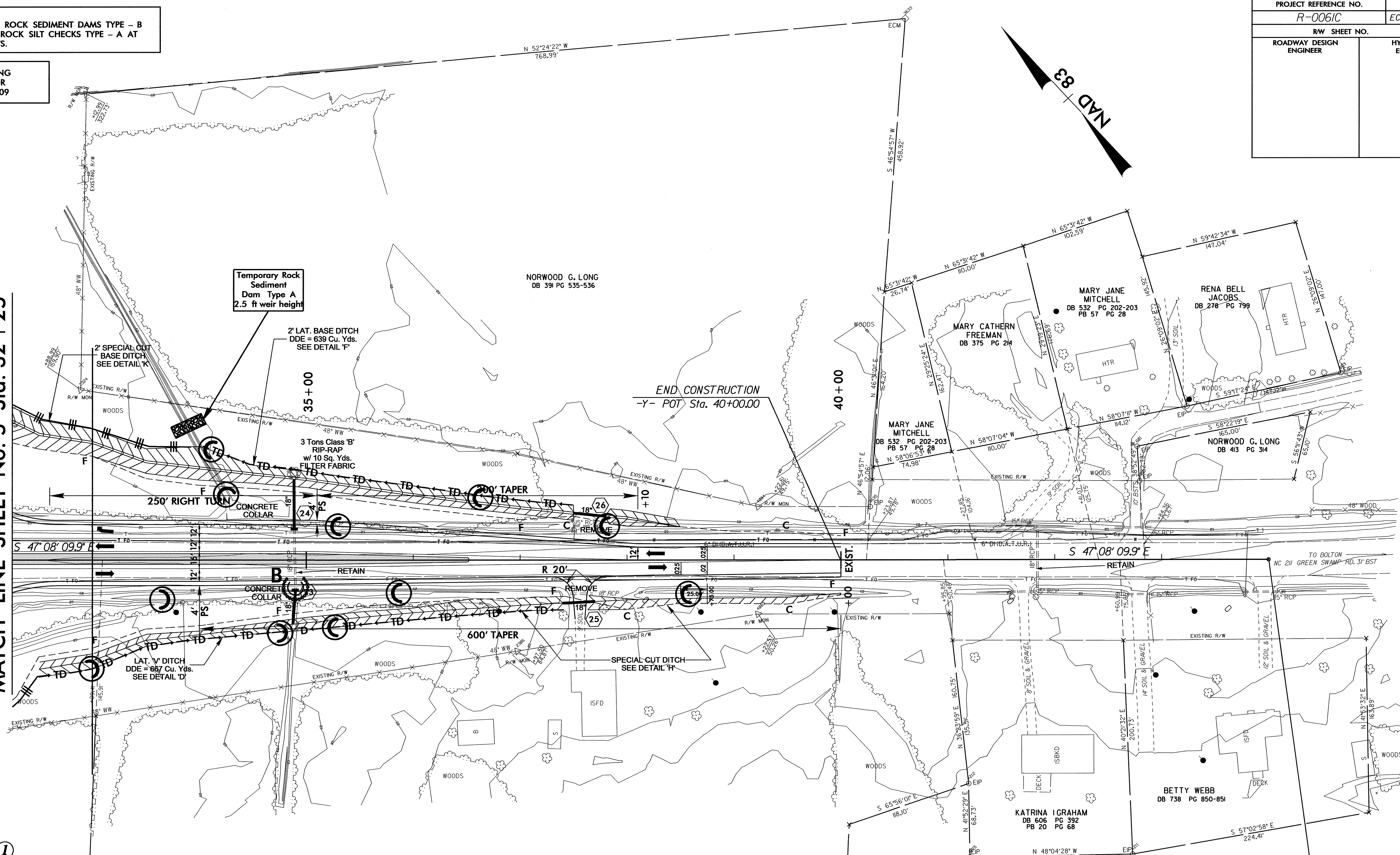
8/17/99

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 09

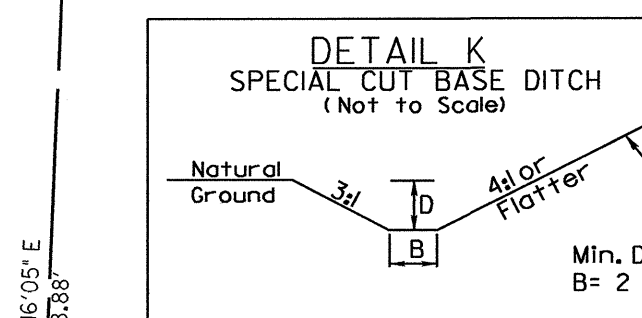
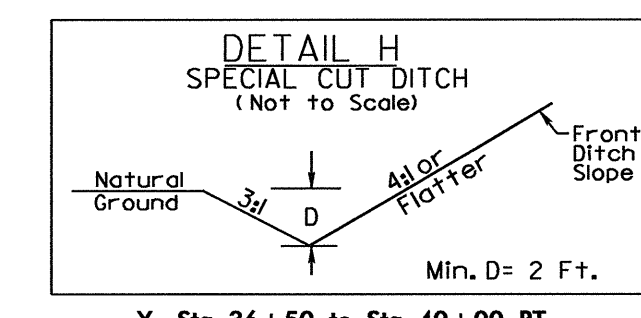
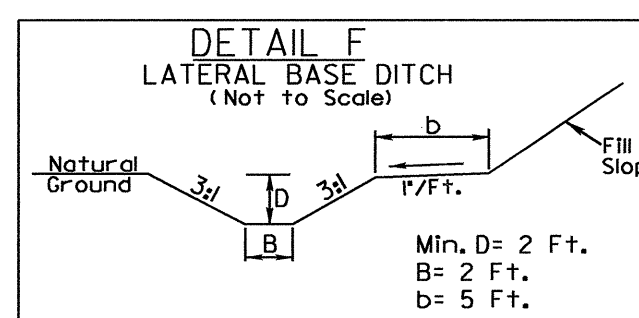
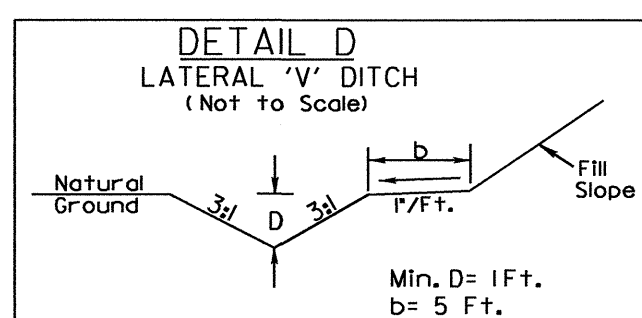
PROJECT REFERENCE NO.	SHEET NO.
R-0061C	EC-09/CONST.09
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

MATCH LINE SHEET No. 5 Sta. 32 + 25



NORWOOD G. LONG DB 391 PG 716-717

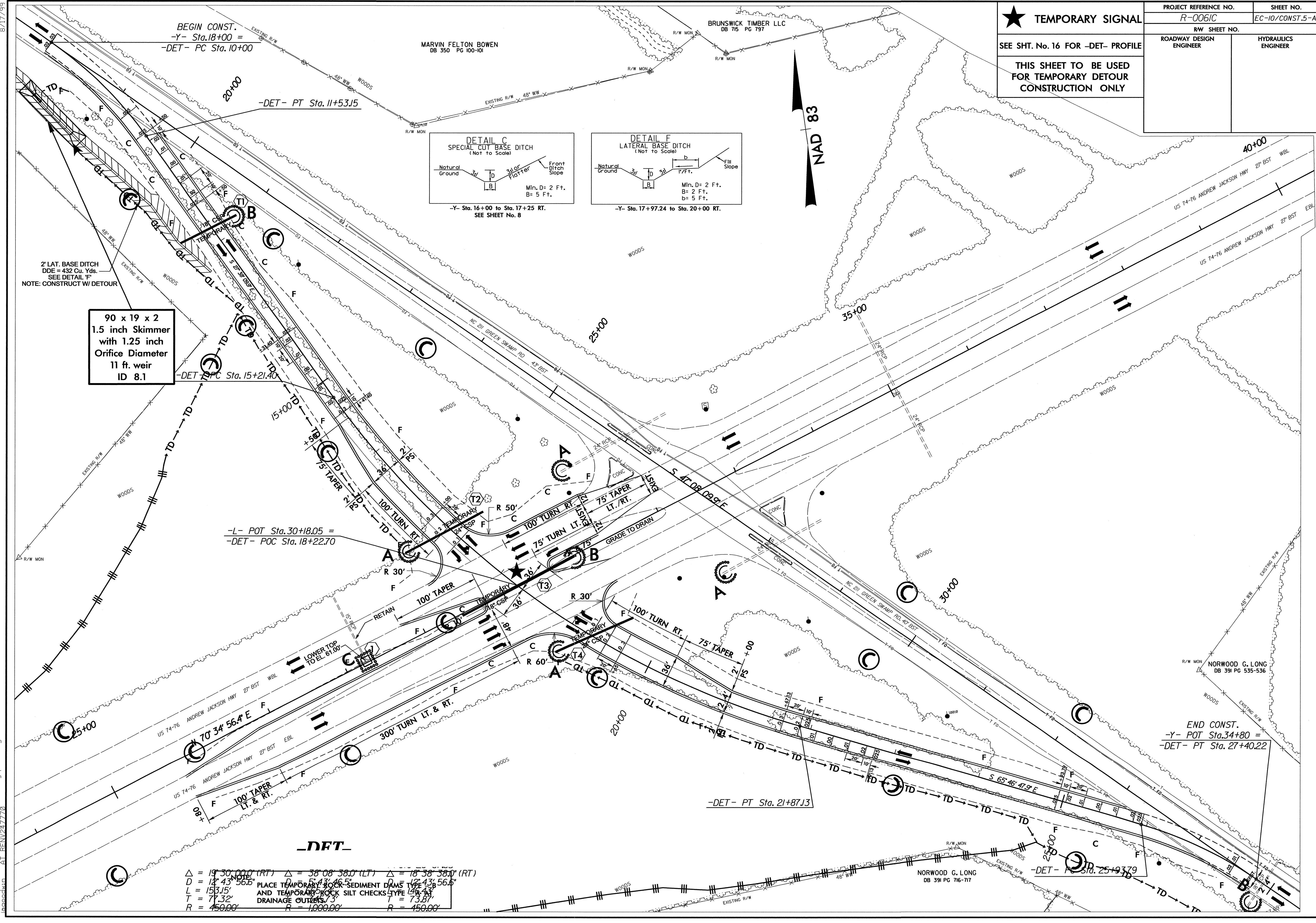
NORWOOD G. LONG DB 391 PG 535-536



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11:00:00 AM REVISED

8/17/99

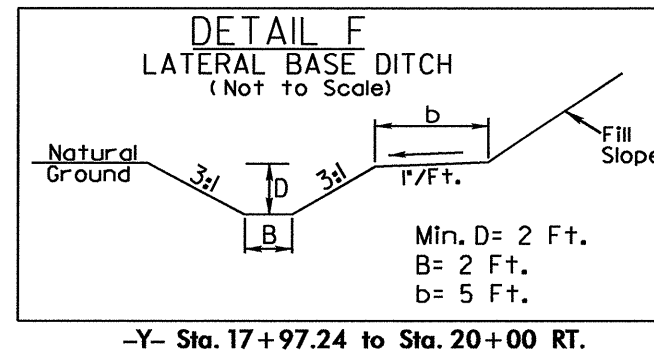
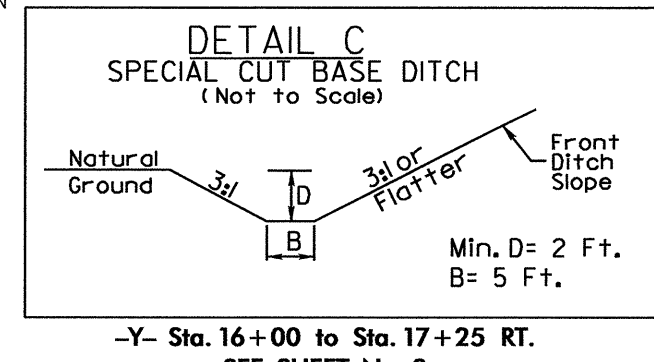
★ TEMPORARY SIGNAL	PROJECT REFERENCE NO. R-0061C	SHEET NO. EC-10/CONST.5-A
	R/W SHEET NO.	
SEE SHT. No. 16 FOR -DET- PROFILE	ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
THIS SHEET TO BE USED FOR TEMPORARY DETOUR CONSTRUCTION ONLY		



BEGIN CONST.
-Y- Sta. 18+00 =
-DET- PC Sta. 10+00

MARVIN FELTON BOWEN
DB 350 PG 100-101

BRUNSWICK TIMBER LLC
DB 715 PG 197



2' LAT. BASE DITCH
DDE = 432 Cu. Yds.
SEE DETAIL F
NOTE: CONSTRUCT W/ DETOUR

90 x 19 x 2
1.5 inch Skimmer
with 1.25 inch
Orifice Diameter
11 ft. weir
ID 8.1

-L- POT Sta. 30+18.05 =
-DET- POC Sta. 18+22.70

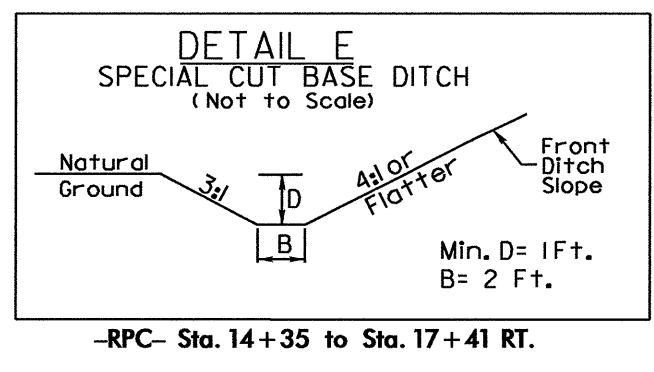
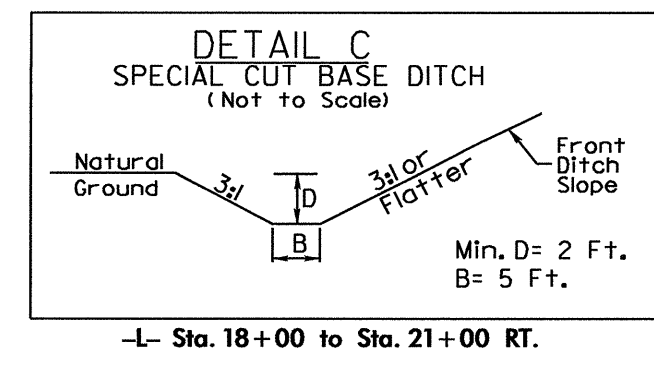
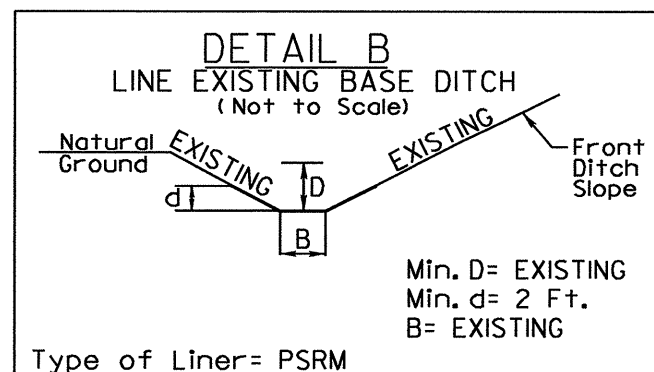
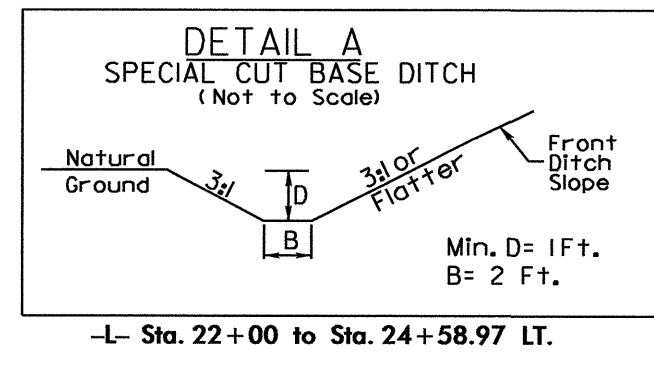
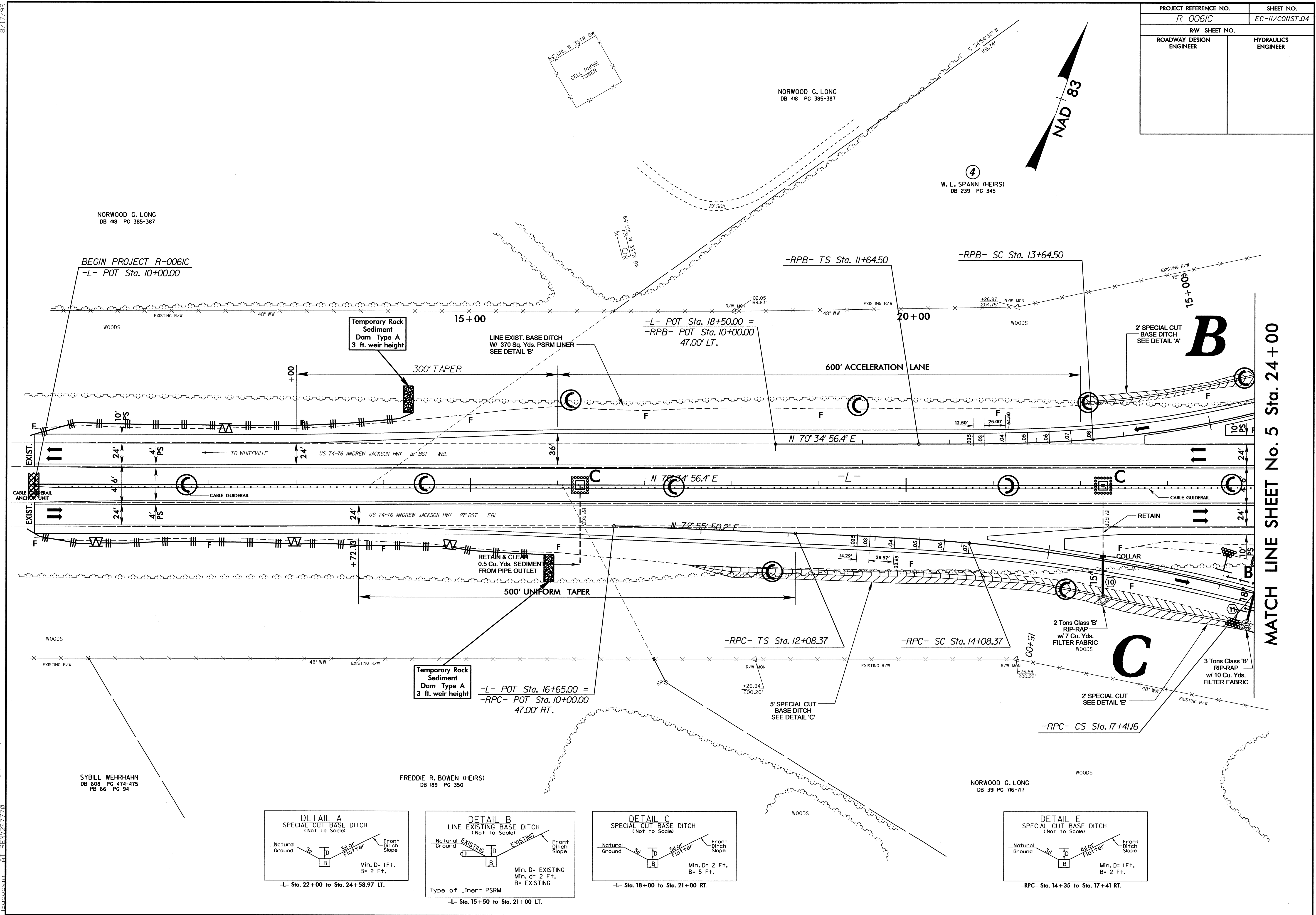
END CONST.
-Y- POT Sta. 34+80 =
-DET- PT Sta. 27+40.22

△ = 19° 30' 00" (RT) △ = 38° 08' 38.0" (LT) △ = 18° 38' 38.0" (RT)
D = 12' 43" 56.6" PLACE TEMPORARY SEDIMENT DAMS TYPE 12-43-56.6"
L = 153.15' AND TEMPORARY CHECK SILT CHECKS TYPE 153.15'
T = 71' 32" DRAINAGE CUTS TYPE 71.32'
R = 450.00' R = 1000.00' R = 450.00'

02 MAY 2010 09:23 Designer: 0061c.rdu.psh5a.dgn
 PLOT: R-0061C-DET-10-CONST.5-A

8/17/99

PROJECT REFERENCE NO.		SHEET NO.	
R-0061C		EC-II/CONST.04	
RW SHEET NO.			
ROADWAY DESIGN ENGINEER		HYDRAULICS ENGINEER	

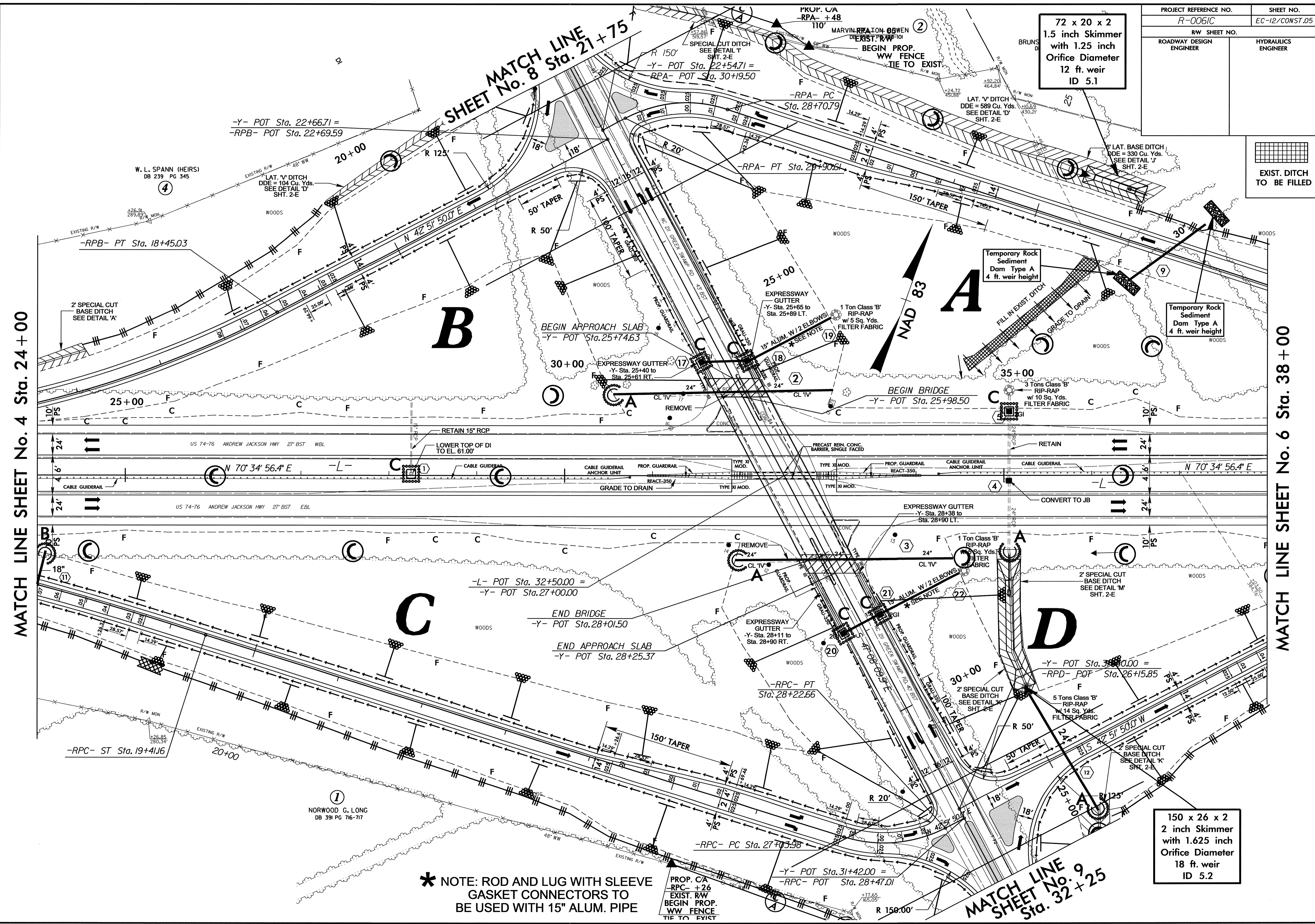
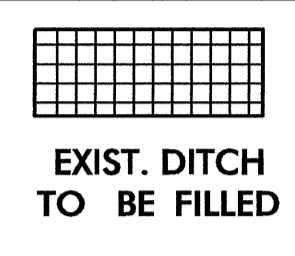


MATCH LINE SHEET No. 5 Sta. 24+00

03 MAY 2010 09:40 R:\p\m\p\Design\0061c_rdy_psh-k.dgn

8/17/99

PROJECT REFERENCE NO. R-0061C	SHEET NO. EC-12/CONST.05
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER



MATCH LINE SHEET No. 4 Sta. 24+00

MATCH LINE SHEET No. 6 Sta. 38+00

SHEET MATCH LINE
No. 8 Sta. 21+75

MATCH LINE
SHEET No. 9
Sta. 32+25

72 x 20 x 2
1.5 inch Skimmer
with 1.25 inch
Orifice Diameter
12 ft. weir
ID 5.1

150 x 26 x 2
2 inch Skimmer
with 1.625 inch
Orifice Diameter
18 ft. weir
ID 5.2

* NOTE: ROD AND LUG WITH SLEEVE
GASKET CONNECTORS TO
BE USED WITH 15" ALUM. PIPE

03-MAY-2010 09:26
 C:\p\0061C\Drawings\EC-12\CONST\12-05.dwg
 J:\0061C\Drawings\EC-12\CONST\12-05.dwg

PROJECT REFERENCE NO.	SHEET NO.
R-0061C	EC-13/CONST.06
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

MATCH LINE SHEET No. 5 Sta. 38+00

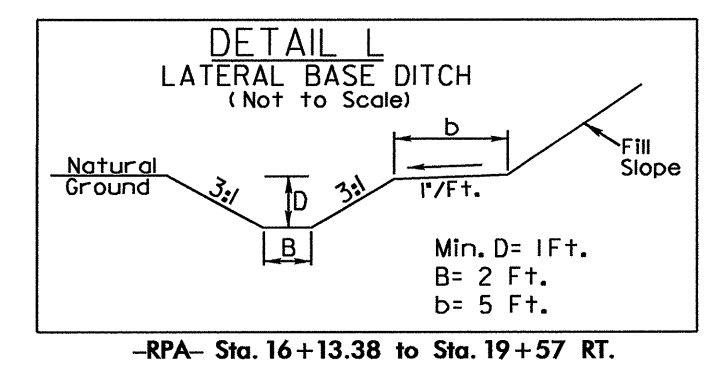
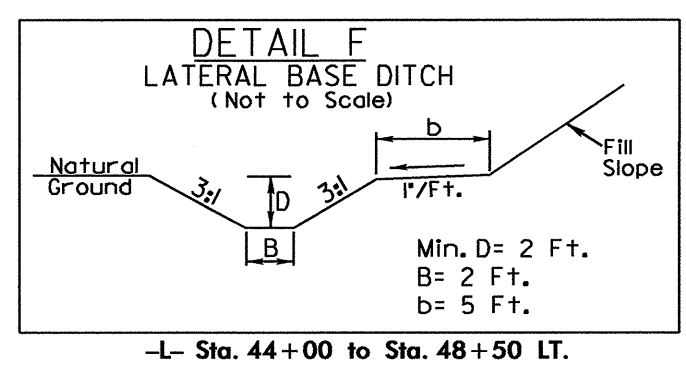
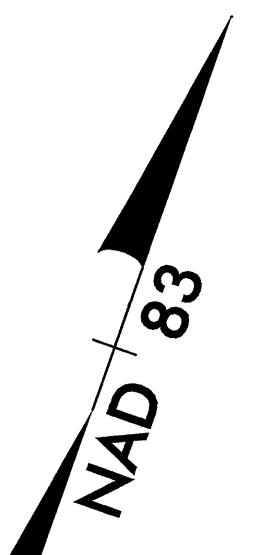
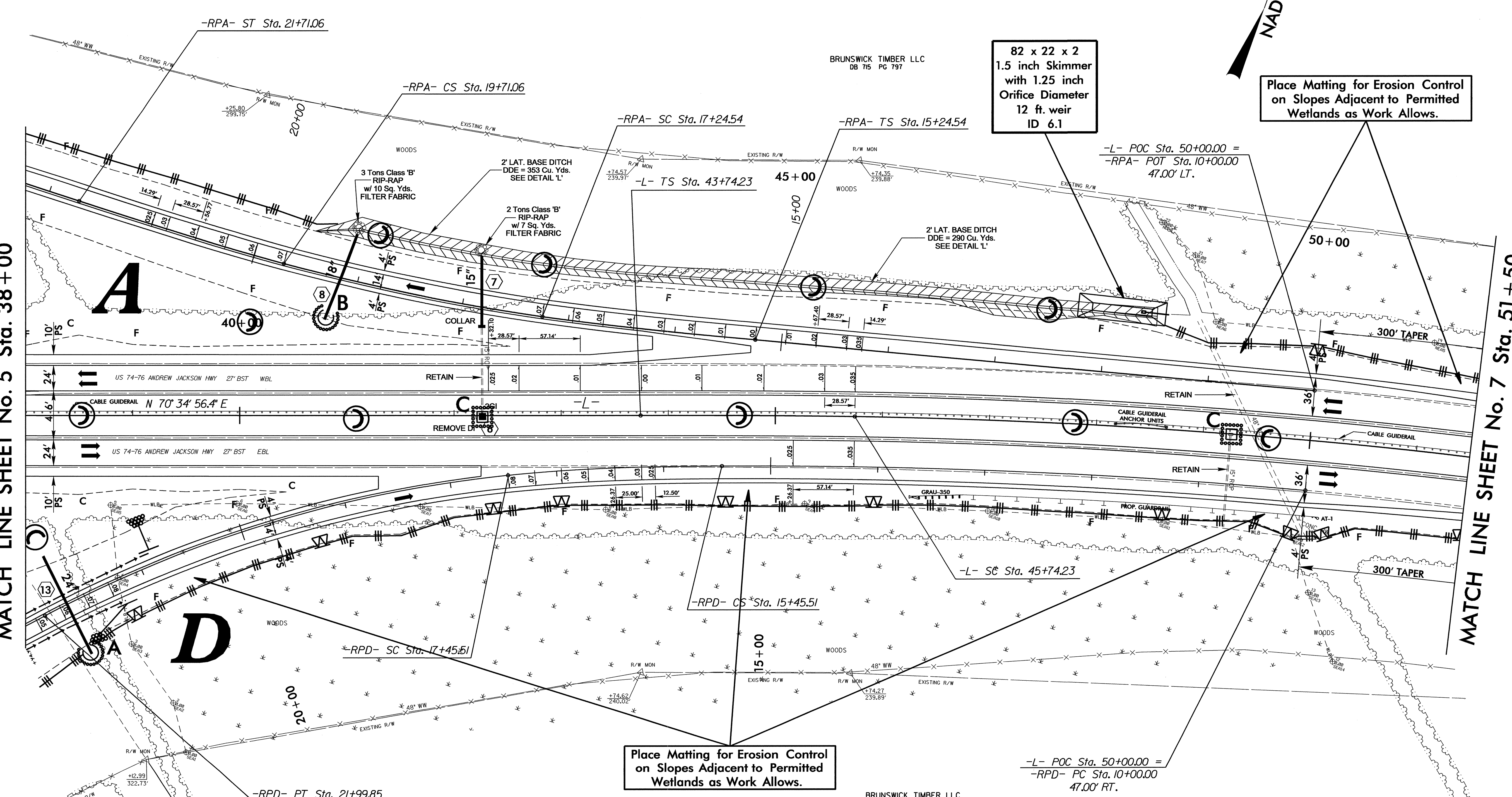
MATCH LINE SHEET No. 7 Sta. 51+50

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NORWOOD G. LONG
DB 391 PG 535-536

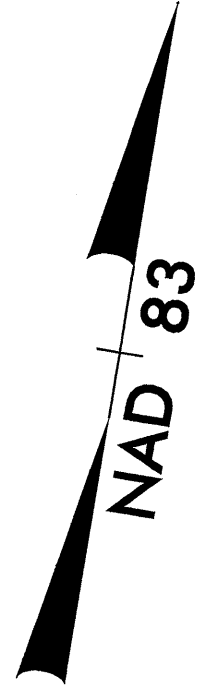
BRUNSWICK TIMBER LLC
DB 715 PG 797

BRUNSWICK TIMBER LLC
DB 715 PG 797



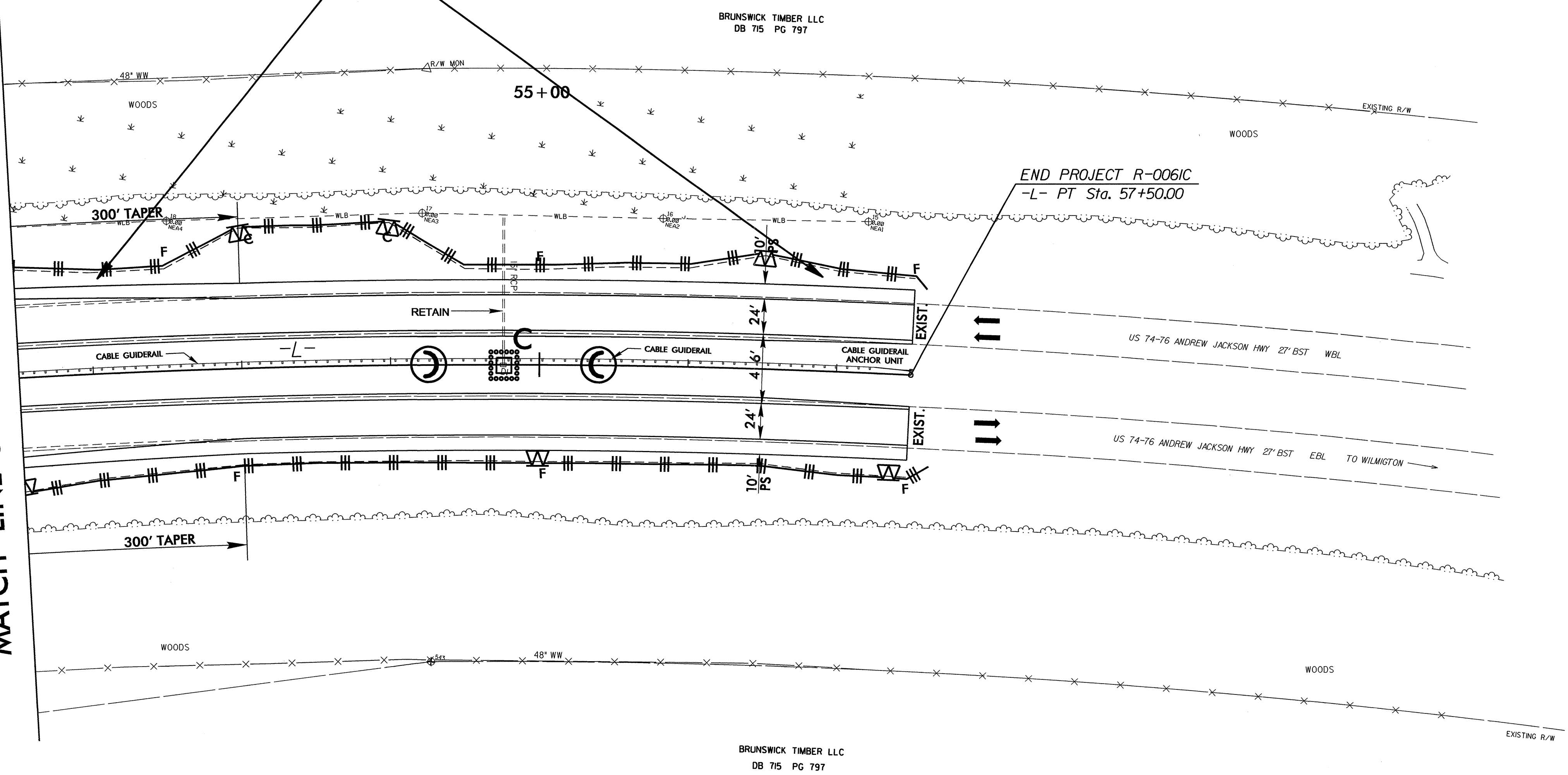
-L- POC Sta. 50+00.00 =
-RPD- PC Sta. 10+00.00
47.00' RT.

PROJECT REFERENCE NO. <i>R-0061C</i>	SHEET NO. <i>EC-14/CONST.07</i>
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER



MATCH LINE SHEET No. 6 Sta. 51+50

Place Matting for Erosion Control on Slopes Adjacent to Permitted Wetlands as Work Allows.



BRUNSWICK TIMBER LLC
DB 715 PG 797

BRUNSWICK TIMBER LLC
DB 715 PG 797

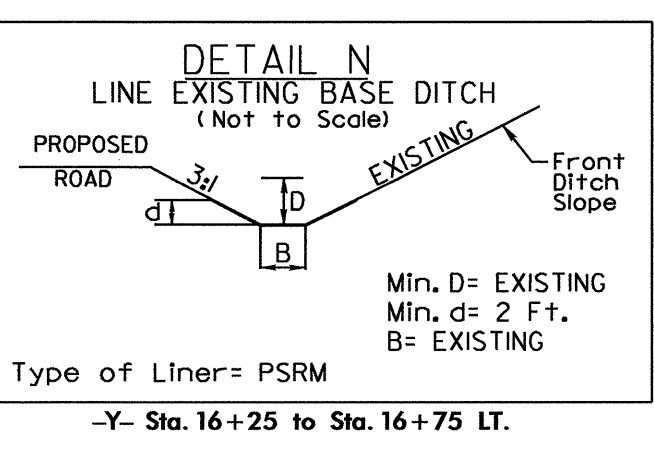
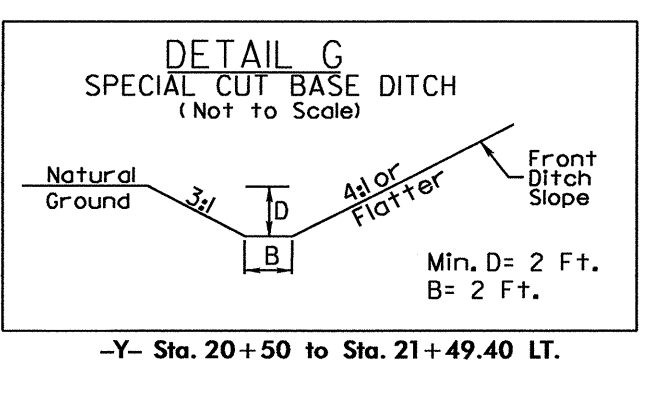
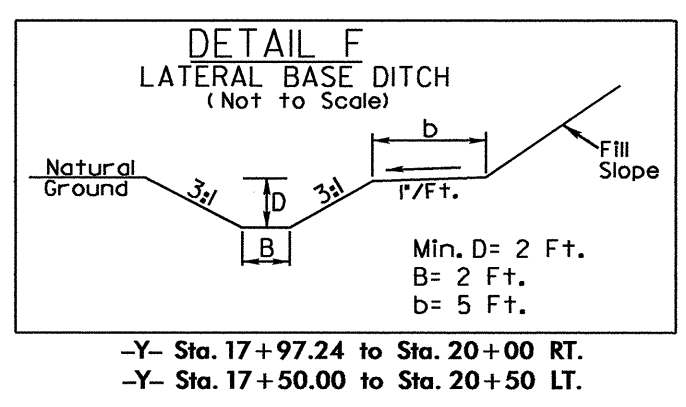
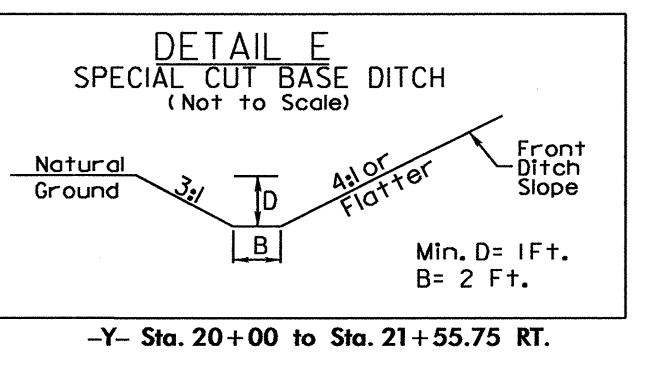
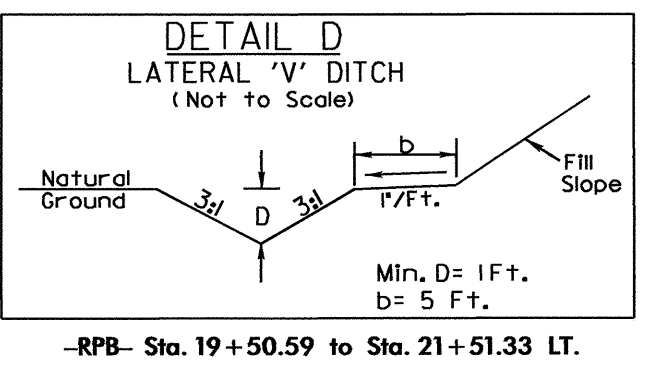
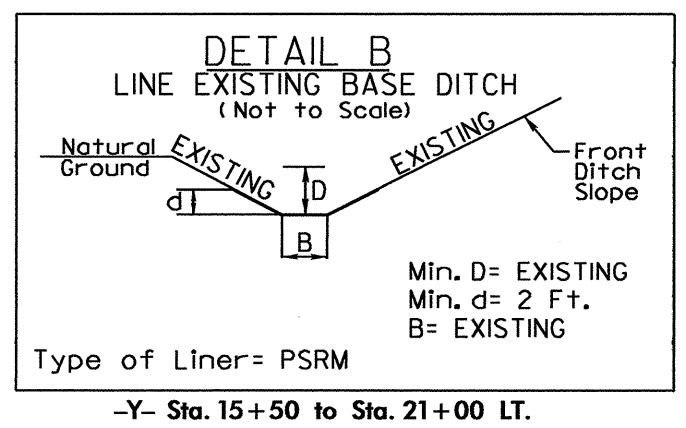
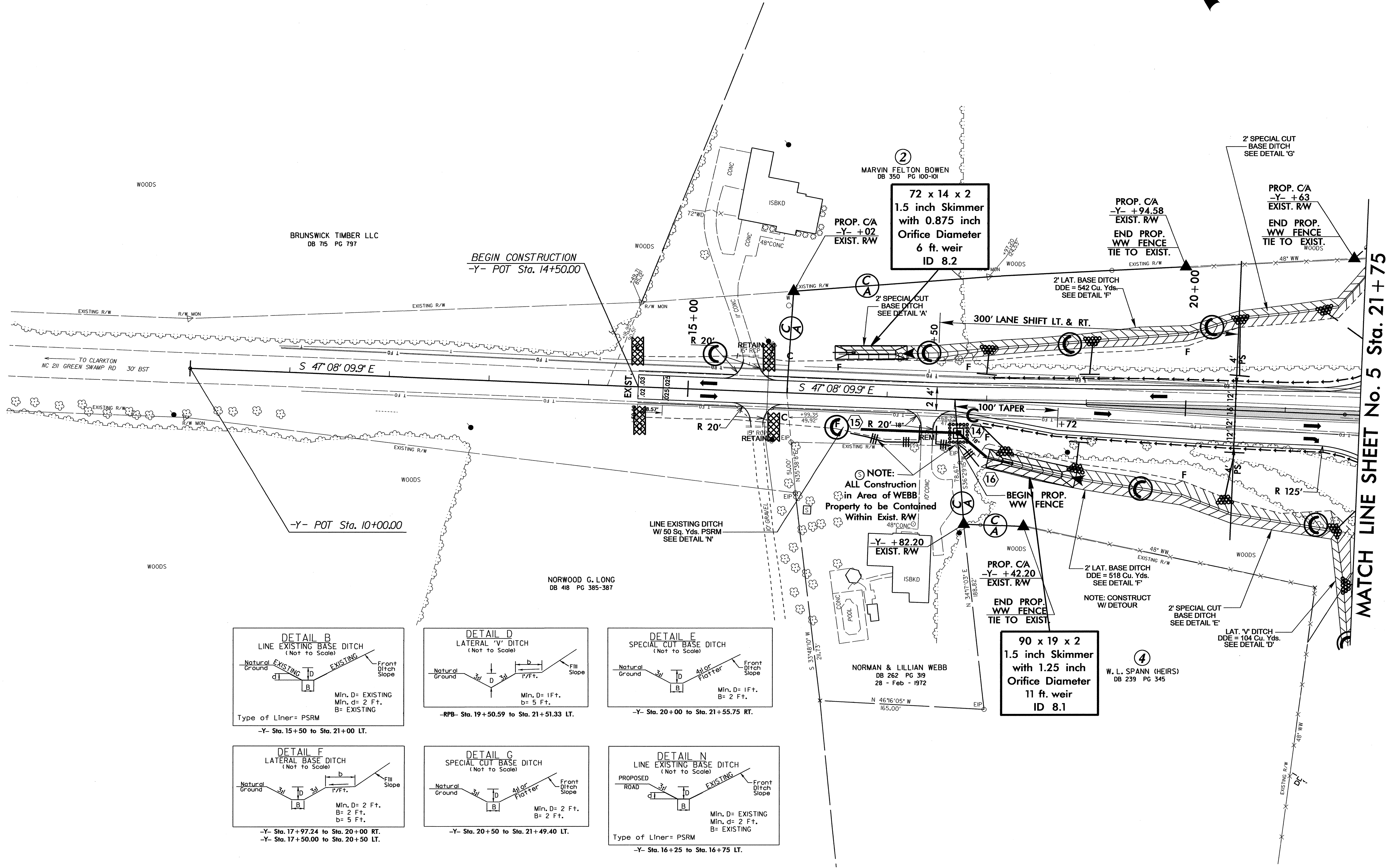
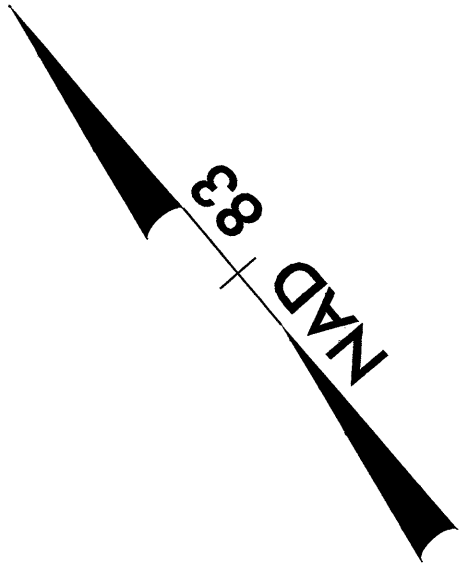
END PROJECT R-0061C
-L- PT Sta. 57+50.00

US 74-76 ANDREW JACKSON HWY 27' BST WBL

US 74-76 ANDREW JACKSON HWY 27' BST EBL TO WILMINGTON

8/17/99

PROJECT REFERENCE NO. <i>R-0061C</i>		SHEET NO. <i>EC-15/CONST.08</i>	
RW SHEET NO.			
ROADWAY DESIGN ENGINEER		HYDRAULICS ENGINEER	

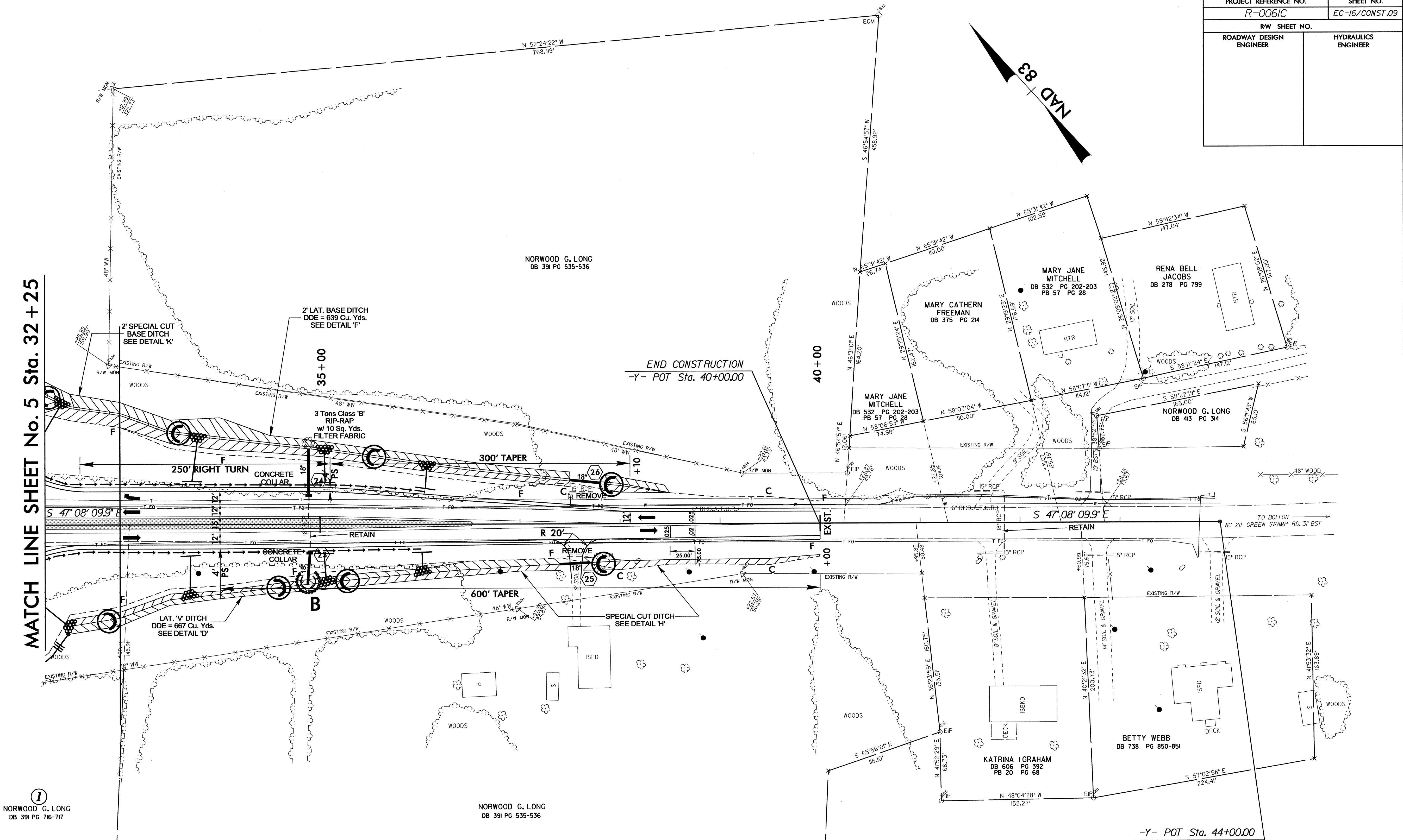


02 MAY 2010 13:28
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REV: 17/07/99

8/17/99

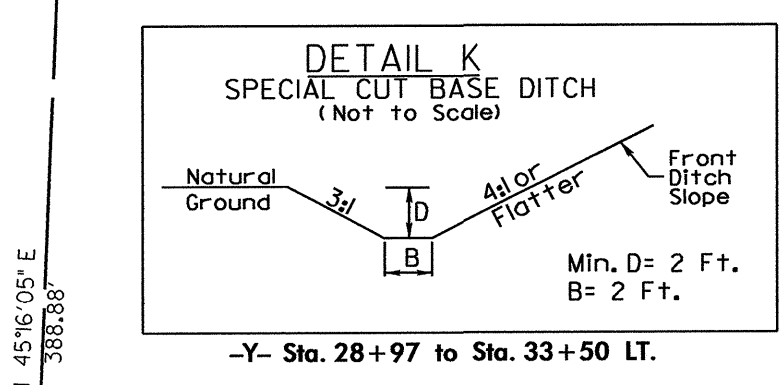
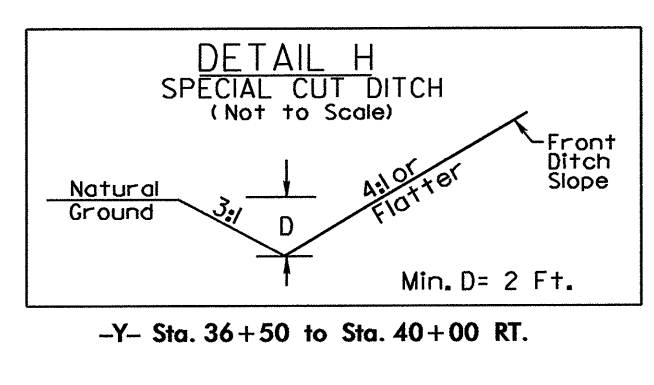
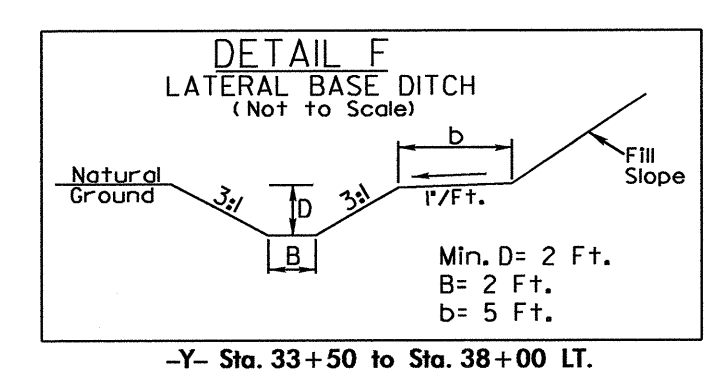
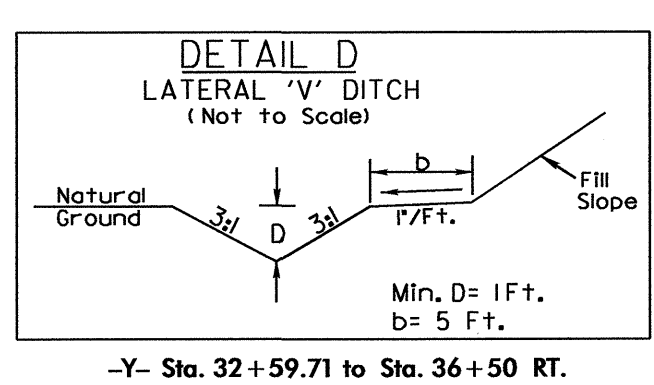
PROJECT REFERENCE NO.	SHEET NO.
R-0061C	EC-16/CONST.09
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

MATCH LINE SHEET No. 5 Sta. 32 + 25



I
 NORWOOD G. LONG
 DB 391 PG 716-717

NORWOOD G. LONG
 DB 391 PG 535-536



03-MAY-2010 13:40
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