

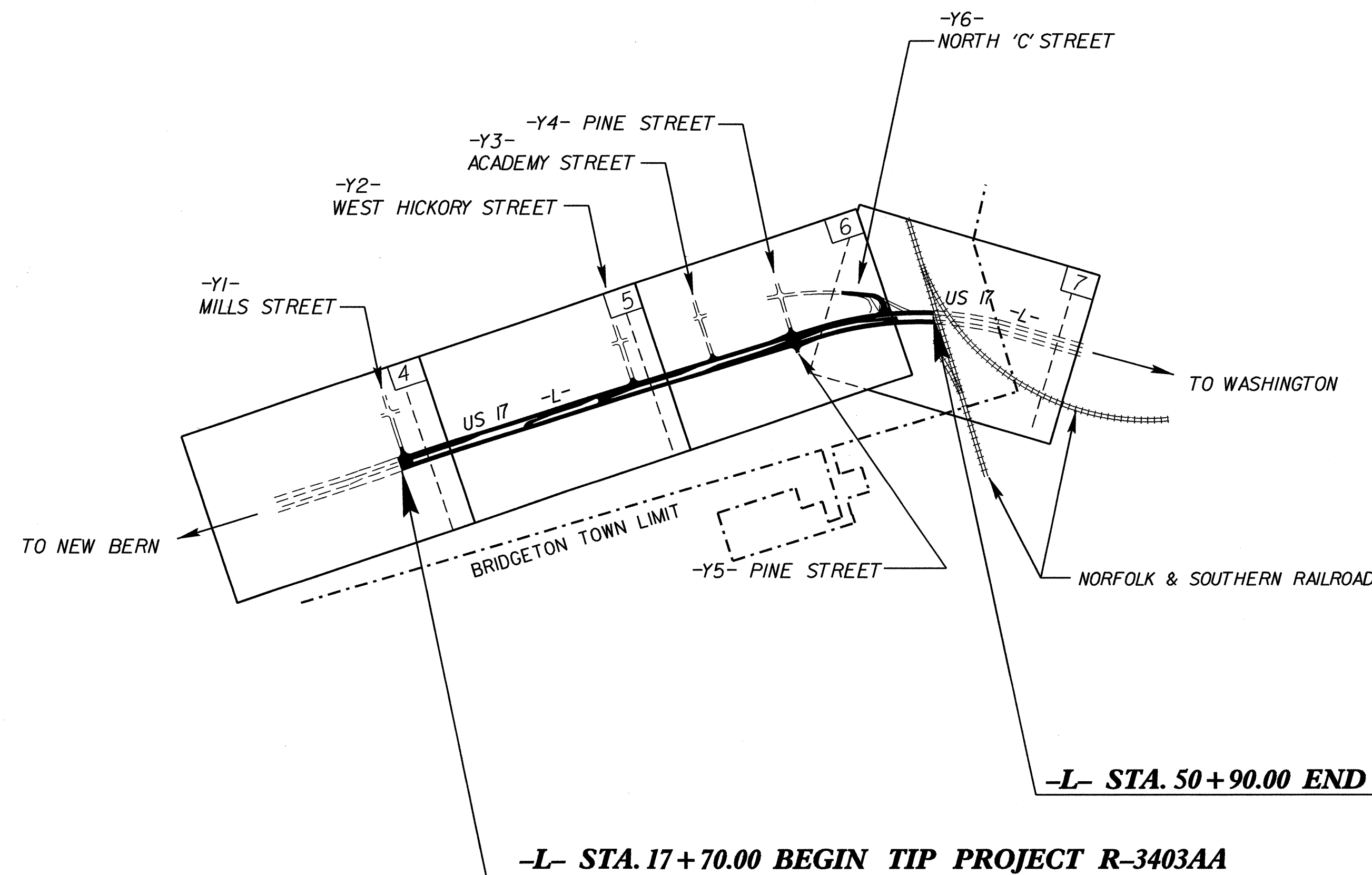
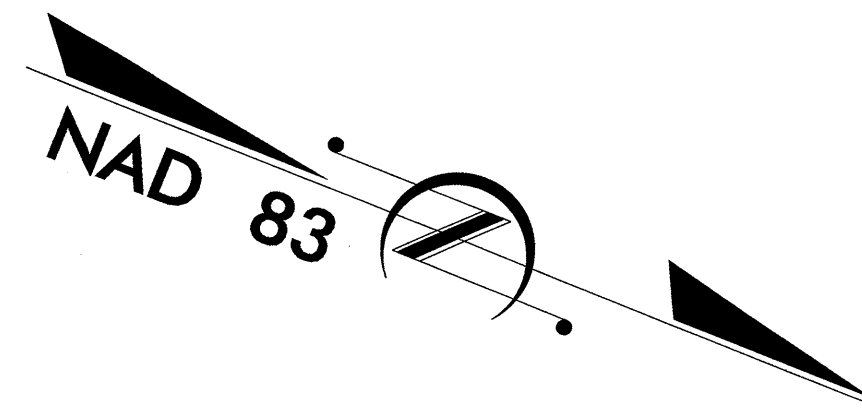
**TIP PROJECT: R-3403AA**

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

**CRAVEN COUNTY**

**LOCATION: US 17 FROM MILLS STREET  
 TO NORFOLK & SOUTHERN RAILROAD**

**TYPE OF WORK: GRADING, PAVING, DRAINAGE, AND CURB & GUTTER**



STATE	STATE PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.	R-3403AA	EC-1	
STATE PROJ. NO.	F.A. PROJ. NO.	DESCRIPTION	

**EROSION AND SEDIMENT CONTROL MEASURES**

Std. #	Description	Symbol
	Streambank Reforestation	
1650.05	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	
	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:	
	Type A	
1632.01	Type B	
1632.02	Type C	
1632.03	Type C	
	Skimmer Basin	
	Tiered Skimmer Basin	

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

**THIS PROJECT HAS  
 BEEN DESIGNED TO  
 SENSITIVE WATERSHED  
 STANDARDS.**

**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

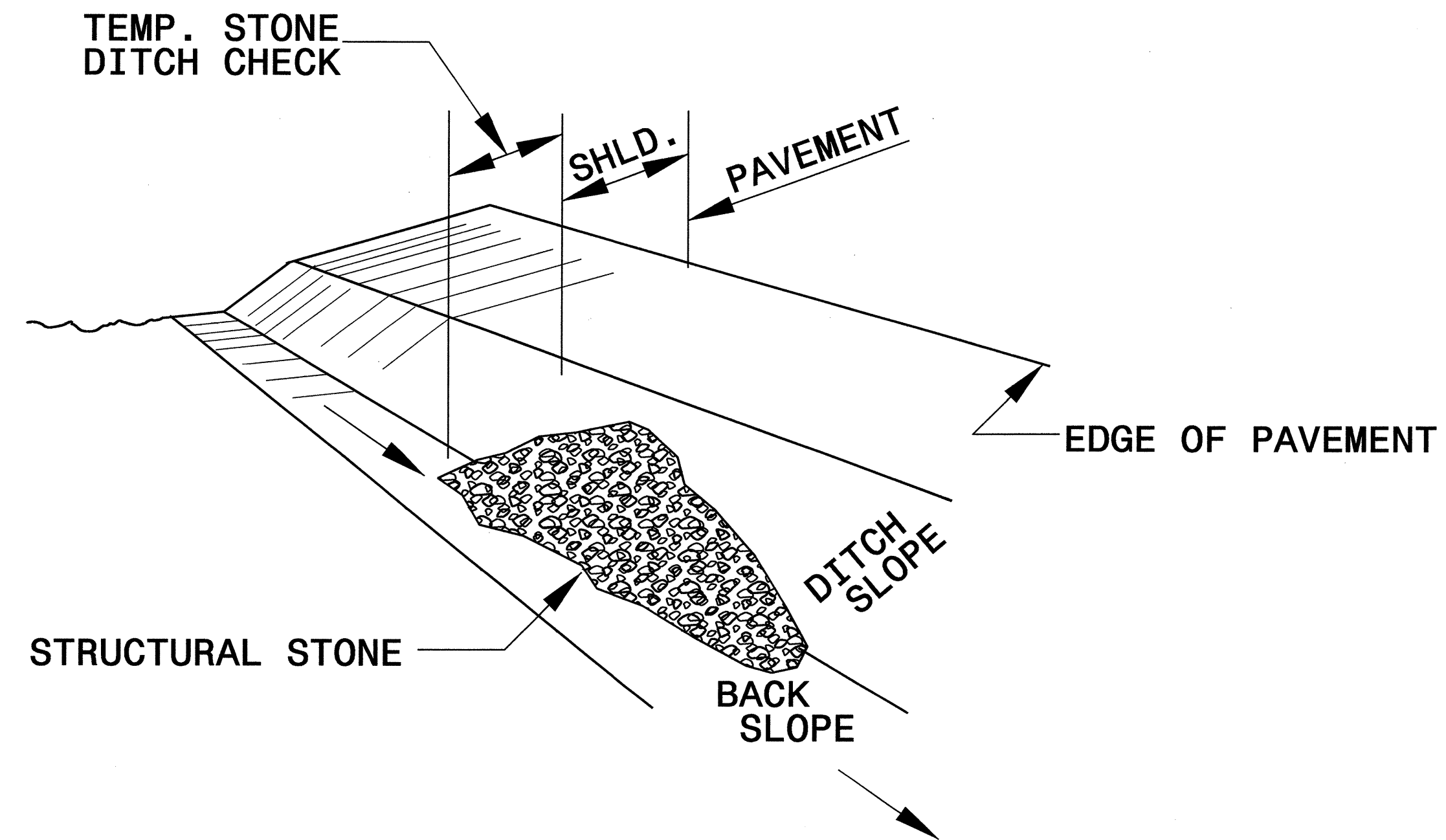
The following roadway English standards as appear in "Roadway Standard Drawings"- Roadway Design Unit - N. C. Department of Transportation - Raleigh, N. C., dated July 18, 2006 and the latest revision thereto are applicable to this project and by reference hereby are considered a part of these plans.

1605.01 Temporary Silt Fence	1632.01 Rock Inlet Sediment Trap Type A
1606.01 Special Sediment Control Fence	1632.03 Rock Inlet Sediment Trap Type C
1607.01 Gravel Construction Entrance	1633.01 Temporary Rock Silt Check Type A
1622.01 Temporary Berms and Slope Drains	1635.02 Rock Pipe Inlet Sediment Trap Type B
1630.05 Temporary Diversion	

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 11/15/06 11:25:00 AM  
 mlaugish

PROJECT REFERENCE NO. R-3403AA	SHEET NO. EC-2
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

# TEMPORARY ROCK SILT CHECK TYPE 'B' DETAIL

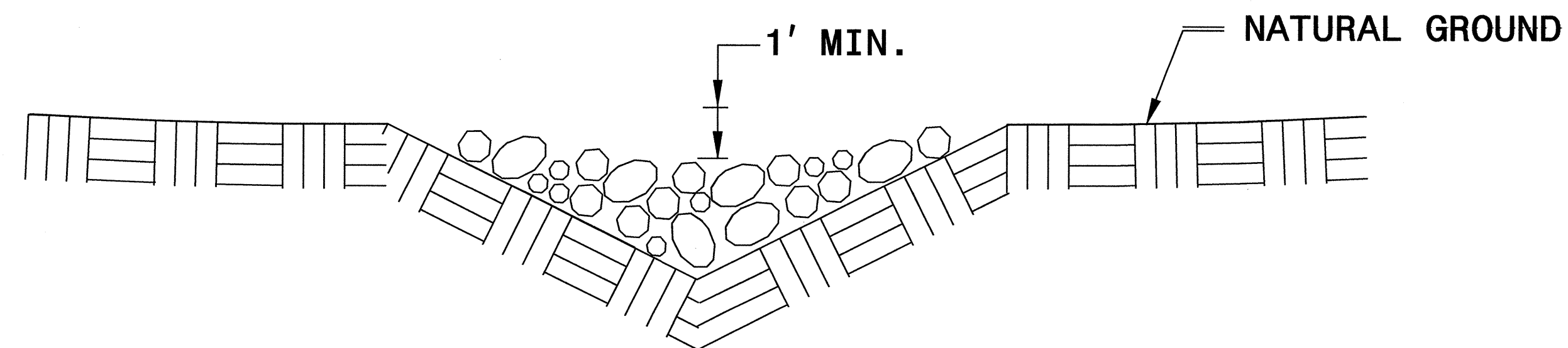


**ISOMETRIC VIEW**

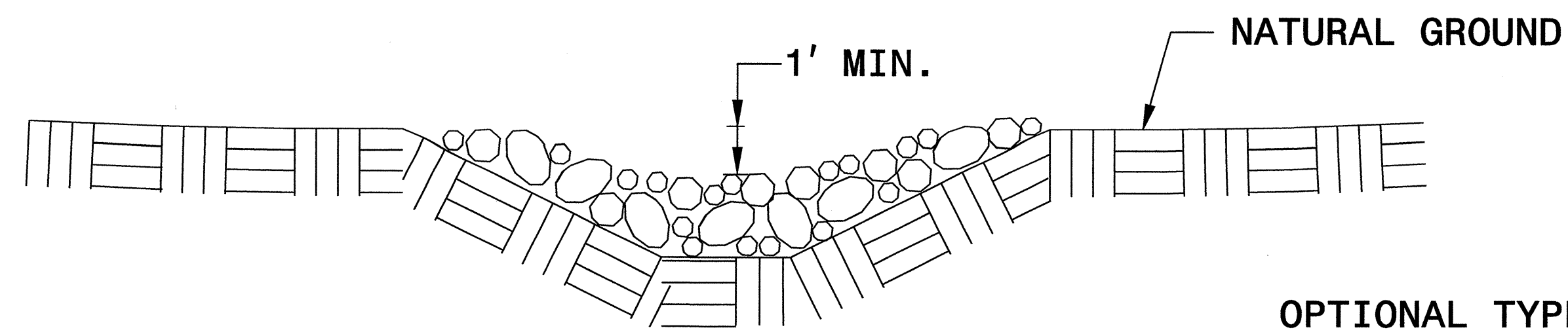
**NOTES:**

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

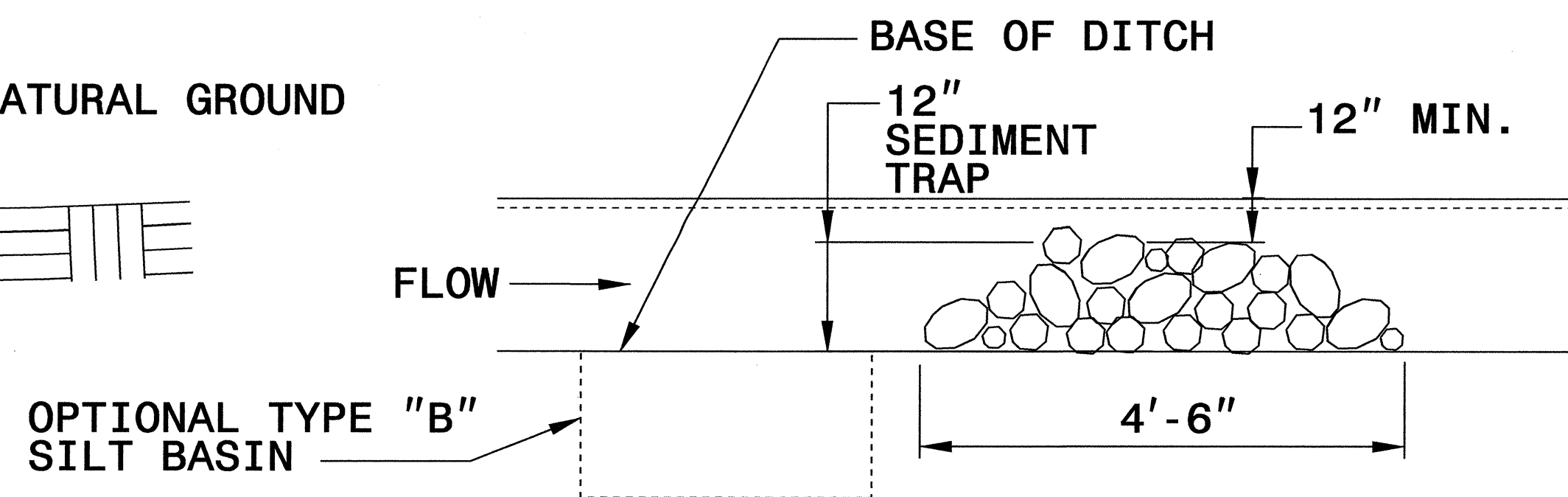
THE ENGINEER MAY DIRECT THE OPTION OF CLASS "A" STONE FOR SITES HAVING LESS THAN ONE (1) ACRE DRAINAGE AREA AND A DITCH GRADE LESS THAN 3%.



**CROSS SECTION VEE DITCH**



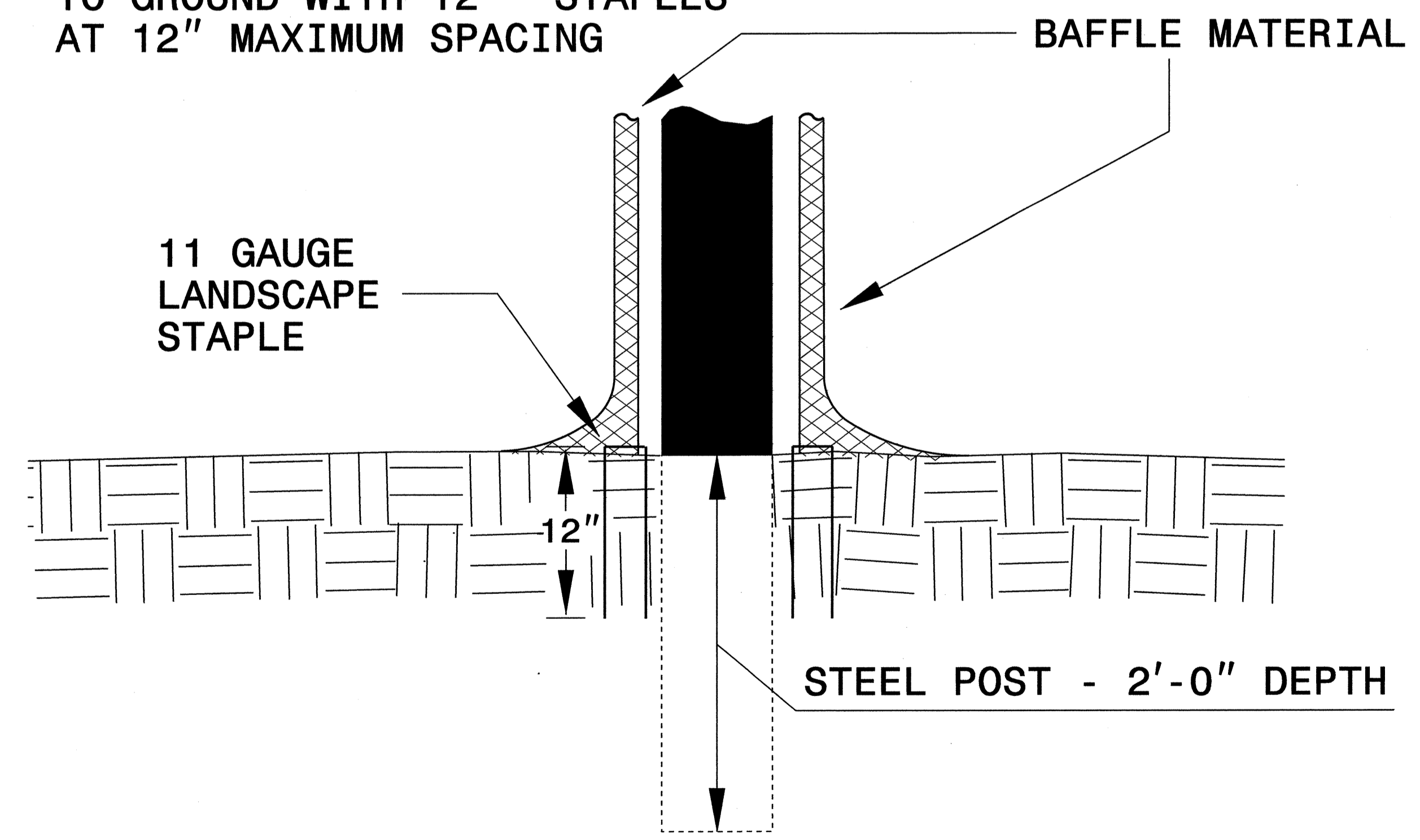
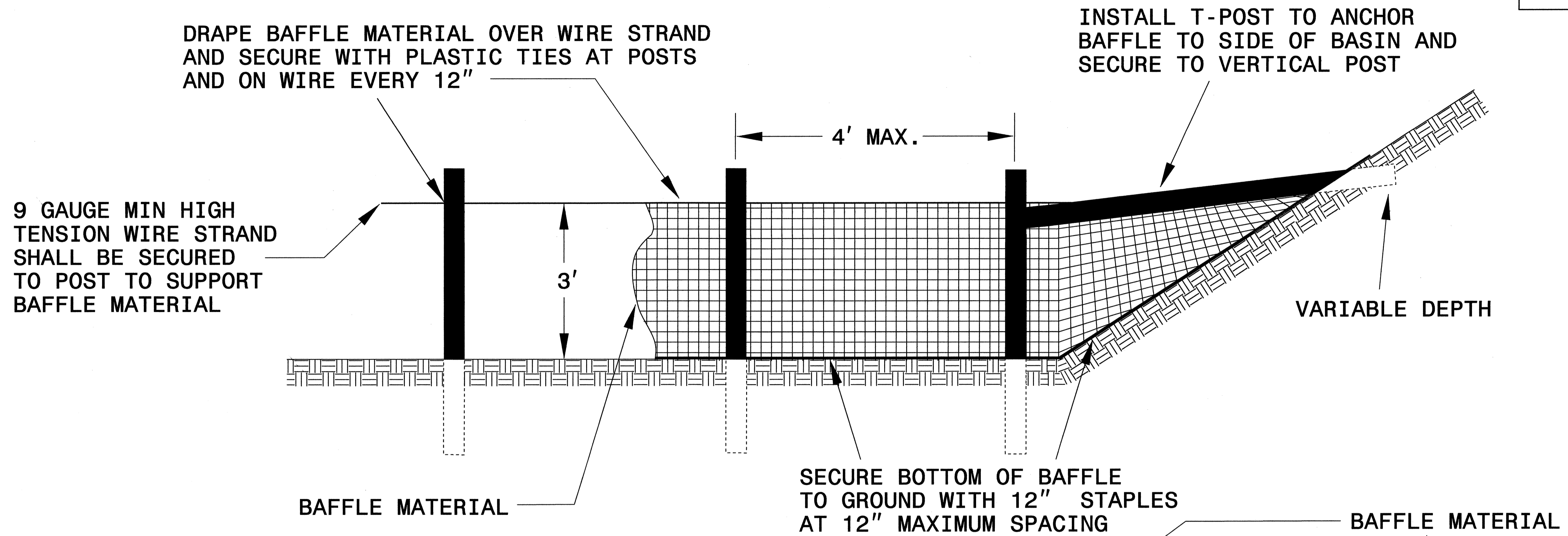
**CROSS SECTION TRAPEZOIDAL DITCH**



**ELEVATION VIEW**

PROJECT REFERENCE NO. R-3403AA	SHEET NO. EC-2A
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

# COIR FIBER BAFFLE DETAIL



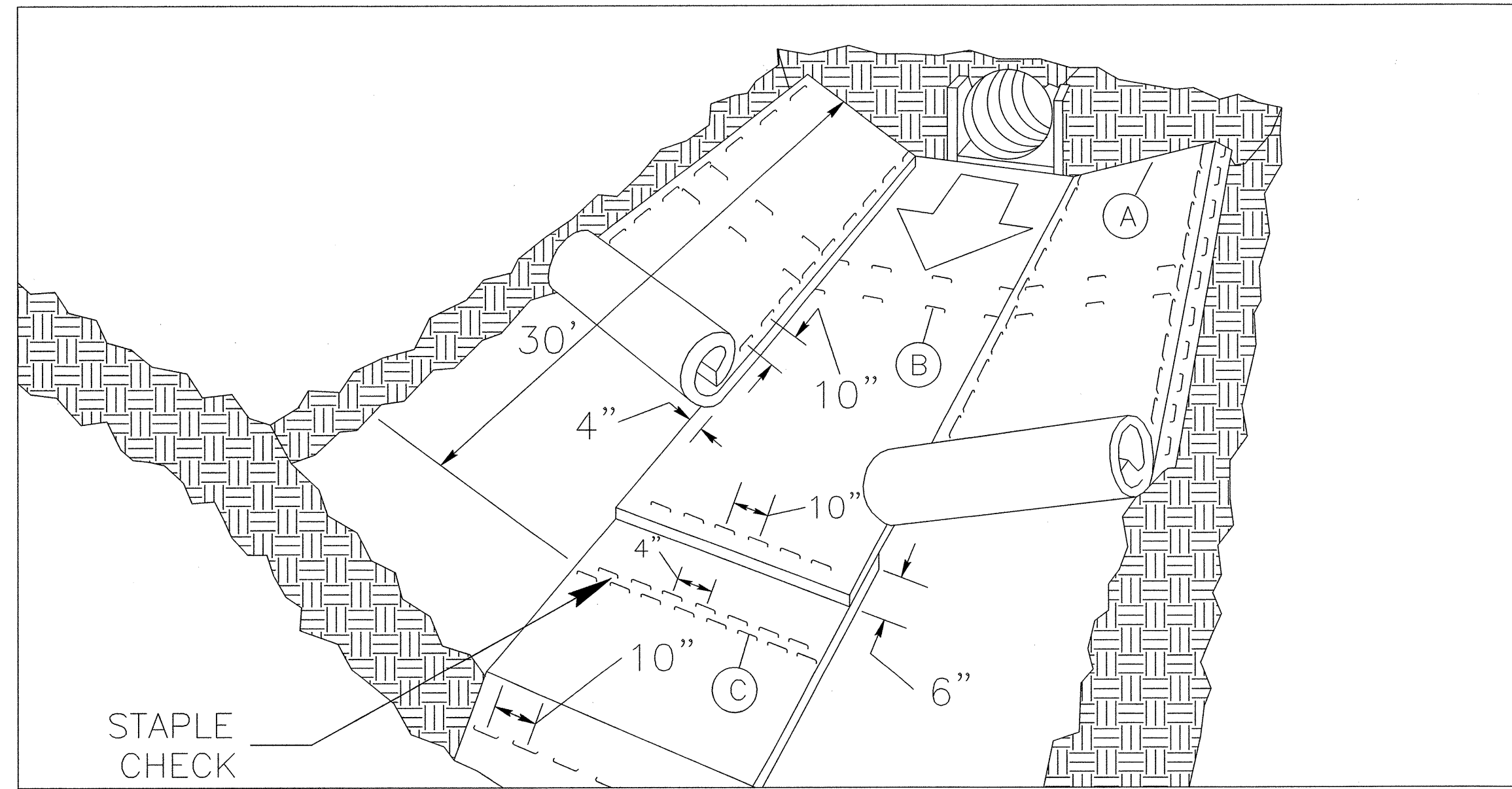
**NOTES:**

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

PROJECT REFERENCE NO. R-3403AA	SHEET NO. EC-2B
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

# MATTING INSTALLATION DETAIL



**MATTING IN DITCHES**

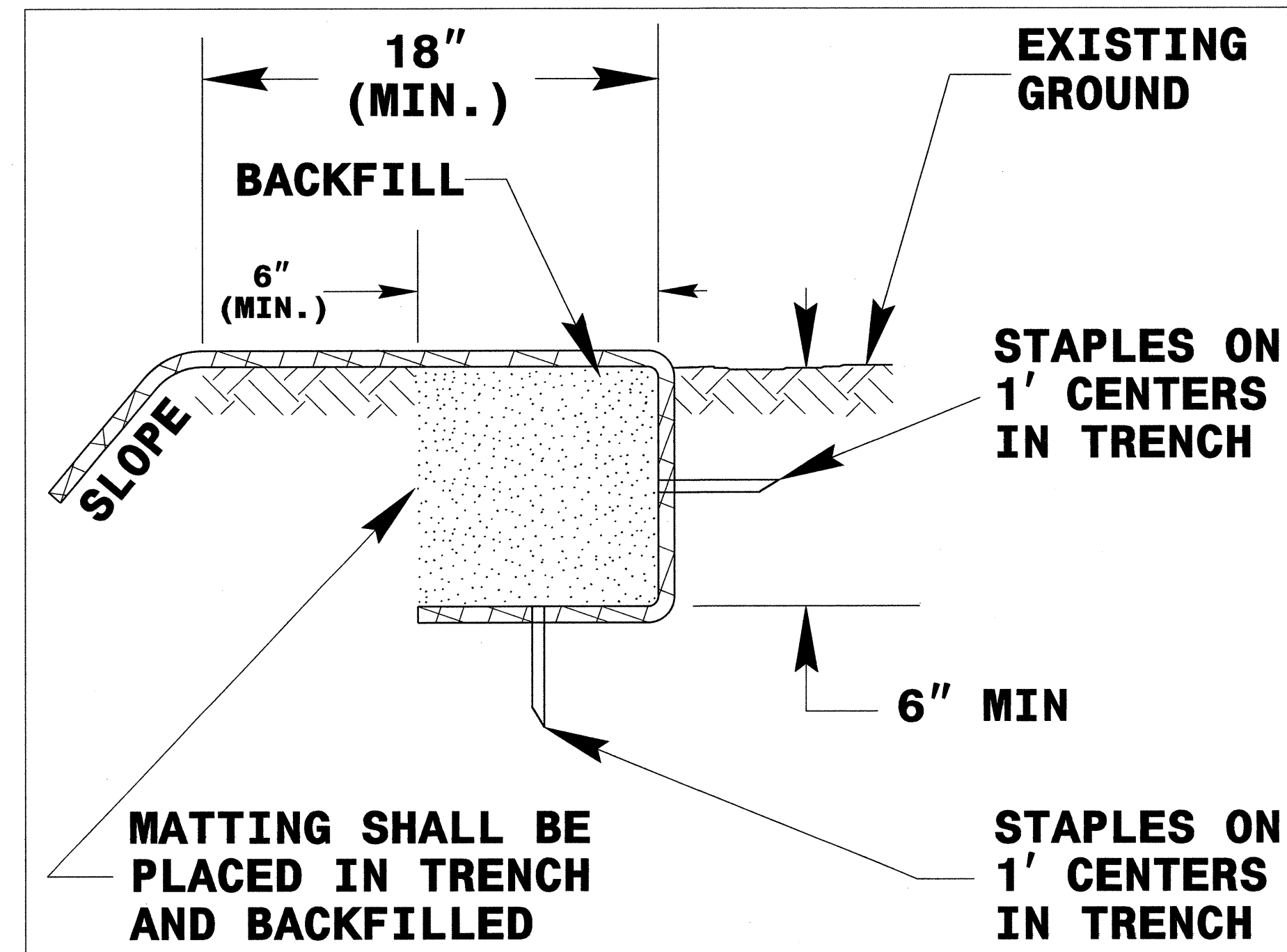
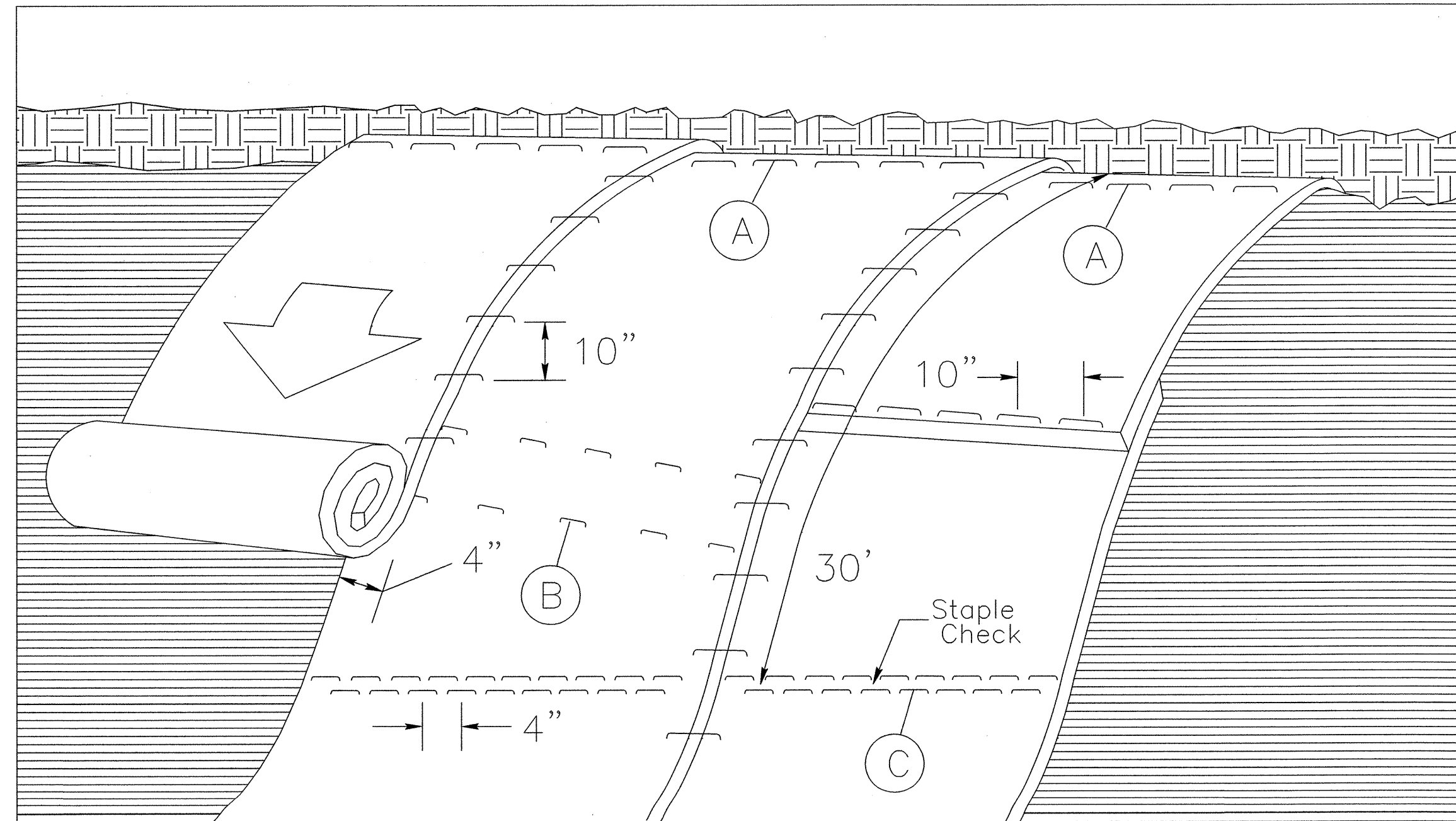


DIAGRAM (A)



**MATTING ON SLOPES**

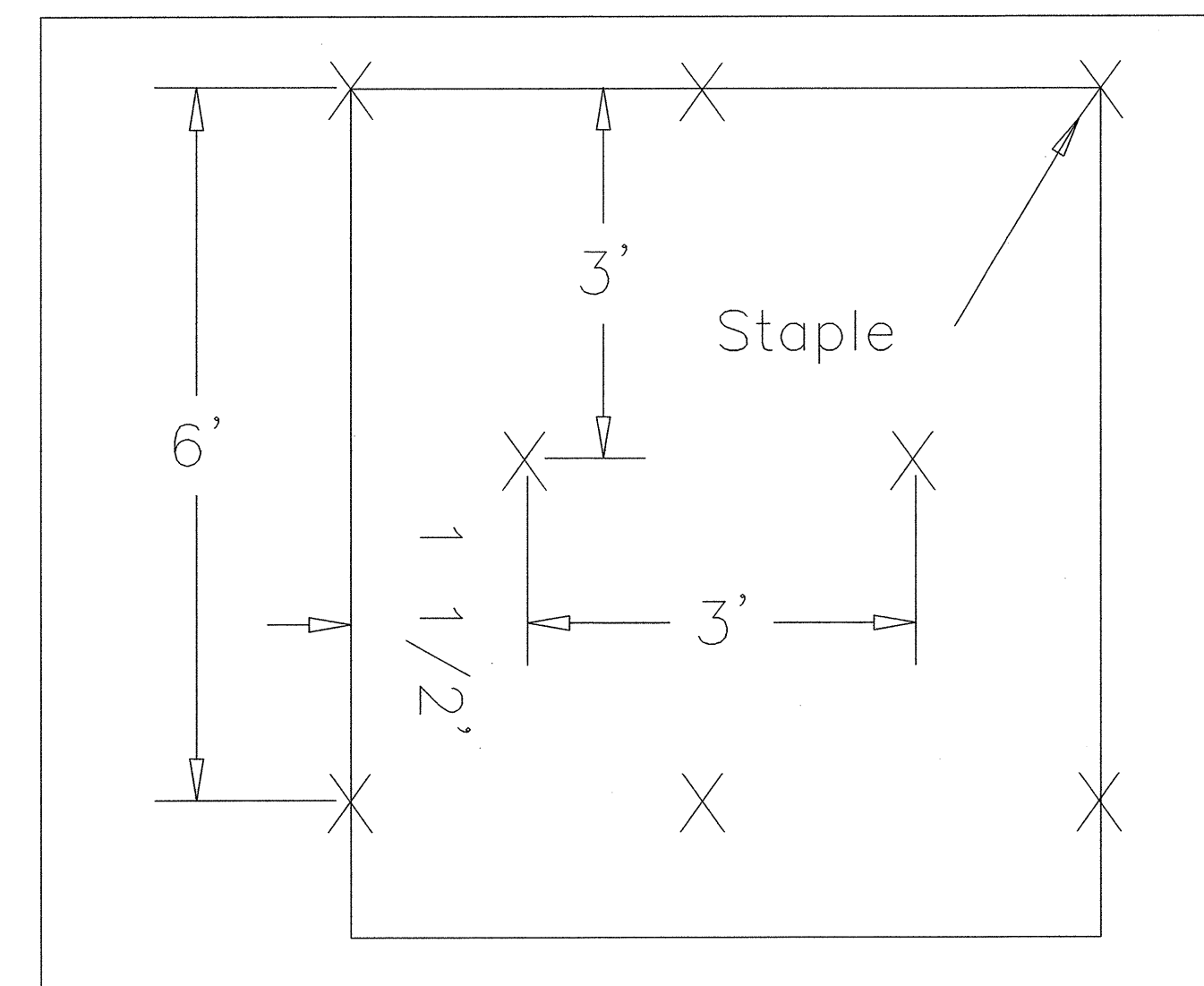


DIAGRAM (B)

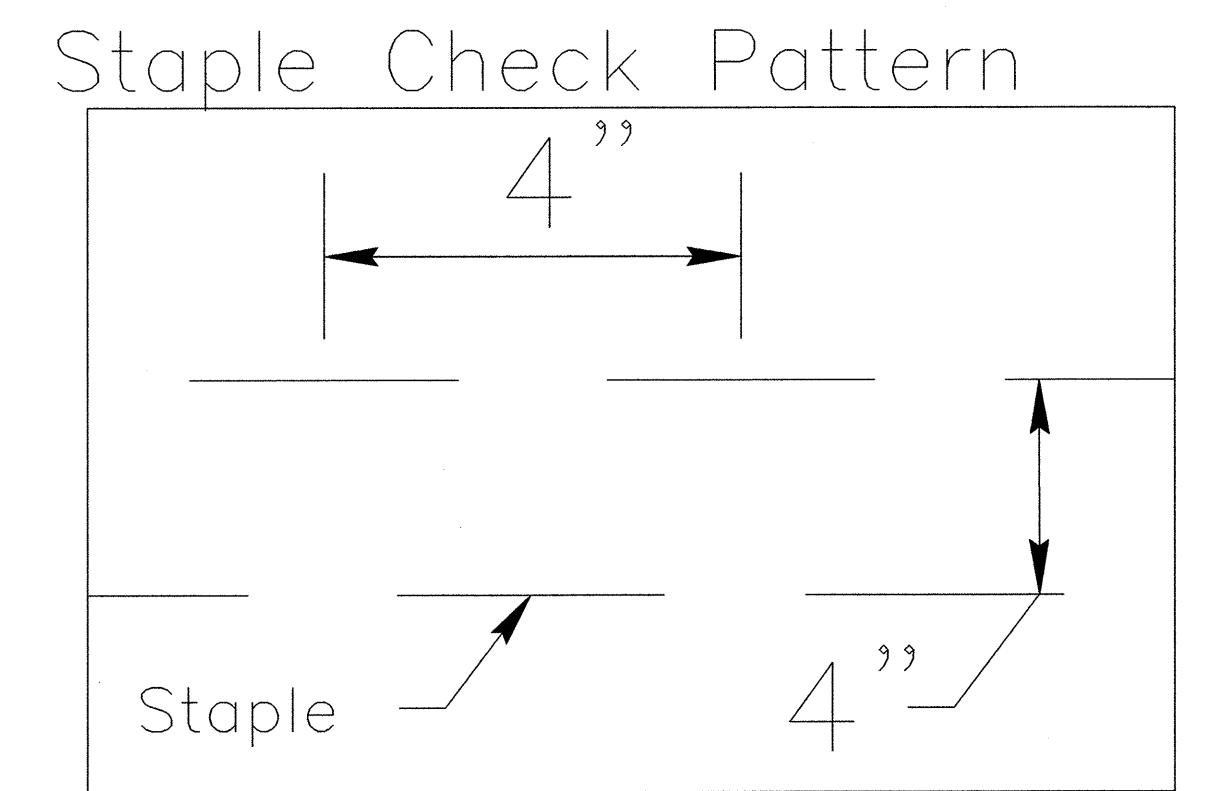


DIAGRAM (C)

**NOTES:**

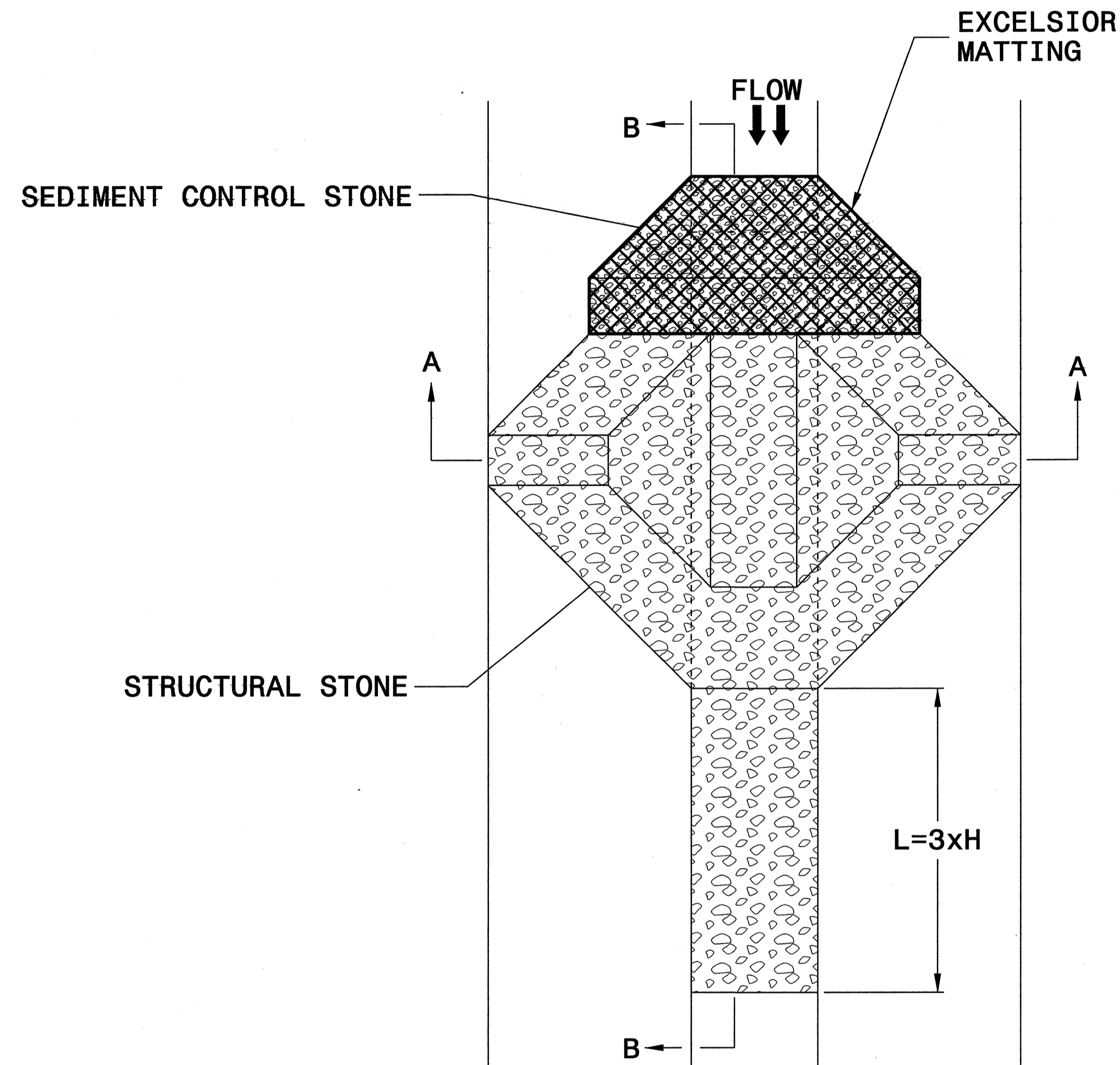
THIS DETAIL APPLIES TO STRAW, EXCELSIOR, AND PERMANENT SOIL REINFORCEMENT MAT (PSRM) INSTALLATION.

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.

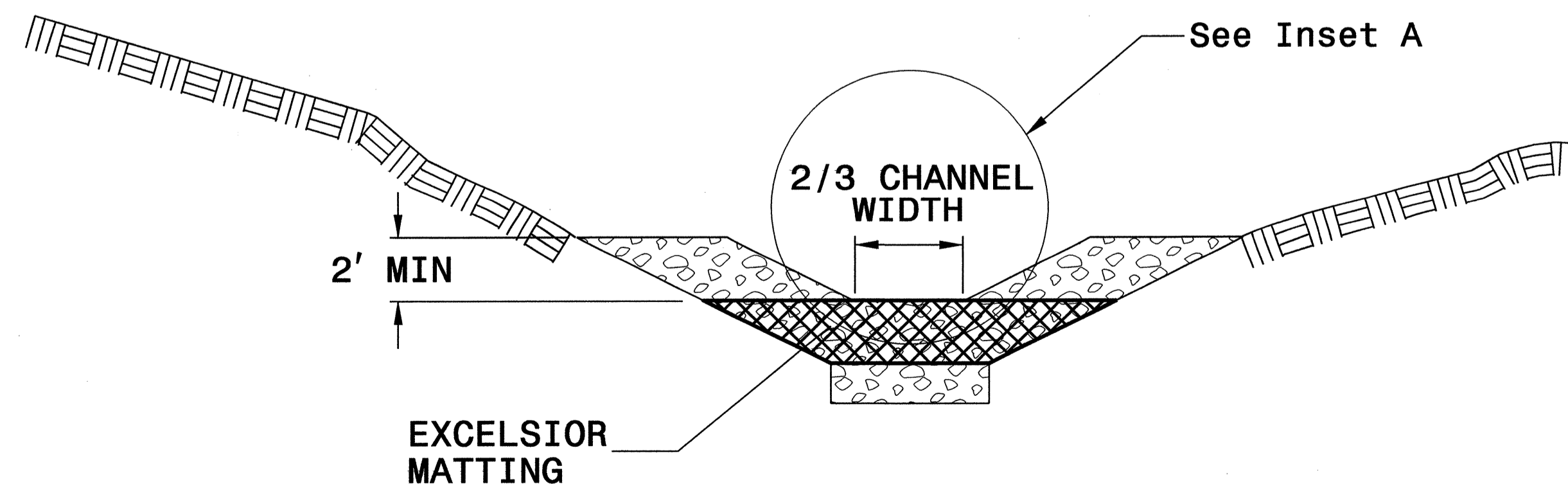
NOT TO SCALE

PROJECT REFERENCE NO. R-3403AA	SHEET NO. EC-2C
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

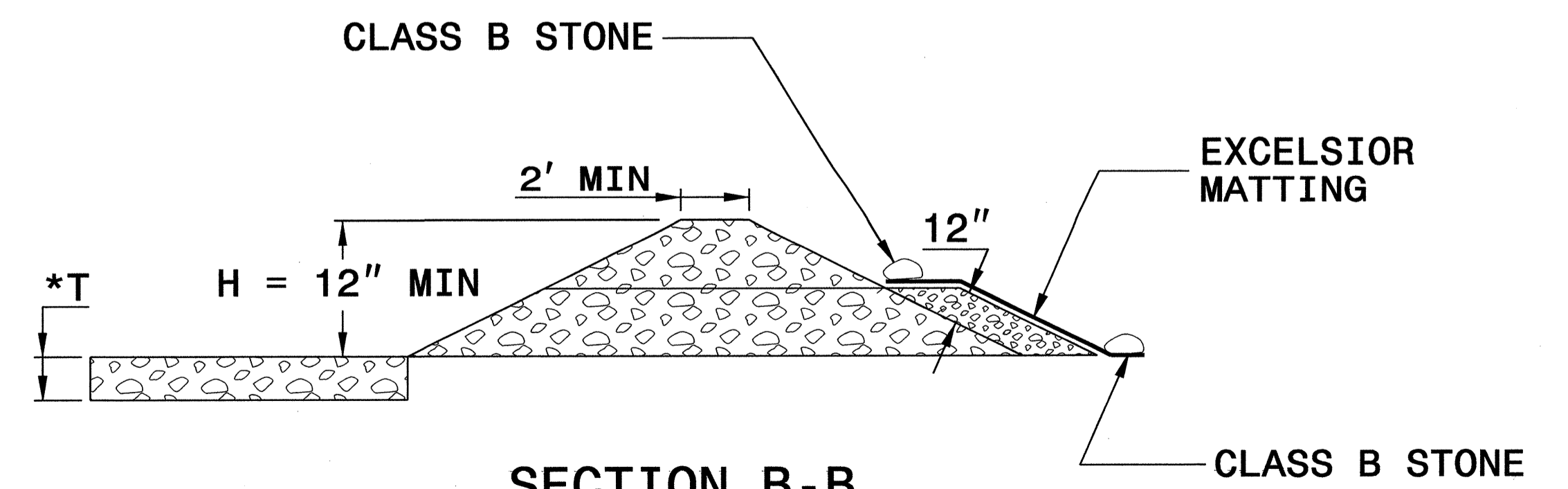
# TEMPORARY ROCK SILT CHECK TYPE 'A' WITH EXCELSIOR MATTING AND POLYACRYLAMIDE (PAM)



PLAN



SECTION A-A



SECTION B-B

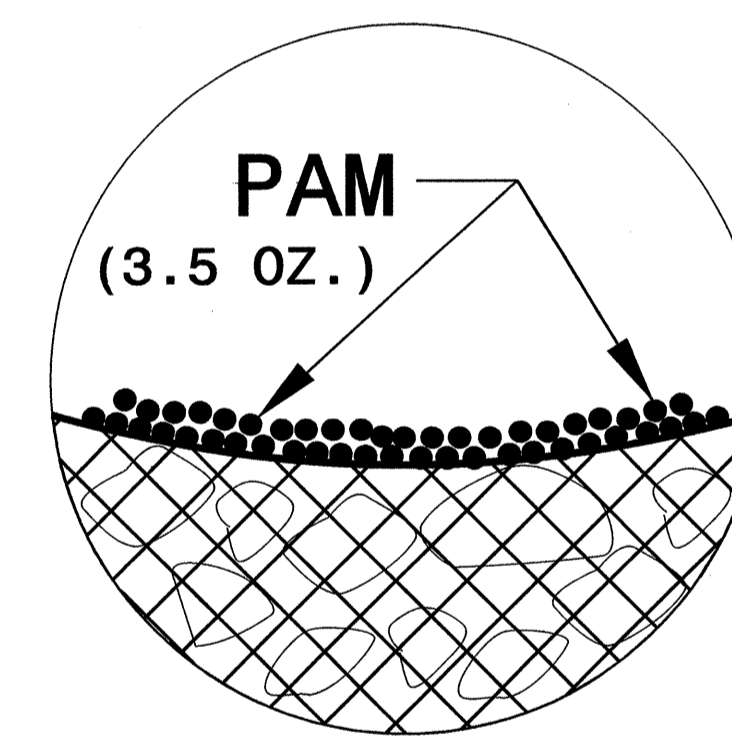
\*T = 12" MIN., 18" MAX.

## 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 3.5 OUNCES OF POLYACRYLAMIDE (PAM) TO TOP OF MATTING SECTION AND AFTER EVERY RAINFALL EVENT THAT EQUALS OR EXCEEDS 0.50 INCHES.

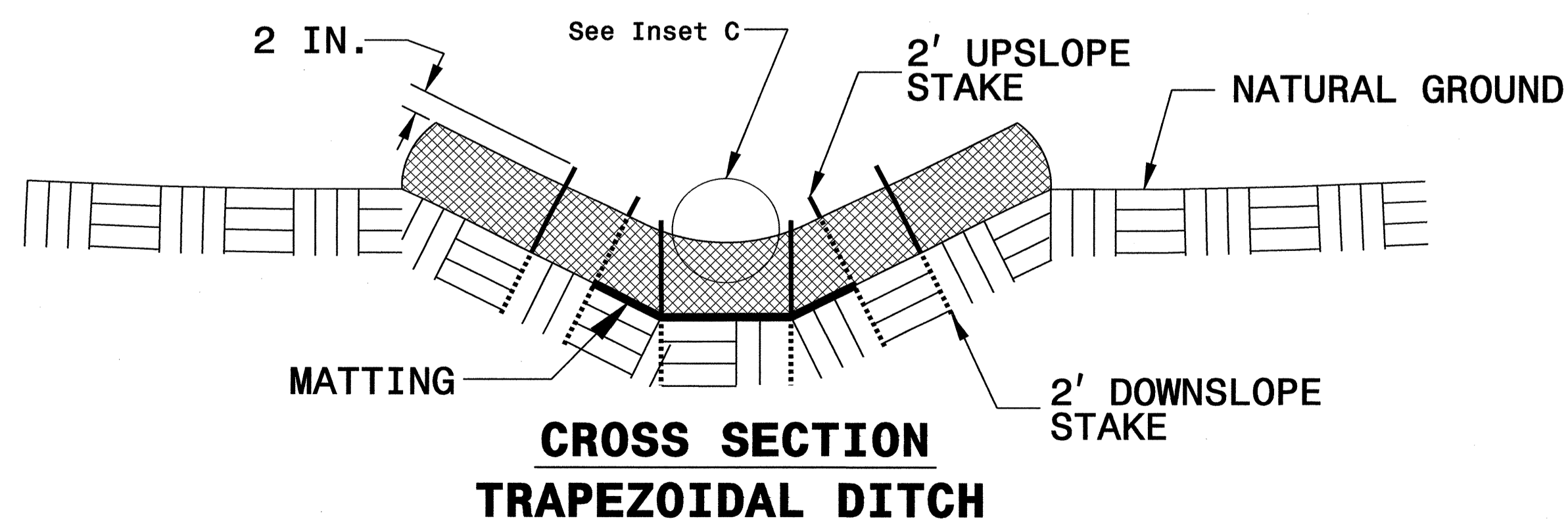
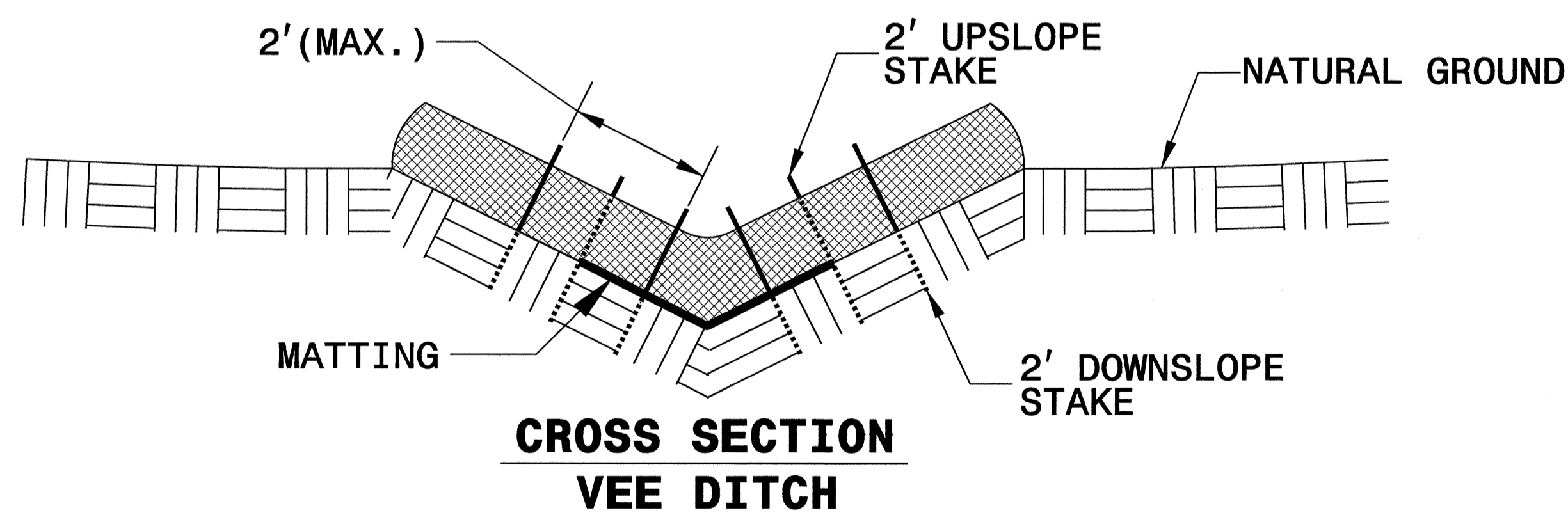
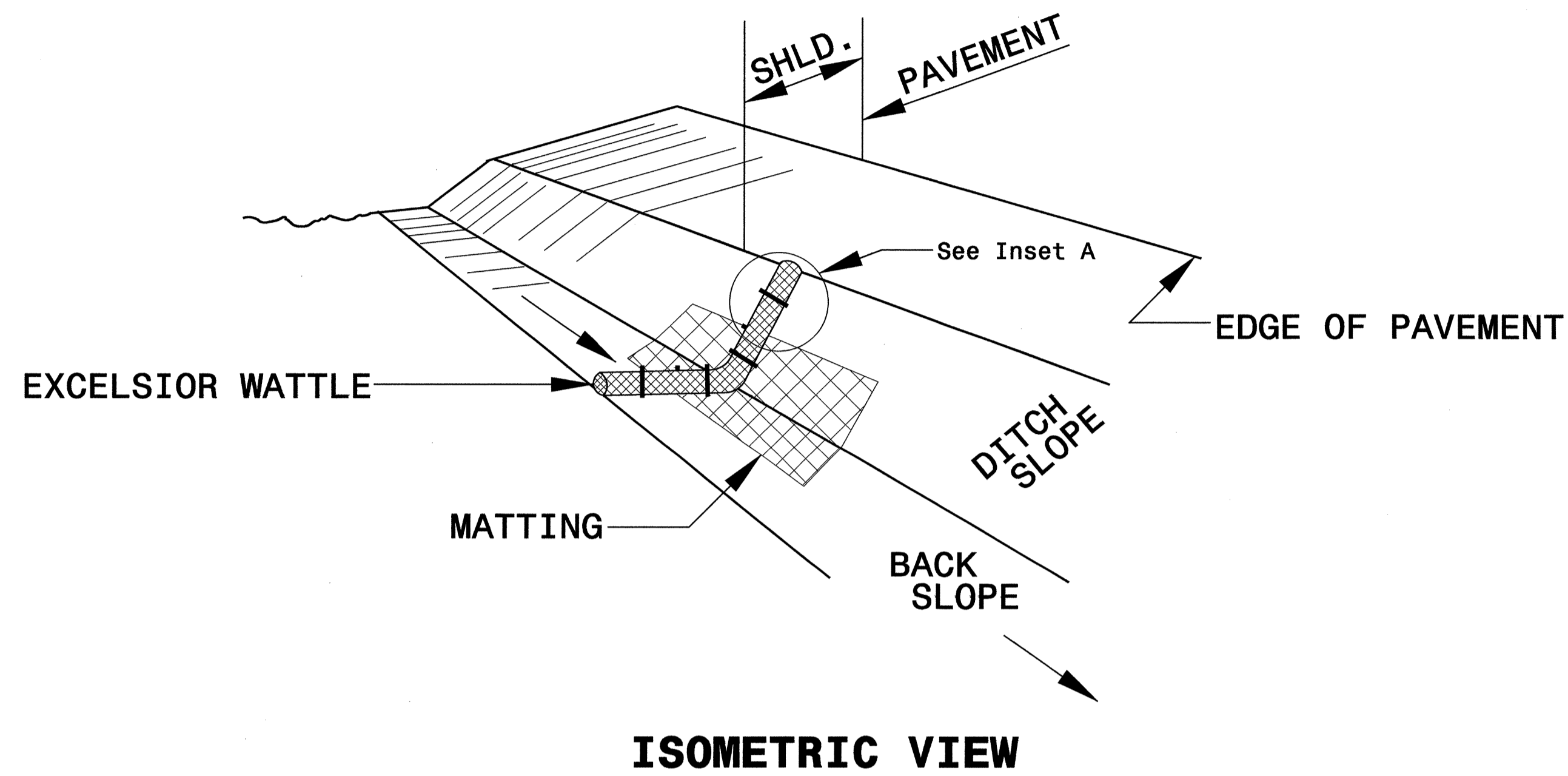


INSET A

NOT TO SCALE

PROJECT REFERENCE NO. R-3403AA	SHEET NO. EC-2D
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.

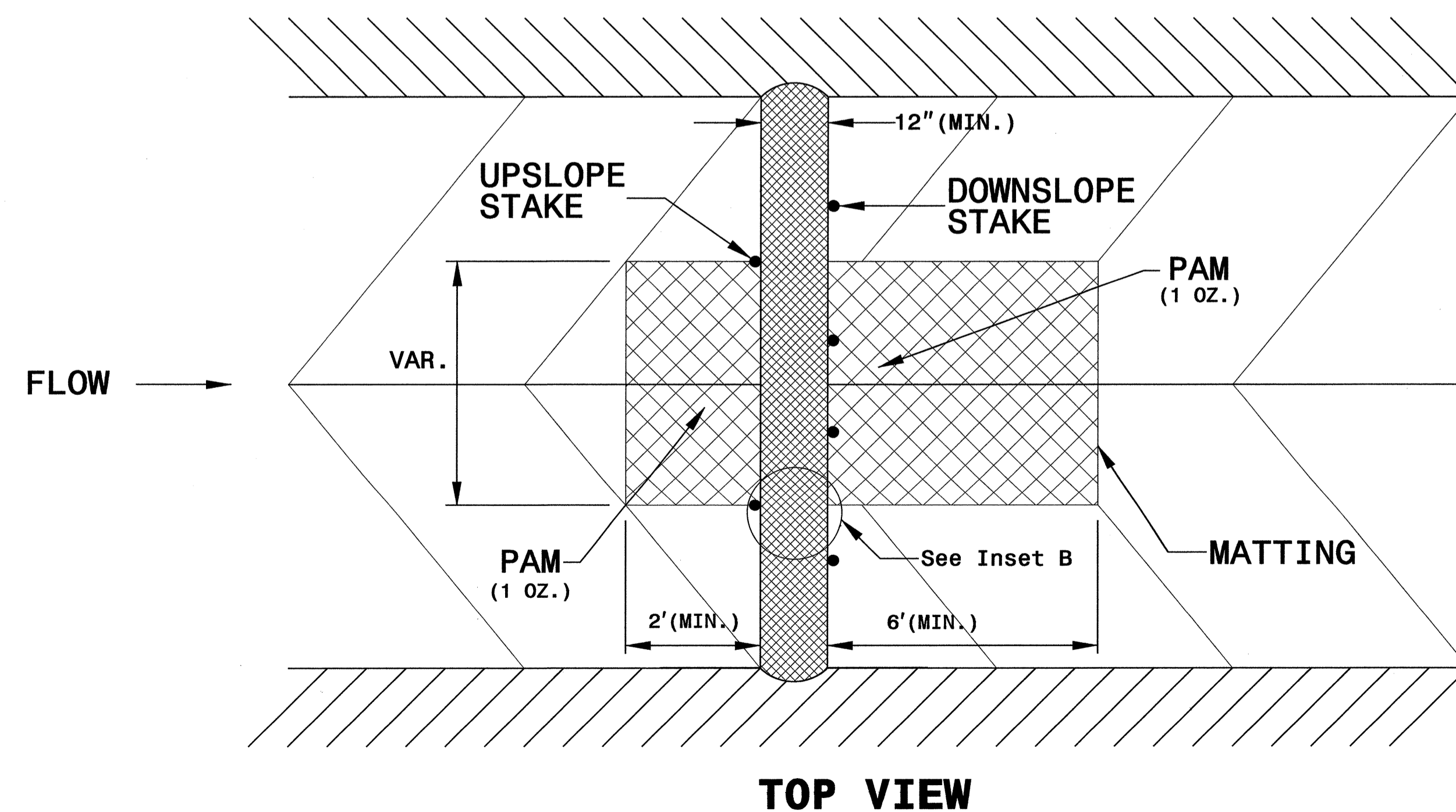
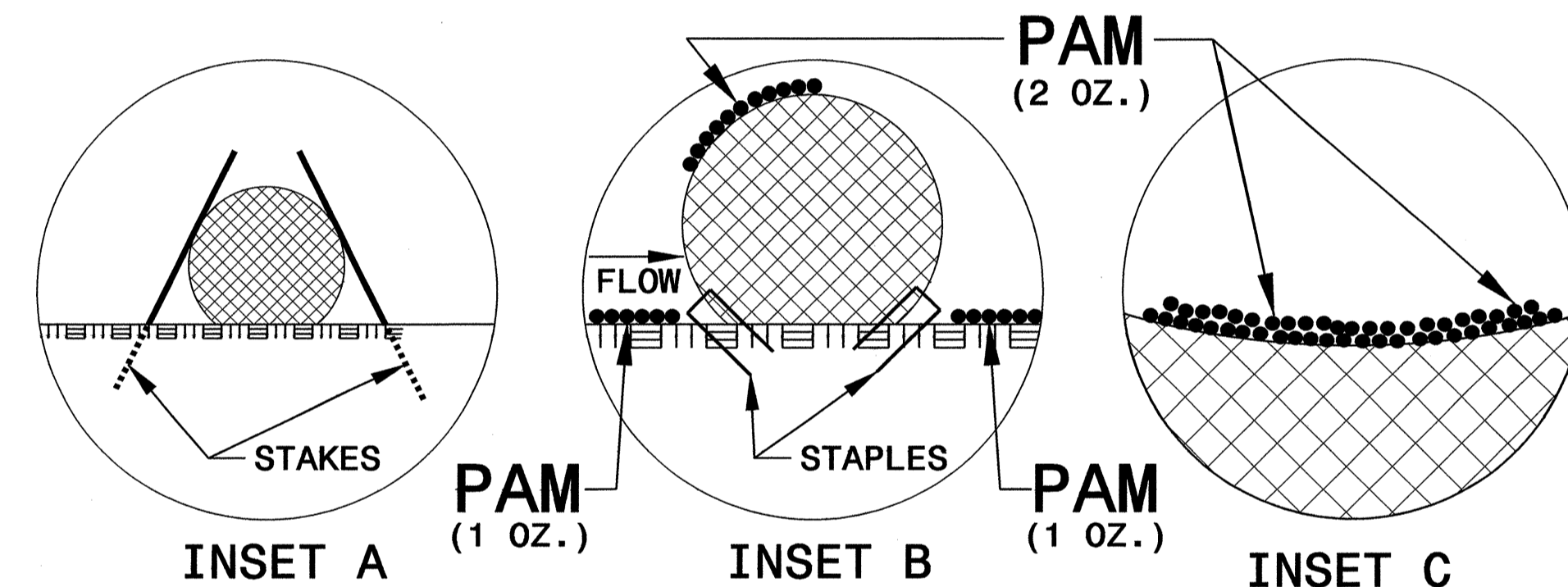
PROVIDE STAPLES MADE OF 0.125 IN. DIAMETER STEEL WIRE FORMED INTO A U SHAPE NOT LESS THAN 12" IN LENGTH.

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.

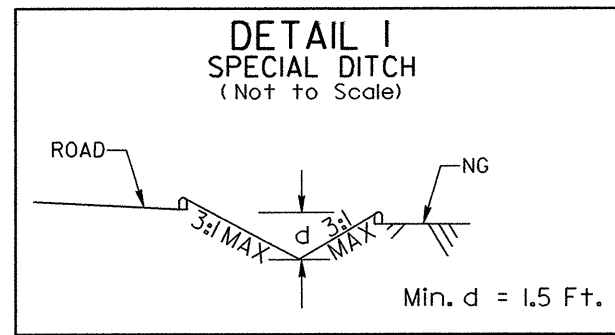
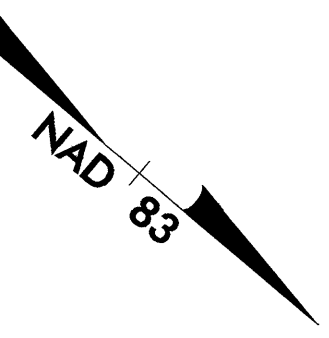
INITIALLY APPLY 2 OUNCES OF ANIONIC OR NEUTRALLY CHARGED PAM OVER WATTLE WHERE WATER WILL FLOW AND 1 OUNCE OF PAM ON MATTING ON EACH SIDE OF WATTLE. REAPPLY PAM AFTER EVERY RAINFALL EVENT THAT IS EQUAL TO OR EXCEEDS 0.50 IN.



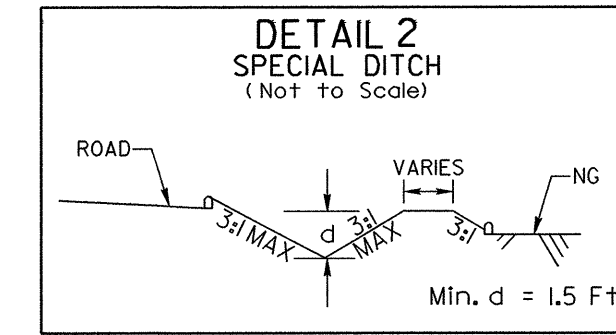
CLEARING AND GRUBBING  
EROSION CONTROL FOR  
CONSTRUCTION SHEET 4

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

NOTE: DRIVE PIPES TO BE RAISED 3-INCHES ABOVE DITCH LINE  
THROUGHOUT PROJECT



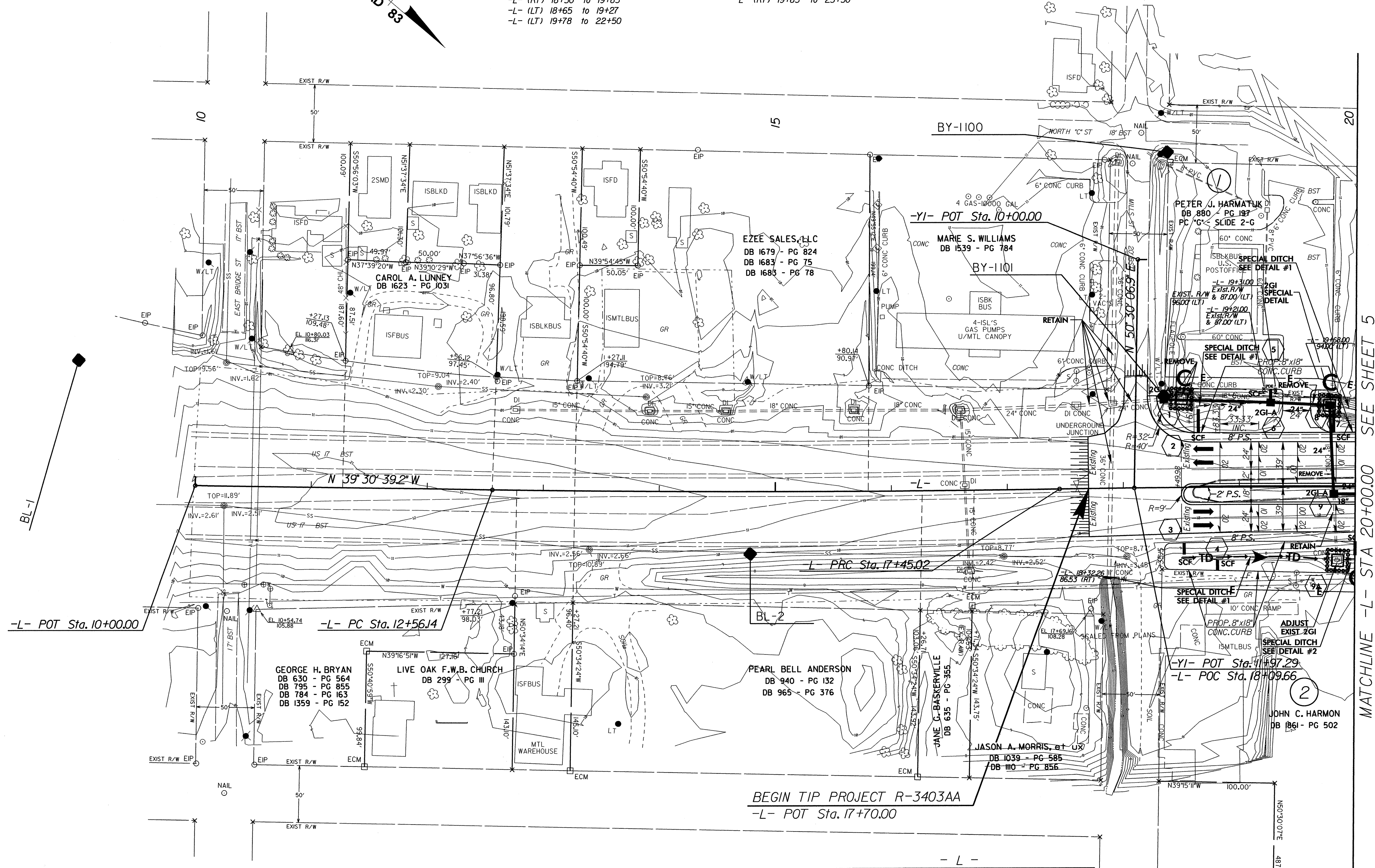
-L- (RT) 18+50 to 19+83  
-L- (LT) 18+65 to 19+27  
-L- (LT) 19+78 to 22+50



-L- (RT) 19+83 to 25+50

SCF = SPECIAL CONCRETE FLUME

PROJECT REFERENCE NO.	SHEET NO.
R-3403AA	EC-3/CONST.4
R-3403A RW SHEET NO. 4	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER



BEGIN TIP PROJECT R-3403AA  
-L- POT Sta. 17+70.00

PI Sta 15+00.60	PI Sta 19+71.52
$\Delta = 1' 45'' 00.0''$ (LT)	$\Delta = 2' 09'' 45.5''$ (RT)
$D = 0' 21'' 28.7''$	$D = 0' 28'' 38.9''$
$L = 488.88'$	$L = 452.94'$
$T = 244.46'$	$T = 226.50'$
$R = 16,006.00'$	$R = 12,000.00'$

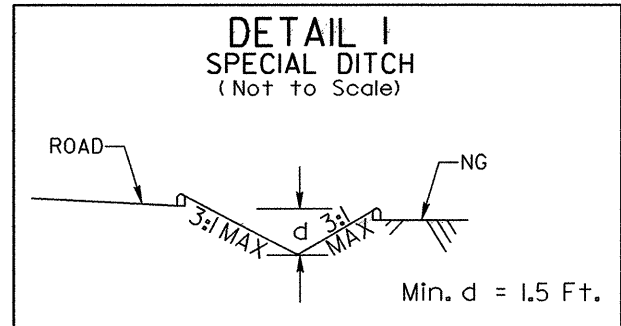
MATCHLINE -L- STA 20+00.00 SEE SHEET 5

8/17/99

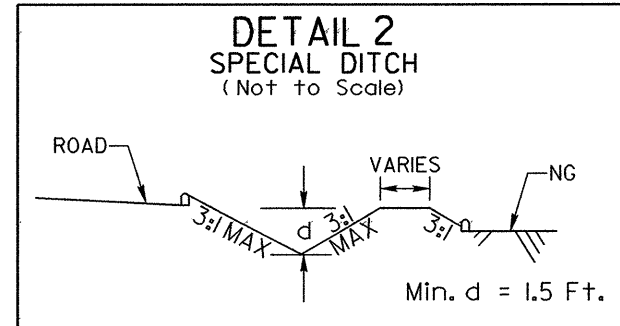
PROJECT REFERENCE NO.	SHEET NO.
R-3403AA	EC-4/CONST.5
R-3403A RW SHEET NO. 5	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

**CLEARING AND GRUBBING  
EROSION CONTROL FOR  
CONSTRUCTION SHEET 5**

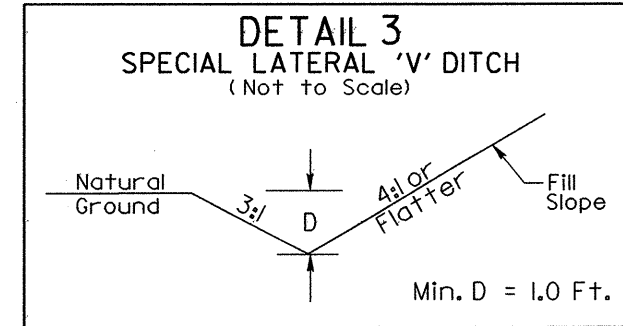
**NOTE:  
PLACE TEMPORARY ROCK SEDIMENT DAMS TYPE - B  
AND TEMPORARY ROCK SILT CHECKS TYPE - A AT  
DRAINAGE OUTLETS.**



- L- (RT) 25+50 TO 26+67
- L- (RT) 27+09 TO 29+85
- L- (LT) 19+78 TO 22+50
- L- (LT) 29+15 TO 31+62
- L- (LT) 33+50 TO 33+75

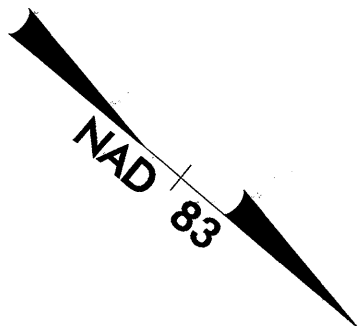


- L- (RT) 19+83 TO 25+50



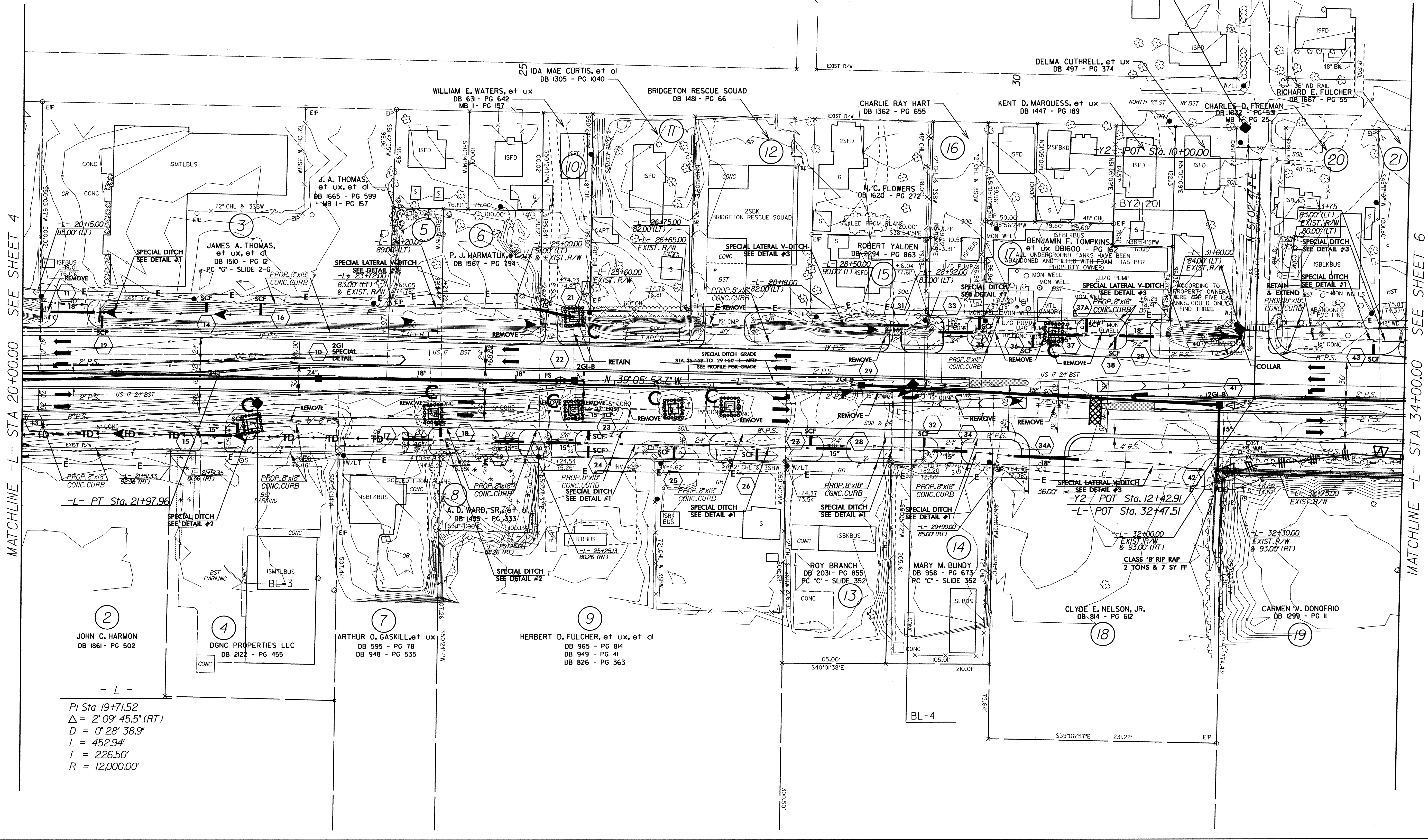
- L- (RT) 29+85 TO 32+13
- L- (LT) 24+00 TO 25+16
- L- (LT) 28+00 TO 29+15
- L- (LT) 31+62 TO 32+00
- L- (LT) 33+75 TO 34+50

SCF = SPECIAL CONCRETE FLUME  
NOTE: DRIVE PIPES TO BE RAISED 3-INCHES ABOVE DITCH LINE THROUGHOUT PROJECT



MATCHLINE -L- STA 20+00.00 SEE SHEET 4

MATCHLINE -L- STA 34+00.00 SEE SHEET 6



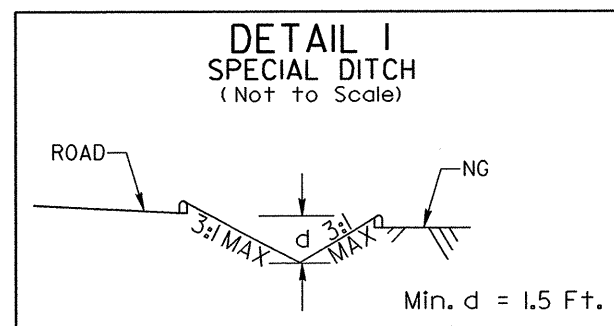
- L -  
PI Sta 19+71.52  
Δ = 2° 09' 45.5" (RT)  
D = 0° 28' 38.9"  
L = 452.94'  
T = 226.50'  
R = 12,000.00'

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M:\GIS\247778



CLEARING AND GRUBBING  
EROSION CONTROL FOR  
CONSTRUCTION SHEET 6

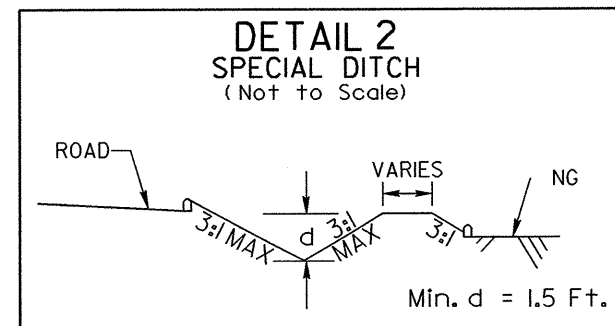
NOTE:  
PLACE TEMPORARY ROCK SEDIMENT DAMS TYPE - B  
AND TEMPORARY ROCK SILT CHECKS TYPE - A AT  
DRAINAGE OUTLETS.



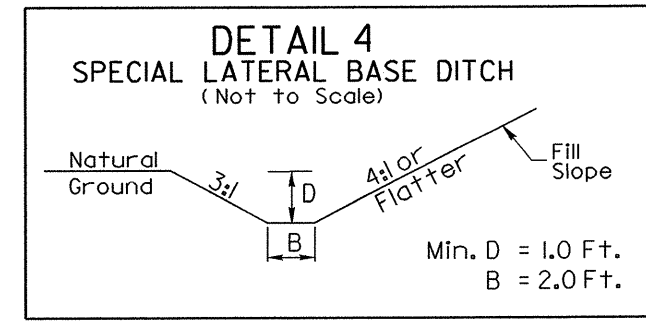
-L- (RT) 38+00 TO 41+50  
-L- (RT) 45+23 TO 46+60

SPECIAL DITCH GRADE  
SEE PROFILE FOR GRADE

-L- (Median) 37+74 TO 39+67  
-L- (RT) 37+00 TO 37+50



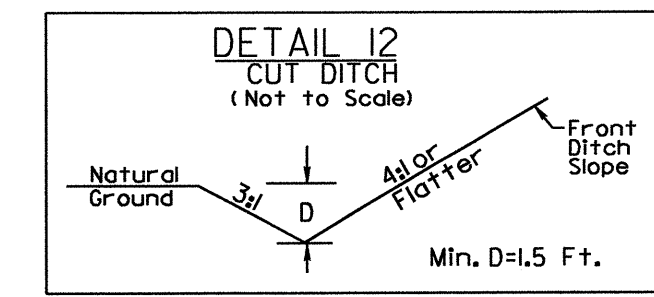
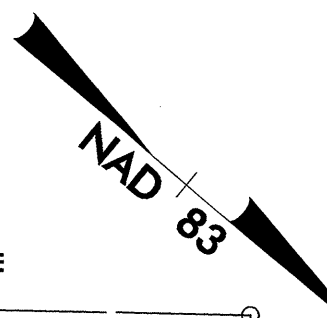
-L- (RT) 42+85 TO 44+00



-L- (LT) 37+75 TO 39+66  
-L- (LT) 39+70 TO 44+00

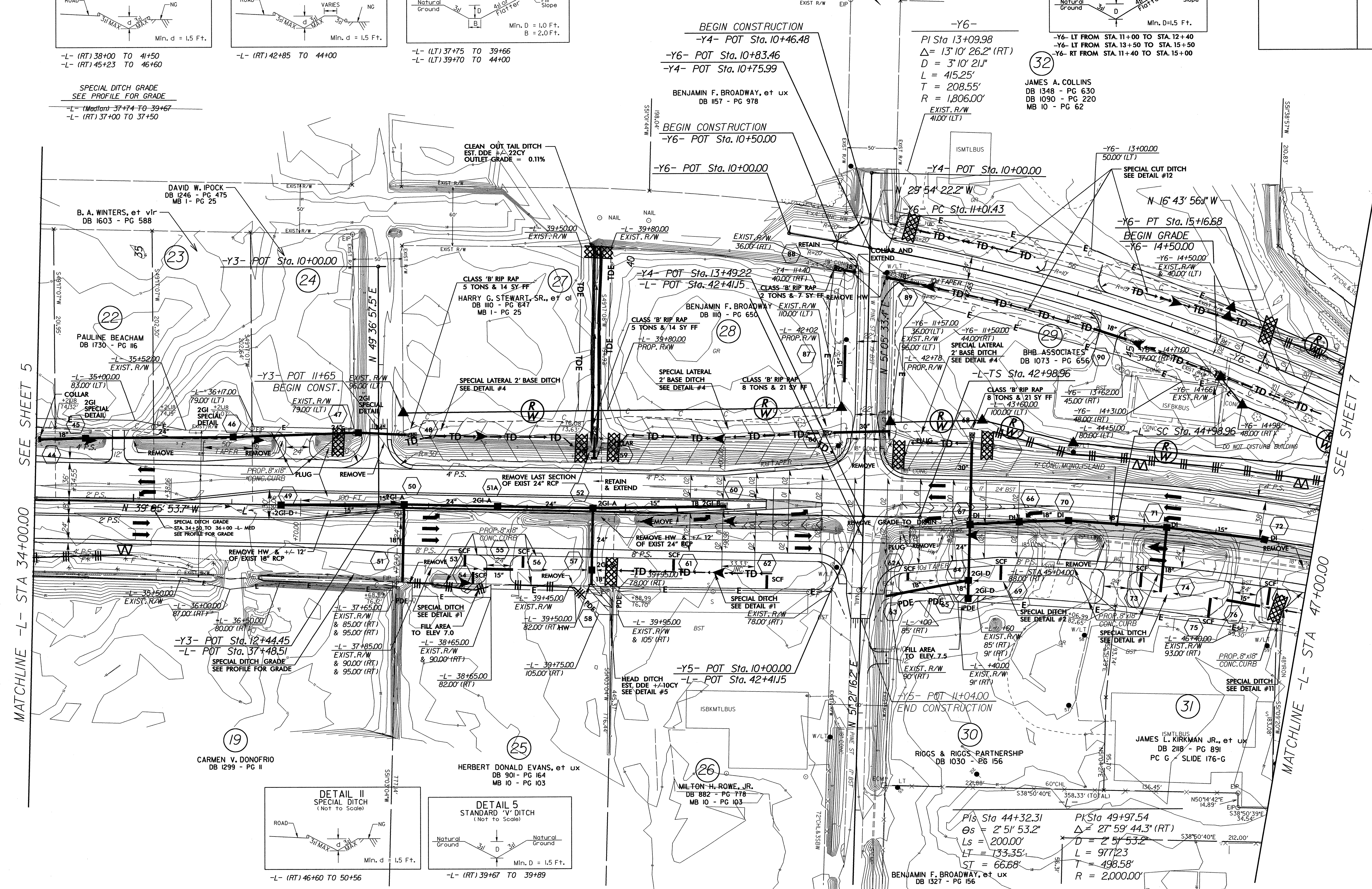
SCF = SPECIAL CONCRETE FLUME

NOTE: DRIVE PIPES TO BE RAISED 3-INCHES ABOVE DITCH LINE  
THROUGHOUT PROJECT



-Y6- LT FROM STA. 11+00 TO STA. 12+40  
-Y6- LT FROM STA. 13+50 TO STA. 15+50  
-Y6- RT FROM STA. 11+40 TO STA. 15+00

32  
JAMES A. COLLINS  
DB 1348 - PG 630  
DB 1090 - PG 220  
MB 10 - PG 62



SEE SHEET 5

MATCHLINE -L- STA 34+00.00

SEE SHEET 7

MATCHLINE -L- STA 47+00.00

MATCHLINE -L- STA 34+00.00

MATCHLINE -L- STA 47+00.00

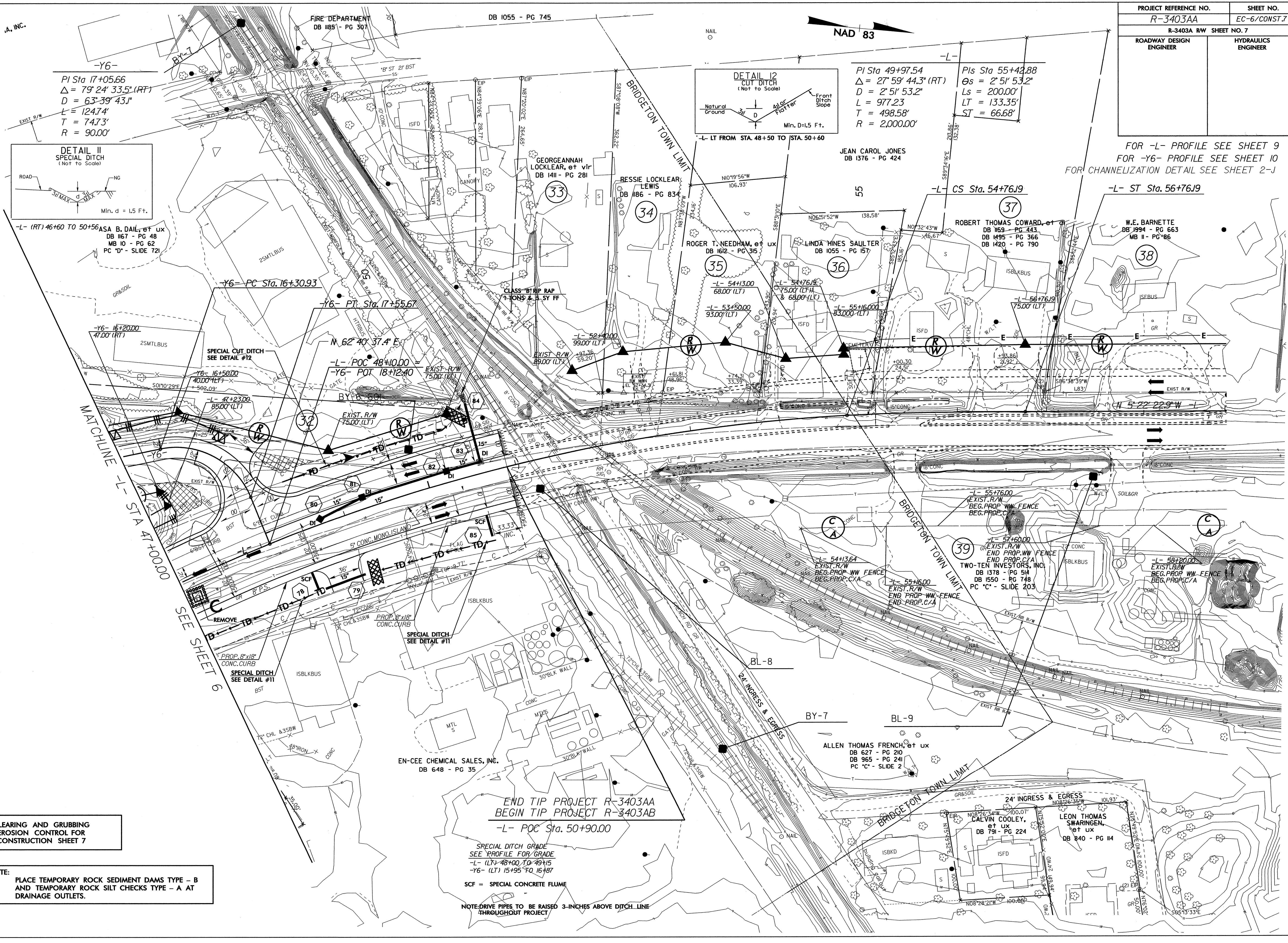
PROJECT REFERENCE NO.	SHEET NO.
R-3403AA	EC-5/CONST.6
R-3403A RW SHEET NO. 6	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

8/17/99

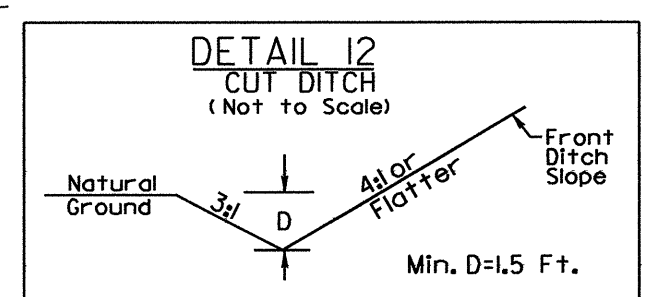
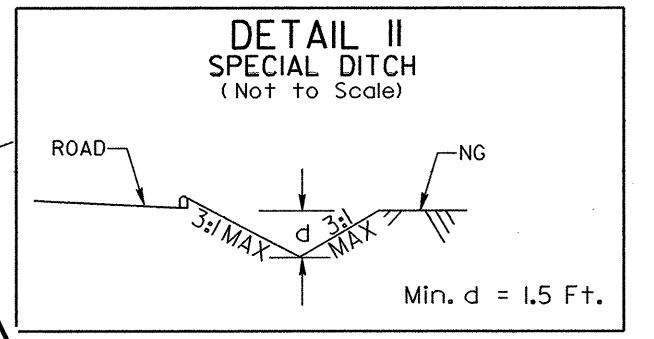
A, INC.

PROJECT REFERENCE NO.	SHEET NO.
R-3403AA	EC-6/CONST.7
R-3403A RW SHEET NO. 7	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

FOR -L- PROFILE SEE SHEET 9  
 FOR -Y6- PROFILE SEE SHEET 10  
 FOR CHANNELIZATION DETAIL SEE SHEET 2-J



PI Sta 17+05.66  
 $\Delta = 79^\circ 24' 33.5''$  (RT)  
 $D = 63.39' 43.1''$   
 $L = 124.74'$   
 $T = 74.73'$   
 $R = 90.00'$



PI Sta 49+97.54  
 $\Delta = 27^\circ 59' 44.3''$  (RT)  
 $D = 2' 51' 53.2''$   
 $L = 977.23'$   
 $T = 498.58'$   
 $R = 2,000.00'$

PIs Sta 55+43.88  
 $\Theta_s = 2' 51' 53.2''$   
 $L_s = 200.00'$   
 $LT = 133.35'$   
 $ST = 66.68'$

-L- (RT) 46+60 TO 50+56  
 ASA B. DAIL, et ux  
 DB 167 - PG 48  
 MB 10 - PG 62  
 PC 'D' - SLIDE 721

-Y6- PC Sta. 16+30.93  
 -Y6- 16+20.00  
 47.00' (RT)

-L- (RT) 47+23.00  
 85.00' (LT)

-L- 47+50.00  
 40.00' (LT)

-L- 47+50.00  
 85.00' (LT)

-L- 47+50.00  
 85.00' (LT)

-L- 47+50.00  
 85.00' (LT)

-L- 47+50.00  
 85.00' (LT)

-L- 47+50.00  
 85.00' (LT)

-L- 47+50.00  
 85.00' (LT)

-L- 47+50.00  
 85.00' (LT)

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.

END TIP PROJECT R-3403AA  
 BEGIN TIP PROJECT R-3403AB  
 -L- POC Sta. 50+90.00

SPECIAL DITCH GRADE  
 SEE PROFILE FOR GRADE  
 -L- (LT) 48+00 TO 49+15  
 -Y6- (LT) 15+95 TO 16+187

SCF = SPECIAL CONCRETE FLUME  
 NOTE: DRIVE PIPES TO BE RAISED 3-INCHES ABOVE DITCH LINE  
 THROUGHOUT PROJECT

JEAN CAROL JONES  
 DB 1376 - PG 424

ROBERT THOMAS COWARD, et ux  
 DB 169 - PG 443  
 DB 1495 - PG 366  
 DB 1420 - PG 790

W.E. BARNETTE  
 DB 1994 - PG 663  
 MB 11 - PG 86

ALLEN THOMAS FRENCH, et ux  
 DB 627 - PG 210  
 DB 965 - PG 241  
 PC 'C' - SLIDE 2

CALVIN COOLEY,  
 et ux  
 DB 791 - PG 224

LEON THOMAS SWARINGEN,  
 et ux  
 DB 840 - PG 114

MATCHLINE -L- STA 14+00.00  
 SEE SHEET 6

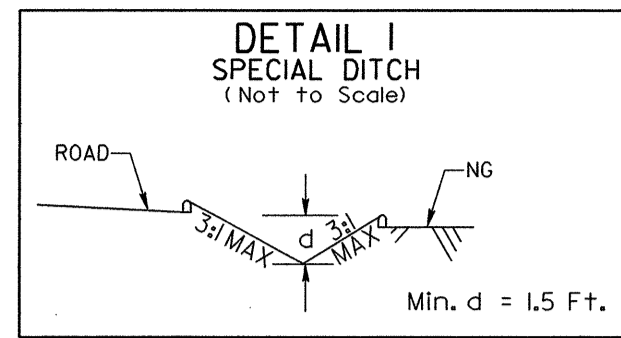
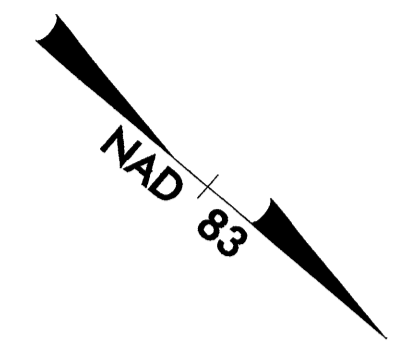
BRIDGETON TOWN LIMIT

BRIDGETON TOWN LIMIT

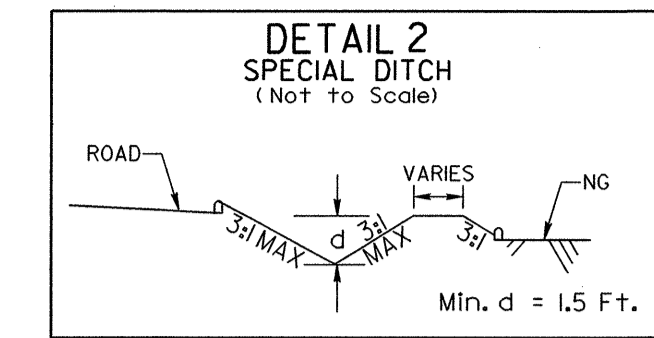
8/17/99

PROJECT REFERENCE NO.	SHEET NO.
R-3403AA	EC-7/CONST.4
R-3403A RW SHEET NO. 4	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

NOTE: DRIVE PIPES TO BE RAISED 3-INCHES ABOVE DITCH LINE THROUGHOUT PROJECT

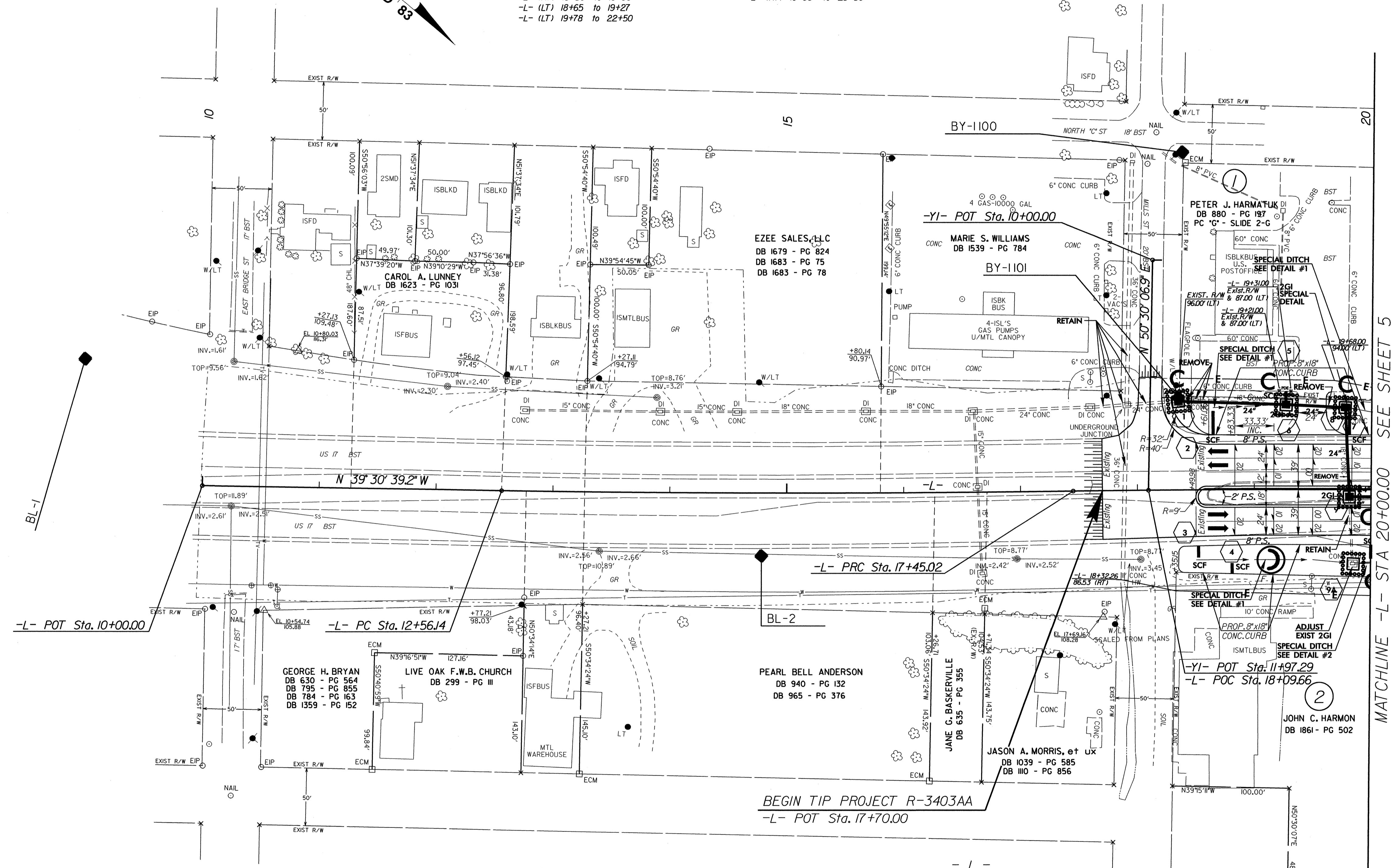


-L- (RT) 18+50 to 19+83  
 -L- (LT) 18+65 to 19+27  
 -L- (LT) 19+78 to 22+50



-L- (RT) 19+83 to 25+50

SCF = SPECIAL CONCRETE FLUME



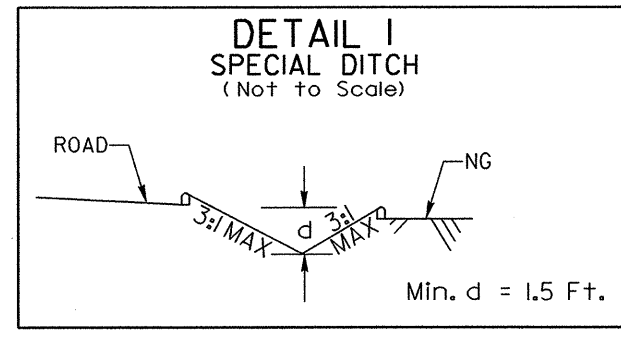
BEGIN TIP PROJECT R-3403AA  
 -L- POT Sta. 17+70.00

PI Sta 15+00.60	PI Sta 19+71.52
$\Delta = 1' 45'' 00.0''$ (LT)	$\Delta = 2' 09'' 45.5''$ (RT)
$D = 0' 21'' 28.7''$	$D = 0' 28'' 38.9''$
$L = 488.88'$	$L = 452.94'$
$T = 244.46'$	$T = 226.50'$
$R = 16,006.00'$	$R = 12,000.00'$

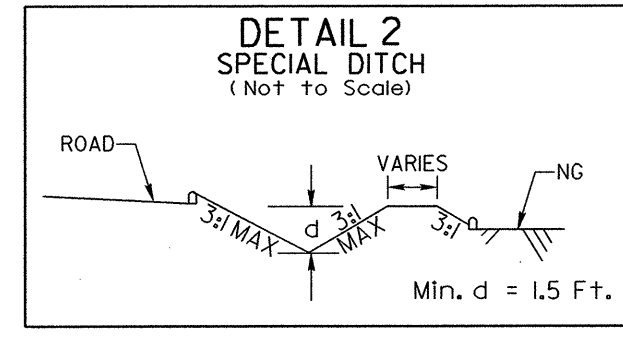
MATCHLINE -L- STA 20+00.00 SEE SHEET 5

JOHN C. HARMON  
DB 1861 - PG 502

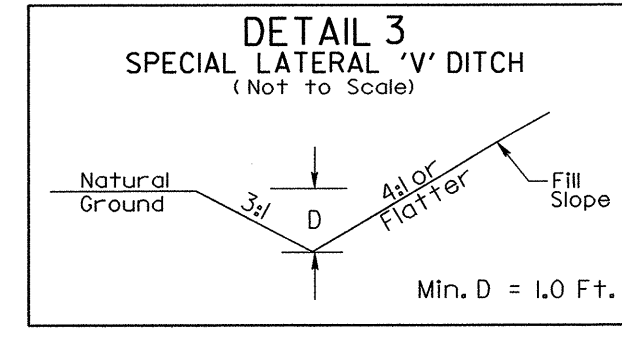
PROJECT REFERENCE NO.	SHEET NO.
R-3403AA	EC-8/CONST.5
R-3403A RW SHEET NO. 5	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER



- L- (RT) 25+50 TO 26+67
- L- (RT) 27+09 TO 29+85
- L- (LT) 19+78 TO 22+50
- L- (LT) 29+15 TO 31+62
- L- (LT) 33+50 TO 33+75

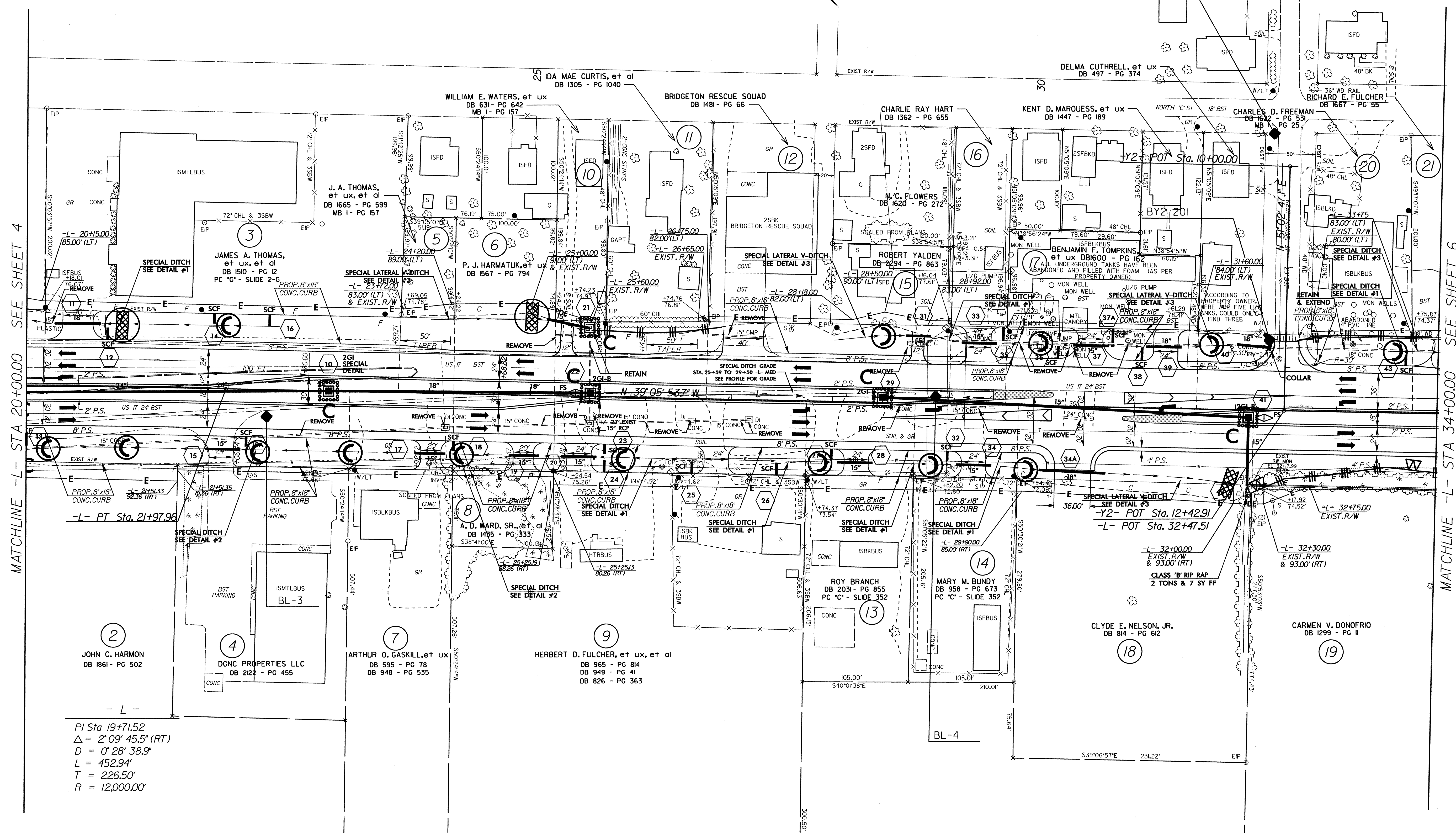
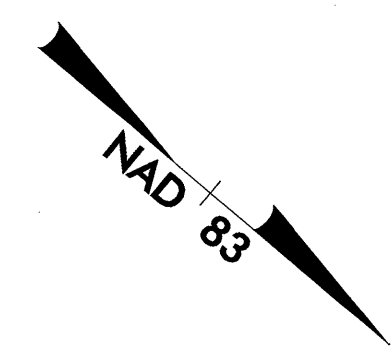


- L- (RT) 19+83 TO 25+50



- L- (RT) 29+85 TO 32+13
- L- (LT) 24+00 TO 25+16
- L- (LT) 28+00 TO 29+15
- L- (LT) 31+62 TO 32+00
- L- (LT) 33+75 TO 34+50

SCF = SPECIAL CONCRETE FLUME  
 NOTE: DRIVE PIPES TO BE RAISED 3-INCHES ABOVE DITCH LINE THROUGHOUT PROJECT



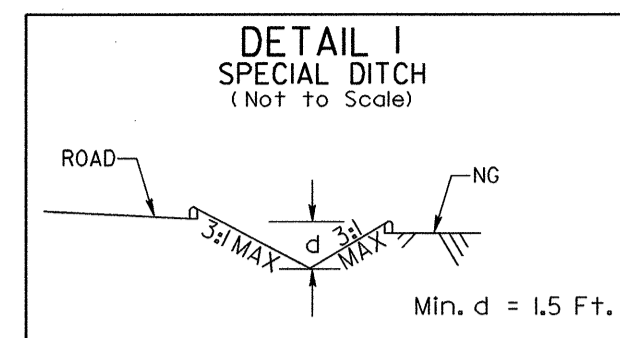
MATCHLINE -L- STA 20+00.00 SEE SHEET 4

MATCHLINE -L- STA 34+00.00 SEE SHEET 6

- L -  
 PI Sta 19+71.52  
 $\Delta = 2' 09' 45.5''$  (RT)  
 $D = 0' 28' 38.9''$   
 $L = 452.94'$   
 $T = 226.50'$   
 $R = 12,000.00'$

8/17/09  
 R:\JUL-2006\5410\5410.dgn  
 R:\JUL-2006\5410\5410.dgn  
 R:\JUL-2006\5410\5410.dgn  
 R:\JUL-2006\5410\5410.dgn  
 R:\JUL-2006\5410\5410.dgn

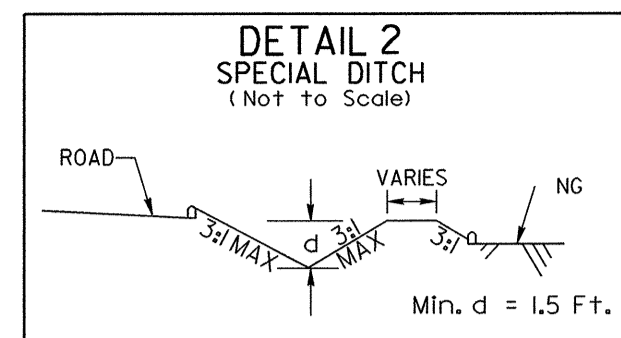
PROJECT REFERENCE NO.	SHEET NO.
R-3403AA	EC-9/CONST.6
R-3403A RW SHEET NO. 6	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER



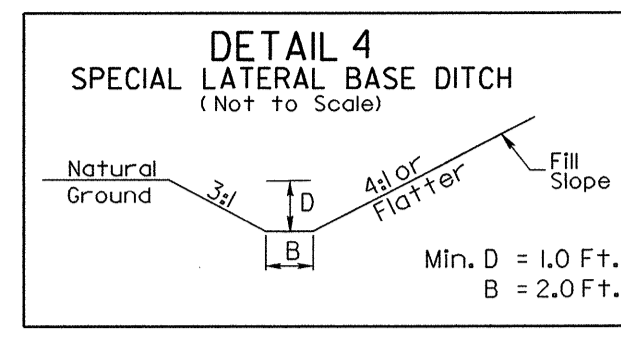
-L- (RT) 38+00 TO 41+50  
-L- (RT) 45+23 TO 46+60

SPECIAL DITCH GRADE  
SEE PROFILE FOR GRADE

-L- (Median) 37+74 TO 39+67  
-L- (RT) 37+00 TO 37+50

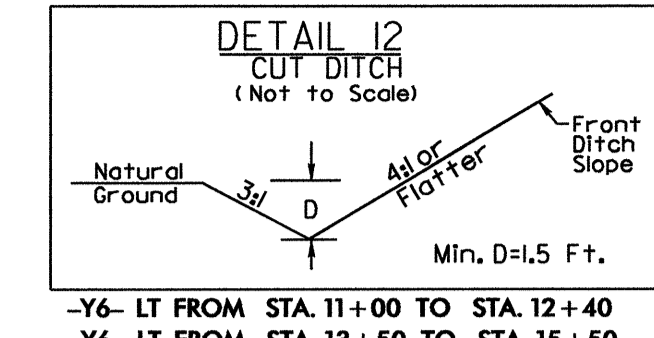


-L- (RT) 42+85 TO 44+00



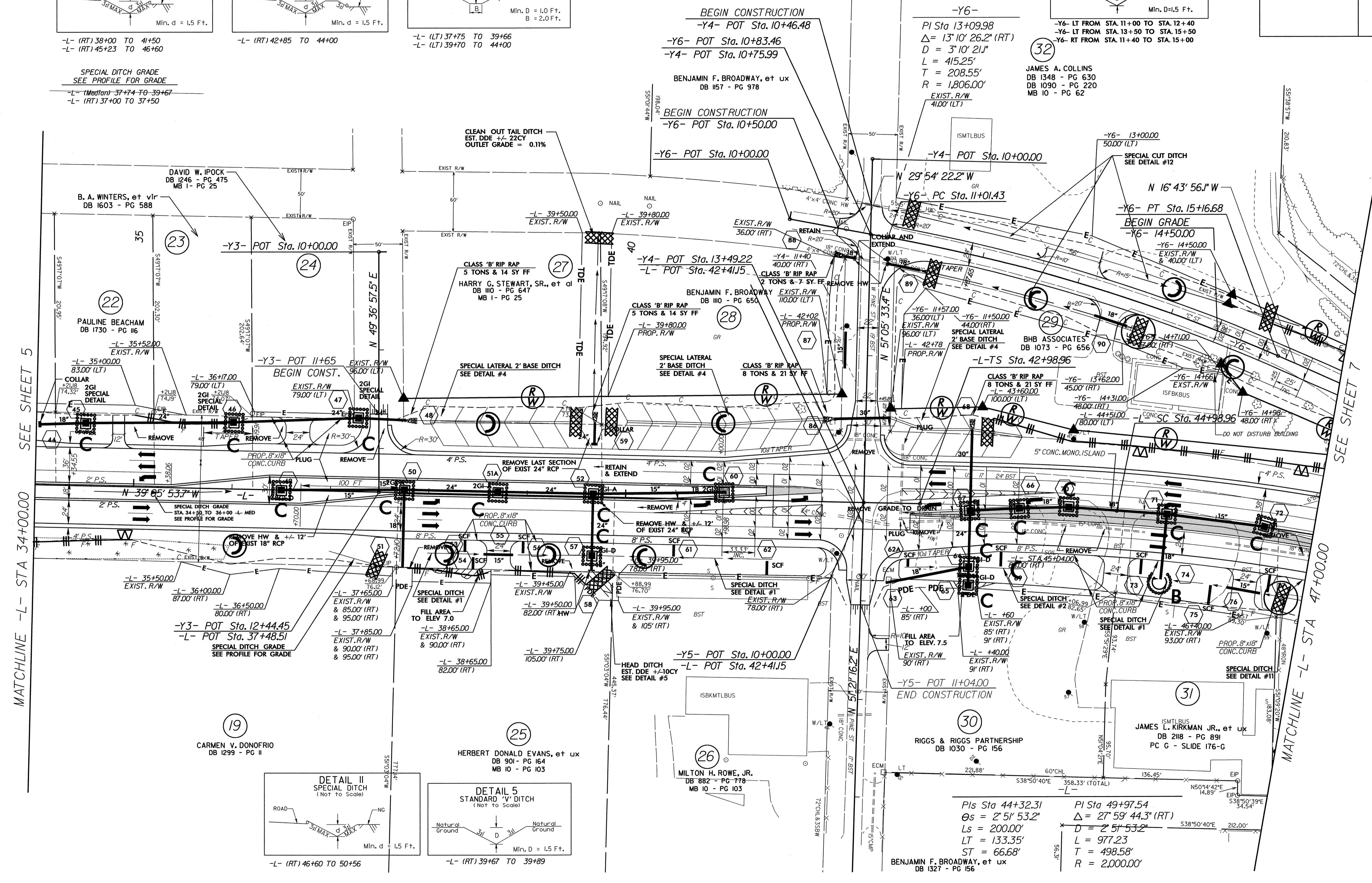
-L- (LT) 37+75 TO 39+66  
-L- (LT) 39+70 TO 44+00

SCF = SPECIAL CONCRETE FLUME  
NOTE-DRIVE PIPES TO BE RAISED 3-INCHES ABOVE DITCH LINE THROUGHOUT PROJECT



-Y6- LT FROM STA. 11+00 TO STA. 12+40  
-Y6- LT FROM STA. 13+50 TO STA. 15+50  
-Y6- RT FROM STA. 11+40 TO STA. 15+00

JAMES A. COLLINS  
DB 1348 - PG 630  
DB 1090 - PG 220  
MB 10 - PG 62



SEE SHEET 5

MATCHLINE -L- STA 34+00.00

SEE SHEET 7

MATCHLINE -L- STA 47+00.00

DAVID W. IPOCK  
DB 1246 - PG 475  
MB 1 - PG 25

B. A. WINTERS, et vir  
DB 1603 - PG 588

PAULINE BEACHAM  
DB 1730 - PG 116

-L- 35+52.00  
EXIST. R/W

-L- 36+17.00  
79.00' (LT)

-L- 37+16.00  
EXIST. R/W & 85.00' (RT) & 95.00' (RT)

-Y3- POT Sta. 12+44.45  
-L- POT Sta. 37+48.51  
SPECIAL DITCH GRADE  
SEE PROFILE FOR GRADE

-L- 35+50.00  
EXIST. R/W

-L- 36+00.00  
87.00' (RT)

-L- 36+50.00  
80.00' (RT)

-L- 37+85.00  
EXIST. R/W & 90.00' (RT) & 95.00' (RT)

-L- 38+65.00  
EXIST. R/W & 90.00' (RT)

-L- 39+45.00  
EXIST. R/W

-L- 39+50.00  
82.00' (RT) HW

-L- 39+95.00  
EXIST. R/W & 105' (RT)

-L- 38+65.00  
82.00' (RT)

-L- 39+75.00  
105.00' (RT)

-L- 39+95.00  
EXIST. R/W

-L- 39+95.00  
EXIST. R/W & 105' (RT)

-L- 39+95.00  
EXIST. R/W

-L- 39+95.00  
EXIST. R/W

-L- 39+95.00  
EXIST. R/W

-L- 39+95.00  
EXIST. R/W

DAVID W. IPOCK  
DB 1246 - PG 475  
MB 1 - PG 25

B. A. WINTERS, et vir  
DB 1603 - PG 588

PAULINE BEACHAM  
DB 1730 - PG 116

-L- 35+52.00  
EXIST. R/W

-L- 36+17.00  
79.00' (LT)

-L- 37+16.00  
EXIST. R/W & 85.00' (RT) & 95.00' (RT)

-Y3- POT Sta. 12+44.45  
-L- POT Sta. 37+48.51  
SPECIAL DITCH GRADE  
SEE PROFILE FOR GRADE

-L- 35+50.00  
EXIST. R/W

-L- 36+00.00  
87.00' (RT)

-L- 36+50.00  
80.00' (RT)

-L- 37+85.00  
EXIST. R/W & 90.00' (RT) & 95.00' (RT)

-L- 38+65.00  
EXIST. R/W & 90.00' (RT)

-L- 39+45.00  
EXIST. R/W

-L- 39+50.00  
82.00' (RT) HW

-L- 39+95.00  
EXIST. R/W & 105' (RT)

-L- 38+65.00  
82.00' (RT)

-L- 39+75.00  
105.00' (RT)

-L- 39+95.00  
EXIST. R/W

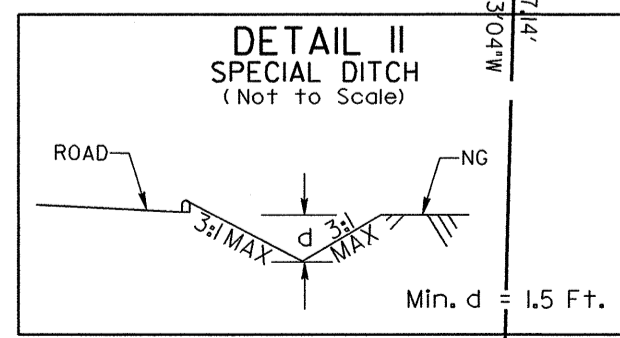
-L- 39+95.00  
EXIST. R/W & 105' (RT)

-L- 39+95.00  
EXIST. R/W

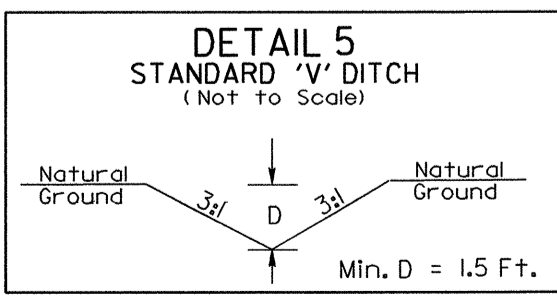
-L- 39+95.00  
EXIST. R/W

-L- 39+95.00  
EXIST. R/W

-L- 39+95.00  
EXIST. R/W



-L- (RT) 46+60 TO 50+56



-L- (RT) 39+67 TO 39+89

CARMEN V. DONOFRIO  
DB 1299 - PG 11

HERBERT DONALD EVANS, et ux  
DB 901 - PG 164  
MB 10 - PG 103

MILTON H. ROWE, JR.  
DB 882 - PG 778  
MB 10 - PG 103

RIGGS & RIGGS PARTNERSHIP  
DB 1030 - PG 156

JAMES L. KIRKMAN, JR., et ux  
DB 218 - PG 891  
PC G - SLIDE 176-G

PI Sta 44+32.31  
Os = 2' 51' 53.2"  
Ls = 200.00'  
LT = 133.35'  
ST = 66.68'

PI Sta 49+97.54  
Delta = 27' 59' 44.3" (RT)  
D = 2' 51' 53.2"  
L = 977.23  
T = 498.58'  
R = 2,000.00'

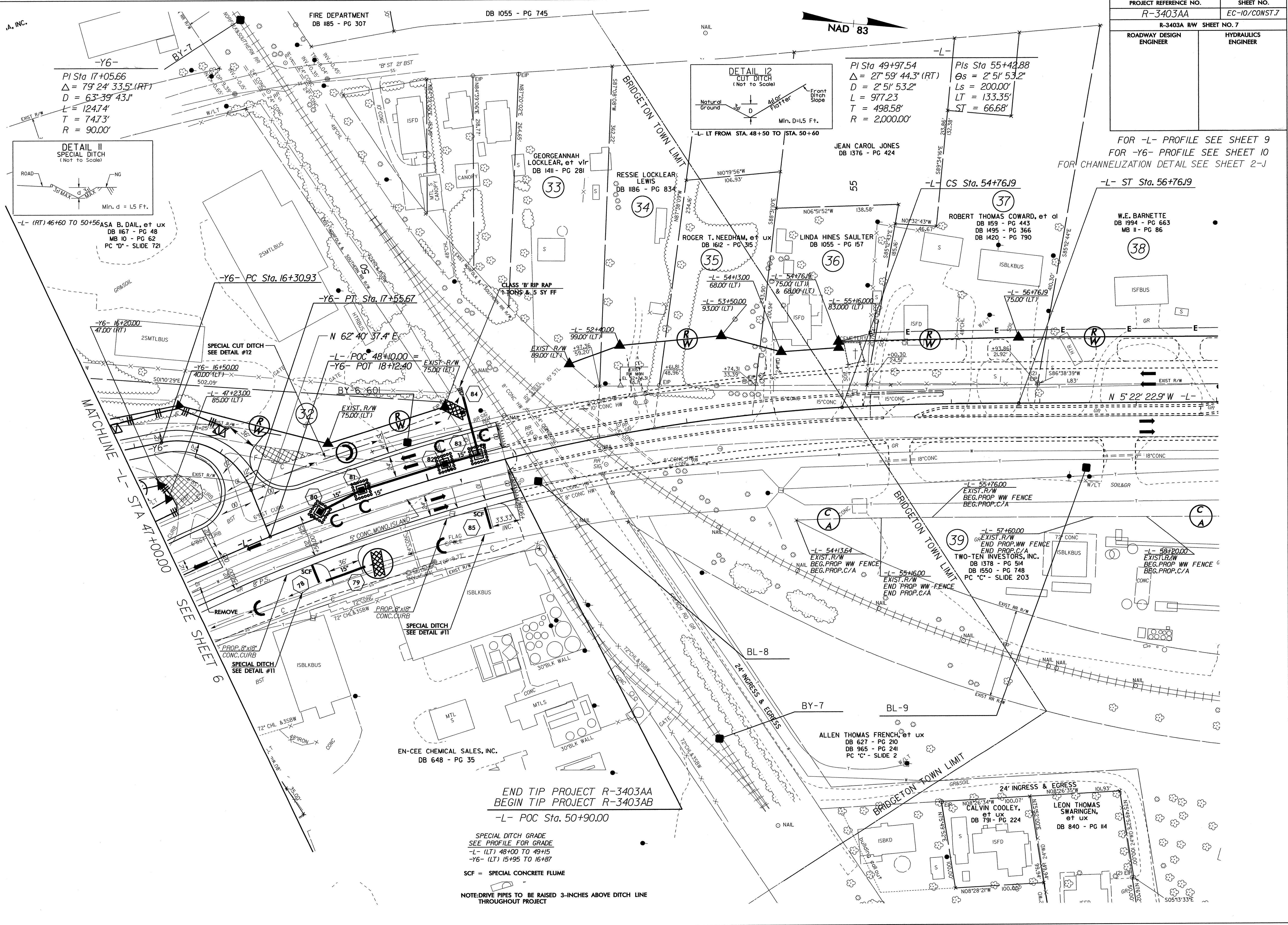
BENJAMIN F. BROADWAY, et ux  
DB 1327 - PG 156

8/17/99

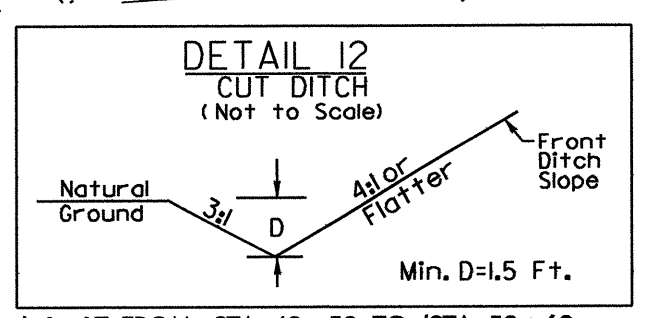
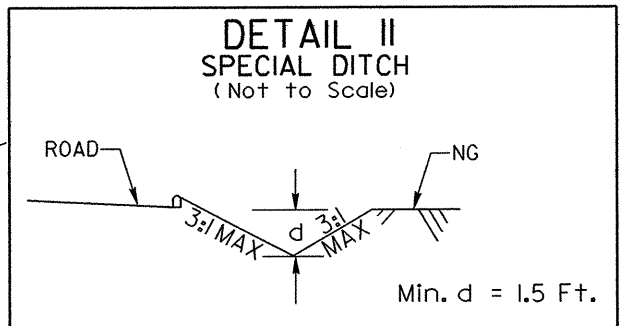
A, INC.

PROJECT REFERENCE NO. R-3403AA	SHEET NO. EC-10/CONST.7
R-3403A RW SHEET NO. 7	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

FOR -L- PROFILE SEE SHEET 9  
 FOR -Y6- PROFILE SEE SHEET 10  
 FOR CHANNELIZATION DETAIL SEE SHEET 2-J



-Y6-  
 PI Sta 17+05.66  
 $\Delta = 79^{\circ}24'33.5''$  (RT)  
 $D = 63^{\circ}39'43.1''$   
 $L = 124.74'$   
 $T = 74.73'$   
 $R = 90.00'$



PI Sta 49+97.54  
 $\Delta = 27^{\circ}59'44.3''$  (RT)  
 $D = 2^{\circ}51'53.2''$   
 $L = 977.23'$   
 $T = 498.58'$   
 $R = 2,000.00'$

PIs Sta 55+42.88  
 $\Delta s = 2^{\circ}51'53.2''$   
 $Ls = 200.00'$   
 $LT = 133.35'$   
 $ST = 66.68'$

-L- (RT) 46+60 TO 50+56  
 ASA B. DAIL, et ux  
 DB 167 - PG 48  
 MB 10 - PG 62  
 PC "D" - SLIDE 721

MATCHLINE -L- STA 47+00.00  
 SEE SHEET 6

END TIP PROJECT R-3403AA  
 BEGIN TIP PROJECT R-3403AB  
 -L- POC Sta. 50+90.00

SPECIAL DITCH GRADE  
 SEE PROFILE FOR GRADE  
 -L- (LT) 48+00 TO 49+15  
 -Y6- (LT) 15+95 TO 16+87

SCF = SPECIAL CONCRETE FLUME

NOTE: DRIVE PIPES TO BE RAISED 3-INCHES ABOVE DITCH LINE THROUGHOUT PROJECT

NAD 83

FIRE DEPARTMENT DB 185 - PG 307

DB 1055 - PG 745

JEAN CAROL JONES DB 1376 - PG 424

GEORGEANNAH LOCKLEAR, et ux DB 1411 - PG 281

RESSIE LOCKLEAR LEWIS DB 1186 - PG 834

ROGER T. NEEDHAM, et ux DB 1612 - PG 315

LINDA HINES SAULTER DB 1055 - PG 157

ROBERT THOMAS COWARD, et ux DB 159 - PG 443 DB 1495 - PG 366 DB 1420 - PG 790

W.E. BARNETTE DB 1994 - PG 663 MB 11 - PG 86

EN-CEE CHEMICAL SALES, INC. DB 648 - PG 35

ALLEN THOMAS FRENCH, et ux DB 627 - PG 210 DB 965 - PG 241 PC "C" - SLIDE 2

CALVIN COOLEY, et ux DB 791 - PG 224

LEON THOMAS SWARINGEN, et ux DB 840 - PG 114