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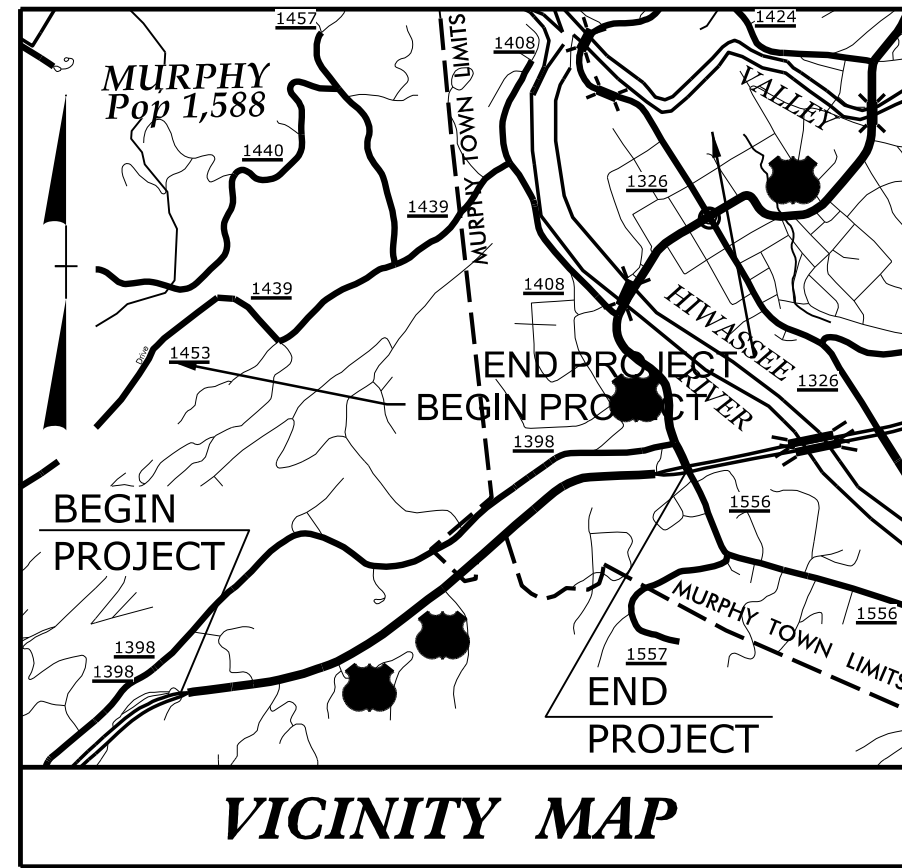
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**TIP PROJECT: R-5735**

**Michael Baker Engineering, Inc.**  
**Michael Baker** 8000 Regency Pkwy  
 Suite 600  
 Cary, NC 27518  
 NC License: F-1084  
**INTERNATIONAL**

STATE	STATE PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.	R-5735	EC-1	
STATE PROJ. NO.	F.A. PROJ. NO.	DESCRIPTION	
50193.1.1		PE	



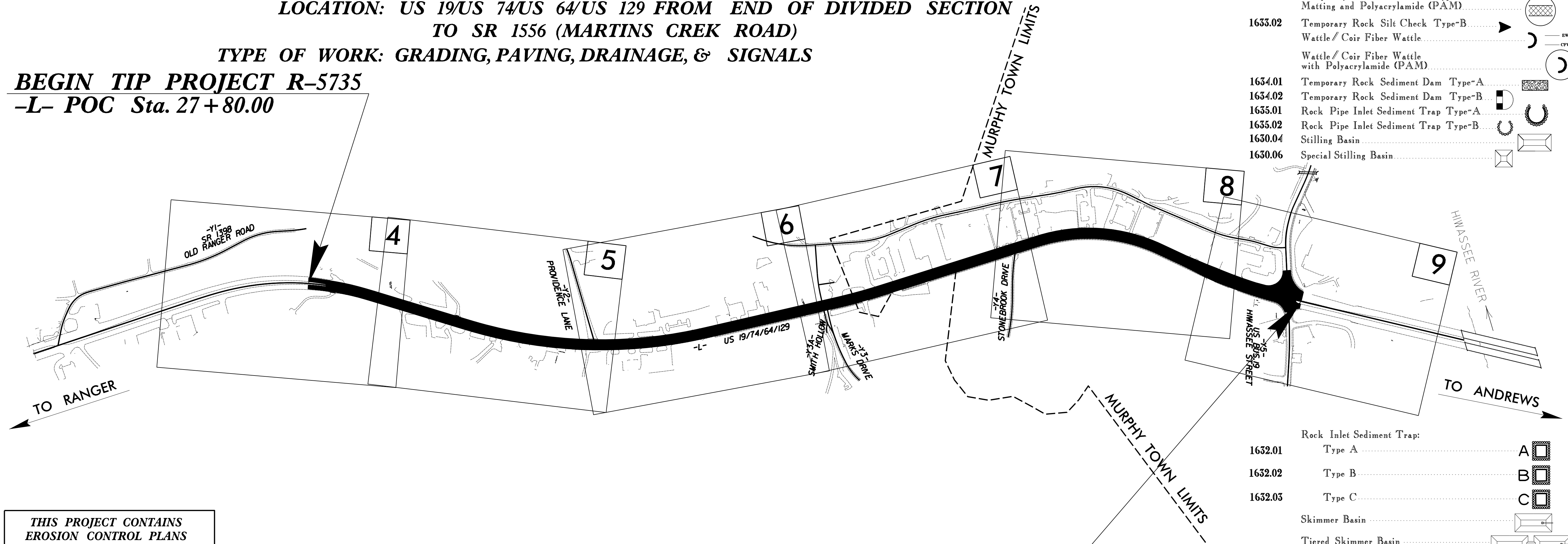
STATE OF NORTH CAROLINA  
 DIVISION OF HIGHWAYS  
 PLAN FOR PROPOSED  
 HIGHWAY EROSION CONTROL

**CHEROKEE COUNTY**

**LOCATION: US 19/US 74/US 64/US 129 FROM END OF DIVIDED SECTION TO SR 1556 (MARTINS CREK ROAD)**

**TYPE OF WORK: GRADING, PAVING, DRAINAGE, & SIGNALS**

**BEGIN TIP PROJECT R-5735**  
**-L- POC Sta. 27+80.00**



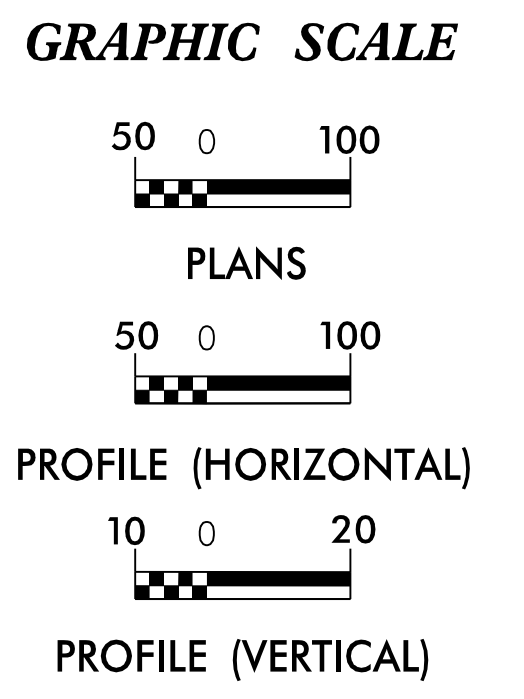
**THIS PROJECT CONTAINS EROSION CONTROL PLANS FOR CLEARING AND GRUBBING PHASE OF CONSTRUCTION.**

**END TIP PROJECT R-5735**  
**-L- POT Sta. 92+00.00**

**EROSION AND SEDIMENT CONTROL MEASURES**

Std. #	Description	Symbol
1630.03	Temporary Silt Ditch	TD
1630.05	Temporary Diversion	TD
1605.01	Temporary Silt Fence	III III III
1606.01	Special Sediment Control Fence	ZZZZZZ
1622.01	Temporary Berms and Slope Drains	TD
1630.02	Silt Basin Type B	SB
1633.01	Temporary Rock Silt Check Type-A	RC
	Temporary Rock Silt Check Type-A with Matting and Polyacrylamide (PAM)	RC
1633.02	Temporary Rock Silt Check Type-B	RC
	Wattle/Coir Fiber Wattle	W
	Wattle/Coir Fiber Wattle with Polyacrylamide (PAM)	W
1634.01	Temporary Rock Sediment Dam Type-A	RD
1634.02	Temporary Rock Sediment Dam Type-B	RD
1635.01	Rock Pipe Inlet Sediment Trap Type-A	RPI
1635.02	Rock Pipe Inlet Sediment Trap Type-B	RPI
1630.04	Stilling Basin	SB
1630.06	Special Stilling Basin	SB

Rock Inlet Sediment Trap:		
1632.01	Type A	A
1632.02	Type B	B
1632.03	Type C	C
	Skimmer Basin	SK
	Tiered Skimmer Basin	SK
	Infiltration Basin	IB



THESE EROSION AND SEDIMENT CONTROL PLANS COMPLY WITH THE REGULATIONS SET FORTH BY THE NCG-010000 GENERAL CONSTRUCTION PERMIT EFFECTIVE AUGUST 1, 2016 AND ISSUED BY THE NORTH CAROLINA DEPARTMENT OF ENVIRONMENT AND NATURAL RESOURCES DIVISION OF WATER RESOURCES.

Prepared in the Office of:  
**MI ENGINEERING, LLC**  
 1011 SCHAUB DR, SUITE 100  
 RALEIGH, NC 27606

Designed by:  
**KAREN HEFNER, PE** 3428  
 NAME LEVEL III CERTIFICATION NO.

Reviewed in the Office of:  
**ROADSIDE ENVIRONMENTAL UNIT**  
 1 South Wilmington St.  
 Raleigh, NC 27611

2018 STANDARD SPECIFICATIONS

Reviewed by:  
**WES CHANDLER, PE**

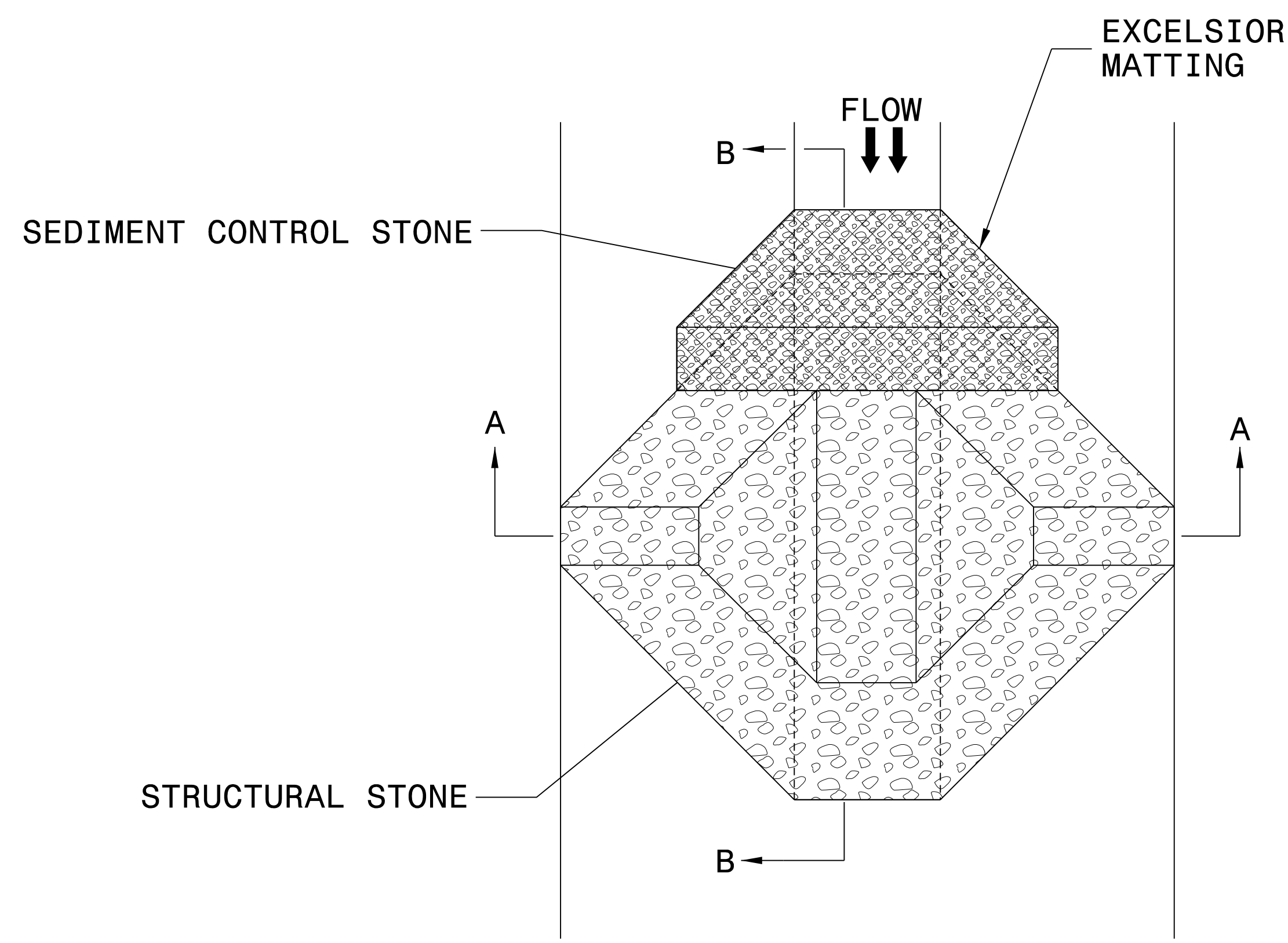
Roadway Standard Drawings

The following roadway english standards as appear in "Roadway Standard Drawings"- Roadway Design Unit - N. C. Department of Transportation - Raleigh, N. C., dated January 2018 and the latest revision thereto are applicable to this project and by reference hereby are considered a part of these plans.

1604.01 Railroad Erosion Control Detail	1632.01 Rock Inlet Sediment Trap Type A
1605.01 Temporary Silt Fence	1632.02 Rock Inlet Sediment Trap Type B
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	1633.02 Temporary Rock Silt Check Type B
1630.01 Riser Basin	1634.01 Temporary Rock Sediment Dam Type A
1630.02 Silt Basin Type B	1634.02 Temporary Rock Sediment Dam Type B
1630.03 Temporary Silt Ditch	1635.01 Rock Pipe Inlet Sediment Trap Type A
1630.04 Stilling Basin	1635.02 Rock Pipe Inlet Sediment Trap Type B
1630.05 Temporary Diversion	1640.01 Coir Fiber Baffle
1630.06 Special Stilling Basin	1645.01 Temporary Stream Crossing
1631.01 Matting Installation	

PROJECT REFERENCE NO. R-5735	SHEET NO. EC-02
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

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



PLAN

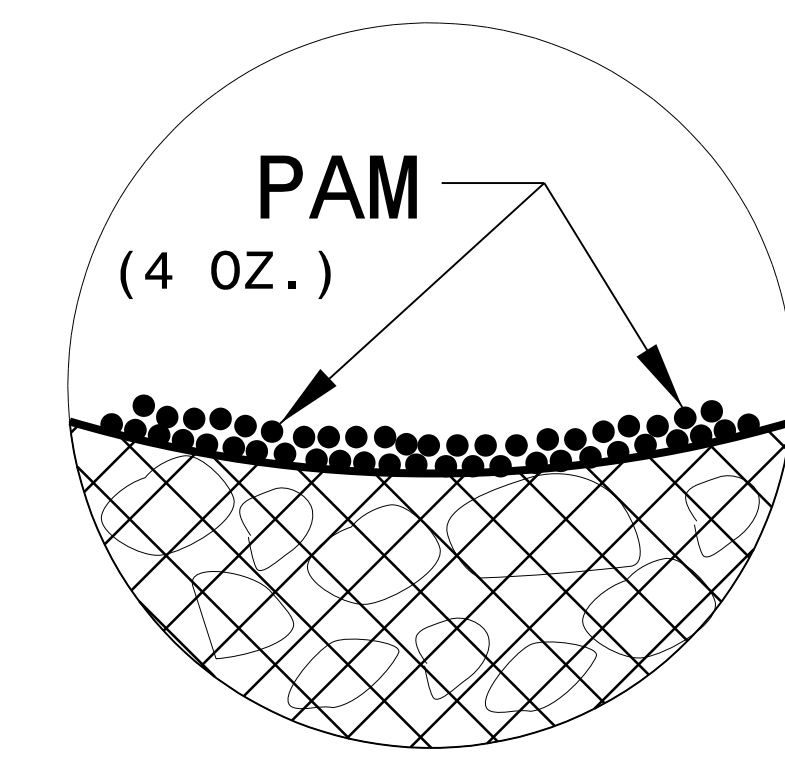
**NOTES:**

INSTALL TEMPORARY ROCK SILT CHECK TYPE A IN ACCORDANCE WITH ROADWAY STANDARD DRAWING NO. 1633.01.

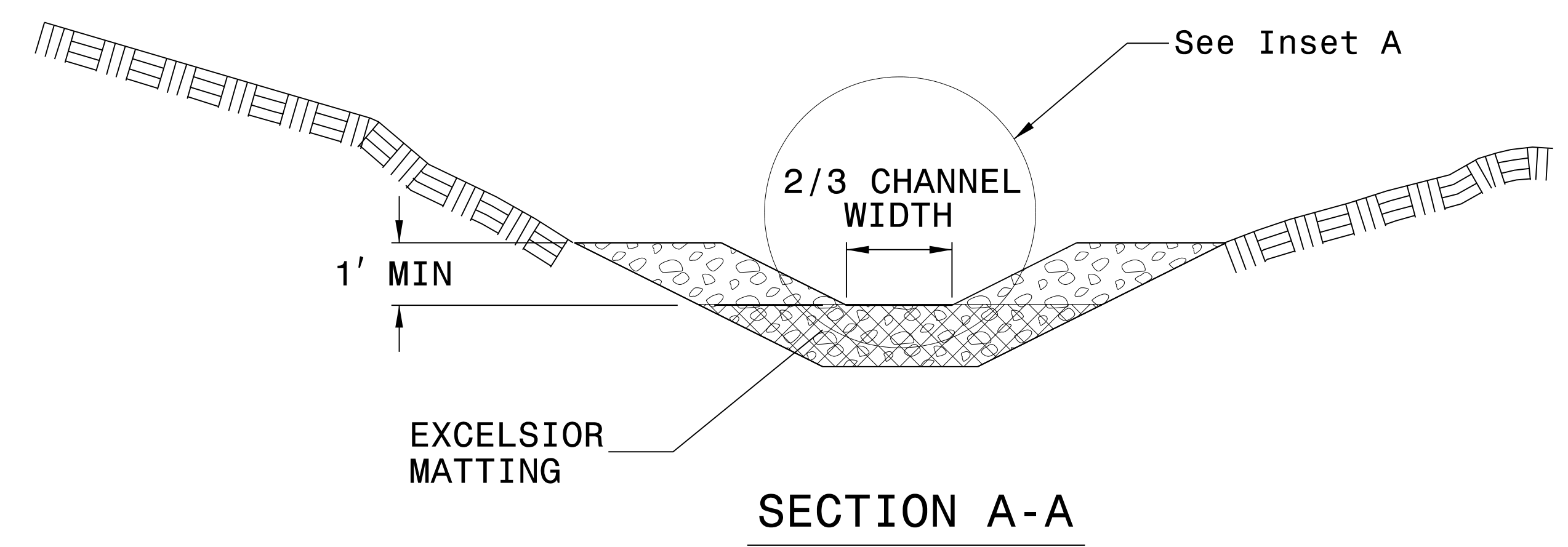
USE EXCELSIOR FOR MATTING MATERIAL AND ANCHOR MATTING SECTION AT TOP AND BOTTOM WITH CLASS B STONE.

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.

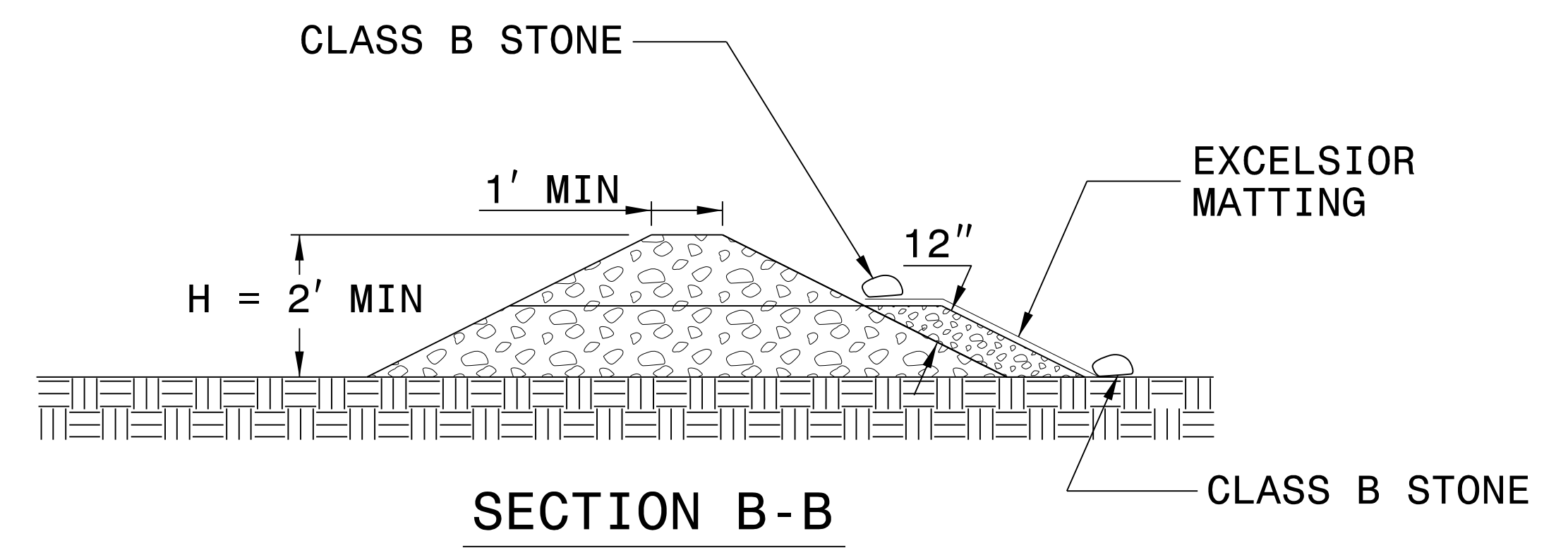
INITIALLY APPLY 4 OUNCES OF POLYACRYLAMIDE (PAM) TO TOP OF MATTING SECTION AND AFTER EVERY RAINFALL EVENT THAT EQUALS OR EXCEEDS 0.50 INCHES.



INSET A



SECTION A-A



SECTION B-B

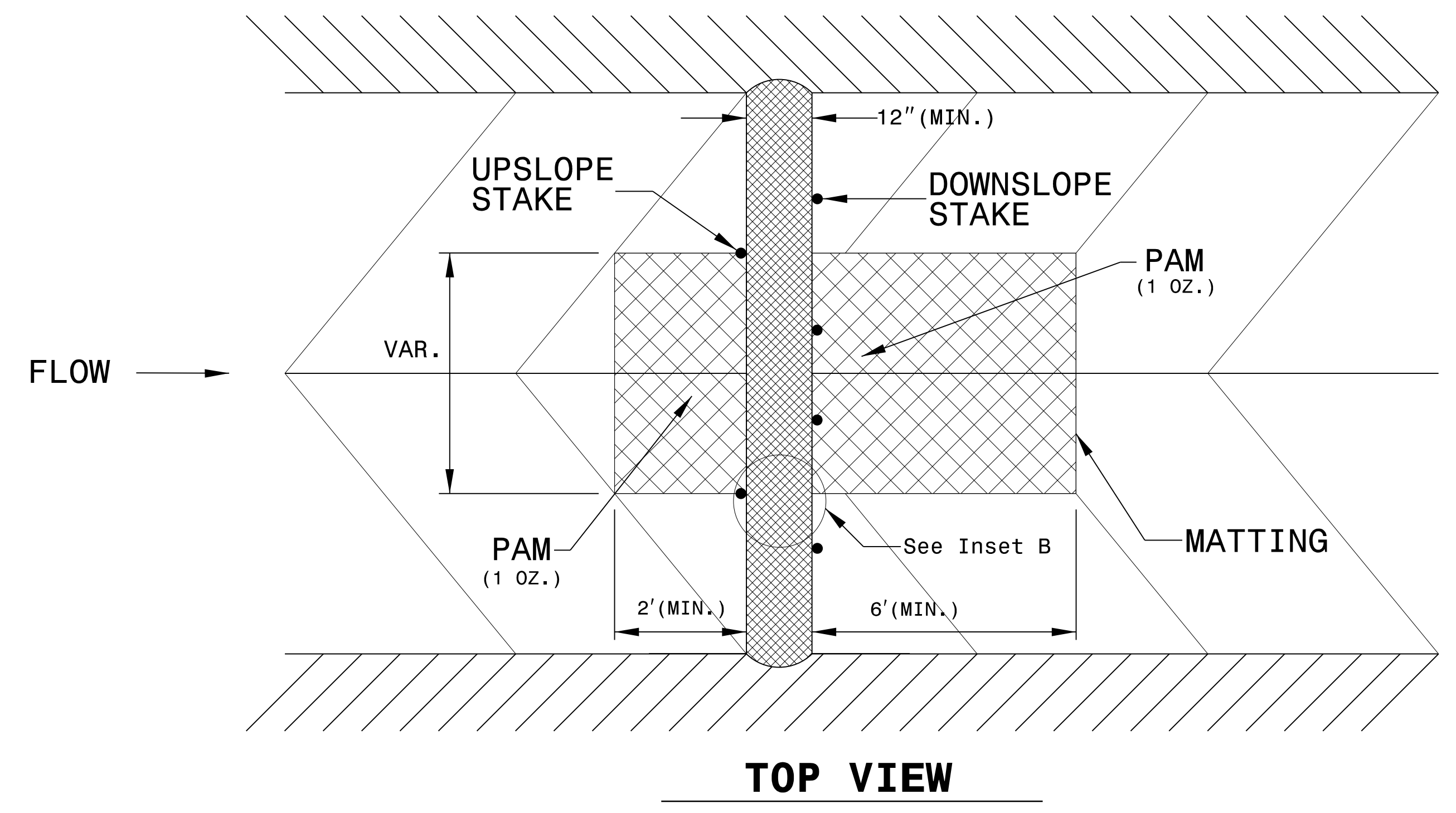
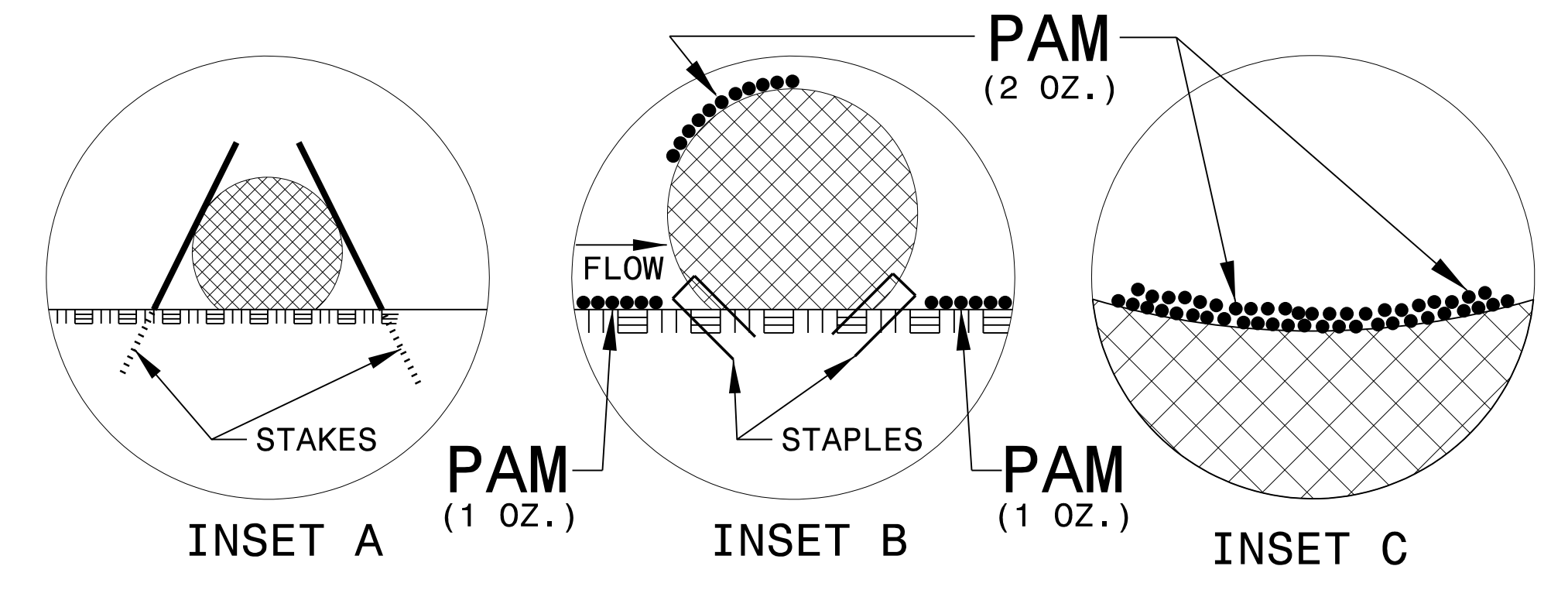
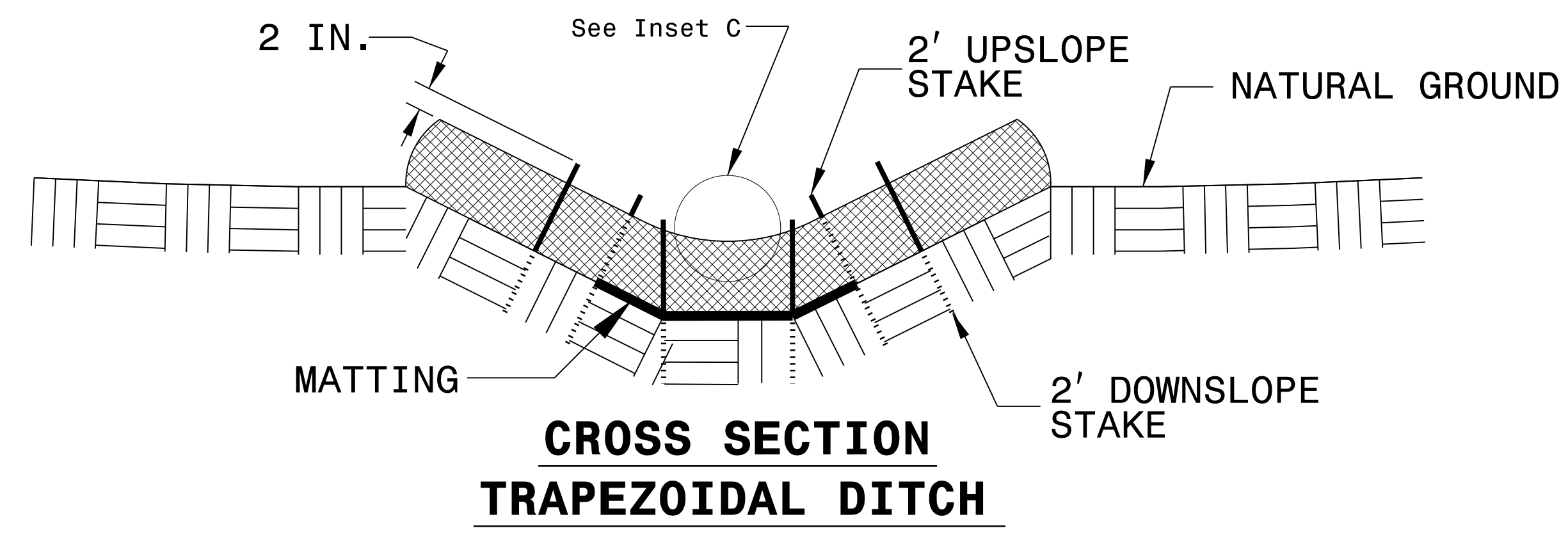
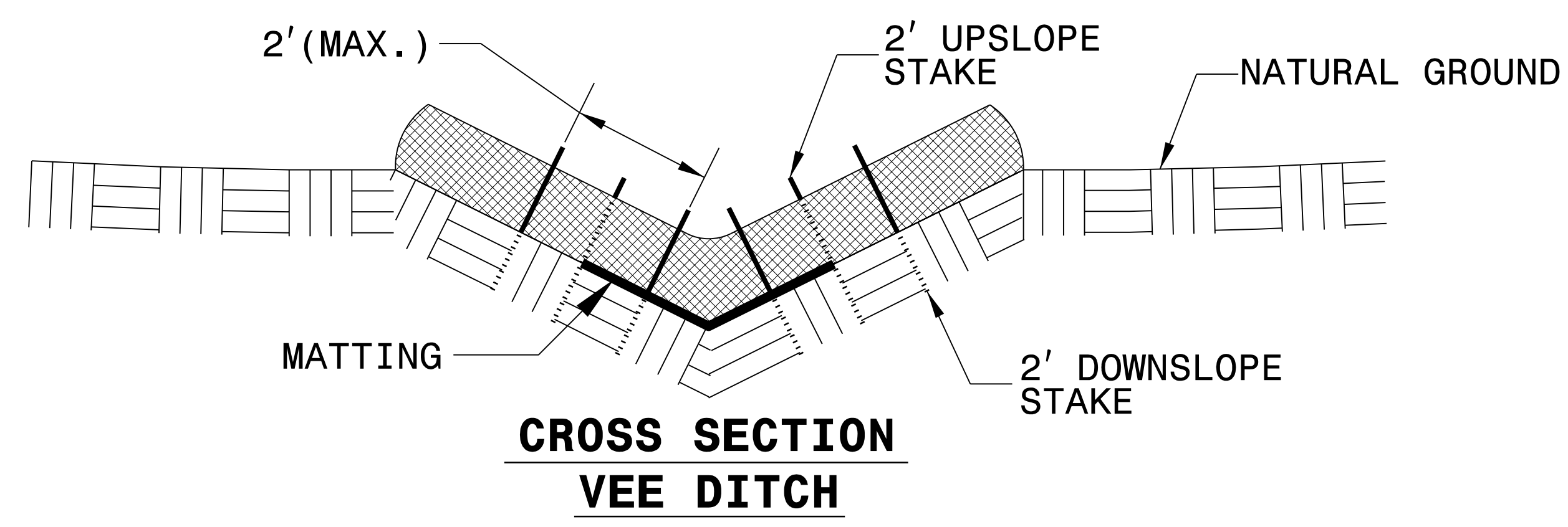
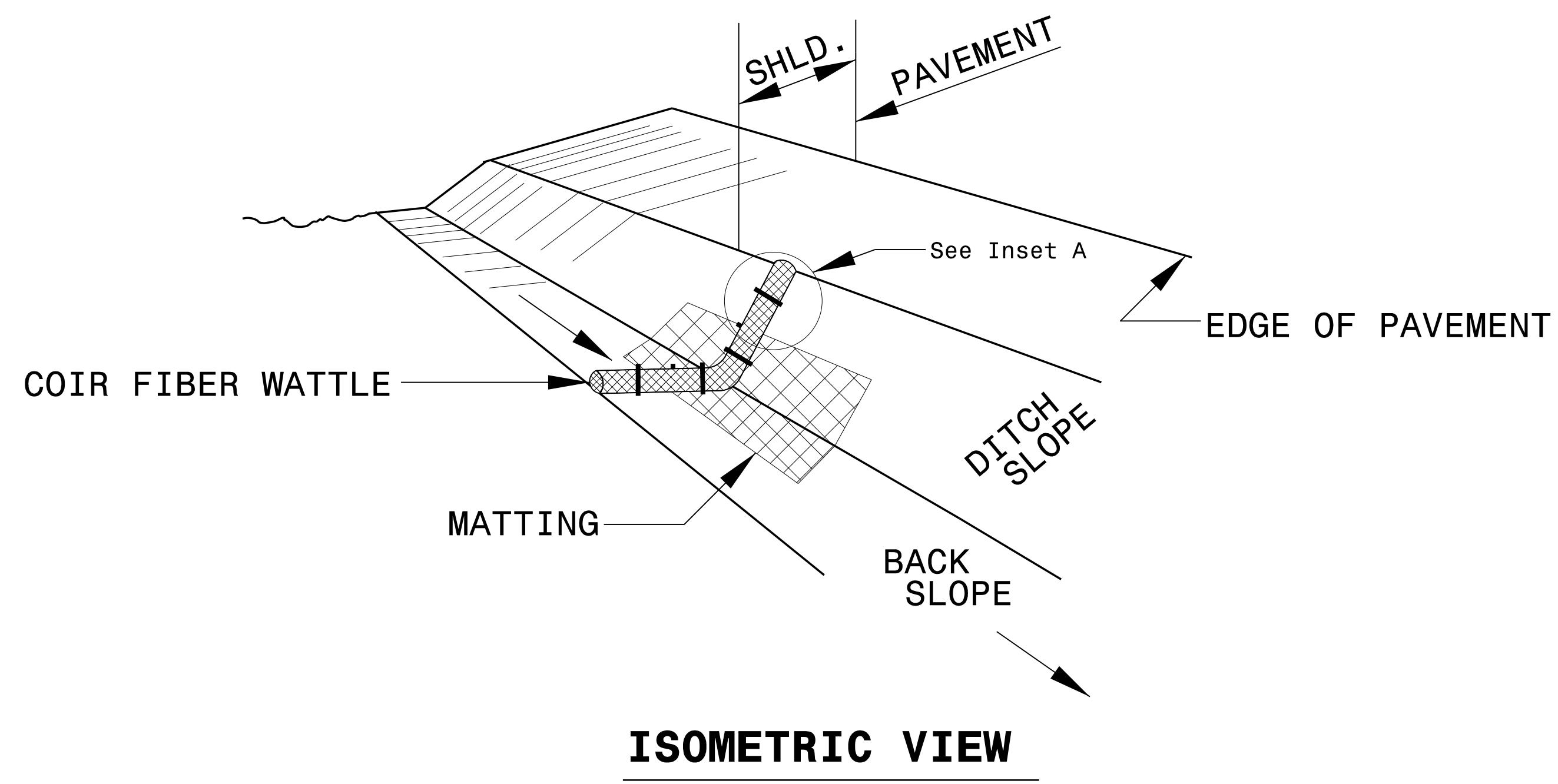
NOT TO SCALE

PROJECT REFERENCE NO. R-5735	SHEET NO. EC-2A
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

# COIR FIBER WATTLE WITH POLYACRYLAMIDE (PAM) DETAIL

**NOTES:**

- USE MINIMUM 12 IN. DIAMETER COIR FIBER (COCONUT FIBER) 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.







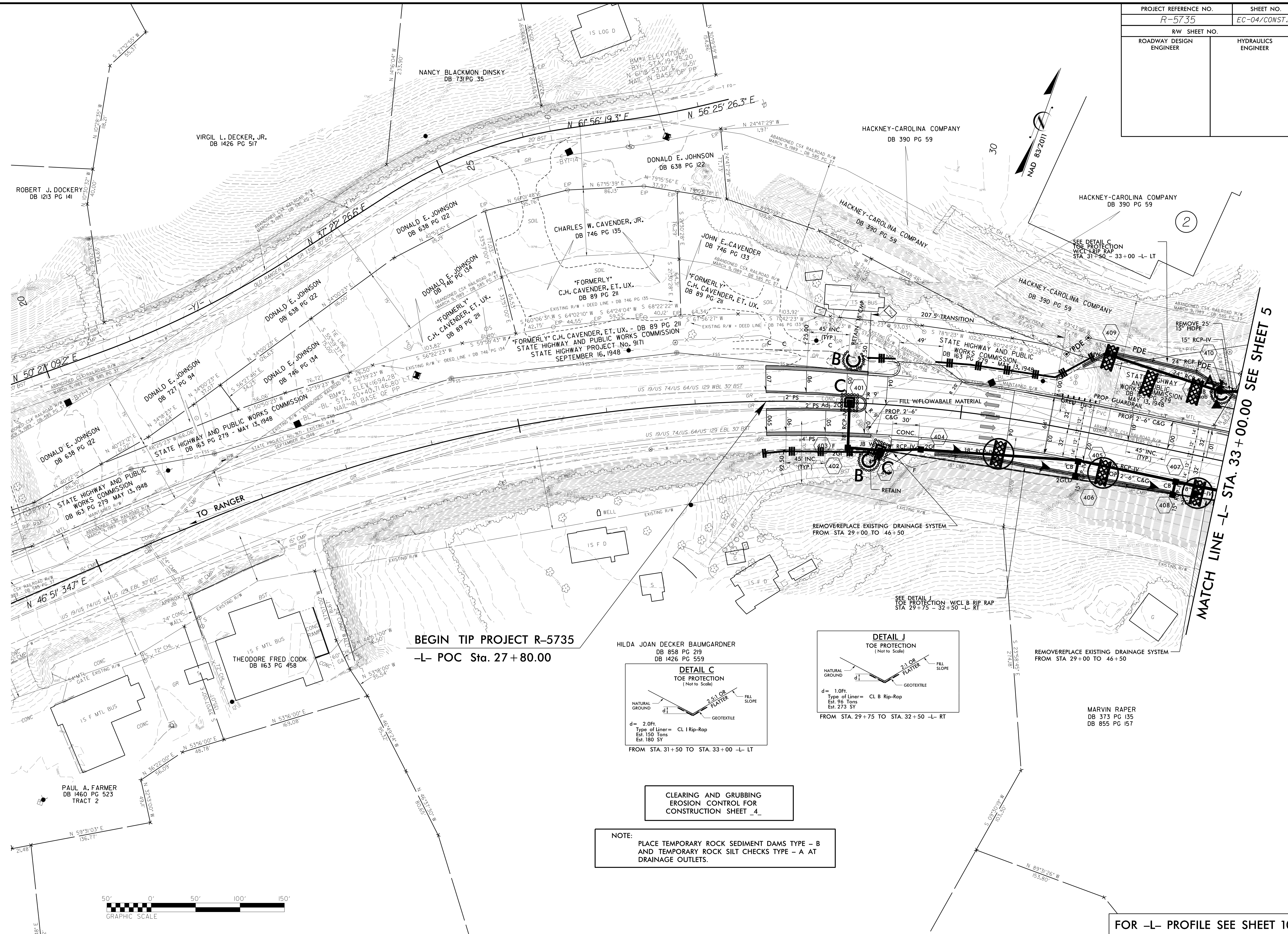
DIVISION OF HIGHWAYS  
STATE OF NORTH CAROLINA

PROJECT REFERENCE NO. <i>R-5735</i>	SHEET NO. <i>EC-3A</i>
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

# ***SOIL STABILIZATION TIMEFRAMES***

<i>SITE DESCRIPTION</i>	<i>STABILIZATION TIME</i>	<i>TIMEFRAME EXCEPTIONS</i>
PERIMETER DIKES, SWALES, DITCHES AND SLOPES	7 DAYS	NONE
HIGH QUALITY WATER (HQW) ZONES	7 DAYS	NONE
SLOPES STEEPER THAN 3:1	7 DAYS	IF SLOPES ARE 10' OR LESS IN LENGTH AND ARE NOT STEEPER THAN 2:1, 14 DAYS ARE ALLOWED.
SLOPES 3:1 OR FLATTER	14 DAYS	7 DAYS FOR SLOPES GREATER THAN 50' IN LENGTH.
ALL OTHER AREAS WITH SLOPES FLATTER THAN 4:1	14 DAYS	NONE, EXCEPT FOR PERIMETERS AND HQW ZONES.

PROJECT REFERENCE NO. <b>R-5735</b>	SHEET NO. <b>EC-04/CONST.04</b>
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

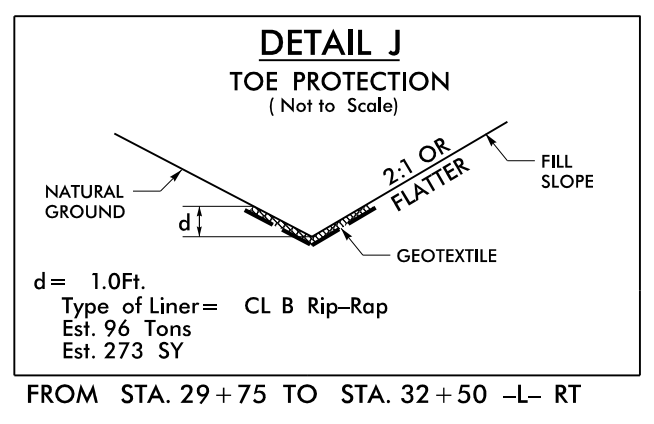
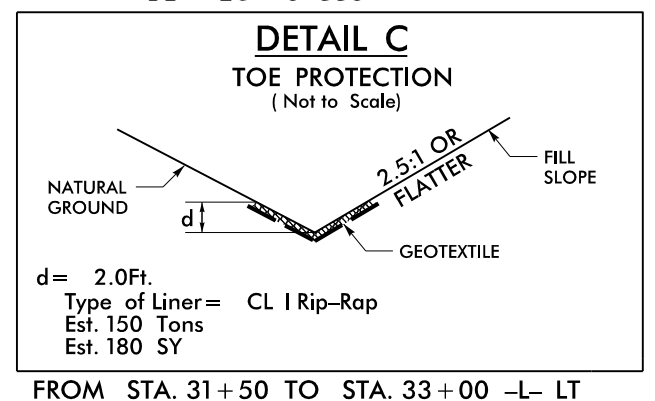


REVISIONS

MATCH LINE -L- STA. 33 + 00.00 SEE SHEET 5

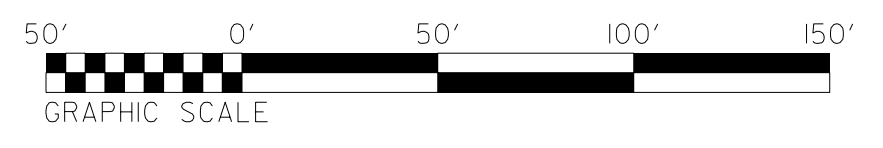
**BEGIN TIP PROJECT R-5735**  
-L- POC Sta. 27 + 80.00

HILDA JOAN DECKER BAUMGARDNER  
DB 858 PG 219  
DB 1426 PG 559



**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.



FOR -L- PROFILE SEE SHEET 10

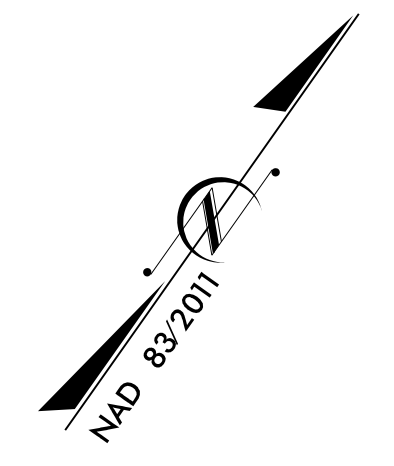
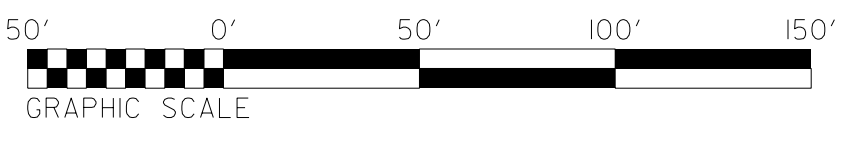
8/17/99







PROJECT REFERENCE NO. R-5735	SHEET NO. EC-06/CONST.06
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER



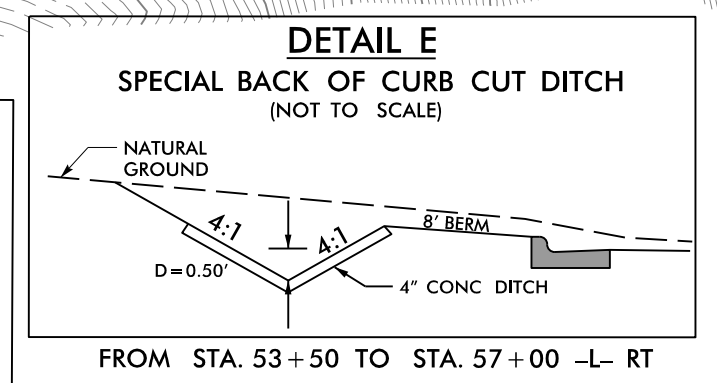
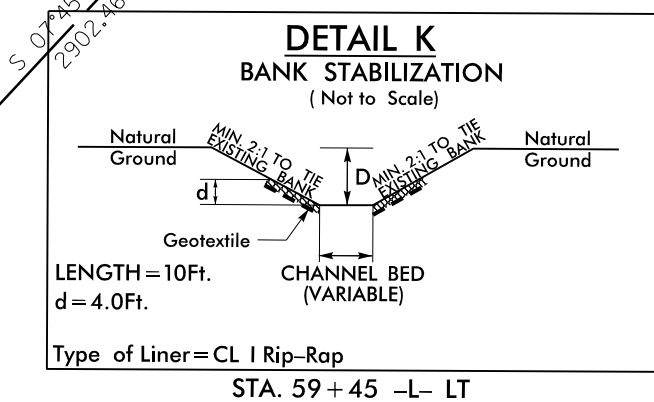
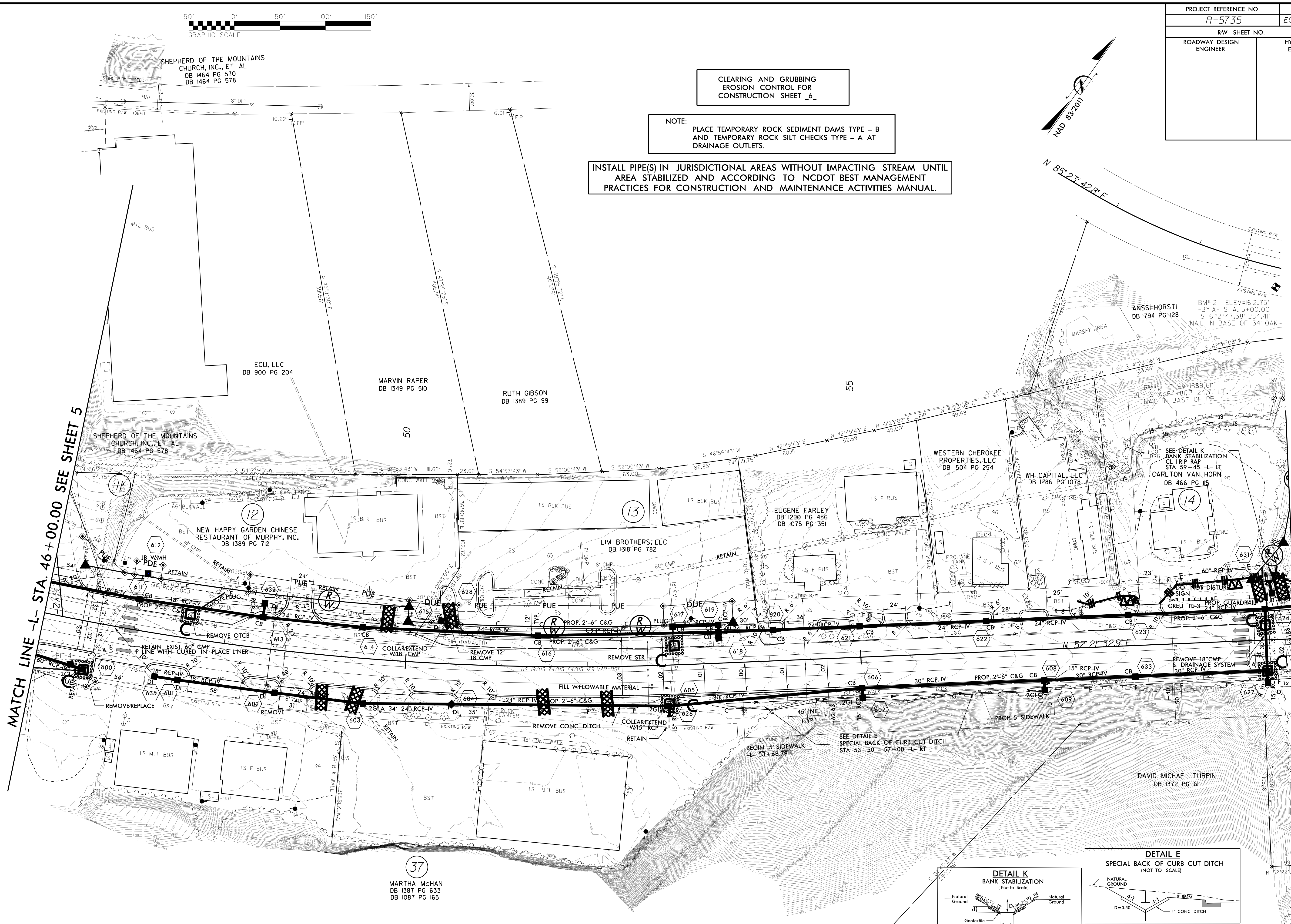
**CLEARING AND GRUBBING  
EROSION CONTROL FOR  
CONSTRUCTION SHEET 6**

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

INSTALL PIPE(S) IN JURISDICTIONAL AREAS WITHOUT IMPACTING STREAM UNTIL  
AREA STABILIZED AND ACCORDING TO NCDOT BEST MANAGEMENT  
PRACTICES FOR CONSTRUCTION AND MAINTENANCE ACTIVITIES MANUAL.

MATCH LINE -L- STA. 46+00.00 SEE SHEET 5

MATCH LINE -L- STA. 59+75.00 SEE SHEET 7



FOR -L- PROFILE SEE SHEET 11

REVISIONS

8/17/99





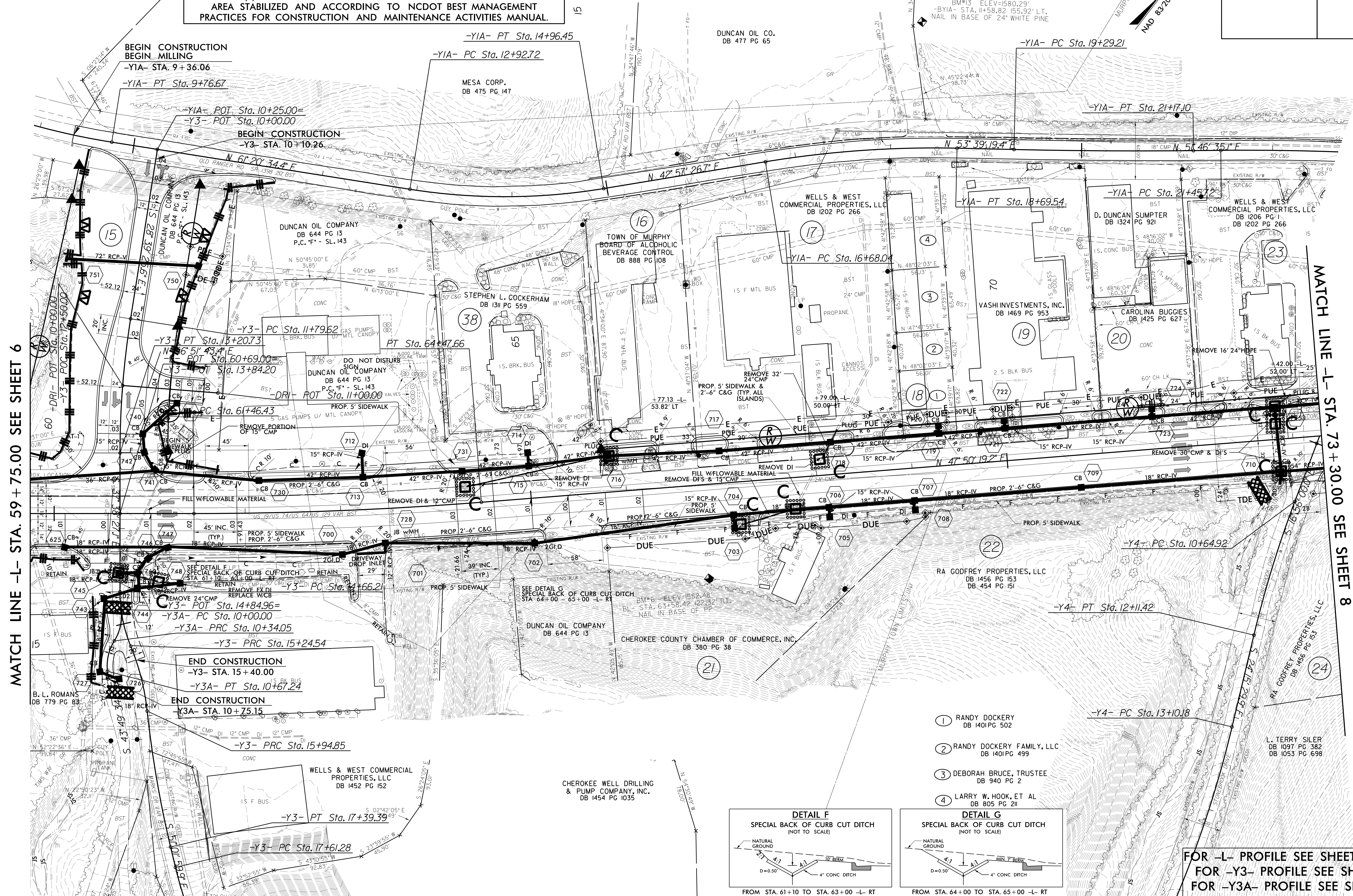
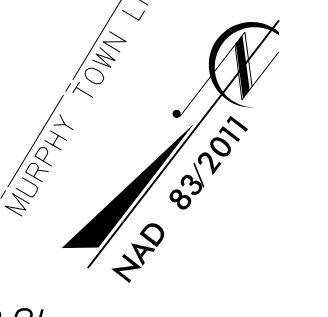
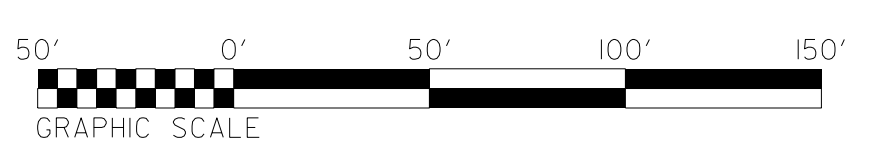


PROJECT REFERENCE NO.	SHEET NO.
R-5735	EC-07/CONST.07
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

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

INSTALL PIPE(S) IN JURISDICTIONAL AREAS WITHOUT IMPACTING STREAM UNTIL AREA STABILIZED AND ACCORDING TO NCDOT BEST MANAGEMENT PRACTICES FOR CONSTRUCTION AND MAINTENANCE ACTIVITIES MANUAL.

CLEARING AND GRUBBING EROSION CONTROL FOR CONSTRUCTION SHEET 7

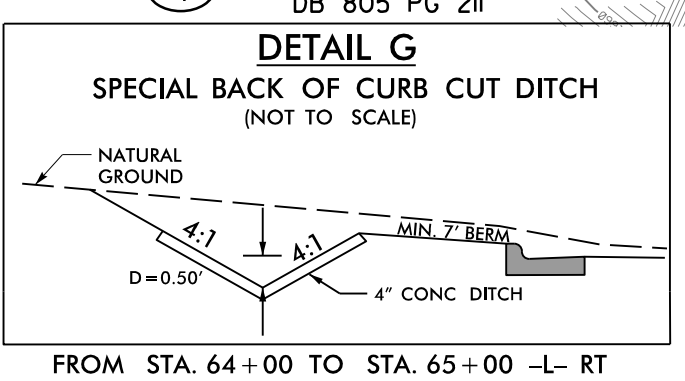
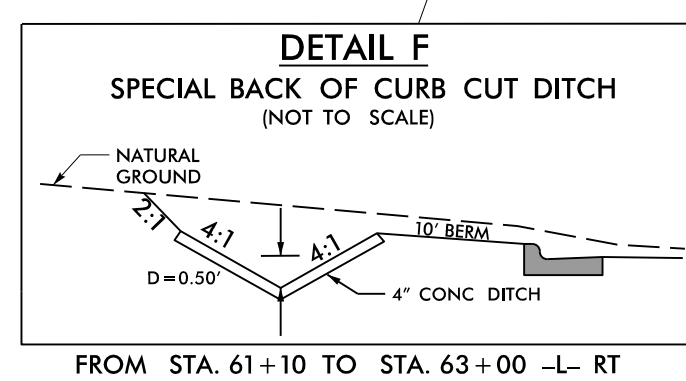


MATCH LINE -L- STA. 59 + 75.00 SEE SHEET 6

MATCH LINE -L- STA. 73 + 30.00 SEE SHEET 8

REVISIONS

- ① RANDY DOCKERY  
DB 1401 PG 502
- ② RANDY DOCKERY FAMILY, LLC  
DB 1401 PG 499
- ③ DEBORAH BRUCE, TRUSTEE  
DB 940 PG 2
- ④ LARRY W. HOOK, ET AL  
DB 805 PG 211



FOR -L- PROFILE SEE SHEET 11 & 12  
FOR -Y3- PROFILE SEE SHEET 13  
FOR -Y3A- PROFILE SEE SHEET 13

8/17/99



# PIPE INSTALLATION SEQUENCE STA. 11+20 -Y3- (NTS)

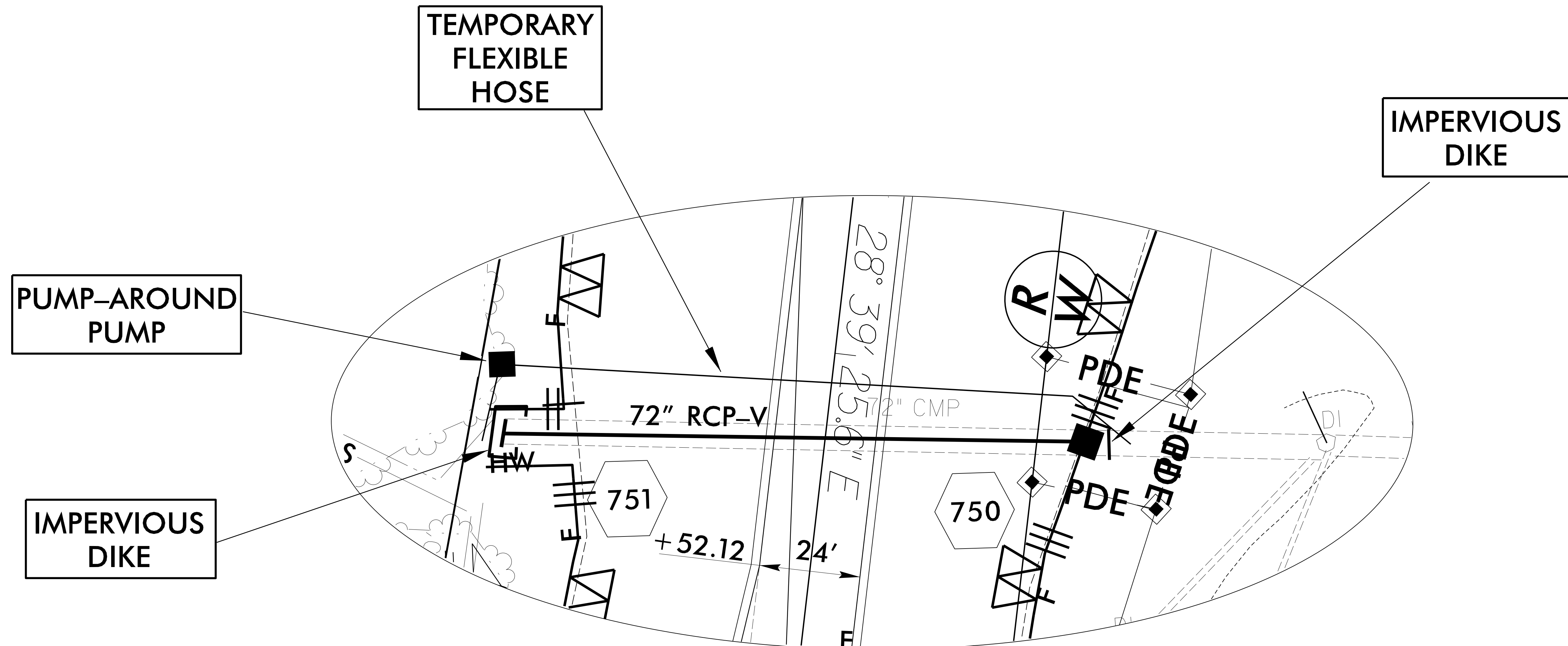
PROJECT REFERENCE NO. R-5735	SHEET NO. EC-07A/CONST.07
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

**NOTES:**

1. PIPE INSTALLATION SHALL BE PERFORMED IN ONLY DRY OR ISOLATED SECTIONS OF CHANNEL.
2. IMPERVIOUS DIKES ARE TO BE USED TO ISOLATE WORK FROM STREAM FLOW AS NECESSARY.
3. ALL GRADED AREAS ARE TO BE STABILIZED WITHIN 24 HOURS.
4. MAINTENANCE OF STREAM FLOW OPERATIONS SHALL BE INCIDENTAL TO THE WORK. THIS INCLUDES POLYETHYLENE SHEETING, DIVERSION PIPES, PUMPS, AND HOSES.
5. PUMPS AND HOSES SHALL BE SUFFICIENT SIZE TO DEWATER THE WORK AREA.
6. THE CONTRACTOR SHALL NOT PUMP SEDIMENT-LADEN WATER DIRECTLY INTO THE STREAM. FOR DEWATERING OF PIPE SITE, THE CONTRACTOR SHALL FILTER SEDIMENT-LADEN WATER THROUGH A STILLING BASIN AND/OR SPECIAL STILLING BASIN.
7. UTILIZE A STABILIZED OUTLET INSTEAD OF A SPECIAL STILLING BASIN IF PUMPING CLEAN WATER.

**SEQUENCE OF CONSTRUCTION FOR TYPICAL WORK AREA:**

1. UTILIZE STILLING BASIN(S) AS DIRECTED TO DEWATER THE WORK SITE.
2. INSTALL UPSTREAM PUMP AND TEMPORARY FLEXIBLE HOSE. EXCAVATE & OPEN 72" CMP @ JB LOCATION.
3. PLACE UPSTREAM IMPERVIOUS DIKE AND BEGIN PUMPING OPERATIONS.
4. PLACE DOWNSTREAM IMPERVIOUS DIKE INSIDE EXISTING 72" CMP. PLACE DOWNSTREAM PUMPING APPARATUS & DEWATER ENTRAPPED AREA. AREA TO BE DEWATED SHALL BE EQUAL TO ONE DAY'S WORK.
5. REMOVE EXISTING 72" CMP AND INSTALL PROPOSED DRAINAGE SYSTEM IN ACCORDANCE WITH THE PLANS.
6. EXCAVATE ANY ACCUMULATED SILT AND DEWATER BEFORE REMOVAL OF IMPERVIOUS DIKES. REMOVE IMPERVIOUS DIKES, PUMPS, AND TEMPORARY FLEXIBLE HOSE.
7. REMOVE STILLING BASIN(S) AND BACKFILL. STABILIZE THE DISTURBED AREA WITH SEED & MULCH.

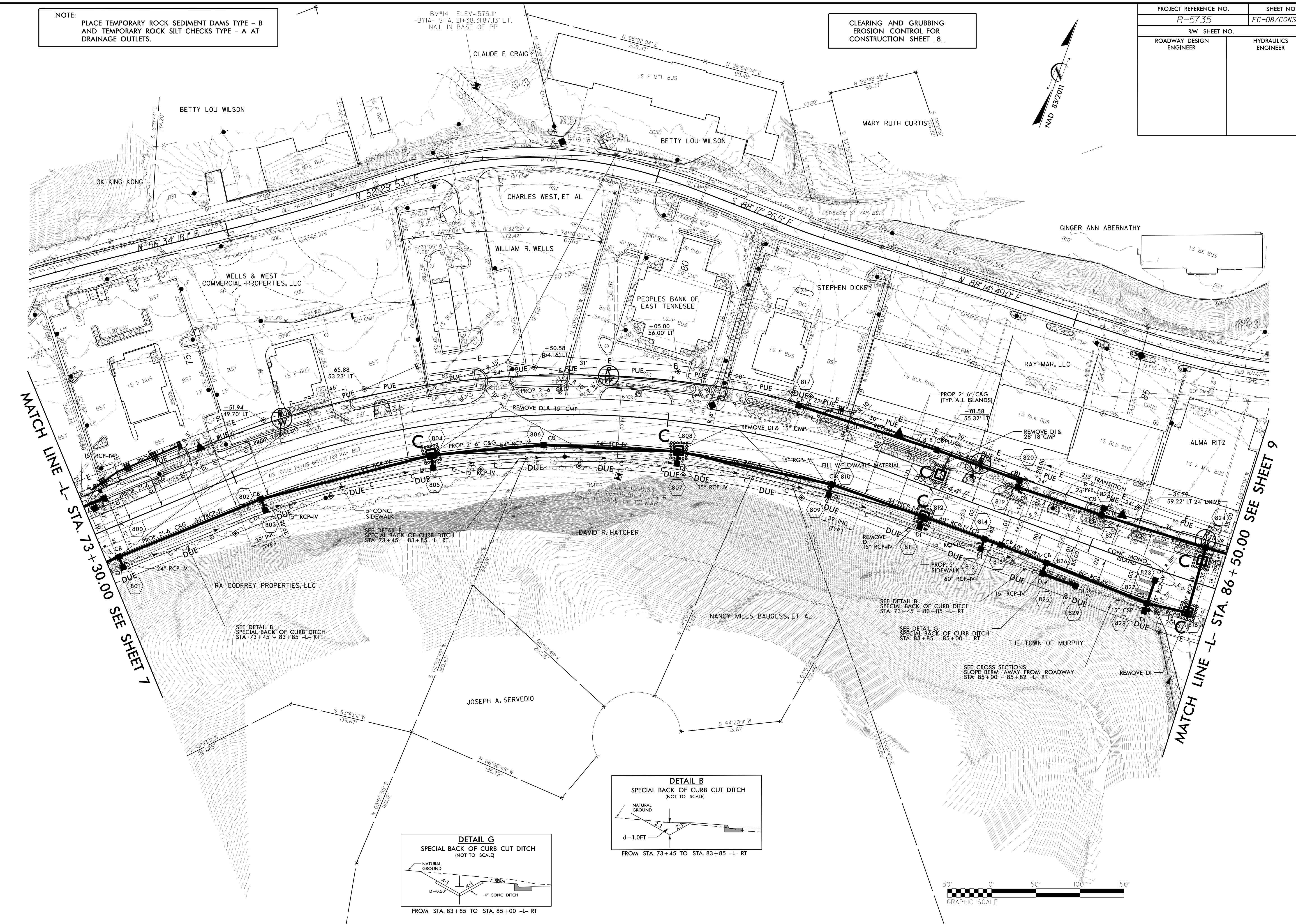
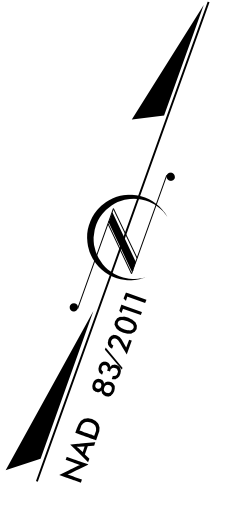




PROJECT REFERENCE NO.	SHEET NO.
R-5735	EC-08/CONST.08
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

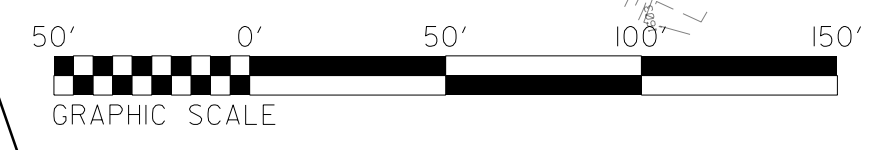
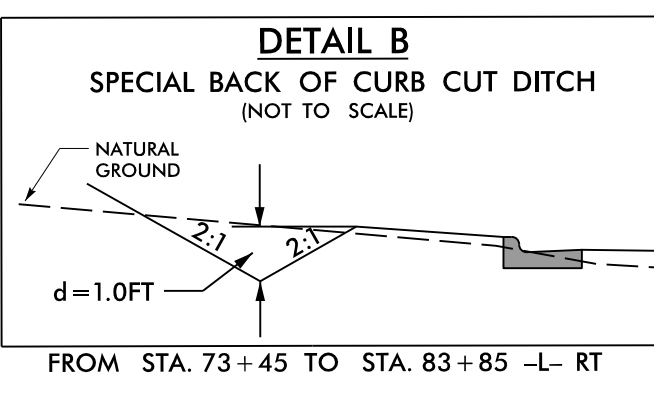
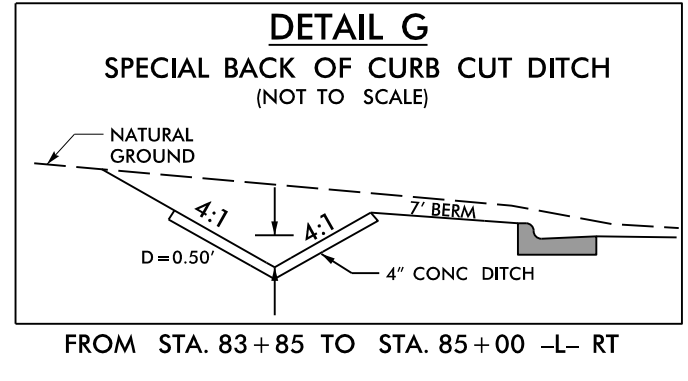
NOTE: PLACE TEMPORARY ROCK SEDIMENT DAMS TYPE - B AND TEMPORARY ROCK SILT CHECKS TYPE - A AT DRAINAGE OUTLETS.

CLEARING AND GRUBBING EROSION CONTROL FOR CONSTRUCTION SHEET 8



MATCH LINE -L- STA. 73 + 30.00 SEE SHEET 7

MATCH LINE -L- STA. 86 + 50.00 SEE SHEET 9



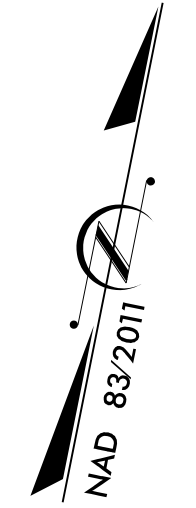
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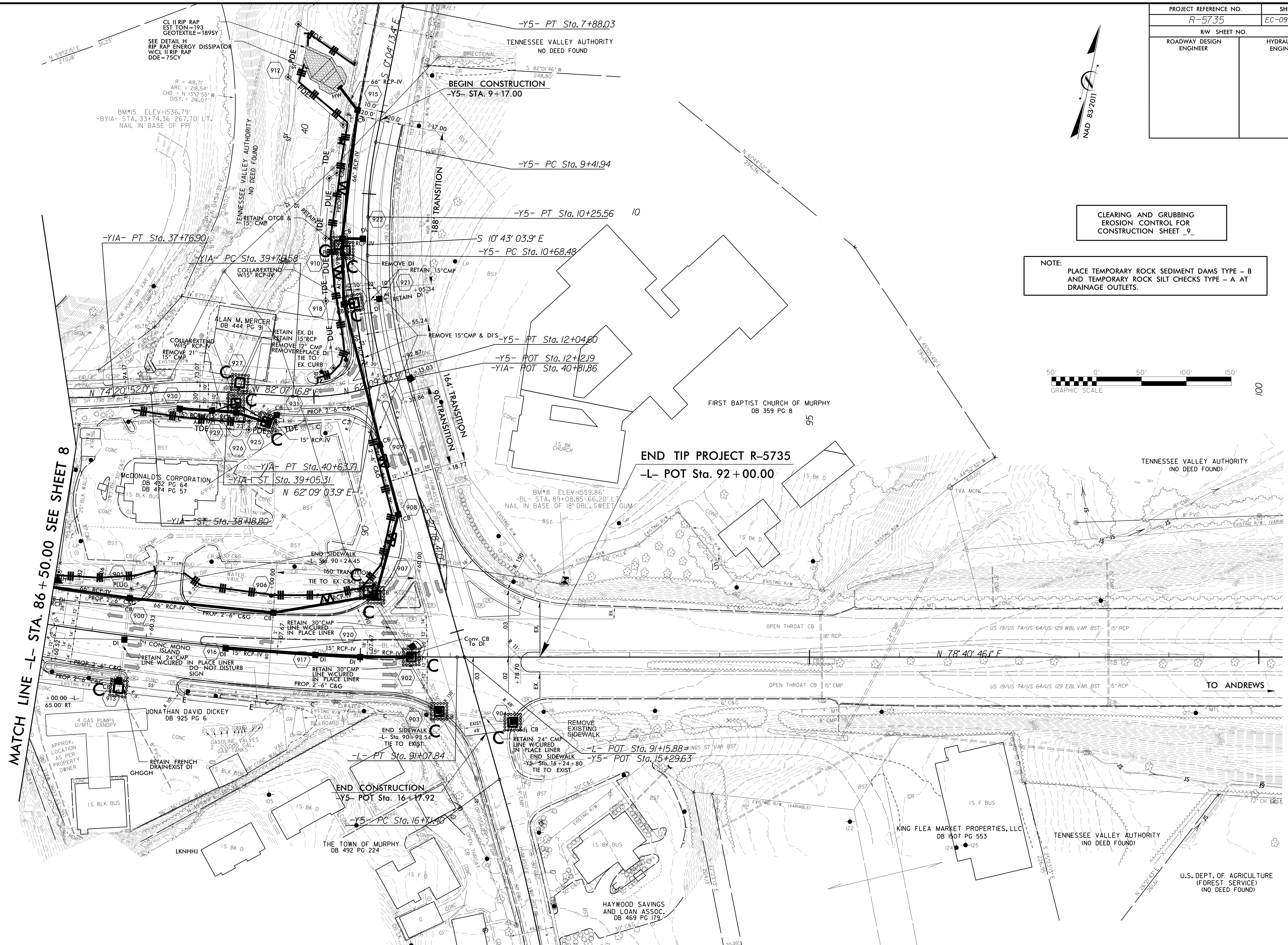
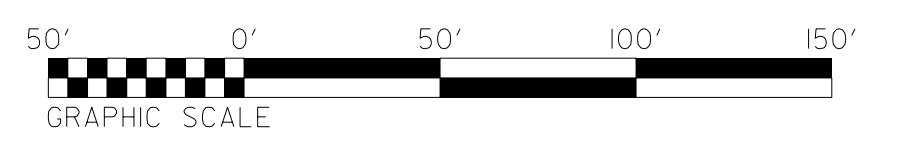
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PROJECT REFERENCE NO. <i>R-5735</i>	SHEET NO. <i>EC-09/CONST.09</i>
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER



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.



MATCH LINE -L- STA. 86+50.00 SEE SHEET 8

TO ANDREWS

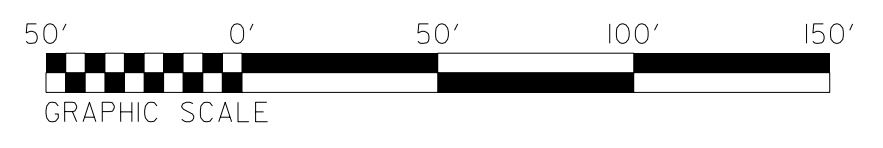
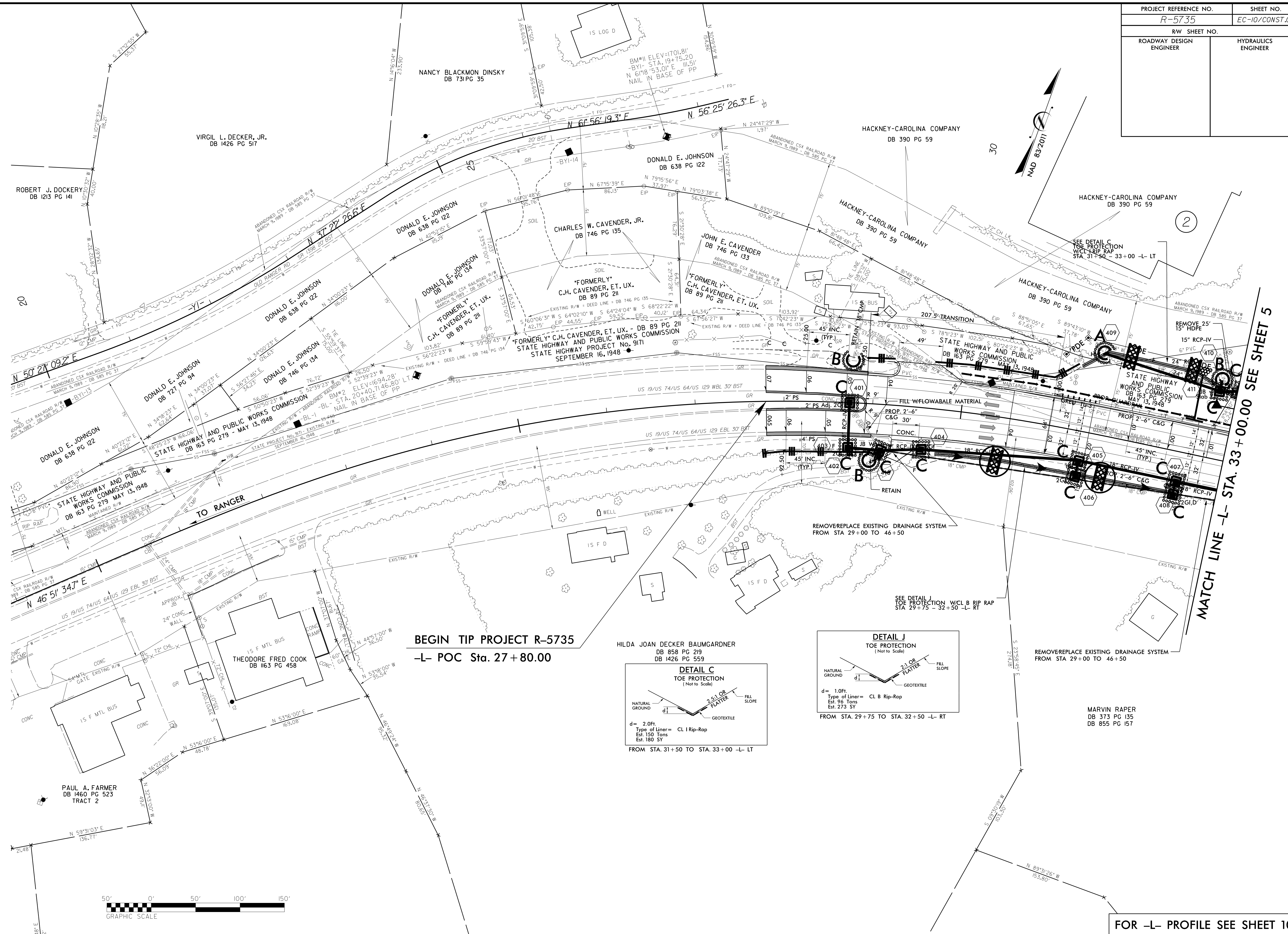
U.S. DEPT. OF AGRICULTURE  
(FOREST SERVICE)  
(NO DEED FOUND)



PROJECT REFERENCE NO. <b>R-5735</b>	SHEET NO. <b>EC-10/CONST.04</b>
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

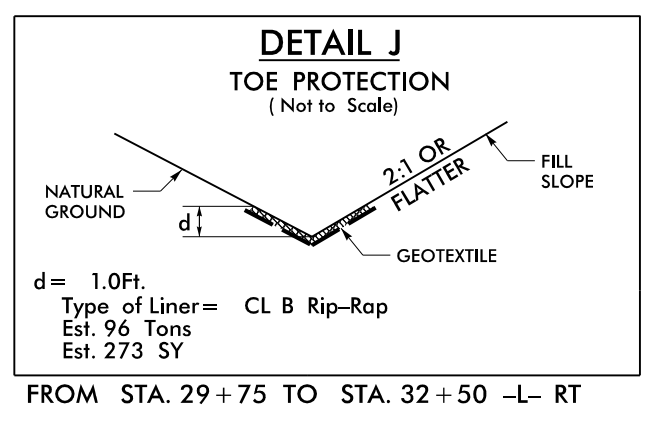
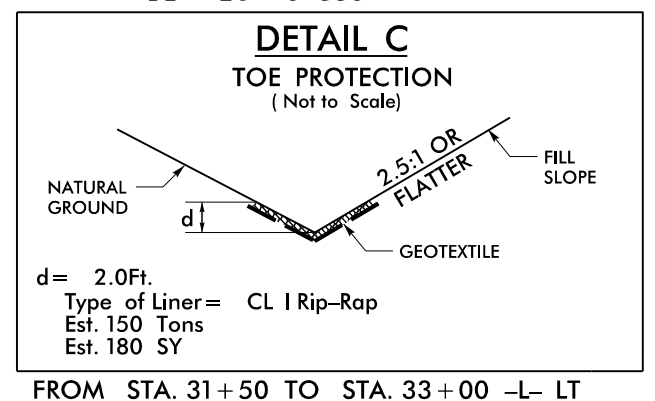
8/17/99

REVISIONS



**BEGIN TIP PROJECT R-5735**  
-L- POC Sta. 27 + 80.00

HILDA JOAN DECKER BAUMGARDNER  
DB 858 PG 219  
DB 1426 PG 559



REMOVEREPLACE EXISTING DRAINAGE SYSTEM  
FROM STA 29 + 00 TO 46 + 50

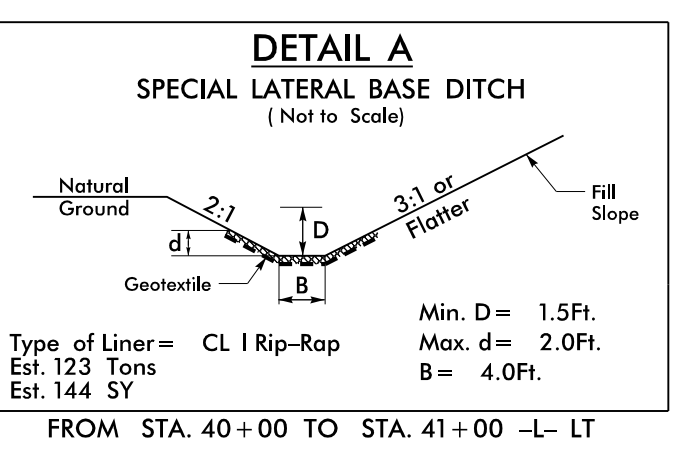
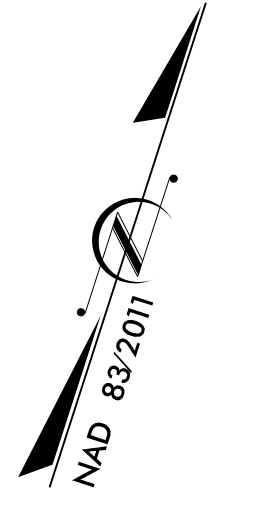
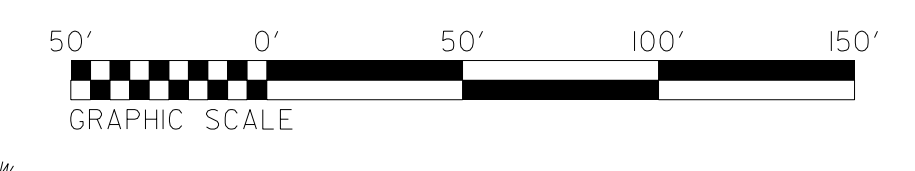
MARVIN RAPER  
DB 373 PG 135  
DB 855 PG 157

MATCH LINE -L- STA. 33 + 00.00 SEE SHEET 5

FOR -L- PROFILE SEE SHEET 10

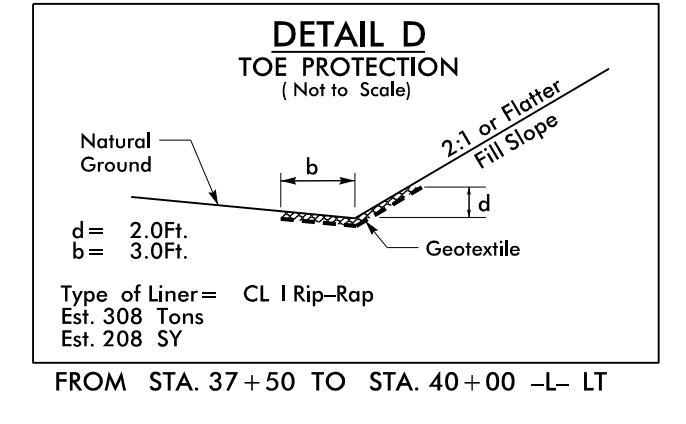


PROJECT REFERENCE NO. R-5735	SHEET NO. EC-II/CONST.05
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER



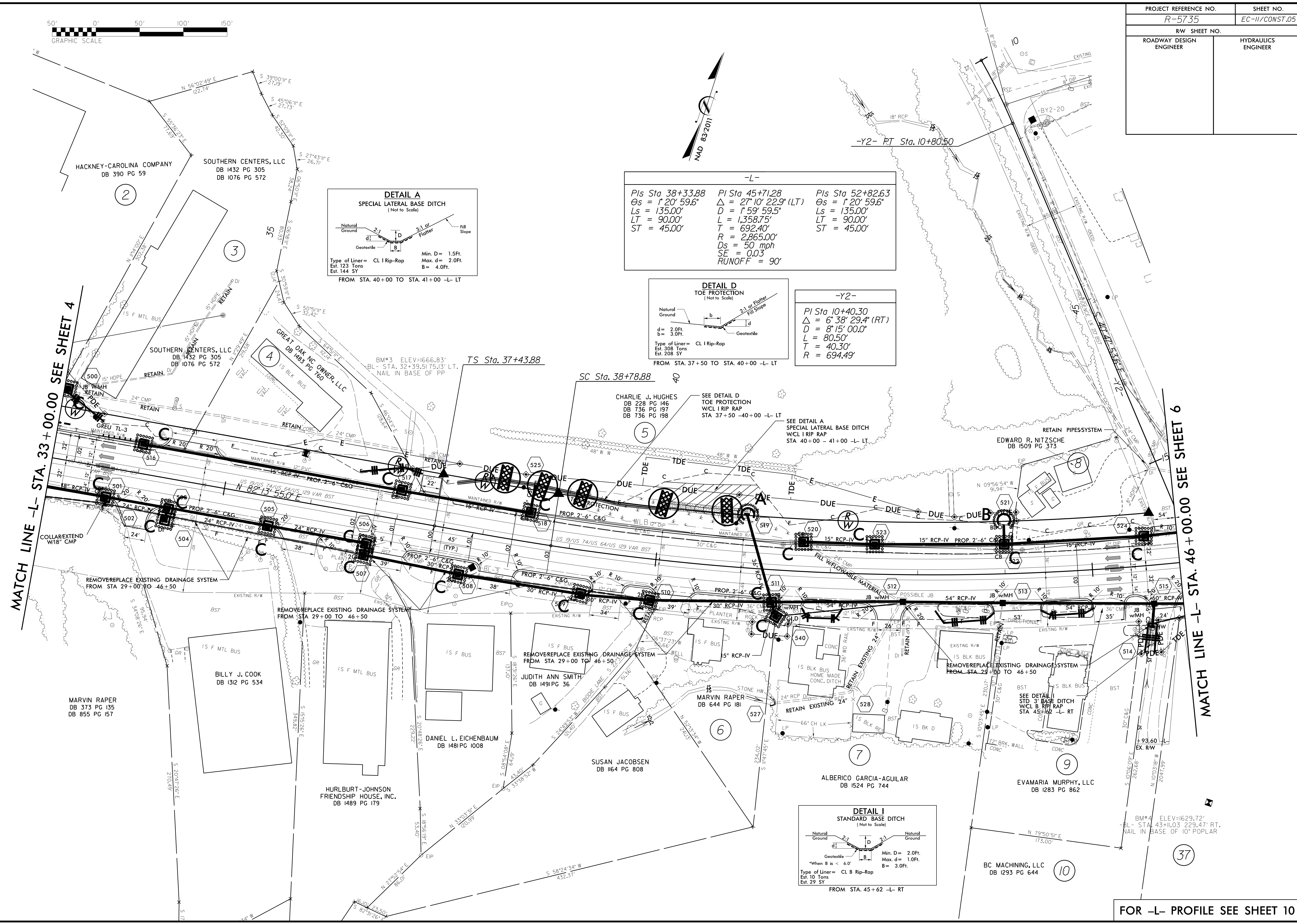
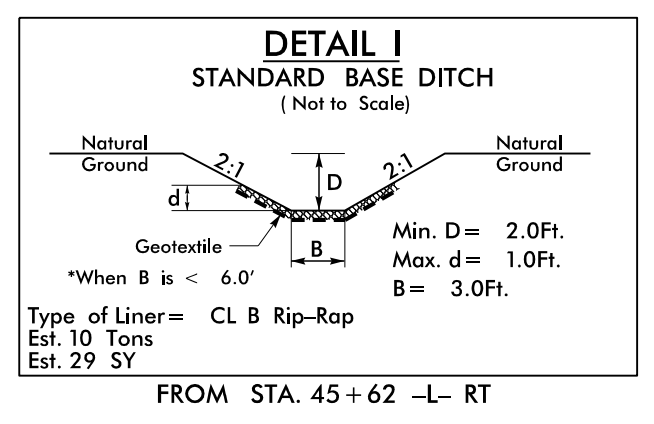
-L-

Pls Sta 38+33.88 θs = 1°20'59.6" Ls = 135.00' LT = 90.00' ST = 45.00'	Pls Sta 45+71.28 Δ = 27°10'22.9" (LT) D = 1°59'59.5" L = 1,358.75' T = 692.40' R = 2,865.00' Ds = 50 mph SE = 0.03 RUNOFF = 90'	Pls Sta 52+82.63 θs = 1°20'59.6" Ls = 135.00' LT = 90.00' ST = 45.00'
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-Y2-

Pls Sta 10+40.30 Δ = 6°38'29.4" (RT) D = 8°15'00.0" L = 80.50' T = 40.30' R = 694.49'
--



MATCH LINE -L- STA. 33+00.00 SEE SHEET 4

MATCH LINE -L- STA. 46+00.00 SEE SHEET 6

FOR -L- PROFILE SEE SHEET 10

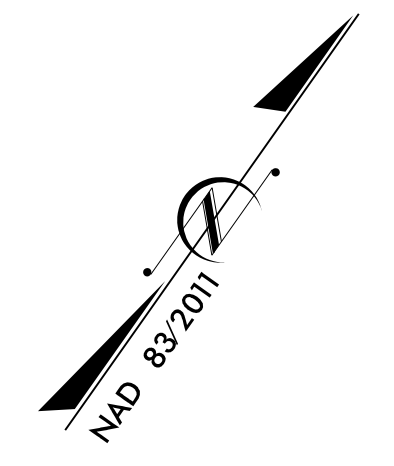
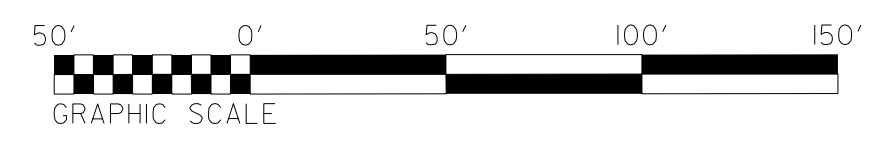
REVISIONS

8/17/99

SECTION 100.00' TO 100.00'

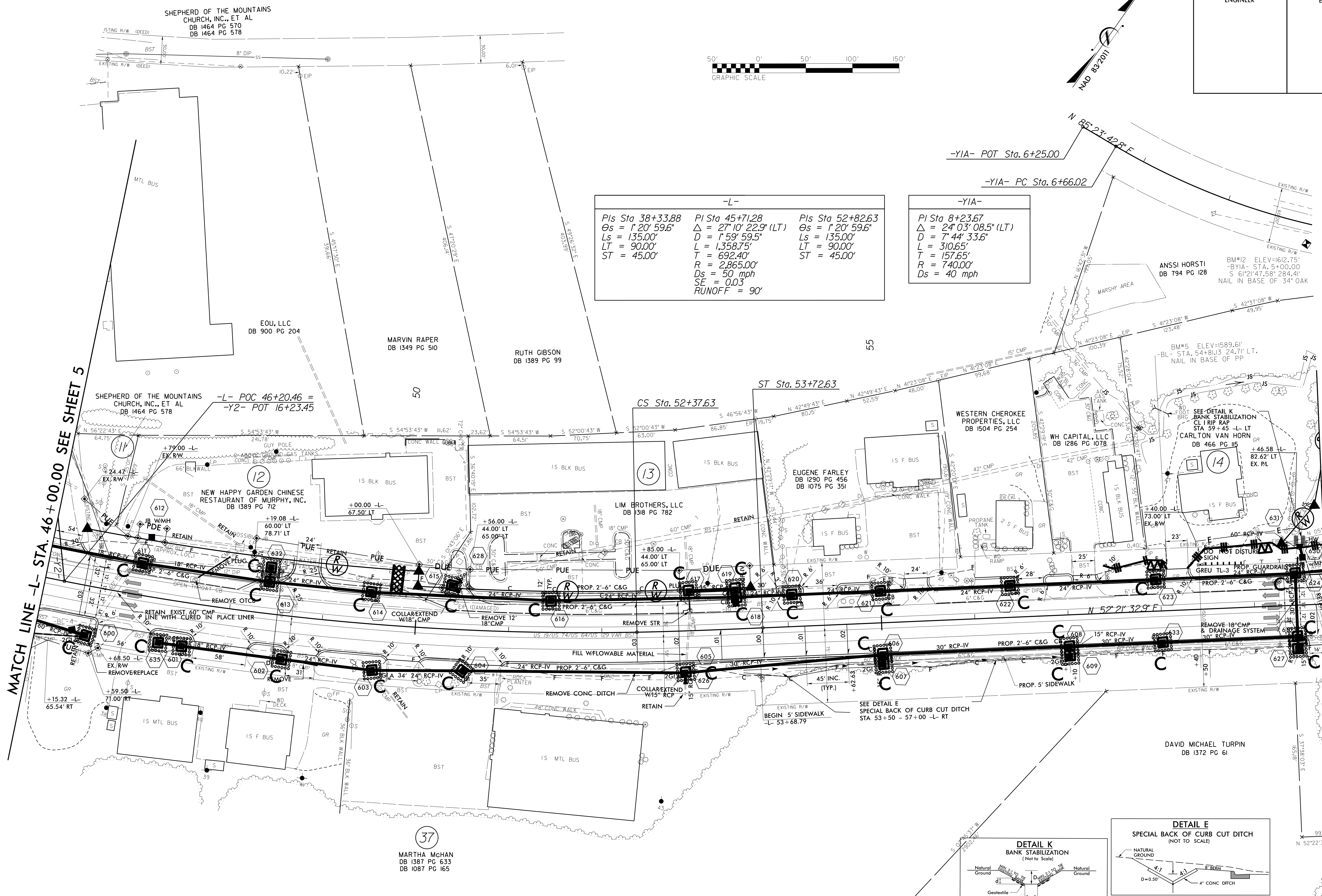


PROJECT REFERENCE NO. R-5735		SHEET NO. EC-12/CONST.06	
RW SHEET NO.			
ROADWAY DESIGN ENGINEER		HYDRAULICS ENGINEER	



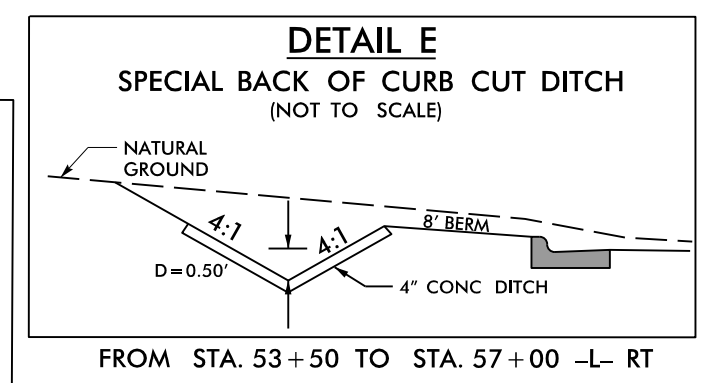
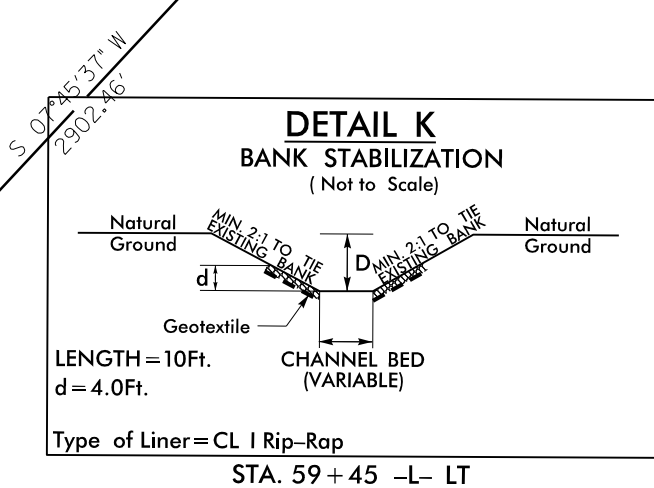
-L-		
PIs Sta 38+33.88	PI Sta 45+71.28	PIs Sta 52+82.63
Δs = 1'20" 59.6"	Δ = 27'10" 22.9" (LT)	Δs = 1'20" 59.6"
Ls = 135.00'	D = 1'59" 59.5"	Ls = 135.00'
LT = 90.00'	L = 1,358.75'	LT = 90.00'
ST = 45.00'	T = 692.40'	ST = 45.00'
	R = 2,865.00'	
	Ds = 50 mph	
	SE = 0.03	
	RUNOFF = 90'	

-YIA-
PI Sta 8+23.67
Δ = 2'03" 08.5" (LT)
D = 7'44" 33.6"
L = 310.65'
T = 157.65'
R = 740.00'
Ds = 40 mph



MATCH LINE -L- STA. 46+00.00 SEE SHEET 5

MATCH LINE -L- STA. 59+75.00 SEE SHEET 7



FOR -L- PROFILE SEE SHEET 11

REVISIONS

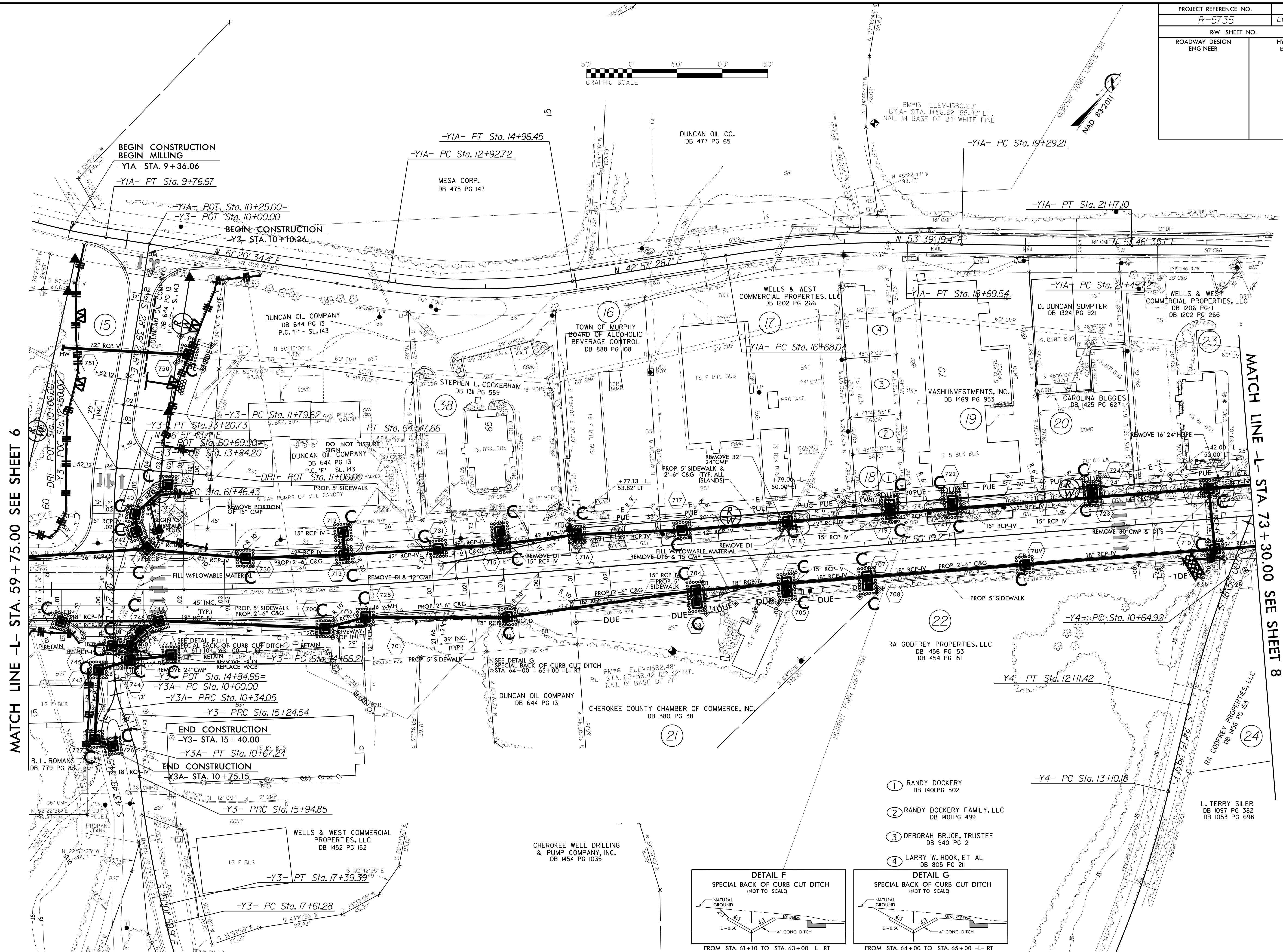
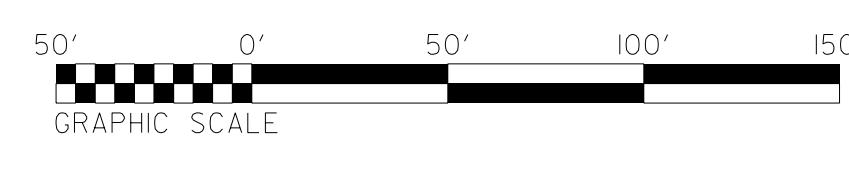
8/17/99

SECTION 100' LONG

37  
MARTHA MCHAN  
DB 1387 PG 633  
DB 1087 PG 165



PROJECT REFERENCE NO. R-5735		SHEET NO. EC-13/CONST.07	
RW SHEET NO.			
ROADWAY DESIGN ENGINEER		HYDRAULICS ENGINEER	



MATCH LINE -L- STA. 59 + 75.00 SEE SHEET 6

MATCH LINE -L- STA. 73 + 30.00 SEE SHEET 8

REVISIONS

BEGIN CONSTRUCTION  
BEGIN MILLING  
-Y1A- STA. 9+36.06  
-Y1A- PT Sta. 9+76.67

BEGIN CONSTRUCTION  
-Y3- STA. 10+10.26

-Y3- PT Sta. 13+20.73  
-Y3- PC Sta. 11+79.62  
-Y3- POT Sta. 13+84.20

END CONSTRUCTION  
-Y3- STA. 15+40.00  
-Y3A- PT Sta. 10+67.24  
END CONSTRUCTION  
-Y3A- STA. 10+75.15

-Y3- PRC Sta. 15+24.54  
-Y3- PRC Sta. 15+94.85

-Y3- PT Sta. 17+39.39  
-Y3- PC Sta. 17+61.28

-Y1A- PT Sta. 14+96.45  
-Y1A- PC Sta. 12+92.72

-Y1A- PC Sta. 19+29.21

-Y1A- PT Sta. 21+17.10

-Y1A- PT Sta. 18+69.54

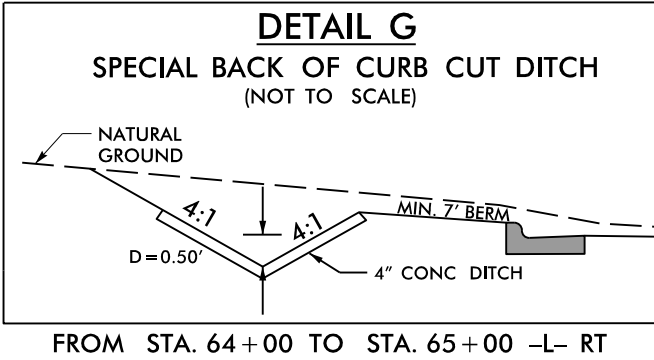
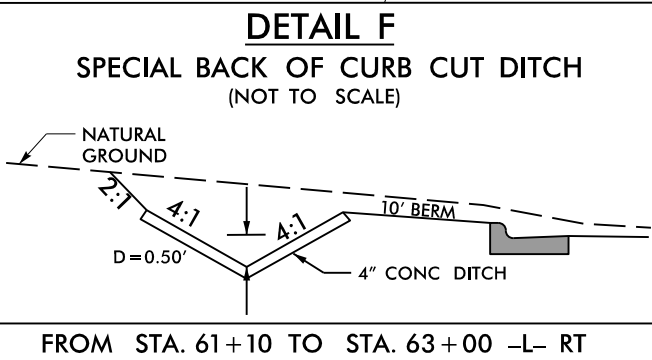
-Y1A- PC Sta. 21+45.72

PT Sta. 64+47.66

-Y4- PC Sta. 10+64.92

-Y4- PT Sta. 12+11.42

-Y4- PC Sta. 13+10.18



- ① RANDY DOCKERY  
DB 1401 PG 502
- ② RANDY DOCKERY FAMILY, LLC  
DB 1401 PG 499
- ③ DEBORAH BRUCE, TRUSTEE  
DB 940 PG 2
- ④ LARRY W. HOOK, ET AL  
DB 805 PG 211

CHEROKEE WELL DRILLING & PUMP COMPANY, INC.  
DB 1454 PG 1035

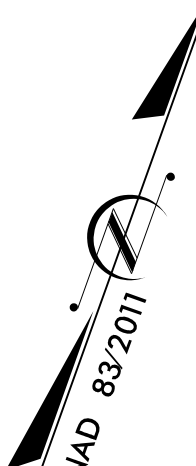
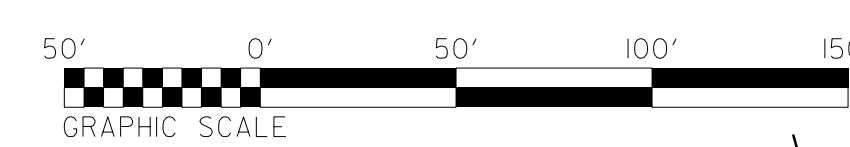
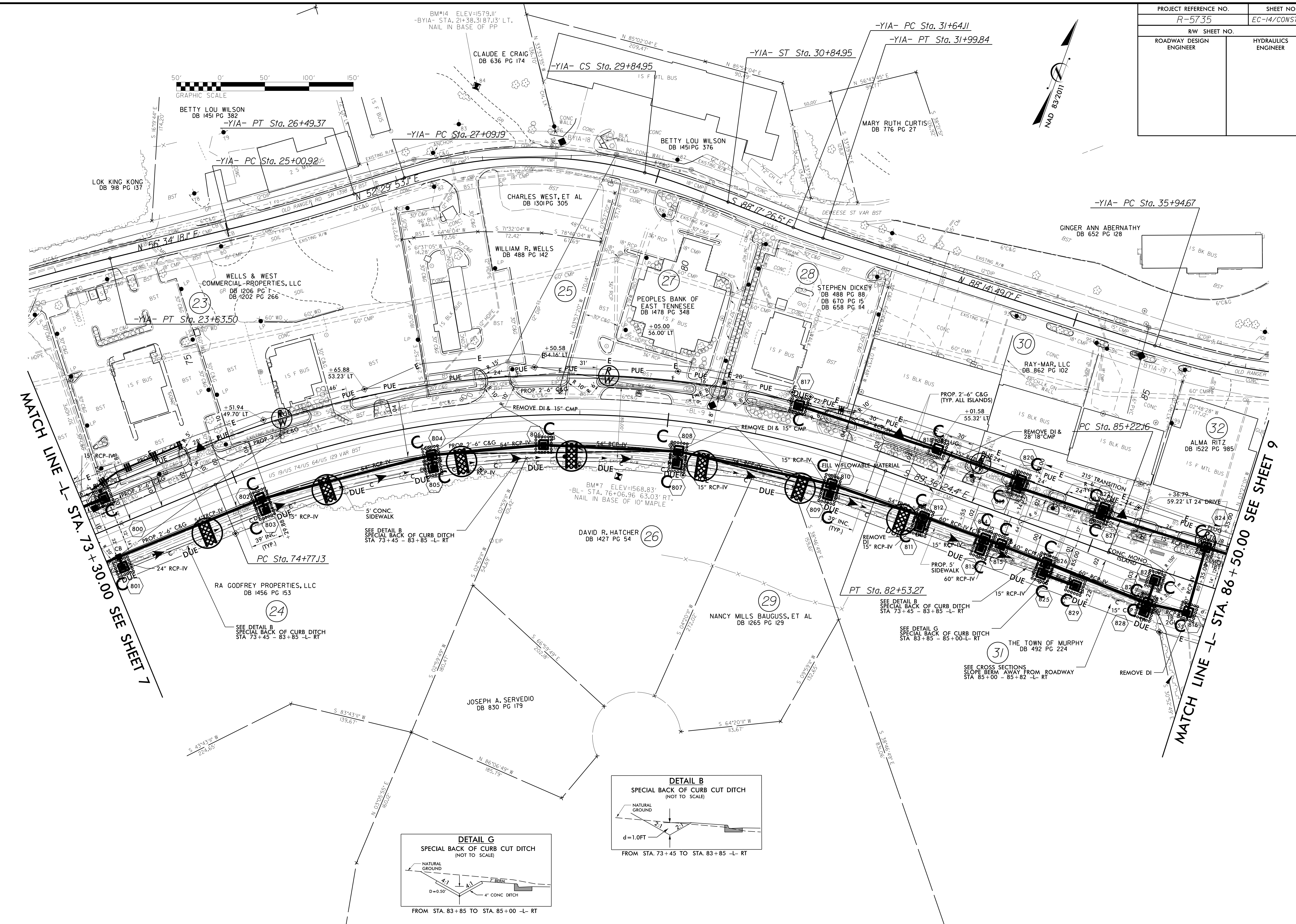
L. TERRY SILER  
DB 1097 PG 382  
DB 1053 PG 698

8/17/99



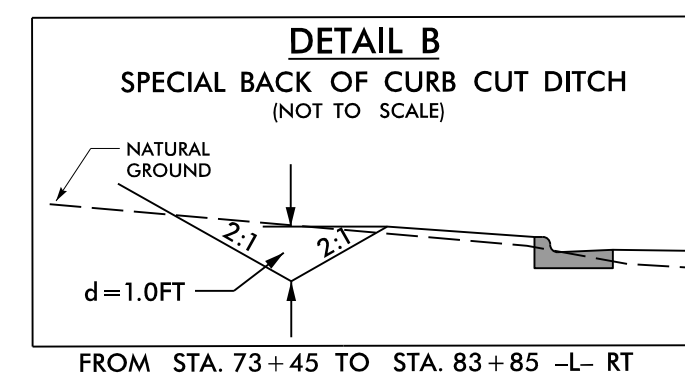
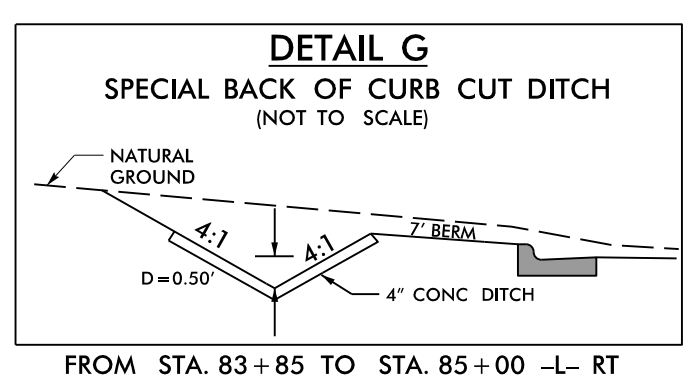
PROJECT REFERENCE NO. R-5735	SHEET NO. EC-14/CONST.08
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

8/17/99



MATCH LINE -L- STA. 73+30.00 SEE SHEET 7

MATCH LINE -L- STA. 86+50.00 SEE SHEET 9



SCHEMATIC DEVELOPMENT BY: [unreadable]



