

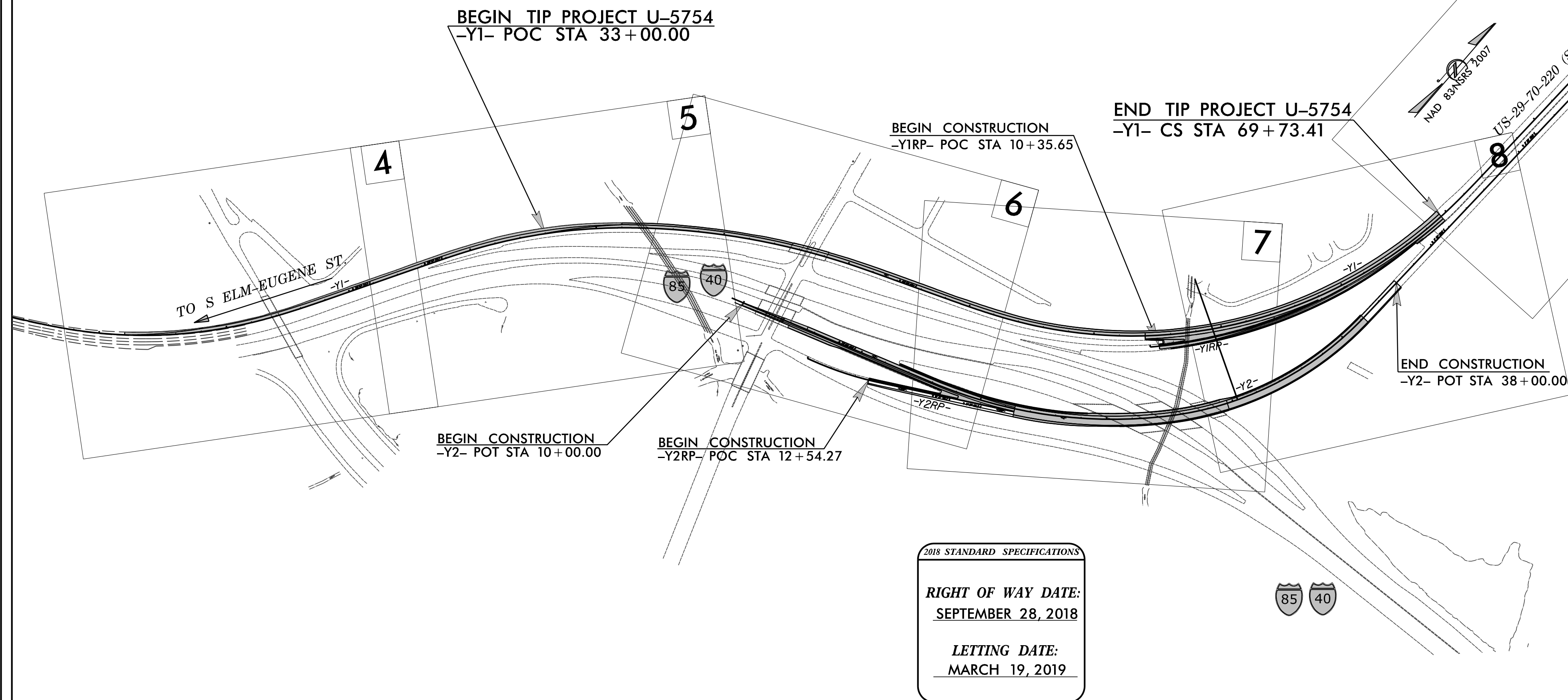
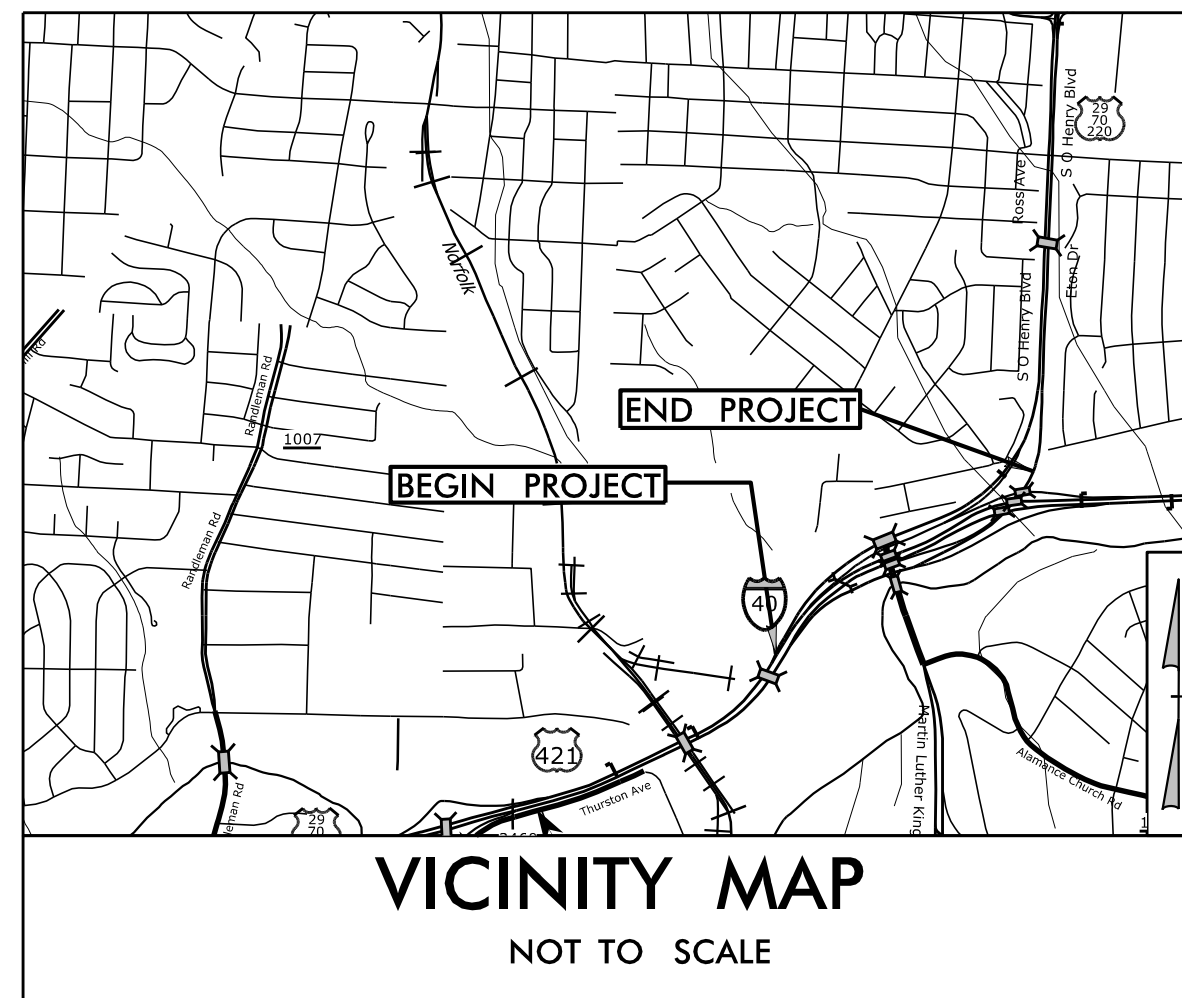
**TIP PROJECT: U-5754**

**CONTRACT: C204295**

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

**LOCATION: US 29 /US 70 /US 220 (O'HENRY BOULEVARD) FROM I-40 /  
BUSINESS 85 TO SOUTH OF FLORIDA STREET IN GREENSBORO**  
**TYPE OF WORK: GRADING, PAVING, AND DRAINAGE**

STATE	STATE PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.	U-5754	EC-1	
STATE PROJ. NO.	F.A. PROJ. NO.	DESCRIPTION	
54034.1.1	NHP-0029(065)	P.E.	
54034.2.1	NHP-0029(065)	ROW	
54034.3.1	NHP-0029(065)	CONST	



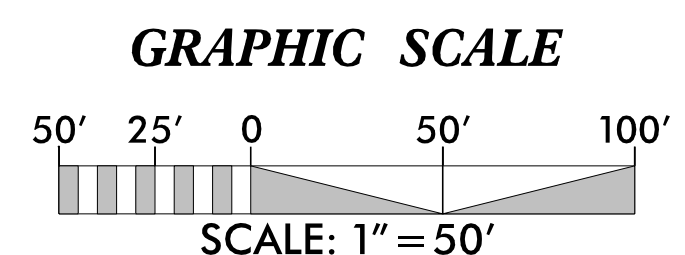
**EROSION AND SEDIMENT CONTROL MEASURES**

Std. #	Description	Symbol
1630.03	Temporary Silt Ditch	no
1630.05	Temporary Diversion	TD
1605.01	Temporary Silt Fence	
1606.01	Special Sediment Control Fence	▲▲▲
1622.01	Temporary Berms and Slope Drains	—
1630.02	Silt Basin Type B	▨
1633.01	Temporary Rock Silt Check Type-A	⊗
	Temporary Rock Silt Check Type-A with Matting and Polyacrylamide (PAM)	⊗
1633.02	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.

THIS PROJECT HAS  
BEEN DESIGNED TO  
SENSITIVE WATERSHED  
STANDARDS.

ENVIRONMENTALLY  
SENSITIVE AREA(S) EXIST  
ON THIS PROJECT  
*Refer To E. C. Special Provisions  
for Special Considerations.*



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 ENVIRONMENTAL QUALITY DIVISION OF WATER RESOURCES.

Prepared in the Office of:  
**SUNGATE DESIGN GROUP, P.A.**  
905 JONES FRANKLIN ROAD  
RALEIGH, NORTH CAROLINA 27606  
TEL (919) 858-2243  
ENG FIRM LICENSE NO. C-890

Designed by:  
**MATTHEW C. EDWARDS, EI** 3992  
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:  
**JENNIFER PARISH, EI, CPESC, CPSWQ**

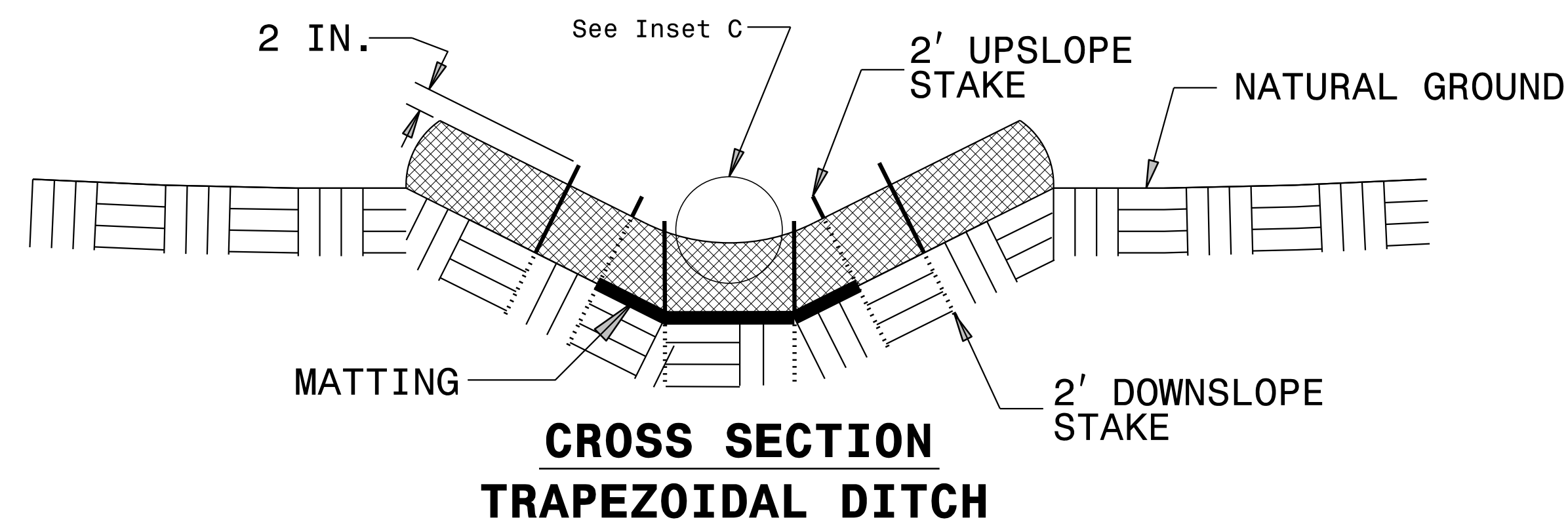
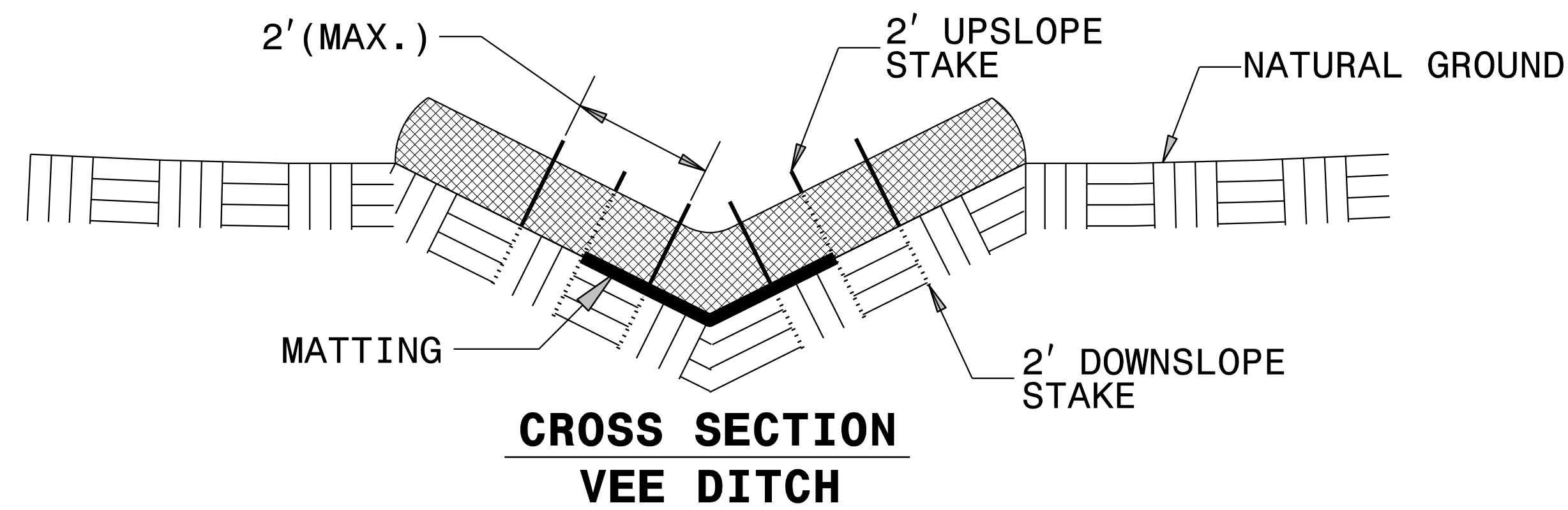
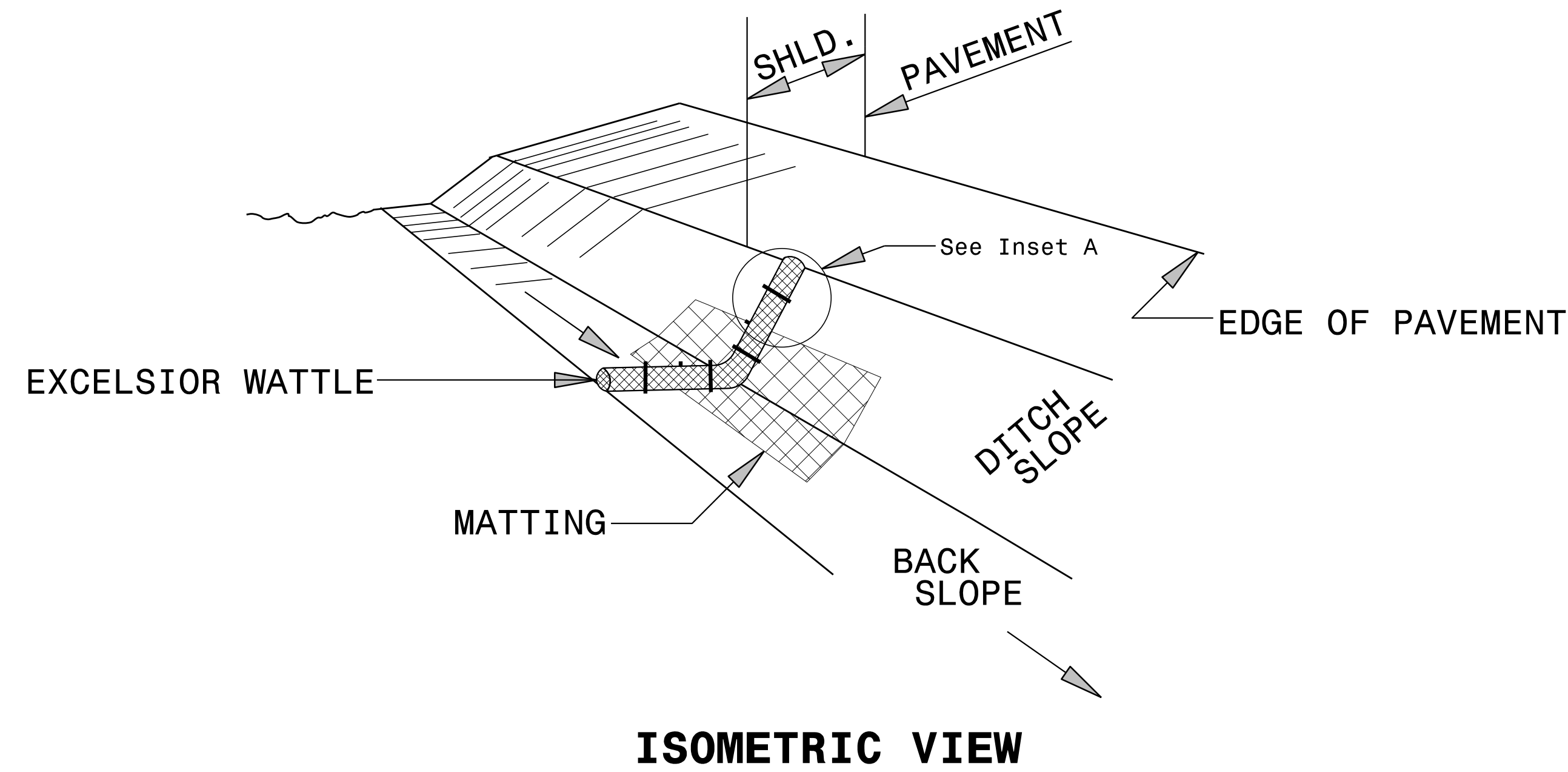
Roadway Standard Drawings

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	

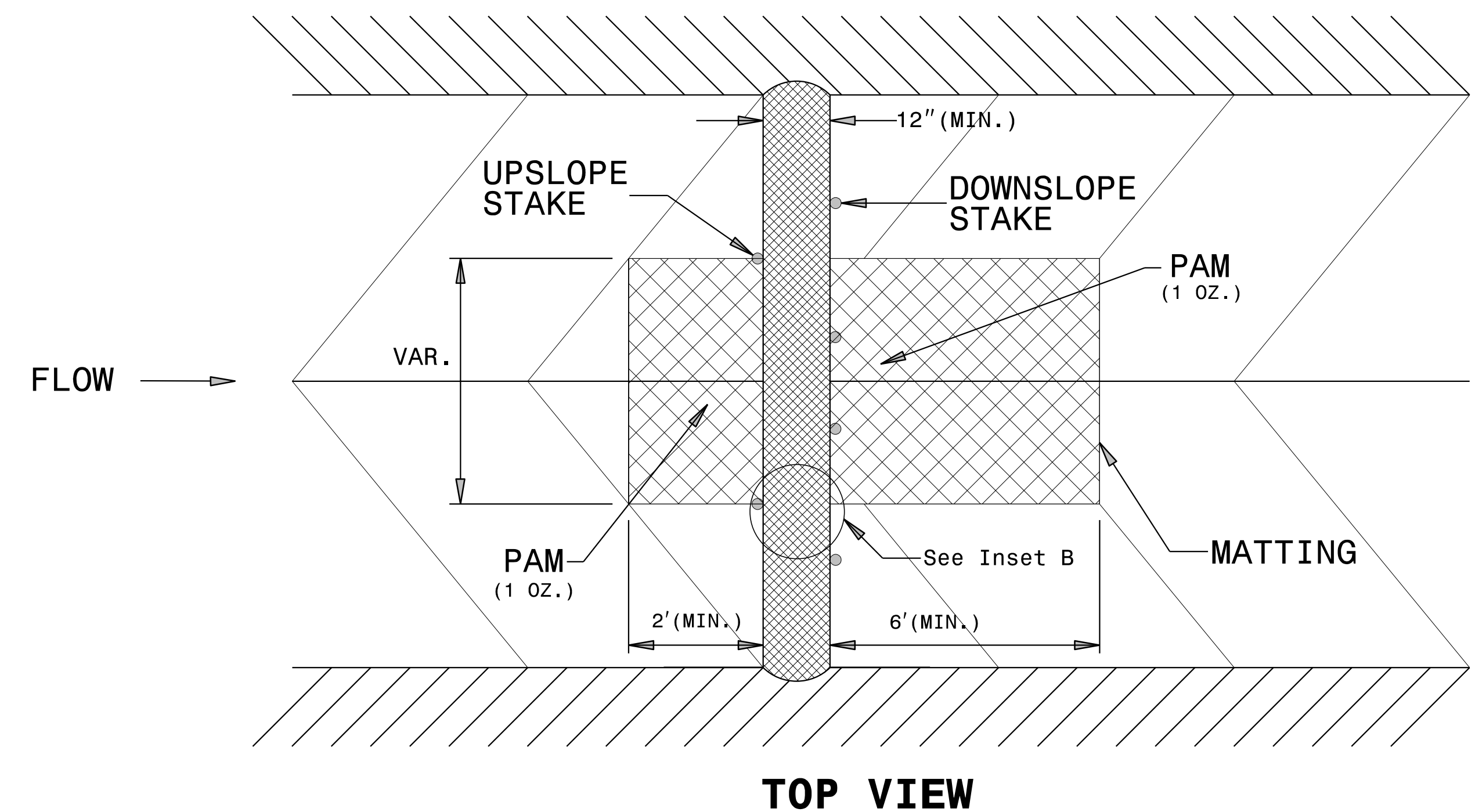
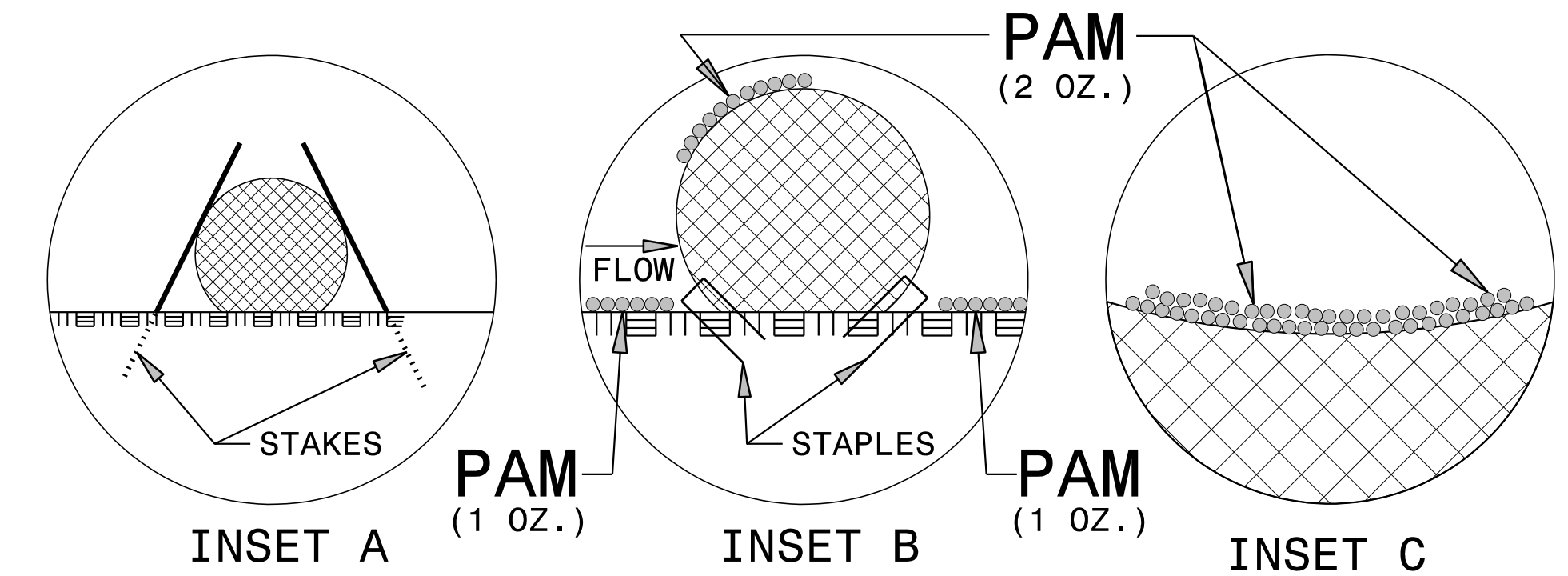
PROJECT REFERENCE NO. U-5754	SHEET NO. EC-2
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

# WATTLE WITH POLYACRYLAMIDE (PAM) DETAIL



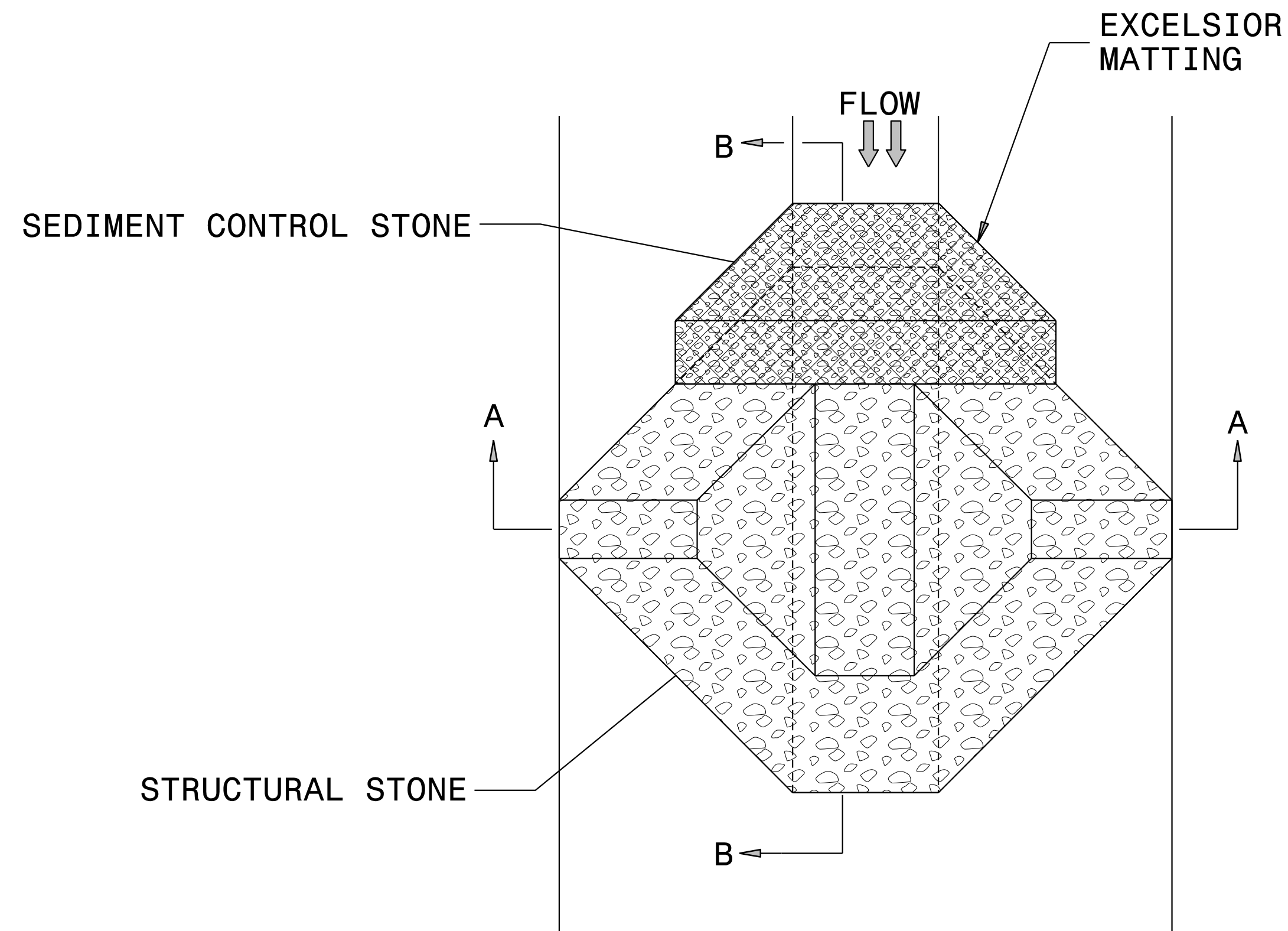
**NOTES:**

- 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 EACH SIDE OF WATTLE. REAPPLY PAM AFTER EVERY RAINFALL EVENT THAT IS EQUAL TO OR EXCEEDS 0.50 IN.

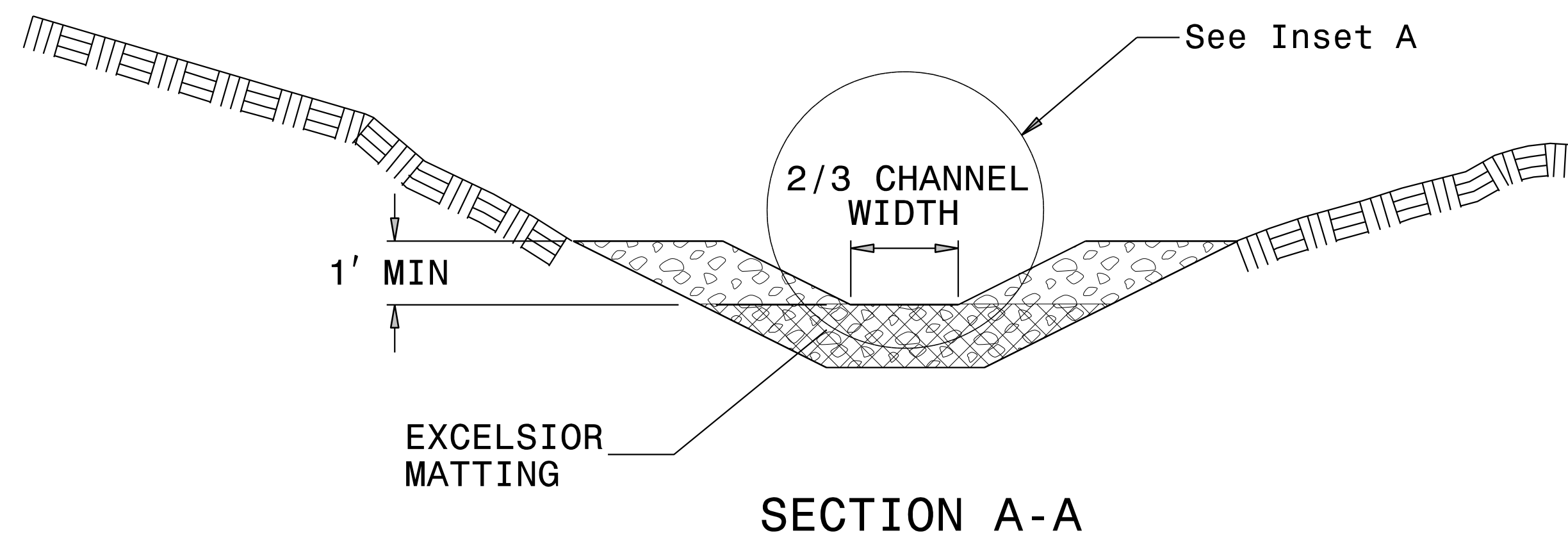


PROJECT REFERENCE NO. U-5754	SHEET NO. EC-2A
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

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



PLAN



SECTION A-A

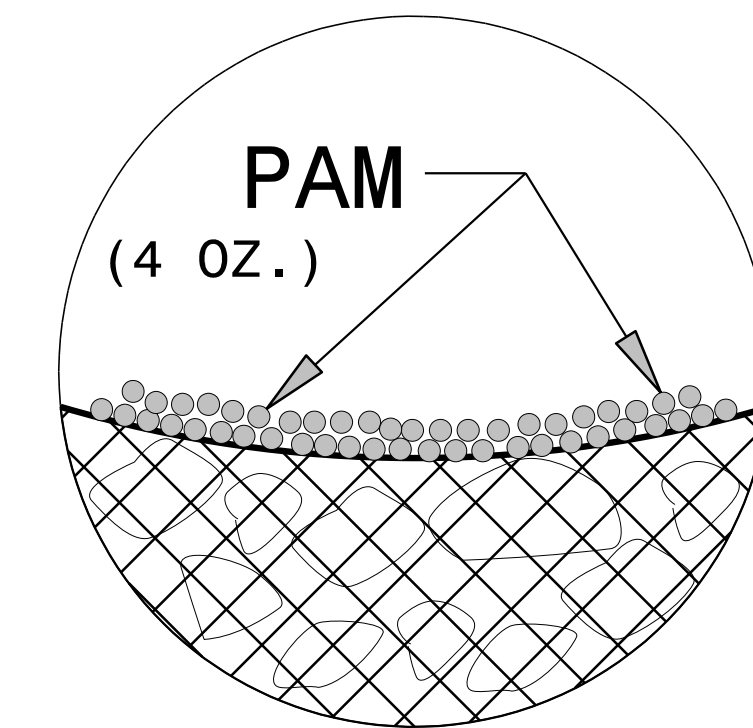
NOTES:

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

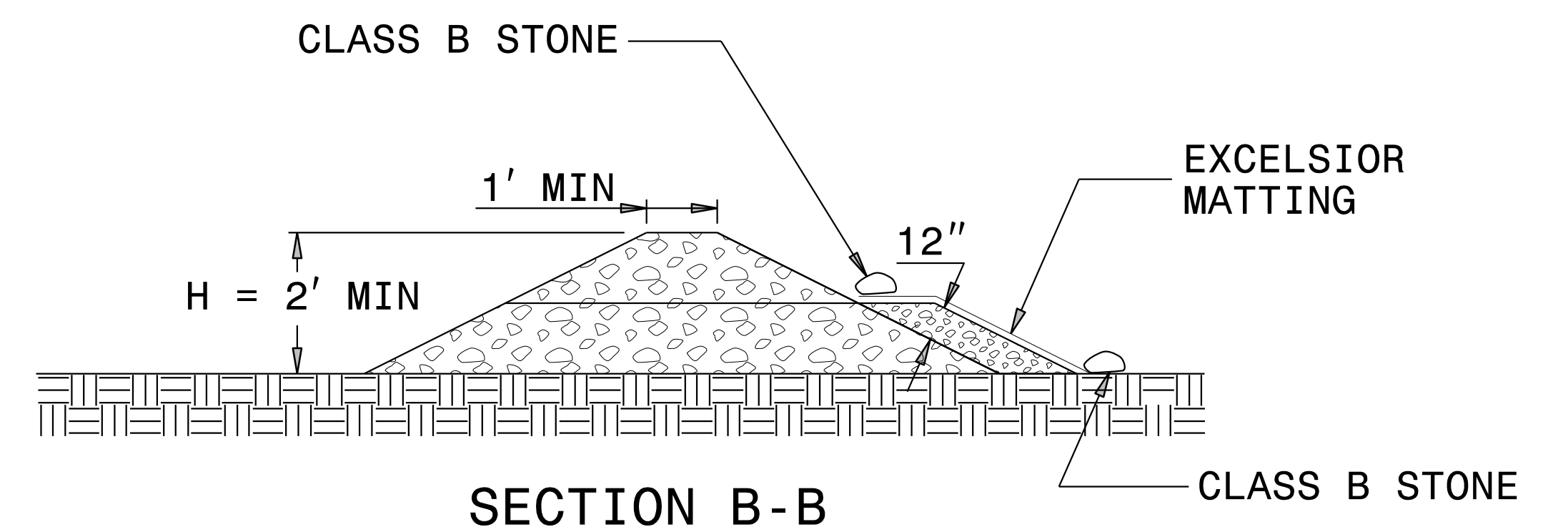
USE EXCELSIOR FOR MATTING MATERIAL AND ANCHOR MATTING SECTION AT TOP AND BOTTOM WITH CLASS B STONE.

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 B-B

NOT TO SCALE



DIVISION OF HIGHWAYS  
STATE OF NORTH CAROLINA

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PROJECT REFERENCE NO. <i>U-5754</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.



NAD 83/NSRS 2007

-YI-		
Pls Sta 12+89.27	PI Sta 17+57.89	Pls Sta 22+18.60
Os = 5' 58" 05.9"	Δ = 21' 37" 27.0" (LT)	Os = 5' 58" 05.9"
Ls = 375.00'	D = 3' 10' 59.2"	Ls = 375.00'
LT = 250.14'	L = 679.34'	LT = 250.14'
ST = 125.13'	T = 343.76'	ST = 125.13'
	R = 1,800.00'	
	DS = 60 MPH	
	SE = EXIST	

PROJECT REFERENCE NO.	SHEET NO.
U-5754	EC-04/CONST.04
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

CLEARING AND GRUBBING  
EROSION CONTROL FOR  
CONSTRUCTION SHEET 04

-YI- SC Sta. 14+14.13

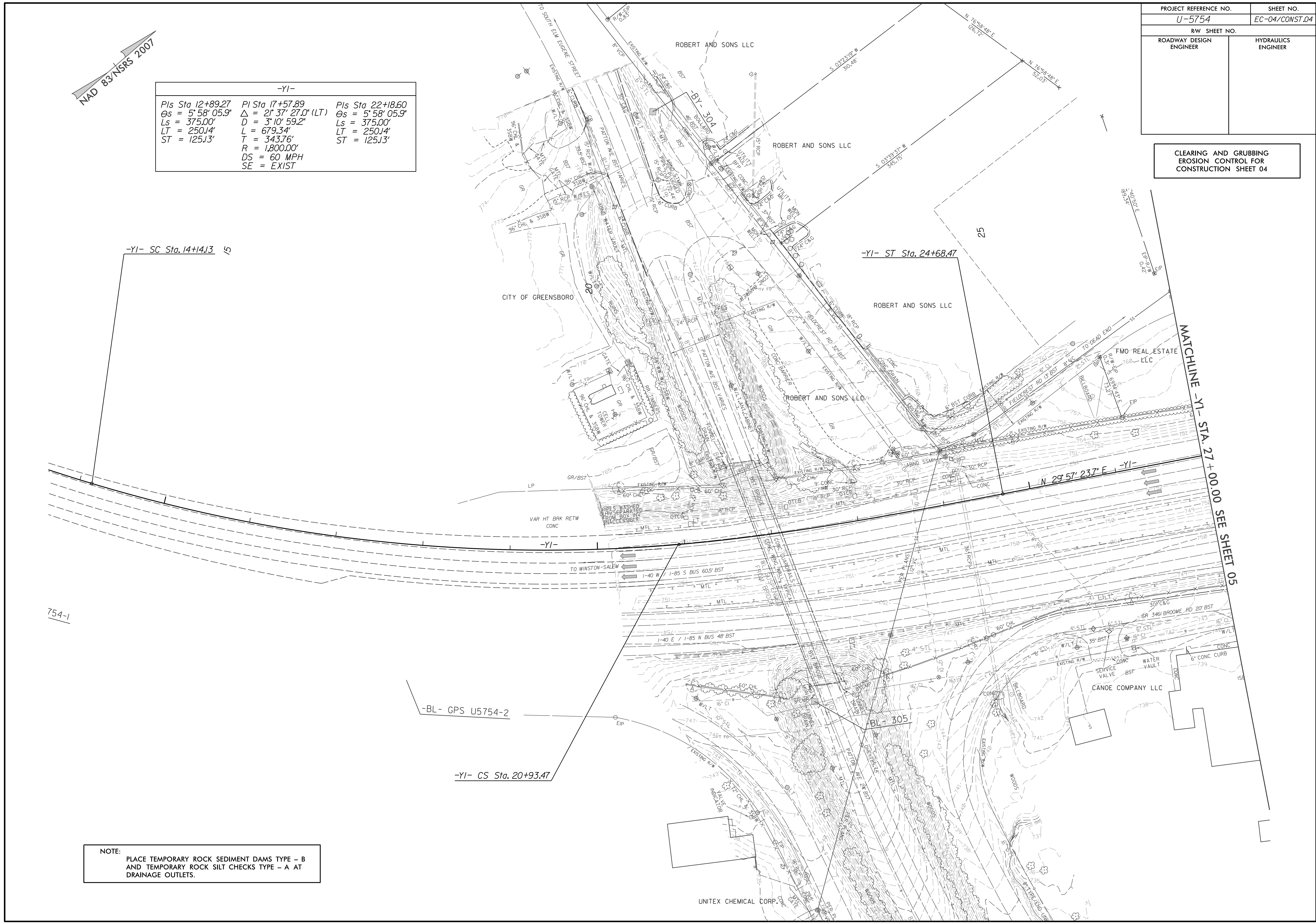
-YI- ST Sta. 24+68.47

754-1

-BL- GPS U5754-2

-YI- CS Sta. 20+93.47

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

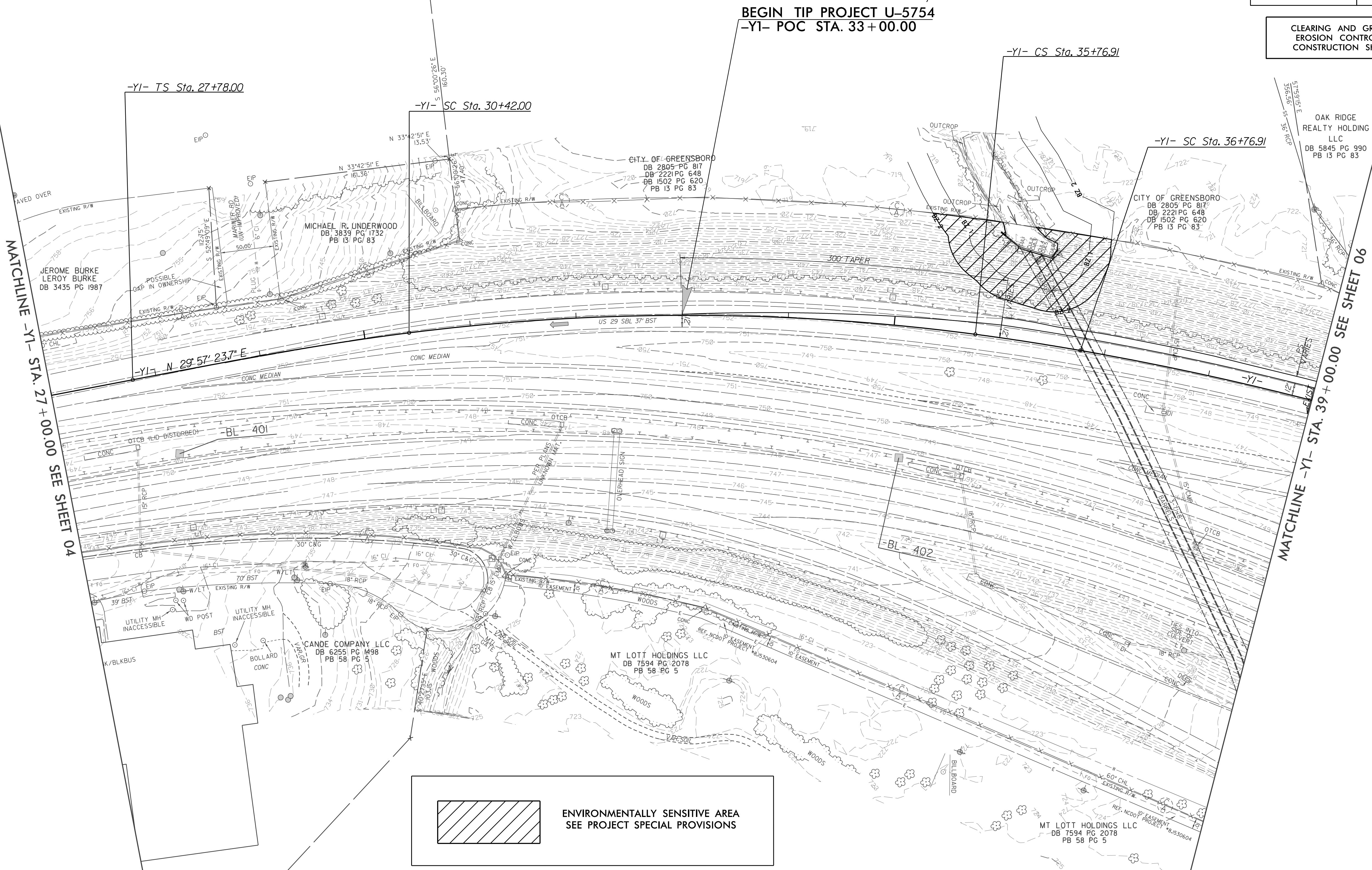




PROJECT REFERENCE NO.	SHEET NO.
U-5754	EC-05/CONST.05
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

-Y1-			
Pls Sta 29+54.04	Pls Sta 33+10.94	Pls Sta 36+24.38	Pls Sta 40+77.84
$\Delta s = 3' 38" 09.9"$	$\Delta = 14' 44" 04.3" (RT)$	$\Delta s = 1' 00' 50.6"$	$\Delta = 16' 09' 19.8" (RT)$
$Ls = 264.00'$	$D = 2' 45' 16.6"$	$Ls = 1' 22' 38.4"$	$D = 2' 01' 41.4"$
$LT = 176.04'$	$L = 534.91'$	$Ls = 100.00'$	$L = 796.56'$
$ST = 88.03'$	$T = 268.94'$	$LT = 52.54'$	$T = 400.94'$
	$R = 2,080.00'$		$R = 2,825.00'$
	$DS = 60 MPH$		$DS = 60 MPH$
	$SE = EXIST$		$SE = EXIST$

NAD 83/NRS 2007



CLEARING AND GRUBBING  
EROSION CONTROL FOR  
CONSTRUCTION SHEET 05

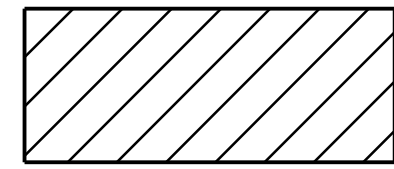
 ENVIRONMENTALLY SENSITIVE AREA  
SEE PROJECT SPECIAL PROVISIONS

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

SEE SHEETS 10 AND 11 FOR  
-Y1- PROFILE



PROJECT REFERENCE NO.	SHEET NO.
U-5754	EC-06/CONST.06
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

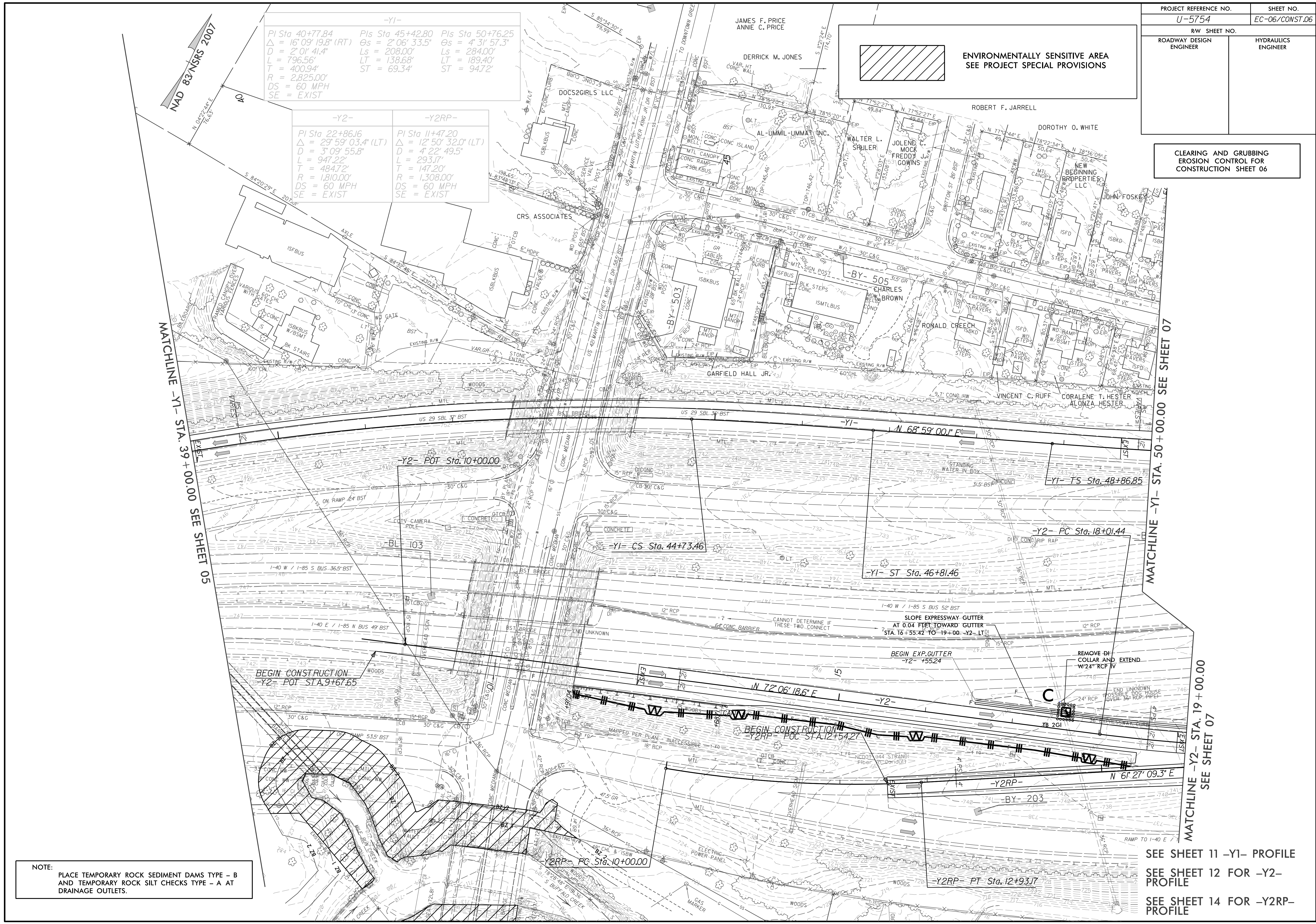


ENVIRONMENTALLY SENSITIVE AREA  
SEE PROJECT SPECIAL PROVISIONS

CLEARING AND GRUBBING  
EROSION CONTROL FOR  
CONSTRUCTION SHEET 06

-Y1-		
PI Sta 40+77.84	PIs Sta 45+42.80	PIs Sta 50+76.25
$\Delta = 16' 09" 19.8" (RT)$	$\Theta s = 2' 06" 33.5"$	$\Theta s = 4' 31" 57.3"$
$D = 2' 01" 41.4"$	$Ls = 208.00'$	$Ls = 284.00'$
$L = 796.56'$	$LT = 138.68'$	$LT = 189.40'$
$T = 400.94'$	$ST = 69.34'$	$ST = 94.72'$
$R = 2,825.00'$		
$DS = 60 MPH$		
$SE = EXIST$		

-Y2-	-Y2RP-
PI Sta 22+86.16	PI Sta 11+47.20
$\Delta = 29' 59" 03.4" (LT)$	$\Delta = 12' 50" 32.0" (LT)$
$D = 3' 09" 55.8"$	$D = 4' 22" 49.5"$
$L = 947.22'$	$L = 293.17'$
$T = 484.72'$	$R = 147.20'$
$R = 1,810.00'$	$R = 1,308.00'$
$DS = 60 MPH$	$DS = 60 MPH$
$SE = EXIST$	$SE = EXIST$



MATCHLINE -Y1- STA. 39+00.00 SEE SHEET 05

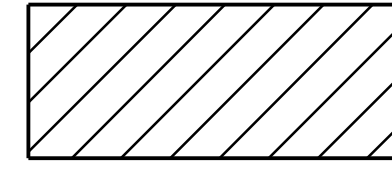
MATCHLINE -Y1- STA. 50+00.00 SEE SHEET 07

MATCHLINE -Y2- STA. 19+00.00 SEE SHEET 07

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

SEE SHEET 11 -Y1- PROFILE  
SEE SHEET 12 FOR -Y2-  
PROFILE  
SEE SHEET 14 FOR -Y2RP-  
PROFILE





ENVIRONMENTALLY SENSITIVE AREA  
SEE PROJECT SPECIAL PROVISIONS

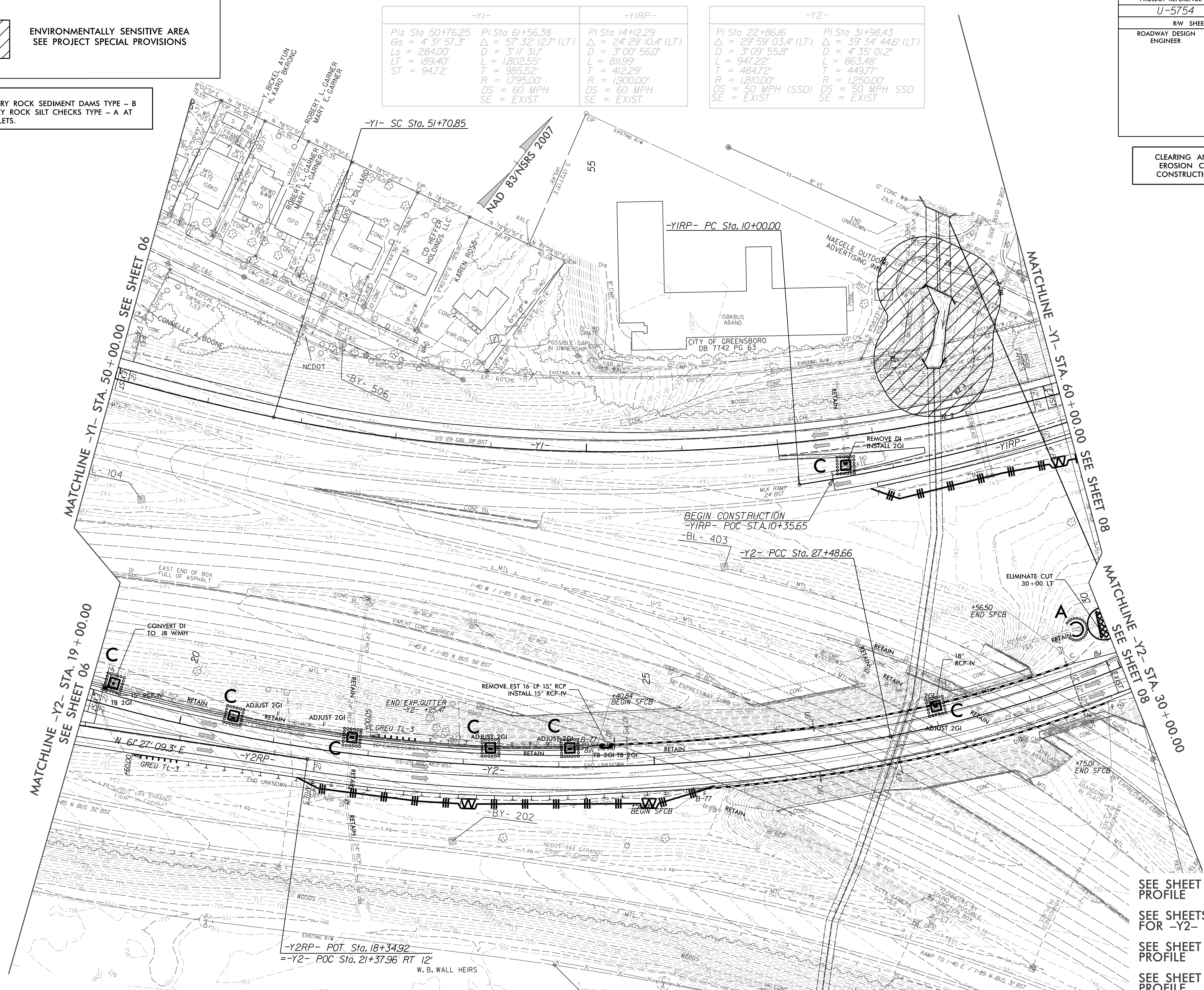
NOTE:

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

-Y1-		-Y1RP-		-Y2-	
PI Sta 50+76.25	PI Sta 61+56.38	PI Sta 14+12.29	PI Sta 22+86.16	PI Sta 31+98.43	
$\theta_s = 4' 31' 57.3''$	$\Delta = 57' 32' 12.7''$ (LT)	$\Delta = 24' 29' 10.4''$ (LT)	$\Delta = 29' 59' 03.4''$ (LT)	$\Delta = 39' 34' 44.6''$ (LT)	
$L_s = 284.00'$	$D = 3' 11' 31''$	$D = 3' 00' 56.0''$	$D = 3' 09' 55.8''$	$D = 4' 35' 01.2''$	
$LT = 189.40'$	$L = 1,802.55'$	$L = 811.99'$	$L = 947.22'$	$L = 863.48'$	
$ST = 94.72'$	$T = 985.52'$	$T = 412.29'$	$T = 484.72'$	$T = 449.77'$	
	$R = 1,795.00'$	$R = 1,900.00'$	$R = 1,810.00'$	$R = 1,250.00'$	
	$DS = 60$ MPH	$DS = 60$ MPH	$DS = 50$ MPH (SSD)	$DS = 50$ MPH SSD	
	$SE = EXIST$	$SE = EXIST$	$SE = EXIST$	$SE = EXIST$	

PROJECT REFERENCE NO. U-5754	SHEET NO. EC-07/CONST.07
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

CLEARING AND GRUBBING  
EROSION CONTROL FOR  
CONSTRUCTION SHEET 07



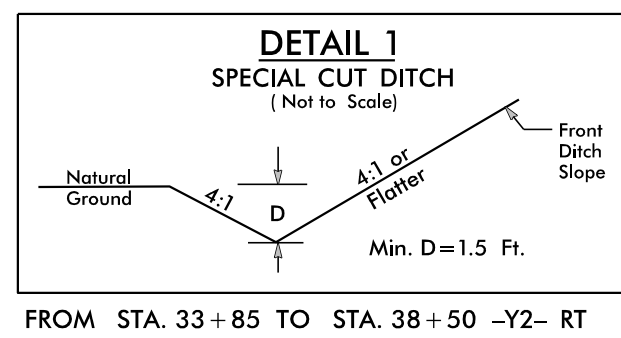
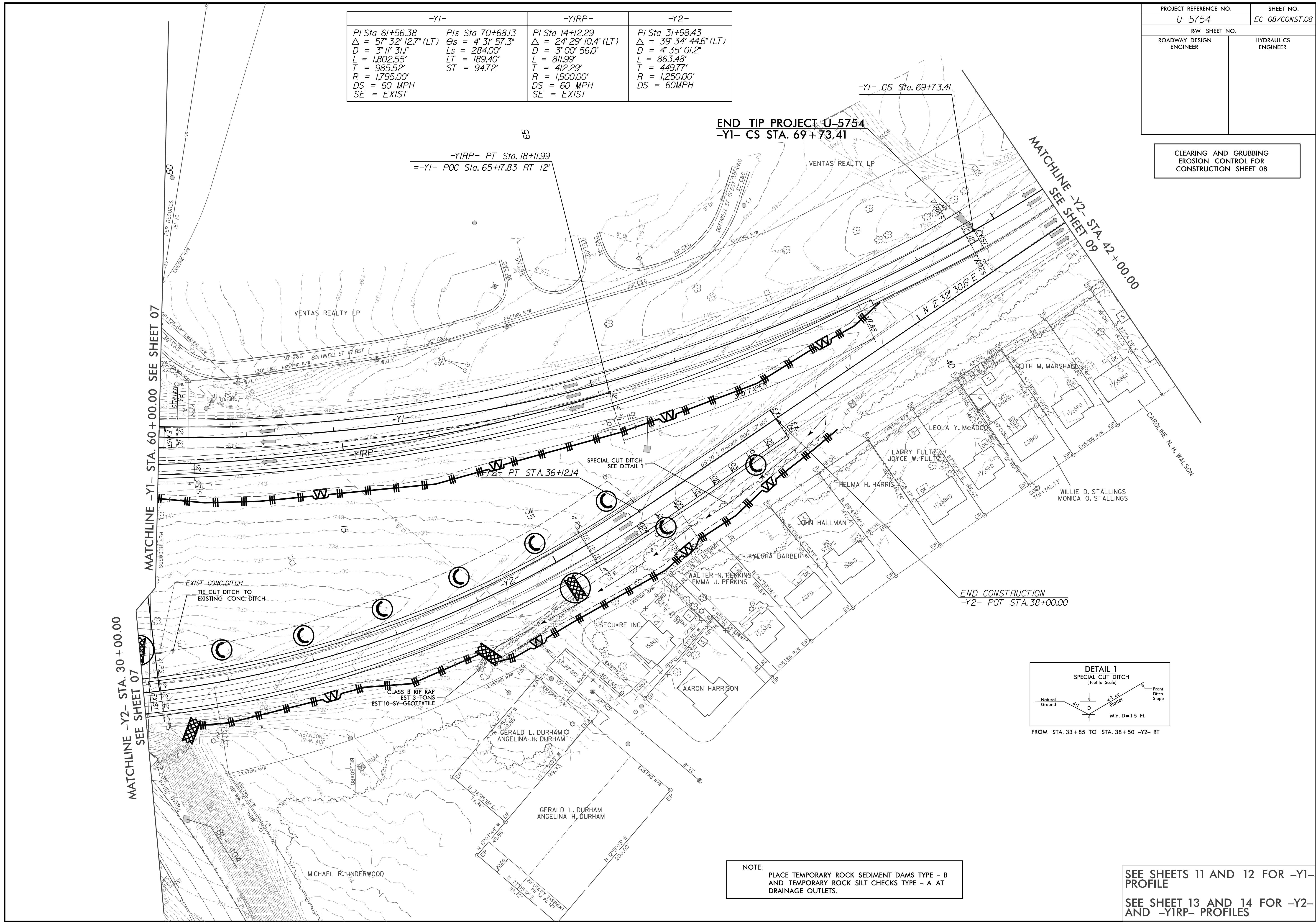
SEE SHEET 12 FOR -Y1-  
PROFILE  
SEE SHEETS 12 AND 13  
FOR -Y2- PROFILE  
SEE SHEET 14 FOR -Y1RP-  
PROFILE  
SEE SHEET 14 FOR -Y2RP-  
PROFILE



PROJECT REFERENCE NO.	SHEET NO.
U-5754	EC-08/CONST.08
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

CLEARING AND GRUBBING  
EROSION CONTROL FOR  
CONSTRUCTION SHEET 08

-Y1-		-Y1RP-	-Y2-
PI Sta 61+56.38	PIs Sta 70+68.13	PI Sta 14+12.29	PI Sta 31+98.43
$\Delta = 57^{\circ} 32' 12.7" (LT)$	$\Theta_s = 4^{\circ} 31' 57.3"$	$\Delta = 24^{\circ} 29' 10.4" (LT)$	$\Delta = 39^{\circ} 34' 44.6" (LT)$
$D = 3^{\circ} 11' 31.1"$	$L_s = 284.00'$	$D = 3^{\circ} 00' 56.0"$	$D = 4^{\circ} 35' 01.2"$
$L = 1,802.55'$	$LT = 189.40'$	$L = 811.99'$	$L = 863.48'$
$T = 985.52'$	$ST = 94.72'$	$T = 412.29'$	$T = 449.77'$
$R = 1,795.00'$		$R = 1,900.00'$	$R = 1,250.00'$
$DS = 60 MPH$		$DS = 60 MPH$	$DS = 60 MPH$
$SE = EXIST$		$SE = EXIST$	



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

SEE SHEETS 11 AND 12 FOR -Y1-  
PROFILE  
SEE SHEET 13 AND 14 FOR -Y2-  
AND -Y1RP- PROFILES



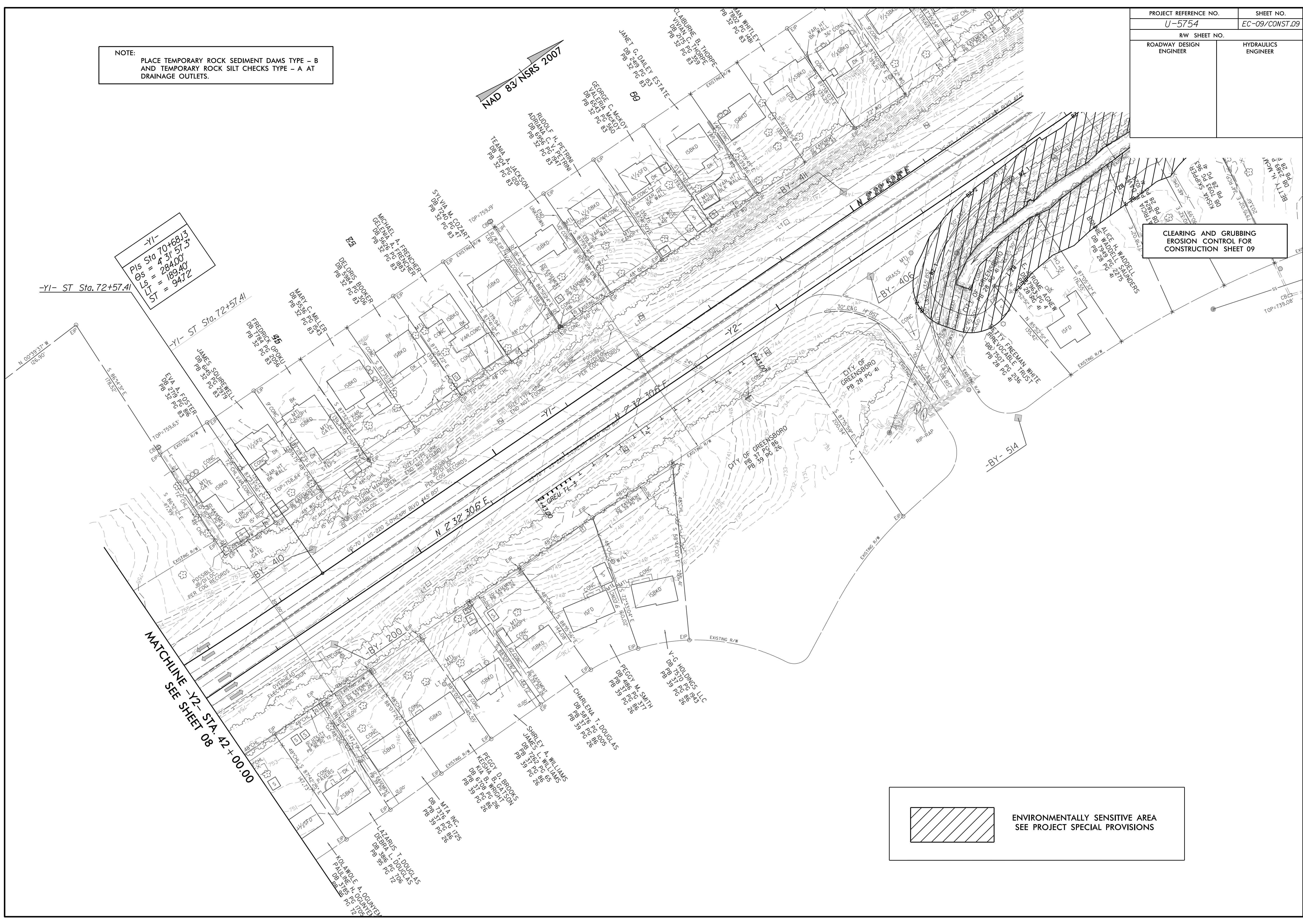
PROJECT REFERENCE NO.	SHEET NO.
U-5754	EC-09/CONST.09
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

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

NAD 83 NSRS 2007

-Y1-  
Sta 70+68.13  
Pis = 431.573  
Os = 284.00  
Ls = 189.40  
Lt = 94.72  
-Y1- ST Sta. 72+57.41

CLEARING AND GRUBBING  
EROSION CONTROL FOR  
CONSTRUCTION SHEET 09



 ENVIRONMENTALLY SENSITIVE AREA  
SEE PROJECT SPECIAL PROVISIONS

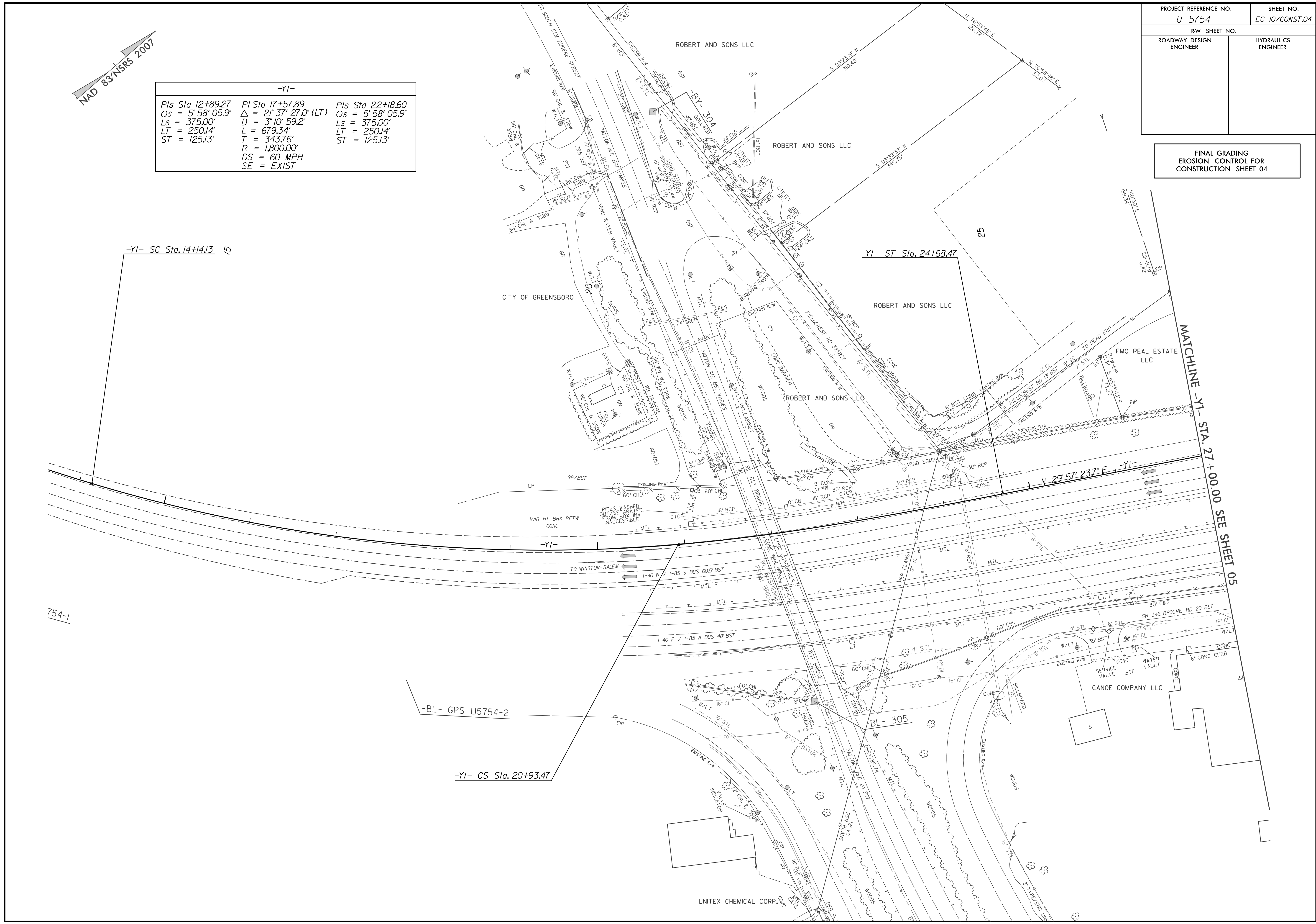


NAD 83/NSRS 2007

-YI-		
Pls Sta 12+89.27	PI Sta 17+57.89	Pls Sta 22+18.60
Os = 5' 58" 05.9"	Δ = 21' 37" 27.0" (LT)	Os = 5' 58" 05.9"
Ls = 375.00'	D = 3' 10" 59.2"	Ls = 375.00'
LT = 250.14'	L = 679.34'	LT = 250.14'
ST = 125.13'	T = 343.76'	ST = 125.13'
	DS = 60 MPH	
	SE = EXIST	

PROJECT REFERENCE NO.	SHEET NO.
U-5754	EC-10/CONST.04
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

FINAL GRADING  
EROSION CONTROL FOR  
CONSTRUCTION SHEET 04



-YI- SC Sta. 14+14.13

-YI- ST Sta. 24+68.47

-YI- CS Sta. 20+93.47

MATCHLINE -YI- STA. 27+00.00 SEE SHEET 05

754-1

-BL- GPS U5754-2

BL- 305

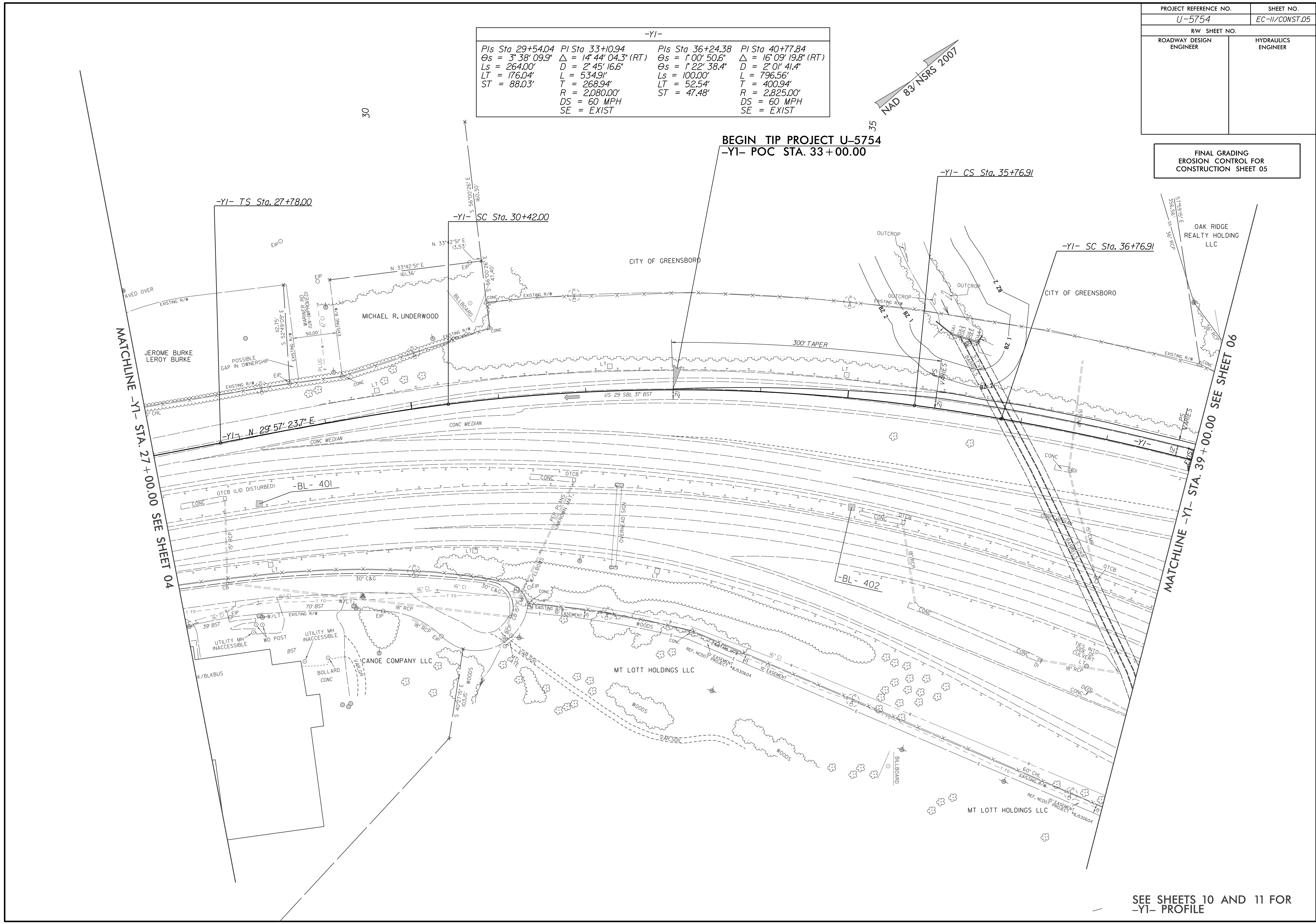
UNITEX CHEMICAL CORP.



PROJECT REFERENCE NO.	SHEET NO.
U-5754	EC-II/CONST.05
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

-Y1-			
Pls Sta. 29+54.04	Pls Sta. 33+10.94	Pls Sta. 36+24.38	Pls Sta. 40+77.84
$\Theta_s = 3^\circ 38' 09.9"$	$\Delta = 14^\circ 44' 04.3"$ (RT)	$\Theta_s = 1^\circ 00' 50.6"$	$\Delta = 16^\circ 09' 19.8"$ (RT)
$L_s = 264.00'$	$D = 2^\circ 45' 16.6"$	$\Theta_s = 1^\circ 22' 38.4"$	$D = 2^\circ 01' 41.4"$
$LT = 176.04'$	$L = 534.91'$	$L_s = 100.00'$	$L = 796.56'$
$ST = 88.03'$	$T = 268.94'$	$LT = 52.54'$	$T = 400.94'$
	$R = 2,080.00'$	$ST = 47.48'$	$R = 2,825.00'$
	$DS = 60$ MPH		$DS = 60$ MPH
	$SE = EXIST$		$SE = EXIST$

NAD 83 NRS 2007



FINAL GRADING  
EROSION CONTROL FOR  
CONSTRUCTION SHEET 05

MATCHLINE -Y1- STA. 27+00.00 SEE SHEET 04

MATCHLINE -Y1- STA. 39+00.00 SEE SHEET 06

SEE SHEETS 10 AND 11 FOR  
-Y1- PROFILE



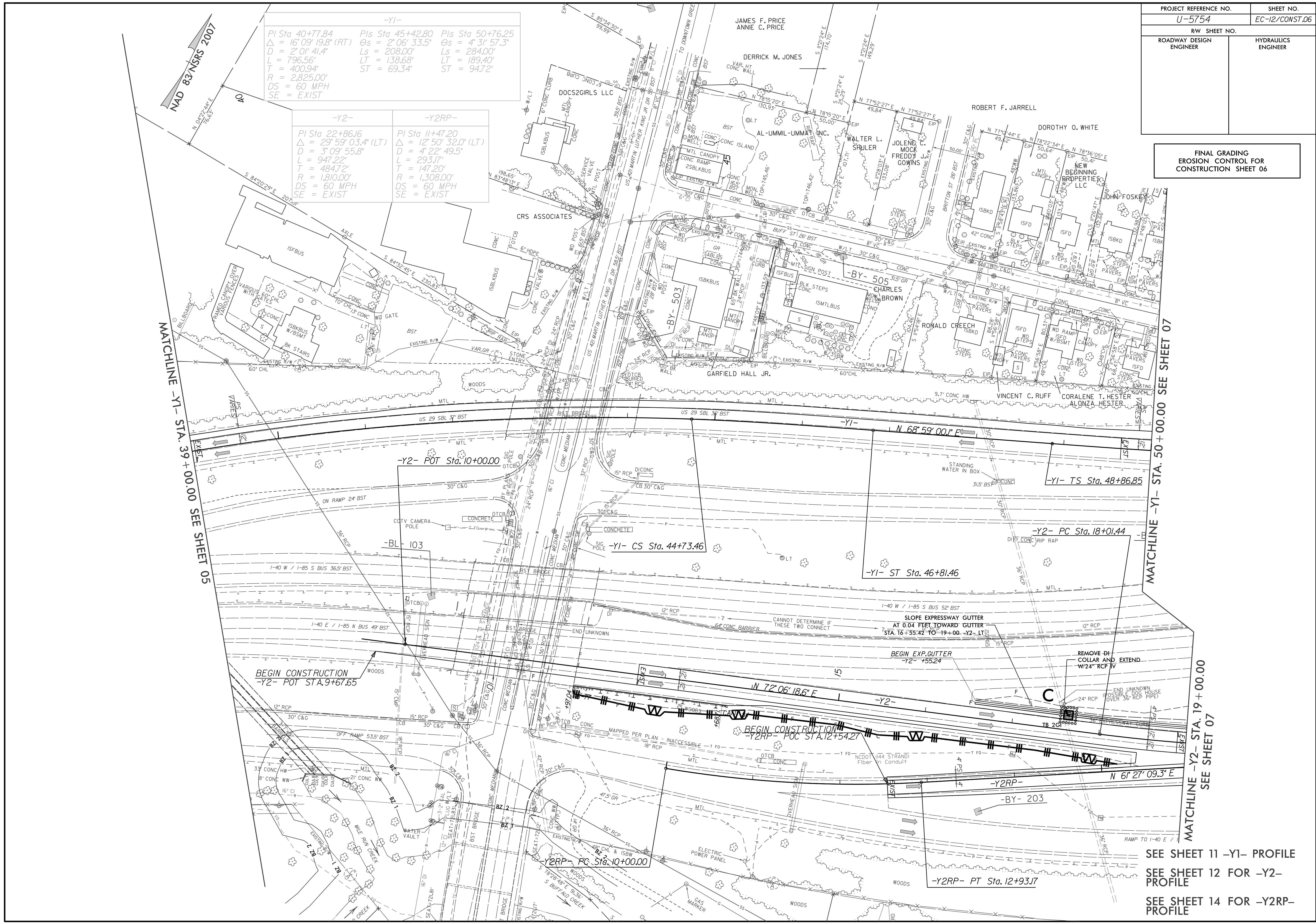
PROJECT REFERENCE NO.		SHEET NO.	
U-5754		EC-12/CONST.06	
RW SHEET NO.			
ROADWAY DESIGN ENGINEER		HYDRAULICS ENGINEER	

FINAL GRADING  
EROSION CONTROL FOR  
CONSTRUCTION SHEET 06

-Y1-

PI Sta 40+77.84	PIs Sta 45+42.80	PIs Sta 50+76.25
$\Delta = 16'09'' 19.8'' (RT)$	$\Theta_s = 2'06'' 33.5''$	$\Theta_s = 4'31'' 57.3''$
$D = 2'01'' 41.4''$	$L_s = 208.00'$	$L_s = 284.00'$
$L = 796.56'$	$LT = 138.68'$	$LT = 189.40'$
$T = 400.94'$	$ST = 69.34'$	$ST = 94.72'$
$R = 2,825.00'$		
$DS = 60 MPH$		
$SE = EXIST$		

-Y2-		-Y2RP-	
PI Sta 22+86.16	PI Sta 11+47.20		
$\Delta = 29'59'' 03.4'' (LT)$	$\Delta = 12'50'' 32.0'' (LT)$		
$D = 3'09'' 55.8''$	$D = 4'22'' 49.5''$		
$L = 947.22'$	$L = 293.17'$		
$T = 484.72'$	$T = 147.20'$		
$R = 1,810.00'$	$R = 1,308.00'$		
$DS = 60 MPH$	$DS = 60 MPH$		
$SE = EXIST$	$SE = EXIST$		



MATCHLINE -Y1- STA. 39+00.00 SEE SHEET 05

MATCHLINE -Y1- STA. 50+00.00 SEE SHEET 07

MATCHLINE -Y2- STA. 19+00.00 SEE SHEET 07

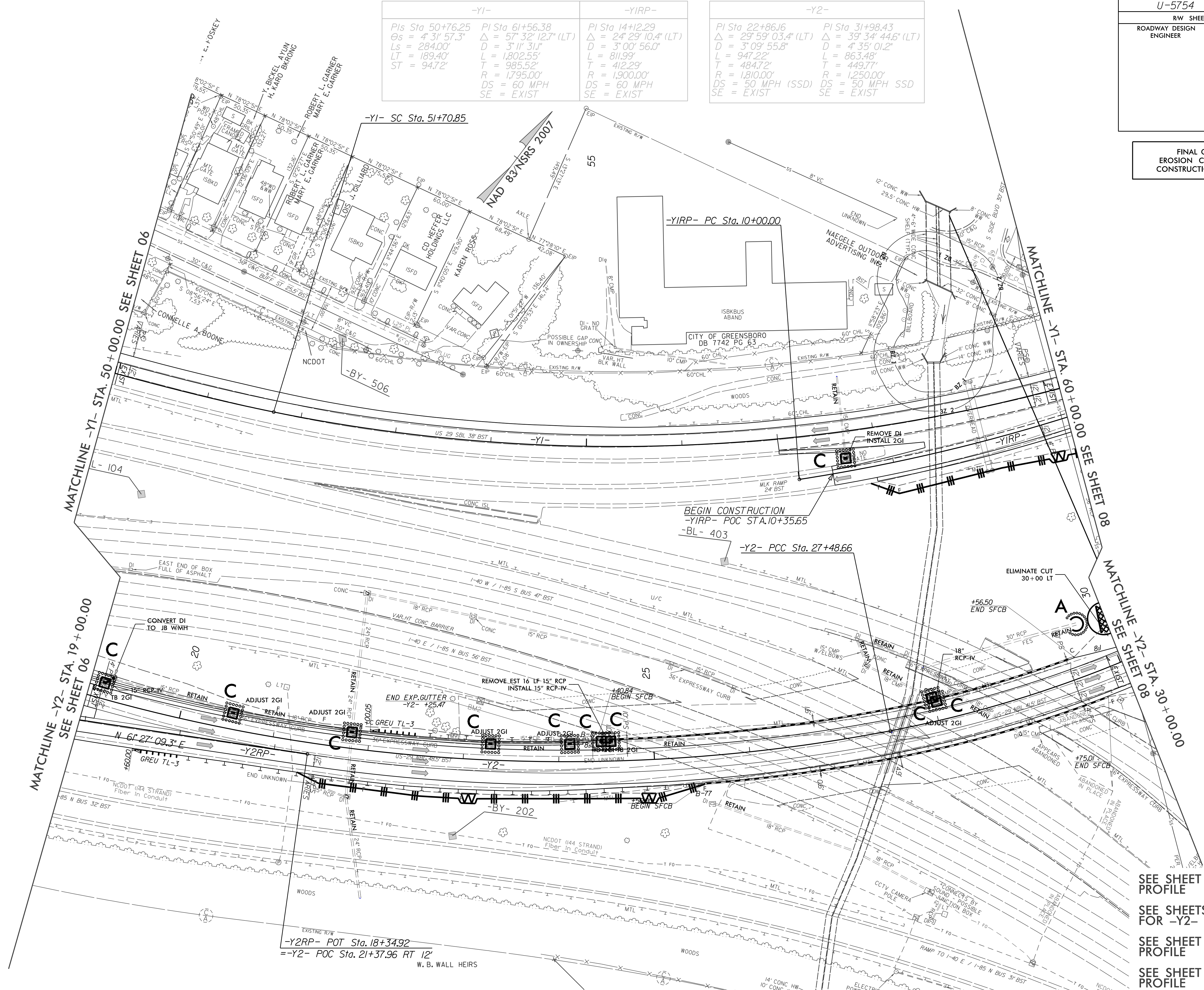
SEE SHEET 11 -Y1- PROFILE  
SEE SHEET 12 FOR -Y2- PROFILE  
SEE SHEET 14 FOR -Y2RP- PROFILE



PROJECT REFERENCE NO.	SHEET NO.
U-5754	EC-13/CONST.07
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

FINAL GRADING  
EROSION CONTROL FOR  
CONSTRUCTION SHEET 07

-Y1-		-Y1RP-		-Y2-	
PI Sta 50+76.25	PI Sta 61+56.38	PI Sta 14+12.29	PI Sta 22+86.16	PI Sta 31+98.43	
$\theta_s = 4^\circ 31' 57.3"$	$\Delta = 57^\circ 32' 12.7"$ (LT)	$\Delta = 24^\circ 29' 10.4"$ (LT)	$\Delta = 29^\circ 59' 03.4"$ (LT)	$\Delta = 39^\circ 34' 44.6"$ (LT)	
$L_s = 284.00'$	$D = 3^\circ 11' 31"$	$D = 3^\circ 00' 56.0"$	$D = 3^\circ 09' 55.8"$	$D = 4^\circ 35' 01.2"$	
$LT = 189.40'$	$L = 1,802.55'$	$L = 811.99'$	$L = 947.22'$	$L = 863.48'$	
$ST = 94.72'$	$T = 985.52'$	$T = 412.29'$	$T = 484.72'$	$T = 449.77'$	
	$R = 1,795.00'$	$R = 1,900.00'$	$R = 1,810.00'$	$R = 1,250.00'$	
	$DS = 60$ MPH	$DS = 60$ MPH	$DS = 50$ MPH (SSD)	$DS = 50$ MPH SSD	
	$SE = EXIST$	$SE = EXIST$	$SE = EXIST$	$SE = EXIST$	



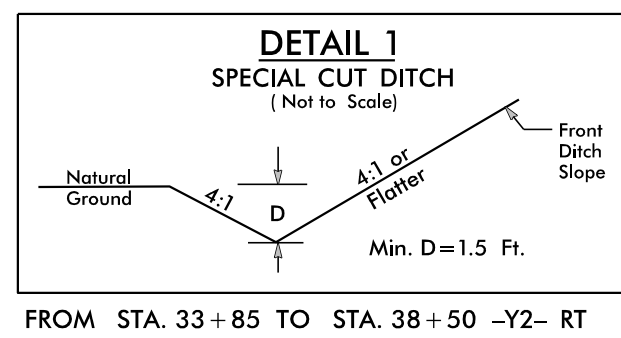
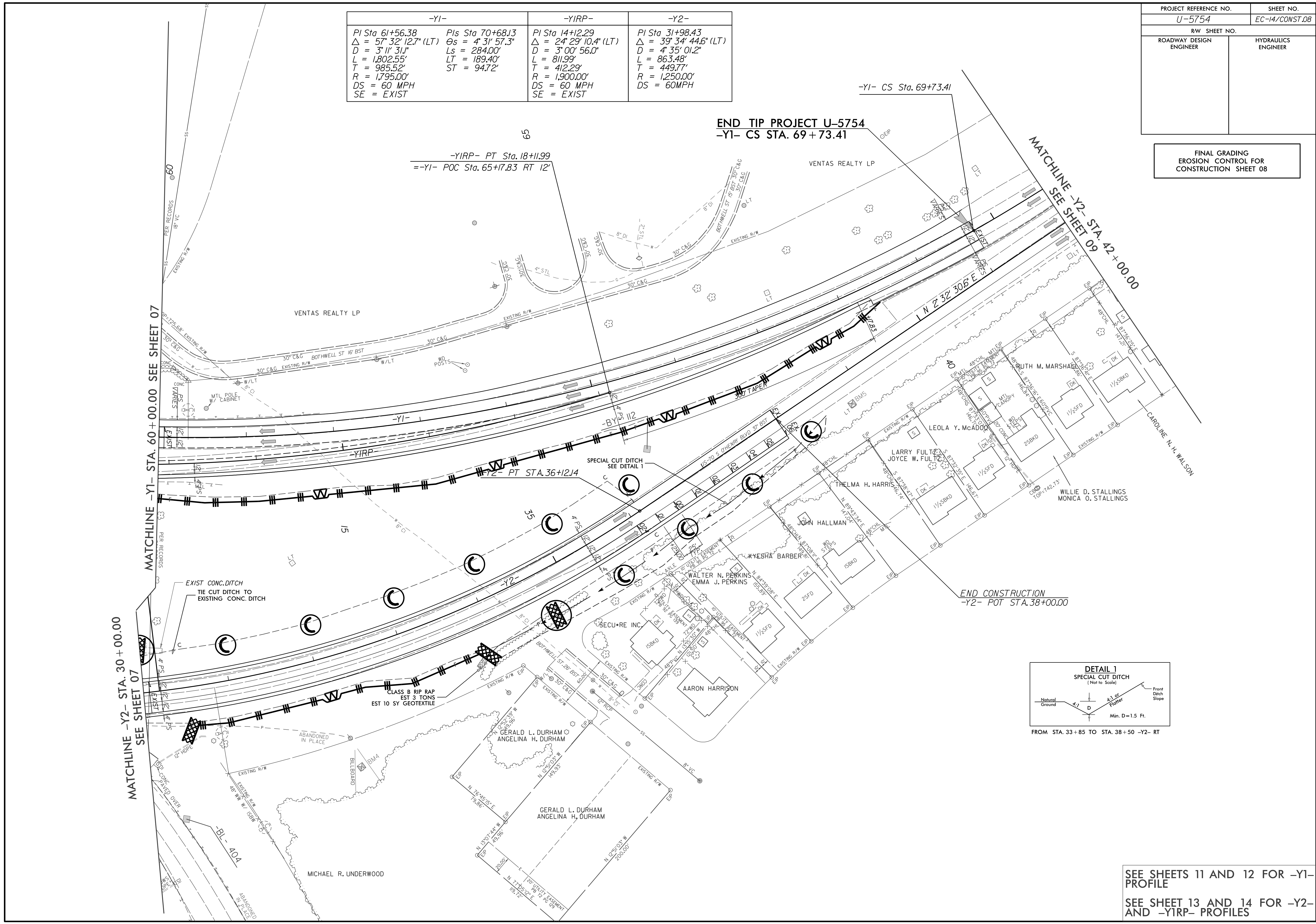
SEE SHEET 12 FOR -Y1- PROFILE  
SEE SHEETS 12 AND 13 FOR -Y2- PROFILE  
SEE SHEET 14 FOR -Y1RP- PROFILE  
SEE SHEET 14 FOR -Y2RP- PROFILE



PROJECT REFERENCE NO.	SHEET NO.
U-5754	EC-14/CONST.08
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

FINAL GRADING  
EROSION CONTROL FOR  
CONSTRUCTION SHEET 08

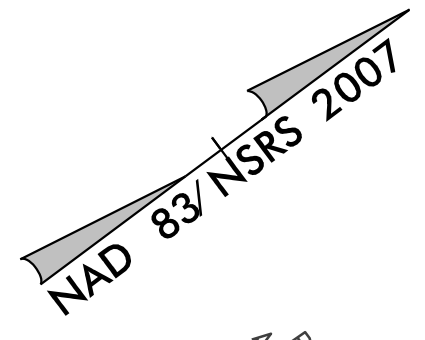
-Y1-		-YIRP-	-Y2-
PI Sta 61+56.38	PIs Sta 70+68.13	PI Sta 14+12.29	PI Sta 31+98.43
$\Delta = 57^{\circ} 32' 12.7" (LT)$	$\Theta s = 4^{\circ} 31' 57.3"$	$\Delta = 24^{\circ} 29' 10.4" (LT)$	$\Delta = 39^{\circ} 34' 44.6" (LT)$
D = 3' 11' 31.1"	Ls = 284.00'	D = 3' 00' 56.0"	D = 4' 35' 01.2"
L = 1,802.55'	LT = 189.40'	L = 811.99'	L = 863.48'
T = 985.52'	ST = 94.72'	T = 412.29'	T = 449.77'
R = 1,795.00'		R = 1,900.00'	R = 1,250.00'
DS = 60 MPH		DS = 60 MPH	DS = 60 MPH
SE = EXIST		SE = EXIST	SE = EXIST



SEE SHEETS 11 AND 12 FOR -Y1-  
PROFILE  
SEE SHEET 13 AND 14 FOR -Y2-  
AND -YIRP- PROFILES

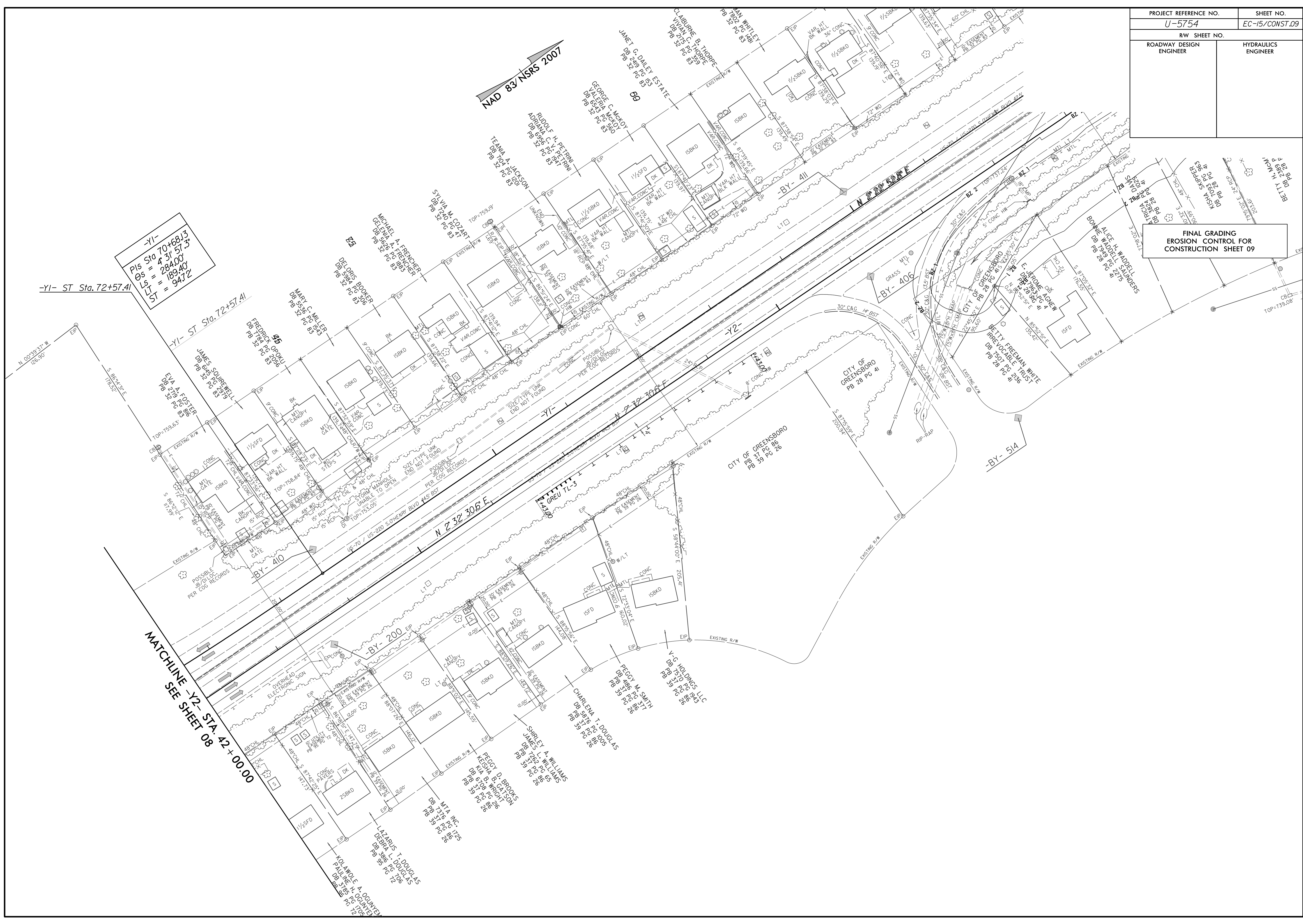


PROJECT REFERENCE NO. <i>U-5754</i>		SHEET NO. <i>EC-15/CONST.09</i>	
RW SHEET NO.			
ROADWAY DESIGN ENGINEER		HYDRAULICS ENGINEER	



-Y1-  
Sta 70+68.13  
Pis = 431.57.3  
Os = 284.00  
Ls = 189.40  
LT = 94.72

FINAL GRADING  
EROSION CONTROL FOR  
CONSTRUCTION SHEET 09



-Y1- ST Sta. 72+57.41

-Y1- ST Sta. 72+57.41

MATCHLINE -Y2- STA. 42+00.00  
SEE SHEET 08

N 0° 39' 37.71\"/>

S 86° 44' 21\"/>

TOP-7159.83

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