

**TIP PROJECT: U-3313**

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

**GUILFORD COUNTY**

**LOCATION: SR 1129 (GROOMETOWN ROAD) FROM SR 1383 (WILEY DAVIS ROAD) TO SR 1479 (WAYNE ROAD)**

**TYPE OF WORK: WIDENING, GRADING, DRAINAGE, PAVING, SIGNING, AND SIGNALS.**

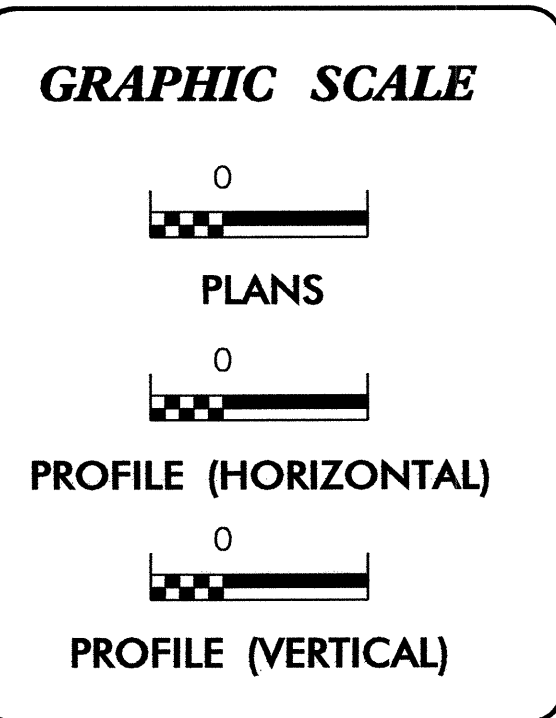
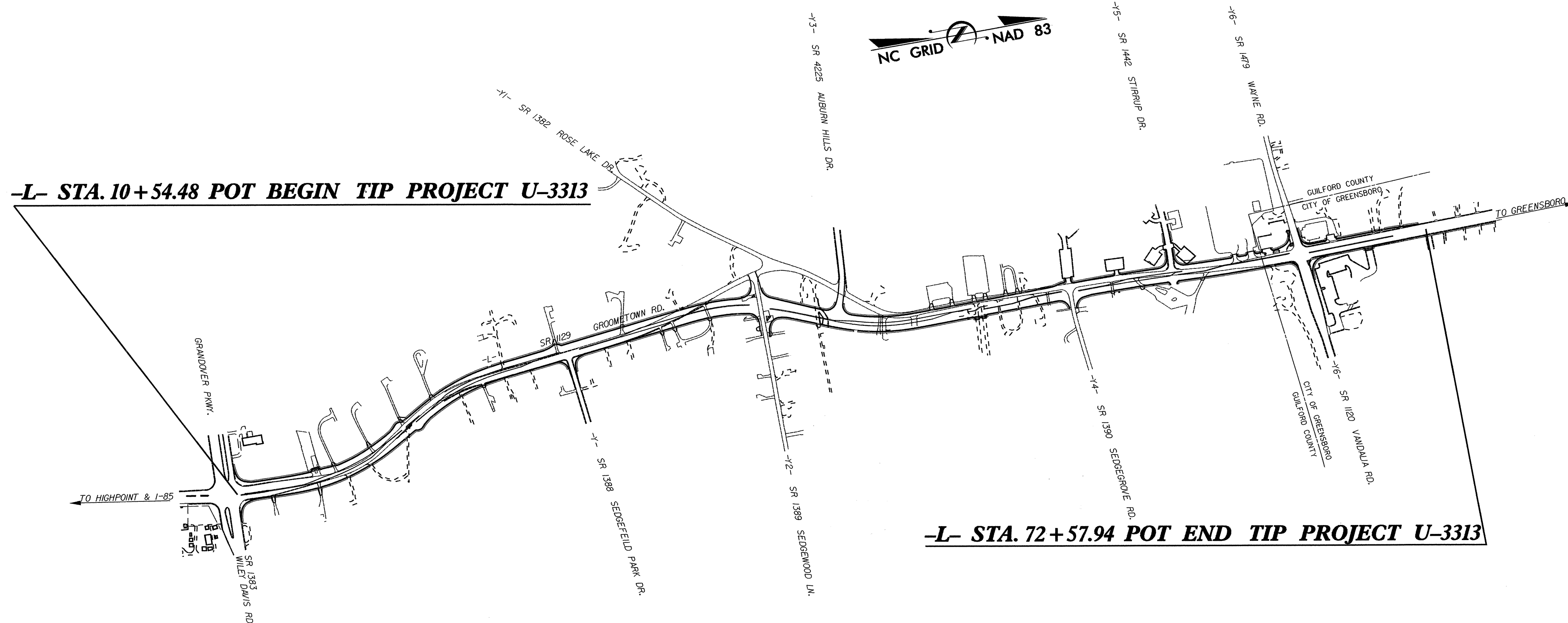
STATE	STATE PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.	U-3313	EC-1	
STATE PROJ. NO.	F.A. PROJ. NO.	DESCRIPTION	

**EROSION AND SEDIMENT CONTROL MEASURES**

Std. #	Description	Symbol
	Streambank Reforestation	
1630.03	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:	
1632.01	Type A	OR
1632.02	Type B	OR
1632.03	Type C	OR

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

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



**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**

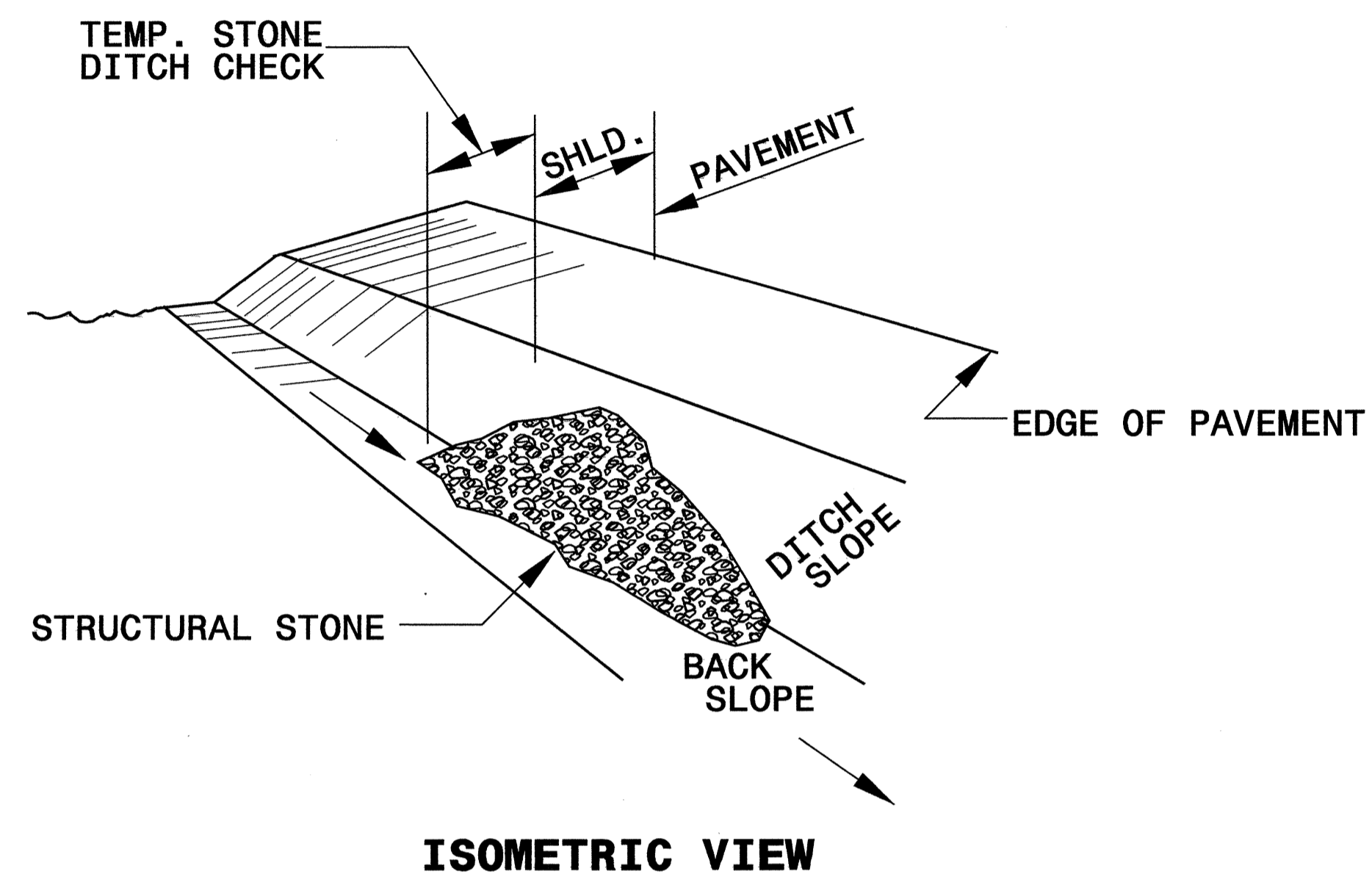
The following roadway **english** standards as appear in "Roadway Standard Drawings"- Roadway Design Unit - N. C. Department of Transportation - Raleigh, N. C., dated July 18, 2006 and the latest revision thereto are applicable to this project and by reference hereby are considered a part of these plans.

1605.01	Temporary Silt Fence	1632.03	Rock Inlet Sediment Trap Type C
1607.01	Gravel Construction Entrance	1633.01	Temporary Rock Silt Check Type A
1622.01	Temporary Berms and Slope Drains	1634.02	Temporary Rock Sediment Dam Type B
1630.02	Silt Basin Type B	1635.01	Rock Pipe Inlet Sediment Trap Type A
1632.02	Rock Inlet Sediment Trap Type B	1635.02	Rock Pipe Inlet Sediment Trap Type B

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PROJECT REFERENCE NO. U-3313	SHEET NO. EC-2
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

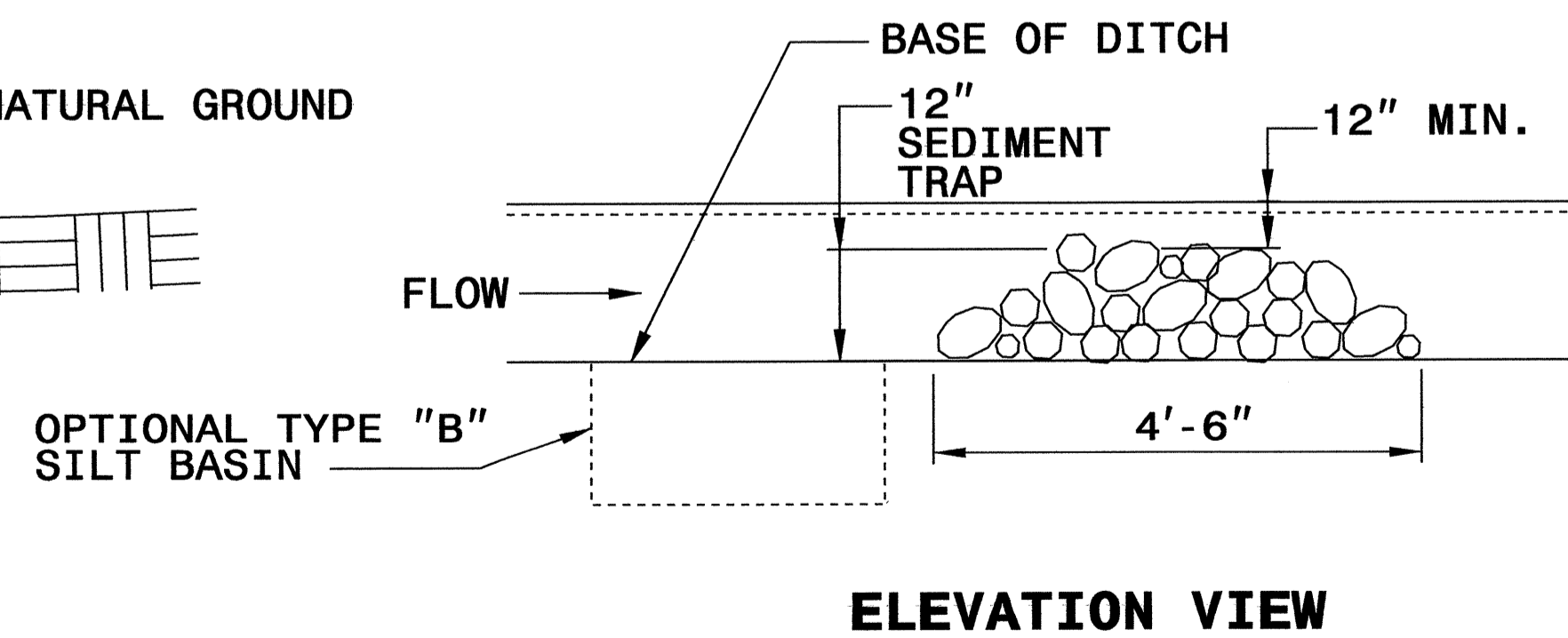
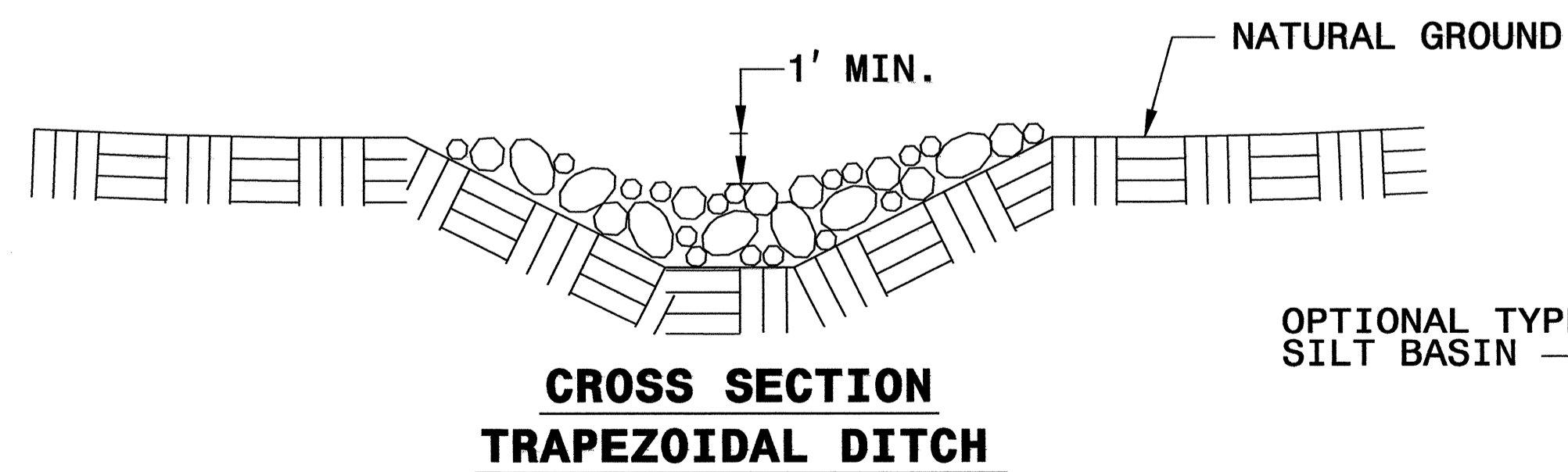
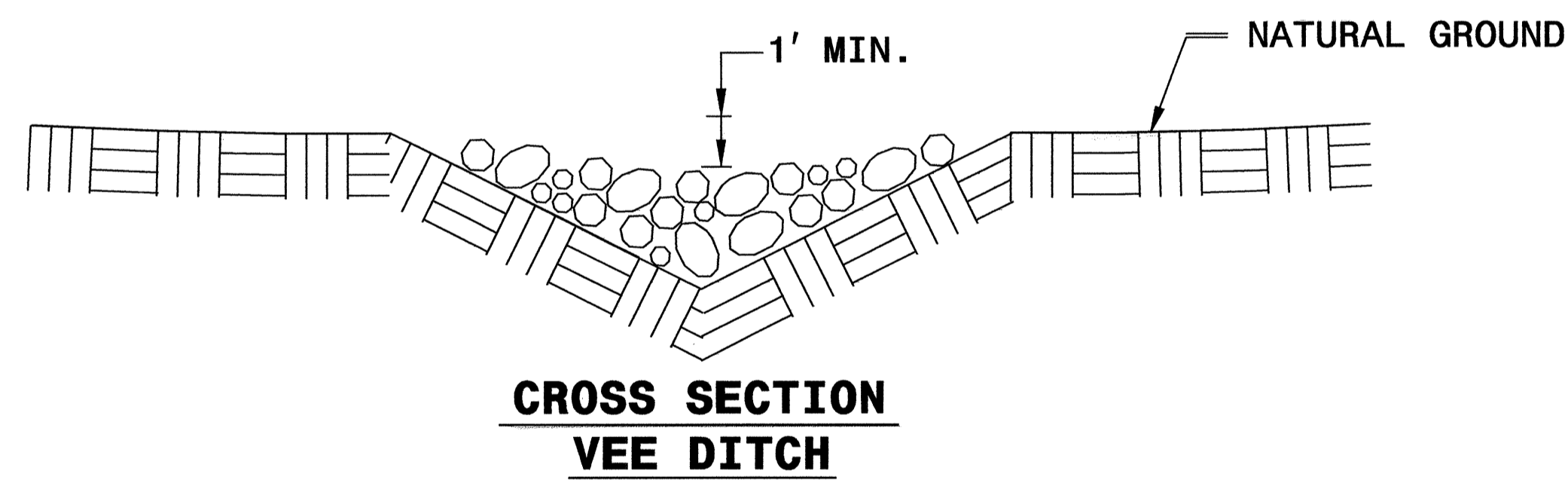
# TEMPORARY ROCK SILT CHECK TYPE 'B' DETAIL



**NOTES:**

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

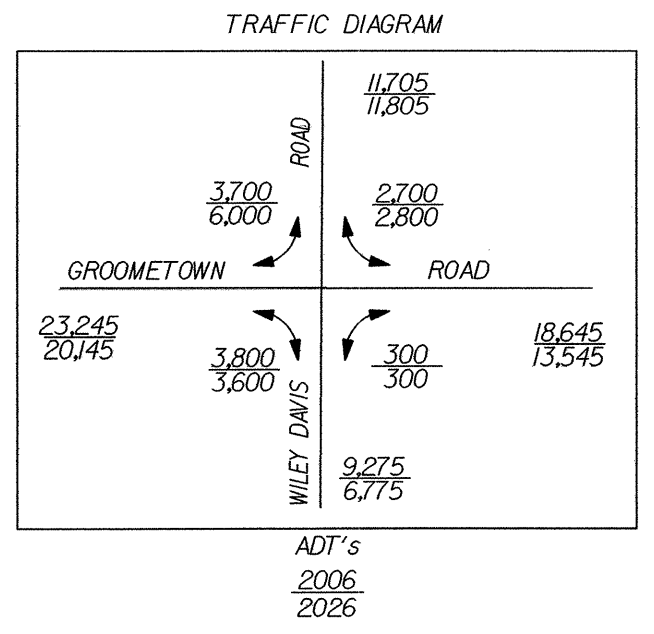
THE ENGINEER MAY DIRECT THE OPTION OF CLASS "A" STONE FOR SITES HAVING LESS THAN ONE (1) ACRE DRAINAGE AREA AND A DITCH GRADE LESS THAN 3%.







PROJECT REFERENCE NO.	SHEET NO.
U-3313	EC-4/CONST.4
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER



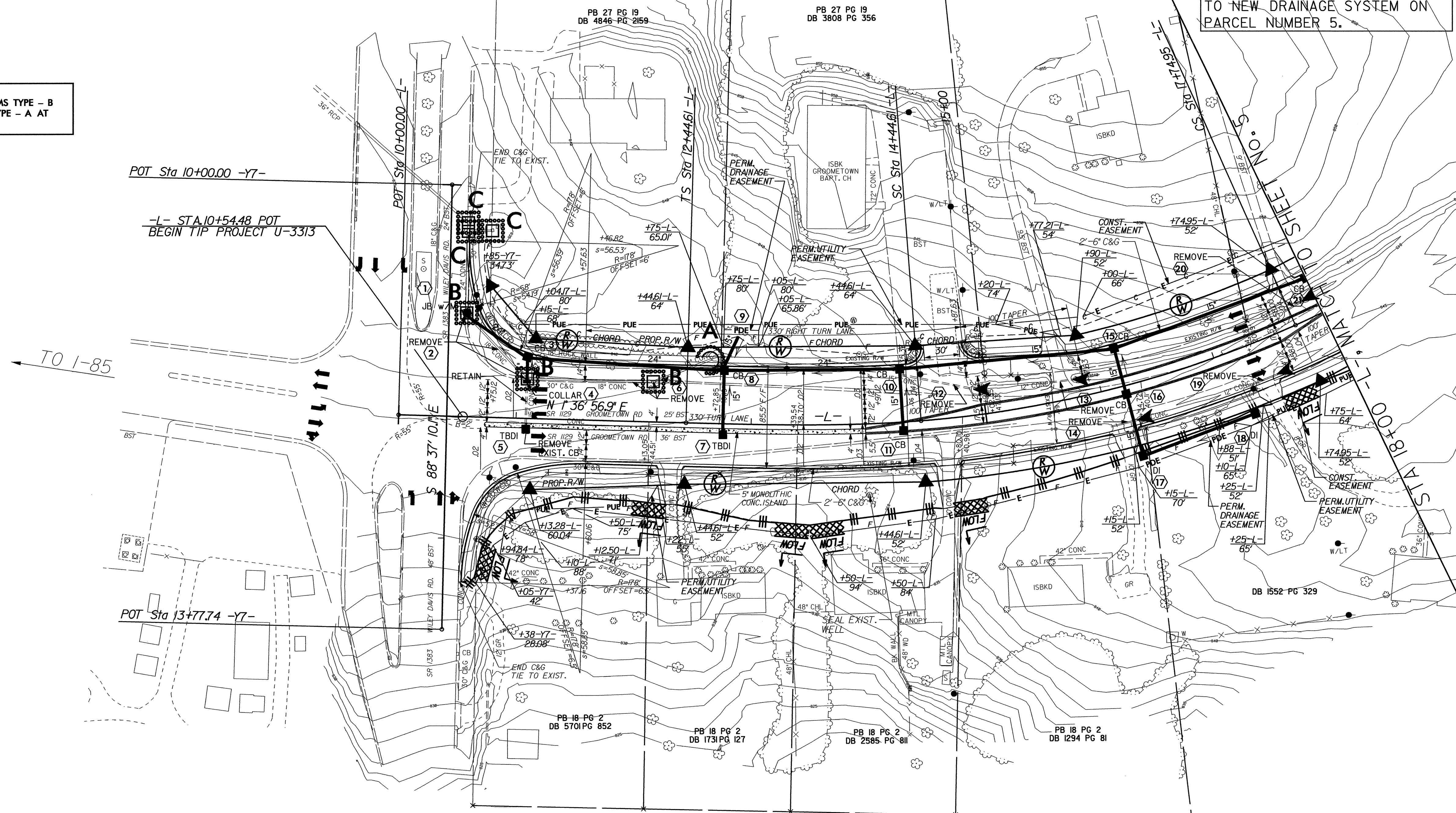
-L-  
 P.I. = 16+17.27  
 $\Delta = 31^{\circ} 49' 15.1''$  (LT)  
 $L_s = 200.00'$   
 $\theta_s = 6^{\circ} 00' 00.0''$   
 $T_s = 372.67'$   
 $L = 330.35'$   
 $R = 954.930'$   
 $U = 133.41'$   
 $V = 66.74'$   
 $e = 0.04$   
 D.S. = 50.00 Mph



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:  
 TIE EXISTING ROOF GUTTER DRAIN  
 TO NEW DRAINAGE SYSTEM ON  
 PARCEL NUMBER 5.



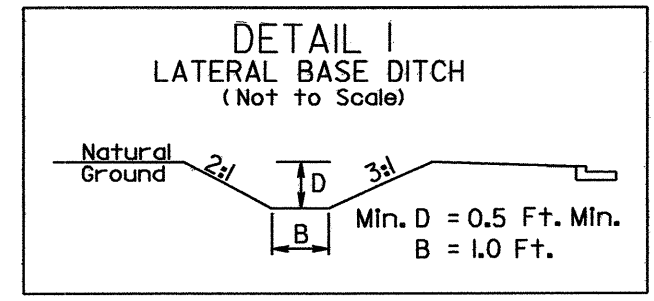
NOTE:  
 USE RSD No. 852.05 FOR PLACEMENT  
 OF CATCH BASINS IN 1'-6" MEDIAN C&G.  
 USE RSD No. 852.06 FOR PLACEMENT  
 OF DROP INLETS IN ISLANDS.

NOTE:  
 ALL DRIVEWAY WIDTHS ARE 20'  
 UNLESS OTHERWISE NOTED.

NOTE:  
 SEE SHEET 9 FOR -L- PROFILE



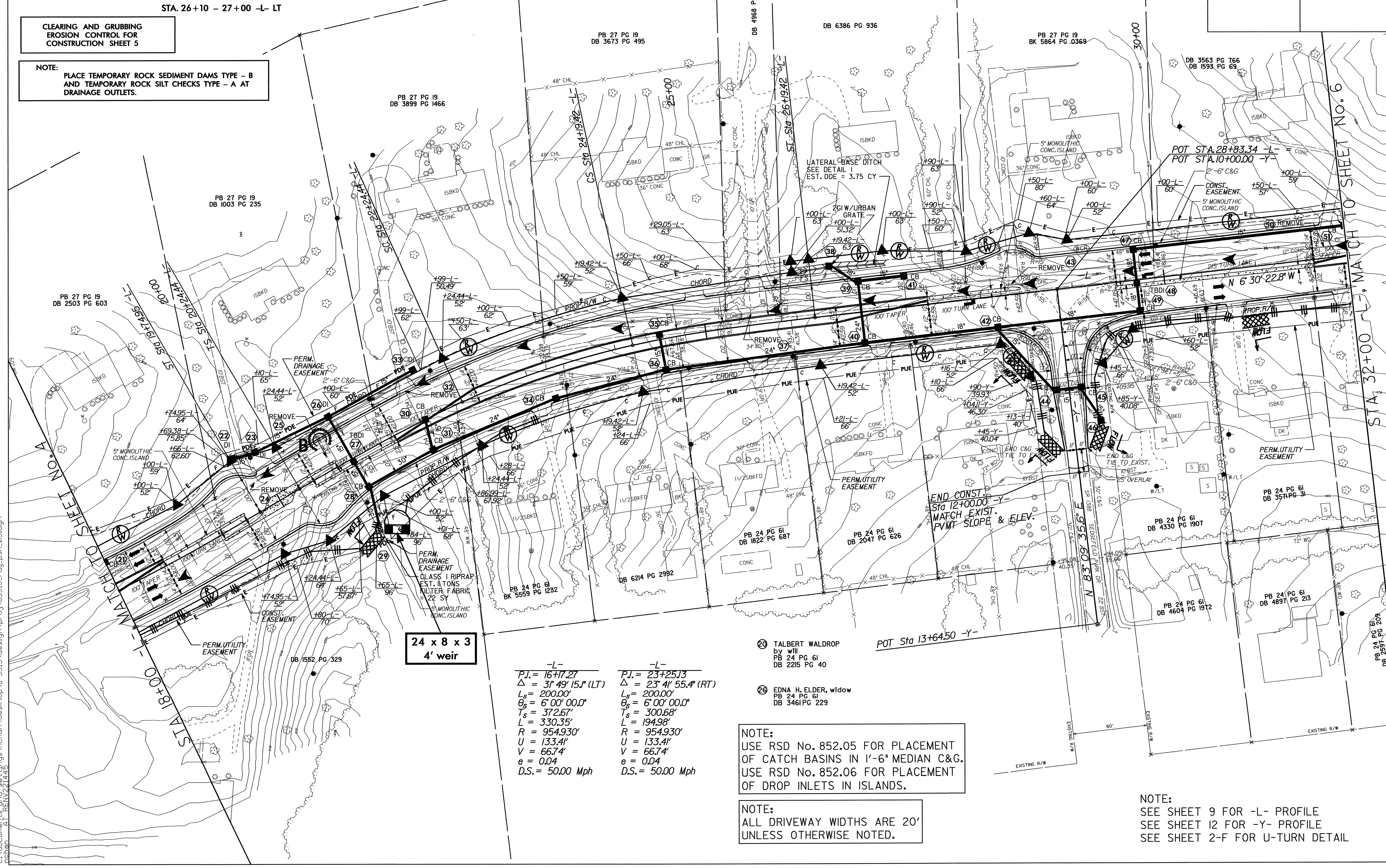
PROJECT REFERENCE NO.	SHEET NO.
U-3313	EC-5/CONST.5
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER



NOTE:  
TIE EXISTING ROOF GUTTER DRAIN  
TO NEW DRAINAGE SYSTEM ON  
PARCEL NUMBERS 17 & 19.

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.



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**24 x 8 x 3  
4' weir**

-L-	-L-
P.I. = 16+17.27	P.I. = 23+25.13
Δ = 31' 49" 15.1" (LT)	Δ = 23' 41" 55.4" (RT)
L <sub>s</sub> = 200.00'	L <sub>s</sub> = 200.00'
θ <sub>s</sub> = 6' 00" 00.0"	θ <sub>s</sub> = 6' 00" 00.0"
T <sub>s</sub> = 372.67'	T <sub>s</sub> = 300.68'
L = 330.35'	L = 194.98'
R = 954.930'	R = 954.930'
U = 133.41'	U = 133.41'
V = 66.74'	V = 66.74'
e = 0.04	e = 0.04
D.S. = 50.00 Mph	D.S. = 50.00 Mph

- 29 TALBERT WALDROP  
BY WILL  
PB 24 PG 61  
DB 2215 PG 40
- 26 EDNA H. ELDER, widow  
PB 24 PG 61  
DB 3461 PG 229

NOTE:  
USE RSD No. 852.05 FOR PLACEMENT  
OF CATCH BASINS IN 1'-6" MEDIAN C&G.  
USE RSD No. 852.06 FOR PLACEMENT  
OF DROP INLETS IN ISLANDS.

NOTE:  
ALL DRIVEWAY WIDTHS ARE 20'  
UNLESS OTHERWISE NOTED.

NOTE:  
SEE SHEET 9 FOR -L- PROFILE  
SEE SHEET 12 FOR -Y- PROFILE  
SEE SHEET 2-F FOR U-TURN DETAIL



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.

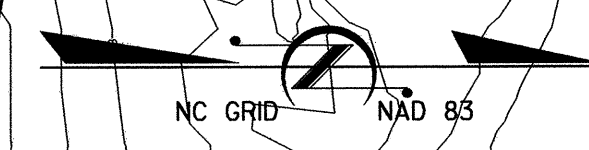
42 x 13 x 3  
5' weir

38 x 13 x 3  
5' weir

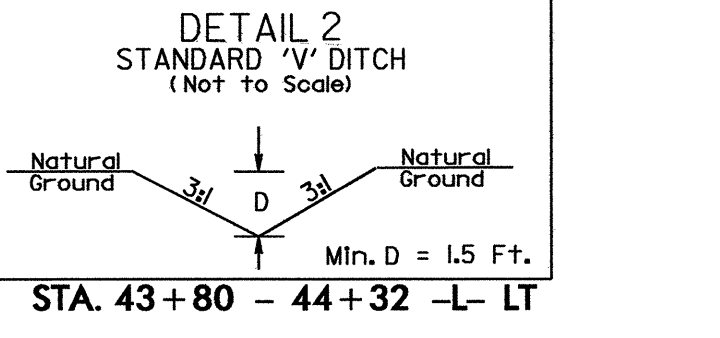
-L-  
P.I. = 37+83.61  
Δ = 28' 12" 12.1' (RT)  
L<sub>s</sub> = 200.00'  
θ<sub>s</sub> = 6' 00" 00.0'  
T<sub>s</sub> = 340.29'  
L<sub>t</sub> = 270.06'  
R = 954.930'  
U = 133.41'  
V = 66.74'  
e = 0.04  
D.S. = 50.00 Mph

-L-  
P.I. = 44+70.38  
Δ = 22' 25" 08.8' (LT)  
L<sub>s</sub> = 200.00'  
θ<sub>s</sub> = 6' 09" 39.0'  
T<sub>s</sub> = 284.62'  
L<sub>t</sub> = 163.90'  
R = 930.000'  
U = 133.41'  
V = 66.74'  
e = 0.04  
D.S. = 50.00 Mph

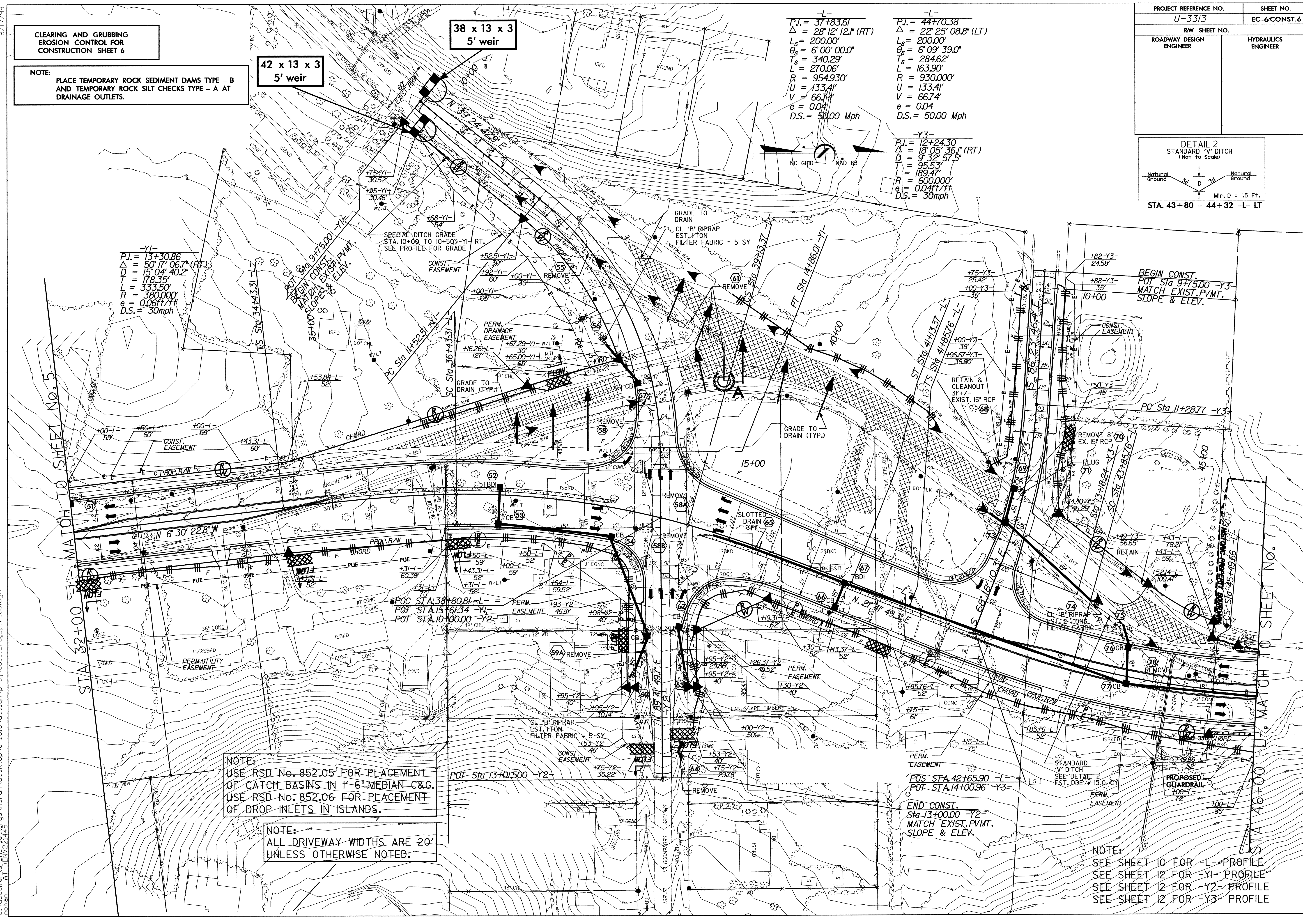
-Y3-  
P.I. = 12+24.30  
Δ = 18' 05" 36.1' (RT)  
D = 9' 32" 57.5'  
L = 95.53'  
L<sub>t</sub> = 189.47'  
R = 600.000'  
e = 0.04 ft/ft  
D.S. = 30mph



PROJECT REFERENCE NO. U-3313	SHEET NO. EC-6/CONST.6
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER



-Y1-  
P.I. = 13+30.86  
Δ = 50' 17" 06.7' (RT)  
D = 15' 04" 40.2'  
L = 178.35'  
T = 333.50'  
R = 380.000'  
e = 0.06 ft/ft  
D.S. = 30mph



NOTE:  
USE RSD No. 852.05 FOR PLACEMENT  
OF CATCH BASINS IN 1'-6" MEDIAN C&G.  
USE RSD No. 852.06 FOR PLACEMENT  
OF DROP INLETS IN ISLANDS.

NOTE:  
ALL DRIVEWAY WIDTHS ARE 20'  
UNLESS OTHERWISE NOTED.

END CONST.  
Sta 13+00.00 -Y2-  
MATCH EXIST. PVMT.  
SLOPE & ELEV.

NOTE:  
SEE SHEET 10 FOR -L- PROFILE  
SEE SHEET 12 FOR -Y1- PROFILE  
SEE SHEET 12 FOR -Y2- PROFILE  
SEE SHEET 12 FOR -Y3- PROFILE

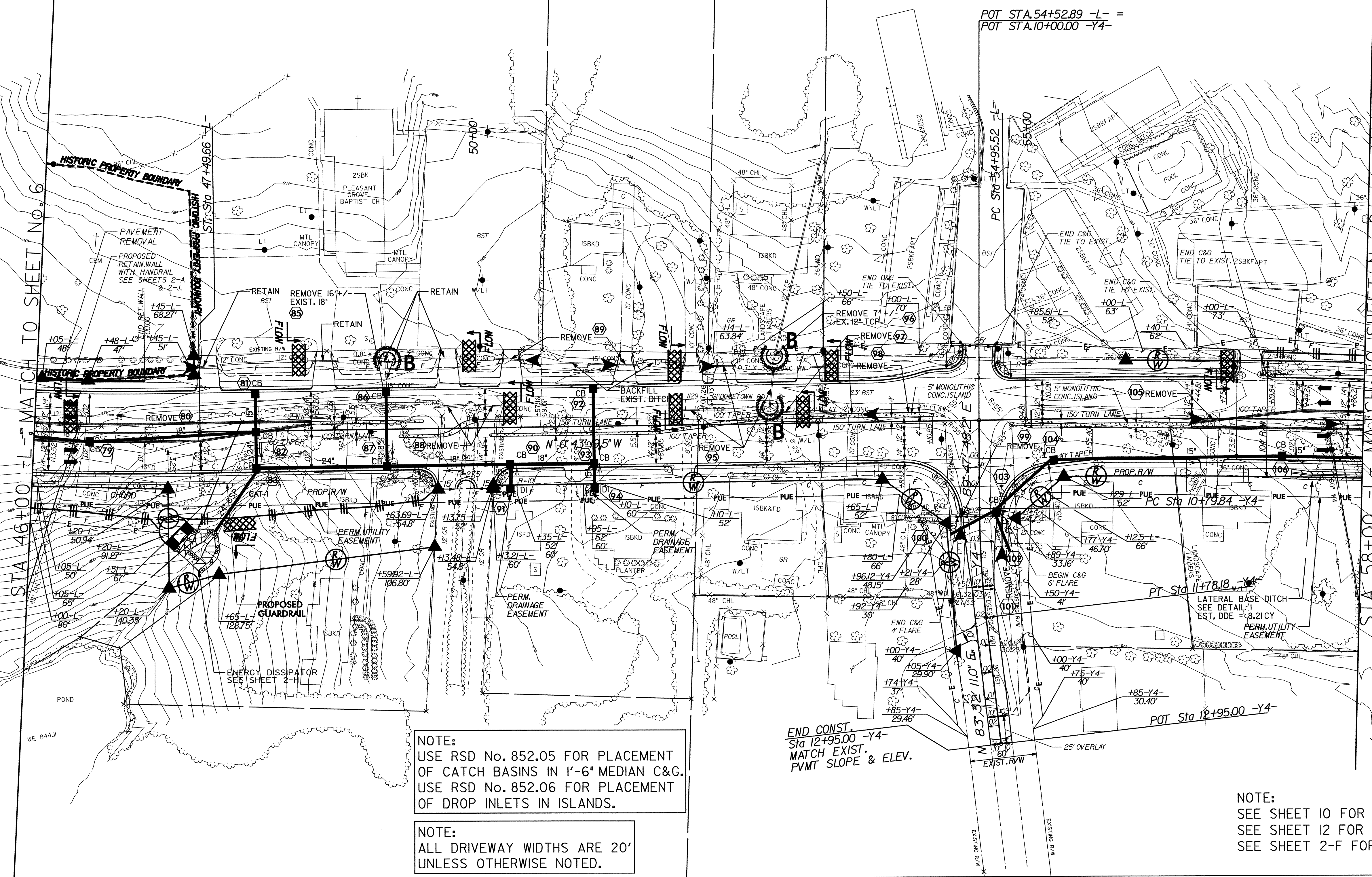
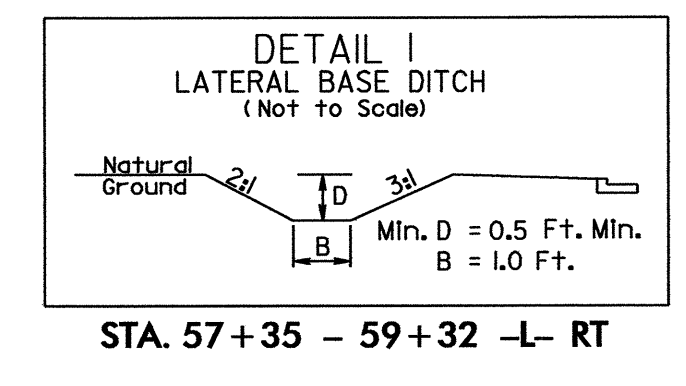


PROJECT REFERENCE NO.		SHEET NO.
U-3313		EC-7/CONST.7
RW SHEET NO.		
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER	

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.

-L-	-L-	-Y4-
P.I. = 44+70.38	P.I. = 57+08.08	P.I. = 11+29.06
$\Delta = 22' 25" 08.8" (LT)$	$\Delta = 3' 02' 38.3" (RT)$	$\Delta = 6' 15' 37.0" (LT)$
$L_s = 200.00'$	$D = 0' 42' 58.3"$	$D = 6' 21' 58.3"$
$\theta_s = 6' 09' 39.0"$	$T = 212.56'$	$T = 49.22'$
$T_s = 284.62'$	$L = 425.02'$	$L = 98.34'$
$L = 163.90'$	$R = 8,000.000'$	$R = 900.000'$
$R = 930.000'$	$e = n.c.$	$e = 0.03ft/ft$
$U = 133.4'$	$D.S. = 50mph$	$D.S. = 30mph$
$V = 66.74'$		
$e = 0.04$		
$D.S. = 50.00 Mph$		



NOTE:  
USE RSD No. 852.05 FOR PLACEMENT  
OF CATCH BASINS IN 1'-6" MEDIAN C&G.  
USE RSD No. 852.06 FOR PLACEMENT  
OF DROP INLETS IN ISLANDS.

NOTE:  
ALL DRIVEWAY WIDTHS ARE 20'  
UNLESS OTHERWISE NOTED.

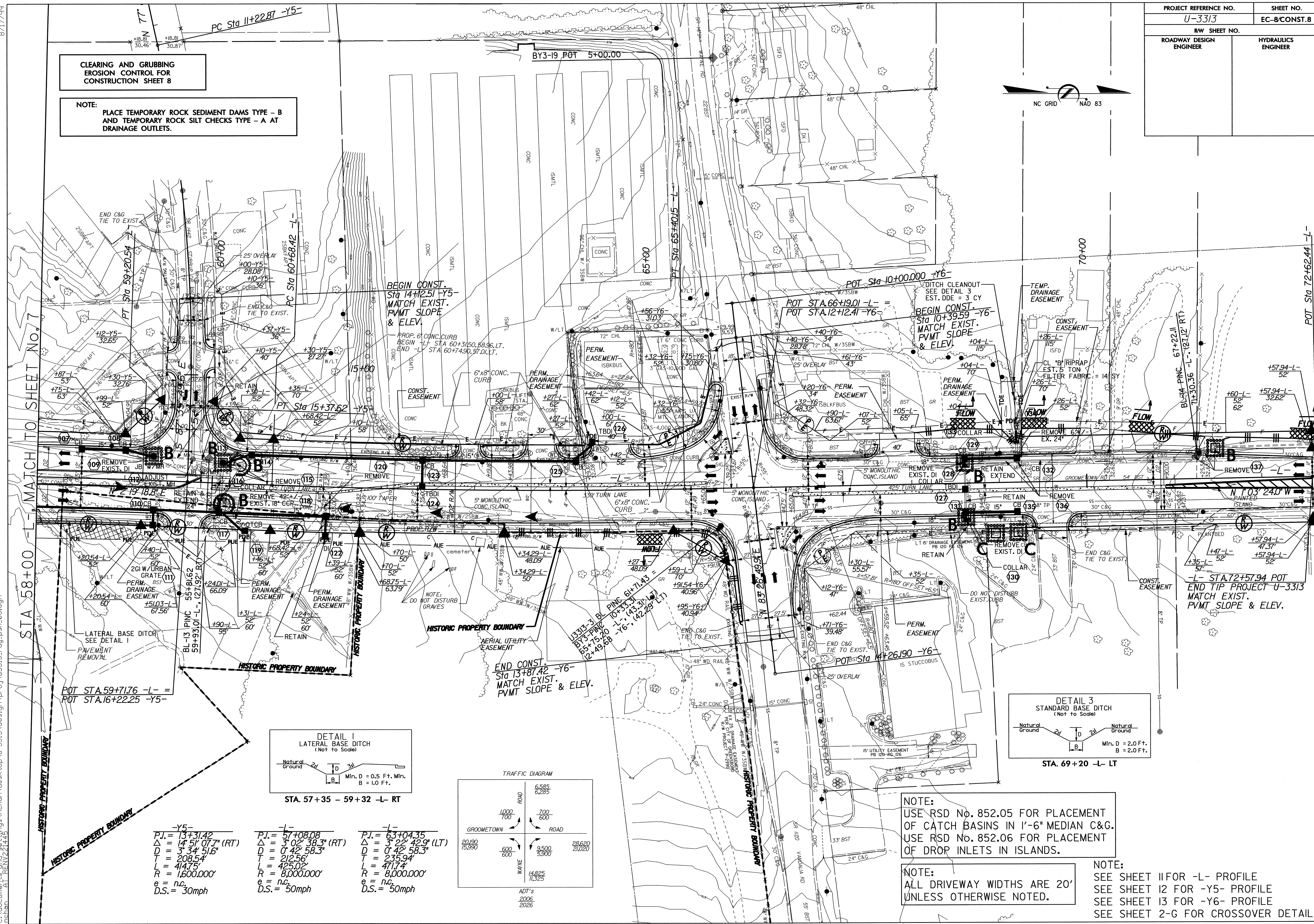
END CONST.  
Sta 12+95.00 -Y4-  
MATCH EXIST.  
PVMT SLOPE & ELEV.

NOTE:  
SEE SHEET 10 FOR -L- PROFILE  
SEE SHEET 12 FOR -Y4- PROFILE  
SEE SHEET 2-F FOR CROSSOVER DETAIL



**CLEARING AND GRUBBING  
EROSION CONTROL FOR  
CONSTRUCTION SHEET 8**

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



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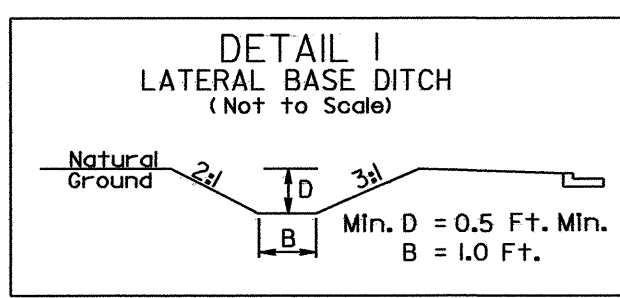
MATCH TO SHEET NO. 7  
STA 58+00 -L-

POT STA. 59+71.76 -L- =  
POT STA. 16+22.25 -Y5-

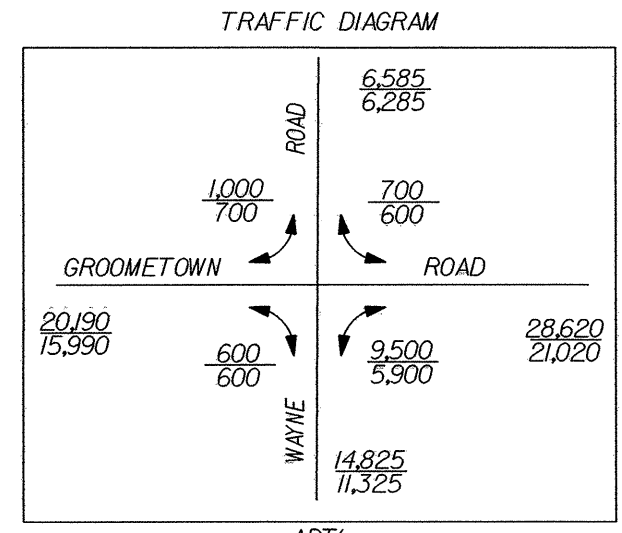
-Y5-  
P.I. = 13+31.42  
Δ = 14' 5" 07.7" (RT)  
D = 3' 34" 51.6"  
T = 208.54'  
L = 414.75'  
R = 1,600.000'  
e = n.c.  
D.S. = 30mph

-L-  
P.I. = 57+08.08  
Δ = 3' 02" 38.3" (RT)  
D = 0' 42" 58.3"  
T = 212.56'  
L = 425.02'  
R = 8,000.000'  
e = n.c.  
D.S. = 50mph

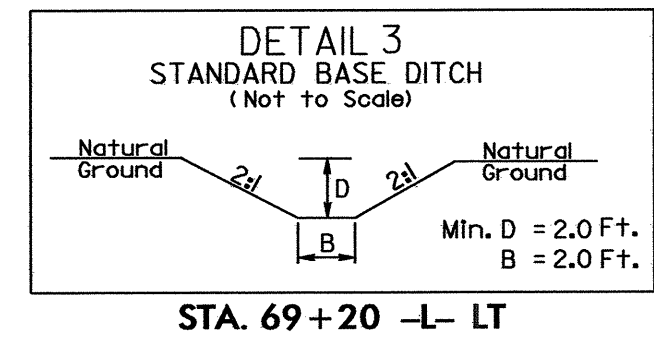
-L-  
P.I. = 63+04.35  
Δ = 3' 22" 42.9" (LT)  
D = 0' 42" 58.3"  
T = 235.94'  
L = 471.74'  
R = 8,000.000'  
e = n.c.  
D.S. = 50mph



STA. 57+35 - 59+32 -L- RT



**END CONST.**  
Sta 13+87.42 -Y6-  
MATCH EXIST.  
P.V.M.T. SLOPE & ELEV.



STA. 69+20 -L- LT

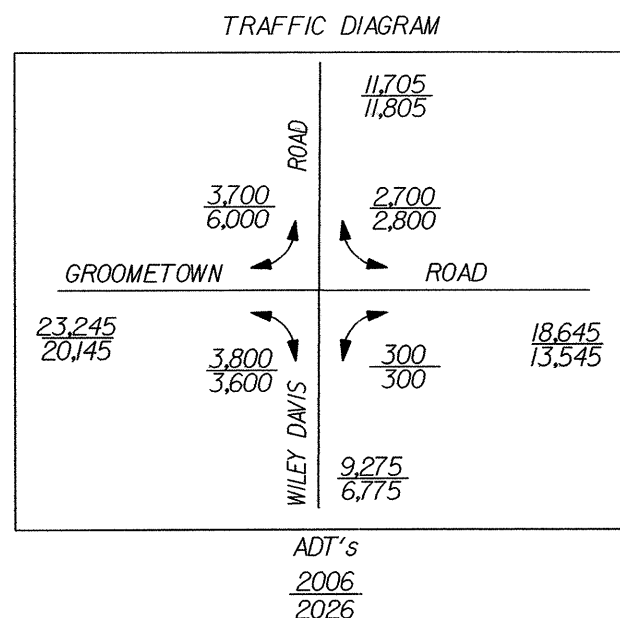
**NOTE:**  
USE RSD No. 852.05 FOR PLACEMENT  
OF CATCH BASINS IN 1'-6" MEDIAN C&G.  
USE RSD No. 852.06 FOR PLACEMENT  
OF DROP INLETS IN ISLANDS.

**NOTE:**  
ALL DRIVEWAY WIDTHS ARE 20'  
UNLESS OTHERWISE NOTED.

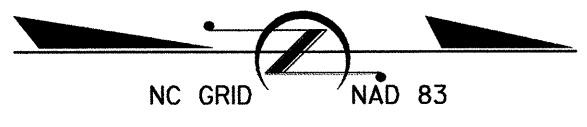
**NOTE:**  
SEE SHEET 11 FOR -L- PROFILE  
SEE SHEET 12 FOR -Y5- PROFILE  
SEE SHEET 13 FOR -Y6- PROFILE  
SEE SHEET 2-G FOR CROSSOVER DETAIL



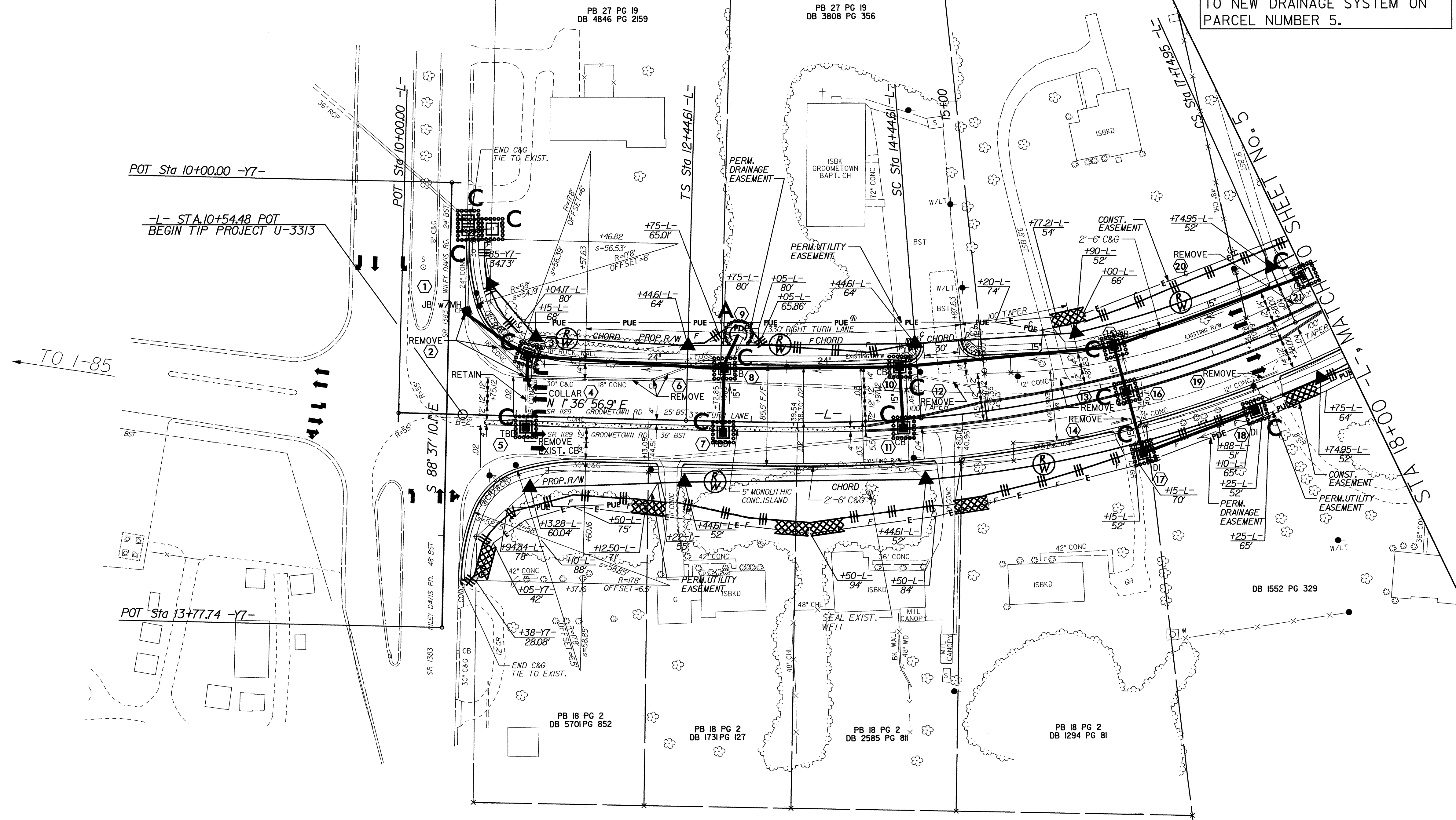
PROJECT REFERENCE NO.	SHEET NO.
U-3313	EC-9/CONST.4
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER



-L-  
 $PJ_1 = 16717.27$   
 $\Delta = 31' 49" 15.1" (LT)$   
 $L_s = 200.00'$   
 $\theta_s = 6' 00" 00.0"$   
 $T_s = 372.67'$   
 $L = 330.35'$   
 $R = 954.930'$   
 $U = 133.41'$   
 $V = 66.74'$   
 $e = 0.04$   
 $D.S. = 50.00 \text{ Mph}$



NOTE:  
TIE EXISTING ROOF GUTTER DRAIN  
TO NEW DRAINAGE SYSTEM ON  
PARCEL NUMBER 5.

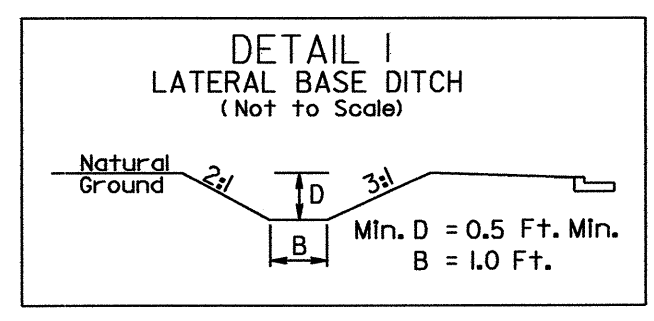


NOTE:  
USE RSD No. 852.05 FOR PLACEMENT  
OF CATCH BASINS IN 1'-6" MEDIAN C&G.  
USE RSD No. 852.06 FOR PLACEMENT  
OF DROP INLETS IN ISLANDS.

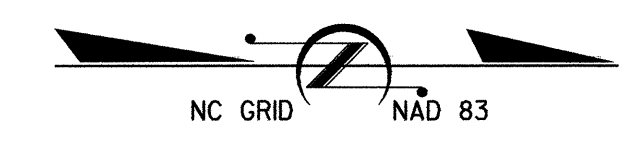
NOTE:  
ALL DRIVEWAY WIDTHS ARE 20'  
UNLESS OTHERWISE NOTED.

NOTE:  
SEE SHEET 9 FOR -L- PROFILE

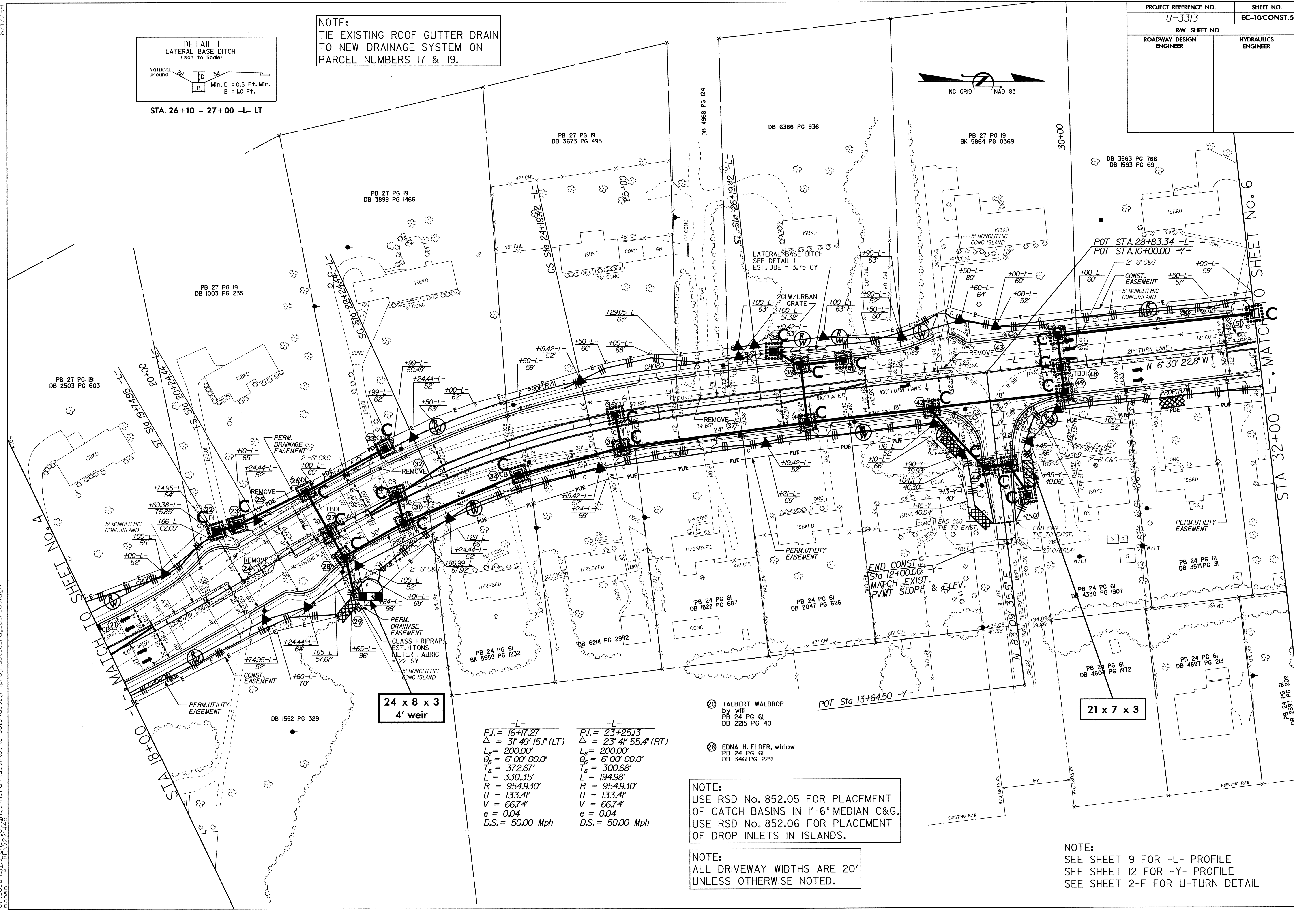




NOTE:  
TIE EXISTING ROOF GUTTER DRAIN  
TO NEW DRAINAGE SYSTEM ON  
PARCEL NUMBERS 17 & 19.



STA. 26+10 - 27+00 -L- LT



PB 27 PG 19  
DB 2503 PG 603

PB 27 PG 19  
DB 1003 PG 235

PB 27 PG 19  
DB 3899 PG 1466

PB 27 PG 19  
DB 3673 PG 495

DB 6386 PG 936

PB 27 PG 19  
BK 5864 PG 0369

DB 3563 PG 766  
DB 1593 PG 69

PERM. DRAINAGE  
EASEMENT

24 x 8 x 3  
4' weir

-L-	-L-
P.I. = 16+17.27	P.I. = 23+25.13
$\Delta = 31' 49" 15.1" (LT)$	$\Delta = 23' 41" 55.4" (RT)$
$L_s = 200.00'$	$L_s = 200.00'$
$\theta_s = 6' 00" 00.0"$	$\theta_s = 6' 00" 00.0"$
$T_s = 372.67'$	$T_s = 300.68'$
$L = 330.35'$	$L = 194.98'$
$R = 954.930'$	$R = 954.930'$
$U = 133.41'$	$U = 133.41'$
$V = 66.74'$	$V = 66.74'$
$e = 0.04$	$e = 0.04$
D.S. = 50.00 Mph	D.S. = 50.00 Mph

20 TALBERT WALDROP  
by will  
PB 24 PG 61  
DB 2215 PG 40

25 EDNA H. ELDER, widow  
PB 24 PG 61  
DB 3461 PG 229

NOTE:  
USE RSD No. 852.05 FOR PLACEMENT  
OF CATCH BASINS IN 1'-6" MEDIAN C&G.  
USE RSD No. 852.06 FOR PLACEMENT  
OF DROP INLETS IN ISLANDS.

NOTE:  
ALL DRIVEWAY WIDTHS ARE 20'  
UNLESS OTHERWISE NOTED.

21 x 7 x 3

NOTE:  
SEE SHEET 9 FOR -L- PROFILE  
SEE SHEET 12 FOR -Y- PROFILE  
SEE SHEET 2-F FOR U-TURN DETAIL

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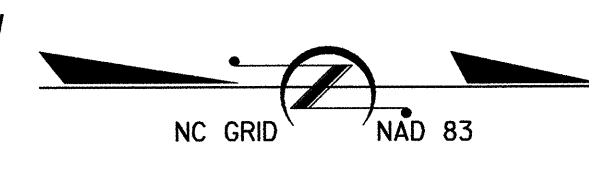


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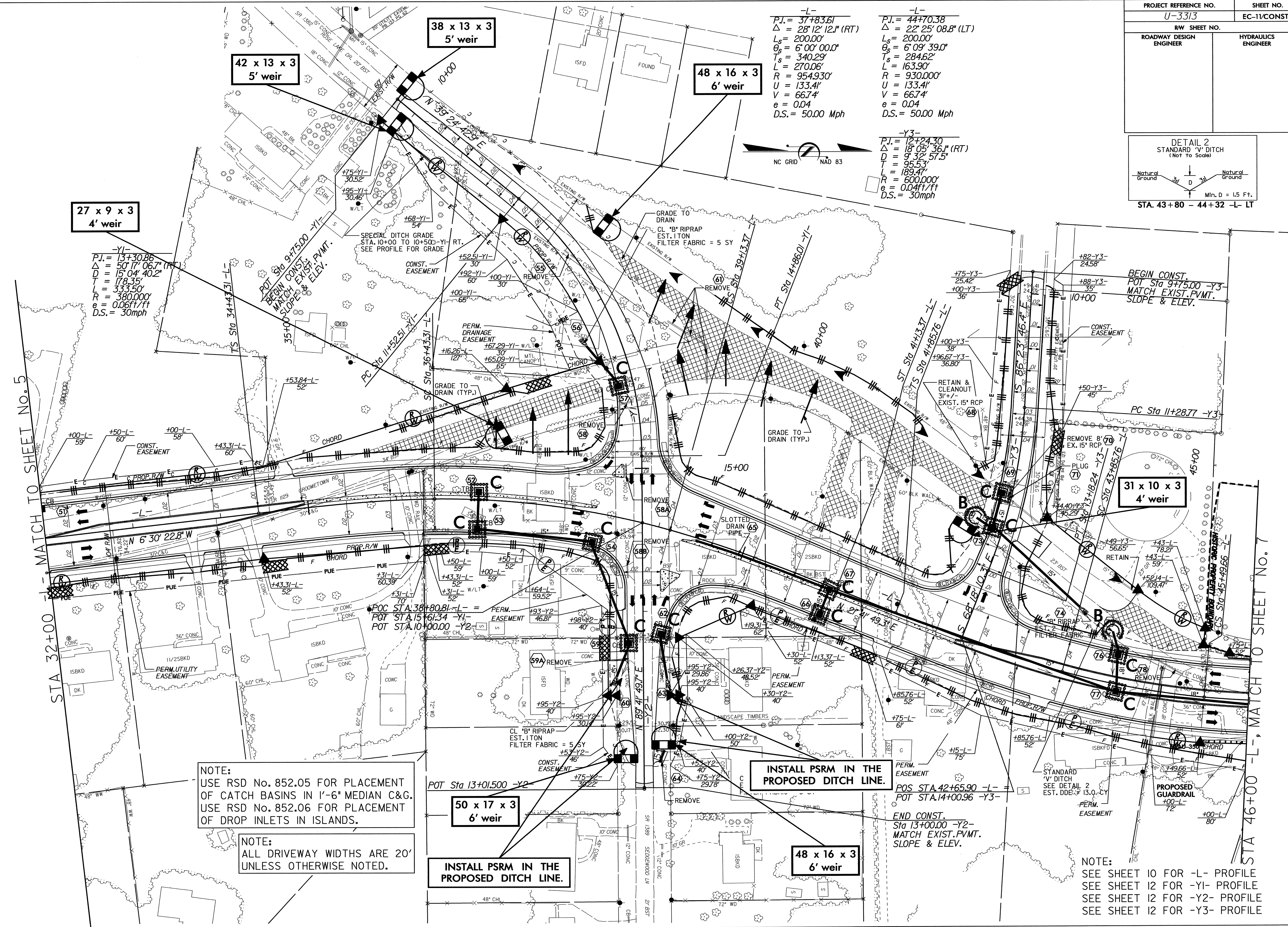
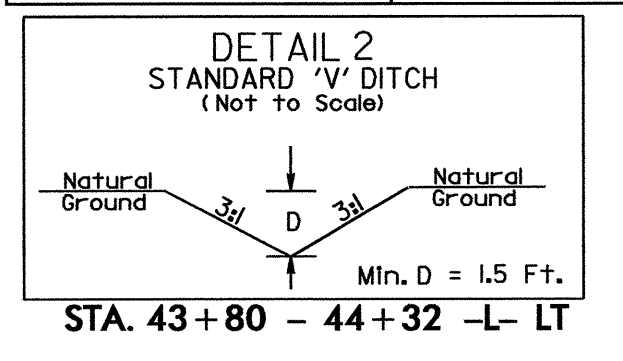
PROJECT REFERENCE NO. U-3313	SHEET NO. EC-11/CONST.6
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

**-L-**  
 P.I. = 37+83.61  
 $\Delta = 28' 12" 12.1" (RT)$   
 $L_s = 200.00'$   
 $\theta_s = 6' 00" 00.0"$   
 $T_s = 340.29'$   
 $L = 270.06'$   
 $R = 954.930'$   
 $U = 133.41'$   
 $V = 66.74'$   
 $e = 0.04$   
 D.S. = 50.00 Mph

**-L-**  
 P.I. = 44+70.38  
 $\Delta = 22' 25" 08.8" (LT)$   
 $L_s = 200.00'$   
 $\theta_s = 6' 09" 39.0"$   
 $T_s = 284.62'$   
 $L = 163.90'$   
 $R = 930.000'$   
 $U = 133.41'$   
 $V = 66.74'$   
 $e = 0.04$   
 D.S. = 50.00 Mph



**-Y3-**  
 P.I. = 12+24.30  
 $\Delta = 18' 05" 36.1" (RT)$   
 $D = 9' 32" 57.5"$   
 $T = 95.53'$   
 $L = 189.47'$   
 $R = 600.000'$   
 $e = 0.04 ft/ft$   
 D.S. = 30mph



MATCH TO SHEET No. 5

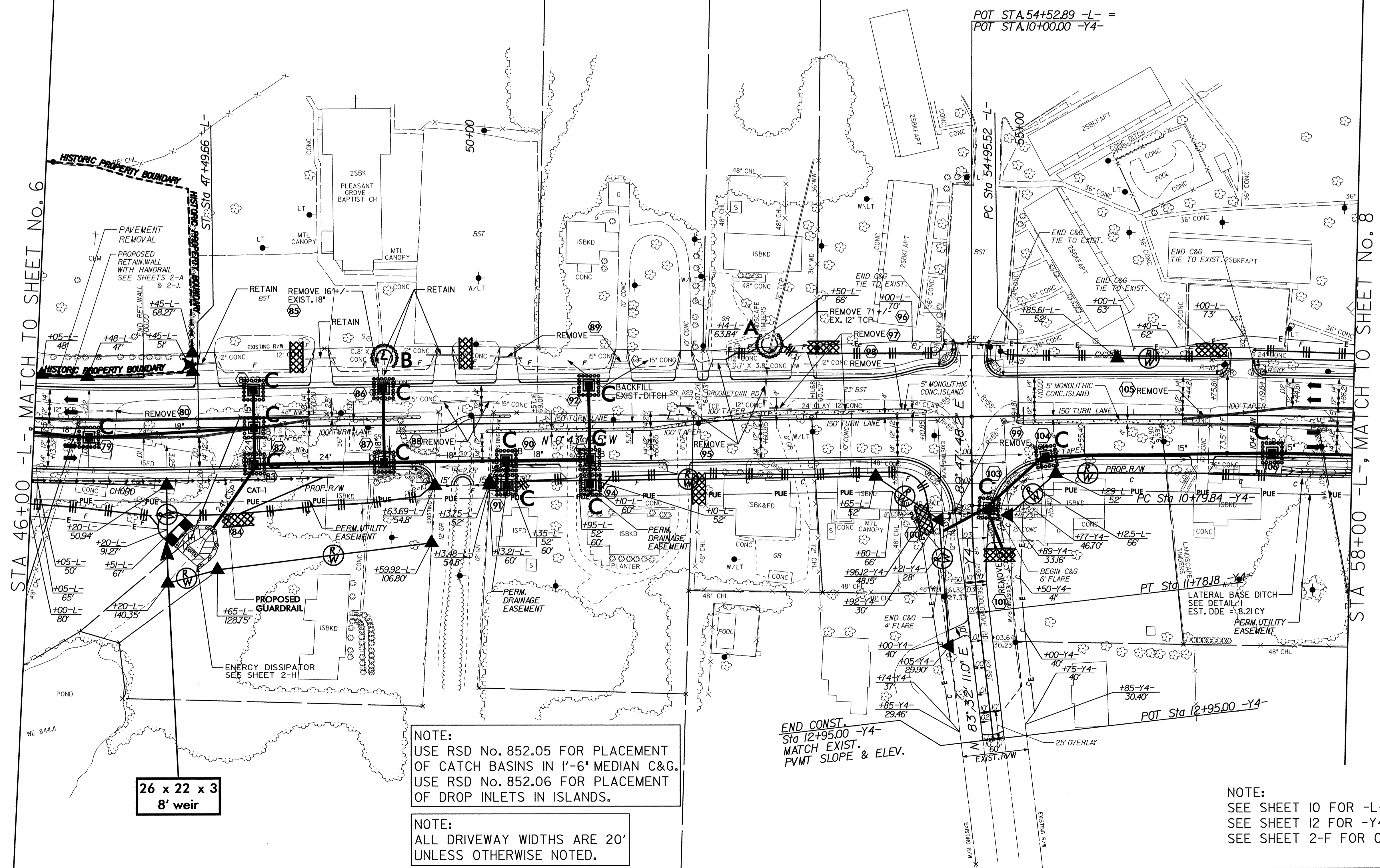
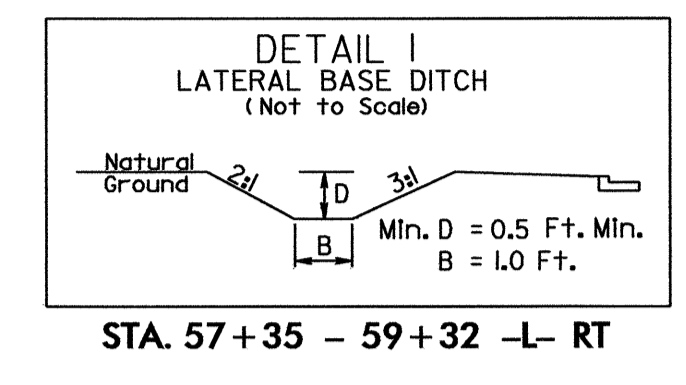
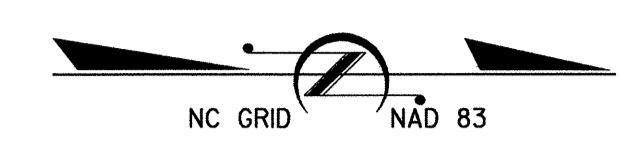
MATCH TO SHEET No. 1



8/17/99

PROJECT REFERENCE NO.	SHEET NO.
U-3313	EC-12/CONST.7
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

<p>-L-</p> <p>P.I. = 44+70.38</p> <p><math>\Delta = 22' 25" 08.8" (LT)</math></p> <p><math>L_s = 200.00'</math></p> <p><math>\theta_s = 6' 09" 39.0"</math></p> <p><math>T_s = 284.62'</math></p> <p><math>L = 163.90'</math></p> <p><math>R = 930.000'</math></p> <p><math>U = 133.4'</math></p> <p><math>V = 66.74'</math></p> <p><math>e = 0.04</math></p> <p>D.S. = 50.00 Mph</p>	<p>-L-</p> <p>P.I. = 57+08.08</p> <p><math>\Delta = 3' 02" 38.3" (RT)</math></p> <p><math>D = 0' 42" 58.3"</math></p> <p><math>T = 212.56'</math></p> <p><math>L = 425.02'</math></p> <p><math>R = 8,000.000'</math></p> <p><math>e = n.c.</math></p> <p>D.S. = 50mph</p>	<p>-Y4-</p> <p>P.I. = 11+29.06</p> <p><math>\Delta = 6' 15" 37.0" (LT)</math></p> <p><math>D = 6' 21" 58.3"</math></p> <p><math>T = 49.22'</math></p> <p><math>L = 98.34'</math></p> <p><math>R = 900.000'</math></p> <p><math>e = 0.03ft/ft</math></p> <p>D.S. = 30mph</p>
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26 x 22 x 3  
8' weir

NOTE:  
USE RSD No. 852.05 FOR PLACEMENT  
OF CATCH BASINS IN 1'-6" MEDIAN C&G.  
USE RSD No. 852.06 FOR PLACEMENT  
OF DROP INLETS IN ISLANDS.

NOTE:  
ALL DRIVEWAY WIDTHS ARE 20'  
UNLESS OTHERWISE NOTED.

END CONST.  
Sta 12+95.00 -Y4-  
MATCH EXIST.  
PVMT SLOPE & ELEV.

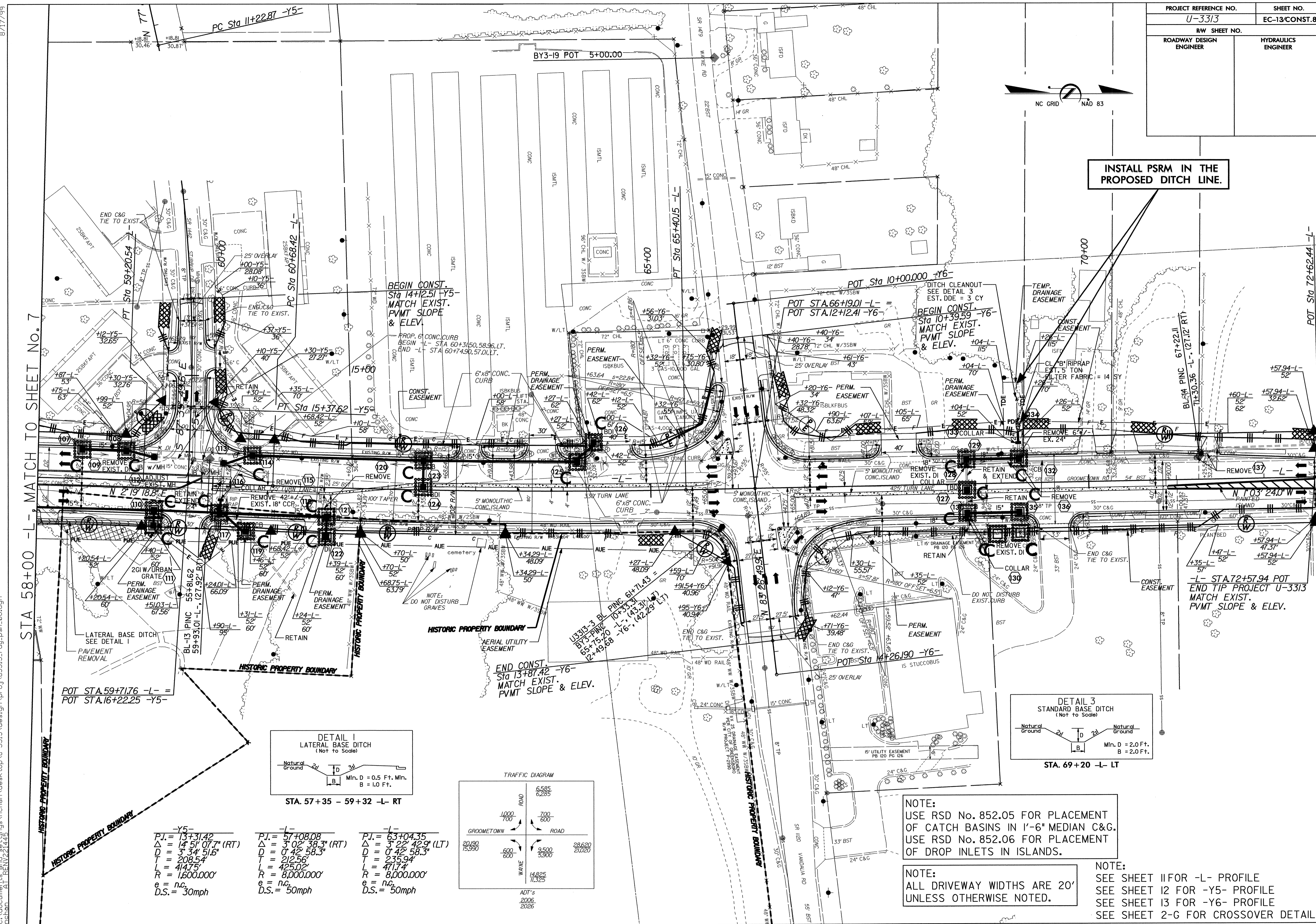
NOTE:  
SEE SHEET 10 FOR -L- PROFILE  
SEE SHEET 12 FOR -Y4- PROFILE  
SEE SHEET 2-F FOR CROSSOVER DETAIL

28-MAR-2006 14:20  
 c:\documents\g...  
 ...  
 ...  
 ...





INSTALL PSRM IN THE PROPOSED DITCH LINE.

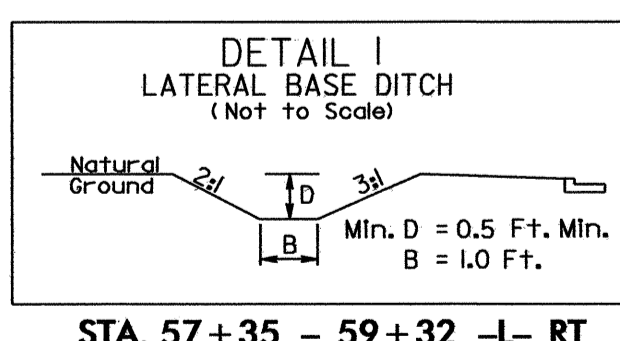


STA 58+00 -L- MATCH TO SHEET NO. 7

HISTORIC PROPERTY BOUNDARY

HISTORIC PROPERTY BOUNDARY

POT STA.59+71.76 -L- =  
POT STA.16+22.25 -Y5-

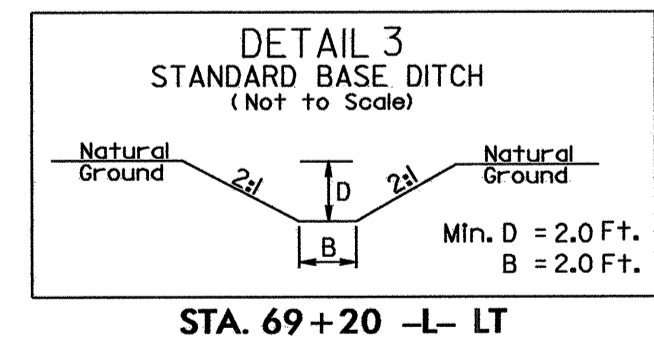
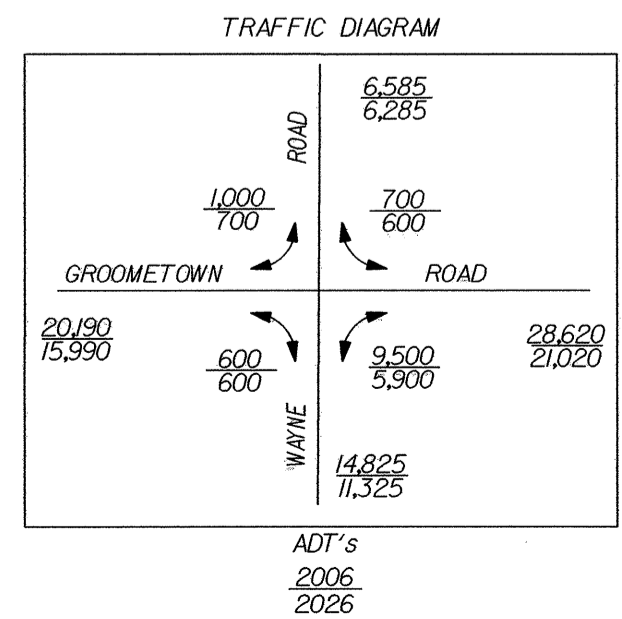


STA. 57+35 - 59+32 -L- RT

-Y5-  
P.I. = 13+31.42  
Δ = 14 51' 07.7" (RT)  
D = 3 34' 51.6"  
L = 209.54'  
T = 447.5'  
R = 1,600.000'  
e = n.c.  
D.S. = 30mph

-L-  
P.I. = 57+08.08  
Δ = 3 02' 38.3" (RT)  
D = 0 42' 58.3"  
L = 212.56'  
T = 425.02'  
R = 8,000.000'  
e = n.c.  
D.S. = 50mph

-L-  
P.I. = 63+04.35  
Δ = 3 22' 42.9" (LT)  
D = 0 42' 58.3"  
L = 235.94'  
T = 471.74'  
R = 8,000.000'  
e = n.c.  
D.S. = 50mph



STA. 69+20 -L- LT

NOTE:  
USE RSD No. 852.05 FOR PLACEMENT OF CATCH BASINS IN 1'-6" MEDIAN C&G.  
USE RSD No. 852.06 FOR PLACEMENT OF DROP INLETS IN ISLANDS.

NOTE:  
ALL DRIVEWAY WIDTHS ARE 20' UNLESS OTHERWISE NOTED.

NOTE:  
SEE SHEET 11 FOR -L- PROFILE  
SEE SHEET 12 FOR -Y5- PROFILE  
SEE SHEET 13 FOR -Y6- PROFILE  
SEE SHEET 2-G FOR CROSSOVER DETAIL