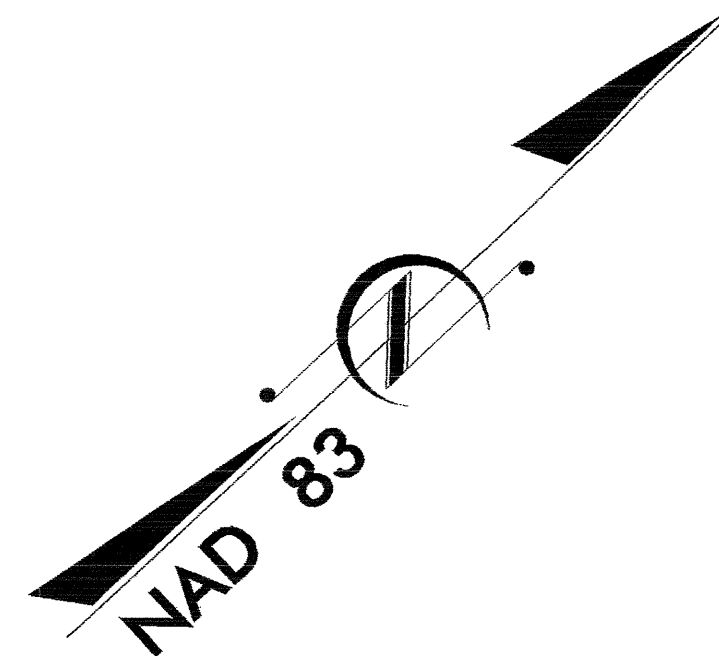


**TIP PROJECT: U-4008**

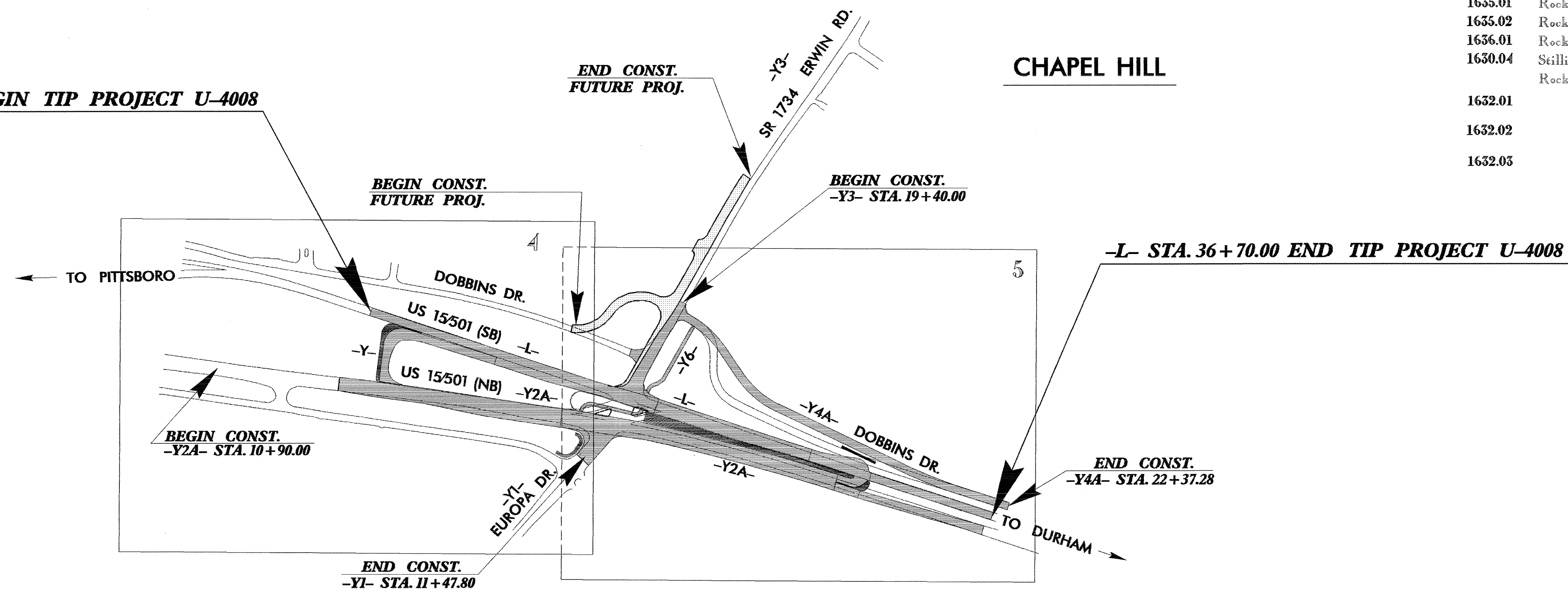
STATE OF NORTH CAROLINA  
 DIVISION OF HIGHWAYS  
 PLAN FOR PROPOSED  
 HIGHWAY EROSION CONTROL  
**ORANGE COUNTY**

**LOCATION: INTERSECTION IMPROVEMENT AT US 15-501  
 AND ERWIN ROAD IN CHAPEL HILL**

**TYPE OF WORK: GRADING, WIDENING, DRAINAGE, PAVING,  
 SIGNALS, RETAINING WALL, AND RESURFACING**



**-L- STA. 16+00.00 BEGIN TIP PROJECT U-4008**



**-L- STA. 36+70.00 END TIP PROJECT U-4008**

STATE	STATE PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.	U-4008	EC-1	
STATE PROJ. NO.	F.A. PROJ. NO.	DESCRIPTION	

**EROSION AND SEDIMENT CONTROL MEASURES**

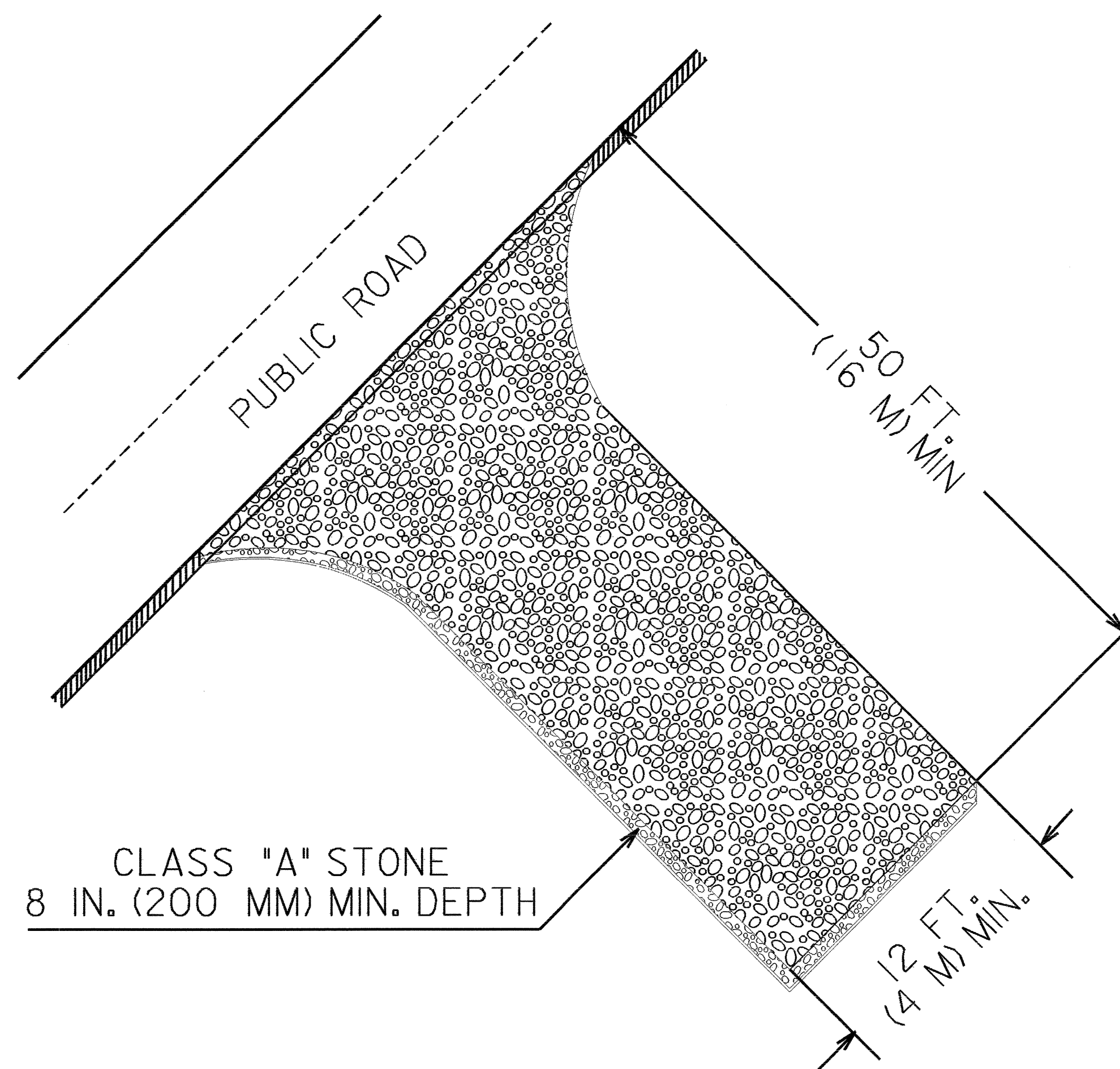
Std. #	Description	Symbol
	Reforestation.....	
1630.05	Temporary Silt Ditch.....	
1630.05	Temporary Diversion.....	
1605.01	Temporary Silt Fence.....	
1606.01	Special Sediment Control Fence.....	
1622.01	Temporary Berms and Slope Drains.....	
1630.01	Riser Basin.....	
1630.02	Silt Basin Type B.....	
1633.01	Temporary Rock Silt Check Type-A.....	
1633.02	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.....	
1635.01	Rock Silt Screen.....	
1636.01	Rock Silt Screen.....	
1630.04	Stilling Basin.....	
	Rock Inlet Sediment Trap:	
1632.01	Type A.....	
1632.02	Type B.....	
1632.05	Type C.....	

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

<p><b>GRAPHIC SCALE</b></p> <p>0 </p> <p>PLANS</p> <p>0 </p> <p>PROFILE (HORIZONTAL)</p> <p>0 </p> <p>PROFILE (VERTICAL)</p>	<p>ROADSIDE ENVIRONMENTAL UNIT          DIVISION OF HIGHWAYS          STATE OF NORTH CAROLINA</p>		<p>Prepared in the Office of:  <b>ROADSIDE ENVIRONMENTAL UNIT</b>          1 South Wilmington St.          Raleigh, NC 27611</p> <p><b>2002 STANDARD SPECIFICATIONS</b></p>	<p>Roadway Standard Drawings</p> <p>The following roadway english standards as appear in "Roadway Standard Drawings"- Roadway Design Unit - N. C. Department of Transportation - Raleigh, N. C., dated January 20, 2002 and the latest revision thereto are applicable to this project and by reference hereby are considered a part of these plans.</p> <table style="width: 100%; font-size: small;"> <tr> <td>1605.01 Temporary Silt Fence</td> <td>1632.01 Rock Inlet Sediment Trap Type A</td> </tr> <tr> <td>1630.02 Silt Basin Type B</td> <td>1632.03 Rock Inlet Sediment Trap Type C</td> </tr> <tr> <td>1630.03 Temporary Silt Ditch</td> <td>1633.01 Temporary Rock Silt Check Type A</td> </tr> <tr> <td>1630.05 Temporary Diversion</td> <td>1633.02 Temporary Rock Silt Check Type B</td> </tr> <tr> <td></td> <td>1634.02 Temporary Rock Sediment Dam Type B</td> </tr> <tr> <td></td> <td>1635.01 Rock Pipe Inlet Sediment Trap Type A</td> </tr> </table>	1605.01 Temporary Silt Fence	1632.01 Rock Inlet Sediment Trap Type A	1630.02 Silt Basin Type B	1632.03 Rock Inlet Sediment Trap Type C	1630.03 Temporary Silt Ditch	1633.01 Temporary Rock Silt Check Type A	1630.05 Temporary Diversion	1633.02 Temporary Rock Silt Check Type B		1634.02 Temporary Rock Sediment Dam Type B		1635.01 Rock Pipe Inlet Sediment Trap Type A
1605.01 Temporary Silt Fence	1632.01 Rock Inlet Sediment Trap Type A															
1630.02 Silt Basin Type B	1632.03 Rock Inlet Sediment Trap Type C															
1630.03 Temporary Silt Ditch	1633.01 Temporary Rock Silt Check Type A															
1630.05 Temporary Diversion	1633.02 Temporary Rock Silt Check Type B															
	1634.02 Temporary Rock Sediment Dam Type B															
	1635.01 Rock Pipe Inlet Sediment Trap Type A															

PROJ. REFERENCE NO. <i>U-4008</i>	SHEET NO. <i>EC-2</i>	TOTAL SHEETS
STATE PROJECT NO.	F.A. PROJ. NO.	DESCRIPTION

## TEMPORARY GRAVEL CONSTRUCTION ENTRANCE



### NOTES:

1. TURNING RADIUS SUFFICIENT TO ACCOMODATE LARGE TRUCKS SHALL BE PROVIDED.
2. ENTRANCE(S) SHOULD BE LOCATED TO PROVIDE FOR UTILIZATION BY ALL CONSTRUCTION VEHICLES.
3. MUST BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING OR DIRECT FLOW OF MUD ONTO STREETS. PERIODIC TOPDRESSING WITH STONE WILL BE NECESSARY.
4. ANY MATERIAL TRACKED ONTO THE ROADWAY MUST BE CLEANED UP IMMEDIATELY.
5. GRAVEL CONSTRUCTION ENTRANCE SHALL BE LOCATED AT ALL POINTS OF INGRESS AND EGRESS UNTIL SITE IS STABILIZED. FREQUENT CHECKS OF THE DEVICE AND TIMELY MAINTENANCE MUST BE PROVIDED.
6. NUMBER AND LOCATION OF CONSTRUCTION ENTRANCES TO BE DETERMINED BY THE ENGINEER

NOTE: FILTER FABRIC TO BE PLACED BENEATH STONE

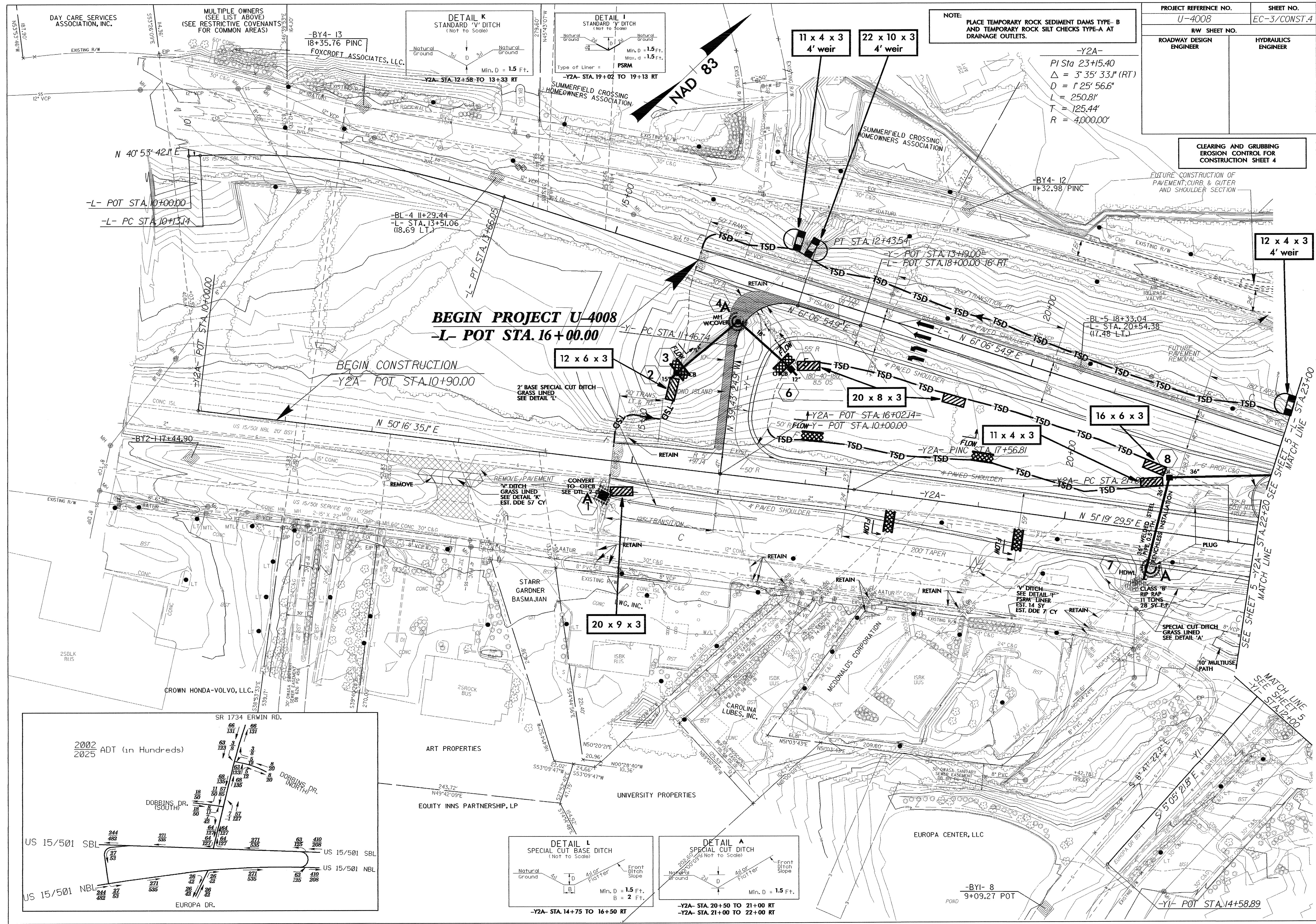


PROJECT REFERENCE NO. U-4008	SHEET NO. EC-3/CONST.4
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

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

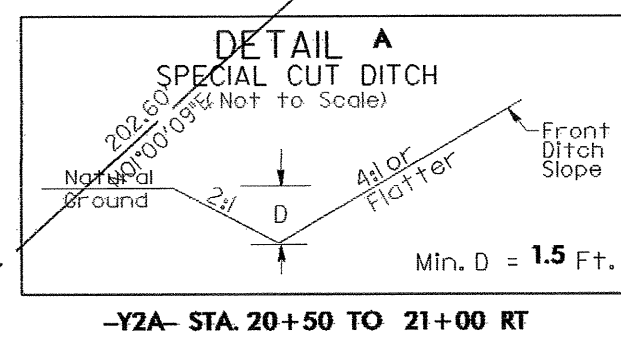
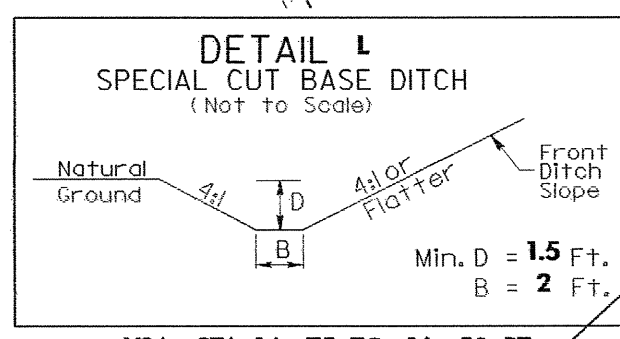
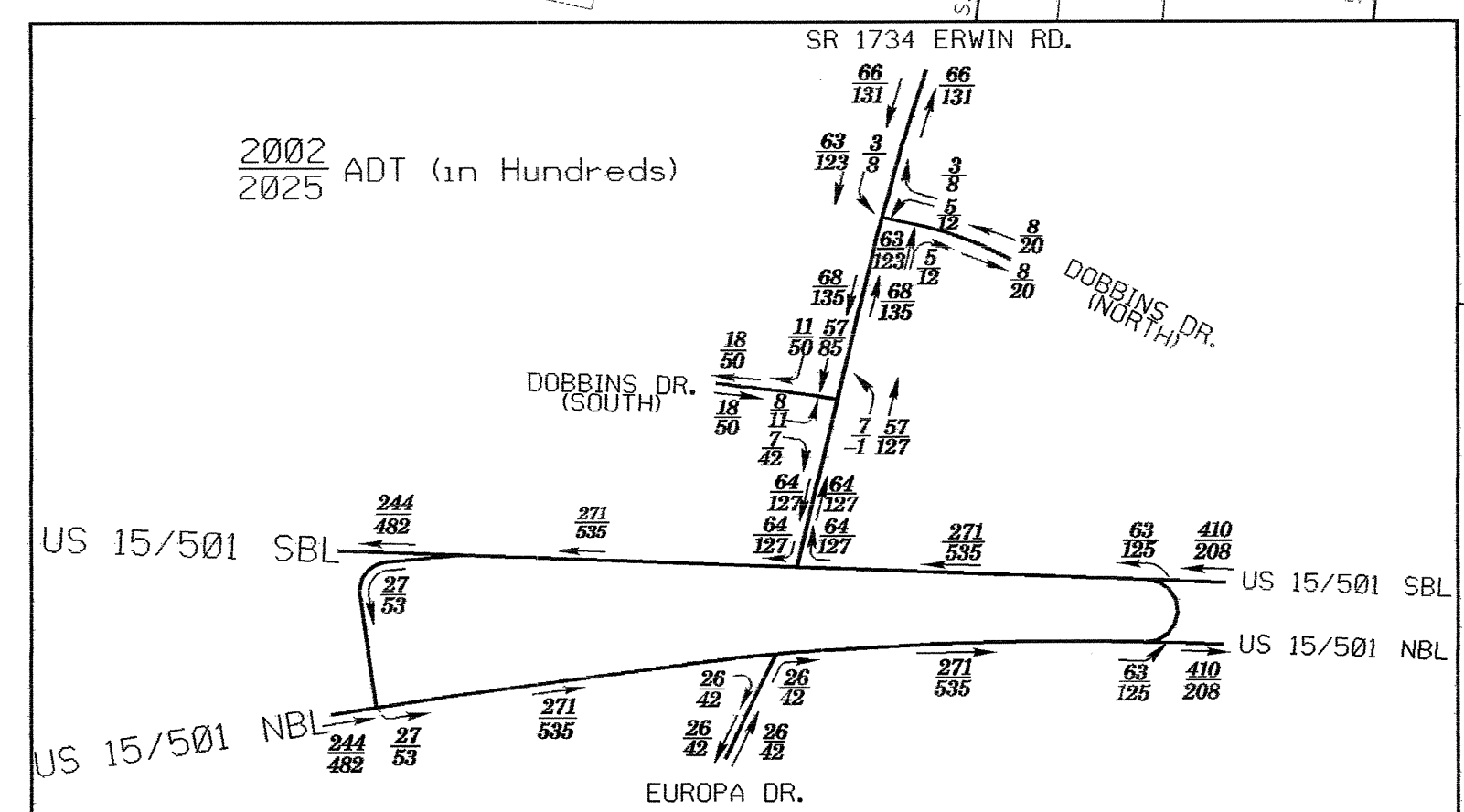
-Y2A-  
PI Sta 23+15.40  
 $\Delta = 3' 35' 33.1''$  (RT)  
 $D = 1' 25' 56.6''$   
 $L = 250.81'$   
 $T = 125.44'$   
 $R = 4,000.00'$

CLEARING AND GRUBBING  
EROSION CONTROL FOR  
CONSTRUCTION SHEET 4



**BEGIN PROJECT U-4008**  
**-L- POT STA. 16+00.00**

**BEGIN CONSTRUCTION**  
**-Y2A- POT. STA. 10+90.00**



SEE SHEET 5 -Y2A- STA. 22+20 SEE MATCH LINE  
SEE SHEET 5 -L- STA. 12+00 SEE MATCH LINE

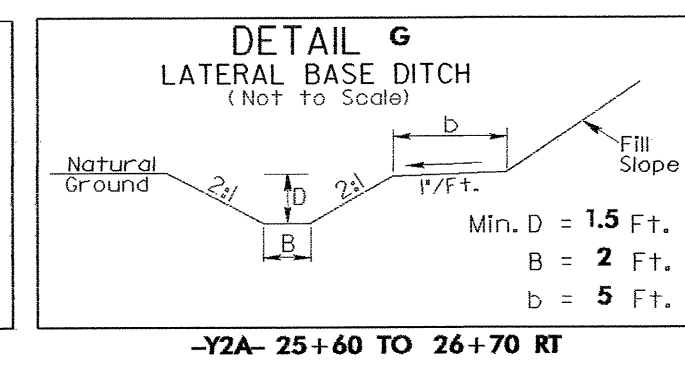
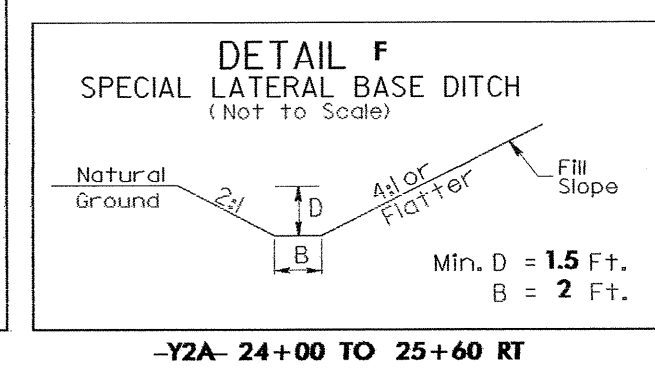
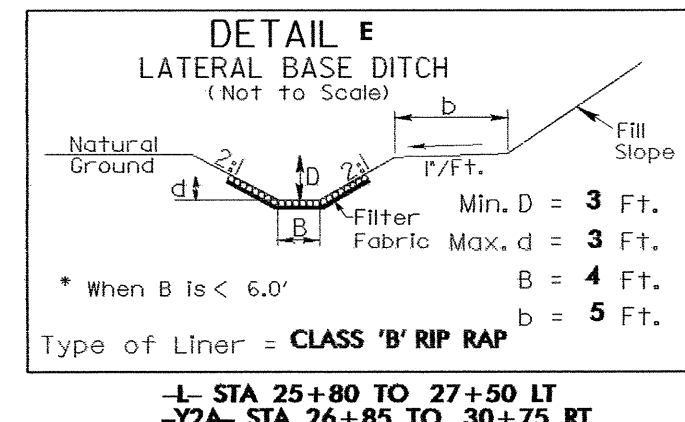
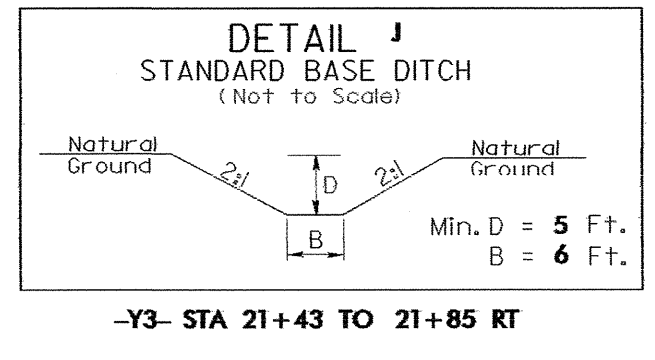
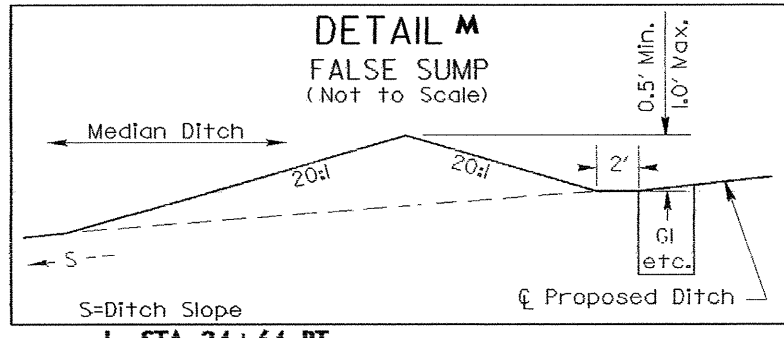
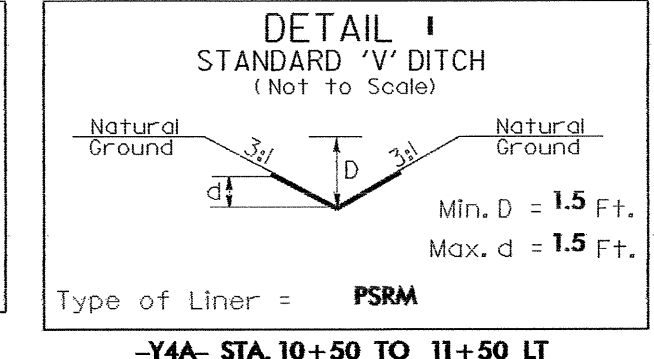
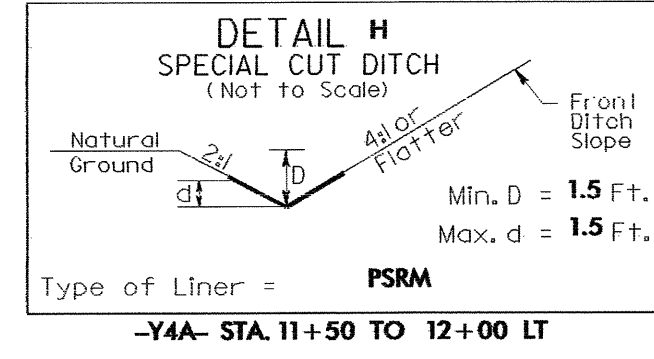
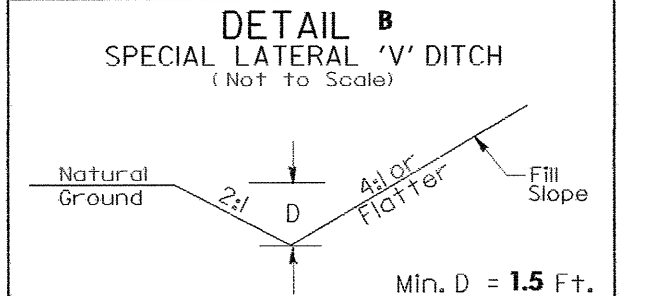
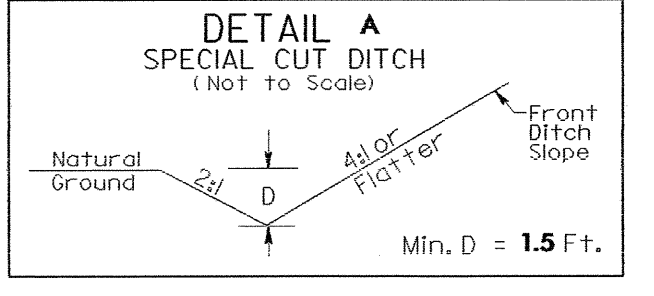
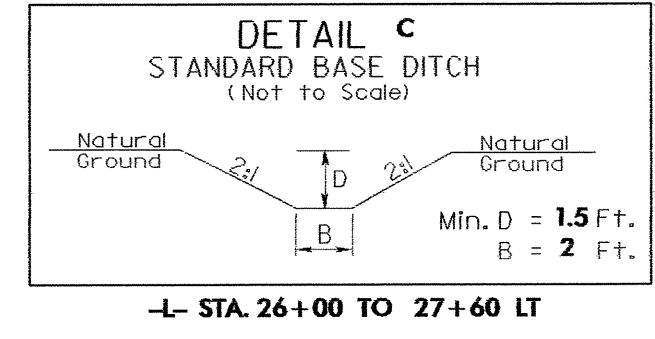
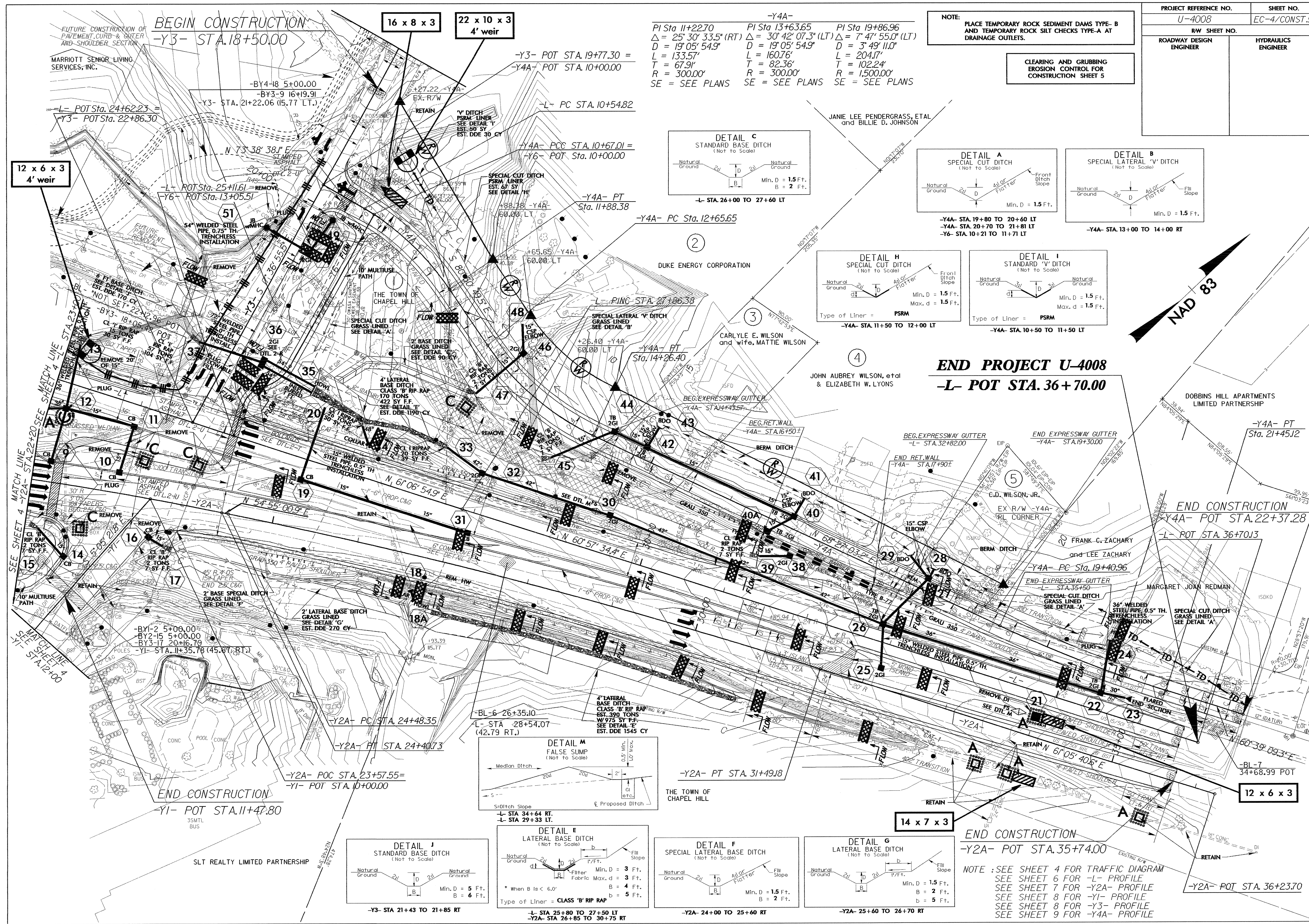


PROJECT REFERENCE NO.	SHEET NO.
U-4008	EC-4/CONST.5
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

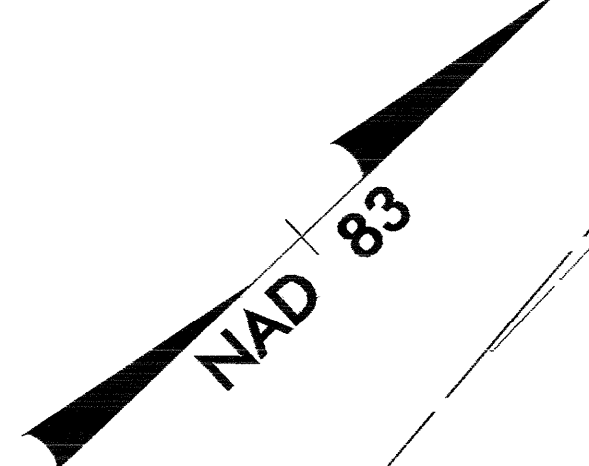
NOTE: PLACE TEMPORARY ROCK SEDIMENT DAMS TYPE-B AND TEMPORARY ROCK SILT CHECKS TYPE-A AT DRAINAGE OUTLETS.

CLEARING AND GRUBBING EROSION CONTROL FOR CONSTRUCTION SHEET 5

PI Sta	PI Sta	PI Sta
11+22.70	13+63.65	19+86.96
$\Delta = 25^{\circ} 30' 33.5''$ (RT)	$\Delta = 30^{\circ} 42' 07.3''$ (LT)	$\Delta = 7^{\circ} 47' 55.0''$ (LT)
$D = 19^{\circ} 05' 54.9''$	$D = 19^{\circ} 05' 54.9''$	$D = 3^{\circ} 49' 11.0''$
$L = 133.57'$	$L = 160.76'$	$L = 204.17'$
$T = 67.91'$	$T = 82.36'$	$T = 102.24'$
$R = 300.00'$	$R = 300.00'$	$R = 1,500.00'$
SE = SEE PLANS	SE = SEE PLANS	SE = SEE PLANS



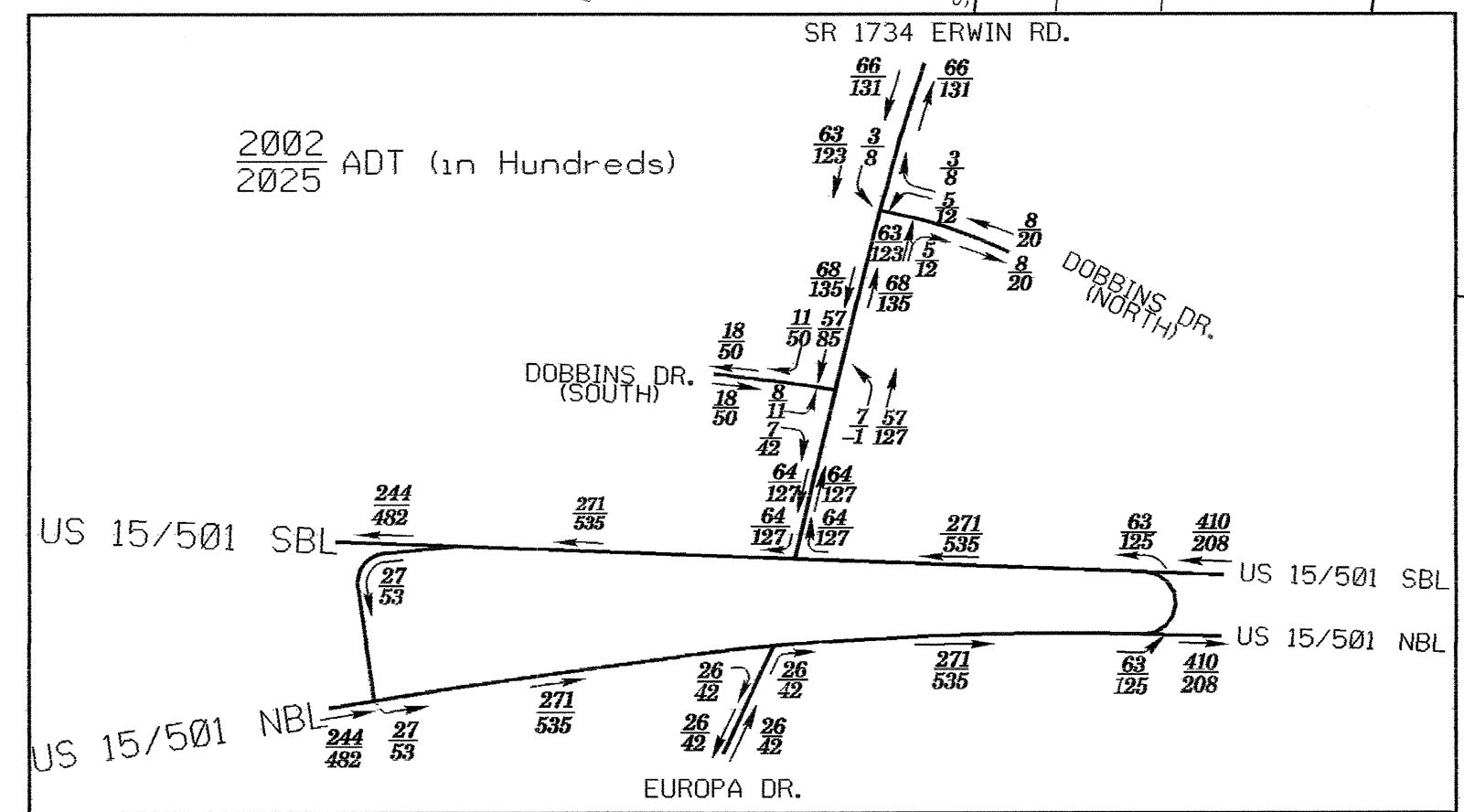
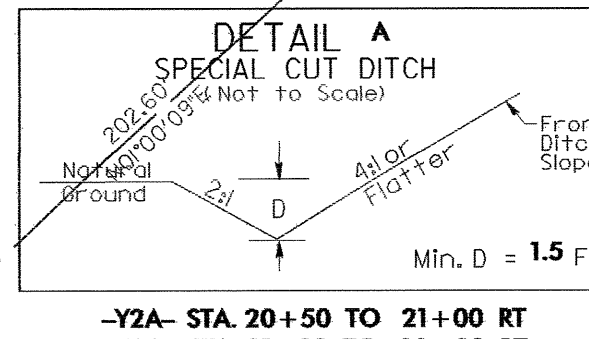
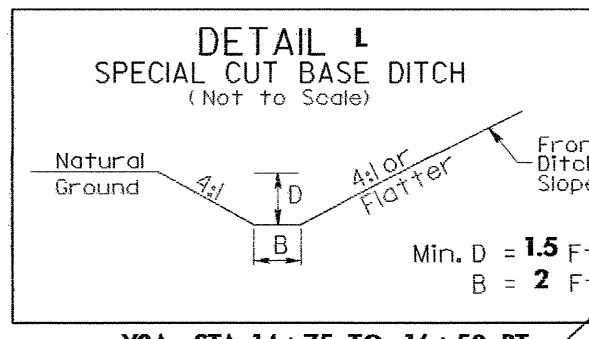
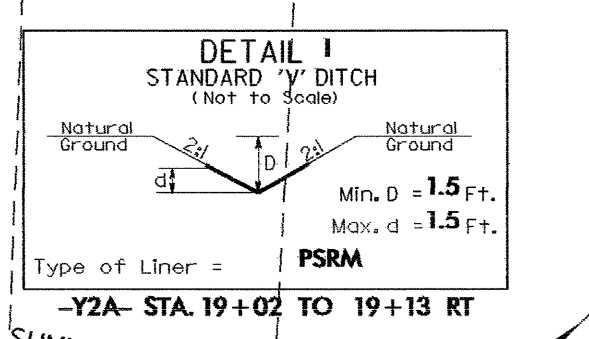
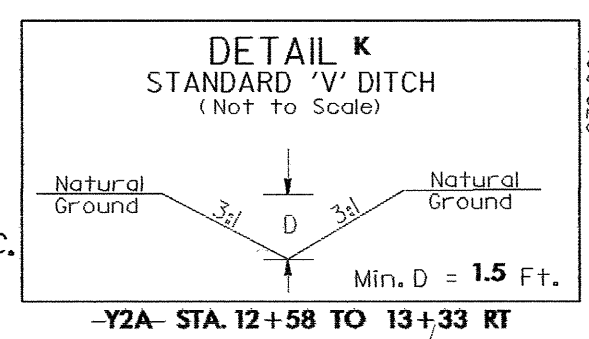
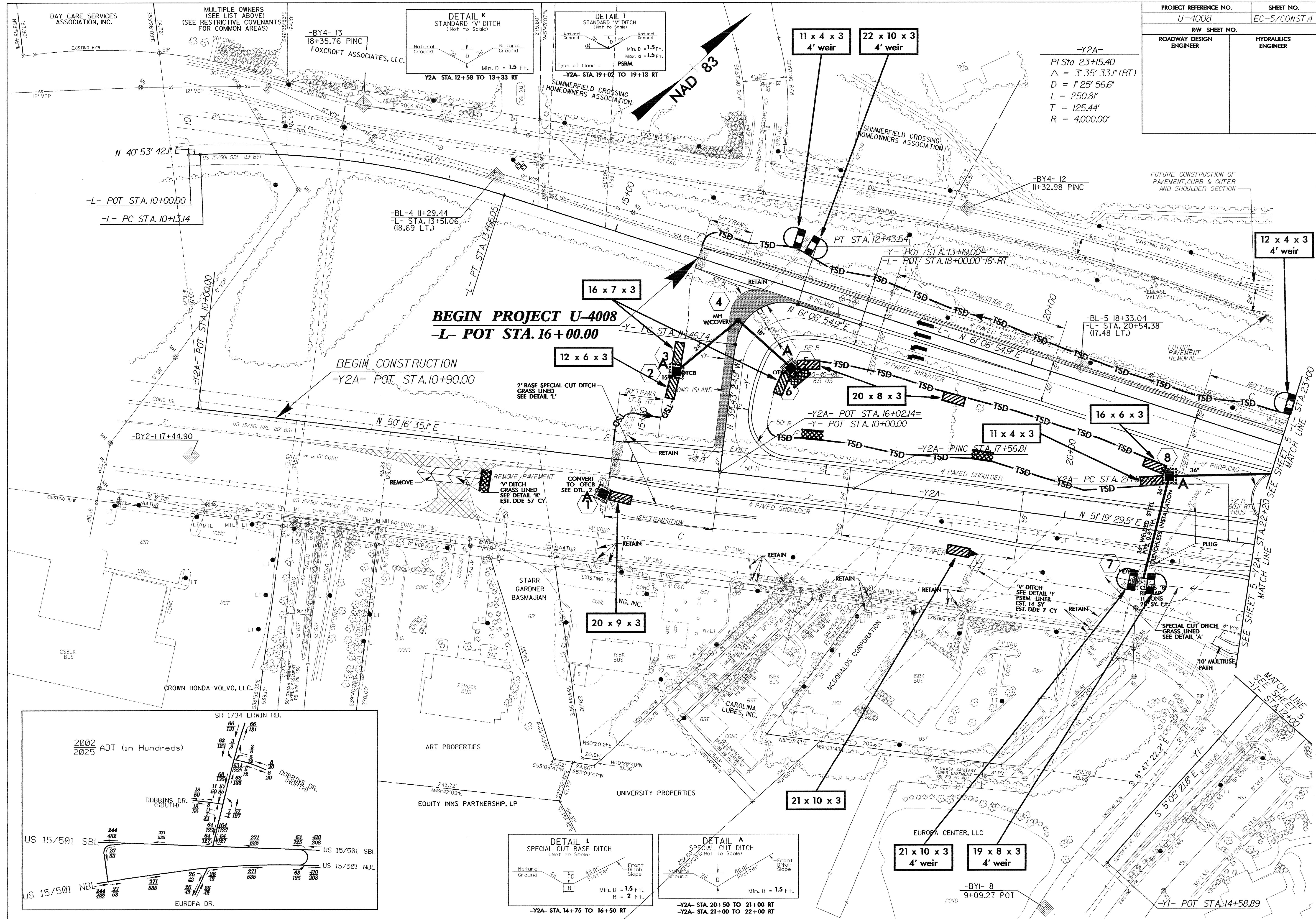
NOTE: SEE SHEET 4 FOR TRAFFIC DIAGRAM  
SEE SHEET 6 FOR -L- PROFILE  
SEE SHEET 7 FOR -Y2A- PROFILE  
SEE SHEET 8 FOR -Y1- PROFILE  
SEE SHEET 9 FOR -Y4A- PROFILE





PROJECT REFERENCE NO.		SHEET NO.	
U-4008		EC-5/CONST.4	
R/W SHEET NO.			
ROADWAY DESIGN ENGINEER		HYDRAULICS ENGINEER	

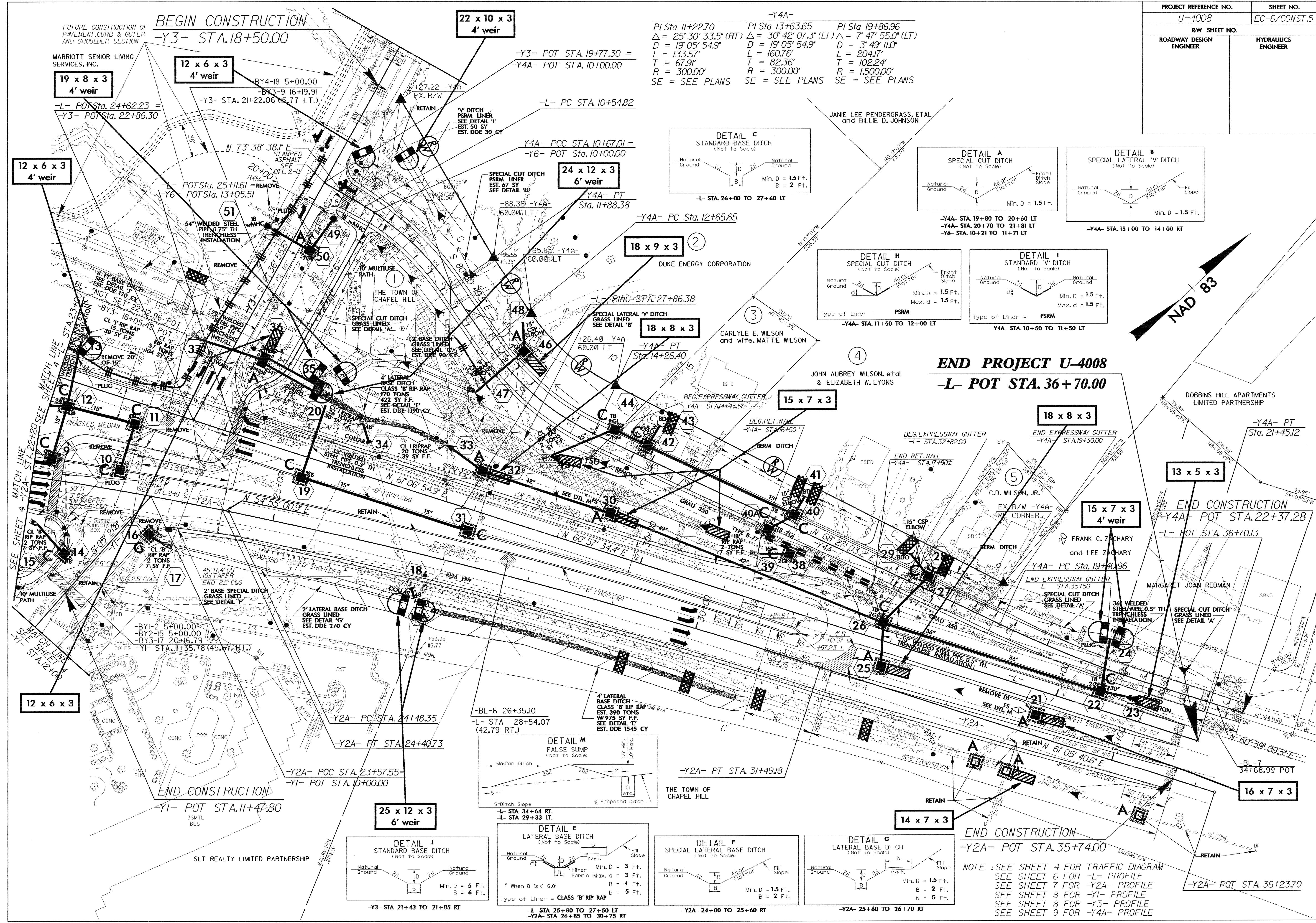
-Y2A-  
 PI Sta 23+15.40  
 $\Delta = 3' 35' 33.1''$  (RT)  
 $D = 1' 25' 56.6''$   
 $L = 250.81'$   
 $T = 125.44'$   
 $R = 4,000.00'$



MATCH LINE - STA. 23+700  
 SEE SHEET 5 - Y2A - STA. 22+20  
 MATCH LINE - STA. 12+00  
 MATCH LINE - STA. 12+00  
 MATCH LINE - STA. 12+00



PROJECT REFERENCE NO.	SHEET NO.
U-4008	EC-6/CONST.5
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER



NOTE : SEE SHEET 4 FOR TRAFFIC DIAGRAM  
SEE SHEET 6 FOR -L- PROFILE  
SEE SHEET 7 FOR -Y2A- PROFILE  
SEE SHEET 8 FOR -Y1- PROFILE  
SEE SHEET 8 FOR -Y3- PROFILE  
SEE SHEET 9 FOR -Y4A- PROFILE