

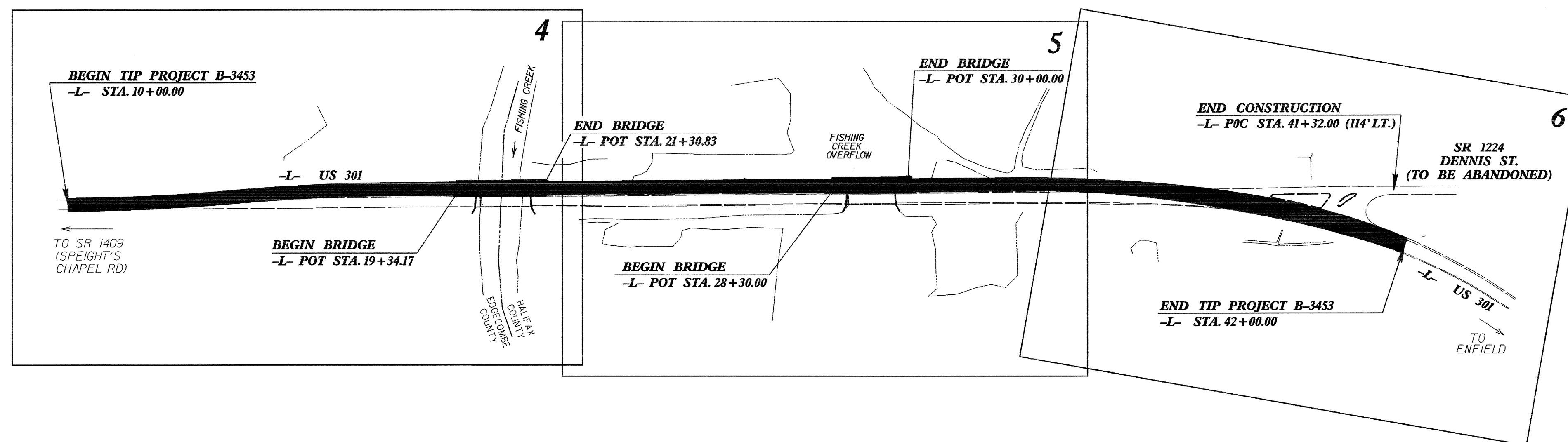
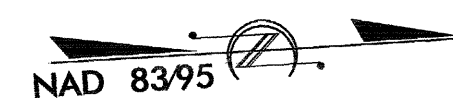
**TIP PROJECT: B-3453**

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

**EDGECOMBE & HALIFAX COUNTIES**

**LOCATION: BRIDGE NO. 23 OVER FISHING CREEK AND BRIDGE NO. 17  
OVER FISHING CREEK OVERFLOW ON US 301**

**TYPE OF WORK: GRADING, DRAINAGE, STRUCTURES, PAVING, GUARDRAIL, AND SIGNING**



**EROSION AND SEDIMENT CONTROL MEASURES**

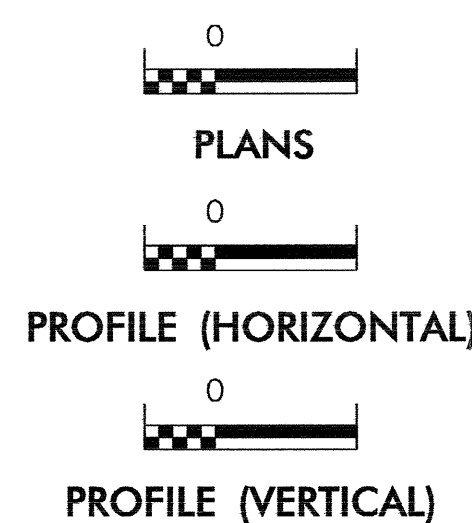
Std. #	Description	Symbol
	Streambank Reforestation	
1630.03	Temporary Silt Ditch	
1630.05	Temporary Diversion	
1605.01	Temporary Silt Fence	
1606.01	Special Sediment Control Fence	
1622.01	Temporary Berms and Slope Drains	
1630.01	Riser Basin	
1630.02	Silt Basin Type B	
1633.01	Temporary Rock Silt Check Type-A	
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	
1636.01	Rock Silt Screen	
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.**

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

**GRAPHIC SCALE**



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  
**2002 STANDARD SPECIFICATIONS**

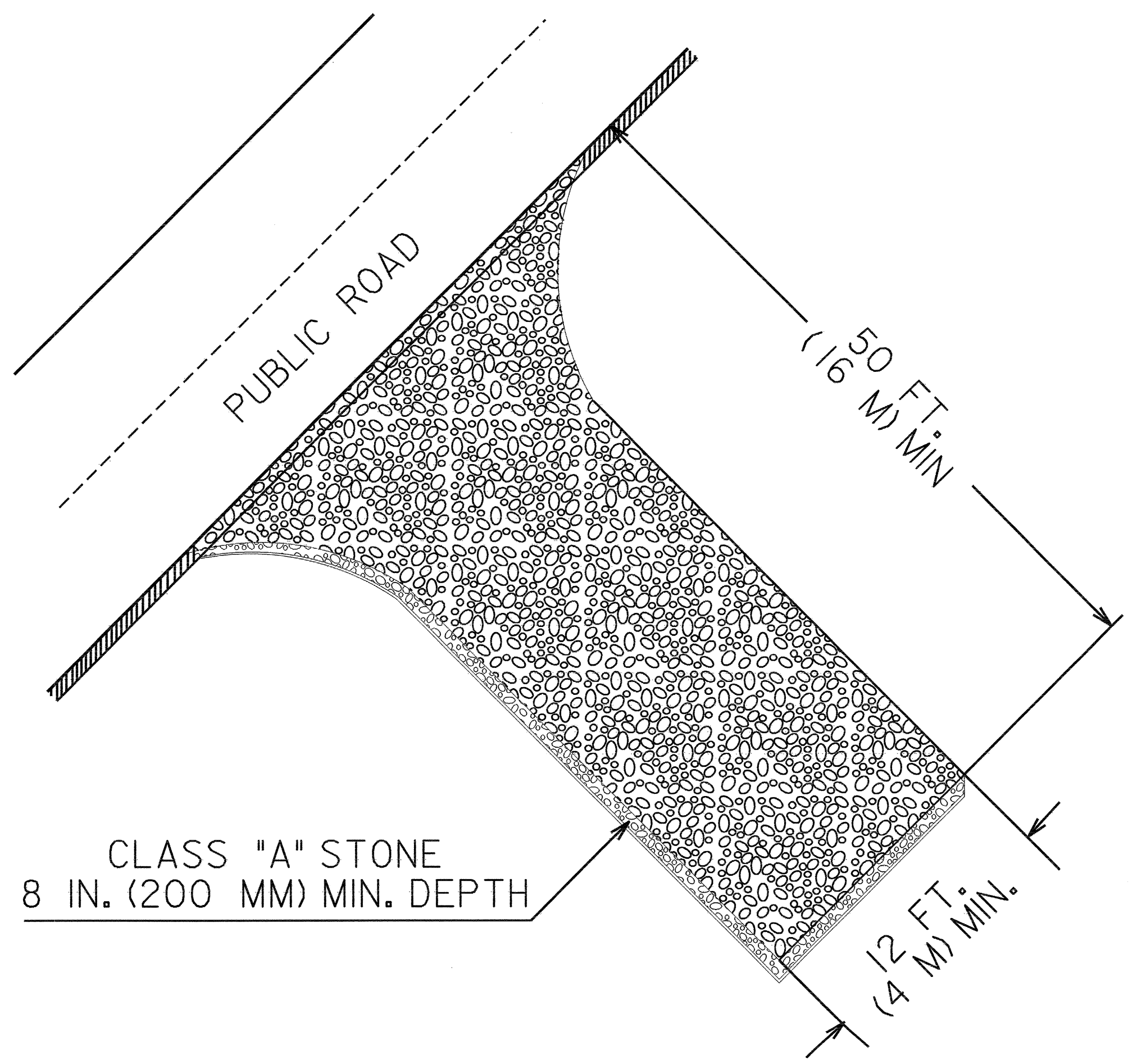
Roadway Standard Drawings

The following roadway english standards as appear in "Roadway Standard Drawings"- Roadway Design Unit - N. C. Department of Transportation - Raleigh, N. C., dated January 20, 2002 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
1622.01 Temporary Berms and Slope Drains	1633.01 Temporary Rock Silt Check Type A
1630.02 Silt Basin Type B	1633.02 Temporary Rock Silt Check Type B
1630.03 Temporary Silt Ditch	1634.02 Temporary Rock Sediment Dam Type B
1630.05 Temporary Diversion	

PROJ. REFERENCE NO. <b>B-3453</b>	SHEET NO. <b>BC-2</b>	TOTAL SHEETS
STATE PROJECT NO.	F.A. PROJ. NO.	DESCRIPTION

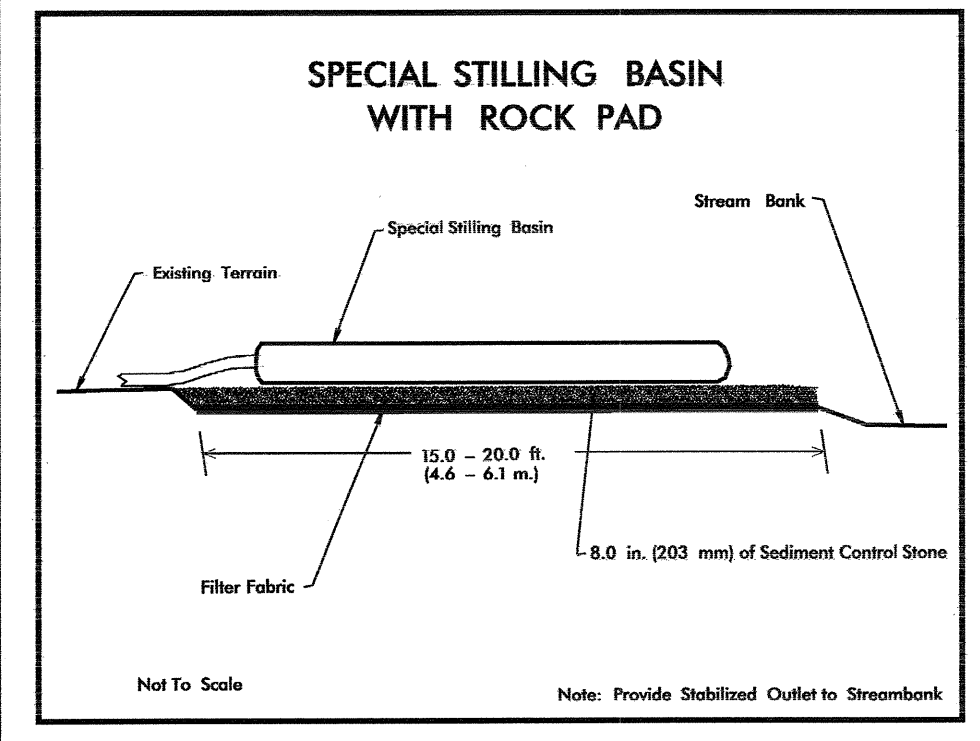
## TEMPORARY GRAVEL CONSTRUCTION ENTRANCE



- 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





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

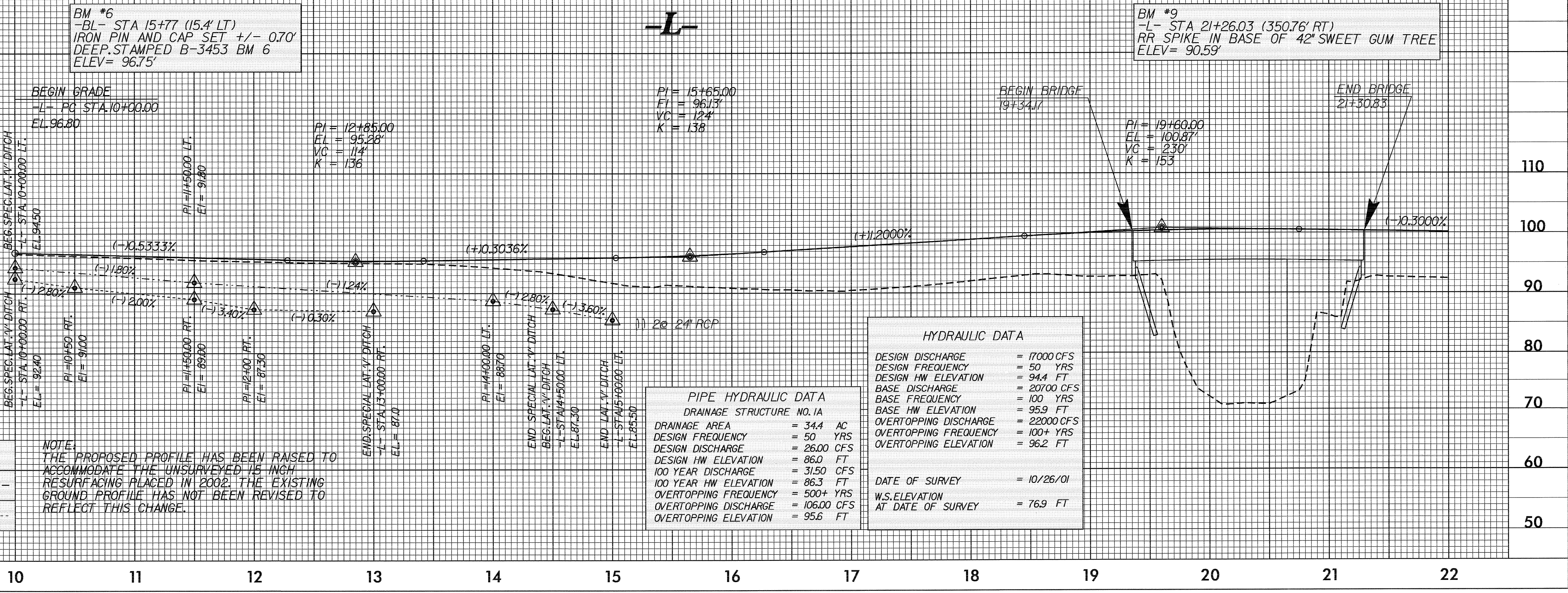
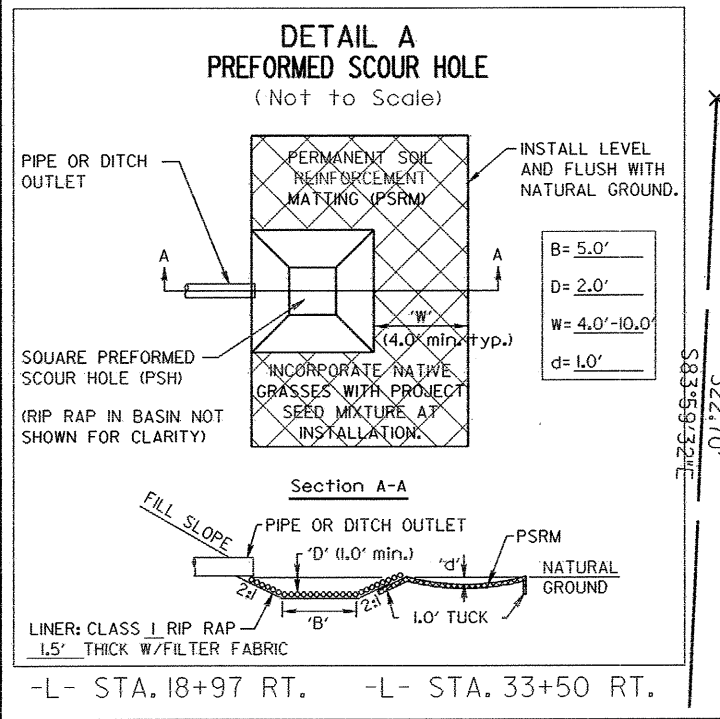
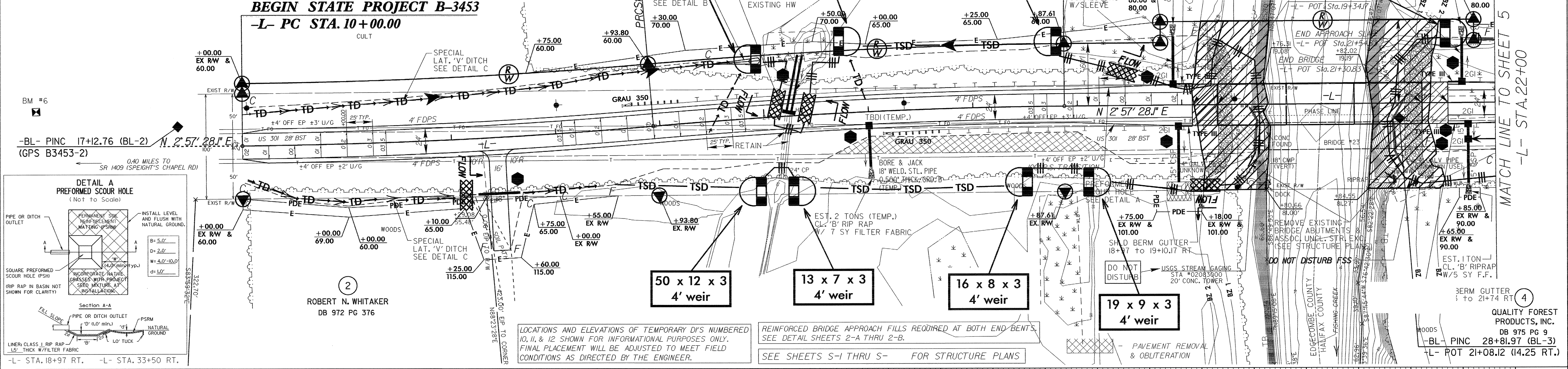
NOTE: TEMPORARY SILT FENCE SHALL BE INSTALLED A MINIMUM OF 3 FEET FROM TOE OF FILL IN WETLAND AREAS

NOTE: UTILIZE SPECIAL STILLING BASIN AND/OR TEMPORARY ROCK SEDIMENT DAM TYPE - B AS STILLING BASIN WHERE APPLICABLE.



ENVIRONMENTALLY SENSITIVE AREA  
SEE PROJECT SPECIAL PROVISIONS

CLEARING AND GRUBBING  
EROSION CONTROL FOR  
CONSTRUCTION SHEET 4



BM #6  
-BL- STA 15+77 (15.4' LT)  
IRON PIN AND CAP SET +/- 0.70'  
DEEP STAMPED B-3453 BM 6  
ELEV= 96.75'

BEGIN GRADE  
-L- PC STA. 10+00.00  
EL 96.80

PI=12+85.00  
EL= 95.26'  
VC= 124'  
K= 136

PI=11+50.00 LT.  
EL= 91.80

PI=11+45.00 LT.  
EL= 89.80

PI=12+40.00 RT.  
EL= 87.30

PI=12+30.00 RT.  
EL= 87.30

END SPECIAL LAT. V. DITCH  
-L- STA. 13+00.00 RT.  
EL= 87.0

PI=14+00.00 LT.  
EL= 89.70

END SPECIAL LAT. V. DITCH  
-L- STA. 14+50.00 LT.  
EL= 87.30

END LAT. V. DITCH  
-L- STA. 15+00.00 LT.  
EL= 85.50

PI=19+60.00  
EL= 100.87'  
VC= 230'  
K= 153

END BRIDGE  
21+30.83

DITCH LEGEND

LEFT DITCH	---
RIGHT DITCH	---

NOTE:  
THE PROPOSED PROFILE HAS BEEN RAISED TO ACCOMMODATE THE UNSURVEYED 15 INCH RESURFACING PLACED IN 2002. THE EXISTING GROUND PROFILE HAS NOT BEEN REVISED TO REFLECT THIS CHANGE.

PIPE HYDRAULIC DATA  
DRAINAGE STRUCTURE NO. 1A

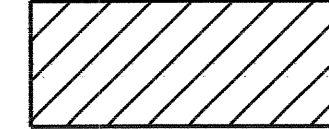
DRAINAGE AREA	= 34.4 AC
DESIGN FREQUENCY	= 50 YRS
DESIGN DISCHARGE	= 26.00 CFS
DESIGN HW ELEVATION	= 86.0 FT
100 YEAR DISCHARGE	= 31.50 CFS
100 YEAR HW ELEVATION	= 86.3 FT
OVERTOPPING FREQUENCY	= 500+ YRS
OVERTOPPING DISCHARGE	= 106.00 CFS
OVERTOPPING ELEVATION	= 95.6 FT

HYDRAULIC DATA

DESIGN DISCHARGE	= 17000 CFS
DESIGN FREQUENCY	= 50 YRS
DESIGN HW ELEVATION	= 94.4 FT
BASE DISCHARGE	= 20700 CFS
BASE FREQUENCY	= 100 YRS
BASE HW ELEVATION	= 95.9 FT
OVERTOPPING DISCHARGE	= 22000 CFS
OVERTOPPING FREQUENCY	= 100+ YRS
OVERTOPPING ELEVATION	= 96.2 FT
DATE OF SURVEY	= 10/26/01
W.S. ELEVATION AT DATE OF SURVEY	= 76.9 FT



PROJECT REFERENCE NO. B-3453	SHEET NO. EC-6/CONST. 6
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

 ENVIRONMENTALLY SENSITIVE AREA  
SEE PROJECT SPECIAL PROVISIONS

NAD 83/95

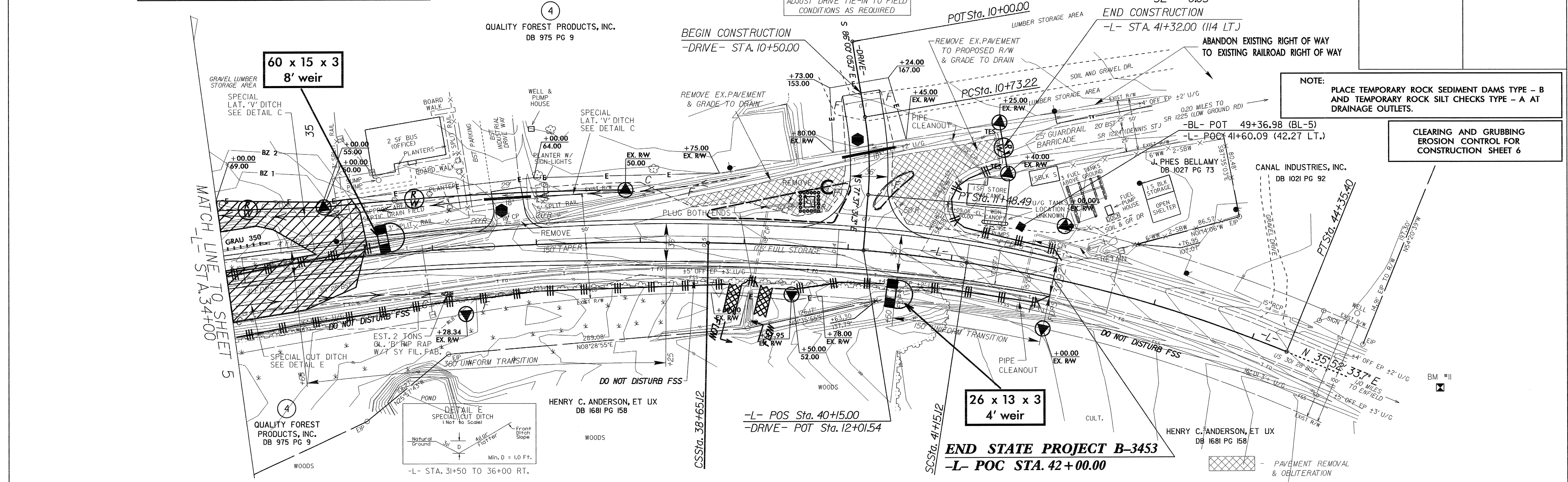
-DRIVE-  
PI Sta 11+11.05  
 $\Delta = 14' 22'' 34.4''$  (RT)  
 $D = 19' 05'' 54.9''$   
 $L = 75.27'$   
 $T = 37.84'$   
 $R = 300.00'$

NOTE:  
TEMPORARY SILT FENCE SHALL BE INSTALLED A MINIMUM OF 3 FEET FROM TOE OF FILL IN WETLAND AREAS

PI Sta 35+65.29  
 $\Delta = 11' 29'' 28.5''$  (RT)  
 $D = 1' 54'' 35.5''$   
 $L = 601.68$   
 $T = 301.85'$   
 $R = 3,000.00'$

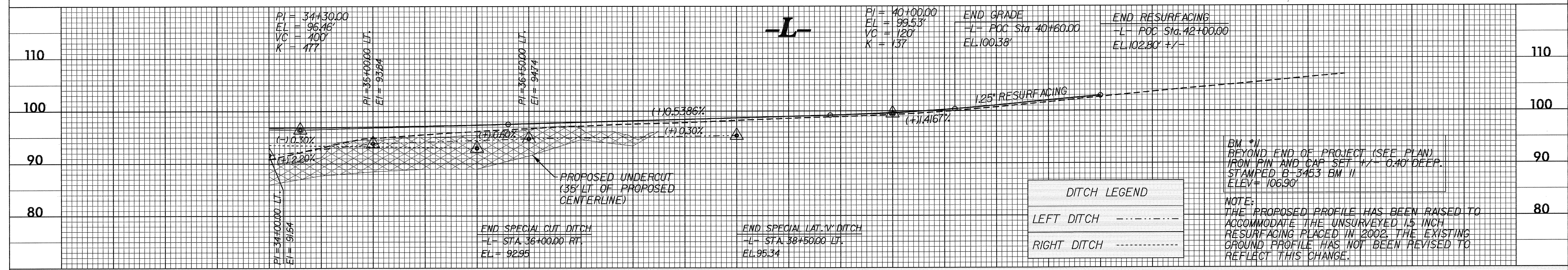
PIs Sta 40+06.24  
 $\Delta = 2' 23'' 07.5''$   
 $\Delta = 5' 20'' 48.0''$   
 $L_s = 250.00'$   
 $LT = 141.13'$   
 $ST = 109.24'$   
 $SE = 0.05$

PI Sta 42+76.03  
 $\Delta = 13' 41'' 41.7''$  (RT)  
 $D = 4' 16'' 32.9''$   
 $L = 320.29$   
 $T = 160.91'$   
 $R = 1,340.00'$



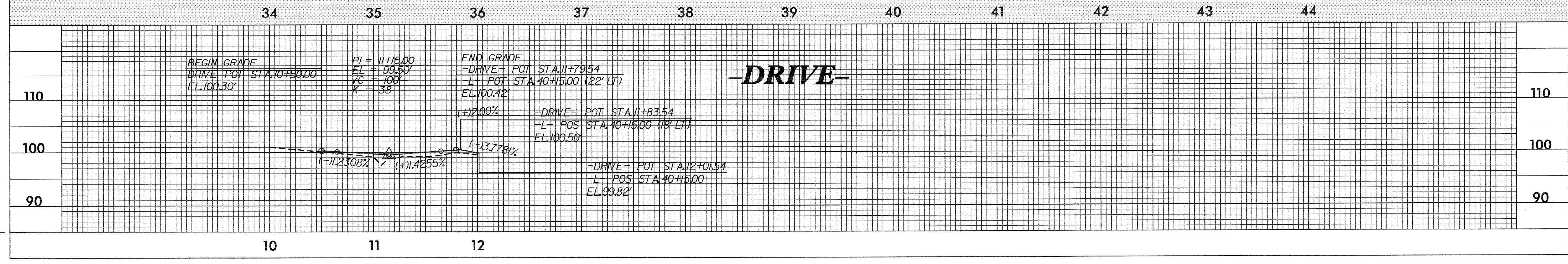
NOTE:  
PLACE TEMPORARY ROCK SEDIMENT DAMS TYPE - B AND TEMPORARY ROCK SILT CHECKS TYPE - A AT DRAINAGE OUTLETS.

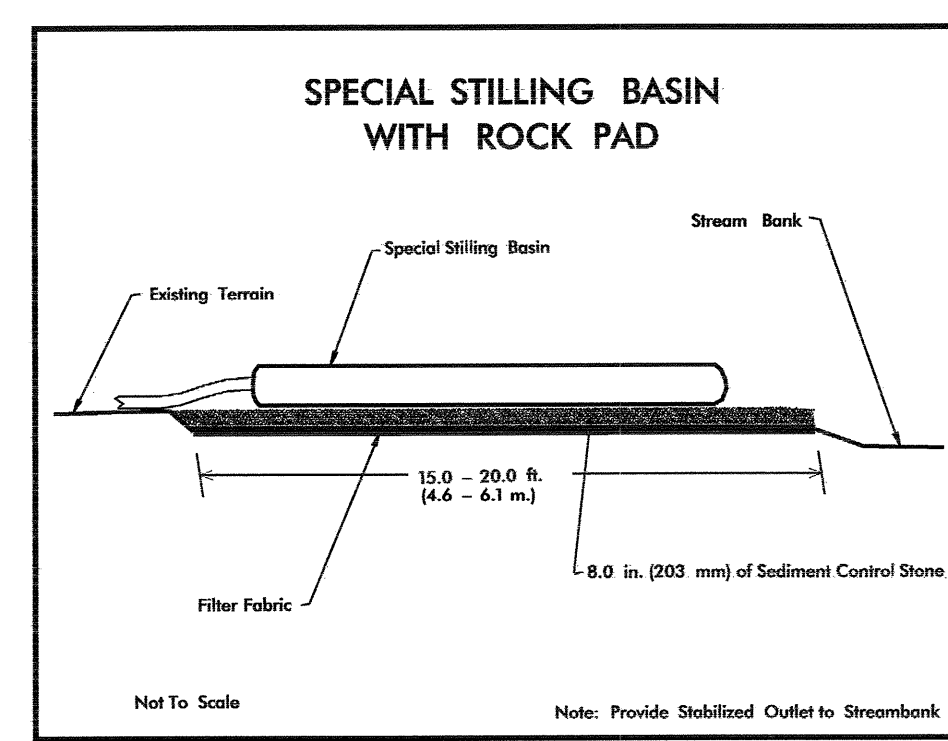
CLEARING AND GRUBBING EROSION CONTROL FOR CONSTRUCTION SHEET 6



BM #11  
BEYOND END OF PROJECT (SEE PLAN)  
IRON PIN AND CAP SET +/- 0.40' DEEP.  
STAMPED B-3453 BM #11  
ELEV = 106.90'

NOTE:  
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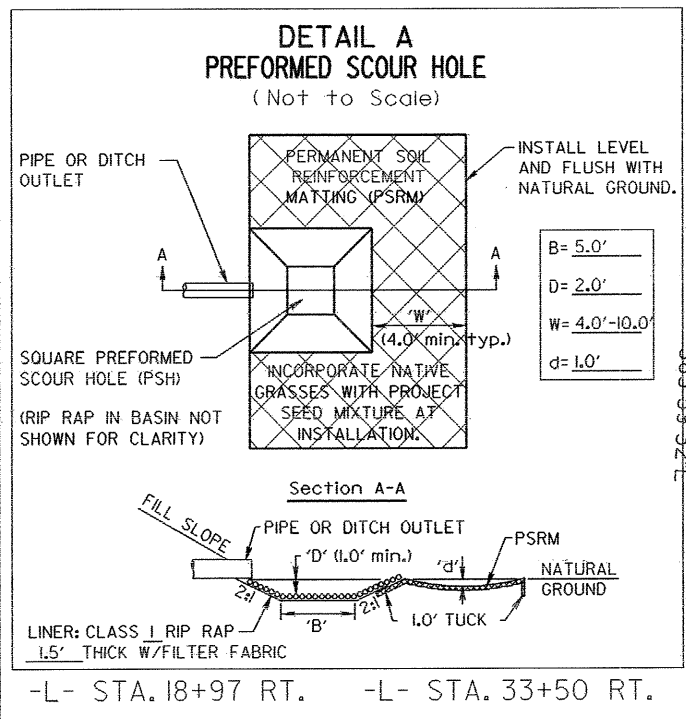
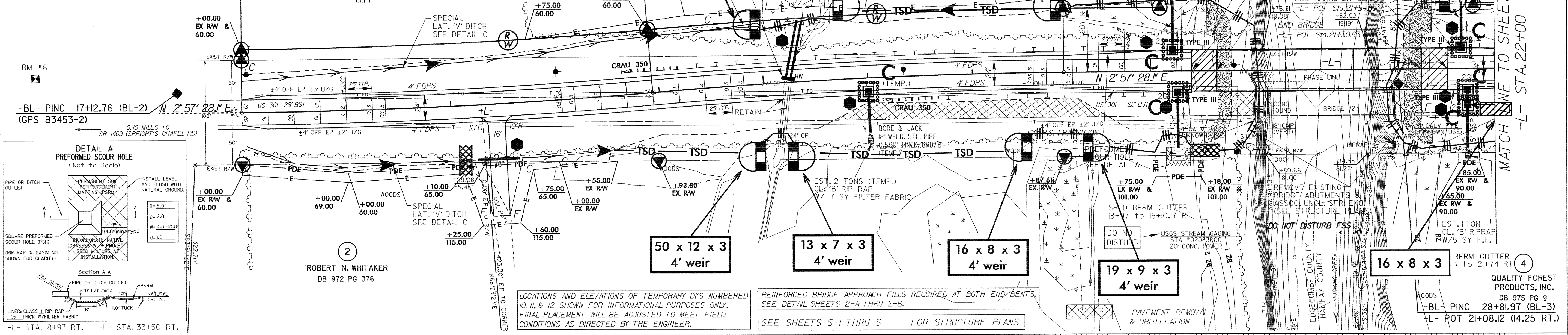


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NOTE: UTILIZE SPECIAL STILLING BASIN AND/OR TEMPORARY ROCK SEDIMENT DAM TYPE - B AS STILLING BASIN WHERE APPLICABLE.

NAD 83/95

**BEGIN STATE PROJECT B-3453**  
**-L- PC STA. 10+00.00**

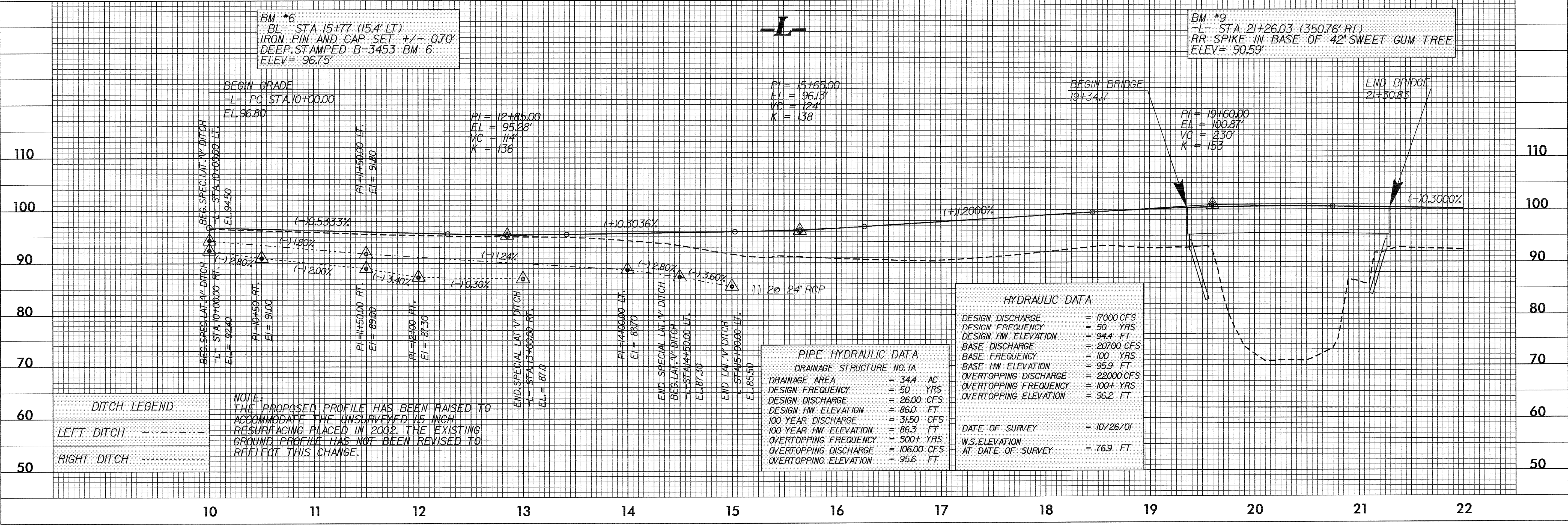


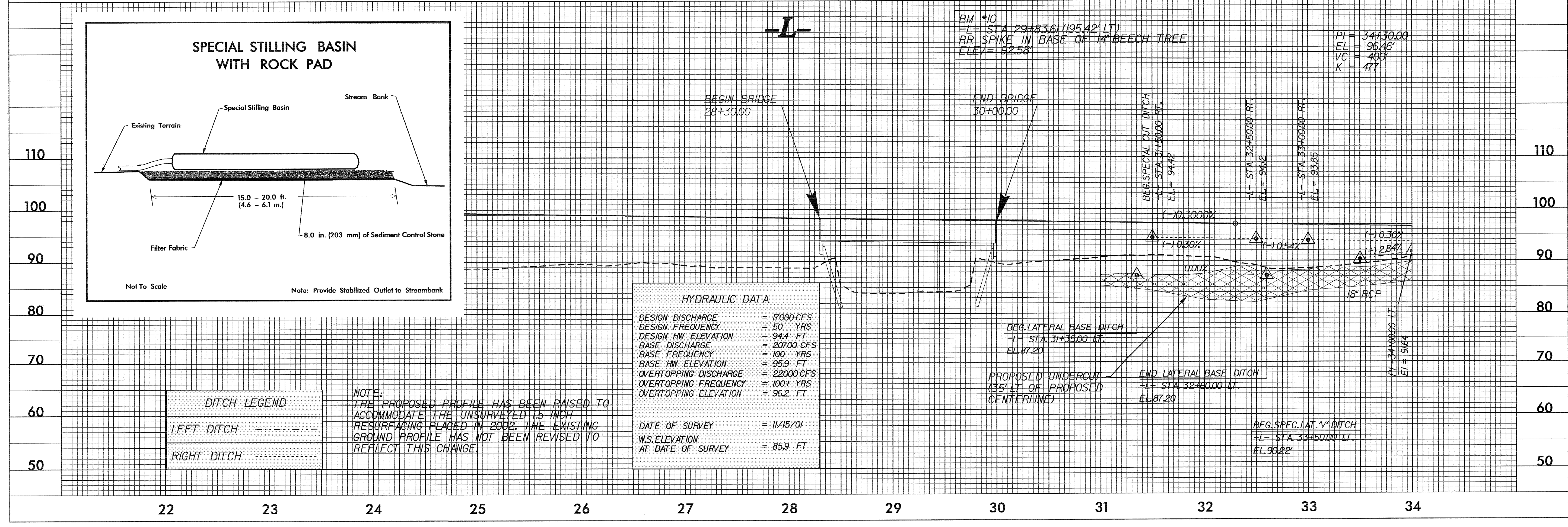
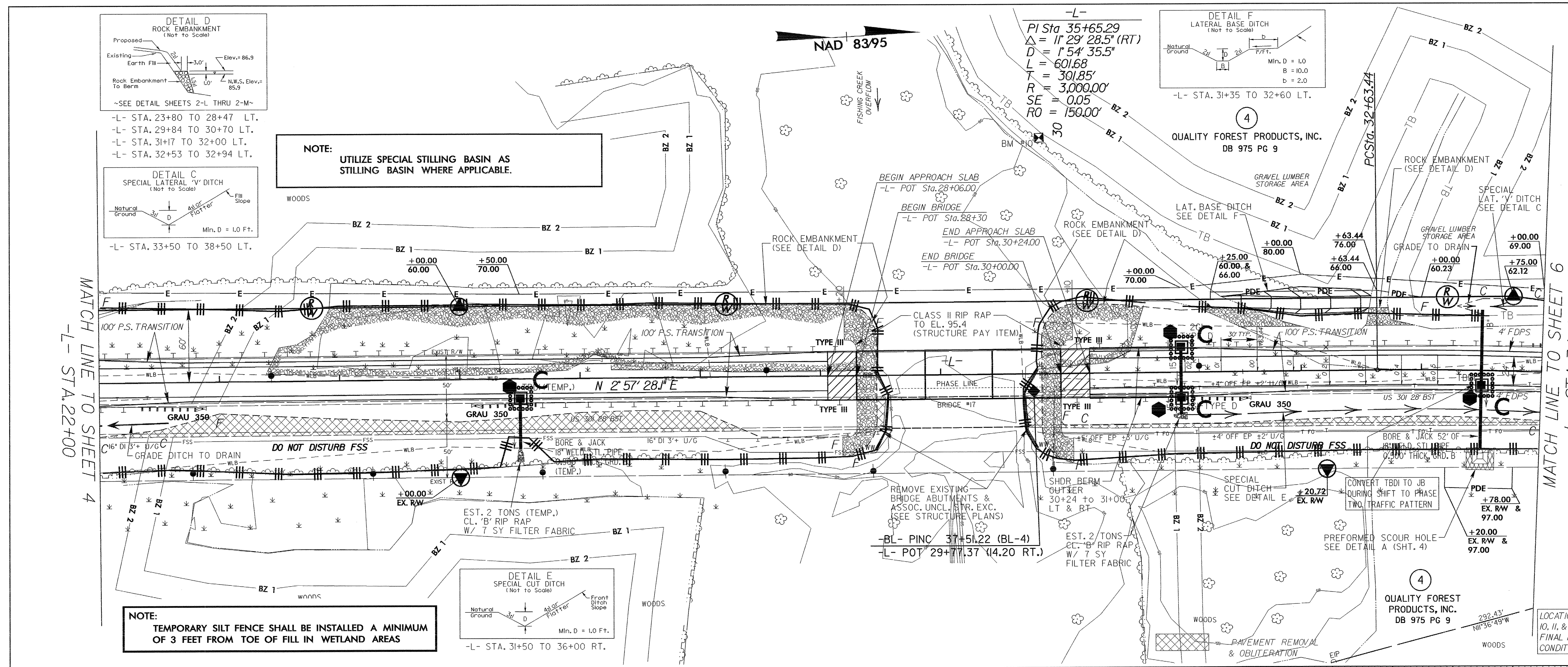
ROBERT N. WHITAKER  
DB 972 PG 376

LOCATIONS AND ELEVATIONS OF TEMPORARY D/S NUMBERED 10, 11, & 12 SHOWN FOR INFORMATIONAL PURPOSES ONLY. FINAL PLACEMENT WILL BE ADJUSTED TO MEET FIELD CONDITIONS AS DIRECTED BY THE ENGINEER.

REINFORCED BRIDGE APPROACH FILLS REQUIRED AT BOTH END BENTS. SEE DETAIL SHEETS 2-A THRU 2-B.  
SEE SHEETS S-1 THRU S- FOR STRUCTURE PLANS

QUALITY FOREST PRODUCTS, INC.  
DB 975 PG 9  
-BL- PINC 28+81.97 (BL-3)  
-L- ROT 21+08.12 (14.25 RT.)







PROJECT REFERENCE NO.	SHEET NO.
B-3453	EC-9/CONST.6
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

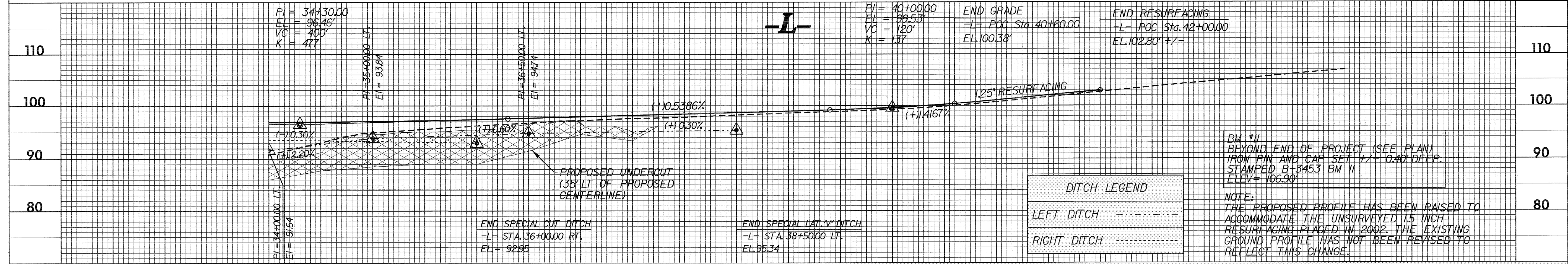
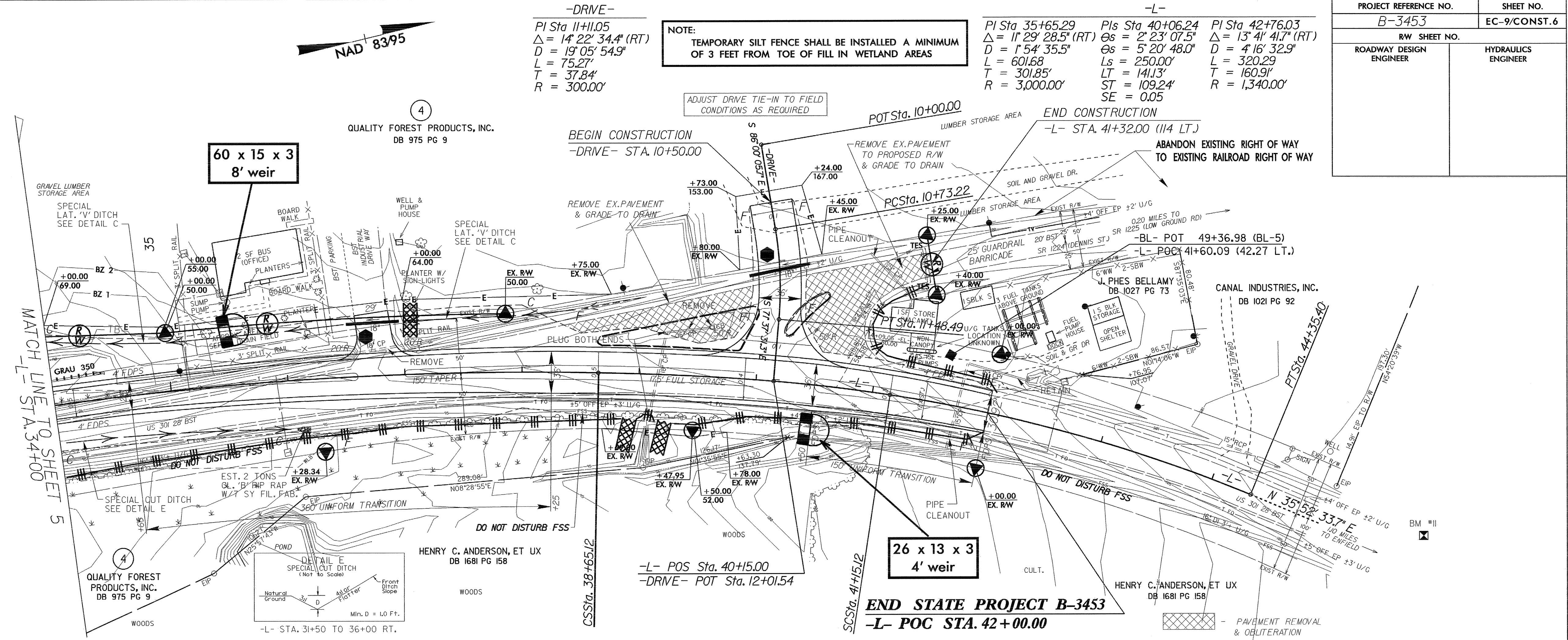
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 $L_s = 250.00'$   
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 $ST = 109.24'$   
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PI Sta 42+76.03  
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 TEMPORARY SILT FENCE SHALL BE INSTALLED A MINIMUM OF 3 FEET FROM TOE OF FILL IN WETLAND AREAS



DITCH LEGEND

LEFT DITCH	---
RIGHT DITCH	----

BM #11 BEYOND END OF PROJECT (SEE PLAN) IRON PIN AND CAP SET 1/2" 0.40' DEEP. STAMPED B-3453 BM #11 ELEV = 106.90'

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