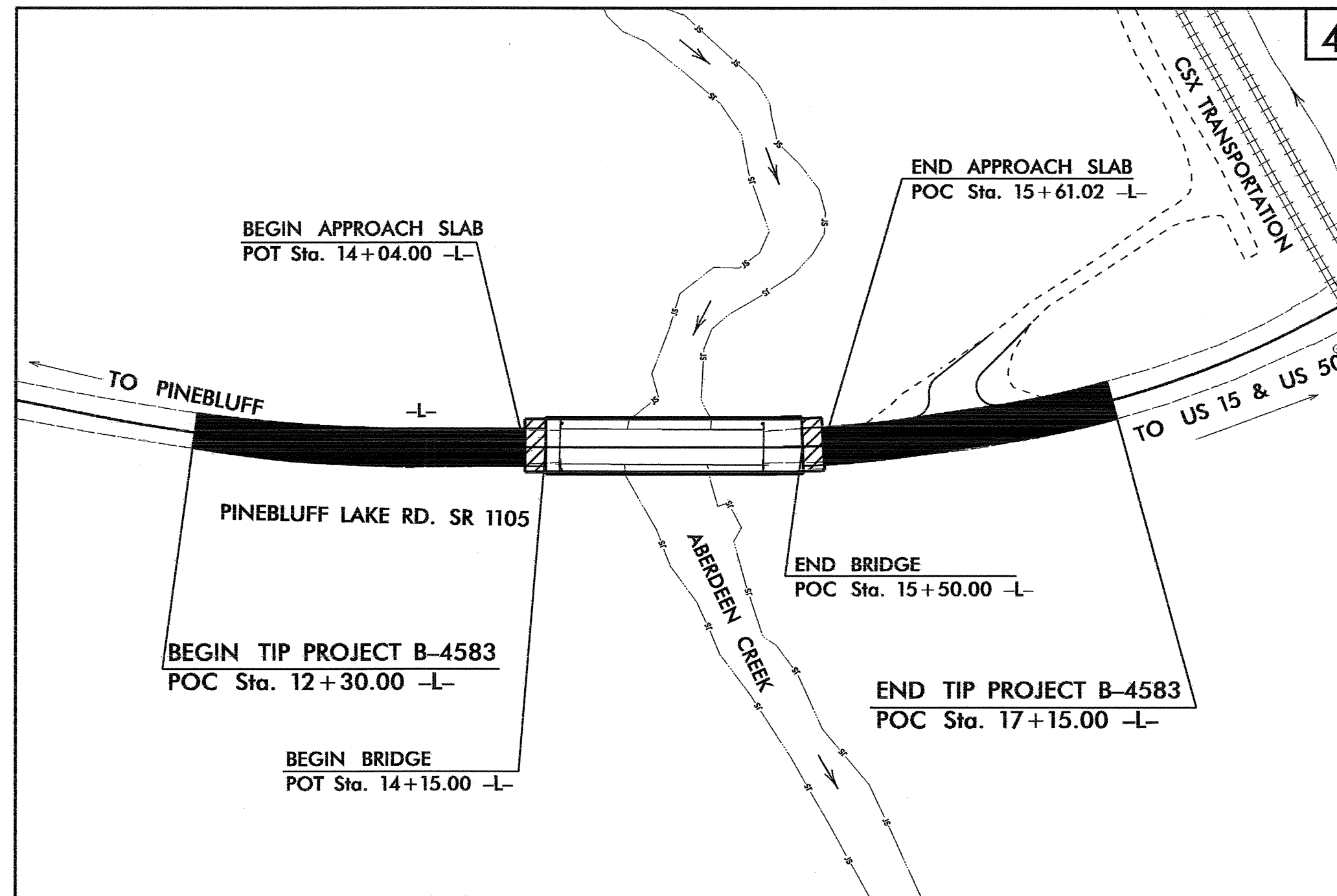
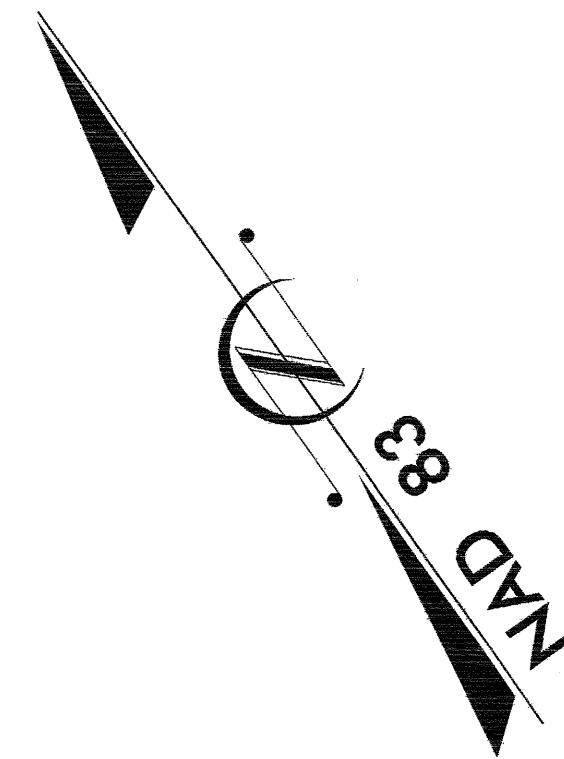


TIP PROJECT: B-4583

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

LOCATION: BRIDGE NO. 176 OVER ABERDEEN CREEK ON SR 1105 (PINEBLUFF LAKE ROAD)
 TYPE OF WORK: GRADING, DRAINAGE, STRUCTURE, AND PAVING

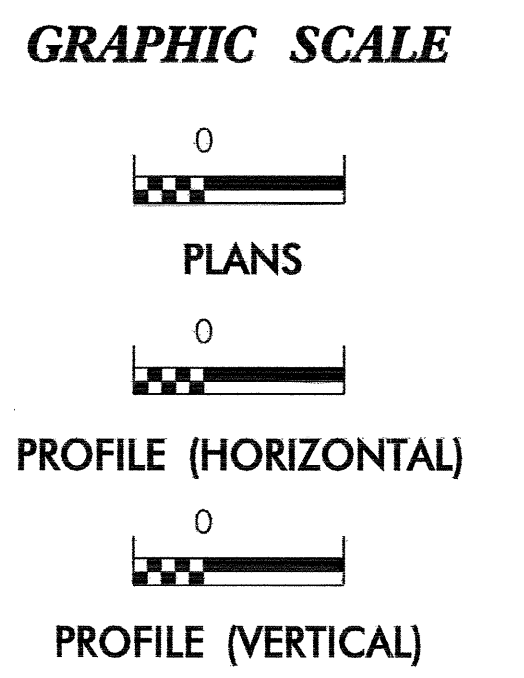


STATE	STATE PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.	B-4583	EC-1	
STATE PROJ. NO.	F.A. PROJ. NO.	DESCRIPTION	

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	▲▲▲▲▲▲▲▲▲▲
1622.01	Temporary Berms and Slope Drains	T
	Silt Basin Type B	▨
1653.01	Temporary Rock Silt Check Type-A	▨
	Temporary Rock Silt Check Type-A with Matting and Polyacrylamide (PAM)	▨
	Temporary Rock Silt Check Type-B	▶
	Wattle	⤿
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.



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

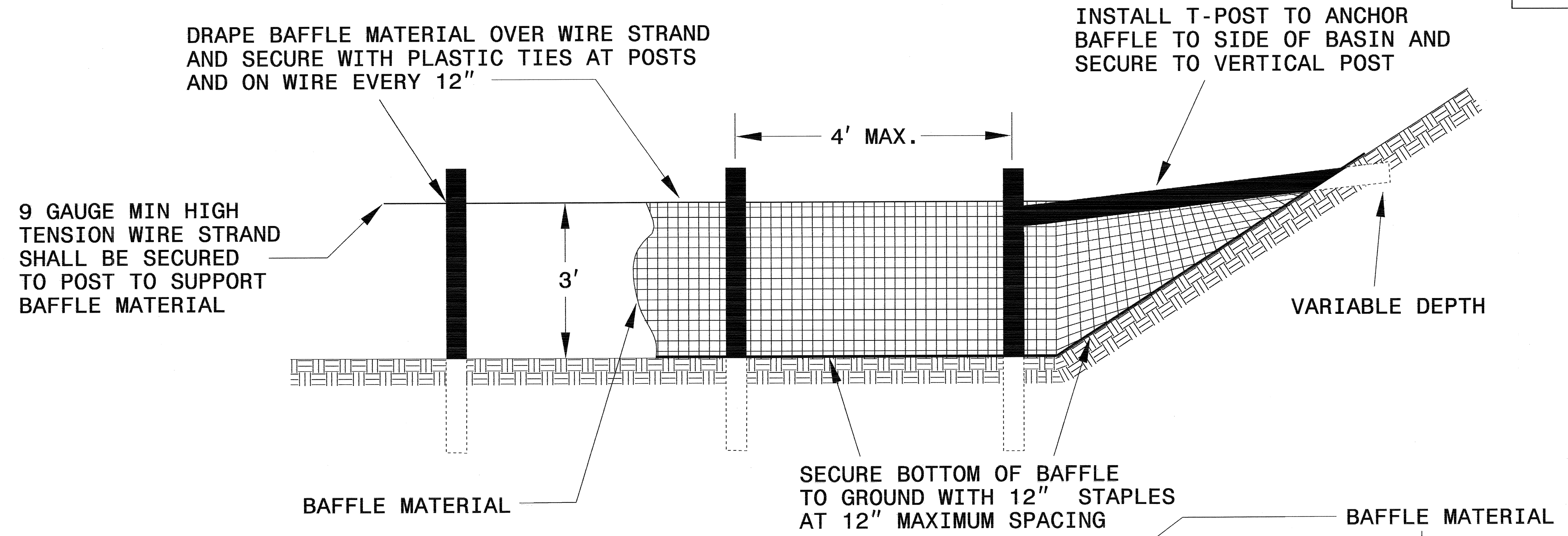
The following roadway english standards as appear in "Roadway Standard Drawings"- Roadway Design Unit - N. C. Department of Transportation - Raleigh, N. C., dated July 18, 2006 and the latest revision thereto are applicable to this project and by reference hereby are considered a part of these plans.

1605.01 Temporary Silt Fence	1632.03 Rock Inlet Sediment Trap Type C
1606.01 Special Sediment Control Fence	1634.02 Temporary Rock Sediment Dam Type B
1607.01 Gravel Construction Entrance	1635.02 Rock Pipe Inlet Sediment Trap Type B
1622.01 Temporary Berms and Slope Drains	

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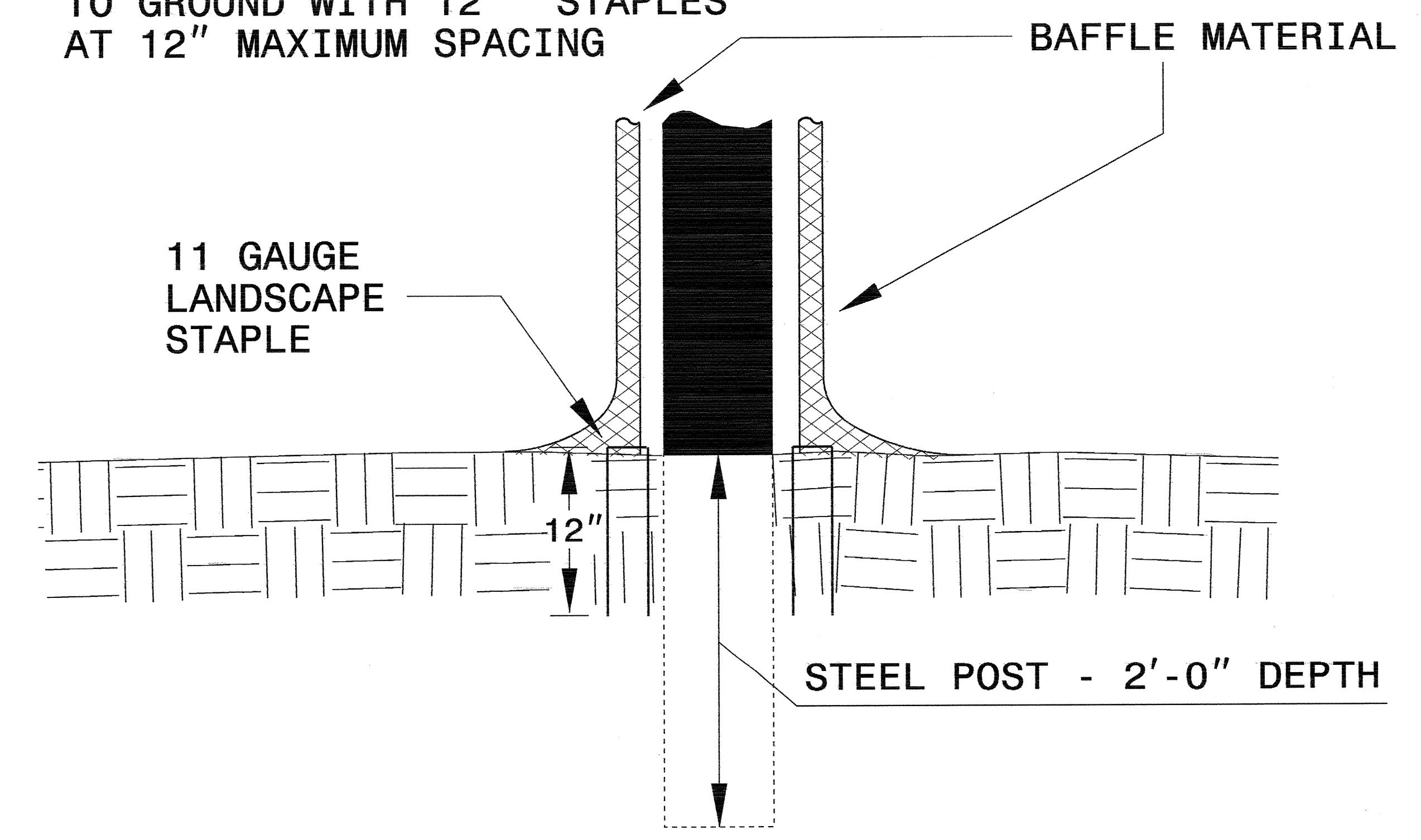
PROJECT REFERENCE NO. B-4583	SHEET NO. EC-2
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

COIR FIBER BAFFLE DETAIL



NOTES:

1. INSTALL THREE(3) COIR FIBER BAFFLES IN SILT BASINS AND SEDIMENT DAMS AT DRAINAGE OUTLETS WITH A SPACING OF $\frac{1}{4}$ THE BASIN LENGTH.
2. TWO(2) COIR FIBER BAFFLES CAN BE INSTALLED IN SILT BASINS AND DAMS LESS THAN 20 FT. IN LENGTH WITH A SPACING OF $\frac{1}{3}$ THE BASIN LENGTH.
3. TOP HEIGHT OF COIR FIBER BAFFLES SHALL NOT BE BELOW BASE OF EMERGENCY SPILLWAY ELEVATION.

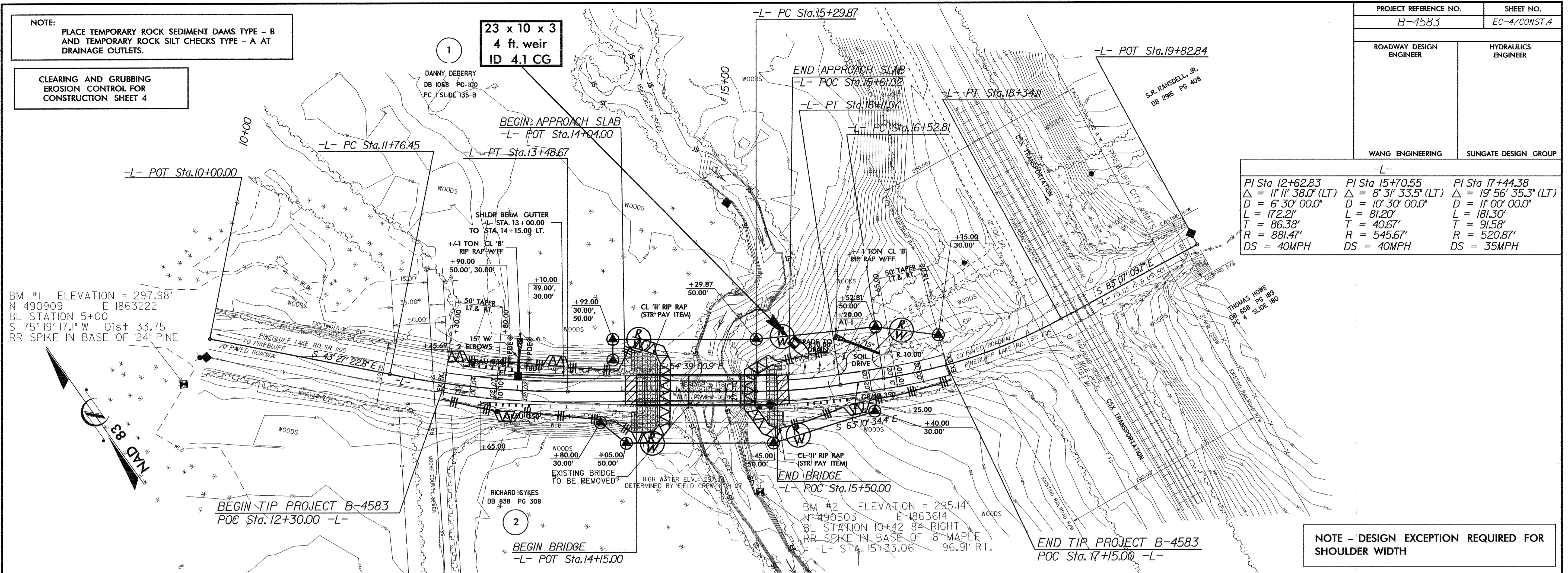


BAFFLE MATERIAL SHALL BE SECURED TO THE BOTTOM AND SIDES OF BASIN USING 12" LANDSCAPE STAPLES

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 4

23 x 10 x 3
4 ft. weir
ID 4.1 CG



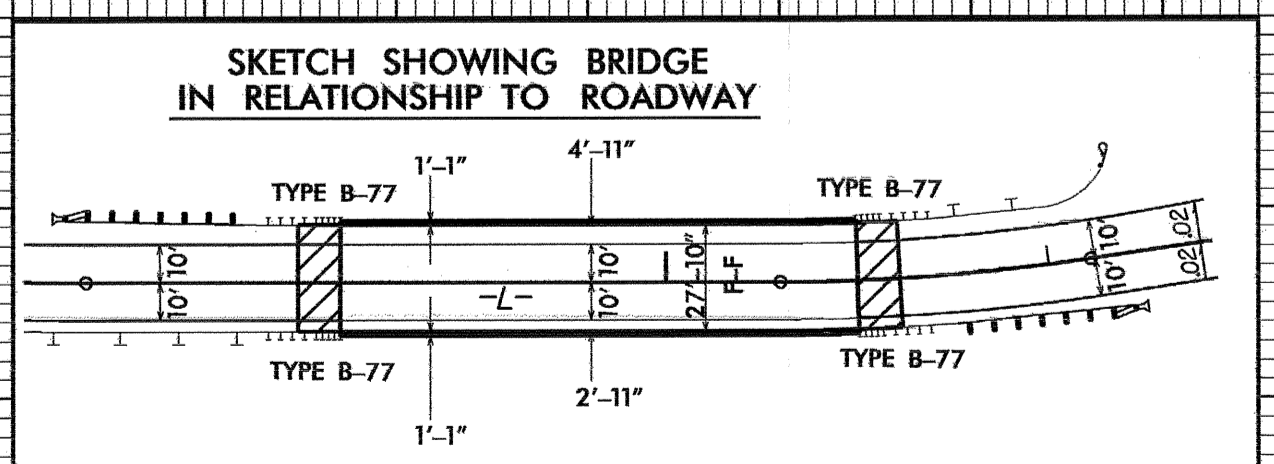
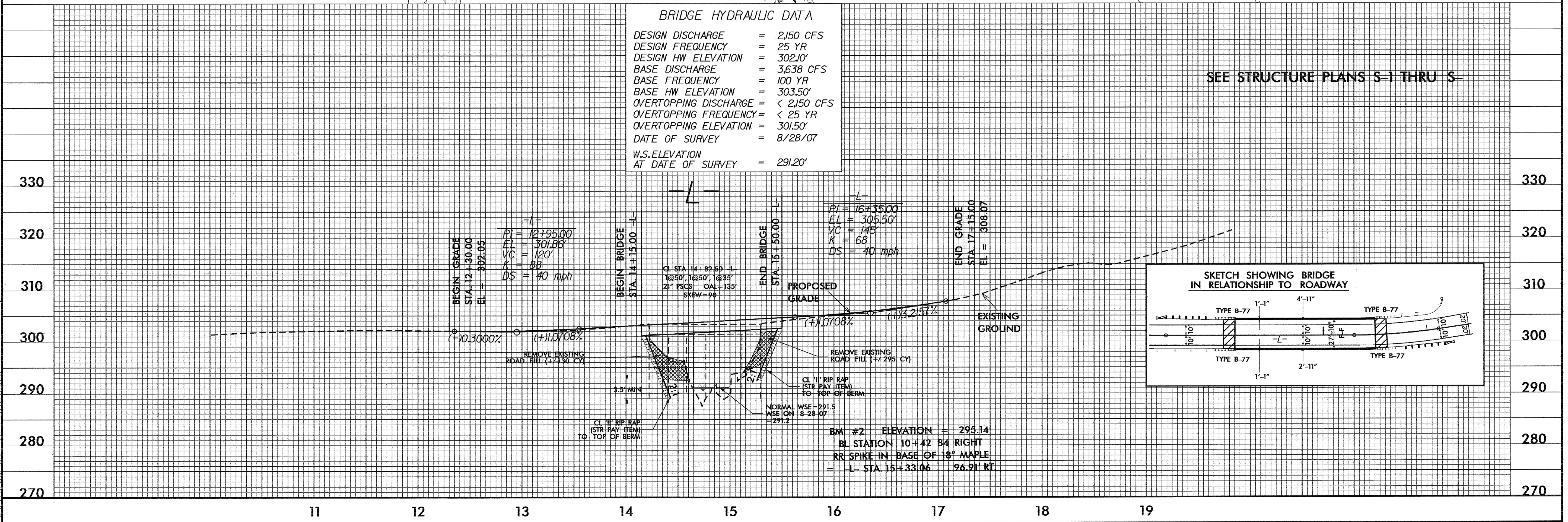
-L-		
PI Sta 12+62.83 Δ = 1° 11' 38.0" (LT) D = 6' 30" 00.0" L = 172.21' T = 86.38' R = 881.47' DS = 40MPH	PI Sta 15+70.55 Δ = 8' 31' 33.5" (LT) D = 10' 30" 00.0" L = 81.20' T = 40.67' R = 545.67' DS = 40MPH	PI Sta 17+44.38 Δ = 19' 56' 35.3" (LT) D = 1' 00" 00.0" L = 181.30' T = 91.58' R = 520.87' DS = 35MPH

NOTE - DESIGN EXCEPTION REQUIRED FOR SHOULDER WIDTH

BRIDGE HYDRAULIC DATA

DESIGN DISCHARGE	= 2,150 CFS
DESIGN FREQUENCY	= 25 YR
DESIGN HW ELEVATION	= 302.0'
BASE DISCHARGE	= 3,638 CFS
BASE FREQUENCY	= 100 YR
BASE HW ELEVATION	= 303.50'
OVERTOPPING DISCHARGE	= < 2,150 CFS
OVERTOPPING FREQUENCY	= < 25 YR
OVERTOPPING ELEVATION	= 301.50'
DATE OF SURVEY	= 8/28/07
W.S. ELEVATION AT DATE OF SURVEY	= 291.20'

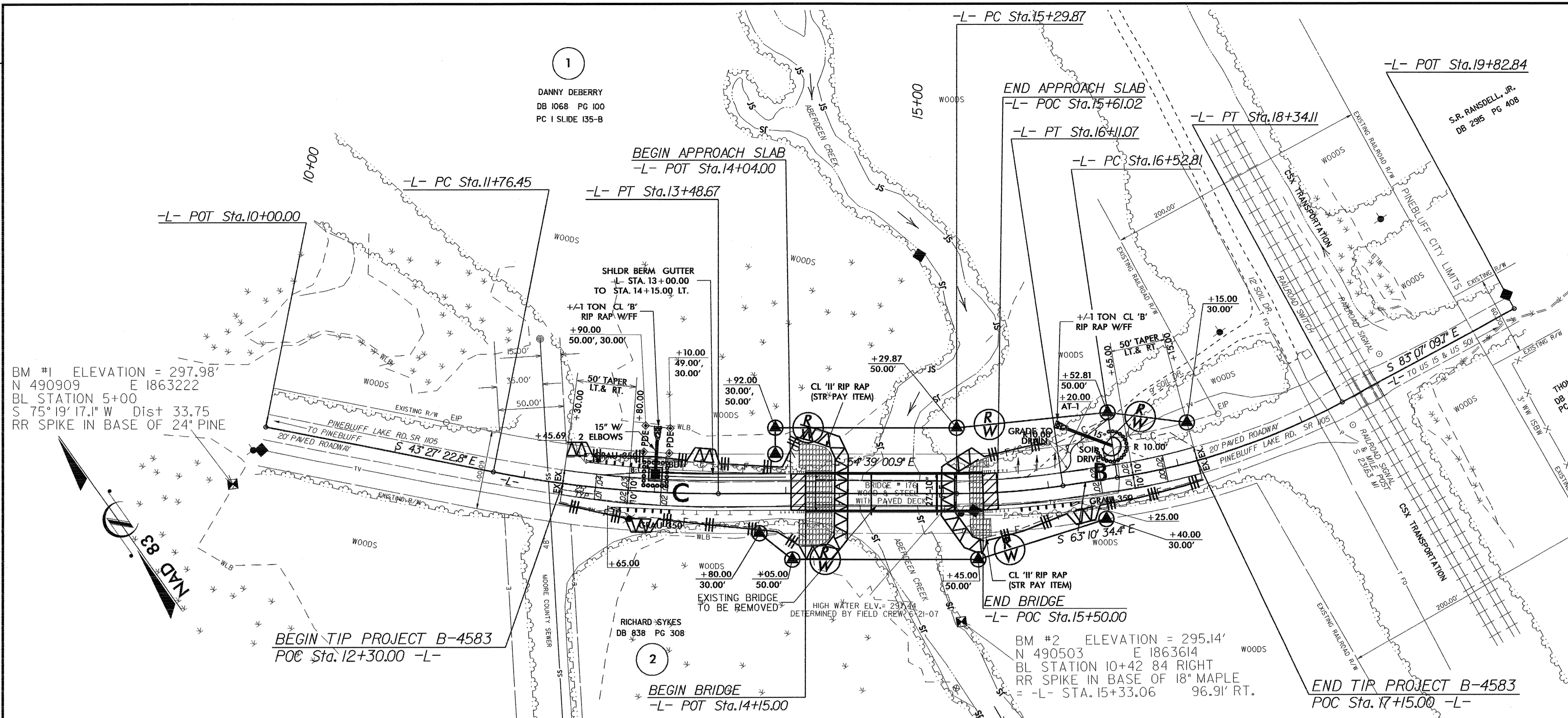
SEE STRUCTURE PLANS S-1 THRU S-



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PROJECT REFERENCE NO.	SHEET NO.
B-4583	EC-5/CONST.4
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
WANG ENGINEERING	SUNGATE DESIGN GROUP

-L-		
PI Sta 12+62.83	PI Sta 15+70.55	PI Sta 17+44.38
$\Delta = 11' 11" 38.0" (LT)$	$\Delta = 8' 31" 33.5" (LT)$	$\Delta = 19' 56" 35.3" (LT)$
D = 6' 30' 00.0"	D = 10' 30' 00.0"	D = 11' 00' 00.0"
L = 172.21'	L = 81.20'	L = 181.30'
T = 86.38'	T = 40.67'	T = 91.58'
R = 881.47'	R = 545.67'	R = 520.87'
DS = 40MPH	DS = 40MPH	DS = 35MPH



BM #1 ELEVATION = 297.98'
 N 490909 E 1863222
 BL STATION 5+00
 S 75° 19' 17.1" W Dist 33.75
 RR SPIKE IN BASE OF 24" PINE

BEGIN TIP PROJECT B-4583
 POC Sta. 12+30.00 -L-

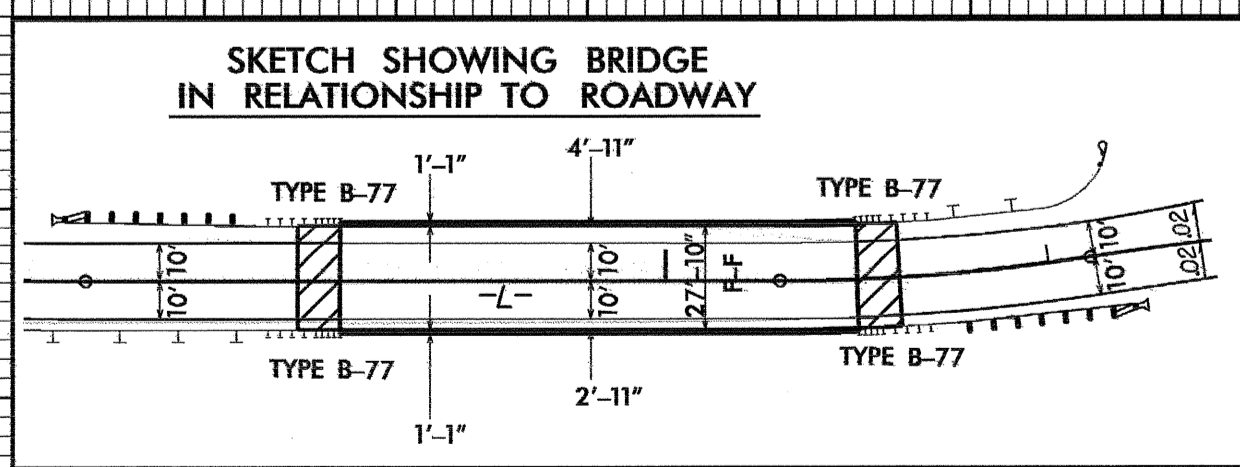
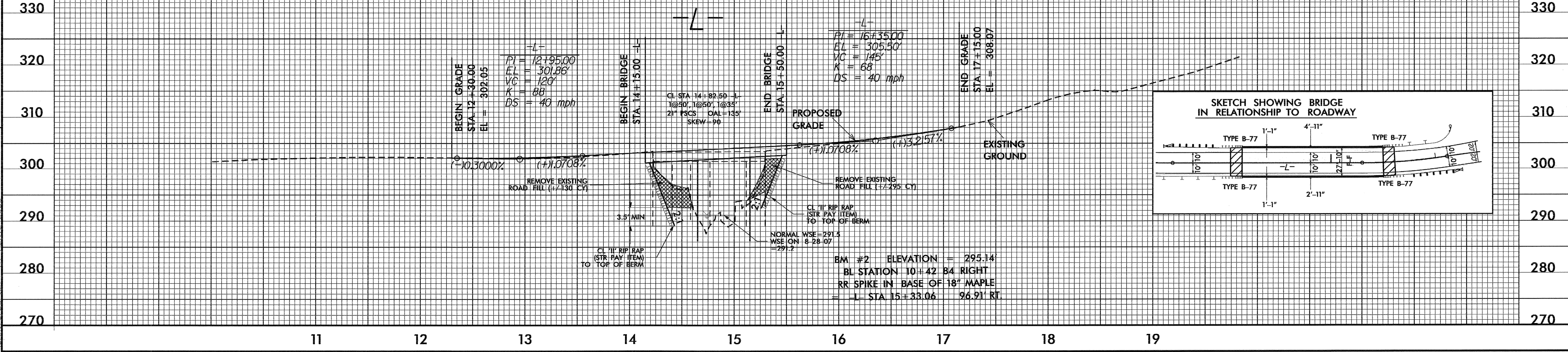
BEGIN BRIDGE
 -L- POT Sta. 14+15.00

END TIP PROJECT B-4583
 POC Sta. 17+15.00 -L-

NOTE - DESIGN EXCEPTION REQUIRED FOR
 SHOULDER WIDTH

BRIDGE HYDRAULIC DATA	
DESIGN DISCHARGE	= 2,150 CFS
DESIGN FREQUENCY	= 25 YR
DESIGN HW ELEVATION	= 302.0'
BASE DISCHARGE	= 3,638 CFS
BASE FREQUENCY	= 100 YR
BASE HW ELEVATION	= 303.50'
OVERTOPPING DISCHARGE	= < 2,150 CFS
OVERTOPPING FREQUENCY	= < 25 YR
OVERTOPPING ELEVATION	= 301.50'
DATE OF SURVEY	= 8/28/07
W.S. ELEVATION AT DATE OF SURVEY	= 291.20'

SEE STRUCTURE PLANS S-1 THRU S-



BM #2 ELEVATION = 295.14'
 N 490503 E 1863614
 BL STATION 10+42.84 RIGHT
 RR SPIKE IN BASE OF 18" MAPLE
 = -L- STA. 15+33.06 96.91' RT.

REVISIONS

8/17/09

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