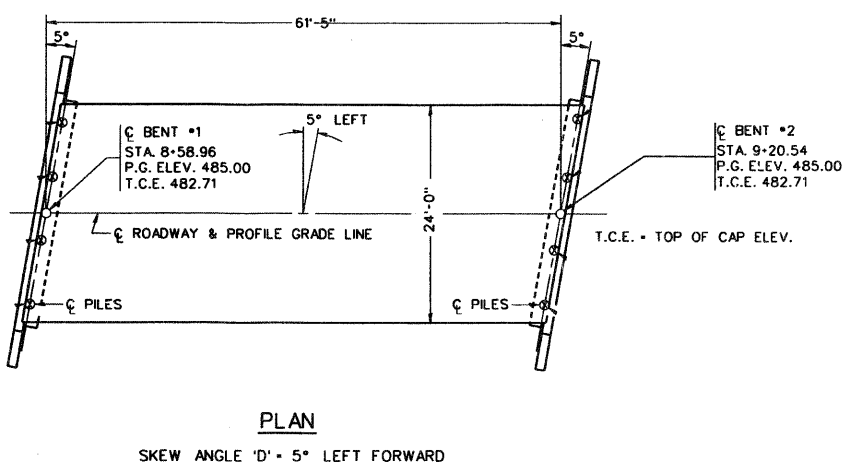
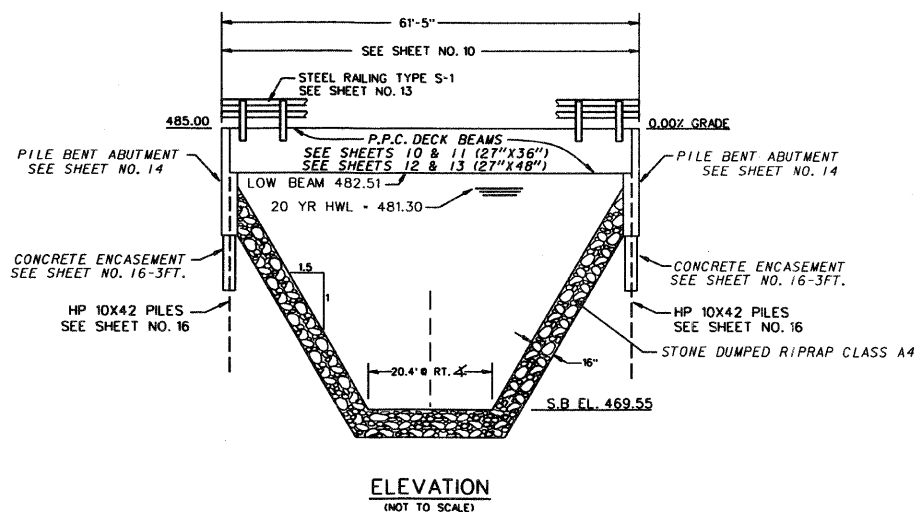


ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NUMBER
T.R. 126	06-01188-00-BR	UNION	17	9
JOB NO. C-99-506-08		PROJECT NO. BROS-181 (042)		
SPANISH BLUFF ROAD		CONTRACT NO. 99337		

B.M - 2-60d NAILS SET IN WEST SIDE FENCE CORNER POST ± 110' SOUTHEAST OF MAILBOX #1340 EAST SIDE OF ROAD & ± 350' NORTH OF BRIDGE & ± 15' SOUTH OF C OF SOUTH MOST ASPHALT DRIVE.

EXISTING STRUCTURE — STA. 9+84.50 TO 10+15.5, 31' SPAN, 16' WIDTH. STEEL BEAMS WITH TIMBER DECK. TIMBER PILING WITH ONE TIMBER ABUTMENT AND ONE STONE ABUTMENT.

SALVAGE — STEEL I BEAMS TO BECOME PROPERTY OF UNION COUNTY HIGHWAY DEPARTMENT.



GENERAL NOTES

1. THE CONTRACTOR SHALL DRIVE 1 TEST PILES, AS SPECIFIED, IN A PERMANENT LOCATION AS DIRECTED BY THE ENGINEER BEFORE ORDERING THE REMAINING PILES.
2. SEE SHEET 17 FOR BORING LOGS.
3. AFTER DECK BEAMS HAVE BEEN SET, THE DECK SURFACE SHALL BE INSPECTED. A WATERPROOFING MEMBRANE SYSTEM AND A BITUMINOUS CONCRETE WEARING SURFACE MAY BE REQUIRED TO PROVIDE A SMOOTH UNIFORM RIDING SURFACE. PAYMENT FOR THIS WORK, IF REQUIRED, WILL BE MADE BY A CHANGE ORDER TO THE CONTRACT.

TOTAL BILL OF MATERIAL

ITEM	UNIT	SUPER	SUB.		TOTAL
			PIERS	ABUTS	
REMOVAL OF EXISTING STRUCTURES	EACH				1
STONE DUMPED RIP-RAP, CLASS A-4	TON				1,350
CONCRETE STRUCTURES	CU. YD.			18.2	18.2
PRECAST PRESTRESSED CONCRETE DECK BEAMS (27" DEPTH)	SQ. FT.	1440			1440
STEEL RAILING, TYPE S-1	FOOT	120			120
REINFORCEMENT BARS	POUND			2,300	2,300
FURNISHING STEEL PILES HP10X42	FOOT			154	154
DRIVING STEEL PILES	FOOT			154	154
TEST PILE HP10X42	EACH			1	1
NAME PLATES	EACH	1			1
CONCRETE ENCASUREMENT	CU. YD.			2.1	2.1

INDEX OF SHEETS

- 9 GENERAL PLAN AND ELEVATION
- 10 27" X 36" PPC DECK BEAM
- 11 27" X 36" PPC DECK BEAM DETAILS
- 12 27" X 48" PPC DECK BEAM
- 13 27" X 48" PPC DECK BEAM DETAILS
- 14 PPC DECK BEAM - PILE BENT ABUTMENT
- 15 STEEL RAILING, TYPE S1 AND CURLED END SECTION DETAILS
- 16 HP PILE DETAILS
- 17 NAME PLATE AND SOIL BORING LOGS

PILE NOTES

1. THE STEEL H-PILES SHALL BE ACCORDING TO AASHTO M 270 GRADE 50.
2. THE TEST PILES SHALL BE DRIVEN TO 10 PERCENT OF THE NOMINAL REQUIRED BEARING INDICATED IN THE PILE DATA INFORMATION.

PILE DATA (2-ABUTS.)

TYPE: STEEL HP 10X42
 NOMINAL REQUIRED BEARING: 333 KIPS
 ALLOWABLE RESISTANCE AVAILABLE: 111 KIPS.
 ESTIMATED LENGTH: 22 FEET EACH.
 NUMBER REQUIRED: 8 (INCLUDES 1 TEST PILE IN ABUTMENT*1)

SEISMIC DATA

SEISMIC PERFORMANCE ZONE (SPZ) - 4
 DESIGN SPECTRAL ACCELERATION AT 1.0 SEC (S₀₁) - 0.60
 DESIGN SPECTRAL ACCELERATION AT 0.2 SEC (S₀₅) - 2.14
 SITE SOIL CLASS - C

LOADING HL93

ALLOW 50*/SQ. FT. FOR FUTURE WEARING SURFACE.

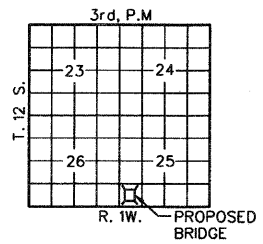
DESIGN SPECIFICATIONS

LRFD BRIDGE DESIGN SPECIFICATIONS 4TH EDITION, 2010

UNNAMED TRIBUTARY TO CACHE RIVER
 SEC.06-01188-00-BR BUILT 20__
 TR-126-SPANISH BLUFF ROAD
 UNION COUNTY
 LOADING HL93
 STR. NO. 091-3231

LETTERING FOR NAME PLATE

LOCATE NAME PLATE AT NORTHEAST CORNER OF BRIDGE (SEE SHEET NO. 15)



WATERWAY INFORMATION

DRAINAGE AREA - 3.76 SQ. MI. LOW GRADE ELEV. - 480.48 @ STA. 11+50

FLOOD	FREQ.	Q	OPENING	SQ. FT.	NAT.	HEAD - FT.	HEADWATER EL.
	YR.	C.F.S.	EXIST.	PROP.	H.W.E	EXIST	PROP
DESIGN	20	1602	291	424	481.05	0.26	0.25 481.31 481.30
BASE	100	2346	291	516	482.29	0.60	0.24 482.89 482.53
OVERTOPPING							
MAX. CALC.	500	3052					

STRUCTURAL CERTIFICATION

I CERTIFY THAT TO THE BEST OF MY KNOWLEDGE, INFORMATION AND BELIEF, THE REVISED STANDARD DETAIL SHEETS AND/OR SPECIAL COMPONENT SHEETS INCLUDED WITH THE STANDARD BRIDGE DETAIL SHEETS ARE STRUCTURALLY ADEQUATE FOR THE DESIGN LOADING SHOWN ON THE PLANS AND COMPLY WITH THE REQUIREMENTS OF THE CURRENT AASHTO STANDARD SPECIFICATIONS FOR HIGHWAY BRIDGES.

9/1/11
 DATE
 ZEVN UZMAN
 S.E. #81-4749
 EXPIRES NOV. 30, 2016
 (SEAL)

GENERAL PLAN & ELEVATION

TR 126-SPANISH BLUFF ROAD
 OVER TRIBUTARY TO CACHE RIVER

SECTION 06-01188-00-BR

STATION UNION COUNTY
 8+89.75