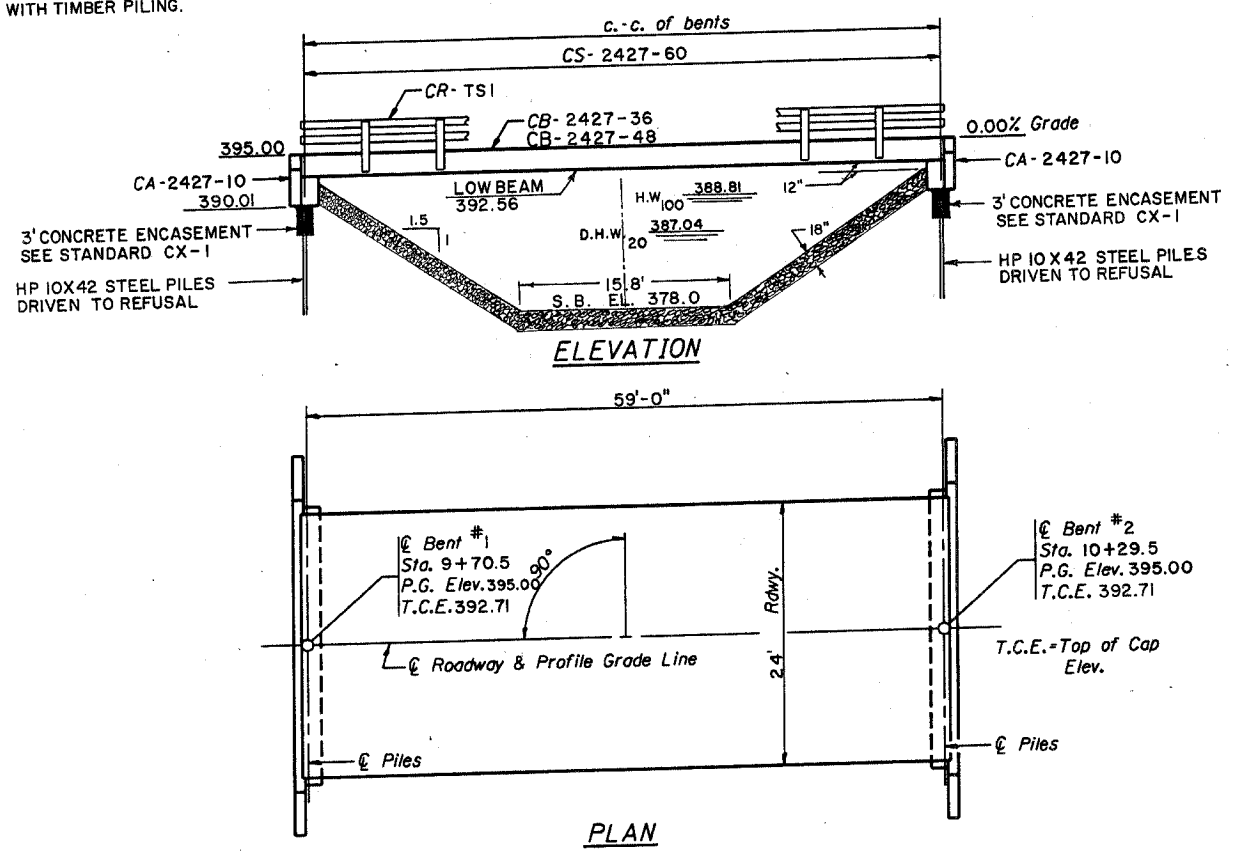


ROUTE	SECTION	COUNTY	TOWNSHIP	TOTAL SHEETS	SHEET NUMBER
T.R. 319	05-13136-00-BR	JACKSON	SEC. 3, T10S, R2W	16	7
JOB NO. C-99-550-05			PROJECT NO. BROS-077(43)		
ETHERTON ROAD			CONTRACT NO. 99249		

B.M. "□" CUT ON THE NORTHEAST CORNER HEADWALL OF BRIDGE JUST WEST OF IL. ROUTE 127 AT ETHERTON ROAD AND SUGAR CREEK. ELEV. - 397.43

Existing Structure- CONCRETE DECK, STEEL RAILING, STEEL BEAMS ON CONCRETE ABUTMENTS WITH TIMBER PILING.

Salvage- NONE



GENERAL NOTES

1. The Contractor shall drive 2 test piles, as specified, in a permanent location as directed by the Engineer before ordering the remaining piles.
2. See Special Provisions for boring logs.
3. A Corrosion inhibitor, as covered in the Special Provisions, shall be used in the concrete for precast prestressed concrete deck beams.
4. 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-5	TON				750
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			2300	2300
Furnishing STEEL PILES HP 10X42	Foot			450	450
Driving PILES	Foot			450	450
Test Pile STEEL HP 10X42	Each			2	2
Name Plate	Each	1			1
Concrete Encasement	Cu. Yd.			2.1	2.1

PILING NOTES

1. THE STEEL H-PILES SHALL BE ACCORDING TO AASHTO M270 GRADE 50.
2. THE TEST PILES SHALL BE DRIVEN TO 110 PERCENT OF THE NOMINAL REQUIRED BEARING INDICATED IN THE PILE DATA INFORMATION.

DESIGN SPECIFICATIONS

2002 AASHTO Standard Specifications - 17th ed.

LOADING HS20-44

Allow 25#/sq. ft. for future wearing surface.

SEISMIC DATA

Seismic Performance Category (SPC) = B
Bedrock Acceleration Coefficient (A) = 0.14
Site Coefficient (S) = 1.0

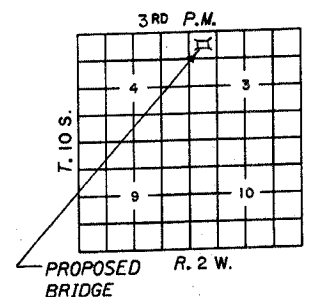
PILE DATA (2-ABUTS.)

Type: HP 10X42 STEEL PILES - NOMINAL REQUIRED BEARING: 334 KIPS, ALLOWABLE RESISTANCE AVAILABLE: 111 KIPS.
Estimated Length: 78' EACH PILE IN WEST ABUTMENT
72' EACH PILE IN EAST ABUTMENT
NO. REQUIRED: 8 (INCLUDES 2 TEST PILES, 1 LOCATED IN EACH BENT)

STATION 10+00
SUGAR CREEK
SEC. 05-13136-00-BR BUILT 2008
POMONA TOWNSHIP
JACKSON, COUNTY.
LOADING HS20
STR. NO. 039-3262

LETTERING FOR NAME PLATE

Locate Name Plate at NORTHEAST Corner of Bridge (See Std. CN)



LOCATION SKETCH

WATERWAY INFORMATION

Drainage Area = 3.12 SQ. MI.		Low Grade Elev. = 395.0		Sta. 8+50 TO 10+26.5		
Flood	Freq. Yr.	Q C.F.S.	Opening Sq. Ft.	Nat. H.W.E.	Head - Ft.	Headwater El.
		Exist.	Prop.	Exist.	Prop.	Exist.
Design	20	1892	290	265	386.93	0.82
Base	100	2817	380	346	388.68	0.03
Overtopping						
Max. Calc.	500	3710				

INDEX OF SHEETS

- STANDARD CS-2427-60
- STANDARD CB-2427-36
- STANDARD CB-2427-48
- STANDARD CA-2427-10
- STANDARD CR-TS1
- STANDARD CN
- STANDARD CX-1

GENERAL PLAN & ELEVATION

TR 319 - ETHERTON ROAD
OVER SUGAR CREEK
SECTION 05-13136-00-BR
JACKSON COUNTY
STATION 10+00