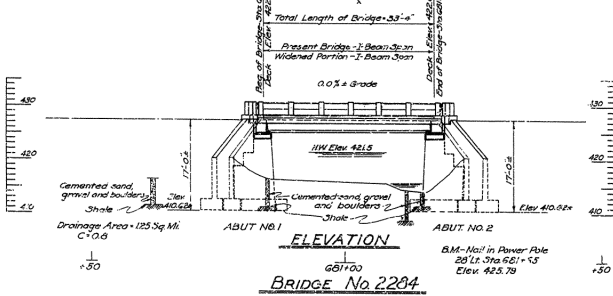
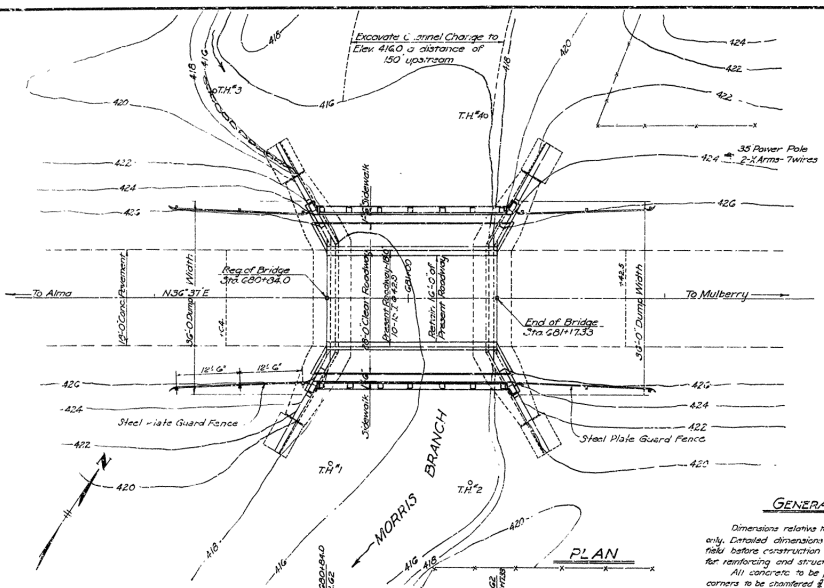


FILE NO.	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS
6	ARK.	4275	181	217
STATE JOB NO. 4275 181 217				

Private Entrance Private Road



**QUANTITIES FOR BRIDGE No. 2284**

ITEM NO.	ITEM	QUANTITY	UNIT
103	Dry Excavation for Structures	4.2	CU Yd
103	Wet Excavation for Structures	3.0	CU Yd
K-1	Solid Rock Excav. for Structures	3	CU Yd
3P4802	Class "A" Concrete for Bridges	17.3	CU Yd
3P4802	Class "S" Concrete for Bridges	15.0	CU Yd
805	Reinforcing Steel	1220	Lb
805-3	Steel Plate Guard Rail	36.2	Lf
807	Structural Steel in Beam Spans	3150	Lb
3P	Remodeling Existing Bridges and Maintaining Traffic	19%	Complete Item

**GENERAL NOTES**

Dimensions relative to present structures are general only. Detailed dimensions are to be secured and verified in field before construction is begun and before shop drawings for reinforcing and structural steel are made.

All concrete to be poured in the dry. All exposed corners to be chamfered unless otherwise noted.

Rock excavation shall be made to rest on firm material. Care shall be taken to avoid shortening of rock mass by excessive blasting.

In general all construction joints in new work of abutments shall be horizontal and shall be provided with keys not less than 2' deep and covering the middle third of both directions.

Reinforcing steel to be deformed bars of structural or intermediate grade. Shop lists and bending diagrams must be submitted and approved before fabrication is begun.

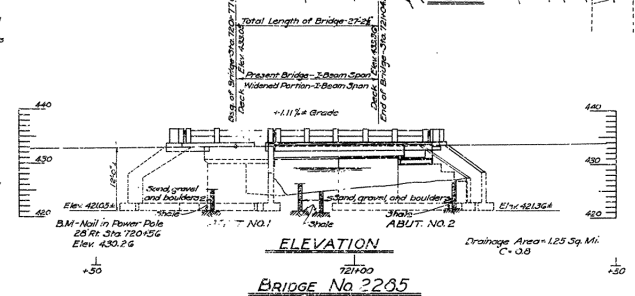
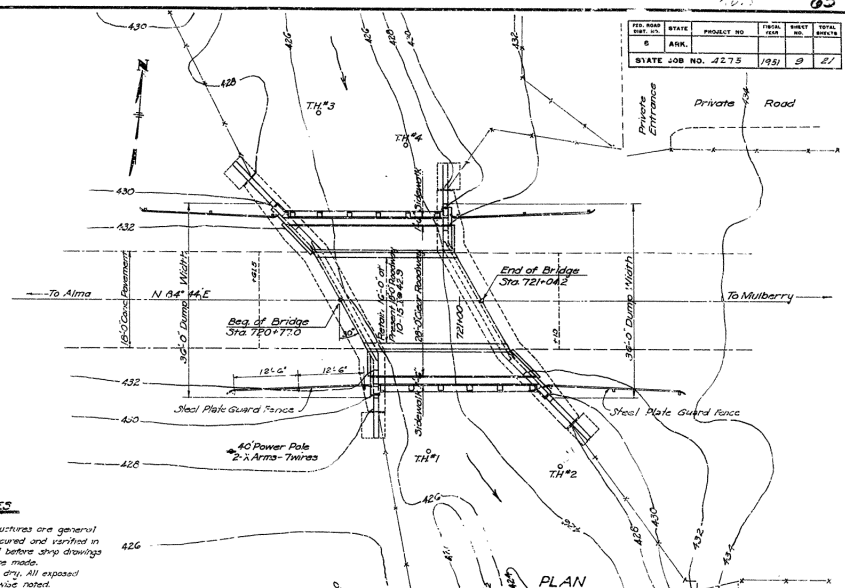
For details of Abutments No. 1 & 2 of Bridge No. 2284, see Drawing No. 7944.

For details of Superstructure of Bridge No. 2284, see Drawing No. 7945.

For details of Abutments No. 1 & 2 of Bridge No. 2285, see Drawing No. 7946.

For details of Superstructure of Bridge No. 2285, see Drawing No. 7947.

Specifications for Road and Bridge Construction, adopted March 1, 1940.

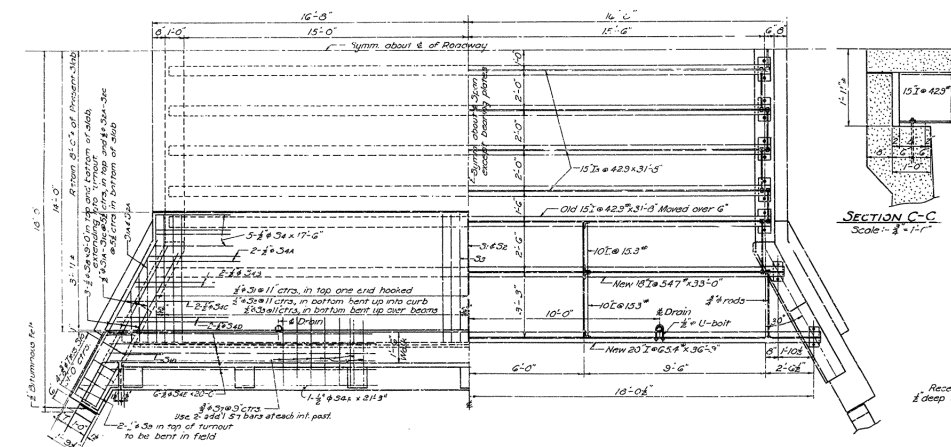


**QUANTITIES FOR BRIDGE No. 2285**

ITEM NO.	ITEM	QUANTITY	UNIT
103	Dry Excavation for Structures	3.4	CU Yd
103	Wet Excavation for Structures	2.1	CU Yd
103	Solid Rock Excav. for Structures	0.5	CU Yd
3P4802	Class "A" Concrete for Bridges	0.25	CU Yd
3P4802	Class "S" Concrete for Bridges	12.3	CU Yd
805	Reinforcing Steel	770	Lb
805-3	Steel Plate Guard Rail	70.4	Lf
806-01	Structural Steel in Beam Spans	7240	Lb
3P	Remodeling Existing Bridges and Maintaining Traffic	15%	Complete Item

**LAYOUT OF BRIDGES No. 2284 & 2285**  
**ALMA-MULBERRY ROAD**  
**CRAWFORD COUNTY**  
**ROUTE 64 SEC. 2**  
**ARKANSAS STATE HIGHWAY COMMISSION**  
**LITTLE ROCK, ARK.**  
 Drawn By: MCH Date: 6-12-42  
 Traced By: MCH Date: 6-22-42  
 Checked By: \_\_\_\_\_ Date: \_\_\_\_\_  
**BRIDGE No. 2284 & 2285 DRAWING No. 7943**

Revisions: Reiling; Quantities. H.B. 4-2-51.



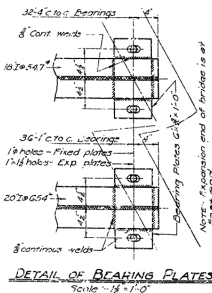
Provide for expansion by placing two layers of 3-ply roofing felt between slab and abutment backwall--

10' x 54"

2' x 1/2" Bearing Plate

1" x 6" Anchor Bolt

SECTION D-D  
Scale:- 2" = 1'-0"

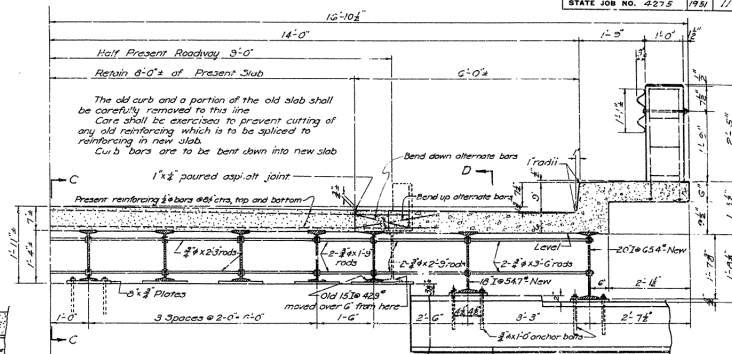


DETAIL OF BEARING PLATES  
Scale  $\frac{1}{8}'' = 1'-0''$

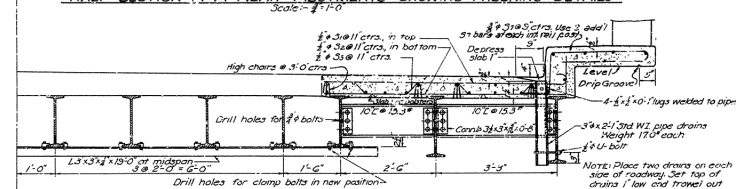
# SLAB BAR LIST

MAIN BAR	SUB	LENGTH	A	BENDING DIAGRAM
3	1	6'-3"	6'-3"	
3	1	6'-3"	6'-3"	
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3	1	6'-3"	6'-3"	

NOTE-Dimensions relating to steel are to center of bars.



HALF SECTION A-A NEAR ABUTMENTS SHOWING WIDENING DETAILS



HALF SECTION B-B  
Scale:-  $\frac{3}{8}'' = 1'-0''$

GENERAL NOTES

All concrete to be Class 30. All exposed corners to have 4 chamfers unless otherwise noted.

Reinforcing steel to be deformed bars of structural or intermediate grade. Shop lists and bending diagrams must be prepared and approved before fabrication is begun.

Reinforcing Bars: #4. Given holes #3. All field connections to be bolted, using #3 machine bolts.

All shop weld connections shall be made by the electric arc in accordance with AWS D1.1.

Plates shall be 1/2" thick unless otherwise specified. Plates shall be galvanized with red lead.

Payment for poured asphalt, joint, roofing felt, and bituminous felt to be included in the unit price for concrete.

Dimensions relative to present structure are general only. Detailed dimensions are to be secured and/or verified in the field before shop drawings are made and before construction.

is begun.  
 3. Shoring: All structural steel and wrough iron drains shall be given one coat of red lead and two almost oil based aluminum chloride paints in contact with concrete.  
Field Paint: 1st coat, white lead flaked with lamp black; 2nd coat, aluminum paint.  
 This drawing shows general features of design only. Shop drawings for structural steel shall be made in accordance with specifications and shall be submitted and approved prior to fabrication is begun.  
Payment for cutting off old concrete, curbs and portion of slab cutting off present steel handrail, removing and resetting old outside beams, drilling holes for new steel beams, drilling holes for new steel reinforcement, setting new steel reinforcement, setting new structural steel, cleaning and painting old structural steel, including notes in Lump Sum bid for Repainting of Existing Bridge.  
 The cost for slab form and high chair shall be considered subsidiary to item 1.  
Reinforcing Steel.

*Reinforcing Steel.* SPECIFICATIONS: Arkansas State Highway Commission Standard Specifications for Road and Bridge Construction, adopted March 1, 1940.  
The steel plate guard rail shall be of the type shown or an equivalent rigid type as approved by the Engineer and shall be painted the same as structural steel. Guard rail paint, including costs, reinforcing steel and labor to be paid for as Steel Plate Guard Rail.

### DETAILS OF WIDENING OF SUPERSTRUCTURE

BRIDGE No. 2284 OVER MORRIS CREEK  
ALMA-MULBERRY ROAD  
CRAWFORD COUNTY  
ROUTE 64 SEC. 2

ARKANSAS STATE HIGHWAY COMMISSION

ARKANSAS STATE HIGHWAY COMMISSION  
LITTLE ROCK, ARK.

Drawn By: WCH Date: 2-20-42  
Traced By: MCH Date: 3-12-42

Checked By: \_\_\_\_\_ Date: \_\_\_\_\_  
BRIDGE No. 2284 DRAWING NO. 7945

[illegible]

DETAIL OF RIGHT HAND TURNOUT  
Left: hand turnout similar

DESIGN LIVE LOAD-H20 LOADING ASH.O. 194

Load distribution to 15 I-Beams: Dead Load: 205<sup>1</sup>/lin. ft.  
Live Load: 0.40/Wheels-30% Impact

Load distribution to 18 I-Beams: Dead Load: 225<sup>1</sup>/lin. ft.  
Live Load: 0.575/Wheels-30% Impact

Load distribution to 20 I-Beams: Dead Load: 200<sup>1</sup>/lin. ft.  
Live Load: 0.30/Wheels-30% Impact

UNIT STRESSES:-

STRESSES:-	
Class 3 Concrete (n=10)	1,000 $\text{kg}/\text{cm}^2$
Reinforcing Steel	18,000 $\text{kg}/\text{cm}^2$
Structural St. sl	18,000 $\text{kg}/\text{cm}^2$

Revisions: Railing and curb section-H. &amp; 4-2-5.

H. B. Garver