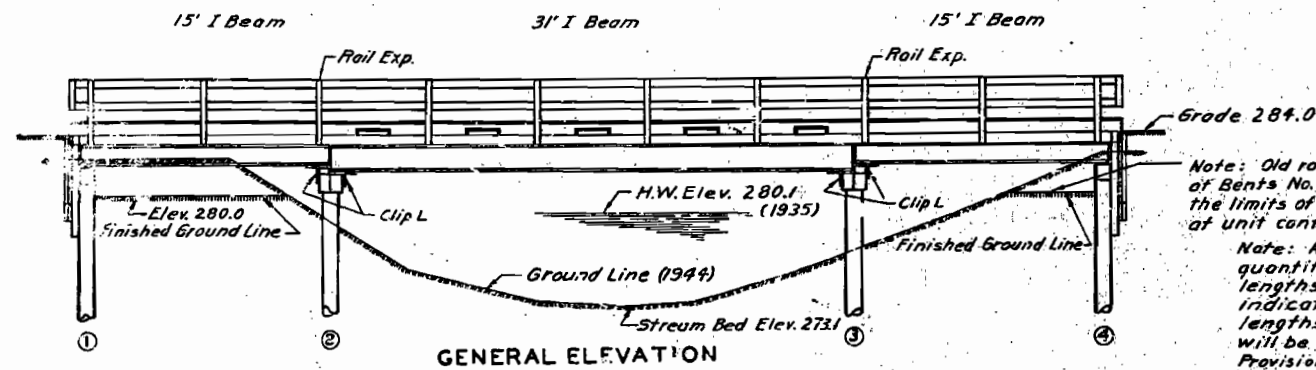


# MISSOURI STATE HIGHWAY DEPARTMENT

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
5	MO.	5-752 (4) (SD)	19		



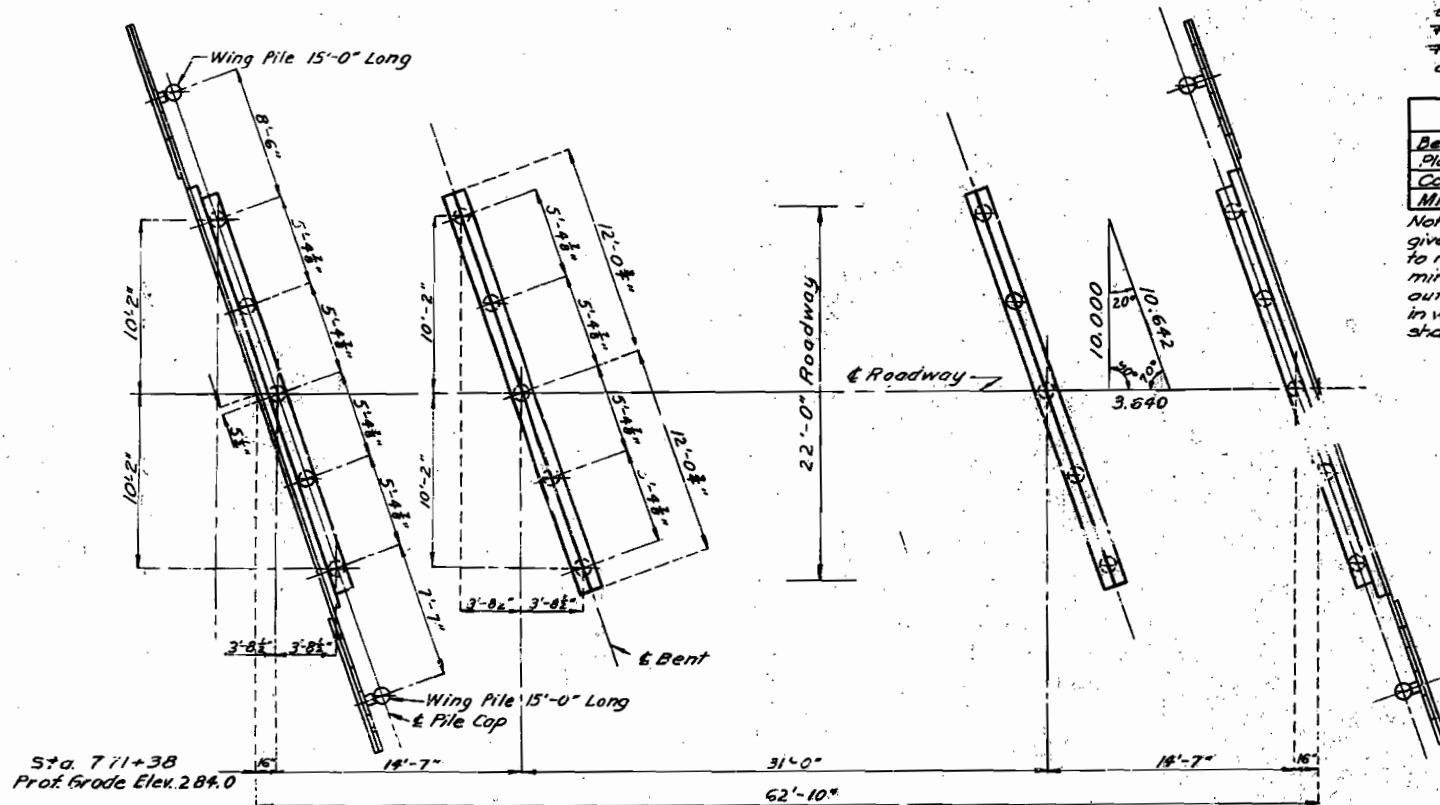
Note: Old roadway fill shall be removed to Elev. 280.0 at Bents No. 1 and 4. Payment for this excavation outside the limits of excavation for structure will be made at unit contract price for Roadway Excavation.

Note: All piling shall be creosoted timber. Estimated quantities shown on plans are based on the following lengths: 20' @ 30'-0" and 4' @ 15'-0". These indicated lengths are approximate only. Proper lengths to give required bearing and/or penetration will be authorized by the Engineer. See Special Provisions. ~~Allowing pile shall be driven to full penetration at lengths given on plans. All other pile shall be driven to full penetration at least 10 feet per pile and with a final test pile. One timber test pile shall be driven near Bent No. 2.~~

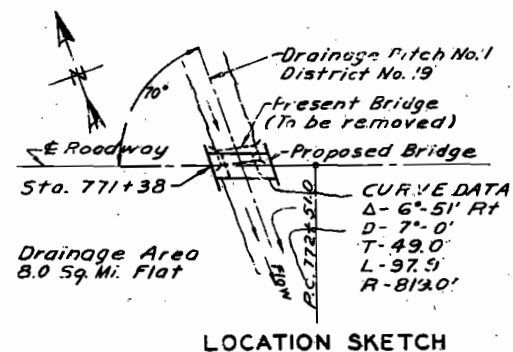
## DATA FOR PILE DRIVING

Bent No.	1	4
Plan Capacity Per Pile	14.0 Ton	16.7 Ton
Computed Capacity Read per Pile	9.3 Ton	14.0 Ton
Min. Penetration (Pile Tip Elev.)	255.0	255.0

Note: All wing pile shall be driven to full penetration of lengths given on plans. Piles other than wing piles shall be driven to not less than specified "Plan" capacities, and to the minimum penetrations noted; unless the pile lengths authorized and furnished fail to give "Plan" capacities in which cases not less than the "Computed" capacities shall be obtained.



## PLAN



## LOCATION SKETCH

BILL OF REINFORCING STEEL									
No.	Size	Length	Mark	Location	Bending Sketches & Cutting Diagrams				
104	6"	3'-0"	C1	Curb					
6	6"	15'-3"	C2	"					
6	6"	15'-0"	C3	"					
6	6"	30'-9"	C4	"					
72	4"	24'-3"	S1	Slab					
33	4"	26'-9"	S2	"					
90	4"	15'-3"	S3	"					
28	4"	31'-6"	S4	"					
52	6"	27'-9"	S5	"					
6	6"	26'-0"	S6	"					
45	6"	30'-0"	S7	"					

## GENERAL NOTES:

Design Specifications A. A. S. H. O. 1944.  
Loading H-15 A. A. S. H. O. 1944.  
Class "B" Concrete Stress 1,000  $\psi$ .  
Reinforcing Steel Stress 18,000  $\psi$ .  
Structural Steel Stress 18,000  $\psi$ .  
Creosoted Timber Stress 1,600  $\psi$ .  
All concrete shall be Class "B".  
All timber shall be creosoted and shall be 1600°F Douglas Fir or the West Coast Region or either Longleaf or Shortleaf 1500°F Southern Yellow Pine standard.  
All timber shall be ~~rough~~ sawn except as noted in timber bill for pile caps.  
All timber shall be cut to billed lengths and shapes and shall be bored as shown before treating. All backing plank are billed 6' long and are to be re-cut and fitted in the field.  
Rivets 3/4" holes 1/2" except in handrail where rivets shall be 5/8" holes 3/4". Field connections shall be riveted except as noted in handrail details.  
Where joint filler is specified on plans it shall conform with the requirements of Section 38-19A(10) of the Standard Specifications for Pre-molded Material for Filler.  
Paint: Shop, name; Field, contact surfaces of bolted field connections one coat of red lead and surfaces inaccessible after erection three coats of red lead. No other paint to be applied by the Contractor. Payment for cleaning and painting such surfaces will be included in unit price bid for Fabricated Structural Steel.

B.M. Elev. 282.03 N.W. in top North End Cap 100' Rt. Sta. 771+50.

## ESTIMATED QUANTITIES

Item	Substr.	Superstr.	Total
Class I Excavation for Structures	Cu. Yds.	90	90
Class B Concrete	Cu. Yds.	33.8	33.8
Reinforcing Steel	Lbs.	8930	8930
Fabricated Structural Steel (Sole Furnish)	Lbs.	3510	28200
Creosoted Timber	F.B.M.	345	345
Creosoted Timber Piles in Place	Lin. Ft.	588	588
Creosoted Timber Pile Cut-offs	Lin. Ft.	72	72
Timber Test Piles	Lin. Ft.	40	40

Note: Bridge excavation will be allowed for all bents within the horizontal limits shown and noted on bent details. This excavation will be computed from existing ground line to bottom end of 6" x 6" backing supports for end bents and to bottom of sway bracing for interior bents.  
All bridge excavation will be paid for as Class I Excavation for Structures.

BRIDGE OVER DR. DITCH NO. 1, DIST. NO. 19  
STATE ROAD FROM PARMA TO LILBOURN FINISHED  
ABOUT .5 MILE EAST OF CATRON  
PROJECT NO. 5-752 (4) (SD) STA. 771+38 FINISHED  
NEW MADRID COUNTY FINISHED

SUBMITTED BY *V. W. Enlow* DATE 12/24/1946  
APPROVED BY *C. W. Brown* DATE 12/24/1946

SEE FINAL PLANS CROWN LINES

STDC-110R3  
L-226

Drawn Aug. 1946 by W.C.M.  
Traced Aug. 1946 by S.G.S.  
Checked Sept. 1946 by C.S.A.

Note: This drawing is not to scale. Follow dimensions.

Sheet No. 1 of 3

Rev. 5-12-49

R. L. T. 22-115



R-22-N15  
Rev. Mar. 1946



21

## FINAL PLANS



304