

## INTEROFFICE MEMORANDUM

DATE: June 2, 1966

TO: Mr. Ward Goodman, Chief Engineer  
FROM: L. P. Carlson, Bridge Engineer  
SUBJECT: Structural Steel Costs

Here is some information on cost of structural steel.

### 1965 Weighted Average

Structural Steel in Plate Girder Spans (A36) \$0.152

These were simple spans.

Structural Steel in Plate Girder Spans (A36) .199

Structural Steel in Plate Girder Spans (A441) .23\*

\*This is for 1 job with continuous spans.

We had 2 jobs in 1965 that had continuous plate girders of A36 steel.

Job 5560 @ .225

Job 6718 @ .192

### 1963 Weighted Average

Structural Steel in Beam Spans (A36) .155

These were probably all simple spans.

Structural Steel in Plate Girder Spans (A36) .197

Structural Steel in Plate Girder Spans (A441) .195\*

\*This was 2 jobs (St. Francis & Ouachita Rivers) both of which had simple spans.

We look at the breakdown of the cost as follows:

Say	.155	for A36 (Beams)
Add	.035	for Continuous
Add	.020	for Plate Girder Fabrication
Add	<u>.020</u>	for High Strength Steel
	.230	for A441 Continuous Plate Girder

LPC:bc

# CHOCTAW

INC.

PHONE FRANKLIN 5 7251 - V. O. BOX 1020 - 1300 BOND STREET - LITTLE ROCK

Effective February 15, 1966  
Cancels February 15, 1961

## CONCRETE BRIDGE SLABS, CAPS, & ACCESSORIES

### ARKANSAS

#### OLD STYLE DESIGN

	WT. (#)	PRICE
15'x3'6" Interior Units - 12" Depth	4,993	\$131.00 Ea.
15'x3'9" Curb Units - 12" Depth	6,350	145.00 Ea.
19'x3'6" Interior Units - 17" Depth	8,293	170.00 Ea.
19'x3'9" Curb Units - 17" Depth	10,067	210.00 Ea.
31'x3'6" Interior Units - 17" Depth	13,356	425.00 Ea.
31'x3'9" Exterior Units - 17" Depth	12,428	405.00 Ea.
31'x1'0" Curb Units - 26" Depth	11,044	189.00 Ea.
45'x3'0" Interior Units - 21" Depth	24,000	715.00 Ea.
45'x1'0" Curb Units - 30" Depth	11,625	340.00 Ea.
26'x19'x18" Intermediate Bent Cap (19' units)	8,450	165.00 Ea.
28'x19'x18" End Bent Cap	9,100	175.00 Ea.
Turnout Wings (Double for End Bent)	747	25.00 Ea.
6"x8"x4'0" Guard Rail Posts (For 15', 19' Units)	279	6.00 Ea.
6"x8"x4'4" Guard Rail Posts (For 31' Units)	219	6.25 Ea.
6"x8"x4'8" Guard Rail Posts (For 45' Units)	233	6.50 Ea.

#### NEW STYLE DESIGN

19'x3'6" Interior Units - 17" Depth	8,293	170.00 Ea.
19'x3'9" Curb Units - 17" Depth	10,196	235.00 Ea.
31'x3'6" Interior Units - 17" Depth	13,356	425.00 Ea.
31'x3'9" Curb Units - 17" Depth	16,935	535.00 Ea.
28'6"x19'-3/4"x24" Intermediate Bent Cap (31' to 31')	13,452	215.00 Ea.
28'6"x19'-3/4"x18" Intermediate Bent Cap (19' to 19')	10,085	200.00 Ea.
31'4"x19'-3/4"x18" End Bent Cap (For 19' & 31')	11,030	210.00 Ea.
10"x10"x4'0" Guard Rail Posts (For 15', 19', 31')	423	9.50 Ea.
<i>METAL TUBE RAILING</i>		
6"x8"x6'0" Guard Fence Posts	300	6.50 Ea.
6"x8"x6'0" Delineator Posts	300	6.50 Ea.

*Steel & Guard Railing 125 ft  
Turnout 42 Ea*

Prices for slabs include necessary bolts and nuts for erection.

~~DELIVERY~~ - F.O.B. - trucks - job site.



Received  
2-25-66 B.V.

Received from Jim Dawson 1-24-68  
) Onwaco Forming Co.

WF Beams

$6\frac{1}{2}$ ¢/ft +  $75$ ¢/ft for paint, labor or holes, etc.

Cover Pl's

$9\frac{1}{2}$ ¢/ft +  $50$ ¢/ft for weld

Expansion Devices

$9\frac{1}{2}$ ¢/ft +  $\$1.50$ /ft

Diaphragms

$25$ ¢/ft +  $\$3.75$  each

$\frac{3}{8}$ "  $\phi$  Stud Shear Connectors

34 ea. or one row of 3 =  $\$1.00$

Add  $75$ ¢/ft for handling, shipping for beams

Add  $1\frac{1}{2}$ ¢/ft for extra labor on continuous beams

$\$37.00$  ea Type A - Fin 8' x 12" bottom fl

$\$68.50$  ea " " - Exp

$\$15.00$  ea Type B 35' 60" for 3' long