

"THIS MEDIA SHOULD NOT BE CONSIDERED A CERTIFIED DOCUMENT."

DATE PREPARED
1/9/2014

ROUTE * STATE
BR MO

DISTRICT BR SHEET NO. 1

COUNTY *

JOB NO. *

CONTRACT ID.

PROJECT NO.

BRIDGE NO. *

DESCRIPTION	DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
 105 WEST CAPITOL JEFFERSON CITY, MO 65102
 1-888-ASK-MODOT (1-888-275-6636)

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

U.I.P., REDECK AND MAKE COMPOSITE EXISTING (*) (*) (*) I-BEAM SPANS

General Notes:

Design Specifications:
 2002 - AASHTO 17th Edition
 Load Factor Design
 Seismic Performance Category A

Design Loading:
 HS20-44 (New Construction)
 15#/sq. ft. Future Wearing Surface
 Earth - 120 #/Cu. Ft., Equivalent Fluid Pressure 45#/Cu. Ft.
 Fatigue Stress - Case II or III

Design Unit Stresses:
 Class B-1 Concrete (Safety Barrier Curb) $f'c = 4,000$ psi
 Class B-2 Concrete (End Bents & Superstructure, except Safety Barrier Curb) $f'c = 4,000$ psi
 Reinforcing Steel (Grade 60) $fy = 60,000$ psi

Joint Filler:
 All joint filler shall be in accordance with Sec 1057 for preformed sponge rubber expansion and partition joint filler, except as noted.

Reinforcing Steel:
 Minimum clearance to reinforcing steel shall be 1 1/2", unless otherwise shown.

Miscellaneous:
 Protective coating for concrete bents and piers (Urethane or Epoxy) shall be applied as shown on the bridge plans and in accordance with Sec 711.

Bars bonded in old concrete not removed shall be cleanly stripped and embedded into new concrete where possible. If length is available, old bars shall extend into new concrete at least 40 diameters for smooth bars and 30 diameters for deformed bars, unless otherwise noted.

Roadway surfacing adjacent to bridge ends shall match new bridge slab surface (Roadway Item).

Outline of old work is indicated by light dashed lines. Heavy lines indicate new work.

Contractor shall verify all dimensions in field before ordering new material.

The area exposed by the removal of concrete and not covered with new concrete shall be coated with an approved qualified special mortar in accordance with Sec 704.

Traffic Handling:
 Structure to be closed during construction.

Estimated Quantities		
Item		Total
Removal of Existing Bridge Decks	sq. foot	X
Slab on Steel	sq. yard	X
* Safety Barrier Curb	linear foot	X
Protective Coating - Concrete Bents and Piers (Urethane)	lump sum	X
Slab Drain	each	X
Shear Connectors	each	X

* Safety barrier curb shall be cast-in-place option or slip-form option.

Cost of any required excavation for bridge will be considered completely covered by the contract unit price for other items.

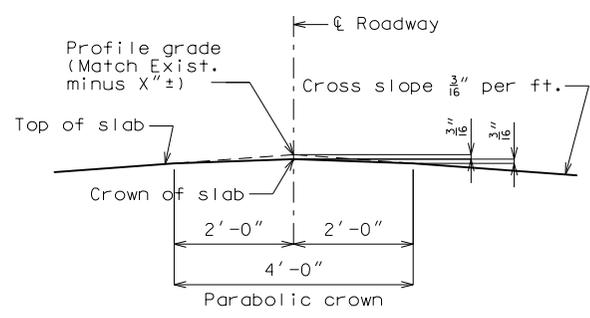
Estimated Quantities for Slab on Steel		
Item		Total
Class B-2 Concrete	cu. yard	
Reinforcing Steel (Epoxy Coated)	pound	

The table of Estimated Quantities for Slab on Steel represents the quantities used by the State in preparing the cost estimate for concrete slabs. The area of the concrete slab will be measured to the nearest square yard longitudinally from end of slab to end of slab and transversely from out to out of bridge slab (or with the horizontal dimensions as shown on the plan of slab). Payment for prestressed panels, stay-in-place forms, conventional forms, all concrete and coated and uncoated reinforcing steel will be considered completely covered by the contract unit price for the slab. Variations may be encountered in the estimated quantities but the variations cannot be used for an adjustment in the contract unit price.

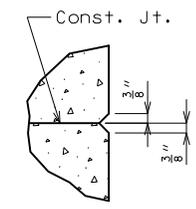
Method of forming the slab shall be in accordance with Sec 703. All hardware for forming the slab to be left in place as a permanent part of the structure shall be coated in accordance with ASTM A123 or ASTM B633 with a thickness class SC 4 and a finish type I, II or III.

Slab shall be cast-in-place with conventional forming or stay-in-place corrugated steel forms. Precast prestressed panels will not be permitted.

For optional Stay-In-Place Form Details, see Sheet No. 2.



DETAIL A



DETAIL B

REQUIRED LAP LENGTH FOR BAR SPLICES **	
Bar Size	Splice Length
4	2'-7"
5	3'-3"
6	3'-10"
7	4'-11"

** Unless otherwise shown.

TABLE SHOWING * BAR LENGTHS			
Int. Bent No. 2		Int. Bent No. 3	
Span 1	Span 2	Span 2	Span 3
*	*	*	*

REPAIRS TO BRIDGE OVER *

STATE ROAD	
ABOUT	
STA.	(Match Existing)
	STD. 617.10
	STD. 706.35

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.