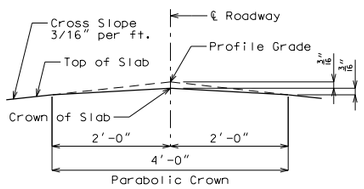
SEC/SUR ✳ TWP ✳ RGE ✳

U.I.P., REDECK AND MAKE COMPOSITE EXISTING (__'- __'- __') CONTINUOUS WIDE FLANGE BEAM SPANS

Table Showing S2 Bar Lengths			
Int. Bent No. 2		Int. Bent No. 3	
Span 1	Span 2	Span 2	Span 3
__'-_"	__'-_"	__'-_"	__'-_"

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.



DETAIL A

General Notes:

Design Specifications:
2002 AASHTO LFD (17th Ed.) Standard Specifications
Seismic Performance Category A

Design Loading:
HS__-__ (19__) (Existing)
HS20-44 (New Construction)
15 lb/sf Future Wearing Surface
Earth - 120 lb/cf, Equivalent Fluid Pressure 45 lb/cf
Fatigue Stress - Case 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.

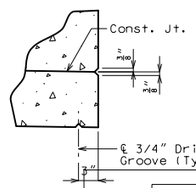
Roadway surfacing adjacent to bridge ends shall match new bridge slab surface (Roadway Item).

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

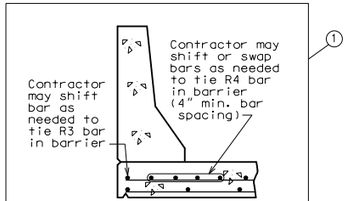
Contractor shall verify all dimensions in field before ordering new material.

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.

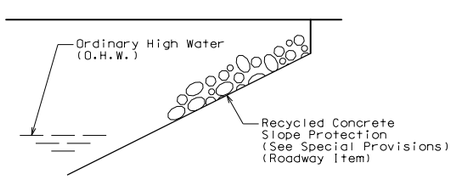
Traffic Handling:
Structure to be closed during construction. Traffic to be maintained on _____ during construction. See roadway plans for traffic control and Sheet No. __ for staged construction details.



DETAIL B



OPTIONAL SHIFTING TOP BARS AT BARRIER



OPTIONAL SLOPE PROTECTION DETAIL

Estimated Quantities		
Item		Total
Removal of Existing Bridge Decks	sq. foot	X
Partial Removal of Substructure Concrete	lump sum	1
Slab on Steel	sq. yard	X
✳ Safety Barrier Curb	linear foot	X
Protective Coating - Concrete Bents and Piers (Urethane)	lump sum	1
Shear Connectors	each	X
Slab Drain	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 corrugated steel forms, conventional forms, all concrete and coated and uncoated reinforcing steel except MBS 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.

REPAIRS TO BRIDGE:
ROUTE ✳ OVER ✳

ROUTE ✳ FROM ✳ TO ✳
ABOUT ✳ MILES ✳ OF ✳
STA. ± (Match existing)

STD. 617.10
STD. 706.35

Detailed
Checked

Note: This drawing is not to scale. Follow dimensions. Sheet No. 1 of

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

DATE PREPARED	
9/28/2016	
ROUTE ✳	STATE 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)

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

Standard Drawing Guidance (do not show on plans):
(Turn off level Bridge-Constructions to hide)

1. Remove if not required; may be incorporated into half section slab details.
2. For wider roadway sections that require Coating notes, these details may need to be moved to Sheet 2.
3. For skewed bridges, add these items to section details to call out varied transverse bars at end bent.