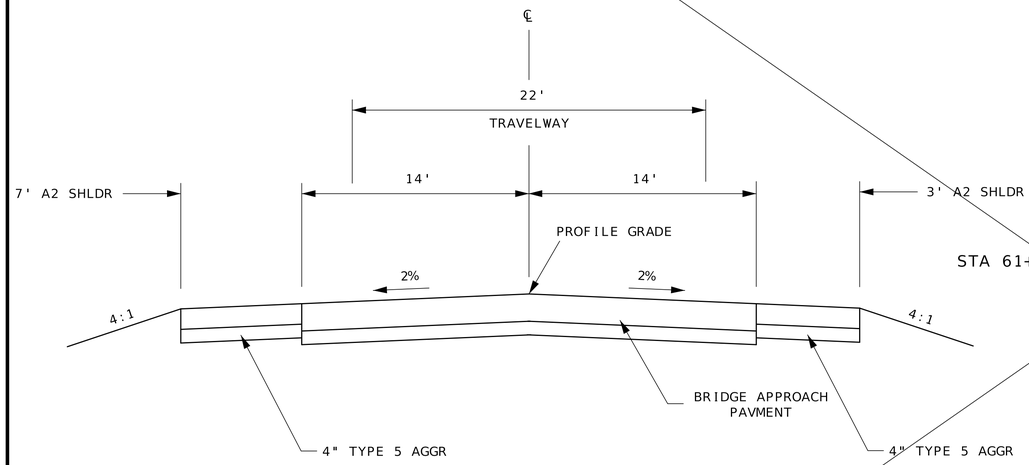


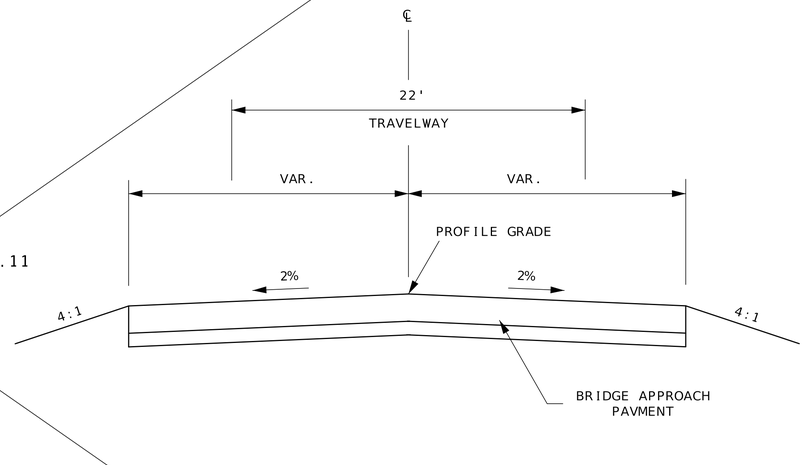
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BR A05951
STA 61+05.59 TO STA 62+52.11



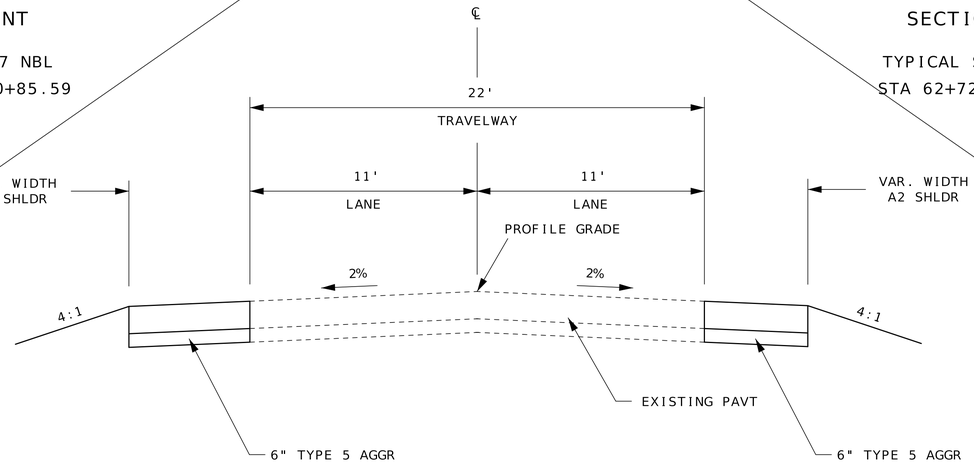
SECTION ON TANGENT

TYPICAL SECTION BUS 67 NBL
STA 60+63.90 TO STA 60+85.59



SECTION ON TANGENT

TYPICAL SECTION BUS 67 NBL
STA 62+72.11 TO STA 62+95.05



SECTION ON TANGENT

TYPICAL SECTION BUS 67 NBL
STA 62+95.05 TO STA 63+97.50

NOTE:
DRAWING NOT TO SCALE. FOLLOW DIMENSIONS.

1 SHEET DELETED

STATE OF MISSOURI
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11/10/2026

ROUTE	STATE
BU67	MO
DISTRICT	SHEET NO.
SE	2

COUNTY
BUTLER

JOB NO.
JSE0106

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

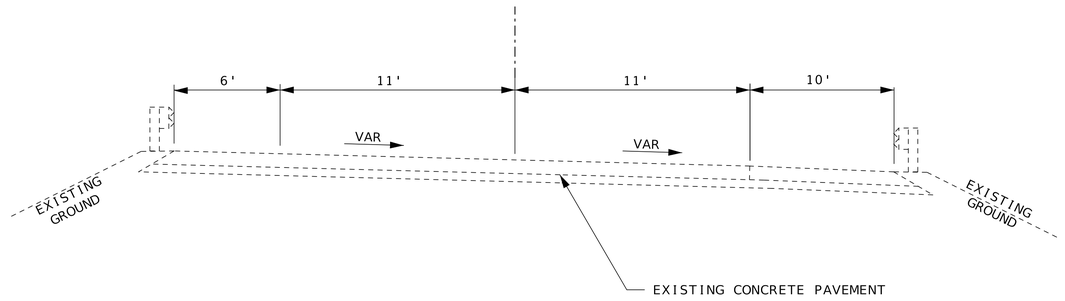
DESCRIPTION

DATE

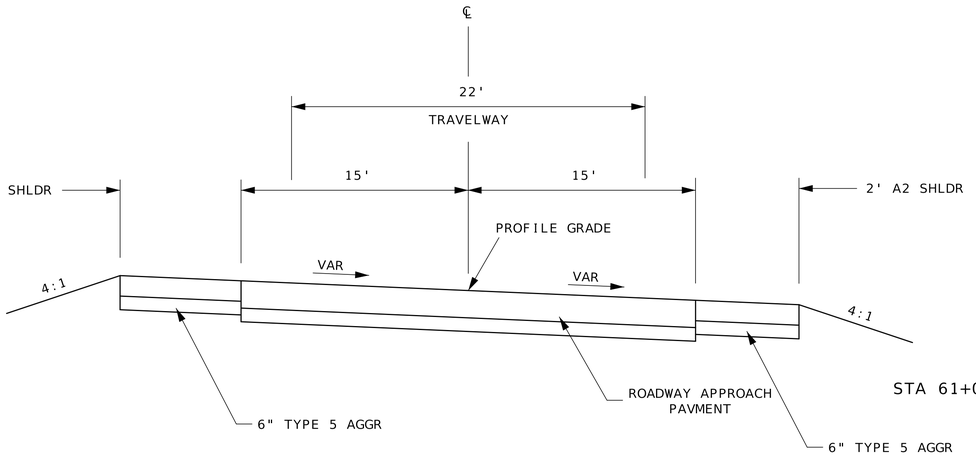
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TYPICAL SECTION
SHEET 1 OF 1



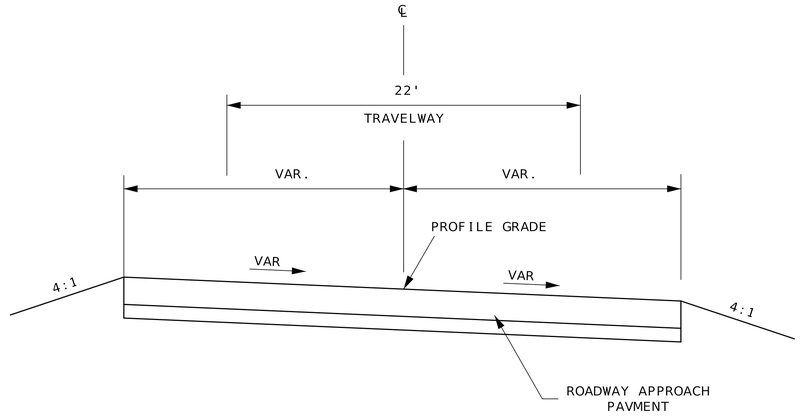
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BR A05951
STA 61+05.59 TO STA 62+52.11

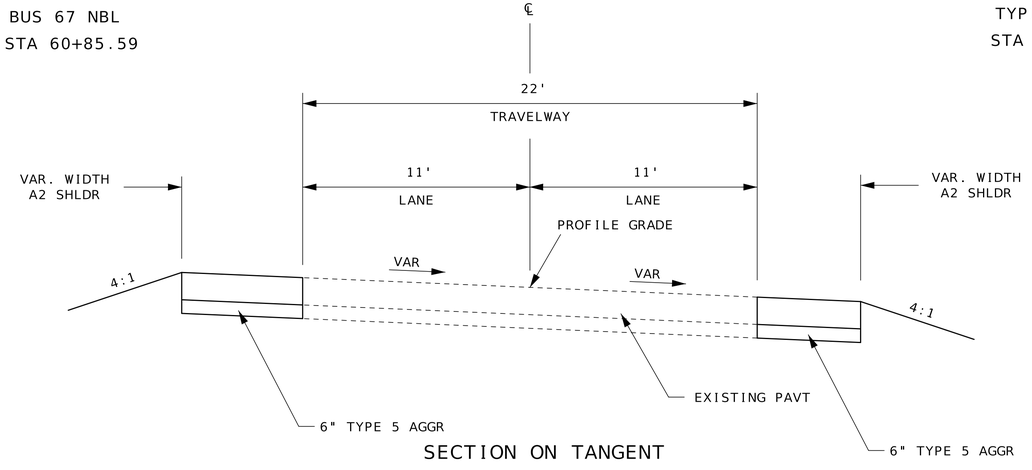
SECTION ON TANGENT

TYPICAL SECTION BUS 67 NBL
STA 60+63.90 TO STA 60+85.59



SECTION ON TANGENT

TYPICAL SECTION BUS 67 NBL
STA 62+72.11 TO STA 62+95.05



SECTION ON TANGENT

TYPICAL SECTION BUS 67 NBL
STA 62+95.05 TO STA 63+97.50

NOTE:
DRAWING NOT TO SCALE. FOLLOW DIMENSIONS.

1 SHEET ADDED

STATE OF MISSOURI
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NUMBER PE-2017019046
PROFESSIONAL ENGINEER
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11/10/2026 3:03:23 PM
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MO-PE-2017019046

DATE PREPARED
11/10/2026

ROUTE	STATE
BU67	MO
DISTRICT	SHEET NO.
SE	2A

COUNTY
BUTLER

JOB NO.
JSE0106

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DESCRIPTION	DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

105 WEST CAPITOL
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TYPICAL SECTION
SHEET 1 OF 1

REMOVAL OF IMPROVEMENTS

DESCRIPTION	REMARKS
260' OF GUARDRAIL	INCLUDES CET, TRANSITION, AND ANCHOR
200 SY CONC PAVEMENT	SAW CUTS AT NOT DIRECT PAY
LUMP SUM ONE	

MOBILIZATION

LUMP SUM ONE

CONTRACTOR FURNISHED SURVEYING AND STAKING

LUMP SUM ONE

CLEARING AND GRUBBING

NO DIRECT PAY FOR CLEARING AND GRUBBING

TYPE 2 ROCK BLANKET

SHEET	SECTION	DEPTH (FT)	AVG WIDTH (FT)	LENGTH (FT)	TYPE 2 ROCK BLANKET FURNISH (CY)	TYPE 2 ROCK BLANKET PLACE (CY)	GEOTEXTILE FABRIC (SY)	REMARKS
6	A-A TO B-B	2	40.5	43	129.0	129.0	236.5	
6	B-B TO C-C	2	55.5	10	41.1	41.1	69.4	
6	C-C TO D-D	2	50.0	44	163.0	163.0	278.7	
6	D-D TO E-E	2	45.5	20	67.4	67.4	116.7	
6	E-E TO F-F	2	35.5	43	113.1	113.1	212.6	
6	G-G TO H-H	2	35.5	43	113.1	113.1	212.6	
6	H-H TO I-I	2	44.5	20	65.9	65.9	118.9	
6	I-I TO J-J	2	48.0	30	106.7	106.7	183.3	
6	J-J TO K-K	2	59.0	20	87.4	87.4	146.7	
6	K-K TO L-L	2	52.0	43	165.6	165.6	281.9	
				TOTAL	1053	1053	1858	

CONCRETE APPROACH PAVEMENT AND A2 SHOULDER

6" TYPE 5 (1)

SHEET	STA	STA	LOC	LENGTH (FT)	WIDTH (FT)	CONCRETE APPROACH PAVEMENT (SY)	4" TYPE 5 AGGREGATE (SY)	A2 SHOULDER (SY)	REMARKS
4	60+63.90	60+85.59	LT BUS 67	21.69	14.00	40.45			
4	60+63.90	60+85.59	RT BUS 67	21.69	14.00	26.98			
4	60+63.90	61+05.59	LT BUS 67	41.69	VAR		41.6	41.63	
4	60+63.90	61+05.59	RT BUS 67	41.69	VAR		13.4	13.39	
4	62+72.11	62+95.05	LT BUS 67	22.94	14.00	29.97			
4	62+72.11	62+95.05	RT BUS 67	22.94	14.00	41.97			
4	62+95.05	63+97.50	LT BUS 67	102.45	VAR		79.0	79.01	
4	62+95.05	63+94.00	RT BUS 67	98.95	VAR		53.8	53.81	
					TOTAL	139.4	188	187.9	

(1)

43.82		
28.42		
	36.3	36.27
	9.7	9.67
33.88		
40.55		
	79.0	79.01
	53.8	53.81
146.7	179	178.8

GUARDRAIL

SHEET	STA	STA	LOC	MGS GUARDRAIL FT	MGS BRIDGE APPROACH TRANSITION SECTION EA	TYPE A CRASHWORTHY END TERMINAL (MASH) EA	MODIFIED SHAPING SLOPES CLASS III (100F)	REMARKS
4	62+60.00	63+97.50	LT	50.0	1	1	1.4	
4	64+04.50		LT				0.5	DRIVEWAY SHIFT
4	62+44.00	63+94.00	RT	62.5	1	1	1.5	
			TOTAL	113	2	2	3	

TEMPORARY PAVEMENT MARKING

SHEET	PREFORMED SHORT TERM MARKING TAPE YELLOW (LF)	PREFORMED SHORT TERM MARKING TAPE WHITE (LF)	TEMPORARY PAVEMENT MARKING REMOVAL (LF)	REMARKS
8	1275	325	1600	STAGE 1
8	325	1275	1600	STAGE 2
TOTAL	1600	1600	3200	

POROUS BACKFILL

SHEET	STA	LOC	POROUS BACKFILL (CY)	REMARKS
4	61+05.59	BUS 67 NBL	42.4	
4	62+52.11	BUS 67 NBL	29.4	
		TOTAL	72	

POROUS BACKFILL SHALL BE GRADES 3,4,OR 5.

42.4
31.4
74

(1)

GRAVEL A OR CRUSHED STONE B

SHEET	STA	LOC	GRAVEL A CRUSHED STONE B (TON)	REMARKS
4	94+04.50	LT	10.0	DRIVEWAY SHIFT
			10	

PAVEMENT MARKING

SHEET	CLASS 1 HIGH BUILD PAINT TYPE P BEADS 4" INT WHITE (LF)	4" SOLID WHITE (LF)	4" SOLID YELLOW (LF)	PAVEMENT MARKING REMOVAL (LF)	REMARKS
8	320.0			855	CENTERLINE
8		1275	1275.0		EDGELINE
TOTAL	1595		1275	855	

TEMPORARY EROSION CONTROL

SHEET	SILT FENCE (LF)	ROCK DITCH CHECK (LF)	TYPE C BERM (LF)	SEDIMENT REMOAVL (CY)	TEMPORARY SEEDING (ACRE)	MULCHING (ACRE)
6	300	40	250	7.0	0.5	0.5
TOTAL	300	40	250	7	0.5	0.5

SEEDING AND MULCH

SHEET	STA	STA	LOC	SEEDING COOL SEASON GRASSES (ACRE)	MULCHING (ACRE)	REMARKS
4	60+78.01	63+97.50	LT	0.15	0.15	
4	60+78.01	63+97.50	RT	0.15	0.15	
			TOTAL	1	1	

NOTE: SEEDING ACRES FOR INFORMATION ONLY

(1) REVISED

STATE OF MISSOURI
SEIJI SHIMBO
NUMBER PE-2017019046
PROFESSIONAL ENGINEER
Seiji Shimbo
11/10/2026 3:09:36 PM
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11/10/2026

ROUTE	STATE
BU67	MO
DISTRICT	SHEET NO.
SE	3

COUNTY
BUTLER

JOB NO.
JSE0106

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DESCRIPTION

DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

105 WEST CAPITOL
JEFFERSON CITY, MO 65102
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SUMMARY OF QUANTITIES
SHEET 1 OF 2

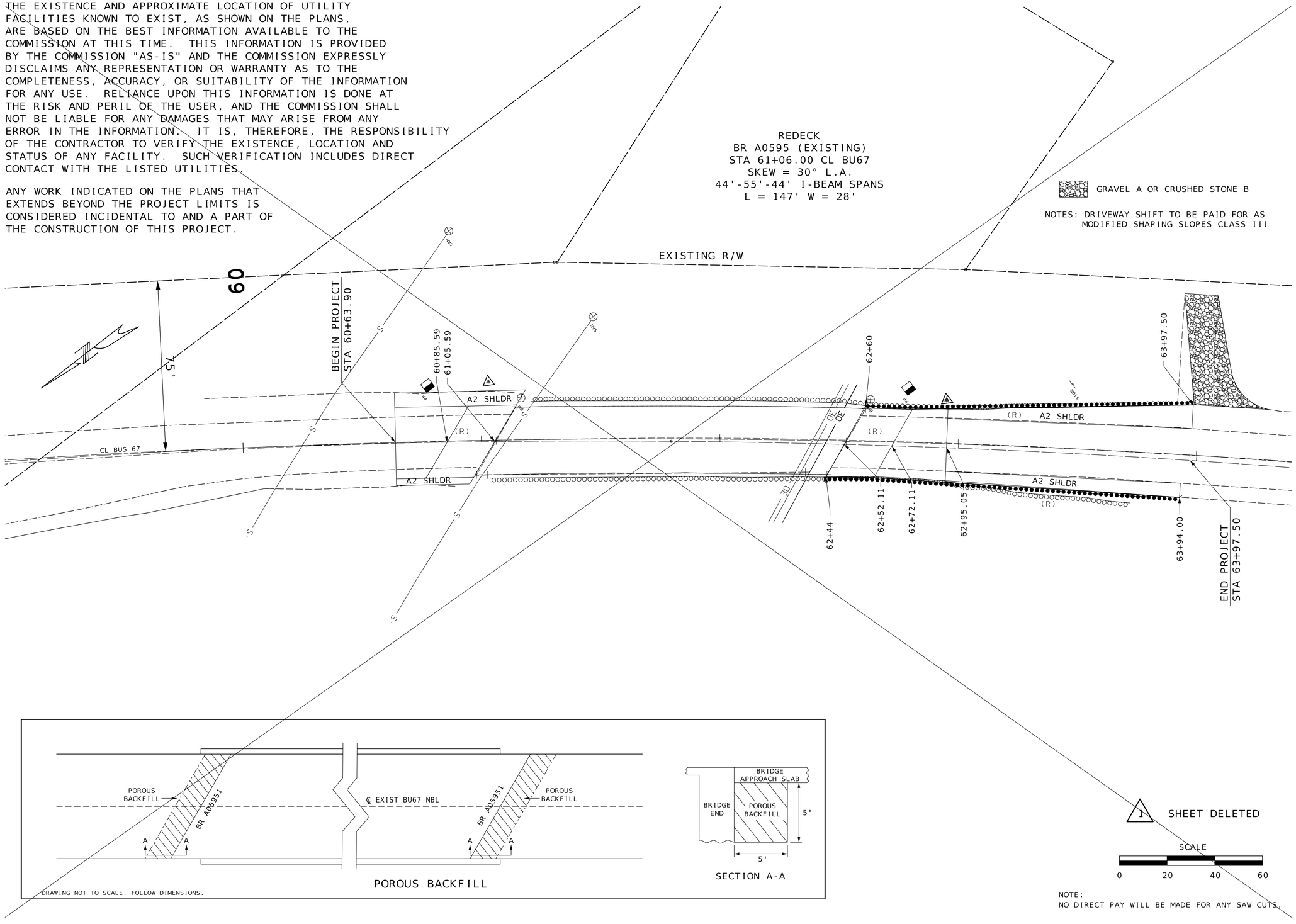
THE EXISTENCE AND APPROXIMATE LOCATION OF UTILITY FACILITIES KNOWN TO EXIST, AS SHOWN ON THE PLANS, ARE BASED ON THE BEST INFORMATION AVAILABLE TO THE COMMISSION AT THIS TIME. THIS INFORMATION IS PROVIDED BY THE COMMISSION "AS-IS" AND THE COMMISSION EXPRESSLY DISCLAIMS ANY REPRESENTATION OR WARRANTY AS TO THE COMPLETENESS, ACCURACY, OR SUITABILITY OF THE INFORMATION FOR ANY USE. RELIANCE UPON THIS INFORMATION IS DONE AT THE RISK AND PERIL OF THE USER, AND THE COMMISSION SHALL NOT BE LIABLE FOR ANY DAMAGES THAT MAY ARISE FROM ANY ERROR IN THE INFORMATION. IT IS, THEREFORE, THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY THE EXISTENCE, LOCATION AND STATUS OF ANY FACILITY. SUCH VERIFICATION INCLUDES DIRECT CONTACT WITH THE LISTED UTILITIES.

ANY WORK INDICATED ON THE PLANS THAT EXTENDS BEYOND THE PROJECT LIMITS IS CONSIDERED INCIDENTAL TO AND A PART OF THE CONSTRUCTION OF THIS PROJECT.

REDECK
BR A0595 (EXISTING)
STA 61+06.00 CL BU67
SKEW = 30° L.A.
44'-55'-44' I-BEAM SPANS
L = 147' W = 28'

GRAVEL A OR CRUSHED STONE B

NOTES: DRIVEWAY SHIFT TO BE PAID FOR AS MODIFIED SHAPING SLOPES CLASS III



POROUS BACKFILL

SECTION A-A

DRAWING NOT TO SCALE. FOLLOW DIMENSIONS.

1 SHEET DELETED

SCALE
0 20 40 60

NOTE:
NO DIRECT PAY WILL BE MADE FOR ANY SAW CUTS.

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ROUTE	STATE
BU67	MO
DISTRICT	SHEET NO.
SE	4

COUNTY
BUTLER

JOB NO.
JSE0106

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DESCRIPTION	DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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PLAN SHEET
SHEET 1 OF 1

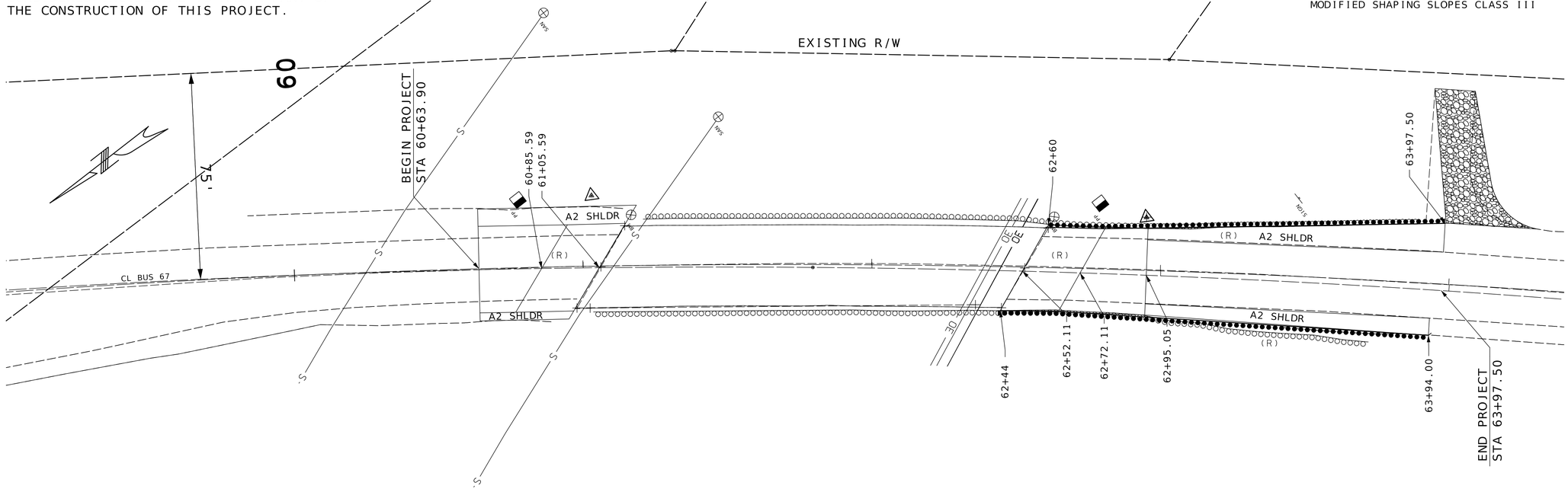
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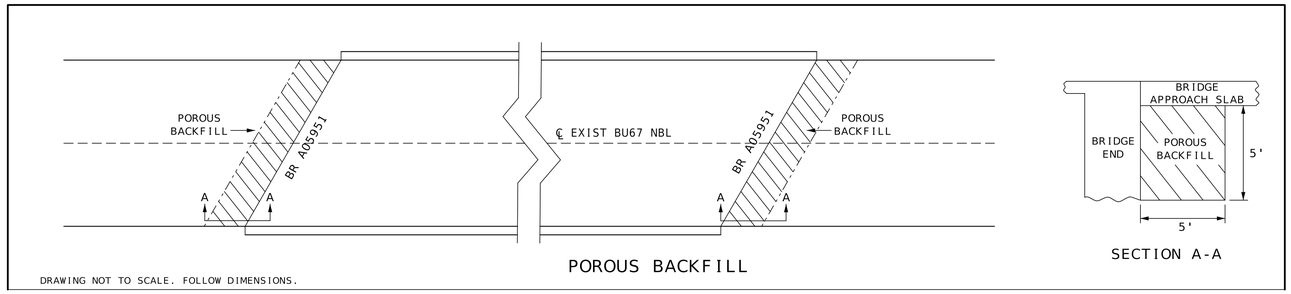
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REDECK
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STA 61+06.00 CL BU67
SKEW = 30° L.A.
44'-55'-44' I-BEAM SPANS
L = 147' W = 30'

GRAVEL A OR CRUSHED STONE B

NOTES: DRIVEWAY SHIFT TO BE PAID FOR AS MODIFIED SHAPING SLOPES CLASS III





DRAWING NOT TO SCALE. FOLLOW DIMENSIONS.

POROUS BACKFILL

1 SHEET ADDED

SCALE
0 20 40 60

NOTE:
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DATE PREPARED
11/10/2026

ROUTE	STATE
BU67	MO
DISTRICT	SHEET NO.
SE	4A

COUNTY
BUTLER

JOB NO.
JSE0106

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DESCRIPTION	DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
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PLAN SHEET
SHEET 1 OF 1

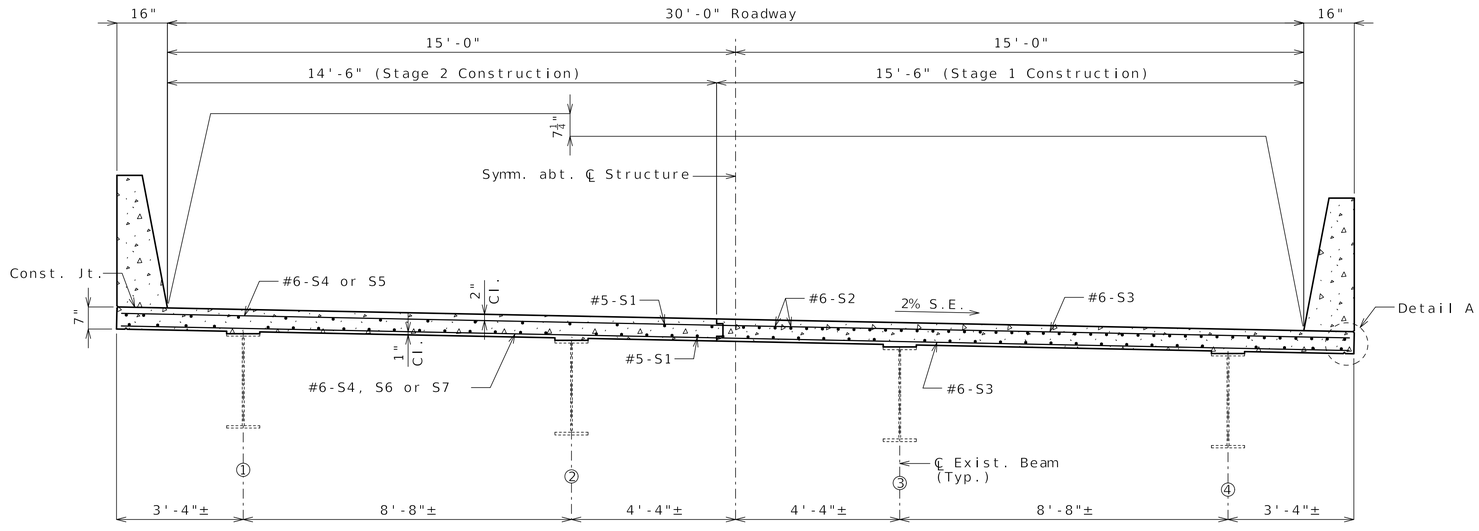
SEC/SUR 9 TWP 24N RGE 6E

U.I.P., REDECK AND MAKE COMPOSITE EXISTING (44'- 55'- 44') 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
15'-9"	17'-6"	17'-6"	15'-9"

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.



HALF SECTION NEAR MIDSPAN AND END BENTS HALF SECTION NEAR INT. BENT

TYPICAL SECTION THRU SLAB

Mechanical Bar Splices not shown for clarity

General Notes:

Design Specifications:

2002 AASHTO LFD (17th Ed.) Standard Specifications
Seismic Performance Category B

Design Loading:

H20-44 (1957) (Existing)
HS20-44 (New Construction)
35 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 (Barrier)	f'c = 4,000 psi
Class B-2 Concrete (End Bents & Superstructure, except Barrier)	f'c = 4,000 psi
Reinforcing Steel (ASTM A615 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.

MBS refers to mechanical bar splices. Mechanical bar splices shall be in accordance with Sec 706 or 710.

Miscellaneous:

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

Bars bonded in existing concrete not removed shall be cleanly stripped and embedded into new concrete where possible. If length is available, existing bars shall extend into new concrete at least 40 diameters for plain 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 existing work is indicated by light dashed lines. Heavy lines indicate new work.

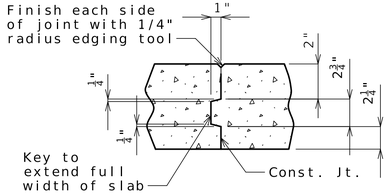
Contractor shall verify all dimensions in field before finalizing shop drawings or ordering materials.

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.

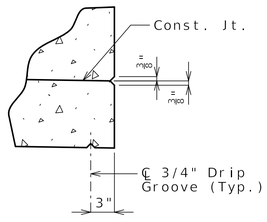
For adjusted girder deflection due to the weight of the new deck and barriers, see Bridge Electronic Deliverables.

Traffic Handling:

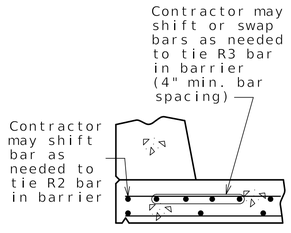
Traffic to be maintained on structure during construction, see roadway plans for traffic control and Sheet No. 3 for staged construction details.



SLAB CONSTRUCTION JOINT



DETAIL A



OPTIONAL SHIFTING TOP BARS AT BARRIER

Estimated Quantities

Item		Total
Class 1 Excavation	cu. yard	90
⚠1 Temporary Shoring	lump sum	1
Removal of Existing Bridge Deck	sq. foot	4631
Bridge Approach Slab (Major)	sq. yard	145
Slab on Steel	sq. yard	535
Type D Barrier	linear foot	293
Mechanical Bar Splice	each	526
Protective Coating - Concrete Bents and Piers (Epoxy)	lump sum	1
Shear Connectors	each	1456
Slab Drain	each	13
Non-Destructive Testing	linear foot	24
Vertical Drain at End Bents	each	2

Estimated Quantities for Slab on Steel

Item		Total
Class B-2 Concrete	cu. yard	122
Reinforcing Steel (Epoxy Coated)	pound	42,910

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 stay-in-place corrugated steel forms, conventional forms, all concrete and epoxy coated 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.

For Plan of Slab Showing Reinforcement, see Sheet No. 10.

⚠1 ADDED

REPAIRS TO BRIDGE: BUSINESS ROUTE 67 OVER PIKE CREEK

BUSINESS ROUTE 67 NB FROM ROUTE 53 TO ROUTE 67
ABOUT 0.1 MILE SOUTHWEST OF ROUTE 53
BEGINNING STATION 61+06.00 ± (MATCH EXISTING)

STATE OF MISSOURI
TIMOTHY D. LEAF
NUMBER PE-2012000778
PROFESSIONAL ENGINEER
11/05/2026 9:07:05 AM
TIMOTHY D. LEAF - CIVIL
MO-PE-2012000778

DATE PREPARED 11/5/2026

ROUTE BU 67 | STATE MO

DISTRICT BR | SHEET NO. 1

COUNTY BUTLER

JOB NO. JSE0106

CONTRACT ID.

PROJECT NO.

BRIDGE NO. A05951

DESCRIPTION | DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
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