

DELETED & ADDED

POWER SUPPLY													
LOCATION			POWER SUPPLY ASSEMBLY		CIRCUIT BREAKER TRIP RATING*				LIGHTING CONTROL * (ON POWER SUPPLY)		SERVICE POLE		
APPROACH	STATION	OFFSET	DRAWING 902.15	SPECIAL DRAWING (4)	AUXILIARY BREAKER	CONT. & SIGNAL LAMPS	POWER SUPPLY DISCONNECT		120 VOLT CONTROL CABINET		CONTRACT FURNISH	UTILITY COMPANY	
RTE. 100	2619+22	57' RT.	Type	1	15 Amps	Amps	100	SIGNALS	LIGHTING	Amps	Amps	AMEREN	

CONTROLLER ASSEMBLY AND AUXILIARY EQUIPMENT																						
LOCATION			SYSTEM MASTER (CLOSED LOOP)		ACTUATED		ON-OFF* SWITCH		COORDINATION INTERFACE *				NEMA CABINET TYPE *		170 CABINET TYPE *		170 SOFTWARE *					
APPROACH	STATION	OFFSET	NEMA	170	NEMA	170	I	II	12C/7C	HARDWIRE (1)	TIME BASE	CLOSED LOOP		FIBER	TIME * CLOCK	E	EV	DOUBLE	332	336S	BITRAN	WAPITI

NEMA DETECTOR ASSIGNMENT								
CARD POSITION								
	1	2	3	4	5	6	7	8
CHANNEL	1	SL DISTRICT TRAFFIC SIGNAL DETECTION SYSTEM (3)						
	2							

TOTAL NUMBER OF DETECTOR CARDS(2-CHANNEL) = (2)

NEMA LOAD SWITCH ASSIGNMENTS											
1	2	3	4	5	6	7	8	9	10	11	12
Ø	Ø	Ø	Ø	Ø	Ø	NOT USED	Ø	NOT USED	NOT USED	NOT USED	NOT USED
SBL	NB	EBL BL 44	WB	EBL RAMP 2F	SB		EB				

DETECTOR SCHEDULE						
DETECTOR NUMBER	APPROACH	PUSH BUTTON	TYPE			VIDEO (3)
			STANDARD	DELAY / EXTEND *	CALL UNIT *	
RTE. 100 AT BL 44						
21	NB RTE. 100					V3
22	NB RTE. 100					V3
41	WB BL 44					V2
42	WB BL 44					V2
30	EB BL 44					V4
43	EB BL 44					V4
10	SB RTE. 100					V1
60	SB RTE. 100					V1
RTE. 100 AT RAMP 2F & 4F						
23	NB RTE. 100					V6
24	NB RTE. 100					V6
50	WB RAMP 2F					V7
11	SB RTE. 100					V5
61	SB RTE. 100					V5
TOTAL						

- \* ITEMS FOR WHICH SEPARATE PAYMENT WILL NOT BE MADE.
- \*\*\* USE D3-1 FOR ONE LINE. USE D3-1B FOR TWO LINE.
- (1) MODOT "D" PLUG SHALL BE WIRED INTO ALL NEMA CONTROLLERS WITH 7C HARDWARE INTERCONNECT.
- (2) PAYMENT IS MADE FOR THE NUMBER OF 2-CHANNEL DETECTOR CARDS AS SHOWN BELOW THE ASSIGNMENT CHART.
- (3) SEE DISTRICT TRAFFIC SIGNAL DETECTION ISP FOR ADDITIONAL DETAILS. SIGNAL DETECTION SHALL BE PAID AS 1 PER INTERSECTION. THE CONTRACTOR SHALL PROVIDE AND INSTALL A VEHICLE DETECTION SYSTEM FULLY COVERING DETECTOR ZONES AS SHOWN ON THE PLANS. THE METHOD CHOSEN SHALL COMPLY WITH MODOT'S STANDARDS AND SPECIFICATIONS. ALL EQUIPMENT USED IN THE SYSTEM SHALL BE IN ACCORDANCE WITH MODOT'S APPROVED PRODUCT LIST AND RECEIVE ST. LOUIS DISTRICT APPROVAL PRIOR TO INSTALLATION. THIS WILL BE A COMPLETE UNIT WITH ALL COSTS INCLUDED.
- (4) POWER SUPPLY SHALL BE PAD MOUNTED 120V/240V POWER SUPPLY & LIGHTING CONTROLLER WITH UNINTERRUPTIBLE POWER SUPPLY, SEE DETAILS.

SIGNAL SIGNS					
QUANTITY	MUTCD SIGN NUMBER	SIZE	AREA	SIGN TOTAL AREA	SIGNAL SIGN MOUNTING HARDWARE
				ITEM NO. 90208.33	ITEM NO. 90208.34
		INCHES	SQ. FT.	SQ. FT.	EA.
	R10-10L	24 X 30	5.0		
	R10-10R	24 X 30	5.0		
	R3-5L	30 X 36	7.5		
	R3-5R	30 X 36	7.5		
	R3-5A	30 X 36	7.5		
	R3-6L	30 X 36	7.5		
	R3-6R	30 X 36	7.5		
	R3-2	24 X 24	4.0		
	R3-1	24 X 24	4.0		
	R3-3	24 X 24	4.0		
2	D3-1 ***	90 X 18	11.3	22.5	2
	D3-1B ***	VAR. X 18			
	R10-3E	9 X 15	0.9		
	R10-11A	24 X 30	5.0		
	R10-13	36 X 24	6.0		
	R10-27A	30 X 36	7.5		
5	R10-12	24 X 30	5.0	25.0	5
SUBTOTAL				47.5	7
TOTAL				48	7

SL DISTRICT TRAFFIC SIGNAL DETECTION SYSTEM (3)  
TOTAL = 1 EACH

NETWORK CONNECTED SIGNAL MONITOR  
TOTAL = 1 EACH

PAD MOUNTED 120V/240V SIGNAL POWER SUPPLY AND LIGHTING CONTROLLER WITH UNINTERRUPTIBLE POWER SUPPLY  
TOTAL = 1 EACH

NOTE: BID PRICE FOR PAD MOUNTED POWER SUPPLY/CONTROLLER SHALL INCLUDE CABLE (#2 AWG.), RIGID STEEL CONDUIT, AND TRENCHING BETWEEN ASSEMBLY AND UTILITY COMPANY FACILITIES.

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RTE. 100 / I-44 INTERCHANGE RAMP 2F & 4F / W. OSAGE ST. (BL-44)

INTERSECTION \_\_\_\_\_

ROUTE 100  
SIGNALS, LIGHTING & ITS  
SHEET 6 OF 15

D-37C



Jack W. Blakemore  
12/06/2024 3:58:36 PM  
Jack W. Blakemore - Civil  
MO PE 2000155321

DATE PREPARED  
12/6/2024  
ROUTE 100 STATE MO  
DISTRICT SL SHEET NO. 89  
COUNTY FRANKLIN  
JOB NO. JSL0035  
CONTRACT ID.

PROJECT NO.  
BRIDGE NO.

DATE	DESCRIPTION
12/6/24	ADDENDUM NO. 2

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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