DESIGN DESIGNATION

ROUTE 50
A.A.D.T. – 2022 = 5,593
A.A.D.T. – 2042 = 9,047
D.H.V. = 15.0%
T = 8.7%
V = 45 MPH
D = 50.3% WB, 49.7% EB

FUNCTIONAL CLASSIFICATION = PRINCIPAL ARTERIAL

RT CC
A.A.D.T. – 2022 = 2,389
A.A.D.T. – 2042 = 2,389
D.H.V. = 15.0%
T = 2.2%
V = 40 MPH
D = 48.4% NB, 51.6% SB

FUNCTIONAL CLASSIFICATION = MINOR COLLECTOR

CONTROLLED ACCESS RIGHT OF WAY IS TO BE ACQUIRED FOR THIS PROJECT. LIMITS ARE SHOWN ON THE SHEETS.

NORMAL ACCESS RIGHT OF WAY IS TO BE ACQUIRED FOR THIS PROJECT

CONVENTIONAL SYMBOLS

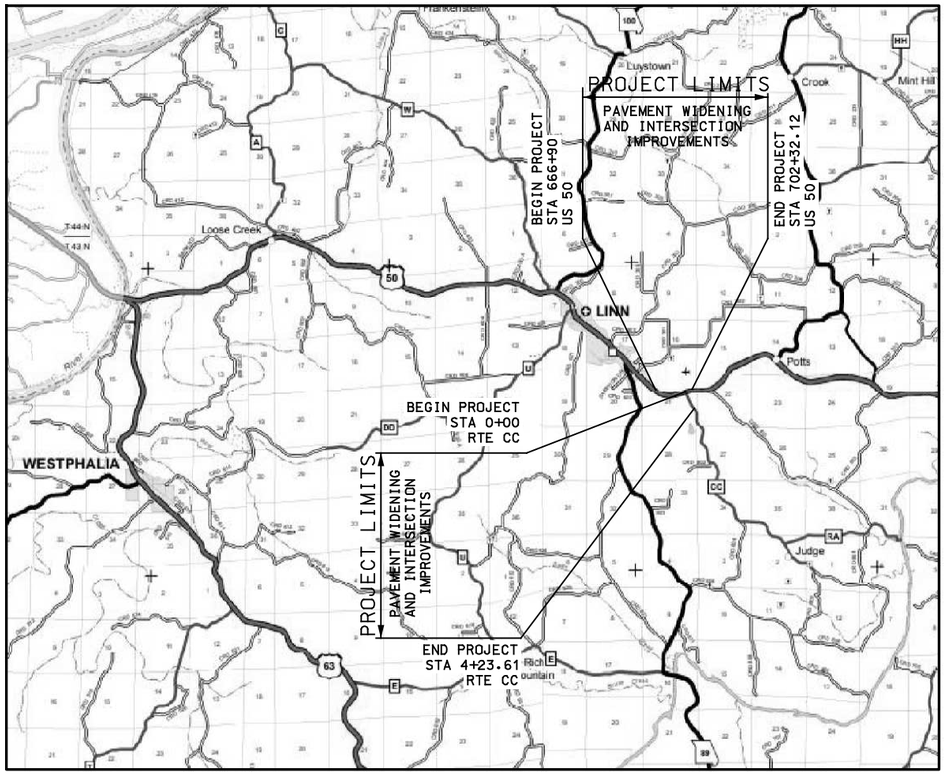
(USED IN PLANS)

	EXISTING	NEW
BUILDINGS AND STRUCTURES		
GUARD RAIL		
CONCRETE RIGHT-OF-WAY MARKER		
STEEL RIGHT-OF-WAY MARKER		
LOCATION SURVEY MARKER		
UTILITIES		
FIBER OPTICS	-FO-	FO
OVERHEAD CABLE TV	-FO-	OTV
UNDERGROUND CABLE TV	-FO-	UTV
OVERHEAD TELEPHONE	-OT-	OT
UNDERGROUND TELEPHONE	-UT-	UT
OVERHEAD POWER	-OE-	OE
UNDERGROUND POWER	-UE-	UE
SANITARY SEWER	-S-	S
STORM SEWER	-SS-	SS
GAS	-G-	G
WATER	-W-	W
MANHOLE		SAN
FIRE HYDRANT		HYD
WATER VALVE		WV
WATER METER		WM
DROP INLET		DI
DITCH BLOCK		
GROUND MOUNTED SIGN		SIGN
LIGHT POLE		
H-FRAME POWER POLE		
TELEPHONE PEDESTAL		PED
FENCE		
CHAIN LINK		V
WOVEN WIRE		X
GATE POST		
BENCHMARK		BM
NOT TO SCALE		N.T.S
USE IN PLACE		U.I.P.
DO NOT DISTURB		D.N.D.

NOTE: DASHED OR OPEN SYMBOLS INDICATE EXISTING FEATURES

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION PLANS FOR PROPOSED STATE HIGHWAY

OSAGE COUNTY
TOWNSHIP 43N, RANGE 8W, SECTIONS 21, 22



N.T.S

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 COUNTY AT THIS TIME. THIS INFORMATION IS PROVIDED BY THE COUNTY"AS-IS" AND THE COOUNTY 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 COUNTY 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.

INDEX OF SHEETS

DESCRIPTION	SHEET NUMBER
TITLE SHEET	1
TYPICAL SECTIONS (TS) (6 SHEETS)	2
QUANTITIES (QU) (8 SHEETS)	3
PLAN (PL)	4-13
PROFILE (PR)	14-19
RIGHT OF WAY PLANS (RW)	20-29
COORDINATE POINTS (CP)	30
SPECIAL SHEETS (SS)	31-32
TRAFFIC CONTROL (TC)	33-51
EROSION CONTROL (EC)	52-61
SIGNALS (SG)	62-80
SIGNING (SN)	81-92
PAVEMENT MARKING (PM)	93-101
CULVERT SECTIONS (CS)	102-103
CROSS SECTIONS (XS)	A001-A038

LENGTH OF PROJECT

RT 50

BEGINNING OF PROJECT	STA 666+90.00
END OF PROJECT	STA 702+32.12
APPARENT LENGTH	3,542.12 FEET
EQUATIONS AND EXCEPTIONS:	
673+35.46 BK = 673+46.44 AH	-10.98 FEET
687+84.11 BK = 687+84.70 AH	-0.59 FEET
699+05.82 BK = 699+07.94 AH	-2.12 FEET
TOTAL CORRECTIONS	-13.69 FEET
NET LENGTH OF PROJECT	3,528.43 FEET
STATE LENGTH	0.668 MILES

RT CC

BEGINNING OF PROJECT	STA 0+00.00
END OF PROJECT	STA 4+23.61
APPARENT LENGTH	423.61 FEET
EQUATIONS AND EXCEPTIONS:	
TOTAL CORRECTIONS	0 FEET
NET LENGTH OF PROJECT	423.61 FEET
STATE LENGTH	0.080 MILES

ESTIMATED DISTURBED ACRES (FOR INFORMATION ONLY) 9.31 ACRES

COLLIN J. WILCOX NUMBER PE-2019035614
STATE OF MISSOURI PROFESSIONAL ENGINEER
THIS SHEET HAS BEEN SIGNED, SEALED, AND DATED ELECTRONICALLY

DATE PREPARED 7/19/2024
ROUTE 50 | STATE MO
DISTRICT CD | SHEET NO. 1
COUNTY OSAGE
JOB NO. J5P3574
CONTRACT ID. .
PROJECT NO. .
BRIDGE NO. .

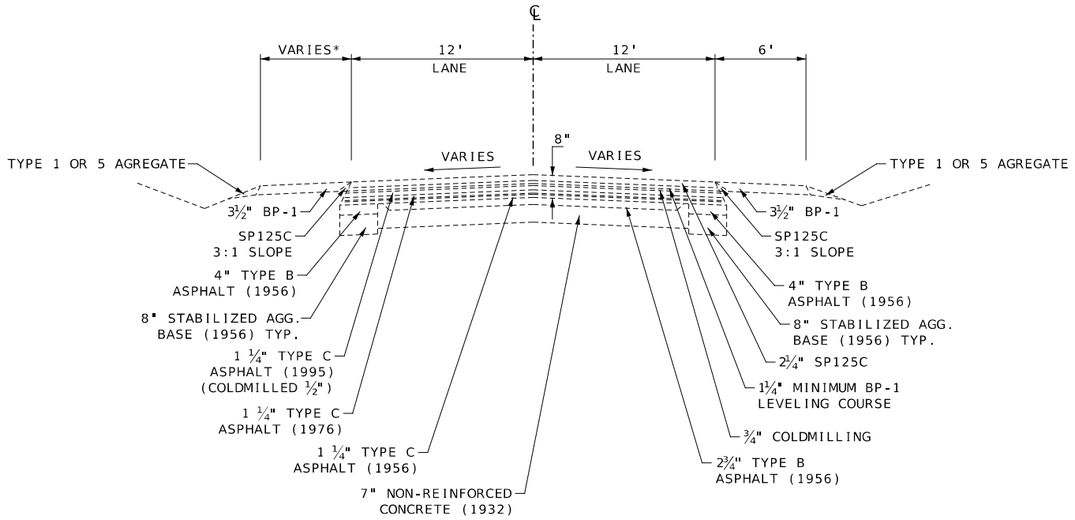
DESCRIPTION | DATE | REV.

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

LOCHMUELLER GROUP
411 North 10th Street, Suite 200
St. Louis, MO 63101
Phone: 314.621.3395

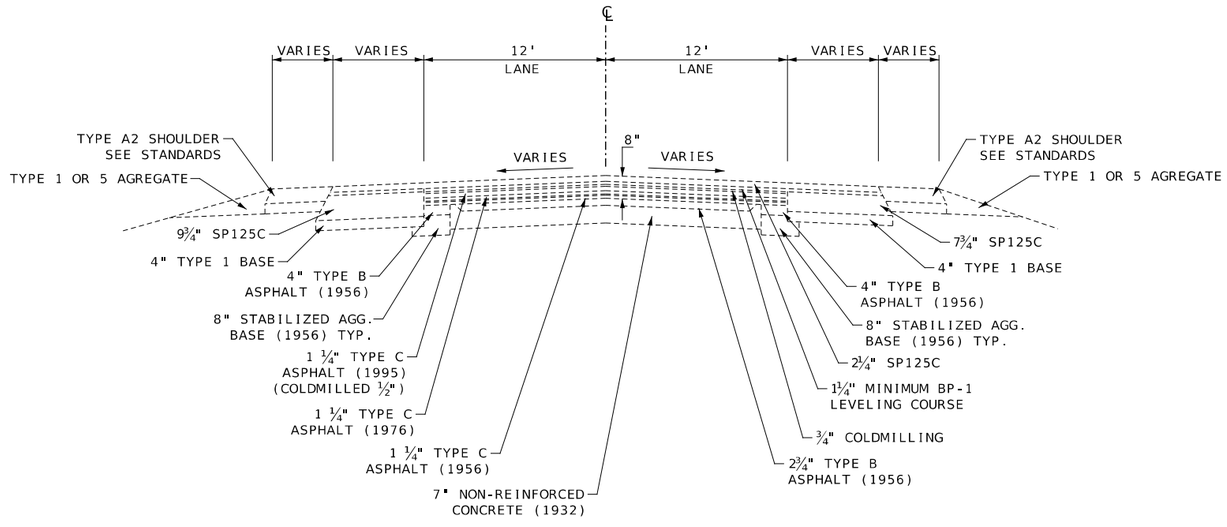
IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

$FILE$ $TIME$ $DATE$



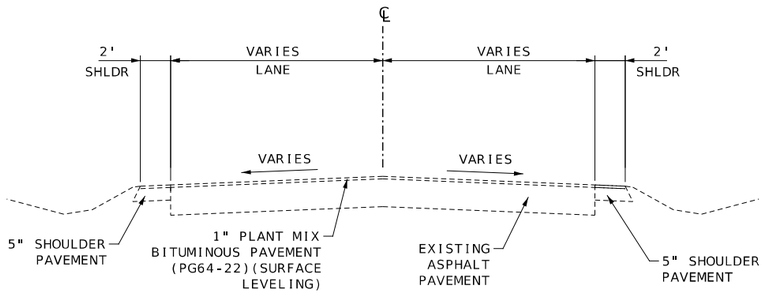
US ROUTE 50

STA. 666+90.00 TO STA. 671+00.00
STA. 697+00.00 TO STA. 702+32.12



US ROUTE 50

STA. 671+00.00 TO STA. 697+00.00



ROUTE CC

STA. 0+00.00 TO STA. 4+23.61

THIS SHEET HAS BEEN SIGNED, SEALED, AND DATED ELECTRONICALLY

COLLIN J. WILCOX
NUMBER PE-2019035614
STATE OF MISSOURI
PROFESSIONAL ENGINEER

DATE PREPARED: 4/8/2024
ROUTE: 50
STATE: MO
DISTRICT: CD
SHEET NO.: 2
COUNTY: OSAGE
JOB NO.: J5P3574
CONTRACT ID.: .
PROJECT NO.: .
BRIDGE NO.: .

DESCRIPTION	DATE
.	.

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MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
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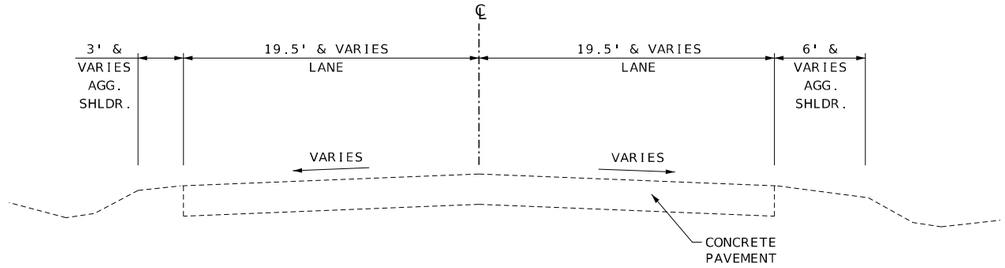
TYPICAL SECTIONS
(SHEET 1 OF 6)

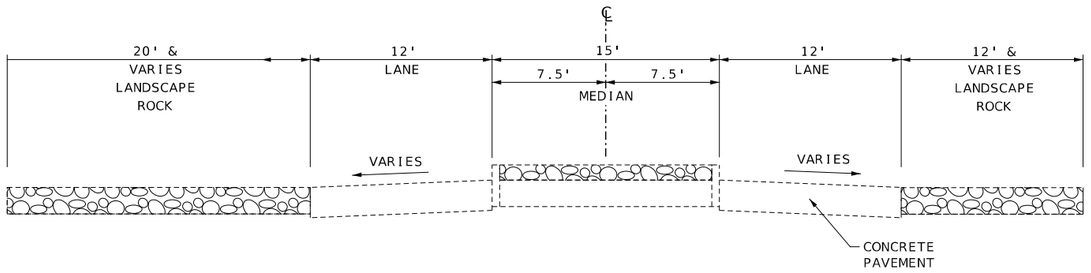
REV.

$FILE$ $TIME$ $DATE$



TECHNOLOGY DR.

STA. 0+29.00 TO STA. 0+75.40



TECHNOLOGY DR.

STA. 0+75.40 TO STA. 1+00.00

TYPICAL SECTIONS
(SHEET 2 OF 6)

$FILE$ $TIME$ $DATE$

REV.

COLLIN J. WILCOX
NUMBER
PE-2019035614
STATE OF MISSOURI
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED, AND DATED ELECTRONICALLY

DATE PREPARED
4/8/2024

ROUTE	STATE
50	MO
DISTRICT	SHEET NO.
CD	2

COUNTY
OSAGE

JOB NO.
J5P3574

CONTRACT ID.
.

PROJECT NO.
.

BRIDGE NO.
.

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

DESCRIPTION	DATE
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MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

105 WEST CAPITOL
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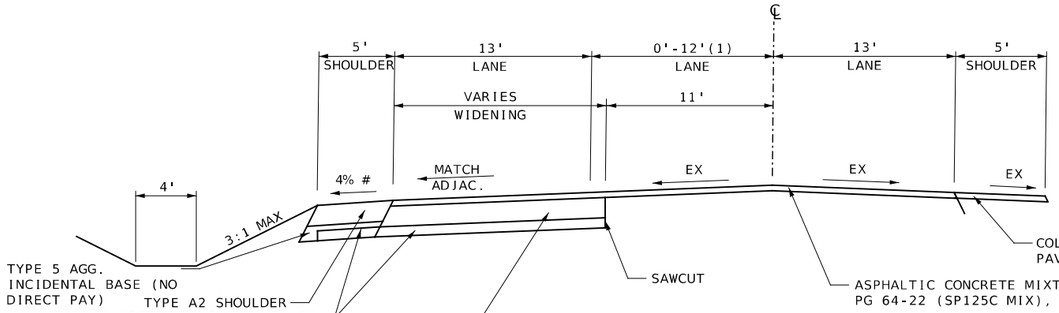
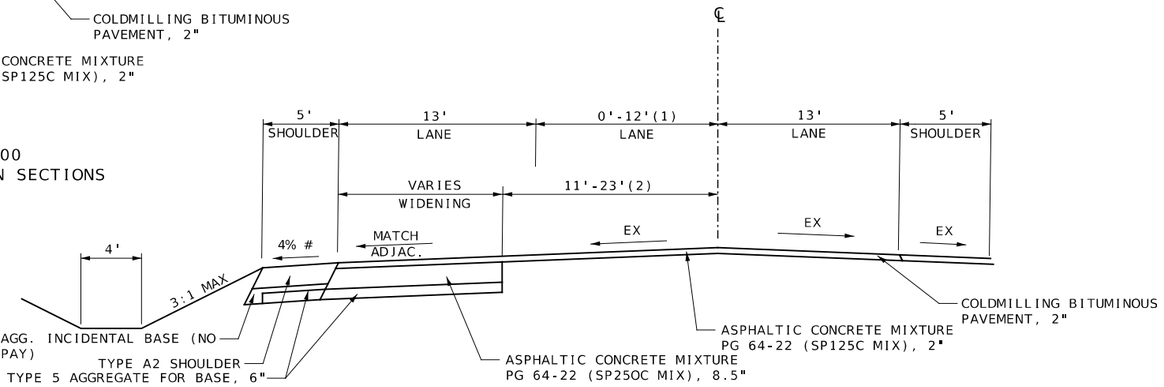


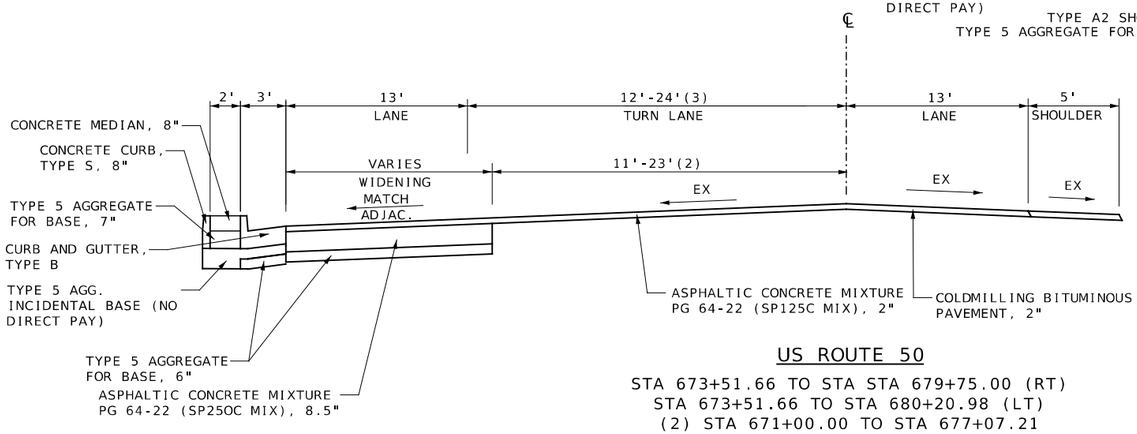
US ROUTE 50

STA 666+90.00 TO STA 671+00.00
(1) STA 666+90.00 TO STA 672+30.00
MATCH EXISTING SLOPE IN SUPERELEVATION SECTIONS



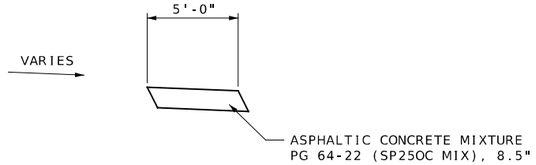
US ROUTE 50

STA 671+00.00 TO STA 673+51.66
(1) STA 666+90.00 TO STA 672+30.00
(2) STA 671+00.00 TO STA 677+07.21
MATCH EXISTING SLOPE IN SUPERELEVATION SECTIONS



US ROUTE 50

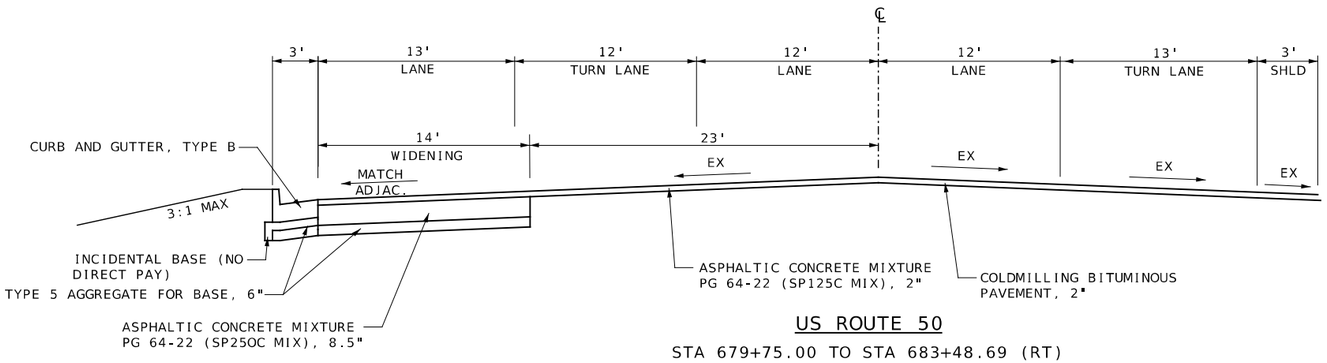
STA 673+51.66 TO STA STA 679+75.00 (RT)
STA 673+51.66 TO STA 680+20.98 (LT)
(2) STA 671+00.00 TO STA 677+07.21
(3) STA 674+80.98 TO STA 680+20.98



SHOULDER REPLACEMENT

SEE TRAFFIC CONTROL PLAN
FOR LOCATIONS

PAVEMENT REMOVAL



US ROUTE 50

STA 679+75.00 TO STA 683+48.69 (RT)
STA 680+20.98 TO STA 683+48.69 (LT)

TYPICAL SECTIONS
(SHEET 3 OF 6)

COLLIN J. WILCOX
NUMBER PE-2019035614
STATE OF MISSOURI
PROFESSIONAL ENGINEER
THIS SHEET HAS BEEN SIGNED, SEALED, AND DATED ELECTRONICALLY

DATE PREPARED 4/8/2024
ROUTE 50 | STATE MO
DISTRICT CD | SHEET NO. 2
COUNTY OSAGE
JOB NO. J5P3574
CONTRACT ID. .
PROJECT NO. .
BRIDGE NO. .

DATE	DESCRIPTION
.	.

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
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REV.

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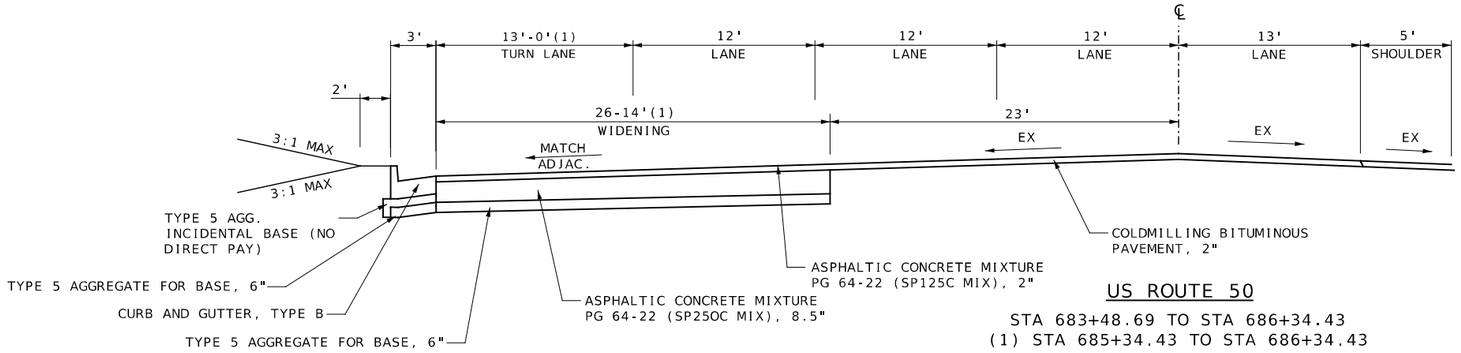
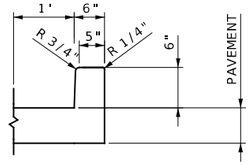
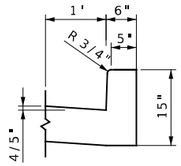


US ROUTE 50

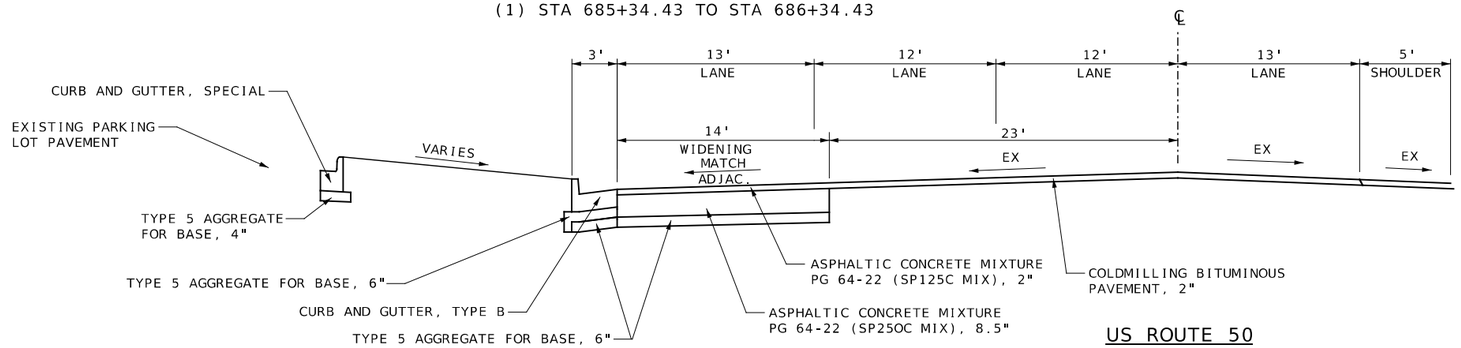
STA 683+48.69 TO STA 686+34.43
(1) STA 685+34.43 TO STA 686+34.43



TYPE A INTEGRAL CURB AND GUTTER DETAIL

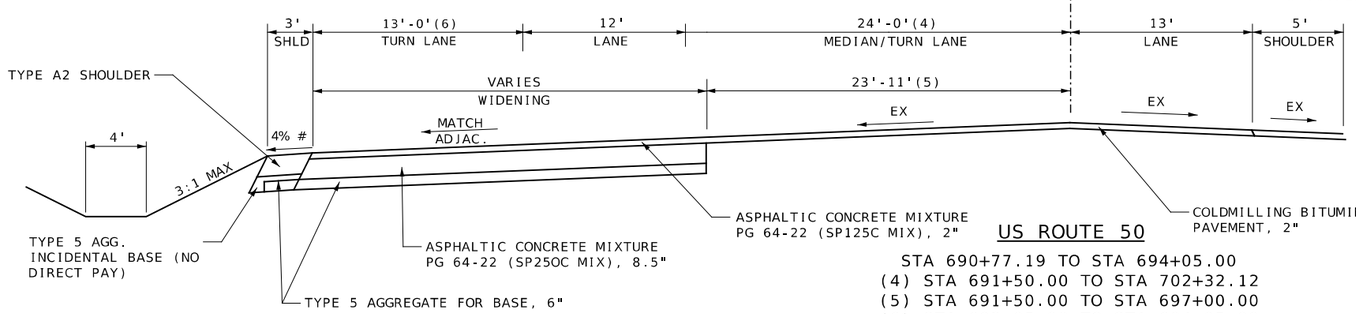


CURB AND GUTTER, SPECIAL DETAIL



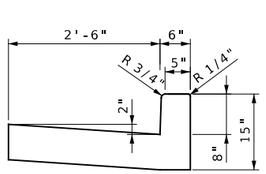
US ROUTE 50

STA 686+34.43 TO STA 690+77.19
MATCH EXISTING SLOPE IN SUPERELEVATION SECTIONS

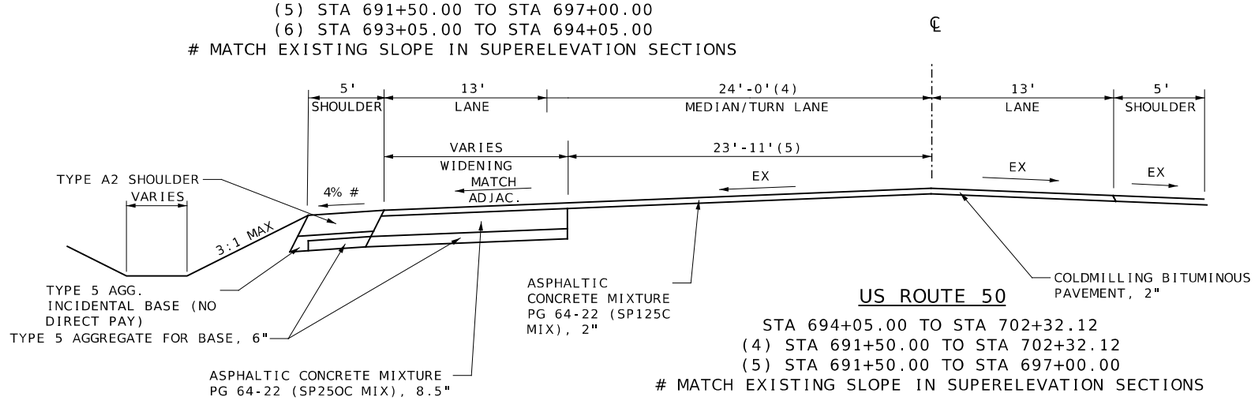


US ROUTE 50

STA 690+77.19 TO STA 694+05.00
(4) STA 691+50.00 TO STA 702+32.12
(5) STA 691+50.00 TO STA 697+00.00
(6) STA 693+05.00 TO STA 694+05.00
MATCH EXISTING SLOPE IN SUPERELEVATION SECTIONS



TYPE B CURB AND GUTTER DETAIL



US ROUTE 50

STA 694+05.00 TO STA 702+32.12
(4) STA 691+50.00 TO STA 702+32.12
(5) STA 691+50.00 TO STA 697+00.00
MATCH EXISTING SLOPE IN SUPERELEVATION SECTIONS

PAVEMENT REMOVAL

TYPICAL SECTIONS
(SHEET 4 OF 6)

COLLIN J. WILCOX
NUMBER PE-2019035614
STATE OF MISSOURI
PROFESSIONAL ENGINEER
THIS SHEET HAS BEEN SIGNED, SEALED, AND DATED ELECTRONICALLY

DATE PREPARED 4/8/2024
ROUTE 50 | STATE MO
DISTRICT CD | SHEET NO. 2
COUNTY OSAGE
JOB NO. J5P3574
CONTRACT ID. .
PROJECT NO. .
BRIDGE NO. .

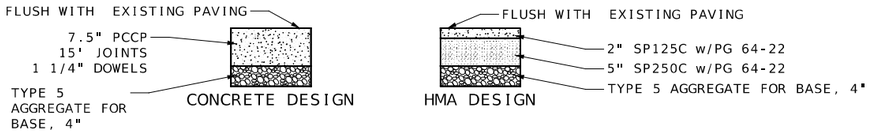
DESCRIPTION | DATE

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

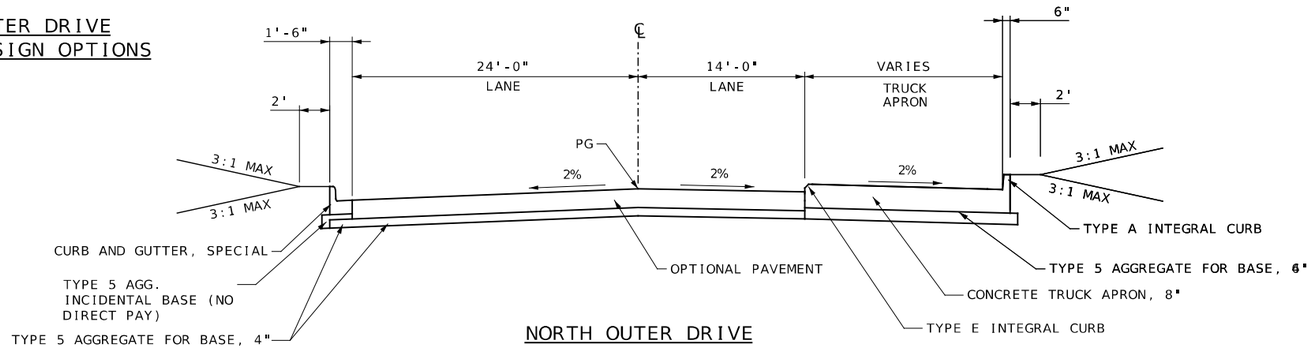
MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)
LOCHMUELLER GROUP
411 North 10th Street, Suite 200
St. Louis, MO 63101
Phone: 314.621.3395

REV.

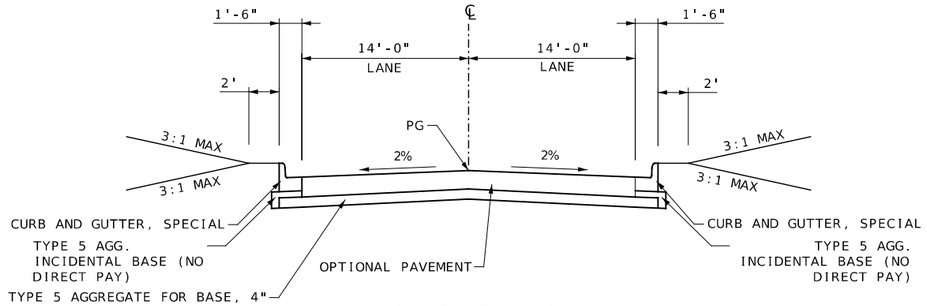
$FILE$ $TIME$ $DATE$



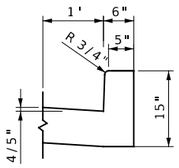
NORTH OUTER DRIVE
PAVEMENT DESIGN OPTIONS



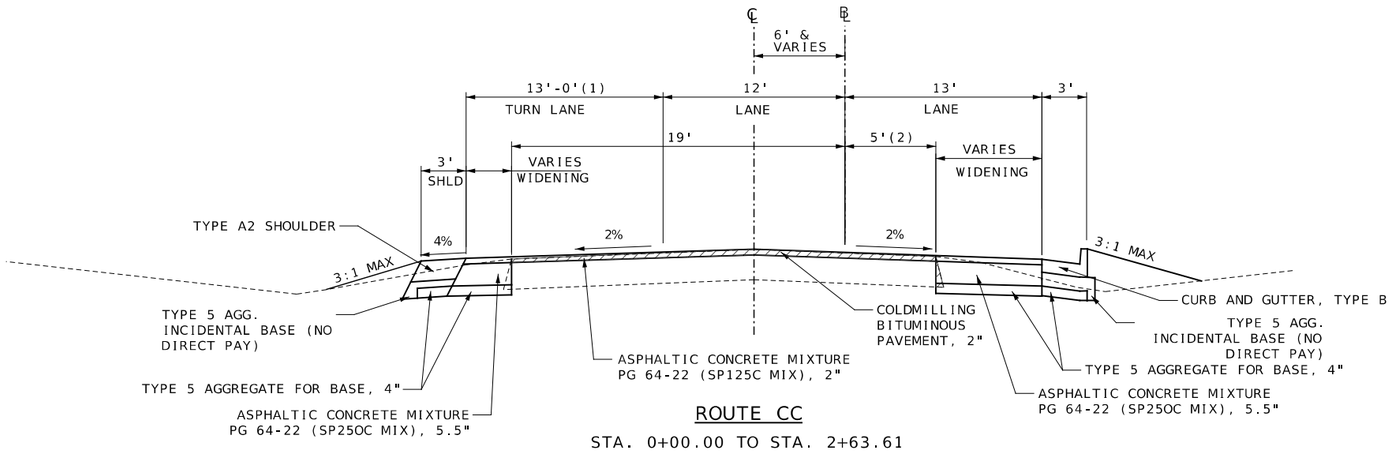
NORTH OUTER DRIVE
STA. 0+00.00 TO STA. 2+91.72



NORTH OUTER DRIVE
STA. 2+91.72 TO STA. 4+66.30



CURB AND GUTTER, SPECIAL DETAIL



ROUTE CC
STA. 0+00.00 TO STA. 2+63.61
(1) STA 1+63.61 TO STA 2+63.61
(2) VARIES 5' @ STA 1+63.61 TO 11' @ STA 4+23.61

PAVEMENT REMOVAL

TYPICAL SECTIONS
(SHEET 5 OF 6)

COLLIN J. WILCOX
NUMBER PE-2019035614
STATE OF MISSOURI
PROFESSIONAL ENGINEER
THIS SHEET HAS BEEN SIGNED, SEALED, AND DATED ELECTRONICALLY

DATE PREPARED
7/19/2024

ROUTE	STATE
50	MO
DISTRICT	SHEET NO.
CD	2

COUNTY
OSAGE

JOB NO.
J5P3574

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)
LOCHMUELLER GROUP
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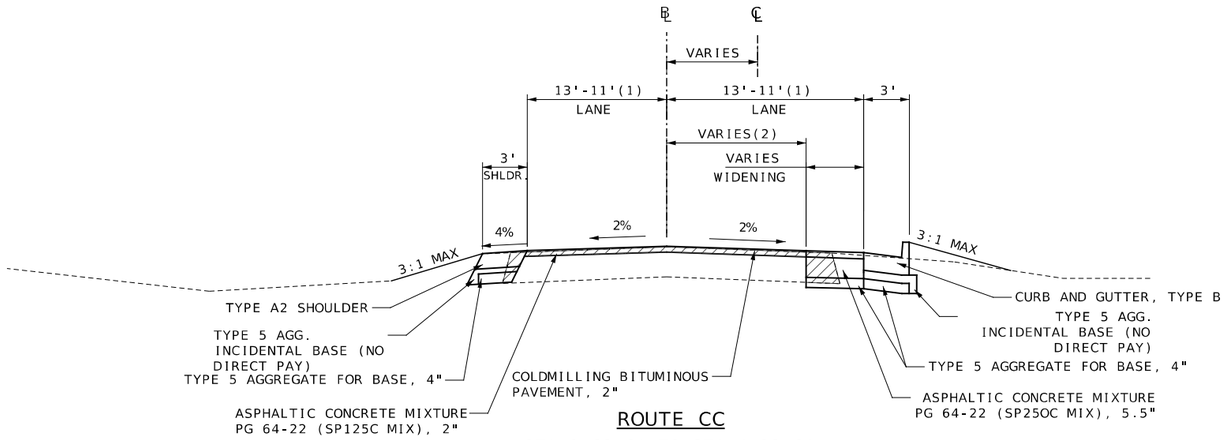
St. Louis, MO 63101
Phone: 314.621.3395

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

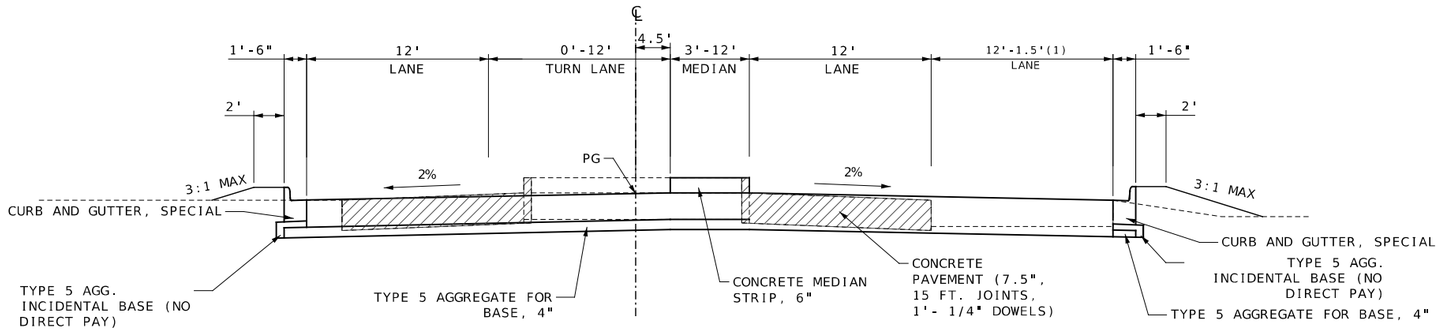
REV.

$FILE$ $TIME$ $DATE$



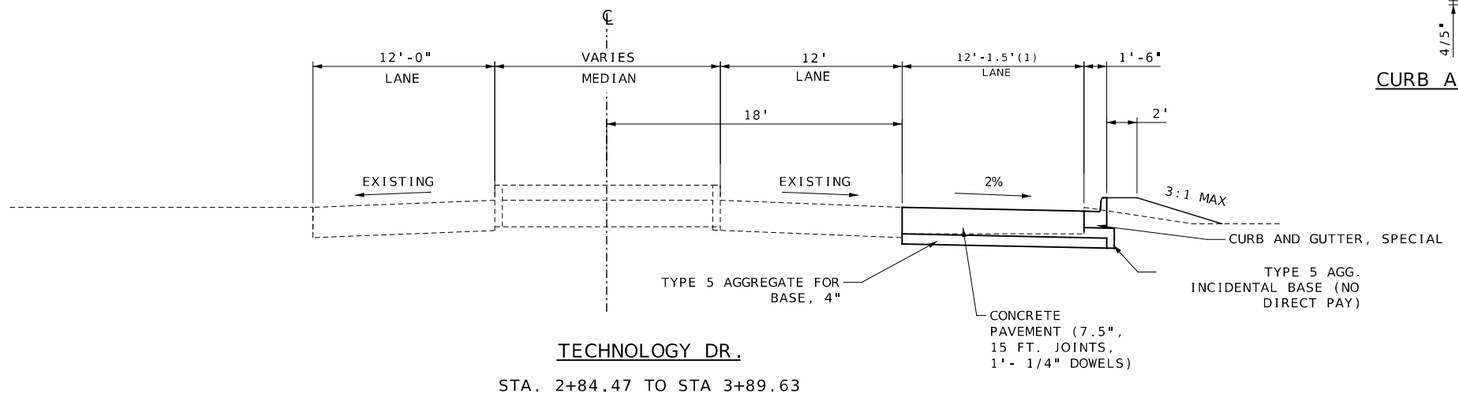
ROUTE CC

STA 2+63.61 TO STA 4+23.61
(1) STA 3+33.61 TO STA 4+23.61
(2) VARIES 5' @ STA 1+63.61 TO 11' @ STA 4+23.61



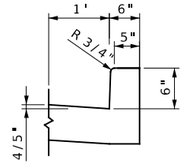
TECHNOLOGY DR.

STA 1+00.00 TO STA 2+84.47
(1) VARIES 12' @ STA 2+69.63 TO 1.5' @ STA 3+89.63



TECHNOLOGY DR.

STA. 2+84.47 TO STA 3+89.63
(1) VARIES 12' @ STA 2+69.63 TO 1.5' @ STA 3+89.63



CURB AND GUTTER, SPECIAL DETAIL

PAVEMENT REMOVAL

TYPICAL SECTIONS (SHEET 6 OF 6)

$FILE$ $TIME$ $DATE$

COLLIN J. WILCOX NUMBER PE-2019035614
STATE OF MISSOURI REGISTERED PROFESSIONAL ENGINEER
THIS SHEET HAS BEEN SIGNED, SEALED, AND DATED ELECTRONICALLY

DATE PREPARED 7/19/2024
ROUTE 50 | STATE MO
DISTRICT CD | SHEET NO. 2
COUNTY OSAGE
JOB NO. J5P3574
CONTRACT ID. .
PROJECT NO. .
BRIDGE NO. .

DESCRIPTION | DATE

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

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)
LOCHMUELLER GROUP
411 North 10th Street, Suite 200
St. Louis, MO 63101
Phone: 314.621.3395

REMOVAL OF IMPROVEMENTS

SHEET	FROM STATION	TO STATION	ROADWAY	LOCATION	DESCRIPTION
TC 9	665+84.94	673+69.88	ROUTE 50	RT	437 SY SHOULDER REMOVAL (TRAFFIC CONTROL)
PLAN 1-8	666+90	702+32.12	ROUTE 50	LT	3532 LF SAW CUT
PLAN 1-8	666+90	702+32.12	ROUTE 50	LT	898 SY ASPHALT PAVEMENT REMOVAL
PLAN 3	676+54.84	678+38.76	ROUTE 50	LT	306 SY PAVED APPROACH REMOVAL
PLAN 3-4	677+29.95	679+79.88	ROUTE 50	LT	262 LF SAW CUT
PLAN 3	677+58.96	678+99.32	ROUTE 50	LT	141 LF PIPE REMOVAL
PLAN 3	678+31.47	679+10.81	ROUTE 50	LT	87 LF CURB REMOVAL
PLAN 3	679+00.28	-	ROUTE 50	LT	INLET REMOVAL
PLAN 3-4	679+01.28	680+21.25	ROUTE 50	LT	121 LF PIPE REMOVAL
PLAN 3-4	679+05.42	680+19.99	ROUTE 50	LT	219 SY PAVED APPROACH REMOVAL
PLAN 4	679+79.86	679+89.51	ROUTE 50	LT	17 LF CURB REMOVAL
PLAN 4	680+22.75	-	ROUTE 50	LT	INLET REMOVAL
PLAN 4	680+23.52	680+82.76	ROUTE 50	LT	PIPE REMOVAL
PLAN 4	680+24.71	680+69.16	ROUTE 50	LT	97 SY PAVED APPROACH REMOVAL
PLAN 4	680+30.56	680+37.72	ROUTE 50	LT	25 LF CURB REMOVAL
PLAN 4	680+37.72	680+65.00	ROUTE 50	LT	28 LF SAWCUT
PLAN 4	680+59.85	680+64.43	ROUTE 50	LT	19 LF CURB REMOVAL
PLAN 4	680+83.48	-	ROUTE 50	LT	INLET REMOVAL
PLAN 4	680+83.55	680+84.48	ROUTE 50	LT	10 LF PIPE REMOVAL
PLAN 4	680+84.43	681+19.91	ROUTE 50	LT	36 LF PIPE REMOVAL
PLAN 4	680+89.44	681+13.26	ROUTE 50	LT	28 SY PAVED APPROACH REMOVAL
PLAN 4-5	683+35.93	684+73.92	ROUTE 50	LT	169 LF SAW CUT
PLAN 4-5	683+35.93	684+82.22	ROUTE 50	LT	990 SY PARKING LOT PAVEMENT REMOVAL
PLAN 4	683+58.25	-	ROUTE 50	LT	COMMERCIAL SIGN FOOTING (LAKESIDE BOOK CO)
PLAN 4-5	684+17.52	685+24.90	ROUTE 50	LT	674 SY PAVED APPROACH REMOVAL
PLAN 4-5	684+28.08	684+97.83	ROUTE 50	LT	70 LF PIPE REMOVAL
PLAN 4	684+43.37	684+56.84	ROUTE 50	LT	50 LF CURB REMOVAL
PLAN 4-5	684+56.00	684+75.00	ROUTE 50	LT	90 LF CURB REMOVAL
PLAN 5	684+72.87	684+87.61	ROUTE 50	LT	28 LF CURB REMOVAL
PLAN 5	684+95.05	685+24.90	ROUTE 50	LT	31 LF SAW CUT
PLAN 5	685+75.00	686+67.59	ROUTE 50	LT	593 SY PARKING LOT PAVEMENT REMOVAL
PLAN 5	685+82.20	686+67.59	ROUTE 50	LT	114 LF SAW CUT
PLAN 5	686+37.06	687+03.73	ROUTE 50	LT	341 SY PAVED APPROACH REMOVAL
PLAN 5	686+45.55	686+58.24	ROUTE 50	LT	59 LF CURB REMOVAL
PLAN 5	686+51.81	687+10.97	ROUTE 50	LT	60 LF PIPE REMOVAL
PLAN 5	686+71.22	686+79.51	ROUTE 50	LT	19 LF CURB REMOVAL
PLAN 5	686+79.51	687+46.17	ROUTE 50	LT	101 LF SAW CUT
PLAN 5	686+87.13	686+91.62	ROUTE 50	LT	18 LF CURB REMOVAL
PLAN 5	686+91.62	687+46.17	ROUTE 50	LT	207 SY PARKING LOT PAVEMENT REMOVAL
PLAN 5	687+13.38	-	ROUTE 50	LT	INLET REMOVAL
PLAN 5-6	687+48.10	690+23.94	ROUTE 50	LT	307 LF SAW CUT
PLAN 5-6	687+48.10	690+24.65	ROUTE 50	LT	62 SY PARKING LOT PAVEMENT REMOVAL
PLAN 6	690+07.45	691+26.01	ROUTE 50	LT	121 LF PIPE REMOVAL
TC 10-11	694+89.27	705+30.00	ROUTE 50	RT	579 SY SHOULDER REMOVAL (TRAFFIC CONTROL)
PLAN 7	697+07.03	697+15.94	ROUTE 50	LT	20 LF PIPE REMOVAL
PLAN 6	1+28.27	3+89.63	TECHNOLOGY DR	RT	589 SY PAVEMENT REMOVAL
PLAN 6, 10	1+75.36	2+85.61	TECHNOLOGY DR	LT/RT	239 LF CURB REMOVAL
PLAN 6, 10	2+84.47	3+89.63	TECHNOLOGY DR	LT/RT	147 LF SAW CUT
PLAN 4, 9	0+06.81	4+23.61	ROUTE CC	LT	460 LF SAW CUT
PLAN 4, 9	0+06.81	4+23.61	ROUTE CC	LT	195 SY PAVEMENT REMOVAL
PLAN 4, 9	0+26.50	4+23.61	ROUTE CC	RT	435 SAW CUT
PLAN 4, 9	0+26.50	4+23.61	ROUTE CC	RT	93 SY PAVEMENT REMOVAL
PLAN 9	1+66.79	-	ROUTE CC	LT/RT	35 LF PIPE REMOVAL
PLAN 9	1+74.69	2+65.58	ROUTE CC	RT	155 SY PAVED APPROACH REMOVAL
PLAN 9	2+28.11	2+99.95	ROUTE CC	LT	72 SY PAVED APPROACH REMOVAL
SIGNING 2	669+28.88	-	ROUTE 50	LT	OBJECT MARKER
SIGNING 3	676+64.09	-	ROUTE 50	LT	PROGRESS DRIVE
SIGNING 4	682+75.88	-	ROUTE 50	RT	ROUTE DESIGNATION SIGN
SIGNING 4	683+56.87	-	ROUTE 50	LT	ROUTE DESIGNATION SIGN
SIGNING 5	689+95.72	-	ROUTE 50	LT	CENTER LANE ONLY SIGN
SIGNING 7	697+02.61	-	ROUTE 50	LT	OBJECT MARKER
SIGNING 4	0+44.44	-	ROUTE CC	LT	STOP
SIGNING 4	0+88.35	-	ROUTE CC	RT	ROUTE DESIGNATION SIGN
SIGNING 6	1+48.12	-	TECHNOLOGY DR	LT	STOP SIGN
				PAY TOTAL	1 LUMP SUM

MOBILIZATION

LUMP SUM = 1

TEMPORARY TRAFFIC CONTROL

LUMP SUM = 1

CONTRACTOR FURNISHED SURVEYING & STAKING

LUMP SUM = 1

PERMANENT EROSION CONTROL

ROADWAY	SHEET	FROM STATION	TO STATION	LOCATION	TURF TYPE TALL FESCUE SODDING	TYPE 4 EROSION CONTROL BLANKET	SEEDING - COOL SEASON MIX	REMARKS
					(SY)	(SY)	(AC)	
RTE 50	1	666+89.87	668+40.90	LT		298.7	0.06	
RTE 50	2	668+40.00	673+04.29	LT		831.0	0.17	
RTE 50	4	679+80.42	684+70.11	LT	1089.0			
RTE CC	4	0+11.31	1+39.89	LT/RT	162.7	193.7	0.04	
RTE 50	5	684+70.00	690+00.00	LT	2039.5			
RTE 50	6	690+00.00	695+20.00	LT/RT	36.3	864.7	0.18	
RTE 50	7	695+20.00	700+50.00	LT		1782.9	0.37	
RTE 50	8	700+50.00	702+32.07	LT		619.2	0.13	
RTE CC	9	1+40.00	4+24.05	LT/RT	464.3	190.7	0.04	
Tech Dr	10	3+00.00	3+89.83	RT		64.7	0.01	
TOTAL					3791.8	4876	1.0	

AGGREGATE BASE COURSE SUMMARY (FOR INFORMATION ONLY)

ITEM	4" TYPE 5 AGG BASE	6" TYPE 5 AGG BASE	7" TYPE 5 AGG BASE	REMARKS
	(SY)	(SY)		
ASPHALT PAVEMENT WIDENING	471.3	7209.7		
TYPE A2 SHOULDER		998.6		
PAVED APPROACH, 8"	1004.8			
OPTIONAL PAVEMENT	2688.4			
CONCRETE PAVEMENT	1099.0			
6" BIT. PAVEMENT (PARKING LOTS)	289.1			
TYPE B CURB AND GUTTER		453.9		
SPECIAL CURB AND GUTTER		337.5		
TYPE A INTEGRAL CURB	11.7			
8" CONCRETE TRUCK APRON		314.6		
TYPE E INTEGRAL CURB	11.7			
8" CONCRETE MEDIAN			86.4	
CONCRETE CURB RAMP	52.0			
TOTAL	5628	9314	87	

TEMPORARY EROSION CONTROL

ROADWAY	SHEET	FROM STATION	TO STATION	LOCATION	SILT FENCE	CURB INLET CHECK	SEDIMENT TRAPS	ROCK DITCH CHECK	SEDIMENT REMOVAL	TEMPORARY SEEDING	REMARKS
					(LF)	(EA)	(CY)	(LF)	(CY)	(AC)	
RTE 50	1	665+84.94	666+40.00	RT	257.2				3		
RTE 50	1	666+95.00	666+40.00	LT				144.7	2		
RTE 50	2	668+40.00	672+84.37	LT				356.8	9		
RTE 50	2	668+40.00	672+19.38	RT	382.6				4		
RTE 50	2	672+69.01	673+80.86	RT	102.5				1		
RTE 50	2	669+12.88	669+29.02	LT			15				
RTE 50	3	677+58.27		LT		1					
RTE 50	3	679+00.19		LT		1					
RTE 50	4	680+21.43		LT		1					
RTE 50	4	680+34.31		LT		1					
RTE 50	4	680+83.93		LT		1					
RTE 50	4	682+71.56		LT		1					
RTE CC	4	0+99.27		RT		1					
RTE CC	4	0+31.00	1+40.00	LT	137.3				2		
RTE 50	4	681+20.28	682+71.47	LT				154.1	3		
N OUTER DR	5	2+78.44		LT		1					
N OUTER DR	5	3+38.19		LT		1					
N OUTER DR	5	4+21.18		LT		1					
RTE 50	5	685+30.00		LT		1					
RTE 50	5	687+12.54		LT		2					
RTE 50	5	687+24.54		RT			5				
TECH DR/ RTE 50	6	3+00.00	893+73.99	LT	397				4		
RTE 50	6	691+55.23	693+68.51	RT	210.8				2		
RTE 50	6	691+08.52		RT		1					
RTE 50	6	693+80.05	695+20.00	LT				143.4	2		
RTE 50	7	695+20.00	700+50.00	LT				517.4	11		
RTE 50	7		697+00.00	RT			5				
RTE 50	7	695+20.00	696+21.00	RT	101				1		
RTE 50	7	696+62.50	700+50.00	RT	388				4		
RTE 50	8	700+50.00	705+30.00	RT	487.9				5		
RTE 50	8	700+50.00	702+32.07	LT				183.6	4		
RTE CC	9	1+65.88		RT		2					
RTE CC	9	1+65.88		LT			5				
RTE CC	9	1+40.00	2+49.00	LT	109				1		
RTE CC	9	2+63.56	4+24.04	RT				162.9	3		
TECH DR	10	3+00.00	3+90.85	RT	91						
TOTALS					2664	16	30	1663	61	1	

QUANTITY SHEETS
1 OF 8

COLLIN J. WILCOX NUMBER PE-2019035614 PROFESSIONAL ENGINEER STATE OF MISSOURI

THIS SHEET HAS BEEN SIGNED, SEALED, AND DATED ELECTRONICALLY

DATE PREPARED 9/23/2024

ROUTE 50 | STATE MO

DISTRICT CD | SHEET NO. 3

COUNTY OSAGE

JOB NO. J5P3574

CONTRACT ID. .

PROJECT NO. .

BRIDGE NO. .

DATE	DESCRIPTION
.	.

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

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

LOCHMUELLER GROUP
411 North 10th Street, Suite 200
St. Louis, MO 63101
Phone: 314.621.3395

$FILE$ $TIME$ $DATE$

EARTHWORK

ROADWAY	FROM STATION	TO STATION	CLASS A EXCAVATION (CY)	COMPACTING EMBANKMENT (CY)	REMARKS
ROUTE 50	666+83.94	667+00.00	0.0	0	
ROUTE 50	667+00.00	667+50.00	3.3	0	
ROUTE 50	667+50.00	668+00.00	25.1	0.4	
ROUTE 50	668+00.00	668+50.00	37.3	1.9	
ROUTE 50	668+50.00	669+00.00	49.2	39.8	
ROUTE 50	669+00.00	669+18.86	34.8	115.8	
ROUTE 50	669+18.86	669+50.00	5.6	76.5	
ROUTE 50	669+50.00	670+00.00	16.0	105.2	
ROUTE 50	670+00.00	670+50.00	65.5	46.2	
ROUTE 50	670+50.00	671+00.00	80.6	2.6	
ROUTE 50	671+00.00	671+50.00	55.4	0	
ROUTE 50	671+50.00	672+00.00	38.1	0	
ROUTE 50	672+00.00	672+50.00	34.7	0	
ROUTE 50	672+50.00	673+00.00	44.4	0	
ROUTE 50	673+00.00	673+22.68	45.8	0	
ROUTE 50	673+22.68	673+46.44	21.5	0	
ROUTE 50	673+46.44	673+50.00	27.3	0	
ROUTE 50	673+50.00	674+00.00	4.2	0	
ROUTE 50	674+00.00	674+50.00	41.4	0.2	
ROUTE 50	674+50.00	675+00.00	22.0	0.4	
ROUTE 50	675+00.00	675+50.00	19.6	0.4	
ROUTE 50	675+50.00	676+00.00	20.1	0.4	
ROUTE 50	676+00.00	676+44.37	21.3	0.4	
ROUTE 50	676+44.37	676+50.00	28.9	0.2	
ROUTE 50	676+50.00	676+97.14	4.9	0	
ROUTE 50	676+97.14	677+00.00	40.6	0	
ROUTE 50	677+00.00	677+50.00	2.5	0	
ROUTE 50	677+50.00	677+80.55	38.0	0	
ROUTE 50	677+80.55	678+00.00	21.5	0	
ROUTE 50	678+00.00	678+50.00	14.2	0	
ROUTE 50	678+50.00	679+00.00	36.0	0.1	
ROUTE 50	679+00.00	679+45.42	35.6	0.2	
ROUTE 50	679+45.42	679+50.00	39.8	0	
ROUTE 50	679+50.00	680+00.00	4.9	0	
ROUTE 50	680+00.00	680+47.47	45.9	0.1	
ROUTE 50	680+47.47	680+50.00	52.9	0.1	
ROUTE 50	680+50.00	681+00.00	3.7	0	
ROUTE 50	681+00.00	681+03.89	77.8	0	
ROUTE 50	681+03.89	681+50.00	6.4	0	
ROUTE 50	681+50.00	682+00.00	58.7	14.3	
ROUTE 50	682+00.00	682+50.00	42.5	34.9	
ROUTE 50	682+50.00	683+00.00	37.7	41.3	
ROUTE 50	683+00.00	683+50.00	17.9	21.9	
ROUTE 50	683+50.00	684+00.00	0.0	0	
ROUTE 50	684+00.00	684+50.00	8.0	15.3	
ROUTE 50	684+50.00	685+00.00	72.4	15.8	
ROUTE 50	685+00.00	685+50.00	81.4	13.6	
ROUTE 50	685+50.00	686+00.00	48.6	20.4	
ROUTE 50	686+00.00	686+50.00	62.5	15	
ROUTE 50	686+50.00	687+00.00	42.7	48.2	
ROUTE 50	687+00.00	687+50.00	24.9	63.5	
ROUTE 50	687+50.00	687+84.70	21.1	71.1	
ROUTE 50	687+84.70	688+00.00	10.9	61.3	
ROUTE 50	688+00.00	688+50.00	4.7	23.2	
ROUTE 50	688+50.00	689+00.00	16.3	55.9	

EARTHWORK

ROADWAY	FROM STATION	TO STATION	CLASS A EXCAVATION (CY)	COMPACTING EMBANKMENT (CY)	REMARKS
ROUTE 50	689+00.00	689+50.00	16.5	43.7	
ROUTE 50	689+50.00	690+00.00	16.6	45.2	
ROUTE 50	690+00.00	690+50.00	16.4	27.3	
ROUTE 50	690+50.00	691+00.00	18.6	5.3	
ROUTE 50	691+00.00	691+50.00	23.1	0	
ROUTE 50	691+50.00	692+00.00	19.1	56.2	
ROUTE 50	694+50.00	695+00.00	21.2	31.3	
ROUTE 50	695+00.00	695+50.00	31.0	38.9	
ROUTE 50	695+50.00	695+50.20	32.4	51.2	
ROUTE 50	695+50.20	696+00.00	0.1	0.2	
ROUTE 50	696+00.00	696+50.00	35.2	53	
ROUTE 50	696+50.00	697+00.00	64.3	43.7	
ROUTE 50	697+00.00	697+50.00	93.6	69.7	
ROUTE 50	697+50.00	698+00.00	125.5	52.6	
ROUTE 50	698+00.00	698+50.00	147.4	0	
ROUTE 50	698+50.00	699+00.00	150.0	0	
ROUTE 50	699+00.00	699+07.94	205.1	0	
ROUTE 50	699+07.94	699+50.00	40.8	0	
ROUTE 50	699+50.00	700+00.00	239.0	0	
ROUTE 50	700+00.00	700+50.00	342.3	0	
ROUTE 50	700+50.00	701+00.00	379.8	0	
ROUTE 50	701+00.00	701+50.00	309.2	0	
ROUTE 50	701+50.00	702+00.00	192.6	0	
ROUTE 50	702+00.00	702+32.12	104.1	0.1	
ROUTE 50	702+32.12	702+50.00	18.5	0.1	
ROUTE CC	0+00.00	0+71.18	38.4	44.5	
ROUTE CC	0+71.18	0+99.89	18.0	12.2	
ROUTE CC	0+99.89	1+00.00	0.1	0	
ROUTE CC	1+00.00	2+00.00	90.6	23	
ROUTE CC	2+00.00	2+17.32	19.4	2.7	
ROUTE CC	2+17.32	2+32.63	18.5	0.6	
ROUTE CC	2+32.63	2+65.14	45.3	1	
ROUTE CC	2+86.14	3+00.00	37.7	6	
ROUTE CC	3+00.00	4+00.00	66.8	39.9	
ROUTE CC	4+00.00	4+22.30	11.6	9.9	
N OUTER DR	0+00.00	1+00.00	155.4	0	
N OUTER DR	1+00.00	1+50.00	235.4	0	
N OUTER DR	1+50.00	2+00.00	303.5	0	
N OUTER DR	2+00.00	2+50.00	240.2	0	
N OUTER DR	2+50.00	3+00.00	202.6	0	
N OUTER DR	3+00.00	3+50.00	179.9	0	
N OUTER DR	3+50.00	4+00.00	136.7	3.6	
N OUTER DR	4+00.00	4+50.00	111.5	0	
N OUTER DR	4+50.00	4+95.90	75.0	0	
TECHNOLOGY DR	1+00.00	2+00.00	92.0	14.6	
TECHNOLOGY DR	2+00.00	2+50.00	97.5	18.4	
TECHNOLOGY DR	2+50.00	3+00.00	77.5	12.5	
TECHNOLOGY DR	3+00.00	3+50.00	46.8	2.7	
TECHNOLOGY DR	3+50.00	3+89.63	30.4	1.5	
TOTALS			6690.3	1618.2	

EARTHWORK SUMMARY

PHASE	CLASS A EXCAVATION (CY)	COMPACTING EMBANKMENT (CY)	REMARKS
PHASE 1A	173.2	69.9	
PHASE 1B	173.2	69.9	
PHASE 1C	1241.3	524.3	
PHASE 2B	2218.9	388.6	
PHASE 3A	1648.0	114.9	
PHASE 3B	812.6	74.4	
PHASE 3C	423.2	376.2	
TOTAL	6690	1618	

COLLIN J. WILCOX NUMBER PE-2019035614 PROFESSIONAL ENGINEER STATE OF MISSOURI

THIS SHEET HAS BEEN SIGNED, SEALED, AND DATED ELECTRONICALLY

DATE PREPARED 4/8/2024

ROUTE	STATE
50	MO
DISTRICT	SHEET NO.
CD	3

COUNTY: OSAGE

JOB NO.: J5P3574

CONTRACT ID.: .

PROJECT NO.: .

BRIDGE NO.: .

DESCRIPTION	DATE
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MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

105 WEST CAPITOL
JEFFERSON CITY, MO 65102
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LOCHMUELLER GROUP
411 North 10th Street, Suite 200
St. Louis, MO 63101
Phone: 314.621.3395

QUANTITY SHEETS 2 OF 8

ASPHALTIC CONCRETE MIXTURE										
PLAN SHEET	STAGE	ROADWAY	FROM STATION	TO STATION	LOCATION	ASPHALTIC CONCRETE MIXTURE PG 64-22 (SP250C MIX)	ASPHALTIC CONCRETE MIXTURE PG 64-22 (SP125C MIX)	TYPE 5 AGG. BASE 6 IN. THICK	TYPE 5 AGG. BASE 4 IN. THICK	REMARKS
						(TONS)	(TONS)	(SY)	(SY)	
4, 9	1A	RTE CC	0+06.91	4+23.61	LT	63.1	92.0	137.5	137.5	
4, 9	1B	RTE CC	0+26.61	4+23.61	RT	153.1	160.5	333.8	333.8	
5-7	1C	ROUTE 50	689+60.14	698+71.00	LT/RT	805.7	574.9	1756.3		
1-4	2A	ROUTE 50	664+04.94	682+69.94	RT	416.2		907.2		
4-8	2A	ROUTE 50	684+07.00	705+47.89	RT	598.0		1303.5		
1-2	2B	ROUTE 50	666+90.00	673+03.77	LT/RT	249.9	274.0	544.7		
7-8	2B	ROUTE 50	698+71.00	702+32.12	LT/RT	108.5	145.2	236.5		
2-4	3A	ROUTE 50	673+03.77	684+26.00	LT/RT	654.7	643.9	1427.0		
4-5	3B	ROUTE 50	684+08.09	686+35.64	LT/RT	258.4	163.4	563.2		
					TOTALS	3307.6	2053.9	7209.7	471.3	

TYPE A2 SHOULDER								
PLAN SHEET	STAGE	ROADWAY	FROM STATION	TO STATION	LOCATION	TYPE A2 SHOULDER	TYPE 5 AGG. BASE 6 IN. THICK	REMARKS
						(SY)	(SY)	
4	1A	RTE CC	0+08.56	1+40.00	LT	55.6	55.6	
9	1A	RTE CC	1+40.00	4+22.89	LT	62.4	62.4	
6	1C	RTE 50	691+36.17	695+20.00	LT	158.3	158.3	
7	1C	RTE 50	695+20.00	698+71.18	LT	195.7	195.7	
1	2B	RTE 50	666+89.87	668+40.00	LT	82.8	82.8	
2	2B	RTE 50	668+40.00	672+94.01	LT	247.1	247.1	
7	2B	RTE 50	698+71.18	700+50.00	LT	96.8	96.8	
8	2B	RTE 50	700+50.00	702+32.35	LT	100.0	100.0	
					TOTALS	998.6	998.6	

ENTRANCES							
PLAN SHEET	ROADWAY	FROM STATION	TO STATION	LOCATION	PAVED APPROACH, 8"	TYPE 5 AGG. BASE 4 IN. THICK	REMARKS
					(SY)	(SY)	
2	RTE 50	672+82.73	673+53.32	LT	120.7	120.7	
3	RTE 50	676+24.64	676+69.96	LT	76.2	76.2	
3	RTE 50	676+69.96	677+24.04	LT	97.2	97.2	
3	RTE 50	677+24.04	678+36.05	LT	127.1	127.1	
4	RTE 50	679+05.42	679+90.15	LT	106.4	106.4	
4	RTE 50	680+25.81	680+76.86	LT	60.8	60.8	
4	RTE 50	680+88.39	681+49.59	LT	127.3	127.3	
4	N. OUTER	1+96.64	2+03.20	LT	17.1	17.1	
5	N. OUTER	2+00.84	2+11.64	LT	31.1	31.1	
9	RTE CC	1+79.12	2+58.07	RT	122.3	122.3	
9	RTE CC	2+28.89	3+22.64	LT	118.6	118.6	
TOTAL					1004.8	1004.8	

COLDMILL BITUMINOUS PAVEMENT								
PLAN SHEET	STAGE	ROADWAY	FROM STATION	TO STATION	LOCATION	TACK COAT	COLDMILL BIT. PVMT. 3" OR LESS	REMARKS
						(GAL)	(SY)	
4	1A	RTE CC	0+08.56	1+40.00	LT	11.1	222.2	
9	1A	RTE CC	1+40.00	4+23.00	LT	7.9	157.8	
4	1B	RTE CC	0+26.61	1+40.00	RT	12.7	253.4	
9	1B	RTE CC	1+40.00	4+24.15	RT	18.1	362.9	
5	1C	RTE 50	689+59.38	690+00.00	LT	5.2	104.4	
6	1C	RTE 50	690+00.00	695+20.00	LT	58.4	1167.2	
7	1C	RTE 50	695+20.00	698+71.18	LT	23.4	468.5	
1	2A	RTE 50	666+90.00	668+40.00	RT	14.6	292.2	
2	2A	RTE 50	668+40.00	673+90.00	RT	52.6	1051.6	
3	2A	RTE 50	673+90.00	679+30.00	RT	54.0	1080.0	
4	2A	RTE 50	679+30.00	684+70.00	RT	67.8	1355.0	
5	2A	RTE 50	684+70.00	690+00.00	RT	51.6	1031.6	
6	2A	RTE 50	690+00.00	695+20.00	RT	51.0	1019.9	
7	2A	RTE 50	695+20.00	700+50.00	RT	50.2	1003.8	
8	2A	RTE 50	700+50.00	702+32.12	RT	17.5	350.3	
1	2B	RTE 50	666+90.00	668+40.00	LT	9.1	182.9	
2	2B	RTE 50	668+40.00	673+03.97	LT	22.8	455.1	
7	2B	RTE 50	698+71.18	700+50.00	LT	10.8	215.3	
8	2B	RTE 50	700+50.00	702+32.12	LT	11.1	221.7	
2	3A	RTE 50	673+03.97	673+90.00	LT	6.6	131.8	
3	3A	RTE 50	673+90.00	679+30.00	LT	63.4	1267.5	
4	3A	RTE 50	679+30.00	684+08.09	LT	61.1	1221.8	
4	3B	RTE 50	684+08.09	684+70.00	LT	7.9	158.2	
5	3B	RTE 50	684+70.00	686+35.87	LT	21.2	423.9	
5	3C	RTE 50	686+35.87	689+58.42	LT	41.4	827.9	
					TOTALS	752.0	15027	

QUANTITY SHEETS
3 OF 8

$FILE$ $TIME$ $DATE$

COLLIN J. WILCOX NUMBER PE-2019035614
STATE OF MISSOURI REGISTERED PROFESSIONAL ENGINEER
THIS SHEET HAS BEEN SIGNED, SEALED, AND DATED ELECTRONICALLY

DATE PREPARED 7/19/2024
ROUTE 50 | STATE MO
DISTRICT CD | SHEET NO. 3
COUNTY OSAGE
JOB NO. J5P3574
CONTRACT ID. .
PROJECT NO. .
BRIDGE NO. .

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

LOCHMUELLER GROUP
411 North 10th Street, Suite 200
St. Louis, MO 63101
Phone: 314.621.3395

OPTIONAL PAVEMENT CONCRETE DESIGN: 7.5" PCCP, 15' JOINTS, 1 1/4" DOWELS ASPHALT DESIGN: 2" SP125C w/PG 64-22, 5" SP250C w/PG 64-22								
PLAN SHEET	STAGE	ROADWAY	FROM STATION	TO STATION	LOCATION	OPTIONAL PAVEMENT	TYPE 5 AGG. BASE 4 IN. THICK	REMARKS
						(SY)	(SY)	
4	3A	N OUTER DR	0+33.49	2+19.62	LT/RT	1083.0	1083.0	
5	3B	N OUTER DR	2+19.62	3+84.44	LT/RT	1129.0	1129.0	
5	3C	N OUTER DR	3+84.44	4+95.90	LT/RT	476.4	476.4	
					TOTALS	2688.4	2688.4	

6" BITUMINOUS PAVEMENT (PARKING LOTS)								
PLAN SHEET	STAGE	ROADWAY	FROM STATION	TO STATION	LOCATION	6 INCHES, BITUMINOUS PAVEMENT (PARKING LOTS)	TYPE 5 AGG. BASE 4 IN. THICK	REMARKS
						(SY)	(SY)	
5	3B	N OUTER DR	3+34.11	4+14.48	LT	289.10	289.10	
					TOTALS	289.10	289.10	

SPECIAL CURB AND GUTTER								
PLAN SHEET	STAGE	ROADWAY	FROM STATION	TO STATION	LOCATION	CURB AND GUTTER, SPECIAL	TYPE 5 AGG. BASE 6 IN. THICK	REMARKS
						(LF)	(SY)	
4, 9	1B	RTE CC	0+32.81	4+23.98	RT	329.1	73.1	
6-7	1C	ROUTE 50	689+61.57	690+24.41	LT	88.5	19.7	
4	2A	ROUTE 50	682+69.94	682+82.27	RT	12.5	2.8	
4-5	3A	ROUTE 50	682+43.95	684+87.65	LT	299.8	66.6	
5	3B	ROUTE 50	685+23.30	686+35.18	LT	347.6	77.2	
5	3C	ROUTE 50	686+35.18	689+61.57	LT	441.3	98.1	
					TOTALS	1519	337.5	

TYPE S CURB							
PLAN SHEET	STAGE	ROADWAY	FROM STATION	TO STATION	LOCATION	CURB, TYPE S	REMARKS
						(LF)	
9	1B	RTE CC	1+76.43	2+58.06	RT	61.9	
5-6	1C	TECHNOLOGY DRIVE	LT	1+50.45	2+84.67	177.0	
7, 10	1C	TECHNOLOGY DRIVE	RT	1+42.50	3+89.78	261.5	
2-3	3A	ROUTE 50	LT	673+51.82	676+26.37	281.1	
3	3A	ROUTE 50	LT	677+17.14	677+30.55	31.0	
4	3A	ROUTE 50	LT	679+79.92	681+24.34	131.4	
					TOTALS	943.9	

8" CONCRETE TRUCK APRON (NON-REINFORCED AND TINTED)								
PLAN SHEET	STAGE	ROADWAY	FROM STATION	TO STATION	LOCATION	CONCRETE TRUCK APRON, 8"	TYPE 5 AGG. BASE 6 IN. THICK	REMARKS
						(SY)	(SY)	
4	3A	NORTH OUTER DRIVE	0+84.46	2+14.28	RT	239.1	239.1	
5	3B	NORTH OUTER DRIVE	2+02.80	2+90.07	RT	75.5	75.5	
					TOTALS	314.6	314.6	

CONCRETE PAVEMENT								
PLAN SHEET	STAGE	ROADWAY	FROM STATION	TO STATION	LOCATION	CONCRETE PAVEMENT (7.5",15 FT JOINTS, 1 1/4"	TYPE 5 AGG. BASE 4 IN. THICK	REMARKS
						(SY)	(SY)	
6	1C	TECHNOLOGY DR	1+48.13	3+00.00	LT/RT	1039.4	1039.4	
10	1C	TECHNOLOGY DR	3+00.00	3+89.63	RT	59.6	59.6	
					TOTALS	1099.0	1099.0	

TYPE B CURB AND GUTTER								
PLAN SHEET	STAGE	ROADWAY	FROM STATION	TO STATION	LOCATION	CURB AND GUTTER, TYPE B	TYPE 5 AGG. BASE 6 IN. THICK	REMARKS
						(LF)	(SY)	
2-3	3A	ROUTE 50	673+53.32	676+24.90	LT	271.7	105.7	
3	3A	ROUTE 50	678+30.34	679+09.11	LT	78.8	30.6	
4	3A	ROUTE 50	679+90.15	682+43.95	LT	253.8	98.7	
4	3A	ROUTE 50	684+20.03	684+28.01	LT	8.0	3.1	
4-5	3B	ROUTE 50	684+28.01	686+34.58	LT	207.3	80.6	
5	3C	ROUTE 50	686+34.58	689+60.28	LT	327.7	127.4	
5	1C	ROUTE 50	689+60.28	689+79.84	LT	20.0	7.8	
					TOTALS	1167	453.9	

TYPE A INTEGRAL CURB								
PLAN SHEET	STAGE	ROADWAY	FROM STATION	TO STATION	LOCATION	INTEGRAL CURB, TYPE A	TYPE 5 AGG. BASE 4 IN. THICK	REMARKS
						(LF)	(SY)	
4	3A	NORTH OUTER DRIVE	0+92.32	2+02.80	RT	76.0	4.2	
5	3B	NORTH OUTER DRIVE	2+02.80	2+91.72	RT	80.7	4.5	
					TOTALS	157	8.7	

COLLIN J. WILCOX NUMBER PE-2019035614 PROFESSIONAL ENGINEER STATE OF MISSOURI

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DATE PREPARED 4/8/2024

ROUTE 50 | STATE MO

DISTRICT CD | SHEET NO. 3

COUNTY OSAGE

JOB NO. J5P3574

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)

LOCHMUELLER GROUP
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QUANTITY SHEETS
4 OF 8

$FILE$ $TIME$ $DATE$

TYPE E INTEGRAL CURB

PLAN SHEET	STAGE	ROADWAY	FROM STATION	TO STATION	LOCATION	INTEGRAL CURB, TYPE E	TYPE 5 AGG. BASE 4 IN. THICK	REMARKS
						(LF)	(SY)	
4	3A	NORTH OUTER DRIVE	0+83.89	2+14.39	RT	135.6	7.5	
5	3B	NORTH OUTER DRIVE	2+14.39	2+91.72	RT	75.3	4.2	
					TOTALS	210.9	11.7	

8" CONCRETE MEDIAN

PLAN SHEET	STAGE	ROADWAY	FROM STATION	TO STATION	LOCATION	CONCRETE MEDIAN, 8"	TYPE 5 AGG. BASE 7 IN. THICK	REMARKS
						(SY)	(SY)	
2-3	3A	RTE CC	673+52.32	676+25.87	LT	60.7	60.7	
3	3A	RTE CC	678+28.49	679+10.12	LT	25.7	25.7	
					TOTALS	86.4	86.4	

6" CONCRETE MEDIAN STRIP

PLAN SHEET	STAGE	ROADWAY	FROM STATION	TO STATION	LOCATION	CONCRETE MEDIAN STRIP, 6"	REMARKS
						(SY)	
6	1C	TECHNOLOGY DRIVE	1+73.24	2+84.40	RT	64.2	
					TOTALS	64.2	

CONCRETE CURB RAMP

PLAN SHEET	STAGE	ROADWAY	FROM STATION	TO STATION	LOCATION	CONCRETE CURB RAMP	TYPE 5 AGG. BASE 4 IN. THICK	TRUNCATED DOMES	REMARKS
						(SY)	(SY)	(SF)	
4	1B	RTE CC	0+34.82	0+45.48	RT	5.2	5.2	11.4	
6	1C	TECHNOLOGY DRIVE	1+48.45	1+63.68	RT	10.9	10.9	24.1	
6	1C	TECHNOLOGY DRIVE	1+58.68	1+63.71	LT	6.7	6.7	19.4	
6	2A	RTE CC	691+21.32	691+26.35	RT	6.7	6.7	10.0	
4	3A	NORTH OUTER DRIVE	0+41.59	0+52.90	LT	17.2	17.2	33.6	
4	3A	NORTH OUTER DRIVE	0+94.11	1+17.71	RT	5.3	5.3	11.9	
					TOTALS	52.0	52.0	110	

PERMANENT PAVEMENT MARKING

PAVEMENT MARKING PLAN SHEET	ROADWAY	FROM STATION	TO STATION	HIGH-BUILD WATERBORNE MARKING PAINT (TYPE L BEADS)				PREFORMED THERMOPLASTIC PAVEMENT MARKINGS					REMARKS
				6" SOLID WHITE	6" INTER. WHITE	4" DOUBLE YELLOW	4" SOLID/INTER. YELLOW	24" SOLID WHITE	24" SOLID YELLOW	ARROWS LEFT	ARROWS RIGHT	"ONLY" SYMBOL	
				(LF)	(LF)	(LF)	(LF)	(LF)	(LF)	(EA)	(EA)	(EA)	
1	ROUTE 50	666+90	668+40	300		300			8				
2	ROUTE 50	668+40	673+90	1077		779	298		76	2			
3	ROUTE 50	673+90	679+30	1081			1081			4			
4	ROUTE 50	679+30	684+70	2408	37	629	162	334		7	2		
5	ROUTE 50	684+70	690+00	2739	276	747		37		7	1	4	
6	ROUTE 50	690+00	695+20	1445	97	836		250	223	2	3		
7	ROUTE 50	695+20	700+50	1056		834	222		121	1			
8	ROUTE 50	700+50	702+32.12	354		364			8				
9	ROUTE CC	1+40	4+23.61	487		284							
			SUB TOTALS	10957	410	4773	1763	621	436	23	6	4	
			LENGTH TOTALS	10957	103	9546	2204						
			PAY TOTALS	11060		11750		621	436	29		4	

ROCK DITCH LINING

ROADWAY	FROM STATION	TO STATION	LOCATION	LENGTH	WIDTH	FURNISHING TYPE 1 ROCK DITCH LINER	PLACING TYPE 1 ROCK DITCH LINER	FURNISHING TYPE 2 ROCK DITCH LINER	PLACING TYPE 2 ROCK DITCH LINER	FURNISHING TYPE 3 ROCK DITCH LINER	PLACING TYPE 3 ROCK DITCH LINER	ROCK LINING	REMARKS
				(FT)	(FT)	(CY)	(CY)	(CY)	(CY)	(CY)	(CY)	(CY)	
RTE 50	666+90.00	667+65.00	LT	75	4	7.4	7.4						
RTE 50	667+65.00	669+00.00	LT	135	4					36.7	36.7		
RTE 50	669+20.97	-	LT	18	9							9.0	CULVERT EXTENSION
RTE 50	669+40.00	670+15.00	LT	75	4					20.4	20.4		
RTE 50	670+15.00	672+80.00	LT	265	4			39.3	39.3				
RTE 50	694+14.00	695+70.00	LT	155	4	15.3	15.3						
RTE 50	695+70.00	697+00.00	LT	130	8	25.7	25.7						
RTE 50	696+99.81	-	LT	15	9							7.5	CULVERT EXTENSION
RTE 50	696+99.81	-	RT	30	12							26.7	CULVERT EXTENSION
RTE 50	698+45.00	702+35.00	LT	390	4	38.5	38.5						
TOTAL						87	87	39	39	57	57	43	

PAVEMENT MARKING REMOVAL

STA.	STA.	LOCATION	LENGTH	REMARKS
			(FT)	
665+35.27	689+75.77	LT	2428	SOLID WHITE
665+35.92	673+72.57	CENTER	825	DOUBLE YELLOW
665+35.35	682+72.91	RT	1729	SOLID WHITE
673+72.57	682+72.91	CENTER LT	899	SOLID/DASHED DOUBLE YELLOW
673+72.57	682+72.91	CENTER RT	899	SOLID/DASHED DOUBLE YELLOW
680+95.35	682+72.91	RT	195	SOLID WHITE
684+27.92	696+13.00	CENTER LT	1371	SOLID/DASHED DOUBLE YELLOW
684+27.92	696+13.00	CENTER RT	1350	SOLID/DASHED DOUBLE YELLOW
684+27.92	704+82.10	RT	2111	SOLID WHITE
696+13.00	704+82.10	CENTER	779	DOUBLE YELLOW
698+71.04	704+82.10	LT	603	SOLID WHITE
TOTAL			13189	

QUANTITY SHEETS
5 OF 8

$FILE$ $TIME$ $DATE$

STATE OF MISSOURI
COLLIN J. WILCOX
NUMBER PE-2019035614
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED, AND DATED ELECTRONICALLY

DATE PREPARED
9/23/2024

ROUTE	STATE
50	MO

DISTRICT	SHEET NO.
CD	3

COUNTY
OSAGE

JOB NO.
J5P3574

CONTRACT ID.
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PROJECT NO.
.

BRIDGE NO.
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DESCRIPTION	DATE
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MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
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SIGNAL EQUIPMENT					
ITEM	DESCRIPTION	UNIT	QUANTITY (RTE 50 & RTE CC)	QUANTITY (RTE 50 & TECH DR)	TOTAL
9011030	LIGHTING POLE, 30 FT., TYPE AT	EA	1	0	1
9011115	BRACKET ARM, 15 FT.	EA	5	3	8
9011311	LUMINAIRE, LED-A	EA	1	0	1
9018230	POLE FOUNDATION (30 FT. MOUNTING HEIGHT)	EA	1	0	1
9016110	PULLBOX, PREFORMED CLASS 1	EA	0	2	2
9020111	SIGNAL HEAD, TYPE 1T	EA	0	1	1
9020211	SIGNAL HEAD, TYPE 1S	EA	0	1	1
9020213	SIGNAL HEAD, TYPE 3S	EA	3	1	4
9020513	SIGNAL HEAD, TYPE 3B	EA	6	7	13
9020514	SIGNAL HEAD, TYPE 4B	EA	4	0	4
9020811	SIGNAL HEAD, TYPE 1S, PEDESTRIAN	EA	4	4	8
9020833	SH-FLAT SHEET - SIGNAL SIGN	SF	70	60	130
9020834	SIGNAL SIGN, MOUNTING HARDWARE	EA	12	9	21
9022651	LUMINAIRE LED-A, 120 VOLT COMPATIBLE	EA	4	3	7
9022708	POST, SIGNAL 8 FT.	EA	1	1	2
9022715	POST, SIGNAL 15 FT.	EA	1	2	3
9023130	POST, TYPE CL, 30 FT. ARM	EA	0	1	1
9023140	POST, TYPE CL, 40 FT. ARM	EA	1	0	1
9023145	POST, TYPE CL, 45 FT. ARM	EA	2	0	2
9023155	POST, TYPE CL, 55 FT. ARM	EA	1	0	1
9023255	POST, TYPE C, 55 FT. ARM	EA	1	0	1
9023455	POST, TYPE BL, LONGEST ARM 55 FT.	EA	0	1	1
9024283	CONTROLLER ASSEMBLY HOUSING, NEMA TS2 CONTROLLER	EA	1	1	2
9024965	DETECTOR, MICROWAVE, PER INTERSECTION	EA	1	1	2
9025200	CONDUIT, 2 IN., TRENCH WITH TRACER WIRE	LF	55	900	955
9025300	CONDUIT, 3 IN., TRENCH WITH TRACER WIRE	LF	170	190	360
9027200	CONDUIT, 2 IN., RIGID, PUSHED	LF	280	0	280
9027300	CONDUIT, 3 IN., PUSHED WITH TRACER WIRE	LF	400	220	620
9028100	CABLE, 10 AWG 1 CONDUCTOR, POLE AND BRACKET	LF	480	290	770
9028208	CABLE, 8 AWG 1 CONDUCTOR, POWER	LF	110	460	570
9028302	CABLE, 12 AWG 2 CONDUCTOR	LF	1040	750	1790
9028308	CABLE, 16 AWG 2 CONDUCTOR	LF	800	990	1790
9028310	CABLE, 16 AWG 5 CONDUCTOR	LF	810	990	1800
9028311	CABLE, 16 AWG 7 CONDUCTOR	LF	2900	2760	5660
9028811	PULL BOX, PREFORMED CLASS 2	EA	3	3	6
9028812	PULL BOX, PREFORMED CLASS 3	EA	1	1	2
9029100	BASE, CONCRETE	CU YD	18	8	26
9029902	COMBINATION PAD MOUNTED 120/240 VOLT POWER SUPPLY & LIGHTING CONTROLLER w/ UNINTERRUPTIBLE POWER SUPPLY	EA	1	1	2
9029902	AUDIBLE ACCESSIBLE PEDESTRIAN PUSHBUTTON AND SIGN	EA	4	4	8
9105200	CONDUIT, 2 IN., RIGID, IN TRENCH	LF	1000	300	1300
9108354	FIBER OPTIC CABLE, 48-STRAND, SINGLE MODE	LF	1150	980	2130
9108811	PULL BOX, PREFORMED CLASS 2	EA	2	4	6
9108816	PULL BOX, PREFORMED CLASS 5	EA	1	1	2
9109902	HARDENED ETHERNET SWITCH - LAYER 2	EA	1	1	2
9109902	FUSION SPLICE, SINGLE MODE	EA	8*	4	12
9109902	FIBER OPTIC PIGTAIL, SINGLE MODE	EA	8*	4	12
9109902	FIBER OPTIC JUMPER, SINGLE MODE	EA	8*	4	12
9109902	RACK-MOUNTED INTERCONNECT CENTER	EA	1*	0	1
9109902	WALL-MOUNTED INTERCONNECT CENTER	EA	1	1	2

*QUANTITIES FOR MAINTENANCE BUILDING INCLUDED IN THIS COLUMN

STATE OF MISSOURI
COLLIN J. WILCOX
NUMBER PE-2019035614
PROFESSIONAL ENGINEER
THIS SHEET HAS BEEN SIGNED, SEALED, AND DATED ELECTRONICALLY

DATE PREPARED
4/8/2024

ROUTE	STATE
50	MO
DISTRICT	SHEET NO.
CD	3

COUNTY
OSAGE

JOB NO.
J5P3574

CONTRACT ID.
.

PROJECT NO.
.

BRIDGE NO.
.

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

LOCHMUELLER GROUP
411 North 10th Street, Suite 200
St. Louis, MO 63101
Phone: 314.621.3395

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

QUANTITY SHEETS
6 OF 8

DRAINAGE STRUCTURES

START STA.	OFFSET	15 IN. GROUP B PIPE (FT)	15 IN. GROUP A PIPE (FT)	18 IN. GROUP A PIPE (FT)	21 IN. GROUP A PIPE (FT)	24 IN. GROUP A PIPE (FT)	36 IN. GROUP A PIPE (FT)	15 IN. GROUP B F.E.S. (EA)	15 IN. GROUP A F.E.S. (EA)	TYPE C PIPE COLLAR (CY)	CURVED VANE GRATE AND FRAME 2'x 2' (EA)	PRECAST CONC. DROP INLET 2' X 2' (FT)	PRECAST CONC. DROP INLET 3' X 2.5' (FT)	PRECAST CONC. DROP INLET 5' X 3' (FT)	MISC. CULVERT EXTENSION (LS)	CLASS 3 EXCAVATION (CY)	REMARKS
677+58.43 RTE 50	32.60' LT		143								1	3				74	DI-59 AND P-59
679+00.58 RTE 50	35.82' LT		122								1	4				71	DI-60 AND P-60
680+21.98 RTE 50	38.58' LT		16								1	4				24	DI-61 AND P-61
680+33.95 RTE 50	49.19' LT			51										5		43	DI-62 AND P-62
680+83.96 RTE 50	41.50' LT				188									5		85	DI-63 AND P-63
682+71.59 RTE 50	46.74' LT					259								4		129	DI-64 AND P-64
685+29.98 RTE 50	53.56' LT					183								4		128	DI-65 AND P-65
687+12.55 RTE 50	41.58' LT						8			1				6		16	DI-49 AND P-49
2+86.43 N. OUTER RD	39.53' LT		39						1							13	P-45 AND FES-45
3+38.31 N. OUTER RD	38.90' LT		81										4			43	DI-46 AND P-46
4+21.16 N. OUTER RD	26.41' LT			56										5		41	DI-47 AND P-47
4+55.66 N. OUTER RD	17.58' RT			23										5		19	DI-48 AND P-48
669+20.97 RTE 50	54.0' LT						32			1						6	P-1 AND FES-1
696+99.81 RTE 50	18.0' LT														1	15	P-2
691+22.00 RTE 50	22.5' RT	22						2								5	P-5, FES-5, AND FES-6
1+66.03 RTE CC	25.41' RT		8						1							4	P-55 AND FES-55
0+99.66 RTE CC	22.77' RT			68										3		32	DI-54 AND P-54
1+66.77 RTE CC	17.58' RT		104						2					4		30	DI-56, P-56, AND FES-57
	TOTALS	**22**	**513**	**198**	**188**	**442**	**40**	**2**	**4**	**2**	**3**	**11**	**4**	**41**	**1**	**778**	

QUANTITY SHEETS
7 OF 8

$FILE$ $TIME$ $DATE$

STATE OF MISSOURI
COLLIN J. WILCOX
NUMBER PE-2019035614
PROFESSIONAL ENGINEER

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DATE PREPARED
4/8/2024

ROUTE	STATE
50	MO
DISTRICT	SHEET NO.
CD	3

COUNTY
OSAGE

JOB NO.
J5P3574

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)

LOCHMUELLER GROUP
411 North 10th Street, Suite 200
St. Louis, MO 63101
Phone: 314.621.3395

EFFECTIVE: 04-01-2023

SIGN	SIZE IN.	AREA SQ.FT.	QTY EACH	TOTAL AREA SQ.FT.	QTY RELOC EACH	TOTAL RELOC SQ.FT.	SIGN NUM.	DESCRIPTION
WARNING SIGNS								
WO1-1L	48X48	16.00						TURN (SYMBOL LEFT ARROW)
WO1-1R	48X48	16.00						TURN (SYMBOL RIGHT ARROW)
WO1-2L	48X48	16.00						CURVE (SYMBOL LEFT ARROW)
WO1-2R	48X48	16.00						CURVE (SYMBOL RIGHT ARROW)
WO1-3L	48X48	16.00						REVERSE TURN (SYMBOL LEFT ARROW)
WO1-3R	48X48	16.00						REVERSE TURN (SYMBOL RIGHT ARROW)
WO1-4L	48X48	16.00	2	32.00			15L	REVERSE CURVE (SYMBOL LEFT ARROW)
WO1-4R	48X48	16.00	2	32.00			15R	REVERSE CURVE (SYMBOL RIGHT ARROW)
WO1-4bL	48X48	16.00						DOUBLE ARROW REVERSE CURVE (SYMBOL LT ARROWS)
WO1-4bR	48X48	16.00						DOUBLE ARROW REVERSE CURVE (SYMBOL RT ARROWS)
WO1-4cL	48X48	16.00						TRIPLE ARROW REVERSE CURVE (SYMBOL LT ARROWS)
WO1-4cR	48X48	16.00						TRIPLE ARROW REVERSE CURVE (SYMBOL RT ARROWS)
WO1-6	60X30	12.50						HORIZONTAL ARROW (SYMBOL)
WO1-6a	72X36	18.00						HORIZ. ARROW (SYMBOL ON PERMANENT BARRICADE)
WO1-7	60X30	12.50						DOUBLE HEAD HORIZONTAL ARROW (SYMBOL)
WO1-7a	72X36	18.00						DOUBLE HEAD HORIZ. ARROW (SYMBOL ON PERM. BARR.)
WO1-8	18X24	3.00						CHEVRON (SYMBOL)
WO1-8a	30X36	7.50						CHEVRON (SYMBOL FOR DIVIDED HIGHWAYS)
WO3-1	48X48	16.00						STOP AHEAD (SYMBOL)
WO3-2	48X48	16.00						YIELD AHEAD (SYMBOL)
WO3-3	48X48	16.00						SIGNAL AHEAD (SYMBOL)
WO3-4	48X48	16.00	4	64.00			11	BE PREPARED TO STOP
WO3-5	48X48	16.00						SPEED LIMIT AHEAD
WO4-1L	48X48	16.00						MERGE (SYMBOL FROM LEFT)
WO4-1R	48X48	16.00						MERGE (SYMBOL FROM RIGHT)
WO4-1aL	48X48	16.00						MERGE (ARROW SYMBOL)
WO4-1aR	48X48	16.00						MERGE (ARROW SYMBOL)
WO5-1	48X48	16.00						ROAD/BRIDGE/RAMP NARROWS
WO5-3	48X48	16.00						ONE LANE BRIDGE
WO5-5	48X48	16.00	1	16.00			34	NARROW LANES
WO6-1	48X48	16.00						DIVIDED HIGHWAY (SYMBOL)
WO6-2	48X48	16.00						DIVIDED HIGHWAY END (SYMBOL)
WO6-3	48X48	16.00						TWO WAY TRAFFIC (SYMBOL)
WO7-3a	30X24	5.00						NEXT XX MILES (PLAQUE)
WO8-1	48X48	16.00						BUMP
WO8-2	48X48	16.00						DIP
WO8-3	48X48	16.00						PAVEMENT ENDS
WO8-4	48X48	16.00						SOFT SHOULDER
WO8-5	48X48	16.00						SLIPPERY WHEN WET (SYMBOL)
WO8-6	48X48	16.00						TRUCK CROSSING (WITH FLAGS)
WO8-6c	48X48	16.00						TRUCK ENTRANCE
WO8-7	36X36	9.00						LOOSE GRAVEL
WO8-7a	36X36	9.00						FRESH OIL/LOOSE GRAVEL
WO8-9	48X48	16.00						LOW SHOULDER
WO8-11	48X48	16.00	4	64.00				UNEVEN LANES
WO8-12	48X48	16.00	4	64.00				NO CENTER LINE
WO8-15	48X48	16.00						GROOVED PAVEMENT
WO8-15P	30X24	5.00						MOTORCYCLE (PLAQUE)
WO8-17	48X48	16.00						SHOULDER DROP-OFF (SYMBOL)
WO8-17P	30X24	5.00						SHOULDER DROP-OFF (PLAQUE)
W10-1	42RND.	9.62						RAILROAD CROSSING
WO12-1	24X24	4.00						DOUBLE DOWN ARROW (SYMBOL)
WO12-2	48X48	16.00						LOW CLEARANCE (SYMBOL)
WO12-2X	24X18	3.00						LOW CLEARANCE (PLAQUE)
WO12-2a	84X24	14.00						OVERHEAD LOW CLEARANCE (FEET AND INCHES)
WO12-4	120X60	50.00						LOW CLEARANCE XX FT XX IN XX MILES AHEAD
WO12-5	120X60	50.00						WIDTH RESTRICTION XX FT XX IN XX MILES AHEAD
WO13-1	30X30	6.25						ADVISORY SPEED (PLAQUE)
WO16-2	30X24	5.00						XXX FEET (PLAQUE)
WO16-3	30X24	5.00						X MILE (PLAQUE)
WO20-1	48X48	16.00	10	160.00			2	ROAD/BRIDGE/RAMP WORK AHEAD
WO20-2	48X48	16.00	2	32.00			45	DETOUR AHEAD
WO20-3	48X48	16.00						ROAD CLOSED AHEAD
WO20-4	48X48	16.00	1	16.00			7	ONE LANE ROAD AHEAD
WO20-5	48X48	16.00						RIGHT/CENTER/LEFT LANE CLOSED AHEAD
WO20-5a	48X48	16.00						2 RIGHT/CENTER/LEFT LANES CLOSED AHEAD
WO20-6a	48X48	16.00	2	32.00			6	RIGHT/CENTER/LEFT LANE CLOSED
WO20-7a	48X48	16.00	5	80.00			8	FLAGGER (SYMBOL, WITH FLAGS)
WO21-2	36X36	9.00						FRESH OIL
WO21-5	48X48	16.00	3	48.00			21	SHOULDER WORK AHEAD
WO22-1	48X48	16.00						BLASTING ZONE AHEAD
WO22-2	42X36	10.50						TURN OFF 2-WAY RADIO AND PHONE
WO22-3	42X36	10.50						END BLASTING ZONE
GO22-1	21X15	2.19						WET PAINT (ARROW PIVOTS)

SIGN	SIZE IN.	AREA SQ.FT.	QTY EACH	TOTAL SQ.FT.	QTY RELOC EACH	TOTAL RELOC SQ.FT.	SIGN NUM.	DESCRIPTION
GUIDE SIGNS								
E05-1	36X48	12.00						GORE EXIT
E05-2	48X36	12.00						EXIT OPEN
E05-2a	48X36	12.00						EXIT CLOSED
GO20-1	60X24	10.00	2	20.00			1	ROAD WORK NEXT XX MILES
GO20-2	48X24	8.00	2	16.00			26	END ROAD WORK
GO20-4	36X18	4.50						PILOT CAR FOLLOW ME
GO20-4a	42X30	8.75						PILOT CAR IN USE WAIT & FOLLOW
GO20-4a	18X12	1.50	1	1.50			58	PILOT CAR IN USE WAIT & FOLLOW
GO20-5aP	36X24	6.00						WORK ZONE (PLAQUE)
MO4-8a	24X18	3.00						END DETOUR
MO4-9L	48X36	12.00	5	60.00			38	DETOUR (LEFT ARROW)
MO4-9R	48X36	12.00	6	72.00			39	DETOUR (RIGHT ARROW)
MO4-9P	48X12	4.00	4	16.00			41	STREET NAME (PLAQUE)
MO4-10L	48X18	6.00						DETOUR (ARROW LEFT)
MO4-10R	48X18	6.00						DETOUR (ARROW RIGHT)
REGULATORY SIGNS								
R1-1	48X48	13.25						STOP
R1-2	48TRI.	6.93						YIELD
R1-2a	36X36	9.00						TO ONCOMING TRAFFIC (PLAQUE)
R1-3P	30X12	2.50						ALL WAY (PLAQUE)
R2-1	36X48	12.00						SPEED LIMIT XX
R3-1	48X48	16.00						NO RIGHT TURN (SYMBOL)
R3-2	48X48	16.00						NO LEFT TURN (SYMBOL)
R3-3	36X36	9.00						NO TURNS
R3-4	48X48	16.00						NO U-TURN (SYMBOL)
R3-7L	30X30	6.25						LEFT LANE MUST TURN LEFT
R3-7R	30X30	6.25	2	12.50			43	RIGHT LANE MUST TURN RIGHT
R4-1	36X48	12.00						DO NOT PASS
R4-2	36X48	12.00						PASS WITH CARE
R4-8a	36X48	12.00						KEEP LEFT (HORIZONTAL ARROW)
R4-7a	36X48	12.00	1	12.00			42	KEEP RIGHT (HORIZONTAL ARROW)
R5-1	30X30	6.25						DO NOT ENTER
R5-1a	36X24	6.00						WRONG WAY
R6-1L	54X18	6.75						ONE WAY ARROW (LEFT)
R6-1R	54X18	6.75						ONE WAY ARROW (RIGHT)
R6-2L	24X30	5.00						ONE WAY (LEFT)
R6-2R	24X30	5.00						ONE WAY (RIGHT)
R9-9	24X12	2.00						SIDEWALK CLOSED
R9-11L	24X18	3.00						SIDEWALK CLOSED AHEAD, (ARROW LEFT) CROSS HERE
R9-11R	24X18	3.00						SIDEWALK CLOSED AHEAD, (ARROW RIGHT) CROSS HERE
R10-6	24X36	6.00						STOP HERE ON RED (45^ ARROW)
R11-2	48X30	10.00	4	40.00			29	ROAD CLOSED
R11-3a	60X30	12.50						ROAD CLOSED XX MILES AHEAD LOCAL TRAFFIC ONLY
R11-4	60X30	12.50						ROAD CLOSED TO THRU TRAFFIC
CONST-3A	60X48	20.00						FINE SIGN
CONST-3X	56X12	4.67						SPEEDING/PASSING (PLATE)
MISCELLANEOUS SIGNS								
CONST-5	48X36	12.00	2	24.00			62	POINT OF PRESENCE
CONST-5	96X48	32.00						POINT OF PRESENCE
CONST-7	48X24	8.00	2	16.00			66	RATE OUR WORK ZONE
CONST-7	72X36	18.00						RATE OUR WORK ZONE
CONST-8	48X36	12.00	2	24.00			33	WORK ZONE NO PHONE ZONE

616-10.05 CONSTRUCTION SIGNS	TOTAL	954.0
616-10.10 RELOCATED SIGNS	TOTAL	0

NO DIRECT PAYMENT WILL BE MADE FOR RELOCATED SIGNS

ITEM NUMBER	TOTAL QTY	DESCRIPTION
6122008		IMPACT ATTENUATOR 40 MPH (SAND BARRELS)
6122009		IMPACT ATTENUATOR 45 MPH (SAND BARRELS)
6122010		IMPACT ATTENUATOR 50 MPH (SAND BARRELS)
6122012		IMPACT ATTENUATOR 55 MPH (SAND BARRELS)
6122014		IMPACT ATTENUATOR 60 MPH (SAND BARRELS)
6122017		IMPACT ATTENUATOR 65 MPH (SAND BARRELS)
6122019		IMPACT ATTENUATOR 70 MPH (SAND BARRELS)
6122020		REPLACEMENT SAND BARREL
6122030		IMPACT ATTENUATOR (RELOCATION)
6123000A		TRUCK OR TRAILER MOUNTED ATTENUATOR (TMA)
6161008	2	ADVANCED WARNING RAIL SYSTEM
6161012		BUOYS (BOATS KEEP OUT)
6161013		BUOYS (NO WAKE)
6161014		SPECIAL SIGN ASSEMBLY (BOATS KEEP OUT)
6161025	150	CHANNELIZER (TRIM LINE)
6161030	14	TYPE III MOVEABLE BARRICADE
6161033	30	DIRECTION INDICATOR BARRICADE
6161040	1	FLASHING ARROW PANEL
6161047		TYPE III OBJECT MARKER
6161055	30	SEQUENTIAL FLASHING WARNING LIGHT
6161070		TUBULAR MARKER
6161095		RADAR SPEED ADVISORY SYSTEM
6161096		CHANGEABLE MESSAGE SIGN, COMMISSION FURNISHED/RETAINED
6161098A	6**	CHANGEABLE MESSAGE SIGN W/O COMM. INTERFACE - CONTRACTOR FURNISHED/RETAINED
6161099		CHANGEABLE MESSAGE SIGN WITH COMM. INTERFACE - CONTRACTOR FURNISHED/RETAINED
6162000A		WORK ZONE TRAFFIC SIGNAL SYSTEM
6162002	4**	TEMPORARY LONG-TERM RUMBLE STRIPS
6173600D		TEMPORARY TRAFFIC BARRIER CONTRACTOR FURNISHED/RETAINED
6173602B		TEMPORARY TRAFFIC BARRIER CONTRACTOR FURNISHED/COMMISSION RETAINED
6174000A		TEMP. TRAFFIC BARRIER HEIGHT TRANSITION
6175010A		RELOCATING TEMPORARY TRAFFIC BARRIER
6176000B		TEMPORARY TRAFFIC BARRIER COMMISSION FURNISHED/RETAINED
6177000B		TEMP. TRAFFIC BARRIER HEIGHT TRANSITION COMMISSION FURNISHED/RETAINED
6205301B	8130**	TEMPORARY REMOVABLE MARKING TAPE 4IN,WHITE
6205303B	9000**	TEMPORARY REMOVABLE MARKING TAPE 4IN,YELLO
6208064A		TEMPORARY RAISED PAVEMENT MARKER
9029400		TEMPORARY TRAFFIC SIGNALS
9029401		TEMPORARY TRAFFIC SIGNALS AND LIGHTING

**NOT INCLUDED IN TEMPORARY TRAFFIC CONTROL - 1 LUMP SUM QUANTITY

TEMPORARY TRAFFIC CONTROL	
PAY TOTAL	LUMP SUM

QUANTITIES
SHEET 8 OF 8

BRYAN SCOT GREGORY NUMBER PE-2006019659
STATE OF MISSOURI PROFESSIONAL ENGINEER
THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED 4/4/2024

ROUTE	STATE
50	MO
DISTRICT	SHEET NO.
CD	3

COUNTY: OSAGE
JOB NO.: J5P3574
CONTRACT ID.:
PROJECT NO.:
BRIDGE NO.:

NO.	DESCRIPTION	DATE

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MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)
Bartlett & West
601 MONROE ST. SUITE 201 - JEFFERSON CITY, MO 65101
PHONE 573-634-3181
CERTIFICATE OF AUTHORITY NO. 000167 - ENGINEERING
WWW.BARTLETTWEST.COM

PI 662+66.82
PC 649+87.50
PT 673+46.44
Δ 56°29'15.6" (LT)
D 2°24'20.9"
L 2,347.96' (ARC)
T 1,279.32'
R 2,381.55'

OWNER: HARBOR PLACE RE-LINN, LLC
PARCEL ID: 10-50-21-00-000-0003.07
ADDRESS: N/A
WD BK-515, PG 69

1

OWNER: 100 GRANDE PROPERTIES, L.L.C.
PARCEL ID: 10 50 21 00 000 0003.03
ADDRESS: N/A
WD BK-572, PG 109

SCALE
0 20 40 60

665

1/4, 1/4 SECTION LINE

20' WATERLINE ESMT AS REC. IN BK-155, PG-416
RELOCATED WATER LINE (BY OTHERS)
SAWCUT
4' DITCH WITH TYPE 1 ROCK DITCH LINER
20' WATERLINE ESMT
R/W (NORMAL ACCESS)
S.L.
40' EXIST. MODOT R/W
EXIST. SHOULDER (R)
1:45 TAPER (540 LF)
5'
13'
11'
13'
5'
ROUTE 50 ℄
(UIP)
S.L.
MATCHLINE STA 668+40
40' EXIST. MODOT R/W
AT&T
BEGIN PROJECT
STA 666+90.00

OWNER: D&E STORAGE, L.L.C.
PARCEL ID: 10-50-21-14-000-0001.31
ADDRESS: N/A
WD BK-406, PG'S 183-185

RECORDED LAND CORNER

STA 656+19.63 (Alignment - Rte-50)
OFF 2168.56' LT. (Alignment - Rte-50)
2188.07' N00°36'05"E OF
RTE 50 ℄ STA 666+01.53

SEC LINE

EX. MISSOURI DEPARTMENT OF AGRICULTURE ALUM PM FOUND AND ACCEPTED AS THE COMMON 1/4 CORNER OF SECTION'S 16 & 21, T43N, R8W AS SHOWN BY MLS DOC. #600-98268

NE 1/4, NW 1/4 SECTION 21, T43N, R8W

1/4 SECTION LINE

NW 1/4, NE 1/4 SECTION 21, T43N, R8W

GENERAL NOTES:
1) 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.
2) BEARINGS SHOWN ARE STATE PLANE BEARINGS, CENTRAL ZONE.
3) RIGHT OF WAY LIMITS FOR THIS PROJECT EXTEND FROM STA 666+09.85 TO STA 703+21.45. A DISTANCE OF 0.71 MILES.

SE 1/4, NW 1/4
SECTION 21, T43N, R8W

SW 1/4, NE 1/4
SECTION 21, T43N, R8W

RTE 50 PLAN SHEET
1 OF 10

$FILE$ $TIME$ $DATE$

STATE OF MISSOURI
COLLIN J. WILCOX
NUMBER PE-2019035614
PROFESSIONAL ENGINEER
THIS SHEET HAS BEEN SIGNED, SEALED, AND DATED ELECTRONICALLY

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DATE PREPARED 7/19/2024
ROUTE 50 | STATE MO
DISTRICT CD | SHEET NO. 4
COUNTY OSAGE
JOB NO. J5P3574
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)

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411 North 10th Street, Suite 200
St. Louis, MO 63101
Phone: 314.621.3395

REV.

PI 662+66.82
PC 649+87.50
PT 673+46.44
Δ 56°29'15.6" (LT)
D 2°24'20.9"
L 2,347.96' (ARC)
T 1,279.32'
R 2,381.55'

SW 1/4, NE 1/4
SECTION 21, T43N, R8W

SCALE
0 20 40 60

1
OWNER: 100 GRANDE PROPERTIES, L.L.C.

2
OWNER: BAND PROPERTIES, LLC
PARCEL ID: 10-50-21-00-000-0003.08
ADDRESS: N/A
WD BK-540, PG-37
AFFIDAVIT BK-553, PG 97

3
OWNER: WOLFE CEDAR GROVE APARTMENTS, L.L.C.
PARCEL ID: 10-50-21-00-000-0012.00
ADDRESS: N/A
QCD BK-540, PG 62

20' AS-LAID RIGHT-OF-WAY (SEWER) ESMT
4' DITCH WITH TYPE 1 ROCK DITCH LINER
Q25 = 32.1 CFS
Q50 = 49.32 CFS
DA = 13 ACRES
PR ROCK LINER (9'W X 18'L)
36" PRECAST TYPE C FES
EXTEND EXISTING 3'W X 2'H BOX CULVERT W/ PIPE COLLAR TYPE C AND 36" GROUP A PIPE STA 669+20.97, OFF 54.01' LT
STA 671+00.00 OFF 11.00' LT. (SAWCUT)
RELOCATED WATER LINE (BY OTHERS)
SAWCUT
STA 672+30.00 OFF 25.00' LT. (END TAPER)
4' DITCH WITH TYPE 1 ROCK DITCH LINER
TRACT SUBJECT TOO: A 20' AS-LAID R/W ESMT TO 3 RIVERS ELEC. AS REC. IN BK-542, PG-169
40' ROAD ESMT RESERVED BY NORTHERN LIGHTS DEVELOPMENT CO. AS REC. IN WD BK-534, PG-123
20' WATERLINE ESMT
CE +22.68
W = 36.0' CONC. NO PIPE
TEMP CONST ESMT
37.5'
(R)
R 25'
PT STA ℄ 673+46.44
R 1.5'
+53.23
EQUATION: STA 673+35.46 BK = STA 673+46.44 AH
N75°10'48"E
MATCHLINE STA 668+40.00
MATCHLINE STA 673+90.00
P-1
S.L.
20' WATERLINE ESMT AS REC. IN BK-155, PG-416
R/W (NORMAL ACCESS)
EXIST. MODOT R/W
(REL BO)
1:45 TAPER (540 LF)
(R)
(UIP)
ROUTE 50 ℄
EXIST. SHOULDER (R)
5'
25'
13.5'
BM #62 (FND. NAIL IN LP)
10' UTIL. ESMT (CSRB-23, PG-27)
4' DITCH WITH TYPE 1 ROCK DITCH LINER
20' AS-LAID RIGHT-OF-WAY (SEWER) ESMT AS REC. IN BK-374, PG'S-153 THRU 158
GREEN ACRES DR. (CNTY. RD. 800)

OWNER: D&E STORAGE, L.L.C.
PARCEL ID: 10-50-21-14-000-0001.31
ADDRESS: N/A
WD BK-406, PG'S 183-185

OWNER: THE STATE OF MISSOURI ACTING BY AND THROUGH THI MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
PARCEL ID: 10-50-21-00-000-0014.03
ADDRESS: N/A
AFFIDAVIT OF SCRIVENOR'S ERROR BK-507, PG 172 & WD BK-502, PG-193

RTE 50 PLAN SHEET
2 OF 10

COLLIN J. WILCOX
NUMBER PE-2019035614
STATE OF MISSOURI
REGISTERED PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED, AND DATED ELECTRONICALLY

DATE PREPARED
7/19/2024

ROUTE	STATE
50	MO
DISTRICT	SHEET NO.
CD	5

COUNTY
OSAGE

JOB NO.
J5P3574

CONTRACT ID.
.

PROJECT NO.
.

BRIDGE NO.
.

DESCRIPTION	DATE
.	.

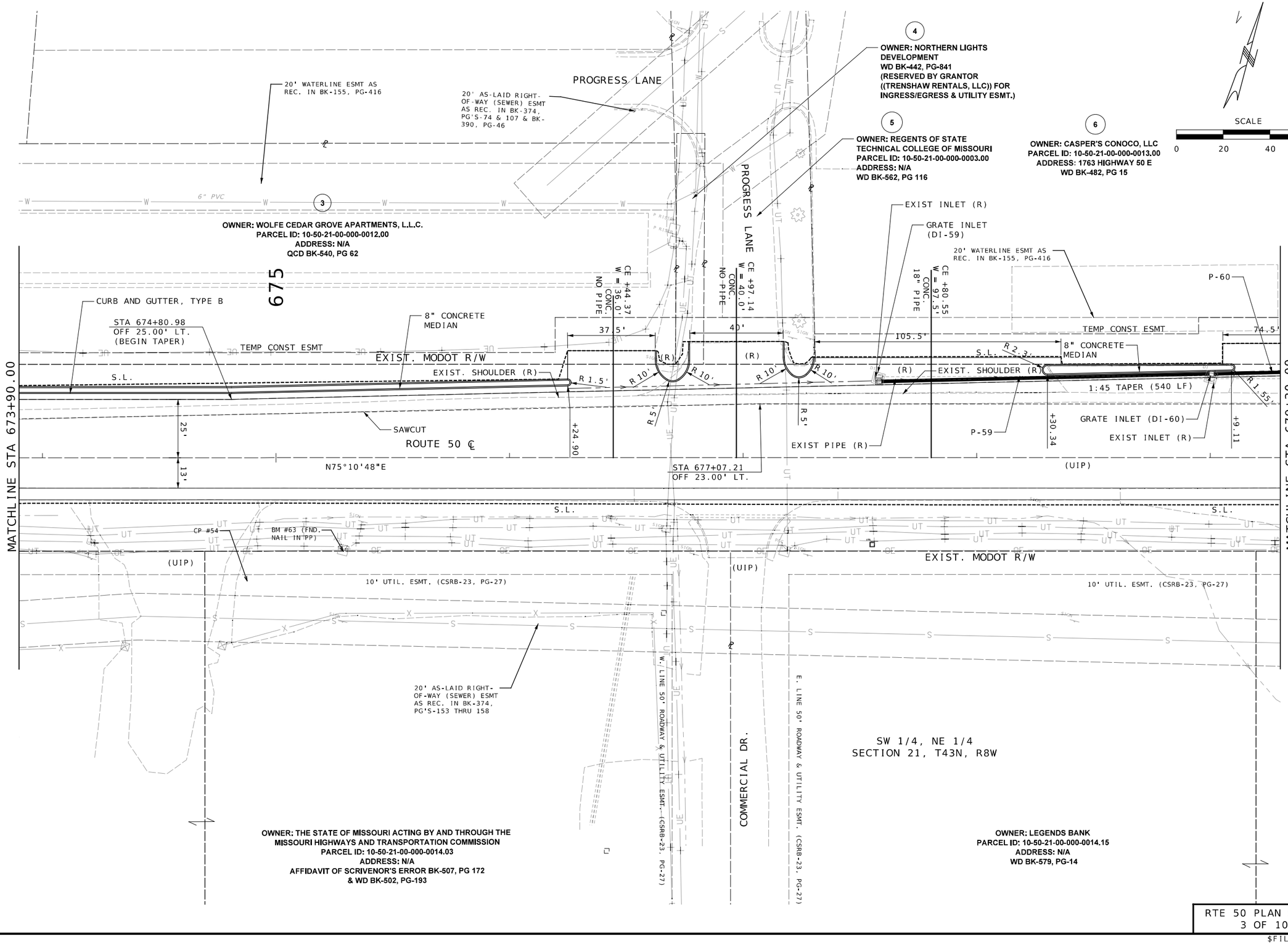
IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

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

LOCHMUELLER GROUP
411 North 10th Street, Suite 200
St. Louis, MO 63101
Phone: 314.621.3395

REV.

$FILE$ $TIME$ $DATE$



RTE 50 PLAN SHEET
3 OF 10

COLLIN J. WILCOX
NUMBER PE-2019035614
PROFESSIONAL ENGINEER
STATE OF MISSOURI
THIS SHEET HAS BEEN SIGNED, SEALED, AND DATED ELECTRONICALLY

DATE PREPARED	
4/8/2024	
ROUTE	STATE
50	MO
DISTRICT	SHEET NO.
CD	6

COUNTY: OSAGE
JOB NO.: J5P3574
CONTRACT ID.: .
PROJECT NO.: .
BRIDGE NO.: .

DATE	DESCRIPTION
.	.

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)
LOCHMUELLER GROUP
411 North 10th Street, Suite 200
St. Louis, MO 63101
Phone: 314.621.3395

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

REV.

$FILE$ $TIME$ $DATE$

SW 1/4, NE 1/4
SECTION 21, T43N, R8W

SE 1/4, NE 1/4
SECTION 21, T43N, R8W

SCALE
0 20 40 60

6
OWNER: CASPER'S CONOCO, LLC
PARCEL ID: 10-50-21-00-000-0013.00
ADDRESS: 1763 HIGHWAY 50 E
WD BK-482, PG 15

7
OWNER: TK RENTALS, L.L.C.
PARCEL ID: 10-50-21-00-000-0013.01
ADDRESS: 1769 HIGHWAY 50 E
AFFIDAVIT BK-503, PG 93

8
OWNER: LSC COMMUNICATIONS BOOK, LLC
PARCEL ID: 10-50-21-00-000-0002.00
ADDRESS: 1799 HIGHWAY 50 EAST
SWD BK-557, PG 126

MATCHLINE STA 679+30.00

MATCHLINE STA 684+70.00

ROUTE 50 ℄

R/W (NORMAL ACCESS

R/W (CONTR ACCESS)

TYPE A INTEGRAL CURB

TYPE E INTEGRAL CURB

CURB AND GUTTER, SPECIAL

SIGN FOOTING (R) AFTER SIGN HAS BEEN RELOCATED BY OTHERS

RELOCATED WATER LINE (BY OTHERS)

20' WATERLINE ESMT AS REC. IN BK-155, PG-416

CURB AND GUTTER, TYPE B

BOX (RBO)

CURB INLET (DI-63)

BM #60 (CHIS. SQ.)

20' WATERLINE ESMT

TEMP CONST ESMT

CURB INLET (DI-62)

GRATE INLET (DI-61)

CE +47.47
W = 26.0'
CONC.
18" PIPE

CE +03.89
W = 17.5'
CONC.
18" PIPE

CE +45.42
W = 69.3'
CONC.
18" PIPE

680

74.5'

1:45 TAPER (540 LF)

EXIST PIPE (R)

EXIST INLET (R)

P-61

P-62

P-63

EXIST PIPE (R)

EXIST INLET (R)

EXIST. SHOULDER (R)

STA 680+20.98
OFF 37.00' LT.
(END TAPER)

STA 682+21.67
OFF 37.00' LT.

R/W (CONTR ACCESS)

4' DITCH

(REL BO)

S.L.

EXIST. MODOT R/W

683+48.69 (RTE50)
0+00.00 (OCCC_DR)

START STA 0+00.00

SAWCUT

STA 683+35.55
OFF 78.24' LT.

P-64

STA 683+09.67
OFF 53.00' LT.

CURB INLET (DI-64)

CONCRETE CURB RAMP

TEMP CONST ESMT

N OUTER DRIVE

R 50'

R 55'

R 30'

R 32'

R 45'

R 250'

PC STA 0+37.00

EXIST PIPE (R)

P-64

87°0'0"

STA 683+54.70
OFF 0.00' LT.

92°56'41.09"

STA 683+30.05
OFF 11.00' RT.

STA 683+98.00
OFF 11.00' RT.

STA 683+98.00
OFF 16.99' RT.

R 60'

CONCRETE CURB RAMP

STA 683+00.88
OFF 28.34' RT.

SAWCUT

SAWCUT

S.L. (UIP)

EX ℄ ROUTE CC

ROUTE CC ℄

S11°52'31"E

STA 682+69.94
OFF 25.00' RT.

STA 682+84.58
OFF 23.24' RT.

STA 683+10.99
OFF 51.57' RT.

CONCRETE CURB RAMP

DROP INLET (DI-54)

STA 0+84.02
OFF 5.00' RT.

R/W (NORMAL ACCESS)

P-54

TEMP CONST ESMT

R 200'

EXIST. MODOT R/W

STA 0+67.03
OFF 19.00' LT.

STA 0+68.72
OFF 25.00' LT.

20' AS-LAID RIGHT-OF-WAY (SEWER) ESMT.

1:8.33 TAPER (100 LF)

N75°10'48"E

STA 679+75.00
OFF 13.00' RT.

STA 680+75.00
OFF 25.00' RT.

1/4, 1/4 SECTION LINE

20' AS-LAID RIGHT-OF-WAY (SEWER) ESMT AS REC. IN BK-374, PG'S-153 THRU 158

10

OWNER: GIER HOLDING L.L.C.
PARCEL ID: 10-50-21-00-000-0014.10
ADDRESS: N/A
WD BK-505, PG-102

OWNER: BAND PROPERTIES, LLC
PARCEL ID: 10-50-21-00-000-0014.04
ADDRESS: N/A
TD BK-493, PG-72

OWNER: LEGENDS BANK
PARCEL ID: 10-50-21-00-000-0014.15
ADDRESS: N/A
WD BK-579, PG-14

ACCESS ESMT. (WD BK-505, PG-102)
(BENEFIT OF GIER HOLDING LLC)

OWNER: LION'S CLUB OF LINN
PARCEL ID: 10-50-21-00-000-0015.00
ADDRESS: 26 HIGHWAY CC
DEED BK-170, PG-31

MATCHLINE STA 1+40.00

RTE 50 PLAN SHEET
4 OF 10

$FILE$ $TIME$ $DATE$

STATE OF MISSOURI
COLLIN J. WILCOX
NUMBER PE-2019035614
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED, AND DATED ELECTRONICALLY

DATE PREPARED	
7/19/2024	
ROUTE	STATE
50	MO
DISTRICT	SHEET NO.
CD	7
COUNTY	
OSAGE	
JOB NO.	
J5P3574	
CONTRACT ID.	
.	
PROJECT NO.	
.	
BRIDGE NO.	
.	

DATE	DESCRIPTION	REV.
.	.	.

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

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

LOCHMUELLER GROUP
411 North 10th Street, Suite 200
St. Louis, MO 63101
Phone: 314.621.3395

9

OWNER: OSAGE COUNTY COMMUNITY CENTER, INC.
PARCEL ID: 10-50-21-00-000-0001.01
ADDRESS: 1811 HIGHWAY 50 E
WD BK-213, PG 409

SE 1/4, NE 1/4
SECTION 21, T43N, R8W

SCALE
0 20 40 60

PI	691+72.68
PC	687+84.70
PT	695+50.20
Δ	23°1'11.41" (RT)
D	3°0'25.8"
L	765.50' (ARC)
T	387.98'
R	1,905.31"

STA 2+24.16
OFF 88.71' LT.

STA 3+22.80
OFF 98.56' LT.

P-45

CURB INLET
(DI-47)

STA 4+32.10
OFF 38.26' LT.

P-47

END N OUTER DR. CONSTRUCTION
STA 4+66.30

CURB AND
GUTTER,
SPECIAL

CURB
INLET
(DI-46)

FES-45

CURB AND
GUTTER,
SPECIAL

R/W (CONTR
ACCESS)

P-46

CURB INLET
(DI-48)

P-48

CURB INLET
(DI-49)

20' WATERLINE ESMT

20' WATERLINE ESMT AS
REC. IN BK-155, PG-416

CURB AND GUTTER, SPECIAL

CURB AND GUTTER, TYPE B

RELOCATED WATER LINE
(BY OTHERS)

STA 689+24.45
OFF 64.00' LT.

STA 687+90.00
OFF 64.00' LT.

TEMP CONST ESMT

S.L.

15.5'
27.5'
11'
11'
R 40'
95°48'36.41"
PRC STA 2+54.22
R 15'
R 40'
R 270'
R 25'
PT STA 3+52.52
14'
14'
R 30'
(R)
87°44'13"
N OUTER DRIVE
P-65
END STA 4+95.90
SEE UTILITY NOTE
6" PVC
EXIST. MODOT R/W
1:8.33 TAPER (100 LF)
CURB INLET EXIST. SHOULDER (R)
(DI-65)
(R)
P-49
EXIST.
PIPE (R)
EXIST.
INLET (R)
(UIP)
23'
37'
PC STA 687+84.70
EQUATION:
STA 687+84.70 AH =
STA 687+84.11 BK
R/W (CONTR ACCESS)
EXIST. SHOULDER (R)
SAWCUT
R 60'
49'
72'
STA 685+34.43
OFF 49.00' LT.
(RBO)
ROUTE 50 ℄
N75°10'48"E
STA 686+34.43
OFF 37.00' LT.
(RBO)
13'
5'
(UIP)
S.L.
BM / CP #50
MATCHLINE STA 684+70
MATCHLINE STA 690+00
EXIST. MODOT R/W

20' AS-LAID RIGHT-
OF-WAY (SEWER) ESMT.

10'x20' ADDITIONAL STRIP OF R/W AS
DESCRIBED IN REPORT OF COMMISSIONER'S AS
REC. IN BOOK 64, PAGE 327.
(UNKNOWN ABOUT VALIDITY AS NO OTHER
REFERENCES TO PORTION ON EX. PLAN SETS)

Q25 = 22.4 CFS
Q0t = 57.19 CFS
DA = 0.2 ACRES

OWNER: LION'S CLUB OF LINN
PARCEL ID: 10-50-21-00-000-0015.00
ADDRESS: 26 HIGHWAY CC
DEED BK-170, PG-31

RTE 50 PLAN SHEET
5 OF 10

COLLIN J. WILCOX
NUMBER PE-2019035614
STATE OF MISSOURI
REGISTERED PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED, AND DATED ELECTRONICALLY

DATE PREPARED
7/19/2024

ROUTE	STATE
50	MO
DISTRICT	SHEET NO.
CD	8

COUNTY
OSAGE

JOB NO.
J5P3574

CONTRACT ID.
.

PROJECT NO.
.

BRIDGE NO.
.

DATE	DESCRIPTION	REV.
.	.	.

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

LOCHMUELLER GROUP
411 North 10th Street, Suite 200
St. Louis, MO 63101
Phone: 314.621.3395

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

$FILE$ $TIME$ $DATE$

SE 1/4, NE 1/4
SECTION 21, T43N, R8W

5

OWNER: BOARD OF REGENTS LINN STATE TECHNICAL COLLEGE
PARCEL ID: 10-50-21-00-000-0001.00
ADDRESS: ONE TECHNOLOGY DR.
WD BK-244, PG-824

MATCHLINE STA 3+00

STA 2+84.47
OFF 19.50' LT.

STA 2+77.92
OFF 4.50' LT.

STA 2+69.63
OFF 31.50' RT.
(BEGIN TAPER)

CONCRETE MEDIAN STRIP

STA 2+32.92
OFF 4.50' RT.

EXIST. CURB MEDIAN (R)

CURB AND GUTTER, SPECIAL

CURB AND GUTTER, SPECIAL

TECHNOLOGY DR

15'

1:5 TAPER (25 LF)

N14°02'17"W

R 60'

R 72'

19.5'

24'

3'

4.5'

S.L.

TEMP CONST ESMT

STA 691+50.00
OFF 49.00' LT.
(BEGIN TAPER)

STA 691+50.00
OFF 23.00' LT.
(BEGIN TAPER)

20' WATERLINE ESMT

R/W (NORMAL ACCESS)

S.L.

20' WATERLINE ESMT AS
REC. IN BK-155, PG-416

4' DITCH WITH
TYPE 1 ROCK
DITCH LINER

RELOCATED WATER
LINE (BY OTHERS)

CP #51

SECTION LINE

SCALE
0 20 40 60

STA 690+05.93
OFF 67.04' LT.

EXIST. MODOT R/W

1:45 TAPER (155 LF)

6" PVC

1:8.33 TAPER (100 LF)

EXIST. SHOULDER (R)

CONCRETE CURB RAMP

EXIST 15" PIPE AND FES (R)

CURB AND GUTTER, TYPE B

CONCRETE CURB RAMP

690+77.19 (RTE50)
1+00.00 (TECH_N)

START STA 1+00.00

15" FES

15" FES

(RBO)

(UIP)

(UIP)

(UIP)

EXIST. MODOT R/W

GATE WILL PERMANENTLY BE CLOSED

P-5

CONCRETE CURB RAMP

2" PVC

SAWCUT

STA 693+05.00
OFF 45.56' LT.

1:45 TAPER (1080 LF)

ROUTE 50 ℄

ABANDONED SERVICE LINE

STA 694+05.00
OFF 31.33' LT.

MATCHLINE STA 690+00

MATCHLINE STA 695+20

695

SECTION LINE

20' AS-LAID RIGHT-
OF-WAY (SEWER) ESMT.

OWNER: LION'S CLUB OF LINN
PARCEL ID: 10-50-21-00-000-0015.00
ADDRESS: 26 HIGHWAY CC
DEED BK-170, PG-31

PI	691+72.68
PC	687+84.70
PT	695+50.20
Δ	23°1'11.41" (RT)
D	3°0'25.8"
L	765.50' (ARC)
T	387.98'
R	1,905.31"

SW 1/4, NW 1/4
SECTION 22, T43N, R8W

RTE 50 PLAN SHEET
6 OF 10

$FILE$ $TIME$ $DATE$ REV.

STATE OF MISSOURI
COLLIN J. WILCOX
NUMBER PE-2019035614
REGISTERED PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED, AND DATED ELECTRONICALLY

DATE PREPARED
7/19/2024

ROUTE	STATE
50	MO
DISTRICT	SHEET NO.
CD	9

COUNTY
OSAGE

JOB NO.
J5P3574

CONTRACT ID.
.

PROJECT NO.
.

BRIDGE NO.
.

DESCRIPTION	DATE
.	.

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

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

MoDOT

LOCHMUELLER GROUP
411 North 10th Street, Suite 200
St. Louis, MO 63101
Phone: 314.621.3395

SW 1/4, NW 1/4
SECTION 22, T43N, R8W

5

CUT EXISTING 30" HDPE PIPE TO PR DITCH LINE

U.I.P.

20' AS-LAID RIGHT-OF-WAY (SEWER) ESMT AS REC. IN BK-374, PG 86

RELOCATED WATER LINE (BY OTHERS)

POND OUTFALL PIPE (DND)

8' FLAT BOTTOM DITCH WITH TYPE 1 ROCK DITCH LINER

Q25 = 78.7 CFS
Q01 = 77.2 CFS
DA = 25.5 ACRES

PR ROCK LINER (9'W X 15'L)

P-2

EXTEND EXISTING 4'W X 2.5'H BOX CULVERT STA 696+99.81 OFF 17.65'

20' AS-LAID RIGHT-OF-WAY (SEWER) ESMT AS REC. IN BK-374, PG 86

CP #52

SCALE
0 20 40 60

OWNER: BOARD OF REGENTS LINN STATE TECHNICAL COLLEGE
PARCEL ID: 10-50-22-00-000-0007.00
ADDRESS: ONE TECHNOLOGY DR.
WD BK-364, PG-335

TEMP CONST ESMT

S.L.

R/W (NORMAL ACCESS)

6" PVC

4' DITCH

EXIST. MODOT R/W

1:45 TAPER (1080 LF)

EXIST. SHOULDER (R)

ROUTE 50 ℄

S81°48'01"E

13'

5'

SAWCUT

STA 697+00.00
OFF 11.00' LT.

PR ROCK LINER
(12'W X 30'L)

2" PVC

MATCHLINE STA 695+20

PT STA D 695+50.20

PC STA E 699+07.94

EQUATION:
STA 699+05.82 BK =
STA 699+07.94 AH

MATCHLINE STA 700+50

OWNER: LION'S CLUB OF LINN
PARCEL ID: 10-50-21-00-000-0015.00
ADDRESS: 26 HIGHWAY CC
DEED BK-170, PG-31

OWNER: REORGANIZED SCHOOL DISTRICT NO. R-II OF OSAGE COUNTY
PARCEL ID: 10-50-22-00-000-0013.00
ADDRESS: N/A
DEED BK-178, PG-18, BK-206, PG-415

RTE 50 PLAN SHEET
7 OF 10

COLLIN J. WILCOX
NUMBER PE-2019035614
STATE OF MISSOURI
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED, AND DATED ELECTRONICALLY

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

DATE PREPARED	
7/19/2024	
ROUTE	STATE
50	MO
DISTRICT	SHEET NO.
CD	10

COUNTY
OSAGE

JOB NO.
J5P3574

CONTRACT ID.
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PROJECT NO.
.

BRIDGE NO.
.

DESCRIPTION	DATE
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MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

LOCHMUELLER GROUP
411 North 10th Street, Suite 200
St. Louis, MO 63101
Phone: 314.621.3395

REV.

$FILE$ $TIME$ $DATE$

SW 1/4, NW 1/4
SECTION 22, T43N, R8W

5

OWNER: BOARD OF REGENTS LINN STATE TECHNICAL COLLEGE
PARCEL ID: 10-50-22-00-000-0007.00
ADDRESS: ONE TECHNOLOGY DR.
WD BK-364, PG-335

SCALE
0 20 40 60

PI	704+89.46
PC	699+07.945
PT	710+12.60
Δ	44°14'41.7" (LT)
D	4°0'19.1"
L	1,104.66' (ARC)
T	581.52'
R	1,430.50'

705

EXIST. SHOULDER (R)

20' AS-LAID RIGHT-OF-WAY (SEWER) ESMT AS REC. IN BK-374, PG 86

SAWCUT

END PROJECT
STA 702+32.12

APPROX. (UNMARKED)

4' DITCH

R/W (NORMAL ACCESS)

EXIST. MODOT R/W

MATCHLINE STA 700+50

1:45 TAPER (1080 LF)

(UIP)

11'

13'

5'

ROUTE 50 ℄

EXIST. MODOT R/W

RECORDED LAND CORNER

SEC LINE

STA 693+44.50 (Alignment - Rte-50)
OFF 1704.47' LT. (Alignment - Rte-50)
1705.76' N00°21'47"E OF
RTE 50 ℄ STA 693+93.64

SEC LINE

EX. MISSOURI DEPARTMENT OF AGRICULTURE ALUM, PM (CAP BROKE OFF AND TOP DENTED/BENT) FOUND AND ACCEPTED AS THE COMMON CORNER OF SECTION'S 15, 16, 21 & 22, T43N, R8W AS SHOWN BY MLS DOC. #600-98269 AND SURVEY BOOK 3, PAGE 204

NE 1/4, NE 1/4 SECTION 21, T43N, R8W

NW 1/4, NW 1/4
SECTION 22, T43N, R8W

OWNER: REORGANIZED SCHOOL DISTRICT NO. R-II OF OSAGE COUNTY
PARCEL ID: 10-50-22-00-000-0013.00
ADDRESS: N/A
DEED BK-178, PG-18, BK-206, PG-415

RTE 50 PLAN SHEET
8 OF 10

$FILE$ $TIME$ $DATE$

STATE OF MISSOURI
COLLIN J. WILCOX
NUMBER PE-2019035614
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED, AND DATED ELECTRONICALLY

DATE PREPARED
4/8/2024

ROUTE	STATE
50	MO
DISTRICT	SHEET NO.
CD	11

COUNTY
OSAGE

JOB NO.
J5P3574

CONTRACT ID.
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PROJECT NO.
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BRIDGE NO.
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DESCRIPTION	DATE
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MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

LOCHMUELLER GROUP
411 North 10th Street, Suite 200
St. Louis, MO 63101
Phone: 314.621.3395

REV.

SE 1/4, NE 1/4
SECTION 21, T43N, R8W

SCALE
0 20 40 60

OWNER: LION'S CLUB OF LINN
PARCEL ID: 10-50-21-00-000-0015.00
ADDRESS: 26 HIGHWAY CC
DEED BK-170, PG-31

Q25 = 8.7 CFS
Q0t = 43.81 CFS
DA = 0.07 ACRES

STA 1+63.61
OFF 25.00' LT.

STA 2+63.61
OFF 13.00' LT.

FES-57
P-56
SAWCUT

CE +66.25
W = 20.0'
CONC.
NO PIPE

EX ℄ ROUTE CC
℄ ROUTE CC

STA 3+33.61
OFF 13.00' LT.

END CONSTRUCTION
STA 4+23.61

PC STA 3+80.20

EXIST. MODOT R/W

37'

S.L.

R 45'

(R) R 45'

1:8.33 TAPER (100 LF)

1:45 TAPER (90 LF)

1:45 TAPER (90 LF)

S11°52'31"E

3'
25'
19'
6'
13'
13'
13'
2'
11'
11'

CURB INLET (DI-56)

R 22'

R 22'

(R)

S.L.

10' UTIL. ESMT. (CSRB-23, PG-27)

TEMP CONST ESMT

EXIST. MODOT R/W

R/W (NORMAL ACCESS)

R 1500'

CE +38.5
W = 38.0'
CONC.
NO PIPE

PC STA 2+32.63

P-55
FES-55

STA 1+64.89
OFF 5.00' RT.

(UIP)

STA 1+44.63
OFF 13.00' RT.

SAWCUT

4' DITCH

STA 3+33.61
OFF 13.00' RT.

CUT 6" PVC OUTLETS BACK
TO PR BACKSLOPE

CURB AND
GUTTER, TYPE B

PT STA 5+34.90

EQUATION
STA 5+35.10 BK
= STA 5+34.90 AH

PT STA 6+37.55

S27°20'31"E

MATCHLINE STA 1+40.00

10

OWNER: GIER HOLDING L.L.C.
PARCEL ID: 10-50-21-00-000-0014.10
ADDRESS: N/A
WD BK-505, PG-102

OWNER: BAND PROPERTIES L.L.C.
PARCEL ID: 10-50-21-00-000-0014.11
ADDRESS: N/A
WD BK-511, PG-114

RTE 50 PLAN SHEET
9 OF 10

$FILE$ $TIME$ $DATE$

COLLIN J. WILCOX
NUMBER PE-2019035614
STATE OF MISSOURI
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED, AND DATED ELECTRONICALLY

DATE PREPARED
4/8/2024

ROUTE	STATE
50	MO
DISTRICT	SHEET NO.
CD	12

COUNTY
OSAGE

JOB NO.
J5P3574

CONTRACT ID.
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PROJECT NO.
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BRIDGE NO.
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DESCRIPTION	DATE
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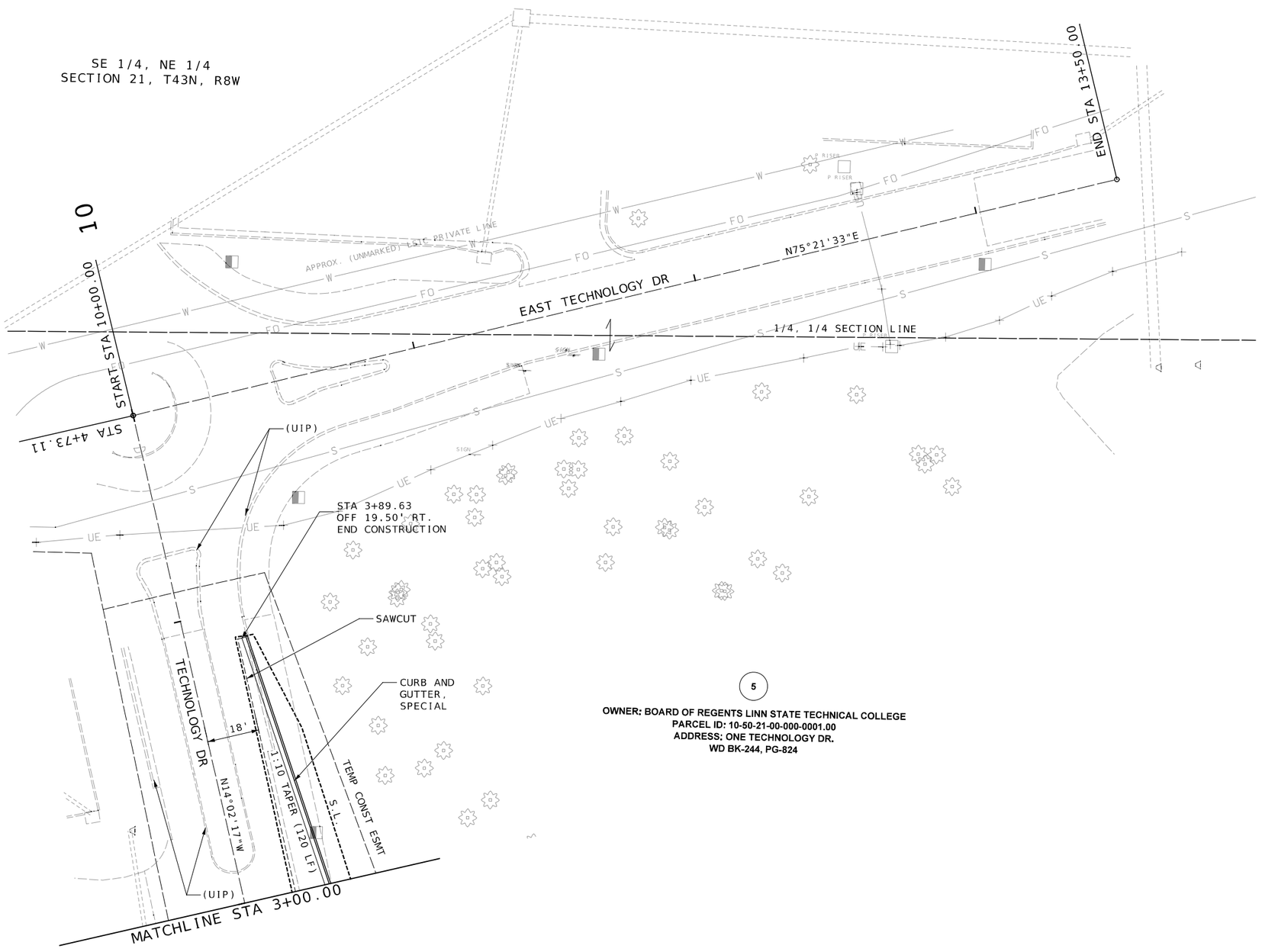
IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

LOCHMUELLER GROUP
411 North 10th Street, Suite 200
St. Louis, MO 63101
Phone: 314.621.3395

REV.



5

OWNER: BOARD OF REGENTS LINN STATE TECHNICAL COLLEGE
PARCEL ID: 10-50-21-00-000-0001.00
ADDRESS: ONE TECHNOLOGY DR.
WD BK-244, PG-824

SCALE
0 20 40 60

COLLIN J. WILCOX
NUMBER
PE-2019035614
STATE OF MISSOURI
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED, AND DATED ELECTRONICALLY

DATE PREPARED
4/8/2024

ROUTE	STATE
50	MO
DISTRICT	SHEET NO.
CD	13

COUNTY
OSAGE

JOB NO.
J5P3574

CONTRACT ID.
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PROJECT NO.
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BRIDGE NO.
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DESCRIPTION	DATE
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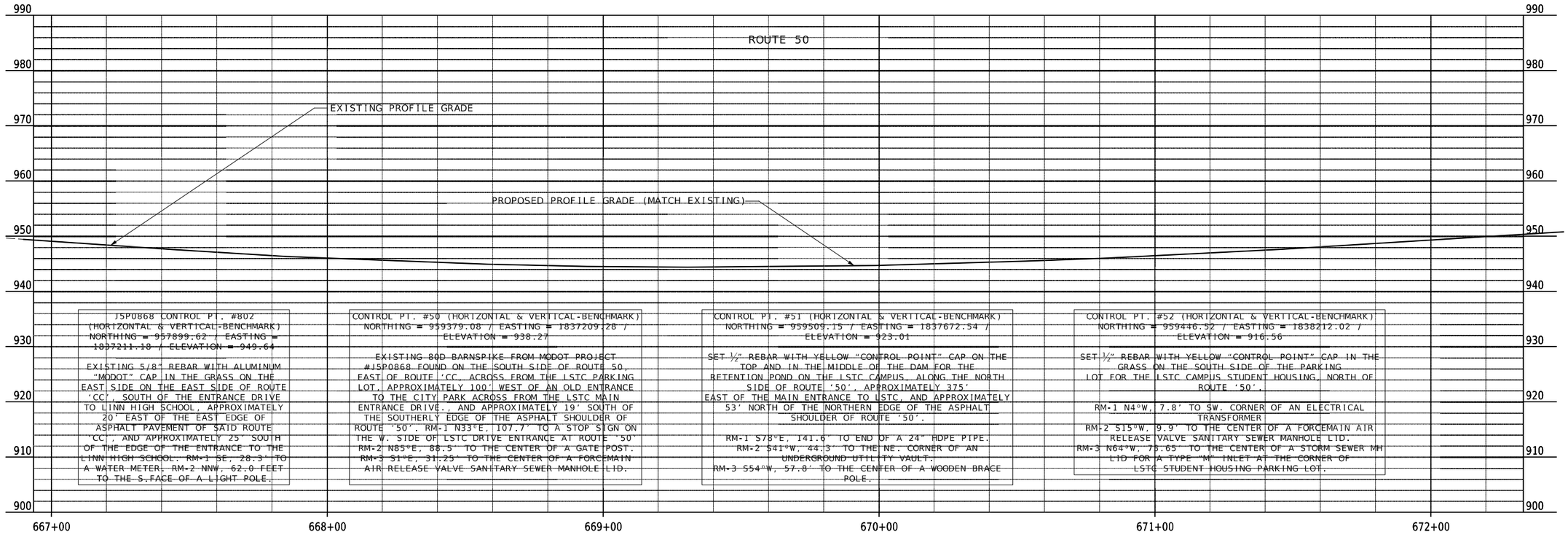
RTE 50 PLAN SHEET
10 OF 10

REV.

$FILE$ $TIME$ $DATE$



J5P0868 CONTROL PT. #802
(HORIZONTAL & VERTICAL-BENCHMARK)
NORTHING = 957899.62 / EASTING = 1837211.18 / ELEVATION = 949.64

EXISTING 5/8" REBAR WITH ALUMINUM "MODOT" CAP IN THE GRASS ON THE EAST SIDE ON THE EAST SIDE OF ROUTE 'CC', SOUTH OF THE ENTRANCE DRIVE TO LINN HIGH SCHOOL, APPROXIMATELY 20' EAST OF THE EAST EDGE OF ASPHALT PAVEMENT OF SAID ROUTE 'CC', AND APPROXIMATELY 25' SOUTH OF THE EDGE OF THE ENTRANCE TO THE LINN HIGH SCHOOL. RM-1 SE, 28.3' TO A WATER METER. RM-2 NNW, 62.0 FEET TO THE S.FACE OF A LIGHT POLE.

CONTROL PT. #50 (HORIZONTAL & VERTICAL-BENCHMARK)
NORTHING = 959379.08 / EASTING = 1837209.28 / ELEVATION = 938.27

EXISTING 80D BARNSPIKE FROM MODOT PROJECT #J5P0868 FOUND ON THE SOUTH SIDE OF ROUTE 50, EAST OF ROUTE 'CC', ACROSS FROM THE LSTC PARKING LOT, APPROXIMATELY 100' WEST OF AN OLD ENTRANCE TO THE CITY PARK ACROSS FROM THE LSTC MAIN ENTRANCE DRIVE., AND APPROXIMATELY 19' SOUTH OF THE SOUTHERLY EDGE OF THE ASPHALT SHOULDER OF ROUTE '50'. RM-1 N33°E, 107.7' TO A STOP SIGN ON THE W. SIDE OF LSTC DRIVE ENTRANCE AT ROUTE '50' RM-2 N85°E, 88.5' TO THE CENTER OF A GATE POST. RM-3 S1°E, 31.25' TO THE CENTER OF A FORCEMAIN AIR RELEASE VALVE SANITARY SEWER MANHOLE LID.

CONTROL PT. #51 (HORIZONTAL & VERTICAL-BENCHMARK)
NORTHING = 959509.15 / EASTING = 1837672.54 / ELEVATION = 923.01

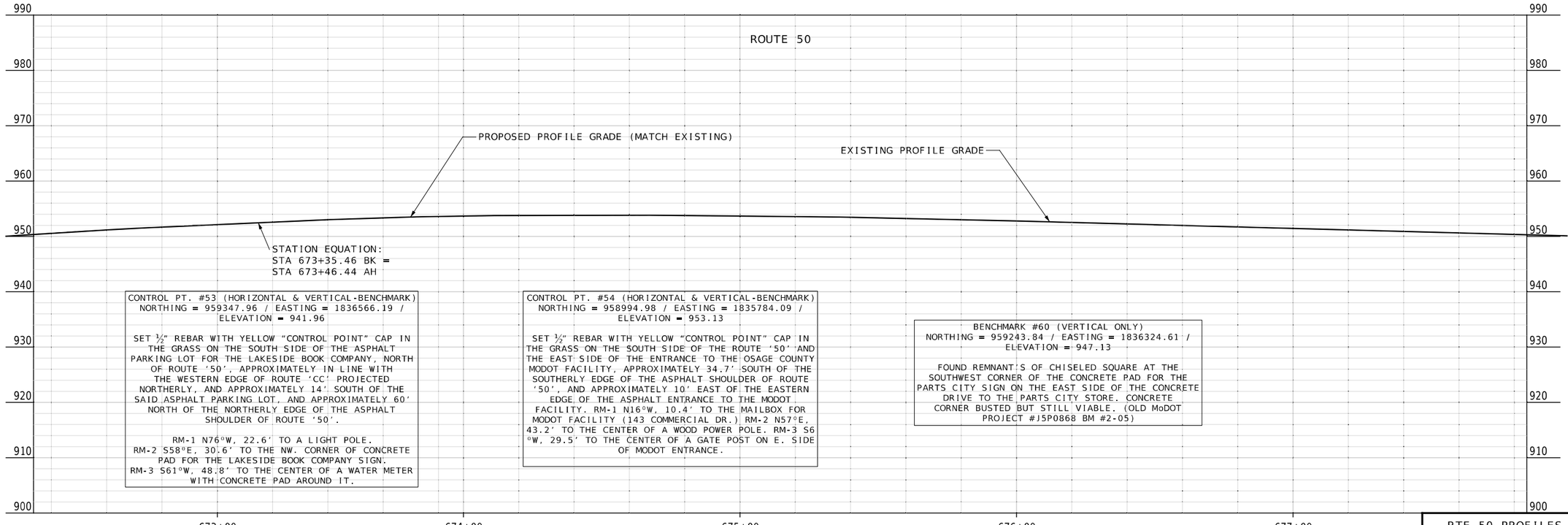
SET ½" REBAR WITH YELLOW "CONTROL POINT" CAP ON THE TOP AND IN THE MIDDLE OF THE DAM FOR THE RETENTION POND ON THE LSTC CAMPUS, ALONG THE NORTH SIDE OF ROUTE '50', APPROXIMATELY 375' EAST OF THE MAIN ENTRANCE TO LSTC, AND APPROXIMATELY 53' NORTH OF THE NORTHERN EDGE OF THE ASPHALT SHOULDER OF ROUTE '50'.

RM-1 S78°E, 141.6' TO END OF A 24" HDPE PIPE. RM-2 S41°W, 44.3' TO THE NE. CORNER OF AN UNDERGROUND UTILITY VAULT. RM-3 S54°W, 57.8' TO THE CENTER OF A WOODEN BRACE POLE.

CONTROL PT. #52 (HORIZONTAL & VERTICAL-BENCHMARK)
NORTHING = 959446.52 / EASTING = 1838212.02 / ELEVATION = 916.56

SET ½" REBAR WITH YELLOW "CONTROL POINT" CAP IN THE GRASS ON THE SOUTH SIDE OF THE PARKING LOT FOR THE LSTC CAMPUS STUDENT HOUSING, NORTH OF ROUTE '50'.

RM-1 N4°W, 7.8' TO SW. CORNER OF AN ELECTRICAL TRANSFORMER
RM-2 S15°W, 9.9' TO THE CENTER OF A FORCEMAIN AIR RELEASE VALVE SANITARY SEWER MANHOLE LID.
RM-3 N64°W, 78.65' TO THE CENTER OF A STORM SEWER MH LID FOR A TYPE "M" INLET AT THE CORNER OF LSTC STUDENT HOUSING PARKING LOT.



CONTROL PT. #53 (HORIZONTAL & VERTICAL-BENCHMARK)
NORTHING = 959347.96 / EASTING = 1836566.19 / ELEVATION = 941.96

SET ½" REBAR WITH YELLOW "CONTROL POINT" CAP IN THE GRASS ON THE SOUTH SIDE OF THE ASPHALT PARKING LOT FOR THE LAKESIDE BOOK COMPANY, NORTH OF ROUTE '50', APPROXIMATELY IN LINE WITH THE WESTERN EDGE OF ROUTE 'CC' PROJECTED NORTHERLY, AND APPROXIMATELY 14' SOUTH OF THE SAID ASPHALT PARKING LOT, AND APPROXIMATELY 60' NORTH OF THE NORTHERLY EDGE OF THE ASPHALT SHOULDER OF ROUTE '50'.

RM-1 N76°W, 22.6' TO A LIGHT POLE.
RM-2 S58°E, 30.6' TO THE NW. CORNER OF CONCRETE PAD FOR THE LAKESIDE BOOK COMPANY SIGN.
RM-3 S61°W, 48.8' TO THE CENTER OF A WATER METER WITH CONCRETE PAD AROUND IT.

CONTROL PT. #54 (HORIZONTAL & VERTICAL-BENCHMARK)
NORTHING = 958994.98 / EASTING = 1835784.09 / ELEVATION = 953.13

SET ½" REBAR WITH YELLOW "CONTROL POINT" CAP IN THE GRASS ON THE SOUTH SIDE OF THE ROUTE '50' AND THE EAST SIDE OF THE ENTRANCE TO THE OSAGE COUNTY MODOT FACILITY, APPROXIMATELY 34.7' SOUTH OF THE SOUTHERLY EDGE OF THE ASPHALT SHOULDER OF ROUTE '50', AND APPROXIMATELY 10' EAST OF THE EASTERN EDGE OF THE ASPHALT ENTRANCE TO THE MODOT FACILITY. RM-1 N16°W, 10.4' TO THE MAILBOX FOR MODOT FACILITY (143 COMMERCIAL DR.) RM-2 N57°E, 43.2' TO THE CENTER OF A WOOD POWER POLE. RM-3 S6°W, 29.5' TO THE CENTER OF A GATE POST ON E. SIDE OF MODOT ENTRANCE.

BENCHMARK #60 (VERTICAL ONLY)
NORTHING = 959243.84 / EASTING = 1836324.61 / ELEVATION = 947.13

FOUND REMNANT'S OF CHISELED SQUARE AT THE SOUTHWEST CORNER OF THE CONCRETE PAD FOR THE PARTS CITY SIGN ON THE EAST SIDE OF THE CONCRETE DRIVE TO THE PARTS CITY STORE. CONCRETE CORNER BUSTED BUT STILL VIABLE. (OLD MoDOT PROJECT #J5P0868 BM #2-05)

RTE 50 PROFILES
SHEET 1 OF 4

$FILE$ $TIME$ $DATE$

STATE OF MISSOURI
COLLIN J. WILCOX
NUMBER PE-2019035614
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED, AND DATED ELECTRONICALLY

DATE PREPARED
4/8/2024

ROUTE	STATE
50	MO
DISTRICT	SHEET NO.
CD	14

COUNTY
OSAGE

JOB NO.
J5P3574

CONTRACT ID.
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PROJECT NO.
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BRIDGE NO.
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DESCRIPTION	DATE
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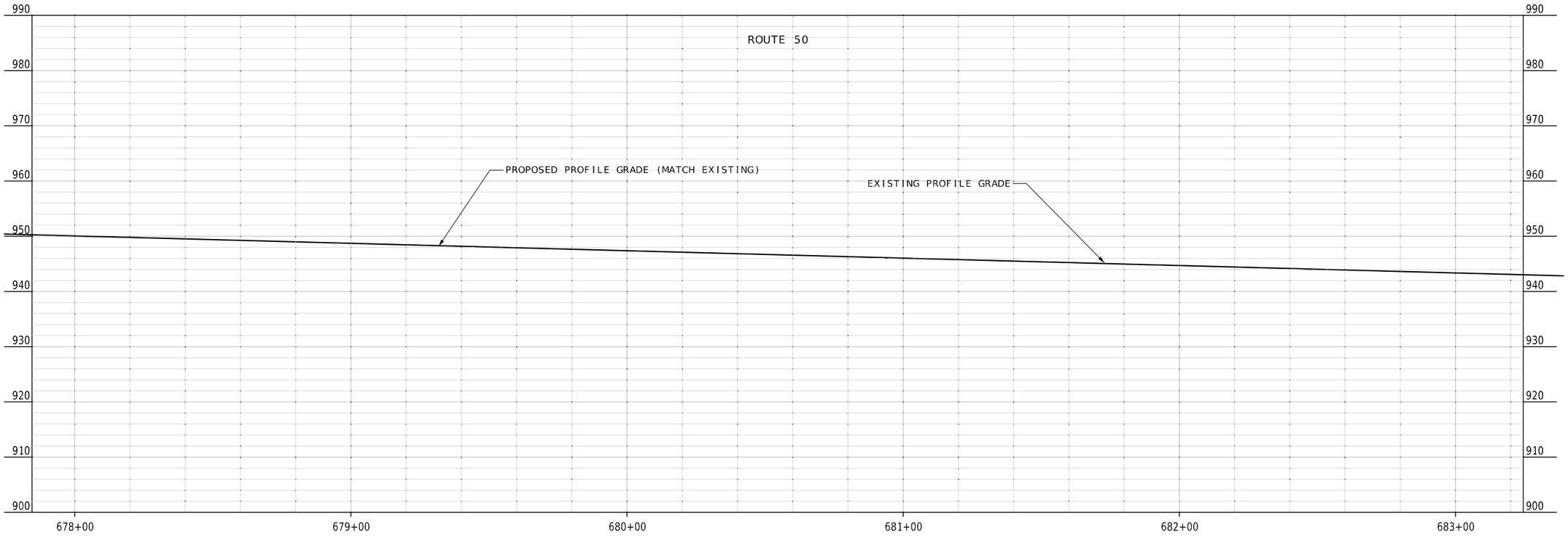
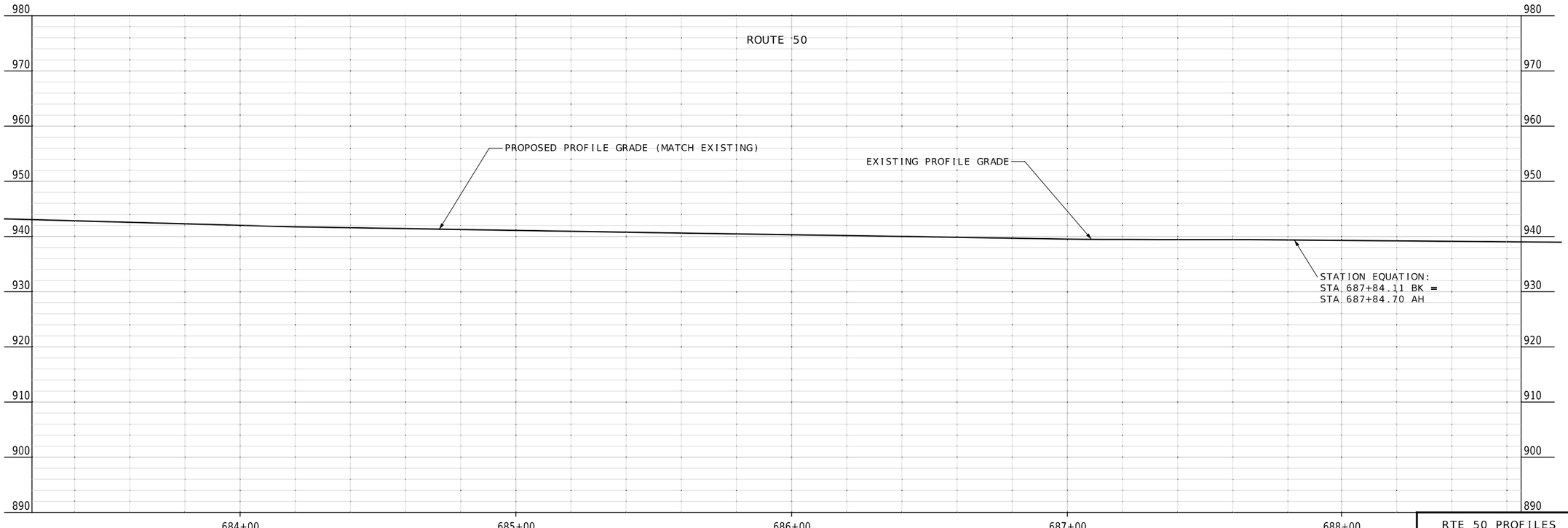
MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

LOCHMUELLER GROUP
411 North 10th Street, Suite 200
St. Louis, MO 63101
Phone: 314.621.3395





RTE 50 PROFILES
SHEET 2 OF 4

$FILE$ $TIME$ $DATE$

COLLIN J. WILCOX
NUMBER PE-2019035614
PROFESSIONAL ENGINEER
STATE OF MISSOURI

THIS SHEET HAS BEEN SIGNED, SEALED, AND DATED ELECTRONICALLY

DATE PREPARED
4/8/2024

ROUTE	STATE
50	MO
DISTRICT	SHEET NO.
CD	15

COUNTY
OSAGE

JOB NO.
J5P3574

CONTRACT ID.
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PROJECT NO.
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BRIDGE NO.
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DESCRIPTION	DATE
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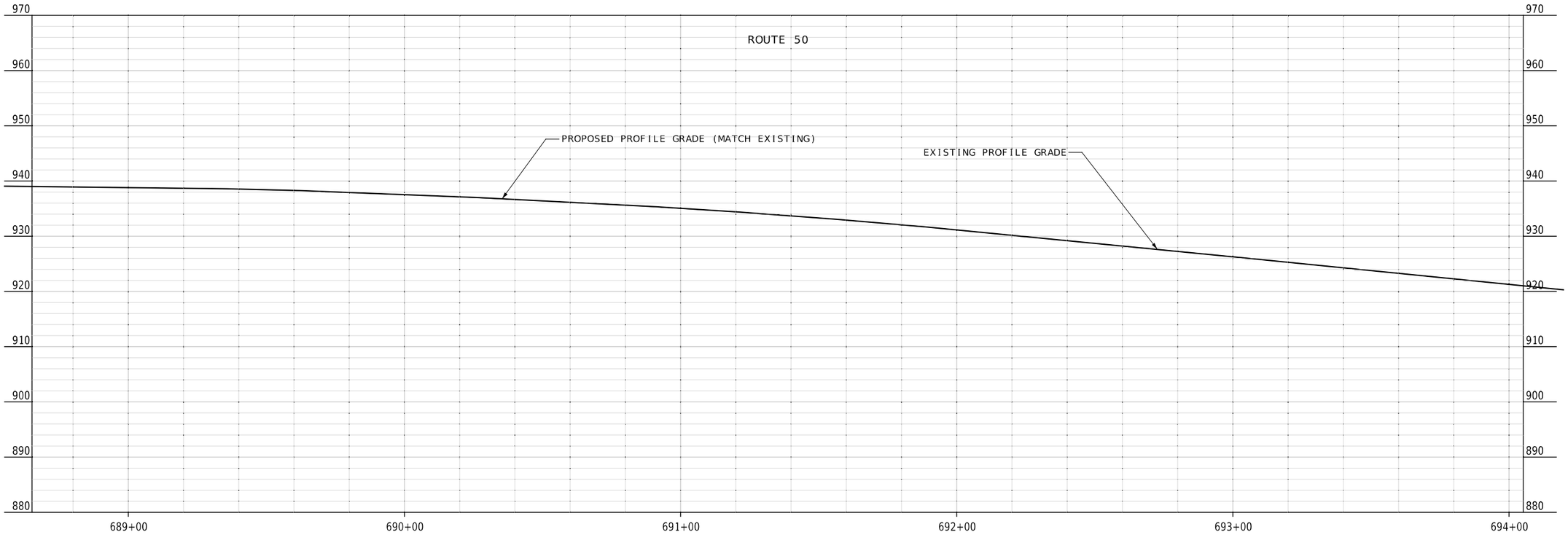

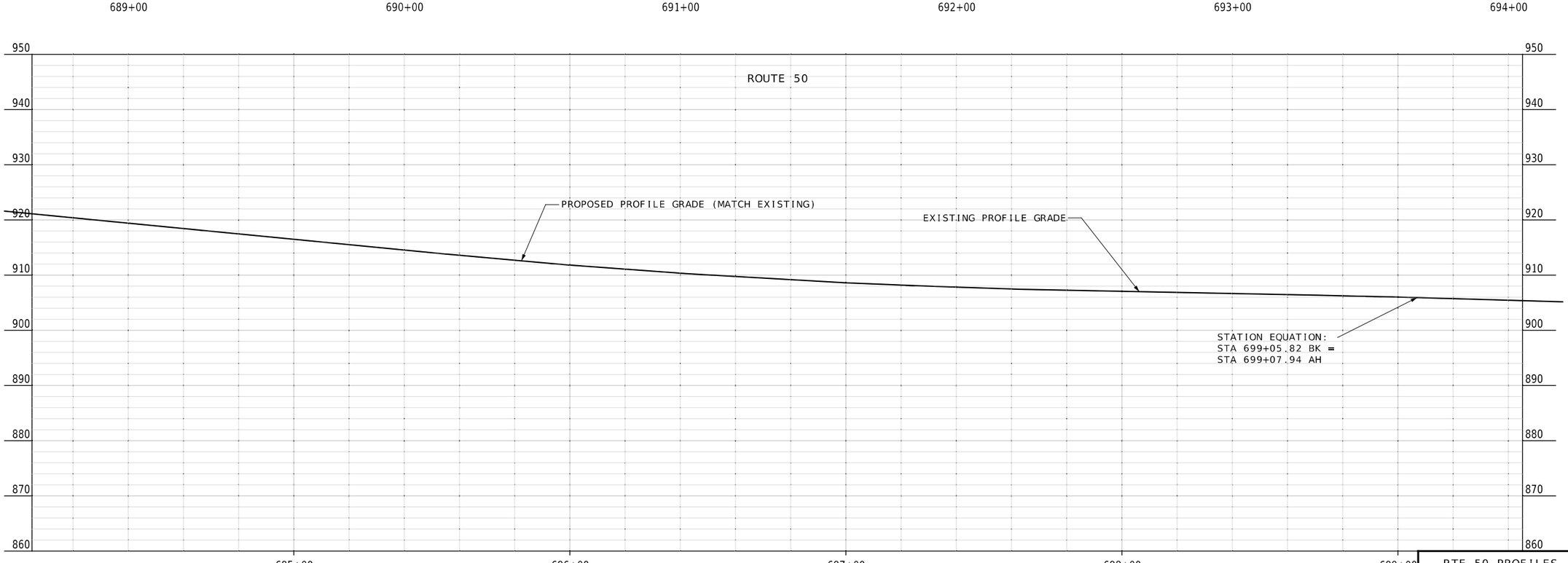

RTE 50 PROFILES
SHEET 3 OF 4

$FILE$ $TIME$ $DATE$

STATE OF MISSOURI
COLLIN J. WILCOX
NUMBER PE-2019035614
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED, AND DATED ELECTRONICALLY

DATE PREPARED
4/8/2024

ROUTE	STATE
50	MO
DISTRICT	SHEET NO.
CD	16

COUNTY
OSAGE

JOB NO.
J5P3574

CONTRACT ID.
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PROJECT NO.
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BRIDGE NO.
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DESCRIPTION	DATE
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MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

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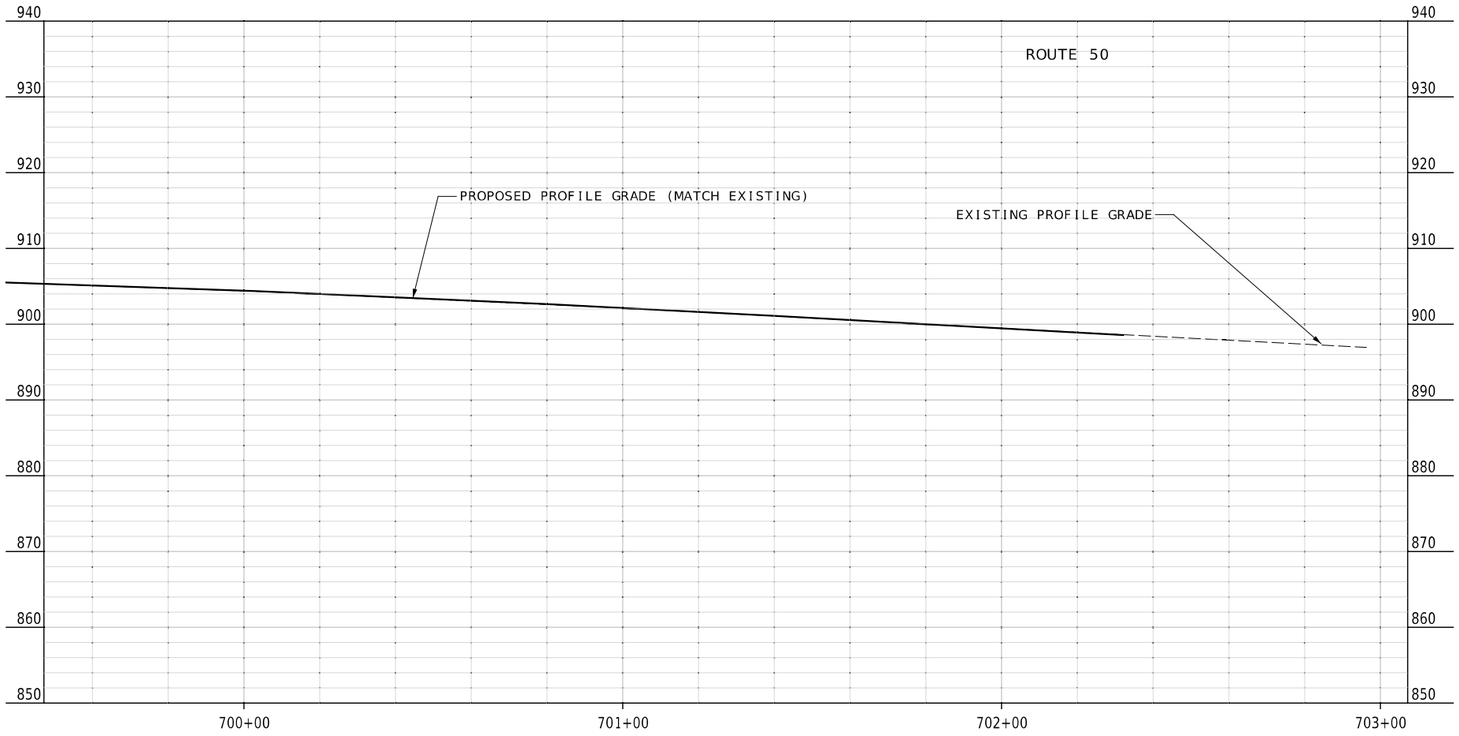

RTE 50 PROFILES
SHEET 4 OF 4

$FILE$ $TIME$ $DATE$

STATE OF MISSOURI
COLLIN J. WILCOX
NUMBER PE-2019035614
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED, AND DATED ELECTRONICALLY

DATE PREPARED
4/8/2024

ROUTE	STATE
50	MO
DISTRICT	SHEET NO.
CD	17

COUNTY
OSAGE

JOB NO.
J5P3574

CONTRACT ID.
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PROJECT NO.
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BRIDGE NO.
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DESCRIPTION	DATE
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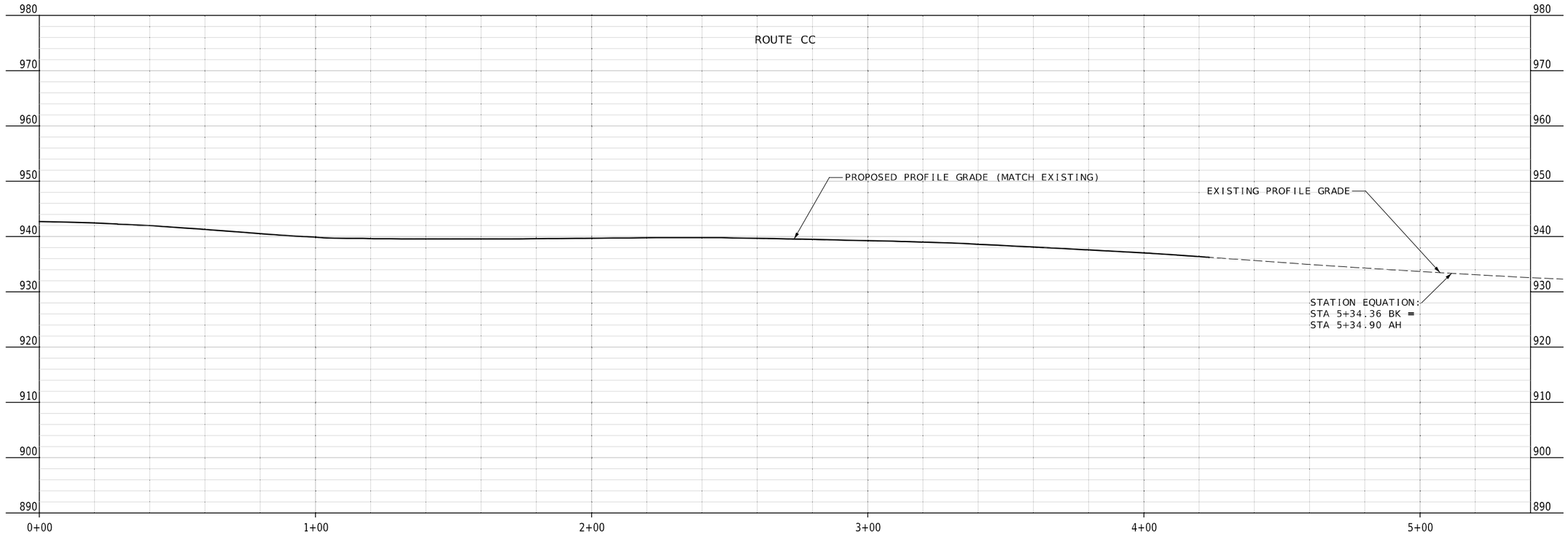

RTE CC PROFILES
SHEET 1 OF 1

$FILE$ $TIME$ $DATE$

COLLIN J. WILCOX NUMBER PE-2019035614
STATE OF MISSOURI
PROFESSIONAL ENGINEER

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DATE PREPARED
4/8/2024

ROUTE	STATE
50	MO
DISTRICT	SHEET NO.
CD	18

COUNTY
OSAGE

JOB NO.
J5P3574

CONTRACT ID.
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PROJECT NO.
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BRIDGE NO.
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DESCRIPTION	DATE
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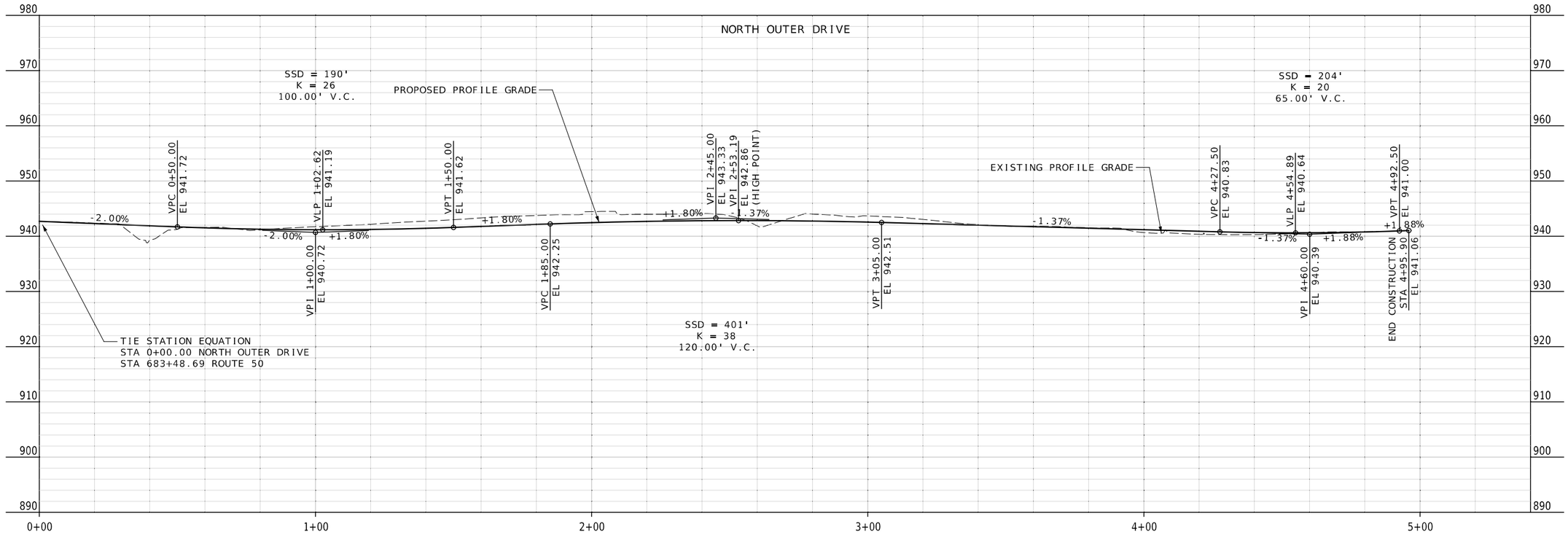

N OUTER DR PROFILES
SHEET 1 OF 1

$FILE$ $TIME$ $DATE$

COLLIN J. WILCOX NUMBER PE-2019035614
STATE OF MISSOURI
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED, AND DATED ELECTRONICALLY

DATE PREPARED
4/8/2024

ROUTE	STATE
50	MO
DISTRICT	SHEET NO.
CD	19

COUNTY
OSAGE

JOB NO.
J5P3574

CONTRACT ID.
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PROJECT NO.
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BRIDGE NO.
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DESCRIPTION	DATE
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St. Louis, MO 63101
Phone: 314.621.3395

PI 662+66.82
PC 649+87.50
PT 673+46.44
Δ 56°29'15.6" (LT)
D 2°24'20.9"
L 2,347.96' (ARC)
T 1,279.32'
R 2,381.55'

HARBOR PLACE RE-LINN, LLC
NO ACQUISITION

1/4, 1/4 SECTION LINE

665

+09.85
40.00'

+12.23
60.31'

+85.80
69.92'

+90.00
50.00'

SIGN (DND)

RELOCATED
WATER LINE
(BY OTHERS)

20' WATERLINE ESMT

20' WATERLINE ESMT AS
REC. IN BK-155, PG-416

R/W (NORMAL ACCESS)

6" PVC

S.L.

40' EXIST. MODOT R/W

ROUTE 50 ℄

MATCHLINE STA 668+40

S.L.

AT&T

BEGIN PROJECT
STA 666+90.00

100 GRANDE PROPERTIES, L.L.C.
PERM WATERLINE ESMT = 6087.72 SF (0.140 AC)
R/W TAKING = 4994.17 SF (0.115 AC)
REMAINING = 18.730 AC

D&E STORAGE, L.L.C.
NO ACQUISITION

SCALE
0 20 40 60

RECORDED LAND CORNER

STA 656+19.63 (Alignment - Rte-50)
OFF 2168.56' LT. (Alignment - Rte-50)
2188.07' N00°36'05"E OF
RTE 50 ℄ STA 666+01.53

SEC LINE

EX. MISSOURI DEPARTMENT OF
AGRICULTURE ALUM PM
FOUND AND ACCEPTED AS THE COMMON 1/4
CORNER OF SECTION'S 16 & 21, T43N,
R8W AS SHOWN BY MLS DOC. #600-98268

NE 1/4, NW 1/4
SECTION 21,
T43N, R8W

1/4 SECTION LINE

NW 1/4, NE 1/4
SECTION 21, T43N, R8W

GENERAL NOTES:
1) 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.
2) BEARINGS SHOWN ARE STATE PLANE BEARINGS, CENTRAL ZONE.
3) RIGHT OF WAY LIMITS FOR THIS PROJECT EXTEND FROM STA 666+09.85 TO STA 703+21.45. A DISTANCE OF 0.71 MILES.

SE 1/4, NW 1/4
SECTION 21, T43N, R8W

SW 1/4, NE 1/4
SECTION 21, T43N, R8W

LEGEND
TEMPORARY EASEMENT
PERMANENT EASEMENT
NEW RIGHT OF WAY

RTE 50 RIGHT OF WAY
PLAN SHEET 1 OF 10

$FILE$ $TIME$ $DATE$

COLLIN J. WILCOX NUMBER PE-2019035614
STATE OF MISSOURI PROFESSIONAL ENGINEER
THIS SHEET HAS BEEN SIGNED, SEALED, AND DATED ELECTRONICALLY

DATE PREPARED 7/19/2024
ROUTE 50 | STATE MO
DISTRICT CD | SHEET NO. 20
COUNTY OSAGE
JOB NO. J5P3574
CONTRACT ID.
PROJECT NO.
BRIDGE NO.

DESCRIPTION | DATE | REV.

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

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

LOCHMUELLER GROUP
411 North 10th Street, Suite 200
St. Louis, MO 63101
Phone: 314.621.3395

PI 662+66.82
PC 649+87.50
PT 673+46.44
Δ 56°29'15.6" (LT)
D 2°24'20.9"
L 2,347.96' (ARC)
T 1,279.32'
R 2,381.55'

SW 1/4, NE 1/4
SECTION 21, T43N, R8W

SCALE
0 20 40 60

① 100 GRANDE PROPERTIES, L.L.C.

② BAND PROPERTIES, LLC
PERM WATERLINE ESMT = 7173.00 SF (0.165 AC)
R/W TAKING = 7116.29 SF (0.163 AC)
REMAINING = 4.047 AC

③ WOLFE CEDAR GROVE APARTMENTS, L.L.C.

+66.30 100.00' +70.00 80.00'
+32.15 100.00 +30.00 80.00'
+20.00 60.00' +23.06 79.87
+50.02 70.11' +50.00 50.00'
+83.34 133.79'
+84.56 60.00' END R/W
+84.24 80.00'
+05.10 80.00'
+05.34 60.00'
PT +46.44 60.00'
+65.00 60.00'
+65.00 45.00'

20' AS-LAID RIGHT-OF-WAY (SEWER) ESMT

R/W (NORMAL ACCESS)

RELOCATED WATER LINE (BY OTHERS)

20' WATERLINE ESMT

20' WATERLINE ESMT AS REC. IN BK-155, PG-416

SIGN (TBRBO)

40' ROAD ESMT RESERVED BY NORTHERN LIGHTS DEVELOPMENT CO. AS REC. IN WD BK-534, PG-123

TRACT SUBJECT TO: A 20' AS-LAID R/W ESMT TO 3 RIVERS ELEC. AS REC. IN BK-542, PG-169

TEMP CONST ESMT

EXIST. MODOT R/W

MATCHLINE STA 668+40.00

MATCHLINE STA 673+90.00

ROUTE 50 ℄

N75°10'48"E

PT STA ℄ 673+46.44

EQUATION:
LSA 673+35.46 BK
STA 673+46.44 AH

+84.88 40.00'

S.L.

BM #62 (FND. NAIL IN LP)

10' UTIL. ESMT. (CSRB-23, PG-27)

20' AS-LAID RIGHT-OF-WAY (SEWER) ESMT AS REC. IN BK-374, PG'S-153 THRU 158

GREEN ACRES DR. (CNTY. RD. 800)

10' UTIL. ESMT. (CSRB-23, PG-29)

10' UTIL. ESMT. (CSRB-23, PG-27)

D&E STORAGE, L.L.C.
NO ACQUISITION

THE STATE OF MISSOURI ACTING BY AND THROUGH THE MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

LEGEND
- TEMPORARY EASEMENT
- PERMANENT EASEMENT
- NEW RIGHT OF WAY

RTE 50 RIGHT OF WAY
PLAN SHEET 2 OF 10

COLLIN J. WILCOX NUMBER PE-2019035614
STATE OF MISSOURI PROFESSIONAL ENGINEER
THIS SHEET HAS BEEN SIGNED, SEALED, AND DATED ELECTRONICALLY

DATE PREPARED 7/19/2024
ROUTE 50 | STATE MO
DISTRICT CD | SHEET NO. 21
COUNTY OSAGE
JOB NO. J5P3574
CONTRACT ID.
PROJECT NO.
BRIDGE NO.

DESCRIPTION | DATE

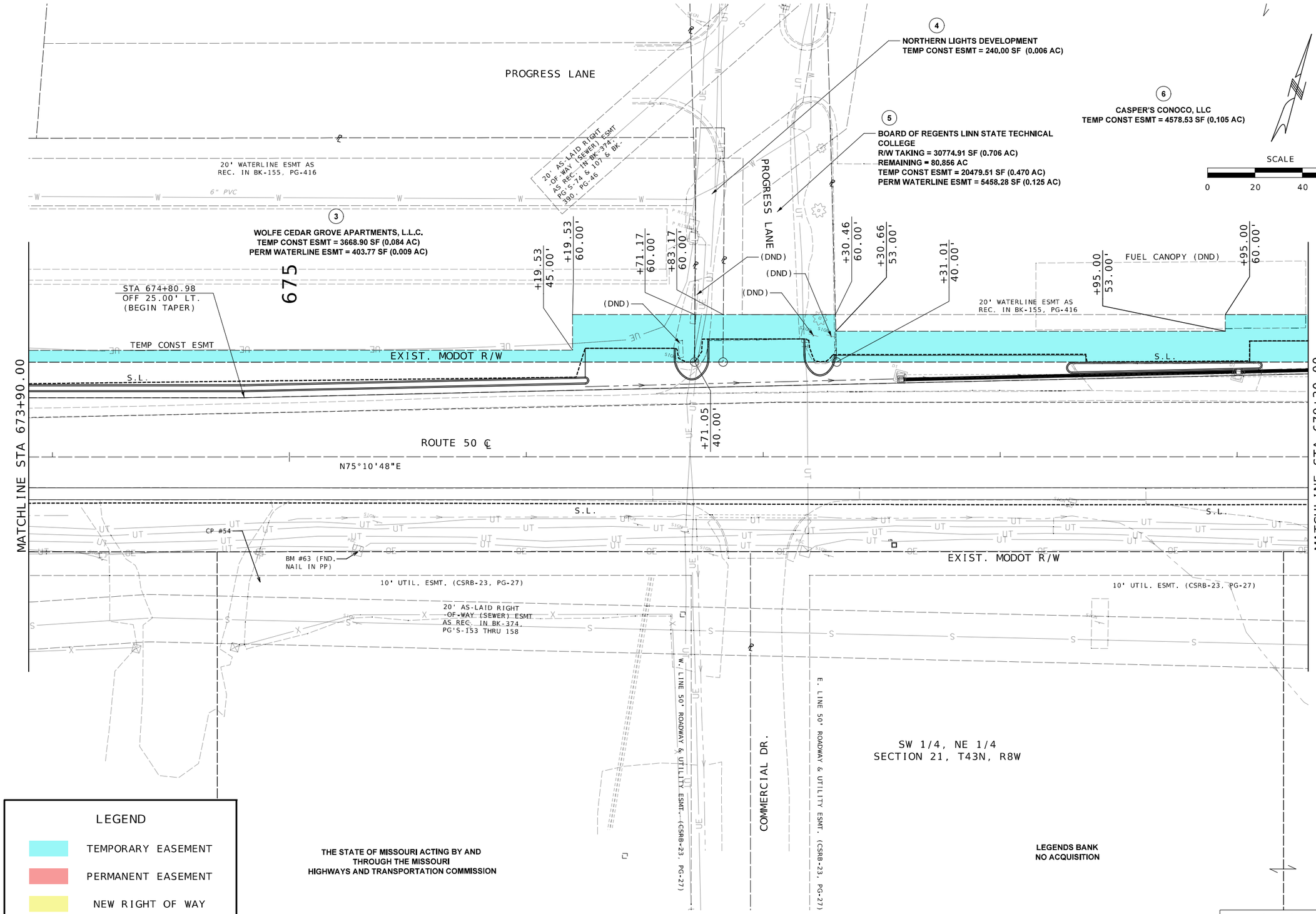
MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

LOCHMUELLER GROUP
411 North 10th Street, Suite 200
St. Louis, MO 63101
Phone: 314.621.3395

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

REV.

$FILE$ $TIME$ $DATE$



RTE 50 RIGHT OF WAY
PLAN SHEET 3 OF 10

COLLIN J. WILCOX NUMBER PE-2019035614 PROFESSIONAL ENGINEER STATE OF MISSOURI

THIS SHEET HAS BEEN SIGNED, SEALED, AND DATED ELECTRONICALLY

DATE PREPARED 4/8/2024

ROUTE	STATE
50	MO
DISTRICT	SHEET NO.
CD	22

COUNTY: OSAGE
JOB NO.: J5P3574
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)

LOCHMUELLER GROUP
411 North 10th Street, Suite 200
St. Louis, MO 63101
Phone: 314.621.3395

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

REV.

$FILE$ $TIME$ $DATE$

SW 1/4, NE 1/4
SECTION 21, T43N, R8W

SE 1/4, NE 1/4
SECTION 21, T43N, R8W

SCALE
0 20 40 60

(7)
TK RENTALS, L.L.C.
R/W TAKING = 1427.77 SF (0.033AC)
REMAINING = 0.787 AC
TEMP CONST ESMT = 344.15 SF (0.008 AC)
PERM WATERLINE ESMT = 1591.03 SF (0.037 AC)

(6)
CASPER'S CONOCO, LLC
TEMP CONST ESMT = 4578.53 SF (0.105 AC)

(8)
LSC COMMUNICATIONS BOOK, LLC
R/W TAKING = 29478 SF (0.677 AC)
REMAINING = 28.834 AC
TEMP CONST ESMT = 9824 SF (0.226 AC)

20' WATERLINE ESMT AS REC. IN BK-155, PG-416

20' WATERLINE ESMT AS REC. IN BK-155, PG-416 & BK-163, PG-167

20' WATERLINE ESMT

SIGN (TBRBO)

BM #60 (CHIS. SQ.)

R/W (NORMAL ACCESS

R/W (CONTR ACCESS)

BEGIN CONTR ACC R\W

RELOCATED WATER LINE (BY OTHERS)

(REL BO)

(TBRBO)

(DND)

TEMP CONST ESMT

CP #53

TEMP CONST ESMT

R/W (CONTR ACCESS)

IN OUTER DRIVE

SEE UTILITY

+17.22 50.00'
+19.90 60.00'
+23.17 72.21'
+22.58 60.00'
+94.09 70.00'
+00.23 92.47'
+97.16 81.24'
+27.32 89.63'
+30.00 80.00'
+10.00 80.00'
+70.00 155.00'
+70.00 170.00'
+25.00 176.07'
+55.00 200.00'
+14.54 40.00'
+14.92 40.00'
+14.91 45.40'

680

MATCHLINE STA 679+30.00

MATCHLINE STA 684+70.00

ROUTE 50 ℄

N75°10'48"E

EXIST. MODOT R/W

PC STA 0+37.00

683+48.69 (RTE50)
0+00.00 (OCCC_DR)

START STA 0+00.00

683+54.70 (RTE50)
0+00.00 (RTECC)

PR ℄ ROUTE CC

EX ℄ ROUTE CC

S11°53'31"E

(DND)

BAND PROPERTIES, LLC
NO ACQUISTION

20' AS-LAID RIGHT-OF-WAY (SEWER) ESMT AS REC. IN BK-374, PG'S-153 THRU 158

+84.76 PR ℄ RTE CC
44.00'

+92.32 PR ℄ RTE CC
34.00'

+99.94 PR ℄ RTE CC
24.01'

ACCESS ESMT. (WD BK-505, PG-102)
(BENEFIT OF GIER HOLDING LLC)

1/4, 1/4 SECTION LINE

(10)

GIER HOLDING L.L.C.
R/W TAKING = 2916.71 SF (0.067 AC)
REMAINING = 1.653 AC
TEMP CONST ESMT = 3542.65 SF (0.081 AC)

R/W (NORMAL ACCESS)

TEMP CONST ESMT

20' AS-LAID RIGHT-OF-WAY (SEWER) ESMT.

LION'S CLUB OF LINN
NO ACQUISTION

LEGENDS BANK
NO ACQUISTION

MATCHLINE STA 1+40.00

6" PVC

LEGEND

- TEMPORARY EASEMENT
- PERMANENT EASEMENT
- NEW RIGHT OF WAY

RTE 50 RIGHT OF WAY
PLAN SHEET 4 OF 10

$FILE$ $TIMES$ $DATE$

STATE OF MISSOURI
COLLIN J. WILCOX
NUMBER PE-2019035614
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED, AND DATED ELECTRONICALLY

DATE PREPARED
7/19/2024

ROUTE	STATE
50	MO
DISTRICT	SHEET NO.
CD	23

COUNTY
OSAGE

JOB NO.
J5P3574

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DATE	DESCRIPTION	REV.

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

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

LOCHMUELLER GROUP
411 North 10th Street, Suite 200
St. Louis, MO 63101
Phone: 314.621.3395

9

OSAGE COUNTY COMMUNITY CENTER, INC.
R/W TAKING = 14371.30 SF (0.330 AC)
REMAINING = 3.390 AC
TEMP CONST ESMT = 23447.87 (0.538 AC)
PERM WATERLINE ESMT = 1019.66 SF (0.023 AC)

SE 1/4, NE 1/4
SECTION 21, T43N, R8W

SCALE
0 20 40 60

PI	691+72.68
PC	687+84.70
PT	695+50.20
Δ	23°1'11.41" (RT)
D	3°0'25.8"
L	765.50' (ARC)
T	387.98'
R	1,905.31"

STA 2+24.16
OFF 88.71' LT.
(DND)
(TBRBO) (TREC)
APPROX. (LIMBAL)
+60.62
215.00'
+75.00
235.00'
+37.55
130.00'
STA 3+22.80
OFF 98.56' LT.
TEMP CONST ESMT
S.L.
STA 4+32.10
OFF 38.26' LT.
(TBRBO)
END N OUTER DR. CONSTRUCTION
STA 4+66.30
PRC STA 2+54.22
PT STA 3+52.52
+15.08
105.00'
(DND)
END STA 4+95.90
+84.70
75.19'
RELOCATED WATER LINE (BY OTHERS)
R/W (CONTR ACCESS)
+70.00
60.00'
END CONTR ACC R/W
+90.04
60.52'
+89.46
80.51'
+00.00
75.19'
SEE UTILITY NOTE.
N OUTER DRIVE
6" PVC
20' WATERLINE ESMT AS REC. IN BK-155, PG-416
EXIST. MODOT R/W
(TBRBO) (TREC)
(R)
+15.00
60.00'
(TBRBO)
(R)
+49.31
46.39'
+49.33
40.00'
PC STA 687+84.70
EQUATION:
STA 687+84.70 AH = STA 687+84.70 BK
ROUTE 50 ℄
N75°10'48"E
(TBRBO)
(LAKESIDE)
13'
5'
S.L.
EXIST. MODOT R/W
BM / CP #50
MATCHLINE STA 684+70
MATCHLINE STA 690+00
20' AS-LAID RIGHT -OF-WAY (SEWER) ESMT.
10'x20' ADDITIONAL STRIP OF R/W AS DESCRIBED IN REPORT OF COMMISSIONER'S AS REC. IN BOOK 64, PAGE 327. (UNKNOWN ABOUT VALIDITY AS NO OTHER REFERENCES TO PORTION ON EX. PLAN SETS)

OWNER: LION'S CLUB OF LINN
NO ACQUISTION

LEGEND
- TEMPORARY EASEMENT
- PERMANENT EASEMENT
- NEW RIGHT OF WAY

RTE 50 RIGHT OF WAY
PLAN SHEET 5 OF 10

$FILE$ $TIME$ $DATE$

STATE OF MISSOURI
COLLIN J. WILCOX
NUMBER PE-2019035614
PROFESSIONAL ENGINEER
THIS SHEET HAS BEEN SIGNED, SEALED, AND DATED ELECTRONICALLY

DATE PREPARED: 7/19/2024
ROUTE: 50 | STATE: MO
DISTRICT: CD | SHEET NO.: 24
COUNTY: OSAGE
JOB NO.: J5P3574
CONTRACT ID.:
PROJECT NO.:
BRIDGE NO.:

REV.	DESCRIPTION	DATE

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

LOCHMUELLER GROUP
411 North 10th Street, Suite 200
St. Louis, MO 63101
Phone: 314.621.3395

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

SE 1/4, NE 1/4
SECTION 21, T43N, R8W

(5)

BOARD OF REGENTS LINN STATE TECHNICAL COLLEGE
R/W TAKING = 30774.91 SF (0.706 AC)
REMAINING = 80.856 AC
TEMP CONST ESMT = 20479.51 SF (0.470 AC)
PERM WATERLINE ESMT = 5458.28 SF (0.125 AC)

MATCHLINE STA 3+00

(TBRBO)

STA 2+84.47
OFF 19.50' LT.

+27.70
193.37'

TECHNOLOGY DR

N14°02'17"W

TEMP CONST ESMT

TEMP CONST ESMT

S.L.

(TBRBO)

(TBRBO)

(TBRBO)

+30.79
70.32'

+68.81
95.00'

+70.00
75.00'

ALL TREES WITHIN NEW RIGHT OF WAY AND UTILITY EASEMENT ON PARCEL 5 TO BE REMOVED

20' WATERLINE ESMT

+00.00
95.00'

+00.00
75.00'

RELOCATED WATER LINE (BY OTHERS)

R/W (NORMAL ACCESS)

20' WATERLINE S.L. ESMT AS REC. IN BK-155, PG-416

+85.00
55.00'

+46.53
55.00'

CP #51

+65.15
60.00

695

6" PVC

EXIST. MODOT R/W

1:45 TAPER (155 LF)

SECTION LINE

SCALE
0 20 40 60

MATCHLINE STA 690+00

690+77.19 (RTE50)
1+00.00 (TECH_N)

START STA 1+00.00

ROUTE 50 ℄

ABANDONED SERVICE LINE

S.L.

EXIST. MODOT R/W

2" PVC

GATE WILL PERMANENTLY BE CLOSED

20' AS-LAID RIGHT -OF-WAY (SEWER) ESMT.

MATCHLINE STA 695+20

SECTION LINE

LION'S CLUB OF LINN
NO ACQUISTION

PI	691+72.68
PC	687+84.70
PT	695+50.20
Δ	23°1'11.41" (RT)
D	3°0'25.8"
L	765.50' (ARC)
T	387.98'
R	1,905.31"

SW 1/4, NW 1/4
SECTION 22, T43N, R8W

LEGEND

- TEMPORARY EASEMENT
- PERMANENT EASEMENT
- NEW RIGHT OF WAY

RTE 50 RIGHT OF WAY
PLAN SHEET 6 OF 10

$FILE$ $TIME$ $DATE$

STATE OF MISSOURI
COLLIN J. WILCOX
NUMBER PE-2019035614
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED, AND DATED ELECTRONICALLY

DATE PREPARED
7/19/2024

ROUTE	STATE
50	MO
DISTRICT	SHEET NO.
CD	25

COUNTY
OSAGE

JOB NO.
J5P3574

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

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

DESCRIPTION	DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

LOCHMUELLER GROUP
411 North 10th Street, Suite 200
St. Louis, MO 63101
Phone: 314.621.3395

REV.

SW 1/4, NW 1/4
SECTION 22, T43N, R8W

5

BOARD OF REGENTS LINN STATE TECHNICAL COLLEGE
R/W TAKING = 30774.91 SF (0.706 AC)
REMAINING = 80.856 AC
TEMP CONST ESMT = 20479.51 SF (0.470 AC)
PERM WATERLINE ESMT = 5458.28 SF (0.125 AC)

SCALE
0 20 40 60

RELOCATED WATER LINE (BY OTHERS)

PT +50.20
60.00'

PT +50.20
70.00'

+90.00
60.00'

+00.00
70.00'

+50.00
60.00'

+50.00
60.00'

+95.00
80.00'

20' AS-LAID RIGHT -OF-WAY (SEWER) ESMT AS REC. IN BK-374, PG 86

20' AS-LAID RIGHT -OF-WAY (SEWER) ESMT AS REC. IN BK-374, PG 86

CP #52

TEMP CONST ESMT

R/W (NORMAL ACCESS)

EXIST. MODOT R/W

EXIST. MODOT R/W

ROUTE 50 ℄

S81°48'01"E

PT STA D 695+50.20

MATCHLINE STA 695+20

MATCHLINE STA 700+50

PC STA E 699+07.94

EQUATION STA 699+55.82 BK = STA 699+07.94 AH

BAND PROPERTIES, LLC
NO ACQUISTION

REORGANIZED SCHOOL DISTRICT NO. R-II OF OSAGE COUNTY
NO ACQUISITION

LEGEND

- TEMPORARY EASEMENT
- PERMANENT EASEMENT
- NEW RIGHT OF WAY

RTE 50 RIGHT OF WAY
PLAN SHEET 7 OF 10

$FILE$ $TIME$ $DATE$

STATE OF MISSOURI
COLLIN J. WILCOX
NUMBER PE-2019035614
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED, AND DATED ELECTRONICALLY

DATE PREPARED
7/19/2024

ROUTE	STATE
50	MO
DISTRICT	SHEET NO.
CD	26

COUNTY
OSAGE

JOB NO.
J5P3574

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

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

DESCRIPTION

DATE

REV.

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

LOCHMUELLER GROUP
411 North 10th Street, Suite 200
St. Louis, MO 63101
Phone: 314.621.3395

SW 1/4, NW 1/4
SECTION 22, T43N, R8W

(5)

BOARD OF REGENTS LINN STATE TECHNICAL COLLEGE
R/W TAKING = 30774.91 SF (0.706 AC)
REMAINING = 80.856 AC
TEMP CONST ESMT = 20479.51 SF (0.470 AC)
PERM WATERLINE ESMT = 5458.28 SF (0.125 AC)

SCALE
0 20 40 60

PI	704+89.46
PC	699+07.945
PT	710+12.60
Δ	44°14'41.7" (LT)
D	4°0'19.1"
L	1,104.66' (ARC)
T	581.52'
R	1,430.50'

+60.00
60.00'

+65.00
40.00'

APPROX. (UNMARKED)

20' AS-LAID RIGHT -OF-WAY (SEWER) ESMT AS REC. IN BK-374, PG 86

R/W (NORMAL ACCESS)

S.L.

6" PVC

705

PROJECT END
STA 702+32.12

EXIST. MODOT R/W

MATCHLINE STA 700+50

ROUTE 50 ℄

S.L.

SIGN

APPROX. (UNMARKED)

P RISER

EXIST. MODOT R/W

RECORDED LAND CORNER

SEC LINE

STA 693+44.50 (Alignment - Rte-50)
OFF 1704.47' LT. (Alignment - Rte-50)
1705.76' N00°21'47"E OF
RTE 50 ℄ STA 693+93.64

SEC LINE

EX. MISSOURI DEPARTMENT OF AGRICULTURE ALUM, PM (CAP BROKE OFF AND TOP DENTED/BENT) FOUND AND ACCEPTED AS THE COMMON CORNER OF SECTION'S 15, 16, 21 & 22, T43N, R8W AS SHOWN BY MLS DOC. #600-98269 AND SURVEY BOOK 3, PAGE 204

NE 1/4, NE 1/4 SECTION 21, T43N, R8W

NW 1/4, NW 1/4
SECTION 22, T43N, R8W

REORGANIZED SCHOOL DISTRICT NO. R-II OF OSAGE COUNTY
NO ACQUISTION

LEGEND

- TEMPORARY EASEMENT
- PERMANENT EASEMENT
- NEW RIGHT OF WAY

RTE 50 RIGHT OF WAY
PLAN SHEET 8 OF 10

$FILE$ $TIME$ $DATE$

STATE OF MISSOURI
COLLIN J. WILCOX
NUMBER PE-2019035614
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED, AND DATED ELECTRONICALLY

DATE PREPARED
4/8/2024

ROUTE	STATE
50	MO
DISTRICT	SHEET NO.
CD	27

COUNTY
OSAGE

JOB NO.
J5P3574

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DESCRIPTION	DATE

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

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

LOCHMUELLER GROUP
411 North 10th Street, Suite 200
St. Louis, MO 63101
Phone: 314.621.3395

REV.

SE 1/4, NE 1/4
SECTION 21, T43N, R8W

SCALE
0 20 40 60

OWNER: LION'S CLUB OF LINN
NO ACQUISTION

MATCHLINE STA 1+40.00

EX ℄ ROUTE CC
PR ℄ ROUTE CC
END CONSTRUCTION
STA 4+23.61
EXIST. MODOT R/W
PC STA 3+80.20
PT STA 5+34.90
PT STA 6+37.55
S27°20'31"E
EX ROUTE CC
PR ROUTE CC
EQUATION
STA 5+35.10 BK =
STA 5+34.90
S11°52'31"E
S.L.
R/W (NORMAL ACCESS)
TEMP CONST ESMT
PC STA 2+32.63
10' UTIL. ESMT. (CSRB-23, PG-27)
TEMP CONST ESMT.
VACUUM CLEANER ON ELEVATED CONCRETE COLUMN (DND)
STA 3+47.07 PR ℄ RTE CC
OFF 38.48'
STA 3+47.02 PR ℄ RTE CC
OFF 48.50'
STA 4+36.63 PR ℄ RTE CC
OFF 45.15'
STA 4+37.46 PR ℄ RTE CC
OFF 35.15'

10

GIER HOLDING L.L.C.
R/W TAKING = 2916.71 SF (0.067 AC)
REMAINING = 1.653 AC
TEMP CONST ESMT = 3542.65 SF (0.081 AC)

BAND PROPERTIES L.L.C.
NO ACQUISTION

LEGEND
- TEMPORARY EASEMENT
- PERMANENT EASEMENT
- NEW RIGHT OF WAY

RTE 50 RIGHT OF WAY
PLAN SHEET 9 OF 10

COLLIN J. WILCOX NUMBER PE-2019035614
PROFESSIONAL ENGINEER — STATE OF MISSOURI
THIS SHEET HAS BEEN SIGNED, SEALED, AND DATED ELECTRONICALLY

DATE PREPARED: 4/8/2024
ROUTE: 50 | STATE: MO
DISTRICT: CD | SHEET NO.: 28
COUNTY: OSAGE
JOB NO.: J5P3574
CONTRACT ID.:
PROJECT NO.:
BRIDGE NO.:

DESCRIPTION | DATE

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

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

LOCHMUELLER GROUP
411 North 10th Street, Suite 200
St. Louis, MO 63101
Phone: 314.621.3395

REV.

$FILE$ $TIME$ $DATE$

SE 1/4, NE 1/4
SECTION 21, T43N, R8W

10

START STA 10+00.00

STA 4+73.11

EAST TECHNOLOGY DR

N75°21'33"E

1/4, 1/4 SECTION LINE

END STA 13+50.00

APPROX. (UNMARKED) LOT PRIVATE LINE

P RISER

SIGN

W

FO

S

UE

STA 3+89.63
OFF 19.50' RT.
END CONSTRUCTION

+67.43
311.43'

+18.51
304.53'

TECHNOLOGY DR

N14°02'17"W

TEMP CONST ESMT

S.L.

(TBRBO)

MATCHLINE STA 3+00.00

SCALE

0 20 40 60

5

BOARD OF REGENTS LINN STATE TECHNICAL COLLEGE
R/W TAKING = 30774.91 SF (0.706 AC)
REMAINING = 80.856 AC
TEMP CONST ESMT = 20479.51 SF (0.470 AC)
PERM WATERLINE ESMT = 5458.28 SF (0.125 AC)

LEGEND

- TEMPORARY EASEMENT
- PERMANENT EASEMENT
- NEW RIGHT OF WAY

RTE 50 RIGHT OF WAY
PLAN SHEET 10 OF 10

STATE OF MISSOURI
COLLIN J. WILCOX
NUMBER
PE-2019035614
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED, AND DATED ELECTRONICALLY

DATE PREPARED
4/8/2024

ROUTE	STATE
50	MO
DISTRICT	SHEET NO.
CD	29

COUNTY
OSAGE

JOB NO.
J5P3574

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DESCRIPTION	DATE

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

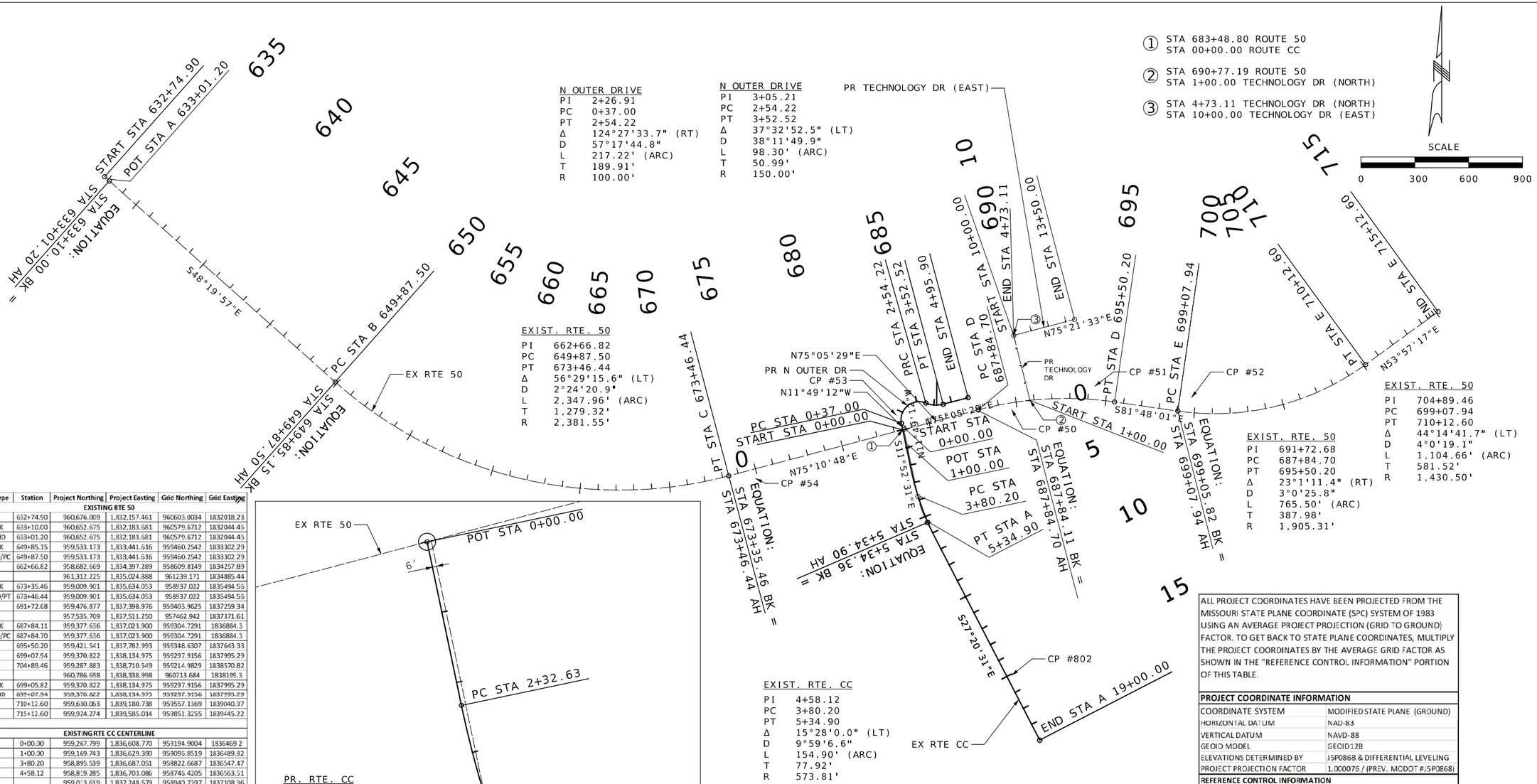
MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

LOCHMUELLER GROUP
411 North 10th Street, Suite 200
St. Louis, MO 63101
Phone: 314.621.3395

REV.

$FILE$ $TIME$ $DATE$



Point Type	Station	Project Northing	Project Easting	Grid Northing	Grid Easting
EXISTING RTE 50					
POT	632+74.90	960,676.009	1,832,157.461	960603.0034	1832018.23
EQN BK	633+10.00	960,652.675	1,832,183.681	960579.6712	1832044.45
EQN AHD	633+01.20	960,652.675	1,832,183.681	960579.6712	1832044.45
EQN BK	649+85.15	959,533.173	1,833,441.616	959460.2542	1833302.29
EQN AHD/PC	649+87.50	959,533.173	1,833,441.616	959460.2542	1833302.29
HPI	662+66.82	958,682.669	1,834,397.289	958609.8149	1834257.89
CC		961,312.225	1,835,024.888	961239.171	1834885.44
EQN BK	673+35.46	959,009.901	1,835,634.053	958937.022	1835494.55
EQN AHD/PT	673+46.44	959,009.901	1,835,634.053	958937.022	1835494.55
HPI	691+72.68	959,476.877	1,837,398.976	959403.9625	1837259.34
CC		957,535.709	1,837,511.250	957462.942	1837371.61
EQN BK	687+84.11	959,377.636	1,837,023.900	959304.7291	1836884.3
EQN AHD/PC	687+84.70	959,377.636	1,837,023.900	959304.7291	1836884.3
PT	695+50.20	959,421.541	1,837,782.993	959348.6307	1837643.33
PC	699+07.94	959,370.822	1,838,134.975	959297.9156	1837995.29
HPI	704+89.46	959,287.883	1,838,710.549	959214.9829	1838570.82
CC		960,786.698	1,838,338.958	960713.684	1838195.3
EQN BK	699+05.82	959,370.822	1,838,134.975	959297.9156	1837995.29
EQN AHD	699+07.94	959,370.822	1,838,134.975	959297.9156	1837995.29
PT	710+12.60	959,630.063	1,839,180.738	959557.1369	1839040.97
POT	715+12.60	959,924.274	1,839,585.014	959851.3255	1839445.22
EXISTING RTE CC CENTERLINE					
POT	0+00.00	959,267.799	1,836,608.770	959194.9004	1836469.2
HPI	1+00.00	959,169.743	1,836,629.390	959095.8519	1836489.82
PC	3+80.20	958,895.539	1,836,687.051	958822.6687	1836547.47
HPI	4+58.12	958,819.285	1,836,703.086	958745.4205	1836563.51
CC		959,013.619	1,837,248.579	958940.7397	1837108.96
EQN BK	5+35.10	958,750.068	1,836,738.876	958677.2087	1836599.29
EQN AHD/PT	5+34.90	958,750.068	1,836,738.876	958677.2087	1836599.29
POT	19+00	957,537.476	1,837,365.868	957464.7089	1837226.24
PROPOSED RTE CC BASELINE					
POT	0+00.00	959,266.262	1,836,502.962	959193.3635	1836463.39
HPI	0+99.89	959,168.508	1,836,523.518	959095.6169	1836483.95
PC	2+32.63	959,038.607	1,836,550.835	958965.7258	1836511.26
HPI	4+36.33	958,839.270	1,836,592.752	958766.404	1836553.17
CC		959,347.282	1,838,118.731	959274.3774	1837979.05
PT	6+37.55	958,658.330	1,836,786.310	958585.4777	1836646.73
POT	18+99.37	957,537.476	1,837,365.868	957464.7089	1837226.24
PROPOSED NORTH OUTER DRIVE					
POT	0+00.00	959,266.262	1,836,502.962	959193.3635	1836463.39
PC	0+37.00	959,302.477	1,836,595.383	959229.5758	1836455.81
HPI	2+26.91	959,488.356	1,836,556.483	959415.4406	1836416.92
CC		959,322.961	1,836,593.263	959250.0582	1836553.69
PRC	2+54.22	959,415.256	1,836,731.756	959342.3462	1836592.18
HPI	3+05.21	959,395.629	1,836,778.815	959322.7207	1836639.23
CC		959,553.698	1,836,789.495	959480.7777	1836649.91
PT	3+52.52	959,408.747	1,836,828.087	959335.8377	1836688.5
POT	4+95.90	959,445.636	1,836,966.640	959372.7239	1836827.04
PROPOSED NORTH TECHNOLOGY DR					
POT	1+00.00	959,430.496	1,837,311.277	959357.585	1837171.65
POT	4+73.11	959,792.463	1,837,220.773	959719.5245	1837081.16
PROPOSED EAST TECHNOLOGY DR					
POT	10+00.00	959,792.463	1,837,220.773	959719.5245	1837081.16
POT	13+50.00	959,880.928	1,837,559.408	959807.9828	1837419.76

ALL PROJECT COORDINATES HAVE BEEN PROJECTED FROM THE MISSOURI STATE PLANE COORDINATE (SPC) SYSTEM OF 1983 USING AN AVERAGE PROJECT PROJECTION (GRID TO GROUND) FACTOR. TO GET BACK TO STATE PLANE COORDINATES, MULTIPLY THE PROJECT COORDINATES BY THE AVERAGE GRID FACTOR AS SHOWN IN THE "REFERENCE CONTROL INFORMATION" PORTION OF THIS TABLE.

PROJECT COORDINATE INFORMATION	
COORDINATE SYSTEM	MODIFIED STATE PLANE (GROUND)
HORIZONTAL DATUM	NAD-83
VERTICAL DATUM	NAVD-88
GEOID MODEL	GEOID12B
ELEVATIONS DETERMINED BY	J5P0868 & DIFFERENTIAL LEVELING
PROJECT PROJECTION FACTOR	1.000076 / (PREV. MODOT #J5P0868)
REFERENCE CONTROL INFORMATION	
COORDINATE SYSTEM	MODIFIED STATE PLANE
CONTROL STATION	CORS
DESIGNATION	MODOT VIENNA CORS ARP
CORS_ID	MOVE
PID	DL6151
LATITUDE	N38°11'29.10968"
LONGITUDE	W091°56'55.26052
NORTHING (M)	261821.696
EASTING (M)	548294.306
ZONE	(2402) MO CENTRAL
AVERAGE PROJECT GRID FACTOR	0.999924006
EXAMPLE OF PROJECT COORDINATE TO S.P.C.	
PROJECT NORTHING X AVERAGE GRID FACTOR EQUALS STATE PLANE NORTHING	
PROJECT EASTING X AVERAGE GRID FACTOR EQUALS STATE PLANE EASTING	
EXAMPLE: CONTROL POINT #802	
N 957839.62 X 0.999924006 = N 957826.8254	
E 1837211.18 X 0.999924006 = E 1837071.563	
LINEAR UNIT CONVERSION	
1 METER = 3.280833333 US SURVEY FEET (USFT)	

ALIGNMENT TIE EQUATIONS

POT STA 683+48.69 ℄ RTE 50 = POT STA 0+00.00 ℄ N OUTER DR/℄ PR RTE CC

POT STA 683+54.70 ℄ RTE 50 = POT STA 0+00.00 ℄ RTE CC

POC STA 690+77.19 ℄ RTE 50 = POT STA 1+00.00 ℄ TECHNOLOGY DR

ALIGNMENT, TIES, AND COORDINATES

$FILE$ $TIME$ $DATE$

COLLIN J. WILCOX NUMBER PE-2019035614 PROFESSIONAL ENGINEER
STATE OF MISSOURI
THIS SHEET HAS BEEN SIGNED, SEALED, AND DATED ELECTRONICALLY

DATE PREPARED 4/8/2024

ROUTE	STATE
50	MO
DISTRICT	SHEET NO.
CD	30

COUNTY OSAGE

JOB NO. J5P3574

CONTRACT ID.

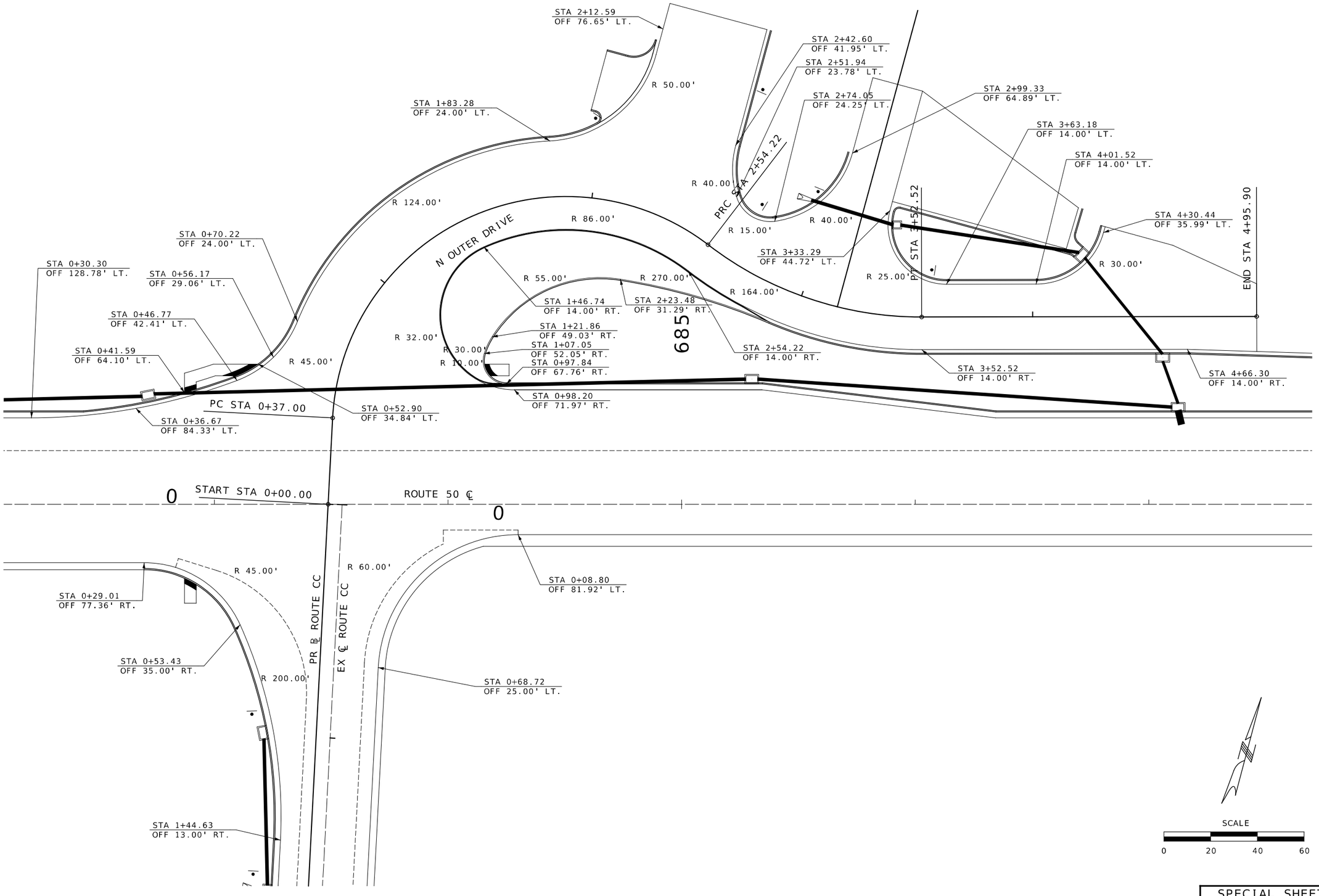
PROJECT NO.

BRIDGE NO.

DATE	DESCRIPTION

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

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)
MoDOT
LOCHMUELLER GROUP
411 North 10th Street, Suite 200
St. Louis, MO 63101
Phone: 314.621.3395



SPECIAL SHEET
1 OF 2

$FILE$ $TIME$ $DATE$

STATE OF MISSOURI
COLLIN J. WILCOX
NUMBER PE-2019035614
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED, AND DATED ELECTRONICALLY

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

DATE PREPARED	4/8/2024
ROUTE	50
STATE	MO
DISTRICT	CD
SHEET NO.	31
COUNTY	OSAGE
JOB NO.	J5P3574
CONTRACT ID.	.
PROJECT NO.	.
BRIDGE NO.	.

DESCRIPTION	DATE
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MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

LOCHMUELLER GROUP
411 North 10th Street, Suite 200
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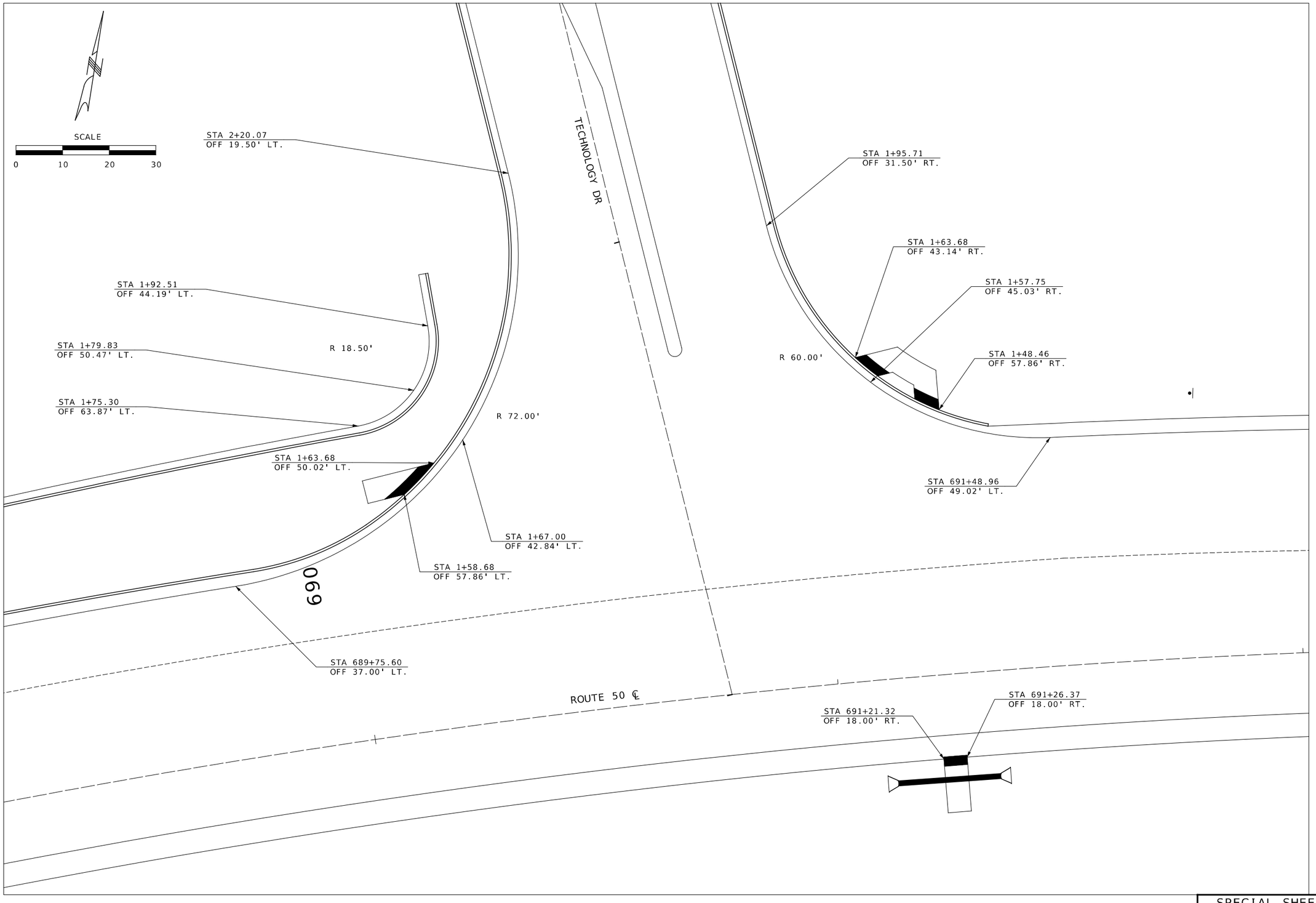

SPECIAL SHEET
2 OF 2

$FILE$ $TIME$ $DATE$

STATE OF MISSOURI
COLLIN J. WILCOX
NUMBER PE-2019035614
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED, AND DATED ELECTRONICALLY

DATE PREPARED
4/8/2024

ROUTE	STATE
50	MO
DISTRICT	SHEET NO.
CD	32

COUNTY
OSAGE

JOB NO.
J5P3574

CONTRACT ID.
.

PROJECT NO.
.

BRIDGE NO.
.

DESCRIPTION	DATE
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MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
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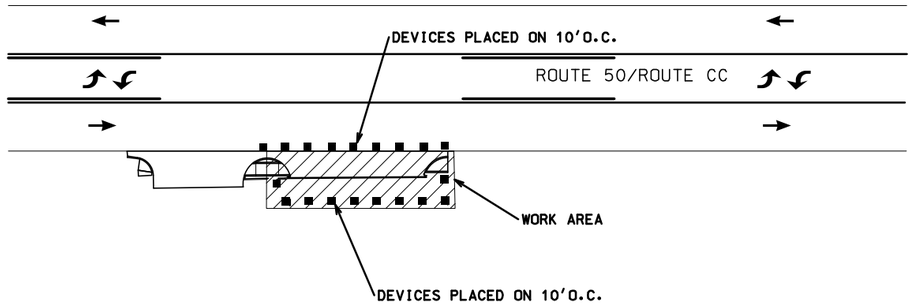
St. Louis, MO 63101
Phone: 314.621.3395

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

TYPICAL TRAFFIC CONTROL FOR ENTRANCE CONSTRUCTION



TRAFFIC CONTROL LEGEND

- SIGN (SINGLE SIDED)
- CHANNELIZERS (TRIMLINE)
- WORK AREA

NOTES:

1. IF PROPERTY HAS MULTIPLE ENTRANCES, THE CONTRACTOR MAY CLOSE ONE ENTIRE ENTRANCE.
2. IF PROPERTY HAS ONLY A SINGLE ENTRANCE, THEN THE ENTRANCE SHALL BE CONSTRUCTED HALF AT A TIME, WHERE POSSIBLE. OTHERWISE, THE CONTRACTOR SHALL COORDINATE WITH RESIDENTS IN ADVANCE TO PROVIDE ACCESS TO PROPERTY.
3. THE CONTRACTOR SHALL LIMIT THE WORK ZONE TO MINIMIZE IMPACT ACCESS TO THE BUSINESS.
4. THE CONTRACTOR SHALL NOT PARK EQUIPMENT OR STORE MATERIALS IN THE TEMPORARY EASEMENTS DURING NON-WORKING HOURS.
5. THE CONTRACTOR SHALL MAINTAIN ACCESS AT ALL TIMES TO THE PROPERTY.
6. SEE ALSO TRAFFIC CONTROL FOR SHOULDER WORK WITH TRAVELWAY ENCROACHMENT AS NEEDED.
7. THE CONTRACTOR IS RESPONSIBLE FOR COMPLETELY COVERING OR REMOVING ALL EXISTING SIGNING, PAVEMENT MARKINGS, OR SIGNALS THAT CONFLICT WITH THE TEMPORARY TRAFFIC CONTROL.
8. PAVEMENT EDGE TREATMENT SHALL BE PLACED AT THE CONTRACTOR'S EXPENSE WHENEVER REQUIRED BY STANDARD PLAN 619.10J.

DISCLAIMER

THE PROFESSIONAL WHOSE SIGNATURE AND PERSONAL SEAL APPEAR HEREON ASSUMES RESPONSIBILITY ONLY FOR WHAT APPEARS ON THIS PAGE, AND DISCLAIMS (PURSUANT TO SECTION 327.411 RSMO) SPECIFICATION, ESTIMATES, REPORTS, OR OTHER DOCUMENTS OR INSTRUMENTS NOT SEALED BY THE UNDERSIGNED PROFESSIONAL RELATING TO OR INTENDED TO BE USED FOR ANY PART OR PARTS OF THE PROJECT TO WHICH THIS PAGE REFERS.

NOT TO SCALE

STATE OF MISSOURI
BRYAN SCOT GREGORY
NUMBER PE-2006019659
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED: 3/1/2024

ROUTE	STATE
50	MO
DISTRICT	SHEET NO.
CD	33

COUNTY: OSAGE
JOB NO.: J5P3574
CONTRACT ID.:
PROJECT NO.:
BRIDGE NO.:

DESCRIPTION	DATE

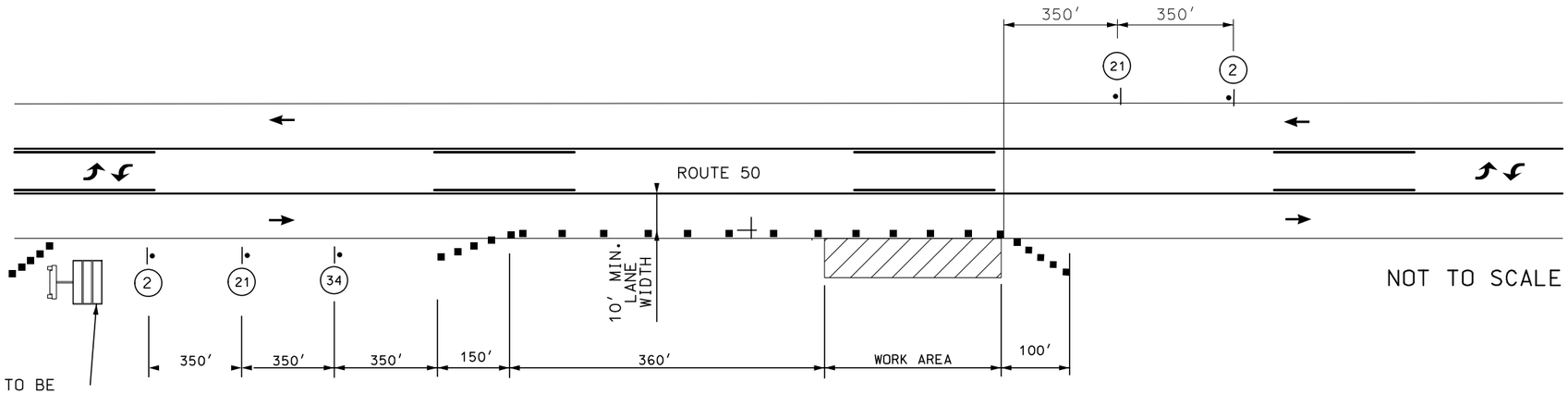
IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

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

Bartlett & West
601 MONROE ST. SUITE 201 - JEFFERSON CITY, MO 65101
PHONE 573-634-3161
CERTIFICATE OF AUTHORITY NO. 000167 - ENGINEERING
WWW.BARTLETTWEST.COM

TRAFFIC CONTROL PLAN
SHEET 1 OF 19

SHOULDER WORK WITH TRAVELWAY ENCROACHMENT



NOT TO SCALE

LOCATION OF CMS TO BE APPROVED BY THE ENGINEER. EACH CMS SHALL HAVE 5 CHANNELIZERS IN FRONT OF IT.

W05-1
(34)

W020-1
(2)

W021-5
(21)

NOTES:

1. SIGN SPACINGS MAY BE ADJUSTED AS NECESSARY TO MEET FIELD CONDITIONS.
2. THE CONTRACTOR IS RESPONSIBLE FOR COMPLETELY COVERING OR REMOVING ALL EXISTING SIGNING, PAVEMENT MARKINGS, OR SIGNALS THAT CONFLICT WITH THE TEMPORARY TRAFFIC CONTROL.
3. NO DIRECT PAYMENT WILL BE MADE FOR RELOCATING, COVERING, UNCOVERING, OR REMOVING OF TCP SIGNS.
4. REMOVE AND/OR MODIFY EXISTING PAVEMENT MARKINGS AS NEEDED.
5. LANE WIDTHS SHALL BE A MINIMUM OF 10'.
6. CONTRACTOR SHALL MAKE EVERY EFFORT TO MAINTAIN ACCESS TO BUSINESSES DURING CONSTRUCTION. CLOSURE OF SIDE STREETS AND COMMERCIAL ENTRANCES SHALL BE MINIMIZED.
7. CHANNELIZER LENGTHS MAY BE REDUCED AT INTERSECTIONS OR OTHER SPOTS TO DISCOURAGE TRAFFIC ENCROACHMENT.
8. "ROAD WORK AHEAD" SIGN IS NOT NEEDED IF SHOULDER WORK IS LOCATED WITHIN LIMITS OF AN ACTIVITY AREA WHERE ANOTHER "ROAD WORK AHEAD"SIGN IS ALREADY USED.
9. PAVEMENT EDGE TREATMENT SHALL BE PLACED AT THE CONTRACTOR'S EXPENSE WHENEVER REQUIRED BY STANDARD PLAN 619.10J.

TRAFFIC CONTROL LEGEND

- SIGN (SINGLE SIDED)
- CHANNELIZERS (TRIMLINE)
- WORK AREA
- CHANGEABLE MESSAGE SIGN

SPEED	SIGN SPACING (ft.)		TAPER LENGTH (ft.)		OPTIONAL	CHANNELIZER SPACING (ft.)	
Permanent Posted (mph)	Undivided (S)	Divided (S)	Shoulder (1) (T1)	Lane (2) (T2)	BUFFER LENGTH (ft.) (B)	Tapers	Buffer/ Work Areas
40-45	350	500	150	540	360	40	80

1. Shoulder taper length based on 10 ft. (standard shoulder width) offset. 2. Lane taper length based on 12 ft. (standard lane width) offset.

TRAFFIC CONTROL PLAN
SHEET 2 OF 19

BRYAN SCOT GREGORY NUMBER PE-2006019659
PROFESSIONAL ENGINEER
STATE OF MISSOURI
THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED 3/1/2024
ROUTE 50 | STATE MO
DISTRICT CD | SHEET NO. 34
COUNTY OSAGE
JOB NO. J5P3574
CONTRACT ID.
PROJECT NO.
BRIDGE NO.

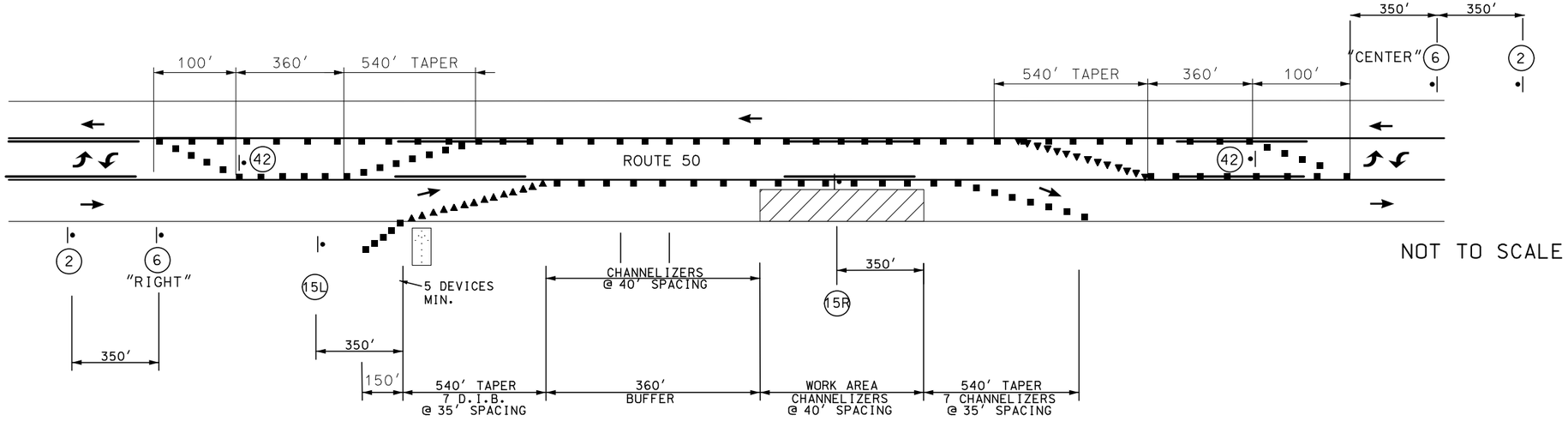
DESCRIPTION | DATE

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

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

Bartlett & West
601 MONROE ST. SUITE 201 - JEFFERSON CITY, MO 65101
PHONE 573-634-3181
CERTIFICATE OF AUTHORITY NO. 000167 - ENGINEERING
WWW.BARTLETTWEST.COM

STATIONARY LANE CLOSURE WITH A TWO-WAY LEFT TURN LANE



NOT TO SCALE

W020-1

(2)

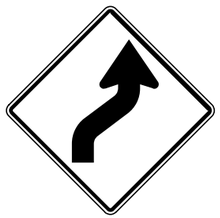
W020-6a

(6)

CENTER
OR
LEFT

W01-4L

(15L)



W01-4R

(15R)

R4-7a

(42)

TRAFFIC CONTROL LEGEND

- SIGN (SINGLE SIDED)
- CHANNELIZERS (TRIMLINE)
- WORK AREA
- DIRECTIONAL INDICATOR BARRICADE
- FLASHING ARROW PANEL
- CHANGEABLE MESSAGE SIGN

NOTES:

1. SIGN SPACINGS MAY BE ADJUSTED AS NECESSARY TO MEET FIELD CONDITIONS.
2. THE CONTRACTOR IS RESPONSIBLE FOR COMPLETELY COVERING OR REMOVING ALL EXISTING SIGNING, PAVEMENT MARKINGS, OR SIGNALS THAT CONFLICT WITH THE TEMPORARY TRAFFIC CONTROL.
3. NO DIRECT PAYMENT WILL BE MADE FOR RELOCATING, COVERING, UNCOVERING, OR REMOVING OF TCP SIGNS.
4. LANE WIDTHS SHALL BE A MINIMUM OF 10'.
5. THE CONTRACTOR SHALL MAINTAIN ACCESS TO ENTRANCES.
6. CHANNELIZER LENGTHS MAY BE REDUCED AT INTERSECTIONS OR OTHER SPOTS TO DISCOURAGE TRAFFIC ENCROACHMENT.
7. PAVEMENT EDGE TREATMENT SHALL BE PLACED AT THE CONTRACTOR'S EXPENSE WHENEVER REQUIRED BY STANDARD PLAN 619.10J.

TRAFFIC CONTROL PLAN
SHEET 3 OF 19

STATE OF MISSOURI
BRYAN SCOT GREGORY NUMBER PE-2006019659
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED 3/1/2024

ROUTE	STATE
50	MO
DISTRICT	SHEET NO.
CD	35

COUNTY: OSAGE
JOB NO.: J5P3574
CONTRACT ID.:
PROJECT NO.:
BRIDGE NO.:

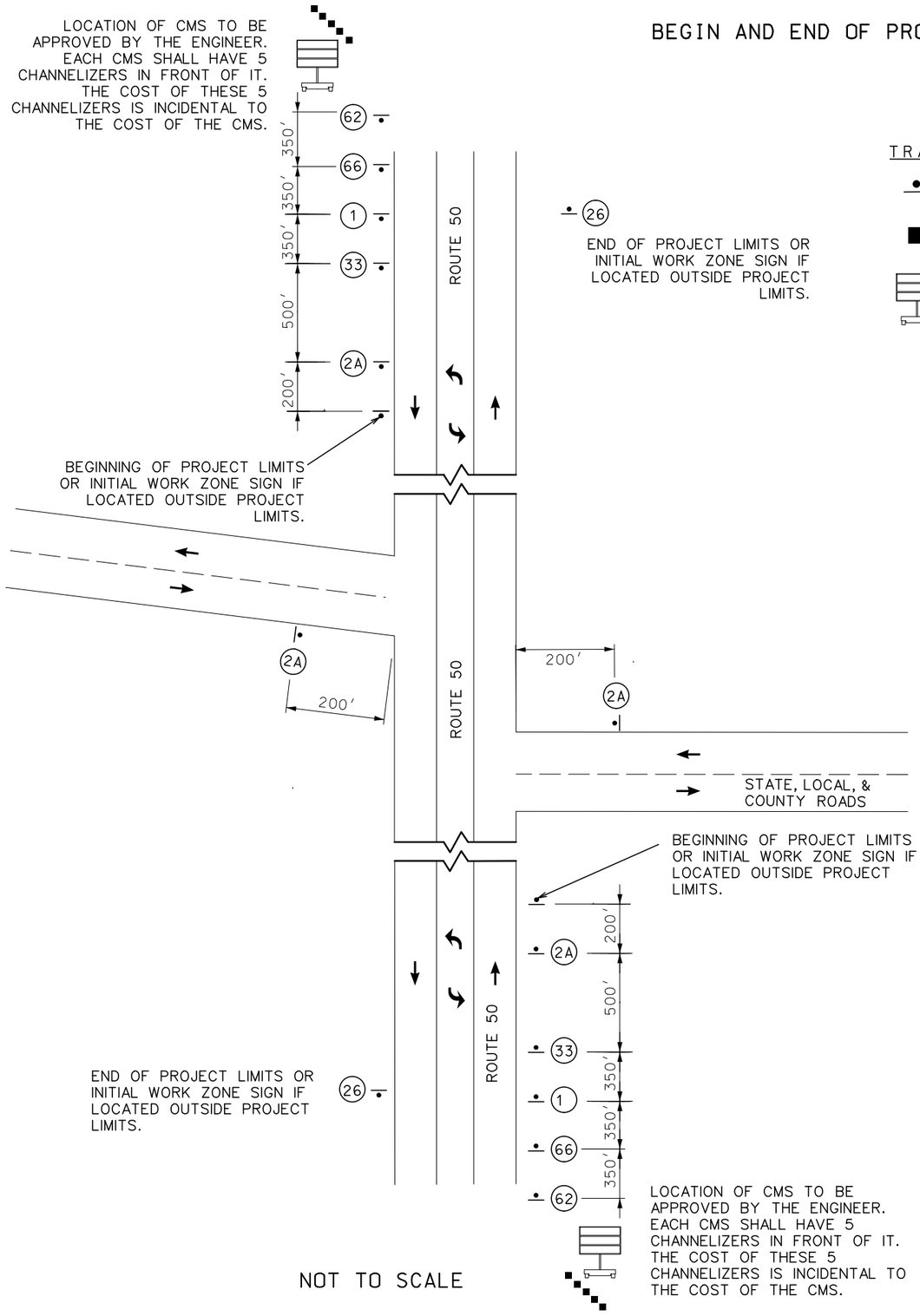
DESCRIPTION	DATE

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

Bartlett & West
601 MONROE ST. SUITE 201 - JEFFERSON CITY, MO 65101
PHONE 573-634-3181
CERTIFICATE OF AUTHORITY NO. 000167 - ENGINEERING
WWW.BARTLETTWEST.COM

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

BEGIN AND END OF PROJECT SIGNING



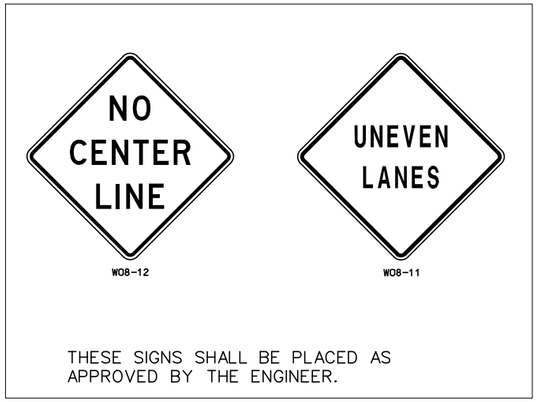
NOT TO SCALE

TRAFFIC CONTROL LEGEND

- SIGN (SINGLE SIDED)
- CHANNELIZERS (TRIMLINE)
- CHANGEABLE MESSAGE SIGN

NOTES:

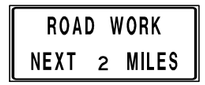
1. SPACINGS MAY BE ADJUSTED AS NECESSARY TO MEET FIELD CONDITIONS.
2. THE CONTRACTOR IS RESPONSIBLE FOR COMPLETELY COVERING OR REMOVING ALL EXISTING SIGNING, PAVEMENT MARKINGS, OR SIGNALS THAT CONFLICT WITH THE TEMPORARY TRAFFIC CONTROL.
3. NO DIRECT PAYMENT WILL BE MADE FOR RELOCATING, COVERING, UNCOVERING, OR REMOVING OF TCP SIGNS.
4. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAKING ADJUSTMENTS ACCORDING TO FIELD CONDITIONS. WHERE TRAFFIC BACKUPS OCCUR OR ARE EXPECTED BEYOND THE ADVANCE WARNING AREA, THE CONTRACTOR SHALL BE RESPONSIBLE FOR INSTALLING ADDITIONAL SIGNING.
5. LONG TERM RUMBLE STRIP LOCATIONS TO BE APPROVED BY THE ENGINEER.



THESE SIGNS SHALL BE PLACED AS APPROVED BY THE ENGINEER.

CONST-7-48

66



G020-1

1

CONST-5-48

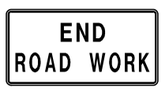
62

W020-1

2A

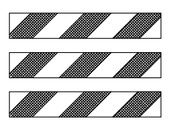
CONST-8

33



G020-2

26



(AWRS) ADVANCED WARNING RAIL SYSTEM

NOTES:

SIGN (2A) WITH AWRS MUST BE GROUND OR SKID MOUNTED

TRAFFIC CONTROL PLAN
SHEET 4 OF 19

STATE OF MISSOURI
BRYAN SCOT GREGORY
NUMBER PE-2006019659
PROFESSIONAL ENGINEER
THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

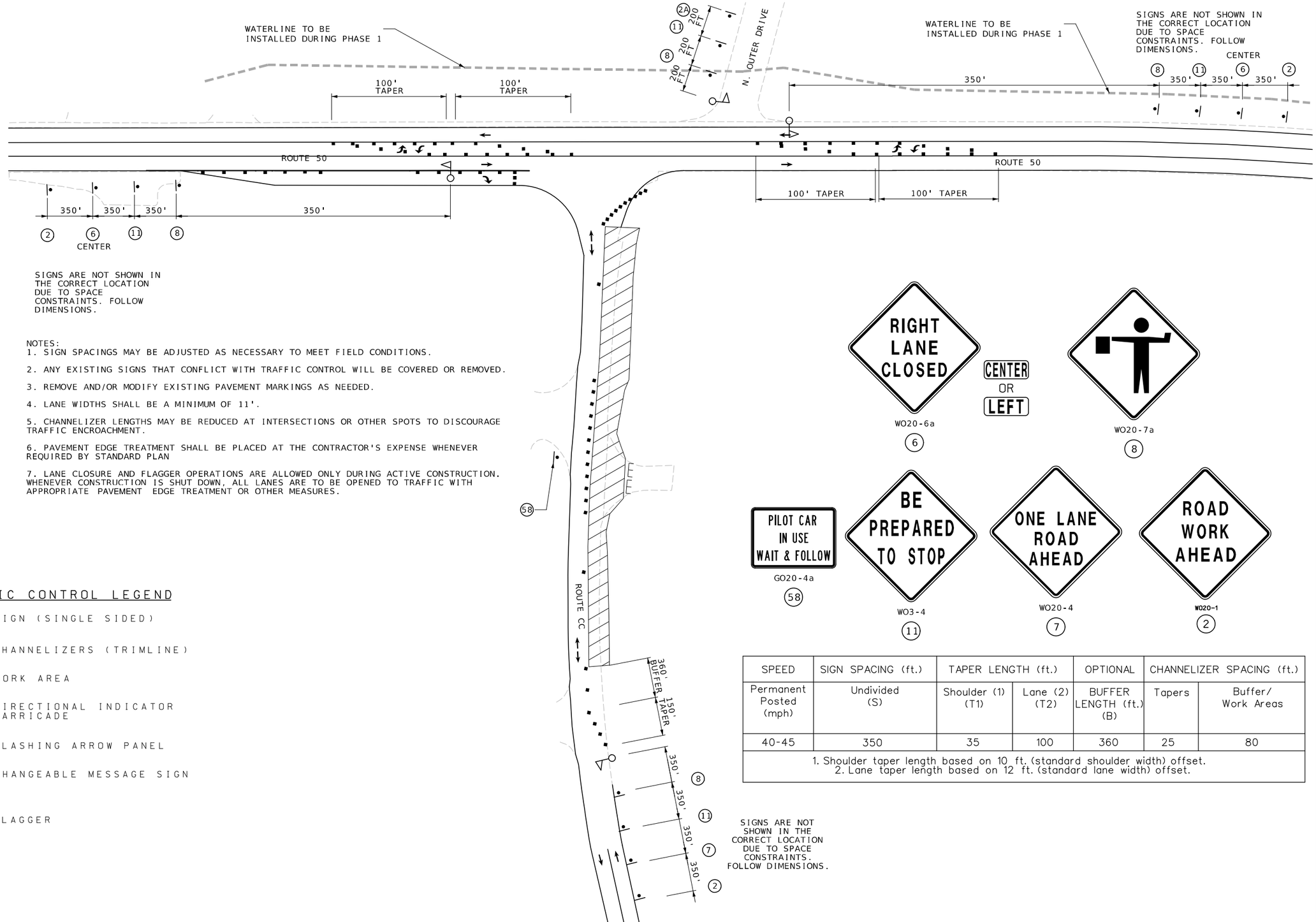
IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

DATE PREPARED	3/1/2024
ROUTE	STATE
50	MO
DISTRICT	SHEET NO.
CD	36
COUNTY	OSAGE
JOB NO.	J5P3574
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)

Bartlett & West
601 MONROE ST. SUITE 201 - JEFFERSON CITY, MO 65101
PHONE 573-634-3181
CERTIFICATE OF AUTHORITY NO. 000167 - ENGINEERING
WWW.BARTLETTWEST.COM



NOTES:
1. SIGN SPACINGS MAY BE ADJUSTED AS NECESSARY TO MEET FIELD CONDITIONS.

2. ANY EXISTING SIGNS THAT CONFLICT WITH TRAFFIC CONTROL WILL BE COVERED OR REMOVED.

3. REMOVE AND/OR MODIFY EXISTING PAVEMENT MARKINGS AS NEEDED.

4. LANE WIDTHS SHALL BE A MINIMUM OF 11'.

5. CHANNELIZER LENGTHS MAY BE REDUCED AT INTERSECTIONS OR OTHER SPOTS TO DISCOURAGE TRAFFIC ENCROACHMENT.

6. PAVEMENT EDGE TREATMENT SHALL BE PLACED AT THE CONTRACTOR'S EXPENSE WHENEVER REQUIRED BY STANDARD PLAN

7. LANE CLOSURE AND FLAGGER OPERATIONS ARE ALLOWED ONLY DURING ACTIVE CONSTRUCTION. WHENEVER CONSTRUCTION IS SHUT DOWN, ALL LANES ARE TO BE OPENED TO TRAFFIC WITH APPROPRIATE PAVEMENT EDGE TREATMENT OR OTHER MEASURES.

WO20-6a
6

WO20-7a
8

GO20-4a
58

WO3-4
11

WO20-4
7

WO20-1
2

SPEED	SIGN SPACING (ft.)	TAPER LENGTH (ft.)		OPTIONAL	CHANNELIZER SPACING (ft.)	
Permanent Posted (mph)	Undivided (S)	Shoulder (1) (T1)	Lane (2) (T2)	BUFFER LENGTH (ft.) (B)	Tapers	Buffer/ Work Areas
40-45	350	35	100	360	25	80
1. Shoulder taper length based on 10 ft. (standard shoulder width) offset. 2. Lane taper length based on 12 ft. (standard lane width) offset.						

TRAFFIC CONTROL LEGEND

- SIGN (SINGLE SIDED)
- CHANNELIZERS (TRIMLINE)
- WORK AREA
- DIRECTIONAL INDICATOR BARRICADE
- FLASHING ARROW PANEL
- CHANGEABLE MESSAGE SIGN
- FLAGGER

NOT TO SCALE

TRAFFIC CONTROL PLAN
PHASE 1A
SHEET 5 OF 19

STATE OF MISSOURI
BRYAN SCOT GREGORY
NUMBER PE-2006019659
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED 3/28/2024

ROUTE	STATE
50	MO
DISTRICT	SHEET NO.
CD	37

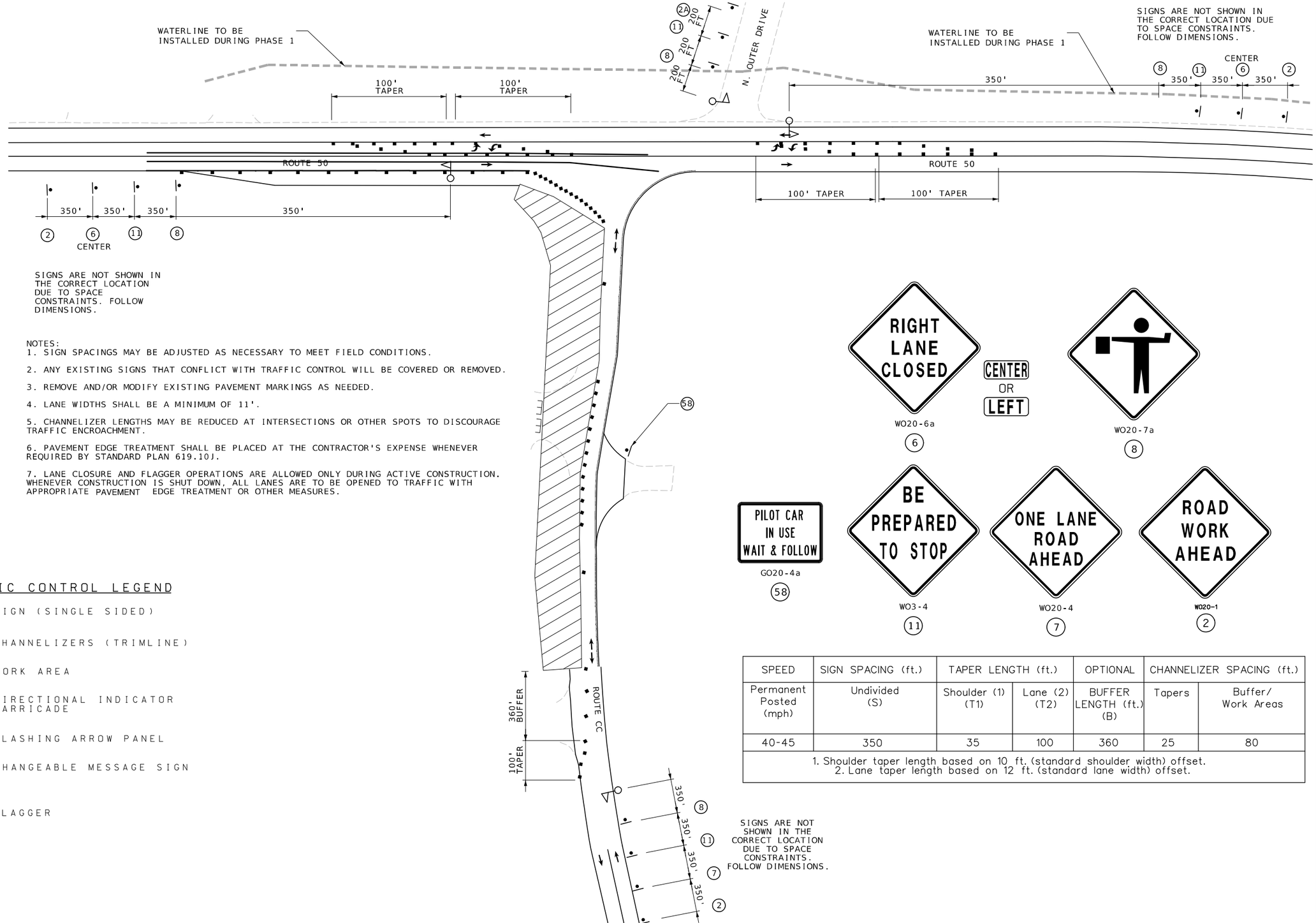
COUNTY: OSAGE
JOB NO.: J5P3574
CONTRACT ID.:
PROJECT NO.:
BRIDGE NO.:

DESCRIPTION	DATE

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

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

Bartlett & West
601 MONROE ST. SUITE 201 - JEFFERSON CITY, MO 65101
PHONE 573-634-3181
CERTIFICATE OF AUTHORITY NO. 000167 - ENGINEERING
WWW.BARTLETTWEST.COM



NOTES:
1. SIGN SPACINGS MAY BE ADJUSTED AS NECESSARY TO MEET FIELD CONDITIONS.

2. ANY EXISTING SIGNS THAT CONFLICT WITH TRAFFIC CONTROL WILL BE COVERED OR REMOVED.

3. REMOVE AND/OR MODIFY EXISTING PAVEMENT MARKINGS AS NEEDED.

4. LANE WIDTHS SHALL BE A MINIMUM OF 11'.

5. CHANNELIZER LENGTHS MAY BE REDUCED AT INTERSECTIONS OR OTHER SPOTS TO DISCOURAGE TRAFFIC ENCROACHMENT.

6. PAVEMENT EDGE TREATMENT SHALL BE PLACED AT THE CONTRACTOR'S EXPENSE WHENEVER REQUIRED BY STANDARD PLAN 619.10J.

7. LANE CLOSURE AND FLAGGER OPERATIONS ARE ALLOWED ONLY DURING ACTIVE CONSTRUCTION. WHENEVER CONSTRUCTION IS SHUT DOWN, ALL LANES ARE TO BE OPENED TO TRAFFIC WITH APPROPRIATE PAVEMENT EDGE TREATMENT OR OTHER MEASURES.

TRAFFIC CONTROL LEGEND

- SIGN (SINGLE SIDED)
- CHANNELIZERS (TRIMLINE)
- WORK AREA
- DIRECTIONAL INDICATOR BARRICADE
- FLASHING ARROW PANEL
- CHANGEABLE MESSAGE SIGN
- FLAGGER

SPEED	SIGN SPACING (ft.)	TAPER LENGTH (ft.)		OPTIONAL	CHANNELIZER SPACING (ft.)	
Permanent Posted (mph)	Undivided (S)	Shoulder (1) (T1)	Lane (2) (T2)	BUFFER LENGTH (ft.) (B)	Tapers	Buffer/ Work Areas
40-45	350	35	100	360	25	80
1. Shoulder taper length based on 10 ft. (standard shoulder width) offset. 2. Lane taper length based on 12 ft. (standard lane width) offset.						

NOT TO SCALE

TRAFFIC CONTROL PLAN
PHASE 1B
SHEET 6 OF 19

STATE OF MISSOURI
BRYAN SCOT GREGORY NUMBER PE-2006019659
PROFESSIONAL ENGINEER
THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

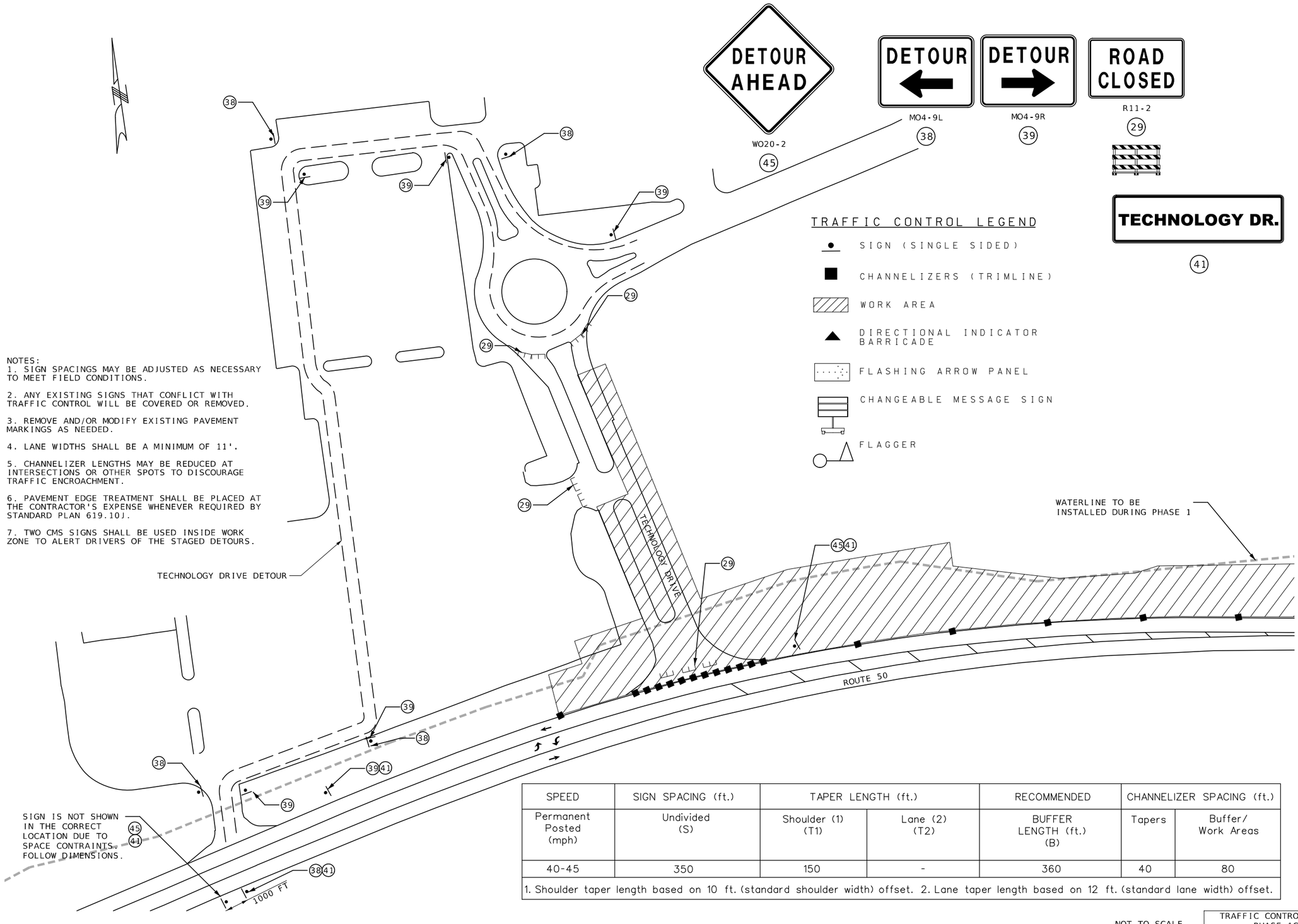
DATE PREPARED 3/28/2024
ROUTE 50 | STATE MO
DISTRICT CD | SHEET NO. 38
COUNTY OSAGE
JOB NO. J5P3574
CONTRACT ID.
PROJECT NO.
BRIDGE NO.

DESCRIPTION | DATE

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

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

Bartlett & West
601 MONROE ST. SUITE 201 - JEFFERSON CITY, MO 65101
PHONE 573-634-3181
CERTIFICATE OF AUTHORITY NO. 000167 - ENGINEERING
WWW.BARTLETTWEST.COM



NOTES:
1. SIGN SPACINGS MAY BE ADJUSTED AS NECESSARY TO MEET FIELD CONDITIONS.

2. ANY EXISTING SIGNS THAT CONFLICT WITH TRAFFIC CONTROL WILL BE COVERED OR REMOVED.

3. REMOVE AND/OR MODIFY EXISTING PAVEMENT MARKINGS AS NEEDED.

4. LANE WIDTHS SHALL BE A MINIMUM OF 11'.

5. CHANNELIZER LENGTHS MAY BE REDUCED AT INTERSECTIONS OR OTHER SPOTS TO DISCOURAGE TRAFFIC ENCROACHMENT.

6. PAVEMENT EDGE TREATMENT SHALL BE PLACED AT THE CONTRACTOR'S EXPENSE WHENEVER REQUIRED BY STANDARD PLAN 619.10J.

7. TWO CMS SIGNS SHALL BE USED INSIDE WORK ZONE TO ALERT DRIVERS OF THE STAGED DETOURS.

SPEED	SIGN SPACING (ft.)	TAPER LENGTH (ft.)		RECOMMENDED	CHANNELIZER SPACING (ft.)	
Permanent Posted (mph)	Undivided (S)	Shoulder (1) (T1)	Lane (2) (T2)	BUFFER LENGTH (ft.) (B)	Tapers	Buffer/ Work Areas
40-45	350	150	-	360	40	80
1. Shoulder taper length based on 10 ft. (standard shoulder width) offset. 2. Lane taper length based on 12 ft. (standard lane width) offset.						

NOT TO SCALE

TRAFFIC CONTROL PLAN
PHASE 1C
SHEET 7 OF 19

STATE OF MISSOURI
BRYAN SCOT GREGORY
NUMBER PE-2006019659
PROFESSIONAL ENGINEER
THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED: 3/28/2024
ROUTE: 50 | STATE: MO
DISTRICT: CD | SHEET NO.: 39
COUNTY: OSAGE
JOB NO.: J5P3574
CONTRACT ID.:
PROJECT NO.:
BRIDGE NO.:

DESCRIPTION | DATE

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

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

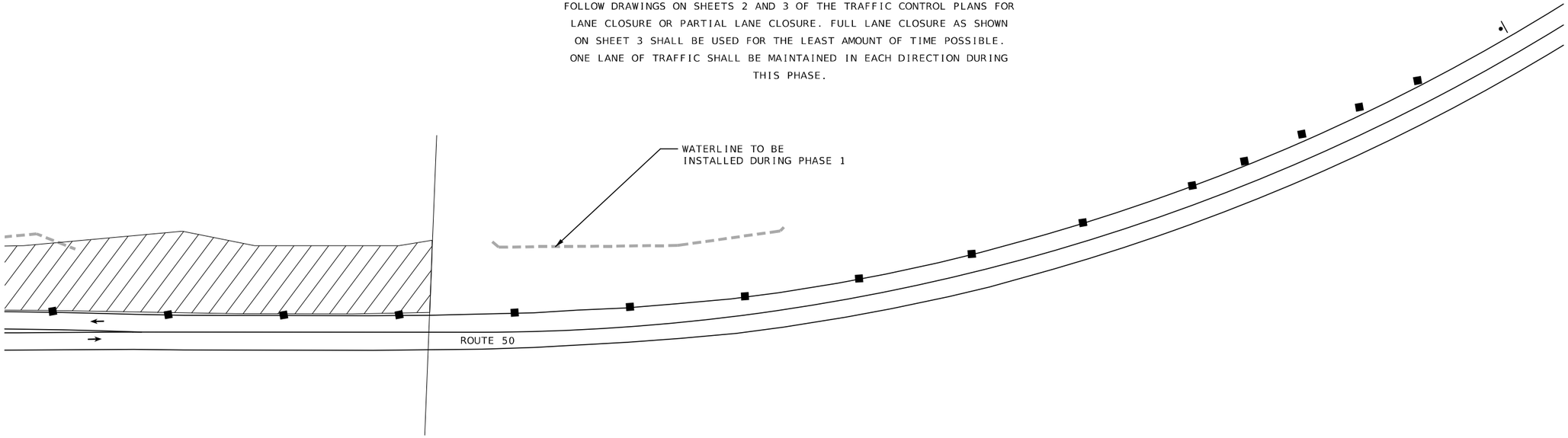
Bartlett & West
601 MONROE ST. SUITE 201 - JEFFERSON CITY, MO 65101
PHONE 573-634-3181
CERTIFICATE OF AUTHORITY NO. 000167 - ENGINEERING
WWW.BARTLETTWEST.COM

TRAFFIC CONTROL LEGEND

- SIGN (SINGLE SIDED)
- CHANNELIZERS (TRIMLINE)
- WORK AREA
- DIRECTIONAL INDICATOR BARRICADE
- FLASHING ARROW PANEL
- CHANGEABLE MESSAGE SIGN
- FLAGGER

NOTES:
1. SIGN SPACINGS MAY BE ADJUSTED AS NECESSARY TO MEET FIELD CONDITIONS.
2. ANY EXISTING SIGNS THAT CONFLICT WITH TRAFFIC CONTROL WILL BE COVERED OR REMOVED.
3. REMOVE AND/OR MODIFY EXISTING PAVEMENT MARKINGS AS NEEDED.
4. LANE WIDTHS SHALL BE A MINIMUM OF 11'.
5. CHANNELIZER LENGTHS MAY BE REDUCED AT INTERSECTIONS OR OTHER SPOTS TO DISCOURAGE TRAFFIC ENCROACHMENT.
6. PAVEMENT EDGE TREATMENT SHALL BE PLACED AT THE CONTRACTOR'S EXPENSE WHENEVER REQUIRED BY STANDARD PLAN 619.10J.

FOLLOW DRAWINGS ON SHEETS 2 AND 3 OF THE TRAFFIC CONTROL PLANS FOR LANE CLOSURE OR PARTIAL LANE CLOSURE. FULL LANE CLOSURE AS SHOWN ON SHEET 3 SHALL BE USED FOR THE LEAST AMOUNT OF TIME POSSIBLE. ONE LANE OF TRAFFIC SHALL BE MAINTAINED IN EACH DIRECTION DURING THIS PHASE.



SPEED	SIGN SPACING (ft.)	TAPER LENGTH (ft.)		RECOMMENDED	CHANNELIZER SPACING (ft.)	
Permanent Posted (mph)	Undivided (S)	Shoulder (1) (T1)	Lane (2) (T2)	BUFFER LENGTH (ft.) (B)	Tapers	Buffer/ Work Areas
40-45	350	150	-	360	40	80
1. Shoulder taper length based on 10 ft. (standard shoulder width) offset. 2. Lane taper length based on 12 ft. (standard lane width) offset.						

NOT TO SCALE

TRAFFIC CONTROL PLAN
PHASE 1C
SHEET 8 OF 19

STATE OF MISSOURI
BRYAN SCOT GREGORY
NUMBER PE-2006019659
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED 3/1/2024

ROUTE	STATE
50	MO
DISTRICT	SHEET NO.
CD	40

COUNTY: OSAGE
JOB NO.: J5P3574
CONTRACT ID.:
PROJECT NO.:
BRIDGE NO.:

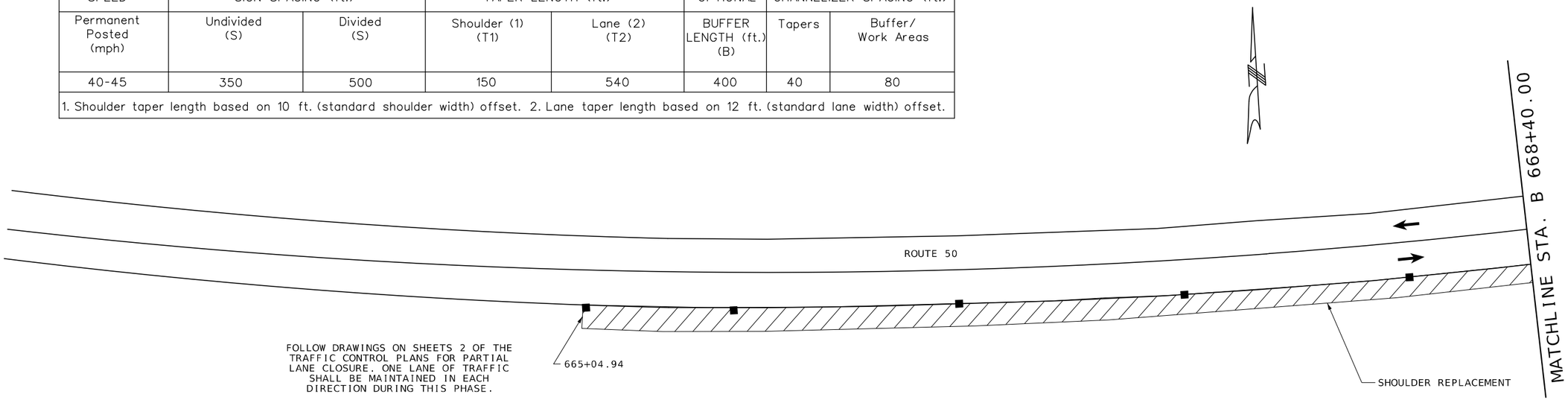
DESCRIPTION	DATE

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

Bartlett & West
601 MONROE ST. SUITE 201 - JEFFERSON CITY, MO 65101
PHONE 573-634-3181
CERTIFICATE OF AUTHORITY NO. 000167 - ENGINEERING
WWW.BARTLETTWEST.COM

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

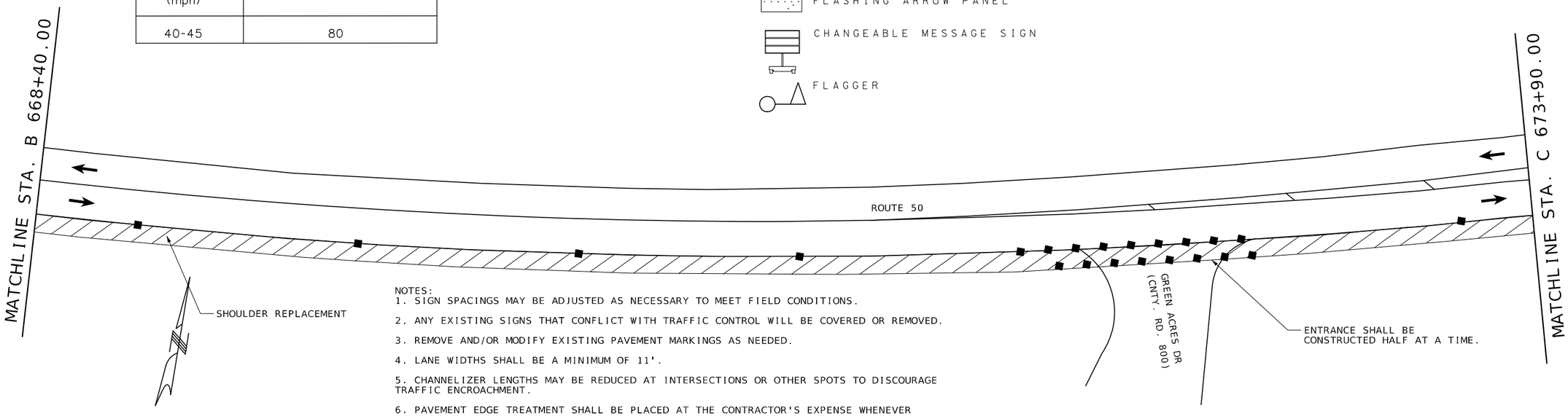
SPEED	SIGN SPACING (ft.)		TAPER LENGTH (ft.)		OPTIONAL	CHANNELIZER SPACING (ft.)	
Permanent Posted (mph)	Undivided (S)	Divided (S)	Shoulder (1) (T1)	Lane (2) (T2)	BUFFER LENGTH (ft.) (B)	Tapers	Buffer/ Work Areas
40-45	350	500	150	540	400	40	80
1. Shoulder taper length based on 10 ft. (standard shoulder width) offset. 2. Lane taper length based on 12 ft. (standard lane width) offset.							



TRAFFIC CONTROL LEGEND

- SIGN (SINGLE SIDED)
- CHANNELIZERS (TRIMLINE)
- WORK AREA
- DIRECTIONAL INDICATOR BARRICADE
- FLASHING ARROW PANEL
- CHANGEABLE MESSAGE SIGN
- FLAGGER

SPEED	CHANNELIZER SPACING (ft.)
Permanent Posted (mph)	Buffer/ Work Areas
40-45	80



NOTES:
1. SIGN SPACINGS MAY BE ADJUSTED AS NECESSARY TO MEET FIELD CONDITIONS.
2. ANY EXISTING SIGNS THAT CONFLICT WITH TRAFFIC CONTROL WILL BE COVERED OR REMOVED.
3. REMOVE AND/OR MODIFY EXISTING PAVEMENT MARKINGS AS NEEDED.
4. LANE WIDTHS SHALL BE A MINIMUM OF 11'.
5. CHANNELIZER LENGTHS MAY BE REDUCED AT INTERSECTIONS OR OTHER SPOTS TO DISCOURAGE TRAFFIC ENCROACHMENT.
6. PAVEMENT EDGE TREATMENT SHALL BE PLACED AT THE CONTRACTOR'S EXPENSE WHENEVER REQUIRED BY STANDARD PLAN 619.10J.

NOT TO SCALE

TRAFFIC CONTROL PLAN
PHASE 2A
SHEET 9 OF 19

BRYAN SCOT GREGORY NUMBER PE-2006019659 PROFESSIONAL ENGINEER STATE OF MISSOURI

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED 3/1/2024

ROUTE 50 | STATE MO

DISTRICT CD | SHEET NO. 41

COUNTY OSAGE

JOB NO. J5P3574

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)

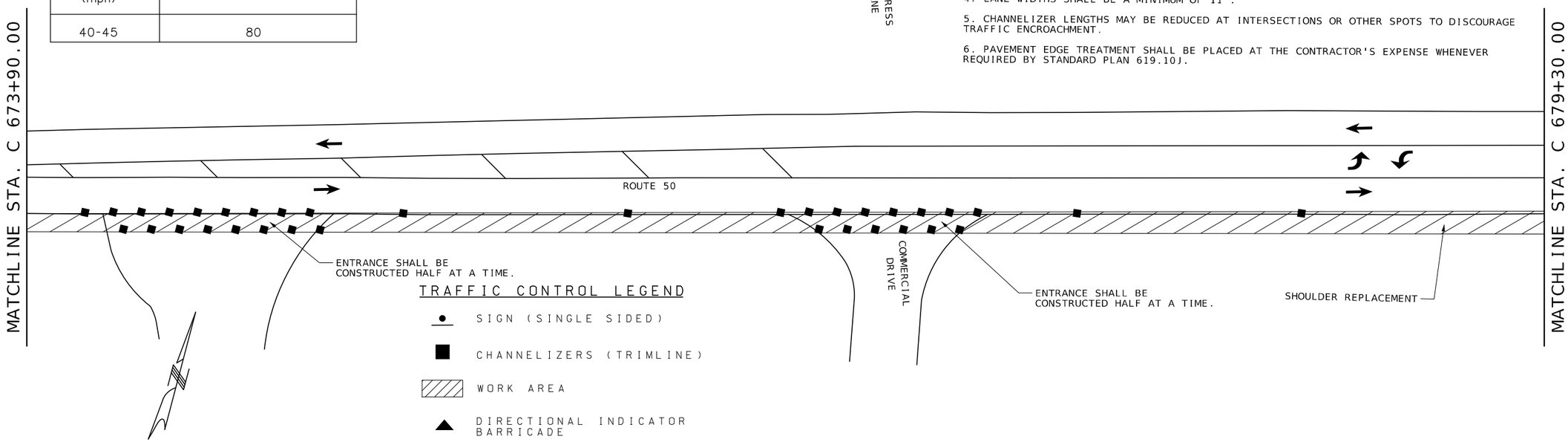
Bartlett & West
601 MONROE ST. SUITE 201 - JEFFERSON CITY, MO 65101
PHONE 573-634-3181
CERTIFICATE OF AUTHORITY NO. 000167 - ENGINEERING
WWW.BARTLETTWEST.COM

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

SPEED	CHANNELIZER SPACING (ft.)
Permanent Posted (mph)	Buffer/ Work Areas
40-45	80

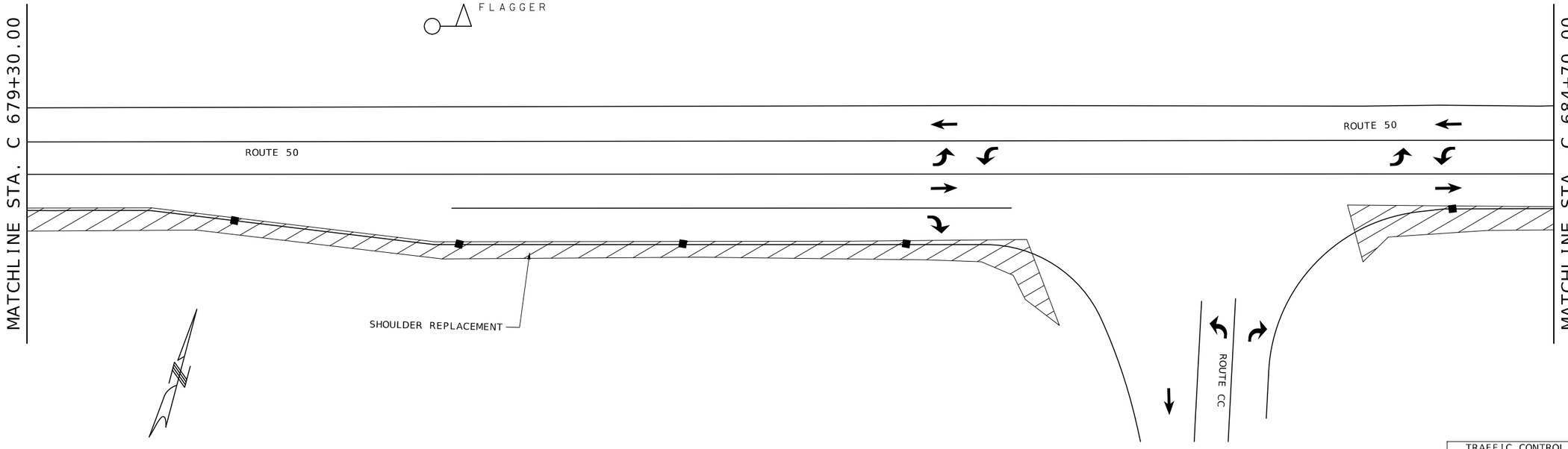
FOLLOW DRAWINGS ON SHEETS 2 OF THE TRAFFIC CONTROL PLANS FOR PARTIAL LANE CLOSURE. ONE LANE OF TRAFFIC SHALL BE MAINTAINED IN EACH DIRECTION DURING THIS PHASE.

NOTES:
1. SIGN SPACINGS MAY BE ADJUSTED AS NECESSARY TO MEET FIELD CONDITIONS.
2. ANY EXISTING SIGNS THAT CONFLICT WITH TRAFFIC CONTROL WILL BE COVERED OR REMOVED.
3. REMOVE AND/OR MODIFY EXISTING PAVEMENT MARKINGS AS NEEDED.
4. LANE WIDTHS SHALL BE A MINIMUM OF 11'.
5. CHANNELIZER LENGTHS MAY BE REDUCED AT INTERSECTIONS OR OTHER SPOTS TO DISCOURAGE TRAFFIC ENCROACHMENT.
6. PAVEMENT EDGE TREATMENT SHALL BE PLACED AT THE CONTRACTOR'S EXPENSE WHENEVER REQUIRED BY STANDARD PLAN 619.10J.



TRAFFIC CONTROL LEGEND

- SIGN (SINGLE SIDED)
- CHANNELIZERS (TRIMLINE)
- WORK AREA
- DIRECTIONAL INDICATOR BARRICADE
- FLASHING ARROW PANEL
- CHANGEABLE MESSAGE SIGN
- FLAGGER



NOT TO SCALE

TRAFFIC CONTROL PLAN
PHASE 2A
SHEET 10 OF 19

STATE OF MISSOURI
BRYAN SCOT GREGORY
NUMBER PE-2006019659
PROFESSIONAL ENGINEER
THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

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

DATE PREPARED: 3/1/2024
ROUTE: 50 | STATE: MO
DISTRICT: CD | SHEET NO.: 42
COUNTY: OSAGE
JOB NO.: J5P3574
CONTRACT ID.:
PROJECT NO.:
BRIDGE NO.:

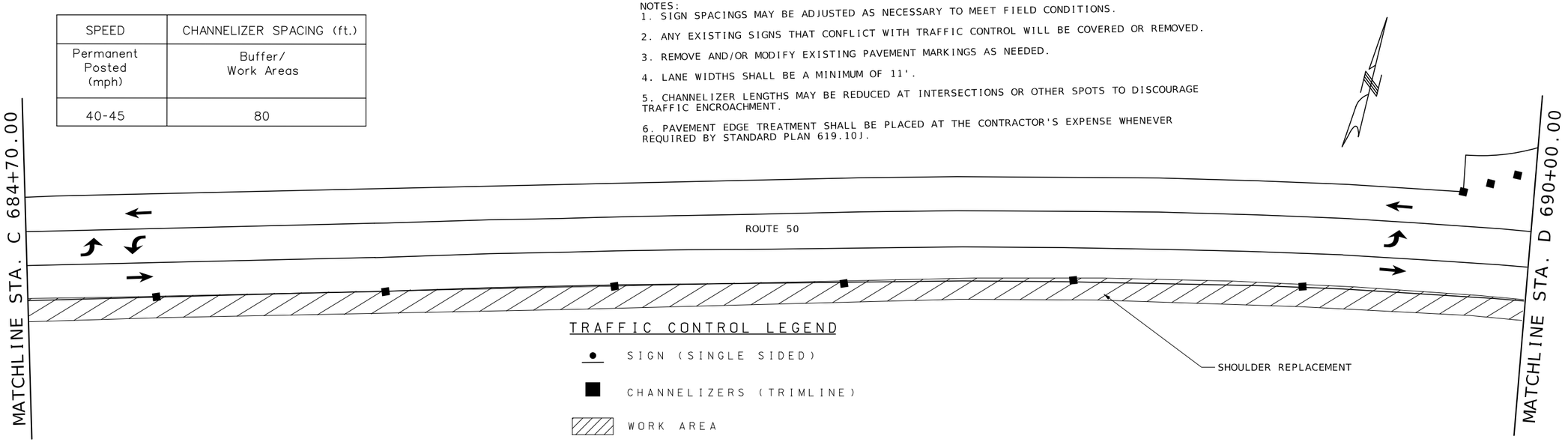
DESCRIPTION	DATE

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

Bartlett & West
601 MONROE ST. SUITE 201 - JEFFERSON CITY, MO 65101
PHONE 573-634-3181
CERTIFICATE OF AUTHORITY NO. 000167 - ENGINEERING
WWW.BARTLETTWEST.COM

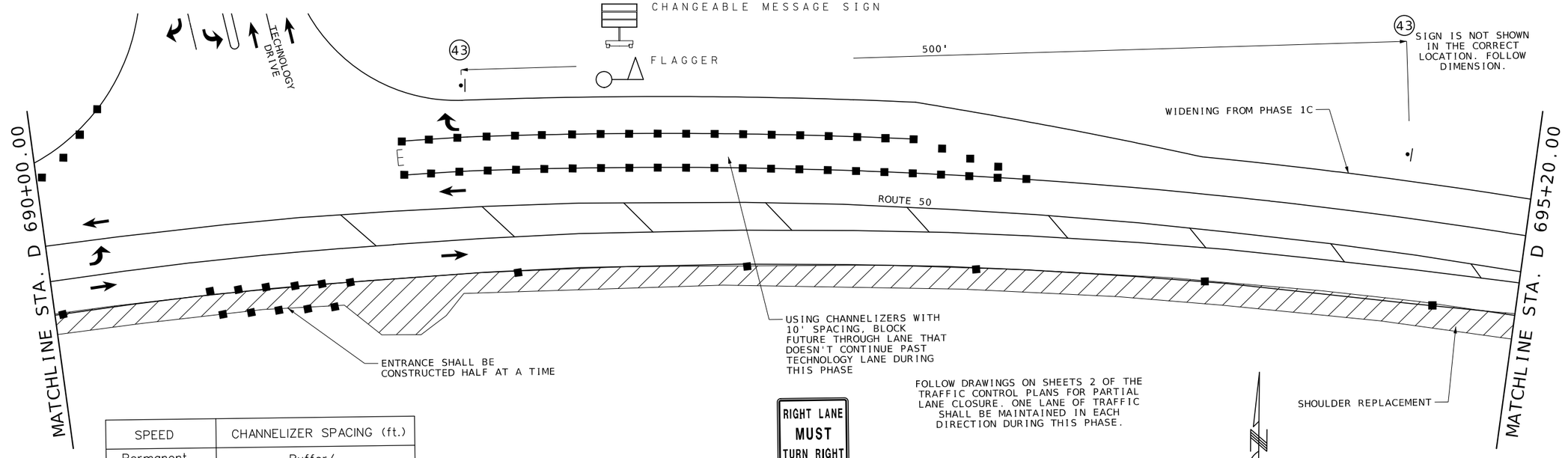
SPEED	CHANNELIZER SPACING (ft.)
Permanent Posted (mph)	Buffer/ Work Areas
40-45	80

NOTES:
1. SIGN SPACINGS MAY BE ADJUSTED AS NECESSARY TO MEET FIELD CONDITIONS.
2. ANY EXISTING SIGNS THAT CONFLICT WITH TRAFFIC CONTROL WILL BE COVERED OR REMOVED.
3. REMOVE AND/OR MODIFY EXISTING PAVEMENT MARKINGS AS NEEDED.
4. LANE WIDTHS SHALL BE A MINIMUM OF 11'.
5. CHANNELIZER LENGTHS MAY BE REDUCED AT INTERSECTIONS OR OTHER SPOTS TO DISCOURAGE TRAFFIC ENCROACHMENT.
6. PAVEMENT EDGE TREATMENT SHALL BE PLACED AT THE CONTRACTOR'S EXPENSE WHENEVER REQUIRED BY STANDARD PLAN 619.10J.



TRAFFIC CONTROL LEGEND

- SIGN (SINGLE SIDED)
- CHANNELIZERS (TRIMLINE)
- WORK AREA
- DIRECTIONAL INDICATOR BARRICADE
- FLASHING ARROW PANEL
- CHANGEABLE MESSAGE SIGN
- FLAGGER



SPEED	CHANNELIZER SPACING (ft.)
Permanent Posted (mph)	Buffer/ Work Areas
40-45	80

RIGHT LANE MUST TURN RIGHT
R3-7R
43

FOLLOW DRAWINGS ON SHEETS 2 OF THE TRAFFIC CONTROL PLANS FOR PARTIAL LANE CLOSURE. ONE LANE OF TRAFFIC SHALL BE MAINTAINED IN EACH DIRECTION DURING THIS PHASE.

NOT TO SCALE

TRAFFIC CONTROL PLAN
PHASE 2A
SHEET 11 OF 19

STATE OF MISSOURI
BRYAN SCOT GREGORY NUMBER PE-2006019659
PROFESSIONAL ENGINEER
THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED 3/28/2024
ROUTE 50 | STATE MO
DISTRICT CD | SHEET NO. 43
COUNTY OSAGE
JOB NO. J5P3574
CONTRACT ID.
PROJECT NO.
BRIDGE NO.

DESCRIPTION	DATE

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

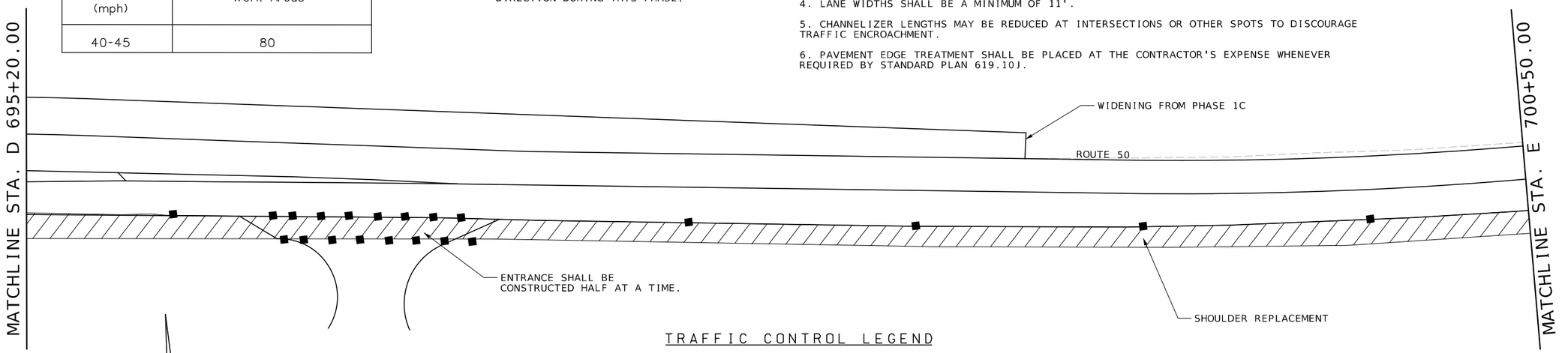
MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

Bartlett & West
601 MONROE ST. SUITE 201 - JEFFERSON CITY, MO 65101
PHONE 573-634-3181
CERTIFICATE OF AUTHORITY NO. 000167 - ENGINEERING
WWW.BARTLETTWEST.COM

SPEED	CHANNELIZER SPACING (ft.)
Permanent Posted (mph)	Buffer/ Work Areas
40-45	80

FOLLOW DRAWINGS ON SHEETS 2 OF THE TRAFFIC CONTROL PLANS FOR PARTIAL LANE CLOSURE. ONE LANE OF TRAFFIC SHALL BE MAINTAINED IN EACH DIRECTION DURING THIS PHASE.

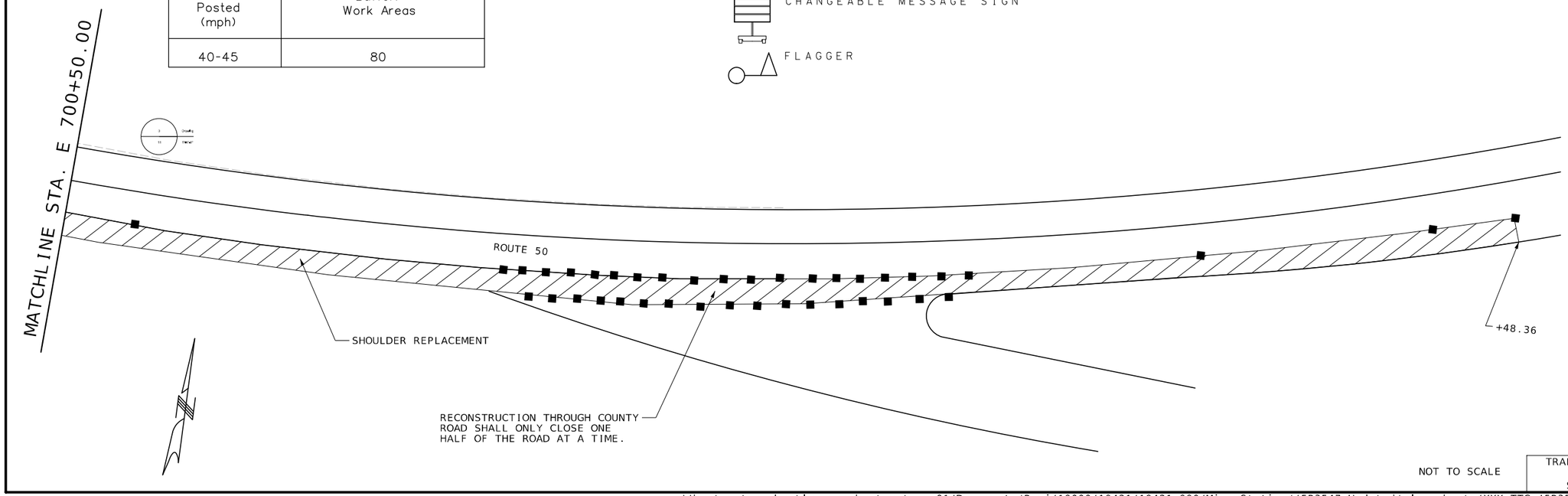
NOTES:
1. SIGN SPACINGS MAY BE ADJUSTED AS NECESSARY TO MEET FIELD CONDITIONS.
2. ANY EXISTING SIGNS THAT CONFLICT WITH TRAFFIC CONTROL WILL BE COVERED OR REMOVED.
3. REMOVE AND/OR MODIFY EXISTING PAVEMENT MARKINGS AS NEEDED.
4. LANE WIDTHS SHALL BE A MINIMUM OF 11'.
5. CHANNELIZER LENGTHS MAY BE REDUCED AT INTERSECTIONS OR OTHER SPOTS TO DISCOURAGE TRAFFIC ENCROACHMENT.
6. PAVEMENT EDGE TREATMENT SHALL BE PLACED AT THE CONTRACTOR'S EXPENSE WHENEVER REQUIRED BY STANDARD PLAN 619.10J.



TRAFFIC CONTROL LEGEND

- SIGN (SINGLE SIDED)
- CHANNELIZERS (TRIMLINE)
- WORK AREA
- DIRECTIONAL INDICATOR BARRICADE
- FLASHING ARROW PANEL
- CHANGEABLE MESSAGE SIGN
- FLAGGER

SPEED	CHANNELIZER SPACING (ft.)
Permanent Posted (mph)	Buffer/ Work Areas
40-45	80



NOT TO SCALE

TRAFFIC CONTROL PLAN
PHASE 2A
SHEET 12 OF 19

STATE OF MISSOURI
BRYAN SCOT GREGORY
NUMBER PE-2006019659
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED 3/1/2024

ROUTE	STATE
50	MO
DISTRICT	SHEET NO.
CD	44

COUNTY: OSAGE
JOB NO.: J5P3574
CONTRACT ID.:
PROJECT NO.:
BRIDGE NO.:

DESCRIPTION	DATE

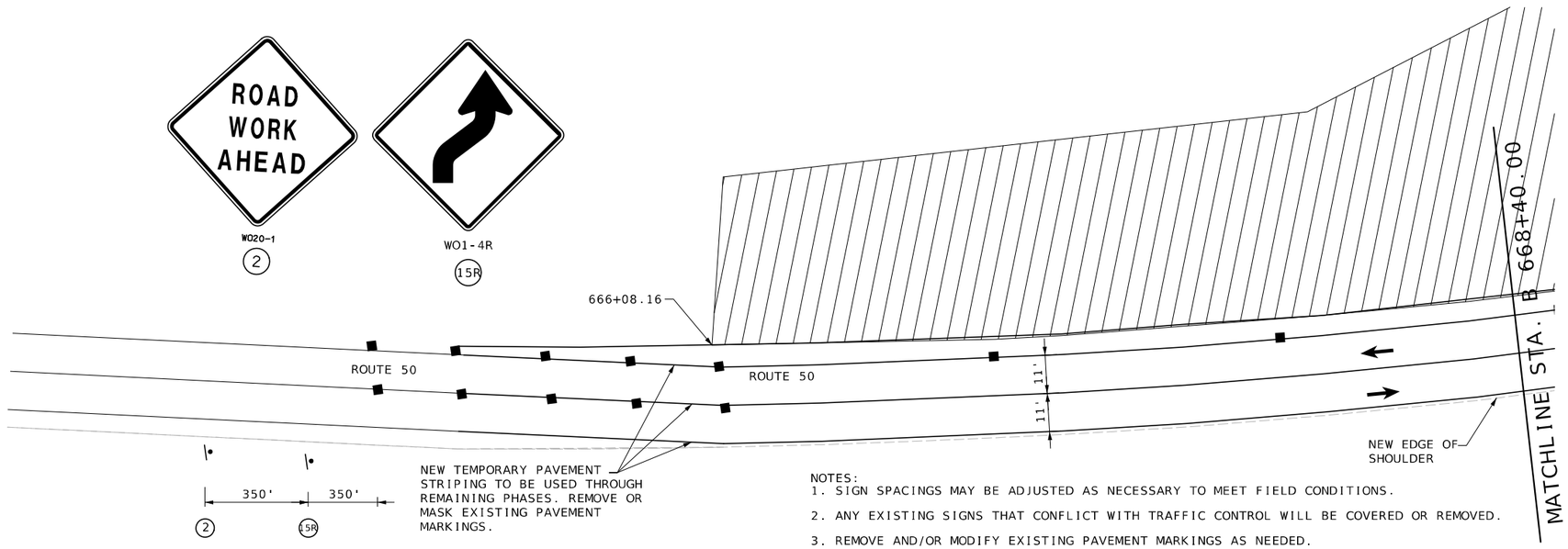
MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

Bartlett & West
601 MONROE ST. SUITE 201 - JEFFERSON CITY, MO 65101
PHONE 573-634-3181
CERTIFICATE OF AUTHORITY NO. 000167 - ENGINEERING
WWW.BARTLETTWEST.COM

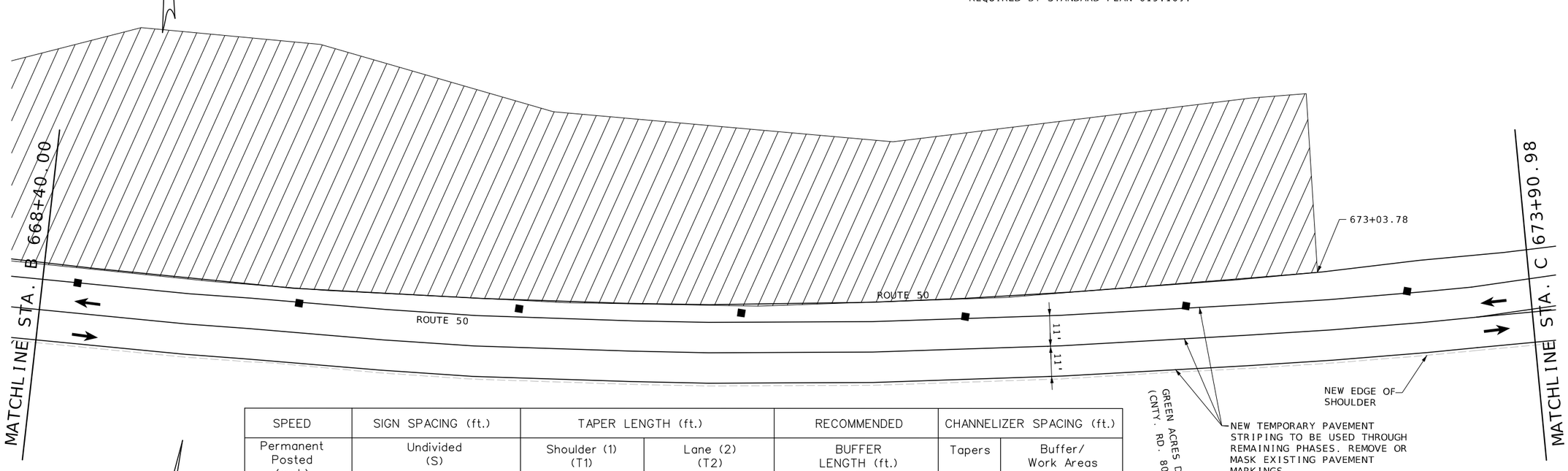
IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

TRAFFIC CONTROL LEGEND

- SIGN (SINGLE SIDED)
- CHANNELIZERS (TRIMLINE)
- WORK AREA
- DIRECTIONAL INDICATOR BARRICADE
- FLASHING ARROW PANEL
- CHANGEABLE MESSAGE SIGN
- FLAGGER



NOTES:
1. SIGN SPACINGS MAY BE ADJUSTED AS NECESSARY TO MEET FIELD CONDITIONS.
2. ANY EXISTING SIGNS THAT CONFLICT WITH TRAFFIC CONTROL WILL BE COVERED OR REMOVED.
3. REMOVE AND/OR MODIFY EXISTING PAVEMENT MARKINGS AS NEEDED.
4. LANE WIDTHS SHALL BE A MINIMUM OF 11'.
5. CHANNELIZER LENGTHS MAY BE REDUCED AT INTERSECTIONS OR OTHER SPOTS TO DISCOURAGE TRAFFIC ENCROACHMENT.
6. PAVEMENT EDGE TREATMENT SHALL BE PLACED AT THE CONTRACTOR'S EXPENSE WHENEVER REQUIRED BY STANDARD PLAN 619.10J.



SPEED	SIGN SPACING (ft.)	TAPER LENGTH (ft.)		RECOMMENDED	CHANNELIZER SPACING (ft.)	
Permanent Posted (mph)	Undivided (S)	Shoulder (1) (T1)	Lane (2) (T2)	BUFFER LENGTH (ft.) (B)	Tapers	Buffer/ Work Areas
40-45	350	150	360	360	40	80
1. Shoulder taper length based on 10 ft. (standard shoulder width) offset. 2. Lane taper length based on 12 ft. (standard lane width) offset.						

NOT TO SCALE

TRAFFIC CONTROL PLAN
PHASE 2B
SHEET 13 OF 19

STATE OF MISSOURI
BRYAN SCOT GREGORY
NUMBER PE-2006019659
PROFESSIONAL ENGINEER
THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

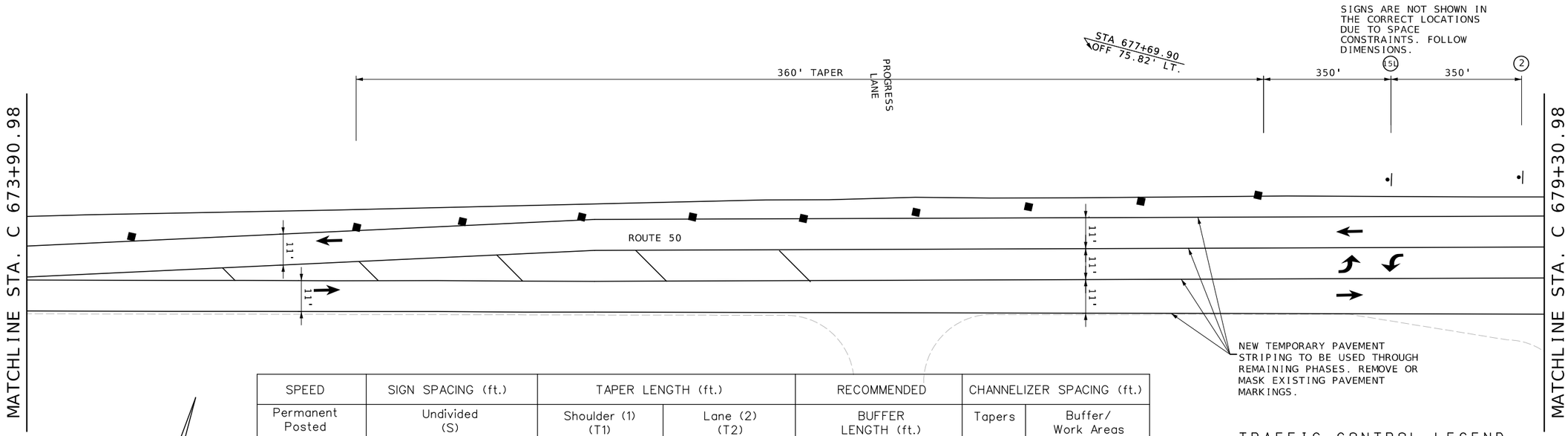
DATE PREPARED 3/1/2024
ROUTE 50 | STATE MO
DISTRICT CD | SHEET NO. 45
COUNTY OSAGE
JOB NO. J5P3574
CONTRACT ID.
PROJECT NO.
BRIDGE NO.

DESCRIPTION | DATE

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

Bartlett & West
601 MONROE ST. SUITE 201 - JEFFERSON CITY, MO 65101
PHONE 573-634-3181
CERTIFICATE OF AUTHORITY NO. 000167 - ENGINEERING
WWW.BARTLETTWEST.COM

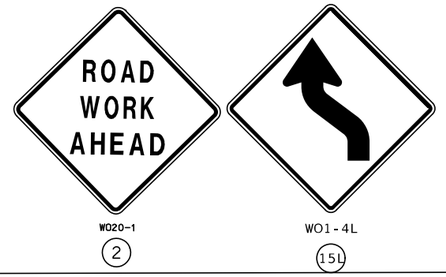
IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

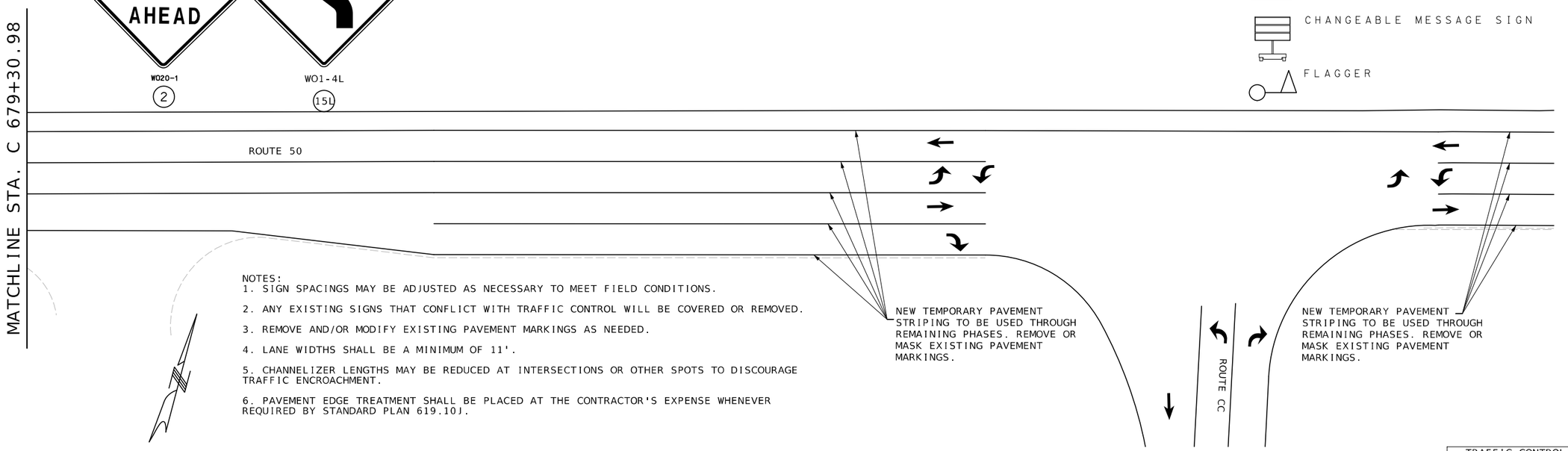


SPEED	SIGN SPACING (ft.)	TAPER LENGTH (ft.)		RECOMMENDED	CHANNELIZER SPACING (ft.)	
Permanent Posted (mph)	Undivided (S)	Shoulder (1) (T1)	Lane (2) (T2)	BUFFER LENGTH (ft.) (B)	Tapers	Buffer/ Work Areas
40-45	350	150	360	360	40	80
1. Shoulder taper length based on 10 ft. (standard shoulder width) offset. 2. Lane taper length based on 12 ft. (standard lane width) offset.						

TRAFFIC CONTROL LEGEND

- SIGN (SINGLE SIDED)
- CHANNELIZERS (TRIMLINE)
- WORK AREA
- DIRECTIONAL INDICATOR BARRICADE
- FLASHING ARROW PANEL
- CHANGEABLE MESSAGE SIGN
- FLAGGER





NOTES:
1. SIGN SPACINGS MAY BE ADJUSTED AS NECESSARY TO MEET FIELD CONDITIONS.
2. ANY EXISTING SIGNS THAT CONFLICT WITH TRAFFIC CONTROL WILL BE COVERED OR REMOVED.
3. REMOVE AND/OR MODIFY EXISTING PAVEMENT MARKINGS AS NEEDED.
4. LANE WIDTHS SHALL BE A MINIMUM OF 11'.
5. CHANNELIZER LENGTHS MAY BE REDUCED AT INTERSECTIONS OR OTHER SPOTS TO DISCOURAGE TRAFFIC ENCROACHMENT.
6. PAVEMENT EDGE TREATMENT SHALL BE PLACED AT THE CONTRACTOR'S EXPENSE WHENEVER REQUIRED BY STANDARD PLAN 619.10J.

NOT TO SCALE

TRAFFIC CONTROL PLAN
PHASE 2B
SHEET 14 OF 19

STATE OF MISSOURI
BRYAN SCOT GREGORY
NUMBER PE-2006019659
PROFESSIONAL ENGINEER
THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED 3/1/2024
ROUTE 50 | STATE MO
DISTRICT CD | SHEET NO. 46
COUNTY OSAGE
JOB NO. J5P3574
CONTRACT ID.
PROJECT NO.
BRIDGE NO.

DESCRIPTION | DATE

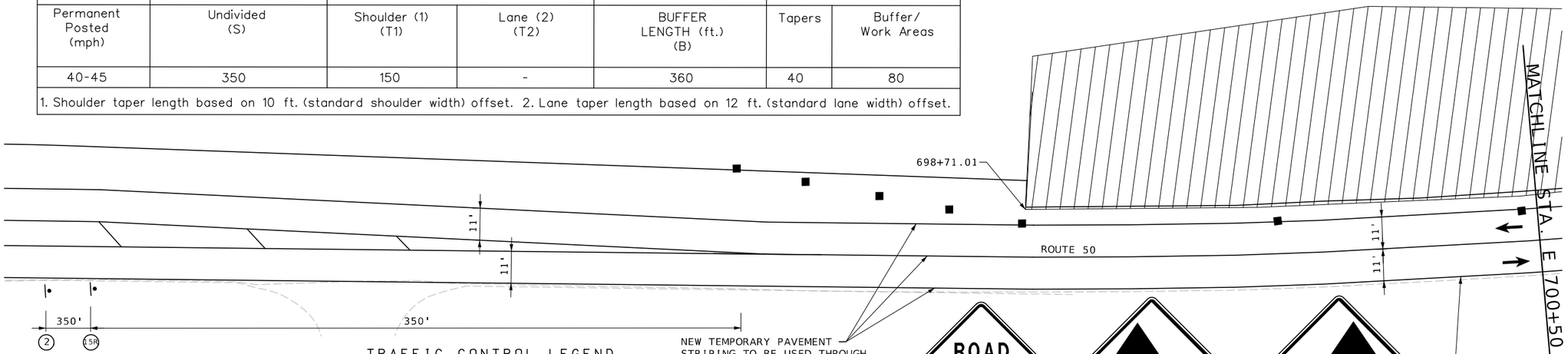
IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

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

Bartlett & West
601 MONROE ST. SUITE 201 - JEFFERSON CITY, MO 65101
PHONE 573-634-3181
CERTIFICATE OF AUTHORITY NO. 000167 - ENGINEERING
WWW.BARTLETTWEST.COM

SPEED	SIGN SPACING (ft.)	TAPER LENGTH (ft.)		RECOMMENDED	CHANNELIZER SPACING (ft.)	
Permanent Posted (mph)	Undivided (S)	Shoulder (1) (T1)	Lane (2) (T2)	BUFFER LENGTH (ft.) (B)	Tapers	Buffer/ Work Areas
40-45	350	150	-	360	40	80

1. Shoulder taper length based on 10 ft. (standard shoulder width) offset. 2. Lane taper length based on 12 ft. (standard lane width) offset.

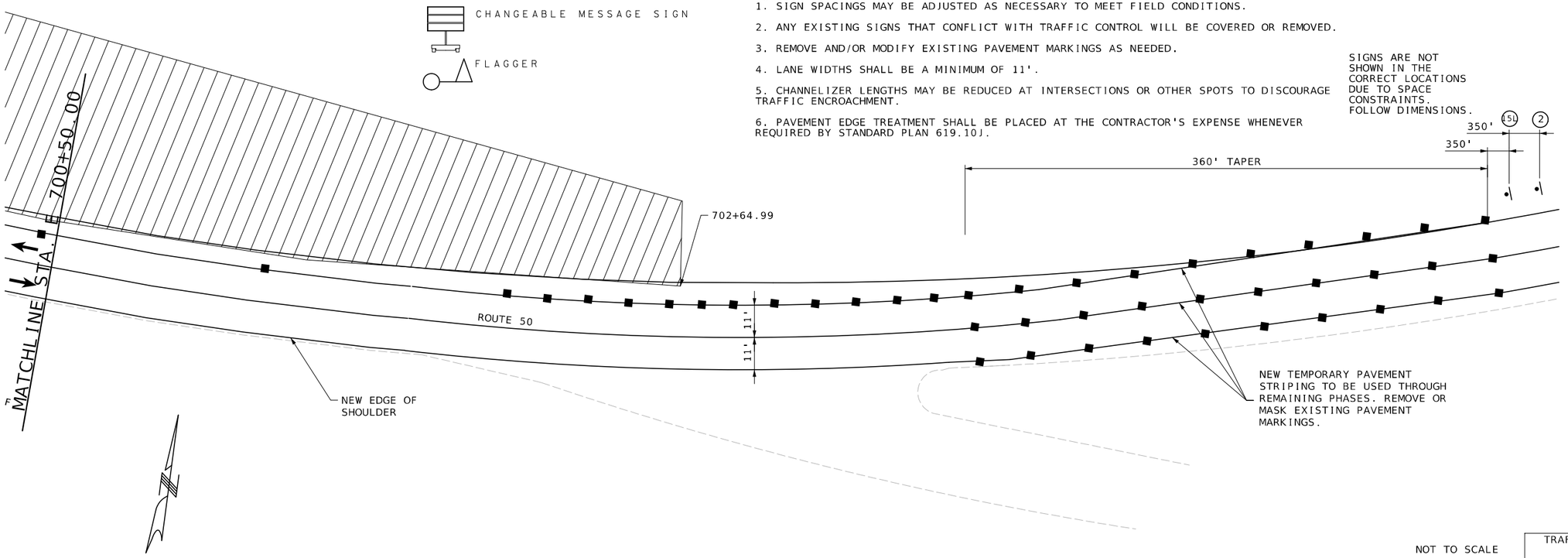


TRAFFIC CONTROL LEGEND

- SIGN (SINGLE SIDED)
- CHANNELIZERS (TRIMLINE)
- WORK AREA
- DIRECTIONAL INDICATOR BARRICADE
- FLASHING ARROW PANEL
- CHANGEABLE MESSAGE SIGN
- FLAGGER

NOTES:
1. SIGN SPACINGS MAY BE ADJUSTED AS NECESSARY TO MEET FIELD CONDITIONS.
2. ANY EXISTING SIGNS THAT CONFLICT WITH TRAFFIC CONTROL WILL BE COVERED OR REMOVED.
3. REMOVE AND/OR MODIFY EXISTING PAVEMENT MARKINGS AS NEEDED.
4. LANE WIDTHS SHALL BE A MINIMUM OF 11'.
5. CHANNELIZER LENGTHS MAY BE REDUCED AT INTERSECTIONS OR OTHER SPOTS TO DISCOURAGE TRAFFIC ENCROACHMENT.
6. PAVEMENT EDGE TREATMENT SHALL BE PLACED AT THE CONTRACTOR'S EXPENSE WHENEVER REQUIRED BY STANDARD PLAN 619.10J.

SIGNS ARE NOT SHOWN IN THE CORRECT LOCATIONS DUE TO SPACE CONSTRAINTS. FOLLOW DIMENSIONS.



NOT TO SCALE

TRAFFIC CONTROL PLAN
PHASE 2B
SHEET 15 OF 19

STATE OF MISSOURI
BRYAN SCOT GREGORY
NUMBER PE-2006019659
PROFESSIONAL ENGINEER
THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED 3/1/2024

ROUTE	STATE
50	MO
DISTRICT	SHEET NO.
CD	47

COUNTY: OSAGE
JOB NO.: J5P3574
CONTRACT ID.:
PROJECT NO.:
BRIDGE NO.:

DESCRIPTION	DATE

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

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

Bartlett & West
601 MONROE ST. SUITE 201 - JEFFERSON CITY, MO 65101
PHONE 573-634-3181
CERTIFICATE OF AUTHORITY NO. 000167 - ENGINEERING
WWW.BARTLETTWEST.COM

IF PROPERTY HAS MULTIPLE ENTRANCES, THE CONTRACTOR MAY CLOSE ONE ENTIRE ENTRANCE. IF PROPERTY HAS ONLY A SINGLE ENTRANCE, THEN THE ENTRANCE SHALL BE CONSTRUCTED HALF AT A TIME.

FOLLOW THE DRAWINGS ON SHEETS 2 AND 3 OF THE TRAFFIC CONTROL PLANS FOR LANE CLOSURE OR PARTIAL LANE CLOSURE. FULL LANE CLOSURE AS SHOWN ON SHEET 3 SHALL BE USED FOR THE LEAST AMOUNT OF TIME POSSIBLE. ONE LANE OF TRAFFIC SHALL BE MAINTAINED IN EACH DIRECTION DURING THIS PHASE.

NOTES:
1. SIGN SPACINGS MAY BE ADJUSTED AS NECESSARY TO MEET FIELD CONDITIONS.
2. ANY EXISTING SIGNS THAT CONFLICT WITH TRAFFIC CONTROL WILL BE COVERED OR REMOVED.
3. REMOVE AND/OR MODIFY EXISTING PAVEMENT MARKINGS AS NEEDED.
4. LANE WIDTHS SHALL BE A MINIMUM OF 11'.
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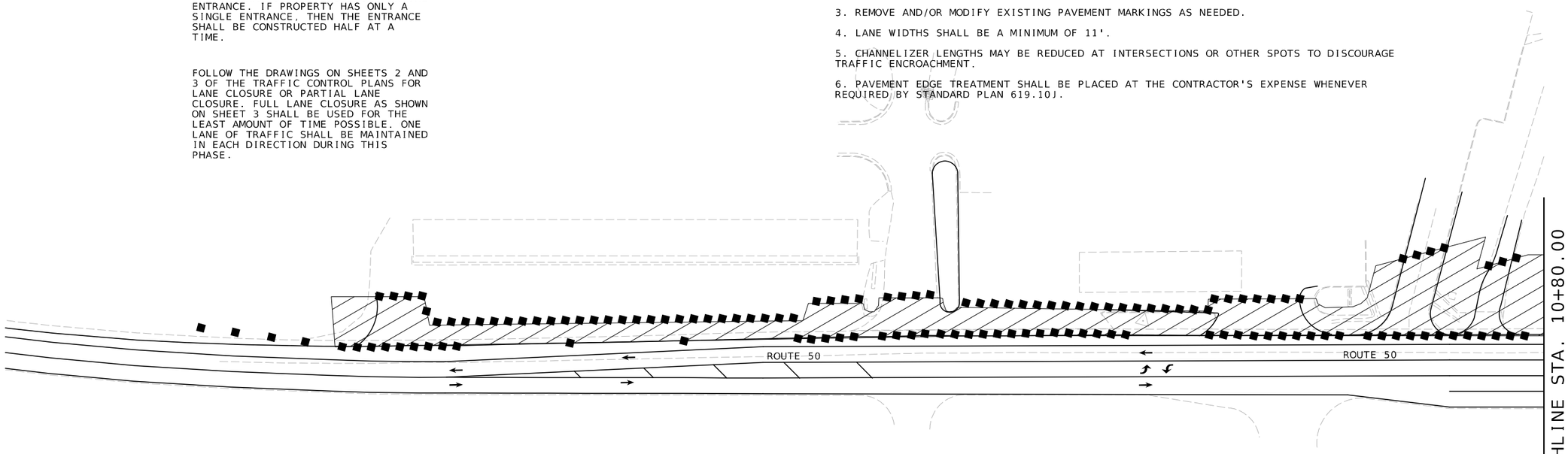
6. PAVEMENT EDGE TREATMENT SHALL BE PLACED AT THE CONTRACTOR'S EXPENSE WHENEVER REQUIRED BY STANDARD PLAN 619.10J.



TRAFFIC CONTROL LEGEND

- SIGN (SINGLE SIDED)
- CHANNELIZERS (TRIMLINE)
- WORK AREA
- DIRECTIONAL INDICATOR BARRICADE
- FLASHING ARROW PANEL
- CHANGEABLE MESSAGE SIGN
- FLAGGER

SPEED	SIGN SPACING (ft.)		TAPER LENGTH (ft.)		OPTIONAL	CHANNELIZER SPACING (ft.)	
Permanent Posted (mph)	Undivided (S)	Divided (S)	Shoulder (1) (T1)	Lane (2) (T2)	BUFFER LENGTH (ft.) (B)	Tapers	Buffer/ Work Areas
40-45	350	500	150	540	400	40	80
1. Shoulder taper length based on 10 ft. (standard shoulder width) offset. 2. Lane taper length based on 12 ft. (standard lane width) offset.							

NOT TO SCALE

TRAFFIC CONTROL PLAN
PHASE 3A
SHEET 16 OF 19

STATE OF MISSOURI
BRYAN SCOT GREGORY
NUMBER PE-2006019659
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED 3/1/2024
ROUTE 50 | STATE MO
DISTRICT CD | SHEET NO. 48
COUNTY OSAGE
JOB NO. J5P3574
CONTRACT ID.
PROJECT NO.
BRIDGE NO.

DESCRIPTION | DATE

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

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

Bartlett & West
601 MONROE ST. SUITE 201 - JEFFERSON CITY, MO 65101
PHONE 573-634-3181
CERTIFICATE OF AUTHORITY NO. 000167 - ENGINEERING
WWW.BARTLETTWEST.COM

1. SIGN SPACINGS MAY BE ADJUSTED AS NECESSARY TO MEET FIELD CONDITIONS.

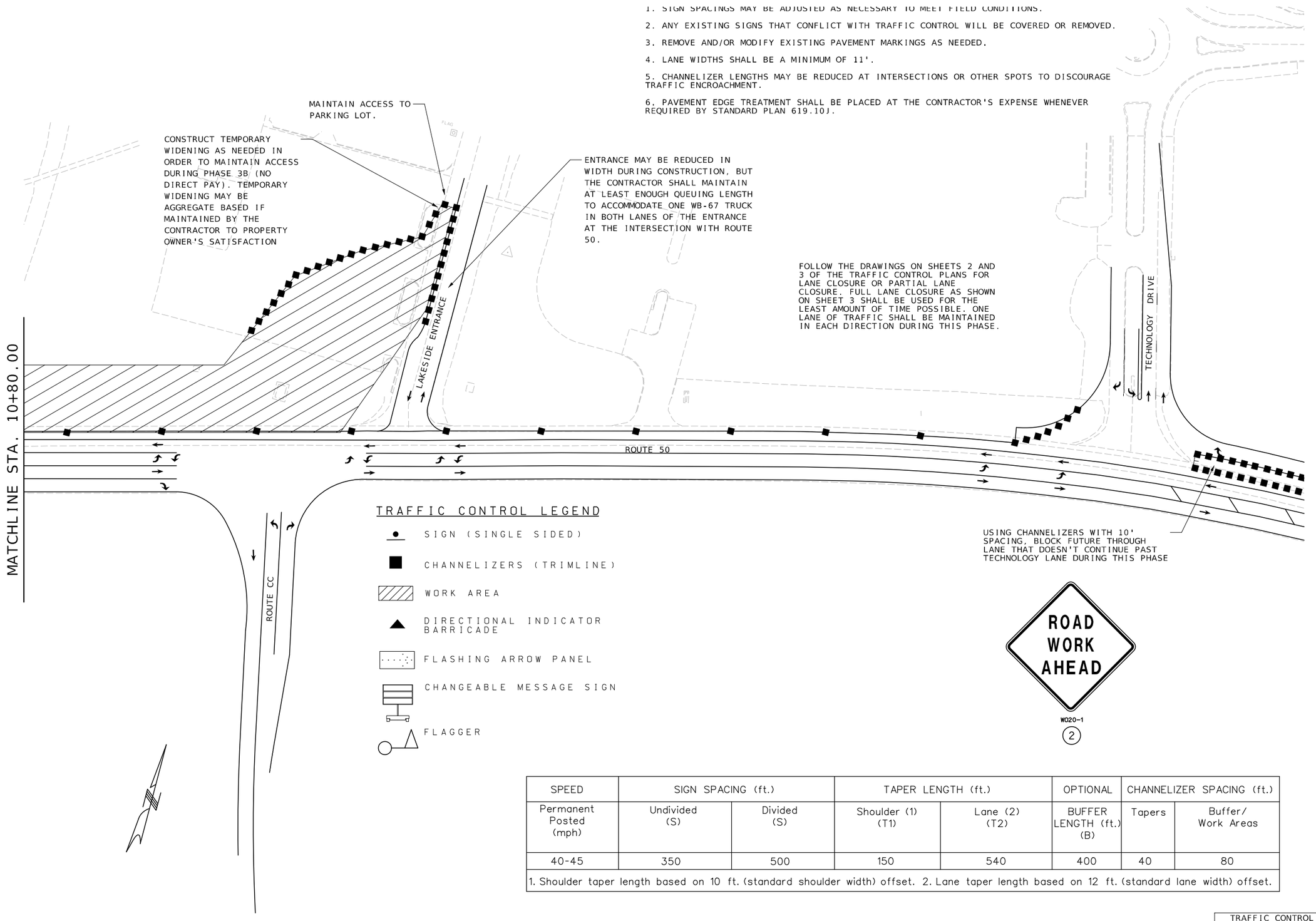
2. ANY EXISTING SIGNS THAT CONFLICT WITH TRAFFIC CONTROL WILL BE COVERED OR REMOVED.

3. REMOVE AND/OR MODIFY EXISTING PAVEMENT MARKINGS AS NEEDED.

4. LANE WIDTHS SHALL BE A MINIMUM OF 11'.

5. CHANNELIZER LENGTHS MAY BE REDUCED AT INTERSECTIONS OR OTHER SPOTS TO DISCOURAGE TRAFFIC ENCROACHMENT.

6. PAVEMENT EDGE TREATMENT SHALL BE PLACED AT THE CONTRACTOR'S EXPENSE WHENEVER REQUIRED BY STANDARD PLAN 619.10J.



TRAFFIC CONTROL LEGEND

- SIGN (SINGLE SIDED)
- CHANNELIZERS (TRIMLINE)
- WORK AREA
- DIRECTIONAL INDICATOR BARRICADE
- FLASHING ARROW PANEL
- CHANGEABLE MESSAGE SIGN
- FLAGGER

W020-1

(2)

SPEED	SIGN SPACING (ft.)		TAPER LENGTH (ft.)		OPTIONAL	CHANNELIZER SPACING (ft.)	
Permanent Posted (mph)	Undivided (S)	Divided (S)	Shoulder (1) (T1)	Lane (2) (T2)	BUFFER LENGTH (ft.) (B)	Tapers	Buffer/ Work Areas
40-45	350	500	150	540	400	40	80

1. Shoulder taper length based on 10 ft. (standard shoulder width) offset. 2. Lane taper length based on 12 ft. (standard lane width) offset.

NOT TO SCALE

TRAFFIC CONTROL PLAN
PHASE 3A
SHEET 17 OF 19

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

BRYAN SCOT GREGORY
NUMBER PE-2006019659
STATE OF MISSOURI
PROFESSIONAL ENGINEER

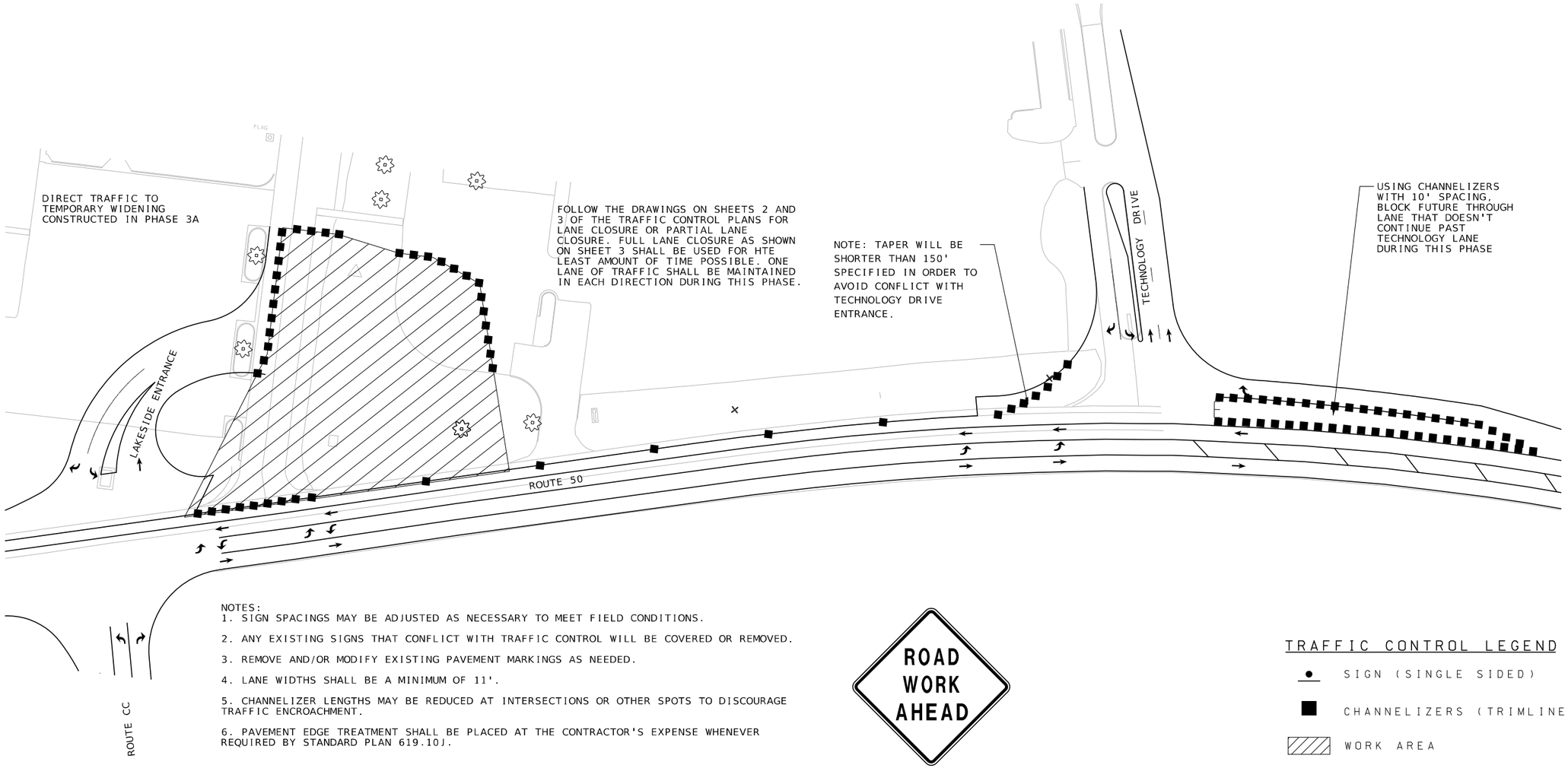
DATE PREPARED: 3/28/2024
ROUTE: 50 | STATE: MO
DISTRICT: CD | SHEET NO.: 49
COUNTY: OSAGE
JOB NO.: J5P3574
CONTRACT ID.:
PROJECT NO.:
BRIDGE NO.:

DESCRIPTION | DATE

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

Bartlett & West
601 MONROE ST. SUITE 201 - JEFFERSON CITY, MO 65101
PHONE 573-634-3161
CERTIFICATE OF AUTHORITY NO. 000167 - ENGINEERING
WWW.BARTLETTWEST.COM

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



NOTES:
1. SIGN SPACINGS MAY BE ADJUSTED AS NECESSARY TO MEET FIELD CONDITIONS.
2. ANY EXISTING SIGNS THAT CONFLICT WITH TRAFFIC CONTROL WILL BE COVERED OR REMOVED.
3. REMOVE AND/OR MODIFY EXISTING PAVEMENT MARKINGS AS NEEDED.
4. LANE WIDTHS SHALL BE A MINIMUM OF 11'.
5. CHANNELIZER LENGTHS MAY BE REDUCED AT INTERSECTIONS OR OTHER SPOTS TO DISCOURAGE TRAFFIC ENCROACHMENT.
6. PAVEMENT EDGE TREATMENT SHALL BE PLACED AT THE CONTRACTOR'S EXPENSE WHENEVER REQUIRED BY STANDARD PLAN 619.10J.

W020-1
(2)

SPEED	SIGN SPACING (ft.)		TAPER LENGTH (ft.)		OPTIONAL	CHANNELIZER SPACING (ft.)	
Permanent Posted (mph)	Undivided (S)	Divided (S)	Shoulder (1) (T1)	Lane (2) (T2)	BUFFER LENGTH (ft.) (B)	Tapers	Buffer/ Work Areas
40-45	350	500	150	540	400	40	80
1. Shoulder taper length based on 10 ft. (standard shoulder width) offset. 2. Lane taper length based on 12 ft. (standard lane width) offset.							

TRAFFIC CONTROL LEGEND

- SIGN (SINGLE SIDED)
- CHANNELIZERS (TRIMLINE)
- WORK AREA
- DIRECTIONAL INDICATOR BARRICADE
- FLASHING ARROW PANEL
- CHANGEABLE MESSAGE SIGN
- FLAGGER

NOT TO SCALE

TRAFFIC CONTROL PLAN
PHASE 3B
SHEET 18 OF 19

STATE OF MISSOURI
BRYAN SCOT GREGORY
NUMBER PE-2006019659
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED 3/28/2024

ROUTE	STATE
50	MO
DISTRICT	SHEET NO.
CD	50

COUNTY: OSAGE
JOB NO.: J5P3574
CONTRACT ID.:
PROJECT NO.:
BRIDGE NO.:

DESCRIPTION	DATE

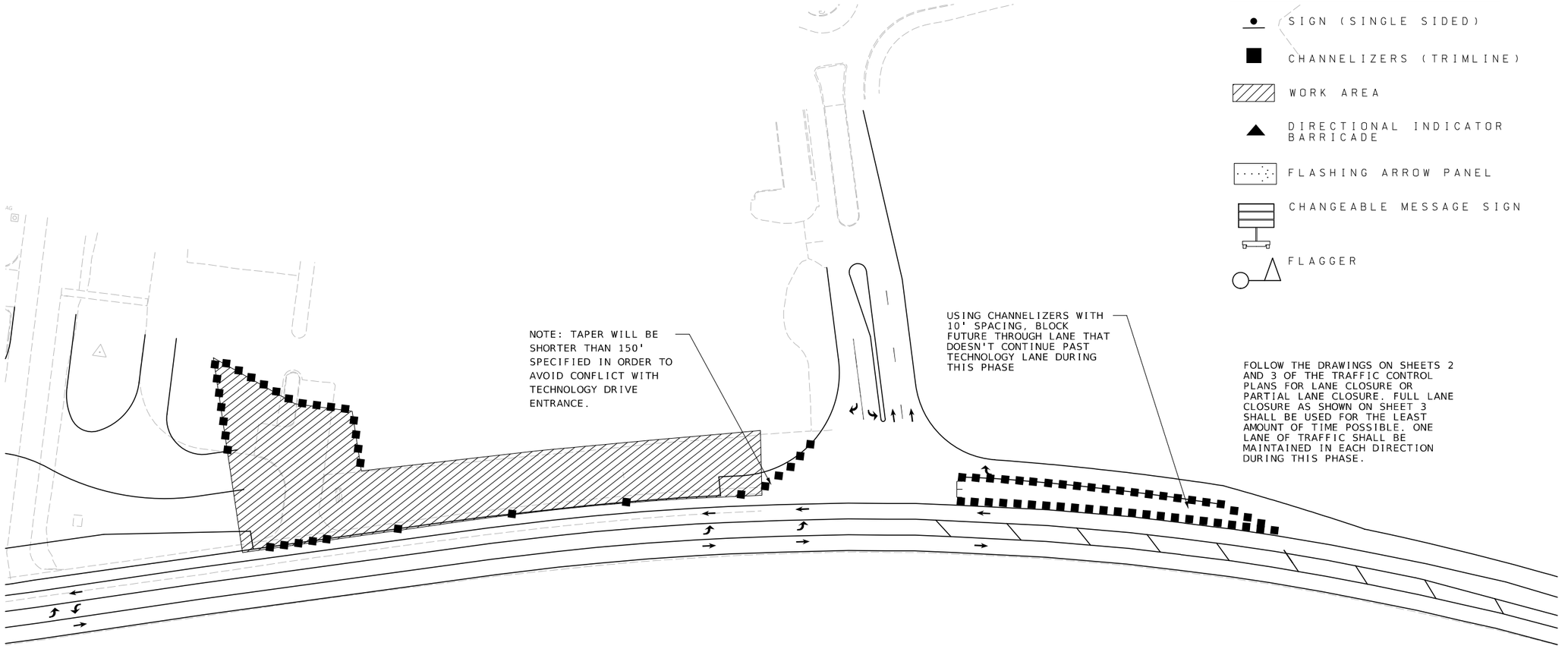
MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

Bartlett & West
601 MONROE ST. SUITE 201 - JEFFERSON CITY, MO 65101
PHONE 573-634-3181
CERTIFICATE OF AUTHORITY NO. 000167 - ENGINEERING
WWW.BARTLETTWEST.COM

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

TRAFFIC CONTROL LEGEND

- SIGN (SINGLE SIDED)
- CHANNELIZERS (TRIMLINE)
- WORK AREA
- DIRECTIONAL INDICATOR BARRICADE
- FLASHING ARROW PANEL
- CHANGEABLE MESSAGE SIGN
- FLAGGER



FOLLOW THE DRAWINGS ON SHEETS 2 AND 3 OF THE TRAFFIC CONTROL PLANS FOR LANE CLOSURE OR PARTIAL LANE CLOSURE. FULL LANE CLOSURE AS SHOWN ON SHEET 3 SHALL BE USED FOR THE LEAST AMOUNT OF TIME POSSIBLE. ONE LANE OF TRAFFIC SHALL BE MAINTAINED IN EACH DIRECTION DURING THIS PHASE.

NOTES:
1. SIGN SPACINGS MAY BE ADJUSTED AS NECESSARY TO MEET FIELD CONDITIONS.

2. ANY EXISTING SIGNS THAT CONFLICT WITH TRAFFIC CONTROL WILL BE COVERED OR REMOVED.

3. REMOVE AND/OR MODIFY EXISTING PAVEMENT MARKINGS AS NEEDED.

4. LANE WIDTHS SHALL BE A MINIMUM OF 11'.

5. CHANNELIZER LENGTHS MAY BE REDUCED AT INTERSECTIONS OR OTHER SPOTS TO DISCOURAGE TRAFFIC ENCROACHMENT.

6. PAVEMENT EDGE TREATMENT SHALL BE PLACED AT THE CONTRACTOR'S EXPENSE WHENEVER REQUIRED BY STANDARD PLAN 619.10J.

SPEED	SIGN SPACING (ft.)		TAPER LENGTH (ft.)		OPTIONAL	CHANNELIZER SPACING (ft.)	
Permanent Posted (mph)	Undivided (S)	Divided (S)	Shoulder (1) (T1)	Lane (2) (T2)	BUFFER LENGTH (ft.) (B)	Tapers	Buffer/ Work Areas
40-45	350	500	150	540	400	40	80
1. Shoulder taper length based on 10 ft. (standard shoulder width) offset. 2. Lane taper length based on 12 ft. (standard lane width) offset.							

NOT TO SCALE

TRAFFIC CONTROL PLAN
PHASE 3C
SHEET 19 OF 19

STATE OF MISSOURI
BRYAN SCOT GREGORY
NUMBER PE-2006019659
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED 4/4/2024

ROUTE	STATE
50	MO
DISTRICT	SHEET NO.
CD	51

COUNTY: OSAGE
JOB NO.: J5P3574
CONTRACT ID.:
PROJECT NO.:
BRIDGE NO.:

DESCRIPTION	DATE

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

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

Bartlett & West
601 MONROE ST. SUITE 201 - JEFFERSON CITY, MO 65101
PHONE 573-634-3181
CERTIFICATE OF AUTHORITY NO. 000167 - ENGINEERING
WWW.BARTLETTWEST.COM

HARBOR PLACE RE-LINN, LLC

100 GRANDE PROPERTIES, L.L.C.

665

P RISER

P RISER

P RISER

20' WATERLINE ESMT

40' EXIST. MODOT R/W

R/W (NORMAL ACCESS)

ROCK DITCH CHECK
(TYP.)

CUT SLOPE

S.L.

MATCHLINE STA 668+40

ROUTE 50 ℄

S.L.

SIGN

SIGN

40' EXIST. MODOT R/W

SILT FENCE
STA 665+84.94
MO ROUTE 50
STA 668+40
MO ROUTE 50

BEGIN PROJECT
STA 666+90.00

D&E STORAGE, L.L.C.

SCALE

0 20 40 60

TEMPORARY EROSION CONTROL LEGEND

- SILT FENCE
- TEMPORARY SEDIMENT BASIN
- PERMANENT SEDIMENT BASIN
- EROSION CONTROL BLANKET/ SEEDING
- TURF TYPE TALL FESCUE SODDING
- (A) ALTERNATE DITCH CHECK
- (C) CURB INLET CHECK
- (R) ROCK DITCH CHECK
- (S) SEDIMENT TRAP
- ENERGY DISSIPATOR

EROSION CONTROL
SHEET 1 OF 10

STATE OF MISSOURI
COLLIN J. WILCOX
NUMBER PE-2019035614
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED, AND DATED ELECTRONICALLY

DATE PREPARED
4/8/2024

ROUTE	STATE
50	MO
DISTRICT	SHEET NO.
CD	52

COUNTY
OSAGE

JOB NO.
J5P3574

CONTRACT ID.
.

PROJECT NO.
.

BRIDGE NO.
.

DESCRIPTION	DATE
.	.

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

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

LOCHMUELLER GROUP
411 North 10th Street, Suite 200
St. Louis, MO 63101
Phone: 314.621.3395

$FILE$ $TIME$ $DATE$

100 GRANDE PROPERTIES, L.L.C

BAND PROPERTIES, LLC

WOLFE CEDAR GROVE APARTMENTS, L.L.C.

SCALE
0 20 40 60

SEDIMENT TRAP

PR ROCK LINER

CUT SLOPE

ROCK DITCH CHECK (TYP.)

20' WATERLINE ESMT

R/W (NORMAL ACCESS)

EXIST. MODOT R/W

TEMP CONST ESMT

S.L.

670

MATCHLINE STA 668+40.00

MATCHLINE STA 673+90.00

ROUTE 50 ℄

PT STA ℄ 673+46.44

EQUATION:
STA 673+35.46 BK
STA 673+46.44 AH

SILT FENCE
STA 668+40
MO ROUTE 50
STA 672+20
MO ROUTE 50

SILT FENCE
STA 672+70
MO ROUTE 50
STA 673+69.88
MO ROUTE 50

THE STATE OF MISSOURI ACTING BY AND THROUGH THE MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

TEMPORARY EROSION CONTROL LEGEND

- SILT FENCE
- TEMPORARY SEDIMENT BASIN
- PERMANENT SEDIMENT BASIN
- EROSION CONTROL BLANKET/ SEEDING
- TURF TYPE TALL FESCUE SODDING
- (A) ALTERNATE DITCH CHECK
- (C) CURB INLET CHECK
- (R) ROCK DITCH CHECK
- (S) SEDIMENT TRAP
- ENERGY DISSIPATOR

EROSION CONTROL
SHEET 2 OF 10

$FILE$ $TIME$ $DATE$

STATE OF MISSOURI
COLLIN J. WILCOX
NUMBER PE-2019035614
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED, AND DATED ELECTRONICALLY

DATE PREPARED
4/8/2024

ROUTE	STATE
50	MO
DISTRICT	SHEET NO.
CD	53

COUNTY
OSAGE

JOB NO.
J5P3574

CONTRACT ID.
.

PROJECT NO.
.

BRIDGE NO.
.

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

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

LOCHMUELLER GROUP
411 North 10th Street, Suite 200
St. Louis, MO 63101
Phone: 314.621.3395

TEMPORARY EROSION CONTROL LEGEND

- SILT FENCE
- TEMPORARY SEDIMENT BASIN
- PERMANENT SEDIMENT BASIN
- EROSION CONTROL BLANKET/ SEEDING
- TURF TYPE TALL FESCUE SODDING
- (A) ALTERNATE DITCH CHECK
- (C) CURB INLET CHECK
- (R) ROCK DITCH CHECK
- (S) SEDIMENT TRAP
- ENERGY DISSIPATOR

SCALE 0 20 40 60

WOLFE CEDAR GROVE APARTMENTS, L.L.C.

NORTHERN LIGHTS DEVELOPMENT

BOARD OF REGENTS LINN STATE TECHNICAL COLLEGE

CASPER'S CONOCO, LLC

PROGRESS LANE

675

CURB INLET CHECK (TYP)

TEMP CONST ESMT

EXIST. MODOT R/W

S.L.

ROUTE 50 ℄

MATCHLINE STA 673+90.00

MATCHLINE STA 679+30.00

THE STATE OF MISSOURI ACTING BY AND THROUGH THE MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

LEGENDS BANK

EROSION CONTROL
SHEET 3 OF 10

$FILE$ $TIME$ $DATE$

COLLIN J. WILCOX NUMBER PE-2019035614 — STATE OF MISSOURI — PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED, AND DATED ELECTRONICALLY

DATE PREPARED 4/8/2024

ROUTE	STATE
50	MO
DISTRICT	SHEET NO.
CD	54

COUNTY: OSAGE

JOB NO.: J5P3574

CONTRACT ID.: .

PROJECT NO.: .

BRIDGE NO.: .

DESCRIPTION	DATE
.	.

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

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

LOCHMUELLER GROUP
411 North 10th Street, Suite 200
St. Louis, MO 63101
Phone: 314.621.3395

TEMPORARY EROSION CONTROL LEGEND

- SILT FENCE
- TEMPORARY SEDIMENT BASIN
- PERMANENT SEDIMENT BASIN
- EROSION CONTROL BLANKET/ SEEDING
- TURF TYPE TALL FESCUE SODDING
- (A) ALTERNATE DITCH CHECK
- (C) CURB INLET CHECK
- (R) ROCK DITCH CHECK
- (S) SEDIMENT TRAP
- ENERGY DISSIPATOR

SCALE
0 20 40 60

TK RENTALS, L.L.C.

LSC COMMUNICATIONS BOOK, LLC

BAND PROPERTIES, LLC

GIER HOLDING L.L.C.

LEGENDS BANK

LION'S CLUB OF LINN

680

ROUTE 50 ℄

MATCHLINE STA 679+30.00

MATCHLINE STA 684+70.00

MATCHLINE STA 1+40.00

START STA 0+00.00

PC STA 0+37.00

N75°10'48"E

N11°49'12"W

S11°52'31"E

PR ℄ ROUTE CC

EX ℄ ROUTE CC

1/4 - 1/4 SECTION LINE

R/W (NORMAL ACCESS)

20' WATERLINE ESMT

TEMP CONST ESMT

R/W (CONTR ACCESS)

CUT SLOPE

CURB INLET CHECK (TYP)

N OUTER DRIVE

EXIST. MODOT R/W

S.L.

SWALE LINE

FILL SLOPE

SILT FENCE
STA 0+31
HIGHWAY CC
STA 2+49
HIGHWAY CC

EROSION CONTROL
SHEET 4 OF 10

$FILE$ $TIME$ $DATE$

COLLIN J. WILCOX
NUMBER PE-2019035614
STATE OF MISSOURI
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED, AND DATED ELECTRONICALLY

DATE PREPARED
4/8/2024

ROUTE	STATE
50	MO
DISTRICT	SHEET NO.
CD	55

COUNTY
OSAGE

JOB NO.
J5P3574

CONTRACT ID.
.

PROJECT NO.
.

BRIDGE NO.
.

DESCRIPTION	DATE
.	.

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

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

LOCHMUELLER GROUP
411 North 10th Street, Suite 200
St. Louis, MO 63101
Phone: 314.621.3395

OSAGE COUNTY COMMUNITY CENTER, INC.

SCALE
0 20 40 60

PRC STA 2+54.22

P.I. STA 3+52.52

S.L.

TEMP CONST ESMT

R/W (CONTR ACCESS)

END CONSTRUCTION
STA 4+95.90

END STA 4+95.90

CURB INLET CHECK (TYP)

20' WATERLINE ESMT

N OUTER DRIVE

N75°05'29"E

685

690

EXIST. MODOT R/W

R/W (CONTR ACCESS)

P C STA 687+84.70

EQUATION:
STA 687+84.70 BK =
STA 687+84.70 AH

MATCHLINE STA 684+70

MATCHLINE STA 690+00

ROUTE 50 ℄

S.L.

EXIST. MODOT R/W

S.L.

OWNER: LION'S CLUB OF LINN

TEMPORARY EROSION CONTROL LEGEND

- SILT FENCE
- TEMPORARY SEDIMENT BASIN
- PERMANENT SEDIMENT BASIN
- EROSION CONTROL BLANKET/ SEEDING
- TURF TYPE TALL FESCUE SODDING
- (A) ALTERNATE DITCH CHECK
- (C) CURB INLET CHECK
- (R) ROCK DITCH CHECK
- (S) SEDIMENT TRAP
- ENERGY DISSIPATOR

EROSION CONTROL
SHEET 5 OF 10

$FILE$ $TIME$ $DATE$

STATE OF MISSOURI
COLLIN J. WILCOX
NUMBER PE-2019035614
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED, AND DATED ELECTRONICALLY

DATE PREPARED
4/8/2024

ROUTE	STATE
50	MO
DISTRICT	SHEET NO.
CD	56

COUNTY
OSAGE

JOB NO.
J5P3574

CONTRACT ID.
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PROJECT NO.
.

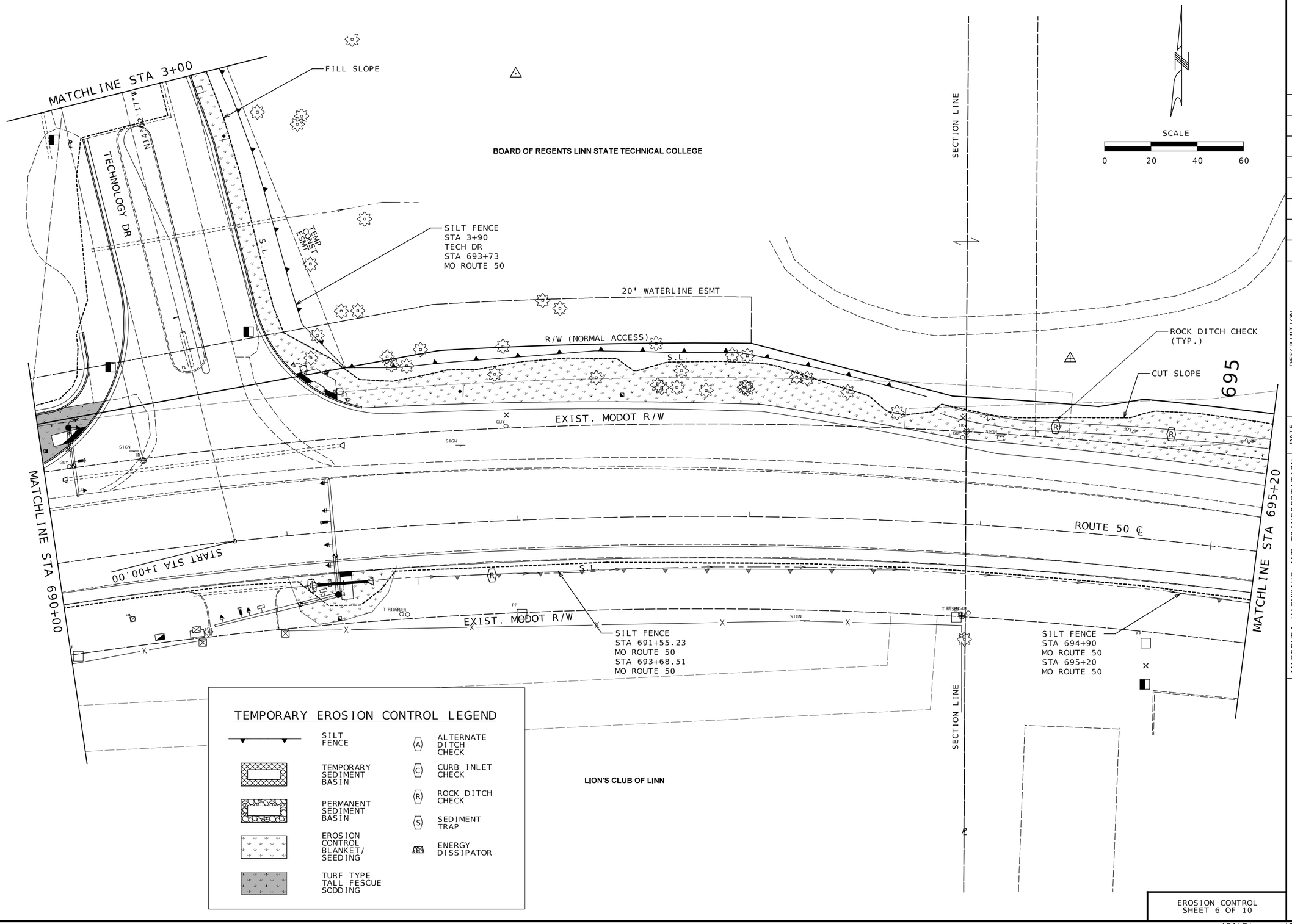
BRIDGE NO.
.

DATE	DESCRIPTION
.	.

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

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

LOCHMUELLER GROUP
411 North 10th Street, Suite 200
St. Louis, MO 63101
Phone: 314.621.3395



TEMPORARY EROSION CONTROL LEGEND

- SILT FENCE
- TEMPORARY SEDIMENT BASIN
- PERMANENT SEDIMENT BASIN
- EROSION CONTROL BLANKET/ SEEDING
- TURF TYPE TALL FESCUE SODDING
- (A) ALTERNATE DITCH CHECK
- (C) CURB INLET CHECK
- (R) ROCK DITCH CHECK
- (S) SEDIMENT TRAP
- ENERGY DISSIPATOR

EROSION CONTROL
SHEET 6 OF 10

COLLIN J. WILCOX NUMBER PE-2019035614
STATE OF MISSOURI PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED, AND DATED ELECTRONICALLY

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

DATE	DESCRIPTION
.	.

DATE PREPARED: 4/8/2024

ROUTE	STATE
50	MO
DISTRICT	SHEET NO.
CD	57

COUNTY: OSAGE

JOB NO.: J5P3574

CONTRACT ID.: .

PROJECT NO.: .

BRIDGE NO.: .

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

LOCHMUELLER GROUP
411 North 10th Street, Suite 200
St. Louis, MO 63101
Phone: 314.621.3395

$FILE$ $TIME$ $DATE$

BOARD OF REGENTS LINN STATE TECHNICAL COLLEGE

ROCK DITCH CHECK (TYP.)

CUT SLOPE

TEMP CONST ESMT

R/W (NORMAL ACCESS)

EXIST. MODOT R/W

ROUTE 50 ℄

S81°48'01"E

PT STA D 693+50.20

PC STA E 699+07.94

EQUATION:
STA 699+05.82 BK =
STA 699+07.94 AH

MATCHLINE STA 695+20

MATCHLINE STA 700+50

SCALE
0 20 40 60

SILT FENCE
STA 695+20
MO ROUTE 50
STA 696+21
MO ROUTE 50

SILT FENCE
STA 696+62.50
MO ROUTE 50
STA 700+50
MO ROUTE 50

BAND PROPERTIES, LLC

REORGANIZED SCHOOL DISTRICT NO. R-II OF OSAGE COUNTY

TEMPORARY EROSION CONTROL LEGEND

- SILT FENCE
- TEMPORARY SEDIMENT BASIN
- PERMANENT SEDIMENT BASIN
- EROSION CONTROL BLANKET/ SEEDING
- TURF TYPE TALL FESCUE SODDING
- (A) ALTERNATE DITCH CHECK
- (C) CURB INLET CHECK
- (R) ROCK DITCH CHECK
- (S) SEDIMENT TRAP
- ENERGY DISSIPATOR

EROSION CONTROL
SHEET 7 OF 10

$FILE$ $TIME$ $DATE$

STATE OF MISSOURI
COLLIN J. WILCOX
NUMBER PE-2019035614
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED, AND DATED ELECTRONICALLY

DATE PREPARED
4/8/2024

ROUTE	STATE
50	MO
DISTRICT	SHEET NO.
CD	58

COUNTY
OSAGE

JOB NO.
J5P3574

CONTRACT ID.
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PROJECT NO.
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BRIDGE NO.
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DATE	DESCRIPTION
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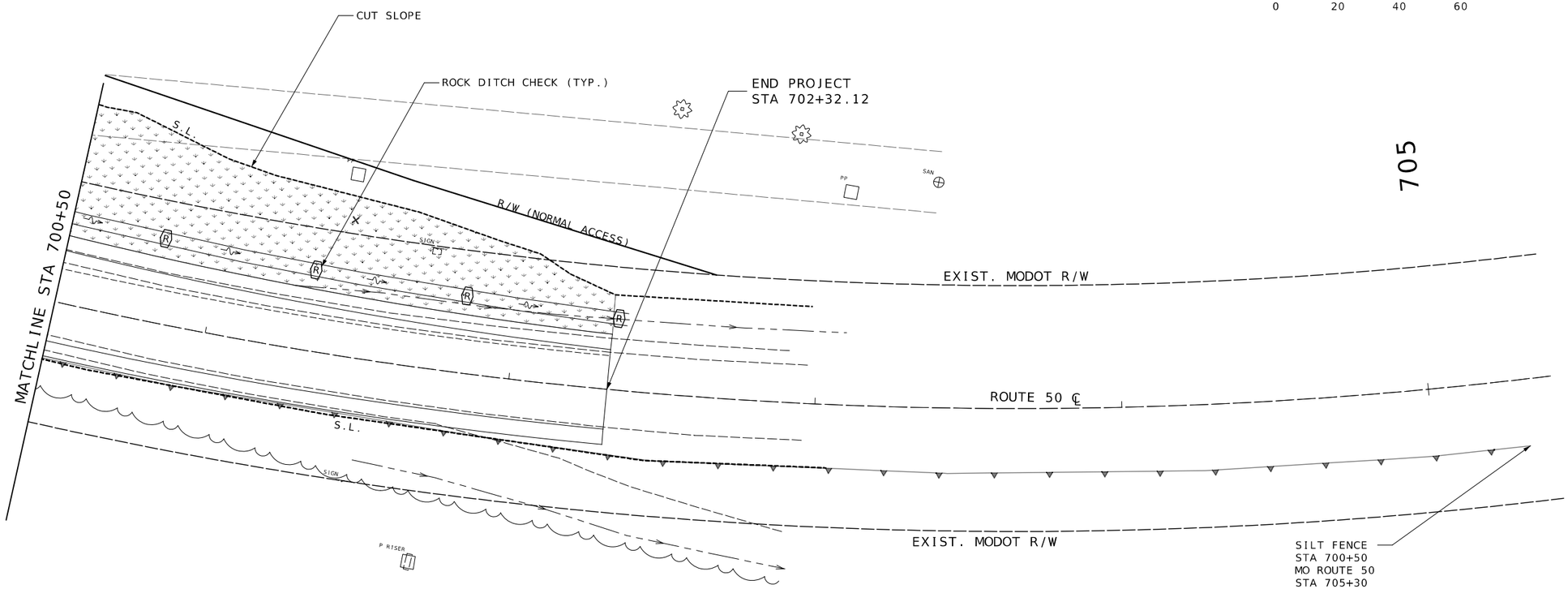
IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

LOCHMUELLER GROUP
411 North 10th Street, Suite 200
St. Louis, MO 63101
Phone: 314.621.3395

BOARD OF REGENTS LINN STATE TECHNICAL COLLEGE



SCALE
0 20 40 60

TEMPORARY EROSION CONTROL LEGEND

- SILT FENCE
- TEMPORARY SEDIMENT BASIN
- PERMANENT SEDIMENT BASIN
- EROSION CONTROL BLANKET/ SEEDING
- TURF TYPE TALL FESCUE SODDING
- (A) ALTERNATE DITCH CHECK
- (C) CURB INLET CHECK
- (R) ROCK DITCH CHECK
- (S) SEDIMENT TRAP
- ENERGY DISSIPATOR

REORGANIZED SCHOOL DISTRICT NO. R-II OF OSAGE COUNTY

STATE OF MISSOURI
COLLIN J. WILCOX
NUMBER PE-2019035614
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED, AND DATED ELECTRONICALLY

DATE PREPARED
4/8/2024

ROUTE	STATE
50	MO
DISTRICT	SHEET NO.
CD	59

COUNTY
OSAGE

JOB NO.
J5P3574

CONTRACT ID.
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PROJECT NO.
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BRIDGE NO.
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DESCRIPTION	DATE
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IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

LOCHMUELLER GROUP
411 North 10th Street, Suite 200
St. Louis, MO 63101
Phone: 314.621.3395

EROSION CONTROL
SHEET 8 OF 10

$FILE$ $TIME$ $DATE$

OWNER: LION'S CLUB OF LINN

SILT FENCE
STA 0+31
HIGHWAY CC
STA 2+49
HIGHWAY CC

FILL SLOPE

SILT FENCE
STA 2+83
HIGHWAY CC
STA 4+46
HIGHWAY CC

END EROSION CONTROL
STA 4+46

EXIST. MODOT R/W

PC STA 3+80.20

PT STA 4+34.90

EQUATION
STA 5+35.10 BK =
STA 5+34.90 AH

EX ROUTE CC

PR ROUTE CC

S11°52'31"E

MATCHLINE STA 1+40.00

EXIST. MODOT R/W
R/W (NORMAL ACCESS)

ROCK DITCH CHECK
(TYP.)

TEMP. CONST ESMT

CUT SLOPE

BAND PROPERTIES L.L.C.

GIER HOLDING L.L.C.

SCALE
0 20 40 60

TEMPORARY EROSION CONTROL LEGEND

- SILT FENCE
- TEMPORARY SEDIMENT BASIN
- PERMANENT SEDIMENT BASIN
- EROSION CONTROL BLANKET/ SEEDING
- TURF TYPE TALL FESCUE SODDING
- (A) ALTERNATE DITCH CHECK
- (C) CURB INLET CHECK
- (R) ROCK DITCH CHECK
- (S) SEDIMENT TRAP
- ENERGY DISSIPATOR

EROSION CONTROL
SHEET 9 OF 10

COLLIN J. WILCOX
NUMBER PE-2019035614
PROFESSIONAL ENGINEER
STATE OF MISSOURI

THIS SHEET HAS BEEN SIGNED, SEALED, AND DATED ELECTRONICALLY

DATE PREPARED
4/8/2024

ROUTE	STATE
50	MO
DISTRICT	SHEET NO.
CD	60

COUNTY
OSAGE

JOB NO.
J5P3574

CONTRACT ID.
.

PROJECT NO.
.

BRIDGE NO.
.

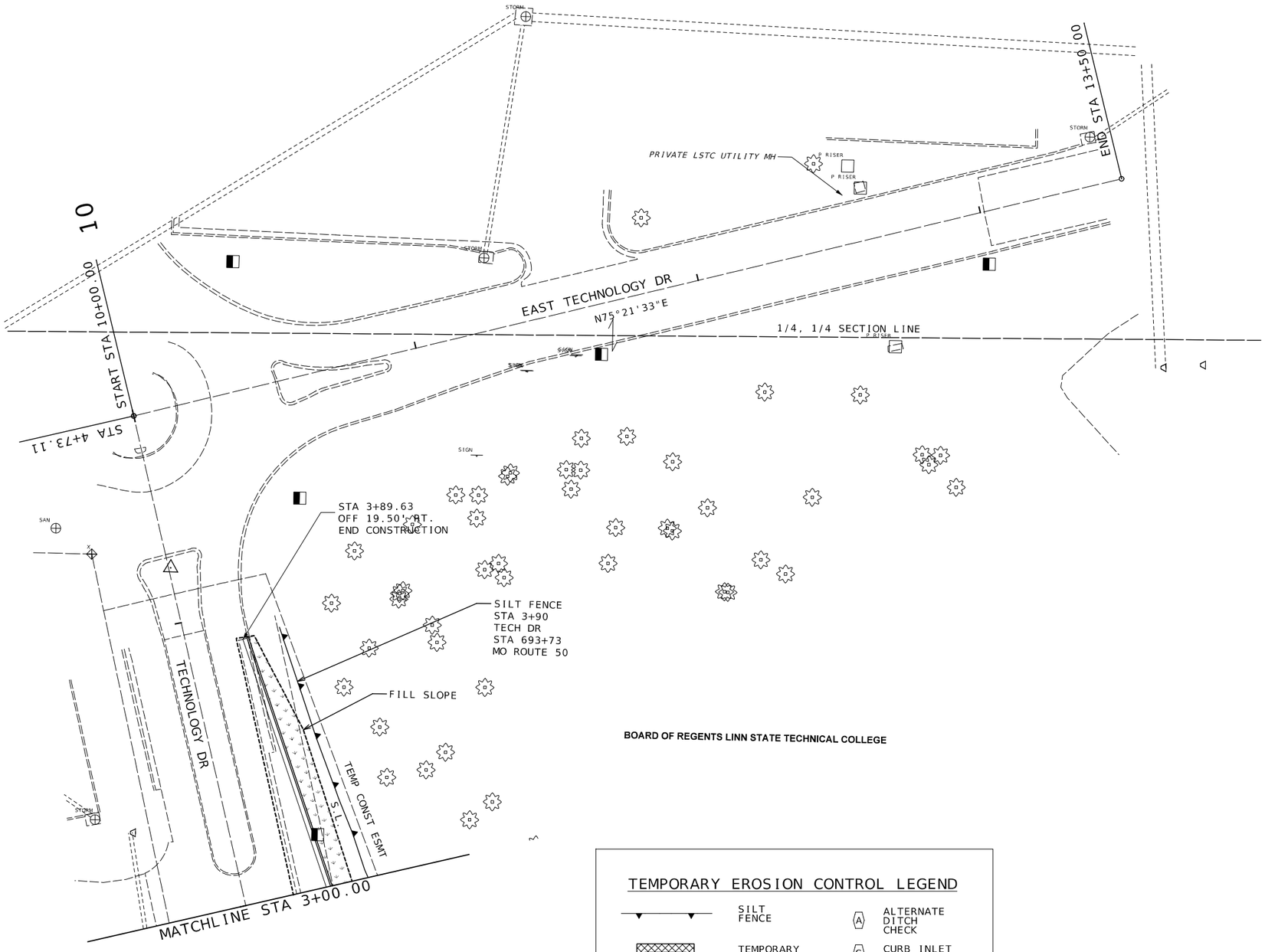
DESCRIPTION	DATE
.	.

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

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

LOCHMUELLER GROUP
411 North 10th Street, Suite 200
St. Louis, MO 63101
Phone: 314.621.3395

$FILE$ $TIME$ $DATE$



SCALE

0 20 40 60

BOARD OF REGENTS LINN STATE TECHNICAL COLLEGE

TEMPORARY EROSION CONTROL LEGEND

- SILT FENCE
- TEMPORARY SEDIMENT BASIN
- PERMANENT SEDIMENT BASIN
- EROSION CONTROL BLANKET/ SEEDING
- TURF TYPE TALL FESCUE SODDING
- (A) ALTERNATE DITCH CHECK
- (C) CURB INLET CHECK
- (R) ROCK DITCH CHECK
- (S) SEDIMENT TRAP
- ENERGY DISSIPATOR

STATE OF MISSOURI
COLLIN J. WILCOX
NUMBER PE-2019035614
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED, AND DATED ELECTRONICALLY

DATE PREPARED
4/8/2024

ROUTE	STATE
50	MO
DISTRICT	SHEET NO.
CD	61

COUNTY
OSAGE

JOB NO.
J5P3574

CONTRACT ID.
.

PROJECT NO.
.

BRIDGE NO.
.

DATE	DESCRIPTION
.	.

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

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

LOCHMUELLER GROUP
411 North 10th Street, Suite 200
St. Louis, MO 63101
Phone: 314.621.3395

EROSION CONTROL
SHEET 10 OF 10

$FILE$ $TIME$ $DATE$

TRAFFIC SIGNALS LEGEND

- CONTROLLER
- CONTROLLER (EXISTING)
- JCT JUNCTION BOX
- POWER SUPPLY
- WOOD POST
- SIGNAL HEAD (OPT LIM CONV)
- SIGNAL HEAD (OPT LIM)
- SIGNAL HEAD (PEDESTRIAN)
- SIGNAL HEAD (STANDARD)
- ITS PULL BOX TYPE 2 EXISTING
- MICROWAVE DETECTION CAMERA
- 360-DEGREE DETECTION CAMERA
- PUSH BUTTON DETECTOR
- PREFORMED PULL BOX TYPE 1
- PREFORMED PULL BOX TYPE 2
- CONCRETE PULL BOX TYPE 1
- CONCRETE PULL BOX TYPE 2
- ITS PULL BOX TYPE 2
- ITS PULL BOX TYPE 5
- DET. ZONE VIDEO DETECTION ZONE
- (21) VIDEO DETECTOR NUMBER
- 6 X 6 LOOP DETECTOR
- 6 X 15 LOOP DETECTOR
- 30 X 6 LOOP DETECTOR
- CONDUIT MEDIAN
- CONDUIT PUSHED
- CONDUIT BRIDGE
- CONDUIT EXISTING
- CONDUIT TRENCHED
- SPAN WIRE
- MAST ARM - TYPE A BASE
- MAST ARM - TYPE C BASE
- MAST ARM - TYPE F BASE

CONNECT TO 2.5" PVC MALE STUB OUT INSTALLED BY ELECTRICAL UTILITY

ADT = 4500
DESIGN SPEED = 25 MPH

N OUTER DR ℄

PRC STA 2+54.22

DILEMMA ZONE MICROWAVE DETECTION ON 15 FT. POLE

S89

STREET NAME SIGN "A"

R10-27A SIGN

STREET NAME SIGN "B"

R10-27A SIGN

PC STA 0+37.00

EX R/W

ADT = 8000
DESIGN SPEED = 45 MPH
715' TO SIGNAL @ TECHNOLOGY DR

ADT = 9000
DESIGN SPEED = 45 MPH
NO UPSTREAM SIGNAL

START STA 0+00.00

ROUTE 50 ℄

SERVICE CONDUCTORS IN PR. RIGID STEEL CONDUIT TO TECHNOLOGY DR. POWER SUPPLY

STREET NAME SIGN "B"

STREET NAME SIGN "A"

R10-27A SIGN

1-F.O.C.IN PR. CONDUIT TO MODOT BLDG.

CLASS 1 PULLBOX STA. 685+59.25 29.25' RT (NO DIRECT PAY)

CLASS 1 PULLBOX STA. 684+41.82 26.53' RT (NO DIRECT PAY)

1-F.O.C.IN PR. CONDUIT TO TECHNOLOGY DR.

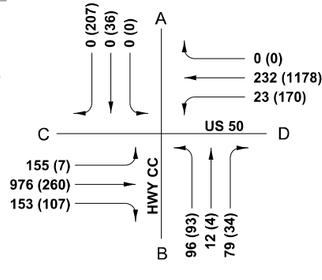
R/W

EX. SHO-ME PULLBOX, DRILL 1 OPENING, INSTALL MODOT F.O. CABLE

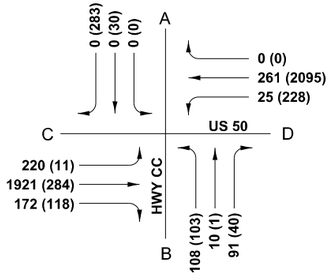
EX. SHO-ME PULLBOX (UIP), INSTALL MODOT F.O. CABLE

1-F.O.C.IN EX. CONDUIT TO MODOT BLDG.

ROUTE CC ℄
ADT = 3250
DESIGN SPEED 40 MPH
NO UPSTREAM SIGNAL



(2025) DHV: A.M. (P.M.)



(2045) DHV: A.M. (P.M.)

SCALE
0 20 40 60

SIGNAL PLAN
SHEET 1 OF 19

$FILE$ $TIME$ $DATE$

STATE OF MISSOURI
TYSON WILLIAM KING
NUMBER PE-2008002177
REGISTERED PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED, AND DATED ELECTRONICALLY

DATE PREPARED	
4/8/2024	
ROUTE	STATE
50	MO
DISTRICT	SHEET NO.
CD	62
COUNTY	
OSAGE	
JOB NO.	
J5P3574	
CONTRACT ID.	
.	
PROJECT NO.	
.	
BRIDGE NO.	
.	

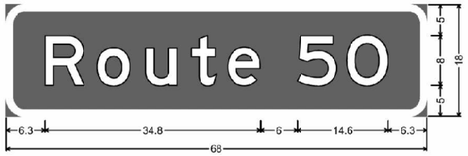
DATE	DESCRIPTION
.	.

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

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

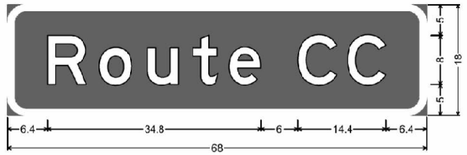
LOCHMUELLER GROUP
411 North 10th Street, Suite 200
St. Louis, MO 63101
Phone: 314.621.3395

SIGN "A"



3.0" Radius, 1.0" Border, White on Green;
"Route", E; "50", E;

SIGN "B"



3.0" Radius, 1.0" Border, White on Green;
"Route", E; "CC", E;

POST NUMBER	PULL BOX NUMBER	LOCATION: APPROACH	LOCATION: STATION	LOCATION: OFFSET	BASE: A 9	A 9.5	A 10	A 10.5	A 11	A 12	F 9	F 9.5	F 10	F 10.5	F 11	F 12	C	CONCRETE** (CU. YDS.)	PULL BOX: PREFORMED CLASS 1	CLASS 2	CLASS 3	CLASS 5	CONCRETE: STANDARD	DOUBLE, TYPE A	DOUBLE, TYPE B	DRAIN TYPE* I	II A	II B	II C	POST: TOP MOUNT POST 4 FT.	8 FT.	15 FT.	TYPE C & CL: ARM LENGTH A	A	A	A	SIGNAL SPACING (1) B	C	D	SIGN SPACING (1) D	B	C	D	D'	LUMINAIRE BRACKET ARM* 8 FT.	10 FT.	12 FT.	15 FT.	LIGHT POLES: 30 FT. POLES	15 FT. BRACKET ARM	LUMINAIRE	FOUNDATION
1		ROUTE 50	682+88.56	51.96' RT				1										3.27															45			0.0'	26.3'	14.1'		3.5'	34.0'							1				
2		ROUTE 50	682+85.94	36.23' RT													1	0.44												1																								
3		ROUTE 50	682+85.79	54.60' LT				1										3.27													40						12.6'	12.0'	13.0'		3.5'	31.1'							1				
4		ROUTE 50	683+13.39	61.40' LT				1										3.27															55			44.4'	10.1'			3.5'	39.0'							1				
5		ROUTE 50	684+21.75	61.40' LT													1	0.44													1																								
6		ROUTE 50	684+18.20	23.52' RT				1										3.27															45			0.0'	17.5'	12.0'	11.0'	3.5'	34.2'							1				
(2) 7		ROUTE 50	680+69.91	35.00' RT				1										3.27															55							(2)	(2)	(2)	(2)											
	1	ROUTE 50	682+67.31	50.24' RT																	1					1																											
	2	ROUTE 50	682+93.92	59.20' LT															1							1																											
	3	ROUTE 50	684+28.79	53.55' LT															1								1																										
	4	ROUTE 50	684+12.74	28.27' RT															1								1																										
	I 1	ROUTE 50	U.I.P.	U.I.P.																																																
	I-2	ROUTE 50	U.I.P.	U.I.P.																																															
	I-3	ROUTE 50	677+42.65	37.34' RT															1							1																											
	I-4	ROUTE 50	682+55.17	38.54' RT																		1				1																											
	I-5	ROUTE 50	684+41.68	31.72' RT															1								1																											
L1		ROUTE 50	684+23.81	68.26' LT																																														1	1	1	1

CONDUIT

FROM	TO	CIR. TO CTR. DIST.	LOOP DETECT	TRENCHED			PUSHED			MEDIAN			ON STRUCTURE			REMARKS
			1"	2"	3"	4"	2"	3"	4"	2"	3"	4"	2"	3"	4"	
SOURCE	SUPPLY	472		(479)												NO DIRECT PAY
SUPPLY	▶◀	12		23												
SUPPLY	1	22		24												
▶◀	1	10			28											2 @ 14 ' EACH
1	①	22			26											
1	②	24			26											
1	2	113						111								
2	③	10			14											
2	④	20			24											
2	3	136						134								
3	⑤	12			14											
1	4	150						148								
4	⑥	8			12											
3	(L1)	16			18											
BUILDING	I1	25		25												
I1	I2	106		104												
I2	I3	96					94									
I3	I4	500		498												
I4	▶◀	26		60												
I4	I5	188					186									
I5	I6	315		313												

POWER SUPPLY

LOCATION			POWER SUPPLY ASSEMBLY		CIRCUIT BREAKER TRIP RATING*				LIGHTING CONTROL * (ON POWER SUPPLY)		SERVICE POLE	
					CONTROLLER		POWER SUPPLY DISCONNECT					
APPROACH	STATION	OFFSET			AUXILIARY BREAKER	AUXILIARY BREAKER	MAIN BREAKER		120 VOLT CONTROL CABINET	MAIN BREAKER	CONTRACT FURNISH	UTILITY COMPANY
							SIGNALS	LIGHTING				
ROUTE 50	682+83.06	61.95' RT	1(5)		15 Amps	40 Amps	100 Amps	100 Amps	1(5)	30 Amps	Cl. Ft.	
					Amps	Amps	Amps	Amps		Amps	Cl. Ft.	

CONTROLLER ASSEMBLY AND AUXILIARY EQUIPMENT

LOCATION			SYSTEM MASTER (CLOSED LOOP)		ACTUATED		ON-OFF* SWITCH		COORDINATION INTERFACE *					TIME * CLOCK	NEMA CABINET TYPE *			170 CABINET TYPE *		170 SOFTWARE *	
							TYPE		12C/7C HARDWIRE (1)		TIME BASE	CLOSED LOOP		FIBER							
APPROACH	STATION	OFFSET	NEMA	170	NEMA	170	I	II	MASTER	LOCAL		NEMA	170			E	EV	DOUBLE	332	336S	BITRAN	WAPITI
ROUTE 50	682+74.90	54.67' RT			1(3)(4)												1(4)(6)					

DETECTOR SCHEDULE

DETECTOR NUMBER	TYPE				
	PUSH BUTTON (7)	INDUCTION LOOP			VIDEO DETECTION (3)(4)
		STANDARD	DELAY/ EXTEND *	CALL UNIT *	
RADAR DETECTION					
P1	1				
P2	1				
P3	1				
P4	1				
TOTAL	4				

		NEMA DETECTOR ASSIGNMENT (2)							
		CARD POSITION							
		1	2	3	4	5	6	7	8
CHANNEL	1			RADAR DETECTION (3)					
	2								

(1) MODOT "D" PLUG SHALL BE WIRED INTO ALL NEMA CONTROLLERS. ALL ALARMS AND PRE-EMPTIONS SHALL BE TERMINATED ON THE CABINET BACK PANEL.

(2) PAYMENT IS MADE FOR THE NUMBER OF 2-CHANNEL DETECTOR CARDS AS SHOWN BELOW THE ASSIGNMENT CHART.

(3) THE CONTRACTOR SHALL FURNISH AND INSTALL A COMPLETE RADAR DETECTION SYSTEM WITH MOUNTING HARDWARE/BRACKETS, TERMINATION PANELS, POWER AND COMMUNICATION CABLES, PROCESSORS, AND MISCELLANEOUS EQUIPMENT NECESSARY FULLY OPERATIONAL RADAR DETECTION SYSTEM FOR BOTH STOP BAR AND ADVANCED VEHICLE DETECTION. THIS WILL BE A COMPLETE UNIT WITH ALL COSTS INCLUDED. RADAR DETECTION INPUTS INTO CONTROLLER SHALL BE VIA TS/2 PORTS.

(4) THE CONTRACTOR SHALL PROVIDE AN ETHERNET ENABLED NEMA TS/2 SIGNAL CONTROLLER. CABINET SETUP SHALL BE TS/2 TYPE 1 WITH SDLC CONNECTORS FOR APPLICABLE SIGNAL ELEMENTS. THE SIGNAL CONTROLLER SHALL BE LISTED ON THE CURRENT MODOT APPROVED PRODUCT LIST OR BE AN EQUIVALENT APPROVED BY MODOT DISTRICT STAFF.

(5) THE CONTRACTOR SHALL PROVIDE AND INSTALL A PAD MOUNTED POWER SUPPLY FOR 120V SIGNAL AND 240V, 4 CIRCUIT LIGHTING CONTROLLER. THE CONTRACTOR SHALL ALSO PROVIDE AND INSTALL AN UNINTERRUPTIBLE POWER SUPPLY IN THE SIGNAL POWER SUPPLY AND LIGHTING CONTROLLER CABINET. SEE DETAILS INCLUDED IN THESE PLANS AND SPECIAL PROVISIONS FOR FURTHER INFORMATION AND REQUIREMENTS.

(6) CABINET, CONTROLLER, AND MONITORS SHALL BE CONFIGURED FOR FYA OPERATION AS NOTED.

(7) EACH PUSH BUTTON SHALL BE CONSIDERED PART OF AN INDIVIDUAL ACCESSIBLE PEDESTRIAN SIGNAL (APS) UNIT. WHERE PUSH BUTTONS ARE SHOWN IN THE PLANS, AN INDIVIDUAL APS UNIT SHALL BE INSTALLED. THE PEDESTRIAN PUSH BUTTONS SHALL BE MOUNTED 42" ABOVE THE PEDESTRIAN PATH, AND WITHIN A 10" SIDE REACH OF ADJACENT LEVEL LANDING AREA. SEE SPECIAL PROVISIONS FOR DETAILED INFORMATION.

NEMA LOAD SWITCH ASSIGNMENTS

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
Ø1 EBL	Ø2 WB	Ø3 NBL	Ø4 SB	Ø5 WBL	Ø6 EB	Ø7 SBL	Ø8 NB	EB_ OLA FYA	NBL OLB FYA	WBL OLC FYA	SBL OLD FYA	2P N. SIDE	4P W. SIDE	N/U	N/U

ROUTE 50 AND ROUTE CC
INTERSECTION

SIGNAL PLAN
SHEET 4 OF 19

$FILE$ $TIME$ $DATE$

STATE OF MISSOURI
TYSON WILLIAM KING
NUMBER PE-2008002177
REGISTERED PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED, AND DATED ELECTRONICALLY

DATE PREPARED 4/8/2024

ROUTE	STATE
50	MO
DISTRICT	SHEET NO.
CD	65

COUNTY: OSAGE
JOB NO.: J5P3574
CONTRACT ID.: .
PROJECT NO.: .
BRIDGE NO.: .

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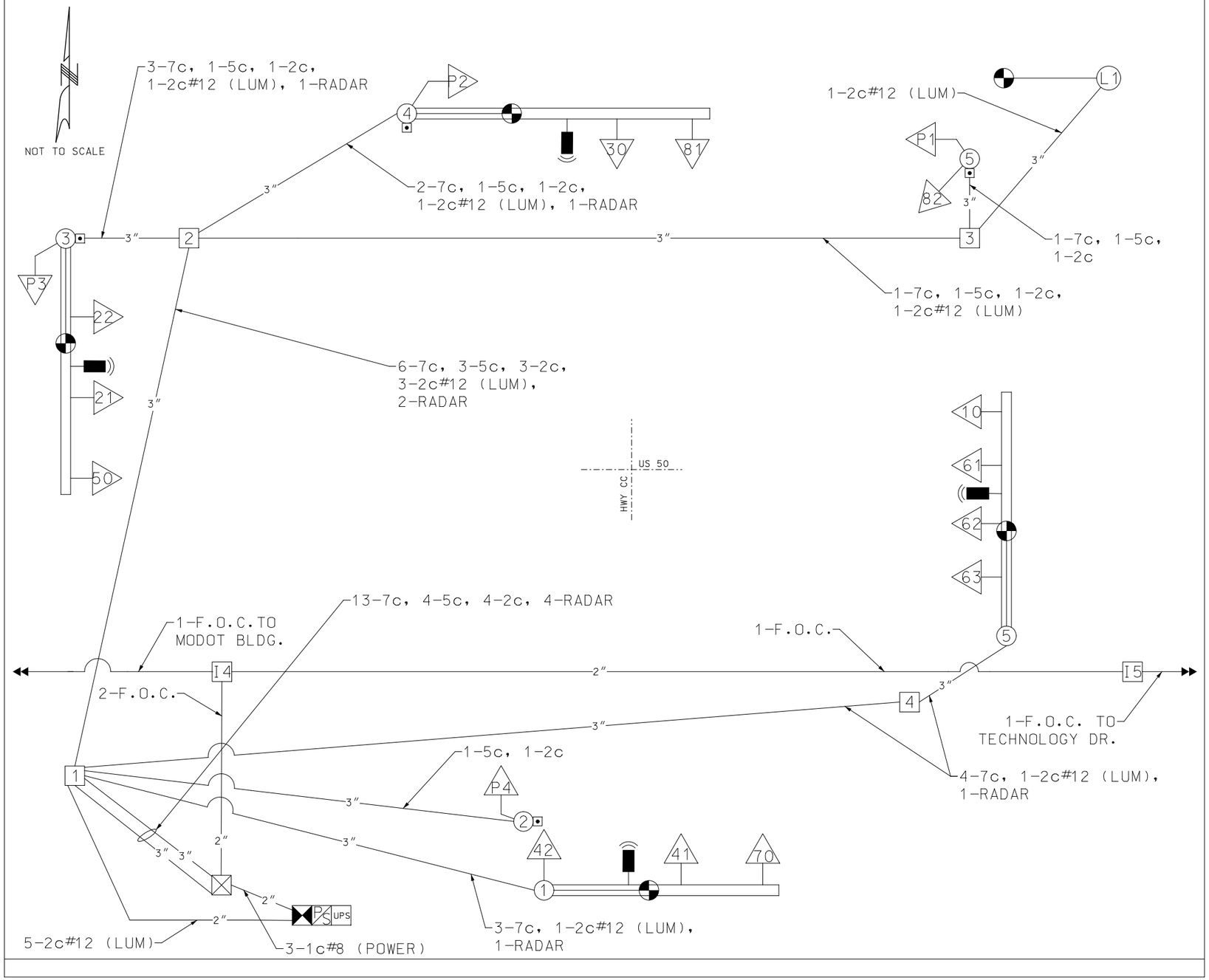
IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

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

LOCHMUELLER GROUP
411 North 10th Street, Suite 200
St. Louis, MO 63101
Phone: 314.621.3395

WIRING DIAGRAM



LEGEND

3"	CONDUIT CONTAINING CABLE WITH SIZE
	CABLE
X-Xc	MULTI-CONDUCTOR CABLE #16 AWG (UNLESS OTHERWISE INDICATED)
C.C.	VIDEO DETECTION CAMERA CABLE
X	PULL BOX WITH NUMBER
X	POST WITH NUMBER
X	POST WITH MAST ARM AND LUMINAIRE
X	SIGNAL HEAD WITH NUMBER
	SIGNAL CONTROLLER
	POWER SOURCE
	LIGHTING CONTROLLER
PS	POWER SUPPLY
UPS	UNINTERRUPTIBLE POWER SUPPLY
	ILLUMINATED STREET SIGN
	PEDESTRIAN PUSH BUTTON
	MICROWAVE DETECTION CAMERA

STATE OF MISSOURI
TYSON WILLIAM KING
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REGISTERED PROFESSIONAL ENGINEER

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DATE PREPARED
4/8/2024

ROUTE	STATE
50	MO
DISTRICT	SHEET NO.
CD	66

COUNTY
OSAGE

JOB NO.
J5P3574

CONTRACT ID.
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PROJECT NO.
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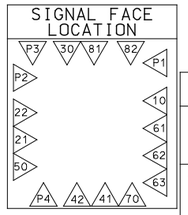
ROUTE 50 AND ROUTE CC
INTERSECTION

SIGNAL PLAN
SHEET 5 OF 19

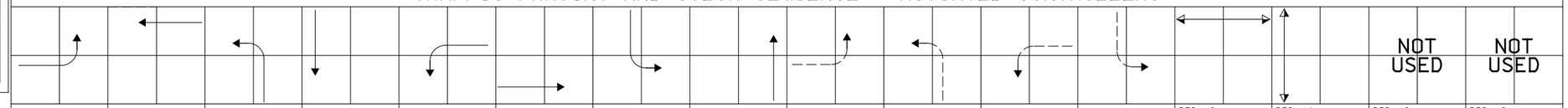
$FILE$ $TIME$ $DATE$

SIGNAL FACE LOCATION

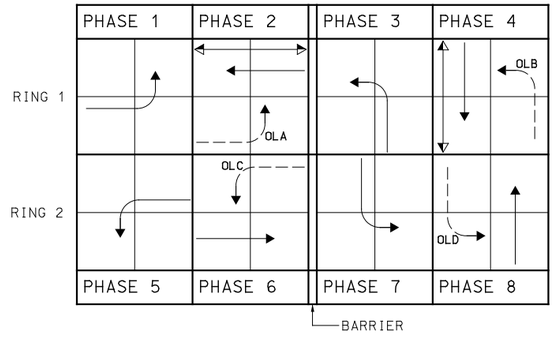


N

TRAFFIC PHASING AND COLOR SEQUENCE – ACTUATED CONTROLLERS



	PHASE Ø1	PHASE Ø2	PHASE Ø3	PHASE Ø4	PHASE Ø5	PHASE Ø6	PHASE Ø7	PHASE Ø8	OVERLAP A	OVERLAP B	OVERLAP C	OVERLAP D	PED Ø2	PED Ø4	PED Ø6	PED Ø8	
FACE NUMBERS	10	21 22	30	41 42	50	61 63 62	70	81 82	10	30	50	70	P1 P2	P3 P4			FACE NUMBERS
SIGNAL INDICATIONS R		R		R		R R		R					DW	DW			R
SIGNAL INDICATIONS RL	RL		RL		RL		RL										RL
SIGNAL INDICATIONS Y		Y		Y		Y Y		Y									Y
SIGNAL INDICATIONS YL	YL		YL		YL		YL										YL
SIGNAL INDICATIONS FYL									FYL	FYL	FYL	FYL	FDW	FDW			FYL
SIGNAL INDICATIONS G		G		G		G G		G					W	W			G
SIGNAL INDICATIONS L	L		L		L		L										L
DETECTOR ASSIGNMENTS	10	21 22	30	41 42	50	61 62 63	70	81 82									DETECTOR ASSIGNMENTS
DETECTOR ASSIGNMENTS (PEDS. ONLY)													P1 P2	P3 P4			
OVERLAP PARENT PHASES									1	3	5	7					



RING STRUCTURE

IF CALLED, ALL NON-CONFLICTING PHASES SHALL COMBINE AND TIME CONCURRENTLY. TIME TO BE DETERMINED BY THE ENGINEER AT SIGNAL TURN ON AND SET IN THE CONTROLLER BY THE CONTRACTOR.

LEGEND

- ACTUATED VEHICULAR MOVEMENT
- PARTIALLY RESTRICTED ACTUATED VEHICULAR MOVEMENT
- NON-ACTUATED VEHICULAR MOVEMENT
- PARTIALLY RESTRICTED NON-ACTUATED VEHICULAR MOVEMENT
- ACTUATED PEDESTRIAN MOVEMENT
- NON-ACTUATED PEDESTRIAN MOVEMENT
- VEHICLE STOPPED
- FDW — FLASHING DON'T WALK
- R/W — RIGHT OF WAY INTERVAL
- DW — DON'T WALK
- YR† — YELLOW RIGHT ARROW
- RT. — GREEN RIGHT ARROW
- W — WALK
- LY — YL — YELLOW LEFT ARROW
- L — GREEN LEFT ARROW
- S — GREEN STRAIGHT AHEAD ARROW
- G — CIRCULAR GREEN
- Y — CIRCULAR YELLOW
- R — CIRCULAR RED
- Ø — TRAFFIC PHASE
- AO — ALL OTHERS
- FR — FLASHING RED
- FY — FLASHING CIRCULAR YELLOW
- FYA — FLASHING YELLOW ARROW
- FYL — FLASHING YELLOW LEFT ARROW
- FYR — FLASHING YELLOW RIGHT ARROW

FLASHING OPERATION	
ROUTE 50	FR
ROUTE CC	FR

CONTROLLER TYPE	NEMA 8Ø

TRAFFIC SIGNAL CONTROL OPERATION
INTERSECTION OF
ROUTE 50
WITH ROUTE CC

STATE OF MISSOURI
TYSON WILLIAM KING
NUMBER PE-2008002177
REGISTERED PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED, AND DATED ELECTRONICALLY

DATE PREPARED 4/8/2024

ROUTE	STATE
50	MO
DISTRICT	SHEET NO.
CD	67

COUNTY: OSAGE

JOB NO.: J5P3574

CONTRACT ID.: .

PROJECT NO.: .

BRIDGE NO.: .

DESCRIPTION	DATE
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SIGNAL PLAN
SHEET 6 OF 19

$FILE$ $TIME$ $DATE$

CLASS 1 PULLBOX
STA. 687+54.77
52.86' RT
(NO DIRECT PAY)

STREET NAME SIGN "C"

690

11' 12'

ADT = 2750
DESIGN SPEED = 25 MPH

TECHNOLOGY DR ℄

ROUTE 50 ℄

ADT = 6000
DESIGN SPEED = 45 MPH
←715' TO SIGNAL @ HWY CC

12' 12' 12'

DET. ZONE 10
DET. ZONE 11
DET. ZONE 61

START STA 1+00.00

1-F.O.C.IN PR. CONDUIT TO ROUTE CC

TO AMEREN POWER SOURCE NEAR STA. 685+50.0

1-F.O.C.IN PR. CONDUIT TO ROUTE CC

R10-15

STREET NAME SIGN "A"

STREET NAME SIGN "C"

EX. R/W

DET. ZONE 21

12' 12'

ADT = 4500
DESIGN SPEED = 45 MPH
~~NO UPSTREAM SIGNAL~~

DYNAMIC SIGNAL WARNING FLASHER ASSEMBLY

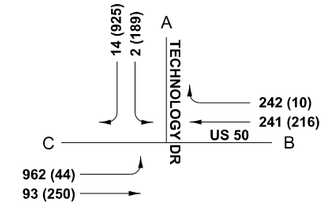
625' TO STOP BAR

BE PREPARED TO STOP

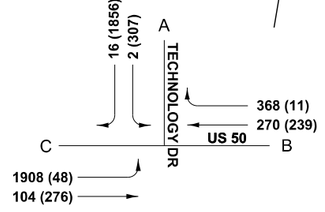
W3-4

TRAFFIC SIGNALS LEGEND

- CONTROLLER
- CONTROLLER (EXISTING)
- JCT JUNCTION BOX
- POWER SUPPLY
- WOOD POST
- SIGNAL HEAD (OPT LIM CONV)
- SIGNAL HEAD (OPT LIM)
- SIGNAL HEAD (PEDESTRIAN)
- SIGNAL HEAD (STANDARD)
- MICROWAVE DETECTION CAMERA
- 360-DEGREE DETECTION CAMERA
- PUSH BUTTON DETECTOR
- PREFORMED PULL BOX TYPE 1
- PREFORMED PULL BOX TYPE 2
- CONCRETE PULL BOX TYPE 1
- CONCRETE PULL BOX TYPE 2
- ITS PULL BOX TYPE 2
- ITS PULL BOX TYPE 5
- DET. ZONE VIDEO DETECTION ZONE
- 21 VIDEO DETECTOR NUMBER
- 6 X 6 LOOP DETECTOR
- 6 X 15 LOOP DETECTOR
- 30 X 6 LOOP DETECTOR
- CONDUIT MEDIAN
- CONDUIT PUSHED
- CONDUIT BRIDGE
- CONDUIT EXISTING
- CONDUIT TRENCHED
- SPAN WIRE
- MAST ARM - TYPE A BASE
- MAST ARM - TYPE C BASE
- MAST ARM - TYPE F BASE



(2025) DHV: A.M. (P.M.)



(2045) DHV: A.M. (P.M.)

SCALE
0 20 40 60

SIGNAL PLAN
SHEET 7 OF 19

$FILE$ $TIME$ $DATE$

STATE OF MISSOURI
TYSON WILLIAM KING
NUMBER PE-2008002177
LICENSED PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED, AND DATED ELECTRONICALLY

DATE PREPARED
4/8/2024

ROUTE	STATE
50	MO
DISTRICT	SHEET NO.
CD	68

COUNTY
OSAGE

JOB NO.
J5P3574

CONTRACT ID.
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PROJECT NO.
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BRIDGE NO.
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DESCRIPTION	DATE
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MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

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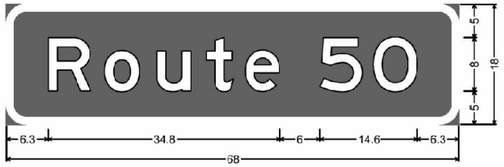
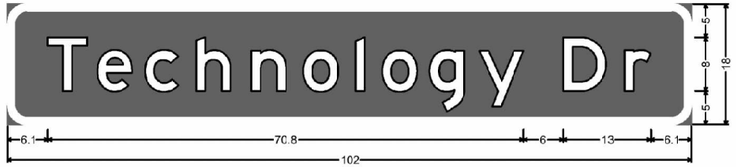
SIGN "A"



3.0" Radius, 1.0" Border, White on Green;
"Route", E; "50", E;

SIGN "C"



3.0" Radius, 1.0" Border, White on Green;
"Technology", E; "Dr", E;

| POST NUMBER | PULL BOX NUMBER | LOCATION: APPROACH | LOCATION: STATION | LOCATION: OFFSET | BASE: A: 9 | A: 9.5 | A: 10 | A: 10.5 | A: 11 | A: 12 | B: 9 | B: 9.5 | B: 10 | B: 10.5 | B: 11 | B: 12 | C | CONCRETE** (CU. YDS.) | PULL BOX: PREFORMED: CLASS 1 | CLASS 2 | CLASS 3 | CONCRETE: CLASS 5 | STANDARD | DOUBLE, TYPE A | DOUBLE, TYPE B | DRAIN TYPE*: I | II: A | B | C | TOP MOUNT POST: 4 FT. | 8 FT. | 15 FT. | TYPE C & CL: ARM LENGTH: A | A | A | SIGNAL SPACING (1): B | C | D | D | SIGN SPACING (1): B | C | D | D' | TYPE B & BL: ARM LENGTH: E | K | E | K | E | K | LEFT ARM E: SIGNAL SPACING (1): F | G | H | H' | SIGN SPACING (1): F | G | H | H' | RIGHT ARM K: SIGNAL SPACING (1): L | M | N | N' | SIGN SPACING (1): L | M | N | N' | INCLUDED ANGLE | LUMINAIRE BRACKET ARM*: 8 FT. | 10 FT. | 12 FT. | 15 FT. |
|---|---|---

CONDUIT

FROM	TO	CTR. TO CTR. DIST.	LOOP DETECT	TRENCHED			PUSHED			MEDIAN			ON STRUCTURE			REMARKS
			1"	2"	3"	4"	2"	3"	4"	2"	3"	4"	2"	3"	4"	
SOURCE	SUPPLY	572		(579)												NO DIRECT PAY
SUPPLY	▶◀	113		124												
SUPPLY	1	99		101												
▶◀	1	17			42											2 @ 14 ' EACH
1	2	95						93								
2	①	15			19											
2	3	128						126								
3	②	11			13											
3	③	11			13											
1	4	85			83											
4	④	11			15											
16	17	271		269												
17	▶◀	29		27												
3	5	131		129												
5	6	521		519												
6	⑤	24		26												
SUBTOTALS				1195	185			219								
PAY TOTALS				1200	190			220								

CABLE

FROM	TO	CTR. TO CTR. DIST.	POWER		CONTROL				LUMINAIRE		DETECTOR		FIBER	RADAR CABLE (1)	REMARKS
			1c #10	1c #8	2c #16	5c #16	7c #16	3c #16	CONTROL 2c #12	POLE & BRACKET 1c #10	1c-#14 IN DUCT	2c-#14 LEAD IN	48 FIBER SINGLE MODE		
SOURCE	SUPPLY	572	(1779)												3 @ 593' EACH, NO DIRECT PAY
SUPPLY	▶◀	124		435											3 @ 45' EACH
▶◀	①	164					213								F-21
▶◀	①	164					177								F-22
▶◀	①	164				174									P1
▶◀	①	164			173										PUSH BUTTON
SUPPLY	①	246							246	90					LUMINAIRE
▶◀	①	164												209	MICROWAVE RADAR
▶◀	②	292				302									P2
▶◀	②	292			301										PUSH BUTTON
▶◀	③	292				302									P3
▶◀	③	292			301										PUSH BUTTON
▶◀	④	150					220								F-10
▶◀	④	150					208								F-11
▶◀	④	150					211								F-41
▶◀	④	150					223								F-42
▶◀	④	150					193								F-61
▶◀	④	150					184								F-62
▶◀	④	150				160									P4
▶◀	④	150			159										PUSH BUTTON
SUPPLY	④	232							232	90					LUMINAIRE
SUPPLY	④	232							232	90					LUMINAIRE
▶◀	④	150												214	MICROWAVE RADAR (MAST ARM K)
▶◀	④	150												203	MICROWAVE RADAR (MAST ARM E)
▶◀	⑤	969					992								DYNAMIC FLASHER
▶◀	▶◀												928		ROUTE CC TO TECHNOLOGY DR
SUBTOTALS			435	934	938	2621			710	270			928		
PAY TOTALS			460	990	990	2760			750	290			980		INCLUDES 5% FOR SNAKING

(1) ALL POWER, SENSOR, AND COMMUNICATION CABLES FOR THE PROPOSED MICROWAVE DETECTION SYSTEM ARE INCIDENTAL TO THE MICROWAVE DETECTION SYSTEM - COMPLETE. NO SEPARATE PAYMENT WILL BE MADE.

ROUTE 50 AND TECHNOLOGY DR.

INTERSECTION

SIGNAL PLAN
SHEET 9 OF 19

$FILE$ $TIME$ $DATE$

STATE OF MISSOURI
TYSON WILLIAM KING
NUMBER PE-2008002177
REGISTERED PROFESSIONAL ENGINEER

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DATE PREPARED
4/8/2024

ROUTE	STATE
50	MO
DISTRICT	SHEET NO.
CD	7.0

COUNTY
OSAGE

JOB NO.
J5P3574

CONTRACT ID.
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Phone: 314.621.3395

POWER SUPPLY

LOCATION			POWER SUPPLY ASSEMBLY		CIRCUIT BREAKER TRIP RATING*				LIGHTING CONTROL * (ON POWER SUPPLY)		SERVICE POLE	
					CONTROLLER		POWER SUPPLY DISCONNECT					
							MAIN BREAKER					
APPROACH	STATION	OFFSET			AUXILIARY BREAKER	AUXILIARY BREAKER	SIGNALS	LIGHTING	120 VOLT CONTROL CABINET	MAIN BREAKER	CONTRACT FURNISH	UTILITY COMPANY
ROUTE 50	689+42.61	33.38' RT	1(5)		15 Amps	40 Amps	100 Amps	100 Amps	1(5)	30 Amps	Cl. Ft.	
					Amps	Amps	Amps	Amps		Amps	Cl. Ft.	

CONTROLLER ASSEMBLY AND AUXILIARY EQUIPMENT

LOCATION			SYSTEM MASTER (CLOSED LOOP)		ACTUATED		ON-OFF* SWITCH		COORDINATION INTERFACE *						TIME * CLOCK	NEMA CABINET TYPE *			170 CABINET TYPE *		170 SOFTWARE *	
							TYPE		12C/7C HARDWIRE (1)		TIME BASE	CLOSED LOOP		FIBER								
APPROACH	STATION	OFFSET	NEMA	170	NEMA	170	I	II	MASTER	LOCAL		NEMA	170			E	EV	DOUBLE	332	336S	BITRAN	WAPITI
ROUTE 50	690+23.34	37.15' RT			1(3)(4)												1(4)					

DETECTOR SCHEDULE

DETECTOR NUMBER	TYPE				
	PUSH BUTTON (6)	INDUCTION LOOP			VIDEO DETECTION (3)
		STANDARD	DELAY/ EXTEND *	CALL UNIT *	
RADAR DETECTION					
P1	1				
P2	1				
P3	1				
P4	1				
TOTAL	4				

		NEMA DETECTOR ASSIGNMENT (2) CARD POSITION							
		1	2	3	4	5	6	7	8
CHANNEL	1			RADAR DETECTION (3)					
	2								

(1) MODOT "D" PLUG SHALL BE WIRED INTO ALL NEMA CONTROLLERS. ALL ALARMS AND PRE-EMPTIONS SHALL BE TERMINATED ON THE CABINET BACK PANEL.

(2) PAYMENT IS MADE FOR THE NUMBER OF 2-CHANNEL DETECTOR CARDS AS SHOWN BELOW THE ASSIGNMENT CHART.

(3) THE CONTRACTOR SHALL FURNISH AND INSTALL A COMPLETE RADAR DETECTION SYSTEM WITH MOUNTING HARDWARE/BRACKETS, TERMINATION PANELS, POWER AND COMMUNICATION CABLES, PROCESSORS, AND MISCELLANEOUS EQUIPMENT NECESSARY FULLY OPERATIONAL RADAR DETECTION SYSTEM FOR BOTH STOP BAR AND ADVANCED VEHICLE DETECTION. THIS WILL BE A COMPLETE UNIT WITH ALL COSTS INCLUDED. RADAR DETECTION INPUTS INTO CONTROLLER SHALL BE VIA TS/2 PORTS.

(4) THE CONTRACTOR SHALL PROVIDE AN ETHERNET ENABLED NEMA TS/2 SIGNAL CONTROLLER. CABINET SETUP SHALL BE TS/2 TYPE 1 WITH SDLC CONNECTORS FOR APPLICABLE SIGNAL ELEMENTS. THE SIGNAL CONTROLLER SHALL BE LISTED ON THE CURRENT MODOT APPROVED PRODUCT LIST OR BE AN EQUIVALENT APPROVED BY MODOT DISTRICT STAFF.

(5) THE CONTRACTOR SHALL PROVIDE AND INSTALL A PAD MOUNTED POWER SUPPLY FOR 120V SIGNAL AND 240V, 4 CIRCUIT LIGHTING CONTROLLER. THE CONTRACTOR SHALL ALSO PROVIDE AND INSTALL AN UNINTERRUPTIBLE POWER SUPPLY IN THE SIGNAL POWER SUPPLY AND LIGHTING CONTROLLER CABINET. SEE DETAILS INCLUDED IN THESE PLANS AND SPECIAL PROVISIONS FOR FURTHER INFORMATION AND REQUIREMENTS.

(6) EACH PUSH BUTTON SHALL BE CONSIDERED PART OF AN INDIVIDUAL ACCESSIBLE PEDESTRIAN SIGNAL (APS) UNIT. WHERE PUSH BUTTONS ARE SHOWN IN THE PLANS, AN INDIVIDUAL APS UNIT SHALL BE INSTALLED. THE PEDESTRIAN PUSH BUTTONS SHALL BE MOUNTED 42" ABOVE THE PEDESTRIAN PATH, AND WITHIN A 10" SIDE REACH OF ADJACENT LEVEL LANDING AREA. SEE SPECIAL PROVISIONS FOR DETAILED INFORMATION.

NEMA LOAD SWITCH ASSIGNMENTS

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
Ø1 EBL	Ø2 WB	N/U	Ø4 SB	N/U	Ø6 EB	N/U	N/U	SBR OLA	N/U	N/U	N/U	2P N. SIDE	4P E. SIDE	N/U	N/U

ROUTE 50 AND TECHNOLOGY DR.

INTERSECTION

SIGNAL PLAN
SHEET 10 OF 19

$FILE$ $TIME$ $DATE$

STATE OF MISSOURI
TYSON WILLIAM KING
NUMBER PE-2008002177
REGISTERED PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED, AND DATED ELECTRONICALLY

DATE PREPARED 4/8/2024

ROUTE	STATE
50	MO
DISTRICT	SHEET NO.
CD	7-1

COUNTY OSAGE

JOB NO. J5P3574

CONTRACT ID. .

PROJECT NO. .

BRIDGE NO. .

DESCRIPTION | DATE

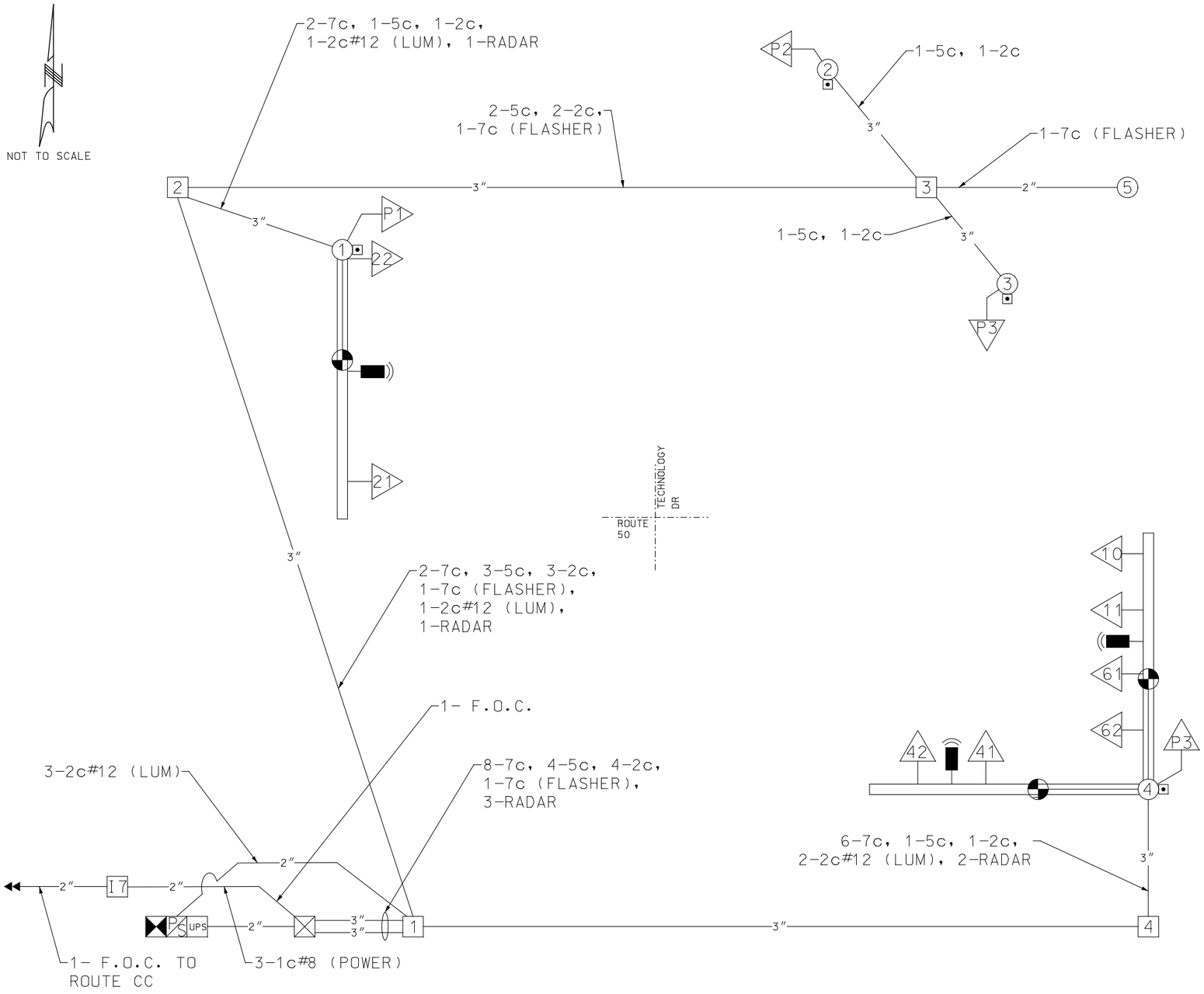
IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

LOCHMUELLER GROUP
411 North 10th Street, Suite 200
St. Louis, MO 63101
Phone: 314.621.3395

WIRING DIAGRAM



LEGEND

—3"—	CONDUIT CONTAINING CABLE WITH SIZE
———	CABLE
X-Xc	MULTI-CONDUCTOR CABLE #16 AWG (UNLESS OTHERWISE INDICATED)
C.C.	VIDEO DETECTION CAMERA CABLE
X	PULL BOX WITH NUMBER
X	POST WITH NUMBER
X	POST WITH MAST ARM AND LUMINAIRE
X	SIGNAL HEAD WITH NUMBER
	SIGNAL CONTROLLER
	POWER SOURCE
	LIGHTING CONTROLLER
PS	POWER SUPPLY
UPS	UNINTERRUPTIBLE POWER SUPPLY
	ILLUMINATED STREET SIGN
	PEDESTRIAN PUSH BUTTON
	MICROWAVE DETECTION CAMERA

ROUTE 50 AND TECHNOLOGY DR.

INTERSECTION

SIGNAL PLAN
SHEET 11 OF 19

$FILE$ $TIME$ $DATE$

STATE OF MISSOURI
TYSON WILLIAM KING
NUMBER PE-2008002177
REGISTERED PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED, AND DATED ELECTRONICALLY

DATE PREPARED
4/8/2024

ROUTE	STATE
50	MO
DISTRICT	SHEET NO.
CD	7.2

COUNTY
OSAGE

JOB NO.
J5P3574

CONTRACT ID.
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PROJECT NO.
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BRIDGE NO.
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DESCRIPTION	DATE
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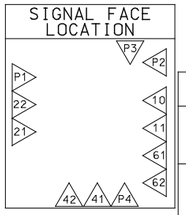
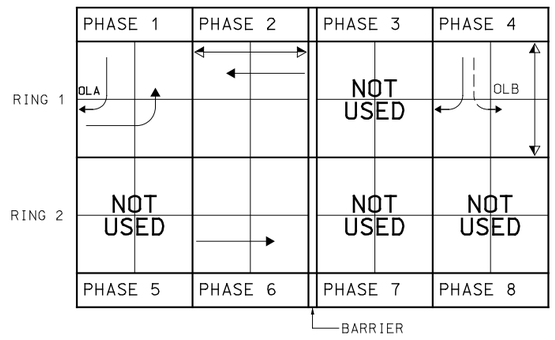


TRAFFIC PHASING AND COLOR SEQUENCE – ACTUATED CONTROLLERS

	PHASE Ø1	PHASE Ø2	PHASE Ø3	PHASE Ø4	PHASE Ø5	PHASE Ø6	PHASE Ø7	PHASE Ø8	OVERLAP A	OVERLAP B	OVERLAP C	OVERLAP D	PED Ø2	PED Ø4	PED Ø6	PED Ø8	
FACE NUMBERS	10	21 22	NOT USED	41 42	NOT USED	61	NOT USED	NOT USED	42	41	NOT USED	NOT USED	P1	P3	NOT USED	NOT USED	FACE NUMBERS
	11					62							P2	P4			
SIGNAL INDICATIONS R		R R		RL R		R							DW	DW			R
SIGNAL INDICATIONS RL	RL																RL
SIGNAL INDICATIONS Y		Y Y		YL		Y											Y
SIGNAL INDICATIONS YL	YL																YL
SIGNAL INDICATIONS FYL										FYL			FDW	FDW			FYL
SIGNAL INDICATIONS G		G											W	W			G
SIGNAL INDICATIONS L	L																L
SIGNAL INDICATIONS YR†				YR†					YR†								YR†
SIGNAL INDICATIONS R†				R†					R†								R†
SIGNAL INDICATIONS S		S				S											S
SIGNAL INDICATIONS (SIGNAL INDICATIONS)																	SIGNAL INDICATIONS
DETECTOR ASSIGNMENTS	10 11	21 22		41 42		61 62											DETECTOR ASSIGNMENTS
DETECTOR ASSIGNMENTS (PEDS. ONLY)													P1 P2	P3 P4			
OVERLAP PARENT PHASES									1	3	5	7					



RING STRUCTURE

✳ LEADING PEDESTRIAN INTERVAL OF 3 SECONDS (MIN) SHALL BE PROGRAMMED FOR THE EAST LEG CROSSWALK

IF CALLED. ALL NON-CONFLICTING PHASES SHALL COMBINE AND TIME CONCURRENTLY. TIME TO BE DETERMINED BY THE ENGINEER AT SIGNAL TURN ON AND SET IN THE CONTROLLER BY THE CONTRACTOR.

LEGEND

- → — ACTUATED VEHICULAR MOVEMENT
- ⇢ — PARTIALLY RESTRICTED ACTUATED VEHICULAR MOVEMENT
- ▷ — NON-ACTUATED VEHICULAR MOVEMENT
- ⇢▷ — PARTIALLY RESTRICTED NON-ACTUATED VEHICULAR MOVEMENT
- → — ACTUATED PEDESTRIAN MOVEMENT
- ▷ — NON-ACTUATED PEDESTRIAN MOVEMENT
- ⊣ — VEHICLE STOPPED
- FDW — FLASHING DON'T WALK
- R/W — RIGHT OF WAY INTERVAL
- DW — DON'T WALK
- YR† — YELLOW RIGHT ARROW
- RT. — GREEN RIGHT ARROW
- W — WALK
- LY —YL — YELLOW LEFT ARROW
- L — GREEN LEFT ARROW
- S — GREEN STRAIGHT AHEAD ARROW
- G — CIRCULAR GREEN
- Y — CIRCULAR YELLOW
- R — CIRCULAR RED
- Ø — TRAFFIC PHASE
- AO — ALL OTHERS
- FR — FLASHING RED
- FY — FLASHING CIRCULAR YELLOW
- FYA — FLASHING YELLOW ARROW
- FYL — FLASHING YELLOW LEFT ARROW
- FYR — FLASHING YELLOW RIGHT ARROW

FLASHING OPERATION	
ROUTE 50	FR
TECHNOLOGY DR.	FR
CONTROLLER TYPE	NEMA 8Ø

TRAFFIC SIGNAL CONTROL OPERATION
INTERSECTION OF
ROUTE 50
WITH TECHNOLOGY DRIVE

SIGNAL PLAN
SHEET 12 OF 19

$FILE$ $TIME$ $DATE$

STATE OF MISSOURI
TYSON WILLIAM KING
NUMBER PE-2008002177
REGISTERED PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED, AND DATED ELECTRONICALLY

DATE PREPARED 4/8/2024

ROUTE	STATE
50	MO
DISTRICT	SHEET NO.
CD	13

COUNTY: OSAGE

JOB NO.: J5P3574

CONTRACT ID.: .

PROJECT NO.: .

BRIDGE NO.: .

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

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

LOCHMUELLER GROUP
411 North 10th Street, Suite 200
St. Louis, MO 63101
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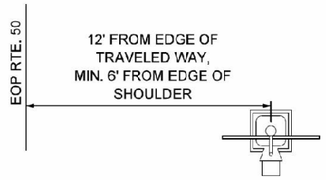
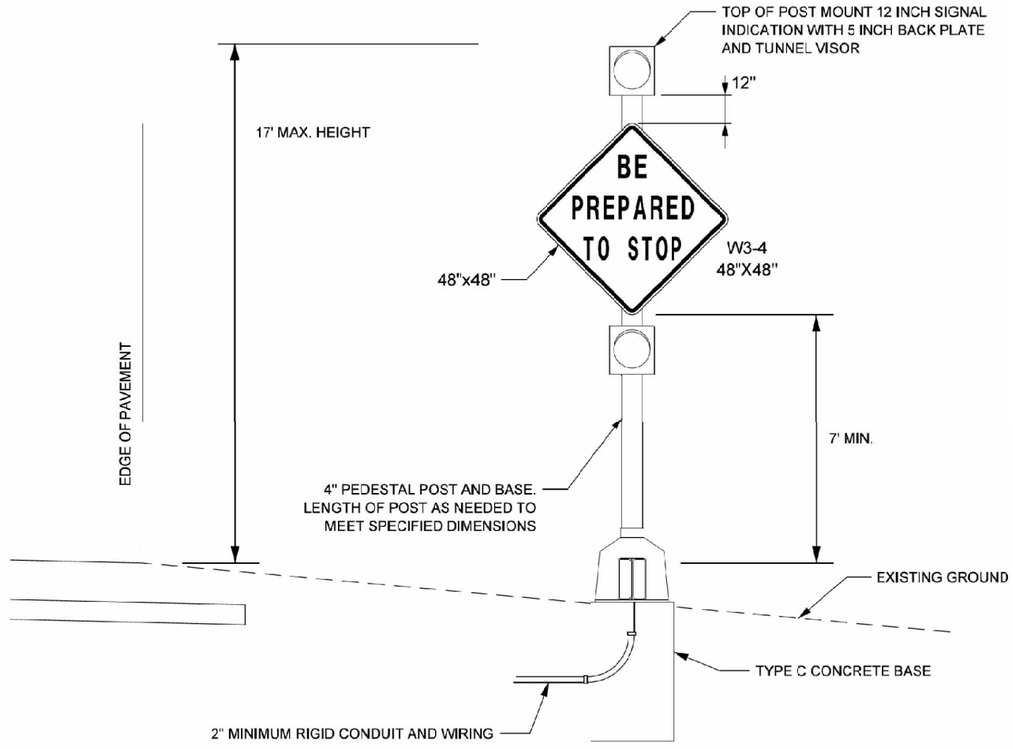


PLAN VIEW - SIGN & FLASHER LOCATIONS
(SIGNS 1, 2, 3, 4)



ADVANCED SIGN AND FLASHER DETAILS

NOTES:

1. THE PROPOSED SIGNAL CABINET INCLUDE ALL NECESSARY HARDWARE AND CONTROLLER PROGRAMMING AS RECOMMENDED BY THE CABINET AND CONTROLLER MANUFACTURER TO ALLOW FOR APPROPRIATE DYNAMIC SIGNAL WARNING FLASHER OPERATION.

2. EACH FLASHER/SIGN ASSEMBLY SHALL BE GROUNDED TO A GROUND ROD IN THE ADJACENT PULLBOX.

3. THE FLASHERS SHALL ACTIVATE DURING THE WESTBOUND GREEN PHASE AT A TIMEFRAME DIRECTED BY THE ENGINEER THROUGH THE YELLOW AND RED INTERVALS, TURNING OFF UPON WESTBOUND RETURN TO GREEN.

STATE OF MISSOURI
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REGISTERED PROFESSIONAL ENGINEER

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DATE PREPARED
4/8/2024

ROUTE	STATE
50	MO
DISTRICT	SHEET NO.
CD	74

COUNTY
OSAGE

JOB NO.
J5P3574

CONTRACT ID.
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PROJECT NO.
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BRIDGE NO.
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DESCRIPTION	DATE
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SIGNAL PLAN
SHEET 13 OF 19

$FILE$ $TIME$ $DATE$

TRAFFIC SIGNAL CABINET
ROUTE 50 @ ROUTE CC

DETECTION PROCESSOR

CAT-5E

UPS CONTROLLER

CAT-5E

CAT-5E

SIGNAL CONTROLLER

MMU

CAT-5E

DETECTION PROCESSOR

CAT-5E

RADAR DETECTION

x4

WALL-MOUNTED INTERCONNECT CENTER

BLUE TUBE

BLUE / BLUE
BLUE / ORANGE
BLUE / GREEN
BLUE / BROWN
BLUE / SLATE
BLUE / WHITE
BLUE / RED
BLUE / BLACK
BLUE / YELLOW
BLUE / VIOLET
BLUE / ROSE
BLUE / AQUA

ORANGE TUBE

GREEN TUBE

BROWN TUBE

BLUE TUBE

BLUE / BLUE
BLUE / ORANGE
BLUE / GREEN
BLUE / BROWN
BLUE / SLATE
BLUE / WHITE
BLUE / RED
BLUE / BLACK
BLUE / YELLOW
BLUE / VIOLET
BLUE / ROSE
BLUE / AQUA

ORANGE TUBE

GREEN TUBE

BROWN TUBE

48 SM FIBER CABLE WEST TO MODOT MAINTENANCE BLDG

48SM FIBER CABLE EAST TO TECHNOLOGY DR

KEY

- 360 DEGREE DETECTION CAMERA
- PATCH THROUGH FIBER OPTIC JUMPER
- FIBER OPTIC PIGTAIL
- BARE FIBER LEFT COILED IN SPLICE TRAY
- FUSION SPLICE
- PATCH PANEL MODULE
- ADVANCE RADAR DETECTOR
- NETWORK SWITCH

TRAFFIC SIGNAL CABINET
ROUTE 50 @ ROUTE CC

SIGNAL PLAN
SHEET 14 OF 19

$FILE$ $TIME$ $DATE$

STATE OF MISSOURI
TYSON WILLIAM KING
NUMBER PE-2008002177
REGISTERED PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED, AND DATED ELECTRONICALLY

DATE PREPARED
4/8/2024

ROUTE	STATE
50	MO
DISTRICT	SHEET NO.
CD	75

COUNTY
OSAGE

JOB NO.
J5P3574

CONTRACT ID.
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PROJECT NO.
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BRIDGE NO.
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DESCRIPTION	DATE
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Phone: 314.621.3395

TRAFFIC SIGNAL CABINET
ROUTE 50 @ ROUTE CC

DETECTION PROCESSOR

CAT-5E

UPS CONTROLLER

CAT-5E

RADAR DETECTION

x4

CAT-5E

SIGNAL CONTROLLER

MMU

CAT-5E

CAT-5E

DETECTION PROCESSOR

WALL-MOUNTED INTERCONNECT CENTER

BLUE TUBE		BLUE TUBE	
	BLUE / BLUE		BLUE / BLUE
	BLUE / ORANGE		BLUE / ORANGE
	BLUE / GREEN		BLUE / GREEN
	BLUE / BROWN		BLUE / BROWN
	BLUE / SLATE		BLUE / SLATE
	BLUE / WHITE		BLUE / WHITE
	BLUE / RED		BLUE / RED
	BLUE / BLACK		BLUE / BLACK
	BLUE / YELLOW		BLUE / YELLOW
	BLUE / VIOLET		BLUE / VIOLET
	BLUE / ROSE		BLUE / ROSE
	BLUE / AQUA		BLUE / AQUA
ORANGE TUBE		ORANGE TUBE	
GREEN TUBE		GREEN TUBE	
BROWN TUBE		BROWN TUBE	

48 SM FIBER CABLE WEST TO MODOT MAINTENANCE BLDG

48SM FIBER CABLE EAST TO TECHNOLOGY DR

KEY

- 360 DEGREE DETECTION CAMERA
- PATCH THROUGH FIBER OPTIC JUMPER
- FIBER OPTIC PIGTAIL
- BARE FIBER LEFT COILED IN SPLICE TRAY
- FUSION SPLICE
- PATCH PANEL MODULE
- ADVANCE RADAR DETECTOR
- NETWORK SWITCH

TRAFFIC SIGNAL CABINET
ROUTE 50 @ ROUTE CC

SIGNAL PLAN
SHEET 15 OF 19

$FILE$ $TIME$ $DATE$

STATE OF MISSOURI
TYSON WILLIAM KING
NUMBER PE-2008021771
REGISTERED PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED, AND DATED ELECTRONICALLY

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

DATE PREPARED: 4/8/2024

ROUTE	STATE
50	MO
DISTRICT	SHEET NO.
CD	76

COUNTY: OSAGE

JOB NO.: J5P3574

CONTRACT ID.: .

PROJECT NO.: .

BRIDGE NO.: .

DESCRIPTION	DATE
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MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
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NETWORK/SERVER ROOM
LINN MAINTENANCE

EXISTING CISCO 2960XR NETWORK SWITCH

TO SHO-ME TECH
DEMARC

CAT-5E

CAT-5E

CAT-5E

CAT-5E

TO BUILDING
INTERIOR

RACK-MOUNTED INTERCONNECT CENTER

BLUE / BLUE
BLUE / ORANGE
BLUE / GREEN
BLUE / BROWN
BLUE / SLATE
BLUE / WHITE
BLUE / RED
BLUE / BLACK
BLUE / YELLOW
BLUE / VIOLET
BLUE / ROSE
BLUE / AQUA

BLUE TUBE

ORANGE TUBE

GREEN TUBE

BROWN TUBE

48SM FIBER CABLE EAST TO
ROUTE CC

LINN MAINTENANCE BLDG

KEY

- 360 DEGREE DETECTION CAMERA
- PATCH THROUGH FIBER OPTIC JUMPER
- FIBER OPTIC PIGTAIL
- BARE FIBER LEFT COILED IN SPLICE TRAY
- FUSION SPLICE
- PATCH PANEL MODULE
- ADVANCE RADAR DETECTOR
- NETWORK SWITCH

STATE OF MISSOURI
TYSON WILLIAM KING
NUMBER PE-2008021777
REGISTERED PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED, AND DATED ELECTRONICALLY

DATE PREPARED
4/8/2024

ROUTE	STATE
50	MO
DISTRICT	SHEET NO.
CD	77

COUNTY
OSAGE

JOB NO.
J5P3574

CONTRACT ID.
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PROJECT NO.
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BRIDGE NO.
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DESCRIPTION	DATE
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MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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JEFFERSON CITY, MO 65102
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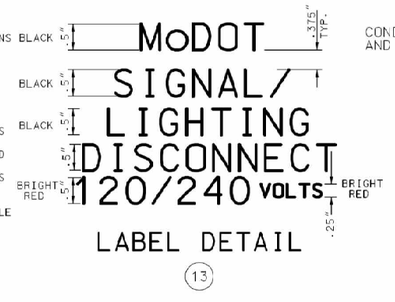
SIGNAL PLAN
SHEET 16 OF 19

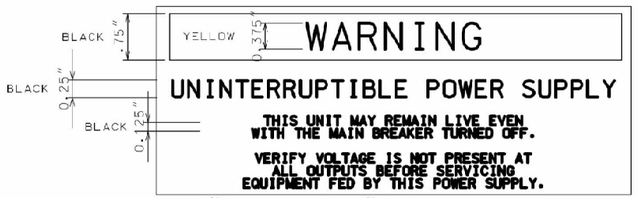
$FILE$ $TIME$ $DATE$

GENERAL NOTES:

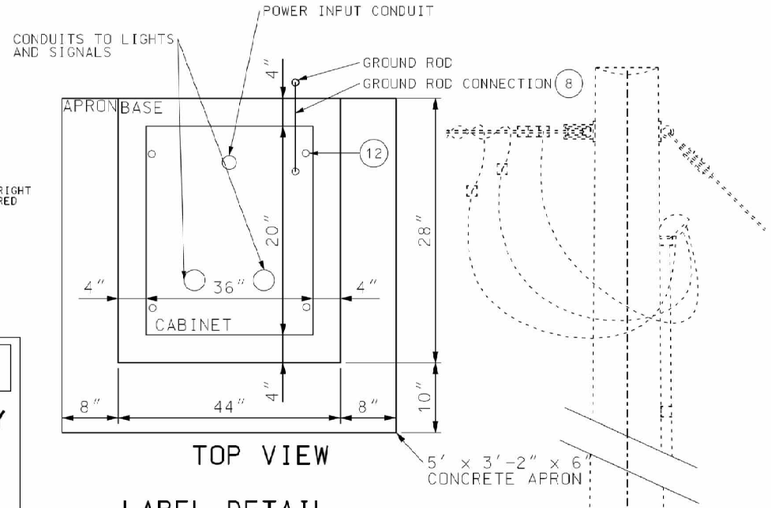
1. ALTERNATE CABINET DIMENSIONS WILL BE ALLOWED AS APPROVED BY THE ENGINEER. INTERIOR CABINET VOLUME SHALL BE EQUAL TO OR GREATER THAN THAT SHOWN ON PLANS AND PROPER CLEARANCES SHALL BE PROVIDED FOR ALL EQUIPMENT. CONCRETE BASE DIMENSIONS SHALL BE MODIFIED TO FIT THE CABINET SUPPLIER.
2. PLACEMENT OF ALL ITEMS SHALL BE APPROVED BY THE ENGINEER.
3. SCHEMATIC DIAGRAM SHALL BE MOUNTED ON INSIDE OF CABINET DOOR.
4. THE UTILITY SHALL BE NOTIFIED IN WRITING 30 DAYS PRIOR TO DATE SERVICE WILL BE REQUIRED.
5. ALL CABINET OPENINGS SHALL BE COVERED AND SEALED WITH LIFETIME SILICONE CAULK.
6. ALL MATERIALS REQUIRED EXCLUDING REFERENCE ITEMS AS SHOWN ON THE DRAWING SHALL BE INCLUDED IN PRICE BID FOR "PAD MOUNTED POWER SUPPLY AND LIGHTING CONTROLLER WITH UNINTERRUPTIBLE POWER SUPPLY." CABLE AND CONDUIT FROM POWER SUPPLY ASSEMBLY TO UTILITY COMPANY FACILITIES SHALL BE INCLUDED IN THE BID PRICE.
7. REFER TO PLAN SHEET DETAIL TO DETERMINE IF A UTILITY POLE OR PEDESTAL WILL BE REQUIRED.
8. CABINET SHALL BE LOCATED WITH A MINIMUM 36" CLEARANCE, FRONT, BACK, AND SIDES.
9. SEE CABINET MANUFACTURER FOR MOUNTING BASE DIMENSIONS AND ANCHOR BOLT LOCATIONS.

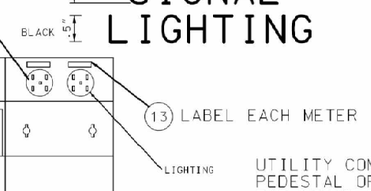


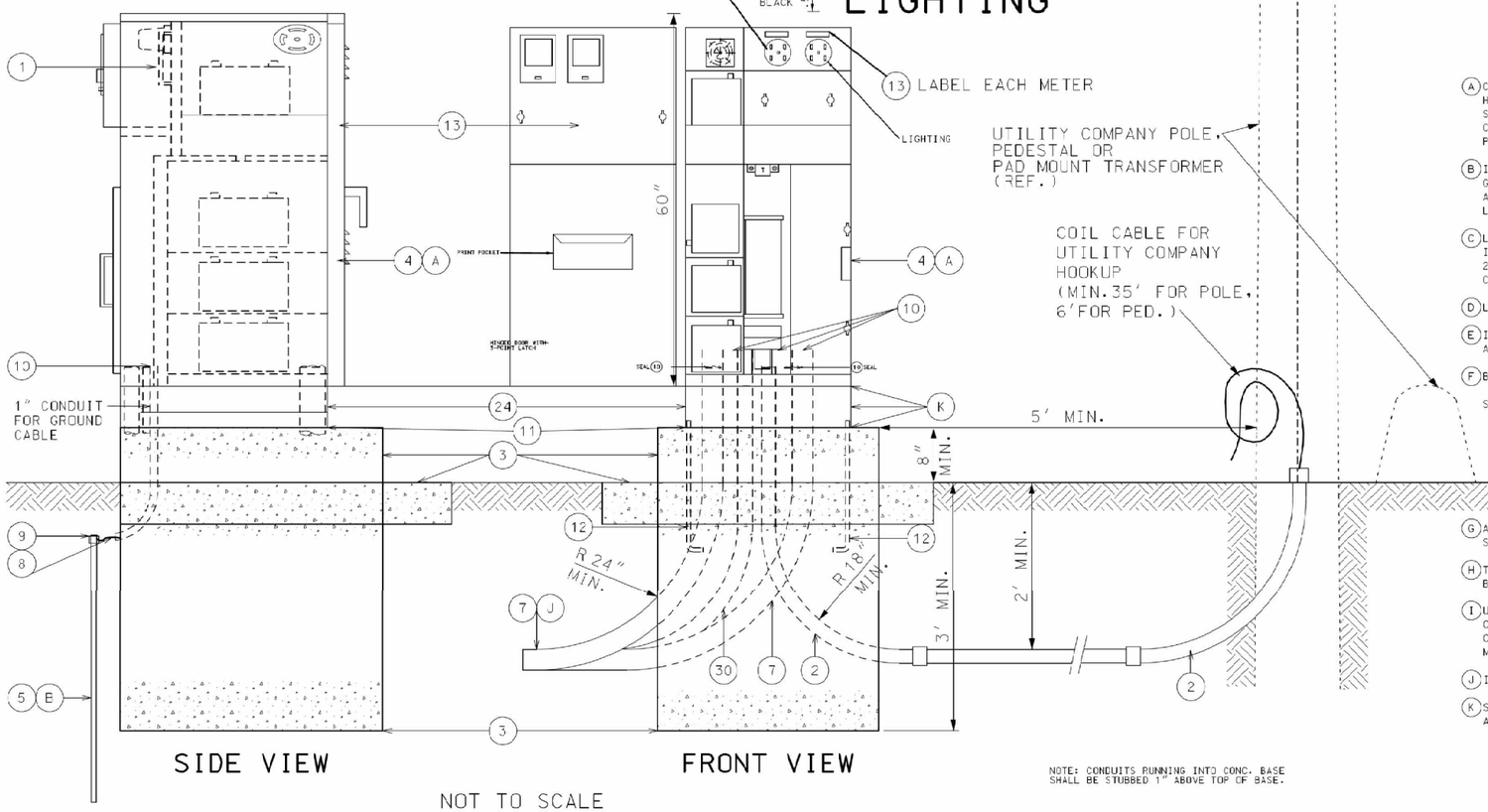
LABEL DETAIL (13)



5" x 3 1/2" YELLOW LABEL
(UNDER SIGNAL METER ON LOWER DOOR)







NOT TO SCALE

DISCLAIMER
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LIST OF MATERIALS	
ITEM	DESCRIPTION
1	METER SOCKET, 200 AMP, WITH LEVER TEST BYPASS
2	RIGID STEEL CONDUIT. 2" MIN. TO UTILITY CO. FACILITIES
3	CLASS B CONCRETE. 1.3 cu. yd. (MIN.)
4	NEMA 3R. DUST-TIGHT. WATERTIGHT CABINET
5	GROUND ROD. 5/4" DIA. x 8' MIN. (MIN. 8' IN SOIL)
6	PHOTOELECTRIC SWITCH AND SOCKET. 105/285 V.. 1000 WATT
7	2" MIN. SCH 40 PVC CONDUIT (REF.)
8	#2 AWG MIN.. 600 V.. GROUND CABLE
9	EXOTHERMIC WELD WIRE TO ROD
10	PLIABLE SEALANT
11	LIFETIME SILICONE CAULK
12	ANCHOR BOLTS. 5/8-11 x 18" LONG BOLTS. HOT DIP GALVANIZED. 4 REQUIRED
13	WEATHERPROOF ADHESIVE LABEL. VINYL RAISED LETTERING (OR EQUIVALENT. SEE DETAIL)
14	INSULATED TERMINAL BLOCK
15	2-POLE. 20 AMP. 120V COIL LIGHTING CONTACTOR
16	2-POLE. 650 VOLT LIGHTNING ARRESTER
17	1-POLE. 15 AMP. TYPE B BREAKER TO PHOTOELECTRIC SWITCH
18	MANUAL-AUTO SWITCH
19	INSULATED GROUNDABLE NEUTRAL. 100 AMP
20	2-POLE. TYPE A MAIN BREAKER
21	2-POLE. 15 AMP (MIN). TYPE A BREAKERS TO LIGHTING CIRCUITS *
22	1-POLE. 15 AMP (MIN.). TYPE A BREAKER TO SIGNALS *
23	#2 AWG MIN.. 600 V.. POWER CABLE *
24	6" PEDESTAL RISER
25	12V GEL CELL BATTERIES IN SERIES (4 MINIMUM)
26	30A GENERATOR MALE BASE
27	INVERTER (1100VA MINIMUM)
28	1-POLE. 40 AMP. TYPE B UPS BREAKER
29	1-POLE. 15 AMP. TYPE B FAN BREAKER
30	1 ½" CONDUIT OUT TO SIGNAL CABINET (CAT 5E AND CONTROL WIRING)
*	SEE PLANS FOR SIZE

NOTES

(A) CABINET WITH POWER SUPPLY SHALL BE ALUMINUM OR STAINLESS STEEL. ALL HARDWARE, HINGES, CATCHES, ETC. SHALL BE STAINLESS STEEL. METER SOCKET AND OTHER EQUIPMENT AND MATERIALS SHALL BE U.L. APPROVED AND CONFORM TO THE REQUIREMENTS OF THE UTILITY COMPANY OR MUNICIPALITY PROVIDING POWER.

(B) IF SUBSURFACE CONDITIONS EXIST WHICH PROHIBIT THE PLACEMENT OF THE GROUND ROD IN A VERTICAL POSITION, THE ROD MAY BE DRIVEN AT AN OBLIQUE ANGLE NOT TO EXCEED 45 DEGREES FROM VERTICAL OR BURIED IN A TRENCH AT LEAST 30 INCHES DEEP. CONNECTION TO GROUND ROD SHALL BE CAD WELDED.

(C) LIGHTING SYSTEM VOLTAGE AS SPECIFIED ON PLANS (120 OR 240 VOLTS). IF LIGHTS ARE TO BE MOUNTED ON SIGNAL POSTS, VOLTAGE MUST BE 120 VOLTS. 240 VOLT LIGHTS ARE NOT TO BE MOUNTED ON OR WIRED THROUGH SIGNAL POSTS, CONDUIT, OR PULL BOXES.

(D) LOCATE PHOTOELECTRIC SWITCH AT CENTER OF WINDOW.

(E) IF FOR REASONS OF VOLTAGE DROP A WIRE SIZE IS SPECIFIED LARGER THAN #2 AWG, A LARGER TERMINAL BLOCK SHALL BE INSTALLED FOR THAT CIRCUIT.

(F) BREAKER SIZING:

SIZE (AMPS)	240V TOTAL CIRCUIT LOAD (WATTS)	120V TOTAL CIRCUIT LOAD (WATTS)
15	0-2800	0-1390
20	2850-3700	1400-1850
25	3750-4600	1860-2320
30	4650-5500	2330-2780
35	5550-6500	-
40	6550-7400	-

CIRCUIT LOAD INCLUDES LOAD DUE TO LINE LOSS, LAMP, AND BALLAST LOAD.

(G) ALL CIRCUIT BREAKERS SHALL CONFORM TO SECTION 901.4 OF THE STANDARD SPECIFICATIONS.

(H) TAPE BATTERY TEMPERATURE SENSOR TO THE SIDE OF EITHER BATTERY #2 OR BATTERY #3. SENSOR SHOULD BE TO THE MIDDLE OF THE BATTERY BANK.

(I) UTILITY COMPANY SHALL DECIDE IF LIGHTNING ARRESTORS ARE TO BE CONNECTED ON THE LINE SIDE OR THE LOAD SIDE OF THE METER. THE UTILITY COMPANY SHALL ALSO DETERMINE WHERE THE LIGHTNING ARRESTOR SHALL BE MOUNTED.

(J) INCLUDE ADDITIONAL CONDUITS AS NECESSARY FOR AUXILIARY CIRCUITS.

(K) SEE CABINET MANUFACTURER FOR MOUNTING BASE DIMENSIONS AND ANCHOR BOLT LOCATIONS.

SPECIAL SHEETS
PAD MOUNTED 120V/240V POWER SUPPLY & LIGHTING CONTROLLER W/ UNINTERRUPTIBLE POWER SUPPLY
SHEET 1 OF 3

SIGNAL PLAN
SHEET 17 OF 19

STATE OF MISSOURI
TYSON WILLIAM KING
NUMBER PE-2008002177
REGISTERED PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED, AND DATED ELECTRONICALLY

DATE PREPARED
4/8/2024

ROUTE	STATE
50	MO
DISTRICT	SHEET NO.
CD	78

COUNTY
OSAGE

JOB NO.
J5P3574

CONTRACT ID.
.

PROJECT NO.
.

BRIDGE NO.
.

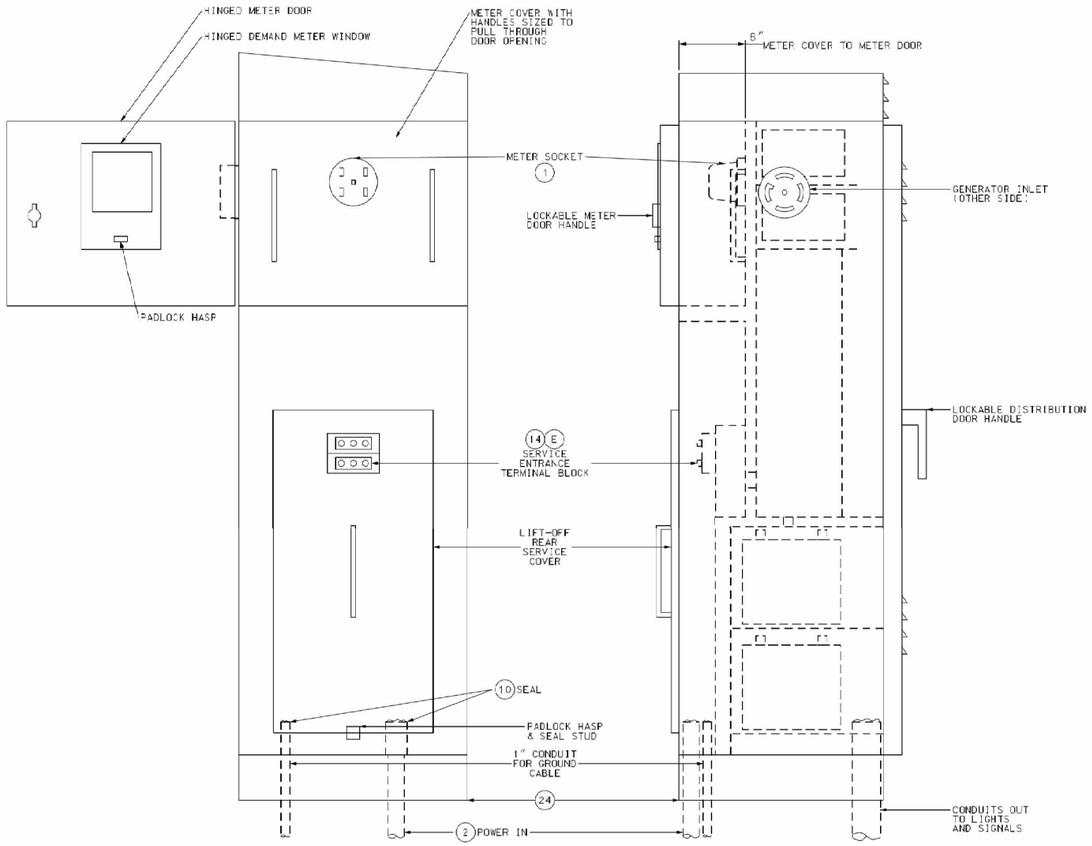
DATE	DESCRIPTION
.	.

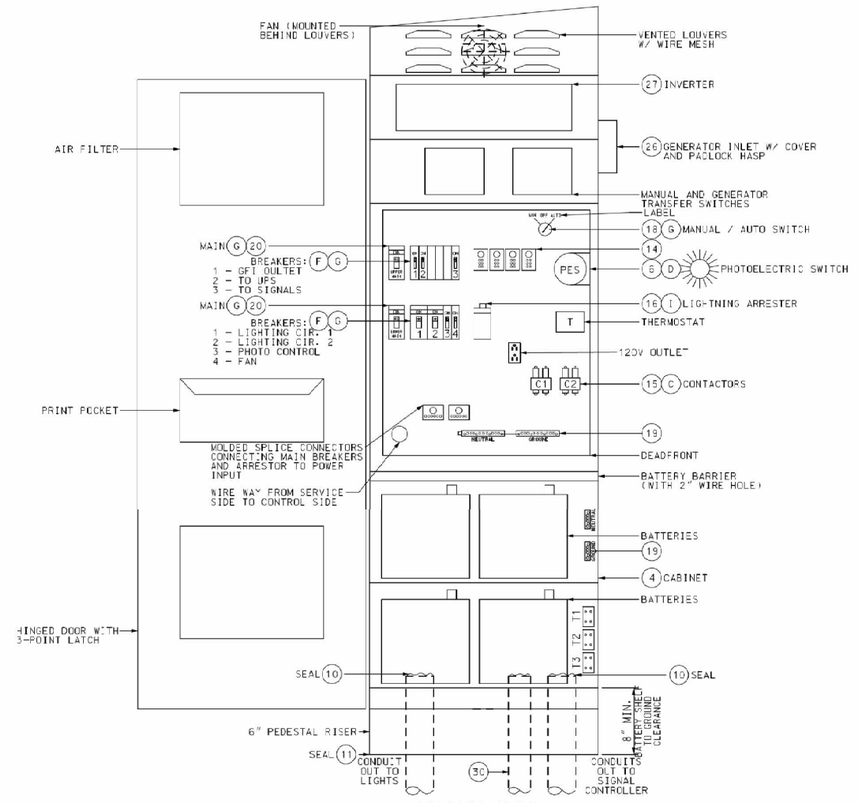
IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

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

LOCHMUELLER GROUP
411 North 10th Street, Suite 200
St. Louis, MO 63101
Phone: 314.621.3395

$FILE$ $TIMES$ $DATE$





EQUIPMENT LAYOUT

NOT TO SCALE

LIST OF MATERIALS	
ITEM	DESCRIPTION
1	METER SOCKET, 200 AMP, WITH LEVER TEST BYPASS
2	RIGID STEEL CONDUIT, 2" MIN. TO UTILITY CO. FACILITIES
3	CLASS B CONCRETE, 1.3 cu. yd. (MIN.)
4	NEMA 3R, DUST-TIGHT, WATERTIGHT CABINET
5	GROUND ROD, 3/4" DIA. x 8' MIN. (MIN. 8' IN SOIL)
6	PHOTOELECTRIC SWITCH AND SOCKET, 105/285 V., 1000 WATT
7	2" MIN. SCH 40 PVC CONDUIT (REF.)
8	#2 AWG MIN., 600 V., GROUND CABLE
9	EXOTHERMIC WELD WIRE TO ROD
10	PLIABLE SEALANT
11	LIFETIME SILICONE CAULK
12	ANCHOR BOLTS, 5/8-11 x 18" LONG BOLTS, HOT DIP GALVANIZED, 4 REQUIRED
13	WEATHERPROOF ADHESIVE LABEL, VINYL RAISED LETTERING (OR EQUIVALENT, SEE DETAIL)
14	INSULATED TERMINAL BLOCK
15	2-POLE, 20 AMP, 120V COIL LIGHTING CONTACTOR
16	2-POLE, 650 VOLT LIGHTNING ARRESTER
17	1-POLE, 15 AMP, TYPE B BREAKER TO PHOTOELECTRIC SWITCH
18	MANUAL-AUTO SWITCH
19	INSULATED GROUNDABLE NEUTRAL, 10C AMP
20	2-POLE, TYPE A MAIN BREAKER
21	2-POLE, 15 AMP (MIN), TYPE A BREAKERS TO LIGHTING CIRCUITS *
22	1-POLE, 15 AMP (MIN.), TYPE A BREAKER TO SIGNALS *
23	#2 AWG MIN., 600 V., POWER CABLE *
24	6" PEDESTAL RISER
25	12V AGM BATTERIES IN SERIES (4 MINIMUM)
26	30A GENERATOR MALE BASE
27	INVERTER (1100VA MINIMUM)
28	1-POLE, 40 AMP, TYPE B UPS BREAKER
29	1-POLE, 15 AMP, TYPE B FAN BREAKER
30	1 ½" CONDUIT OUT TO SIGNAL CABINET (CAT 5E AND CONTROL WIRING)
*	SEE PLANS FOR SIZE

DISCLAIMER

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NOTES

(A) CABINET WITH POWER SUPPLY SHALL BE ALUMINUM OR STAINLESS STEEL. ALL HARDWARE, HINGES, CATCHES, ETC. SHALL BE STAINLESS STEEL. METER SOCKET AND OTHER EQUIPMENT AND MATERIALS SHALL BE U.L. APPROVED AND CONFORM TO THE REQUIREMENTS OF THE UTILITY COMPANY OR MUNICIPALITY PROVIDING POWER.

(B) IF SUBSURFACE CONDITIONS EXIST WHICH PROHIBIT THE PLACEMENT OF THE GROUND ROD IN A VERTICAL POSITION, THE ROD MAY BE DRIVEN AT AN OBLIQUE ANGLE NOT TO EXCEED 45 DEGREES FROM VERTICAL OR BURIED IN A TRENCH AT LEAST 30 INCHES DEEP. CONNECTION TO GROUND ROD SHALL BE CADWELDED.

(C) LIGHTING SYSTEM VOLTAGE AS SPECIFIED ON PLANS (120 OR 240 VOLTS). IF LIGHTS ARE TO BE MOUNTED ON SIGNAL POSTS, VOLTAGE MUST BE 120 VOLTS. 240 VOLT LIGHTS ARE NOT TO BE MOUNTED ON OR WIRED THROUGH SIGNAL POSTS. CONDUIT, OR PULL BOXES.

(D) LOCATE PHOTOELECTRIC SWITCH AT CENTER OF WINDOW.

(E) IF FOR REASONS OF VOLTAGE DROP A WIRE SIZE IS SPECIFIED LARGER THAN #2 AWG, A LARGER TERMINAL BLOCK SHALL BE INSTALLED FOR THAT CIRCUIT.

(F) BREAKER SIZING:

SIZE (AMPS)	240V TOTAL CIRCUIT LOAD (WATTS)	120V TOTAL CIRCUIT LOAD (WATTS)
15	0-2800	0-1390
20	2850-3700	1400-1850
25	3750-4600	1860-2320
30	4650-5500	2330-2780
35	5550-6500	-
40	6550-7400	-

CIRCUIT LOAD INCLUDES LOAD DUE TO LINE LOSS, LAMP, AND BALLAST LOAD.

(G) ALL CIRCUIT BREAKERS SHALL CONFORM TO SECTION 901.4 OF THE STANDARD SPECIFICATIONS.

(H) TAPE BATTERY TEMPERATURE SENSOR TO THE SIDE OF EITHER BATTERY #2 OR BATTERY #3. SENSOR SHOULD BE TO THE MIDDLE OF THE BATTERY BANK.

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(K) SEE CABINET MANUFACTURER FOR MOUNTING BASE DIMENSIONS AND ANCHOR BOLT LOCATIONS.

SPECIAL SHEETS
PAD MOUNTED 120V/240V POWER
SUPPLY & LIGHTING CONTROLLER
W/ UNINTERRUPTIBLE POWER SUPPLY
SHEET 2 OF 3

SIGNAL PLAN
SHEET 18 OF 19

STATE OF MISSOURI
TYSON WILLIAM KING
NUMBER PE-2008002177
REGISTERED PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED, AND DATED ELECTRONICALLY

DATE PREPARED
4/8/2024

ROUTE	STATE
50	MO
DISTRICT	SHEET NO.
CD	79

COUNTY
OSAGE

JOB NO.
J5P3574

CONTRACT ID.
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PROJECT NO.
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BRIDGE NO.
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DESCRIPTION	DATE
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IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

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

LOCHMUELLER GROUP
411 North 10th Street, Suite 200
St. Louis, MO 63101
Phone: 314.621.3395

$FILE$ $TIME$ $DATE$

LIST OF MATERIALS	
ITEM	DESCRIPTION
1	METER SOCKET, 200 AMP, WITH LEVER TEST BYPASS
2	RIGID STEEL CONDUIT, 2" MIN. TO UTILITY CO. FACILITIES
3	CLASS B CONCRETE, 1.3 cu. yd. (MIN.)
4	NEMA 3R, DUST-TIGHT, WATERTIGHT CABINET
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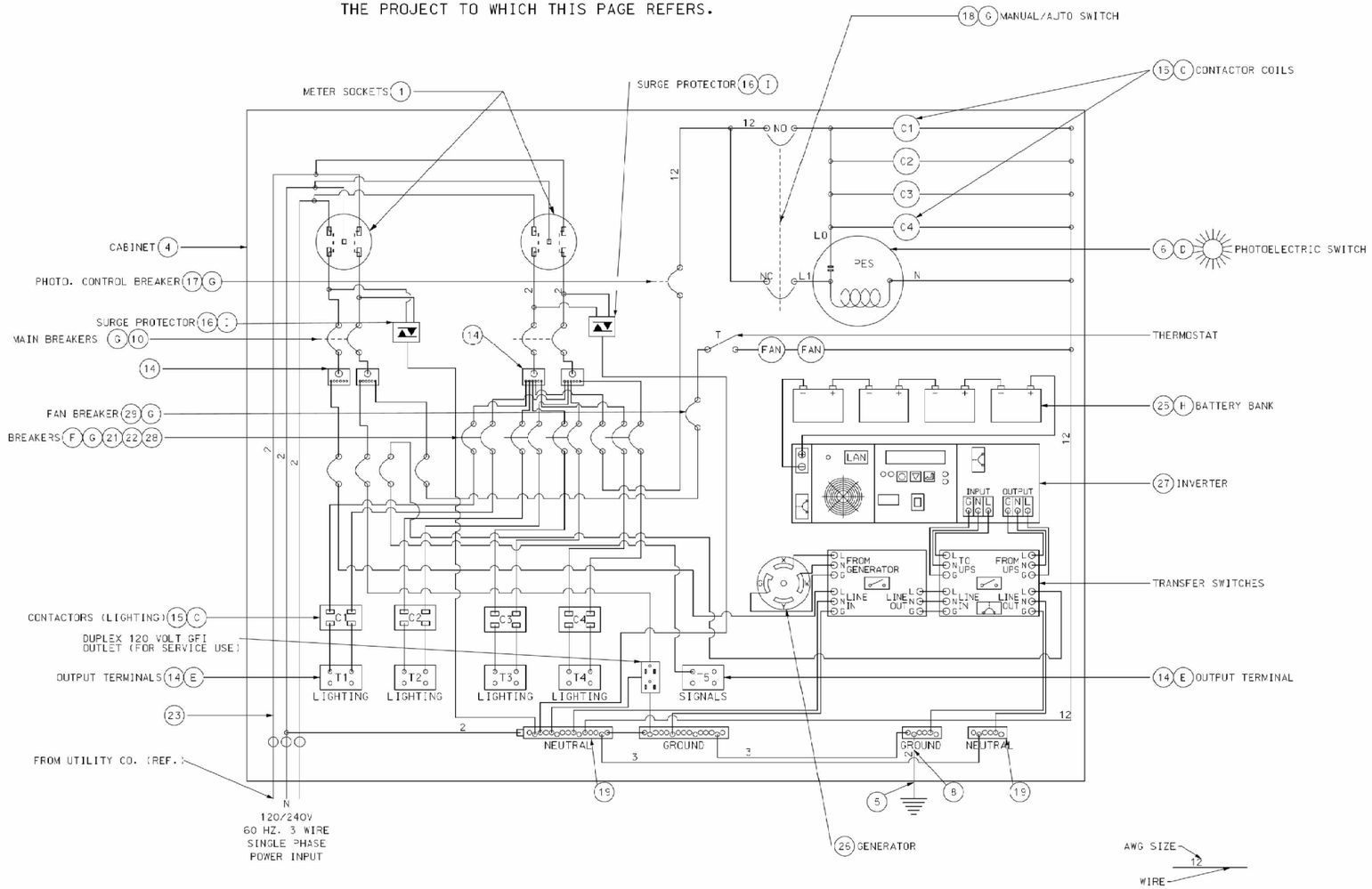

WIRING DIAGRAM

NOTES

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(H) TAPE BATTERY TEMPERATURE SENSOR TO THE SIDE OF EITHER BATTERY #2 OR BATTERY #3. SENSOR SHOULD BE TO THE MIDDLE OF THE BATTERY BANK.

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(K) SEE CABINET MANUFACTURER FOR MOUNTING BASE DIMENSIONS AND ANCHOR BOLT LOCATIONS.

SPECIAL SHEETS
PAD MOUNTED 120V/240V POWER
SUPPLY & LIGHTING CONTROLLER
W/ UNINTERRUPTIBLE POWER SUPPLY
SHEET 3 OF 3

SIGNAL PLAN
SHEET 19 OF 19

STATE OF MISSOURI
TYSON WILLIAM KING
NUMBER PE-2008002177
REGISTERED PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED, AND DATED ELECTRONICALLY

DATE PREPARED
4/8/2024

ROUTE	STATE
50	MO
DISTRICT	SHEET NO.
CD	80

COUNTY
OSAGE

JOB NO.
J5P3574

CONTRACT ID.
.

PROJECT NO.
.

BRIDGE NO.
.

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

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

LOCHMUELLER GROUP
411 North 10th Street, Suite 200
St. Louis, MO 63101
Phone: 314.621.3395

$FILE$ $TIME$ $DATE$

SIGNING
SHEET 1 OF 9

COLLIN J. WILCOX NUMBER PE-2019035614
PROFESSIONAL ENGINEER
STATE OF MISSOURI

THIS SHEET HAS BEEN SIGNED, SEALED, AND DATED ELECTRONICALLY

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

DATE PREPARED
4/8/2024

ROUTE	STATE
50	MO
DISTRICT	SHEET NO.
CD	81

COUNTY
OSAGE

JOB NO.
J5P3574

CONTRACT ID.
.

PROJECT NO.
.

BRIDGE NO.
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DESCRIPTION	DATE
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MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

LOCHMUELLER GROUP
411 North 10th Street, Suite 200
St. Louis, MO 63101
Phone: 314.621.3395

REV.

$FILE$ $TIME$ $DATE$

SCALE
0 20 40 60

OM3-R (R)
12" X 36"
STA 669+28.88 LT
ROUTE 50

END SCHOOL SPEED LIMIT
S5-3 (R&R)
24" X 30"
STA 670+97.07 LT
ROUTE 50

SPEED LIMIT 55
R2-1 (R&R)
36" X 48"
STA 670+97.36 LT
ROUTE 50

670

MATCHLINE STA 668+40.00

MATCHLINE STA 673+90.00

ROUTE 50

SIGN

S1-1 (UIP)
SCHOOL
S4-3P (UIP)
STA 668+63.51 RT
ROUTE 50

SCHOOL
S4-3P (UIP)

SPEED LIMIT 45
R2-1
WHEN FLASHING
S4-4P (UIP)
STA 670+00.78 RT
ROUTE 50

STOP
R1-1 (UIP)
STA 672+78.69 RT
ROUTE 50

SIGNING
SHEET 2 OF 9

$FILE$ $TIME$ $DATE$

COLLIN J. WILCOX
NUMBER PE-2019035614
PROFESSIONAL ENGINEER
STATE OF MISSOURI

THIS SHEET HAS BEEN SIGNED, SEALED, AND DATED ELECTRONICALLY

DATE PREPARED
4/8/2024

ROUTE	STATE
50	MO
DISTRICT	SHEET NO.
CD	82

COUNTY
OSAGE

JOB NO.
J5P3574

CONTRACT ID.
.

PROJECT NO.
.

BRIDGE NO.
.

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

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

105 WEST CAPITOL
JEFFERSON CITY, MO 65102
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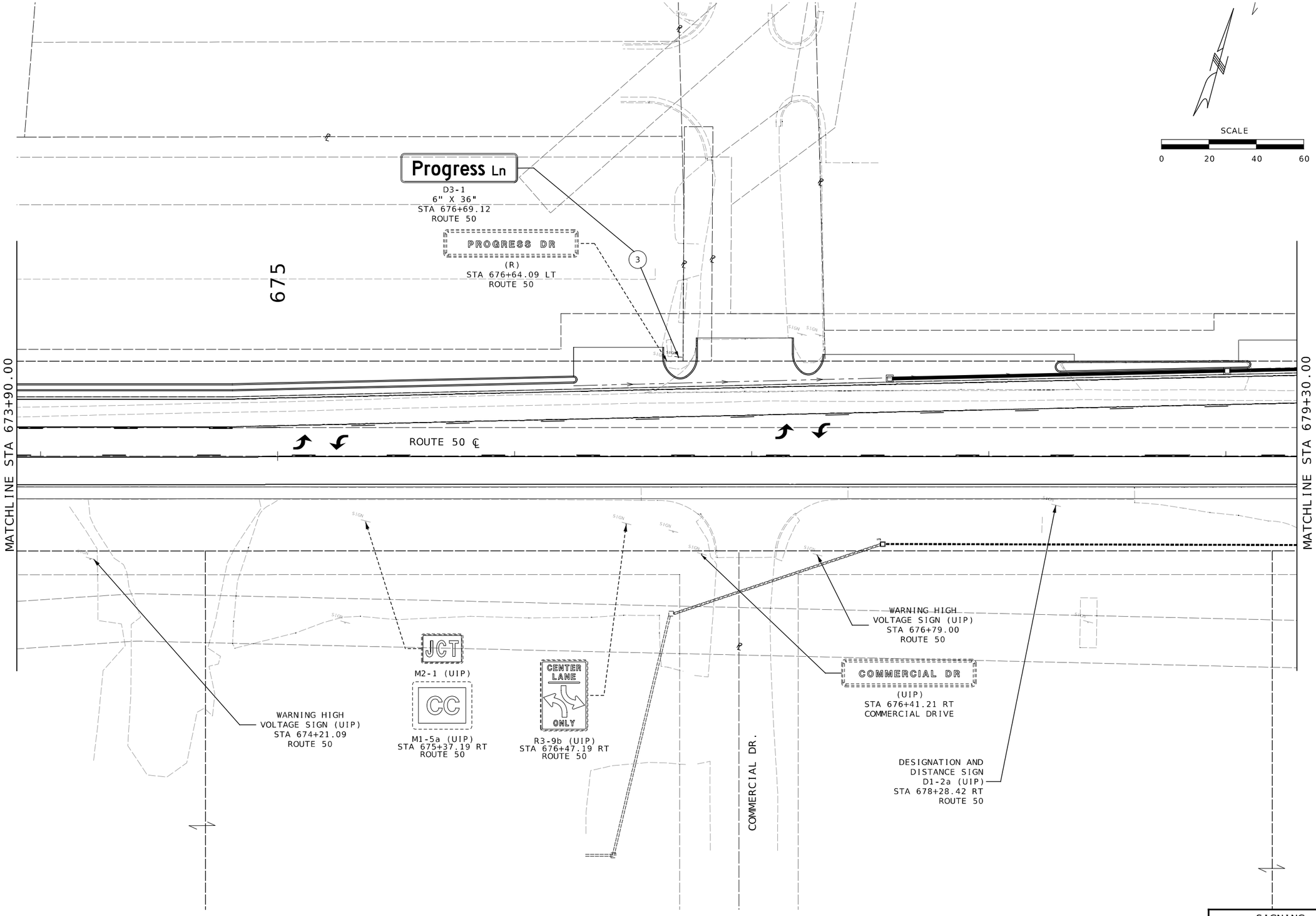

SIGNING
SHEET 3 OF 9

$FILE$ $TIME$ $DATE$

COLLIN J. WILCOX
NUMBER PE-2019035614
PROFESSIONAL ENGINEER
STATE OF MISSOURI

THIS SHEET HAS BEEN SIGNED, SEALED, AND DATED ELECTRONICALLY

DATE PREPARED
4/8/2024

ROUTE	STATE
50	MO
DISTRICT	SHEET NO.
CD	83

COUNTY
OSAGE

JOB NO.
J5P3574

CONTRACT ID.
.

PROJECT NO.
.

BRIDGE NO.
.

DESCRIPTION	DATE
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REV.

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

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

105 WEST CAPITOL
JEFFERSON CITY, MO 65102
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LOCHMUELLER GROUP
411 North 10th Street, Suite 200
St. Louis, MO 63101
Phone: 314.621.3395

SCALE
0 20 40 60

MATCHLINE STA 679+30.00

MATCHLINE STA 684+70.00

MATCHLINE STA 1+40.00

680

North Outer Dr
D3-1
24" X 42"
M6-3
21" X 15"
STA 680+70.00 LT
ROUTE 50

Technology Dr
D3-1
24" X 48"
M6-3
21" X 15"
STA 680+70.00 LT
ROUTE 50

WEST
M3-4 (R&R)
24" X 12"

SOUTH
M3-3 (R&R)
24" X 12"

M1-4 (R&R)
24" X 24"

M1-5 (R&R)
30" X 24"

STA 681+84.87 LT
ROUTE 50

M1-4 (R)
24" X 24"

M1-5a (R)
30" X 24"

M6-4 (R)
21" X 15"

M6-4 (R)
21" X 15"

STA 683+56.87 LT
ROUTE 50

M1-4 (R)

M1-5a (R)

M6-3 (R)

M6-3 (R)

M1-5a (R)

M6-1 (R)
STA 683+56.84 LT
ROUTE 50

STOP
R1-1
36" x 36"
STA 1+98.34 LT
NORTH OUTER DRIVE

N OUTER DRIVE

DET. ZONE

DET. ZONE

PC STA 0+37.00

START STA 0+00.00

ROUTE 50 ℄

DET. ZONE

DET. ZONE

DET. ZONE

DET. ZONE

DET. ZONE

DET. ZONE

DET. ZONE

ROUTE CC ℄

EAST
M3-2 (R)

NORTH
M3-1 (R)

M1-4 (R) M1-5a (R)

M1-4 (50)
24" X 24"
M1-5 (89)
24" X 24"
M6-3
21" X 15"
STA 680+70.00 RT
ROUTE 50

POST #7 (SEE ROUTE 50 AND CC SIGNAL D-SHEETS FOR DETAILS)

1/4 1/4 SECTION LINE

M1-5a
30" X 24"
M6-3
21" X 15"
STA 680+70.00 RT
ROUTE 50

M1-5a (R)

M6-1 (R)
STA 682+75.88 RT
ROUTE 50

M1-5a (R&R)
30" X 24"
STA 0+88.35 RT
ROUTE CC

WARNING HIGH VOLTAGE SIGN (RBO)
STA 1+00.88 RT
ROUTE CC

STOP
R1-1 (R)
STA 0+44.44 RT
ROUTE CC

NO PARKING ANY TIME
R7-1 (UIP)
STA 684+67.04 RT
ROUTE 50

SIGNING
SHEET 4 OF 9

$FILE$ $TIME$ $DATE$

COLLIN J. WILCOX NUMBER PE-2019035614
REGISTERED PROFESSIONAL ENGINEER
STATE OF MISSOURI

THIS SHEET HAS BEEN SIGNED, SEALED, AND DATED ELECTRONICALLY

DATE PREPARED
7/19/2024

ROUTE	STATE
50	MO
DISTRICT	SHEET NO.
CD	84

COUNTY
OSAGE

JOB NO.
J5P3574

CONTRACT ID.
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PROJECT NO.
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BRIDGE NO.
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DESCRIPTION	DATE
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IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

LOCHMUELLER GROUP
411 North 10th Street, Suite 200
St. Louis, MO 63101
Phone: 314.621.3395

REV.

NOTICE SIGN (R&R)
STA 2+60.59 RT
N OUTER DRIVE
12" X 24"

DO NOT BLOCK INTERSECTION
R10-7
24" X 30"
STA 2+55.56 LT
NORTH OUTER DRIVE

STOP
R1-1
36" X 36"
STA 2+83.87 LT
NORTH OUTER DRIVE

DO NOT BLOCK INTERSECTION
R10-7
24" X 30"
STA 3+58.26 LT
NORTH OUTER DRIVE

WARNING HIGH VOLTAGE
SIGN (RBO)
STA 685+07.97 LT
ROUTE 50

PRC STA 2+54.22

BC STA 3+52.52

END STA 4+95.90

Linn
Judge 4
D1-2a (R&R)
24" X 72" LT
STA 688+98.32
US ROUTE 50

CENTER LANE ONLY
R3-9b (R)
STA 689+95.72 LT
ROUTE 50

SCALE
0 20 40 60

685

690

N OUTER DRIVE

ROUTE 50 ℄

ONLY

DET. ZONE

MATCHLINE STA 684+70

MATCHLINE STA 690+00

WARNING HIGH VOLTAGE
SIGN (UIP)
STA 684+93.76 RT
ROUTE 50

EAST
NORTH
M3-2 (UIP) M3-1 (UIP)

50
89
M1-4 (UIP) M1-5 (UIP)
STA 685+36.14 RT
ROUTE 50

NO PARKING ANY TIME
R7-1 (UIP)
STA 686+73.55 RT
ROUTE 50

OM3-R (UIP)
STA 686+17.76 RT
ROUTE 50

WARNING HIGH VOLTAGE
SIGN (UIP)
STA 686+90.05 RT
ROUTE 50

SIGNING
SHEET 5 OF 9

$FILE$ $TIME$ $DATE$

COLLIN J. WILCOX
NUMBER PE-2019035614
STATE OF MISSOURI
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED, AND DATED ELECTRONICALLY

DATE PREPARED
7/19/2024

ROUTE	STATE
50	MO
DISTRICT	SHEET NO.
CD	85

COUNTY
OSAGE

JOB NO.
J5P3574

CONTRACT ID.
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PROJECT NO.
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BRIDGE NO.
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DESCRIPTION	DATE
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IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

REV.

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

LOCHMUELLER GROUP
411 North 10th Street, Suite 200
St. Louis, MO 63101
Phone: 314.621.3395

16

W4-2R
36" X 36"
STA 2+69.69 RT
TECHNOLOGY DR

JCT

M2-1 (R&R)
21" X 15"

CC

M1-5a (R&R)
24" X 24"
STA 691+76.90 LT
ROUTE 50

17

TECHNOLOGY DR

DET. ZONE

DET. ZONE

SIGN

SIGN

DET. ZONE

SECTION LINE

SCALE

0 20 40 60

695

ROUTE 50 ℄

MATCHLINE STA 690+00

MATCHLINE STA 695+20

STOP

R1-1 (R)
36" X 36"
STA 1+48.12 LT
TECHNOLOGY DRIVE

SECTION LINE

SIGNING
SHEET 6 OF 9

$FILE$ $TIME$ $DATE$

STATE OF MISSOURI
COLLIN J. WILCOX
NUMBER PE-2019035614
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED, AND DATED ELECTRONICALLY

DATE PREPARED
4/8/2024

ROUTE	STATE
50	MO
DISTRICT	SHEET NO.
CD	86

COUNTY
OSAGE

JOB NO.
J5P3574

CONTRACT ID.
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PROJECT NO.
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BRIDGE NO.
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DESCRIPTION	DATE
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REV.

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

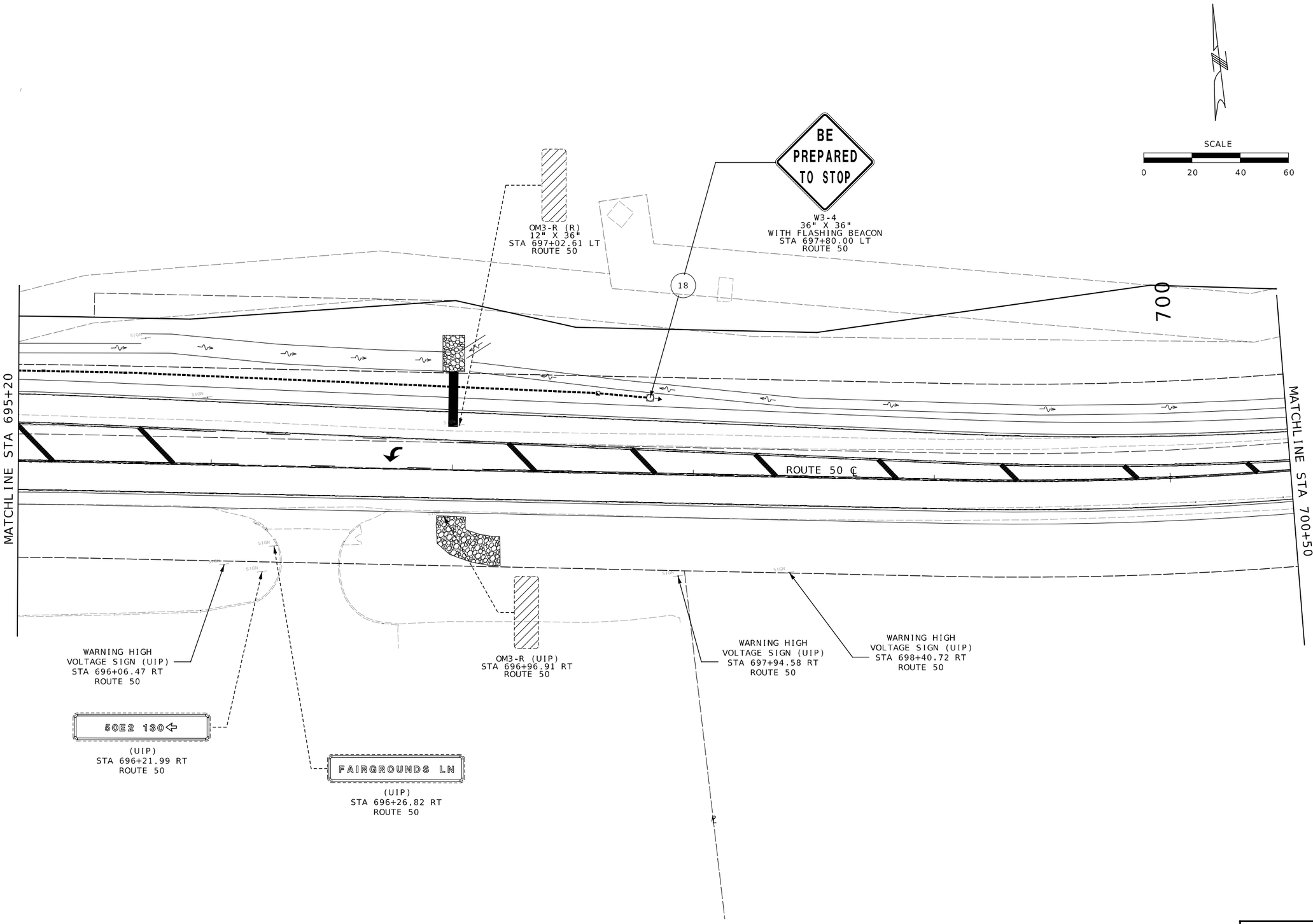
MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

MoDOT

105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

LOCHMUELLER GROUP

411 North 10th Street, Suite 200
St. Louis, MO 63101
Phone: 314.621.3395



SIGNING
SHEET 7 OF 9

$FILE$ $TIME$ $DATE$

COLLIN J. WILCOX
NUMBER
PE-2019035614
STATE OF MISSOURI
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED, AND DATED ELECTRONICALLY

DATE PREPARED
4/8/2024

ROUTE	STATE
50	MO
DISTRICT	SHEET NO.
CD	87

COUNTY
OSAGE

JOB NO.
J5P3574

CONTRACT ID.
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PROJECT NO.
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BRIDGE NO.
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DESCRIPTION	DATE
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MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

LOCHMUELLER GROUP
411 North 10th Street, Suite 200
St. Louis, MO 63101
Phone: 314.621.3395

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

REV.

COLLIN J. WILCOX
NUMBER PE-2019035614
STATE OF MISSOURI
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED, AND DATED ELECTRONICALLY

DATE PREPARED
4/8/2024

ROUTE	STATE
50	MO

DISTRICT	SHEET NO.
CD	88

COUNTY
OSAGE

JOB NO.
J5P3574

CONTRACT ID.
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PROJECT NO.
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BRIDGE NO.
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DATE	DESCRIPTION
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IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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JEFFERSON CITY, MO 65102
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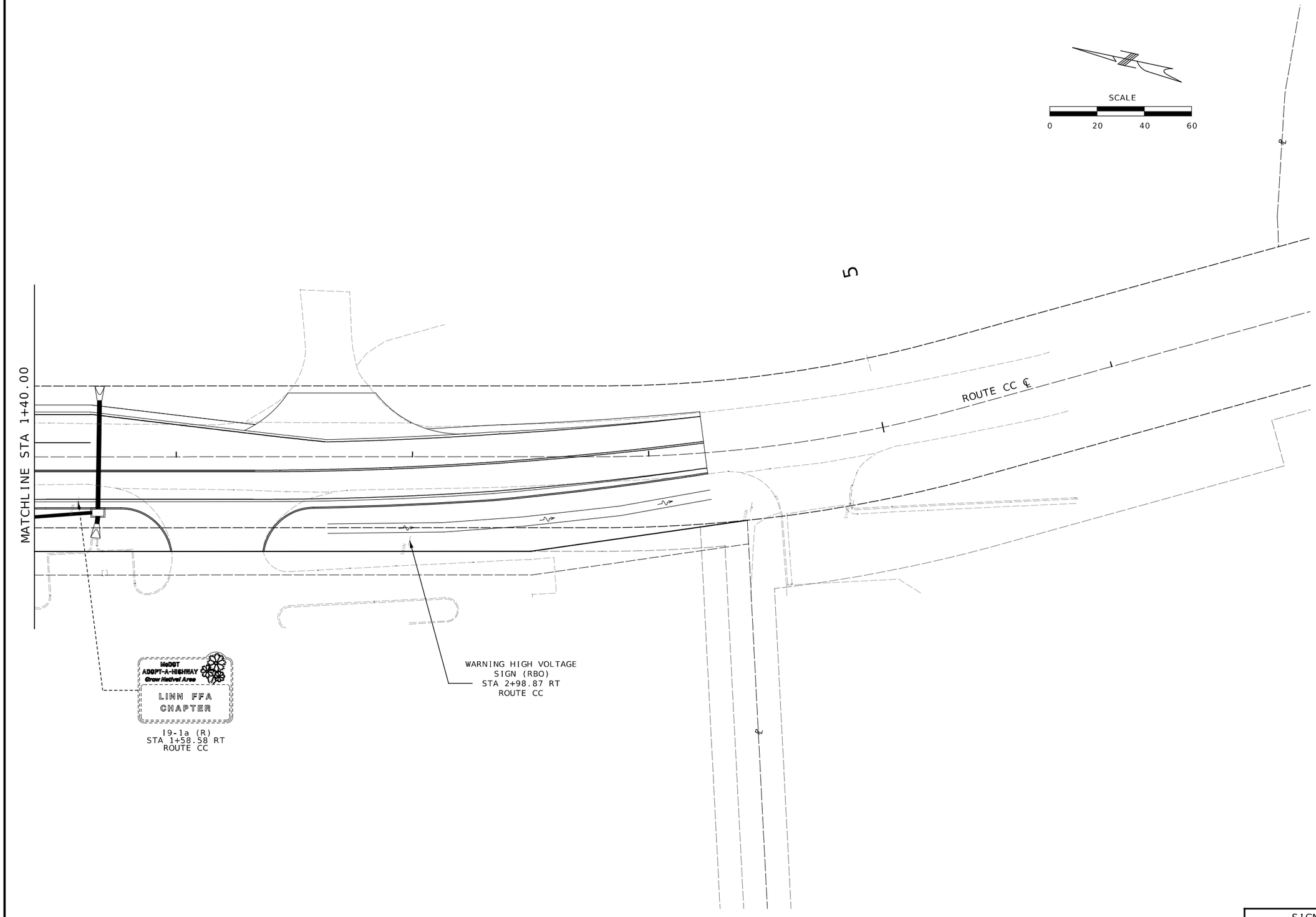
Phone: 314.621.3395

SIGNING
SHEET 8 OF 9

REV.

$FILE$ $TIME$ $DATE$



SIGNING
SHEET 9 OF 9

$FILE$ $TIME$ $DATE$

COLLIN J. WILCOX
NUMBER
PE-2019035614
STATE OF MISSOURI
REGISTERED PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED, AND DATED ELECTRONICALLY

DATE PREPARED
7/19/2024

ROUTE	STATE
50	MO
DISTRICT	SHEET NO.
CD	89

COUNTY
OSAGE

JOB NO.
J5P3574

CONTRACT ID.
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PROJECT NO.
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BRIDGE NO.
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DESCRIPTION	DATE
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REV.

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

LOCHMUELLER GROUP
411 North 10th Street, Suite 200
St. Louis, MO 63101
Phone: 314.621.3395

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

EFFECTIVE: 07-01-2022

SIGNS

902 SIGNAL SIGNS TABULATED ON D-37A SHEET

CONCRETE FOOTINGS EMBEDDED

STRUCTURAL STEEL POSTS *

PIPE POSTS *

BACKING BARS **

U-CHANNEL POST

PERFORATED SQUARE STEEL TUBE

2 IN. POST

2.5 IN. POST

SIGN NO.	SIGN SIZE	STATION	HORZ CLEAR IF NOT STD	LOCATION	SIGN DTL. SHT. NO.	CONCRETE FOOTINGS EMBEDDED ITEM NO. 9031010 CY	STRUCTURAL STEEL POSTS * POST DES NO.	POST NO.1 LF	POST NO.2 LF	POST NO.3 LF	LBS PER FT	TOTAL ITEM NO. 9031210 LBS	PIPE POSTS * PIPE SIZE IN.	POST NO.1 LF	POST NO.2 LF	LBS PER FT	TOTAL ITEM NO. 9031220 LBS	BACKING BARS ** 2" X ▯" BARS @ 2.55 LBS PER FT NO. EACH	LGTH IN.	TOTAL LF	TOTAL LBS	U-CHANNEL POST ITEM NO. 9031250A LF	PERFORATED SQUARE STEEL TUBE 2 IN. POST POST NO.1 LF	POST NO.2 LF	TOTAL ITEM NO. 9031270A LF	ANCHORS DRIVEN 12-GA. ITEM NO. 9031271A EA	DRIVEN 7-GA. ITEM NO. 9031273A EA	CONCRETE 7-GA. ITEM NO. 9031274 EA	2.5 IN. POST POST NO.1 LF	POST NO.2 LF	TOTAL ITEM NO. 9031280 LF	2.25" INSERT (6 FT) ITEM NO. 9031272A EA	ANCHORS DRIVEN 7-GA. ITEM NO. 9031281A EA	CONCRETE 7-GA. ITEM NO. 9031285 EA	BREAK-AWAY ASSEMBLY ITEM NO. 9031241 EA	REMARKS AND OTHER REQUIRED ITEMS
1	24"X30"	670+97		ROUTE 50	2																		10.25		10.25	1										SIGN RELOCATED TO NEW POST
2	36"X48"	670+94		ROUTE 50	2																		11.75		11.75	1										SIGN RELOCATED TO NEW POSTS
3	12"X48"	676+64		PROGRESS	3																	10														REPLACE EXISTING SIGN & POST
4	24"X42"	680+70		ROUTE 50	4																															CANTILEVER OVERHEAD LANE SIGN
	21"X15"	680+70		ROUTE 50	4																															CANTILEVER OVERHEAD LANE SIGN
5	24"X48"	680+70		ROUTE 50	4																															CANTILEVER OVERHEAD LANE SIGN
	21"X15"	680+70		ROUTE 50	4																															CANTILEVER OVERHEAD LANE SIGN
6	24"X24"	680+70		ROUTE 50	4																															CANTILEVER OVERHEAD LANE SIGN
	24"X24"	680+70		ROUTE 50	4																															CANTILEVER OVERHEAD LANE SIGN
	21"X15"	680+70		ROUTE 50	4																															CANTILEVER OVERHEAD LANE SIGN
7	30"X24"	680+70		ROUTE 50	4																															CANTILEVER OVERHEAD LANE SIGN
	21"X15"	680+70		ROUTE 50	4																															CANTILEVER OVERHEAD LANE SIGN
8	24"X12"	681+85		ROUTE 50	4													4	50	17	43		10.75		10.75	1										SIGN RELOCATED TO NEW POST
	24"X24"	681+85		ROUTE 50	4																															SIGN RELOCATED TO NEW POST
	24"X12"	681+85		ROUTE 50	4																															SIGN RELOCATED TO NEW POST
	30"X24"	681+85		ROUTE 50	4																															SIGN RELOCATED TO NEW POST
9	36"X36"	1+98		N OUTER	4																	12														NEW SIGN WITH POST
10	30"X24"	0+89		ROUTE CC	4																		9.75		9.75	1										SIGN RELOCATED TO NEW POST
11	12"X24"	2+61		N OUTER	5																	10														SIGN RELOCATED TO NEW POST
12	24"X30"	2+56		N OUTER	5																	12.5														NEW SIGN WITH POST
13	36"X36"	2+84		N OUTER	5																		10.25		10.25	1										NEW SIGN WITH POST
14	24"X30"	3+58		N OUTER	5																	12.5														NEW SIGN WITH POST
15	24"X72"	688+98		ROUTE 50	5																		10.25	10.25	20.5	2										NEW SIGN WITH POST
16	36"X36"	2+70		TECH DR	6																	12														NEW SIGN WITH POST
17	21"X15"	691+77		ROUTE 50	6																		11		11	1										SIGN RELOCATED TO NEW POST
	24"X24"	691+77		ROUTE 50	6																															SIGN RELOCATED TO NEW POST
18	36"X36"	697+80		ROUTE 50	7																		13.75		13.75	1										
19	36"X36"	703+30		ROUTE 50	8																		10.25		10.25	1										NEW SIGN WITH POST
SUBTOTAL																						43	69		108.25	10										
TOTAL																						**	69		109	10										

* BREAKAWAY ASSEMBLY IS INCIDENTAL FOR STRUCTURAL STEEL AND PIPE POSTS.
** BACKING BARS ARE TOTALED WITH STRUCTURAL STEEL OR PIPE POSTS.

ROUND PIPE POST AND FOOTING DATA TABLE

NOM.SIZE (IN.)	WEIGHT LBS/FT	WEIGHT LBS/IN	STUB LENGTH	FOOTING DIA.	FOOTING DEPTH	CONCRETE C.Y.
2½	5.79	0.48	4'- 3½"	12"	4~6"	0.13
3	7.58	0.63	4'- 3½"	12"	4~6"	0.13
4	10.79	0.90	5'- 3½"	18"	5~6"	0.36

STRUCTURAL STEEL POST AND FOOTING DATA TABLE

POST DES. NO.	POST NOM. SIZE	POST WEIGHT LBS/FT	POST WEIGHT LBS/IN	POST STUB LENGTH	FOOTING DIA.	LEVEL GROUND DEPTH	LEVEL GROUND C.Y.	6:1 GRADE DEPTH	6:1 GRADE C.Y.	4:1 GRADE DEPTH	4:1 GRADE C.Y.	3:1 OR 2:1 GRADE DEPTH	3:1 OR 2:1 GRADE C.Y.
1	W6	9.0	0.75	3'-0"	15"	3'-0"	0.14	3'-2"	0.15	3'-3"	0.16	3'-6"	0.17
2	W6	15.0	1.25	4'-0"	24"	4'-0"	0.47	4'-2"	0.50	4'-3"	0.51	4'-6"	0.54
3	W8	18.0	1.50	4'-6"	28"	4'-6"	0.71	4'-8"	0.73	4'-9"	0.74	5'-0"	0.78
4	W10	22.0	1.83	5'-0"	36"	5'-0"	1.31	5'-2"	1.36	5'-3"	1.39	5'-6"	1.45
5	W10	26.0	2.17	5'-0"	36"	5'-0"	1.31	5'-3"	1.37	5'-5"	1.43	5'-9"	1.52
6	W12	35.0	2.92	5'-6"	36"	5'-6"	1.44	5'-9"	1.52	5'-11"	1.56	6'-3"	1.65

COLLIN J. WILCOX NUMBER PE-2019035614
PROFESSIONAL ENGINEER
STATE OF MISSOURI
THIS SHEET HAS BEEN SIGNED, SEALED, AND DATED ELECTRONICALLY

DATE PREPARED 7/19/2024
ROUTE 50 | STATE MO
DISTRICT CD | SHEET NO. 90
COUNTY OSAGE
JOB NO. J5P3574
CONTRACT ID. .
PROJECT NO. .
BRIDGE NO. .

DESCRIPTION | DATE

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

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

LOCHMUELLER GROUP
411 North 10th Street, Suite 200
St. Louis, MO 63101
Phone: 314.621.3395

STANDARD SIGN ASSEMBLIES

SIGN NUMBER	STATION	LOCATION	TYPE: S5-3 24"x30"	R2-1 36"x48"	R3-5L 30"x36"	M6-3 21"x15"	M1-5 24"x24"	M1-4 24"x24"	M1-5a 30"x24"	R3-5R 30"x36"	M3-4 24"x12"	M3-3 24"x12"	R1-1 36"x36"	R10-7 24"x30"	W4-2R 36"x36"	M2-1 21"x15"	W3-4 36"x36"	W3-3 36"x36"	I9-1a
			SIGN DESCRIPTION, SIZES & NUMBER OF EACH: END SCHOOL SPEED LIMIT	SPEED LIMIT 55	ONLY	↓	89	60	CC	ONLY	WEST	SOUTH	STOP	DO NOT BLOCK INTERSECTION	I 9	JCT	IN PREPARED TO STOP		MUTCD
1	670+97	ROUTE 50	1																
2	670+94	ROUTE 50		1															
3	676+64	PROGRESS	PROGRESS LN SIGN -SEE SPECIAL SIGN SUMMARY																
4	680+70	ROUTE 50	N OUTER DR OVERHEAD SIGN -SEE SPECIAL SIGN SUMMARY																
4	680+70	ROUTE 50				1													
5	680+70	ROUTE 50				1													
5	680+70	ROUTE 50	TECHNOLOGY DR OVERHEAD SIGN -SEE SPECIAL SIGN SUMMARY																
6	680+70	ROUTE 50				1													
6	680+70	ROUTE 50					1												
6	680+70	ROUTE 50						1											
7	680+70	ROUTE 50							1										
7	680+70	ROUTE 50				1													
8	681+85	ROUTE 50									1								
8	681+85	ROUTE 50						1											
8	681+85	ROUTE 50										1							
8	681+85	ROUTE 50					1												
9	1+98	N OUTER DR											1						
10	0+89	ROUTE CC							1										
11	2+61	N OUTER DR	NOTICE SIGN (R&R)																
12	2+56	N OUTER DR												1					
13	2+84	N OUTER DR											1						
14	3+58	N OUTER DR												1					
15	688+98	ROUTE 50	LINN & JUDGE DESTINATION & DISTANCE SIGN-SEE SPECIAL SIGN SUMMARY																
16	2+70	TECHNOLOGY DR													1				
17	691+77	ROUTE 50														1			
17	691+77	ROUTE 50							1										
18	697+80	ROUTE 50															1		
19	703+30	ROUTE 50																1	

SIGN SUMMARY

STANDARD SIGN OR SPECIAL SIGN NUMBER	SIGN DETAIL SHEET NO.	NO. EACH	SIZE, TYPE & SQUARE FEET: SIZE	FLAT SHEET SH (ITEM NO. 9035004A)	FLAT SHEET FLUORESCENT SHF * (ITEM NO. 9035069A)	STRUCTURAL ST (ITEM NO. 9035011A)	STRUCTURAL FLUORESCENT STF * (ITEM NO. 9035071A)
S5-3	2	1	24"X30"	5			
R2-1	2	1	36"X48"	12			
D3-1	3	1	12"X48"	4			
SIGN NUMBER 4	4	1	24"X42"	7			
M6-3 (WHITE ON GREEN)	4	1	21"X15"	2.2			
M6-3 (WHITE ON GREEN)	4	1	21"X15"	2.2			
SIGN NUMBER 5	4	1	24"X48"	8			
M6-3	4	1	21"X15"	2.2			
M1-5	4	1	24"X24"	4			
M1-4	4	1	24"X24"	4			
M1-5a	4	1	30"X24"	5			
M6-3	4	1	21"X15"	2.2			
M3-4	4	1	24"X12"	2			
M1-4	4	1	30"X24"	5			
M3-3	4	1	24"X12"	2			
M1-5	4	1	24"X24"	4			
R1-1	4	1	36"X36"	9			
M1-5a	4	1	24"X24"	4			
SIGN NUMBER 11	5	1	12"X24"	2			
R10-7	5	1	24"X30"	5			
R1-1	5	1	36"X36"	9			
R10-7	5	1	24"X30"	5			
D1-2a	5	1	24"X72"	12			
W4-2R	6	1	36"X36"	9			
M2-1	6	1	21"X15"	2.2			
M1-5a	6	1	24"X24"	4			
W3-4	7	1	36"X36"			9	
W3-3	8	1	36"X36"			9	
			TOTAL	132		18	

* ORANGE, YELLOW & YELLOW/GREEN

THIS SHEET HAS BEEN SIGNED, SEALED, AND DATED ELECTRONICALLY

DATE PREPARED: 8/7/2024

ROUTE	STATE
50	MO
DISTRICT	SHEET NO.
CD	91

COUNTY: OSAGE

JOB NO.: J5P3574

CONTRACT ID.:

PROJECT NO.:

BRIDGE NO.:

DATE	DESCRIPTION

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

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

LOCHMUELLER GROUP
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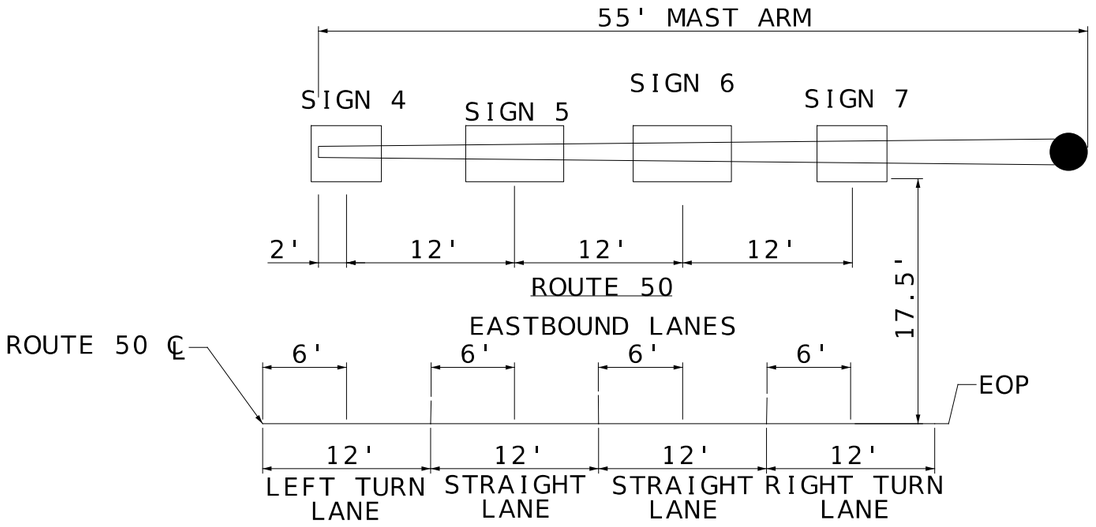
Phone: 314.621.3395

$FILE$ $TIME$ $DATE$

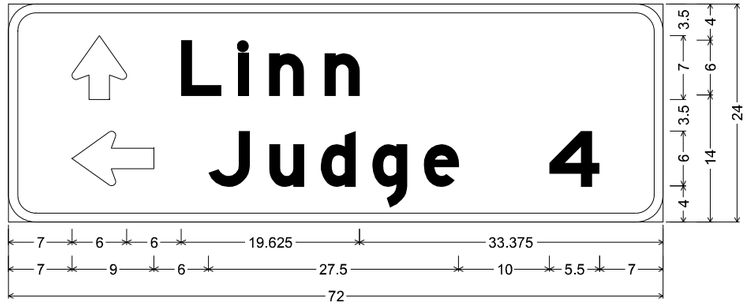


TYPICAL SECTION

SIGNS MOUNTED ON MAST ARM

SIGN LOCATIONS 4,5,6,7

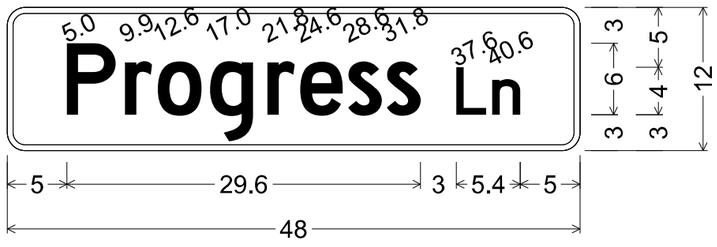
SIGN 15 DETAIL



D1-2a ST-STRUCTURAL;
3.000" Radius, 1.000" Border, White on, Green;
Standard Arrow Custom 7.000" X 6.000" 90'; "Linn", E Mod;
Standard Arrow Custom 9.000" X 6.000" 180'; "Judge", E Mod;
"4", E Mod 90% spacing;
Table of letter and object lefts

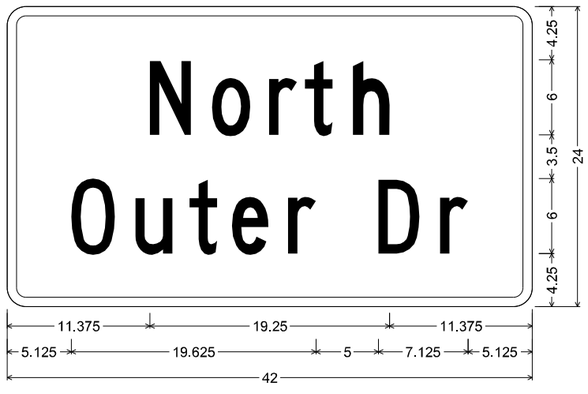
⇧ 7.000	L 19.000	i 25.250	n 28.625	n 34.750		
⇦ 7.000	J 22.000	u 28.625	d 34.375	g 40.000	e 45.625	4 59.500

SIGN 3 DETAIL



D3-1(1)_VARx12;
1.5" Radius, 0.5" Border, White on, Green;
"Progress", D 2K; "Ln", D 2K;

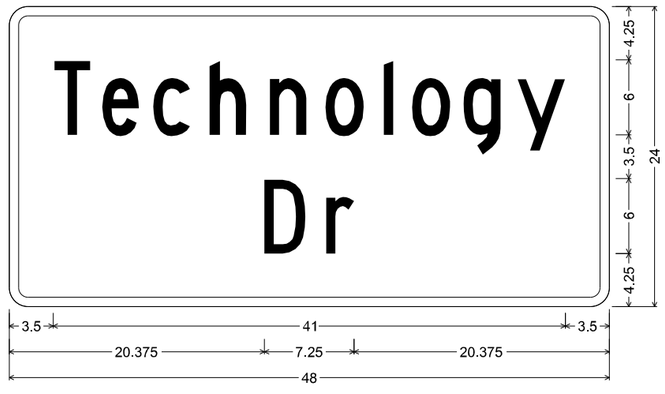
SIGN 4 DETAIL



D3-1 SH-FLAT SHEET;
1.500" Radius, 0.750" Border, White on, Green;
"North", C; "Outer Dr", C;
Table of letter and object lefts

N 11.375	o 16.375	r 21.000	t 23.750	h 27.625		
O 5.125	u 10.250	t 14.625	e 18.000	r 22.500	D 29.750	r 34.625

SIGN 5 DETAIL



D3-1 SH-FLAT SHEET;
1.500" Radius, 0.750" Border, White on, Green;
"Technology", C; "Dr", C;
Table of letter and object lefts

T 3.500	e 7.500	c 11.500	h 16.000	n 20.875	o 25.250	l 29.875	o 32.250	g 36.375	y 40.625	
D 20.375	r 25.375									

SIGN DETAILS

$FILE$ $TIME$ $DATE$

COLLIN J. WILCOX NUMBER PE-2019035614 STATE OF MISSOURI PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED, AND DATED ELECTRONICALLY

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

DATE PREPARED 7/19/2024

ROUTE 50 | STATE MO

DISTRICT CD | SHEET NO. 92

COUNTY OSAGE

JOB NO. J5P3574

CONTRACT ID. .

PROJECT NO. .

BRIDGE NO. .

DESCRIPTION	DATE
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MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

LOCHMUELLER GROUP
411 North 10th Street, Suite 200
St. Louis, MO 63101
Phone: 314.621.3395

SCALE

0 20 40 60

665

BEGIN PROJECT
STA 666+90.00

24" SOLID YELLOW, 50' SPACING (TYP.)

MATCHLINE STA 668+40

ROUTE 50 ℄

12'

12'

6" SOLID WHITE

4" SOLID DOUBLE YELLOW

SIGN

SIGN

PAVEMENT MARKING
SHEET 1 OF 9

STATE OF MISSOURI
COLLIN J. WILCOX
NUMBER PE-2019035614
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED, AND DATED ELECTRONICALLY

DATE PREPARED
4/8/2024

ROUTE	STATE
50	MO
DISTRICT	SHEET NO.
CD	93

COUNTY
OSAGE

JOB NO.
J5P3574

CONTRACT ID.
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PROJECT NO.
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BRIDGE NO.
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DESCRIPTION	DATE
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MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

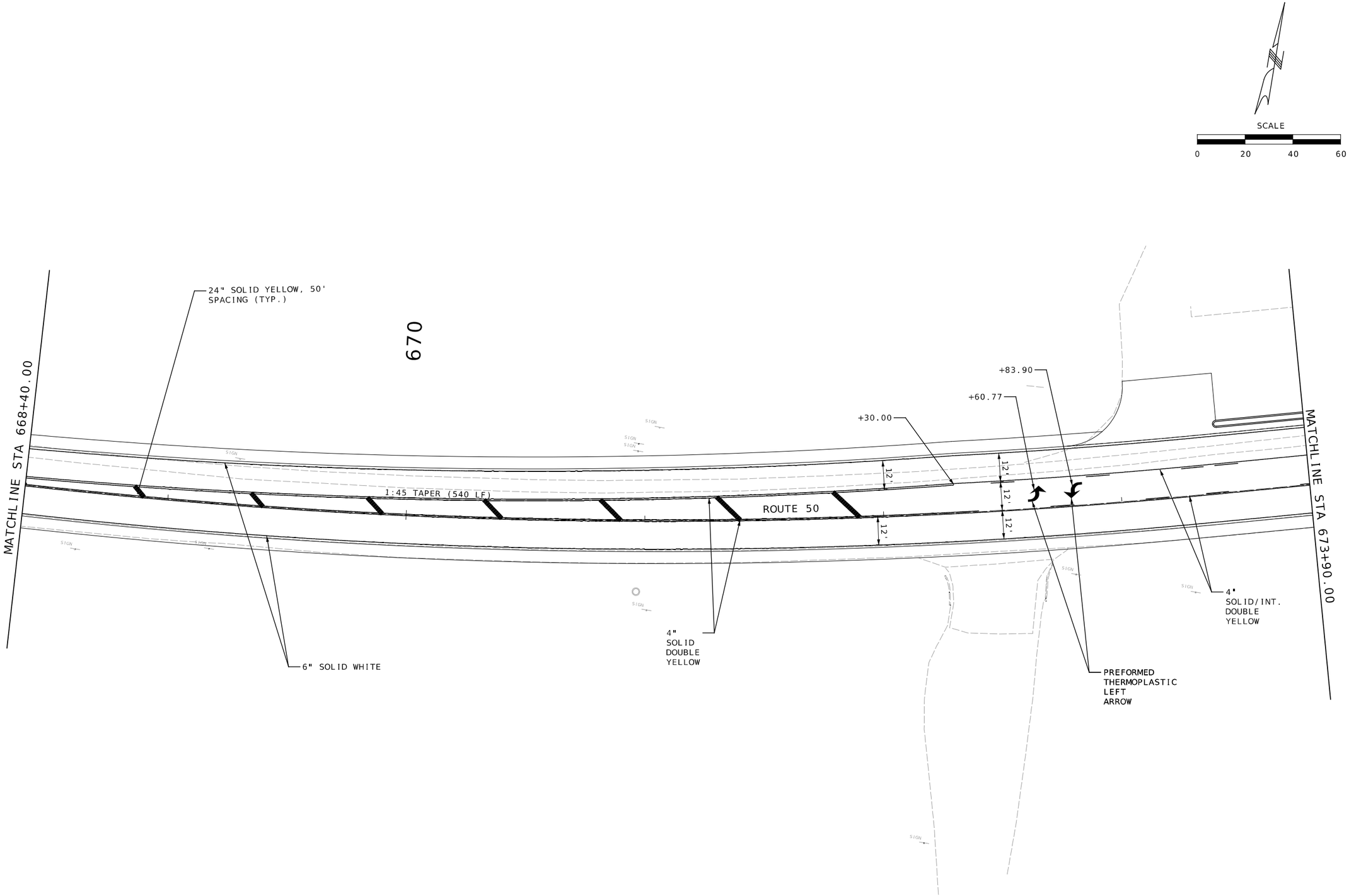
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

LOCHMUELLER GROUP
411 North 10th Street, Suite 200
St. Louis, MO 63101
Phone: 314.621.3395

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

REV.

$FILE$ $TIME$ $DATE$



PAVEMENT MARKING
SHEET 2 OF 9

$FILE$ $TIME$ $DATE$

COLLIN J. WILCOX NUMBER PE-2019035614
STATE OF MISSOURI PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED, AND DATED ELECTRONICALLY

DATE PREPARED
4/8/2024

ROUTE	STATE
50	MO
DISTRICT	SHEET NO.
CD	94

COUNTY
OSAGE

JOB NO.
J5P3574

CONTRACT ID.
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PROJECT NO.
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BRIDGE NO.
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DESCRIPTION	DATE
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IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

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

LOCHMUELLER GROUP
411 North 10th Street, Suite 200
St. Louis, MO 63101
Phone: 314.621.3395

REV.

SCALE
0 20 40 60

675

MATCHLINE STA 673+90.00

STA 674+80.98
OFF 12.00' LT.

+06.59

+29.80

+10.00

+33.04

12'

12'

12'

12'

1:45 TAPER (540 LF)

ROUTE 50 ℄

MATCHLINE STA 679+30.00

4"
SOLID/INT.
DOUBLE
YELLOW

PREFORMED
THERMOPLASTIC
LEFT
ARROW

PREFORMED
THERMOPLASTIC
LEFT
ARROW

4"
SOLID/INT.
DOUBLE
YELLOW

6" SOLID WHITE

COMMERCIAL DR.

PAVEMENT MARKING
SHEET 3 OF 9

$FILE$ $TIME$ $DATE$

COLLIN J. WILCOX
NUMBER
PE-2019035614
PROFESSIONAL ENGINEER
STATE OF MISSOURI

THIS SHEET HAS BEEN SIGNED, SEALED, AND DATED ELECTRONICALLY

DATE PREPARED
4/8/2024

ROUTE	STATE
50	MO
DISTRICT	SHEET NO.
CD	95

COUNTY
OSAGE

JOB NO.
J5P3574

CONTRACT ID.
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PROJECT NO.
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BRIDGE NO.
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DESCRIPTION	DATE
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MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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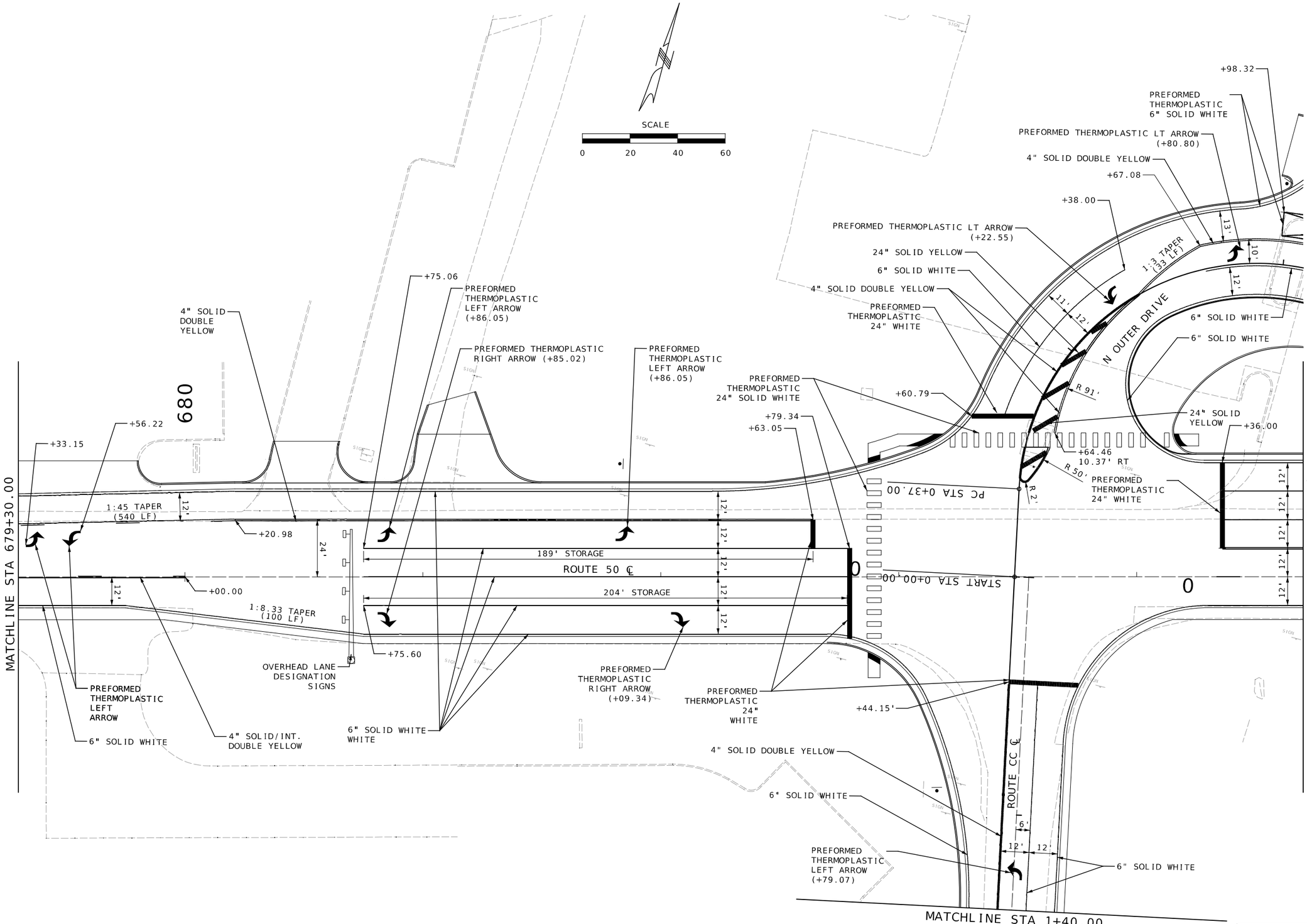
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

LOCHMUELLER GROUP
411 North 10th Street, Suite 200
St. Louis, MO 63101
Phone: 314.621.3395

REV.



PAVEMENT MARKING
SHEET 4 OF 9

THIS SHEET HAS BEEN SIGNED, SEALED, AND DATED ELECTRONICALLY

COLLIN J. WILCOX NUMBER PE-2019035614
STATE OF MISSOURI PROFESSIONAL ENGINEER

DATE PREPARED: 4/8/2024

ROUTE	STATE
50	MO
DISTRICT	SHEET NO.
CD	96

COUNTY: OSAGE
JOB NO.: J5P3574
CONTRACT ID.: .
PROJECT NO.: .
BRIDGE NO.: .

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

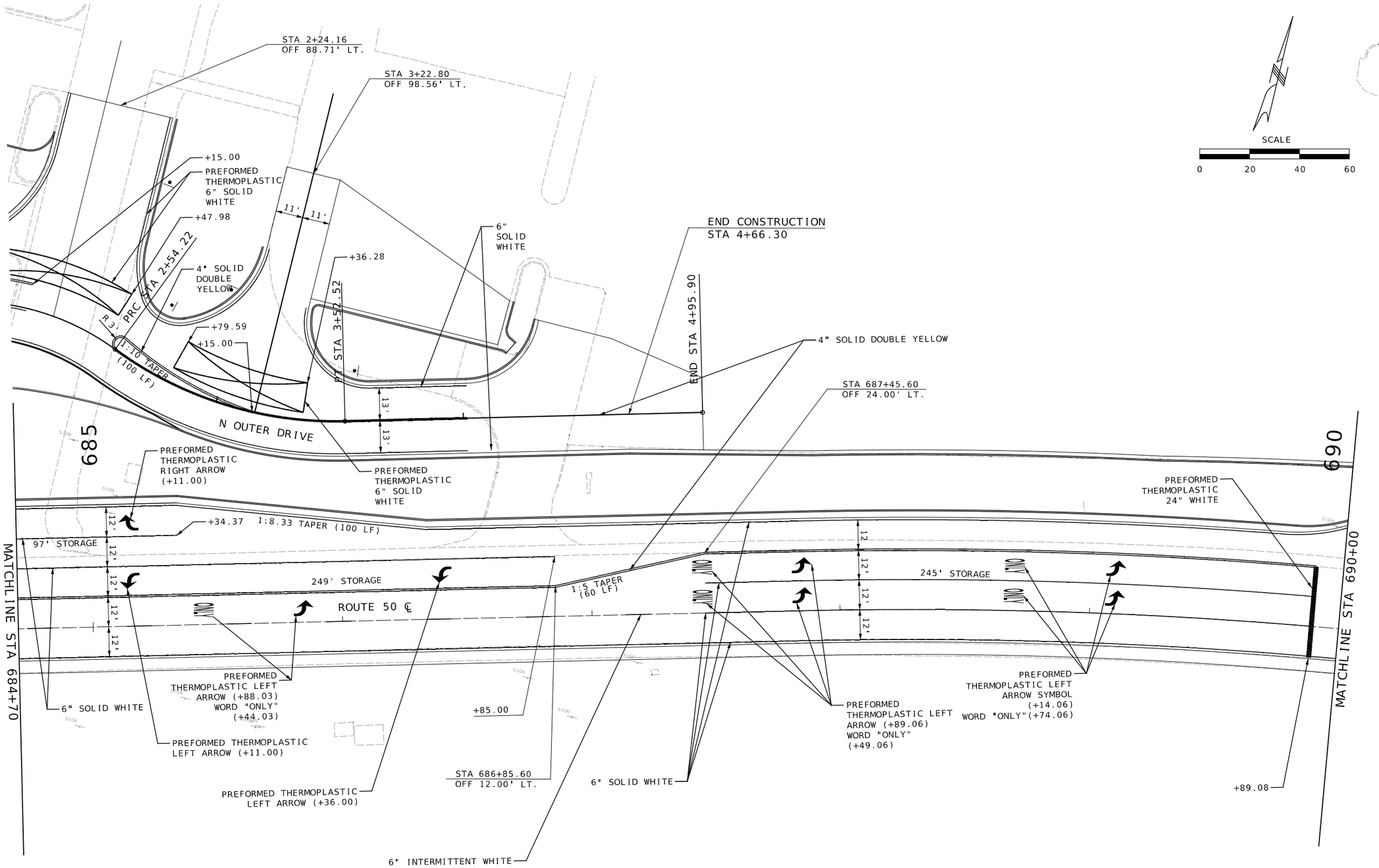
MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

LOCHMUELLER GROUP
411 North 10th Street, Suite 200
St. Louis, MO 63101
Phone: 314.621.3395

REV.

$FILE$ $TIME$ $DATE$



COLLIN J. WILCOX
NUMBER PE-2019035614
STATE OF MISSOURI
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED, AND DATED ELECTRONICALLY

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

DATE PREPARED
4/8/2024

ROUTE	STATE
50	MO
DISTRICT	SHEET NO.
CD	97

COUNTY
OSAGE

JOB NO.
J5P3574

CONTRACT ID.
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PROJECT NO.
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BRIDGE NO.
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DESCRIPTION	DATE
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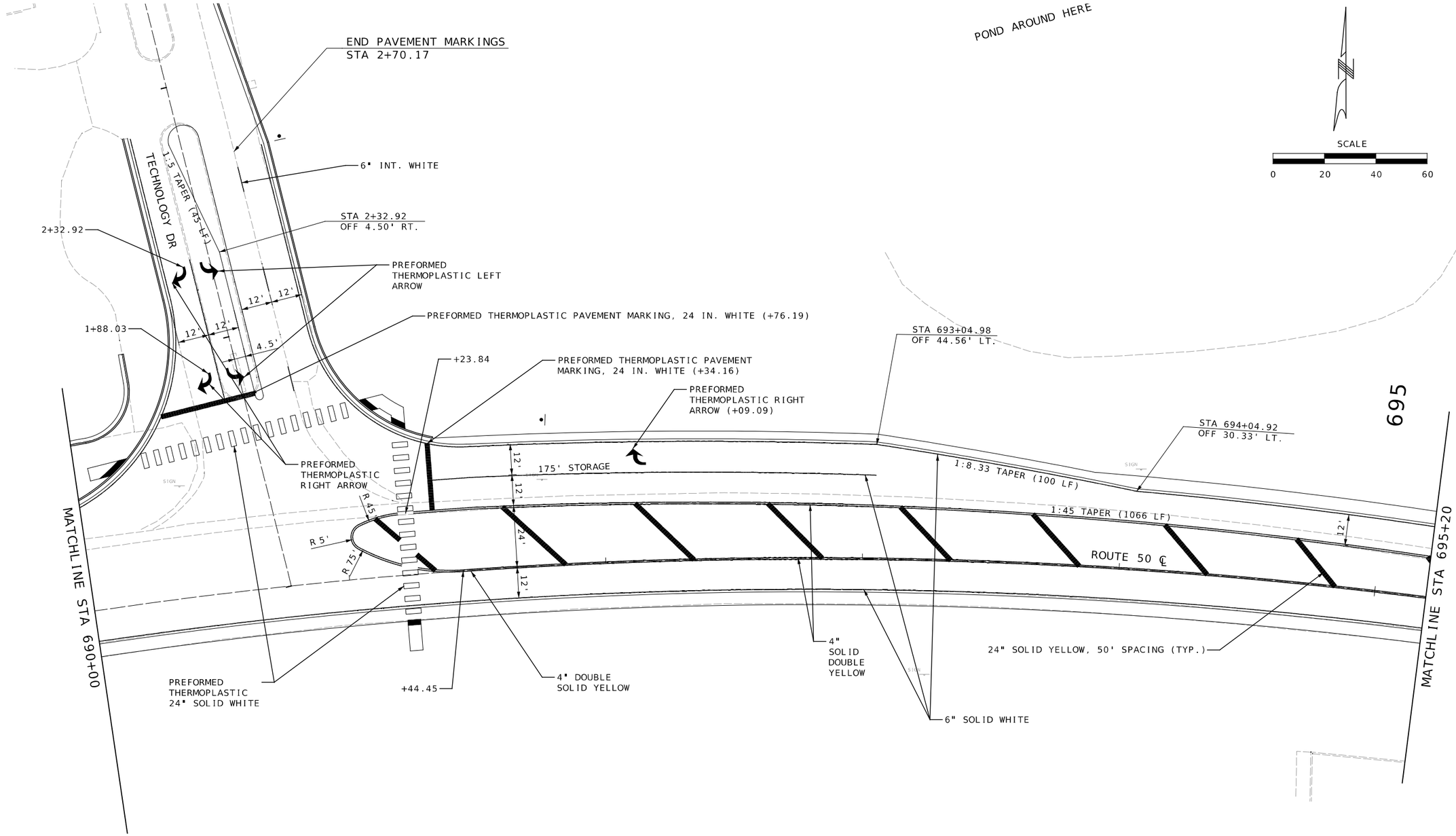
MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

LOCHMUELLER GROUP
411 North 10th Street, Suite 200
St. Louis, MO 63101
Phone: 314.621.3395

PAVEMENT MARKING
SHEET 5 OF 9

REV.

$FILE$ $TIME$ $DATE$



PAVEMENT MARKING
SHEET 6 OF 9

COLLIN J. WILCOX
NUMBER
PE-2019035614
STATE OF MISSOURI
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED, AND DATED ELECTRONICALLY

DATE PREPARED
4/8/2024

ROUTE	STATE
50	MO
DISTRICT	SHEET NO.
CD	98

COUNTY
OSAGE

JOB NO.
J5P3574

CONTRACT ID.
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PROJECT NO.
.

BRIDGE NO.
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DESCRIPTION

DATE

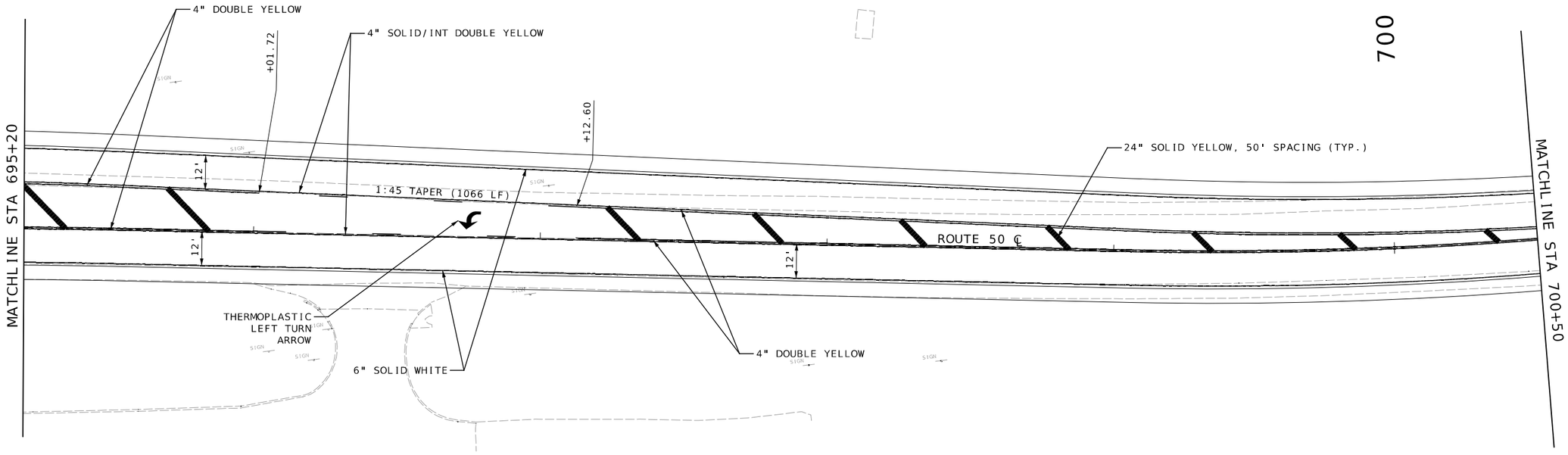
IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

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

LOCHMUELLER GROUP
411 North 10th Street, Suite 200
St. Louis, MO 63101
Phone: 314.621.3395

REV.

$FILE$ $TIME$ $DATE$



SCALE
0 20 40 60

COLLIN J. WILCOX NUMBER PE-2019035614
STATE OF MISSOURI PROFESSIONAL ENGINEER
THIS SHEET HAS BEEN SIGNED, SEALED, AND DATED ELECTRONICALLY

DATE PREPARED 4/8/2024
ROUTE 50 | STATE MO
DISTRICT CD | SHEET NO. 99
COUNTY OSAGE
JOB NO. J5P3574
CONTRACT ID. .
PROJECT NO. .
BRIDGE NO. .

DESCRIPTION | DATE

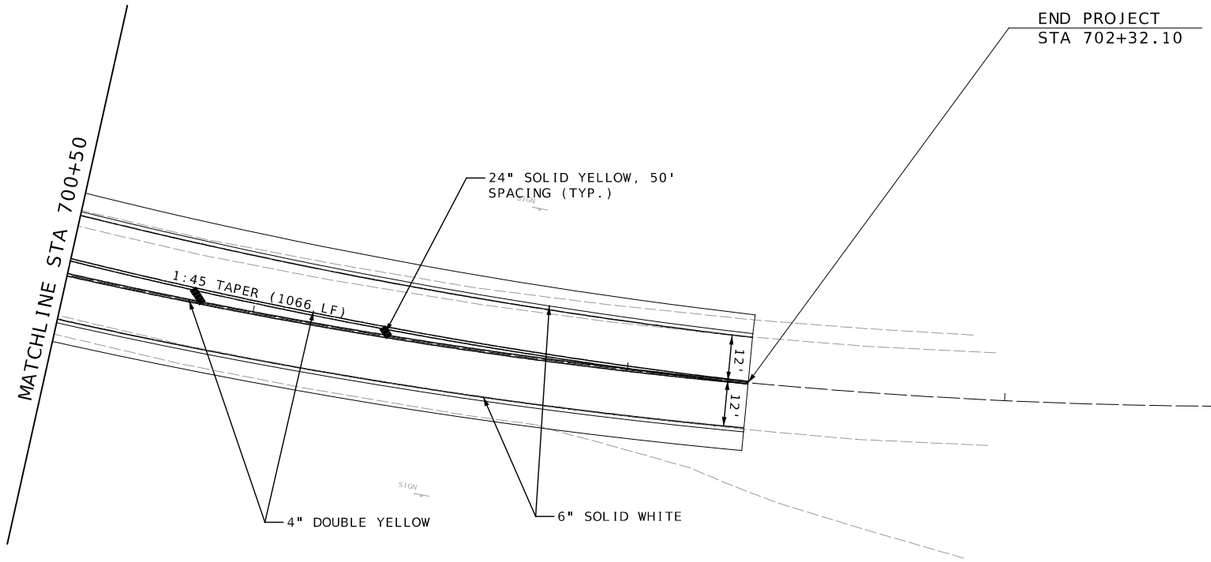
IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

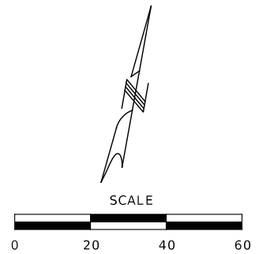
MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

LOCHMUELLER GROUP
411 North 10th Street, Suite 200
St. Louis, MO 63101
Phone: 314.621.3395

PAVEMENT MARKING
SHEET 7 OF 9

REV.
$FILE$ $TIME$ $DATE$





705

COLLIN J. WILCOX NUMBER PE-2019035614
STATE OF MISSOURI
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED, AND DATED ELECTRONICALLY

DATE PREPARED
4/8/2024

ROUTE	STATE
50	MO
DISTRICT	SHEET NO.
CD	100

COUNTY
OSAGE

JOB NO.
J5P3574

CONTRACT ID.
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PROJECT NO.
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BRIDGE NO.
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DESCRIPTION	DATE
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MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

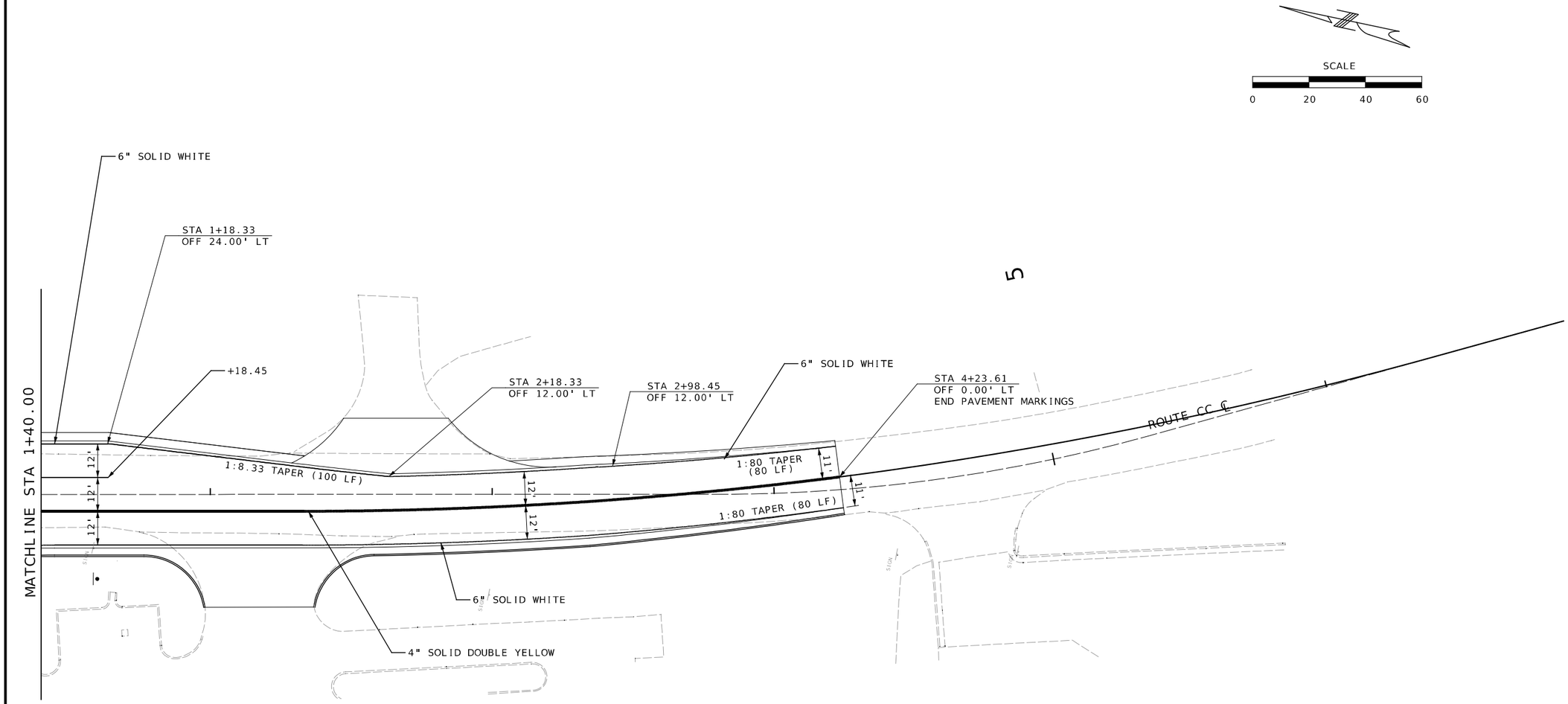
LOCHMUELLER GROUP
411 North 10th Street, Suite 200
St. Louis, MO 63101
Phone: 314.621.3395

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

PAVEMENT MARKING
SHEET 8 OF 9

REV.

$FILE$ $TIME$ $DATE$



5

PAVEMENT MARKING
SHEET 9 OF 9

COLLIN J. WILCOX
NUMBER
PE-2019035614
STATE OF MISSOURI
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED, AND DATED ELECTRONICALLY

DATE PREPARED
4/8/2024

ROUTE	STATE
50	MO
DISTRICT	SHEET NO.
CD	101

COUNTY
OSAGE

JOB NO.
J5P3574

CONTRACT ID.
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PROJECT NO.
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BRIDGE NO.
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DESCRIPTION	DATE
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MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

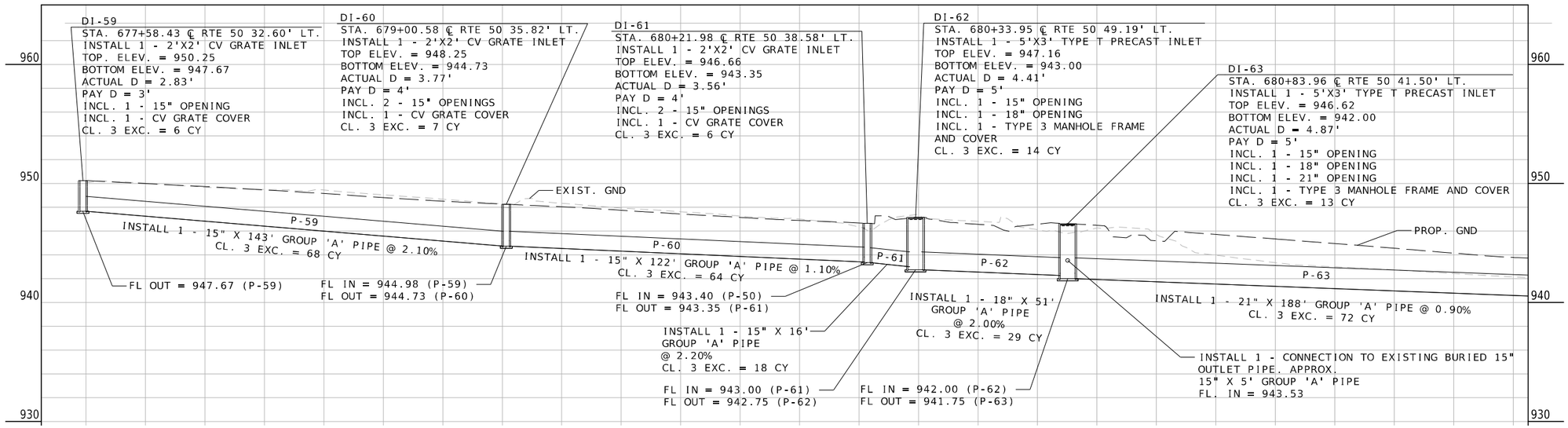
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

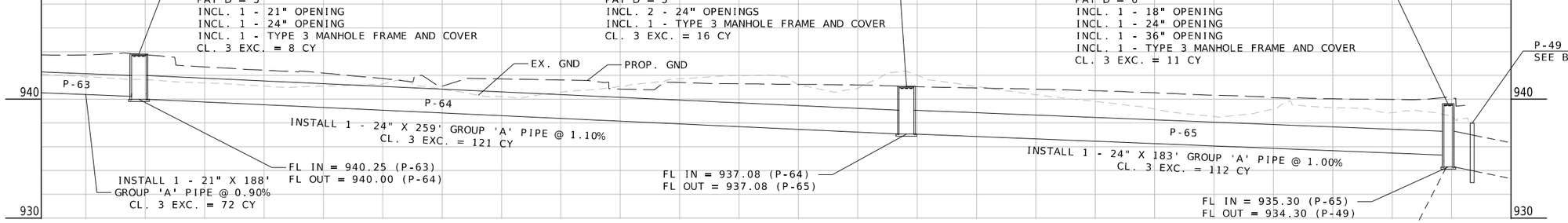
LOCHMUELLER GROUP
411 North 10th Street, Suite 200
St. Louis, MO 63101
Phone: 314.621.3395

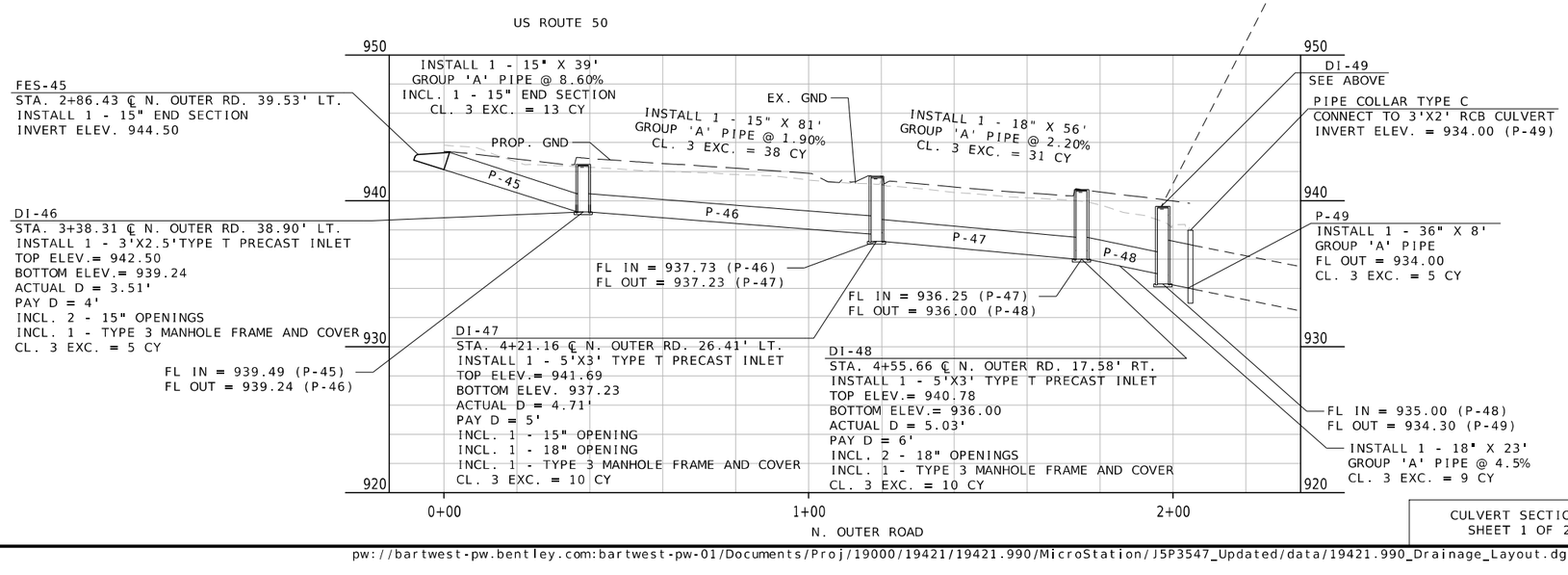
IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

REV.

$FILE$ $TIME$ $DATE$







CULVERT SECTIONS
SHEET 1 OF 2

STATE OF MISSOURI
BRYAN SCOT GREGORY
NUMBER PE-2006019659
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

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

DATE PREPARED	
3/1/2024	
ROUTE	STATE
50	MO
DISTRICT	SHEET NO.
CD	102
COUNTY	
OSAGE	
JOB NO.	
J5P3574	
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	

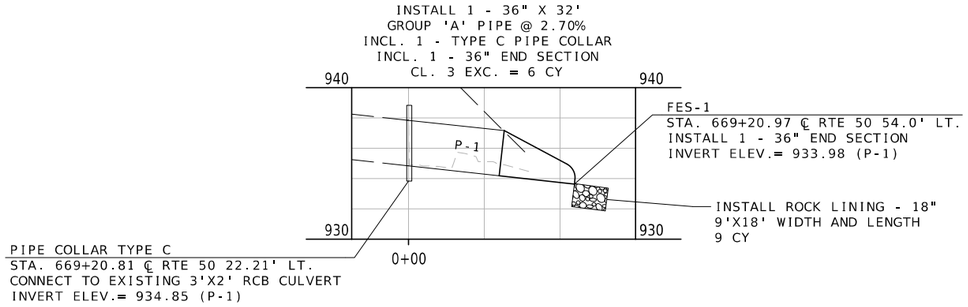
DATE	DESCRIPTION

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

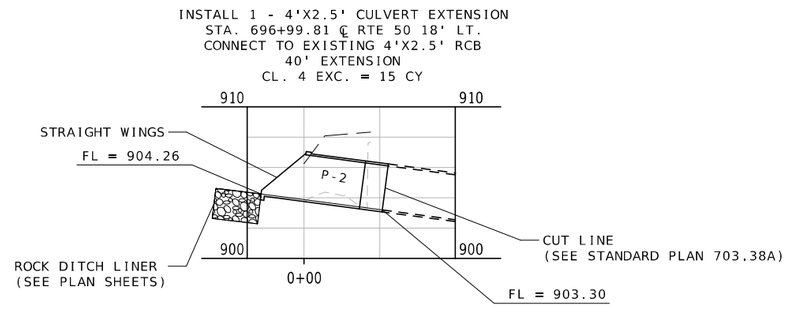
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

MoDOT

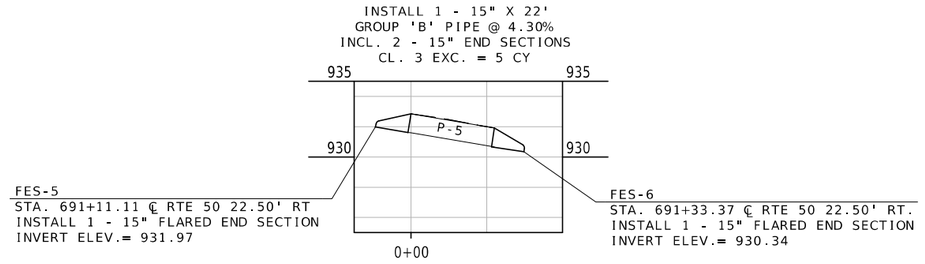
Bartlett & West
601 MONROE ST. SUITE 201 - JEFFERSON CITY, MO 65101
PHONE 573-634-3181
CERTIFICATE OF AUTHORITY NO. 000167 - ENGINEERING
WWW.BARTLETTWEST.COM



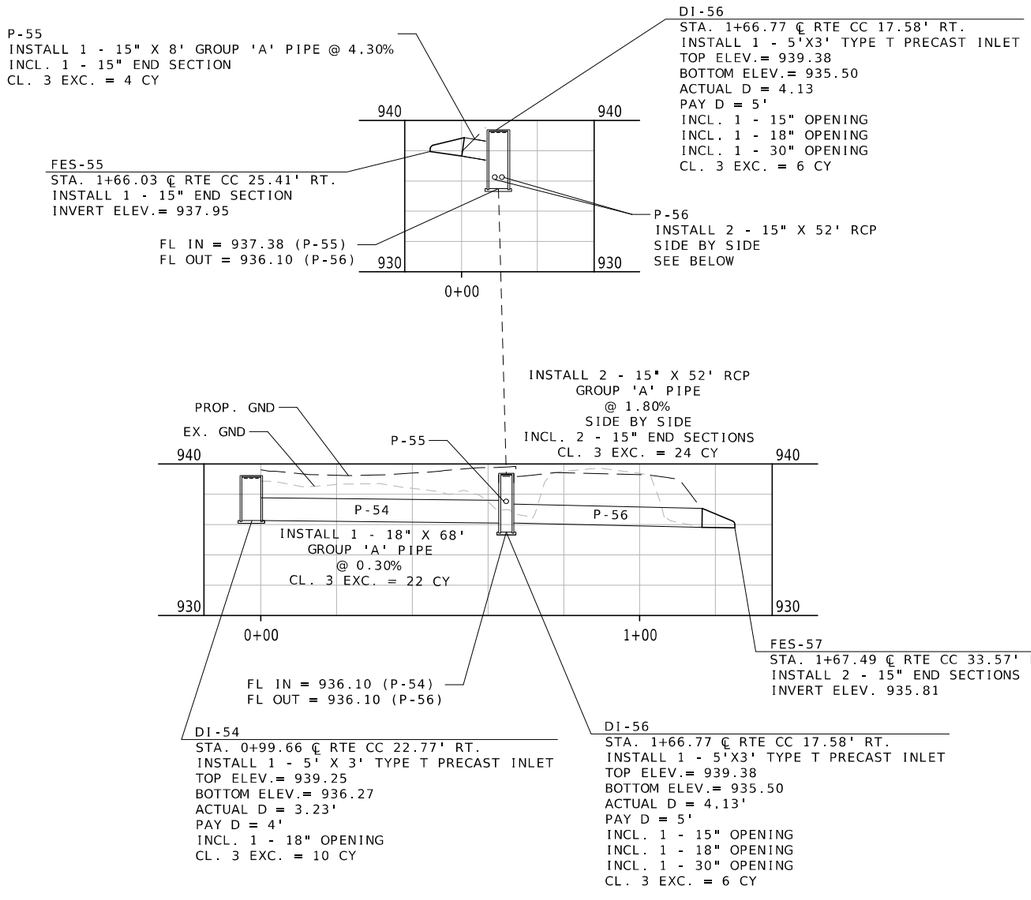
EXTENSION OF EXISTING 3X2 BOX CULVERT
US RTE 50 STA. 669+20.97



EXTENSION OF EXISTING 4X2.5 BOX CULVERT
US RTE 50 STA. 696+99.81



US RTE 50 STA. 691+22.00
OFF 22.50' RT
DITCH DRAINAGE



ROUTE CC

CULVERT SECTIONS
SHEET 2 OF 2

STATE OF MISSOURI
BRYAN SCOT GREGORY
NUMBER PE-2006019659
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED: 3/1/2024

ROUTE	STATE
50/CC	MO
DISTRICT	SHEET NO.
CD	103

COUNTY: OSAGE

JOB NO.: J5P3574

CONTRACT ID.:

PROJECT NO.:

BRIDGE NO.:

DESCRIPTION	DATE

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

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

Bartlett & West
601 MONROE ST. SUITE 201 - JEFFERSON CITY, MO 65101
PHONE 573-634-3181
CERTIFICATE OF AUTHORITY NO. 000167 - ENGINEERING
WWW.BARTLETTWEST.COM

DESIGN DESIGNATION

A.A.D.T.-2025 (ROUTE 50) = 11,316
A.A.D.T.-2045 (ROUTE 50) = 11,707
D.H.V. (ROUTE 50) = 9.80%
T (ROUTE 50) = 9.78%-25.35%
V (ROUTE 50) = 55 M.P.H.
D (ROUTE 50) = 49.7%|50.3%
FUNCTIONAL CLASS. (ROUTE 50) - PRINCIPAL ARTERIAL

NO NEW R/W REQUIRED

CONVENTIONAL SYMBOLS
(USED IN PLANS)

	EXISTING	NEW
BUILDINGS AND STRUCTURES		
GUARD RAIL		
GUARD CABLE		
CONCRETE RIGHT-OF-WAY MARKER		
STEEL RIGHT-OF-WAY MARKER		
LOCATION SURVEY MARKER		
UTILITIES		
FIBER OPTICS	-FO-	FO
OVERHEAD CABLE TV	-OTV-	OTV
UNDERGROUND CABLE TV	-UTV-	UTV
OVERHEAD TELEPHONE	-OT-	OT
UNDERGROUND TELEPHONE	-UT-	UT
OVERHEAD POWER	-OE-	OE
UNDERGROUND POWER	-UE-	UE
SANITARY SEWER	-S-	S
STORM SEWER	-SS-	SS
GAS	-G-	G
WATER	-W-	W
MANHOLE	SAN	
FIRE HYDRANT	HYD	
WATER VALVE	WV	
WATER METER	WM	
DROP INLET		
DITCH BLOCK		
GROUND MOUNTED SIGN	SIGN	
LIGHT POLE		
H-FRAME POWER POLE		
TELEPHONE PEDESTAL	PED	
FENCE		
CHAIN LINK	-V-	
WOVEN WIRE	-X-	
GATE POST		
BENCHMARK	BM	

NOTE: DASHED OR OPEN SYMBOLS INDICATE EXISTING FEATURES

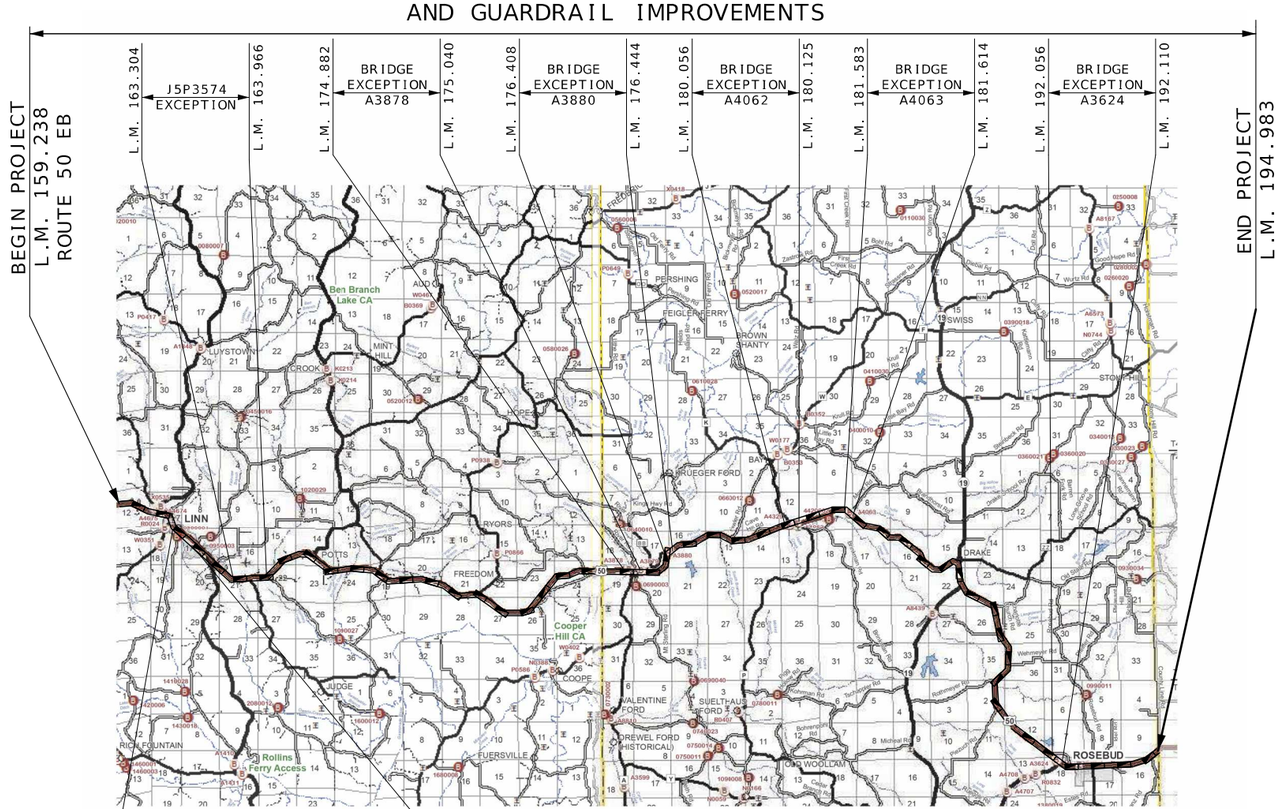
MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

PLANS FOR PROPOSED

STATE HIGHWAY
OSAGE & GASCONADE COUNTY

KEY MAP
LOCATION OF
OSAGE/GASCONADE COUNTY

PROJECT LIMITS:
COLDMILL AND RESURFACING, PAVEMENT REPAIR,
AND GUARDRAIL IMPROVEMENTS



NOT TO SCALE

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.

INDEX OF SHEETS

DESCRIPTION	SHEET NUMBER
TITLE SHEET	1
TYPICAL SECTIONS (TS) (9 SHEETS)	2
QUANTITIES (QU) (13 SHEETS)	3
SPECIAL SHEETS (SS)	4-8
PAVEMENT MARKING (PM)	9
TRAFFIC CONTROL SHEETS (TC)	10-17

LENGTH OF PROJECT

BEGINNING OF PROJECT	L.M. 159.238 EB
END OF PROJECT	L.M. 194.983 EB
APPARENT LENGTH	188,733.60 FEET
EQUATIONS AND EXCEPTIONS:	

PROJECT J5P3574		
L.M. 163.304 - 163.966	3,496	FEET
BRIDGE A3878 L.M. 174.882 - 175.040	835	FEET
BRIDGE A3880 L.M. 176.408 - 176.444	191	FEET
BRIDGE A4062 L.M. 180.056 - 180.125	365	FEET
BRIDGE A4063 L.M. 181.583 - 181.614	164	FEET
BRIDGE A3624 L.M. 192.056 - 192.110	286	FEET
TOTAL CORRECTIONS	5337	FEET
NET LENGTH OF PROJECT	183,396.6	FEET
STATE LENGTH	34.734	MILES
FOR INFORMATION ONLY ESTIMATED DISTURBED ACRES	1	ACRE

STATE OF MISSOURI
MARIA K. PETERS
NUMBER PE-2000162118
PROFESSIONAL ENGINEER
Maria Peters
09/14/2024 9:52:00 AM
MARIA K. PETERS - CIVIL
MO-PE-2000162118

DATE PREPARED
8/14/2024

ROUTE	STATE
50	MO
DISTRICT	SHEET NO.
CD	1

COUNTY
OSAGE/GASCONADE

JOB NO.
JCD0044

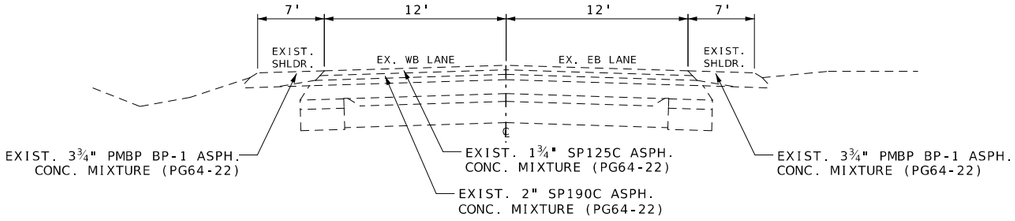
CONTRACT ID.

PROJECT NO.

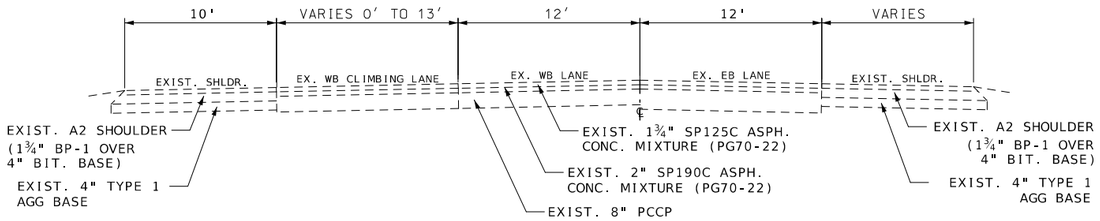
BRIDGE NO.

DATE	DESCRIPTION

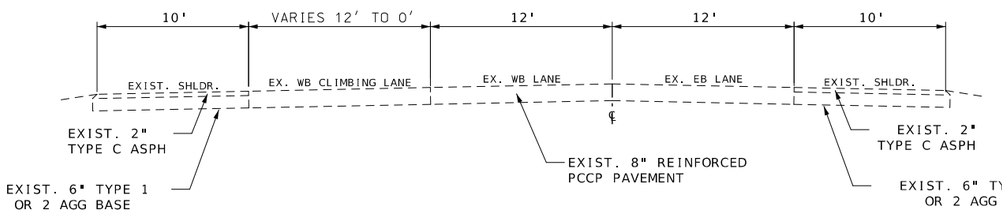
MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)



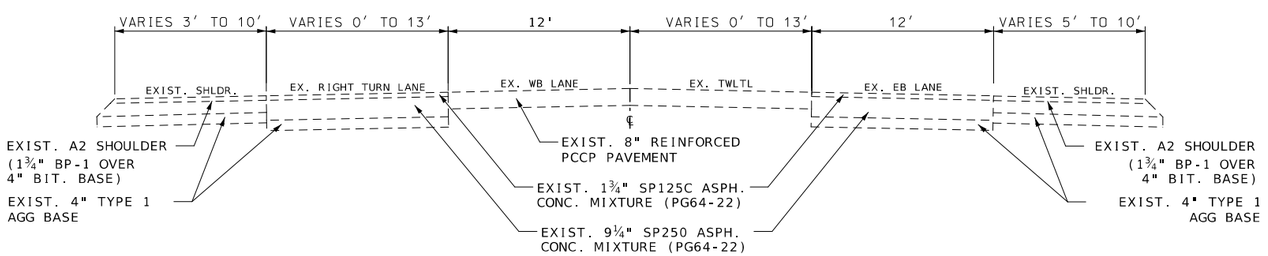
ROUTE 50 EXISTING
LOG MILE 159.238 TO LOG MILE 159.400



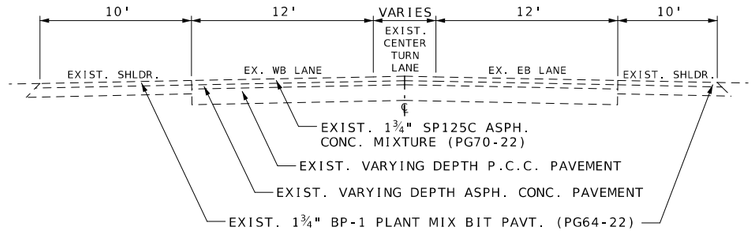
ROUTE 50 EXISTING
LOG MILE 159.400 TO LOG MILE 159.935



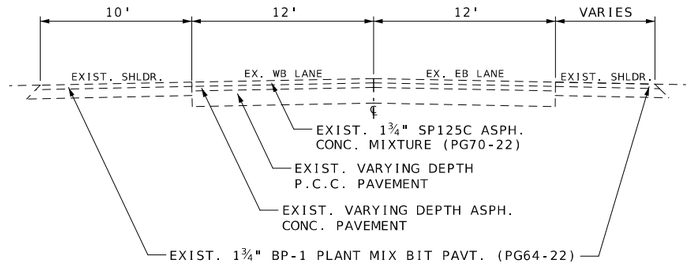
ROUTE 50 EXISTING
LOG MILE 159.935 TO LOG MILE 160.190



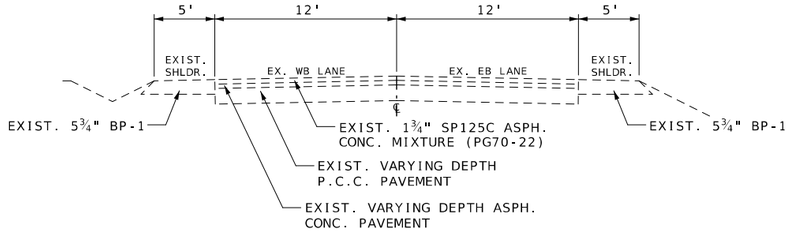
ROUTE 50 EXISTING
LOG MILE 160.190 TO LOG MILE 160.555



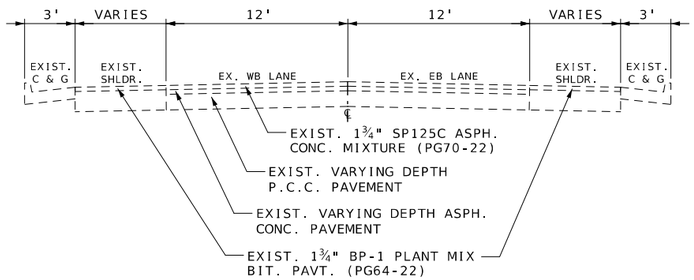
ROUTE 50 EXISTING
LOG MILE 160.555 TO LOG MILE 160.585



ROUTE 50 EXISTING
LOG MILE 160.585 TO LOG MILE 160.635



ROUTE 50 EXISTING
LOG MILE 160.635 TO LOG MILE 160.957



ROUTE 50 EXISTING
LOG MILE 160.957 TO LOG MILE 161.116

EXISTING TYPICAL SECTIONS
TYPICAL SECTION SHEET
SHEET 1 OF 9

STATE OF MISSOURI
MARIA K. PETERS
NUMBER PE-2000162118
PROFESSIONAL ENGINEER
Maria Peters
08/06/2024 12:35:16 PM
MARIA K. PETERS - CIVIL
MO-PE-2000162118

DATE PREPARED
8/6/2024

ROUTE	STATE
50	MO
DISTRICT	SHEET NO.
CD	2

COUNTY
OSAGE / GASCONADE

JOB NO.
JCD0044

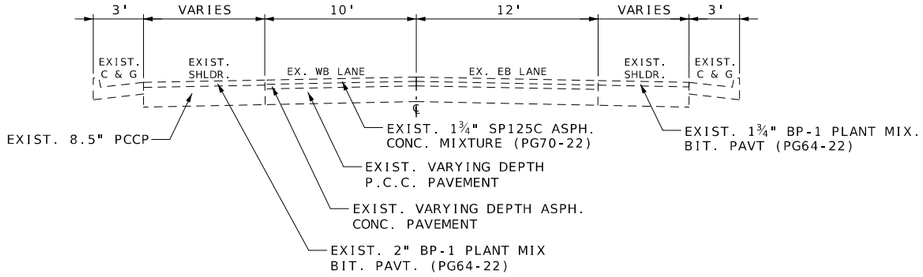
CONTRACT ID.

PROJECT NO.

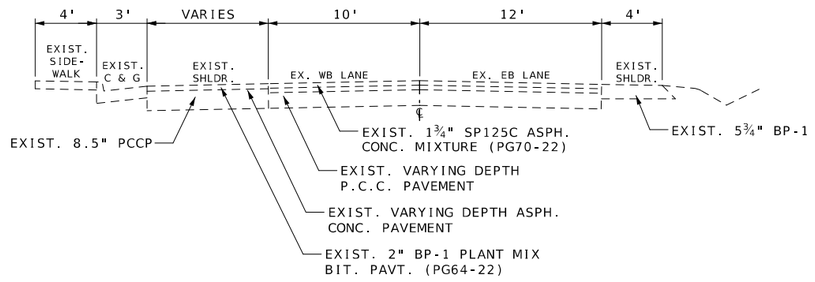
BRIDGE NO.

DESCRIPTION	DATE

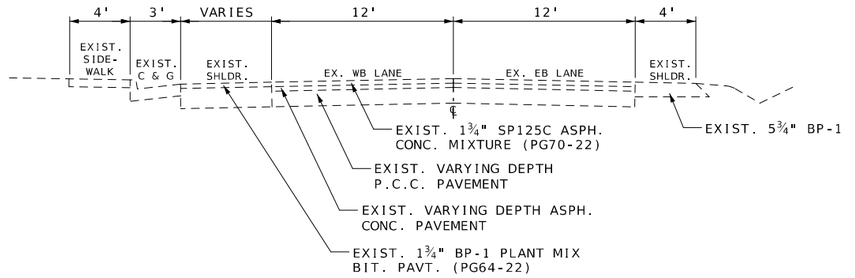
MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)



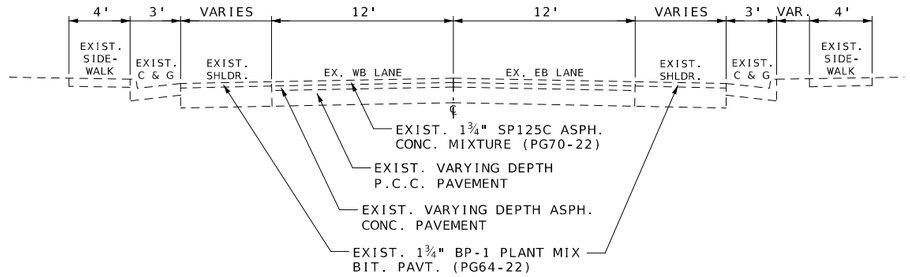
ROUTE 50 EXISTING
LOG MILE 161.116 TO LOG MILE 161.901



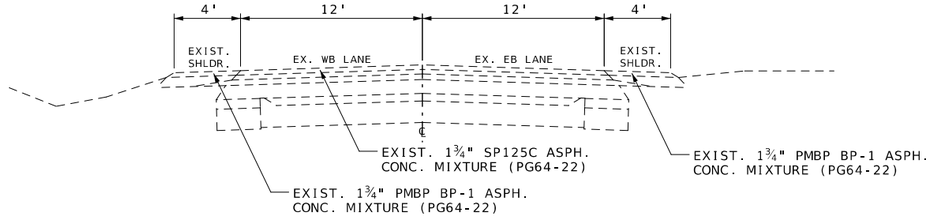
ROUTE 50 EXISTING
LOG MILE 161.901 TO LOG MILE 161.999



ROUTE 50 EXISTING
LOG MILE 161.999 TO LOG MILE 162.152
LOG MILE 162.190 TO LOG MILE 162.230



ROUTE 50 EXISTING
LOG MILE 162.152 TO LOG MILE 162.190



ROUTE 50 EXISTING
LOG MILE 162.230 TO LOG MILE 163.304
LOG MILE 163.966 TO LOG MILE 174.731
LOG MILE 176.552 TO LOG MILE 178.637
LOG MILE 181.860 TO LOG MILE 191.623
LOG MILE 192.382 TO LOG MILE 192.955
LOG MILE 193.239 TO LOG MILE 194.983

PROJECT EXCEPTIONS:
J5P3574 PROJECT LIMITS - LM 163.304 TO LM 163.966

EXISTING TYPICAL SECTIONS
TYPICAL SECTION SHEET
SHEET 2 OF 9

STATE OF MISSOURI
MARIA K. PETERS
NUMBER PE-2000162118
PROFESSIONAL ENGINEER
Maria Peters
08/06/2024 12:35:45 PM
MARIA K. PETERS - CIVIL
MO-PE-2000162118

DATE PREPARED
8/6/2024

ROUTE	STATE
50	MO
DISTRICT	SHEET NO.
CD	2

COUNTY
OSAGE / GASCONADE

JOB NO.
JCD0044

CONTRACT ID.

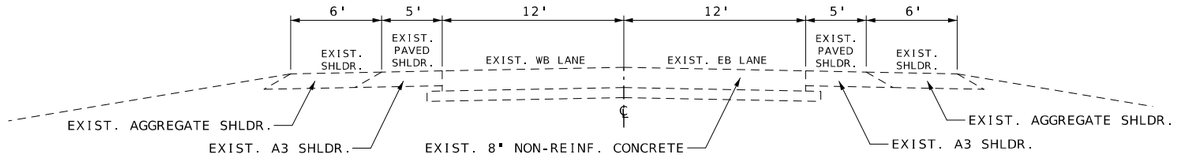
PROJECT NO.

BRIDGE NO.

DATE	DESCRIPTION

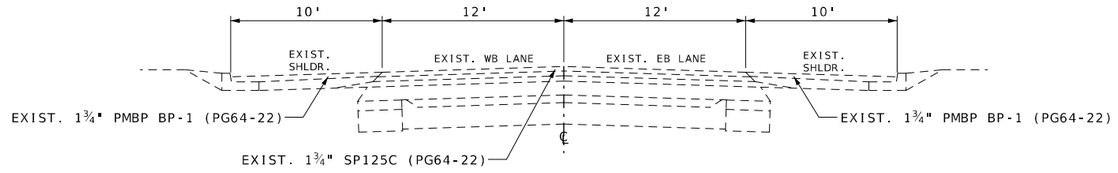
MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)



ROUTE 50
EXIST. TYPICAL SECTION ON TANGENT

LOG MI. 174.731 TO LOG MI. 174.882
LOG MI. 174.882 TO LOG MI. 175.040 (BRIDGE EXCEPTION)
LOG MI. 175.040 TO LOG MI. 176.408
LOG MI. 176.408 TO LOG MI. 176.444 (BRIDGE EXCEPTION)
LOG MI. 176.444 TO LOG MI. 176.552
LOG MI. 178.637 TO LOG MI. 180.056
LOG MI. 180.056 TO LOG MI. 180.125 (BRIDGE EXCEPTION)
LOG MI. 180.125 TO LOG MI. 181.583
LOG MI. 181.583 TO LOG MI. 181.614 (BRIDGE EXCEPTION)
LOG MI. 181.614 TO LOG MI. 181.860
LOG MI. 191.623 TO LOG MI. 192.056
LOG MI. 192.056 TO LOG MI. 192.110 (BRIDGE EXCEPTION)
LOG MI. 192.110 TO LOG MI. 192.382



ROUTE 50
LOG MI. 192.955 TO LOG MI. 193.239

EXISTING TYPICAL SECTIONS
TYPICAL SECTION SHEET
SHEET 3 OF 9

STATE OF MISSOURI
MARIA K. PETERS
NUMBER PE-2009162118
PROFESSIONAL ENGINEER
Maria Peters
08/06/2024 12:36:13 PM
MARIA K. PETERS - CIVIL
MO-PE-2009162118

DATE PREPARED
8/6/2024

ROUTE	STATE
50	MO
DISTRICT	SHEET NO.
CD	2

COUNTY
OSAGE / GASCONADE

JOB NO.
JCD0044

CONTRACT ID.

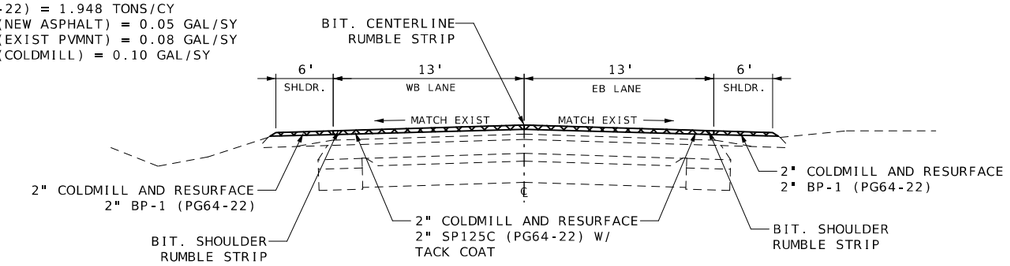
PROJECT NO.

BRIDGE NO.

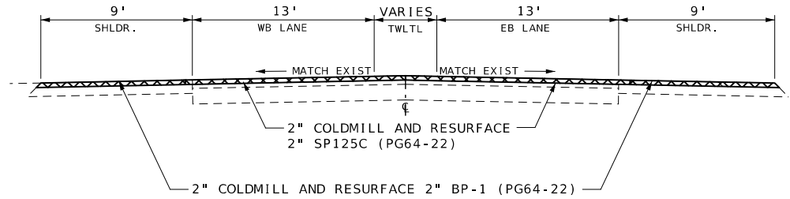
DESCRIPTION	DATE

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

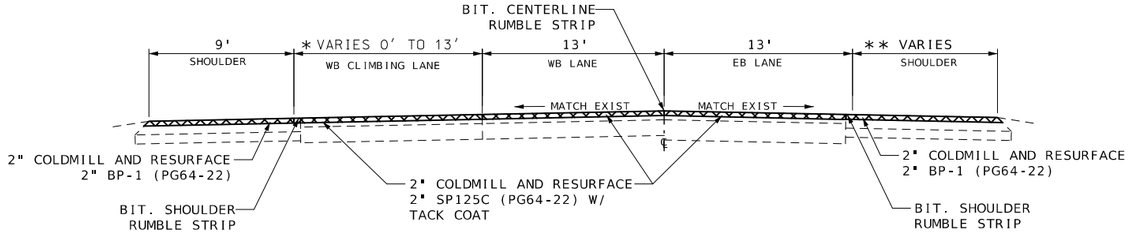
ESTIMATE FACTORS:
SP125C (PG64-22) = 1.927 TONS/CY
BP-1 (PG64-22) = 1.948 TONS/CY
TACK COAT (NEW ASPHALT) = 0.05 GAL/SY
TACK COAT (EXIST PVMNT) = 0.08 GAL/SY
TACK COAT (COLDMILL) = 0.10 GAL/SY



ROUTE 50 EXISTING
LOG MILE 159.238 TO LOG MILE 159.400



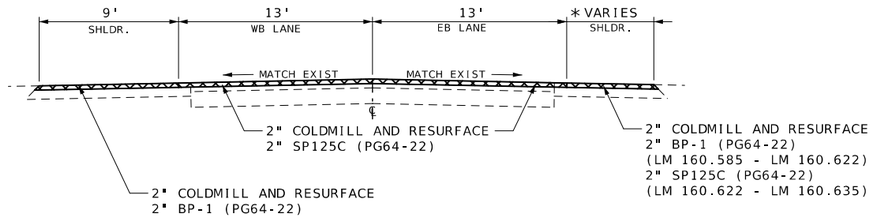
ROUTE 50 PROPOSED
LOG MILE 160.555 TO LOG MILE 160.585



* WB CLIMBING LANE
WIDTH 0' TO 13' - LM 159.400 TO LM 159.514
WIDTH 13' - LM 159.514 TO LM 160.058

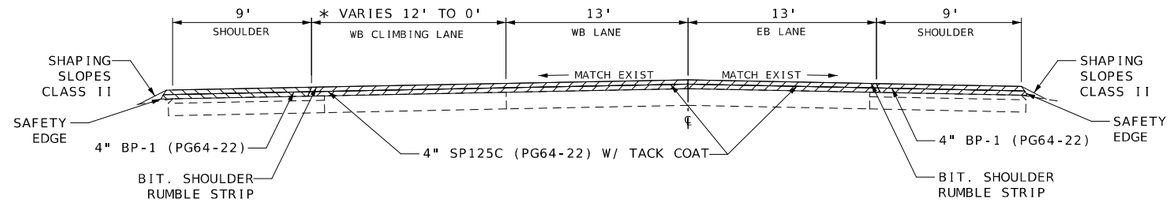
** RIGHT SHOULDER
WIDTH 5' TO 9' - LM 159.810 TO LM 159.848

ROUTE 50 EXISTING
LOG MILE 159.400 TO LOG MILE 159.935



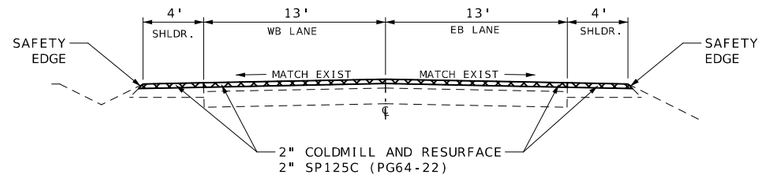
ROUTE 50 PROPOSED
LOG MILE 160.585 TO LOG MILE 160.635

* RIGHT SHOULDER
WIDTH 9' TO 4' - LM 160.622

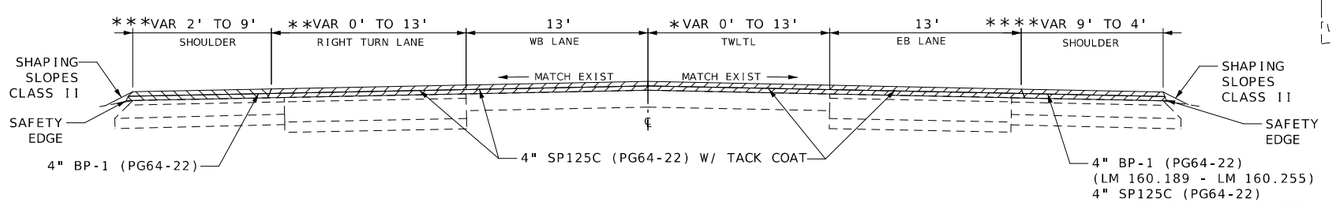


* WB CLIMBING LANE
WIDTH 13' TO 0' - LM 160.058 TO LM 160.110

ROUTE 50 EXISTING
LOG MILE 159.935 TO LOG MILE 160.190



ROUTE 50 PROPOSED
LOG MILE 160.635 TO LOG MILE 160.957



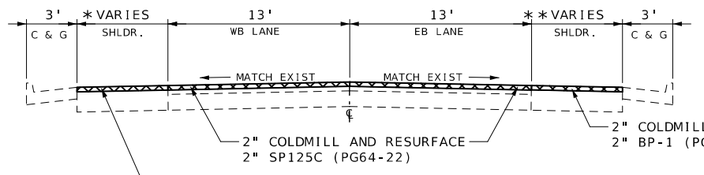
** RIGHT TURN LANE
WIDTH 13' - LM 160.422 TO LM 160.455
WIDTH 13' TO 0' - LM 160.455 TO LM 160.482

*** LEFT SHOULDER
WIDTH 2' - LM 160.422 TO LM 160.460
WIDTH 2' TO 9' - LM 160.460 TO LM 160.479

ROUTE 50 EXISTING
LOG MILE 160.190 TO LOG MILE 160.555

* TWO-WAY LEFT TURN LANE
WIDTH 0' TO 13' - LM 160.195 TO LM 160.280
WIDTH 13' - LM 160.280 TO LM 160.482
WIDTH 13' TO 0' - LM 160.482 TO LM 160.585

**** RIGHT SHOULDER
WIDTH 9' TO 4' - LM 160.189 TO LM 160.255



ROUTE 50 PROPOSED
LOG MILE 160.957 TO LOG MILE 161.116

** RIGHT SHOULDER
WIDTH 12' - LM 160.957 - LM 160.969
WIDTH 10' - LM 160.969 - LM 160.990
WIDTH 5' - LM 160.990 - LM 161.009
WIDTH 6' - LM 161.009 - LM 161.020
WIDTH 5' - LM 161.020 - LM 161.116

* LEFT SHOULDER
WIDTH 4' - LM 160.957 - LM 160.983
WIDTH 2' - LM 160.983 - LM 161.069
WIDTH 8' - LM 161.069 - LM 161.116

PROPOSED TYPICAL SECTIONS
TYPICAL SECTION SHEET
SHEET 4 OF 9

STATE OF MISSOURI
MARIA K. PETERS
NUMBER PE-2000162118
PROFESSIONAL ENGINEER
Maria Peters
08/06/2024 12:36:42 PM
MARIA K. PETERS - CIVIL
MO-PE-2000162118

DATE PREPARED
8/6/2024

ROUTE	STATE
50	MO
DISTRICT	SHEET NO.
CD	2

COUNTY
OSAGE / GASCONADE

JOB NO.
JCD0044

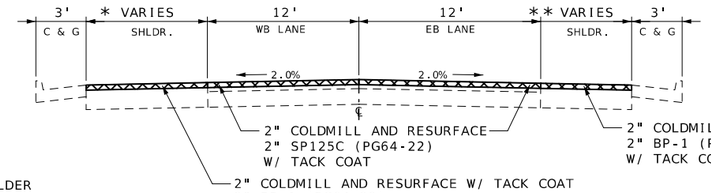
CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DESCRIPTION	DATE

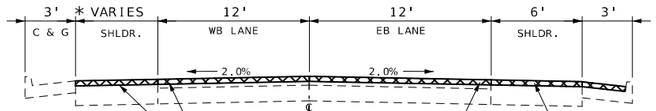
MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)



* LEFT SHOULDER
WIDTH 8' - LM 161.116 - LM 161.124
WIDTH 6' - LM 161.124 - LM 161.164
WIDTH 2' - LM 161.164 - LM 161.408

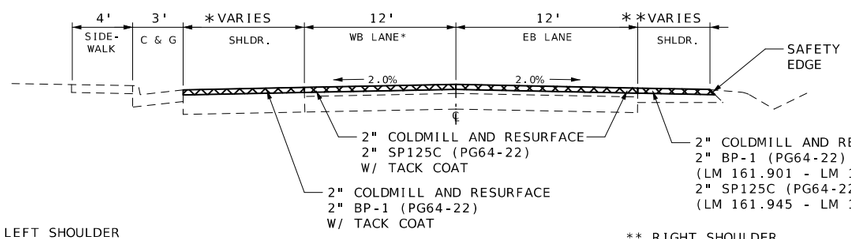
** RIGHT SHOULDER
WIDTH 5' - LM 161.116 - LM 161.184
WIDTH 9' - LM 161.184 - LM 161.408

ROUTE 50 PROPOSED
LOG MILE 161.116 TO LOG MILE 161.408



* LEFT SHOULDER
WIDTH 2' - LM 161.408 - LM 161.615
WIDTH 2' TO 8' - LM 161.615 - LM 161.665
WIDTH 8' - LM 161.665 - LM 161.704
WIDTH 8' TO 6' - LM 161.704 - LM 161.754
WIDTH 6' - LM 161.754 - LM 161.885
WIDTH 6' TO 2' - LM 161.885 - LM 161.935

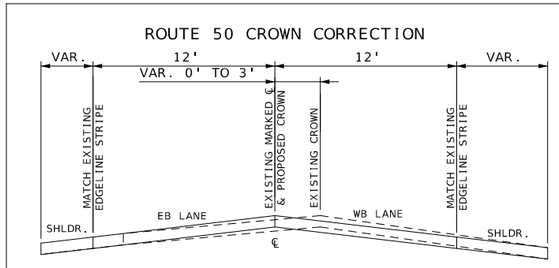
ROUTE 50 PROPOSED
LOG MILE 161.408 TO LOG MILE 161.901



* LEFT SHOULDER
WIDTH 6' TO 2' - LM 161.885 - LM 161.935
WIDTH 2' TO 8' - LM 161.935 - LM 161.974
WIDTH 8' - LM 161.974 - LM 161.999

** RIGHT SHOULDER
WIDTH 9' - LM 161.901 - LM 161.945
WIDTH 4' - LM 161.945 - LM 161.999

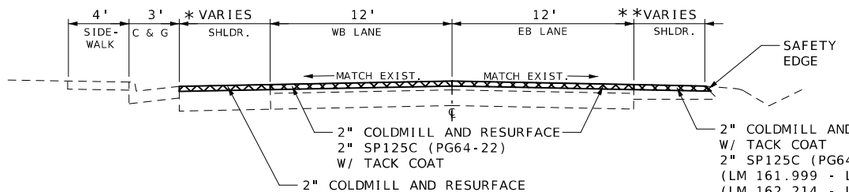
ROUTE 50 PROPOSED
LOG MILE 161.901 TO LOG MILE 161.999



CROSS SECTION APPLIES TO L.M. 161.116 - L.M. 161.999
PROPOSED EDGELINE AND CENTERLINE PAVEMENT
MARKING TO MATCH EXISTING PAVEMENT MARKING

NOT TO SCALE

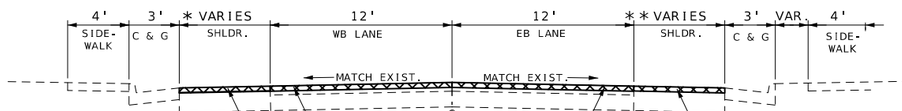
ESTIMATE FACTORS:
SP125C (PG64-22) = 1.927 TONS/CY
BP-1 (PG64-22) = 1.948 TONS/CY
TACK COAT (NEW ASPHALT) = 0.05 GAL/SY
TACK COAT (EXIST PVMNT) = 0.08 GAL/SY
TACK COAT (COLDMILL) = 0.10 GAL/SY



* LEFT SHOULDER
WIDTH 8' - LM 161.999 - LM 162.144
WIDTH 11' - LM 162.144 - LM 162.152
WIDTH 11' TO 4' - LM 162.184 TO LM 162.230

** RIGHT SHOULDER
WIDTH 4' - LM 161.999 - LM 162.145
WIDTH 11' - LM 162.145 - LM 162.181
WIDTH 4' - LM 162.214 - LM 162.230

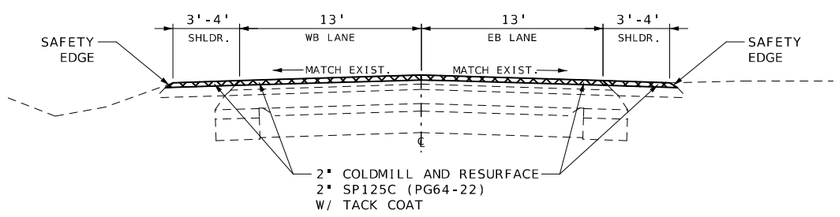
ROUTE 50 PROPOSED
LOG MILE 161.999 TO LOG MILE 162.152
LOG MILE 162.190 TO LOG MILE 162.230



* LEFT SHOULDER
WIDTH 11' - LM 162.152 - LM 162.184
WIDTH 11' TO 4' - LM 162.184 TO LM 162.230

** RIGHT SHOULDER
WIDTH 11' - LM 162.145 - LM 162.181

ROUTE 50 PROPOSED
LOG MILE 162.152 TO LOG MILE 162.190



ROUTE 50 PROPOSED
LOG MILE 162.230 TO LOG MILE 163.304
LOG MILE 163.966 TO LOG MILE 174.731
LOG MILE 176.552 TO LOG MILE 178.637
LOG MILE 181.860 TO LOG MILE 191.623
LOG MILE 192.382 TO LOG MILE 192.955
LOG MILE 193.239 TO LOG MILE 194.983

PROPOSED TYPICAL SECTIONS
TYPICAL SECTION SHEET
SHEET 5 OF 9

STATE OF MISSOURI
MARIA K. PETERS
NUMBER PE-2000162118
PROFESSIONAL ENGINEER
Maria Peters
08/06/2024 12:37:12 PM
MARIA K. PETERS - CIVIL
MO-PE-2000162118

DATE PREPARED
8/6/2024

ROUTE	STATE
50	MO
DISTRICT	SHEET NO.
CD	2

COUNTY
OSAGE / GASCONADE

JOB NO.
JCD0044

CONTRACT ID.

PROJECT NO.

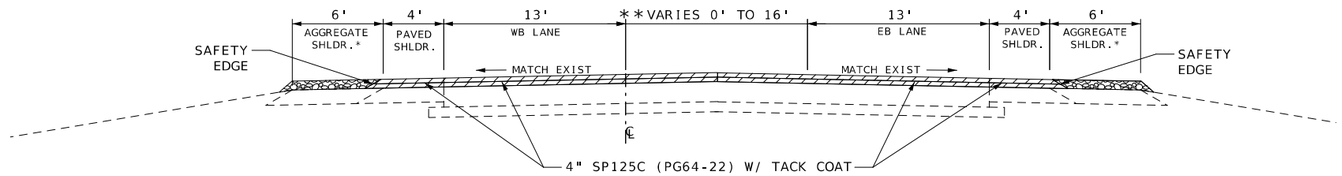
BRIDGE NO.

DESCRIPTION

DATE

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

ESTIMATE FACTORS:
SP125C (PG64-22) = 1.927 TONS/CY
BP-1 (PG64-22) = 1.948 TONS/CY
TACK COAT (NEW ASPHALT) = 0.05 GAL/SY
TACK COAT (EXIST PVMNT) = 0.08 GAL/SY
TACK COAT (COLDMILL) = 0.10 GAL/SY

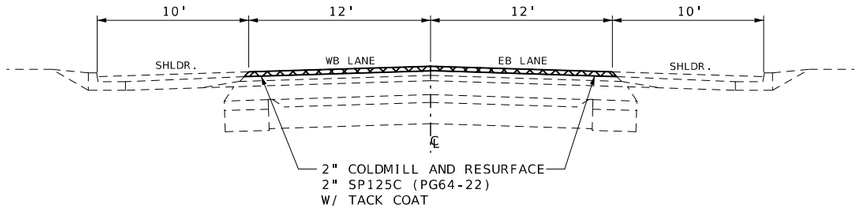


ROUTE 50
PROPOSED TYPICAL SECTION ON TANGENT

LOG MI. 174.731 TO LOG MI. 174.882
LOG MI. 174.882 TO LOG MI. 175.040 (BRIDGE EXCEPTION)
LOG MI. 175.040 TO LOG MI. 176.408
LOG MI. 176.408 TO LOG MI. 176.444 (BRIDGE EXCEPTION)
LOG MI. 176.444 TO LOG MI. 176.552
LOG MI. 178.637 TO LOG MI. 180.056
LOG MI. 180.056 TO LOG MI. 180.125 (BRIDGE EXCEPTION)
LOG MI. 180.125 TO LOG MI. 181.583
LOG MI. 181.583 TO LOG MI. 181.614 (BRIDGE EXCEPTION)
LOG MI. 181.614 TO LOG MI. 181.860
LOG MI. 191.623 TO LOG MI. 192.056
LOG MI. 192.056 TO LOG MI. 192.110 (BRIDGE EXCEPTION)
LOG MI. 192.110 TO LOG MI. 192.382

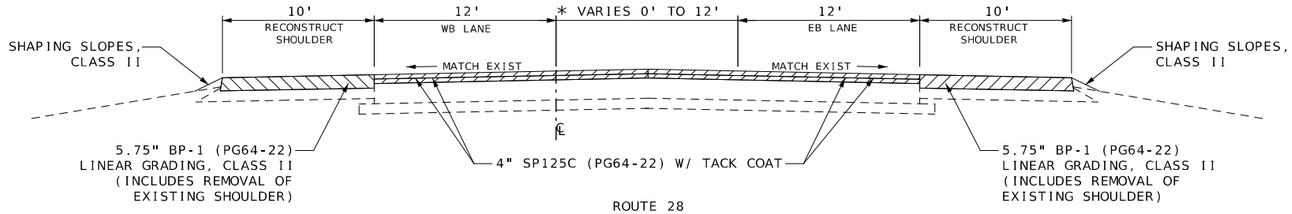
* GRAVEL (A) OR CRUSHED STONE (B)

** WIDTH 26' TO 42' - LM 192.110 - LM 192.177
WIDTH 42' - LM 192.177 - LM 192.226
WIDTH 42' TO 26' - LM 192.226 - LM 192.295



ROUTE 50
PROPOSED TYPICAL SECTION ON TANGENT

LOG MI. 192.955 TO LOG MI. 193.239



ROUTE 28
PROPOSED TYPICAL SECTION ON TANGENT

LOG MI. 71.035 TO LOG MI. 71.260

* WIDTH 0' - LM 71.035 - LM 71.162
* WIDTH 0' TO 12' - LM 71.162 - LM 71.181
* WIDTH 12' - LM 71.181 - LM 71.260

PROPOSED TYPICAL SECTIONS
TYPICAL SECTION SHEET
SHEET 6 OF 9

STATE OF MISSOURI
MARIA K. PETERS
NUMBER PE-2000162118
PROFESSIONAL ENGINEER
Maria Peters
08/14/2024 9:52:37 AM
MARIA K. PETERS - CIVIL
MO-PE-2000162118

DATE PREPARED
8/14/2024

ROUTE	STATE
50	MO
DISTRICT	SHEET NO.
CD	2

COUNTY
OSAGE / GASCONADE

JOB NO.
JCD0044

CONTRACT ID.

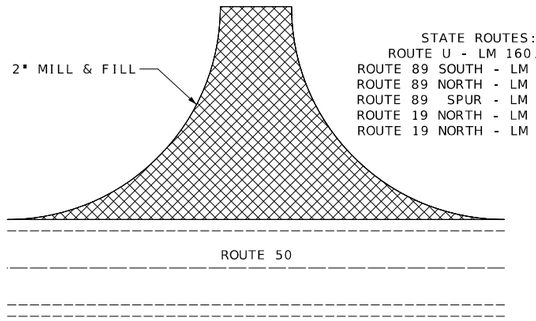
PROJECT NO.

BRIDGE NO.

DESCRIPTION	DATE

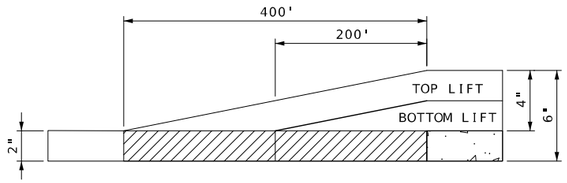
MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

TYPICAL SECTION
(AT STATE ROUTES WITHIN MILL & FILL PORTION OF PROJECT)

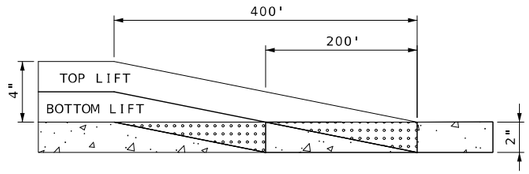


STATE ROUTES:
ROUTE U - LM 160.824
ROUTE 89 SOUTH - LM 162.201
ROUTE 89 NORTH - LM 165.540
ROUTE 89 SPUR - LM 167.530
ROUTE 19 NORTH - LM 185.154
ROUTE 19 NORTH - LM 185.281

MODOT STANDARD PLAN 401.00C
SHOULDER SAFETY EDGE
(SHOULDER WIDTH 4' AND LESS)
2" & 4" DEPTH



COLDMILL & RESURFACE/OVERLAY TRANSITION (BITUMINOUS)



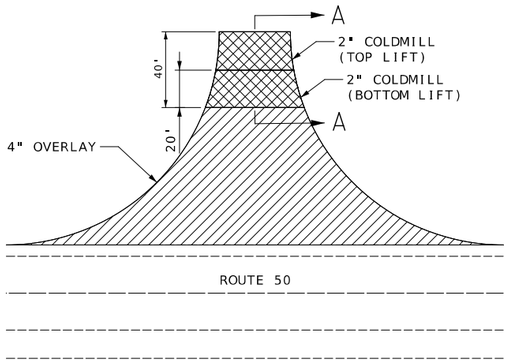
MODIFIED COLDMILL TRANSITION AT BRIDGE EXCEPTION (CONCRETE)

COLDMILLING IN ASPHALT

EXISTING CONCRETE

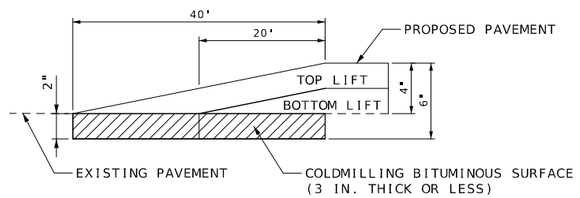
MODIFIED COLDMILLING (DEPTH TRANSITION) IN CONCRETE

TYPICAL SECTION
(AT STATE ROUTES WITHIN OVERLAY PORTION OF PROJECT)



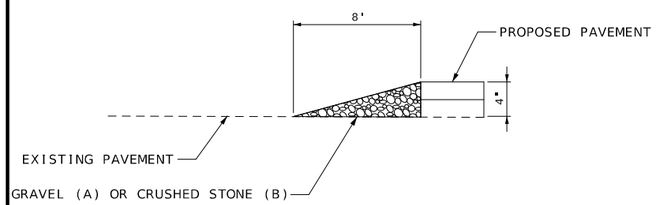
STATE ROUTES:
ROUTE W - LM 160.190
ROUTE 100 - LM 160.352
ROUTE A - LM 175.270
ROUTE BB - LM 176.484
ROUTE K - LM 179.863
ROUTE P - LM 179.863
ROUTE 28 - LM 192.157

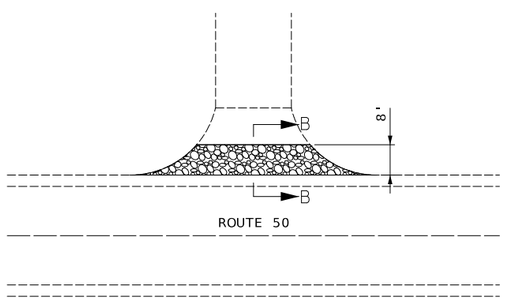
SECTION A-A



TYPICAL SECTION
(AT EXISTING GRAVEL PRIVATE ENTRANCES OR COUNTY ROADS WITHIN THE OVERLAY PORTION OF THE PROJECT)
*TAPER AT 1:1 FOR FIELD ENTRANCES

SECTION B-B



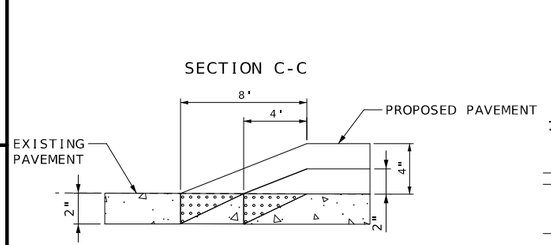


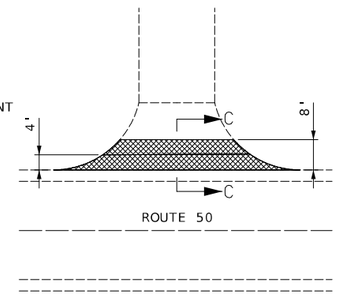
NOTE:
LOG MILES ARE APPROXIMATE.
VERIFY ACTUAL LOCATIONS IN THE FIELD.

NOT TO SCALE

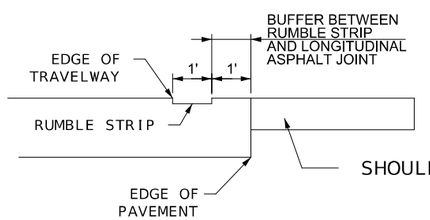
TYPICAL SECTION
(AT EXISTING ASPHALT OR CONCRETE PRIVATE ENTRANCES OR COUNTY ROADS WITHIN OVERLAY PORTION OF THE PROJECT)

SECTION C-C





MODIFIED COLDMILLING (DEPTH TRANSITION)



TYPICAL SECTION
BITUMINOUS SHOULDER
RUMBLE STRIP DETAILS

TYPICAL SECTION
ENTRANCE DETAILS
SHEET 7 OF 9

STATE OF MISSOURI
MARIA K. PETERS
NUMBER PE-2000162118
PROFESSIONAL ENGINEER
Maria Peters
08/06/2024 12:38:44 PM
MARIA K. PETERS - CIVIL
MO-PE-2000162118

DATE PREPARED
8/6/2024

ROUTE	STATE
50	MO
DISTRICT	SHEET NO.
CD	2

COUNTY
OSAGE / GASCONADE

JOB NO.
JCD0044

CONTRACT ID.

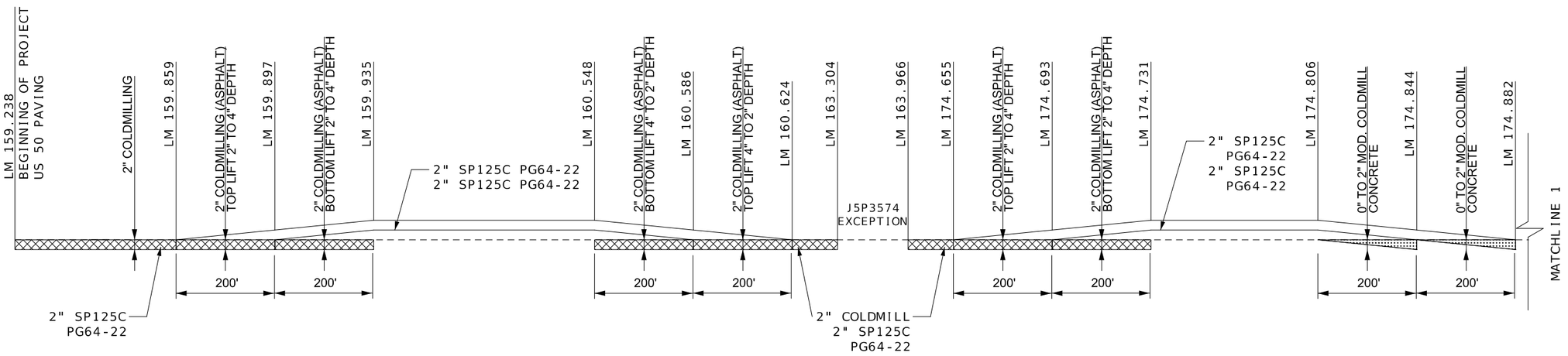
PROJECT NO.

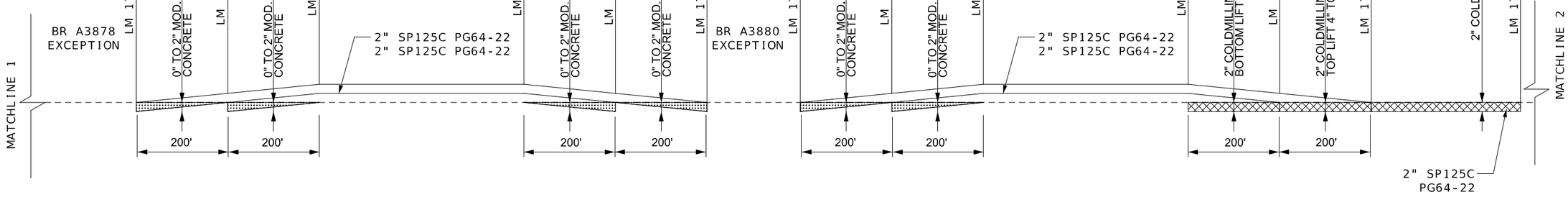
BRIDGE NO.

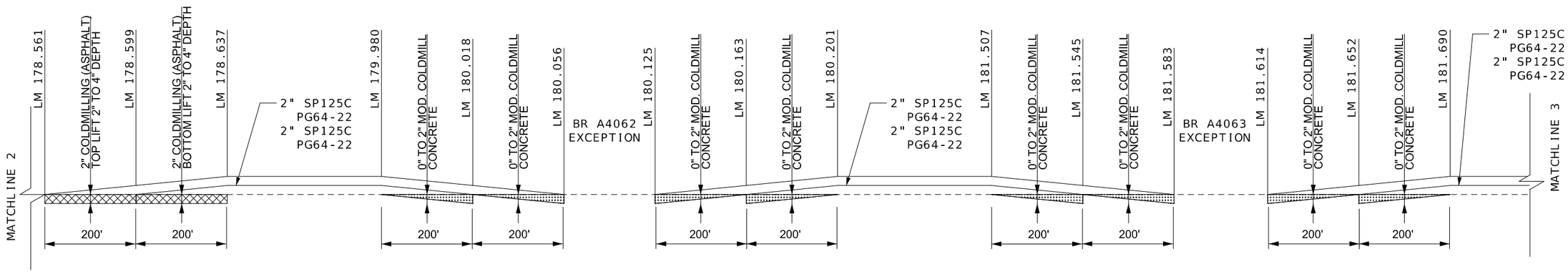
DESCRIPTION	DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)







TYPICAL SECTION SHEET
PAVEMENT DEPTH TRANSITIONS
SHEET 8 OF 9

STATE OF MISSOURI
MARIA K. PETERS
NUMBER PE-2000162118
PROFESSIONAL ENGINEER
Maria Peters
08/06/2024 12:39:15 PM
MARIA K. PETERS - CIVIL
MO-PE-2000162118

DATE PREPARED
8/6/2024

ROUTE	STATE
50	MO
DISTRICT	SHEET NO.
CD	2

COUNTY
OSAGE / GASCONADE

JOB NO.
JCD0044

CONTRACT ID.

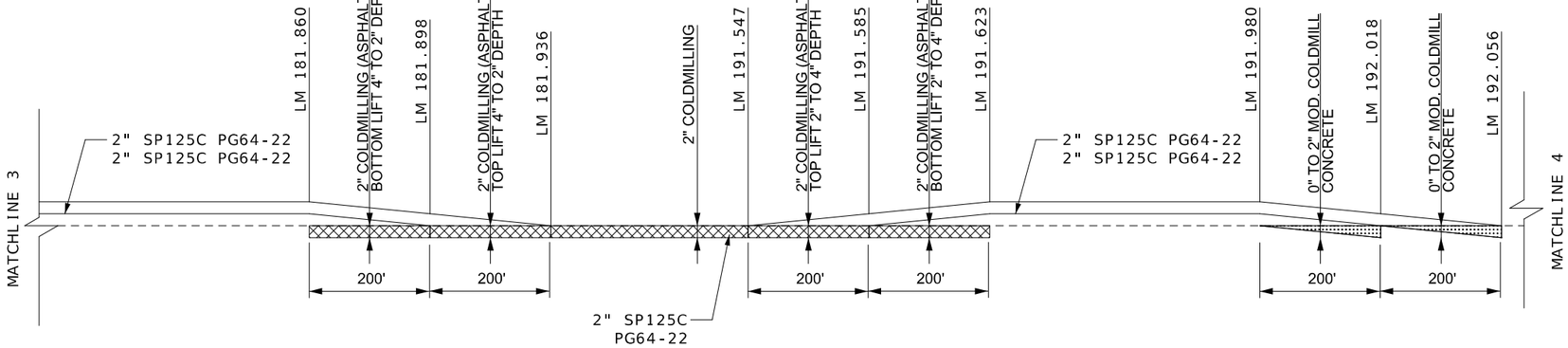
PROJECT NO.

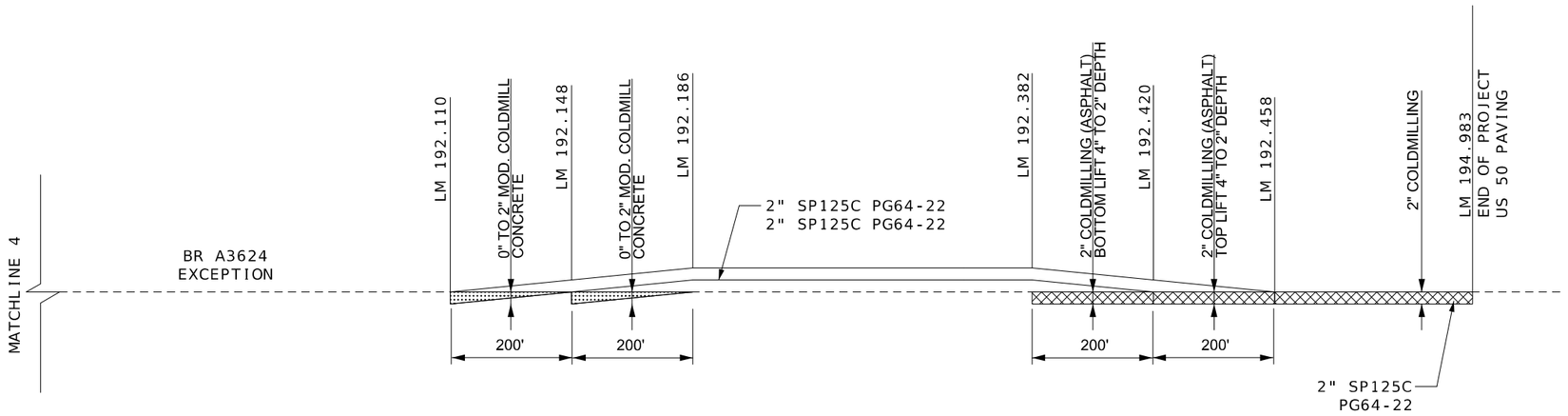
BRIDGE NO.

DATE	DESCRIPTION

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)





TYPICAL SECTION SHEET
PAVEMENT DEPTH TRANSITIONS
SHEET 9 OF 9

STATE OF MISSOURI
MARIA K. PETERS
NUMBER PE-2000162118
PROFESSIONAL ENGINEER
Maria Peters
05/06/2024 12:39:41 PM
MARIA K. PETERS - CIVIL
MO-PE-2000162118

DATE PREPARED
8/6/2024

ROUTE	STATE
50	MO
DISTRICT	SHEET NO.
CD	2

COUNTY
OSAGE / GASCONADE

JOB NO.
JCD0044

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DATE	DESCRIPTION

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

REMOVALS OF IMPROVEMENTS

ITEM	LOCATION	QUANTITY	REMARKS
GUARDRAIL INCLUDING END TERMINALS AND TRANSITIONS	GASCONADE RIVER (BRIDGE A3878)	680 L.F.	170 L.F. PER BRIDGE CORNER
GUARDRAIL INCLUDING END TERMINALS AND TRANSITIONS	PIN OAK CREEK (BRIDGE A3880)	680 L.F.	170 L.F. PER BRIDGE CORNER
GUARDRAIL INCLUDING END TERMINALS	ROUTE 50 - RT	1896 L.F.	FOWLER RD (CR 235)
GUARDRAIL INCLUDING END TERMINALS AND TRANSITIONS	SECOND CREEK (BRIDGE A4062)	680 L.F.	170 L.F. PER BRIDGE CORNER
GUARDRAIL INCLUDING END TERMINALS AND TRANSITIONS	SCHULTE CREEK (BRIDGE A4063)	680 L.F.	170 L.F. PER BRIDGE CORNER
GUARDRAIL INCLUDING END TERMINALS AND TRANSITIONS	MISSOURI EASTERN RAILROAD (BRIDGE A3624)	680 L.F.	170 L.F. PER BRIDGE CORNER
PIPE POST AND ANCHOR	ROUTE 50 & ROUTE 100 INTERSECTION	1 EA	SALVAGE AND REUSE STOP SIGN
PIPE POST AND ANCHOR	ROUTE 50 & ROUTE 28 INTERSECTION	1 EA	SALVAGE AND REUSE STOP SIGN
	USE	1 LUMP SUM	

MOBILIZATION

TOTAL	1 LUMP SUM

COLDMILLING BITUMINOUS PAVEMENT FOR REMOVAL OF SURFACING (3 IN. THICK OR LESS)

LOG MILE	LOG MILE	LENGTH FEET	AVG. WIDTH FEET	COLDMILLING SY	REMARKS
MAINLINE					
159.238	159.400	856	26	2472.9	
159.400	159.514	602	32.5	2173.9	TAPER (26'-39')
159.514	159.935	2223	39	9633.0	CLIMBING LANE
160.548	160.585	196	28	609.8	TAPER
160.585	160.635	264	26	762.7	
160.635	161.116	2540	26	7337.8	
161.116	162.230	5882	24	15685.3	
162.230	163.304	5671	26	16382.9	
163.304	163.966	3496	-	-	J5P3574 EXCEPTION
163.966	174.731	56840	26	164204.4	
176.552	178.637	11009	26	31803.8	
181.860	191.623	51549	26	148919.3	
192.382	192.899	2730	26	7886.7	
192.899	193.239	1796	24	4789.3	
193.239	194.983	9209	26	26603.8	
INTERSECTIONS					
160.190		20	VAR.	92.8	TOP LIFT MILLING - ROUTE W
160.190		20	VAR.	125.4	BOTTOM LIFT MILLING - ROUTE W
160.352		20	VAR.	116.9	TOP LIFT MILLING - ROUTE 100
160.352		20	VAR.	175.0	BOTTOM LIFT MILLING - ROUTE 100
160.824		65	VAR.	428.7	ROUTE U
162.201		76	VAR.	623.5	ROUTE 89 - SOUTH
165.540		130	VAR.	527.5	ROUTE 89 - NORTH
167.530		VAR.	VAR.	1067.1	ROUTE 89 SPUR
175.270		20	24	53.3	TOP LIFT MILLING - ROUTE A
175.270		20	25	55.6	BOTTOM LIFT MILLING - ROUTE A
176.484		20	VAR.	69.7	TOP LIFT - ROUTE BB
176.484		20	VAR.	181.7	BOTTOM LIFT - ROUTE BB
179.862		20	VAR.	66.4	TOP LIFT - ROUTE K
179.862		20	VAR.	78.5	BOTTOM LIFT - ROUTE K
179.862		20	VAR.	62.5	TOP LIFT - ROUTE P
179.862		20	VAR.	165.2	BOTTOM LIFT - ROUTE P
185.154				571.3	ROUTE 19
185.281				588.1	ROUTE 19
175.153		4	46	20.4	RIVER RD (CR 221) - BOTTOM LIFT
175.153		4	37	16.4	RIVER RD (CR 221) - TOP LIFT
175.273		4	84	37.3	SCHWEGLER RD (NO OUTLET) - BOTTOM LIFT
175.273		4	75	33.3	SCHWEGLER RD (NO OUTLET) - TOP LIFT
178.691		4	122	54.2	CAVE HILL RD - BOTTOM LIFT
178.681		4	93	41.3	CAVE HILL RD - TOP LIFT
181.042		4	105	46.7	RUSKAUP RD - BOTTOM LIFT
181.042		4	75	33.3	RUSKAUP RD - TOP LIFT
181.731		4	83	36.9	BIT. PRIVATE ENTRANCE - BOTTOM LIFT
181.731		4	72	32.0	BIT. PRIVATE ENTRANCE - TOP LIFT
191.777		4	87	38.7	NOWACK RD - BOTTOM LIFT
191.777		4	71	31.6	NOWACK RD - TOP LIFT
			SUBTOTAL 1	444737	

GRAVEL (A) OR CRUSHED STONE (B)

LOG MILE	LOG MILE	LOCATION	TONS	REMARKS
160.002		ROUTE 50 - RT	5.5	PRIVATE ENTRANCE
160.052		ROUTE 50 - LT	6.2	PRIVATE ENTRANCE
160.141		ROUTE 50 - RT	5.5	PRIVATE ENTRANCE
160.167		ROUTE 50 - LT	6.9	PRIVATE ENTRANCE
160.282		ROUTE 50 - RT	13.8	TURN BACK NOW TRL
175.083	176.358	ROUTE 50 - LT	698.1	6' LEFT SHOULDER
175.083	176.363	ROUTE 50 - RT	700.9	6' RIGHT SHOULDER
176.485	176.582	ROUTE 50 - LT	53.1	6' LEFT SHOULDER
176.485	176.582	ROUTE 50 - RT	53.1	6' RIGHT SHOULDER
178.561	180.008	ROUTE 50 - RT	792.3	6' RIGHT SHOULDER
178.591	180.003	ROUTE 50 - LT	773.1	6' LEFT SHOULDER
180.150	181.536	ROUTE 50 - LT	758.9	6' LEFT SHOULDER
180.162	181.532	ROUTE 50 - RT	750.2	6' RIGHT SHOULDER
181.647	181.860	ROUTE 50 - LT	116.6	6' LEFT SHOULDER
181.647	181.875	ROUTE 50 - RT	124.8	6' RIGHT SHOULDER
191.587	192.012	ROUTE 50 - LT	232.7	6' LEFT SHOULDER
191.617	191.980	ROUTE 50 - RT	198.8	6' RIGHT SHOULDER
192.142	192.386	ROUTE 50 - LT	133.6	6' LEFT SHOULDER
192.177	192.402	ROUTE 50 - RT	123.2	6' RIGHT SHOULDER
		TOTAL	5547.3	
		USE	5547	

SUMMARY OF QUANTITIES
SHEET 1 OF 13

STATE OF MISSOURI
MARIA K. PETERS
NUMBER PE-2000162118
PROFESSIONAL ENGINEER
Maria Peters
08/06/2024 12:40:13 PM
MARIA K. PETERS - CIVIL
MO-PE-2000162118

DATE PREPARED
8/6/2024

ROUTE	STATE
50	MO
DISTRICT	SHEET NO.
CD	3

COUNTY
OSAGE / GASCONADE

JOB NO.
JCD0044

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)

COLDMILLING BIT PAVEMENT FOR REMOVAL OF SURFACING (3 IN. THICK OR LESS)

LOG MILE	LOG MILE	LENGTH FEET	AVG. WIDTH FEET	COLDMILLING SY	REMARKS
LEFT SHOULDER					
159.238	159.400	856	6	570.7	
159.400	159.935	2825	9	2825.0	
160.555	160.635	423	9	423.0	
160.635	160.957	1701	4	756.0	
160.957	160.983	138	4	61.3	
160.983	161.069	455	2	101.1	
161.069	161.124	291	8	258.7	
161.124	161.164	212	6	141.3	
161.164	161.615	2382	2	529.3	
161.615	161.665	264	5	146.7	TAPER (2'-8')
161.665	161.704	206	8	183.1	
161.704	161.754	264	7	205.3	TAPER (8'-6')
161.754	161.885	692	6	461.3	
161.885	161.935	265	4	117.8	TAPER (6'-2')
161.935	161.974	206	5	114.4	TAPER (2'-8')
161.974	162.144	898	8	798.2	
162.144	162.184	212	11	259.1	
162.184	162.230	243	7.5	202.5	TAPER (11'-4')
162.230	163.304	5671	4	2520.4	
163.304	163.966	3496	-	-	J5P3574 EXCEPTION
163.966	174.731	56840	4	25262.2	
176.552	178.637	11009	4	4892.9	
181.860	185.300	18164	4	8072.9	
185.300	191.623	33386	3	11128.7	
192.382	192.955	3026	3	1008.7	
193.239	194.983	9209	3	3069.7	
			SUBTOTAL 2	64111	

COLDMILLING BIT PAVEMENT FOR REMOVAL OF SURFACING (3 IN. THICK OR LESS)

LOG MILE	LOG MILE	LENGTH FEET	AVG. WIDTH FEET	COLDMILLING SY	REMARKS
RIGHT SHOULDER					
159.238	159.347	576	6	384.0	
159.347	159.810	2445	5	1358.3	
159.810	159.848	201	7	156.3	TAPER (5' - 9')
159.848	159.935	460	9	460.0	
160.555	160.585	159	9	159.0	
160.585	160.622	196	9	196.0	
160.622	160.957	1769	4	786.2	
160.957	160.969	64	12	85.3	
160.969	160.990	111	10	123.3	
160.990	161.009	101	5	56.1	
161.009	161.020	59	6	39.3	
161.020	161.116	507	5	281.7	
161.116	161.184	360	5	200.0	
161.184	161.408	1183	9	1183.0	
161.408	161.901	2604	6	1736.0	
161.901	161.945	233	9	233.0	
161.945	162.145	1057	4	469.8	
162.145	162.181	191	11	233.4	
162.214	163.304	5756	4	2558.2	
163.304	163.966	3496	-	-	J5P3574 EXCEPTION
163.966	174.703	56692	4	25196.4	
174.703	174.731	148	9	148.0	
176.552	178.637	11009	4	4892.9	
181.860	185.300	18164	4	8072.9	
185.300	191.623	33386	3	11128.7	
192.382	192.955	3026	3	1008.7	
193.239	194.983	9209	3	3069.7	
			SUBTOTAL 3	64217	
			SUBTOTAL 2	64111	
			SUBTOTAL 1	444737	
			TOTAL	573065	

MODIFIED COLDMILLING (DEPTH TRANSITIONS)

LOG MILE	LOG MILE	LOCATION	LENGTH FT	AVG WIDTH FT	QUANTITY SY	REMARKS
174.806	174.844	ROUTE 50	200	48	1066.7	NON-REINFORCED CONCRETE PAVEMENT
174.844	174.882	ROUTE 50	200	46	1022.2	NON-REINFORCED CONCRETE PAVEMENT
174.882	175.040	ROUTE 50				A3878 BRIDGE EXCEPTION
175.040	175.078	ROUTE 50	200	45	1000.0	NON-REINFORCED CONCRETE PAVEMENT
175.078	175.116	ROUTE 50	200	46	1022.2	NON-REINFORCED CONCRETE PAVEMENT
176.332	176.370	ROUTE 50	200	34	755.6	NON-REINFORCED CONCRETE PAVEMENT
176.370	176.408	ROUTE 50	200	VAR.	840.0	NON-REINFORCED CONCRETE PAVEMENT
176.408	176.444	ROUTE 50				A3880 BRIDGE EXCEPTION
176.444	176.482	ROUTE 50	200	VAR.	848.9	NON-REINFORCED CONCRETE PAVEMENT
176.482	176.520	ROUTE 50	200	34	755.6	NON-REINFORCED CONCRETE PAVEMENT
179.980	180.018	ROUTE 50	200	34	755.6	NON-REINFORCED CONCRETE PAVEMENT
180.018	180.056	ROUTE 50	200	VAR.	802.2	NON-REINFORCED CONCRETE PAVEMENT
180.056	180.125	ROUTE 50				A4062 BRIDGE EXCEPTION
180.125	180.163	ROUTE 50	200	VAR.	825.6	NON-REINFORCED CONCRETE PAVEMENT
180.163	180.201	ROUTE 50	200	34	755.6	NON-REINFORCED CONCRETE PAVEMENT
181.507	181.545	ROUTE 50	200	34	755.6	NON-REINFORCED CONCRETE PAVEMENT
181.545	181.583	ROUTE 50	200	VAR.	828.9	NON-REINFORCED CONCRETE PAVEMENT
181.583	181.614	ROUTE 50				A4063 BRIDGE EXCEPTION
181.614	181.652	ROUTE 50	200	VAR.	795.6	NON-REINFORCED CONCRETE PAVEMENT
181.652	181.690	ROUTE 50	200	34	755.6	NON-REINFORCED CONCRETE PAVEMENT
191.980	192.018	ROUTE 50	200	34	755.6	NON-REINFORCED CONCRETE PAVEMENT
192.018	192.056	ROUTE 50	200	VAR.	836.7	NON-REINFORCED CONCRETE PAVEMENT
192.056	192.110	ROUTE 50				A3624 BRIDGE EXCEPTION
192.110	192.148	ROUTE 50	200	VAR.	916.7	NON-REINFORCED CONCRETE PAVEMENT
192.148	192.186	ROUTE 50	200	VAR.	1284.4	NON-REINFORCED CONCRETE PAVEMENT
160.403		ROUTE 50 - LT	4	86	38.2	MCDONALDS/THRIFTWAY ENTRANCE
160.403		ROUTE 50 - LT	4	66	29.3	MCDONALDS/THRIFTWAY ENTRANCE
160.403		ROUTE 50 - RT	4	59	26.2	JIM BUTLER ENTRANCE
160.403		ROUTE 50 - RT	4	52	23.1	JIM BUTLER ENTRANCE
160.543		ROUTE 50 - RT	4	93	41.3	JIM BUTLER ENTRANCE
160.543		ROUTE 50 - RT	4	70	31.1	JIM BUTLER ENTRANCE
192.386	192.423	ROUTE 50 - LT	4	196	87.1	CONC. PRIVATE ENTRANCE
192.386	192.423	ROUTE 50 - LT	4	196	87.1	CONC. PRIVATE ENTRANCE
71.035	71.073	ROUTE 28	200	24	533.3	NON-REINFORCED CONCRETE PAVEMENT
71.073	71.111	ROUTE 28	200	24	533.3	NON-REINFORCED CONCRETE PAVEMENT
				TOTAL	18809.3	
				USE	18809	

STATE OF MISSOURI
MARIA K. PETERS
NUMBER PE-2001162118
PROFESSIONAL ENGINEER
Maria Peters
08/06/2024 12:40:38 PM
MARIA K. PETERS - CIVIL
MO-PE-2001162118

DATE PREPARED
8/6/2024

ROUTE	STATE
50	MO
DISTRICT	SHEET NO.
CD	3

COUNTY
OSAGE / GASCONADE

JOB NO.
JCD0044

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)

SUMMARY OF QUANTITIES
SHEET 2 OF 13

ASPHALTIC CONCRETE MIXTURE SP125C (PG64-22) (SHOULDER WIDTH 4' OR LESS)

LOG MILE	LOG MILE	LENGTH FEET	AVG. WIDTH FEET	DEPTH IN.	SP125C 1.927 TONS/CY TONS	TACK COAT GAL	REMARKS
LEFT SHOULDER							
160.422	160.460	201	2.1444	2	5.1	2	TOP LIFT
160.422	160.460	201	2.3721	2	5.7	4	BOTTOM LIFT
160.635	160.957	1701	4.1444	2	83.9	78	
160.957	160.983	138					CITY OF LINN MAINTAINED
160.983	161.069	455					CITY OF LINN MAINTAINED
161.164	161.615	2382					CITY OF LINN MAINTAINED
162.230	163.304	5671	4.1444	2	279.6	261	
163.304	163.966	3496	-	-	-	-	J5P3574 EXCEPTION
163.966	174.703	56692	4.1444	2	2794.8	2611	
175.185	176.365	6231	4.1444	2	307.2	143	TOP LIFT
175.185	176.365	6231	4.3721	2	324.1	242	BOTTOM LIFT
176.365	176.452	460	-	-	-	-	BRIDGE EXCEPTION
176.452	176.552	528	4.1444	2	26.0	12	TOP LIFT
176.452	176.552	528	4.3721	2	27.5	21	BOTTOM LIFT
176.552	178.637	11009	4.1444	2	542.7	507.0	
178.637	180.023	7319	4.1444	2	360.8	168.5	TOP LIFT
178.637	180.023	7319	4.3721	2	380.6	284.4	BOTTOM LIFT
180.056	180.125	365					BRIDGE EXCEPTION
180.125	181.545	7498	4.1444	2	369.6	172.6	TOP LIFT
180.125	181.545	7498	4.3721	2	389.9	291.4	BOTTOM LIFT
181.545	181.619	391					BRIDGE EXCEPTION
181.619	181.860	1273	4.1444	2	62.8	29	TOP LIFT
181.619	181.860	1273	4.3721	2	66.2	49	BOTTOM LIFT
181.860	185.300	18164	4.1444	2	895.4	836	
185.300	191.623	33386	3.1444	2	1248.7	1166	
191.623	192.018	2086	3.1444	2	78.0	36	TOP LIFT
191.623	192.018	2086	3.3721	2	83.7	63	BOTTOM LIFT
192.018	192.119	534					BRIDGE EXCEPTION
192.119	192.382	1389	3.1444	2	52.0	24	TOP LIFT
192.119	192.382	1389	3.3721	2	55.7	42	BOTTOM LIFT
192.382	192.899	2730	3.1444	2	102.1	124	
193.239	194.983	9209	3.1444	2	344.4	322	
RIGHT SHOULDER							
160.255	160.543	1521	4.1444	2	75.0	35	TOP LIFT
160.255	160.543	1521	4.3721	2	79.1	59	BOTTOM LIFT
160.622	160.957	1769	4.1444	2	87.2	81	
161.945	162.128	967	4.1444	2	47.7	45	
162.214	163.304	5756	4.144	2	283.7	265	
163.304	163.966	3496					J5P3574 EXCEPTION
163.966	174.703	56692	4.144	2	2794.5	2610	
175.185	175.215	159	4.1444	2	7.8	4	TOP LIFT
175.185	175.215	159	4.3721	2	8.3	6	BOTTOM LIFT
175.282	176.403	5919	4.1444	2	291.8	136.3	TOP LIFT
175.282	176.403	5919	4.3721	2	307.8	230.0	BOTTOM LIFT
176.403	176.444	217					BRIDGE EXCEPTION
176.455	176.552	513	4.1444	2	25.3	11.81154	TOP LIFT
176.455	176.552	513	4.3721	2	26.7	19.936776	BOTTOM LIFT
176.552	178.637	11009	4.1444	2	542.7	659.0	
178.637	180.043	7424	4.1444	2	366.0	170.9	TOP LIFT
178.637	180.043	7424	4.3721	2	386.1	288.5	BOTTOM LIFT
180.043	180.159	613					BRIDGE EXCEPTION
180.159	181.579	7498	4.1444	2	369.6	172.6	TOP LIFT
180.159	181.579	7498	4.3721	2	389.9	291.4	BOTTOM LIFT
181.579	181.642	333					BRIDGE EXCEPTION
181.642	181.860	1152	4.1444	2	56.8	26.5	TOP LIFT
181.642	181.860	1152	4.3721	2	59.9	44.8	BOTTOM LIFT
181.860	185.300	18164	4.1444	2	895.4	836.4	
185.300	191.623	33386	3.1444	2	1248.7	1166.4	
191.623	192.037	2186	3.1444	2	81.8	38.2	TOP LIFT
191.623	192.037	2186	3.3721	2	87.7	65.5	BOTTOM LIFT
192.037	192.182	766					BRIDGE EXCEPTION
192.182	192.382	1057	3.1444	2	39.5	18.5	TOP LIFT
192.182	192.382	1057	3.3721	2	42.4	31.7	BOTTOM LIFT
192.382	192.899	2730	3.1444	2	102.1	124	
193.200	194.983	9415	3.1444	2	352.1	329	
				SUBTOTAL 1	17942.1	15256	

SUMMARY OF QUANTITIES
SHEET 3 OF 13

STATE OF MISSOURI
MARIA K. PETERS
NUMBER PE-2000162118
PROFESSIONAL ENGINEER
Maria Peters
08/06/2024 12:41:06 PM
MARIA K. PETERS - CIVIL
MO-PE-2000162118

DATE PREPARED
8/6/2024

ROUTE	STATE
50	MO
DISTRICT	SHEET NO.
CD	3

COUNTY
OSAGE / GASCONADE

JOB NO.
JCD0044

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)

ASPHALTIC CONCRETE MIXTURE SP125C (PG64-22)

LOG MILE	LOG MILE	LENGTH FEET	AVG. WIDTH FEET	DEPTH IN.	SP125C 1.927 TONS/CY TONS	TACK COAT GAL	REMARKS
159.238	159.400	856	26	2	264.7	247.3	
159.400	159.514	602	32.5	2	232.7	217.4	TAPER (26'-39')
159.514	159.859	1822	39	2	845.2	789.5	CLIMBING LANE
159.859	160.058	1051	39	2	487.6	227.7	CLIMBING LANE - TOP LIFT
159.897	160.058	851	39	2	394.8	295.0	CLIMBING LANE - BOTTOM LIFT
160.058	160.110	275	32.5	2	106.3	49.7	TAPER (39' - 26') - TOP LIFT
160.058	160.110	275	32.5	2	106.3	79.4	TAPER (39' - 26') - BOTTOM LIFT
160.110	160.195	449	26	2	138.9	64.9	TOP LIFT
160.110	160.195	449	26	2	138.9	103.8	BOTTOM LIFT
160.195	160.280	449	32.5	2	173.6	81.1	TAPER (26' - 39') - TOP LIFT
160.195	160.280	449	32.5	2	173.6	129.7	TAPER (26' - 39') - BOTTOM LIFT
160.280	160.422	750	39	2	347.9	162.5	CENTER TURN LANE - TOP LIFT
160.280	160.422	750	39	2	347.9	260.0	CENTER TURN LANE - BOTTOM LIFT
160.422	160.455	175	52	2	108.2	50.6	CENTER AND RIGHT TURN LANE - TOP LIFT
160.422	160.455	175	52	2	108.2	80.9	CENTER AND RIGHT TURN LANE - BOTTOM LIFT
160.455	160.482	143	45.5	2	77.4	36.1	TAPER (52' - 39') - TOP LIFT
160.455	160.482	143	45.5	2	77.4	57.8	TAPER (52' - 39') - BOTTOM LIFT
160.482	160.624	750	32.5	2	289.9	135.4	TAPER (39' - 26') - TOP LIFT
160.482	160.586	550	32.5	2	212.6	158.9	TAPER (39' - 26') - BOTTOM LIFT
160.624	160.635	59	26	2	18.2	17.0	
160.635	160.957	1701	26	2	526.1	491.4	
160.957	162.230	6722	26	2	2078.9	1941.9	
162.230	163.304	5671	26	2	1753.9	1638.3	
163.304	163.966	3496	-	-	-	-	J5P3574 EXCEPTION
163.966	174.655	56438	26	2	17454.7	16304.3	
174.655	174.882	1199	26	2	370.8	173.2	TOP LIFT
174.693	174.844	798	26	2	246.8	184.4	BOTTOM LIFT
174.882	175.040	835	-	-	-	-	A3878 BRIDGE EXCEPTION
175.040	176.408	7224	26	2	2234.2	1043.5	TOP LIFT
175.078	176.37	6822	26	2	2109.9	1576.6	BOTTOM LIFT
176.408	176.444	191	-	-	-	-	A3880 BRIDGE EXCEPTION
176.444	176.628	972	26	2	300.6	140.4	TOP LIFT
176.482	176.59	571	26	2	176.6	132.0	BOTTOM LIFT
176.628	178.561	10207	26	2	3156.7	2948.7	
178.561	180.056	7894	26	2	2441.4	1140.2	TOP LIFT
178.599	180.018	7493	26	2	2317.4	1731.7	BOTTOM LIFT
180.056	180.125	365	-	-	-	-	A4062 BRIDGE EXCEPTION
180.125	181.583	7699	26	2	2381.1	1112.1	TOP LIFT
180.163	181.545	7297	26	2	2256.8	1686.4	BOTTOM LIFT
181.583	181.614	164	-	-	-	-	A4063 BRIDGE EXCEPTION
181.614	181.936	1701	26	2	526.1	245.7	TOP LIFT
181.652	181.898	1299	26	2	401.7	300.2	BOTTOM LIFT
181.936	191.547	50747	26	2	15694.6	14660.2	
191.547	192.056	2688	26	2	831.3	388.3	TOP LIFT
191.585	192.018	2287	26	2	707.3	528.6	BOTTOM LIFT
192.056	192.110	286	-	-	-	-	A3624 BRIDGE EXCEPTION
192.110	192.177	354	34	2	143.2	66.9	TAPER (26' - 42') - TOP LIFT
192.148	192.177	154	38.5	2	70.5	52.7	TAPER (35' - 42') - BOTTOM LIFT
192.177	192.226	259	42	2	129.4	60.4	LEFT TURN LANE - TOP LIFT
192.177	192.226	259	42	2	129.4	96.7	LEFT TURN LANE - BOTTOM LIFT
192.226	192.295	365	34	2	147.6	68.9	TAPER (42' - 26') - TOP LIFT
192.226	192.295	365	34	2	147.6	110.3	TAPER (42' - 26') - BOTTOM LIFT
192.295	192.458	861	26	2	266.3	124.4	TOP LIFT
192.295	192.42	660	26	2	204.1	152.5	BOTTOM LIFT
192.458	192.899	2329	26	2	720.3	672.8	
192.899	193.239	1796	24	2	512.7	478.9	
193.239	194.983	9209	26	2	2848.1	2660.4	
161.116	161.999	4663	-	-	136.9	-	ADDITIONAL MATERIAL DUE TO
							CROWN CORRECTION IN LINN
							ESTIMATE FACTORS:
				SUBTOTAL 2	68073.3	56158	TACK COAT (NEW ASPHALT) = 0.05 GAL/SY
							TACK COAT (EXIST PVMNT) = 0.08 GAL/SY
							TACK COAT (COLDMILLED) = 0.10 GAL/SY

SUMMARY OF QUANTITIES
SHEET 4 OF 13

STATE OF MISSOURI
MARIA K. PETERS
NUMBER PE-2000162118
PROFESSIONAL ENGINEER
Maria Peters
08/06/2024 12:41:41 PM
MARIA K. PETERS - CIVIL
MO-PE-2000162118

DATE PREPARED
8/6/2024

ROUTE	STATE
50	MO
DISTRICT	SHEET NO.
CD	3

COUNTY
OSAGE / GASCONADE

JOB NO.
JCD0044

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)

ASPHALTIC CONCRETE MIXTURE SP125C (PG64-22)

LOG MILE	LOG MILE	LENGTH FEET	AVG. WIDTH FEET	DEPTH IN.	SP125C 1.927 TONS/CY TONS	TACK COAT GAL	REMARKS
							INTERSECTIONS:
160.190				2	50.1	23.4	ROUTE W - 468 SY - TOP LIFT
160.190				2	41.3	30.9	ROUTE W - 386 SY - BOTTOM LIFT
160.352				2	63.3	29.6	ROUTE 100 - 591 SY - TOP LIFT
160.352				2	50.7	37.9	ROUTE 100 - 474 SY - BOTTOM LIFT
160.824				2	45.9	42.9	ROUTE U - 429 SY
162.201				2	66.8	62.4	ROUTE 89 SOUTH - 624 SY
165.540				2	56.5	52.8	ROUTE 89 NORTH - 528 SY
167.530				2	114.2	106.7	ROUTE 89 SPUR - 1067 SY
175.270				2	117.4	54.9	ROUTE A - 1097 SY - TOP LIFT
175.270				2	110.9	82.9	ROUTE A - 1036 SY - BOTTOM LIFT
176.484				2	26.9	12.6	ROUTE BB - 251 SY - TOP LIFT
176.484				2	19.5	14.6	ROUTE BB - 182 SY - BOTTOM LIFT
179.863				2	77.4	36.2	ROUTE K - 723 SY - TOP LIFT
179.863				2	70.3	52.6	ROUTE K - 657 SY - BOTTOM LIFT
179.863				2	24.4	11.4	ROUTE P - 228 SY - TOP LIFT
179.863				2	17.7	13.2	ROUTE P - 165 SY - BOTTOM LIFT
185.154				2	61.1	57.1	ROUTE 19 - 571 SY
185.281				2	62.9	58.8	ROUTE 19 - 588 SY
160.403		4	86	2	4.1	34.4	MCDONALDS/THRIFTWAY ENTRANCE - BOTTOM LIFT
160.403		8	76	2	7.2	30.4	MCDONALDS/THRIFTWAY ENTRANCE - TOP LIFT
160.403		4	59	2	2.8	23.6	JIM BUTLER ENTRANCE - BOTTOM LIFT
160.403		8	56	2	5.3	22.4	JIM BUTLER ENTRANCE - TOP LIFT
160.543		4	93	2	4.4	37.2	JIM BUTLER ENTRANCE - BOTTOM LIFT
160.543		8	82	2	7.8	32.8	JIM BUTLER ENTRANCE - TOP LIFT
175.153		4	46	2	2.2	18.4	RIVER RD (CR 221) - BOTTOM LIFT
175.153		8	42	2	4.0	16.8	RIVER RD (CR 221) - TOP LIFT
175.273		4	84	2	4.0	33.6	SCHWEGLER RD (NO OUTLET) - BOTTOM LIFT
175.273		8	80	2	7.6	32.0	SCHWEGLER RD (NO OUTLET) - TOP LIFT
178.691		4	122	2	5.8	48.8	CAVE HILL RD - BOTTOM LIFT
178.681		8	108	2	10.3	43.2	CAVE HILL RD - TOP LIFT
181.042		4	105	2	5.0	42.0	RUSKAUP RD - BOTTOM LIFT
181.042		8	95	2	9.0	38.0	RUSKAUP RD - TOP LIFT
181.731		4	83	2	3.9	33.2	BIT. PRIVATE ENTRANCE - BOTTOM LIFT
181.731		8	77	2	7.3	30.8	BIT. PRIVATE ENTRANCE - TOP LIFT
191.777		4	87	2	4.1	34.8	NOWACK RD - BOTTOM LIFT
191.777		8	79	2	7.5	31.6	NOWACK RD - TOP LIFT
192.386	192.423	4	196	2	9.3	78.4	CONC. PRIVATE ENTRANCE - BOTTOM LIFT
192.386	192.423	8	196	2	18.7	78.4	CONC. PRIVATE ENTRANCE - TOP LIFT
71.035	71.260			2	470.2	219.6	ROUTE 28/ROUTE 50 - SOUTH - 4392 SY - TOP LIFT
71.073	71.260			2	413.1	308.7	ROUTE 28/ROUTE 50 - SOUTH - 3859 SY - BOTTOM LIFT
				SUBTOTAL 3	2090.9	2050	ESTIMATE FACTORS:
				SUBTOTAL 2	68073.3	56158	TACK COAT (NEW ASPHALT) = 0.05 GAL/SY
				SUBTOTAL 1	17942.1	15256	TACK COAT (EXIST PVMNT) = 0.08 GAL/SY
				USE	88106.3	73464	TACK COAT (COLDMILLED) = 0.10 GAL/SY

BITUMINOUS RUMBLE STRIP

LOG MILE	LOG MILE	LENGTH FEET	SHLDR. RUMBLE STRIP STA	CENTERLINE RUMBLE STRIP STA	REMARKS
159.238	159.935	3680	73.6	36.8	
159.935	160.195	1373	27.5	-	
163.966	174.918	57827	1156.5	578.27	
174.918	175.040	644	-	-	A3878 BRIDGE EXCEPTION
175.040	176.408	7223	144.5	72.23	
176.408	176.444	190	-	-	A3880 BRIDGE EXCEPTION
176.444	180.056	19071	381.4	190.71	
180.056	180.125	364	-	-	A4062 BRIDGE EXCEPTION
180.125	181.583	7698	154.0	76.98	
181.583	181.614	164	-	-	A4063 BRIDGE EXCEPTION
181.614	192.056	55134	1102.7	551.34	
192.056	193.615	8232	-	-	A3624 BRIDGE AND ROSEBUD EXCEPTION
193.615	194.983	7223	144.5	72.23	
		-47800	-478	-	EXCEPTIONS FOR ENTRANCES,
					STATE ROUTES AND COUNTY ROADS
		TOTAL	2706.7	1578.6	
		USE	2706.7	1578.6	

LINEAR GRADING CLASS II

LOG MILE	LOG MILE	LOCATION	LENGTH STA	REMARKS
71.035	71.250	ROUTE 28	11.352	LT SHOULDER
71.035	71.260	ROUTE 28	11.88	RT SHOULDER
		TOTAL	23.2	
		USE	23.2	

SHAPING SLOPES CLASS II

LOG MILE	LOG MILE	LOCATION	LENGTH STA	REMARKS
159.859	160.624	ROUTE 50	80.8	LT & RT SHOULDER
174.655	174.84	ROUTE 50	19.5	LT & RT SHOULDER
71.035	71.26	ROUTE 28	23.8	LT & RT SHOULDER
		TOTAL	124.1	
		USE	124	

SUMMARY OF QUANTITIES
SHEET 5 OF 13

STATE OF MISSOURI
MARIA K. PETERS
NUMBER PE-2001162118
PROFESSIONAL ENGINEER
Maria Peters
08/06/2024 12:42:08 PM
MARIA K. PETERS - CIVIL
MO-PE-2001162118

DATE PREPARED
8/6/2024

ROUTE	STATE
50	MO
DISTRICT	SHEET NO.
CD	3

COUNTY
OSAGE / GASCONADE

JOB NO.
JCD0044

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)

BITUMINOUS PAVEMENT MIXTURE PG64-22 (BP-1) (SHOULDER WIDTHS MORE THAN 4 FT.)

LOG MILE	LOG MILE	LENGTH FEET	AVG. WIDTH FEET	DEPTH IN.	BP-1 1.948 TONS/CY TONS	TACK COAT GAL	REMARKS
LEFT SHOULDER							
159.238	159.400	856	6	2	61.8	57	
159.400	159.935	2825	9	2	305.7	283	
159.935	160.422	2572	9	4	556.7	334	
160.460	160.479	101	5.5	4	13.4	8	TAPER (2' - 9')
160.479	160.555	402	9	4	87.0	52	
160.555	160.635	423	9	2	45.8	42	
161.069	161.124	291					CITY OF LINN MAINTAINED
161.124	161.164	212					CITY OF LINN MAINTAINED
161.615	161.665	264					CITY OF LINN MAINTAINED
161.665	161.704	206					CITY OF LINN MAINTAINED
161.704	161.754	264					CITY OF LINN MAINTAINED
161.754	161.820	349					CITY OF LINN MAINTAINED
161.820	161.885	344	6	2	24.8	23	
161.885	161.935	265	4	2	12.7	12	TAPER (6'-2')
161.935	161.974	206	5	2	12.4	11	TAPER (2'-8')
161.974	162.144	898	8	2	86.4	80	
162.144	162.184	212	11	2	28.0	26	
162.184	162.230	243	7.5	2	21.9	20	TAPER (11'-4')
174.703	174.731	148	7.5	4	26.7	16	TAPER (4'-11')
174.731	174.882	798	11	4	211.1	127	
174.882	175.040	835	-	-	-	-	BRIDGE EXCEPTION
175.040	175.100	317	11	4	83.9	50	
175.100	175.185	449	7.5	4	81.0	49	TAPER (11'-4')
176.365	176.408	228	6.5	4	35.6	21	TAPER (4'-9')
176.408	176.444	191	-	-	-	-	BRIDGE EXCEPTION
176.444	176.452	43	9	4	9.3	6	
180.023	180.056	175	6.5	4	27.4	16.4	TAPER (4'-9')
180.056	180.125	365	-	-	-	-	BRIDGE EXCEPTION
181.545	181.577	169	7.5	4	30.5	18.3	TAPER (4'-11')
181.577	181.583	32	11	4	8.5	5.1	
181.583	181.614	164	-	-	-	-	BRIDGE EXCEPTION
181.614	181.619	27	10	4	6.5	3.9	
192.018	192.045	143	6	4	20.6	12	TAPER (3'-9')
192.045	192.056	59	9	4	12.8	8	
192.056	192.110	286	-	-	-	-	BRIDGE EXCEPTION
192.110	192.119	48	9	4	10.4	6	
71.035	71.250	1136	10	5.75	392.7	63	ROUTE 28
				SUBTOTAL 1	2213.6	1350.0	

BITUMINOUS PAVEMENT MIXTURE PG64-22 (BP-1) (SHOULDER WIDTHS MORE THAN 4 FT.)

LOG MILE	LOG MILE	LENGTH FEET	AVG. WIDTH FEET	DEPTH IN.	BP-1 1.948 TONS/CY TONS	TACK COAT GAL	REMARKS
RIGHT SHOULDER							
159.238	159.347	576	6	2	41.6	38	
159.347	159.810	2445	5	2	147.0	136	
159.810	159.848	201	7	2	16.9	16	TAPER (5' - 9')
159.848	159.935	460	9	2	49.8	46	
159.935	160.189	1342	9	4	290.5	174	
160.189	160.255	349	6.5	4	54.6	33	TAPER (9' - 4')
160.555	160.622	354	9	2	38.3	35	
160.957	160.969	64					CITY OF LINN MAINTAINED
160.969	160.990	111					CITY OF LINN MAINTAINED
160.990	161.009	101					CITY OF LINN MAINTAINED
161.009	161.020	59					CITY OF LINN MAINTAINED
161.020	161.116	507					CITY OF LINN MAINTAINED
161.116	161.184	360					CITY OF LINN MAINTAINED
161.184	161.945	4019					CITY OF LINN MAINTAINED
162.128	162.145	90	4	2	4.3	4	
162.145	162.181	191	11	2	25.3	23	
174.703	174.731	148	7.5	4	26.7	16	TAPER (4'-11')
174.731	174.882	798	11	4	211.1	127	
174.882	175.040	835	-	-	-	-	BRIDGE EXCEPTION
175.040	175.100	317	11	4	83.9	50	
175.100	175.185	449	7.5	4	81.0	49	TAPER (11'-4')
175.215	175.243	148	11	4	39.2	23.5	
176.403	176.408	27	9	4	5.8	3.5	
176.408	176.444	191	-	-	-	-	BRIDGE EXCEPTION
176.444	176.455	59	9	4	12.8	7.7	
180.043	180.056	69	9	4	14.9	9.0	
180.056	180.125	365	-	-	-	-	BRIDGE EXCEPTION
180.125	180.159	180	6.5	4	28.1	16.9	
181.579	181.583	22	9	4	4.8	2.86	
181.583	181.614	164	-	-	-	-	BRIDGE EXCEPTION
181.614	181.642	148	6.5	4	23.1	13.9	TAPER (9'-4')
192.037	192.056	101	9	4	21.9	13.13	
192.056	192.110	286	-	-	-	-	BRIDGE EXCEPTION
192.110	192.139	154	7	4	25.9	15.6	TAPER (9'-5')
71.035	71.162	671	10	5.75	232.0	37	ROUTE 28
71.162	71.181	101	8	5.75	27.9	4	ROUTE 28 - TAPER 10' - 6'
71.181	71.260	418	6	5.75	86.7	14	ROUTE 28
				SUBTOTAL 2	1594.1	908	
				SUBTOTAL 1	2213.6	1350	
				TOTAL	3807.7	2258	

MGS GUARDRAIL

APPROX. LOG MILE	APPROX. LOG MILE	LENGTH FEET	MGS GUARDRAIL FT	MGS BRIDGE APPR TRANS REG/NO CURB EA	(MASH) TYPE A CRASHWORTHY END TERMINAL EA	SHAPING SLOPES CLASS III 100 FT	REMARKS
175.040	175.073	175	87.5	1	1	2	GASCONADE RIVER (BRIDGE A3878) - NE CORNER
175.040	175.073	175	87.5	1	1	2	GASCONADE RIVER (BRIDGE A3878) - SE CORNER
174.885	174.918	175	87.5	1	1	2	GASCONADE RIVER (BRIDGE A3878) - SW CORNER
174.885	174.918	175	87.5	1	1	2	GASCONADE RIVER (BRIDGE A3878) - NW CORNER
176.444	176.477	175	87.5	1	1	2	PIN OAK CREEK (BRIDGE A3880) - NE CORNER
176.444	176.477	175	87.5	1	1	2	PIN OAK CREEK (BRIDGE A3880) - SE CORNER
176.375	176.408	175	87.5	1	1	2	PIN OAK CREEK (BRIDGE A3880) - SW CORNER
176.375	176.408	175	87.5	1	1	2	PIN OAK CREEK (BRIDGE A3880) - NW CORNER
178.050	178.409	1900	1800	-	2	19.5	ROUTE 50 EB - RIGHT
180.125	180.158	175	87.5	1	1	2	SECOND CREEK (BRIDGE A4062) - NE CORNER
180.125	180.158	175	87.5	1	1	2	SECOND CREEK (BRIDGE A4062) - SE CORNER
180.023	180.056	175	87.5	1	1	2	SECOND CREEK (BRIDGE A4062) - SW CORNER
180.023	180.056	175	87.5	1	1	2	SECOND CREEK (BRIDGE A4062) - NW CORNER
181.614	181.647	175	87.5	1	1	2	SCHULTE CREEK (BRIDGE A4063) - NE CORNER
181.614	181.647	175	87.5	1	1	2	SCHULTE CREEK (BRIDGE A4063) - SE CORNER
181.550	181.583	175	87.5	1	1	2	SCHULTE CREEK (BRIDGE A4063) - SW CORNER
181.550	181.583	175	87.5	1	1	2	SCHULTE CREEK (BRIDGE A4063) - NW CORNER
192.110	192.143	175	87.5	1	1	2	MISSOURI EASTERN RAILROAD (BRIDGE A3624) - NE CORNER
192.110	192.143	175	87.5	1	1	2	MISSOURI EASTERN RAILROAD (BRIDGE A3624) - SE CORNER
192.023	192.056	175	87.5	1	1	2	MISSOURI EASTERN RAILROAD (BRIDGE A3624) - SW CORNER
192.023	192.056	175	87.5	1	1	2	MISSOURI EASTERN RAILROAD (BRIDGE A3624) - NW CORNER
		TOTAL	3550	20	22	60	
		USE	3550	20	22	60	

SUMMARY OF QUANTITIES
SHEET 6 OF 13

STATE OF MISSOURI
MARIA K. PETERS
NUMBER PE-2000162118
PROFESSIONAL ENGINEER
Maria Peters
08/06/2024 12:42:36 PM
MARIA K. PETERS - CIVIL
MO-PE-2000162118

DATE PREPARED
8/6/2024

ROUTE	STATE
50	MO
DISTRICT	SHEET NO.
CD	3

COUNTY
OSAGE / GASCONADE

JOB NO.
JCD0044

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)

FULL DEPTH PAVEMENT REPAIR

LOG MILE	LOG MILE	LOCATION	LANE	LENGTH FT	WIDTH FT	FURN. & PLACE CONC. MTRL FOR FULL DEPTH REPAIR SY	SAWCUT (PERIMETER & INTERNAL) LF	DOWEL BARS EACH	DOWEL BARS W/BASKETS EACH	TIE BARS** EACH	SUBGRADE COMPACTION* SY	REMARKS INTERNAL SAWCUTS ONLY PAID FOR ON 15' & GREATER LENGTHS
160.218		EB 50	BOTH	6.0	24	16	54	40	-	-	1.6	
160.334		EB 50	BOTH	6.0	24	16	54	40	-	-	1.6	
160.47		EB 50	BOTH	6.0	24	16	54	40	-	-	1.6	
160.75		EB 50	BOTH	6.0	24	16	54	40	-	-	1.6	
160.840		EB 50	BOTH	6.0	24	16	54	40	-	-	1.6	
161.684		EB 50	DL	6.0	12	8	30	20	-	-	0.8	
161.739		EB 50	DL	6.0	12	8	30	20	-	-	0.8	
162.243		EB 50	BOTH	6.0	24	16	54	40	-	-	1.6	
162.546		EB 50	BOTH	6.0	24	16	54	40	-	-	1.6	
163.785		EB 50	DL	6.0	12	8	30	20	-	-	0.8	
167.371		EB 50	BOTH	6.0	24	16	54	40	-	-	1.6	
176.463		EB 50	DL	12.0	12	16	36	20	-	-	1.6	
178.874		EB 50	DL	6.0	12	8	30	20	-	-	0.8	
180.142		EB 50	DL	6.0	12	8	30	20	-	-	0.8	
180.148		EB 50	DL	6.0	12	8	30	20	-	-	0.8	
180.153		EB 50	DL	6.0	12	8	30	20	-	-	0.8	
180.245		EB 50	DL	6.0	12.0	8	30	20	-	-	0.8	
180.291		EB 50	DL	6.0	12.0	8	30	20	-	-	0.8	
180.320		EB 50	DL	6.0	12.0	8	30	20	-	-	0.8	
180.545		EB 50	DL	6.0	12.0	8	30	20.0	-	-	0.8	
180.556		EB 50	DL	6.0	12.0	8	30	20	-	-	0.8	
180.754		EB 50	DL	6.0	12.0	8	30	20	-	-	0.8	
180.935		EB 50	DL	6.0	12.0	8	30	20	-	-	0.8	
180.964		EB 50	DL	6.0	12.0	8	30	20	-	-	0.8	
181.070		EB 50	DL	6.0	12.0	8	30	20	-	-	0.8	
181.121		EB 50	DL	6.0	12.0	8	30	20	-	-	0.8	
181.157		EB 50	BOTH	6.0	24.0	16	54	40	-	-	1.6	
181.667		EB 50	DL	6.0	12.0	8	30	20	-	-	0.8	
181.765		EB 50	DL	6.0	12.0	8	30	20	-	-	0.8	
181.799		EB 50	DL	6.0	12.0	8	30	20	-	-	0.8	
181.806		EB 50	DL	6.0	12.0	8	30	20	-	-	0.8	
181.809		EB 50	DL	6.0	12.0	8	30	20	-	-	0.8	
181.841		EB 50	DL	6.0	12.0	8	30	20	-	-	0.8	
185.466		EB 50	BOTH	6.0	24.0	16	54	40	-	-	1.6	
186.287		EB 50	BOTH	6.0	24.0	16	54	40	-	-	1.6	
187.003		EB 50	BOTH	6.0	24.0	16	54	40	-	-	1.6	
187.506		EB 50	BOTH	6.0	24.0	16	54	40	-	-	1.6	
187.741		EB 50	BOTH	6.0	24.0	16	54	40	-	-	1.6	
188.193		EB 50	BOTH	6.0	24.0	16	54	40	-	-	1.6	
188.394		EB 50	BOTH	6.0	24.0	16	54	40	-	-	1.6	
188.847		EB 50	BOTH	6.0	24.0	16	54	40	-	-	1.6	
189.45		EB 50	BOTH	6.0	24.0	16	54	40	-	-	1.6	
190.362		EB 50	BOTH	6.0	24.0	16	54	40	-	-	1.6	
190.599		EB 50	BOTH	6	24	16	54	40	-	-	1.6	
191.638		EB 50	DL	20.0	12	26.67	44	20	-	-	2.7	
191.695		EB 50	DL	6.0	12	8	30	20	-	-	0.8	
191.849		EB 50	BOTH	6.0	24	16	54	40	-	-	1.6	
191.856		EB 50	DL	20.0	12.0	26.67	44	20	-	-	2.7	
192.169		EB 50	DL	6.0	12.0	8	30	20	-	-	0.8	
192.253		EB 50	DL	6.0	12.0	8	30	20	-	-	0.8	
193.302		EB 50	BOTH	6.0	24.0	16	54	40	-	-	1.6	
193.401		EB 50	BOTH	6.0	24.0	16	54	40	-	-	1.6	
193.568		EB 50	BOTH	6.0	24.0	16	54	40	-	-	1.6	
193.967		EB 50	BOTH	6.0	24.0	16	54	40	-	-	1.6	
194.019		EB 50	BOTH	6.0	24.0	16	54	40	-	-	1.6	
194.135		EB 50	BOTH	6.0	24.0	16	54	40	-	-	1.6	
194.145		EB 50	BOTH	6.0	24.0	16	54	40	-	-	1.6	
194.228		EB 50	BOTH	6.0	24.0	16	54	40	-	-	1.6	
194.351		EB 50	BOTH	6.0	24.0	16	54	40	-	-	1.6	
194.518		EB 50	BOTH	6.0	24.0	16	54	40	-	-	1.6	
194.794		EB 50	BOTH	6.0	24	16	54	40	-	-	1.6	
					SUM	789.3	2632	1860	0	0	79	* SUBGRADE COMPACTION ASSUMED @ 10% OF REPLACEMENT AREA
					ADDITIONAL	78.93	263.2	186	0	0	7.9	** TIE BARS SPACED AT 30" CENTERS
					SUBTOTAL 1	868.3	2895.2	2046	0	0	86.9	

SUMMARY OF QUANTITIES
SHEET 7 OF 13

STATE OF MISSOURI
MARIA K. PETERS
NUMBER PE-2000162118
PROFESSIONAL ENGINEER
Maria Peters
08/06/2024 12:43:40 PM
MARIA K. PETERS - CIVIL
MO-PE-2000162118

DATE PREPARED
8/6/2024

ROUTE	STATE
50	MO
DISTRICT	SHEET NO.
CD	3

COUNTY
OSAGE / GASCONADE

JOB NO.
JCD0044

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)

FULL DEPTH PAVEMENT REPAIR

LOG MILE	LOG MILE	LOCATION	LANE	LENGTH FT	WIDTH FT	FURN. & PLACE CONC. MTRL FOR FULL DEPTH REPAIR SY	SAWCUT (PERIMETER & INTERNAL) LF	DOWEL BARS EACH	DOWEL BARS W/ BASKETS EACH	TIE BARS ** EACH	SUBGRADE COMPACTION * SY	REMARKS INTERNAL SAWCUTS ONLY PAID FOR ON 15' & GREATER LENGTHS
69.712		WB 50	DL	6	12	8.0	30	20	-	-	0.8	
69.747		WB 50	DL	6	12	8.0	30	20	-	-	0.8	
69.834		WB 50	DL	50	12	66.7	110	20	20	20	6.7	
69.951		WB 50	DL	6	12	8.0	30	20	-	-	0.8	
69.977		WB 50	DL	6	12	8.0	30	20	-	-	0.8	
70.01		WB 50	DL	6	12	8.0	30	20	-	-	0.8	
70.156		WB 50	DL	6	12	8.0	30	20	-	-	0.8	
70.163		WB 50	DL	6	12	8.0	30	20	-	-	0.8	
70.168		WB 50	DL	6	12	8.0	30	20	-	-	0.8	
70.185		WB 50	DL	6	12	8.0	30	20	-	-	0.8	
83.029		WB 50	DL	6	12	8.0	30	20	-	-	0.8	
83.035		WB 50	BOTH	6	24	16.0	54	40	-	-	1.6	
83.109		WB 50	BOTH	6	24	16.0	54	40	-	-	1.6	
83.194		WB 50	BOTH	6	24	16.0	54	40	-	-	1.6	
83.34		WB 50	DL	6	12	8.0	30	20	-	-	0.8	
83.430		WB 50	DL	16	12	21.3	40.0	20	-	-	2.1	
94.606		WB 50	FALSE	6	12	8.0	30.0	20	-	-	0.8	
95.254		WB 50	FALSE	6	12	8.0	30.0	20	-	-	0.8	
95.37		WB 50	FALSE	6	12	8.0	30.0	20	-	-	0.8	
97.148		WB 50	FALSE	6	12	8.0	30.0	20	-	-	0.8	
98.192		WB 50	FALSE	6	12	8.0	30.0	20	-	-	0.8	
100.203		WB 50	FALSE	6	12	8.0	30.0	20	-	-	0.8	
101.01		WB 50	DL	200	12	266.7	380.0	20	120	80	26.7	
101.461		WB 50	DL	6	12	8.0	30.0	20	-	-	0.8	
101.863		WB 50	DL	6	12	8.0	30.0	20	-	-	0.8	
102.005		WB 50	DL	6	12	8.0	30.0	20	-	-	0.8	
102.020		WB 50	DL	6	12	8.0	30.0	20	-	-	0.8	
102.030		WB 50	BOTH	6	24	16.0	54.0	40	-	-	1.6	
					SUM	586.7	1376.0	640	140	100	58.7	* SUBGRADE COMPACTION ASSUMED @ 10% OF REPLACEMENT AREA
					ADDITIONAL	58.7	137.6	64	14	10	5.87	** TIE BARS SPACED AT 30" CENTERS
					SUBTOTAL 2	645.3	1513.6	704	154	110	64.6	
					SUBTOTAL 1	868.3	2895.2	2046	0	0	86.9	
					TOTAL	1513.6	4409	2750	154	110	152	

REMOVE, FURNISH, & PLACE MATERIAL FOR CLASS A PARTIAL DEPTH PVM'T REPAIR (USING FLEXIBLE HOT POLYMER-MODIFIED REPAIR MATERIAL)

LOG MILE	LOG MILE	LOCATION	LANE	LENGTH FT	WIDTH FT	REM., FURN., & PLACE MTRL. FOR CL. A PARTIAL DEPTH PVM'T REPAIR (USING FLEXIBLE HOT POLYMER-MOD. MTRL.) LBS	REMARKS DIMENSIONS GIVEN ARE APPROXIMATE; ADJUST TO MATCH FIELD CONDITIONS
160.5		EB 50	DL	2	2	149.3	
160.531		EB 50	DL	2	2	149.3	
160.531		EB 50	DL	2	2	149.3	
160.531		EB 50	DL	2	2	149.3	
160.536		EB 50	DL	2	2	149.3	
101.44		WB 50	DL	3	2	224.0	
101.441		WB 50	DL	2	3	224.0	
101.446		WB 50	DL	2	2	149.3	
101.446		WB 50	DL	2	2	149.3	
101.462		WB 50	DL	2	2	149.3	
101.464		WB 50	DL	2	2	149.3	
101.477		WB 50	DL	2	2	149.3	
101.511		WB 50	DL	3	3	336.0	
101.699		WB 50	DL	2	2	149.3	
101.81		WB 50	DL	2	2	149.3	
101.932		WB 50	DL	2	2	149.3	
101.939		WB 50	DL	2	2	149.3	
101.966		WB 50	DL	2	3	224.0	
101.966		WB 50	DL	2	2	149.3	
101.972		WB 50	DL	2	2	149.3	
101.983		WB 50	DL	2	3	224.0	
101.983		WB 50	DL	2	2	149.3	
102.002		WB 50	DL	2	3	224.0	
							4" AVERAGE DEPTH USED FOR CALCULATIONS
							CONVERSION FACTOR -112 LBS/CF
					TOTAL	3994.6	
					ADDITIONAL	399.5	
					USE	4394	

SUMMARY OF QUANTITIES
SHEET 8 OF 13

STATE OF MISSOURI
MARIA K. PETERS
NUMBER PE-2000162118
PROFESSIONAL ENGINEER
Maria Peters
08/06/2024 12:44:06 PM
MARIA K. PETERS - CIVIL
MO-PE-2000162118

DATE PREPARED
8/6/2024

ROUTE	STATE
50	MO
DISTRICT	SHEET NO.
CD	3

COUNTY
OSAGE / GASCONADE

JOB NO.
JCD0044

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)

PERMANENT PAVEMENT MARKING

			HIGH BUILD WATERBORNE PAVEMENT MARKING PAINT, TYPE L BEADS					THERMOPLASTIC PAVEMENT MARKING						
LOG MILE	LOG MILE	LOCATION	LENGTH FT	4" INT. YELLOW LF	4" SOLID YELLOW LF	6" INT. WHITE LF	6" SOLID WHITE LF	8" SOLID WHITE LF	24" SOLID WHITE LF	24" SOLID YELLOW LF	LT ARROW EA	RT ARROW EA	LANE REDUCTION ARROW EA	REMARKS
159.238	159.542	ROUTE 50	1605		3210		3210							
159.499		ROUTE 50											1	SEE PAVEMENT MARKING SHEET
159.542		ROUTE 50											1	SEE PAVEMENT MARKING SHEET
159.584		ROUTE 50											1	SEE PAVEMENT MARKING SHEET
159.542	160.056	ROUTE 50	2714		5428	679	5428							WB CLIMBING LANE TAPER
160.056	160.200	ROUTE 50	760		1520		1520							WB CLIMBING LANE
160.190	-	ROUTE W/ROUTE 50	-		80		80		20					ROUTE W INTERSECTION
160.200	160.276	ROUTE 50	401		1604		802			45				TWLTL TAPER
160.276	160.352	ROUTE 50	401	68	735		822				5			TWLTL TO MO 100
160.352	-	ROUTE 100/ROUTE 50	-		180		240	75	12					ROUTE 100 INTERSECTION
160.352	160.473	ROUTE 50	639	319.5	1278		1488				2	2		TWLTL FROM MO 100
160.473	160.583	ROUTE 50	581		2324		1162			70				TWLTL TAPER
160.583	160.805		1173		2346		2346							NO PASSING
160.805	161.030		1188		2376		-							NO PASSING
161.030	161.124		497	125	-		-							PASSING
161.124	161.625		2646	662	-		5292							PASSING
161.625	161.645		106	27	106		212							WB PASSING
161.645	161.750		555		1110		1110							NO PASSING
161.750	161.845		502	126	502		1004							EB PASSING
160.824	-	ROUTE U/ROUTE 50	-		60		80							
161.845	161.895		265		530		530							NO PASSING
161.895	162.035		740	185	740		1480							EB PASSING
162.035	162.090		291	73	-		-							PASSING
162.090	162.204		602	151	602		-							WB PASSING
162.201	-	ROUTE 89/ROUTE 50	-		180		142		37					ROUTE 89 INTERSECTION
162.204	162.284		423		846		846							NO PASSING
162.284	162.364		423	106	423		846							EB PASSING
162.364	162.464		528	132	-		1056							PASSING
162.464	162.585		639	160	639		1278							WB PASSING
162.585	162.694		576		1152		1152							NO PASSING
162.694	162.824		687	172	687		1374							EB PASSING
162.824	162.844		106		212		212							NO PASSING
162.844	162.944		528	132	528		1056							WB PASSING
162.944	163.304		1901		3802		3802							NO PASSING
163.304	163.966		3496		-		-							J5P3574 EXCEPTION
163.966	164.066		528		1056		1056							NO PASSING
164.066	164.396		1743	436	1743		3486							EB PASSING
164.396	165.990		8417		16834		16834							NO PASSING
165.540	-	ROUTE 89/ROUTE 50	-		190		190		14					ROUTE 89 INTERSECTION
165.990	166.145		819	205	819		1638							EB PASSING
166.145	166.785		3380		6760		6760							NO PASSING
166.785	166.895		581	146	581		1162							WB PASSING
166.895	167.193		1574		3148		3148							NO PASSING
167.193	167.312		629	158	629		1258							EB PASSING
167.312	168.363		5550		11100		11100							NO PASSING
167.530	-	ROUTE 89 SPUR/ROUTE 50	-		360		190	200	29					ROUTE 89 SPUR INTERSECTION
168.363	168.487		655	164	655		1310							EB PASSING
168.487	168.702		1136	284	1136		2272							WB PASSING
168.702	170.481		9394		18788		18788							NO PASSING
170.481	170.536		291	73	291		582							EB PASSING
170.536	171.937		7398		14796		14796							NO PASSING
		SUBTOTAL 1		3904.5	112086	679	123140	275	112	115	7	2	3	

SIGN POSTS

LOG MILE	LOCATION	SIGN ID	2" PSST POST 9031270A LF	CONCRETE 7-GA. ANCHOR 9031274 EA	BREAK-AWAY ASSEMBLY 9031241 EA	CONCRETE FOOTINGS EMBEDDED 9031010 CY	REMARKS
160.352	ROUTE 50 LT	STOP SIGN	14	1	1	0.14	ROUTE 100 INTERSECTION
192.167	ROUTE 50 RT	STOP SIGN	14	1	1	0.14	ROUTE 28 INTERSECTION
		TOTAL	28	2	2	0.3	

SUMMARY OF QUANTITIES
SHEET 9 OF 13

STATE OF MISSOURI
MARIA K. PETERS
NUMBER PE-2000162118
PROFESSIONAL ENGINEER
Maria Peters
08/06/2024 12:44:30 PM
MARIA K. PETERS - CIVIL
MO-PE-2000162118

DATE PREPARED
8/6/2024

ROUTE	STATE
50	MO
DISTRICT	SHEET NO.
CD	3

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DESCRIPTION | DATE

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

PERMANENT PAVEMENT MARKING

			HIGH BUILD WATERBORNE PAVEMENT MARKING PAINT, TYPE L BEADS					THERMOPLASTIC PAVEMENT MARKING						
LOG MILE	LOG MILE	LOCATION	LENGTH FT	4" INT. YELLOW LF	4" SOLID YELLOW LF	6" INT. WHITE LF	6" SOLID WHITE LF	8" SOLID WHITE LF	24" SOLID WHITE LF	24" SOLID YELLOW LF	LT ARROW EA	RT ARROW EA	LANE REDUCTION ARROW EA	REMARKS
171.937	172.023		455	114	455		910	-	-		-	-	-	EB PASSING
172.023	172.422		2107	-	4214		4214	-	-		-	-	-	NO PASSING
172.422	172.612		1004	251	1004		2008	-	-		-	-	-	EB PASSING
172.612	172.732		634	159	-		1268	-	-		-	-	-	PASSING
172.732	172.932		1056	264	1056		2112	-	-		-	-	-	WB PASSING
172.932	174.287		7155	-	14310		14310	-	-		-	-	-	NO PASSING
174.287	174.467		951	238	951		1902	-	-		-	-	-	EB PASSING
174.467	174.723		1352	338	-		2704	-	-		-	-	-	PASSING
174.723	174.877		814	204	814		1628	-	-		-	-	-	WB PASSING
174.877	175.112		1241	-	2482		2482	-	-		-	-	-	NO PASSING
175.112	175.291		946	237	946		1892	-	-		-	-	-	EB PASSING
175.270	-	ROUTE A/ROUTE 50	-	-	290		420	175	17		-	-	-	ROUTE A INTERSECTION
175.291	175.546		1347	337	-		2694	-	-		-	-	-	PASSING
175.546	175.661		608	152	608		1216	-	-		-	-	-	WB PASSING
175.661	176.003		1806	-	3612		3612	-	-		-	-	-	NO PASSING
176.003	176.148		766	192	766		1532	-	-		-	-	-	EB PASSING
176.148	176.342		1025	257	1025		2050	-	-		-	-	-	WB PASSING
176.342	176.492		792	-	1584		1584.0	-	-		-	-	-	NO PASSING
176.484	-	ROUTE BB/ROUTE 50	-	-	30		-	-	16		-	-	-	ROUTE BB
176.492	176.581		470	118	470		940	-	-		-	-	-	EB PASSING
176.581	176.741		845	212	845		1690	-	-		-	-	-	WB PASSING
176.741	177.065		1711	-	3422		3422	-	-		-	-	-	NO PASSING
177.065	177.290		1188	297	1188		2376	-	-		-	-	-	EB PASSING
177.290	177.600		1637	-	3274		3274	-	-		-	-	-	NO PASSING
177.600	177.700		528	132	528		1056	-	-		-	-	-	EB PASSING
177.700	177.890		1004	251	1004		2008	-	-		-	-	-	WB PASSING
177.890	178.250		1901	-	3802		3802	-	-		-	-	-	NO PASSING
178.250	178.430		951	238	1902		1902	-	-		-	-	-	EB PASSING
178.430	178.540		581	-	1162		1162	-	-		-	-	-	NO PASSING
178.540	178.720		951	238	951		1902	-	-		-	-	-	EB PASSING
178.720	179.080		1901	-	3802		3802	-	-		-	-	-	NO PASSING
179.080	179.265		977	245	977		1954	-	-		-	-	-	EB PASSING
179.265	179.832		2994	749	-		5988	-	-		-	-	-	PASSING
179.832	179.997		872	218	872		1744	-	-		-	-	-	WB PASSING
179.863	-	ROUTE K/ROUTE 50	-	-	140		-	90	20		-	-	-	ROUTE K INTERSECTION
179.863	-	ROUTE P/ROUTE 50	-	-	40		40	-	16		-	-	-	ROUTE P INTERSECTION
179.997	180.091		497	-	994		994	-	-		-	-	-	NO PASSING
180.091	180.276		977	245	977		1954	-	-		-	-	-	EB PASSING
180.276	180.391		608	152	-		1216	-	-		-	-	-	PASSING
180.391	180.551		845	212	845		1690	-	-		-	-	-	WB PASSING
180.551	180.701		793	-	1586		1586	-	-		-	-	-	NO PASSING
180.701	180.876		925	232	925		1850	-	-		-	-	-	EB PASSING
180.876	181.001		660	165	-		1320	-	-		-	-	-	PASSING
181.001	181.171		898	225	898		1796	-	-		-	-	-	WB PASSING
181.171	181.661		2588	-	5176		5176	-	-		-	-	-	NO PASSING
181.661	181.780		629	158	629		1258	-	-		-	-	-	EB PASSING
181.780	181.850		370	93	-		740	-	-		-	-	-	PASSING
181.850	182.050		1057	265	1057		2114	-	-		-	-	-	WB PASSING
182.050	183.188		6009	-	12018		12018	-	-		-	-	-	NO PASSING
183.188	183.308		634	159	634		1268	-	-		-	-	-	EB PASSING
183.308	184.129		4335	-	8670		8670	-	-		-	-	-	NO PASSING
		SUBTOTAL 2	7347		92935	0	129250	265	69	0	0	0	0	

PERMANENT PAVEMENT MARKING

THERMOPLASTIC PAVEMENT MARKING

LOG MILE	LOCATION	30" MIDBLOCK WHITE EA	REMARKS
160.990	ROUTE 50	6	LINN MIDBLOCK CROSSWALK
161.020	ROUTE 50	8	LINN MIDBLOCK CROSSWALK
161.060	ROUTE 50	7	LINN MIDBLOCK CROSSWALK
161.115	ROUTE 50	6	LINN MIDBLOCK CROSSWALK
161.165	ROUTE 50	6	LINN MIDBLOCK CROSSWALK
161.245	ROUTE 50	5	LINN MIDBLOCK CROSSWALK
162.005	ROUTE 50	8	LINN MIDBLOCK CROSSWALK
193.079	ROUTE 50	5	ROSEBUD MIDBLOCK CROSSWALK
	TOTAL	51	
	USE	51	

SUMMARY OF QUANTITIES
SHEET 10 OF 13

STATE OF MISSOURI
MARIA K PETERS
NUMBER PE-2000162118
PROFESSIONAL ENGINEER
Maria Peters
08/06/2024 12:44:54 PM
MARIA K. PETERS - CIVIL
MO-PE-2000162118

DATE PREPARED
8/6/2024

ROUTE	STATE
50	MO
DISTRICT	SHEET NO.
CD	3

COUNTY
OSAGE / GASCONADE

JOB NO.
JCD0044

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)

PERMANENT PAVEMENT MARKING

			HIGH BUILD WATERBORNE PAVEMENT MARKING PAINT, TYPE L BEADS					THERMOPLASTIC PAVEMENT MARKING						
LOG MILE	LOG MILE	LOCATION	LENGTH FT	4" INT. YELLOW LF	4" SOLID YELLOW LF	6" INT. WHITE LF	6" SOLID WHITE LF	8" SOLID WHITE LF	24" SOLID WHITE LF	24" SOLID YELLOW LF	LT ARROW EA	RT ARROW EA	LANE REDUCTION ARROW EA	REMARKS
184.129	184.300		903	226	903		1806	-	-		-	-	-	EB PASSING
184.300	184.460		845	212	845		1690	-	-		-	-	-	WB PASSING
184.460	185.580		5914	-	11828		11828	-	-		-	-	-	NO PASSING
185.154	-	ROUTE 19/ROUTE 50	-	-	220		166	-	17		-	-	-	ROUTE 19 INTERSECTION
185.281	-	ROUTE 19/ROUTE 50	-	-	42		125	-	16		-	-	-	ROUTE 19 INTERSECTION
185.580	185.700		634	159	634		1268	-	-		-	-	-	EB PASSING
185.700	185.759		312	-	624		624	-	-		-	-	-	NO PASSING
185.759	185.870		587	147	587		1174	-	-		-	-	-	WB PASSING
185.870	186.043		914	-	1828		1828	-	-		-	-	-	NO PASSING
185.883	-	ROUTE 19/ROUTE 50	-	-	80		175	-	-		-	-	-	SEE PROJECT JCD0045 PLANS
186.043	186.233		1004	251	1004		2008	-	-		-	-	-	EB PASSING
186.233	186.398		872	218	872		1744	-	-		-	-	-	WB PASSING
186.398	186.418		106	-	212		212	-	-		-	-	-	NO PASSING
186.418	186.538		634	159	634		1268	-	-		-	-	-	EB PASSING
186.538	186.683		766	192	766		1532	-	-		-	-	-	WB PASSING
186.683	187.080		2097	-	4194		4194	-	-		-	-	-	NO PASSING
187.080	187.220		740	185	740		1480	-	-		-	-	-	EB PASSING
187.220	187.300		423	106	-		846	-	-		-	-	-	PASSING
187.300	187.500		1056	264	1056		2112	-	-		-	-	-	WB PASSING
187.500	187.624		655	-	1310		1310	-	-		-	-	-	NO PASSING
187.624	187.739		608	152	608		1216	-	-		-	-	-	EB PASSING
187.739	189.263		8047	-	16094		16094	-	-		-	-	-	NO PASSING
189.263	189.378		608	152	608		1216	-	-		-	-	-	EB PASSING
189.378	190.396		5376	-	10752		10752	-	-		-	-	-	NO PASSING
190.396	190.506		581	146	581		1162	-	-		-	-	-	EB PASSING
190.506	190.626		634	159	634		1268	-	-		-	-	-	WB PASSING
190.626	190.736		581	-	1162		1162	-	-		-	-	-	NO PASSING
190.736	190.861		660	165	660		1320	-	-		-	-	-	EB PASSING
190.861	190.906		238	-	476		476	-	-		-	-	-	NO PASSING
190.906	191.026		634	159	634		1268	-	-		-	-	-	WB PASSING
191.026	191.055		154	-	308		308	-	-		-	-	-	NO PASSING
191.055	191.180		660	165	660		1320	-	-		-	-	-	EB PASSING
191.180	191.636		2408	-	4816		4816	-	-		-	-	-	NO PASSING
191.636	191.776		740	185	740		1480	-	-		-	-	-	EB PASSING
191.776	192.106		1743	436	-		3486	-	-		-	-	-	PASSING
192.106	192.295	ROUTE 50 TO 28 TURN LANE	998	-	2940		2231	230	-		2	-	-	
71.035	71.203	ROUTE 28	888	-	1776		1776	-	-		-	-	-	
71.203	71.260	ROUTE 28	301	-	602		903	-	14		-	-	-	
71.206	-	ROUTE 28	-	-	-		-	-	-		1	1	-	
71.238	-	ROUTE 28	-	-	-		-	-	-		1	1	-	
192.295	192.430		713	-	1426		1426	-	-		-	-	-	NO PASSING
192.430	192.561		692	173	692		1384	-	-		-	-	-	WB PASSING
192.561	192.601		212	-	424		424	-	-		-	-	-	NO PASSING
192.601	192.696		502	126	502		1004	-	-		-	-	-	EB PASSING
192.696	193.448		3971	993	-		7942	-	144		-	-	-	PASSING
193.448	193.563		608	152	608		1216	-	-		-	-	-	WB PASSING
193.563	194.157		3137	-	6274		6274	-	-		-	-	-	NO PASSING
194.157	194.257		528	132	528		1056	-	-		-	-	-	EB PASSING
194.257	194.382		660	-	1320		1320	-	-		-	-	-	NO PASSING
194.382	194.502		634	159	634		1268	-	-		-	-	-	EB PASSING
194.502	194.983		2540	-	5080		5080	-	-		-	-	-	NO PASSING
		SUBTOTAL 3	5573	89918	0		118038	230	191	0	4	2	0	
		SUBTOTAL 2	7347	92935	0		129250	265	69	0	0	0	0	
		SUBTOTAL 1	3905	112086	679		123140	275	112	115	7	2	3	
		TOTAL	16825	294939	679		370428	770	372	115	11	4	3	
		USE	311764		371107			770	372	115	15		3	

SUMMARY OF QUANTITIES
SHEET 11 OF 13

STATE OF MISSOURI
MARIA K. PETERS
NUMBER PE-2000162118
PROFESSIONAL ENGINEER
Maria Peters
08/06/2024 12:45:20 PM
MARIA K. PETERS - CIVIL
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DATE PREPARED
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ROUTE 50 | STATE MO
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MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

SHOULDER REPAIR - CITY OF LINN

LOG MILE	LOG MILE	LOCATION	LANE	LENGTH FT	WIDTH FT	SHOULDER REPAIR SY	REMARKS
161.253		ROUTE 50	EB	8	8	7.11	
161.417		ROUTE 50	EB	20	8	17.78	
					TOTAL	24.9	
					USE	24.9	

SHOULDER WORK - CITY OF LINN

APPROX. LOG MILE	APPROX. LOG MILE	LENGTH FEET	AVG. WIDTH FEET	DEPTH (IN.)	BP-1 1.980 TONS/CY TONS	SP125C 1.927 TONS/CY TONS	TACK 0.10 GAL/SY GAL	BITUMINOUS COLDMILLING SY	REMARKS
LEFT (NORTH) SHOULDER									
160.957	160.983	138	4	2	-	6.6	6	61	APPROX. 1ST STREET
160.983	161.069	455	2	2	-	10.8	10	101	
161.069	161.124	291	8	2	28.5	-	26	259	
161.124	161.164	212	6	2	15.5	-	14	141	
161.164	161.615	2382	2	2	-	56.7	53	529	
161.615	161.665	264	5	2	16.1	-	15	147	TAPER (2'-8')
161.665	161.704	206	8	2	20.1	-	18	183	
161.704	161.754	264	7	2	22.6	-	21	205	TAPER (8'-6')
161.754	161.820	349	6	2	25.6	-	23	233	APPROX. 160' EAST OF CRD 303
RIGHT (SOUTH) SHOULDER									
160.957	160.969	64	12	2	9.4	-	9	85	
160.969	160.990	111	10	2	13.6	-	12	123	
160.990	161.009	101	5	2	6.2	-	6	56	
161.009	161.020	59	6	2	4.3	-	4	39	
161.020	161.116	507	5	2	31.0	-	28	282	
161.116	161.184	360	5	2	22.0	-	20	200	
161.184	161.408	1183	9	2	130.1	-	118	1183	
161.408	161.945	2836	9	2	312.0	-	284	2836	APPROX. 12TH STREET
				TOTAL	657.0	74.1	667	6663	
				USE	657.0	74.1	667	6,663	

SUMMARY OF QUANTITIES
SHEET 12 OF 13

STATE OF MISSOURI
MARIA K. PETERS
NUMBER PE-2000162118
PROFESSIONAL ENGINEER
Maria Peters
08/14/2024 9:53:23 AM
MARIA K. PETERS - CIVIL
MO-PE-2000162118

DATE PREPARED
8/14/2024

ROUTE	STATE
50	MO
DISTRICT	SHEET NO.
CD	3

COUNTY
OSAGE / GASCONADE

JOB NO.
JCD0044

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)

EFFECTIVE: 07-01-2024

SIGN	SIZE IN.	AREA SQ.FT.	QTY EACH	TOTAL AREA SQ.FT.	QTY RELOC EACH	TOTAL RELOC SQ.FT.	SIGN NUM.	DESCRIPTION
WARNING SIGNS								
WO1-1L	48X48	16.00						TURN (SYMBOL LEFT)
WO1-1R	48X48	16.00						TURN (SYMBOL RIGHT)
WO1-2L	48X48	16.00						CURVE (SYMBOL LEFT)
WO1-2R	48X48	16.00						CURVE (SYMBOL RIGHT)
WO1-3L	48X48	16.00						REVERSE TURN (SYMBOL LEFT)
WO1-3R	48X48	16.00						REVERSE TURN (SYMBOL RIGHT)
WO1-4L	48X48	16.00	2	32			15	REVERSE CURVE (SYMBOL LEFT)
WO1-4R	48X48	16.00	2	32			15A	REVERSE CURVE (SYMBOL RIGHT)
WO1-4bL	48X48	16.00						DOUBLE ARROW REVERSE CURVE (SYMBOL LEFT)
WO1-4bR	48X48	16.00						DOUBLE ARROW REVERSE CURVE (SYMBOL RIGHT)
WO1-4cL	48X48	16.00						TRIPLE ARROW REVERSE CURVE (SYMBOL LEFT)
WO1-4cR	48X48	16.00						TRIPLE ARROW REVERSE CURVE (SYMBOL RIGHT)
WO1-6	60X30	12.50						HORIZONTAL ARROW (SYMBOL)
WO1-6a	72X36	18.00						HORIZ. ARROW (SYMBOL ON PERMANENT BARRICADE)
WO1-7	60X30	12.50						DOUBLE HEAD HORIZONTAL ARROW (SYMBOL)
WO1-7a	72X36	18.00						DOUBLE HEAD HORIZ. ARROW (SYMBOL ON PERM. BARR.)
WO1-8	18X24	3.00						CHEVRON (SYMBOL)
WO1-8a	30X36	7.50						CHEVRON (SYMBOL FOR DIVIDED HIGHWAYS)
WO3-1	48X48	16.00						STOP AHEAD (SYMBOL)
WO3-2	48X48	16.00						YIELD AHEAD (SYMBOL)
WO3-3	48X48	16.00						SIGNAL AHEAD (SYMBOL)
WO3-4	48X48	16.00	29	464			11	BE PREPARED TO STOP
WO3-5	48X48	16.00						SPEED LIMIT AHEAD
WO4-1L	48X48	16.00						MERGE (SYMBOL FROM LEFT)
WO4-1R	48X48	16.00						MERGE (SYMBOL FROM RIGHT)
WO4-1aL	48X48	16.00						MERGE (LEFT)
WO4-1aR	48X48	16.00						MERGE (RIGHT)
WO5-1	48X48	16.00						ROAD/BRIDGE/RAMP NARROWS
WO5-3	48X48	16.00						ONE LANE BRIDGE
WO5-5	48X48	16.00	1	16			34	NARROW LANES
WO6-1	48X48	16.00						DIVIDED HIGHWAY (SYMBOL)
WO6-2	48X48	16.00						DIVIDED HIGHWAY END (SYMBOL)
WO6-3	48X48	16.00						TWO WAY TRAFFIC (SYMBOL)
WO7-3a	30X24	5.00						NEXT XX MILES (PLAQUE)
WO8-1	48X48	16.00	13	208			10	BUMP
WO8-2	48X48	16.00						DIP
WO8-3	48X48	16.00						PAVEMENT ENDS
WO8-4	48X48	16.00						SOFT SHOULDER
WO8-5	48X48	16.00						SLIPPERY WHEN WET (SYMBOL)
WO8-6	48X48	16.00						TRUCK CROSSING
WO8-6c	48X48	16.00						TRUCK ENTRANCE
WO8-7	36X36	9.00						LOOSE GRAVEL
WO8-7a	36X36	9.00						FRESH OIL / LOOSE GRAVEL
WO8-9	48X48	16.00						LOW SHOULDER
WO8-11	48X48	16.00	72	1152			36	UNEVEN LANES
WO8-12	48X48	16.00	36	576			35	NO CENTER LINE
WO8-15	48X48	16.00						GROOVED PAVEMENT
WO8-15P	30X24	5.00						MOTORCYCLE (PLAQUE)
WO8-17L	48X48	16.00						SHOULDER DROP-OFF (SYMBOL LEFT)
WO8-17R	48X48	16.00						SHOULDER DROP-OFF (SYMBOL RIGHT)
WO8-17P	30X24	5.00						SHOULDER DROP-OFF (PLAQUE)
W10-1	42RND.	9.62						RAILROAD CROSSING
WO12-1	24X24	4.00						DOUBLE DOWN ARROW (SYMBOL)
WO12-2	48X48	16.00						LOW CLEARANCE (SYMBOL)
WO12-2x	24X18	3.00						LOW CLEARANCE (PLAQUE)
WO12-2a	84X24	14.00						OVERHEAD LOW CLEARANCE (FEET AND INCHES)
WO12-4	120X60	50.00						LOW CLEARANCE XX FT XX IN XX MILES AHEAD
WO12-5	120X60	50.00						WIDTH RESTRICTION XX FT XX IN XX MILES AHEAD
WO13-1	30X30	6.25						ADVISORY SPEED (PLAQUE)
WO16-2	30X24	5.00						XXX FEET (PLAQUE)
WO16-3	30X24	5.00						X MILE (PLAQUE)
WO20-1	48X48	16.00	31	496			2	ROAD/BRIDGE/RAMP WORK AHEAD
WO20-2	48X48	16.00						DETOUR AHEAD
WO20-3	48X48	16.00						ROAD CLOSED AHEAD
WO20-4	48X48	16.00	6	96			7	ONE LANE ROAD AHEAD
WO20-5	48X48	16.00	2	32				RIGHT/CENTER/LEFT LANE CLOSED AHEAD
WO20-5a	48X48	16.00	2	32				2 RIGHT/CENTER/LEFT LANES CLOSED AHEAD
WO20-6a	48X48	16.00	2	32			6	RIGHT/CENTER/LEFT LANE CLOSED
WO20-7a	48X48	16.00	29	464			8	FLAGGER (SYMBOL)
WO21-2	36X36	9.00						FRESH OIL
WO21-5	48X48	16.00	2	32			21	SHOULDER WORK / SHOULDER WORK AHEAD
WO22-1	48X48	16.00						BLASTING ZONE AHEAD
WO22-2	42X36	10.50						TURN OFF 2-WAY RADIO AND PHONE
WO22-3	42X36	10.50						END BLASTING ZONE
GO22-1	21X15	2.19	4	8.76				WET PAINT (ARROW PIVOTS)

SIGN	SIZE IN.	AREA SQ.FT.	QTY EACH	TOTAL SQ.FT.	QTY RELOC EACH	TOTAL RELOC SQ.FT.	SIGN NUM.	DESCRIPTION
GUIDE SIGNS								
E05-1	36X48	12.00						GORE EXIT
E05-2	48X36	12.00						EXIT OPEN
E05-2a	48X36	12.00						EXIT CLOSED
GO20-1	60X24	10.00	2	20			1	ROAD WORK NEXT 36 MILES
GO20-2	48X24	8.00	2	16			26	END ROAD WORK
GO20-4	36X18	4.50	1	4.5			53	PILOT CAR FOLLOW ME
GO20-4a	42X30	8.75	3	26.25			58	PILOT CAR IN USE WAIT & FOLLOW
GO20-4a	18X12	1.50	23	34.5			58	PILOT CAR IN USE WAIT & FOLLOW
GO20-5aP	36X24	6.00						WORK ZONE (PLAQUE)
MO4-8a	24X18	3.00						END DETOUR
MO4-9L	48X36	12.00						DETOUR (LEFT)
MO4-9R	48X36	12.00						DETOUR (RIGHT)
MO4-9P	48X12	4.00						STREET NAME (PLAQUE)
MO4-10L	48X18	6.00						DETOUR ARROW (LEFT)
MO4-10R	48X18	6.00						DETOUR ARROW (RIGHT)
REGULATORY SIGNS								
R1-1	48X48	13.25	2	26.5				STOP
R1-2	48TRI.	6.93						YIELD
R1-2a	36X36	9.00						TO ONCOMING TRAFFIC (PLAQUE)
R1-3P	30X12	2.50						ALL WAY (PLAQUE)
R2-1	36X48	12.00						SPEED LIMIT XX
R3-1	48X48	16.00						NO RIGHT TURN (SYMBOL)
R3-2	48X48	16.00	2	32			55	NO LEFT TURN (SYMBOL)
R3-3	36X36	9.00						NO TURNS
R3-4	48X48	16.00	2	32			56	NO U-TURN (SYMBOL)
R3-7L	30X30	6.25						LEFT LANE MUST TURN LEFT
R3-7R	30X30	6.25						RIGHT LANE MUST TURN RIGHT
R4-1	36X48	12.00						DO NOT PASS
R4-2	36X48	12.00						PASS WITH CARE
R4-7a	36X48	12.00	2	24			42	KEEP RIGHT (HORIZONTAL ARROW)
R4-8a	36X48	12.00						KEEP LEFT (HORIZONTAL ARROW)
R5-1	30X30	6.25						DO NOT ENTER
R5-1a	36X24	6.00						WRONG WAY
R6-1L	54X18	6.75						ONE WAY ARROW (LEFT)
R6-1R	54X18	6.75						ONE WAY ARROW (RIGHT)
R6-2L	24X30	5.00						ONE WAY (LEFT)
R6-2R	24X30	5.00						ONE WAY (RIGHT)
R9-9	24X12	2.00						SIDEWALK CLOSED
R9-11L	24X18	3.00						SIDEWALK CLOSED AHEAD, (ARROW LEFT) CROSS HERE
R9-11R	24X18	3.00						SIDEWALK CLOSED AHEAD, (ARROW RIGHT) CROSS HERE
R10-6	24X36	6.00						STOP HERE ON RED (45^ ARROW)
R11-2	48X30	10.00						ROAD CLOSED
R11-3a	60X30	12.50						ROAD CLOSED XX MILES AHEAD LOCAL TRAFFIC ONLY
R11-4	60X30	12.50						ROAD CLOSED TO THRU TRAFFIC
CONST-3A	60X48	20.00						FINE SIGN
CONST-3X	56X12	4.67						SPEEDING/PASSING (PLATE)
MISCELLANEOUS SIGNS								
CONST-5	48X36	12.00						POINT OF PRESENCE
CONST-5	96X48	32.00	2	64			61	POINT OF PRESENCE
CONST-8	48X36	12.00	2	24			33	WORK ZONE NO PHONE ZONE

CONSTRUCTION SIGNS (FOR INFO ONLY)	TOTAL	FOR INFORMATIONAL PURPOSES ONLY
	3977	
616-10.10 RELOCATED SIGNS		TOTAL
		0

ITEM NUMBER	TOTAL QTY	DESCRIPTION
6122008		IMPACT ATTENUATOR 40 MPH (SAND BARRELS)
6122009		IMPACT ATTENUATOR 45 MPH (SAND BARRELS)
6122010		IMPACT ATTENUATOR 50 MPH (SAND BARRELS)
6122012		IMPACT ATTENUATOR 55 MPH (SAND BARRELS)
6122014		IMPACT ATTENUATOR 60 MPH (SAND BARRELS)
6122017		IMPACT ATTENUATOR 65 MPH (SAND BARRELS)
6122019		IMPACT ATTENUATOR 70 MPH (SAND BARRELS)
6122020		REPLACEMENT SAND BARREL
6122030		IMPACT ATTENUATOR (RELOCATION)
6123001		TRUCK MOUNTED ATTENUATOR (TMA)
6161008		ADVANCED WARNING RAIL SYSTEM
6161012		BUOYS (BOATS KEEP OUT)
6161013		BUOYS (NO WAKE)
6161014		SPECIAL SIGN ASSEMBLY (BOATS KEEP OUT)
6161025	675	CHANNELIZER (TRIM LINE)
6161030		TYPE III MOVEABLE BARRICADE
6161033		DIRECTION INDICATOR BARRICADE
6161040		FLASHING ARROW PANEL
6161047		TYPE III OBJECT MARKER
6161055		SEQUENTIAL FLASHING WARNING LIGHT
6161070		TUBULAR MARKER
6161095		RADAR SPEED ADVISORY SYSTEM
6161096		CHANGEABLE MESSAGE SIGN, COMMISSION FURNISHED/RETAINED
6161098A		CHANGEABLE MESSAGE SIGN W/O COMM. INTERFACE - CONTRACTOR FURNISHED/RETAINED
6161099	** 4	CHANGEABLE MESSAGE SIGN WITH COMM. INTERFACE - CONTRACTOR FURNISHED/RETAINED
6162000A		WORK ZONE TRAFFIC SIGNAL SYSTEM
6162002		TEMPORARY LONG-TERM RUMBLE STRIPS
6173600D		TEMPORARY TRAFFIC BARRIER CONTRACTOR FURNISHED/RETAINED
6173602B		TEMPORARY TRAFFIC BARRIER CONTRACTOR FURNISHED/COMMISSION RETAINED
6174000A		TEMP. TRAFFIC BARRIER HEIGHT TRANSITION
6175010A		RELOCATING TEMPORARY TRAFFIC BARRIER
6176000B		TEMPORARY TRAFFIC BARRIER COMMISSION FURNISHED/RETAINED
6177000B		TEMP. TRAFFIC BARRIER HEIGHT TRANSITION COMMISSION FURNISHED/RETAINED
6208064A		TEMPORARY RAISED PAVEMENT MARKER
9029400		TEMPORARY TRAFFIC SIGNALS
9029401		TEMPORARY TRAFFIC SIGNALS AND LIGHTING

616-99.01
TEMPORARY TRAFFIC CONTROL
PAY TOTAL = 1 LUMP SUM

** NOT INCLUDED IN TEMPORARY TRAFFIC CONTROL - 1 LUMP SUM QUANTITY

NOTE: ALL TRAFFIC CONTROL ARE INCLUDED IN PAY ITEM 616-99.01, LUMP SUM TEMPORARY TRAFFIC CONTROL UNLESS NOTED OTHERWISE IN THE PLANS. THESE QUANTITIES ARE ONLY AN ESTIMATE & ARE SUBJECT TO CHANGE BASED UPON FIELD CONDITIONS.

NO DIRECT PAY WILL BE MADE FOR RELOCATION OF CONSTRUCTION SIGNS OR DEVICES.

SUMMARY OF QUANTITIES

SHEET 13 OF 13

STATE OF MISSOURI
MARIA K. PETERS
NUMBER PE-2000162118
PROFESSIONAL ENGINEER
Maria Peters
08/06/2024 12:46:15 PM
MARIA K. PETERS - CIVIL
MO-PE-2000162118

DATE PREPARED
8/6/2024

ROUTE	STATE
50	MO

DISTRICT	SHEET NO.
CD	3

COUNTY
OSAGE / GASCONADE

JOB NO.
JCD0044

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

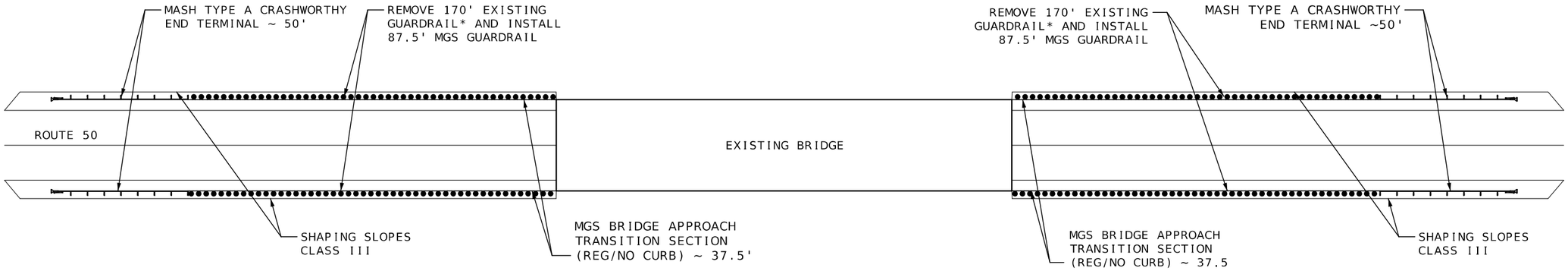
DESCRIPTION

DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

* INCLUDES GUARDRAIL, END TERMINALS, AND TRANSITIONS



SPECIAL SHEET
MGS GUARDRAIL DETAILS
SHEET 1 OF 5

STATE OF MISSOURI
MARIA K. PETERS
NUMBER PE-2000162118
PROFESSIONAL ENGINEER
Maria Peters
08/05/2024 12:47:52 PM
MARIA K. PETERS - CIVIL
MO-PE-2000162118

DATE PREPARED
8/6/2024

ROUTE	STATE
50	MO
DISTRICT	SHEET NO.
CD	4

COUNTY
OSAGE / GASCONADE

JOB NO.
JCD0044

CONTRACT ID.
####

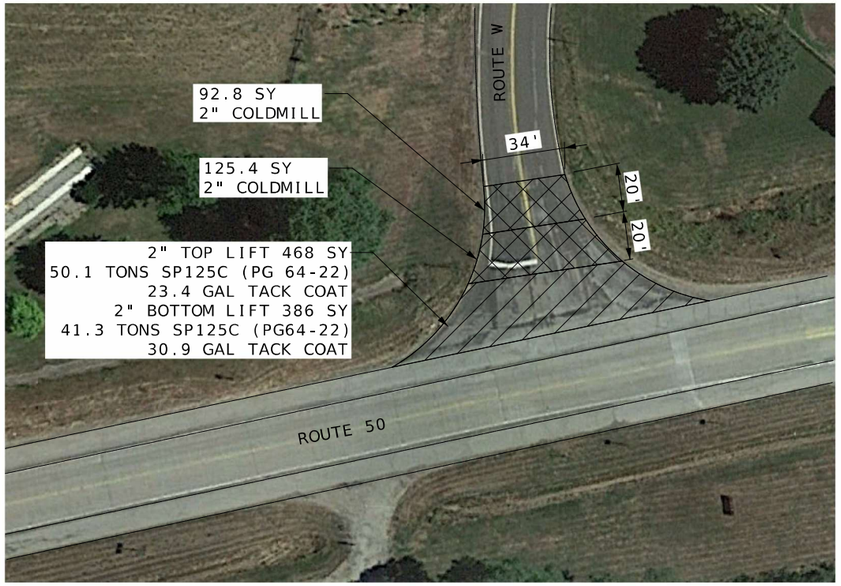
PROJECT NO.
####

BRIDGE NO.
####

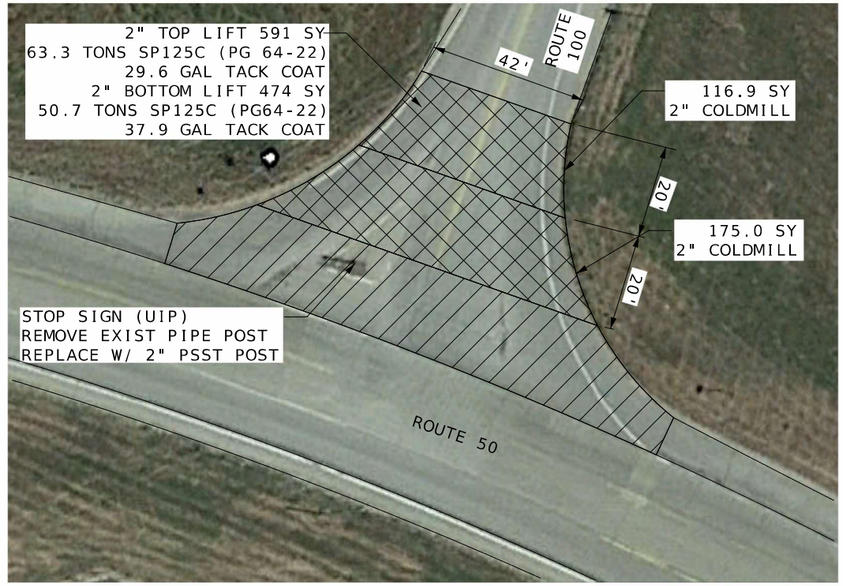
DESCRIPTION	DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

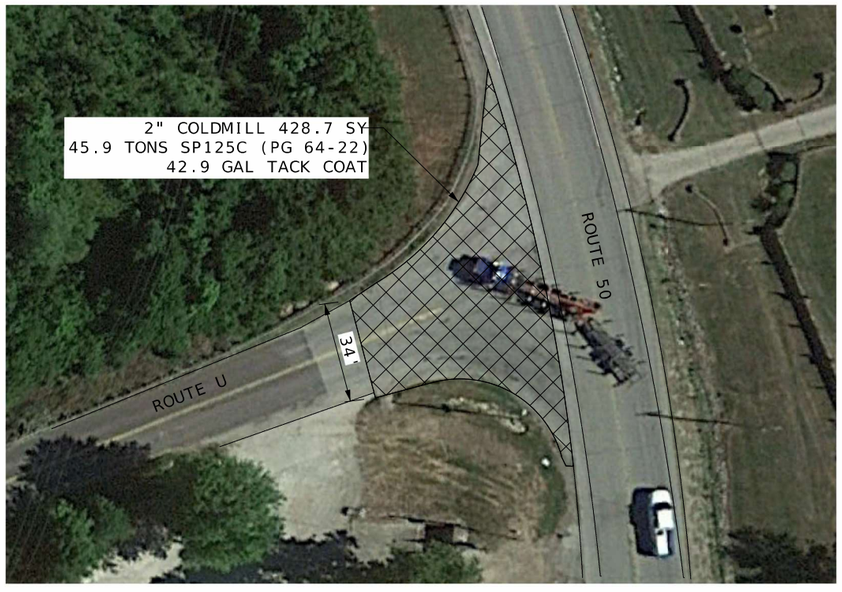


ROUTE 50 AND ROUTE W INTERSECTION
LOG MILE 160.190



ROUTE 50 AND ROUTE 100 INTERSECTION
LOG MILE 160.352

NOT TO SCALE



ROUTE 50 AND ROUTE U INTERSECTION
LOG MILE 160.824

ROUTE 50 AND ROUTE 89 INTERSECTION
LOG MILE 162.201

SPECIAL SHEET
INTERSECTION PAVING
SHEET 2 OF 5

STATE OF MISSOURI
MARIA K. PETERS
NUMBER PE-2000162118
PROFESSIONAL ENGINEER
Maria Peters
08/06/2024 12:48:18 PM
MARIA K. PETERS - CIVIL
MO-PE-2000162118

DATE PREPARED
8/6/2024

ROUTE	STATE
50	MO
DISTRICT	SHEET NO.
CD	5

COUNTY
OSAGE / GASCONADE

JOB NO.
JCD0044

CONTRACT ID.

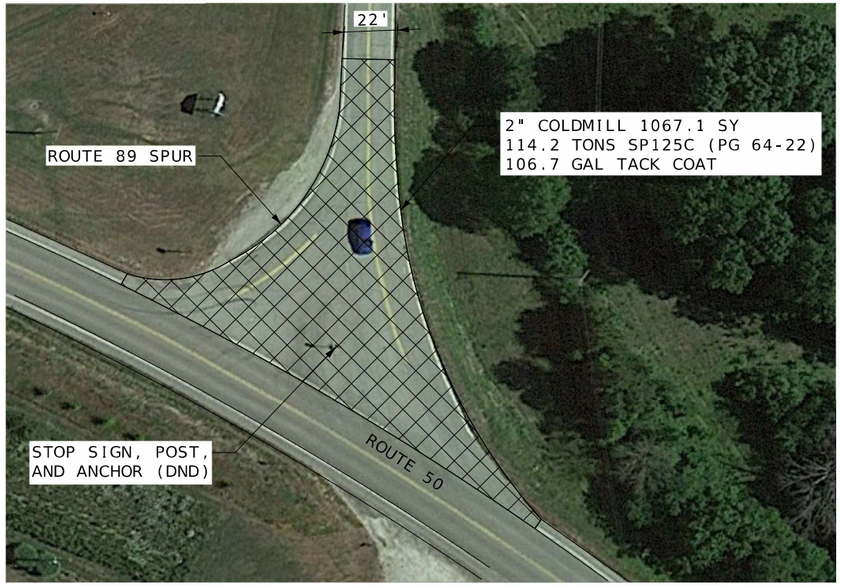
PROJECT NO.

BRIDGE NO.

DESCRIPTION	DATE

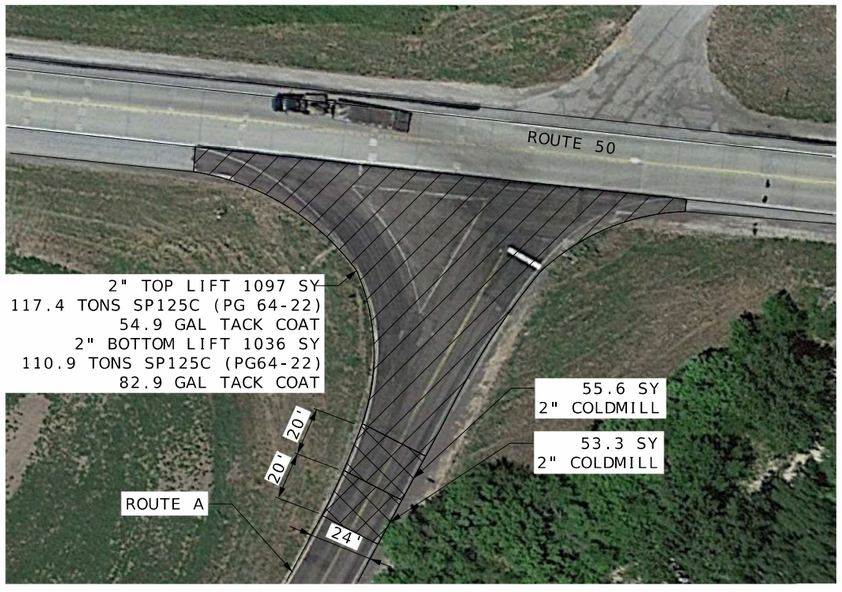
MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

ROUTE 50 AND ROUTE 89 NORTH INTERSECTION
LOG MILE 165.540

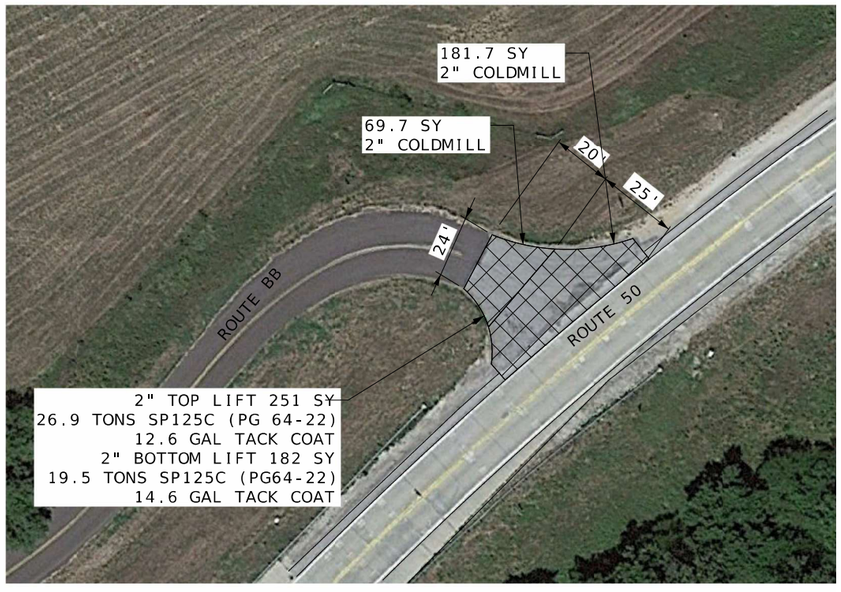


ROUTE 50 AND ROUTE 89 SPUR INTERSECTION
LOG MILE 167.530

NOT TO SCALE



ROUTE 50 AND ROUTE A INTERSECTION
LOG MILE 175.270



ROUTE 50 AND ROUTE BB INTERSECTION
LOG MILE 176.484

SPECIAL SHEET
INTERSECTION PAVING
SHEET 3 OF 5

STATE OF MISSOURI
MARIA K. PETERS
NUMBER PE-2000162118
PROFESSIONAL ENGINEER
Maria Peters
08/06/2024 12:48:45 PM
MARIA K. PETERS - CIVIL
MO-PE-2000162118

DATE PREPARED
8/6/2024

ROUTE	STATE
50	MO
DISTRICT	SHEET NO.
CD	6

COUNTY
OSAGE / GASCONADE

JOB NO.
JCD0044

CONTRACT ID.

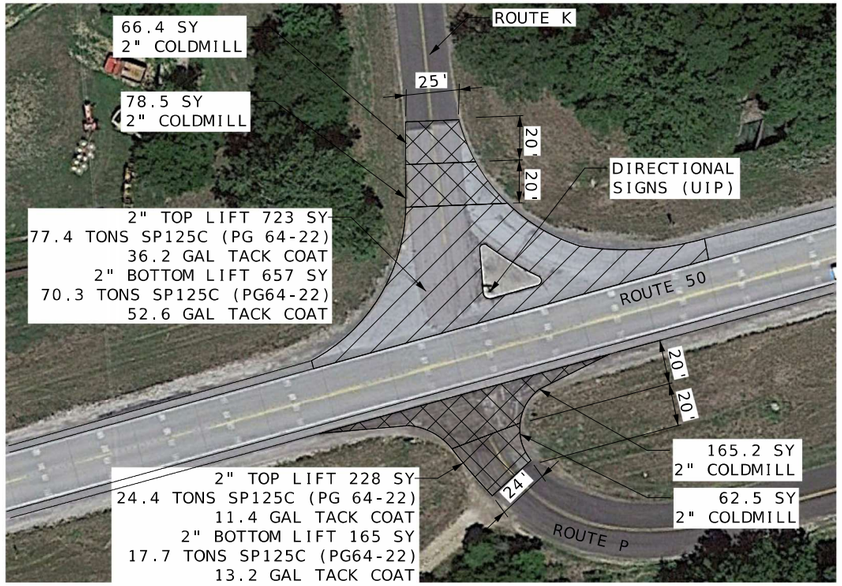
PROJECT NO.

BRIDGE NO.

DESCRIPTION	DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)



ROUTE 50 AND ROUTE K/P INTERSECTION
LOG MILE 179.863

ROUTE 50 AND ROUTE 19 INTERSECTION
LOG MILE 185.154

NOT TO SCALE

ROUTE 50 AND ROUTE 19 INTERSECTION
LOG MILE 185.281

SPECIAL SHEET
INTERSECTION PAVING
SHEET 4 OF 5

STATE OF MISSOURI
MARIA K. PETERS
NUMBER PE-2009162118
PROFESSIONAL ENGINEER
Maria Peters
08/06/2024 12:49:17 PM
MARIA K. PETERS - CIVIL
MO-PE-2009162118

DATE PREPARED
8/6/2024

ROUTE	STATE
50	MO
DISTRICT	SHEET NO.
CD	7

COUNTY
OSAGE / GASCONADE

JOB NO.
JCD0044

CONTRACT ID.

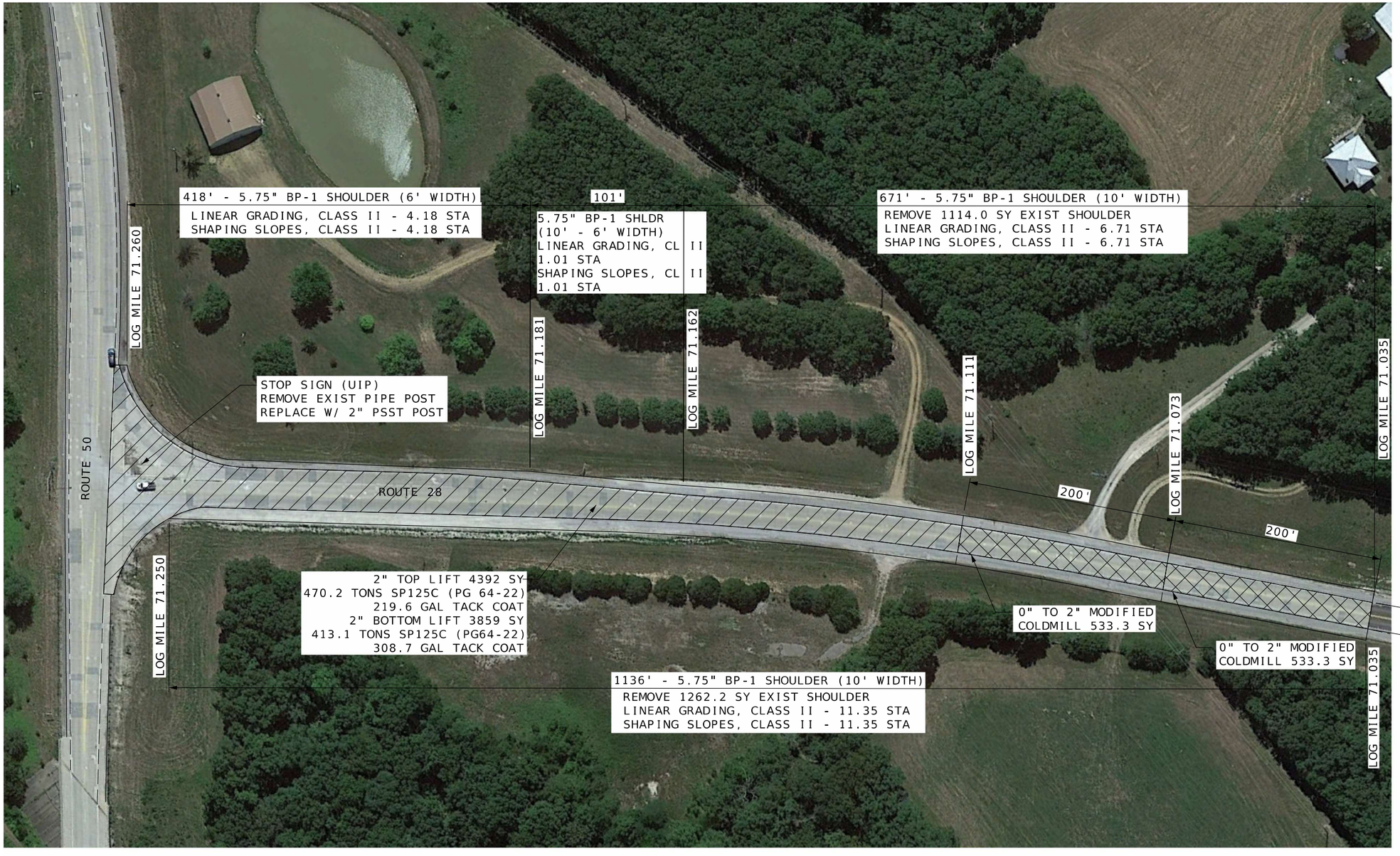
PROJECT NO.

BRIDGE NO.

DESCRIPTION	DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)



ROUTE 50 AND ROUTE 28 INTERSECTION
ROUTE 50 - LOG MILE 192.166
ROUTE 28 - LOG MILE 71.035 TO LOG MILE 71.260

NOT TO SCALE

SPECIAL SHEET
ROUTE 28 INTERSECTION
SHEET 5 OF 5

STATE OF MISSOURI
MARIA K. PETERS
NUMBER PE-2009162118
PROFESSIONAL ENGINEER
Maria Peters
08/06/2024 12:49:47 PM
MARIA K PETERS - CIVIL
MO-PE-2009162118

DATE PREPARED
8/6/2024

ROUTE	STATE
50	MO
DISTRICT	SHEET NO.
CD	8

COUNTY
OSAGE / GASCONADE

JOB NO.
JCD0044

CONTRACT ID.

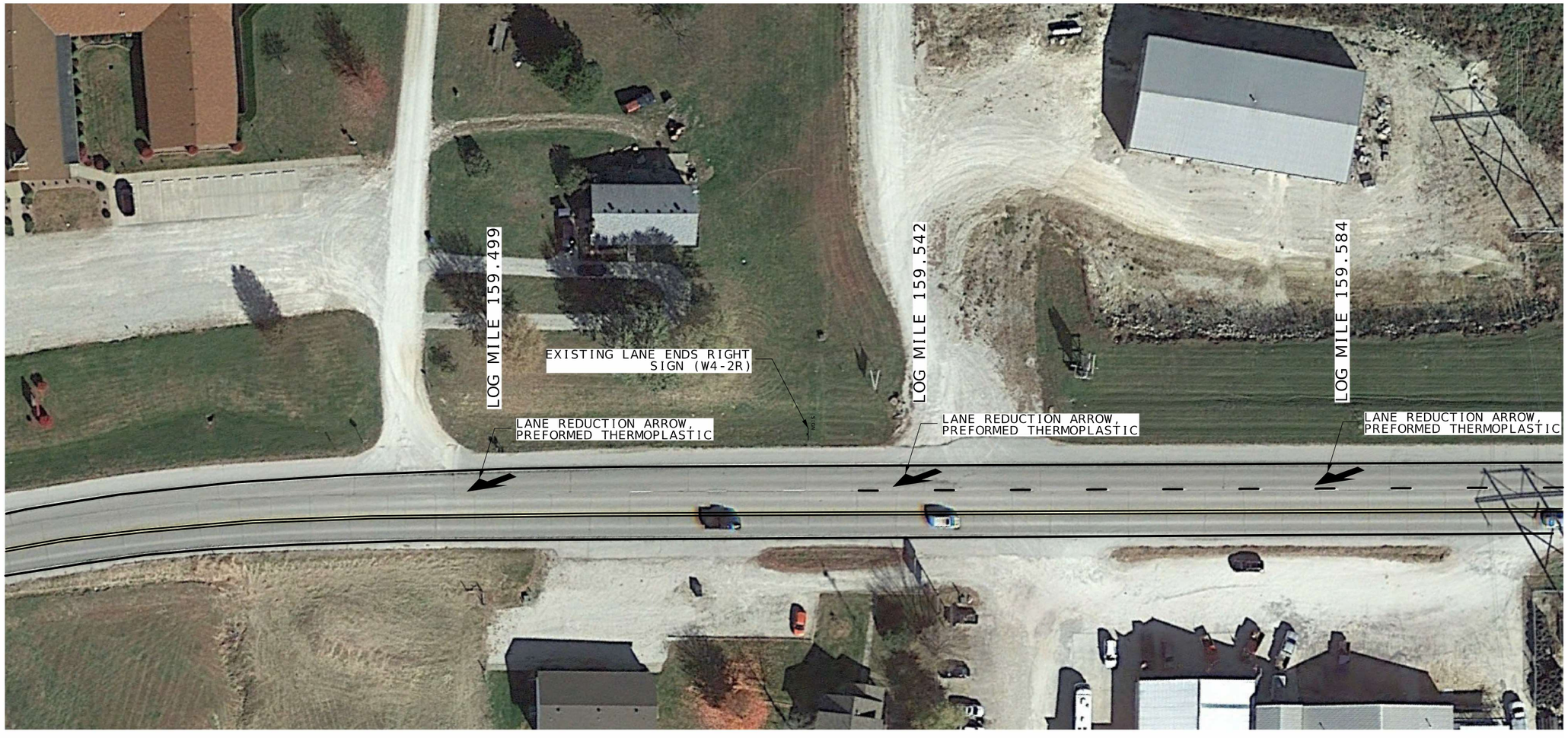
PROJECT NO.

BRIDGE NO.

DESCRIPTION	DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)



LINN LANE REDUCTION STRIPING

PAVEMENT MARKING
SHEET 1 OF 1

STATE OF MISSOURI
MARIA K. PETERS
NUMBER PE-2000162118
PROFESSIONAL ENGINEER
Maria Peters
08/06/2024 12:50:13 PM
MARIA K. PETERS - CIVIL
MO-PE-2000162118

DATE PREPARED
8/6/2024

ROUTE	STATE
50	MO
DISTRICT	SHEET NO.
CD	9

COUNTY
OSAGE / GASCONADE

JOB NO.
JCD0044

CONTRACT ID.

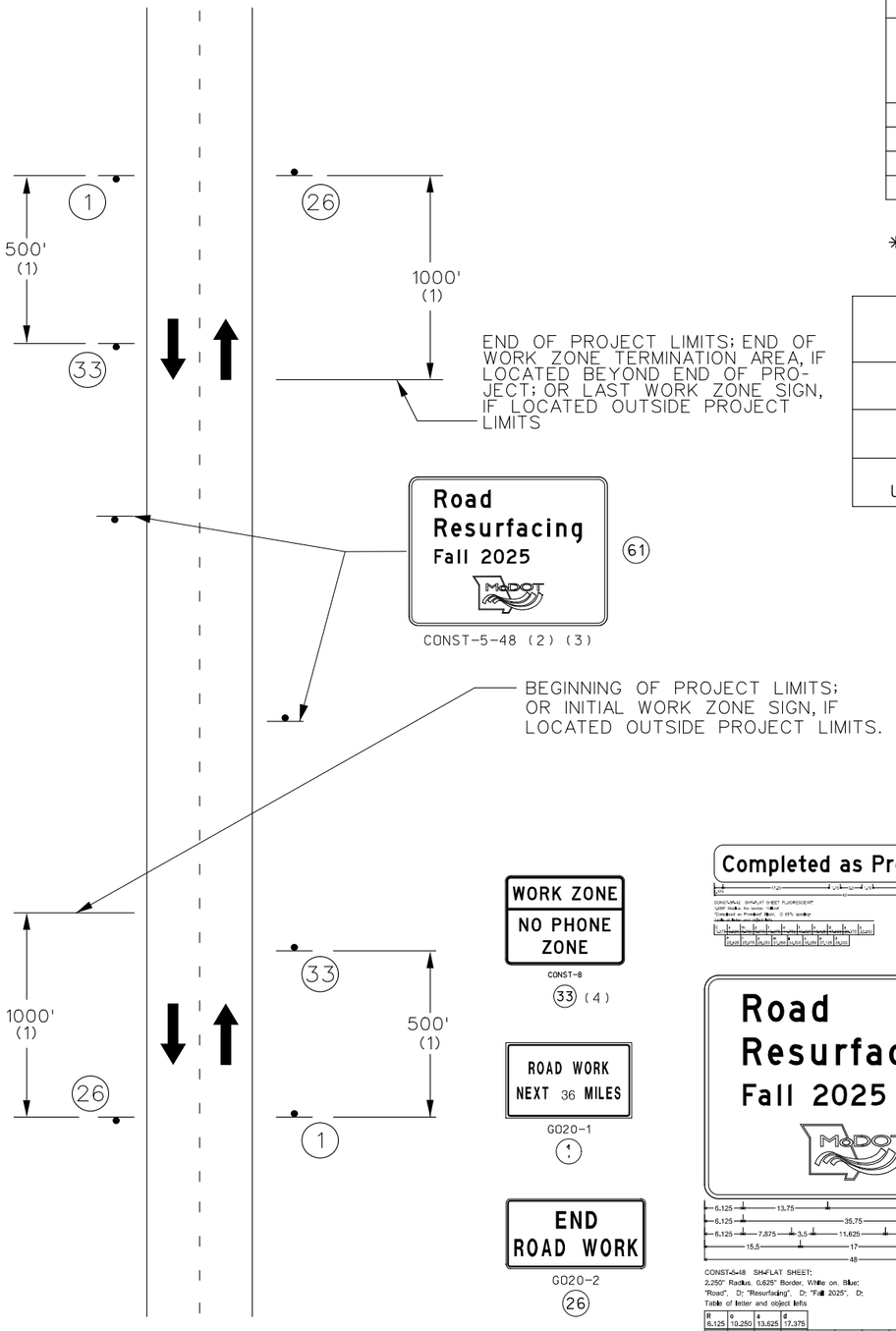
PROJECT NO.

BRIDGE NO.

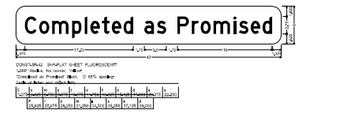
DESCRIPTION	DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)



TWO-LANE UNDIVIDED
BEGIN/END OF PROJECT SIGNING
(FOR USE ON ALL PROJECTS)



61

TAPER LENGTHS AND SPACING FOR CHANNELIZERS

PERMANENT POSTED SPEED MPH	MINIMUM LANE TAPER LENGTH (3) (T2)			MINIMUM SHOULDER TAPER LENGTH BASED ON 10′ SHOULDER (T1)	BUFFER LENGTH FT. (B)	MAXIMUM CHANNELIZER SPACING	
	10′	11′	12′			THROUGH TAPER	THROUGH WORK AREA
0–35	205′	225′	245′	70′	400′	35′✳	40′✳
40–45	450′	495′	540′	150′	400′	40′✳	80′✳
50–55	550′	605′	660′	185′	560′	50′✳✳	80′✳✳
60–70	700′	770′	840′	235′	840′	60′✳✳	120′✳✳

✳ SPACING REDUCED TO 1/2 AT INTERSECTIONS.
✳✳ SPACING MAY BE REDUCED TO 1/2 AT INTERSECTIONS.

ROADWAY TYPE	SIGN HEIGHT	MAX. WORK ZONE LENGTH (L)
URBAN	1′ PORTABLE 7′ POST	1 MILE
RURAL DIVIDED	1′ PORTABLE 7′ POST	2 MILE
RURAL UNDIVIDED	1′ PORTABLE 5′ POST	3 MILE

SIGN SPACING FOR ADVANCE SIGN SERIES (1) (2)

PERMANENT POSTED SPEED MPH	UNDIVIDED HIGHWAYS (S)	DIVIDED HIGHWAYS (S)
0–35	200′	200′
40–45	350′	500′
50–55	500′	1000′
60–70	1000′	SA – 1000′ SB – 1500′ SC – 2640′

SPACING AND TAPER NOTES:

(1) SPACING BETWEEN SIGNS AND SPACING BETWEEN LAST SIGN AND FLAGGER, BEGINNING OF TAPER, OF SIGNED CONDITION.

(2) SPACINGS MAY BE ADJUSTED AS NECESSARY TO MEET FIELD CONDITIONS ND VISIBILITY.

(3) TAPER LENGTHS SHOWN INCLUDE LENGTH REQUIRED FOR LANE AND 10′ SHOULDER.

GENERAL NOTES:

SIGN G020-2 IS USED ON ALL PROJECTS WHERE SIGN G020-1 IS USED.

OTHER SIGNS SUCH AS DETOUR OR ALTERNATE ROUTE SIGNING MAY BE USED OUTSIDE THE PROJECT LIMITS.

ANY EXISTING SIGNING THAT CONFLICTS WITH THE TRAFFIC CONTROL SIGNING SHALL BE COMPLETELY COVERED OR REMOVED.

ALL SIGNS SHALL BE PORTABLE UNLESS OTHERWISE NOTED.

CMS TO BE LOCATED AS APPROVED BY THE ENGINEER.

(1) DISTANCE MAY BE ADJUSTED ACCORDING TO FIELD CONDITIONS. WHERE TRAFFIC BACKUPS ARE EXPECTED BEYOND THE ADVANCE WARNING AREA, ADDITIONAL SIGNING MAY BE NEEDED.

(2) SIGN CONST-5-96 IS PLACED IN A VISIBLE AREA WITHIN THE PROJECT LIMITS PROVIDED ITS PLACEMENT DOES NOT DISRUPT A SEQUENCE OF SIGNS.

(3) THE "POINT OF PRESENCE" SIGN IS AVAILABLE IN TWO SIZES DEPENDING ON ROADWAY CONDITION. THE 48 IN. X 36 IN. SIGN IS USED ON LOW VOLUME ROUTES THAT CARRY 400 AADT OR LESS, ON PROJECTS THAT HAVE A DURATION OF 4 WEEKS OR LESS OR IN URBAN AREAS WHERE THERE IS INSUFFICIENT RIGHT OF WAY FOR AN EIGHT FOOT WIDE SIGN. THE 96IN. X 48 IN. VERSION OF THE SIGN IS USED IN ALL OTHER APPLICATIONS. BUT CAN ALSO BE USED IN PLACE OF THE 48 IN. X 36 IN. SIGN IF ADDED EMPHASIS IS DEEMED NECESSARY.

(4) THE "WORK ZONE NO PHONE ZONE" SIGN IS PLACED A MINIMUM OF 500 FEET BEFORE THE ROAD WORK AHEAD SIGN.

TEMPORARY TRAFFIC CONTROL SHEET
BEGIN / END PROJECT SIGNING
2-LANE UNDIVIDED
SHEET 1 OF 8

STATE OF MISSOURI
MARIA K. PETERS
NUMBER PE-2000162118
PROFESSIONAL ENGINEER
Maria Peters
08/06/2024 12:54:23 PM
MARIA K. PETERS - CIVIL
MO-PE-2000162118

DATE PREPARED
8/6/2024

ROUTE	STATE
50	MO
DISTRICT	SHEET NO.
CD	10

COUNTY
OSAGE / GASCONADE

JOB NO.
JCD0044

CONTRACT ID.

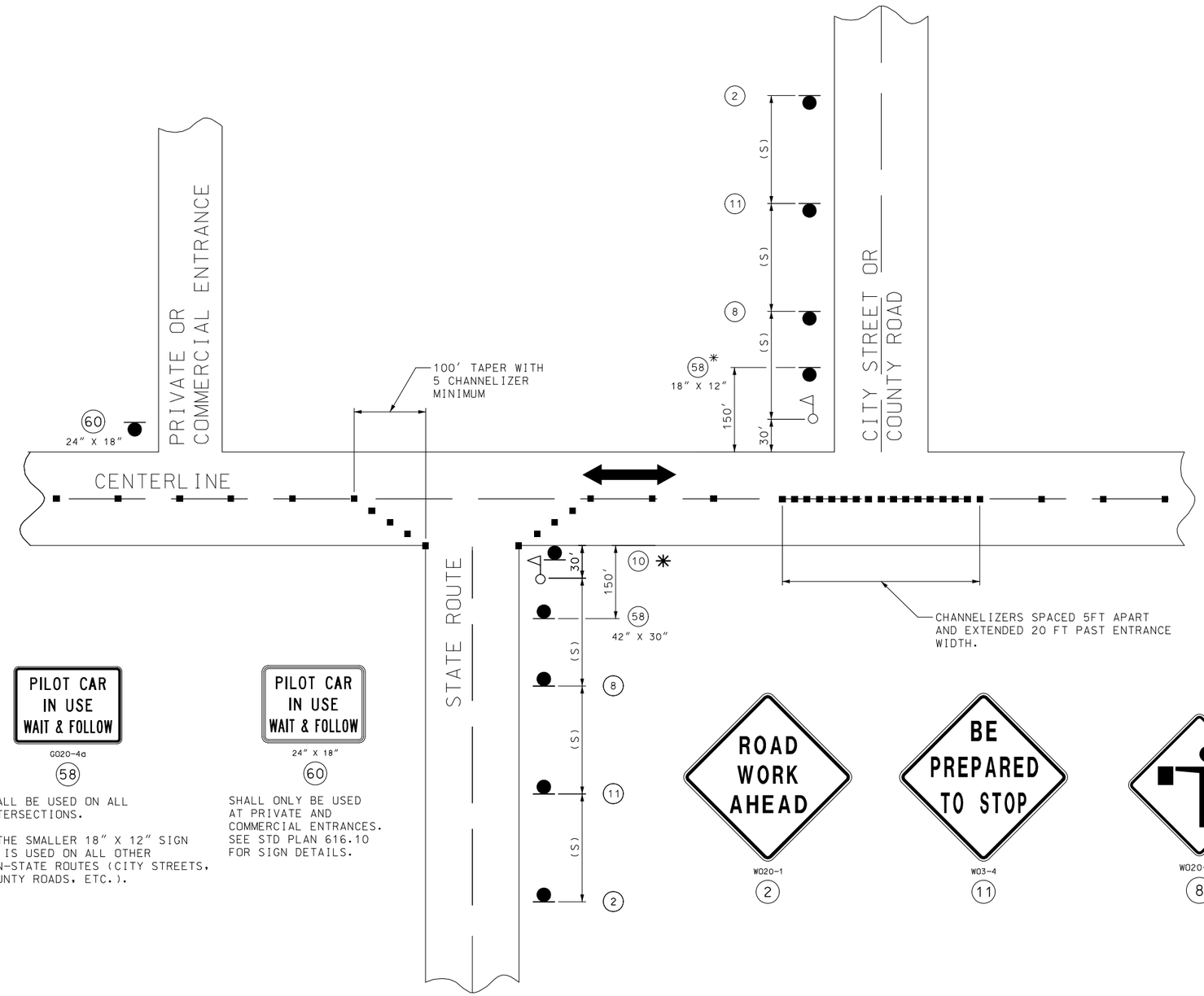
PROJECT NO.

BRIDGE NO.

DESCRIPTION	DATE

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

SIDE ROADS ENTERING WORK ZONES



SPEED	SIGN SPACING (FT) (1)	CHANNELIZER SPACING (FT)
PERMANENT POSTED (MPH)	NON-DIVIDED HIGHWAYS (S)	BUFFER/ WORK AREA (TYP.)
0-35	200	40
40-45	350	80
50-55	500	80
60-70	1000	120

(1) SPACING BETWEEN SIGNS, BETWEEN LAST SIGN AND FLAGGER, BEGINNING OF TAPER OR SIGNED CONDITION.

SPACING MAY BE ADJUSTED AS NECESSARY TO MEET FIELD CONDITIONS.

NOTES:
WARNING SIGNS SHALL BE ERECTED AT EACH INTERSECTION WITH ANOTHER STATE HIGHWAY WITHIN THE WORK ZONE.

ADDITIONAL WARNING SIGNS SHALL BE ERECTED AT OTHER INTERSECTIONS WITHIN THE WORK ZONE, AS DIRECTED BY THE ENGINEER.

■ - CHANNELIZERS (AS SPECIFIED)

- FLAGGER

NOT TO SCALE

G020-4a

58

SHALL BE USED ON ALL INTERSECTIONS.

* THE SMALLER 18″ X 12″ SIGN 58 IS USED ON ALL OTHER NON-STATE ROUTES (CITY STREETS, COUNTY ROADS, ETC.).

24″ X 18″

60

SHALL ONLY BE USED AT PRIVATE AND COMMERCIAL ENTRANCES. SEE STD PLAN 616.10 FOR SIGN DETAILS.

W020-1

2

W03-4

11

W020-7a

8

W08-1

10

* USE IN 4″ OVERLAY SECTIONS AS NEEDED

TEMPORARY TRAFFIC CONTROL SHEET
SIDE ROADS ENTERING WORK ZONES
SHEET 2 OF 8

STATE OF MISSOURI
MARIA K. PETERS
NUMBER PE-2000162118
PROFESSIONAL ENGINEER

Maria Peters
08/06/2024 12:56:10 PM
MARIA K. PETERS - CIVIL
MO-PE-2000162118

DATE PREPARED
8/6/2024

ROUTE	STATE
50	MO
DISTRICT	SHEET NO.
CD	11

COUNTY
OSAGE / GASCONADE

JOB NO.
JCD0044

CONTRACT ID.

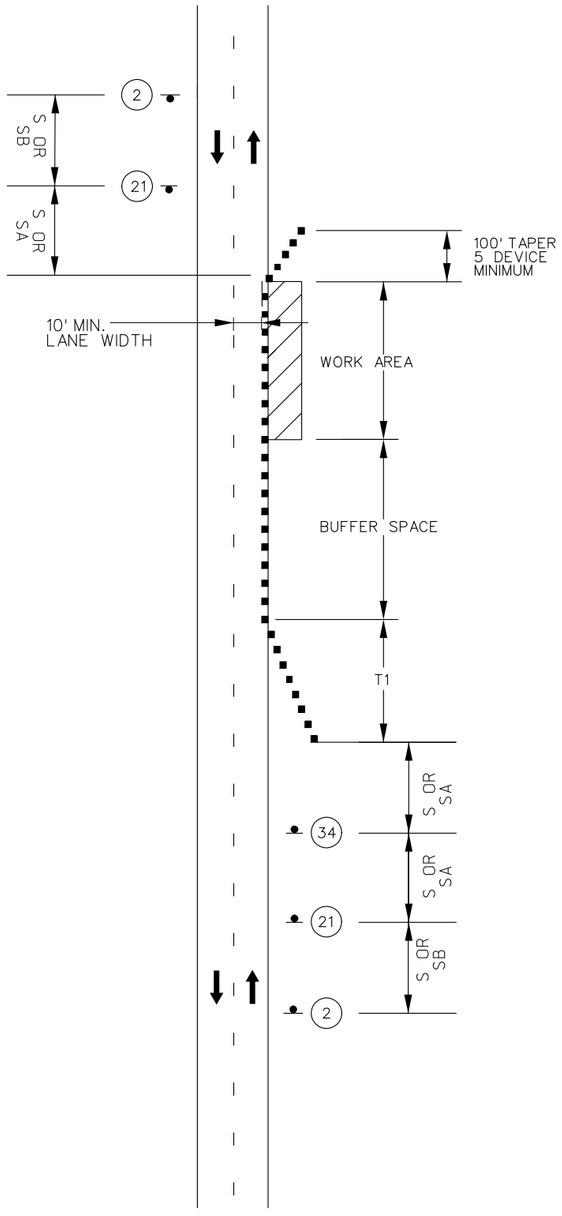
PROJECT NO.

BRIDGE NO.

DESCRIPTION	DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)



TWO LANE UNDIVIDED
SHOULDER WORK
MINOR TRAVELWAY ENCROACHMENT

W020-1

2

W021-5b

21

W05-5

34

NOTES:

SEE TRAFFIC CONTROL SHEET 1 FOR WORKZONE SPEED LIMIT GUIDELINES.

SEE TRAFFIC CONTROL SHEET 1 FOR SIGN SPACING, DEVICE SPACING AND CHANNELIZING TAPER LENGTHS.

SIGN 2 NOT REQUIRED IF SHOULDER WORK IS LOCATED WITHIN THE LIMITS OF AN ACTIVITY AREA WHERE ANOTHER SIGN 2 IS ALREADY USED.

THE PROTECTIVE VEHICLE MAY BE OMITTED IF A TAPER AND CHANNELIZING DEVICES ARE USED.

VEHICLE- MOUNTED SIGNS SHALL BE MOUNTED IN A MANNER SUCH THAT THEY ARE NOT OBSCURED BY EQUIPMENT OR SUPPLIES. SIGN LEGEND ON VEHICLE-MOUNTED SIGNS SHALL BE COVERED OR TURNED FROM VIEW WHEN WORK IS NOT IN PROGRESS.

VEHICLE HAZARD WARNING SIGNALS SHALL NOT BE USED INSTEAD OF THE VEHICLE'S HIGH -INTENSITY ROTATING FLASHING, FLASHING, OSCILLATING, OR STROBE LIGHTS.

SHADOW AND WORK VEHICLES SHALL DISPLAY HIGH-DENSITY ROTATING, FLASHING, OSCILLATING, OR STROBE LIGHTS.

(1). SIGN 44A NOT REQUIRED FOR NARROW LANE SECTIONS LESS THAN ONE MILE.

TEMPORARY TRAFFIC CONTROL SHEET
SHOULDER WORK WITH ENCROACHMENT
ON DIVIDED AND UNDIVIDED HIGHWAYS
SHEET 3 OF 8

STATE OF MISSOURI
MARIA K. PETERS
NUMBER PE-2000162118
PROFESSIONAL ENGINEER
Maria Peters
08/06/2024 12:56:51 PM
MARIA K. PETERS - CIVIL
MO-PE-2000162118

DATE PREPARED
8/6/2024

ROUTE	STATE
50	MO
DISTRICT	SHEET NO.
CD	12

COUNTY
OSAGE / GASCONADE

JOB NO.
JCD0044

CONTRACT ID.

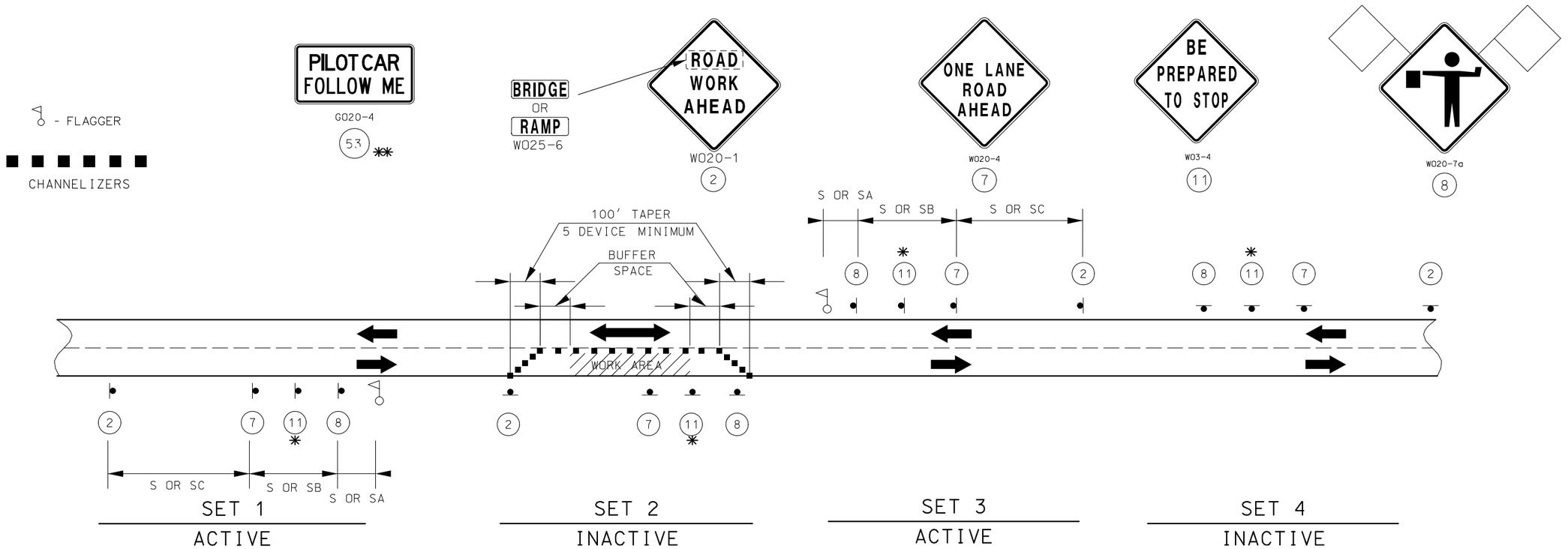
PROJECT NO.

BRIDGE NO.

DESCRIPTION	DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)



SIGN SETS 1 AND 3 ARE ACTIVE AND (I.E., SIGNS FACE ONCOMING TRAFFIC).

SIGN SETS 2 AND 4 ARE INACTIVE (I.E., SIGNS DO NOT FACE EITHER DIRECTION OF TRAFFIC) WHEN THE RESURFACING OPERATION IS LOCATED BETWEEN SIGN SETS 1 AND 3.

WHEN SIGN SETS 2 AND 4 ARE ACTIVE, SIGN SETS 1 AND 3 BECOME INACTIVE AND ARE ADVANCED TO BECOME SETS 2 AND 4 WITH SIGN LEGENDS TURNED AWAY FROM BOTH DIRECTIONS OF TRAFFIC. WHEN THE RESURFACING OPERATION ADVANCES TO BETWEEN SIGN SET 2 AND 4, SIGN SET 2 AND 4 BECOME ACTIVE (I.E. NEW SIGN SET 1 AND 3) AND SIGN SET 1 AND 3 ADVANCED IN THE DIRECTION OF THE OPERATION (I.E. NEW SIGN SET 2 AND 4).

NOTES:

SEE TRAFFIC CONTROL SHEET 1 FOR WORK ZONE SPEED LIMIT GUIDELINES.

SEE TRAFFIC CONTROL SHEET 1 FOR SIGN SPACING, DEVICE SPACING AND CHANNELIZING TAPER LENGTHS.

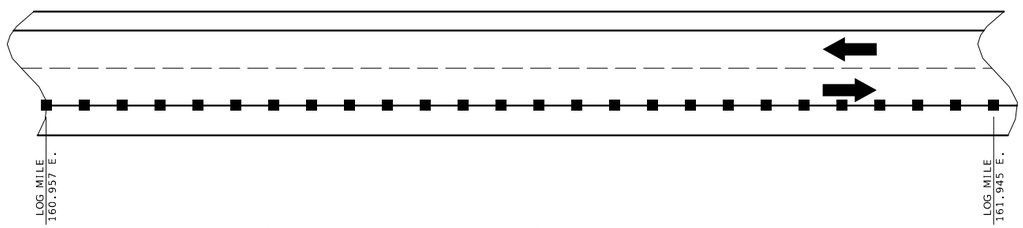
DAYLIGHT FLAGGING OPERATIONS ONLY.

CHANNELIZING DEVICES LOCATED DOWNSTREAM OF THE ONE-LANE, TWO-WAY TAPER ARE OPTIONAL. THESE DEVICES SHOULD BE ELIMINATED WHEN THEIR USE WILL REDUCE THE USEABLE LANE WIDTH, INCLUDING ANY ACCEPTABLE SHOULDERS, TO LESS THAN 10' OR WILL SIGNIFICANTLY AFFECT THE RESURFACING OPERATION.

* THIS SIGN IS INSERTED BETWEEN SIGNS 7 & 8 WITH THE SPACING OF 1/2 THE STANDARD SPACING WHEN NO WORK ZONE SPEED LIMIT IS ESTABLISHED.

** THIS SIGN SHALL BE THE CONTRACTORS RESPONSIBILITY WHEN IN USE DURING OPERATION.

TRAFFIC CONTROL DETAIL
CHANNELIZER LOCATIONS IN CITY OF LINN



CHANNELIZERS TO BE SPACED 10' APART FROM LOG MILE 160.957 E. - 161.945 E.
ALONG THE SOUTH PAVEMENT EDGELINE TO KEEP TRAFFIC OFF OF THE SOUTH SHOULDER
DURING ALL PHASES OF CONSTRUCTION

TEMPORARY TRAFFIC CONTROL SHEET
FLAGGER CONTROL RESURFACING
OR MOVING OPERATION
1 LANE - 2 WAY OPERATION
SHEET 4 OF 8

STATE OF MISSOURI
MARIA K. PETERS
NUMBER PE-2000162118
PROFESSIONAL ENGINEER
Maria Peters
08/06/2024 12:57:16 PM
MARIA K. PETERS - CIVIL
MO-PE-2000162118

DATE PREPARED
8/6/2024

ROUTE	STATE
50	MO
DISTRICT	SHEET NO.
CD	13

COUNTY
OSAGE / GASCONADE

JOB NO.
JCD0044

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)

W020-1

(2)

W020-6a

(6)

CENTER
OR
LEFT

R3-2

(55)

R3-4

(56)

W01-4L

(15)

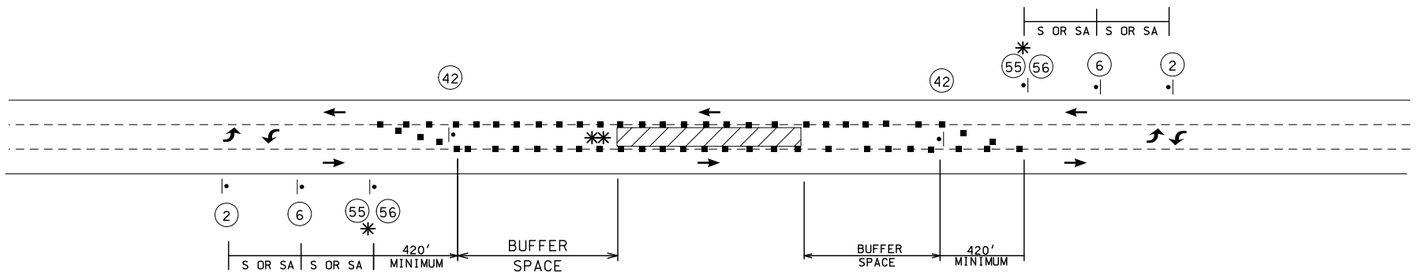
W01-4R

(15A)

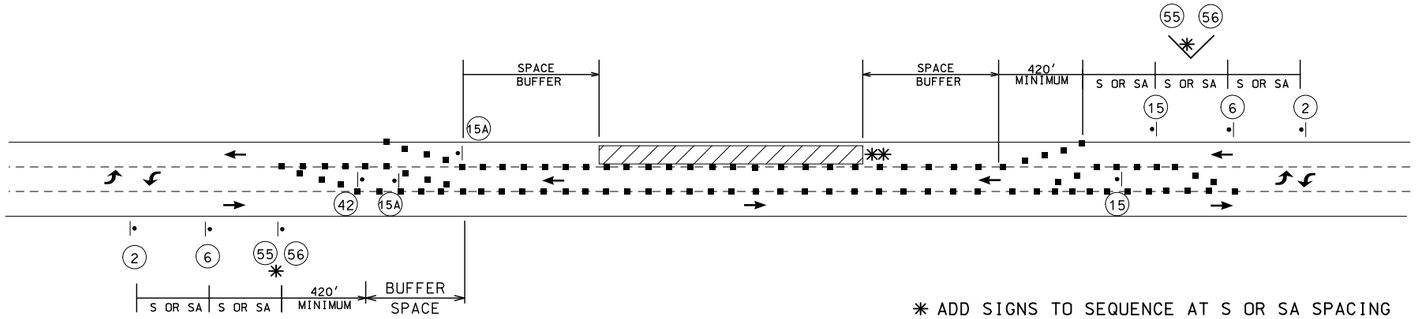
R4-7a

(42)

TWO-WAY LEFT TURN LANE CLOSURE - CENTER LANE



TWO-WAY LEFT TURN LANE CLOSURE - RIGHT LANE



✳ ADD SIGNS TO SEQUENCE AT S OR SA SPACING AS APPROVED BY THE ENGINEER.

✳✳ FOR SHORT TERM OPERATIONS WHERE IT IS NOT FEASIBLE TO MODIFY PAVEMENT MARKING. DEVICE SPACINGS ARE ONE-HALF OF THE SPACING

LONGITUDINAL BUFFER SPACE	
POSTED SPEED PRIOR TO CONSTRUCTION	LENGTH
≤ 35 MPH	400 FT
40-45 MPH	400 FT
50-55 MPH	560 FT
60-70 MPH	840 FT

SPACING OF CHANNELIZING DEVICES		
SPEED MPH	MAXIMUM CHANNELIZER SPACING	
	THROUGH TAPER	THROUGH WORK AREA
≤ 35	35 FT	40 FT
40-45	40 FT	80 FT
50-55	50 FT	80 FT
≥ 60	60 FT	120 FT

SIGN SPACING FOR ADVANCE SIGN SERIES SPACING BETWEEN SIGNS AND SPACING BETWEEN LAST SIGN AND FLAGGER, BEGINNING OF TAPER, OR SIGNED CONDITION. SPACINGS MAY BE ADJUSTED AS NECESSARY TO MEET FIELD CONDITIONS.		
POSTED SPEED MPH (P)	NON-DIVIDED HIGHWAYS (S)	DIVIDED HIGHWAYS (S)
0-35	200 FT	200 FT
40-45	350 FT	500 FT
50-55	500 FT	1000 FT
60-70	SA - 1000 FT, SB - 1500 FT AND SC - 2640 FT	

TRAFFIC CONTROL LEGEND

- SIGN (SINGLE SIDED)
- CHANNELIZER
- WORK ZONE
- FLASHING ARROW PANEL
- SEQUENTIAL FLASHING WARNING LIGHTS

NOTE:

CHANNELIZING DEVICES LOCATED DOWNSTREAM OF THE ONE-LANE, TWO-WAY TAPER ARE OPTIONAL. THESE DEVICES SHOULD BE ELIMINATED WHEN THEIR USE WILL REDUCE THE USABLE LANE WIDTH, INCLUDING ANY ACCEPTABLE SHOULDERS, TO LESS THAN 10' OR WILL SIGNIFICANTLY AFFECT THE RESURFACING OPERATION.

NOT TO SCALE

TEMPORARY TRAFFIC CONTROL SHEET
TWLTL CLOSURE
SHEET 5 OF 8

STATE OF MISSOURI
MARIA K. PETERS
NUMBER PE-2009162118
PROFESSIONAL ENGINEER
Maria Peters
08/06/2024 12:57:43 PM
MARIA K. PETERS - CIVIL
MO-PE-2009162118

DATE PREPARED
8/6/2024

ROUTE	STATE
50	MO
DISTRICT	SHEET NO.
CD	14

COUNTY
OSAGE / GASCONADE

JOB NO.
JCD0044

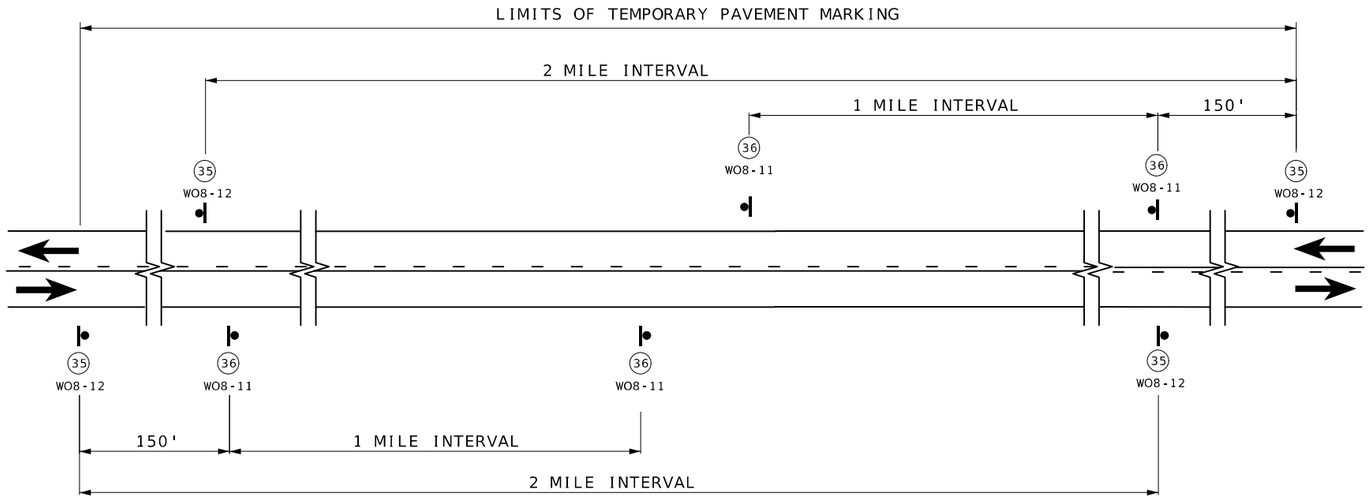
CONTRACT ID.

PROJECT NO.

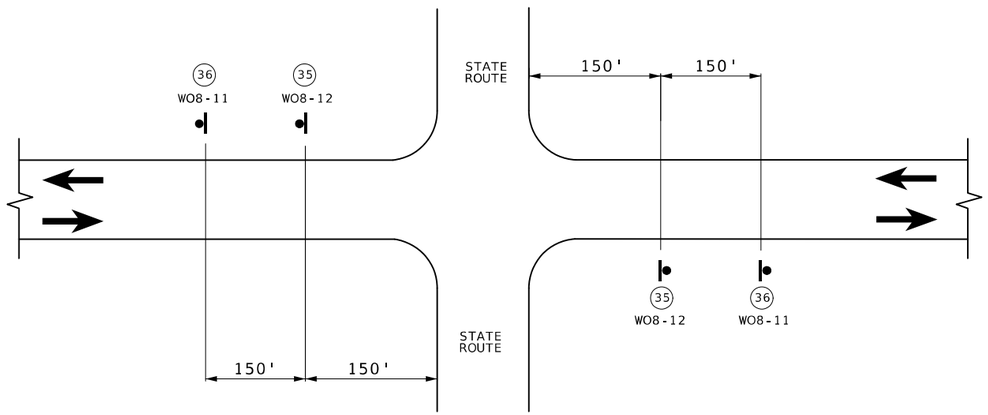
BRIDGE NO.

DESCRIPTION | DATE

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



SIGN SPACING AND TEMPORARY STRIPING FOR MAINLINE



SIGN SPACING AT STATE ROUTE INTERSECTIONS
SHOWING TEMPORARY STRIPING FOR MAINLINE

NOTES:

SIGN (35) AND TEMPORARY RAISED PAVEMENT MARKING (SEE STANDARD PLAN 620.10) INSTALLED WHERE CENTERLINE STRIPING HAS BEEN COVERED OR REMOVED. SIGNS ARE TO REMAIN IN PLACE UNTIL THE PERMANENT CENTERLINE PAVEMENT MARKINGS ARE IN PLACE. SIGNS SHALL BE COVERED OR REMOVED WHEN PAVEMENT CENTERLINE MARKING HAS BEEN INSTALLED.

SIGN (35) IS PLACED AT APPROXIMATELY TWO-MILE INTERVALS AND AT STATE ROUTE JUNCTIONS. WHEN THE INSTALLATION AT A JUNCTION IS WITHIN ONE-EIGHTH MILE OF THE NORMAL MAINLINE SIGN (35), THE LATTER MAY BE ELIMINATED.

ALL SIGNS SHALL BE POST MOUNTED AND IN ACCORDANCE WITH STANDARD PLAN 616.10 AND 903.03.

NOT TO SCALE

TRAFFIC CONTROL
SHEET 6 OF 8

STATE OF MISSOURI
MARIA K. PETERS
NUMBER PE-2000162118
PROFESSIONAL ENGINEER
Maria Peters
05/06/2024 12:58:09 PM
MARIA K. PETERS - CIVIL
MO-PE-2000162118

DATE PREPARED
8/6/2024

ROUTE	STATE
50	MO
DISTRICT	SHEET NO.
CD	15

COUNTY
OSAGE / GASCONADE

JOB NO.
JCD0044

CONTRACT ID.

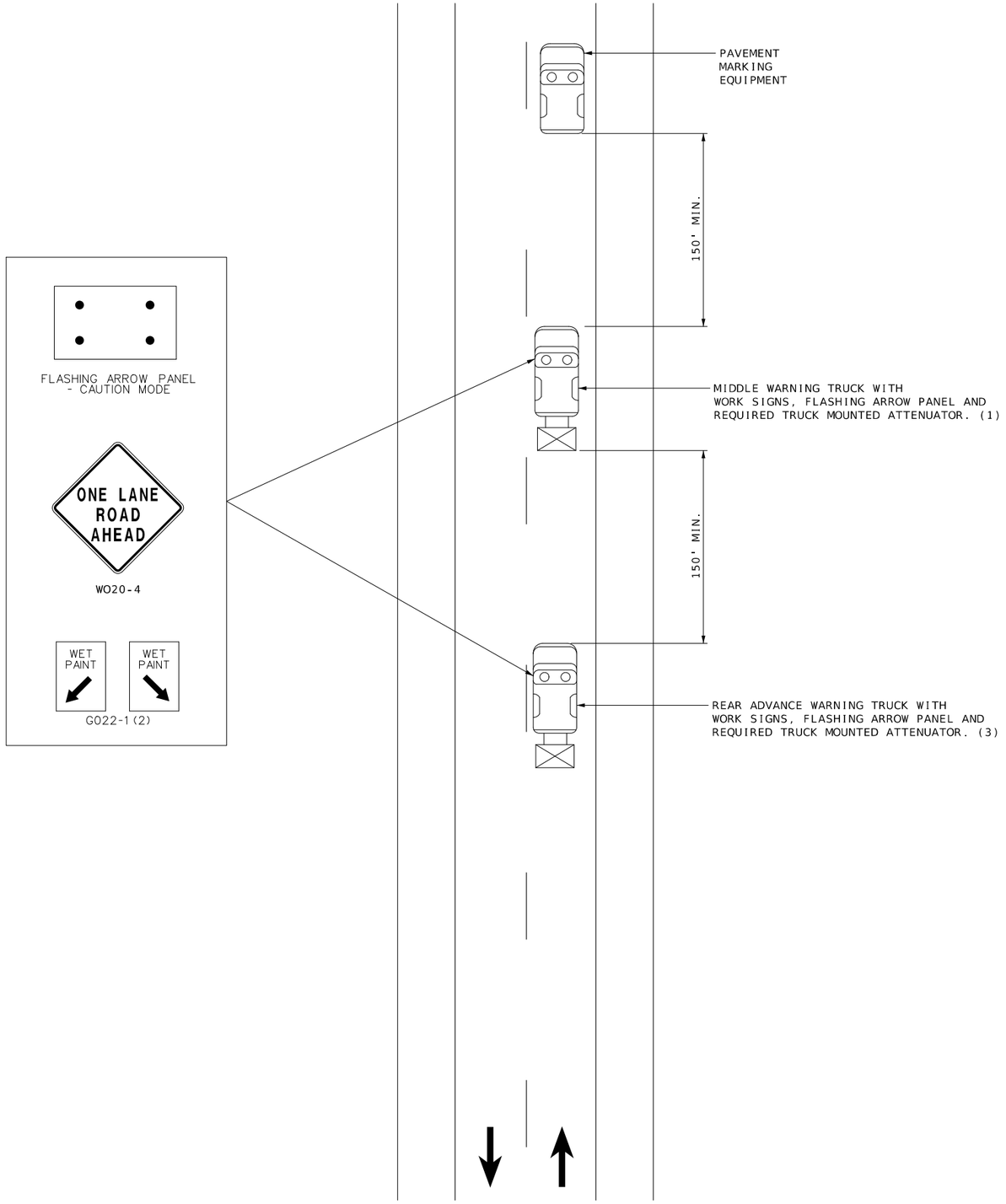
PROJECT NO.

BRIDGE NO.

DESCRIPTION	DATE

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

NOT TO SCALE



STRIPING ON TWO-LANE HIGHWAY

NOTES:

UPON APPROVAL OF THE ENGINEER, THE CONTRACTOR MAY PROVIDE ADDITIONAL PROTECTIVE TRUCKS EQUIPPED WITH PROPER WARNING DEVICES.

PROTECTIVE TRUCKS AND WORK VEHICLES SHALL DISPLAY HIGH-INTENSITY ROTATING, FLASHING, OSCILLATING, OR STROBE LIGHTS.

VEHICLE HAZARD WARNING SIGNALS SHALL NOT BE USED INSTEAD OF THE VEHICLE'S HIGH-INTENSITY ROTATING, FLASHING, OSCILLATING, OR STROBE LIGHTS.

VEHICLE-MOUNTED SIGNS SHALL BE MOUNTED IN A MANNER SUCH THAT THEY ARE NOT OBSCURED BY EQUIPMENT OR SUPPLIES. SIGN LEGENDS ON VEHICLE-MOUNTED SIGNS SHALL BE COVERED OR TURNED FROM VIEW WHEN WORK IS NOT IN PROGRESS.

FLASHING ARROW PANELS SHALL BE INCIDENTAL TO TRUCK MOUNTED ATTENUATORS, WHEREVER USED. NO ADDITIONAL PAYMENT WILL BE MADE.

(1) TRUCK IS OPTIONAL ON TWO-LANE UNDIVIDED HIGHWAYS IF SIGNING AND ARROW BOARD ARE MOUNTED ON THE PAVEMENT MARKING EQUIPMENT.

(2) WET PAINT SIGNS ARE INSTALLED TO INDICATE THE SIDE IN WHICH THE PAVEMENT MARKING MATERIAL IS BEING APPLIED. AT THE CONTRACTOR'S OPTION, A FRONT FACING WET PAINT SIGN MAY BE INSTALLED ON THE LEFT SIDE OF THE PAVEMENT MARKING EQUIPMENT.

(3) REAR WARNING TRUCK IS POSITIONED AT THE NO TRACK POINT OF THE PAVEMENT MARKING MATERIAL, OR VERTICAL OR HORIZONTAL CURVES THAT RESTRICT SIGHT DISTANCE, OR SPACING SHOWN, WHICHEVER IS GREATER.

TEMPORARY TRAFFIC CONTROL
STRIPING ON TWO-LANE HIGHWAY
SHEET 7 OF 8

STATE OF MISSOURI
MARIA K. PETERS
NUMBER PE-2000162118
PROFESSIONAL ENGINEER
Maria Peters
08/06/2024 12:58:34 PM
MARIA K PETERS - CIVIL
MO-PE-2000162118

DATE PREPARED
8/6/2024

ROUTE	STATE
50	MO
DISTRICT	SHEET NO.
CD	16

COUNTY
OSAGE/GASCONADE

JOB NO.
JCD0044

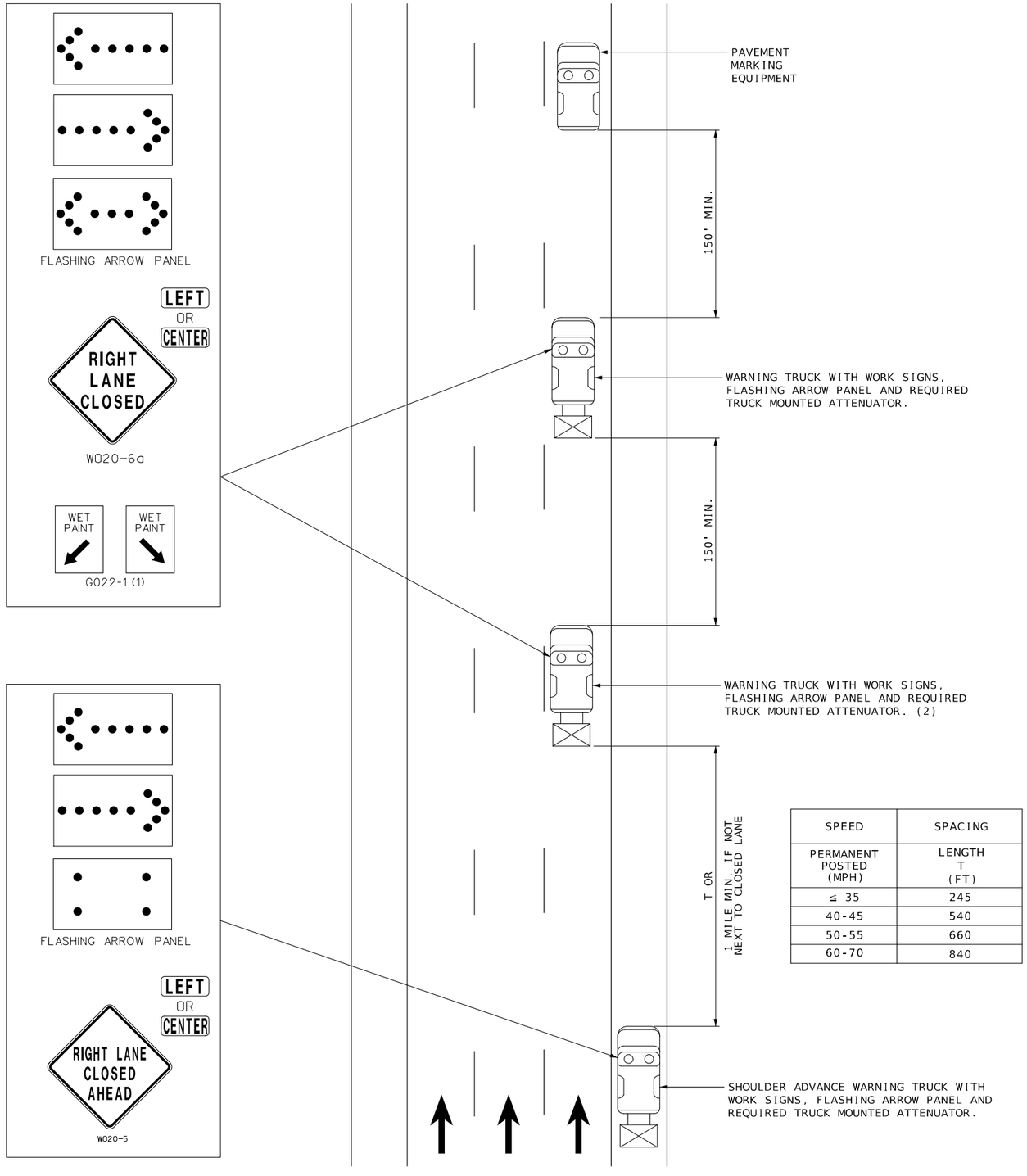
CONTRACT ID.

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)



SPEED	SPACING
PERMANENT POSTED (MPH)	LENGTH T (FT)
≤ 35	245
40-45	540
50-55	660
60-70	840

STRIPING ON MULTI-LANE HIGHWAY

NOT TO SCALE

NOTES:

UPON APPROVAL OF THE ENGINEER, THE CONTRACTOR MAY PROVIDE ADDITIONAL PROTECTIVE TRUCKS EQUIPPED WITH PROPER WARNING DEVICES.

PROTECTIVE TRUCKS AND WORK VEHICLES SHALL DISPLAY HIGH-INTENSITY ROTATING, FLASHING, OSCILLATING, OR STROBE LIGHTS.

VEHICLE HAZARD WARNING SIGNALS SHALL NOT BE USED INSTEAD OF THE VEHICLE'S HIGH-INTENSITY ROTATING, FLASHING, OSCILLATING, OR STROBE LIGHTS.

VEHICLE-MOUNTED SIGNS SHALL BE MOUNTED IN A MANNER SUCH THAT THEY ARE NOT OBSCURED BY EQUIPMENT OR SUPPLIES. SIGN LEGENDS ON VEHICLE-MOUNTED SIGNS SHALL BE COVERED OR TURNED FROM VIEW WHEN WORK IS NOT IN PROGRESS.

FLASHING ARROW PANELS SHALL BE INCIDENTAL TO TRUCK MOUNTED ATTENUATORS, WHEREVER USED. NO ADDITIONAL PAYMENT WILL BE MADE.

FLASHING ARROW PANELS SHALL, AS A MINIMUM, BE TYPE B, WITH A SIZE OF 60 X 30 INCHES.

A FLASHING ARROW BOARD SHALL BE USED WHEN A FREEWAY LANE IS CLOSED. WHEN MORE THAN ONE LANE CLOSED, A SEPARATE FLASHING ARROW BOARD SHALL BE USED FOR EACH CLOSED LANE.

(1) WET PAINT SIGNS ARE INSTALLED TO INDICATE THE SIDE IN WHICH THE PAVEMENT MARKING MATERIAL IS BEING APPLIED. AT THE CONTRACTOR'S OPTION, A FRONT FACING WET PAINT SIGN MAY BE INSTALLED ON THE LEFT SIDE OF THE PAVEMENT MARKING EQUIPMENT.

(2) WARNING TRUCK IS POSITIONED AT THE NO TRACK POINT OF THE PAVEMENT MARKING MATERIAL, OR SPACING SHOWN, WHICH EVER IS GREATER.

TEMPORARY TRAFFIC CONTROL
STRIPING ON MULTI-LANE HIGHWAY
SHEET 8 OF 8

STATE OF MISSOURI
MARIA K. PETERS
NUMBER PE-2000162118
PROFESSIONAL ENGINEER
Maria Peters
08/06/2024 12:59:00 PM
MARIA K. PETERS - CIVIL
MO-PE-2000162118

DATE PREPARED
8/6/2024

ROUTE	STATE
50	MO
DISTRICT	SHEET NO.
CD	17

COUNTY
OSAGE / GASCONADE

JOB NO.
JCD0044

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

PLANS FOR PROPOSED STATE HIGHWAY

GASCONADE COUNTY

KEY MAP
LOCATION OF GASCONADE COUNTY

DESIGN DESIGNATION

A.A.D.T. - 2025 = 2,913 (MO 19 N/O MO 28)
3,811 (MO 19 S/O MO 28)

A.A.D.T. - 2045 = 3,219 (MO 19 N/O MO 28)
4,210 (MO 19 S/O MO 28)

PEAK HOUR = 11.59% (MO 19 N/O MO 28)
9.35% (MO 19 S/O MO 28)

T = 10.68% (MO 19 N/O MO 28)
15.89% (MO 19 S/O MO 28)

V = 55 M.P.H.

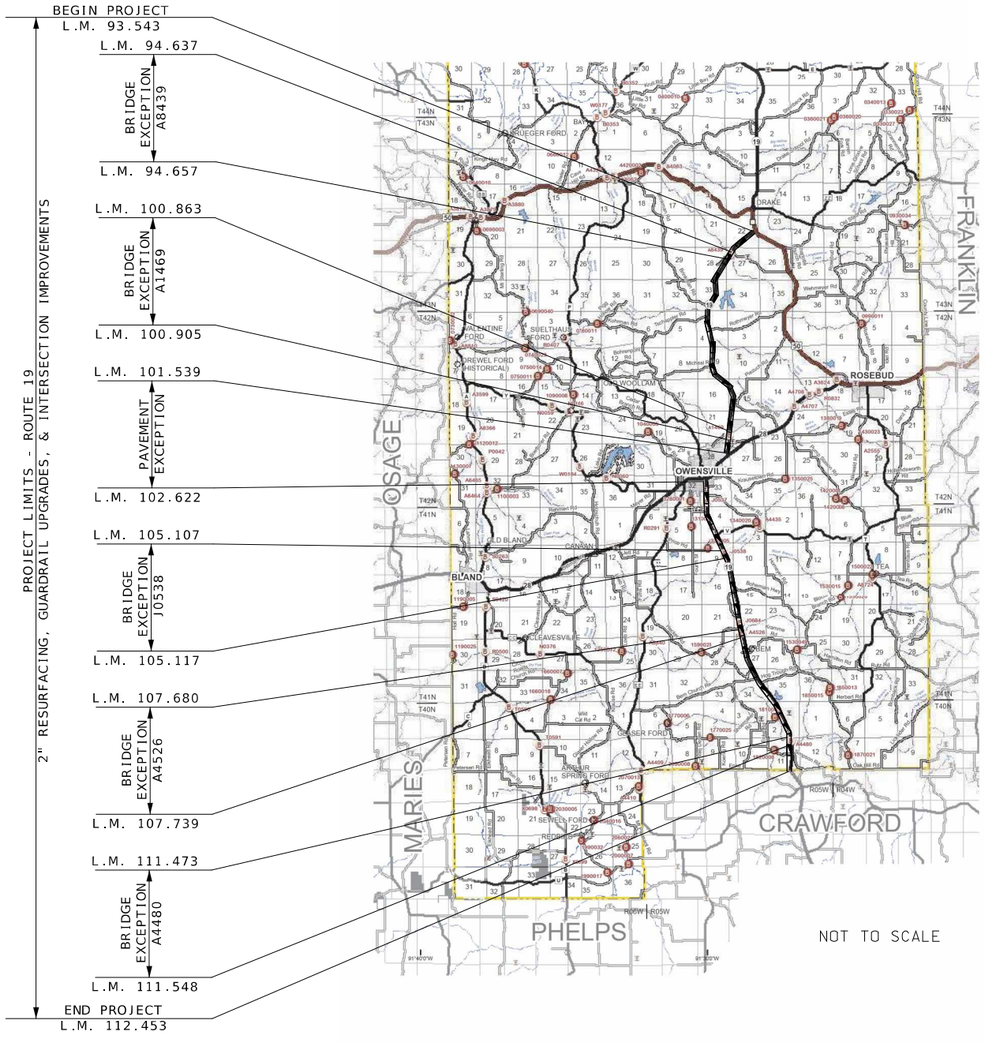
FUNCTIONAL CLASSIFICATION - MINOR ARTERIAL

NO NEW RIGHT OF WAY REQUIRED

CONVENTIONAL SYMBOLS
(USED IN PLANS)

	EXISTING	NEW
BUILDINGS AND STRUCTURES		
GUARD RAIL		
GUARD CABLE		
CONCRETE RIGHT-OF-WAY MARKER		
STEEL RIGHT-OF-WAY MARKER		
LOCATION SURVEY MARKER		
UTILITIES		
FIBER OPTICS	-FO-	-FO-
OVERHEAD CABLE TV	-OTV-	-OTV-
UNDERGROUND CABLE TV	-UTV-	-UTV-
OVERHEAD TELEPHONE	-OT-	-OT-
UNDERGROUND TELEPHONE	-UT-	-UT-
OVERHEAD POWER	-OE-	-OE-
UNDERGROUND POWER	-UE-	-UE-
SANITARY SEWER	-S-	-S-
STORM SEWER	-SS-	-SS-
GAS	-G-	-G-
WATER	-W-	-W-
MANHOLE	SAN	
FIRE HYDRANT	HYD	
WATER VALVE	WV	
WATER METER	WM	
DROP INLET		
DITCH BLOCK		
GROUND MOUNTED SIGN	SIGN	
LIGHT POLE		
H-FRAME POWER POLE		
TELEPHONE PEDESTAL	PED	
FENCE		
CHAIN LINK	-V-	
WOVEN WIRE	-X-	
GATE POST		
BENCHMARK	BM	

NOTE: DASHED OR OPEN SYMBOLS INDICATE EXISTING FEATURES



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.

INDEX OF SHEETS

DESCRIPTION	SHEET NUMBER
TITLE SHEET	1
TYPICAL SECTIONS (TS) (2 SHEETS)	2
QUANTITIES (QU) (4 SHEETS)	3
SPECIAL SHEETS (SS)	4-10
TRAFFIC CONTROL SHEETS (TC)	11-15

LENGTH OF PROJECT

BEGINNING OF PROJECT	L.M. 93.543
END OF PROJECT	L.M. 112.453
APPARENT LENGTH	99,844.80 FEET
EQUATIONS AND EXCEPTIONS:	
BRIDGE A8439 EXCEPTION	LM 94.637 - LM 94.657 105.60 FEET
BRIDGE A1469 EXCEPTION	LM 100.863-LM 100.905 221.76 FEET
PAVEMENT EXCEPTION	LM 101.539-LM 102.622 5,718.24 FEET
BRIDGE J0538 EXCEPTION	LM 105.107-LM 105.117 52.80 FEET
BRIDGE A4526 EXCEPTION	LM 107.680-LM 107.739 311.52 FEET
BRIDGE A4480 EXCEPTION	LM 111.473-LM 111.548 396.00 FEET
TOTAL CORRECTIONS	6,805.92 FEET
NET LENGTH OF PROJECT	93,038.88 FEET
STATE LENGTH	17.621 MILES
FOR INFORMATION ONLY ESTIMATED DISTURBED ACRES	0.1 ACRES

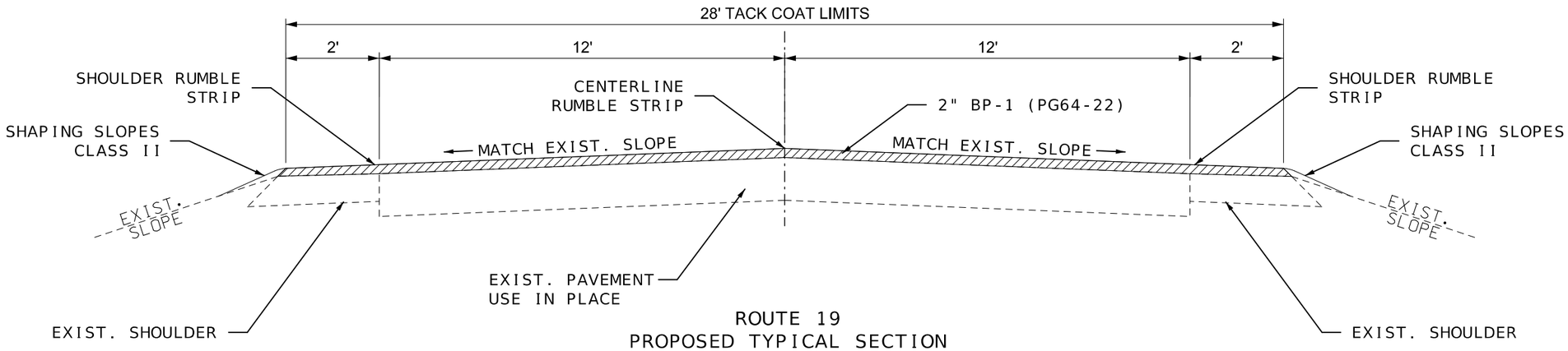
STATE OF MISSOURI
GREGORY G. LEARY
NUMBER PE-026654
PROFESSIONAL ENGINEER
09/23/2024 2:42:01 PM
GREGORY G. LEARY - CIVIL
MO-PE-026654

DATE PREPARED 9/23/2024
ROUTE 19 | STATE MO
DISTRICT CD | SHEET NO. 1
COUNTY GASCONADE
JOB NO. JCD0045
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)

℄
ROUTE 19



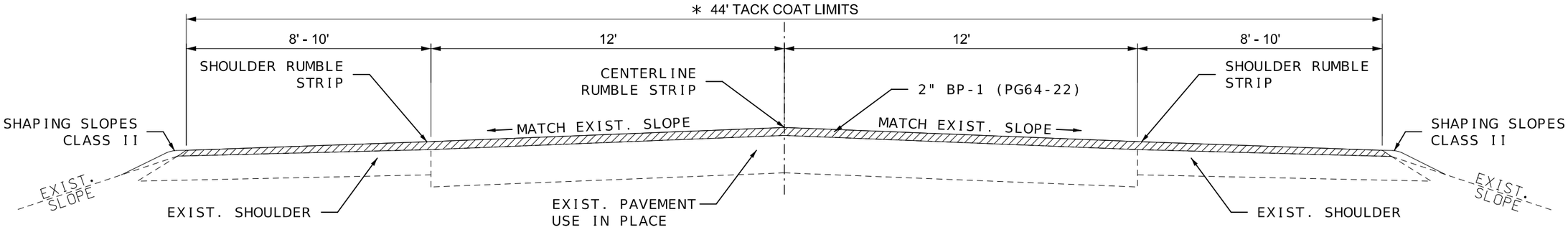
ROUTE 19
PROPOSED TYPICAL SECTION

LOG MILE 93.543 TO LOG MILE 94.637
LOG MILE 94.657 TO LOG MILE 100.638
LOG MILE 100.841 TO LOG MILE 100.863
LOG MILE 100.905 TO LOG MILE 100.925

BRIDGE A8439 EXCEPTION
LOG MILE 94.637 TO LOG MILE 94.657

BRIDGE A1469 EXCEPTION
LOG MILE 100.863 TO LOG MILE 100.905

℄
ROUTE 19



ROUTE 19
PROPOSED TYPICAL SECTION

LOG MILE 100.638 TO LOG MILE 100.841
LOG MILE 100.925 TO LOG MILE 101.539

* PAVEMENT WIDTH VARIES 44' TO 51'
LOG MILE 101.425 TO LOG MILE 101.539

PAVEMENT EXCEPTION
LOG MILE 101.539 TO LOG MILE 102.622

ESTIMATE FACTORS:
BP-1 (PG64-22) = 1.948 TONS/CY
TACK COAT (EXIST ASPH) = 0.08 GAL/SY

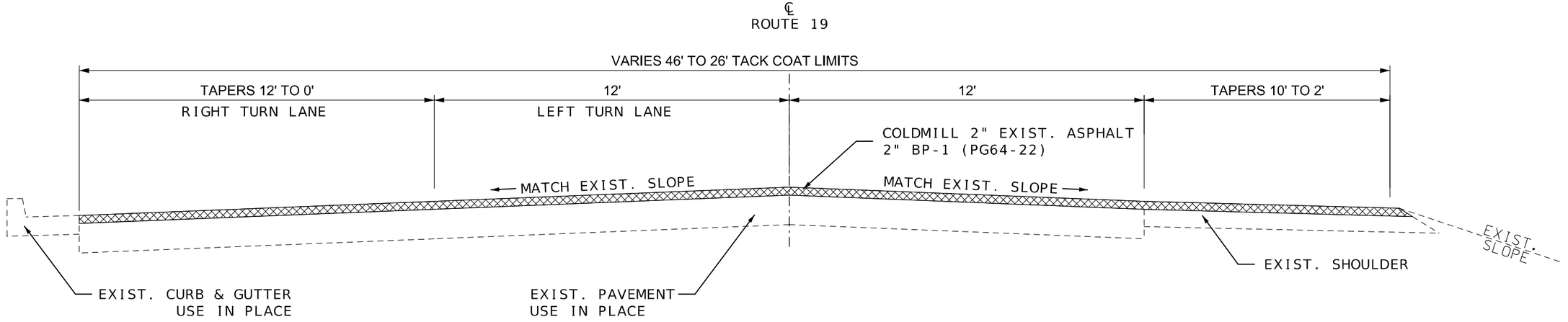
TYPICAL SECTION
SHEET 1 OF 2

STATE OF MISSOURI
MARIA K. PETERS
NUMBER PE-2000162118
PROFESSIONAL ENGINEER
Maria Peters
08/06/2024 1:05:14 PM
MARIA K. PETERS - CIVIL
MO-PE-2000162118

DATE PREPARED: 8/6/2024
ROUTE: 19 | STATE: MO
DISTRICT: CD | SHEET NO.: 2
COUNTY: GASCONADE
JOB NO.: JCD0045
CONTRACT ID.:
PROJECT NO.:
BRIDGE NO.:

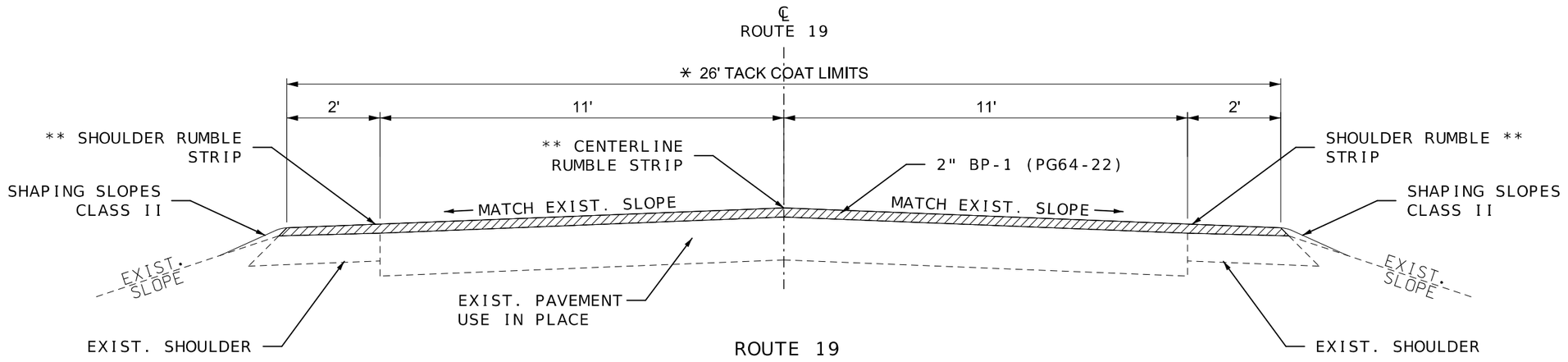
DESCRIPTION	DATE

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



ROUTE 19
PROPOSED TYPICAL SECTION

LOG MILE 102.622 TO LOG MILE 102.680



ROUTE 19
PROPOSED TYPICAL SECTION

LOG MILE 102.680 TO LOG MILE 105.107
LOG MILE 105.117 TO LOG MILE 107.603
*LOG MILE 107.603 TO LOG MILE 107.680 (40' TRAVELWAY LANES & SHOULDERS)
*LOG MILE 107.739 TO LOG MILE 107.817 (40' TRAVELWAY LANES & SHOULDERS)
LOG MILE 107.817 TO LOG MILE 111.445
*LOG MILE 111.445 TO LOG MILE 111.473 (40' TRAVELWAY LANES & SHOULDERS)
*LOG MILE 111.548 TO LOG MILE 111.575 (40' TRAVELWAY LANES & SHOULDERS)
LOG MILE 111.575 TO LOG MILE 112.453

BRIDGE J0538 EXCEPTION
LOG MILE 105.107 TO LOG MILE 105.117

BRIDGE A4526 EXCEPTION
LOG MILE 107.680 TO LOG MILE 107.739

BRIDGE A4480 EXCEPTION
LOG MILE 111.473 TO LOG MILE 111.548

** RUMBLE STRIPS BEGIN AT CITY LIMITS
LOG MILE 103.020

ESTIMATE FACTORS:
BP-1 (PG64-22) = 1.948 TONS/CY
TACK COAT (EXIST ASPH) = 0.08 GAL/SY
TACK COAT (COLDMILLED) = 0.10 GAL/SY

TYPICAL SECTION
SHEET 2 OF 2

STATE OF MISSOURI
MARIA K. PETERS
NUMBER PE-2000162118
PROFESSIONAL ENGINEER
Maria Peters
08/06/2024 1:07:26 PM
MARIA K. PETERS - CIVIL
MO-PE-2000162118

DATE PREPARED
8/6/2024

ROUTE	STATE
19	MO
DISTRICT	SHEET NO.
CD	2

COUNTY
GASCONADE

JOB NO.
JCD0045

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)

REMOVAL OF IMPROVEMENTS

LOG MILE	LOG MILE	LOCATION	LENGTH FT.	REMOVAL ITEM	REMARKS
105.080	105.105	ROUTE 19	130	GUARDRAIL	BRIDGE J0538
105.080	105.105	ROUTE 19		3 OBJECT MARKERS	BRIDGE J0538
105.080	105.105	ROUTE 19	130	GUARDRAIL	BRIDGE J0538
105.080	105.105	ROUTE 19		3 OBJECT MARKERS	BRIDGE J0538
105.119	105.144	ROUTE 19	130	GUARDRAIL	BRIDGE J0538
105.119	105.144	ROUTE 19		3 OBJECT MARKERS	BRIDGE J0538
105.119	105.144	ROUTE 19	130	GUARDRAIL	BRIDGE J0538
105.119	105.144	ROUTE 19		3 OBJECT MARKERS	BRIDGE J0538
107.656	107.680	ROUTE 19	125	GUARDRAIL	BRIDGE A4526
107.656	107.680	ROUTE 19	125	GUARDRAIL	BRIDGE A4526
107.739	107.763	ROUTE 19	125	GUARDRAIL	BRIDGE A4526
107.739	107.763	ROUTE 19	125	GUARDRAIL	BRIDGE A4526
111.449	111.473	ROUTE 19	125	GUARDRAIL	BRIDGE A4480
111.449	111.473	ROUTE 19	125	GUARDRAIL	BRIDGE A4480
111.548	111.572	ROUTE 19	125	GUARDRAIL	BRIDGE A4480
111.548	111.572	ROUTE 19	125	GUARDRAIL	BRIDGE A4480
		TOTAL	1520	GUARDRAIL	
		USE		1 LUMP SUM	

SHAPING SLOPES CLASS II

LOG MILE	LOG MILE	LOCATION	LENGTH FT.	SHAPING SLOPES CLASS II 100 FT	REMARKS
93.543	94.637	ROUTE 19 - LT & RT	5776.32	115.53	
94.637	94.657	ROUTE 19 - LT & RT	105.6		BRIDGE A8439 EXCEPTION
94.657	100.863	ROUTE 19 - LT & RT	32767.68	655.35	
100.863	100.905	ROUTE 19 - LT & RT	221.76		BRIDGE A1469 EXCEPTION
100.905	101.539	ROUTE 19 - LT & RT	3347.52	66.95	
101.539	102.622	ROUTE 19 - LT & RT	5718.24		ROUTE 28 EXCEPTION
102.622	102.680	ROUTE 19 - LT & RT	306.24		ROUTE 28 TO E JEFFERSON AVE - 2" MILL & FILL
102.680	105.107	ROUTE 19 - LT & RT	12814.56	256.29	
105.107	105.117	ROUTE 19 - LT & RT	52.8		BRIDGE J0538 EXCEPTION
105.117	107.680	ROUTE 19 - LT & RT	13532.64	270.65	
107.680	107.739	ROUTE 19 - LT & RT	311.52		BRIDGE A4526 EXCEPTION
107.739	111.473	ROUTE 19 - LT & RT	19715.52	394.31	
111.473	111.548	ROUTE 19 - LT & RT	396		BRIDGE A4480 EXCEPTION
111.548	112.453	ROUTE 19 - LT & RT	4778.4	95.57	
93.543	112.453	ROUTE 19 - LT & RT		-85.22	STATE, COUNTY, & PRIVATE ENTRANCE EXCEPTIONS
			TOTAL	1769.43	
			USE	1769	

2" BITUMINOUS PAVEMENT BP-1 (PG64-22)

LOG MILE	LOG MILE	LOCATION	LENGTH FT.	WIDTH FT.	AREA SQ. FT.	BP-1 (PG64-22) TONS	TACK COAT GAL	REMARKS
93.543	93.561	ROUTE 19	95.04	VAR.	5695.2	68.48	50.62	BEGIN PROJECT AT US 50
93.561	94.637	ROUTE 19	5681.28	28	159075.84	1912.84	1414.01	
94.637	94.657	ROUTE 19	105.6					BRIDGE A8439 EXCEPTION
94.657	100.638	ROUTE 19	31579.68	28	884231.04	10632.63	7859.83	
100.638	100.841	ROUTE 19	1071.84	42	45017.28	541.32	400.15	
100.841	100.863	ROUTE 19	116.16	28	3252.48	39.11	28.91	
100.863	100.905	ROUTE 19	221.76					BRIDGE A1469 EXCEPTION
100.905	100.925	ROUTE 19	105.6	28	2956.8	35.55	26.28	
100.925	101.425	ROUTE 19	2640	44	116160	1396.79	1032.53	
101.425	101.482	ROUTE 19	300.96	47.5	14295.6	171.90	127.07	TRANSITION 44' TO 51' WIDTH
101.482	101.539	ROUTE 19	300.96	51	15348.96	184.57	136.44	MATCH EXISTING BITUMINOUS JOINT
101.539	102.622	ROUTE 19	5718.24					ROUTE 28 EXCEPTION
102.622	102.680	ROUTE 19	306.24	VAR.	13191.3	158.62	146.57	ROUTE 28 TO E JEFFERSON AVE - 2" MILL & FILL
102.680	105.107	ROUTE 19	12814.56	26	333178.56	4006.38	2961.59	
105.107	105.117	ROUTE 19	52.8					BRIDGE J0538 EXCEPTION
105.117	107.603	ROUTE 19	13126.08	26	341278.08	4103.77	3033.58	
107.603	107.680	ROUTE 19	406.56	40	16262.4	195.55	144.55	
107.680	107.739	ROUTE 19	311.52					BRIDGE A4526 EXCEPTION
107.739	107.817	ROUTE 19	411.84	40	16473.6	198.09	146.43	
107.817	111.445	ROUTE 19	19155.84	26	498051.84	5988.93	4427.13	
111.445	111.473	ROUTE 19	147.84	40	5913.6	71.11	52.57	
111.473	111.548	ROUTE 19	396					BRIDGE A4480 EXCEPTION
111.548	111.575	ROUTE 19	142.56	40	5702.4	68.57	50.69	
111.575	112.453	ROUTE 19	4635.84	26	120531.84	1449.36	1071.39	END PROJECT AT CRAWFORD COUNTY LINE
			3982	4	15928	191.53	176.98	PAVED CITY STREETS, COUNTY ROADS, & PRIVATE ENTRANCES
						3926.89		12.5% FOR IRREGULARITIES
								ESTIMATE FACTORS:
								BP-1 (PG64-22) = 1.948 TON/CY
		TOTAL				35341.99	23287.32	TACK COAT (EXIST ASPH) = 0.08 GAL/SY
		USE				35342.0	23287	TACK COAT (COLDMILLED ASPH) = 0.10 GAL/SY

MOBILIZATION

TOTAL	1 LUMP SUM

SUMMARY OF QUANTITIES
SHEET 1 OF 4

STATE OF MISSOURI
MARIA K. PETERS
NUMBER PE-2000162118
PROFESSIONAL ENGINEER
Maria Peters
08/06/2024 1:45:15 PM
MARIA K. PETERS - CIVIL
MO-PE-2000162118

DATE PREPARED
8/6/2024

ROUTE	STATE
19	MO

DISTRICT	SHEET NO.
CD	3

COUNTY
GASCONADE

JOB NO.
JCD0045

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)

COLDMILLING BIT PAVEMENT FOR REMOVAL OR SURFACING (3 IN THICK OR LESS)

LOG MILE	LOG MILE	LOCATION	LENGTH FT.	WIDTH FT.	AREA SQ. FT.	BITUMINOUS COLDMILLING SY	REMARKS
102.622	102.680	ROUTE 19	308	VAR.	13191.3	1465.7	ROUTE 28 TO E JEFFERSON AVE - 2" COLDMILLING
					TOTAL	1465.7	
					USE	1466	

MODIFIED COLDMILLING (DEPTH TRANSITIONS)

LOG MILE	LOG MILE	LOCATION	LENGTH FT.	WIDTH FT.	AREA SQ. FT.	MODIFIED COLDMILLING SY	REMARKS
93.543	93.547	ROUTE 19	20	VAR.	2234.7	248.30	US 54 & ROUTE 19 INTERSECTION - BEGINNING OF PROJECT
93.543	93.561	ROUTE 19	VAR.	VAR.	420.39	46.71	BITUMINOUS APRON - SEE SPECIAL SHEET 2
94.618	94.637	ROUTE 19	VAR.	28	2943.99	327.11	BRIDGE A8439 - SECOND CREEK - SPECIAL SHEET 3
94.657	94.676	ROUTE 19	VAR.	28	2943.99	327.11	BRIDGE A8439 - SECOND CREEK - SPECIAL SHEET 3
100.844	100.863	ROUTE 19	100	28	2799.99	311.11	BRIDGE A1469 - SPECIAL SHEET 3
100.905	100.924	ROUTE 19	100	28	2799.99	311.11	BRIDGE A1469 - SPECIAL SHEET 3
101.520	101.539	ROUTE 19	100	51	5100	566.67	BEGIN ROUTE 28 EXCEPTION - SPECIAL SHEET 4
102.680	102.699	ROUTE 19	100	VAR.	2956.5	328.50	MODIFY MILL AT E JEFFERSON AVE - SPECIAL SHEET 4
105.088	105.107	ROUTE 19	100	VAR.	2277.99	253.11	BRIDGE J0538 - RED OAK CREEK - SPECIAL SHEET 5
105.117	105.136	ROUTE 19	100	VAR.	2277.99	253.11	BRIDGE J0538 - RED OAK CREEK - SPECIAL SHEET 5
107.661	107.680	ROUTE 19	100	40	4000	444.44	BRIDGE A4526 - DRY FORK - SPECIAL SHEET 5
107.739	107.758	ROUTE 19	100	40	4000	444.44	BRIDGE A4526 - DRY FORK - SPECIAL SHEET 5
111.454	111.473	ROUTE 19	100	40	4000	444.44	BRIDGE A4480 - BOURBEUSE RIVER - SPECIAL SHEET 6
111.548	111.567	ROUTE 19	100	40	4000	444.44	BRIDGE A4480 - BOURBEUSE RIVER - SPECIAL SHEET 6
112.434	112.453	ROUTE 19	100	26	2600	288.89	END OF PROJECT
93.543	112.453	ROUTE 19	VAR.	4	15928	1769.78	PAVED STATE, COUNTY, AND PRIVATE ENTRANCES
					TOTAL	6809.3	
					USE	6809	

BITUMINOUS RUMBLE STRIPS

LOG MILE	LOG MILE	LOCATION	LENGTH FT.	BIT. SHOULDER RUMBLE STRIP STA.	BIT. CENTERLINE RUMBLE STRIP STA.	REMARKS
93.556	94.637	ROUTE 19 - LT & RT	5707.68	114.15	57.08	
94.637	94.657	ROUTE 19 - LT & RT	105.6			BRIDGE A8439 EXCEPTION
94.657	100.648	ROUTE 19 - LT & RT	31632.48	632.65	316.32	END RUMBLES AT SHOULDER WIDENING
100.648	100.905	ROUTE 19 - LT & RT	1356.96			BRIDGE A1469 EXCEPTION
100.905	101.539	ROUTE 19 - LT & RT	3347.52			
101.539	102.622	ROUTE 19 - LT & RT	5718.24			ROUTE 28 EXCEPTION
102.622	103.020	ROUTE 19 - LT & RT	2101.44			OWENSVILLE CITY LIMITS EXCEPTION
103.020	105.107	ROUTE 19 - LT & RT	11019.36	220.39	110.19	
105.107	105.117	ROUTE 19 - LT & RT	52.8		0.53	BRIDGE J0538 EXCEPTION
105.117	107.680	ROUTE 19 - LT & RT	13532.64	270.65	135.33	
107.680	107.739	ROUTE 19 - LT & RT	311.52			BRIDGE A4526 EXCEPTION
107.739	111.473	ROUTE 19 - LT & RT	19715.52	394.31	197.16	
111.473	111.548	ROUTE 19 - LT & RT	396			BRIDGE A4480 EXCEPTION
111.548	112.453	ROUTE 19 - LT & RT	4778.4	95.57	47.78	
93.543	112.453	ROUTE 19 - LT & RT		-346.00		STATE, COUNTY, & PRIVATE ENTRANCE EXCEPTIONS
			TOTAL	1381.72	864.39	
			USE	1382	864	

SUMMARY OF QUANTITIES
SHEET 2 OF 4

STATE OF MISSOURI
MARIA K. PETERS
NUMBER PE-2000162118
PROFESSIONAL ENGINEER
Maria Peters
08/06/2024 1:45:44 PM
MARIA K. PETERS - CIVIL
MO-PE-2000162118

DATE PREPARED
8/6/2024

ROUTE	STATE
19	MO

DISTRICT	SHEET NO.
CD	3

COUNTY
GASCONADE

JOB NO.
JCD0045

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)

MGS GUARDRAIL

LOG MILE	LOG MILE	LOCATION	LENGTH FT.	MGS BRIDGE APPROACH TRANS. (REG/NO CURB) EA	MGS GUARDRAIL LF	TYPE A CRASHWORTHY END TERMINAL EA	ASYMETRICAL TRANSITION SECTION 7.5 FT POSTS EA	SHAPING SLOPES CLASS III 100 FT	REMARKS
105.080	105.105	ROUTE 19	131.5		75.0	1	1	1.6	BRIDGE J0538
105.080	105.105	ROUTE 19	131.5		75.0	1	1	1.6	BRIDGE J0538
105.119	105.144	ROUTE 19	131.5		75.0	1	1	1.6	BRIDGE J0538
105.119	105.144	ROUTE 19	131.5		75.0	1	1	1.6	BRIDGE J0538
107.654	107.678	ROUTE 19	125	1	37.5	1		1.5	BRIDGE A4526
107.654	107.678	ROUTE 19	125	1	37.5	1		1.5	BRIDGE A4526
107.741	107.765	ROUTE 19	125	1	37.5	1		1.5	BRIDGE A4526
107.741	107.765	ROUTE 19	125	1	37.5	1		1.5	BRIDGE A4526
111.446	111.470	ROUTE 19	125	1	37.5	1		1.5	BRIDGE A4480
111.446	111.470	ROUTE 19	125	1	37.5	1		1.5	BRIDGE A4480
111.551	111.575	ROUTE 19	125	1	37.5	1		1.5	BRIDGE A4480
111.551	111.575	ROUTE 19	125	1	37.5	1		1.5	BRIDGE A4480
			TOTAL	8	600	12	4	18	
			USE	8	600	12	4	18	

GRAVEL (A), CRUSHED STONE (B)

LOG MILE FROM	LOG MILE TO	LOCATION	GRAVEL (A) OR CRUSHED STONE (B) TONS	REMARKS
93.543	112.453	ROUTE 19	985.00	ROUTE 19 GRAVEL ENTRANCES WITHIN OVERLAY LIMITS
		TOTAL	985.0	

TRANSVERSE RUMBLE STRIP

LOG MILE	LOG MILE	LOCATION	LENGTH FT.	WIDTH FT.	TRANSVERSE RUMBLE SY	REMARKS
93.608	93.613	ROUTE 19	24	10	26.67	SEE SPECIAL SHEET 7 OF 7 FOR DETAILS
93.660	93.665	ROUTE 19	24	10	26.67	SEE SPECIAL SHEET 7 OF 7 FOR DETAILS
				TOTAL	53.3	
				USE	53	

WATERBORNE PAVEMENT MARKING PAINT, TYPE P BEADS

LOG MILE	LOG MILE	LOCATION	LENGTH	4" YELLOW LF	4" WHITE LF	REMARKS
93.543	101.424	ROUTE 19	41611.68	83223.36	83223	
101.424	101.508	ROUTE 19	443.52	1774.08	887	TWO DOUBLE YELLOWS
101.508	101.539	ROUTE 19	163.68	327.36	491	LEFT TURN BAY
101.539	102.622	ROUTE 19				OWENSVILLE EXCEPTION LIMIT
102.622	102.637	ROUTE 19	79.2	158.4	238	LEFT TURN BAY
102.637	112.453	ROUTE 19	51828.48	103656.96	103657	
			TOTAL	189140	188496	
			USE	189140	188496	

NOTE: ALL PAVEMENT MARKINGS TO MATCH EXISTING. LOCATE BEFORE MILLING OR RESURFACING

THERMOPLASTIC PAVEMENT MARKING

LOG MILE	LOG MILE	LOCATION	24" SOLID WHITE LF	24" SOLID YELLOW LF	LEFT/RIGHT TURN ARROW EA	REMARKS
93.546		ROUTE 19	20			STOP BAR
101.464	101.495	ROUTE 19		34		MEDIAN HATCHING
101.513		ROUTE 19			1	LEFT TURN ARROW
102.626		ROUTE 19			2	1 LEFT & 1 RIGHT ARROW
		TOTAL	20	34	3	
		USE	20	34	3	

SUMMARY OF QUANTITIES
SHEET 3 OF 4

STATE OF MISSOURI
MARIA K. PETERS
NUMBER PE-2000162118
PROFESSIONAL ENGINEER
Maria Peters
08/06/2024 1:46:09 PM
MARIA K. PETERS - CIVIL
MO-PE-2000162118

DATE PREPARED
8/6/2024

ROUTE	STATE
19	MO
DISTRICT	SHEET NO.
CD	3

COUNTY
GASCONADE

JOB NO.
JCD0045

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)

EFFECTIVE: 04-01-2023

SIGN	SIZE IN.	AREA SQ.FT.	QTY EACH	TOTAL AREA SQ.FT.	QTY RELOC EACH	TOTAL RELOC SQ.FT.	SIGN NUM.	DESCRIPTION
WARNING SIGNS								
WO1-1L	48X48	16.00						TURN (SYMBOL LEFT ARROW)
WO1-1R	48X48	16.00						TURN (SYMBOL RIGHT ARROW)
WO1-2L	48X48	16.00						CURVE (SYMBOL LEFT ARROW)
WO1-2R	48X48	16.00						CURVE (SYMBOL RIGHT ARROW)
WO1-3L	48X48	16.00						REVERSE TURN (SYMBOL LEFT ARROW)
WO1-3R	48X48	16.00						REVERSE TURN (SYMBOL RIGHT ARROW)
WO1-4L	48X48	16.00						REVERSE CURVE (SYMBOL LEFT ARROW)
WO1-4R	48X48	16.00						REVERSE CURVE (SYMBOL RIGHT ARROW)
WO1-4bL	48X48	16.00						DOUBLE ARROW REVERSE CURVE (SYMBOL LT ARROWS)
WO1-4bR	48X48	16.00						DOUBLE ARROW REVERSE CURVE (SYMBOL RT ARROWS)
WO1-4cL	48X48	16.00						TRIPLE ARROW REVERSE CURVE (SYMBOL LT ARROWS)
WO1-4cR	48X48	16.00						TRIPLE ARROW REVERSE CURVE (SYMBOL RT ARROWS)
WO1-6	60X30	12.50						HORIZONTAL ARROW (SYMBOL)
WO1-6a	72X36	18.00						HORIZ. ARROW (SYMBOL ON PERMANENT BARRICADE)
WO1-7	60X30	12.50						DOUBLE HEAD HORIZONTAL ARROW (SYMBOL)
WO1-7a	72X36	18.00						DOUBLE HEAD HORIZ. ARROW (SYMBOL ON PERM. BARR.)
WO1-8	18X24	3.00						CHEVRON (SYMBOL)
WO1-8a	30X36	7.50						CHEVRON (SYMBOL FOR DIVIDED HIGHWAYS)
WO3-1	48X48	16.00						STOP AHEAD (SYMBOL)
WO3-2	48X48	16.00						YIELD AHEAD (SYMBOL)
WO3-3	48X48	16.00						SIGNAL AHEAD (SYMBOL)
WO3-4	48X48	16.00	12	192			11	BE PREPARED TO STOP
WO3-5	48X48	16.00						SPEED LIMIT AHEAD
WO4-1L	48X48	16.00						MERGE (SYMBOL FROM LEFT)
WO4-1R	48X48	16.00						MERGE (SYMBOL FROM RIGHT)
WO4-1aL	48X48	16.00						MERGE (ARROW SYMBOL)
WO4-1aR	48X48	16.00						MERGE (ARROW SYMBOL)
WO5-1	48X48	16.00						ROAD/BRIDGE/RAMP NARROWS
WO5-3	48X48	16.00						ONE LANE BRIDGE
WO5-5	48X48	16.00						NARROW LANES
WO6-1	48X48	16.00						DIVIDED HIGHWAY (SYMBOL)
WO6-2	48X48	16.00						DIVIDED HIGHWAY END (SYMBOL)
WO6-3	48X48	16.00						TWO WAY TRAFFIC (SYMBOL)
WO7-3a	30X24	5.00						NEXT XX MILES (PLAQUE)
WO8-1	48X48	16.00						BUMP
WO8-2	48X48	16.00						DIP
WO8-3	48X48	16.00						PAVEMENT ENDS
WO8-4	48X48	16.00						SOFT SHOULDER
WO8-5	48X48	16.00						SLIPPERY WHEN WET (SYMBOL)
WO8-6	48X48	16.00						TRUCK CROSSING (WITH FLAGS)
WO8-6c	48X48	16.00						TRUCK ENTRANCE
WO8-7	36X36	9.00						LOOSE GRAVEL
WO8-7a	36X36	9.00						FRESH OIL/LOOSE GRAVEL
WO8-9	48X48	16.00						LOW SHOULDER
WO8-11	48X48	16.00	36	576			36	UNEVEN LANES
WO8-12	48X48	16.00	18	288			35	NO CENTER LINE
WO8-15	48X48	16.00						GROOVED PAVEMENT
WO8-15P	30X24	5.00						MOTORCYCLE (PLAQUE)
WO8-17	48X48	16.00						SHOULDER DROP-OFF (SYMBOL)
WO8-17P	30X24	5.00						SHOULDER DROP-OFF (PLAQUE)
W10-1	42RND.	9.62						RAILROAD CROSSING
WO12-1	24X24	4.00						DOUBLE DOWN ARROW (SYMBOL)
WO12-2	48X48	16.00						LOW CLEARANCE (SYMBOL)
WO12-2X	24X18	3.00						LOW CLEARANCE (PLAQUE)
WO12-2a	84X24	14.00						OVERHEAD LOW CLEARANCE (FEET AND INCHES)
WO12-4	120X60	50.00						LOW CLEARANCE XX FT XX IN XX MILES AHEAD
WO12-5	120X60	50.00						WIDTH RESTRICTION XX FT XX IN XX MILES AHEAD
WO13-1	30X30	6.25						ADVISORY SPEED (PLAQUE)
WO16-2	30X24	5.00						XXX FEET (PLAQUE)
WO16-3	30X24	5.00						X MILE (PLAQUE)
WO20-1	48X48	16.00	16	256			20	ROAD WORK AHEAD
WO20-2	48X48	16.00						DETOUR AHEAD
WO20-3	48X48	16.00						ROAD CLOSED AHEAD
WO20-4	48X48	16.00	6	96			7	ONE LANE ROAD AHEAD
WO20-5	48X48	16.00						RIGHT/CENTER/LEFT LANE CLOSED AHEAD
WO20-5a	48X48	16.00						2 RIGHT/CENTER/LEFT LANES CLOSED AHEAD
WO20-6a	48X48	16.00						RIGHT/CENTER/LEFT LANE CLOSED
WO20-7a	48X48	16.00	16	256			8	FLAGGER (SYMBOL, WITH FLAGS)
WO21-2	36X36	9.00						FRESH OIL
WO21-5	48X48	16.00						SHOULDER WORK AHEAD
WO22-1	48X48	16.00						BLASTING ZONE AHEAD
WO22-2	42X36	10.50						TURN OFF 2-WAY RADIO AND PHONE
WO22-3	42X36	10.50						END BLASTING ZONE
GO22-1	21X15	2.19	4	8.76				WET PAINT (ARROW PIVOTS)

SIGN	SIZE IN.	AREA SQ.FT.	QTY EACH	TOTAL SQ.FT.	QTY RELOC EACH	TOTAL RELOC SQ.FT.	SIGN NUM.	DESCRIPTION
GUIDE SIGNS								
E05-1	36X48	12.00						GORE EXIT
E05-2	48X36	12.00						EXIT OPEN
E05-2a	48X36	12.00						EXIT CLOSED
GO20-1	60X24	10.00	2	20			1	ROAD WORK NEXT 19 MILES
GO20-2	48X24	8.00	2	16			26	END ROAD WORK
GO20-4	36X18	4.50	1	4.5			53	PILOT CAR FOLLOW ME
GO20-4a	42X30	8.75	1	8.75			58	PILOT CAR IN USE WAIT & FOLLOW
GO20-4a	18X12	1.50	12	18			58	PILOT CAR IN USE WAIT & FOLLOW
GO20-5aP	36X24	6.00						WORK ZONE (PLAQUE)
MO4-8a	24X18	3.00						END DETOUR
MO4-9L	48X36	12.00						DETOUR (LEFT ARROW)
MO4-9R	48X36	12.00						DETOUR (RIGHT ARROW)
MO4-9P	48X12	4.00						STREET NAME (PLAQUE)
MO4-10L	48X18	6.00						DETOUR (ARROW LEFT)
MO4-10R	48X18	6.00						DETOUR (ARROW RIGHT)
REGULATORY SIGNS								
R1-1	48X48	13.25						STOP
R1-2	48TRI.	6.93						YIELD
R1-2a	36X36	9.00						TO ONCOMING TRAFFIC (PLAQUE)
R1-3P	30X12	2.50						ALL WAY (PLAQUE)
R2-1	36X48	12.00						SPEED LIMIT XX
R3-1	48X48	16.00						NO RIGHT TURN (SYMBOL)
R3-2	48X48	16.00						NO LEFT TURN (SYMBOL)
R3-3	36X36	9.00						NO TURNS
R3-4	48X48	16.00						NO U-TURN (SYMBOL)
R3-7L	30X30	6.25						LEFT LANE MUST TURN LEFT
R3-7R	30X30	6.25						RIGHT LANE MUST TURN RIGHT
R4-1	36X48	12.00						DO NOT PASS
R4-2	36X48	12.00						PASS WITH CARE
R4-8a	36X48	12.00						KEEP LEFT (HORIZONTAL ARROW)
R4-7a	36X48	12.00						KEEP RIGHT (HORIZONTAL ARROW)
R5-1	30X30	6.25						DO NOT ENTER
R5-1a	36X24	6.00						WRONG WAY
R6-1L	54X18	6.75						ONE WAY ARROW (LEFT)
R6-1R	54X18	6.75						ONE WAY ARROW (RIGHT)
R6-2L	24X30	5.00						ONE WAY (LEFT)
R6-2R	24X30	5.00						ONE WAY (RIGHT)
R9-9	24X12	2.00						SIDEWALK CLOSED
R9-11L	24X18	3.00						SIDEWALK CLOSED AHEAD, (ARROW LEFT) CROSS HERE
R9-11R	24X18	3.00						SIDEWALK CLOSED AHEAD, (ARROW RIGHT) CROSS HERE
R10-6	24X36	6.00						STOP HERE ON RED (45^ ARROW)
R11-2	48X30	10.00						ROAD CLOSED
R11-3a	60X30	12.50						ROAD CLOSED XX MILES AHEAD LOCAL TRAFFIC ONLY
R11-4	60X30	12.50						ROAD CLOSED TO THRU TRAFFIC
CONST-3A	60X48	20.00						FINE SIGN
CONST-3X	56X12	4.67						SPEEDING/PASSING (PLATE)
MISCELLANEOUS SIGNS								
CONST-5	48X36	12.00	2	24			60	POINT OF PRESENCE
CONST-5	96X48	32.00						POINT OF PRESENCE
CONST-8	48X36	12.00	2	24			59	WORK ZONE NO PHONE ZONE

CONSTRUCTION SIGNS (FOR INFO ONLY)	TOTAL 1789	FOR INFORMATIONAL PURPOSES ONLY
616-10.10 RELOCATED SIGNS		TOTAL 0

ITEM NUMBER	TOTAL QTY	DESCRIPTION
6122008		IMPACT ATTENUATOR 40 MPH (SAND BARRELS)
6122009		IMPACT ATTENUATOR 45 MPH (SAND BARRELS)
6122010		IMPACT ATTENUATOR 50 MPH (SAND BARRELS)
6122012		IMPACT ATTENUATOR 55 MPH (SAND BARRELS)
6122014		IMPACT ATTENUATOR 60 MPH (SAND BARRELS)
6122017		IMPACT ATTENUATOR 65 MPH (SAND BARRELS)
6122019		IMPACT ATTENUATOR 70 MPH (SAND BARRELS)
6122020		REPLACEMENT SAND BARREL
6122030		IMPACT ATTENUATOR (RELOCATION)
6123000A		TRUCK OR TRAILER MOUNTED ATTENUATOR (TMA)
6161008		ADVANCED WARNING RAIL SYSTEM
6161012		BUOYS (BOATS KEEP OUT)
6161013		BUOYS (NO WAKE)
6161014		SPECIAL SIGN ASSEMBLY (BOATS KEEP OUT)
6161025	100	CHANNELIZER (TRIM LINE)
6161030		TYPE III MOVEABLE BARRICADE
6161033		DIRECTION INDICATOR BARRICADE
6161040		FLASHING ARROW PANEL
6161047		TYPE III OBJECT MARKER
6161055		SEQUENTIAL FLASHING WARNING LIGHT
6161070		TUBULAR MARKER
6161095		RADAR SPEED ADVISORY SYSTEM
6161096		CHANGEABLE MESSAGE SIGN, COMMISSION FURNISHED/RETAINED
6161098A		CHANGEABLE MESSAGE SIGN W/O COMM. INTERFACE - CONTRACTOR FURNISHED/RETAINED
6161099	2 **	CHANGEABLE MESSAGE SIGN WITH COMM. INTERFACE - CONTRACTOR FURNISHED/RETAINED
6162000A		WORK ZONE TRAFFIC SIGNAL SYSTEM
6162002		TEMPORARY LONG-TERM RUMBLE STRIPS
6173600D		TEMPORARY TRAFFIC BARRIER CONTRACTOR FURNISHED/RETAINED
6173602B		TEMPORARY TRAFFIC BARRIER CONTRACTOR FURNISHED/COMMISSION RETAINED
6174000A		TEMP. TRAFFIC BARRIER HEIGHT TRANSITION
6175010A		RELOCATING TEMPORARY TRAFFIC BARRIER
6176000B		TEMPORARY TRAFFIC BARRIER COMMISSION FURNISHED/RETAINED
6177000B		TEMP. TRAFFIC BARRIER HEIGHT TRANSITION COMMISSION FURNISHED/RETAINED
6208064A		TEMPORARY RAISED PAVEMENT MARKER
9029400		TEMPORARY TRAFFIC SIGNALS
9029401		TEMPORARY TRAFFIC SIGNALS AND LIGHTING

616-99.01
TEMPORARY TRAFFIC CONTROL
PAY TOTAL = 1 LUMP SUM

** NOT INCLUDED IN TEMPORARY TRAFFIC CONTROL - 1 LUMP SUM QUANTITY

NOTE: ALL TRAFFIC CONTROL ARE INCLUDED IN PAY ITEM 616-99.01. LUMP SUM TEMPORARY TRAFFIC CONTROL UNLESS NOTED OTHERWISE IN THE PLANS. THESE QUANTITIES ARE ONLY AN ESTIMATE & ARE SUBJECT TO CHANGE BASED UPON FIELD CONDITIONS.

NO DIRECT PAY WILL BE MADE FOR RELOCATION OF CONSTRUCTION SIGNS OR DEVICES.

SUMMARY OF QUANTITIES
SHEET 4 OF 4

STATE OF MISSOURI
MARIA K. PETERS
NUMBER PE-2000162118
PROFESSIONAL ENGINEER
Maria Peters
08/06/2024 1:46:42 PM
MARIA K. PETERS - CIVIL
MO-PE-2000162118

DATE PREPARED: 8/6/2024

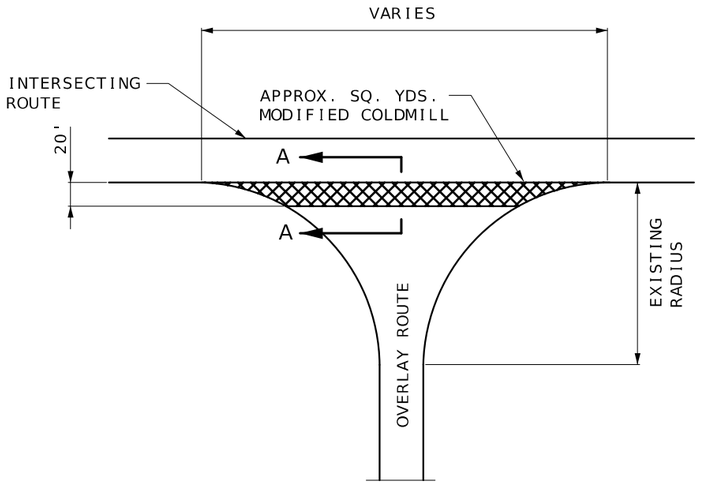
ROUTE	STATE
19	MO
DISTRICT	SHEET NO.
CD	3

COUNTY: GASCONADE
JOB NO.: JCD0045
CONTRACT ID.:
PROJECT NO.:
BRIDGE NO.:

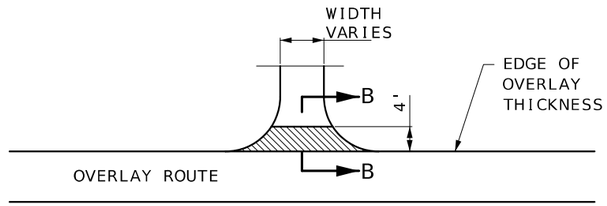
DESCRIPTION	DATE

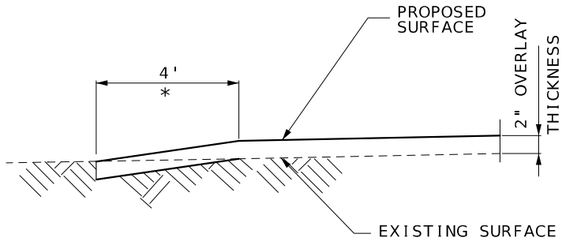
MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)



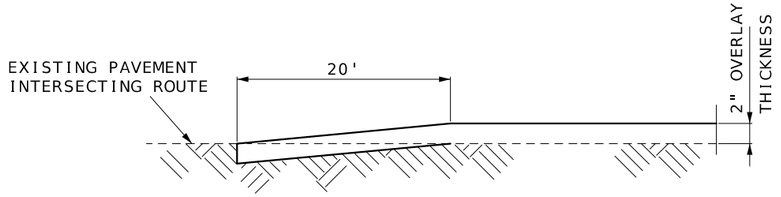
BEGINNING OF PROJECT





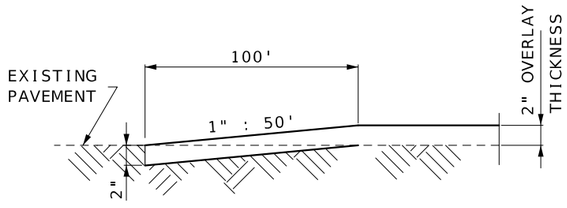
SECTION B-B

TYPICAL PAVED ENTRANCE - MOD. MILLING
(PRIVATE, CITY STREET, OR COUNTY ROAD)
* TAPER AT 1:1 FOR FIELD ENTRANCE



SECTION A-A

TYPICAL STATE ROUTE JUNCTION
(MOD. COLDMILLED TRANSITION)



TRAVELWAY DEPTH TRANSITIONS
BRIDGE/PAVEMENT EXCEPTIONS
AND END OF PROJECT

STATE OF MISSOURI
MARIA K. PETERS
NUMBER PE-2000162118
PROFESSIONAL ENGINEER
Maria Peters
08/06/2024 1:47:05 PM
MARIA K. PETERS - CIVIL
MO-PE-2000162118

DATE PREPARED
8/6/2024

ROUTE	STATE
19	MO
DISTRICT	SHEET NO.
CD	4

COUNTY
GASCONADE

JOB NO.
JCD0045

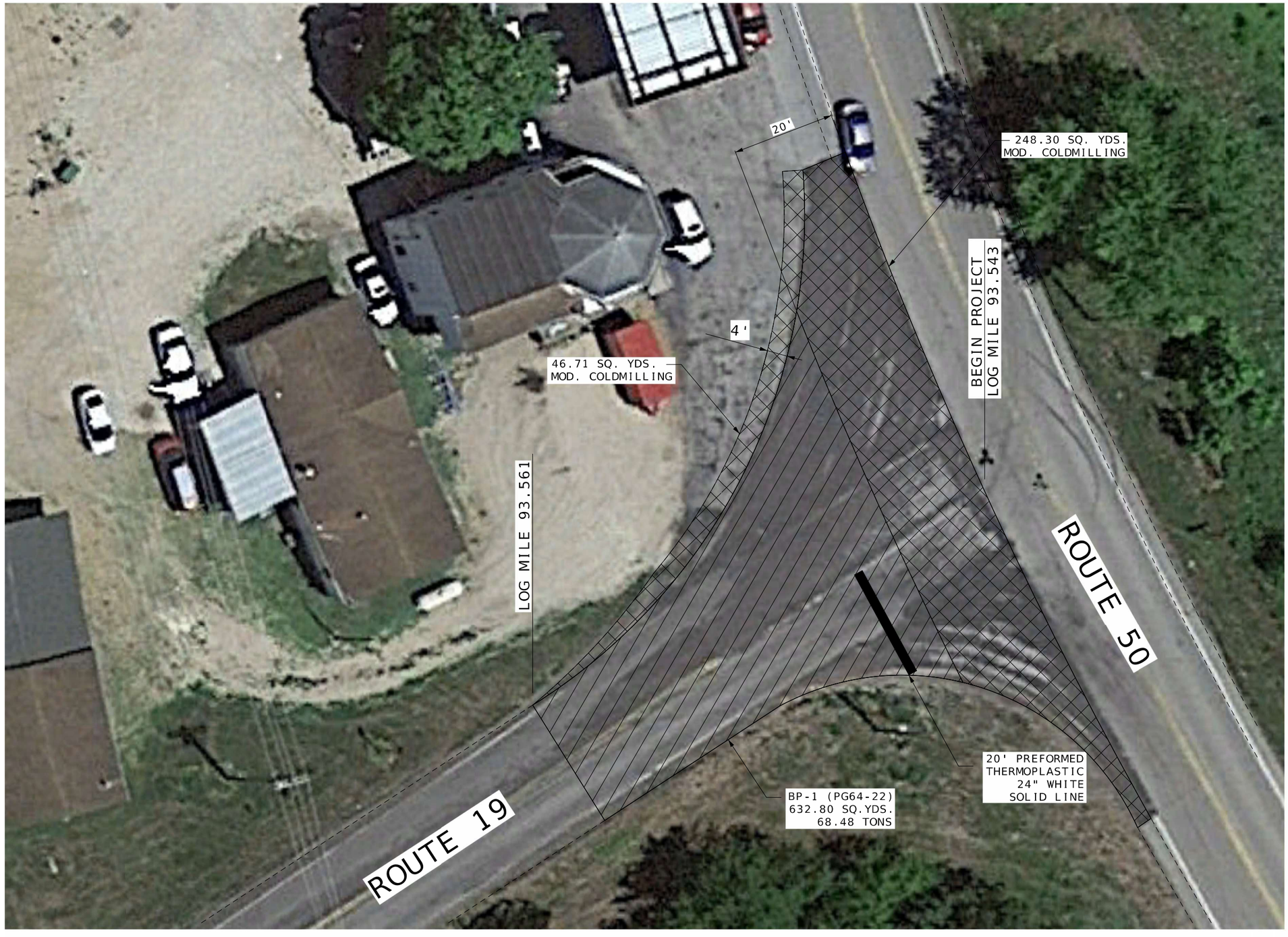
CONTRACT ID.

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)



2" RESURFACING

0" TO 2" MODIFIED COLDMILLING AND 2" RESURFACING

NOT TO SCALE

BEGINNING OF PROJECT
US 50 AND ROUTE 19 INTERSECTION
LOG MILE 93.543 TO LOG MILE 93.561

SPECIAL SHEET
BEGINNING OF PROJECT
2 OF 7

STATE OF MISSOURI
MARIA K. PETERS
NUMBER PE-2000162118
PROFESSIONAL ENGINEER

Maria Peters
08/06/2024 1:47:32 PM
MARIA K.PETERS - CIVIL
MO-PE-2000162118

DATE PREPARED	
8/6/2024	
ROUTE	STATE
19	MO
DISTRICT	SHEET NO.
CD	5
COUNTY	
GASCONADE	
JOB NO.	
JCD0045	
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)

0" TO 2" MODIFIED COLDMILLING AND 2" RESURFACING

NOT TO SCALE

ROUTE 19 - BRIDGE A8439
LOG MILE 94.637 TO LOG MILE 94.657

0" TO 2" MODIFIED COLDMILLING AND 2" RESURFACING

NOT TO SCALE

ROUTE 19 - BRIDGE A1469
LOG MILE 100.863 TO LOG MILE 100.905

SPECIAL SHEET
BRIDGE A8439 & A1469
3 OF 7

STATE OF MISSOURI
MARIA K. PETERS
NUMBER PE-2000162118
PROFESSIONAL ENGINEER
Maria Peters
05-06-2024 1:46:05 PM
MARIA K. PETERS - CIVIL
MO-PE-2000162118

DATE PREPARED
8/6/2024

ROUTE	STATE
19	MO
DISTRICT	SHEET NO.
CD	6

COUNTY
GASCONADE

JOB NO.
JCD0045

CONTRACT ID.

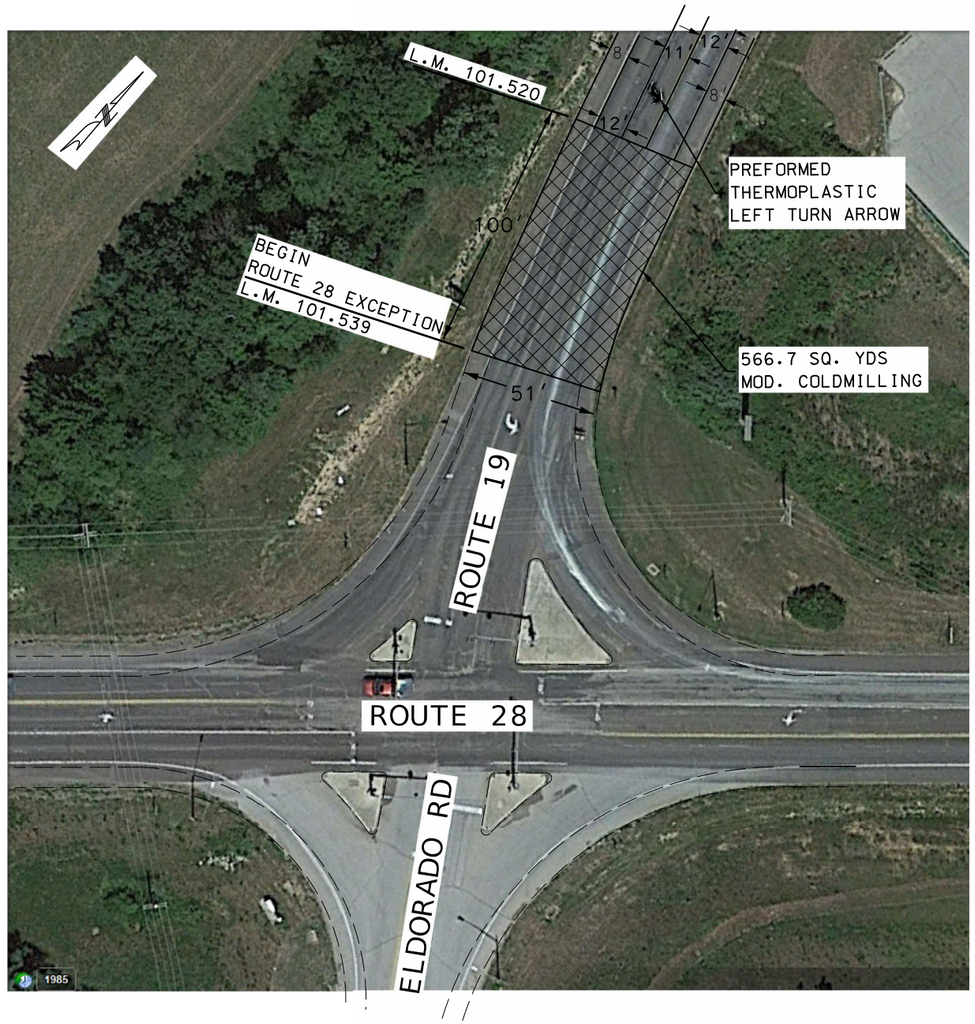
PROJECT NO.

BRIDGE NO.

DESCRIPTION	DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

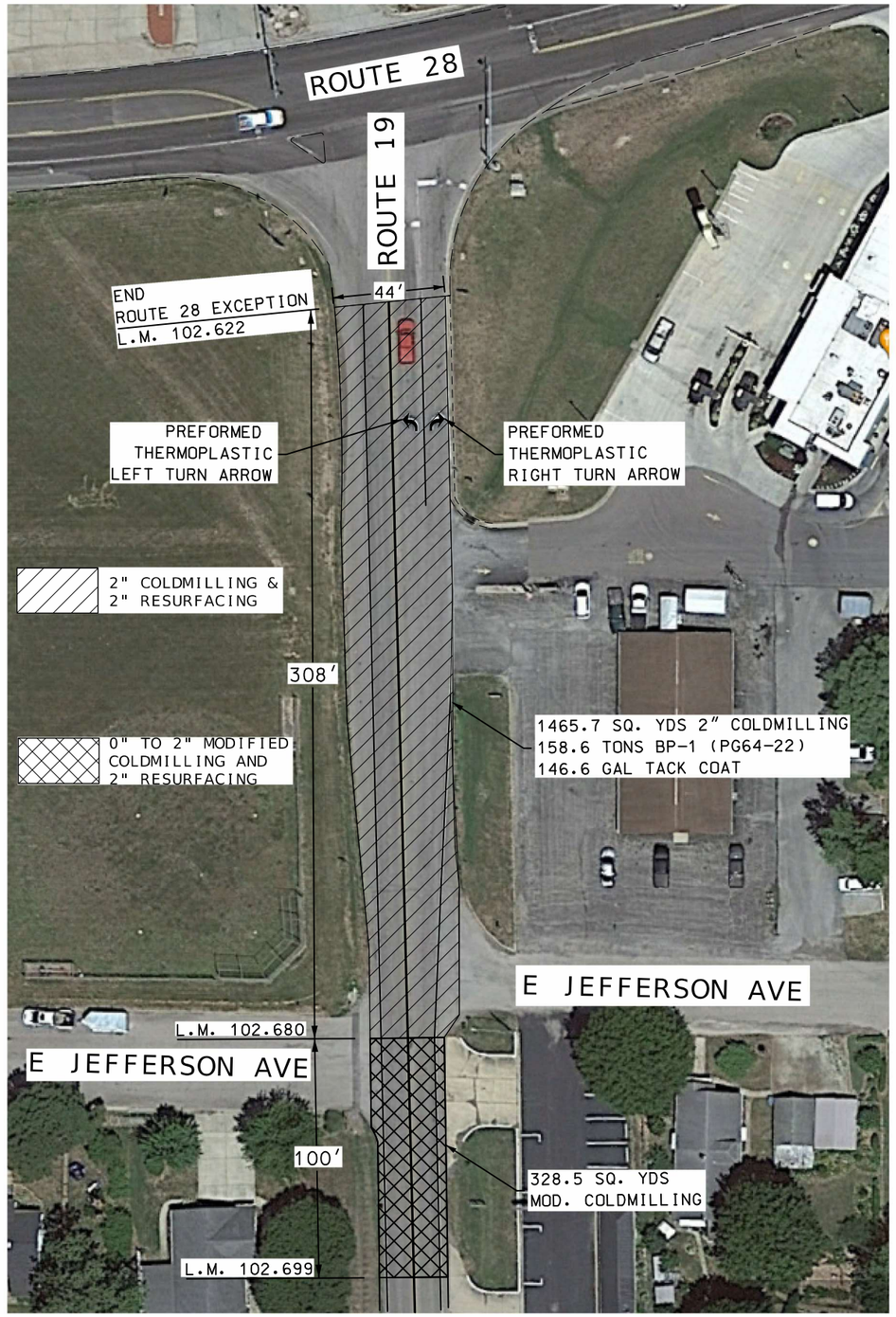
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)



NOT TO SCALE

ROUTE 19 & ROUTE 28 EXCEPTION LIMIT
BEGIN - LOG MILE 101.539

0" TO 2" MODIFIED
COLDMILLING AND
2" RESURFACING



NOT TO SCALE

ROUTE 19 & ROUTE 28 EXCEPTION LIMIT
END - LOG MILE 102.622

SPECIAL SHEET
ROUTE 19/28 INTERSECTIONS
4 OF 7

STATE OF MISSOURI
MARIA K. PETERS
NUMBER PE-2009162118
PROFESSIONAL ENGINEER
Maria Peters
08/06/2024 1:48:35 PM
MARIA K. PETERS - CIVIL
MO-PE-2009162118

DATE PREPARED
8/6/2024

ROUTE	STATE
19	MO
DISTRICT	SHEET NO.
CD	7

COUNTY
GASCONADE

JOB NO.
JCD0045

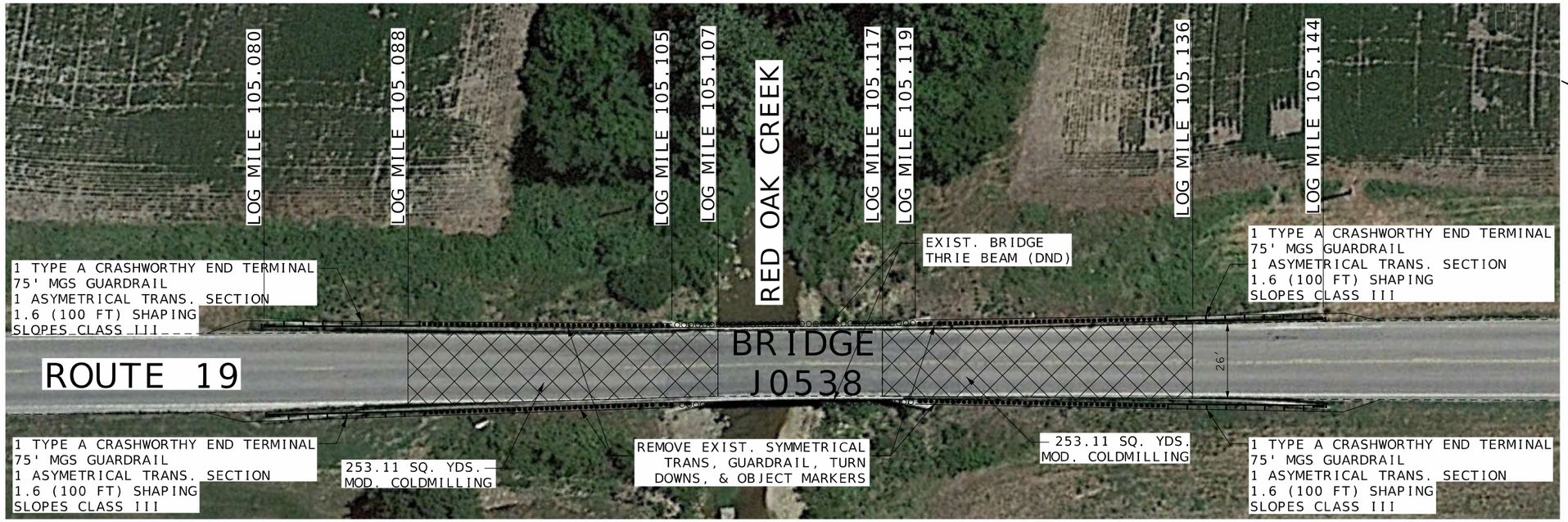
CONTRACT ID.

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)



NOT TO SCALE

0" TO 2" MODIFIED
COLDMILLING AND
2" RESURFACING

ROUTE 19 - BRIDGE J0538
LOG MILE 105.107 TO LOG MILE 105.117

NOT TO SCALE

0" TO 2" MODIFIED
COLDMILLING AND
2" RESURFACING

ROUTE 19 - BRIDGE A4526
LOG MILE 107.680 TO LOG MILE 107.739

SPECIAL SHEET
BRIDGE J0538 & A4526
5 OF 7

STATE OF MISSOURI
MARIA K. PETERS
NUMBER PE-2000162118
PROFESSIONAL ENGINEER
Maria Peters
08/06/2024 1:49:37 PM
MARIA K. PETERS - CIVIL
MO-PE-2000162118

DATE PREPARED
8/6/2024

ROUTE	STATE
19	MO
DISTRICT	SHEET NO.
CD	8

COUNTY
GASCONADE

JOB NO.
JCD0045

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)

NOT TO SCALE

0" TO 2" MODIFIED COLDMILLING AND 2" RESURFACING

ROUTE 19 - BRIDGE A4480
LOG MILE 111.473 TO LOG MILE 111.548

SPECIAL SHEET
BR A4480
6 OF 7

STATE OF MISSOURI
MARIA K. PETERS
NUMBER PE-2000162118
PROFESSIONAL ENGINEER
Maria Peters
08/06/2024 1:50:44 PM
MARIA K. PETERS - CIVIL
MO-PE-2000162118

DATE PREPARED
8/6/2024

ROUTE	STATE
19	MO
DISTRICT	SHEET NO.
CD	9

COUNTY
GASCONADE

JOB NO.
JCD0045

CONTRACT ID.

PROJECT NO.

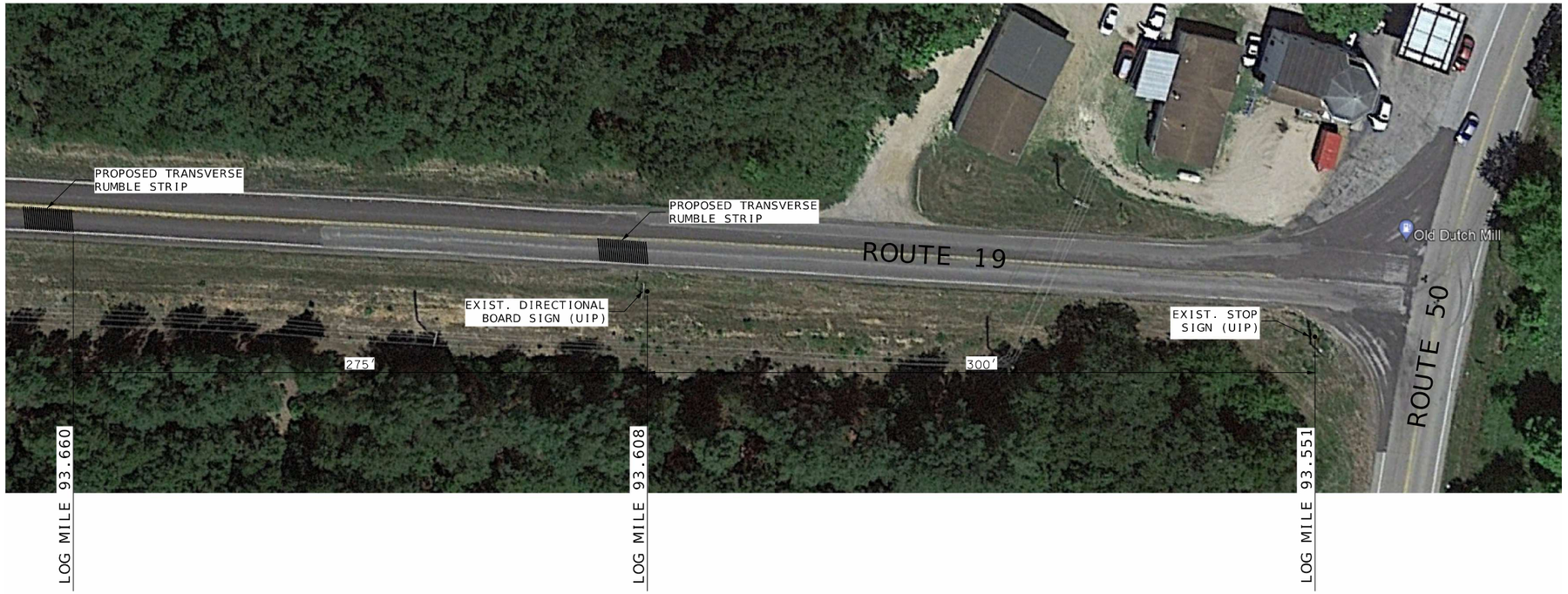
BRIDGE NO.

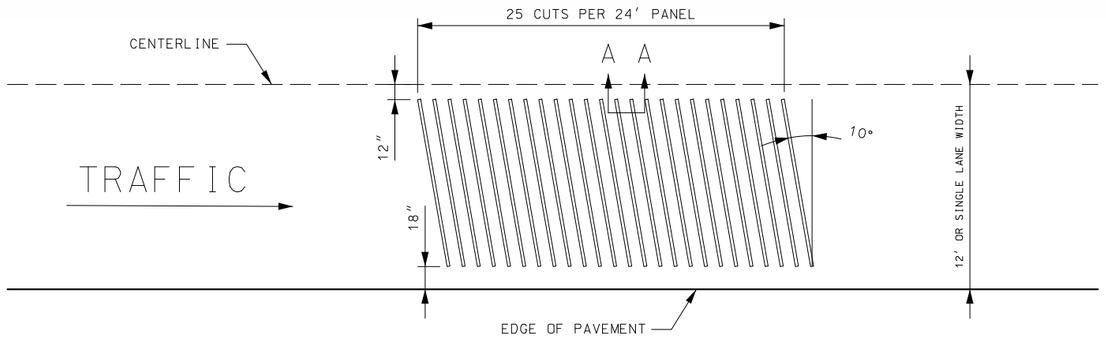
DESCRIPTION	DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

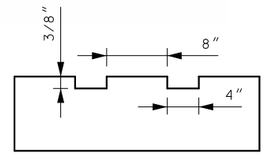
MoDOT

105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)





TYPICAL TRANSVERSE RUMBLE STRIP DIMENSIONS



SECTION A-A

RUMBLE STRIP CUT IN NEW PCC OR HMA PAVEMENT

SPECIAL SHEET
TRANSVERSE RUMBLES
7 OF 7

STATE OF MISSOURI
MARIA K. PETERS
NUMBER PE-2000162118
PROFESSIONAL ENGINEER
Maria Peters
08/06/2024 1:51:14 PM
MARIA K. PETERS - CIVIL
MO-PE-2000162118

DATE PREPARED
8/6/2024

ROUTE	STATE
19	MO
DISTRICT	SHEET NO.
CD	10

COUNTY
GASCONADE

JOB NO.
JCD0045

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)

NOTES:

SIGN (1) AND (26) ARE ONLY USED ON PROJECT LENGTHS 2 MILES OR GREATER.

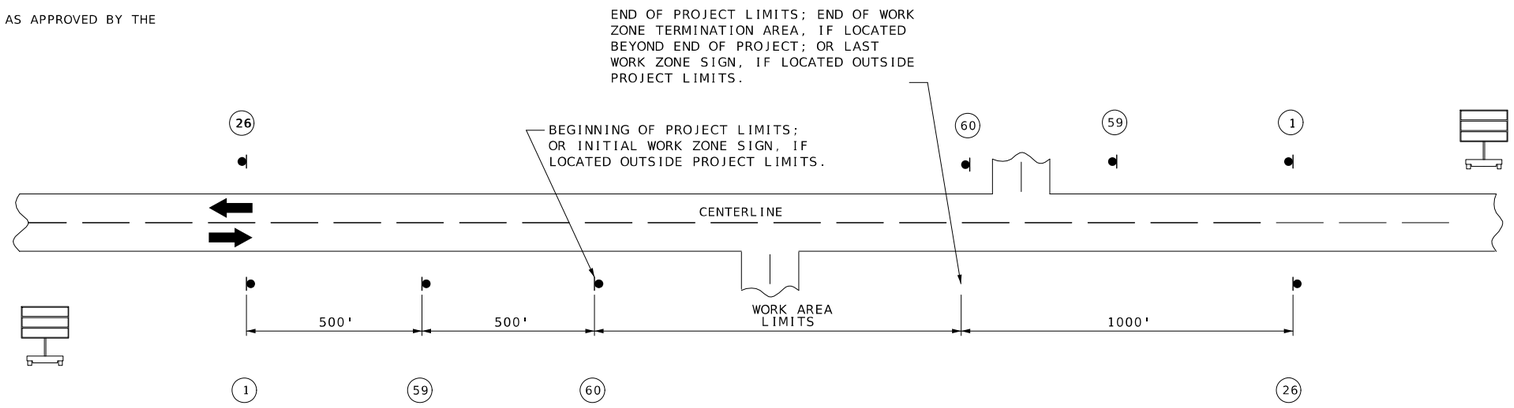
PROVIDE SIGNS IN EACH DIRECTION ON TWO-WAY HIGHWAY.

DISTANCE MAY BE ADJUSTED ACCORDING TO FIELD CONDITIONS.

ANY EXISTING SIGNING THAT CONFLICTS WITH THE TRAFFIC CONTROL SIGNING SHALL BE COMPLETELY COVERED OR REMOVED.

ALL SIGNS ON THIS SHEET ARE CONSIDERED PERMANENT FOR THE DURATION OF THIS PROJECT.

CHANGEABLE MESSAGE SIGNS TO BE LOCATED AS APPROVED BY THE ENGINEER.



CONST-6-48 SIGN-FLAT SHEET:
2.250" Radius, 0.625" Border, White on, Blue;
"Road", D; "Resurfacing", D; "Fall 2025", D;
Table of letter and object lefts

R 6.125	o 10.250	a 13.625	d 17.375
R 6.125	e 10.250	s 13.500	u 17.250	r 21.125	f 23.625	a 26.125	c 29.750	i 33.500	n 35.625	g 39.250
f 6.125	a 8.750	i 11.750	n 13.500	2 17.500	0 20.500	2 23.625	6 26.750
15.500			

GO20-2
(26)

GO20-1
(1)

CONST-8
(59)

CONST-5-48
(60)

TRAFFIC CONTROL
SHEET 1 OF 5

Maria Peters
08/06/2024 1:51:43 PM
MARIA K. PETERS - CIVIL
MO-PE-2000162118

DATE PREPARED
8/6/2024

ROUTE	STATE
19	MO
DISTRICT	SHEET NO.
CD	11

COUNTY
GASCONADE

JOB NO.
JCD0045

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)

WO20-1

2

GO20-4

53

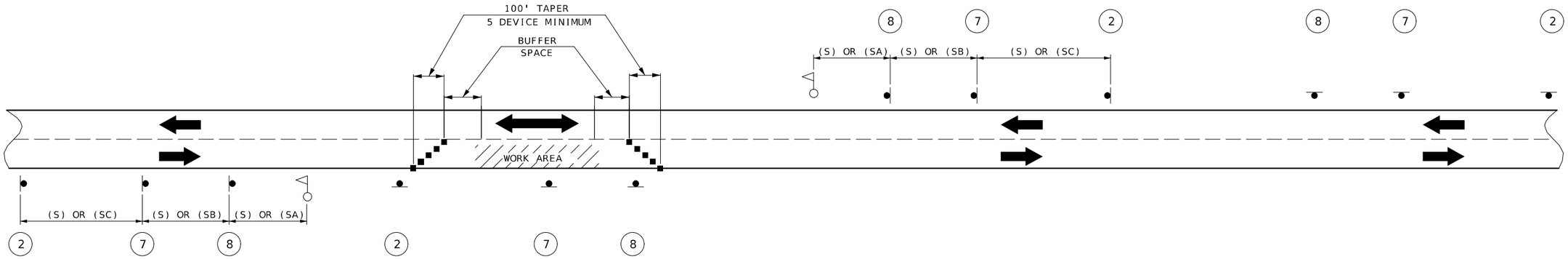
SIGN 53, "PILOT CAR FOLLOW ME" SHALL BE THE CONTRACTOR'S RESPONSIBILITY WHEN IN USE DURING OPERATION.

WO20-4

7

WO20-7a

8



SET 1

ACTIVE

SET 2

INACTIVE

SET 3

ACTIVE

SET 4

INACTIVE

SIGN SETS 1 AND 3 ARE ACTIVE AND (I.E., SIGNS FACE ONCOMING TRAFFIC).

SIGN SETS 2 AND 4 ARE INACTIVE (I.E., SIGNS DO NOT FACE EITHER DIRECTION OF TRAFFIC) WHEN THE RESURFACING OPERATION IS LOCATED BETWEEN SIGN SETS 1 AND 3.

WHEN SIGN SETS 2 AND 4 ARE ACTIVE, SIGN SETS 1 AND 3 BECOME INACTIVE AND ARE ADVANCED TO BECOME SETS 2 AND 4 WITH SIGN LEGENDS TURNED AWAY FROM BOTH DIRECTIONS OF TRAFFIC. WHEN THE RESURFACING OPERATION ADVANCES TO BETWEEN SIGN SETS 2 AND 4, SIGN SETS 2 AND 4 BECOME ACTIVE (I.E., NEW SIGN SETS 1 AND 3) AND SIGN SETS 1 AND 3 ADVANCED IN THE DIRECTION OF THE OPERATION (I.E., NEW SIGN SETS 2 AND 4).

■ - CHANNELIZERS

- FLAGGER

NOTES:

DAYLIGHT FLAGGING OPERATIONS ONLY.

CHANNELIZING DEVICES LOCATED DOWNSTREAM OF THE ONE-LANE, TWO-WAY TAPER ARE OPTIONAL. THESE DEVICES SHOULD BE ELIMINATED WHEN THEIR USE WILL REDUCE THE USABLE LANE WIDTH, INCLUDING ANY ACCEPTABLE SHOULDERS, TO LESS THAN 10' OR WILL SIGNIFICANTLY AFFECT THE RESURFACING OPERATION.

SPEED	SIGN SPACING (FT.) (1)	
PERMANENT POSTED (MPH)	NON-DIVIDED HIGHWAYS (S)	DIVIDED HIGHWAYS (S)
0-35	200	200
40-45	350	500
50-55	500	1000
60-70	1000	(SA)-1000 (SB)-1500 (SC)-2640

NOTES:

(1) SPACING BETWEEN SIGNS, BETWEEN LAST SIGN AND FLAGGER, BEGINNING OF TAPER OR SIGNED CONDITION.

SPACINGS MAY BE ADJUSTED AS NECESSARY TO MEET FIELD CONDITIONS.

PERMANENT POSTED SPEED LIMIT (MPH)	BUFFER SPACE LENGTH (FT)
0 - 35	280
40 - 45	400
50 - 55	560
60 - 70	840

TRAFFIC CONTROL
SHEET 2 OF 5

STATE OF MISSOURI
MARIA K. PETERS
NUMBER PE-2009162118
PROFESSIONAL ENGINEER
Maria Peters
08/06/2024 1:52:08 PM
MARIA K. PETERS - CIVIL
MO-PE-2009162118

DATE PREPARED
8/6/2024

ROUTE	STATE
19	MO
DISTRICT	SHEET NO.
CD	12

COUNTY
GASCONADE

JOB NO.
JCD0045

CONTRACT ID.

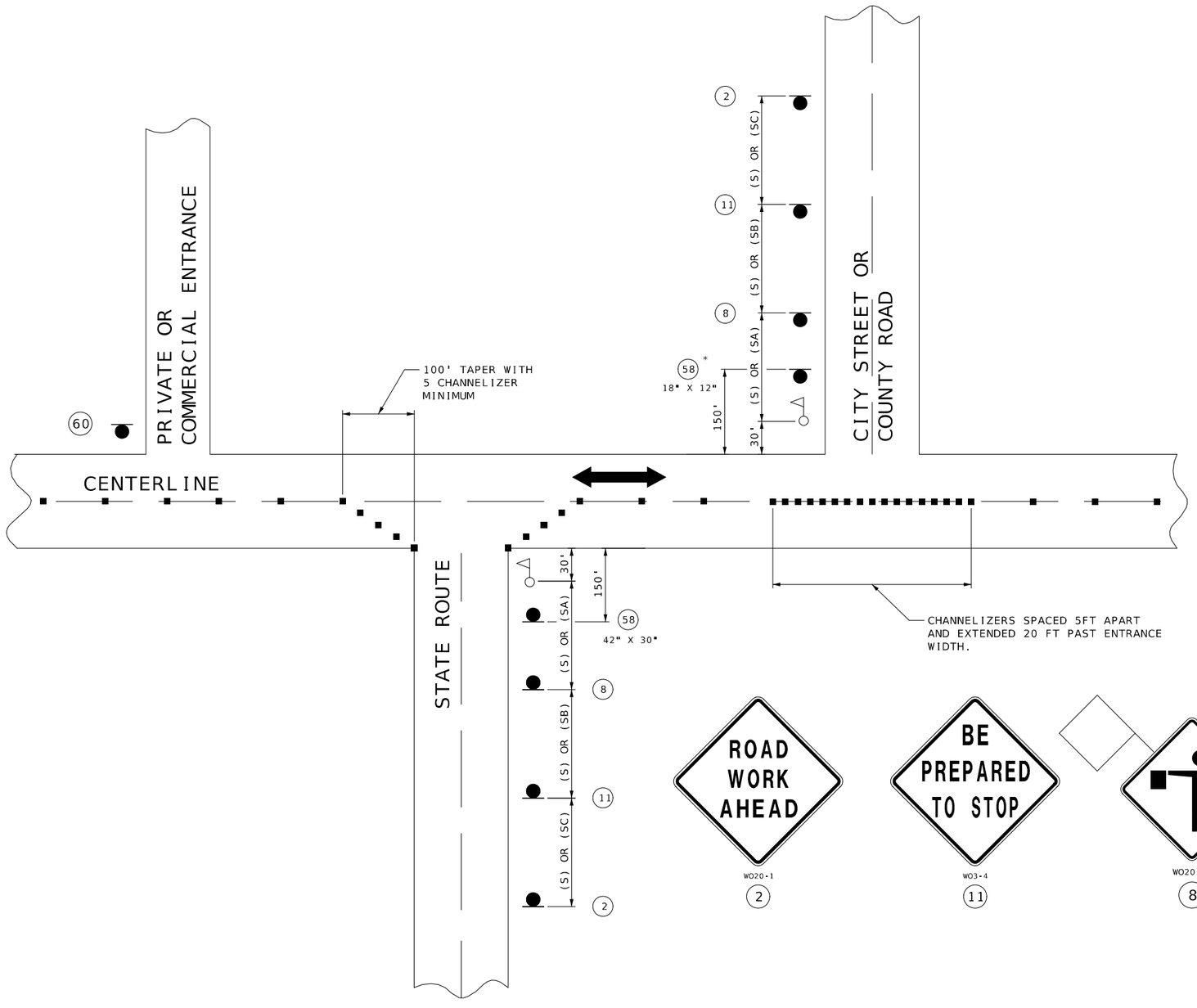
PROJECT NO.

BRIDGE NO.

DESCRIPTION	DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)



SPEED	SIGN SPACING (FT.)	
PERMANENT POSTED (MPH)	NON-DIVIDED HIGHWAYS (S)	DIVIDED HIGHWAYS (S)
0-35	200	200
40-45	350	500
50-55	500	1000
60-70	1000	(SA)-1000 (SB)-1500 (SC)-2640

DISTANCE MAY BE ADJUSTED ACCORDING TO FIELD CONDITIONS.

NOTES:
WARNING SIGNS SHALL BE ERECTED AT EACH INTERSECTION WITH ANOTHER STATE HIGHWAY WITHIN THE WORK ZONE.

ADDITIONAL WARNING SIGNS SHALL BE ERECTED AT OTHER INTERSECTIONS WITHIN THE WORK ZONE, AS DIRECTED BY THE ENGINEER.

■ - CHANNELIZERS (AS SPECIFIED)

- FLAGGER

WO20-1

2

WO3-4

11

WO20-7a

8

GO20-4a

58

SHALL BE USED ON ALL STATE ROUTES AND MAY BE USED ON ANY NON-STATE ROUTES, AS DETERMINED BY THE ENGINEER.

* THE SMALLER 18" X 12" SIGN 58 IS USED ON ALL OTHER NON-STATE ROUTES (CITY STREETS, COUNTY ROADS, ETC.).

24" X 18"

60

SHALL ONLY BE USED AT PRIVATE AND COMMERCIAL ENTRANCES. SEE STD PLAN 616.10

SIDE ROADS ENTERING WORK ZONES

TRAFFIC CONTROL
SHEET 3 0F 5

STATE OF MISSOURI
MARIA K. PETERS
NUMBER PE-2009162118
PROFESSIONAL ENGINEER
Maria Peters
08/06/2024 1:52:35 PM
MARIA K. PETERS - CIVIL
MO-PE-2009162118

DATE PREPARED
8/6/2024

ROUTE	STATE
19	MO
DISTRICT	SHEET NO.
CD	13

COUNTY
GASCONADE

JOB NO.
JCD0045

CONTRACT ID.

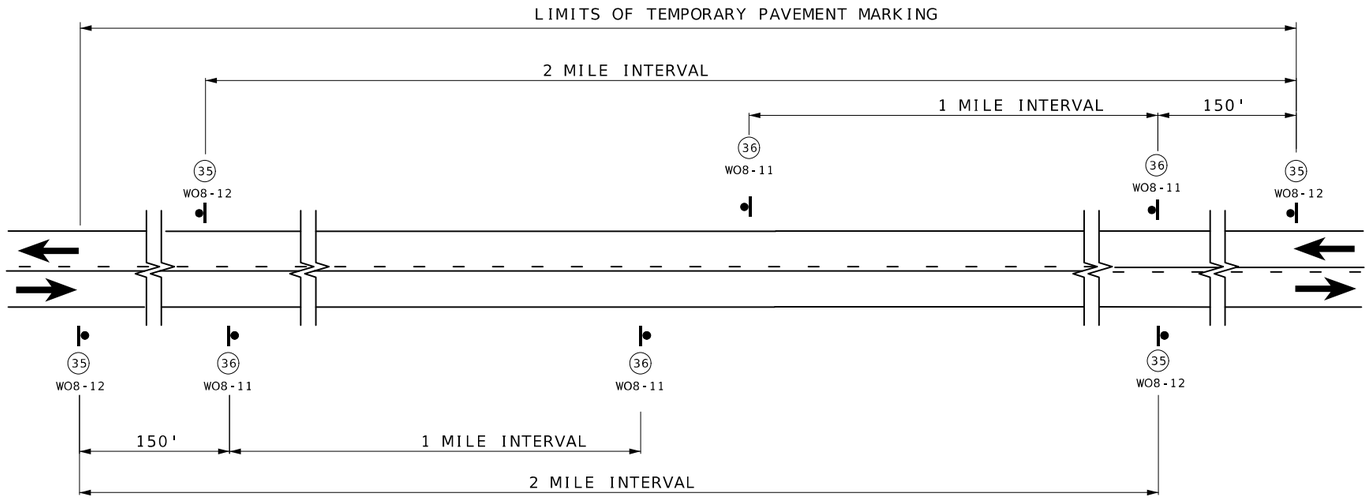
PROJECT NO.

BRIDGE NO.

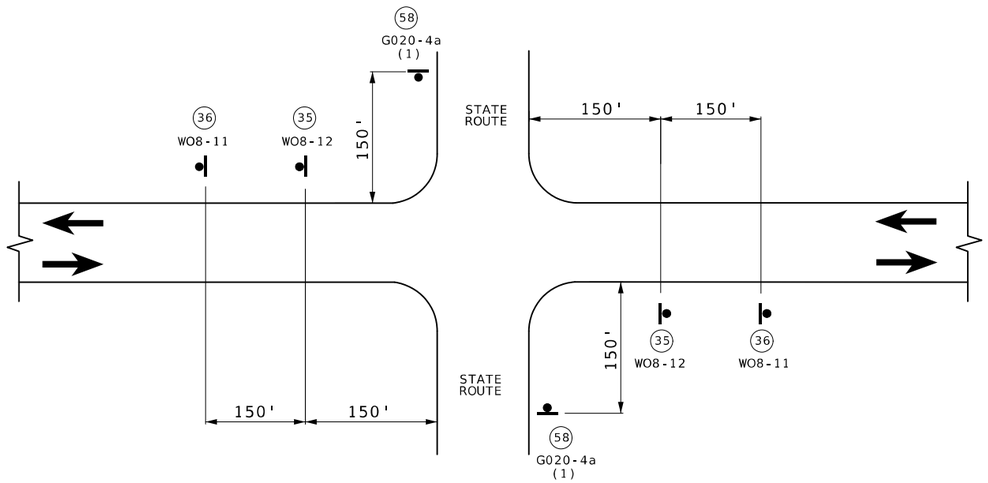
DESCRIPTION	DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)



SIGN SPACING AND TEMPORARY STRIPING FOR MAINLINE



SIGN SPACING AT STATE ROUTE INTERSECTIONS
SHOWING TEMPORARY STRIPING FOR MAINLINE

(1) ADDITIONAL SIDEROADS MAY BE SIGNED AS APPROVED BY THE ENGINEER.

GO20-4a

58

WO8-12

35

WO8-11

36

NOTES:

SIGN (35) AND TEMPORARY RAISED PAVEMENT MARKING (SEE STANDARD PLAN 620.10) INSTALLED WHERE CENTERLINE STRIPING HAS BEEN COVERED OR REMOVED. SIGNS ARE TO REMAIN IN PLACE UNTIL THE PERMANENT CENTERLINE PAVEMENT MARKINGS ARE IN PLACE. SIGNS SHALL BE COVERED OR REMOVED WHEN PAVEMENT CENTERLINE MARKING HAS BEEN INSTALLED.

SIGN (35) IS PLACED AT APPROXIMATELY TWO-MILE INTERVALS AND AT STATE ROUTE JUNCTIONS. WHEN THE INSTALLATION AT A JUNCTION IS WITHIN ONE-EIGHTH MILE OF THE NORMAL MAINLINE SIGN (35), THE LATTER MAY BE ELIMINATED.

ALL SIGNS SHALL BE POST MOUNTED AND IN ACCORDANCE WITH STANDARD PLAN 616.10 AND 903.03.

NOT TO SCALE

STATE OF MISSOURI
MARIA K. PETERS
NUMBER PE-2000162118
PROFESSIONAL ENGINEER

Maria Peters
08/06/2024 1:53:01 PM
MARIA K. PETERS - CIVIL
MO-PE-2000162118

DATE PREPARED
8/6/2024

ROUTE	STATE
19	MO
DISTRICT	SHEET NO.
CD	14

COUNTY
GASCONADE

JOB NO.
JCD0045

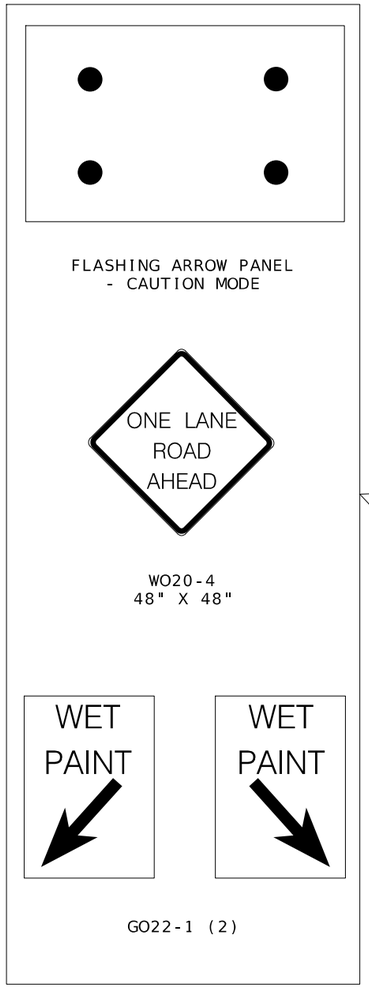
CONTRACT ID.

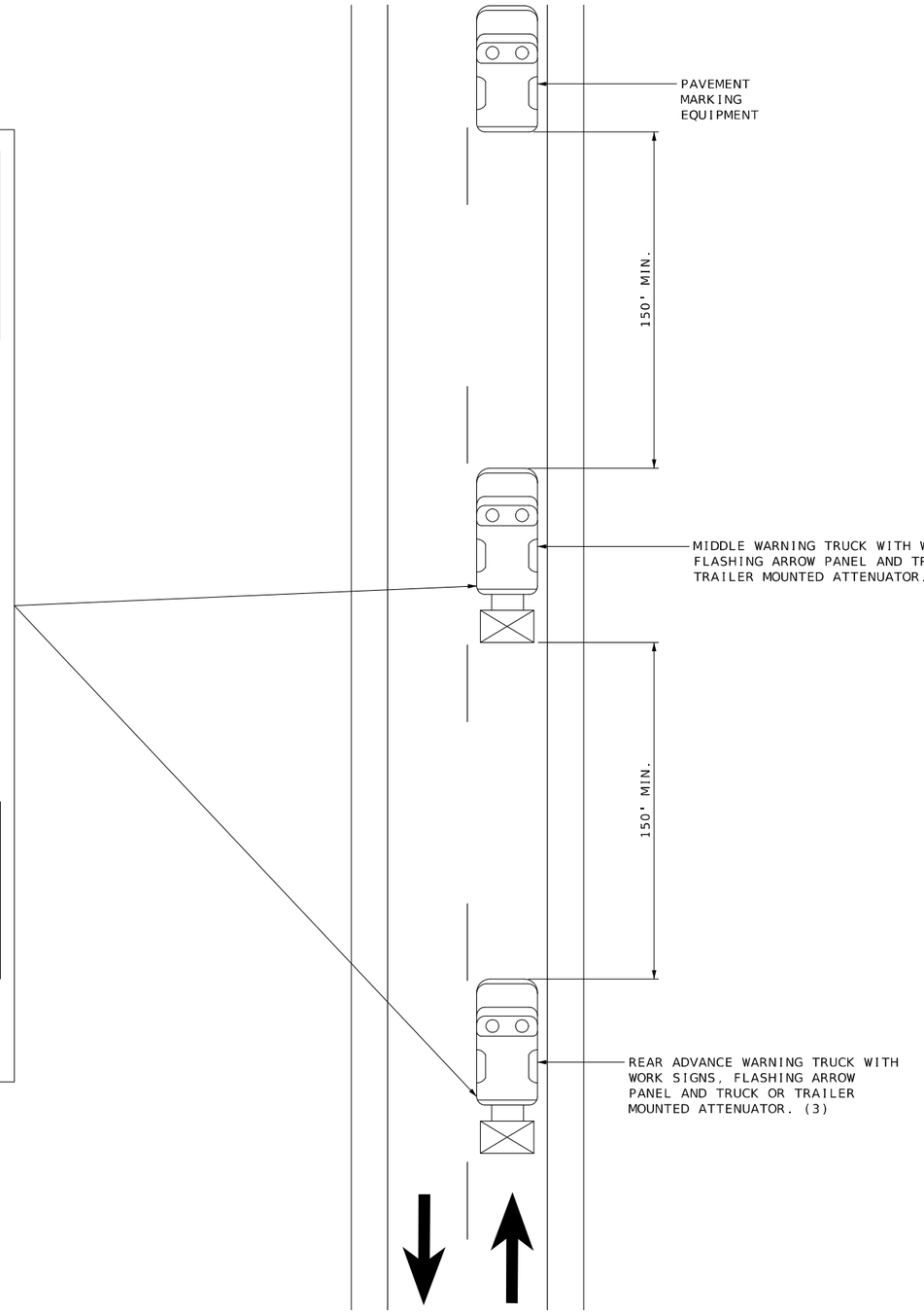
PROJECT NO.

BRIDGE NO.

DESCRIPTION	DATE

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





NOTES:
UPON APPROVAL OF THE ENGINEER, THE CONTRACTOR MAY PROVIDE ADDITIONAL PROTECTIVE TRUCK EQUIPPED WITH PROPER WARNING DEVICES.

PROTECTIVE TRUCK AND WORK VEHICLES SHALL DISPLAY HIGH-INTENSITY ROTATING, FLASHING, OSCILLATING, OR STROBE LIGHTS.

VEHICLE HAZARD WARNING SIGNALS SHALL NOT BE USED INSTEAD OF THE VEHICLE'S HIGH-INTENSITY ROTATING, FLASHING, OSCILLATING, OR STROPE LIGHTS.

FLASHING ARROW PANELS SHALL BE INCIDENTAL TO TRUCK MOUNTED ATTENUATORS, WHEREVER USED. NO ADDITIONAL PAYMENT SHALL BE MADE.

(1) TRUCK IS OPTIONAL ON TWO-LANE UNDIVIDED HIGHWAYS IF SIGNING AND ARROW BOARD IS MOUNTED ON THE PAVEMENT MARKING EQUIPMENT.

(2) WET PAINT SIGNS ARE INSTALLED TO INDICATE THE SIDE IN WHICH THE PAVEMENT MARKING MATERIAL IS BEING APPLIED. AT THE CONTRACTOR'S OPTION, A FRONT FACING WET PAINT SIGN MAY BE INSTALLED ON THE LEFT SIDE OF THE PAVEMENT MARKING EQUIPMENT.

(3) REAR ADVANCE WARNING TRUCK IS POSITIONED AT THE NO TRACK POINT OF THE PAVEMENT MARKING MATERIAL, OR VERTICAL OR HORIZONTAL CURVES THAT RESTRICT SIGHT DISTANCE, OR SPACING SHOWN.

CENTERLINE/EDGELINE STRIPING ON TWO-LANE HIGHWAYS

TRAFFIC CONTROL
SHEET 5 OF 5

STATE OF MISSOURI
MARIA K. PETERS
NUMBER PE-2000162118
PROFESSIONAL ENGINEER
Maria Peters
09/06/2024 1:53:30 PM
MARIA K. PETERS - CIVIL
MO-PE-2000162118

DATE PREPARED
8/6/2024

ROUTE	STATE
19	MO
DISTRICT	SHEET NO.
CD	15

COUNTY
GASCONADE

JOB NO.
JCD0045

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)