DESIGN DESIGNATION

IS 470 AND MO 291

A.A.D.T. - 2024 = 38.250

V = 65 MPH

FUNCTIONAL CLASSIFICATION - INTERSTATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

PLANS FOR PROPOSED STATE HIGHWAY JACKSON COUNTY



NO RIGHT OF WAY ACQUISITION NEEDED

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		0
FIBER OPTICS OVERHEAD TELEPHONE UNDERGROUND TELEPHONE OVERHEAD POWER UNDERGROUND POWER GAS WATER	-F0- 	—F0 ———————————————————————————————————
MANHOLE	D As	\rightarrow
FIRE HYDRANT	HYD	j
WATER VALVE	wv C)
WATER METER	₽)
DROP INLET	•:	
DITCH BLOCK	=	=
GROUND MOUNTED SIGN	SIGN	_
LIGHT POLE		7
H-FRAME POWER POLE		
TELEPHONE PEDESTAL FENCE	PED	7
CHAIN LINK WOVEN WIRE GATE POST	—— \ ——— X E	<u></u>
BENCHMARK	ВМ)

NOTE: DASHED OR OPEN SYMBOLS INDICATE EXISTING FEATURES

-PROJECT LIMITS-IS 470/ MO 291 GORE GRADING, GUARDRAIL R32 R31 12 WOODS CHAPEL 13 18 17 15 1291 24 22 <u>)</u>3502 COLBERN RD 25 30 27 1291 LEE'S SUMMIT T48 32 33 34 T47 T48 T47 11 12 R32 R31 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 OF WARRANTY AS TO THE COMPLETENESS, ACCURACY, OR SUITABILITY OF THE INFORMATION FOR ANY USE. RELIANCE UPON THIS INFORMATION IS DONE AT THE RISK AND PERL 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) (1 SHEET)	2
QUANTITIES (QU) (2 SHEETS)	3
PLAN-PROFILE (PP)	4
REFERENCE POINTS (RP)	5
COORDINATE POINTS (CP)	6
TRAFFIC CONTROL SHEETS (TC)	7 - 10
CROSS SECTIONS (XS)	1 - 5

WITE OF	MISSOLL
S CHRIST	OPHER WEST
≟ ALAN	WEST : ≦
三号 PE-2014	1BEH 4017034 : 55
11/680	- Chin
77,7,070 N	AL EMILIA
CHRIST ALAN NUM PE-2014	4. Were
08/16/2024 CHRISTOPHER AL	9:43:36 AM .LAN WEST - CIVIL
MO-PE-20 DATE PE	
	/2024
ROUTE	STATE
KOUTE	STATE
470/291	MO
470/291	MO SHEET NO.
470/291 DISTRICT KC	MO SHEET NO. 01
470/291 DISTRICT KC	MO SHEET NO. 01
470/291 DISTRICT KC COU JACK	MO SHEET NO. 01 NTY SON
470/291 DISTRICT KC COU JACk JOB	MO SHEET NO. 01 NTY (SON NO.
470/291 DISTRICT KC COU JACK JOB JKU	MO SHEET NO. 01 NTY (SON NO. 0115
470/291 DISTRICT KC COU JACk JOB	MO SHEET NO. 01 NTY (SON NO. 0115
470/291 DISTRICT KC COU JACK JOB JKU(CONTRA	MO SHEET NO. 01 NTY (SON NO. 0115 ICT ID.
470/291 DISTRICT KC COU JACK JOB JKU(CONTRA	MO SHEET NO. 01 NTY (SON NO. 0115
470/291 DISTRICT KC COU JACK JOB JKUC CONTRA	MO SHEET NO. 01 NTY (SON NO. 0115 ICT ID.





LENGTH OF PROJECT

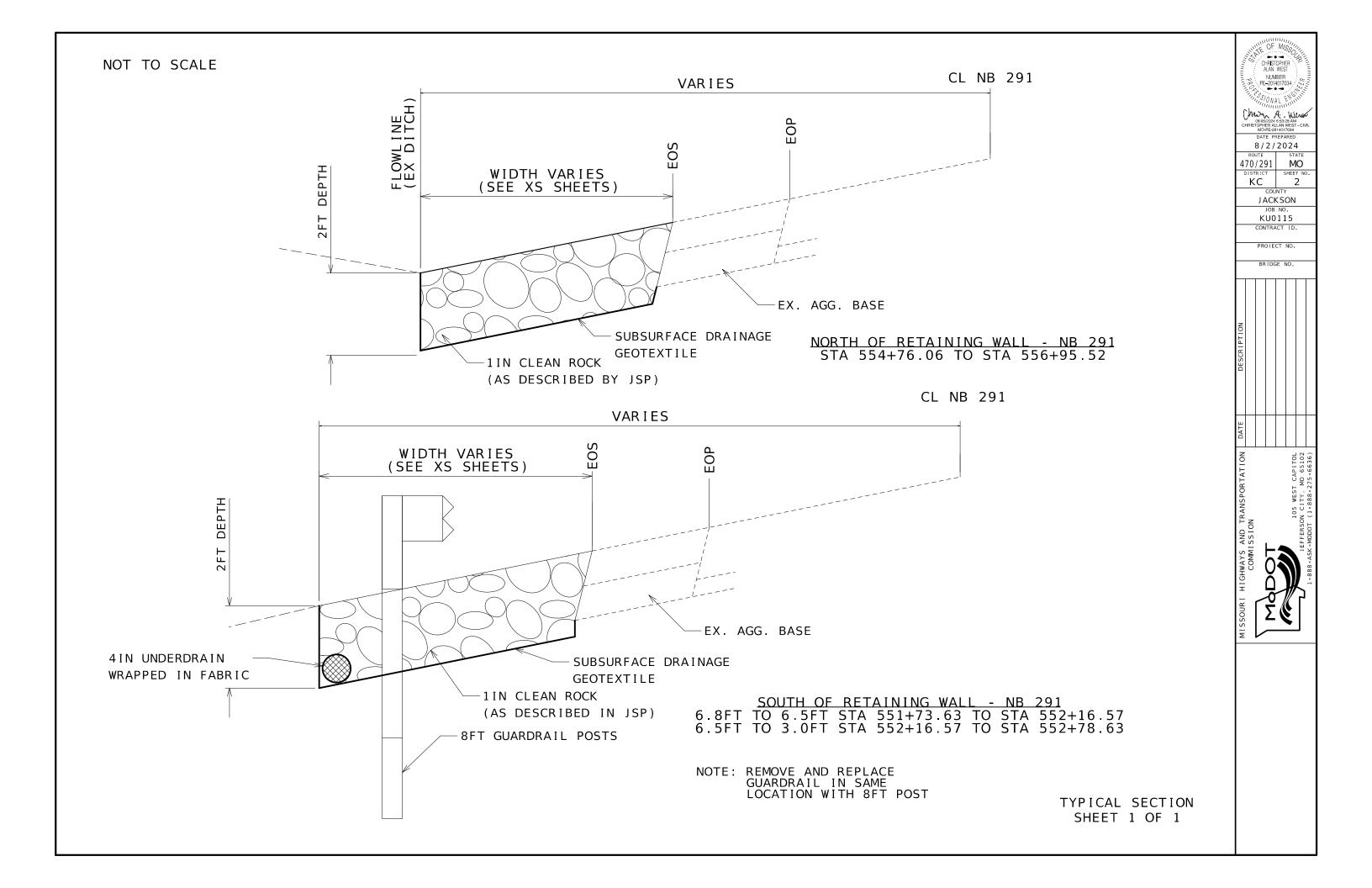
BEGINNING OF PROJECT STA 551+73.63 EB
END OF PROJECT STA 556+95.52 EB

APPARENT LENGTH 0.010 MILES

EQUATIONS AND EXCEPTIONS:
NONE

TOTAL CORRECTIONS 0.000 MILES
NET LENGTH OF PROJECT 521.89 FEET
STATE LENGTH 0.10 MILES

FOR INORMATION ONLY ESTIMATE DISTURBED ACRES 0.116 ACRES



MOBILIZATION

1 LUMP SUM

CONTRACTOR FURNISHED SURVEYING AND STAKING 1 LUMP SUM

REMOVAL OF IMPROVEMENTS										
ROADWAY	STA	STA	OFF	DESCRIPTION	REMARKS					
470/291	551+13	553+29	~17FT LT	GUARDRAIL REMOVAL	END TREATMENT AND GUARDRAIL RUN					
				1 LUMP SUM						

	EARTHW	ORK .			
	CLASS A				
STA	EXCAVATION	REMARKS			
	(CY)				
551+50	0	SOUTH SECTION			
552+00	13.022	SOUTH SECTION			
552+50	23.286	SOUTH SECTION			
553+00	10.264	SOUTH SECTION			
554+75	0.00	NORTH SECTION			
555+00	10.01	NORTH SECTION			
555+50	48.99	NORTH SECTION			
556+00	66.70	NORTH SECTION			
556+50	83.11	NORTH SECTION			
557+00	45.38	NORTH SECTION			
TOTAL 300.76					
TOTAL	301.00				

NOTE: SEE CROSS SECTIONS FOR DETAILS

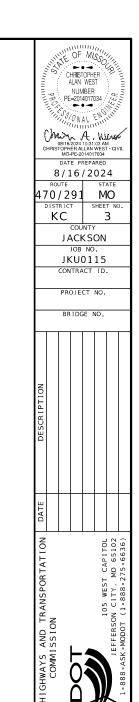
SU	XTILE					
		AREA	* AREA			
STA	STA	(SY)	(SY)	REMARKS		
551+73.63	552+78.63	63.03	86.05	SOUTH SECTION		
551+73.63	552+78.63	12.22	12.22	PIPE WRAPPING		
554+76.06	554+76.06 556+95.52		54+76.06 556+95.52		522.1	NORTH SECTION
		TOTAL	620.37			
		PAY TOTAL	621			

^{*} INCLUDES 2 FOOT VERTICAL MEASUREMENT

PIPE AGG	T EDGE DRAIN		
		PIPE	
STA	STA	(LF)	REMARKS
551+74.63	552+79.63	105	SOUTH SECTION
	TOTAL	105	

ROCK FILL									
STA	STA	MISC. 1 INCH CLEAN ROCK FILL (CY)	REMARKS						
551+76.63	552+78.63	552+78.63 42							
554+76.06 556+95.52		332	NORTH SECTION						
	TOTAL	374							

	GUARDRAIL										
			MGS GUARDRAIL	MASH TYPE A	MGS VERTICAL	*SHAPING SLOPES					
STA	STA	LOCATION	8FT POST	CRASHWORTHY	CONCRETE BARRIER	CLASS III MODIFIED	REMARKS				
			(LF)	END TERMINAL (EA)	TRANS (EA)	MATERIAL (100 FT)					
551+13	553+29	470/291	162.5	1	1	1.6	REPLACE EXISTING				
		TOTAL	163	1	1	2					



SUMMARY OF QUANTITIES
SHEET 1 OF 2

	T	$\overline{}$	TOTAL	. QTY TOTAL SIGN	MI	п		1			QTY TOTAL SIGN	ıl			EFFECTIVE: 10-01-2022
	517	= AREALO		RELOC RELOC NUM			SIZE	ARFA	оту	ГОТАІ	RELOCIRELOC NUM	'			
SIGN	1		-	EACH SQ.FT.	`	sign					EACH SQ FT		ITEM	TOTA	
3101	1 114.		ARNING S		DESCRIPTION	JIGN	1111.		GUIDE			DESCRIPTION	NUMBER		
WO1 - 11	48X4	8 16.00	ARRIVING	TGNS	TURN (SYMBOL LEFT ARROW)	E05-1	36X48		GOIDE	_ 310	113	GORE EXIT	6122008	VI QII	IMPACT ATTENUATOR 40 MPH (SAND BARRELS)
WO1 - 1R	_	8 16.00			TURN (SYMBOL RIGHT ARROW)	E05-2	48X36					EXIT OPEN	6122009		IMPACT ATTENUATOR 45 MPH (SAND BARRELS)
WO1-2L		8 16.00			CURVE (SYMBOL LEFT ARROW)	E05-2a						EXIT CLOSED	6122010		IMPACT ATTENUATOR 50 MPH (SAND BARRELS)
WO1 - 2R	48X4	8 16.00			CURVE (SYMBOL RIGHT ARROW)	GO20-1	60X24	10.00				ROAD WORK NEXT XX MILES	6122012		IMPACT ATTENUATOR 55 MPH (SAND BARRELS)
WO1-3L	_	8 16.00			REVERSE TURN (SYMBOL LEFT ARROW)	GO20-2						END ROAD WORK	6122014		IMPACT ATTENUATOR 60 MPH (SAND BARRELS)
WO1 - 3R		8 16.00			REVERSE TURN (SYMBOL RIGHT ARROW)	GO20-4						PILOT CAR FOLLOW ME	6122017		IMPACT ATTENUATOR 65 MPH (SAND BARRELS)
WO1 -4L		8 16.00 8 16.00			REVERSE CURVE (SYMBOL RECUT ARROW)	I	42X30					PILOT CAR IN USE WAIT & FOLLOW PILOT CAR IN USE WAIT & FOLLOW	6122019		IMPACT ATTENUATOR 70 MPH (SAND BARRELS)
WO1 - 4R		8 16.00			REVERSE CURVE (SYMBOL RIGHT ARROW) DOUBLE ARROW REVERSE CURVE (SYMBOL LT ARROWS)	-	18X12 P 36X24		2	12		WORK ZONE (PLAQUE)	6122020 6122030		REPLACEMENT SAND BARREL IMPACT ATTENUATOR (RELOCATION)
		8 16.00			DOUBLE ARROW REVERSE CURVE (SYMBOL RT ARROWS)	MO4 - 8a	24X18			12		END DETOUR	6123000		TRUCK OR TRAILER MOUNTED ATTENUATOR (TM/
		8 16.00			TRIPLE ARROW REVERSE CURVE (SYMBOL LT ARROWS)	MO4 - 9L	48X36					DETOUR (LEFT ARROW)	6161008		ADVANCED WARNING RAIL SYSTEM
		8 16.00			TRIPLE ARROW REVERSE CURVE (SYMBOL RT ARROWS)	MO4 - 9R	48X36					DETOUR (RIGHT ARROW)	6161012		BUOYS (BOATS KEEP OUT)
WO1-6	60X3	0 12.50			HORIZONTAL ARROW (SYMBOL)	MO4-9P	48X12	4.00				STREET NAME (PLAQUE)	6161013		BUOYS (NO WAKE)
WO1-6a	_	6 18.00			HORIZ. ARROW (SYMBOL ON PERMANENT BARRICADE)	MO4-10L						DETOUR (ARROW LEFT)	6161014		SPECIAL SIGN ASSEMBLY (BOATS KEEP OUT)
WO1 - 7	_	0 12.50			DOUBLE HEAD HORIZONTAL ARROW (SYMBOL)	MO4 - 10R	48X18	6.00				DETOUR (ARROW RIGHT)	6161025		
WO1 - 7a		6 18.00			DOUBLE HEAD HORIZ. ARROW (SYMBOL ON PERM. BARR.)	D1 1	10740	12 25				STOR	6161030	6	TYPE III MOVEABLE BARRICADE
WO1-8 WO1-8a	_	4 3.00 6 7.50			CHEVRON (SYMBOL) CHEVRON (SYMBOL FOR DIVIDED HIGHWAYS)	R1-1 R1-2	48X48 48TR I					STOP YIELD	6161033 6161040	4	DIRECTION INDICATOR BARRICADE FLASHING ARROW PANEL
WO1 - 8 a		8 16.00			STOP AHEAD (SYMBOL)	R1-2a	36X36					TO ONCOMING TRAFFIC (PLAQUE)	6161040	+	TYPE III OBJECT MARKER
WO3 - 2	_	8 16.00			YIELD AHEAD (SYMBOL)	R1-3P	30X12					ALL WAY (PLAQUE)	6161055		SEQUENTIAL FLASHING WARNING LIGHT
WO3 - 3		8 16.00			SIGNAL AHEAD (SYMBOL)	R2-1	36X48		4	48		SPEED LIMIT XX	6161070		TUBULAR MARKER
WO3 - 4	48X4	8 16.00			BE PREPARED TO STOP	R3-1	48X48	16.00				NO RIGHT TURN (SYMBOL)	6161095		RADAR SPEED ADVISORY SYSTEM
WO3 - 5	48X4	8 16.00			SPEED LIMIT AHEAD	R3-2	48X48	16.00				NO LEFT TURN (SYMBOL)			CHANGEABLE MESSAGE SIGN,
WO4 - 1L		8 16.00			MERGE (SYMBOL FROM LEFT)	R3-3	36X36					NO TURNS	6161096		COMMISSION FURNISHED/RETAINED
WO4 - 1R		8 16.00			MERGE (SYMBOL FROM RIGHT)	R3-4	48X48					NO U-TURN (SYMBOL)			CHANGEABLE MESSAGE SIGN W/O COMM.
		8 16.00	2 22		MERGE (ARROW SYMBOL)	R3-7L	30X30					LEFT LANE MUST TURN LEFT	6161098	4	INTERFACE - CONTRACTOR FURNISHED/RETAINS
WO4 - 1 a		8 16.00 8 16.00	2 32		MERGE (ARROW SYMBOL) ROAD/BRIDGE/RAMP NARROWS	R3-7R R4-1	30X30 36X48					RIGHT LANE MUST TURN RIGHT DO NOT PASS	 6161099	4	CHANGEABLE MESSAGE SIGN WITH COMM. INTERFACE - CONTRACTOR FURNISHED/RETAINS
WO5 - 3		8 16.00			ONE LANE BRIDGE	R4-1	36X48					PASS WITH CARE	6162000		WORK ZONE TRAFFIC SIGNAL SYSTEM
WO5 - 5			2 32		NARROW LANES	R4-8a	36X48					KEEP LEFT (HORIZONTAL ARROW)	6162002		TEMPORARY LONG-TERM RUMBLE STRIPS
WO6 - 1	_	8 16.00			DIVIDED HIGHWAY (SYMBOL)	R4-7a	36X48					KEEP RIGHT (HORIZONTAL ARROW)	6162004		TEMPORARY SHORT-TERM RUMBLE STRIPS
WO6 - 2	48X4	8 16.00			DIVIDED HIGHWAY END (SYMBOL)	R5-1	30X30	6.25				DO NOT ENTER			TEMPORARY TRAFFIC BARRIER
WO6 - 3		8 16.00			TWO WAY TRAFFIC (SYMBOL)	R5-1a	36X24					WRONG WAY	61736000)	CONTRACTOR FURNISHED/RETAINED
WO7 - 3a			2 10		NEXT 1 MILES (PLAQUE)	R6-1L	54X18					ONE WAY ARROW (LEFT)			TEMPORARY TRAFFIC BARRIER
WO8 - 1		8 16.00			BUMP	R6-1R	54X18					ONE WAY ARROW (RIGHT)	6173602		CONTRACTOR FURNISHED/COMMISSION RETAINED
WO8 - 2 WO8 - 3		8 16.00 8 16.00			DIP PAVEMENT ENDS	R6-2L R6-2R	24X30 24X30					ONE WAY (LEFT) ONE WAY (RIGHT)	6174000		TEMP. TRAFFIC BARRIER HEIGHT TRANSITION
WO8 - 4		8 16.00			SOFT SHOULDER	R9-9	24X12					SIDEWALK CLOSED	01/3010/	1	RELOCATING TEMPORARY TRAFFIC BARRIER TEMPORARY TRAFFIC BARRIER
WO8 - 5		8 16.00			SLIPPERY WHEN WET (SYMBOL)		24/12	2.00				SIDEWALK CLOSED AHEAD,	6176000	3	COMMISSION FURNISHED/RETAINED
WO8 - 6		8 16.00			TRUCK CROSSING (WITH FLAGS)	R9-11L	24X18	3.00				(ARROW LEFT) CROSS HERE			TEMP. TRAFFIC BARRIER HEIGHT TRANSITION
WO8 - 6 c	48X4	8 16.00			TRUCK ENTRANCE							SIDEWALK CLOSED AHEAD,	6177000	3	COMMISSION FURNISHED/RETAINED
WO8 - 7		6 9.00			LOOSE GRAVEL		24X18					(ARROW RIGHT) CROSS HERE	6208064		TEMPORARY RAISED PAVEMENT MARKER
WO8 - 7a					FRESH OIL/LOOSE GRAVEL	I	24X36					STOP HERE ON RED (45^ ARROW)	9029400		TEMPORARY TRAFFIC SIGNALS
		8 16.00			LOW SHOULDER	R11-2	48X30	10.00				ROAD CLOSED	9029401		TEMPORARY TRAFFIC SIGNALS AND LIGHTING
		8 16.00 8 16.00			UNEVEN LANES NO CENTER LINE	H _{P11 33}	60X30	12 50				ROAD CLOSED XX MILES AHEAD LOCAL TRAFFIC ONLY			
		8 16.00			GROOVED PAVEMENT		60X30					ROAD CLOSED TO THRU TRAFFIC			
		4 5.00			MOTORCYCLE (PLAQUE)		A 60X48					FINE SIGN			
		8 16.00			SHOULDER DROP-OFF (SYMBOL)		X 56X12					SPEEDING/PASSING (PLATE)			
WO8 - 17	P 30X2	4 5.00			SHOULDER DROP-OFF (PLAQUE)										
		9.62			RAILROAD CROSSING		48X36					POINT OF PRESENCE			
	_	4 4.00			DOUBLE DOWN ARROW (SYMBOL)		96X48					POINT OF PRESENCE			
		8 16.00			LOW CLEARANCE (SYMBOL)		48X24					RATE OUR WORK ZONE			
		8 3.00 4 14.00			LOW CLEARANCE (PLAQUE) OVERHEAD LOW CLEARANCE (FEET AND INCHES)		72X36 48X36					RATE OUR WORK ZONE WORK ZONE NO PHONE ZONE			
	_	0 50.00			LOW CLEARANCE XX FT XX IN XX MILES AHEAD	1 -01431-0	40/30	12.00				HOME ZONE NO THORE ZONE			
		0 50.00			WIDTH RESTRICTION XX FT XX IN XX MILES AHEAD	1									
		0 6.25			ADVISORY SPEED (PLAQUE)										
	_	4 5.00			XXX FEET (PLAQUE)										
WO16-3	30X2	4 5.00			X MILE (PLAQUE)										
		8 16.00	6 96		ROAD/BRIDGE/RAMP WORK AHEAD		\perp								
		8 16.00			DETOUR AHEAD	-									
	_	8 16.00			ROAD CLOSED AHEAD	1 616 17	0.05		-	TOT A L					
		8 16.00 8 16.00	2 32		ONE LANE ROAD AHEAD RIGHT/CENTER/LEFT LANE CLOSED AHEAD	616-10	U.US RUCTION	ן כזכי		TOTAL 326					
WO20-5			2 32		2 RIGHT/CENTER/LEFT LANES CLOSED AHEAD	616-10		4 21G	147	J20	TOTAL				

616-10.10

RELOCATED SIGNS

TOTAL 0

WO20-6a 48X48 16.00 2 32

WO21-5 48X48 16.00 2 32

WO20-5a 48X48 16.00

WO20-7a 48X48 16.00

WO21-2 36X36 9.00

WO22-1 48X48 16.00

WO22-2 42X36 10.50

WO22-3 42X36 10.50

GO22-1 21X15 2.19

RIGHT/CENTER/LEFT LANE CLOSED

TURN OFF 2-WAY RADIO AND PHONE

FLAGGER (SYMBOL, WITH FLAGS)

FRESH OIL

SHOULDER WORK AHEAD

BLASTING ZONE AHEAD

WET PAINT (ARROW PIVOTS)

END BLASTING ZONE

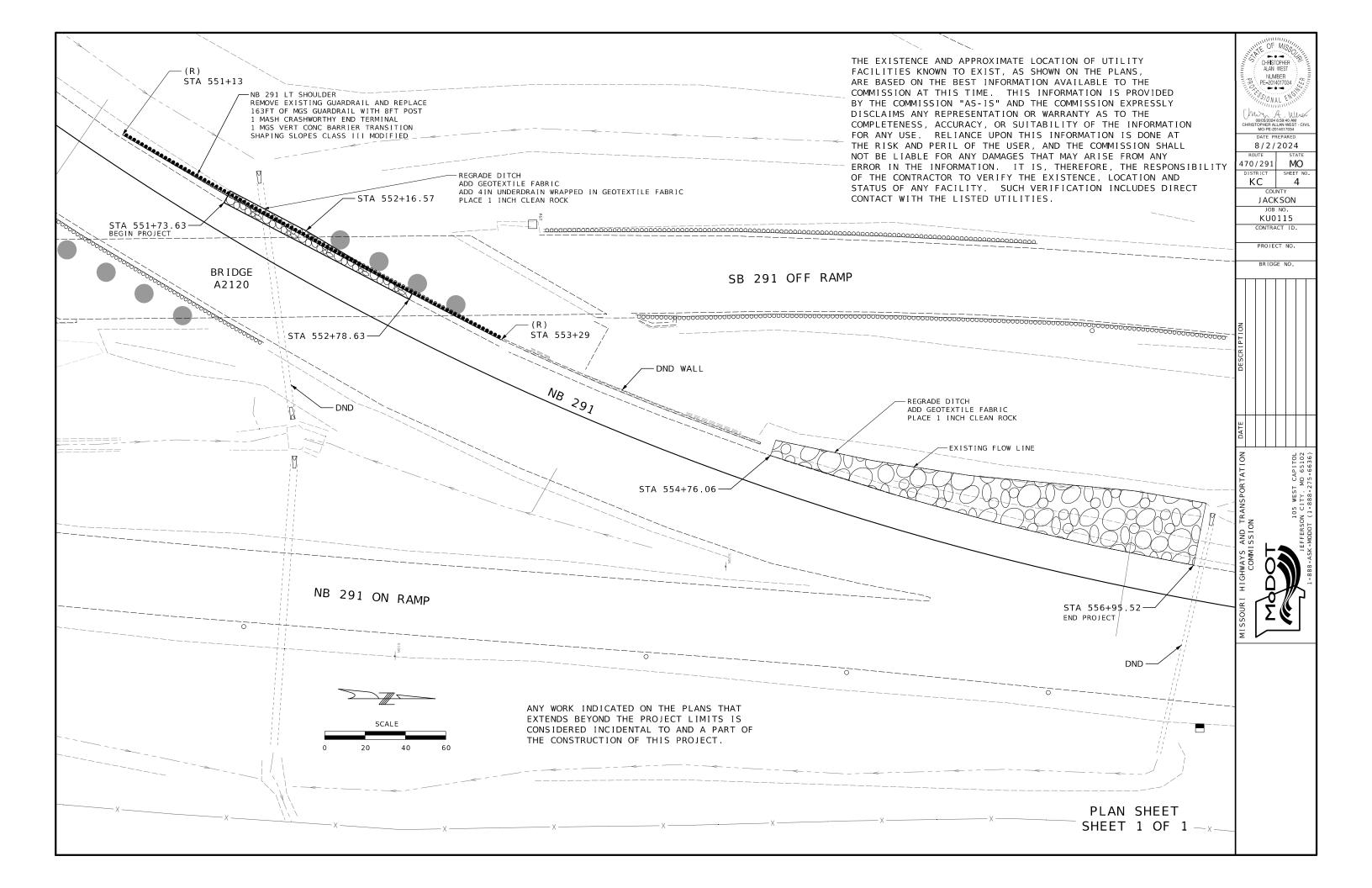
2 RIGHT/CENTER/LEFT LANES CLOSED AHEAD

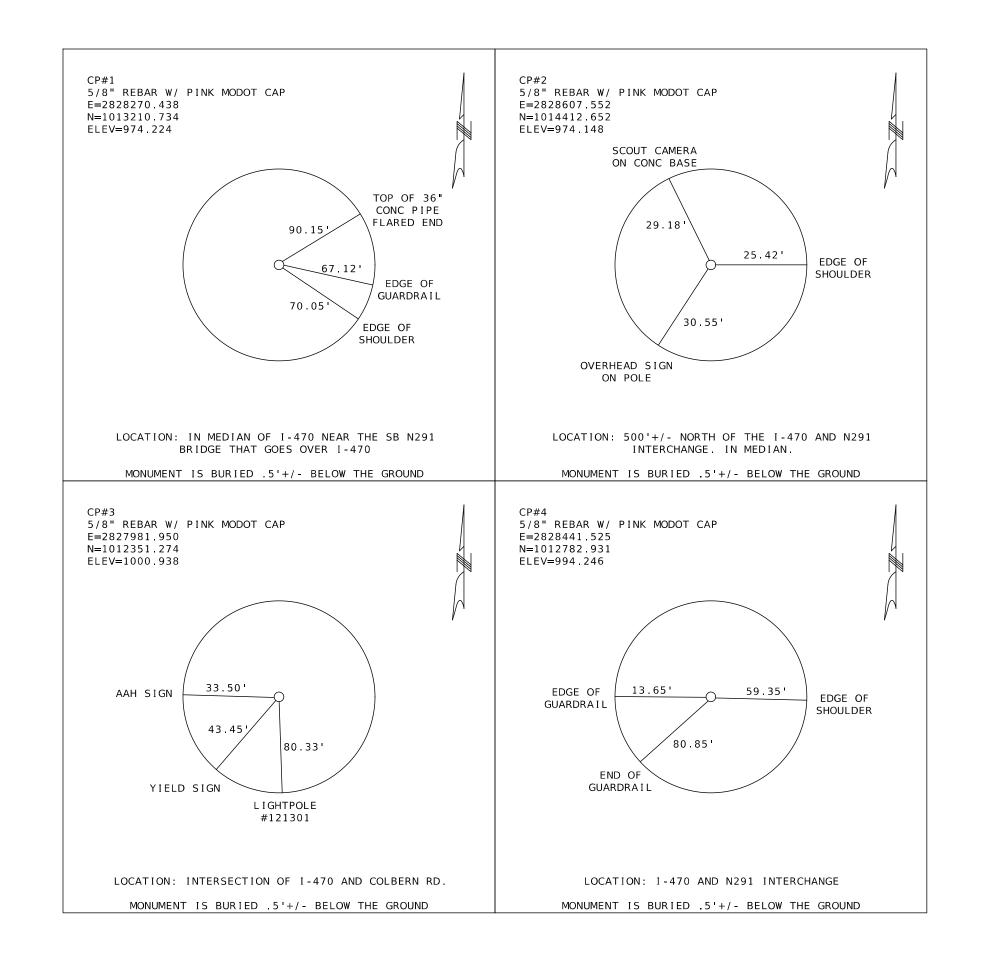
CHRISTOPHER
ALAN WEST
NUMBER
PE-2014017034 .S) .S) .S) .S) .S) OB/16/2024 10:32:46 AM CHRISTOPHER ALLAN WEST - CIVIL MO-PE-2014017034 8/16/2024 470/291 MO KC 3 TMA) JACKSON JOB NO.

JKU0115

CONTRACT ID. PROJECT NO. BRIDGE NO. INED INED NED ON

QUANTITY SHEET 2 OF 2





CHRISTOPHER ALAN WEST NUMBER PE-2014017034 OB/05/2024 6:58:39 AM CHRISTOPHER ALLAN WEST - CIVIL MO-PE-2014017034 8/2/2024 170/291 MO KC 5 JACKSON JOB NO. JKU0115 CONTRACT ID. PROJECT NO. BRIDGE NO.

REFERENCE POINT SHEET SHEET 1 OF 1

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, MULTIPY THE PROJECT COORDINATES BY THE AVERAGE GRID FACTOR AS SHOWN IN THE "REFERENCE CONTROL INFORMATION" PORTION OF THIS TABLE.

	PROJECT COORDIN	ATE INFOR	RMATION					
	COORDINATE SYSTEM	MODIFIED S	MODIFIED STATE PLANE(GROUND)					
	HORIZONTAL DATUM	NAD83	NAD83					
	VERTICAL DATUM	NAVD88						
	GEOID MODEL	GEOID18						
	ELEVATIONS	GPS OBSERVATION						
	DETERMINED BY	GPS OBSERV	ATTON					
	PROJECT PROJECTION	FACTOR 1.00009991						
	REFERENCE CONTR	OL INFORM	MAT I ON					
	COORDINATE SYSTEM	MO COORDIN	IATE SYSTEM OF 1983					
	CONTROL STATION	MO GEOGRAP	HIC REFERENCE SYST	ЕМ				
	556160047160	•						

LCOOKDINAIL 3131F	-141	MO	COOKDIN	AIL	3131LM OI	1903		
CONTROL STATION		МО	GEOGRAP	HIC	REFERENCE	SYSTEM		
DESIGNATION	Bra	Braun 3						
CORS_ID	X	XX						
PID	JE:	JE1870						
LATITUDE	38€	38�57'39.82591"						
LONGITUDE	094�21 ' 35 . 18197							
NORTHING (M)	310	013	6.3750					
EASTING (M)	862153.3230							
ZONE	WES	ST						
PROJECT AVERAGE	GR I	D	FACTOR	0.9	9990010			

PROJECT NORTHING X AVERAGE GRID FACTOR

= STATE PLANE NORTHING
PROJECT EASTING X AVERAGE GRID FACTOR
= STATE PLANE EASTING

EXAMPLE: CONTROL POINT #___ N _____ X _.___ = N E _____ X _.__ = E _____

LINEAR UNIT CONVERSION

1 METER = 3.280833333 US SURVEY FEET (USFT)

			COC	ORDINATE POIN	T LISTING	
			MODIFIE	D STATE PLANE (GROUND)	
		OFFSET	NORTH I NG	EASTING	ELEVATION	
STATION	LOCATION	(USFT)	(US SURVEY FT)	(US SURVEY FT)	(US SURVEY FT)	DESCRIPTION
AL I GNMENTS						
548+46.790	470_291	0	1,012,961.37	2,828,182.25	974.46	TS
550+13.522	470_291	0	1,013,090.20	2,828,288.09	=	SPI
550+96.787	470_292	0	1,013,159.00	2,828,335.21	971.15	SC
553+83.746	470_293	0	1,013,395.76	2,828,497.36	-	HP I
556+63.207	470_294	0	1,013,676.71	2,828,555.80	968.59	CS
557+46.599	470_295	0	1,013,758.36	2,828,572.78	=	SPI
559+13.202	470_296	0	1,013,923.93	2,828,592.37	970.88	ST

S AND TRANSPORTATION	DATE	DESCRIPTION						47			11111111	IIIII.
MISSION							IST K) HRIS	PROXILI	371
			BR		Jk		RIC	UTE	мо- DAT 8 /	08/05 TOPH MO-	PE So,	NIE NE
			IDO	DJE	JOB (UI	COL	Т		E PI	۱۱۱۱	NUN -201 	HRIST ALAN
4			E I		01		S		REPA	4 6:58:	40170	M/,
105 WEST CAPITOL			NO.				HEE	ST.	7034 RED	W 02 AM WES	034 ENG	ER IT
JEFFERSON CITY, MO 65102								ATE		Lvi e 1 1 - CIV	11/1/68	
SK-MODOT (1-888-275-6636)							ο.			/IL	IIIIIIIIII	

SPACING AND TAPER LENGTHS FOR WORK ZONE SIGNS, CHANNELIZERS AND CONCRETE BARRIER

NOTE:

CONDITION.

FIELD CONDITIONS.

FOR LANE AND 10' SHOULDER

(1) SPACING BETWEEN SIGNS AND SPACING BETWEEN LAST

(2) SPACING MAY BE ADJUSTED AS NECESSARY TO MEET

(3) TAPER LENGTHS SHOWN INCLUDE LENGTH REQUIRED

(4) CONCRETE BARRIER MAY BE INSTALLED AT 8:1 FLARE

RATE FROM THE SHOULDER POINT OF THE LIMITS OF THE CLEAR ZONE WHERE THE SIDE SLOPE IS 6:1 OR FLATTER

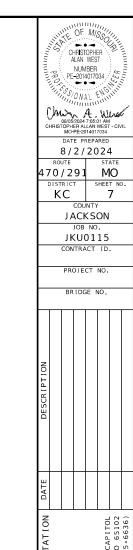
SIGN AND FLAGGER, BEGINNING OF TAPER, OF SIGNED

SIGN SP	ACING FOR A	ADVANCE SIGN SERIES (1) (2)
PERMANENT		
POSTED SPEED	UNDIVIDED	DIVIDED
MPH	HIGHWAYS	HIGHWAYS
0-35	200′	200′
40-45	350′	500′
50-55	500′	1000′
60-70	1000′	SA - 1000' SB - 1500' SC - 2640'

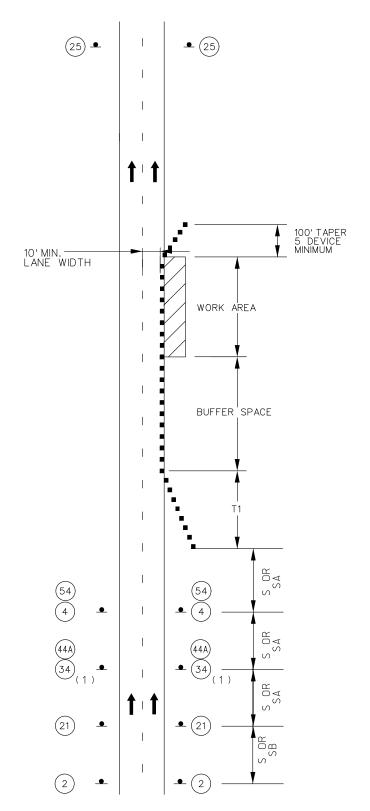
TAPE	R LENGTHS A	ND END TREAT	TMENTS FOR	CONCRETE BARRIER
PERMANENT				
POSTED SPEED	MINIMUM LANE	TAPER LENGTH	(3)	
MPH	10′	11′	12′	END TREATMENT (4)
< 40	160′	168′	176′	BARRIER HEIGHT TRANSITION
> 40	160′	168′	176′	APPROVED CRASH CUSHION

TAPE	R LENGTHS AI	ND END TREAT	TMENTS FOR (CONCRETE BARRIER
PERMANENT				
POSTED SPEED	MINIMUM LANE	TAPER LENGTH	(3)	
MPH	10′	11′	12′	END TREATMENT (4)
< 40	160′	168′	176′	BARRIER HEIGHT TRANSITION
> 40	160′	168′	176′	APPROVED CRASH CUSHION

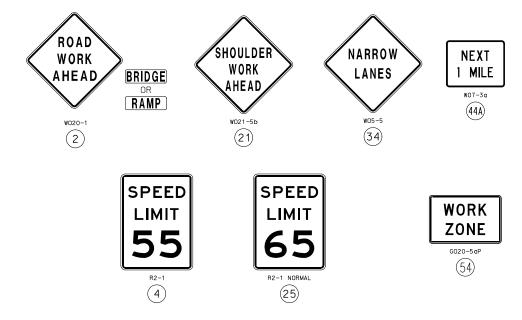
		TAPER	LENGTHS AND	SPACING FOR CHANN	ELIZER	S	
PERMANENT				MINIMUM SHOULDER	BUFFER	MAXIMUM CHANNELI	ZER SPACING
POSTED SPEED	MINIMUM LANE	TAPER LENGTH	(3)	TAPER LENGTH	LENGTH	THROUGH	THROUGH
MPH	10′	11′	12′	BASED ON 10' SHOULDER	FT	TAPER	WORK AREA
0-35	205′	225′	245′	70′	280′	35 <i>′</i>	40′
40-45	450′	495′	540′	150′	400′	40′	80′
50-55	550′	605′	660′	185′	560′	50′	80′
60-70	700′	770′	840′	235′	840′	60′	120′



TEMPORARY TRAFFIC CONTROL SHEET 1 OF 4



MULTI-LANE DIVIDED
SHOULDER WORK
MINOR TRAVELWAY ENCROACHMENT



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.

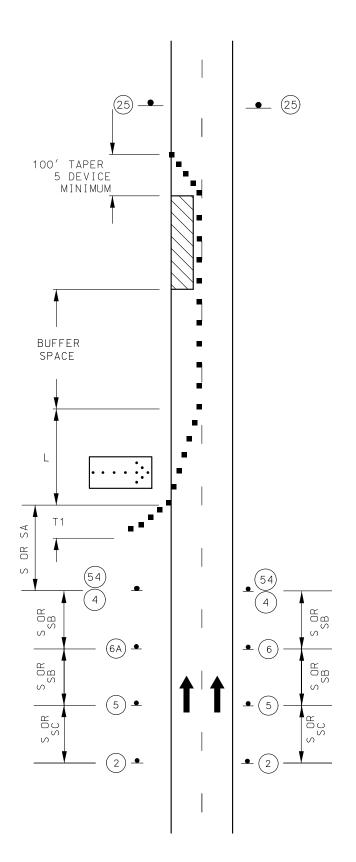
VEHICLE HAZARD WARNING SIGNALS SHALL NOT BE USED INSTEAD OF THE VEHICLE'S HIGH -INTENSITY ROTATING FLASHING, FLASHING, OSCILLATING, OR STROBE LIGHTS.

SHADOW AND WORK VEHICLES SHALL DISPLAY HIGH-DENSITY ROTATING, FLASHING, OSCILLATING, OR STROBE LIGHTS.

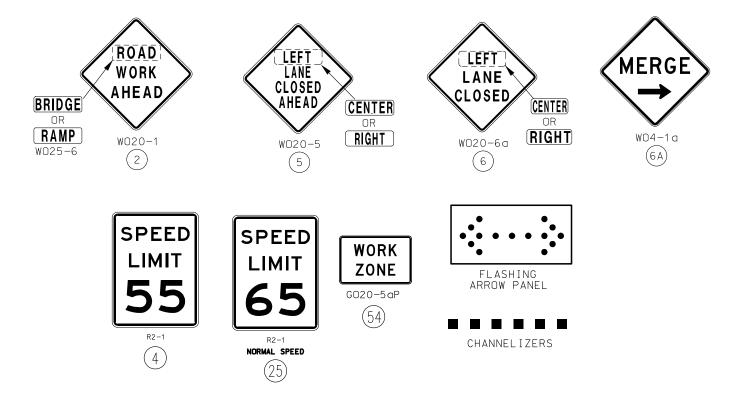
(1). SIGN 44A NOT REQUIRED FOR NARROW LANE SECTIONS LESS THAN ONE MILE.

SHOULDER WORK MINOR ENCROACHMENT TEMPORARY TRAFFIC CONTROL SHEET 2 OF 4





TWO-LANE DIVIDED HIGHWAY



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.

REMOVE AND/OR MODIFY ANY EXISTING PAVEMENT MARKING AS NEEDED.

TEMPORARY PAVEMENT MARKING REQUIRED WITH LONG TERM CLOSURES.

THIS INFORMATION ALSO SHALL BE USED WHEN WORK IS BEING PREFORMED IN THE LANE ADJACENT TO THE MEDIAN ON A DIVIDED HIGHWAY. IN THIS CASE, THE LEFT LANE CLOSED SIGNS AND THE CORRESPONDING MERGE OR LANE ENDS SIGN SHALL BE SUBSTITUTED.

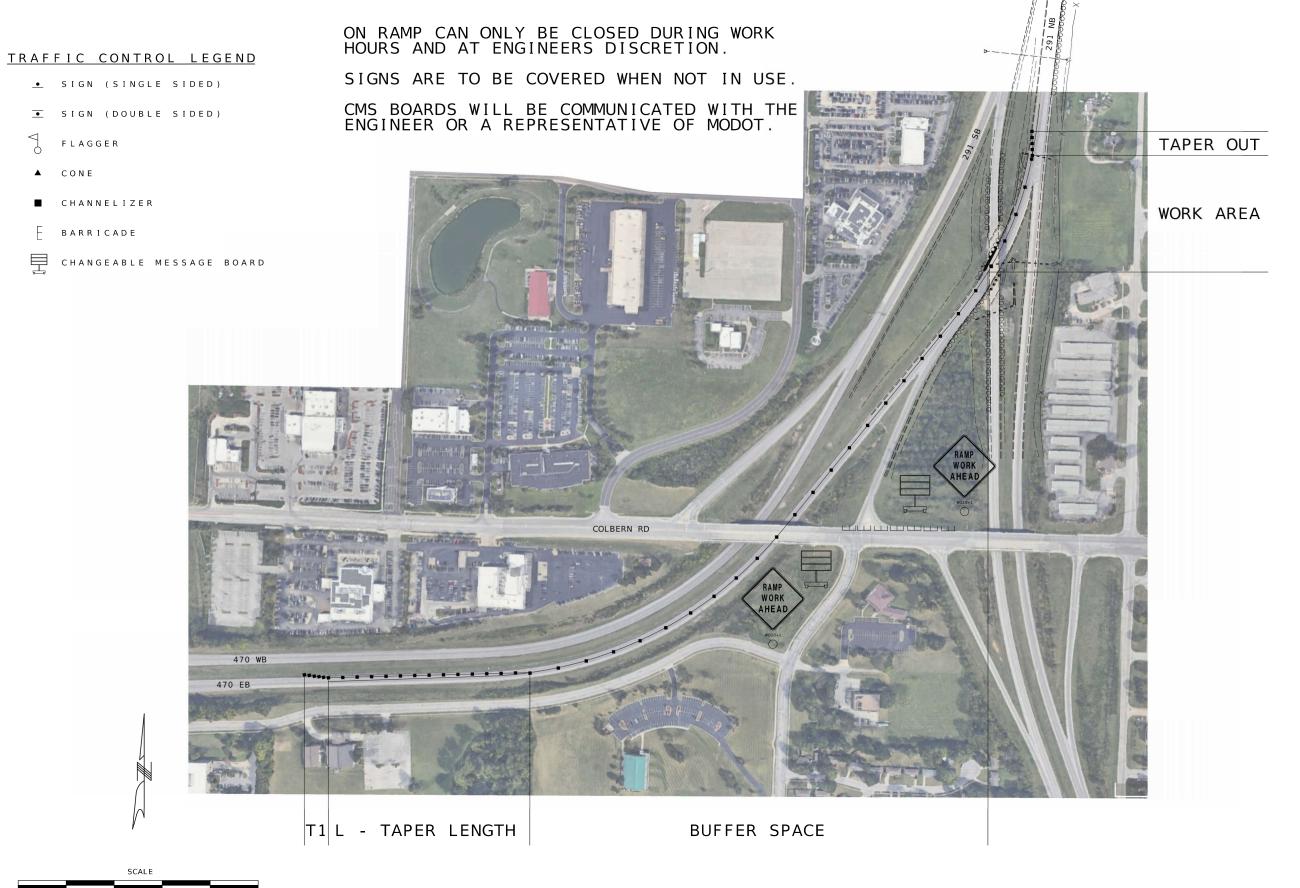
WHEN A SIDE ROAD INTERSECTS THE HIGHWAY WITHIN THE TTC ZONE ADDITIONAL TTC DEVICES SHALL BE PLACED AS NEEDED.

AN ARROW BOARD SHALL BE USED WHEN A FREEWAY LANE IS CLOSED. WHEN MORE THAN ONE FREEWAY LANE IS CLOSED, A SEPARATE ARROW BOARD SHALL BE USED FOR EACH CLOSED LANE.

WARNING LIGHTS WHEN SEQUENTIAL OR WARNING LIGHTS SHOULD BE USED ON NIGHTTIME OPERATIONS.

STATIONARY
LANE CLOSURE
ON DIVIDED HIGHWAY
TEMPORARY
TRAFFIC CONTROL
SHEET 3 OF 4

HIGHWAYS AND TRANSPORTATION	DATE	DESCRIPTION					47		0	HIIIIIIII	
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1-888-ASK-MODOT (1-888-275-6636)							<u> </u>		/IL	WWW THILL	<u>.</u>



LANE CLOSURE SET UP FOR LEFT LANE

NOTE: USE TCP SHEET 3 OF 4 FOR SIGNAGE

TRAFFIC CONTROL SHEET 4 OF 4

8/2/2024 ROUTE STATE 70/291 MO

KC 10

JACKSON

JOB NO.

JKU0115

CONTRACT ID.