DESIGN DESIGNATION

ROUTE 752

A.A.D.T. - 2026 = 7119
A.A.D.T. - 2046 = 7866
D.H.V. = 8.46%
T = 12.73%
V = 30 M.P.H.
D(E/W) = 49.8% / 50.2%

FUNCTIONAL CLASSIFICATION-MULTI-LANE

KING HILL AVE

A.A.D.T. - 2026 = 7340
A.A.D.T. - 2046 = 9357
D.H.V. = 9.21%
T = 6.38%
V = 30 M.P.H.
D(N/S) = 51.7% / 48.3%

FUNCTIONAL CLASSIFICATION-TWO-LANE

NO RIGHT OF WAY ACQUISITION

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	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	

NOTE: DASHED OR OPEN SYMBOLS INDICATE EXISTING FEATURES

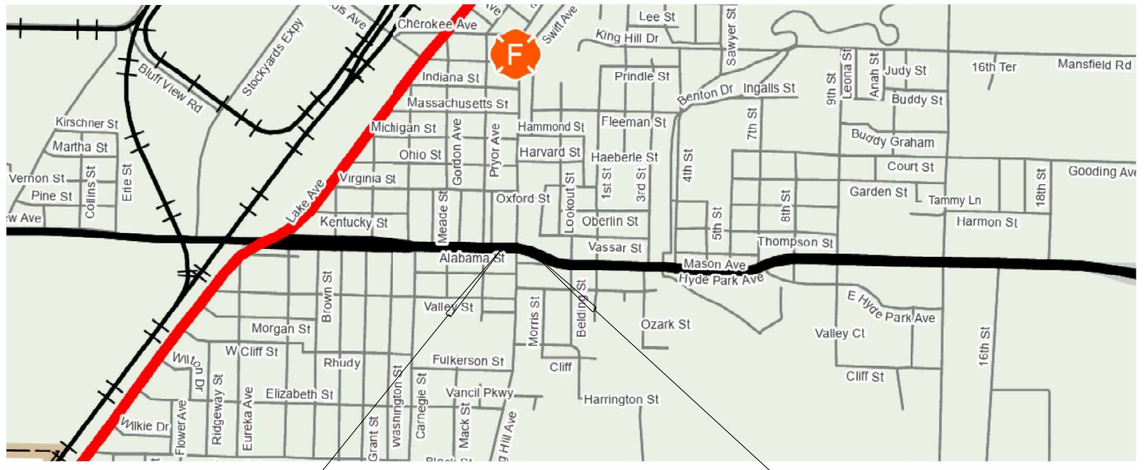
MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

PLANS FOR PROPOSED STATE HIGHWAY

BUCHANAN COUNTY



KEY MAP
LOCATION OF BUCHANAN COUNTY



BEGIN PROJECT STA. 40+90.00 — JOB NO. JNWM0139 - ROUTE 752 — END PROJECT STA. 42+30.00

SIGNALS, LIGHTING, AND INTERSECTION RECONFIGURATION

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) (1 SHEET)	2
QUANTITIES (QU) (2 SHEETS)	3
PLAN-PROFILE (PP)	4
COORDINATE POINT (CP)	5
TRAFFIC CONTROL SHEETS (TC)	6-11
SIGNALS (SG)	12-16

LENGTH OF PROJECT

ROUTE 752

BEGINNING OF PROJECT	STA. 40+90.00	
END OF PROJECT	STA. 42+30.00	
APPARENT LENGTH	140.00	FEET
EQUATIONS AND EXCEPTIONS:		
TOTAL CORRECTIONS	0.00	FEET
NET LENGTH OF PROJECT	140.00	FEET
STATE LENGTH	0.027	MILES

FOR INFORMATION ONLY
ESTIMATED DISTURBED ACRES 0 ACRES

STATE OF MISSOURI
BRIAN M. ROSENTHAL
NUMBER PE-2005022151
PROFESSIONAL ENGINEER
Brian M. Rosenthal
11/20/2026 1:02:21 PM
BRIAN M. ROSENTHAL - CIVIL
MO-PE-2005022151

DATE PREPARED
11/20/2026

ROUTE	STATE
752	MO
DISTRICT	SHEET NO.
NW	1

COUNTY
BUCHANAN

JOB NO.
JNWM0139

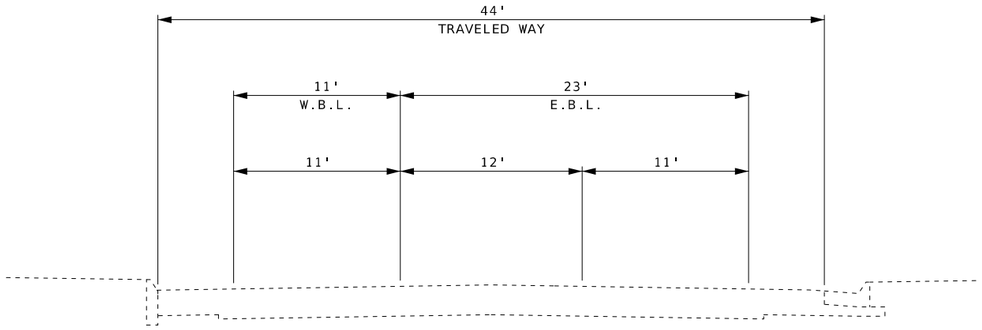
CONTRACT ID.

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)



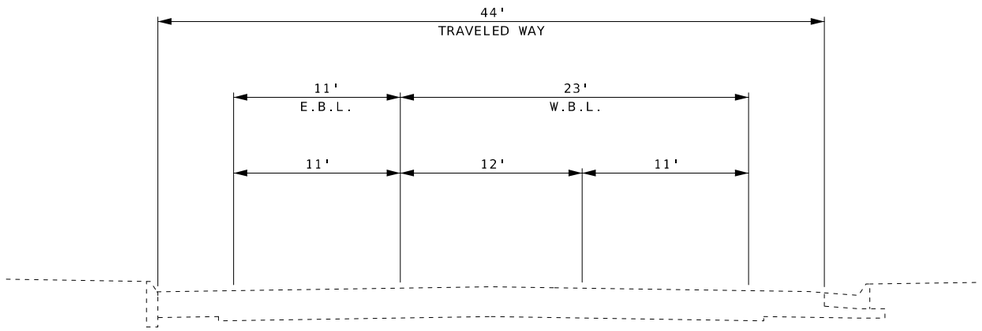
SECTION ON TANGENT
PROPOSED STRIPING TYPICAL SECTION
ROUTE 752 EB AT INTERSECTION

NOTES:

EXISTING PAVEMENT MARKING REMOVAL AND PROPOSED PAVEMENT MARKING WILL BE DONE BY OTHERS.

ROUTE 752 PAVEMENT MARKING CONFIGURATION AT THE INTERSECTION WILL CHANGE FROM AN EXISTING SHARED THROUGH/LEFT LANE & A SHARED THROUGH/RIGHT LANE TO A PROPOSED SHARED THROUGH/RIGHT LANE & A LEFT TURN LANE.

KING HILL AVE. PAVEMENT MARKING CONFIGURATION AT THE INTERSECTION WILL REAMAIN THE SAME.



SECTION ON TANGENT
PROPOSED STRIPING TYPICAL SECTION
ROUTE 752 WB AT INTERSECTION

TYPICAL SECTIONS
SHEET 1 OF 1

STATE OF MISSOURI
BRIAN M. ROSENTHAL
NUMBER PE-2005022151
PROFESSIONAL ENGINEER
Brian M. Rosenthal
11/20/2026 1:02:48 PM
BRIAN M. ROSENTHAL - CIVIL
MO-PE-2005022151

DATE PREPARED
11/20/2026

ROUTE	STATE
752	MO
DISTRICT	SHEET NO.
NW	2

COUNTY
BUCHANAN

JOB NO.
JNWM0139

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

STATION	OFFSET (L.F.)	LOCATION	QUANTITY (EACH)	REMARKS
42+14.05	51.21 RT.	SE CORNER	1	REMOVAL OF EXISTING CONTROLLER
41+97.79	32.77 RT.	SE CORNER	1	REMOVAL OF EXISTING LIGHT POLE AND FOUNDATION
41+84.38	30.51 RT.	SE CORNER	1	REMOVAL OF EXISTING SIGNAL POLE AND FOUNDATION
41+17.32	43.32 RT.	SW CORNER	1	REMOVAL EXISTING SIGNAL POLE AND FOUNDATION
41+03.62	41.30 RT.	SW CORNER	1	REMOVAL OF EXISTING PULL BOX
41+02.68	38.13 RT.	SW CORNER	1	REMOVAL OF EXISTING LIGHT POLE AND FOUNDATION
41+69.92	48.56 LT.	NE CORNER	1	REMOVAL OF EXISTING LIGHT POLE AND FOUNDATION
41+63.03	41.10 LT.	NE CORNER	1	REMOVAL OF EXISTING SIGNAL POLE AND FOUNDATION
41+69.92	48.56 LT.	NE CORNER	1	REMOVAL OF EXISTING PULL BOX
40+91.51	32.20 LT.	NW CORNER	1	REMOVAL OF EXISTING LIGHT POLE AND FOUNDATION
40+95.18	32.50 LT.	NW CORNER	1	REMOVAL OF BOTH SIGNAL HEADS ON EXISTING SIGNAL POLE
		SUBTOTAL	11	
		PAY TOTAL	LUMP SUM = 1	

CONTRACTOR FURNISHED SURVEYING AND STAKING

LUMP SUM - 1

MOBILIZATION

LUMP SUM - 1

SUMMARY OF QUANTITIES
SHEET 1 OF 2

STATE OF MISSOURI
BRIAN M. ROSENTHAL
NUMBER PE-2005022151
PROFESSIONAL ENGINEER
Brian M. Rosenthal
11/20/2026 1:03:20 PM
BRIAN M. ROSENTHAL - CIVIL
MO-PE-2005022151

DATE PREPARED
11/20/2026

ROUTE	STATE
752	MO

DISTRICT	SHEET NO.
NW	3

COUNTY
BUCHANAN

JOB NO.
JNWM0139

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	SIZE IN.	AREA SQ.FT.	QTY EACH	TOTAL AREA SQ.FT.	QTY RELOC EACH	TOTAL RELOC SQ.FT.	SIGN NO.	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	1	16.00			15L	REVERSE CURVE (SYMBOL LEFT)
WO1-4R	48X48	16.00						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	4	64.00			39	STOP AHEAD (SYMBOL)
WO3-2	48X48	16.00						YIELD AHEAD (SYMBOL)
WO3-3	48X48	16.00						SIGNAL AHEAD (SYMBOL)
WO3-4	48X48	16.00						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						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
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						UNEVEN LANES
WO8-12	48X48	16.00						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	4	64.00			2	ROAD WORK AHEAD
WO20-2	48X48	16.00						DETOUR AHEAD
WO20-3	48X48	16.00	2	32.00			20	ROAD CLOSED AHEAD
WO20-4	48X48	16.00						ONE LANE ROAD AHEAD
WO20-5R	48X48	16.00	1	16.00			5R	RIGHT LANE CLOSED AHEAD
WO20-5L	48X48	16.00	2	32.00			5L	LEFT LANE CLOSED AHEAD
WO20-6AR	48X48	16.00	1	16.00			6R	RIGHT LANE CLOSED
WO20-6AL	48X48	16.00	2	32.00			6L	LEFT LANE CLOSED
WO21-2	36X36	9.00						FRESH OIL
WO21-5	48X48	16.00	2	32.00			21	SHOULDER WORK AHEAD
WO21-5AR	48X48	16.00	2	32.00			21A	RIGHT SHOULDER CLOSED
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 NO.	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						ROAD WORK NEXT XX MILES
GO20-2	48X24	8.00						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						PILOT CAR IN USE WAIT & FOLLOW
GO20-5aP	36X24	6.00	2	12.00			54	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	8	106.00			41	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	2	24.00			4	SPEED LIMIT 30
R3-1	48X48	16.00						NO RIGHT TURN (SYMBOL)
R3-2	48X48	16.00						NO LEFT TURN (SYMBOL)
R3-3	36X36	9.00	2	18.00			10	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
R4-7a	36X48	12.00	1	12.00			63	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	10	100.00			75	ROAD CLOSED
R11-3a	60X30	12.50						ROAD CLOSED XX MILES AHEAD LOCAL TRAFFIC ONLY
R11-4	60X30	12.50	2	25.00			74	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			57	POINT OF PRESENCE
CONST-5	96X48	32.00						POINT OF PRESENCE
CONST-8	48X36	12.00	4	48.00			56	WORK ZONE NO PHONE ZONE

616-10.05 CONSTRUCTION SIGNS	TOTAL
	705

616-10.10 RELOCATED SIGNS	TOTAL

NOTE: ALL TEMPORARY TRAFFIC CONTROL ITEMS ARE INCLUDED IN PAY ITEM 616-99.01 MISC. LUMP SUM TEMPORARY TRAFFIC CONTROL, UNLESS OTHERWISE NOTED.

* ITEMS NOT INCLUDED IN MISC. LUMP TEMPORARY TRAFFIC CONTROL.

ITEM NUMBER	TOTAL QTY	EFFECTIVE: 07-01-2025 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)
6122040		WORK ZONE CRASH CUSHION (NARROW)
6122041		WORK ZONE CRASH CUSHION (RELOCATION)
6123001		TRUCK MOUNTED ATTENUATOR (TMA)
6161012		BUOYS (BOATS KEEP OUT)
6161013		BUOYS (NO WAKE)
6161014		SPECIAL SIGN ASSEMBLY (BOATS KEEP OUT)
6161020		CHANNELIZER (DRUM-LIKE)
6161022		CHANNELIZER (CONE)
6161025	100	CHANNELIZER (TRIM-LINE)
6161026		CHANNELIZER (VERTICAL PANEL)
6161030	12	TYPE 3 MOVEABLE BARRICADE
6161033		DIRECTION INDICATOR BARRICADE
6161040		FLASHING ARROW PANEL
6161047		TYPE 3 OBJECT MARKER
6161055		SEQUENTIAL FLASHING WARNING LIGHT
6161070		TUBULAR MARKER
6161095		RADAR SPEED ADVISORY SYSTEM
6161096		CHANGEABLE MESSAGE SIGN, COMMISSION FURNISHED/RETAINED
6161098A	3*	CHANGEABLE MESSAGE SIGN WITHOUT COMM. INTERFACE, CONTRACTOR FURNISHED/RETAINED
6161099		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
6173700B		TEMP. TRAFFIC BARRIER ANCHORED, CONTRACTOR FURNISHED/RETAINED
6173706		TEMP. TRAFFIC BARRIER STIFFNESS TRANSITION CONTRACTOR FURNISHED/RETAINED
6174000A		TEMP. TRAFFIC BARRIER HEIGHT TRANSITION, CONTRACTOR FURNISHED/RETAINED
6175010A		RELOCATING TEMPORARY TRAFFIC BARRIER
6175011B		RELOCATING TEMP. TRAFFIC BARRIER ANCHORED
6175013		RELOCATING TEMP. TRAFFIC BARRIER STIFFNESS
6175020A		RELOCATING TEMP. TRAFFIC BARRIER HEIGHT
6208064A		TEMPORARY RAISED PAVEMENT MARKER
9029400		TEMPORARY TRAFFIC SIGNALS
9029401		TEMPORARY TRAFFIC SIGNALS AND LIGHTING

616-99.01 - MISC. LUMP SUM TEMPORARY TRAFFIC CONTROL
LUMP SUM - 1

SUMMARY OF QUANTITIES
SHEET 2 OF 2

STATE OF MISSOURI
BRIAN M. ROSENTHAL
NUMBER PE-2005022151
PROFESSIONAL ENGINEER
Brian M. Rosenthal
11/20/2026 1:04:02 PM
BRIAN M. ROSENTHAL - CIVIL
MO-PE-2005022151

DATE PREPARED: 11/20/2026

ROUTE	STATE
752	MO
DISTRICT	SHEET NO.
NW	3

COUNTY: BUCHANAN

JOB NO.: JNWM0139

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)

SEC 31 T57N R35W

SEC 32 T57N R35W

1 STORY BLDG.

2 STORY BLDG.

SECTION LINE
KING HILL AVE.

EXISTING R/W

EXISTING R/W

UTILITIES CONTACT INFORMATION

AT&T Distribution 320 North 10th Street Saint Joseph, MO 64501 Phone: 816-214-2322	MoDOT Northwest District 3602 North Belt Highway St. Joseph, MO 64506 Phone: 816-387-2956	City of St. Joseph Sewer Division 1100 Frederick Avenue, Room 204 St. Joseph, MO 64501 Phone: 816-271-4653
Evergy 613 Atchison Street St. Joseph, MO 64501 Phone: 816-261-5833	Spire Missouri West 700 Market Street St. Louis, MO 63101 Phone: 800-582-1234	City of St. Joseph Traffic Department 1100 Frederick Avenue, Room 204 St. Joseph, MO 64501 Phone: 816-271-4653
Optimum 102 North Woodbine Road St. Joseph, MO 64506 Phone: 917-488-8739	United Fiber 401 North US Highway 71 Savannah, MO 64485 Phone: 816-351-0462	Missouri American Water Company 3524 South Leonard Road St. Joseph, MO 64503 Phone: 816-588-5507

℄ ROUTE 752

11"E

CABLE FOR DETECTORS

CABLE FOR DETECTORS

℄ ROUTE 752

CP100

CP102

CP104

BEGIN PROJECT
ROUTE 752
STA. 40+90.00

END PROJECT
ROUTE 752
STA. 42+30.00

PC STA 41+18.87

PI 42+66.07
PC 41+18.87
PT 44+09.23
Δ 23°13'46.1" (RT)
D 8°0'0.0"
L 290.37' (ARC)
T 147.21'
R 716.20'

TRAFFIC SIGNALS LEGEND

- CONTROLLER
- CONTROLLER (EXISTING)
- JUNCTION BOX
- POWER SUPPLY
- WOOD POST
- SIGNAL HEAD (OPT LIM CONV)
- SIGNAL HEAD (OPT LIM)
- SIGNAL HEAD (PEDESTRIAN)
- SIGNAL HEAD (STANDARD)
- CCTV CAMERA
- VIDEO DETECTOR
- 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
- 6 X 6 LOOP DETECTOR
- 6 X 15 LOOP DETECTOR
- 30 X 6 LOOP DETECTOR
- CONDUIT MEDIAN
- CONDUIT BRIDGE
- CONDUIT PUSHED
- CONDUIT EXISTING
- CONDUIT TRENCHED
- SPAN WIRE
- MAST ARM - TYPE A BASE
- MAST ARM - TYPE C BASE
- MAST ARM - TYPE F BASE

SCALE
0 10 20 30

NOTES:
PAVEMENT MARKING AND REMOVAL OF PAVEMENT MARKING WILL BE DONE BY OTHERS

PLAN
SHEET 1 OF 1

STATE OF MISSOURI
BRIAN M. ROSENTHAL
NUMBER PE-2005022151
PROFESSIONAL ENGINEER
11/20/2026 1:04:30 PM
BRIAN M. ROSENTHAL - CIVIL
MO-PE-2005022151

DATE PREPARED
11/19/2026

ROUTE	STATE
752	MO
DISTRICT	SHEET NO.
NW	4

COUNTY
BUCHANAN

JOB NO.
JNWM0139

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)

ALL PROJECT COORDINATES HAVE BEEN PROJECTED FROM THE MISSOURI STATE PLANE COORDINATE (SPC) SYSTEM OF 1983 USING AN AVERAGE PROJECT (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	STATE PLANE WESTERN ZONE
HORIZONTAL DATUM	NAD 83 2012
VERTICAL DATUM	NAV88
GEOID MODEL	2012 B
ELEVATIONS DETERMINED BY	DIFFERENTIAL LEVELING
PROJECT PROJECTION FACTOR	1.00000000

REFERENCE CONTROL INFORMATION

COORDINATE SYSTEM	MO STATE PLANE WEST
CONTROL STATION	MO CORS
DESIGNATION	MODOT SAVANNAH CORS
CORS_ID	MOSV
PID	DN5403
LATITUDE	39 57 15.14756
LONGITUDE	094 50 51.31707
NORTHING (M)	420441.5420
EASTING (M)	820300.0110
ZONE	2403 (MO-WEST)
PROJECT AVERAGE GRID FACTOR	1.00000000

EXAMPLE OF PROJECT COORDINATE TO S.P.C.

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

EXAMPLE: CONTROL POINT #___
N 1291203.720 X 1.0000000 = N 1291203.720
E 2686679.159 X 1.0000000 = E 2686679.159

LINEAR UNIT CONVERSION

1 METER = 3.280833333 US SURVEY FEET (USFT)

COORDINATE POINT LISTING

SHEET NO	STATION	LOCATION	OFFSET (USFT)	STATE PLANE NORTHING (US SURVEY FT)	STATE PLANE EASTING (US SURVEY FT)	STATE PLANE ELEVATION (US SURVEY FT)	DESCRIPTION
PROJECT CONTROL POINTS							
4	40+20.49	℄ EXISTING 752	30.82' RT.	1,291,203.72	2,686,679.16	849.60	CP 100 - 5/8" REBAR WITH ALUMINUM CAP
	44+30.56	℄ EXISTING 752	28.63' RT.	1,291,138.97	2,687,067.85	867.84	CP 101 - 5/8" REBAR WITH ALUMINUM CAP
	42+07.12	℄ EXISTING 752	49.41' LT.	1,291,276.78	2,686,872.16	862.93	CP 102 - 5/8" REBAR WITH ALUMINUM CAP
	42+14.90	℄ EXISTING 752	39.08' RT.	1,291,188.04	2,686,867.93	855.58	CP 104 - 5/8" REBAR WITH ALUMINUM CAP
ALIGNMENTS							
4	38+60.57			1,291,235.71	2,686,519.45		START OF ALIGNMENT
	41+18.87			1,291,233.85	2,686,777.74		PC CURVE
	42+66.07			1,291,232.79	2,686,924.94		PI CURVE
	44+09.24			1,291,173.75	2,687,059.79		PT CURVE
	44+74.91			1,291,147.41	2,687,119.96		END OF ALIGNMENT

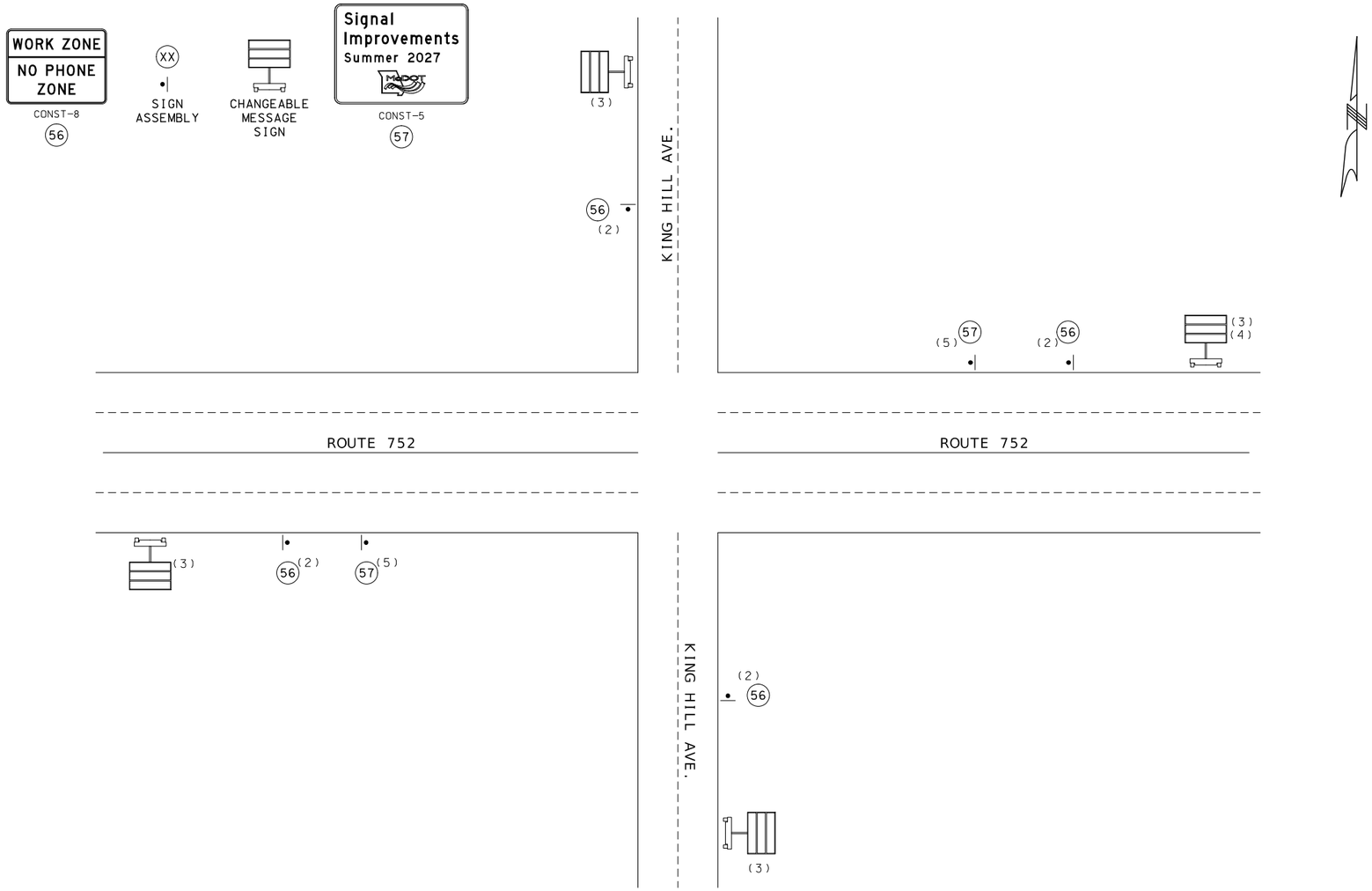
COORDINATE POINT
SHEET 1 OF 1

STATE OF MISSOURI
BRIAN M. ROSENTHAL
NUMBER PE-2005022151
PROFESSIONAL ENGINEER
Brian M. Rosenthal
11/20/2026 1:04:59 PM
BRIAN M. ROSENTHAL - CIVIL
MO-PE-2005022151

DATE PREPARED: 11/19/2026
ROUTE: 752 | STATE: MO
DISTRICT: NW | SHEET NO.: 5
COUNTY: BUCHANAN
JOB NO.: JNWM0139
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:

ANY EXISTING SIGNING THAT CONFLICTS WITH THE TRAFFIC CONTROL SIGNING SHALL BE COMPLETELY COVERED OR REMOVED.

CHANGEABLE MESSAGE SIGNS SHALL BE PLACED IN A LOCATION AS DIRECTED 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) THE 'WORK ZONE NO PHONE ZONE' SIGN IS PLACED A MINIMUM OF 500 FEET BEFORE THE ROAD WORK AHEAD SIGN.

(3) CHANGEABLE MESSAGE SIGN LOCATION IS DETERMINED BY ENGINEER.

(4) TWO CHANGEABLE MESSAGE SIGNS WILL BE INCLUDED FOR THE EAST SIDE OF INTERSECTION.

(5) SIGN CONST-5 IS PLACED IN A VISIBLE AREA WITHIN THE PROJECT LIMITS PROVIDED ITS PLACEMENT DOES NOT DISRUPT A SEQUENCE OF SIGNS. IF A VISIBLE LOCATION WITHIN THE PROJECT IS NOT AVAILABLE, THE SIGN MAY BE PLACED 500 FEET BEFORE THE SIGN CONST-8.

NOT TO SCALE

BEGINNING AND END OF PROJECT
ROUTE 752 & KING HILL AVE. INTERSECTION

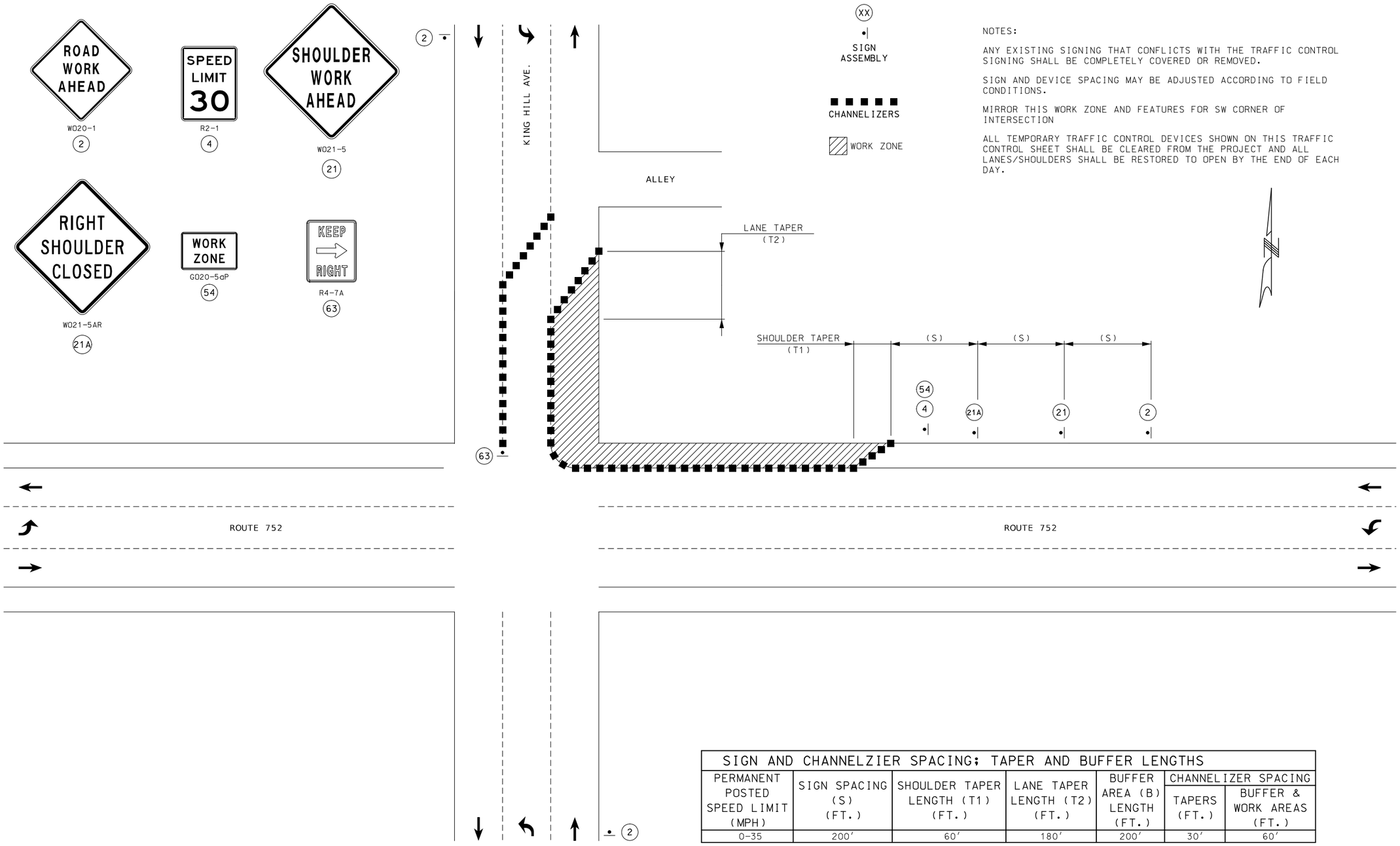
TRAFFIC CONTROL
SHEET 1 OF 6

STATE OF MISSOURI
BRIAN M. ROSENTHAL
NUMBER PE-2005022151
PROFESSIONAL ENGINEER
11/20/2026 1:05:33 PM
BRIAN M. ROSENTHAL - CIVIL
MO-PE-2005022151

DATE PREPARED: 11/20/2026
ROUTE: 752 | STATE: MO
DISTRICT: NW | SHEET NO.: 6
COUNTY: BUCHANAN
JOB NO.: JNWM0139
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:

ANY EXISTING SIGNING THAT CONFLICTS WITH THE TRAFFIC CONTROL SIGNING SHALL BE COMPLETELY COVERED OR REMOVED.

SIGN AND DEVICE SPACING MAY BE ADJUSTED ACCORDING TO FIELD CONDITIONS.

MIRROR THIS WORK ZONE AND FEATURES FOR SW CORNER OF INTERSECTION

ALL TEMPORARY TRAFFIC CONTROL DEVICES SHOWN ON THIS TRAFFIC CONTROL SHEET SHALL BE CLEARED FROM THE PROJECT AND ALL LANES/SHOULDERS SHALL BE RESTORED TO OPEN BY THE END OF EACH DAY.

SIGN AND CHANNELZIER SPACING; TAPER AND BUFFER LENGTHS						
PERMANENT POSTED SPEED LIMIT (MPH)	SIGN SPACING (S) (FT.)	SHOULDER TAPER LENGTH (T1) (FT.)	LANE TAPER LENGTH (T2) (FT.)	BUFFER AREA (B) LENGTH (FT.)	CHANNELIZER SPACING	
					TAPERS (FT.)	BUFFER & WORK AREAS (FT.)
0-35	200′	60′	180′	200′	30′	60′

NOT TO SCALE

WORK ON INTERSECTION CORNER
NE & SW CORNER OF INTERSECTION

TRAFFIC CONTROL
SHEET 2 OF 6

STATE OF MISSOURI
BRIAN M. ROSENTHAL
NUMBER PE-2005022151
PROFESSIONAL ENGINEER
11/20/2026 1:06:22 PM
BRIAN M. ROSENTHAL - CIVIL
MO-PE-2005022151

DATE PREPARED
11/20/2026

ROUTE	STATE
752	MO
DISTRICT	SHEET NO.
NW	7

COUNTY
BUCHANAN

JOB NO.
JNWM0139

CONTRACT ID.

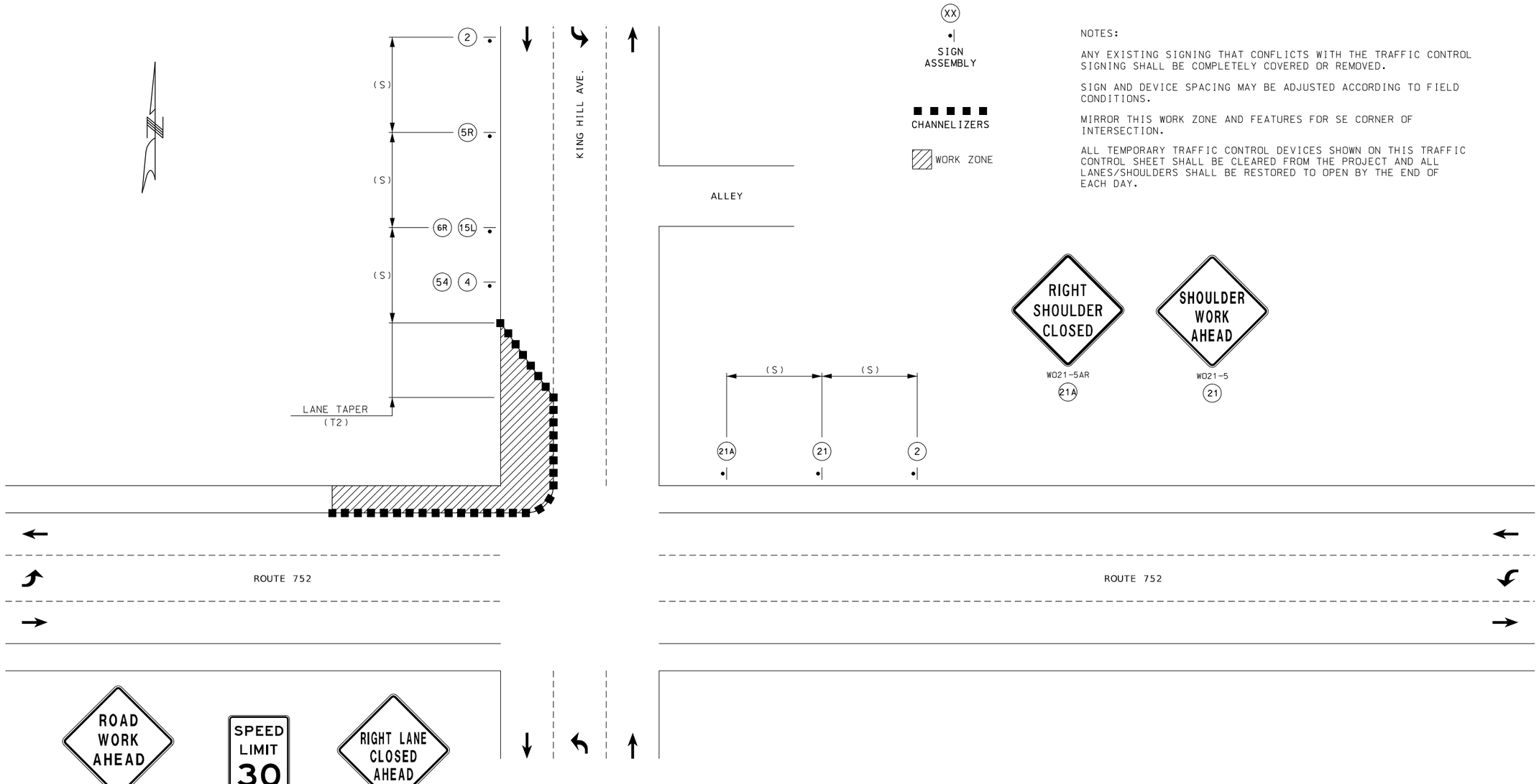
PROJECT NO.

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:

ANY EXISTING SIGNING THAT CONFLICTS WITH THE TRAFFIC CONTROL SIGNING SHALL BE COMPLETELY COVERED OR REMOVED.

SIGN AND DEVICE SPACING MAY BE ADJUSTED ACCORDING TO FIELD CONDITIONS.

MIRROR THIS WORK ZONE AND FEATURES FOR SE CORNER OF INTERSECTION.

ALL TEMPORARY TRAFFIC CONTROL DEVICES SHOWN ON THIS TRAFFIC CONTROL SHEET SHALL BE CLEARED FROM THE PROJECT AND ALL LANES/SHOULDERS SHALL BE RESTORED TO OPEN BY THE END OF EACH DAY.

WO21-5AR
21A

WO21-5
21

WO20-1
2

R2-1
4

WO20-5
5R



WO20-6A
6R



G020-5aP
54



WO1-4L
15L

SIGN AND CHANNELZIER SPACING; TAPER AND BUFFER LENGTHS						
PERMANENT POSTED SPEED LIMIT (MPH)	SIGN SPACING (S) (FT.)	SHOULDER TAPER LENGTH (T1) (FT.)	LANE TAPER LENGTH (T2) (FT.)	BUFFER AREA (B) LENGTH (FT.)	CHANNELIZER SPACING	
					TAPERS (FT.)	BUFFER & WORK AREAS (FT.)
0-35	200′	60′	180′	200′	30′	60′

NOT TO SCALE

WORK ON INTERSECTION CORNER
NW & SE CORNER OF INTERSECTION

TRAFFIC CONTROL
SHEET 3 OF 6

STATE OF MISSOURI
BRIAN M. ROSENTHAL
NUMBER PE-2005022151
PROFESSIONAL ENGINEER
11/20/2026 1:06:53 PM
BRIAN M. ROSENTHAL - CIVIL
MO-PE-2005022151

DATE PREPARED
11/20/2026

ROUTE	STATE
752	MO
DISTRICT	SHEET NO.
NW	8

COUNTY
BUCHANAN

JOB NO.
JNWM0139

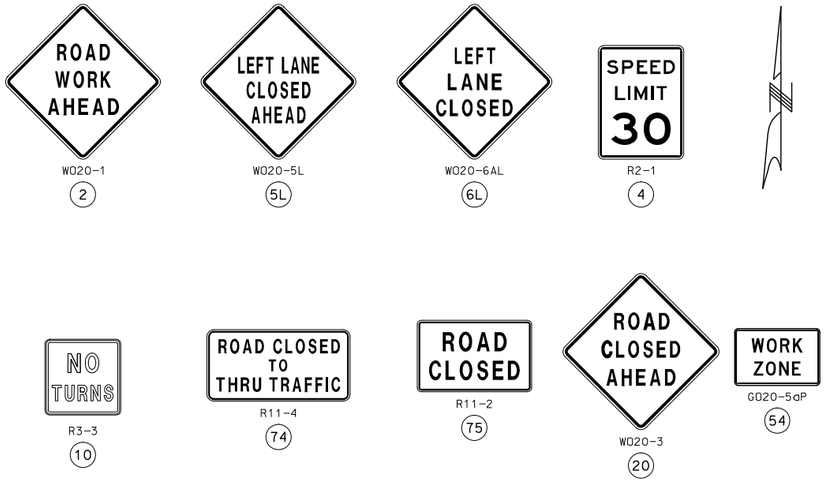
CONTRACT ID.

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)



(XX) SIGN ASSEMBLY

CHANNELIZERS

WORK ZONE

TYPE 3 MOVEABLE BARRICADE

NOTES:

ANY EXISTING SIGNING THAT CONFLICTS WITH THE TRAFFIC CONTROL SIGNING SHALL BE COMPLETELY COVERED OR REMOVED.

SIGN AND DEVICE SPACING MAY BE ADJUSTED ACCORDING TO FIELD CONDITIONS.

(1) TYPE 3 MOVEABLE BARRICADE LOCATIONS AND SIGNING FOR ROAD CLOSURE LOACTIONS WILL BE DETERMINED BY THE ENGINEER.

ALL TEMPORARY TRAFFIC CONTROL DEVICES SHOWN ON THIS TRAFFIC CONTROL SHEET SHALL BE CLEARED FROM THE PROJECT AND ALL LANES/SHOULDERS SHALL BE RESTORED TO OPEN BY THE END OF EACH DAY.

TIMEFRAME TO USE THIS TRAFFIC CONTROL SHEET AS APPROVED BY THE ENGINEER.

SIGN AND CHANNELZIER SPACING; TAPER AND BUFFER LENGTHS

PERMANENT POSTED SPEED LIMIT (MPH)	SIGN SPACING (S) (FT.)	SHOULDER TAPER LENGTH (T1) (FT.)	LANE TAPER LENGTH (T2) (FT.)	BUFFER AREA (B) LENGTH (FT.)	CHANNELIZER SPACING	
					TAPERS (FT.)	BUFFER & WORK AREAS (FT.)
0-35	200'	60'	180'	200'	30'	60'

NOT TO SCALE

WORK ON KING HILL MAST ARMS - 30 MPH
ROUTE 752

TRAFFIC CONTROL
SHEET 4 OF 6

STATE OF MISSOURI
BRIAN M. ROSENTHAL
NUMBER PE-2005022151
PROFESSIONAL ENGINEER
Brian M. Rosenthal
11/20/2026 1:07:29 PM
BRIAN M. ROSENTHAL - CIVIL
MO-PE-2005022151

DATE PREPARED
11/20/2026

ROUTE	STATE
752	MO
DISTRICT	SHEET NO.
NW	9

COUNTY
BUCHANAN

JOB NO.
JNWM0139

CONTRACT ID.

PROJECT NO.

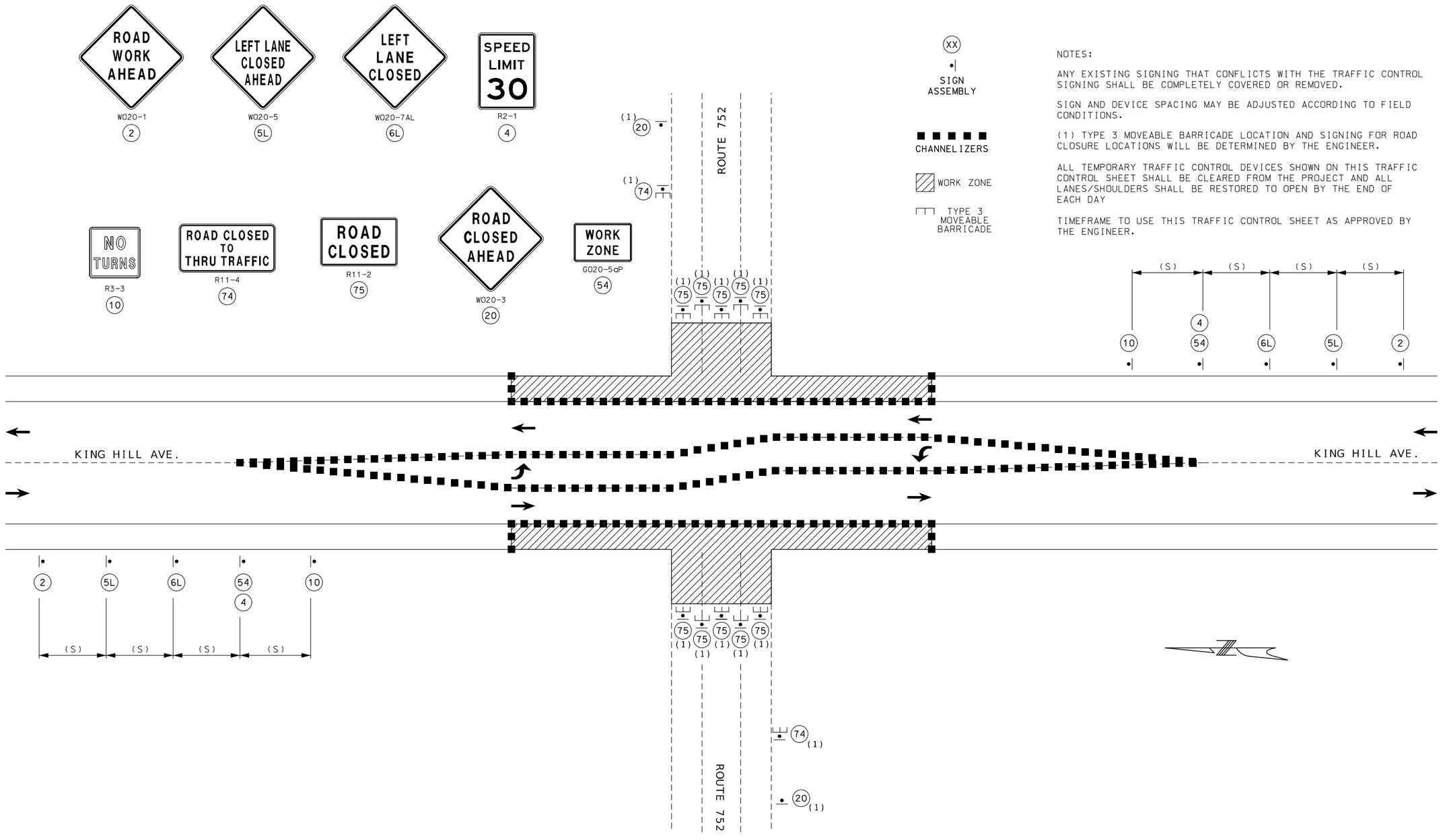
BRIDGE NO.

DESCRIPTION

DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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



NOTES:

ANY EXISTING SIGNING THAT CONFLICTS WITH THE TRAFFIC CONTROL SIGNING SHALL BE COMPLETELY COVERED OR REMOVED.

SIGN AND DEVICE SPACING MAY BE ADJUSTED ACCORDING TO FIELD CONDITIONS.

(1) TYPE 3 MOVEABLE BARRICADE LOCATION AND SIGNING FOR ROAD CLOSURE LOCATIONS WILL BE DETERMINED BY THE ENGINEER.

ALL TEMPORARY TRAFFIC CONTROL DEVICES SHOWN ON THIS TRAFFIC CONTROL SHEET SHALL BE CLEARED FROM THE PROJECT AND ALL LANES/SHOULDERS SHALL BE RESTORED TO OPEN BY THE END OF EACH DAY

TIMEFRAME TO USE THIS TRAFFIC CONTROL SHEET AS APPROVED BY THE ENGINEER.

NOT TO SCALE

WORK ON ROUTE 752 MAST ARMS – 30 MPH
KING HILL AVE.

TRAFFIC CONTORL
SHEET 5 OF 6

STATE OF MISSOURI
BRIAN M. ROSENTHAL
NUMBER PE-2005022151
PROFESSIONAL ENGINEER
11/20/2026 1:08:01 PM
BRIAN M. ROSENTHAL - CIVIL
MO-PE-2005022151

DATE PREPARED
11/20/2026

ROUTE	STATE
752	MO
DISTRICT	SHEET NO.
NW	10

COUNTY
BUCHANAN

JOB NO.
JNWM0139

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)

NOTES:

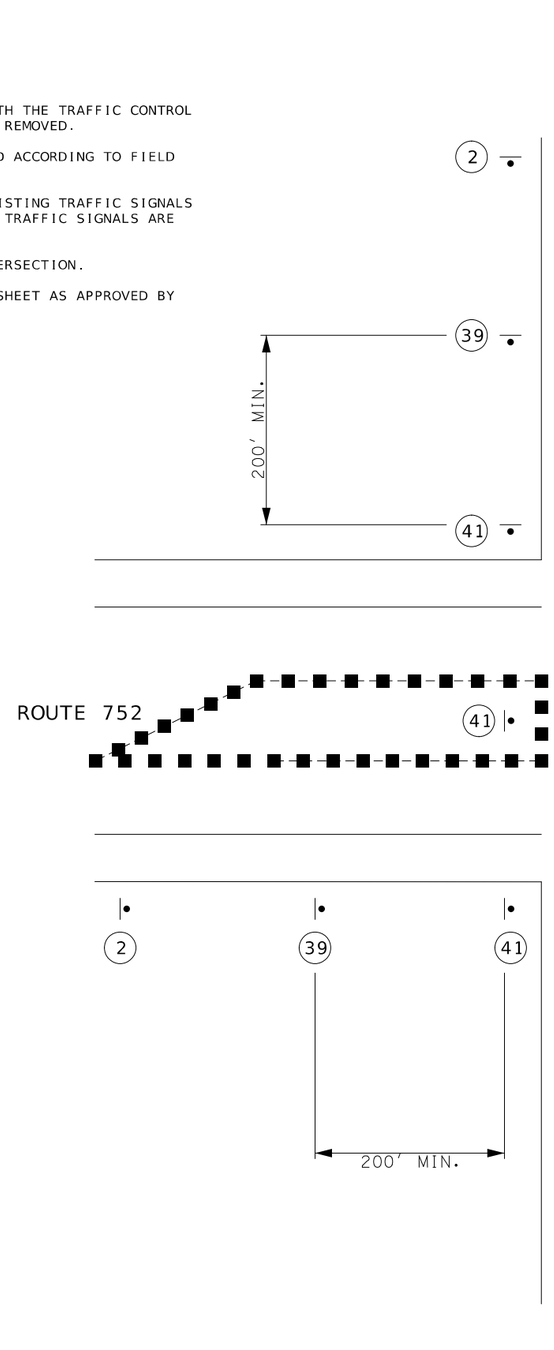
ANY EXISTING SIGNING THAT CONFLICTS WITH THE TRAFFIC CONTROL SIGNING SHALL BE COMPLETELY COVERED OR REMOVED.

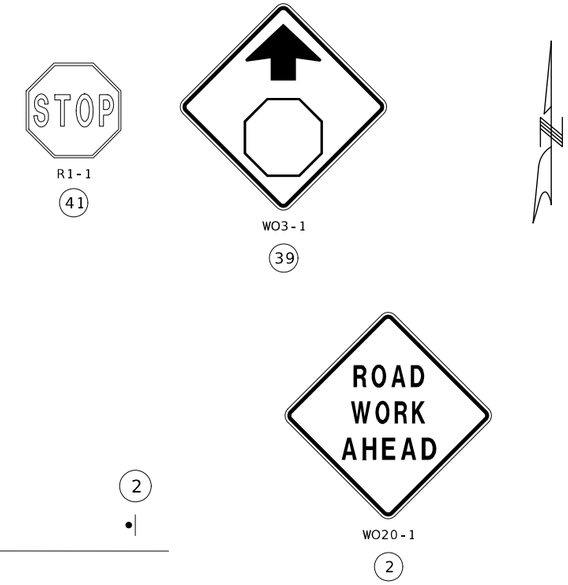
SIGN AND DEVICE SPACING MAY BE ADJUSTED ACCORDING TO FIELD CONDITION.

USE THIS TRAFFIC CONTROL SHEET WHEN EXISTING TRAFFIC SIGNALS ARE NO LONGER OPERATIONAL AND PROPOSED TRAFFIC SIGNALS ARE NOT OPERATIONAL YET.

PLACE R1-1 ON THE EDGE OF INTENDED INTERSECTION.

TIMEFRAME TO USE THIS TRAFFIC CONTROL SHEET AS APPROVED BY THE ENGINEER.





NOT TO SCALE

FOUR-WAY STOP
ROUTE 752 & KING HILL AVE. INTERSECTION

TRAFFIC CONTROL
SHEET 6 OF 6

STATE OF MISSOURI
BRIAN M. ROSENTHAL
NUMBER PE-2005022151
PROFESSIONAL ENGINEER
Brian M. Rosenthal
11/20/2026 1:08:33 PM
BRIAN M. ROSENTHAL - CIVIL
MO-PE-2005022151

DATE PREPARED
11/20/2026

ROUTE	STATE
752	MO
DISTRICT	SHEET NO.
NW	11

COUNTY
BUCHANAN

JOB NO.
JNWM0139

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: 07-01-2018

| POST NUMBER | PULL BOX NUMBER | LOCATION APPROACH | LOCATION STATION | LOCATION OFFSET | BASE A 9 | BASE A 9.5 | BASE A 10 | BASE A 10.5 | BASE A 11 | BASE A 12 | BASE F 9 | BASE F 9.5 | BASE F 10 | BASE F 10.5 | BASE F 11 | BASE F 12 | BASE C | ** CONCRETE* (CU. YDS.) | PULL BOX PREFORMED CLASS 1 | PREFORMED CLASS 2 | PREFORMED CLASS 3 | PREFORMED CLASS 5 | CONCRETE STANDARD | CONCRETE DOUBLE, TYPE A | CONCRETE DOUBLE, TYPE B | DRAIN TYPE* I | DRAIN TYPE* II A | DRAIN TYPE* II B | DRAIN TYPE* II C | POST TOP MOUNT POST 8 FT. | POST TOP MOUNT POST 15 FT. | TYPE C & CL ARM LENGTH A | A | A | A | TYPE C & CL SIGNAL SPACING B | C | D | D' | TYPE C & CL SIGN SPACING B | C | D | D' | TYPE B & BL ARM LENGTH E | K | E | K | E | K | LEFT ARM E SIGNAL SPACING F | G | H | H' | LEFT ARM E SIGN SPACING F | G | H | H' | RIGHT ARM K SIGNAL SPACING L | M | N | N' | RIGHT ARM K SIGN SPACING L | M | N | N' | INCLUDED ANGLE | LUMINAIRE BRACKET ARM* 4 FT. | 6 FT. | 8 FT. | 10 FT. | 12 FT. | 15 FT. |
|---|---|---

CONDUIT

FROM	TO	CENTER TO CENTER DISTANCE	LOOP DET.	TRENCH			PUSHED			MEDIAN			ON STRUCTURE			REMARKS
			1"	2"	3"	4"	2"	3"	4"	2"	3"	4"	2"	3"		
⋈	1	25			56											
1	2	15			13											
2	4	5			8											
2	5	11			14											
2	3	21			19											
3	13	9			7											
3	6	6			9											
3	4	69							67							
4	6	23							21							
6	7	5			8											
6	3	6			9											
4	5	32			30											
5	8	8							11							
5	12	22							20							
1	9	71							69							
9	8	19			17											
8	1	5			8											
8		18	18													
8	7	80							78							
7	11	15							13							
7	2	11			14											
7	9	10			13											
		TOTALS	18		225				279							

CABLE

FROM	TO	CENTER TO CENTER	POWER		CONTROL				VIDEO		LUMINAIRE CONTROL	LUMINAIRE POLE & BRACKET	DETECTOR		FIBER		REMARKS
			1c-#8		2c-#16	3c-#16	5c-#16	7c-#16	6pr #18	Coax.	2c-#12	1c-#10	2c-#14 LEAD-IN	1c-#14 IN-DUCT	SINGLE MODE	MULTI MODE	
⋈	1	25	288		288		288	432					288				
1	2	15	126		84		84	126					84				
2	4	5	36					36									
4	50	34						56									
4	21	22						44									
21	22	22						32									
4	41	15	90									90					
2	5	11			18		18										
5	44	0					11										
5	43	0			9												
2	3	21	81		81		81	81					108				
3	13	9											30				
3	6	6											26				
6	23	0					11										
6	24	0			9												
3	4	69	225		150		150	225					150				
4	6	23	87		29		29	87									
6	7	5			12		12										
7	24	0					11										
7	23	0			9												
6	3	6	39					39									
3	30	30						52									
3	81	21						43									
81	82	21						31									
3	44	0	90									90					
4	5	31			37		37						74				
5	8	8			15		15										
8	83	0					11										
8	84	0			9												
5	12	22											56				
12	21	19												169			
12	50	27												177			
1	9	71	462		308		308	462					308				
9	8	19	150		100		100	150					100				
8	61	29												179			
8	10	43												193			
8	1	6	39		26		26	39									
1	43	0					11										
1	44	0			9												
1	64	0					11										
1	63	0			9												
1	70	34						56									
1	41	20						42									
41	42	1						11									
1	42	0	90									90					
8	7	80	258		172		172	258					172				
7	11	15											42				
7	9	10			34		34										
9	63	0					11										
9	64	0			9												
9	84	0					11										
9	83	0			9												
7	2	11	54					54									
2	10	32						54									
2	61	21						43									
61	62	21						31									
2	42	0	90									90					
		TOTAL	2210		1430		1450	2490				360	1440	720			

STATE OF MISSOURI
BRIAN M. ROSENTHAL
NUMBER PE-2005022151
PROFESSIONAL ENGINEER
Brian M. Rosenthal
11/20/2026 1:09:34 PM
BRIAN M. ROSENTHAL - CIVIL
MO-PE-2005022151

DATE PREPARED
11/19/2026

ROUTE	STATE
752	MO

DISTRICT	SHEET NO.
NW	13

COUNTY
BUCHANAN

JOB NO.
JNWM0139

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)

SIGNALS
SHEET 2 OF 5

INTERSECTION ROUTE 752 & KING HILL AVE.

EFFECTIVE: 04-01-2018

POWER SUPPLY

LOCATION			POWER SUPPLY ASSEMBLY		CIRCUIT BREAKER TRIP RATING*				LIGHTING CONTROL * (ON POWER SUPPLY)		SERVICE POLE	
					CONTROLLER		POWER SUPPLY DISCONNECT					
APPROACH	STATION	OFFSET	DRAWING 902.15	DRAWING	AUXILIARY BREAKER	CONT & SIGNAL LAMPS	MAIN BREAKER		120 VOLT CONTROL CABINET	MAIN BREAKER	CONTRACT FURNISH	UTILITY COMPANY
							SIGNALS	LIGHTING				
			Type		15 Amps	· Amps	Amps	Amps		Amps	Cl. Ft.	
			Type		15 Amps	Amps	Amps	Amps		Amps	Cl. Ft.	

CONTROLLER ASSEMBLY AND AUXILIARY EQUIPMENT

LOCATION			SYSTEM MASTER (CLOSED LOOP)		ACTUATED		ON-OFF* SWITCH TYPE		COORDINATION INTERFACE *						TIME * CLOCK	NEMA CABINET TYPE *			170 CABINET TYPE *		170 SOFTWARE *	
									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
EB 752	42+04.82	49.77' RT.			1							1					1					

NEMA DETECTOR ASSIGNMENT

		CARD POSITION							
		1	2	3	4	5	6	7	8
CHANNEL	1								
	2								

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

NEMA LOAD SWITCH ASSIGNMENTS

1	2	3	4	5	6	7	8	9	10	11	12

SIGNAL SIGNS

QUANTITY	MUTCD SIGN NUMBER	SIZE	AREA	SIGN TOTAL AREA ITEM NO. 90208.33	SIGNAL SIGN MOUNTING HARDWARE ITEM NO. 90208.34
		INCHES	SQ.FT.	SQ.FT.	EA.
	R10-10L	24 X 30	5.0		
	R10-10R	24 X 30	5.0		
	R3-5L	30 X 36	7.5		
	R3-5R	30 X 36	7.5		
	R3-5A	30 X 36	7.5		
	R3-6L	30 X 36	7.5		
	R3-6R	30 X 36	7.5		
	R3-2	24 X 24	4.0		
	R3-1	24 X 24	4.0		
	R3-3	24 X 24	4.0		
	D3-1 ***	84 X 18	10.5		
2	D3-1B ***	66 X 18	8.3	16.5	2
8	R10-3E	9 X 15	0.9	7.2	8
	R10-11A	24 X 30	5.0		
	R10-13	36 X 24	6.0		
4	R10-27A	30 X 36	7.5	30	4
			SUBTOTAL	53.7	14
			TOTAL	54	14

DETECTOR SCHEDULE

DETECTOR NUMBER	APPROACH	TYPE				
		PUSH BUTTON	INDUCTION LOOP (2)			VIDEO
			STANDARD	DELAY/ EXTEND *	CALL UNIT *	
43	EB 752	1				
24	NB KING HILL AVE.	1				
23	SB KING HILL AVE.	1				
84	EB 752	1				
83	WB 752	1				
64	SB KING HILL AVE.	1				
63	NB KING HILL AVE.	1				
44	WB 752	1				
10	IN CONTROLLER		1			
61	IN CONTROLLER		1			
50	IN CONTROLLER		1			
21	IN CONTROLLER		1			
TOTAL		8	4			

* ITEMS FOR WHICH SEPARATE PAYMENT WILL NOT BE MADE.

*** USE D3-1 FOR ONE LINE. USE D3-1B FOR TWO LINE.

(1) MoDOT "D" PLUG SHALL BE WIRED INTO ALL NEMA CONTROLLERS WITH 7C HARDWIRE INTERCONNECT.

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

SIGNALS
SHEET 3 OF 5

ROUTE 752 & KING HILL AVE.
INTERSECTION

D-37C

STATE OF MISSOURI
BRIAN M. ROSENTHAL
NUMBER PE-2005022151
PROFESSIONAL ENGINEER
Brian M. Rosenthal
11/20/2026 1:10:03 PM
BRIAN M. ROSENTHAL - CIVIL
MO-PE-2005022151

DATE PREPARED
11/20/2026

ROUTE	STATE
752	MO
DISTRICT	SHEET NO.
NW	14

COUNTY
BUCHANAN

JOB NO.
JNWM0139

CONTRACT ID.

PROJECT NO.

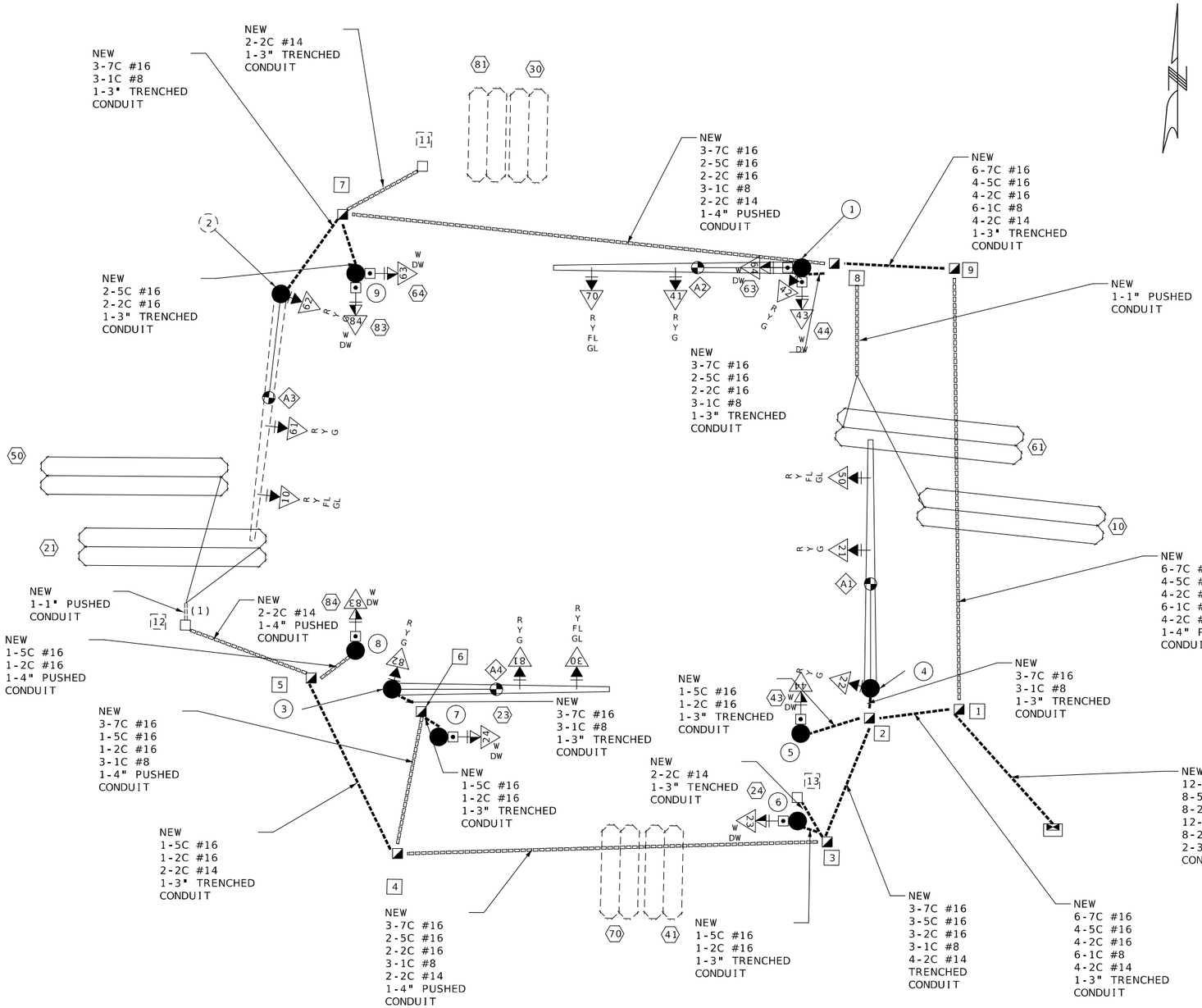
BRIDGE NO.

NO.	DESCRIPTION	DATE

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

EFFECTIVE: 12-01-2017

WIRING DIAGRAM



LEGEND

3"	CONDUIT CONTAINING CABLE WITH SIZE
	CABLE
X-Xc	MULTI-CONDUCTOR CABLE #16 AWG (UNLESS OTHERWISE INDICATED)
LIC	#14 AWG DETECTOR LEAD-IN CABLE (2C TWISTED SHIELDED)
X	PULL BOX WITH NUMBER
X	POST WITH NUMBER
X	POST WITH MAST ARM
X	POST WITH MAST ARM AND LUMINAIRE
X	DETECTOR WITH NUMBER
X	SIGNAL HEAD WITH NUMBER
	SIGNAL CONTROLLER
	POWER SUPPLY
	LIGHTING CONTROLLER
	LOOP DETECTOR

NOTE: (1) USE EXISTING CONDUIT FROM PULL BOX 12 FOR WIRING LOOP DETECTOR 21 AND 50

SIGNALS
SHEET 4 OF 5

ROUTE 752 & KING HILL AVE.

INTERSECTION

D-37D

STATE OF MISSOURI
BRIAN M. ROSENTHAL
NUMBER PE-2005022151
PROFESSIONAL ENGINEER
11/20/2026 1:10:30 PM
BRIAN M. ROSENTHAL - CIVIL
MO-PE-2005022151

DATE PREPARED
11/19/2026

ROUTE	STATE
752	MO
DISTRICT	SHEET NO.
NW	15

COUNTY
BUCHANAN

JOB NO.
JNWM0139

CONTRACT ID.

PROJECT NO.

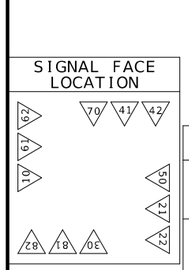
BRIDGE NO.

DESCRIPTION	DATE

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

EFFECTIVE: 12-01-2017

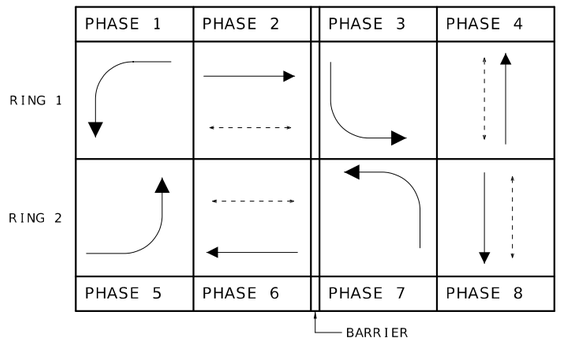
SIGNAL FACE LOCATION



TRAFFIC PHASING AND COLOR SEQUENCE - ACTUATED CONTROLLERS

	PHASE 1	PHASE 2	PHASE 3	PHASE 4	PHASE 5	PHASE 6	PHASE 7	PHASE 8	PED Ø OVERLAP	PED Ø OVERLAP	PED Ø OVERLAP	PED Ø OVERLAP
FACE NUMBERS	10	21 22	30	41 42	50	61 62	70	81 82				
SIGNAL INDICATIONS R	R	R R	R	R R	R	R R	R	R R				
SIGNAL INDICATIONS Y	Y	Y Y	Y	Y Y	Y	Y Y	Y	Y Y				
SIGNAL INDICATIONS FYL	FYL		FYL		FYL		FYL					
SIGNAL INDICATIONS G		G G		G G		G G		G G				
SIGNAL INDICATIONS GL	GL		GL		GL		GL					
DETECTOR ASSIGNMENTS												
DETECTOR ASSIGNMENTS (PEDS. ONLY)												
OVERLAP PARENT PHASES												

FACE NUMBERS
SIGNAL INDICATIONS R
SIGNAL INDICATIONS Y
SIGNAL INDICATIONS FYL
SIGNAL INDICATIONS G
SIGNAL INDICATIONS
DETECTOR ASSIGNMENTS



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
W — WALK
DW — DON'T WALK
R/W — RIGHT OF WAY INTERVAL
YRt — YELLOW RIGHT ARROW
RT. — GREEN RIGHT ARROW
LY-YL — YELLOW LEFT ARROW
L — GREEN LEFT ARROW
S — GREEN STRAIGHT AHEAD ARROW
G — CIRCULAR GREEN
Y — CIRCULAR YELLOW
R — CIRCULAR RED
RL — RED LEFT ARROW
Ø — TRAFFIC PHASE
AO — ALL OTHERS
FR — FLASHING RED
FY — FLASHING CIRCULAR YELLOW
FYL — FLASHING YELLOW LEFT ARROW

FLASHING OPERATION	
1, 2, 3, 4, 5, 6, 7, & 8	FR

CONTROLLER TYPE	NEMA

TRAFFIC SIGNAL CONTROL OPERATION

INTERSECTION OF 752 AND KING HILL AVE.

SIGNALS
SHEET 5 OF 5

D-38A

STATE OF MISSOURI
BRIAN M. ROSENTHAL
NUMBER PE-2005022151
PROFESSIONAL ENGINEER
Brian M. Rosenthal
11/20/2026 1:10:59 PM
BRIAN M. ROSENTHAL - CIVIL
MO-PE-2005022151

DATE PREPARED
11/19/2026

ROUTE	STATE
752	MO
DISTRICT	SHEET NO.
NW	16

COUNTY
BUCHANAN

JOB NO.
JNWM0139

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