

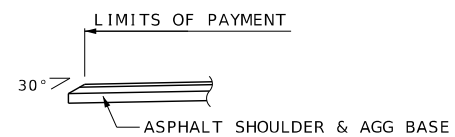
* TYPE A2
(OPTIONAL) SHOULDERS:
BITUMINOUS PAVEMENT:
1 3/4" SURFACE (PG 64-22, BP-1)
4" BASE (PG 64-22)
6 3/4" INCIDENTAL BASE
6" TYPE 5 AGG FOR BASE

PCC PAVEMENT:

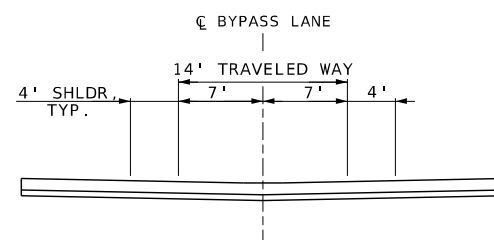
5 3/4" PCC PAVEMENT
4 1/4" INCIDENTAL BASE
6" TYPE 5 AGG FOR BASE

ESTIMATE FACTORS

BITUMINOUS PAVEMENT MIXTURE PG 70-22 (SP125C)	= 1.927	TON/CY
BITUMINOUS PAVEMENT MIXTURE PG 64-22 (SP250C)	= 1.946	TON/CY
BITUMINOUS PAVEMENT MIXTURE PG 64-22 (BP-1)	= 1.948	TON/CY
BITUMINOUS PAVEMENT MIXTURE PG 64-22 (BASE)	= 1.943	TON/CY
TACK COAT	= 0.05	GAL/SY



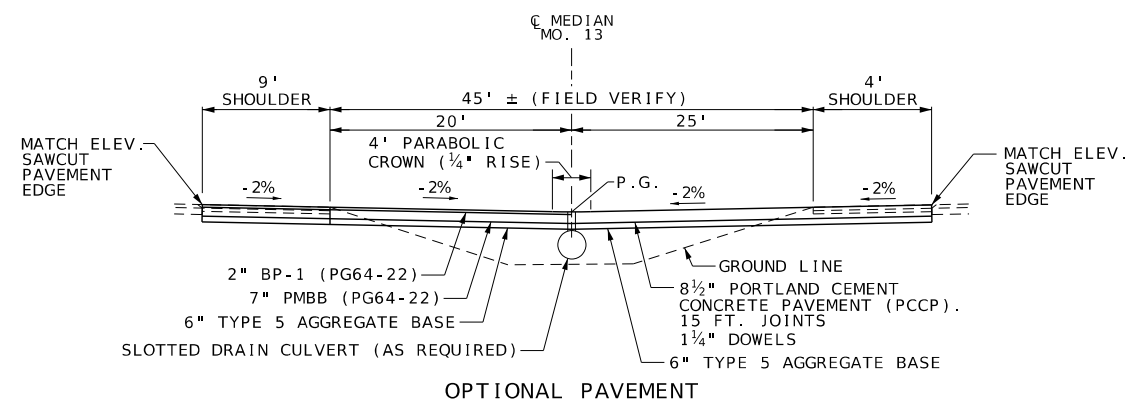
SAFETY EDGE - ASPHALT SHOULDER



PROPOSED SECTION - BYPASS LANE

MEDIAN BETWEEN N.B. & S.B. LANES

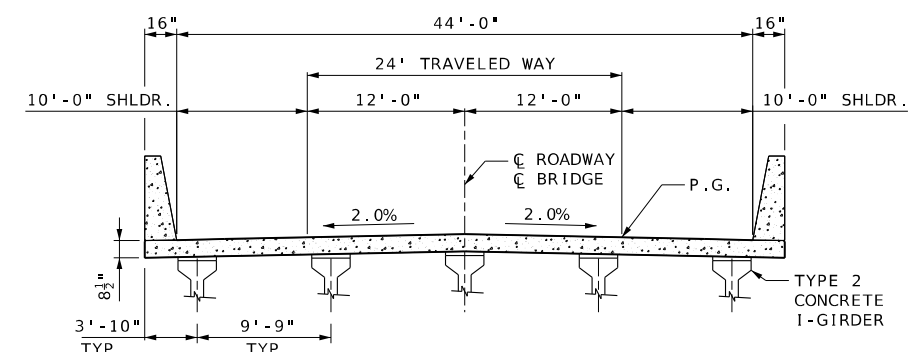
NORTH CROSSOVER	- STA. 0+00.00 TO STA. 9+48.36
SOUTH CROSSOVER	- STA. 0+00.00 TO STA. 9+48.36



PERMANENT CROSSOVER

MEDIAN BETWEEN N.B. & S.B. LANES

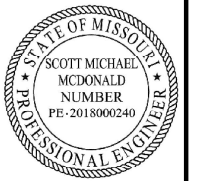
NORTH CROSSOVER -	STA. 0+00.00 TO STA. 9+48.36
SOUTH CROSSOVER -	STA. 0+00.00 TO STA. 9+48.36



PROPOSED BRIDGE SECTION

MO. 13 - BRIDGE A9573
STA. 183+53.14 TO STA. 185+00.86

TYPICAL SECTION
SHEET 1 OF 1



THIS SHEET HAS BEEN
SIGNED, SEALED AND DATED
ELECTRONICALLY.

DATE PREPARED

12/1/2025

ROUTE	STATE
100	100

13	MO
----	----

DISTRICT	SHEET NO.
SW	2

SW	2
COUNTY	

COUNTY
POLK

PULK
JOB NO.

JOB NO.
ISR0049

CONTRACT ID.

CONCLUSIONS

PROJECT NO.

BRIDGE NO.

A9573

[illegible]MISSOURI HIGHWAYS AND TRANSPORTATION
COMMISSION

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



3788 N Ash Avenue
Kansas City, Missouri 64157
816-781-6182 816-781-0643 (FAX)
Certificate of Authority No. 2002006347

TEMPORARY PAVEMENT MARKING						
STATION	LOCATION	SIDE	4" SOLID YELLOW TEMPORARY PAVEMENT MARKING PAINT (LF)	4" SOLID WHITE TEMPORARY PAVEMENT MARKING PAINT (LF)	PAVEMENT MARKING REMOVAL (LF)	REMARKS
168+76 TO 177+12	MO. 13	LT/RT	836		836	WEST CROSSOVER
160+35 TO 168+75	MO. 13	RT	840		840	LANE TAPER
168+75 TO 177+12	MO. 13	RT	837		837	℄ ROAD
177+12 TO 189+78	MO. 13	RT	2532		2532	DOUBLE SOLID YELLOW ℄
189+78 TO 198+08	MO. 13	LT/RT	834		834	WEST SIDE CROSSOVER
189+78 TO 198+83	MO. 13	RT	905		905	EDGE LINE MARKING
198+83 TO 199+83	MO. 13	RT	100		100	LANE TAPER
168+76 TO 178+21	MO. 13	LT/RT		949	949	EAST SIDE CROSSOVER
178+21 TO 188+63	MO. 13	RT		1042	1042	EDGE LINE EAST SIDE
188+63 TO 198+08	MO. 13	LT/RT		949	949	EAST SIDE CROSSOVER
198+08 TO 206+48	MO. 13	LT		840	840	EDGE LINE MARKING ℄ ROAD
206+48 TO 214+88	MO. 13	LT		840	840	LANE TAPER
TOTAL			6884	4620		
PAY TOTAL			11504		11504	

CLEARING & GRUBBING				
STATION	LOCATION	SIDE	QUANTITY (AC)	REMARKS
168+76 TO 178+21	MO. 13	LT/RT	1.0	EXISTING MEDIAN
181+25 TO CREEK	MO. 13	LT/RT	0.3	EXISTING MEDIAN, EAST SIDE EMBANKMENT
CREEK TO 188+28	MO. 13	LT/RT	0.5	EXISTING MEDIAN, EAST SIDE EMBANKMENT
188+63 TO 198+08	MO. 13	LT/RT	1.0	EXISTING MEDIAN
TOTAL			2.8	
PAY TOTAL			3	

REMOVAL OF IMPROVEMENTS				
STATION	LOCATION	SIDE	QUANTITY (LS)	REMARKS
183+60 TO 183+80	MO. 13	LT	-	REMOVE EXISTING APPROACH SLAB
184+76 TO 184+96	MO. 13	LT	-	REMOVE EXISTING APPROACH SLAB
181+25 TO 183+80	MO. 13	LT	-	REMOVE EXISTING PAVEMENT
184+76 TO 188+28	MO. 13	LT	-	REMOVE EXISTING PAVEMENT
175+72	MO. 13	LT	-	REMOVE EXISTING SIGNS (1 EACH)
183+46	MO. 13	LT		REMOVE EXISTING GUARDRAIL
183+73	MO. 13	LT		REMOVE EXISTING GUARDRAIL
184+82	MO. 13	LT		REMOVE EXISTING GUARDRAIL
184+71	MO. 13	LT		REMOVE EXISTING GUARDRAIL
171+00	MO. 13	RT		REMOVE EXISTING 18" Ø FLARED END SECTION
PAY TOTAL			1	

TYPE 5 AGGREGATE FOR BASE (6 IN. THICK)				
STATION	LOCATION	SIDE	QUANTITY (SY)	REMARKS
168+76 TO 178+21	MO. 13	LT/RT	3911	NORTH CROSSOVER
181+25 TO 183+11	MO. 13	LT	908	ROADWAY
185+43 TO 188+28	MO. 13	LT	1392	ROADWAY
188+63 TO 198+08	MO. 13	LT/RT	3963	SOUTH CROSSOVER
PAY TOTAL			10174	

SURFACE-MOUNT DELINEATOR POST				
STATION	LOCATION	SIDE	36" YELLOW (EA)	REMARKS
171+25 TO 175+65	MO. 13	LT	23	NORTH CROSSOVER
170+85 TO 176+25	MO. 13	LT	28	NORTH CROSSOVER
191+06 TO 195+46	MO. 13	LT	23	SOUTH CROSSOVER
190+46 TO 195+86	MO. 13	LT	28	SOUTH CROSSOVER
TOTAL			102	
PAY TOTAL			102	

TYPE 5 AGGREGATE FOR BASE (4 IN. THICK)				
STATION	LOCATION	SIDE	QUANTITY (SY)	REMARKS
183+11 TO 183+34	MO. 13	LT	105	CONCRETE APPROACH PAVEMENT
185+20 TO 185+43	MO. 13	LT	105	CONCRETE APPROACH PAVEMENT
PAY TOTAL			210	

MGS BRIDGE APPROACH TRANSITION SECTION (REGULAR/NO CURB)				
STATION	LOCATION	SIDE	QUANTITY (EA)	REMARKS
185+16	MO. 13	LT	1	LENGTH = 37.5'
185+00	MO. 13	LT	1	LENGTH = 37.5'
PAY TOTAL			2	

MGS GUARDRAIL				
STATION	LOCATION	SIDE	QUANTITY (LF)	REMARKS
185+54	MO. 13	LT	200.0	16 SECTIONS
185+38	MO. 13	LT	200.0	16 SECTIONS
TOTAL			400.0	
PAY TOTAL			400	

TYPE A CRASHWORTHY END TERMINAL (MASH)				
STATION	LOCATION	SIDE	QUANTITY (EA)	REMARKS
188+54	MO. 13	LT	1	LENGTH = 50'
188+38	MO. 13	LT	1	LENGTH = 50'
PAY TOTAL			2	

PIPE CULVERTS						
STATION	LOCATION	SIDE	18 IN. Ø CMP (LF)	18 IN. Ø CMP FLARED END SECTION (EA)	18 IN. Ø CMP SLOTTED DRAIN (LF)	REMARKS
172+05 TO 174+95	MO. 13	℄			280	NORTH CROSSOVER
171+30 TO 172+05	MO. 13	℄	74	1		NORTH CROSSOVER
191+92 TO 194+72	MO. 13	℄			280	SOUTH CROSSOVER
191+08 TO 191+92	MO. 13	℄	84	1		SOUTH CROSSOVER
171+00	MO. 13	℄	4	1		EXISTING PIPE EXTENSION
174+95 TO 175+95	MO. 13	℄	100	1		NORTH CROSSOVER
194+72 TO 195+68	MO. 13	℄	96	1		SOUTH CROSSOVER
PAY TOTAL			358	5	560	

TYPE A2 SHOULDER				
STATION	LOCATION	SIDE	QUANTITY (SY)	REMARKS
181+25 TO 183+11	MO. 13	LT	330.1	SEE STD. PLAN 401.00
185+43 TO 188+25	MO. 13	LT	506.1	ROADWAY SHOULDER
PAY TOTAL			836.2	

OPTIONAL PAVEMENT					
STATION	LOCATION	SIDE	ROUTE 13 QUANTITY (SY)	PERMANENT CROSSOVER QUANTITY (SY)	REMARKS
168+76 TO 178+21	MO. 13	LT/RT		3911	NORTH CROSSOVER
181+25 TO 183+11	MO. 13	LT	578		ROADWAY
185+43 TO 188+28	MO. 13	LT	886		ROADWAY
188+63 TO 198+08	MO. 13	LT/RT		3963	SOUTH CROSSOVER
PAY TOTAL			1464	7874	

QUANTITIES
SHEET 1 OF 3



THIS SHEET HAS BEEN
SIGNED, SEALED AND DATED
ELECTRONICALLY.

DATE PREPARED
12/1/2025

ROUTE 13 STATE MO
DISTRICT SW SHEET NO. 3

COUNTY
POLK

JOB NO.
JSR0049

CONTRACT ID.

PROJECT NO.

BRIDGE NO.
A9573

DESCRIPTION	DATE								

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

VEENSTRA & KIMM INC.
A Kleinfelder Company
9788 N Ash Avenue
Kansas City, Missouri 64157
816-781-0643 (FAX)
Certificate of Authority No. 2002006347

EARTHWORK								
STATION	LOCATION	SIDE	UNCLASSIFIED EXCAVATION (CY)	COMPACTING EMBANKMENT (CY)	COMPACTING IN CUT (STA)	SUBGRADE COMPACTION (6") (100 FT)	SUBGRADE SCARIFYING (100 FT)	REMARKS
188+63 TO 198+06	MO. 13	LT/RT	886	761		18.9	18.9	PHASE 1; 945' x 2 SHOULDERS. EXCESS CUT = 125 CY
168+76 TO 178+22	MO. 13	LT/RT	771	887		18.9	18.9	PHASE 1; 945' x 2 SHOULDERS. USE 116 CY EXCESS FROM SOUTH CROSSOVER
181+25 TO 183+46	MO. 13	LT	543	73	2.2			PHASE 2; EXCESS CUT = 470 CY
185+08 TO 188+25	MO. 13	LT	798	215	3.2			PHASE 2; EXCESS CUT = 583 CY
BRIDGE/CREEK	MO. 13	LT	1261		1.5			PHASE 2; EXCESS CUT = 1261 CY
PAY TOTAL			4259	1936	6.9	37.8	37.8	
NOTES:								
- NO SOIL PROPERTY DATA AVAILABLE. SHRINK/SWELL FACTOR WAS NOT USED IN QUANTITIES SHOWN. UNSUITABLE AND EXCESS EXCAVATED MATERIAL SHALL BE REMOVED FROM PROJECT SITE BY CONTRACTOR. DISPOSAL SITE SHALL BE APPROVED BY ENGINEER. NO DIRECT PAY.								
- LOCATION FOR STOCKPILE OF EXCAVATED MATERIAL TO BE APPROVED BY ENGINEER.								

ADDITIONAL MOBILIZATION FOR SEEDING	
LUMP SUM	1

CONTRACTOR FURNISHED SURVEYING & STAKING	
LUMP SUM	1

MOBILIZATION	
LUMP SUM	1

TEMPORARY EROSION CONTROL							
STATION	LOCATION	SIDE	SILT FENCE (LF)	DROP INLET CHECK (EA)	SEDIMENT REMOVAL (CY)	ALTERNATE DITCH CHECK (LF)	REMARKS
168+76 TO 170+22	MO. 13	LT/RT	295		3.0		
176+59 TO 178+20	MO. 13	LT/RT	325		3.3		
188+64 TO 190+44	MO. 13	LT/RT	365		3.7		
196+30 TO 198+07	MO. 13	LT/RT	360		3.6		
181+25 TO CREEK	MO. 13	LT/RT	680		6.8		
CREEK TO 188+28	MO. 13	LT/RT	840		8.4		
185+00	MO. 13	LT/RT		1	1.0		
189+75	MO. 13	LT/RT			1.0	33	
190+85	MO. 13	LT/RT			1.0	10	
195+90	MO. 13	LT/RT			1.0	10	
196+85	MO. 13	LT/RT			1.0	30	
170+35	MO. 13	LT/RT			1.0	16	
170+90	MO. 13	LT/RT			1.0	10	
176+25	MO. 13	LT/RT			1.0	10	
176+75	MO. 13	LT/RT			1.0	27	
TOTAL			2865	1	37.8	146	
PAY TOTAL			2865	1	38	146	

SEEDING/MULCHING						
STATION	LOCATION	SIDE	SEEDING (AC)	MULCHING (AC)	TEMPORARY SEEDING (AC)	REMARKS
168+76 TO 178+21	MO. 13	LT/RT	0.5	0.5	0.5	NORTH CROSSOVER
181+25 TO 188+28	MO. 13	LT/RT	0.8	0.8	0.8	ROADWAY
188+63 TO 198+08	MO. 13	LT/RT	0.5	0.5	0.5	SOUTH CROSSOVER
TOTAL			1.8	1.8	1.8	
PAY TOTAL			1.8	1.8	1.8	

PERMANENT EROSION CONTROL									
STATION	LOCATION	SIDE	FURNISHING TYPE 1 ROCK DITCH LINER (CY)	PLACING TYPE 1 ROCK DITCH LINER (CY)	FURNISHING TYPE 2 ROCK BLANKET (CY)	PLACING TYPE 2 ROCK BLANKET (CY)	PERMANENT EROSION CONTROL GEOTEXTILE (SY)	ROCK LINING (CY)	REMARKS
183+26 TO CREEK	MO. 13	LT			354	354	609		2' ROCK BLANKET
CREEK TO 185+28	MO. 13	LT			337	337	590		2' ROCK BLANKET
183+46 TO 183+49	MO. 13	LT	3.3	3.3			10		DRAIN FLUME
183+30 TO 183+33	MO. 13	LT	2.1	2.1			6		DRAIN FLUME
185+21 TO 185+24	MO. 13	LT	5.0	5.0			15		DRAIN FLUME
185+05 TO 185+08	MO. 13	LT	2.2	2.2			7		DRAIN FLUME
171+30	MO. 13	℄						1.8	1'x4'x12'
175+95	MO. 13	℄						3.6	1'x8'x12'
191+08	MO. 13	℄						1.8	1'x4'x12'
195+68	MO. 13	℄						1.8	1'x4'x12'
TOTAL			12.6	12.6	691	691	1237	9.0	
PAY TOTAL			13	13	691	691	1237	9	

PERMANENT PAVEMENT MARKING					
STATION	LOCATION	SIDE	6" SOLID YELLOW CLASS 2 PAINT TYPE L BEADS (LF)	6" SOLID WHITE CLASS 2 PAINT TYPE L BEADS (LF)	REMARKS
181+25 TO 188+28	MO. 13	LT		176	INTERMITTENT CENTERLINE
181+25 TO 188+28	MO. 13	LT		703	SOLID EDGE LINE (EAST)
181+25 TO 188+28	MO. 13	LT	703		SOLID EDGE LINE (WEST)
PAY TOTAL			703	879	

RUMBLE STRIPS FOR OPTIONAL PAVEMENT				
STATION	LOCATION	SIDE	EDGE LINE RUMBLE STRIP (STA)	REMARKS
181+25 TO 183+39	MO. 13	LT	2.2	LEFT EDGE LINE
181+25 TO 183+28	MO. 13	LT	2.0	RIGHT EDGE LINE
185+26 TO 188+28	MO. 13	LT	3.0	LEFT EDGE LINE
185+15 TO 188+28	MO. 13	LT	3.1	RIGHT EDGE LINE
PAY TOTAL			10.3	

CONCRETE APPROACH PAVEMENT				
STATION	LOCATION	SIDE	QUANTITY (SY)	REMARKS
183+11 TO 183+34	MO. 13	LT	112.5	SEE STD. PLAN 504.00
185+20 TO 185+43	MO. 13	LT	112.5	SEE STD. PLAN 504.00
PAY TOTAL			225.0	

QUANTITIES
SHEET 2 OF 3



THIS SHEET HAS BEEN
SIGNED, SEALED AND DATED
ELECTRONICALLY.

DATE PREPARED 12/1/2025	
ROUTE 13	STATE MO
DISTRICT SW	SHEET NO. 3
COUNTY POLK	
JOB NO. JSR0049	
CONTRACT ID.	

PROJECT NO.	
BRIDGE NO. A9573	

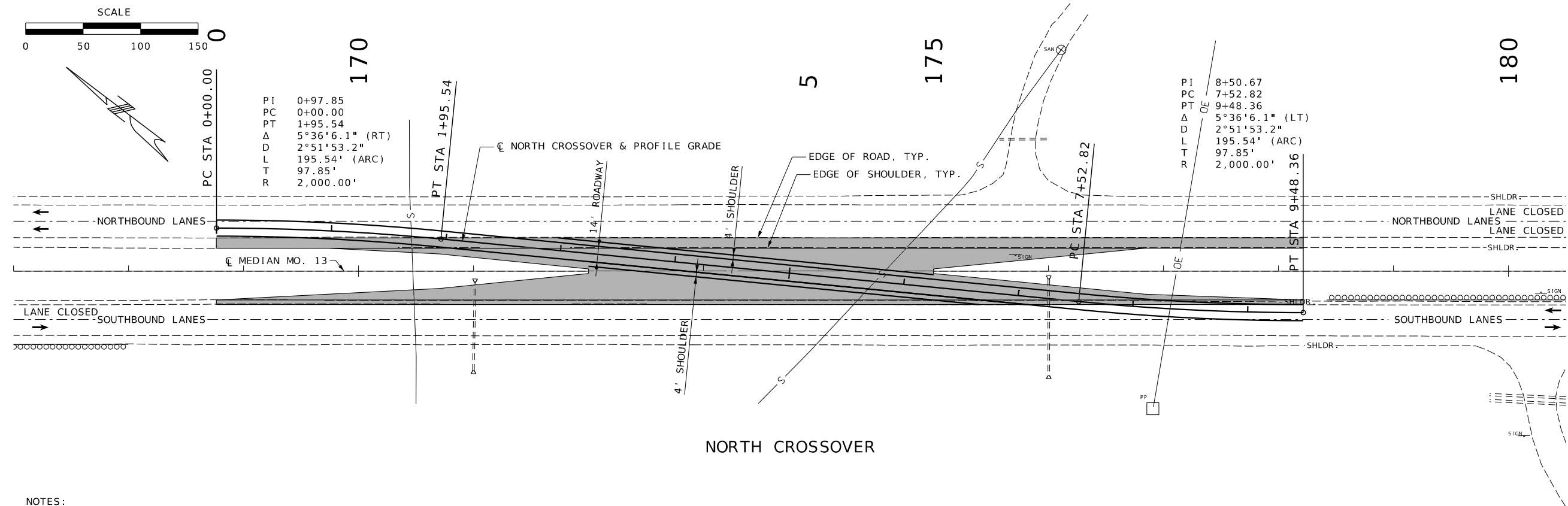
DESCRIPTION	DATE								

MISSOURI HIGHWAYS AND TRANSPORTATION
COMMISSION

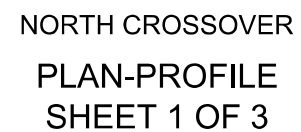
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

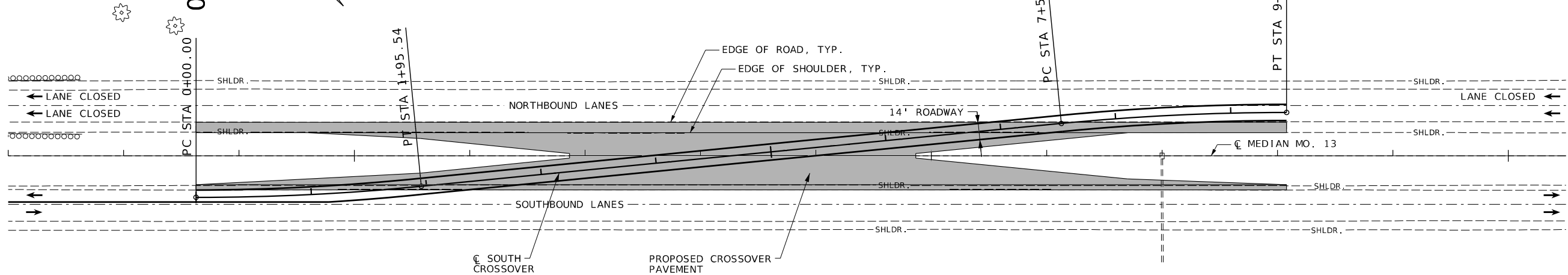
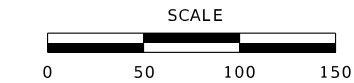
VEENSTRA & KIMM INC.
A Kleinfelder Company
9788 N Ash Avenue
Kansas City, Missouri 64157
816-781-0643 (FAX)
Certificate of Authority No. 2002006347

SIGN	SIZE	AREA	QTY	TOTAL AREA	QTY RELOC	TOTAL RELOC	SIGN NUM.	DESCRIPTION	SIGN	SIZE	AREA	QTY	TOTAL	QTY RELOC	TOTAL RELOC	SIGN NUM.	DESCRIPTION	ITEM NUMBER	TOTAL QTY	DESCRIPTION	
WARNING SIGNS									GUIDE SIGNS									6122008		IMPACT ATTENUATOR 40 MPH (SAND BARRELS)	
WO1-1L	48X48	16.00						TURN (SYMBOL LEFT)	E05-1	36X48	12.00						GORE EXIT	6122009		IMPACT ATTENUATOR 45 MPH (SAND BARRELS)	
WO1-1R	48X48	16.00						TURN (SYMBOL RIGHT)	E05-2	48X36	12.00						EXIT OPEN	6122010		IMPACT ATTENUATOR 50 MPH (SAND BARRELS)	
WO1-2L	48X48	16.00						CURVE (SYMBOL LEFT)	E05-2a	48X36	12.00						EXIT CLOSED	6122012		IMPACT ATTENUATOR 55 MPH (SAND BARRELS)	
WO1-2R	48X48	16.00						CURVE (SYMBOL RIGHT)	GO20-1	60X24	10.00	4	40.00			1	ROAD WORK NEXT 2 MILES	6122014		IMPACT ATTENUATOR 60 MPH (SAND BARRELS)	
WO1-3L	48X48	16.00						REVERSE TURN (SYMBOL LEFT)	GO20-2	48X24	8.00	4	32.00			26	END ROAD WORK	6122017	2	IMPACT ATTENUATOR 65 MPH (SAND BARRELS)	
WO1-3R	48X48	16.00						REVERSE TURN (SYMBOL RIGHT)	GO20-4	36X18	4.50						PILOT CAR FOLLOW ME	6122019		IMPACT ATTENUATOR 70 MPH (SAND BARRELS)	
WO1-4L	48X48	16.00	1	16.00			15L	REVERSE CURVE (SYMBOL LEFT)	GO20-4a	42X30	8.75						PILOT CAR IN USE WAIT & FOLLOW	6122020	2	REPLACEMENT SAND BARREL	
WO1-4R	48X48	16.00	1	16.00			15R	REVERSE CURVE (SYMBOL RIGHT)	GO20-4a	18X12	1.50						PILOT CAR IN USE WAIT & FOLLOW	6122030		IMPACT ATTENUATOR (RELOCATION)	
WO1-4bL	48X48	16.00						DOUBLE ARROW REVERSE CURVE (SYMBOL LEFT)	GO20-5aP	36X24	6.00	6	36.00			54	WORK ZONE (PLAQUE)	6122040		WORK ZONE CRASH CUSHION (NARROW)	
WO1-4bR	48X48	16.00						DOUBLE ARROW REVERSE CURVE (SYMBOL RIGHT)	MO4-8a	24X18	3.00						END DETOUR	6122041		WORK ZONE CRASH CUSHION (RELOCATION)	
WO1-4cL	48X48	16.00						TRIPLE ARROW REVERSE CURVE (SYMBOL LEFT)	MO4-9L	48X36	12.00						DETOUR (LEFT)	6123001		TRUCK MOUNTED ATTENUATOR (TMA)	
WO1-4cR	48X48	16.00						TRIPLE ARROW REVERSE CURVE (SYMBOL RIGHT)	MO4-9R	48X36	12.00						DETOUR (RIGHT)	6161012		BUOYS (BOATS KEEP OUT)	
WO1-6	60X30	12.50	6	75.00			16	HORIZONTAL ARROW (SYMBOL)	MO4-9P	48X12	4.00						STREET NAME (PLAQUE)	6161013		BUOYS (NO WAKE)	
WO1-6a	72X36	18.00						HORIZ. ARROW (SYMBOL ON PERMANENT BARRICADE)	MO4-10L	48X18	6.00						DETOUR ARROW (LEFT)	6161014		SPECIAL SIGN ASSEMBLY (BOATS KEEP OUT)	
WO1-7	60X30	12.50						DOUBLE HEAD HORIZONTAL ARROW (SYMBOL)	MO4-10R	48X18	6.00						DETOUR ARROW (RIGHT)	6161020		CHANNELIZER (DRUM-LIKE)	
WO1-7a	72X36	18.00						DOUBLE HEAD HORIZ. ARROW (SYMBOL ON PERM. BARR.)	REGULATORY SIGNS									6161022		CHANNELIZER (CONE)	
WO1-8	18X24	3.00						CHEVRON (SYMBOL)	R1-1	48X48	13.25						STOP	6161025	105	CHANNELIZER (TRIM-LINE)	
WO1-8a	30X36	7.50						CHEVRON (SYMBOL FOR DIVIDED HIGHWAYS)	R1-2	48TRI.	6.93						YIELD	6161026		CHANNELIZER (VERTICAL PANEL)	
WO3-1	48X48	16.00						STOP AHEAD (SYMBOL)	R1-2a	36X36	9.00						TO ONCOMING TRAFFIC (PLAQUE)	6161030	10	TYPE 3 MOVEABLE BARRICADE	
WO3-2	48X48	16.00						YIELD AHEAD (SYMBOL)	R1-3P	30X12	2.50						ALL WAY (PLAQUE)	6161033	30	DIRECTIONAL INDICATOR BARRICADE	
WO3-3	48X48	16.00						SIGNAL AHEAD (SYMBOL)	R2-1	36X48	12.00	6	72.00			4	SPEED LIMIT 55 MPH	6161040	2	FLASHING ARROW PANEL	
WO3-4	48X48	16.00						BE PREPARED TO STOP	R3-1	48X48	16.00						NO RIGHT TURN (SYMBOL)	6161047		TYPE 3 OBJECT MARKER	
WO3-5	48X48	16.00						SPEED LIMIT AHEAD	R3-2	48X48	16.00						NO LEFT TURN (SYMBOL)	6161055	30	SEQUENTIAL FLASHING WARNING LIGHT	
WO4-1L	48X48	16.00						MERGE (SYMBOL FROM LEFT)	R3-3	36X36	9.00						NO TURNS	6161070	93	TUBULAR MARKER	
WO4-1R	48X48	16.00						MERGE (SYMBOL FROM RIGHT)	R3-4	48X48	16.00						NO U-TURN (SYMBOL)	6161095		RADAR SPEED ADVISORY SYSTEM	
WO4-1aL	48X48	16.00	1	16.00			6B	MERGE (LEFT)	R3-7L	30X30	6.25						LEFT LANE MUST TURN LEFT	6161096		CHANGEABLE MESSAGE SIGN, COMMISSION FURNISHED/RETAINED	
WO4-1aR	48X48	16.00	1	16.00			6A	MERGE (RIGHT)	R3-7R	30X30	6.25						RIGHT LANE MUST TURN RIGHT			CHANGEABLE MESSAGE SIGN WITHOUT COMM. INTERFACE, CONTRACTOR FURNISHED/RETAINED	
WO5-1	48X48	16.00						ROAD/BRIDGE/RAMP NARROWS	R4-1	36X48	12.00	4	48.00			46	DO NOT PASS	6161098A		CHANGEABLE MESSAGE SIGN WITH COMM. INTERFACE, CONTRACTOR FURNISHED/RETAINED	
WO5-3	48X48	16.00						ONE LANE BRIDGE	R4-2	36X48	12.00						KEEP RIGHT (HORIZONTAL ARROW)			CHANGEABLE MESSAGE SIGN WITH COMM. INTERFACE, CONTRACTOR FURNISHED/RETAINED	
WO5-5	48X48	16.00						NARROW LANES	R4-7a	36X48	12.00						KEEP LEFT (HORIZONTAL ARROW)	6161099	2	WORK ZONE TRAFFIC SIGNAL SYSTEM	
WO6-1	48X48	16.00						DIVIDED HIGHWAY (SYMBOL)	R4-8a	36X48	12.00						DO NOT ENTER	6162000A		TEMPORARY LONG-TERM RUMBLE STRIPS	
WO6-2	48X48	16.00						DIVIDED HIGHWAY END (SYMBOL)	R5-1	30X30	6.25	4	25.00			35	WORK WAY	6162002	4	TEMPORARY TRAFFIC BARRIER	
WO6-3	48X48	16.00	3	48.00			31	TWO WAY TRAFFIC (SYMBOL)	R5-1a	36X24	6.00						ONE WAY ARROW (LEFT)			CONTRACTOR FURNISHED/RETAINED	
WO7-3a	30X24	5.00						NEXT XX MILES (PLAQUE)	R6-1L	54X18	6.75						ONE WAY ARROW (RIGHT)	6173600D		TEMP. TRAFFIC BARRIER ANCHORED, CONTRACTOR FURNISHED/RETAINED	
WO8-1	48X48	16.00						BUMP	R6-1R	54X18	6.75						ONE WAY (LEFT)	6173700B		TEMP. TRAFFIC BARRIER STIFFNESS TRANSITION	
WO8-2	48X48	16.00						DIP	R6-2L	24X30	5.00						ONE WAY (RIGHT)			CONTRACTOR FURNISHED/RETAINED	
WO8-3	48X48	16.00						PAVEMENT ENDS	R6-2R	24X30	5.00						SIDEWALK CLOSED	6173706		CONTRACTOR FURNISHED/RETAINED	
WO8-4	48X48	16.00						SOFT SHOULDER	R9-9	24X12	2.00						SIDEWALK CLOSED AHEAD, (ARROW LEFT) CROSS HERE			TEMP. TRAFFIC BARRIER HEIGHT TRANSITION	
WO8-5	48X48	16.00						SLIPPERY WHEN WET (SYMBOL)	R9-11L	24X18	3.00						SIDEWALK CLOSED AHEAD, (ARROW RIGHT) CROSS HERE	CONTRACTOR FURNISHED/RETAINED			
WO8-6	48X48	16.00						TRUCK CROSSING	R9-11R	24X18	3.00						STOP HERE ON RED (45° ARROW)	6174000A		RELOCATING TEMP. TRAFFIC BARRIER	
WO8-6c	48X48	16.00						TRUCK ENTRANCE	R10-6	24X36	6.00						ROAD CLOSED	6175010A		RELOCATING TEMP. TRAFFIC BARRIER ANCHORED	
WO8-7	36X36	9.00						LOOSE GRAVEL	R11-2	48X30	10.00	2	20.00				ROAD CLOSED 1 MILE AHEAD	6175013		RELOCATING TEMP. TRAFFIC BARRIER STIFFNESS	
WO8-7a	36X36	9.00						FRESH OIL / LOOSE GRAVEL	R11-3a	60X30	12.50						LOCAL TRAFFIC ONLY	6175020A		TEMPORARY RAISED PAVEMENT MARKER	
WO8-9	48X48	16.00						LOW SHOULDER	R11-4	60X30	12.50						ROAD CLOSED TO THRU TRAFFIC	6208064A		TEMPORARY TRAFFIC SIGNALS	
WO8-11	48X48	16.00						UNEVEN LANES	CONST-3A	60X48	20.00						FINE SIGN	9029401		TEMPORARY TRAFFIC SIGNALS AND LIGHTING	
WO8-12	48X48	16.00						NO CENTER LINE	CONST-3X	56X12	4.67						SPEEDING/PASSING (PLATE)				
WO8-15	48X48	16.00						GROOVED PAVEMENT	MISCELLANEOUS SIGNS												
WO8-15P	30X24	5.00						MOTORCYCLE (PLAQUE)	CONST-5	48X36	12.00						POINT OF PRESENCE			POINT OF PRESENCE	
WO8-17L	48X48	16.00						SHOULDER DROP-OFF (SYMBOL LEFT)	CONST-5	96X48	32.00	2	64.00			58A	WORK ZONE NO PHONE ZONE			70	
WO8-17R	48X48	16.00						SHOULDER DROP-OFF (SYMBOL RIGHT)	CONST-8	48X36	12.00	4	48.00			71	RUMBLE STRIPS AHEAD				
WO8-17P	30X24	5.00						SHOULDER DROP-OFF (PLAQUE)	CONST-5P	60X8	3.33	2	6.66			58B	COMPLETED AS PROMISED				
W10-1	42RND.	9.62						RAILROAD CROSSING	R2-1	36X48	12.00	4	48.00			25	SPEED LIMIT 65 MPH				
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	2	12.50			44	ADVISORY SPEED (PLAQUE) 55 MPH													
WO16-2	30X24	5.00						XXX FEET (PLAQUE)													
WO16-3	30X24																				



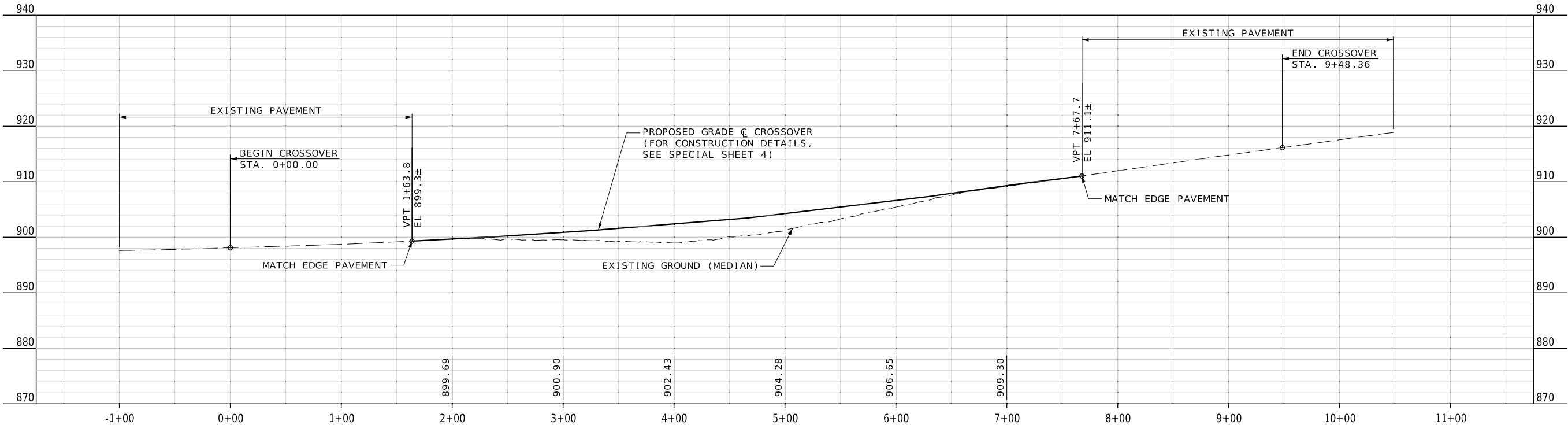
NORTH CROSSOVER





SOUTH CROSSOVER

NOTES:
FOR DETAILS OF CROSSOVER PAVEMENT
CONSTRUCTION, SEE SPECIAL SHEET 4.



PROFILE $\varnothing$ SOUTH CROSSOVER

SOUTH CROSSOVER
PLAN-PROFILE
SHEET 3 OF 3



THIS SHEET HAS BEEN
SIGNED, SEALED AND DATED
ELECTRONICALLY.

DATE PREPARED
12/1/2025

ROUTE 13	STATE MO
DISTRICT SW	SHEET NO. 6

COUNTY
POLK

JOB NO.
JSR0049

CONTRACT ID.

PROJECT NO.

BRIDGE NO.
A9573

DESCRIPTION	DATE

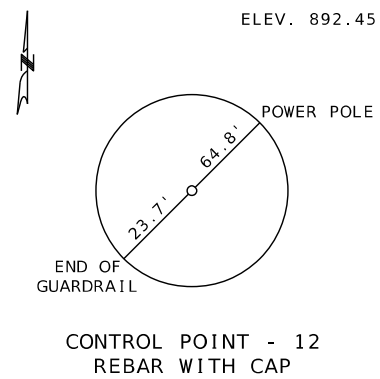
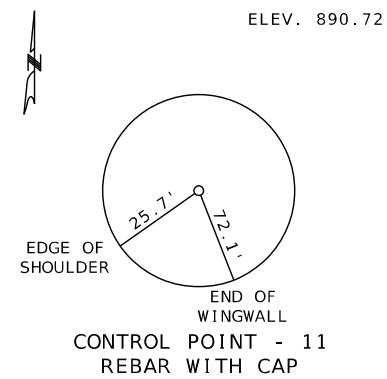
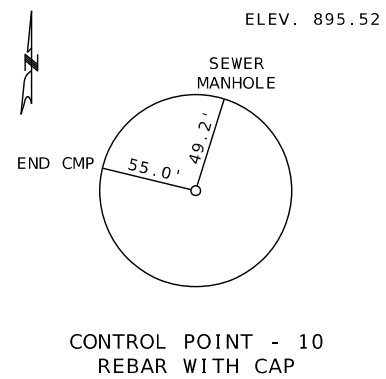
MISSOURI HIGHWAYS AND TRANSPORTATION
COMMISSION

MoDOT

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

VEENSTRA & KIMM INC.
A Kleinfelder Company

9788 N Ash Avenue
Kansas City, Missouri 64157
816-781-6182 816-781-0643 (FAX)
Certificate of Authority No. 2002006347



THIS SHEET HAS BEEN
SIGNED, SEALED AND DATED
ELECTRONICALLY.

DATE PREPARED
12/1/2025

ROUTE 13	STATE MO
-------------	-------------

DISTRICT SW	SHEET NO. 7
----------------	----------------

COUNTY
POLK

JOB NO.
JSR0049

CONTRACT ID.

PROJECT NO.

BRIDGE NO. A9573

[illegible]

**MISSOURI HIGHWAYS AND TRANSPORTATION
COMMISSION**

 105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-273-6636)

**VEENSTRA
& KIMM INC.**

A Kleinfelder Company

9708 N Ash Avenue
Kansas City, Missouri 64157
816-781-6182 816-781-0643 (FAX)
Certificate of Authority No. 2002006347

REFERENCE POINTS
SHEET 1 OF 1

LINEAR UNIT CONVERSION
1 METER = 3.280833333 US SURVEY FEET (USFT)

T35N, R24W

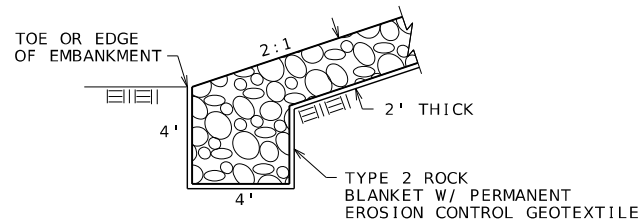
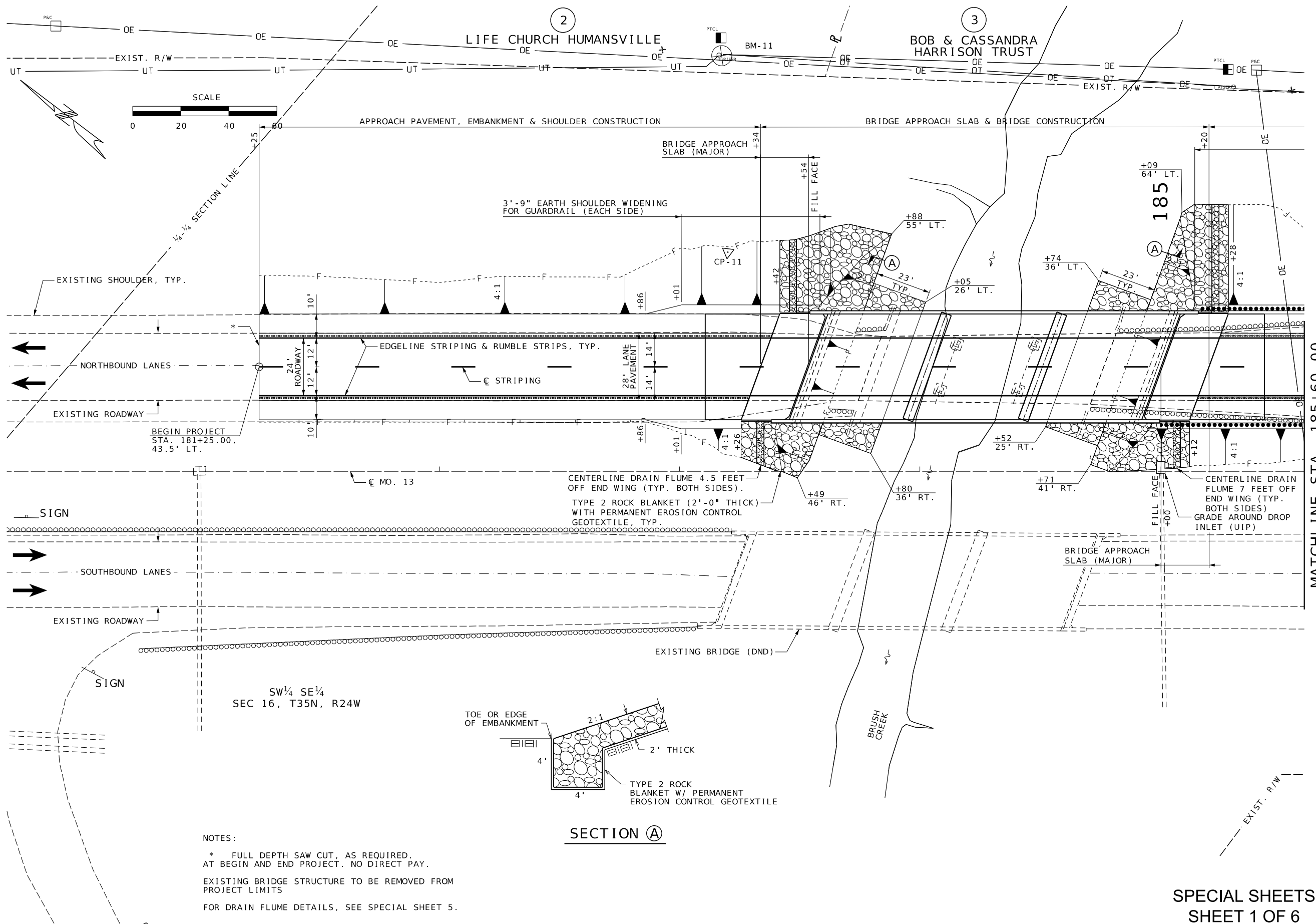
1:6 1:5

2:1 2:2

PROJECT LOCATION

LOCATION MAP

VEENSTRA & KIMM INC.
A Kleinfelder Company
9788 N Ash Avenue Kansas City, Missouri 64157
816-781-6182 816-781-0643 (FAX)
Certificate of Authority No. 2002006347



SECTION A

NOTES:
* FULL DEPTH SAW CUT, AS REQUIRED.
AT BEGIN AND END PROJECT. NO DIRECT PAY.
EXISTING BRIDGE STRUCTURE TO BE REMOVED FROM
PROJECT LIMITS
FOR DRAIN FLUME DETAILS, SEE SPECIAL SHEET 5.

SPECIAL SHEETS
SHEET 1 OF 6



THIS SHEET HAS BEEN
SIGNED, SEALED AND DATED
ELECTRONICALLY.

DATE PREPARED
12/1/2025

ROUTE 13 STATE MO

DISTRICT SW SHEET NO. 9

COUNTY POLK

JOB NO. JSR0049

CONTRACT ID.

PROJECT NO.

BRIDGE NO. A9573

DESCRIPTION

DATE

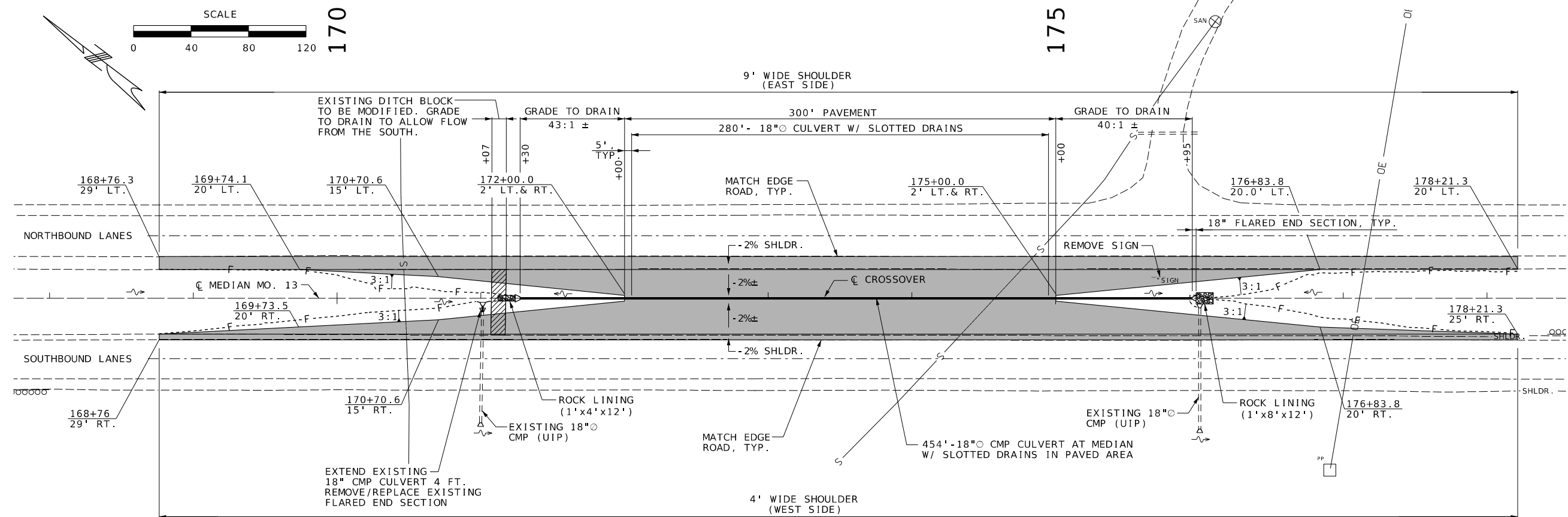
MISSOURI HIGHWAYS AND TRANSPORTATION
COMMISSION

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

VEENSTRA & KIMM INC.

A Kleinfelder Company

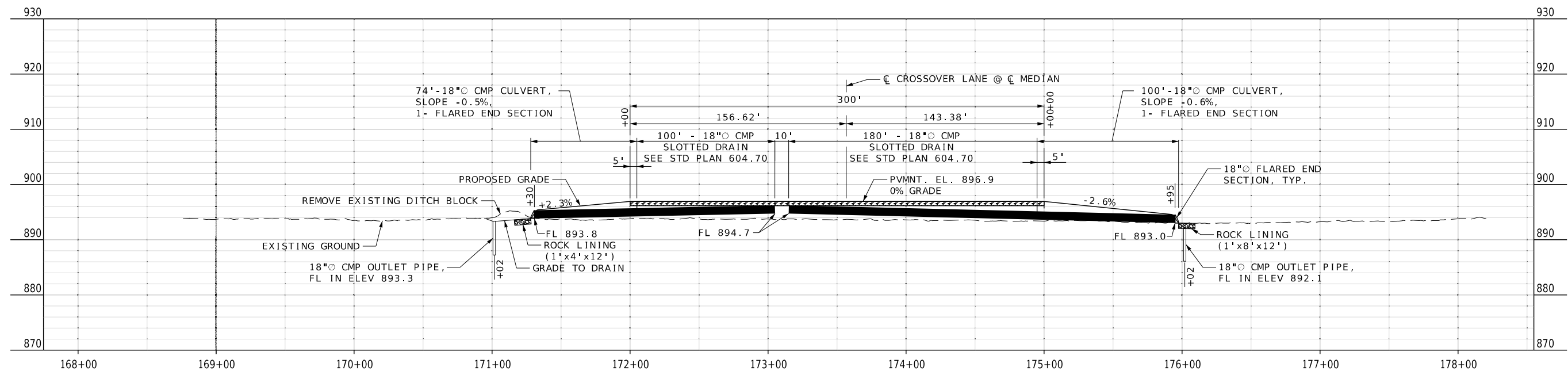
9788 N Ash Avenue
Kansas City, Missouri 64157
816-781-6182 816-781-0643 (FAX)
Certificate of Authority No. 2002006347



NOTES:
FOR TRAFFIC LANE ALIGNMENT, SEE PLAN-PROFILE SHEET 1.

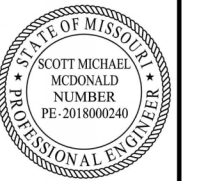
SLOTTED DRAINS SHALL BE TYPE A OR B, 6-INCH GRATE WITH EXTENSIONS.

NORTH CROSSOVER



PROFILE @ MEDIAN

NORTH CROSSOVER
SPECIAL SHEETS
SHEET 3 OF 6



THIS SHEET HAS BEEN
SIGNED, SEALED AND DATED
ELECTRONICALLY.

DATE PREPARED

ROUTE 13	STATE MO
DISTRICT SW	SHEET NO. 11

COUNTY
POLK

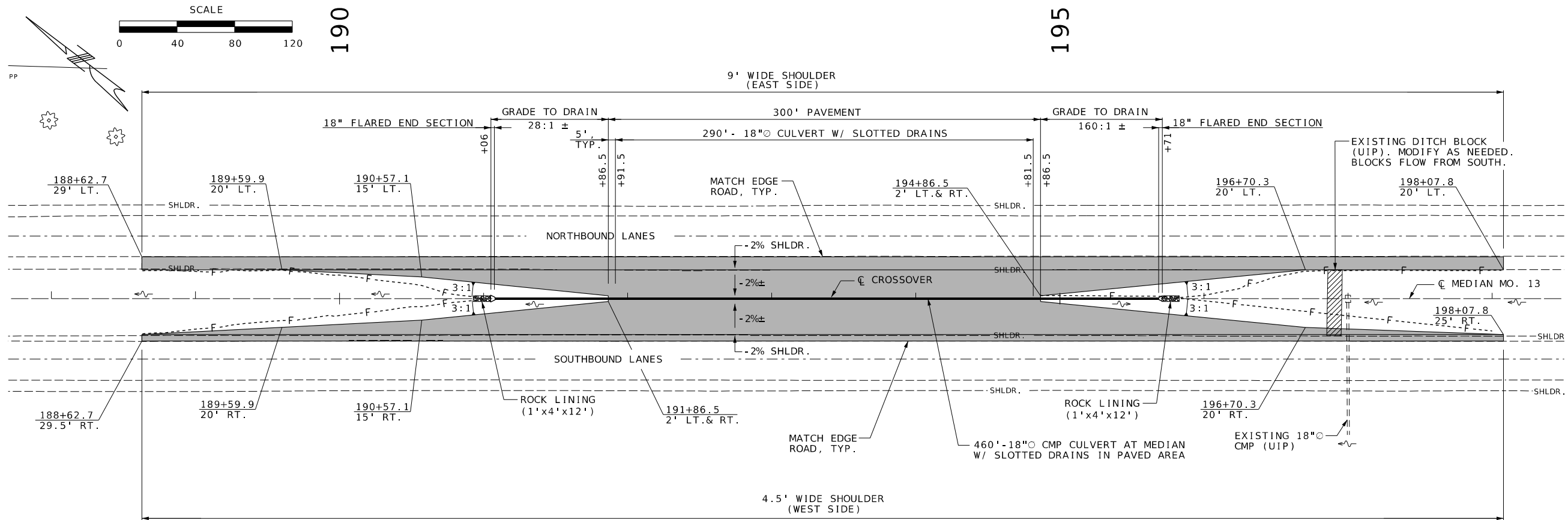
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JSR0049

CONTRACT ID.

PROJECT NO.

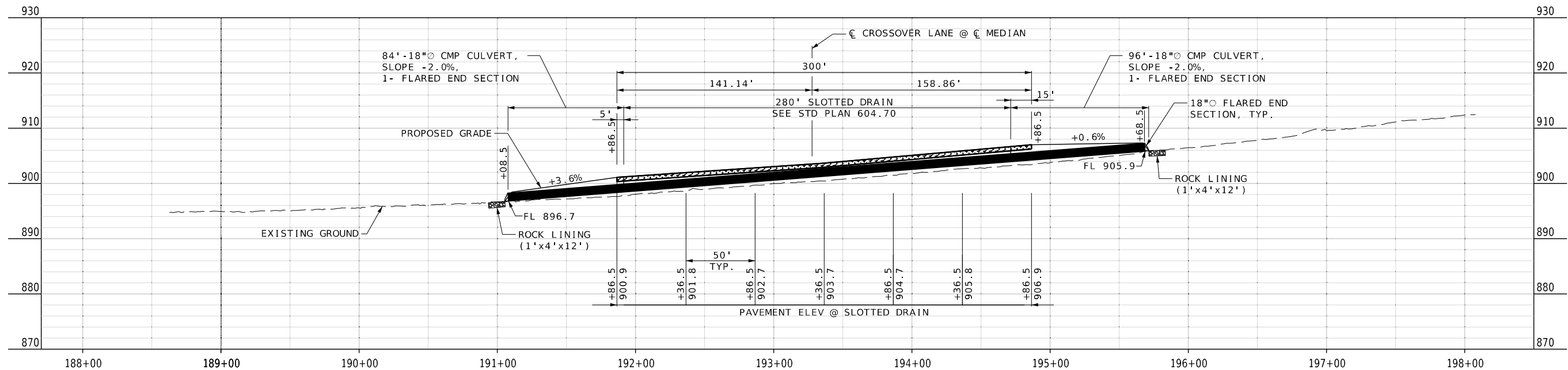
BRIDGE NO.
A9573[illegible]MISSOURI HIGHWAYS AND TRANSPORTATION
COMMISSION

VEENSTRA & KIMM INC.
A Kleinfelder Company
9788 N Ash Avenue
Kansas City, Missouri 64157
816-781-6182
816-781-6843 (FAX)
Certificate of Authority No. 2002006347



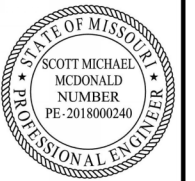
NOTES:
FOR TRAFFIC LANE ALIGNMENT, SEE PLAN-PROFILE SHEET 3.
SLOTTED DRAINS SHALL BE TYPE A OR B, 6-INCH GRATES WITH EXTENSIONS.

SOUTH CROSSOVER



PROFILE @ MEDIAN

SOUTH CROSSOVER
SPECIAL SHEETS
SHEET 4 OF 6



THIS SHEET HAS BEEN
SIGNED, SEALED AND DATED
ELECTRONICALLY.

DATE PREPARED 12/1/2025	
ROUTE 13	STATE MO
DISTRICT SW	SHEET NO. 12
COUNTY POLK	
JOB NO. JSR0049	
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO. A9573	

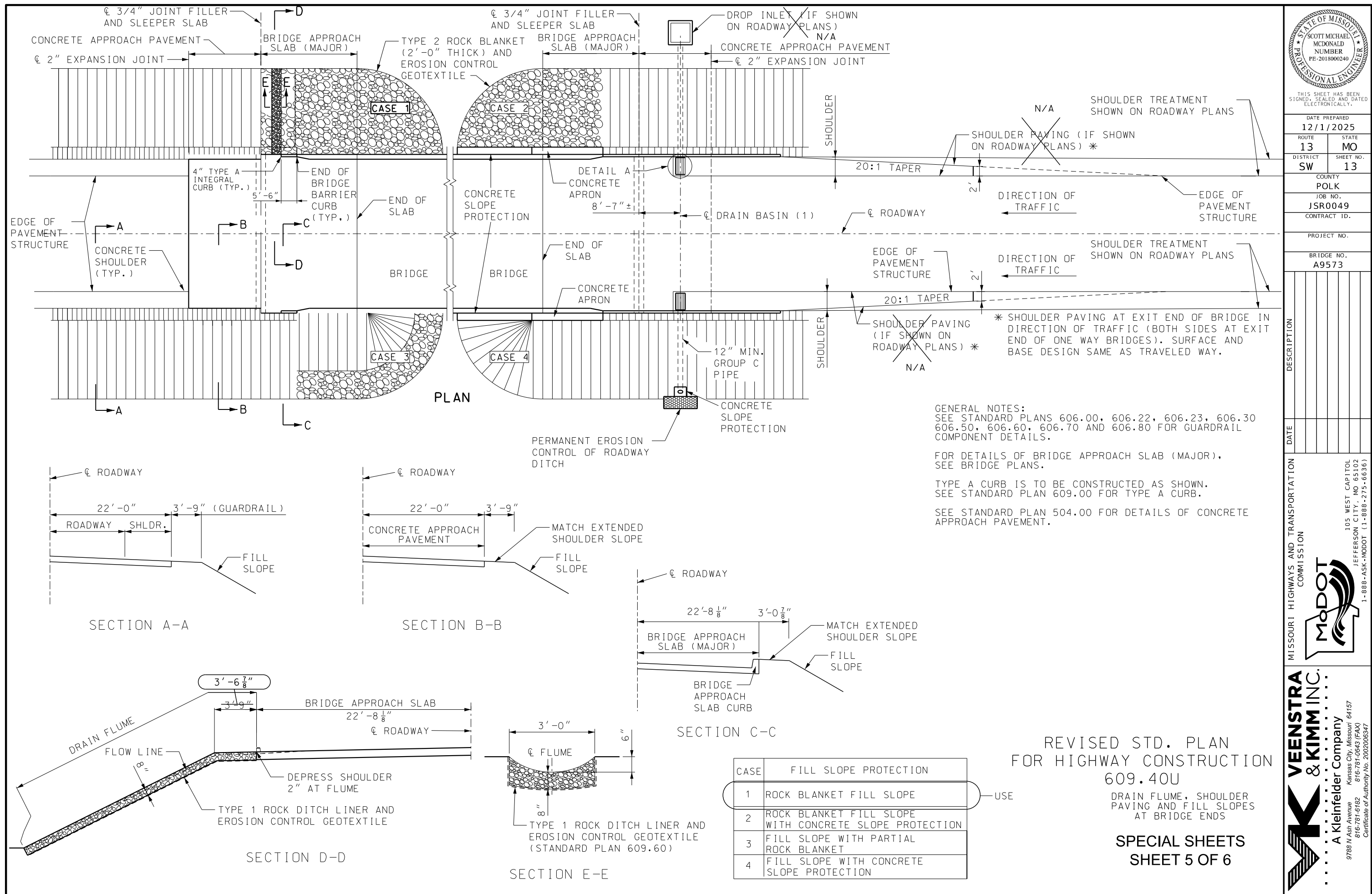
DESCRIPTION	DATE

MISSOURI HIGHWAYS AND TRANSPORTATION
COMMISSION

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

VEENSTRA & KIMM INC.
A Kleinfelder Company

9788 N Ash Avenue
Kansas City, Missouri 64157
816-781-6182 816-781-0643 (FAX)
Certificate of Authority No. 2002006347



THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED
12/1/2025

ROUTE
13

DISTRICT
SW

COUNTY
POLK

JOB NO.
JSR0049

CONTRACT ID.

PROJECT NO.

BRIDGE NO.
A9573

DESCRIPTION

DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

MoDOT

105 WEST CAPITOL

JEFFERSON CITY, MO 65102

1-888-ASK-MODOT (1-888-275-6636)

VEENSTRA & KIMM INC.

A Kleinfelder Company

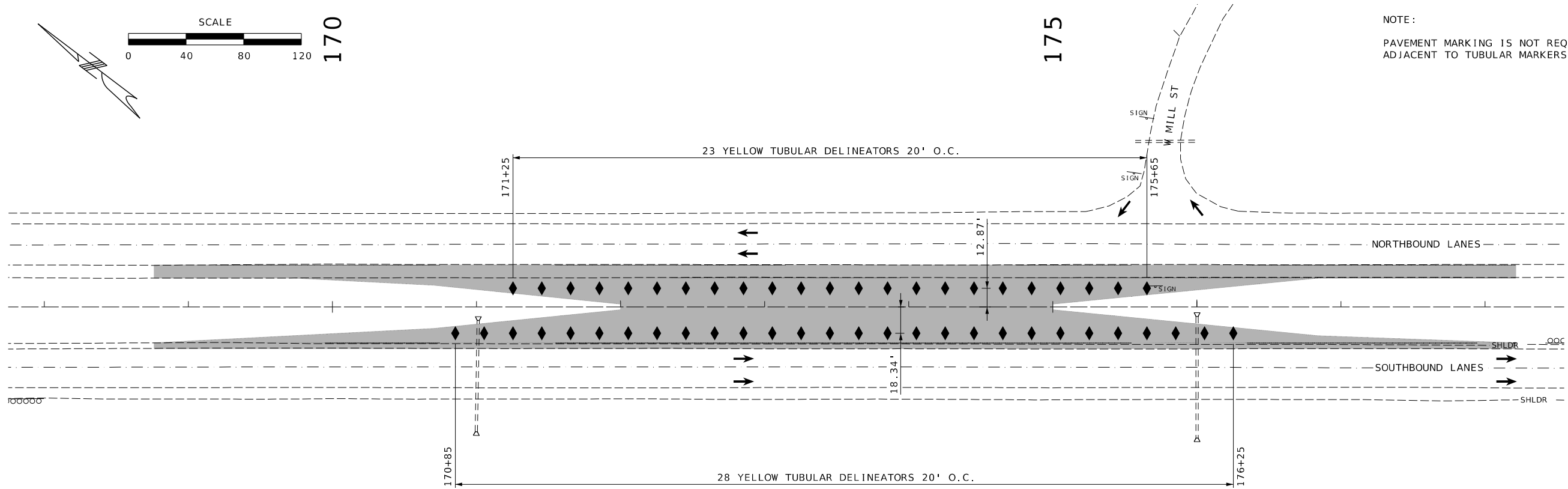
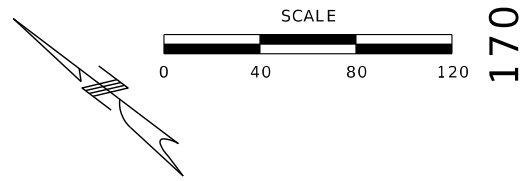
9788 N Ash Avenue

Kansas City, Missouri 64157

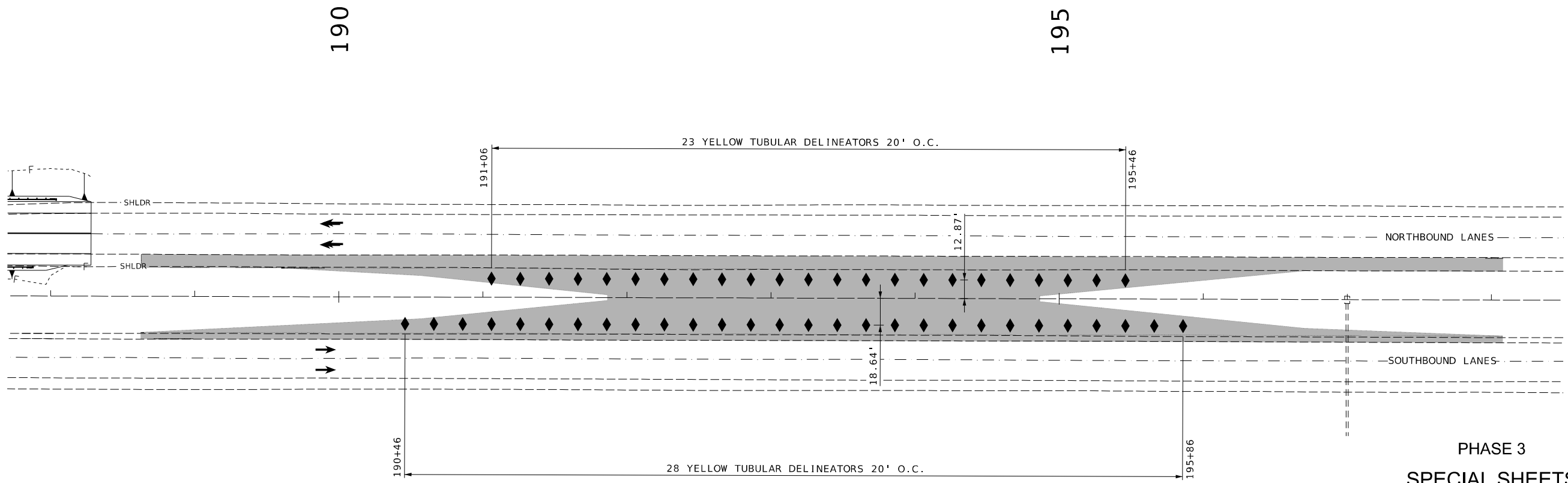
816-781-6182

816-781-0643 (FAX)

Certificate of Authority No. 2002006347



NORTH CROSSOVER



SOUTH CROSSOVER

PHASE 3
SPECIAL SHEETS
SHEET 6 OF 6

NOTE:
PAVEMENT MARKING IS NOT REQUIRED
ADJACENT TO TUBULAR MARKERS.



THIS SHEET HAS BEEN
SIGNED, SEALED AND DATED
ELECTRONICALLY.

DATE PREPARED 12/1/2025	
ROUTE 13	STATE MO
DISTRICT SW	SHEET NO. 14
COUNTY POLK	
JOB NO. JSR0049	
CONTRACT ID.	

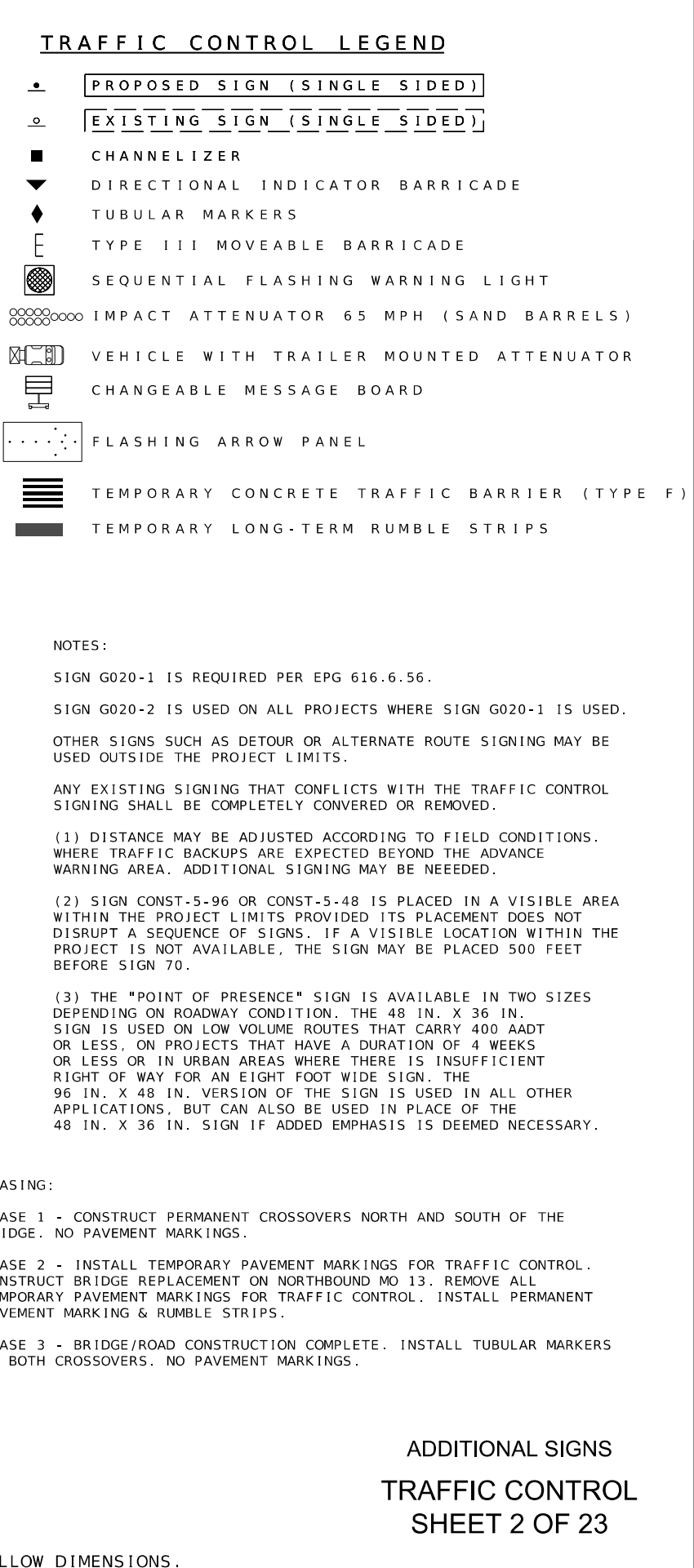
PROJECT NO.	
BRIDGE NO. A9573	

DESCRIPTION	DATE

MISSOURI HIGHWAYS AND TRANSPORTATION
COMMISSION

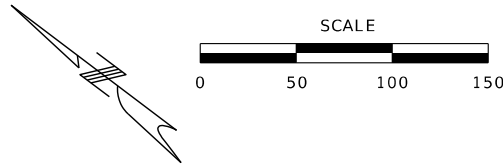
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

VEENSTRA & KIMM INC.
A Kleinfelder Company
9788 N Ash Avenue
Kansas City, Missouri 64157
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ADDITIONAL SIGNS
TRAFFIC CONTROL
SHEET 2 OF 23

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PHASING:

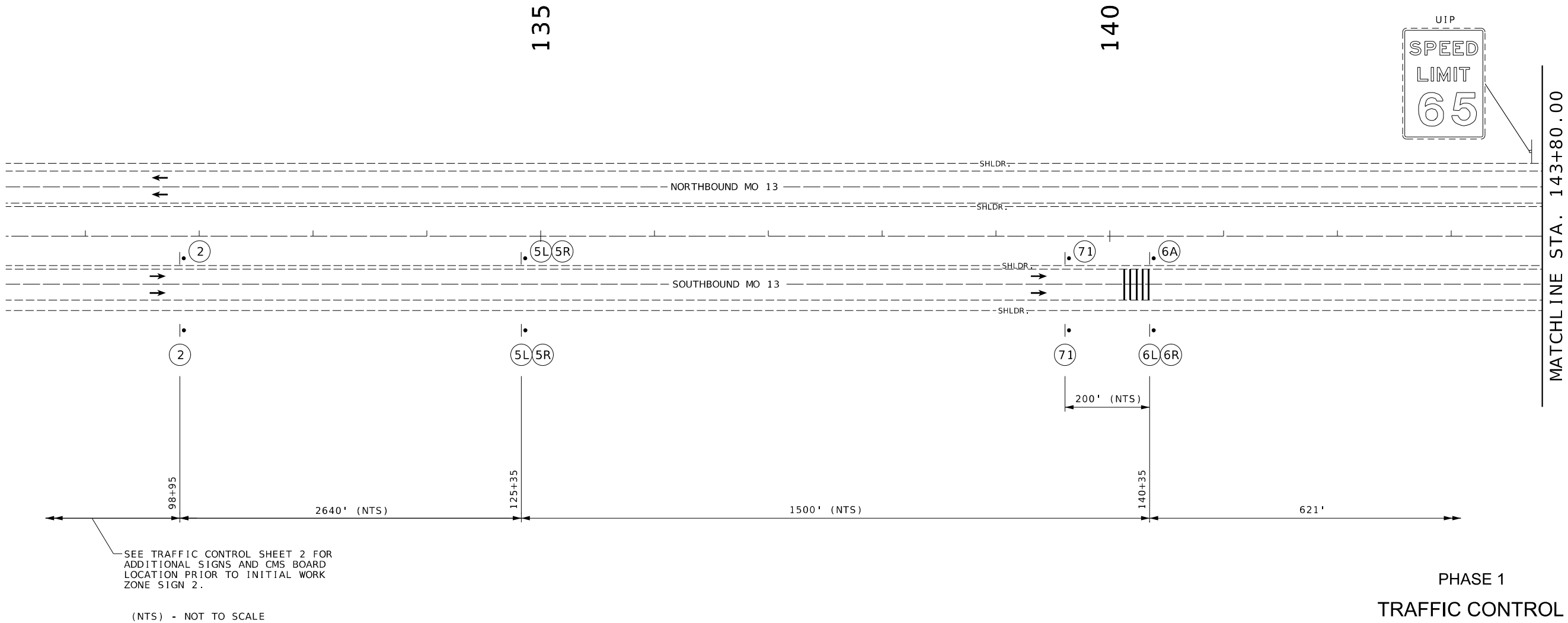
PHASE 1 - CONSTRUCT PERMANENT CROSSOVERS NORTH AND SOUTH OF THE BRIDGE. NO PAVEMENT MARKINGS.

PHASE 2 - INSTALL TEMPORARY PAVEMENT MARKINGS FOR TRAFFIC CONTROL. CONSTRUCT BRIDGE REPLACEMENT ON NORTHBOUND MO 13. REMOVE ALL TEMPORARY PAVEMENT MARKINGS FOR TRAFFIC CONTROL. INSTALL PERMANENT PAVEMENT MARKING & RUMBLE STRIPS.

PHASE 3 - BRIDGE/ROAD CONSTRUCTION COMPLETE. INSTALL TUBULAR MARKERS ON BOTH CROSSOVERS. NO PAVEMENT MARKINGS.

TRAFFIC CONTROL LEGEND

- PROPOSED SIGN (SINGLE SIDED)
- EXISTING SIGN (SINGLE SIDED)
- CHANNELIZER
- ▼ DIRECTIONAL INDICATOR BARRICADE
- ◆ TUBULAR MARKERS
- [TYPE III MOVEABLE BARRICADE
- ◼ SEQUENTIAL FLASHING WARNING LIGHT
- ▬ TEMPORARY CONCRETE TRAFFIC BARRIER (TYPE F)
- IMPACT ATTENUATOR 65 MPH (SAND BARRELS)
- 🚚 VEHICLE WITH TRAILER MOUNTED ATTENUATOR
- 📺 CHANGEABLE MESSAGE BOARD
- ⋯ FLASHING ARROW PANEL
- ▬▬▬ TEMPORARY LONG-TERM RUMBLE STRIPS



SEE TRAFFIC CONTROL SHEET 2 FOR ADDITIONAL SIGNS AND CMS BOARD LOCATION PRIOR TO INITIAL WORK ZONE SIGN 2.

(NTS) - NOT TO SCALE

PHASE 1
TRAFFIC CONTROL
SHEET 3 OF 23



THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED 12/1/2025	
ROUTE 13	STATE MO
DISTRICT SW	SHEET NO. 17
COUNTY POLK	
JOB NO. JSR0049	
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO. A9573	

DESCRIPTION	DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

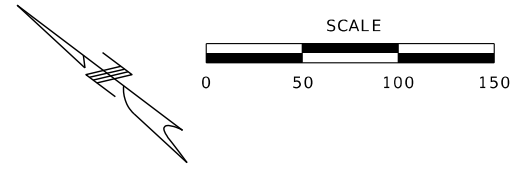
MoDOT

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

VEENSTRA & KIMM INC.

A Kleinfelder Company

9788 N Ash Avenue
Kansas City, Missouri 64157
816-781-6182 816-781-0643 (FAX)
Certificate of Authority No. 2002006347



PHASING:

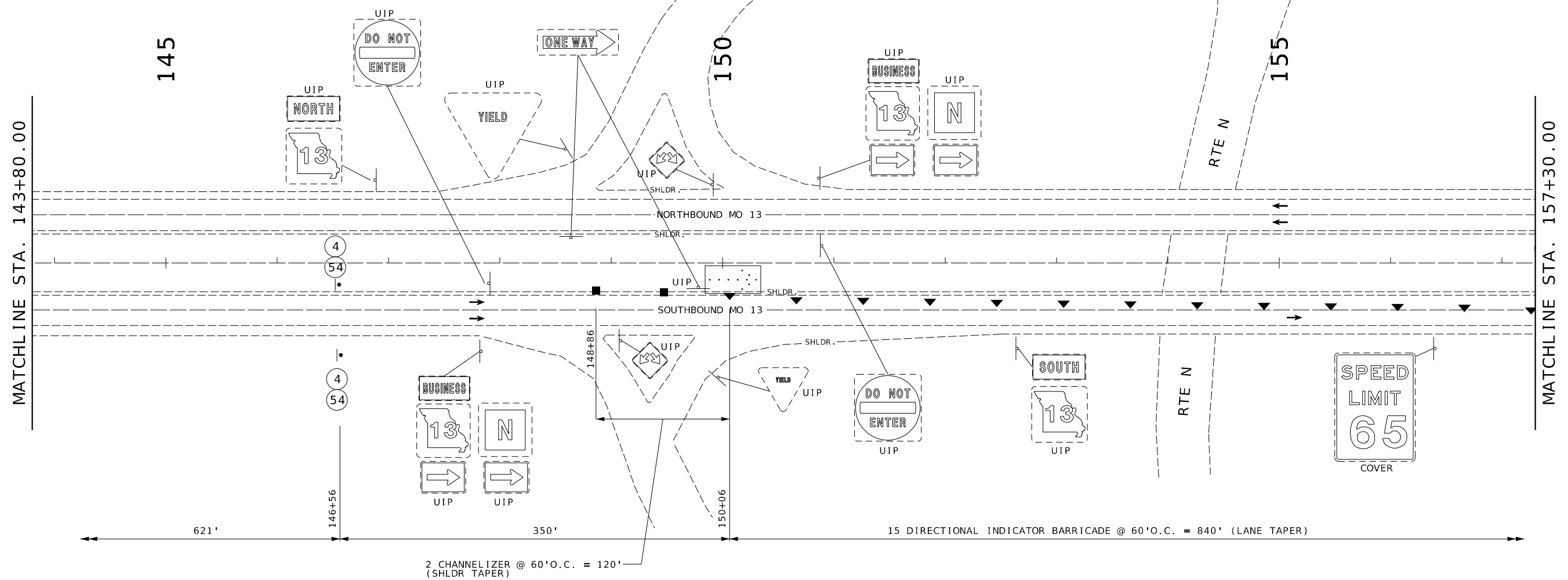
PHASE 1 - CONSTRUCT PERMANENT CROSSOVERS NORTH AND SOUTH OF THE BRIDGE. NO PAVEMENT MARKINGS.

PHASE 2 - INSTALL TEMPORARY PAVEMENT MARKINGS FOR TRAFFIC CONTROL. CONSTRUCT BRIDGE REPLACEMENT ON NORTHBOUND MO 13. REMOVE ALL TEMPORARY PAVEMENT MARKINGS FOR TRAFFIC CONTROL. INSTALL PERMANENT PAVEMENT MARKING & RUMBLE STRIPS.

PHASE 3 - BRIDGE/ROAD CONSTRUCTION COMPLETE. INSTALL TUBULAR MARKERS ON BOTH CROSSOVERS. NO PAVEMENT MARKINGS.

TRAFFIC CONTROL LEGEND

- PROPOSED SIGN (SINGLE SIDED)
- EXISTING SIGN (SINGLE SIDED)
- CHANNELIZER
- ▼ DIRECTIONAL INDICATOR BARRICADE
- ◆ TUBULAR MARKERS
- [TYPE III MOVEABLE BARRICADE
- ◼ SEQUENTIAL FLASHING WARNING LIGHT
- ▬ TEMPORARY CONCRETE TRAFFIC BARRIER (TYPE F)
- IMPACT ATTENUATOR 65 MPH (SAND BARRELS)
- 🚚 VEHICLE WITH TRAILER MOUNTED ATTENUATOR
- 📺 CHANGEABLE MESSAGE BOARD
- ⋯ FLASHING ARROW PANEL
- ▬▬▬ TEMPORARY LONG-TERM RUMBLE STRIPS



PHASE 1
TRAFFIC CONTROL
SHEET 4 OF 23



THIS SHEET HAS BEEN
SIGNED, SEALED AND DATED
ELECTRONICALLY.

DATE PREPARED 12/1/2025	
ROUTE 13	STATE MO
DISTRICT SW	SHEET NO. 18
COUNTY POLK	
JOB NO. JSR0049	
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO. A9573	

DESCRIPTION	DATE

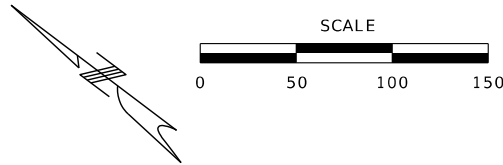
MISSOURI HIGHWAYS AND TRANSPORTATION
COMMISSION

MoDOT

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

VEENSTRA & KIMM INC.
A Kleinfelder Company

9788 N Ash Avenue
Kansas City, Missouri 64157
816-781-6182 816-781-0643 (FAX)
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PHASING:

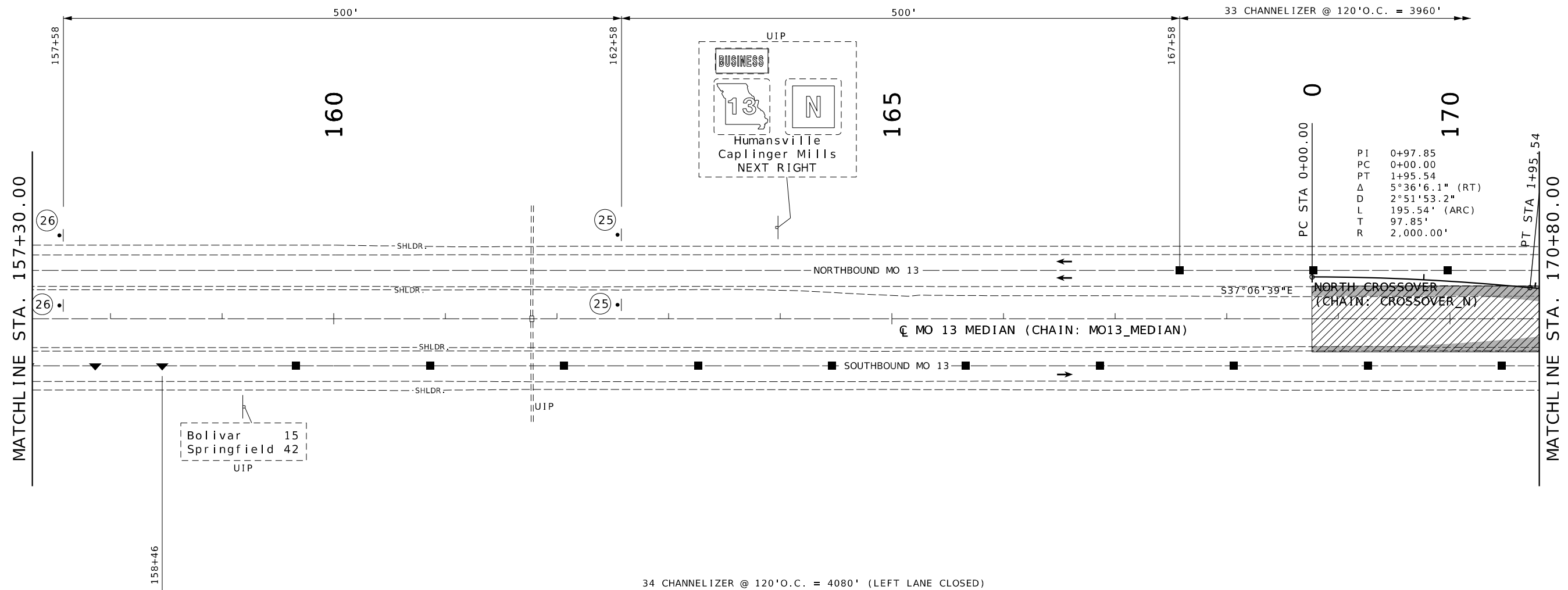
PHASE 1 - CONSTRUCT PERMANENT CROSSOVERS NORTH AND SOUTH OF THE BRIDGE. NO PAVEMENT MARKINGS.

PHASE 2 - INSTALL TEMPORARY PAVEMENT MARKINGS FOR TRAFFIC CONTROL. CONSTRUCT BRIDGE REPLACEMENT ON NORTHBOUND MO 13. REMOVE ALL TEMPORARY PAVEMENT MARKINGS FOR TRAFFIC CONTROL. INSTALL PERMANENT PAVEMENT MARKING & RUMBLE STRIPS.

PHASE 3 - BRIDGE/ROAD CONSTRUCTION COMPLETE. INSTALL TUBULAR MARKERS ON BOTH CROSSOVERS. NO PAVEMENT MARKINGS.

TRAFFIC CONTROL LEGEND

- PROPOSED SIGN (SINGLE SIDED)
- ◊ EXISTING SIGN (SINGLE SIDED)
- CHANNELIZER
- ▼ DIRECTIONAL INDICATOR BARRICADE
- ◆ TUBULAR MARKERS
- [TYPE III MOVEABLE BARRICADE
- ◼ SEQUENTIAL FLASHING WARNING LIGHT
- ▬ TEMPORARY CONCRETE TRAFFIC BARRIER (TYPE F)
- IMPACT ATTENUATOR 65 MPH (SAND BARRELS)
- 🚚 VEHICLE WITH TRAILER MOUNTED ATTENUATOR
- 📢 CHANGEABLE MESSAGE BOARD
- ⋯ FLASHING ARROW PANEL
- ▬▬▬ TEMPORARY LONG-TERM RUMBLE STRIPS



PHASE 1
TRAFFIC CONTROL
SHEET 5 OF 23



THIS SHEET HAS BEEN
SIGNED, SEALED AND DATED
ELECTRONICALLY.

DATE PREPARED 12/1/2025	
ROUTE 13	STATE MO
DISTRICT SW	SHEET NO. 19
COUNTY POLK	
JOB NO. JSR0049	
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO. A9573	

DESCRIPTION	DATE

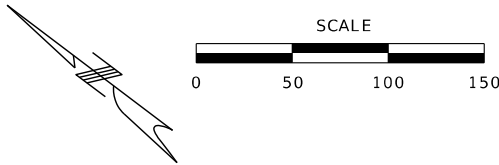
MISSOURI HIGHWAYS AND TRANSPORTATION
COMMISSION

MoDOT

105 WEST CAPITOL
JEFFERSON CITY, MO 65102
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PHASING:

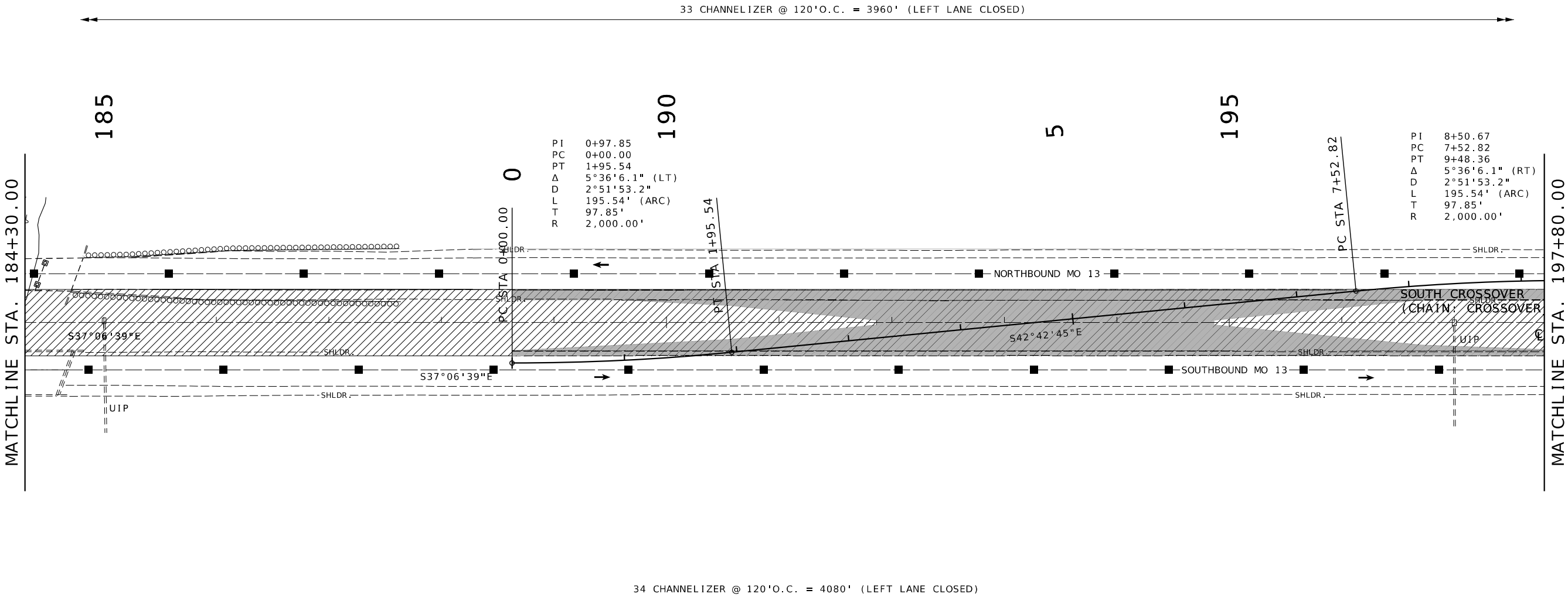
PHASE 1 - CONSTRUCT PERMANENT CROSSOVERS NORTH AND SOUTH OF THE BRIDGE. NO PAVEMENT MARKINGS.

PHASE 2 - INSTALL TEMPORARY PAVEMENT MARKINGS FOR TRAFFIC CONTROL. CONSTRUCT BRIDGE REPLACEMENT ON NORTHBOUND MO 13. REMOVE ALL TEMPORARY PAVEMENT MARKINGS FOR TRAFFIC CONTROL. INSTALL PERMANENT PAVEMENT MARKING & RUMBLE STRIPS.

PHASE 3 - BRIDGE/ROAD CONSTRUCTION COMPLETE. INSTALL TUBULAR MARKERS ON BOTH CROSSOVERS. NO PAVEMENT MARKINGS.

TRAFFIC CONTROL LEGEND

- PROPOSED SIGN (SINGLE SIDED)
- EXISTING SIGN (SINGLE SIDED)
- CHANNELIZER
- DIRECTIONAL INDICATOR BARRICADE
- TUBULAR MARKERS
- TYPE III MOVEABLE BARRICADE
- SEQUENTIAL FLASHING WARNING LIGHT
- TEMPORARY CONCRETE TRAFFIC BARRIER (TYPE F)
- IMPACT ATTENUATOR 65 MPH (SAND BARRELS)
- VEHICLE WITH TRAILER MOUNTED ATTENUATOR
- CHANGEABLE MESSAGE BOARD
- FLASHING ARROW PANEL
- TEMPORARY LONG-TERM RUMBLE STRIPS



THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED 12/1/2025	
ROUTE 13	STATE MO
DISTRICT SW	SHEET NO. 21
COUNTY POLK	
JOB NO. JSR0049	
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO. A9573	

DESCRIPTION	DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

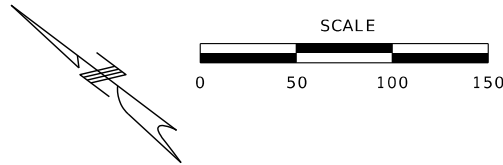
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105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

VEENSTRA & KIMM INC.

A Kleinfelder Company

9788 N Ash Avenue
Kansas City, Missouri 64157
816-781-6182 816-781-0643 (FAX)
Certificate of Authority No. 2002006347



PHASING:

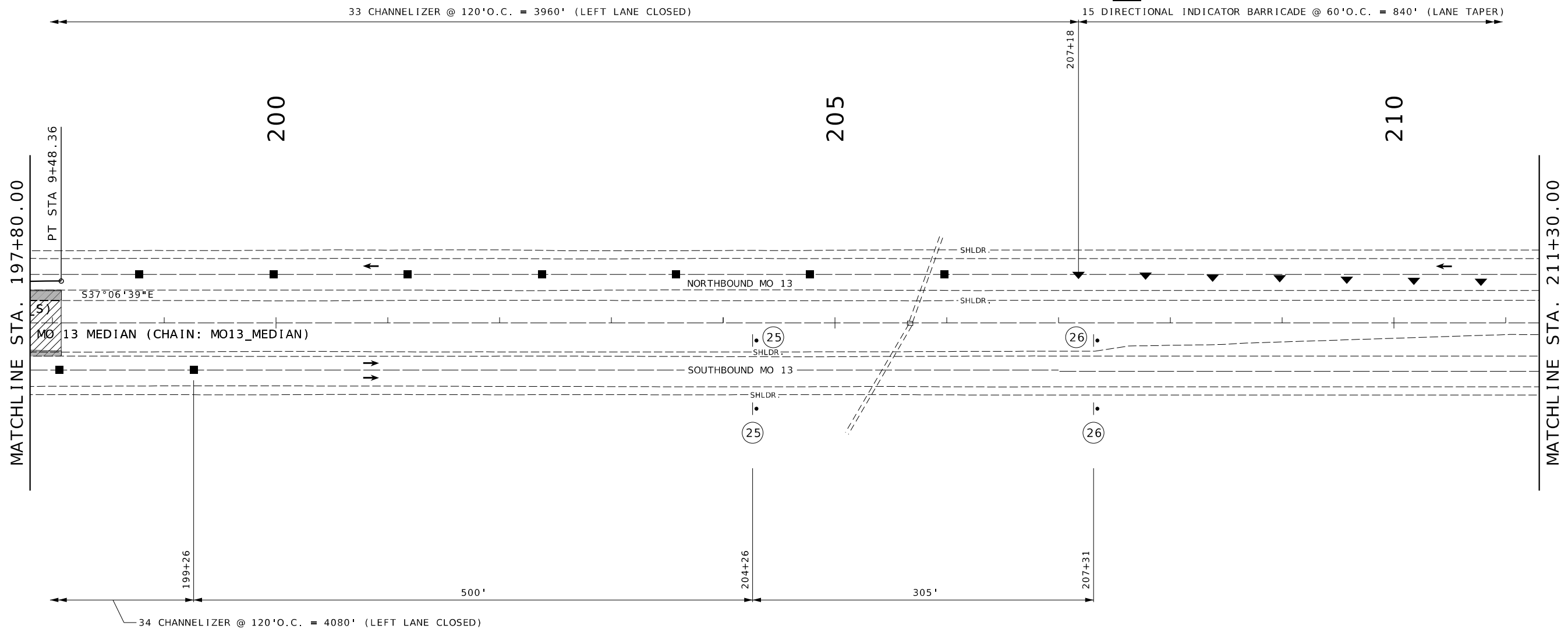
PHASE 1 - CONSTRUCT PERMANENT CROSSOVERS NORTH AND SOUTH OF THE BRIDGE. NO PAVEMENT MARKINGS.

PHASE 2 - INSTALL TEMPORARY PAVEMENT MARKINGS FOR TRAFFIC CONTROL. CONSTRUCT BRIDGE REPLACEMENT ON NORTHBOUND MO 13. REMOVE ALL TEMPORARY PAVEMENT MARKINGS FOR TRAFFIC CONTROL. INSTALL PERMANENT PAVEMENT MARKING & RUMBLE STRIPS.

PHASE 3 - BRIDGE/ROAD CONSTRUCTION COMPLETE. INSTALL TUBULAR MARKERS ON BOTH CROSSOVERS. NO PAVEMENT MARKINGS.

TRAFFIC CONTROL LEGEND

- PROPOSED SIGN (SINGLE SIDED)
- EXISTING SIGN (SINGLE SIDED)
- CHANNELIZER
- DIRECTIONAL INDICATOR BARRICADE
- TUBULAR MARKERS
- TYPE III MOVEABLE BARRICADE
- SEQUENTIAL FLASHING WARNING LIGHT
- TEMPORARY CONCRETE TRAFFIC BARRIER (TYPE F)
- IMPACT ATTENUATOR 65 MPH (SAND BARRELS)
- VEHICLE WITH TRAILER MOUNTED ATTENUATOR
- CHANGEABLE MESSAGE BOARD
- FLASHING ARROW PANEL
- TEMPORARY LONG-TERM RUMBLE STRIPS



PHASE 1
TRAFFIC CONTROL
SHEET 8 OF 23



THIS SHEET HAS BEEN
SIGNED, SEALED AND DATED
ELECTRONICALLY.

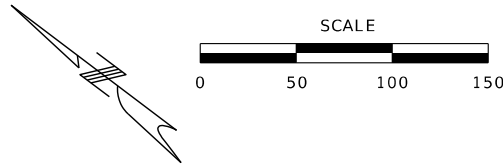
DATE PREPARED 12/1/2025	
ROUTE 13	STATE MO
DISTRICT SW	SHEET NO. 22
COUNTY POLK	
JOB NO. JSR0049	
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO. A9573	

DESCRIPTION	DATE

MISSOURI HIGHWAYS AND TRANSPORTATION
COMMISSION

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

VEENSTRA & KIMM INC.
A Kleinfelder Company
9788 N Ash Avenue
Kansas City, Missouri 64157
816-781-6182 816-781-0643 (FAX)
Certificate of Authority No. 2002006347



PHASING:

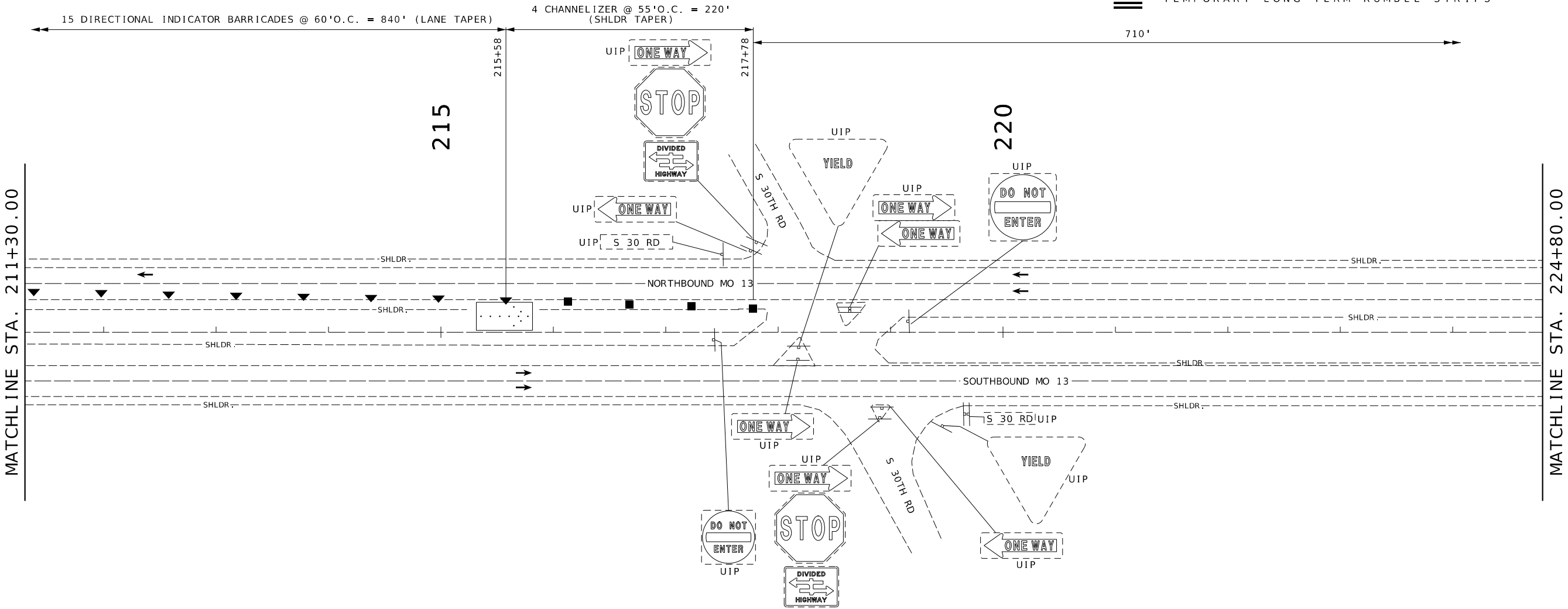
PHASE 1 - CONSTRUCT PERMANENT CROSSOVERS NORTH AND SOUTH OF THE BRIDGE. NO PAVEMENT MARKINGS.

PHASE 2 - INSTALL TEMPORARY PAVEMENT MARKINGS FOR TRAFFIC CONTROL. CONSTRUCT BRIDGE REPLACEMENT ON NORTHBOUND MO 13. REMOVE ALL TEMPORARY PAVEMENT MARKINGS FOR TRAFFIC CONTROL. INSTALL PERMANENT PAVEMENT MARKING & RUMBLE STRIPS.

PHASE 3 - BRIDGE/ROAD CONSTRUCTION COMPLETE. INSTALL TUBULAR MARKERS ON BOTH CROSSOVERS. NO PAVEMENT MARKINGS.

TRAFFIC CONTROL LEGEND

- PROPOSED SIGN (SINGLE SIDED)
- EXISTING SIGN (SINGLE SIDED)
- CHANNELIZER
- ▼ DIRECTIONAL INDICATOR BARRICADE
- ◆ TUBULAR MARKERS
- [TYPE III MOVEABLE BARRICADE
- ◼ SEQUENTIAL FLASHING WARNING LIGHT
- ▬ TEMPORARY CONCRETE TRAFFIC BARRIER (TYPE F)
- IMPACT ATTENUATOR 65 MPH (SAND BARRELS)
- 🚚 VEHICLE WITH TRAILER MOUNTED ATTENUATOR
- 📢 CHANGEABLE MESSAGE BOARD
- ⋯ FLASHING ARROW PANEL
- ▬▬▬ TEMPORARY LONG-TERM RUMBLE STRIPS



PHASE 1
TRAFFIC CONTROL
SHEET 9 OF 23



THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED 12/1/2025	
ROUTE 13	STATE MO
DISTRICT SW	SHEET NO. 23
COUNTY POLK	
JOB NO. JSR0049	
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO. A9573	

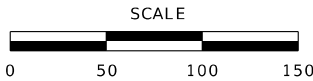
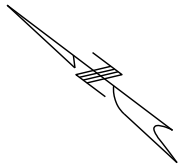
DESCRIPTION	DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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JEFFERSON CITY, MO 65102
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816-781-6182 816-781-0643 (FAX)
Certificate of Authority No. 2002006347



PHASING:

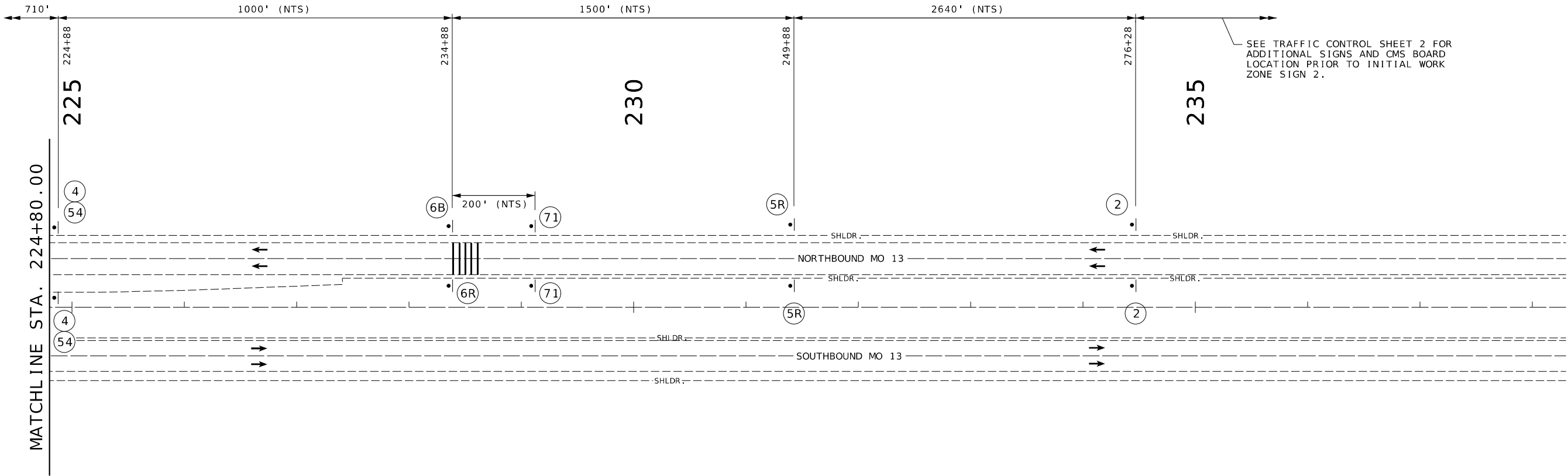
PHASE 1 - CONSTRUCT PERMANENT CROSSOVERS NORTH AND SOUTH OF THE BRIDGE. NO PAVEMENT MARKINGS.

PHASE 2 - INSTALL TEMPORARY PAVEMENT MARKINGS FOR TRAFFIC CONTROL. CONSTRUCT BRIDGE REPLACEMENT ON NORTHBOUND MO 13. REMOVE ALL TEMPORARY PAVEMENT MARKINGS FOR TRAFFIC CONTROL. INSTALL PERMANENT PAVEMENT MARKING & RUMBLE STRIPS.

PHASE 3 - BRIDGE/ROAD CONSTRUCTION COMPLETE. INSTALL TUBULAR MARKERS ON BOTH CROSSOVERS. NO PAVEMENT MARKINGS.

TRAFFIC CONTROL LEGEND

- PROPOSED SIGN (SINGLE SIDED)
- EXISTING SIGN (SINGLE SIDED)
- CHANNELIZER
- DIRECTIONAL INDICATOR BARRICADE
- TUBULAR MARKERS
- TYPE III MOVEABLE BARRICADE
- SEQUENTIAL FLASHING WARNING LIGHT
- TEMPORARY CONCRETE TRAFFIC BARRIER (TYPE F)
- IMPACT ATTENUATOR 65 MPH (SAND BARRELS)
- VEHICLE WITH TRAILER MOUNTED ATTENUATOR
- CHANGEABLE MESSAGE BOARD
- FLASHING ARROW PANEL
- TEMPORARY LONG-TERM RUMBLE STRIPS



(NTS) - NOT TO SCALE

PHASE 1
TRAFFIC CONTROL
SHEET 10 OF 23



THIS SHEET HAS BEEN
SIGNED, SEALED AND DATED
ELECTRONICALLY.

DATE PREPARED
12/1/2025

ROUTE
13

STATE
MO

DISTRICT
SW

SHEET NO.
24

COUNTY
POLK

JOB NO.
JSR0049

CONTRACT ID.

PROJECT NO.

BRIDGE NO.
A9573

DESCRIPTION	DATE

MISSOURI HIGHWAYS AND TRANSPORTATION
COMMISSION

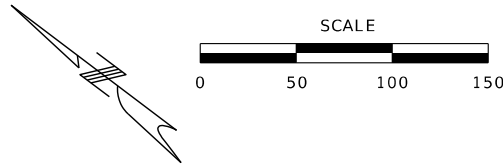
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NOTE:
FOR PAVEMENT MARKING DETAILS
SEE PAVEMENT MARKING SHEETS.

PHASING:

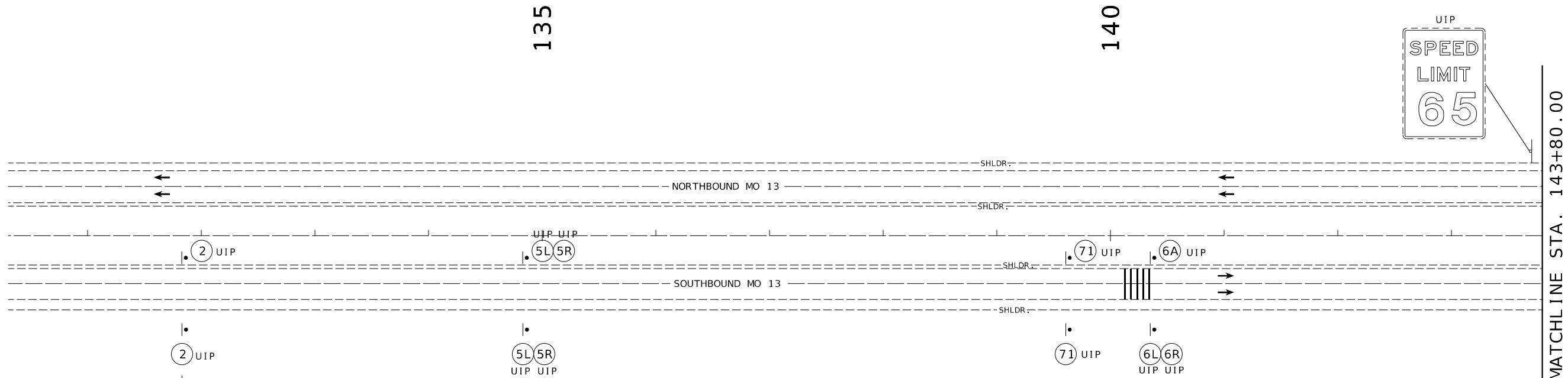
PHASE 1 - CONSTRUCT PERMANENT CROSSOVERS NORTH AND SOUTH OF THE
BRIDGE. NO PAVEMENT MARKINGS.

PHASE 2 - INSTALL TEMPORARY PAVEMENT MARKINGS FOR TRAFFIC CONTROL.
CONSTRUCT BRIDGE REPLACEMENT ON NORTHBOUND MO 13. REMOVE ALL
TEMPORARY PAVEMENT MARKINGS FOR TRAFFIC CONTROL. INSTALL PERMANENT
PAVEMENT MARKING & RUMBLE STRIPS.

PHASE 3 - BRIDGE/ROAD CONSTRUCTION COMPLETE. INSTALL TUBULAR MARKERS
ON BOTH CROSSOVERS. NO PAVEMENT MARKINGS.

TRAFFIC CONTROL LEGEND

- PROPOSED SIGN (SINGLE SIDED)
- EXISTING SIGN (SINGLE SIDED)
- CHANNELIZER
- ▼ DIRECTIONAL INDICATOR BARRICADE
- ◆ TUBULAR MARKERS
- [TYPE III MOVEABLE BARRICADE
- ◼ SEQUENTIAL FLASHING WARNING LIGHT
- ▬ TEMPORARY CONCRETE TRAFFIC BARRIER (TYPE F)
- IMPACT ATTENUATOR 65 MPH (SAND BARRELS)
- 🚚 VEHICLE WITH TRAILER MOUNTED ATTENUATOR
- 📺 CHANGEABLE MESSAGE BOARD
- ⬆ FLASHING ARROW PANEL
- ▬▬▬ TEMPORARY LONG-TERM RUMBLE STRIPS



98+95
UIP
ALL TRAFFIC CONTROL SIGNS AND CMS BOARD
LOCATED PRIOR TO INITIAL WORK ZONE SIGN 2
SHALL BE USED IN PLACE.

(NTS) - NOT TO SCALE

PHASE 2
TRAFFIC CONTROL
SHEET 11 OF 23



THIS SHEET HAS BEEN
SIGNED, SEALED AND DATED
ELECTRONICALLY.

DATE PREPARED

12/1/2025

ROUTE STATE

13 MO

DISTRICT SHEET NO.

SW 25

COUNTY

POLK

JOB NO.

JSR0049

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

A9573

DESCRIPTION

DATE

MISSOURI HIGHWAYS AND TRANSPORTATION
COMMISSION

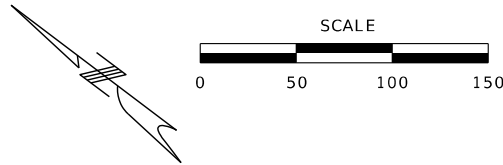
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105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

VEENSTRA
& KIMM INC.

A Kleinfelder Company

9788 N Ash Avenue
Kansas City, Missouri 64157
816-781-6182 816-781-0643 (FAX)
Certificate of Authority No. 2002006347



NOTE:
FOR PAVEMENT MARKING DETAILS
SEE PAVEMENT MARKING SHEETS.

PHASING:

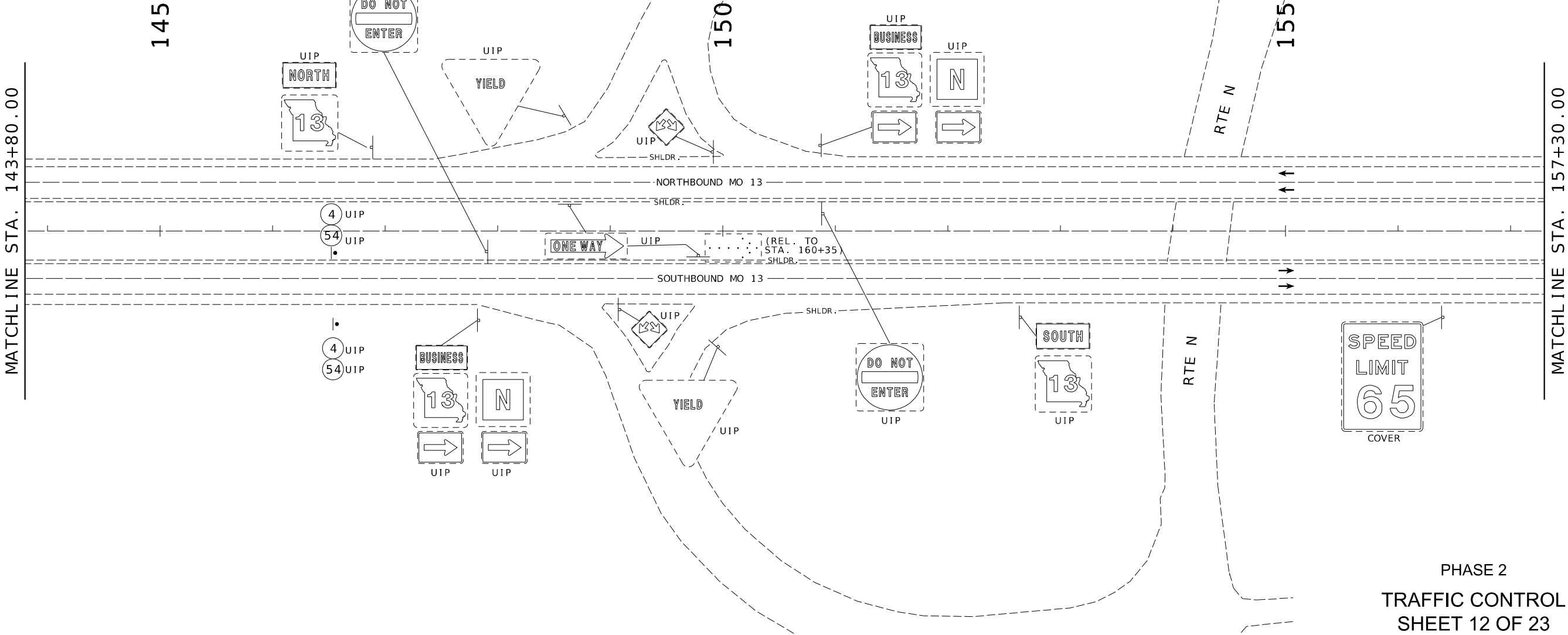
PHASE 1 - CONSTRUCT PERMANENT CROSSOVERS NORTH AND SOUTH OF THE BRIDGE. NO PAVEMENT MARKINGS.

PHASE 2 - INSTALL TEMPORARY PAVEMENT MARKINGS FOR TRAFFIC CONTROL. CONSTRUCT BRIDGE REPLACEMENT ON NORTHBOUND MO 13. REMOVE ALL TEMPORARY PAVEMENT MARKINGS FOR TRAFFIC CONTROL. INSTALL PERMANENT PAVEMENT MARKING & RUMBLE STRIPS.

PHASE 3 - BRIDGE/ROAD CONSTRUCTION COMPLETE. INSTALL TUBULAR MARKERS ON BOTH CROSSOVERS. NO PAVEMENT MARKINGS.

TRAFFIC CONTROL LEGEND

- PROPOSED SIGN (SINGLE SIDED)
- EXISTING SIGN (SINGLE SIDED)
- CHANNELIZER
- ▼ DIRECTIONAL INDICATOR BARRICADE
- ◆ TUBULAR MARKERS
- [TYPE III MOVEABLE BARRICADE
- ◼ SEQUENTIAL FLASHING WARNING LIGHT
- ▬ TEMPORARY CONCRETE TRAFFIC BARRIER (TYPE F)
- IMPACT ATTENUATOR 65 MPH (SAND BARRELS)
- 🚚 VEHICLE WITH TRAILER MOUNTED ATTENUATOR
- 📺 CHANGEABLE MESSAGE BOARD
- ⋯ FLASHING ARROW PANEL
- ▬▬▬ TEMPORARY LONG-TERM RUMBLE STRIPS



PHASE 2
TRAFFIC CONTROL
SHEET 12 OF 23



THIS SHEET HAS BEEN
SIGNED, SEALED AND DATED
ELECTRONICALLY.

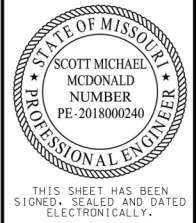
DATE PREPARED 12/1/2025	
ROUTE 13	STATE MO
DISTRICT SW	SHEET NO. 26
COUNTY POLK	
JOB NO. JSR0049	
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO. A9573	

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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Kansas City, Missouri 64157
816-781-6182 816-781-0643 (FAX)
Certificate of Authority No. 2002006347



DATE PREPARED	
12/1/2025	
ROUTE	STATE
13	MO
DISTRICT	SHEET NO.
SW	29
COUNTY	
POLK	
JOB NO.	
JSR0049	
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	
A9573	

[illegible]

MISSOURI HIGHWAYS AND TRANSPORTATION
COMMISSION

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

VEENSTRA & KIMM INC.
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9788 N Ash Avenue
Kansas City, Missouri 64157
816-781-6182
816-781-0643 (FAX)
Certificate of Authority No. 2002006347

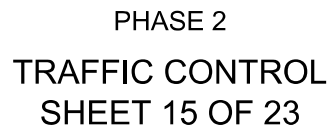
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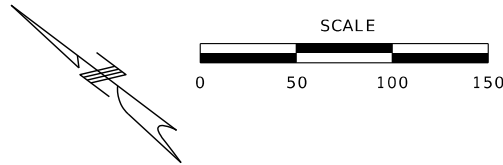
PHASE 1 - CONSTRUCT PERMANENT CROSSOVERS NORTH AND SOUTH OF THE BRIDGE. NO PAVEMENT MARKINGS.

PHASE 2 - INSTALL TEMPORARY PAVEMENT MARKINGS FOR TRAFFIC CONTROL. CONSTRUCT BRIDGE REPLACEMENT ON NORTHBOUND MO 13. REMOVE ALL TEMPORARY PAVEMENT MARKINGS FOR TRAFFIC CONTROL. INSTALL PERMANENT PAVEMENT MARKING & RUMBLE STRIPS.

PHASE 3 - BRIDGE/ROAD CONSTRUCTION COMPLETE. INSTALL TUBULAR MARKERS ON BOTH CROSSOVERS. NO PAVEMENT MARKINGS.

	PROPOSED SIGN (SINGLE SIDED)
	EXISTING SIGN (SINGLE SIDED)
	CHANNELIZER
	DIRECTIONAL INDICATOR BARRICADE
	TUBULAR MARKERS
	TYPE III MOVEABLE BARRICADE
	SEQUENTIAL FLASHING WARNING LIGHT
	TEMPORARY CONCRETE TRAFFIC BARRIER (TYPE F)
	IMPACT ATTENUATOR 65 MPH (SAND BARRELS)
	VEHICLE WITH TRAILER MOUNTED ATTENUATOR
	CHANGEABLE MESSAGE BOARD
	FLASHING ARROW PANEL
	TEMPORARY LONG-TERM RUMBLE STRIPS





NOTE:
FOR PAVEMENT MARKING DETAILS
SEE PAVEMENT MARKING SHEETS.

PHASING:

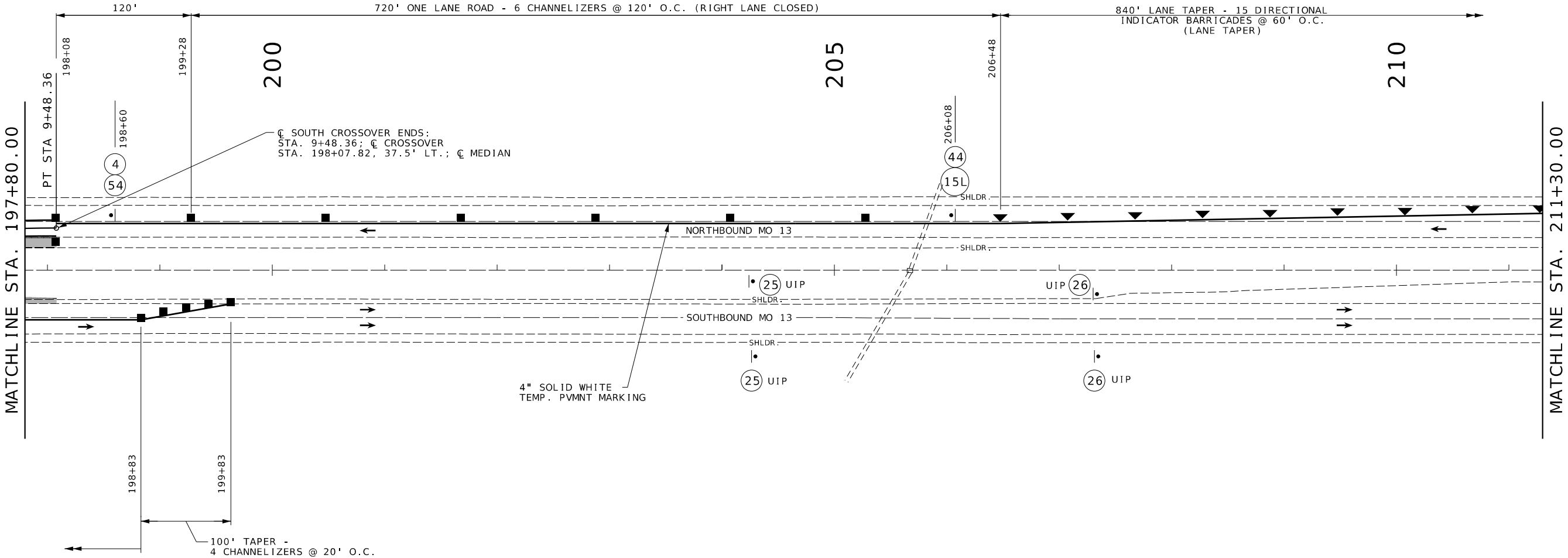
PHASE 1 - CONSTRUCT PERMANENT CROSSOVERS NORTH AND SOUTH OF THE
BRIDGE. NO PAVEMENT MARKINGS.

PHASE 2 - INSTALL TEMPORARY PAVEMENT MARKINGS FOR TRAFFIC CONTROL.
CONSTRUCT BRIDGE REPLACEMENT ON NORTHBOUND MO 13. REMOVE ALL
TEMPORARY PAVEMENT MARKINGS FOR TRAFFIC CONTROL. INSTALL PERMANENT
PAVEMENT MARKING & RUMBLE STRIPS.

PHASE 3 - BRIDGE/ROAD CONSTRUCTION COMPLETE. INSTALL TUBULAR MARKERS
ON BOTH CROSSOVERS. NO PAVEMENT MARKINGS.

TRAFFIC CONTROL LEGEND

- PROPOSED SIGN (SINGLE SIDED)
- EXISTING SIGN (SINGLE SIDED)
- CHANNELIZER
- ▼ DIRECTIONAL INDICATOR BARRICADE
- ◆ TUBULAR MARKERS
- [TYPE III MOVEABLE BARRICADE
- ◼ SEQUENTIAL FLASHING WARNING LIGHT
- ▬ TEMPORARY CONCRETE TRAFFIC BARRIER (TYPE F)
- IMPACT ATTENUATOR 65 MPH (SAND BARRELS)
- 🚚 VEHICLE WITH TRAILER MOUNTED ATTENUATOR
- 📢 CHANGEABLE MESSAGE BOARD
- ⋯ FLASHING ARROW PANEL
- ▬▬▬ TEMPORARY LONG-TERM RUMBLE STRIPS



PHASE 2
TRAFFIC CONTROL
SHEET 16 OF 23



THIS SHEET HAS BEEN
SIGNED, SEALED AND DATED
ELECTRONICALLY.

DATE PREPARED 12/1/2025	
ROUTE 13	STATE MO
DISTRICT SW	SHEET NO. 30
COUNTY POLK	
JOB NO. JSR0049	
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO. A9573	

DESCRIPTION	DATE

MISSOURI HIGHWAYS AND TRANSPORTATION
COMMISSION

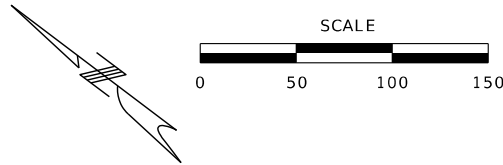
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105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

VEENSTRA & KIMM INC.

A Kleinfelder Company

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Kansas City, Missouri 64157
816-781-6182 816-781-0643 (FAX)
Certificate of Authority No. 2002006347



NOTE:
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PHASING:

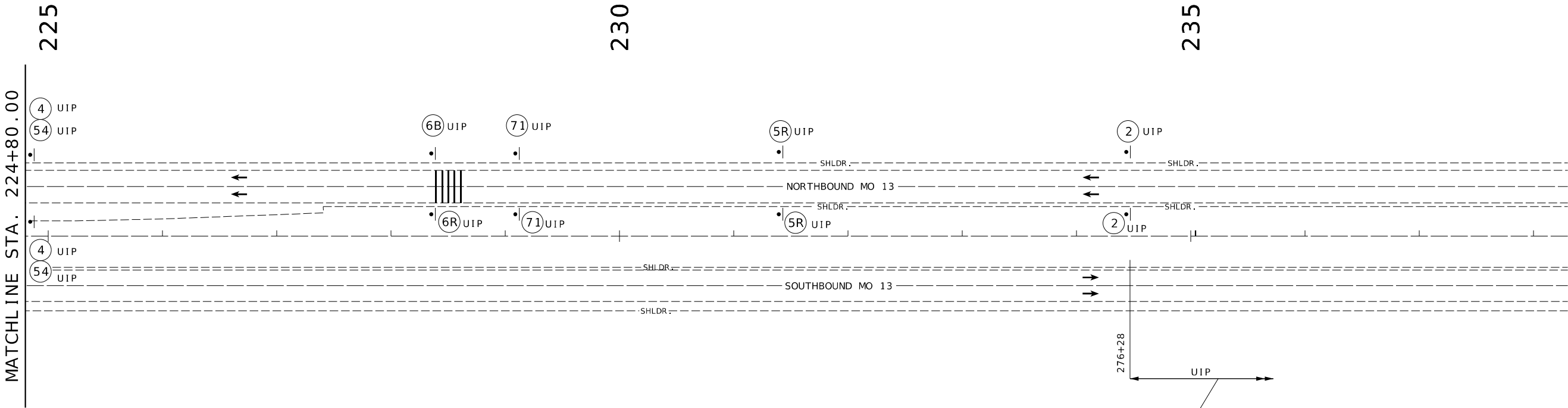
PHASE 1 - CONSTRUCT PERMANENT CROSSOVERS NORTH AND SOUTH OF THE
BRIDGE. NO PAVEMENT MARKINGS.

PHASE 2 - INSTALL TEMPORARY PAVEMENT MARKINGS FOR TRAFFIC CONTROL.
CONSTRUCT BRIDGE REPLACEMENT ON NORTHBOUND MO 13. REMOVE ALL
TEMPORARY PAVEMENT MARKINGS FOR TRAFFIC CONTROL. INSTALL PERMANENT
PAVEMENT MARKING & RUMBLE STRIPS.

PHASE 3 - BRIDGE/ROAD CONSTRUCTION COMPLETE. INSTALL TUBULAR MARKERS
ON BOTH CROSSOVERS. NO PAVEMENT MARKINGS.

TRAFFIC CONTROL LEGEND

- PROPOSED SIGN (SINGLE SIDED)
- ◊ EXISTING SIGN (SINGLE SIDED)
- CHANNELIZER
- ▼ DIRECTIONAL INDICATOR BARRICADE
- ◆ TUBULAR MARKERS
- [TYPE III MOVEABLE BARRICADE
- ◼ SEQUENTIAL FLASHING WARNING LIGHT
- ▬ TEMPORARY CONCRETE TRAFFIC BARRIER (TYPE F)
- IMPACT ATTENUATOR 65 MPH (SAND BARRELS)
- 🚚 VEHICLE WITH TRAILER MOUNTED ATTENUATOR
- 📢 CHANGEABLE MESSAGE BOARD
- ⬆️ FLASHING ARROW PANEL
- ▬▬▬▬ TEMPORARY LONG-TERM RUMBLE STRIPS



(NTS) - NOT TO SCALE

PHASE 2
TRAFFIC CONTROL
SHEET 18 OF 23



THIS SHEET HAS BEEN
SIGNED, SEALED AND DATED
ELECTRONICALLY.

DATE PREPARED 12/1/2025	
ROUTE 13	STATE MO
DISTRICT SW	SHEET NO. 32
COUNTY POLK	
JOB NO. JSR0049	
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO. A9573	

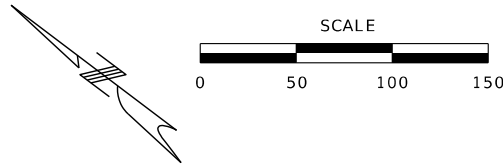
DESCRIPTION	DATE

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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A Kleinfelder Company

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Kansas City, Missouri 64157
816-781-6182 816-781-0643 (FAX)
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PHASING:

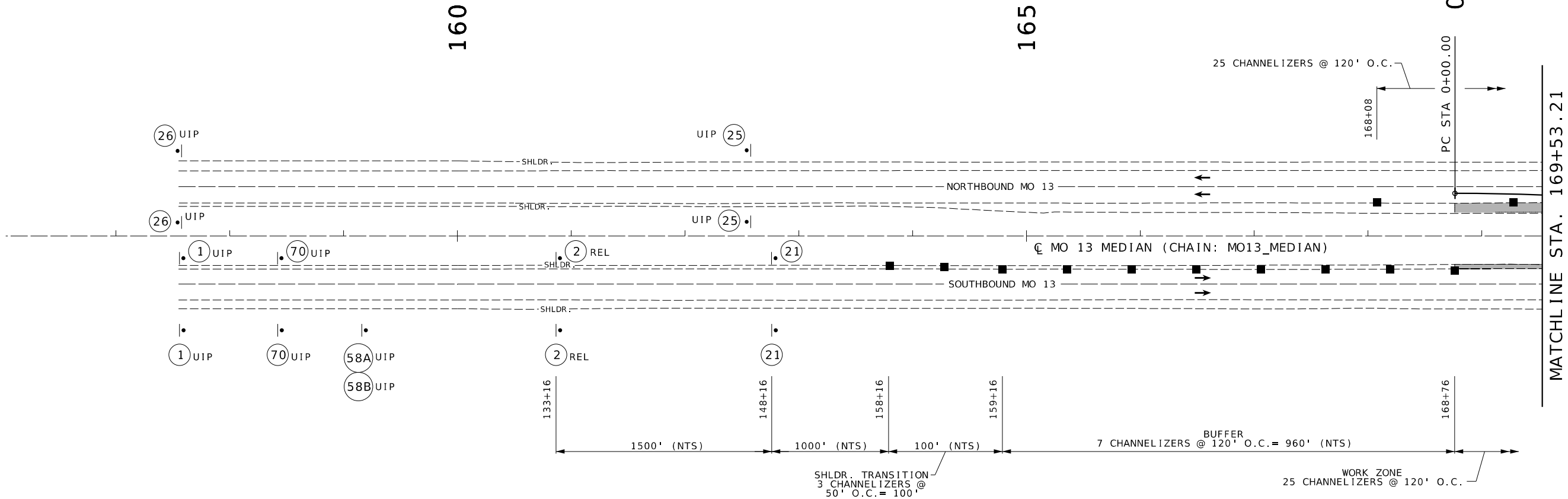
PHASE 1 - CONSTRUCT PERMANENT CROSSOVERS NORTH AND SOUTH OF THE BRIDGE. NO PAVEMENT MARKINGS.

PHASE 2 - INSTALL TEMPORARY PAVEMENT MARKINGS FOR TRAFFIC CONTROL. CONSTRUCT BRIDGE REPLACEMENT ON NORTHBOUND MO 13. REMOVE ALL TEMPORARY PAVEMENT MARKINGS FOR TRAFFIC CONTROL. INSTALL PERMANENT PAVEMENT MARKING & RUMBLE STRIPS.

PHASE 3 - BRIDGE/ROAD CONSTRUCTION COMPLETE. INSTALL TUBULAR MARKERS ON BOTH CROSSOVERS. NO PAVEMENT MARKINGS.

TRAFFIC CONTROL LEGEND

- PROPOSED SIGN (SINGLE SIDED)
- ◊ EXISTING SIGN (SINGLE SIDED)
- CHANNELIZER
- ▼ DIRECTIONAL INDICATOR BARRICADE
- ◆ TUBULAR MARKERS
- [TYPE III MOVEABLE BARRICADE
- ◼ SEQUENTIAL FLASHING WARNING LIGHT
- ▬ TEMPORARY CONCRETE TRAFFIC BARRIER (TYPE F)
- IMPACT ATTENUATOR 65 MPH (SAND BARRELS)
- 🚚 VEHICLE WITH TRAILER MOUNTED ATTENUATOR
- 📢 CHANGEABLE MESSAGE BOARD
- ⋯ FLASHING ARROW PANEL
- ▬▬▬ TEMPORARY LONG-TERM RUMBLE STRIPS



(NTS) - NOT TO SCALE

PHASE 3
TRAFFIC CONTROL
SHEET 19 OF 23



THIS SHEET HAS BEEN
SIGNED, SEALED AND DATED
ELECTRONICALLY.

DATE PREPARED 12/1/2025	
ROUTE 13	STATE MO
DISTRICT SW	SHEET NO. 33
COUNTY POLK	
JOB NO. JSR0049	
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO. A9573	

DESCRIPTION	DATE

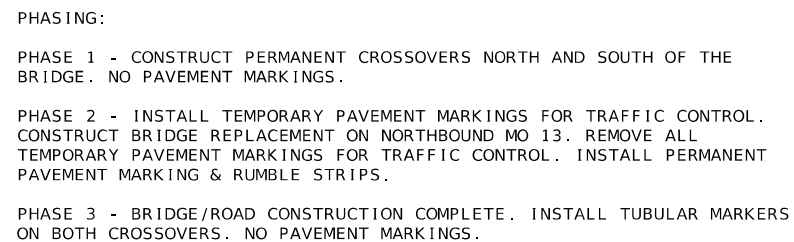
MISSOURI HIGHWAYS AND TRANSPORTATION
COMMISSION

MoDOT

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

VEENSTRA & KIMM INC.
A Kleinfelder Company

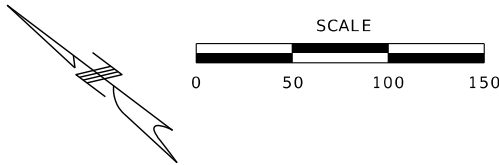
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Certificate of Authority No. 2002006347



- | | |
|---|---|
|  | PROPOSED SIGN (SINGLE SIDED) |
|  | EXISTING SIGN (SINGLE SIDED) |
|  | CHANNELIZER |
|  | DIRECTIONAL INDICATOR BARRICADE |
|  | TUBULAR MARKERS |
|  | TYPE III MOVEABLE BARRICADE |
|  | SEQUENTIAL FLASHING WARNING LIGHT |
|  | TEMPORARY CONCRETE TRAFFIC BARRIER (TYPE F) |
|  | IMPACT ATTENUATOR 65 MPH (SAND BARRELS) |
|  | VEHICLE WITH TRAILER MOUNTED ATTENUATOR |
|  | CHANGEABLE MESSAGE BOARD |
|  | FLASHING ARROW PANEL |
|  | TEMPORARY LONG-TERM RUMBLE STRIPS |

PHASE 3
TRAFFIC CONTROL
SHEET 20 OF 23

A Kleinfelder Company
7798 N Ash Avenue Kansas City, Missouri 64157
816-781-6182 816-781-0643 (FAX)
Certificate of Authority No. 2002006347



PHASING:

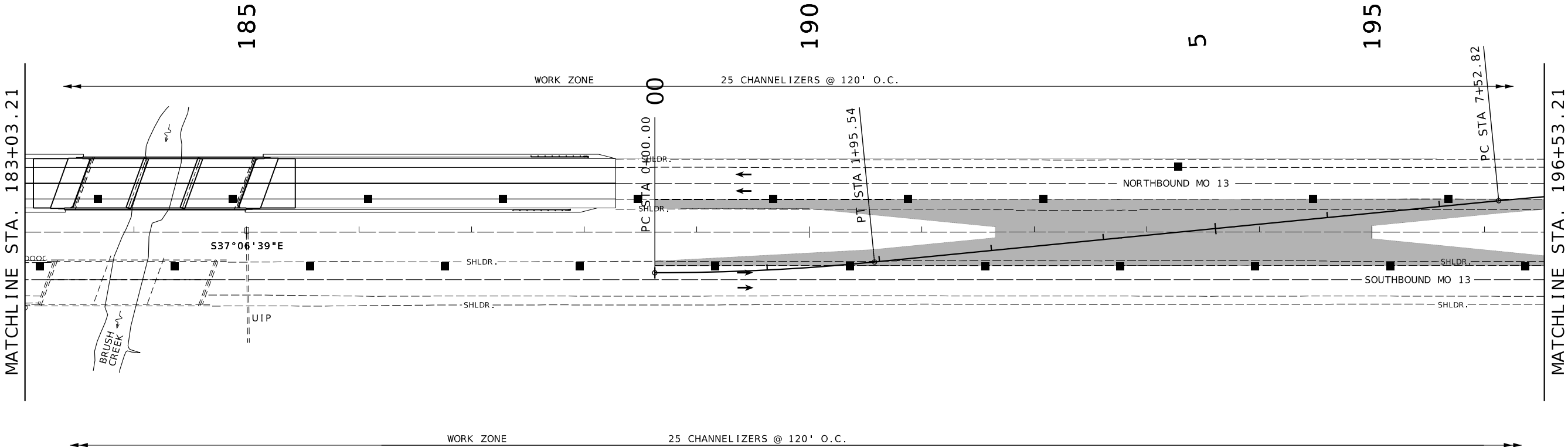
PHASE 1 - CONSTRUCT PERMANENT CROSSOVERS NORTH AND SOUTH OF THE BRIDGE. NO PAVEMENT MARKINGS.

PHASE 2 - INSTALL TEMPORARY PAVEMENT MARKINGS FOR TRAFFIC CONTROL. CONSTRUCT BRIDGE REPLACEMENT ON NORTHBOUND MO 13. REMOVE ALL TEMPORARY PAVEMENT MARKINGS FOR TRAFFIC CONTROL. INSTALL PERMANENT PAVEMENT MARKING & RUMBLE STRIPS.

PHASE 3 - BRIDGE/ROAD CONSTRUCTION COMPLETE. INSTALL TUBULAR MARKERS ON BOTH CROSSOVERS. NO PAVEMENT MARKINGS.

TRAFFIC CONTROL LEGEND

- PROPOSED SIGN (SINGLE SIDED)
- EXISTING SIGN (SINGLE SIDED)
- CHANNELIZER
- DIRECTIONAL INDICATOR BARRICADE
- TUBULAR MARKERS
- TYPE III MOVEABLE BARRICADE
- SEQUENTIAL FLASHING WARNING LIGHT
- TEMPORARY CONCRETE TRAFFIC BARRIER (TYPE F)
- IMPACT ATTENUATOR 65 MPH (SAND BARRELS)
- VEHICLE WITH TRAILER MOUNTED ATTENUATOR
- CHANGEABLE MESSAGE BOARD
- FLASHING ARROW PANEL
- TEMPORARY LONG-TERM RUMBLE STRIPS



PHASE 3
TRAFFIC CONTROL
SHEET 21 OF 23



THIS SHEET HAS BEEN
SIGNED, SEALED AND DATED
ELECTRONICALLY.

DATE PREPARED 12/1/2025	
ROUTE 13	STATE MO
DISTRICT SW	SHEET NO. 35
COUNTY POLK	
JOB NO. JSR0049	
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO. A9573	

DATE	DESCRIPTION

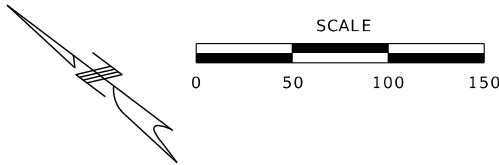
MISSOURI HIGHWAYS AND TRANSPORTATION
COMMISSION

MoDOT

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

VEENSTRA & KIMM INC.
A Kleinfelder Company

9788 N Ash Avenue
Kansas City, Missouri 64157
816-781-6182 816-781-0643 (FAX)
Certificate of Authority No. 2002006347



PHASING:

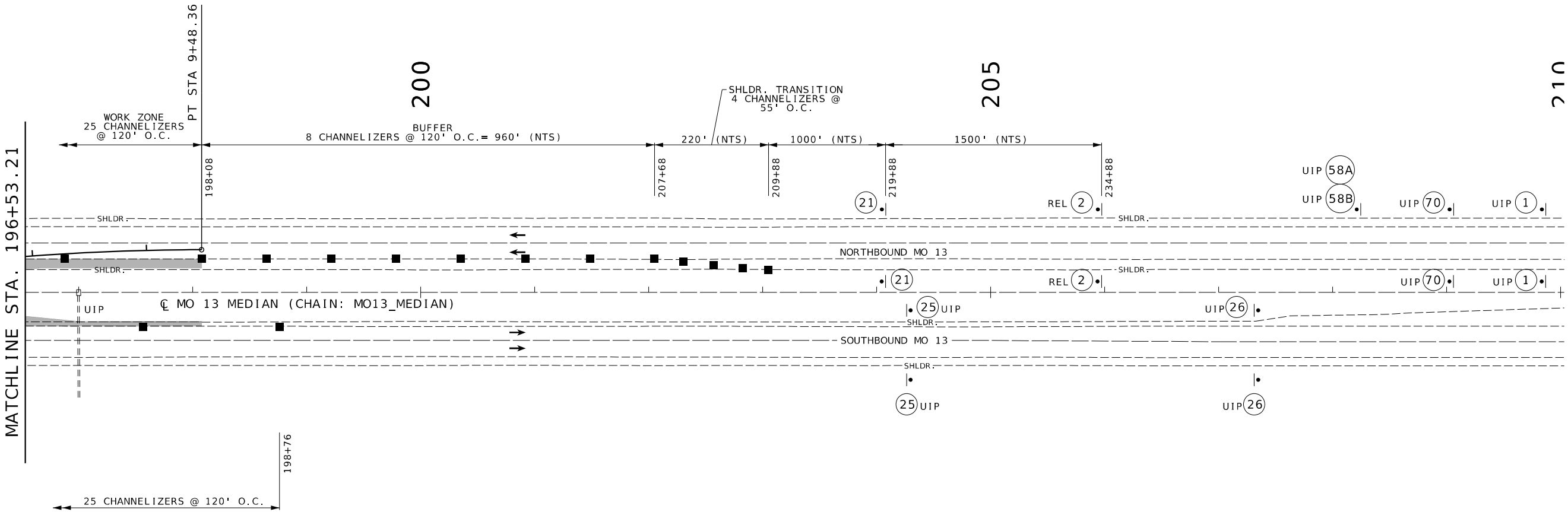
PHASE 1 - CONSTRUCT PERMANENT CROSSOVERS NORTH AND SOUTH OF THE BRIDGE. NO PAVEMENT MARKINGS.

PHASE 2 - INSTALL TEMPORARY PAVEMENT MARKINGS FOR TRAFFIC CONTROL. CONSTRUCT BRIDGE REPLACEMENT ON NORTHBOUND MO 13. REMOVE ALL TEMPORARY PAVEMENT MARKINGS FOR TRAFFIC CONTROL. INSTALL PERMANENT PAVEMENT MARKING & RUMBLE STRIPS.

PHASE 3 - BRIDGE/ROAD CONSTRUCTION COMPLETE. INSTALL TUBULAR MARKERS ON BOTH CROSSOVERS. NO PAVEMENT MARKINGS.

TRAFFIC CONTROL LEGEND

- PROPOSED SIGN (SINGLE SIDED)
- EXISTING SIGN (SINGLE SIDED)
- CHANNELIZER
- ▼ DIRECTIONAL INDICATOR BARRICADE
- ◆ TUBULAR MARKERS
- [TYPE III MOVEABLE BARRICADE
- ◼ SEQUENTIAL FLASHING WARNING LIGHT
- ▬ TEMPORARY CONCRETE TRAFFIC BARRIER (TYPE F)
- IMPACT ATTENUATOR 65 MPH (SAND BARRELS)
- 🚚 VEHICLE WITH TRAILER MOUNTED ATTENUATOR
- 📢 CHANGEABLE MESSAGE BOARD
- ⋯ FLASHING ARROW PANEL
- ▬▬▬ TEMPORARY LONG-TERM RUMBLE STRIPS



(NTS) - NOT TO SCALE

PHASE 3
TRAFFIC CONTROL
SHEET 22 OF 23



THIS SHEET HAS BEEN
SIGNED, SEALED AND DATED
ELECTRONICALLY.

DATE PREPARED 12/1/2025	
ROUTE 13	STATE MO
DISTRICT SW	SHEET NO. 36
COUNTY POLK	
JOB NO. JSR0049	
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO. A9573	

DESCRIPTION	DATE

MISSOURI HIGHWAYS AND TRANSPORTATION
COMMISSION

MoDOT

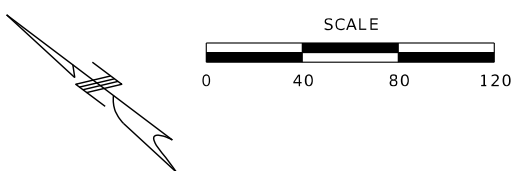
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

VEENSTRA & KIMM INC.
A Kleinfelder Company

9788 N Ash Avenue
Kansas City, Missouri 64157
816-781-0643 (FAX)
Certificate of Authority No. 2002006347

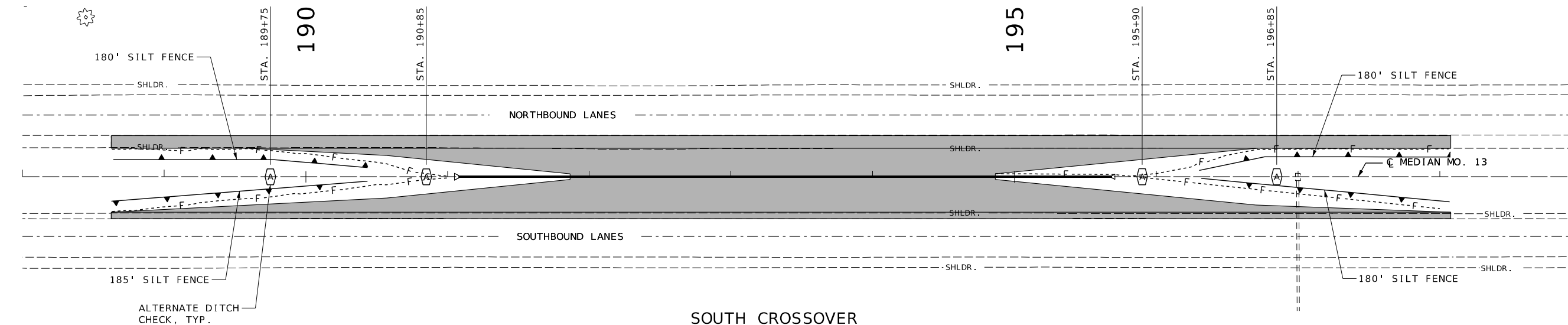
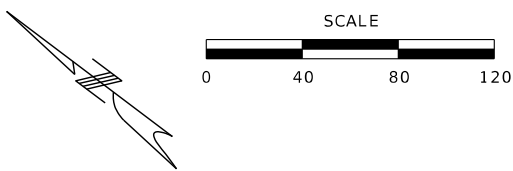
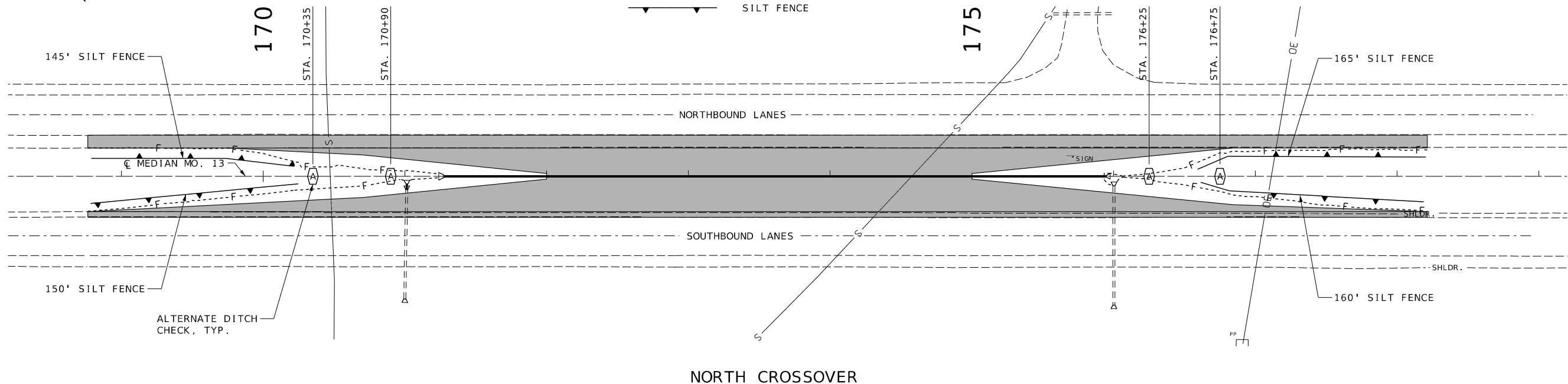


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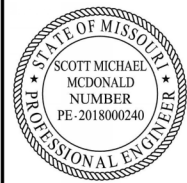


TEMPORARY EROSION CONTROL LEGEND

- (A) ALTERNATE DITCH CHECK
(D) DROP INLET CHECK
SILT FENCE



EROSION CONTROL
SHEET 1 OF 2



THIS SHEET HAS BEEN
SIGNED, SEALED AND DATED
ELECTRONICALLY.

DATE PREPARED 12/1/2025	
ROUTE 13	STATE MO
DISTRICT SW	SHEET NO. 38
COUNTY POLK	
JOB NO. JSR0049	
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO. A9573	

DESCRIPTION	DATE

MISSOURI HIGHWAYS AND TRANSPORTATION
COMMISSION

MoDOT

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

VEENSTRA & KIMM INC.
A Kleinfelder Company

9788 N Ash Avenue
Kansas City, Missouri 64157
816-781-0643 (FAX)
Certificate of Authority No. 2002006347

	ALTERNATE DITCH CHECK
	DROP INLET CHECK
	SILT FENCE



12/1/2025

DISTRICT	SHEET NO
SW	39

JOB NO.
JSR0049

PROJECT NO.

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

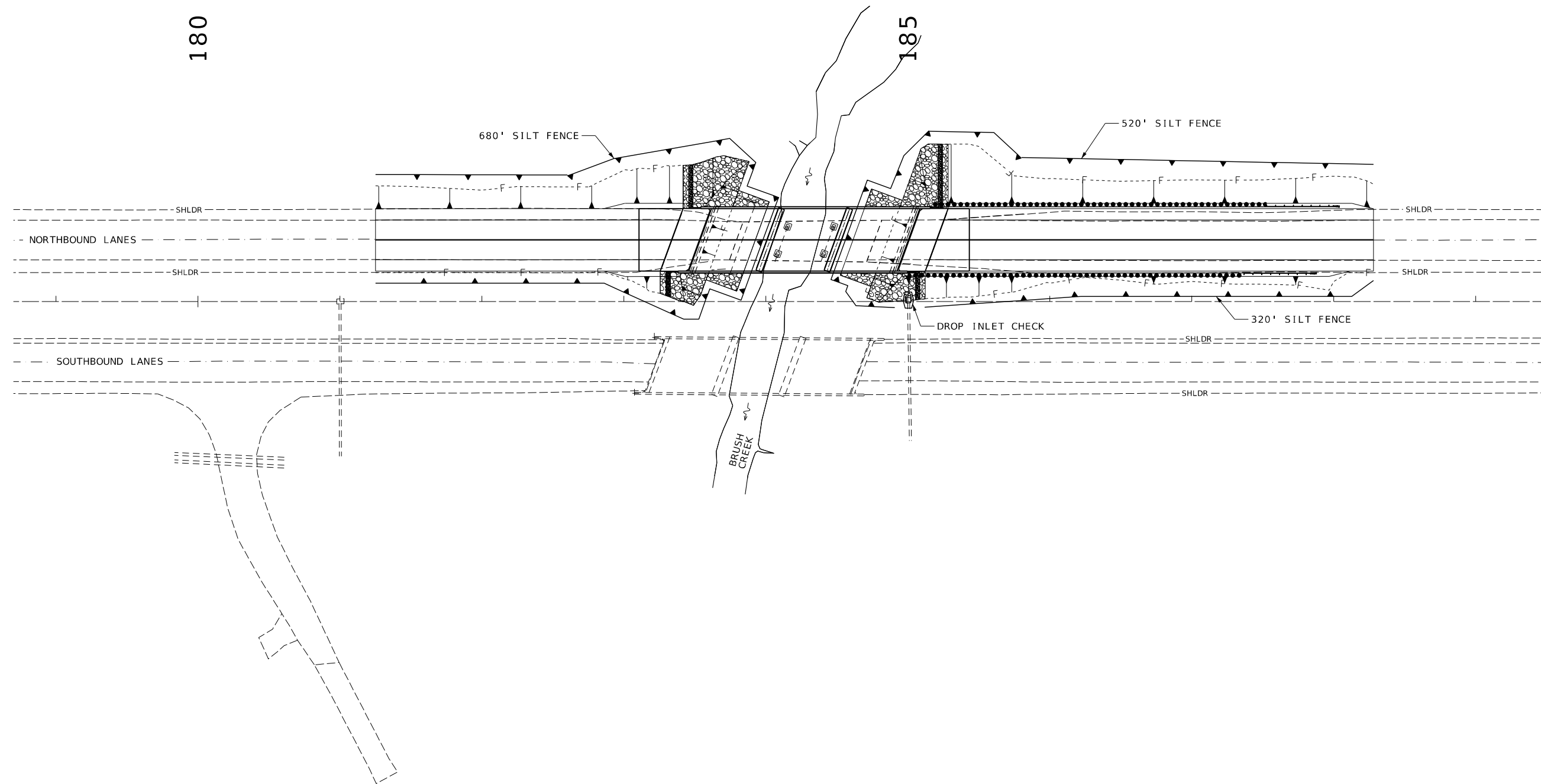
**VEENSTRA
& KIMM INC.**

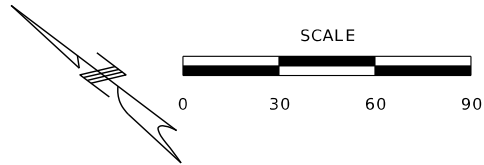
A Kleinfelder Company

9788 N Ash Avenue
Kansas City, Missouri 64157
816-781-6182
816-781-0643 (FAX)

Certificate of Authority No. 2002006347

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SIGN LOCATIONS		
SIGN NO.	STATION	OFFSET
1	175+72	9.0' LT.

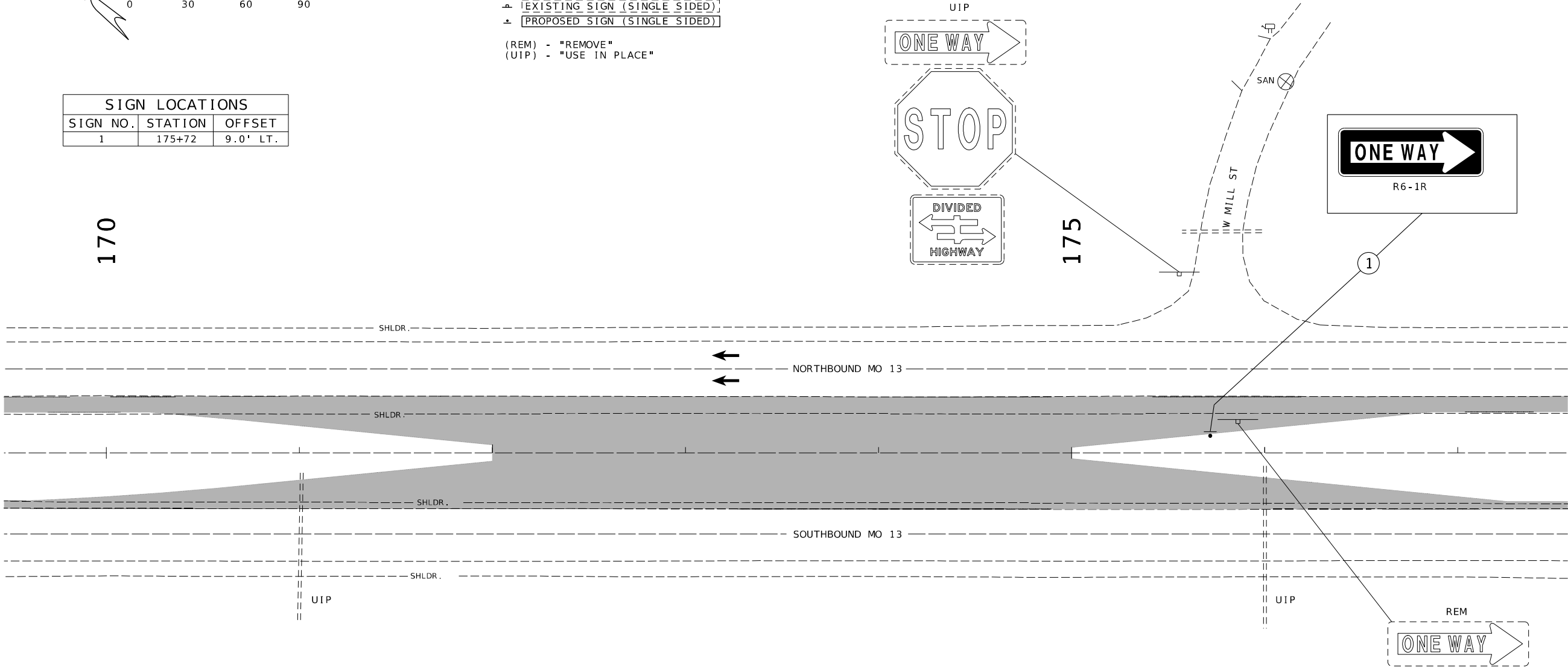
SIGNING LEGEND

- ⬆ [EXISTING SIGN (SINGLE SIDED)]
⬆ [PROPOSED SIGN (SINGLE SIDED)]

(REM) - "REMOVE"
(UIP) - "USE IN PLACE"

NOTES:

ALL EXISTING SIGNS AND POSTS THAT ARE REMOVED SHALL BE DELIVERED TO THE MODOT MAINTENANCE LOCATION PER THE JOB SPECIAL PROVISIONS.



SIGNING
SHEET 1 OF 4



THIS SHEET HAS BEEN
SIGNED, SEALED AND DATED
ELECTRONICALLY.

DATE PREPARED 12/1/2025	
ROUTE 13	STATE MO
DISTRICT SW	SHEET NO. 40
COUNTY POLK	
JOB NO. JSR0049	
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO. A9573	

DESCRIPTION	DATE

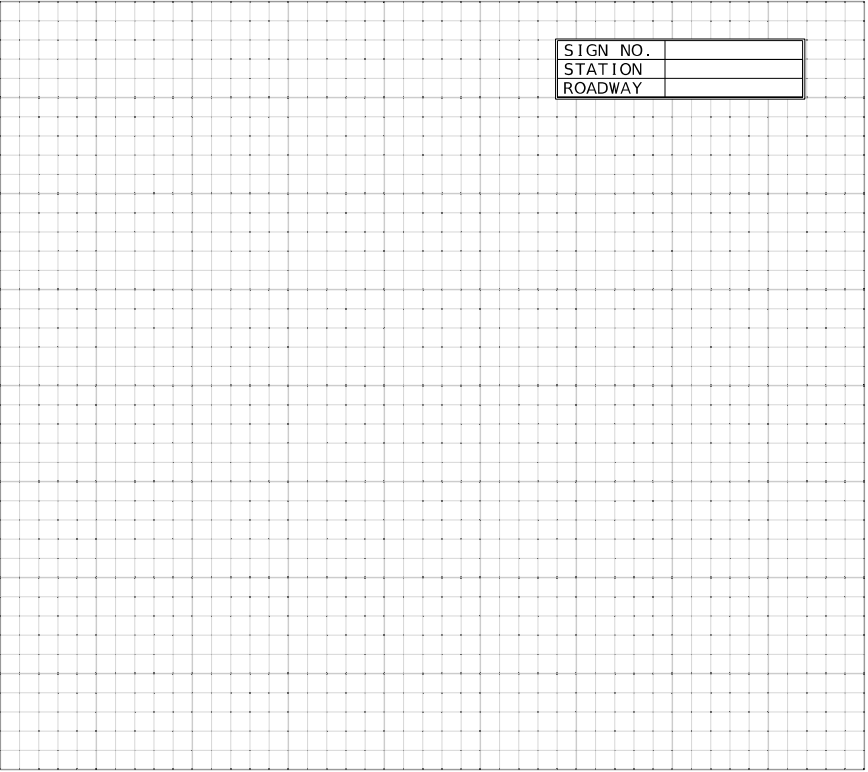
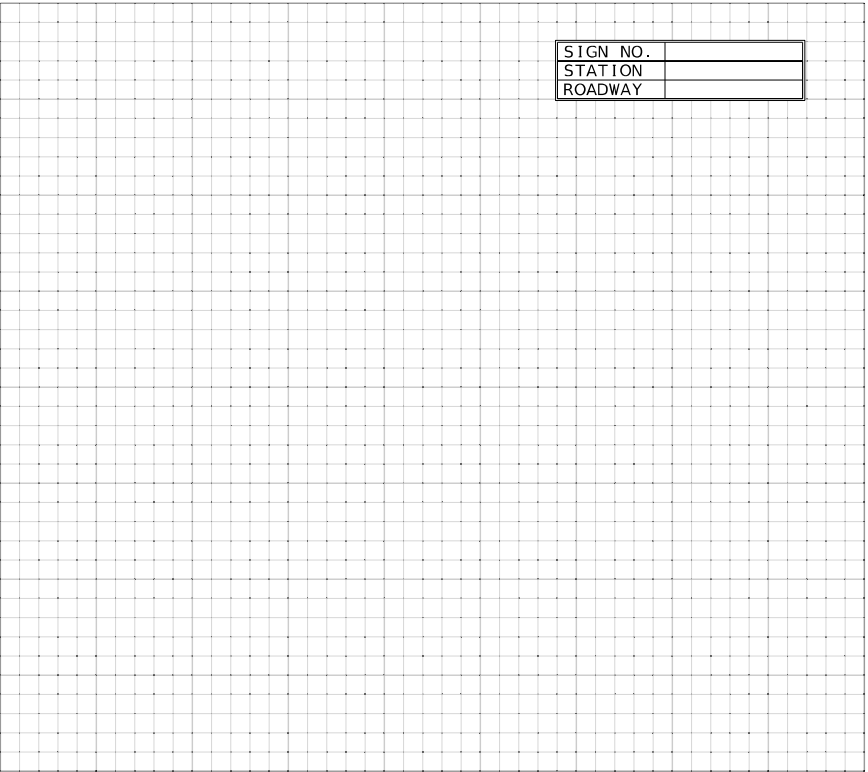
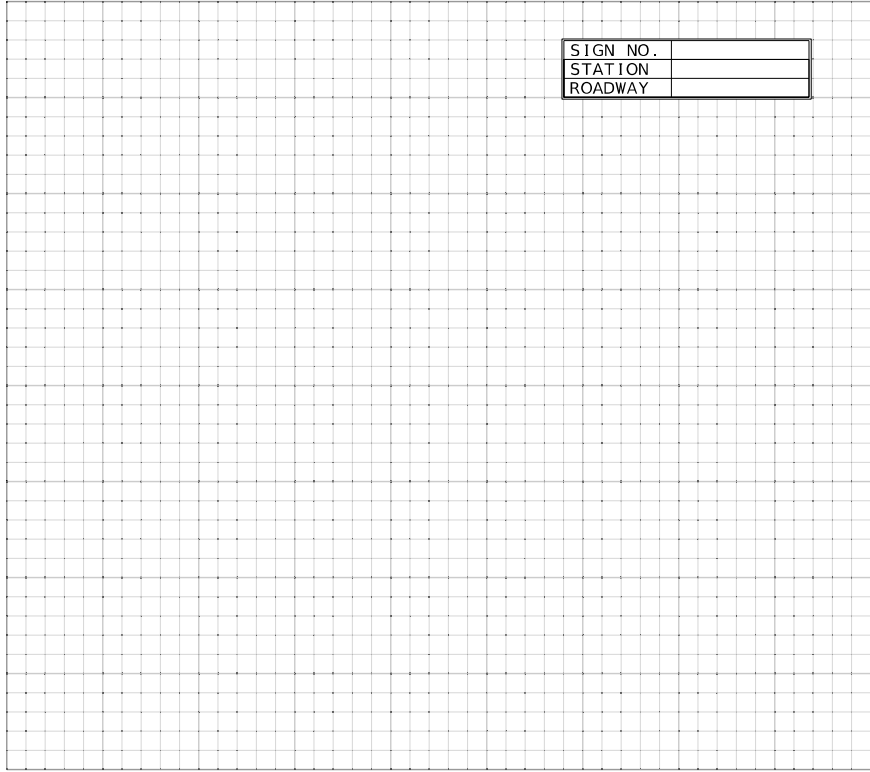
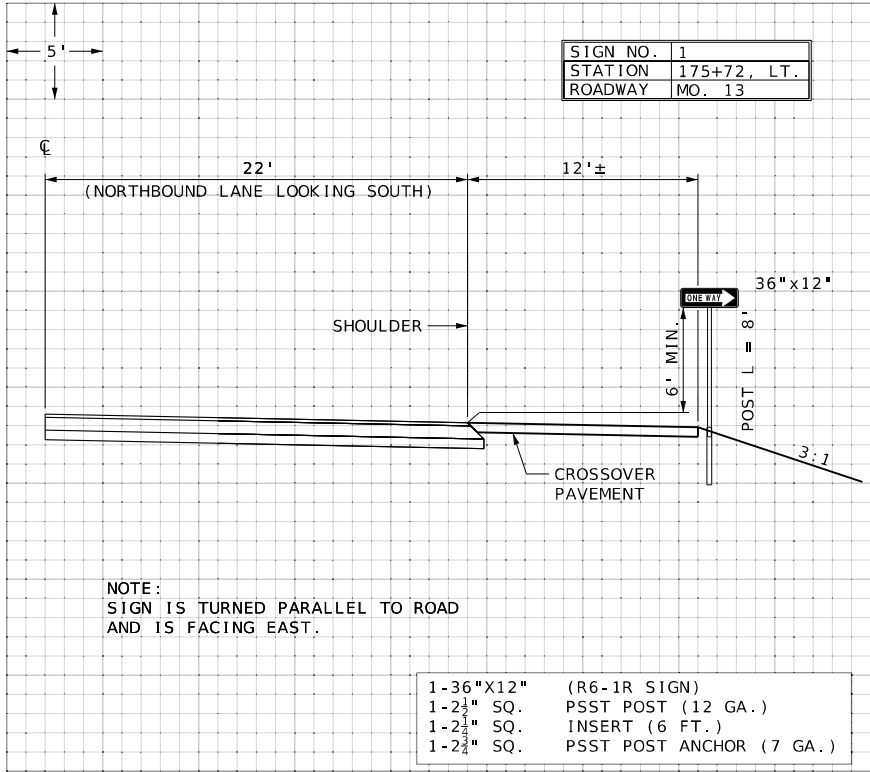
MISSOURI HIGHWAYS AND TRANSPORTATION
COMMISSION

MODOT

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

VEENSTRA & KIMM INC.
A Kleinfelder Company

9788 N Ash Avenue
Kansas City, Missouri 64157
816-781-6182 816-781-0643 (FAX)
Certificate of Authority No. 2002006347



THIS SHEET HAS BEEN
SIGNED, SEALED AND DATED
ELECTRONICALLY.

DATE PREPARED 12/1/2025	
ROUTE 13	STATE MO
DISTRICT SW	SHEET NO. 41
COUNTY POLK	
JOB NO. JSR0049	
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO. A9573	

DESCRIPTION	DATE

MISSOURI HIGHWAYS AND TRANSPORTATION
COMMISSION



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



**VEENSTRA
& KIMM INC.**
A Kleinfelder Company
9788 N Ash Avenue
Kansas City, Missouri 64157
816-781-6182 816-781-0643 (FAX)
Certificate of Authority No. 2002006347

SIGNS

902 SIGNAL SIGNS TABULATED ON D-37A SHEET

SIGN NO.

SIGN SIZE

STATION OR LOG MILE

HORIZ 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

POST NO. 2

POST NO. 3

LBS PER FT

TOTAL

ITEM NO. 9031210

LBS

PIPE POSTS*

PIPE SIZE

POST NO. 1

POST NO. 2

LBS PER FT

TOTAL

ITEM NO. 9031220

LBS

BACKING BARS**

2" X 3/8" BARS AT 2.55 LBS/FT

ITEM NO. 9031250A

LF

U-CHANNEL POST

POST NO. 1

POST NO. 2

ITEM NO. 9031270A

LF

LF

PERFORATED SQUARE STEEL TUBE

2-INCH POST

ANCHORS

DRIVEN 12 GA.

DRIVEN 7 GA.

CONCRETE 7 GA.

POST NO. 1

POST NO. 2

ITEM NO. 9031271A

ITEM NO. 9031273A

ITEM NO. 9031274

LF

LF

2.5-INCH POST

ANCHORS

2.25" INSERT (6 FT)

DRIVEN 7 GA.

CONCRETE 7 GA.

ITEM NO. 9031280

ITEM NO. 9031272A

ITEM NO. 9031281A

ITEM NO. 9031285

ITEM NO. 9031241

LF

LF

LF

EACH

EACH

EACH

EACH

BREAK-AWAY ASSEMBLY

ITEM NO. 9031241

EACH

REMARKS AND OTHER REQUIRED ITEMS

DATE PREPARED

12/1/2025

ROUTE

13

STATE

MO

DISTRICT

SW

SHEET NO.

42

COUNTY

POLK

JOB NO.

JSR0049

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

A9573

DESCRIPTION

DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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

VEENSTRA & KIMM INC.

A Kleinfelder Company

9788 N Ash Avenue Kansas City, Missouri 64157 816-781-6182 816-781-0643 (FAX) Certificate of Authority No. 2002006347

ROUND PIPE POST AND FOOTING DATA TABLE

NOM. SIZE		WEIGHT		STUB LENGTH	FOOTING		CONCRETE
(IN.)	LBS/FT	LBS/IN	DIA.		DEPTH	C.Y.	
2 1/2	5.79	0.48	4'- 3/4"	12"	4'-6"	0.13	
4	10.79	0.90	5'- 3/4"	18"	5'-6"	0.36	

STRUCTURAL STEEL POST AND FOOTING DATA TABLE

POST DES. NO.	NOM. SIZE	POST WEIGHT		STUB LENGTH	DIA.	FOOTING									
		LBS/FT	LBS/IN			LEVEL	GROUND	6:1 GRADE		4:1 GRADE		3:1 OR 2:1 GRADE			
						DEPTH	C.Y.	DEPTH	C.Y.	DEPTH	C.Y.	DEPTH	C.Y.	DEPTH	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		

SIGNING SHEET 3 OF 4

D-29

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DATE PREPARED
12/1/2025

DISTRICT	SHEET NO.
SW	43

JOB NO.
LSB0049

PROJECT NO.

BRIDGE NO.
A9573

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DEPARTMENT OF HEALTH AND HUMAN SERVICES

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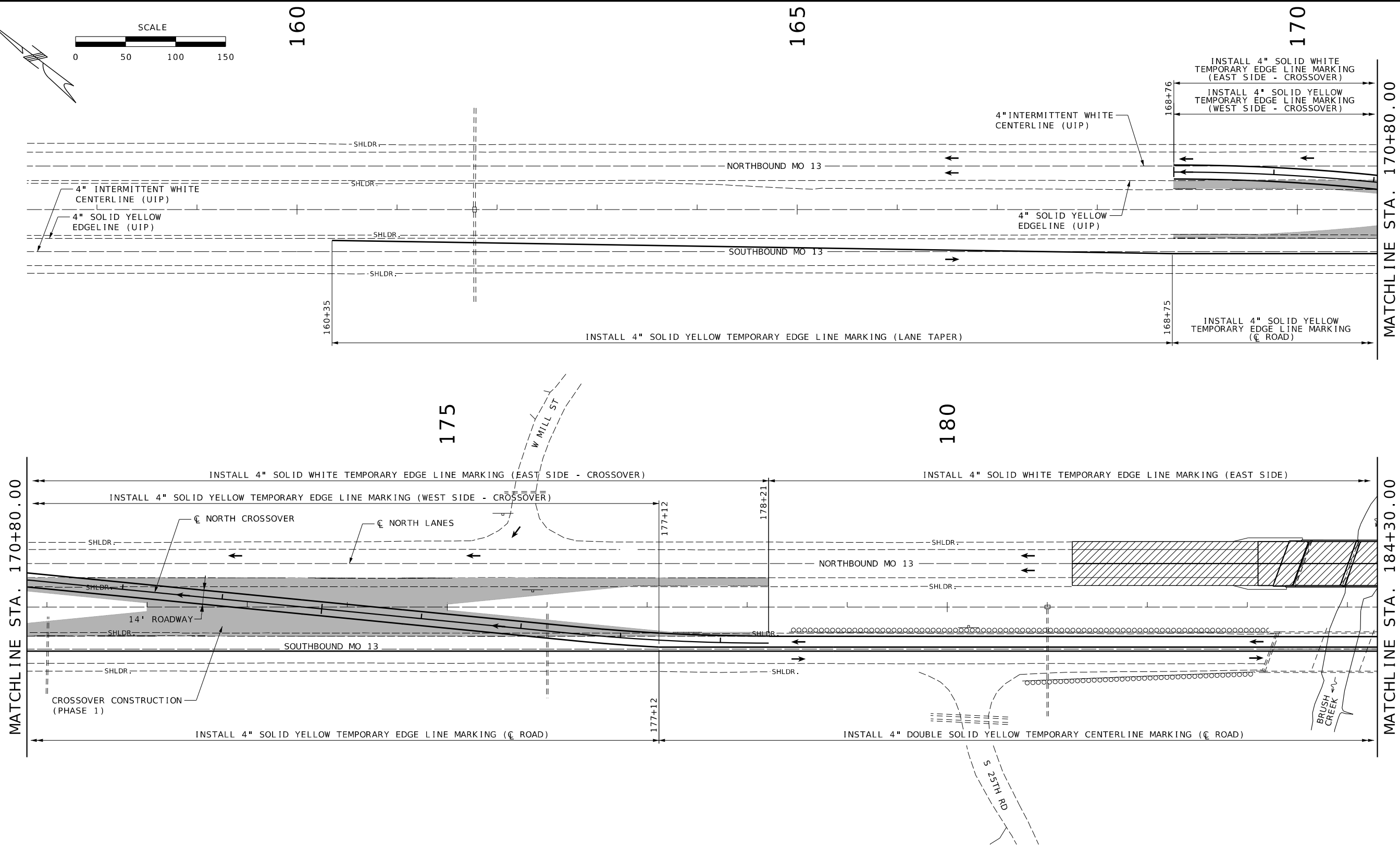
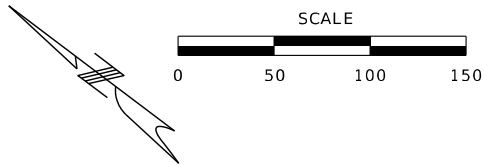
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12/17/2023 12:39 PM

D-30



- PHASING:
- PHASE 1 - CONSTRUCT PERMANENT CROSSOVERS NORTH AND SOUTH OF THE BRIDGE. NO PAVEMENT MARKINGS.
- PHASE 2 - INSTALL TEMPORARY PAVEMENT MARKINGS FOR TRAFFIC CONTROL. CONSTRUCT BRIDGE REPLACEMENT ON NORTHBOUND MO 13. REMOVE ALL TEMPORARY PAVEMENT MARKINGS FOR TRAFFIC CONTROL. INSTALL PERMANENT PAVEMENT MARKING & RUMBLE STRIPS.
- PHASE 3 - BRIDGE/ROAD CONSTRUCTION COMPLETE. INSTALL TUBULAR MARKERS ON BOTH CROSSOVERS. NO PAVEMENT MARKINGS.

PHASE 2
PAVEMENT MARKING
SHEET 1 OF 4



THIS SHEET HAS BEEN
SIGNED, SEALED AND DATED
ELECTRONICALLY.

DATE PREPARED 12/1/2025	
ROUTE 13	STATE MO
DISTRICT SW	SHEET NO. 44
COUNTY POLK	
JOB NO. JSR0049	
CONTRACT ID.	

PROJECT NO.	
BRIDGE NO. A9573	

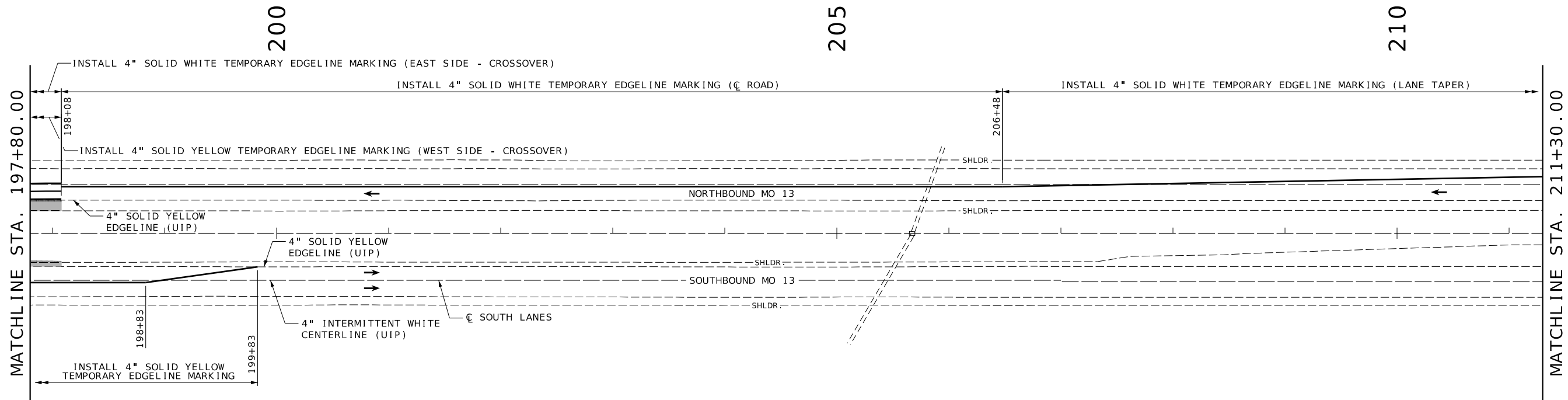
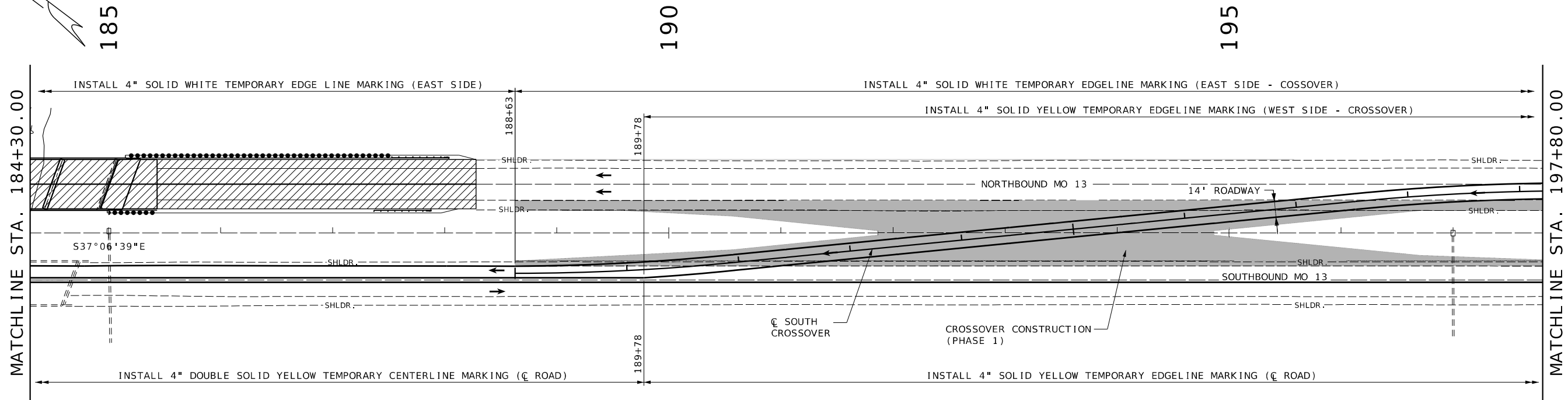
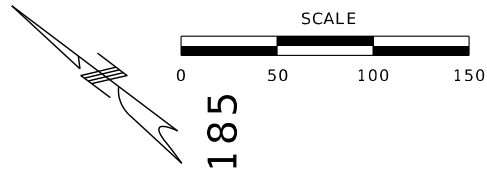
DESCRIPTION	DATE

MISSOURI HIGHWAYS AND TRANSPORTATION
COMMISSION



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

 **VEENSTRA & KIMM INC.**
A Kleinfelder Company
9788 N Ash Avenue
Kansas City, Missouri 64157
816-781-6182 816-781-0643 (FAX)
Certificate of Authority No. 2002006347



PHASING:

PHASE 1 - CONSTRUCT PERMANENT CROSSOVERS NORTH AND SOUTH OF THE BRIDGE. NO PAVEMENT MARKINGS.

PHASE 2 - INSTALL TEMPORARY PAVEMENT MARKINGS FOR TRAFFIC CONTROL. CONSTRUCT BRIDGE REPLACEMENT ON NORTHBOUND MO 13. REMOVE ALL TEMPORARY PAVEMENT MARKINGS FOR TRAFFIC CONTROL. INSTALL PERMANENT PAVEMENT MARKING & RUMBLE STRIPS.

PHASE 3 - BRIDGE/ROAD CONSTRUCTION COMPLETE. INSTALL TUBULAR MARKERS ON BOTH CROSSOVERS. NO PAVEMENT MARKINGS.

PHASE 2
PAVEMENT MARKING
SHEET 2 OF 4



THIS SHEET HAS BEEN
SIGNED, SEALED AND DATED
ELECTRONICALLY.

DATE PREPARED
12/1/2025

ROUTE 13 STATE MO

DISTRICT SW SHEET NO. 45

COUNTY POLK

JOB NO. JSR0049

CONTRACT ID.

PROJECT NO.

BRIDGE NO. A9573

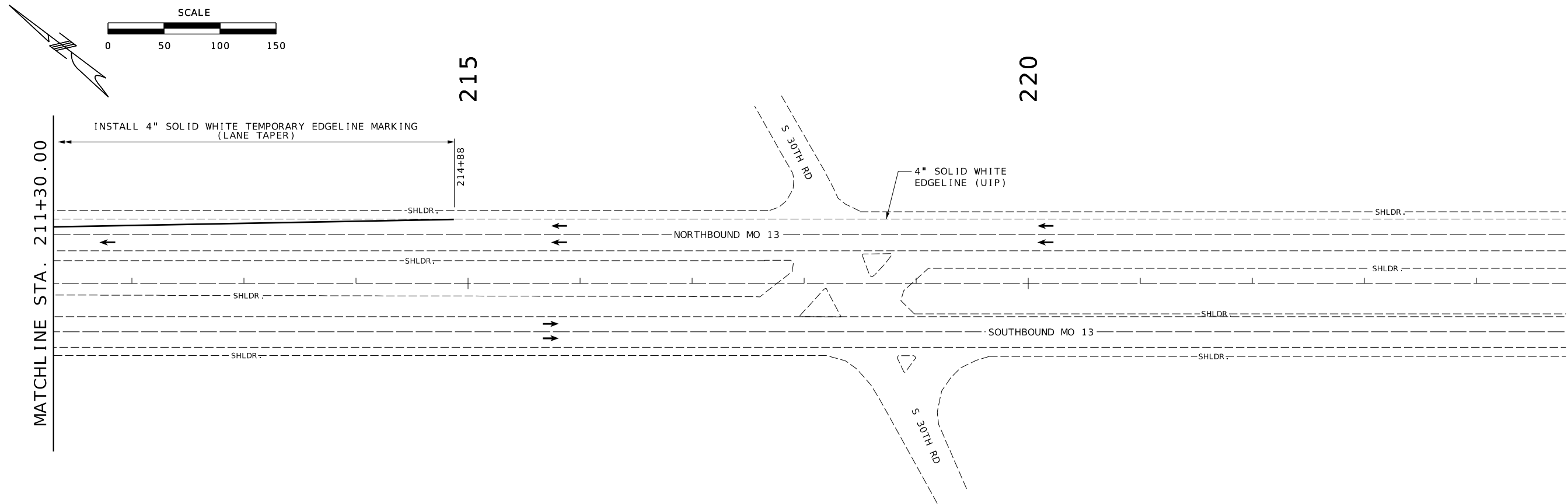
DESCRIPTION	DATE

MISSOURI HIGHWAYS AND TRANSPORTATION
COMMISSION

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

VEENSTRA & KIMM INC.
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9788 N Ash Avenue
Kansas City, Missouri 64157
816-781-6182 816-781-0643 (FAX)
Certificate of Authority No. 2002006347



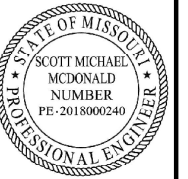
PHASING:

PHASE 1 - CONSTRUCT PERMANENT CROSSOVERS NORTH AND SOUTH OF THE BRIDGE. NO PAVEMENT MARKINGS.

PHASE 2 - INSTALL TEMPORARY PAVEMENT MARKINGS FOR TRAFFIC CONTROL. CONSTRUCT BRIDGE REPLACEMENT ON NORTHBOUND MO 13. REMOVE ALL TEMPORARY PAVEMENT MARKINGS FOR TRAFFIC CONTROL. INSTALL PERMANENT PAVEMENT MARKING & RUMBLE STRIPS.

PHASE 3 - BRIDGE/ROAD CONSTRUCTION COMPLETE. INSTALL TUBULAR MARKERS
ON BOTH CROSSOVERS. NO PAVEMENT MARKINGS.

PHASE 2
PAVEMENT MARKING
SHEET 3 OF 4



THIS SHEET HAS BEEN
DESIGNED, SEALED AND DATED
ELECTRONICALLY.

DATE PREPARED

ROUTE	STATE
13	MO

DISTRICT	SHEET NO.
SW	46

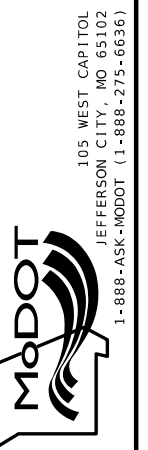
COUNTY

POLK

JOB NO.
JSR0049

CONTRACT ID.

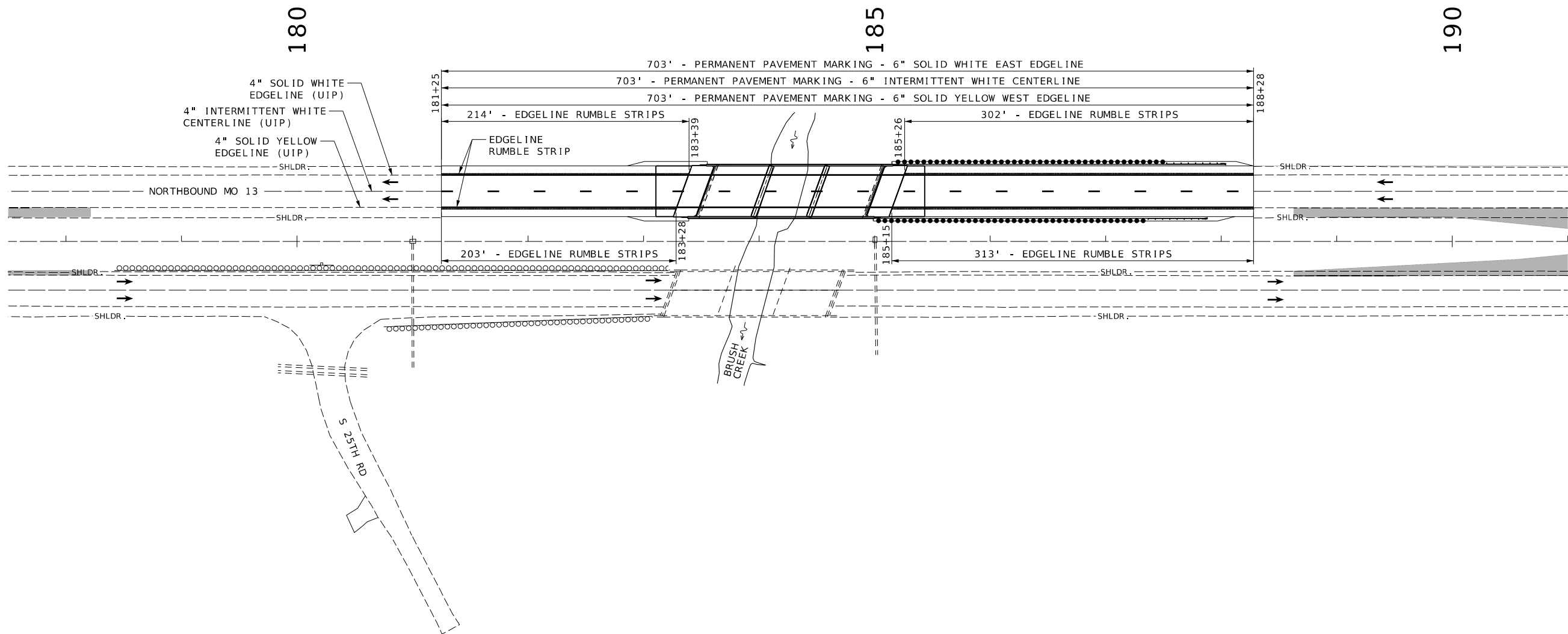
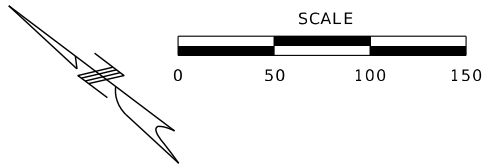
PROJECT NO.

BRIDGE NO.
A9573[illegible]MISSOURI HIGHWAYS AND TRANSPORTATION
COMMISSION

**VEENSTRA
& KIMM INC.**

A Kleinfelder Company

9788 N Ash Avenue Kansas City, Missouri 64157
816-781-6182 816-781-0643 (FAX)
Certificate of Authority No. 2002006347



PHASING:

PHASE 1 - CONSTRUCT PERMANENT CROSSOVERS NORTH AND SOUTH OF THE BRIDGE. NO PAVEMENT MARKINGS.

PHASE 2 - INSTALL TEMPORARY PAVEMENT MARKINGS FOR TRAFFIC CONTROL. CONSTRUCT BRIDGE REPLACEMENT ON NORTHBOUND MO 13. REMOVE ALL TEMPORARY PAVEMENT MARKINGS FOR TRAFFIC CONTROL. INSTALL PERMANENT PAVEMENT MARKING & RUMBLE STRIPS.

PHASE 3 - BRIDGE/ROAD CONSTRUCTION COMPLETE. INSTALL TUBULAR MARKERS ON BOTH CROSSOVERS. NO PAVEMENT MARKINGS.

PHASE 2
PAVEMENT MARKING
SHEET 4 OF 4



THIS SHEET HAS BEEN
SIGNED, SEALED AND DATED
ELECTRONICALLY.

DATE PREPARED 12/1/2025	
ROUTE 13	STATE MO
DISTRICT SW	SHEET NO. 47
COUNTY POLK	
JOB NO. JSR0049	
CONTRACT ID.	

PROJECT NO.	
BRIDGE NO. A9573	

DESCRIPTION	DATE

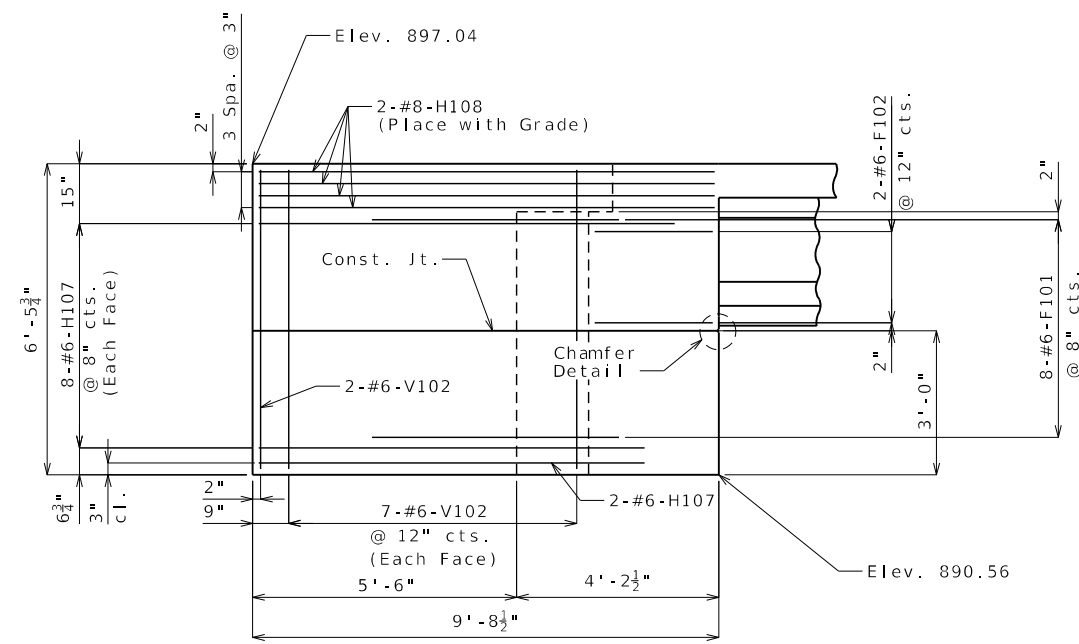
MISSOURI HIGHWAYS AND TRANSPORTATION
COMMISSION

105 WEST CAPITOL
JEFFERSON CITY, MO 65102
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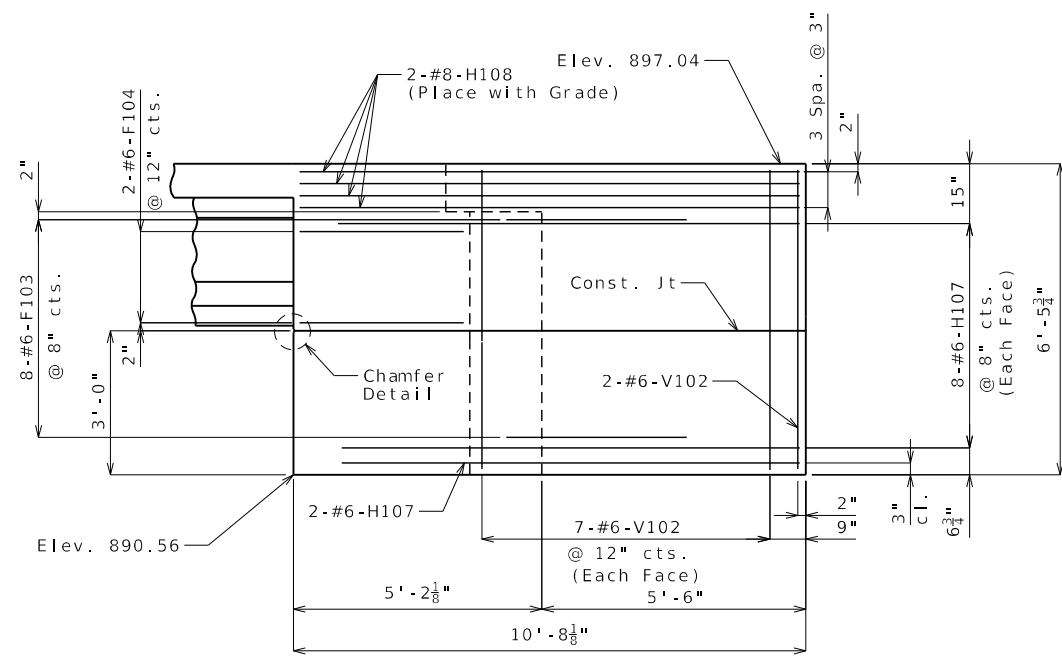
VEENSTRA & KIMM INC.
A Kleinfelder Company

9788 N Ash Avenue
Kansas City, Missouri 64157
816-781-6182 816-781-0643 (FAX)
Certificate of Authority No. 2002006347

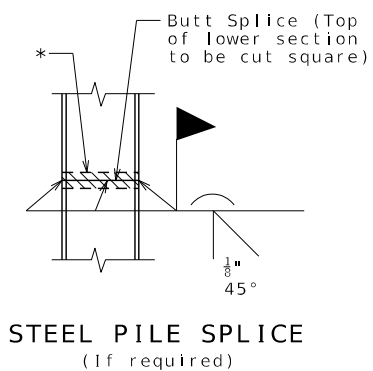
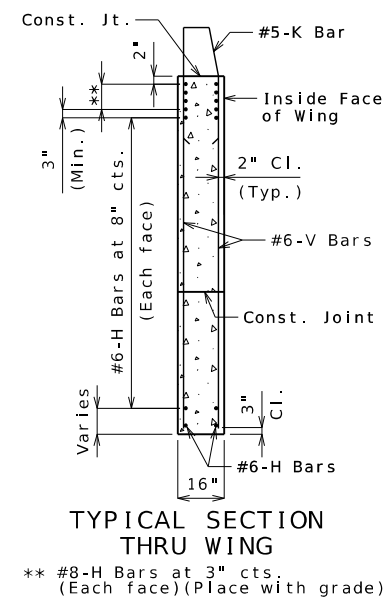
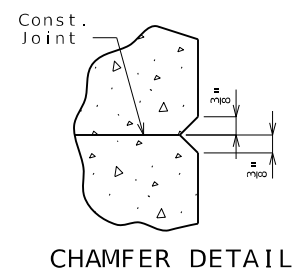
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ELEVATION A-A



ELEVATION B-B



NOTES:

For location of Elevation A-A and Elevation B-B, see Sheet No. 3.

For details of End Bent No. 1 not shown, see Sheets No. 3, 4, & 5.

For reinforcement of the barrier, see Sheet No. 21.

DETAILS OF END BENT NO. 1



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DATE PREPARED
12/01/2025

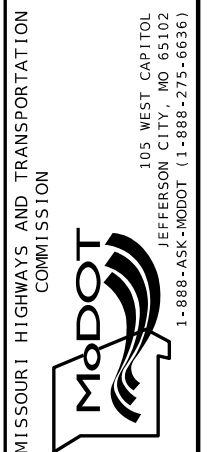
ROUTE 13 STATE MO
DISTRICT BR SHEET NO. 6

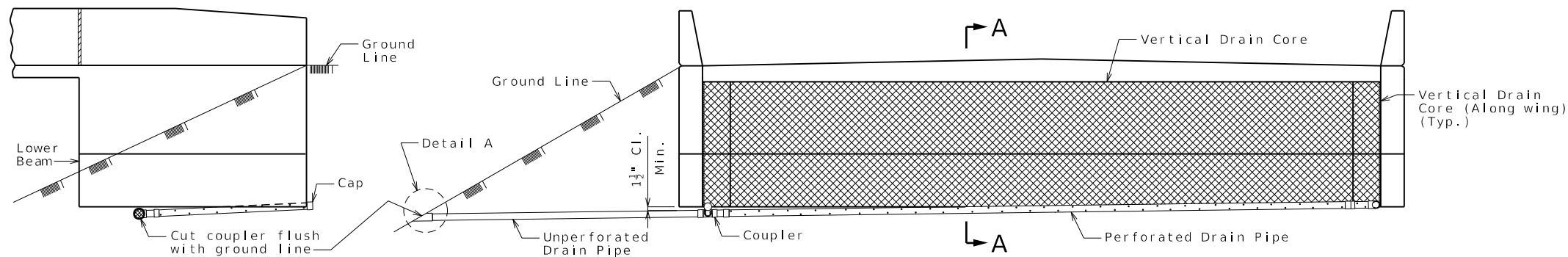
COUNTY POLK
JOB NO. JSR0049
CONTRACT ID.

PROJECT NO.

BRIDGE NO. A9573

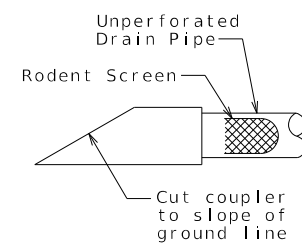
DATE	DESCRIPTION



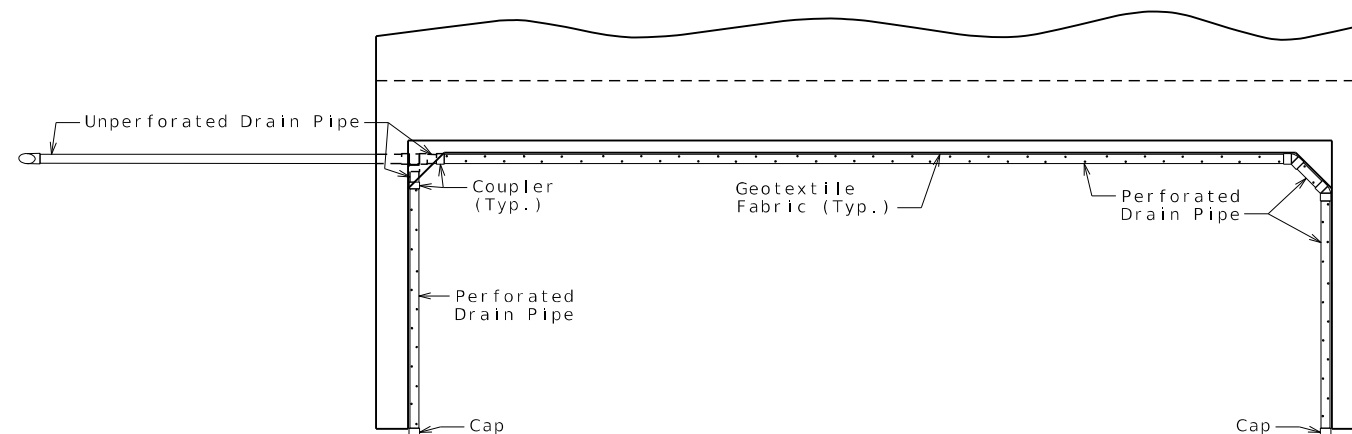


ELEVATION OF WING

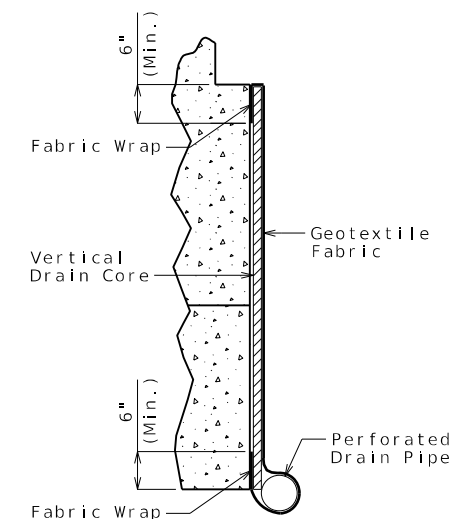
ELEVATION OF END BENT



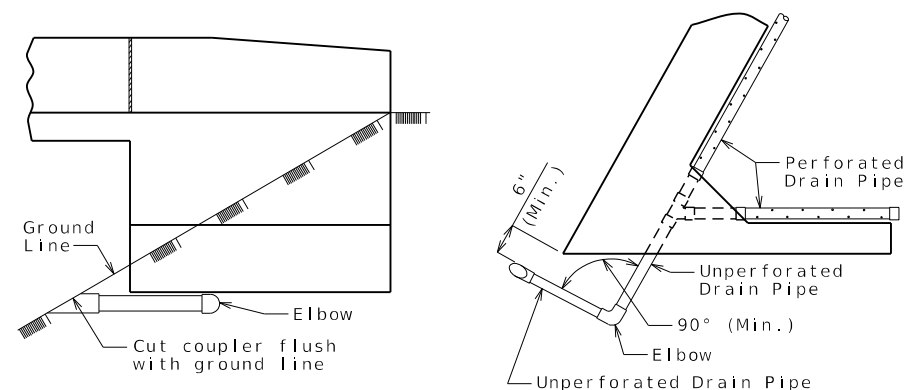
DETAIL A



PLAN OF END BENT



PART SECTION A-A
(Section thru wing similar)



ELEVATION OF WING

PART PLAN

OPTIONAL TURNED DRAIN
(Use only when straight drain is not practical.)

VERTICAL DRAIN AT END BENTS

(Squared end bent shown, skewed end bent similar)

General Notes:

All drain pipe shall be sloped 1 to 2 percent.

Drain pipe may be either 6-inch diameter corrugated metallic-coated steel pipe underdrain, 4-inch diameter corrugated polyvinyl chloride (PVC) drain pipe, or 4-inch diameter corrugated polyethylene (PE) drain pipe.

Drain pipe shall be placed at fill face of end bent and inside face of wings. The pipe shall slope to lowest grade of ground line, also missing the lower beam of end bent by a minimum of 1 1/2 inches.

Perforated pipe shall be placed at fill face side and inside face of wings at the bottom of end bent and plain pipe shall be used where the vertical drain ends to the exit at ground line.



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ROUTE 13	STATE MO
DISTRICT BR	SHEET NO. 7

COUNTY
POLK
JOB NO.
JSR0049
CONTRACT ID.

PROJECT NO.

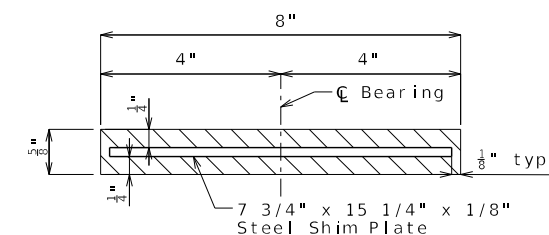
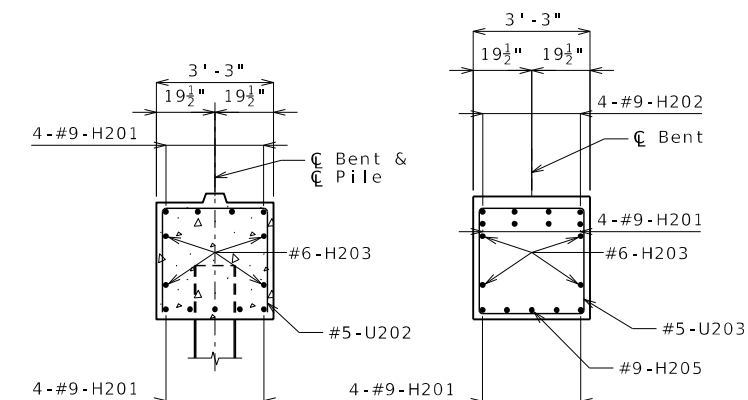
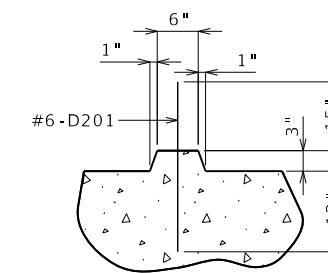
BRIDGE NO.	A9573
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COMMISSION

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DATE PREPARED
12/01/2025

ROUTE	STATE
13	MO

DISTRICT	SHEET NO
BR	10

COUNTY
POLK

JOB NO.
JSR0049

CONTRACT ID.

PROJECT NO.

BRIDGE NO.
A9573

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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JEFFERSON CITY, MO 65102

VEENSTRA & KIMM INC.
A Kleinfelder Company
9785 N Ash Avenue
Kansas City, Missouri 64157
816-781-6182
816-781-0643 (FAX)



Note: All U bars and V bar pairs in the End Bent shall be placed parallel to the girders.

These quantities are included in the Estimated Quantities table on Sheet No. 2.

DETAILS OF END BENT NO. 4

NOTES :

All concrete in the end bent above top of beam and below top of slab shall be Class B-2.

Strands at end of the beams shall be field bent or, if necessary, cut in field to maintain 1 1/2-inch minimum clearance to fill face of end bent.

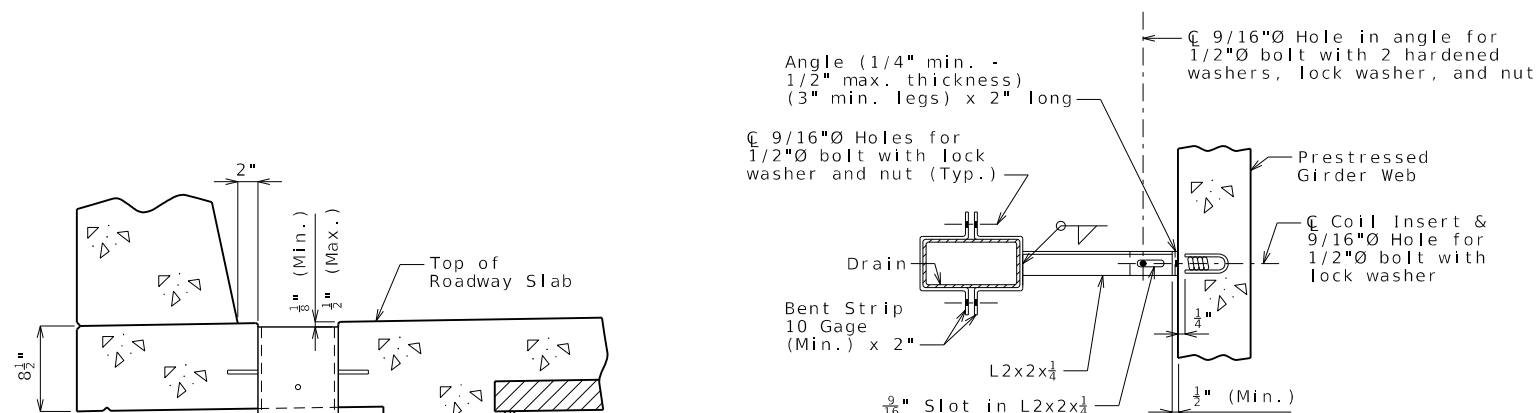
For location of coil tie rods and #5-H101 (strand tie bar), see Sheets No. 14 and 15.

For Elevation A-A and Elevation B-B
see Sheet No. 13.

For details of Vertical Drain at End Bent, see Sheet No. 7.

For details of Bridge Approach Slab,
see Sheets No. 22.

For details of End Bent No. 4 not shown,
see Sheets No. 11, 12 & 13.



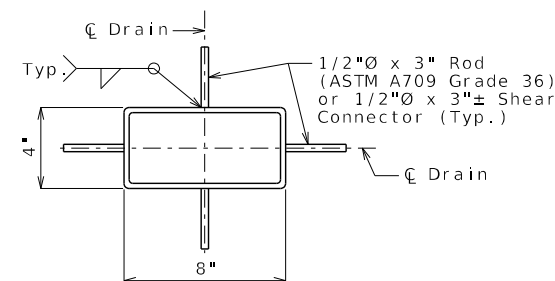
2"

Drain

Inside Face of Barrier

Roadway Traffic

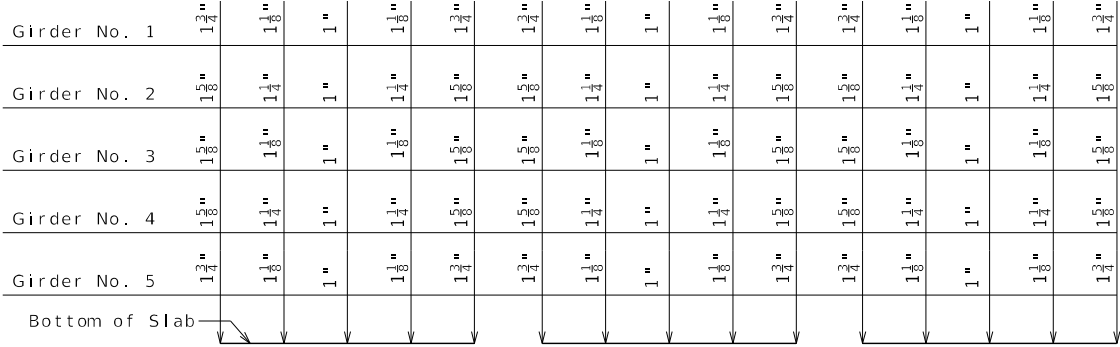
SLAB DRAINS



Technical drawing of a rectangular manhole cover. The cover is 8" (Nom.) wide and 4" (Nom.) high. It features four 1/2"Ø x 3" Galv. Carriage Bolt with Hex Nut and Lock Washer (Typ.) for securing the cover to the frame. The bolts are positioned at the corners, with two on each long side. The drawing includes dimension lines and labels for the bolts and the drain openings.

At the contractor's option, drains may be field cut. The method of cutting FRP slab drain shall be as recommended by the manufacturer to ensure a smooth, chip free cut.

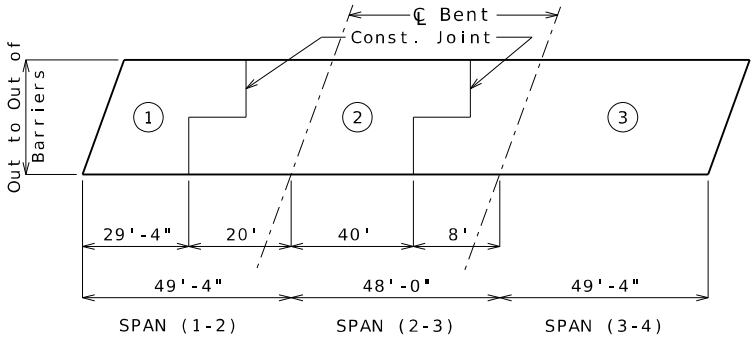




THEORETICAL SLAB HAUNCHING DIAGRAM (ESTIMATED AT 90 DAYS)

If girder camber is different from that shown in the camber diagram, in order to maintain minimum slab thickness, an adjustment of the slab haunches, an increase in slab thickness or a raise in grade uniformly throughout the structure shall be necessary. No payment will be made for additional labor or materials required for variation in haunching, slab thickness or grade adjustment.

Concrete in the slab haunches is included in the Estimated Quantities for Slab on Concrete I-Girder

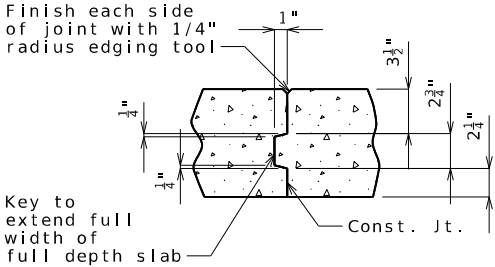


	Sequence of Pours			Min. Rate of Pour Cu. Yds./Hr.
	Direction			With Retarder
Basic Sequence	1	2	3	25
	End to 2	1 to 3	2 to End	
Alternate pours to the basic sequence are subject to the approval of the engineer in accordance with Sec 703.				
Alternate A Pours	1 + 2		3	25
	End to 3		2 to End	
Alternate B Pours	1 + 2 + 3			25
	End to End			

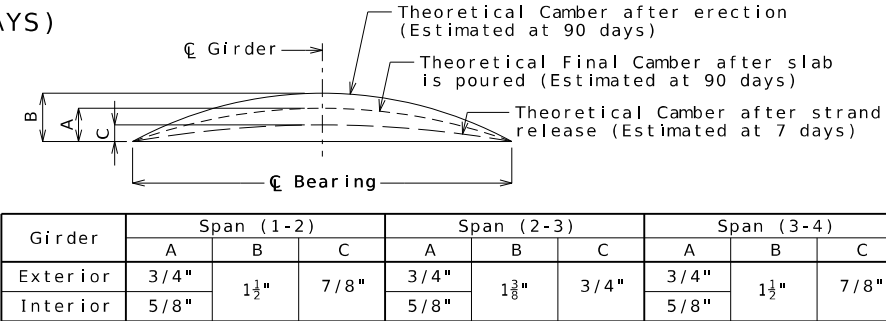
The contractor shall furnish an approved retarder to retard the set of the concrete to 2.5 hours, and shall pour and satisfactorily finish the slab pours at the rate given.

The concrete diaphragm at the intermediate bents and integral end bents shall be poured a minimum of 30 minutes and a maximum of 2 hours before the slab is poured.

SLAB POURING SEQUENCE



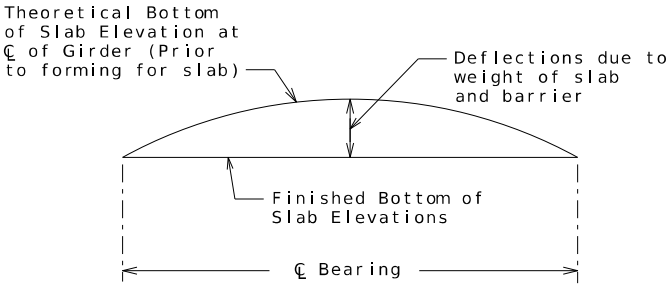
FULL DEPTH SLAB
SLAB CONSTRUCTION JOINT



GIRDER CAMBER DIAGRAM

Conversion Factors for Girder Camber (Estimated at 90 days):

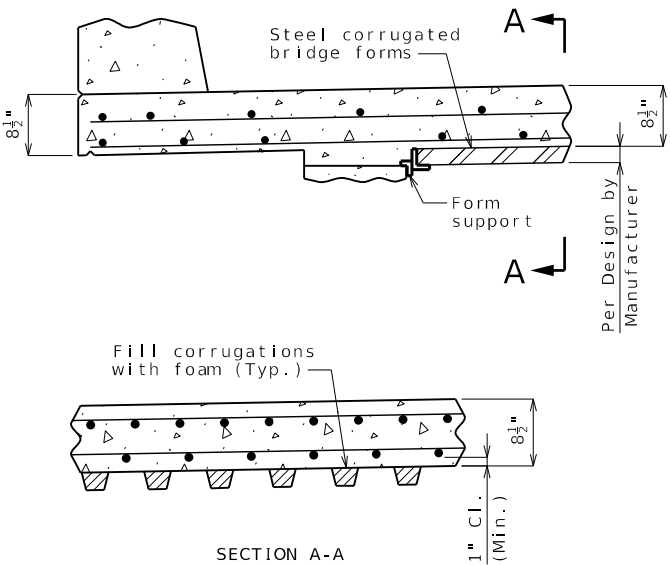
0.25 pt. = 0.7125 x 0.5 pt.



TYPICAL SLAB ELEVATIONS DIAGRAM

Theoretical Bottom of Slab Elevations at Centerline of Girder (Prior to forming for slab) (Estimated at 90 days)															
Girder Number	Span (1-2) (47'-3 1/2" C Brg. - C Brg.)					Span (2-3) (46'-7" C Brg. - C Brg.)					Span (3-4) (47'-3 1/2" C Brg. - C Brg.)				
	C Brg.	.25	.50	.75	C Brg.	C Brg.	.25	.50	.75	C Brg.	C Brg.	.25	.50	.75	C Brg.
1	896.41	896.45	896.47	896.45	896.41	896.41	896.45	896.47	896.45	896.41	896.41	896.45	896.47	896.45	896.41
2	896.61	896.65	896.68	896.65	896.61	896.61	896.65	896.67	896.65	896.61	896.61	896.65	896.68	896.65	896.61
3	896.78	896.83	896.85	896.83	896.78	896.78	896.82	896.84	896.82	896.78	896.78	896.83	896.85	896.83	896.78
4	896.61	896.65	896.68	896.65	896.61	896.61	896.65	896.67	896.65	896.61	896.61	896.65	896.68	896.65	896.61
5	896.41	896.45	896.47	896.45	896.41	896.41	896.45	896.47	896.45	896.41	896.41	896.45	896.47	896.45	896.41

Elevations are based on a constant slab thickness of 8 1/2" and include allowance for theoretical dead load deflections due to weight of slab (including precast panel) and barrier.



OPTIONAL STAY-IN-PLACE
FORM DETAILS

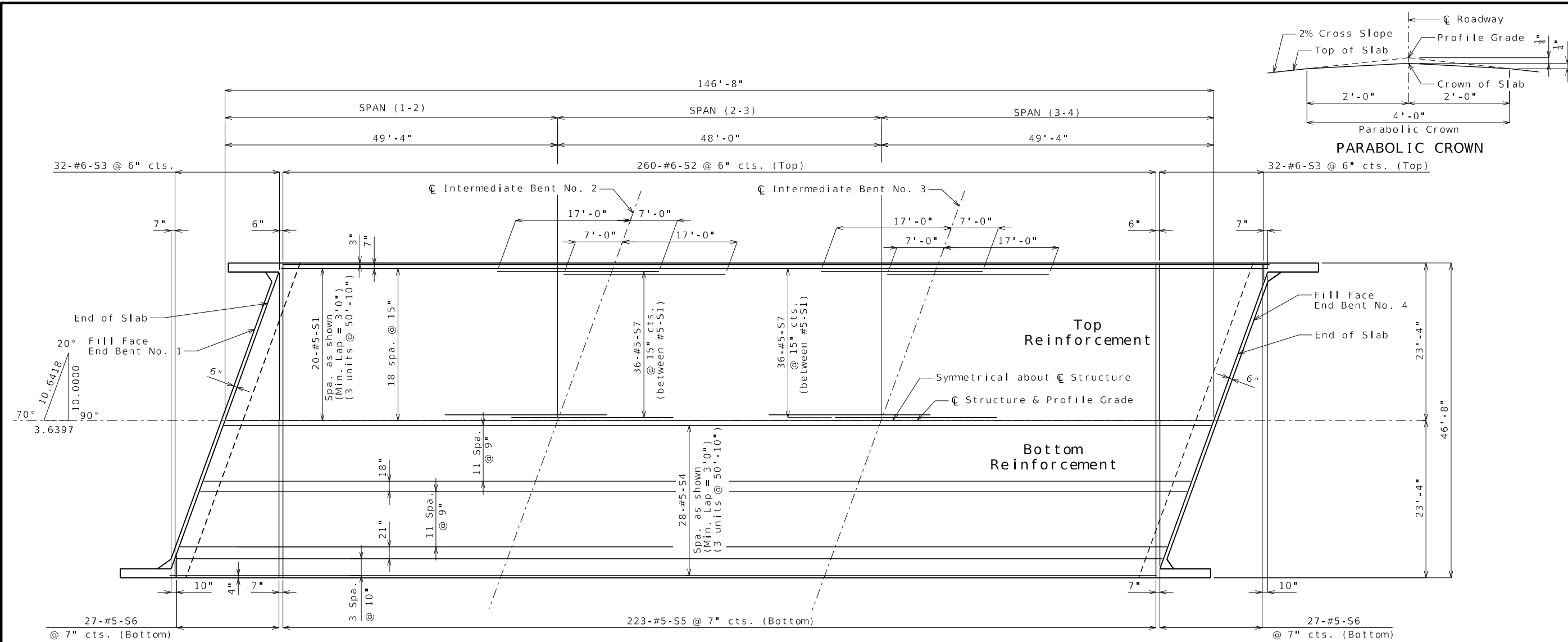
Stay-In-Place Forms:

Corrugated steel forms, supports, closure elements and accessories shall be in accordance with grade requirement and coating designation G165 of ASTM A653. Complete shop drawings of the permanent steel deck forms shall be required in accordance with Sec 1080.

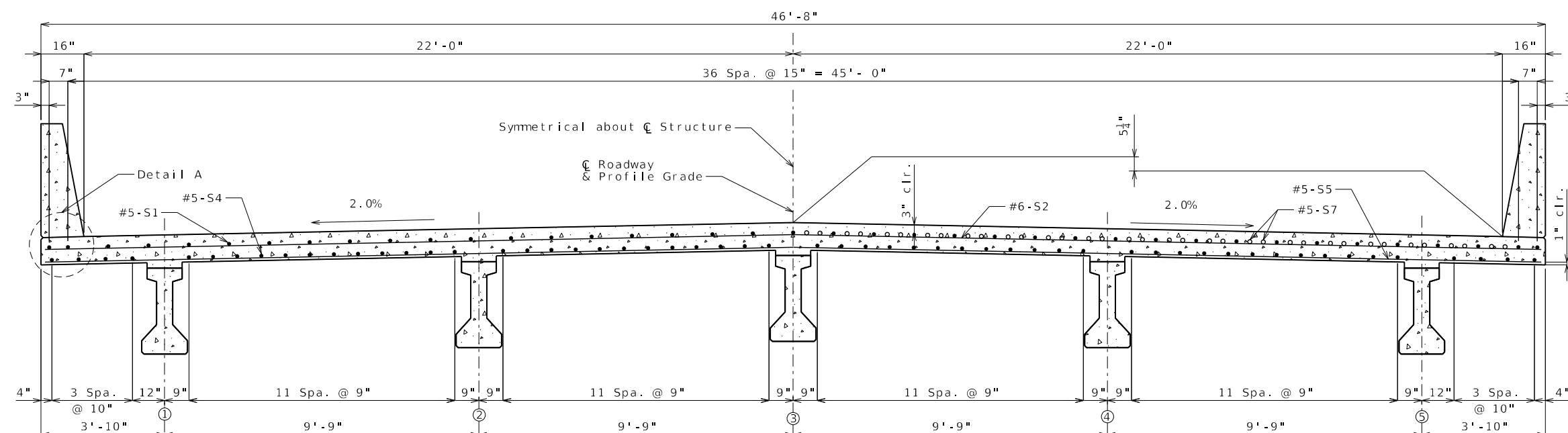
Corrugations of stay-in-place forms shall be filled with an expanded polystyrene material. The polystyrene material shall be placed in the forms with an adhesive in accordance with the manufacturer's recommendations.

Form sheets shall not rest directly on the top of girder flanges. Sheets shall be securely fastened to form supports with a minimum bearing length of one inch on each end. Form supports shall be placed in direct contact with the flange. Drilling holes in the girder flanges will not be permitted. All steel fabrication and construction shall be in accordance with Sec 1080 and 712. Certified field welders will not be required for welding of the form supports.

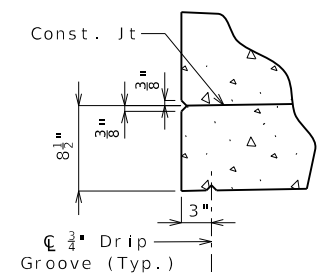
The design of stay-in-place corrugated steel forms is per manufacturer which shall be in accordance with Sec 703 for false work and forms. Maximum actual weight of corrugated steel forms allowed shall be 4 psf assumed for girder loading.



PLAN OF SLAB SHOWING REINFORCEMENT



TYPICAL HALF SECTION NEAR MID SPAN TYPICAL HALF SECTION NEAR INTERMEDIATE BENT



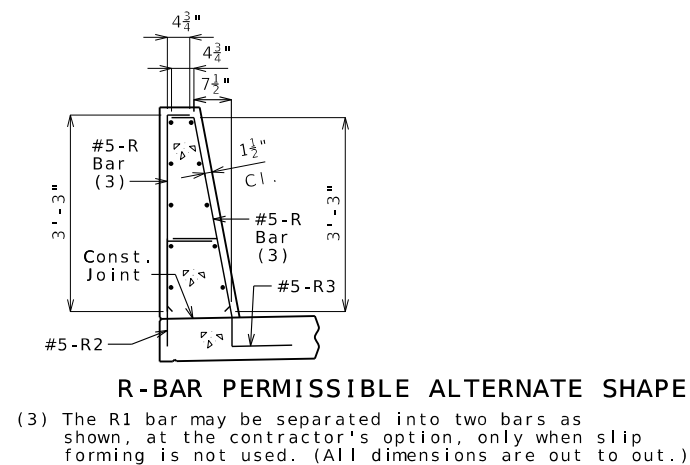
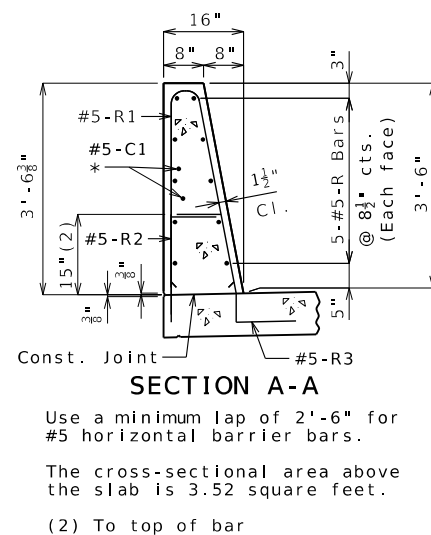
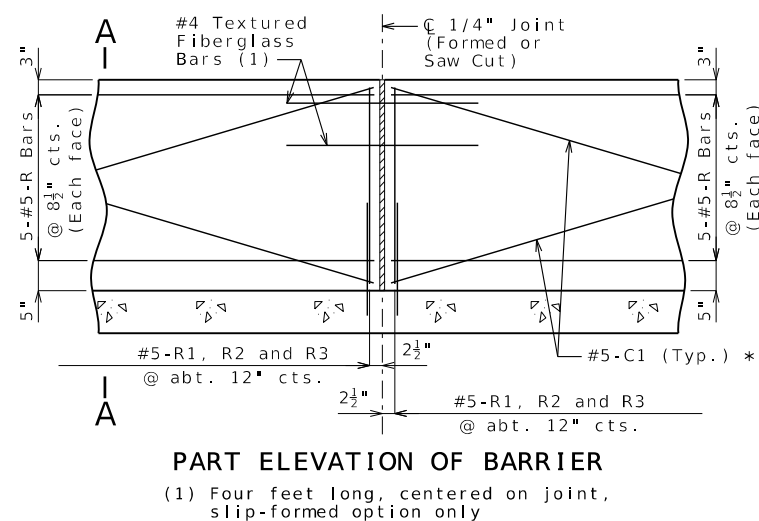
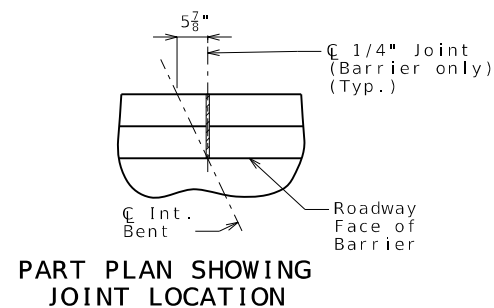
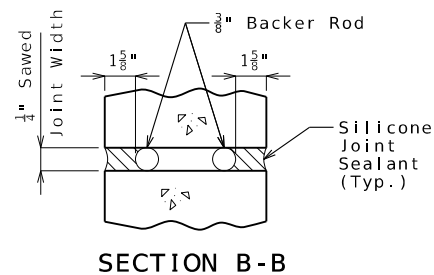
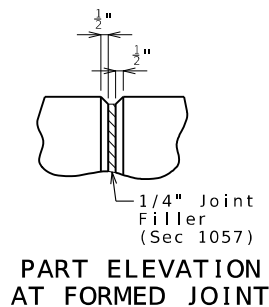
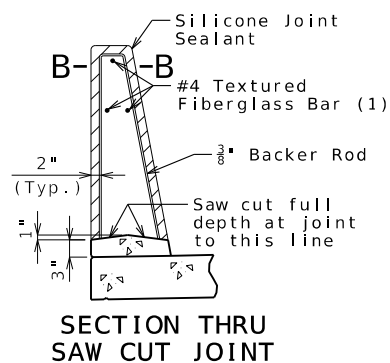
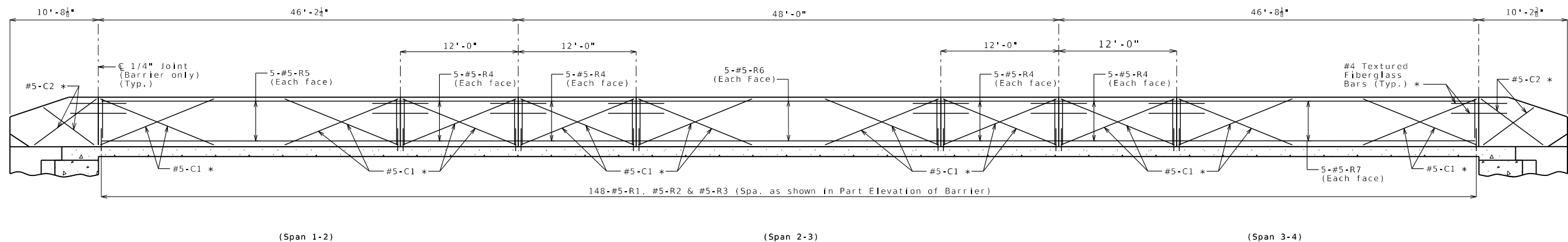
DETAIL A

- Notes:
- For details of barrier, see Sheets No.20 & 21.
 - For details and locations of slab drains, see Sheet No. 17.
 - For theoretical haunch, see Sheet No. 18.
 - For slab pouring sequence, see Sheet No. 18.
 - For bottom of slab elevations along beam, see Sheet No. 18.
 - Longitudinal slab dimensions are measured horizontally.

Detailed Jun. 2025
Checked Jul. 2025

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DATE PREPARED 12/01/2025	
ROUTE 13	STATE MO
DISTRICT BR	SHEET NO. 19
COUNTY POLK	
JOB NO. JSR0049	
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO. A9573	
DESCRIPTION	DATE
MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION	
105 WEST CAPITOL JEFFERSON CITY, MO 65102 1-888-ASK-MODOT (1-888-275-6636)	
A Kleinfelder Company 9788 N Ash Avenue Kansas City, Missouri 64157 816-781-6182 816-781-0643 (FAX) Certificate of Authority No. 2002006347	



General Notes:

* Slip-formed option only.

Conventional forming or slip forming may be used. Saw cut joints may be used with conventional forming.

Top of barrier shall be built parallel to grade and barrier joints (except at end bents) normal to grade.

All exposed edges of barrier shall have either a 1/2-inch radius or a 3/8-inch bevel, unless otherwise noted.

Payment for all concrete and reinforcement, complete in place, will be considered completely covered by the contract unit price for Type D Barrier per linear foot.

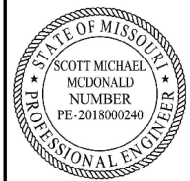
Concrete in barrier shall be Class B-1.

Measurement of barrier is to the nearest linear foot for each structure, measured along the outside top of slab from end of wing to end of wing.

Concrete traffic barrier delineators shall be placed on top of the barrier as shown on Missouri Standard Plan 617.10 and in accordance with Sec 617. Delineators on bridges with two-lane, two-way traffic shall have retroreflective sheeting on both sides. Concrete traffic barrier delineators will be considered completely covered by the contract unit price for Type D Barrier.

Joint sealant and backer rods shall be in accordance with Sec 717 for silicone joint sealant for saw cut and formed joints.

For slip-formed option, both sides of barrier shall have a vertically broomed finish and the top shall have a transversely broomed finish.



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ROUTE	STATE
13	MO

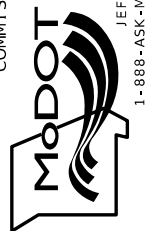
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BR	20

COUNTY
POLK

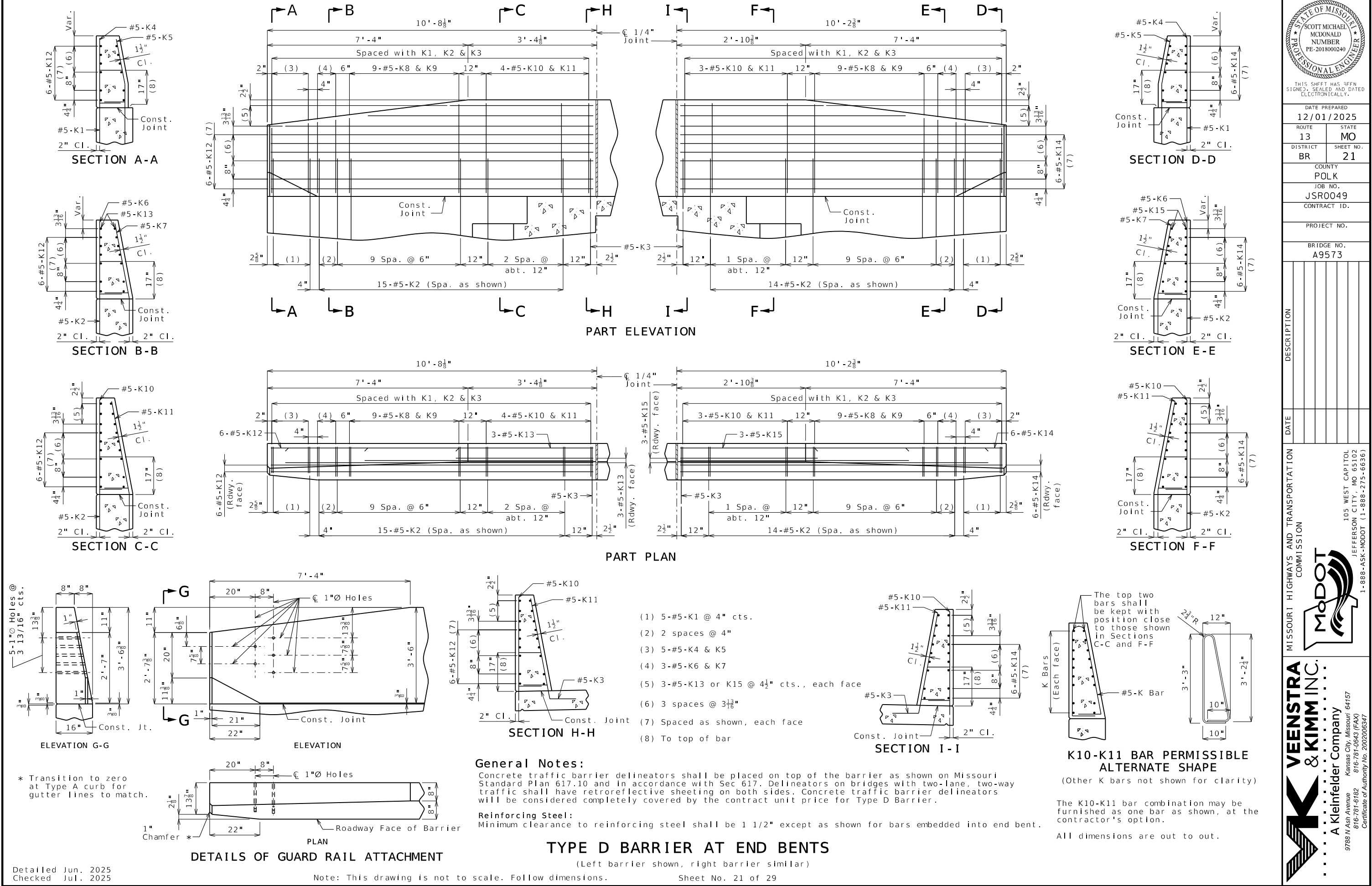
JOB NO.
JSR0049

CONTRACT ID.

PROJECT NO.

BRIDGE NO.
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ROUTE
13

STATE
MO

DISTRICT
BR

SHEET NO.
21

COUNTY
POLK

JOB NO.
JSR0049

CONTRACT ID.

PROJECT NO.

BRIDGE NO.
A9573

DESCRIPTION

DATE

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COMMISSION

105 WEST CAPITOL
JEFFERSON CITY, MO 65102

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VEENSTRA
& KIMM INC.

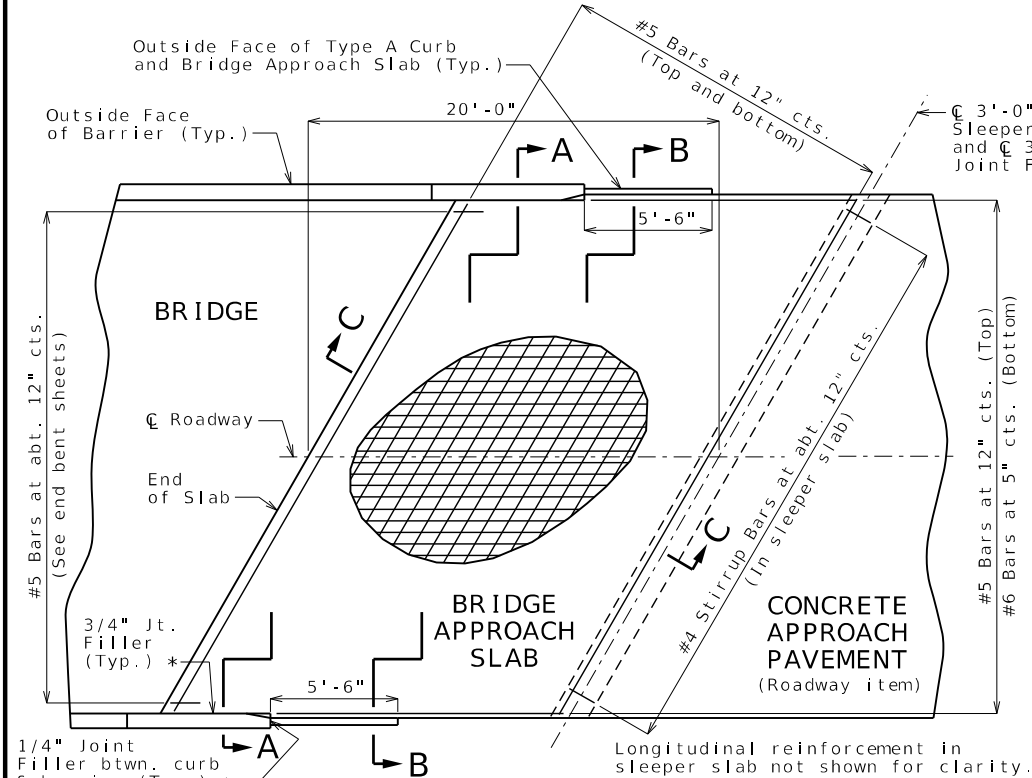
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Kansas City, Missouri 64157

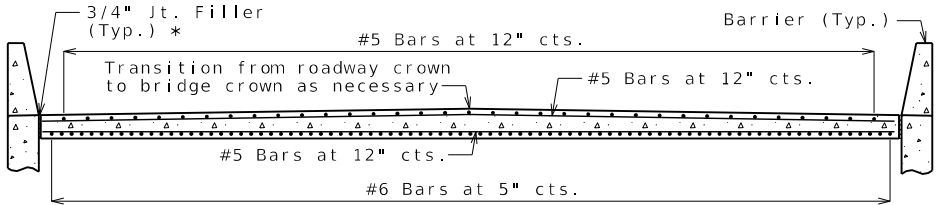
9788 N Ash Avenue

816-781-0643 (FAX)

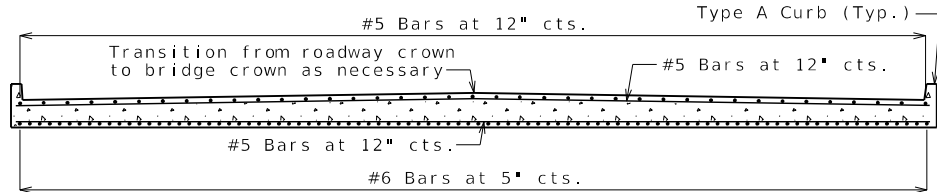
Certificate of Authority No. 2002006347



PART PLAN SHOWING REINFORCEMENT

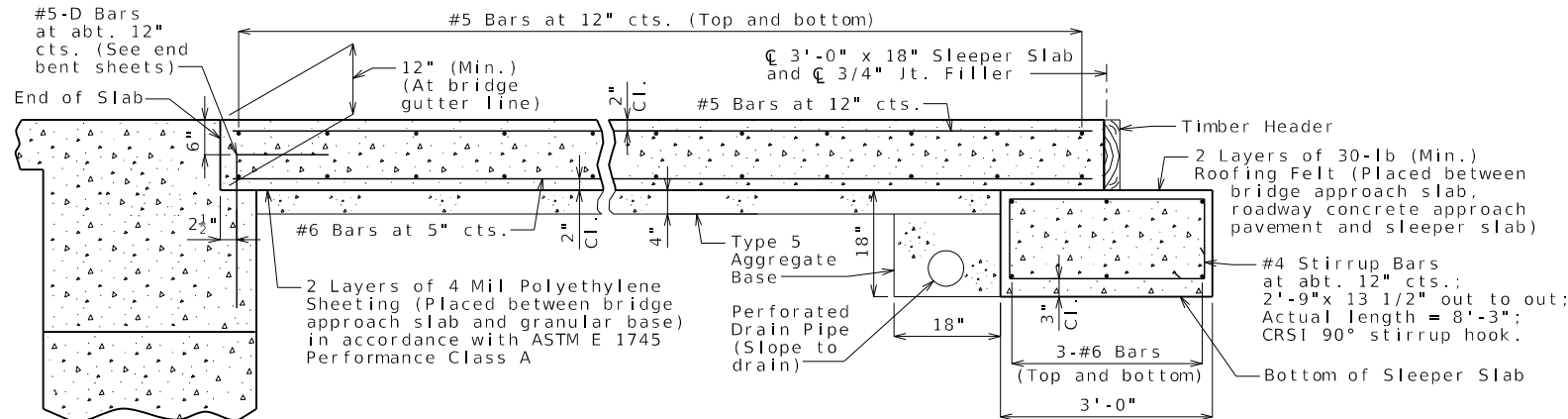


SECTION A-A



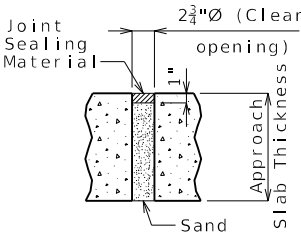
SECTION B-B

With the approval of the engineer, the contractor may crown the bottom of the approach slab to match the crown of the roadway surface.



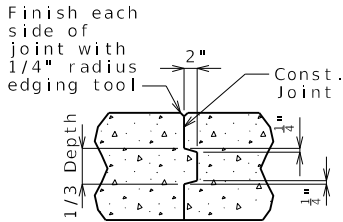
SECTION C-C

BRIDGE APPROACH SLAB (MAJOR)



UNDERSEAL ACCESS HOLE DETAIL

(If required)



CONSTRUCTION JOINT DETAIL

General Notes:

All concrete for the bridge approach slab and sleeper slab shall be in accordance with Sec 503 (f'c = 4,000 psi).

The reinforcing steel in the bridge approach slab and the sleeper slab shall be epoxy coated Grade 60 with fy = 60,000 psi.

Drain pipe may be either 6" diameter corrugated metallic-coated pipe underdrain, 4" diameter corrugated polyvinyl chloride (PVC) drain pipe, or 4" diameter corrugated polyethylene (PE) drain pipe.

Minimum clearance to reinforcing steel shall be 1 1/2", unless otherwise shown.

The reinforcing steel in the bridge approach slab and the sleeper slab shall be continuous. The transverse reinforcing steel may be made continuous by providing a minimum lap splice of 24 inches for #5 bars and 40 inches for #6 bars, or by mechanical bar splice.

Mechanical bar splices shall be in accordance with Sec 710.

All joint filler shall be in accordance with Sec 1057 for preformed fiber expansion joint filler except as noted.

The contractor shall pour and satisfactorily finish the bridge slab before placing the bridge approach slab.

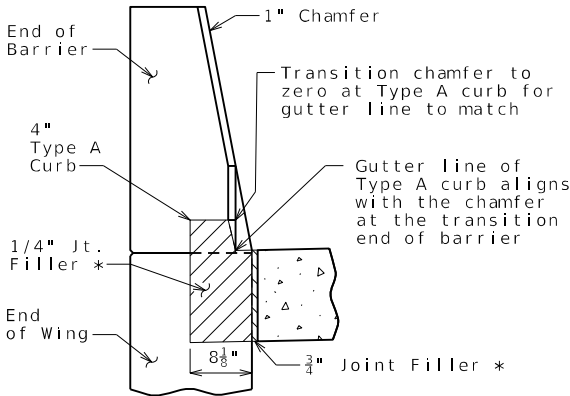
Longitudinal construction joints in approach slab and sleeper slab shall be aligned with longitudinal construction joints in bridge slab.

For concrete approach pavement details, see roadway plans.

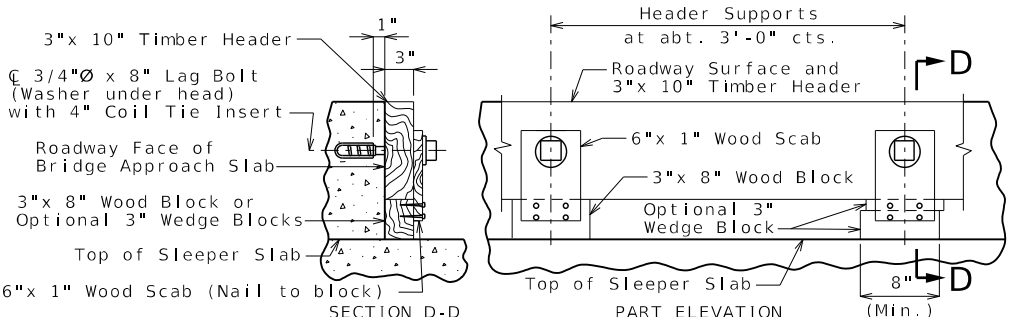
See Missouri Standard Plan 609.00 for details of Type A curb.

Payment for furnishing all materials, labor and excavation necessary to construct the approach slab, including the timber header, sleeper slab, underdrain, Type 5 aggregate base, joint filler and all other appurtenances and incidental work as shown on this sheet, complete in place, will be considered completely covered by the contract unit price for Bridge Approach Slab (Major) per square yard.

* Seal joint between vertical face of approach slab and wing with sealant in accordance with Sec 717 for silicone joint sealant for saw cut and formed joints.



SECTION BETWEEN CURB AND BARRIER



DETAILS OF TIMBER HEADER

Remove timber header when concrete pavement is placed.



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ELECTRONICALLY.

DATE PREPARED
12/01/2025

ROUTE
13

STATE
MO

DISTRICT
BR

SHEET NO.
22

COUNTY
POLK

JOB NO.
JSR0049

CONTRACT ID.

PROJECT NO.

BRIDGE NO.
A9573

DESCRIPTION

DATE

MISSOURI HIGHWAYS AND TRANSPORTATION
COMMISSION

105 WEST CAPITOL
JEFFERSON CITY, MO 65102

1-888-ASK-MODOT (1-888-275-6636)

MoDOT

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Certificate of Authority No. 2002006347

[illegible]

Nominal lengths are based on out to out dimensions shown in bending diagrams and are listed to the nearest inch for fabricator's use. Actual lengths are measured along centerline bar to the nearest inch. Weights are based on actual lengths.

For bending diagrams and steel reinforcing totals, see Sheet No. 23.

Detailed Aug. 2025
Checked Aug. 2025

All bars shall be ASTM A615 Grade 60.

BILL OF REINFORCING STEEL

Note: This drawing is not to scale. Follow dimensions.

Sheet No. 24 of 29

Bill of Reinforcing Steel																
No. Req.	Size/ Mark	Location	Codes			Dimensions						Nom. Length ft in.	Actual Length ft in.	Weight lb		
						B ft in.	C ft in.	D ft in.	E ft in.	F ft in.	H ft in.				K ft in.	
		SUPERSTRUCTURE	C	SH	V											
		END BENT NO. 1														
	8 6 F101	WING BRACE	E	15		20.000	5 8.000	20.000	11.500	16.375	11.500	16.375	9 0 8 11		107	
	2 6 F102	DIAPHRAGM	E	21			5 10.000	2 10.500			5 5.750	24.000	8 8 8 6		26	
	8 6 F103	WING BRACE	E	15		20.000	4 3.000	20.000	16.375	11.500	16.375	11.500	7 7 7 5		89	
	2 6 F104	DIAPHRAGM	E	21	2	10.500	5 10.000				5 5.750	24.000	8 8 8 6		26	
	10 5 H101	DIAPHRAGM	E	20	3	11.000							3 11 3 11		4	
	12 9 H102	BEAM & DIAPH.	E	20	49	5.000							49 5 49 5		2016	
	4 9 H103	BEAM	E	20	10	10.000							10 10 10 10		147	
	7 6 H104	BEAM & DIAPH.	E	20	49	5.000							49 5 49 5		520	
	12 6 H105	DIAPHRAGM	E	20	9	0.000							9 0 9 0		162	
	6 6 H106	DIAPHRAGM	E	20	3	3.000							3 3 3 3		29	
	36 6 H107	WINGWALL	E	20	8	2.000							8 2 8 2		442	
	16 8 H108	WINGWALL	E	20	9	8.000							9 8 9 8		413	
	30 5 U101	BEAM	E	37S	5	2.000	2 9.000						14 0 13 8		428	
	18 4 U102	BEAM	E	13S	2	9.000	2 8.000	2 9.000	2 8.000				11 7 11 3		136	
	5 4 U103	BEAM	E	13S	2	9.000	2 10.375	2 9.000	2 10.375				12 0 11 8		39	
	40 5 U104	DIAPHRAGM	E	37S	3	1.000	2 3.000						9 4 9 1		378	
	40 6 U105	DIAPHRAGM	E	19S		22.500	2 9.000						4 7 4 5		265	
	63 6 U106	DIAPHRAGM	E	19S	3	0.000	4 3.000						7 3 7 1		670	
	20 5 V101	BEAM	E	17	5	2.000							5 9 5 9		119	
	32 6 V102	WINGWALL	E	20	6	2.000							6 2 6 2		298	
	15 6 V103	DIAPHRAGM	E	20		22.000							1 10 1 10		41	
	44 5 D101	DIAPHRAGM	E	19		24.000	15.000						3 3 3 1		143	
		END BENT NO. 4														
	8 6 F401	WING BRACE	E	15		20.000	5 8.000	20.000	11.500	16.375	11.500	16.375	9 0 8 11		107	
	2 6 F402	DIAPHRAGM	E	21			5 10.000	2 10.500			5 5.750	24.000	8 8 8 6		26	
	8 6 F403	WING BRACE	E	15		20.000	4 3.000	20.000	16.375	11.500	16.375	11.500	7 7 7 5		89	
	2 6 F404	DIAPHRAGM	E	21	2	10.500	5 10.000				5 5.750	24.000	8 8 8 6		26	
	10 5 H401	DIAPHRAGM	E	20	3	11.000							3 11 3 11		41	
	12 9 H402	BEAM & DIAPH.	E	20	49	5.000							49 5 49 5		2016	
	4 9 H403	BEAM	E	20	10	10.000							10 10 10 10		147	
	7 6 H404	BEAM & DIAPH.	E	20	49	5.000							49 5 49 5		520	
	12 6 H405	DIAPHRAGM	E	20	9	0.000							9 0 9 0		162	
	6 6 H406	DIAPHRAGM	E	20	3	3.000							3 3 3 3		29	
	36 6 H407	WINGWALL	E	20	8	2.000							8 2 8 2		442	
	16 8 H408	WINGWALL	E	20	9	8.000							9 8 9 8		413	
	30 5 U401	BEAM	E	37S	5	2.000	2 9.000						14 0 13 8		428	
	18 4 U402	BEAM	E	13S	2	9.000	2 8.000	2 9.000	2 8.000				11 7 11 3		136	
	5 4 U403	BEAM	E	13S	2	9.000	2 10.375	2 9.000	2 10.375				12 0 11 8		39	
	40 5 U404	DIAPHRAGM	E	37S	3	1.000	2 3.000						9 4 9 1		378	
	40 6 U405	DIAPHRAGM	E	19S		22.500	2 9.000						4 7 4 5		265	
	63 6 U406	DIAPHRAGM	E	19S	3	0.000	4 3.000						7 3 7 1		670	
	20 5 V401	BEAM	E	17	5	2.000							5 9 5 9		119	
	32 6 V402	WINGWALL	E	20	6	2.000							6 2 6 2		298	
	15 6 V403	DIAPHRAGM	E	20		22.000							1 10 1 10		41	
	44 5 D401	DIAPHRAGM	E	19		24.000	15.000						3 3 3 1		143	

Codes: C = Required coatings, where E = Epoxy Coated and G = Galvanized.

SH = Required shape, see bending diagrams.

V = Sets of varied bars and number of bars of each length. Bar dimensions vary in equal increments between dimensions shown on this line and the following line and the actual length dimension shown on this line and the following line vary by the specified increment.



THIS SHEET HAS BEEN
SIGNED, SEALED AND DATED
ELECTRONICALLY.

DATE PREPARED _____

12/01/2025

ROUTE	STATE
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13	MO
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DISTRICT	SHEET NO.
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BR	24
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COUNTY

POLK

JOB NO.

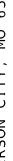
JSR0049

CONTRACT ID.

PROJECT NO.

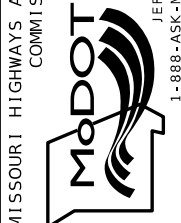
BRIDGE NO.

A9573

[illegible]

MISSOURI HIGHWAYS AND TRANSPORTATION
COMMISSION

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



VEENSTRA & KIMM INC.
A Kleinfelder Company
9788 N Ash Avenue
Kansas City, Missouri 64157
816-781-4712 816-781-0643 (FAX)
A Kleinfelder Company 200320050247

[illegible]

Nominal lengths are based on out to out dimensions shown in bending diagrams and are listed to the nearest inch for fabricator's use. Actual lengths are measured along centerline bar to the nearest inch. Weights are based on actual lengths.

For bending diagrams and steel reinforcing totals, see Sheet No. 23.

Detailed Aug. 2025
Checked Aug. 2025

Note: This drawing is not to scale. Follow dimensions.

BILL OF REINFORCING STEEL

All bars shall be ASTM A615 Grade 60.

Bill of Reinforcing Steel

No. Req.	Size/ Mark	Location	Codes			Dimensions						Nom. Length ft in.	Actual Length ft in.	Weight lb						
			C	SH	V	B ft in.		C ft in.		D ft in.					E ft in.		F ft in.		H ft in.	
		SUPERSTRUCTURE																		
		BARRIER																		
20	5	K1	BARRIER	E	27S	3	5.000	9.250	5.375	2	11.750		5.250	1.000	7	7	7	3	151	
58	5	K2	BARRIER	E	27S	3	5.000	9.250	14.500	2	2.750		14.250	2.750	7	8	7	5	449	
4	5	K3	BARRIER	E	27S		22.500	9.250	14.500		7.750	12.000	14.250	2.750	5	6	5	1	21	
20	5	K4	BARRIER	E	19S	4	2	4.250	10.000						3	2	3	0		
		INCREMENT = 0.500	INCH			2	6.250	10.000							3	4	3	2	64	
20	5	K5	BARRIER	E	38S	4			18.500	9.500	8.250	18.000	4.000	3	0	2	10			
		INCREMENT = 0.500	INCH						20.500	9.500	8.250	20.000	4.250	3	2	3	0		61	
12	5	K6	BARRIER	E	19S		2	6.750	10.000						3	5	3	3	41	
12	5	K7	BARRIER	E	21S		2	6.625	10.000				2	6.000	6.250	3	5	3	3	41
36	5	K8	BARRIER	E	19S	4	2	8.500	10.000						3	7	3	5		
		INCREMENT = 0.750	INCH			3	2.500	10.000							4	1	3	11	138	
36	5	K9	BARRIER	E	21S	4		2	8.500	10.000			2	7.750	6.750	3	7	3	5	
		INCREMENT = 0.750	INCH				3	2.500	10.000			3	1.750	7.750	4	1	3	11	138	
14	5	K10	BARRIER	E	19S		3	3.000	10.000						4	1	3	11	57	
14	5	K11	BARRIER	E	21S		3	3.000	10.000				3	2.250	7.750	4	1	3	11	57
24	5	K12	BARRIER	E	20		10	5.000							10	5	10	5	261	
12	5	K13	BARRIER	E	20	4	3	8.000							3	8	3	8		
		INCREMENT = 36.000	INCH			9	8.000								9	8	9	8	83	
24	5	K14	BARRIER	E	20		9	11.000							9	11	9	11	248	
12	5	K15	BARRIER	E	20	4	3	2.000							3	2	3	2		
		INCREMENT = 36.000	INCH			9	2.000								9	2	9	2	77	
296	5	R1	BARRIER	E	26S		3	3.000	5.500	2.250	3	1.375	5.500	3	0.750	6.750	6	11	2135	
296	5	R2	BARRIER	E	19S			20.500	9.500						2	6	2	4	720	
296	5	R3	BARRIER	E	27S			9.500	15.250	5.000	12.000	15.000	3.000		3	6	3	3	1003	
80	5	R4	BARRIER	E	20		11	9.000							11	9	11	9	980	
20	5	R5	BARRIER	E	20		33	11.000							33	11	33	11	708	
20	5	R6	BARRIER	E	20		23	9.000							23	9	23	9	495	
20	5	R7	BARRIER	E	20		34	5.000							34	5	34	5	718	
		SLIP FORM OPTION																		
40	5	C1	SLIP FORM	E	20		12	0.000							12	0	12	0	501	
8	5	C2	SLIP FORM	E	20		7	9.000							7	9	7	9	65	

Codes: C = Required coatings, where E = Epoxy Coated and G = Galvanized.

SH = Required shape, see bending diagrams.

V = Sets of varied bars and number of bars of each length. Bar dimensions vary in equal increments between dimensions shown on this line and the following line and the actual length dimension shown on this line and the following line vary by the specified increment.



THIS SHEET HAS BEEN
SIGNED, SEALED AND DATED
ELECTRONICALLY.

DATE PREPARED
12/01/2025

ROUTE	STATE
13	MO

DISTRICT	SHEET NO.
BR	25

COUNTY
POLK

JOB NO.
JSR0049

CONTRACT ID.

PROJECT NO.

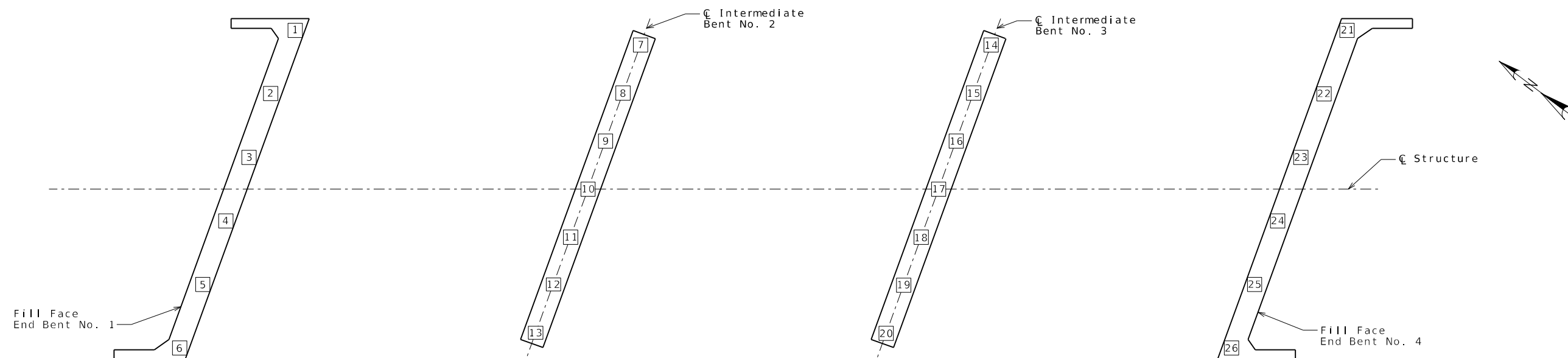
BRIDGE NO.	A9573
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[illegible]

MISSOURI HIGHWAYS AND TRANSPORTATION
COMMISSION

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

VEENSTRA & KIMM INC.
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9788 N Ash Avenue Kansas City, Missouri 64157
816-781-6182 816-781-0643 (FAX)
Fax: 816-781-6182 E-mail: veenk@veenk.com
Web: www.veenk.com

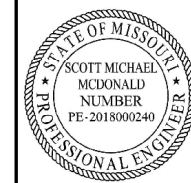


PART PLAN SHOWING PILE NUMBERING FOR RECORDING AS-BUILT PILE DATA

[illegible][illegible][illegible]

Note:
Indicate in remarks column:
A. Pile type and grade
B. Batter
C. Driven to practical refusal

This sheet to be completed by MoDOT construction personnel.



THIS SHEET HAS BEEN
SIGNED, SEALED AND DATE
ELECTRONICALLY.

DATE PREPARED

12/01/2025

ROUTE	STATE
13	MO

13	MO
DISTRICT	SHEET NO.

DISTRICT	SHEET NO
BR	26

COUNTY

POLK

JOB NO.
ISR0049

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

A9573

[illegible]

MISSOURI HIGHWAYS AND TRANSPORTATION
COMMISSION

105 WEST CAPITAL
JEFFERSON CITY, MO 65102



Missouri Department of Transportation
Construction and Materials

BORING NO. 102B
Page 1 of 1

Job No.: JSR0049
Design: A9573
Bent: 1
Station: 183+42.6
Offset: 24.7 R
Elevation: 895.7
Requested Station:
Requested Offset:
Requested Elevation:
Drill No.: 360485-PPI
County: Polk
Skew: 20 Deg LA
Logged By: Ricardo Todd
Northing: 713393.4
Easting: 1327577.9
Requested Northing:
Requested Easting:
Equipment: CME 55 LC ,Split-Spoon Sampler, NQ
Location Note:
Route: 13
Location: 0.6 Miles South of Route N in Humansville
Operator: Josh Starey
Date of Work: 04/15/24-04/15/24
Depth to Water:
Depth Hole Open:
Time Change:
Hammer Efficiency:
Drilling Method: Hollow Stem Auger

Depth (ft)	Graphic	Description	Elevation (ft)	Sample Type	REC % (RQD %)	Blow Counts (N ₆₀)	Shear Data	Field Tests	Index Tests
0		0.0-10.1' Grayish tan, GRAVELLY LEAN CLAY trace cobbles, stiff, moist	895						
5			890	⊗	67	2-4-9 (18)		PP = 1.00 tsf	
10		10.1-13.2' Gray, LEAN CLAY scattered gravel, trace cobbles, stiff, moist	885	⊗	73	1-5-2 (10)		PP = 1.25 tsf	MC = 25.7% γ _{sat} = 124 pcf ⁽¹⁾ LL = 31 PL = 17
15		13.2-16.0' Whitish gray, GRAVEL, loose to medium dense, moist, medium grained	880	⊗					
20		16.0-16.5' Shale, gray, highly weathered 16.5-30.0' Shale, gray, thinly laminated, very weak rock to weak rock	875		33	2-8-15 (32)		PP = 7.50 tsf	
25			870		57		Qu Test Results MC = 7.249467% γ _{moist} = 150.9 pcf	PP = 9.00 tsf	
30					98		Qu Test Results	PP = 9.00 tsf	
35		Bottom of borehole at 30.0 feet.			88				

N₆₀ = (Em/60)N_m N₆₀ - Corrected N value for standard 60% SPT efficiency; Em - Measured hammer efficiency in percent; N_m - Observed N-value; (1) = Assumed, (2) = Actual

Coordinate System: Modified U.S. State Plane 1983 Coordinate Zone: Missouri Central Coordinate Proj. Factor: .9999853

Coordinate Datum: NAD 83 (CONUS) Coordinate Units: U.S. Survey Feet

* Persons using this information are cautioned that the materials shown are determined by the equipment noted and accuracy of the "log of materials" is limited thereby and by judgement of the operator. THIS INFORMATION IS FOR DESIGN PURPOSES ONLY.

Missouri Department of Transportation
Construction and Materials

BORING NO. 201B
Page 1 of 1

Job No.: JSR0049
Design: A9573
Bent: 2
Station: 183+73.3
Offset: 27.3 L
Elevation: 887.7
Requested Station:
Requested Offset:
Requested Elevation:
Drill No.: 360485-PPI
County: Polk
Skew: 20 Deg LA
Logged By: Ricardo Todd
Northing: 713386.2
Easting: 1327648.6
Requested Northing:
Requested Easting:
Equipment: CME 55 LC ,Grab Sample, Split-Spoon Sampler, NQ
Location Note:
Route: 13
Location: 0.6 Miles South of Route N in Humansville
Operator: Josh Starey
Date of Work: 04/09/24-04/10/24
Depth to Water:
Depth Hole Open:
Time Change:
Hammer Efficiency:
Drilling Method: Hollow Stem Auger

Depth (ft)	Graphic	Description	Elevation (ft)	Sample Type	REC % (RQD %)	Blow Counts (N ₆₀)	Shear Data	Field Tests	Index Tests
0		0.0-6.3' Gray, GRAVEL with lean clay, with sand, scattered cobbles, stiff, moist	885						
5		6.3-7.3' Shale, gray, highly weathered	880	⊗	€7	7-7-3 (14)		PP = 7.00 tsf	Sieve Analysis Sieve # % Passing 1/2" 100.0 1" 93.3 3/4" 76.3 3/8" 50.5 #4 33.2 #10 19.8 #16 14.0 #40 10.0 #50 9.1 #100 8.0 #200 7.7
10		7.3-28.7' Shale, gray, thinly laminated, very weak rock to weak rock	875		€7	50/0.3', 10/0'	Qu Test Results MC = 7.746479% γ _{moist} = 153 pcf	PP = 9.00 tsf	
15			870		€6		Qu Test Results MC = 7.322176% γ _{moist} = 153.9 pcf	PP = 9.00 tsf	
20			865		100		Qu Test Results MC = 7.757405% γ _{moist} = 152.8 pcf	PP = 9.00 tsf	
25			860		€6		Qu Test Results MC = 8.195542% γ _{moist} = 150.5 pcf	PP = 9.00 tsf	
30		28.7-35.3' Cherty Dolomite, whitish gray, thin bedded to medium bedded, strong rock to very strong rock, slightly weathered, fine grained	855		100 (70)		Qu Test Results MC = 7.247387% γ _{moist} = 153.9 pcf	PP = 9.00 tsf	
35		Bottom of borehole at 35.3 feet.			100 (€0)		Qu Test Results UCS = 1330 ksf MC = 0% γ _{moist} = 161.8 pcf		

N₆₀ = (Em/60)N_m N₆₀ - Corrected N value for standard 60% SPT efficiency; Em - Measured hammer efficiency in percent; N_m - Observed N-value; (1) = Assumed, (2) = Actual

Coordinate System: Modified U.S. State Plane 1983 Coordinate Zone: Missouri Central Coordinate Proj. Factor: .9999853

Coordinate Datum: NAD 83 (CONUS) Coordinate Units: U.S. Survey Feet

* Persons using this information are cautioned that the materials shown are determined by the equipment noted and accuracy of the "log of materials" is limited thereby and by judgement of the operator. THIS INFORMATION IS FOR DESIGN PURPOSES ONLY.

BORING DATA

Note: For locations of borings, see Sheet No. 1.

Note: This drawing is not to scale. Follow dimensions.

Sheet No. 27 of 29

Detailed May 2025
Checked X X



THIS SHEET HAS BEEN
SIGNED, SEALED AND DATED
ELECTRONICALLY.

DATE PREPARED
12/01/2025

ROUTE
13

STATE
MO

DISTRICT
BR

SHEET NO.
27

COUNTY
POLK

JOB NO.
JSR0049

CONTRACT ID.

PROJECT NO.

BRIDGE NO.
A9573

DESCRIPTION

DATE

MISSOURI HIGHWAYS AND TRANSPORTATION
COMMISSION

105 WEST CAPITOL
JEFFERSON CITY, MO 65102

1-888-ASK-MODOT (1-888-275-6636)

VEENSTRA & KIMM INC.

A Kleinfelder Company

9788 N Ash Avenue
Kansas City, Missouri 64157

816-781-6182
816-781-0643 (FAX)

Certificate of Authority No. 2002006347

Missouri Department of Transportation
Construction and Materials

BORING NO. 301B
Page 1 of 1

Job No.: JSR0049
Design: A9573
Bent: 3
Station: 184+31.2
Offset: 21.6 L
Elevation: 886.3
Requested Station:
Requested Offset:
Requested Elevation:
Drill No.: 360485-PPI
County: Polk
Skew: 20 Deg LA
Logged By: Ricardo Todd
Northing: 713336.7
Easting: 1327678.9
Requested Northing:
Requested Easting:
Equipment: CME 55 LC ,Split-Spoon Sampler, NQ
Location Note:
Route: 13
Location: 0.6 Miles South of Route N in Humansville
Operator: Josh Starey
Date of Work: 04/08/24-04/08/24
Depth to Water:
Depth Hole Open:
Time Change:
Hammer Efficiency:
Drilling Method: Hollow Stem Auger

Depth (ft)	Graphic	Description	Elevation (ft)	Sample Type	REC % (RQD %)	Blow Counts (N ₆₀)	Shear Data	Field Tests	Index Tests
0		0.0-5.2' Gray, GRAVELLY LEAN CLAY scattered cobbles, moist	885						
5		5.2-5.8' Shale, gray, highly weathered 5.8-26.2' Shale, gray, thinly laminated, very weak rock to weak rock	880		75	45-50/0.2', 10/0'	Qu Test Results MC = 8.446671% γ _{moist} = 151.5 pcf	PP = 7.50 tsf	
10			875		91		Qu Test Results MC = 8.327351% γ _{moist} = 150.9 pcf	PP = 9.00 tsf	
15			870		96		Qu Test Results MC = 8.327299% γ _{moist} = 149.6 pcf	PP = 9.00 tsf PP = 9.00 tsf	
20			865		84		Qu Test Results UCS = 98.4 ksf MC = 6.9% γ _{moist} = 152.1 pcf	PP = 9.00 tsf	
25		26.2-35.3' Cherty Dolomite, whitish gray, thin bedded to medium bedded, very strong rock, slightly weathered, fine grained	860		100 (72)		Qu Test Results UCS = 1450 ksf MC = 0% γ _{moist} = 162.8 pcf		
30			855		94 (60)		Qu Test Results UCS = 1320 ksf MC = 0% γ _{moist} = 146 pcf		
35		Bottom of borehole at 35.3 feet.							

N₆₀ = (Em/60)N_m N₆₀ - Corrected N value for standard 60% SPT efficiency; Em - Measured hammer efficiency in percent; N_m - Observed N-value; (1) = Assumed, (2) = Actual

Coordinate System: Modified U.S. State Plane 1983 Coordinate Zone: Missouri Central Coordinate Proj. Factor: .9999853

Coordinate Datum: NAD 83 (CONUS) Coordinate Units: U.S. Survey Feet

* Persons using this information are cautioned that the materials shown are determined by the equipment noted and accuracy of the "log of materials" is limited thereby and by judgement of the operator. THIS INFORMATION IS FOR DESIGN PURPOSES ONLY.

Missouri Department of Transportation
Construction and Materials

BORING NO. 402B
Page 1 of 1

Job No.: JSR0049
Design: A9573
Bent: 4
Station: 184+56.0
Offset: 27.3 R
Elevation: 895.2
Requested Station:
Requested Offset:
Requested Elevation:
Drill No.: 360485-PPI
County: Polk
Skew: 20 Deg LA
Logged By: Ricardo Todd
Northing: 713287.3
Easting: 1327654.9
Requested Northing:
Requested Easting:
Equipment: CME 55 LC ,Split-Spoon Sampler, NQ
Location Note:
Route: 13
Location: 0.6 Miles South of Route N in Humansville
Operator: Josh Starey
Date of Work: 04/09/24-04/09/24
Depth to Water:
Depth Hole Open:
Time Change:
Hammer Efficiency:
Drilling Method: Hollow Stem Auger

Depth (ft)	Graphic	Description	Elevation (ft)	Sample Type	REC % (RQD %)	Blow Counts (N ₆₀)	Shear Data	Field Tests	Index Tests
0		0.0-3.2' Grayish tan, GRAVELLY LEAN CLAY scattered cobbles, moist	895						
5		3.2-4.5' Cobbles & Boulders 4.5-9.3' Orangish tan, GRAVELLY LEAN CLAY trace cobbles, stiff, moist	890		67	4-6-7 (18)		PP = 1.50 tsf	MC = 14.5% γ _{sat} = 138 pcf ⁽¹⁾ LL = 46 PL = 18
10		9.3-9.7' BOULDERS 9.7-10.3' Tan, GRAVELLY LEAN CLAY trace cobbles, moist 10.3-14.7' Gray, LEAN CLAY trace gravel, and organics, stiff, moist	885		73	2-2-5 (10)		PP = 1.25 tsf	MC = 21.8% γ _{sat} = 128 pcf ⁽¹⁾ LL = 30 PL = 18
15		14.7-15.7' Shale, gray, highly weathered 15.7-23.4' Shale, gray, thinly laminated, very weak rock to weak rock	880		66	35-50/0.1', 10/0'		PP = 7.50 tsf	MC = 12.3% γ _{sat} = 141 pcf ⁽¹⁾
20			875		100		Qu Test Results MC = 8.764368% γ _{moist} = 151.4 pcf	PP = 9.00 tsf	
25		23.4-25.7' Cherty Dolomite, whitish gray, thin bedded, strong rock to very strong rock, slightly weathered, fine grained Bottom of borehole at 25.7 feet.	870		100 (20)		Qu Test Results MC = 6.821378% γ _{moist} = 151.9 pcf		

N₆₀ = (Em/60)N_m N₆₀ - Corrected N value for standard 60% SPT efficiency; Em - Measured hammer efficiency in percent; N_m - Observed N-value; (1) = Assumed, (2) = Actual

Coordinate System: Modified U.S. State Plane 1983 Coordinate Zone: Missouri Central Coordinate Proj. Factor: .9999853

Coordinate Datum: NAD 83 (CONUS) Coordinate Units: U.S. Survey Feet

* Persons using this information are cautioned that the materials shown are determined by the equipment noted and accuracy of the "log of materials" is limited thereby and by judgement of the operator. THIS INFORMATION IS FOR DESIGN PURPOSES ONLY.

BORING DATA

Note: For locations of borings, see Sheet No. 1.

Note: This drawing is not to scale. Follow dimensions.

Sheet No. 28 of 29

Detailed Jun. 2025
Checked X X



THIS SHEET HAS BEEN
SIGNED, SEALED AND DATED
ELECTRONICALLY.

DATE PREPARED
12/01/2025

ROUTE
13

STATE
MO

DISTRICT
BR

SHEET NO.
28

COUNTY
POLK

JOB NO.
JSR0049

CONTRACT ID.

PROJECT NO.

BRIDGE NO.
A9573

DESCRIPTION

DATE

MISSOURI HIGHWAYS AND TRANSPORTATION
COMMISSION

105 WEST CAPITOL
JEFFERSON CITY, MO 65102

1-888-ASK-MODOT (1-888-275-6636)

VEENSTRA
& KIMM INC.

A Kleinfelder Company

Kansas City, Missouri 64157

9788 N Ash Avenue

816-781-6182

816-781-0643 (FAX)

Certificate of Authority No. 2002006347

Job No.: JSR0049

Design: A9573

Bent: 4

Station: 184+74.4

Offset: 23.7 L

Elevation: 895.3

Requested Station:

Requested Offset:

Requested Elevation:

Drill No.: 360485-PPI

Missouri Department of Transportation
Construction and Materials

County: Polk

Skew: 20 Deg LA

Logged By: Ricardo Todd

Northing: 713305.8

Easting: 1327704.9

Requested Northing:

Requested Easting:

Equipment: CME 55 LC ,NQ

Location Note:

Hammer Efficiency:

BORING NO. Anger-1 (401B)
Page 1 of 1

Route: 13

Location: 0.6 Miles South of Route N in Humansville

Operator: Josh Starey

Date of Work: 04/08/24-04/09/24

Depth to Water:

Depth Hole Open:

Time Change:

Drilling Method: Continuous Flight Auger

Depth (ft)	Graphic	Description	Elevation (ft)	Sample Type	REC % (RQD %)	Blow Counts (N ₆₀)	Shear Data	Field Tests	Index Tests
0			895						
5		0.0-15.4' Dark brownish gray, GRAVELLY LEAN CLAY scattered cobbles, stiff, moist	890						
10			885						
15		15.4-17.4' Shale, gray, thinly laminated, soft	880						
		Bottom of borehole at 17.4 feet.							

N₆₀ = (Em/60)Nm N₆₀ - Corrected N value for standard 60% SPT efficiency; Em - Measured hammer efficiency in percent; Nm - Observed N-value; (1) = Assumed, (2) = Actual

Coordinate System: Modified U.S. State Plane 1983 Coordinate Zone: Missouri Central Coordinate Proj. Factor: .9999853

Coordinate Datum: NAD 83 (CONUS) Coordinate Units: U.S. Survey Feet

* Persons using this information are cautioned that the materials shown are determined by the equipment noted and accuracy of the "log of materials" is limited thereby and by judgement of the operator. THIS INFORMATION IS FOR DESIGN PURPOSES ONLY.

MoDOT

Missouri Department of Transportation

CLIENT

PROJECT NUMBER JSR0049

KEY TO SYMBOLS

PROJECT NAME Bridge Replacement

PROJECT LOCATION 0.6 Miles South of Route N in Humansville

LITHOLOGIC SYMBOLS
(Unified Soil Classification System)

Boulders and cobbles

USCS Low Plasticity Clay

USCS Low Plasticity Gravelly Clay

Dolomite

USCS Poorly-graded Gravel

USCS Well-graded Gravel with Clay

Shale

SAMPLER SYMBOLS

Rock Core Barrel

Grab Sample

Split-Spoon Sampler

WELL CONSTRUCTION SYMBOLS

ABBREVIATIONS

LL - LIQUID LIMIT (%)

PI - PLASTIC INDEX (%)

W - MOISTURE CONTENT (%)

DD - DRY DENSITY (PCF)

NP - NON PLASTIC

-200 - PERCENT PASSING NO. 200 SIEVE

PP - POCKET PENETROMETER (TSF)

Qu - UNCONFINED COMPRESSIVE STRENGTH (PSF)

TV - TORVANE

PID - PHOTOIONIZATION DETECTOR

UC - UNCONFINED COMPRESSION

ppm - PARTS PER MILLION

Water Level at Time of Drilling

Water Level at End of Drilling

Water Level after Drilling

Detailed Jun. 2025
Checked X X

Note: This drawing is not to scale. Follow dimensions.

BORING DATA
Note: For locations of borings, see Sheet No. 1.
Sheet No. 29 of 29

DESIGN DESIGNATION

A.A.D.T. - 2023 = 9847

A.A.D.T. - 2043 = 17232

T = 15.7%

V = 65 M.P.H.

FUNCTIONAL CLASSIFICATION - RURAL FREEWAY

NO NEW R/W OR EASEMENTS
TO BE ACQUIRED

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

OVERHEAD CABLE TV

UNDERGROUND CABLE TV

OVERHEAD TELEPHONE

UNDERGROUND TELEPHONE

OVERHEAD POWER

UNDERGROUND POWER

SANITARY SEWER

STORM SEWER

GAS

WATER

- FO -

- OTV -

- UTV -

- OT -

- UT -

- OE -

- UE -

- S -

- SS -

- G -

- W -

- FO -

- OTV -

- UTV -

- OT -

- UT -

- OE -

- UE -

- S -

- SS -

- G -

- W -

MANHOLE

FIRE HYDRANT

WATER VALVE

WATER METER

DROP INLET

DITCH BLOCK

GROUND MOUNTED SIGN

LIGHT POLE

H-FRAME POWER POLE

TELEPHONE PEDESTAL

FENCE

CHAIN LINK

WOVEN WIRE

GATE POST

BENCHMARK

SAN

HTD

WV

WM

DI

SIGN

PED

V

X

BM

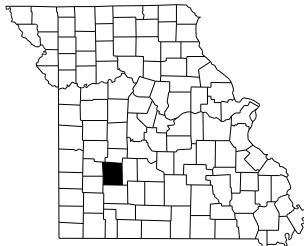
NOTE: DASHED OR OPEN SYMBOLS INDICATE EXISTING FEATURES

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

PLANS FOR PROPOSED

STATE HIGHWAY

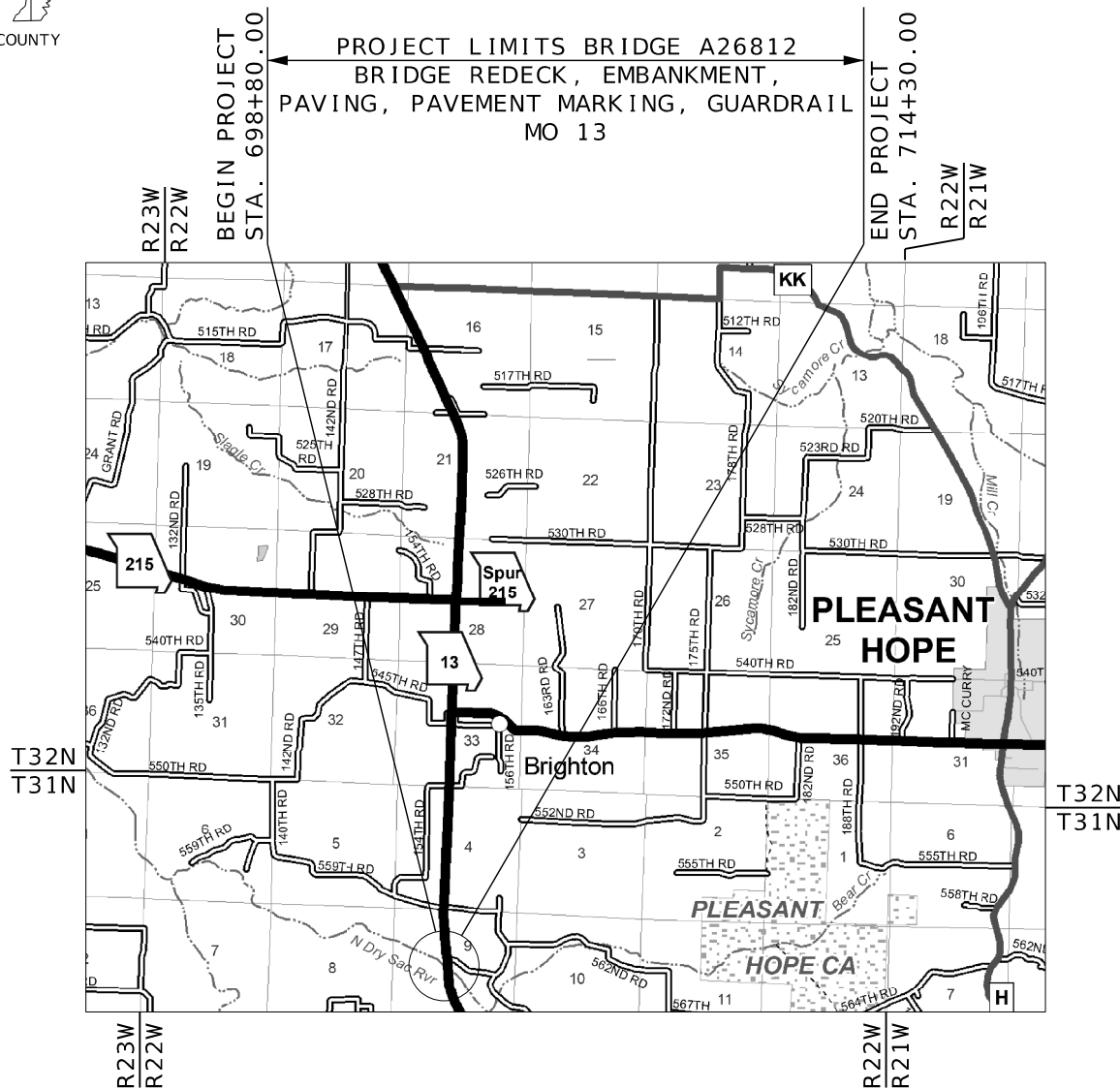
POLK COUNTY



KEY MAP
LOCATION OF POLK COUNTY



NOT TO SCALE



PROJECT LIMITS BRIDGE A26812
BRIDGE REDECK, EMBANKMENT,
PAVING, PAVEMENT MARKING, GUARDRAIL
MO 13

BEGIN PROJECT
STA. 698+80.00

END PROJECT
STA. 714+30.00

PLEASANT HOPE

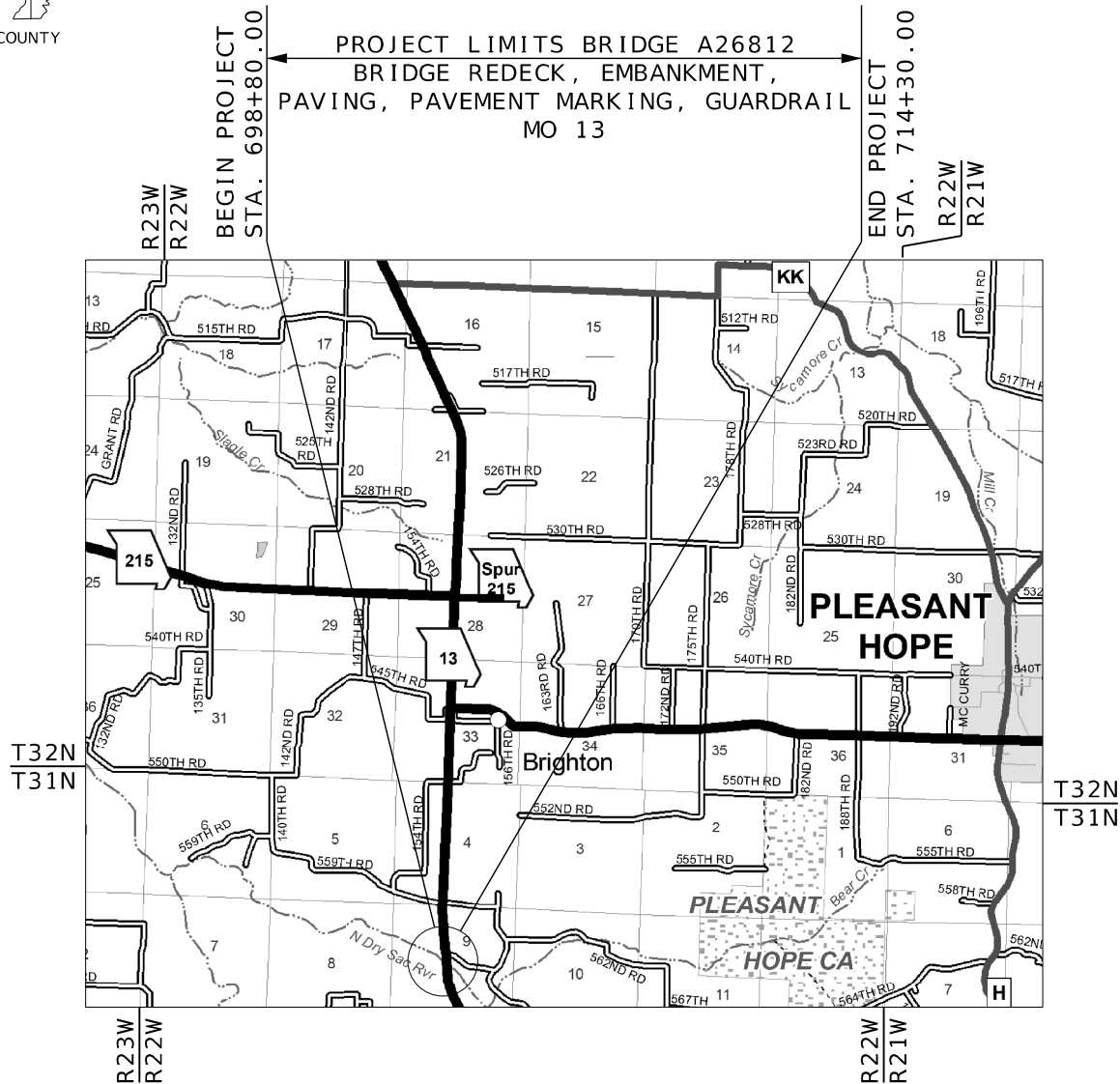
Brighton

PLEASANT HOPE CA

R23W R22W R22W R21W

T32N T31N T32N T31N

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) (3 SHEETS)-----	3
PLAN-PROFILE (PP)-----	4-5
REFERENCE POINTS (RP)-----	6
COORDINATE POINTS (CP)-----	7
SPECIAL SHEETS (SS)-----	8-10
TRAFFIC CONTROL (TC)-----	11-21
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SIGNING (SN)-----	23
PAVEMENT MARKING (PM)-----	24-30
BRIDGE DRAWINGS (B)	
A26812-----	1-17

		THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.		
		DATE PREPARED 12/1/2025		
ROUTE 13		STATE MO		
DISTRICT SW		SHEET NO. 1		
COUNTY POLK				
JOB NO. JSR0183				
CONTRACT ID.				
PROJECT NO.				
BRIDGE NO. A26812				
DESCRIPTION				
DATE				
TRANSPORTATION	105 WEST CAPITOL SON CITY, MO 65102 T (1-888-275-6636)			

LENGTH OF PROJECT

BEGINNING OF PROJECT	STA.	698+80.00
END OF PROJECT	STA.	714+30.00
APPARENT LENGTH		1550.00 FEET

EQUATIONS AND EXCEPTIONS:

TOTAL CORRECTIONS	0.00	FEET
NET LENGTH OF PROJECT	1550.00	FEET
STATE LENGTH	0.293	MILES

FOR INFORMATION ONLY	1	ACRE
ESTIMATED DISTURBED ACRES		

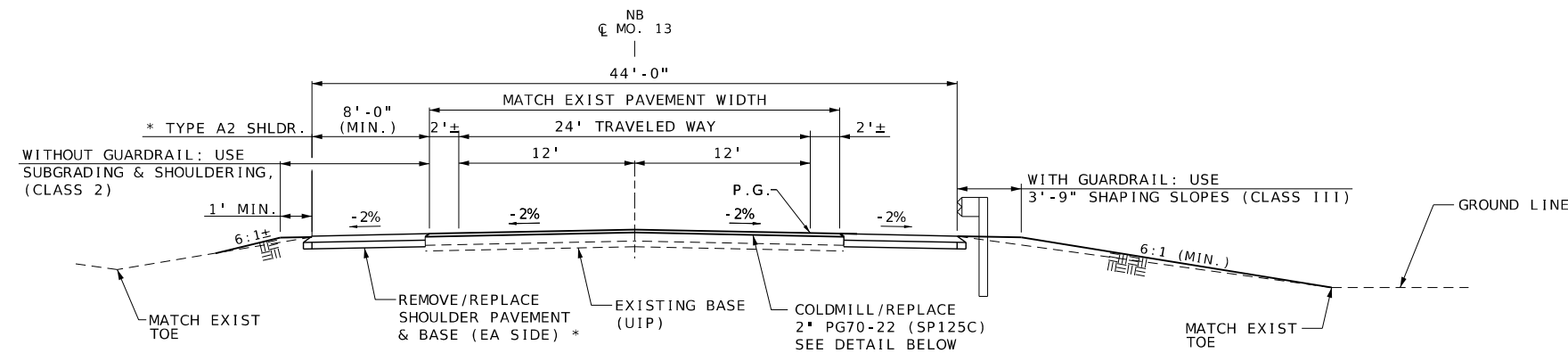
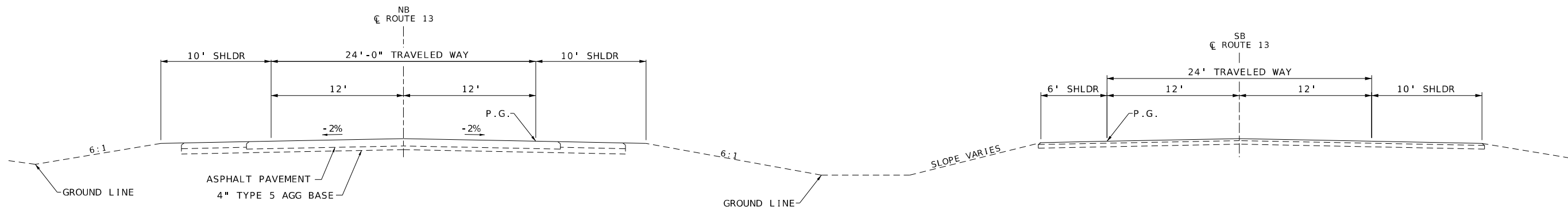
MISSOURI HIGHWAYS AND
COMMISSION

JEFFERSON
1-888-ASK-A-MODOT

**VEENSTRA
& KIMM INC.**

A Kleinfelder Company

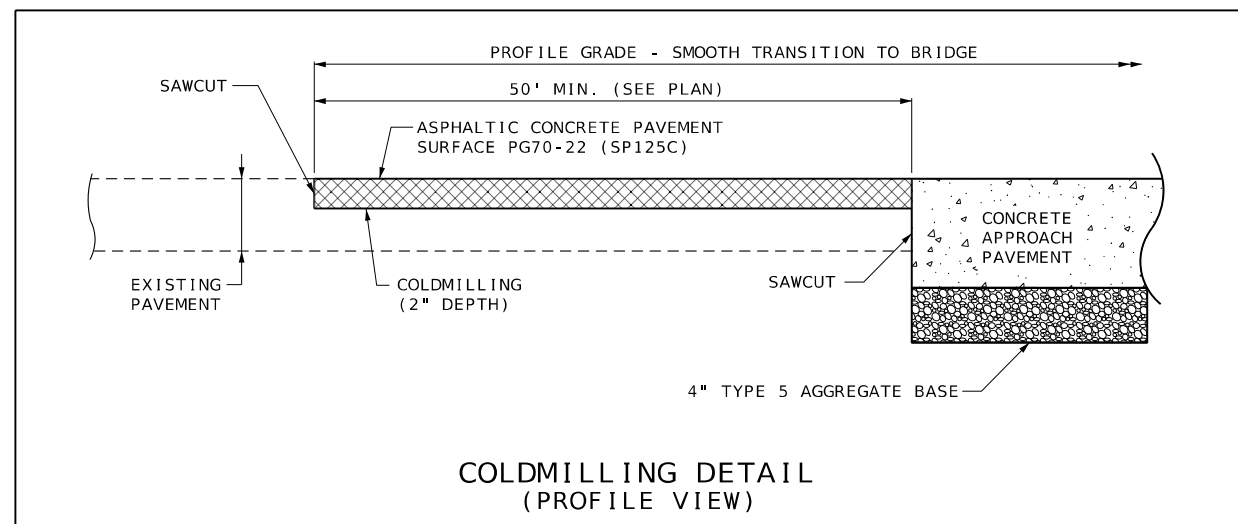
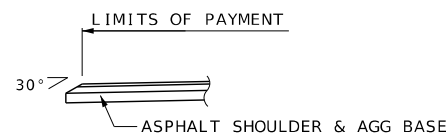
9788 N Ash Avenue
Kansas City, Missouri 64157
816-781-6182
816-781-0643 (FAX)
Certificate of Authority No. 2002006347



- * TYPE A2 (OPTIONAL) SHOULDERS:
BITUMINOUS PAVEMENT:
1 3/4" SURFACE (PG 64-22, BP-1)
4" BASE (PG 64-22)
6" TYPE 5 AGG FOR BASE
- PCC PAVEMENT:
5 3/4" PCC PAVEMENT
6" TYPE 5 AGG FOR BASE
- REMOVE/REPLACE ASPHALT SHOULDER,
PHASE 1 & 2.
- STA. 700+00 TO 702+08, LT.
STA. 698+80 TO 701+71, RT.
STA. 705+22 TO 714+30, LT.
STA. 704+86 TO 714+10, RT.

ESTIMATE FACTORS

ASPHALTIC CONCRETE MIXTURE PG 70-22 (SP125C)	= 1.927	TON/CY
BITUMINOUS PAVEMENT MIXTURE PG 64-22 (BP-1)	= 1.948	TON/CY
BITUMINOUS PAVEMENT MIXTURE PG 64-22 (BASE)	= 1.943	TON/CY
TACK COAT	= 0.100	GAL/SY



NOTES:

EDGE LINE RUMBLE STRIPS SHALL BE CONSTRUCTED ON SHOULDERS PER SPECIFICATIONS.

CONSTRUCTION PHASING: NORTHBOUND LANES BRIDGE NO. A2681

PHASE 1: CONSTRUCT NEW ROADWAY SHOULDERS ON EAST SIDE OF ROADWAY. SHOULDERS TO BE UTILIZED FOR TEMPORARY CONSTRUCTION TRAFFIC. USE STATIONARY LANE CLOSURE ON EAST SIDE OF ROADWAY.

PHASE 2: CONSTRUCT NEW ROADWAY SHOULDERS ON WEST SIDE OF ROADWAY. SHOULDERS TO BE UTILIZED FOR TEMPORARY CONSTRUCTION TRAFFIC. USE STATIONARY LANE CLOSURE ON WEST SIDE OF ROADWAY.

PHASE 3: CONSTRUCT BRIDGE IMPROVEMENTS ON WEST SIDE OF BRIDGE. USE STATIONARY LANE CLOSURE WITH TEMPORARY TRAFFIC BARRIER ON WEST SIDE OF NORTHBOUND LANES.

PHASE 4: CONSTRUCT BRIDGE IMPROVEMENTS ON EAST SIDE OF BRIDGE. USE STATIONARY LANE CLOSURE WITH TEMPORARY TRAFFIC BARRIER ON EAST SIDE OF NORTHBOUND LANES.

TYPICAL SECTION
SHEET 1 OF 2



THIS SHEET HAS BEEN
SIGNED, SEALED AND DATED
ELECTRONICALLY.

DATE PREPARED
12/1/2025

ROUTE 13 STATE MO
DISTRICT SW SHEET NO. 2

COUNTY POLK
JOB NO. JSR0183
CONTRACT ID.

PROJECT NO.

BRIDGE NO. A26812

DESCRIPTION	DATE

MISSOURI HIGHWAYS AND TRANSPORTATION
COMMISSION

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

VEENSTRA & KIMM INC.
A Kleinfelder Company
9788 N Ash Avenue
Kansas City, Missouri 64157
816-781-6182 816-781-0643 (FAX)
Certificate of Authority No. 2002006347



TYPICAL SECTION
SHEET 2 OF 2



RUMBLE STRIPS FOR OPTIONAL PAVEMENT				
STATION	LOCATION	SIDE	SHOULDER RUMBLE STRIP (STA)	REMARKS
700+98 TO 701+97	MO. 13	LT	1.0	LEFT EDGELINE
705+20 TO 705+96	MO. 13	LT	0.8	LEFT EDGELINE
700+98 TO 701+71	MO. 13	LT	0.7	RIGHT EDGELINE
704+95 TO 705+96	MO. 13	LT	1.0	RIGHT EDGELINE
PAY TOTAL			3.5	

REMOVAL OF IMPROVEMENTS				
STATION	LOCATION	SIDE	QUANTITY (LS)	REMARKS
700+00 TO 714+30	MO. 13	LT	-	LEFT ROADWAY SHOULDER
698+80 TO 714+10	MO. 13	LT	-	RIGHT ROADWAY SHOULDER
700+98 TO 702+05	MO. 13	LT	-	EXISTING ROAD & APPROACH SLAB
704+89 TO 705+96	MO. 13	LT	-	EXISTING ROAD & APPROACH SLAB
704+89 TO 708+90	MO. 13	LT	-	EXISTING GUARDRAIL, 2 SIDES OF ROAD
705+25	MO. 13	LT	-	EXISTING SIGN (AS REQUIRED)
PAY TOTAL			1	

SEEDING/MULCHING					
STATION	LOCATION	SIDE	SEEDING (AC)	MULCHING (AC)	REMARKS
699+00 TO 702+35	MO. 13	LT	0.2	0.2	EAST SIDE EMBANKMENT
699+00 TO 701+93	MO. 13	LT	0.2	0.2	WEST SIDE EMBANKMENT
705+08 TO 714+30	MO. 13	LT	0.4	0.4	EAST SIDE EMBANKMENT
704+63 TO 714+10	MO. 13	LT	0.4	0.4	WEST SIDE EMBANKMENT
TOTAL			1.2	1.2	
PAY TOTAL			1.2	1.2	

TYPE 5 AGGREGATE FOR BASE (4 IN. THICK)				
STATION	LOCATION	SIDE	QUANTITY (SY)	REMARKS
701+48 TO 701+85	MO. 13	LT	165.0	SEE STD. PLAN 504.00
705+08 TO 705+46	MO. 13	LT	165.0	SEE STD. PLAN 504.00
TOTAL			330.0	
PAY TOTAL			330	

TYPE 5 AGGREGATE FOR BASE (6 IN. THICK)				
STATION	LOCATION	SIDE	QUANTITY (SY)	REMARKS
700+00 TO 702+25	MO. 13	LT	313.1	LEFT SHOULDER
698+80 TO 701+48	MO. 13	LT	281.7	RIGHT SHOULDER
705+08 TO 714+30	MO. 13	LT	865.0	LEFT SHOULDER
705+46 TO 714+10	MO. 13	LT	795.5	RIGHT SHOULDER
TOTAL			2255.3	
PAY TOTAL			2256	

ADDITIONAL MOBILIZATION FOR SEEDING	
EACH	4

CONCRETE APPROACH PAVEMENT				
STATION	LOCATION	SIDE	QUANTITY (SY)	REMARKS
701+48 TO 701+85	MO. 13	LT	181.8	SEE STD. PLAN 504.00
705+08 TO 705+46	MO. 13	LT	181.8	SEE STD. PLAN 504.00
PAY TOTAL			363.6	

TYPE A2 SHOULDER				
STATION	LOCATION	SIDE	QUANTITY (SY)	REMARKS
700+00 TO 702+25	MO. 13	LT	313.1	LEFT SHOULDER
698+80 TO 701+48	MO. 13	LT	281.7	RIGHT SHOULDER
705+08 TO 714+30	MO. 13	LT	865.0	LEFT SHOULDER
705+46 TO 714+10	MO. 13	LT	795.5	RIGHT SHOULDER
PAY TOTAL			2255.3	

PAVEMENT AND BASE						
STATION	LOCATION	SIDE	ASPHALT SP 125C (PG 70-22) (TON)	TACK COAT (GAL)	COLDMILLING (2") (SY)	REMARKS
700+98 TO 701+48	MO. 13	LT	16.7	15.6	155.6	2" PAVEMENT
705+46 TO 705+96	MO. 13	LT	16.7	15.6	155.6	2" PAVEMENT
TOTAL			33.4	31.2	311.2	
PAY TOTAL			33.4	31.2	312	

EARTHWORK						
STATION	LOCATION	SIDE	SUBGRADING & SHOULDERING (CLASS 2) (100 FT)	SHAPING SLOPES (CLASS 3) (100 FT)	COMPACTING IN CUT (STA)	REMARKS
698+80 TO 702+05	MO. 13	LT	3.4			SHOULDER CONSTRUCTION, LEFT & RIGHT
704+89 TO 714+30	MO. 13	LT	9.4			SHOULDER CONSTRUCTION, LEFT & RIGHT
705+21 TO 708+35	MO. 13	LT		3.1		GUARDRAIL WIDENING, LEFT & RIGHT
704+77 TO 707+90	MO. 13	LT		3.1		GUARDRAIL WIDENING, LEFT & RIGHT
701+48 TO 702+05	MO. 13	LT			0.6	ROADWAY COMPACTION, POST EXCAVATION
704+89 TO 705+46	MO. 13	LT			0.6	ROADWAY COMPACTION, POST EXCAVATION
TOTAL			12.8	6.2	1.2	
PAY TOTAL			13	7	1.2	



DATE PREPARED 12/1/2025	
ROUTE 13	STATE MO
DISTRICT SW	SHEET NO. 3
COUNTY POLK	
JOB NO. JSR0183	
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO. A26812	

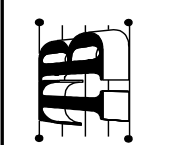
DESCRIPTION	DATE

MISSOURI HIGHWAYS AND TRANSPORTATION
COMMISSION

MoDOT

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

Taliaferro & Browne, Inc.
Civil / Structural Engineering,
Landscape Architecture & Surveying
10201 E. 80th Street, Suite 100
Kansas City, MO 64114
PH (816) 283-3456 FAX (816) 283-0810
PROFESSIONAL ENGINEERING CORPORATION
MISSOURI LICENSE NO. 000468 KANSAS LICENSE NO. F-1481
PROFESSIONAL LAND SURVEYING CORPORATION
MISSOURI LICENSE NO. 000094



TEMPORARY PAVEMENT MARKING						
STATION	LOCATION	SIDE	4" YELLOW TEMPORARY PAVEMENT MARKING PAINT (LF)	4" WHITE TEMPORARY PAVEMENT MARKING PAINT (LF)	PAVEMENT MARKING REMOVAL (LF)	REMARKS
698+81 TO 711+00	MO. 13	LT		1219		BEGIN PHASE 3 - EAST EDGE TRAFFIC LANE
699+27 TO 731+78	MO. 13	LT	3251			BEGIN PHASE 3 - WEST EDGE TRAFFIC LANE
698+81 TO 700+98	MO. 13	LT			54	BEGIN PHASE 3 - EXIST. INTERMITTENT C MARKING (LANE LINE)
705+96 TO 731+78	MO. 13	LT			646	BEGIN PHASE 3 - EXIST. INTERMITTENT C MARKING (LANE LINE)
698+81 TO 711+00	MO. 13	LT			1219	BEGIN PHASE 3 - EAST EDGE EXIST LANE LINE
698+81 TO 731+78	MO. 13	LT		3297		BEGIN PHASE 4 - EAST EDGE TRAFFIC LANE
698+81 TO 714+09	MO. 13	LT	1528			BEGIN PHASE 4 - WEST EDGE TRAFFIC LANE
698+81 TO 714+09	MO. 13	LT			1528	BEGIN PHASE 4 - WEST EDGE EXIST. LANE
709+50 TO 731+78	MO. 13	LT			2228	BEGIN PHASE 4 - WEST EDGE TRAFFIC LANE
698+81 TO 700+98	MO. 13	LT			217	BEGIN PHASE 4 - TEMP. EAST EDGE TRAFFIC LANE
705+96 TO 711+00	MO. 13	LT			504	BEGIN PHASE 4 - TEMP. EAST EDGE TRAFFIC LANE
699+27 TO 700+98	MO. 13	LT			171	BEGIN PHASE 4 - TEMP. WEST EDGE TRAFFIC LANE
705+96 TO 709+50	MO. 13	LT			354	BEGIN PHASE 4 - TEMP. EDGELINE, EAST SIDE 4" WHITE/YELLOW
698+81 TO 714+09	MO. 13	LT			1528	END PHASE 4 - TEMP. WEST EDGE TRAFFIC LANE
698+81 TO 731+78	MO. 13	LT			3297	END PHASE 4 - TEMP. EAST EDGE TRAFFIC LANE
TOTAL			4779	4516		
PAY TOTAL			9295		11743	

TEMPORARY EROSION CONTROL					
STATION	LOCATION	SIDE	SILT FENCE (LF)	SEDIMENT REMOVAL (CY)	REMARKS
700+00 TO CREEK	MO. 13	LT	227	2.3	
698+80 TO CREEK	MO. 13	LT	300	3.0	
CREEK TO 714+30	MO. 13	LT	844	8.5	
CREEK TO 714+10	MO. 13	LT	877	8.8	
TOTAL			2248	22.6	
PAY TOTAL			2248	23	

PERMANENT PAVEMENT MARKING					
STATION	LOCATION	SIDE	6" SOLID YELLOW CLASS 2 PAINT TYPE L BEADS (LF)	6" SOLID WHITE CLASS 2 PAINT TYPE L BEADS (LF)	REMARKS
698+81 TO 731+78	MO. 13	LT		825	3297' INTERMITTENT CENTERLINE
698+81 TO 711+00	MO. 13	LT		1219	SOLID EDGE LINE (EAST)
698+81 TO 714+10	MO. 13	LT	1529		SOLID EDGE LINE (WEST)
PAY TOTAL			1529	2044	

MGS GUARDRAIL				
STATION	LOCATION	SIDE	QUANTITY (LF)	REMARKS
705+59	MO. 13	LT	200	16 SECTIONS
705+15	MO. 13	RT	200	16 SECTIONS
TOTAL			400	
PAY TOTAL			400	

MGS BRIDGE APPROACH TRANSITION SECTION (SHORTENED CURB)				
STATION	LOCATION	SIDE	QUANTITY (EA)	REMARKS
705+21	MO. 13	LT	1	LENGTH = 37.5'
704+78	MO. 13	RT	1	LENGTH = 37.5'
PAY TOTAL			2	

TYPE A CRASHWORTHY END TERMINAL (MASH)				
STATION	LOCATION	SIDE	QUANTITY (EA)	REMARKS
707+59	MO. 13	LT	1	LENGTH = 50'
707+15	MO. 13	RT	1	LENGTH = 50'
PAY TOTAL			2	

CONTRACTOR FURNISHED SURVEYING & STAKING	
LUMP SUM	1

MOBILIZATION	
LUMP SUM	1



DATE PREPARED 12/1/2025	
ROUTE 13	STATE MO
DISTRICT SW	SHEET NO. 3
COUNTY POLK	
JOB NO. JSR0183	
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO. A26812	

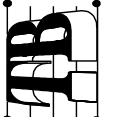
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MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

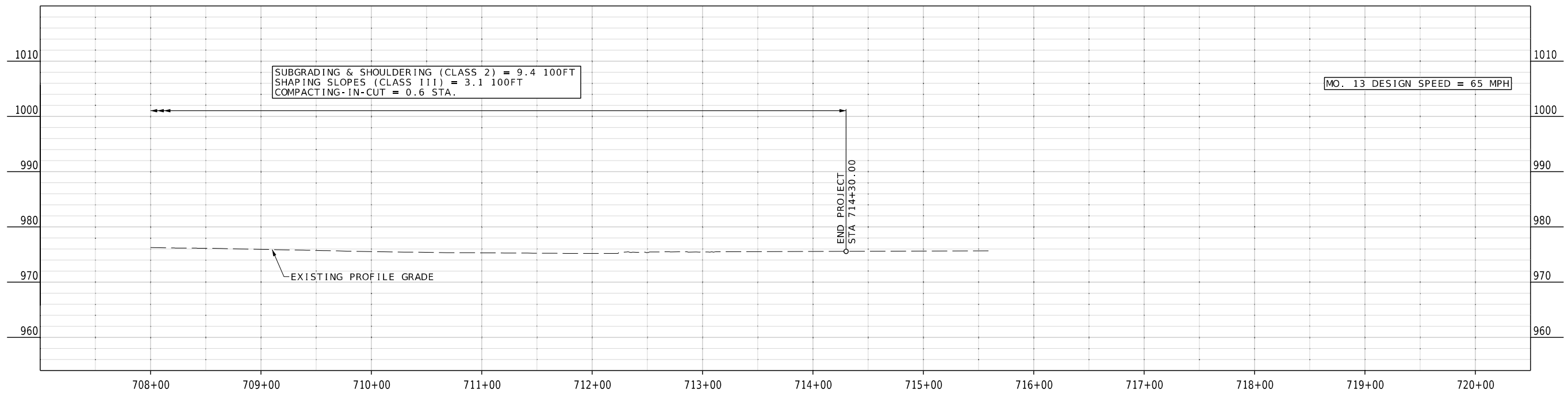
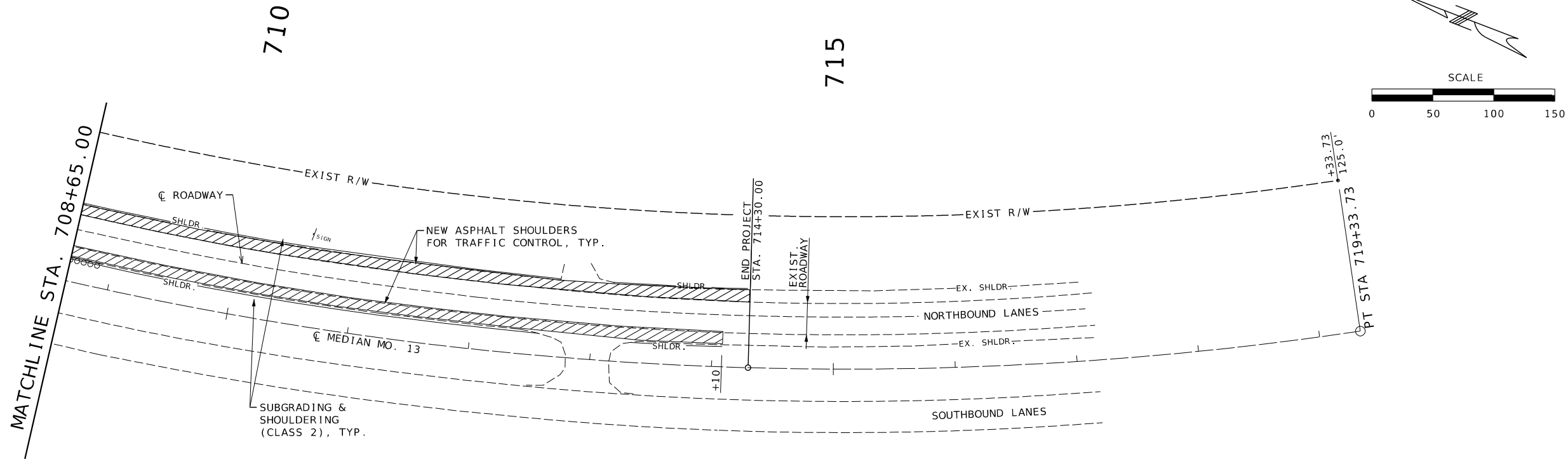


105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

Taliaferro & Browne, Inc.
Civil / Structural Engineering,
Landscape Architecture & Surveying
1020 E. 80th Street, Suite 101
Kansas City, MO 64106
PH (816) 283-3456 FAX (816) 283-0810
PROFESSIONAL ENGINEERING CORPORATION
MISSOURI LICENSE NO. 000466 KANSAS LICENSE NO. F-4181
PROFESSIONAL LAND SURVEYING CORPORATION
MISSOURI LICENSE NO. 000094



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PLAN-PROFILE
SHEET 2 OF 2



THIS SHEET HAS BEEN
SIGNED, SEALED AND DATED
ELECTRONICALLY.

DATE PREPARED
12/1/2025

ROUTE 13	STATE MO
DISTRICT SW	SHEET NO. 5

COUNTY
POLK

JOB NO.
JSR0183

CONTRACT ID.

PROJECT NO.

BRIDGE NO.
A26812

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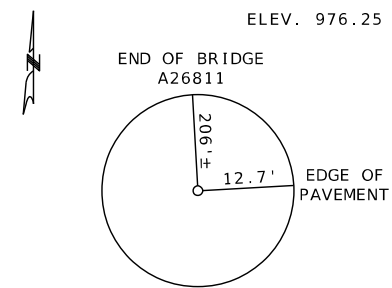
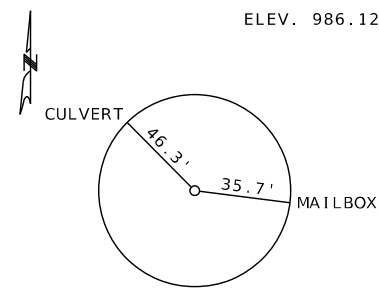
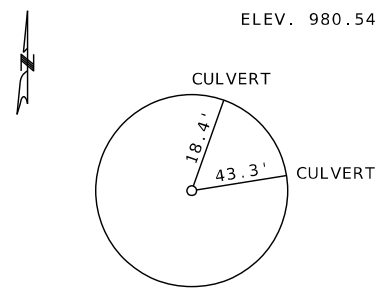
MISSOURI HIGHWAYS AND TRANSPORTATION
COMMISSION

MoDOT

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

VEENSTRA & KIMM INC.
A Kleinfelder Company

9788 N Ash Avenue
Kansas City, Missouri 64157
816-781-6182 816-781-0643 (FAX)
Certificate of Authority No. 2002006347



THIS SHEET HAS BEEN
SIGNED, SEALED AND DATED
ELECTRONICALLY.

DATE PREPARED

12/1/2025

ROUTE

13

STATE

MO

DISTRICT

DISTRICT

SHEET NO.

SHEET NO.

/ |

COUNTY

POLK

JOB NO.

JSR0183

CONTRACT ID.

PROJECT NO.

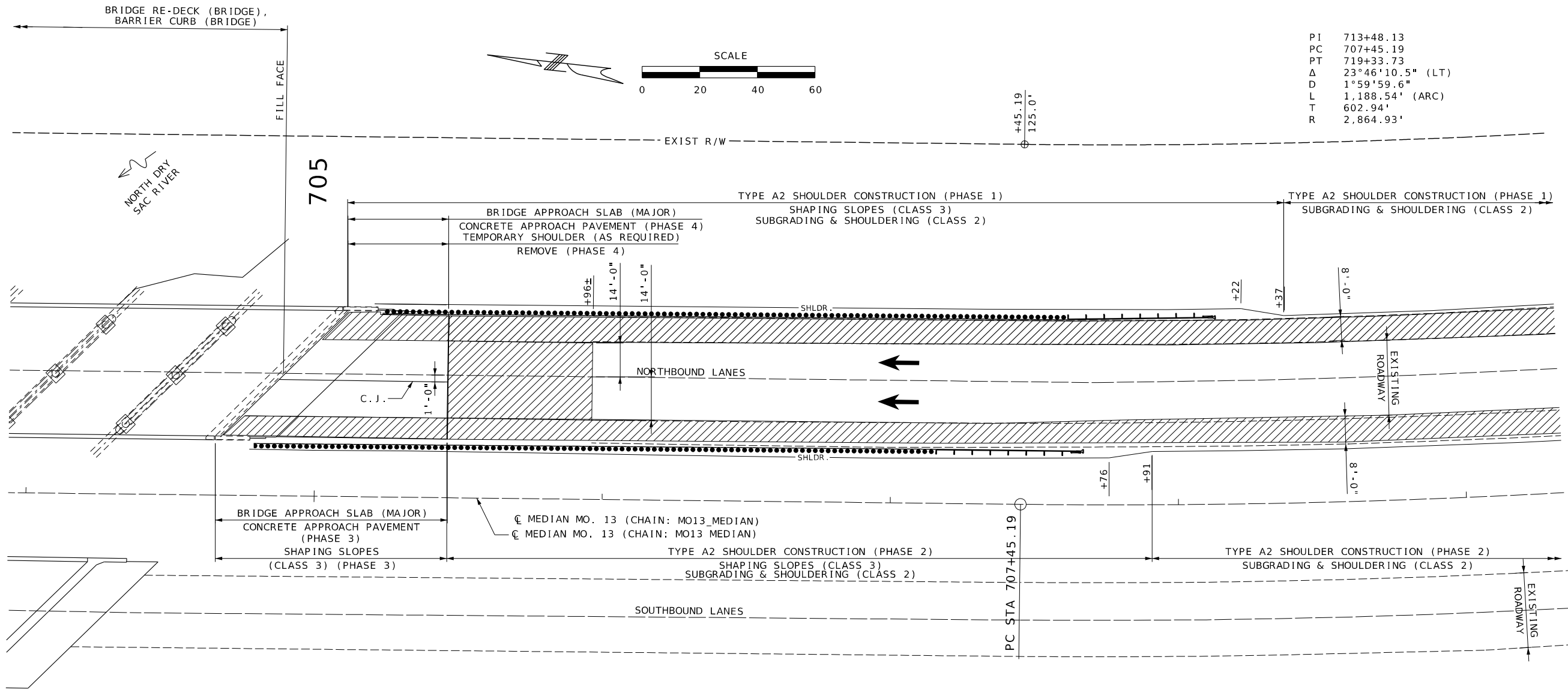
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DATE _____

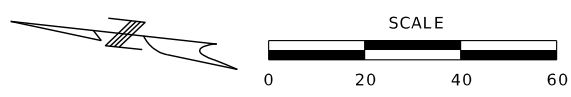
MISSOURI HIGHWAYS AND TRANSPORTATION
COMMISSION

VEENSTRA & KIMM INC.
A Kleinfelder Company

REFERENCE POINTS
SHEET 1 OF 1



PI 713+48.13
PC 707+45.19
PT 719+33.73
Δ 23°46'10.5" (LT)
D 1°59'59.6"
L 1,188.54' (ARC)
T 602.94'
R 2,864.93'



GUARDRAIL INSTALLATION (EACH SIDE):
1 EACH - MGS BRIDGE APPROACH TRANSITION (SHORTENED CURB) (37.5')
1 EACH - TYPE A CRASHWORTHY END TERMINAL (MASH 50.8')
16 EACH - MGS GUARDRAIL (200.00')



DATE PREPARED 12/1/2025	
ROUTE 13	STATE MO
DISTRICT SW	SHEET NO. 9
COUNTY POLK	
JOB NO. JSR0183	
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO. A26812	

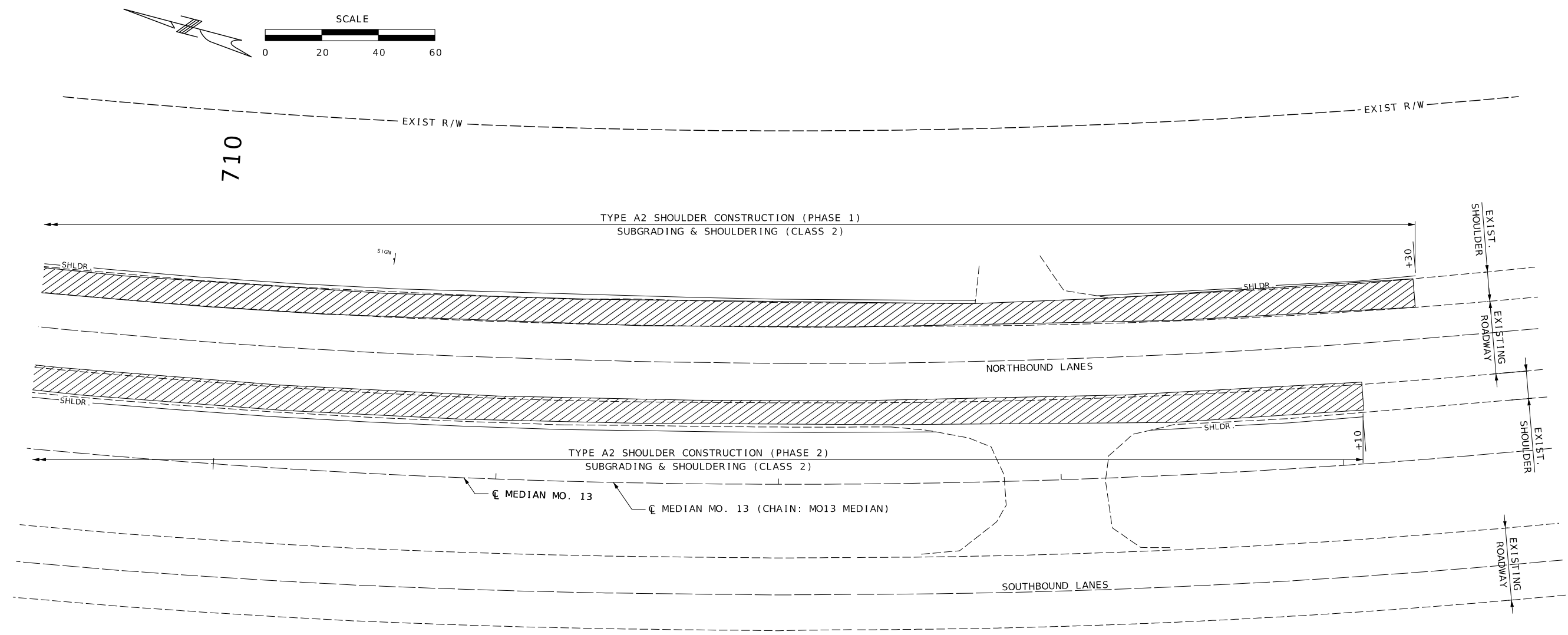
DESCRIPTION	DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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

Taliaferro & Browne, Inc.
Civil / Structural Engineering,
Landscape Architecture & Surveying
10201 E. 80TH STREET, SUITE 101
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PROFESSIONAL ENGINEERING CORPORATION
MISSOURI LICENSE NO. 000466 KANSAS LICENSE NO. F-481
PROFESSIONAL LAND SURVEYING CORPORATION
MISSOURI LICENSE NO. 000094

SPECIAL SHEETS
SHEET 2 OF 3



SPECIAL SHEETS
SHEET 3 OF 3



DATE PREPARED 12/1/2025	
ROUTE 13	STATE MO
DISTRICT SW	SHEET NO. 10
COUNTY POLK	
JOB NO. JSR0183	
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO. A26812	

DESCRIPTION	DATE

MISSOURI HIGHWAYS AND TRANSPORTATION
COMMISSION

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

Taliaferro & Browne, Inc.
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1020 E. 80th Street, Suite 100
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PH (816) 283-3456 FAX (816) 283-0810
PROFESSIONAL ENGINEERING CORPORATION
MISSOURI LICENSE NO. 000466 KANSAS LICENSE NO. F-4481
PROFESSIONAL LAND SURVEYING CORPORATION
MISSOURI LICENSE NO. 000094



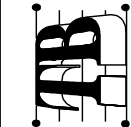
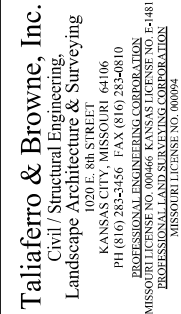
- CONSTRUCTION PHASING: NORTHBOUND LANES BRIDGE NO. A26812

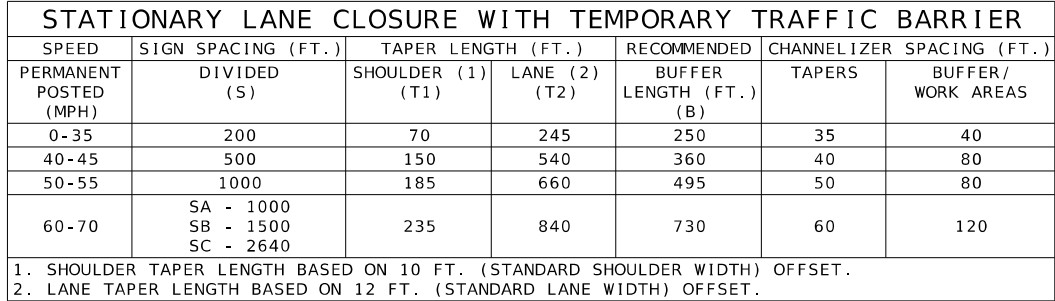
PHASE 1- CONSTRUCT NEW ROADWAY SHOULDERS ON EAST SIDE OF ROADWAY, SHOULDERS TO BE UTILIZED FOR TEMPORARY CONSTRUCTION TRAFFIC. USE STATIONARY LANE CLOSURE ON EAST SIDE OF ROADWAY, EPG FIGURE 616.8.335 (TA-335).



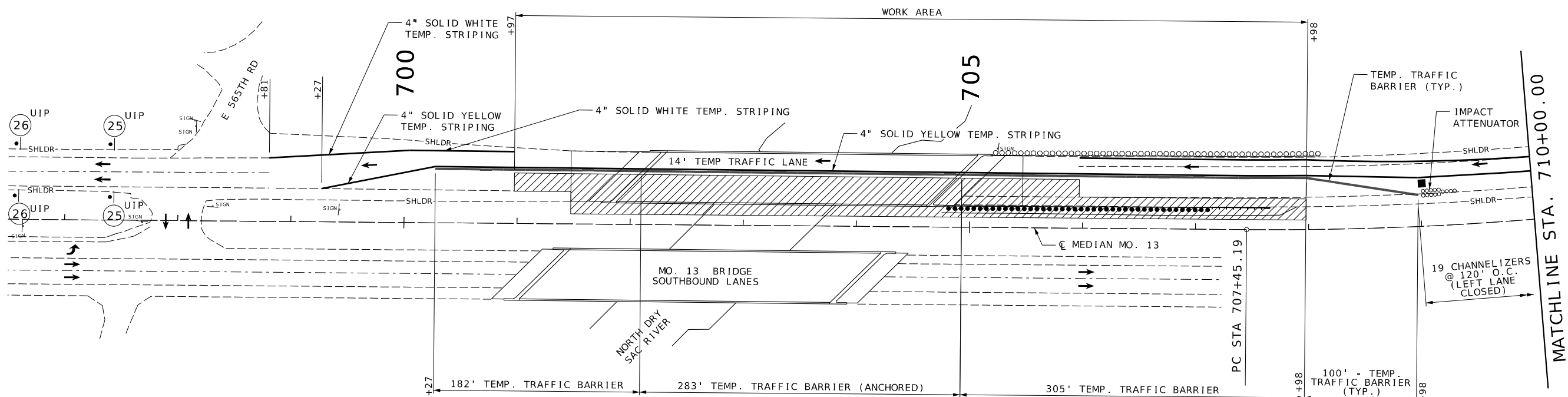
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PHASE 1
TRAFFIC CONTROL
SHEET 1 OF 11





	PROPOSED SIGN (SINGLE SIDED)		TEMPORARY CONCRETE TRAFFIC BARRIER (TYPE F)
	EXISTING SIGN (SINGLE SIDED)		IMPACT ATTENUATOR 65 MPH (SAND BARRELS)
	CHANNELIZER		VEHICLE WITH TRAILER MOUNTED ATTENUATOR
	DIRECTIONAL INDICATOR BARRICADE		CHANGEABLE MESSAGE BOARD
	TUBULAR MARKERS		FLASHING ARROW PANEL
	TYPE III MOVEABLE BARRICADE		TEMPORARY LONG-TERM RUMBLE STRIPS
	SEQUENTIAL FLASHING WARNING LIGHT		



PHASE 1- CONSTRUCT NEW ROADWAY SHOULDERS ON EAST SIDE OF ROADWAY.
SHOULDERS TO BE UTILIZED FOR TEMPORARY CONSTRUCTION TRAFFIC.
USE STATIONARY LANE CLOSURE ON EAST SIDE OF ROADWAY.
EPG FIGURE 616.8.335 (TA-335).

PHASE 2- CONSTRUCT NEW ROADWAY SHOULDERS ON WEST SIDE OF ROADWAY.
SHOULDERS TO BE UTILIZED FOR TEMPORARY CONSTRUCTION TRAFFIC.
USE STATIONARY LANE CLOSURE ON WEST SIDE OF ROADWAY.
EPG FIGURE 616.8.335 (TA-335).

PHASE 3- CONSTRUCT BRIDGE IMPROVEMENTS ON WEST SIDE OF BRIDGE.
USE STATIONARY LANE CLOSURE WITH TEMPORARY TRAFFIC BARRIER
ON WEST SIDE OF NORTHBOUND LANES.
EPG FIGURE 616.8.34B (TA-34B).

PHASE 4- CONSTRUCT BRIDGE IMPROVEMENTS ON EAST SIDE OF BRIDGE.
USE STATIONARY LANE CLOSURE WITH TEMPORARY TRAFFIC BARRIER
ON EAST SIDE OF NORTHBOUND LANES.
EPG FIGURE 616.8.34B (TA-34B).

PHASE 3
TRAFFIC CONTROL
SHEET 3 OF 11



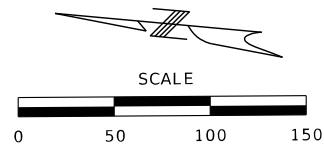
DATE PREPARED	
12/1/2025	
ROUTE	STATE
13	MO
DISTRICT	SHEET NO.
SW	13
COUNTY	
POLK	
JOB NO.	
JSR0183	
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	
A26812	

[illegible]MISSOURI HIGHWAYS AND TRANSPORTATION
COMMISSION

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

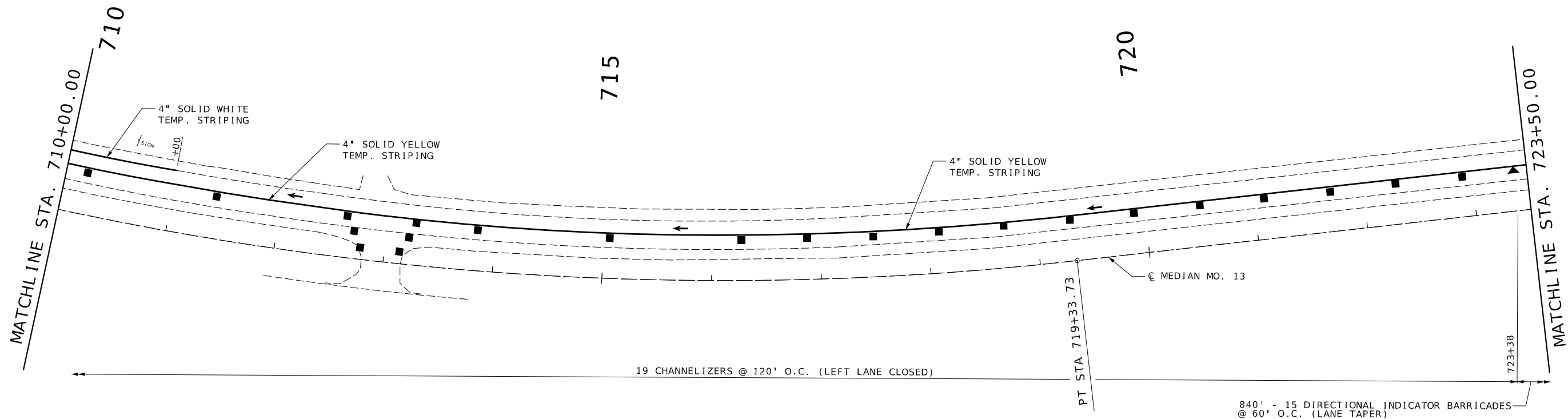
Taliaferro & Browne, Inc.
Civil / Structural Engineering,
Landscape Architecture & Surveying
1020 E. 8th STREET
KANSAS CITY, MISSOURI 64106
PH (816) 283-3456 FAX (816) 283-0810
PROFESSIONAL ENGINEERING CORPORATION
MISSOURI LICENSE NO. 000046 KANSAS LICENSE NO. E-1481
PROFESSIONAL LANDSCAPE ARCHITECT
MISSOURI LICENSE NO. 000094





TRAFFIC CONTROL LEGEND

- | | |
|-----------------------------------|---|
| PROPOSED SIGN (SINGLE SIDED) | TEMPORARY CONCRETE TRAFFIC BARRIER (TYPE F) |
| EXISTING SIGN (SINGLE SIDED) | IMPACT ATTENUATOR 65 MPH (SAND BARRELS) |
| CHANNELIZER | VEHICLE WITH TRAILER MOUNTED ATTENUATOR |
| DIRECTIONAL INDICATOR BARRICADE | CHANGEABLE MESSAGE BOARD |
| TUBULAR MARKERS | FLASHING ARROW PANEL |
| TYPE III MOVEABLE BARRICADE | TEMPORARY LONG-TERM RUMBLE STRIPS |
| SEQUENTIAL FLASHING WARNING LIGHT | |



CONSTRUCTION PHASING: NORTHBOUND LANES BRIDGE NO. A26812

- PHASE 1- CONSTRUCT NEW ROADWAY SHOULDERS ON EAST SIDE OF ROADWAY. SHOULDERS TO BE UTILIZED FOR TEMPORARY CONSTRUCTION TRAFFIC. USE STATIONARY LANE CLOSURE ON EAST SIDE OF ROADWAY. EPG FIGURE 616.8.33S (TA-33S).
- PHASE 2- CONSTRUCT NEW ROADWAY SHOULDERS ON WEST SIDE OF ROADWAY. SHOULDERS TO BE UTILIZED FOR TEMPORARY CONSTRUCTION TRAFFIC. USE STATIONARY LANE CLOSURE ON WEST SIDE OF ROADWAY. EPG FIGURE 616.8.33S (TA-33S).
- PHASE 3- CONSTRUCT BRIDGE IMPROVEMENTS ON WEST SIDE OF BRIDGE. USE STATIONARY LANE CLOSURE WITH TEMPORARY TRAFFIC BARRIER ON WEST SIDE OF NORTHBOUND LANES. EPG FIGURE 616.8.34B (TA-34B).
- PHASE 4- CONSTRUCT BRIDGE IMPROVEMENTS ON EAST SIDE OF BRIDGE. USE STATIONARY LANE CLOSURE WITH TEMPORARY TRAFFIC BARRIER ON EAST SIDE OF NORTHBOUND LANES. EPG FIGURE 616.8.34B (TA-34B).

PHASE 3 TRAFFIC CONTROL

PHASE 3
TRAFFIC CONTROL
SHEET 4 OF 11



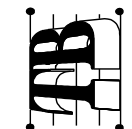
DATE PREPARED 12/1/2025	
ROUTE 13	STATE MO
DISTRICT SW	SHEET NO. 14
COUNTY POLK	
JOB NO. JSR0183	
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO. A26812	

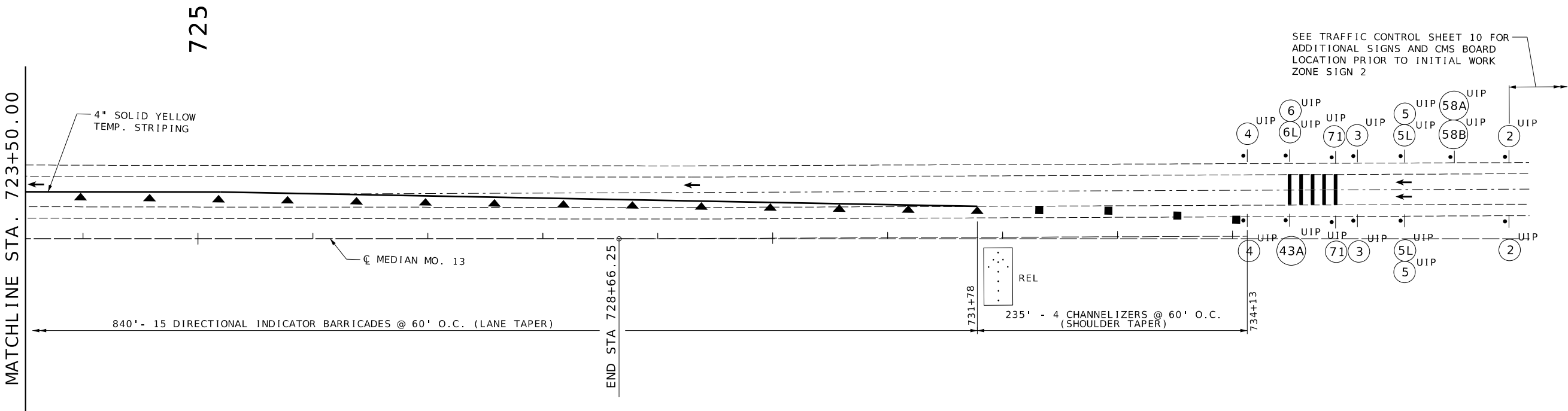
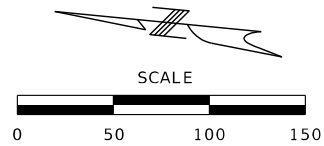
DESCRIPTION	DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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

Taliaferro & Browne, Inc.
Civil / Structural Engineering,
Landscape Architecture & Surveying
1020 E. 80th STREET, SUITE 101
KANSAS CITY, MO 64114
PH (816) 283-3456 FAX (816) 283-0810
PROFESSIONAL ENGINEERING CORPORATION
MISSOURI LICENSE NO. 000462 KANSAS LICENSE NO. F-1481
PROFESSIONAL LAND SURVEYING CORPORATION
MISSOURI LICENSE NO. 000094





CONSTRUCTION PHASING: NORTHBOUND LANES BRIDGE NO. A26812

- PHASE 1- CONSTRUCT NEW ROADWAY SHOULDERS ON EAST SIDE OF ROADWAY. SHOULDERS TO BE UTILIZED FOR TEMPORARY CONSTRUCTION TRAFFIC. USE STATIONARY LANE CLOSURE ON EAST SIDE OF ROADWAY. EPG FIGURE 616.8.33S (TA-33S).
- PHASE 2- CONSTRUCT NEW ROADWAY SHOULDERS ON WEST SIDE OF ROADWAY. SHOULDERS TO BE UTILIZED FOR TEMPORARY CONSTRUCTION TRAFFIC. USE STATIONARY LANE CLOSURE ON WEST SIDE OF ROADWAY. EPG FIGURE 616.8.33S (TA-33S).
- PHASE 3- CONSTRUCT BRIDGE IMPROVEMENTS ON WEST SIDE OF BRIDGE. USE STATIONARY LANE CLOSURE WITH TEMPORARY TRAFFIC BARRIER ON WEST SIDE OF NORTHBOUND LANES. EPG FIGURE 616.8.34B (TA-34B).
- PHASE 4- CONSTRUCT BRIDGE IMPROVEMENTS ON EAST SIDE OF BRIDGE. USE STATIONARY LANE CLOSURE WITH TEMPORARY TRAFFIC BARRIER ON EAST SIDE OF NORTHBOUND LANES. EPG FIGURE 616.8.34B (TA-34B).

PHASE 3 TRAFFIC CONTROL

PHASE 3
TRAFFIC CONTROL
SHEET 5 OF 11

TRAFFIC CONTROL LEGEND

- PROPOSED SIGN (SINGLE SIDED)
- EXISTING SIGN (SINGLE SIDED)
- CHANNELIZER
- DIRECTIONAL INDICATOR BARRICADE
- TUBULAR MARKERS
- TYPE III MOVEABLE BARRICADE
- SEQUENTIAL FLASHING WARNING LIGHT
- TEMPORARY CONCRETE TRAFFIC BARRIER (TYPE F)
- IMPACT ATTENUATOR 65 MPH (SAND BARRELS)
- VEHICLE WITH TRAILER MOUNTED ATTENUATOR
- CHANGEABLE MESSAGE BOARD
- FLASHING ARROW PANEL
- TEMPORARY LONG-TERM RUMBLE STRIPS



DATE PREPARED 12/1/2025	
ROUTE 13	STATE MO
DISTRICT SW	SHEET NO. 15
COUNTY POLK	
JOB NO. JSR0183	
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO. A26812	

DESCRIPTION	DATE

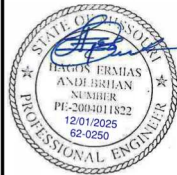
MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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

Taliaferro & Browne, Inc.

Civil/Structural Engineering,
Landscape Architecture & Surveying

1020 E. 80th STREET, #1
KANSAS CITY, MO 64116
PH (816) 283-3456 FAX (816) 283-0810
PROFESSIONAL ENGINEERING CORPORATION
MISSOURI LICENSE NO. 000462 KANSAS LICENSE NO. F-1481
PROFESSIONAL LAND SURVEYING CORPORATION
MISSOURI LICENSE NO. 000094



DATE PREPARED 12/1/2025	
ROUTE 13	STATE MO
DISTRICT SW	SHEET NO. 16
COUNTY POLK	
JOB NO. JSR0183	
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO. A26812	

DATE	DESCRIPTION

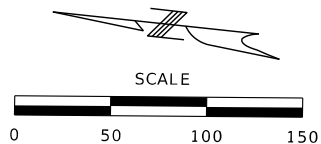
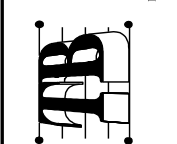
MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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

Taliaferro & Browne, Inc.
Civil/Structural Engineering,
Landscape Architecture & Surveying

1020 E. 80th Street, Suite 101
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PH (816) 283-3456 FAX (816) 283-0810
PROFESSIONAL ENGINEERING CORPORATION
MISSOURI LICENSE NO. 000469 KANSAS LICENSE NO. F-4481
PROFESSIONAL LAND SURVEYING CORPORATION
MISSOURI LICENSE NO. 000094

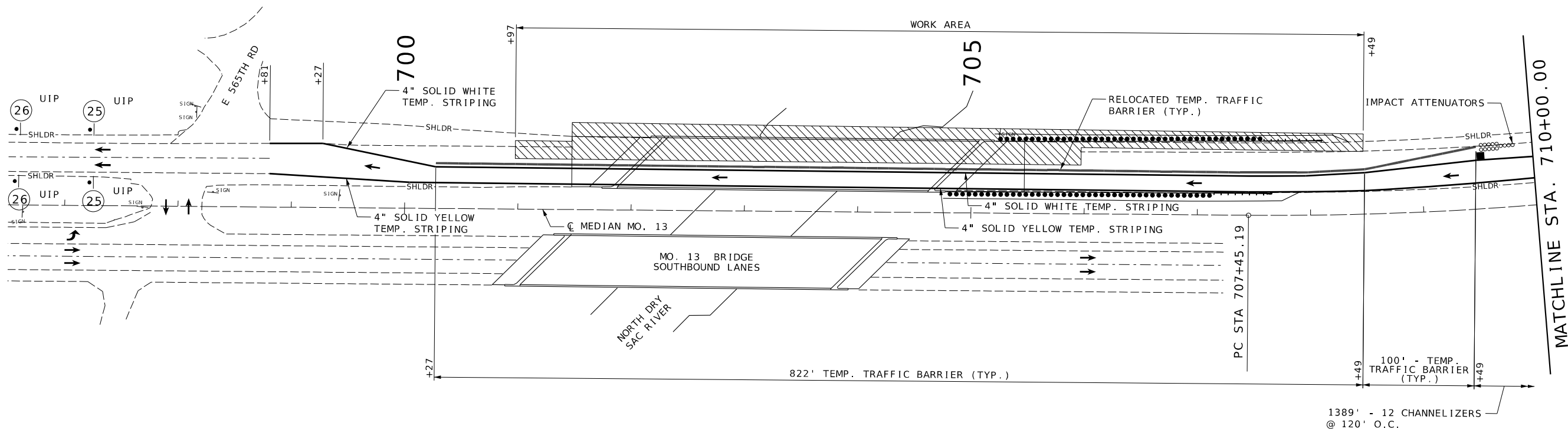


STATIONARY LANE CLOSURE WITH TEMPORARY TRAFFIC BARRIER						
SPEED	SIGN SPACING (FT.)	TAPER LENGTH (FT.)		RECOMMENDED	CHANNELIZER SPACING (FT.)	
PERMANENT POSTED (MPH)	DIVIDED (S)	SHOULDER (1) (T1)	LANE (2) (T2)	BUFFER LENGTH (FT.) (B)	TAPERS	BUFFER/WORK AREAS
0-35	200	70	245	250	35	40
40-45	500	150	540	360	40	80
50-55	1000	185	660	495	50	80
60-70	SA - 1000 SB - 1500 SC - 2640	235	840	730	60	120

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

PROPOSED SIGN (SINGLE SIDED)	TEMPORARY CONCRETE TRAFFIC BARRIER (TYPE F)
EXISTING SIGN (SINGLE SIDED)	IMPACT ATTENUATOR 65 MPH (SAND BARRELS)
CHANNELIZER	VEHICLE WITH TRAILER MOUNTED ATTENUATOR
DIRECTIONAL INDICATOR BARRICADE	CHANGEABLE MESSAGE BOARD
TUBULAR MARKERS	FLASHING ARROW PANEL
TYPE III MOVEABLE BARRICADE	TEMPORARY LONG-TERM RUMBLE STRIPS
SEQUENTIAL FLASHING WARNING LIGHT	

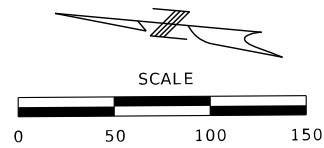


CONSTRUCTION PHASING: NORTHBOUND LANES BRIDGE NO. A26812

- PHASE 1- CONSTRUCT NEW ROADWAY SHOULDERS ON EAST SIDE OF ROADWAY. SHOULDERS TO BE UTILIZED FOR TEMPORARY CONSTRUCTION TRAFFIC. USE STATIONARY LANE CLOSURE ON EAST SIDE OF ROADWAY. EPG FIGURE 616.8.33S (TA-33S).
- PHASE 2- CONSTRUCT NEW ROADWAY SHOULDERS ON WEST SIDE OF ROADWAY. SHOULDERS TO BE UTILIZED FOR TEMPORARY CONSTRUCTION TRAFFIC. USE STATIONARY LANE CLOSURE ON WEST SIDE OF ROADWAY. EPG FIGURE 616.8.33S (TA-33S).
- PHASE 3- CONSTRUCT BRIDGE IMPROVEMENTS ON WEST SIDE OF BRIDGE. USE STATIONARY LANE CLOSURE WITH TEMPORARY TRAFFIC BARRIER ON WEST SIDE OF NORTHBOUND LANES. EPG FIGURE 616.8.34B (TA-34B).
- PHASE 4- CONSTRUCT BRIDGE IMPROVEMENTS ON EAST SIDE OF BRIDGE. USE STATIONARY LANE CLOSURE WITH TEMPORARY TRAFFIC BARRIER ON EAST SIDE OF NORTHBOUND LANES. EPG FIGURE 616.8.34B (TA-34B).

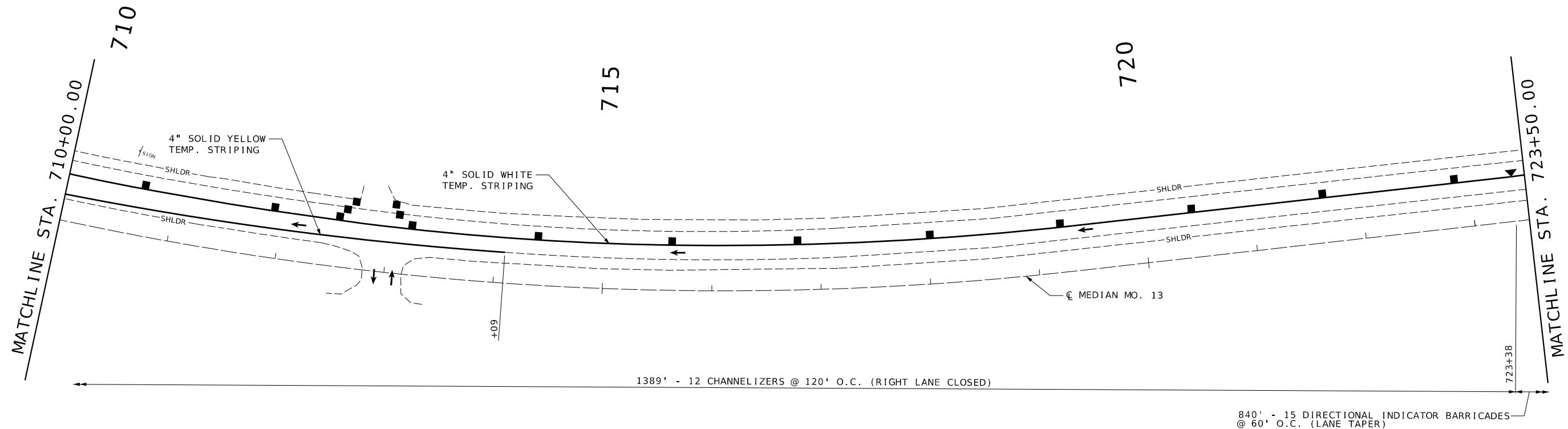
PHASE 4 TRAFFIC CONTROL

NOTE:
PHASE 4 TEMPORARY TRAFFIC BARRIER IS NON-ANCHORED.



TRAFFIC CONTROL LEGEND

- | | |
|-------------------------------------|--|
| • PROPOSED SIGN (SINGLE SIDED) | ■ TEMPORARY CONCRETE TRAFFIC BARRIER (TYPE F) |
| ○ EXISTING SIGN (SINGLE SIDED) | ○○○○○○○○ IMPACT ATTENUATOR 65 MPH (SAND BARRELS) |
| ■ CHANNELIZER | ☐ VEHICLE WITH TRAILER MOUNTED ATTENUATOR |
| ▼ DIRECTIONAL INDICATOR BARRICADE | ☐ CHANGEABLE MESSAGE BOARD |
| ◆ TUBULAR MARKERS | ☐ FLASHING ARROW PANEL |
| E TYPE III MOVEABLE BARRICADE | ▬ TEMPORARY LONG-TERM RUMBLE STRIPS |
| ⬢ SEQUENTIAL FLASHING WARNING LIGHT | |



CONSTRUCTION PHASING: NORTHBOUND LANES BRIDGE NO. A26812

- PHASE 1- CONSTRUCT NEW ROADWAY SHOULDERS ON EAST SIDE OF ROADWAY. SHOULDERS TO BE UTILIZED FOR TEMPORARY CONSTRUCTION TRAFFIC. USE STATIONARY LANE CLOSURE ON EAST SIDE OF ROADWAY. EPG FIGURE 616.8.33S (TA-33S).
- PHASE 2- CONSTRUCT NEW ROADWAY SHOULDERS ON WEST SIDE OF ROADWAY. SHOULDERS TO BE UTILIZED FOR TEMPORARY CONSTRUCTION TRAFFIC. USE STATIONARY LANE CLOSURE ON WEST SIDE OF ROADWAY. EPG FIGURE 616.8.33S (TA-33S).
- PHASE 3- CONSTRUCT BRIDGE IMPROVEMENTS ON WEST SIDE OF BRIDGE. USE STATIONARY LANE CLOSURE WITH TEMPORARY TRAFFIC BARRIER ON WEST SIDE OF NORTHBOUND LANES. EPG FIGURE 616.8.34B (TA-34B).
- PHASE 4- CONSTRUCT BRIDGE IMPROVEMENTS ON EAST SIDE OF BRIDGE. USE STATIONARY LANE CLOSURE WITH TEMPORARY TRAFFIC BARRIER ON EAST SIDE OF NORTHBOUND LANES. EPG FIGURE 616.8.34B (TA-34B).

PHASE 4 TRAFFIC CONTROL

PHASE 4
TRAFFIC CONTROL
SHEET 7 OF 11



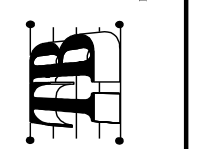
DATE PREPARED 12/1/2025	
ROUTE 13	STATE MO
DISTRICT SW	SHEET NO. 17
COUNTY POLK	
JOB NO. JSR0183	
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO. A26812	

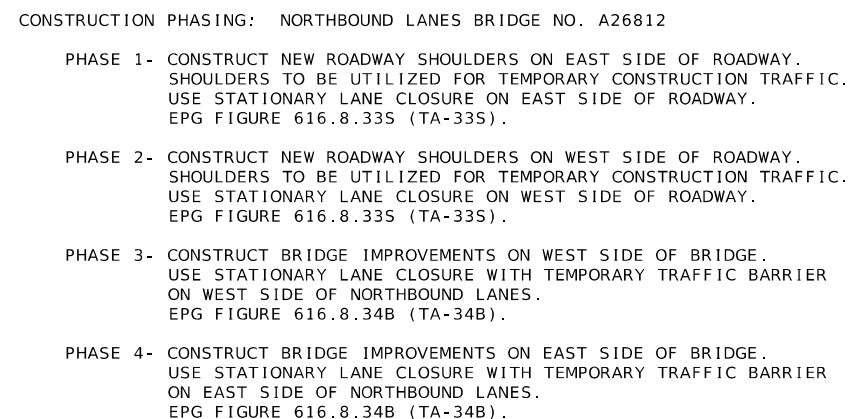
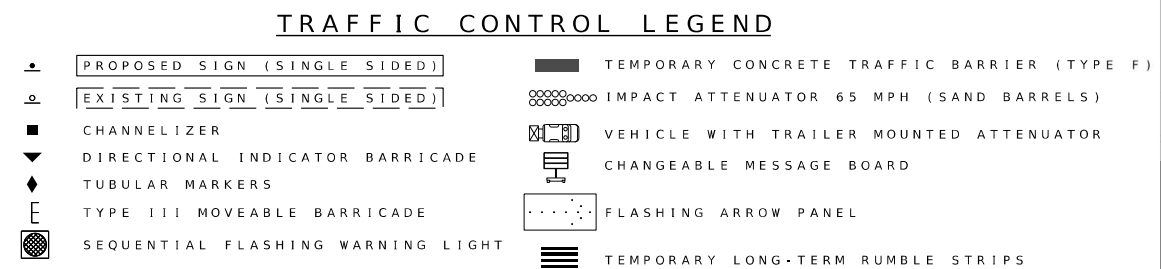
DESCRIPTION	DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

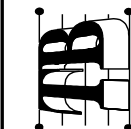
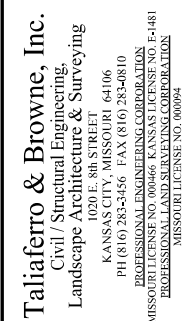
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

Taliaferro & Browne, Inc.
Civil / Structural Engineering,
Landscape Architecture & Surveying
1020 E. 80th Street, Suite 101
Kansas City, MO 64114
PH (816) 283-3456 FAX (816) 283-0810
PROFESSIONAL ENGINEERING CORPORATION
MISSOURI LICENSE NO. 000466 KANSAS LICENSE NO. F-481
PROFESSIONAL LAND SURVEYING CORPORATION
MISSOURI LICENSE NO. 000094





PHASE 4
TRAFFIC CONTROL
SHEET 8 OF 11



Bridge Improvements

Fall 2026

MoDOT

B	r	i	d	g	e						
9.875	17.750	22.750	26.000	32.625	39.125						
I	m	r	o	e	m	e	n	t	s		
9.875	14.000	24.000	30.625	35.000	41.000	47.625	54.250	63.750	70.375	76.750	81.625
9.875	42.750	47.000	52.375	55.250	62.125	67.375	72.625	77.875			

Technical drawing of a rectangular plate. The plate has a total width of 60 and a total height of 80. The top edge is labeled "Completed as Promised". The dimensions are as follows:

- Top edge: 20 (left), 20 (right)
- Left edge: 1.5 (top), 1.5 (bottom)
- Right edge: 1.5 (top), 1.5 (bottom)
- Bottom edge: 1.5 (left), 1.5 (right)
- Internal dimensions: 25 (left), 2.5 (top), 5.125 (center), 2.5 (bottom), 21.875 (right)

C	o	m	p	i	e	t	e	d	a	s
1,500	4,875	7,875	12,375	15,375	16,625	19,375	21,500	24,250	29,000	31,875

P	r	o	m	i	s	e	d
36,625	39,875	41,875	44,875	49,500	50,750	53,500	56,250

A diamond-shaped warning sign with a black border and the text "BRIDGE WORK AHEAD" in black capital letters.

ROAD WORK
NEXT 2 MILES

1

②

A white rectangular speed limit sign with a black border. The words "SPEED LIMIT" are at the top in black, and the number "55" is in the center in large black font.

3

**SPEED
LIMIT
55**

4

A white diamond-shaped sign with a black border. The text "RIGHT LANE" is on the top line, "CLOSED" is on the second line, and "AHEAD" is on the third line, all in black capital letters.

5

LEFT LANE

5L

A white rectangular sign with a black border. The text "RIGHT LANE CLOSED" is written in bold, black, sans-serif capital letters, arranged in three lines: "RIGHT", "LANE", and "CLOSED".

⑥

LEFT

6L

**SPEED
LIMIT
65**

25

**ROAD
CLOSED**

OPTIONAL LOCATION.
SEE EPG 616.8.8A (TA-8a)

**ROAD
CLOSED**

TYPE III
MOVEABLE BARRICADE

**END
ROAD WORK**

26

MERGE

(43)

43A



WET
PAINT
↓

GO22-1
(ARROW PIVOTS)

62

WORK ZONE
NO PHONE
ZONE

70

RUMBLE STRIPS AHEAD

(71)

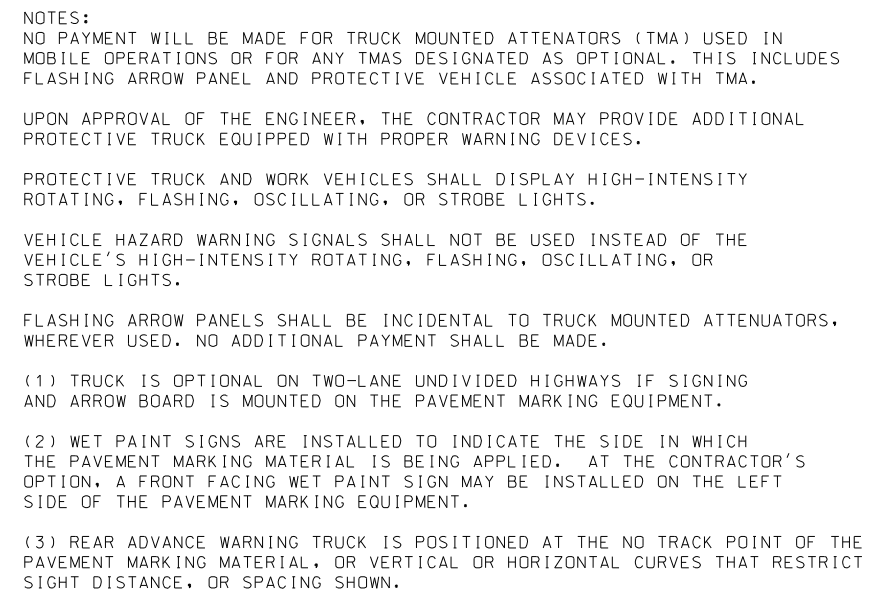
STATE OF MISSOURI
JASON F. MASIAS
AND BRYAN
NUMBER
PE-2004011822
12/01/2025
62-0250
PROFESSIONAL ENGINEER

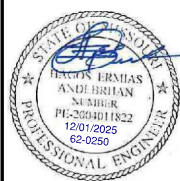
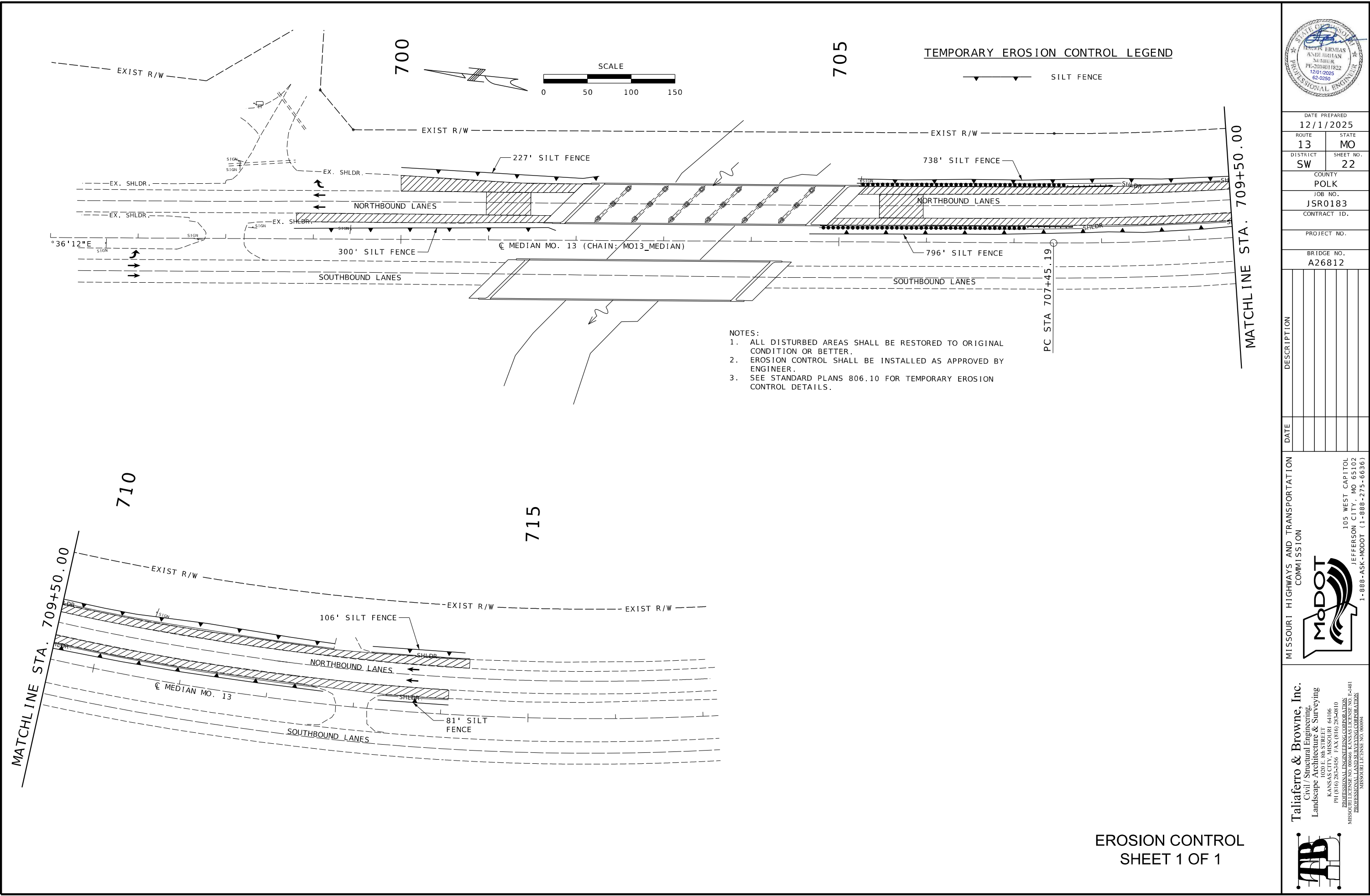
A26812

MISSOURI HIGHWAYS AND TRANSPORTATION
COMMISSION

The logo for the Missouri Department of Transportation (MoDOT) is located in the top right corner. It features the text "MISSOURI HIGHWAYS AUTHORITY" and "COMMISSION" in a vertical stack on the left. To the right is the MoDOT emblem, which consists of a stylized outline of the state of Missouri. Inside the outline, the word "MoDOT" is written in a large, bold, sans-serif font. Above the state outline, the word "JEF" is printed. To the right of "JEF", the text "1 888 ASK MO" is partially visible.

Taliaferro & Browne, Inc.
Civil / Structural Engineering,
Landscape Architecture & Surveying
1020 E. 9th STREET
KANSAS CITY, MISSOURI 64106
PH (816) 283-2456 FAX (816) 283-0810
PROFESSIONAL ENGINEERING CORPORATION
MISSOURI LICENSE NO. 000466 KANSAS LICENSE NO. F-1481
PROFESSIONAL LANDSCAPE ARCHITECT
MISSOURI LICENSE NO. 000049





DATE PREPARED 12/1/2025	
ROUTE 13	STATE MO
DISTRICT SW	SHEET NO. 22
COUNTY POLK	
JOB NO. JSR0183	
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO. A26812	

DESCRIPTION	DATE

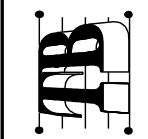
MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

MoDOT

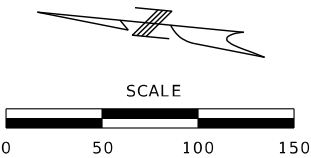
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

Taliaferro & Browne, Inc.
Civil / Structural Engineering,
Landscape Architecture & Surveying

1020 E. 80th Street, Suite 101
Kansas City, MO 64114
PH (816) 283-3456 FAX (816) 283-0810
PROFESSIONAL ENGINEERING CORPORATION
MISSOURI LICENSE NO. 000462 KANSAS LICENSE NO. F-481
PROFESSIONAL LAND SURVEYING CORPORATION
MISSOURI LICENSE NO. 000094



EROSION CONTROL
SHEET 1 OF 1



SIGNING LEGEND

- EXISTING SIGN (SINGLE SIDED)
- PROPOSED SIGN (SINGLE SIDED)

(REM) - "REMOVE"
(UIP) - "USE IN PLACE"

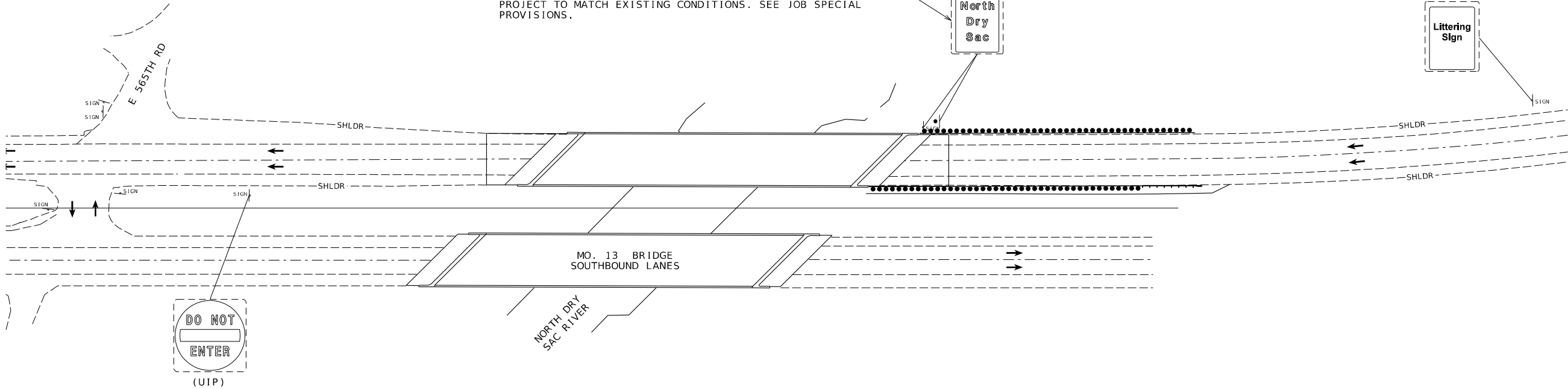
REMOVE, RELOCATE SIGN, POST & FOOTING ONLY AS NECESSARY.
IF REMOVED, STORE OFF SITE UNTIL RELOCATED AT END OF
PROJECT TO MATCH EXISTING CONDITIONS. SEE JOB SPECIAL
PROVISIONS.

REM / REL

North
Dry
Sac

(UIP)

Littering
Sign



SIGNING
SHEET 1 OF 1



THIS SHEET HAS BEEN
SIGNED, SEALED AND DATED
ELECTRONICALLY.

DATE PREPARED
12/1/2025

ROUTE 13 STATE MO

DISTRICT SW SHEET NO. 23

COUNTY POLK

JOB NO. JSR0183

CONTRACT ID.

PROJECT NO.

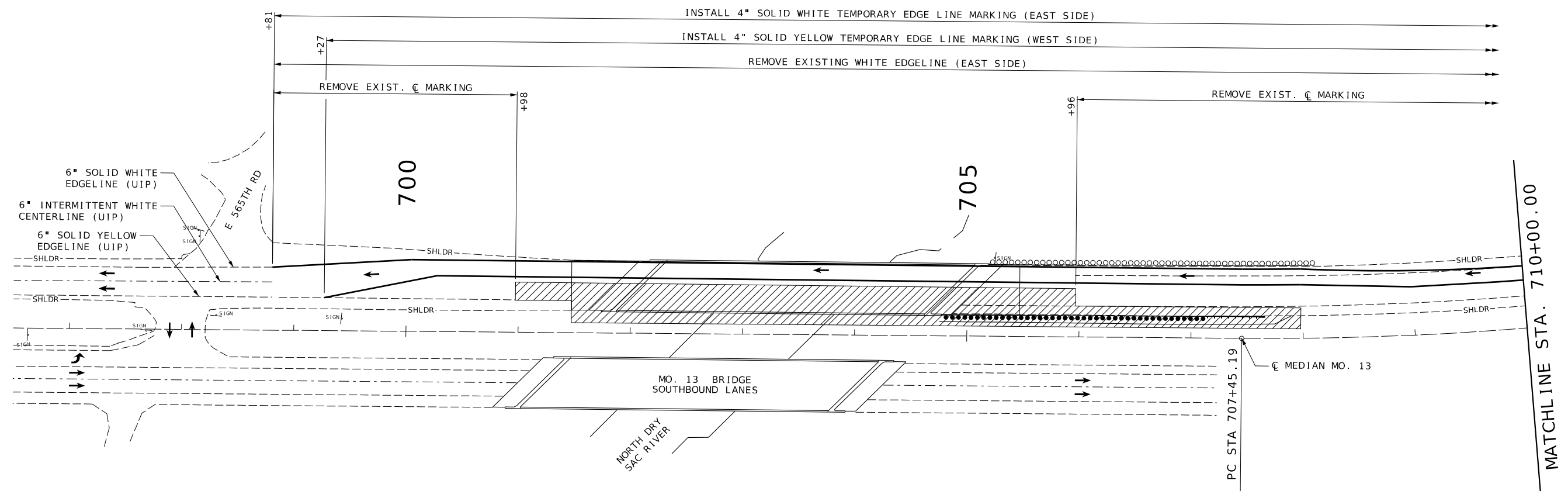
BRIDGE NO. A26812

DESCRIPTION	DATE

MISSOURI HIGHWAYS AND TRANSPORTATION
COMMISSION

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

VEENSTRA & KIMM INC.
A Kleinfelder Company
9788 N Ash Avenue
Kansas City, Missouri 64157
816-781-6182 816-781-0643 (FAX)
Certificate of Authority No. 2002006347

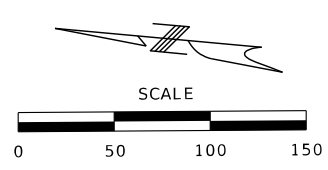
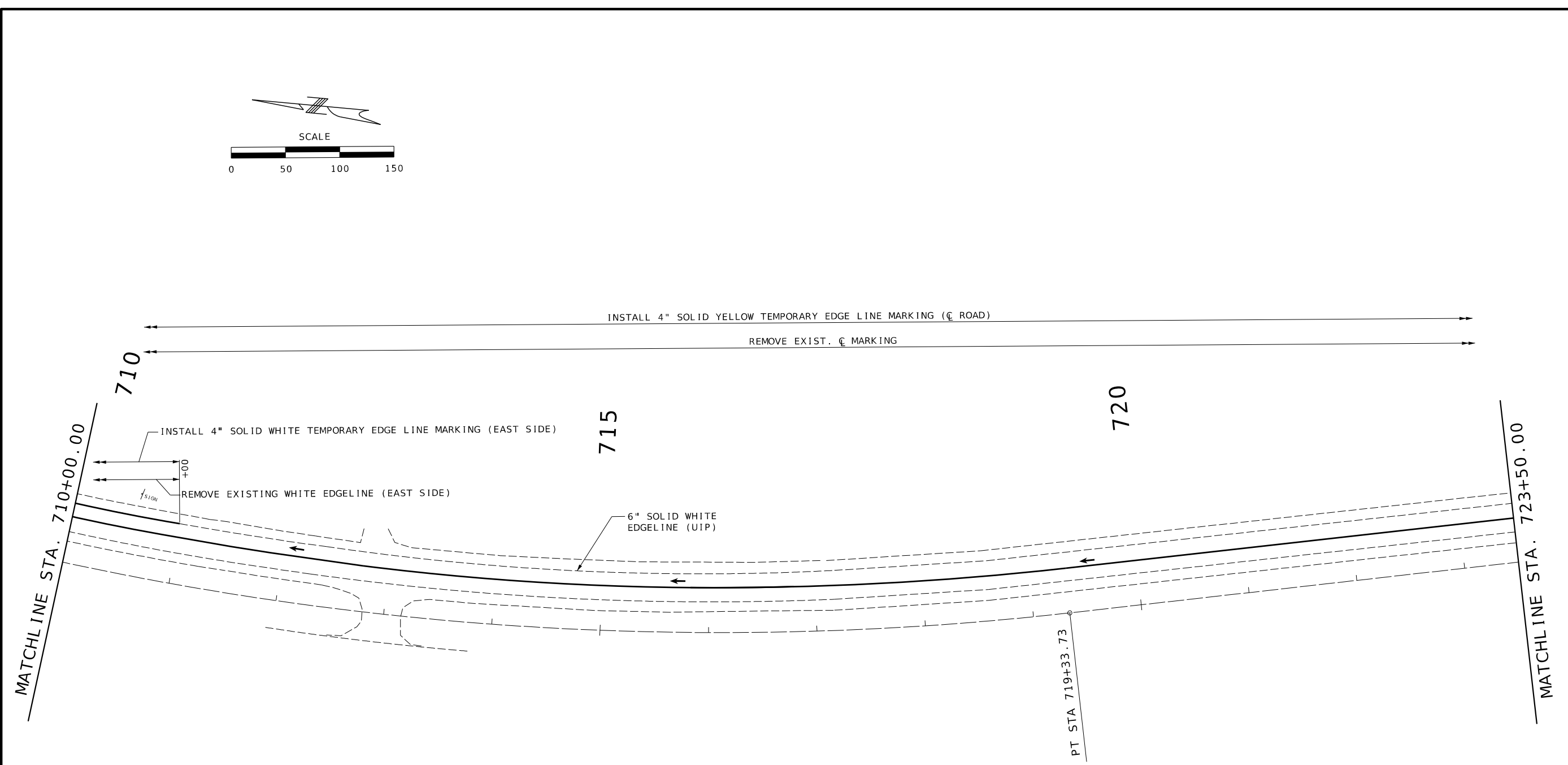


PHASE 1- CONSTRUCT NEW ROADWAY SHOULDERS ON EAST SIDE OF ROADWAY. SHOULDERS TO BE UTILIZED FOR TEMPORARY CONSTRUCTION TRAFFIC. USE STATIONARY LANE CLOSURE ON EAST SIDE OF ROADWAY.

PHASE 2- CONSTRUCT NEW ROADWAY SHOULDERS ON WEST SIDE OF ROADWAY. SHOULDERS TO BE UTILIZED FOR TEMPORARY CONSTRUCTION TRAFFIC. USE STATIONARY LANE CLOSURE ON WEST SIDE OF ROADWAY.

PHASE 3- CONSTRUCT BRIDGE IMPROVEMENTS ON WEST SIDE OF BRIDGE. USE STATIONARY LANE CLOSURE WITH TEMPORARY TRAFFIC BARRIER ON WEST SIDE OF NORTHBOUND LANES.

PHASE 4- CONSTRUCT BRIDGE IMPROVEMENTS ON EAST SIDE OF BRIDGE. USE STATIONARY LANE CLOSURE WITH TEMPORARY TRAFFIC BARRIER ON EAST SIDE OF NORTHBOUND LANES.



- CONSTRUCTION PHASING: NORTHBOUND LANES BRIDGE NO. A26812
- PHASE 1- CONSTRUCT NEW ROADWAY SOULDERS ON EAST SIDE OF ROADWAY. SHOULDERS TO BE UTILIZED FOR TEMPORARY CONSTRUCTION TRAFFIC. USE STATIONARY LANE CLOSURE ON EAST SIDE OF ROADWAY.
 - PHASE 2- CONSTRUCT NEW ROADWAY SOULDERS ON WEST SIDE OF ROADWAY. SHOULDERS TO BE UTILIZED FOR TEMPORARY CONSTRUCTION TRAFFIC. USE STATIONARY LANE CLOSURE ON WEST SIDE OF ROADWAY.
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 - PHASE 4- CONSTRUCT BRIDGE IMPROVEMENTS ON EAST SIDE OF BRIDGE. USE STATIONARY LANE CLOSURE WITH TEMPORARY TRAFFIC BARRIER ON EAST SIDE OF NORTHBOUND LANES.

PHASE 3 - TEMPORARY
PAVEMENT MARKING
SHEET 2 OF 7



THIS SHEET HAS BEEN
SIGNED, SEALED AND DATED
ELECTRONICALLY.

DATE PREPARED 12/1/2025	
ROUTE 13	STATE MO
DISTRICT SW	SHEET NO. 25
COUNTY POLK	
JOB NO. JSR0183	
CONTRACT ID.	

PROJECT NO.
BRIDGE NO. A26812

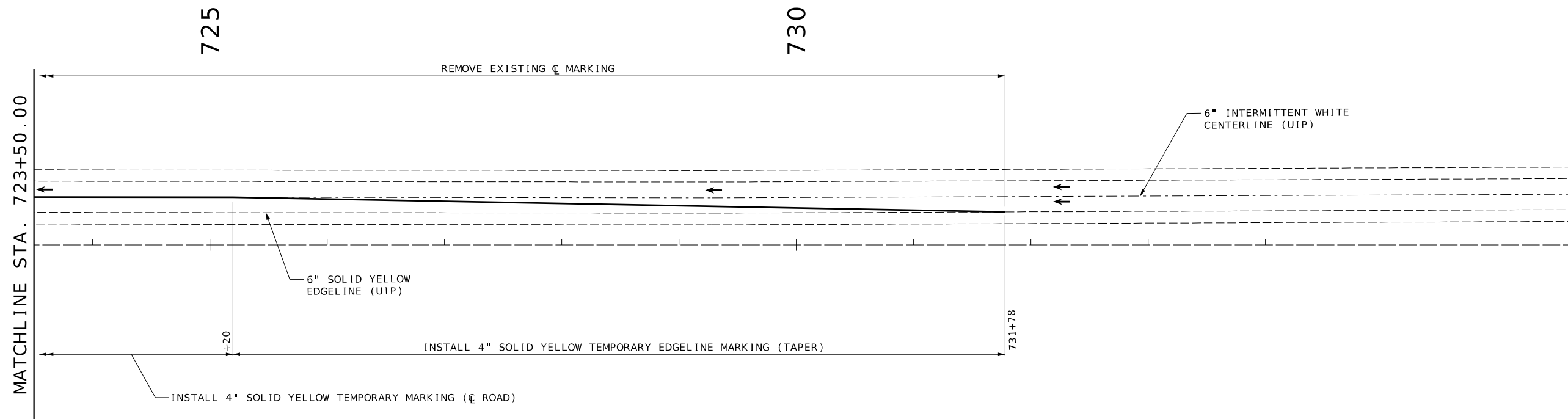
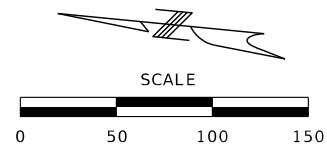
DESCRIPTION	DATE

MISSOURI HIGHWAYS AND TRANSPORTATION
COMMISSION

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

VEENSTRA & KIMM INC.
A Kleinfelder Company

9788 N Ash Avenue
Kansas City, Missouri 64157
816-781-6182 816-781-0643 (FAX)
Certificate of Authority No. 2002006347



- CONSTRUCTION PHASING: NORTHBOUND LANES BRIDGE NO. A26812
- PHASE 1- CONSTRUCT NEW ROADWAY SOULDERS ON EAST SIDE OF ROADWAY. SHOULDERS TO BE UTILIZED FOR TEMPORARY CONSTRUCTION TRAFFIC. USE STATIONARY LANE CLOSURE ON EAST SIDE OF ROADWAY.
- PHASE 2- CONSTRUCT NEW ROADWAY SOULDERS ON WEST SIDE OF ROADWAY. SHOULDERS TO BE UTILIZED FOR TEMPORARY CONSTRUCTION TRAFFIC. USE STATIONARY LANE CLOSURE ON WEST SIDE OF ROADWAY.
- PHASE 3- CONSTRUCT BRIDGE IMPROVEMENTS ON WEST SIDE OF BRIDGE. USE STATIONARY LANE CLOSURE WITH TEMPORARY TRAFFIC BARRIER ON WEST SIDE OF NORTHBOUND LANES.
- PHASE 4- CONSTRUCT BRIDGE IMPROVEMENTS ON EAST SIDE OF BRIDGE. USE STATIONARY LANE CLOSURE WITH TEMPORARY TRAFFIC BARRIER ON EAST SIDE OF NORTHBOUND LANES.

PHASE 3 - TEMPORARY
PAVEMENT MARKING
SHEET 3 OF 7



THIS SHEET HAS BEEN
SIGNED, SEALED AND DATED
ELECTRONICALLY.

DATE PREPARED
12/1/2025

ROUTE 13 STATE MO

DISTRICT SW SHEET NO. 26

COUNTY
POLK

JOB NO.
JSR0183

CONTRACT ID.

PROJECT NO.

BRIDGE NO.
A26812

DESCRIPTION	DATE

MISSOURI HIGHWAYS AND TRANSPORTATION
COMMISSION

MoDOT

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

VEENSTRA & KIMM INC.

A Kleinfelder Company

9788 N Ash Avenue
Kansas City, Missouri 64157
816-781-6182 816-781-0643 (FAX)
Certificate of Authority No. 2002006347



THIS SHEET HAS BEEN
SIGNED, SEALED AND DATED
ELECTRONICALLY.

DATE PREPARED 12/1/2025	
ROUTE 13	STATE MO
DISTRICT SW	SHEET NO. 27
COUNTY POLK	
JOB NO. JSR0183	
CONTRACT ID.	

PROJECT NO.	
BRIDGE NO. A26812	

DESCRIPTION	DATE

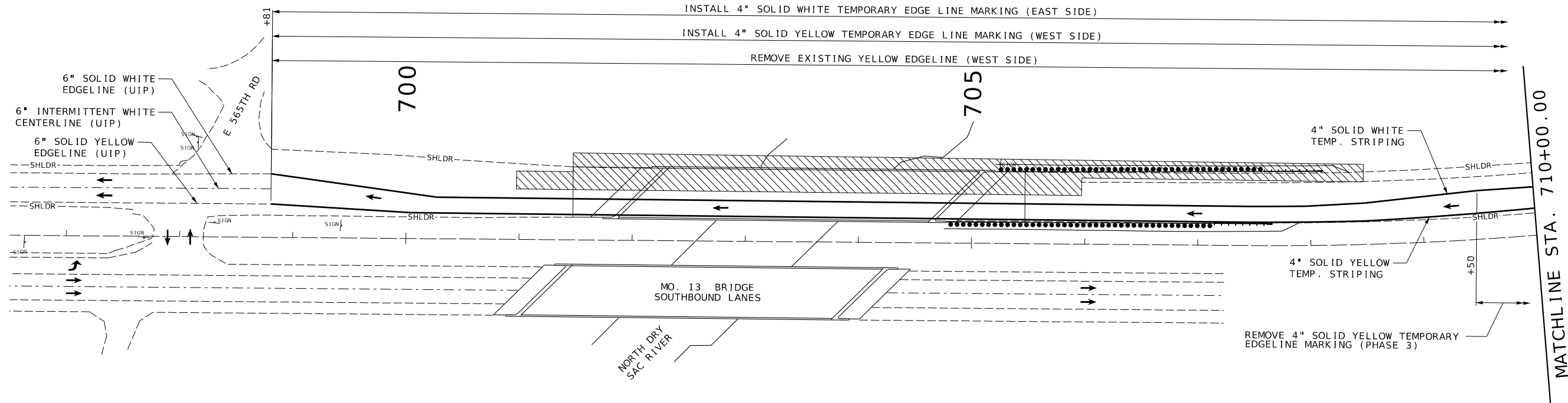
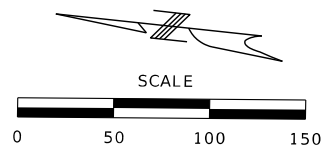
MISSOURI HIGHWAYS AND TRANSPORTATION
COMMISSION

MoDOT

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

VEENSTRA & KIMM INC.
A Kleinfelder Company

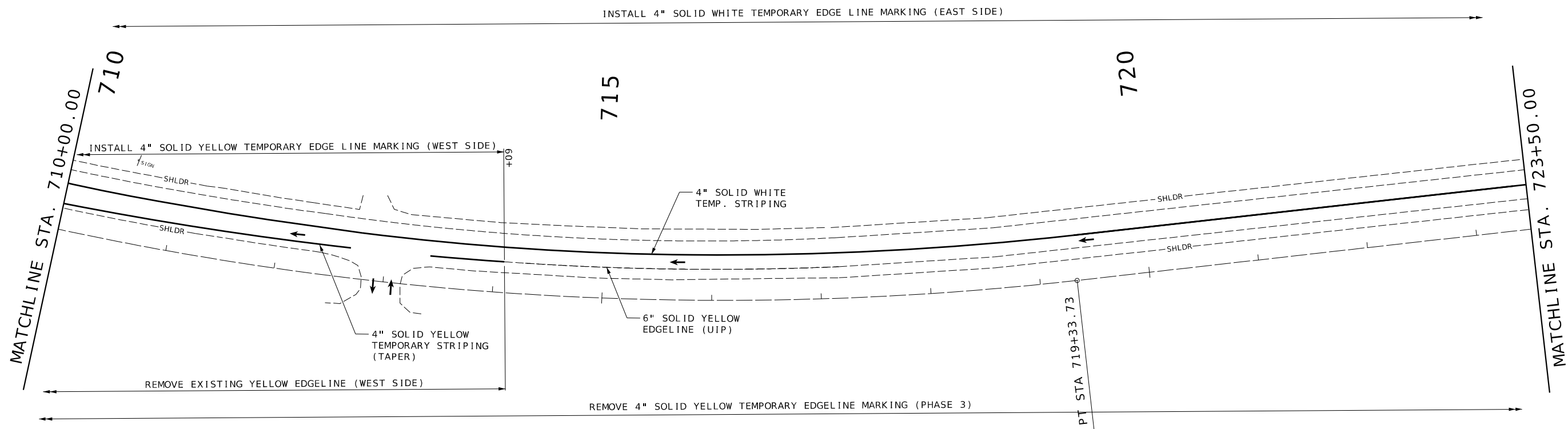
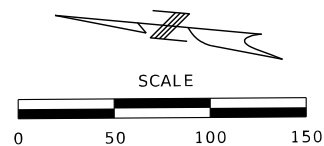
9788 N Ash Avenue
Kansas City, Missouri 64157
816-781-6182 816-781-0643 (FAX)
Certificate of Authority No. 2002006347



CONSTRUCTION PHASING: NORTHBOUND LANES BRIDGE NO. A26812

- PHASE 1- CONSTRUCT NEW ROADWAY SHOULDERS ON EAST SIDE OF ROADWAY.
SHOULDERS TO BE UTILIZED FOR TEMPORARY CONSTRUCTION TRAFFIC.
USE STATIONARY LANE CLOSURE ON EAST SIDE OF ROADWAY.
- PHASE 2- CONSTRUCT NEW ROADWAY SHOULDERS ON WEST SIDE OF ROADWAY.
SHOULDERS TO BE UTILIZED FOR TEMPORARY CONSTRUCTION TRAFFIC.
USE STATIONARY LANE CLOSURE ON WEST SIDE OF ROADWAY.
- PHASE 3- CONSTRUCT BRIDGE IMPROVEMENTS ON WEST SIDE OF BRIDGE.
USE STATIONARY LANE CLOSURE WITH TEMPORARY TRAFFIC BARRIER
ON WEST SIDE OF NORTHBOUND LANES.
- PHASE 4- CONSTRUCT BRIDGE IMPROVEMENTS ON EAST SIDE OF BRIDGE.
USE STATIONARY LANE CLOSURE WITH TEMPORARY TRAFFIC BARRIER
ON EAST SIDE OF NORTHBOUND LANES.

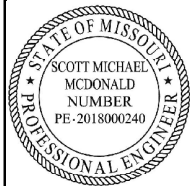
PHASE 4 - TEMPORARY
PAVEMENT MARKING
SHEET 4 OF 7



CONSTRUCTION PHASING: NORTHBOUND LANES BRIDGE NO. A26812

- PHASE 1- CONSTRUCT NEW ROADWAY SHOULDERS ON EAST SIDE OF ROADWAY. SHOULDERS TO BE UTILIZED FOR TEMPORARY CONSTRUCTION TRAFFIC. USE STATIONARY LANE CLOSURE ON EAST SIDE OF ROADWAY.
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- PHASE 4- CONSTRUCT BRIDGE IMPROVEMENTS ON EAST SIDE OF BRIDGE. USE STATIONARY LANE CLOSURE WITH TEMPORARY TRAFFIC BARRIER ON EAST SIDE OF NORTHBOUND LANES.

PHASE 4 - TEMPORARY
PAVEMENT MARKING
SHEET 5 OF 7



THIS SHEET HAS BEEN
SIGNED, SEALED AND DATED
ELECTRONICALLY.

DATE PREPARED

12/1/2025

ROUTE STATE

13 MO

DISTRICT SHEET NO.

SW 28

COUNTY

POLK

JOB NO.

JSR0183

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

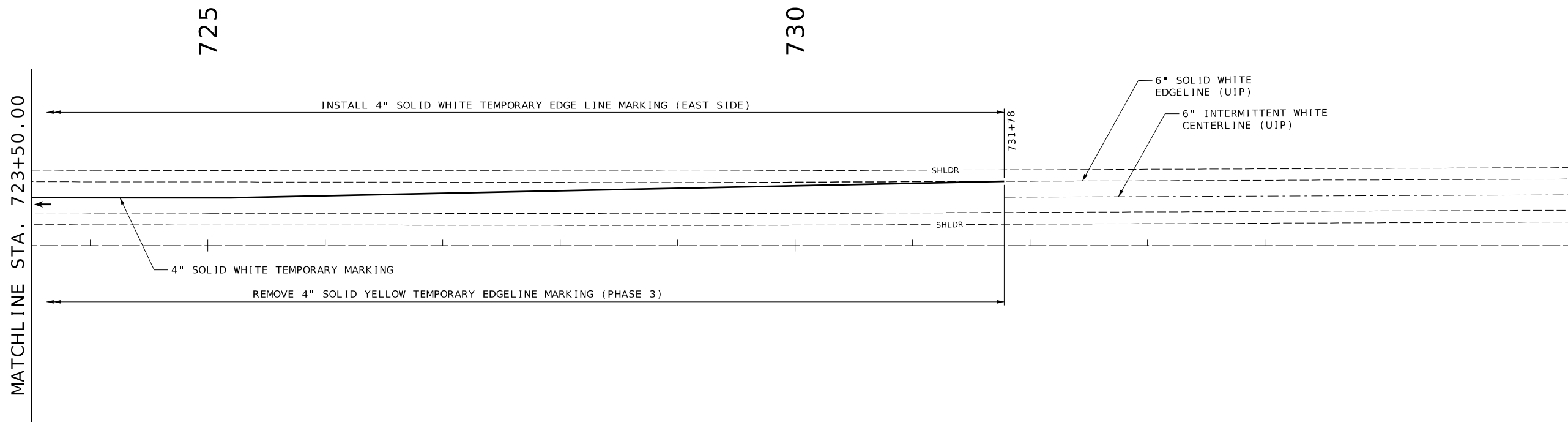
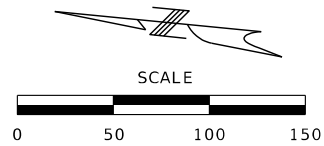
A26812

DESCRIPTION	DATE

MISSOURI HIGHWAYS AND TRANSPORTATION
COMMISSION

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

**VEENSTRA
& KIMM INC.**
A Kleinfelder Company
9788 N Ash Avenue
Kansas City, Missouri 64157
816-781-6182 816-781-0643 (FAX)
Certificate of Authority No. 2002006347



- CONSTRUCTION PHASING: NORTHBOUND LANES BRIDGE NO. A26812
- PHASE 1- CONSTRUCT NEW ROADWAY SHOULDERS ON EAST SIDE OF ROADWAY. SHOULDERS TO BE UTILIZED FOR TEMPORARY CONSTRUCTION TRAFFIC. USE STATIONARY LANE CLOSURE ON EAST SIDE OF ROADWAY.
 - PHASE 2- CONSTRUCT NEW ROADWAY SHOULDERS ON WEST SIDE OF ROADWAY. SHOULDERS TO BE UTILIZED FOR TEMPORARY CONSTRUCTION TRAFFIC. USE STATIONARY LANE CLOSURE ON WEST SIDE OF ROADWAY.
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 - PHASE 4- CONSTRUCT BRIDGE IMPROVEMENTS ON EAST SIDE OF BRIDGE. USE STATIONARY LANE CLOSURE WITH TEMPORARY TRAFFIC BARRIER ON EAST SIDE OF NORTHBOUND LANES.

PHASE 4 - TEMPORARY
PAVEMENT MARKING
SHEET 6 OF 7



THIS SHEET HAS BEEN
SIGNED, SEALED AND DATED
ELECTRONICALLY.

DATE PREPARED 12/1/2025	
ROUTE 13	STATE MO
DISTRICT SW	SHEET NO. 29
COUNTY POLK	
JOB NO. JSR0183	
CONTRACT ID.	
PROJECT NO.	

BRIDGE NO. A26812

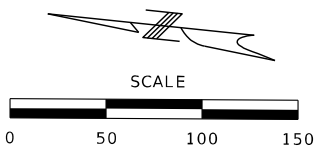
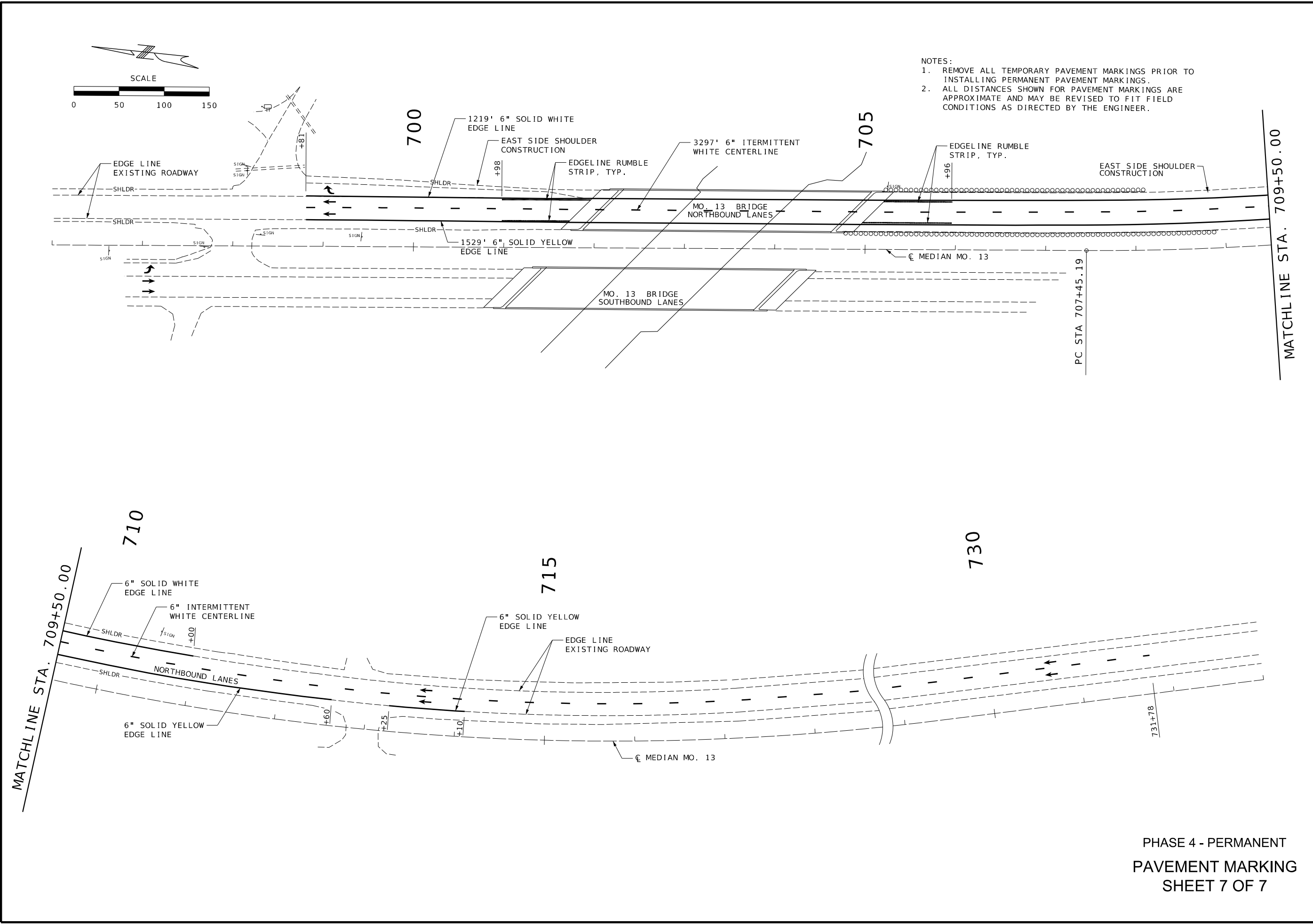
DESCRIPTION	DATE

MISSOURI HIGHWAYS AND TRANSPORTATION
COMMISSION

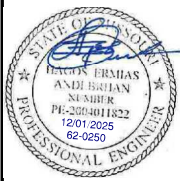
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

VEENSTRA & KIMM INC.
A Kleinfelder Company

9788 N Ash Avenue
Kansas City, Missouri 64157
816-781-6182 816-781-0643 (FAX)
Certificate of Authority No. 2002006347



- NOTES:
1. REMOVE ALL TEMPORARY PAVEMENT MARKINGS PRIOR TO INSTALLING PERMANENT PAVEMENT MARKINGS.
 2. ALL DISTANCES SHOWN FOR PAVEMENT MARKINGS ARE APPROXIMATE AND MAY BE REVISED TO FIT FIELD CONDITIONS AS DIRECTED BY THE ENGINEER.



DATE PREPARED 12/1/2025	
ROUTE 13	STATE MO
DISTRICT SW	SHEET NO. 30
COUNTY POLK	
JOB NO. JSR0183	
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO. A26812	

DESCRIPTION	DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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

Taliaferro & Browne, Inc.
Civil / Structural Engineering,
Landscape Architecture & Surveying
1020 E. 80th Street, Suite 100
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PH (816) 283-3456 FAX (816) 283-0810
PROFESSIONAL ENGINEERING CORPORATION
MISSOURI LICENSE NO. 000466 KANSAS LICENSE NO. F-481
PROFESSIONAL LAND SURVEYING CORPORATION
MISSOURI LICENSE NO. 000094

PHASE 4 - PERMANENT
PAVEMENT MARKING
SHEET 7 OF 7

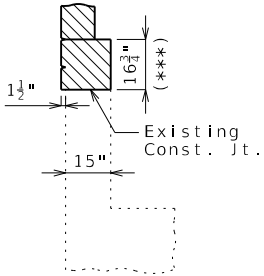
Resin Anchor System
The contractor shall use one of the qualified resin anchor systems in accordance with Sec 1039.

The minimum embedment depth in concrete with $f'c = 4000$ psi for the resin anchor systems shall be that required to meet the minimum ultimate pullout strength in accordance with Sec 1039 but shall not be less than 6".

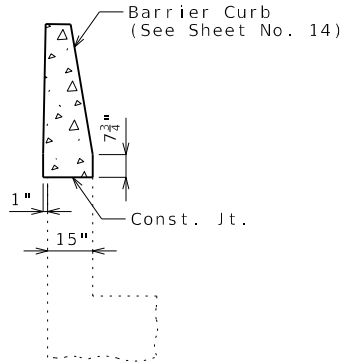
An epoxy coated #5 Grade 60 reinforcing bar shall be substituted for the 5/8" Ø threaded rod.

Cost of furnishing and installing Resin Anchor Systems A and B, complete in place, will be considered completely covered by the contract unit price for Bridge Approach Slab (Major).

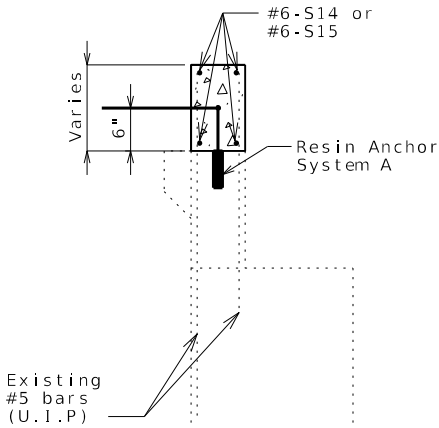
For Resin Anchor System C, see Sheet No. 14.



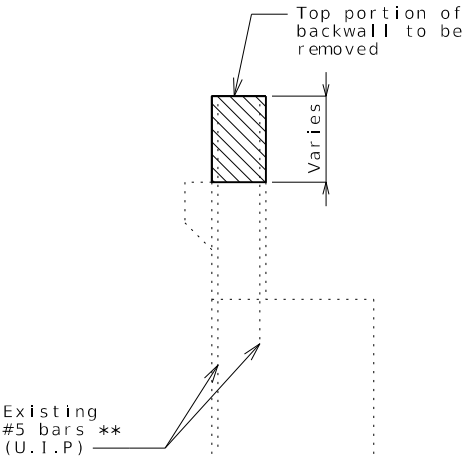
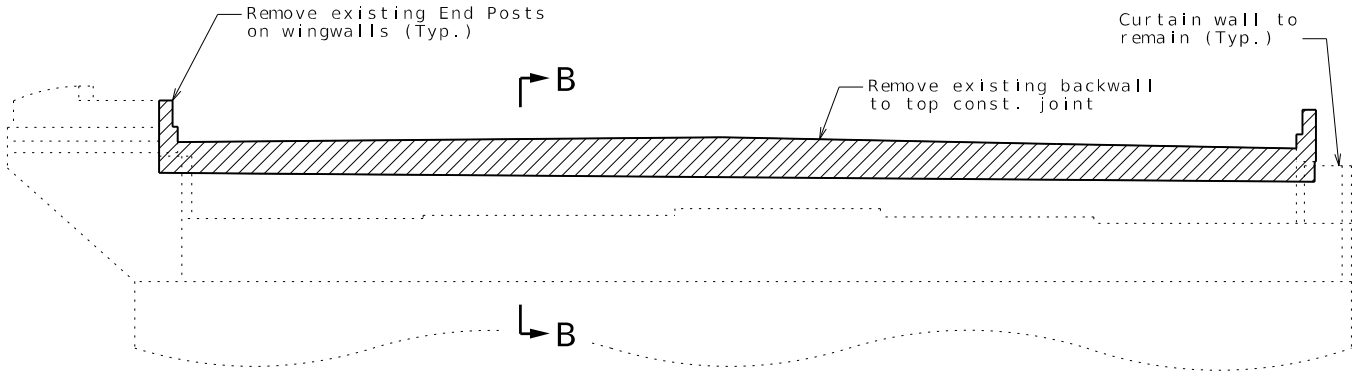
DETAILS OF WINGWALL
REMOVAL AT END BENTS



DETAILS OF WINGWALL
REPLACEMENT AT END BENTS



SECTION A-A



SECTION B-B

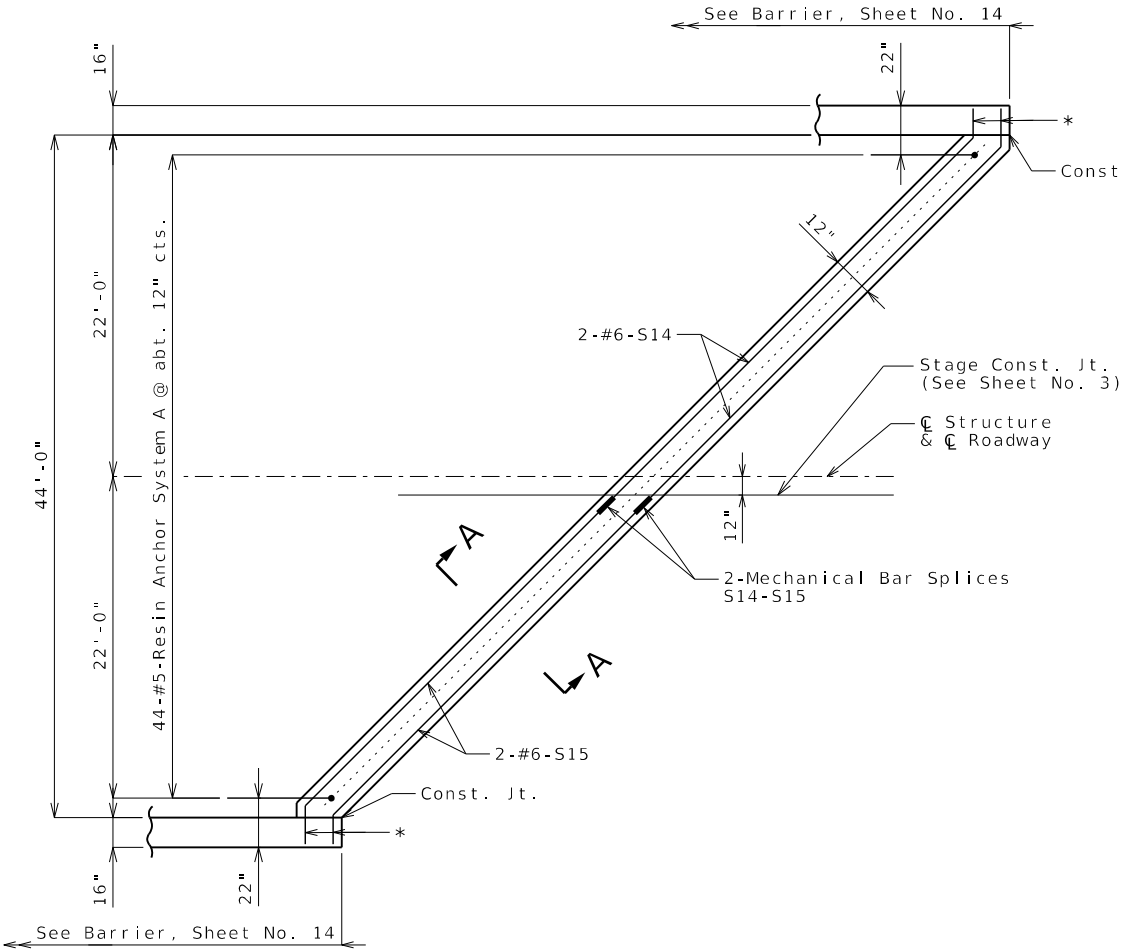
DETAILS OF CONCRETE REMOVAL AT END BENTS

The cost of concrete removal as shown will be considered completely covered by the contract unit price for Removal of Existing Bridge Deck.

A smooth, level surface shall be provided at removal lines.

** #5 vertical bars shall be cleaned, straightened and reused.

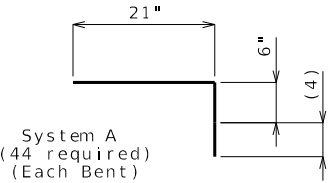
*** Verify dimension in field.



PART PLAN OF SLAB SHOWING REINFORCEMENT AT END BENT

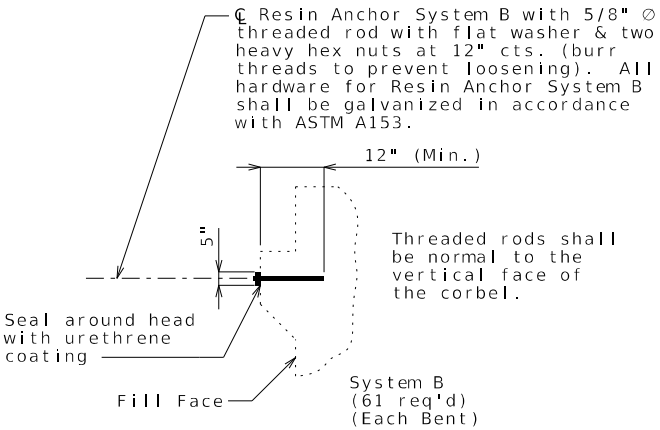
Existing reinforcement not shown for clarity.

* Field Bend S14 and S15 bars as necessary.



DETAILS OF
RESIN ANCHOR SYSTEM

(4) Manufacturer's recommended embedment length (5" min.)



DETAILS OF CORBEL
STRENGTHENING



THIS SHEET HAS BEEN
SIGNED, SEALED AND DATED
ELECTRONICALLY.

DATE PREPARED
12/01/2025

ROUTE
13

STATE
MO

DISTRICT
BR

SHEET NO.
2

COUNTY
POLK

JOB NO.
JSR0183

CONTRACT ID.

PROJECT NO.

BRIDGE NO.
A26812

DESCRIPTION

DATE

MISSOURI HIGHWAYS AND TRANSPORTATION
COMMISSION

105 WEST CAPITOL
JEFFERSON CITY, MO 65102

1-888-ASK-MODOT (1-888-275-6636)

MoDOT

VEENSTRA
& KIMM INC.

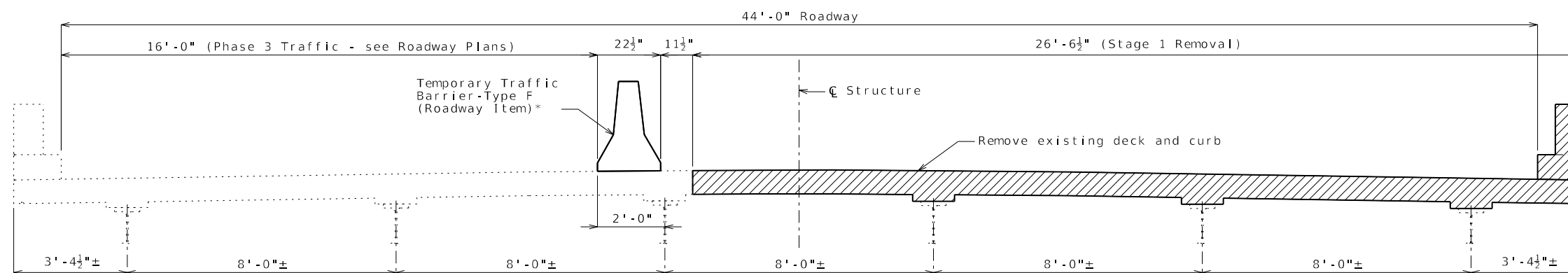
A Kleinfelder Company

9788 N Ash Avenue
Kansas City, Missouri 64157

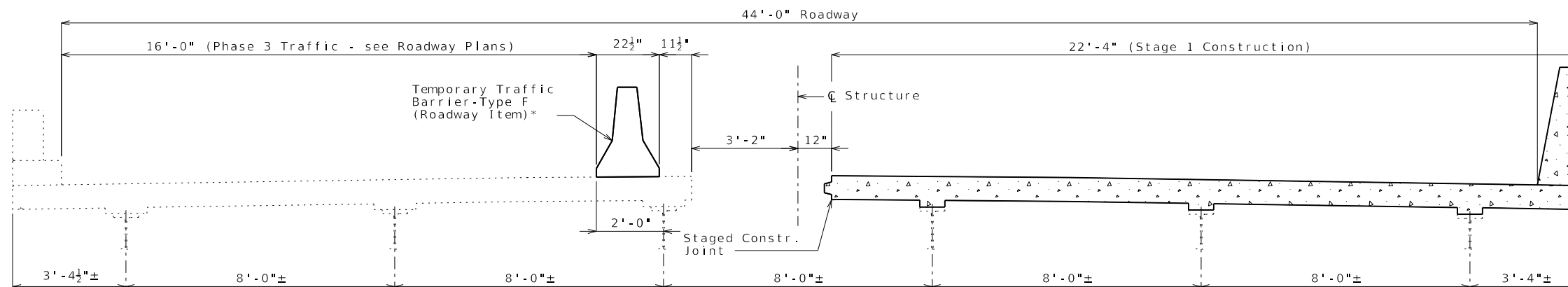
816-781-0643 (FAX)

816-781-6182

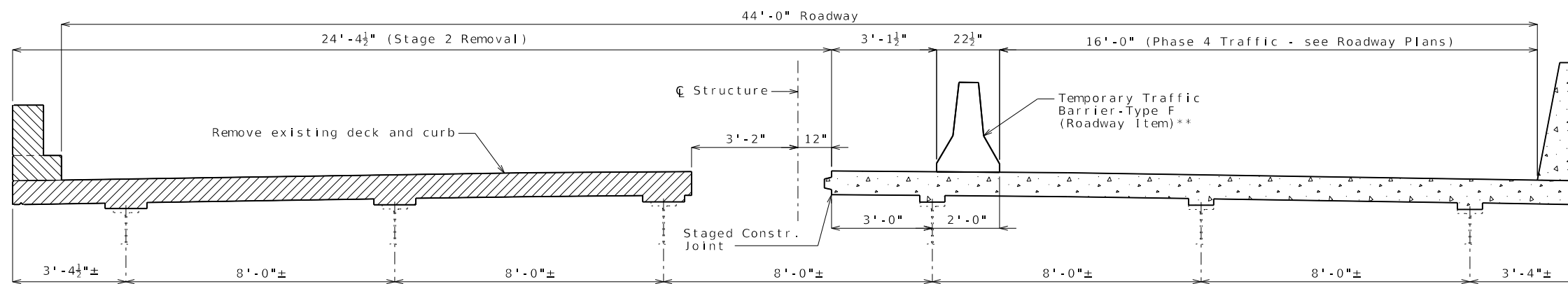
Certificate of Authority No. 2002006347



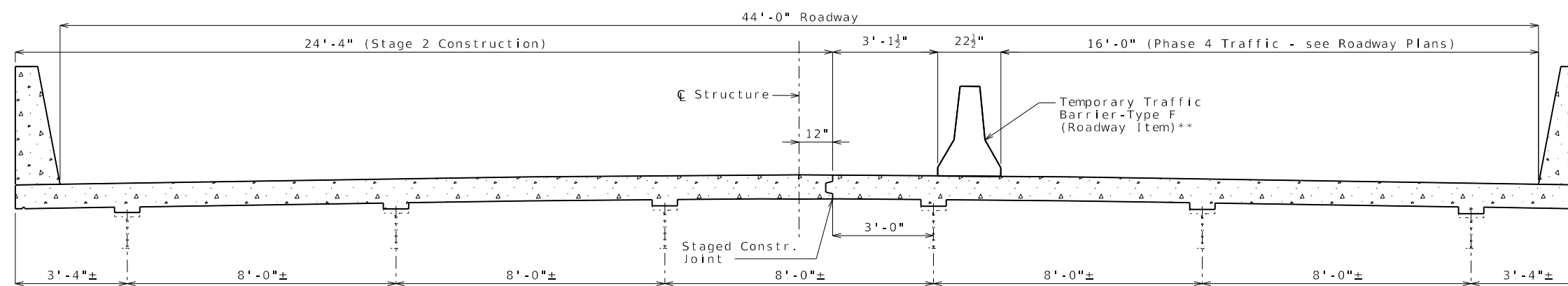
STAGE 1 REMOVAL



STAGE 1 CONSTRUCTION



STAGE 2 REMOVAL



STAGE 2 CONSTRUCTION

DETAILS SHOWING STAGED CONSTRUCTION

Notes:

Existing bolts on intermediate diaphragms and cross frames that connect beams under different construction staged slab pours shall be removed and replaced with new kind high strength bolts installed snug tight and in accordance with Sec 712. The high strength bolts shall be tightened after both adjacent slab pours are completed. Cost will be considered incidental to other pay items.

*Method of attachments for temporary barrier shall be bolt through deck.

**Temporary barrier shall not be attached to the bridge.



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ROUTE	STATE
13	MO

15	MO
DISTRICT	SHEET NO.

BR	3
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COUNTY
DOLK

PULK
JOB NO.

JSR0183

CONTRACT ID.						
PROJECT NO.						
BRIDGE NO. A26812						
DATE	DESCRIPTION					

MISSOURI HIGHWAYS AND TRANSPORTATION
COMMISSION

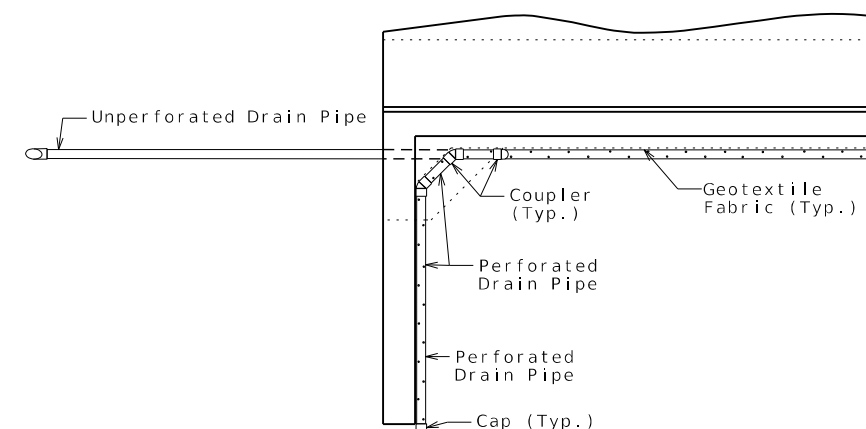
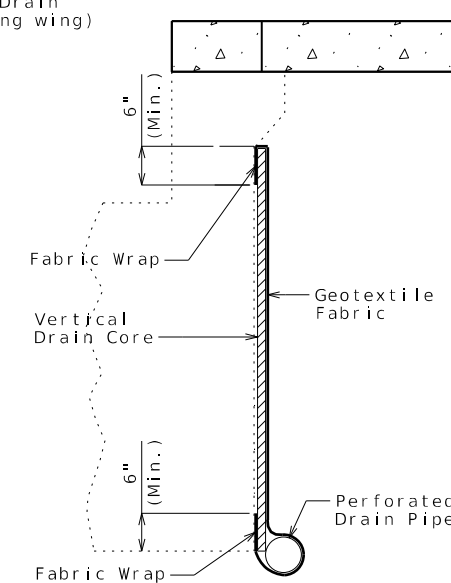
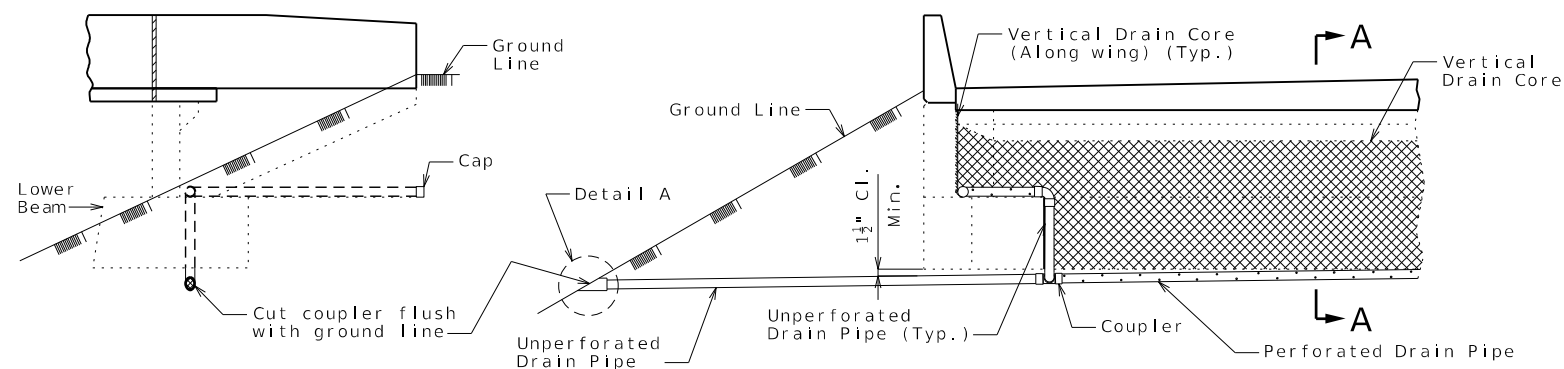
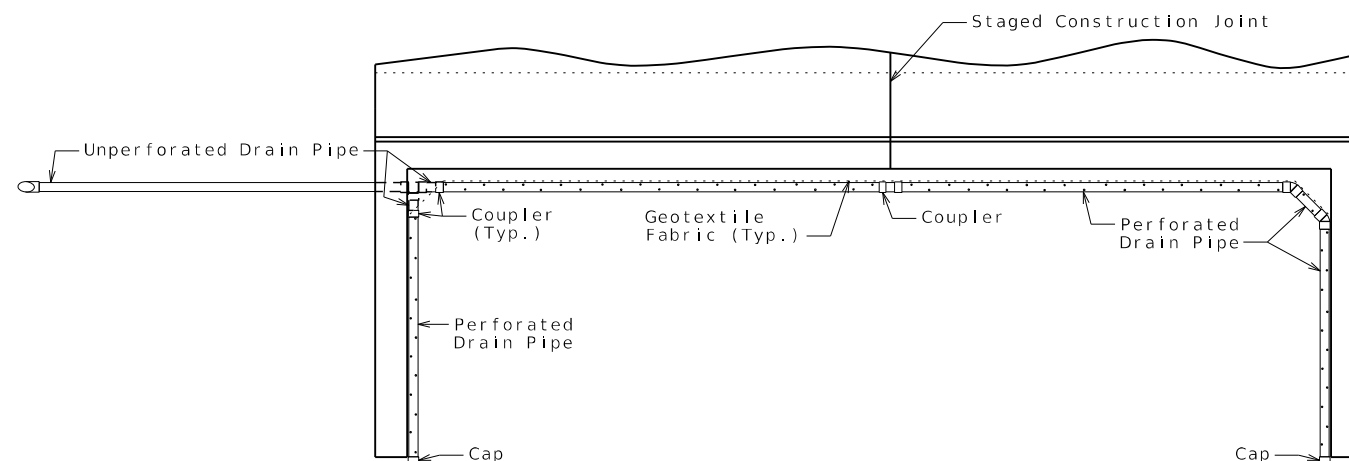
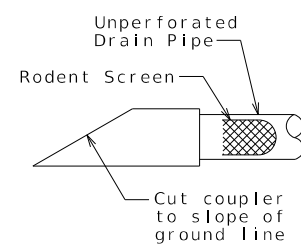
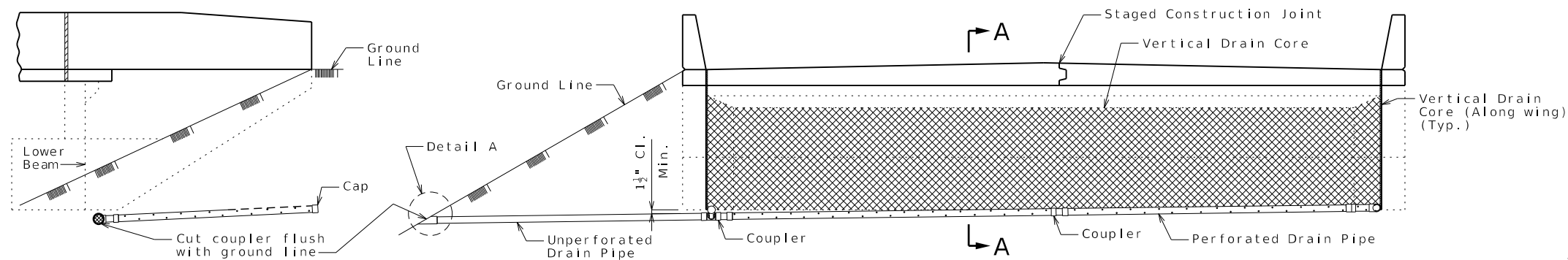
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VERTICAL DRAIN AT END BENTS

(Squared end bent shown, skewed end bent similar)

Detailed Jul. 2025
Checked Jul. 2025

Note: This drawing is not to scale. Follow dimensions.

Sheet No. 5 of 17

General Notes:

All drain pipe shall be sloped 1 to 2 percent.

Drain pipe may be either 6-inch diameter corrugated metallic-coated steel pipe underdrain, 4-inch diameter corrugated polyvinyl chloride (PVC) drain pipe, or 4-inch diameter corrugated polyethylene (PE) drain pipe.

Drain pipe shall be placed at fill face of end bent and inside face of wings. The pipe shall slope to lowest grade of ground line, also missing the lower beam of end bent by a minimum of 1 1/2 inches.

Perforated pipe shall be placed at fill face side and inside face of wings at the bottom of end bent and plain pipe shall be used where the vertical drain ends to the exit at ground line.



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ROUTE	STATE
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13	MO
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DISTRICT	SHEET NO.
RR	5

BR	3
COUNTY	

POLK

JOB NO.

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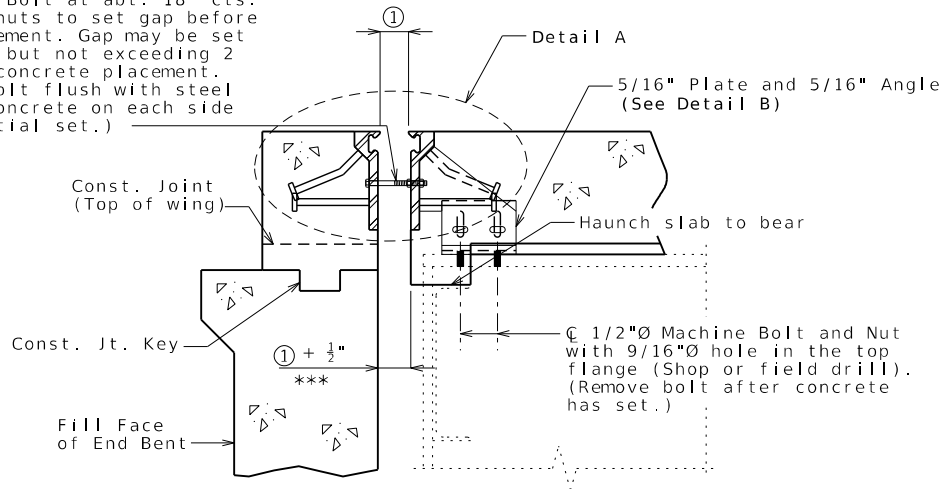
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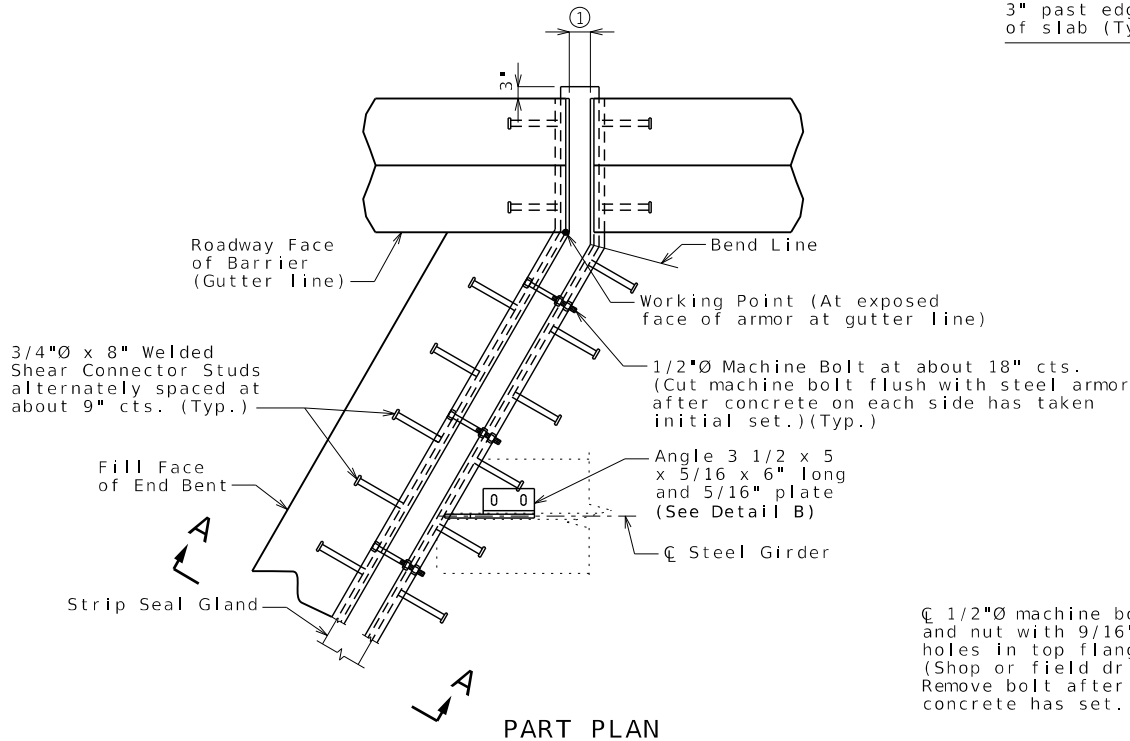
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1/2"Ø Machine Bolt at abt. 18" cts.
(Use two hex nuts to set gap before
concrete placement. Gap may be set
anytime up to but not exceeding 2
hours before concrete placement.
Cut machine bolt flush with steel
armor after concrete on each side
has taken initial set.)

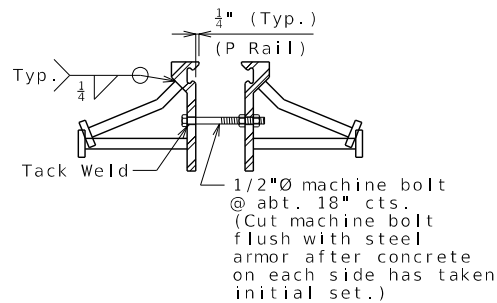


SECTION A-A

Strip seal gland not shown for clarity.

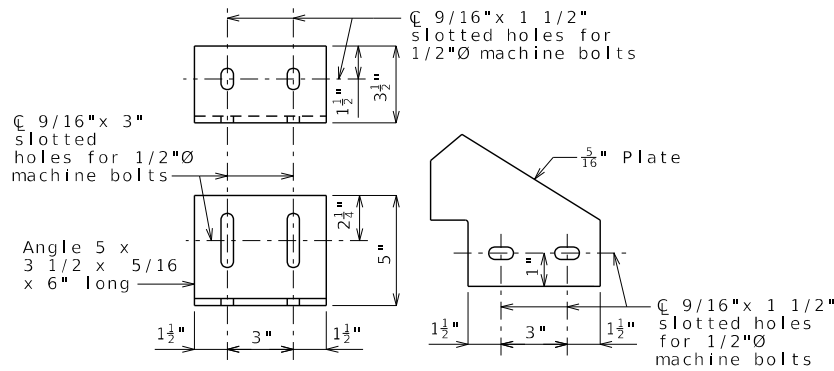


PART PLAN

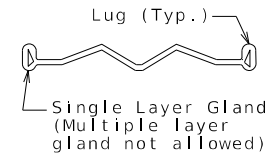


DETAIL A

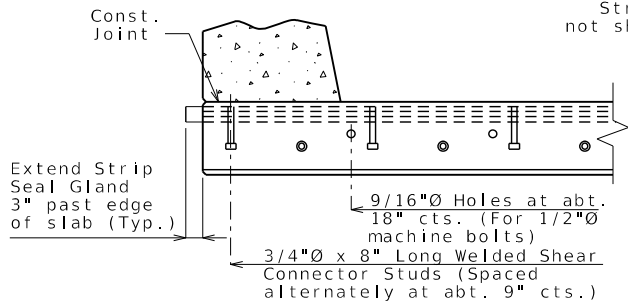
(P Rail shown, R Rail similar)



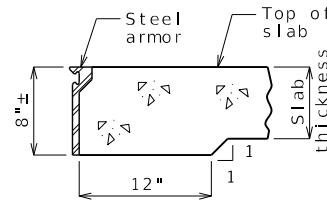
DETAIL B



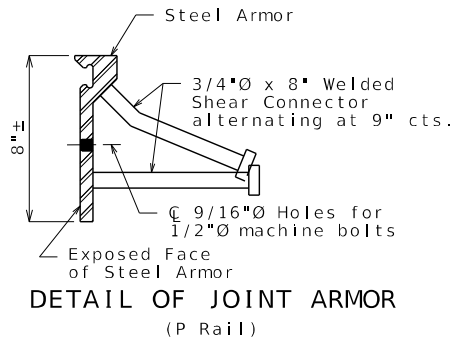
DETAIL OF GLAND



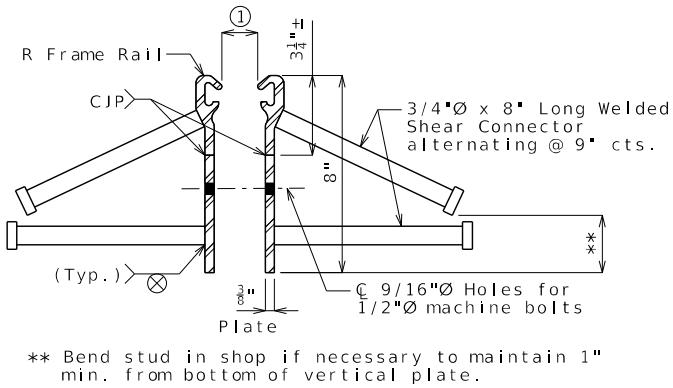
PART SECTION B-B



PART SECTION THRU EXPANSION JOINT IN SLAB CANTILEVER



DETAIL OF JOINT ARMOR (P Rail)



OPTIONAL R RAIL DETAIL

GENERAL NOTES:

Expansion joint system shall be fabricated in one section, except for staged construction and when the length is over 50 feet. A complete joint penetration groove welded splice shall be required. Welds shall be ground flush to provide a smooth surface. The expansion joint system shall be fabricated and installed to the crown and grade of the roadway.

The strip seal gland shall be installed in joints in one continuous piece without field splices. Factory splicing will be permitted for joints in excess of 53 feet.

Structural steel for the expansion joint system shall be ASTM A709 Grade 36 except the steel armor may be ASTM A709 Grade 50W. Anchors for the expansion joint system shall be in accordance with Sec 1037. Strip seal expansion joint system shall be in accordance with Sec 717.

Structural steel for the expansion joint system shall be coated with a minimum of two coats of inorganic zinc primer to provide a total dry film thickness of 4 mils minimum, 6 mils maximum, or galvanized in accordance with ASTM A123. Anchors need not be protected from overspray.

Longitudinal and transverse reinforcing steel shall be placed so that ends shall be 1" from the vertical leg of the steel armor at the expansion joint system.

Concrete shall be forced under and around steel armor and anchors. Proper consolidation of the concrete shall be achieved by localized internal vibration.

② The installation temperature shall be taken as the actual air temperature averaged over the 24-hour period immediately preceding installation.

③ MoDOT Construction personnel will indicate the strip seal expansion joint system installed.

Steel armor may also be referred to as extrusion or rail.

The terms P and R rail are used for identification only, and are not endorsements for any particular manufacturer.

*** Because of variation in armor dimensions, the concrete opening will vary if the optional R rail is used. Dimensions shown are based on the P rail option.

v.i.f. denotes "verify in field"

Table of Allowed Transverse Strip Seal Expansion Joint System

Manufacturer	Strip Seal System (Designated Name)	Movement Parallel to RDWY	Allowed Installation Gap ① Normal to Joint at RDWY Surface @ Air/Surface Temperature ②						③
			@ 40°F	@ 50°F	@ 60°F	@ 70°F	@ 80°F	@ 90°F	
D S Brown	Strip seal L2-400	2¼"	2⅛"	2"	1⅞"	1¾"	1⅝"	1⅑"	□
D S Brown	Strip seal L2-500	2¼"	2⅛"	2"	1⅞"	1¾"	1⅝"	1⅑"	□



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ROUTE
13

DISTRICT
BR

COUNTY
POLK

JOB NO.
JSR0183

CONTRACT ID.

PROJECT NO.

BRIDGE NO.
A26812

DESCRIPTION

DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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MoDOT

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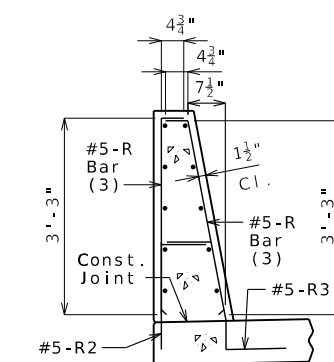
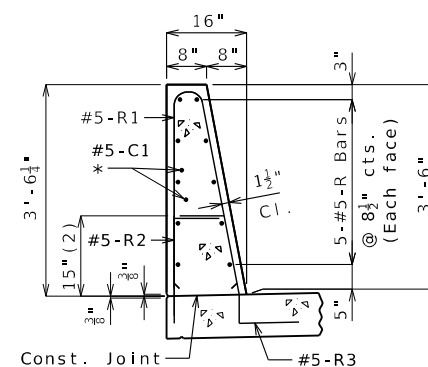
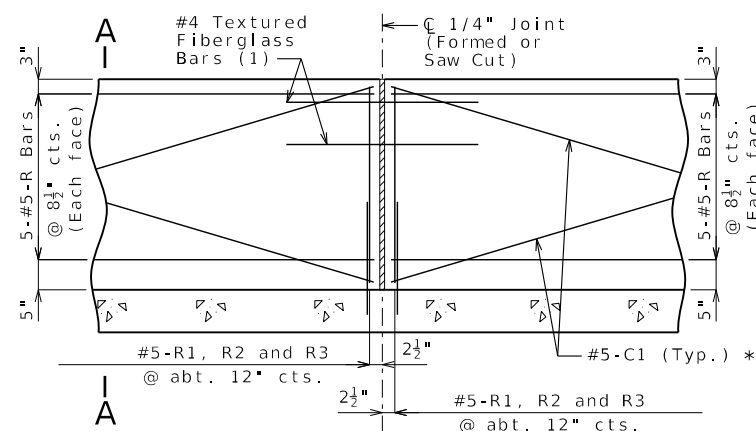
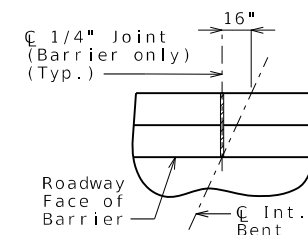
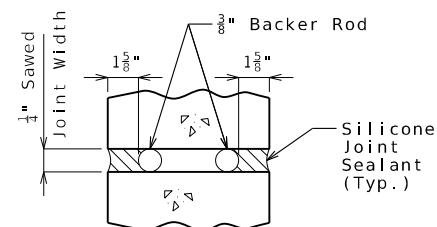
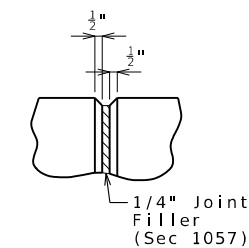
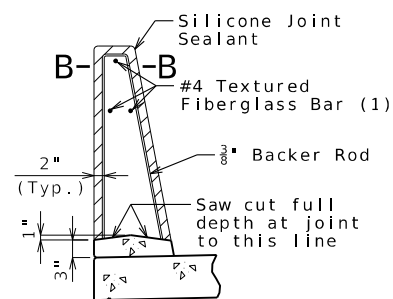
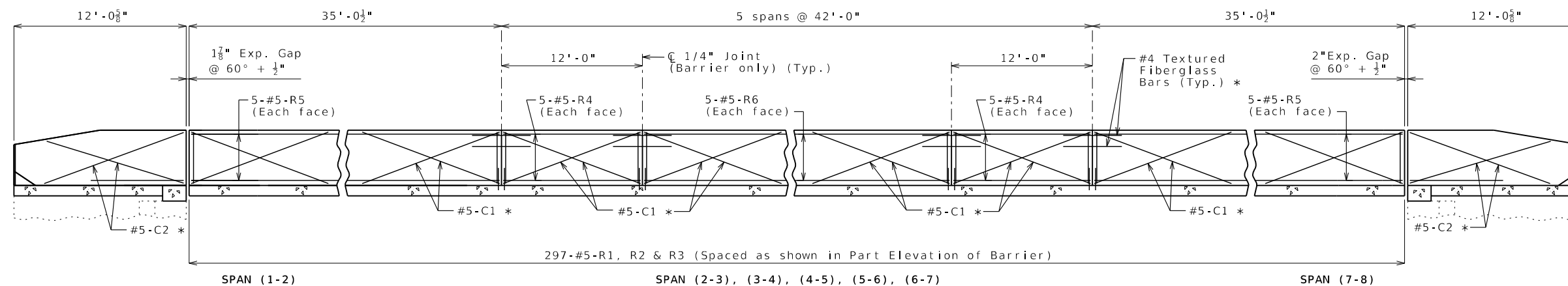
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11.11.11



(3) The R1 bar may be separated into two bars as shown, at the contractor's option, only when slip forming is not used. (All dimensions are out to out.)

General Notes:

* Slip-formed option only.

Conventional forming or slip forming may be used. Saw cut joints may be used with conventional forming.

Top of barrier shall be built parallel to grade and barrier joints (except at end bents) normal to grade.

All exposed edges of barrier shall have either a 1/2-inch radius or a 3/8-inch bevel, unless otherwise noted.

Payment for all concrete and reinforcement, complete in place, will be considered completely covered by the contract unit price for Type D Barrier per linear foot.

Concrete in barrier shall be Class B-1.

Measurement of barrier is to the nearest linear foot for each structure, measured along the outside top of slab from end of wing to end of wing.

Concrete traffic barrier delineators shall be placed on top of the barrier as shown on Missouri Standard Plan 617.10 and in accordance with Sec 617. Delineators on bridges with two-lane, two-way traffic shall have retroreflective sheeting on both sides. Concrete traffic barrier delineators will be considered completely covered by the contract unit price for Type D Barrier.

Joint sealant and backer rods shall be in accordance with Sec 717 for silicone joint sealant for saw cut and formed joints.

For slip-formed option, both sides of barrier shall have a vertically broomed finish and the top shall have a transversely broomed finish.



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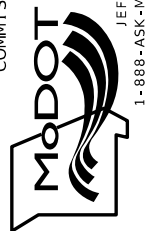
DISTRICT	SHEET NO.
BR	13

COUNTY
POLK

JOB NO.
JSR0183

CONTRACT ID.

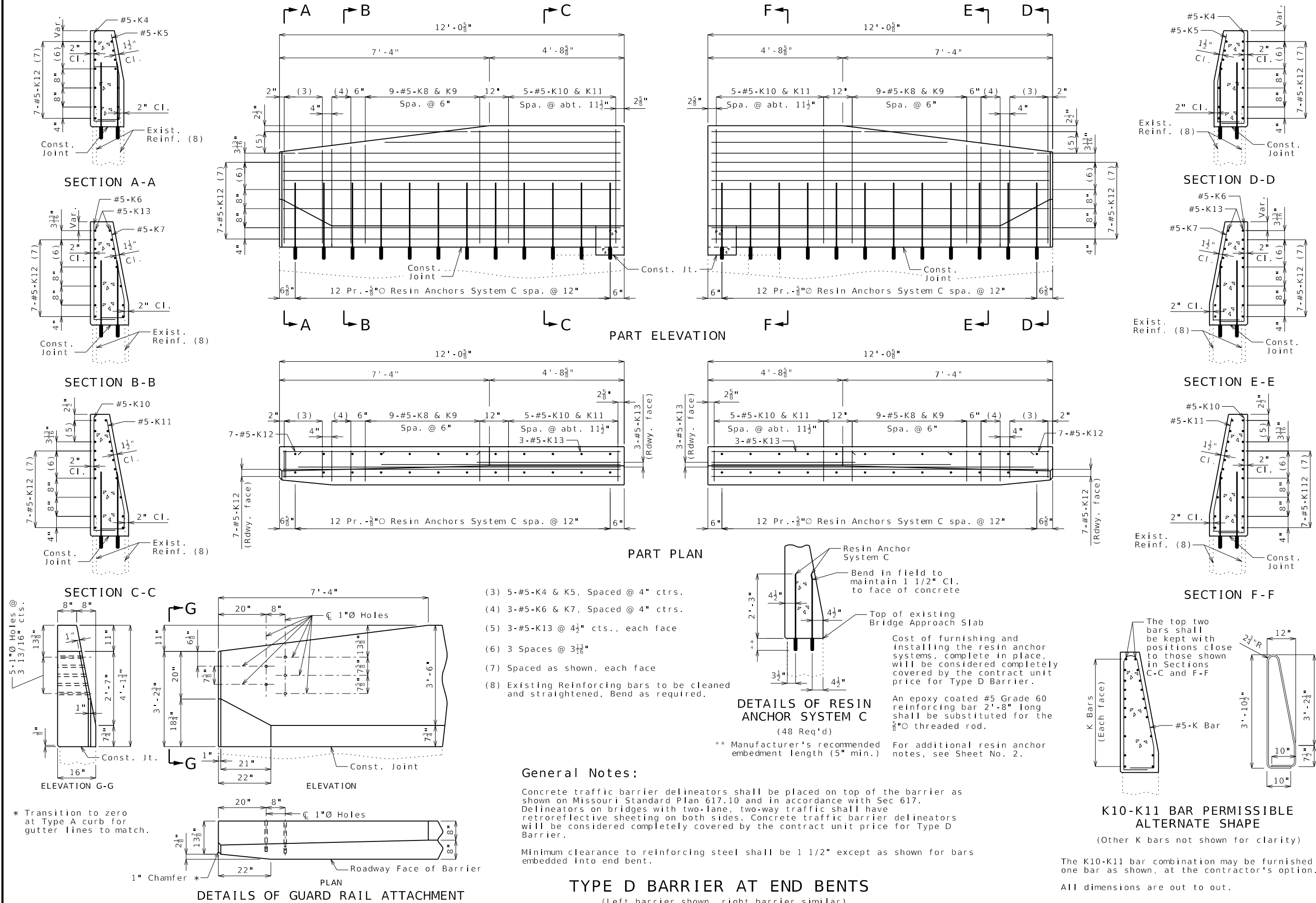
PROJECT NO.

BRIDGE NO.
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ROUTE
13

DISTRICT
BR

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POLK

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BRIDGE NO.
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DESCRIPTION

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MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

105 WEST CAPITOL

JEFFERSON CITY, MO 65102

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MO DOT

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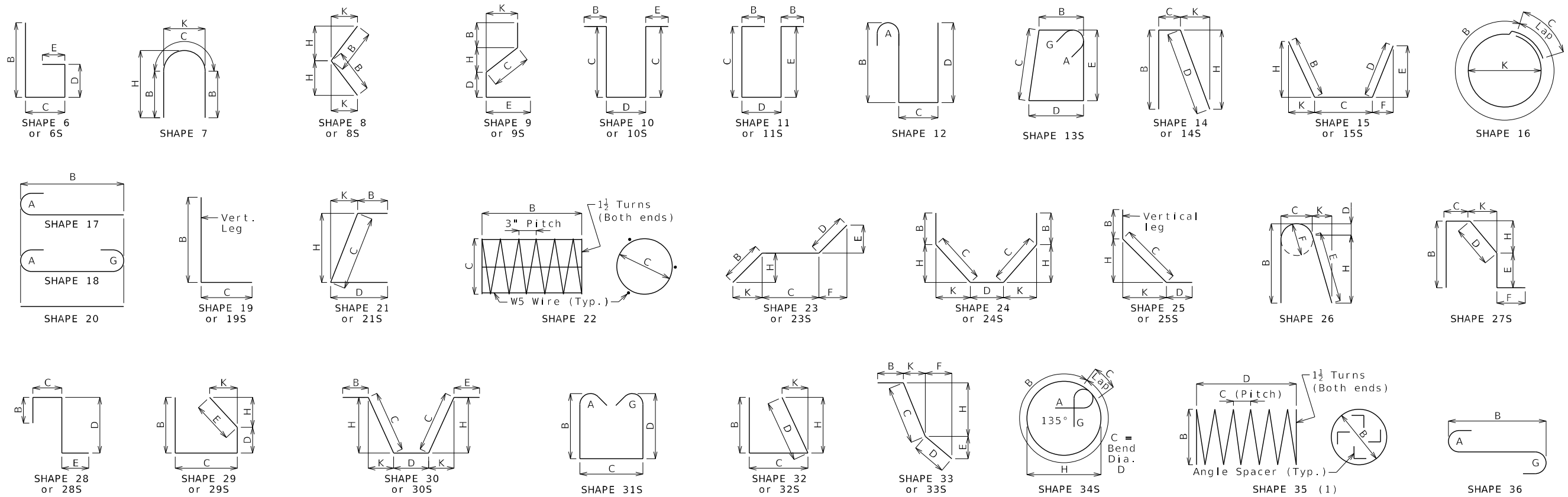
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Finished Bend Diameters D and Hook Dimensions						
Standard Pin Bend Shapes						
Size	Case	D	A or G		J	
			90°	180°	180°	
#4	1	3"	8"	6"	4"	
#5	1	3 $\frac{3}{8}$ "	10"	7"	5"	
#6	1	4 $\frac{1}{2}$ "	12"	8 $\frac{3}{4}$ "	6"	
#7	2	5 $\frac{1}{4}$ "	14"	9 $\frac{3}{4}$ "	7"	
	3	7"	15"	11 $\frac{1}{2}$ "	8 $\frac{3}{4}$ "	
#8	2	6"	16"	11"	8"	
	3	8"	17"	13 $\frac{1}{4}$ "	10"	
#9	1	9 $\frac{1}{4}$ "	19 $\frac{1}{2}$ "	15 $\frac{1}{2}$ "	11 $\frac{3}{4}$ "	
#10	1	10 $\frac{3}{4}$ "	22"	17 $\frac{1}{2}$ "	13 $\frac{3}{4}$ "	
#11	1	12"	24 $\frac{1}{2}$ "	19 $\frac{1}{2}$ "	14 $\frac{7}{8}$ "	
#14	1	18 $\frac{1}{4}$ "	31 $\frac{1}{4}$ "	27 $\frac{1}{2}$ "	21 $\frac{5}{8}$ "	
#18	1	24"	41 $\frac{1}{2}$ "	36 $\frac{1}{4}$ "	28 $\frac{1}{2}$ "	
Stirrup Pin Bend Shapes (S)						
Size	Case	D	A or G			J
			90°	135°	180°	
#4	2	2"	4 $\frac{1}{2}$ "	4 $\frac{1}{2}$ "	5"	2 $\frac{7}{8}$ "
	3	3"	5"	5 $\frac{1}{4}$ "	6"	3"
#5	2	2 $\frac{1}{2}$ "	5 $\frac{3}{4}$ "	5 $\frac{3}{4}$ "	5 $\frac{3}{4}$ "	3 $\frac{5}{8}$ "
	3	3 $\frac{3}{4}$ "	6 $\frac{3}{4}$ "	6 $\frac{1}{2}$ "	7"	3 $\frac{7}{8}$ "
#6	1	4 $\frac{1}{2}$ "	12"	7 $\frac{3}{4}$ "	8 $\frac{1}{4}$ "	4 $\frac{5}{8}$ "
Applicable for all grades of steel. Case 1 applies to all reinforcement. Case 2 applies to all reinforcement except for galvanized bars. Case 3 applies to galvanized bars only.						

Detailing Dimension

90°

Detailing Dimension

Hook

A or G

180°

4d or 2 $\frac{1}{2}$ " Min.

6d for #4 & #5,
12d for #6

Detailing Dimension

90°

Detailing Dimension

135°

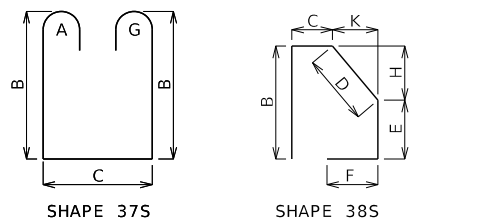
Detailing Dimension

Hook

A or G

180°

4d or 2 $\frac{1}{2}$ " Min.



BENDING DIAGRAMS

All dimensions are out to out.

Shapes ending with an S shall be bent in accordance with stirrup pin bend shapes.

Unless otherwise noted,
finished bending diameter
D is the same for all
bends of a shape.

(1) Shall be a deformed or plain spiral bar or wire.

Four angle or channel spacers are required for each column spiral. Spacers are to be placed on inside of spirals. Length and weight of column spirals do not include splices or spacers.

	Reinforcing Steel Totals (Pounds)								
	Size	Substructure		Superstructure			Entire Bridge		
		Plain	Epoxy	Slab		Barrier	Slip Form	Plain	Epoxy
				Plain	Epoxy				
By Size	W5	0	0	0	0	0	0	0	0
	4	0	0	0	0	0	0	0	0
	5	0	0	0	29,635	15,104	1284	0	46,023
	6	0	0	0	75,935	0	0	0	75,935
	7	0	0	0	0	0	0	0	0
	8	0	0	0	0	0	0	0	0
	9	0	0	0	0	0	0	0	0
	10	0	0	0	0	0	0	0	0
	11	0	0	0	0	0	0	0	0
	14	0	0	0	0	0	0	0	0
18	0	0	0	0	0	0	0	0	
By Type		0	0	0	105,570	15,104	1284	0	121,958

All superstructure reinforcing steel shall be epoxy coated unless otherwise specified.



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ROUTE 13	STATE MO
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DISTRICT BR	SHEET NO. 16
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COUNTY
POLK

JOB NO.
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CONTRACT ID.

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