DESIGN DESIGNATION

A.A.D.T. - 2025 = 7649
A.A.D.T. - 2045 = 8451
D.H.V. = 8.94%
T = 12.72%
V = 55 M.P.H.

FUNCTIONAL CLASSIFICATION-MINOR ARTERIAL

NORMAL RIGHT OF WAY WILL BE REQUIRED FOR THIS PROJECT

CONVENTIONAL SYMBOLS
(USED IN PLANS)

	EXISTING	NEW
BUILDINGS AND STRUCTURES		
GUARD RAIL		
GUARD CABLE		
CONCRETE RIGHT-OF-WAY MARKER		
STEEL RIGHT-OF-WAY MARKER		
LOCATION SURVEY MARKER		
UTILITIES		
FIBER OPTICS	-FO-	FO
OVERHEAD CABLE TV	-OTV-	OTV
UNDERGROUND CABLE TV	-UTV-	UTV
OVERHEAD TELEPHONE	-OT-	OT
UNDERGROUND TELEPHONE	-UT-	UT
OVERHEAD POWER	-OE-	OE
UNDERGROUND POWER	-UE-	UE
SANITARY SEWER	-S-	S
STORM SEWER	-SS-	SS
GAS	-G-	G
WATER	-W-	W
MANHOLE	SAN	
FIRE HYDRANT	HYD	
WATER VALVE	WV	
WATER METER	WM	
DROP INLET	D	
DITCH BLOCK		
GROUND MOUNTED SIGN	SIGN	
LIGHT POLE		
H-FRAME POWER POLE		
TELEPHONE PEDESTAL	PED	
FENCE		
CHAIN LINK	V	
WOVEN WIRE	X	
GATE POST		
BENCHMARK	BM	

NOTE: DASHED OR OPEN SYMBOLS INDICATE EXISTING FEATURES

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
PLANS FOR PROPOSED
STATE HIGHWAY
LINCOLN COUNTY

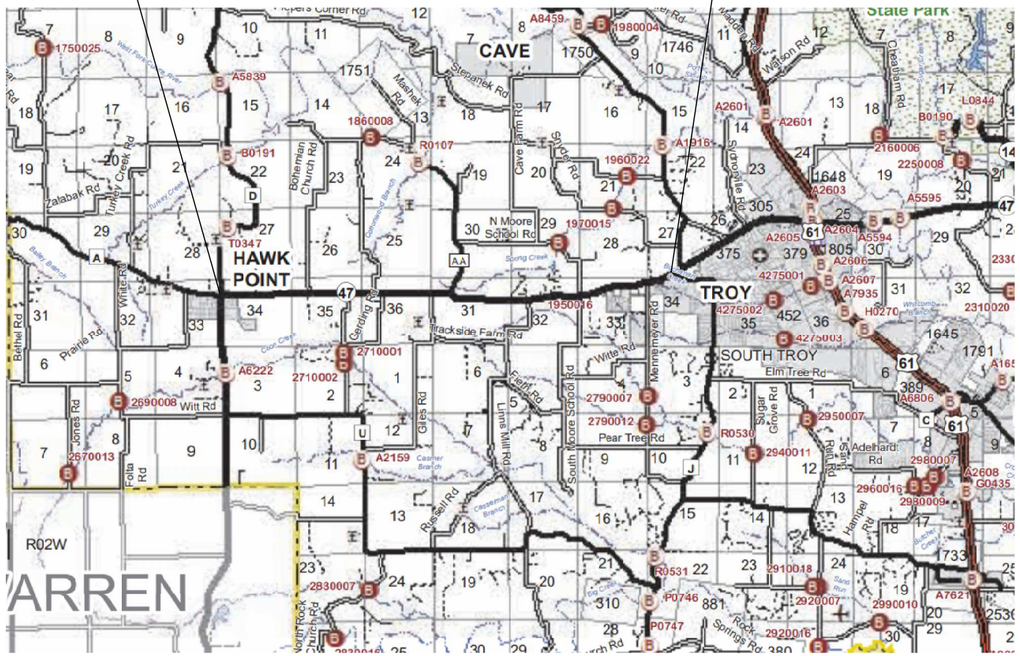
T49N R1W AND T49 N R2W

KEY MAP
LOCATION OF LINCOLN COUNTY

PROJECT LIMITS
RESURFACING AND WIDENING

BEGIN PROJECT
STA 2000+08.7
LOG MILE 22.630

END PROJECT
STA 2363+23.9
LOG MILE 15.732



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.

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LENGTH OF PROJECT

BEGINNING OF PROJECT	STA.	2000+08.7
END OF PROJECT	STA.	2363+23.9
APPARENT LENGTH		36,315.2 FEET
EQUATIONS AND EXCEPTIONS:		
TOTAL CORRECTIONS		0.0 FEET
NET LENGTH OF PROJECT		36,315.2 FEET
STATE LENGTH		6.878 MILES
FOR INFORMATION ONLY ESTIMATED DISTURBED ACRES		63.1 ACRES

STATE OF MISSOURI
JEFFREY R. RENSING
NUMBER PE-2006012376
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED 8/26/2025
ROUTE 47 | STATE MO
DISTRICT NE | SHEET NO. 1
COUNTY LINCOLN
JOB NO. JNE0003
CONTRACT ID.
PROJECT NO.
BRIDGE NO.

DATE	DESCRIPTION

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

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

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618.416.4488
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St. Charles, MO 63301
636.493.8277
www.oatesassociates.com
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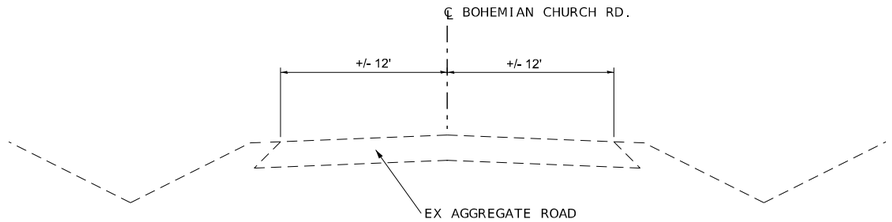
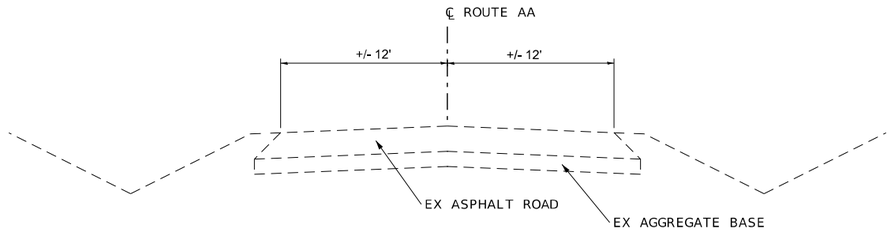
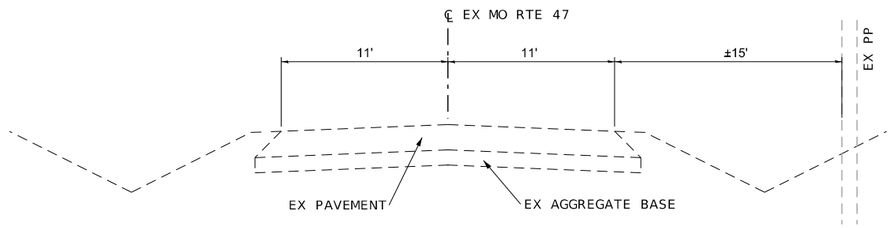


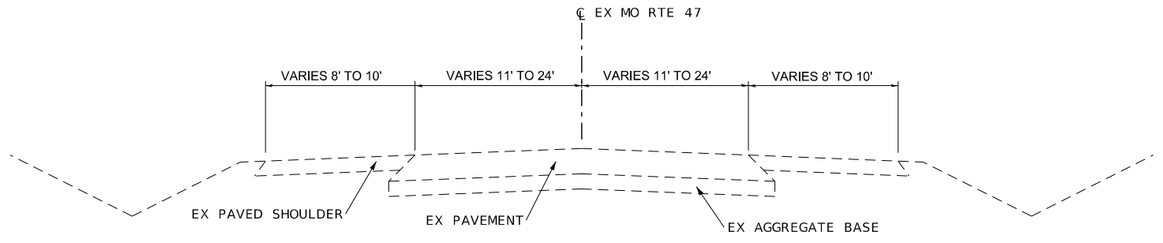
BOHEMIAN CHURCH ROAD
EXISTING TYPICAL SECTION



ROUTE AA
EXISTING TYPICAL SECTION



ROUTE 47
EXISTING TYPICAL SECTION
STA. 2000+00 TO STA. 2352+36



ROUTE 47
EXISTING TYPICAL SECTION
STA. 2352+36 TO STA. 2363+23.90

TYPICAL SECTIONS SHEETS
SHEET 1 OF 9

STATE OF MISSOURI
JEFFREY R. RENSING
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PROFESSIONAL ENGINEER

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DATE PREPARED
8/26/2025

ROUTE	STATE
47	MO
DISTRICT	SHEET NO.
NE	2

COUNTY
LINCOLN

JOB NO.
JNE0003

CONTRACT ID.
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PROJECT NO.
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BRIDGE NO.
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DESCRIPTION	DATE
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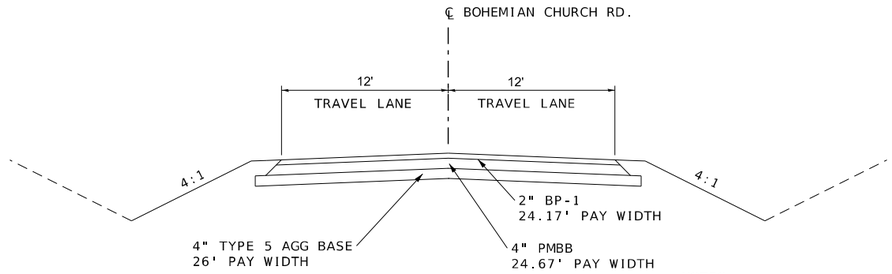
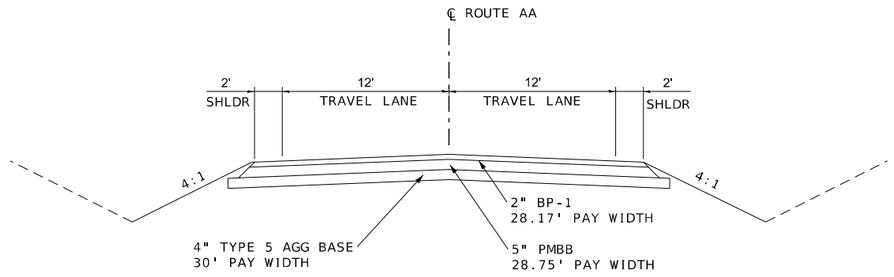
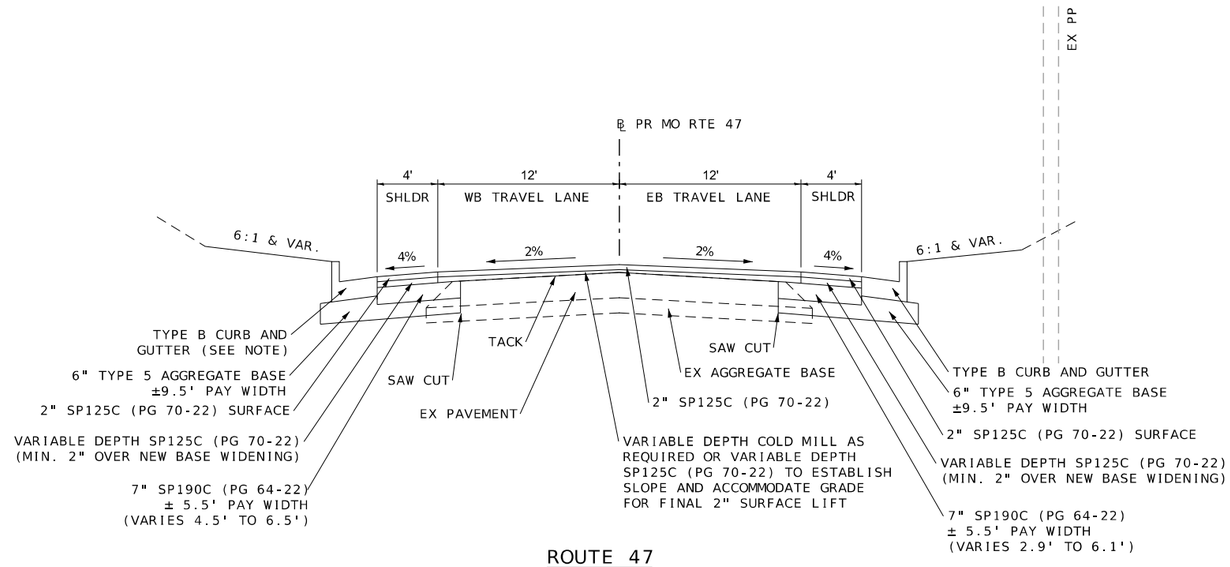


BOHEMIAN CHURCH ROAD
PROPOSED TYPICAL SECTION

NOTES:
TO BE USED FROM MO 47 TO THE RADIUS RETURN. BEYOND RADIUS RETURN, USE 8" GRAVEL (A) OR CRUSHED STONE(B) TO MATCH THE AGGREGATE ROADWAY.



ROUTE AA
PROPOSED TYPICAL SECTION



ROUTE 47
PROPOSED TYPICAL SECTION
STA. 2000+08.74 TO STA. 2030+07.32

NOTES:
ON THE LEFT SIDE, CURB AND GUTTER ENDS AT STA. 2026+72.57. BEGIN 8' SHOULDER ON LEFT SIDE.

GUTTER OUTLETS ARE PAID FOR AS CONCRETE GUTTER TYPE A.

SAW CUT 6" IN FROM EXISTING EOP FOR CLEAN CONSTRUCTION JOINT. THE DISTANCE FROM CENTERLINE IS APPROXIMATELY 10'-6" AND VARIES WITH THE ROAD WIDTH AND CENTERLINE LOCATION RELATIVE TO THE ROAD.

VARIABLE DEPTH COLDMILLING WILL BE REQUIRED IN HAWK POINT TO ACHIEVE THE REQUIRED OVERLAY THICKNESS AND MEET THE CURB ELEVATIONS. SKIP MILLING IS ANTICIPATED, SEE THE COLDMILLING SCHEDULE FOR THE APPROXIMATE AREAS AND LOCATIONS.

TYPICAL SECTIONS SHEETS
SHEET 2 OF 9

STATE OF MISSOURI
JEFFREY R. RENSING
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PROFESSIONAL ENGINEER

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DATE PREPARED 8/26/2025

ROUTE	STATE
47	MO
DISTRICT	SHEET NO.
NE	2

COUNTY LINCOLN
JOB NO. JNE0003
CONTRACT ID. .
PROJECT NO. .
BRIDGE NO. .

DESCRIPTION	DATE
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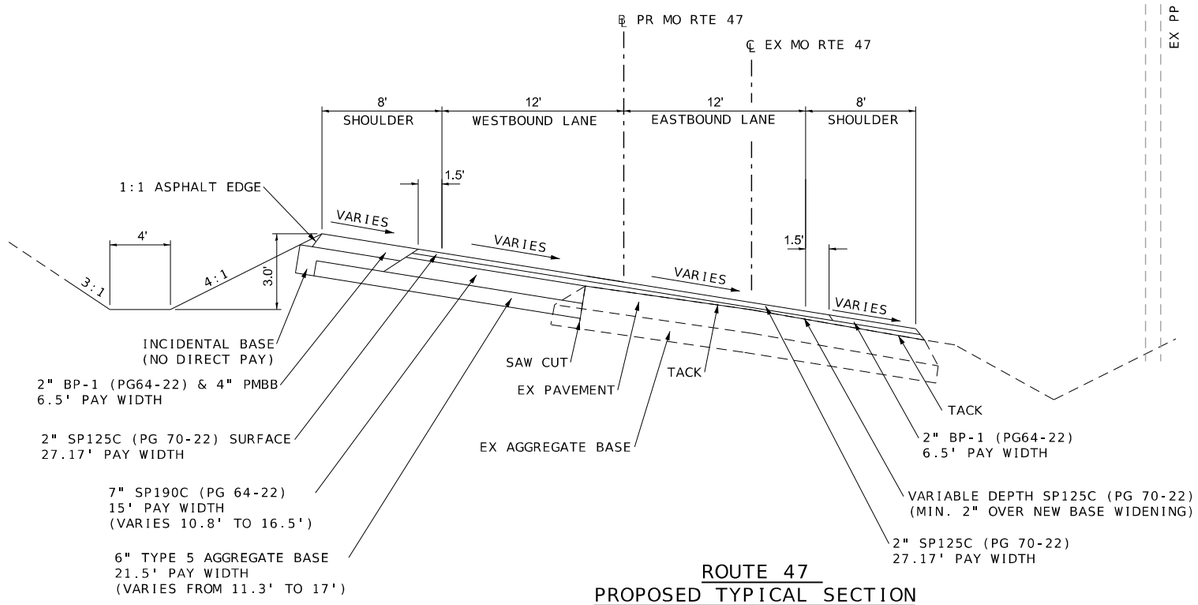
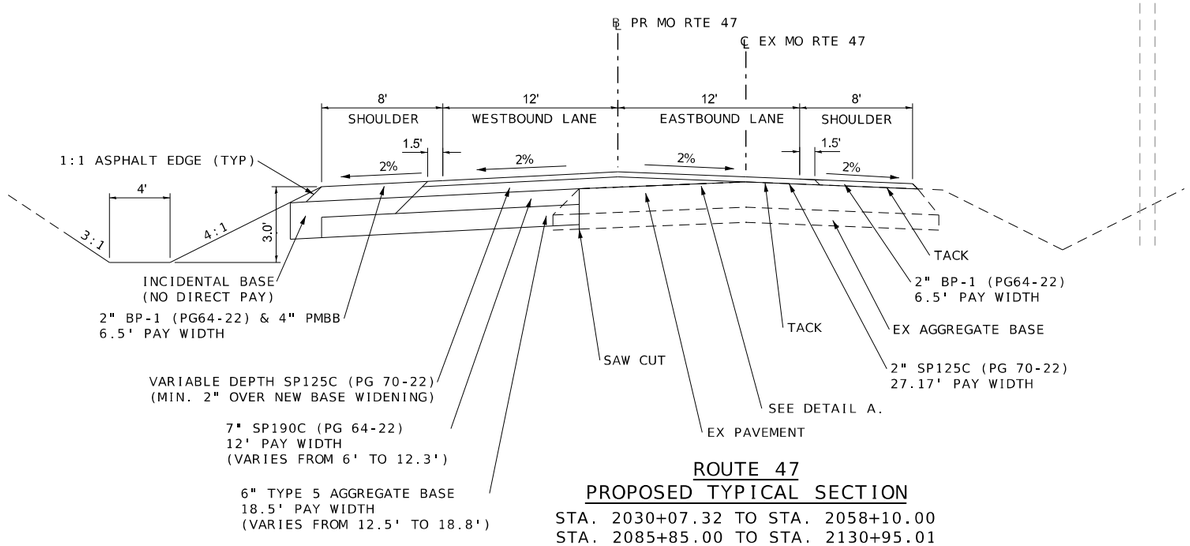


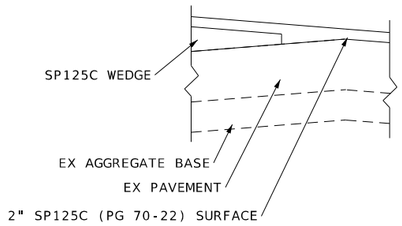
ROUTE 47
PROPOSED TYPICAL SECTION

STA. 2130+95.01 TO STA. 2134+50.00
STA. 2165+95.35 TO STA. 2167+10.00



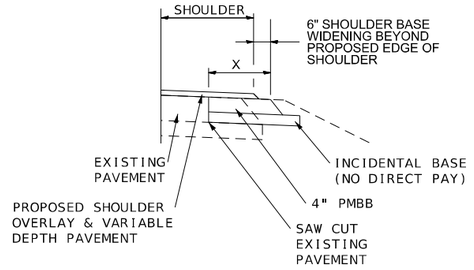
ROUTE 47
PROPOSED TYPICAL SECTION

STA. 2030+07.32 TO STA. 2058+10.00
STA. 2085+85.00 TO STA. 2130+95.01
STA. 2147+31.99 TO STA. 2165+95.35
STA. 2195+50.00 TO STA. 2215+82.07



DETAIL A

TO BE USED THROUGHOUT THE PROJECT, AS NEEDED, WHERE AN ASPHALT WEDGE IS ENCOUNTERED TO ENSURE MINIMUM LIFT THICKINESS OF 2" AND MAINTAIN THE REQUIRED CROSS SLOPE.



SHOULDER WIDENING DETAIL

TO BE USED WHERE EXISTING PAVEMENT IS NARROWER THAN PROPOSED SHOULDER

STATION	STATION	"X" (FT)	OFFSET
2030+07	2033+00	7.0-2.0	RT
2037+00	2039+00	2.5	RT
2039+00	2058+10	2.5	RT
2093+00	2098+00	2.0	RT
2098+00	2099+62	2.0	RT
2100+14	2103+00	2.0	RT
2116+00	2127+00	2.0	RT
2131+00	2134+50	2.5	RT

TYPICAL SECTIONS SHEETS
SHEET 3 OF 9

STATE OF MISSOURI
JEFFREY R. RENSING
NUMBER PE-2006012376
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED: 8/26/2025
ROUTE: 47 | STATE: MO
DISTRICT: NE | SHEET NO.: 2
COUNTY: LINCOLN
JOB NO.: JNE0003
CONTRACT ID.: .
PROJECT NO.: .
BRIDGE NO.: .

DESCRIPTION	DATE
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Belleville, IL 62220
618.416.4600
St. Charles
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St. Charles, MO 63301
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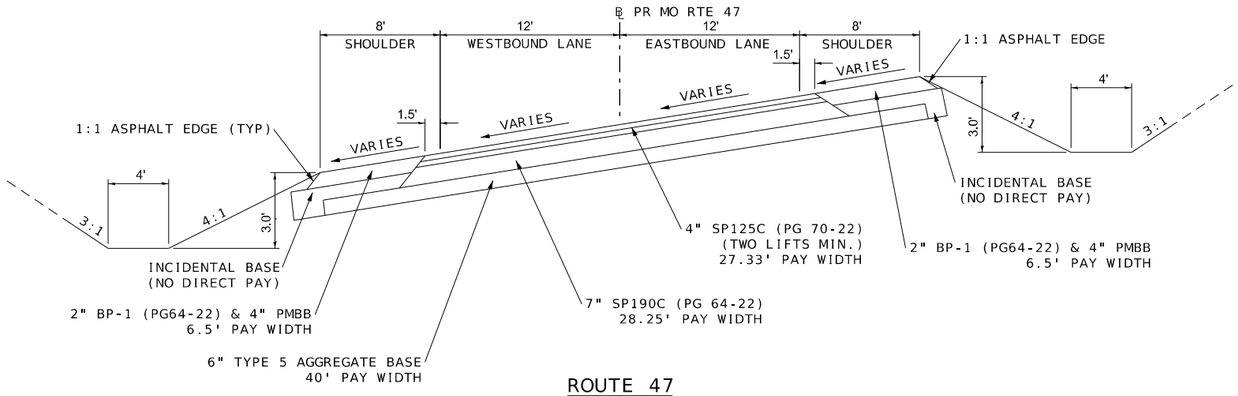
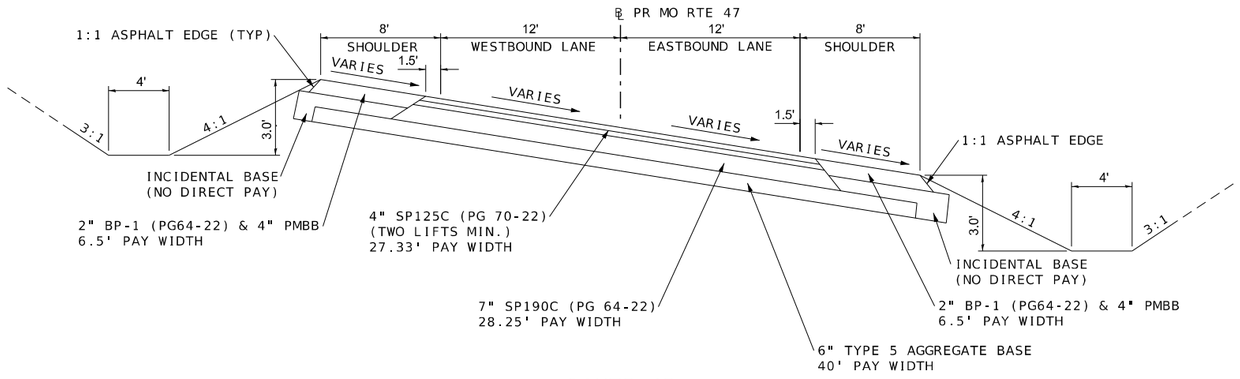


ROUTE 47
PROPOSED TYPICAL SECTION

STA. 2141+19.23 TO STA. 2146+15.00
STA. 2186+04.07 TO STA. 2194+81.20



ROUTE 47
PROPOSED TYPICAL SECTION

STA. 2134+50.00 TO STA. 2137+11.32
STA. 2167+10.00 TO STA. 2175+49.66

TYPICAL SECTIONS SHEETS
SHEET 4 OF 9

STATE OF MISSOURI
JEFFREY R. RENSING
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ROUTE	STATE
47	MO
DISTRICT	SHEET NO.
NE	2

COUNTY
LINCOLN

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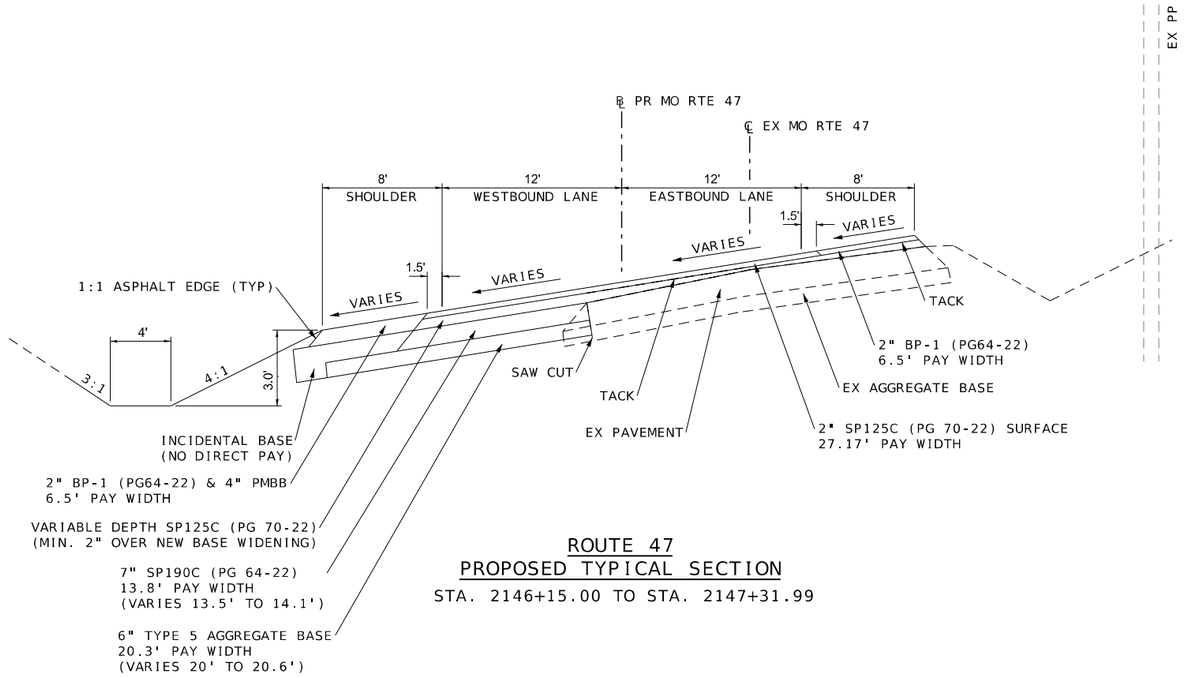
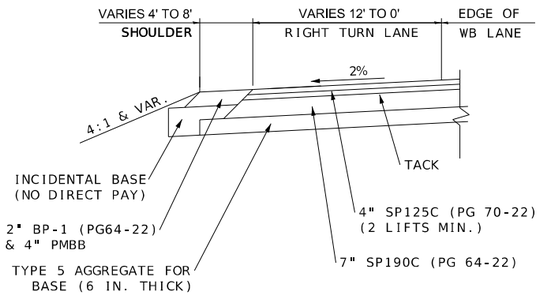
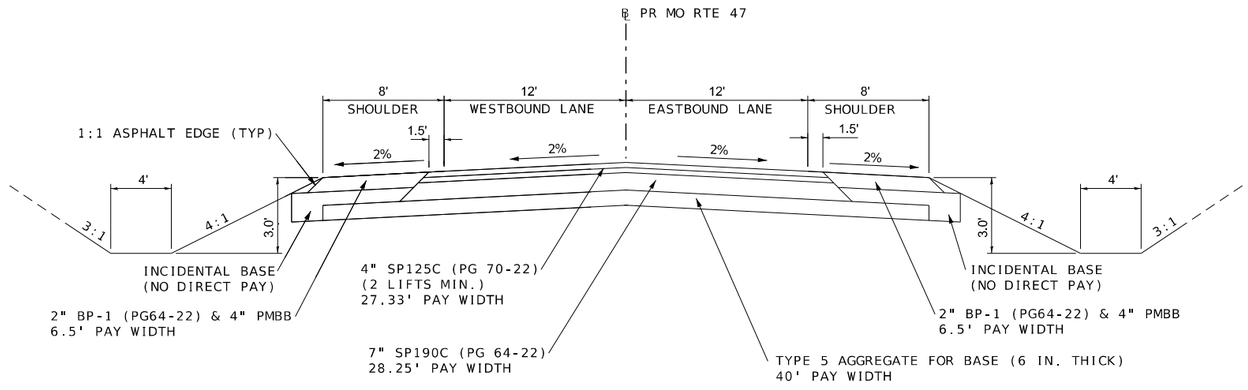


ROUTE 47
PROPOSED TYPICAL SECTION
STA. 2146+15.00 TO STA. 2147+31.99



RIGHT TURN LANE DETAIL
LANE FULL 12' WIDTH
STA. 2182+26.83 TO STA. 2185+20.10
LANE TAPER
12' AT STA. 2185+20.10 TO 0' STA. 2187+00.10



ROUTE 47
PROPOSED TYPICAL SECTION
STA. 2058+10.00 TO STA. 2085+85.00
STA. 2137+11.32 TO STA. 2141+19.23
STA. 2175+49.66 TO STA. 2186+04.07
STA. 2194+81.20 TO STA. 2195+50.00

TYPICAL SECTIONS SHEETS
SHEET 5 OF 9

STATE OF MISSOURI
JEFFREY R. RENSING
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PROFESSIONAL ENGINEER

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DATE PREPARED 8/26/2025
ROUTE 47 | STATE MO
DISTRICT NE | SHEET NO. 2
COUNTY LINCOLN
JOB NO. JNE0003
CONTRACT ID. .
PROJECT NO. .
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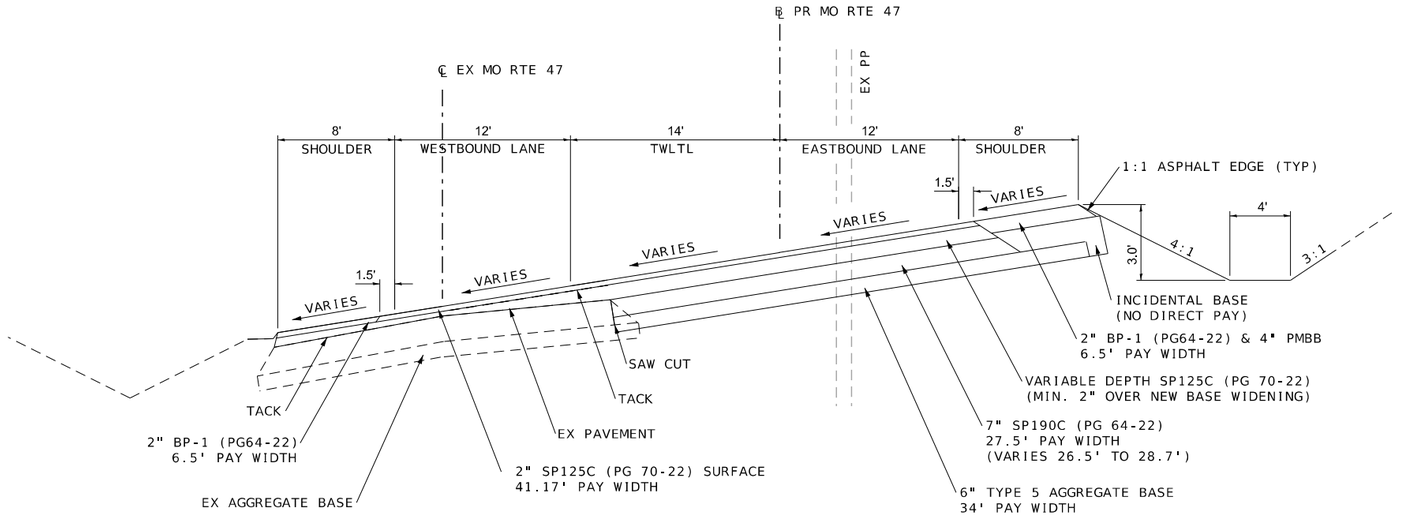
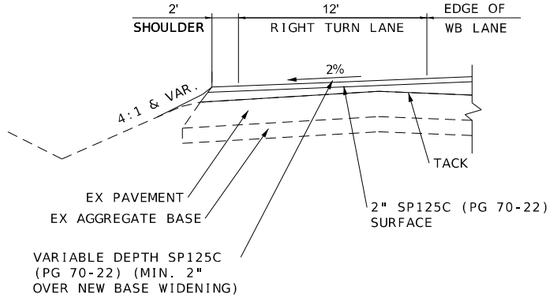
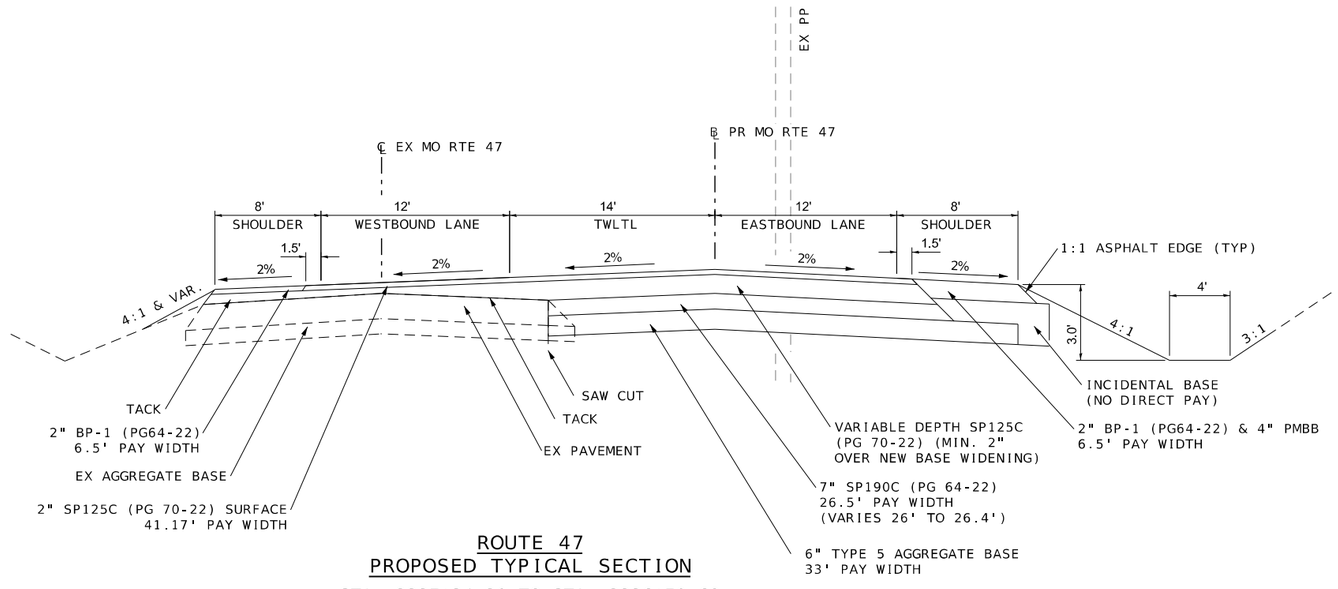
OATES ASSOCIATES



ROUTE 47
PROPOSED TYPICAL SECTION
STA. 2236+70.69 TO STA. 2244+91.32



RIGHT TURN LANE DETAIL
LANE FULL 12' WIDTH
STA. 2264+71.55 TO STA. 2267+46.51
LANE TAPER
12' AT STA. 2267+46.51 TO 0' STA. 2269+27.82



ROUTE 47
PROPOSED TYPICAL SECTION
STA. 2227+34.20 TO STA. 2236+70.69
STA. 2244+91.32 TO STA. 2252+05.53
STA. 2258+97.37 TO STA. 2266+25.73

NOTE: TRANSITION FROM TWO LANE ROAD TO 3 LANE ROAD FROM STA. 2215+52.82 TO STA. 2228+04.99

TYPICAL SECTIONS SHEETS
SHEET 6 OF 9

STATE OF MISSOURI
JEFFREY R. RENSING
NUMBER PE-2006012376
PROFESSIONAL ENGINEER

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47	MO
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NE	2

COUNTY: LINCOLN
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CONTRACT ID.:
PROJECT NO.:
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DESCRIPTION	DATE

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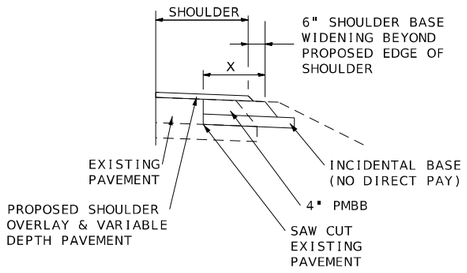
MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

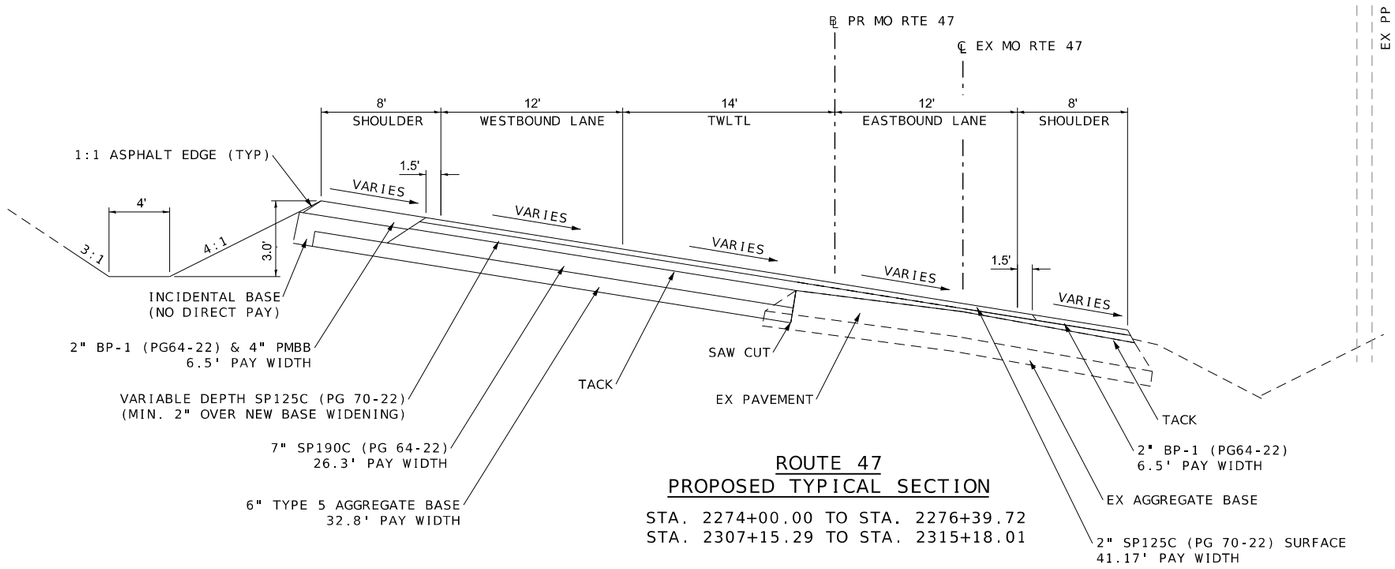
OATES ASSOCIATES
St. Louis: 720 Olive, Suite 700, St. Louis, MO 63101, 314.588.8381
St. Charles: 820 South Main, Suite 309, St. Charles, MO 63301, 636.493.6277
Collinsville: 100 Lamar Court, Suite 1, Collinsville, IL 62234, 618.345.2200
Belleville: 1 South Church, Suite 200, Belleville, IL 62220, 618.416.4888
www.oatesassociates.com
MISSOURI DESIGN FIRM PE-001166



SHOULDER WIDENING DETAIL

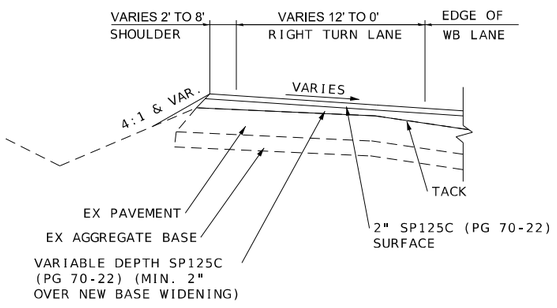
TO BE USED WHERE EXISTING PAVEMENT IS NARROWER THAN PROPOSED SHOULDER

STATION	STATION	"X" (FT)	OFFSET
2274+00	2282+00	4.0	RT
2310+00	2312+00	4.0	RT



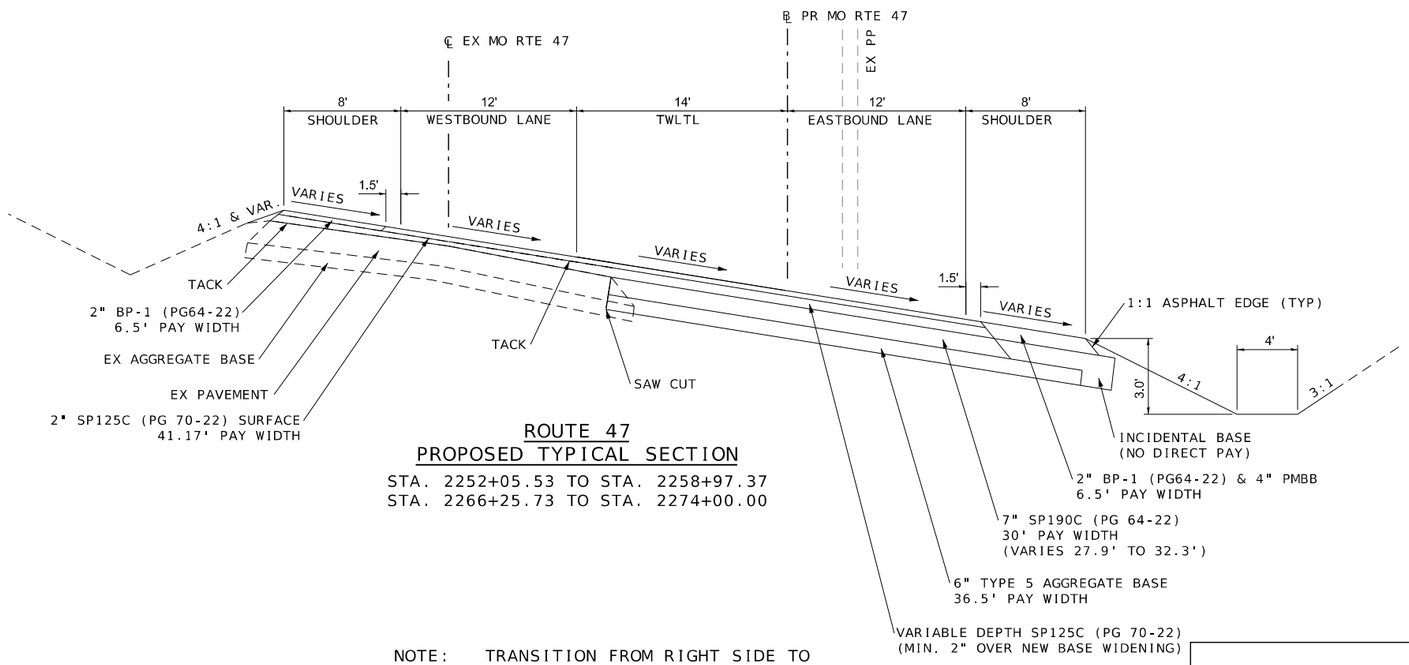
ROUTE 47
PROPOSED TYPICAL SECTION

STA. 2274+00.00 TO STA. 2276+39.72
STA. 2307+15.29 TO STA. 2315+18.01



RIGHT TURN LANE DETAIL

LANE FULL 12' WIDTH
STA. 2264+71.55 TO STA. 2267+46.51
LANE TAPER
12' AT STA. 2267+46.51 TO 0' STA. 2269+27.82



ROUTE 47
PROPOSED TYPICAL SECTION

STA. 2252+05.53 TO STA. 2258+97.37
STA. 2266+25.73 TO STA. 2274+00.00

NOTE: TRANSITION FROM RIGHT SIDE TO LEFT SIDE WIDENING FROM STA. 2269+27.82 TO STA. 2274+00.00

TYPICAL SECTIONS SHEETS
SHEET 7 OF 9

STATE OF MISSOURI
JEFFREY R. RENSING
NUMBER PE-2006012376
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED 8/26/2025

ROUTE	STATE
47	MO
DISTRICT	SHEET NO.
NE	2

COUNTY: LINCOLN
JOB NO.: JNE0003
CONTRACT ID.:
PROJECT NO.:
BRIDGE NO.:

DESCRIPTION	DATE

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

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
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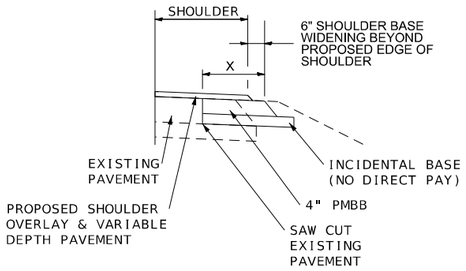
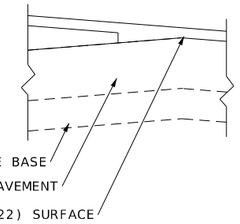
MISSOURI DESIGN FIRM PE-001166
OATES ASSOCIATES



SHOULDER WIDENING DETAIL

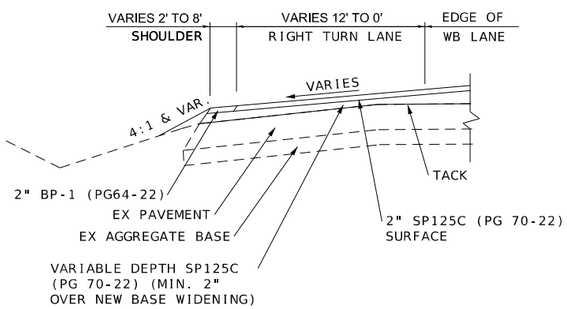
TO BE USED WHERE EXISTING PAVEMENT IS NARROWER THAN PROPOSED SHOULDER

STATION	STATION	"X" (FT)	OFFSET
2316+00	2319+00	2.0	RT
2323+00	2336+83	2.5	RT
2339+00	2341+60	4.5	RT
2343+61	2348+00	2.0	RT



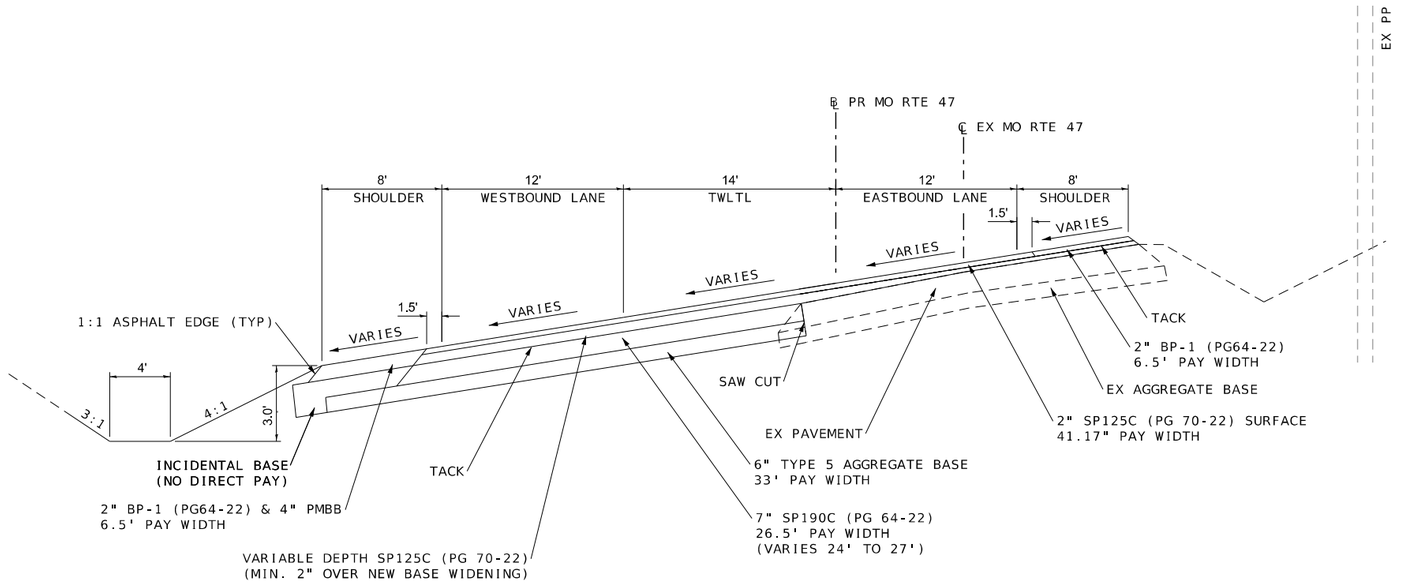
DETAIL A

TO BE USED THROUGHOUT THE PROJECT, AS NEEDED, WHERE AN ASPHALT WEDGE IS ENCOUNTERED TO ENSURE MINIMUM LIFT THICKINESS OF 2" AND MAINTAIN THE REQUIRED CROSS SLOPE.



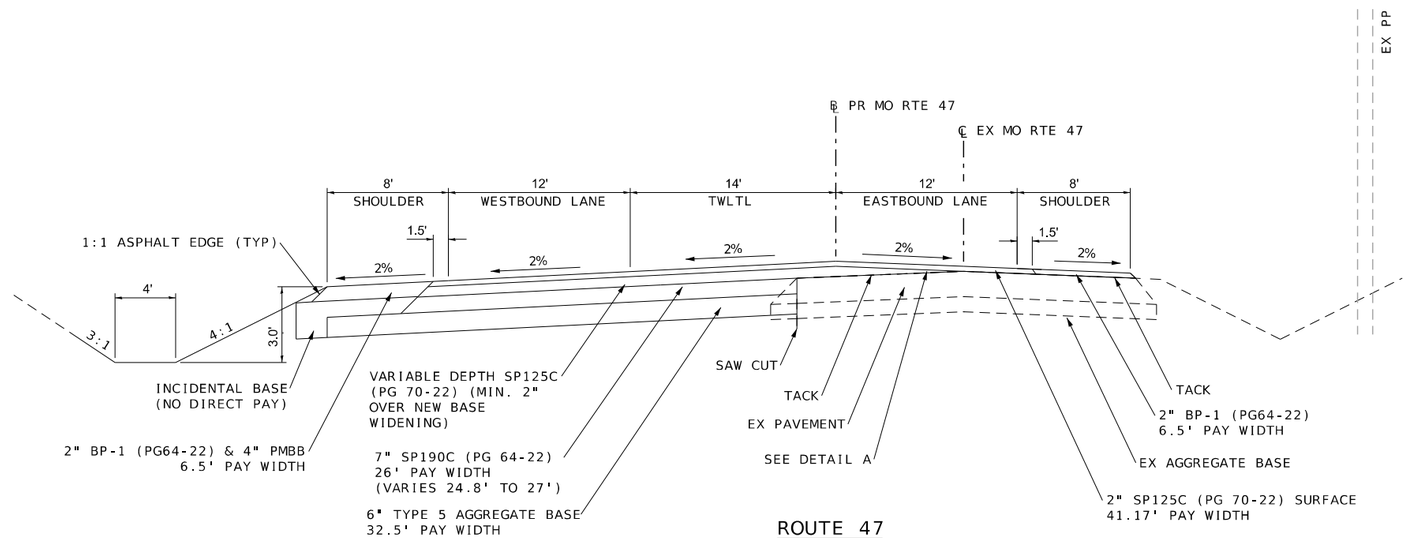
RIGHT TURN LANE DETAIL

LANE FULL 12' WIDTH
STA. 2283+47.59 TO STA. 2285+56.74
LANE TAPER
12' AT STA. 2285+56.74 TO 0' STA. 2287+36.74



ROUTE 47
PROPOSED TYPICAL SECTION

STA. 2276+96.80 TO STA. 2284+01.83
STA. 2289+80.95 TO STA. 2296+81.38
STA. 2334+66.54 TO STA. 2343+19.34



ROUTE 47
PROPOSED TYPICAL SECTION

STA. 2276+39.72 TO STA. 2276+96.80
STA. 2284+01.83 TO STA. 2289+80.95
STA. 2296+81.38 TO STA. 2307+15.29
STA. 2315+18.01 TO STA. 2334+66.54
STA. 2343+19.34 TO STA. 2348+67.67

TYPICAL SECTIONS SHEETS
SHEET 8 OF 9

STATE OF MISSOURI
JEFFREY R. RENSING
NUMBER PE-2006012376
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED 8/26/2025
ROUTE 47 | STATE MO
DISTRICT NE | SHEET NO. 2
COUNTY LINCOLN
JOB NO. JNE0003
CONTRACT ID.
PROJECT NO.
BRIDGE NO.

DESCRIPTION | DATE

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MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
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JEFFERSON CITY, MO 65102
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OATES ASSOCIATES
MISSOURI DESIGN FIRM PE-001166

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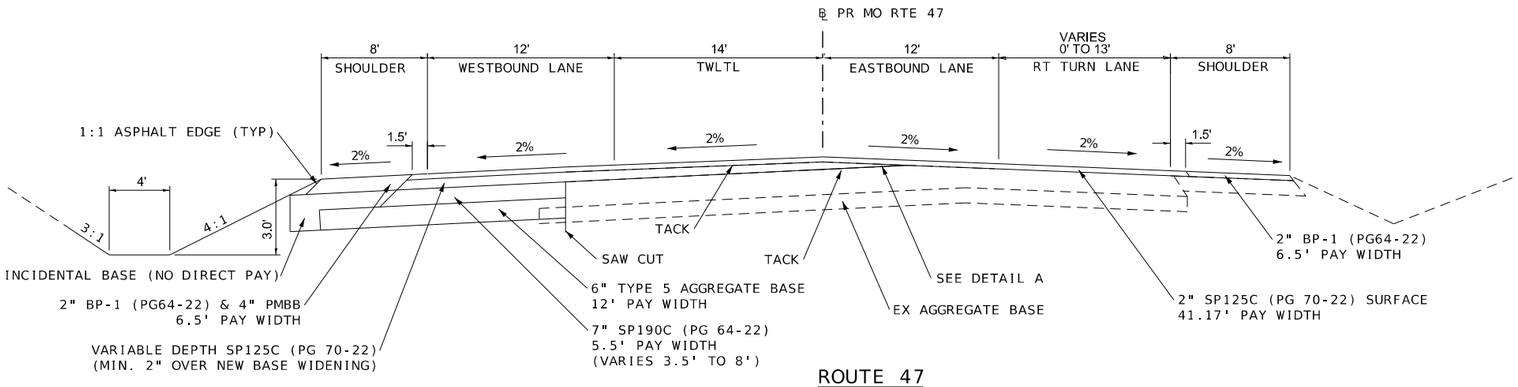
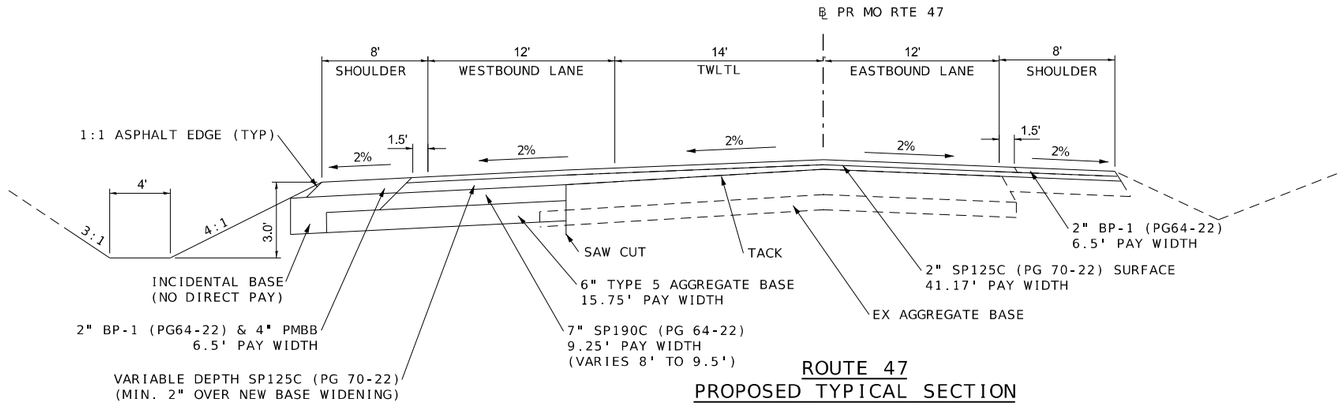
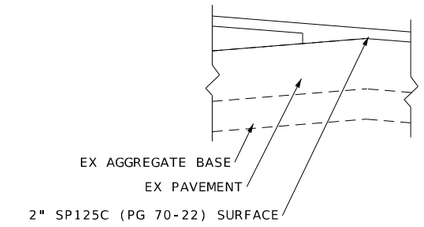


ROUTE 47
PROPOSED TYPICAL SECTION
STA. 2360+93.70 TO STA. 2363+23.90



ROUTE 47
PROPOSED TYPICAL SECTION
STA. 2359+49.79 TO STA. 2360+93.70



DETAIL A

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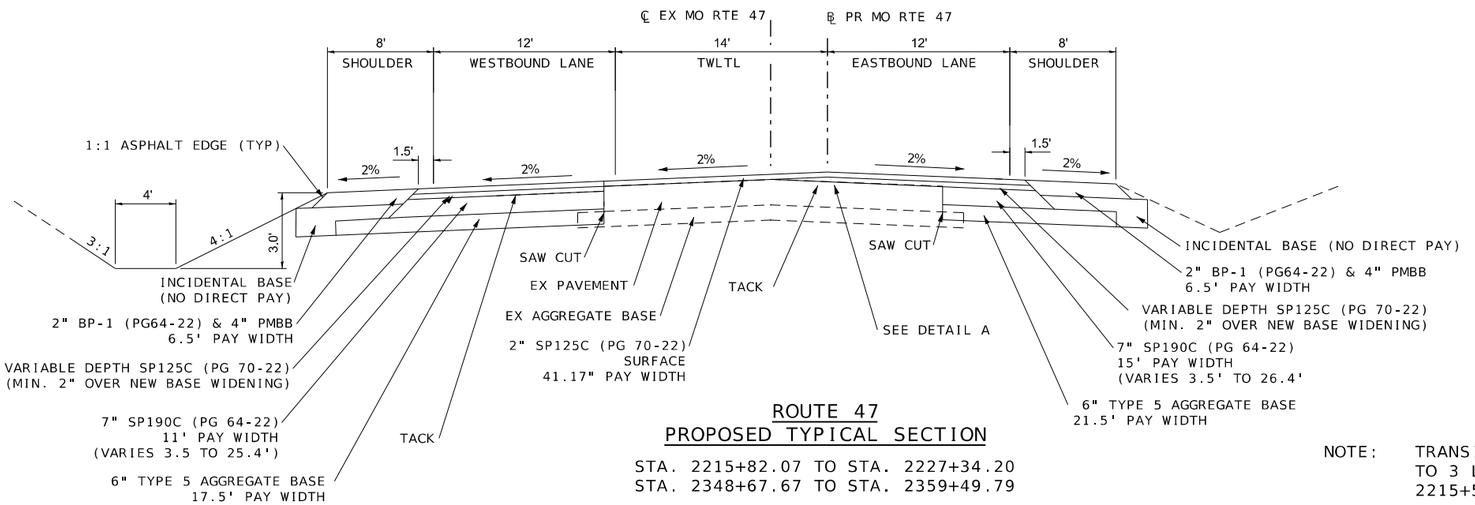

ROUTE 47
PROPOSED TYPICAL SECTION
STA. 2215+82.07 TO STA. 2227+34.20
STA. 2348+67.67 TO STA. 2359+49.79

NOTE: TRANSITION FROM TWO LANE ROAD TO 3 LANE ROAD FROM STA. 2215+52.82 TO STA. 2228+04.99

TYPICAL SECTIONS SHEETS
SHEET 9 OF 9

STATE OF MISSOURI
JEFFREY R. RENSING
NUMBER PE-2006012376
PROFESSIONAL ENGINEER

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DATE PREPARED 8/26/2025

ROUTE	STATE
47	MO
DISTRICT	SHEET NO.
NE	2

COUNTY: LINCOLN
JOB NO.: JNE0003
CONTRACT ID.:
PROJECT NO.:
BRIDGE NO.:

DESCRIPTION	DATE

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MISSOURI DESIGN FIRM PE-001166

REMOVAL OF IMPROVEMENTS (1 OF 5)

REMOVAL SHEET	STATION	STATION	OFFSET	LENGTH (LF)	AREA (SQYD)	EACH (EA)	REMARKS
PHASE 1-1							
1	2000+12	2000+16	LT/RT	119			EXIST. CULVERT
1	2000+14	2000+56	RT	43			EXIST. CULVERT
1	2000+18		RT			1	EXIST. SIGN
1	2000+22		RT			1	EXIST. SIGN
1	2000+39		RT			1	EXIST. SIGN
1	2000+55		LT			1	EXIST. SIGN
1	2001+34		LT	40			EXIST. CULVERT
1	2001+58		LT			1	EXIST. MAILBOX
1	2001+72		RT			1	EXIST. SIGN
1	2001+98		RT			1	EXIST. SIGN
1	2002+11	2002+12	LT	41			EXIST. FENCE
1	2002+51		LT		56		EXIST. PCC/AGG ENTRANCE
1	2003+24		RT			1	EXIST. SIGN
1	2003+84		LT			1	EXIST. STAIRS
1	2004+03		LT			1	EXIST. MAILBOX
1	2004+40		LT			1	EXIST. SIGN
1	2005+70		LT		209		EXIST. PCC. ENTRANCE
1	2006+27	2008+45	LT	264			EXIST. FENCE
1	2009+29		RT			1	EXIST. SIGN
1	2006+59		LT			1	EXIST. MAILBOX
1	2006+63		LT			1	EXIST. SIGN
1	2006+64		LT			1	EXIST. MAILBOX
1	2006+94		RT		312		EXIST. HMA ENTRANCE
1	2008+02		LT			1	EXIST. MAILBOX
1	2009+45		LT			2	EXIST. MAILBOX
1	2009+85		RT		81		EXIST. HMA ENTRANCE
1	2009+85		RT	27			EXIST. CULVERT
1	2010+31		LT			1	EXIST. SIGN
1	2011+28		LT	40			EXIST. CULVERT
1	2011+30		RT		110		EXIST. HMA ENTRANCE
1	2011+30		RT	27			EXIST. CULVERT
1	2011+55		LT			1	EXIST. MAILBOX
1	2013+47		RT			1	EXIST. SIGN
1	2013+56		RT	41			EXIST. CULVERT
1	2013+73		RT			1	EXIST. SIGN
1	2013+80		RT			1	EXIST. SIGN
1	2013+82		LT/RT	26		1	EXIST. CULVERT
2	2014+72		LT			1	EXIST. MAILBOX
2	2015+11		LT			1	EXIST. MAILBOX
2	2015+37		LT	64			EXIST. CULVERT
2	2015+81		LT			1	EXIST. MAILBOX
2	2016+23		LT			1	LANDSCAPING
2	2016+39		LT		67		EXIST. HMA ENTRANCE
2	2016+39		LT	27			EXIST. CULVERT
2	2017+22		LT			1	EXIST. MAILBOX
2	2017+41		LT		77		EXIST. PCC/AGG ENTRANCE
2	2017+41		LT	42			EXIST. CULVERT
2	2018+51		LT			1	EXIST. MAILBOX
2	2019+21		LT	26			EXIST. CULVERT
2	2019+61		LT			1	EXIST. SIGN
2	2019+61		RT			1	EXIST. SIGN
2	2020+62		LT			1	EXIST. MAILBOX
2	2020+81		LT	27			EXIST. CULVERT
2	2023+00		LT			1	INLET
2	2023+03		LT			1	EXIST. MAILBOX
2	2023+18		LT	66			EXIST. CULVERT
2	2023+18		LT		48		EXIST. PCC. ENTRANCE
2	2027+15		LT			1	LANDSCAPING
2	2027+36		LT			2	EXIST. SIGN
2	2027+58		LT	50			EXIST. CULVERT
2	2027+78		LT			1	EXIST. SIGN
2	2027+87		RT			1	EXIST. SIGN
2	2028+05		LT			1	EXIST. SIGN
2	2028+67		RT			1	EXIST. SIGN
3	2030+07	2033+00	RT	295			SAWCUT
3	2030+07	2033+00	RT		35		EXIST. PAVEMENT
3	2030+29		RT			1	EXIST. SIGN
3	2030+38		LT/RT	26			EXIST. CULVERT
3	2030+45		RT			1	EXIST. SIGN
3	2032+20		RT				EXIST. SIGN
3	2032+22		LT				EXIST. SIGN
3	2037+00	2039+00	RT	205			SAWCUT
3	2037+00	2039+00	RT		39		EXIST. PAVEMENT

REMOVAL OF IMPROVEMENTS (2 OF 5)

REMOVAL SHEET	STATION	STATION	OFFSET	LENGTH (LF)	AREA (SQYD)	EACH (EA)	REMARKS
PHASE 1-2							
3	2039+00	2058+10	RT	1,931			SAWCUT
3	2039+00	2085+85	RT		6,835		EXIST. PAVEMENT
3	2040+10		LT		340		EXIST. PCC. ENTRANCE
3	2040+35		RT			1	EXIST. SIGN
3	2040+37		LT			1	EXIST. SIGN
4	2055+09		LT	40			EXIST. CULVERT
4	2055+49	2056+60	LT	154			FENCE
4	2055+55		LT			1	EXIST. MAILBOX
4	2056+75		LT	10			EXIST. CULVERT
4	2056+80		LT	8			EXIST. CULVERT
4	2056+80		RT			1	EXIST. SIGN
4	2056+85		LT/RT	26			EXIST. CULVERT
4	2057+03		RT			1	EXIST. SIGN
4	2057+07		LT			1	EXIST. SIGN
4	2057+13	2064+00	RT	697			FENCE
5	2065+41		LT			1	POST
5	2066+63		RT			1	EX. UTILITY POLE
5	2067+13		LT	42			EXIST. CULVERT
5	2067+46		LT			1	EXIST. SIGN
5	2067+67		RT	71			EXIST. CULVERT
5	2068+50		RT			1	EXIST. SIGN
5	2068+98		LT			2	EXIST. SIGN
5	2069+23		LT	62			EXIST. CULVERT
5	2069+23		LT		567		EXIST. ASPHALT STREET
5	2070+06		LT/RT	43			EXIST. CULVERT
5	2073+59		LT			1	EXIST. MAILBOX
5	2074+73		RT	20			EXIST. CULVERT
5	2074+81	2075+11	RT	30			FENCE
5	2075+10		LT			1	EXIST. SIGN
5	2075+15		LT			1	EXIST. SIGN
5	2077+56	2078+18	RT	62			FENCE
6	2078+27		LT/RT	34			EXIST. CULVERT
6	2078+58		RT			1	EXIST. SIGN
6	2080+22		LT/RT	43			EXIST. CULVERT
6	2080+76		LT			1	EXIST. SIGN
6	2081+93		LT	27			EXIST. CULVERT
6	2082+18		RT	31			EXIST. CULVERT
6	2085+85		LT/RT	21			SAWCUT
6	2093+00	2098+00	RT	505			SAWCUT
6	2093+00	2098+00	RT		35		EXIST. PAVEMENT
7	2096+74	2098+00	LT	126			FENCE
PHASE 1-3							
7	2098+00	2098+90	LT	90			FENCE
7	2098+00	2099+62	RT	165			
7	2098+00	2099+62	RT		14		
7	2099+17		LT	26			EXIST. CULVERT
7	2099+88		RT		120		EXIST. ASPHALT STREET
7	2099+88		RT	42			EXIST. CULVERT
7	2100+04		RT			1	EXIST. SIGN
7	2100+06		RT			1	EXIST. SIGN
7	2100+14	2103+00	RT	290			SAWCUT
7	2100+14	2103+00	RT		5		EXIST. PAVEMENT
7	2100+20		RT			1	EXIST. SIGN
7	2100+23		RT			1	EXIST. SIGN
7	2100+36		LT	41			EXIST. CULVERT
7	2101+90	2103+01	LT	157			FENCE
7	2102+06		LT			1	EXIST. SIGN
7	2102+56		LT/RT	36			EXIST. CULVERT
7	2103+89		LT			1	EXIST. MAILBOX
7	2105+64		LT			1	EXIST. SIGN
7	2105+90		LT	41			EXIST. CULVERT
7	2106+04		LT			1	EXIST. MAILBOX
7	2105+98	2110+58	LT	509			FENCE
8	2110+16		LT			1	EXIST. MAILBOX
8	2112+31		LT			1	EXIST. MAILBOX
8	2112+81		LT			1	EXIST. MAILBOX
8	2114+19	2114+26	LT	16			FENCE
8	2116+00	2127+00	RT	1,105			SAWCUT
8	2116+00	2127+00	RT		98		EXIST. PAVEMENT
8	2117+08		LT			1	EXIST. MAILBOX

QUANTITIES
SHEET 1 OF 11

STATE OF MISSOURI
JEFFREY R. RENSING
NUMBER PE-2006012376
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED 8/26/2025

ROUTE	STATE
47	MO

DISTRICT	SHEET NO.
NE	3

COUNTY: LINCOLN
JOB NO.: JNE0003
CONTRACT ID.:
PROJECT NO.:
BRIDGE NO.:

DESCRIPTION	DATE

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MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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MISSOURI DESIGN FIRM PE-001166

REMOVAL OF IMPROVEMENTS (3 OF 5)

REMOVAL SHEET	STATION	STATION	OFFSET	LENGTH (LF)	AREA (SQYD)	EACH (EA)	REMARKS
8	2117+22		LT	31			EXIST. CULVERT
8	2117+68	2120+32	LT	277			FENCE
8	2118+84		LT/RT	31			EXIST. CULVERT
8	2120+40		LT			1	EXIST. SIGN
8	2120+41		LT			1	EXIST. SIGN
8	2120+59		LT		167		EXIST. ASPHALT STREET
8	2120+59		LT	40			EXIST. CULVERT
8	2120+80		LT			1	EXIST. SIGN
8	2122+55		LT			1	EXIST. MAILBOX
8	2125+40		LT/RT	28			EXIST. CULVERT
9	2127+74		RT			1	EXIST. SIGN
9	2129+26		LT	27			EXIST. CULVERT
9	2129+55		RT			1	EXIST. SIGN
9	2130+55		LT				EXIST. MAILBOX
9	2130+71		LT	27			EXIST. CULVERT
9	2131+00	2134+50	RT	355			SAWCUT
9	2131+00	2134+50	RT		47		EXIST. PAVEMENT
9	2131+41	2136+58	LT/RT			9	EXIST. CHEVRON SIGNS
9	2134+50		LT/RT	22			SAWCUT
9	2134+50	2146+15	RT		2,814		EXIST.PAVEMENT
9	2137+15		RT			1	EXIST. FLARED END SECTION
9	2137+17		RT	29			EXIST. CULVERT
9	2137+20		RT			1	EXIST. FLARED END SECTION
9	2137+10	2141+20	RT			7	EXIST. CHEVRON SIGNS
10	2142+39		RT	22			EXIST. CULVERT
10	2142+49		RT			1	EXIST. MAILBOX
10	2143+98		LT			1	EXIST. SIGN
10	2146+15		RT	22			SAWCUT
10	2147+64	2147+68	LT	6		2	EXIST. FENCE AND POSTS
10	2147+95		LT	34			EXIST. CULVERT
10	2148+02	2148+04	LT	13		2	EXIST. FENCE AND POSTS
10	2148+15		LT			1	EXIST. CONC. POST
PHASE 1-3							
11	2164+90		LT			1	EXIST. UTILITY POLE
11	2165+79		LT			1	EXIST. CONC. POST
11	2165+82		RT	50			EXIST. CULVERT
11	2165+97		LT	28			EXIST. CULVERT
11	2166+09		LT			1	EXIST. CONC. POST
11	2167+10		RT	22			SAWCUT
11	2167+10	2195+50	LT/RT		7,218		EXIST. PAVEMENT
11	2173+00		LT			1	EXIST. SIGN
12	2174+40		LT	39			EXIST. CULVERT
12	2174+57		LT			1	EXIST. SIGN
12	2174+80		LT			1	EXIST. SIGN
12	2180+34		LT			1	EXIST. SIGN
12	2180+89		LT			4	EXIST. CHEVRON SIGNS
12	2181+06		LT			1	EXIST. SIGN
12	2181+37		LT			1	EXIST. SIGN
12	2181+55		LT			1	EXIST. SIGN
13	2182+15	2184+41	LT			4	EXIST. CHEVRON SIGNS
13	2182+40		LT			1	EXIST. SIGN
13	2182+57		LT			1	EXIST. SIGN
13	2184+02		LT	41			EXIST. CULVERT
13	2184+88	2187+21	RT			4	EXIST. CHEVRON SIGNS
13	2187+06		RT			1	EXIST. SIGN
13	2187+44		RT			1	EXIST. SIGN
13	2187+68		LT/RT	43			EXIST. CULVERT
13	2187+98		RT			1	EXIST. SIGN
14	2191+79		LT			1	EXIST. SIGN
14	2193+46		LT			1	EXIST. SIGN
14	2194+65		LT/RT	45			EXIST. CULVERT
14	2195+50		LT/RT	21			SAWCUT
14	2202+87		LT	27			EXIST. CULVERT
14	2203+00		LT			1	EXIST. SIGN
15	2208+24	2208+30	LT	16			EXIST. DECORATIVE FENCE
15	2208+28		RT			1	EXIST. UTLITYPOLE
15	2208+43		RT	17			EXIST. CULVERT
15	2208+50		LT	34			EXIST. CULVERT
15	2208+69		LT			2	EXIST. MAILBOX
15	2209+01		RT			1	EXIST. SIGN
15	2209+05		LT			1	EXIST. FLARED END SECTION
15	2209+05		RT			1	EXIST. FLARED END SECTION
15	2209+05		LT/RT	35			EXIST. CULVERT
15	2209+13		LT			1	EXIST. SIGN
15	2216+14		LT			1	EXIST. SIGN
16	2224+16		LT			1	EXIST. SIGN

REMOVAL OF IMPROVEMENTS (4 OF 5)

REMOVAL SHEET	STATION	STATION	OFFSET	LENGTH (LF)	AREA (SQYD)	EACH (EA)	REMARKS
PHASE 2-1							
16	2227+80		LT			1	EXIST. SIGN
16	2228+04		LT	121			EXIST. CULVERT
16	2228+04		LT		155		EXIST.PAVEMENT
16	2228+25		LT			1	EXIST. SIGN
16	2228+92		LT/RT	36			EXIST. CULVERT
16	2234+43		RT			1	EXIST. SIGN
16	2235+74		RT			1	EXIST. UTILITY POLE
16	2236+21		RT			1	EXIST. SIGN
17	2240+56		LT			1	EXIST. SIGN
17	2240+74		LT	24			EXIST. CULVERT
17	2240+84		LT		266		EXIST. CONCRETE STREET
17	2241+11		LT			1	EXIST. SIGN
17	2242+59		RT		486		EXIST. ASPHALT STREET
17	2242+77		RT			2	EXIST. SIGN
17	2245+64		LT			1	EXIST. SIGN
17	2249+07		LT	16			EXIST. CULVERT
17	2249+72		LT	36			EXIST. CULVERT
18	2258+31		LT	40			EXIST. CULVERT
18	2260+42		LT			1	EXIST. UTILITY POLE
18	2264+03		LT			1	EXIST. SIGN
18	2264+11		LT	32			EXIST. CULVERT
18	2264+28		LT	131			EXIST. CULVERT
18	2264+28		LT		220		EXIST. CONCRETE STREET
18	2264+49		LT			1	EXIST. SIGN
18	2268+77		LT			1	EXIST. UTILITY POLE
18	2269+24		RT			1	EXIST. SIGN
18	2269+50		LT			1	EXIST. FENCE POST
18	2269+52		LT	39			EXIST. CULVERT
19	2272+05		LT			2	EXIST. MAILBOX
19	2272+16		LT			1	EXIST.CONC.POST
19	2272+26		LT	42			EXIST. CULVERT
19	2273+10		RT			1	EXIST. SIGN
19	2273+12		LT/RT	30			EXIST. CULVERT
19	2273+14		LT			1	EXIST. SIGN
19	2274+00	2282-00	RT	805			SAWCUT
19	2274+00	2282-00	RT		180		EXIST. PAVEMENT
19	2274+67		LT	16			EXIST. CULVERT
19	2276+74		RT	43			EXIST. CULVERT
PHASE 2-2							
19	2282+77		LT			1	EXIST. SIGN
19	2282+90		RT		139		EXIST. PAVEMENT
19	2282+90		RT	72			EXIST. CULVERT
19	2282+90		LT		238		EXIST. PAVEMENT
19	2282+90		LT	45			EXIST CULVERT
19	2283+05		LT			1	EXIST. SIGN
19	2283+21		LT			1	EXIST. SIGN
19	2283+19	2288-64	LT	687			FENCE
19	2284+41	2284-62	LT			5	FENCE POSTS
20	2286+14	2286+14	LT	8			EXIST. CURB
20	2286+39		LT	60			EXIST. CULVERT
20	2286+39		LT		127		EXIST. PCC ENTRANCE
20	2286+64	2286-64	LT	9			EXIST. CURB
20	2286+83	2287-61	LT			15	EXIST.CONC.POST
20	2286+84		LT			1	EXIST. SIGN
20	2289+12	2309-96	LT	2,089		2	EXIST. FENCE AND POSTS
20	2289+40		LT/RT	29			EXIST. CULVERT
20	2289+60		RT	42			EXIST. CULVERT
20	2289+70	2289-73	LT	11			EXIST. FENCE
20	2293+73		RT		93		EXIST. PAVEMENT
20	2293+94		RT			1	EXIST. SIGN
21	2293+95		LT			1	EXIST. SIGN
21	2304+09		LT	35			EXIST. CULVERT
21	2304+32		LT			1	EXIST. SIGN
21	2304+34		LT			1	EXIST. SIGN
21	2304+34	2304-60	LT	80			EXIST. FENCE
21	2304+44		RT			1	EXIST. MAILBOX
21	2306+40		RT		354		EXIST. CONCRETE STREET AND MEDIAN
21	2306+58		RT			1	EXIST. SIGN
21	2306+89		RT			1	EXIST. SIGN
21	2308+04	2309-19	RT	115			EXIST. FENCE
21	2308+65		LT/RT	30			EXIST. CULVERT
21	2310+00	2312-00	RT	205			SAWCUT

QUANTITIES
SHEET 2 OF 11

STATE OF MISSOURI
JEFFREY R. RENSING
NUMBER PE-2006012376
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED 8/26/2025

ROUTE	STATE
47	MO
DISTRICT	SHEET NO.
NE	3

COUNTY: LINCOLN
JOB NO.: JNE0003
CONTRACT ID.:
PROJECT NO.:
BRIDGE NO.:

DESCRIPTION	DATE

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

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

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MISSOURI DESIGN FIRM PE-001166

H:\P\222102 - Route 47 Pavement, Safety, and Shoulder Improvements\CADD\Microstation\CADD Drawings\JNE0003 - sht-schedules.dgn 5:59:23 PM 8/26/2025

REMOVAL OF IMPROVEMENTS (5 OF 5)

REMOVAL SHEET	STATION	STATION	OFFSET	LENGTH (LF)	AREA (SQYD)	EACH (EA)	REMARKS
21	2310+00	2312+00	RT		24		EXIST. PAVEMENT
21	2311+99		LT	26			EXIST. CULVERT
21	2312+14		LT			1	EXIST. MAILBOX
21	2315+56		LT			1	EXIST. SIGN
21	2316+00	2319+00	RT	305			SAWCUT
21	2316+00	2319+00	RT		41		EXIST. PAVEMENT
22	2318+71		LT			1	EXIST. SIGN
22	2323+00	2336+79	RT	1,385			SAWCUT
22	2323+00	2336+79	RT		274		EXIST . PAVEMENT
22	2323+96		LT			1	EXIST. SIGN
22	2324+15				110		EXIST. CONCRETE STREET
22	2324+15		LT	27			EXIST. CULVERT
22	2327+18		RT			1	EXIST. SIGN
22	2327+21		LT			1	EXIST. SIGN
22	2330+12		RT			1	EXIST. SIGN
22	2330+17		RT			1	EXIST. SIGN
22	2330+96		LT			1	EXIST. SIGN
22	2331+00		RT			1	EXIST. SIGN
23	2334+18	2334+34	LT	85			FENCE
23	2334+31		LT			1	EXIST. SIGN
23	2335+52		RT	40			EXIST. CULVERT
23	2336+07		LT			1	EXIST. MAILBOX
23	2336+38	2336+41	LT	38			FENCE
23	2336+38		LT			1	EXIST. MAILBOX
23	2336+42		LT			1	EXIST. MAILBOX
23	2336+39		LT	64			EXIST. CULVERT
PHASE 2-3							
23	2336+67	2337+10	RT	67			EXIST. CURB
23	2337+36		RT	184			EXIST. CULVERT
23	2337+36		RT		444		EXIST. PAVEMENT
23	2337+58	2337+98	RT	75			EXIST. CURB
23	2337+95		RT			1	EXIST. SIGN
23	2339+00	2341+60	RT	265			SAWCUT
23	2339+00	2341+60	RT		34		EXIST. PAVEMENT
23	2340+44		RT	171			EXIST. CULVERT
23	2340+44		RT		228		EXIST. PCC. ENTRANCE
23	2341+31		LT			1	EXIST. SIGN
23	2342+50		RT		470		EXIST. CONCRETE STREET AND MEDIAN
23	2342+68		RT			1	EXIST. SIGN
23	2342+86		LT			1	EXIST. SIGN
23	2343+27		LT			2	EXIST. MAILBOX
23	2343+36		LT			1	EXIST. SIGN
23	2343+61	2348+00	RT	442			SAWCUT
23	2343+61	2348+00	RT		56		EXIST. PAVEMENT
23	2343+92		LT	220			EXIST. CULVERT
23	2343+92		LT		775		EXIST. CONCRETE STREET
23	2344+37		LT			2	EXIST. SIGN
23	2344+49	2350+74	LT	623		3	EXIST. FENCE AND POSTS
23	2348+19		LT			1	EXIST. FLARED END SECTION
23	2349+06		LT			1	EXIST. SIGN
24	2350+20	2363+25	LT		1,306		EXIST. HMA SHCULDER
24	2350+22		LT			1	EXIST. UTILITY POLE
24	2351+33		LT			1	EXIST. MAILBOX
24	2351+49		LT		32		EXIST. HMA ENTRANCE
24	2352+36	2359+50	LT/RT		702		EXIST. HMA SHCULDER
24	2353+23		RT			1	EXIST. SIGN
24	2353+55		LT			1	EXIST. MAILBOX
24	2355+80		RT			1	EXIST. SIGN
24	2357+82		RT			1	EXIST. SIGN
24	2358+86		LT			1	EXIST. SIGN
24	2359+99		LT			1	EXIST. FLARED END SECTION
			PAY TOTAL	1 LUMP SUM			

BOX CULVERTS

STATION	OFFSET	CULVERT 3' X 2' LF	4' X 2.5' LF	4' X 3' LF	4'X4.2' LF	5' X 3' LF	6' X 4' LF	MODIFIED PIPE COLLAR FOR BOX CULVERTS EA	ROCK LINING CY	CLASS 4 EXCAVATION CY	REMARKS
2030+35.9	LT/RT					81			64	74	EMBEDDED 1'
2056+75.0	LT/RT						98		56	167	EMBEDDED 1'
2070+04.4	LT/RT						185		56	346	EMBEDDED 1'
2102+53.4	LT/RT					88			77	115	
2137+20.5	LT/RT					90			37	142	
2174+43.3	LT/RT					94			44	295	
2209+05.9	LT/RT						98		51	115	
2273+12.1	LT/RT			100					18	104	EMBEDDED 1'
2308+68.9	LT/RT	101							9	188	BLANKET QUANTITY FOR DS END
2348+19.6	LT		45					1	36	219	EXTENSION
2360+18.7	LT				34			1	28	31	EXTENSION
	SUBTOTAL	101	45	100	34	353	381	2	476	1796	
	PAY TOTAL	101	45	100	34	353	381	2		1796	

NOTES:
1. SEE PLANS AND CROSS SECTIONS FOR DIMENSION AND LIMITS

CLEARING AND GRUBBING

STATION	STATION	OFFSET	CLEARING AND GRUBING ACRES	REMARKS
2006+17	2008+67	LT	0.06	TREES AND BRUSH
2011+72	2012+22	LT	0.02	2 TREES
2012+50	2013+00	LT	0.02	4 TREES
2013+00	2014+50	RT	0.10	TREES AND BRUSH
2013+50	2014+00	LT	0.05	TREES AND BRUSH
2014+10	2014+60	LT	0.01	1 TREE (4")
2026+45	2026+55	LT	0.03	1 TREE (12")
2028+50	2029+00	RT	0.01	1 TREE
2055+48	2056+93	LT	0.18	TREES AND BRUSH
2056+64	2057+35	RT	0.06	TREES AND BRUSH
2058+57	2064+10	RT	0.11	24 TREES
2067+95	2068+45	LT	0.01	1 TREE
2069+02	2072+22	RT	0.40	TREES AND BRUSH
2069+47	2072+33	LT	0.52	TREES AND BRUSH
2072+53	2081+80	LT	1.06	TREES AND BRUSH
2072+65	2073+45	RT	0.06	TREES AND BRUSH
2073+56	2074+82	RT	0.02	3 TREES
2077+56	2079+89	RT	0.30	TREES AND BRUSH
2096+30	2096+81	LT	0.06	TREES AND BRUSH
2101+50	2103+25	RT	0.10	TREES AND BRUSH
2101+90	2103+00	LT	0.12	TREES AND BRUSH
2115+56	2116+06	LT	0.01	1 TREE
2117+33	2117+96	LT	0.06	TREES AND BRUSH
2118+01	2119+83	RT	0.07	TREES AND BRUSH
2136+61	2137+61	RT	0.02	TREES AND BRUSH
2138+07	2138+41	LT/RT	0.07	TREES AND BRUSH
2172+00	2175+51	LT	0.33	TREES AND BRUSH
2186+00	2188+81	RT	0.20	TREES AND BRUSH
2187+22	2188+35	LT/RT	0.18	TREES AND BRUSH
2193+87	2195+28	RT	0.10	TREES AND BRUSH
2194+48	2194+88	LT	0.06	TREES AND BRUSH
2202+84	2206+84	LT	0.18	TREES AND BRUSH
2207+81	2209+37	LT	0.06	TREES AND BRUSH
2208+18	2209+68	RT	0.07	TREES AND BRUSH
2216+14	2216+36	LT	0.02	TREES AND BRUSH
2225+44	2227+00	LT/RT	0.04	TREES AND BRUSH
	PHASE 1 SUBTOTAL		4.8	
2227+00	2230+12	LT/RT	0.21	TREES AND BRUSH
2249+00	2250+33	LT	0.12	TREES AND BRUSH
2287+29	2310+90	LT	1.26	TREES AND BRUSH
2315+24	2315+74	LT	0.01	1 TREE
2324+18	2334+79	LT	0.07	TREES AND BRUSH
2335+23	2335+73	LT	0.01	1 TREE
2335+88	2336+38	LT	0.01	1 TREE
2345+45	2348+58	LT	0.61	TREES AND BRUSH
2353+92	2355+90	RT	0.09	TREES AND BRUSH
	PHASE 2 SUB-TOTAL		2.4	
	PAY TOTAL		7	

REMOVAL OF IMPROVEMENT UTILITIES

	6-INCH PE GAS LINE ESTIMATE (LF)	4-INCH PE GAS LINE ESTIMATE (LF)	2-INCH PE GAS LINE ESTIMATE (LF)	10-INCH PVC WATER LINE ESTIMATE (LF)	8-INCH PVC WATER LINE ESTIMATE (LF)	6-INCH PVC WATER LINE ESTIMATE (LF)	LIGHTING POLE ESTIMATE (EA)	OWNER
	5142							AMEREN GAS
		112						AMEREN GAS
			131					AMEREN GAS
				2900				CITY OF TROY
					2700			CITY OF HAWK POINT
						1000		CITY OF HAWK POINT
						500		LINCOLN COUNTY PWSD #2
							1	PHILLIPS 66 GAS STATION PROPERTY OWNER
SUBTOTAL	5142	112	131	2900	2700	1500	1	
PAY TOTAL	1 LUMP SUM							

NOTES:
UTLITY REMOVAL SHALL BE IN COORDINATION WITH THE UTILITY OWNER. WATER LINE REMOVAL INCLUDES REMOVAL OF VALVES, HYDRANTS, AND METERS.
THERE WILL BE NO DIRECT PAYMENT FOR THE REMOVAL OF THE UTILITES LISTED ABOVE. THE COST IS INLCUDED IN THE REMOVAL OF IMPROVEMENTS PAY ITEM.

QUANTITIES
SHEET 3 OF 11

STATE OF MISSOURI
JEFFREY R. RENSING
NUMBER PE-2006012376
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED
1/12/2026

ROUTE	STATE
47	MO
DISTRICT	SHEET NO.
NE	3

COUNTY
LINCOLN

JOB NO.
JNE0003

CONTRACT ID.
.

PROJECT NO.
.

BRIDGE NO.
.

DATE	DESCRIPTION
.	.

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

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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Belleville, IL 62220
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MISSOURI DESIGN FIRM PE-001166

CULVERTS

STATION	OFFSET	SIZE	TRENCH WIDTH	DEPTH	LENGTH	PIPE CULVERTS												FLARED END SECTION							SAFETY SLOPE END SECTION				CLASS 3 EXCAVATION	ROCK LINING	REMARKS
						GROUP A							GROUP C					GROUP A				GROUP C										
						15 IN	18 IN	24 IN	30 IN	38IN x 24IN ELLIPTICAL	42 IN	48 IN	15 IN	18 IN	24 IN	30 IN	36 IN	15 IN	18 IN	42 IN	48 IN	15 IN	18 IN	24 IN	24 IN	30 IN	38 X 24 IN ELLIPTICAL	36 IN			
						LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	EA	EA	EA	EA	EA	EA	EA	EA	EA	EA	EA	CY	CY	
2000+29.7	RT/LT	30.00	5.50		124					124																	2		206	18	38" X 24" ELLIPTICAL (30" EQUIV.)
2013+56.2	RT	18.00	4.50	3.00	36									36									2						18		
2013+88.0	RT/LT	30.00	5.50		69				69																	2			91	41	INCLUDES TO ROADSIDE CULVERT AND GUTTER OUTLET
2014+10.5	LT	15.00	4.25	2.50	22								22									2							9		
2027+58.5	LT	24.00	5.00	3.50	68										68										2				44		LINCOLN TRAIL
2055+08.8	LT	15.00	4.25	3.00	51								51									2							24		
2067+12.8	LT	24.00	5.00	2.50	56										56										2				26		
2067+67.4	RT	15.00	4.25	2.50	163								163									2							64		
2069+23.2	LT	24.00	5.00	6.00	94										94									2					104		BOHEMIAN CHURCH ROAD
2078+28.9	RT/LT	42.00	6.50		124						124								2										124	35	
2081+92.8	LT	15.00	4.25	2.50	54								54									2							21		
2082+17.8	RT	15.00	4.25	2.50	51								51									2							20		
2099+17.4	LT	15.00	4.25	3.00	49								49									2							23		
2099+87.9	RT	18.00	4.50	2.00	66									66									2						22		FRED NORTON
2100+35.9	LT	18.00	4.50	3.00	51									51									2						26		
2105+90.0	LT	18.00	4.50	3.50	58									58									2						34		
2117+00.0	LT	24.00	5.00	2.50	50										50										2				23		
2118+82.1	RT/LT	30.00	5.50		71					71																	2		82	18	38" X 24" ELLIPTICAL (30" EQUIV.)
2120+59.1	LT	24.00	5.00	2.50	50										50										2				23		AUBUCHON ROAD
2129+40.0	LT	24.00	5.00	2.50	47										47										2				22		
2130+71.2	LT	24.00	5.00	2.50	55										55										2				25		
2142+38.0	RT	18.00	4.50	2.00	64									64									2						21		
2147+95.0	LT	18.00	4.50	2.50	47									47									2						20		
2165+82.0	RT	36.00	6.00	2.50	75											75										2			42		GILES RD.
2165+97.5	LT	36.00	6.00	3.00	44											44										2			29		
2181+55.1	LT	18.00	4.50	3.00	49		49												2										25		RTE AA
2187+57.0	RT/LT	48.00	7.00		91							91									2								138	36	
2194+65.2	RT/LT	30.00	5.50		70				70																	2			72	16	
2202+90.4	RT	15.00	4.25	3.00	40								40									2							19		
2203+01.2	LT	15.00	4.25	2.50	48								48									2							19		
2208+43.0	RT	18.00	4.50	1.00	38									38									2						6		
2208+50.0	LT	15.00	4.25	1.00	72								72									2							11		
2228+04.2	LT	18.00	4.50	4.00	108									108									2						72		BENNINGTON DRIVE
2228+71.7	RT/LT	30.00	5.50		95				95										1								1		165	8	
2240+67.5	RT	15.00	4.25	2.50	47								47									2							18		
2242+57.1	RT	15.00	4.25	2.50	63								63									2							25		LINNS MILL ROAD
2249+07.5	RT	15.00	4.25	2.50	48								48									2							19		
2249+71.9	RT/LT	24.00	5.00		90			90																	2				139	6	
2258+31.2	RT	15.00	4.25	1.00	51								51									2							8		
2264+11.1	RT	15.00	4.25	2.00	50								50									2							16		
2264+27.7	LT	15.00	4.25	2.50	122								122									2							48		WESTBOROUGH DRIVE
2269+52.0	RT	15.00	4.25	2.50	66								66									2	2						26		
2270+00.0	LT	18.00	4.50	2.50	38									38									2						16		
2272+26.5	LT	24.00	5.00	1.50	47										47										2				13		
2276+73.7	RT	18.00	4.50	1.50	58									58									2						15		
2282+90.1	LT	15.00	4.25	2.50	53	53												2											21		N. MOORE SCHOOL ROAD
2286+38.9	LT	15.00	4.25	2.00	71								71									2							22		
2289+40.1	RT/LT	18.00	4.50		70		70												2										35	4	
2290+48.6	RT	15.00	4.25	1.00	44								44									2							7		
2304+09.3	LT	24.00	5.00	3.00	52										52										2				29		
2308+76.5	LT	3' X 2'																											5		BMP-1 Outfall Structure
2311+99.2	LT	15.00	4.25	2.00	46								46									2							14		
2324+15.5	LT	15.00	4.25	2.50	50								50									2							20		
2336+26.4	LT	18.00	4.50	5.50	374									374										2					343		
2337+36.1	RT	18.00	4.50	3.50	211									211										2					123		MENNEMEYER ROAD
2340+43.8	RT	18.00	4.50	3.00	135									135										2					68		
2343+92.3	LT	36.00	6.00	4.00	159												159											2	141	11	MANDA COURT
2343+92.3	LT	36.00	6.00	4.00	159												159											2	141	11	MANDA COURT
2351+49.0	LT	24.00	5.00	2.50	49										49										2				23		
2353+78.8	LT	15.00	4.25	2.50	52								52									2							117		
					SUBTOTAL	53	119	90	234	195	124	91	1260	1234	568	119	318	2	5	2	2	40	28	2	20	9	4	4	3121	203	
					SUBTOTAL FROM BOX CULVERT																									476	
					PAY TOTAL	53	119	90	234	195	124	91	1260	1234	568	119	318	2	5	2	2	40	28	2	20	9	4	4	3121	679	

NOTES:
1. A LENGTH OF 6' HAS BEEN ASSUMED FOR ALL FLARED END SECTIONS WITH A DIAMETER OF 30" OR LESS
2. A LENGTH OF 8' HAS BEEN ASSUMED FOR ALL FLARED END SECTIONS WITH A DIAMTER GREATER THAN 30"
3. SEE PLANS FOR LAYOUT DIMENSIONS

CONTRACTOR FURNISHED SURVEYING AND STAKING

PAY TOTAL = 1 LUMP SUM

MOBILIZATION

PAY TOTAL = 1 LUMP SUM

QUANTITIES
SHEET 4 OF 11

STATE OF MISSOURI
JEFFREY R. RENSING
NUMBER PE-2006012376
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED 8/26/2025
ROUTE 47 | STATE MO
DISTRICT NE | SHEET NO. 3
COUNTY LINCOLN
JOB NO. JNE0003
CONTRACT ID.
PROJECT NO.
BRIDGE NO.

DESCRIPTION | DATE

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

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
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JEFFERSON CITY, MO 65102
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www.oatesassociates.com
MISSOURI DESIGN FIRM PE-001166

PAVEMENT MARKING

STATION	STATION	OFFSET	PREFORMED THERMOPLASTIC PAVEMENT MARKING, 12 IN WHITE (LF)	PREFORMED THERMOPLASTIC PAVEMENT MARKING, 24 IN. WHITE (LF)	PREFORMED THERMOPLASTIC PAVEMENT MARKING, 24 IN. YELLOW (LF)	PREFORMED THERMOPLASTIC PAVEMENT MARKING, LEFT/RIGHT ARROW (EA)	PREFORMED THERMOPLASTIC PAVEMENT MARKING, 24 IN. X 36. IN, YIELD LINE TRIANGLE (EA)	4 IN. WHITE CLASS 1 PAVEMENT MARKING PAINT (18-MIL, TYPE P BEADS) (LF)	4 IN. YELLOW CLASS 1 PAVEMENT MARKING PAINT (18-MIL, TYPE P BEADS) (LF)
2000+00	2039+00	LT/RT		28				7882	5834
2039+00	2098+00	LT/RT		45				11800	7263
2098+00	2165+00	LT/RT		39				13400	4375
2165+00	2227+00	LT/RT		78	109	3		13371	9878
2227+00	2282+00	LT/RT		108		27		11273	13597
2282+00	2337+00	LT/RT	33	69		28	8	11336	13787
2337+00	2365+00	LT/RT	107	40		10	8	5682	7764
		PAY TOTAL	140	407	109	68	16	74744	62498

PAVEMENT SCHEDULE (1 of 2)

STATION	STATION	OFFSET	TYPE 5 AGGREGATE FOR BASE (4 IN. THICK) (SQYD)	TYPE 5 AGGREGATE FOR BASE (6 IN. THICK) (SQYD)	BITUMINOUS PAVMENT MIXTURE PG64-22 (BP-1) (TON)	BITUMINOUS PAVEMENT MIXTURE PG64-22 (BASE) (TON)	ASPHALTIC CONCRETE MIXTURE PG 70-22 (SP125C MIX) (TONS)	ASPHALTIC CONCRETE MIXTURE PG 64-22 (SP190C MIX) (TONS)	TACK COAT (GAL)	GRAVEL (A) OR CRUSHED STONE (B) (TONS)	REMARKS
ROUTE 47											
2000+09	2025+73	LT		2442.0				614.0			WIDENING BASE COURSE
2000+09	2025+73	LT/RT					1043.8		1552.0		SURFACE COURSE
2000+09	2025+73	LT/RT					1044.0				VARIABLE DEPTH COURSE
2000+09	2025+73	RT		2561.0				678.0			UNDER SP190 BASE - PH 1-1 (SP190+CG)
2000+15	2000+40	LT/RT		61.0			13.1	23.1			CULVERT REPLACEMENT
2013+75	2014+00	LT/RT		61.0			13.1	23.1			CULVERT REPLACEMENT
2026+73	2030+07	RT		342.0				82.2			WIDENING BASE COURSE
2026+73	2030+07	LT		346.0	22.0	43.8		62.8			WIDENING BASE COURSE
2026+73	2030+07	LT/RT					1182		208.0		SURFACE COURSE
2026+73	2030+07	LT/RT					464.7				VARIABLE DEPTH COURSE
2030+25	2030+50	LT/RT		61.0			13.1	23.1			CULVERT REPLACEMENT
2030+07	2033+00	RT				31.4					SHOULDER EDGE WIDENING (Varies 7 to 2') - NO AGG BASE
2030+07	2039+00	LT		1801.0		139.2		459.5			WIDENING BASE COURSE
2030+07	2039+00	LT/RT			139.5		288.5		634.0		SURFACE COURSE
2030+07	2039+00	LT/RT					706.7				VARIABLE DEPTH COURSE
2037+00	2039+00	RT				12.0					SHOULDER EDGE WIDENING (2.5')- NC AGG BASE
SUBTOTAL PHASE 1-1			7675.0	161.5	226.4	3705.0	1965.9	2394.0	0.0		
2039+00	2053+10	LT		3736.0		286.1		959.5			WIDENING BASE COURSE
2039+00	2053+10	LT/RT			292.7		617.2		1350.0		SURFACE COURSE
2039+00	2053+10	LT/RT					1652.1				VARIABLE DEPTH COURSE
2039+00	2053+10	RT				114.5					SHOULDER EDGE WIDENING (2.5') - NO AGG BASE
2056+55	2058+95	LT/RT		98.0			20.9	36.9			CULVERT REPLACEMENT
2058+10	2085+85	LT/RT		12290.0	429.1	856.1	1804.5	3285.8	1966.0		FULL RECONSTRUCTION
2085+85	2093+00	LT		2638.0		189.5		696.0			WIDENING BASE COURSE
2085+85	2093+00	LT/RT			189.9		392.6		864.0		SURFACE COURSE
2085+85	2093+00	LT/RT					1098.7				VARIABLE DEPTH COURSE
2093+00	2093+00	RT				24.0					SHOULDER EDGE WIDENING (2') - NO AGG BASE
SUBTOTAL PHASE 1-2			18762.0	911.7	1470.2	5585.9	4978.2	4180.0	0.0		
2098+00	2099+62	RT				7.7					SHOULDER EDGE WIDENING (2') - NO AGG BASE
2098+00	2134+50	LT		7768.0		560.2		2047.1			WIDENING BASE COURSE
2098+00	2134+50	LT/RT			556.5		1179.5		2574.0		SURFACE COURSE
2098+00	2134+50	LT/RT					2138.8				VARIABLE DEPTH COURSE
2100+14	2103+00	RT				13.6					SHOULDER EDGE WIDENING (2') - NO AGG BASE
2102+45	2102+70	LT/RT		61.0			13.1	23.1			CULVERT REPLACEMENT
2116+00	2127+00	RT				52.8					SHOULDER EDGE WIDENING (2') - NO AGG BASE
2118+75	2113+95	LT/RT		49.0			10.5	18.4			CULVERT REPLACEMENT
2131+00	2134+50	RT				20.9					SHOULDER EDGE WIDENING (2.5') - NO AGG BASE
2134+50	2146+15	LT/RT		5179.0	182.2	363.5	757.5	1379.4	828.0		FULL RECONSTRUCTION
2146+15	2165+00	LT		4409.0		293.9		1199.1			WIDENING BASE COURSE
2146+15	2165+00	LT/RT			294.7		609.1		1340.0		SURFACE COURSE
2146+15	2165+00	LT/RT					1840.4				VARIABLE DEPTH COURSE
SUBTOTAL PHASE 1-3			17466.0	1033.4	1312.6	6549.0	4667.1	4742.0	0.0		
2165+00	2167+10	LT		520.0		32.7		144.3			WIDENING BASE COURSE
2165+00	2167+10	LT/RT			28.1		67.3		142.0		SURFACE COURSE
2165+00	2167+10	LT/RT					196.6				VARIABLE DEPTH COURSE
2167+10	2195+50	LT/RT		13221.0	406.6	803.4	2045.5	3732.5	2112.0		FULL RECONSTRUCTION
2195+50	2224+80	LT		5995.0				1508.2			WIDENING BASE COURSE FROM RECON. TO LT SIDE TRANS. 2' STUB
2195+50	2227+00	LT				475.3					END OF RECON TO END OF PH 1-4 (LT TO RT TRANSITION)
2195+50	2227+00	LT/RT			492.4		1106.4		2372.0		SURFACE COURSE
2195+50	2227+00	LT/RT					3114.8				VARIABLE DEPTH COURSE
2208+95	2209+20	LT/RT		61.0			13.1	23.1			CULVERT REPLACEMENT
2215+70	2227+00	RT				138.4					TRANSITION TO RT SIDE TO END OF PH 1-4 (LT TO RT TRANSITION)
2220+00	2227+00	RT		1800.0				456.8			WIDENING BASE COURSE FROM 2' TRANS. STUB TO END OF PH 1-4 (RT SIDE EX PAVEMENT)
SUBTOTAL PHASE 1-4			21597.0	927.1	1449.8	6544.1	5864.9	4626.0	0.0		

QUANTITIES
SHEET 5 OF 11

STATE OF MISSOURI
JEFFREY R. RENSING
NUMBER PE-2006012376
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED 8/26/2025
ROUTE 47 | STATE MO
DISTRICT NE | SHEET NO. 3
COUNTY LINCOLN
JOB NO. JNE0003
CONTRACT ID. .
PROJECT NO. .
BRIDGE NO. .

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

DESCRIPTION	DATE
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MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
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MISSOURI DESIGN FIRM PE-001166

PAVEMENT SCHEDULE (2 of 2)

STATION	STATION	OFFSET	TYPE 5 AGGREGATE FOR BASE (4 IN. THICK) (SQYD)	TYPE 5 AGGREGATE FOR BASE (6 IN. THICK) (SQYD)	BITUMINOUS PAVMENT MIXTURE PG64-22 (BP-1) (TON)	BITUMINOUS PAVEMENT MIXTURE PG64-22 (BASE) (TON)	ASPHALTIC CONCRETE MIXTURE PG 70-22 (SP125C MIX) (TONS)	ASPHALTIC CONCRETE MIXTURE PG 64-22 (SP190C MIX) (TONS)	TACK COAT (GAL)	GRAVEL (A) OR CRUSHED STONE (B) (TONS)	REMARKS
2227+00	2273+00	RT		17505.0				5480.2			WIDENING BASE COURSE FROM BEG. OF PH 2-1 TO 2' STUB TRANS. (RT SIDE OF EX PAVEMENT)
2227+00	2274+00	RT				717.5					BEG OF PH 2-1 TO TRANSITION FROM RT TO LT
2227+00	2282+00	LT/RT			862.4		2749.3		5368.0		SURFACE COURSE
2227+00	2282+00	LT/RT					10874.2				VARIABLE DEPTH COURSE
2228+60	2228+95	LT/RT		86.0			18.3	32.3			CULVERT REPLACEMENT
2249+60	2249+85	LT/RT		61.0			13.1	23.1			CULVERT REPLACEMENT
2269+21	2282+00	LT				191.8					TRANSITION FROM RT TO LT TO END OF PH 2-1
2270+10	2282+00	LT		3699.0				1092.7			WIDENING BASE COURSE FROM 2' STUB TRANS. TO END OF PH 2-1 (LT SIDE OF EX PAVEMENT)
2273+00	2273+25	LT/RT		61.0			13.1	23.1			CULVERT REPLACEMENT
2274+00	2282+00	RT				76.9					SHOULDER EDGE WIDENING (4') - NO AGG BASE
SUBTOTAL PHASE 2-1				**21412.0**	**862.4**	**986.2**	**13668.0**	**6651.4**	**5368.0**	**0.0**	
2282+00	2337+00	LT		20444.0		803.9		6451.3			WIDENING BASE COURSE FROM BEG. OF PH 2-2 TO END OF PH 2-2
2282+00	2337+00	LT/RT			799.4		2740.4		5262.0		SURFACE COURSE
2282+00	2337+00	LT/RT					7419.3				VARIABLE DEPTH COURSE
2289+30	2289+50	LT/RT		49.0			10.5	18.4			CULVERT REPLACEMENT
2308+55	2308+80	LT/RT		61.0			13.1	23.1			CULVERT REPLACEMENT
2310+00	2312+00	RT				19.0					SHOULDER EDGE WIDENING (4') - NO AGG BASE
2316+00	2319+00	RT				14.4					SHOULDER EDGE WIDENING (2') - NO AGG BASE
2323+00	2336+83	RT				82.8					SHOULDER EDGE WIDENING (2.5') - NO AGG BASE
SUBTOTAL PHASE 2-2				**20554.0**	**799.4**	**920.1**	**10183.3**	**6492.8**	**5262.0**	**0.0**	
2337+00	2351+40	LT						1423.7			WIDENING BASE COURSE FROM BEG. OF PH 2-3 TO 2' STUB TRANS. (LT SIDE OF EX PAVEMENT)
2337+00	2363+24	LT		6118.0		353.7					BEG OF PH 2-3 TO END OF PROJECT LT SIDE
2337+00	2363+24	LT/RT			361.9		1304.8		2478.0		SURFACE COURSE
2337+00	2363+24	LT/RT					2651.8				VARIABLE DEPTH COURSE
2339+00	2341+60	RT				27.7					SHOULDER EDGE WIDENING (4.5') - NO AGG BASE
2343+61	2348+00	RT				20.9					SHOULDER EDGE WIDENING (2') - NO AGG BASE
2348+67	2359+53	RT				161.0					TRANSITON FROM RT TO LT BACK TO RT NEAR THE END ON PROJECT. TYPE 5 AGG WITH INCLD. W/ SP190
2349+80	2359+53	RT		1988.0				489.0			WIDENING BASE COURSE FROM 2' STUB TRANS. RT SIDE TO 2' STUB TRANS. LT SIDE (RT SIDE OF EX PAVEMENT)
2353+70	2363+24	LT						307.9			2' STUB TRANS. LT SIDE TO END OF PROJECT (LT SIDE OF EX PAVEMENT)
SUBTOTAL PHASE 2-3				**8106.0**	**361.9**	**563.3**	**3956.6**	**2220.6**	**2478.0**	**0.0**	
RECONSTRUCTED SIDE ROADS											
BOHEMIAN CHRUCH ROAD											
2069+23			140.0		15.0	29.9			11.0	98.0	RECONSTRUCT AGGREGATE ROAD BEYOND RADIUS RETURN (8" COMPACTED AGGREGATE)
ROUTE AA											
2181+55			1107.0		113.6	283.4			84.0		
SIDE ROAD SUBTOTAL			**1247.0**	**0.0**	**128.6**	**313.3**	**0.0**	**0.0**	**95.0**	**98.0**	
ENTRANCE SUBTOTAL			**7686.7**	**0.0**	**244.0**	**368.0**	**0.0**	**0.0**	**0.0**	**1638.9**	
PAVING IRREGULARITIES ESTIMATE							**1260.0**	**840.0**			
PAY TOTAL			**8934**	**115572**	**5430.0**	**7609.9**	**51451.9**	**33680.9**	**29145.0**	**1737**	

PAVEMENT NOTES:
APPLICATION RATES USED FOR QUANTITES
BITUMINOUS PAVEMENT MIXTURE PG-64-22 (BP-1) = 1.948 TONS/CU YD COMPACTED MIXTURE
BITUMINOUS PAVEMENT MIXTURE PG-64-22 (BASE) = 1.943 TONS/CU YD COMPACTED MIXTURE
ASPHALTIC CONCRETE MIXTURE (TYPE SP125 MIX) = 1.927 TONS/CU YD COMPACTED MIXTURE
ASPHALTIC CONCRETE MIXTURE (TYPE SP190 MIX) = 1.94 TONS/CU YD COMPACTED MIXTURE
TACK COAT - 0.05 GAL / SQ YD - NEW ASPHALT & 0.08 FOR EXISTING PAVEMENT (ASSUMED 2 APPLICATIONS - ONE ON BASE AND EXISTING PAVEMENT AND ONE PRIOR TO FINAL SURFACE)
GRAVEL (A) = 0.039 TON / SQ YD / IN FOR BOHEMIAN CHURCH ROAD RECONSTRUCTION
SP125 AND SP190 QUANTITIES INCLUDE AN ESTIMATE FOR THE 1:1 WEDGE ALONG THE EDGES
PAVING IRREGULARITIES ESTIMATE 300 TONS / MILE WITH A 60% SP125 / 40% SP190 SPLIT.

WATER

STA.	STA.	SIDE	LOCATION	CLASS 3 EXCAVATION CY	GRAVEL (A) TON	6" PVC C900 LF	8" PVC C900 LF	1" SERVICE LINE CONNECTION EA	FIRE HYDRANT ASSEMBLY EA	WATER METER EA	6" GATE VALVE EA	8" GATE VALVE EA	SAMPLING PIT EA	8"x8" TAPPING SLEEVE AND VALVE EA	8" BLOWOFF ASSEMBLY EA	6" PERMANENT BLOWOFF ASSEMBLY EA	8" LINE STOP	REMARKS
2028+11	2054+77	LT	BASELINE RTE 47	1215.3	29.9		2688.3										3	GRAVEL (A) QTY AT FARM DR
2028+11	2028+14	LT	BASELINE RTE 47											1				
2028+66		LT	BASELINE RTE 47					1										CONNECTION TO PR 8" PVC C900
2031+36	2041+39	LT	BASELINE RTE 47	402.9	34.9	1009.0												GRAVEL (A) QTY AT FARM DR
2036+31		LT	BASELINE RTE 47						1			1						
2054+70		LT	BASELINE RTE 47										1	1				
2054+77		LT	BASELINE RTE 47											1				
2054+78		LT	BASELINE RTE 47												1			
2031+36		LT	BASELINE RTE 47								1							
2031+91		LT	BASELINE RTE 47					1										CONNECTION TO PR 6" PVC C900
2036+95		LT	BASELINE RTE 47					1										CONNECTION TO PR 6" PVC C900
2040+98		LT	BASELINE RTE 47								1							
2041+32		LT	BASELINE RTE 47							1								
2041+33		LT	BASELINE RTE 47					1										CONNECTION TO PR 6" PVC C900
2041+39		LT	BASELINE RTE 47													1		
			SUBTOTAL	**1618.2**	**64.8**	**1009.0**	**2688.3**	**4**	**1**	**1**	**2**	**1**	**1**	**3**	**1**	**1**	**3**	
			PAY TOTAL			**1009**	**2688**	**4**	**1**	**1**	**2**	**1**	**1**	**3**	**1**	**1**	**3**	

NOTES:
THE CLASS 3 EXCAVATION AND GRAVEL (A) QUANTITIES ARE SHOWN FOR INFORMATION ONLY AND WILL NOT BE PAID FOR DIRECTLY. COST OF THESE ITEMS ARE INCLUDED WITH THE COST OF THE WATER LINE INSTALLATION.

QUANTITIES
SHEET 6 OF 11

STATE OF MISSOURI
JEFFREY R. RENSING
NUMBER PE-2006012376
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED
8/26/2025

ROUTE	STATE
47	MO
DISTRICT	SHEET NO.
NE	3

COUNTY
LINCOLN

JOB NO.
JNE0003

CONTRACT ID.
.

PROJECT NO.
.

BRIDGE NO.
.

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

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

OATES ASSOCIATES

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St. Charles
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St. Charles, MO 63301
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Collinsville
100 Lanier Court, Suite 1
Collinsville, IL 62234
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Belleville
1 South Church, Suite 200
Belleville, IL 62220
618.416.4488

www.oatesassociates.com

MISSOURI DESIGN FIRM PE-001166

ENTRANCE (1 OF 2)

STATION	OFFSET	ENTRANCE TYPE	ENTRANCE EXISTING MATERIAL	WIDTH (FT)	LENGTH (FT)	OFFSET TO TIE IN (FT)	PAVED APPROACH, 7 IN. (SQYD)	PAVED APPROACH, 8 IN. (SQYD)	TYPE 5 AGGREGATE FOR BASE (4 IN. THICK) (SQYD)	BITUMINOUS PAVEMENT MIXTURE PG64-22, (BP-1) (TONS)	BITUMINOUS PAVEMENT MIXTURE PG64-22 (BASE) (TONS)	GRAVEL (A) OR CRUSHED STONE (B) (TONS)	MODIFIED COLDMILLING (DEPTH TRANSITIONS) (SQYD)	REMARKS
PHASE 1 ENTRANCES														
2001+29.1	RT	CE	AGG	43.0	27.8	44.0		184.7	185					
2001+33.6	LT	CE	AGG	24.0	28.0	44.0		123.7	124					
2002+42.5	RT	CE	AGG	38.0	28.0	44.0		165.5	166					
2002+50.6	LT	CE	AGG	35.0	28.0	44.0		94.2	94			16.6		
2004+14.2	LT	PE	AGG	10.0	28.0	44.0	27.6		28			3.3		
2004+14.2	RT	FE	EARTH	20.0	48.0	64.0	43.1		43			17.7		NEW ENTRANCE
2005+70.2	LT	CE	CONC	36.0	28.0	44.0		161.9	162					
2005+95.8	RT	PE	AGG	15.0	27.5	43.5		80.7	81			5.1		SHARED ENTRANCE/SHARED APRON
2005+99.1	RT	CE	AGG	15.0	27.8	40.4						5.1		SHARED ENTRANCE/APRON QTY PAID FOR 2005+95.83
2006+94.3	RT	CE	ASHPALT	95.0	21.1	37.1		259.9	260					
2008+08.2	RT	PE	AGG	23.0	18.0	34.0	45.2		45			3.0		
2009+85.4	RT	PE	ASPHALT	20.0	39.2	54.0	40.9		86	5.0	10.0			
2011+27.7	LT	PE	AGG	20.0	22.0	38.0	45.0		45			3.3		
2011+29.8	RT	PE	ASPHALT	20.0	38.0	54.0	44.3		104	7.0	14.0			
2013+56.2	RT	FE	EARTH	20.0	41.7	57.7	42.5		43			14.5		
2014+10.5	LT	PE	AGG	12.0	52.9	68.9	73.7		74			1.9		
2015+36.6	LT	PE	AGG	20.0	13.0	29.0	38.8		39					
2015+67.4	LT	PE	AGG	20.0	21.3	37.3	41.5		42			3.7		
2016+39.2	LT	PE	ASPHALT	20.0	32.0	48.0	43.8		77	4.0	8.0			
2017+40.6	LT	PE	CONC	20.0	28.0	44.0	73.1		73					
2018+35.2	LT	PE	AGG	20.0	17.0	33.0	44.5		45			1.3		
2019+23.7	LT	PE	EARTH	22.0	14.7	30.7	48.0		48					
2020+80.9	RT	FE	EARTH	20.0	29.0	45.0	41.8		42			8.1		
2020+80.9	LT	PE	AGG	20.0	38.0	54.0	44.5		45			8.2		
2023+17.9	LT	PE	CONC	20.0	15.3	31.3	41.6		42					
2027+58.5	LT	ROAD	AGG	24.0	33.0	45.0			131	14.0	28.0			LINCOLN TRAIL
SUBTOTAL (PHASE 1-1)							**779.9**	**1070.6**	**2119**	**30.0**	**60.0**	**91.8**	**0.0**	
2040+10.2	RT	PE	AGG	45.0	10.0	30.0						15.9		AGGREGATE TRANSITION, 45' AT BACK OF IMPROVEMENT
2040+10.2	LT	ROAD	CONC	48.0	32.0	44.1		208.8	209					FARM DRIVE - WIDENING SIDE
2046+00.0	RT	PE	ASPHALT	22.0	10.0	30.0				3.0			25.1	HMA TRANSITION
2048+34.3	RT	FE	EARTH	21.0	10.0	30.0						5.2		AGGREGATE TRANSITION
2055+08.8	LT	PE	AGG	20.0	45.0	65.0						35.4		WIDENING SIDE
2055+60.2	RT	FE	AGG	11.0	10.0	30.0						4.0		AGGREGATE TRANSITION
2061+15.7	RT	FE	EARTH	20.0	46.0	66.0						26.5		
2067+12.8	LT	CE	AGG	20.0	40.0	60.0						23.4		
2067+67.4	RT	CE	AGG	48.0	55.0	75.0						85.2		
2068+36.0	RT	PE	AGG	20.0	90.0	110.0						45.6		MONROE LANE
2073+78.1	RT	PE	AGG	20.0	60.0	80.0						30.7		
2074+60.0	LT	FE	EARTH	20.0	70.0	90.0						37.3		
2074+72.6	RT	PE	AGG	20.0	40.0	60.0						22.7		
2081+92.8	LT	FE	AGG	20.0	45.0	65.0						26.0		
2082+17.8	RT	PE	AGG	20.0	45.0	65.0						26.0		
2092+16.1	RT	PE	CONC	18.0	10.0	30.0				3.0			31.0	HMA TRANSITION
SUBTOTAL (PHASE 1-2)							**0**	**208.8**	**209**	**6.0**	**0.0**	**383.9**	**56.1**	**SUB PHASE 1-2 SUBTOTAL**
2099+17.4	LT	PE	AGG	20.0	85.0	105.0						41.2		
2099+87.9	RT	ROAD	ASPHALT	22.0	40.0	52.0			174	19.0	38.0			FRED NORTON ROAD
2100+35.9	LT	PE	AGG	20.0	45.0	65.0						26.0		
2103+89.0	RT	PE	AGG	13.0	10.0	30.0						11.8		AGGREGATE TRANSITION, 36' AT BACK OF IMPROVEMENT
2105+90.0	LT	PE	AGG	20.0	45.0	65.0						26.0		
2107+52.2	RT	FE	EARTH	27.0	10.0	30.0						6.7		AGGREGATE TRANSITION, 26' AT BACK OF IMPROVEMENT
2110+20.8	RT	PE	AGG	31.0	10.0	30.0						15.2		AGGREGATE TRANSITION, 49' AT BACK OF IMPROVEMENT
2112+45.3	LT	PE	AGG	20.0	45.0	65.0						26.0		
2112+59.5	RT	PE	AGG	9.0	10.0	30.0						6.7		AGGREGATE TRANSITION, 17' AT BACK OF IMPROVEMENT
2117+00.0	LT	PE	AGG	20.0	45.0	65.0						26.0		
2120+59.1	LT	ROAD	ASPHALT	23.0	38.0	50.0			156	17.0	34.0			AUBUCHON ROAD
2122+61.0	RT	PE	AGG	10.0	10.0	30.0						4.6		AGGREGATE TRANSITION, 13' AT BACK OF IMPROVEMENT
2127+50.7	RT	ROAD	AGG	28.0	35.0	47.0			152	16.0	32.0			GERDING ROAD
2129+40.0	LT	PE	AGG	20.0	40.0	59.0						23.4		
2130+71.2	LT	PE	AGG	20.0	37.5	56.8						23.0		
2142+38.0	RT	PE	AGG	30.0	42.3	62.2						35.7		
2147+95.0	LT	FE	AGG	20.0	40.0	60.0						23.4		
2152+00.0	LT	FE	EARTH	20.0	40.0	60.0						23.4		
2159+50.5	RT	FE	EARTH	16.0	10.0	30.0						4.2		AGG WEDGE, 15' AT BACK OF IMPROVEMENT
SUBTOTAL (PHASE 1-3)							**0**	**0**	**482**	**52.0**	**104.0**	**323.3**	**0.0**	**SUB PHASE 1-3 SUBTOTAL**
2165+82.1	RT	ROAD	ASPHALT	32.0	31.8	43.8		156.1	156					GILES ROAD
2165+97.5	LT	PE	AGG	20.0	40.0	60.0						23.4		
2179+24.3	RT	FE	EARTH	30.0	35.0	55.0						30.0		
2181+69.1	LT	FE	ASPHALT	20.0	50.0	62.9						97.0		ROUTE AA FIELD ENTRANCE
2182+50.0	LT	FE	EARTH	20.0	31.0	201.0						10.0		EXIST 47 FIELD ENTRANCE
2192+20.0	LT	FE	AGG	20.0	24.0	44.0						15.1		
2202+90.4	RT	FE	EARTH	20.0	21.0	41.0						13.5		
2203+01.2	LT	FE	EARTH	20.0	45.0	65.0						26.0		
2208+43.0	RT	FE	EARTH	20.0	30.4	50.4						18.4		
2208+50.0	LT	PE	AGG	20.0	56.0	67.2						39.1		SHARED ENTRANCE, 32' AT BACK OF IMPROVEMENT
2216+43.2	LT	FE	EARTH	20.0	37.6	57.6						22.2		
2217+20.8	RT	FE	AGG	20.0	36.0	56.0						21.5		
SUBTOTAL (PHASE 1-4)							**0**	**156.1**	**156**	**0.0**	**0.0**	**316.1**	**0.0**	**SUB PHASE 1-4 SUBTOTAL**
PHASE 1 TOTAL							**779.9**	**1435.5**	**2966**	**88.0**	**164.0**	**1115.1**	**56.1**	**PHASE 1 SUBTOTAL**

QUANTITIES
SHEET 7 OF 11

STATE OF MISSOURI
JEFFREY R. RENSING
NUMBER PE-2006012376
PROFESSIONAL ENGINEER
THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED 8/26/2025
ROUTE 47 | STATE MO
DISTRICT NE | SHEET NO. 3
COUNTY LINCOLN
JOB NO. JNE0003
CONTRACT ID. .
PROJECT NO. .
BRIDGE NO. .

DESCRIPTION	DATE
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Belleville 1 South Church, Suite 200 Belleville, IL 62220 618.416.4588
www.oatesassociates.com
MISSOURI DESIGN FIRM PE-001166

ENTRANCE (2 OF 2)

STATION	OFFSET	ENTRANCE TYPE	ENTRANCE EXISTING MATERIAL	WIDTH (FT)	LENGTH (FT)	OFFSET TO TIE IN (FT)	PAVED APPROACH, 7 IN. (SQYD)	PAVED APPROACH, 8 IN. (SQYD)	TYPE 5 AGGREGATE FOR BASE (4 IN. THICK) (SQYD)	BITUMINOUS PAVEMENT MIXTURE PG64-22, (BP-1) (TONS)	BITUMINOUS PAVEMENT MIXTURE PG64-22 (BASE) (TONS)	GRAVEL (A) OR CRUSHED STONE (B) (TONS)	MODIFIED COLDMILLING (DEPTH TRANSITIONS) (SQYD)	REMARKS
PHASE 2 ENTRANCES														
2228+04.2	LT	ROAD	CONC	24.0	39.0	65.0		184.3	184					BENNINGTON DRIVE
2231+85.1	LT	PE	AGG	35.0	10.0	44.0						9.3		AGGREGATE TRANSITION
2238+70.2	LT	PE	AGG	10.0	10.0	44.0						6.2		AGGREGATE TRANSITION, 17' AT BACK OF IMPROVEMENT
2240+67.5	RT	PE	AGG	20.0	50.7	70.7						28.8		
2240+84.2	LT	ROAD	CONC	34.0	28.0	54.0		194.2	194					BENJAMIN DRIVE
2242+57.1	RT	ROAD	ASPHALT	22.0	102.9	113.7			337	36.0	72.0			LINNS MILL ROAD
2248+00.0	LT	FE	CONC	25.0	10.0	44.0			130	14.0			130.0	HMA TRANSITION, 75' AT BACK OF IMPROVEMENT
2249+07.5	RT	FE	EARTH	20.0	44.7	64.7						25.9		
2258+31.2	RT	FE	EARTH	30.0	35.0	55.0						29.9		
2264+11.1	RT	FE	EARTH	28.0	35.0	55.0						28.1		
2264+27.7	LT	ROAD	CONC	26.0	36.6	74.6		220.0	220					WESTBOROUGH DRIVE
2269+52.0	RT	FE	EARTH	40.0	34.3	54.2						38.2		
2270+00.0	LT	PE	EARTH	20.0	26.0	60.0						16.1		
2272+26.5	LT	PE	AGG	20.0	42.7	76.7						24.8		
2278+73.7	RT	FE	EARTH	40.0	10.0	30.0						10.1		AGGREGATE TRANSITION
SUBTOTAL (PHASE 2-1)							**0**	**598.5**	**1066**	**50.0**	**72.0**	**217.4**	**130.0**	
2282+90.1	LT	ROAD	ASPHALT	21.0	62.8	87.7			208	22.0	44.0			MOORE SCHOOL ROAD
2282+90.1	RT	ROAD	ASPHALT	27.0	40.9	52.3			180	19.0	38.0			MOORE SCHOOL ROAD
2285+69.8	RT	CE	CONC	49.0	10.0	30.0				8.0			76.8	HMA TRANSITION, 58' AT BACK OF IMPROVEMENT
2286+38.9	LT	CE	CONC	50.0	40.5	75.0		235.0	235					
2290+48.6	RT	FE	EARTH	30.0	25.0	45.0						22.1		FULL RECONSTRUCTION
2293+72.5	RT	ROAD	ASPHALT	29.0	30.0	41.5			140	15.0	30.0			SUN SWEPT DRIVE
2296+47.3	RT	PE	AGG	12.0	10.0	30.0						9.5		AGGREGATE TRANSITION, 30' AT BACK OF IMPROVEMENT
2299+88.5	RT	CE	AGG	18.0	10.0	30.0						10.3		AGGREGATE TRANSITION, 28' AT BACK OF IMPROVEMENT
2301+26.5	RT	CE	AGG	64.0	10.0	30.0						17.3		AGGREGATE TRANSITION, 60' AT BACK OF IMPROVEMENT
2302+47.8	RT	CE	ASPHALT	40.0	10.0	30.0				7.0			63.2	HMA TRANSITION, 47' AT BACK OF IMPROVEMENT
2304+09.3	LT	FE	EARTH	20.0	46.0	80.0						26.5		
2304+69.4	RT	CE	AGG	40.0	10.0	30.0						14.8		AGGREGATE TRANSITION, 46' AT BACK OF IMPROVEMENT
2306+39.9	RT	ROAD	CONC	125.0	28.0	40.0		676.3	676					WINGATE DRIVE
2311+31.2	RT	PE	AGG	20.0	14.0	34.0						9.8		FULL RECONSTRUCTION, 20' AT BACK OF IMPROVEMENT
2311+89.2	LT	PE	AGG	20.0	48.6	80.6						26.8		
2315+96.6	RT	FE	AGG	30.0	10.0	30.0						10.4		AGGREGATE TRANSITION, 36' AT BACK OF IMPROVEMENT
2318+20.7	RT	CE	AGG	27.0	10.0	30.0						11.8		AGGREGATE TRANSITION, 34' AT BACK OF IMPROVEMENT
2319+53.6	RT	CE	ASPHALT	23.0	10.0	30.0				4.0			35.0	HMA TRANSITION, 25' AT BACK OF IMPROVEMENT
2323+59.6	RT	CE	ASPHALT	32.0	10.0	30.0				10.0			92.0	HMA TRANSITION, 78' AT BACK OF IMPROVEMENT
2324+15.5	LT	PE	AGG	20.0	51.0	85.0						29.1		
2324+27.0	RT	PE	AGG	14.0	10.0	30.0						7.0		AGGREGATE TRANSITION, 24'AT BACK OF IMPROVEMENT
2325+76.7	RT	PE	AGG	10.0	10.0	30.0						3.1		AGGREGATE TRANSITION, 11' AT BACK OF IMPROVEMENT
2326+09.6	RT	PE	AGG	22.0	10.0	30.0						6.3		AGGREGATE TRANSITION,
2327+67.8	RT	PE	ASPHALT	13.0	10.0	30.0				3.0			27.0	HMA TRANSITION, 21' AT BACK OF IMPROVEMENT
2330+00.6	RT	PE	AGG	20.0	10.0	30.0						7.9		AGGREGATE TRANSITION, FAIRWAY LANE
2332+85.0	RT	PE	AGG	14.0	10.0	30.0						4.4		AGGREGATE TRANSITION, 15' AT BACK OF IMPROVEMENT
2333+31.6	RT	FE	AGG	9.0	10.0	30.0						3.5		AGGREGATE TRANSITION, 11' AT BACK OF IMPROVEMENT
2336+26.3	LT	PE	AGG	20.0	47.0	81.0	100.9		101			39.3		3 PART SHARED DRIVEWAY, 15' AT BACK OF IMPROVEMENT
2336+26.3	LT	PE	AGG	20.0	55.3	79.9								3 PART SHARED DRIVEWAY
2336+58.3	LT	PE	AGG	23.0	47.1	81.1								3 PART SHARED DRIVEWAY
SUBTOTAL (PHASE 2-2)							**100.9**	**911.3**	**1540**	**88.0**	**112.0**	**260.2**	**294.0**	
2337+36.1	RT	ROAD	CONC	69.0	41.0	53.0		556.0	556					MENNEMEYER ROAD
2340+43.8	RT	CE	CONC	60.0	16.7	36.7		171.9	172					FULL RECONSTRUCTION
2342+50.1	RT	ROAD	CONC	72.0	38.7	50.7		629.3	629					WOODCREST DRIVE
2343+92.3	LT	ROAD	CONC	43.0	68.7	89.0		667.0	667					MANDA COURT
2344+09.7	RT	PE	AGG	13.0	10.0	30.0						4.0		AGGREGATE TRANSITION,
2345+11.9	RT	PE	AGG	15.0	10.0	30.0						6.1		AGGREGATE TRANSITION,
2346+00.8	RT	PE	CONC	30.0	10.0	30.0				4.0			35.7	HMA TRANSITION
2347+79.3	RT	PE	CONC	32.0	10.0	30.0				4.0			37.2	HMA TRANSITION
2351+12.4	RT	FE	AGG	20.0	21.2	40.0						14.9		25' AT BACK OF IMPROVEMENT
2351+49.0	LT	PE	ASPHALT	20.0	37.5	71.5			91	10.0	20.0			
2353+78.8	LT	PE	AGG	20.0	37.5	71.5						21.1		
SUBTOTAL (PHASE 2-3)							**0.0**	**2024.2**	**2115**	**18.0**	**20.0**	**46.2**	**73.0**	
PHASE 2 TOTAL							**100.9**	**3534.0**	**4720**	**156.0**	**204.0**	**523.7**	**497.0**	
ENTRANCE SCHEDULE SUBTOTAL							**880.8**	**4969.5**	**7687**	**244.0**	**368.0**	**1638.9**	**553.1**	
PAY TOTAL							**880.8**	**4969.5**						

ENTRANCE NOTES:

1 PRIOR TO CONSTRUCTION, THE ENGINEER WILL CONTACT EACH PROPERTY OWNER AND VERIFY THE LOCATION AND WIDTH OF ALL ENTRANCES. THE CONTRACTOR SHALL CONFIRM THE FINAL LOCATIONS AND WIDTHS WITH THE ENGINEER PRIOR TO CONSTRUCTION. SEE CONSTRUCTION DETAILS SHEET FOR ENTRANCE DETAILS.

2 OFFSET IS ALONG ENTRANCE CENTERLINE TO BACK OF ENTRANCE IMPROVEMENT.

3 BITUMINOUS PAVEMENT MIXTURE PG-64-22 (BP-1) = 1.948 TONS/CU YD COMPACTED MIXTURE

4 BITUMINOUS PAVEMENT MIXTURE PG-64-22 (BASE) = 1.943 TONS/CU YD COMPACTED MIXTURE

QUANTITIES
SHEET 8 OF 11

STATE OF MISSOURI
JEFFREY R. RENSING
NUMBER PE-2006012376
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED
8/26/2025

ROUTE 47 | STATE MO
DISTRICT NE | SHEET NO. 3
COUNTY LINCOLN
JOB NO. JNE0003
CONTRACT ID.
PROJECT NO.
BRIDGE NO.

DESCRIPTION	DATE

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MISSOURI DESIGN FIRM PE-001166

AGGREGATE FOR TEMPORARY ACCESS

STATION	STATION	GRAVEL (A) TON	REMARKS
PHASE 1			
2000+00	2039+00	220	SUBPHASE 1-1
2039+00	2098+00	220	SUBPHASE 1-2
2098+00	2165+00	160	SUBPHASE 1-3
2165+00	2227+00	10	SUBPHASE 1-4
PHASE 1 SUBTOTAL		**610**	
PHASE 2			
2227+00	2282+00	10	SUBPHASE 2-1
2282+00	2337+00	20	SUBPHASE 2-2
2337+00	2363+24	10	SUBPHASE 2-3
PHASE 2 SUBTOTAL		**40**	
PAY TOTAL		**650**	**ALL PHASES**

NOTES:
1. ESTIMATE QUANTITY TO BE USED FOR TEMPORARY ENTRANCE ACCESS AS APPROVED BY THE ENGINEER.

BITUMINOUS RUMBLE STRIP

STATION	STATION	OFFSET	BITUMINOUS SHOULDER RUMBLE STRIP (STA)	BITUMINOUS CENTERLINE RUMBLE STRIP (STA)	REMARKS
ROUTE 47					
SUBTOTAL PHASE 1-1			**16.1**	**6.0**	
SUBTOTAL PHASE 1-2			**110.8**	**59.0**	
SUBTOTAL PHASE 1-3			**99.5**	**67.0**	
SUBTOTAL PHASE 1-4			**98.1**	**62.0**	
SUBTOTAL PHASE 2-1			**91.1**	**55.0**	
SUBTOTAL PHASE 2-2			**63.1**	**55.0**	
SUBTOTAL PHASE 2-3			**12.5**	**26.2**	
PAY TOTAL			**491.2**	**330.2**	

CURB & GUTTER

STATION	STATION	OFFSET	CONCRETE GUTTER TYPE A (LF)	CURB AND GUTTER TYPE B (LF)	REMARKS
2000+16	2000+96	LT	13	121	GUTTER OUTLET
2000+57	2000+79	RT	24		GUTTER OUTLET
2001+76	2001+98	RT		22	
2001+71	2002+12	LT		41	
2002+87	2003+94	RT		107	
2002+90	2003+99	LT		110	
2004+30	2005+27	LT		97	
2004+35	2005+63	RT		129	
2006+14	2011+07	LT		494	
2007+67	2007+86	RT		19	
2008+30	2009+65	RT		135	
2010+06	2011+09	RT		104	
2011+48	2013+64	LT	22	195	GUTTER OUTLET
2011+50	2013+26	RT	23	154	GUTTER OUTLET
2014+03	2020+60	RT	23	636	GUTTER OUTLET
2014+40	2015+16	LT	23	54	GUTTER OUTLET
2015+88	2016+19	LT		31	
2016+60	2017+20	LT		61	
2017+61	2018+15	LT		54	
2018+56	2019+02	LT		47	
2019+45	2020+60	LT		116	
2021+01	2030+32	RT	48	892	GUTTER OUTLET
2021+01	2022+97	LT		196	
2023+38	2026+89	LT	32	323	GUTTER OUTLET
2334+08	2335+77	LT	9	162	GUTTER OUTLET
2336+79	2338+01	LT	13	110	GUTTER OUTLET
		PAY TOTAL	**230**	**4410**	

COLDMILLING

STATION	STATION	OFFSET	COLDMILLING BITUMINOUS PAVEMENT FOR REMOVAL OF SURFACING (3 IN. THINK OR LESS) (SQYD)	MODIFIED COLDMILLING (DEPTH TRANSITION) (SQYD)	REMARKS
ROUTE 47					
2000+09	2005+00	LT/RT	1200.0		MILL AS NECESSARY TO MEET SURFACE THICKNESS
2007+50	2010+00	LT/RT	611.0		MILL AS NECESSARY TO MEET SURFACE THICKNESS
2011+00	2013+00	LT/RT	489.0		MILL AS NECESSARY TO MEET SURFACE THICKNESS
2015+00	2018+00	LT/RT	733.0		MILL AS NECESSARY TO MEET SURFACE THICKNESS
2020+00	2022+00	LT/RT	267.0		MILL AS NECESSARY TO MEET SURFACE THICKNESS
2025+50	2027+00	LT/RT	367.0		MILL AS NECESSARY TO MEET SURFACE THICKNESS
2000+09	2002+09	LT/RT		632.0	DEPTH TRANSITION BEGINNNG OF PROJECT
2361+24	2363+24	LT/RT		1142.0	DEPTH TRANSITION END OF PROJECT
SUBTOTAL			3667.0	1774.0	
SUBTOTAL FROM ENTRANCES				553.1	
PAY TOTAL			**3667**	**2327**	

EARTHWORK

STATION	STATION	CLASS A EXCAVATION (CUYD)	EMBANKMENT (CUYD)	COMPACTING EMBANKMENT SEE NOTE 1 (CUYD)	REMARKS
PHASE 1					
2000+00	2039+00	6024	1436	1795	SUBPHASE 1-1
2039+00	2093+00	39194	15143	18928	SUBPHASE 1-2 (WITH BOHEMIAN ROAD)
2098+00	2165+00	19519	2230	2787	SUBPHASE 1-3
2165+00	2227+00	25482	3584	4480	SUBPHASE 1-4 (WITH ROUTE AA)
PHASE 1 SUBTOTAL		**90219**	**22392**	**27990**	
PHASE 2					
2227+00	2282+00	22104	4179	5224	SUBPHASE 2-1
2282+00	2337+00	26343	2493	3116	SUBPHASE 2-2
2337+00	2363+24	22789	3639	4548	SUBPHASE 2-3
PHASE 2 SUBTOTAL		**71236**	**10311**	**12888**	
PAY TOTAL		**161455**		**40878**	**ALL PHASES**

EARTHWORK NOTES:
1. ESTIMATED SHRINKAGE FACTOR = 25%.

PARTIAL DEPTH PAVEMENT REPAIR

STATION	STATION	OFFSET	FURNISHING AND PLACING BITUMINOUS MATERIAL FOR CLASS C PARTIAL DEPTH PAVEMENT REPAIR (TONS)	REMOVAL FOR CLASS C PARTIAL DEPTH PAVEMENT REPAIR (SQYD)	REMARKS
ROUTE 47					
2000+09	2039+00	LT/RT	76.9	285.5	PHASE 1-1
2039+00	2098+00	LT/RT	60.3	223.7	PHASE 1-2
2098+00	2165+00	LT/RT	106.8	396.3	PHASE 1-3
2165+00	2227+00	LT/RT	65.1	241.5	PHASE 1-4
2227+00	2282+00	LT/RT	107.2	397.7	PHASE 2-1
2282+00	2337+00	LT/RT	107.4	398.8	PHASE 2-2
2337+00	2363+24	LT/RT	60.8	225.5	PHASE 2-3
		PAY TOTAL	**584.5**	**2169.0**	

PAVEMENT NOTES:
ASSUMED 3% OF EXISTING PAVEMENT TO REMAIN IN EACH SUBPHASE. ACTUAL AREA TO BE DETERMINED BY THE RESIDENT ENGINEER. USE ASPHALTIC CONCRETE MIXTURE PG 64-22 (SP190C MIX).
APPLICATION RATES USED FOR QUANTITES
ASPHALTIC CONCRETE MIXTURE (TYPE SP190 MIX) = 1.94 TONS/CU YD COMPACTED MIXTURE

QUANTITIES
SHEET 9 OF 11

STATE OF MISSOURI
JEFFREY R. RENSING
NUMBER PE-2006012376
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED 1/12/2026
ROUTE 47 | STATE MO
DISTRICT NE | SHEET NO. 3
COUNTY LINCOLN
JOB NO. JNE0003
CONTRACT ID.
PROJECT NO.
BRIDGE NO.

DESCRIPTION | DATE

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

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

OATES ASSOCIATES
MISSOURI DESIGN FIRM PE-001186
Collinsville 100 Lanter Court, Suite 1 Collinsville, IL 62234 618.343.2200
Belleville 1 South Church, Suite 200 Belleville, IL 62220 618.416.4488
St. Louis 720 Olive, Suite 700 St. Louis, MO 63101 314.588.8361
St. Charles 820 South Main, Suite 309 St. Charles, MO 63301 636.493.5277
www.oatesassociates.com

SEEDING

PHASE	TEMPORARY SEEDING	MULCHING	SEEDING COOL SEASON GRASSES	REMARKS
	ACRES	ACRES	ACRES	
PHASE 1-1	4.2	4.2	4.2	
PHASE 1-2	10.9	10.9	10.9	
PHASE 1-3	10.3	10.3	10.3	
PHASE 1-4	14.1	14.1	14.1	
PHASE 2-1	8.0	8.0	8.0	
PHASE 2-2	8.7	8.7	8.7	
PHASE 2-3	6.9	6.9	6.9	
SUBTOTALS	63.1	63.1	63.1	
PAY TOTALS	63.1	63.1	63.1	

ADDITIONAL MOBILIZATION FOR SEEDING	6	EACH
PRECAST CONCRETE DROP INLET, 5'X3' (BMP-1)	7	LF

ROCK DITCH LINER

PHASE	EC SHEET NO	ROADWAY	STA	STA	TYPE 1 TURF REINFORCEMENT MAT S.Y.		TYPE 2 TURF REINFORCEMENT MAT S.Y.		FURNISHING TYPE 2 ROCK DITCH LINER C.Y.		PLACING TYPE 2 ROCK DITCH LINER C.Y.		FURNISHING TYPE 3 ROCK DITCH LINER C.Y.		PLACING TYPE 3 ROCK DITCH LINER C.Y.		SUBSURFACE DRAINAGE GEOTEXTILE S.Y.		REMARKS
					LEFT	RIGHT	LEFT	RIGHT	LEFT	RIGHT	LEFT	RIGHT	LEFT	RIGHT	LEFT	RIGHT	LEFT	RIGHT	
PHASE 1-1	1	ROUTE 47	2000+00	2027+00	64	4													
	2	ROUTE 47	2027+00	2039+00	1693														
PHASE 1-2	2	ROUTE 47	2039+00	2054+00	550														
	3	ROUTE 47	2054+00	2081+00	1425	589	66		86	128	86	128	10		10		354	505	
	4	ROUTE 47	2081+00	2098+00	606	375													
PHASE 1-3	4	ROUTE 47	2098+00	2108+00	637	96				11		11		9		9		69	
	5	ROUTE 47	2108+00	2135+00	599	187				16		16						66	
	6	ROUTE 47	2135+00	2162+00	687	136													
	7	ROUTE 47	2162+00	2165+00		104													
PHASE 1-4	7	ROUTE 47	2165+00	2189+00	216	1116			107	74	107	74					390	265	
	8	ROUTE 47	2189+00	2216+00	617	453	6			5		5						23	
	9	ROUTE 47	2216+00	2227+00															(1)
PHASE 2-1	9	ROUTE 47	2227+00	2243+00	63	781				28		28	18	24	18	24	50	160	
	10	ROUTE 47	2243+00	2270+00	164	119													
	11	ROUTE 47	2270+00	2282+00		210													
PHASE 2-2	11	ROUTE 47	2282+00	2297+00		85													
	12	ROUTE 47	2297+00	2324+00	860	298			15		15						58		
	13	ROUTE 47	2324+00	2337+00		104													
PHASE 2-3	13	ROUTE 47	2337+00	2351+00	1088	77			40		40						142		
	14	ROUTE 47	2351+00	2365+00	44				235		235						818		
SUBTOTALS					14047		72		745		745		61		61		2900		
PAY TOTALS					14047		72		745		745		61		61		2900		

(1) NO LINER PAY ITEMS ON SHEET 9 FOR PHASE 1-4.

EROSION CONTROL

PHASE	SHEET NO	ROADWAY	STA	STA	SILT FENCE L.F.		ROCK DITCH CHECK L.F.		ALTERNATE DITCH CHECK L.F.		SEDIMENT TRAP L.F.		SEDIMENT TRAP EXCAVATION C.Y.		SEDIMENT REMOVAL C.Y.		REMARKS
					LEFT	RIGHT	LEFT	RIGHT	LEFT	RIGHT	LEFT	RIGHT	LEFT	RIGHT	LEFT	RIGHT	
PHASE 1-1	1	ROUTE 47	2000+00	2027+00	427		72	18			19		67		48	1	
	2	ROUTE 47	2027+00	2039+00			306	54		108		5		18	17	19	
PHASE 1-2	2	ROUTE 47	2039+00	2054+00			342			288					19	16	
	3	ROUTE 47	2054+00	2081+00	37	49	1008	1098		54		14		49	56	94	
	4	ROUTE 47	2081+00	2098+00			414	144		252					23	22	
PHASE 1-3	4	ROUTE 47	2098+00	2108+00			288	144		180		5		18	16	28	
	5	ROUTE 47	2108+00	2135+00			414	144		324		10		35	23	46	
	6	ROUTE 47	2135+00	2162+00			432	180		162		5		18	24	29	
	7	ROUTE 47	2162+00	2165+00			18	18		18					1	2	
PHASE 1-4	7	ROUTE 47	2165+00	2189+00	729		468	432	126		19		67		80	24	
	8	ROUTE 47	2189+00	2216+00			648	270		342	10		35		56	34	
	9	ROUTE 47	2216+00	2227+00			216	252							12	14	
PHASE 2-1	9	ROUTE 47	2227+00	2243+00			90	342	234		5	10	18	35	28	39	
	10	ROUTE 47	2243+00	2270+00			90	468	432		5		18		39	26	
	11	ROUTE 47	2270+00	2282+00		217	216	54		270		5		18	12	30	
PHASE 2-2	11	ROUTE 47	2282+00	2297+00			216	18		306	10		35		32	18	
	12	ROUTE 47	2297+00	2324+00		77	432	72		432		5		18	24	39	
	13	ROUTE 47	2324+00	2337+00			180			486					10	27	
PHASE 2-3	13	ROUTE 47	2337+00	2351+00		454	270	18		162		5		18	15	25	
	14	ROUTE 47	2351+00	2365+00			324	144				14		49	18	38	
SUBTOTALS					1990		10314		4176		146		516		1124		
PAYTOTALS					1990		10314		4176		146		516		1124		

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STATE OF MISSOURI
MARGARET ANN BRUNS
NUMBER PE-2010000798
PROFESSIONAL ENGINEER
7/30/2025 4:14:15 PM
Margaret Ann Bruns - Civil
MO PE-2010000798

DATE PREPARED 7/30/2025
ROUTE 47 | STATE MO
DISTRICT NE | SHEET NO. 3
COUNTY LINCOLN
JOB NO. JNE0003
CONTRACT ID. .
PROJECT NO. .
BRIDGE NO. .

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

EFK•Moen
Civil Engineering Design
13523 Barrett Parkway Dr
Suite 250
St Louis, MO 63021
Phone 314-394-3100
Fax 314-394-3199
Missouri Certificate of Authority: 001578

SUMMARIES OF QUANTITIES
SHEET 10 OF 11

SIGN	SIZE IN.	AREA SQ.FT.	QTY EACH	TOTAL AREA SQ.FT.	QTY RELOC EACH	TOTAL RELOC SQ.FT.	SIGN NO.	DESCRIPTION
WARNING SIGNS								
WO1-1L	48X48	16.00						TURN (SYMBOL LEFT)
WO1-1R	48X48	16.00						TURN (SYMBOL RIGHT)
WO1-2L	48X48	16.00						CURVE (SYMBOL LEFT)
WO1-2R	48X48	16.00						CURVE (SYMBOL RIGHT)
WO1-3L	48X48	16.00						REVERSE TURN (SYMBOL LEFT)
WO1-3R	48X48	16.00						REVERSE TURN (SYMBOL RIGHT)
WO1-4L	48X48	16.00						REVERSE CURVE (SYMBOL LEFT)
WO1-4R	48X48	16.00						REVERSE CURVE (SYMBOL RIGHT)
WO1-4bL	48X48	16.00						DOUBLE ARROW REVERSE CURVE (SYMBOL LEFT)
WO1-4bR	48X48	16.00						DOUBLE ARROW REVERSE CURVE (SYMBOL RIGHT)
WO1-4cL	48X48	16.00						TRIPLE ARROW REVERSE CURVE (SYMBOL LEFT)
WO1-4cR	48X48	16.00						TRIPLE ARROW REVERSE CURVE (SYMBOL RIGHT)
WO1-6	60X30	12.50						HORIZONTAL ARROW (SYMBOL)
WO1-6a	72X36	18.00						HORIZ. ARROW (SYMBOL ON PERMANENT BARRICADE)
WO1-7	60X30	12.50						DOUBLE HEAD HORIZONTAL ARROW (SYMBOL)
WO1-7a	72X36	18.00						DOUBLE HEAD HORIZ. ARROW (SYMBOL ON PERM. BARR.)
WO1-8	18X24	3.00						CHEVRON (SYMBOL)
WO1-8a	30X36	7.50						CHEVRON (SYMBOL FOR DIVIDED HIGHWAYS)
WO3-1	48X48	16.00						STOP AHEAD (SYMBOL)
WO3-2	48X48	16.00						YIELD AHEAD (SYMBOL)
WO3-3	48X48	16.00						SIGNAL AHEAD (SYMBOL)
WO3-4	48X48	16.00	3	48.00			11	BE PREPARED TO STOP
WO3-5	48X48	16.00	2	32.00			N/A	SPEED LIMIT AHEAD
WO4-1L	48X48	16.00						MERGE (SYMBOL FROM LEFT)
WO4-1R	48X48	16.00						MERGE (SYMBOL FROM RIGHT)
WO4-1aL	48X48	16.00						MERGE (LEFT)
WO4-1aR	48X48	16.00						MERGE (RIGHT)
WO5-1	48X48	16.00						ROAD/BRIDGE/RAMP NARROWS
WO5-3	48X48	16.00						ONE LANE BRIDGE
WO5-5	48X48	16.00						NARROW LANES
WO6-1	48X48	16.00						DIVIDED HIGHWAY (SYMBOL)
WO6-2	48X48	16.00						DIVIDED HIGHWAY END (SYMBOL)
WO6-3	48X48	16.00						TWO WAY TRAFFIC (SYMBOL)
WO7-3a	30X24	5.00						NEXT XX MILES (PLAQUE)
WO8-1	48X48	16.00						BUMP
WO8-2	48X48	16.00						DIP
WO8-3	48X48	16.00						PAVEMENT ENDS
WO8-4	48X48	16.00						SOFT SHOULDER
WO8-5	48X48	16.00						SLIPPERY WHEN WET (SYMBOL)
WO8-6	48X48	16.00						TRUCK CROSSING
WO8-6c	48X48	16.00						TRUCK ENTRANCE
WO8-7	36X36	9.00						LOOSE GRAVEL
WO8-7a	36X36	9.00						FRESH OIL / LOOSE GRAVEL
WO8-9	48X48	16.00						LOW SHOULDER
WO8-11	48X48	16.00						UNEVEN LANES
WO8-12	48X48	16.00						NO CENTER LINE
WO8-15	48X48	16.00						GROOVED PAVEMENT
WO8-15P	30X24	5.00						MOTORCYCLE (PLAQUE)
WO8-17L	48X48	16.00						SHOULDER DROP-OFF (SYMBOL LEFT)
WO8-17R	48X48	16.00						SHOULDER DROP-OFF (SYMBOL RIGHT)
WO8-17P	30X24	5.00						SHOULDER DROP-OFF (PLAQUE)
W10-1	42RND.	9.62						RAILROAD CROSSING
WO12-1	24X24	4.00						DOUBLE DOWN ARROW (SYMBOL)
WO12-2	48X48	16.00						LOW CLEARANCE (SYMBOL)
WO12-2x	24X18	3.00						LOW CLEARANCE (PLAQUE)
WO12-2a	84X24	14.00						OVERHEAD LOW CLEARANCE (FEET AND INCHES)
WO12-4	120X60	50.00						LOW CLEARANCE XX FT XX IN XX MILES AHEAD
WO12-5	120X60	50.00						WIDTH RESTRICTION XX FT XX IN XX MILES AHEAD
WO13-1	30X30	6.25						ADVISORY SPEED (PLAQUE)
WO16-2	30X24	5.00						XXX FEET (PLAQUE)
WO20-1	48X48	16.00	16	256.00			2	ROAD WORK AHEAD
WO20-2	48X48	16.00	2	32.00			18	DETOUR AHEAD
WO20-3	48X48	16.00	5	80.00			20A/B	ROAD CLOSED XX FT (3-200FT; 2-500FT)
WO20-3	48X48	16.00	5	80.00			20	ROAD CLOSED AHEAD
WO20-4	48X48	16.00	3	48.00			7	ONE LANE ROAD AHEAD
WO20-5	48X48	16.00						RIGHT/CENTER/LEFT LANE CLOSED AHEAD
WO20-5a	48X48	16.00						2 RIGHT/CENTER/LEFT LANES CLOSED AHEAD
WO20-6a	48X48	16.00						RIGHT/CENTER/LEFT LANE CLOSED
WO20-7a	48X48	16.00	3	48.00			8	FLAGGER (SYMBOL)
WO21-2	36X36	9.00						FRESH OIL
WO21-5	48X48	16.00						SHOULDER WORK / SHOULDER WORK AHEAD
WO22-1	48X48	16.00						BLASTING ZONE AHEAD
WO22-2	42X36	10.50						TURN OFF 2-WAY RADIO AND PHONE
WO22-3	42X36	10.50						END BLASTING ZONE
GO22-1	21X15	2.19						WET PAINT (ARROW PIVOTS)

SIGN	SIZE IN.	AREA SQ.FT.	QTY EACH	TOTAL SQ.FT.	QTY RELOC EACH	TOTAL RELOC SQ.FT.	SIGN NO.	DESCRIPTION
GUIDE SIGNS								
E05-1	36X48	12.00						GORE EXIT
E05-2	48X36	12.00						EXIT OPEN
E05-2a	48X36	12.00						EXIT CLOSED
GO20-1	60X24	10.00	2	20.00			1	ROAD WORK NEXT XX MILES
GO20-2	48X24	8.00	2	16.00			26	END ROAD WORK
GO20-4	36X18	4.50	1	4.50			53	PILOT CAR FOLLOW ME
GO20-4a	42X30	8.75	2	17.50			60	PILOT CAR IN USE WAIT & FOLLOW
GO20-4a	18X12	1.50	2	3.00			58	PILOT CAR IN USE WAIT & FOLLOW
GO20-5aP	36X24	6.00	2	12.00			54	WORK ZONE
GO22-1	15X21	2.20	2	4.40			N/A	WET PAINT (ARROW PIVOTS)
MO4-8a	24X18	3.00	2	6.00			52	END DETOUR
MO4-9R	48X36	12.00						DETOUR (RIGHT)
MO4-9P	48X12	4.00						STREET NAME (PLAQUE)
MO4-10L	48X18	6.00						DETOUR ARROW (LEFT)
MO4-10R	48X18	6.00						DETOUR ARROW (RIGHT)
REGULATORY SIGNS								
R1-1	48X48	13.25						STOP
R1-2	48TRI.	6.93						YIELD
R1-2a	36X36	9.00						TO ONCOMING TRAFFIC (PLAQUE)
R1-3P	30X12	2.50						ALL WAY (PLAQUE)
R2-1	36X48	12.00	8	96.00			N/A	SPEED LIMIT XX
R3-1	48X48	16.00						NO RIGHT TURN (SYMBOL)
R3-2	48X48	16.00						NO LEFT TURN (SYMBOL)
R3-3	36X36	9.00						NO TURNS
R3-4	48X48	16.00						NO U-TURN (SYMBOL)
R3-7L	30X30	6.25						LEFT LANE MUST TURN LEFT
R3-7R	30X30	6.25						RIGHT LANE MUST TURN RIGHT
R4-1	36X48	12.00						DO NOT PASS
R4-2	36X48	12.00						PASS WITH CARE
R4-7a	36X48	12.00						KEEP RIGHT (HORIZONTAL ARROW)
R4-8a	36X48	12.00						KEEP LEFT (HORIZONTAL ARROW)
R5-1	30X30	6.25						DO NOT ENTER
R5-1a	36X24	6.00						WRONG WAY
R6-1L	54X18	6.75						ONE WAY ARROW (LEFT)
R6-1R	54X18	6.75						ONE WAY ARROW (RIGHT)
R6-2L	24X30	5.00						ONE WAY (LEFT)
R6-2R	24X30	5.00						ONE WAY (RIGHT)
R9-9	24X12	2.00						SIDEWALK CLOSED
R9-11L	24X18	3.00						SIDEWALK CLOSED AHEAD, (ARROW LEFT) CROSS HERE
R9-11R	24X18	3.00						SIDEWALK CLOSED AHEAD, (ARROW RIGHT) CROSS HERE
R10-6	24X36	6.00						STOP HERE ON RED (45^ ARROW)
R11-2	48X30	10.00	5	50.00			29	ROAD CLOSED
R11-3a	60X30	12.50	6	75.00			62	ROAD CLOSED XX MILES AHEAD LOCAL TRAFFIC ONLY
R11-4	60X30	12.50						ROAD CLOSED TO THRU TRAFFIC
CONST-3A	60X48	20.00						FINE SIGN
CONST-3X	56X12	4.67						SPEEDING/PASSING (PLATE)
MISCELLANEOUS SIGNS								
CONST-5	48X36	12.00						POINT OF PRESENCE
CONST-5	96X48	32.00						POINT OF PRESENCE
CONST-8	42X36	10.50	2	21.00			59	WORK ZONE, NO PHONE ZONE
SPL SIGN							60A-	TRAFFIC CONTROL SIGNS -
MO4-11	VARIES	19.50	38	741.00			60G	DETOUR 47 NORTH
SPL SIGN							61A-	TRAFFIC CONTROL SIGNS -
MO4-11	VARIES	19.50	35	682.5			61I	DETOUR 47 SOUTH

616-10.05 CONSTRUCTION SIGNS	TOTAL	2372.9 *
616-10.10 RELOCATED SIGNS	TOTAL	

ITEM NUMBER	TOTAL QTY	EFFECTIVE: 07-01-2025 DESCRIPTION
6122008		IMPACT ATTENUATOR 40 MPH (SAND BARRELS)
6122009		IMPACT ATTENUATOR 45 MPH (SAND BARRELS)
6122010		IMPACT ATTENUATOR 50 MPH (SAND BARRELS)
6122012		IMPACT ATTENUATOR 55 MPH (SAND BARRELS)
6122014		IMPACT ATTENUATOR 60 MPH (SAND BARRELS)
6122017		IMPACT ATTENUATOR 65 MPH (SAND BARRELS)
6122019		IMPACT ATTENUATOR 70 MPH (SAND BARRELS)
6122020		REPLACEMENT SAND BARREL
6122030		IMPACT ATTENUATOR (RELOCATION)
6122040		WORK ZONE CRASH CUSHION (NARROW)
6122041		WORK ZONE CRASH CUSHION (RELOCATION)
6123001	1	TRUCK MOUNTED ATTENUATOR (TMA)
6161012		BUOYS (BOATS KEEP OUT)
6161013		BUOYS (NO WAKE)
6161014		SPECIAL SIGN ASSEMBLY (BOATS KEEP OUT)
6161020		CHANNELIZER (DRUM-LIKE)
6161022	40*	CHANNELIZER (CONE)
6161025	400*	CHANNELIZER (TRIM-LINE)
6161026		CHANNELIZER (VERTICAL PANEL)
6161030	19*	TYPE 3 MOVEABLE BARRICADE
6161033		DIRECTION INDICATOR BARRICADE
6161040	2*	FLASHING ARROW PANEL
6161047		TYPE 3 OBJECT MARKER
6161055		SEQUENTIAL FLASHING WARNING LIGHT
6161070		TUBULAR MARKER
6161095		RADAR SPEED ADVISORY SYSTEM
6161096		CHANGEABLE MESSAGE SIGN, COMMISSION FURNISHED/RETAINED
6161098A	8	CHANGEABLE MESSAGE SIGN WITHOUT COMM. INTERFACE, CONTRACTOR FURNISHED/RETAINED
6161099		CHANGEABLE MESSAGE SIGN WITH COMM. INTERFACE, CONTRACTOR FURNISHED/RETAINED
6162000A		WORK ZONE TRAFFIC SIGNAL SYSTEM
6162002		TEMPORARY LONG-TERM RUMBLE STRIPS
6173600D		TEMPORARY TRAFFIC BARRIER, CONTRACTOR FURNISHED/RETAINED
6173700B		TEMP. TRAFFIC BARRIER ANCHORED, CONTRACTOR FURNISHED/RETAINED
6173706		TEMP. TRAFFIC BARRIER STIFFNESS TRANSITION CONTRACTOR FURNISHED/RETAINED
6174000A		TEMP. TRAFFIC BARRIER HEIGHT TRANSITION, CONTRACTOR FURNISHED/RETAINED
6175010A		RELOCATING TEMPORARY TRAFFIC BARRIER
6175011B		RELOCATING TEMP. TRAFFIC BARRIER ANCHORED
6175013		RELOCATING TEMP. TRAFFIC BARRIER STIFFNESS
6175020A		RELOCATING TEMP. TRAFFIC BARRIER HEIGHT
6208064A		TEMPORARY RAISED PAVEMENT MARKER
9029400		TEMPORARY TRAFFIC SIGNALS
9029401		TEMPORARY TRAFFIC SIGNALS AND LIGHTING

616-99.01	TEMPORARY TRAFFIC CONTROL (* ITEM INCLUDED)	LUMP SUM	1

QUANTITIES
SHEET 11 OF 11

STATE OF MISSOURI
JEFFREY R. RENSING
NUMBER PE-2006012376
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED 8/26/2025

ROUTE	STATE
47	MO
DISTRICT	SHEET NO.
NE	3

COUNTY: LINCOLN
JOB NO.: JNE0003
CONTRACT ID.:
PROJECT NO.:
BRIDGE NO.:

DESCRIPTION | DATE

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MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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JEFFERSON CITY, MO 65102
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OATES ASSOCIATES

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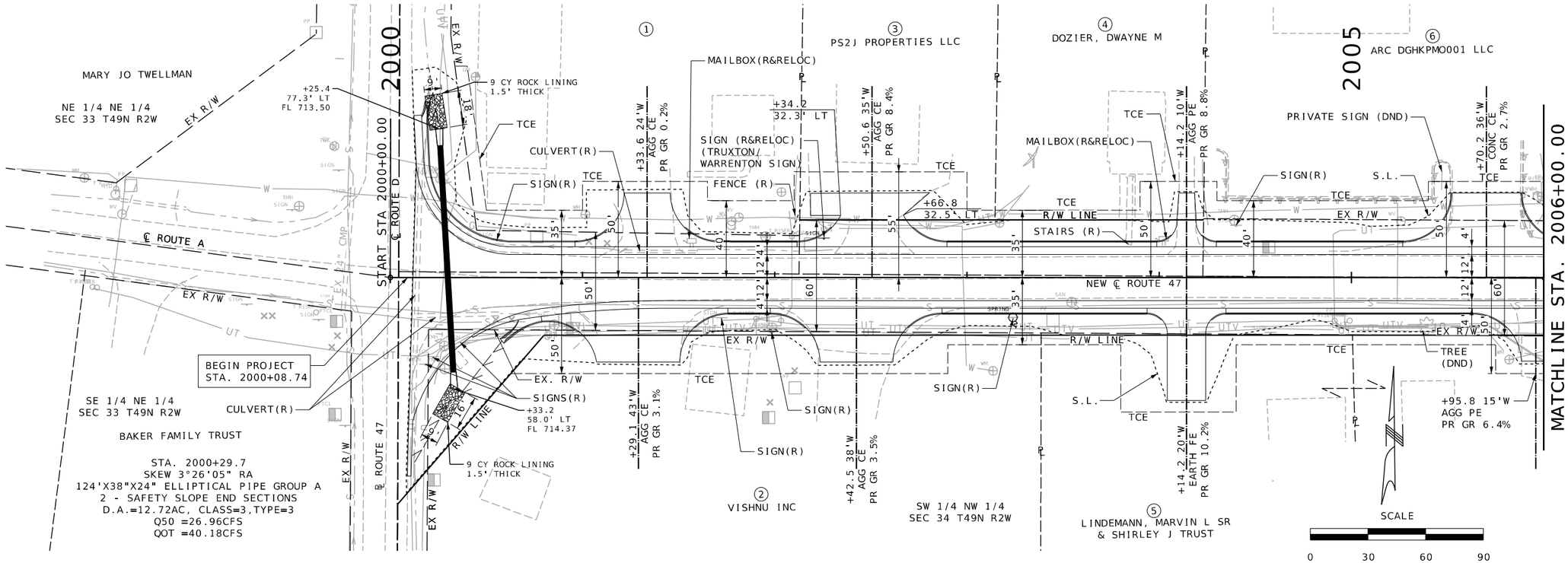

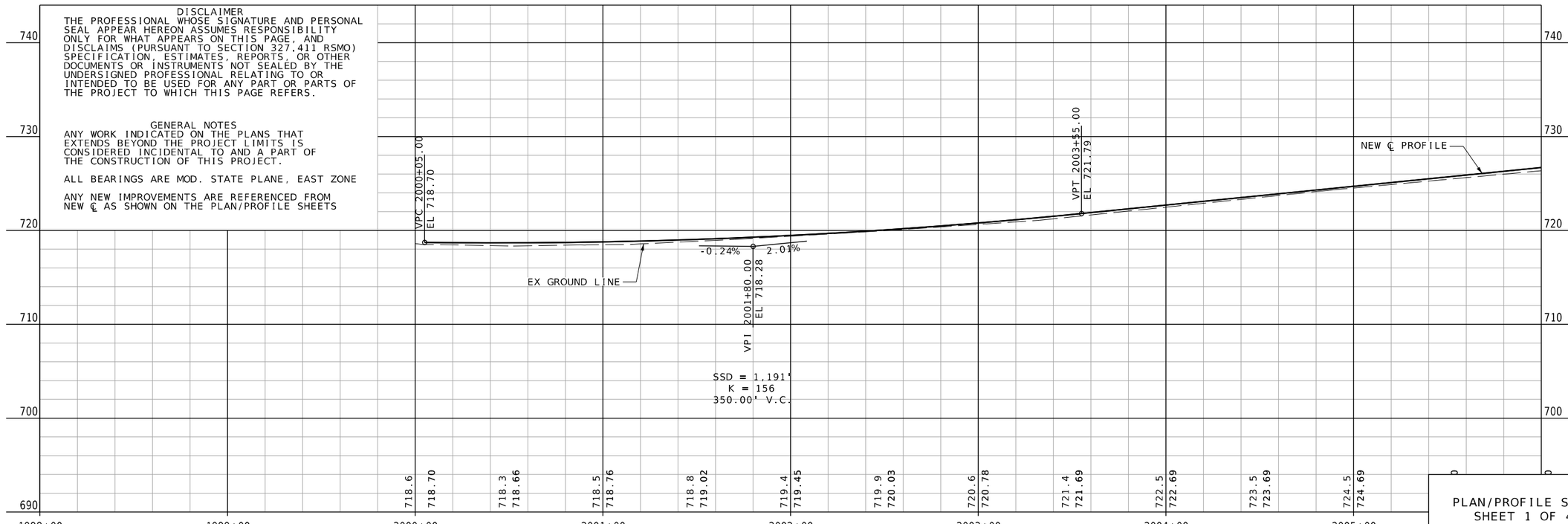

PLAN/PROFILE SHEET
SHEET 1 OF 47

STATE OF MISSOURI
JEFFREY R. RENSING
NUMBER PE-2006012376
PROFESSIONAL ENGINEER

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DATE PREPARED	
8/26/2025	
ROUTE	STATE
47	MO
DISTRICT	SHEET NO.
NE	4

COUNTY: LINCOLN
JOB NO.: JNE0003
CONTRACT ID.:
PROJECT NO.:
BRIDGE NO.:

DATE	DESCRIPTION
.	.

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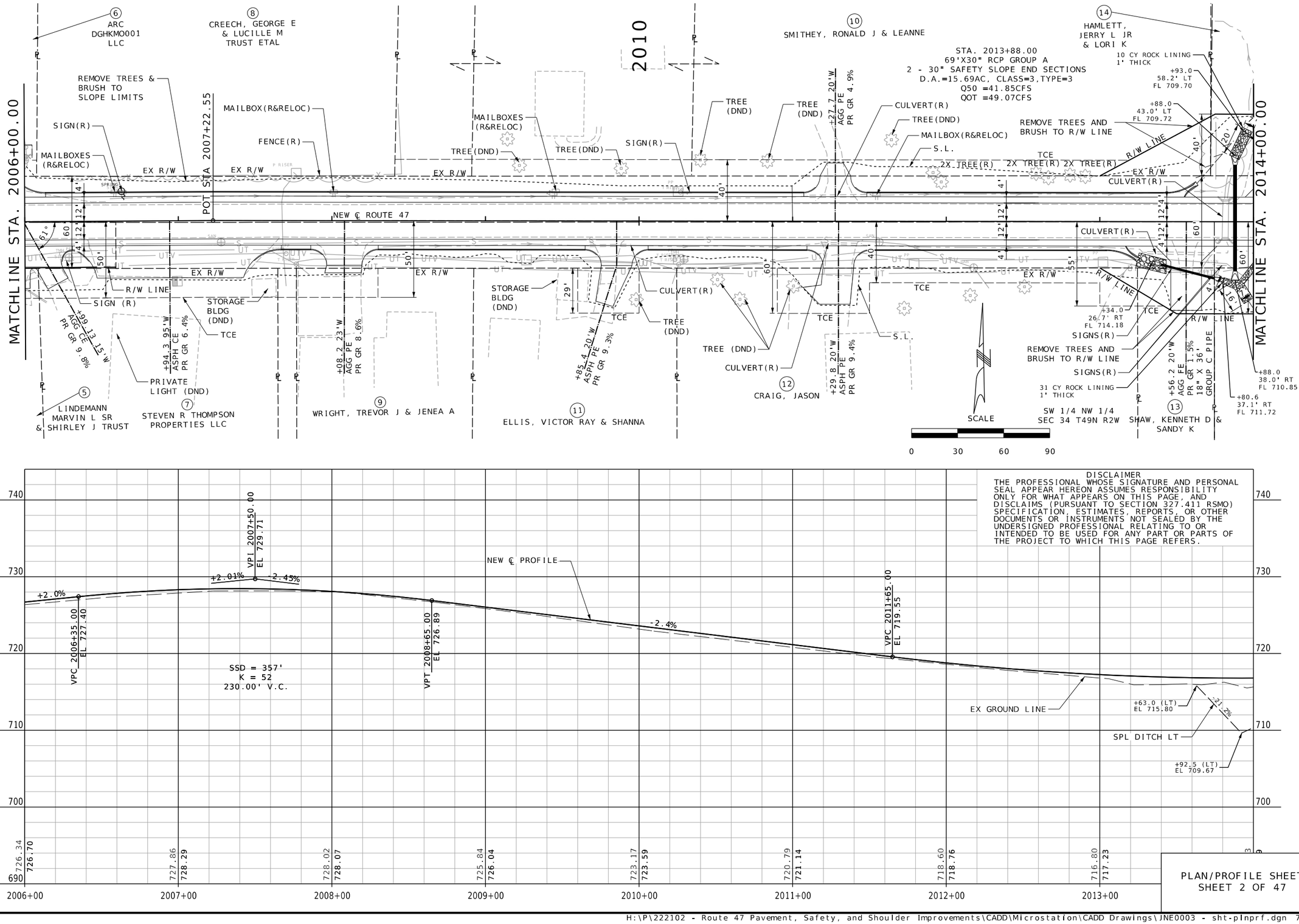

PLAN/PROFILE SHEET
SHEET 2 OF 47

STATE OF MISSOURI
JEFFREY R. RENSING
NUMBER PE-2006012376
PROFESSIONAL ENGINEER

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DATE PREPARED	
8/26/2025	
ROUTE	STATE
47	MO
DISTRICT	SHEET NO.
NE	5

COUNTY: LINCOLN
JOB NO.: JNE0003
CONTRACT ID.: .
PROJECT NO.: .
BRIDGE NO.: .

DESCRIPTION	DATE
.	.

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JEFFERSON CITY, MO 65102
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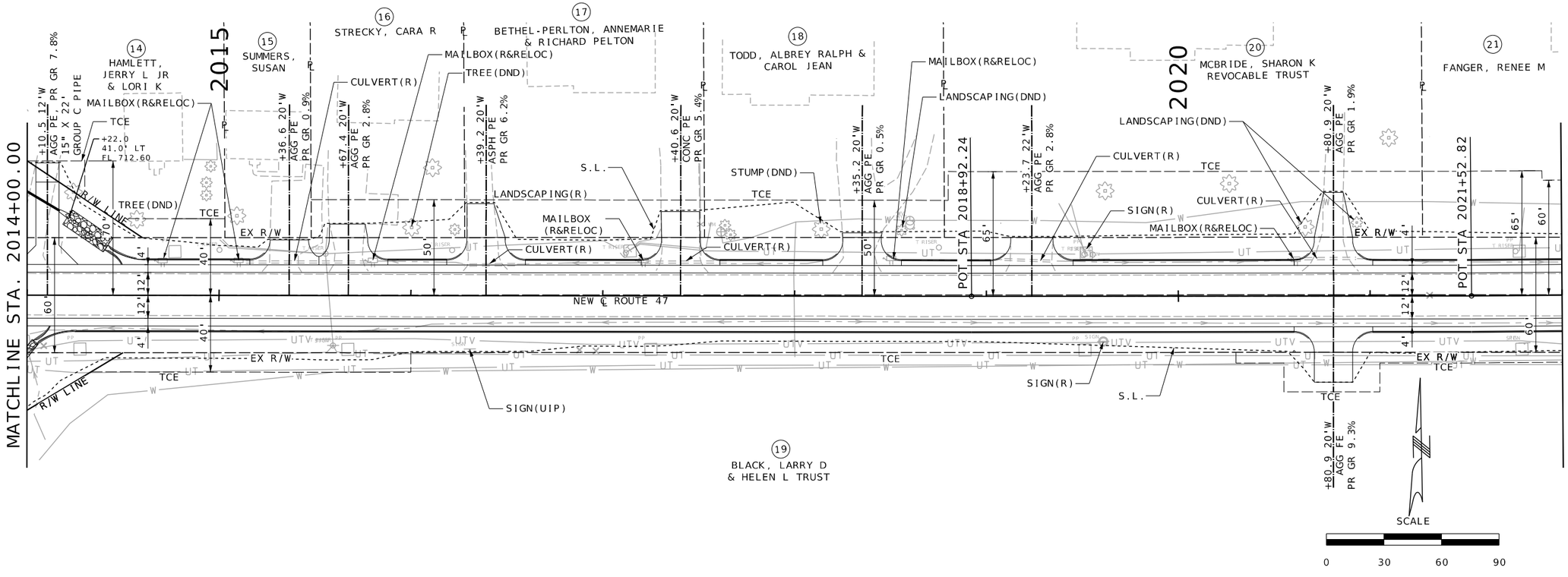

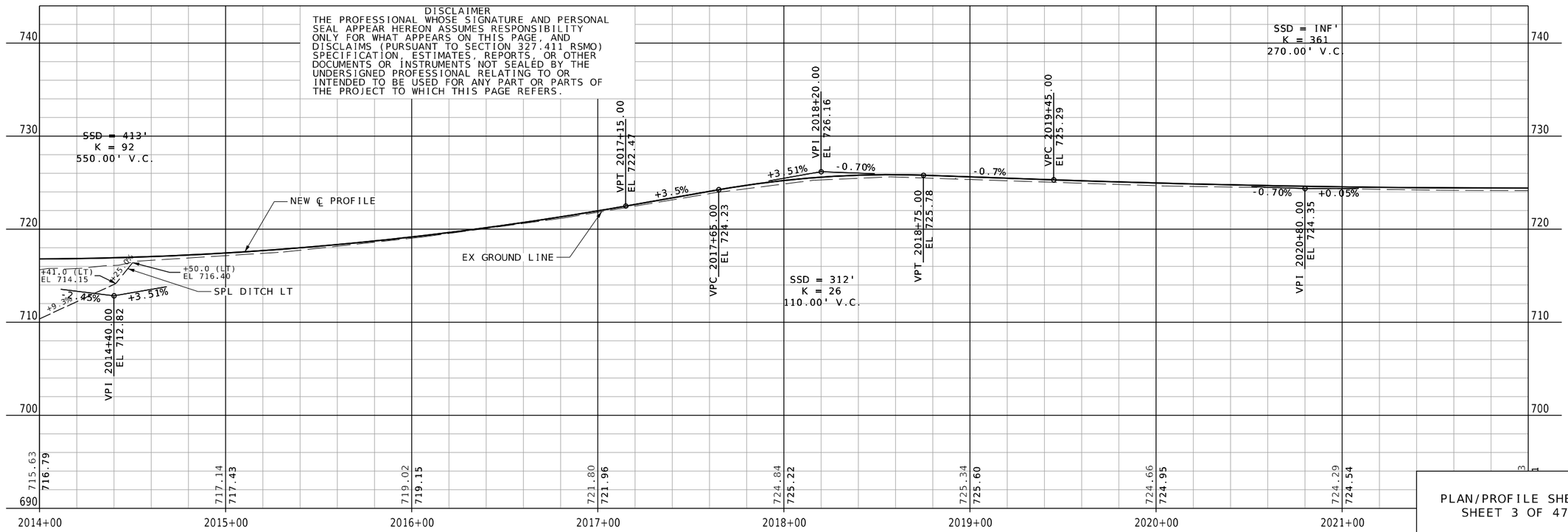

PLAN/PROFILE SHEET
SHEET 3 OF 47

STATE OF MISSOURI
JEFFREY R. RENSING
NUMBER PE-2006012376
PROFESSIONAL ENGINEER

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DATE PREPARED 8/26/2025

ROUTE	STATE
47	MO
DISTRICT	SHEET NO.
NE	6

COUNTY: LINCOLN
JOB NO.: JNE0003
CONTRACT ID.:
PROJECT NO.:
BRIDGE NO.:

DESCRIPTION	DATE

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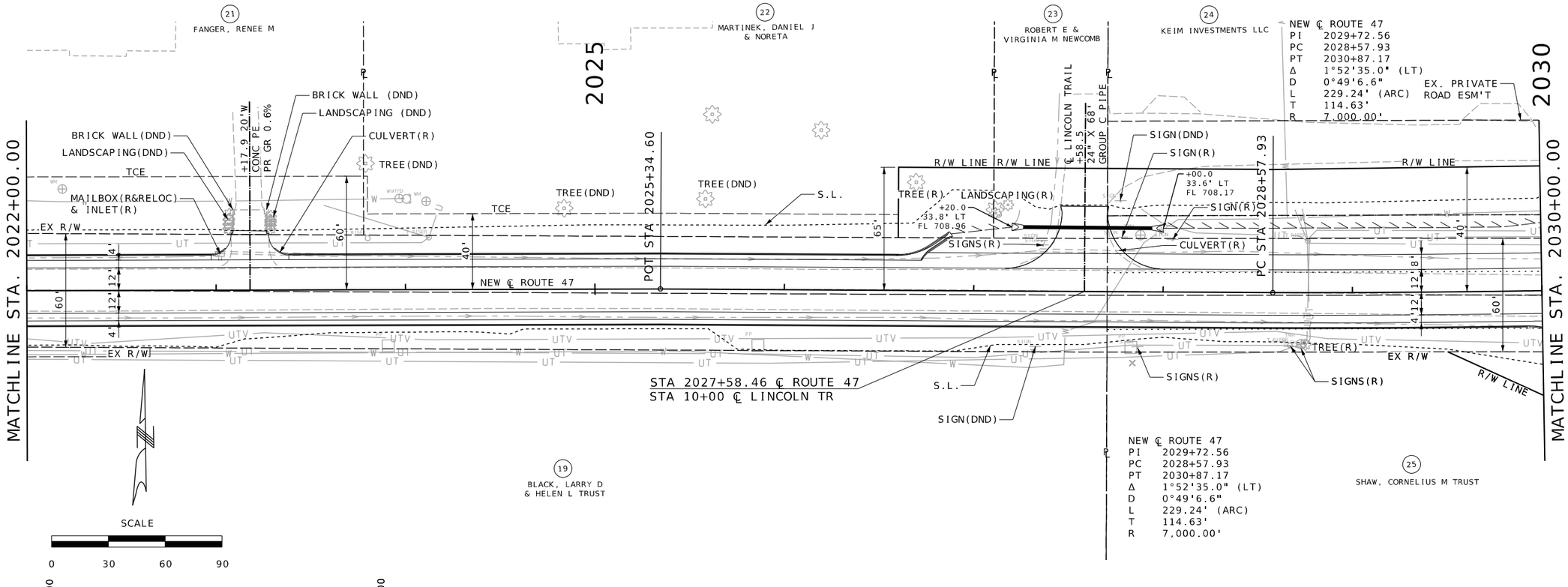

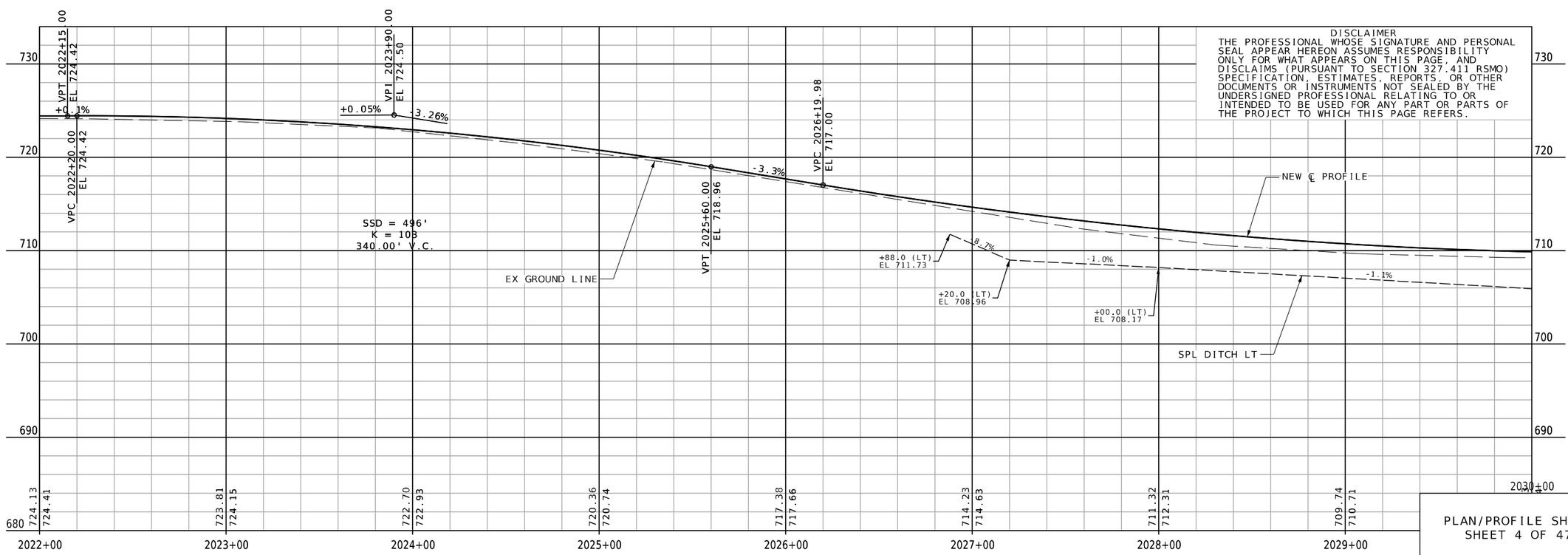

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PLAN/PROFILE SHEET
SHEET 4 OF 47

STATE OF MISSOURI
JEFFREY R. RENSING
NUMBER PE-2006012376
PROFESSIONAL ENGINEER

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DATE PREPARED 8/26/2025

ROUTE	STATE
47	MO
DISTRICT	SHEET NO.
NE	7

COUNTY LINCOLN
JOB NO. JNE0003
CONTRACT ID. .
PROJECT NO. .
BRIDGE NO. .

DESCRIPTION	DATE
.	.

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NEW ℄ ROUTE 47
PI 2029+72.56
PC 2028+57.93
PT 2030+87.17
Δ 1°52'35.0" (LT)
D 0°49'6.6"
L 229.24' (ARC)
T 114.63'
R 7,000.00'

2030

MATCHLINE STA. 2030+00.00

24 KEIM INVESTMENTS LLC

CULVERTS & FES(UIP)

55 CY ROCK LINING
1.5' THICK

26 LNB FARM LANE LLC

27 PATEL, GHANSHYAM & HETAL

2035

EX. PRIVATE
ROAD ESM'T

28 GROEPPER, KERRY
& NANCY

MATCHLINE STA. 2038+00.00

PRC STA 2030+87.17

PT STA 2033+17.95

POT STA 2037+30.30

S.L.

R/W LINE

SIGN(R&RELOC)

EX R/W

NEW ℄ ROUTE 47

CULVERT(R)

SIGNS(R)

51'
20'
+39.5
-38.2' LT
FL 705.25
60'
65'
81'
9'
12'
8'

9 CY ROCK LINING
1.5' THICK

+37.3
42.9' RT
FL 704.40

STA. 2030+35.86
SKEW 2°03'34" LA
81'X5'X3' PRCBC
WITH END SECTIONS
D.A.=22.00AC
Q_{10} =51.39CFS
Q_{50} =66.32CFS

NEW ℄ ROUTE 47
PI 2032+02.57
PC 2030+87.17
PT 2033+17.95
Δ 1°53'20.2" (RT)
D 0°49'6.6"
L 230.78' (ARC)
T 115.40'
R 7,000.00'

25 SHAW, CORNELIUS M TRUST

SCALE
0 30 60 90

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SSD = 579'
K = 138
850.00' V.C.

VPI 2030+44.98
EL 703.15

VPT 2034+69.98
EL 715.43

NEW ℄ PROFILE

EX GROUND LINE

+35.0 (LT)
EL 705.50
+45.0 (LT)
EL 705.50
-1.1%
+37.3 (RT)
EL 704.40
+0.3%
-3.26%
+2.89%
+0.9%
+2.2%
+2.9%
+00.0 (LT)
EL 706.90
+74.0 (RT)
EL 838.00
+00.0 (RT)
EL 704.60
SPL DITCH LT
SPL DITCH RT

730 720 710 700 690 680

709.23 709.84 709.45 709.69 709.81 710.26 711.00 711.56 712.91 713.58 715.67 716.30 718.66 719.19 721.47 722.08

2030+00 2031+00 2032+00 2033+00 2034+00 2035+00 2036+00 2037+00 2038+00

PLAN/PROFILE SHEET
SHEET 5 OF 47

STATE OF MISSOURI
JEFFREY R. RENSING
NUMBER PE-2006012376
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED
8/26/2025

ROUTE	STATE
47	MO
DISTRICT	SHEET NO.
NE	8

COUNTY
LINCOLN

JOB NO.
JNE0003

CONTRACT ID.
.

PROJECT NO.
.

BRIDGE NO.
.

DATE	DESCRIPTION
.	.

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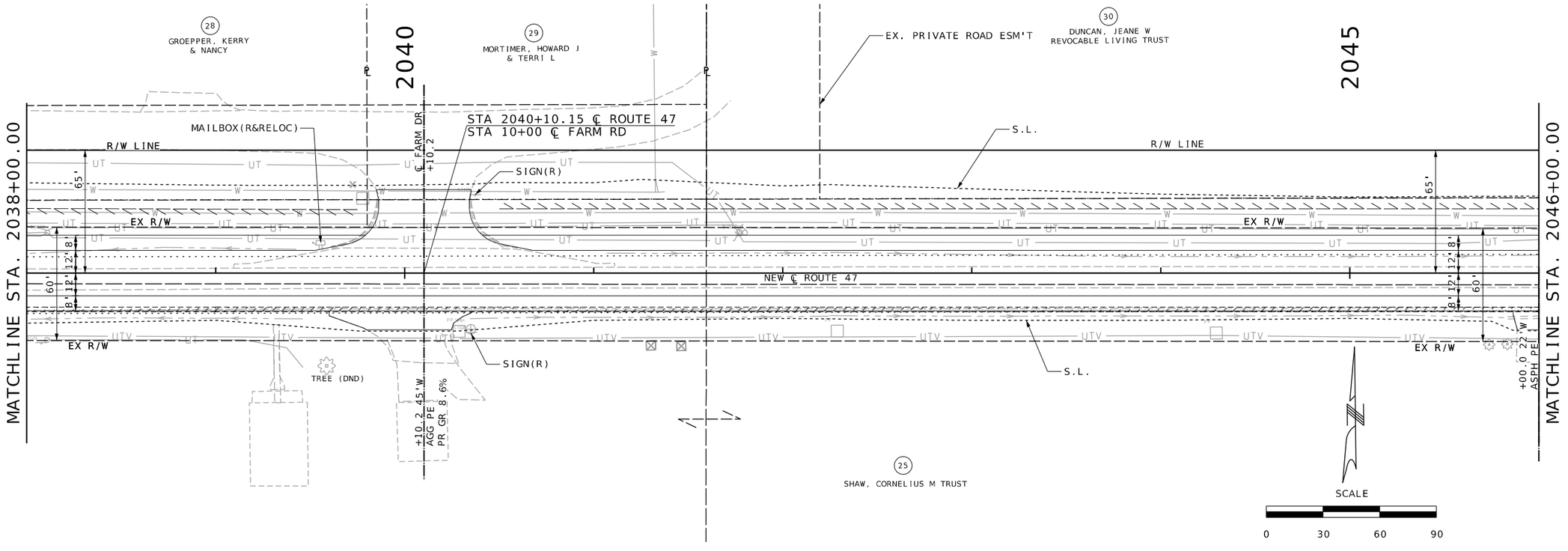

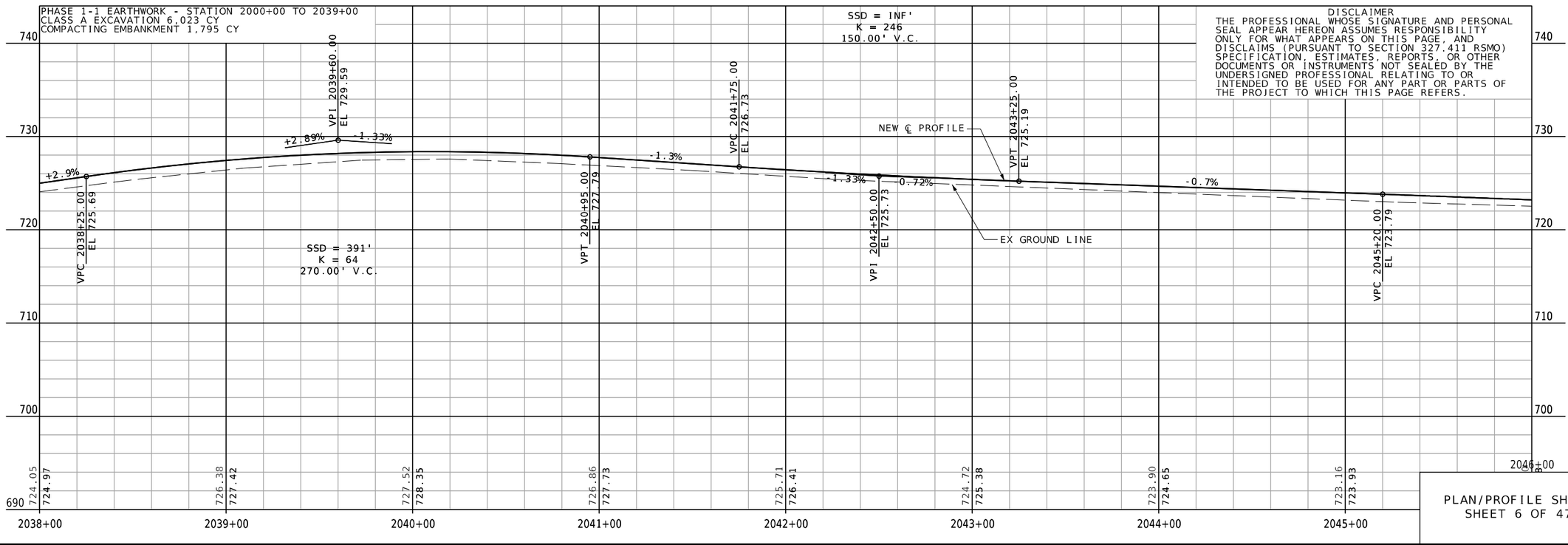

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PLAN/PROFILE SHEET
SHEET 6 OF 47

STATE OF MISSOURI
JEFFREY R. RENSING
NUMBER PE-2006012376
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED: 8/26/2025
ROUTE: 47 | STATE: MO
DISTRICT: NE | SHEET NO.: 9
COUNTY: LINCOLN
JOB NO.: JNE0003
CONTRACT ID.:
PROJECT NO.:
BRIDGE NO.:

DESCRIPTION	DATE

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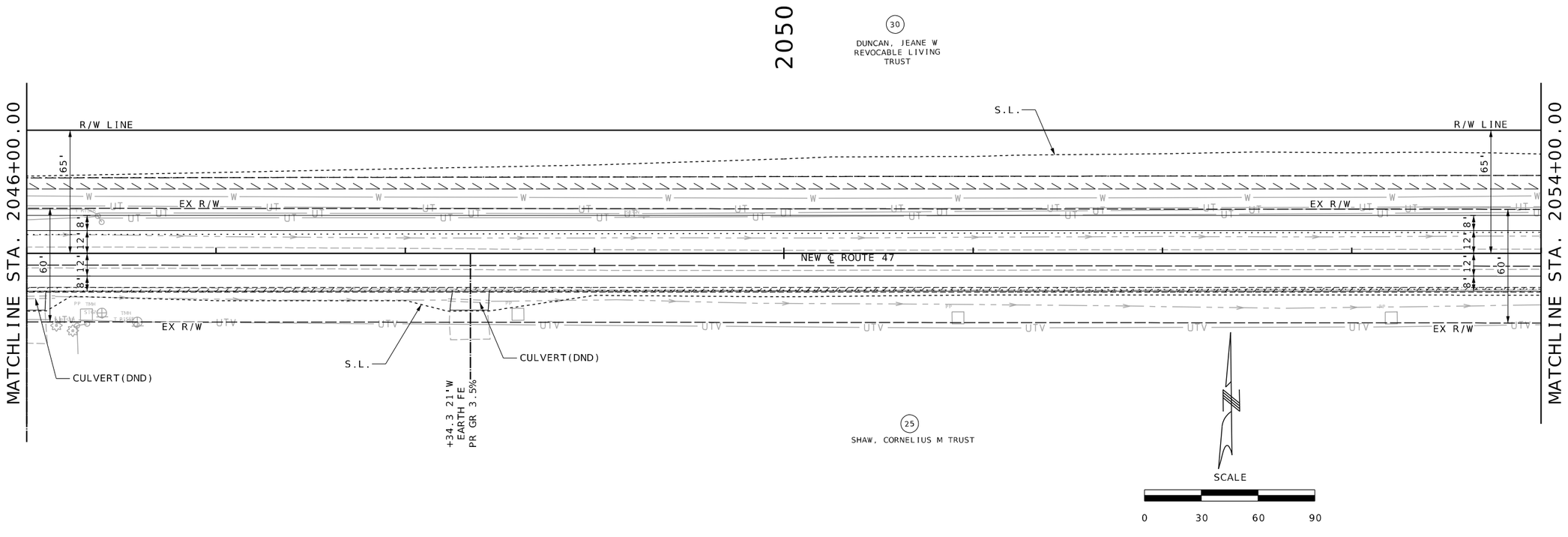

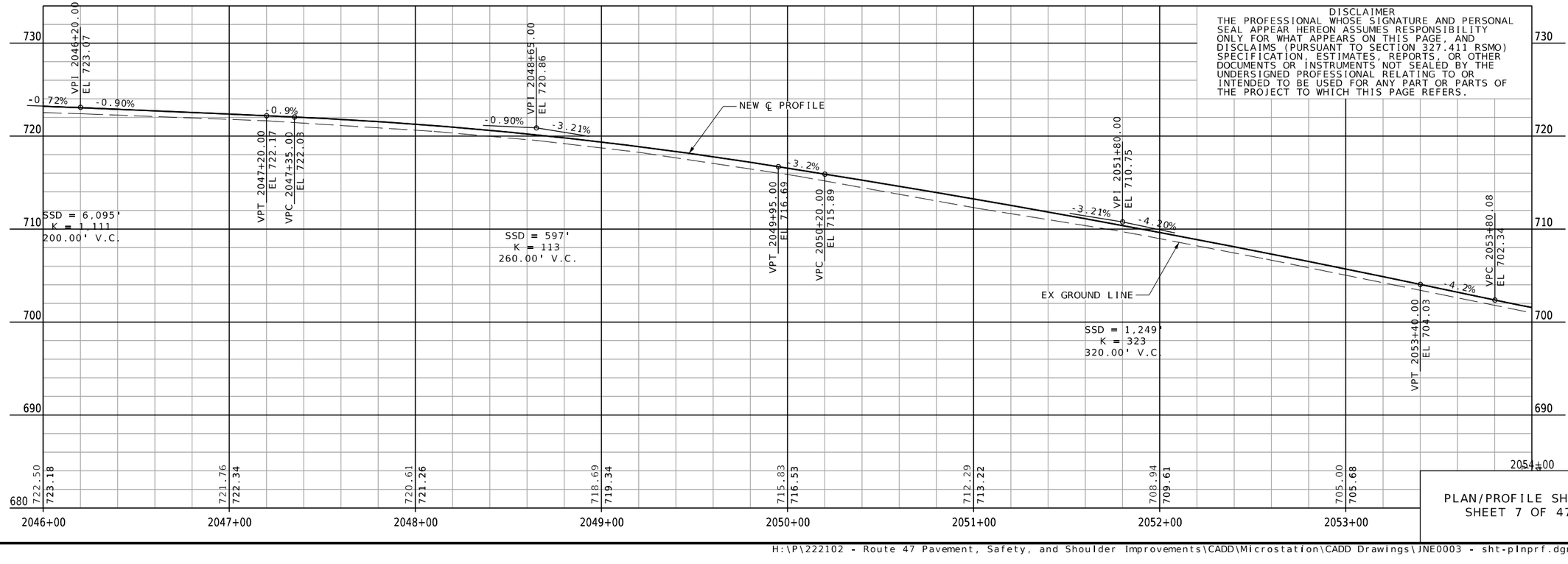

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PLAN/PROFILE SHEET
SHEET 7 OF 47

STATE OF MISSOURI
JEFFREY R. RENSING
NUMBER PE-2005012376
PROFESSIONAL ENGINEER

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DATE PREPARED
8/26/2025

ROUTE	STATE
47	MO
DISTRICT	SHEET NO.
NE	10

COUNTY
LINCOLN

JOB NO.
JNE0003

CONTRACT ID.
.

PROJECT NO.
.

BRIDGE NO.
.

DESCRIPTION	DATE
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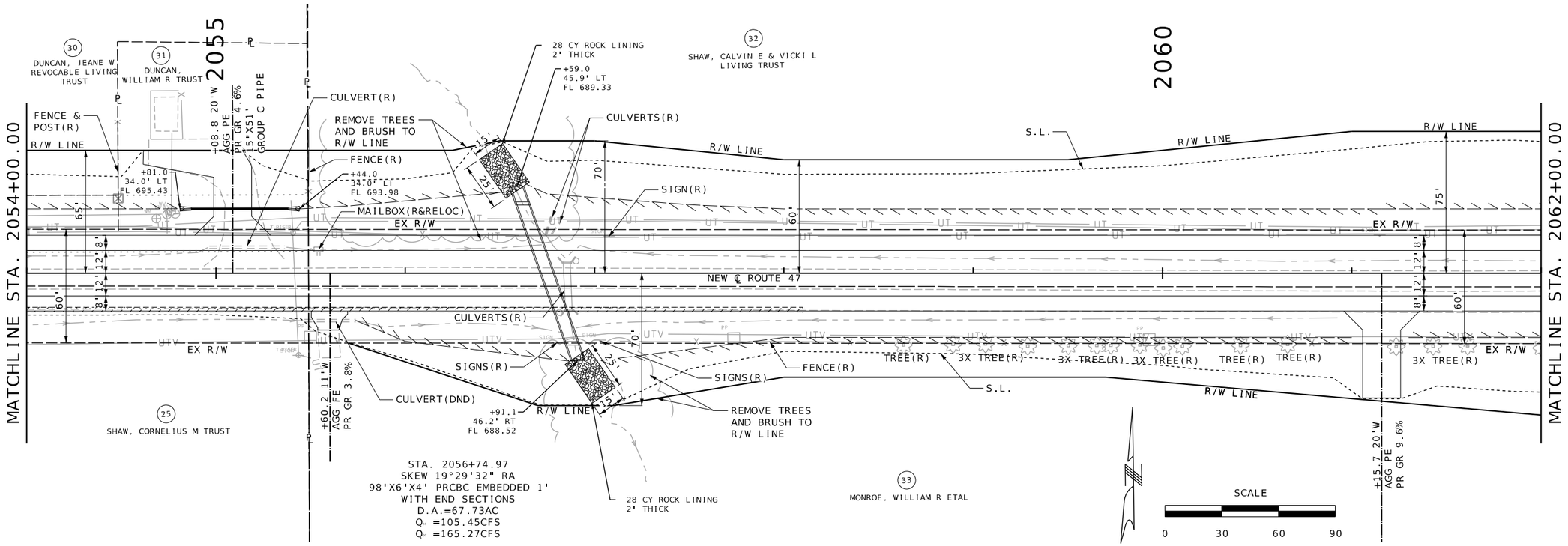

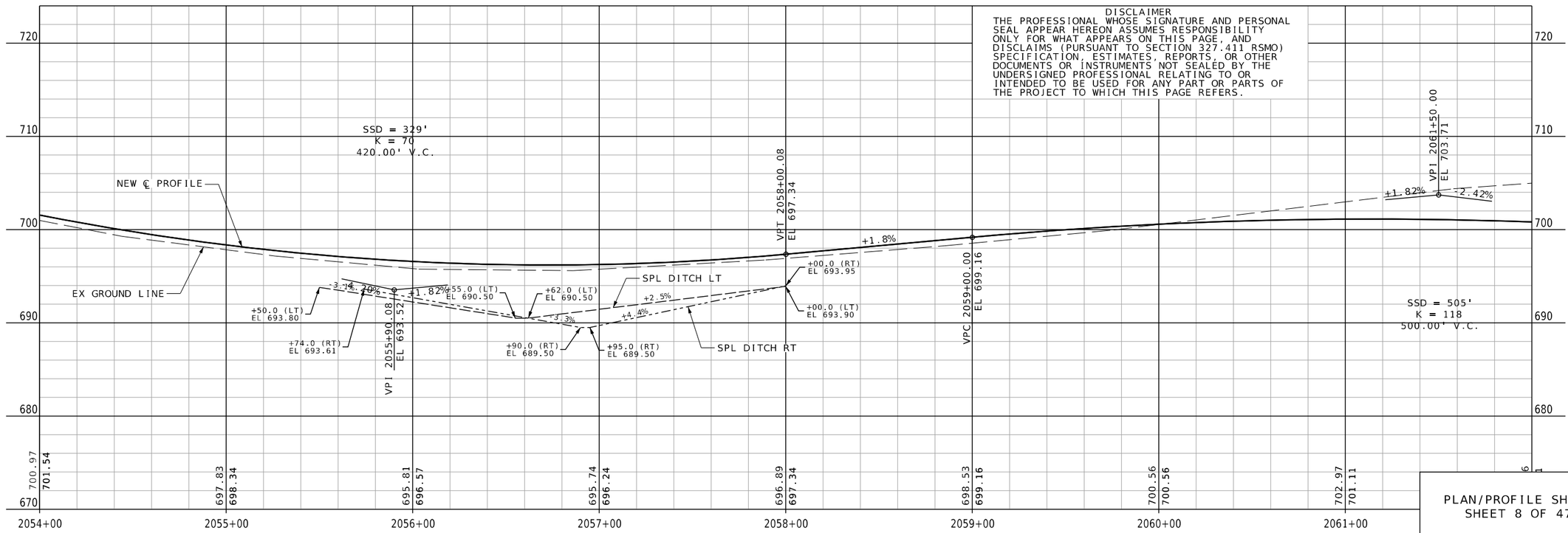

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SHEET 8 OF 47

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47	MO
DISTRICT	SHEET NO.
NE	11

COUNTY: LINCOLN
JOB NO.: JNE0003
CONTRACT ID.: .
PROJECT NO.: .
BRIDGE NO.: .

DATE	DESCRIPTION
.	.

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

OATES ASSOCIATES

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314.588.8381

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636.493.6277

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618.345.2200

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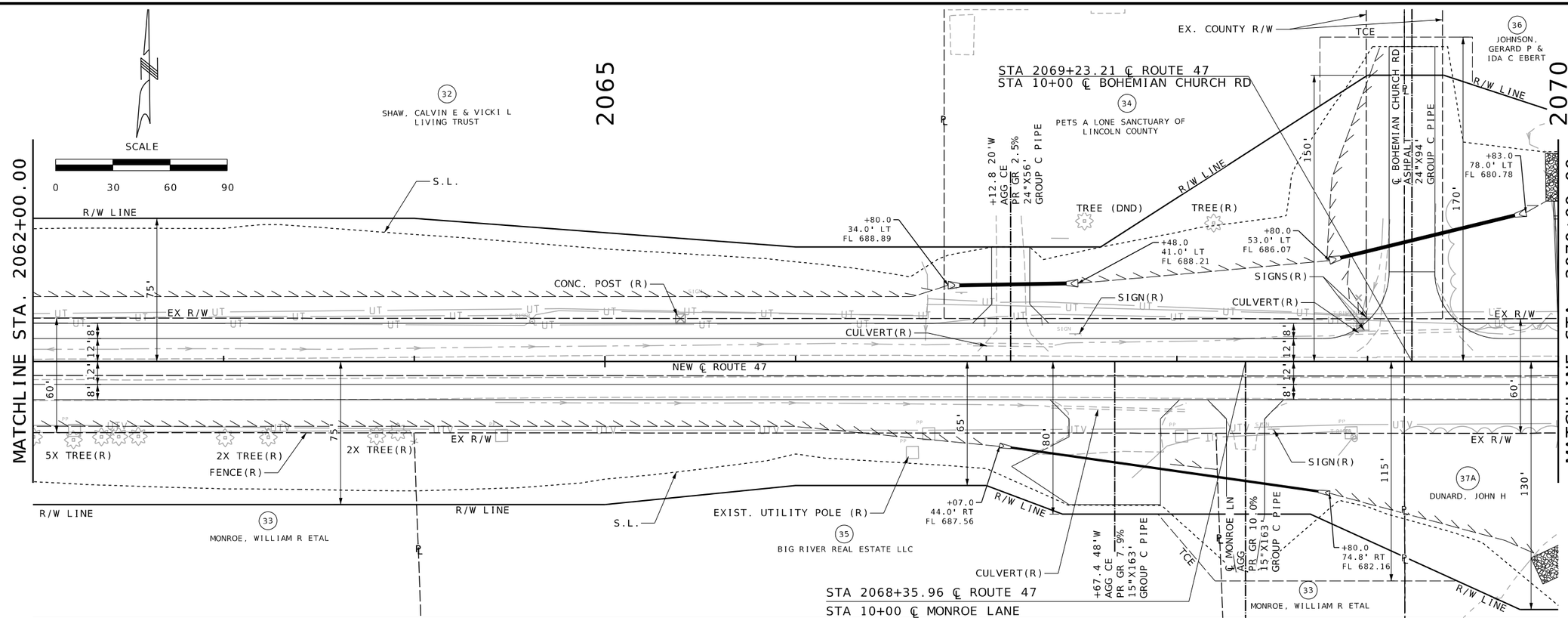
MISSOURI DESIGN FIRM PE-001166

H:\P\222102 - Route 47 Pavement, Safety, and Shoulder Improvements\CADD\Microstation\CADD Drawings\JNE0003 - sht-plnprf.dgn 7:54:42 AM 8/26/2025



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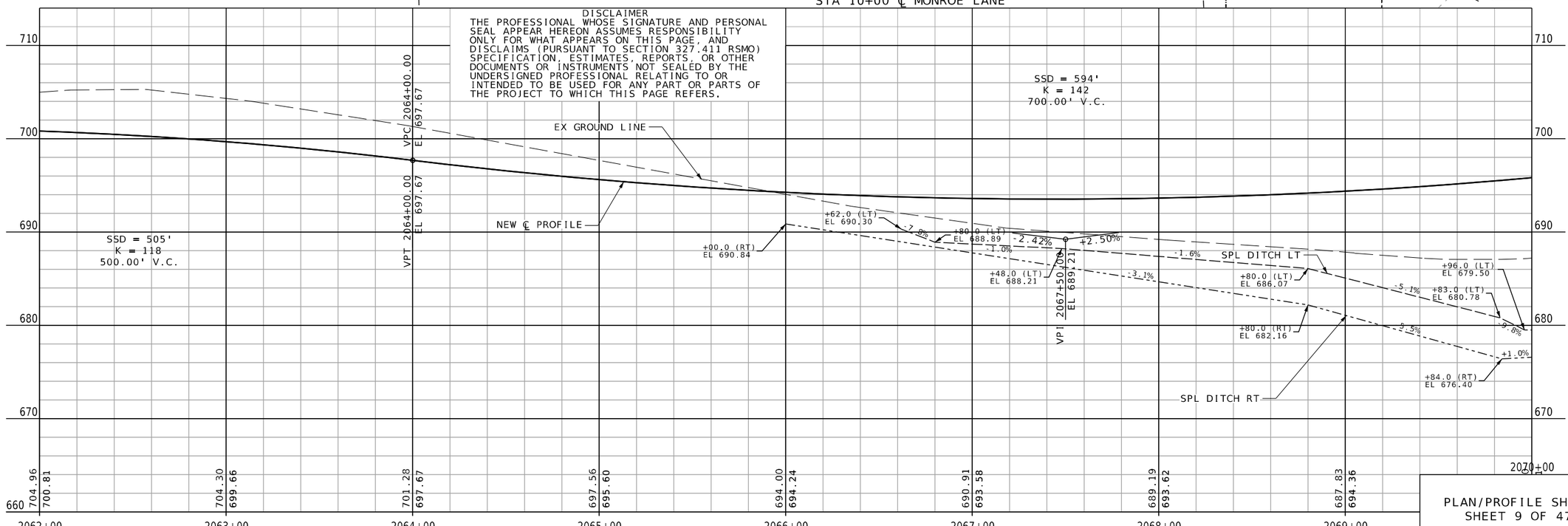

PLAN/PROFILE SHEET
SHEET 9 OF 47

H:\P\222102 - Route 47 Pavement, Safety, and Shoulder Improvements\CADD\Microstation\CADD Drawings\JNE0003 - sht-plnprf.dgn 7:55:24 AM 8/26/2025

STATE OF MISSOURI
JEFFREY R. RENSING
NUMBER PE-2006012376
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED
8/26/2025

ROUTE	STATE
47	MO
DISTRICT	SHEET NO.
NE	12

COUNTY
LINCOLN

JOB NO.
JNE0003

CONTRACT ID.
.

PROJECT NO.
.

BRIDGE NO.
.

DATE	DESCRIPTION
.	.

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MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

105 WEST CAPITOL
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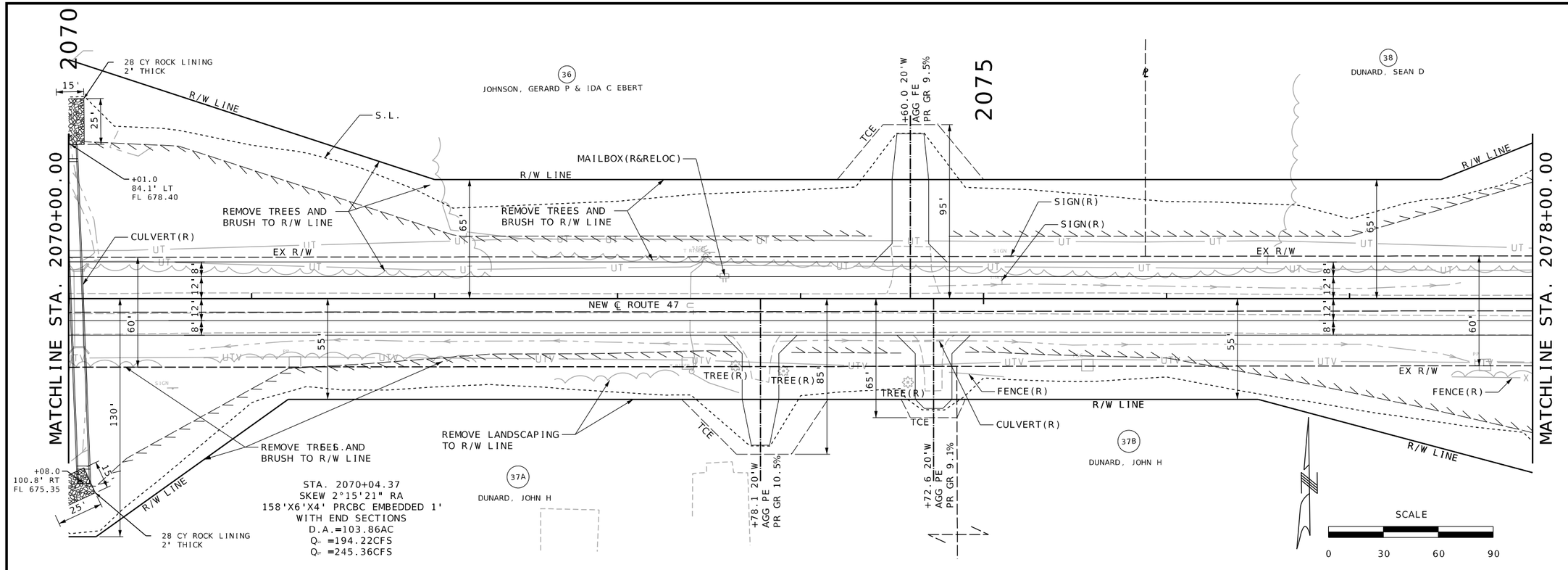
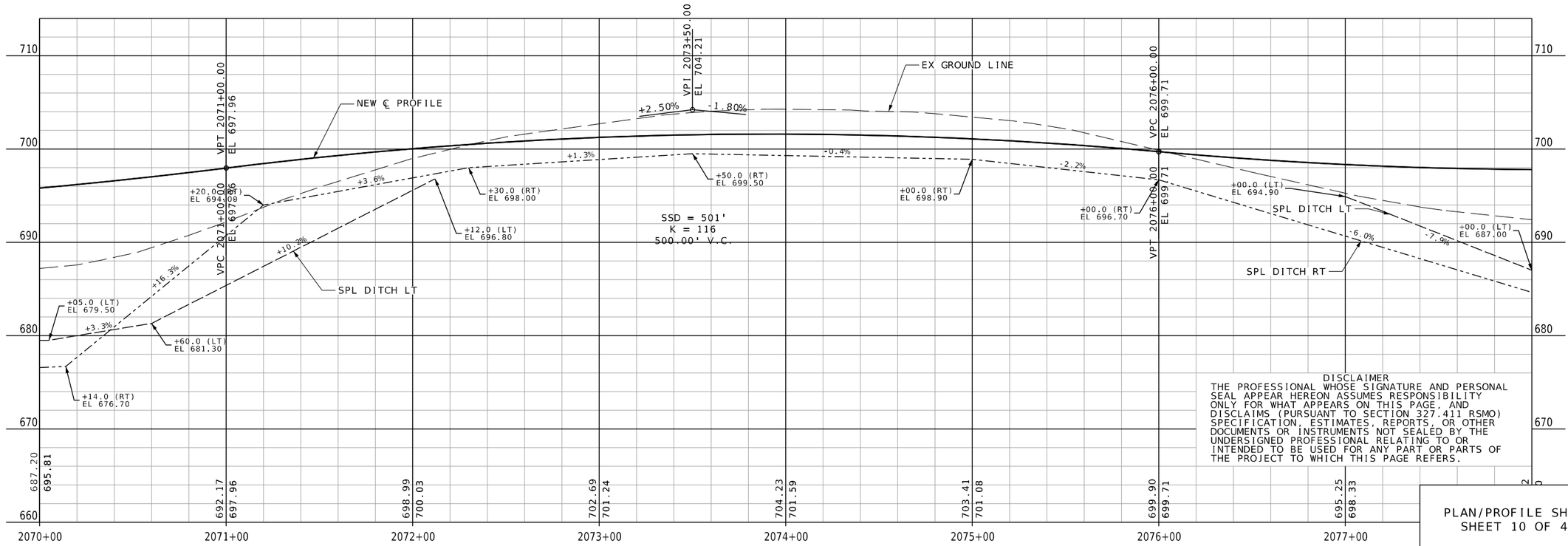
MISSOURI DESIGN FIRM PE-001166





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PLAN/PROFILE SHEET
SHEET 10 OF 47

STATE OF MISSOURI
JEFFREY R. RENSING
NUMBER PE-2006012376
PROFESSIONAL ENGINEER

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DATE PREPARED 8/26/2025

ROUTE	STATE
47	MO
DISTRICT	SHEET NO.
NE	13

COUNTY LINCOLN
JOB NO. JNE0003
CONTRACT ID. .
PROJECT NO. .
BRIDGE NO. .

DATE	DESCRIPTION
.	.

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MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
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618.345.2300
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1 South Church, Suite 200
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MISSOURI DESIGN FIRM PE-001166

STA. 2078+28.85
SKEW 4°36'34" LA
124'X42" RCP
2 - 42" FLARED END SECTIONS
D.A.=66.63AC, CLASS=3, TYPE=3
Q_{25} =125.90CFS
Q_{50} =141.21CFS

MATCHLINE STA. 2078+00.00

2080

2085

MATCHLINE STA. 2086+00.00

38
DUNARD, SEAN D

37B
DUNARD, JOHN H

39
RDD FARM LLC

+34.0
63.6' LT
FL 686.50

26 CY ROCK LINING
1.5' THICK

R/W LINE

18'

9'

6'

17'

85'

65'

EX R/W

12'

8'

60'

95'

REMOVE TREES AND
BRUSH TO R/W LINE

SIGN(R)

S.L.

CULVERT(R)

+22.8
75.5' RT
FL 683.51

9 CY ROCK LINING
1.5' THICK

+61.0
34.0' LT
FL 699.51

+92.8 20'W
AGG FE
PR GR 0.2%
15"X54'
GROUP C PIPE

+15.0
34.0' LT
FL 701.16

NEW ℄ ROUTE 47

+38.0
34.0' RT
FL 702.43

+88.0
34.0' RT
FL 700.32

+17.8 20'W
AGG PE
PR GR 0.7%
15"X51'
GROUP C PIPE

SCALE
0 30 60 90

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SSD = 508'
K = 118
580.00' V.C.

NEW ℄ PROFILE

EX GROUND LINE

+3.1%

VPT 2081+80.00
EL 703.48

VPC 2085+40.03
EL 714.64

VPI 2078+90.00
EL 694.49

+30.0 (LT)
EL 686.50

+40.0 (LT)
EL 686.50

+00.0 (LT)
EL 694.71

-1.80%

-3.10%

+13.4%

-1.7%

SPL DITCH LT

-0.8%

+30.0 (RT)
EL 683.50

+17.0 (RT)
EL 683.60

+3.6%

SPL DITCH RT

+00.0 (RT)
EL 689.70

+8.2%

+00.0 (RT)
EL 697.87

720
710
700
690
680
670

692.42 697.80
694.89 698.11
697.45 699.27
699.95 701.27
702.96 704.10
705.88 707.20
709.17 710.30
712.48 713.40

2078+00 2079+00 2080+00 2081+00 2082+00 2083+00 2084+00 2085+00

PLAN/PROFILE SHEET
SHEET 11 OF 47

STATE OF MISSOURI
JEFFREY R. RENSING
NUMBER PE-2006012376
PROFESSIONAL ENGINEER

"THIS SHEET" HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED
8/26/2025

ROUTE	STATE
47	MO
DISTRICT	SHEET NO.
NE	14

COUNTY
LINCOLN

JOB NO.
JNE0003

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DESCRIPTION	DATE

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MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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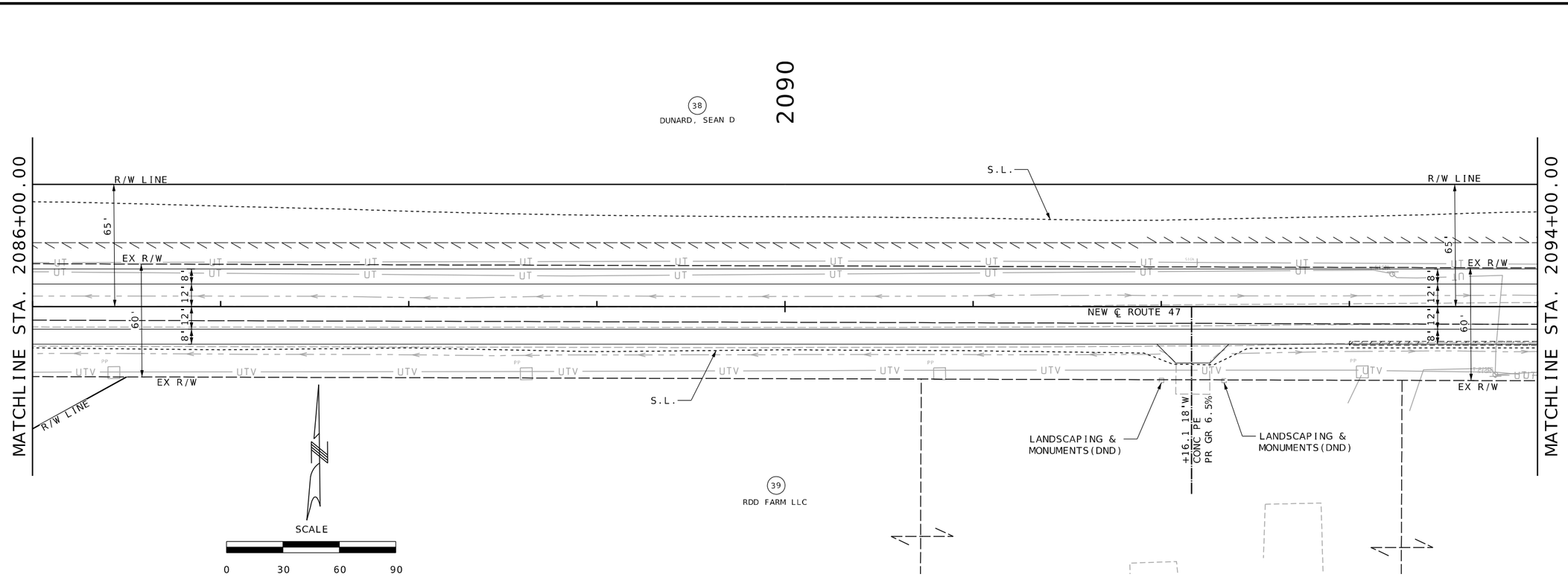
MISSOURI DESIGN FIRM PE-001166



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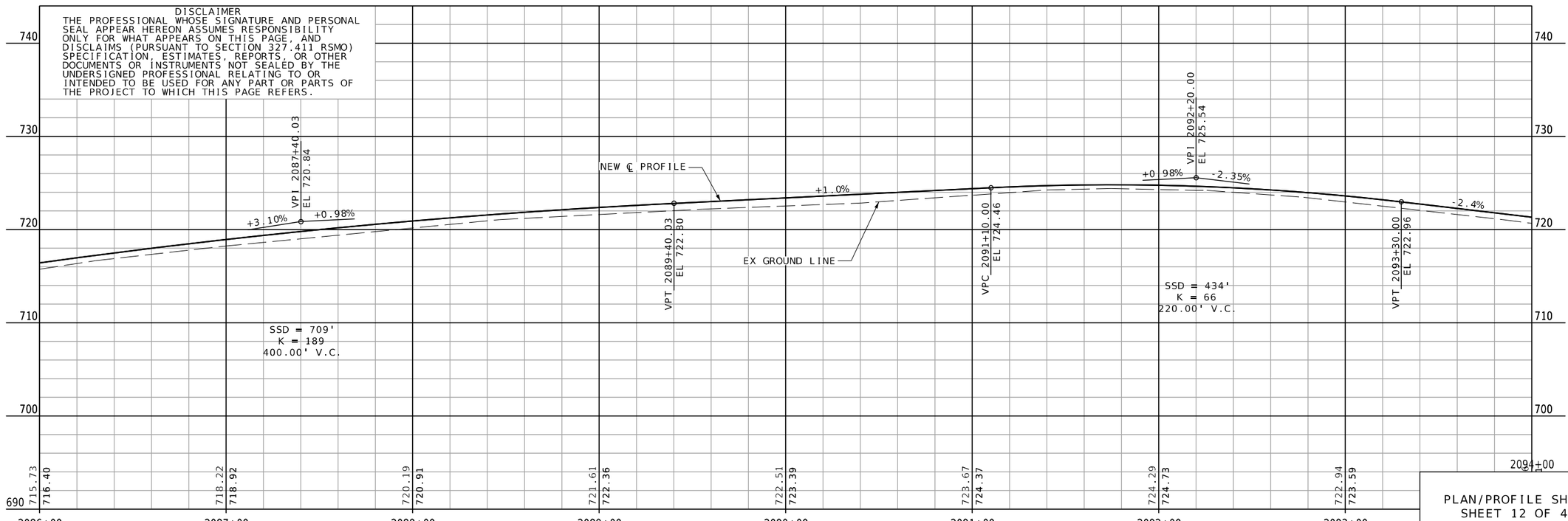

PLAN/PROFILE SHEET
SHEET 12 OF 47

H:\P\222102 - Route 47 Pavement, Safety, and Shoulder Improvements\CADD\Microstation\CADD Drawings\JNE0003 - sht-plnprf.dgn 7:56:34 AM 8/26/2025

STATE OF MISSOURI
JEFFREY R. RENSING
NUMBER PE-2006012376
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED
8/26/2025

ROUTE	STATE
47	MO
DISTRICT	SHEET NO.
NE	15

COUNTY
LINCOLN

JOB NO.
JNE0003

CONTRACT ID.
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PROJECT NO.
.

BRIDGE NO.
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DESCRIPTION	DATE
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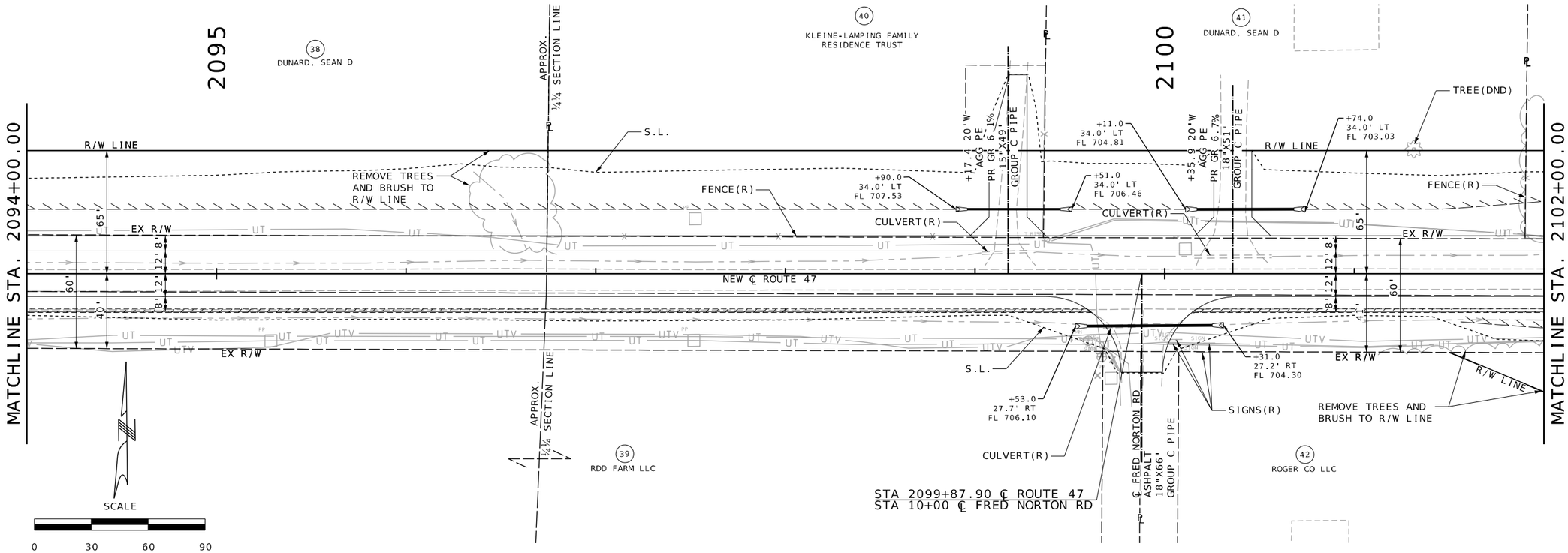

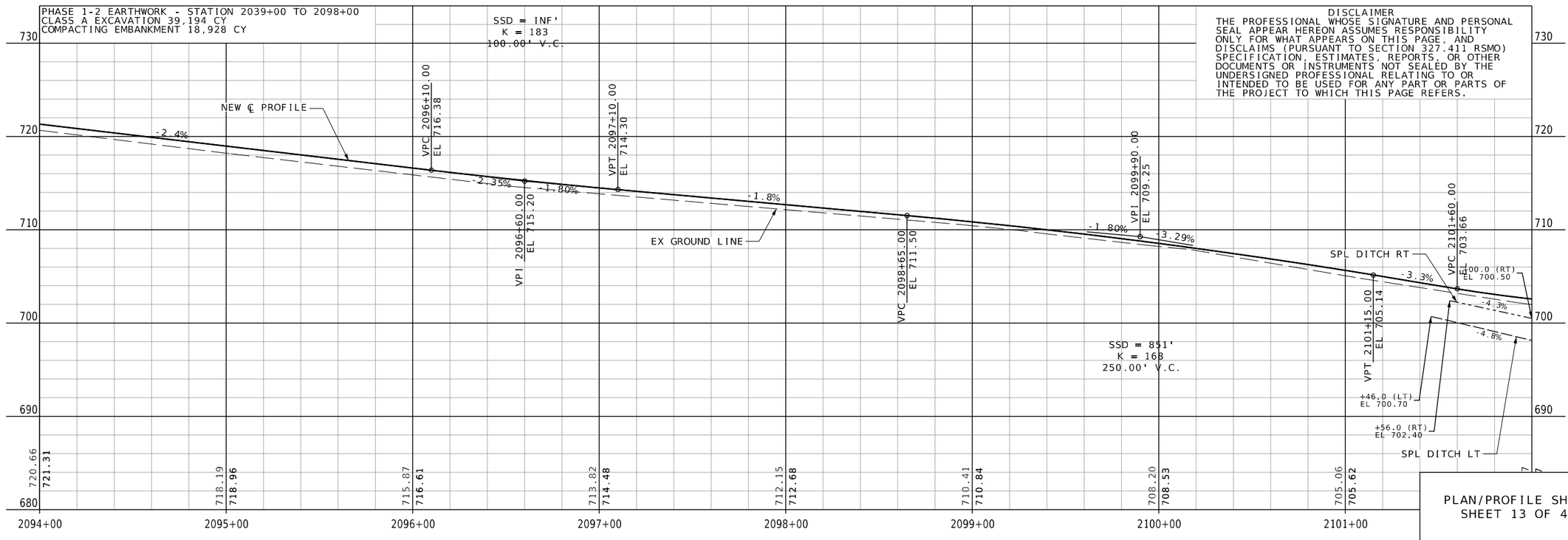

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PLAN/PROFILE SHEET
SHEET 13 OF 47

STATE OF MISSOURI
JEFFREY R. RENSING
NUMBER PE-2006012376
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED 8/26/2025

ROUTE	STATE
47	MO
DISTRICT	SHEET NO.
NE	16

COUNTY LINCOLN
JOB NO. JNE0003
CONTRACT ID. .
PROJECT NO. .
BRIDGE NO. .

DESCRIPTION	DATE
.	.

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

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H:\P\222102 - Route 47 Pavement, Safety, and Shoulder Improvements\CADD\Microstation\CADD Drawings\JNE0003 - sht-plnprf.dgn 7:56:56 AM 8/26/2025

STA. 2102+53.40
SKEW 1°06'55" LA
158'X5'X3' PRCBC
WITH END SECTIONS
D.A.=56.84AC
Q_{10} =120.27CFS
Q_{50} =138.68CFS

2105

MATCHLINE STA. 2102+00.00

MATCHLINE STA. 2110+00.00

55 CY ROCK LINING
2' THICK

R/W LINE

REMOVE TREES AND
BRUSH TO R/W LINE

+57.0
44.0' LT
FL 695.37

SIGN(R)

FENCE(R)

EX R/W

MAILBOX(R&RELOC)

158' X 3' PRCBC

PR 5%

60'

65'

75'

12'

8'

18'

20'

16'

30'

23'

9'

22'

13'

CULVERT(R)

R/W LINE

+56.0
44.3' RT
FL 695.10

22 CY ROCK LINING
2' THICK

REMOVE TREES AND
BRUSH TO R/W LINE

(42)
ROGER CO LLC

+89.0 13.1'W
AGG. PE
PR GR 3.4%

CULVERT(UIP)

S.L.

+50.0
34.0' LT
FL 704.45

+90.0 20'W
AGG. PE
PR GR 5.2%
18"X58'
GROUP C PIPE

(43)
KLEINE, JOSEPH C LIVING TRUST

CULVERT(R)

SIGN(R)

MAILBOX(R&RELOC)

+20.0
34.0' LT
FL 706.20

NEW ℄ ROUTE 47

84.6°

S.L.

EX R/W

+52.2 27'W
EARTH FE
PR GR 2.5%

CULVERT(UIP)

EX R/W

BRIGHT, JASON M & TARA L

HAGENHOFF, AARON M & TAYLOR A

S.L.

R/W LINE

FENCE(R)

65'

EX R/W

8'

12'

8'

44'

60'

SCALE

0 30 60 90

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SSD = 192'
K = 34
200.00' V.C.

SSD = INF'
K = 129
105.00' V.C.

SSD = 782'
K = 115
180.00' V.C.

SSD = INF'
K = 249
200.00' V.C.

NEW ℄ PROFILE

EX GROUND LINE

VPT 2103+60.00
EL 702.90

VPC 2105+67.50
EL 708.17

VPT 2106+72.50
EL 711.26

VPI 2106+20.00
EL 709.50

VPC 2107+00.00
EL 712.18

VPI 2107+90.00
EL 715.20

VPT 2108+80.00
EL 716.81

VPC 2108+80.00
EL 716.81

VPI 2109+80.00
EL 718.61

+00.0 (RT)
EL 700.50

+55.0 (LT)
EL 695.50

+50.0 (RT)
EL 695.50

+60.0 (LT)
EL 695.50

+62.0 (RT)
EL 695.20

VPI 2104+60.00
EL 700.37

+60.0 (RT)
EL 700.00

+55.0 (LT)
EL 699.50

SPL DITCH LT

SPL DITCH RT

-3.2%
-10.0%
-4.8%
-2.5%
+2.54%
+4.2%
+4.9%
+2.5%
+3.4%
+3.35%
+1.79%
+2.60%

730
720
710
700
690
680

701.97 702.57
701.48 701.91
703.72 703.92
706.13 706.46
708.44 709.03
711.53 712.18
714.49 715.10
716.56 717.18

2102+00 2103+00 2104+00 2105+00 2106+00 2107+00 2108+00 2109+00

PLAN/PROFILE SHEET
SHEET 14 OF 47

STATE OF MISSOURI
JEFFREY R. RENSING
NUMBER PE-2006012376
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED
8/26/2025

ROUTE	STATE
47	MO
DISTRICT	SHEET NO.
NE	17

COUNTY
LINCOLN

JOB NO.
JNE0003

CONTRACT ID.
.

PROJECT NO.
.

BRIDGE NO.
.

DESCRIPTION	DATE
.	.

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

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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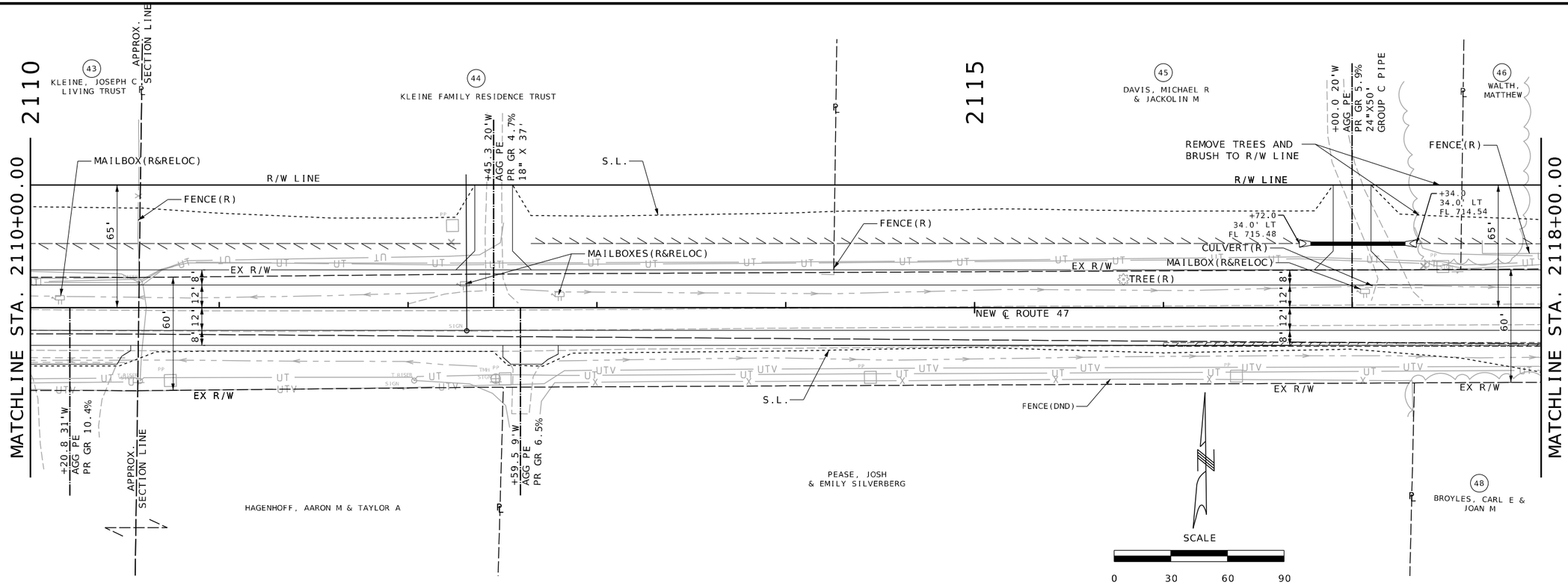

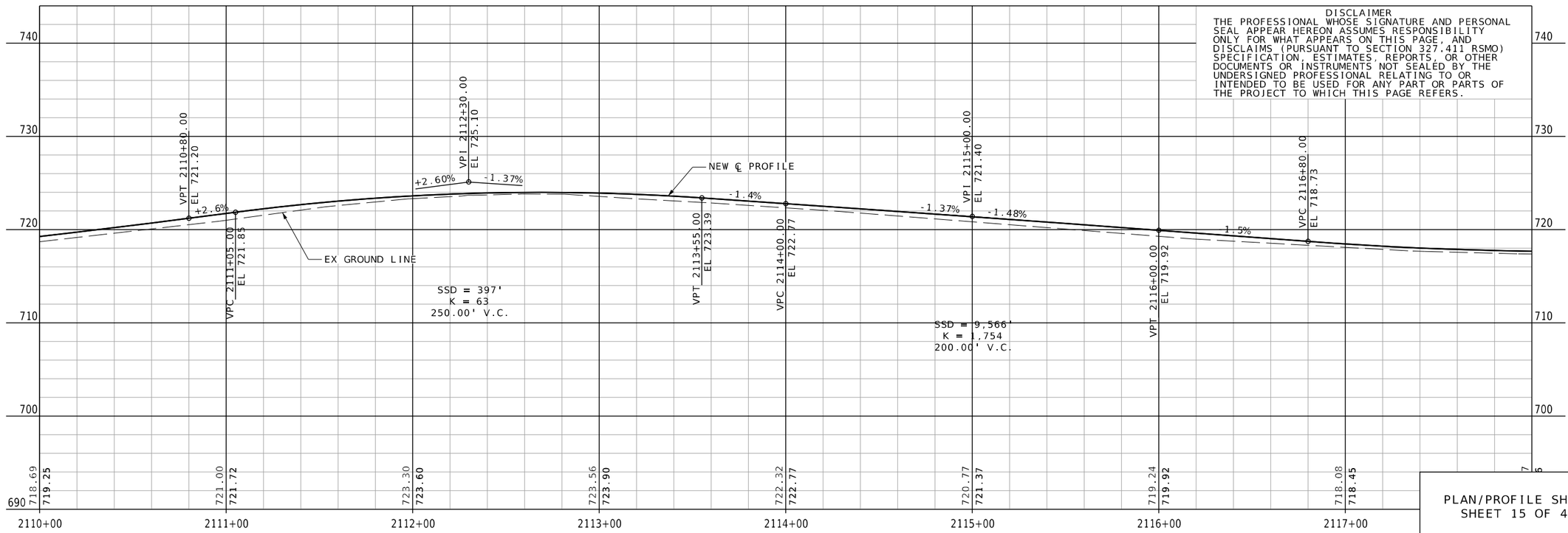

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PLAN/PROFILE SHEET
SHEET 15 OF 47

STATE OF MISSOURI
JEFFREY R. RENSING
NUMBER PE-2006012376
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED 8/26/2025

ROUTE	STATE
47	MO
DISTRICT	SHEET NO.
NE	18

COUNTY LINCOLN
JOB NO. JNE0003
CONTRACT ID. .
PROJECT NO. .
BRIDGE NO. .

DESCRIPTION	DATE
.	.

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

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

105 WEST CAPITOL
JEFFERSON CITY, MO 65102
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Belleville, IL 62220
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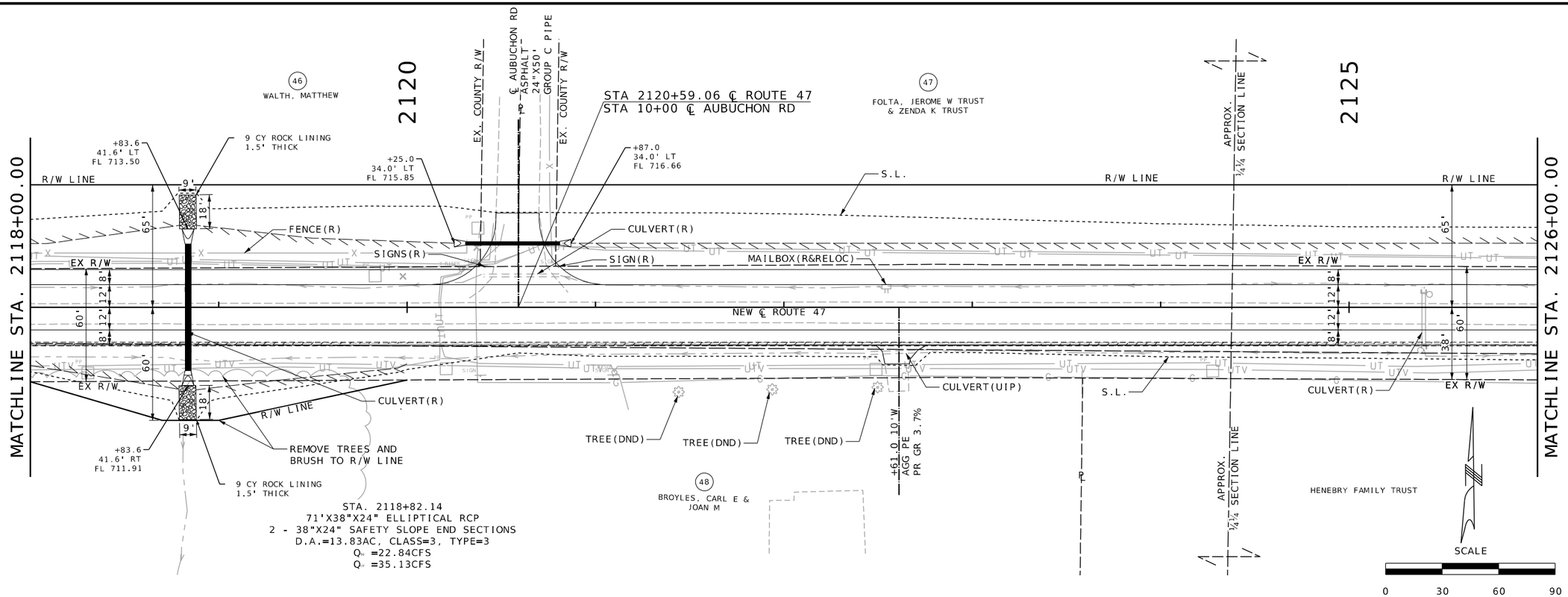
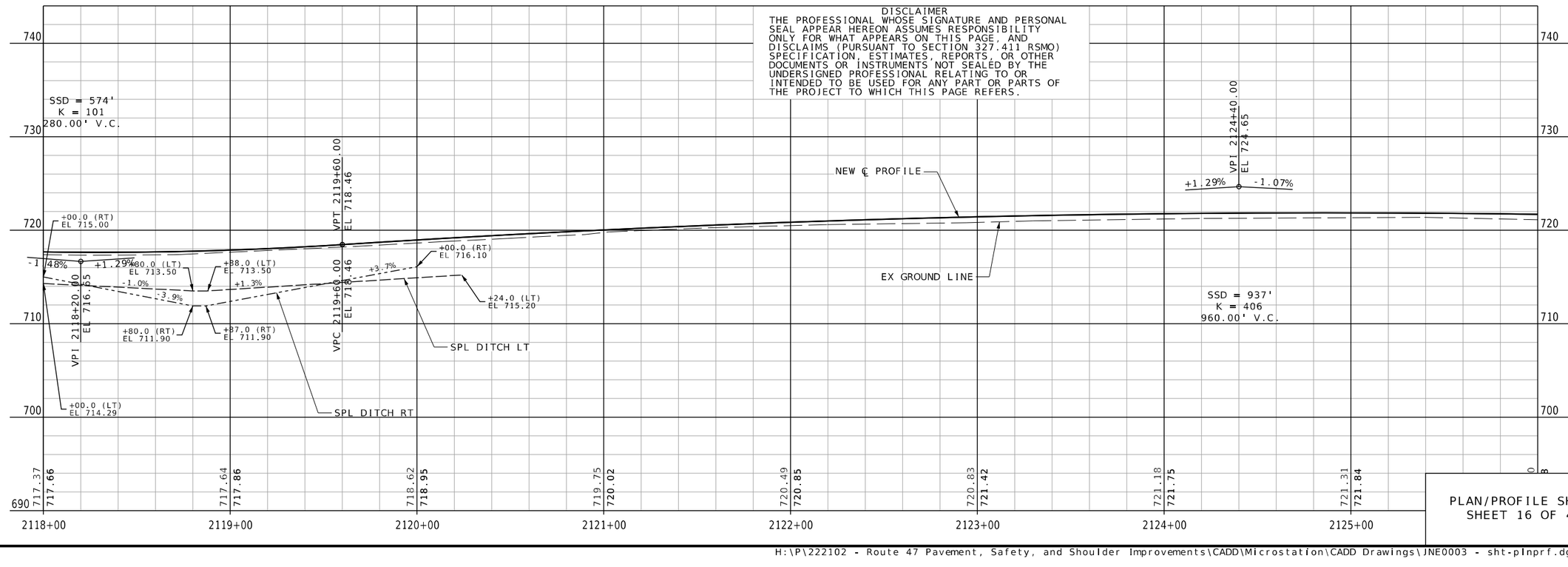
MISSOURI DESIGN FIRM PE-001166





PLAN/PROFILE SHEET
SHEET 16 OF 47

STATE OF MISSOURI
JEFFREY R. RENSING
NUMBER PE-2006012376
PROFESSIONAL ENGINEER

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DATE PREPARED: 8/26/2025

ROUTE	STATE
47	MO
DISTRICT	SHEET NO.
NE	19

COUNTY: LINCOLN
JOB NO.: JNE0003
CONTRACT ID.:
PROJECT NO.:
BRIDGE NO.:

DATE	DESCRIPTION
.	.

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

OATES ASSOCIATES

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314.588.8381

St. Charles
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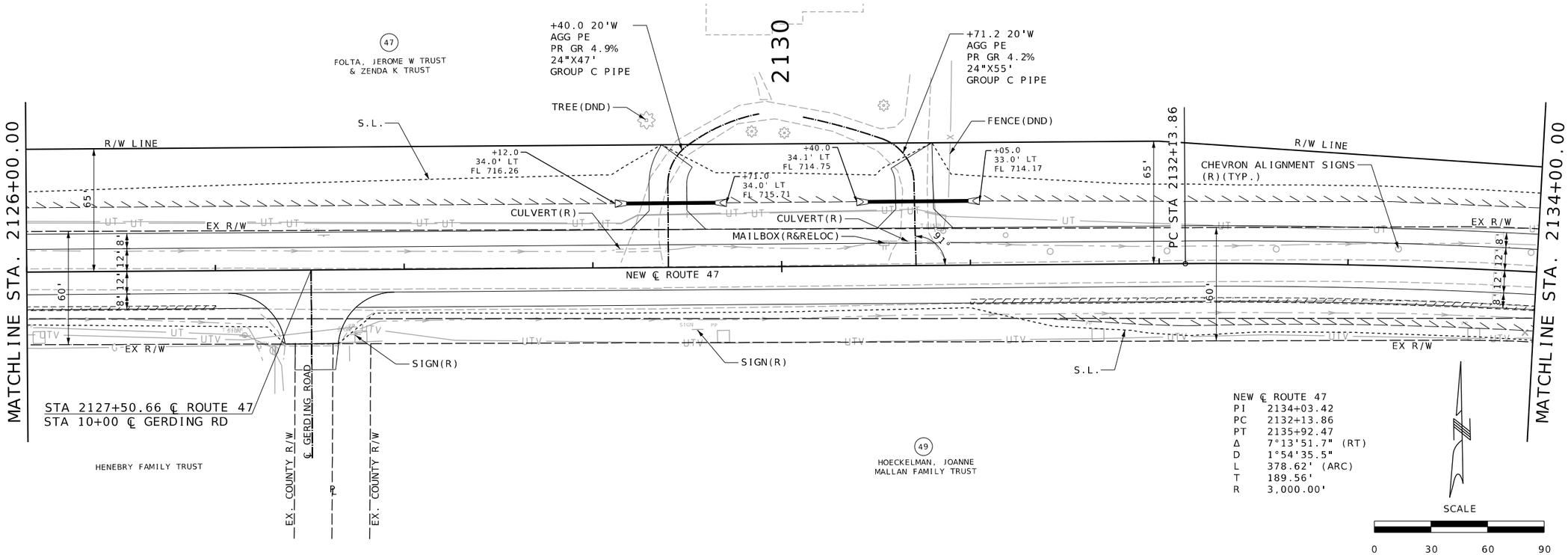
H:\P\222102 - Route 47 Pavement, Safety, and Shoulder Improvements\CADD\Microstation\CADD Drawings\JNE0003 - sht-plnprf.dgn 7:58:08 AM 8/26/2025



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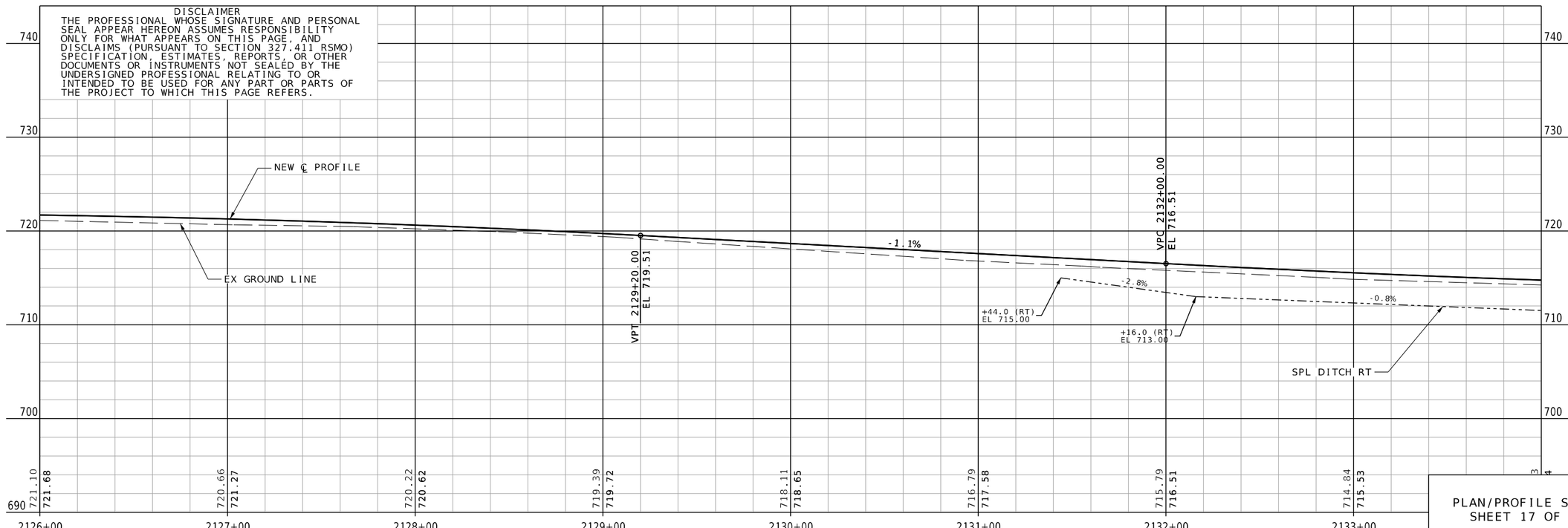

PLAN/PROFILE SHEET
SHEET 17 OF 47

STATE OF MISSOURI
JEFFREY R. RENSING
NUMBER PE-2006012376
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED 8/26/2025
ROUTE 47 | STATE MO
DISTRICT NE | SHEET NO. 20
COUNTY LINCOLN
JOB NO. JNE0003
CONTRACT ID. .
PROJECT NO. .
BRIDGE NO. .

DESCRIPTION | DATE

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314.588.8881
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820 South Main, Suite 309
St. Charles, MO 63301
636.493.6277
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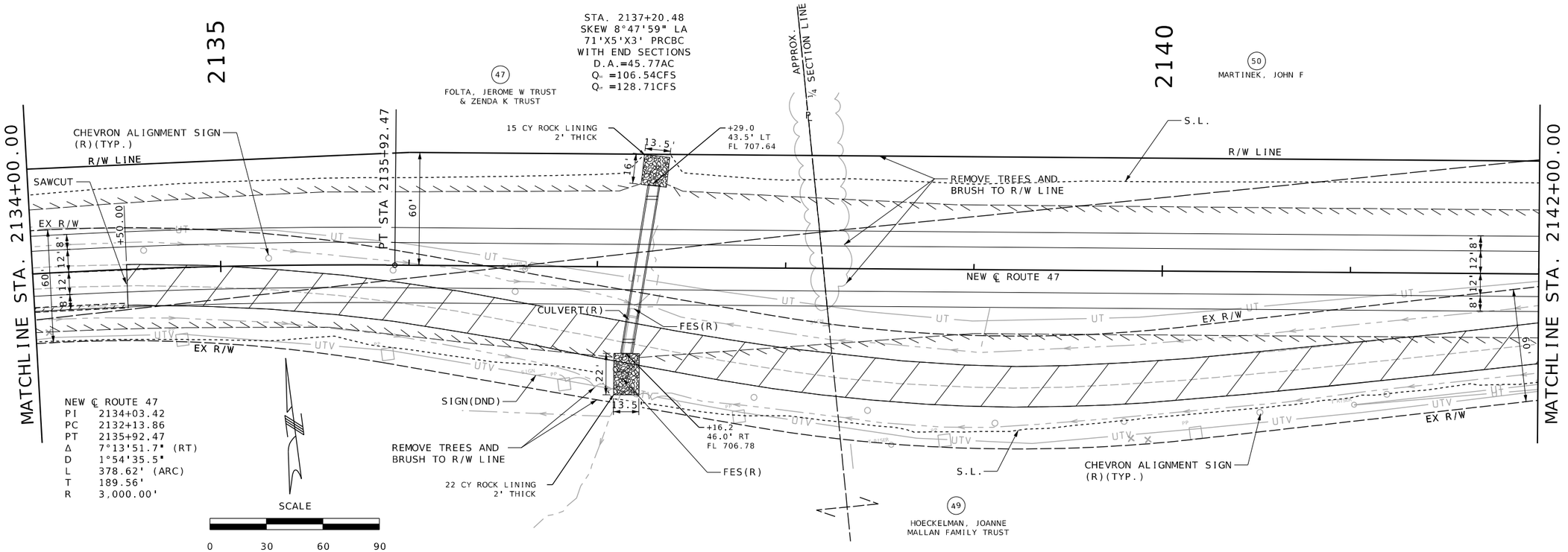

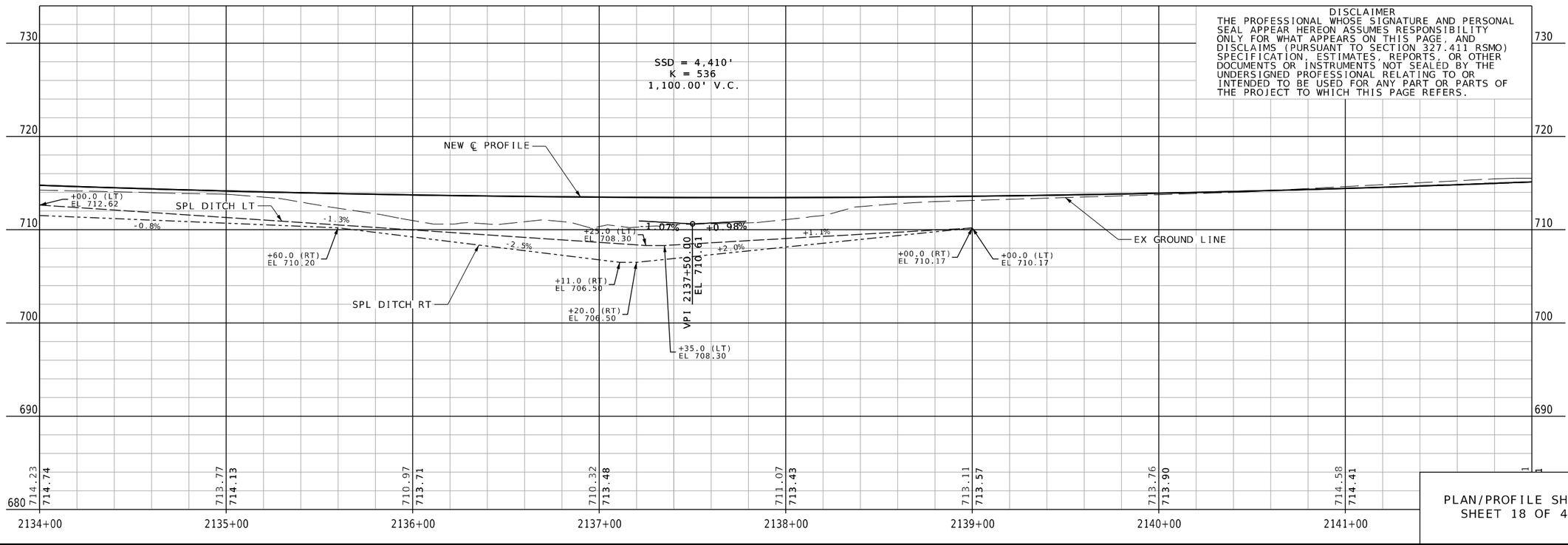

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PLAN/PROFILE SHEET
SHEET 18 OF 47

STATE OF MISSOURI
JEFFREY R. RENSING
NUMBER PE-2006012376
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED
8/26/2025

ROUTE	STATE
47	MO
DISTRICT	SHEET NO.
NE	21

COUNTY
LINCOLN

JOB NO.
JNE0003

CONTRACT ID.
.

PROJECT NO.
.

BRIDGE NO.
.

DESCRIPTION	DATE
.	.

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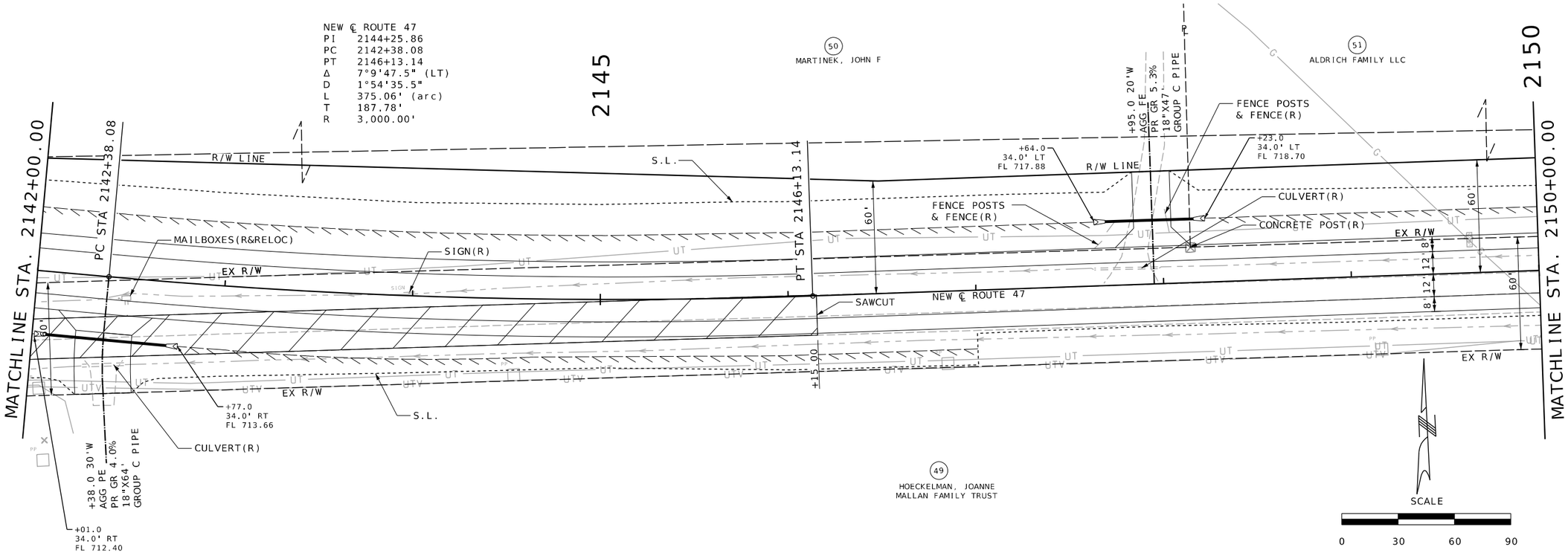
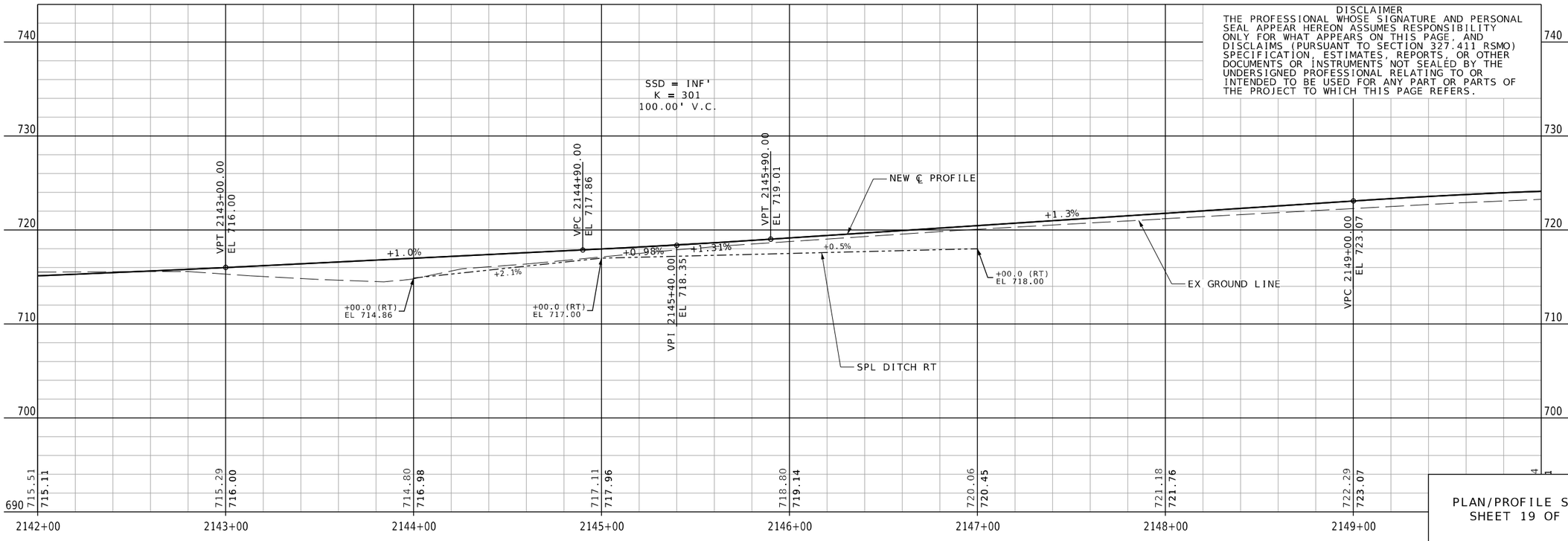
MISSOURI DESIGN FIRM PE-001166

NEW ℄ ROUTE 47
PI 2144+25.86
PC 2142+38.08
PT 2146+13.14
Δ 7°9'47.5" (LT)
D 1°54'35.5"
L 375.06' (arc)
T 187.78'
R 3,000.00'





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PLAN/PROFILE SHEET
SHEET 19 OF 47

STATE OF MISSOURI
JEFFREY R. RENSING
NUMBER PE-2006012376
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED
8/26/2025

ROUTE	STATE
47	MO
DISTRICT	SHEET NO.
NE	22

COUNTY
LINCOLN

JOB NO.
JNE0003

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

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DESCRIPTION	DATE

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Belleville, IL 62220
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St. Charles, MO 63301
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MISSOURI DESIGN FIRM PE-001166

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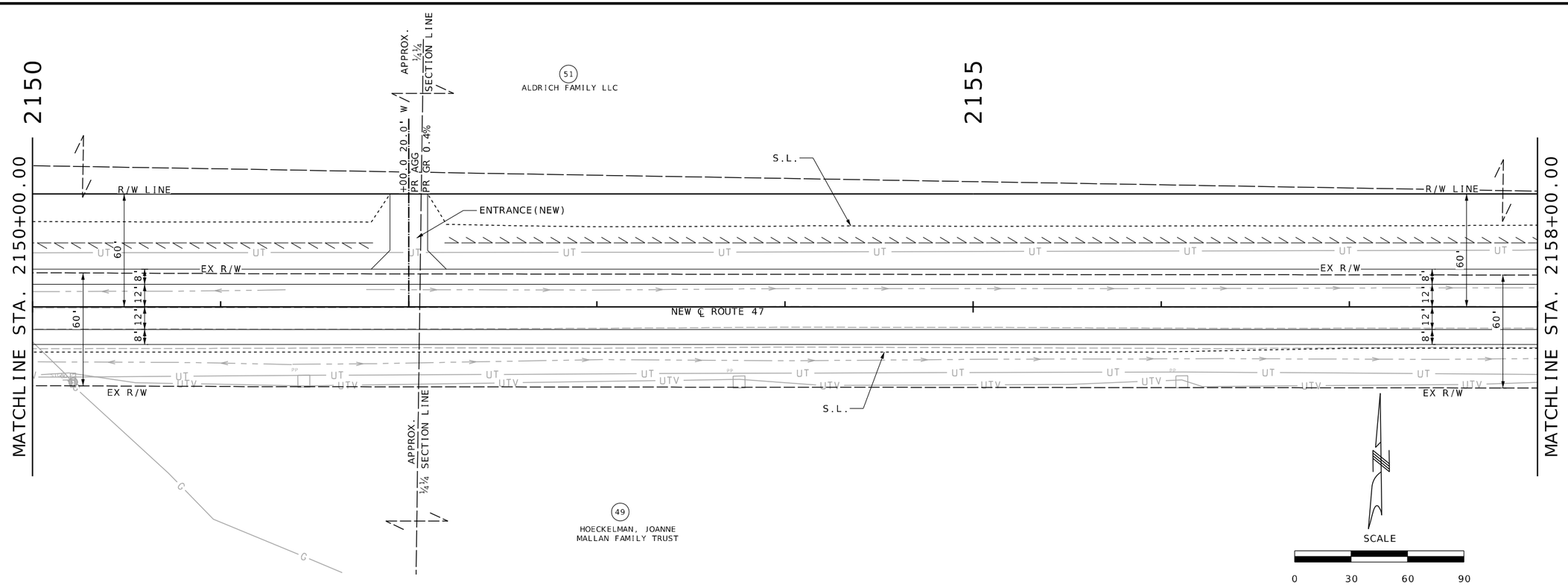

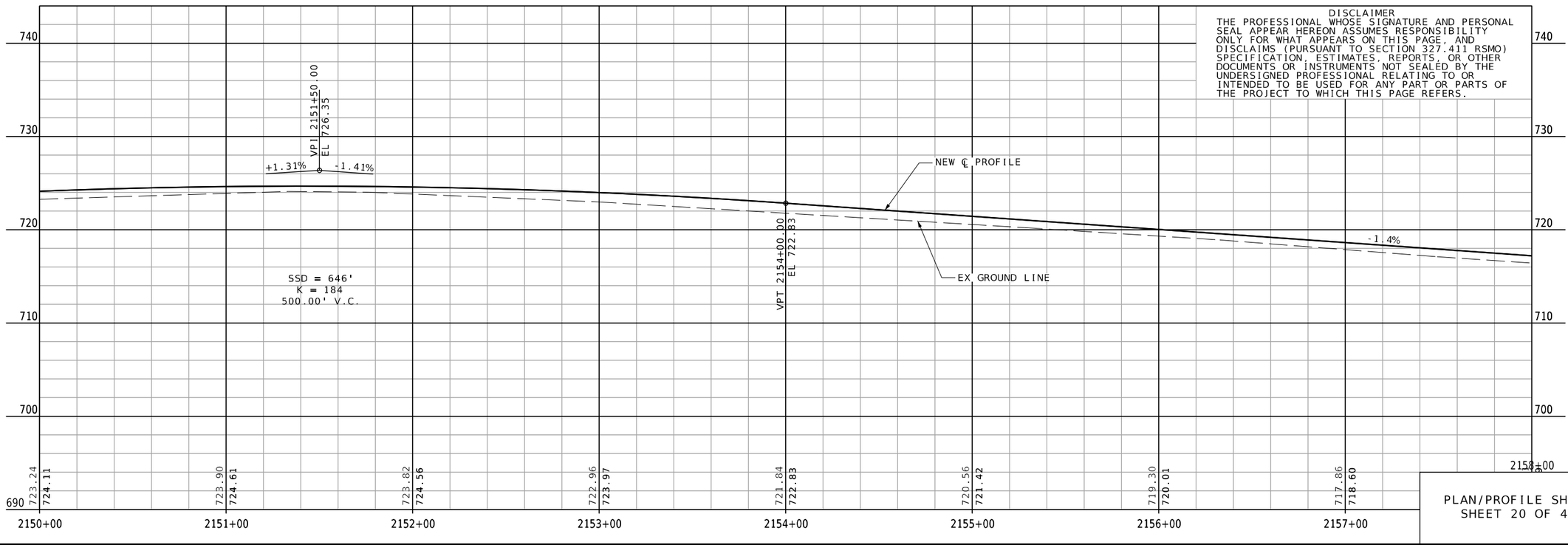

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PLAN/PROFILE SHEET
SHEET 20 OF 47

STATE OF MISSOURI
JEFFREY R. RENSING
NUMBER PE-2006012376
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED	
8/26/2025	
ROUTE	STATE
47	MO
DISTRICT	SHEET NO.
NE	23

COUNTY
LINCOLN

JOB NO.
JNE0003

CONTRACT ID.
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PROJECT NO.
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BRIDGE NO.
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DATE	DESCRIPTION
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820 South Main, Suite 309
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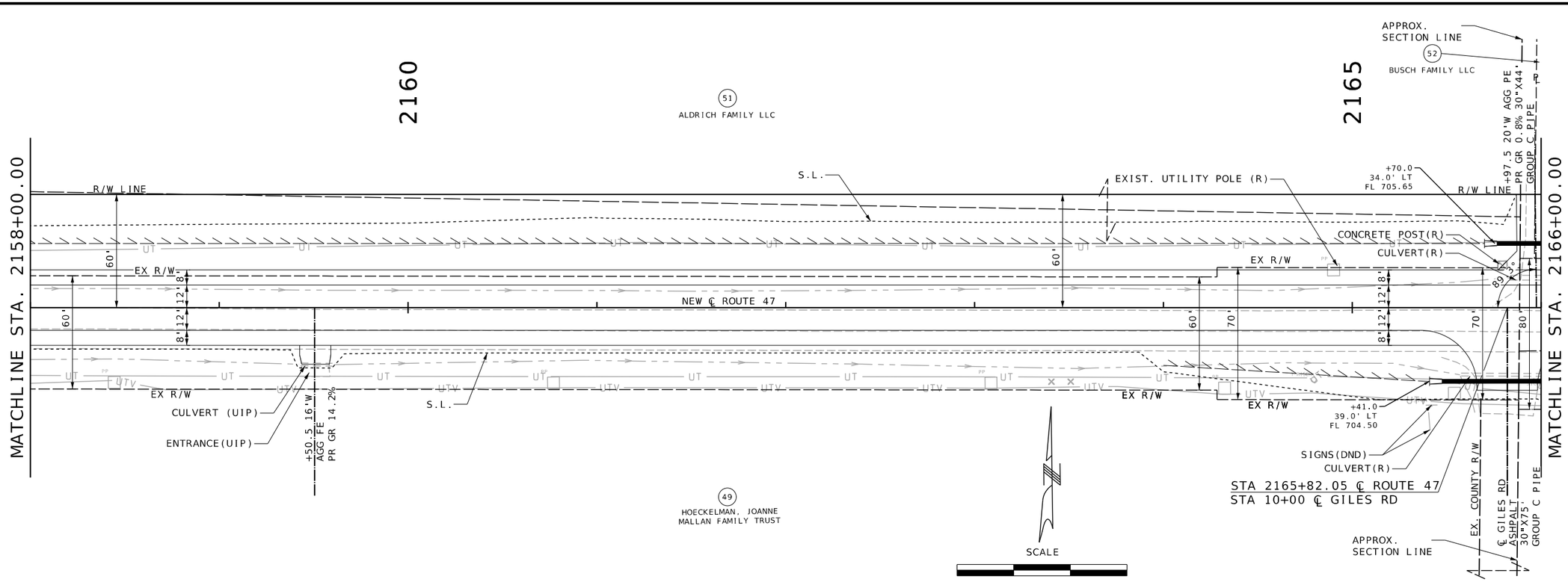

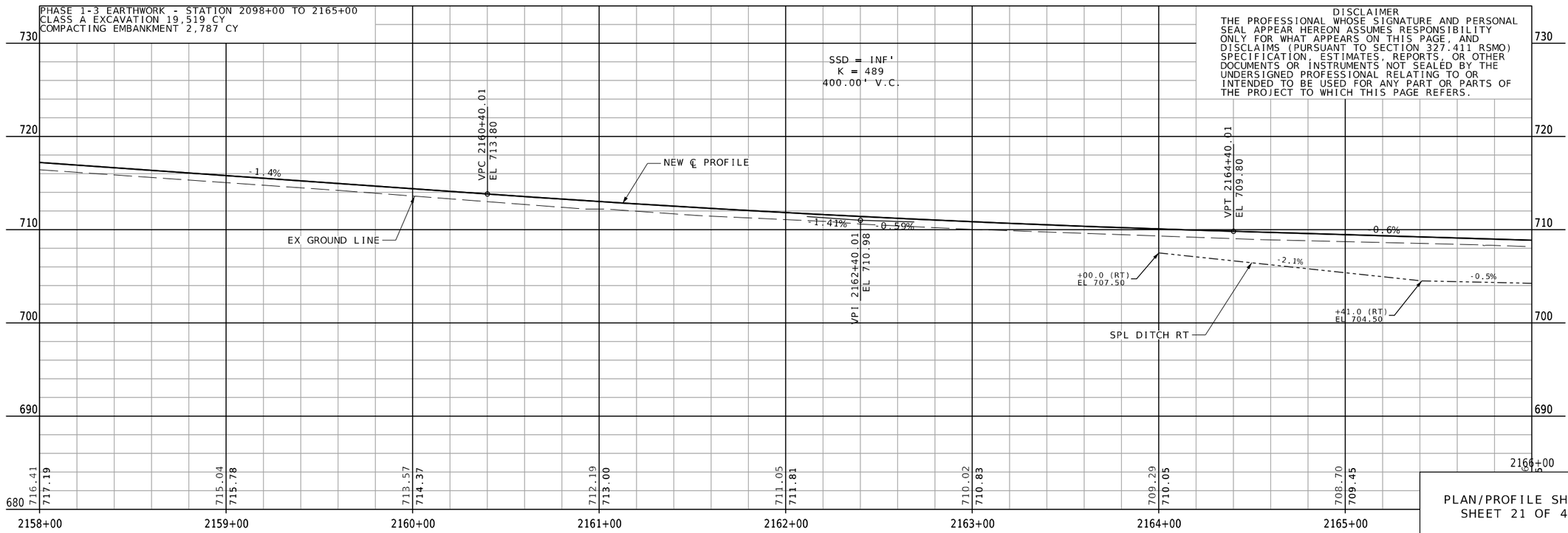

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PLAN/PROFILE SHEET
SHEET 21 OF 47

STATE OF MISSOURI
JEFFREY R. RENSING
NUMBER PE-2006012376
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED
8/26/2025

ROUTE	STATE
47	MO
DISTRICT	SHEET NO.
NE	24

COUNTY
LINCOLN

JOB NO.
JNE0003

CONTRACT ID.
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PROJECT NO.
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BRIDGE NO.
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DESCRIPTION	DATE
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St. Charles, MO 63301
636.493.6277
Collinsville
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Collinsville, IL 62234
618.345.2100
Belleville
1 South Church, Suite 200
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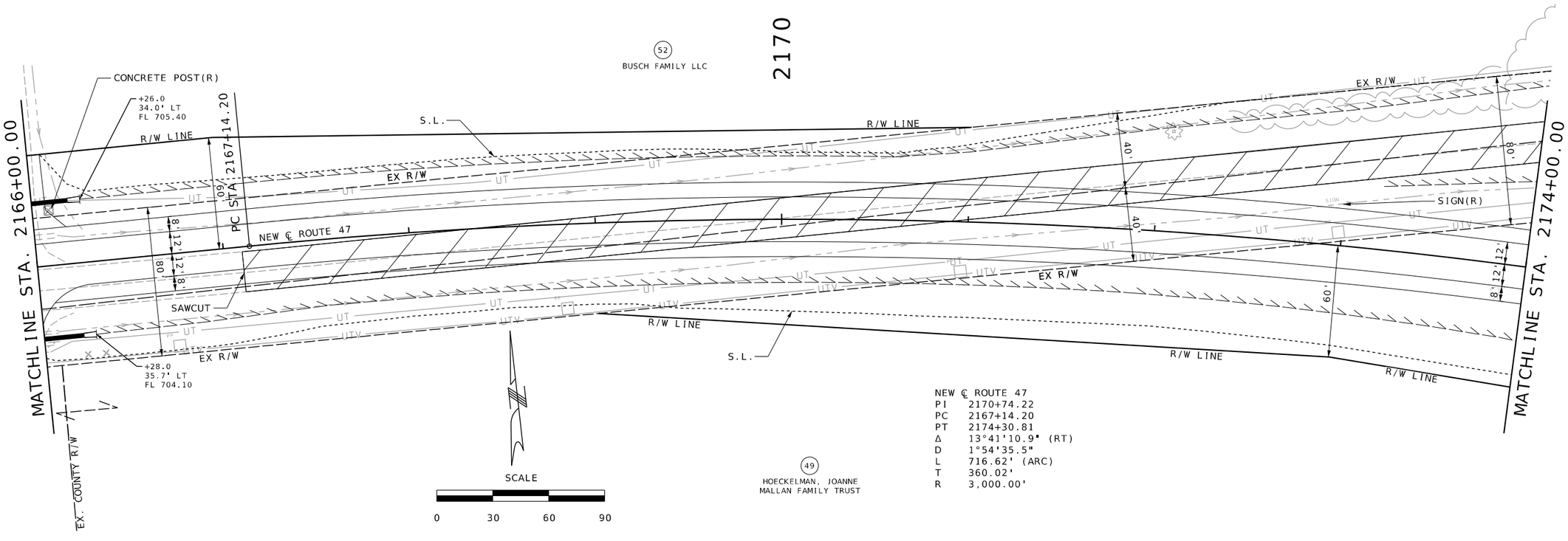

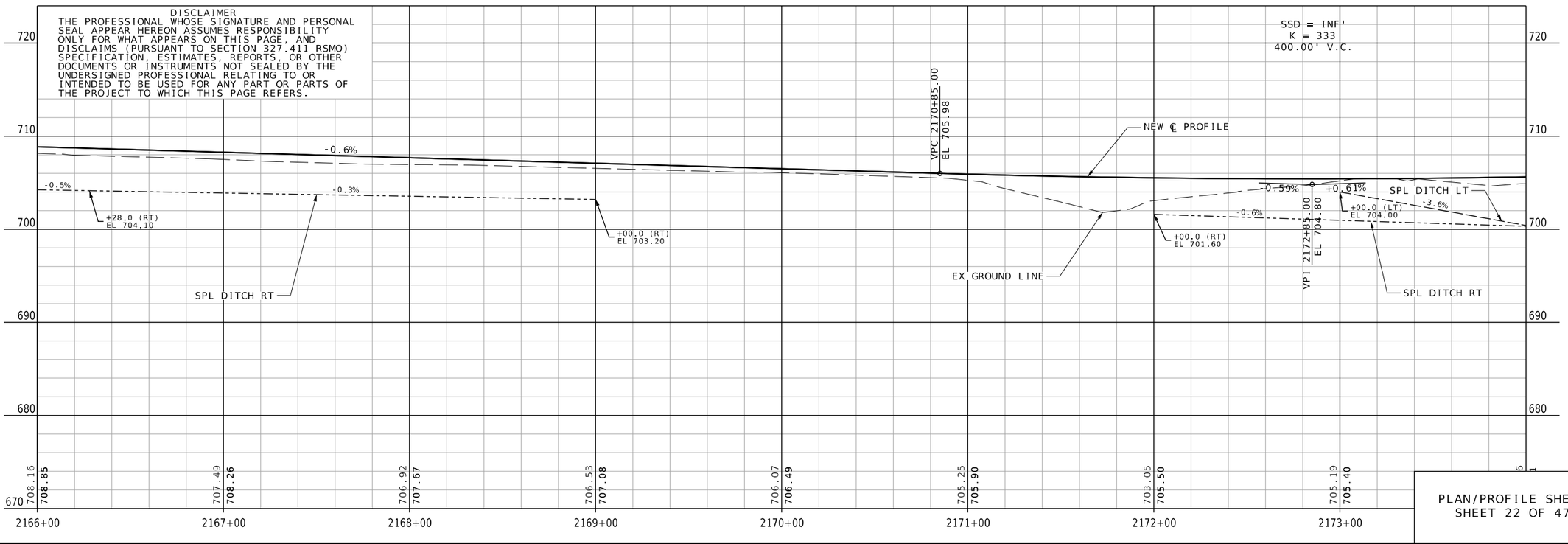

PLAN/PROFILE SHEET
SHEET 22 OF 47

STATE OF MISSOURI
JEFFREY R. RENSING
NUMBER PE-2006012376
PROFESSIONAL ENGINEER

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DATE PREPARED	
8/26/2025	
ROUTE	STATE
47	MO
DISTRICT	SHEET NO.
NE	25
COUNTY	
LINCOLN	
JOB NO.	
JNE0003	
CONTRACT ID.	
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PROJECT NO.	
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BRIDGE NO.	
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DESCRIPTION	DATE
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MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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2175

2180

STA. 2174+43.34
SKEW 2°36'32" LA
74'X5'X3' PRCBC
WITH END SECTIONS
D.A.=29.73AC
Q_{10} =55.95CFS
Q_{50} =86.34CFS

52
BUSCH FAMILY LLC

REMOVE TREES AND BRUSH TO R/W LINE

BOX CULVERT(R)

CULVERT

EX R/W

UT

UTV

PP

S.L.

SIGN(R)

NEW ℄ ROUTE 47
PI 2170+74.22
PC 2167+14.20
PT 2174+30.81
Δ 13°41'10.9 (RT)
D 1°54'35.5"
L 716.62' (ARC)
T 360.02'
R 3,000.00'

49
HOECKELMAN, JOANNE
MALLAN FAMILY TRUST

SCALE
0 30 60 90

℄ ROUTE AA ASPHALT
18"X49'
GROUP A PIPE

+88.0
189' LT
FL 698.20

+28.0
196' LT
FL 700.00

2' 12' 12' 2'

PT STA 2174+30.81

22'

22 CY ROCK LINING
2' THICK

+45.3
50.0' LT
FL 698.80

13.5'

8' 12' 12' 8'

.08

.60

.59

55'

NEW ℄ ROUTE 47

30' W
GRASS FE
PR GR 1.0%

+24.3

ENTRANCE(NEW)

R/W LINE

+41.7
43.5' RT
FL 700.00

22 CY ROCK LINING
2' THICK

MATCHLINE STA. 2174+00.00

MATCHLINE STA. 2182+00.00

STA 2185+55.08 ℄ ROUTE 47
STA 10+00 ℄ RTE AA

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720
710
700
690

VPT 2174+85.00
EL 706.02

NEW ℄ PROFILE

+0.6%

SPL DITCH RT

+33.0 (RT)
EL 700.10

+45.0 (RT)
EL 700.20

+50.0 (RT)
EL 703.10

+2.8%

-0.6%

-3.6%

+0.8%

+2.3%

+44.0 (LT)
EL 698.80

+50.0 (LT)
EL 699.00

+00.0 (LT)
EL 702.50

SPL DITCH LT

VPC 2178+49.98
EL 708.23

EX GROUND LINE

VPT 2180+24.98
EL 709.30

+0.61%

-2.21%

-2.2%

SSD = 558'
K = 124
350.00' V.C.

VPT 2181+99.98
EL 705.43

704.86 705.61
705.75 706.11
706.33 706.72
706.84 707.32
707.02 707.93
707.53 708.44
707.68 708.24
706.72 707.24
704.73 705.43

2174+00 2175+00 2176+00 2177+00 2178+00 2179+00 2180+00 2181+00

PLAN/PROFILE SHEET
SHEET 23 OF 47

STATE OF MISSOURI
JEFFREY R. RENSING
NUMBER PE-2005012376
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED
8/26/2025

ROUTE	STATE
47	MO
DISTRICT	SHEET NO.
NE	26

COUNTY
LINCOLN

JOB NO.
JNE0003

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DESCRIPTION	DATE
.	.

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

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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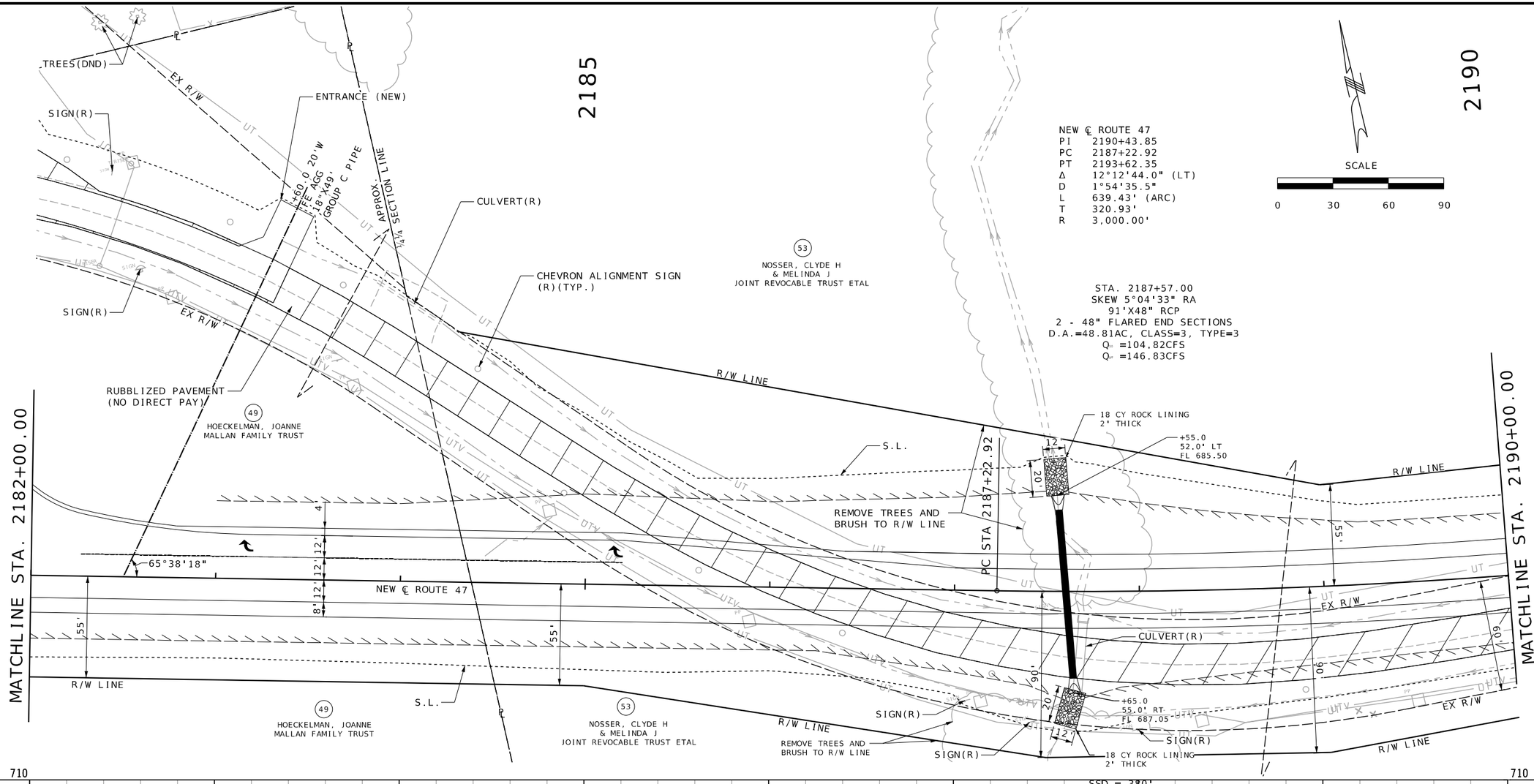
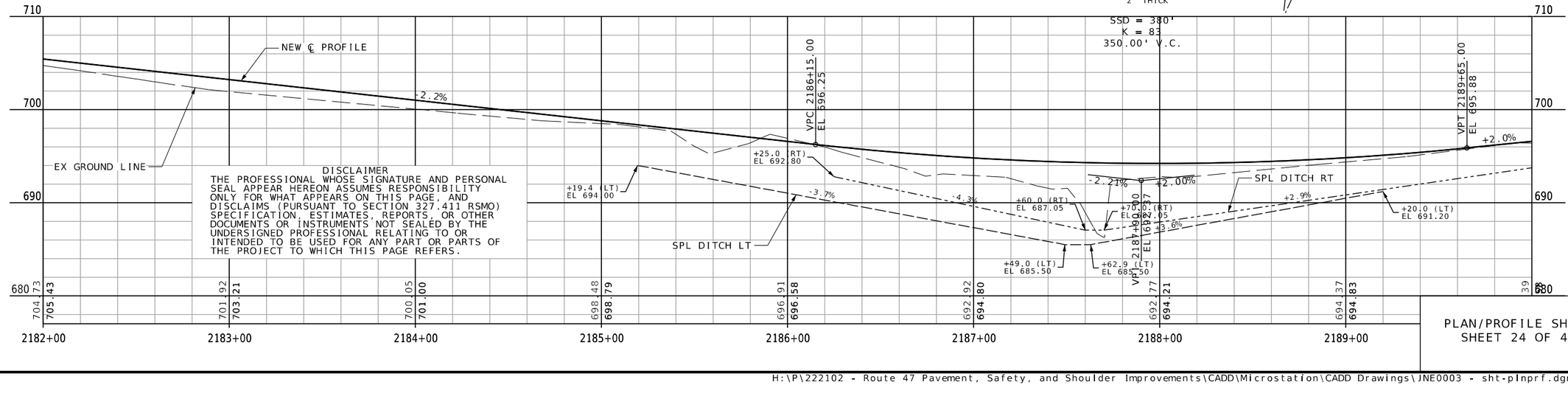
MISSOURI DESIGN FIRM PE-001166

OATES ASSOCIATES





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PLAN/PROFILE SHEET
SHEET 24 OF 47

STATE OF MISSOURI
JEFFREY R. RENSING
NUMBER PE-2006012376
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED 8/26/2025

ROUTE	STATE
47	MO
DISTRICT	SHEET NO.
NE	27

COUNTY LINCOLN
JOB NO. JNE0003
CONTRACT ID. .
PROJECT NO. .
BRIDGE NO. .

DESCRIPTION	DATE
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MISSOURI DESIGN FIRM PE-001166

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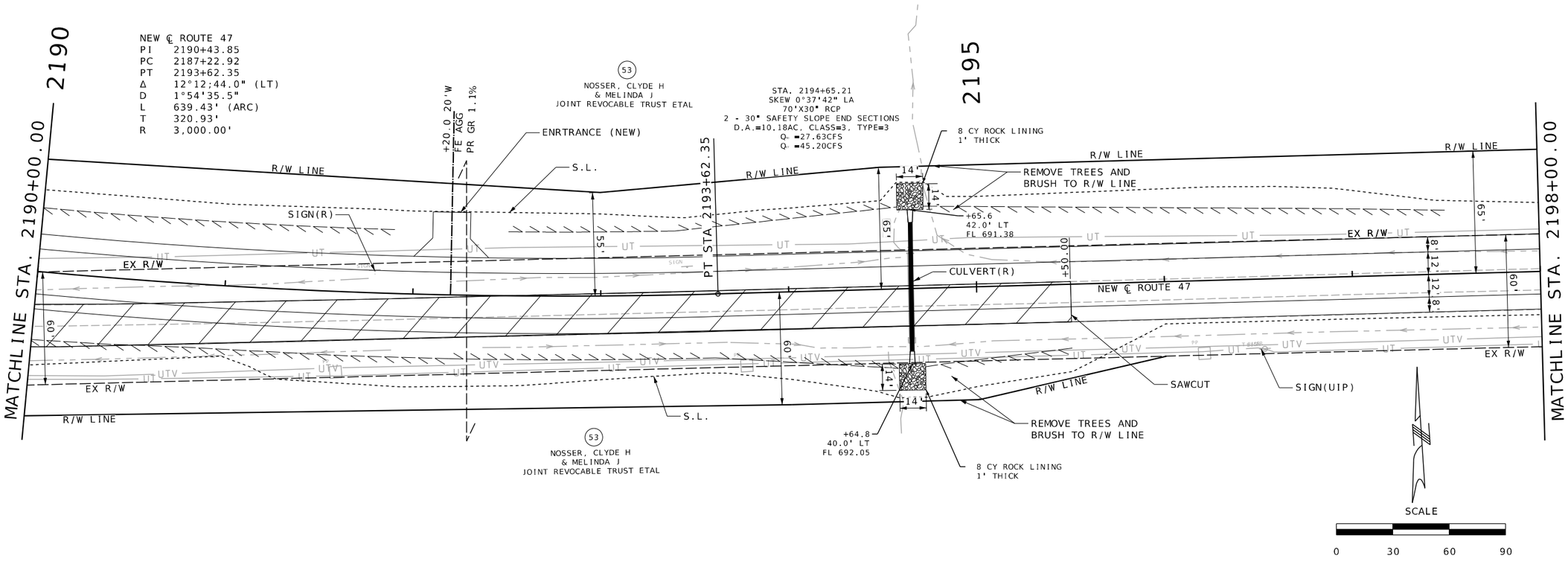

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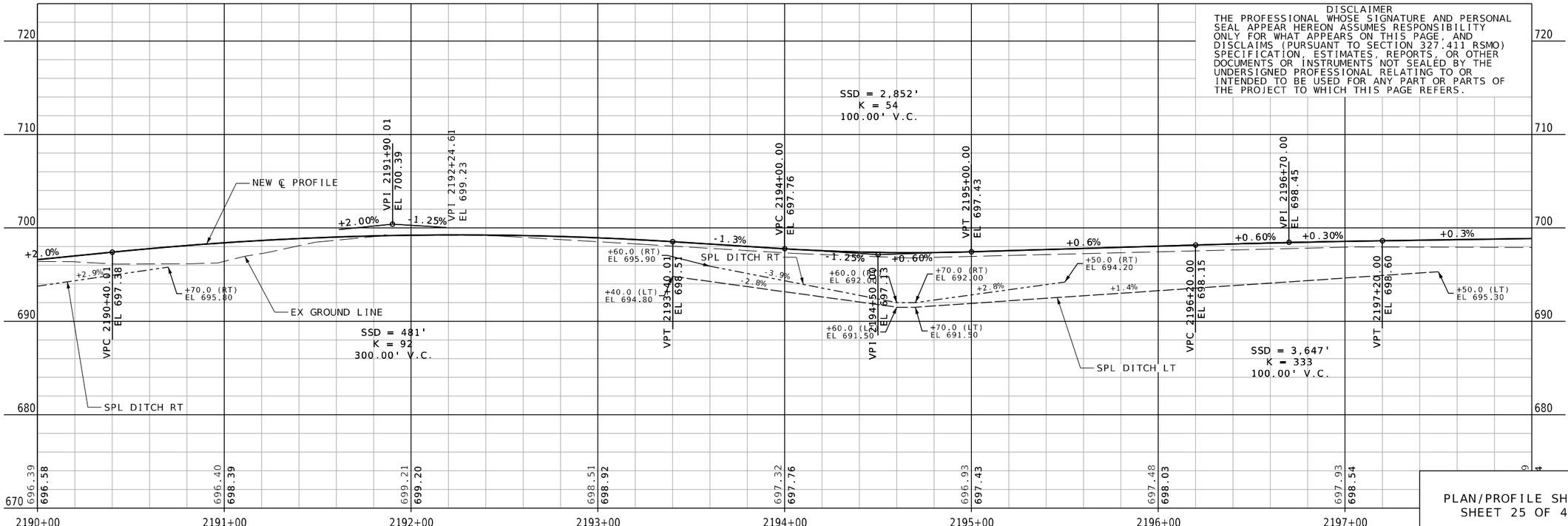

PLAN/PROFILE SHEET
SHEET 25 OF 47

STATE OF MISSOURI
JEFFREY R. RENSING
NUMBER PE-2006012376
PROFESSIONAL ENGINEER

THIS SHEET HAS been SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED 8/26/2025

ROUTE	STATE
47	MO
DISTRICT	SHEET NO.
NE	28

COUNTY LINCOLN
JOB NO. JNE0003
CONTRACT ID.
PROJECT NO.
BRIDGE NO.

DESCRIPTION	DATE

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

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

OATES ASSOCIATES

St. Louis	Collinsville	Belleville	St. Charles
720 Olive, Suite 700	101 Lanter Court, Suite 1	1 South Church, Suite 200	805 South Main, Suite 309
St. Louis, MO 63101	Collinsville, IL 62234	Belleville, IL 62220	St. Charles, MO 63301
314.288.8381	618.345.2000	618.416.4858	636.493.6277

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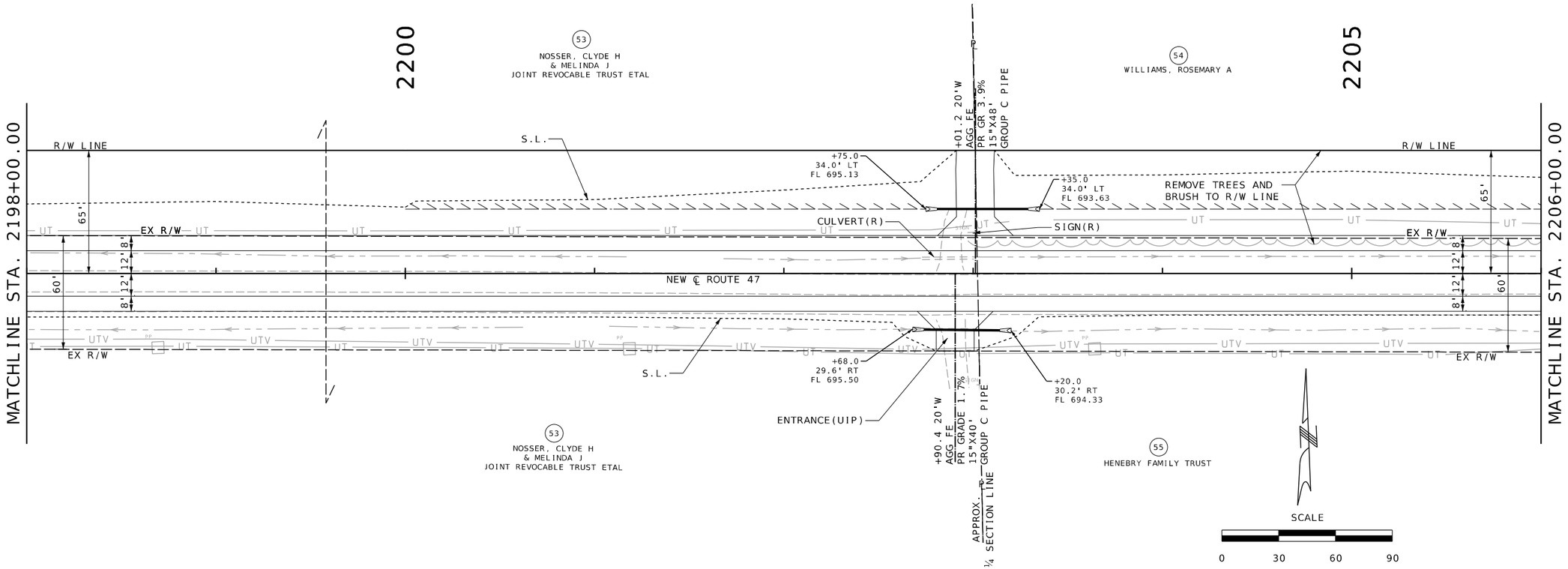
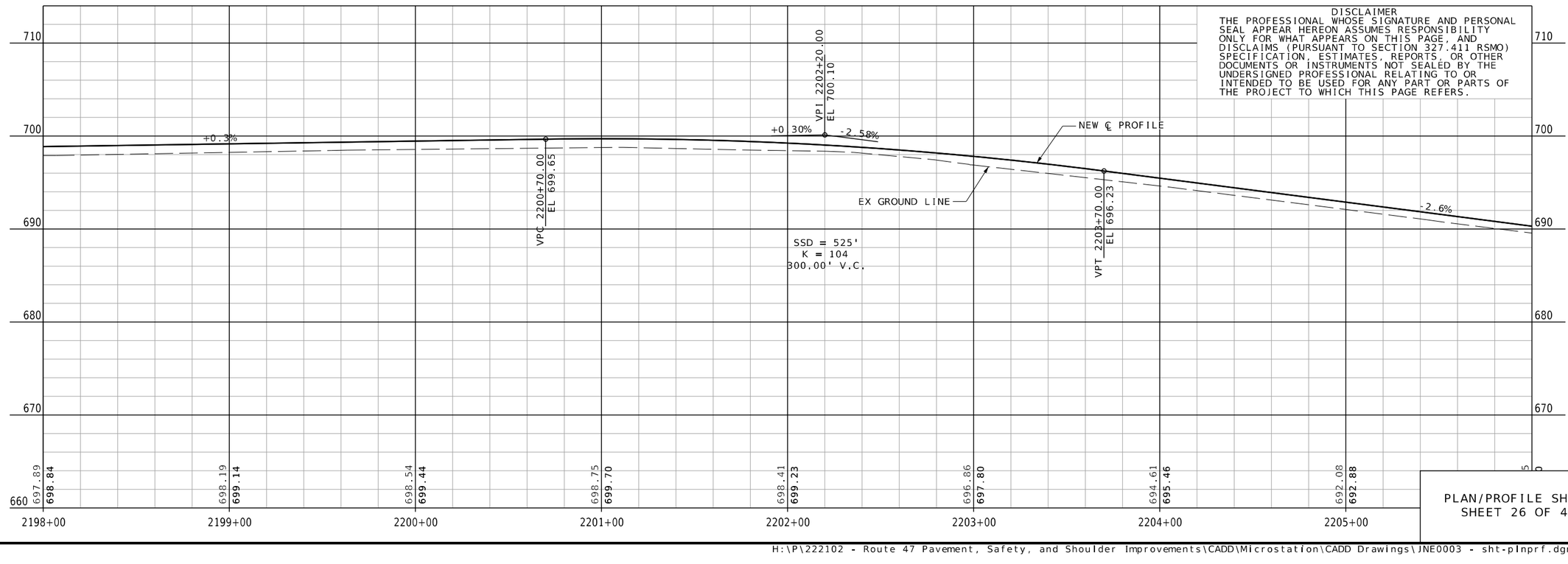
MISSOURI DESIGN FIRM PE-001166

H:\P\222102 - Route 47 Pavement, Safety, and Shoulder Improvements\CADD\Microstation\CADD Drawings\JNE0003 - sht-plnprf.dgn 8:01:58 AM 8/26/2025





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PLAN/PROFILE SHEET
SHEET 26 OF 47

STATE OF MISSOURI
JEFFREY R. RENSING
NUMBER PE-2006012376
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED: 8/26/2025
ROUTE: 47 | STATE: MO
DISTRICT: NE | SHEET NO.: 29
COUNTY: LINCOLN
JOB NO.: JNE0003
CONTRACT ID.:
PROJECT NO.:
BRIDGE NO.:

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

DESCRIPTION	DATE
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MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
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St. Charles, MO 63301
636.493.6277

Collinsville
100 Lanter Court, Suite 1
Collinsville, IL 62234
618.345.2200

Belleville
1 South Church, Suite 200
Belleville, IL 62220
618.416.4888

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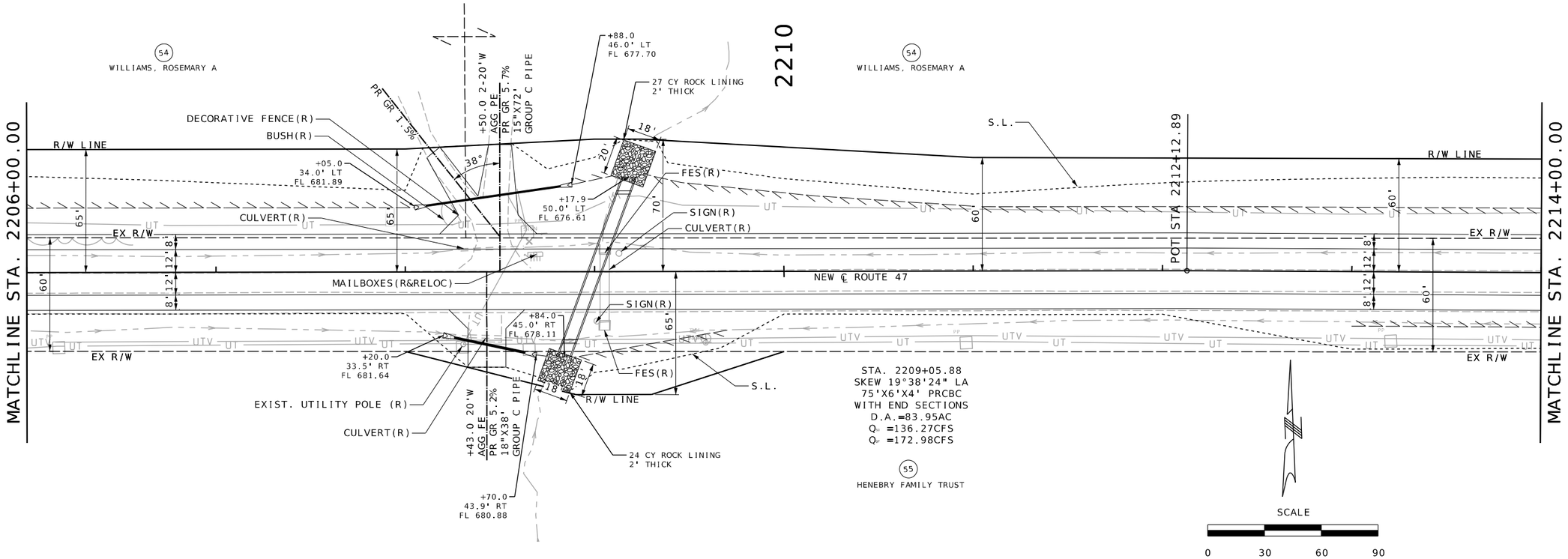
MISSOURI DESIGN FIRM PE-001166



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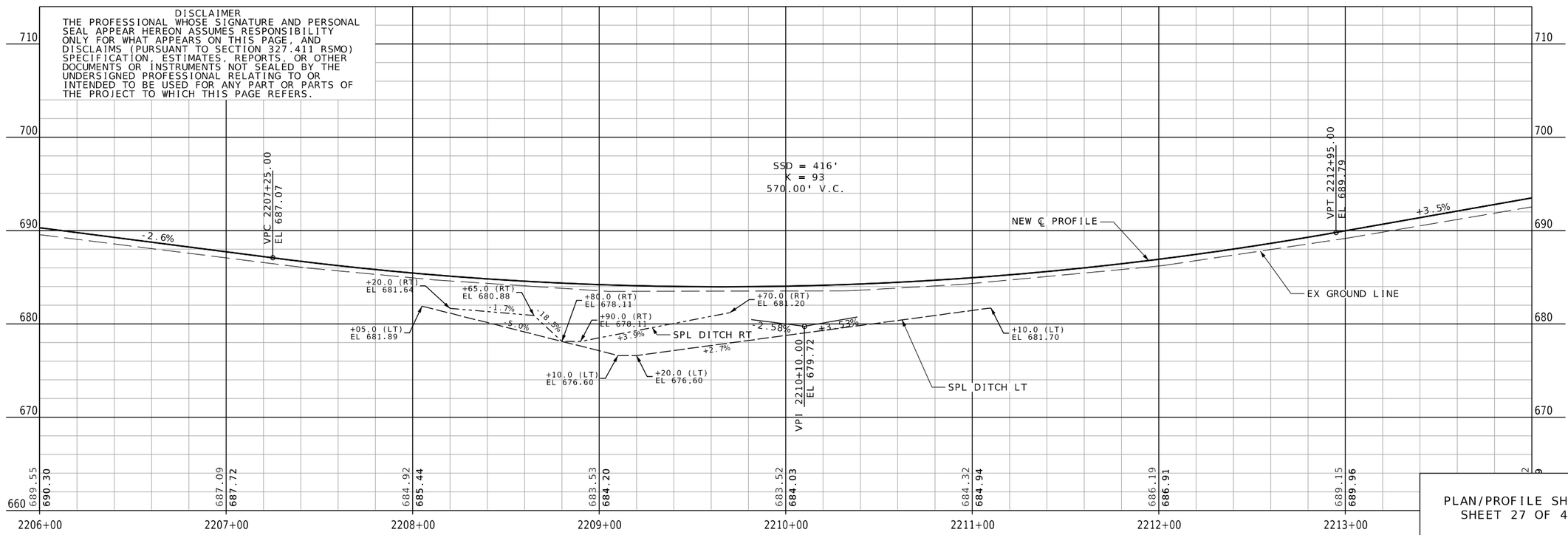

PLAN/PROFILE SHEET
SHEET 27 OF 47

STATE OF MISSOURI
JEFFREY R. RENSING
NUMBER PE-2006012376
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED
8/26/2025

ROUTE	STATE
47	MO
DISTRICT	SHEET NO.
NE	30

COUNTY
LINCOLN

JOB NO.
JNE0003

CONTRACT ID.
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PROJECT NO.
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BRIDGE NO.
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DESCRIPTION	DATE
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Belleville, IL 62220
618.416.4488
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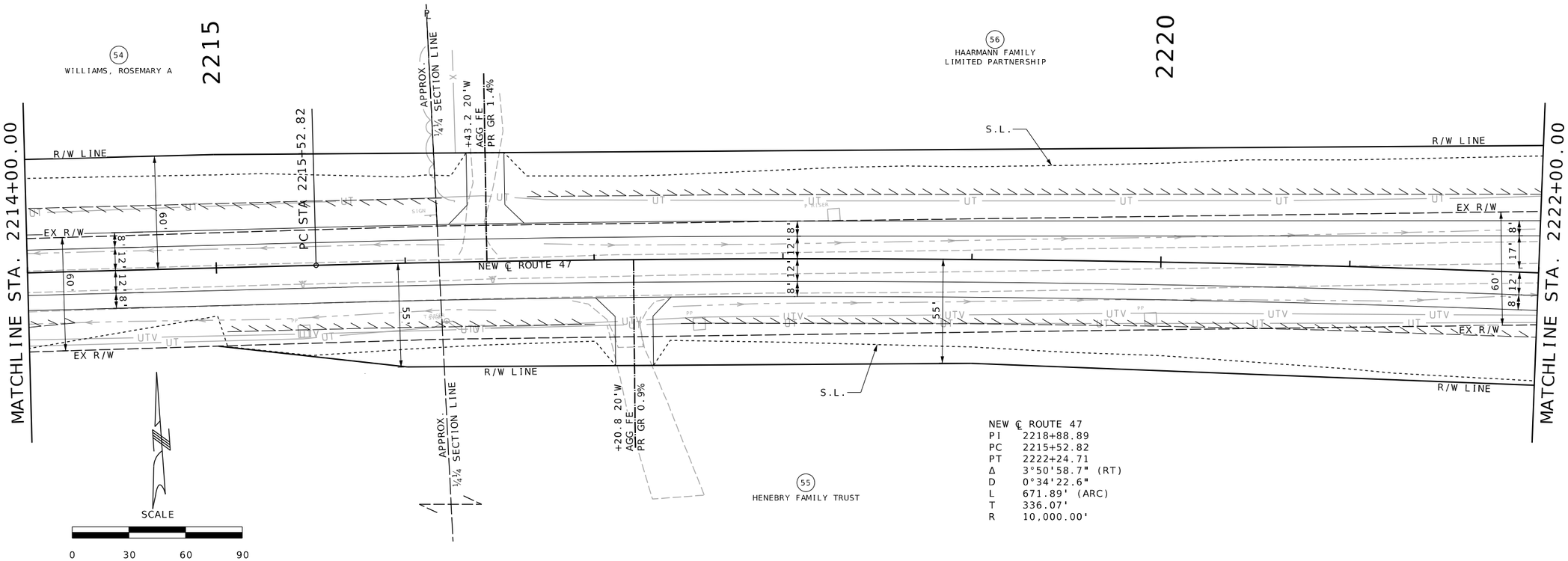
MISSOURI DESIGN FIRM PE-001166



PLAN/PROFILE SHEET
SHEET 28 OF 47

STATE OF MISSOURI
JEFFREY R. RENSING
NUMBER PE-2006012376
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED
8/26/2025

ROUTE	STATE
47	MO
DISTRICT	SHEET NO.
NE	31

COUNTY
LINCOLN

JOB NO.
JNE0003

CONTRACT ID.
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PROJECT NO.
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BRIDGE NO.
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DESCRIPTION	DATE
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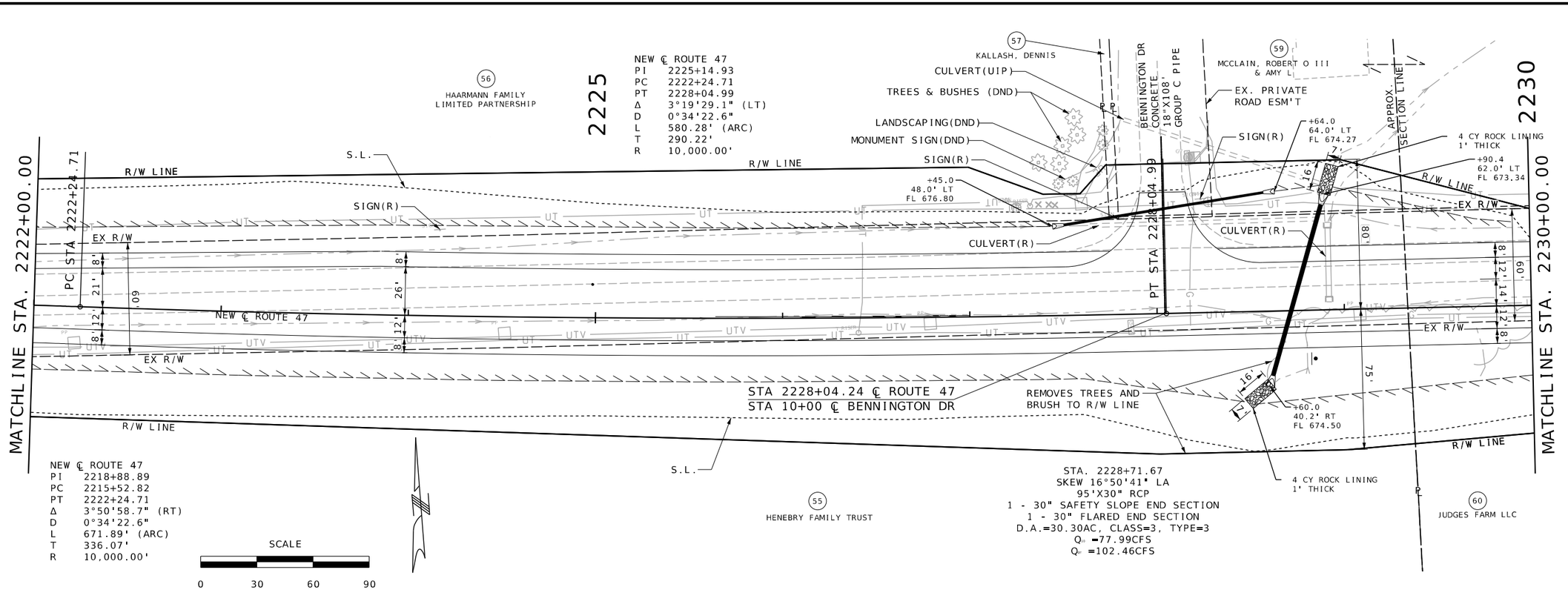
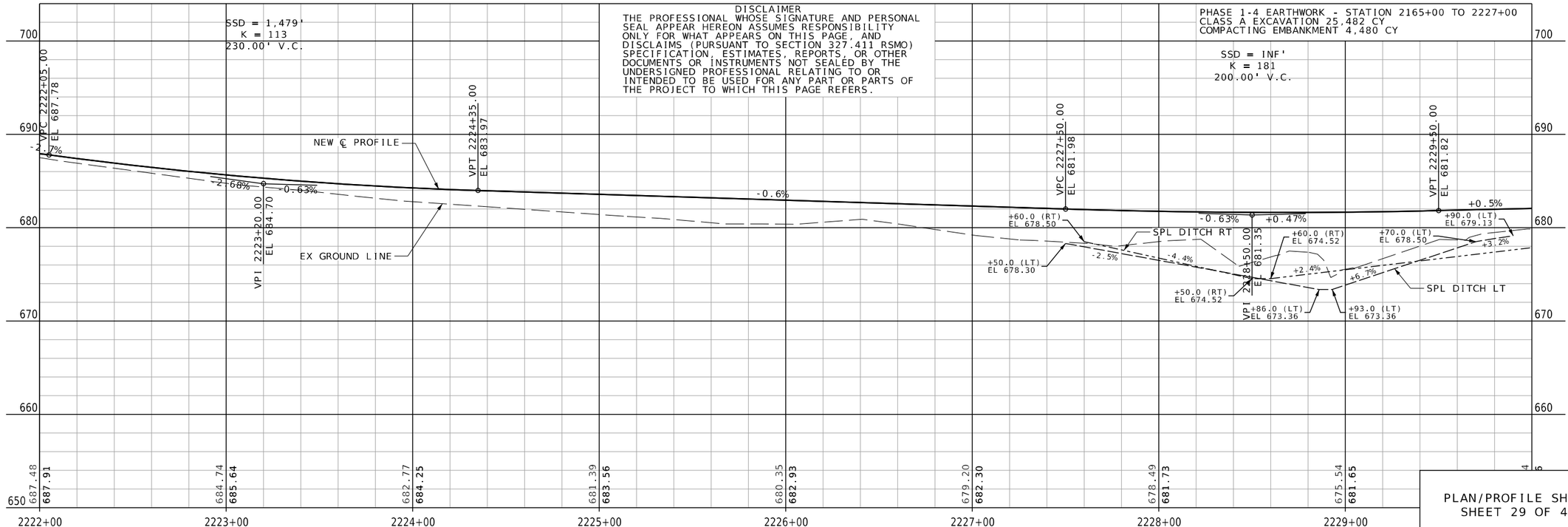
MISSOURI DESIGN FIRM PE-001166





PLAN/PROFILE SHEET
SHEET 29 OF 47

STATE OF MISSOURI
JEFFREY R. RENSING
NUMBER PE-2006012376
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED	
8/26/2025	
ROUTE 47	STATE MO
DISTRICT NE	SHEET NO. 32
COUNTY LINCOLN	
JOB NO. JNE0003	
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	

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

DATE	DESCRIPTION

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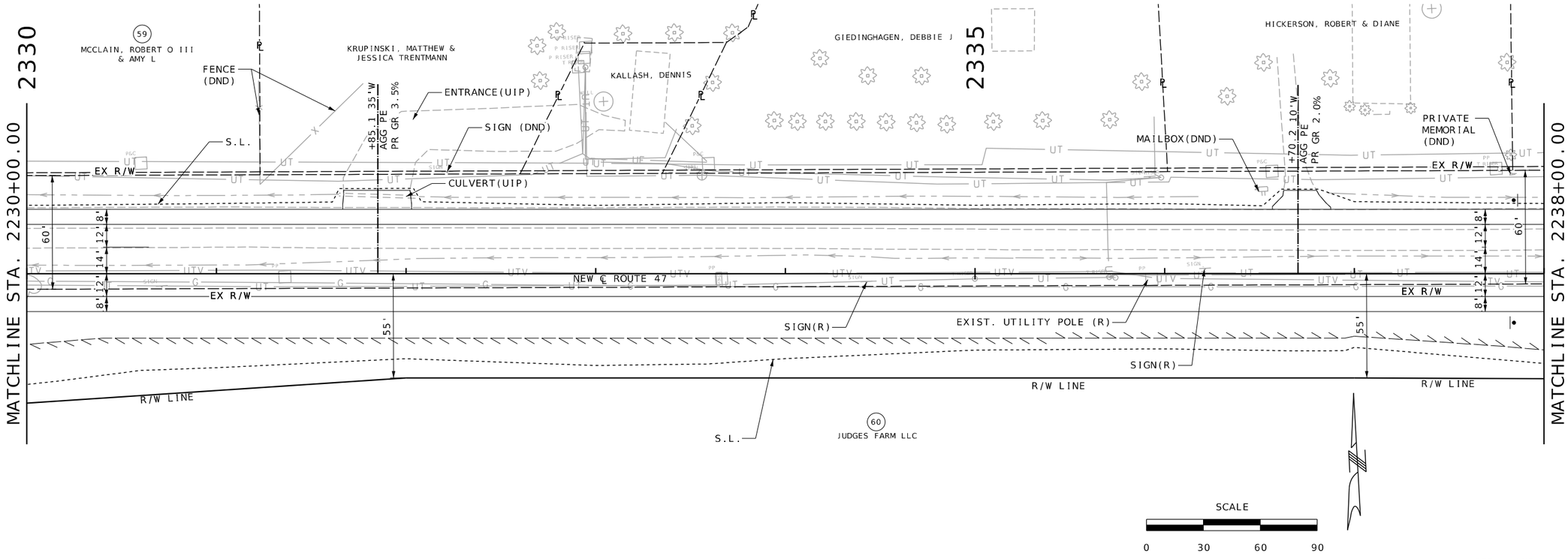
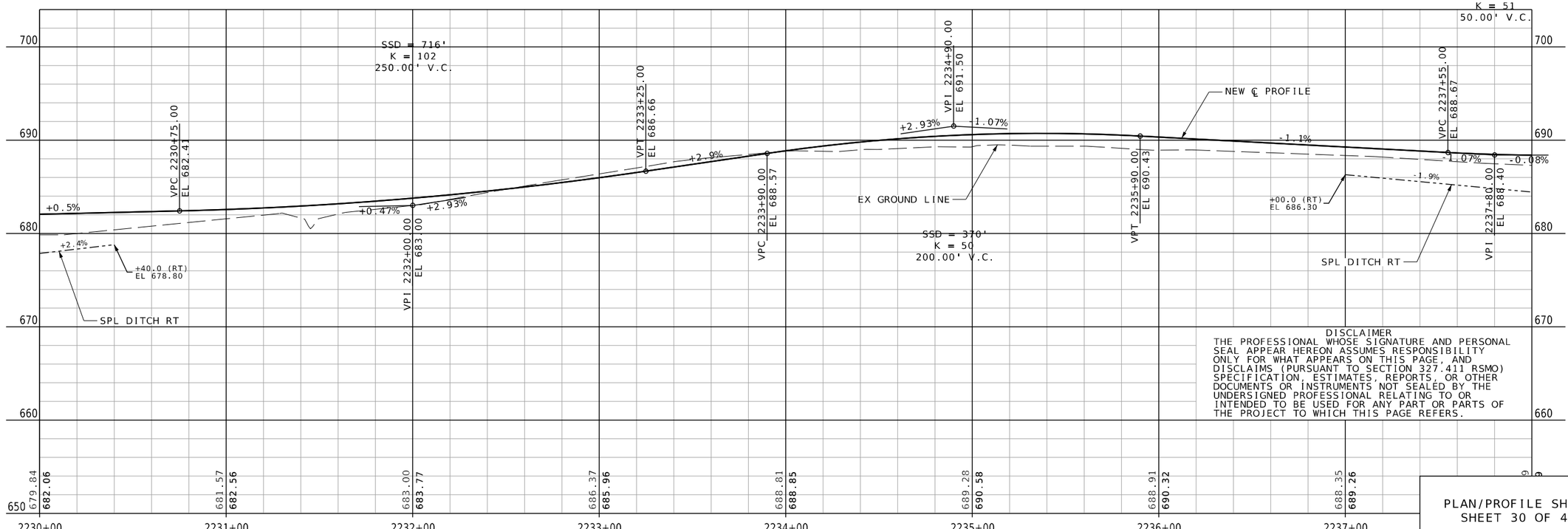
MISSOURI DESIGN FIRM PE-001166





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PLAN/PROFILE SHEET
SHEET 30 OF 47

STATE OF MISSOURI
JEFFREY R. RENSING
NUMBER PE-2005012376
PROFESSIONAL ENGINEER

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DATE PREPARED
8/26/2025

ROUTE	STATE
47	MO
DISTRICT	SHEET NO.
NE	33

COUNTY
LINCOLN

JOB NO.
JNE0003

CONTRACT ID.
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PROJECT NO.
.

BRIDGE NO.
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DESCRIPTION	DATE
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618.345.2300

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1 South Church, Suite 200
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618.416.4888

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MISSOURI DESIGN FIRM PE-001166

NEW ℄ ROUTE 47
PI 2240+82.03
PC 2238+50.69
PT 2243+11.32
Δ 13°11'45.3" (LT)
D 2°51'53.2"
L 460.62' (ARC)
T 231.34'
R 2,000.00'

61 LUEBRECHT, JUSTIN

EX. PRIVATE ROAD ESM'T

MONUMENT SIGN(DND)

TCE

LANDSCAPING (DND)

SIGN(R)

℄ BENJAMIN DR. CONCRETE

EX. PRIVATE ROAD ESM'T

63 LUEBRECHT, JUSTIN

TREES(DND)

SIGN(R)

TREES (DND)

APPROX. ¼¼ SECTION LINE

65 MRK MEYER LLC

2240

2245

MATCHLINE STA. 2238+00.00

PC STA 2238+50.69

STA 2240+84.22 ℄ ROUTE 47
STA 10+00 ℄ BENJAMIN DR

EX R/W

60'

26'

8'

12'

EX R/W

EX R/W

NEW ℄ ROUTE 47

PT STA 2243+11.32

S.L.

SIGN(R)

EX R/W

8'

12'

14'

12'

8'

80'

EX R/W

STA 2242+57.10 ℄ ROUTE 47
STA 10+00 ℄ LINNSMILL RD

SIGNS(R)

CULVERT(R)

+38.0
49.0' RT
FL 681.65

+95.0
50.0' RT
FL 681.25

+20.0
55.0' RT
FL 679.90

75'

80'

R/W LINE

60 JUDGES FARM LLC

TCE

+67.5 20'W AGG PR GR 8.5% 15"X47' GROUP C PIPE

64 MRK MEYER LLC

EX. COUNTY ROAD R/W

℄ LINNS MILL ROAD ASPHALT 15"X63' GROUP C PIPE

EX. COUNTY ROAD R/W

+95.0
54.0' LT
FL 679.22

S.L.

R/W LINE

60 JUDGES FARM LLC

SCALE
0 30 60 90

MATCHLINE STA. 2246+00.00

SSD = INF'
K = 85
100.00' V.C.

NEW ℄ PROFILE

EX GROUND LINE

SSD = 1,295'
K = 59
50.00' V.C.

SSD = 580'
K = 89
200.00' V.C.

SPL DITCH RT

VPT 2238+05.00 EL 688.38
VPC 2238+75.00 EL 688.32
VPI 2239+00.00 EL 688.30
VPT 2239+25.00 EL 688.07
VPC 2240+00.00 EL 687.37
VPT 2241+00.00 EL 687.02
VPI 2240+50.00 EL 686.90
VPC 2241+50.00 EL 687.15
VPI 2242+50.00 EL 687.40
VPT 2243+50.00 EL 685.40
VPC 2245+70.00 EL 681.00

+50.0 (RT) EL 683.50

-0.1% -0.08% -0.93% -0.9% -0.93% +0.25% +0.2% +0.25% -2.00% -2.0% -1.0% -1.9%

700 690 680 670 660 650

687.29 688.39 686.15 688.25 685.28 687.37 683.71 687.02 683.13 687.13 683.60 686.26 683.11 684.40 682.24 682.40 0 8

2238+00 2239+00 2240+00 2241+00 2242+00 2243+00 2244+00 2245+00

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PLAN/PROFILE SHEET
SHEET 31 OF 47

STATE OF MISSOURI
JEFFREY R. RENSING
NUMBER PE-2005012376
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED 8/26/2025

ROUTE	STATE
47	MO
DISTRICT	SHEET NO.
NE	34

COUNTY LINCOLN
JOB NO. JNE0003
CONTRACT ID. .
PROJECT NO. .
BRIDGE NO. .

DESCRIPTION	DATE
.	.

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MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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MISSOURI DESIGN FIRM PE-001166

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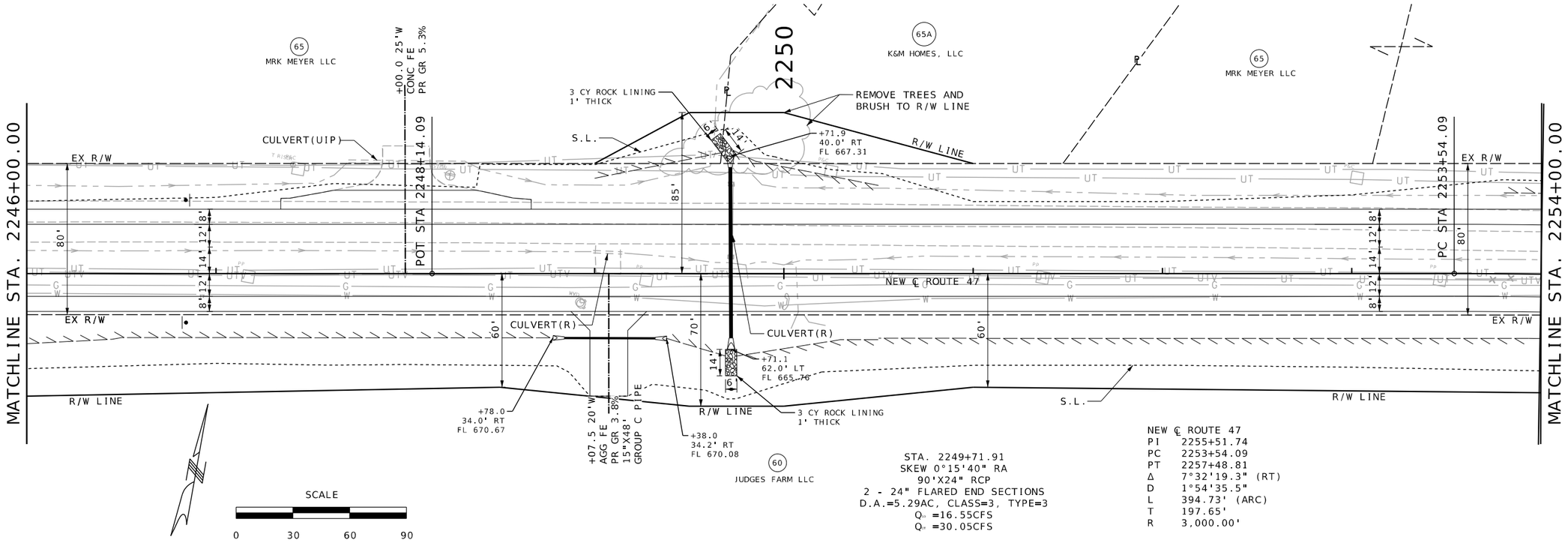
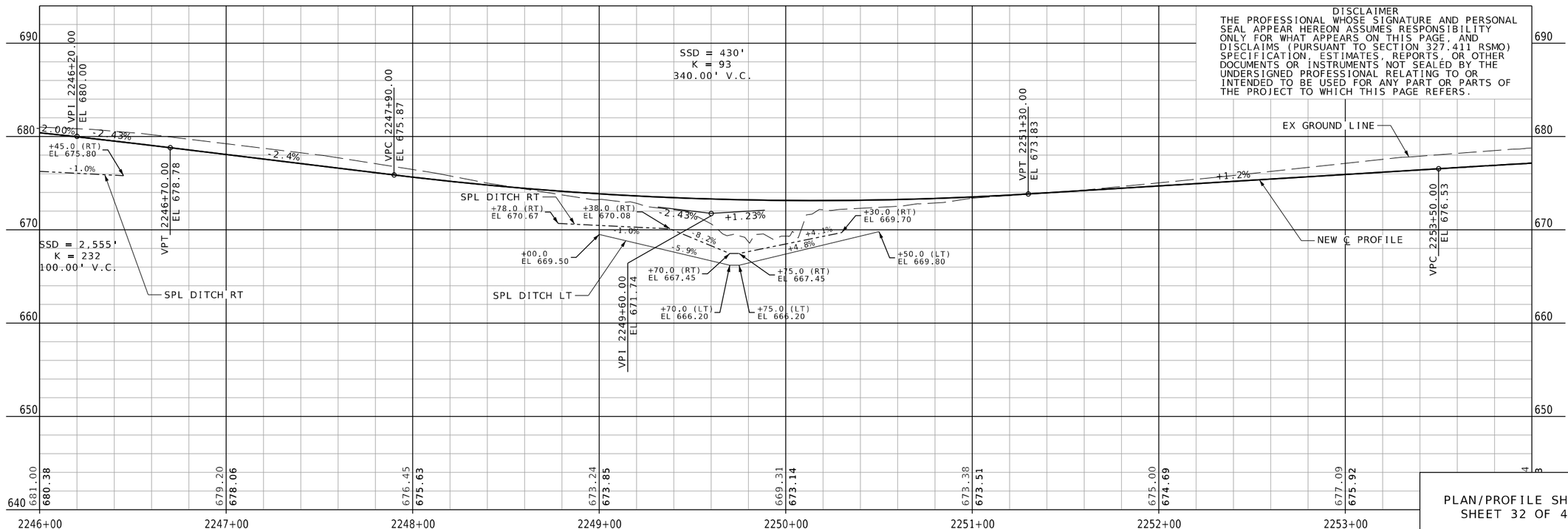


STA. 2249+71.91
SKEW 0°15'40" RA
90"X24" RCP
2 - 24" FLARED END SECTIONS
D.A.=5.29AC, CLASS=3, TYPE=3
Q_{25} =16.55CFS
Q_{50} =30.05CFS

NEW ℄ ROUTE 47
PI 2255+51.74
PC 2253+54.09
PT 2257+48.81
Δ 7°32'19.3" (RT)
D 1°54'35.5"
L 394.73' (ARC)
T 197.65'
R 3,000.00'



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PLAN/PROFILE SHEET
SHEET 32 OF 47

STATE OF MISSOURI
JEFFREY R. RENSING
NUMBER PE-2006012376
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED 8/26/2025
ROUTE 47 | STATE MO
DISTRICT NE | SHEET NO. 35
COUNTY LINCOLN
JOB NO. JNE0003
CONTRACT ID. .
PROJECT NO. .
BRIDGE NO. .

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

DATE	DESCRIPTION
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MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
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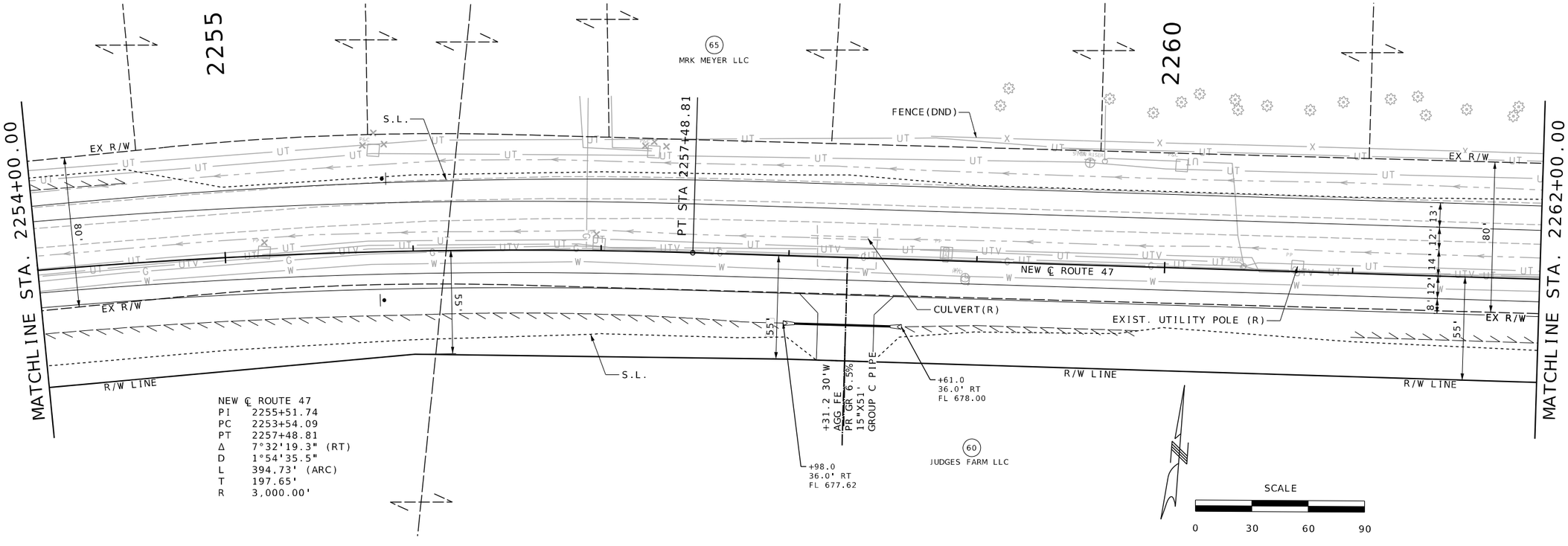
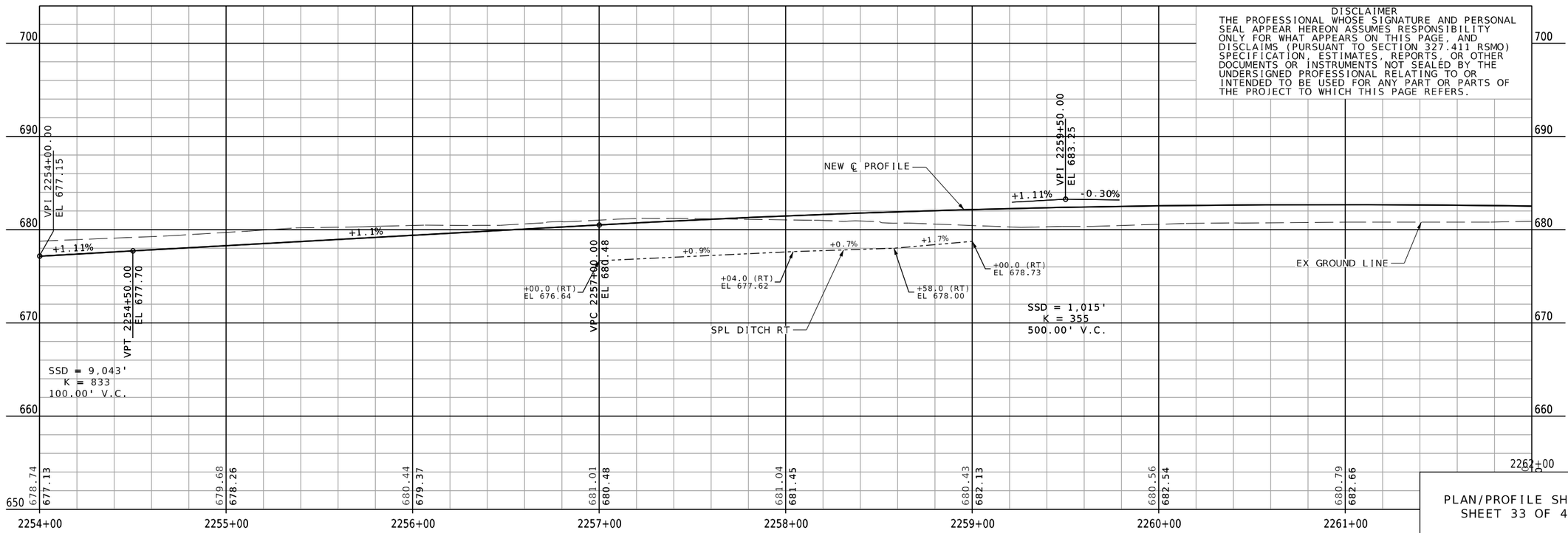
MISSOURI DESIGN FIRM PE-001166





PLAN/PROFILE SHEET
SHEET 33 OF 47

JEFFREY R. RENSING
NUMBER PE-2005012376
STATE OF MISSOURI
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED
8/26/2025

ROUTE	STATE
47	MO
DISTRICT	SHEET NO.
NE	36

COUNTY
LINCOLN

JOB NO.
JNE0003

CONTRACT ID.
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PROJECT NO.
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BRIDGE NO.
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DESCRIPTION	DATE
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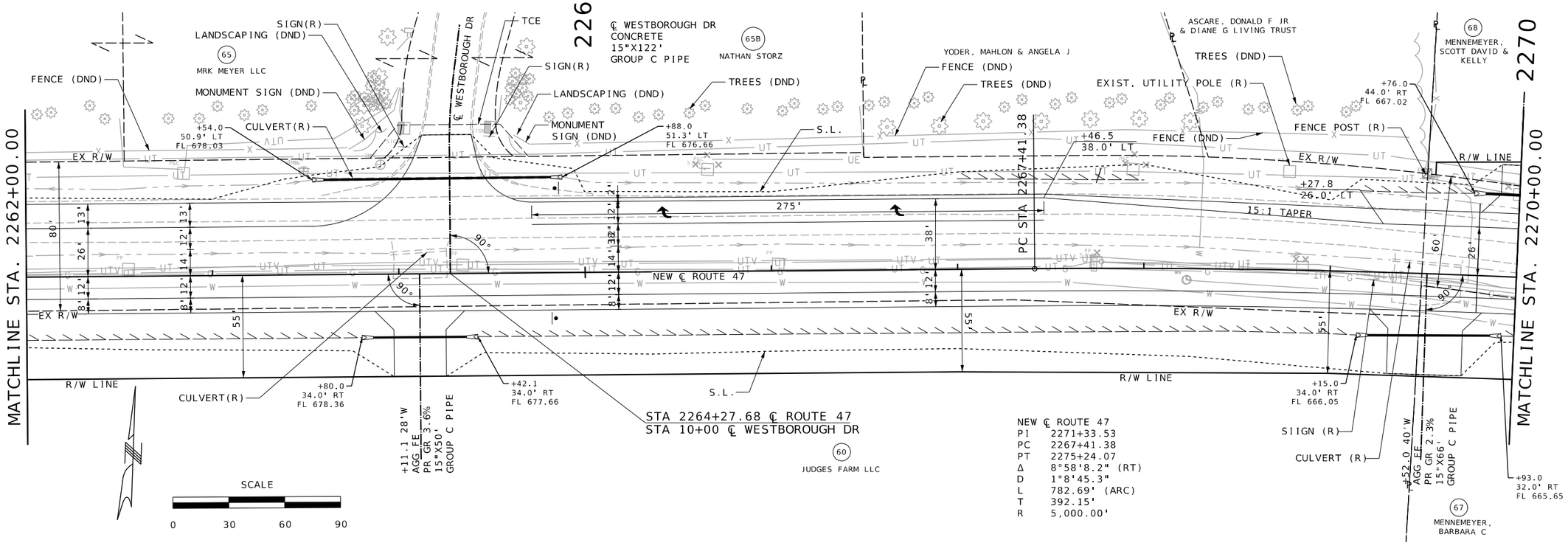
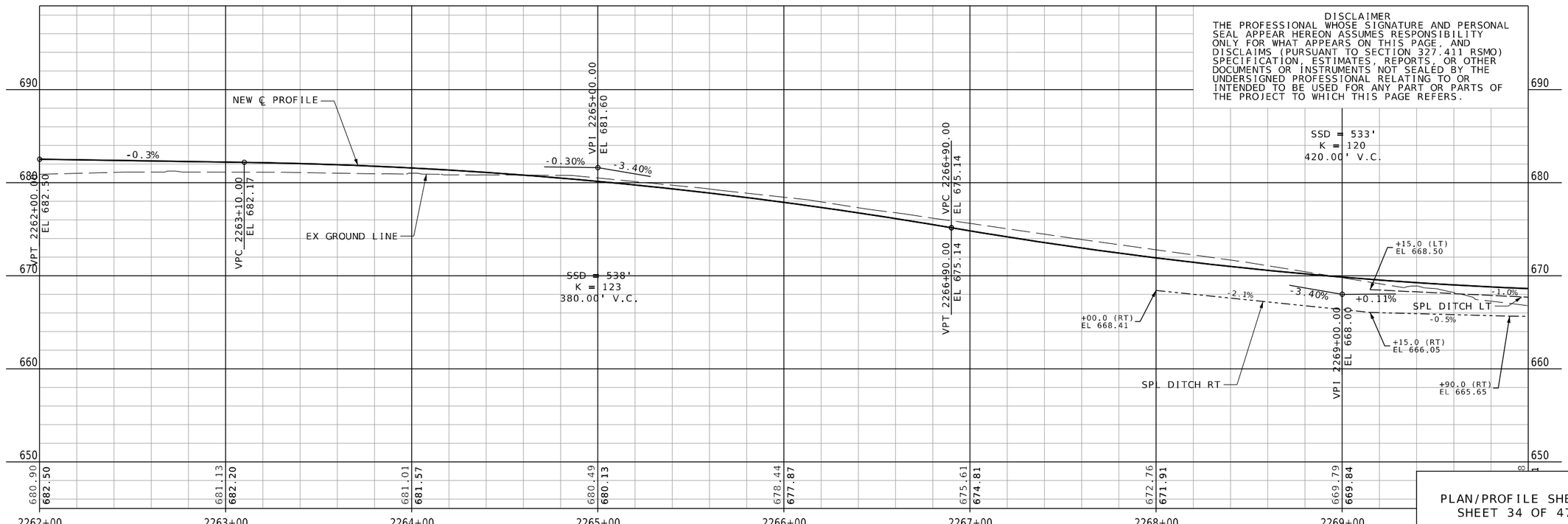
MISSOURI DESIGN FIRM PE-001166

H:\P\222102 - Route 47 Pavement, Safety, and Shoulder Improvements\CADD\Microstation\CADD Drawings\JNE0003 - sht-plnprf.dgn 8:06:05 AM 8/26/2025





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PLAN/PROFILE SHEET
SHEET 34 OF 47

STATE OF MISSOURI
JEFFREY R. RENSING
NUMBER PE-2006012376
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED	
8/26/2025	
ROUTE	STATE
47	MO
DISTRICT	SHEET NO.
NE	37
COUNTY	
LINCOLN	
JOB NO.	
JNE0003	
CONTRACT ID.	
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PROJECT NO.	
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BRIDGE NO.	
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DESCRIPTION	DATE
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MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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618.416.4868

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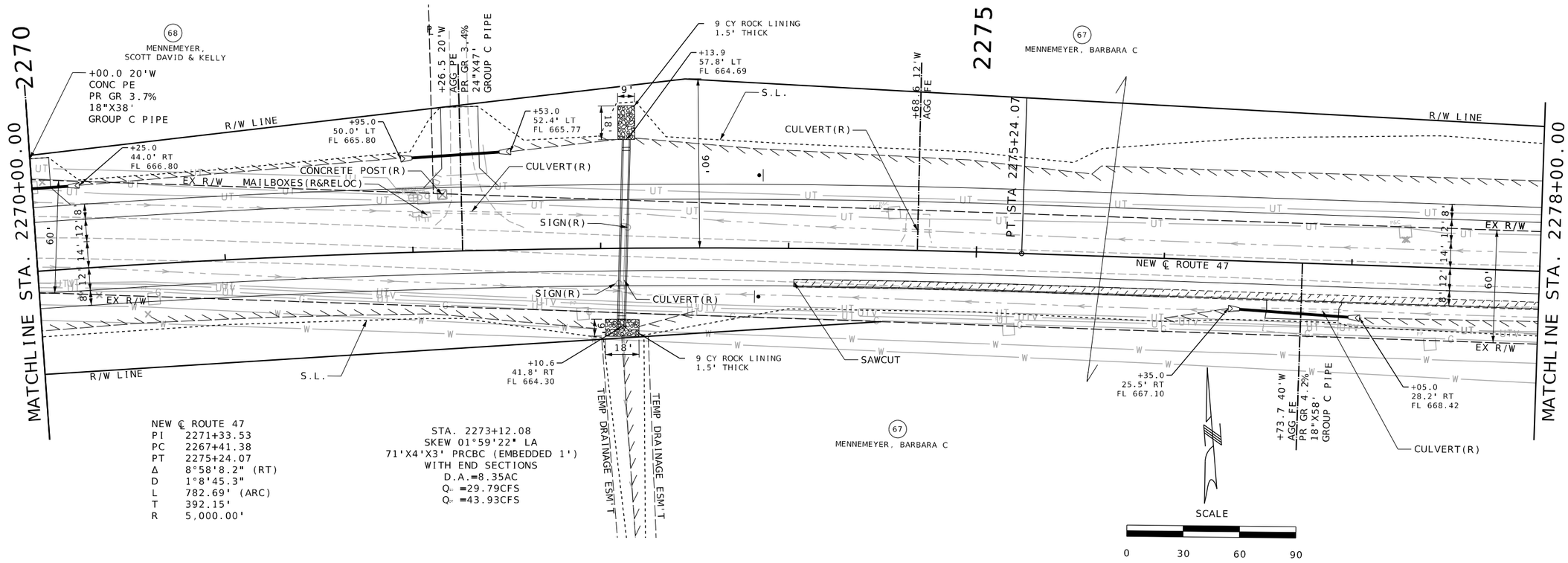
MISSOURI DESIGN FIRM PE-001166



PLAN/PROFILE SHEET
SHEET 35 OF 47

STATE OF MISSOURI
JEFFREY R. RENSING
NUMBER PE-2006012376
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

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

DATE PREPARED	
8/26/2025	
ROUTE	STATE
47	MO
DISTRICT	SHEET NO.
NE	38
COUNTY	
LINCOLN	
JOB NO.	
JNE0003	
CONTRACT ID.	
.	
PROJECT NO.	
.	
BRIDGE NO.	
.	

DESCRIPTION	DATE
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MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

105 WEST CAPITOL
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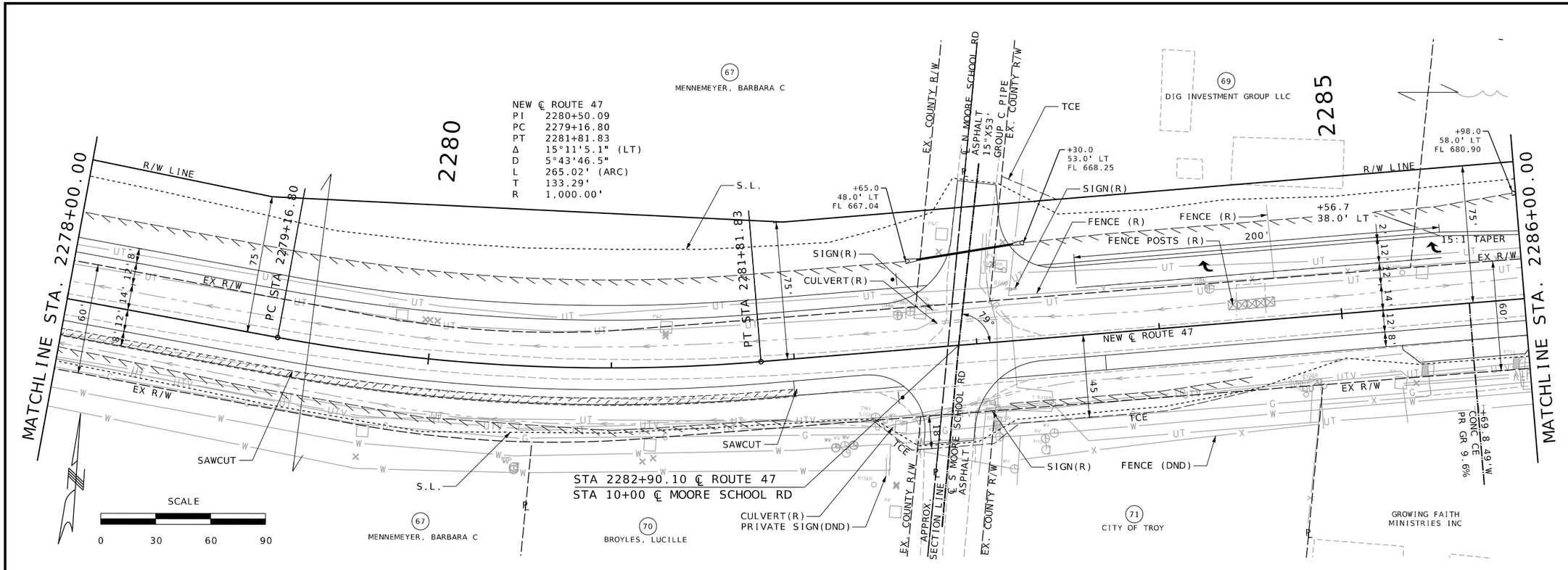
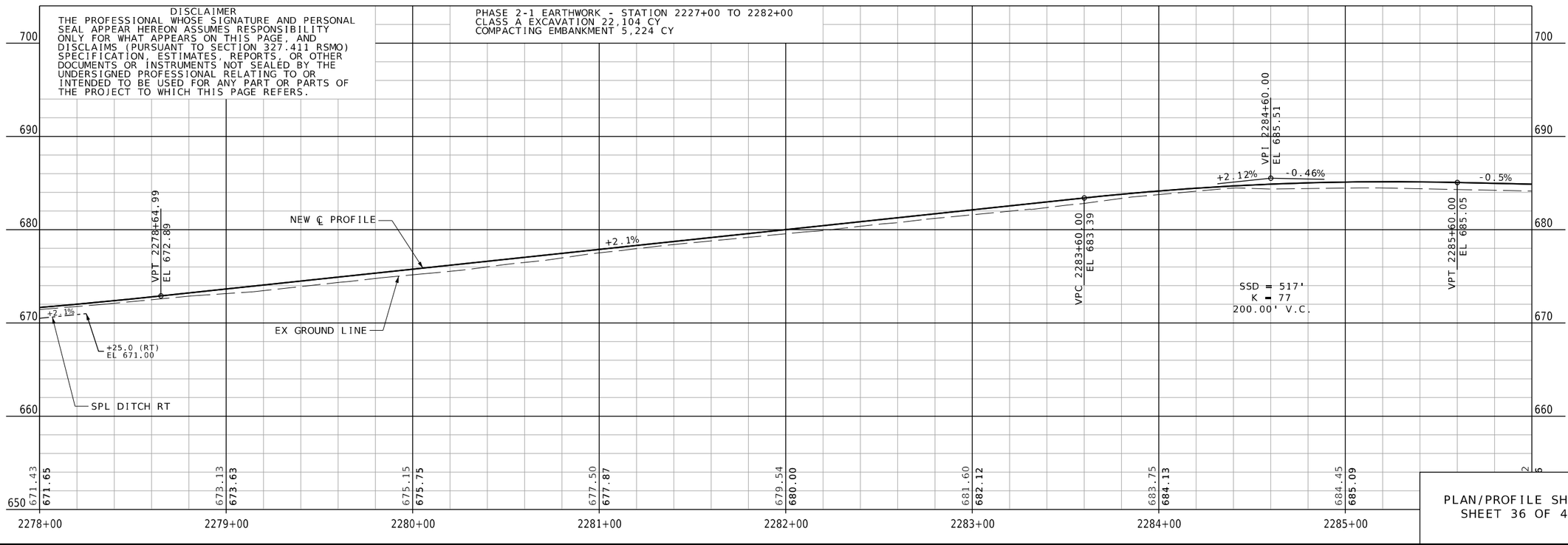
H:\P\222102 - Route 47 Pavement, Safety, and Shoulder Improvements\CADD\Microstation\CADD Drawings\JNE0003 - sht-plnprf.dgn 8:07:19 AM 8/26/2025





PLAN/PROFILE SHEET
SHEET 36 OF 47

STATE OF MISSOURI
JEFFREY R. RENSING
NUMBER PE-2006012376
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED 8/26/2025

ROUTE	STATE
47	MO
DISTRICT	SHEET NO.
NE	39

COUNTY LINCOLN
JOB NO. JNE0003
CONTRACT ID.
PROJECT NO.
BRIDGE NO.

DESCRIPTION	DATE

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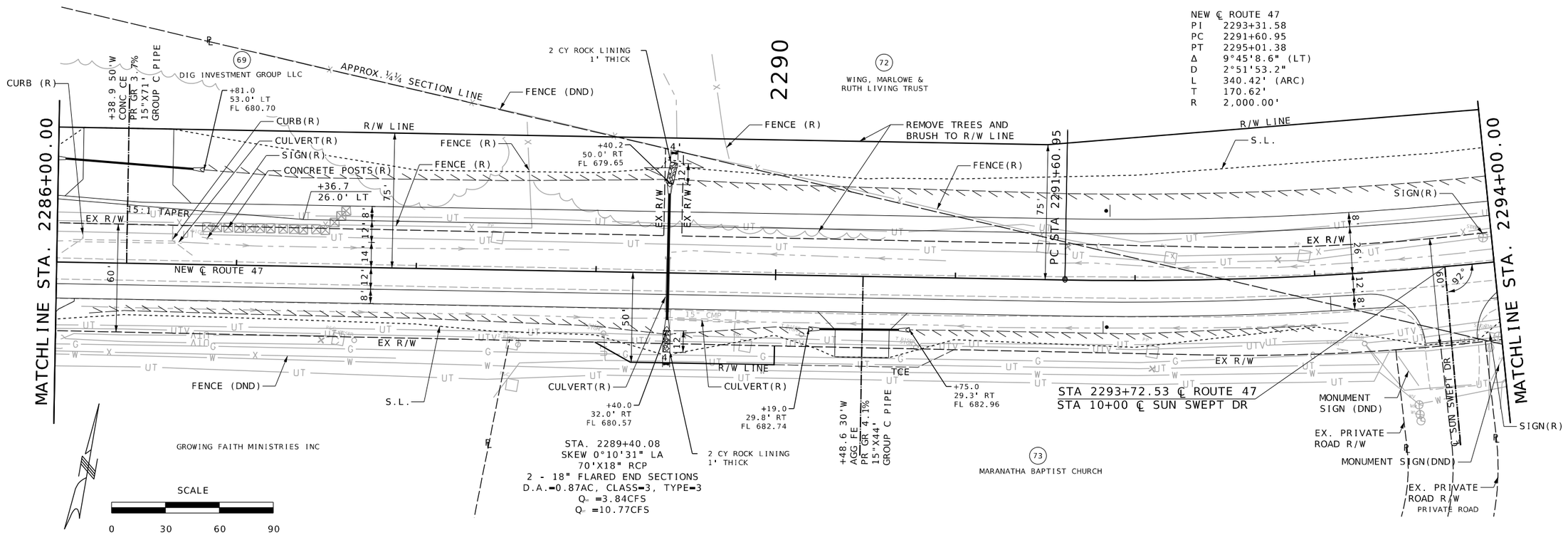
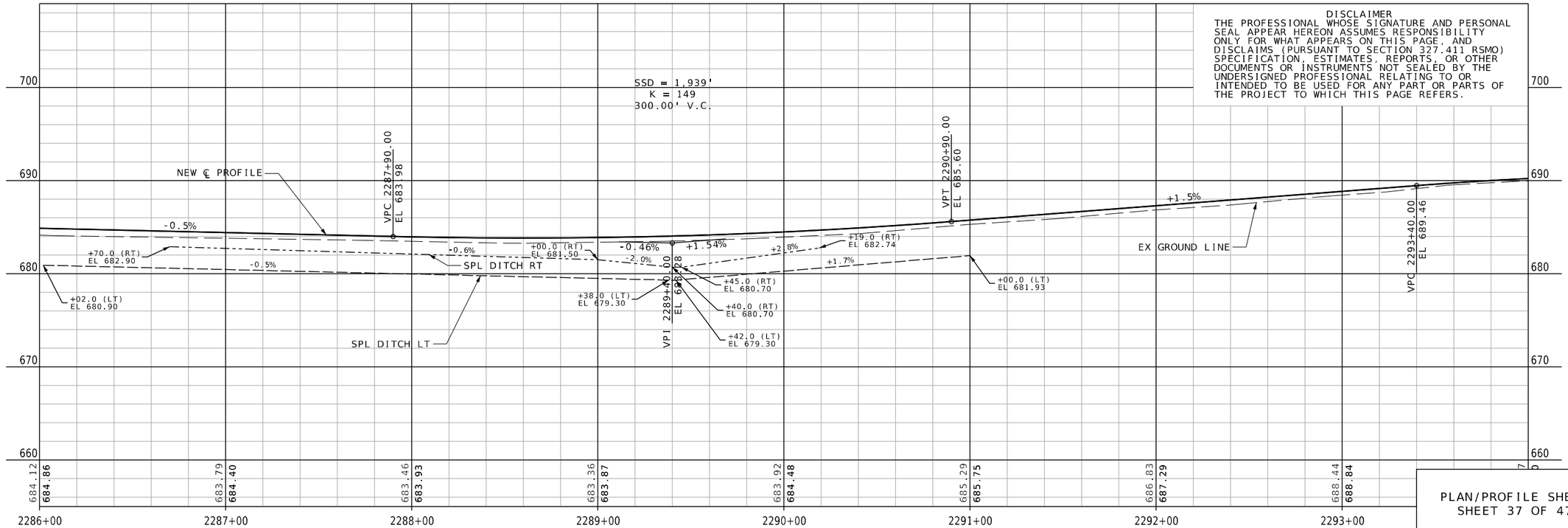
H:\P\222102 - Route 47 Pavement, Safety, and Shoulder Improvements\CADD\Microstation\CADD Drawings\JNE0003 - sht-plnprf.dgn 8:07:54 AM 8/26/2025





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PLAN/PROFILE SHEET
SHEET 37 OF 47

STATE OF MISSOURI
JEFFREY R. RENSING
NUMBER PE-2006012376
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED 8/26/2025

ROUTE	STATE
47	MO
DISTRICT	SHEET NO.
NE	40

COUNTY LINCOLN
JOB NO. JNE0003
CONTRACT ID. .
PROJECT NO. .
BRIDGE NO. .

DATE	DESCRIPTION
.	.

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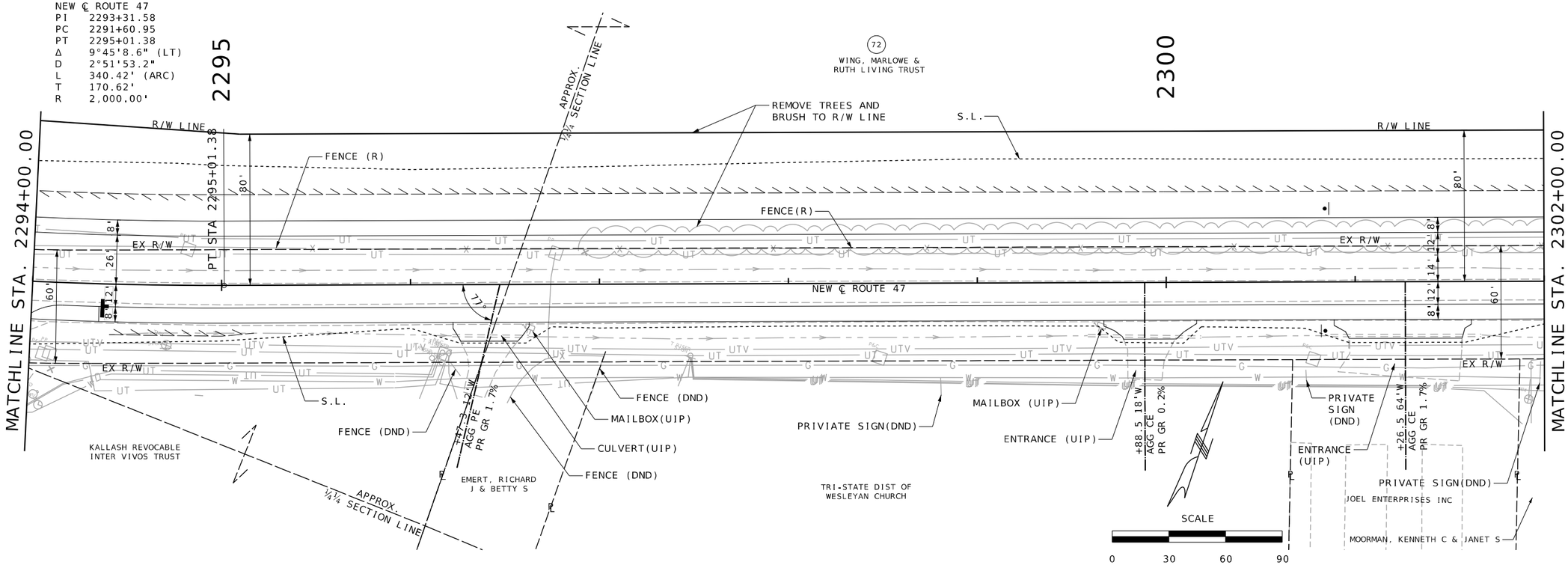
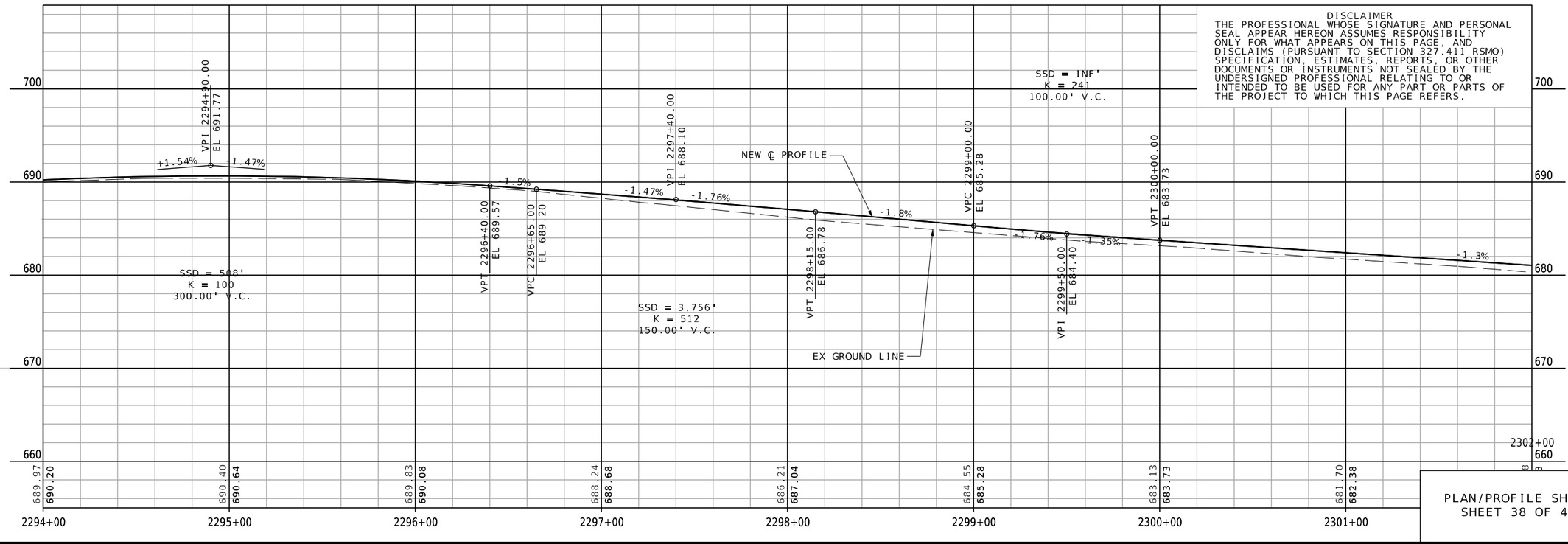
MISSOURI DESIGN FIRM PE-001166

H:\P\222102 - Route 47 Pavement, Safety, and Shoulder Improvements\CADD\Microstation\CADD Drawings\JNE0003 - sht-plnprf.dgn 8:08:37 AM 8/26/2025

NEW ℄ ROUTE 47
PI 2293+31.58
PC 2291+60.95
PT 2295+01.38
Δ 9°45'8.6" (LT)
D 2°51'53.2"
L 340.42' (ARC)
T 170.62'
R 2,000.00'





PLAN/PROFILE SHEET
SHEET 38 OF 47

STATE OF MISSOURI
JEFFREY R. RENSING
NUMBER PE-2006012376
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED 8/26/2025
ROUTE 47 | STATE MO
DISTRICT NE | SHEET NO. 41
COUNTY LINCOLN
JOB NO. JNE0003
CONTRACT ID. .
PROJECT NO. .
BRIDGE NO. .

DESCRIPTION	DATE
.	.

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

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H:\P\222102 - Route 47 Pavement, Safety, and Shoulder Improvements\CADD\Microstation\CADD Drawings\JNE0003 - sht-plnprf.dgn 8:09:13 AM 8/26/2025

NEW ℄ ROUTE 47
PI 2311+17.87
PC 2309+15.29
PT 2313+18.01
Δ 15°22'58.4" (RT)
D 3°49'11.0"
L 402.72' (ARC)
T 202.58'
R 1,500.00'

STA. 2308+66.93
SKEW 7°13'26" LA
99'X 3'X2' PRCBC
& WEIR AND END SECTION
D.A.=8.82AC
Q_{10} =9.01CFS
Q_{50} =37.38CFS

2305

SCALE
0 30 60 90

MATCHLINE STA. 2302+00.00

R/W LINE
REMOVE TREES AND BRUSH TO R/W LINE
+09.3 20'W AGG FE PR GR -7.4% 24"X52' GROUP C PIPE
+80.0 48.0' LT FL 674.99
SIGNS(R)
CULVERT(R)
FENCE(R)
EX R/W
NEW ℄ ROUTE 47
+47.8 40'W ASPH CE PR GR 1.8%
CULVERT (UIP)
MOORMAN, KENNETH C & JANET S
MAILBOX (R&RELOC)
CULVERT (UIP)
BOB HALL HOLDING LLC
+69.4 40'W AGG CE PR GR 3.0%
FENCE (DND)
GENERAL PARTNERS INVESTMENTS LLC
TREE(DND)
EX. CITY OF TROY R/W
℄ WINGATE DR CONCRETE
EX. CITY OF TROY R/W
S.L.
140'
80'
+44.0 48.0' LT FL 674.33
FENCE(R)
72
WING, MARLOWE & RUTH LIVING TRUST
REMOVE TREES AND BRUSH TO R/W LINE
STA 2306+39.90 ℄ ROUTE 47
STA 10+00 ℄ WINGATE DR
+76.8 61.8' LT FL 671.20
PC STA 2309+15.29
EX R/W
CULVERT(R)
FENCE (DND)
SIGN(R)
MEDIAN(R)
SIGN(R)
74
+64.0 42.0' RT FL 670.83
9 CY ROCK LINING 1.5' THICK
75
FERLING, BRANDON & AMANDA
ELSBREE, BRITTANY
R/W LINE
FENCE (R)
MATCHLINE STA. 2310+00.00

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SSD = INF'
K = 191
150.00' V.C.

SSD = 1,695'
K = 189
400.00' V.C.

VPC 2303+35.00 EL 679.21
VPT 2304+85.00 EL 677.78
VPC 2306+70.00 EL 676.74
VPI 2304+10.00 EL 678.20
VPI 2308+70.00 EL 675.62
NEW ℄ PROFILE
EX GROUND LINE
SPL DITCH LT (SEE BMP-1 DETAIL)
SPL DITCH RT
-1.3%
-1.35%
0.56%
-0.6%
-1.4%
-0.5%
-0.56%
+1.56%
-3.3%
+1.0%
+0.5%
+4.5%
+44.0 (LT) EL 674.33
+35.3 (LT) EL 672.98
+00.0 (RT) EL 672.80
+60.0 (RT) EL 670.80
+70.0 (RT) EL 670.80
+78.3 (LT) EL 671.24
+00.0 (RT) EL 672.90
+45.9 (LT) EL 758.00

700 690 680 670 660 650

680.28 681.03 678.88 679.68 677.71 678.45 676.98 677.69 676.34 677.13 675.78 676.59 675.54 676.46 675.73 676.85

2302+00 2303+00 2304+00 2305+00 2306+00 2307+00 2308+00 2309+00

PLAN/PROFILE SHEET
SHEET 39 OF 47

H:\P\222102 - Route 47 Pavement, Safety, and Shoulder Improvements\CADD\Microstation\CADD Drawings\JNE0003 - sht-plnprf.dgn 8:10:10 AM 8/26/2025

STATE OF MISSOURI
JEFFREY R. RENSING
NUMBER PE-2006012376
PROFESSIONAL ENGINEER
THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED 8/26/2025
ROUTE 47 | STATE MO
DISTRICT NE | SHEET NO. 42
COUNTY LINCOLN
JOB NO. JNE0003
CONTRACT ID.
PROJECT NO.
BRIDGE NO.

DESCRIPTION	DATE

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

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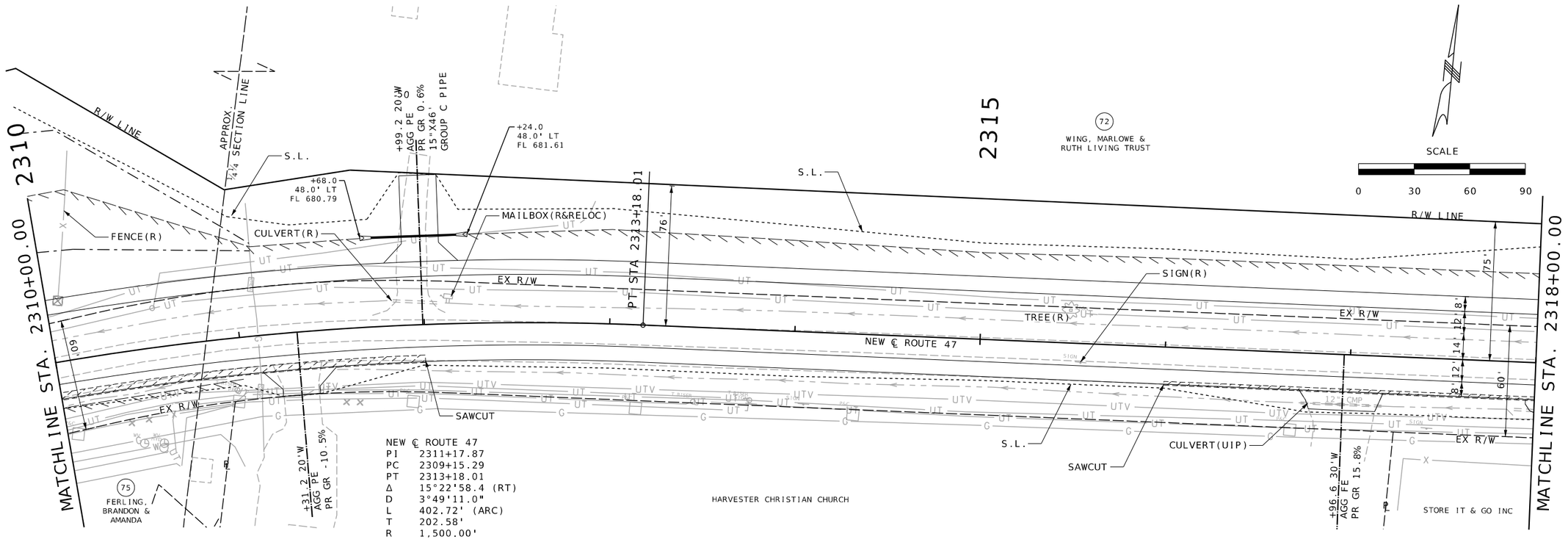
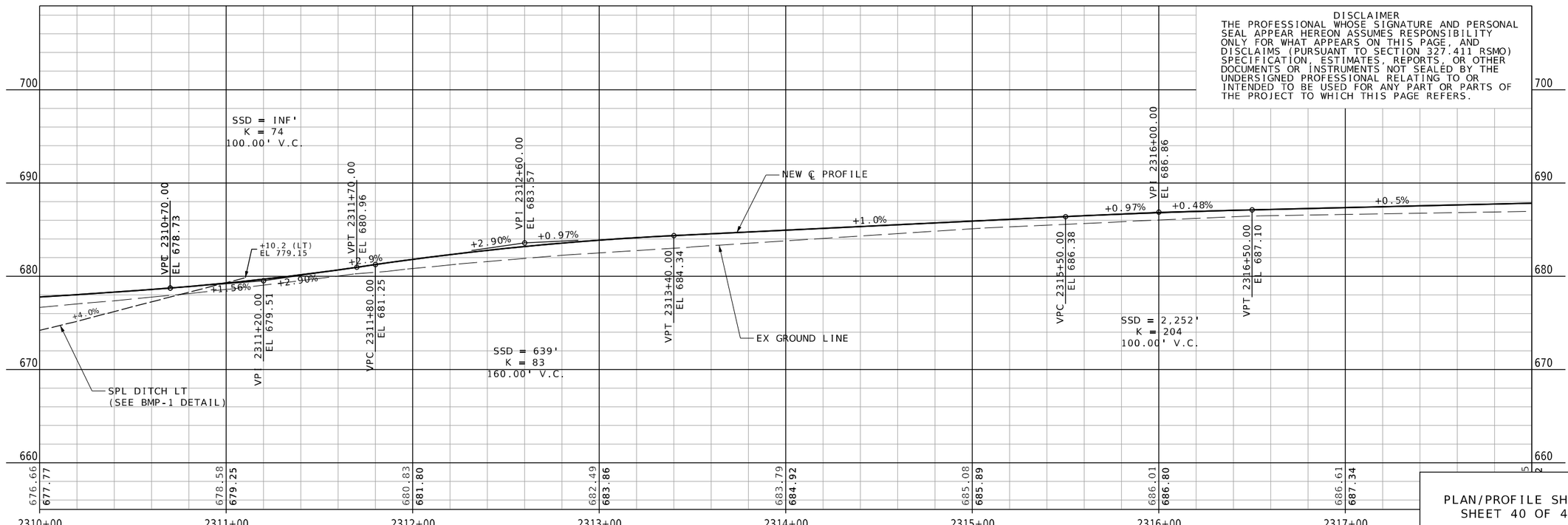
MISSOURI DESIGN FIRM PE-001166



NEW ℄ ROUTE 47
PI 2311+17.87
PC 2309+15.29
PT 2313+18.01
Δ 15°22'58.4 (RT)
D 3°49'11.0"
L 402.72' (ARC)
T 202.58'
R 1,500.00'



PLAN/PROFILE SHEET
SHEET 40 OF 47

STATE OF MISSOURI
JEFFREY R. RENSING
NUMBER PE-2006012376
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED
8/26/2025

ROUTE	STATE
47	MO
DISTRICT	SHEET NO.
NE	43

COUNTY
LINCOLN

JOB NO.
JNE0003

CONTRACT ID.
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PROJECT NO.
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BRIDGE NO.
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DESCRIPTION	DATE
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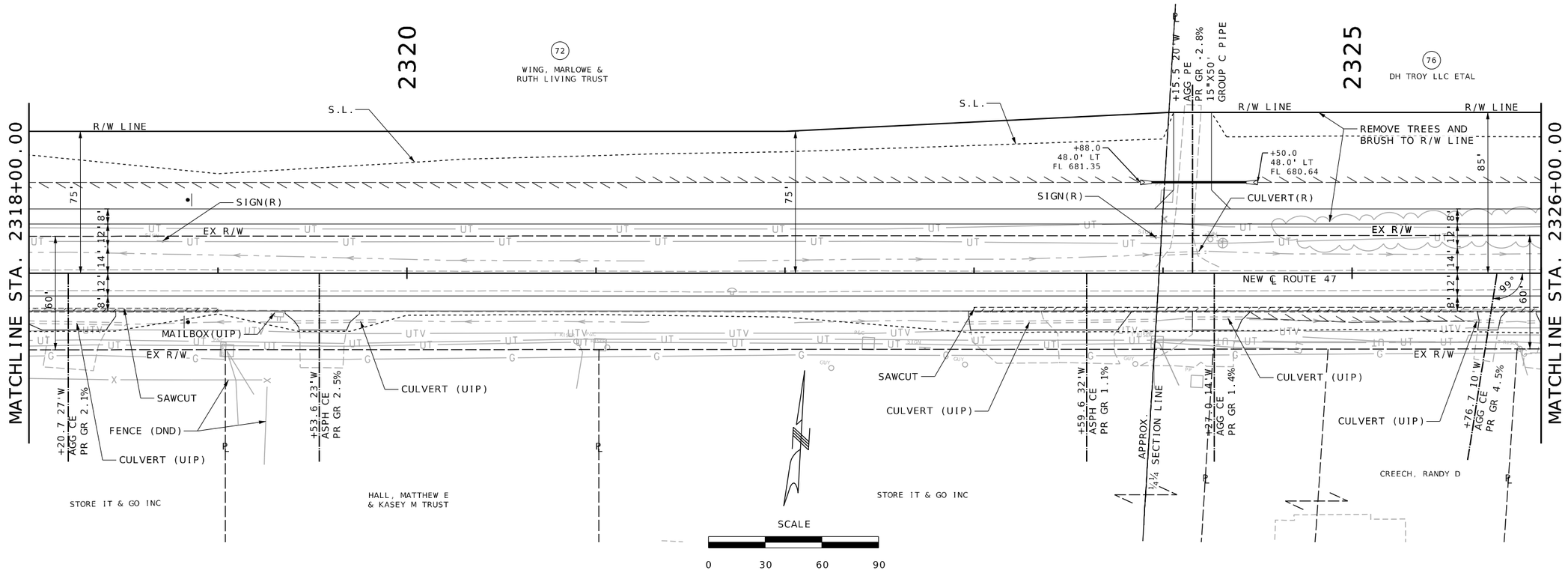

STATE OF MISSOURI
JEFFREY R. RENSING
NUMBER PE-2006012376
PROFESSIONAL ENGINEER

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DATE PREPARED	
8/26/2025	
ROUTE	STATE
47	MO
DISTRICT	SHEET NO.
NE	44

COUNTY: LINCOLN
JOB NO.: JNE0003
CONTRACT ID.: .
PROJECT NO.: .
BRIDGE NO.: .

DESCRIPTION	DATE
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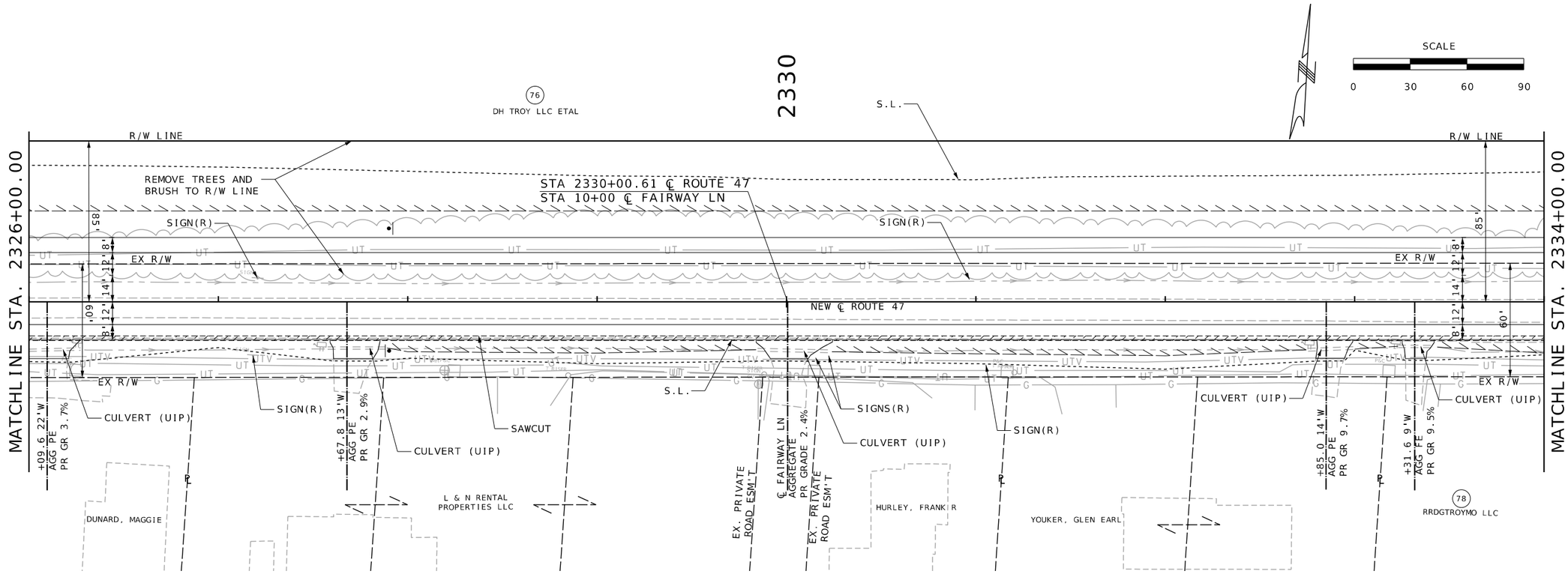
PLAN/PROFILE SHEET
SHEET 41 OF 47



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PLAN/PROFILE SHEET
SHEET 42 OF 47

STATE OF MISSOURI
JEFFREY R. RENSING
NUMBER PE-2006012376
PROFESSIONAL ENGINEER

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

DATE PREPARED	
8/26/2025	
ROUTE	STATE
47	MO
DISTRICT	SHEET NO.
NE	45
COUNTY	
LINCOLN	
JOB NO.	
JNE0003	
CONTRACT ID.	
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PROJECT NO.	
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BRIDGE NO.	
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DATE	DESCRIPTION
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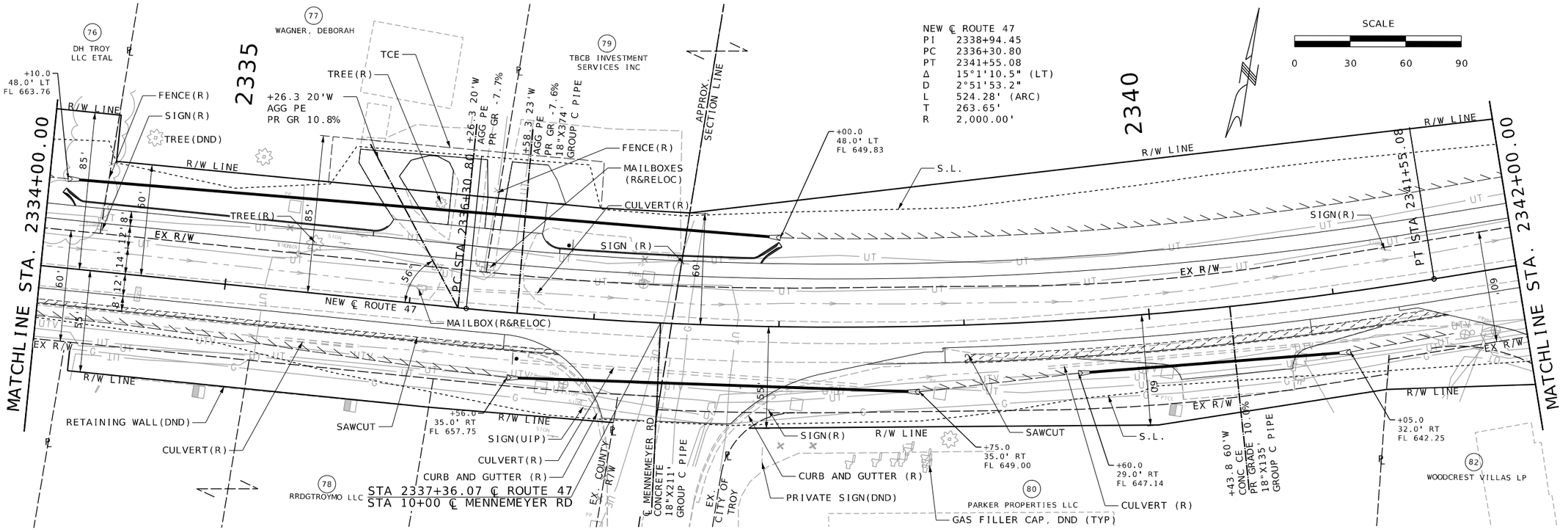

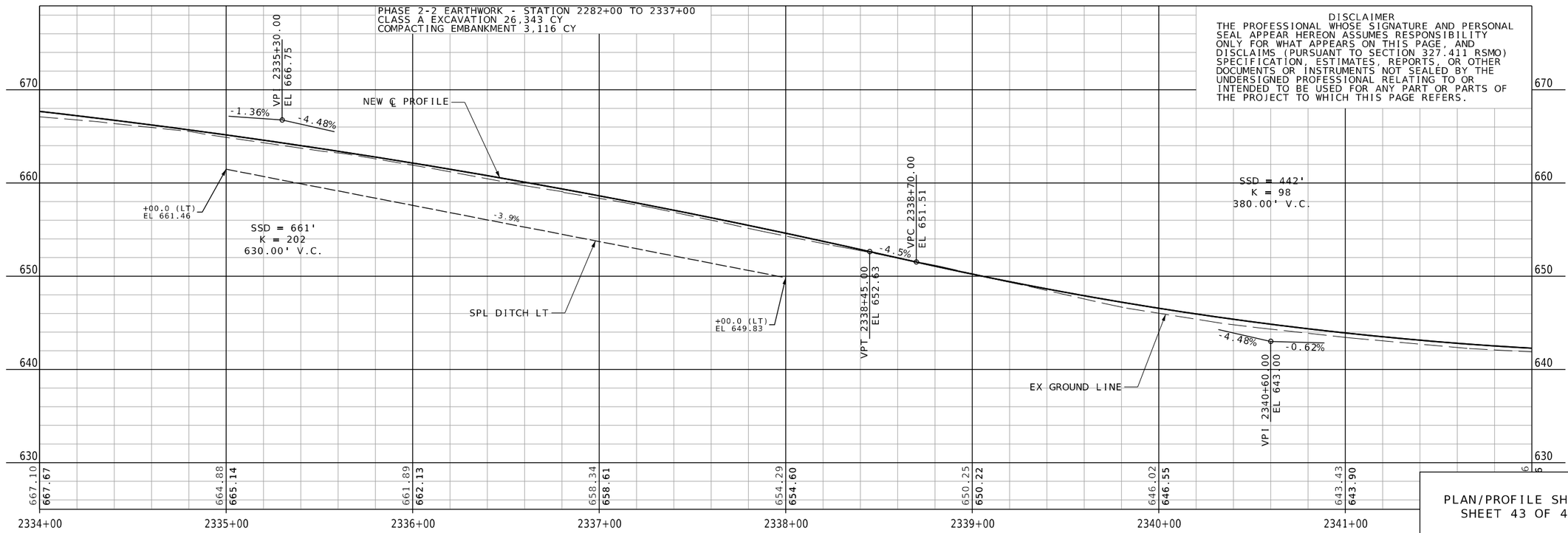

PLAN/PROFILE SHEET
SHEET 43 OF 47

STATE OF MISSOURI
JEFFREY R. RENSING
NUMBER PE-2006012376
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DATE PREPARED 8/26/2025

ROUTE	STATE
47	MO
DISTRICT	SHEET NO.
NE	46

COUNTY LINCOLN
JOB NO. JNE0003
CONTRACT ID. .
PROJECT NO. .
BRIDGE NO. .

DESCRIPTION	DATE
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MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
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MISSOURI DESIGN FIRM PE-001166

NEW ℄ ROUTE 47
PI 2357+36.00
PC 2349+06.99
PT 2365+59.40
Δ 11°32'45.1" (LT)
D 0°41'55.4
L 1,652.41' (ARC)
T 829.01'
R 8,200.00'

STA. 2348+19.62
58'X4'X2.5' PRCBC EXT.
WITH END SECTION
D.A.=63.92AC
Q_{10} =144.41CFS
Q_{50} =169.97CFS

2345

2350

79 TBCB INVESTMENT SERVICE INC

EX PRIVATE RD E'SMT

EX PRIVATE RD E'SMT

CONC. FLUME (R)

S.L.

83 CREECH, CLEM D & PATRICIA A

STA 2343+92.29 ℄ ROUTE 47
STA 10+00 ℄ MANDA RD

R/W LINE

R/W LINE

FENCE (R)

36 CY ROCK LINING
1.5' THICK

+50.0
56.3' LT
FL 637.02

MAILBOX(R&RELOC)

+50.0
49.1' LT
FL 637.02

℄ MANDA CT
2 - 36"X54'
CONCRETE
GROUP C PIPE

EX R/W

EX R/W

+25.0
58.6' LT
FL 635.73

FENCE POSTS (R)

+19.6
58.3' LT
FL 632.40

11 CY ROCK LINING
1' THICK

TCE

11 CY ROCK LINING
1' THICK

R/W LINE

95'

160'

160'

+25.0
51.5' LT
FL 635.73

SIGNS(R&RELOC)

SIGN(R&RELOC)

PC STA 2349+06.99

PR 4' X 2' RCBC EXTENSION
PR 4' X 2.5' CULVERT

EX R/W

EX R/W

EX R/W

66°

75°

88°

NEW ℄ ROUTE 47

MATCHLINE STA. 2342+00.00

MATCHLINE STA. 2350+00.00

EX R/W

EX R/W

EX R/W

R/W LINE

EX. CITY OF TROY R/W

EX. CITY OF TROY R/W

℄ WOODCREST DR
CONCRETE

82 WOODCREST VILLAS LP

+09.7 13'W
AGG PE
PR GR 10.2%

+11.9 15'W
AGG PE
PR GR 13.8%

PATTON, BARRY D

+00.8 30'W
CONC PE
PR GR 15.7%

+79.3 32'W
CONC PE
PR GR 18.9%

LINCOLN COUNTY R-111
SCHOOL DISTRICT

S.L.

MAILBOX (UIP)

ENTRANCE (UIP)

ENTRANCE (UIP)

ENTRANCE (UIP)

ENTRANCE (UIP)

MAILBOX(UIP)

PRIVATE SIGN(DND)

STA 2342+50.06 ℄ ROUTE 47
STA 10+00 ℄ WOODCREST DR

SCALE
0 30 60 90

PLAN/PROFILE SHEET
SHEET 44 OF 47

STATE OF MISSOURI
JEFFREY R. RENSING
NUMBER PE-2006012376
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

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

DATE PREPARED	
8/26/2025	
ROUTE	STATE
47	MO
DISTRICT	SHEET NO.
NE	47

COUNTY: LINCOLN
JOB NO.: JNE0003
CONTRACT ID.:
PROJECT NO.:
BRIDGE NO.:

DESCRIPTION | DATE

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

OATES ASSOCIATES

Collinsville
100 Lamer Court, Suite 1
Collinsville, IL 62234
618.345.2200

Belleville
1 South Church, Suite 200
Belleville, IL 62220
618.416.4588

St. Louis
720 Olive, Suite 700
St. Louis, MO 63101
314.588.8881

St. Charles
820 South Main, Suite 309
St. Charles, MO 63301
636.493.6577

www.oatesassociates.com

MISSOURI DESIGN FIRM PE-001166

H:\P\222102 - Route 47 Pavement, Safety, and Shoulder Improvements\CADD\Microstation\CADD Drawings\JNE0003 - sht-plnprf.dgn 8:13:19 AM 8/26/2025

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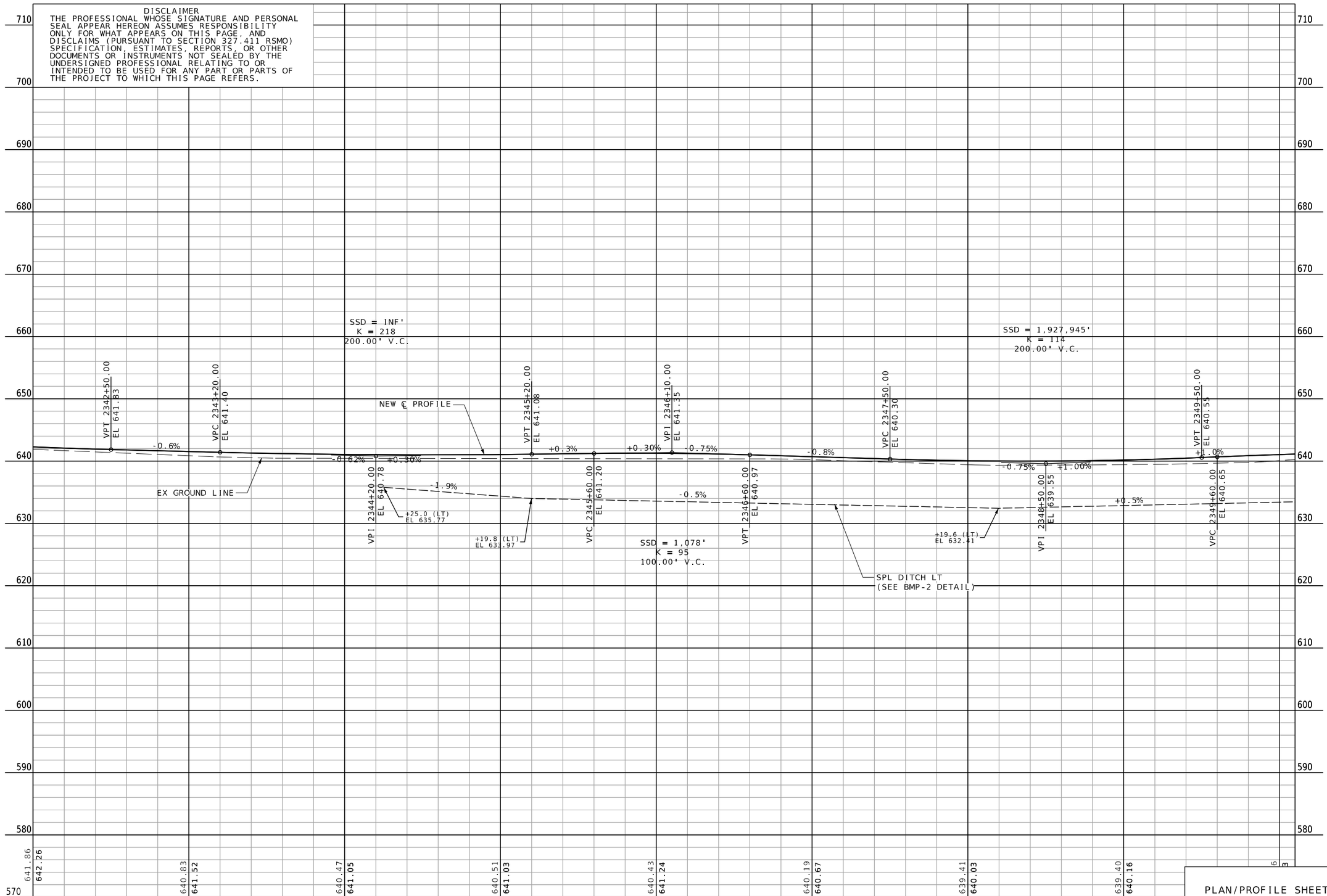

PLAN/PROFILE SHEET
SHEET 45 OF 47

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED
8/26/2025

ROUTE	STATE
47	MO
DISTRICT	SHEET NO.
NE	48

COUNTY
LINCOLN

JOB NO.
JNE0003

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

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

OATES ASSOCIATES
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100 Lanter Court, Suite 1
Collinsville, IL 62234
618.343.2300
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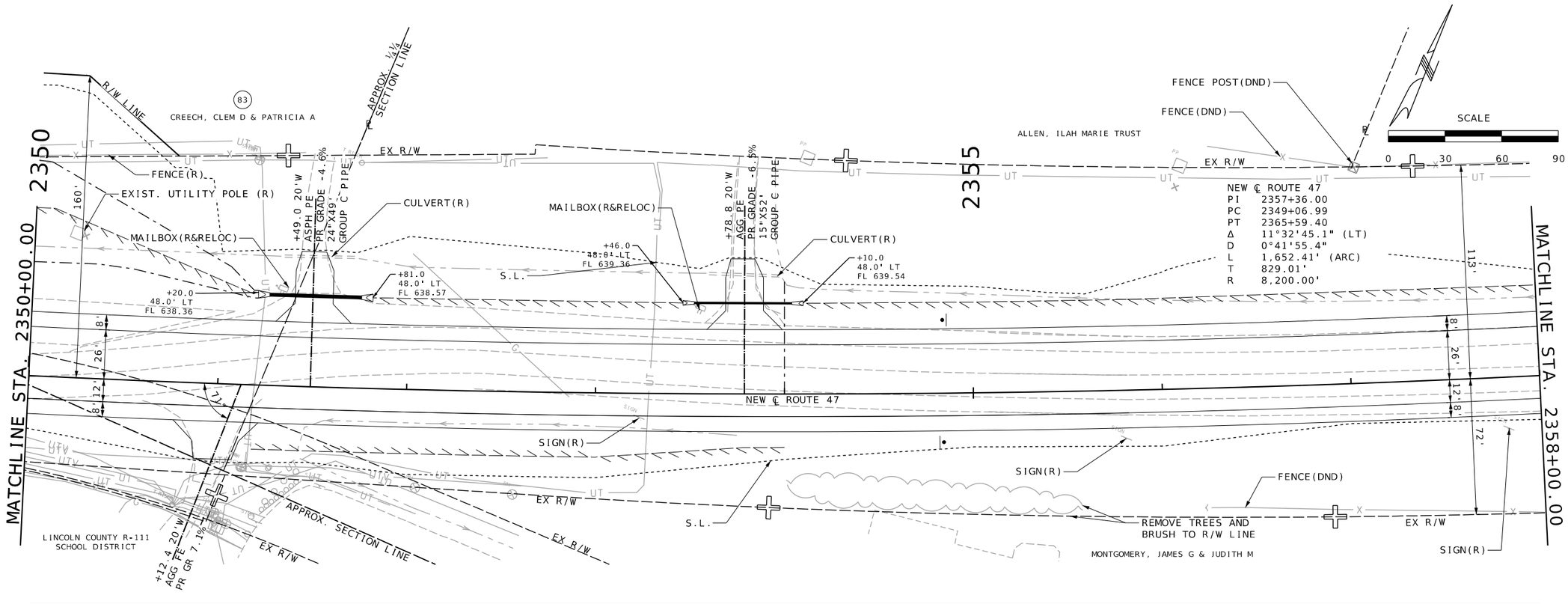
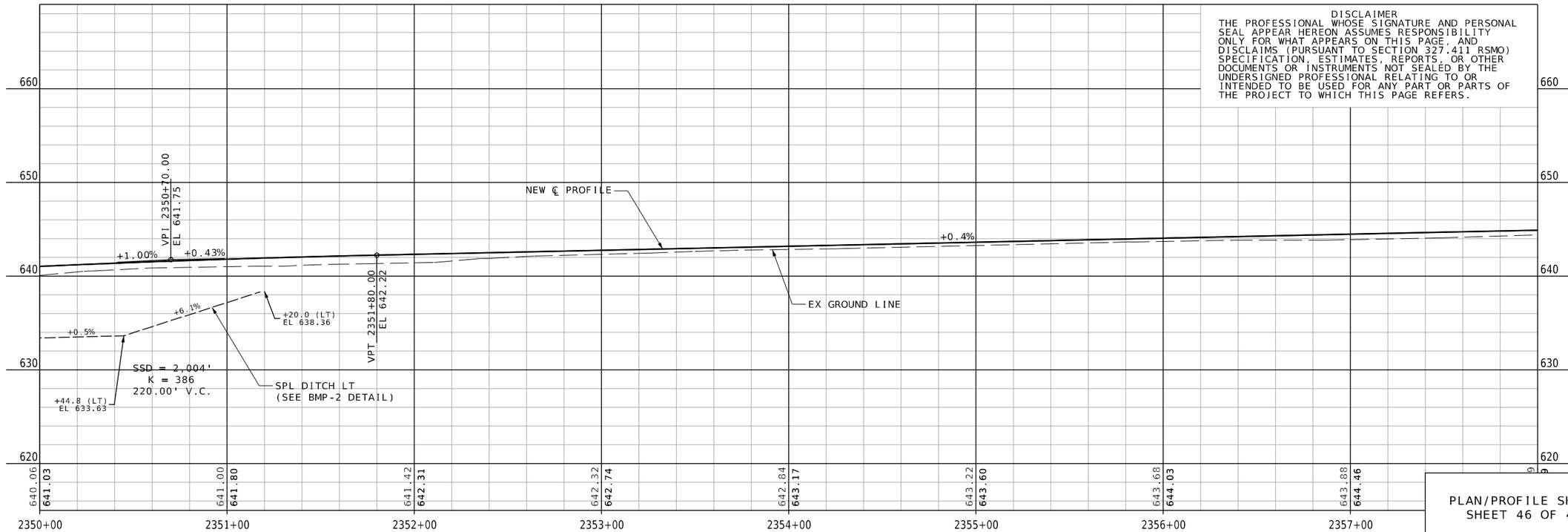
1 South Church, Suite 200
Belleville, IL 62220
618.416.6488
St. Louis
720 Olive, Suite 700
St. Louis, MO 63101
314.588.8181
St. Charles
820 South Main, Suite 309
St. Charles, MO 63301
636.493.8277
www.oatesassociates.com
MISSOURI DESIGN FIRM PE-001166

H:\P\222102 - Route 47 Pavement, Safety, and Shoulder Improvements\CADD\Microstation\CADD Drawings\JNE0003 - sht-plnprf.dgn 8:13:54 AM 8/26/2025





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PLAN/PROFILE SHEET
SHEET 46 OF 47

STATE OF MISSOURI
JEFFREY R. RENSING
NUMBER PE-2006012376
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED 8/26/2025

ROUTE	STATE
47	MO
DISTRICT	SHEET NO.
NE	49

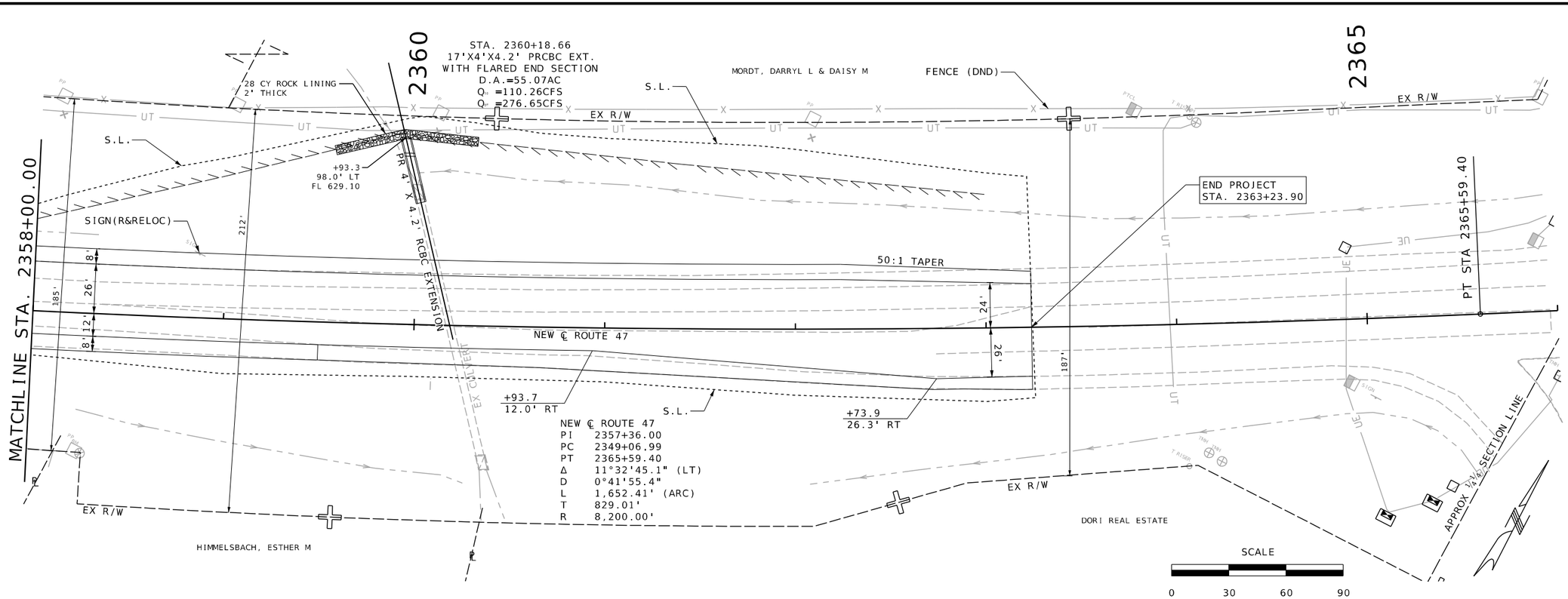
COUNTY: LINCOLN
JOB NO.: JNE0003
CONTRACT ID.:
PROJECT NO.:
BRIDGE NO.:

DATE	DESCRIPTION

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

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

OATES ASSOCIATES
MISSOURI DESIGN FIRM PE-001166
St. Louis
720 Olive, Suite 700
St. Louis, MO 63101
314.588.8181
St. Charles
805 South Main, Suite 309
St. Charles, MO 63301
636.493.6277
Collinsville
100 Lanter Court, Suite 1
Collinsville, IL 62234
618.345.2000
Belleville
1 South Church, Suite 200
Belleville, IL 62220
618.416.4858
www.oatesassociates.com



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PHASE 2-3 EARTHWORK - STATION 2337+00 TO 2363+23.90
CLASS A EXCAVATION 22,789 CY
COMPACTING EMBANKMENT 4,548 CY

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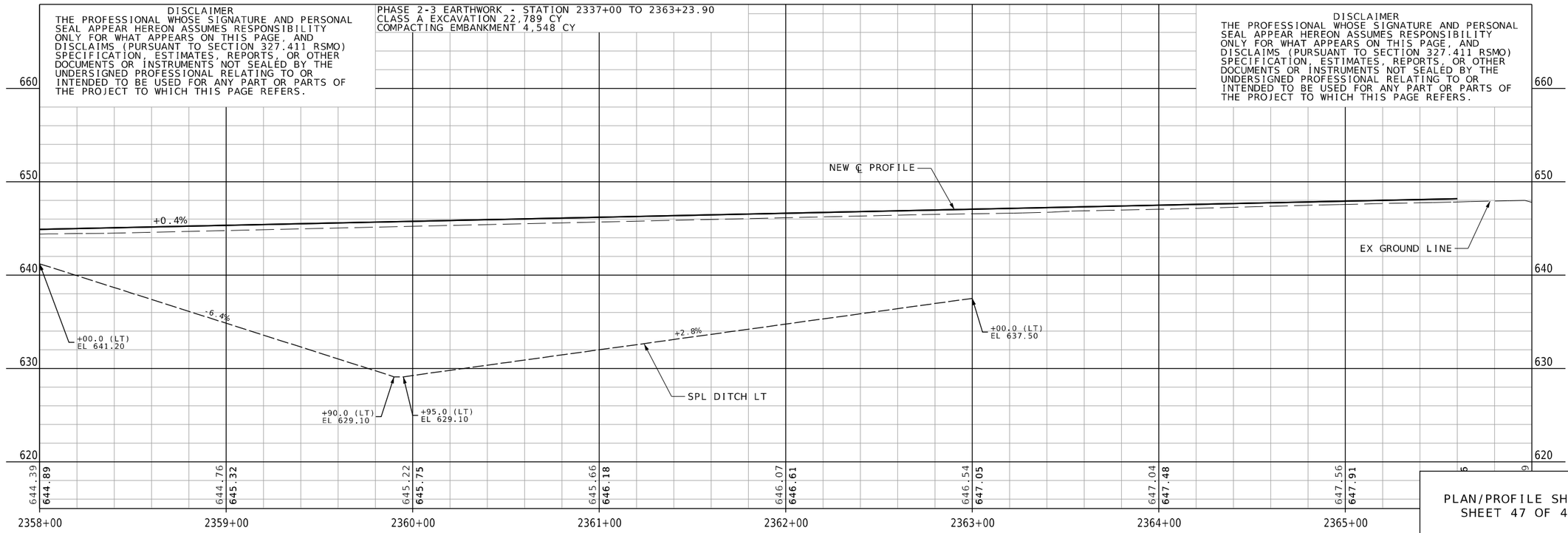

PLAN/PROFILE SHEET
SHEET 47 OF 47

STATE OF MISSOURI
JEFFREY R. RENSING
NUMBER PE-2006012376
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED
8/26/2025

ROUTE	STATE
47	MO
DISTRICT	SHEET NO.
NE	50

COUNTY
LINCOLN

JOB NO.
JNE0003

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

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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JEFFERSON CITY, MO 65102
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OATES ASSOCIATES

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St. Louis, MO 63101
314.588.8881

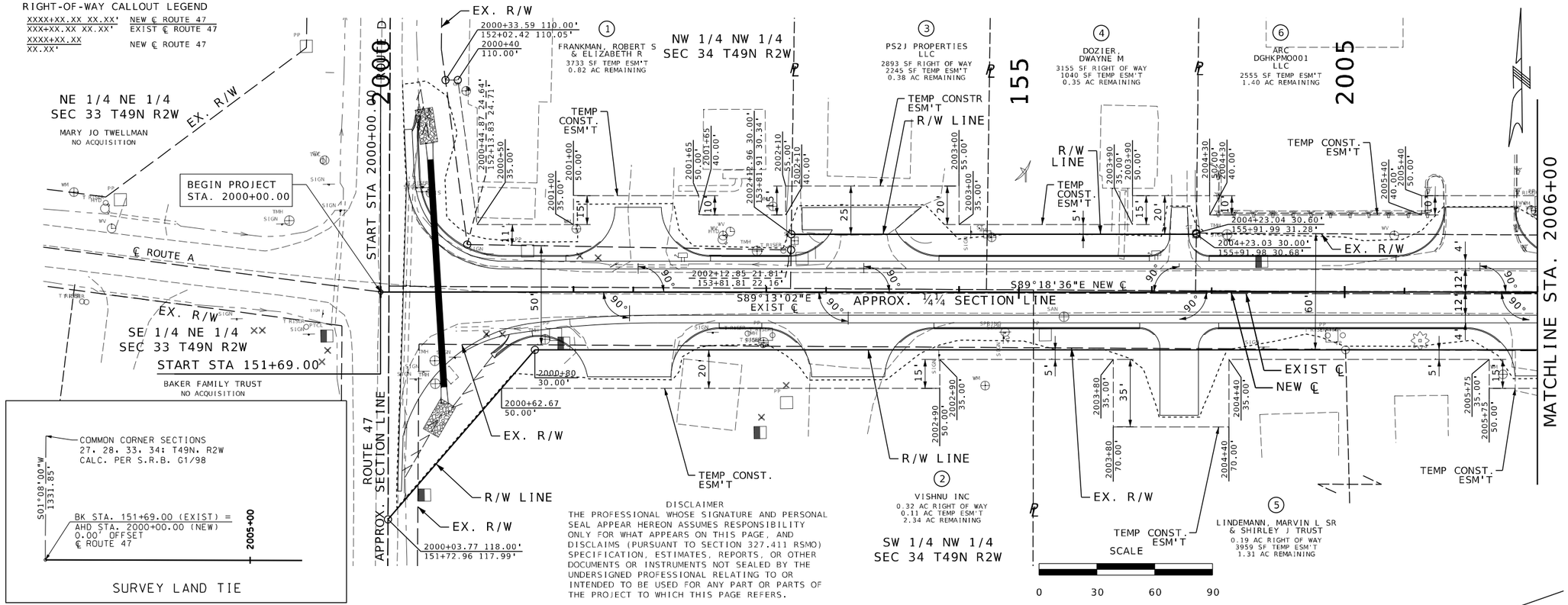
St. Charles
820 South Main, Suite 309
St. Charles, MO 63301
636.493.6277

www.oatesassociates.com

MISSOURI DESIGN FIRM PE-001166

RIGHT-OF-WAY CALLOUT LEGEND

XXXX+XX.XX XX.XX' NEW ℄ ROUTE 47
XXX+XX.XX XX.XX' EXIST ℄ ROUTE 47
XXXX+XX.XX NEW ℄ ROUTE 47
XX.XX'



SURVEY LAND TIE

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GENERAL NOTES:

ANY WORK INDICATED ON THE PLANS THAT EXTENDS BEYOND THE PROJECT LIMITS IS CONSIDERED INCIDENTAL TO AND A PART OF THE CONSTRUCTION OF THIS PROJECT.

NO DIRECT PAYMENT WILL BE MADE FOR ANY NECESSARY CLEARING AND GRUBBING.

RIGHT OF WAY LIMITS FOR THIS PROJECT EXTEND FROM STATION 2000+03.77 TO STATION 2350+75.00, A DISTANCE OF 6.642 MILES.

ALL BEARINGS BASED ON MISSOURI STATE PLANE EAST ZONE.

ANGLES SHOWN ON PROPERTY LINES ARE FROM AHEAD STATIONING.

SEE PLAN AND PROFILE SHEETS
FOR CONSTRUCTION DETAILS

RIGHT OF WAY PLAN
SHEET 1 OF 49

STATE OF MISSOURI
MARGARET ANN BRUNS
NUMBER PE-2010000798
PROFESSIONAL ENGINEER
7/29/2025 7:24:53 PM
Margaret Ann Bruns - Civil
MO PE-2010000798

DATE PREPARED
7/29/2025

ROUTE	STATE
47	MO
DISTRICT	SHEET NO.
NE	51

COUNTY
LINCOLN

JOB NO.
JNE0003

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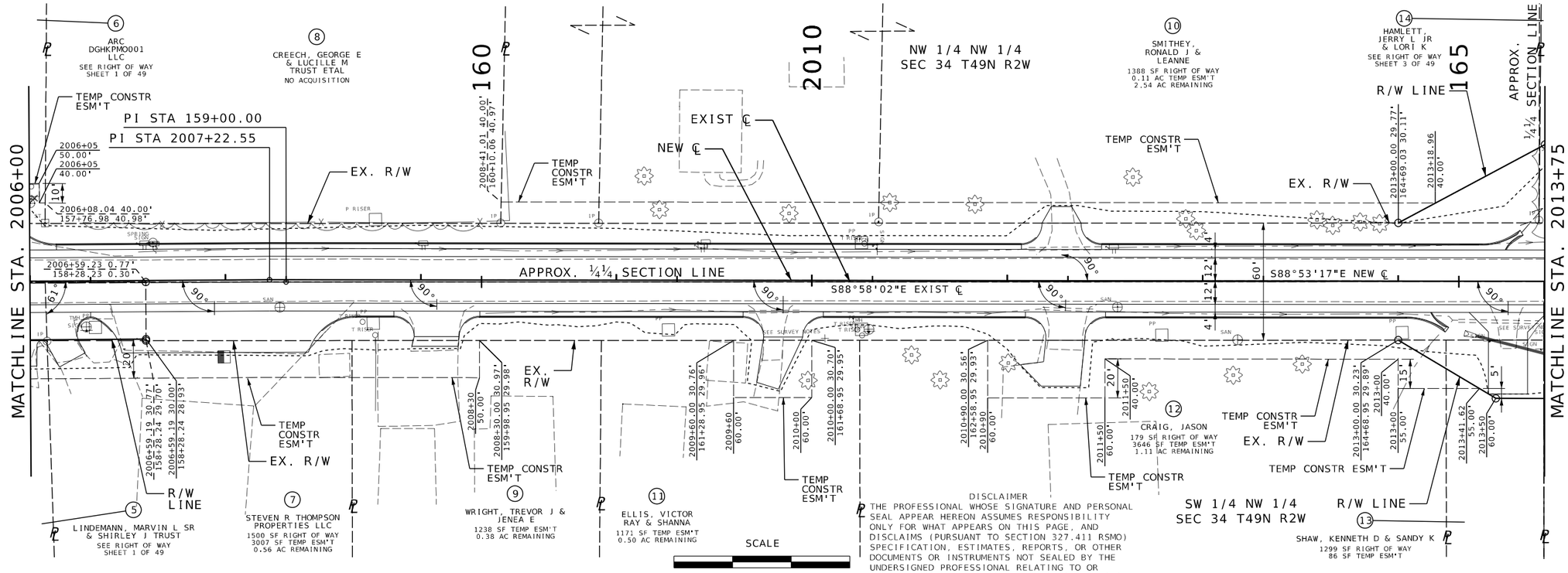
IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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

EFK•Moen
Civil Engineering Design
13523 Barrett Parkway Dr
Suite 250
St Louis, MO 63021
Phone 314-394-3100
Fax 314-394-3199
Missouri Certificate of Authority: 001578



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SEE PLAN AND PROFILE SHEETS FOR CONSTRUCTION DETAILS

RIGHT OF WAY PLAN
SHEET 2 OF 49

STATE OF MISSOURI
MARGARET ANN BRUNS NUMBER PE-2010000798
PROFESSIONAL ENGINEER
7/29/2025 7:25:03 PM
Margaret Ann Bruns - Civil
MO PE-2010000798

DATE PREPARED
7/29/2025

ROUTE	STATE
47	MO
DISTRICT	SHEET NO.
NE	52

COUNTY
LINCOLN

JOB NO.
JNE0003

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

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

EFK•Moen
Civil Engineering Design
13523 Barrett Parkway Dr
Suite 250
St Louis, MO 63021
Phone 314-394-3100
Fax 314-394-3199
Missouri Certificate of Authority: 001578

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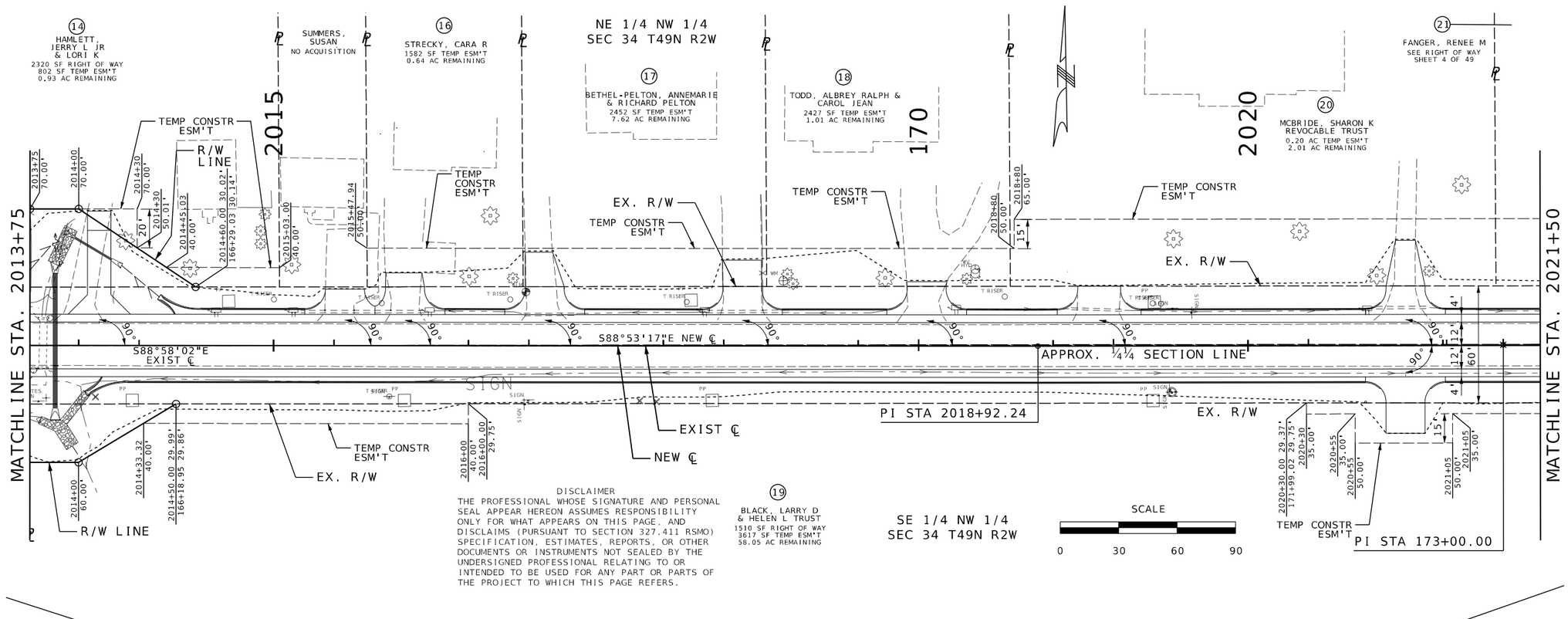

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SEE PLAN AND PROFILE SHEETS
FOR CONSTRUCTION DETAILS

RIGHT OF WAY PLAN
SHEET 3 OF 49

STATE OF MISSOURI
MARGARET ANN BRUNS
NUMBER PE-2010000798
PROFESSIONAL ENGINEER
7/29/2025 7:25:04 PM
Margaret Ann Bruns - Civil
MO PE-2010000798

DATE PREPARED
7/29/2025

ROUTE	STATE
47	MO
DISTRICT	SHEET NO.
NE	53

COUNTY
LINCOLN

JOB NO.
JNE0003

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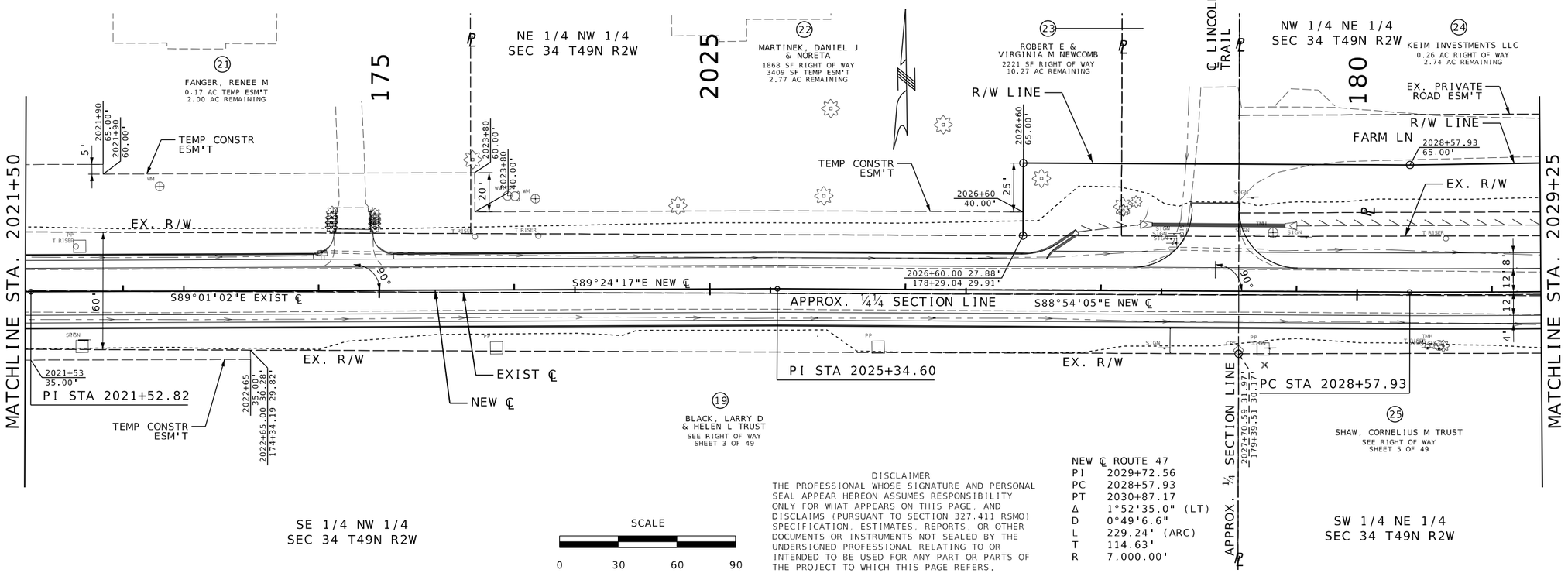
IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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

EFK•Moen
Civil Engineering Design
13523 Barrett Parkway Dr
Suite 250
St. Louis, MO 63021
Phone 314-394-3100
Fax 314-394-3199
Missouri Certificate of Authority: 001578



SCALE

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NEW ℄ ROUTE 47	
PI	2029+72.56
PC	2028+57.93
PT	2030+87.17
Δ	1°52'35.0" (LT)
D	0°49'6.6"
L	229.24' (ARC)
T	114.63'
R	7,000.00'

SEE PLAN AND PROFILE SHEETS
FOR CONSTRUCTION DETAILS

RIGHT OF WAY PLAN
SHEET 4 OF 49

STATE OF MISSOURI
MARGARET ANN BRUNS NUMBER PE-2010000798
PROFESSIONAL ENGINEER
7/29/2025 7:25:04 PM
Margaret Ann Bruns - Civil
MO PE-2010000798

DATE PREPARED
7/29/2025

ROUTE	STATE
47	MO
DISTRICT	SHEET NO.
NE	54

COUNTY
LINCOLN

JOB NO.
JNE0003

CONTRACT ID.
.

PROJECT NO.
.

BRIDGE NO.
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IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

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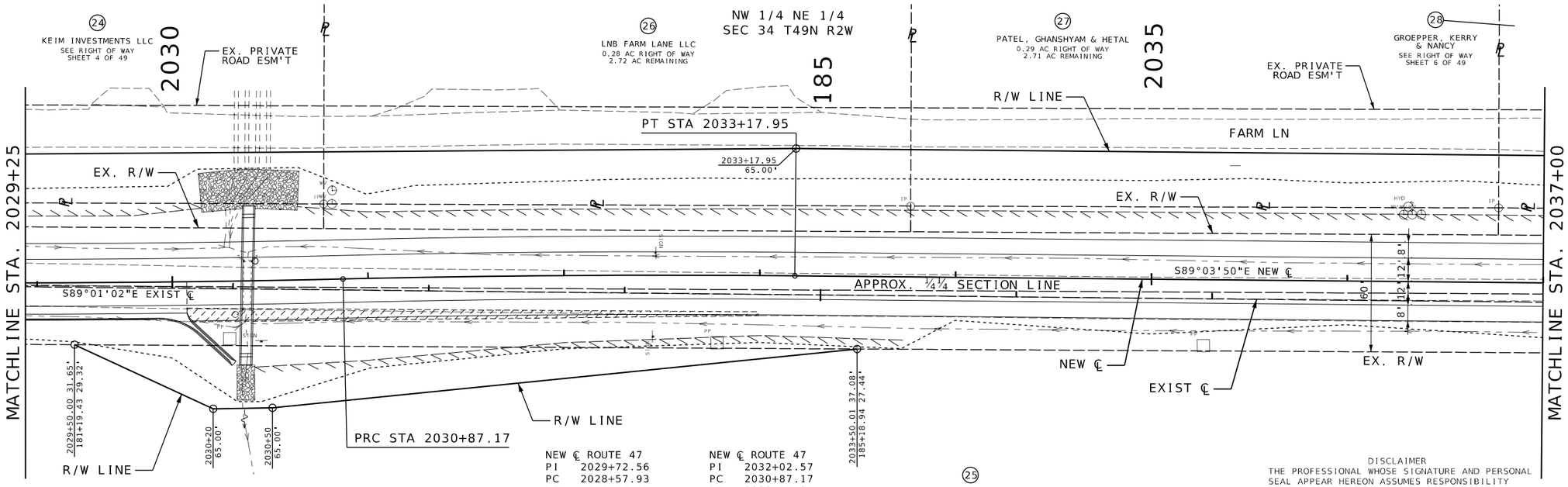
MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

EFK•Moen
Civil Engineering Design
13523 Barrett Parkway Dr
Suite 250
St. Louis, MO 63021
Phone 314-394-3100
Fax 314-394-3199
Missouri Certificate of Authority: 001578



NEW ℄ ROUTE 47		NEW ℄ ROUTE 47	
PI	2029+72.56	PI	2032+02.57
PC	2028+57.93	PC	2030+87.17
PT	2030+87.17	PT	2033+17.95
Δ	1°52'35.0" (LT)	Δ	1°53'20.2" (RT)
D	0°49'6.6"	D	0°49'6.6"
L	229.24' (ARC)	L	230.78' (ARC)
T	114.63'	T	115.40'
R	7,000.00'	R	7,000.00'

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SEE PLAN AND PROFILE SHEETS
FOR CONSTRUCTION DETAILS

RIGHT OF WAY PLAN
SHEET 5 OF 49

STATE OF MISSOURI
PROFESSIONAL ENGINEER
MARGARET ANN BRUNS
NUMBER PE-2010000798
7/29/2025 7:25:04 PM
Margaret Ann Bruns - Civil
MO PE-2010000798

DATE PREPARED
7/29/2025

ROUTE	STATE
47	MO
DISTRICT	SHEET NO.
NE	55

COUNTY
LINCOLN

JOB NO.
JNE0003

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

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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

EFK•Moen
Civil Engineering Design
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Suite 250
St. Louis, MO 63021
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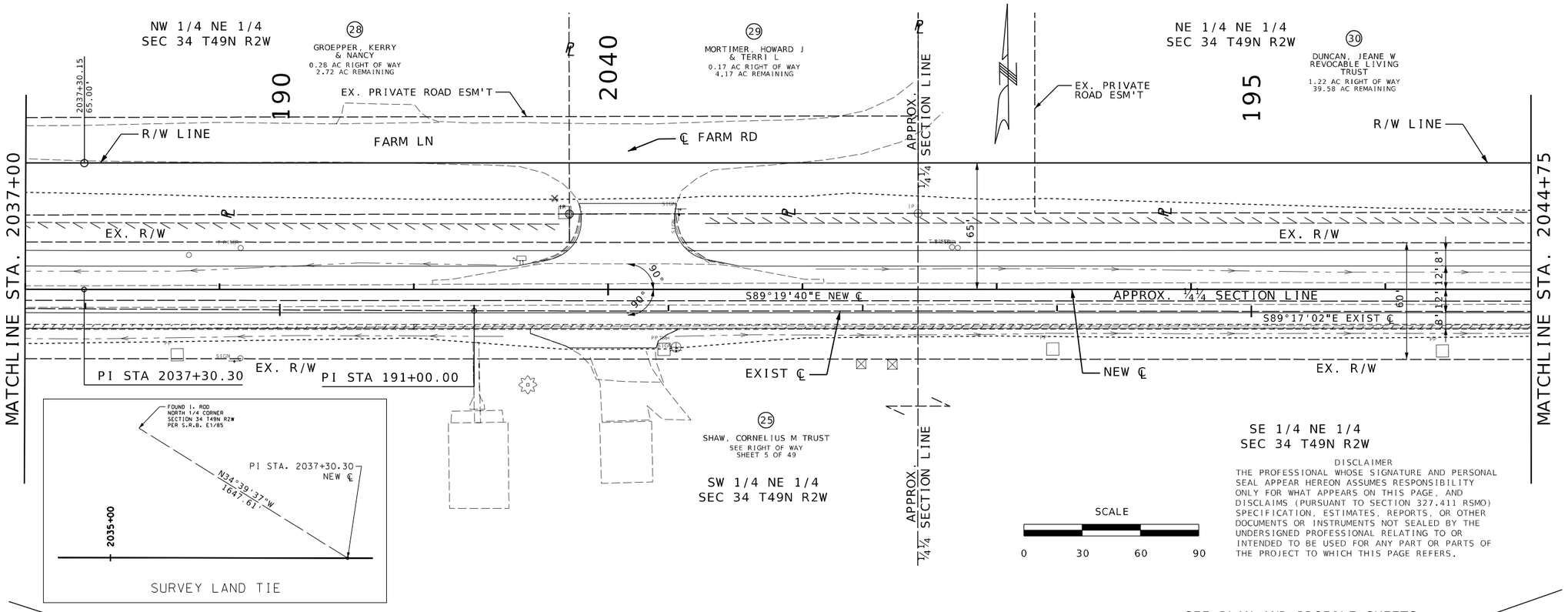
Missouri Certificate of Authority: 001578



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SEE PLAN AND PROFILE SHEETS
FOR CONSTRUCTION DETAILS

RIGHT OF WAY PLAN
SHEET 6 OF 49

STATE OF MISSOURI
PROFESSIONAL ENGINEER
MARGARET ANN BRUNS
NUMBER PE-2010000798

7/29/2025 7:25:04 PM
Margaret Ann Bruns - Civil
MO PE-2010000798

DATE PREPARED
7/29/2025

ROUTE	STATE
47	MO
DISTRICT	SHEET NO.
NE	56

COUNTY
LINCOLN

JOB NO.
JNE0003

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

MoDOT

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

EFK•Moen
Civil Engineering Design
13523 Barrett Parkway Dr
Suite 250
St. Louis, MO 63021
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Fax 314-394-3199
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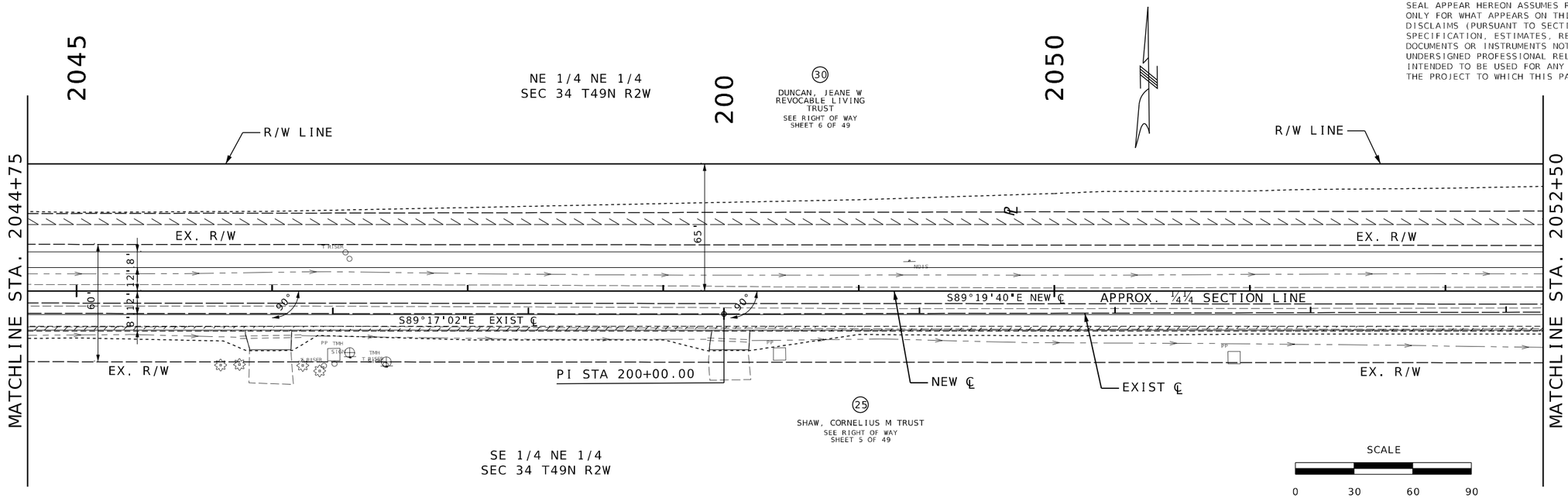

SEE PLAN AND PROFILE SHEETS
FOR CONSTRUCTION DETAILS

RIGHT OF WAY PLAN
SHEET 7 OF 49

STATE OF MISSOURI
PROFESSIONAL ENGINEER
MARGARET ANN BRUNS
NUMBER PE-2010000798
7/29/2025 7:25:04 PM
Margaret Ann Bruns - Civil
MO PE-2010000798

DATE PREPARED
7/29/2025

ROUTE	STATE
47	MO
DISTRICT	SHEET NO.
NE	57

COUNTY
LINCOLN

JOB NO.
JNE0003

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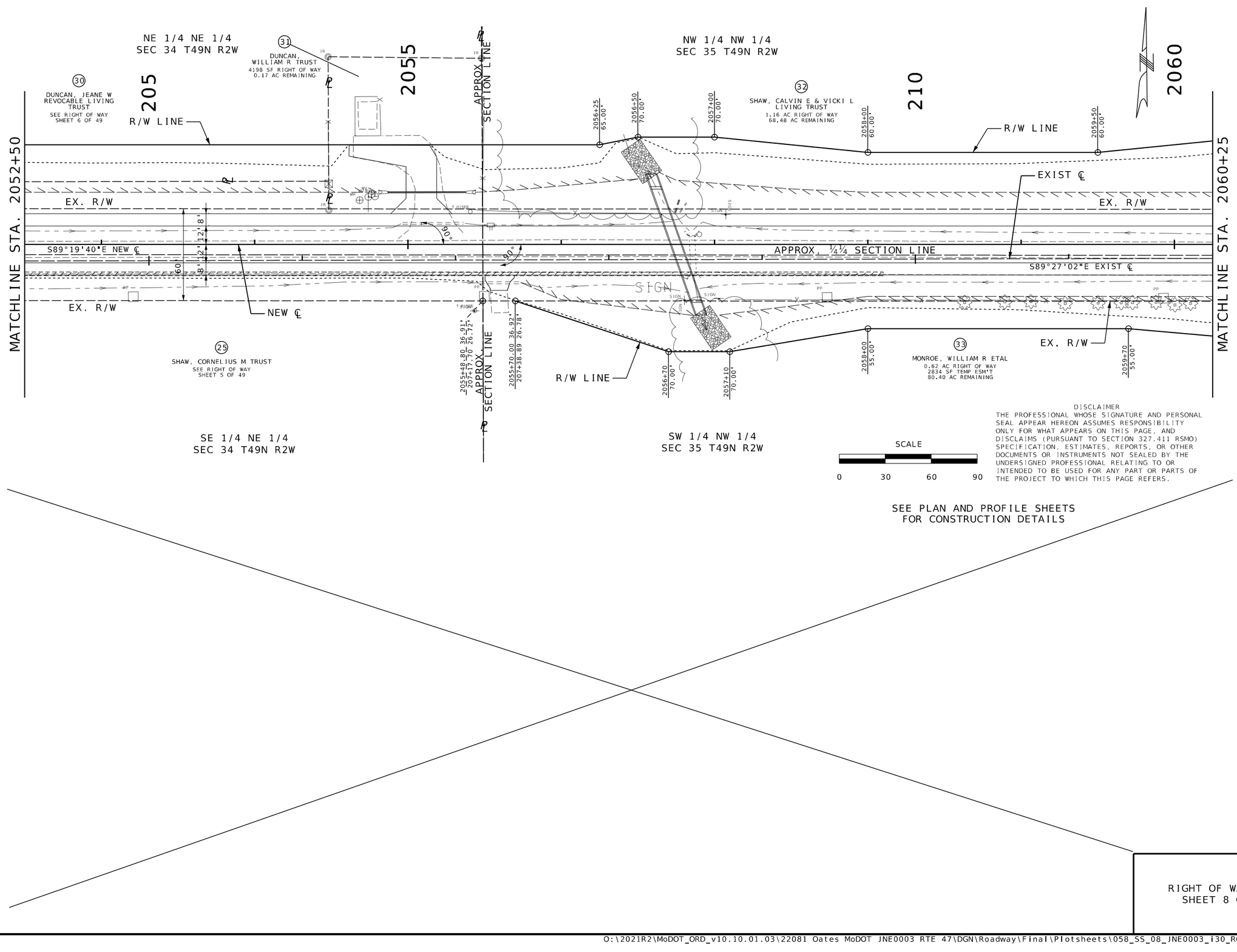
IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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

EFK•Moen
Civil Engineering Design
13523 Barrett Parkway Dr
Suite 250
St. Louis, MO 63021
Phone 314-394-3100
Fax 314-394-3199
Missouri Certificate of Authority: 001578



SCALE

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SEE PLAN AND PROFILE SHEETS
FOR CONSTRUCTION DETAILS

RIGHT OF WAY PLAN
SHEET 8 OF 49

STATE OF MISSOURI
MARGARET ANN BRUNS NUMBER PE-2010000798
PROFESSIONAL ENGINEER
7/29/2025 7:25:05 PM
Margaret Ann Bruns - Civil
MO PE-2010000798

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

DATE PREPARED	
7/29/2025	
ROUTE	STATE
47	MO
DISTRICT	SHEET NO.
NE	58

COUNTY
LINCOLN

JOB NO.
JNE0003

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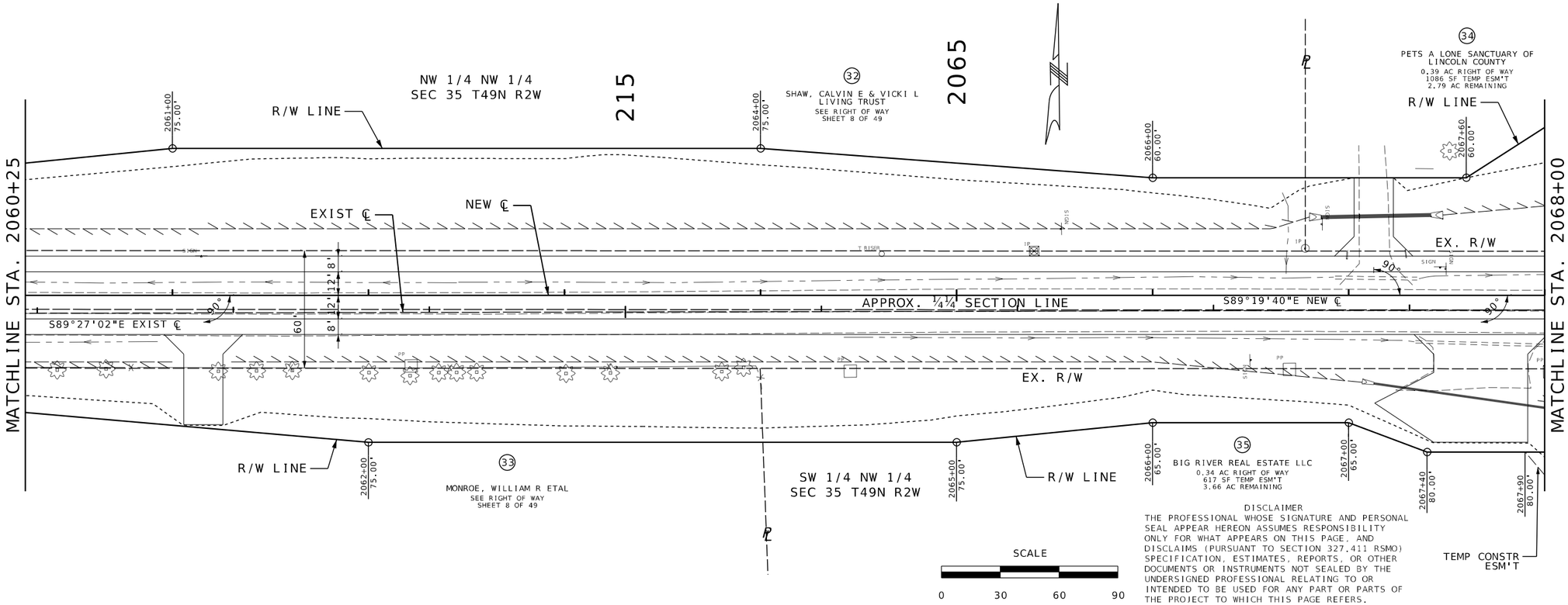

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SEE PLAN AND PROFILE SHEETS
FOR CONSTRUCTION DETAILS

RIGHT OF WAY PLAN
SHEET 9 OF 49

STATE OF MISSOURI
MARGARET ANN BRUNS
NUMBER PE-2010000798
PROFESSIONAL ENGINEER
7/29/2025 7:25:05 PM
Margaret Ann Bruns - Civil
MO PE-2010000798

DATE PREPARED
7/29/2025

ROUTE	STATE
47	MO
DISTRICT	SHEET NO.
NE	59

COUNTY
LINCOLN

JOB NO.
JNE0003

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

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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St. Louis, MO 63021
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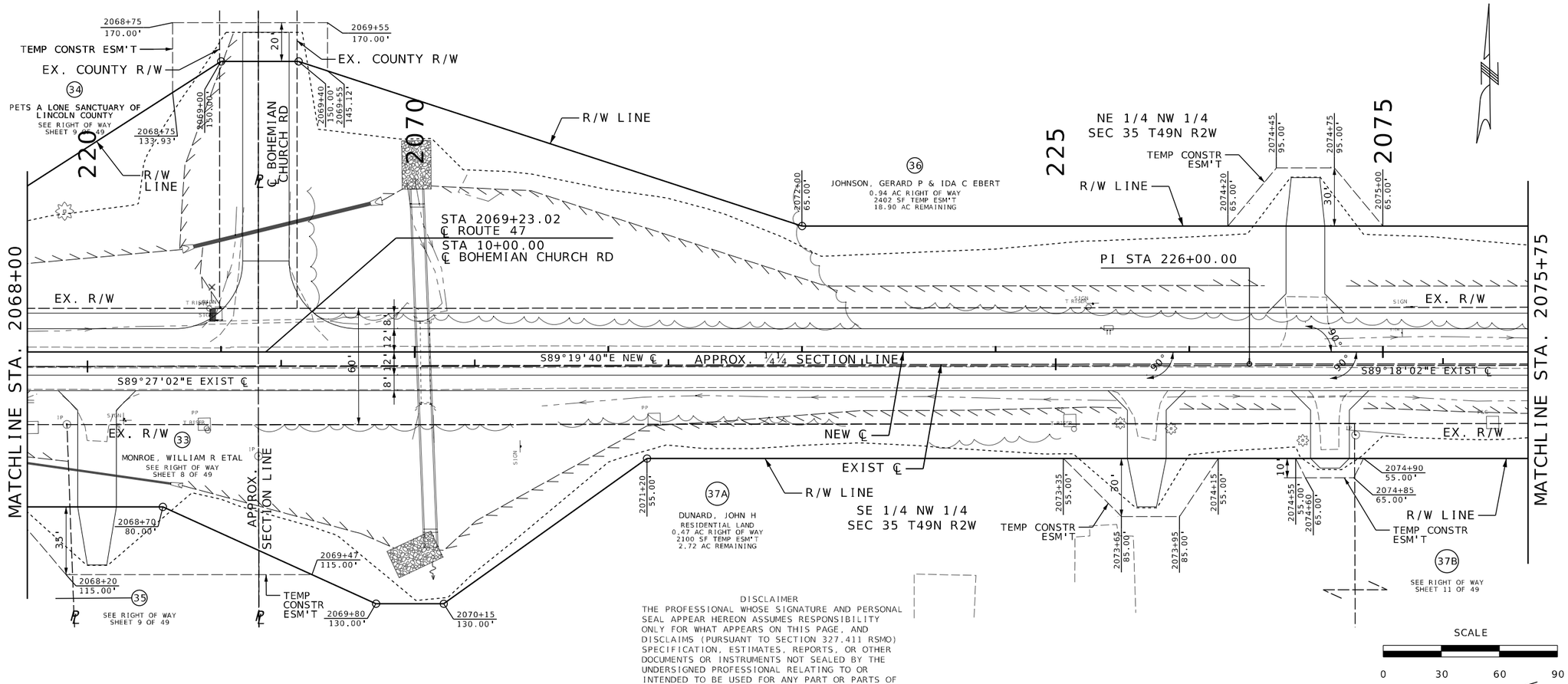
Missouri Certificate of Authority: 001578



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SCALE

0 30 60 90

SEE PLAN AND PROFILE SHEETS
FOR CONSTRUCTION DETAILS

RIGHT OF WAY PLAN
SHEET 10 OF 49

STATE OF MISSOURI
PROFESSIONAL ENGINEER
MARGARET ANN BRUNS
NUMBER PE-2010000798

7/29/2025 7:25:05 PM
Margaret Ann Bruns - Civil
MO PE-2010000798

DATE PREPARED
7/29/2025

ROUTE	STATE
47	MO
DISTRICT	SHEET NO.
NE	60

COUNTY
LINCOLN

JOB NO.
JNE0003

CONTRACT ID.
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PROJECT NO.
.

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

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

105 WEST CAPITOL
JEFFERSON CITY, MO 65102
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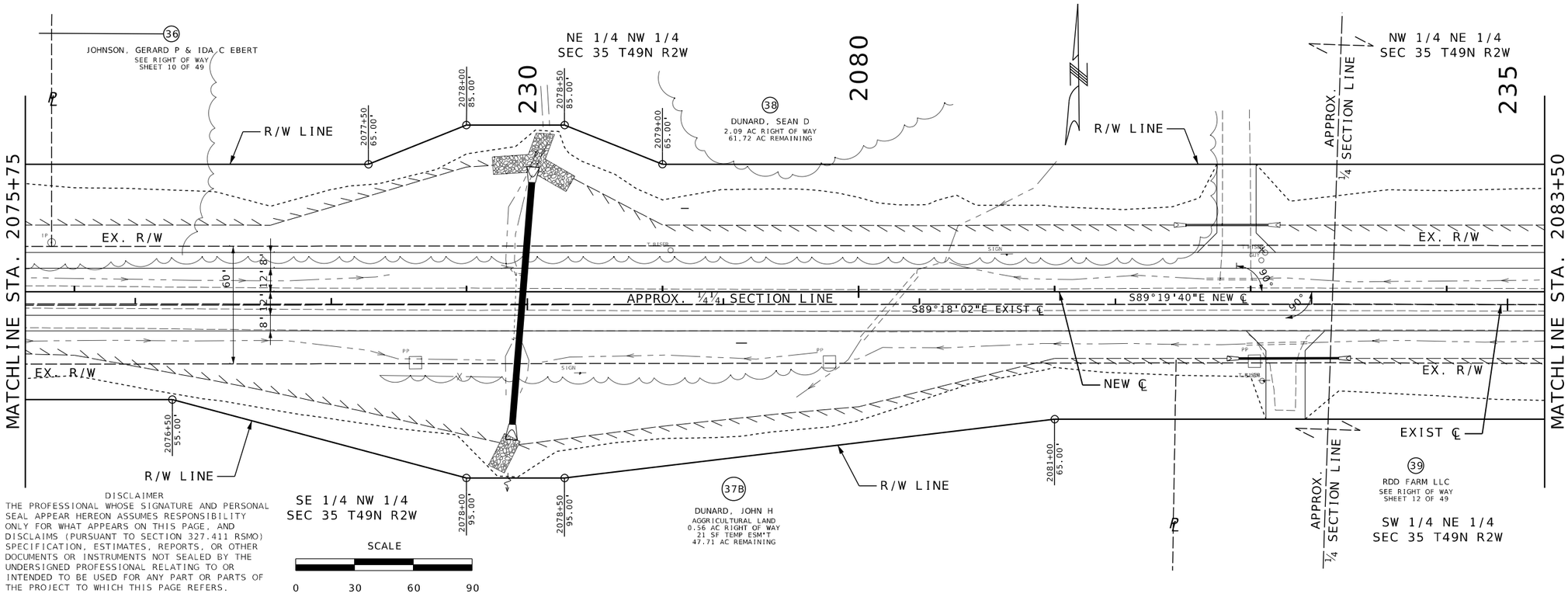

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SEE PLAN AND PROFILE SHEETS
FOR CONSTRUCTION DETAILS

RIGHT OF WAY PLAN
SHEET 11 OF 49

STATE OF MISSOURI
PROFESSIONAL ENGINEER
MARGARET ANN BRUNS
NUMBER PE-2010000798
7/29/2025 7:25:05 PM
Margaret Ann Bruns - Civil
MO PE-2010000798

DATE PREPARED
7/29/2025

ROUTE	STATE
47	MO
DISTRICT	SHEET NO.
NE	61

COUNTY
LINCOLN

JOB NO.
JNE0003

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

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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

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Suite 250
St Louis, MO 63021
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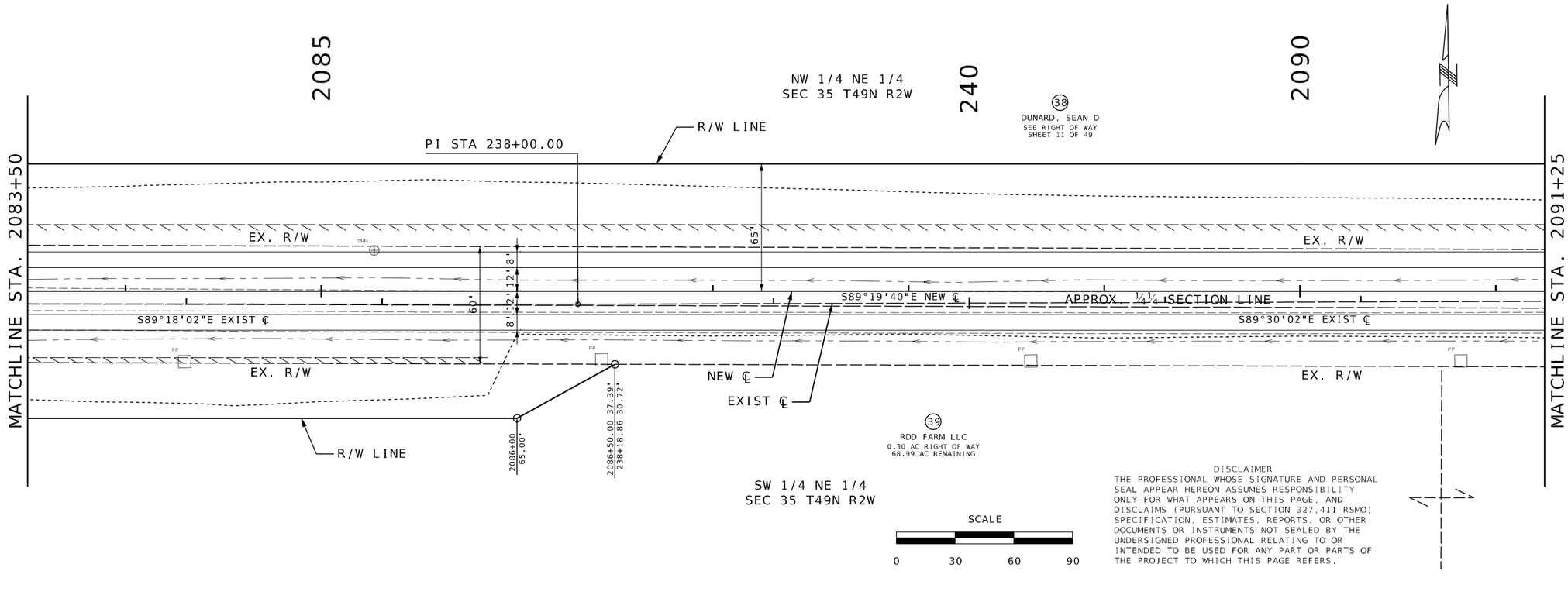

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SEE PLAN AND PROFILE SHEETS
FOR CONSTRUCTION DETAILS

RIGHT OF WAY PLAN
SHEET 12 OF 49

STATE OF MISSOURI
MARGARET ANN BRUNS
NUMBER PE-2010000798
PROFESSIONAL ENGINEER
7/29/2025 7:25:05 PM
Margaret Ann Bruns - Civil
MO PE-2010000798

DATE PREPARED
7/29/2025

ROUTE	STATE
47	MO
DISTRICT	SHEET NO.
NE	62

COUNTY
LINCOLN

JOB NO.
JNE0003

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

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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

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Civil Engineering Design
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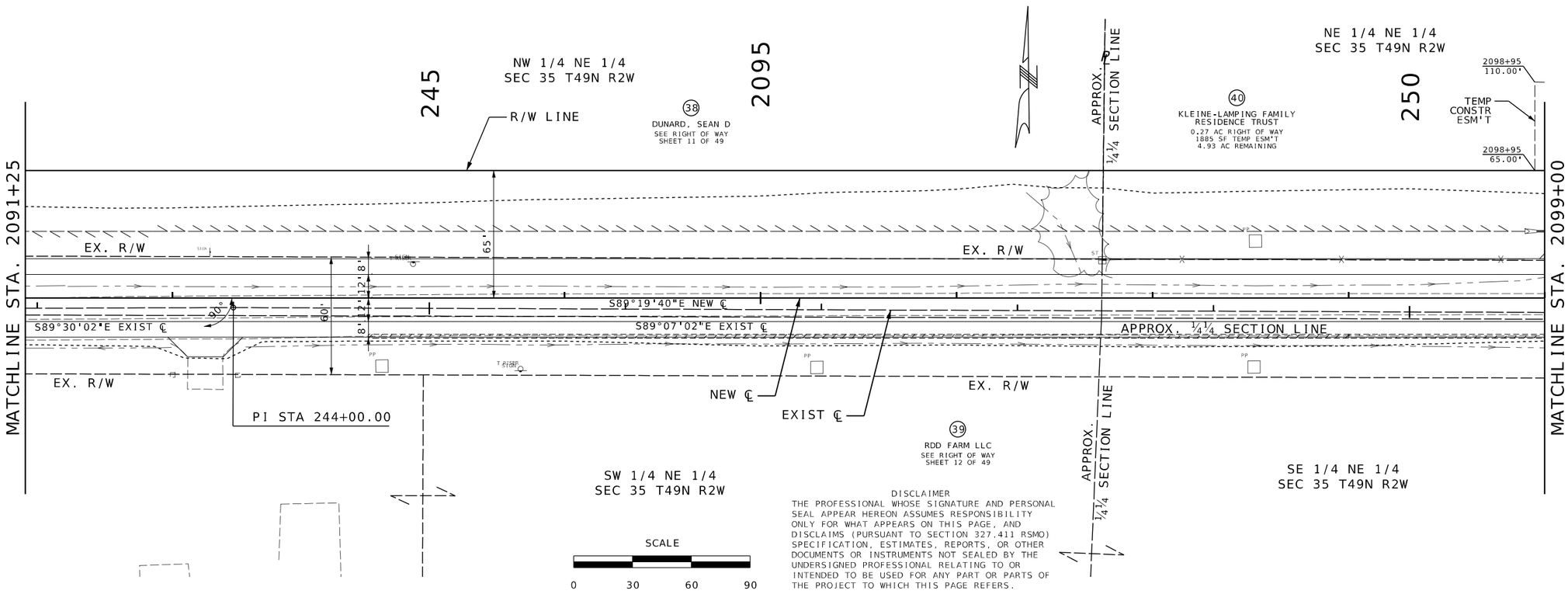
Suite 250
St. Louis, MO 63021
Phone 314-394-3100
Fax 314-394-3199
Missouri Certificate of Authority: 001578



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SEE PLAN AND PROFILE SHEETS
FOR CONSTRUCTION DETAILS

RIGHT OF WAY PLAN
SHEET 13 OF 49

STATE OF MISSOURI
MARGARET ANN BRUNS
NUMBER PE-2010000798
PROFESSIONAL ENGINEER
7/29/2025 7:25:05 PM
Margaret Ann Bruns - Civil
MO PE-2010000798

DATE PREPARED
7/29/2025

ROUTE	STATE
47	MO
DISTRICT	SHEET NO.
NE	63

COUNTY
LINCOLN

JOB NO.
JNE0003

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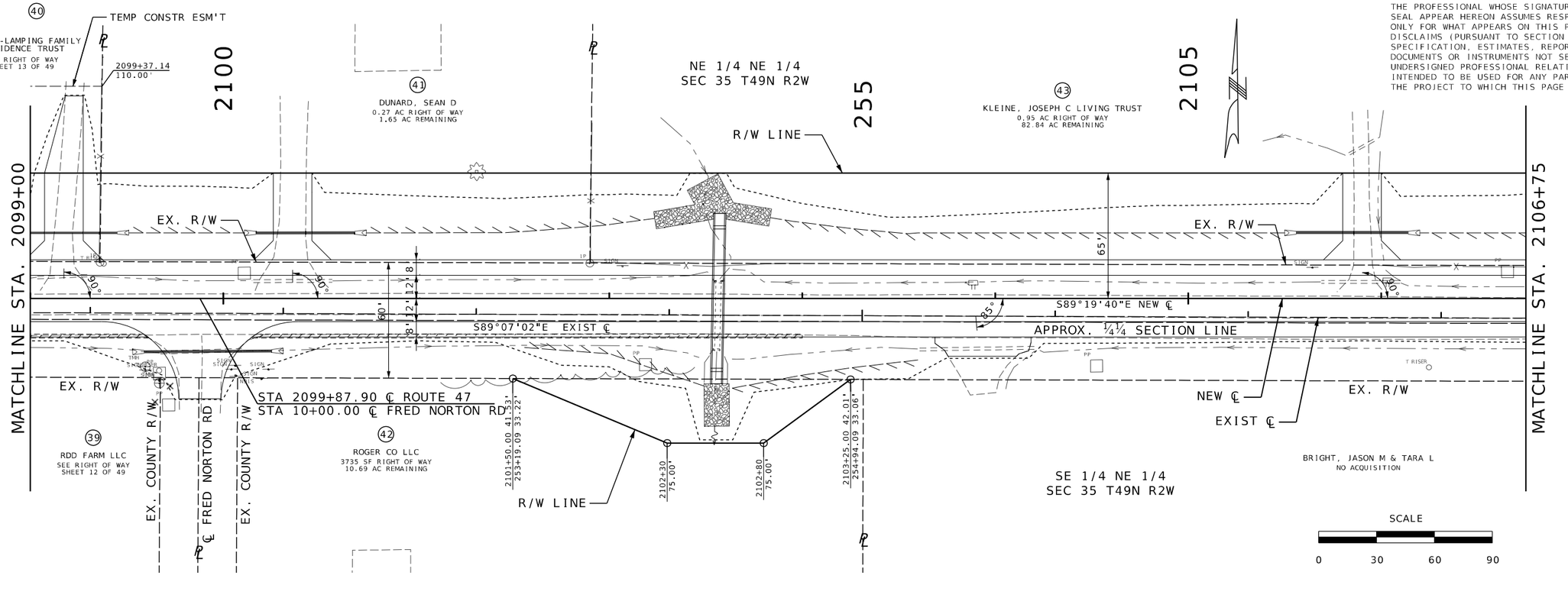
IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

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

EFK•Moen
Civil Engineering Design
13523 Barrett Parkway Dr
Suite 250
St Louis, MO 63021
Phone 314-394-3100
Fax 314-394-3199
Missouri Certificate of Authority: 001578



SEE PLAN AND PROFILE SHEETS
FOR CONSTRUCTION DETAILS

RIGHT OF WAY PLAN
SHEET 14 OF 49

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STATE OF MISSOURI
MARGARET ANN BRUNS
NUMBER PE-2010000798
PROFESSIONAL ENGINEER

7/29/2025 7:25:05 PM
Margaret Ann Bruns - Civil
MO PE-2010000798

DATE PREPARED
7/29/2025

ROUTE	STATE
47	MO
DISTRICT	SHEET NO.
NE	64

COUNTY
LINCOLN

JOB NO.
JNE0003

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

DESCRIPTION	DATE
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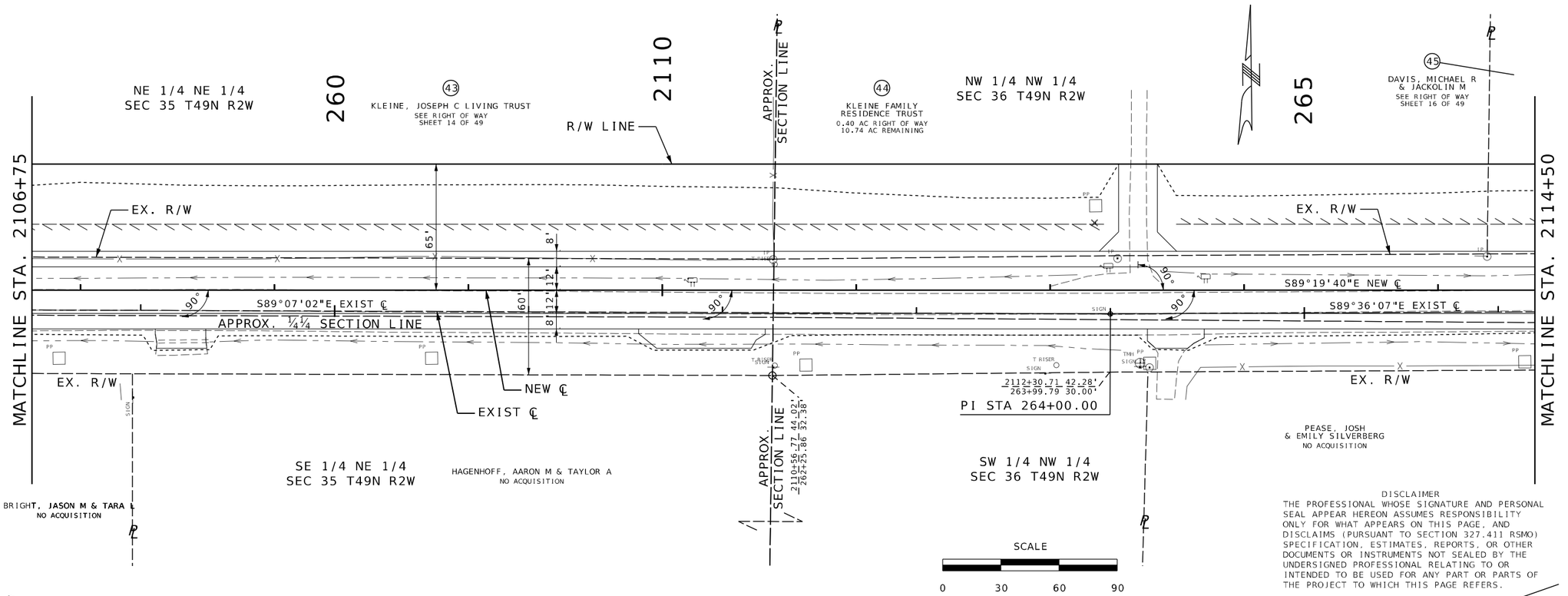
MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

MoDOT

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

EFK•Moen
Civil Engineering Design
13523 Barrett Parkway Dr
Suite 250
St. Louis, MO 63021
Phone 314-394-3100
Fax 314-394-3199
Missouri Certificate of Authority: 001578



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SEE PLAN AND PROFILE SHEETS
FOR CONSTRUCTION DETAILS

RIGHT OF WAY PLAN
SHEET 15 OF 49

STATE OF MISSOURI
MARGARET ANN BRUNS
NUMBER PE-2010000798
PROFESSIONAL ENGINEER

7/29/2025 7:25:06 PM
Margaret Ann Bruns - Civil
MO PE-2010000798

DATE PREPARED
7/29/2025

ROUTE	STATE
47	MO
DISTRICT	SHEET NO.
NE	65

COUNTY
LINCOLN

JOB NO.
JNE0003

CONTRACT ID.
.

PROJECT NO.
.

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

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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

EFK•Moen
Civil Engineering Design
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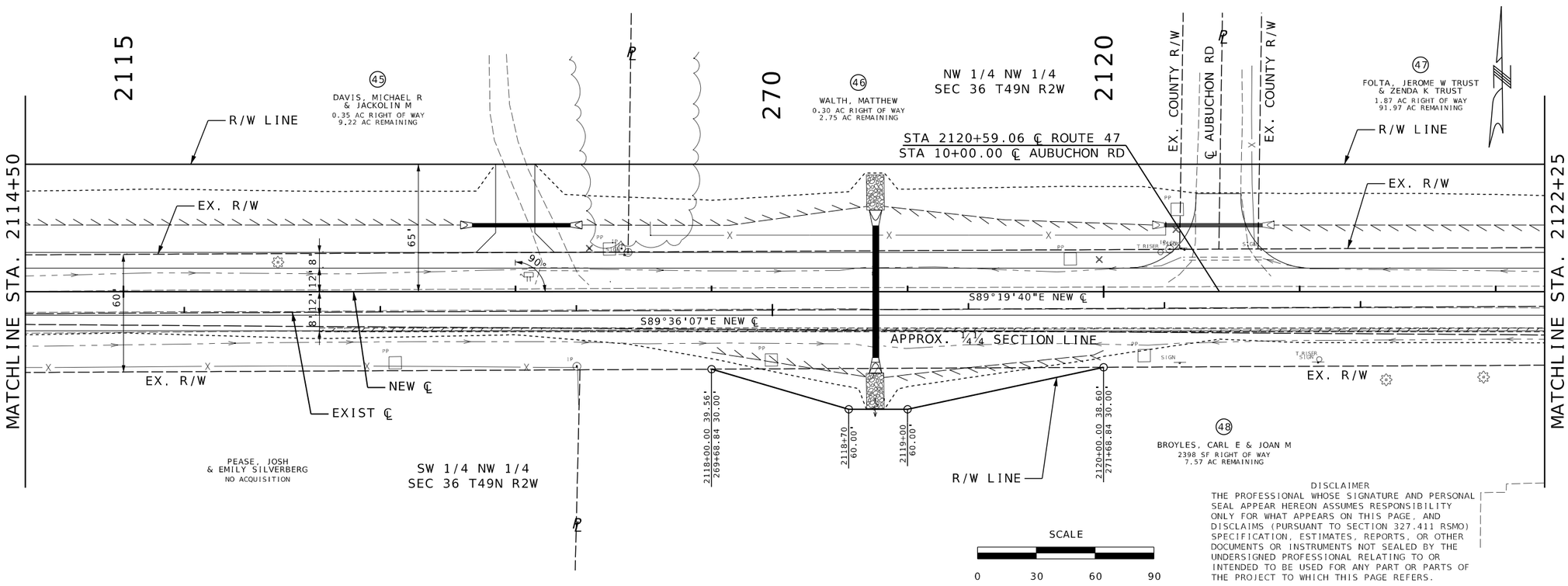
Suite 250
St Louis, MO 63021
Phone 314-394-3100
Fax 314-394-3199
Missouri Certificate of Authority: 001578



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SEE PLAN AND PROFILE SHEETS
FOR CONSTRUCTION DETAILS

RIGHT OF WAY PLAN
SHEET 16 OF 49

STATE OF MISSOURI
MARGARET ANN BRUNS
NUMBER PE-2010000798
PROFESSIONAL ENGINEER
7/29/2025 7:25:06 PM
Margaret Ann Bruns - Civil
MO PE-2010000798

DATE PREPARED
7/29/2025

ROUTE	STATE
47	MO
DISTRICT	SHEET NO.
NE	66

COUNTY
LINCOLN

JOB NO.
JNE0003

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

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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

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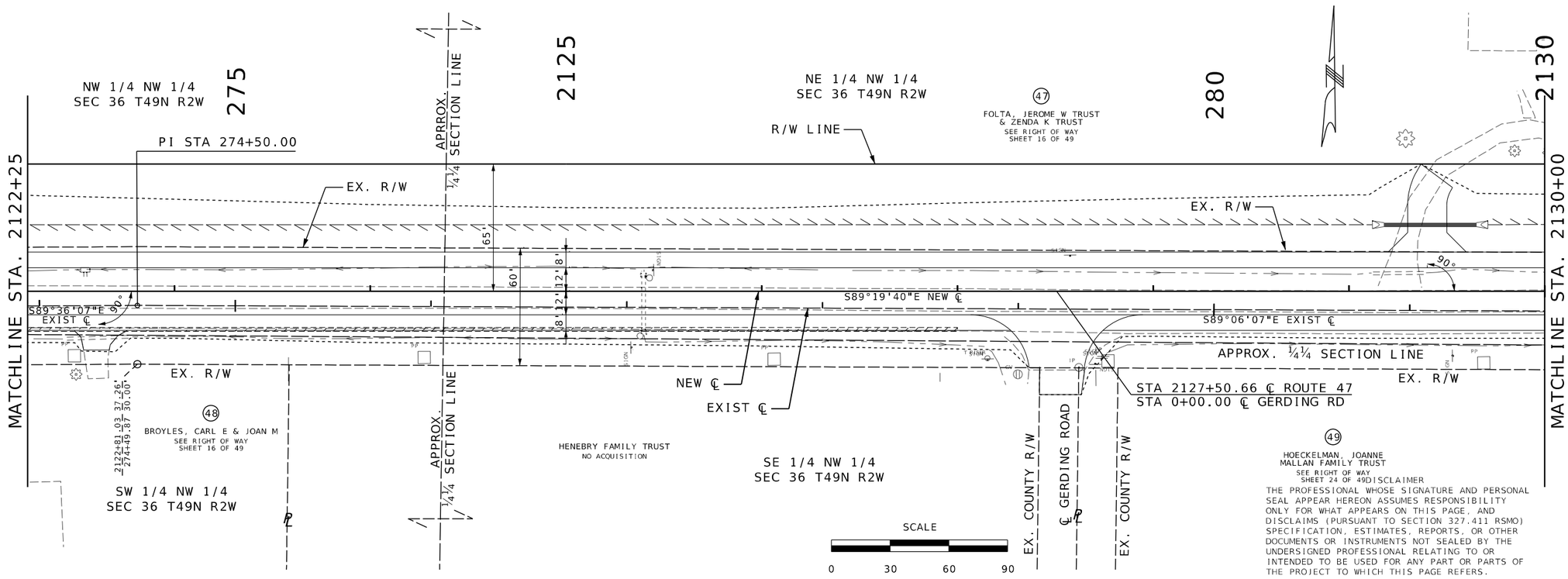

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SEE PLAN AND PROFILE SHEETS
FOR CONSTRUCTION DETAILS

RIGHT OF WAY PLAN
SHEET 17 OF 49

STATE OF MISSOURI
MARGARET ANN BRUNS
NUMBER PE-2010000798
PROFESSIONAL ENGINEER

7/29/2025 7:25:06 PM
Margaret Ann Bruns - Civil
MO PE-2010000798

DATE PREPARED	
7/29/2025	
ROUTE	STATE
47	MO
DISTRICT	SHEET NO.
NE	67

COUNTY
LINCOLN

JOB NO.
JNE0003

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

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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

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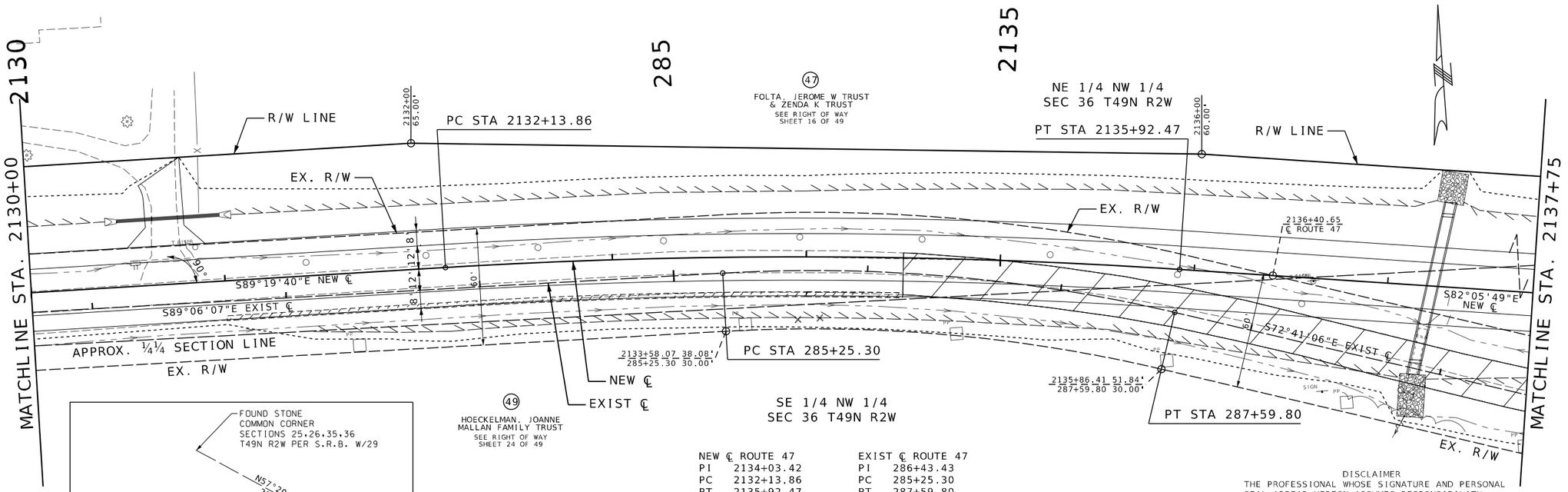
Fax 314-394-3199
Missouri Certificate of Authority: 001578



NEW ℄ ROUTE 47		EXIST ℄ ROUTE 47	
PI	2134+03.42	PI	286+43.43
PC	2132+13.86	PC	285+25.30
PT	2135+92.47	PT	287+59.80
Δ	7°13'51.7" (RT)	Δ	16°25'1.0" (RT)
D	1°54'35.5"	D	7°0'3.0"
L	378.62' (ARC)	L	234.65' (CHORD)
T	189.56'	T	118.13'
R	3,000.00'	R	818.92'

SCALE

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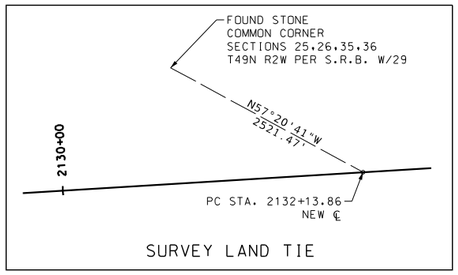

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SEE PLAN AND PROFILE SHEETS
FOR CONSTRUCTION DETAILS

RIGHT OF WAY PLAN
SHEET 18 OF 49

STATE OF MISSOURI
PROFESSIONAL ENGINEER
MARGARET ANN BRUNS
NUMBER PE-2010000798

7/29/2025 7:25:06 PM
Margaret Ann Bruns - Civil
MO PE-2010000798

DATE PREPARED
7/29/2025

ROUTE	STATE
47	MO
DISTRICT	SHEET NO.
NE	68

COUNTY
LINCOLN

JOB NO.
JNE0003

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DESCRIPTION	DATE

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

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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

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Phone 314-394-3100
Fax 314-394-3199
Missouri Certificate of Authority: 001578

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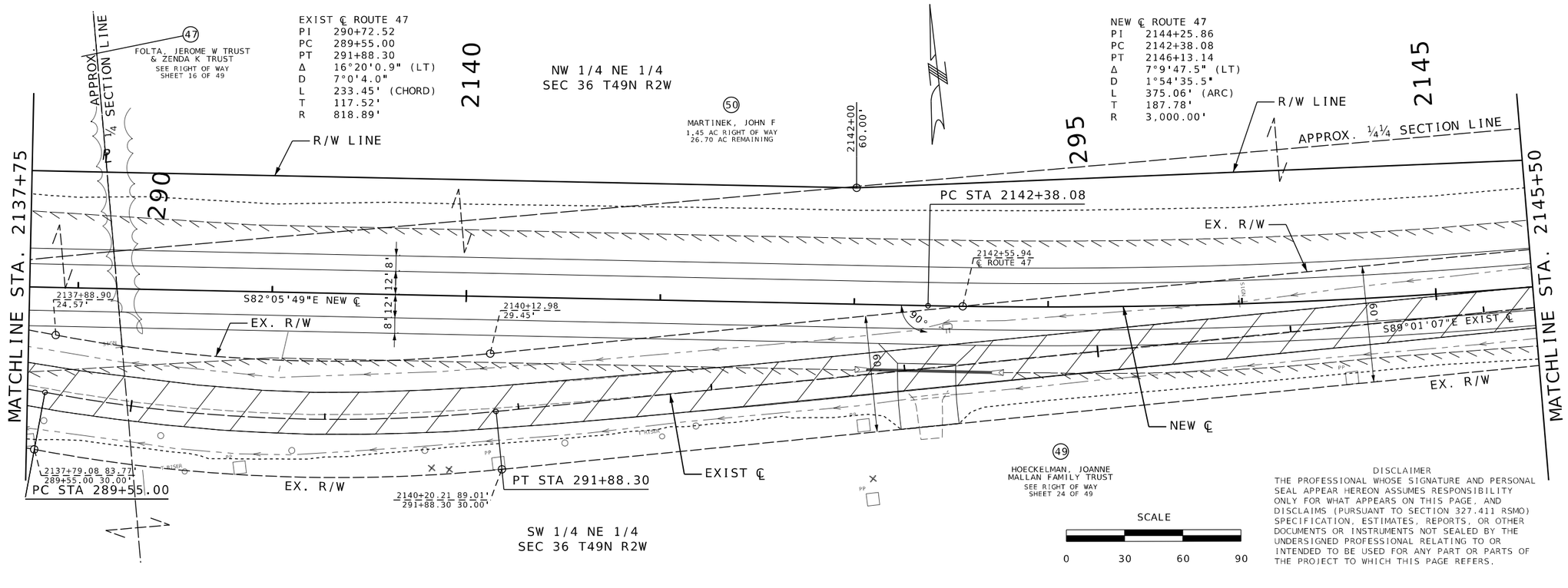

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SEE PLAN AND PROFILE SHEETS
FOR CONSTRUCTION DETAILS

RIGHT OF WAY PLAN
SHEET 19 OF 49

STATE OF MISSOURI
PROFESSIONAL ENGINEER
MARGARET ANN BRUNS
NUMBER PE-2010000798

7/29/2025 7:25:06 PM
Margaret Ann Bruns - Civil
MO PE-2010000798

DATE PREPARED
7/29/2025

ROUTE	STATE
47	MO
DISTRICT	SHEET NO.
NE	69

COUNTY
LINCOLN

JOB NO.
JNE0003

CONTRACT ID.
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PROJECT NO.
.

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

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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

EFK•Moen
Civil Engineering Design
13523 Barrett Parkway Dr
Suite 250
St. Louis, MO 63021
Phone 314-394-3100
Fax 314-394-3199
Missouri Certificate of Authority: 001578

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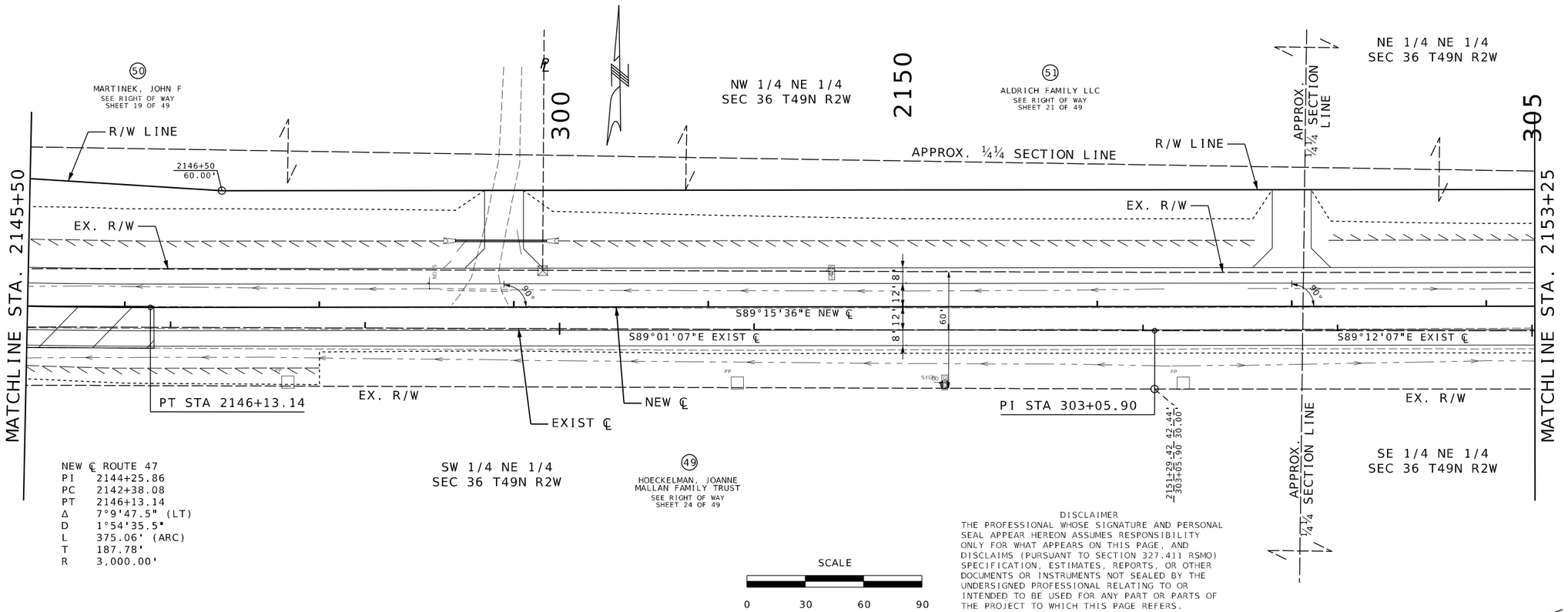

NEW ℄ ROUTE 47
PI 2144+25.86
PC 2142+38.08
PT 2146+13.14
Δ 7°9'47.5" (LT)
D 1°54'35.5"
L 375.06' (ARC)
T 187.78'
R 3,000.00'

DISCLAIMER
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SEE PLAN AND PROFILE SHEETS
FOR CONSTRUCTION DETAILS

RIGHT OF WAY PLAN
SHEET 20 OF 49

STATE OF MISSOURI
MARGARET ANN BRUNS
NUMBER PE-2010000798
PROFESSIONAL ENGINEER
7/29/2025 7:25:07 PM
Margaret Ann Bruns - Civil
MO PE-2010000798

DATE PREPARED
7/29/2025

ROUTE	STATE
47	MO
DISTRICT	SHEET NO.
NE	70

COUNTY
LINCOLN

JOB NO.
JNE0003

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

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

EFK•Moen
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13523 Barrett Parkway Dr
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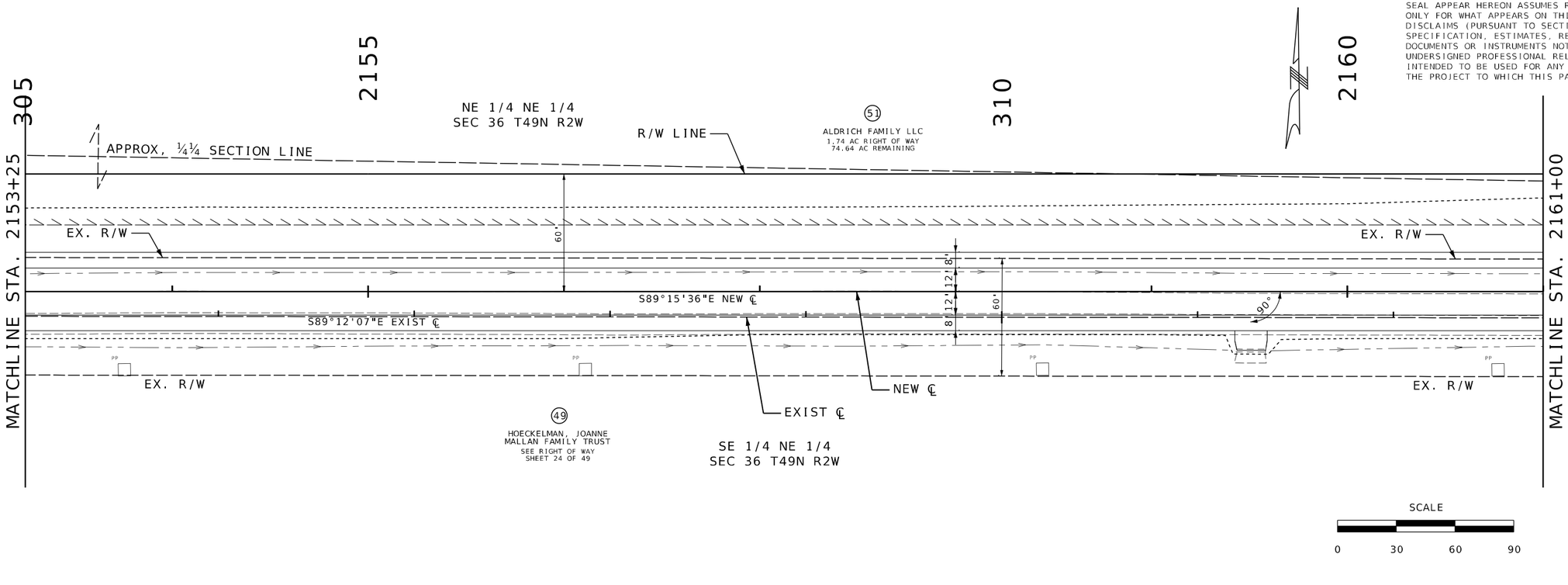

SCALE

0 30 60 90

SEE PLAN AND PROFILE SHEETS
FOR CONSTRUCTION DETAILS

RIGHT OF WAY PLAN
SHEET 21 OF 49

STATE OF MISSOURI
MARGARET ANN BRUNS
NUMBER PE-2010000798
PROFESSIONAL ENGINEER
7/29/2025 7:25:07 PM
Margaret Ann Bruns - Civil
MO PE-2010000798

DATE PREPARED
7/29/2025

ROUTE	STATE
47	MO
DISTRICT	SHEET NO.
NE	71

COUNTY
LINCOLN

JOB NO.
JNE0003

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

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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

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Civil Engineering Design
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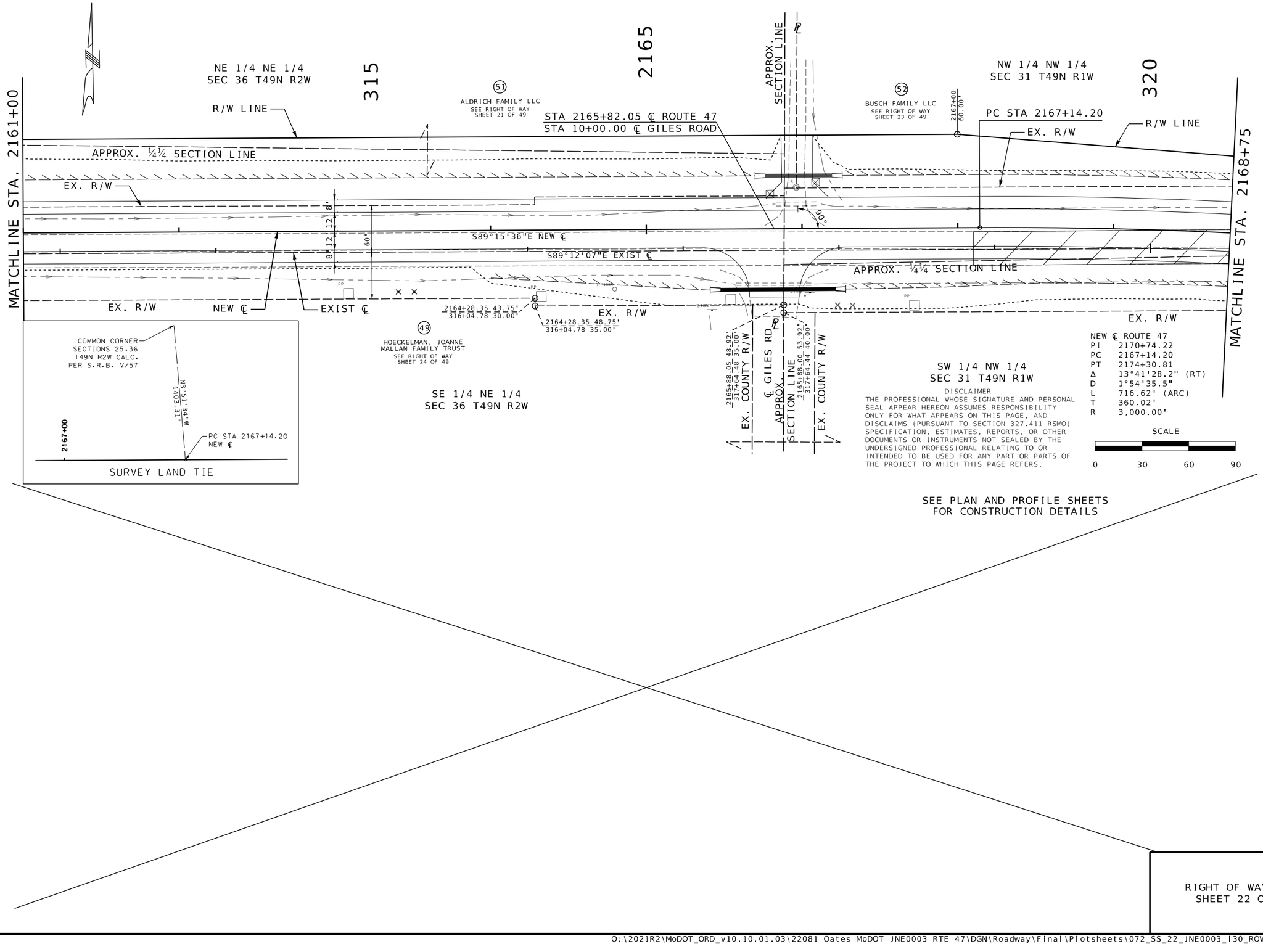

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SEE PLAN AND PROFILE SHEETS
FOR CONSTRUCTION DETAILS

RIGHT OF WAY PLAN
SHEET 22 OF 49

STATE OF MISSOURI
PROFESSIONAL ENGINEER
MARGARET ANN BRUNS
NUMBER PE-2010000798
7/29/2025 7:25:07 PM
Margaret Ann Bruns - Civil
MO PE-2010000798

DATE PREPARED
7/29/2025

ROUTE	STATE
47	MO
DISTRICT	SHEET NO.
NE	7.2

COUNTY
LINCOLN

JOB NO.
JNE0003

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

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

EFK•Moen
Civil Engineering Design
13523 Barrett Parkway Dr
Suite 250
St Louis, MO 63021
Phone 314-394-3100
Fax 314-394-3199
Missouri Certificate of Authority: 001578

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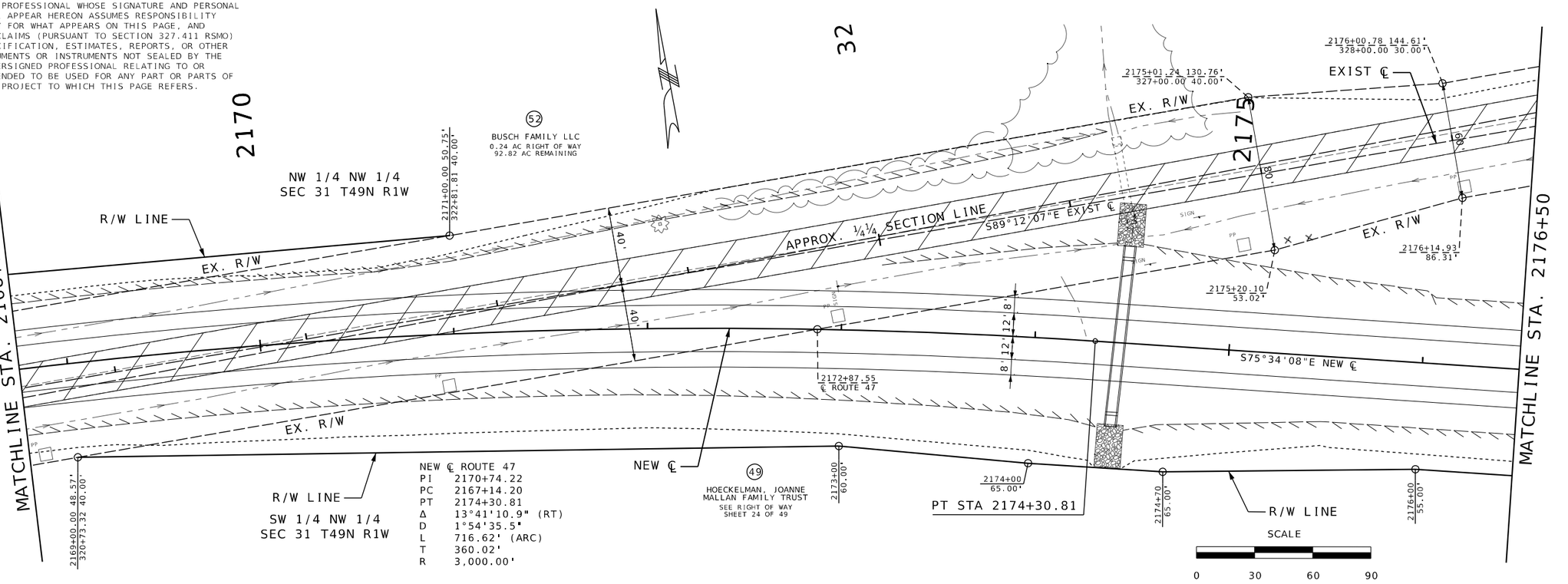

SEE PLAN AND PROFILE SHEETS
FOR CONSTRUCTION DETAILS

RIGHT OF WAY PLAN
SHEET 23 OF 49

STATE OF MISSOURI
PROFESSIONAL ENGINEER
MARGARET ANN BRUNS
NUMBER PE-2010000798

7/29/2025 7:25:07 PM
Margaret Ann Bruns - Civil
MO PE-2010000798

DATE PREPARED
7/29/2025

ROUTE	STATE
47	MO
DISTRICT	SHEET NO.
NE	73

COUNTY
LINCOLN

JOB NO.
JNE0003

CONTRACT ID.
.

PROJECT NO.
.

BRIDGE NO.
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IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

DATE	DESCRIPTION
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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)

EFK•Moen
Civil Engineering Design
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Suite 250
St. Louis, MO 63021
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NW 1/4 NW 1/4
SEC 31 T49N R1W

LOCKHART-MOYER
LIVING TRUST
NO ACQUISITION

2181+20.79 336.64'
333+17.35 123.36'

2181+90.79 336.99'
333+74.27 130.90'

EX. R/W

330

335

2180

(52) BUSCH FAMILY LLC
SEE RIGHT OF WAY SHEET 23 OF 49

2179+41.50 227.25'
331+50.60 30.00'

PC STA 331+50.60

EXIST ℄

APPROX. 1/4 SECTION LINE

S89°12'07"E EXIST ℄

2179+55.65
168.94'

(49) HOECKELMAN, JOANNE
MALLAN FAMILY TRUST
SEE BELOW

2183+99.92 158.33'
336+01.00 32.95'

2184+00.92 154.26'
336+03.82 30.00'

2184+15.82 144.75'
336+20.60 30.00'

S41°12'03"E EXIST ℄

2183+82.82
94.64'

PT STA 336+20.60

(53)
SEE RIGHT OF WAY SHEET 26 OF 49

MATCHLINE STA. 2176+50

MATCHLINE STA. 2184+25

2' 12' 12' 2'

℄ ROUTE AA
S14°25'52"W

EXIST ℄ ROUTE 47
PI 334+00.05
PC 331+50.60
PT 336+20.60
Δ 47°0'0.0" (RT)
D 10°0'0.0"
L 470.60' (CHORD)
T 249.45'
R 573.69'

STA 2181+55.08 ℄ ROUTE 47
STA 10+00.00 ℄ ROUTE AA

NEW ℄

S75°34'08"E NEW ℄

90°

65°38'18"

8' 12' 12' 8'

4' 12' 12' 4'

55'

(49) HOECKELMAN, JOANNE
MALLAN FAMILY TRUST
0 AC RIGHT OF WAY LEFT
4.74 AC RIGHT OF WAY RIGHT
0.22 AC REMAINING LEFT
224.18 AC REMAINING RIGHT

R/W LINE

SW 1/4 NW 1/4
SEC 31 T49N R1W

SEE PLAN AND PROFILE SHEETS
FOR CONSTRUCTION DETAILS

SCALE
0 30 60 90

RIGHT OF WAY PLAN
SHEET 24 OF 49

STATE OF MISSOURI
PROFESSIONAL ENGINEER
MARGARET ANN BRUNS
NUMBER PE-2010000798

7/29/2025 7:25:07 PM
Margaret Ann Bruns - Civil
MO PE-2010000798

DATE PREPARED
7/29/2025

ROUTE	STATE
47	MO
DISTRICT	SHEET NO.
NE	74

COUNTY
LINCOLN

JOB NO.
JNE0003

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

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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

EFK·Moen
Civil Engineering Design
13523 Barrett Parkway Dr
Suite 250
St Louis, MO 63021
Phone 314-394-3100
Fax 314-394-3199
Missouri Certificate of Authority: 001578

SEE PLAN AND PROFILE SHEETS
FOR CONSTRUCTION DETAILS

RIGHT OF WAY PROFILE
SHEET 25 OF 49

STATE OF MISSOURI
MARGARET ANN BRUNS
NUMBER PE-2010000798
PROFESSIONAL ENGINEER

7/29/2025 7:25:07 PM
Margaret Ann Bruns - Civil
MO PE-2010000798

DATE PREPARED
7/29/2025

ROUTE	STATE
47	MO
DISTRICT	SHEET NO.
NE	75

COUNTY
LINCOLN

JOB NO.
JNE0003

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

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

MoDOT

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

EFK•Moen
Civil Engineering Design
13523 Barrett Parkway Dr
Suite 250
St. Louis, MO 63021
Phone 314-394-3100
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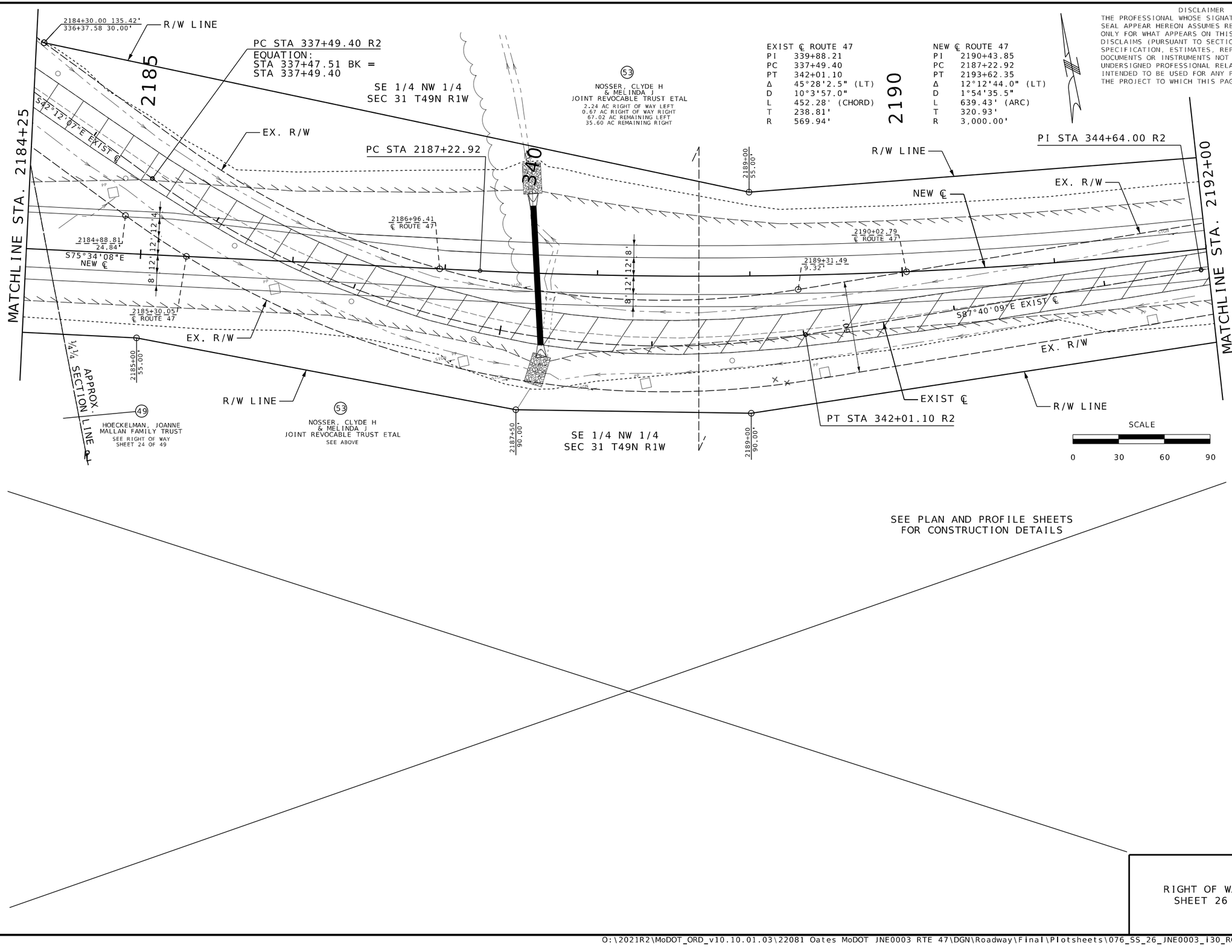
Missouri Certificate of Authority: 001578



SEE PLAN AND PROFILE SHEETS
FOR CONSTRUCTION DETAILS

RIGHT OF WAY PLAN
SHEET 26 OF 49

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STATE OF MISSOURI
MARGARET ANN BRUNS
NUMBER PE-2010000798
PROFESSIONAL ENGINEER

7/29/2025 7:25:08 PM
Margaret Ann Bruns - Civil
MO PE-2010000798

DATE PREPARED
7/29/2025

ROUTE	STATE
47	MO
DISTRICT	SHEET NO.
NE	76

COUNTY
LINCOLN

JOB NO.
JNE0003

CONTRACT ID.
.

PROJECT NO.
.

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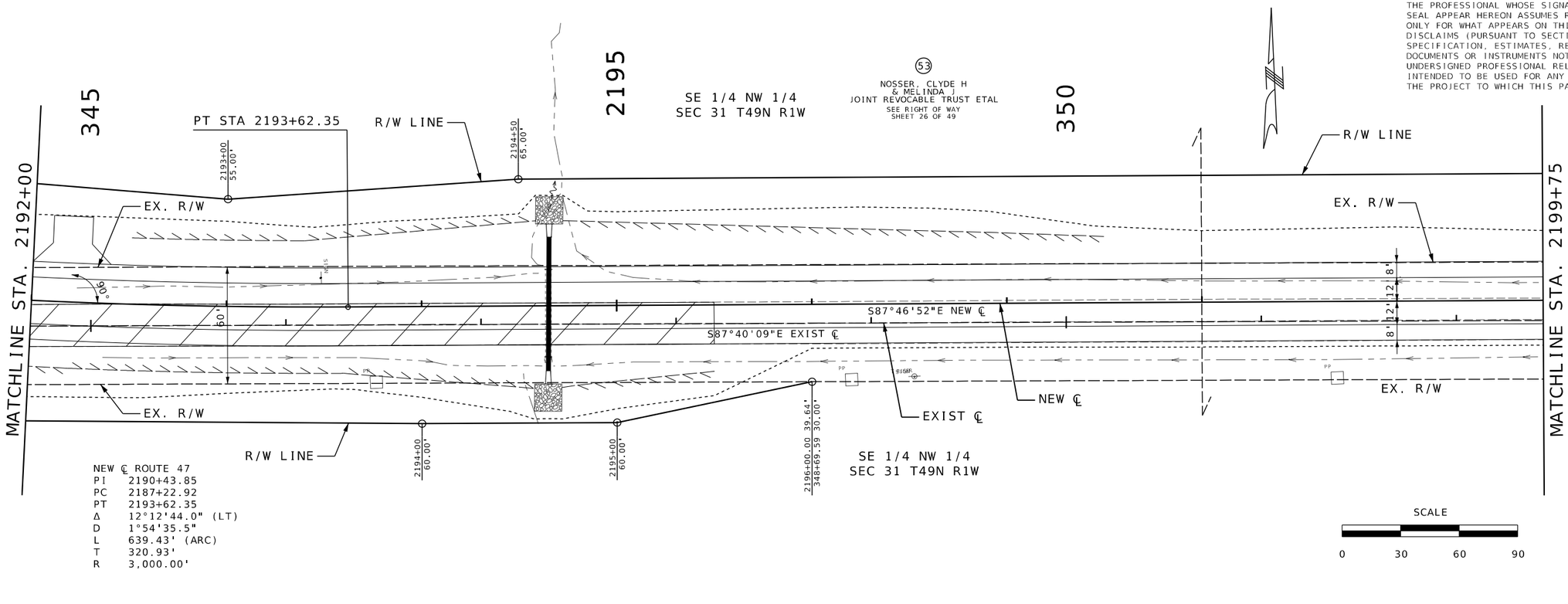
IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

MoDOT

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

EFK•Moen
Civil Engineering Design
13523 Barrett Parkway Dr
Suite 250
St. Louis, MO 63021
Phone 314-394-3100
Fax 314-394-3199
Missouri Certificate of Authority: 001578



NEW ℄ ROUTE 47
PI 2190+43.85
PC 2187+22.92
PT 2193+62.35
Δ 12°12'44.0" (LT)
D 1°54'35.5"
L 639.43' (ARC)
T 320.93'
R 3,000.00'

SEE PLAN AND PROFILE SHEETS
FOR CONSTRUCTION DETAILS

RIGHT OF WAY PLAN
SHEET 27 OF 49

DISCLAIMER
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STATE OF MISSOURI
MARGARET ANN BRUNS
NUMBER PE-2010000798
PROFESSIONAL ENGINEER
7/29/2025 7:25:08 PM
Margaret Ann Bruns - Civil
MO PE-2010000798

DATE PREPARED
7/29/2025

ROUTE	STATE
47	MO
DISTRICT	SHEET NO.
NE	77

COUNTY
LINCOLN

JOB NO.
JNE0003

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

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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JEFFERSON CITY, MO 65102
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St. Louis, MO 63021
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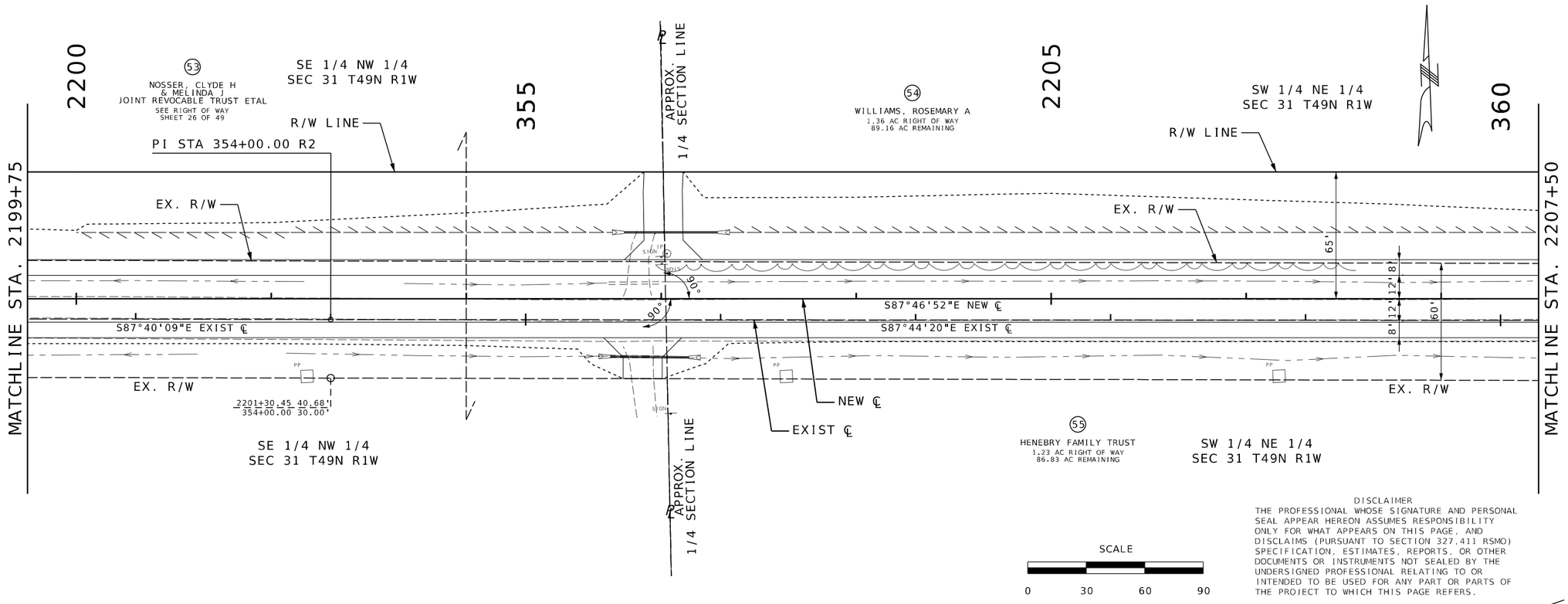
Fax 314-394-3199
Missouri Certificate of Authority: 001578



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SEE PLAN AND PROFILE SHEETS FOR CONSTRUCTION DETAILS

RIGHT OF WAY PLAN
SHEET 28 OF 49

STATE OF MISSOURI
PROFESSIONAL ENGINEER
MARGARET ANN BRUNS
NUMBER PE-2010000798
7/29/2025 7:25:08 PM
Margaret Ann Bruns - Civil
MO PE-2010000798

DATE PREPARED
7/29/2025

ROUTE	STATE
47	MO
DISTRICT	SHEET NO.
NE	78

COUNTY
LINCOLN

JOB NO.
JNE0003

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

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
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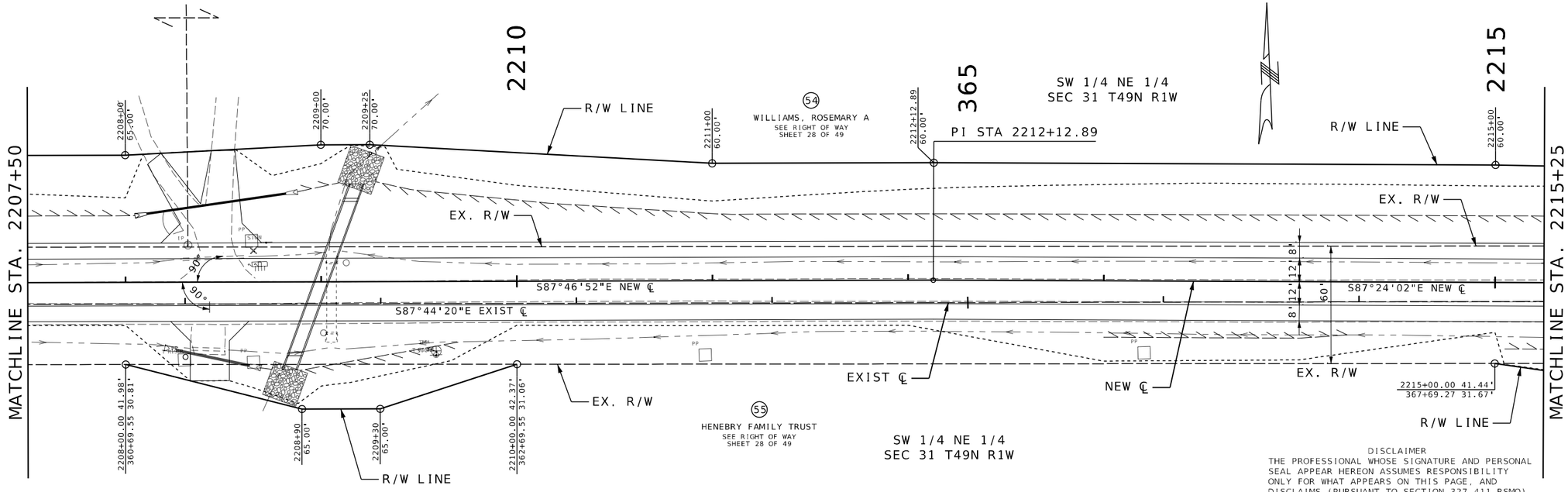

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SEE PLAN AND PROFILE SHEETS
FOR CONSTRUCTION DETAILS

RIGHT OF WAY PLAN
SHEET 29 OF 49

STATE OF MISSOURI
MARGARET ANN BRUNS
NUMBER PE-2010000798
PROFESSIONAL ENGINEER
7/29/2025 7:25:08 PM
Margaret Ann Bruns - Civil
MO PE-2010000798

DATE PREPARED
7/29/2025

ROUTE	STATE
47	MO
DISTRICT	SHEET NO.
NE	29

COUNTY
LINCOLN

JOB NO.
JNE0003

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

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

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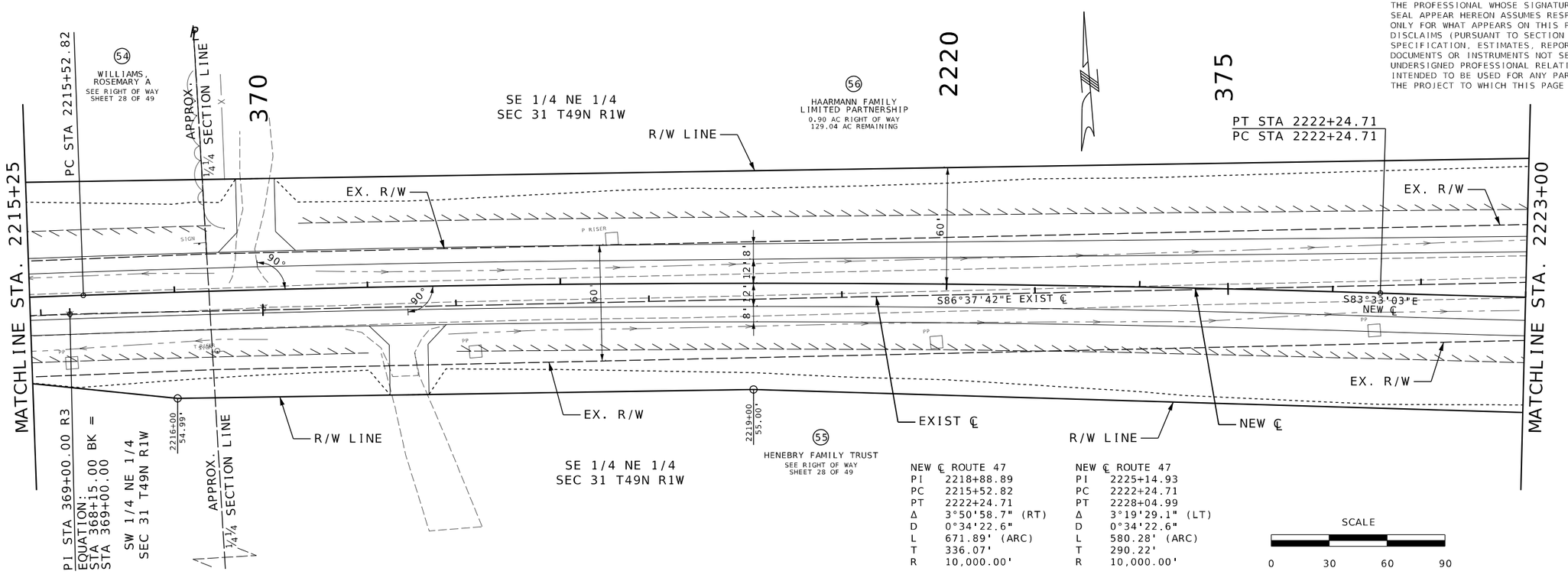

NEW ℄ ROUTE 47	
PI	2218+88.89
PC	2215+52.82
PT	2222+24.71
Δ	3°50'58.7" (RT)
D	0°34'22.6"
L	671.89' (ARC)
T	336.07'
R	10,000.00'

NEW ℄ ROUTE 47	
PI	2225+14.93
PC	2222+24.71
PT	2228+04.99
Δ	3°19'29.1" (LT)
D	0°34'22.6"
L	580.28' (ARC)
T	290.22'
R	10,000.00'

SCALE
0 30 60 90

SEE PLAN AND PROFILE SHEETS
FOR CONSTRUCTION DETAILS

RIGHT OF WAY PLAN
SHEET 30 OF 49

STATE OF MISSOURI
MARGARET ANN BRUNS NUMBER PE-2010000798
PROFESSIONAL ENGINEER
7/29/2025 7:25:08 PM
Margaret Ann Bruns - Civil
MO PE-2010000798

DATE PREPARED
7/29/2025

ROUTE	STATE
47	MO
DISTRICT	SHEET NO.
NE	80

COUNTY
LINCOLN

JOB NO.
JNE0003

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

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

105 WEST CAPITOL
JEFFERSON CITY, MO 65102
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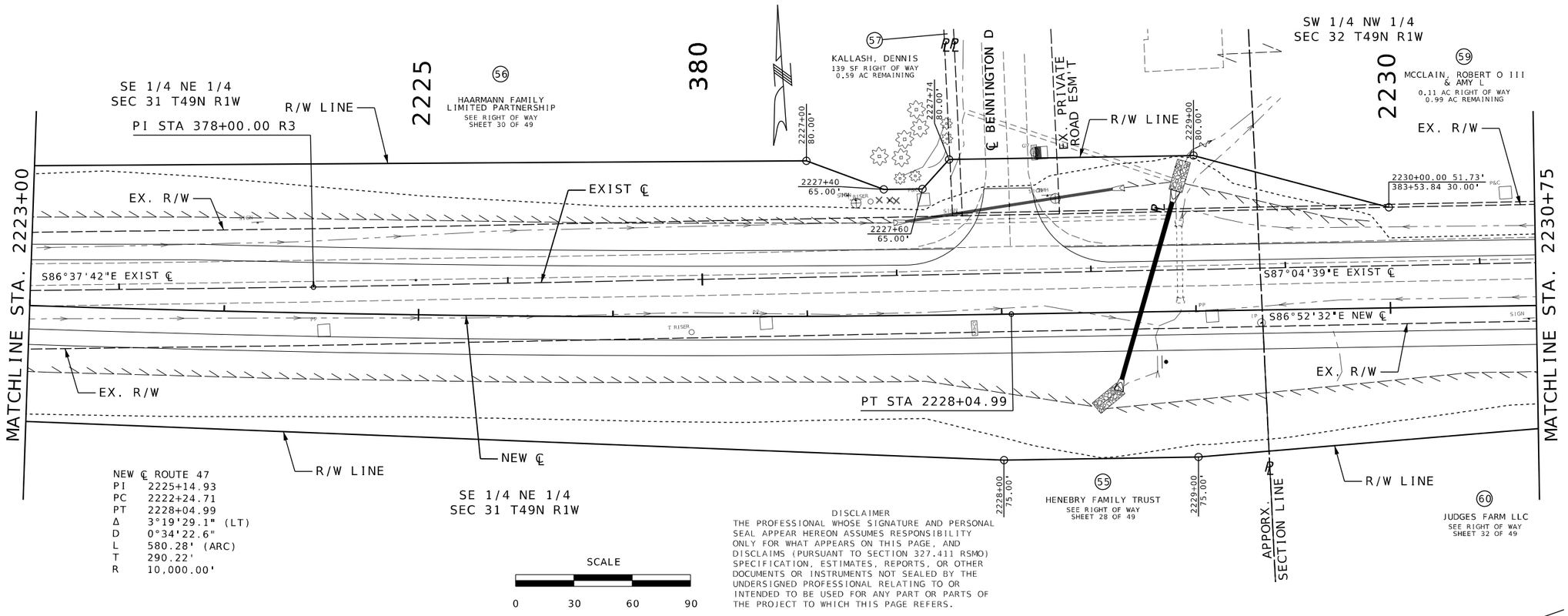

NEW ℄ ROUTE 47
PI 2225+14.93
PC 2222+24.71
PT 2228+04.99
Δ 3°19'29.1" (LT)
D 0°34'22.6"
L 580.28' (ARC)
T 290.22'
R 10,000.00'

DISCLAIMER
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SEE PLAN AND PROFILE SHEETS
FOR CONSTRUCTION DETAILS

RIGHT OF WAY PLAN
SHEET 31 OF 49

STATE OF MISSOURI
MARGARET ANN BRUNS
NUMBER PE-2010000798
PROFESSIONAL ENGINEER
7/29/2025 7:25:08 PM
Margaret Ann Bruns - Civil
MO PE-2010000798

DATE PREPARED
7/29/2025

ROUTE	STATE
47	MO
DISTRICT	SHEET NO.
NE	81

COUNTY
LINCOLN

JOB NO.
JNE0003

CONTRACT ID.
.

PROJECT NO.
.

BRIDGE NO.
.

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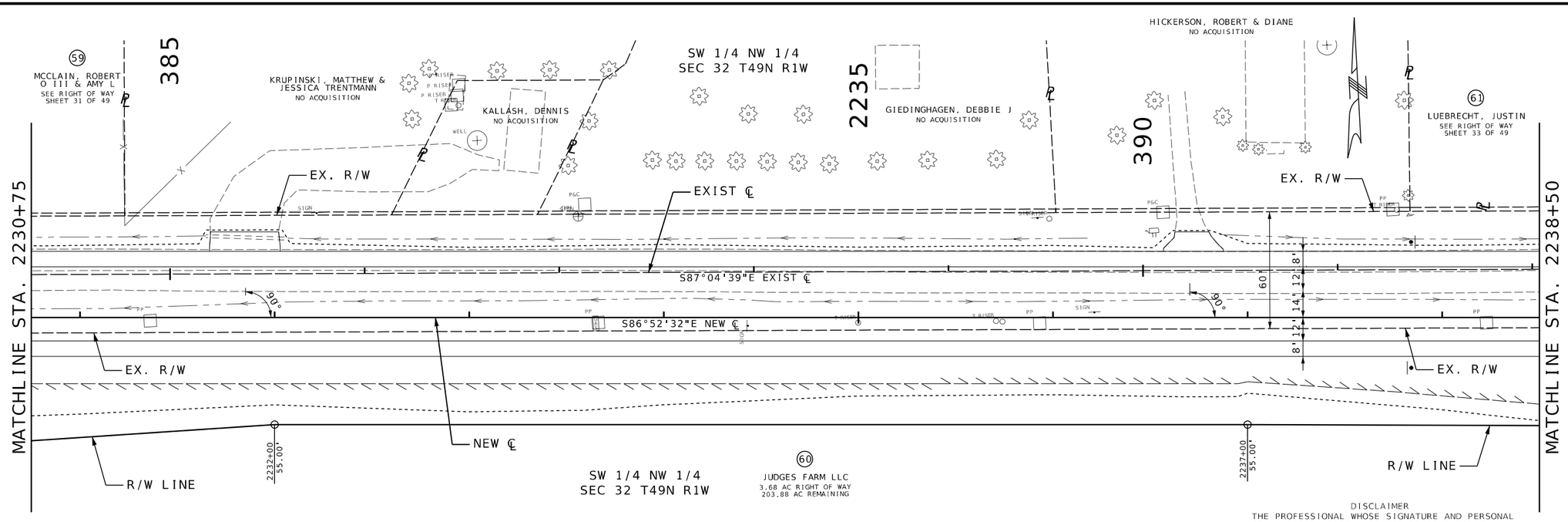
IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

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

EFK•Moen
Civil Engineering Design
13523 Barrett Parkway Dr
Suite 250
St. Louis, MO 63021
Phone 314-394-3100
Fax 314-394-3199
Missouri Certificate of Authority: 001578



SCALE

0 30 60 90

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SEE PLAN AND PROFILE SHEETS
FOR CONSTRUCTION DETAILS

RIGHT OF WAY PLAN
SHEET 32 OF 49

STATE OF MISSOURI
MARGARET ANN BRUNS
NUMBER PE-2010000798
PROFESSIONAL ENGINEER

7/29/2025 7:50:25 PM
Margaret Ann Bruns - Civil
MO PE-2010000798

DATE PREPARED
7/29/2025

ROUTE	STATE
47	MO
DISTRICT	SHEET NO.
NE	82

COUNTY
LINCOLN

JOB NO.
JNE0003

CONTRACT ID.
.

PROJECT NO.
.

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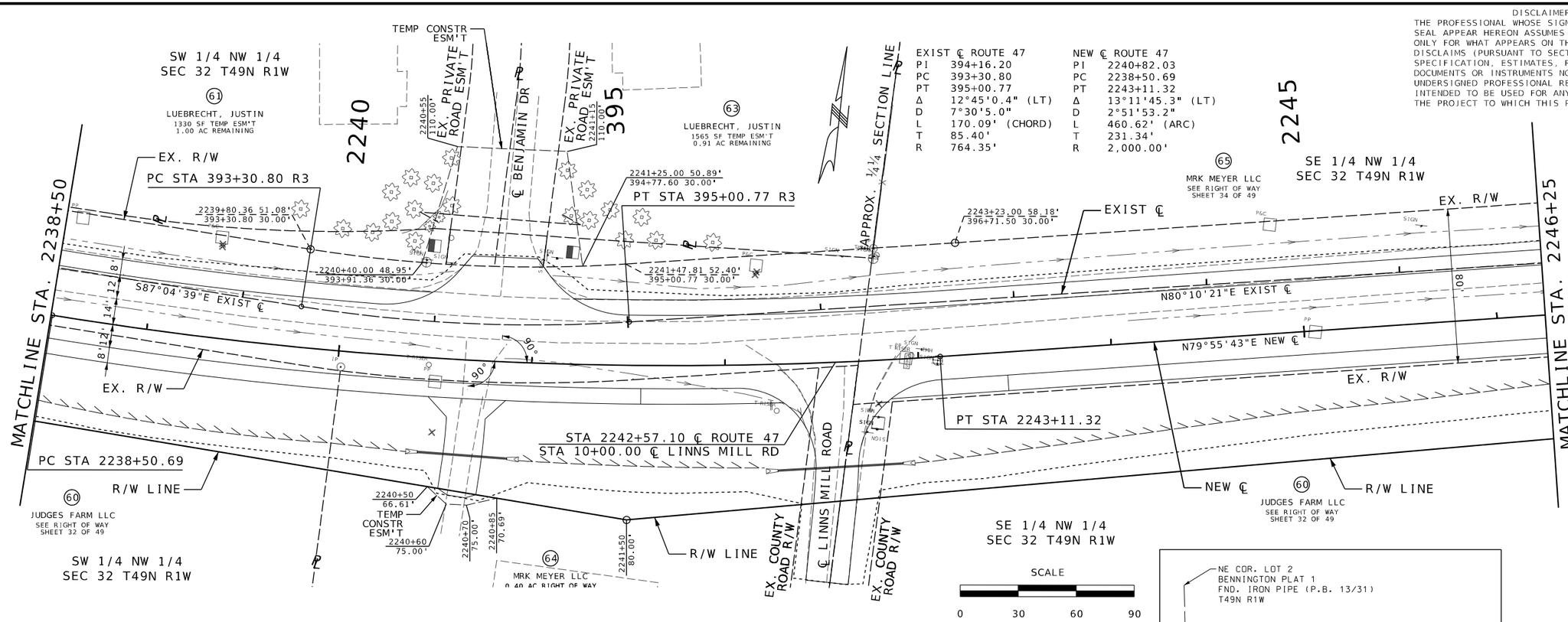
IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

MoDOT

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

EFK•Moen
Civil Engineering Design
13523 Barrett Parkway Dr
Suite 250
St. Louis, MO 63021
Phone 314-394-3100
Fax 314-394-3199
Missouri Certificate of Authority: 001578



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STATE OF MISSOURI
MARGARET ANN BRUNS
NUMBER PE-2010000798
PROFESSIONAL ENGINEER
7/29/2025 7:25:09 PM
Margaret Ann Bruns - Civil
MO PE-2010000798

DATE PREPARED
7/29/2025

ROUTE	STATE
47	MO
DISTRICT	SHEET NO.
NE	83

COUNTY
LINCOLN

JOB NO.
JNE0003

CONTRACT ID.
.

PROJECT NO.
.

BRIDGE NO.
.

DATE	DESCRIPTION
.	.

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

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

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Civil Engineering Design
13523 Barrett Parkway Dr
Suite 250
St Louis, MO 63021
Phone 314-394-3100
Fax 314-394-3199
Missouri Certificate of Authority: 001578

RIGHT OF WAY PLAN
SHEET 33 OF 49

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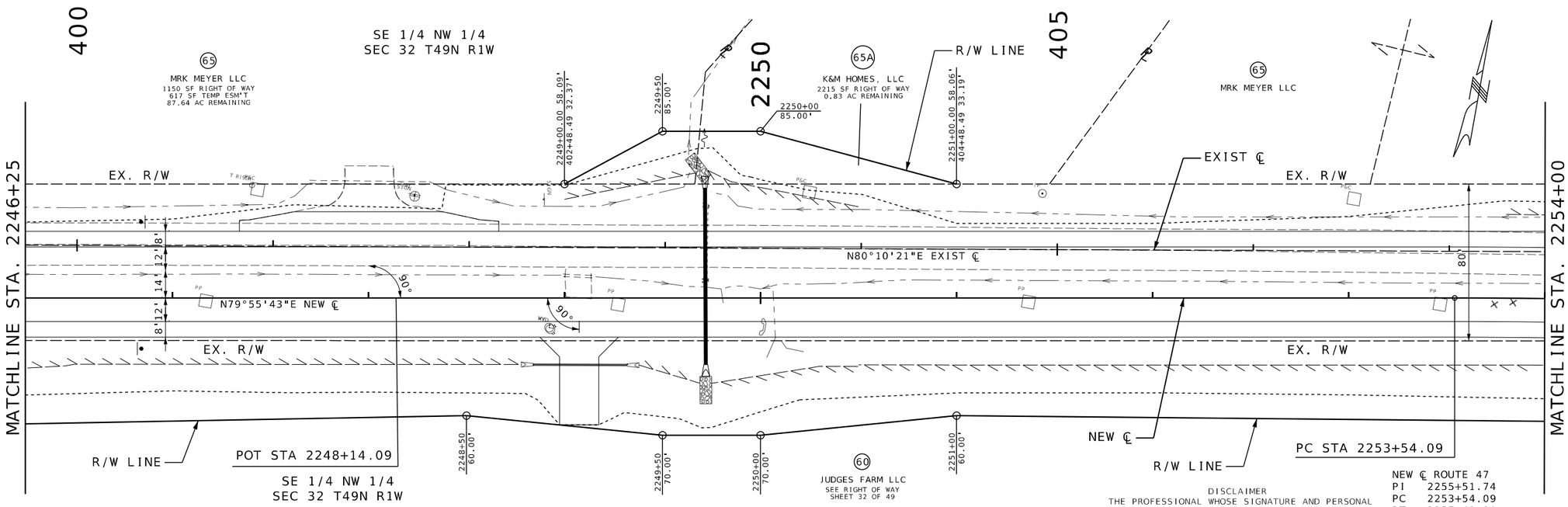

SCALE

0 30 60 90

DISCLAIMER

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NEW ℄ ROUTE 47

PI	2255+51.74
PC	2253+54.09
PT	2257+48.81
Δ	7°32'19.3" (RT)
D	1°54'35.5"
L	394.73' (ARC)
T	197.65'
R	3,000.00'

SEE PLAN AND PROFILE SHEETS
FOR CONSTRUCTION DETAILS

RIGHT OF WAY PLAN
SHEET 34 OF 49

STATE OF MISSOURI
MARGARET ANN BRUNS
NUMBER PE-2010000798
PROFESSIONAL ENGINEER

7/29/2025 7:50:43 PM
Margaret Ann Bruns - Civil
MO PE-2010000798

DATE PREPARED
7/29/2025

ROUTE	STATE
47	MO
DISTRICT	SHEET NO.
NE	84

COUNTY
LINCOLN

JOB NO.
JNE0003

CONTRACT ID.
.

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

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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

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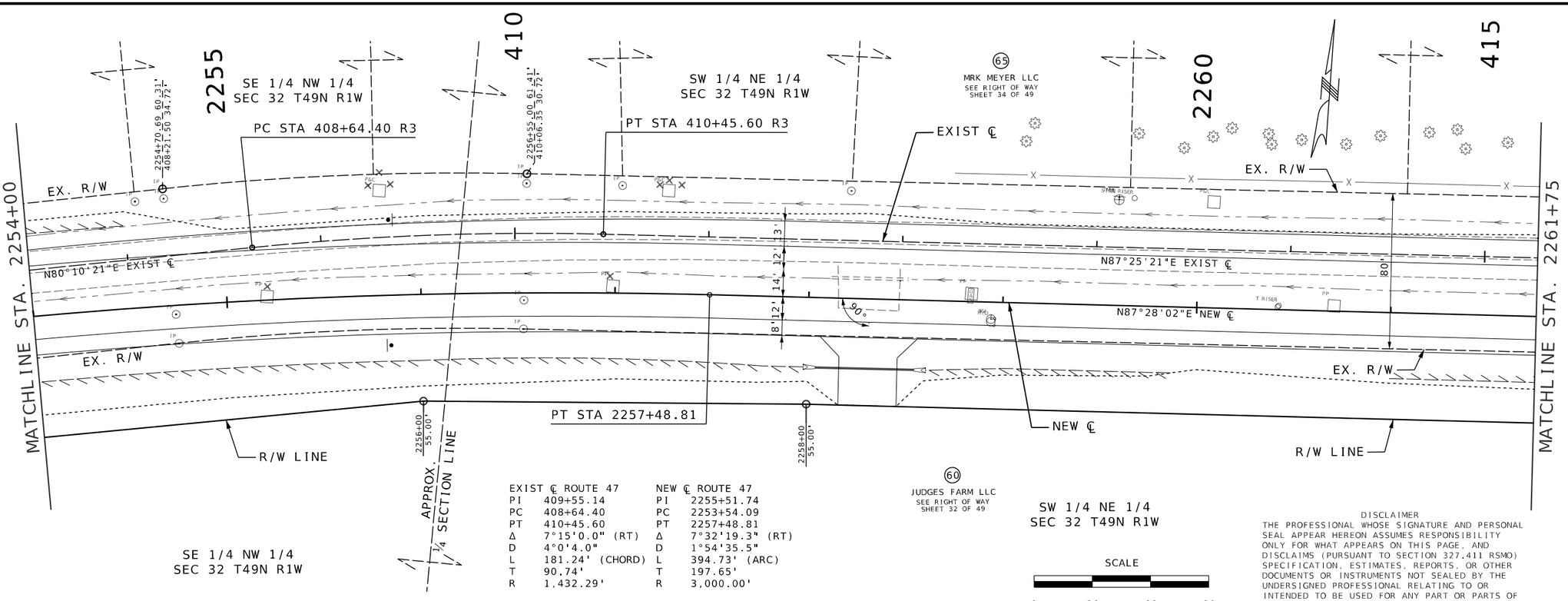
Civil Engineering Design
13523 Barrett Parkway Dr
Suite 250
St Louis, MO 63021
Phone 314-394-3100
Fax 314-394-3199
Missouri Certificate of Authority: 001578



EXIST ℄ ROUTE 47		NEW ℄ ROUTE 47	
PI	409+55.14	PI	2255+51.74
PC	408+64.40	PC	2253+54.09
PT	410+45.60	PT	2257+48.81
Δ	7°15'0.0" (RT)	Δ	7°32'19.3" (RT)
D	4°0'4.0"	D	1°54'35.5"
L	181.24' (CHORD)	L	394.73' (ARC)
T	90.74'	T	197.65'
R	1,432.29'	R	3,000.00'

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

SEE PLAN AND PROFILE SHEETS
FOR CONSTRUCTION DETAILS

RIGHT OF WAY PLAN
SHEET 35 OF 49

STATE OF MISSOURI
MARGARET ANN BRUNS
NUMBER PE-2010000798
PROFESSIONAL ENGINEER

7/29/2025 7:25:09 PM
Margaret Ann Bruns - Civil
MO PE-2010000798

DATE PREPARED
7/29/2025

ROUTE	STATE
47	MO
DISTRICT	SHEET NO.
NE	85

COUNTY
LINCOLN

JOB NO.
JNE0003

CONTRACT ID.
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PROJECT NO.
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BRIDGE NO.
.

DATE	DESCRIPTION
.	.

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

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

EFK•Moen
Civil Engineering Design
13523 Barrett Parkway Dr
Suite 250
St Louis, MO 63021
Phone 314-394-3100
Fax 314-394-3199
Missouri Certificate of Authority: 001578

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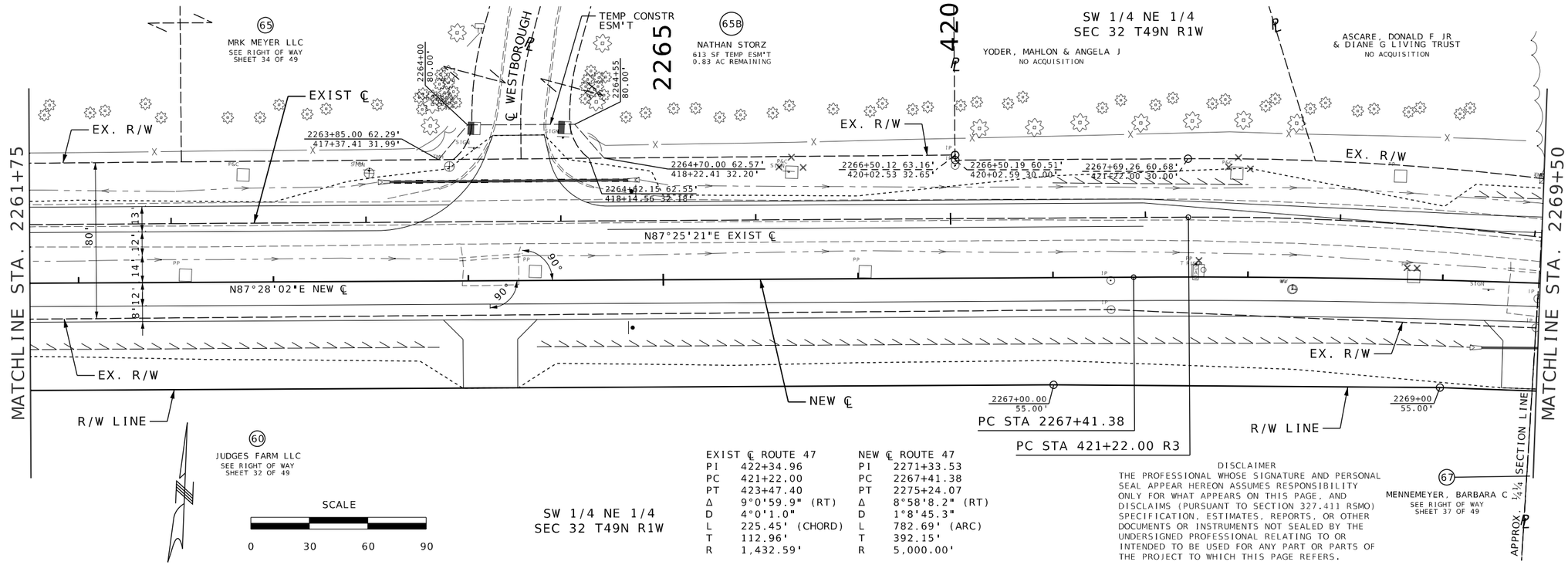

SW 1/4 NE 1/4
SEC 32 T49N R1W

EXIST ℄ ROUTE 47		NEW ℄ ROUTE 47	
PI	422+34.96	PI	2271+33.53
PC	421+22.00	PC	2267+41.38
PT	423+47.40	PT	2275+24.07
Δ	9°0'59.9" (RT)	Δ	8°58'8.2" (RT)
D	4°0'1.0"	D	1°8'45.3"
L	225.45' (CHORD)	L	782.69' (ARC)
T	112.96'	T	392.15'
R	1,432.59'	R	5,000.00'

DISCLAIMER
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SEE PLAN AND PROFILE SHEETS
FOR CONSTRUCTION DETAILS

RIGHT OF WAY PLAN
SHEET 36 OF 49

STATE OF MISSOURI
MARGARET ANN BRUNS
NUMBER PE-2010000798
PROFESSIONAL ENGINEER
7/29/2025 7:25:09 PM
Margaret Ann Bruns - Civil
MO PE-2010000798

DATE PREPARED
7/29/2025

ROUTE	STATE
47	MO
DISTRICT	SHEET NO.
NE	86

COUNTY
LINCOLN

JOB NO.
JNE0003

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DESCRIPTION	DATE

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

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

105 WEST CAPITOL
JEFFERSON CITY, MO 65102
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Civil Engineering Design
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Suite 250
St. Louis, MO 63021
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Fax 314-394-3199
Missouri Certificate of Authority: 001578

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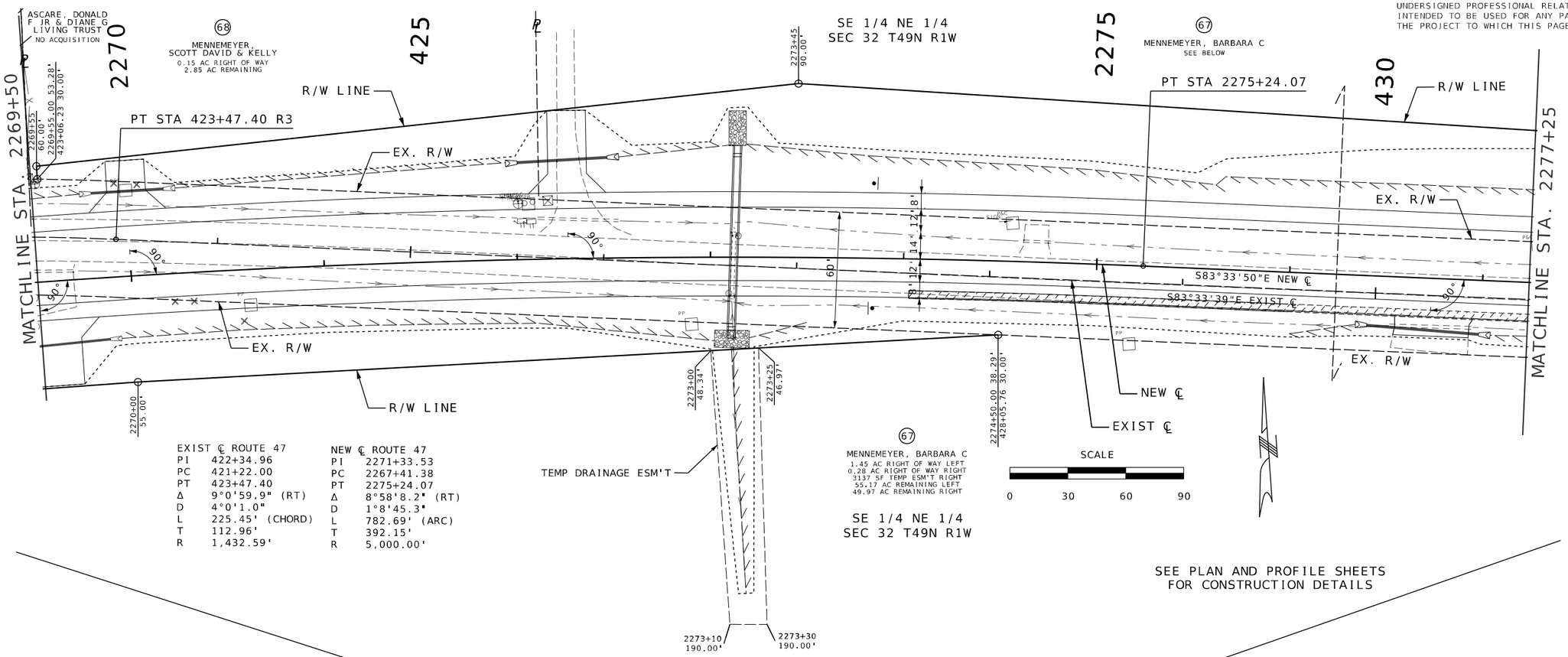

EXIST ℄ ROUTE 47		NEW ℄ ROUTE 47	
PI	422+34.96	PI	2271+33.53
PC	421+22.00	PC	2267+41.38
PT	423+47.40	PT	2275+24.07
Δ	9°0'59.9" (RT)	Δ	8°58'8.2" (RT)
D	4°0'1.0"	D	1°8'45.3"
L	225.45' (CHORD)	L	782.69' (ARC)
T	112.96'	T	392.15'
R	1,432.59'	R	5,000.00'

67
MENNEMEYER, BARBARA C
1.45 AC RIGHT OF WAY LEFT
0.28 AC RIGHT OF WAY RIGHT
3137 SF TEMP. ESM'T RIGHT
55.17 AC REMAINING LEFT
49.97 AC REMAINING RIGHT

SE 1/4 NE 1/4
SEC 32 T49N R1W

SEE PLAN AND PROFILE SHEETS
FOR CONSTRUCTION DETAILS

RIGHT OF WAY PLAN
SHEET 37 OF 49

STATE OF MISSOURI
PROFESSIONAL ENGINEER
MARGARET ANN BRUNS
NUMBER PE-2010000798
7/29/2025 7:57:36 PM
Margaret Ann Bruns - Civil
MO PE-2010000798

DATE PREPARED
7/29/2025

ROUTE	STATE
47	MO
DISTRICT	SHEET NO.
NE	87

COUNTY
LINCOLN

JOB NO.
JNE0003

CONTRACT ID.
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PROJECT NO.
.

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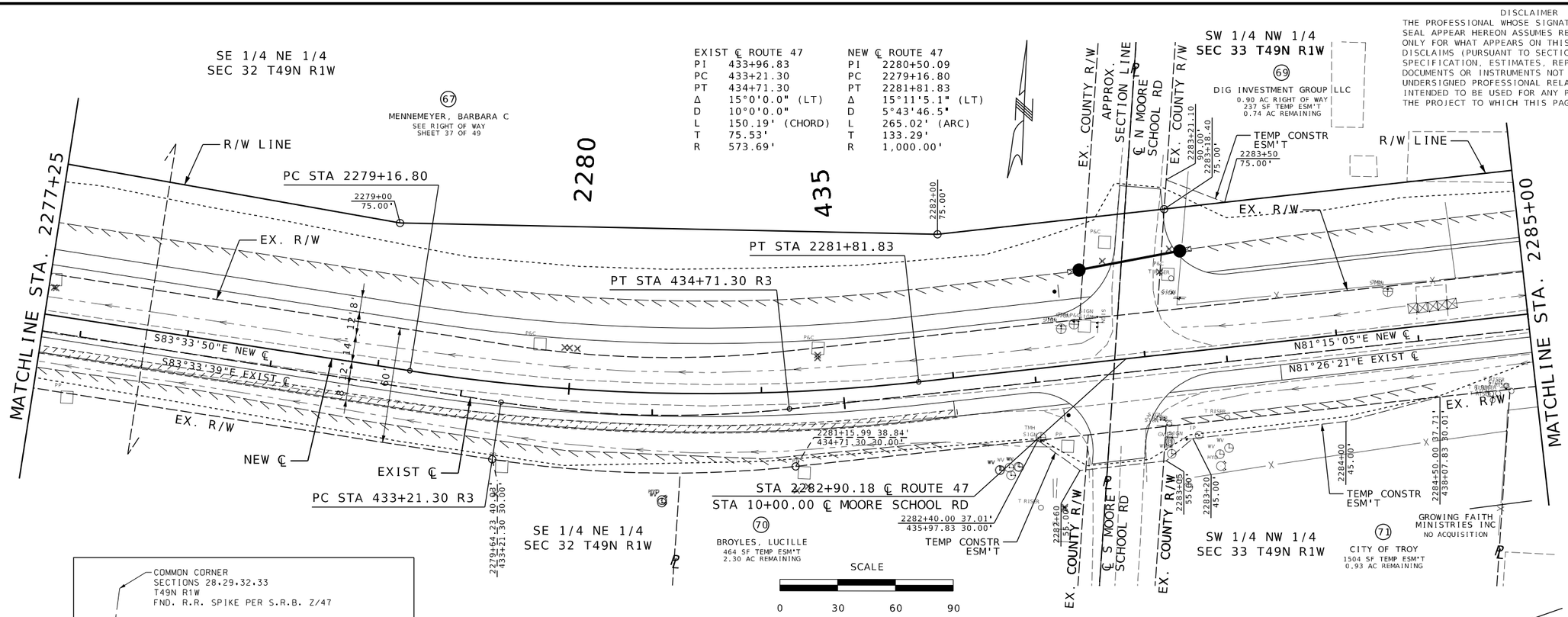
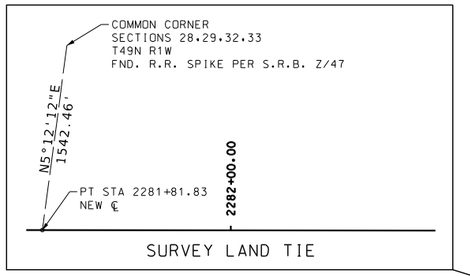
IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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

EFK•Moen
Civil Engineering Design
13523 Barrett Parkway Dr
Suite 250
St. Louis, MO 63021
Phone 314-394-3100
Fax 314-394-3199
Missouri Certificate of Authority: 001578





SURVEY LAND TIE

RIGHT OF WAY PLAN
SHEET 38 OF 49

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

STATE OF MISSOURI
MARGARET ANN BRUNS
NUMBER PE-2010000798
PROFESSIONAL ENGINEER
7/29/2025 7:57:46 PM
Margaret Ann Bruns - Civil
MO PE-2010000798

DATE PREPARED
7/29/2025

ROUTE	STATE
47	MO
DISTRICT	SHEET NO.
NE	88

COUNTY
LINCOLN

JOB NO.
JNE0003

CONTRACT ID.
.

PROJECT NO.
.

BRIDGE NO.
.

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

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

EFK•Moen
Civil Engineering Design
13523 Barrett Parkway Dr
Suite 250
St Louis, MO 63021
Phone 314-394-3100
Fax 314-394-3199
Missouri Certificate of Authority: 001578

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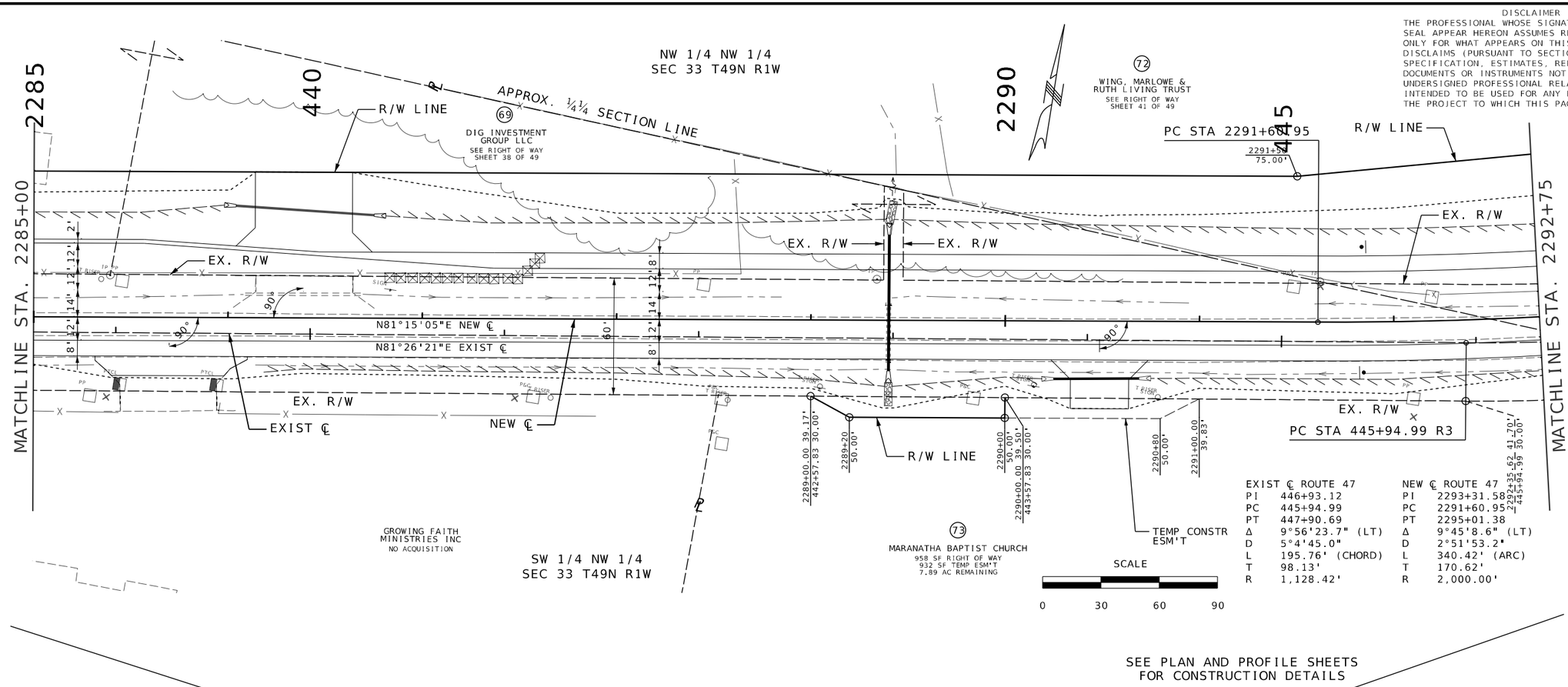

EXIST ℄ ROUTE 47		NEW ℄ ROUTE 47	
PI	446+93.12	PI	2293+31.58
PC	445+94.99	PC	2291+60.95
PT	447+90.69	PT	2295+01.38
Δ	9°56'23.7" (LT)	Δ	9°45'8.6" (LT)
D	5°4'45.0"	D	2°51'53.2"
L	195.76' (CHORD)	L	340.42' (ARC)
T	98.13'	T	170.62'
R	1,128.42'	R	2,000.00'

SEE PLAN AND PROFILE SHEETS
FOR CONSTRUCTION DETAILS

RIGHT OF WAY PLAN
SHEET 39 OF 49

STATE OF MISSOURI
MARGARET ANN BRUNS
NUMBER PE-2010000798
PROFESSIONAL ENGINEER
7/29/2025 7:57:46 PM
Margaret Ann Bruns - Civil
MO PE-2010000798

DATE PREPARED
7/29/2025

ROUTE	STATE
47	MO
DISTRICT	SHEET NO.
NE	89

COUNTY
LINCOLN

JOB NO.
JNE0003

CONTRACT ID.
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PROJECT NO.
.

BRIDGE NO.
.

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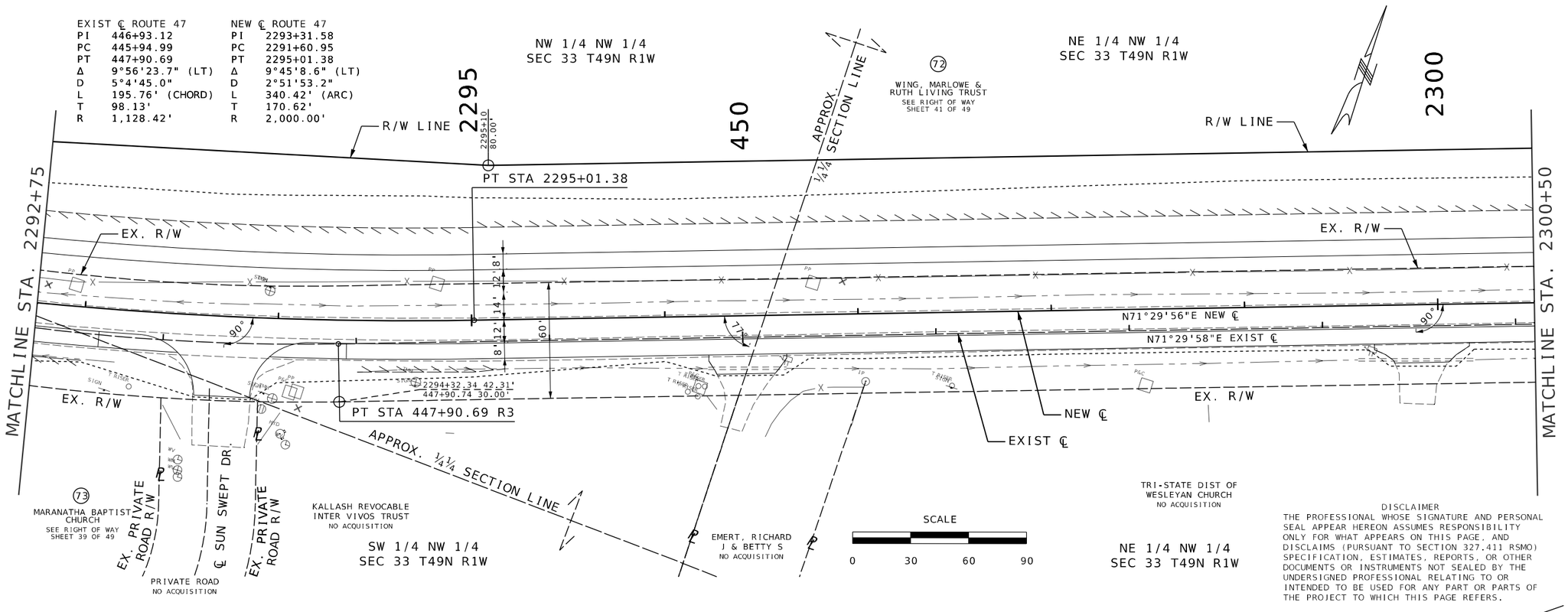
IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

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

EFK•Moen
Civil Engineering Design
13523 Barrett Parkway Dr
Suite 250
St Louis, MO 63021
Phone 314-394-3100
Fax 314-394-3199
Missouri Certificate of Authority: 001578

EXIST ℄ ROUTE 47		NEW ℄ ROUTE 47	
PI	446+93.12	PI	2293+31.58
PC	445+94.99	PC	2291+60.95
PT	447+90.69	PT	2295+01.38
Δ	9°56'23.7" (LT)	Δ	9°45'8.6" (LT)
D	5°4'45.0"	D	2°51'53.2"
L	195.76' (CHORD)	L	340.42' (ARC)
T	98.13'	T	170.62'
R	1,128.42'	R	2,000.00'



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SEE PLAN AND PROFILE SHEETS
FOR CONSTRUCTION DETAILS

RIGHT OF WAY PLAN
SHEET 40 OF 49

STATE OF MISSOURI
MARGARET ANN BRUNS
NUMBER PE-2010000798
PROFESSIONAL ENGINEER
7/29/2025 7:57:46 PM
Margaret Ann Bruns - Civil
MO PE-2010000798

DATE PREPARED
7/29/2025

ROUTE	STATE
47	MO
DISTRICT	SHEET NO.
NE	90

COUNTY
LINCOLN

JOB NO.
JNE0003

CONTRACT ID.
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PROJECT NO.
.

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

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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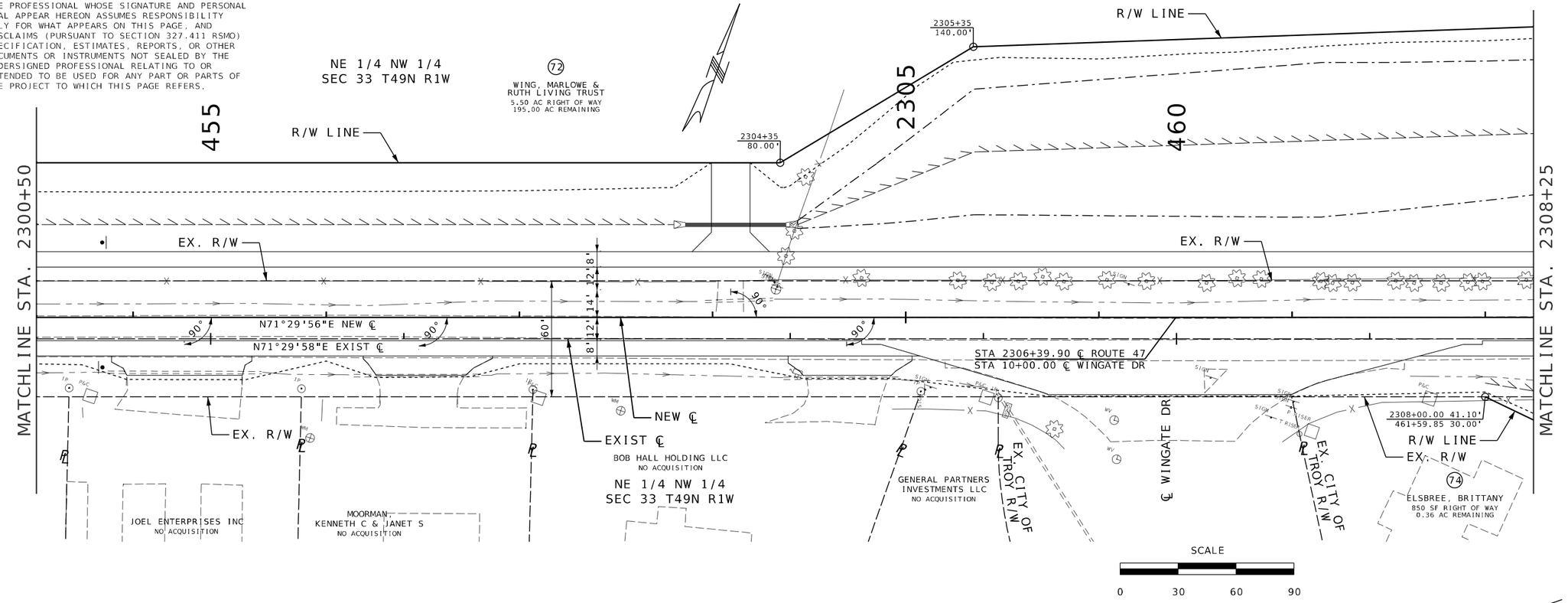

SEE PLAN AND PROFILE SHEETS
FOR CONSTRUCTION DETAILS

RIGHT OF WAY PLAN
SHEET 41 OF 49

STATE OF MISSOURI
PROFESSIONAL ENGINEER
MARGARET ANN BRUNS
NUMBER PE-2010000798

7/29/2025 7:57:46 PM
Margaret Ann Bruns - Civil
MO PE:2010000798

DATE PREPARED
7/29/2025

ROUTE	STATE
47	MO
DISTRICT	SHEET NO.
NE	91

COUNTY
LINCOLN

JOB NO.
JNE0003

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

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

MoDOT

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

EFK•Moen
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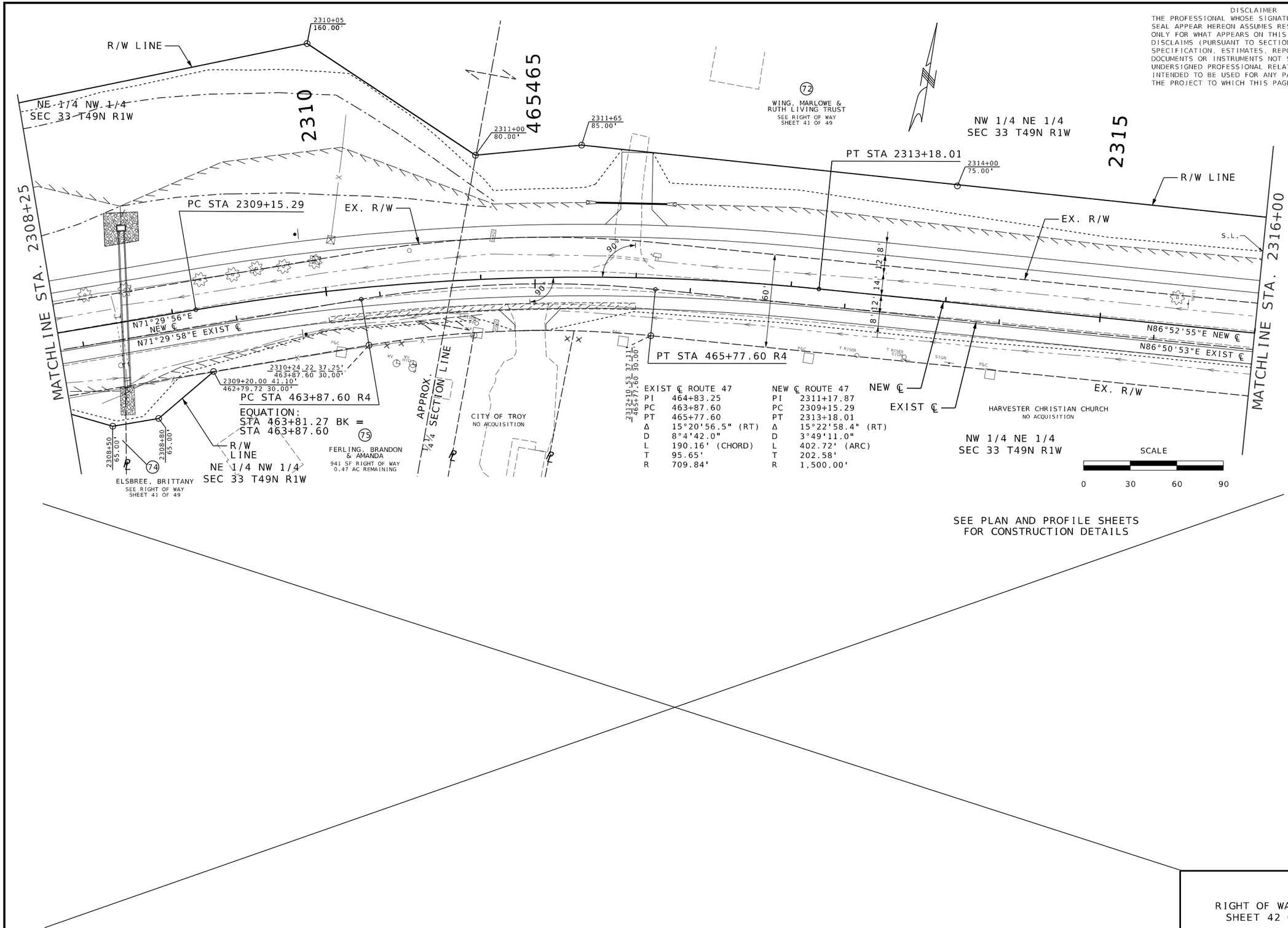
St. Louis, MO 63021
Phone 314-394-3100
Fax 314-394-3199
Missouri Certificate of Authority: 001578



EXIST ℄ ROUTE 47		NEW ℄ ROUTE 47	
PI	464+83.25	PI	2311+17.87
PC	463+87.60	PC	2309+15.29
PT	465+77.60	PT	2313+18.01
Δ	15°20'56.5" (RT)	Δ	15°22'58.4" (RT)
D	8°4'42.0"	D	3°49'11.0"
L	190.16' (CHORD)	L	402.72' (ARC)
T	95.65'	T	202.58'
R	709.84'	R	1,500.00'

DISCLAIMER
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STATE OF MISSOURI
MARGARET ANN BRUNS
NUMBER PE-2010000798
PROFESSIONAL ENGINEER
7/29/2025 7:57:46 PM
Margaret Ann Bruns - Civil
MO PE-2010000798

DATE PREPARED
7/29/2025

ROUTE	STATE
47	MO
DISTRICT	SHEET NO.
NE	92

COUNTY
LINCOLN

JOB NO.
JNE0003

CONTRACT ID.
.

PROJECT NO.
.

BRIDGE NO.
.

DATE	DESCRIPTION
.	.

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

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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

EFK•Moen
Civil Engineering Design
13523 Barrett Parkway Dr
Suite 250
St Louis, MO 63021
Phone 314-394-3100
Fax 314-394-3199
Missouri Certificate of Authority: 001578

RIGHT OF WAY PLAN
SHEET 42 OF 49

O:\2021R2\MoDOT_ORD_v10.10.01.03\22081 Oates MoDOT JNE0003 RTE 47\DGN\Roadway\Final\Plotsheets\092_SS_42_JNE0003_i30_ROW PP.dgn 7:18:37 PM 7/29/2025

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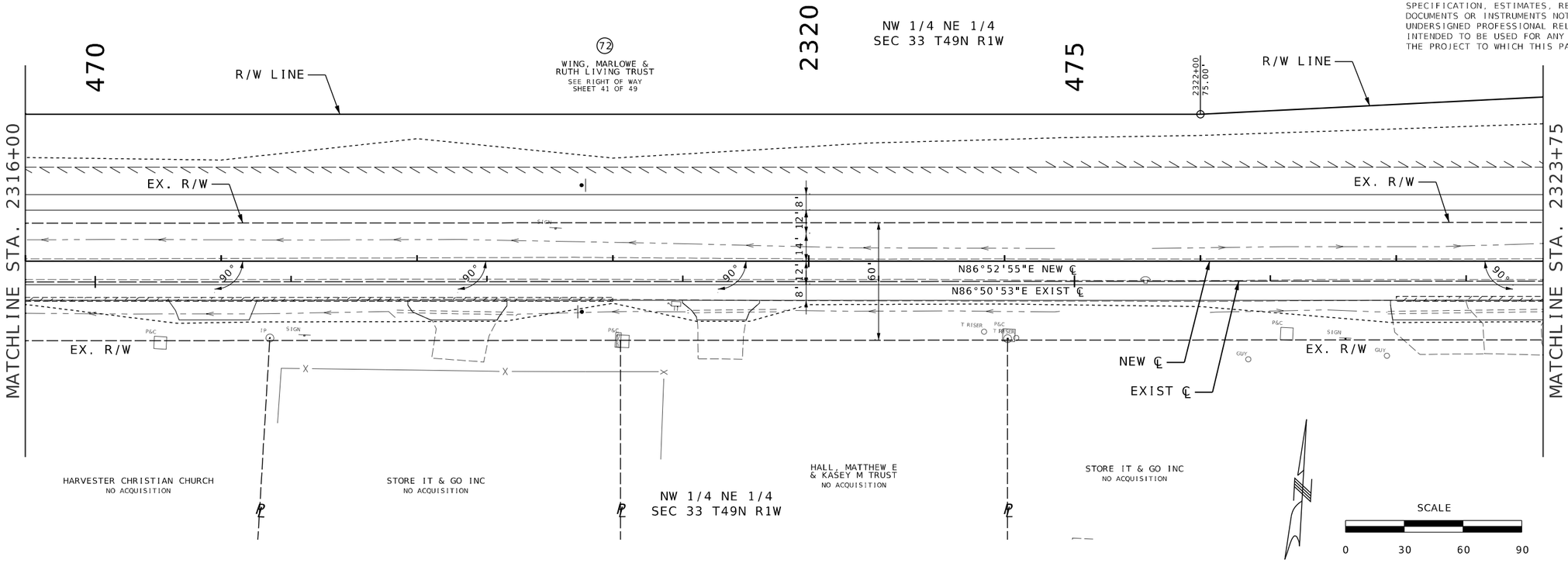

SEE PLAN AND PROFILE SHEETS
FOR CONSTRUCTION DETAILS

RIGHT OF WAY PLAN
SHEET 43 OF 49

STATE OF MISSOURI
PROFESSIONAL ENGINEER
MARGARET ANN BRUNS
NUMBER PE-2010000798

7/29/2025 7:57:46 PM
Margaret Ann Bruns - Civil
MO PE-2010000798

DATE PREPARED
7/29/2025

ROUTE	STATE
47	MO
DISTRICT	SHEET NO.
NE	93

COUNTY
LINCOLN

JOB NO.
JNE0003

CONTRACT ID.
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PROJECT NO.
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BRIDGE NO.
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DESCRIPTION	DATE
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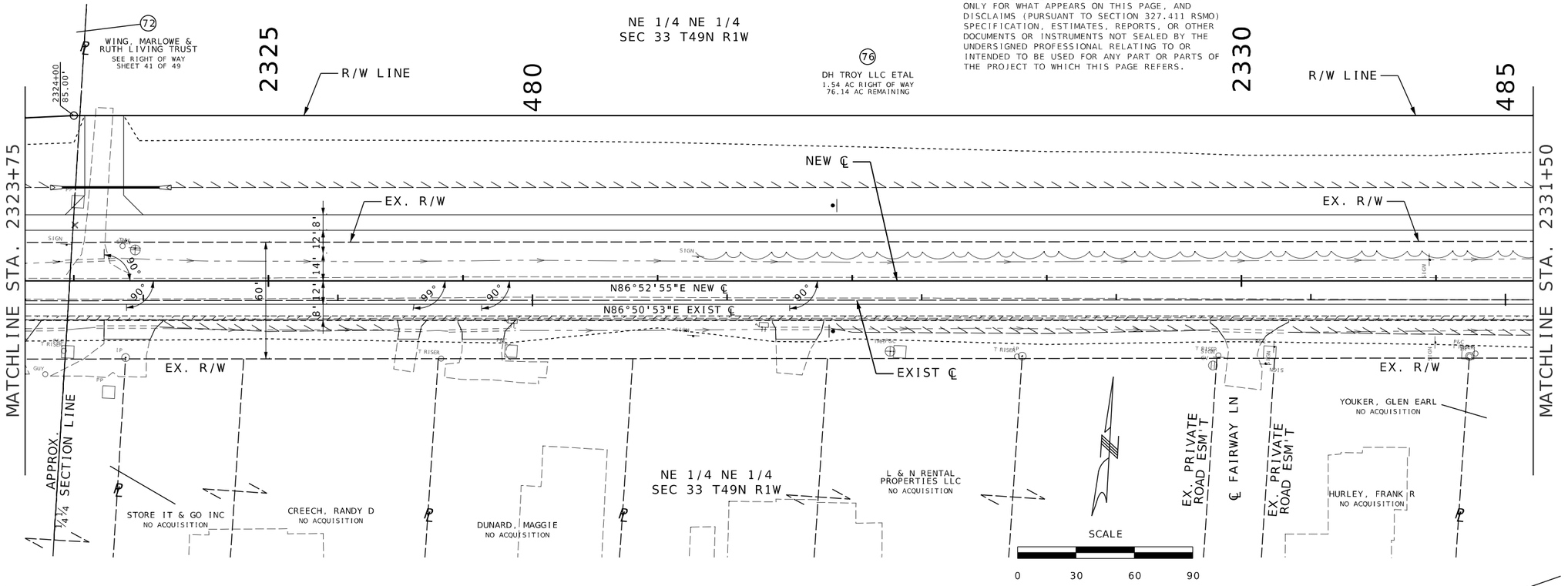

SEE PLAN AND PROFILE SHEETS
FOR CONSTRUCTION DETAILS

RIGHT OF WAY PLAN
SHEET 44 OF 49

STATE OF MISSOURI
MARGARET ANN BRUNS
NUMBER PE-2010000798
PROFESSIONAL ENGINEER
7/29/2025 7:57:46 PM
Margaret Ann Bruns - Civil
MO PE-2010000798

DATE PREPARED
7/29/2025

ROUTE	STATE
47	MO
DISTRICT	SHEET NO.
NE	94

COUNTY
LINCOLN

JOB NO.
JNE0003

CONTRACT ID.
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PROJECT NO.
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BRIDGE NO.
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DESCRIPTION	DATE
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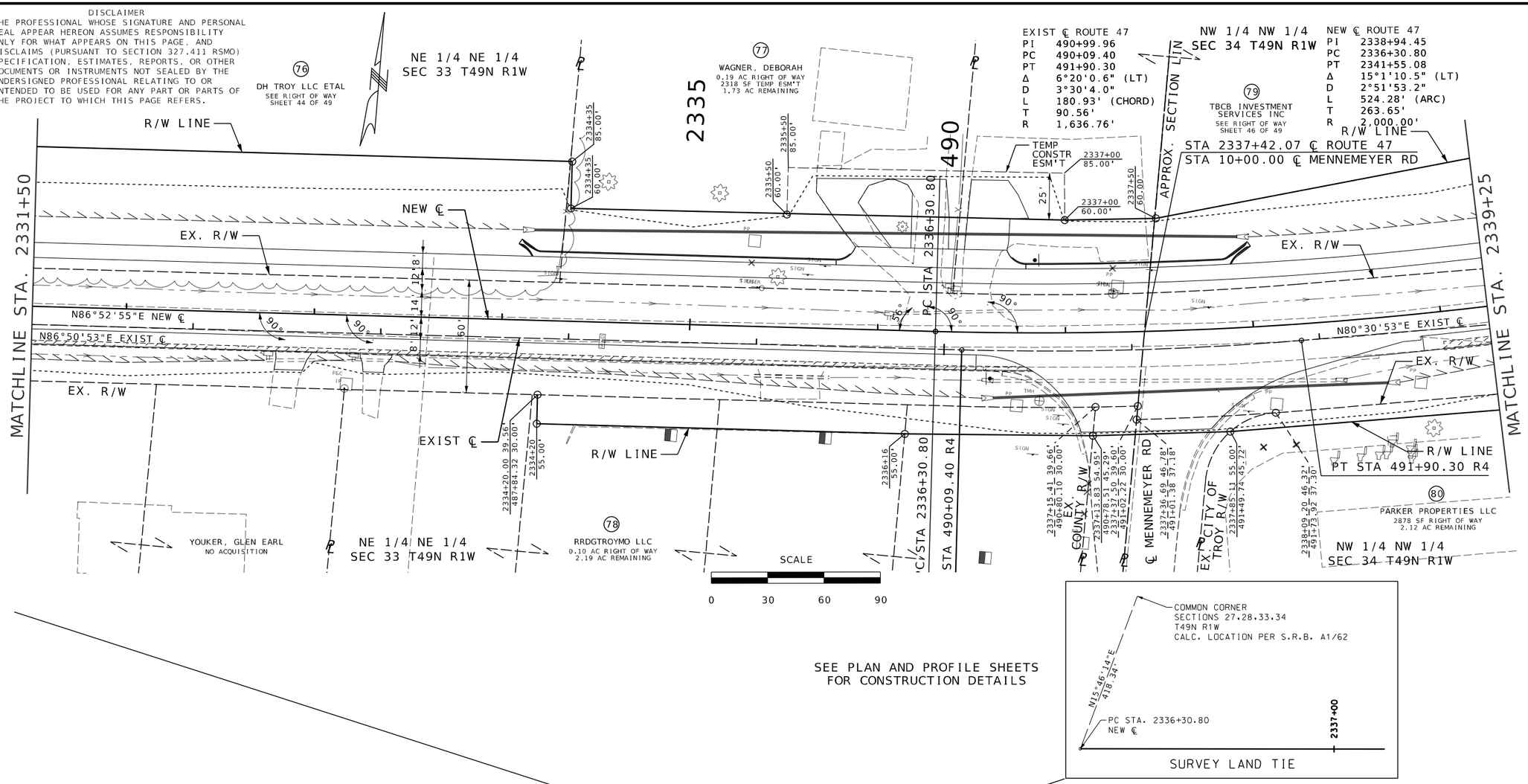

SEE PLAN AND PROFILE SHEETS FOR CONSTRUCTION DETAILS

SURVEY LAND TIE

RIGHT OF WAY PLAN
SHEET 45 OF 49

STATE OF MISSOURI
MARGARET ANN BRUNS NUMBER PE-2010000798
PROFESSIONAL ENGINEER
7/29/2025 7:57:46 PM
Margaret Ann Bruns - Civil
MO PE-2010000798

DATE PREPARED 7/29/2025

ROUTE	STATE
47	MO
DISTRICT	SHEET NO.
NE	95

COUNTY LINCOLN
JOB NO. JNE0003
CONTRACT ID. .
PROJECT NO. .
BRIDGE NO. .

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

EFK•Moen
Civil Engineering Design
13523 Barrett Parkway Dr
Suite 250
St Louis, MO 63021
Phone 314-394-3100
Fax 314-394-3199
Missouri Certificate of Authority: 001578

NEW ℄ ROUTE 47	
PI	2338+94.45
PC	2336+30.80
PT	2341+55.08
Δ	15°1'10.5" (LT)
D	2°51'53.2"
L	524.28' (ARC)
T	263.65'
R	2,000.00'

EXIST ℄ ROUTE 47	
PI	493+72.02
PC	492+99.90
PT	494+43.80
Δ	8°37'59.5" (LT)
D	5°59'58.0"
L	143.97' (CHORD)
T	72.12'
R	955.45'

NW 1/4 NW 1/4
SEC 34 T49N R1W

79 TBCB INVESTMENT SERVICES INC
1.01 AC RIGHT OF WAY
2868 SF TEMP ESM'T
19.15 AC REMAINING

STA 2344+35.19
℄ NEW RTE 47
START STA 492+27.00
℄ 1972 RTE 47
33.00' LT

SW 1/4 SW 1/4
SEC 27 T49N R1W

83 CREECH, CLEMD & PATRICIA A
0.60 AC RIGHT OF WAY
18.22 AC REMAINING

APPROX. SECTION LINE

2340 | 495 | 2345 | 500

MATCHLINE STA. 2339+25

MATCHLINE STA. 2347+00

℄ MANDA RD

EX. PRIVATE ROAD ESM'T

TEMP CONSTR ESM'T

R/W LINE

EX. R/W

NEW ℄

℄ 1972 RTE 47

PT STA 2341+55.08

PC STA 492+99.90 R4

PT STA 494+43.80 R4

STA 2342+50.06 ℄ ROUTE 47
STA 10+00.00 ℄ WOODCREST DR

N72°10'24"E 1972 ℄

N71°51'44"E NEW ℄

N71°52'53"E EXIST ℄

EXIST ℄

2340+00 60.00'

2341+20 55.00'

2342+00 65.00'

2342+12.84 65.00' 495+79.77 56.07'

2343+00 80.00'

2343+00 95.00'

2342+00 80.00'

2344+00 95.00'

2344+00 80.00'

2344+52.00 80.00' 492+43.55 47.09'

2344+63.74 112.15' 492+55.11 79.31'

2344+85.00 112.07' 492+76.38 79.34'

2345+35 160.00'

2345+33.08 39.03' 499+00.00 30.00'

2344+05.00 38.99' 497+71.93 30.00'

2343+12.16 65.00' 496+79.09 56.04'

2343+30 65.00'

15'

66°

75°

90°

88°

60'

80 PARKER PROPERTIES LLC
SEE RIGHT OF WAY SHEET 45 OF 49

82 WOODCREST VILLAS LP
2501 SF RIGHT OF WAY
12.81 AC REMAINING

EX. CITY OF TROY R/W

℄ WOODCREST DR

NW 1/4 NW 1/4
SEC 34 T49N R1W

PATTON, BARRY D
NO ACQUISITION

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SCALE
0 30 60 90

SEE PLAN AND PROFILE SHEETS
FOR CONSTRUCTION DETAILS

RIGHT OF WAY PLAN
SHEET 46 OF 49

STATE OF MISSOURI
PROFESSIONAL ENGINEER
MARGARET ANN BRUNS
NUMBER PE-2010000798
7/29/2025 7:57:46 PM
Margaret Ann Bruns - Civil
MO PE-2010000798

DATE PREPARED
7/29/2025

ROUTE	STATE
47	MO
DISTRICT	SHEET NO.
NE	96

COUNTY
LINCOLN

JOB NO.
JNE0003

CONTRACT ID.
.

PROJECT NO.
.

BRIDGE NO.
.

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

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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

EFK•Moen
Civil Engineering Design
13523 Barrett Parkway Dr
Suite 250
St Louis, MO 63021
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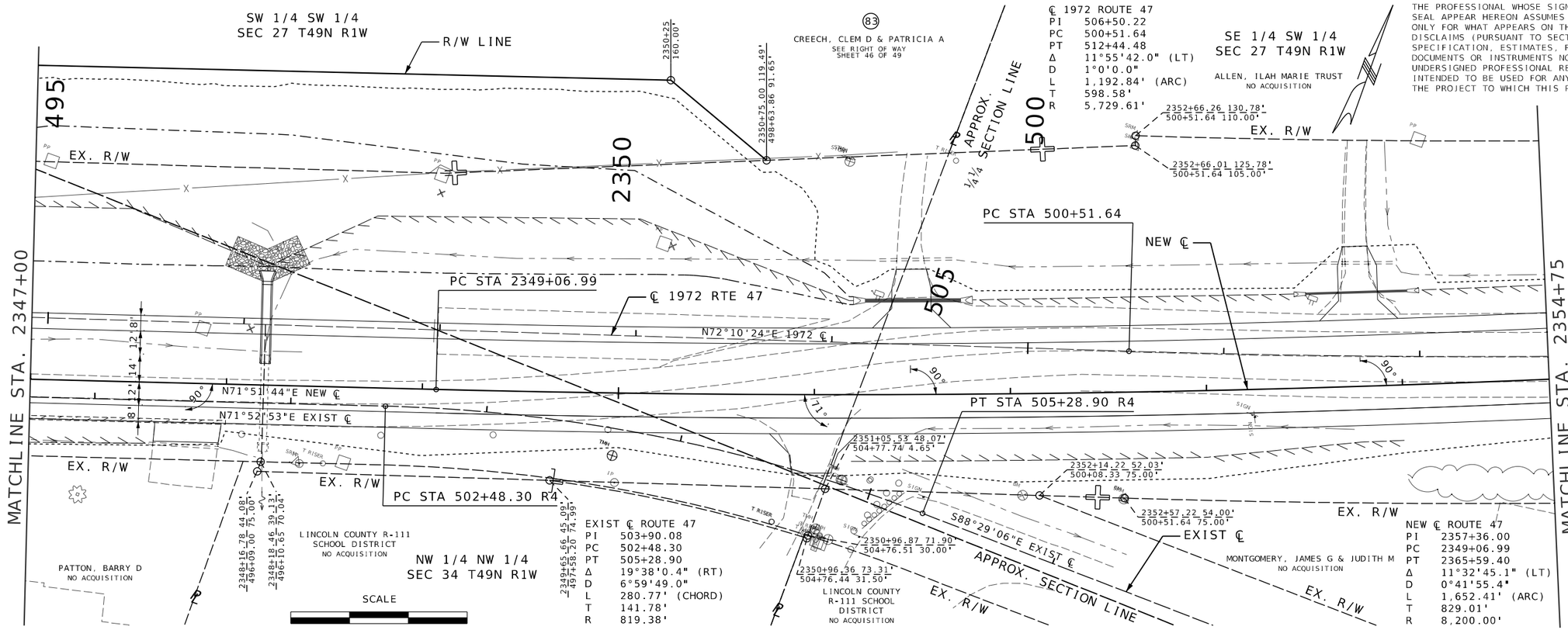
Fax 314-394-3199
Missouri Certificate of Authority: 001578



SEE PLAN AND PROFILE SHEETS
FOR CONSTRUCTION DETAILS

RIGHT OF WAY PLAN
SHEET 47 OF 49

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Margaret Ann Bruns - Civil
MO PE-2010000798

DATE PREPARED
7/29/2025

ROUTE	STATE
47	MO
DISTRICT	SHEET NO.
NE	97

COUNTY
LINCOLN

JOB NO.
JNE0003

CONTRACT ID.
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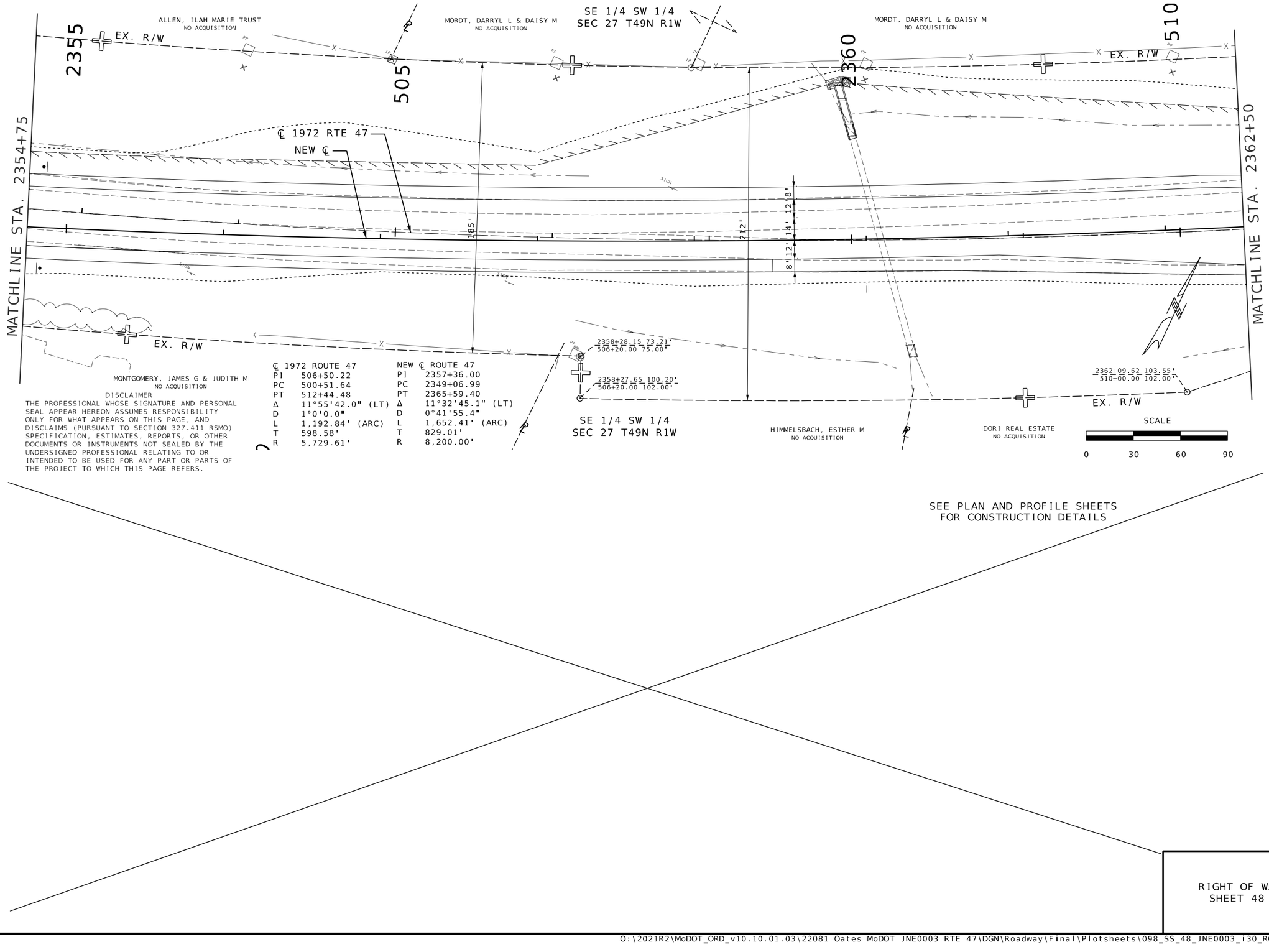

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℄ 1972 ROUTE 47		NEW ℄ ROUTE 47	
PI	506+50.22	PI	2357+36.00
PC	500+51.64	PC	2349+06.99
PT	512+44.48	PT	2365+59.40
Δ	11°55'42.0" (LT)	Δ	11°32'45.1" (LT)
D	1°0'0.0"	D	0°41'55.4"
L	1,192.84' (ARC)	L	1,652.41' (ARC)
T	598.58'	T	829.01'
R	5,729.61'	R	8,200.00'

SEE PLAN AND PROFILE SHEETS
FOR CONSTRUCTION DETAILS

RIGHT OF WAY PLAN
SHEET 48 OF 49

STATE OF MISSOURI
PROFESSIONAL ENGINEER
MARGARET ANN BRUNS
NUMBER PE-2010000798

7/29/2025 7:57:46 PM
Margaret Ann Bruns - Civil
MO PE:2010000798

DATE PREPARED
7/29/2025

ROUTE	STATE
47	MO
DISTRICT	SHEET NO.
NE	98

COUNTY
LINCOLN

JOB NO.
JNE0003

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DATE	DESCRIPTION

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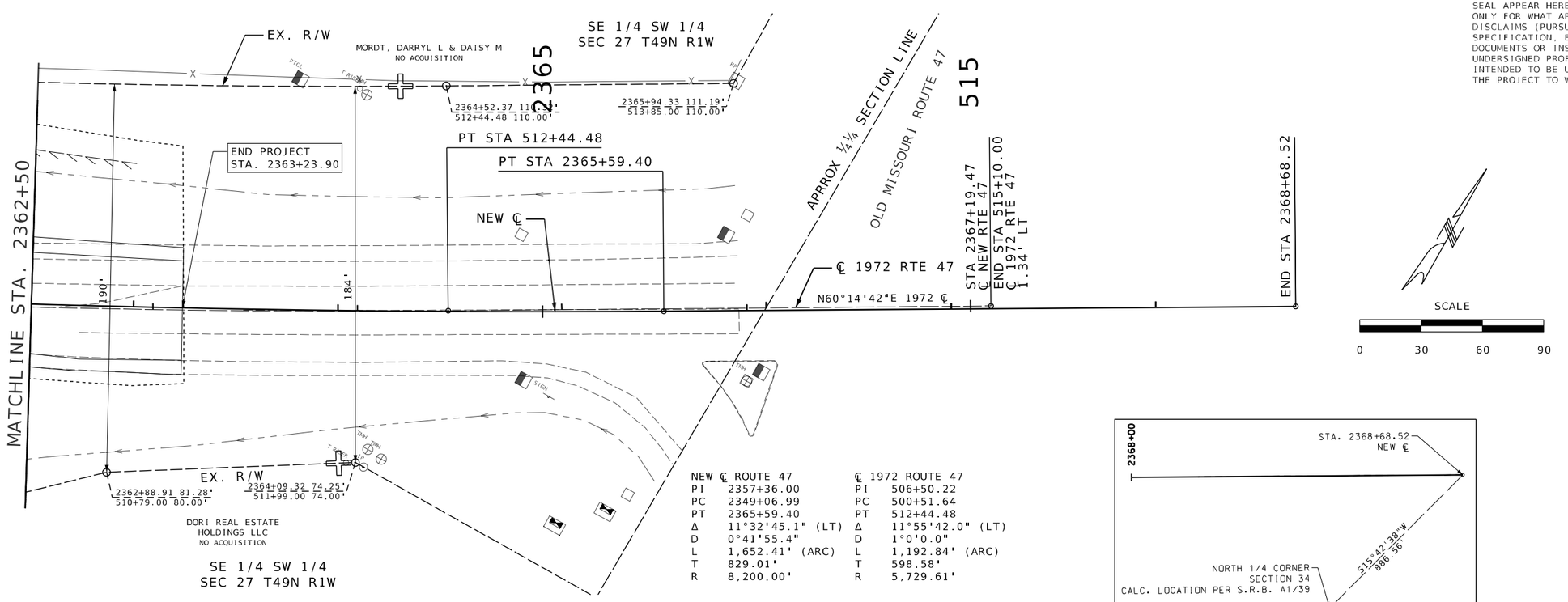
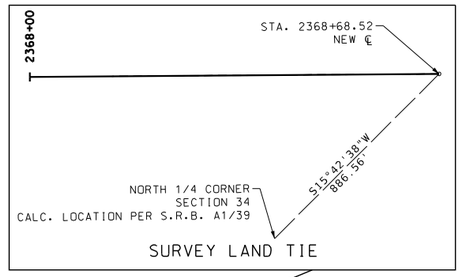


NEW ℄ ROUTE 47		℄ 1972 ROUTE 47	
PI	2357+36.00	PI	506+50.22
PC	2349+06.99	PC	500+51.64
PT	2365+59.40	PT	512+44.48
Δ	11°32'45.1" (LT)	Δ	11°55'42.0" (LT)
D	0°41'55.4"	D	1°0'0.0"
L	1,652.41' (ARC)	L	1,192.84' (ARC)
T	829.01'	T	598.58'
R	8,200,00'	R	5,729.61'



SEE PLAN AND PROFILE SHEETS
FOR CONSTRUCTION DETAILS

RIGHT OF WAY PLAN
SHEET 49 OF 49

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MARGARET ANN BRUNS
NUMBER PE-2010000798
PROFESSIONAL ENGINEER
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Margaret Ann Bruns - Civil
MO PE-2010000798

DATE PREPARED
7/29/2025

ROUTE	STATE
47	MO
DISTRICT	SHEET NO.
NE	99

COUNTY
LINCOLN

JOB NO.
JNE0003

CONTRACT ID.
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PROJECT NO.
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BRIDGE NO.
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DESCRIPTION	DATE
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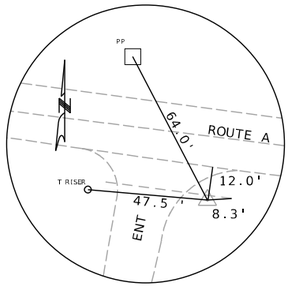
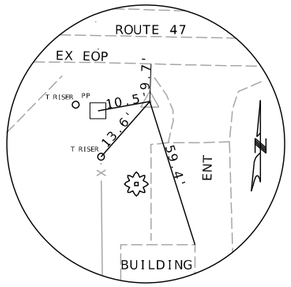
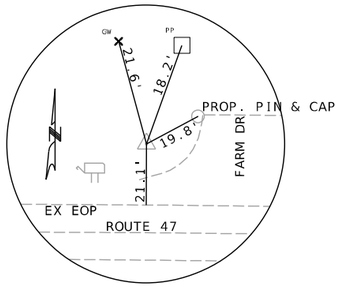


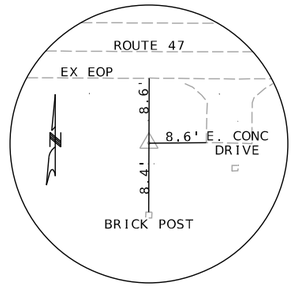
CONTROL POINT NO. 1
"100D" NAIL 0.4' DEEP
N: 1144030.512
E:641052.743
EL:718.953
STA:1998+96.13
OFFSET:25.1' RT



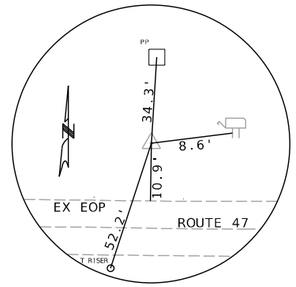
CONTROL POINT NO. 2
"100D" NAIL 0.4' DEEP
N:1144007.742
E:641945.130
EL:727.916
STA: 2007+87.25
OFFSET:20.4' RT



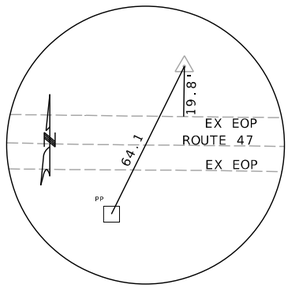
CONTROL POINT NO. 3
"100D" NAIL 0.4' DEEP
N:1144009.734
E:645122.230
EL:727.934
STA: 2039+64.06
OFFSET:27.1' LT



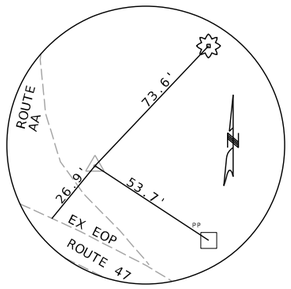
CONTROL POINT NO. 4
"100D" NAIL 0.3' DEEP
N:1143891.305
E:650356.321
EL:723.545
STA: 2091+99.18
OFFSET: 29.9' RT



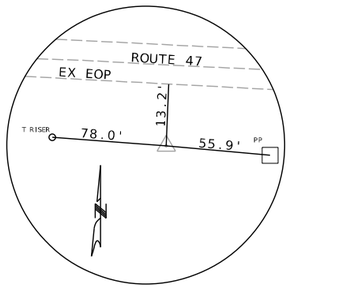
CONTROL POINT NO. 5
"100D" NAIL 0.3' DEEP
N:1143906.901
E:652379.124
EL:723.033
STA: 2112+21.66
OFFSET: 9.4' LT



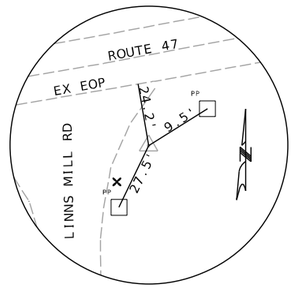
CONTROL POINT NO. 6
"100D" NAIL
N:1143741.010
E:656320.943
EL:723.962
STA: 2151+72.27
OFFSET:19.4' LT



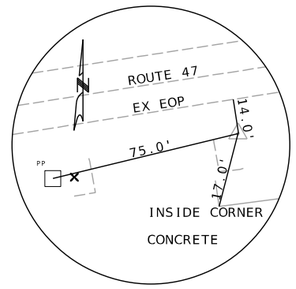
CONTROL POINT NO. 7
"100D" NAIL 0.3' DEEP
N:1143650.434
E:659377.582
EL:701.055
STA: 2182+00.81
OFFSET:242.7' LT



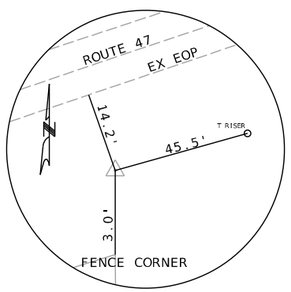
CONTROL POINT NO. 8
"100D" NAIL 0.4' DEEP
N:1143065.449
E:662786.984
EL:669.408
STA: 2216+99.01
OFFSET:32.7' RT



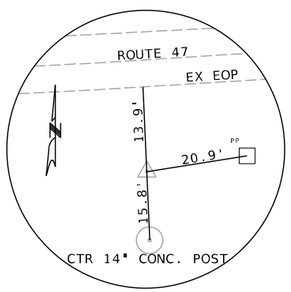
CONTROL POINT NO. 9
"100D" NAIL 0.4' DEEP
N:1142961.955
E:665377.317
EL:683.121
STA: 2242+92.94
OFFSET:10.3' RT



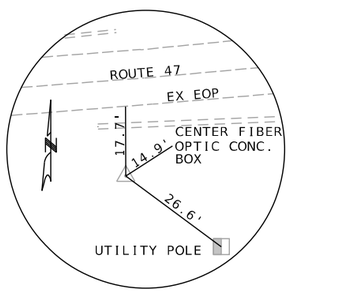
CONTROL POINT NO. 10
"100D" NAIL 0.4' DEEP
N:1143210.264
E:669662.768
EL:683.551
STA: 2286+04.40
OFFSET:33.8' RT



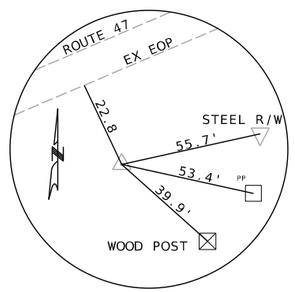
CONTROL POINT NO. 11
1/2 PIPE & CAP (KALLASH)
N:1143439.353
E:670740.753
EL:687.805
STA: 2297+03.32
OFFSET:35.0' RT



CONTROL POINT NO. 12
"100D" NAIL 0.4' DEEP
N:1143947.323
E:673178.987
EL:687.174
STA: 2322+23.10
OFFSET:34.4' RT



CONTROL POINT NO. 13
"100D" NAIL 0.4' DEEP
N:1144024.974
E:674626.090
EL:660.828
STA: 2236+71.55
OFFSET:36.0' RT



CONTROL POINT NO. 14
"100D" NAIL 0.4' DEEP
N:1144667.499
E:676644.337
EL:641.838
STA: 2357+82.86
OFFSET:41.4' RT

NOT TO SCALE

REFERENCE POINTS SHEET
SHEET 1 OF 1

STATE OF MISSOURI
JEFFREY R. RENSING
NUMBER PE-2006012376
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

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

DATE PREPARED	
8/26/2025	
ROUTE	STATE
47	MO
DISTRICT	SHEET NO.
NE	100
COUNTY	
LINCOLN	
JOB NO.	
JNE0003	
CONTRACT ID.	
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PROJECT NO.	
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BRIDGE NO.	
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DESCRIPTION	DATE
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MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

105 WEST CAPITOL
JEFFERSON CITY, MO 65102
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H:\P\222102 - Route 47 Pavement, Safety, and Shoulder Improvements\CADD\Microstation\CADD Drawings\JNE0003 - sht-Coordinate points.dgn 8:43:29 AM 8/26/2025

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

PROJECT COORDINATE INFORMATION

COORDINATE SYSTEM	MODIFIED STATE PLANE (GROUND)
HORIZONTAL DATUM	NAD 83(2011) EPOCH 2010
VERTICAL DATUM	NAVD 88: GNSS DERIVED
GEOID MODEL	12B
ELEVATIONS DETERMINED BY	DIFFERENTIAL LEVELING / GPS - MODOT VRS
PROJECT PROJECTION FACTOR	1.00006584

REFERENCE CONTROL INFORMATION

COORDINATE SYSTEM	MO COORDINATE SYSTEM OF 1983
CONTROL STATION	MISSOURI CORS
DESIGNATION	MODOT WARRENTON CORS ARP
CORS_ID	MOWR
PID	DL6157
LATITUDE	38 48 52.70169 N
LONGITUDE	091 09 40.92390 W
NORTHING (M)	331062.384
EASTING (M)	192562.461
ZONE	EAST
PROJECT AVERAGE GRID FACTOR	0.99993416

EXAMPLE OF PROJECT COORDINATE TO S.P.C.

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

EXAMPLE: CONTROL POINT #__GPS 1_
N 1144030.512 X 0.99993416 = N 1143955.194
E 641052.743 X 0.99993416 = E 641010.539

LINEAR UNIT CONVERSION

1 METER = 3.280833333 US SURVEY FEET (USFT)

POINT TYPE	STATION	NORTHING	EASTING	RADIUS	LENGTH	TANGENT
ALIGNMENT NAME:		ROUTE 47 - EXISTING				
DESCRIPTION:						
START	151+69.00 R1	1144038.0872	641158.3381			
HPI	159+00.00 R1	1144028.0998	641889.2699			
HPI	173+00.00 R1	1144002.8642	643289.0424			
HPI	191+00.00 R1	1143971.9890	645088.7776			
HPI	200+00.00 R1	1143960.7397	645988.7073			
HPI	226+00.00 R1	1143935.8044	648588.5877			
HPI	238+00.00 R1	1143921.1544	649788.4983			
HPI	244+00.00 R1	1143915.9237	650388.4755			
HPI	264+00.00 R1	1143885.1081	652388.2381			
HPI	274+50.00 R1	1143877.8132	653438.2127			
PC	285+25.30 R1	1143860.9593	654513.3806			
HPI	286+43.43 R1	1143859.1077	654631.4984	818.92	234.65	118.13
PT	287+59.80 R1	1143823.9485	654744.2773			
PC	289+55.00 R1	1143765.8521	654930.6314			
HPI	290+72.52 R1	1143730.8753	655042.8253	818.89	233.45	117.52
PT	291+88.30 R1	1143728.8624	655160.3276			
HPI	303+05.90 R1	1143709.7225	656277.7636			
PC	331+50.60 R1	1143670.1000	659122.1876			
HPI	334+00.05 R1	1143666.6256	659371.6090	573.69	470.60	249.45
PT	336+20.60 R1	1143481.8408	659539.1730			
PC	337+49.40 R2	1143387.8280	659624.4243			
HPI	339+88.21 R2	1143210.9247	659784.8413	569.94	452.28	238.81
PT	342+01.10 R2	1143201.2131	660023.4500			
HPI	344+64.00 R2	1143190.5217	660286.1325			
HPI	354+00.00 R2	1143152.4571	661221.3602			
HPI	369+00.00 R3	1143096.6324	662635.2585			
HPI	378+00.00 R3	1143043.6990	663533.7005			
PC	393+30.80 R3	1142965.6477	665062.5094			
HPI	394+16.20 R3	1142961.2935	665147.7968	764.35	170.09	85.40
PT	395+00.77 R3	1142975.8695	665231.9421			
PC	408+64.40 R3	1143208.6144	666575.5644			
HPI	409+55.14 R3	1143224.1018	666664.9724	1432.29	181.24	90.74
PT	410+45.60 R3	1143228.1822	666755.6201			
PC	421+22.00 R3	1143276.5864	667830.9312			
HPI	422+34.96 R3	1143281.6659	667943.7731	1432.59	225.45	112.96
PT	423+47.40 R3	1143268.9979	668056.0166			
PC	433+21.30 R3	1143159.7745	669023.7722			
HPI	433+96.83 R3	1143151.3041	669098.8229	573.69	150.19	75.53
PT	434+71.30 R3	1143162.5469	669173.5086			
PC	445+94.99 R3	1143329.8165	670284.6801			
HPI	446+93.12 R3	1143344.4236	670381.7151	1128.42	195.76	98.13
PT	447+90.69 R3	1143375.5612	670474.7721			
PC	463+87.60 R4	1143880.2758	671983.1490			
HPI	464+83.25 R4	1143910.6281	672073.8582	709.84	190.16	95.65
PT	465+77.60 R4	1143915.8872	672169.3661			
PC	490+09.40 R4	1144049.5916	674597.4877			
HPI	490+99.96 R4	1144054.5706	674687.9070	1636.76	180.93	90.56
PT	491+90.30 R4	1144069.4938	674777.2252			
PC	492+99.90 R4	1144087.5553	674885.3267			
HPI	493+72.02 R4	1144099.4402	674956.4600	955.45	143.97	72.12
PT	494+43.80 R4	1144121.8681	675025.0034			
PC	502+48.30 R4	1144372.0544	675789.6125			
HPI	503+90.08 R4	1144416.1448	675924.3598	819.38	280.77	141.78
PT	505+28.90 R4	1144412.3967	676066.0875			
HPI	511+17.80 R4	1144396.8279	676654.7817			
END	519+17.29 R4	1144354.7734	677453.1655			

POINT TYPE	STATION	NORTHING	EASTING	RADIUS	LENGTH	TANGENT
ALIGNMENT NAME:		ROUTE 47				
DESCRIPTION:						
START	2000+00.00	1144038.0872	641158.3381			
HPI	2007+22.55	1144029.3849	641880.8307			
HPI	2018+92.24	1144006.6834	643050.3076			
HPI	2021+52.82	1144002.1871	643310.8458			
HPI	2025+34.60	1143998.2209	643692.6029			
PC	2028+57.93	1143992.0219	644015.8742			
HPI	2029+72.56	1143990.1742	644130.4911	7000.00	229.24	114.63
PRC	2030+87.17	1143992.0804	644245.1070			
HPI	2032+02.57	1143993.9994	644360.4912	7000.00	230.78	115.40
PT	2033+17.95	1143992.1140	644475.8760			
HPI	2037+30.30	1143985.3770	644888.1726			
PC	2132+13.86	1143874.1301	654371.0745			
HPI	2134+03.42	1143871.9065	654560.6211	3000.00	378.62	189.56
PT	2135+92.47	1143845.8422	654748.3803			
PC	2142+38.08	1143757.0719	655387.8551			
HPI	2144+25.86	1143731.2527	655573.8481	3000.00	375.06	187.78
PT	2146+13.14	1143728.8277	655761.6089			
PC	2167+14.20	1143701.6936	657862.4880			
HPI	2170+74.22	1143697.0441	658222.4797	3000.00	716.62	360.02
PT	2174+30.81	1143607.3501	658571.1494			
PT	2174+30.81	1143607.2876	658571.3925			
PC	2187+22.92	1143285.2731	659822.7337			
HPI	2190+43.85	1143205.2920	660133.5387	3000.00	639.43	320.93
PT	2193+62.35	1143192.8663	660454.2292			
HPI	2212+12.89	1143121.2183	662303.3730			
PC	2215+52.82	1143105.8009	662642.9558			
HPI	2218+88.89	1143090.5587	662978.6813	10000.00	671.89	336.07
PT	2222+24.71	1143052.8107	663312.6261			
PT	2222+24.71	1143052.8107	663312.6263			
PC	2222+24.71	1143052.8101	663312.6315			
PC	2222+24.71	1143052.8101	663312.6317			
HPI	2225+14.93	1143020.2122	663601.0150	10000.00	580.28	290.22
PT	2228+04.99	1143004.3940	663890.8035			
PC	2238+50.69	1142947.3989	664934.9537			
HPI	2240+82.03	1142934.7901	665165.9454	2000.00	460.62	231.34
PT	2243+11.32	1142975.2454	665393.7161			
HPI	2248+14.09	1143063.1692	665888.7433			
PC	2253+54.09	1143157.6019	666420.4169			
HPI	2255+51.74	1143192.1660	666615.0190	3000.00	394.73	197.65
PT	2257+48.81	1143200.9004	666812.4737			
PC	2267+41.38	1143244.7634	667804.0716			
HPI	2271+33.53	1143262.0929	668195.8342	5000.00	782.69	392.15
PT	2275+24.07	1143218.1350	668585.5082			
PC	2279+16.80	1143174.1115	668975.7645			
HPI	2280+50.09	1143159.1699	669108.2175	1000.00	265.02	133.29
PT	2281+81.83	1143179.4437	669239.9598			
PC	2291+60.95	1143328.3686	670207.6966			
HPI	2293+31.58	1143354.3204	670376.3349	2000.00	340.42	170.62
PT	2295+01.38	1143408.4629	670538.1403			
PC	2309+15.29	1143857.1273	671878.9786			
HPI	2311+17.87	1143921.4102	672071.0889	1500.00	402.72	202.58
PT	2313+18.01	1143932.4295	672273.3689			
PC	2336+30.80	1144058.2324	674582.7341			
HPI	2338+94.45	1144072.5736	674845.9967	2000.00	524.28	263.65
PT	2341+55.08	1144154.6493	675096.5490			
PC	2349+06.99	1144388.7199	675811.0961			
HPI	2357+36.00	1144646.7928	676598.9151	8200.00	1652.41	829.01
PT	2365+59.40	1145057.3273	677319.1386			
END	2368+68.52	1145210.4059	677587.6929			

COORDINATE POINT LISTING

SHEET NO	STATION	LOCATION	OFFSET (USFT)	MODIFIED STATE PLANE (GROUND) NORTHING (US SURVEY FT)	EASTING (US SURVEY FT)	ELEVATION (US SURVEY FT)	DESCRIPTION	POINT ID
PROJECT CONTROL POINTS								
	-	-	RT	1144030.5120	641052.7431	718.953	100d NAIL, 0.4' DEEP, AHEAD OF POB	CP #1
	2007+87.25	20.39	RT	1144007.7415	641945.1299	727.916	100d NAIL, 0.4' DEEP	CP #2
	2039+64.06	27.10	LT	1144009.7336	645122.2301	727.934	100d NAIL, 0.4' DEEP	CP #3
	2091+99.18	29.92	RT	1143891.3048	650356.3206	723.545	100d NAIL, 0.3' DEEP	CP #4
	2112+21.66	9.40	LT	1143906.9009	652379.1238	723.033	100d NAIL, 0.3' DEEP	CP #5
	2151+72.27	19.40	LT	1143741.0100	656320.9433	723.962	100d NAIL	CP #6
	2182+00.81	242.70	LT	1143650.4340	659377.5816	701.055	100d NAIL, 0.3' DEEP	CP #7
	2216+99.01	32.71	RT	1143065.4495	662786.9840	699.408	100d NAIL, 0.4' DEEP	CP #8
	2242+92.94	10.30	RT	1142961.9547	665377.3166	683.121	100d NAIL, 0.4' DEEP	CP #9
	2286+04.40	33.85	RT	1143210.2640	669662.7677	683.551	100d NAIL, 0.4' DEEP	CP #10
	2297+03.32	35.00	RT	1143439.3531	670740.7527	687.805	1/2" PIPE AND CAP (KALLASH)	CP #11
	2322+23.10	34.39	RT	1143947.3225	673178.9872	687.174	100d NAIL, 0.4' DEEP	CP #12
	2336+71.55	35.99	RT	1144024.9736	674626.0895	660.828	100d NAIL, 0.4' DEEP	CP #13
	2357+82.86	41.43	RT	1144667.4989	676644.3373	641.838	100d NAIL, 0.4' DEEP	CP #14

COORDINATE POINTS
SHEETS
SHEET 1 OF 1

STATE OF MISSOURI
JEFFREY R. RENSING
NUMBER PE-2006012376
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED
8/26/2025

ROUTE	STATE
47	MO

DISTRICT	SHEET NO.
NE	101

COUNTY
LINCOLN

JOB NO.
JNE0003

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

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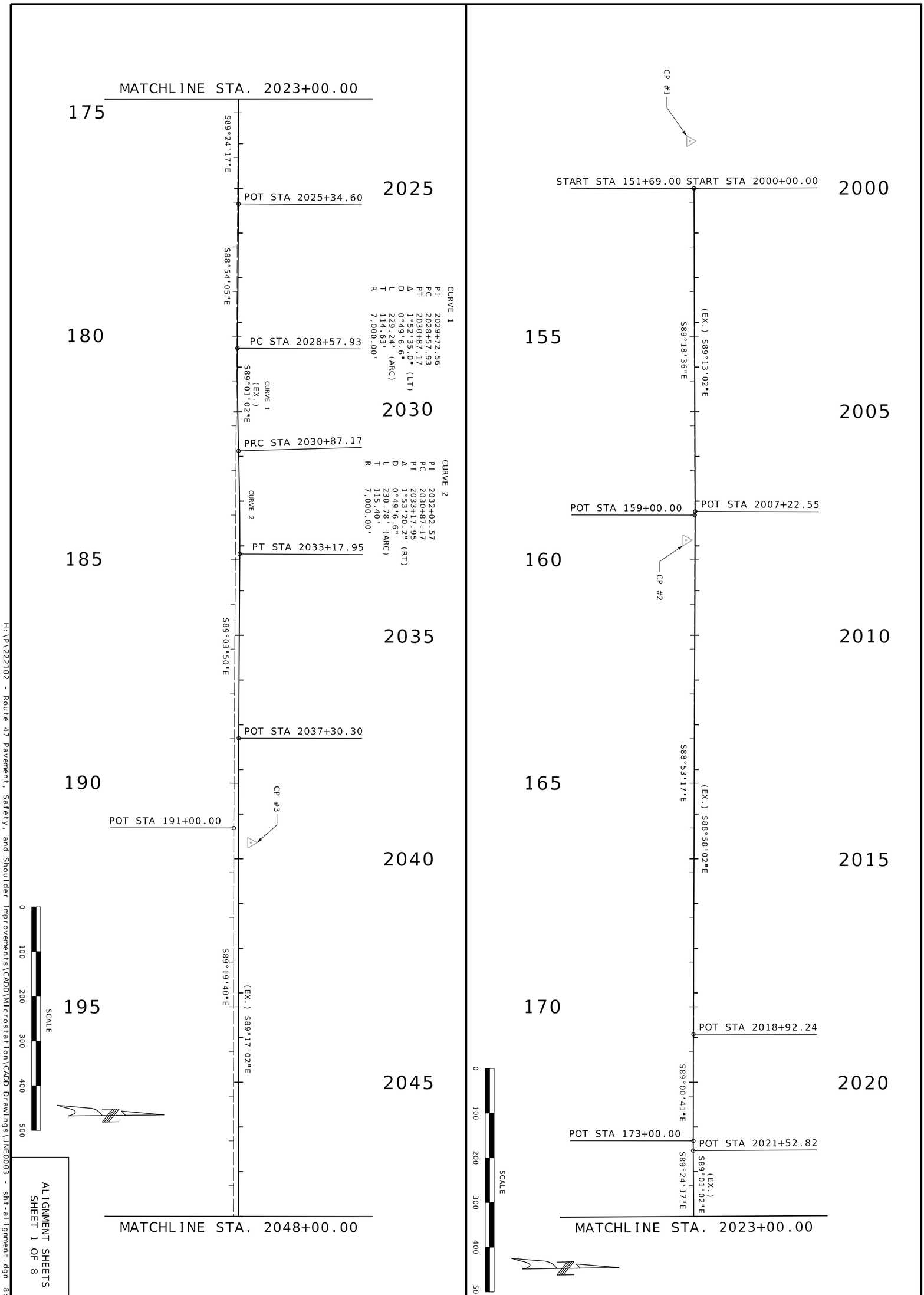

ALIGNMENT SHEETS
SHEET 1 OF 8

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DATE	DESCRIPTION
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BRIDGE NO. .
PROJECT NO. .
CONTRACT ID. JNE0003
JOB NO. JNE0003
COUNTY LINCOLN
DISTRICT NE
SHEET NO. 102
ROUTE 47
STATE MO
DATE PREPARED 8/26/2025

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY

STATE OF MISSOURI
JEFFREY R. REISING
NUMBER PE-2009012376
PROFESSIONAL ENGINEER

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

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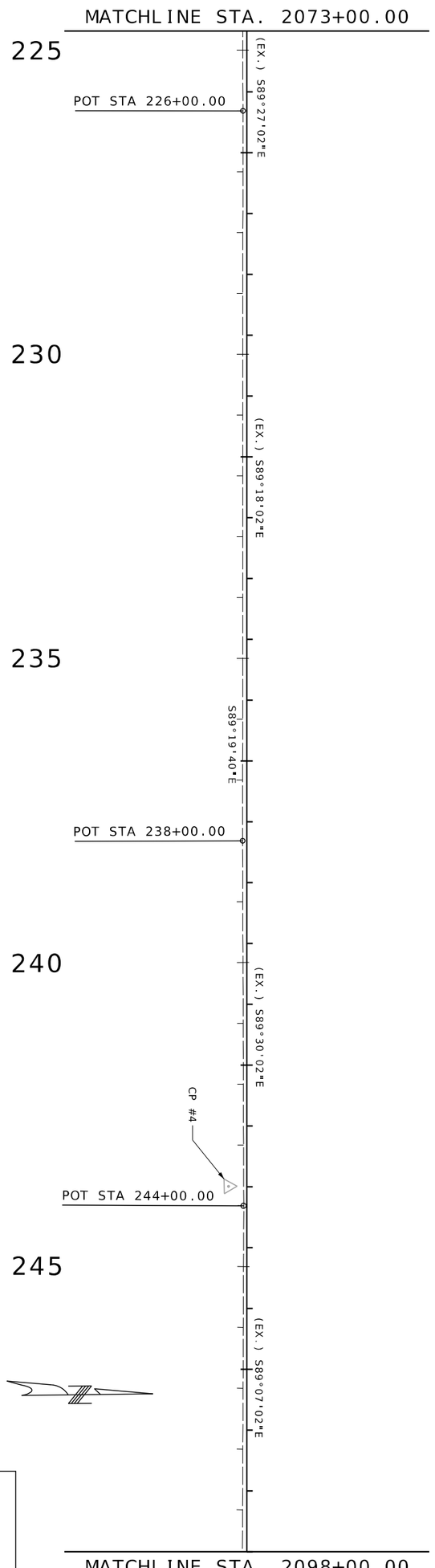

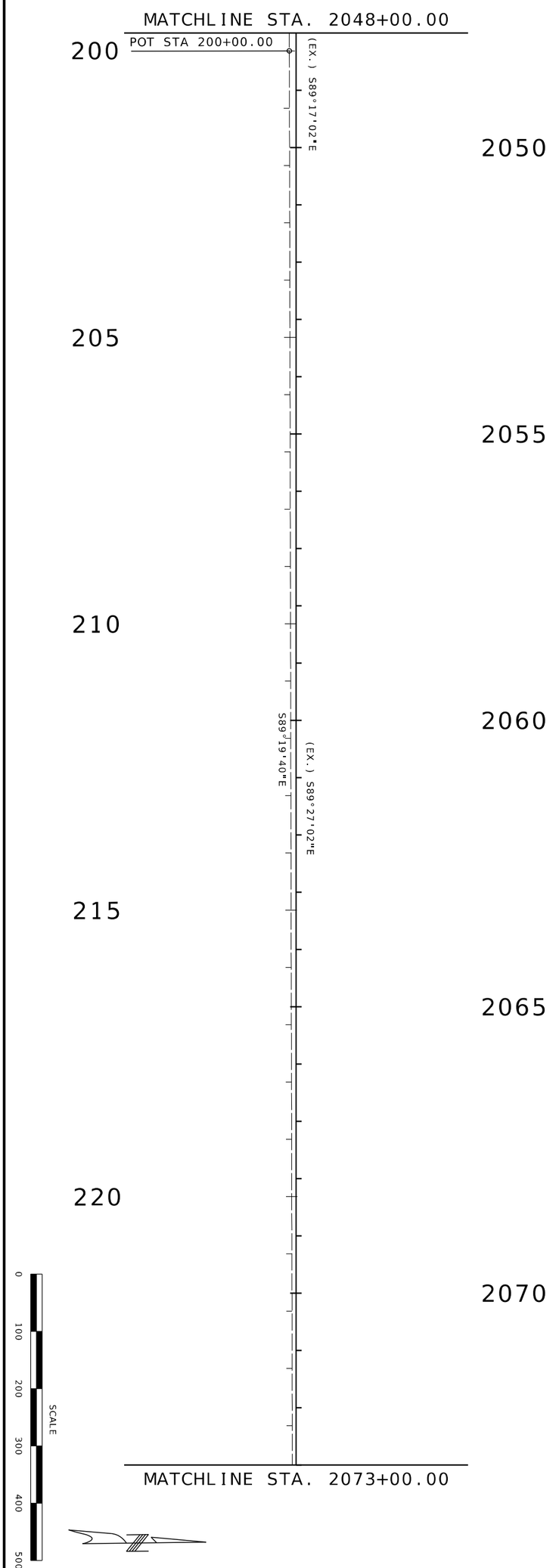

ALIGNMENT SHEETS
SHEET 2 OF 8

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DATE	DESCRIPTION
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BRIDGE NO. .
PROJECT NO. .
CONTRACT ID. .
JOB NO. JNE0003
COUNTY LINCOLN
DISTRICT NE
SHEET NO. 103
ROUTE 47
STATE MO
DATE PREPARED 8/26/2025

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY

STATE OF MISSOURI
JEFFREY R. REHSING
NUMBER PE-2009013176
PROFESSIONAL ENGINEER

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

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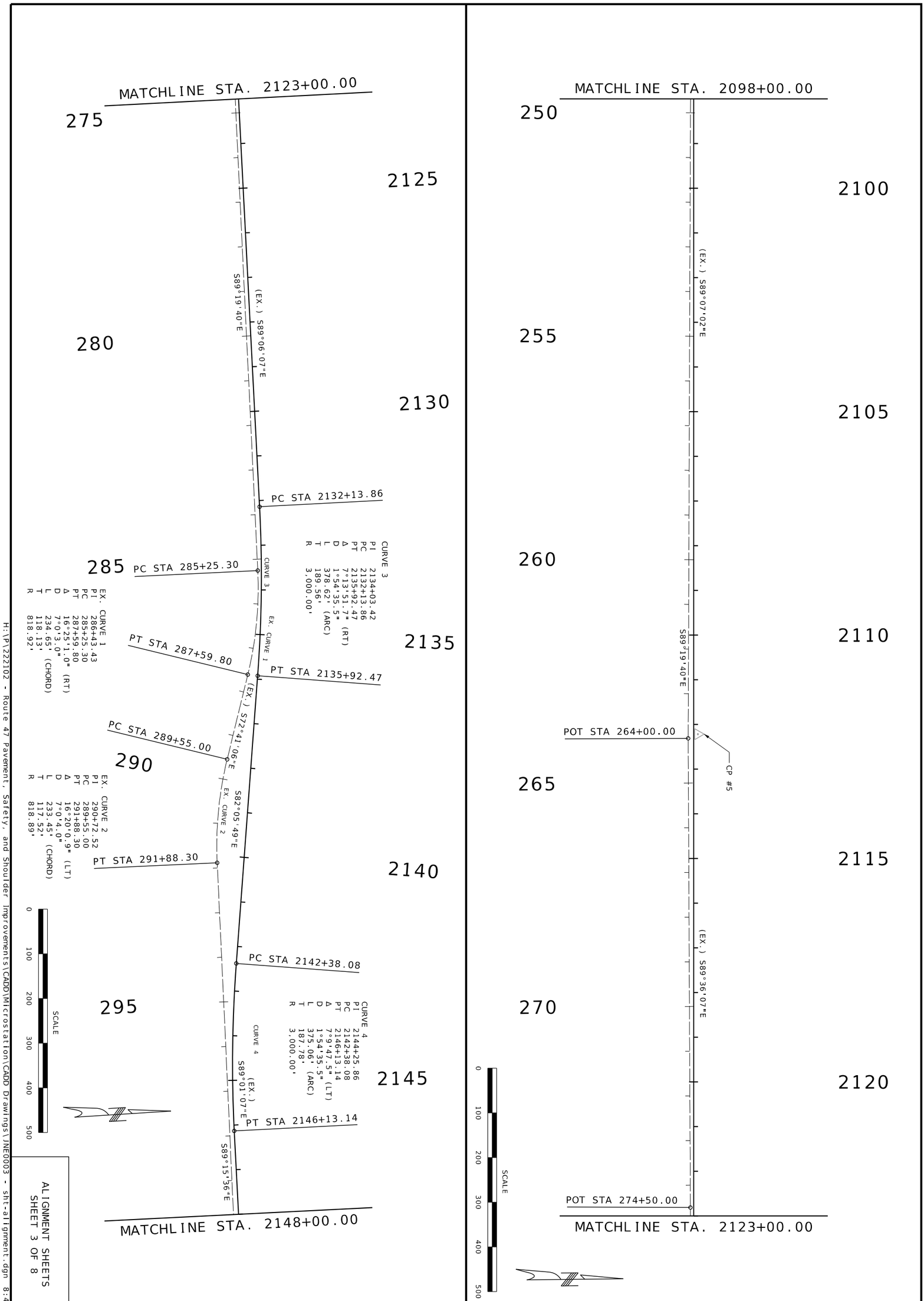

ALIGNMENT SHEETS
SHEET 3 OF 8

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MISSOURI DESIGN FIRM PE-001166

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
MoDOT
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DATE	DESCRIPTION

BRIDGE NO. -
PROJECT NO. -
CONTRACT ID. -
JOB NO. JNE0003
COUNTY LINCOLN
DISTRICT NE
SHEET NO. 104
ROUTE 47
STATE MO
DATE PREPARED 8/26/2025

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY

STATE OF MISSOURI
JEFFREY R. REHSING
NUMBER PE-2009012376
PROFESSIONAL ENGINEER

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

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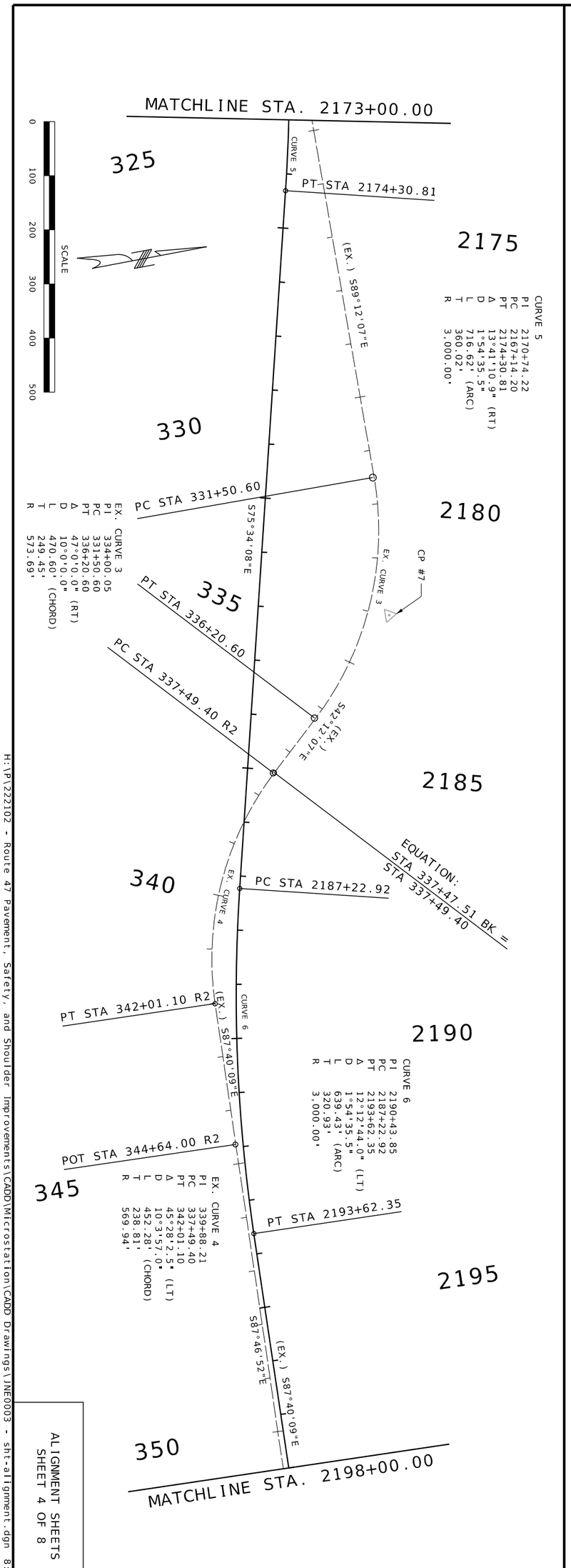
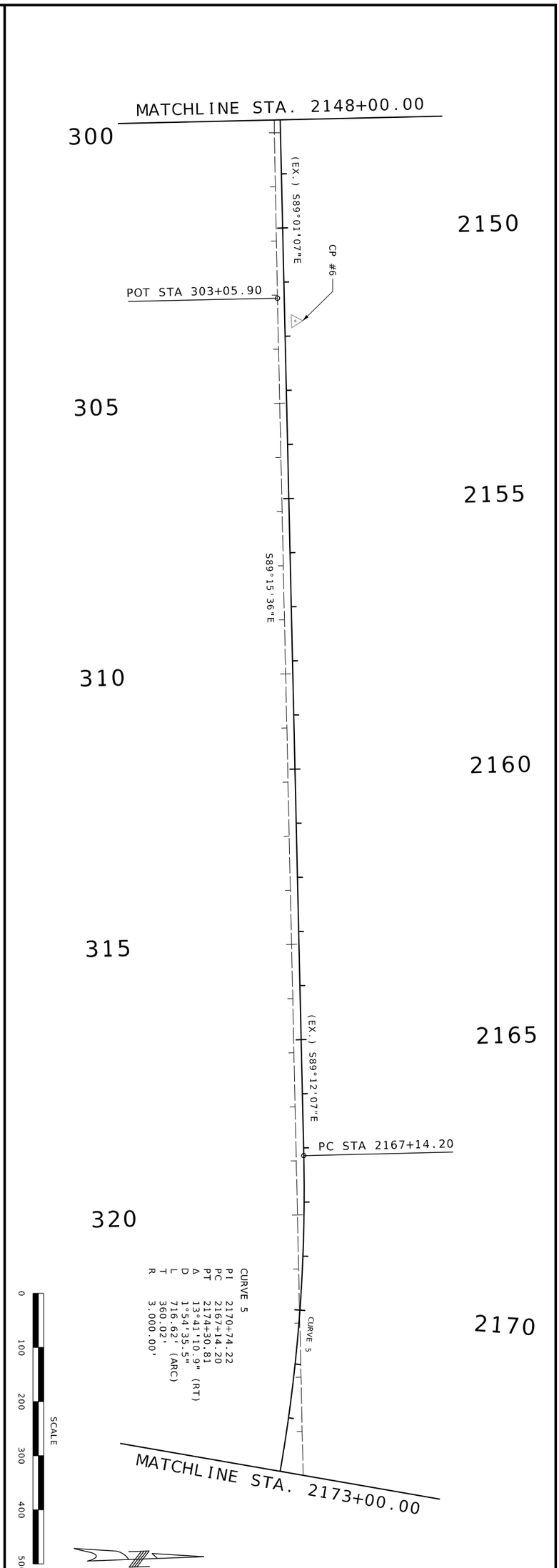


CURVE 5
PI 2170+74.22
PC 2167+14.20
PT 2174+30.81
Δ 13°41'10.9" (RT)
D 1°54'35.5"
L 716.62' (ARC)
T 360.02'
R 3,000.00'

EX. CURVE 3
PI 334+00.05
PC 331+50.60
PT 336+20.60
Δ 47°0'0.0" (RT)
D 10°0'0.0"
L 470.60' (CHORD)
T 249.45'
R 573.69'

CURVE 6
PI 2190+43.85
PC 2187+22.92
PT 2193+62.35
Δ 12°21'44.0" (LT)
D 1°54'35.5"
L 639.43' (ARC)
T 320.93'
R 3,000.00'

EX. CURVE 4
PI 339+88.21
PC 337+49.40
PT 342+01.10
Δ 45°28'2.5" (LT)
D 10°3'57.0"
L 452.28' (CHORD)
T 238.81'
R 569.94'



CURVE 5
PI 2170+74.22
PC 2167+14.20
PT 2174+30.81
Δ 13°41'10.9" (RT)
D 1°54'35.5"
L 716.62' (ARC)
T 360.02'
R 3,000.00'

ALIGNMENT SHEETS
SHEET 4 OF 8

OATES ASSOCIATES

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

DATE	DESCRIPTION

BRIDGE NO. -
PROJECT NO. -
CONTRACT ID. JNE0003
JOB NO. -
COUNTY LINCOLN
DISTRICT NE
ROUTE 47
SHEET NO. 105
STATE MO
DATE PREPARED 8/26/2025

THIS SHEET HAS BEEN SIGNED SEALED AND DATED ELECTRONICALLY

STATE OF MISSOURI
PROFESSIONAL ENGINEER
JEFFREY R. REISING
NUMBER PE-2009013376

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

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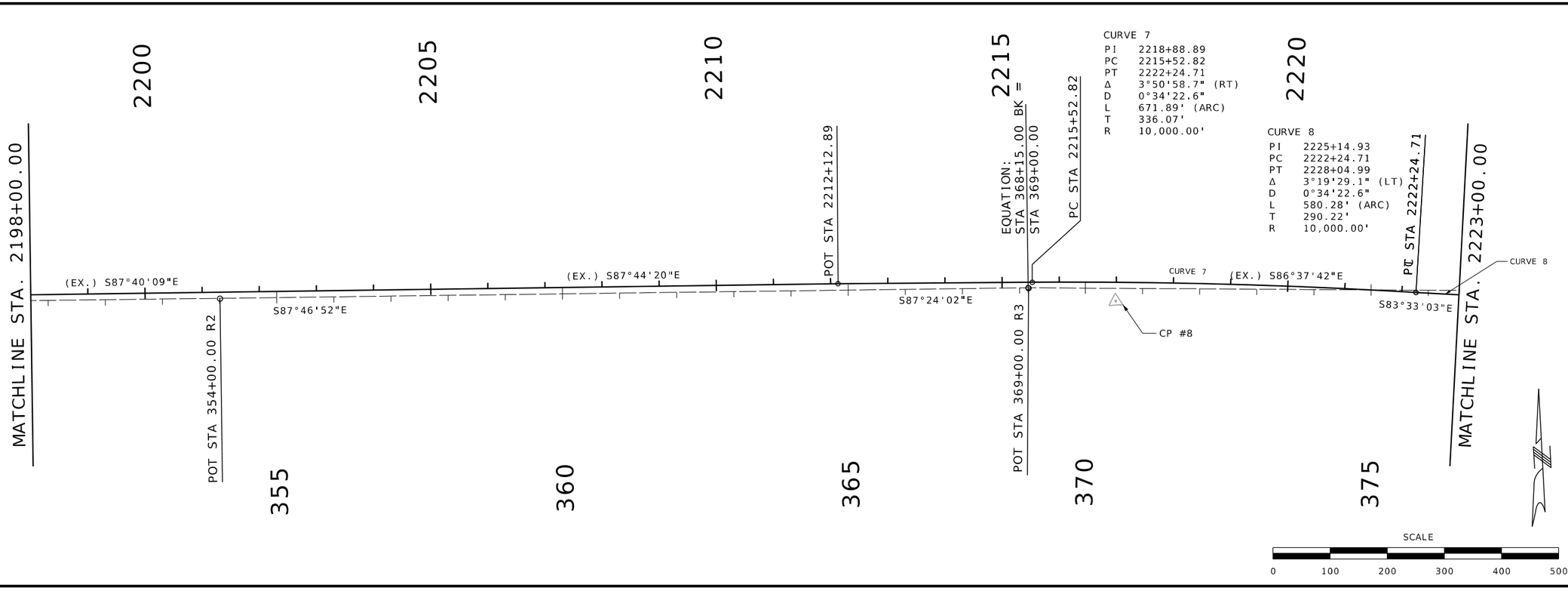

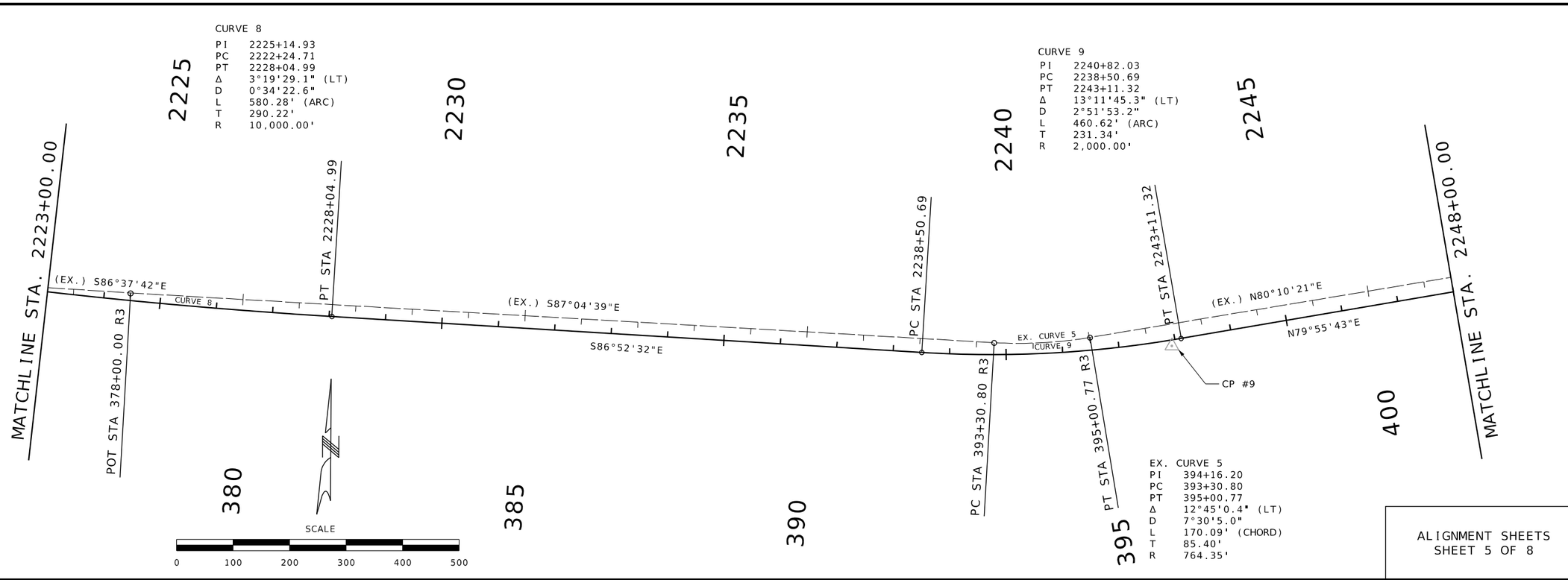

ALIGNMENT SHEETS
SHEET 5 OF 8

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

STATE OF MISSOURI
JEFFREY R. RENSING
NUMBER PE-2006012376
PROFESSIONAL ENGINEER

DATE PREPARED 8/26/2025

ROUTE	STATE
47	MO
DISTRICT	SHEET NO.
NE	106

COUNTY: LINCOLN
JOB NO.: JNE0003
CONTRACT ID.:
PROJECT NO.:
BRIDGE NO.:

DATE	DESCRIPTION
.	.

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

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105 WEST CAPITOL
JEFFERSON CITY, MO 65102
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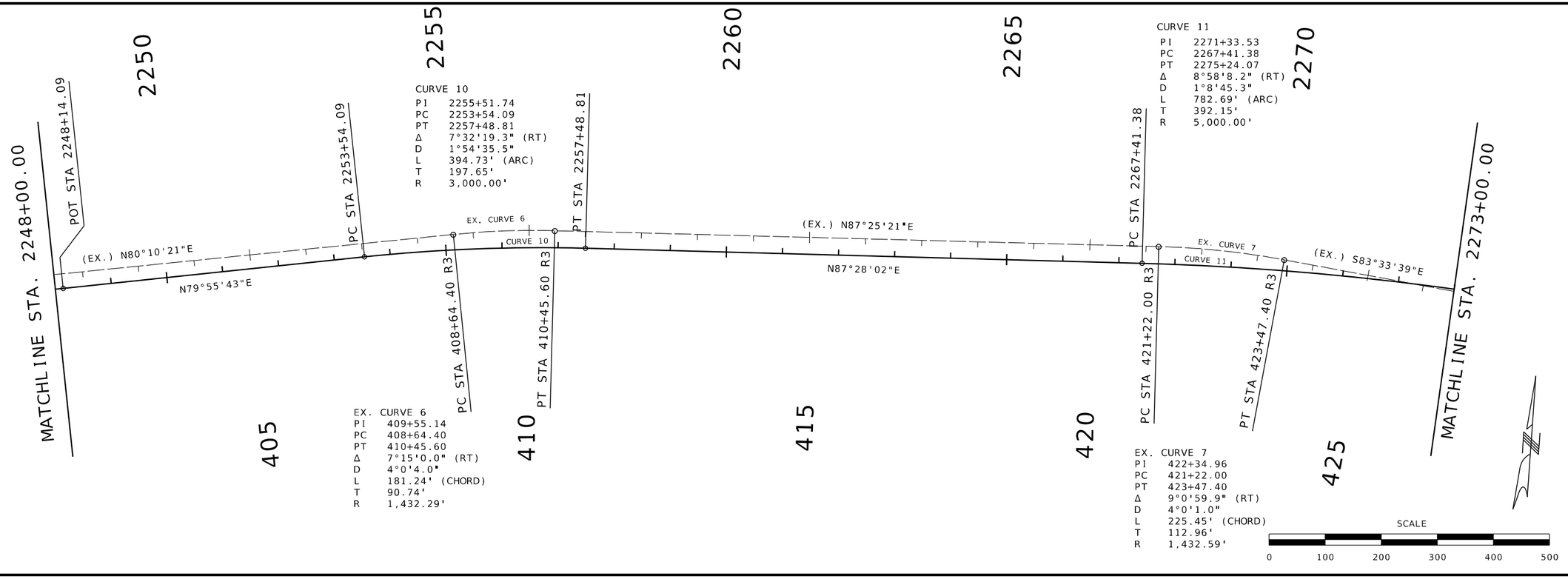

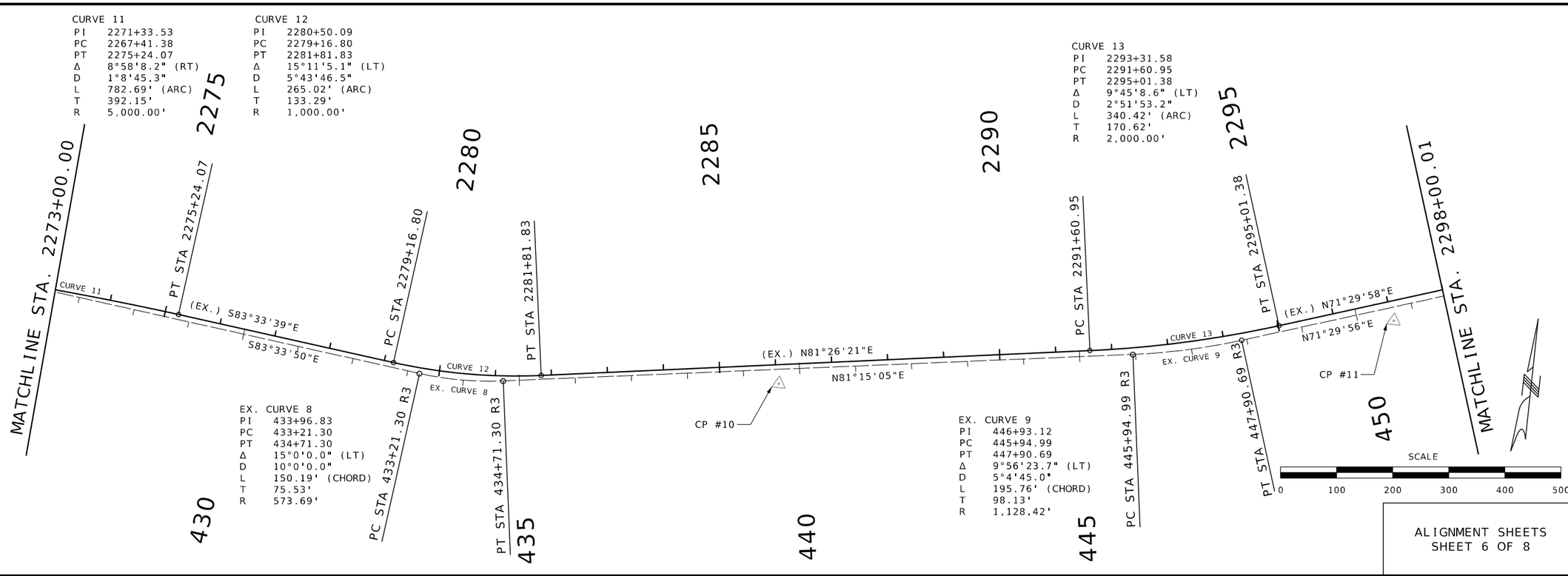

ALIGNMENT SHEETS
SHEET 6 OF 8

STATE OF MISSOURI
JEFFREY R. RENSING
NUMBER PE-2006012376
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED 8/26/2025

ROUTE	STATE
47	MO
DISTRICT	SHEET NO.
NE	107

COUNTY: LINCOLN
JOB NO.: JNE0003
CONTRACT ID.:
PROJECT NO.:
BRIDGE NO.:

DESCRIPTION	DATE

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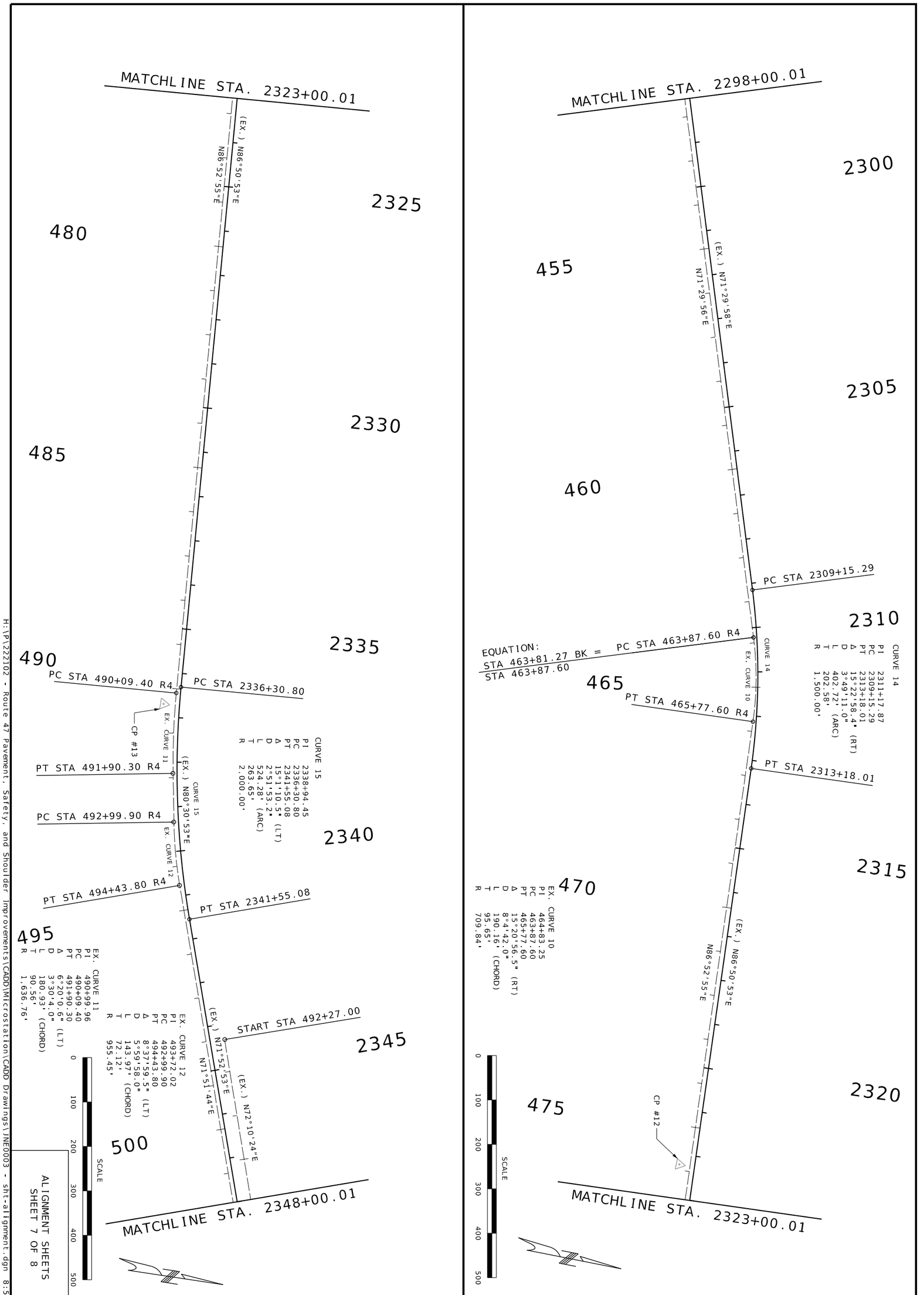

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MISSOURI DESIGN FIRM PE-001166

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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105 WEST CAPITOL
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DATE	DESCRIPTION
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BRIDGE NO. -

PROJECT NO. -

CONTRACT ID. JNE0003

JOB NO. -

COUNTY LINCOLN

DISTRICT NE

ROUTE 47

SHEET NO. 108

STATE MO

DATE PREPARED 8/26/2025

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY

STATE OF MISSOURI
JEFFREY REISING
NUMBER PE-2009013376
PROFESSIONAL ENGINEER

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

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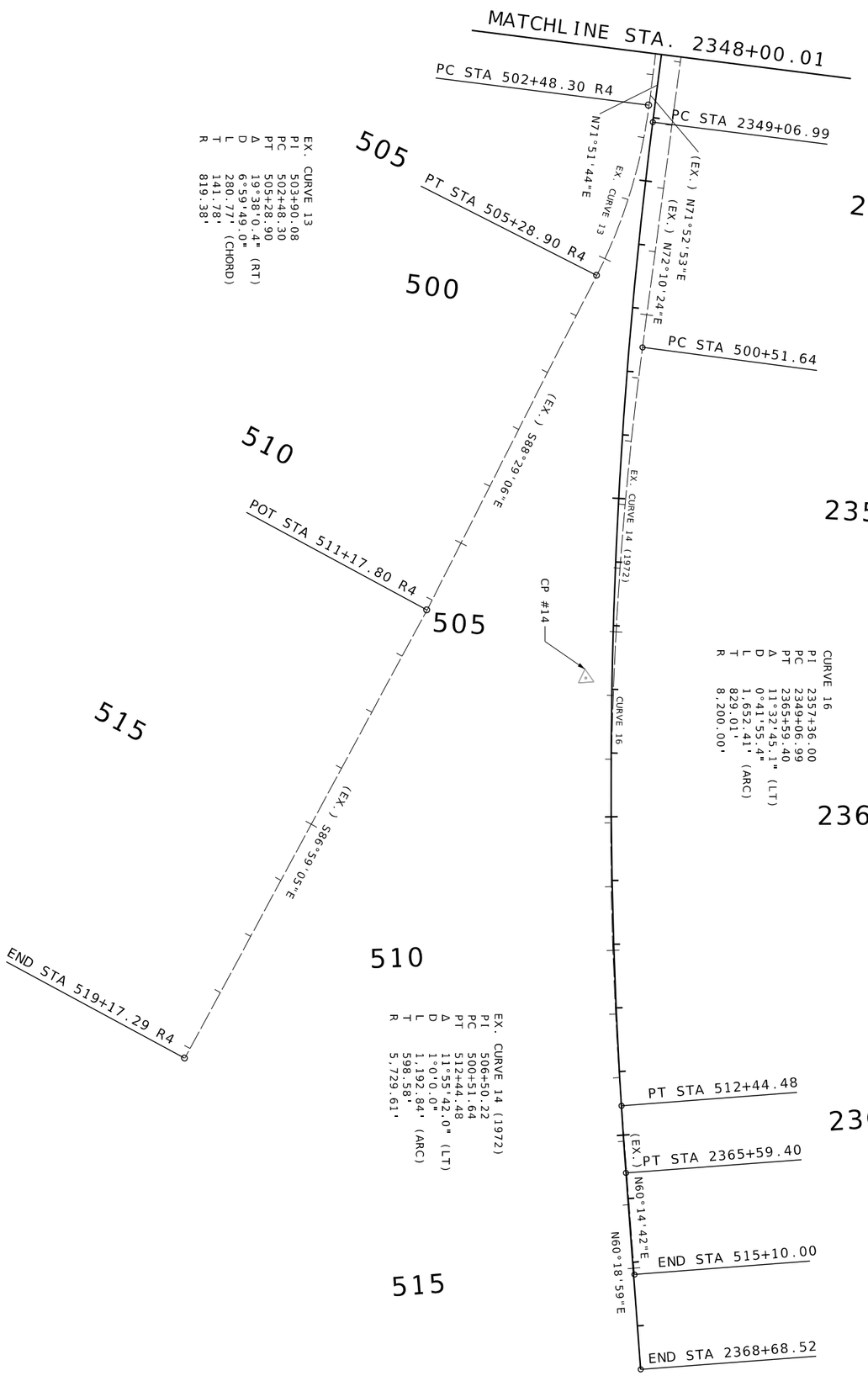

ALIGNMENT SHEETS
SHEET 8 OF 8

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

DATE	DESCRIPTION
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BRIDGE NO. .
PROJECT NO. .
CONTRACT ID. JNE0003
JOB NO. L INCOLN
COUNTY NE
DISTRICT 47
ROUTE MO
STATE
SHEET NO. 109
DATE PREPARED 8/26/2025

THIS SHEET HAS BEEN SIGNED SEALED AND DATED ELECTRONICALLY

STATE OF MISSOURI
JEFFREY R. REISING
NUMBER PE-2009012376
PROFESSIONAL ENGINEER

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

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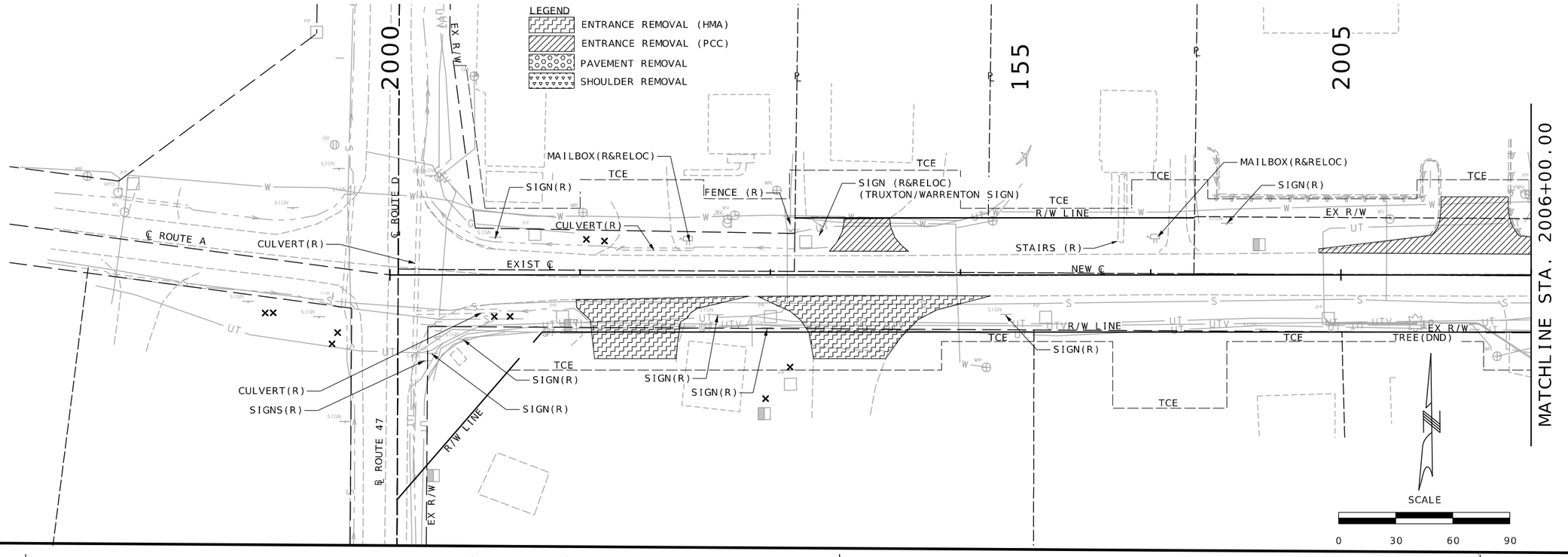

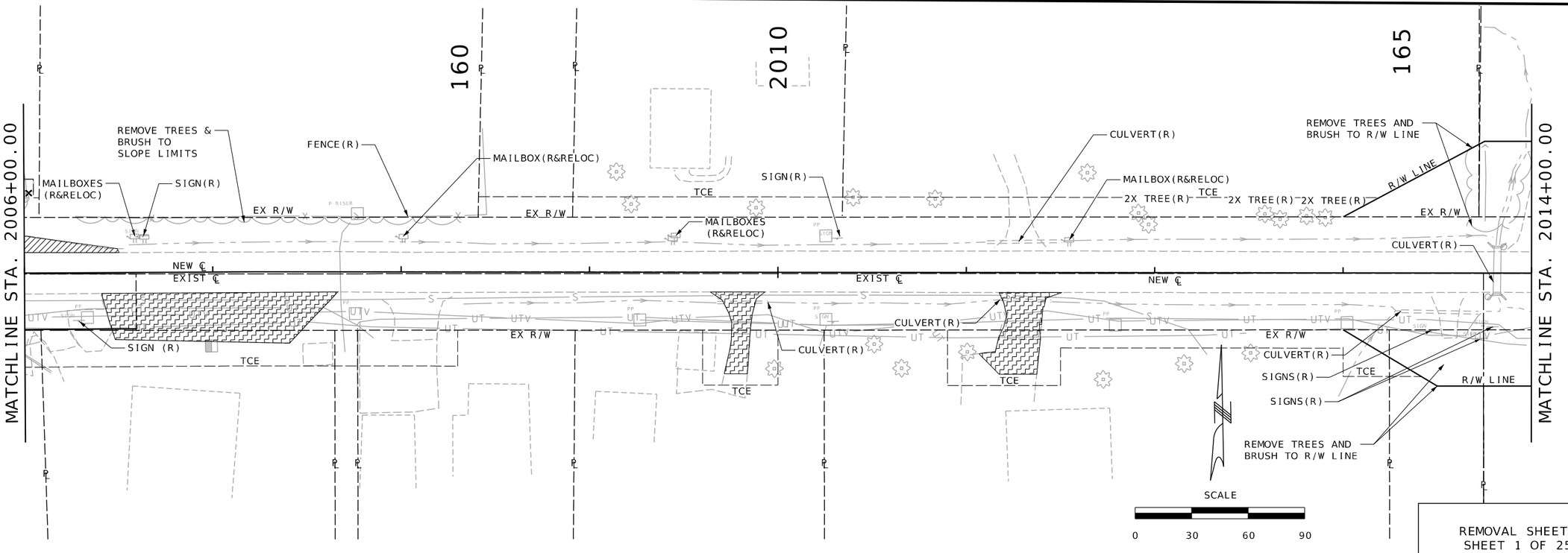

REMOVAL SHEETS
SHEET 1 OF 25

STATE OF MISSOURI
JEFFREY R. RENSING
NUMBER PE-2006012376
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED 8/26/2025

ROUTE	STATE
47	MO
DISTRICT	SHEET NO.
NE	110

COUNTY: LINCOLN
JOB NO.: JNE0003
CONTRACT ID.: .
PROJECT NO.: .
BRIDGE NO.: .

DATE	DESCRIPTION
.	.

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MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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MISSOURI DESIGN FIRM PE-001166

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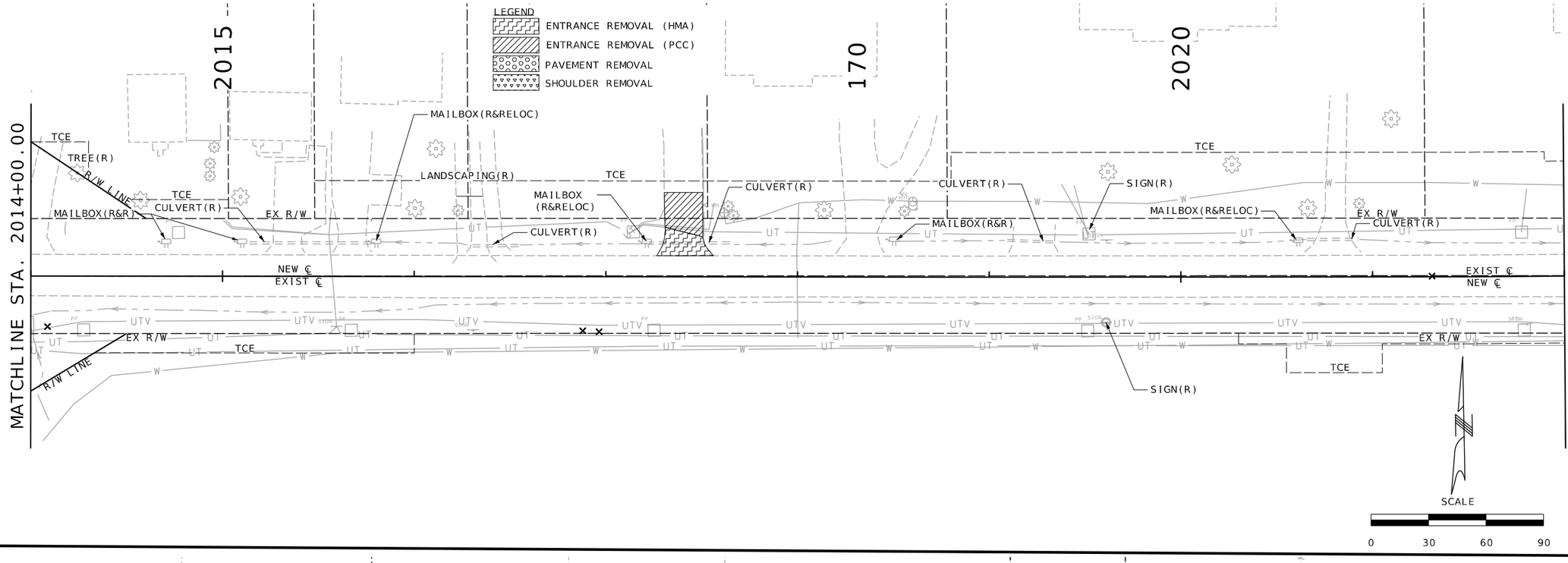

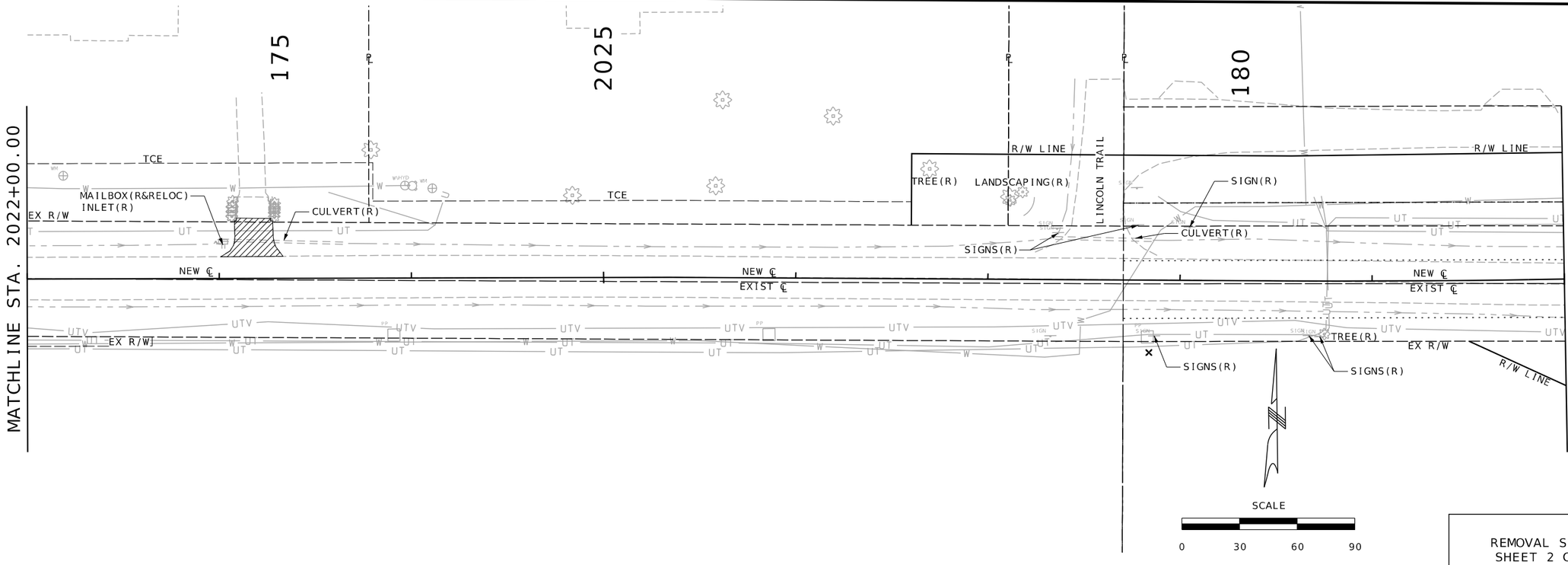

REMOVAL SHEETS
SHEET 2 OF 25

STATE OF MISSOURI
JEFFREY R. RENSING
NUMBER PE-2006012376
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED 8/26/2025

ROUTE	STATE
47	MO
DISTRICT	SHEET NO.
NE	111

COUNTY LINCOLN

JOB NO. JNE0003

CONTRACT ID. .

PROJECT NO. .

BRIDGE NO. .

DESCRIPTION	DATE
.	.

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

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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JEFFERSON CITY, MO 65102
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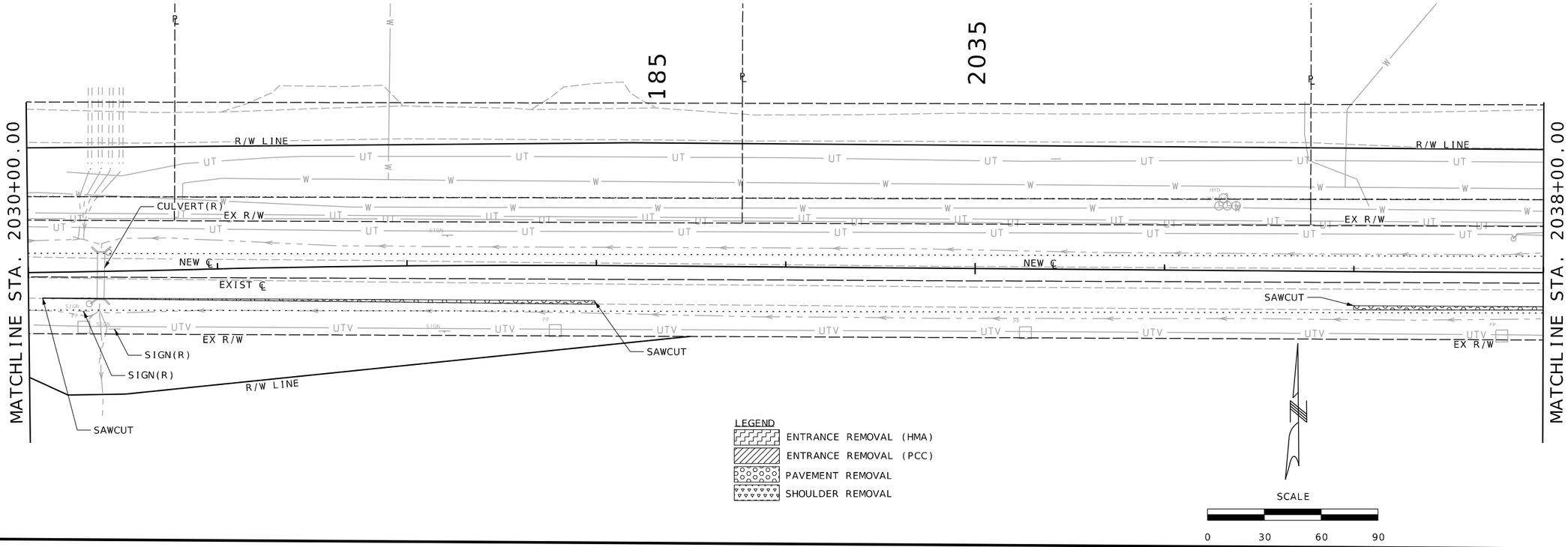
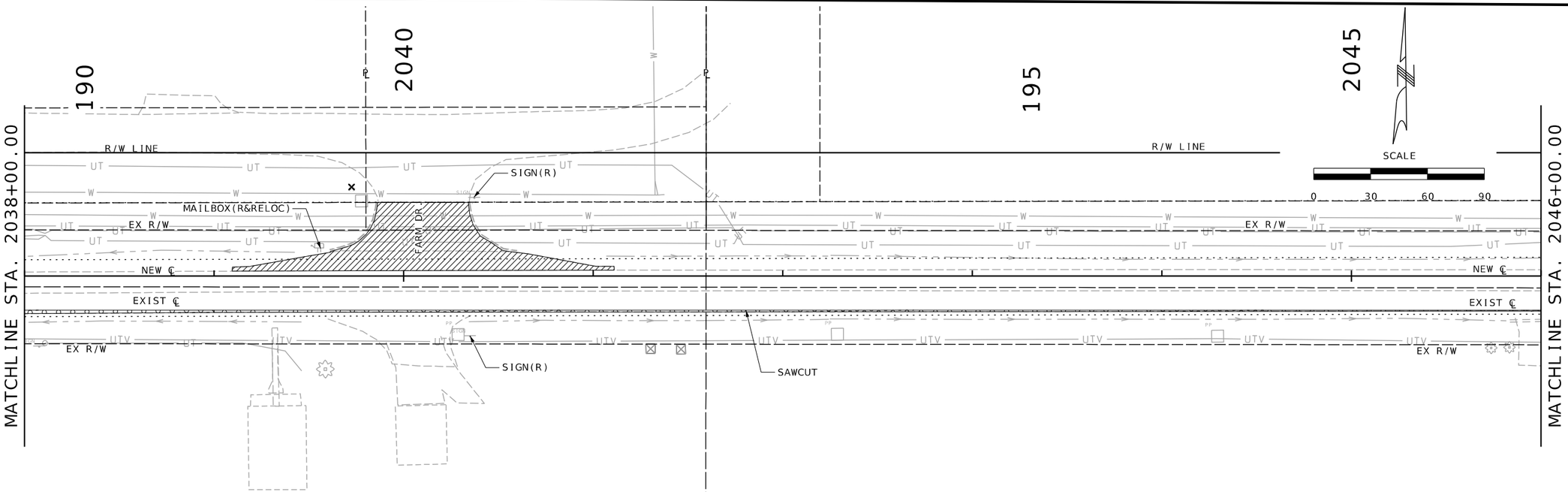
MISSOURI DESIGN FIRM PE-001166





REMOVAL SHEETS
SHEET 3 OF 25

STATE OF MISSOURI
JEFFREY R. RENSING
NUMBER PE-2006012376
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

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

DATE PREPARED	
8/26/2025	
ROUTE	STATE
47	MO
DISTRICT	SHEET NO.
NE	112
COUNTY	
LINCOLN	
JOB NO.	
JNE0003	
CONTRACT ID.	
.	
PROJECT NO.	
.	
BRIDGE NO.	
.	

DESCRIPTION	DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

105 WEST CAPITOL
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OATES ASSOCIATES

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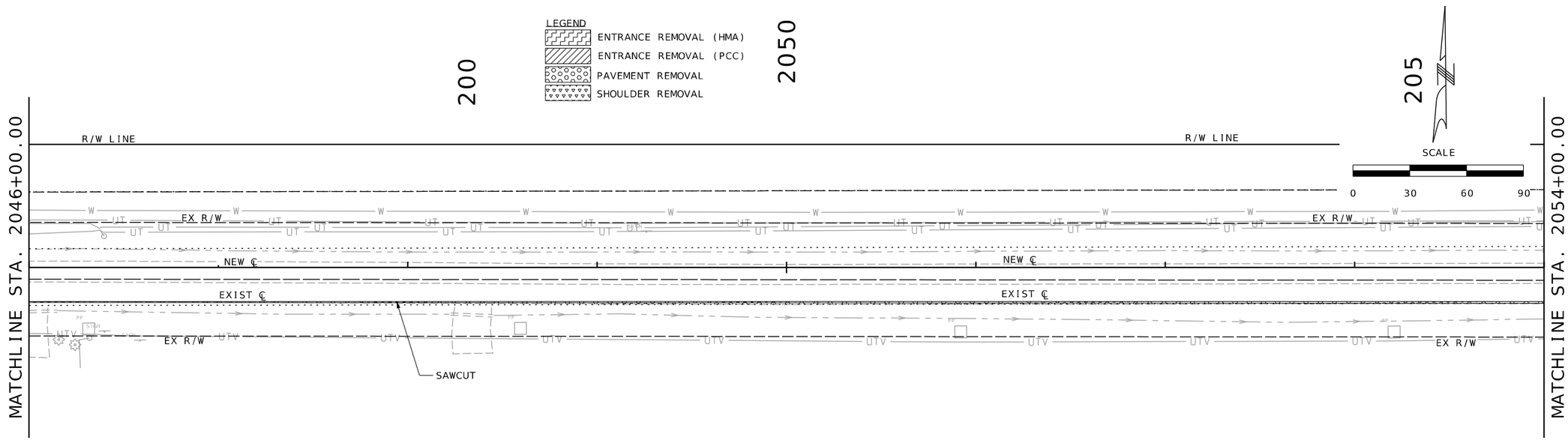
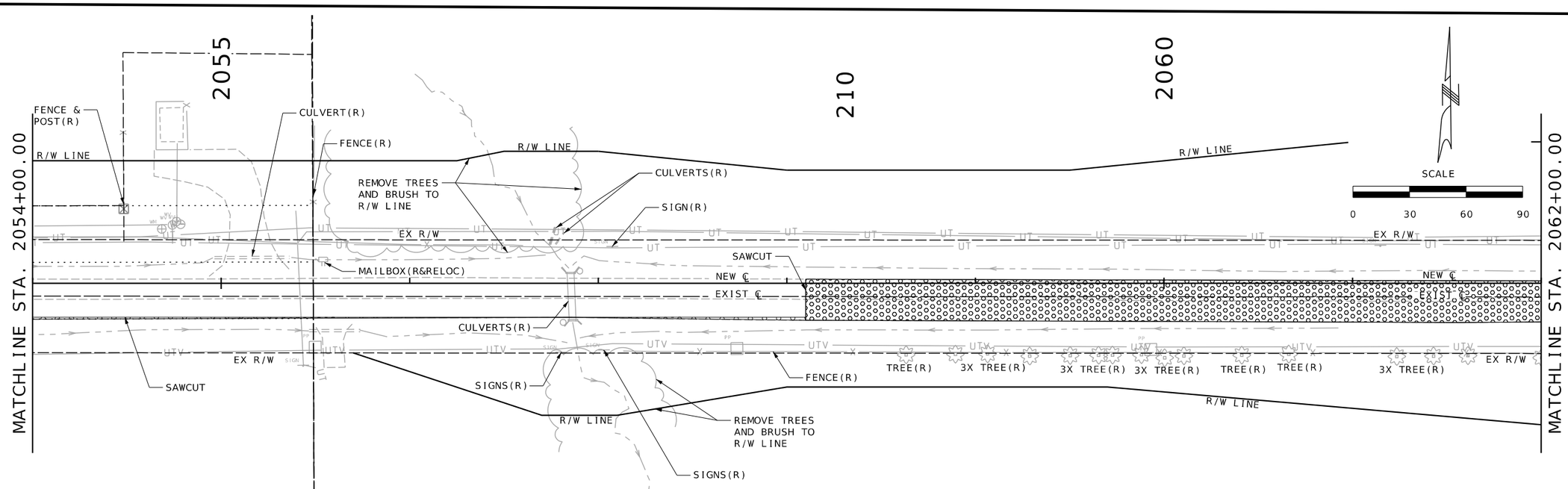
MISSOURI DESIGN FIRM PE-001166





REMOVAL SHEETS
SHEET 4 OF 25

STATE OF MISSOURI
JEFFREY R. RENSING
NUMBER PE-2006012376
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED 8/26/2025

ROUTE	STATE
47	MO
DISTRICT	SHEET NO.
NE	113

COUNTY: LINCOLN
JOB NO.: JNE0003
CONTRACT ID.:
PROJECT NO.:
BRIDGE NO.:

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

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
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OATES ASSOCIATES

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MISSOURI DESIGN FIRM PE-001166

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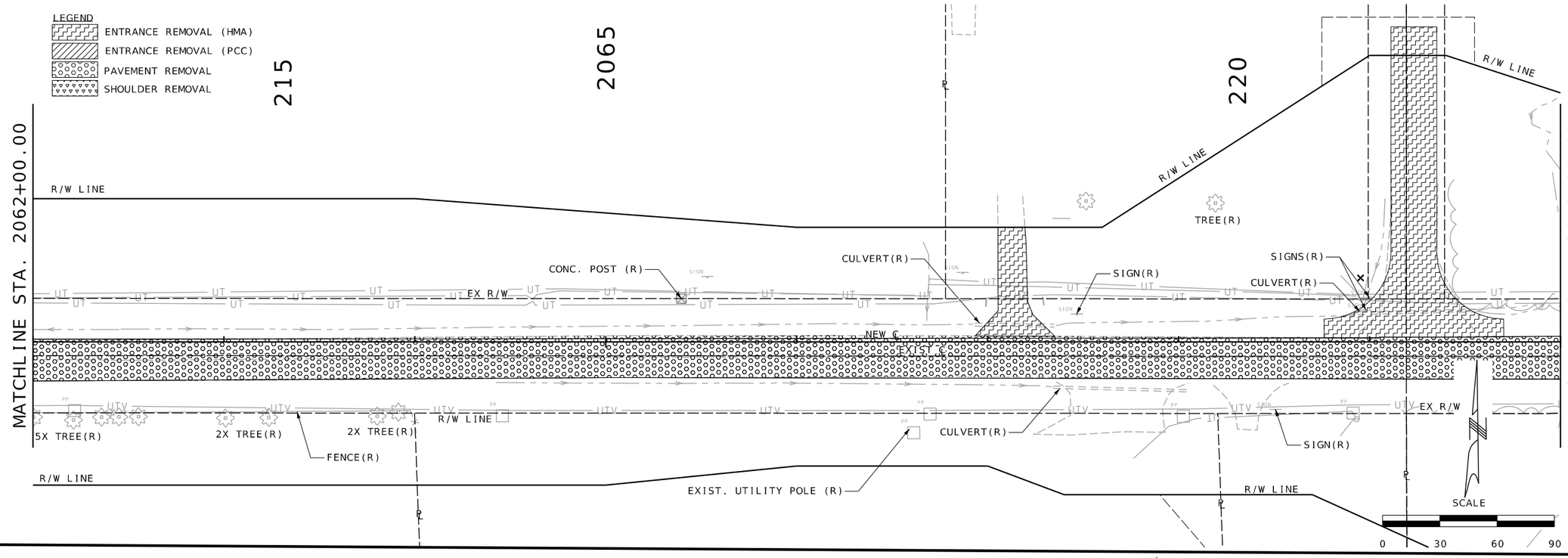

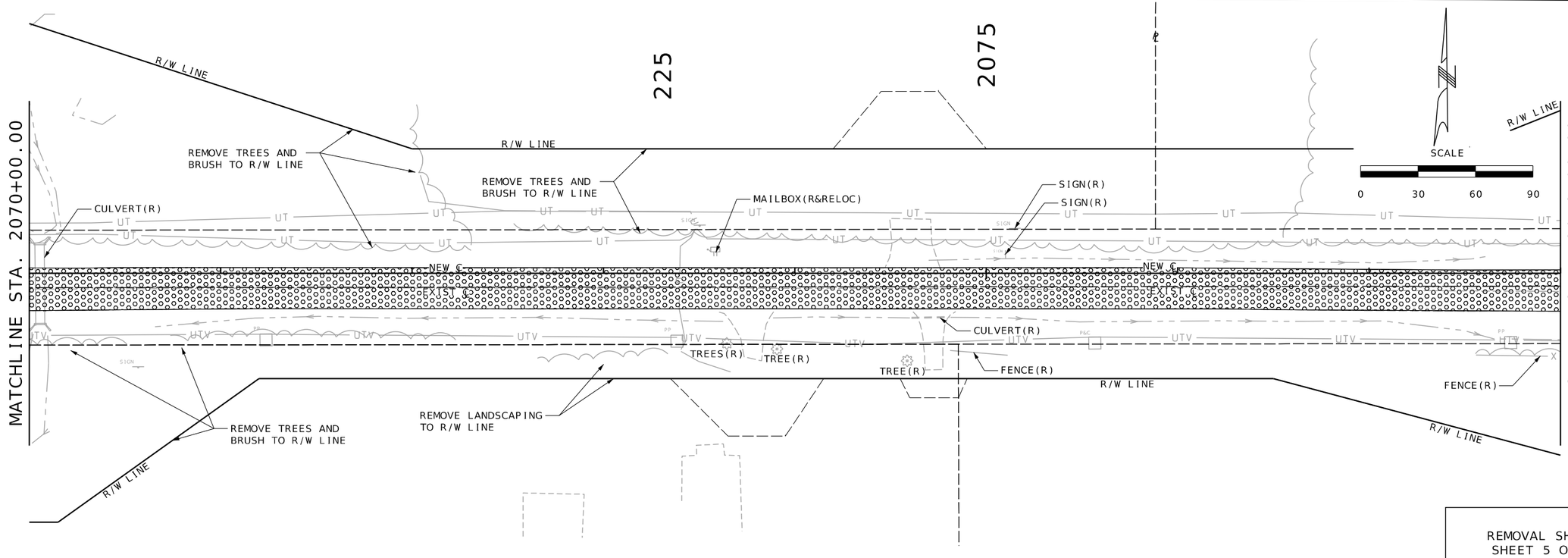

REMOVAL SHEETS
SHEET 5 OF 25

STATE OF MISSOURI
JEFFREY R. RENSING
NUMBER PE-2006012376
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED 8/26/2025

ROUTE	STATE
47	MO
DISTRICT	SHEET NO.
NE	114

COUNTY: LINCOLN
JOB NO.: JNE0003
CONTRACT ID.:
PROJECT NO.:
BRIDGE NO.:

DESCRIPTION	DATE

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

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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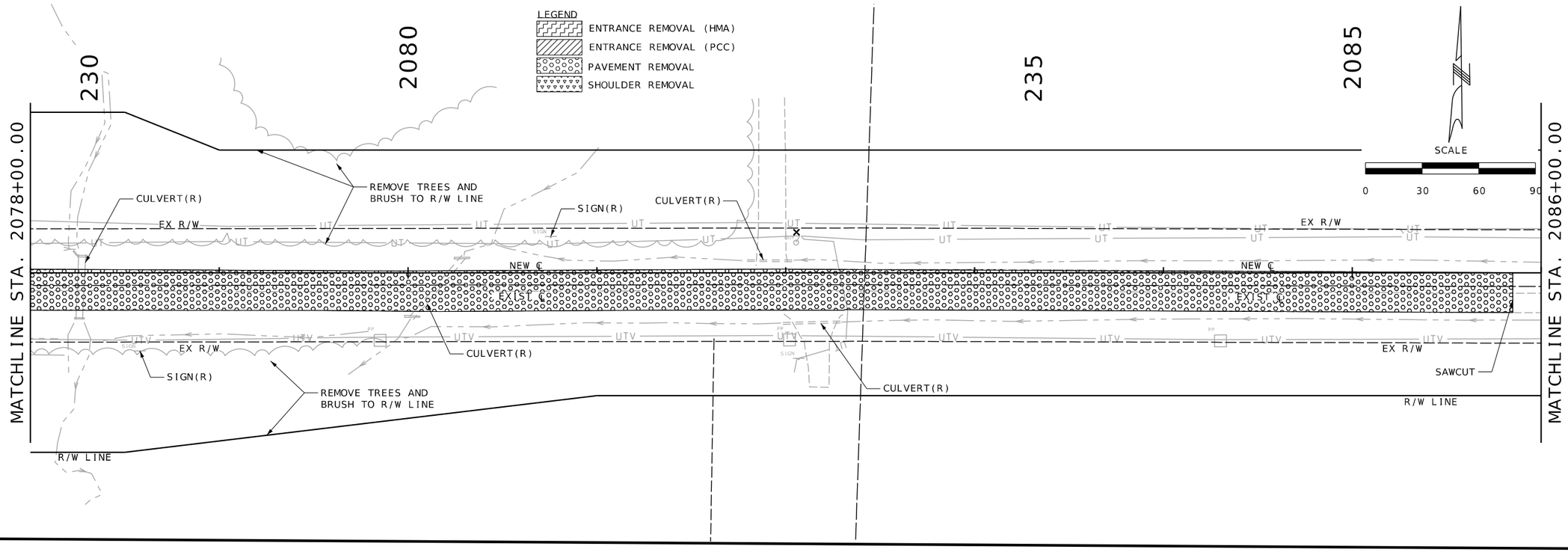
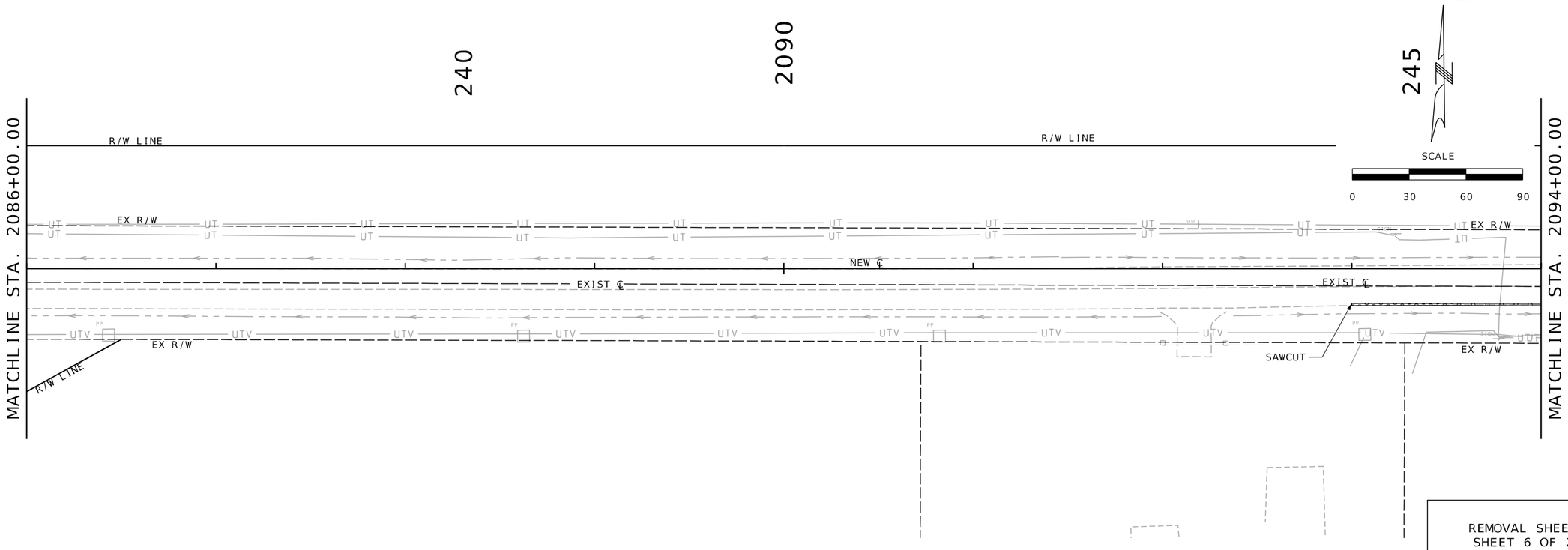
MISSOURI DESIGN FIRM PE-001166

H:\P\222102 - Route 47 Pavement, Safety, and Shoulder Improvements\CADD\Microstation\CADD Drawings\JNE0003 - sht-Removals.dgn 9:27:53 AM 8/26/2025





REMOVAL SHEETS
SHEET 6 OF 25

STATE OF MISSOURI
JEFFREY R. RENSING
NUMBER PE-2006012376
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED 8/26/2025

ROUTE	STATE
47	MO
DISTRICT	SHEET NO.
NE	115

COUNTY LINCOLN

JOB NO. JNE0003

CONTRACT ID. .

PROJECT NO. .

BRIDGE NO. .

DESCRIPTION	DATE
.	.

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

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

MoDOT

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

OATES ASSOCIATES

Collinsville
100 Lamer Court, Suite 1
Collinsville, IL 62234
618.345.2200

Belleville
1 South Church, Suite 200
Belleville, IL 62220
618.416.4868

St. Louis
720 Olive, Suite 700
St. Louis, MO 63101
314.588.8381

St. Charles
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St. Charles, MO 63301
636.493.6277

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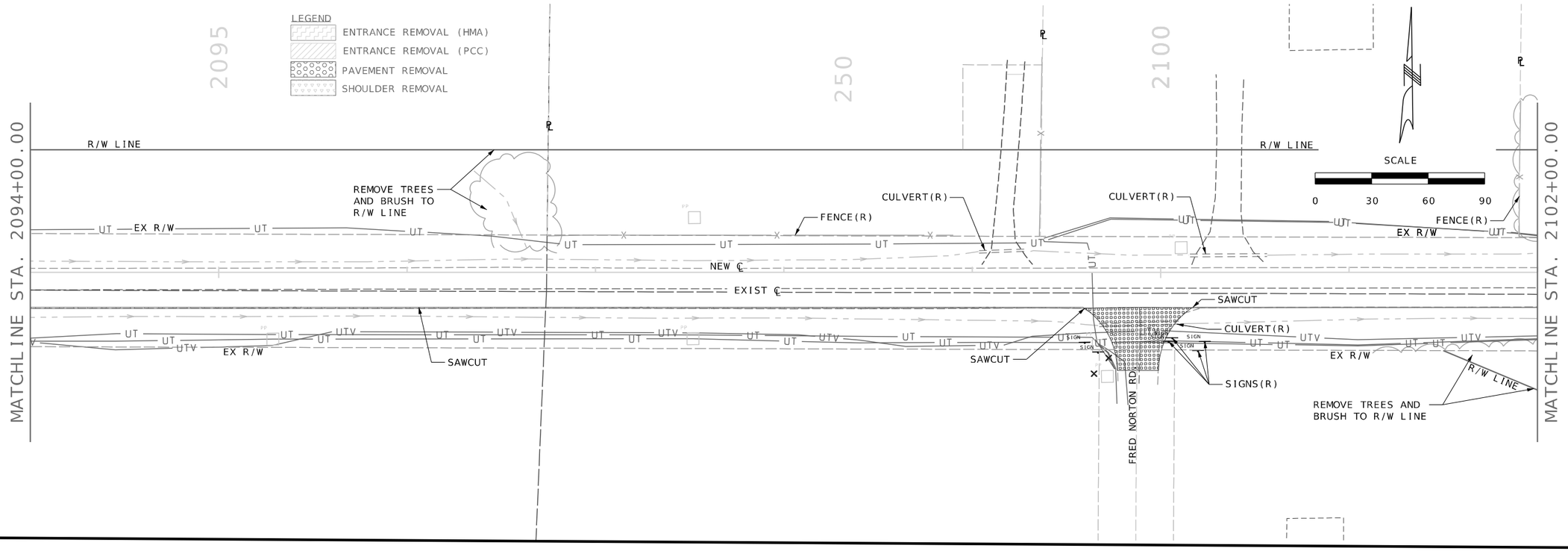
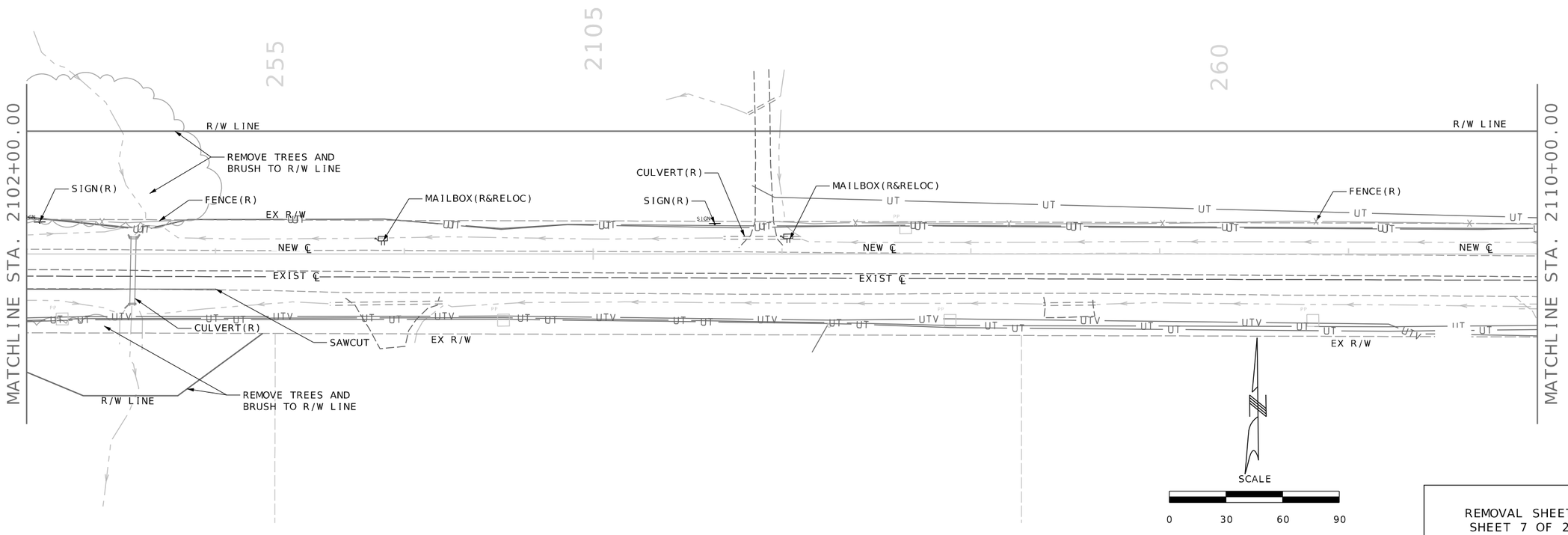
MISSOURI DESIGN FIRM PE-001166

H:\P\222102 - Route 47 Pavement, Safety, and Shoulder Improvements\CADD\Microstation\CADD Drawings\JNE0003 - sht-Removals.dgn 9:28:32 AM 8/26/2025





REMOVAL SHEETS
SHEET 7 OF 25

STATE OF MISSOURI
JEFFREY R. RENSING
NUMBER PE-2006012376
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED 8/26/2025

ROUTE	STATE
47	MO
DISTRICT	SHEET NO.
NE	116

COUNTY: LINCOLN
JOB NO.: JNE0003
CONTRACT ID.:
PROJECT NO.:
BRIDGE NO.:

DESCRIPTION	DATE

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

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
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MISSOURI DESIGN FIRM PE-001166

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720 Olive, Suite 700
St. Louis, MO 63101
314.588.8381

St. Charles
820 South Main, Suite 309
St. Charles, MO 63301
636.493.6277

Collinsville
100 Lamer Court, Suite 1
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618.345.2200

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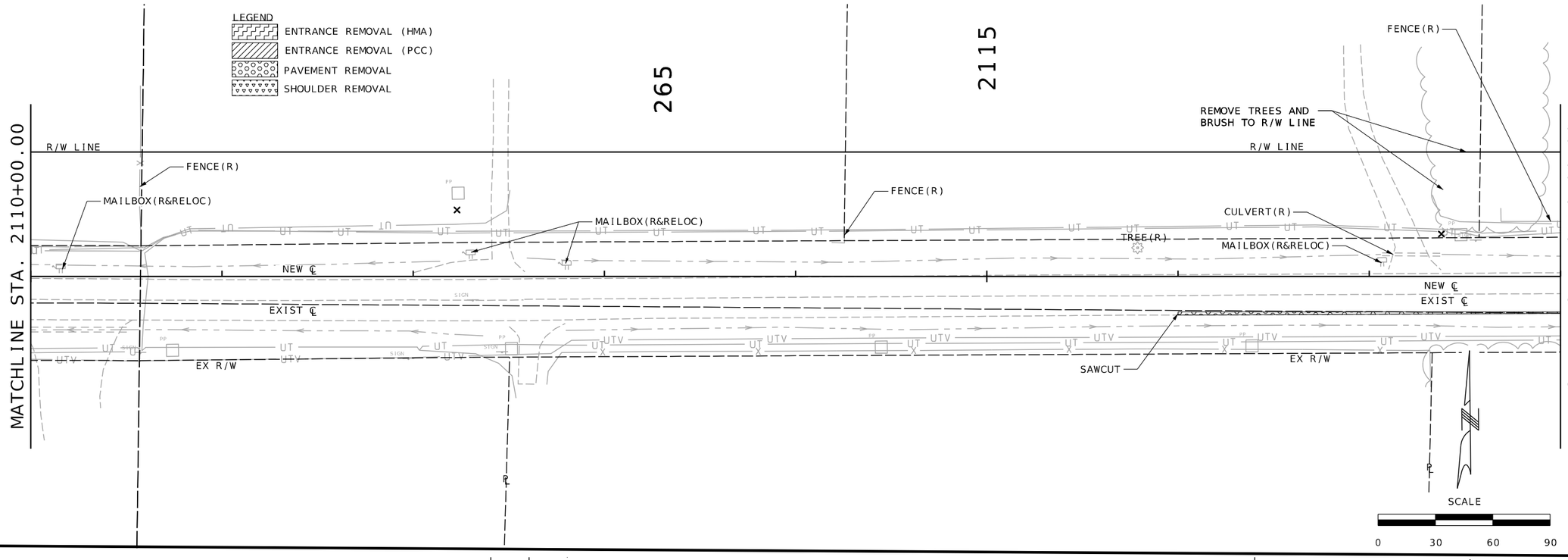
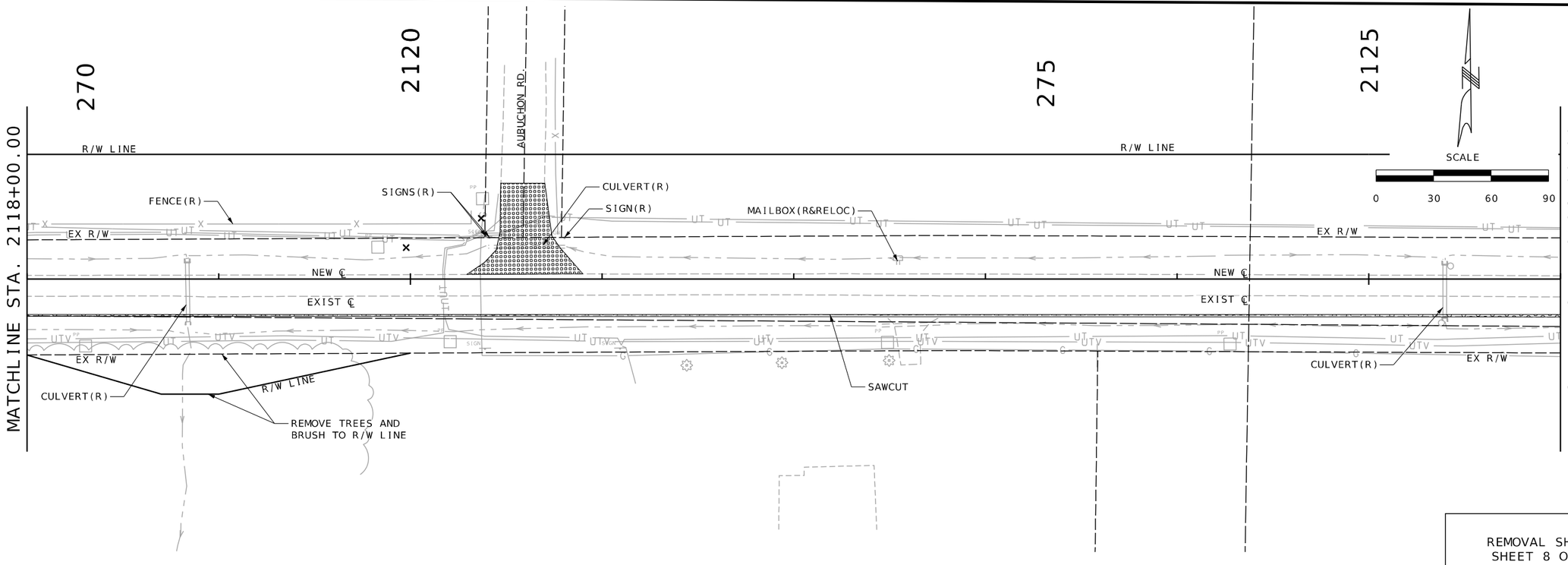
H:\P\222102 - Route 47 Pavement, Safety, and Shoulder Improvements\CADD\Microstation\CADD Drawings\JNE0003 - sht-Removals.dgn 3:30:04 PM 8/26/2025





REMOVAL SHEETS
SHEET 8 OF 25

STATE OF MISSOURI
JEFFREY R. RENSING
NUMBER PE-2006012376
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED 8/26/2025

ROUTE	STATE
47	MO
DISTRICT	SHEET NO.
NE	117

COUNTY LINCOLN
JOB NO. JNE0003
CONTRACT ID. .
PROJECT NO. .
BRIDGE NO. .

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

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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MISSOURI DESIGN FIRM PE-001166

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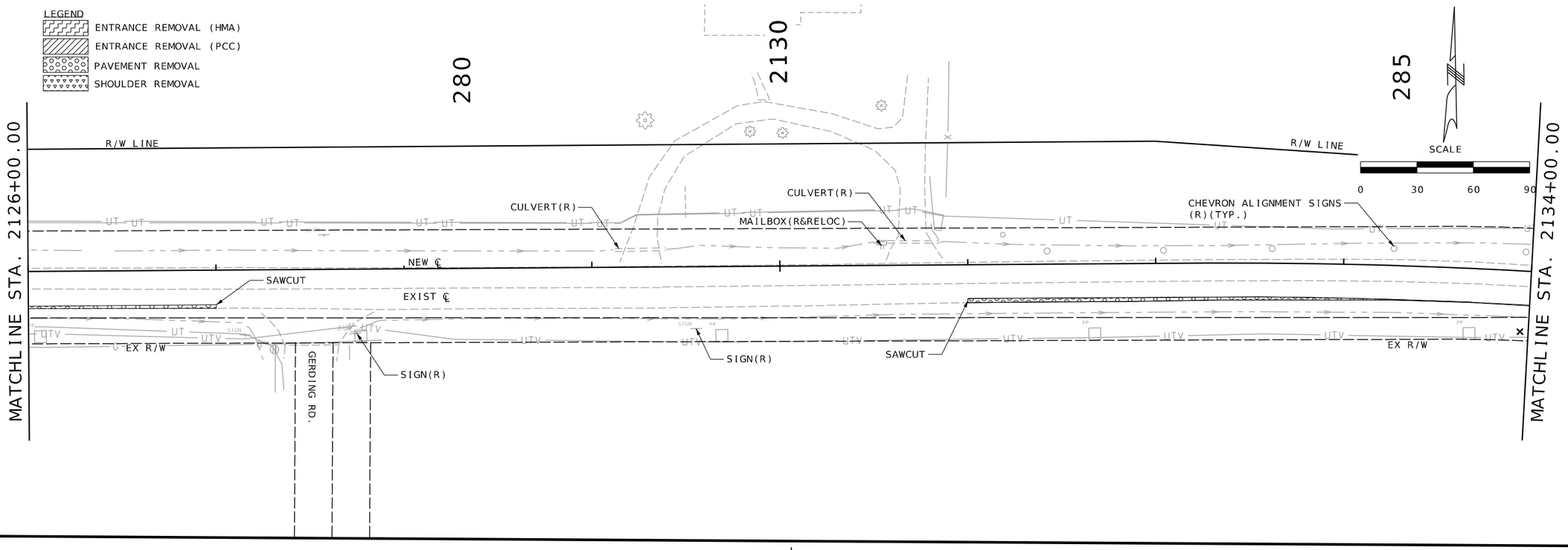

REMOVAL SHEETS
SHEET 9 OF 25

STATE OF MISSOURI
JEFFREY R. RENSING
NUMBER PE-2006012376
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

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

DATE PREPARED	
8/26/2025	
ROUTE	STATE
47	MO
DISTRICT	SHEET NO.
NE	118

COUNTY: LINCOLN
JOB NO.: JNE0003
CONTRACT ID.: .
PROJECT NO.: .
BRIDGE NO.: .

DESCRIPTION	DATE
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MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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LEGEND
ENTRANCE REMOVAL (HMA)
ENTRANCE REMOVAL (PCC)
PAVEMENT REMOVAL
SHOULDER REMOVAL

MATCHLINE STA. 2142+00.00

2145

295

300

MATCHLINE STA. 2150+00.00

R/W LINE

R/W LINE

CULVERT(R)

CONCRETE POST(R)

FENCE POSTS & FENCE(R)

EX R/W

MAILBOXES(R&RELOC)

SIGN(R)

EX R/W

+15.00

NEW ℄

SAWCUT

EXIST ℄

EX R/W

EX R/W

CULVERT(R)

SCALE

0 30 60 90

MATCHLINE STA. 2150+00.00

2155

305

MATCHLINE STA. 2158+00.00

R/W LINE

R/W LINE

SCALE

0 30 60 90

EX R/W

EX R/W

NEW ℄

NEW ℄

EXIST ℄

EX R/W

EX R/W

REMOVAL SHEETS
SHEET 10 OF 25

STATE OF MISSOURI
JEFFREY R. RENSING
NUMBER PE-2006012376
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED
8/26/2025

ROUTE	STATE
47	MO
DISTRICT	SHEET NO.
NE	119

COUNTY
LINCOLN

JOB NO.
JNE0003

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

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MISSOURI DESIGN FIRM PE-001166

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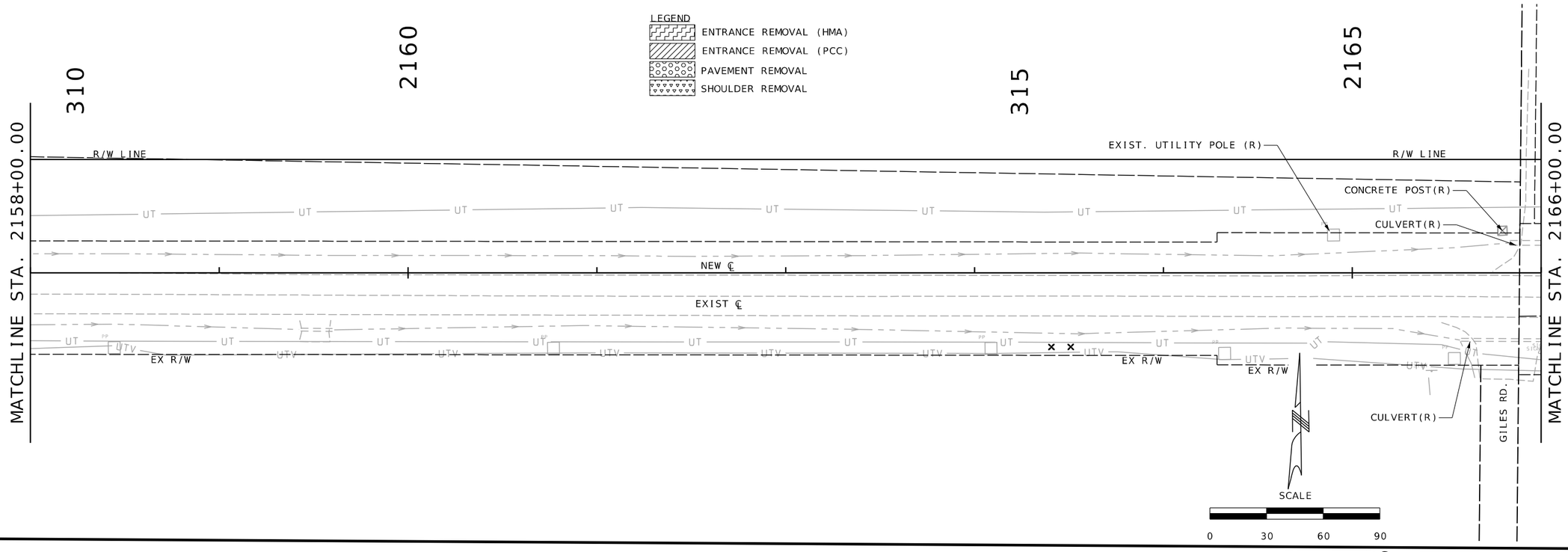

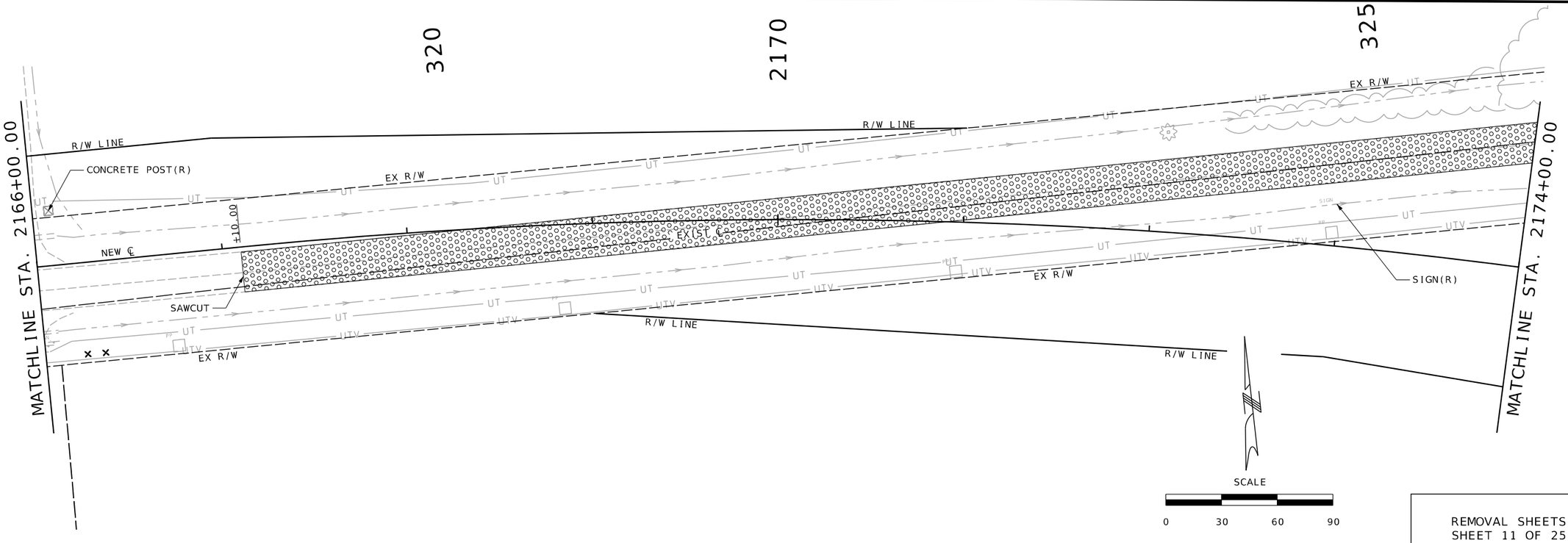

REMOVAL SHEETS
SHEET 11 OF 25

STATE OF MISSOURI
JEFFREY R. RENSING
NUMBER PE-2006012376
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED 8/26/2025

ROUTE	STATE
47	MO
DISTRICT	SHEET NO.
NE	120

COUNTY: LINCOLN
JOB NO.: JNE0003
CONTRACT ID.:
PROJECT NO.:
BRIDGE NO.:

DESCRIPTION	DATE

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

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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MISSOURI DESIGN FIRM PE-001166

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LEGEND

- ENTRANCE REMOVAL (HMA)
- ENTRANCE REMOVAL (PCC)
- PAVEMENT REMOVAL
- SHOULDER REMOVAL

MATCHLINE STA. 2174+00.00

2175

REMOVE TREES AND BRUSH TO R/W LINE

BOX CULVERT(R)

SIGN(R)

SIGN(R)

NEW ℄

2180

SIGN(R)

SIGN(R)

SIGN(R)

SIGN(R)

MATCHLINE STA. 2182+00.00

SCALE

0 30 60 90

REMOVAL SHEETS
SHEET 12 OF 25

STATE OF MISSOURI
JEFFREY R. RENSING
NUMBER PE-2006012376
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

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

DATE PREPARED	
8/26/2025	
ROUTE	STATE
47	MO
DISTRICT	SHEET NO.
NE	121

COUNTY
LINCOLN

JOB NO.
JNE0003

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

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

OATES ASSOCIATES

Collinsville
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Collinsville, IL 62234
618.345.2200

Belleville
1 South Church, Suite 200
Belleville, IL 62220
618.416.6688

St. Louis
720 Olive, Suite 700
St. Louis, MO 63101
314.588.8881

St. Charles
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MISSOURI DESIGN FIRM PE-001166

H:\P\222102 - Route 47 Pavement, Safety, and Shoulder Improvements\CADD\Microstation\CADD Drawings\JNE0003 - sht-Removals.dgn 9:33:24 AM 8/26/2025

LEGEND

- ENTRANCE REMOVAL (HMA)
- ENTRANCE REMOVAL (PCC)
- PAVEMENT REMOVAL
- SHOULDER REMOVAL

SCALE

0 30 60 90

MATCHLINE STA. 2182+00.00

MATCHLINE STA. 2190+00.00

R/W LINE

NEW ℄

EXIST. ℄

PC STA 2187+22.92

2185

2190

SIGN(R)

CHEVRON ALIGNMENT SIGN (R)(TYP.)

CULVERT(R)

CHEVRON ALIGNMENT SIGN (R) (TYP.)

REMOVE TREES AND BRUSH TO R/W LINE

UT

UTV

REMOVAL SHEETS
SHEET 13 OF 25

STATE OF MISSOURI
JEFFREY R. RENSING
NUMBER PE-2006012376
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

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

DATE PREPARED
8/26/2025

ROUTE	STATE
47	MO
DISTRICT	SHEET NO.
NE	122

COUNTY
LINCOLN

JOB NO.
JNE0003

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

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

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MISSOURI DESIGN FIRM PE-001166

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LEGEND
- ENTRANCE REMOVAL (HMA)
- ENTRANCE REMOVAL (PCC)
- PAVEMENT REMOVAL
- SHOULDER REMOVAL

345 2195 350

MATCHLINE STA. 2190+00.00

R/W LINE

SIGN(R)

EX R/W

EXIST ℄

CULVERT(R)

+50.00

NEW ℄

SAWCUT

REMOVE TREES AND BRUSH TO R/W LINE

MATCHLINE STA. 2198+00.00

SCALE 0 30 60 90

2200 355 2205

MATCHLINE STA. 2198+00.00

MATCHLINE STA. 2206+00.00

REMOVAL SHEETS
SHEET 14 OF 25

STATE OF MISSOURI
JEFFREY R. RENSING
NUMBER PE-2006012376
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

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

DATE PREPARED 8/26/2025

ROUTE	STATE
47	MO
DISTRICT	SHEET NO.
NE	123

COUNTY LINCOLN

JOB NO. JNE0003

CONTRACT ID. .

PROJECT NO. .

BRIDGE NO. .

DESCRIPTION	DATE
.	.

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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

OATES ASSOCIATES

Collinsville
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618.345.2200

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Belleville, IL 62220
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314.588.8381

St. Charles
820 South Main, Suite 309
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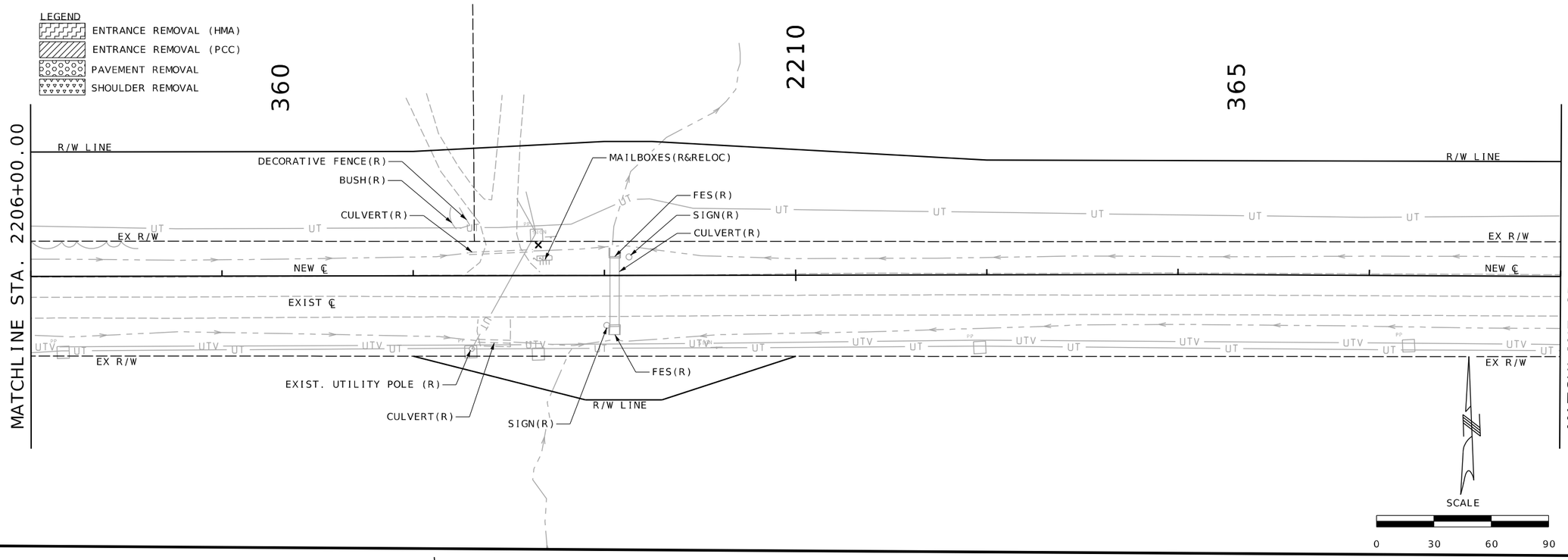
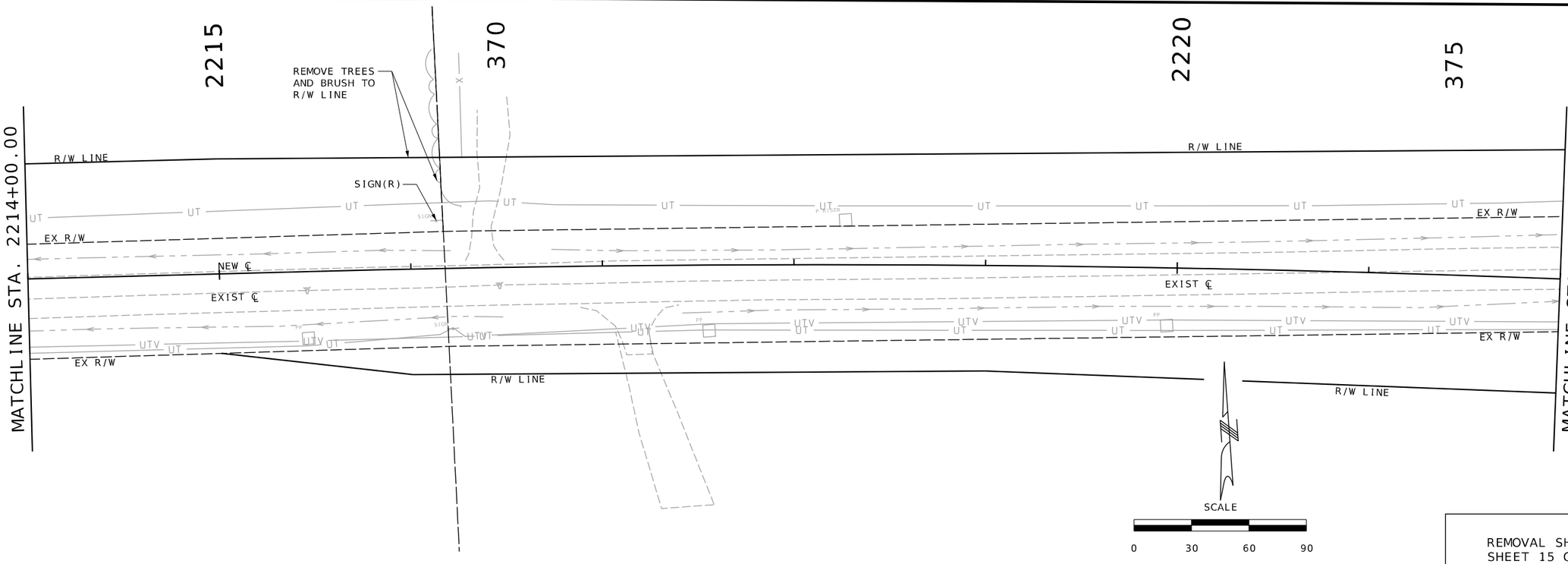
MISSOURI DESIGN FIRM PE-001166





REMOVAL SHEETS
SHEET 15 OF 25

STATE OF MISSOURI
JEFFREY R. RENSING
NUMBER PE-2006012376
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED 8/26/2025

ROUTE	STATE
47	MO
DISTRICT	SHEET NO.
NE	124

COUNTY: LINCOLN
JOB NO.: JNE0003
CONTRACT ID.:
PROJECT NO.:
BRIDGE NO.:

DESCRIPTION	DATE

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

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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

OATES ASSOCIATES

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St. Charles
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St. Charles, MO 63301
636.493.6277

Collinsville
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618.345.2300

Belleville
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MISSOURI DESIGN FIRM PE-001166

LEGEND
- ENTRANCE REMOVAL (HMA)
- ENTRANCE REMOVAL (PCC)
- PAVEMENT REMOVAL
- SHOULDER REMOVAL

2225

380

BENNINTON DR.

MATCHLINE STA. 2222+00.00

MATCHLINE STA. 2230+00.00

R/W LINE

SIGN(R)

SIGN(R)
SIGN(R&RELOC)

CULVERT(R)

EXIST ℄

NEW ℄

EX R/W

REMOVES TREES AND
BRUSH TO R/W LINE

SCALE
0 30 60 90

385

2235

390

MATCHLINE STA. 2230+00.00

MATCHLINE STA. 2238+00.00

EXIST. UTILITY POLE (R)

SCALE
0 30 60 90

REMOVAL SHEETS
SHEET 16 OF 25

STATE OF MISSOURI
JEFFREY R. RENSING
NUMBER PE-2006012376
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED
8/26/2025

ROUTE	STATE
47	MO
DISTRICT	SHEET NO.
NE	125

COUNTY
LINCOLN

JOB NO.
JNE0003

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

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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JEFFERSON CITY, MO 65102
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MISSOURI DESIGN FIRM PE-001166

H:\P\222102 - Route 47 Pavement, Safety, and Shoulder Improvements\CADD\Microstation\CADD Drawings\JNE0003 - sht-Removals.dgn 9:36:32 AM 8/26/2025

LEGEND
- ENTRANCE REMOVAL (HMA)
- ENTRANCE REMOVAL (PCC)
- PAVEMENT REMOVAL
- SHOULDER REMOVAL

2240 | 395 | 2245

BENJAMIN DR.

MATCHLINE STA. 2238+00.00

LANDSCAPING (DND)

SIGN(R)

SIGN(R)

SIGN(R)

EX R/W

EX R/W

EX R/W

EXIST ℄

NEW ℄

CULVERT(R)

SIGNS(R)

R/W LINE

R/W LINE

MATCHLINE STA. 2246+00.00

SCALE

0 30 60 90

400 | 2250 | 405

MATCHLINE STA. 2246+00.00

MATCHLINE STA. 2254+00.00

REMOVE TREES AND BRUSH TO R/W LINE

R/W LINE

EX R/W

EX R/W

EXIST ℄

NEW ℄

NEW ℄

EX R/W

EX R/W

CULVERT(R)

CULVERT(R)

R/W LINE

R/W LINE

R/W LINE

SCALE

0 30 60 90

REMOVAL SHEETS
SHEET 17 OF 25

STATE OF MISSOURI
JEFFREY R. RENSING
NUMBER PE-2006012376
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

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

DATE PREPARED	
8/26/2025	
ROUTE	STATE
47	MO
DISTRICT	SHEET NO.
NE	126
COUNTY	
LINCOLN	
JOB NO.	
JNE0003	
CONTRACT ID.	
.	
PROJECT NO.	
.	
BRIDGE NO.	
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DESCRIPTION	DATE
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MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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

OATES ASSOCIATES

Collinsville
100 Lamer Court, Suite 1
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MISSOURI DESIGN FIRM PE-001166

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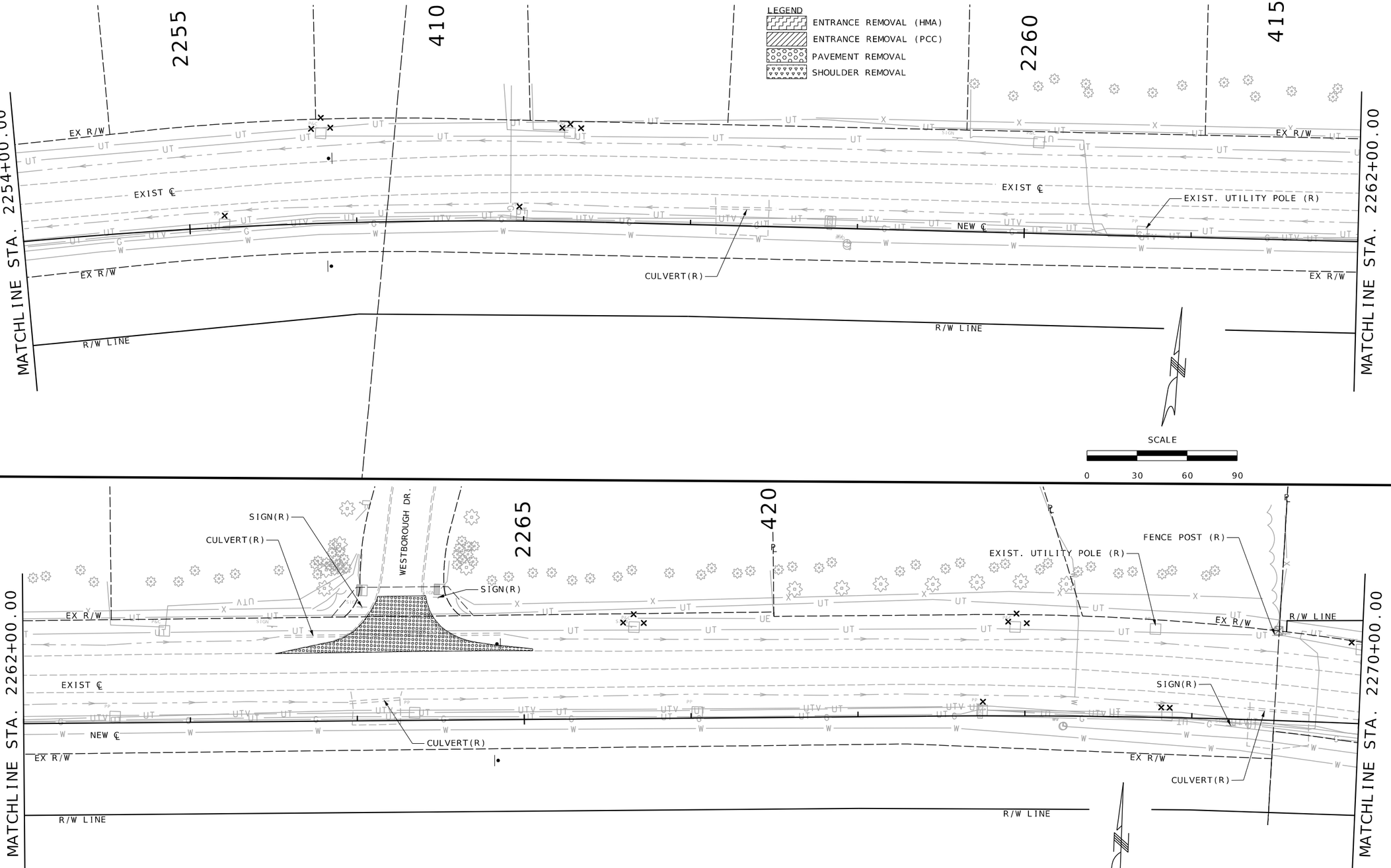

REMOVAL SHEETS
SHEET 18 OF 25

STATE OF MISSOURI
JEFFREY R. RENSING
NUMBER PE-2006012376
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED	
8/26/2025	
ROUTE	STATE
47	MO
DISTRICT	SHEET NO.
NE	127
COUNTY	
LINCOLN	
JOB NO.	
JNE0003	
CONTRACT ID.	
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PROJECT NO.	
.	
BRIDGE NO.	
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IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

DESCRIPTION	DATE
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MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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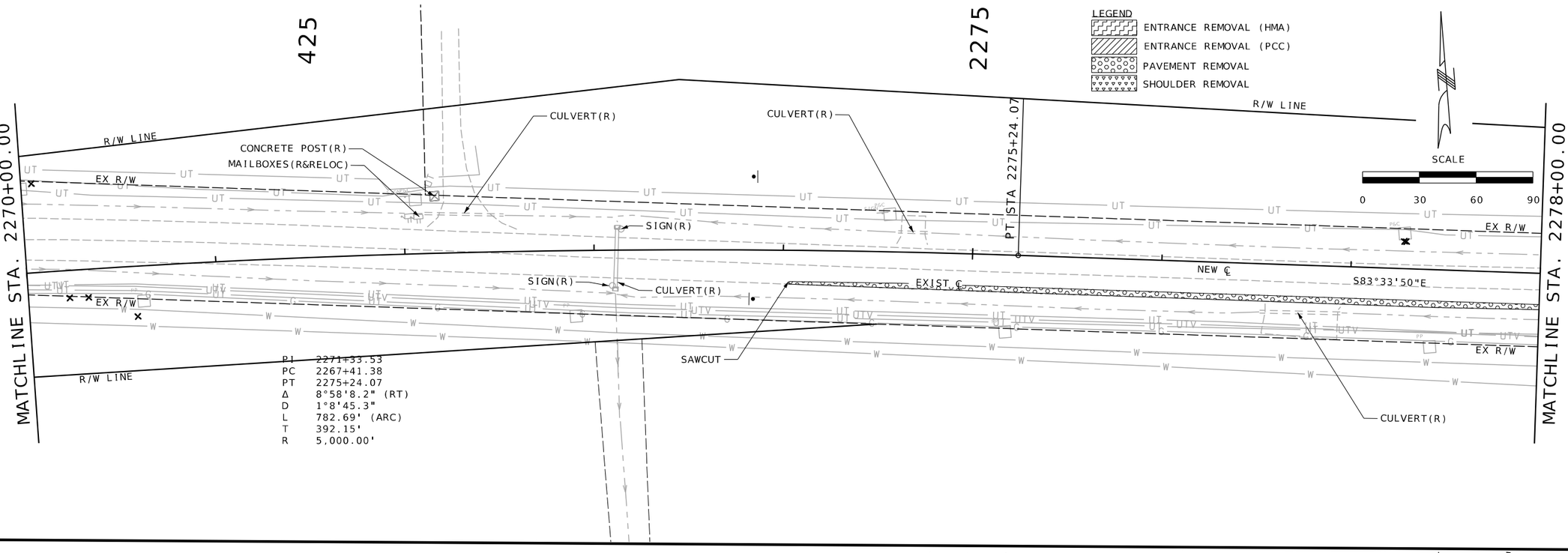

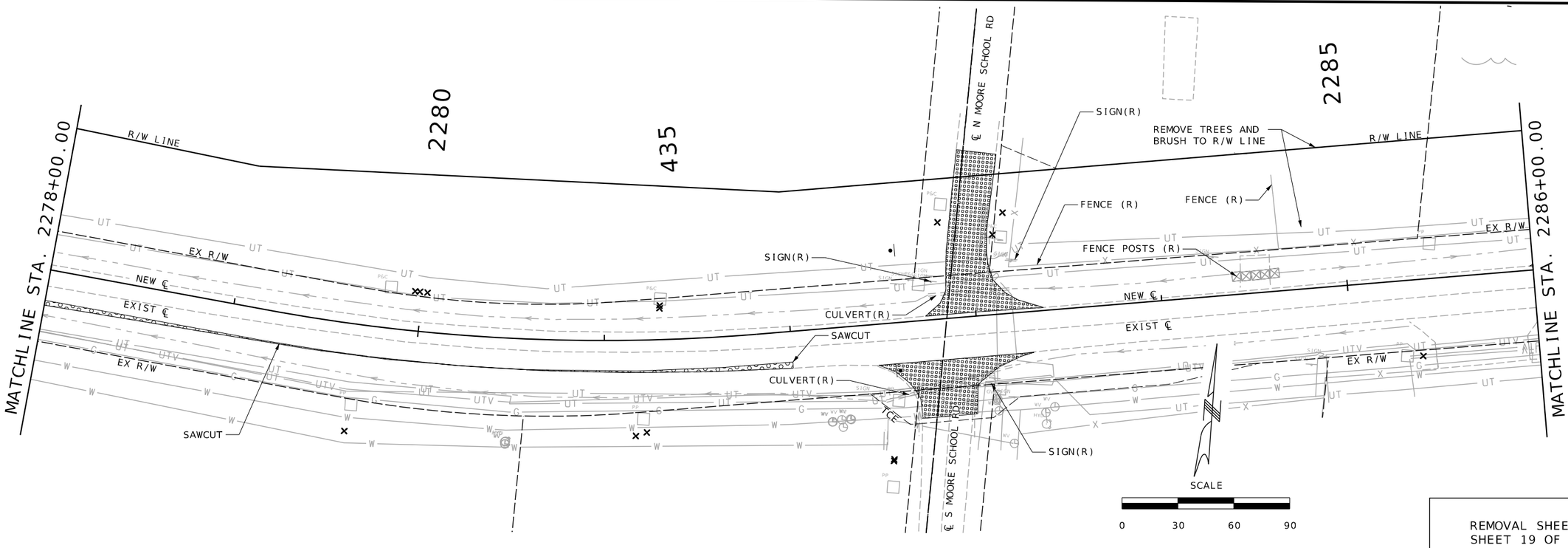

REMOVAL SHEETS
SHEET 19 OF 25

STATE OF MISSOURI
JEFFREY R. RENSING
NUMBER PE-2006012376
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED 8/26/2025

ROUTE	STATE
47	MO
DISTRICT	SHEET NO.
NE	128

COUNTY LINCOLN
JOB NO. JNE0003
CONTRACT ID. .
PROJECT NO. .
BRIDGE NO. .

DESCRIPTION	DATE
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JEFFERSON CITY, MO 65102
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MISSOURI DESIGN FIRM PE-001166

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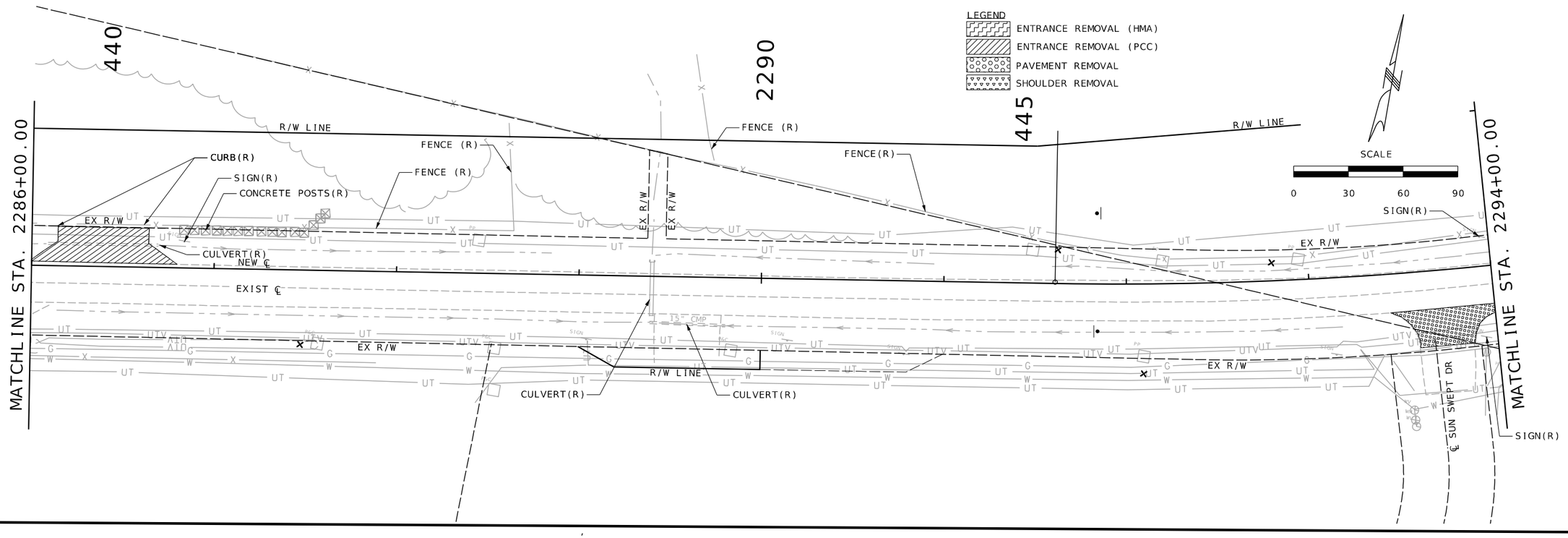

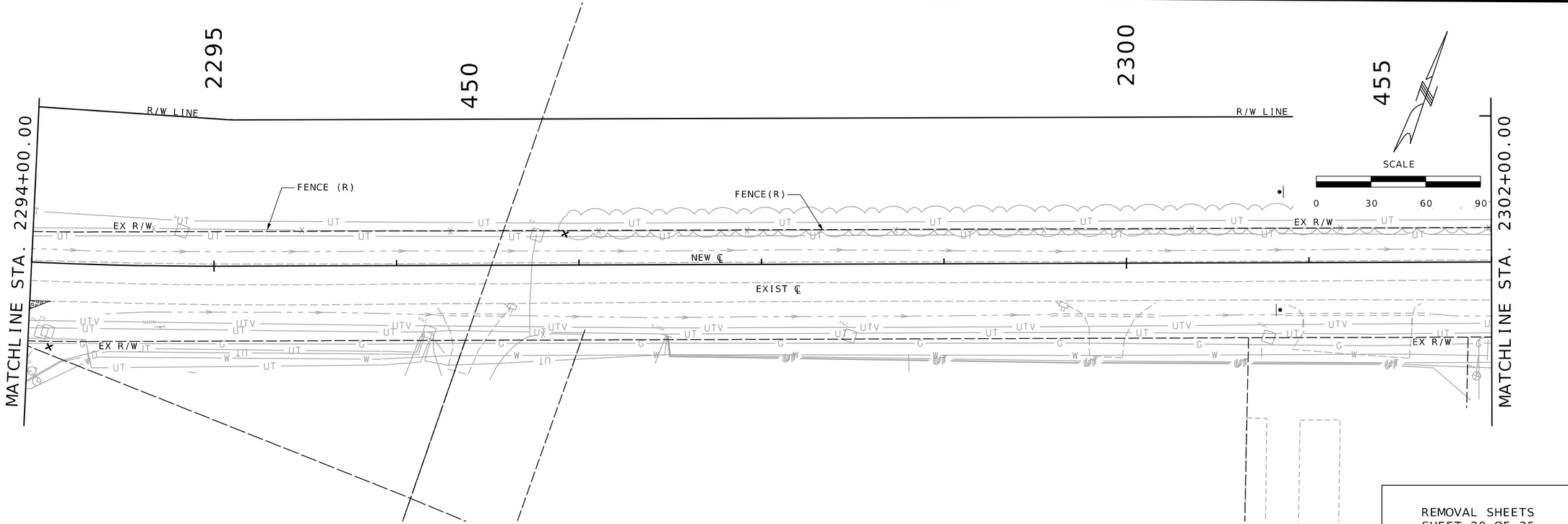

REMOVAL SHEETS
SHEET 20 OF 25

STATE OF MISSOURI
JEFFREY R. RENSING
NUMBER PE-2006012376
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED 8/26/2025

ROUTE	STATE
47	MO
DISTRICT	SHEET NO.
NE	129

COUNTY LINCOLN

JOB NO. JNE0003

CONTRACT ID. .

PROJECT NO. .

BRIDGE NO. .

DESCRIPTION	DATE
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LEGEND
- ENTRANCE REMOVAL (HMA)
- ENTRANCE REMOVAL (PCC)
- PAVEMENT REMOVAL
- SHOULDER REMOVAL

MATCHLINE STA. 2302+00.00

MATCHLINE STA. 2310+00.00

MATCHLINE STA. 2310+00.00

MATCHLINE STA. 2318+00.00

R/W LINE

REMOVE TREES AND BRUSH TO R/W LINE

2305

460

2315

465

470

SCALE
0 30 60 90

FENCE(R)

SIGNS(R)

CULVERT(R)

NEW ℄

EXIST ℄

EX R/W

MAILBOX (R&RELOC)

WINGATE DR.

MEDIAN(R)

SIGN(R)

ENTRANCE(R)

MAILBOX(R&RELOC)

TREE(R)

SAWCUT

REMOVAL SHEETS
SHEET 21 OF 25

STATE OF MISSOURI
JEFFREY R. RENSING
NUMBER PE-2006012376
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED 8/26/2025

ROUTE	STATE
47	MO
DISTRICT	SHEET NO.
NE	130

COUNTY: LINCOLN

JOB NO.: JNE0003

CONTRACT ID.: .

PROJECT NO.: .

BRIDGE NO.: .

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

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JEFFERSON CITY, MO 65102
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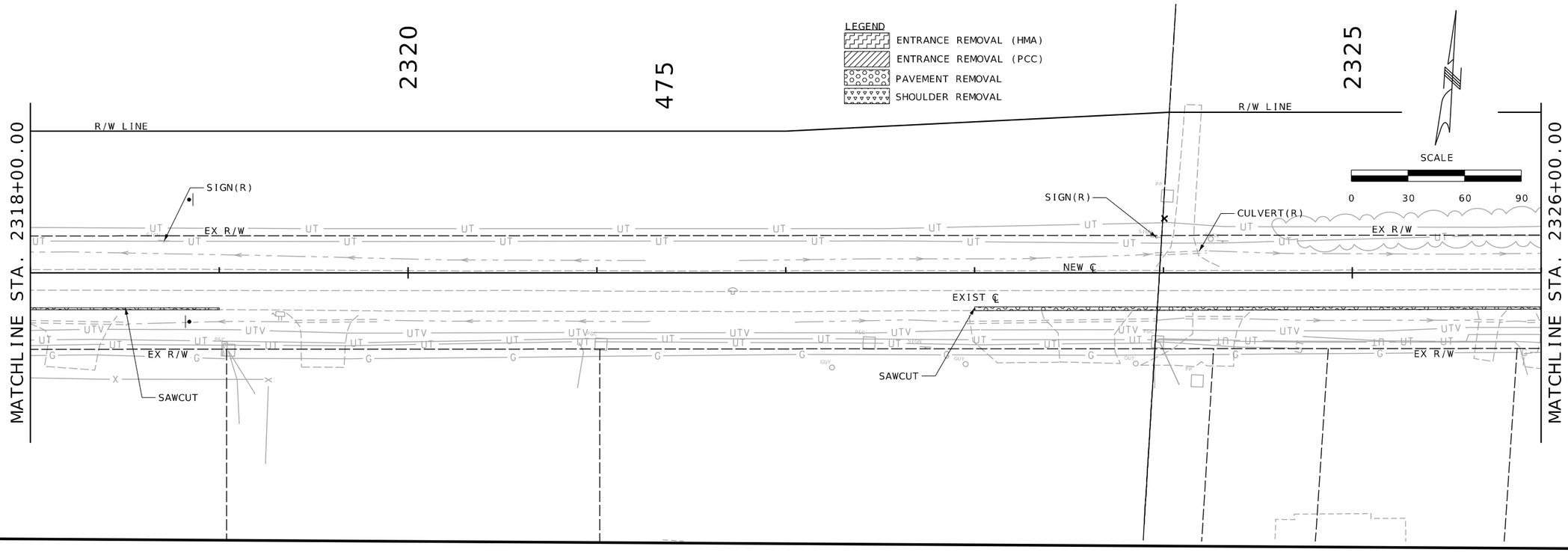
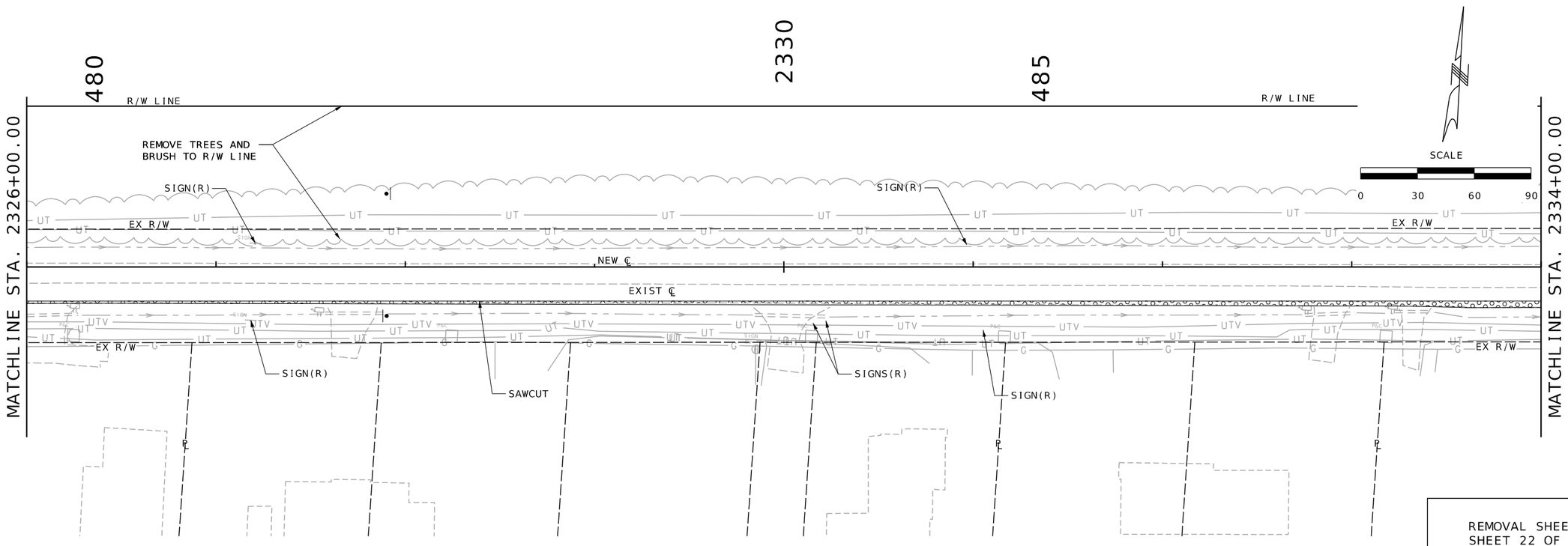
MISSOURI DESIGN FIRM PE-001166





REMOVAL SHEETS
SHEET 22 OF 25

STATE OF MISSOURI
JEFFREY R. RENSING
NUMBER PE-2006012376
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED
8/26/2025

ROUTE	STATE
47	MO
DISTRICT	SHEET NO.
NE	131

COUNTY
LINCOLN

JOB NO.
JNE0003

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

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MISSOURI DESIGN FIRM PE-001166

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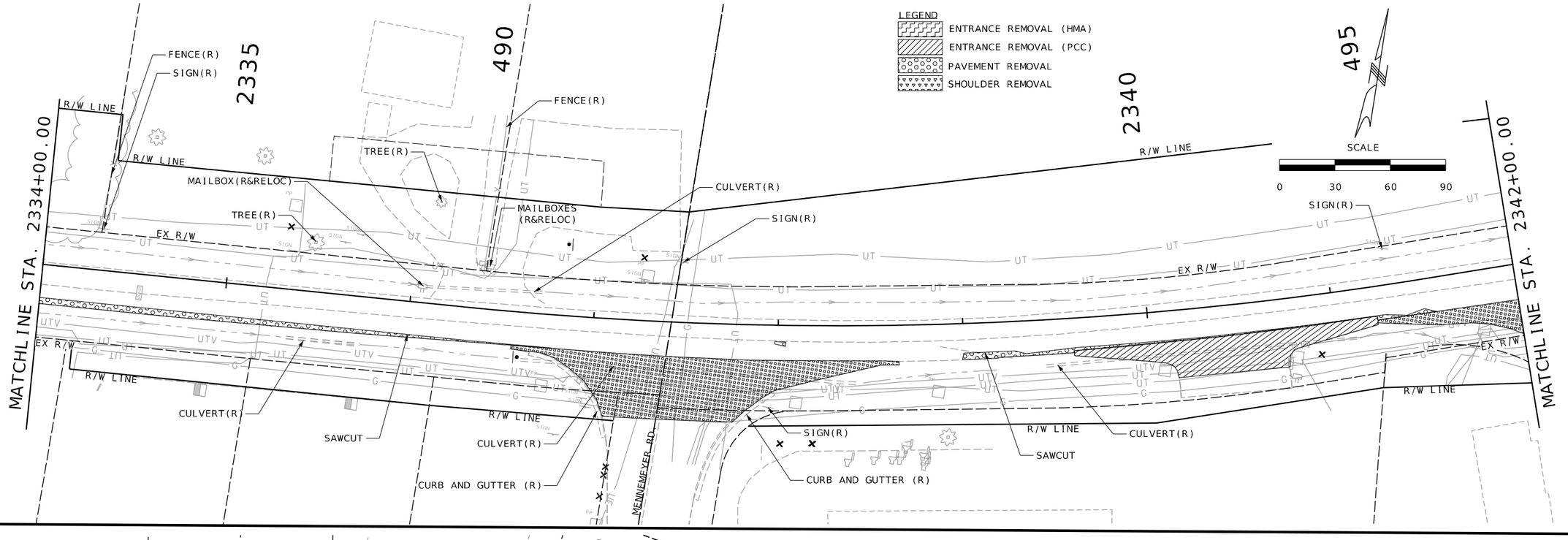

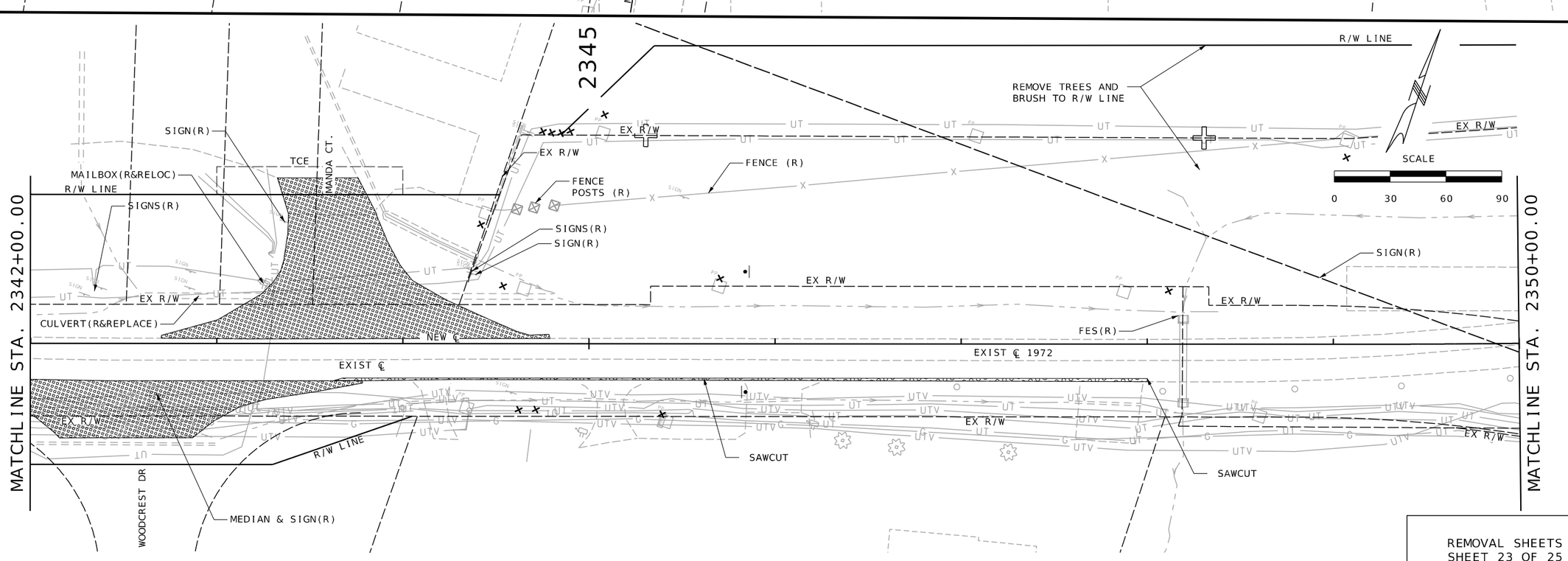

REMOVAL SHEETS
SHEET 23 OF 25

STATE OF MISSOURI
JEFFREY R. RENSING
NUMBER PE-2006012376
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED
8/26/2025

ROUTE	STATE
47	MO
DISTRICT	SHEET NO.
NE	132

COUNTY
LINCOLN

JOB NO.
JNE0003

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

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JEFFERSON CITY, MO 65102
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St. Charles
820 South Main, Suite 309
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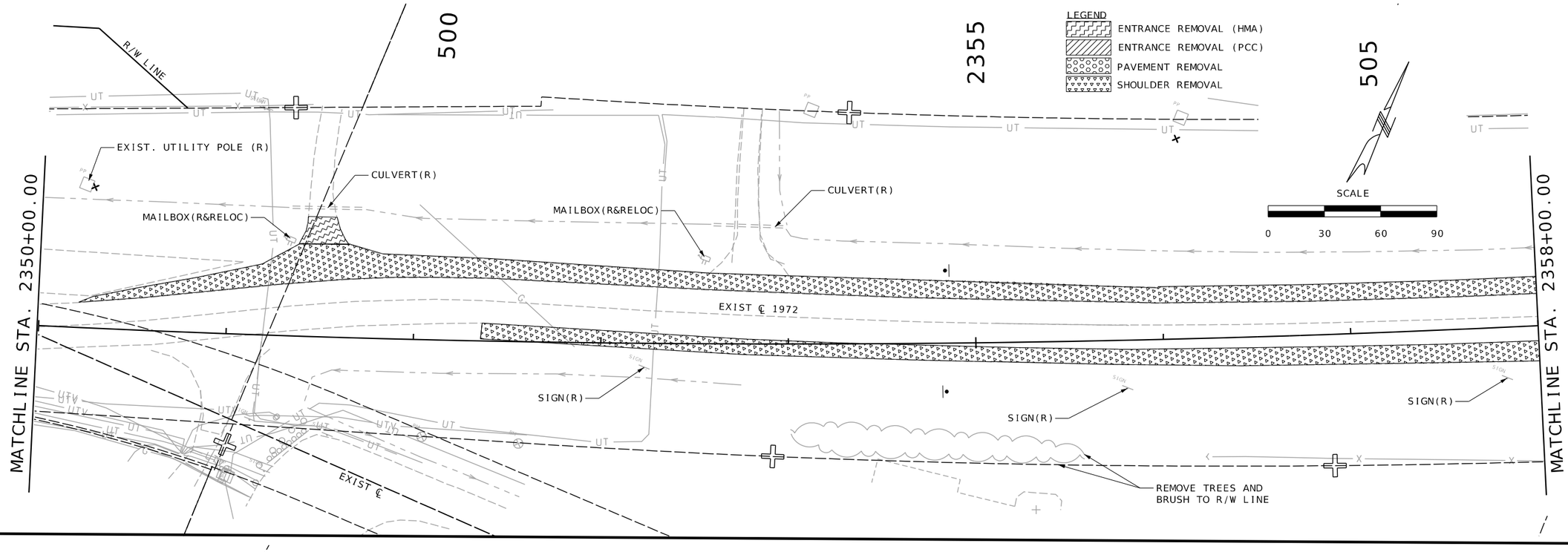
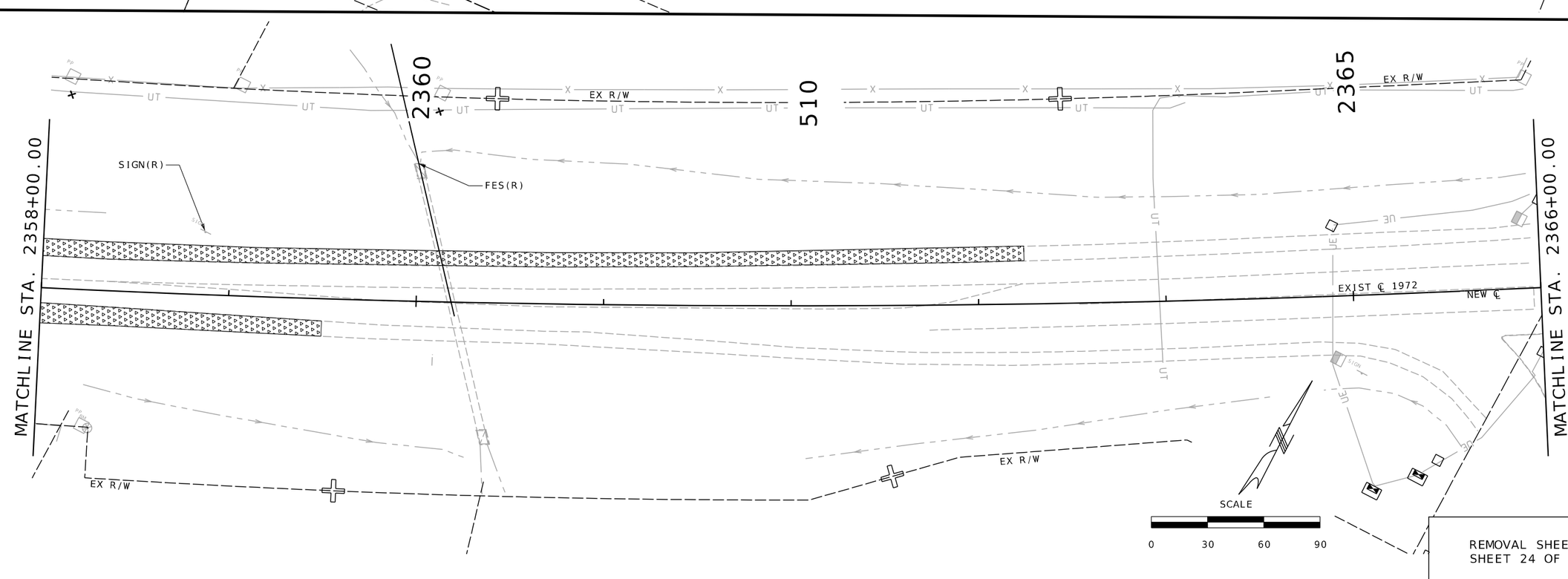
MISSOURI DESIGN FIRM PE-001166





REMOVAL SHEETS
SHEET 24 OF 25

STATE OF MISSOURI
JEFFREY R. RENSING
NUMBER PE-2006012376
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

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

DATE PREPARED	
8/26/2025	
ROUTE	STATE
47	MO
DISTRICT	SHEET NO.
NE	133
COUNTY	
LINCOLN	
JOB NO.	
JNE0003	
CONTRACT ID.	
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PROJECT NO.	
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BRIDGE NO.	
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DESCRIPTION	DATE
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MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

105 WEST CAPITOL
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MISSOURI DESIGN FIRM PE-001166

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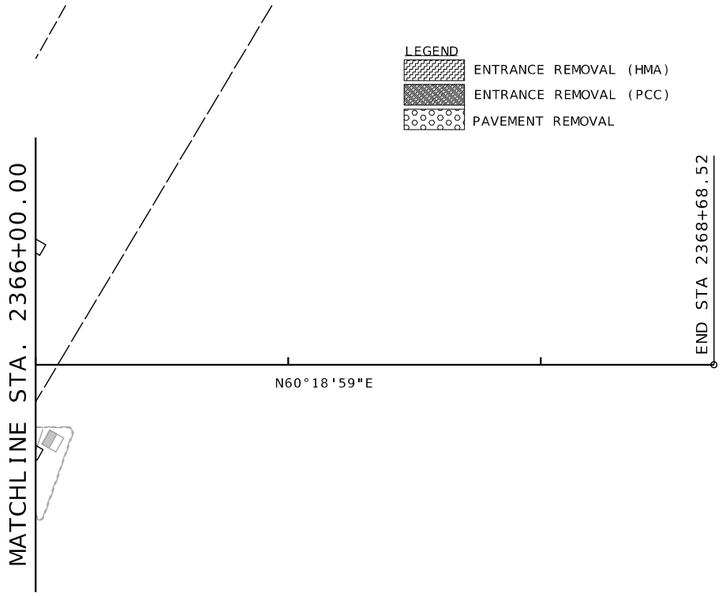

REMOVAL SHEETS
SHEET 25 OF 25

STATE OF MISSOURI
JEFFREY R. RENSING
NUMBER PE-2006012376
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

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

DATE PREPARED
8/26/2025

ROUTE	STATE
47	MO
DISTRICT	SHEET NO.
NE	134

COUNTY
LINCOLN

JOB NO.
JNE0003

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

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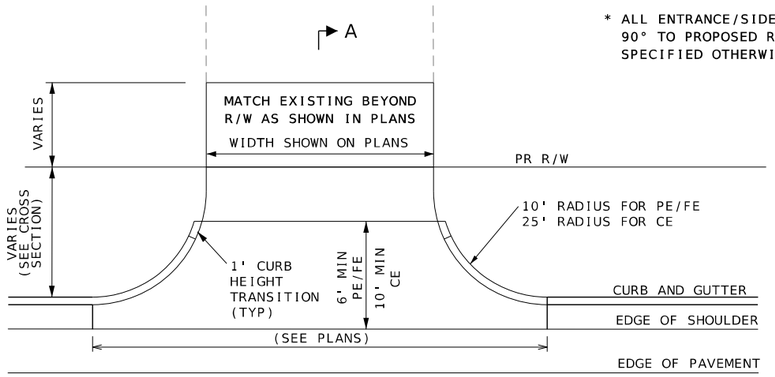
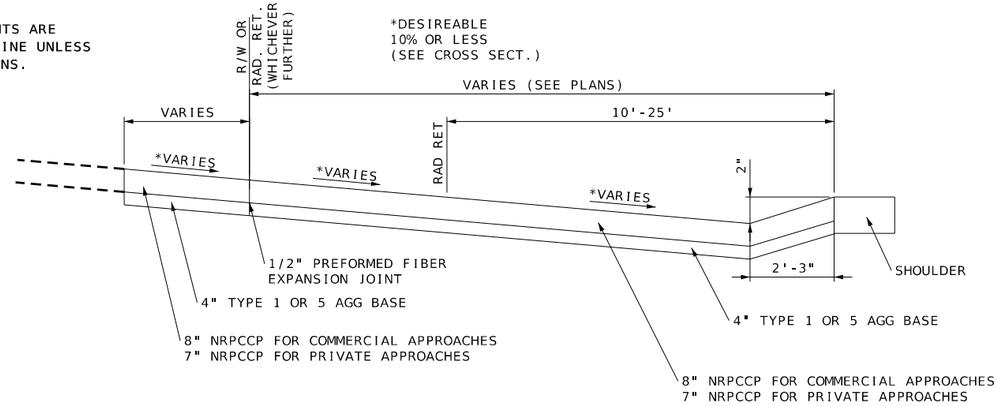
MISSOURI DESIGN FIRM PE-001166



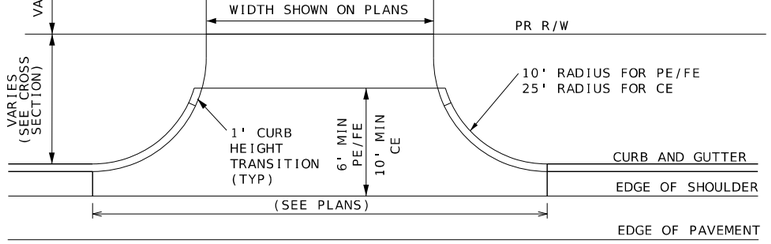
PLAN VIEW

* ALL ENTRANCE/SIDEROAD ALIGNMENTS ARE 90° TO PROPOSED ROUTE 47 BASELINE UNLESS SPECIFIED OTHERWISE IN THE PLANS.



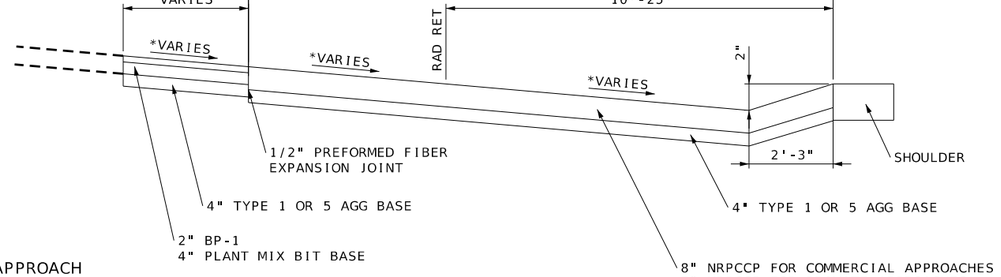
SECTION A-A

PAVED APPROACH ADJOINING CURB AND GUTTER SECTION EX CONCRETE ENTRANCE



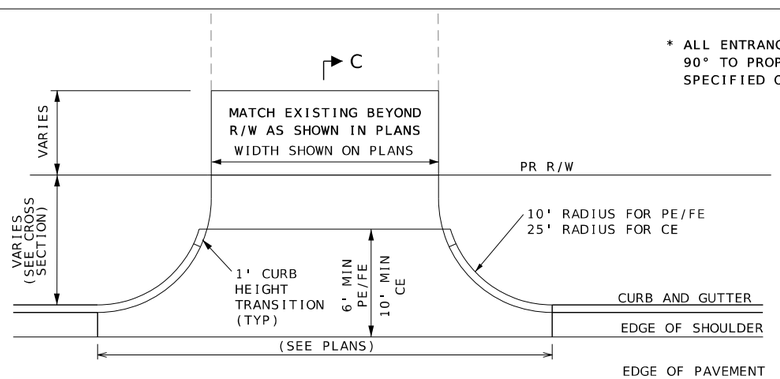
PLAN VIEW

* ALL ENTRANCE/SIDEROAD ALIGNMENTS ARE 90° TO PROPOSED ROUTE 47 BASELINE UNLESS SPECIFIED OTHERWISE IN THE PLANS.



SECTION B-B

PAVED APPROACH ADJOINING CURB AND GUTTER SECTION EX ASPHALT ENTRANCE



PLAN VIEW

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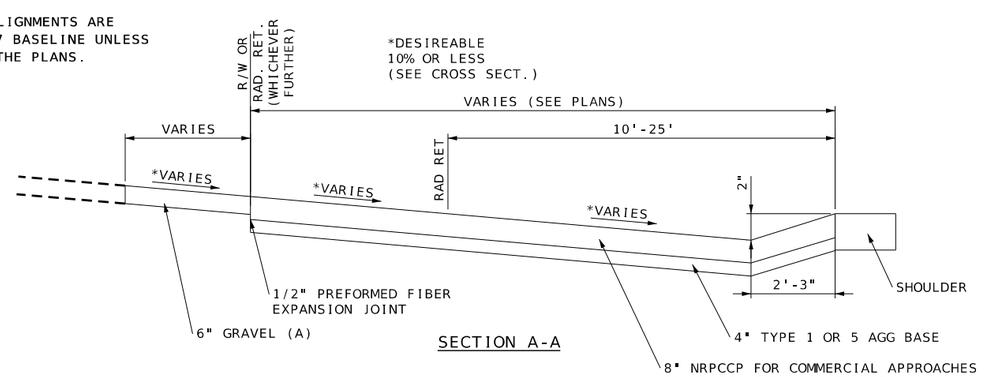

SECTION A-A

PAVED APPROACH ADJOINING CURB AND GUTTER SECTION EX AGGREGATE ENTRANCE

GENERAL NOTES:
NO PART OF THE DRIVEWAY EXCLUDING THE TAPERS SHALL BE CONSTRUCTED BEYOND THE PROPERTY FRONTAGE.
TRANSITION CURB HEIGHT AS SHOWN FROM FULL HEIGHT TO 0" WHEN NO EXISTING ENTRANCE CURB IS PRESENT.

DISCLAIMER
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ENTRANCE DETAILS
SHEET 1 OF 5

STATE OF MISSOURI
JEFFREY R. RENSING
NUMBER PE-2006012376
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED 8/26/2025

ROUTE	STATE
47	MO
DISTRICT	SHEET NO.
NE	135

COUNTY: LINCOLN
JOB NO.: JNE0003
CONTRACT ID.:
PROJECT NO.:
BRIDGE NO.:

DESCRIPTION	DATE

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MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
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JEFFERSON CITY, MO 65102
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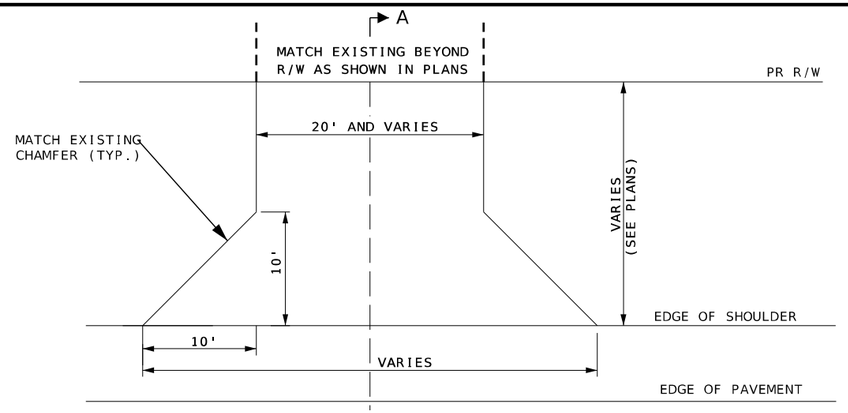
MISSOURI DESIGN FIRM PE-001166

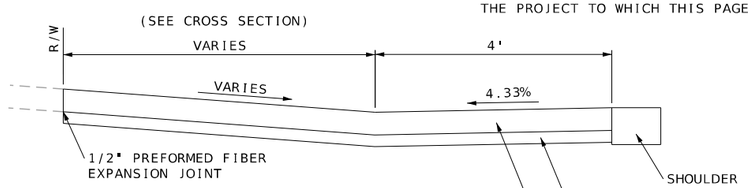


A

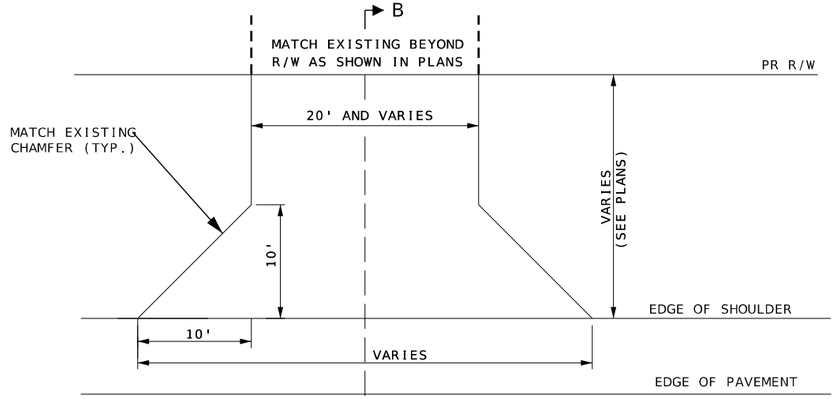
PLAN VIEW

RURAL PRIVATE AND
COMMERCIAL SECTION
EX CONCRETE ENTRANCE

* ALL ENTRANCE/SIDEROAD ALIGNMENTS ARE 90° TO PROPOSED ROUTE 47 BASELINE UNLESS SPECIFIED OTHERWISE IN THE PLANS.



SECTION A-A

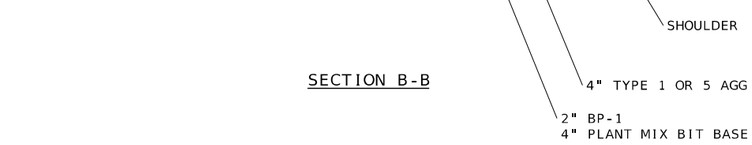


B

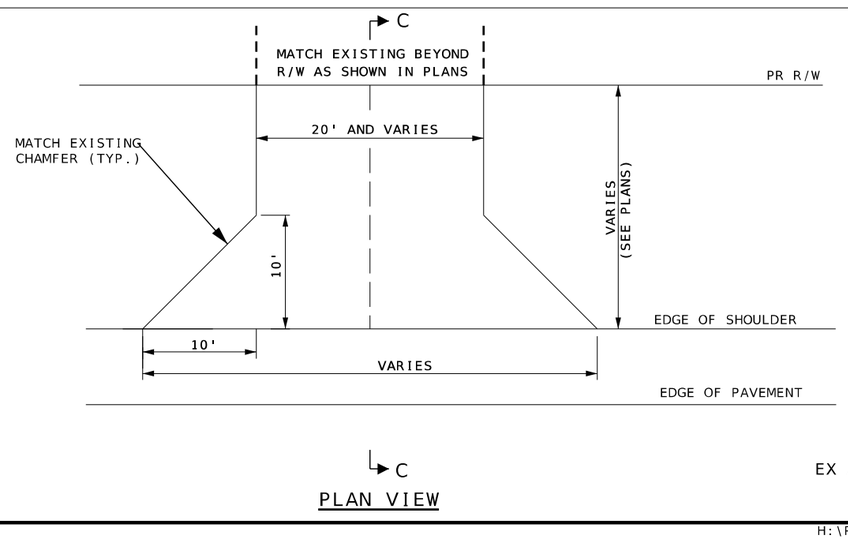
PLAN VIEW

RURAL PRIVATE AND
COMMERCIAL SECTION
EX ASHPALT ENTRANCE

* ALL ENTRANCE/SIDEROAD ALIGNMENTS ARE 90° TO PROPOSED ROUTE 47 BASELINE UNLESS SPECIFIED OTHERWISE IN THE PLANS.



SECTION B-B

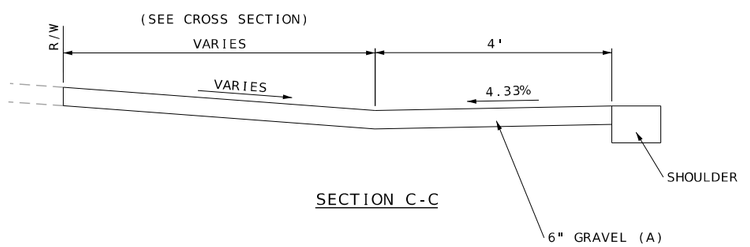


C

PLAN VIEW

RURAL PRIVATE AND
COMMERCIAL SECTION
EX AGGREGATE/FIELD ENTRANCE

* ALL ENTRANCE/SIDEROAD ALIGNMENTS ARE 90° TO PROPOSED ROUTE 47 BASELINE UNLESS SPECIFIED OTHERWISE IN THE PLANS.



SECTION C-C

GENERAL NOTES:
NO PART OF THE DRIVEWAY EXCLUDING THE TAPERS SHALL BE CONSTRUCTED BEYOND THE PROPERTY FRONTAGE.

SLOPE 4" MINIMUM FROM EDGE OF TRAVELED WAY TO BREAK POINT.

ENTRANCE DETAILS
SHEET 2 OF 5

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STATE OF MISSOURI
JEFFREY R. RENSING
NUMBER PE-2006012376
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED 8/26/2025

ROUTE	STATE
47	MO
DISTRICT	SHEET NO.
NE	136

COUNTY: LINCOLN
JOB NO.: JNE0003
CONTRACT ID.:
PROJECT NO.:
BRIDGE NO.:

DESCRIPTION	DATE

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MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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

St. Louis
720 Olive, Suite 700
St. Louis, MO 63101
314.588.8281

St. Charles
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St. Charles, MO 63301
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Belleville
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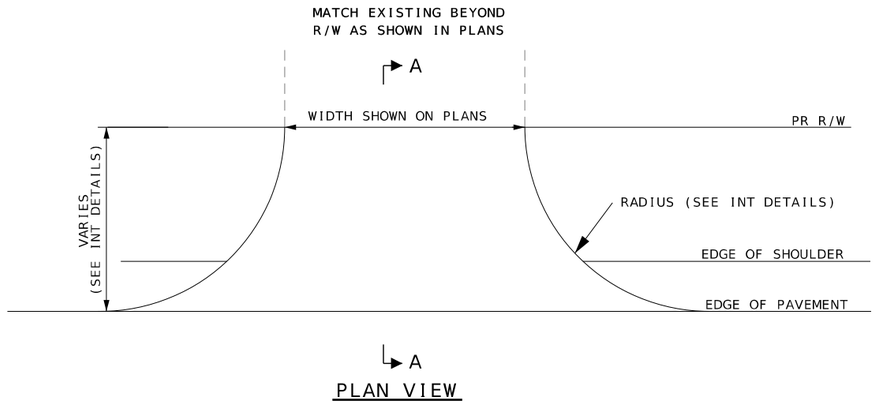
618.416.4688

www.oatesassociates.com

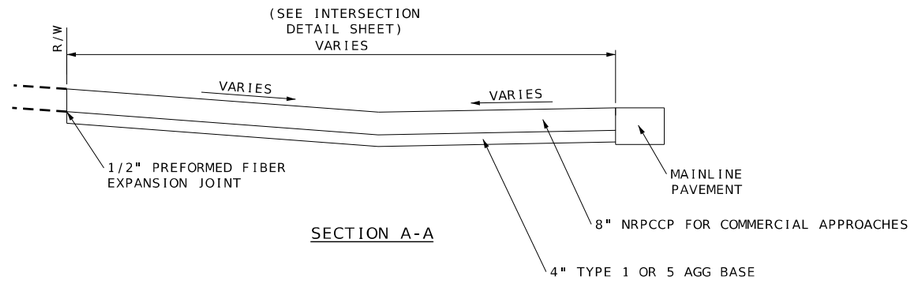
MISSOURI DESIGN FIRM PE-001166

OATES ASSOCIATES



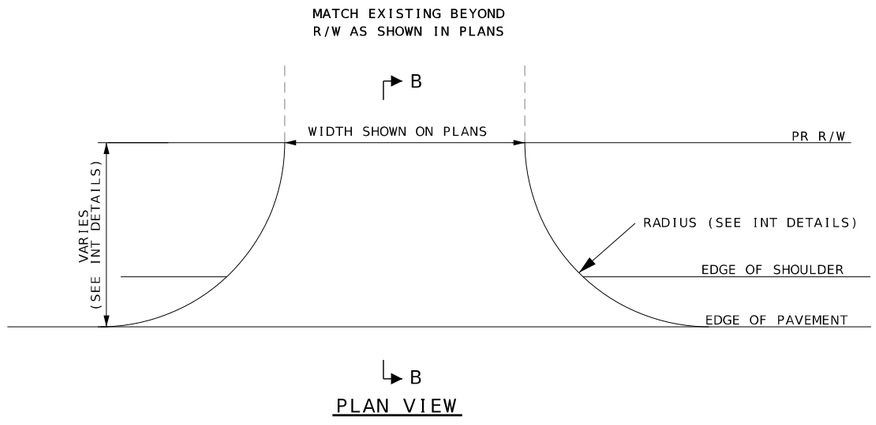
PLAN VIEW

* ALL ENTRANCE/SIDEROAD ALIGNMENTS ARE 90° TO PROPOSED ROUTE 47 BASELINE UNLESS SPECIFIED OTHERWISE IN THE PLANS.



SECTION A-A

CONCRETE SIDEROAD



PLAN VIEW

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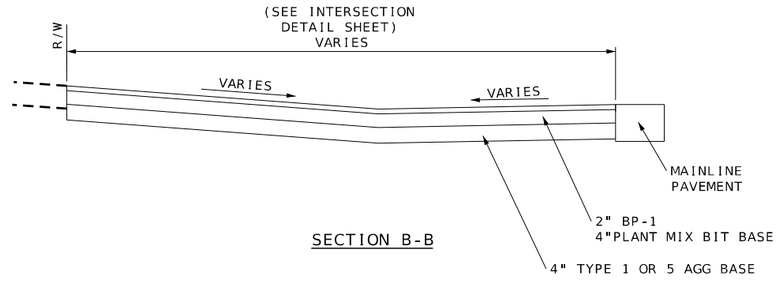

SECTION B-B

ASPHALT OR AGGREGATE SIDEROAD

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STATE OF MISSOURI
JEFFREY R. RENSING
NUMBER PE-2006012376
PROFESSIONAL ENGINEER

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DATE PREPARED: 8/26/2025

ROUTE	STATE
47	MO

DISTRICT	SHEET NO.
NE	137

COUNTY: LINCOLN

JOB NO.: JNE0003

CONTRACT ID.:

PROJECT NO.:

BRIDGE NO.:

DESCRIPTION	DATE

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618.416.4868

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MISSOURI DESIGN FIRM PE-001166

ENTRANCE DETAILS
SHEET 3 OF 5

H:\P\222102 - Route 47 Pavement, Safety, and Shoulder Improvements\CADD\Microstation\CADD Drawings\JNE0003 - sht-construction_detail.dgn 9:50:22 AM 8/26/2025

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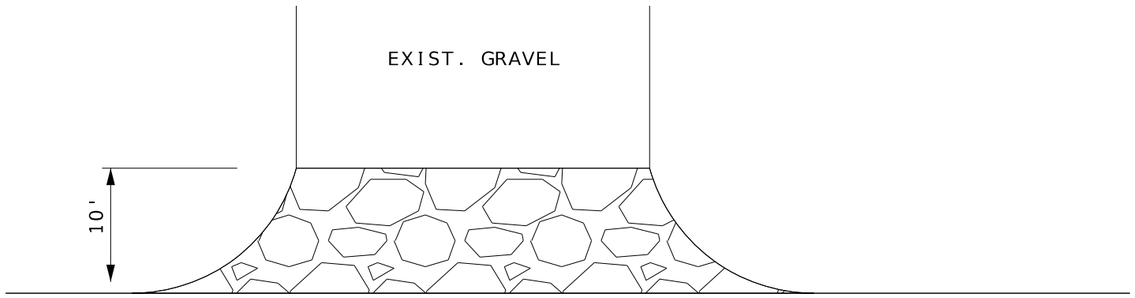

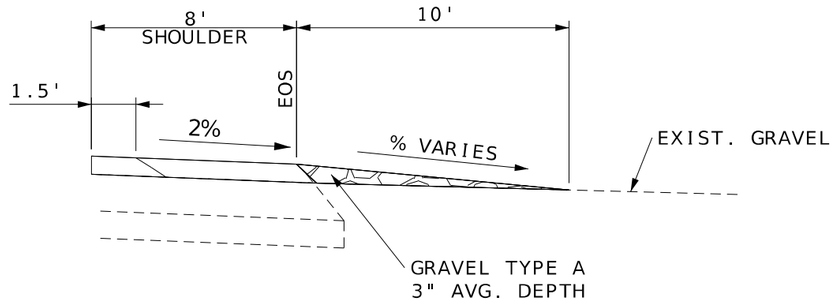

AGGREGATE ENTRANCE (NOT IMPACTED BY WIDENING)

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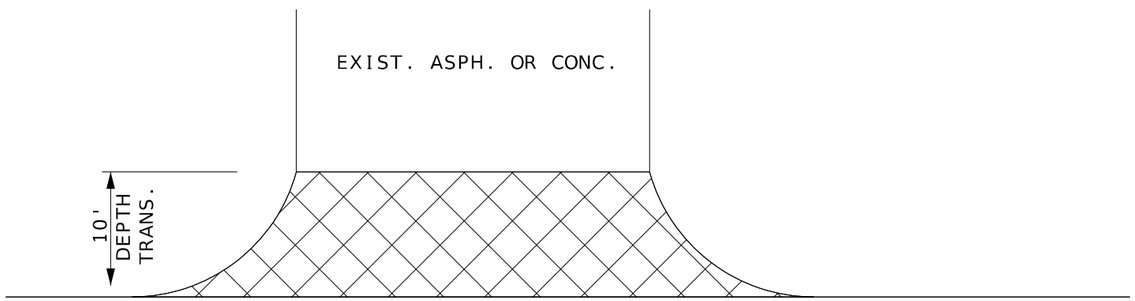

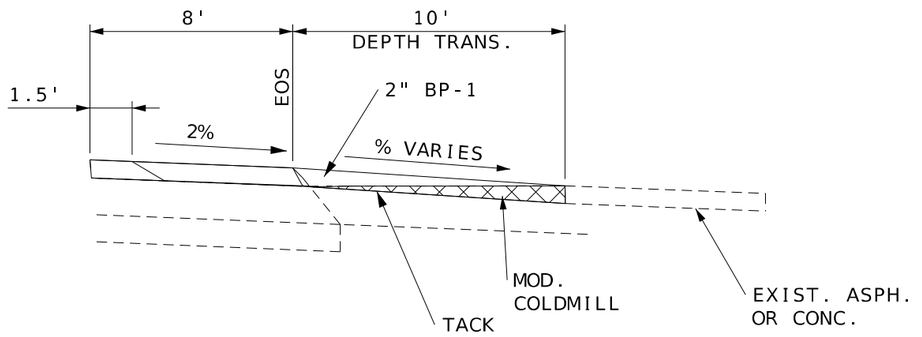

ASPHALT OR CONCRETE ENTRANCE (NOT IMPACTED BY WIDENING)

ENTRANCE DETAILS
SHEET 4 OF 5

STATE OF MISSOURI
JEFFREY R. RENSING
NUMBER PE-2006012376
PROFESSIONAL ENGINEER
THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED 8/26/2025
ROUTE 47 | STATE MO
DISTRICT NE | SHEET NO. 138
COUNTY LINCOLN
JOB NO. JNE0003
CONTRACT ID. .
PROJECT NO. .
BRIDGE NO. .

DESCRIPTION	DATE
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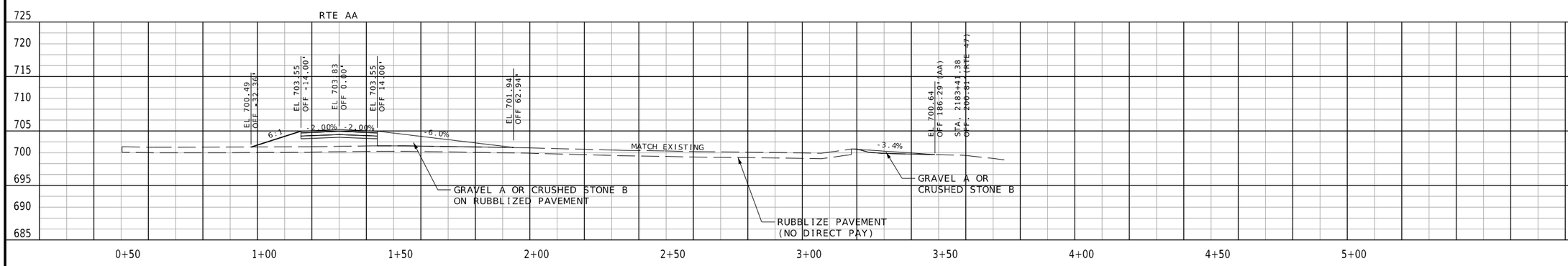
St. Charles 820 South Main, Suite 309 St. Charles, MO 63301 636.493.6277
www.oatesassociates.com
MISSOURI DESIGN FIRM PE-001166



ENTRANCE DETAILS
SHEET 5 OF 5

STATE OF MISSOURI
JEFFREY R. RENSING
NUMBER PE-2006012376
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED
8/26/2025

ROUTE	STATE
47	MO
DISTRICT	SHEET NO.
NE	139

COUNTY
LINCOLN

JOB NO.
JNE0003

CONTRACT ID.
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PROJECT NO.
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BRIDGE NO.
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DESCRIPTION	DATE
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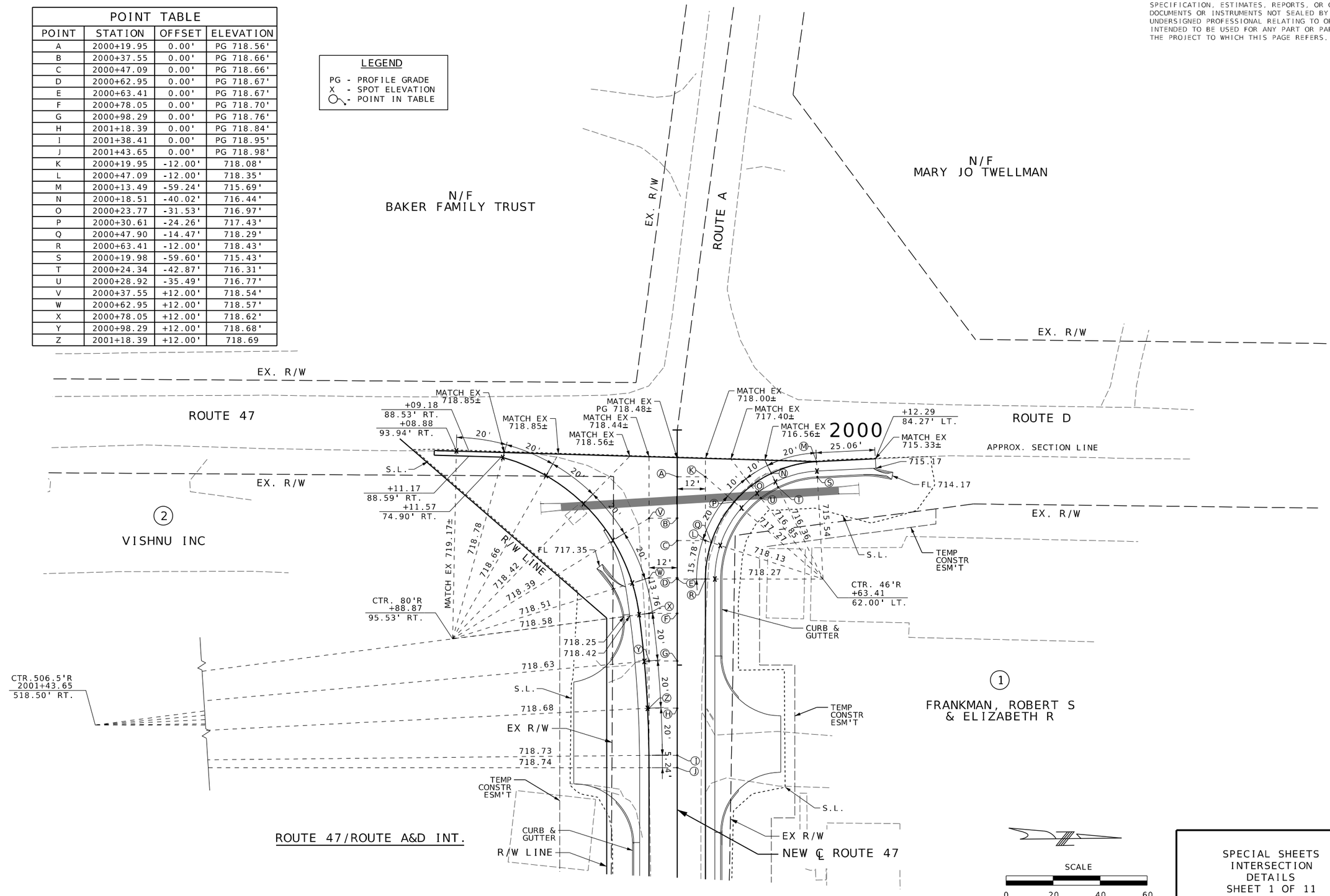
MISSOURI DESIGN FIRM PE-001166

OATES ASSOCIATES

POINT TABLE			
POINT	STATION	OFFSET	ELEVATION
A	2000+19.95	0.00'	PG 718.56'
B	2000+37.55	0.00'	PG 718.66'
C	2000+47.09	0.00'	PG 718.66'
D	2000+62.95	0.00'	PG 718.67'
E	2000+63.41	0.00'	PG 718.67'
F	2000+78.05	0.00'	PG 718.70'
G	2000+98.29	0.00'	PG 718.76'
H	2001+18.39	0.00'	PG 718.84'
I	2001+38.41	0.00'	PG 718.95'
J	2001+43.65	0.00'	PG 718.98'
K	2000+19.95	-12.00'	718.08'
L	2000+47.09	-12.00'	718.35'
M	2000+13.49	-59.24'	715.69'
N	2000+18.51	-40.02'	716.44'
O	2000+23.77	-31.53'	716.97'
P	2000+30.61	-24.26'	717.43'
Q	2000+47.90	-14.47'	718.29'
R	2000+63.41	-12.00'	718.43'
S	2000+19.98	-59.60'	715.43'
T	2000+24.34	-42.87'	716.31'
U	2000+28.92	-35.49'	716.77'
V	2000+37.55	+12.00'	718.54'
W	2000+62.95	+12.00'	718.57'
X	2000+78.05	+12.00'	718.62'
Y	2000+98.29	+12.00'	718.68'
Z	2001+18.39	+12.00'	718.69

LEGEND

PG - PROFILE GRADE
X - SPOT ELEVATION
◯ - POINT IN TABLE



ROUTE 47/ROUTE A&D INT.

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STATE OF MISSOURI
PROFESSIONAL ENGINEER
MARGARET ANN BRUNS
NUMBER PE-2010000798

7/30/2025 4:14:52 PM
Margaret Ann Bruns - Civil
MO PE:2010000798

DATE PREPARED
7/30/2025

ROUTE	STATE
47	MO
DISTRICT	SHEET NO.
NE	140

COUNTY
LINCOLN

JOB NO.
JNE0003

CONTRACT ID.
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PROJECT NO.
.

BRIDGE NO.
.

DESCRIPTION	DATE
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EFK•Moen
Civil Engineering Design
13523 Barrett Parkway Dr
Suite 250
St. Louis, MO 63021
Phone 314-394-3100
Fax 314-394-3199
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SPECIAL SHEETS
INTERSECTION
DETAILS
SHEET 1 OF 11

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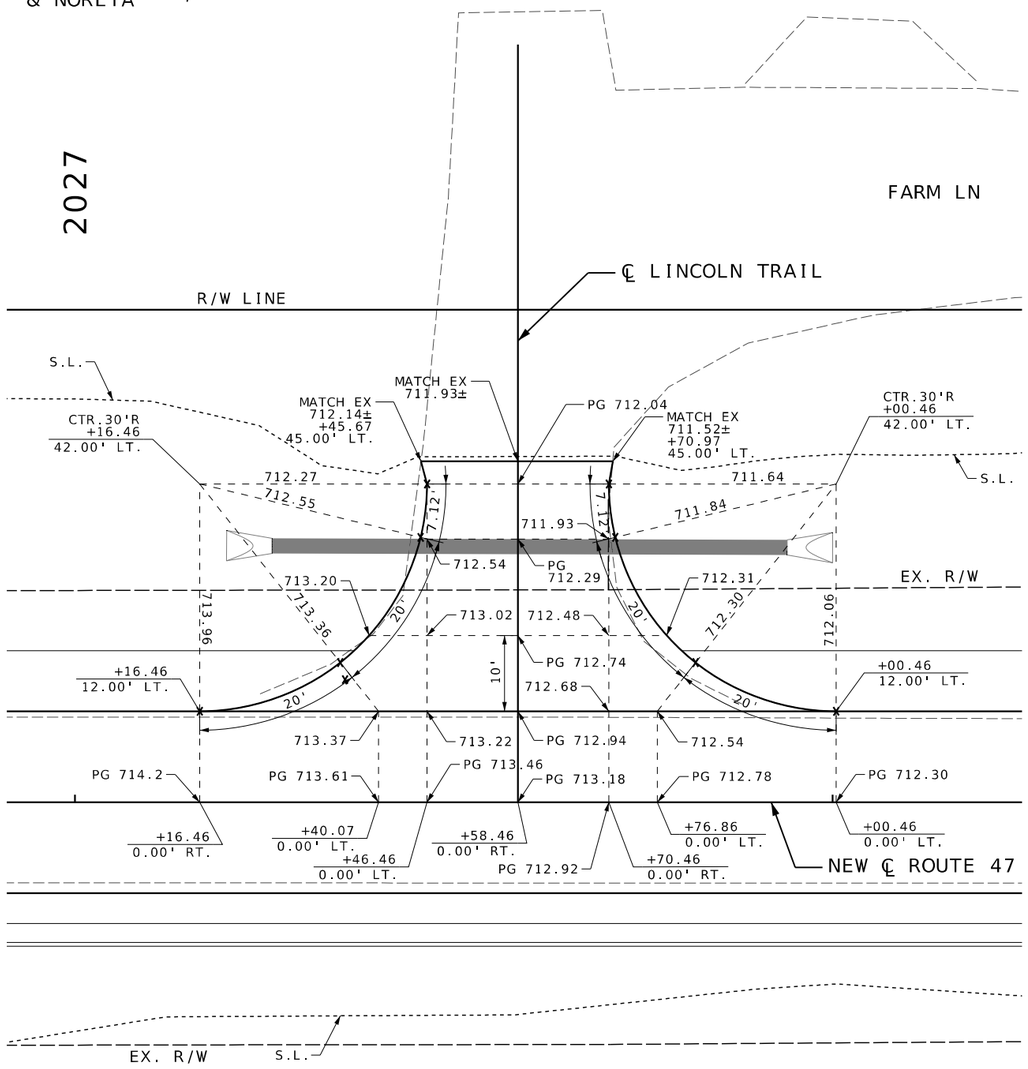
LEGEND
PG - PROFILE GRADE
X - SPOT ELEVATION
- POINT IN TABLE

(22) MARTINEK, DANIEL J & NORETA

(23) ROBERT E & VIRGINIA M NEWCOMB

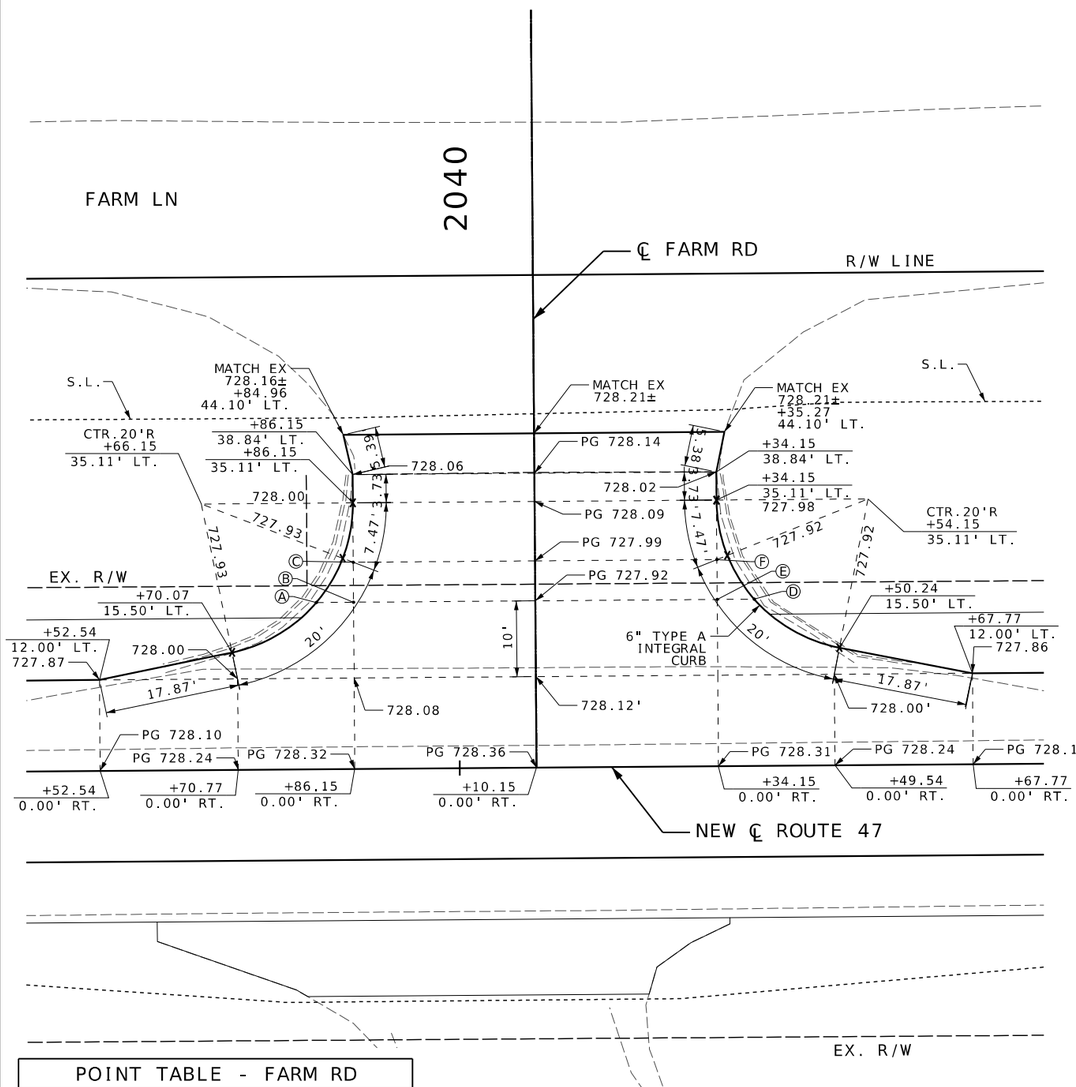
(24) KEIM INVESTMENTS LLC



LINCOLN TRAIL
STA.2027+58.46

(28) GROEPPER, KERRY & NANCY

(29) MORTIMER, HOWARD J & TERRI L



POINT TABLE - FARM RD			
POINT	STATION	OFFSET	ELEVATION
A	2039+81.25	-22.00'	727.87'
B	2039+86.15	-22.00'	727.88'
C	2039+86.15	-27.27'	727.93'
D	2040+39.15	-22.00'	727.87'
E	2040+34.15	-22.00'	727.88'
F	2040+34.15	-27.27'	727.92'

FARM ROAD
STA. 2040+10.15

SPECIAL SHEETS
INTERSECTION DETAILS
SHEET 2 OF 11

STATE OF MISSOURI
PROFESSIONAL ENGINEER
MARGARET ANN BRUNS
NUMBER PE-2010000798
7/30/2025 4:14:53 PM
Margaret Ann Bruns - Civil
MO PE:2010000798

DATE PREPARED 7/30/2025
ROUTE 47 | STATE MO
DISTRICT NE | SHEET NO. 141
COUNTY LINCOLN
JOB NO. JNE0003
CONTRACT ID. .
PROJECT NO. .
BRIDGE NO. .

DESCRIPTION	DATE
.	.

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13523 Barrett Parkway Dr
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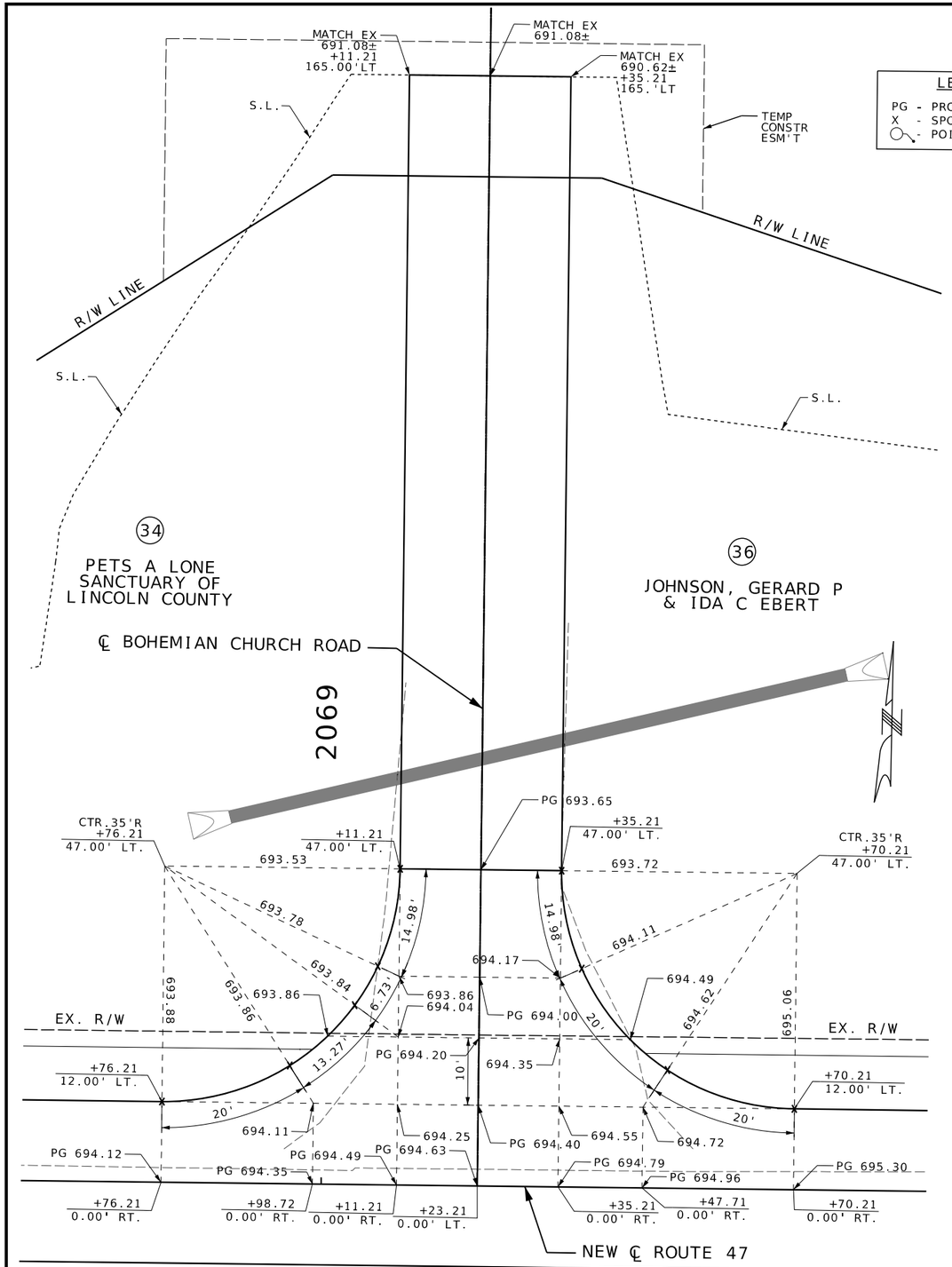
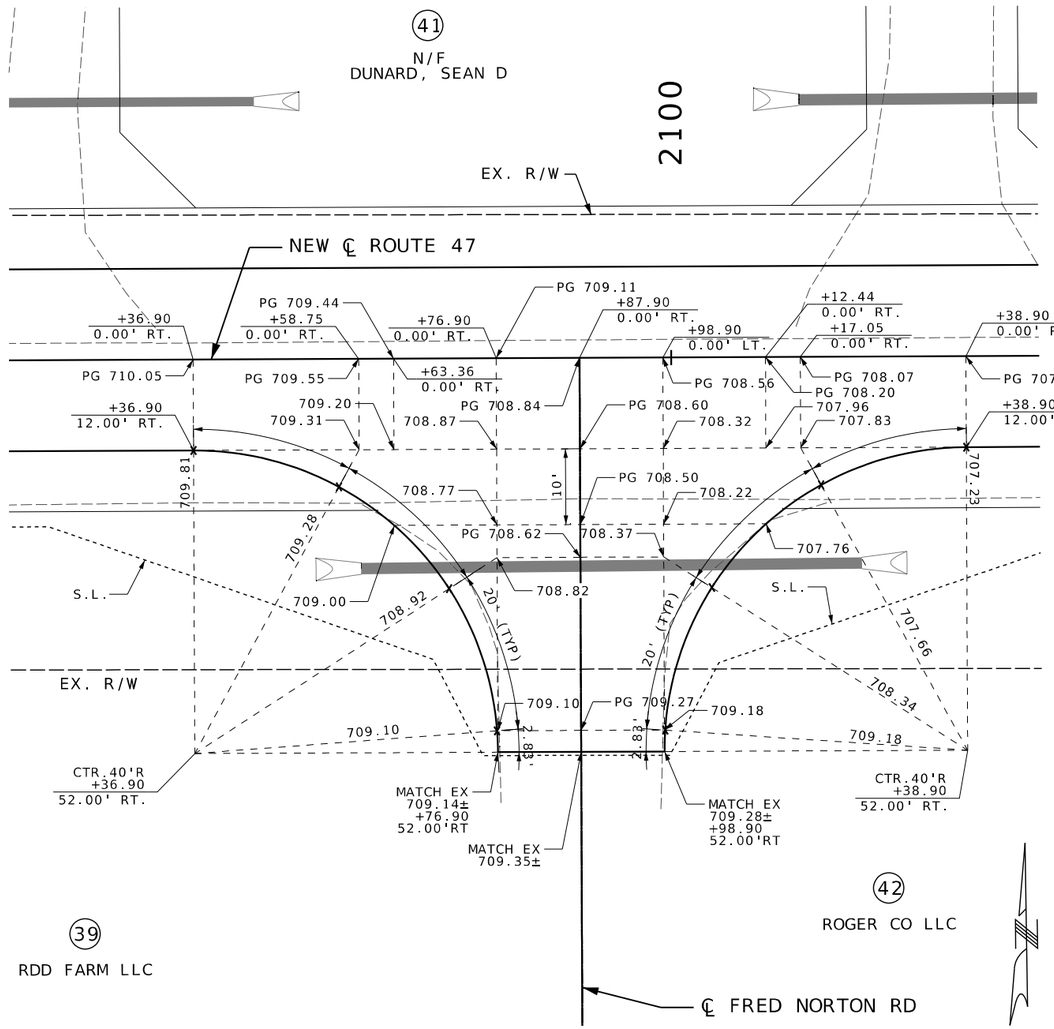


BOHEMIAN CHURCH ROAD
STA. 2069+23.21

LEGEND

PG - PROFILE GRADE
X - SPOT ELEVATION
○ - POINT IN TABLE



FRED NORTON ROAD
STA. 2099+87.90

SCALE
0 10 20 30

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MARGARET ANN BRUNS
NUMBER PE-2010000798
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7/30/2025 4:14:53 PM
Margaret Ann Bruns - Civil
MO PE-2010000798

DATE PREPARED
7/30/2025

ROUTE	STATE
47	MO
DISTRICT	SHEET NO.
NE	142

COUNTY
LINCOLN

JOB NO.
JNE0003

CONTRACT ID.
.

PROJECT NO.
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BRIDGE NO.
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DESCRIPTION	DATE
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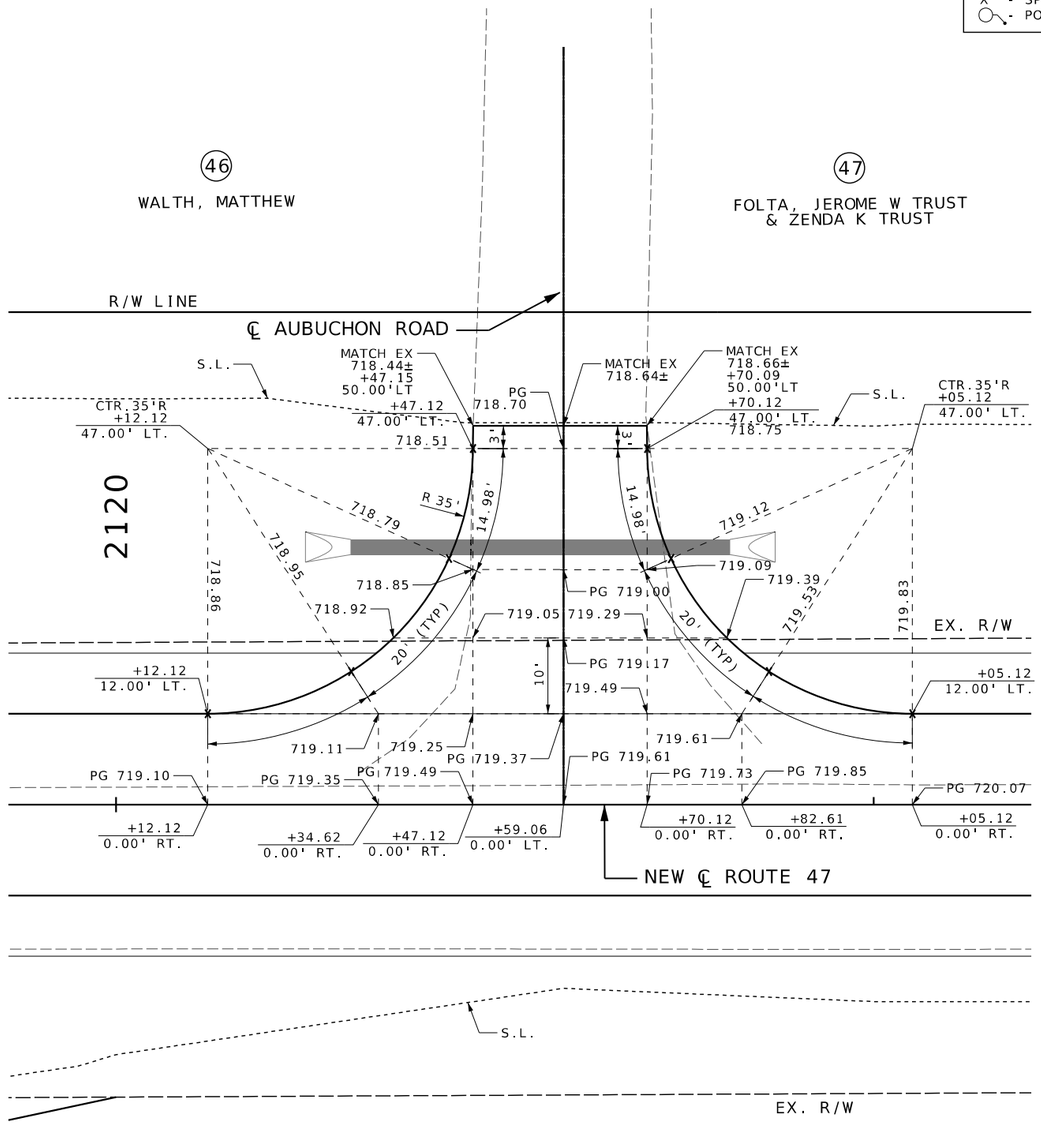
SPECIAL SHEETS
INTERSECTION
DETAILS
SHEET 3 OF 11

O:\2021R2\MoDOT_ORD_v10.10.01.03\22081 Oates MoDOT JNE0003 RTE 47\DGN\Roadway\Final\Plotsheets\142_SS_03_JNE0003_i10_Intersection Detail-BohChRd-FredNort.dgn 11:33:16 AM 7/30/2025

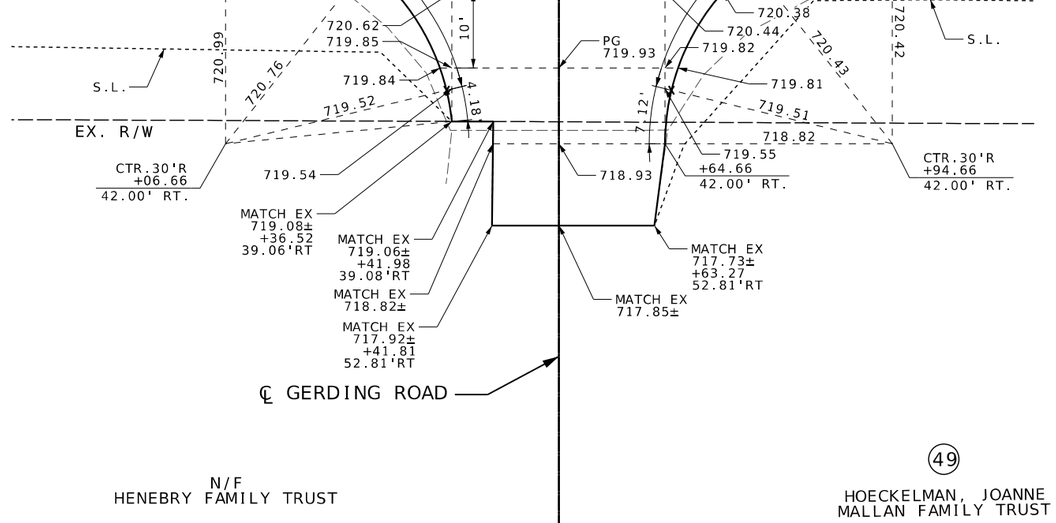
LEGEND

PG - PROFILE GRADE
X - SPOT ELEVATION
◯ - POINT IN TABLE



N/F
BROYLES, CARL E
& JOAN M

AUBUCHON ROAD
STA. 2120+59.06



N/F
HENEBRY FAMILY TRUST

49
HOECKELMAN, JOANNE
MALLAN FAMILY TRUST

SCALE
0 10 20 30

GERDING ROAD
STA. 2127+50.66

SPECIAL SHEETS
INTERSECTION
DETAILS
SHEET 4 OF 11

DISCLAIMER
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STATE OF MISSOURI
MARGARET ANN BRUNS
NUMBER PE-2010000798
PROFESSIONAL ENGINEER
7/30/2025 4:14:53 PM
Margaret Ann Bruns - Civil
MO PE:2010000798

DATE PREPARED 7/30/2025
ROUTE 47 | STATE MO
DISTRICT NE | SHEET NO. 143
COUNTY LINCOLN
JOB NO. JNE0003
CONTRACT ID. .
PROJECT NO. .
BRIDGE NO. .

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

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

EFK•Moen
Civil Engineering Design
13523 Barrett Parkway Dr
Suite 250
St Louis, MO 63021
Phone 314-394-3100
Fax 314-394-3199
Missouri Certificate of Authority: 001578

LEGEND

PG - PROFILE GRADE
X - SPOT ELEVATION
- POINT IN TABLE

SCALE
0 20 40 60

NEW ℄ ROUTE 47

+36.10 0.00' RT. PG 709.23
+66.05 0.00' RT. +59.66 0.00' RT. PG 709.09 PG 709.06
+82.10 0.00' RT. PG 708.96
+98.10 0.00' RT. +04.45 0.00' RT. PG 708.87
+28.10 0.00' RT. PG 708.83 PG 708.69

2166

708.85 20' +36.05 12.00' RT. 708.99 708.73 20' 708.66 708.14 PG 708.72 708.82 708.61 10' PG 708.52 PG 708.15 708.63 708.59 20' +28.05 12.00' RT. 708.43 20' 708.40 708.38 707.79 707.73 708.45

708.12 7.12' 707.86 7.12' 707.42

CTR.30'R +36.05 42.00' RT. EX. R/W
+66.05 42.00' RT. +66.05 43.86' RT.
MATCH EX 708.89± MATCH EX 707.80±
1.98' .86' MATCH EX 707.34±
+98.05 42.00' RT. +98.05 43.86' RT.
CTR.30'R +28.05 42.00' RT.
S.L. S.L. EX. R/W

49
HOECKELMAN, JOANNE
MALLAN FAMILY TRUST

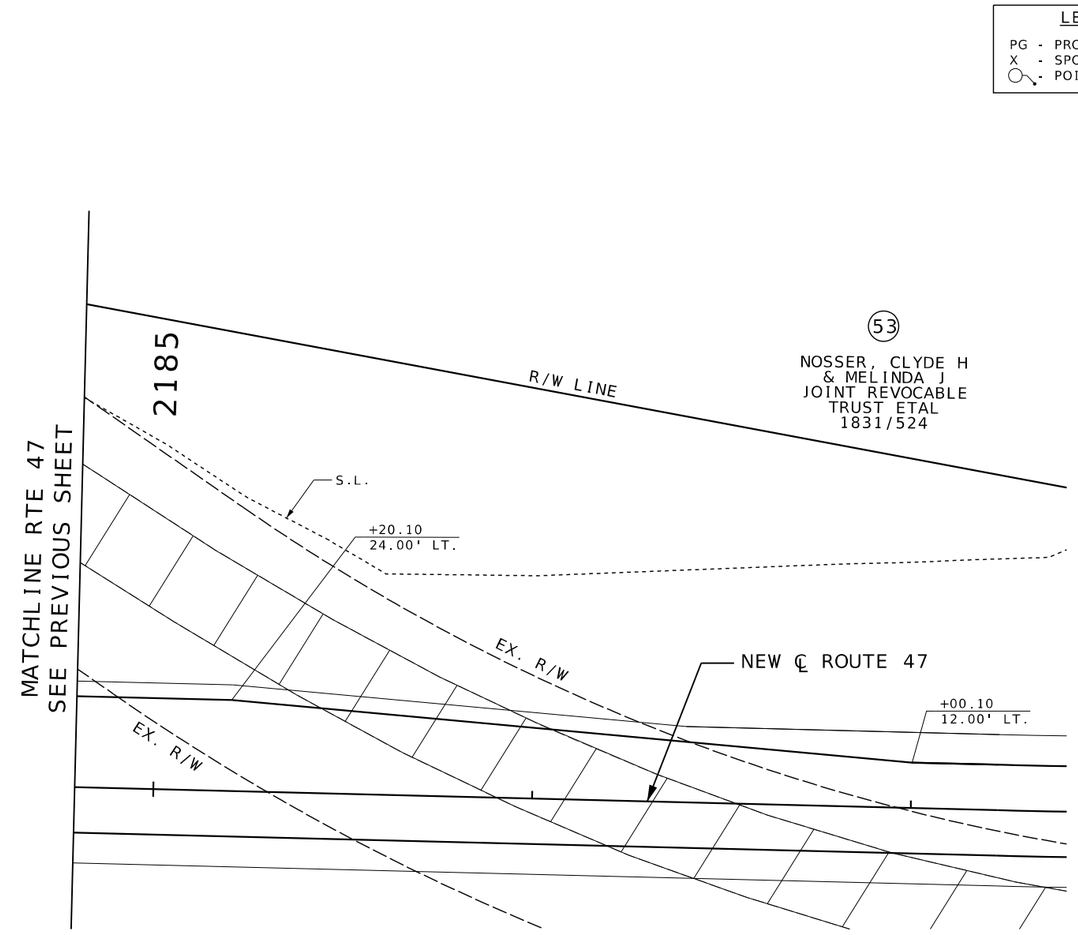
GILE ROAD
STA. 2265+82.05

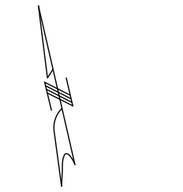
℄ GILES ROAD

MATCH EX 701.31± MATCH EX 700.73± +43.08 293.56'LT
MATCH EX 700.62± +67.08 293.82'LT
EX. R/W S.L.

℄ ROUTE AA

+67.08 177.02' LT.
PG 704.23 PG 704.35 704.11 +43.08 165.02' LT. 704.29 704.30 PG 704.49 704.55 PG 704.57 704.57 PG 704.69 704.81 704.84 PG 704.98 705.08 PG 705.18 +33.08 71.74' LT. 705.42 705.70 706.16 706.63 707.02 707.24 707.52 707.78 707.94 708.06
703.99 13.99' PG 704.37 704.12 704.13 704.33 704.30 20' 20' 20'





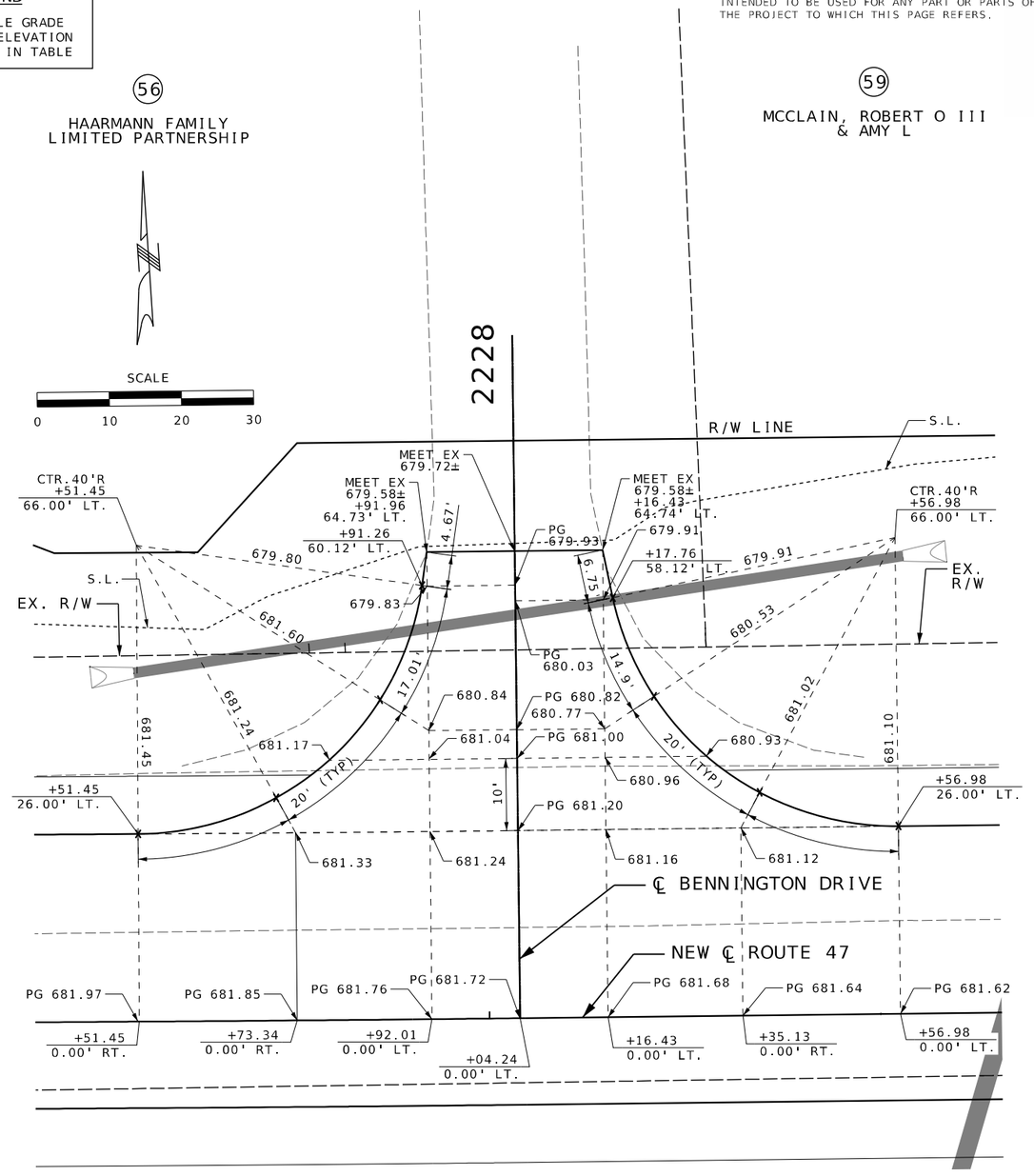
ROUTE AA
END OF TAPER

LEGEND

PG - PROFILE GRADE
X - SPOT ELEVATION
◯ - POINT IN TABLE

56
HAARMANN FAMILY
LIMITED PARTNERSHIP

59
MCCLAIN, ROBERT O III
& AMY L



BENNINGTON DRIVE
STA. 2228+04.24

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STATE OF MISSOURI
MARGARET ANN BRUNS
NUMBER PE-2010000798
PROFESSIONAL ENGINEER
7/30/2025 4:14:53 PM
Margaret Ann Bruns - Civil
MO PE:2010000798

DATE PREPARED
7/30/2025

ROUTE	STATE
47	MO
DISTRICT	SHEET NO.
NE	145

COUNTY
LINCOLN

JOB NO.
JNE0003

CONTRACT ID.
.

PROJECT NO.
.

BRIDGE NO.
.

DESCRIPTION	DATE
.	.

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

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

EFK•Moen
Civil Engineering Design
13523 Barrett Parkway Dr
Suite 250
St Louis, MO 63021
Phone 314-394-3100
Fax 314-394-3199
Missouri Certificate of Authority: 001578

SPECIAL SHEETS
INTERSECTION
DETAILS
SHEET 6 OF 11

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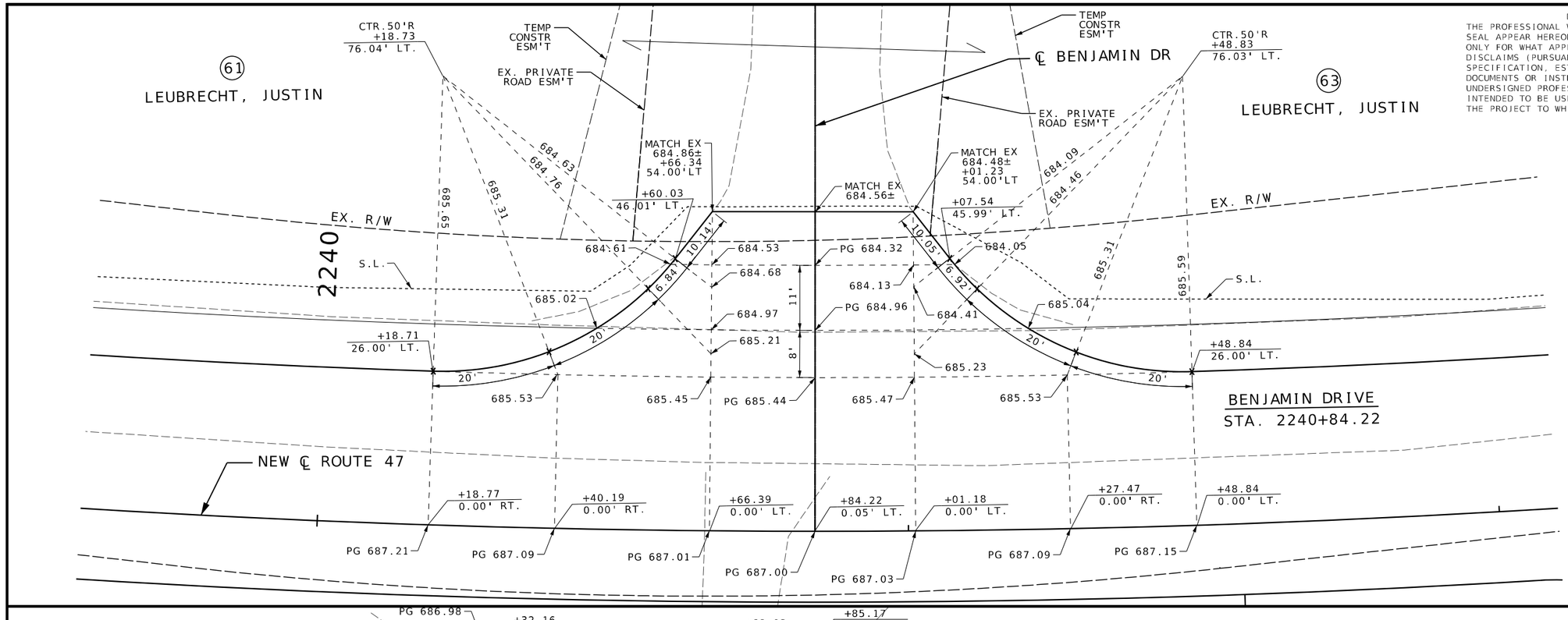

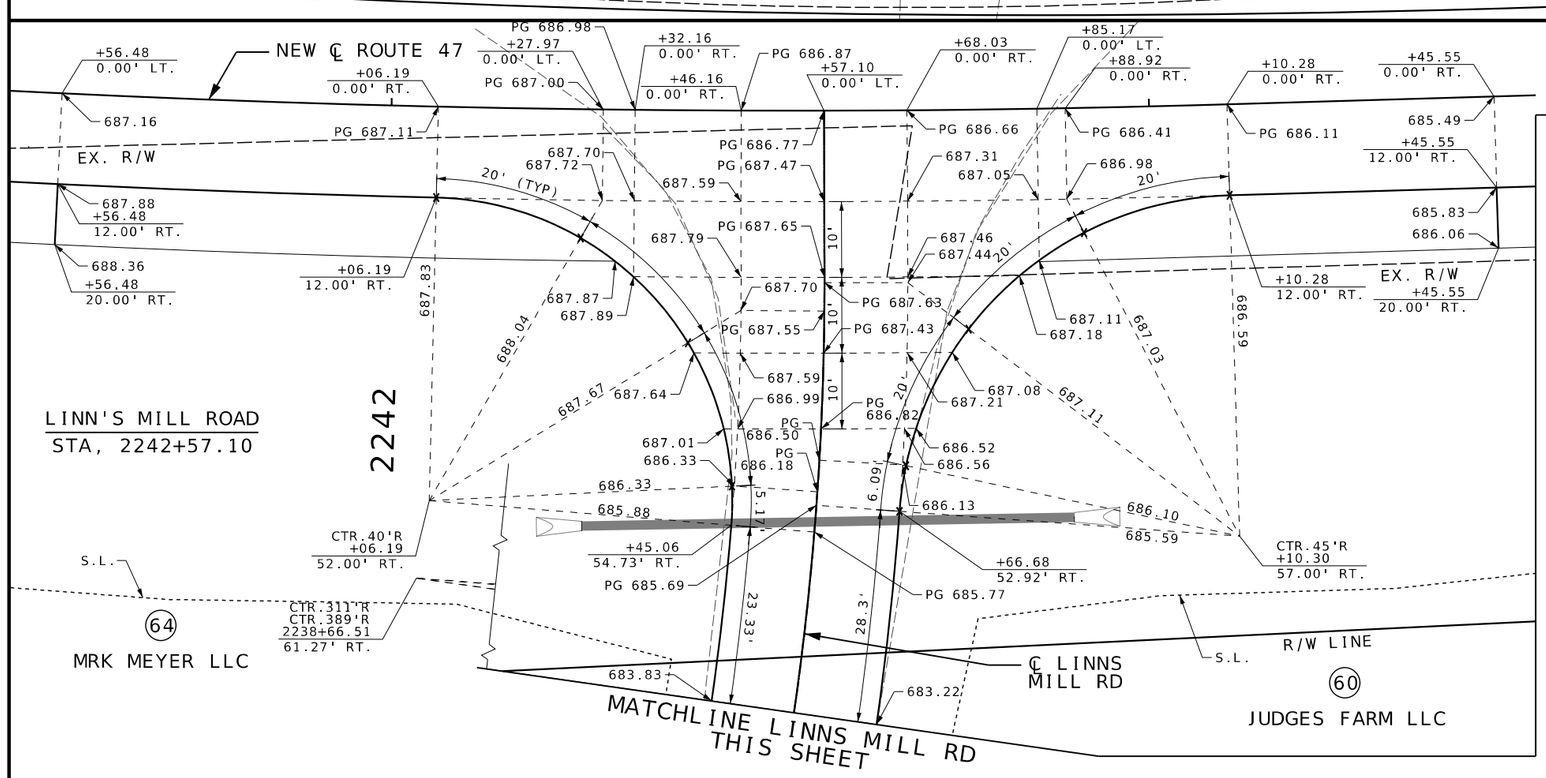

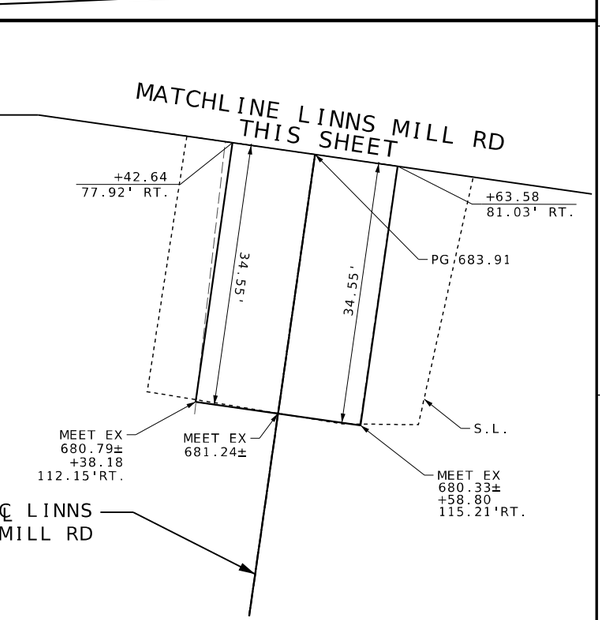

SPECIAL SHEETS
INTERSECTION
DETAILS
SHEET 7 OF 11

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED
8/27/2025

ROUTE	STATE
47	MO
DISTRICT	SHEET NO.
NE	146

COUNTY
LINCOLN

JOB NO.
JNE0003

CONTRACT ID.
.

PROJECT NO.
.

BRIDGE NO.
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DESCRIPTION	DATE
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MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
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JEFFERSON CITY, MO 65102
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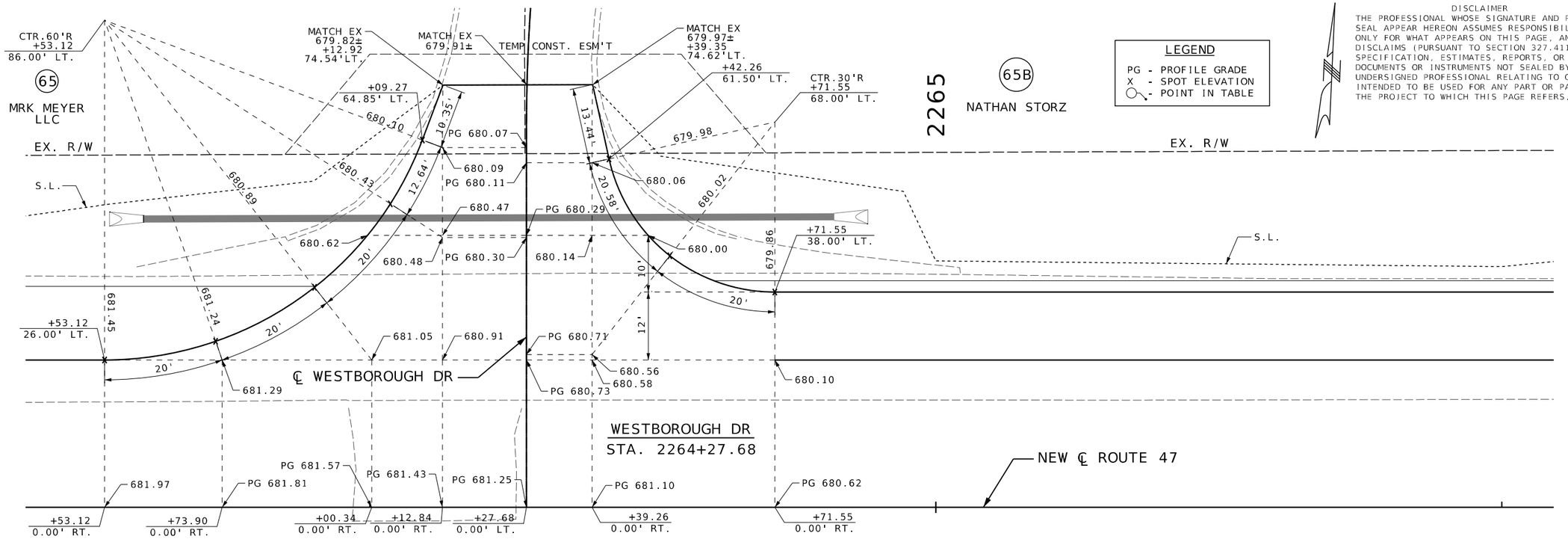

LEGEND

PG - PROFILE GRADE
X - SPOT ELEVATION
○- POINT IN TABLE

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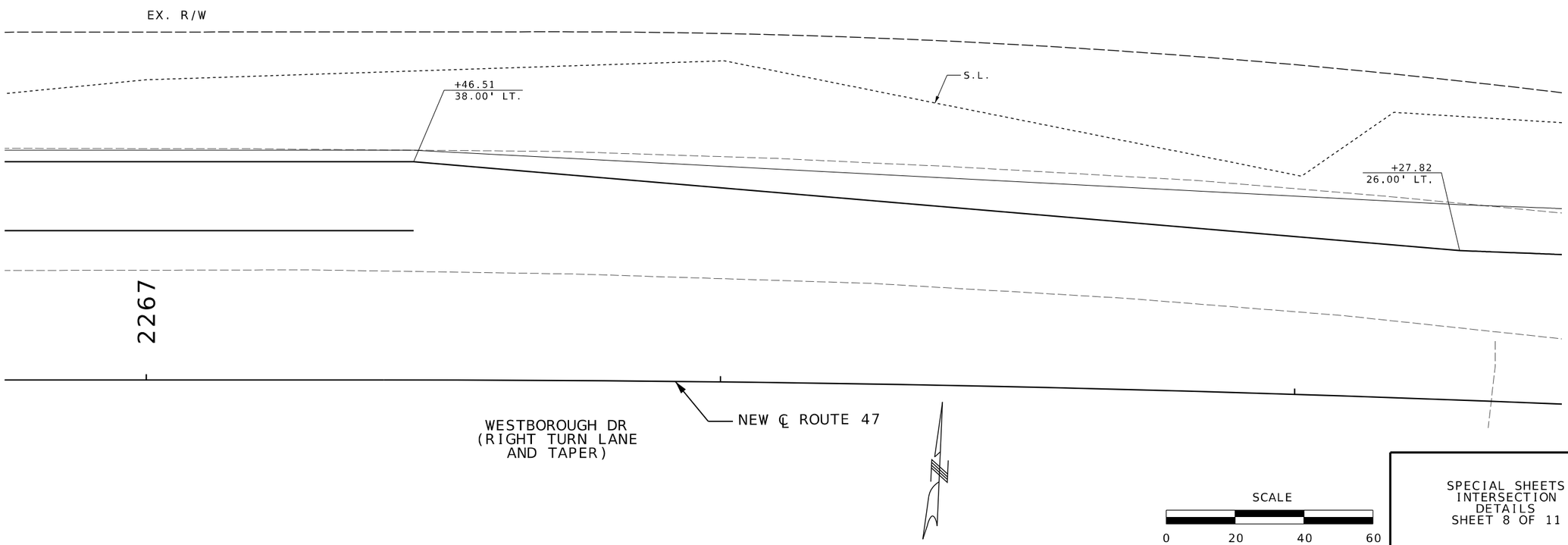

SCALE
0 20 40 60

SPECIAL SHEETS
INTERSECTION
DETAILS
SHEET 8 OF 11

STATE OF MISSOURI
PROFESSIONAL ENGINEER
MARGARET ANN BRUNS
NUMBER PE-2010000798
7/30/2025 4:14:53 PM
Margaret Ann Bruns - Civil
MO PE:2010000798

DATE PREPARED
7/30/2025

ROUTE	STATE
47	MO
DISTRICT	SHEET NO.
NE	147

COUNTY
LINCOLN

JOB NO.
JNE0003

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

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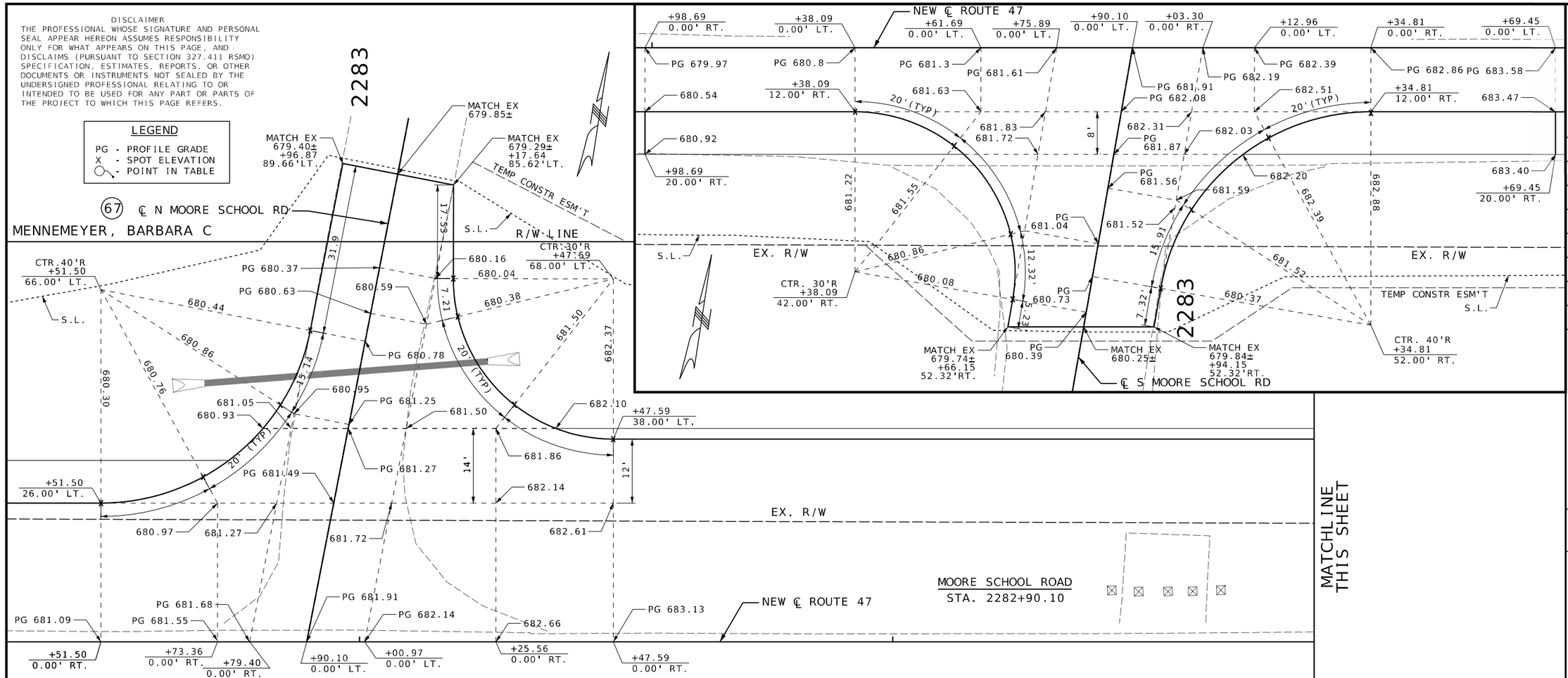

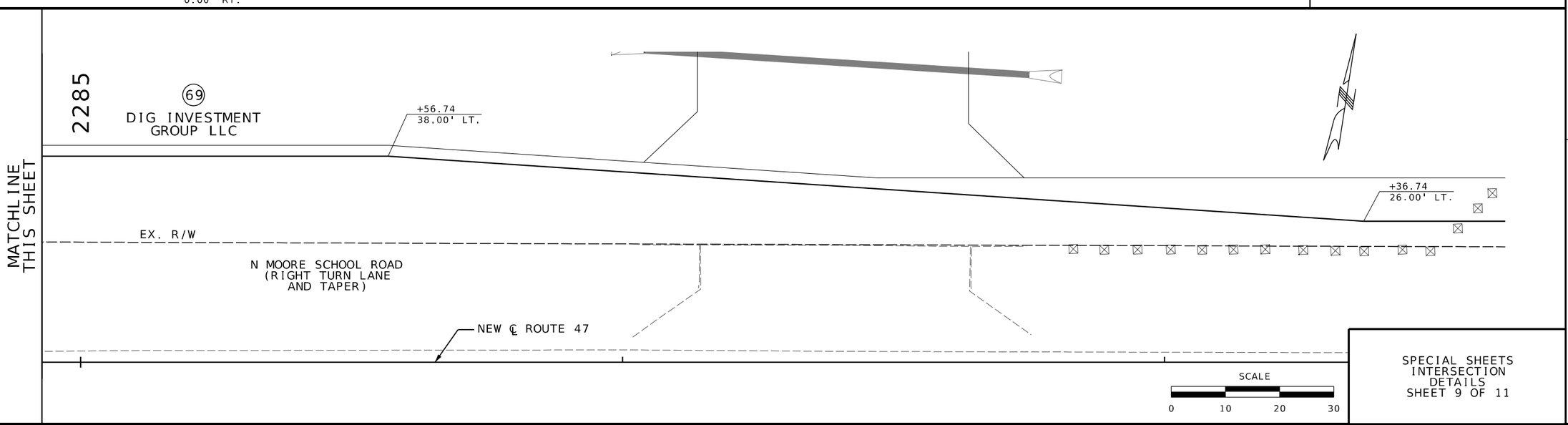

SPECIAL SHEETS
INTERSECTION DETAILS
SHEET 9 OF 11

STATE OF MISSOURI
PROFESSIONAL ENGINEER
MARGARET ANN BRUNS
NUMBER PE-2010000798
7/30/2025 4:14:53 PM
Margaret Ann Bruns - Civil
MO PE-2010000798

DATE PREPARED 7/30/2025

ROUTE	STATE
47	MO
DISTRICT	SHEET NO.
NE	148

COUNTY: LINCOLN
JOB NO.: JNE0003
CONTRACT ID.:
PROJECT NO.:
BRIDGE NO.:

DESCRIPTION	DATE

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

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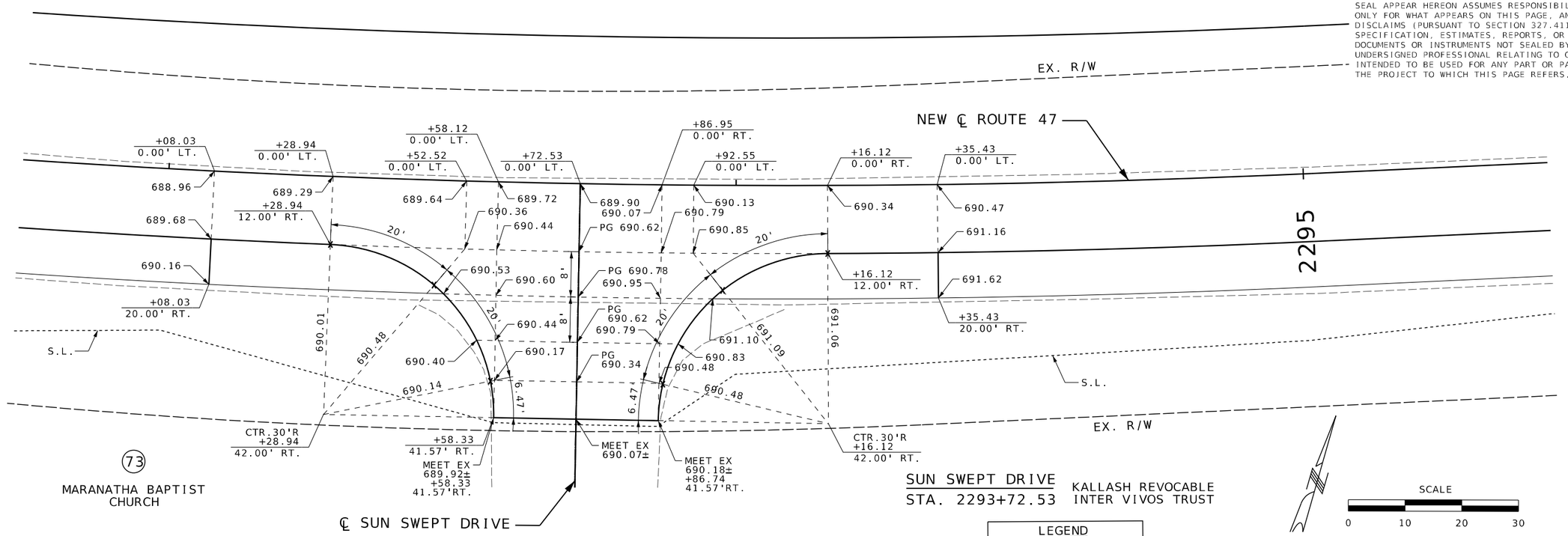
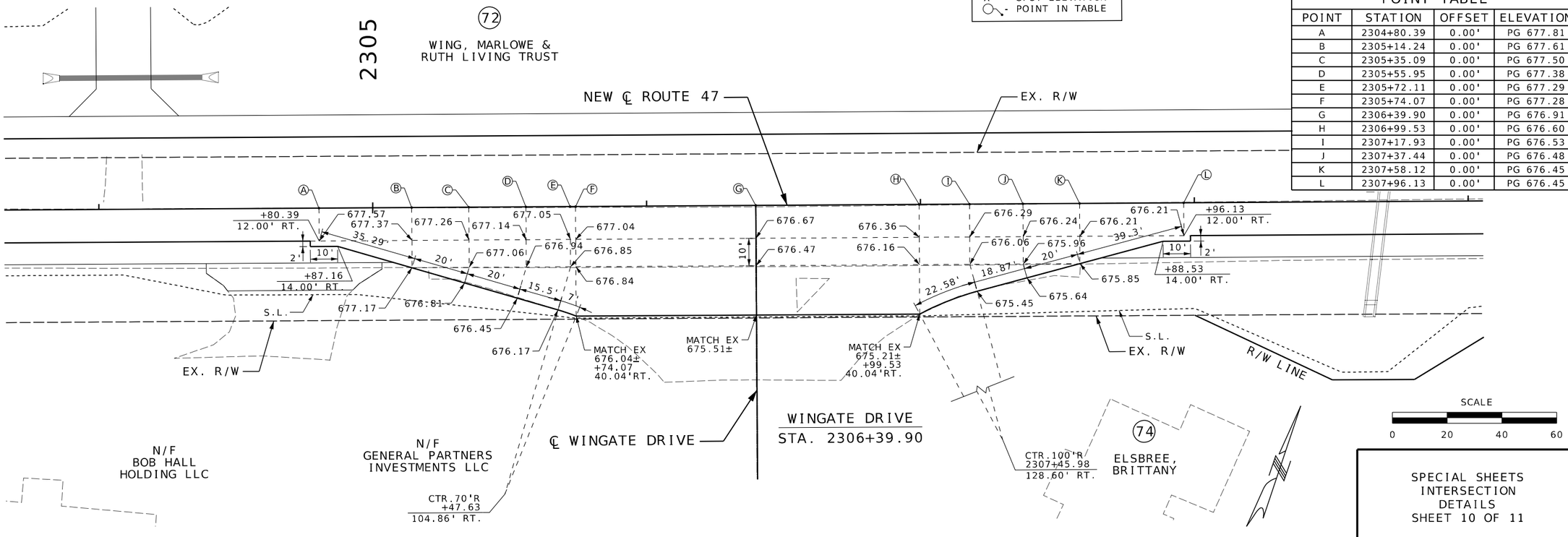


LEGEND

PG - PROFILE GRADE
X - SPOT ELEVATION
○- POINT IN TABLE

POINT TABLE			
POINT	STATION	OFFSET	ELEVATION
A	2304+80.39	0.00'	PG 677.81
B	2305+14.24	0.00'	PG 677.61
C	2305+35.09	0.00'	PG 677.50
D	2305+55.95	0.00'	PG 677.38
E	2305+72.11	0.00'	PG 677.29
F	2305+74.07	0.00'	PG 677.28
G	2306+39.90	0.00'	PG 676.91
H	2306+99.53	0.00'	PG 676.60
I	2307+17.93	0.00'	PG 676.53
J	2307+37.44	0.00'	PG 676.48
K	2307+58.12	0.00'	PG 676.45
L	2307+96.13	0.00'	PG 676.45



SPECIAL SHEETS
INTERSECTION
DETAILS
SHEET 10 OF 11

STATE OF MISSOURI
PROFESSIONAL ENGINEER
MARGARET ANN BRUNS
NUMBER PE-2010000798
7/30/2025 4:14:53 PM
Margaret Ann Bruns - Civil
MO PE:2010000798

DATE PREPARED
7/30/2025

ROUTE	STATE
47	MO
DISTRICT	SHEET NO.
NE	149

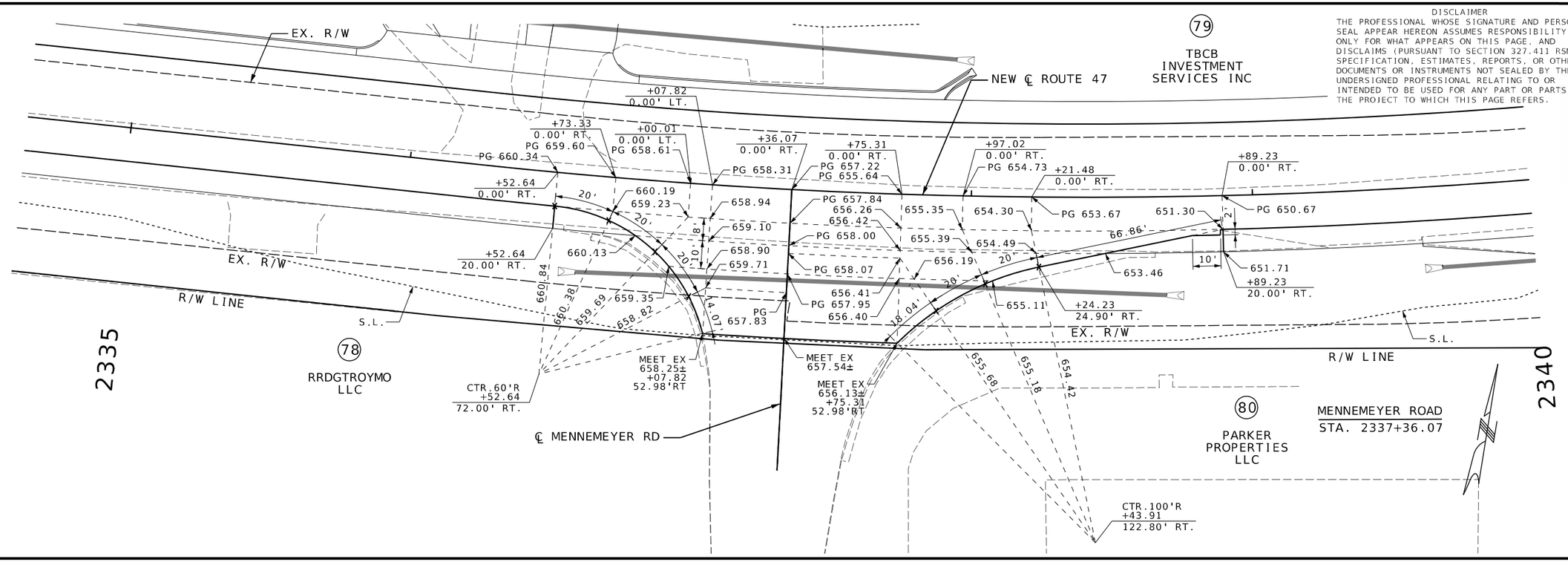
COUNTY
LINCOLN
JOB NO.
JNE0003
CONTRACT ID.
PROJECT NO.
BRIDGE NO.

DESCRIPTION | DATE

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

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

EFK•Moen
Civil Engineering Design
13523 Barrett Parkway Dr
Suite 250
St. Louis, MO 63021
Phone 314-394-3100
Fax 314-394-3199
Missouri Certificate of Authority: 001578



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STATE OF MISSOURI
MARGARET ANN BRUNS
NUMBER PE-2010000798
PROFESSIONAL ENGINEER

7/30/2025 4:14:53 PM
Margaret Ann Bruns - Civil
MO PE-2010000798

DATE PREPARED
7/30/2025

ROUTE	STATE
47	MO
DISTRICT	SHEET NO.
NE	150

COUNTY
LINCOLN

JOB NO.
JNE0003

CONTRACT ID.
.

PROJECT NO.
.

BRIDGE NO.
.

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

DESCRIPTION

DATE

POINT TABLE			
POINT	STATION	OFFSET	ELEVATION
A	2341+39.06	0.00'	PG 643.14
B	2341+58.72	0.00'	PG 642.82
C	2341+80.33	0.00'	PG 642.51
D	2341+95.67	0.00'	PG 642.31
E	2342+08.38	0.00'	PG 642.17
F	2342+15.56	0.00'	PG 642.10
G	2342+48.38	0.00'	PG 641.84
H	2342+50.06	0.00'	PG 641.83
I	2342+68.78	0.00'	PG 641.71
J	2342+87.07	0.00'	PG 641.60
K	2342+89.17	0.00'	PG 641.59
L	2342+91.25	0.00'	PG 641.57
M	2343+05.94	0.00'	PG 641.48
N	2343+17.51	0.00'	PG 641.41
O	2343+33.39	0.00'	PG 641.32
P	2343+41.74	0.00'	PG 641.27
Q	2343+59.96	0.00'	PG 641.19
R	2343+62.49	0.00'	PG 641.18
S	2343+91.27	0.00'	PG 641.07
T	2343+92.29	0.00'	PG 641.07
U	2344+03.30	0.00'	PG 641.04
V	2344+23.91	0.00'	PG 641.00
W	2344+34.31	0.00'	PG 640.99
X	2344+74.31	0.00'	PG 640.99

LEGEND
PG - PROFILE GRADE
X - SPOT ELEVATION
◯ - POINT IN TABLE

SCALE
0 20 40 60

SPECIAL SHEETS
INTERSECTION
DETAILS
SHEET 11 OF 11

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

EFK•Moen
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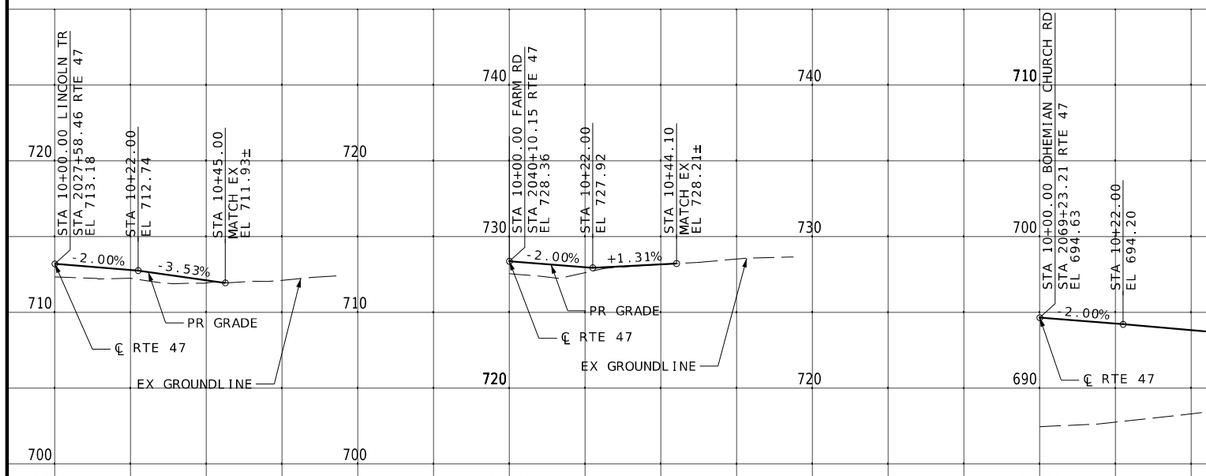
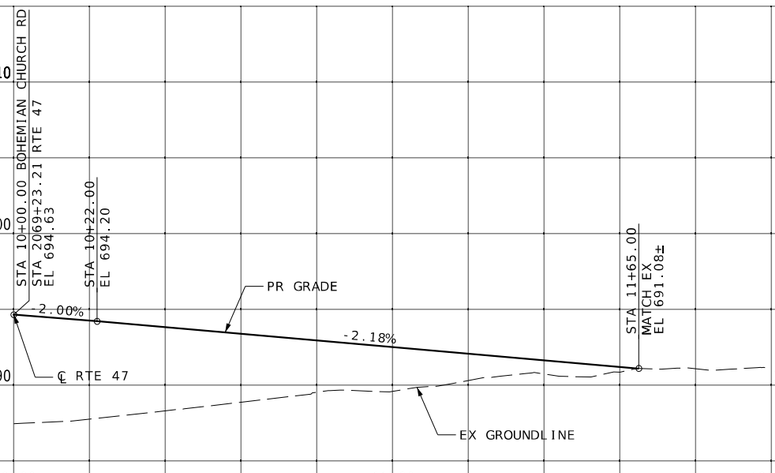
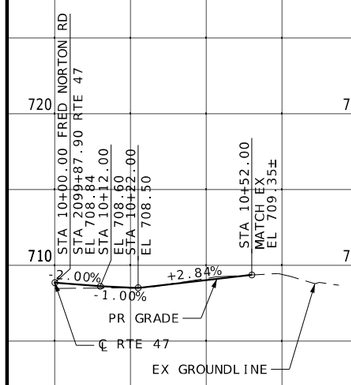


LINCOLN TRAIL
ROUTE 47 - STA 2027+58.46

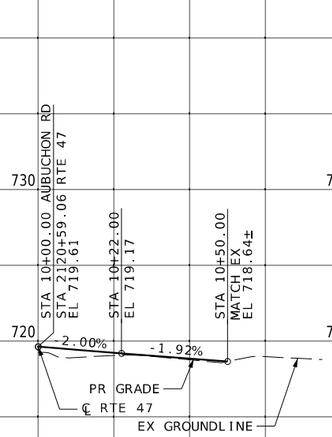
FARM RD
ROUTE 47 - STA 2040+10.15



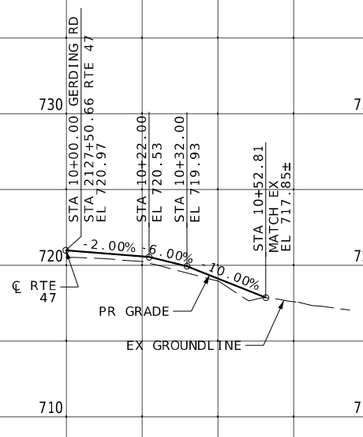
BOHEMIAN CHURCH RD
ROUTE 47 - STA 2069+23.21



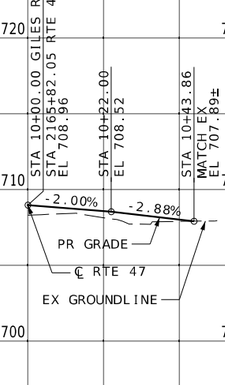
FRED NORTON RD
ROUTE 47 - STA 2099+87.90



AUBUCHON RD
ROUTE 47 - STA 2120+59.06



GERDING RD
ROUTE 47 - STA 2127+50.66



GILES RD
ROUTE 47 - STA 2165+82.05

ENTRANCE PROFILES
SHEET 1 OF 3

EFK•Moen
Civil Engineering Design
13523 Barrett Parkway Dr
Suite 250
St. Louis, MO 63021
Phone 314-394-3100
Fax 314-394-3199
Missouri Certificate of Authority: 001578

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7/30/2025

ROUTE	STATE
47	MO
DISTRICT	SHEET NO.
NE	151

COUNTY
LINCOLN

JOB NO.
JNE0003

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

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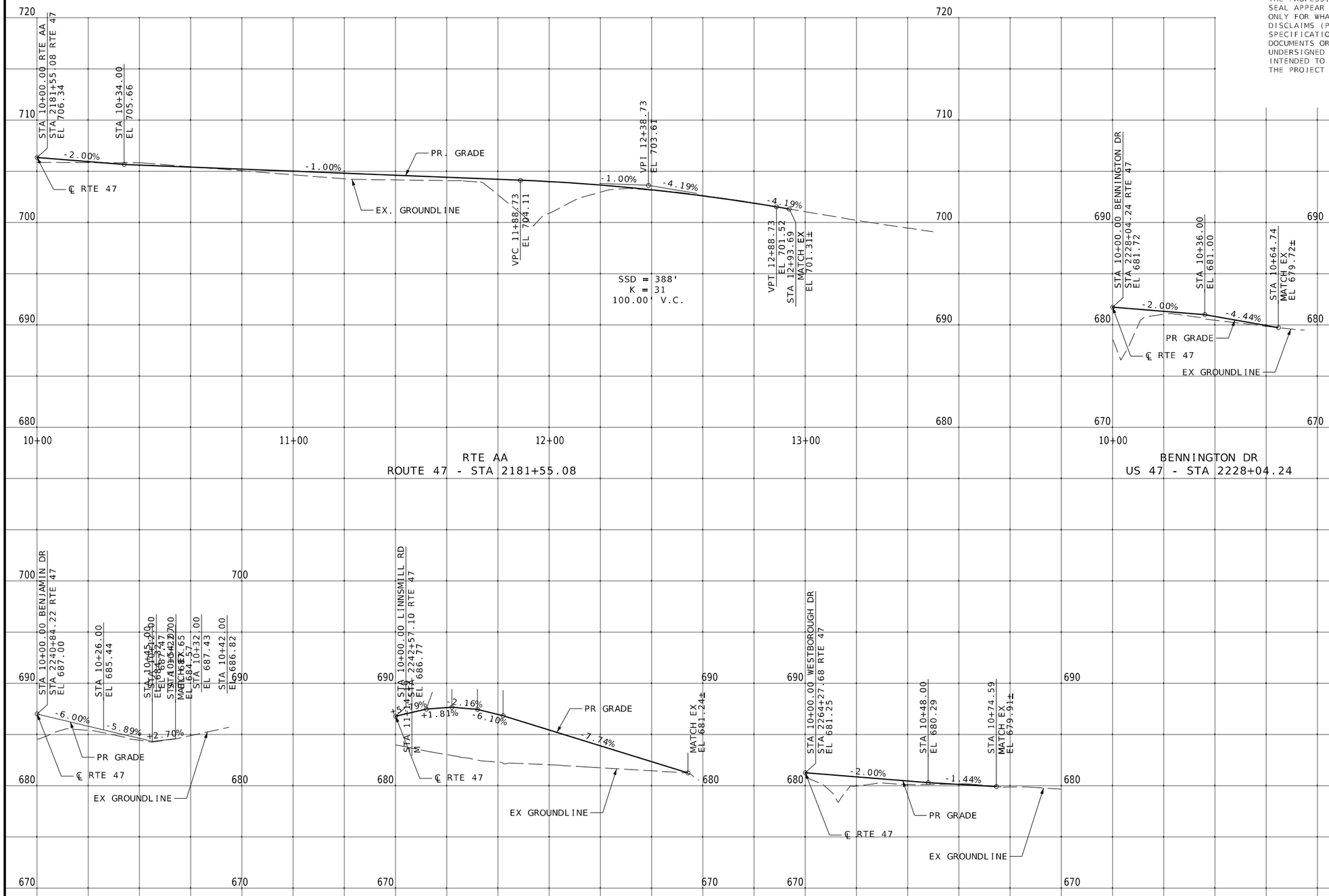

ENTRANCE PROFILES
SHEET 2 OF 3

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

STATE OF MISSOURI
MARGARET ANN BRUNS
NUMBER PE-2010000798
PROFESSIONAL ENGINEER
7/30/2025 4:14:53 PM
Margaret Ann Bruns - Civil
MO PE-2010000798

DATE PREPARED	
7/30/2025	
ROUTE 47	STATE MO
DISTRICT NE	SHEET NO. 152
COUNTY LINCOLN	
JOB NO. JNE0003	
CONTRACT ID. .	
PROJECT NO. .	
BRIDGE NO. .	

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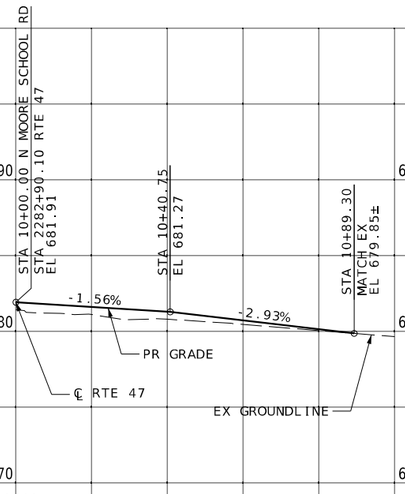
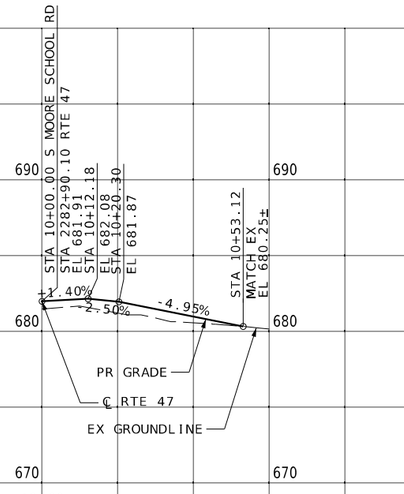
MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

EFK•Moen
Civil Engineering Design
13523 Barrett Parkway Dr
Suite 250
St. Louis, MO 63021
Phone 314-394-3100
Fax 314-394-3199
Missouri Certificate of Authority: 001578



N MOORE SCHOOL RD
ROUTE 47 - STA 2282+90.10



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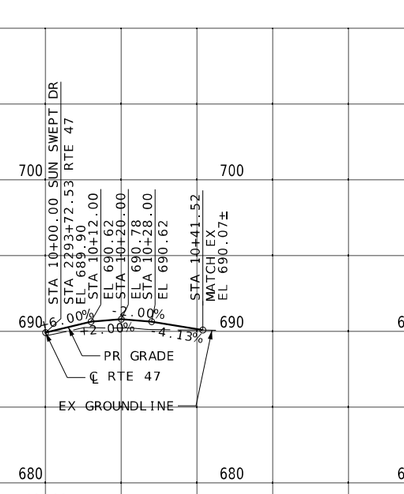
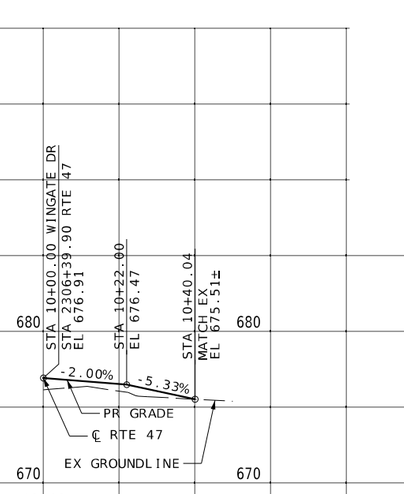
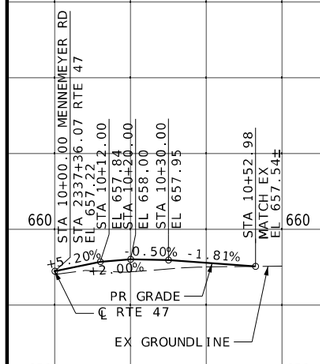
ROUTE 47 - STA 2282+90.10



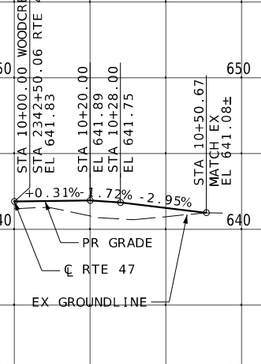
SUN SWEPT DR
ROUTE 47 - STA 2293+72.53



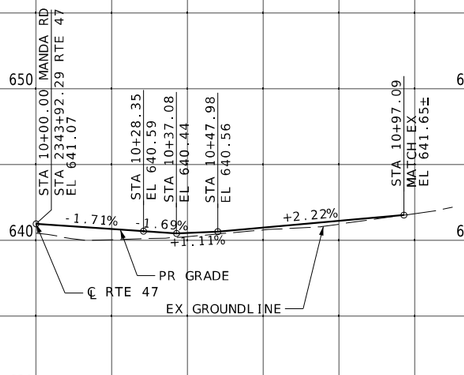
WINGATE DR
ROUTE 47 - STA 2306+39.90



MENNEMEYER RD
ROUTE 47 - STA 2337+36.07



WOODCREST DR
US 47 - STA 2342+50.06



MANDA RD
ROUTE 47 - STA 2343+92.29

5'
20'

ENTRANCE PROFILES
SHEET 3 OF 3

DISCLAIMER
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STATE OF MISSOURI
MARGARET ANN BRUNS
NUMBER PE-2010000798
PROFESSIONAL ENGINEER

7/30/2025 4:14:53 PM
Margaret Ann Bruns - Civil
MO PE-2010000798

DATE PREPARED
7/30/2025

ROUTE	STATE
47	MO
DISTRICT	SHEET NO.
NE	153

COUNTY
LINCOLN

JOB NO.
JNE0003

CONTRACT ID.
.

PROJECT NO.
.

BRIDGE NO.
.

DESCRIPTION	DATE
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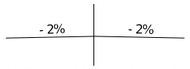
MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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

EFK•Moen
Civil Engineering Design
13523 Barrett Parkway Dr
Suite 250
St. Louis, MO 63021
Phone 314-394-3100
Fax 314-394-3199
Missouri Certificate of Authority: 001578

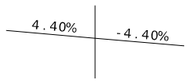
SUPERELEVATION TABLE RT 47
REVERSE CURVE 1 WEST



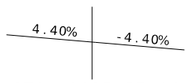
STA. 2130+95.01

STA. 2131+43.19

STA. 2131+91.38

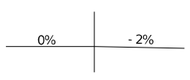


STA. 2132+49.19

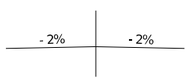


STA. 2135+57.14

STA. 2136+14.95

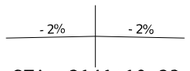


STA. 2136+63.14

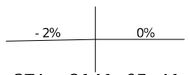


STA. 2137+11.32

SUPERELEVATION TABLE RT 47
REVERSE CURVE 1 EAST

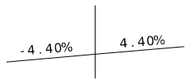


STA. 2141+19.23



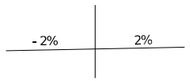
STA. 2141+67.41

STA. 2142+15.60

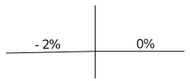


STA. 2142+73.41

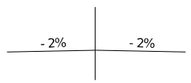
STA. 2145+77.81



STA. 2146+35.62

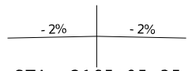


STA. 2146+83.81

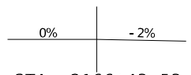


STA. 2147+31.99

SUPERELEVATION TABLE RT 47
REVERSE CURVE 2 WEST

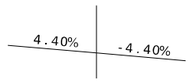


STA. 2165+95.35

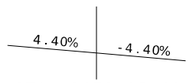


STA. 2166+43.53

STA. 2166+91.72



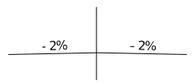
STA. 2167+49.53



STA. 2173+95.48

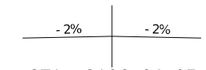
STA. 2174+53.29

STA. 2175+01.48



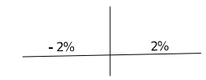
STA. 2175+49.66

SUPERELEVATION TABLE RT 47
REVERSE CURVE 2 EAST

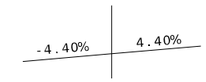


STA. 2186+04.07

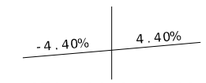
STA. 2186+52.25



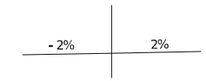
STA. 2187+00.44



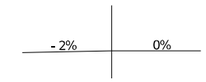
STA. 2187+58.25



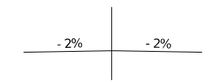
STA. 2193+27.02



STA. 2193+84.83

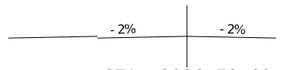


STA. 2194+33.02

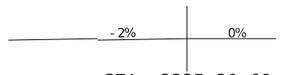


STA. 2194+81.20

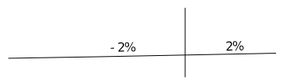
SUPERELEVATION TABLE RT 47
RT 47 AT BENJAMIN DR.



STA. 2236+70.69



STA. 2237+30.69



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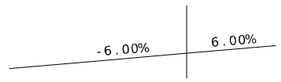
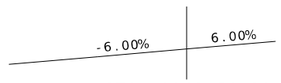
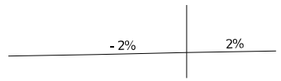


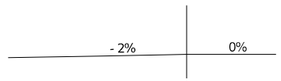
STA. 2239+10.69



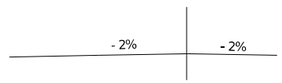
STA. 2242+51.32



STA. 2243+71.32



STA. 2244+31.32



STA. 2244+91.32

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SUPERELEVATION TABLES
SHEET 1 OF 2

STATE OF MISSOURI
JEFFREY R. RENSING
NUMBER PE-2006012376
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED
8/26/2025

ROUTE	STATE
47	MO
DISTRICT	SHEET NO.
NE	154

COUNTY
LINCOLN

JOB NO.
JNE0003

CONTRACT ID.
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PROJECT NO.
.

BRIDGE NO.
.

DESCRIPTION	DATE
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MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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

Collinsville
100 Lamer Court, Suite 1
Collinsville, IL 62234
618.343.2200

St. Louis
720 Olive, Suite 700
St. Louis, MO 63101
314.588.8381

St. Charles
820 South Main, Suite 309
St. Charles, MO 63301
636.493.8277

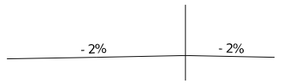
Belleville
1 South Church, Suite 200
Belleville, IL 62220
618.416.4488

www.oatesassociates.com

MISSOURI DESIGN FIRM PE-001166

OATES ASSOCIATES

SUPERELEVATION TABLE RT 47



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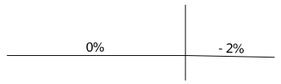
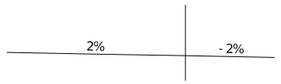
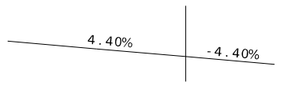


STA. 2252+65.76

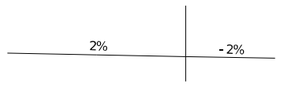


STA. 2253+25.98

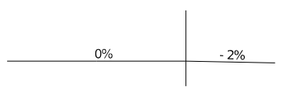
STA. 2253+98.26



STA. 2257+04.64



STA. 2257+76.92



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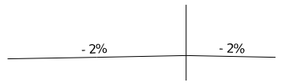
STA. 2258+97.37

SUPERELEVATION TABLE RT 47
WIDENING TRANSITION



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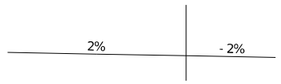
STA. 2266+85.55



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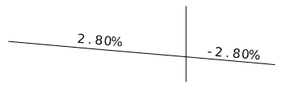
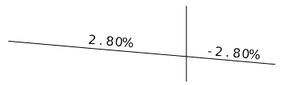


STA. 2267+69.30



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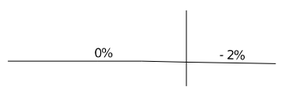

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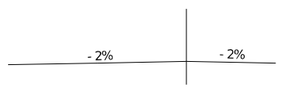
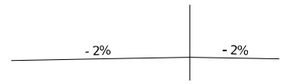


STA. 2276+39.72

SUPERELEVATION TABLE RT 47
WIDENING TRANSITION



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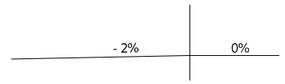

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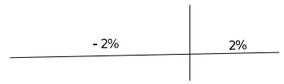

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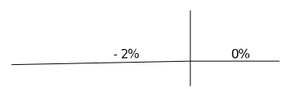
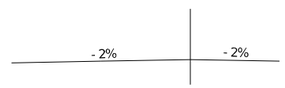
STA. 2279+96.80

STA. 2281+01.83

STA. 2282+81.83

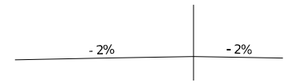


STA. 2283+41.83



STA. 2284+01.83

SUPERELEVATION TABLE RT 47
RT 47 AT SUN SWEPT DR.



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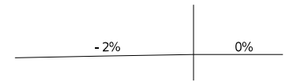
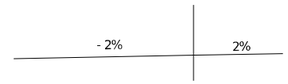


STA. 2290+40.95



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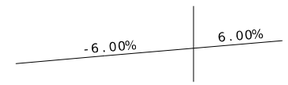
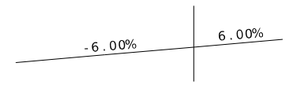


STA. 2292+20.95



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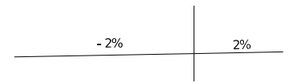

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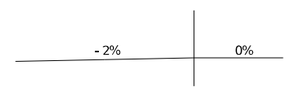

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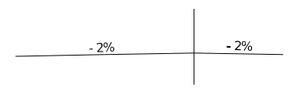
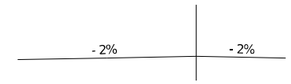
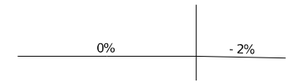


STA. 2296+81.38

SUPERELEVATION TABLE RT 47



STA. 2307+15.29



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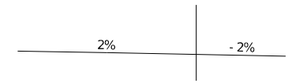

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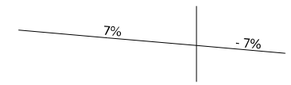
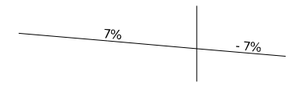
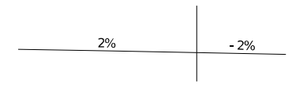


STA. 2309+85.29

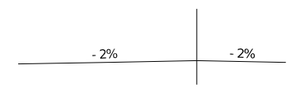


STA. 2312+48.01



STA. 2313+98.01

STA. 2314+58.01



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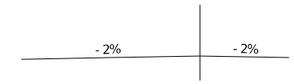
SUPERELEVATION TABLE RT 47
RT 47 AT MENNEMEYER RD.



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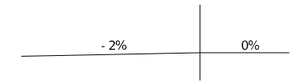

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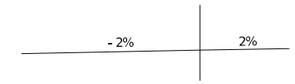

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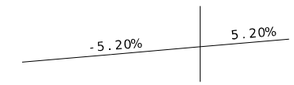

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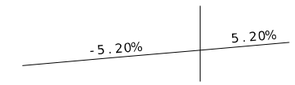
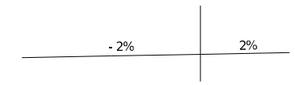
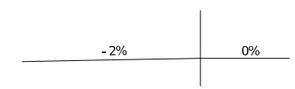


STA. 2341+03.00



STA. 2341+99.15



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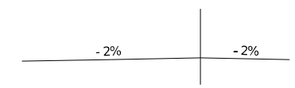

STA. 2343+19.34

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SUPERELEVATION TABLES
SHEET 2 OF 2

STATE OF MISSOURI
JEFFREY R. RENSING
NUMBER PE-2006012376
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED
8/26/2025

ROUTE	STATE
47	MO
DISTRICT	SHEET NO.
NE	155

COUNTY
LINCOLN

JOB NO.
JNE0003

CONTRACT ID.
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PROJECT NO.
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BRIDGE NO.
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DESCRIPTION	DATE
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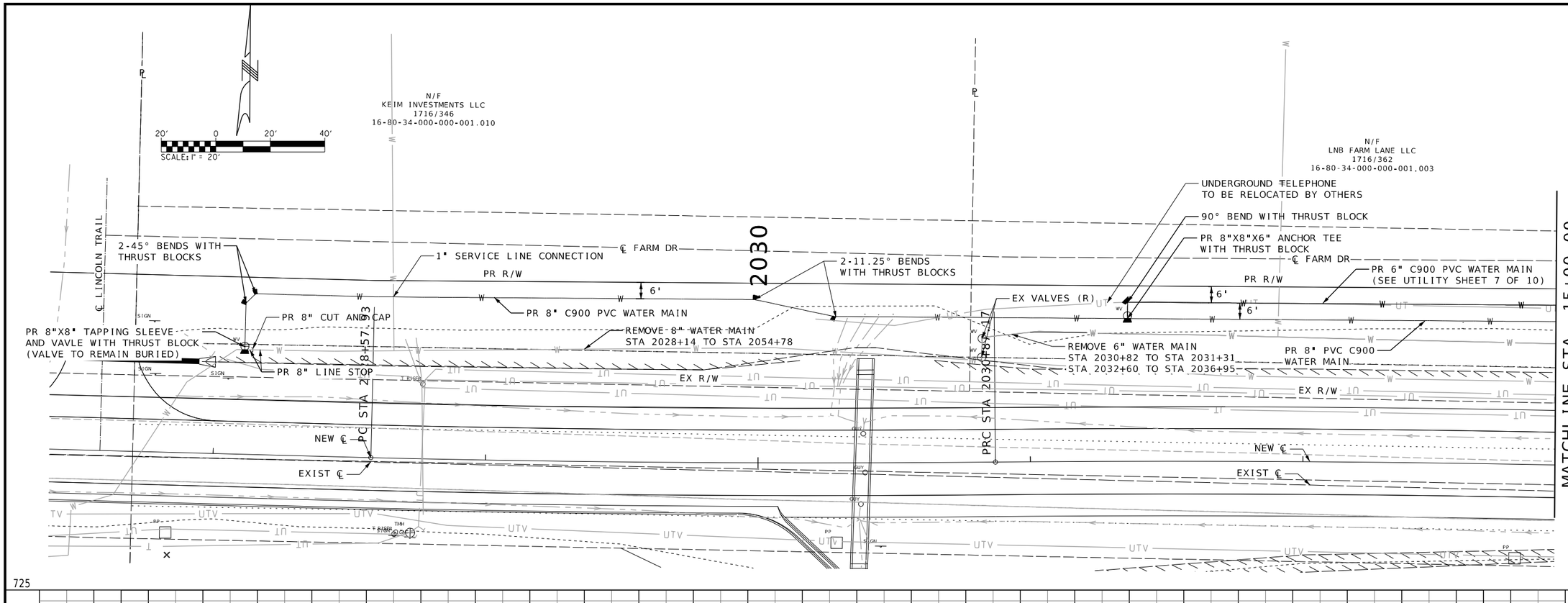

STATE OF MISSOURI
JEFFREY R. RENSING
NUMBER PE-2006012376
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED
9/4/2025

ROUTE	STATE
47	MO
DISTRICT	SHEET NO.
NE	156

COUNTY
LINCOLN

JOB NO.
JNE0003

CONTRACT ID.
.

PROJECT NO.
.

BRIDGE NO.
.

DATE	DESCRIPTION
.	.

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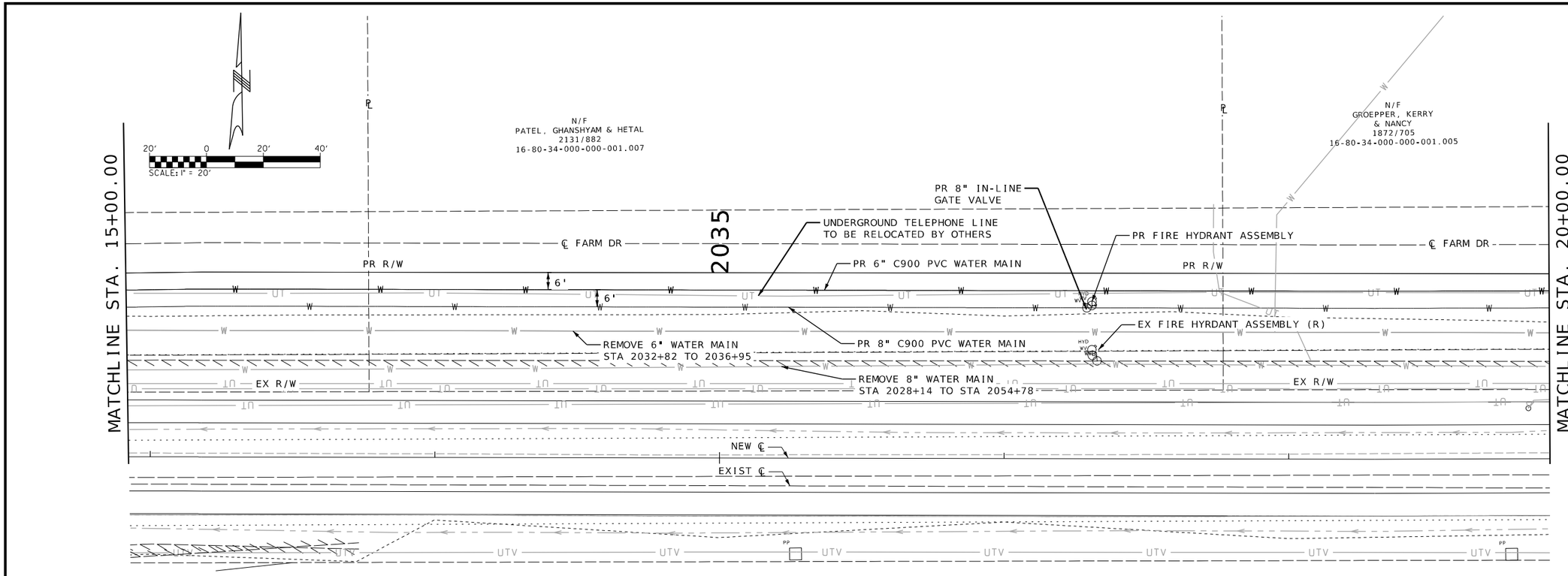

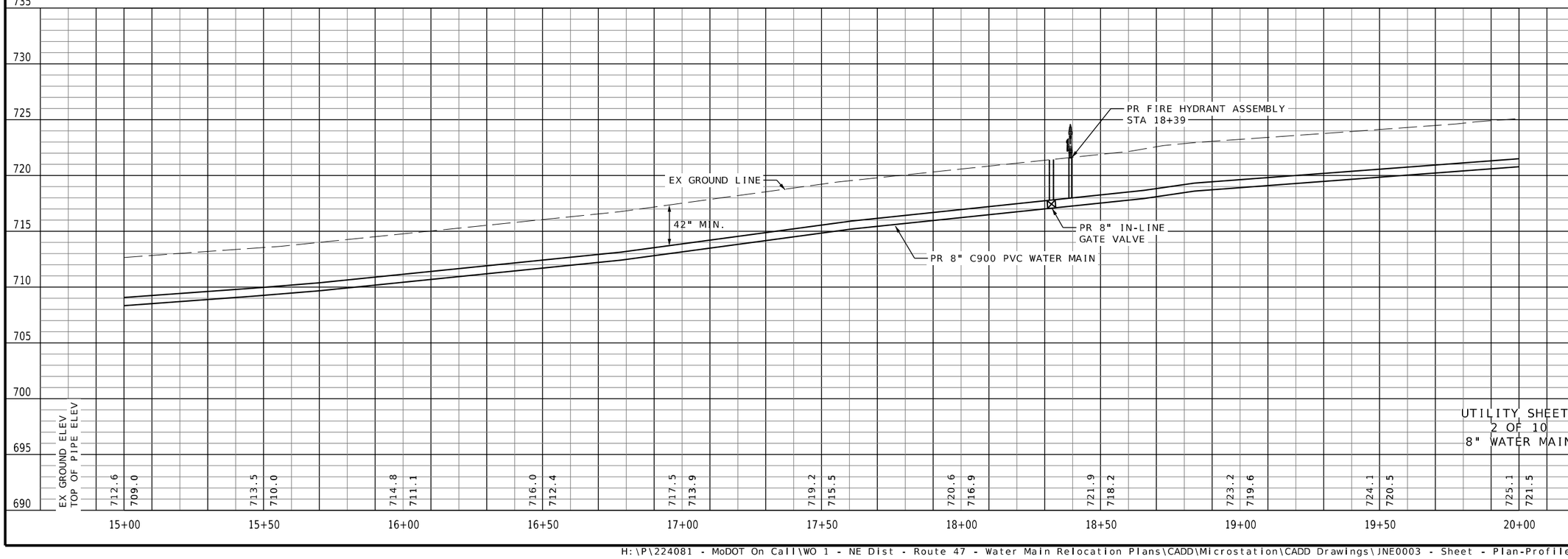

STATE OF MISSOURI
JEFFREY R. RENSING
NUMBER PE-2006012376
PROFESSIONAL ENGINEER

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DATE PREPARED
9/4/2025

ROUTE	STATE
47	MO
DISTRICT	SHEET NO.
NE	157

COUNTY
LINCOLN

JOB NO.
JNE0003

CONTRACT ID.
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PROJECT NO.
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BRIDGE NO.
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DESCRIPTION	DATE
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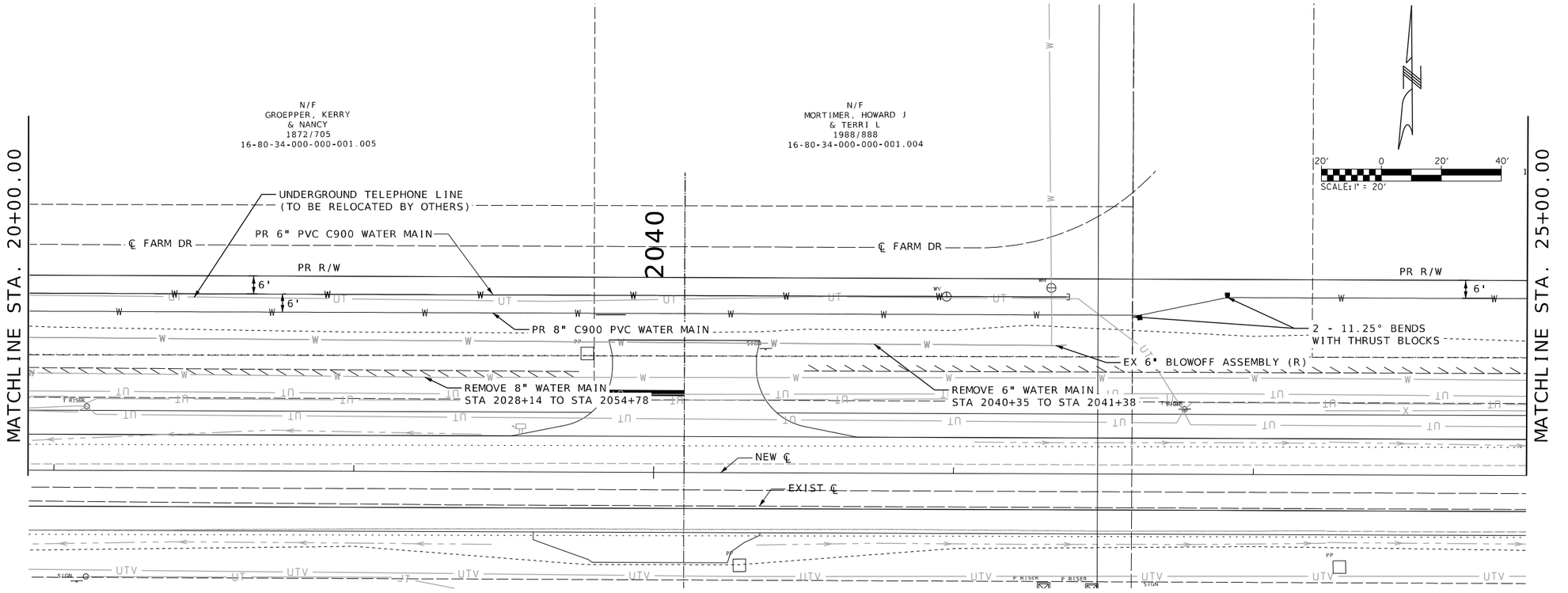

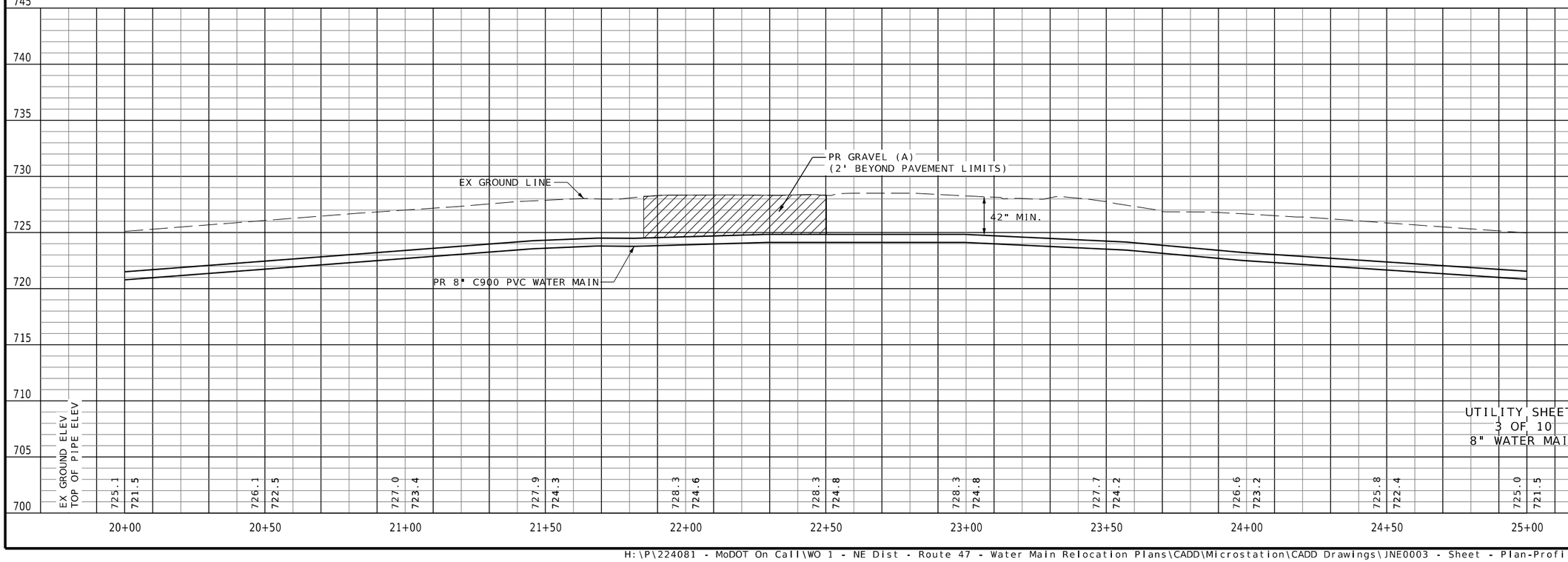

UTILITY SHEETS
3 OF 10
8" WATER MAIN

STATE OF MISSOURI
JEFFREY R. RENSING
NUMBER PE-2006012376
PROFESSIONAL ENGINEER

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DATE PREPARED
9/4/2025

ROUTE	STATE
47	MO
DISTRICT	SHEET NO.
NE	158

COUNTY
LINCOLN

JOB NO.
JNE0003

CONTRACT ID.
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PROJECT NO.
.

BRIDGE NO.
.

DATE	DESCRIPTION
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MISSOURI DESIGN FIRM PE-001166

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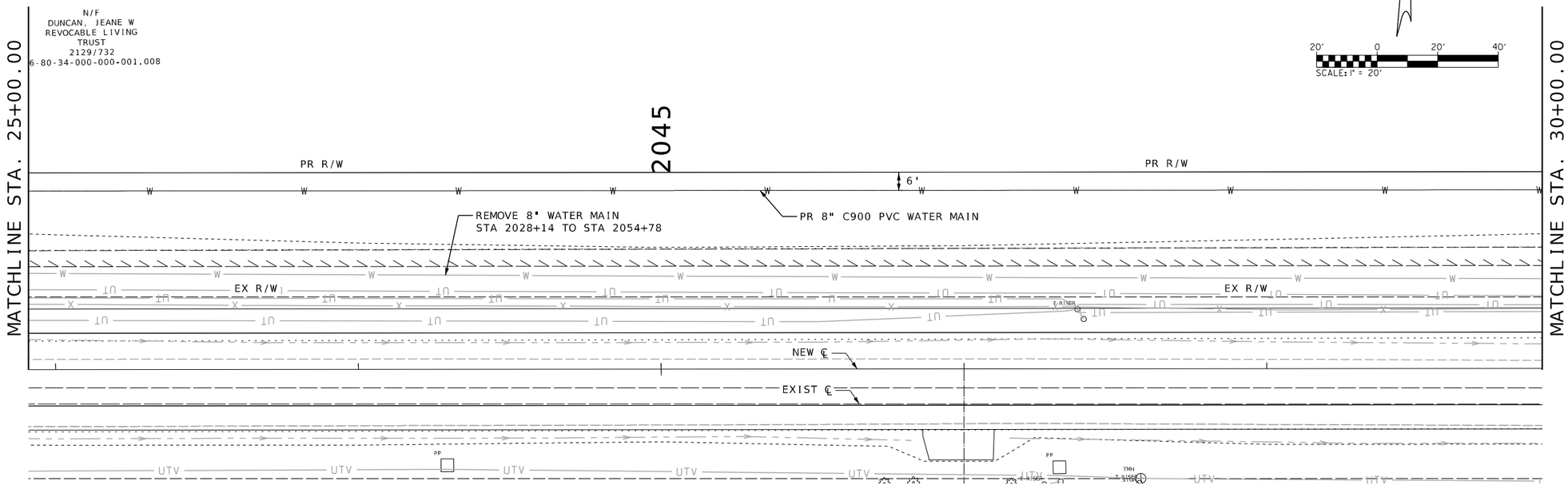

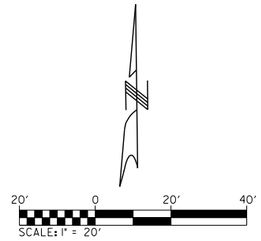

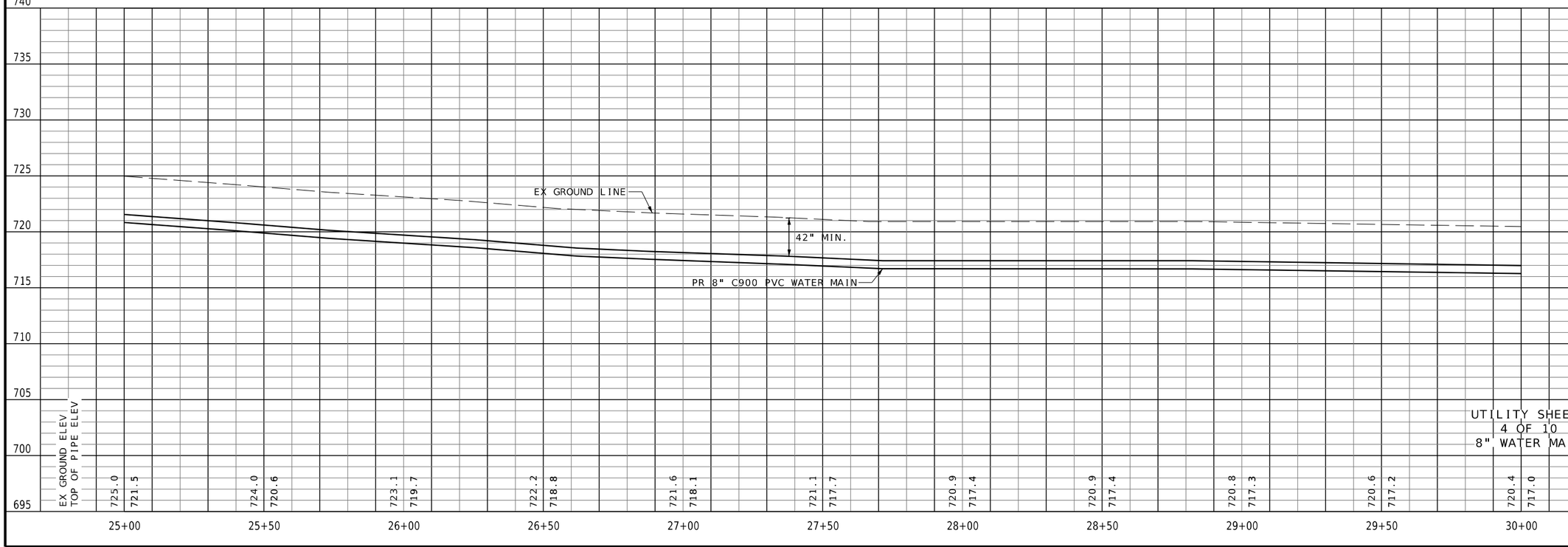

STATE OF MISSOURI
JEFFREY R. RENSING
NUMBER PE-2006012376
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED
9/4/2025

ROUTE	STATE
47	MO
DISTRICT	SHEET NO.
NE	159

COUNTY
LINCOLN

JOB NO.
JNE0003

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

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

OATES ASSOCIATES

Collinsville
Vadalabene Square Dr. Suite 1
Collinsville, IL 62234
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St. Louis
2200 West Port Plaza Dr. Suite 700
St. Louis, MO 63131
314.588.8181

Belleville
1 South Church, Suite 200
Belleville, IL 62220
618.416.4888

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820 South Main, Suite 309
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636.493.5077

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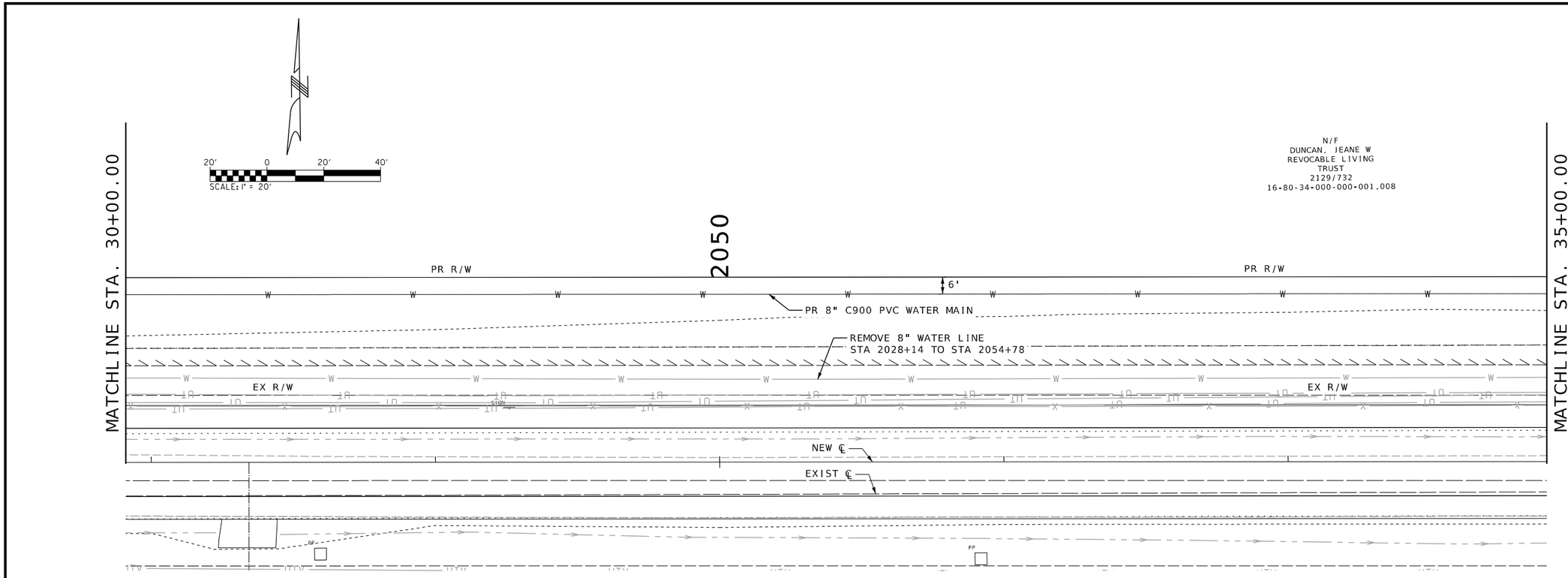

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DATE PREPARED
9/4/2025

ROUTE	STATE
47	MO
DISTRICT	SHEET NO.
NE	160

COUNTY
LINCOLN

JOB NO.
JNE0003

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PROJECT NO.
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MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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JEFFERSON CITY, MO 65102
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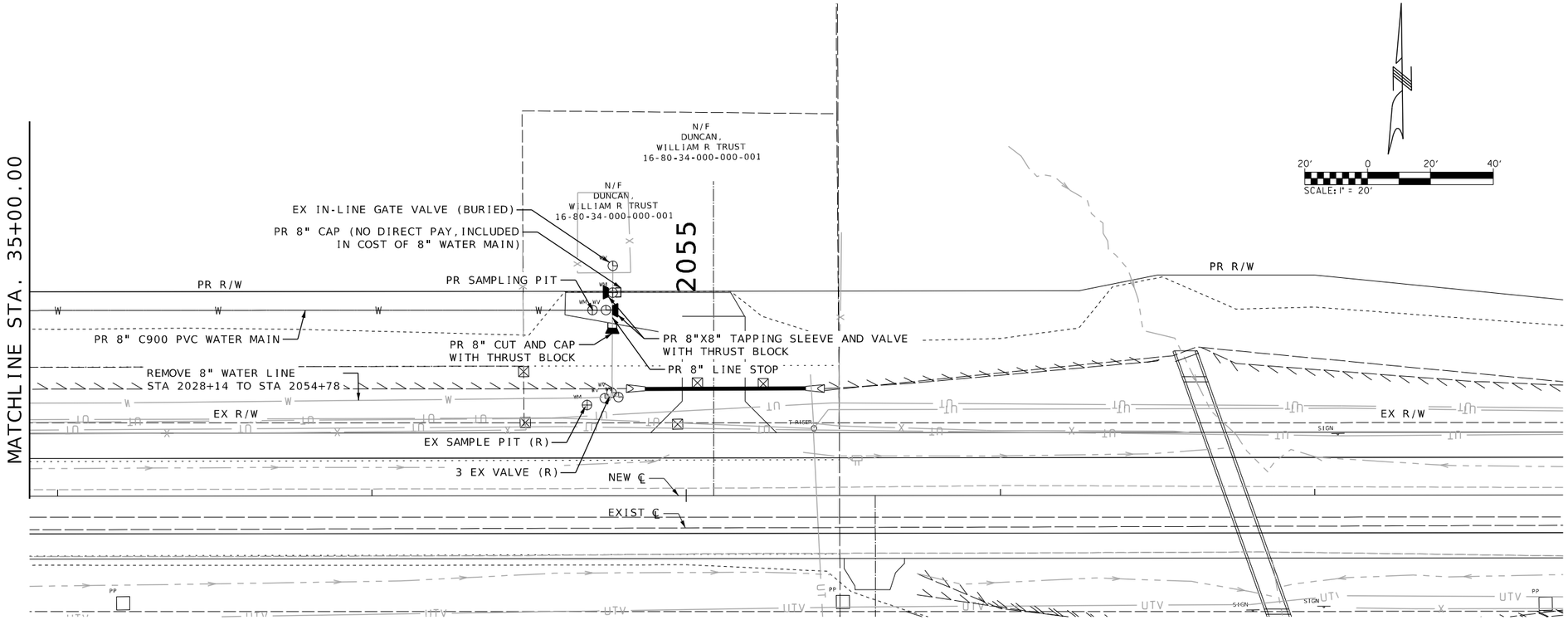
H:\P\224081 - MoDOT On Call\WO 1 - NE Dist - Route 47 - Water Main Relocation Plans\CADD\Microstation\CADD Drawings\JNE0003 - Sheet - Plan-Profile.dgn 9:08:35 AM 9/4/2025



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DATE PREPARED
9/4/2025

ROUTE	STATE
47	MO
DISTRICT	SHEET NO.
NE	161

COUNTY
LINCOLN

JOB NO.
JNE0003

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

105 WEST CAPITOL
JEFFERSON CITY, MO 65102
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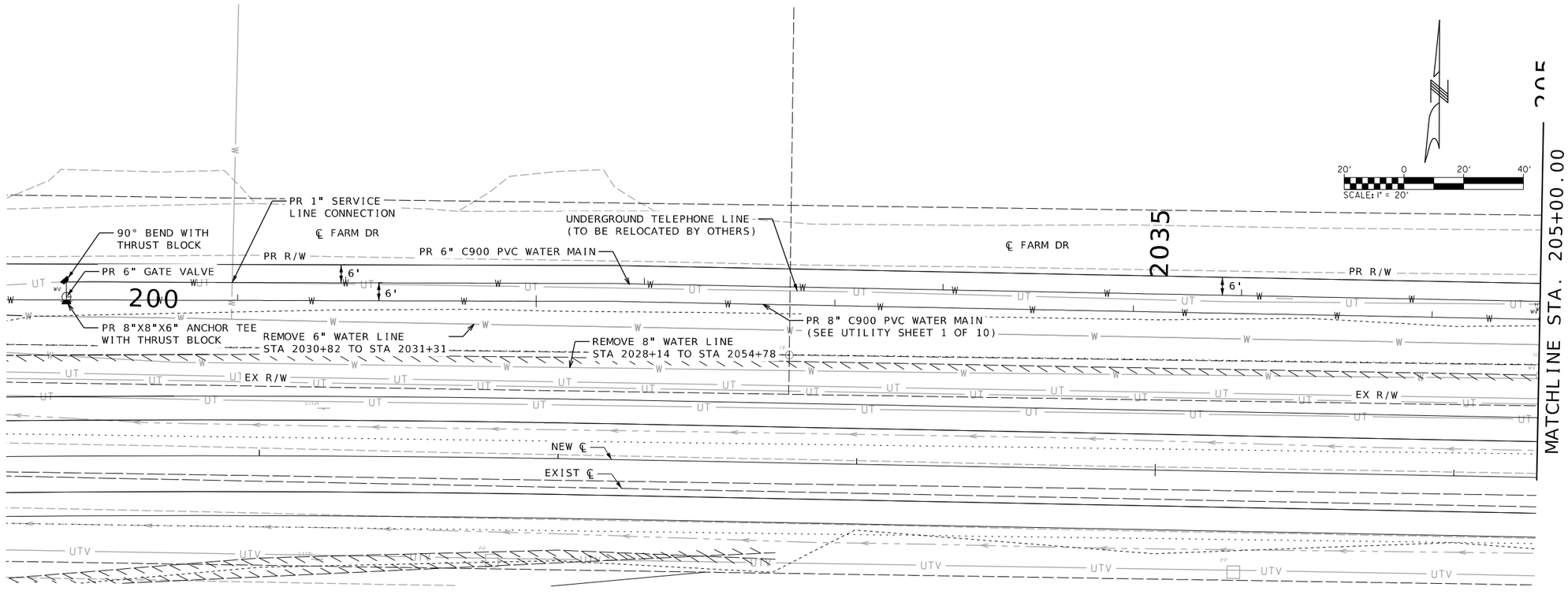

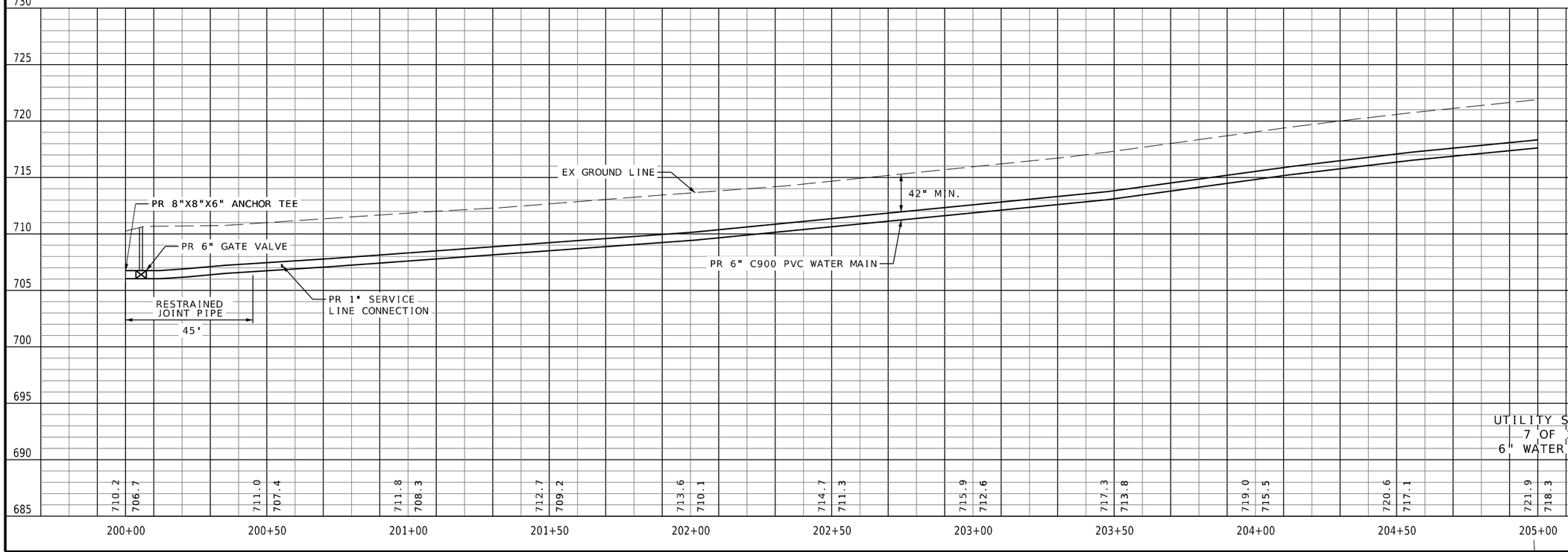

STATE OF MISSOURI
JEFFREY R. RENSING
NUMBER PE-2006012376
PROFESSIONAL ENGINEER

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DATE PREPARED
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ROUTE	STATE
47	MO
DISTRICT	SHEET NO.
NE	162

COUNTY
LINCOLN

JOB NO.
JNE0003

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PROJECT NO.
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BRIDGE NO.
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MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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

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2326 Kingston Ct., Suite 700
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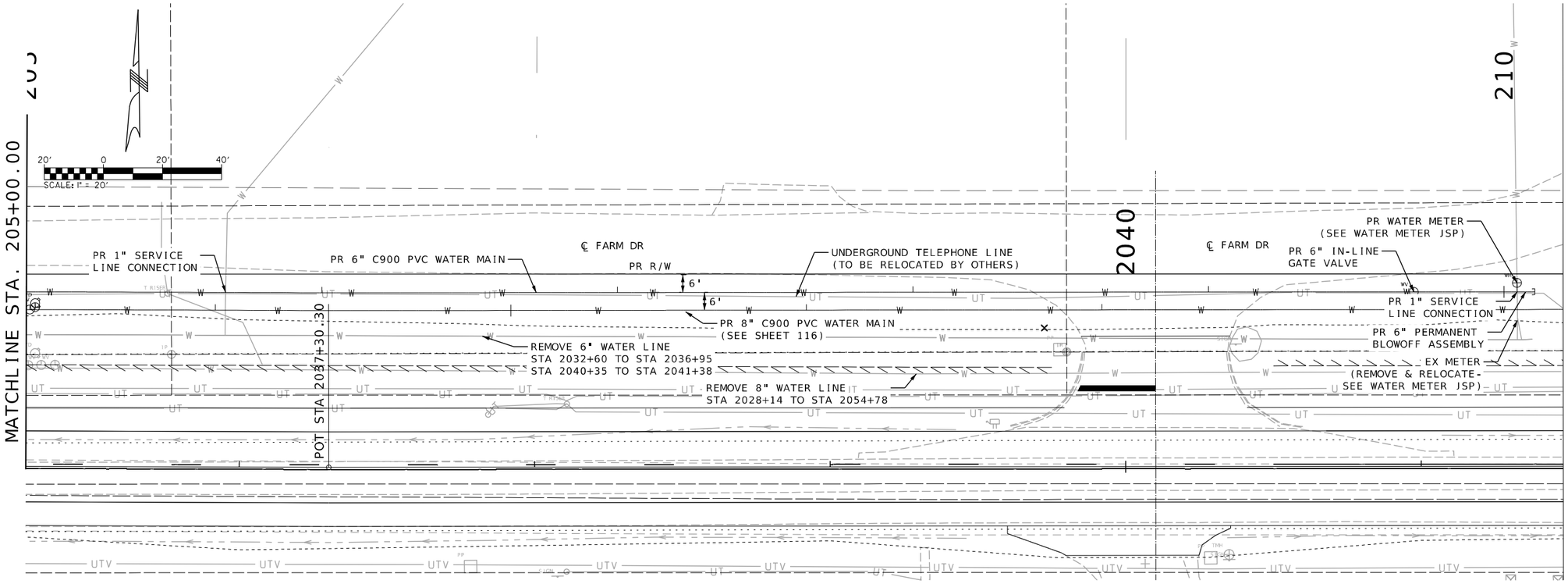

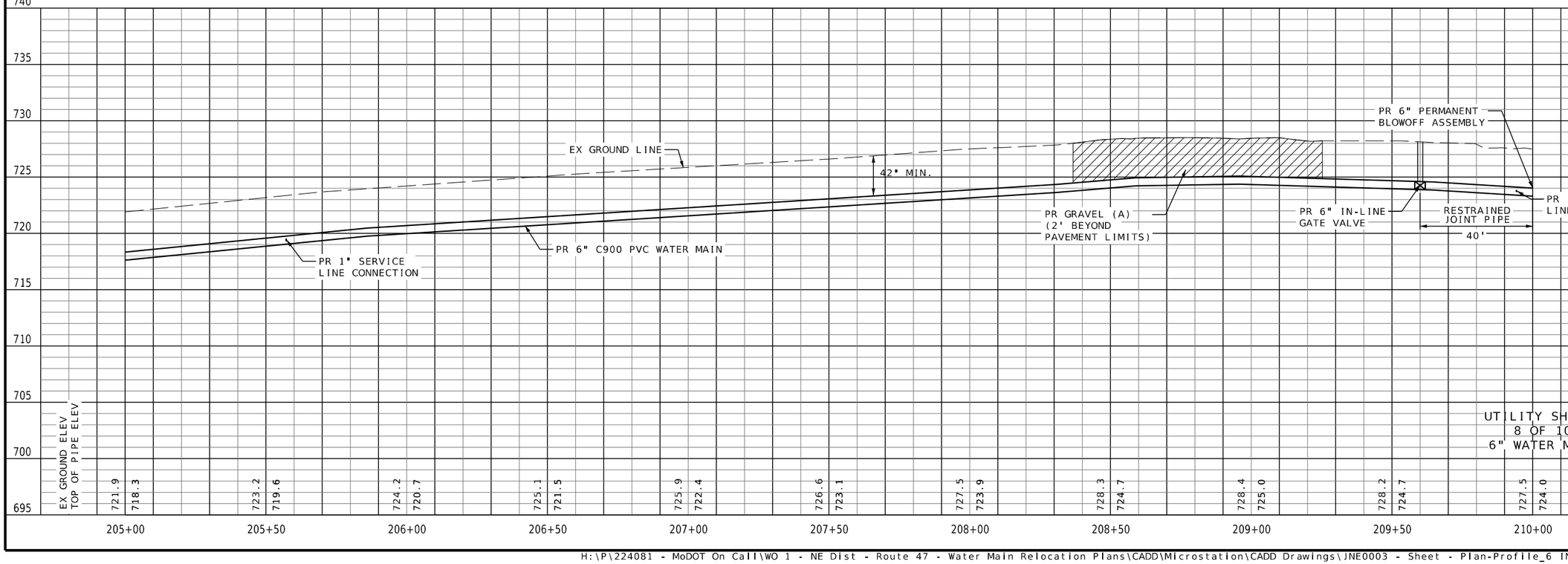

UTILITY SHEETS
8 OF 10
6" WATER MAIN

STATE OF MISSOURI
JEFFREY R. RENSING
NUMBER PE-2006012376
PROFESSIONAL ENGINEER

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47	MO
DISTRICT	SHEET NO.
NE	163

COUNTY
LINCOLN

JOB NO.
JNE0003

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MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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636.493.5077

Collinsville
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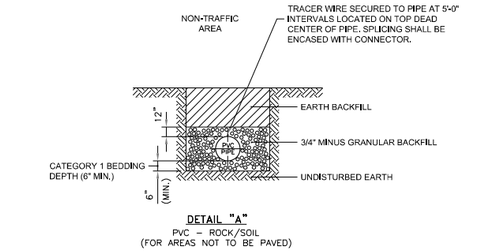
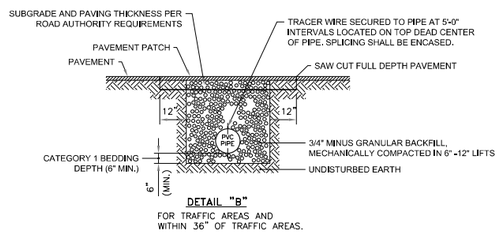


DETAIL "A"
PVC – ROCK/SOIL
(FOR AREAS NOT TO BE PAVED)

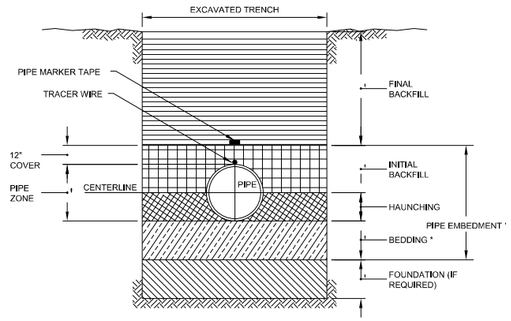


DETAIL "B"
FOR TRAFFIC AREAS AND WITHIN 36" OF TRAFFIC AREAS.

NOTE:

1. CAUTION MUST BE EXERCISED TO ENSURE PROPER PLACEMENT OF EMBEDMENT MATERIAL UNDER THE HAUNCHES OF THE PIPE.

PVC PIPE INSTALLATION



TRENCH TERMINOLOGY

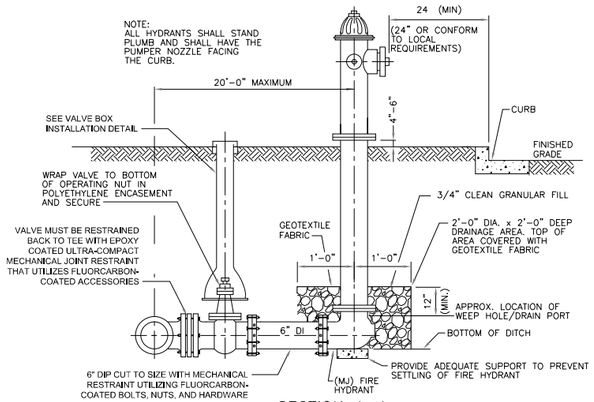
FOUNDATION: A FOUNDATION IS NECESSARY ONLY WHEN NATIVE SOILS ARE UNSTABLE. FOR SUCH CONDITIONS, THE TRENCH IS OVER-EXCAVATED AND A LAYER OF SUPPORTIVE MATERIAL IS PLACED AND COMPACTED TO PROVIDE A FIRM FOUNDATION FOR THE SUBSEQUENT PIPE EMBEDMENT MATERIALS.

EMBEDMENT: THIS ZONE IS THE MOST IMPORTANT IN TERMS OF PIPE PERFORMANCE. IT IS DIVIDED INTO THE FOLLOWING SUB ZONES:

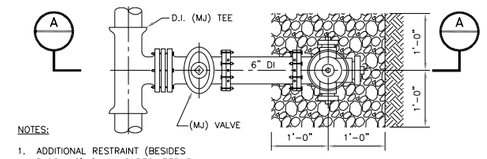
- BEDDING: TYPICALLY SIX INCHES OF SUPPORTIVE, COMPACTED MATERIAL. THIS ZONE PROVIDES EVEN SUPPORT FOR THE PIPE AND BRINGS IT TO GRADE. *
- HAUNCHING: EXTENDS FROM THE BOTTOM OF THE PIPE TO THE CENTERLINE OF THE PIPE. IT PROVIDES THE MOST RESISTANCE TO PIPE DEFLECTION. SPECIFYING PROPER MATERIALS AND COMPACTION ARE MOST IMPORTANT FOR THIS ZONE. IN MOST CASES NATIVE MATERIAL IS ACCEPTABLE. MATERIAL SHALL BE FREE OF ROCKS AND BE PLACED BY HAND TO PROTECT POLYETHYLENE ENCASING.
- INITIAL BACKFILL: EXTENDS FROM THE SPRINGLINE TO A POINT ABOVE THE TOP OF THE PIPE. THIS ZONE PROVIDES SOME PIPE SUPPORT AND HELPS TO PREVENT DAMAGE TO THE PIPE DURING PLACEMENT OF THE FINAL BACKFILL. THE COVER EXTENDS FROM THE TOP OF THE PIPE TO THE TOP OF THE INITIAL BACKFILL. THE DEPTH OF COVER SHOULD BE AS MUCH AS NECESSARY TO PROTECT THE PIPE DURING PLACEMENT OF THE FINAL BACKFILL. TWELVE INCHES IS A COMMON DEPTH OF COVER.

FINAL BACKFILL: THIS ZONE EXTENDS FROM THE TOP OF THE INITIAL BACKFILL TO THE TOP OF THE TRENCH. THIS ZONE HAS LITTLE INFLUENCE ON PIPE PERFORMANCE, BUT CAN BE IMPORTANT TO THE INTEGRITY OF ROADS AND STRUCTURES.

PIPE TRENCH TERMINOLOGY



SECTION A–A

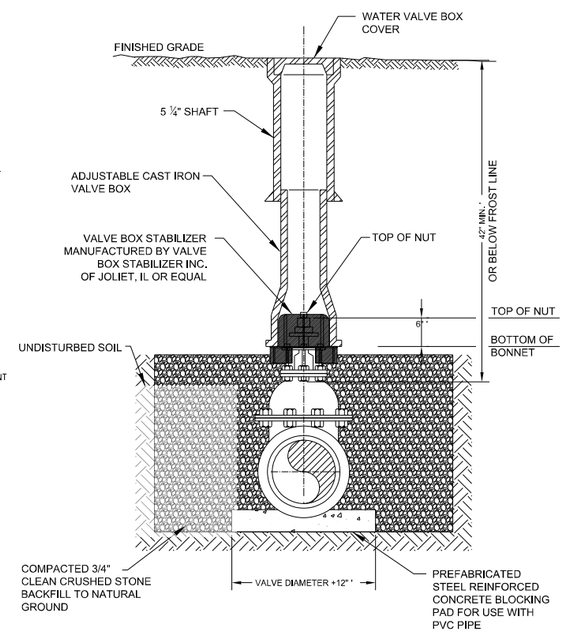


PLAN

NOTES:

1. ADDITIONAL RESTRAINT (BESIDES BLOCKING) ONLY AS REQUIRED BY ENGINEER.
2. PAINT HYDRANT TO MATCH COLOR OF LOCAL REQUIREMENTS USING PAINT COMPATIBLE WITH MANUFACTURER'S CATALOG TO BURY LINE (AND CAN BE DONE PRIOR TO INSTALLATION).
3. APPLY TOUCH UP PAINT AS REQUIRED AFTER INSTALLATION.

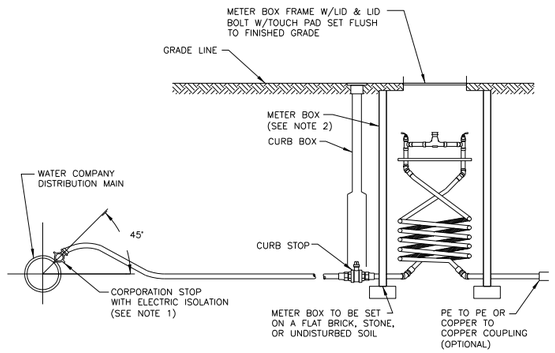
FIRE HYDRANT



NOTE:

6"x6" WOOD BLOCK MAY BE USED AS VALVE PAD WHERE APPROVED BY ENGINEER.

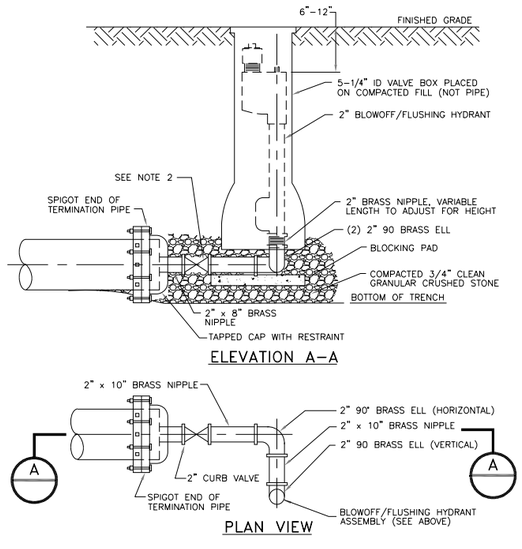
VALVE BOX INSTALLATION



NOTES:

1. CORPORATION STOP WITH STRAIGHT COUPLING NUT. SERVICE SADDLES WILL BE USED FOR ALL TAPS IN A/C, PVC OR CONCRETE MAINS.
2. METER BOX LOCATION TO BE DETERMINED BY LOCAL AUTHORITY.
3. SERVICE LINE AND METER BOX OWNERSHIP VARIES BY LOCAL TARIFF.
4. IN HEAVY FROST AREAS, A PLASTIC INNER LID AND BLANKET CAN BE USED.
5. CONNECTIONS BETWEEN PIPE LENGTHS SHALL BE COMPRESSION OR FLARE AND MAY DEPEND ON LOCAL PLUMBING REQUIREMENT.

3/4", 1" & 2" WATER SERVICE INSTALLATION



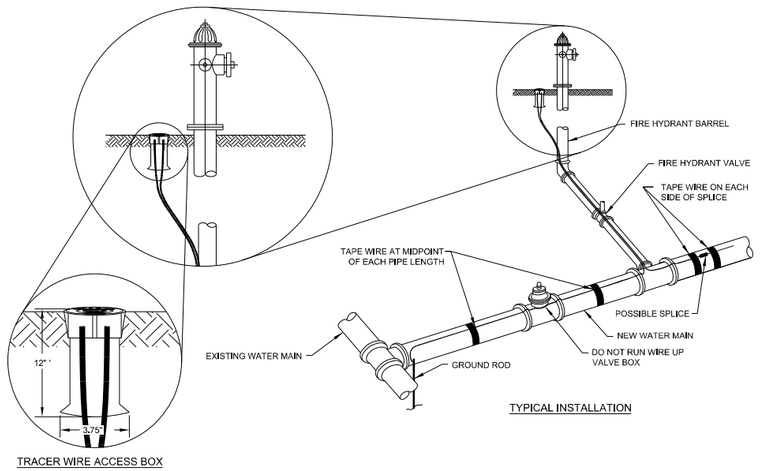
ELEVATION A–A

PLAN VIEW

NOTES:

1. POLYETHYLENE ENCASEMENT ON ALL DI AND BRASS PIPE.
2. CURB BOX FOR VALVE NOT SHOWN.
3. TO BE USED ON 6" AND SMALLER DEAD END MAINS AS SHOWN ON THE PLANS OR AS APPROVED BY THE ENGINEER.

PERMANENT BLOWOFF ASSEMBLY



TRACER WIRE ACCESS BOX

TYPICAL INSTALLATION

NOTES:
1. EXTEND TRACER WIRE UP FIRE HYDRANT BARREL TO INTERNAL TERMINALS OF TRACER WIRE STATION AND BACK DOWN.
2. CLAMP TRACER WIRE TO GROUND ROD AT SYSTEM TERMINATION POINTS.

TRACER SYSTEM

UTILITY SHEETS
9 OF 10
WATER MAIN DETAILS

STATE OF MISSOURI
JEFFREY R. RENSING
NUMBER PE-2006012376
PROFESSIONAL ENGINEER

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DATE PREPARED 9/4/2025

ROUTE	STATE
47	MO
DISTRICT	SHEET NO.
NE	164

COUNTY: LINCOLN
JOB NO.: JNE0003
CONTRACT ID.:
PROJECT NO.:
BRIDGE NO.:

DESCRIPTION	DATE

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

OATES ASSOCIATES
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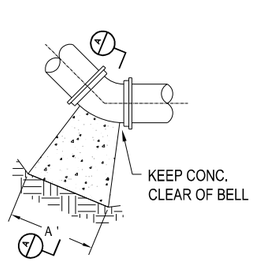
THRUST BLOCK SIZING TABLE & NOTES:

1. COVER OVER TOP OF PIPE SHALL BE BELOW FROST LINE OR 30" MINIMUM, 72" MAXIMUM ACCORDING TO REGULATORY REQUIREMENTS. IF GRADING PLANS RECEIVED BY THE ENGINEER/OWNER WITH THE REQUEST FOR WATER MAIN LAYOUT, INDICATE ADJUSTMENTS TO EXISTING GRADE, THEN PIPE SHALL BE INSTALLED TO MEET MINIMUM AND MAXIMUM COVER FROM PROPOSED GRADES SHOWN ON SAID PLANS.
2. THRUST BLOCKS SHALL BE BUILT AGAINST UNDISTURBED SOIL WITH ADEQUATE BACKING TO PREVENT MOVEMENT OF FITTING.
3. NO THRUST BLOCKS TO BE PLACED IN SEWER LATERAL DITCHES,.
4. THRUST BLOCKING MUST FIT IN EASEMENT, IN SOME CASES ADDITIONAL RESTRAINT MAY BE REQUIRED.
5. BASED ON 200 PSI (150 PSI STATIC PRESSURE PLUS 50 PSI WATER HAMMER) AND 2000 PSF SOIL BEARING.
6. POLYETHYLENE ENCASEMENT ON ALL D.I. PIPE AND FITTINGS.
7. PIPE JOINTS AND BOLTS MUST BE ACCESSIBLE.
8. ALLOW SUFFICIENT CLEARANCE BETWEEN CONCRETE AND BOLTS FOR FUTURE MAINTENANCE.
9. ALL ANCHOR BOLTS SHALL BE COR-BLUE, MINIMUM 1/2" DIAMETER. COAT EXPOSED ROD WITH ASPHALT CEMENT AFTER CONCRETE HAS SET.
10. ALL M.J. AND FLG. FITTINGS TO RECEIVE THRUST BLOCKS SHALL HAVE THE FASTENER AREAS FELT WRAPPED AND TAPED PRIOR TO THE CONCRETE POUR TO ALLOW FUTURE ACCESS TO THE FASTENERS AT THE JOINTS.
11. THRUST BLOCKING DETAILS ARE SHOWN HERE FOR TYPICAL INSTALLATIONS. IN SOME CASES, ADDITIONAL RESTRAINT MAY BE REQUIRED.
12. PORTLAND CEMENT CONCRETE USED FOR THRUST BLOCKS SHALL BE MIN 3000 PSI CONCRETE.
13. FOR UNSTABLE SOIL CONDITIONS, CHECK WITH ENGINEER FOR THRUST BLOCK DIMENSIONS.
14. FOR MAIN SIZES GREATER THAN 16", SEE ENGINEER FOR THRUST BLOCK DIMENSIONS.

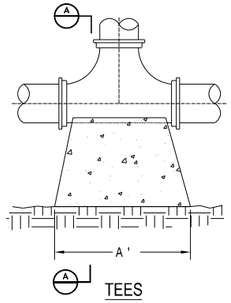
REQUIRED BEARING AREA ON UNDISTURBED SOIL AND TYPICAL DIMENSIONS

PIPE SIZE	90° BENDS			45° BENDS			22.50° BENDS			11.25° BENDS			TEES/PLUGS		
	AREA (SF)	"A" (in.)	"B" (in.)	AREA (SF)	"A" (in.)	"B" (in.)	AREA (SF)	"A" (in.)	"B" (in.)	AREA (SF)	"A" (in.)	"B" (in.)	AREA (SF)	"A" (in.)	"B" (in.)
6"	12.0	48	36	6.5	39	24	3.3	27	18	1.7	20	12	8.5	41	30
8"	21.3	64	48	11.5	56	30	5.9	36	24	3.0	24	18	15.1	61	36
10"	33.3	89	54	18.0	73	36	9.2	45	30	4.6	28	24	23.6	81	42
12"	48.0	116	60	26.0	89	42	13.2	53	36	6.6	32	30	33.9	91	54
14"	65.3	112	84	35.3	85	60	18.0	62	42	9.0	37	36	46.2	101	66
16"	85.3	128	96	46.1	101	66	23.5	71	48	11.8	48	36	60.3	121	72

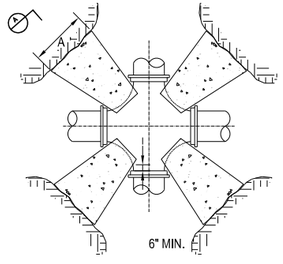
1. AREA IN SQUARE FEET. "A" & "B" IN INCHES
2. BEARING TABLE AREA BASED ON 200 PSI MINIMUM WITH SOIL BEARING CAPACITY OF 1000 LBS/SQUARE FOOT
3. FOR HIGHER WATER PRESSURES OR LOWER SOIL PRESSURES, CONSULT ENGINEER FOR ADJUSTMENTS
4. BEARING TABLE AREA INCLUDES FACTOR OF SAFETY OF 1.50
5. ADDITIONAL FACTOR OF SAFETY AND BEARING AREA MAY BE REQUIRED AS DIRECTED BY THE ENGINEER



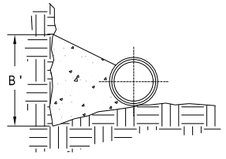
BENDS



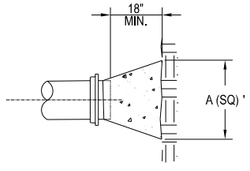
TEES



CROSSES

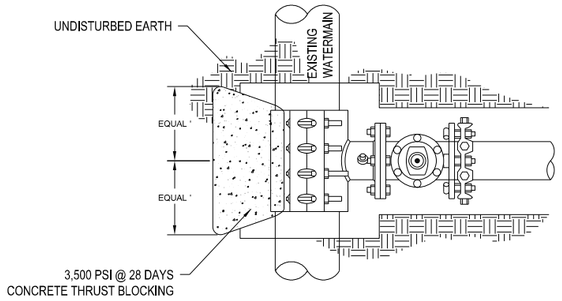


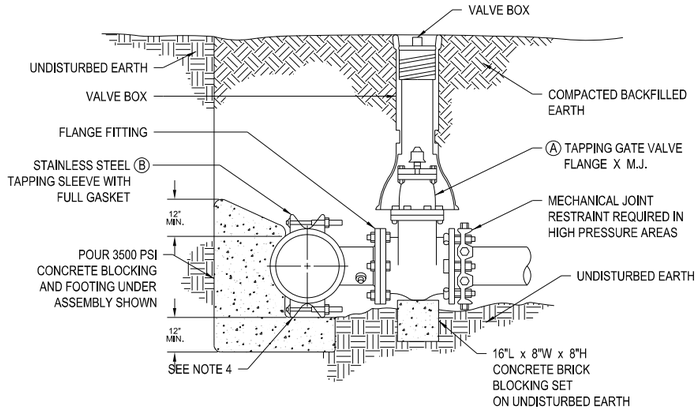
SECTION - A



PLUGS

BENDS, TEES & CROSSES





REF	PART	DESCRIPTION
Ⓐ	TAPPING GATE VALVE	RESILIENT WEDGE TAPPING VALVE WITH FLANGED/M.J. APPURTENANT END FITTING OR EQUIVALENT. VALVE SHALL BE RATED AT 250 PSI.
Ⓑ	TAPPING SLEEVE (STAINLESS STEEL)	TAPPING SLEEVE SHALL BE TYPE 304 STAINLESS STEEL WITH CARBON STEEL FLANGE. SLEEVE SHALL BE RATED AT 250 PSI AND SHALL BE FITTED WITH A TEST PLUG.

GENERAL NOTES

1. TAPPING SLEEVE AND VALVE SHALL BE FULL PORT TO ACCEPT FULL SIZE SHELL CUTTER.
2. STEEL FLANGE SHALL MEET AWWA C207.
3. CONCRETE BLOCKING FORMED TO ENSURE ACCESSIBILITY TO FITTINGS AND POURED AGAINST UNDISTURBED EARTH.
4. FITTINGS ARE TO BE COMPLETELY WRAPPED WITH PLASTIC, PRIOR TO POURING CONCRETE.
5. CONCRETE TO BE MINIMUM 3,500 PSI @ 28 DAYS.

HOT TAPPING SLEEVE AND TAPPING VALVE

UTILITY SHEETS
10 OF 10
WATER MAIN DETAILS

STATE OF MISSOURI
JEFFREY R. RENSING
NUMBER PE-2006012376
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED 9/4/2025

ROUTE	STATE
47	MO
DISTRICT	SHEET NO.
NE	165

COUNTY LINCOLN
JOB NO. JNE0003
CONTRACT ID. .
PROJECT NO. .
BRIDGE NO. .

DATE	DESCRIPTION
.	.

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

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Collinsville
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Belleville
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Belleville, IL 62220
618.416.4888

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MISSOURI DESIGN FIRM PE-001166
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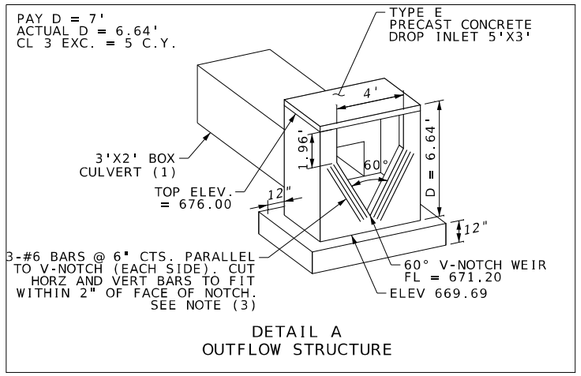
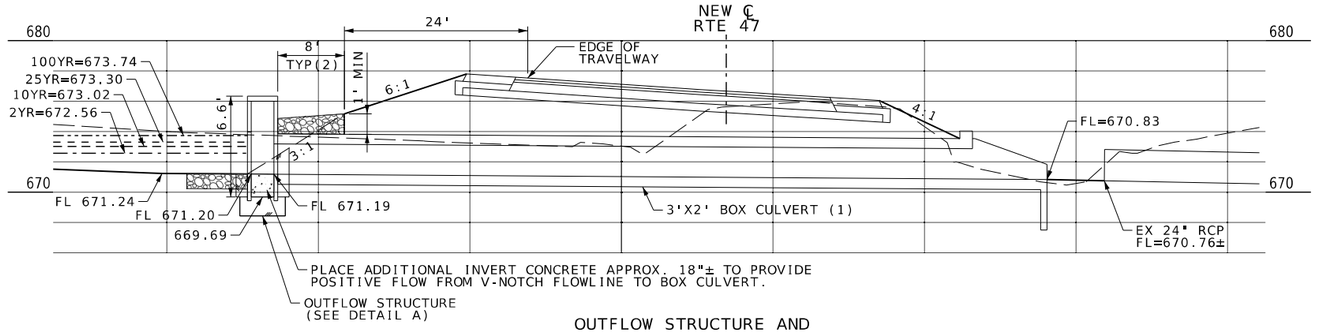
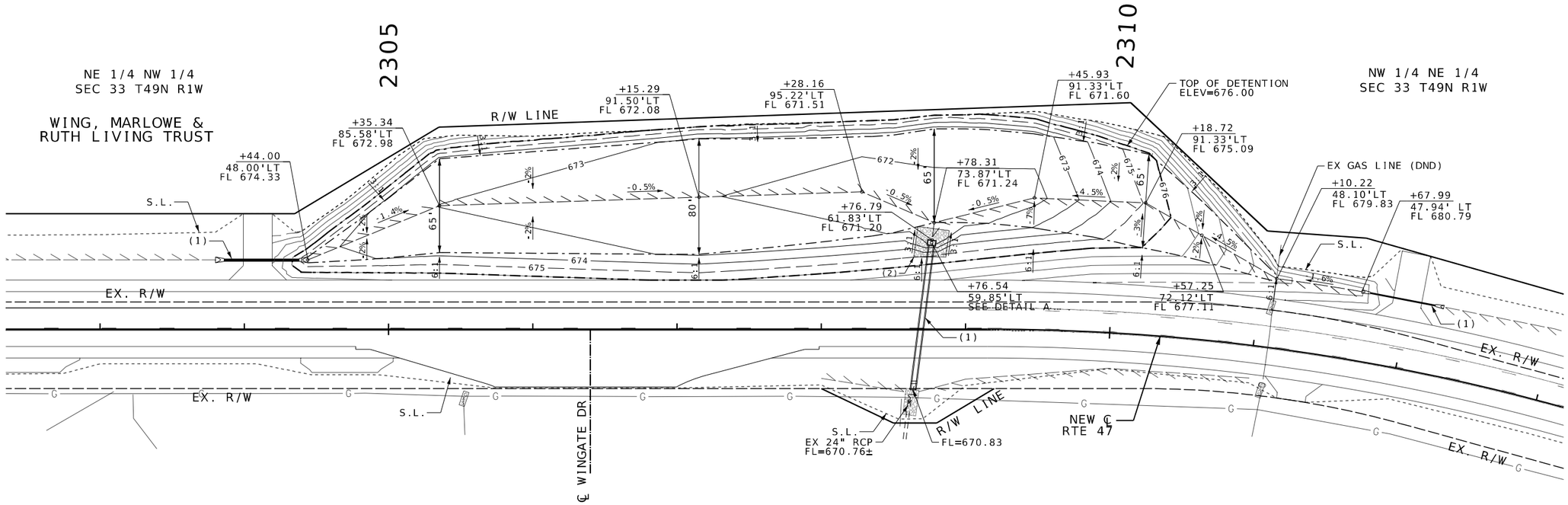


DETAIL A
OUTFLOW STRUCTURE



OUTFLOW STRUCTURE AND
3'X2' BOX CULVERT PROFILE



SCALE
0 40 80 120

NOTES:

(1) SEE CULVERT SECTION SHEETS FOR PROFILE AND DETAILS.

(2) SEE EROSION CONTROL SHEETS FOR DETAILS

(3) THE STEEL REINFORCEMENT SHOWN ON THIS DETAIL IS IN ADDITION TO THE STANDARD REQUIREMENTS. SEE STANDARD PLANS 731 FOR STANDARD REINFORCING STEEL DETAILS FOR PRECAST DROP INLETS.THE CONTRACTOR SHALL SUBMIT SHOP DRAWINGS OF THIS STRUCTURE PRIOR TO MANUFACTURING FOR REVIEW AND APPROVAL BY THE ENGINEER.

DISCLAIMER
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BMP-1 DETAILS
SHEET 1 OF 2

STATE OF MISSOURI
PROFESSIONAL ENGINEER
MARGARET ANN BRUNS
NUMBER PE-2010000798
7/30/2025 4:14:54 PM
Margaret Ann Bruns - Civil
MO PE:2010000798

DATE PREPARED 7/30/2025
ROUTE 47 | STATE MO
DISTRICT NE | SHEET NO. 166
COUNTY LINCOLN
JOB NO. JNE0003
CONTRACT ID. .
PROJECT NO. .
BRIDGE NO. .

DATE	DESCRIPTION
.	.

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

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
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EFK•Moen
Civil Engineering Design
13523 Barrett Parkway Dr
Suite 250
St Louis, MO 63021
Phone 314-394-3100
Fax 314-394-3199
Missouri Certificate of Authority: 001578

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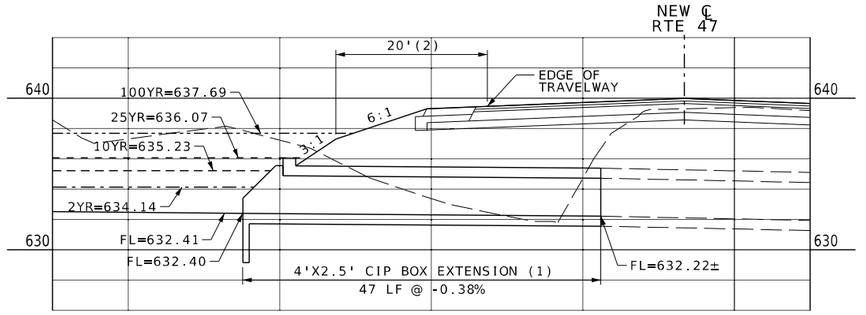
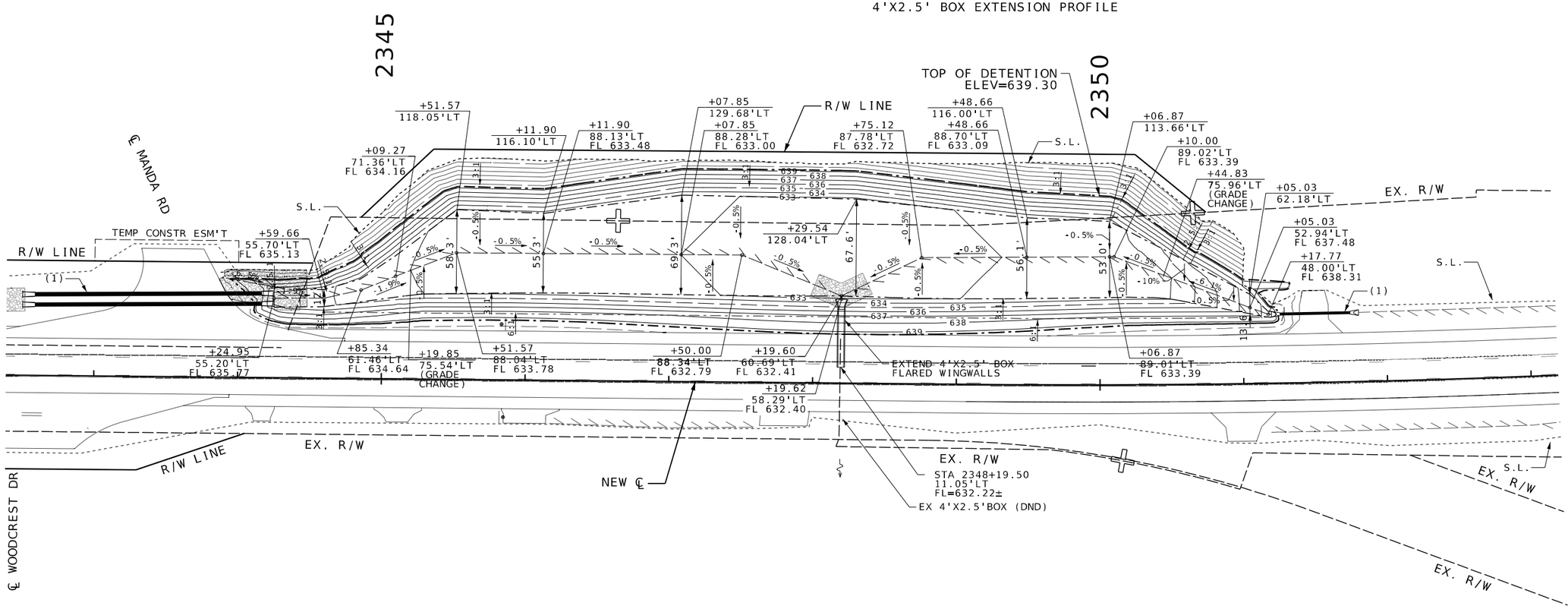


4'X2.5' BOX EXTENSION PROFILE



NOTES:
(1) SEE CULVERT SECTION SHEETS FOR PROFILE AND DETAILS.
(2) BASED ON 50MPH DESIGN SPEED FOR CLEAR ZONE.

SCALE
0 40 80 120

BMP-2 DETAILS
SHEET 2 OF 2

STATE OF MISSOURI
MARGARET ANN BRUNS
NUMBER PE-2010000798
PROFESSIONAL ENGINEER
7/30/2025 4:14:54 PM
Margaret Ann Bruns - Civil
MO PE:2010000798

DATE PREPARED 7/30/2025
ROUTE 47 | STATE MO
DISTRICT NE | SHEET NO. 167
COUNTY LINCOLN
JOB NO. JNE0003
CONTRACT ID. .
PROJECT NO. .
BRIDGE NO. .

DATE	DESCRIPTION
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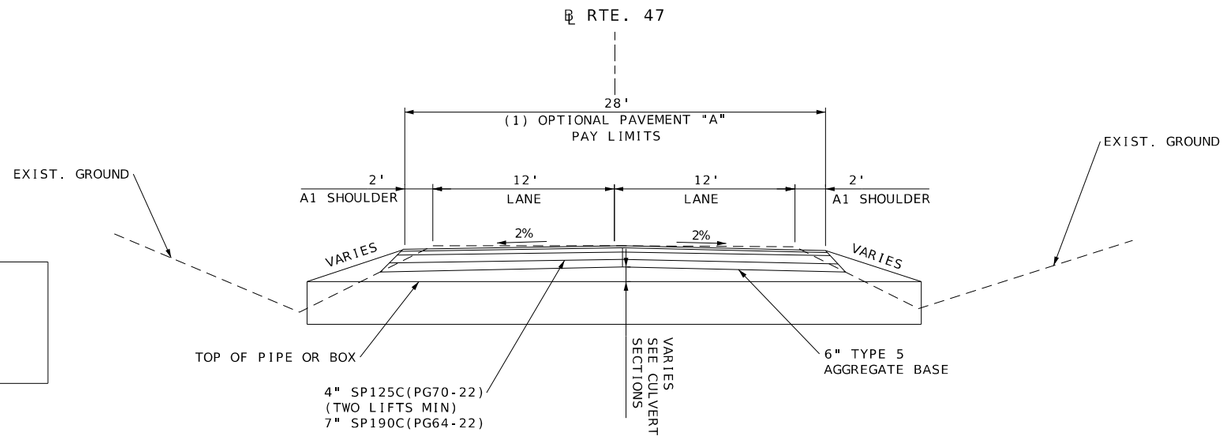
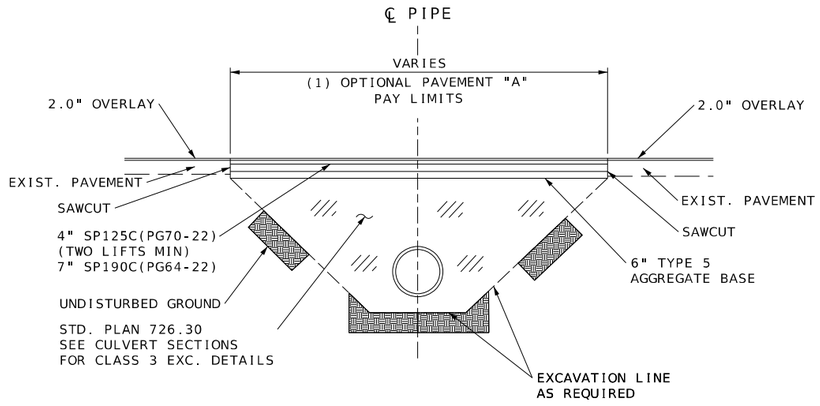
ESTIMATE FACTORS
(FOR INFORMATION ONLY)

SP125C W/PG 70-22: 1.927 TONS/C.Y.
SP190C W/PG PG 64-22: 1.94 TONS/C.Y.
TACK COAT: 0.08 GAL/S.Y.

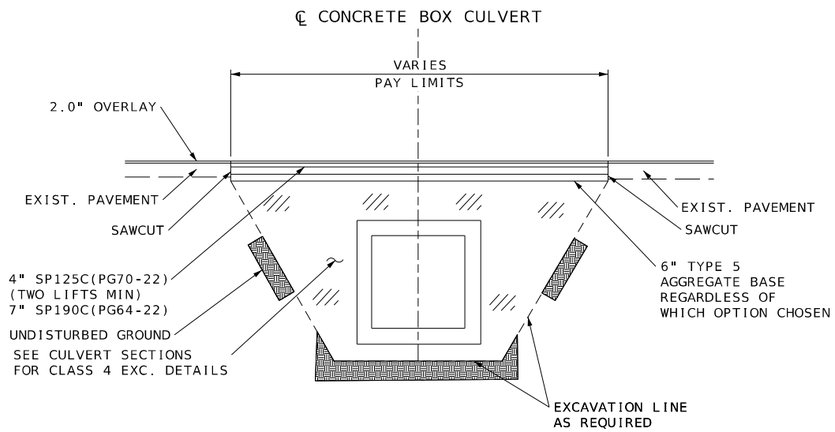


RTE. 47 PAVEMENT REPLACEMENT AT CULVERT LOCATIONS



PAVEMENT REPLACEMENT DETAIL FOR PIPE INSTALLATIONS

STA. 2000+15.00 TO STA. 2000+40.00
STA. 2013+75.00 TO STA. 2014+00.00
STA. 2078+10.00 TO STA. 2078+45.00
STA. 2118+75.00 TO STA. 2118+95.00
STA. 2187+45.00 TO STA. 2187+75.00
STA. 2194+55.00 TO STA. 2194+75.00
STA. 2228+60.00 TO STA. 2228+95.00
STA. 2249+60.00 TO STA. 2249+85.00
STA. 2289+30.00 TO STA. 2289+50.00



PAVEMENT REPLACEMENT DETAIL FOR CONCRETE BOX CULVERT INSTALLATIONS

STA. 2030+25.00 TO STA. 2030+50.00
STA. 2056+55.00 TO STA. 2056+95.00
STA. 2069+85.00 TO STA. 2070+20.00
STA. 2102+45.00 TO STA. 2102+70.00
STA. 2137+05.00 TO STA. 2137+40.00
STA. 2174+30.00 TO STA. 2174+60.00
STA. 2208+95.00 TO STA. 2209+20.00
STA. 2273+00.00 TO STA. 2273+25.00
STA. 2308+55.00 TO STA. 2308+80.00
STA. 2348+05.00 TO STA. 2348+85.00

MISCELLANEOUS DETAILS
SHEET 1 OF 2

STATE OF MISSOURI
JEFFREY R. RENSING
NUMBER PE-2006012376
PROFESSIONAL ENGINEER
THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED 8/26/2025
ROUTE 47 | STATE MO
DISTRICT NE | SHEET NO. 168
COUNTY LINCOLN
JOB NO. JNE0003
CONTRACT ID. .
PROJECT NO. .
BRIDGE NO. .

DESCRIPTION	DATE

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MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
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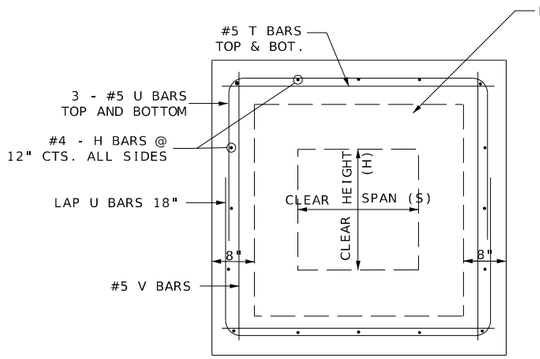
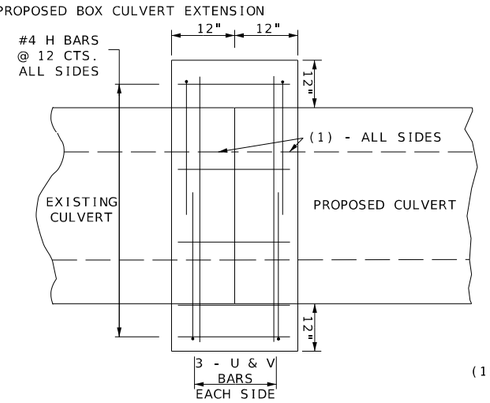
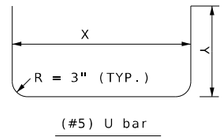


FRONT





(#5) U bar

(1) ONE LAYER OF COMMERCIALLY AVAILABLE 55- POUND ROLL ROOFING

CULVERT CONNECTION WITH
EXISTING HEADWALL, WINGWALL,
AND TOEWALL REMOVED

Bill of Materials

		#5 U BAR			#4 H BAR		#5 V BAR		#5 T BAR		REINF. BARS	CONCRETE COLLAR
LOCATION	EXISTING BOX SPAN	X	Y	QUANTITY	LENGTH	QUANTITY	LENGTH	QUANTITY	LENGTH	QUANTITY	LBS	Cu. Yds.
STA. 2348+19	4' X 2.5'	6'-11"	3'-6"	6	1'-8"	24	5'-6"	6	6'-11"	6	190	1.7
STA. 2360+18	4' X 4.2'	6'-11"	4'-5"	6	1'-8"	28	7'-2"	6	6'-11"	6	220	1.9

BAR LENGTHS AND QUANTITIES ASSUME AN 8" WALL THICKNESS. CONTRACTOR SHALL VERIFY BEFORE ORDERING MATERIAL.

MISCELLANEOUS DETAILS
SHEET 2 OF 2

STATE OF MISSOURI
JEFFREY R. RENSING
NUMBER PE-2006012376
PROFESSIONAL ENGINEER

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DATE PREPARED 8/26/2025

ROUTE	STATE
47	MO
DISTRICT	SHEET NO.
NE	169

COUNTY LINCOLN

JOB NO. JNE0003

CONTRACT ID. .

PROJECT NO. .

BRIDGE NO. .

DESCRIPTION	DATE
.	.
.	.
.	.
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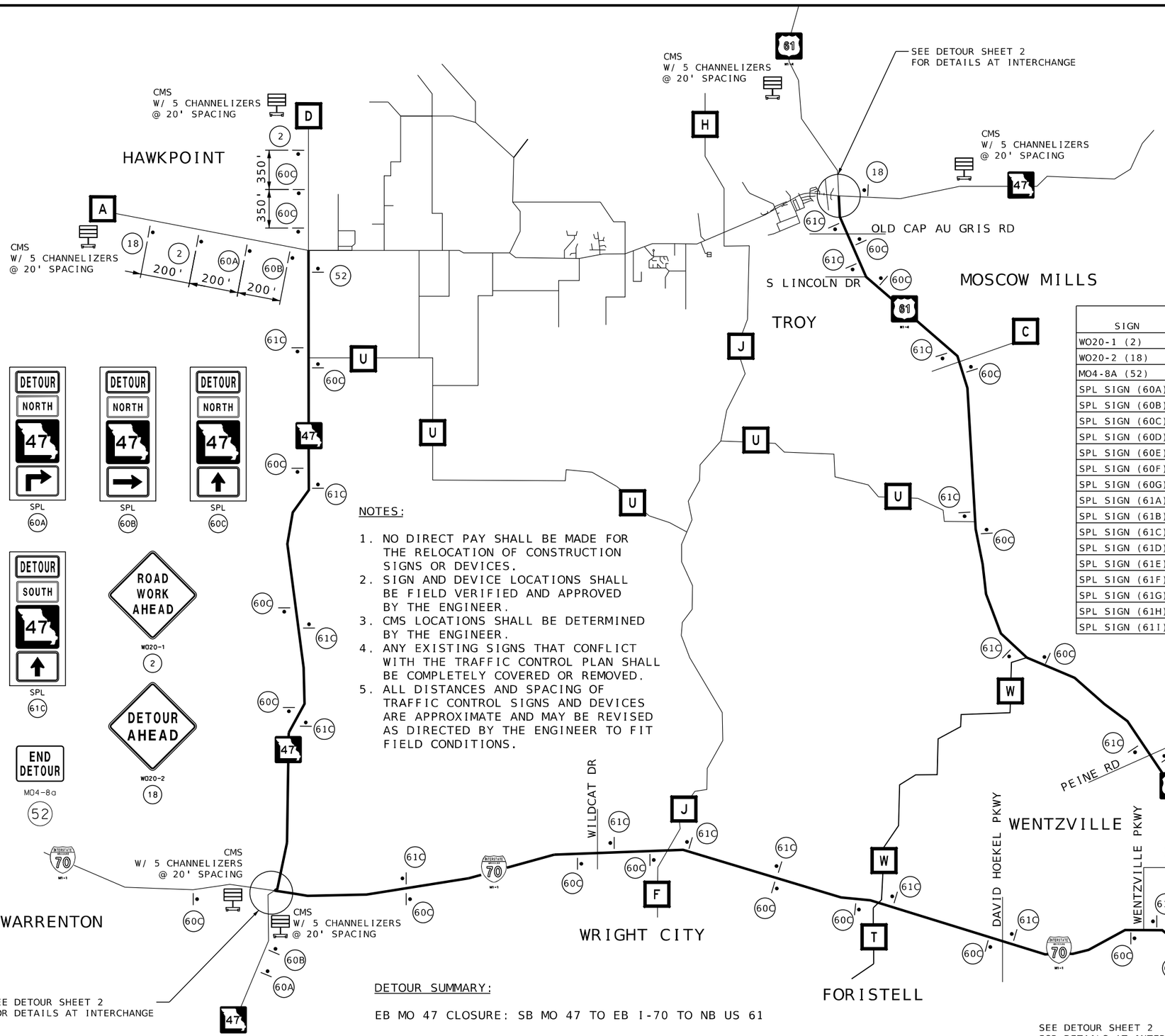
MISSOURI DESIGN FIRM PE-001166

TRAFFIC CONTROL:
ROUTE 47 DETOUR
OVERVIEW



TRAFFIC CONTROL LEGEND

- SIGN (SINGLE SIDED)
- CHANGEABLE MESSAGE BOARD
- DETOUR ROUTE

SIGN	QTY EACH	DESCRIPTION
WO20-1 (2)	2	ROAD WORK AHEAD
WO20-2 (18)	2	DETOUR AHEAD
MO4-8A (52)	2	END DETOUR
SPL SIGN (60A)	2	DETOUR 47 NORTH RIGHT TURN ARROW ADVANCE
SPL SIGN (60B)	2	DETOUR 47 NORTH RIGHT TURN ARROW
SPL SIGN (60C)	27	DETOUR 47 NORTH STRAIGHT
SPL SIGN (60D)	2	DETOUR 47 NORTH ADVANCE TURN ARROW 45 RIGHT
SPL SIGN (60E)	2	DETOUR 47 NORTH DIRECTIONAL ARROW 45 RIGHT
SPL SIGN (60F)	2	DETOUR 47 NORTH LEFT TURN ARROW ADVANCE
SPL SIGN (60G)	1	DETOUR 47 NORTH LEFT TURN ARROW
SPL SIGN (61A)	1	DETOUR 47 SOUTH RIGHT TURN ARROW ADVANCE
SPL SIGN (61B)	1	DETOUR 47 SOUTH RIGHT TURN ARROW
SPL SIGN (61C)	23	DETOUR 47 SOUTH STRAIGHT
SPL SIGN (61D)	3	DETOUR 47 SOUTH ADVANCE TURN ARROW 45 RIGHT
SPL SIGN (61E)	3	DETOUR 47 SOUTH DIRECTIONAL ARROW 45 RIGHT
SPL SIGN (61F)	1	DETOUR 47 SOUTH ADVANCE TURN ARROW 45 LEFT
SPL SIGN (61G)	1	DETOUR 47 SOUTH DIRECTIONAL ARROW 45 LEFT
SPL SIGN (61H)	1	DETOUR 47 SOUTH LEFT TURN ARROW ADVANCE
SPL SIGN (61I)	1	DETOUR 47 SOUTH LEFT TURN ARROW

DETOUR SUMMARY:

EB MO 47 CLOSURE: SB MO 47 TO EB I-70 TO NB US 61

WB MO 47 CLOSURE: SB US 61 TO WB I-70 TO NB MO 47

TRAFFIC CONTROL SHEETS
SHEET 1 OF 21

STATE OF MISSOURI
JEFFREY R. RENSING
NUMBER PE-2006012376
PROFESSIONAL ENGINEER
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DATE PREPARED	8/26/2025
ROUTE	STATE
47	MO
DISTRICT	SHEET NO.
NE	170
COUNTY	LINCOLN
JOB NO.	JNE0003
CONTRACT ID.	.
PROJECT NO.	.
BRIDGE NO.	.

DATE	DESCRIPTION
.	.

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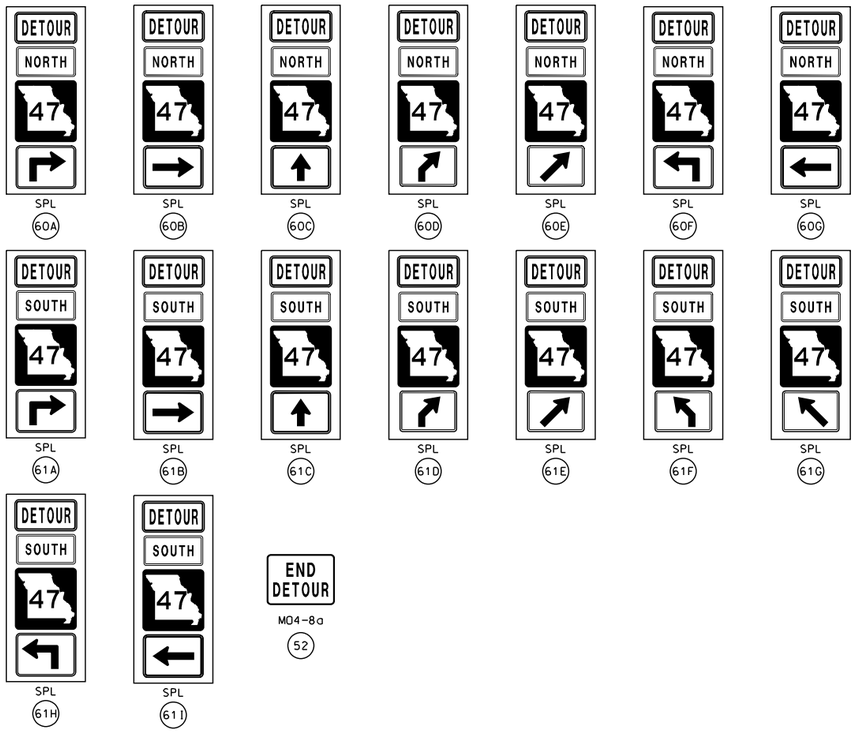
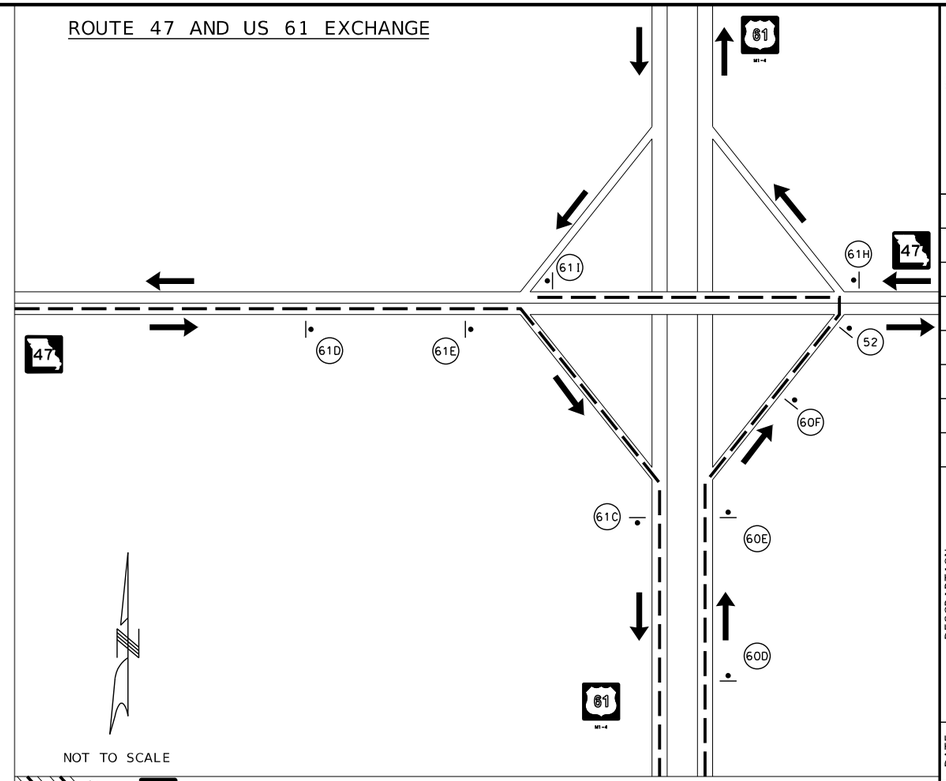
www.oatesassociates.com
MISSOURI DESIGN FIRM PE-001166

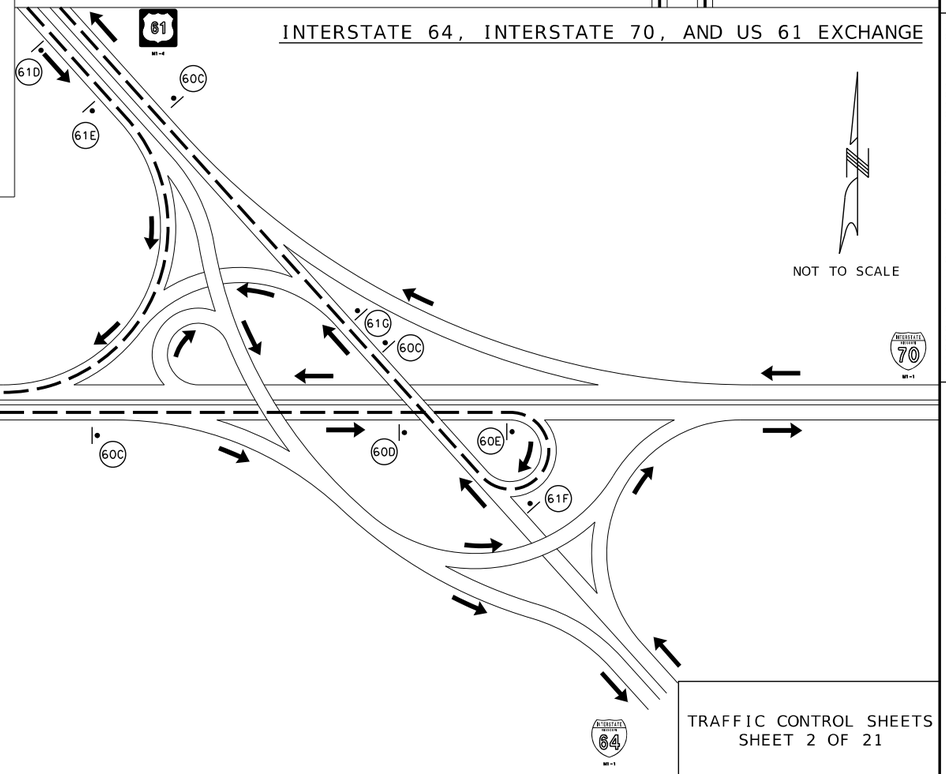
TRAFFIC CONTROL:
ROUTE 47 DETOUR
INTERCHANGE DETAILS



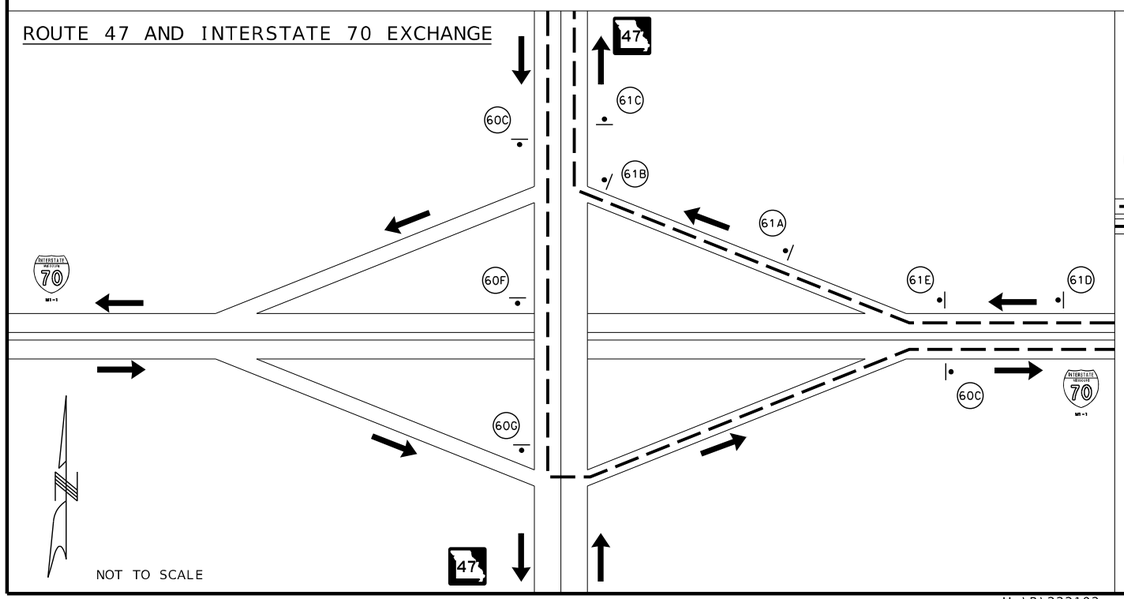
ROUTE 47 AND US 61 EXCHANGE



INTERSTATE 64, INTERSTATE 70, AND US 61 EXCHANGE



ROUTE 47 AND INTERSTATE 70 EXCHANGE



TRAFFIC CONTROL SHEETS
SHEET 2 OF 21

STATE OF MISSOURI
JEFFREY R. RENSING
NUMBER PE-2006012376
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

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

DATE PREPARED	
8/26/2025	
ROUTE	STATE
47	MO
DISTRICT	SHEET NO.
NE	171
COUNTY	
LINCOLN	
JOB NO.	
JNE0003	
CONTRACT ID.	
.	
PROJECT NO.	
.	
BRIDGE NO.	
.	

DESCRIPTION	DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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

OATES ASSOCIATES

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St. Charles, MO 63301
636.493.6277

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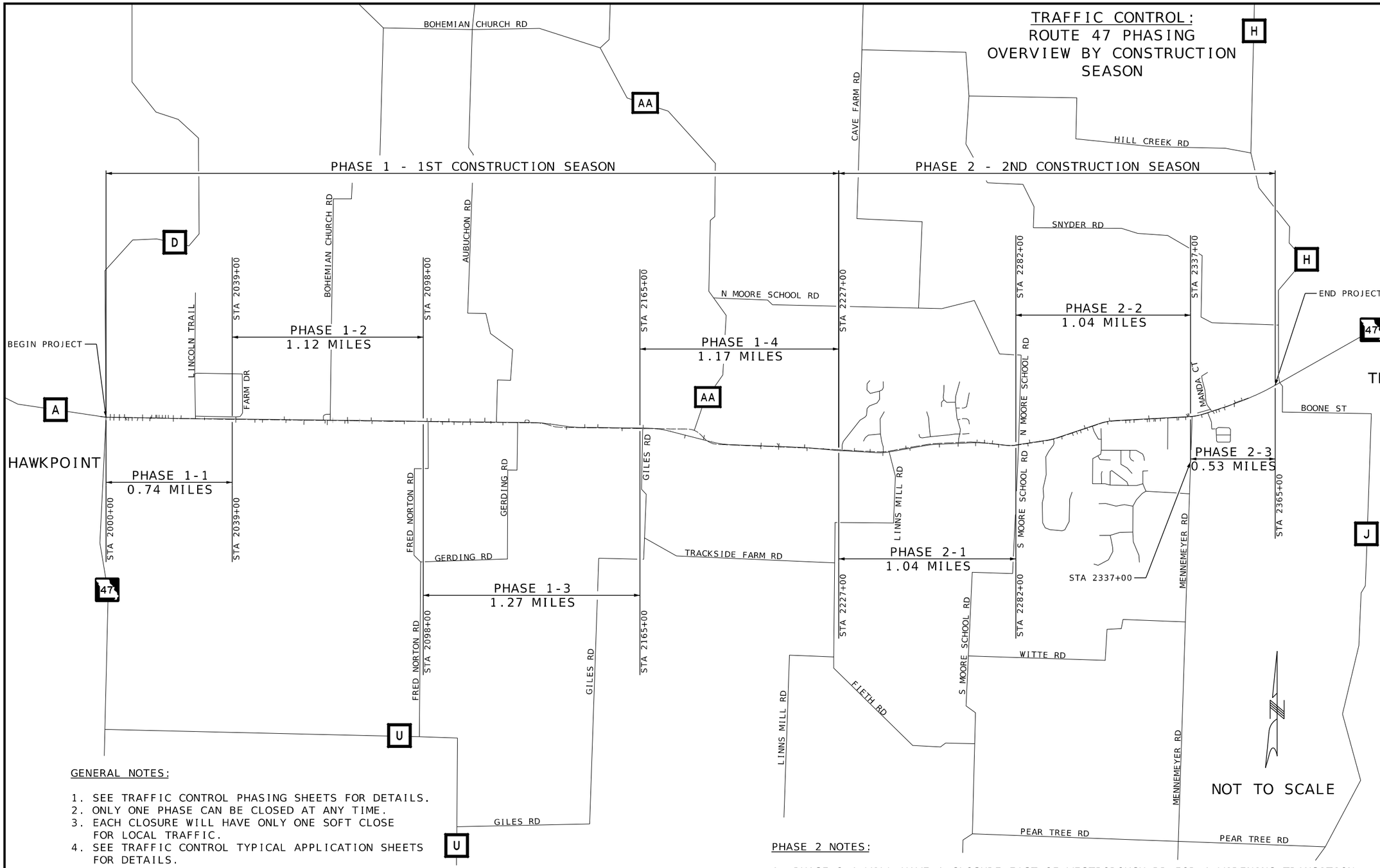
MISSOURI DESIGN FIRM PE-001166

TRAFFIC CONTROL:
ROUTE 47 PHASING OVERVIEW BY CONSTRUCTION SEASON



GENERAL NOTES:

1. SEE TRAFFIC CONTROL PHASING SHEETS FOR DETAILS.
2. ONLY ONE PHASE CAN BE CLOSED AT ANY TIME.
3. EACH CLOSURE WILL HAVE ONLY ONE SOFT CLOSE FOR LOCAL TRAFFIC.
4. SEE TRAFFIC CONTROL TYPICAL APPLICATION SHEETS FOR DETAILS.

PHASE 1 NOTES:

1. ALL PHASES TO BE CONSTRUCTED UNDER A ROAD CLOSURE.
2. PHASE 1-1 CONTAINS A CURB AND GUTTER SECTION FROM THE ROUTE A/D JUNCTION TO LINCOLN TRAIL
3. PHASE 1-2 CONTAINS A VERTICAL CURVE CORRECTION SURROUNDING BOHEMIAN CHURCH RD
4. PHASE 1-3 CONTAINS A REVERSE CURVE CORRECTION BETWEEN GERDING RD AND GILES RD
5. PHASE 1-4 CONTAINS A REVERSE CURVE CORRECTION SURROUNDING ROUTE AA

PHASE 2 NOTES:

1. PHASE 2-1 WILL HAVE A CLOSURE EAST OF WESTBOROUGH DR FOR A WIDENING TRANSITION.
2. PHASE 2-2 IS TO BE CONSTRUCTED UNDER TRAFFIC EXCEPT FOR SHORT TERM CLOSURES FOR CROSS ROAD CULVERT REPLACEMENTS.
3. PHASE 2-3 WILL HAVE A CLOSURE EAST OF MANDA CT FOR A HORIZONTAL CURVE CORRECTION.

TRAFFIC CONTROL SHEETS
SHEET 3 OF 21

STATE OF MISSOURI
JEFFREY R. RENSING
NUMBER PE-2006012376
PROFESSIONAL ENGINEER

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DATE PREPARED	8/26/2025
ROUTE	STATE
47	MO
DISTRICT	SHEET NO.
NE	172
COUNTY	LINCOLN
JOB NO.	JNE0003
CONTRACT ID.	.
PROJECT NO.	.
BRIDGE NO.	.

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

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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

OATES ASSOCIATES

Collinsville
100 Lamper Court, Suite 1
Collinsville, IL 62234
618.345.2200

Belleville
1 South Church, Suite 200
Belleville, IL 62220
618.416.6688

St. Louis
720 Olive, Suite 700
St. Louis, MO 63101
314.588.8881

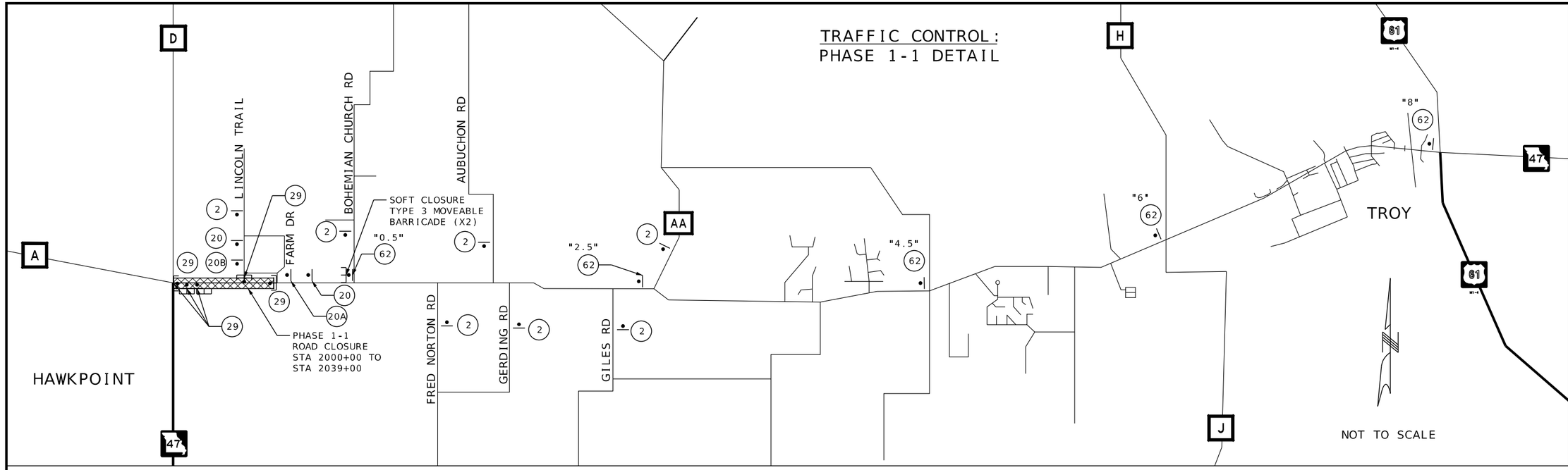
St. Charles
820 South Main, Suite 309
St. Charles, MO 63301
636.493.6277

www.oatesassociates.com

MISSOURI DESIGN FIRM PE-001166

H:\P\222102 - Route 47 Pavement, Safety, and Shoulder Improvements\CADD\Microstation\CADD Drawings\JNE0003 - sht-traffic control.dgn 10:03:33 AM 8/26/2025

TRAFFIC CONTROL:
PHASE 1-1 DETAIL



PHASE 1-1 NOTES:

THIS PHASE WILL BE DONE UNDER A CLOSURE.

THERE WILL BE A HARD CLOSURE AT THE A/D/47 JUNCTION.
PLACE BARRICADES AT THE 2 NORTH ENTRANCES OF THE GAS STATION.

THERE WILL BE A SOFT CLOSE PLACED WEST OF BOHEMIAN CHURCH RD.

ALL TRAFFIC ORIGINATING FROM WITHIN THE WORK ZONE IS TO BE DIRECTED EAST TO EXIT THE WORK ZONE.

ALL TRAFFIC COMING FROM LINCOLN TRAIL AND FARM DR IS TO BE DIRECTED TO EXIT THROUGH FARM DR AND TURN LEFT.

THIS PHASE CONTAINS:

-A 3,100 FEET LONG CURB AND GUTTER SECTION

-THE A/D/47 INTERSECTION AND THE LINCOLN TRAIL INTERSECTION

-3 CROSSROAD CULVERTS

-15 PE AND 7 CE

TRAFFIC CONTROL LEGEND

• SIGN (SINGLE SIDED)

BARRICADE

R11-3a
(62)
"X" EQUALS MILES
NOTED NEXT TO
SIGN NUMBER

PLACE 10' BEHIND
BARRICADE ON
PORTABLE MOUNT

(29)

WO20-3
(20)

WO20-3
(20A)

WO20-3
(20B)

WO20-1
(2)

GENERAL NOTES:

ACCESS IS TO BE MAINTAINED TO ALL BUSINESSES AND SIDE ROADS DURING CONSTRUCTION.

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

DISTANCES MAY BE ADJUSTED ACCORDING TO FIELD CONDITIONS. WHERE TRAFFIC BACKUPS ARE EXPECTED BEYOND THE ADVANCE WARNING AREA, ADDITIONAL SIGNING MAY BE NEEDED.

NO DIRECT PAY WILL BE MADE FOR RELOCATION OF TCP SIGNS.

ANY WORK INDICATED ON THE PLANS THAT EXTENDS BEYOND THE PROJECT LIMITS IS CONSIDERED INCIDENTAL TO AND A PART OF THE CONSTRUCTION OF THIS PROJECT.

THE CONTRACTOR SHALL, AT THE CONTRACTOR'S EXPENSE, PROVIDE AND MAINTAIN TEMPORARY PAVEMENT MARKING WHERE THE EXISTING PAVEMENT MARKINGS ARE OBLITERATED BY COLD MILLING, GRINDING, RESURFACING OR FOR ANY OTHER OPERATION. ALL CONFLICTING PAVEMENT MARKINGS SHALL BE REMOVED.

REMOVE EXISTING ENTRANCES AND SIDE STREETS WITHIN PHASE WORK LIMITS.

CONSTRUCT MISCELLANEOUS BASE, CURB, ENTRANCES, PAVEMENT, SIDE STREETS, AND ASPHALT SURFACING WITHIN PHASE WORK LIMITS.

THE CONTRACTOR SHALL COORDINATE ALL ENTRANCE STAGING / CLOSURES WITH THE PROPERTY OWNER 1 WEEK PRIOR TO COMMENCEMENT OF WORK.

SIGN	QTY EACH	DESCRIPTION
WO20-1 (2)	7	ROAD WORK AHEAD
WO20-3 (20)	2	ROAD CLOSED AHEAD
SPL SIGN (20A)	1	ROAD CLOSED 500 FT
SPL SIGN (20B)	1	ROAD CLOSED 200 FT
R11-2 (29)	4	ROAD CLOSED
R11-3A (62)	5	ROAD CLOSED "X" MILES AHEAD LOCAL TRAFFIC ONLY

TRAFFIC CONTROL SHEETS
SHEET 4 OF 21

STATE OF MISSOURI
JEFFREY R. RENSING
NUMBER PE-2006012376
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED 9/4/2025

ROUTE	STATE
47	MO
DISTRICT	SHEET NO.
NE	173

COUNTY: LINCOLN
JOB NO.: JNE0003
CONTRACT ID.:
PROJECT NO.:
BRIDGE NO.:

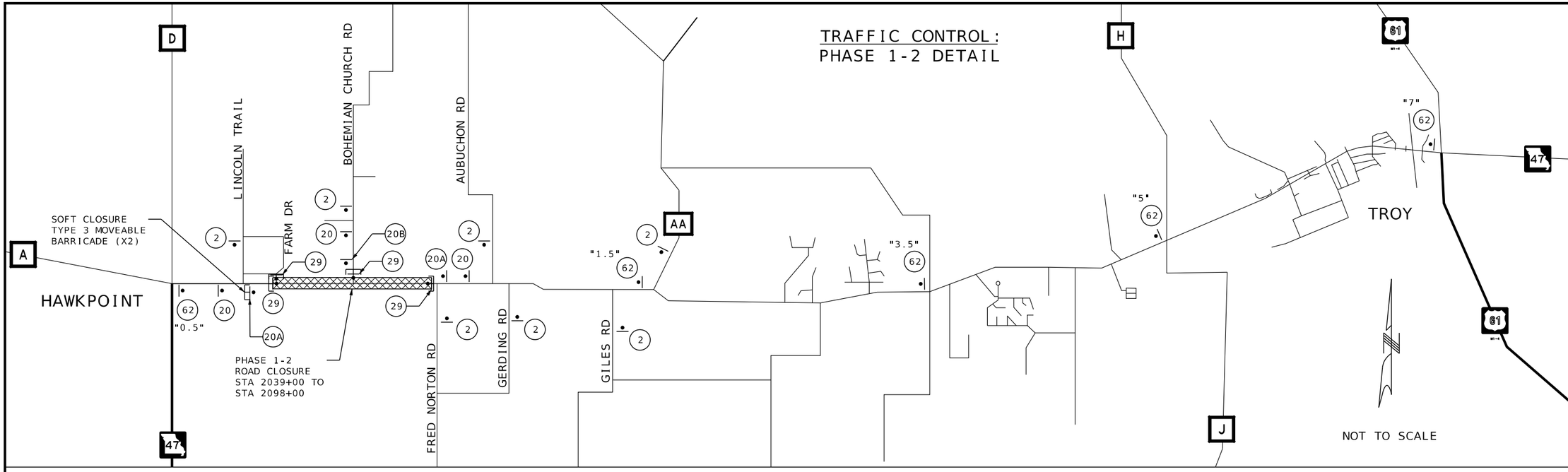
DESCRIPTION	DATE

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

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

OATES ASSOCIATES
Collinsville: 100 Lamper Court, Suite 1, Collinsville, IL 62234, 618-345-2200
St. Louis: 720 Olive, Suite 700, St. Louis, MO 63101, 314.588.8881
Belleville: 1 South Church, Suite 200, Belleville, IL 62220, 618.416.6688
St. Charles: 820 South Main, Suite 309, St. Charles, MO 63301, 636.493.6277
www.oatesassociates.com
MISSOURI DESIGN FIRM PE-001166

TRAFFIC CONTROL:
PHASE 1-2 DETAIL



PHASE 1-2 NOTES:

THIS PHASE WILL BE DONE UNDER A CLOSURE.

THERE WILL BE A HARD CLOSURE WEST OF FRED NORTON RD

THERE WILL BE A SOFT CLOSE JUST WEST OF LINCOLN TRAIL.

ALL TRAFFIC ORIGINATING FROM WITHIN THE WORK ZONE IS TO BE DIRECTED WEST TO EXIT THE WORK ZONE.

ALL TRAFFIC COMING FROM BOHEMIAN CHURCH IS TO BE DIRECTED NORTH.

ALL TRAFFIC COMING FROM FARM DRIVE IS TO BE DIRECTED WEST TO LINCOLN TRAIL.

THIS PHASE CONTAINS:

-A 3,000 FOOT LONG VERTICAL CURVE CORRECTION SURROUNDING BOHEMIAN CHURCH RD

-THE FARM DRIVE INTERSECTION AND THE BOHEMIAN CHURCH ROAD INTERSECTION

-3 CROSSROAD CULVERTS

-7 PE AND 2 CE

TRAFFIC CONTROL LEGEND

• SIGN (SINGLE SIDED)

BARRICADE

R11-3a

(62)

"X" EQUALS MILES NOTED NEXT TO SIGN NUMBER

R11-2

PLACE 10' BEHIND BARRICADE ON PORTABLE MOUNT

(29)

WO20-3

(20)

WO20-3

(20A)

WO20-3

(20B)

WO20-1

(2)

GENERAL NOTES:

ACCESS IS TO BE MAINTAINED TO ALL BUSINESSES AND SIDE ROADS DURING CONSTRUCTION.

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

DISTANCES MAY BE ADJUSTED ACCORDING TO FIELD CONDITIONS. WHERE TRAFFIC BACKUPS ARE EXPECTED BEYOND THE ADVANCE WARNING AREA, ADDITIONAL SIGNING MAY BE NEEDED.

NO DIRECT PAY WILL BE MADE FOR RELOCATION OF TCP SIGNS.

ANY WORK INDICATED ON THE PLANS THAT EXTENDS BEYOND THE PROJECT LIMITS IS CONSIDERED INCIDENTAL TO AND A PART OF THE CONSTRUCTION OF THIS PROJECT.

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REMOVE EXISTING ENTRANCES AND SIDE STREETS WITHIN PHASE WORK LIMITS.

CONSTRUCT MISCELLANEOUS BASE, CURB, ENTRANCES, PAVEMENT, SIDE STREETS, AND ASPHALT SURFACING WITHIN PHASE WORK LIMITS.

THE CONTRACTOR SHALL COORDINATE ALL ENTRANCE STAGING / CLOSURES WITH THE PROPERTY OWNER 1 WEEK PRIOR TO COMMENCEMENT OF WORK.

SIGN	QTY EACH	DESCRIPTION
WO20-1 (2)	7	ROAD WORK AHEAD
WO20-3 (20)	3	ROAD CLOSED AHEAD
SPL SIGN (20A)	2	ROAD CLOSED 500 FT
SPL SIGN (20B)	1	ROAD CLOSED 200 FT
R11-2 (29)	4	ROAD CLOSED
R11-3A (62)	5	ROAD CLOSED "X" MILES AHEAD LOCAL TRAFFIC ONLY

TRAFFIC CONTROL SHEETS
SHEET 5 OF 21

STATE OF MISSOURI
JEFFREY R. RENSING
NUMBER PE-2006012376
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED 9/4/2025

ROUTE	STATE
47	MO
DISTRICT	SHEET NO.
NE	174

COUNTY: LINCOLN
JOB NO.: JNE0003
CONTRACT ID.:
PROJECT NO.:
BRIDGE NO.:

DESCRIPTION	DATE

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

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

OATES ASSOCIATES
Collinsville: 100 Lamper Court, Suite 1, Collinsville, IL 62234, 618-345-2200
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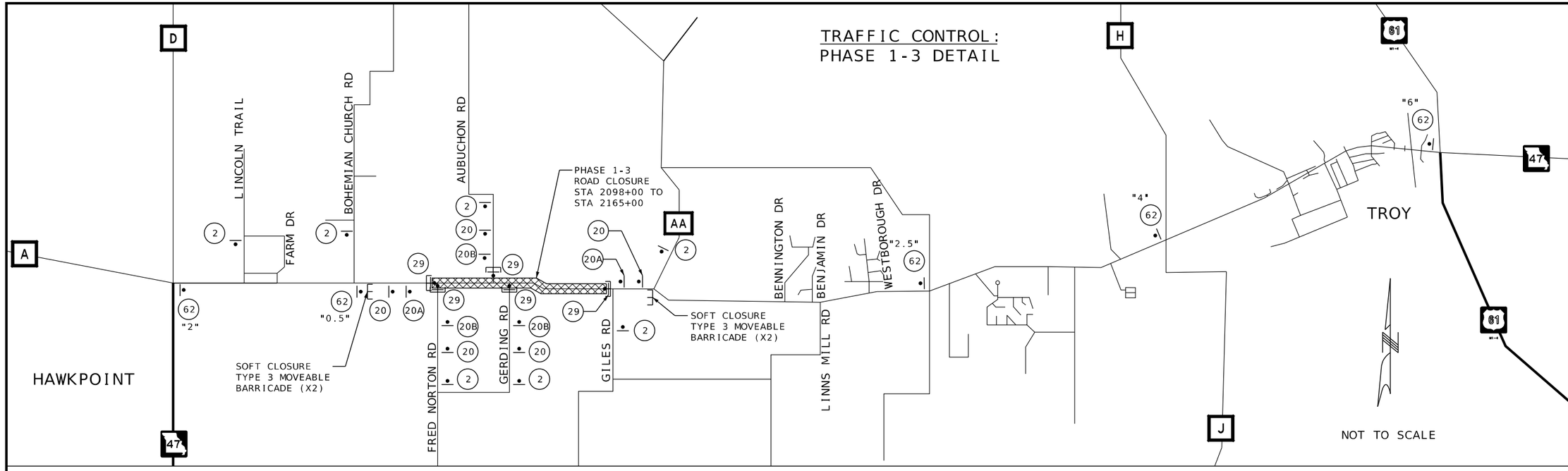
www.oatesassociates.com
MISSOURI DESIGN FIRM PE-001166

TRAFFIC CONTROL:
PHASE 1-3 DETAIL



PHASE 1-3 NOTES:

THIS PHASE WILL BE DONE UNDER A CLOSURE.

THERE WILL BE A HARD CLOSURE WEST OF GILES RD

THERE WILL BE A SOFT CLOSE EAST OF BOHEMIAN CHURCH RD AND WEST OF ROUTE AA.

ALL TRAFFIC ORIGINATING FROM WITHIN THE WORK ZONE IS TO BE DIRECTED WEST TO EXIT THE WORK ZONE.

ALL TRAFFIC COMING FROM AUBUCHON IS TO BE DIRECTED NORTH.

ALL TRAFFIC COMING FROM FRED NORTON RD AND GERDING IS TO BE DIRECTED SOUTH.

THIS PHASE CONTAINS:

-A 1,900 FOOT LONG REVERSE CURVE CORRECTION BETWEEN GERDING RD AND GILES RD.

-THE INTERSECTIONS OF FRED NORTON RD, AUBUCHON RD, AND GERDING RD.

-3 CROSSROAD CULVERTS

-12 PE

TRAFFIC CONTROL LEGEND

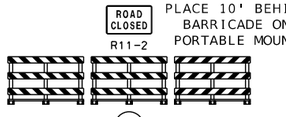
• SIGN (SINGLE SIDED)

BARRICADE

R11-3a

(62)

"X" EQUALS MILES NOTED NEXT TO SIGN NUMBER



PLACE 10' BEHIND BARRICADE ON PORTABLE MOUNT

(29)

WO20-3

(20)

WO20-3

(20A)

WO20-3

(20B)

WO20-1

(2)

GENERAL NOTES:

ACCESS IS TO BE MAINTAINED TO ALL BUSINESSES AND SIDE ROADS DURING CONSTRUCTION.

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

DISTANCES MAY BE ADJUSTED ACCORDING TO FIELD CONDITIONS. WHERE TRAFFIC BACKUPS ARE EXPECTED BEYOND THE ADVANCE WARNING AREA, ADDITIONAL SIGNING MAY BE NEEDED.

NO DIRECT PAY WILL BE MADE FOR RELOCATION OF TCP SIGNS.

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REMOVE EXISTING ENTRANCES AND SIDE STREETS WITHIN PHASE WORK LIMITS.

CONSTRUCT MISCELLANEOUS BASE, CURB, ENTRANCES, PAVEMENT, SIDE STREETS, AND ASPHALT SURFACING WITHIN PHASE WORK LIMITS.

THE CONTRACTOR SHALL COORDINATE ALL ENTRANCE STAGING / CLOSURES WITH THE PROPERTY OWNER 1 WEEK PRIOR TO COMMENCEMENT OF WORK.

SIGN	QTY EACH	DESCRIPTION
WO20-1 (2)	7	ROAD WORK AHEAD
WO20-3 (20)	5	ROAD CLOSED AHEAD
SPL SIGN (20A)	2	ROAD CLOSED 500 FT
SPL SIGN (20B)	3	ROAD CLOSED 200 FT
R11-2 (29)	5	ROAD CLOSED
R11-3A (62)	5	ROAD CLOSED "X" MILES AHEAD LOCAL TRAFFIC ONLY

TRAFFIC CONTROL SHEETS
SHEET 6 OF 21

STATE OF MISSOURI
JEFFREY R. RENSING
NUMBER PE-2006012376
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED 9/4/2025

ROUTE	STATE
47	MO
DISTRICT	SHEET NO.
NE	175

COUNTY: LINCOLN
JOB NO.: JNE0003
CONTRACT ID.:
PROJECT NO.:
BRIDGE NO.:

DATE	DESCRIPTION

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

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

OATES ASSOCIATES
Collinsville: 100 Lamper Court, Suite 1, Collinsville, IL 62234, 618-345-2200
Belleville: 1 South Church, Suite 200, Belleville, IL 62220, 618-416-6688
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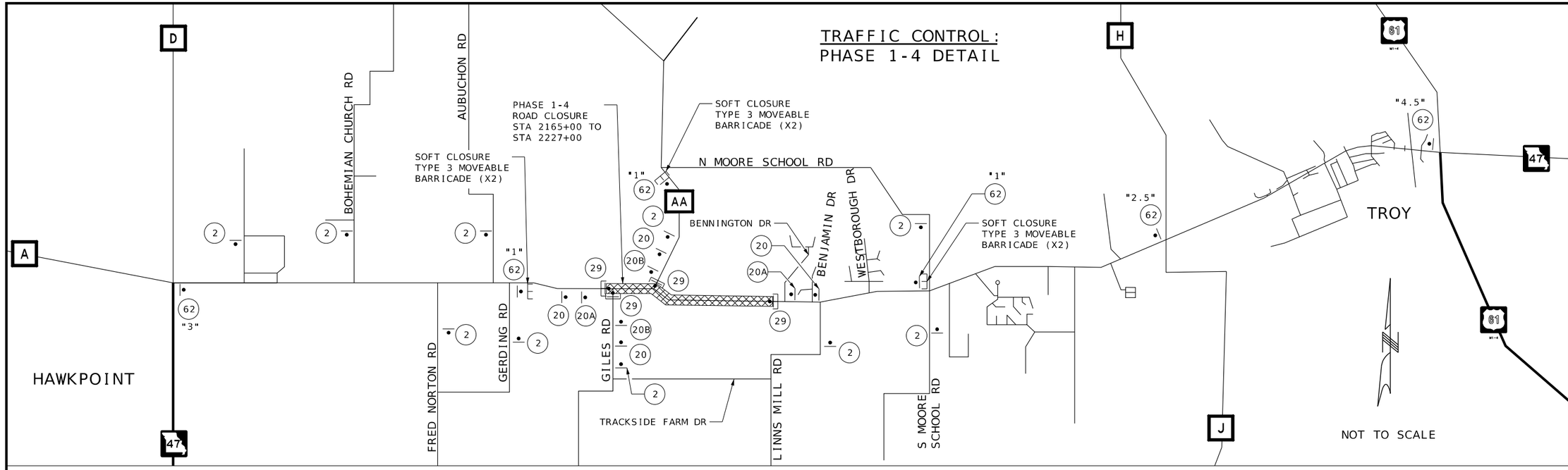
St. Charles: 820 South Main, Suite 309, St. Charles, MO 63301, 636.493.6277
www.oatesassociates.com
MISSOURI DESIGN FIRM PE-001166

TRAFFIC CONTROL: PHASE 1-4 DETAIL



PHASE 1-4 NOTES:

THIS PHASE WILL BE DONE UNDER A CLOSURE.

THERE WILL BE A HARD CLOSURE WEST OF BENNINGTON DR.

THERE WILL BE A SOFT CLOSE ON ROUTE 47 EAST OF GERDING RD. AND WEST OF N MOORE SCHOOL RD. THERE WILL BE A THIRD SOFT CLOSING ON ROUTE AA JUST SOUTH OF N MOORE SCHOOL RD.

ALL TRAFFIC ORIGINATING FROM WITHIN THE WORK ZONE IS TO BE DIRECTED WEST TO EXIT THE WORK ZONE.

ALL TRAFFIC COMING FROM ROUTE AA IS TO BE DIRECTED NORTH.

ALL TRAFFIC COMING FROM GILES RD IS TO BE DIRECTED SOUTH.

THIS PHASE CONTAINS:

-A 2,900 FOOT LONG REVERSE CURVE CORRECTION SURROUNDING ROUTE AA.

-THE INTERSECTIONS OF ROUTE AA AND GILES RD.

-4 CROSSROAD CULVERTS

-2 PE

TRAFFIC CONTROL LEGEND

• SIGN (SINGLE SIDED)

BARRICADE

R11-3a

(62)

"X" EQUALS MILES NOTED NEXT TO SIGN NUMBER

PLACE 10' BEHIND BARRICADE ON PORTABLE MOUNT

(29)

WO20-3

(20)

WO20-3

(20A)

WO20-3

(20B)

WO20-1

(2)

GENERAL NOTES:

ACCESS IS TO BE MAINTAINED TO ALL BUSINESSES AND SIDE ROADS DURING CONSTRUCTION.

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

DISTANCES MAY BE ADJUSTED ACCORDING TO FIELD CONDITIONS. WHERE TRAFFIC BACKUPS ARE EXPECTED BEYOND THE ADVANCE WARNING AREA, ADDITIONAL SIGNING MAY BE NEEDED.

NO DIRECT PAY WILL BE MADE FOR RELOCATION OF TCP SIGNS.

ANY WORK INDICATED ON THE PLANS THAT EXTENDS BEYOND THE PROJECT LIMITS IS CONSIDERED INCIDENTAL TO AND A PART OF THE CONSTRUCTION OF THIS PROJECT.

THE CONTRACTOR SHALL, AT THE CONTRACTOR'S EXPENSE, PROVIDE AND MAINTAIN TEMPORARY PAVEMENT MARKING WHERE THE EXISTING PAVEMENT MARKINGS ARE OBLITERATED BY COLD MILLING, GRINDING, RESURFACING OR FOR ANY OTHER OPERATION. ALL CONFLICTING PAVEMENT MARKINGS SHALL BE REMOVED.

REMOVE EXISTING ENTRANCES AND SIDE STREETS WITHIN PHASE WORK LIMITS.

CONSTRUCT MISCELLANEOUS BASE, CURB, ENTRANCES, PAVEMENT, SIDE STREETS, AND ASPHALT SURFACING WITHIN PHASE WORK LIMITS.

THE CONTRACTOR SHALL COORDINATE ALL ENTRANCE STAGING / CLOSURES WITH THE PROPERTY OWNER 1 WEEK PRIOR TO COMMENCEMENT OF WORK.

SIGN	QTY EACH	DESCRIPTION
WO20-1 (2)	10	ROAD WORK AHEAD
WO20-3 (20)	4	ROAD CLOSED AHEAD
SPL SIGN (20A)	2	ROAD CLOSED 500 FT
SPL SIGN (20B)	2	ROAD CLOSED 200 FT
R11-2 (29)	4	ROAD CLOSED
R11-3A (62)	6	ROAD CLOSED "X" MILES AHEAD LOCAL TRAFFIC ONLY

TRAFFIC CONTROL SHEETS
SHEET 7 OF 21

STATE OF MISSOURI
JEFFREY R. RENSING
NUMBER PE-2006012376
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED 9/4/2025

ROUTE	STATE
47	MO
DISTRICT	SHEET NO.
NE	176

COUNTY: LINCOLN
JOB NO.: JNE0003
CONTRACT ID.:
PROJECT NO.:
BRIDGE NO.:

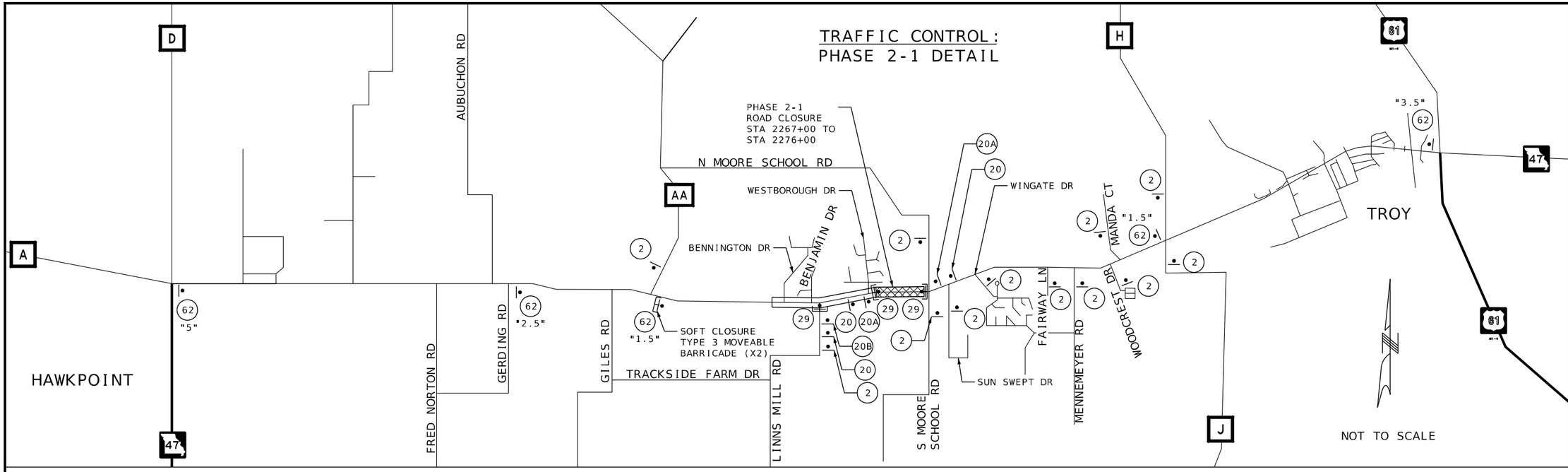
DESCRIPTION	DATE

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

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

OATES ASSOCIATES
St. Louis: 720 Olive, Suite 700, St. Louis, MO 63101, 314-588-8383
St. Charles: 820 South Main, Suite 309, St. Charles, MO 63301, 636-493-5277
Collinsville: 100 Lamer Court, Suite 1, Collinsville, IL 62234, 618-343-2200
Belleville: 1 South Church, Suite 200, Belleville, IL 62220, 618-416-4688
www.oatesassociates.com
MISSOURI DESIGN FIRM PE-001166

TRAFFIC CONTROL:
PHASE 2-1 DETAIL



PHASE 2-1 NOTES:

THERE WILL BE A SHORT CLOSURE DURING THIS PHASE FROM EAST OF WESTBOROUGH DR TO WEST OF N MOORE SCHOOL RD.

BOTH SIDES WILL HAVE A HARD CLOSURE.

THERE WILL BE A SOFT CLOSE EAST OF ROUTE AA.

ALL TRAFFIC ORIGINATING FROM WITHIN THE WORK ZONE IS TO BE DIRECTED WEST TO EXIT THE WORK ZONE.

ALL TRAFFIC COMING FROM LINNS MILL RD WILL BE DIRECTED SOUTH.

THIS PHASE CONTAINS:

-A 900 FOOT LONG WIDENING TRANSITION FROM SOUTH TO NORTH BETWEEN WESTBOROUGH DR AND N MOORE SCHOOL RD.

-THE INTERSECTIONS OF BENNINGTON DR, BENJAMIN DR, LINNS MILL RD, AND WESTBOROUGH DR.

-3 CROSSROAD CULVERTS

-4 PE

TRAFFIC CONTROL LEGEND

SIGN (SINGLE SIDED)

BARRICADE

R11-3a

(62)

"X" EQUALS MILES NOTED NEXT TO SIGN NUMBER

R11-2

PLACE 10' BEHIND BARRICADE ON PORTABLE MOUNT

(29)

WO20-3

(20)

WO20-3

(20A)

WO20-3

(20B)

WO20-1

(2)

GENERAL NOTES:

ACCESS IS TO BE MAINTAINED TO ALL BUSINESSES AND SIDE ROADS DURING CONSTRUCTION.

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REMOVE EXISTING ENTRANCES AND SIDE STREETS WITHIN PHASE WORK LIMITS.

CONSTRUCT MISCELLANEOUS BASE, CURB, ENTRANCES, PAVEMENT, SIDE STREETS, AND ASPHALT SURFACING WITHIN PHASE WORK LIMITS.

THE CONTRACTOR SHALL COORDINATE ALL ENTRANCE STAGING / CLOSURES WITH THE PROPERTY OWNER 1 WEEK PRIOR TO COMMENCEMENT OF WORK.

SIGN	QTY EACH	DESCRIPTION
WO20-1 (2)	12	ROAD WORK AHEAD
WO20-3 (20)	3	ROAD CLOSED AHEAD
SPL SIGN (20A)	2	ROAD CLOSED 500 FT
SPL SIGN (20B)	1	ROAD CLOSED 200 FT
R11-2 (29)	3	ROAD CLOSED
R11-3A (62)	5	ROAD CLOSED "X" MILES AHEAD LOCAL TRAFFIC ONLY

TRAFFIC CONTROL SHEETS
SHEET 8 OF 21

STATE OF MISSOURI
JEFFREY R. RENSING
NUMBER PE-2006012376
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

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

DATE PREPARED: 9/4/2025

ROUTE	STATE
47	MO
DISTRICT	SHEET NO.
NE	177

COUNTY: LINCOLN

JOB NO.: JNE0003

CONTRACT ID.:

PROJECT NO.:

BRIDGE NO.:

DESCRIPTION	DATE

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

OATES ASSOCIATES
MISSOURI DESIGN FIRM PE-001166
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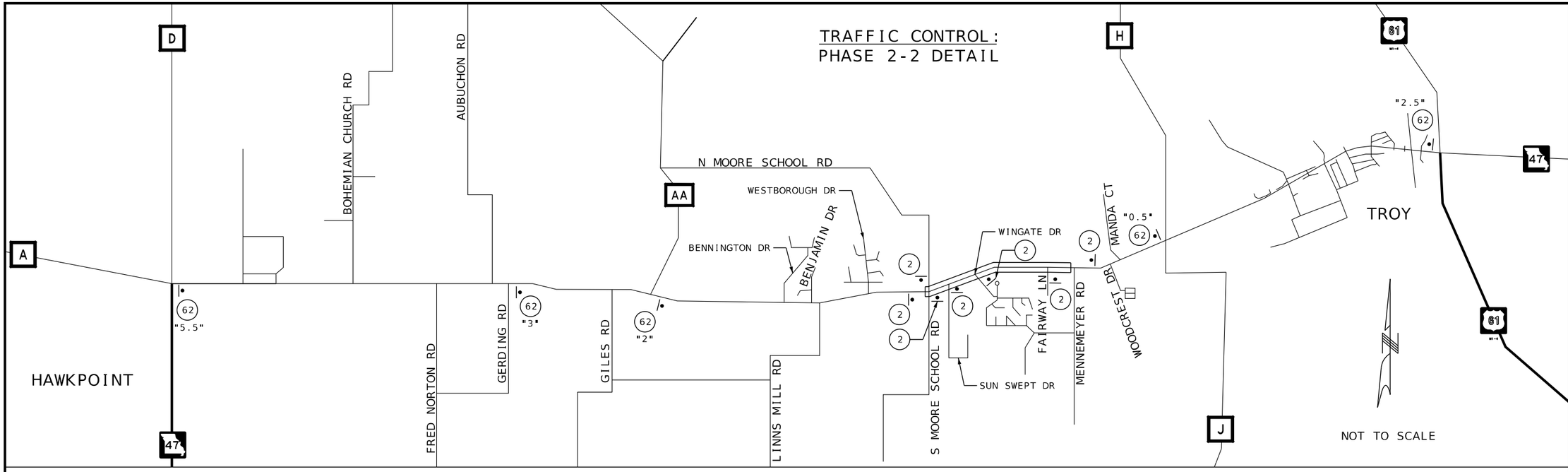
www.oatesassociates.com

TRAFFIC CONTROL:
PHASE 2-2 DETAIL



NOT TO SCALE

PHASE 2-2 NOTES:

THIS PHASE WILL BE DONE UNDER TRAFFIC WITH EXCEPTION OF REPLACING THE CROSS ROAD CULVERTS. THESE WILL REQUIRE A TEMPORARY SHORT TERM CLOSURE SCHEDULED WITH APPROVAL FROM THE RESIDENT ENGINEER.

THIS PHASE CONTAINS:

-A 5,500 FOOT LONG WIDENING TO THE SOUTH.

-A NEW DETENTION BASIN

-THE INTERSECTIONS OF N MOORE SCHOOL RD, S MOORE SCHOOL RD, SUN SWEPT DR, AND WINGATE DR.

-2 CROSSROAD CULVERTS, ADD TYPE 3 MOVEABLE BARRICADES FOR ROAD CLOSURE, 2 SEPERATE CLOSURES ANTICIPATED AND THEY CANNOT BE COMPLETED SIMULTANEOUSLY.

-13 PE AND 9 CE

WO20-3
20

WO20-3
20A

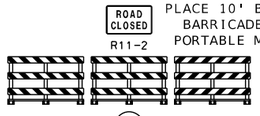
WO20-3
20B

WO20-1
2

TRAFFIC CONTROL LEGEND

- SIGN (SINGLE SIDED)
- BARRICADE

R11-3a
62
"X" EQUALS MILES NOTED NEXT TO SIGN NUMBER



PLACE 10' BEHIND BARRICADE ON PORTABLE MOUNT

29

GENERAL NOTES:

ACCESS IS TO BE MAINTAINED TO ALL BUSINESSES AND SIDE ROADS DURING CONSTRUCTION.

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

DISTANCES MAY BE ADJUSTED ACCORDING TO FIELD CONDITIONS. WHERE TRAFFIC BACKUPS ARE EXPECTED BEYOND THE ADVANCE WARNING AREA, ADDITIONAL SIGNING MAY BE NEEDED.

NO DIRECT PAY WILL BE MADE FOR RELOCATION OF TCP SIGNS.

ANY WORK INDICATED ON THE PLANS THAT EXTENDS BEYOND THE PROJECT LIMITS IS CONSIDERED INCIDENTAL TO AND A PART OF THE CONSTRUCTION OF THIS PROJECT.

THE CONTRACTOR SHALL, AT THE CONTRACTOR'S EXPENSE, PROVIDE AND MAINTAIN TEMPORARY PAVEMENT MARKING WHERE THE EXISTING PAVEMENT MARKINGS ARE OBLITERATED BY COLD MILLING, GRINDING, RESURFACING OR FOR ANY OTHER OPERATION. ALL CONFLICTING PAVEMENT MARKINGS SHALL BE REMOVED.

REMOVE EXISTING ENTRANCES AND SIDE STREETS WITHIN PHASE WORK LIMITS.

CONSTRUCT MISCELLANEOUS BASE, CURB, ENTRANCES, PAVEMENT, SIDE STREETS, AND ASPHALT SURFACING WITHIN PHASE WORK LIMITS.

THE CONTRACTOR SHALL COORDINATE ALL ENTRANCE STAGING / CLOSURES WITH THE PROPERTY OWNER 1 WEEK PRIOR TO COMMENCEMENT OF WORK.

	SIGN	QTY EACH	DESCRIPTION
	WO20-1 (2)	7	ROAD WORK AHEAD
*	WO20-3 (20)	2	ROAD CLOSED AHEAD
*	SPL SIGN (20A)	2	ROAD CLOSED 500 FT
*	SPL SIGN (20B)	2	ROAD CLOSED 200 FT
*	R11-2 (29)	2	ROAD CLOSED
	R11-3A (62)	5	ROAD CLOSED "X" MILES AHEAD LOCAL TRAFFIC ONLY

* TO BE USED FOR CROSS ROAD CULVERT CLOSURES. RELOCATE SIGN FOR SECOND CULVERT

TRAFFIC CONTROL SHEETS
SHEET 9 OF 21

STATE OF MISSOURI
JEFFREY R. RENSING
NUMBER PE-2006012376
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED 9/4/2025

ROUTE	STATE
47	MO
DISTRICT	SHEET NO.
NE	178

COUNTY: LINCOLN
JOB NO.: JNE0003
CONTRACT ID.:
PROJECT NO.:
BRIDGE NO.:

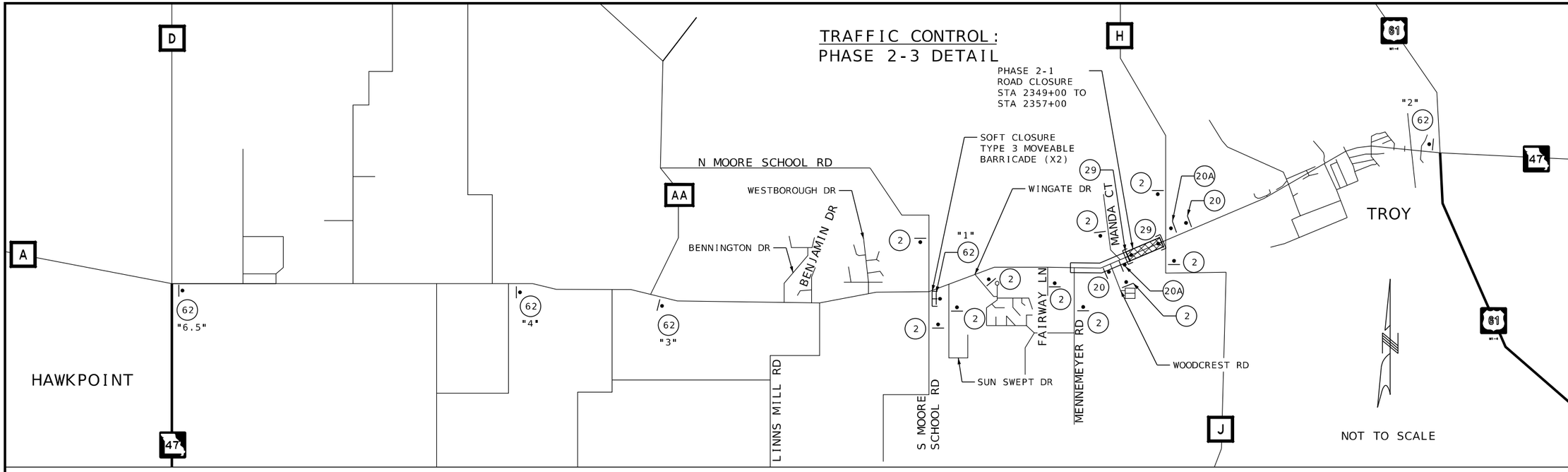
DATE	DESCRIPTION

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

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

OATES ASSOCIATES
MISSOURI DESIGN FIRM PE-001166
Collinsville: 100 Lamper Court, Suite 1, Collinsville, IL 62234, 618-345-2200
Belleville: 1 South Church, Suite 200, Belleville, IL 62220, 618-416-6688
St. Louis: 720 Olive, Suite 700, St. Louis, MO 63101, 314.588.8881
St. Charles: 820 South Main, Suite 309, St. Charles, MO 63301, 636.493.6277
www.oatesassociates.com

TRAFFIC CONTROL:
PHASE 2-3 DETAIL



PHASE 2-3 NOTES:

THIS PHASE WILL BE DONE UNDER A SHORT CLOSURE BETWEEN MANDA CT AND THE JUNCTION OF ROUTE H AND J.

THERE WILL BE A HARD CLOSURE WEST OF ROUTE H AND J.

THERE WILL BE A SOFT CLOSE EAST OF N MOORE SCHOOL RD.

ALL TRAFFIC ORIGINATING FROM WITHIN THE WORK ZONE IS TO BE DIRECTED WEST TO EXIT THE WORK ZONE.

THIS PHASE CONTAINS:

-A 800 FOOT LONG HORIZONTAL CURVE CORRECTION.

-A NEW DETENTION BASIN

-THE INTERSECTIONS OF MENNEMEYER RD, WOODCREST RD, AND MANDA CT.

-2 CULVERT EXTENSIONS

-6 PE AND 1 CE

TRAFFIC CONTROL LEGEND

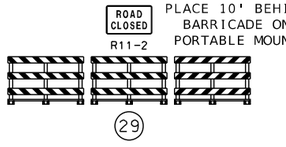
• SIGN (SINGLE SIDED)

BARRICADE

R11-3a

62

"X" EQUALS MILES NOTED NEXT TO SIGN NUMBER



PLACE 10' BEHIND BARRICADE ON PORTABLE MOUNT

29

WO20-3

20

WO20-3

20A

WO20-1

2

GENREAL NOTES:

ACCESS IS TO BE MAINTAINED TO ALL BUSINESSES AND SIDE ROADS DURING CONSTRUCTION.

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

DISTANCES MAY BE ADJUSTED ACCORDING TO FIELD CONDITIONS. WHERE TRAFFIC BACKUPS ARE EXPECTED BEYOND THE ADVANCE WARNING AREA, ADDITIONAL SIGNING MAY BE NEEDED.

NO DIRECT PAY WILL BE MADE FOR RELOCATION OF TCP SIGNS.

ANY WORK INDICATED ON THE PLANS THAT EXTENDS BEYOND THE PROJECT LIMITS IS CONSIDERED INCIDENTAL TO AND A PART OF THE CONSTRUCTION OF THIS PROJECT.

THE CONTRACTOR SHALL, AT THE CONTRACTOR'S EXPENSE, PROVIDE AND MAINTAIN TEMPORARY PAVEMENT MARKING WHERE THE EXISTING PAVEMENT MARKINGS ARE OBLITERATED BY COLD MILLING, GRINDING, RESURFACING OR FOR ANY OTHER OPERATION. ALL CONFLICTING PAVEMENT MARKINGS SHALL BE REMOVED.

REMOVE EXISTING ENTRANCES AND SIDE STREETS WITHIN PHASE WORK LIMITS.

CONSTRUCT MISCELLANEOUS BASE, CURB, ENTRANCES, PAVEMENT, SIDE STREETS, AND ASPHALT SURFACING WITHIN PHASE WORK LIMITS.

THE CONTRACTOR SHALL COORDINATE ALL ENTRANCE STAGING / CLOSURES WITH THE PROPERTY OWNER 1 WEEK PRIOR TO COMMENCEMENT OF WORK.

SIGN	QTY EACH	DESCRIPTION
WO20-1 (2)	10	ROAD WORK AHEAD
WO20-3 (20)	2	ROAD CLOSED AHEAD
SPL SIGN (20A)	2	ROAD CLOSED 500 FT
SPL SIGN (20B)	-	ROAD CLOSED 200 FT
R11-2 (29)	2	ROAD CLOSED
R11-3A (62)	5	ROAD CLOSED "X" MILES AHEAD LOCAL TRAFFIC ONLY

TRAFFIC CONTROL SHEETS
SHEET 10 OF 21

STATE OF MISSOURI
JEFFREY R. RENSING
NUMBER PE-2006012376
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

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

DATE PREPARED: 9/4/2025

ROUTE	STATE
47	MO
DISTRICT	SHEET NO.
NE	179

COUNTY: LINCOLN

JOB NO.: JNE0003

CONTRACT ID.: .

PROJECT NO.: .

BRIDGE NO.: .

DATE	DESCRIPTION
.	.

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
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OATES ASSOCIATES

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St. Charles
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636.493.6277

Collinsville
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618.345.2200

Belleville
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618.416.6688

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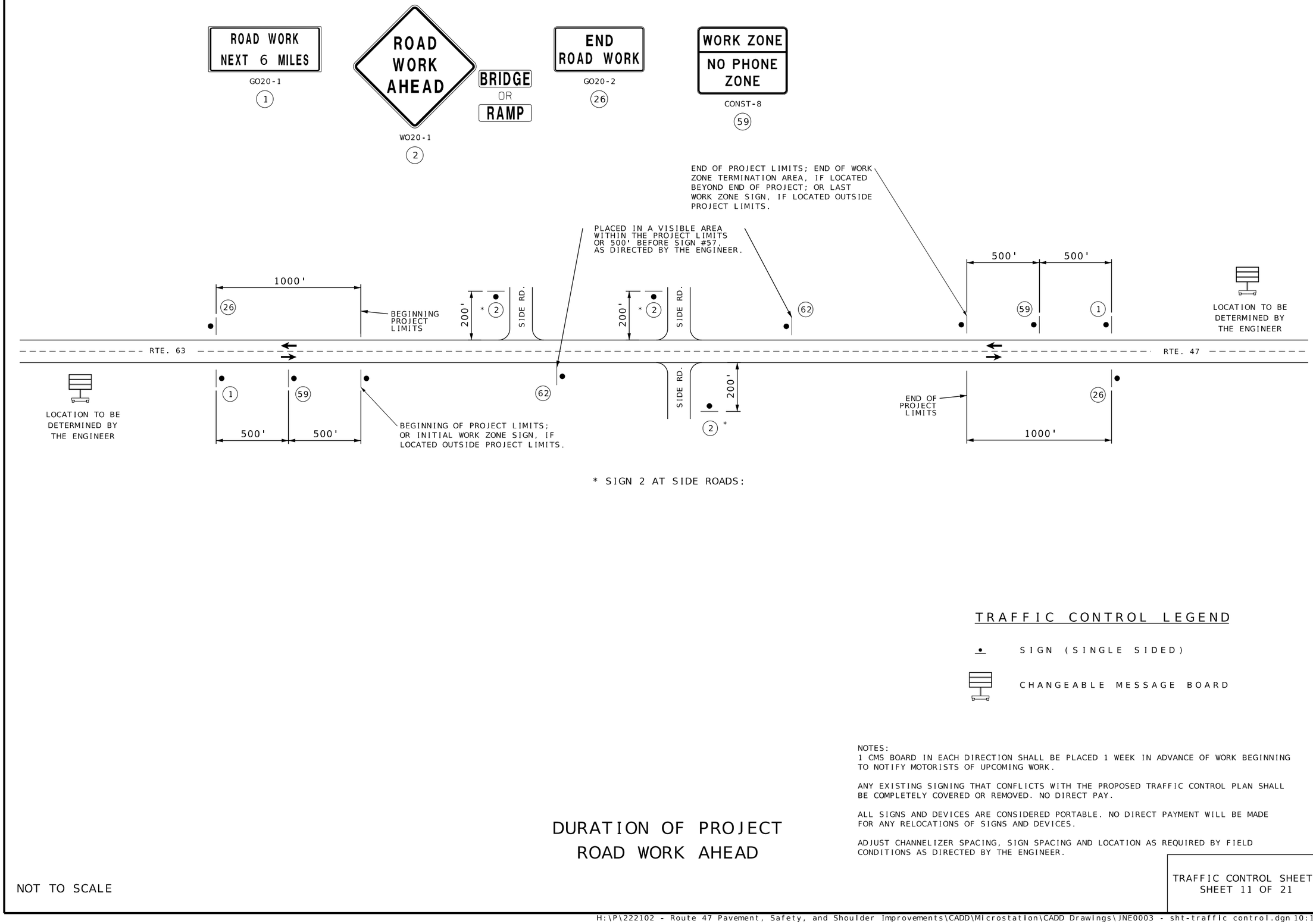

* SIGN 2 AT SIDE ROADS:

TRAFFIC CONTROL LEGEND

- SIGN (SINGLE SIDED)
- CHANGEABLE MESSAGE BOARD

NOTES:
1 CMS BOARD IN EACH DIRECTION SHALL BE PLACED 1 WEEK IN ADVANCE OF WORK BEGINNING TO NOTIFY MOTORISTS OF UPCOMING WORK.

ANY EXISTING SIGNING THAT CONFLICTS WITH THE PROPOSED TRAFFIC CONTROL PLAN SHALL BE COMPLETELY COVERED OR REMOVED. NO DIRECT PAY.

ALL SIGNS AND DEVICES ARE CONSIDERED PORTABLE. NO DIRECT PAYMENT WILL BE MADE FOR ANY RELOCATIONS OF SIGNS AND DEVICES.

ADJUST CHANNELIZER SPACING, SIGN SPACING AND LOCATION AS REQUIRED BY FIELD CONDITIONS AS DIRECTED BY THE ENGINEER.

DURATION OF PROJECT
ROAD WORK AHEAD

NOT TO SCALE

TRAFFIC CONTROL SHEETS
SHEET 11 OF 21

STATE OF MISSOURI
JEFFREY R. RENSING
NUMBER PE-2006012376
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED 8/26/2025

ROUTE	STATE
47	MO
DISTRICT	SHEET NO.
NE	180

COUNTY LINCOLN
JOB NO. JNE0003
CONTRACT ID. .
PROJECT NO. .
BRIDGE NO. .

DESCRIPTION	DATE
.	.

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

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

OATES ASSOCIATES
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820 South Main, Suite 309
St. Charles, MO 63301
636.493.6277
Collinsville
100 Lamer Court, Suite 1
Collinsville, IL 62234
618.345.2200
Belleville
1 South Church, Suite 200
Belleville, IL 62220
618.416.4868
www.oatesassociates.com
MISSOURI DESIGN FIRM PE-001166

W020-1

(2)

W020-3

(20)

W020-3

(21)

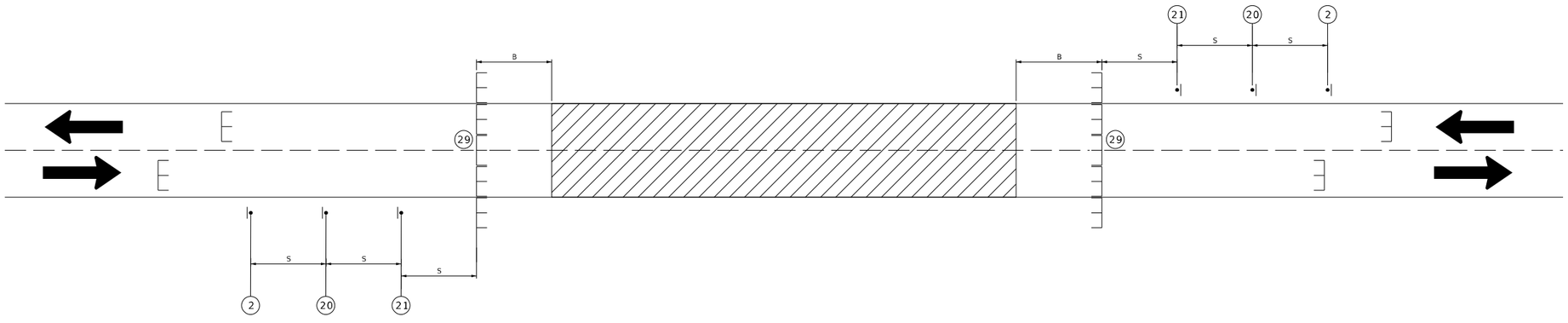
R11-2

(29)

NOTES:

ROAD CLOSURE FOR LENGTH OF ROAD RECONSTRUCTION SURROUNDING BOHEMIAN CHURCH ROAD

1 EXACT LOCATION AS DIRECTED BY THE ENGINEER



TRAFFIC CONTROL LEGEND

- SIGN (SINGLE SIDED)
- SIGN (DOUBLE SIDED)
- FLAGGER
- CONE
- CHANNELIZER
- BARRICADE
- CHANGEABLE MESSAGE BOARD
- ARROW BOARD
- WORK AREA
- TRAFFIC FLOW

SIGN SPACING FOR ADVANCE SIGN SERIES		
PERMANENT POSTED SPEED MPH	UNDIVIDED HIGHWAYS (S)	DIVIDED HIGHWAYS (S)
0-35	200 FT	200 FT
40-45	350 FT	500 FT
50-55	500 FT	1000 FT

TRAFFIC CONTROL:
TYPICAL APPLICATION
ROAD CLOSURE

TAPER LENGTHS AND SPACING OF CHANNELIZING DEVICES					
PERMANENT POSTED SPEED MPH	MINIMUM LANE TAPER LENGTH (T2) BASED ON 12' LANE	MINIMUM SHOULDER TAPER LENGTH (T1) BASED ON 10' SHOULDER	BUFFER LENGTH FT. (B)	MAXIMUM CHANNELIZER SPACING	
				THROUGH TAPER	THROUGH WORK AREA
0-35	N/A	N/A	250'	N/A	N/A
40-45	N/A	N/A	360'	N/A	N/A
50-55	N/A	N/A	495'	N/A	N/A

TRAFFIC CONTROL SHEETS
SHEET 12 OF 21

STATE OF MISSOURI
JEFFREY R. RENSING
NUMBER PE-2006012376
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

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

DATE PREPARED 8/26/2025

ROUTE	STATE
47	MO
DISTRICT	SHEET NO.
NE	181

COUNTY: LINCOLN

JOB NO.: JNE0003

CONTRACT ID.: .

PROJECT NO.: .

BRIDGE NO.: .

DESCRIPTION	DATE
.	.

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

105 WEST CAPITOL
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Belleville, IL 62220
618.416.4666

www.oatesassociates.com

MISSOURI DESIGN FIRM PE-001166

TRAFFIC CONTROL:
TYPICAL APPLICATION
LANE DROP WITH FLAGGERS

W020-1

(2)

W020-4

(7)

W020-7a

(8)

G020-4

(53)

SIGN 53, "PILOT CAR FOLLOW ME" SHALL BE THE CONTRACTOR'S RESPONSIBILITY WHEN IN USE DURING OPERATION

NOTES:

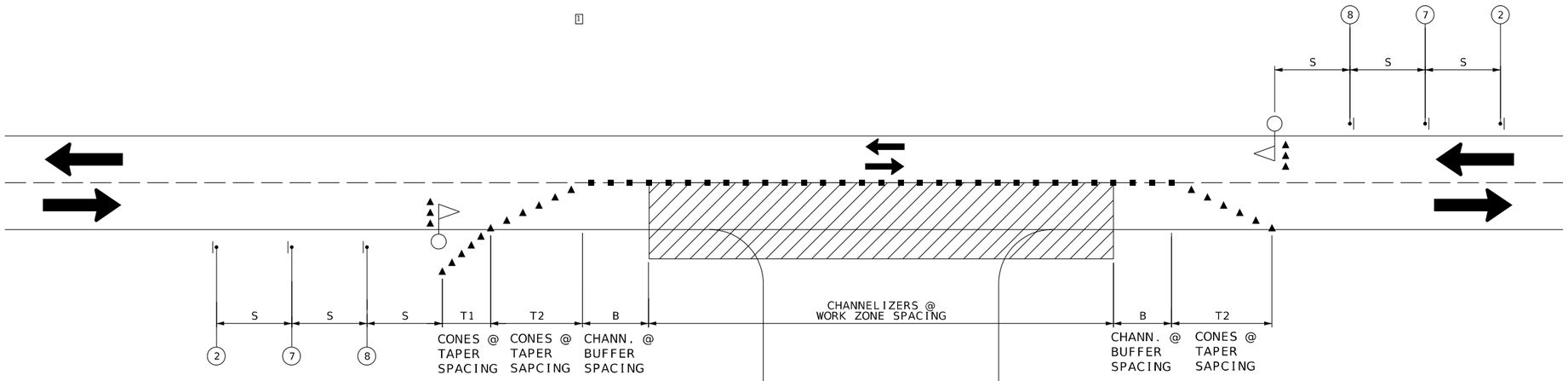
QUANTITIES CALCULATED BASED ON ONE LANE DROP AT A TIME (2 MILE LENGTH).

USE SETUP FOR REMOVAL OF TEMPORARY PAVEMENT MARKING.

THIS OPERATION TO BE PERFORMED AT NIGHT, SEE JSP.

EXACT LOCATION AS DIRECTED BY THE ENGINEER

1



ADDITIONAL APPLICATIONS FOR CONNECTING NEW CONSTRUCTION SECTIONS TO WIDENING SECTIONS

TRAFFIC CONTROL LEGEND

- SIGN (SINGLE SIDED)
- SIGN (DOUBLE SIDED)
- FLAGGER
- CONE
- CHANNELIZER
- BARRICADE
- CHANGEABLE MESSAGE BOARD
- ARROW BOARD
- WORK AREA
- TRAFFIC FLOW

TAPER LENGTHS AND SPACING OF CHANNELIZING DEVICES					
PERMANENT POSTED SPEED MPH	MINIMUM LANE TAPER LENGTH (T2) BASED ON 12' LANE	MINIMUM SHOULDER TAPER LENGTH (T1) BASED ON 10' SHOULDER	BUFFER LENGTH FT. (B)	MAXIMUM CHANNELIZER SPACING	
				THROUGH TAPER	THROUGH WORK AREA
0-35	100 FT	35'	250'	25'	40'
40-45	100 FT	35'	360'	25'	80'
50-55	100 FT	35'	495'	25'	80'

SIGN SPACING FOR ADVANCE SIGN SERIES		
PERMANENT POSTED SPEED MPH	UNDIVIDED HIGHWAYS (S)	DIVIDED HIGHWAYS (S)
0-35	200 FT	200 FT
40-45	350 FT	500 FT
50-55	500 FT	1000 FT

TRAFFIC CONTROL SHEETS
SHEET 13 OF 21

STATE OF MISSOURI
JEFFREY R. RENSING
NUMBER PE-2006012376
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED 8/26/2025

ROUTE	STATE
47	MO
DISTRICT	SHEET NO.
NE	182

COUNTY LINCOLN

JOB NO. JNE0003

CONTRACT ID. .

PROJECT NO. .

BRIDGE NO. .

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

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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

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618.345.2200

Belleville
1 South Church, Suite 200
Belleville, IL 62220
618.416.4888

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MISSOURI DESIGN FIRM PE-001166

W020-1

(2)

W020-4

(7)

W020-7a

(8)

W03-4

(11)

G020-2

(26)

G020-5aP

(54)

G020-4a

(58)

SHALL BE USED ON ALL INTERSECTIONS.

* THE SMALLER 18" X 12" SIGN 58 IS USED ON ALL OTHER NON-STATE ROUTES (CITY STREETS, COUNTY ROADS, ETC.)

24"X18"

(60)

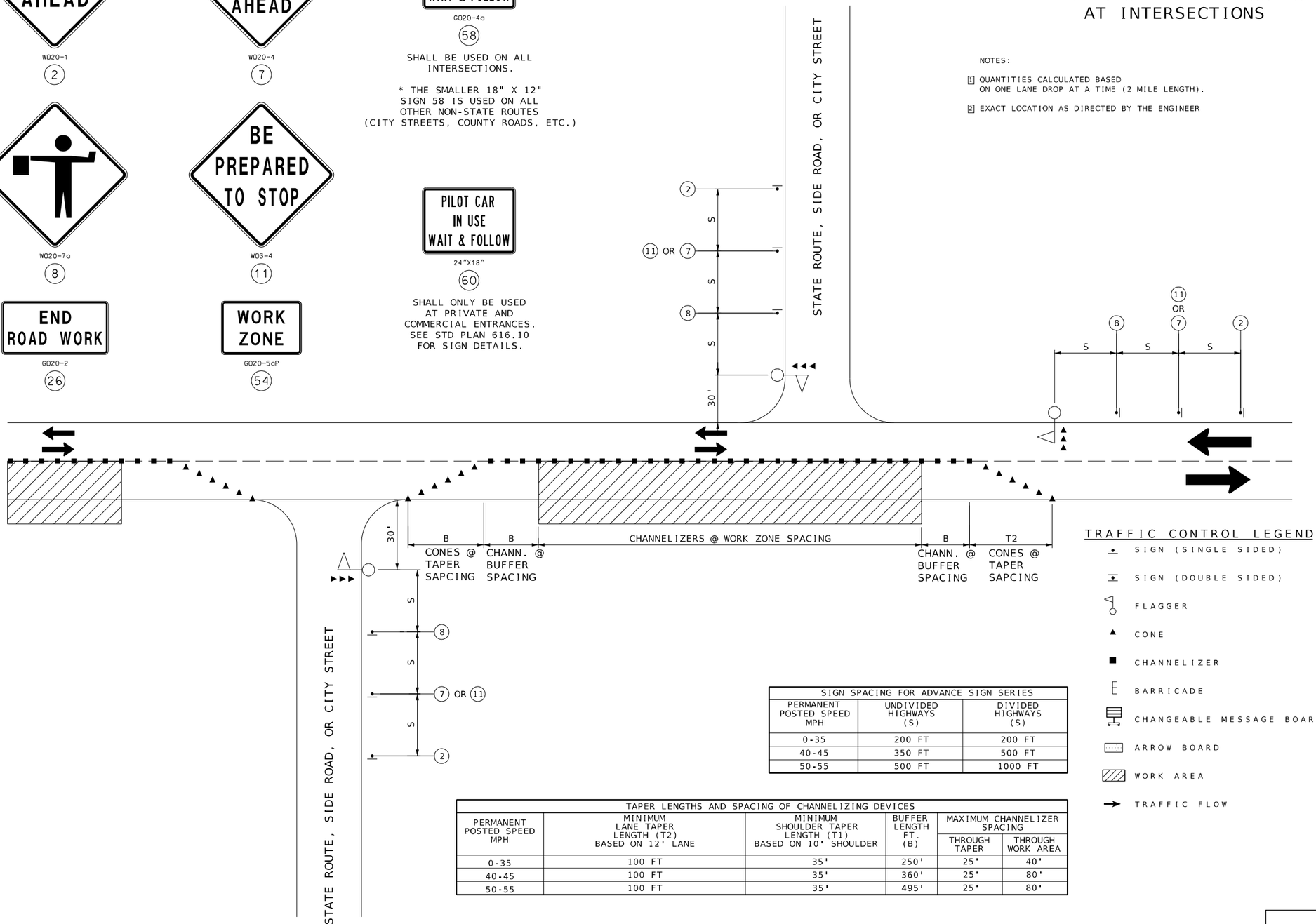
SHALL ONLY BE USED AT PRIVATE AND COMMERCIAL ENTRANCES, SEE STD PLAN 616.10 FOR SIGN DETAILS.

TRAFFIC CONTROL:
TYPICAL APPLICATION
LANE DROP WITH FLAGGERS AT INTERSECTIONS

NOTES:

[1] QUANTITIES CALCULATED BASED ON ONE LANE DROP AT A TIME (2 MILE LENGTH).

[2] EXACT LOCATION AS DIRECTED BY THE ENGINEER



SIGN SPACING FOR ADVANCE SIGN SERIES		
PERMANENT POSTED SPEED MPH	UNDIVIDED HIGHWAYS (S)	DIVIDED HIGHWAYS (S)
0-35	200 FT	200 FT
40-45	350 FT	500 FT
50-55	500 FT	1000 FT

TAPER LENGTHS AND SPACING OF CHANNELIZING DEVICES					
PERMANENT POSTED SPEED MPH	MINIMUM LANE TAPER LENGTH (T2) BASED ON 12' LANE	MINIMUM SHOULDER TAPER LENGTH (T1) BASED ON 10' SHOULDER	BUFFER LENGTH FT. (B)	MAXIMUM CHANNELIZER SPACING	
				THROUGH TAPER	THROUGH WORK AREA
0-35	100 FT	35'	250'	25'	40'
40-45	100 FT	35'	360'	25'	80'
50-55	100 FT	35'	495'	25'	80'

TRAFFIC CONTROL LEGEND

- SIGN (SINGLE SIDED)
- SIGN (DOUBLE SIDED)
- FLAGGER
- CONE
- CHANNELIZER
- BARRICADE
- CHANGEABLE MESSAGE BOARD
- ARROW BOARD
- WORK AREA
- TRAFFIC FLOW

TRAFFIC CONTROL SHEETS
SHEET 14 OF 21

STATE OF MISSOURI
JEFFREY R. RENSING
NUMBER PE-2006012376
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

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

DATE PREPARED	
8/26/2025	
ROUTE	STATE
47	MO
DISTRICT	SHEET NO.
NE	183
COUNTY	
LINCOLN	
JOB NO.	
JNE0003	
CONTRACT ID.	
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PROJECT NO.	
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BRIDGE NO.	
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DESCRIPTION	DATE
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MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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

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636.493.0277

Belleville
1 South Church, Suite 200
Belleville, IL 62220
618.416.4666

www.oatesassociates.com

MISSOURI DESIGN FIRM PE-001166

WO20-1

2

GO20-4

53

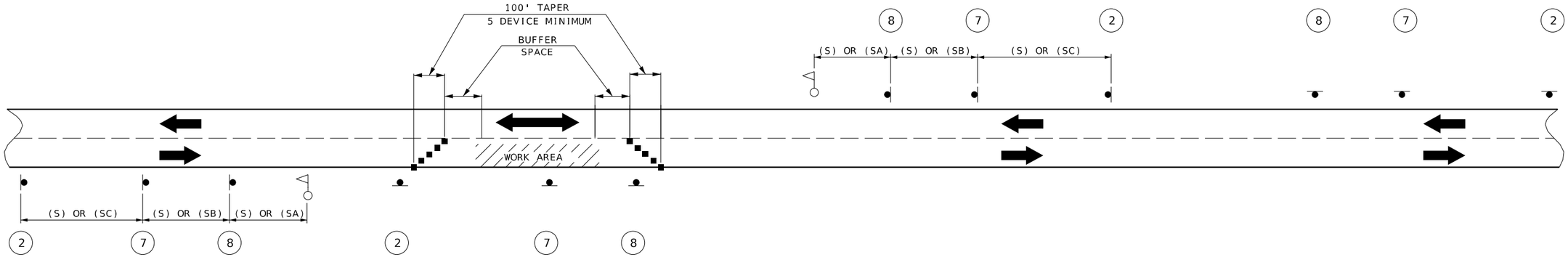
SIGN 53, "PILOT CAR FOLLOW ME" SHALL BE THE CONTRACTOR'S RESPONSIBILITY WHEN IN USE DURING OPERATION.

WO20-4

7

WO20-7a

8



SET 1

ACTIVE

SET 2

INACTIVE

SET 3

ACTIVE

SET 4

INACTIVE

SIGN SETS 1 AND 3 ARE ACTIVE AND (I.E., SIGNS FACE ONCOMING TRAFFIC).

SIGN SETS 2 AND 4 ARE INACTIVE (I.E., SIGNS DO NOT FACE EITHER DIRECTION OF TRAFFIC) WHEN THE RESURFACING OPERATION IS LOCATED BETWEEN SIGN SETS 1 AND 3.

WHEN SIGN SETS 2 AND 4 ARE ACTIVE, SIGN SETS 1 AND 3 BECOME INACTIVE AND ARE ADVANCED TO BECOME SETS 2 AND 4 WITH SIGN LEGENDS TURNED AWAY FROM BOTH DIRECTIONS OF TRAFFIC. WHEN THE RESURFACING OPERATION ADVANCES TO BETWEEN SIGN SETS 2 AND 4, SIGN SETS 2 AND 4 BECOME ACTIVE (I.E., NEW SIGN SETS 1 AND 3) AND SIGN SETS 1 AND 3 ADVANCED IN THE DIRECTION OF THE OPERATION (I.E., NEW SIGN SETS 2 AND 4).

■ - CHANNELIZERS

- FLAGGER

NOTES:

DAYLIGHT FLAGGING OPERATIONS ONLY.

CHANNELIZING DEVICES LOCATED DOWNSTREAM OF THE ONE-LANE, TWO-WAY TAPER ARE OPTIONAL. THESE DEVICES SHOULD BE ELIMINATED WHEN THEIR USE WILL REDUCE THE USABLE LANE WIDTH, INCLUDING ANY ACCEPTABLE SHOULDERS, TO LESS THAN 10' OR WILL SIGNIFICANTLY AFFECT THE RESURFACING OPERATION.

SPEED	SIGN SPACING (FT.) (1)	
PERMANENT POSTED (MPH)	NON-DIVIDED HIGHWAYS (S)	DIVIDED HIGHWAYS (S)
0-35	200	200
40-45	350	500
50-55	500	1000
60-70	1000	(SA)-1000 (SB)-1500 (SC)-2640

NOTES:

(1) SPACING BETWEEN SIGNS, BETWEEN LAST SIGN AND FLAGGER, BEGINNING OF TAPER OR SIGNED CONDITION.

SPACINGS MAY BE ADJUSTED AS NECESSARY TO MEET FIELD CONDITIONS.

PERMANENT POSTED SPEED LIMIT (MPH)	BUFFER SPACE LENGTH (FT)
0 - 35	280
40 - 45	400
50 - 55	560
60 - 70	840

TRAFFIC CONTROL SHEETS
SHEET 15 OF 21

STATE OF MISSOURI
JEFFREY R. RENSING
NUMBER PE-2006012376
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

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

DATE PREPARED 8/26/2025

ROUTE	STATE
47	MO
DISTRICT	SHEET NO.
NE	184

COUNTY: LINCOLN

JOB NO.: JNE0003

CONTRACT ID.: .

PROJECT NO.: .

BRIDGE NO.: .

DESCRIPTION	DATE
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MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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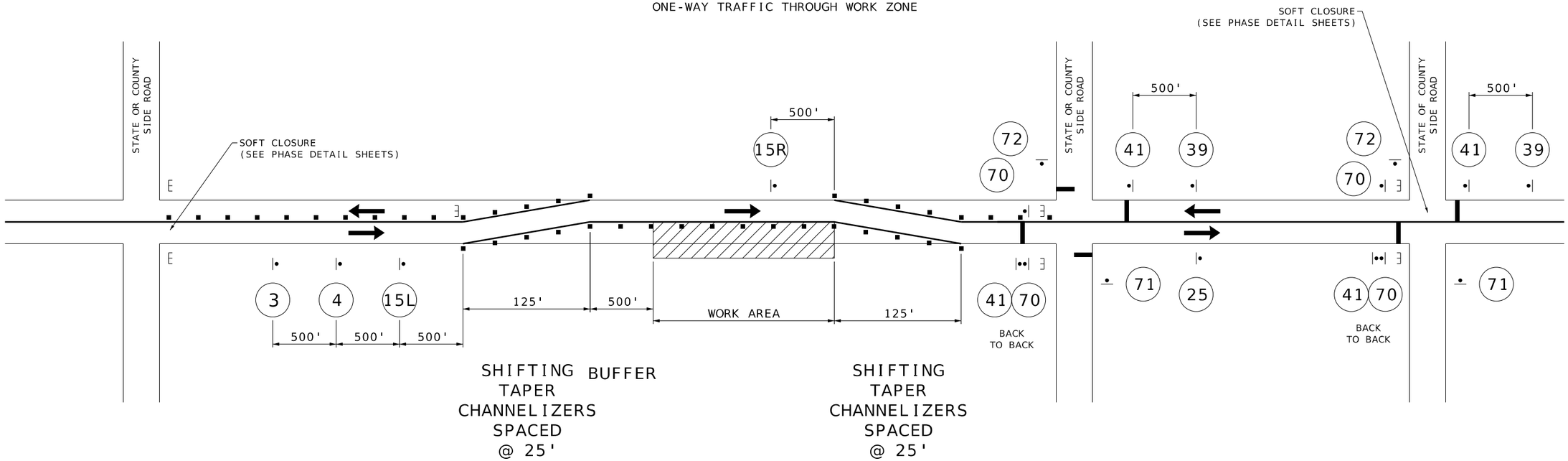
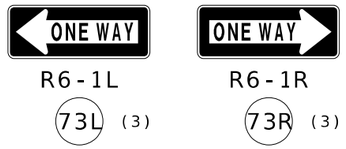
MISSOURI DESIGN FIRM PE-001166

OPTIONAL TRAFFIC CONTROL:
TYPICAL APPLICATION
ONE-WAY TRAFFIC THROUGH WORK ZONE





R6-1L
73L (3)

R6-1R
73R (3)

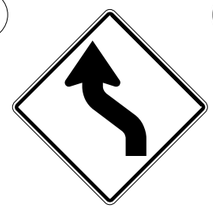
W03-5
3

W01-4R
15R

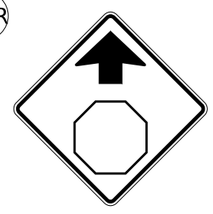
R3-2
71

R3-1
72

G020-5aP
R2-1
4



W01-4L
15L



W03-1
39

R1-1
41

R5-1
70

R2-1
25

GENERAL NOTES:

1. NO DIRECT PAY SHALL BE MADE FOR THE RELOCATION OF TEMPORARY TRAFFIC CONTROL SIGNS OR DEVICES.
2. SIGN AND DEVICE LOCATIONS SHALL BE FIELD VERIFIED AND APPROVED BY THE ENGINEER.
3. ANY EXISTING SIGNS THAT CONFLICT WITH THE TEMPORARY TRAFFIC CONTROL PLAN SHALL BE COMPLETELY COVERED OR REMOVED.
4. ALL RESIDENTIAL AND COMMERCIAL ENTRANCES LOCATED WITHIN THE ACTIVE WORK AREA SHALL HAVE A
4. ALL SIGNS ARE SPACED 500' APART UNLESS OTHERWISE NOTED.
5. ALL CHANNELIZERS ARE SPACED 80' APART UNLESS OTHERWISE NOTED.
6. ALL DISTANCES AND SPACING OF TRAFFIC CONTROL SIGNS AND DEVICES ARE MAY BE REVISED AS DIRECTED BY THE ENGINEER TO FIT FIELD CONDITIONS.

TRAFFIC CONTROL LEGEND

- SIGN (SINGLE SIDED)
- SIGN (DOUBLE SIDED)
- CHANNELIZER
- TYPE III MOVEABLE BARRICADE
- WORK AREA
- TRAFFIC FLOW

NOT TO SCALE

TRAFFIC CONTROL SHEETS
SHEET 16 OF 21

STATE OF MISSOURI
JEFFREY R. RENSING
NUMBER PE-2006012376
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED 8/26/2025

ROUTE	STATE
47	MO
DISTRICT	SHEET NO.
NE	185

COUNTY LINCOLN
JOB NO. JNE0003
CONTRACT ID. .
PROJECT NO. .
BRIDGE NO. .

DATE	DESCRIPTION
.	.

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

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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

OATES ASSOCIATES
MISSOURI DESIGN FIRM PE-001166

Collinsville
100 Lantzer Court, Suite 1
Collinsville, IL 62234
618.345.2300

Belleville
1 South Church, Suite 200
Belleville, IL 62220
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St. Louis
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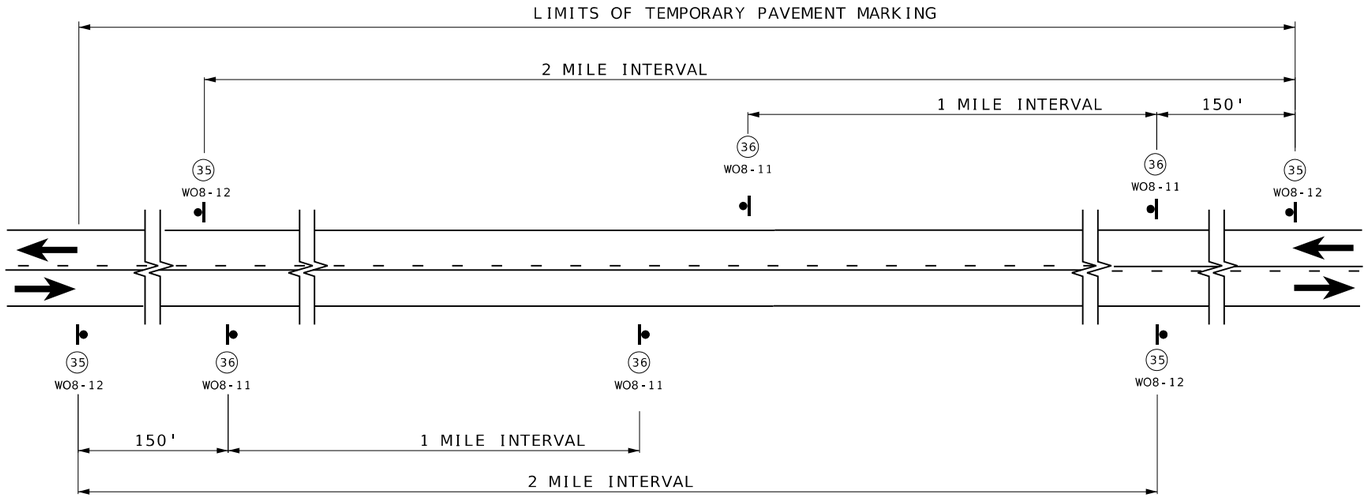
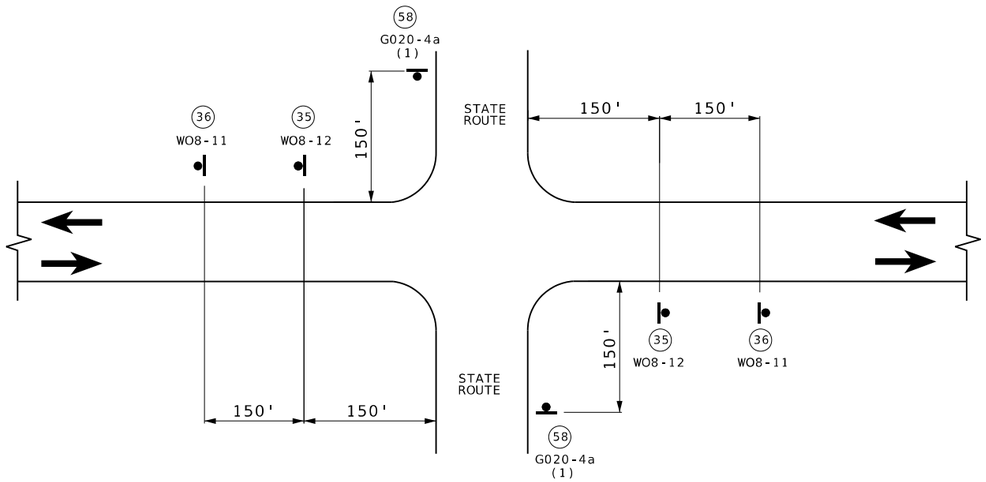


SIGN SPACING AND TEMPORARY STRIPING FOR MAINLINE



SIGN SPACING AT STATE ROUTE INTERSECTIONS
SHOWING TEMPORARY STRIPING FOR MAINLINE

(1) ADDITIONAL SIDEROADS MAY BE SIGNED AS APPROVED BY THE ENGINEER.

WO8-17

SHOULDER
DROP-OFF

WO8-17P

23

SIGN 23 INSTALLED
AS NEEDED
PER STD. 619.10.

PILOT CAR
IN USE
WAIT & FOLLOW

G020-4a

58

42X30

WO8-12

35

WO8-11

36

NOTES:

SIGN (35) AND TEMPORARY RAISED PAVEMENT MARKING (SEE STANDARD PLAN 620.10) INSTALLED WHERE CENTERLINE STRIPING HAS BEEN COVERED OR REMOVED. SIGNS ARE TO REMAIN IN PLACE UNTIL THE PERMANENT CENTERLINE PAVEMENT MARKINGS ARE IN PLACE. SIGNS SHALL BE COVERED OR REMOVED WHEN PAVEMENT CENTERLINE MARKING HAS BEEN INSTALLED.

SIGN (35) IS PLACED AT APPROXIMATELY TWO-MILE INTERVALS AND AT STATE ROUTE JUNCTIONS. WHEN THE INSTALLATION AT A JUNCTION IS WITHIN ONE-EIGHTH MILE OF THE NORMAL MAINLINE SIGN (35), THE LATTER MAY BE ELIMINATED.

ALL SIGNS SHALL BE POST MOUNTED AND IN ACCORDANCE WITH STANDARD PLAN 616.10 AND 903.03.

NOT TO SCALE

TRAFFIC CONTROL SHEETS
SHEET 17 OF 21

STATE OF MISSOURI
JEFFREY R. RENSING
NUMBER PE-2006012376
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

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DATE PREPARED 8/26/2025

ROUTE	STATE
47	MO
DISTRICT	SHEET NO.
NE	186

COUNTY: LINCOLN

JOB NO.: JNE0003

CONTRACT ID.:

PROJECT NO.:

BRIDGE NO.:

DESCRIPTION	DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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

OATES ASSOCIATES
MISSOURI DESIGN FIRM PE-001166

Collinsville
100 Lantzer Court, Suite 1
Collinsville IL 62234
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St. Louis
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Belleville
1 South Church, Suite 200
Belleville IL 62220
618.416.4688

St. Charles
820 South Main, Suite 309
St. Charles, MO 63301
636.493.6277

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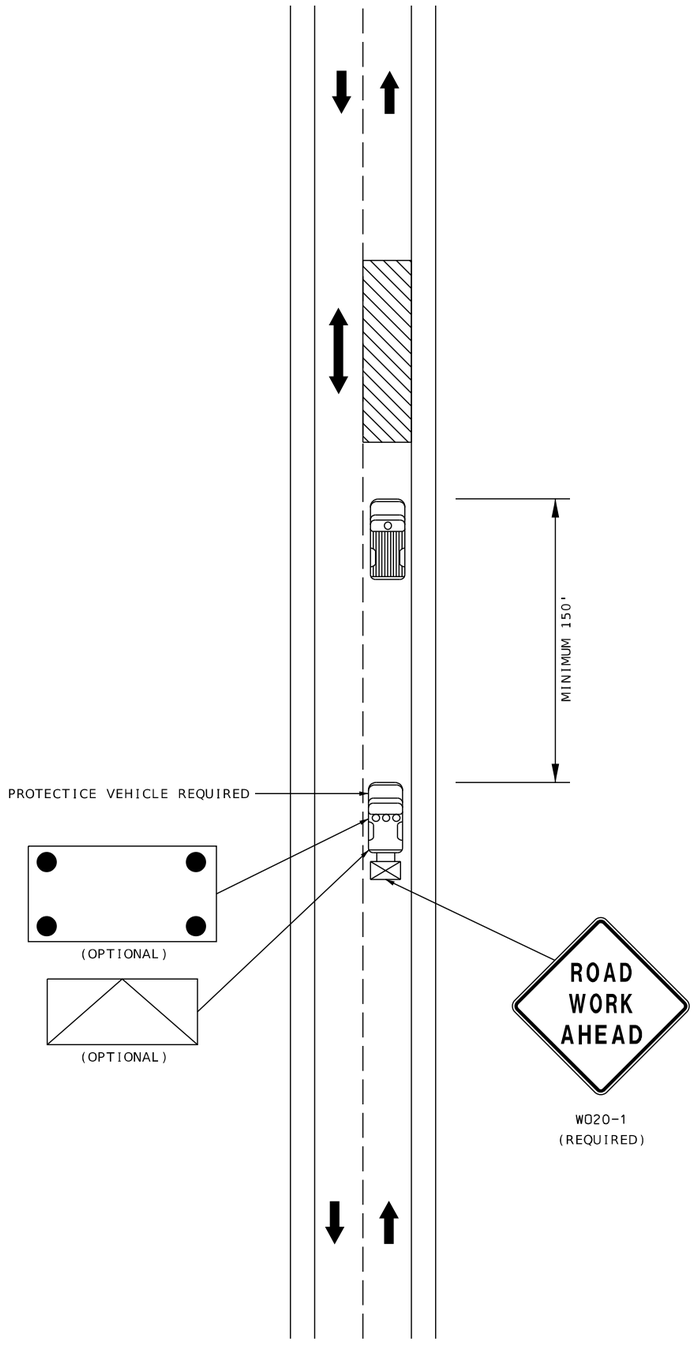
NOT TO SCALE

TRAFFIC CONTROL LEGEND

- WORK AREA
- PROTECTIVE VEHICLE
- WORK VEHICLE
- FLASHING ARROW PANEL
- TRUCK OR TRAILER MOUNTED ATTENUATOR (TMA)



MOBILE OPERATION
ON A TWO-LANE HIGHWAY

TRAFFIC CONTROL SHEETS
SHEET 18 OF 21

STATE OF MISSOURI
JEFFREY R. RENSING
NUMBER PE-2006012376
PROFESSIONAL ENGINEER

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DATE PREPARED 8/26/2025

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47	MO
DISTRICT	SHEET NO.
NE	187

COUNTY: LINCOLN
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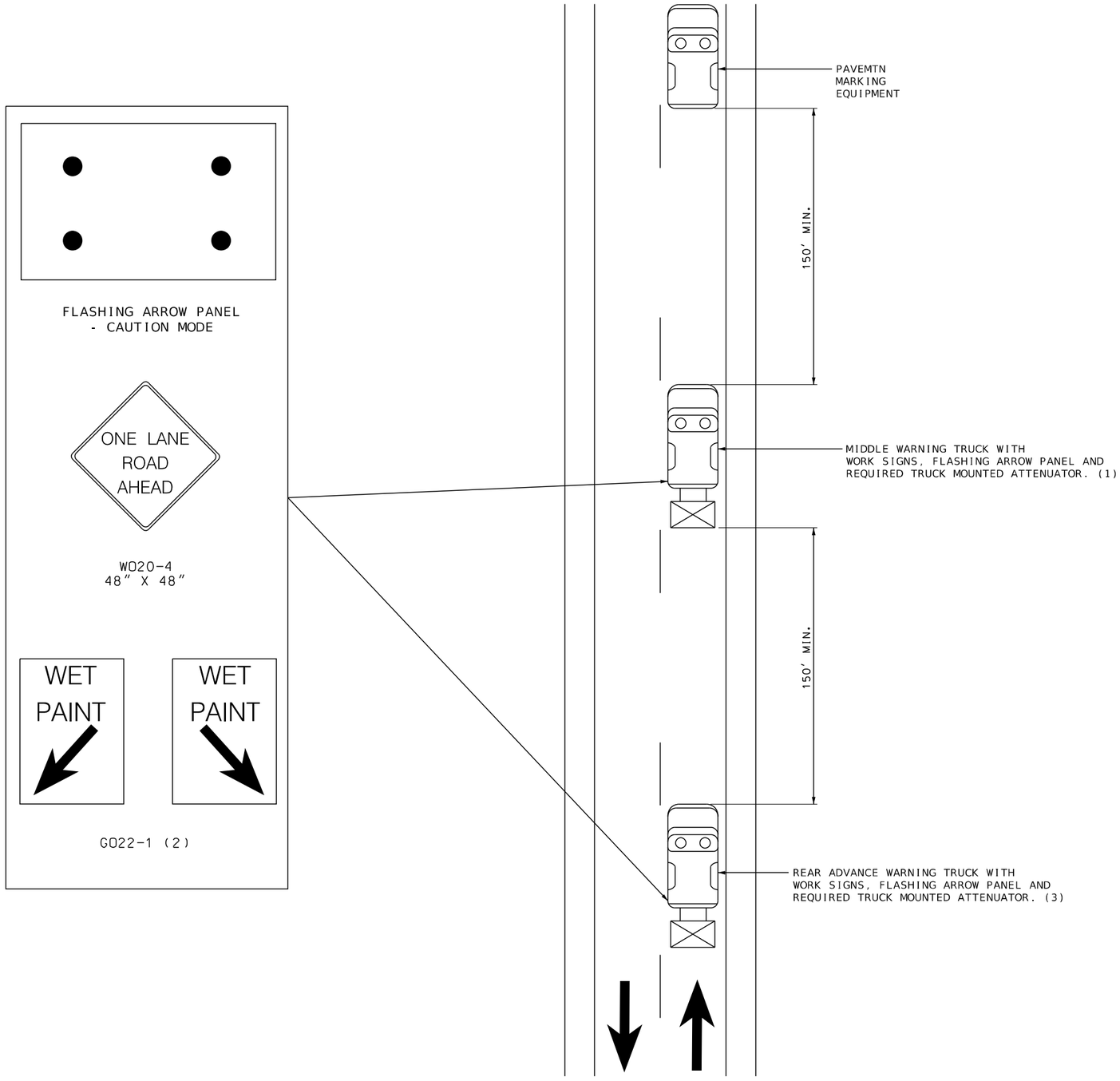

CENTERLINE/EDGELINE STRIPING ON TWO-LANE HIGHWAYS

NOTES:

UPON APPROVAL OF THE ENGINEER, THE CONTRACTOR MAY PROVIDE ADDITIONAL PROTECTIVE TRUCK EQUIPPED WITH PROPER WARNING DEVICES.

PROTECTIVE TRUCK AND WORK VEHICLES SHALL DISPLAY HIGH-INTENSITY ROTATING, FLASHING, OSCILLATING, OR STROBE LIGHTS.

FLASHING ARROW PANELS SHALL BE INCIDENTAL TO TRUCH MOUNTED ATTENUATORS, WHEREVER USED. NO ADDITIONAL PAYMENT WILL BE MADE.

(1) TRUCK IS OPTIONAL ON TWO-LANE UNDIVIDED HIGHWAYS IF SIGNING AND AND ARROW BOARD IS MOUNTED ON THE PAVEMENT MARKING EQUIPMENT.

(2) WET PAINT SIGNS ARE INSTALLED TO INDICATE THE SIDE IN WHICH THE PAVEMENT MARKING MATERIAL IS BEING APPLIED. AT THE CONTRACTOR'S OPTION, A FRONT FACING WET PAINT SIGN MAY BE INSTALLED ON THE LEFT SIDE OF THE PAVEMENT MARKING EQUIPMENT.

(3) REAR ADVANCE WARNING TRUCK IS POSITIONED AT THE NO TRACK POINT OF THE PAVEMENT MARKING MATERIAL, OR VERTICAL OR HORIZONTAL CURVES THAT RESTRICT SIGHT DISTANCE, OR SPACING SHOWN.

STATE OF MISSOURI
JEFFREY R. RENSING
NUMBER PE-2006012376
PROFESSIONAL ENGINEER

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47	MO
DISTRICT	SHEET NO.
NE	188

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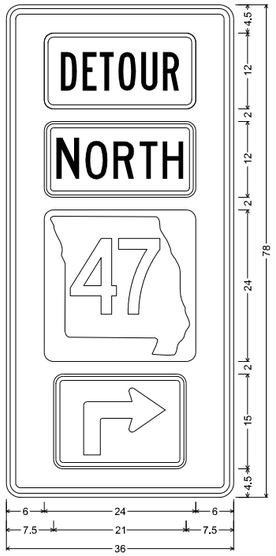
MISSOURI DESIGN FIRM PE-001166

H:\P\222102 - Route 47 Pavement, Safety, and Shoulder Improvements\CADD\Microstation\CADD Drawings\JNE0003 - sht-traffic control.dgn 10:19:44 AM 8/26/2025



MO4-11 SHF-FLAT SHEET FLUORESCENT;
2.250" Radius, 0.875" Border, 0.625" Indent, Black on, Orange;
Table of letter and object lefts

	6.000
	6.000
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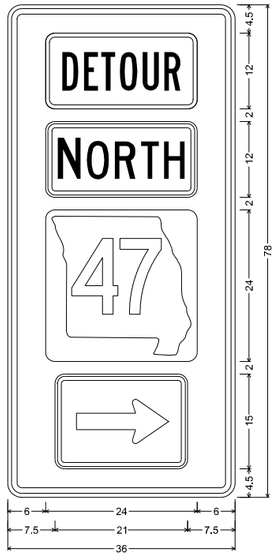
	7.500



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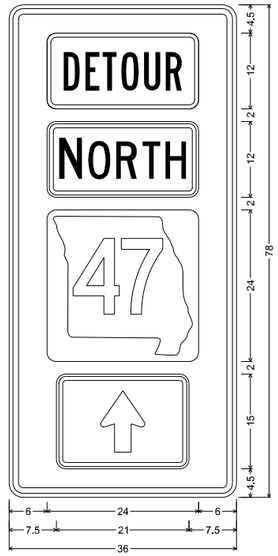

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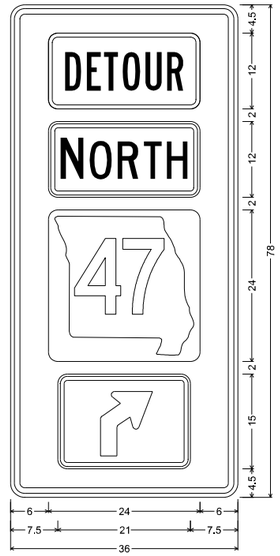

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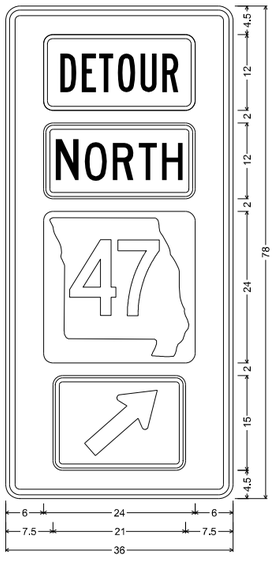

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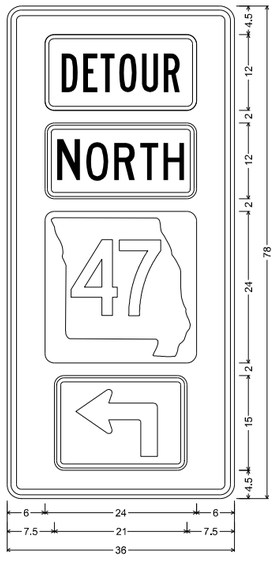

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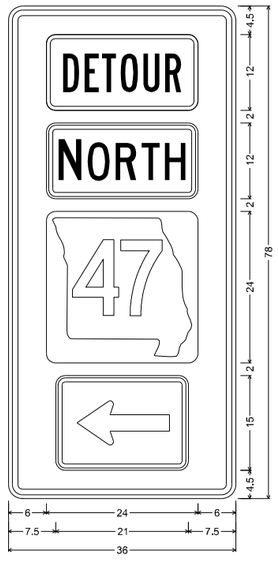

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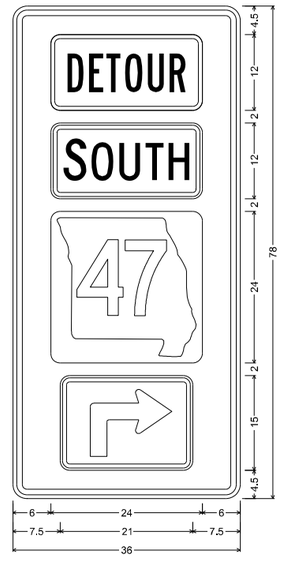

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	6.000
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	6.000
	7.500

TRAFFIC CONTROL SHEETS
SHEET 20 OF 21

STATE OF MISSOURI
JEFFREY R. RENSING
NUMBER PE-2006012376
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED
8/26/2025

ROUTE	STATE
47	MO
DISTRICT	SHEET NO.
NE	189

COUNTY
LINCOLN

JOB NO.
JNE0003

CONTRACT ID.
.

PROJECT NO.
.

BRIDGE NO.
.

DESCRIPTION	DATE
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MoDOT

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JEFFERSON CITY, MO 65102
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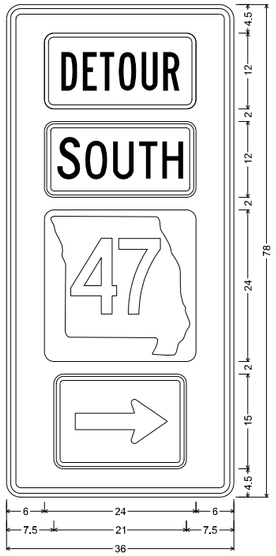
MISSOURI DESIGN FIRM PE-001166



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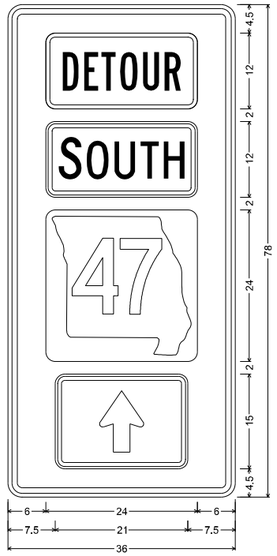

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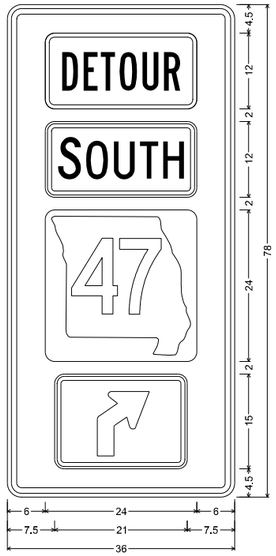

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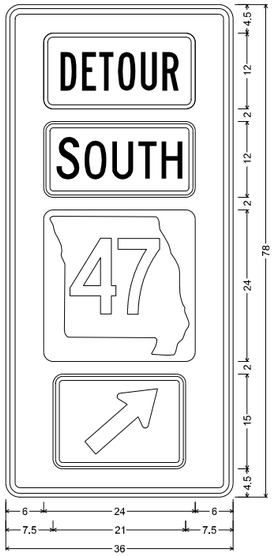

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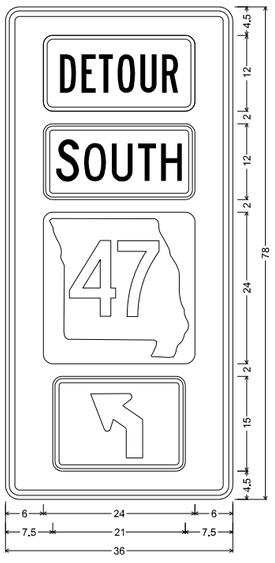

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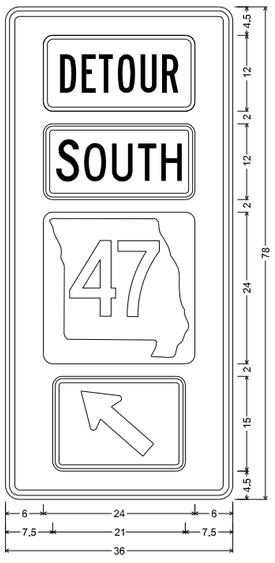

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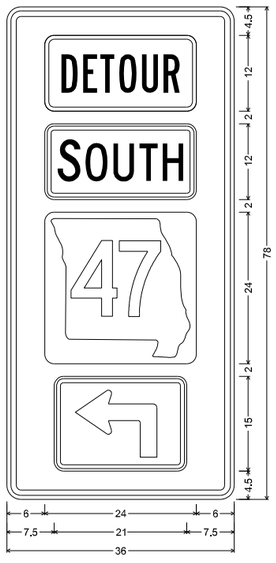

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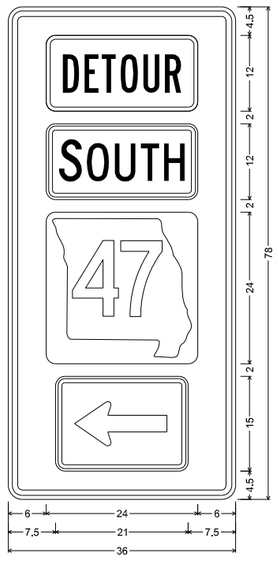

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TRAFFIC CONTROL SHEETS
SHEET 21 OF 21

STATE OF MISSOURI
JEFFREY R. RENSING
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PROFESSIONAL ENGINEER

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DISTRICT	SHEET NO.
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DESCRIPTION	DATE
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MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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

OATES ASSOCIATES

St. Louis
720 Olive, Suite 700
St. Louis, MO 63101
314.588.8881

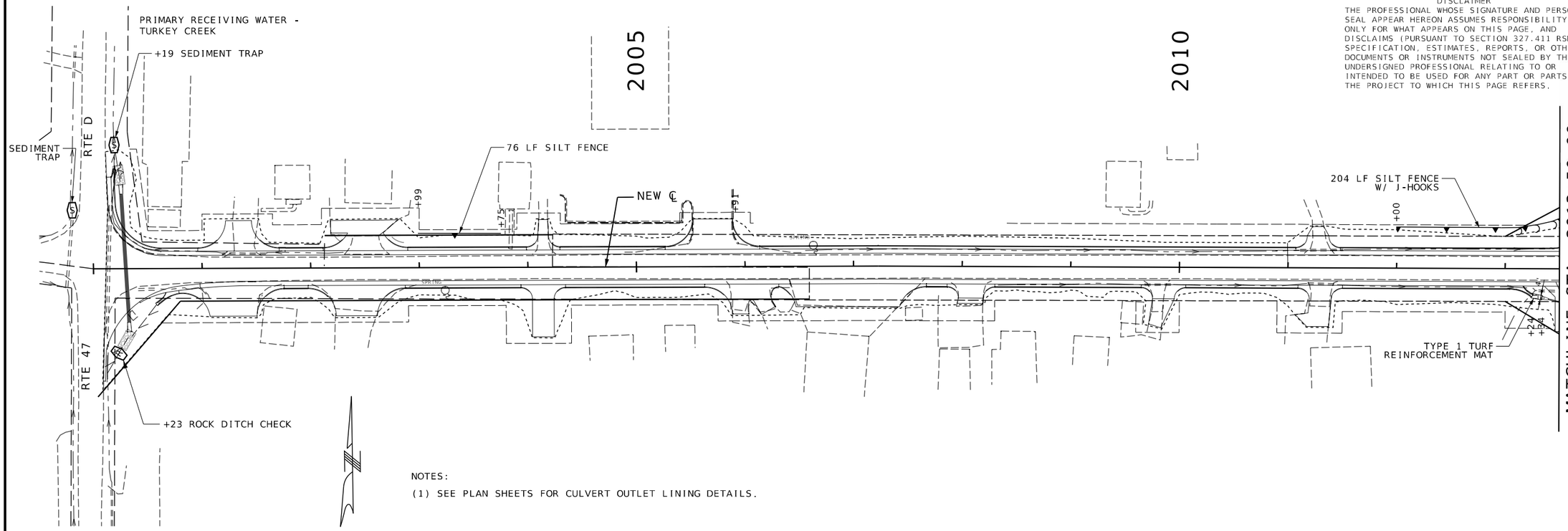
St. Charles
820 South Main, Suite 309
St. Charles, MO 63301
636.493.6277

Collinsville
100 Lanter Court, Suite 1
Collinsville, IL 62234
618.345.2300

Belleville
1 South Church, Suite 200
Belleville, IL 62220
618.416.4868

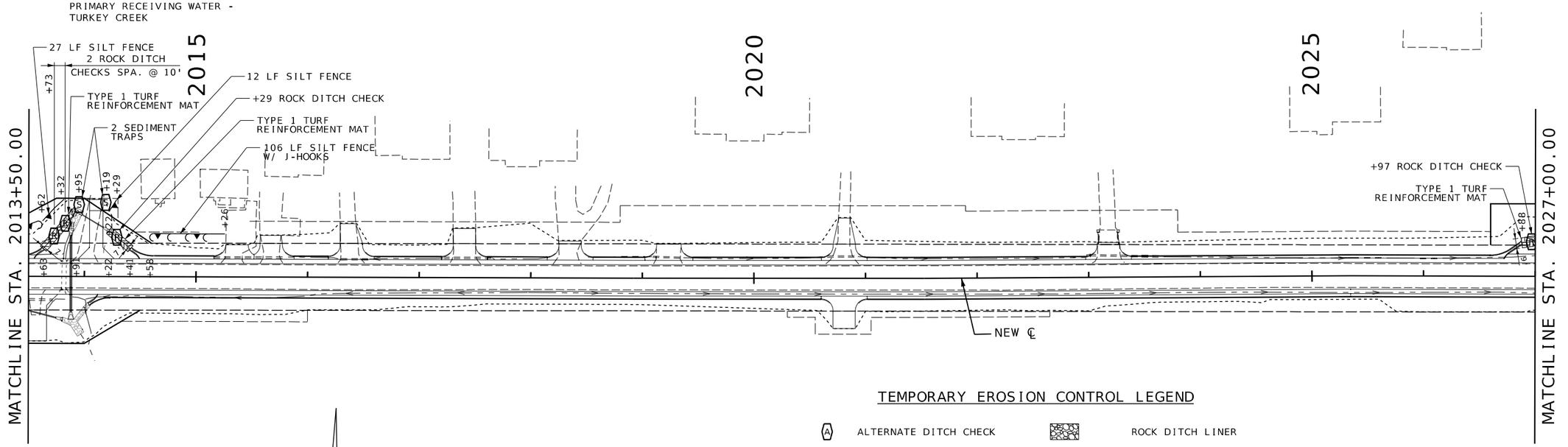
www.oatesassociates.com

MISSOURI DESIGN FIRM PE-001166



NOTES:

(1) SEE PLAN SHEETS FOR CULVERT OUTLET LINING DETAILS.



SCALE

0 50 100 150

TEMPORARY EROSION CONTROL LEGEND

A	ALTERNATE DITCH CHECK		ROCK DITCH LINER
R	ROCK DITCH CHECK		TURF REINFORCEMENT MAT
S	SEDIMENT TRAP		SILT FENCE

EROSION CONTROL SHEET
SHEET 1 OF 14

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STATE OF MISSOURI
MARGARET ANN BRUNS
NUMBER PE-2010000798
PROFESSIONAL ENGINEER
7/30/2025 4:14:54 PM
Margaret Ann Bruns - Civil
MO PE-2010000798

DATE PREPARED 7/30/2025

ROUTE	STATE
47	MO
DISTRICT	SHEET NO.
NE	191

COUNTY: LINCOLN
JOB NO.: JNE0003
CONTRACT ID.:
PROJECT NO.:
BRIDGE NO.:

DATE	DESCRIPTION
.	.

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

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

EFK•Moen
Civil Engineering Design
13523 Barrett Parkway Dr
Suite 250
St. Louis, MO 63021
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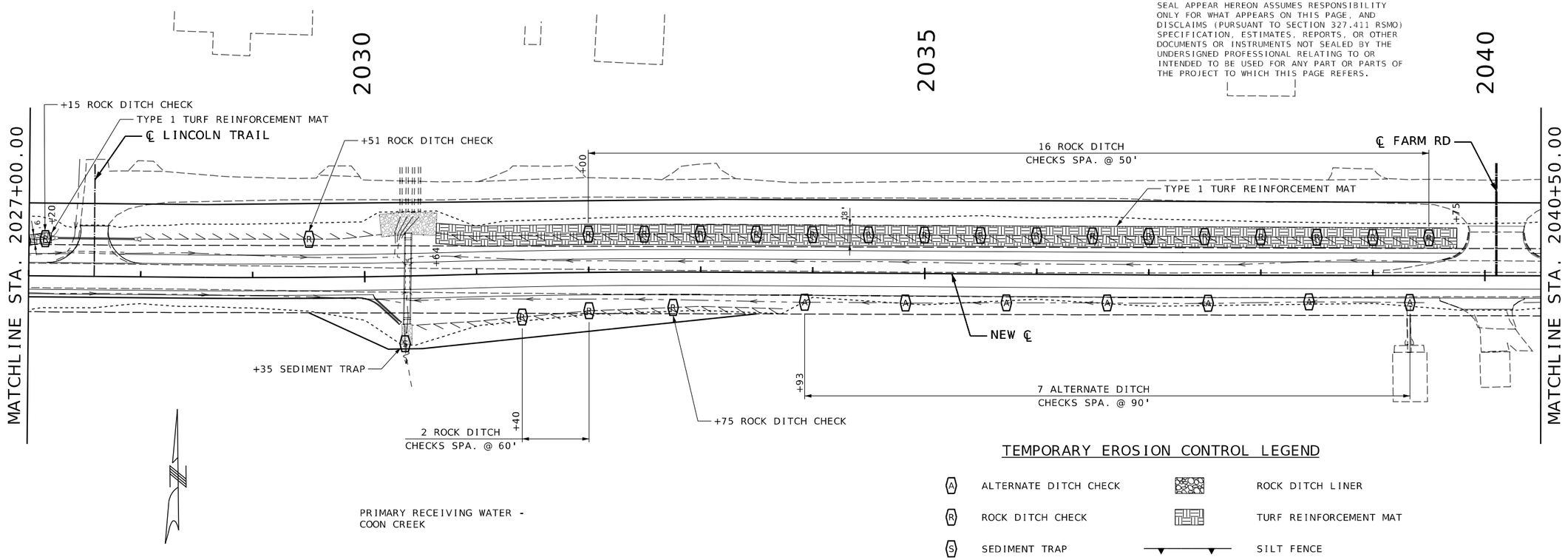
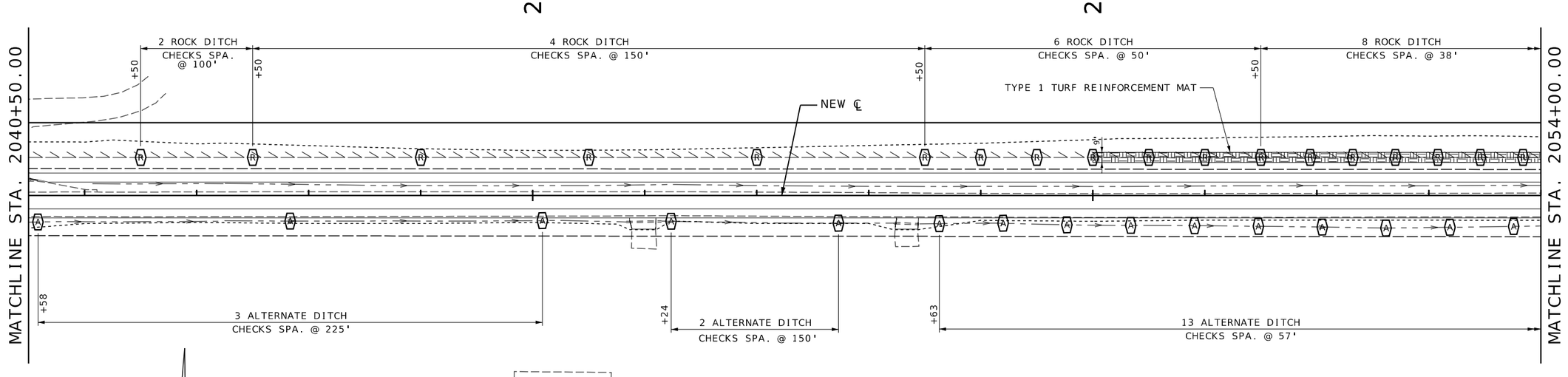


PRIMARY RECEIVING WATER -
COON CREEK

TEMPORARY EROSION CONTROL LEGEND

A	ALTERNATE DITCH CHECK		ROCK DITCH LINER
R	ROCK DITCH CHECK		TURF REINFORCEMENT MAT
S	SEDIMENT TRAP		SILT FENCE



SCALE
0 50 100 150

EROSION CONTROL SHEET
SHEET 2 OF 14

STATE OF MISSOURI
PROFESSIONAL ENGINEER
MARGARET ANN BRUNS
NUMBER PE-2010000798
7/30/2025 4:14:54 PM
Margaret Ann Bruns - Civil
MO PE-2010000798

DATE PREPARED
7/30/2025

ROUTE	STATE
47	MO
DISTRICT	SHEET NO.
NE	192

COUNTY
LINCOLN
JOB NO.
JNE0003
CONTRACT ID.
PROJECT NO.
BRIDGE NO.

DESCRIPTION	DATE

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

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
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EFK•Moen
Civil Engineering Design
13523 Barrett Parkway Dr
Suite 250
St Louis, MO 63021
Phone 314-394-3100
Fax 314-394-3199
Missouri Certificate of Authority: 001578

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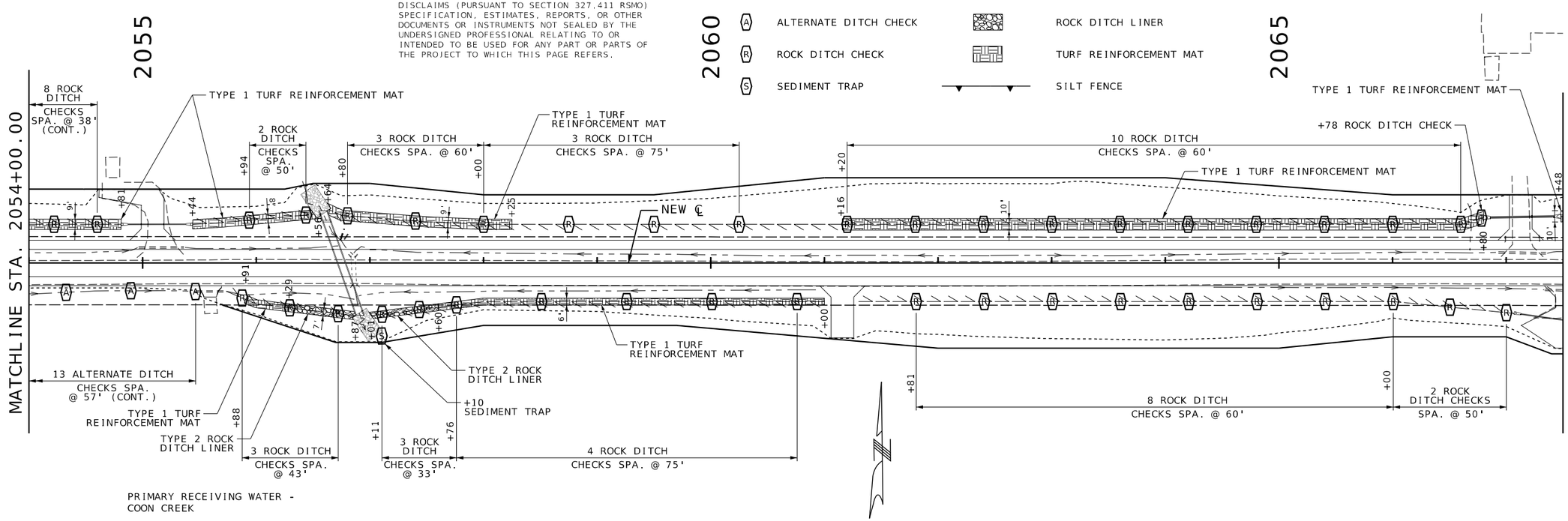
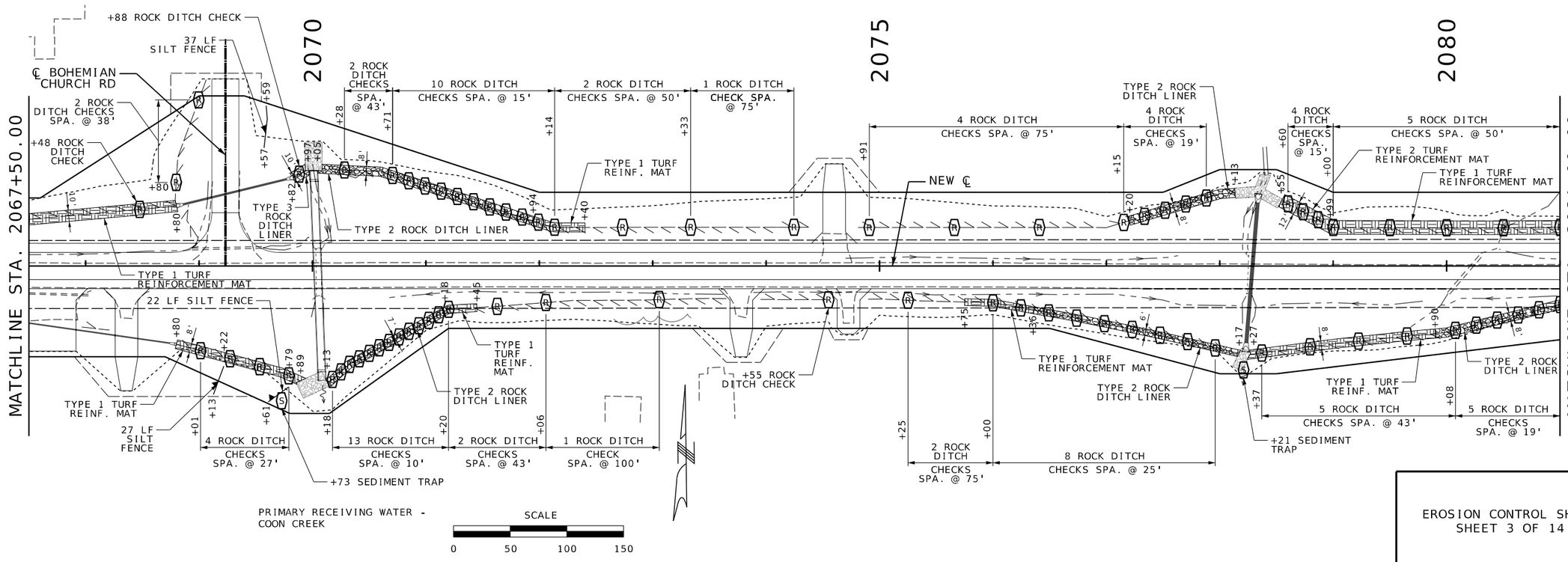
TEMPORARY EROSION CONTROL LEGEND

- (A) ALTERNATE DITCH CHECK
- (R) ROCK DITCH CHECK
- (S) SEDIMENT TRAP
- ROCK DITCH LINER
- TURF REINFORCEMENT MAT
- SILT FENCE





EROSION CONTROL SHEET
SHEET 3 OF 14

STATE OF MISSOURI
PROFESSIONAL ENGINEER
MARGARET ANN BRUNS
NUMBER PE-2010000798
7/30/2025 4:14:54 PM
Margaret Ann Bruns - Civil
MO PE:2010000798

DATE PREPARED 7/30/2025
ROUTE 47 | STATE MO
DISTRICT NE | SHEET NO. 193
COUNTY LINCOLN
JOB NO. JNE0003
CONTRACT ID. .
PROJECT NO. .
BRIDGE NO. .

DESCRIPTION	DATE
.	.

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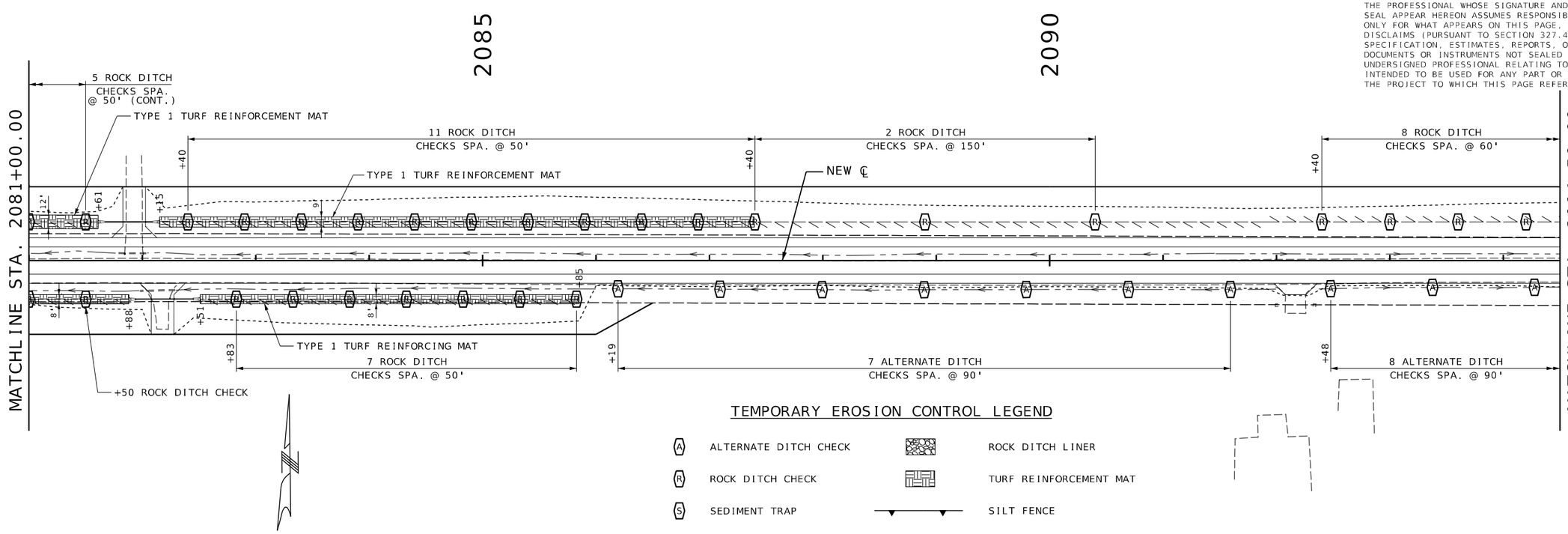
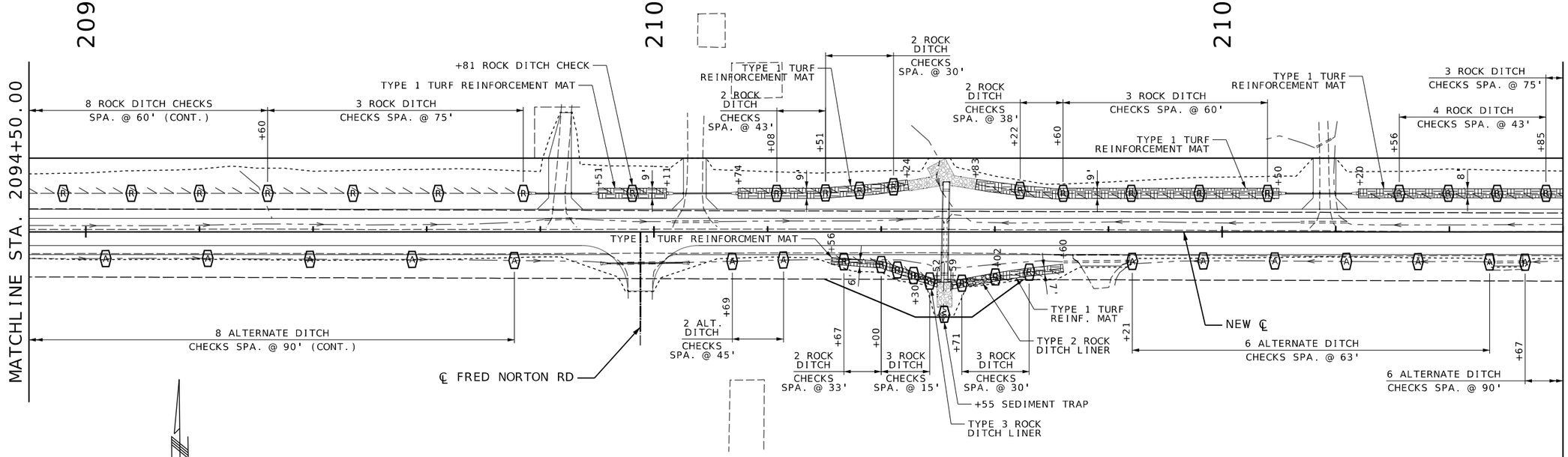


TEMPORARY EROSION CONTROL LEGEND

A	ALTERNATE DITCH CHECK		ROCK DITCH LINER
R	ROCK DITCH CHECK		TURF REINFORCEMENT MAT
S	SEDIMENT TRAP		SILT FENCE



PRIMARY RECEIVING WATER -
COON CREEK

SCALE
0 50 100 150

EROSION CONTROL SHEET
SHEET 4 OF 14

STATE OF MISSOURI
PROFESSIONAL ENGINEER
MARGARET ANN BRUNS
NUMBER PE-2010000798
7/30/2025 4:14:54 PM
Margaret Ann Bruns - Civil
MO PE:2010000798

DATE PREPARED	
7/30/2025	
ROUTE	STATE
47	MO
DISTRICT	SHEET NO.
NE	194
COUNTY	
LINCOLN	
JOB NO.	
JNE0003	
CONTRACT ID.	
.	
PROJECT NO.	
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BRIDGE NO.	
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DESCRIPTION	DATE

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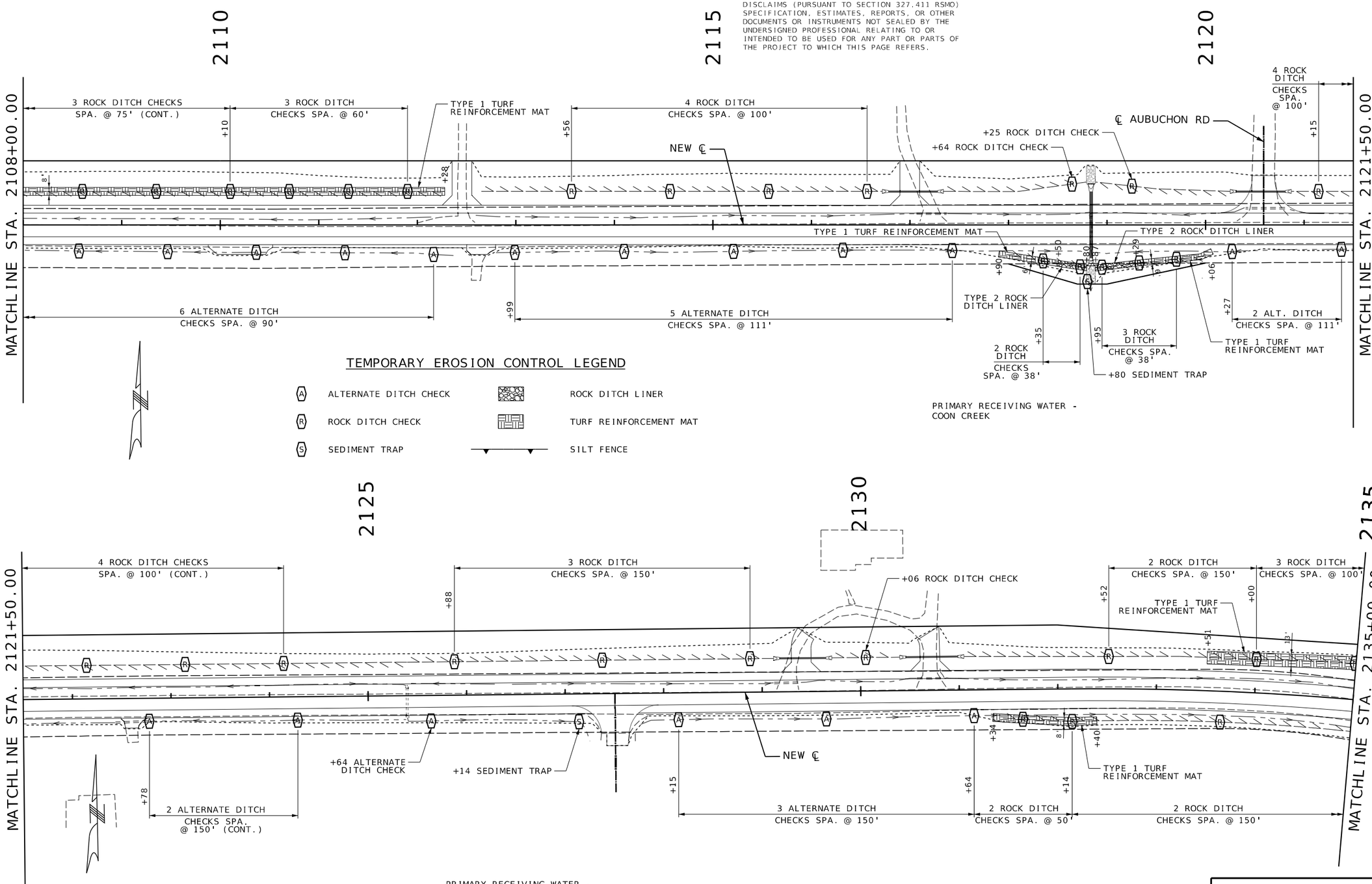

TEMPORARY EROSION CONTROL LEGEND

- (A) ALTERNATE DITCH CHECK
- (R) ROCK DITCH CHECK
- (S) SEDIMENT TRAP
- ROCK DITCH LINER
- TURF REINFORCEMENT MAT
- SILT FENCE

SCALE
0 50 100 150

EROSION CONTROL SHEET
SHEET 5 OF 14

STATE OF MISSOURI
PROFESSIONAL ENGINEER
MARGARET ANN BRUNS
NUMBER PE-2010000798
7/30/2025 4:14:54 PM
Margaret Ann Bruns - Civil
MO PE-2010000798

DATE PREPARED	
7/30/2025	
ROUTE	STATE
47	MO
DISTRICT	SHEET NO.
NE	195
COUNTY	
LINCOLN	
JOB NO.	
JNE0003	
CONTRACT ID.	
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PROJECT NO.	
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BRIDGE NO.	
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DESCRIPTION	DATE
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MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

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Civil Engineering Design
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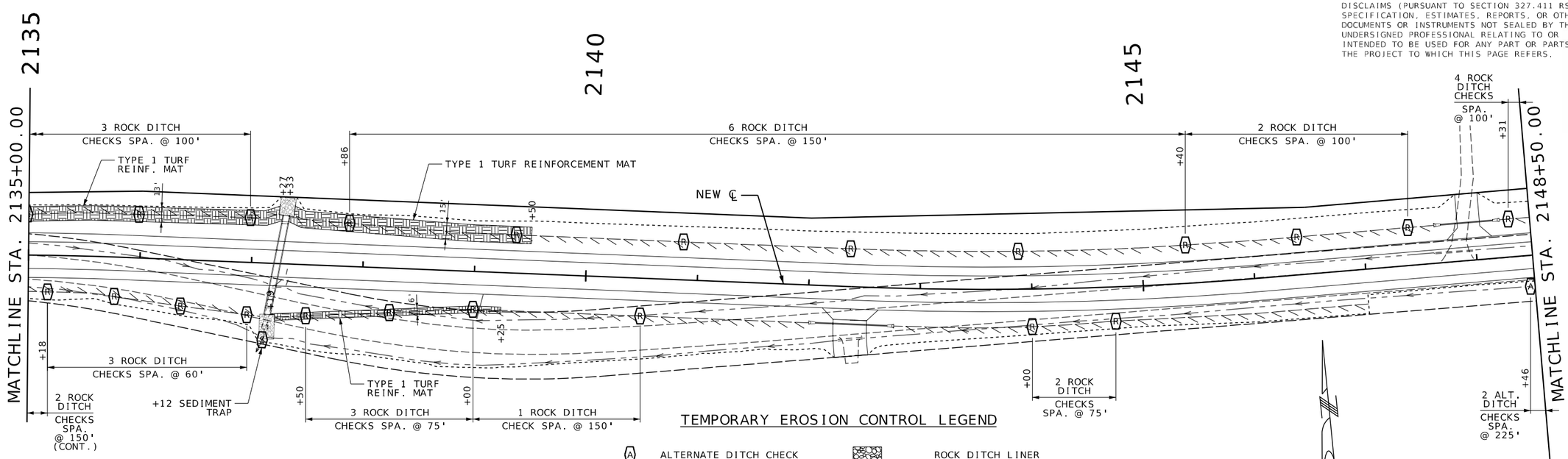
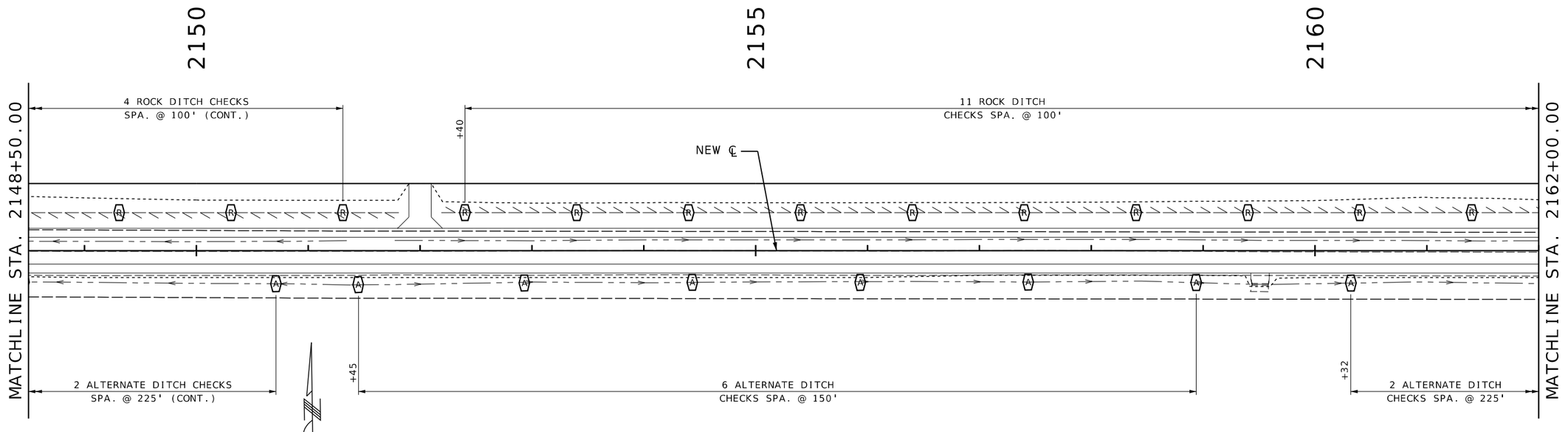


TEMPORARY EROSION CONTROL LEGEND

- (A) ALTERNATE DITCH CHECK
- (R) ROCK DITCH CHECK
- (S) SEDIMENT TRAP
- ROCK DITCH LINER
- TURF REINFORCEMENT MAT
- SILT FENCE



SCALE
0 50 100 150

EROSION CONTROL SHEET
SHEET 6 OF 14

STATE OF MISSOURI
PROFESSIONAL ENGINEER
MARGARET ANN BRUNS
NUMBER PE-2010000798
7/30/2025 4:14:54 PM
Margaret Ann Bruns - Civil
MO PE:2010000798

DATE PREPARED 7/30/2025
ROUTE 47 | STATE MO
DISTRICT NE | SHEET NO. 196
COUNTY LINCOLN
JOB NO. JNE0003
CONTRACT ID. .
PROJECT NO. .
BRIDGE NO. .

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

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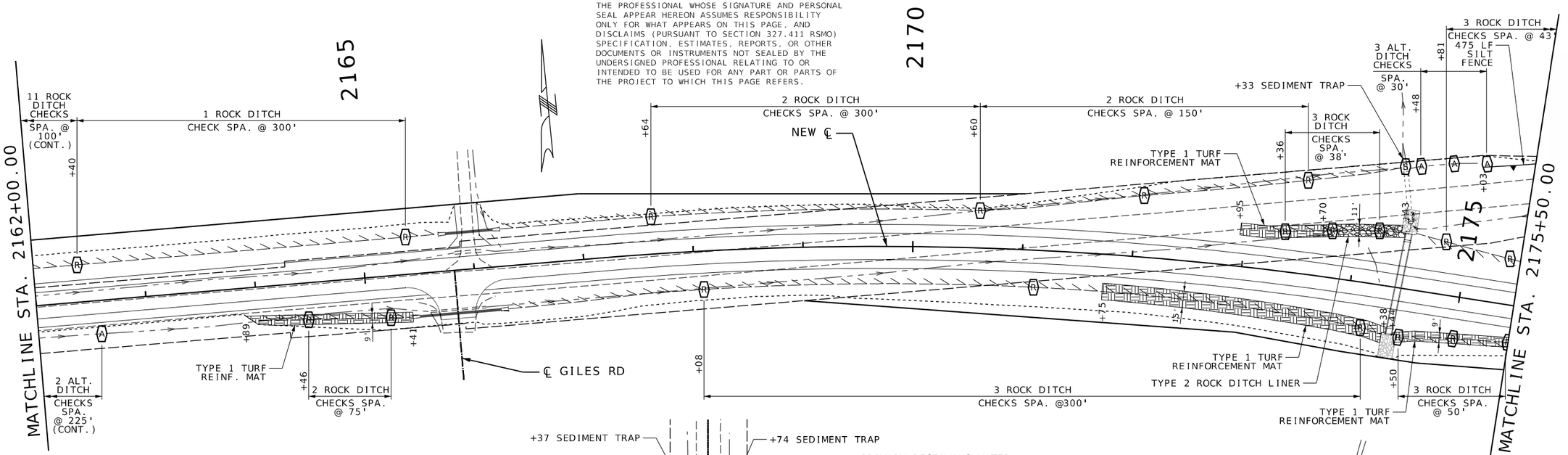
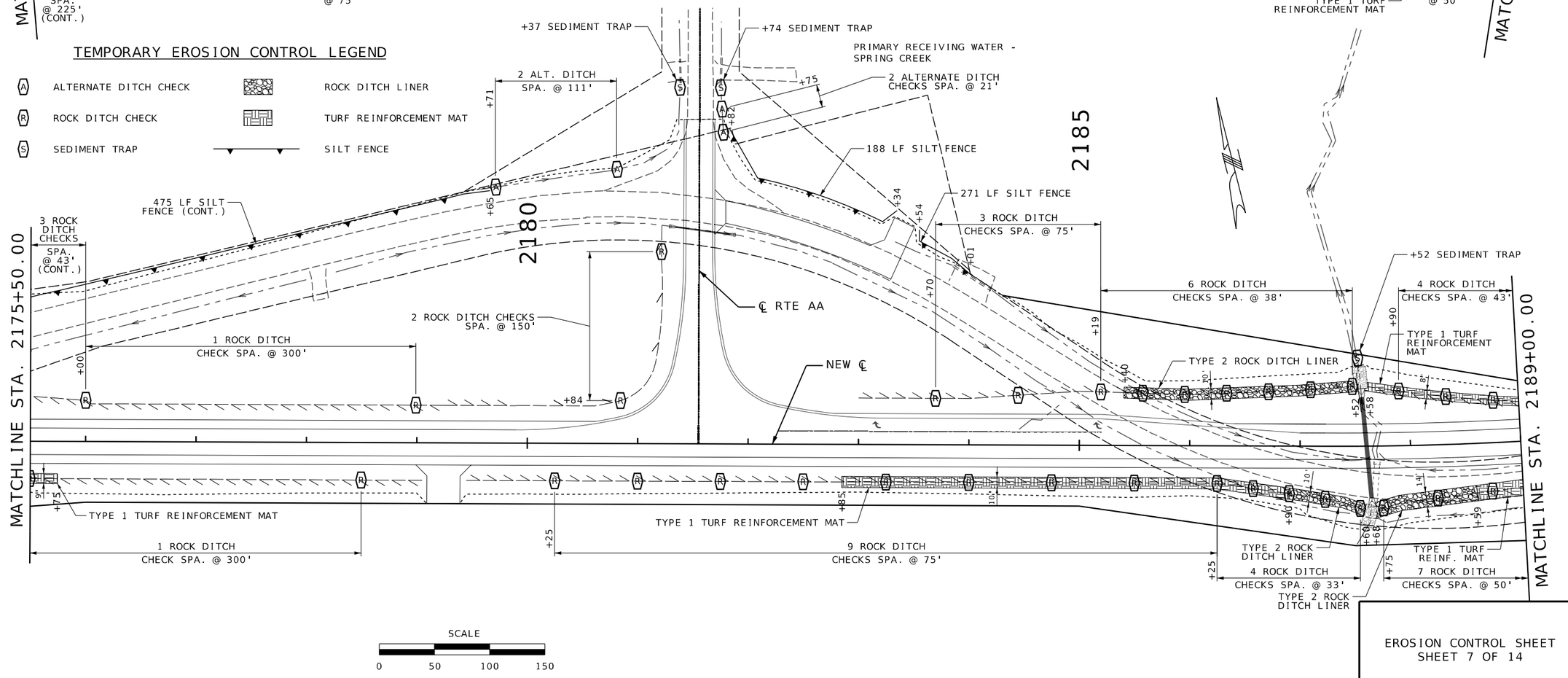


TEMPORARY EROSION CONTROL LEGEND

- (A) ALTERNATE DITCH CHECK
- (R) ROCK DITCH CHECK
- (S) SEDIMENT TRAP
- ROCK DITCH LINER
- TURF REINFORCEMENT MAT
- SILT FENCE



SCALE
0 50 100 150

EROSION CONTROL SHEET
SHEET 7 OF 14

STATE OF MISSOURI
PROFESSIONAL ENGINEER
MARGARET ANN BRUNS
NUMBER PE-2010000798
7/30/2025 4:14:54 PM
Margaret Ann Bruns - Civil
MO PE-2010000798

DATE PREPARED 7/30/2025
ROUTE 47 | STATE MO
DISTRICT NE | SHEET NO. 197
COUNTY LINCOLN
JOB NO. JNE0003
CONTRACT ID.
PROJECT NO.
BRIDGE NO.

DATE	DESCRIPTION

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JEFFERSON CITY, MO 65102
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St Louis, MO 63021
Phone 314-394-3100
Fax 314-394-3199
Missouri Certificate of Authority: 001578

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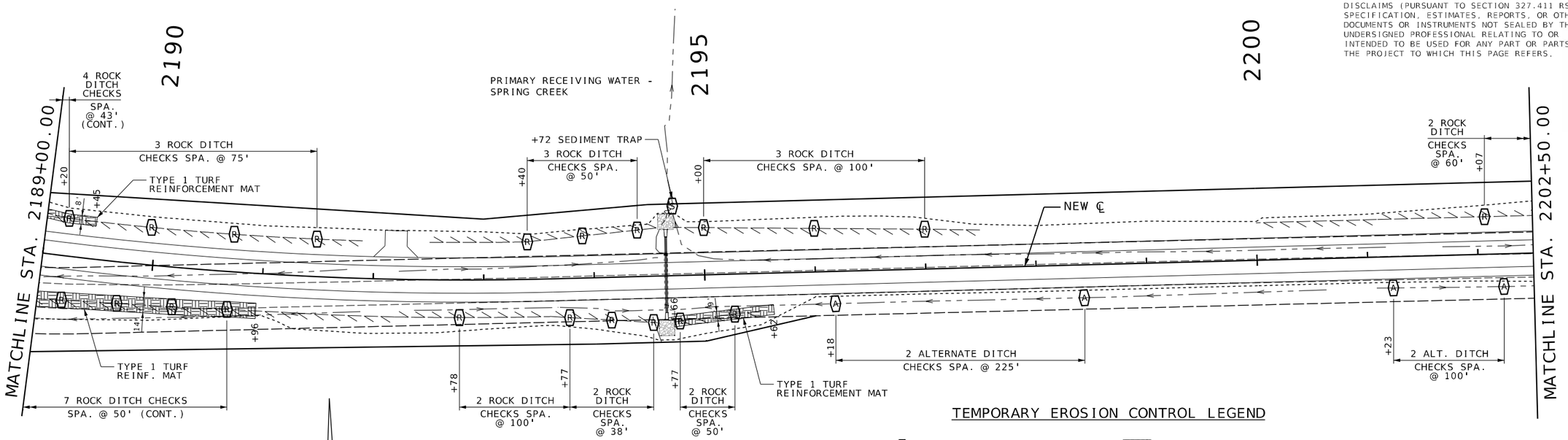

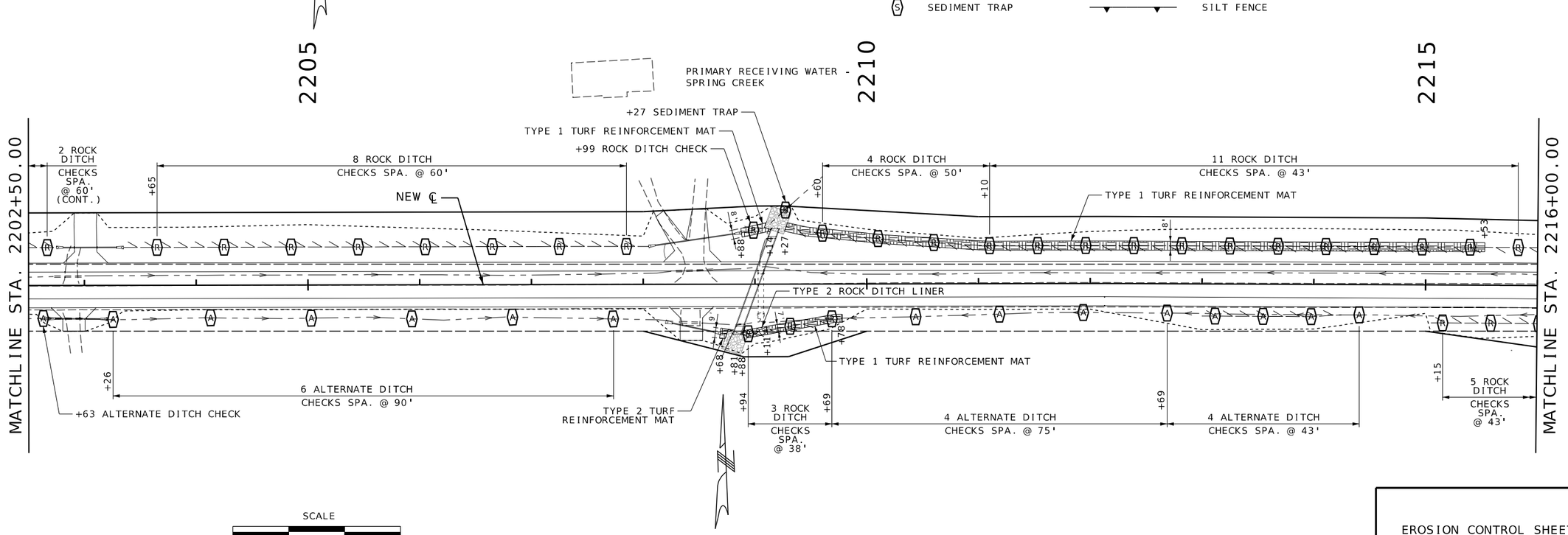

TEMPORARY EROSION CONTROL LEGEND

(A) ALTERNATE DITCH CHECK	ROCK DITCH LINER
(R) ROCK DITCH CHECK	TURF REINFORCEMENT MAT
(S) SEDIMENT TRAP	SILT FENCE

SCALE
0 50 100 150

EROSION CONTROL SHEET
SHEET 8 OF 14

STATE OF MISSOURI
PROFESSIONAL ENGINEER
MARGARET ANN BRUNS
NUMBER PE-2010000798
7/30/2025 4:14:54 PM
Margaret Ann Bruns - Civil
MO PE:2010000798

DATE PREPARED 7/30/2025
ROUTE 47 | STATE MO
DISTRICT NE | SHEET NO. 198
COUNTY LINCOLN
JOB NO. JNE0003
CONTRACT ID. .
PROJECT NO. .
BRIDGE NO. .

DESCRIPTION	DATE
.	.

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

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PRIMARY RECEIVING WATER - SPRING CREEK

2220

2225

MATCHLINE STA. 2216+00.00

11 ROCK DITCH CHECKS SPA. @ 60'

+20

5 ROCK DITCH CHECKS SPA. @ 43' (CONT.)

+79

10 ROCK DITCH CHECKS SPA. @ 60'

NEW ℄

+20 ROCK DITCH CHECK

TYPE 1 TURF REINF. MAT

+62

2 ROCK DITCH CHECKS SPA. @ 300'

+61

2 ROCK DITCH CHECKS SPA. @ 33'

TYPE 3 ROCK DITCH LINER

+61

4 ROCK DITCH CHECKS SPA. @ 60'

TYPE 2 ROCK DITCH LINER

TYPE 1 TURF REINF. MAT

+95 SEDIMENT TRAP

+76 ROCK DITCH CHECK

4 ROCK DITCH CHECKS SPA. @ 21'

℄ BENNINGTON DR

TYPE 3 ROCK DITCH LINER

TYPE 1 TURF REINF. MAT

MATCHLINE STA. 2229+50.00

2230

2235

2240

4 ROCK DITCH CHECK SPA. @ 21' (CONT.)

3 ALTERNATE DITCH CHECKS SPA. @ 75'

6 ALTERNATE DITCH CHECKS SPA. @ 75'

2 ALTERNATE DITCH CHECKS SPA. @ 225'

6 ALTERNATE DITCH CHECKS SPA. @ 111'

TYPE 1 TURF REINFORCEMENT MAT

4 ROCK DITCH CHECKS SPA. @ 60' (CONT.)

TYPE 1 TURF REINFORCEMENT MAT

7 ROCK DITCH CHECKS SPA. @ 50'

NEW ℄

3 ROCK DITCH CHECKS SPA. @ 75'

1 ROCK DITCH CHECK SPA. @ 150'

+09 ROCK DITCH CHECK

+38 SEDIMENT TRAP

+62 SEDIMENT TRAP

℄ LINNS MILL RD

MATCHLINE STA. 2243+00.00

PRIMARY RECEIVING WATER - MEISTER BRANCH

SCALE
0 50 100 150

EROSION CONTROL SHEET
SHEET 9 OF 14

STATE OF MISSOURI
PROFESSIONAL ENGINEER
MARGARET ANN BRUNS
NUMBER PE-2010000798

7/30/2025 4:14:54 PM
Margaret Ann Bruns - Civil
MO PE-2010000798

DATE PREPARED
7/30/2025

ROUTE	STATE
47	MO
DISTRICT	SHEET NO.
NE	199

COUNTY
LINCOLN

JOB NO.
JNE0003

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DESCRIPTION	DATE

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MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
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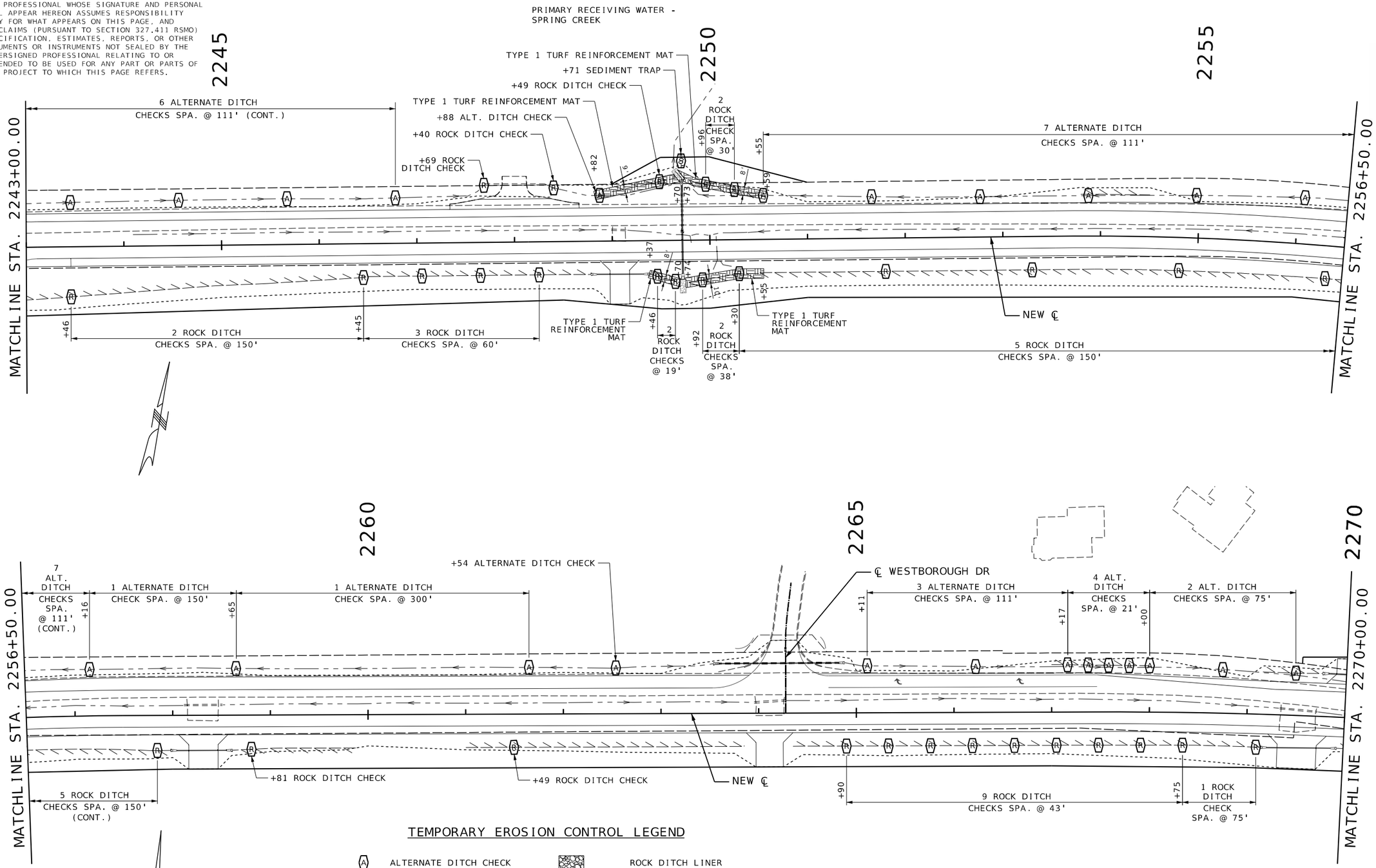

TEMPORARY EROSION CONTROL LEGEND

- (A) ALTERNATE DITCH CHECK
- (R) ROCK DITCH CHECK
- (S) SEDIMENT TRAP
- ROCK DITCH LINER
- TURF REINFORCEMENT MAT
- SILT FENCE

SCALE
0 50 100 150

EROSION CONTROL SHEET
SHEET 10 OF 14

STATE OF MISSOURI
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NUMBER PE-2010000798
7/30/2025 4:14:54 PM
Margaret Ann Bruns - Civil
MO PE-2010000798

DATE PREPARED 7/30/2025
ROUTE 47 | STATE MO
DISTRICT NE | SHEET NO. 200
COUNTY LINCOLN
JOB NO. JNE0003
CONTRACT ID. .
PROJECT NO. .
BRIDGE NO. .

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

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

EFK•Moen
Civil Engineering Design
13523 Barrett Parkway Dr
Suite 250
St Louis, MO 63021
Phone 314-394-3100
Fax 314-394-3199
Missouri Certificate of Authority: 001578

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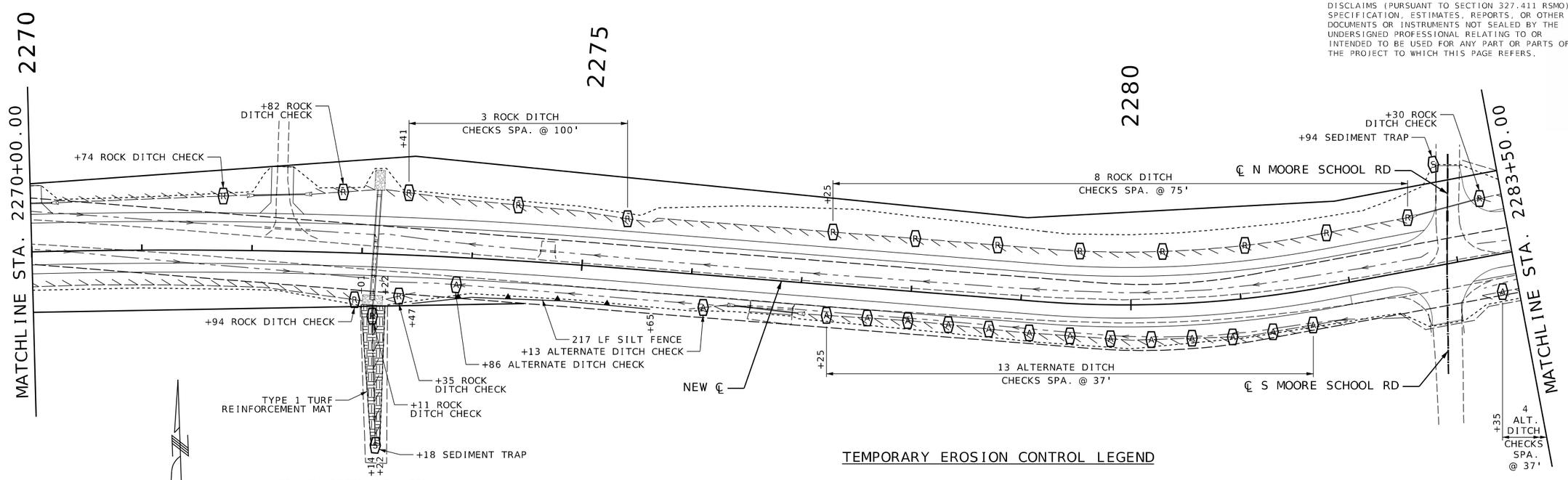

TEMPORARY EROSION CONTROL LEGEND

(A)	ALTERNATE DITCH CHECK		ROCK DITCH LINER
(R)	ROCK DITCH CHECK		TURF REINFORCEMENT MAT
(S)	SEDIMENT TRAP		SILT FENCE

STATE OF MISSOURI
MARGARET ANN BRUNS
NUMBER PE-2010000798
PROFESSIONAL ENGINEER
7/30/2025 4:14:54 PM
Margaret Ann Bruns - Civil
MO PE-2010000798

DATE PREPARED
7/30/2025

ROUTE	STATE
47	MO
DISTRICT	SHEET NO.
NE	201

COUNTY
LINCOLN

JOB NO.
JNE0003

CONTRACT ID.
.

PROJECT NO.
.

BRIDGE NO.
.

DATE	DESCRIPTION
.	.

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MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
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EROSION CONTROL SHEET
SHEET 11 OF 14

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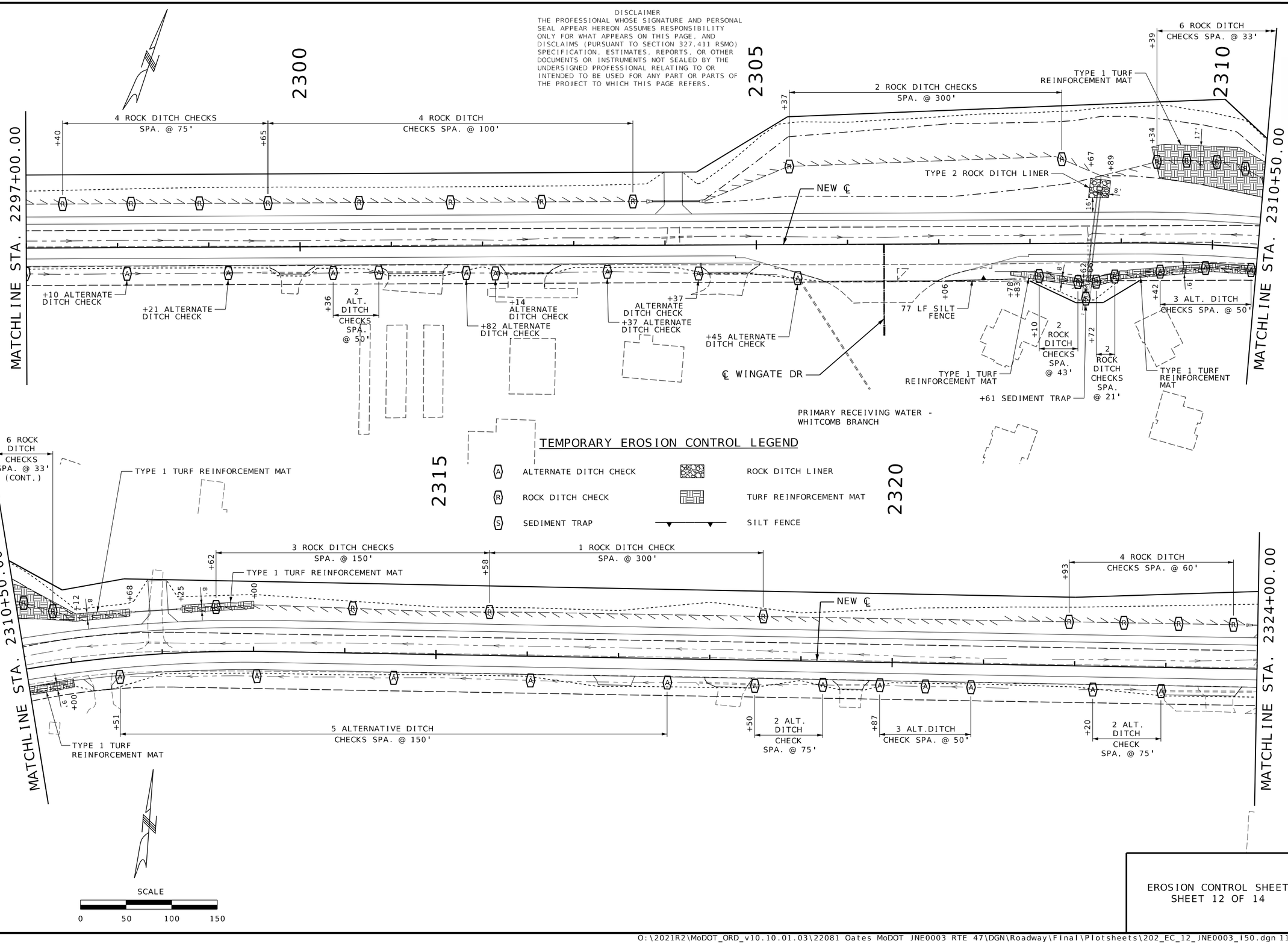


TEMPORARY EROSION CONTROL LEGEND

A	ALTERNATE DITCH CHECK		ROCK DITCH LINER
R	ROCK DITCH CHECK		TURF REINFORCEMENT MAT
S	SEDIMENT TRAP		SILT FENCE

EROSION CONTROL SHEET
SHEET 12 OF 14

STATE OF MISSOURI
MARGARET ANN BRUNS
NUMBER PE-2010000798
PROFESSIONAL ENGINEER
7/30/2025 4:14:54 PM
Margaret Ann Bruns - Civil
MO PE-2010000798

DATE PREPARED 7/30/2025
ROUTE 47 | STATE MO
DISTRICT NE | SHEET NO. 202
COUNTY LINCOLN
JOB NO. JNE0003
CONTRACT ID. .
PROJECT NO. .
BRIDGE NO. .

DESCRIPTION	DATE
.	.

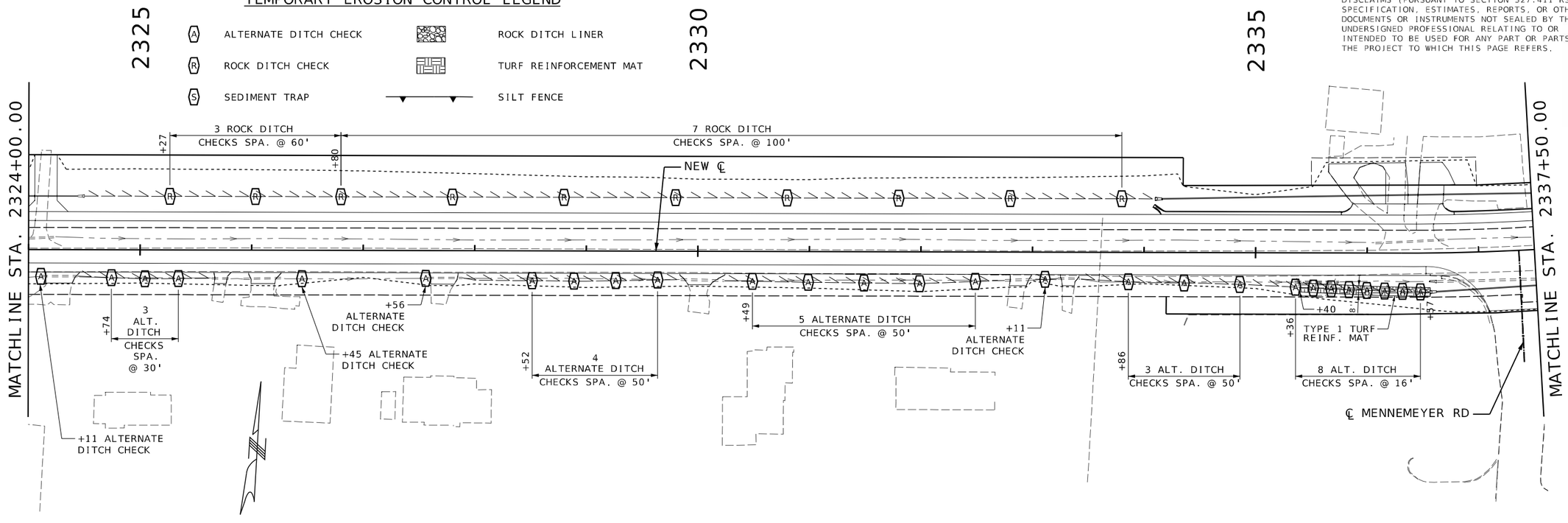
IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

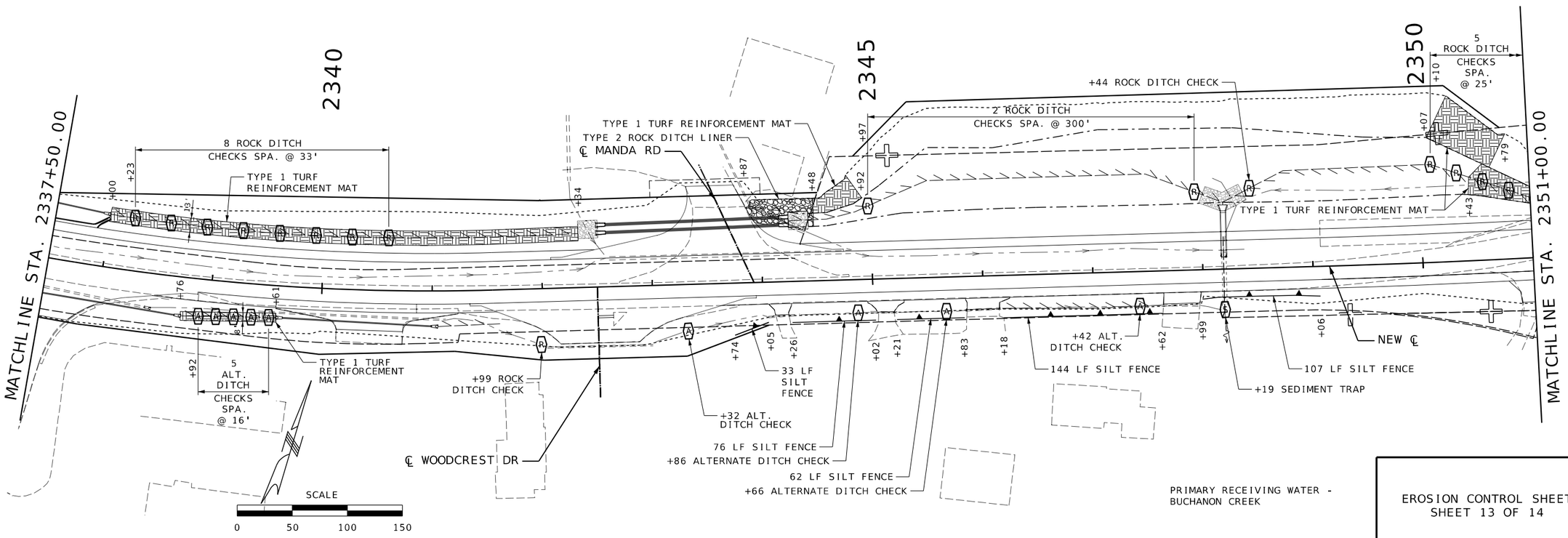
MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

EFK•Moen
Civil Engineering Design
13523 Barrett Parkway Dr
Suite 250
St Louis, MO 63021
Phone 314-394-3100
Fax 314-394-3199
Missouri Certificate of Authority: 001578

TEMPORARY EROSION CONTROL LEGEND

- (A) ALTERNATE DITCH CHECK
- (R) ROCK DITCH CHECK
- (S) SEDIMENT TRAP
- ROCK DITCH LINER
- TURF REINFORCEMENT MAT
- SILT FENCE





PRIMARY RECEIVING WATER - BUCHANON CREEK

EROSION CONTROL SHEET
SHEET 13 OF 14

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STATE OF MISSOURI
MARGARET ANN BRUNS
NUMBER PE-2010000798
PROFESSIONAL ENGINEER

7/30/2025 4:14:55 PM
Margaret Ann Bruns - Civil
MO PE-2010000798

DATE PREPARED
7/30/2025

ROUTE	STATE
47	MO
DISTRICT	SHEET NO.
NE	203

COUNTY
LINCOLN

JOB NO.
JNE0003

CONTRACT ID.
.

PROJECT NO.
.

BRIDGE NO.
.

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

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
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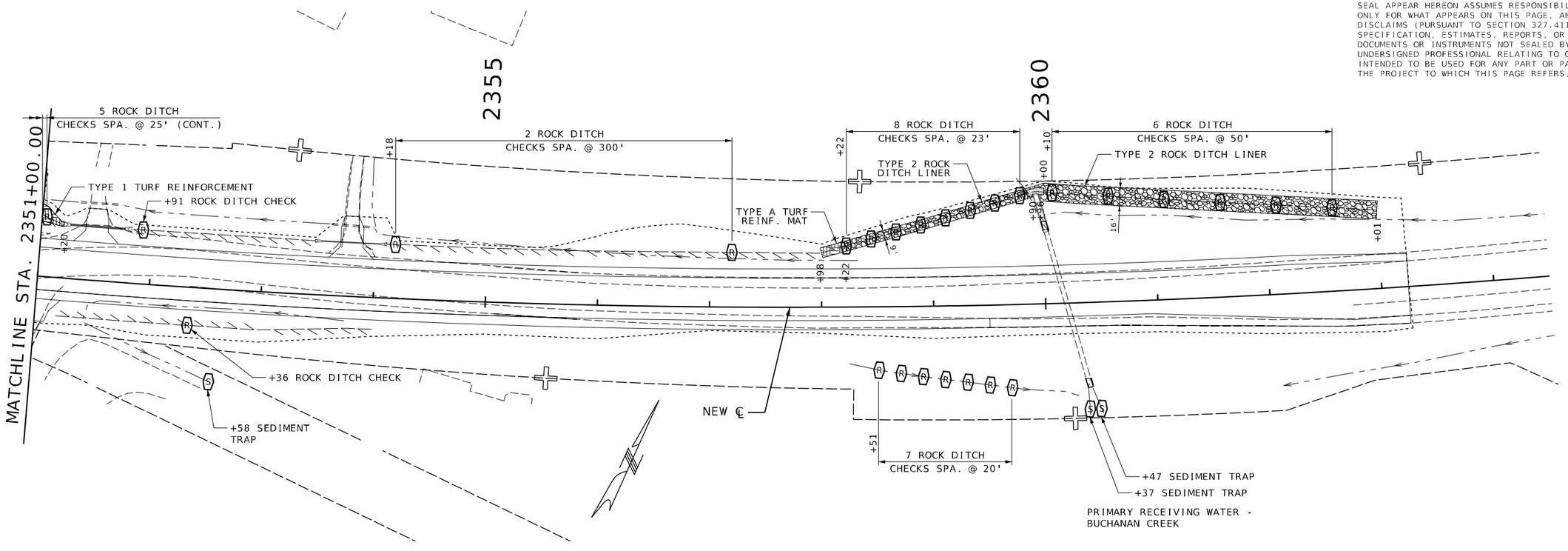

TEMPORARY EROSION CONTROL LEGEND

(A)	ALTERNATE DITCH CHECK		ROCK DITCH LINER
(R)	ROCK DITCH CHECK		TURF REINFORCEMENT MAT
(S)	SEDIMENT TRAP		SILT FENCE

SCALE
0 50 100 150

EROSION CONTROL SHEET
SHEET 14 OF 14

STATE OF MISSOURI
PROFESSIONAL ENGINEER
MARGARET ANN BRUNS
NUMBER PE-2010000798
7/30/2025 4:14:55 PM
Margaret Ann Bruns - Civil
MO PE:2010000798

DATE PREPARED
7/30/2025

ROUTE	STATE
47	MO
DISTRICT	SHEET NO.
NE	204

COUNTY
LINCOLN
JOB NO.
JNE0003
CONTRACT ID.
PROJECT NO.
BRIDGE NO.

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

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

EFK•Moen
Civil Engineering Design
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St. Louis, MO 63021
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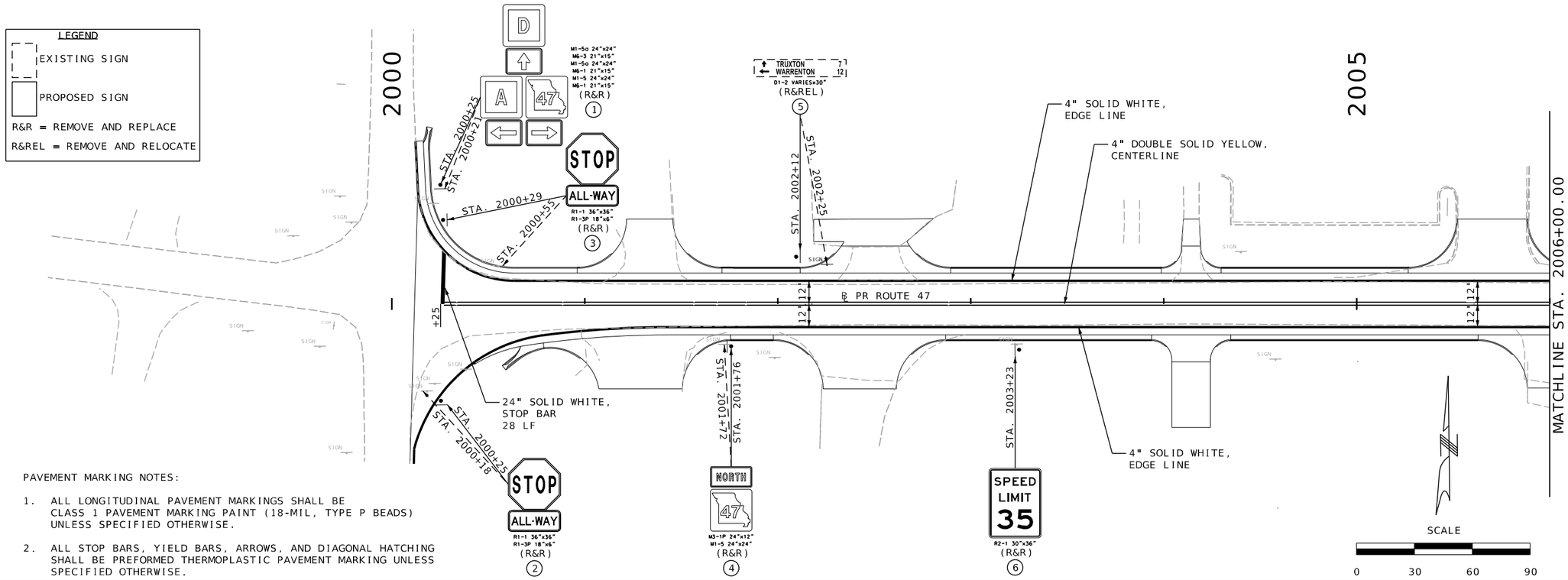
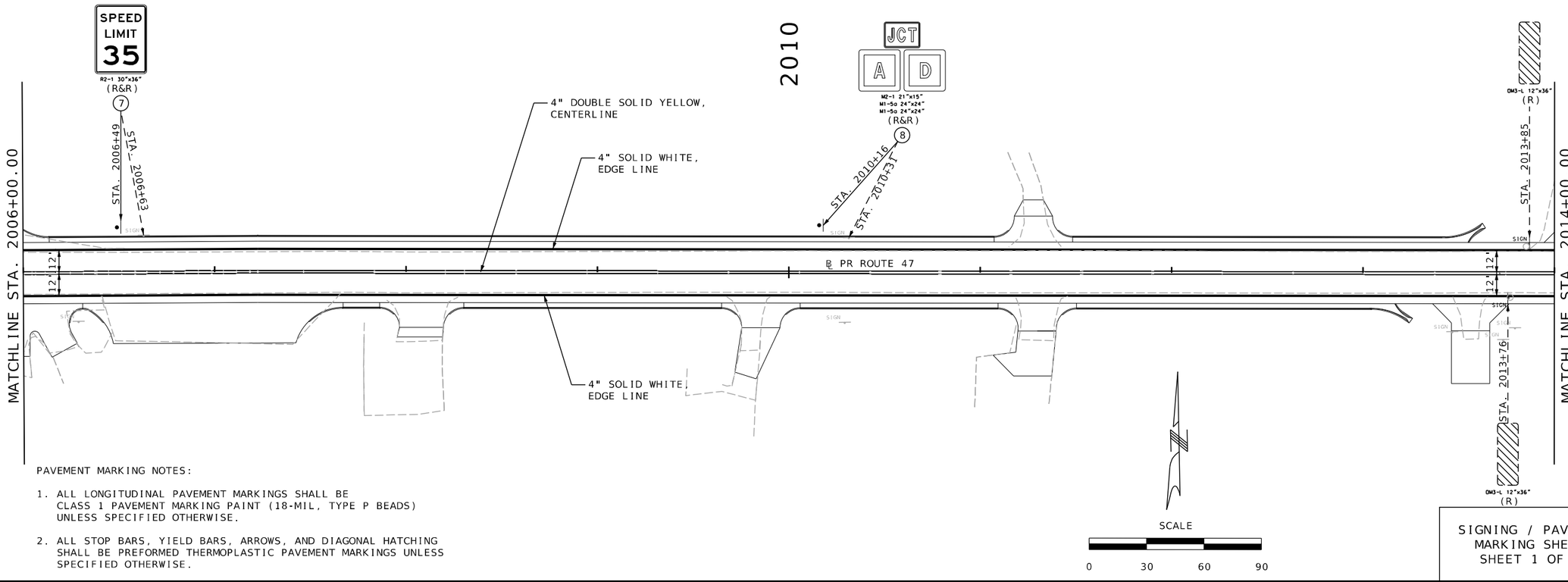


PAVEMENT MARKING NOTES:

1. ALL LONGITUDINAL PAVEMENT MARKINGS SHALL BE CLASS 1 PAVEMENT MARKING PAINT (18-MIL, TYPE P BEADS) UNLESS SPECIFIED OTHERWISE.
2. ALL STOP BARS, YIELD BARS, ARROWS, AND DIAGONAL HATCHING SHALL BE PREFORMED THERMOPLASTIC PAVEMENT MARKING UNLESS SPECIFIED OTHERWISE.



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SIGNING / PAVEMENT MARKING SHEETS
SHEET 1 OF 30

STATE OF MISSOURI
JEFFREY R. RENSING
NUMBER PE-2006012376
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

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

DATE PREPARED
8/26/2025

ROUTE	STATE
47	MO
DISTRICT	SHEET NO.
NE	205

COUNTY
LINCOLN

JOB NO.
JNE0003

CONTRACT ID.
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PROJECT NO.
.

BRIDGE NO.
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DATE	DESCRIPTION
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MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

105 WEST CAPITOL
JEFFERSON CITY, MO 65102
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OATES ASSOCIATES

Collinsville
100 Lamer Court, Suite 1
Collinsville, IL 62234
618.345.2200

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Belleville, IL 62220
618.416.4888

St. Louis
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St. Louis, MO 63101
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820 South Main, Suite 309
St. Charles, MO 63301
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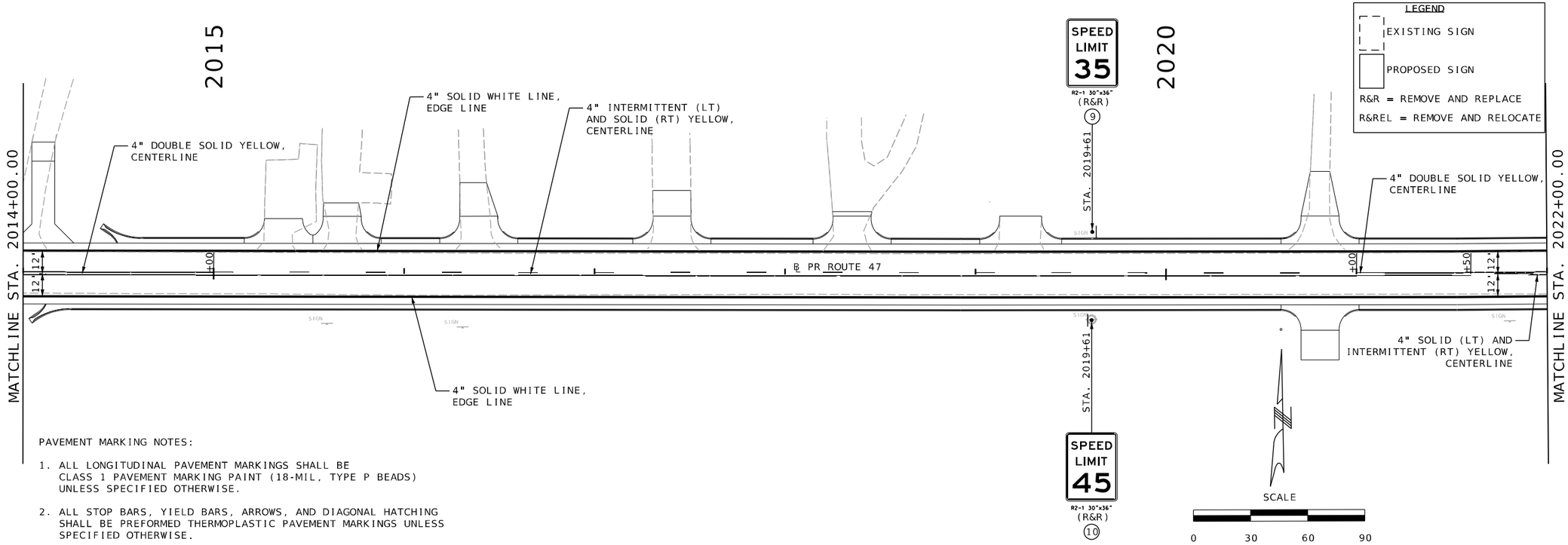
MISSOURI DESIGN FIRM PE-001166



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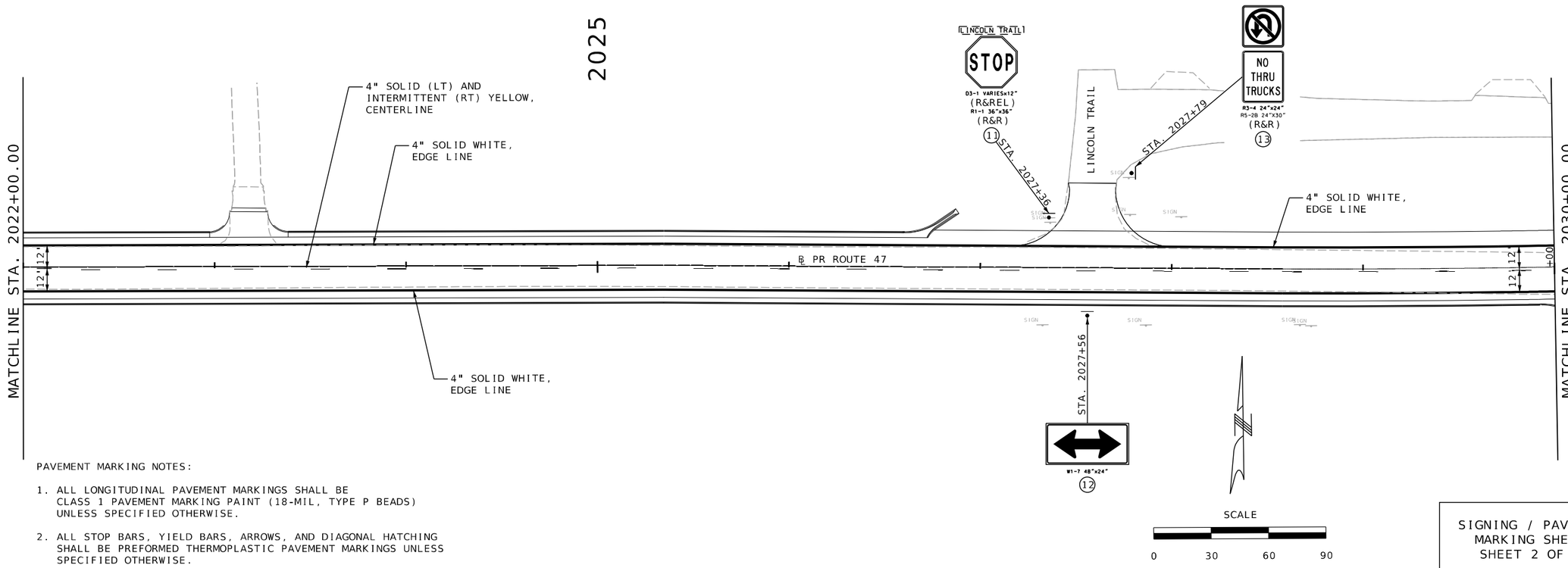

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SIGNING / PAVEMENT MARKING SHEETS
SHEET 2 OF 30

STATE OF MISSOURI
JEFFREY R. RENSING
NUMBER PE-2006012376
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

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

DATE PREPARED 8/26/2025

ROUTE	STATE
47	MO
DISTRICT	SHEET NO.
NE	206

COUNTY: LINCOLN
JOB NO.: JNE0003
CONTRACT ID.:
PROJECT NO.:
BRIDGE NO.:

DESCRIPTION	DATE

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

OATES ASSOCIATES
Collinsville
100 Lamer Court, Suite 1
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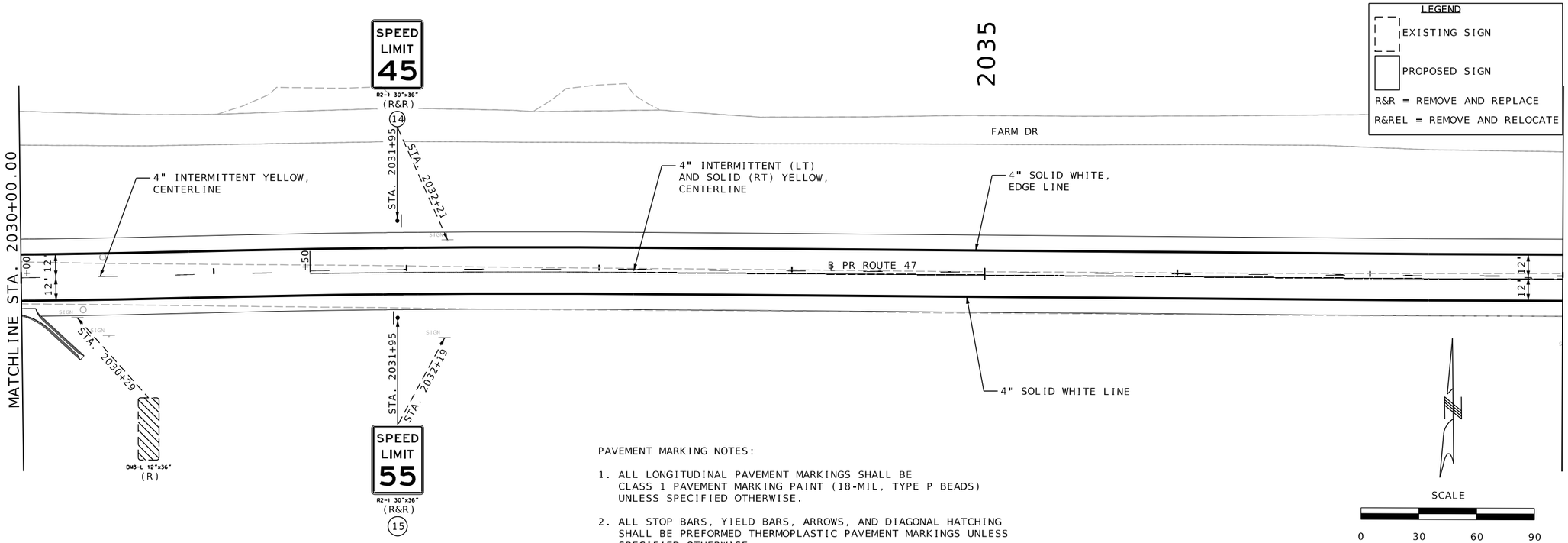
Belleville, IL 62220
618.416.4868
St. Louis
720 Olive, Suite 700
St. Louis, MO 63101
314.588.8381
St. Charles
820 South Main, Suite 309
St. Charles, MO 63301
636.493.6277
www.oatesassociates.com
MISSOURI DESIGN FIRM PE-001166



PAVEMENT MARKING NOTES:

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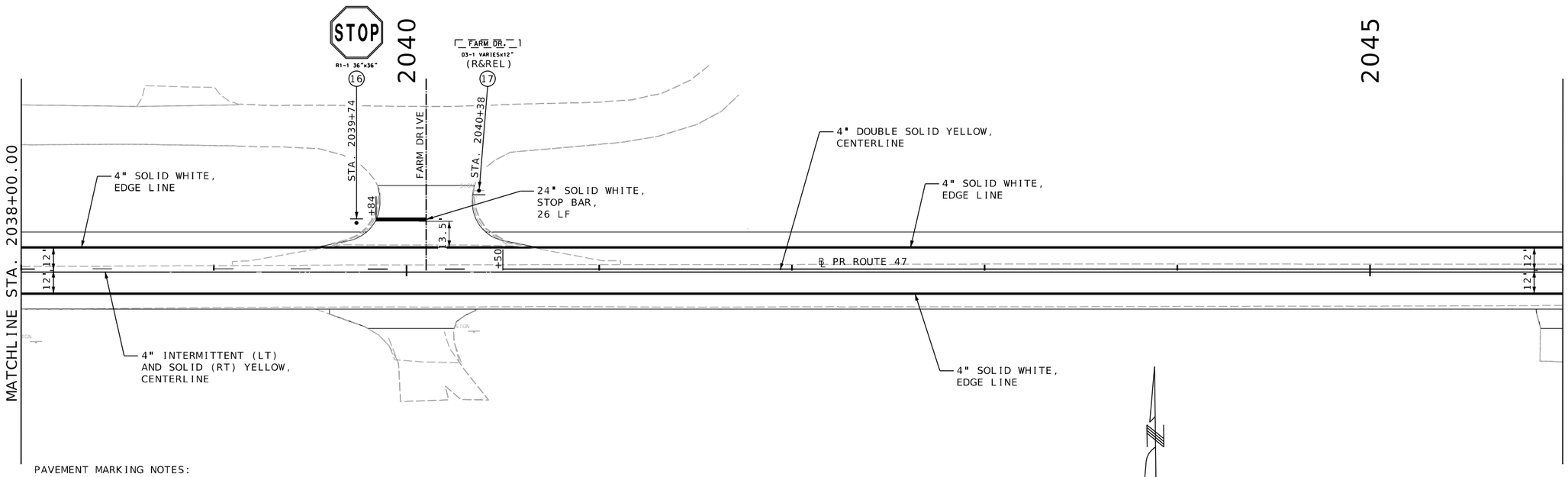

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SIGNING / PAVEMENT MARKING SHEETS
SHEET 3 OF 30

STATE OF MISSOURI
JEFFREY R. RENSING
NUMBER PE-2006012376
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

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

DATE PREPARED	8/26/2025
ROUTE	STATE
47	MO
DISTRICT	SHEET NO.
NE	207
COUNTY	LINCOLN
JOB NO.	JNE0003
CONTRACT ID.	.
PROJECT NO.	.
BRIDGE NO.	.

DATE	DESCRIPTION
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MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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

OATES ASSOCIATES

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314.588.8381

St. Charles
820 South Main, Suite 309
St. Charles, MO 63301
636.493.6277

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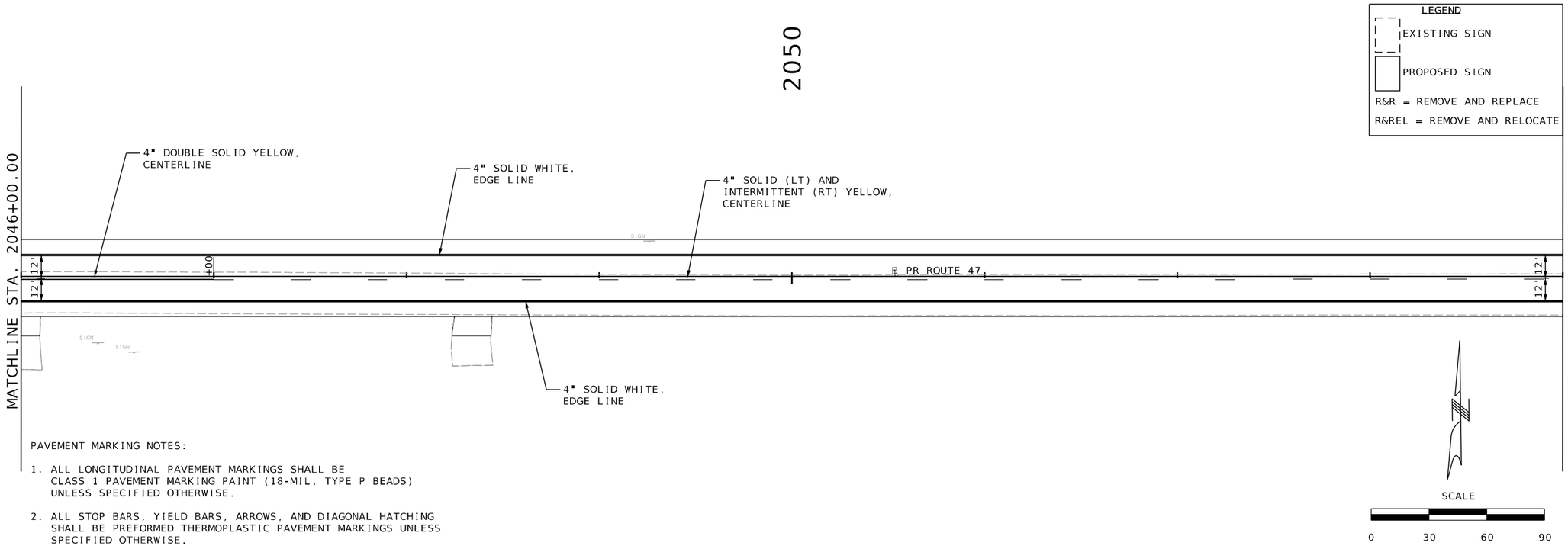
MISSOURI DESIGN FIRM PE-001166

H:\P\222102 - Route 47 Pavement, Safety, and Shoulder Improvements\CADD\Microstation\CADD Drawings\JNE0003 - sht-pmk_sign.dgn 10:25:51 AM 8/26/2025



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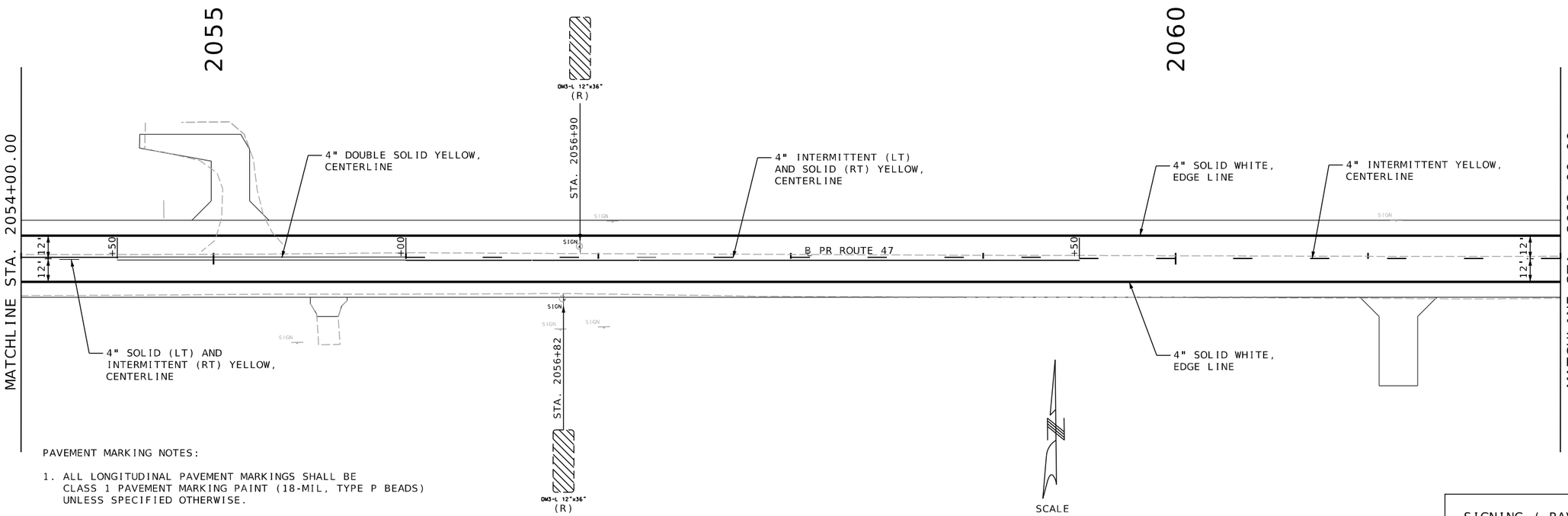

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SIGNING / PAVEMENT MARKING SHEETS
SHEET 4 OF 30

STATE OF MISSOURI
JEFFREY R. RENSING
NUMBER PE-2006012376
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

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

DATE PREPARED 8/26/2025

ROUTE	STATE
47	MO
DISTRICT	SHEET NO.
NE	208

COUNTY: LINCOLN
JOB NO.: JNE0003
CONTRACT ID.:
PROJECT NO.:
BRIDGE NO.:

DESCRIPTION	DATE

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

OATES ASSOCIATES
Collinsville: 100 Lamer Court, Suite 1, Collinsville IL 62234, 618.345.2200
St. Louis: 720 Olive, Suite 700, St. Louis, MO 63101, 314.588.8381
Belleville: 1 South Church, Suite 200, Belleville, IL 62220, 618.416.4888
St. Charles: 820 South Main, Suite 309, St. Charles, MO 63301, 636.493.6277
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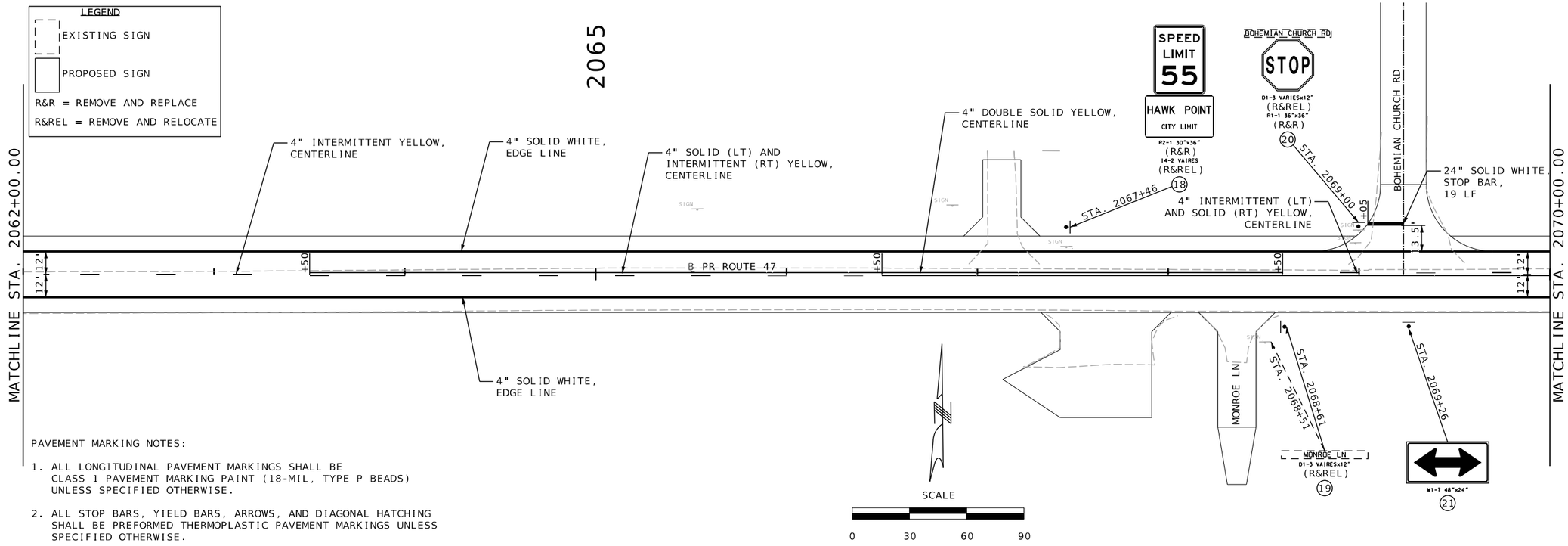
MISSOURI DESIGN FIRM PE-001166



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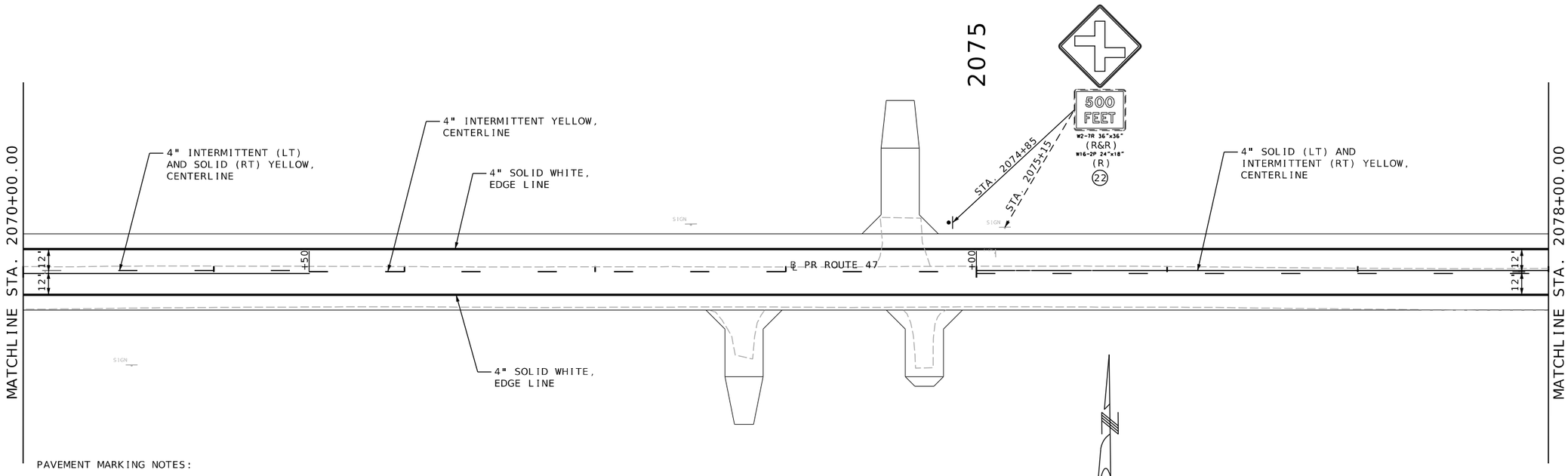

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SIGNING / PAVEMENT MARKING SHEETS
SHEET 5 OF 30

STATE OF MISSOURI
JEFFREY R. RENSING
NUMBER PE-2006012376
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

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

DATE PREPARED	8/26/2025
ROUTE	47
STATE	MO
DISTRICT	NE
SHEET NO.	209
COUNTY	LINCOLN
JOB NO.	JNE0003
CONTRACT ID.	.
PROJECT NO.	.
BRIDGE NO.	.

DESCRIPTION	DATE
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MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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

OATES ASSOCIATES

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720 Olive, Suite 700
St. Louis, MO 63101
314.588.8881

St. Charles
820 South Main, Suite 309
St. Charles, MO 63301
636.493.6277

Collinsville
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Collinsville, IL 62234
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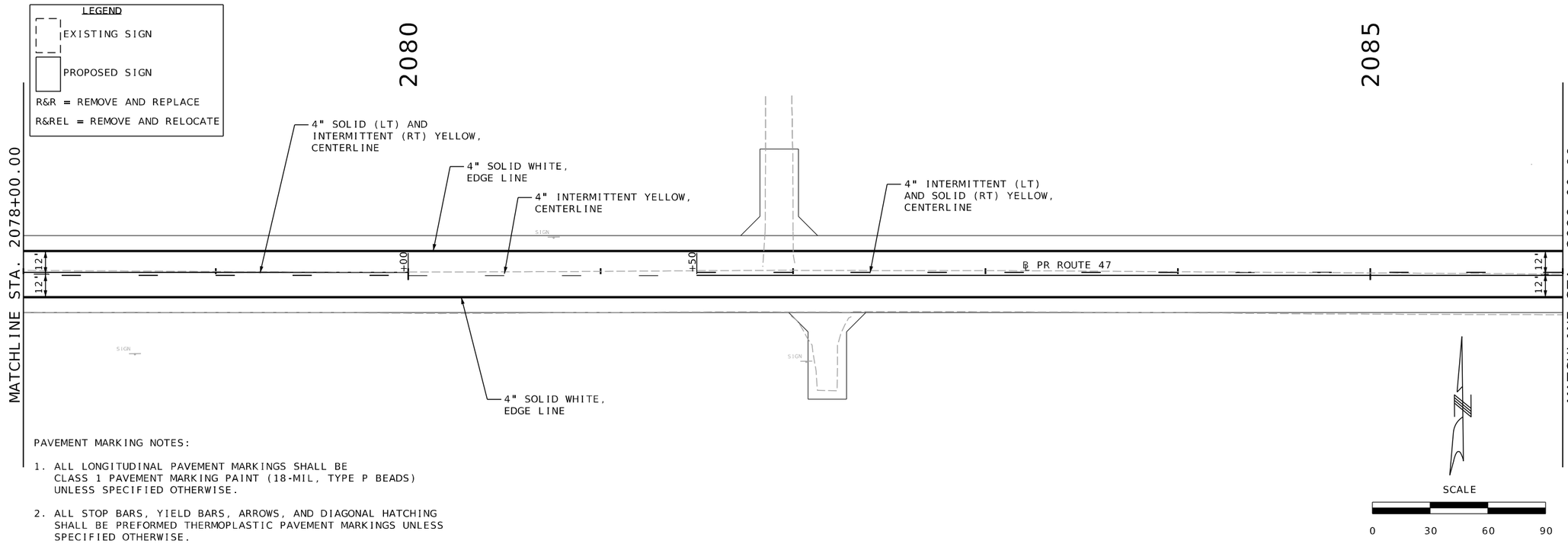
MISSOURI DESIGN FIRM PE-001166



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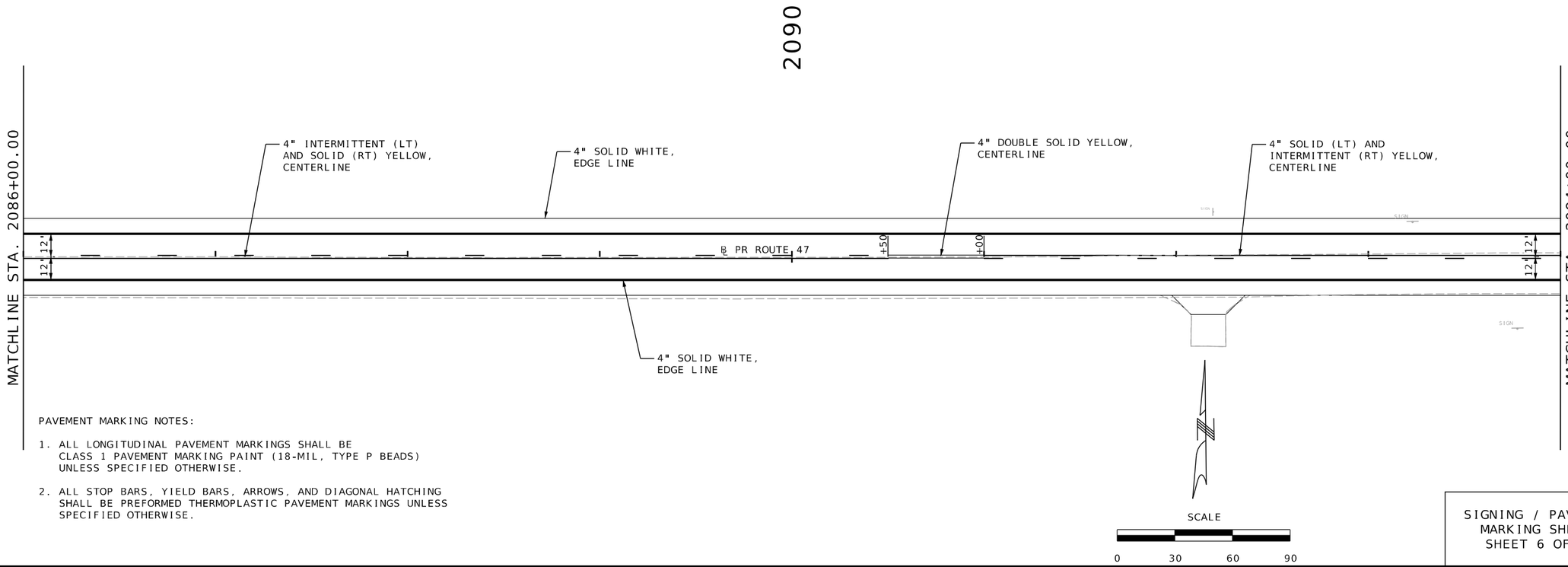

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SIGNING / PAVEMENT MARKING SHEETS
SHEET 6 OF 30

STATE OF MISSOURI
JEFFREY R. RENSING
NUMBER PE-2006012376
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

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

DATE PREPARED: 8/26/2025

ROUTE	STATE
47	MO
DISTRICT	SHEET NO.
NE	210

COUNTY: LINCOLN
JOB NO.: JNE0003
CONTRACT ID.: .
PROJECT NO.: .
BRIDGE NO.: .

DESCRIPTION	DATE
.	.

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

OATES ASSOCIATES
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100 Lanter Court, Suite 1
Collinsville IL 62234
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St. Louis
720 Olive, Suite 700
St. Louis, MO 63101
314.588.8381
Belleville
1 South Church, Suite 200
Belleville, IL 62220
618.416.4868
St. Charles
820 South Main, Suite 309
St. Charles, MO 63301
636.493.6277
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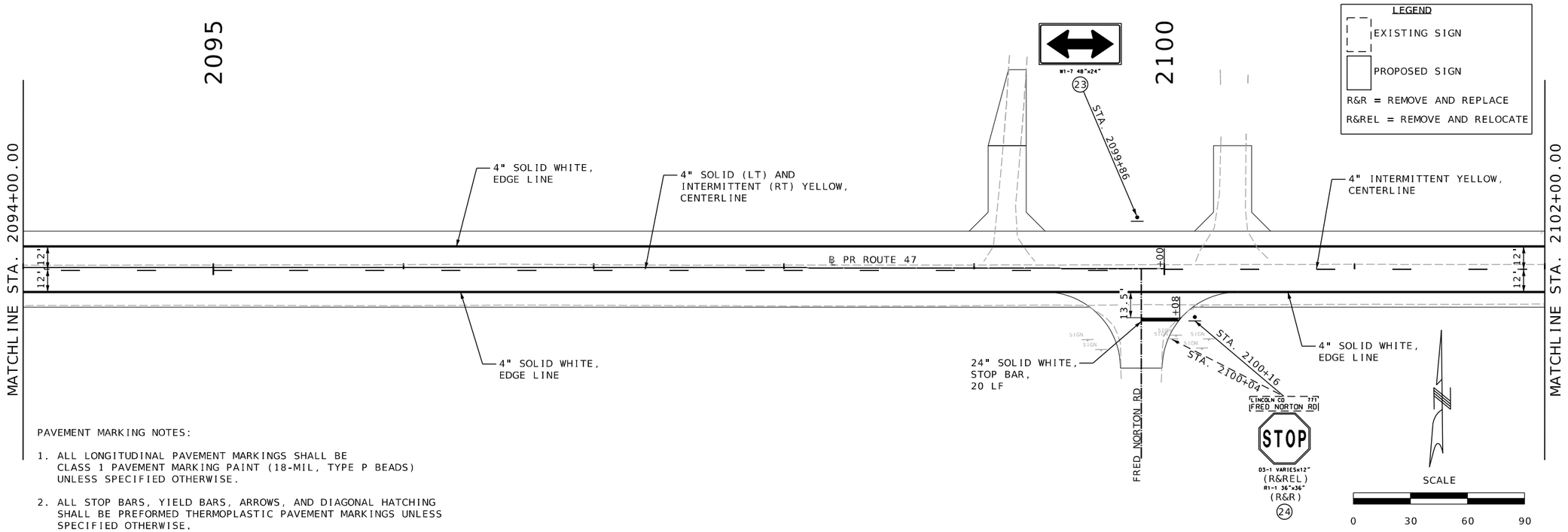
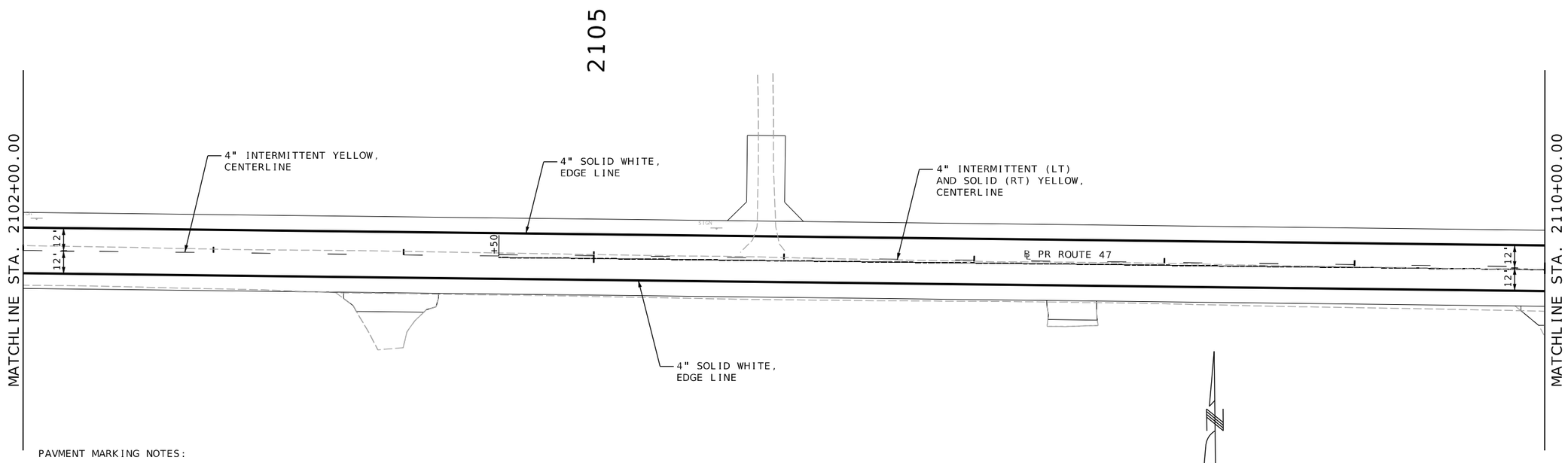
MISSOURI DESIGN FIRM PE-001166



PAVEMENT MARKING NOTES:

1. ALL LONGITUDINAL PAVEMENT MARKINGS SHALL BE CLASS 1 PAVEMENT MARKING PAINT (18-MIL, TYPE P BEADS) UNLESS SPECIFIED OTHERWISE.

2. ALL STOP BARS, YIELD BARS, ARROWS, AND DIAGONAL HATCHING SHALL BE PREFORMED THERMOPLASTIC PAVEMENT MARKINGS UNLESS SPECIFIED OTHERWISE.



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SIGNING / PAVEMENT MARKING SHEETS
SHEET 7 OF 30

STATE OF MISSOURI
JEFFREY R. RENSING
NUMBER PE-2006012376
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

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

DATE PREPARED
8/26/2025

ROUTE	STATE
47	MO
DISTRICT	SHEET NO.
NE	211

COUNTY
LINCOLN

JOB NO.
JNE0003

CONTRACT ID.
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PROJECT NO.
.

BRIDGE NO.
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DESCRIPTION	DATE
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MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

105 WEST CAPITOL
JEFFERSON CITY, MO 65102
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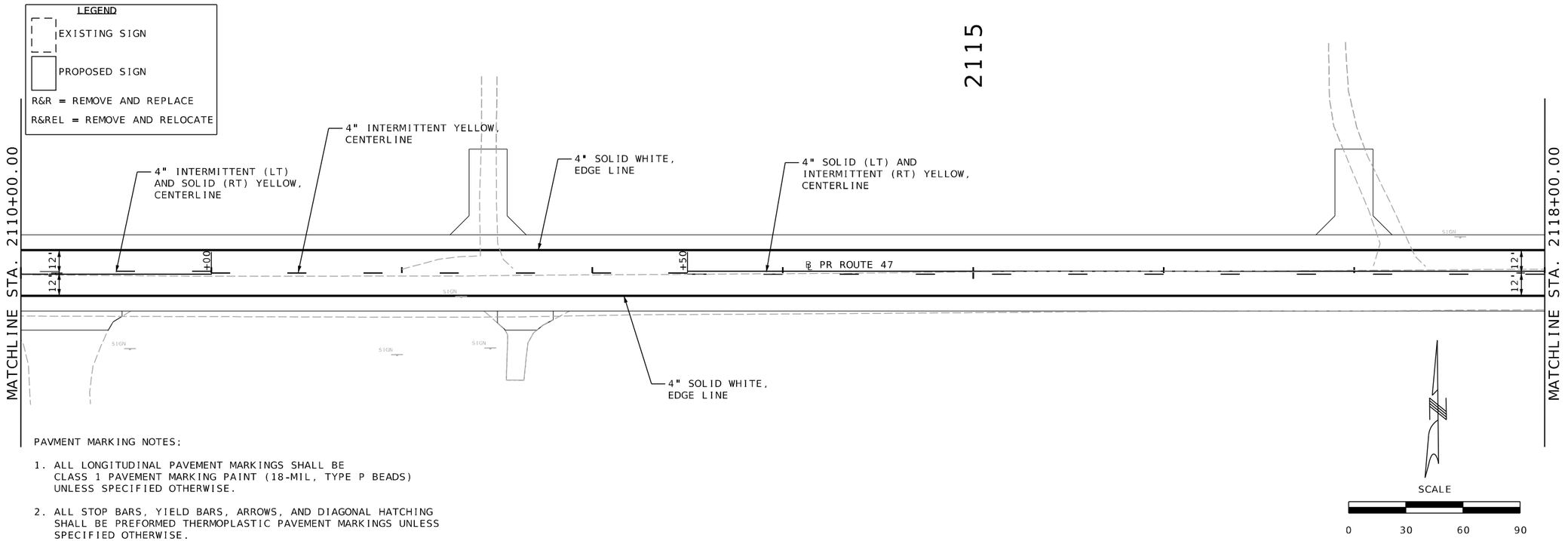
MISSOURI DESIGN FIRM PE-001166



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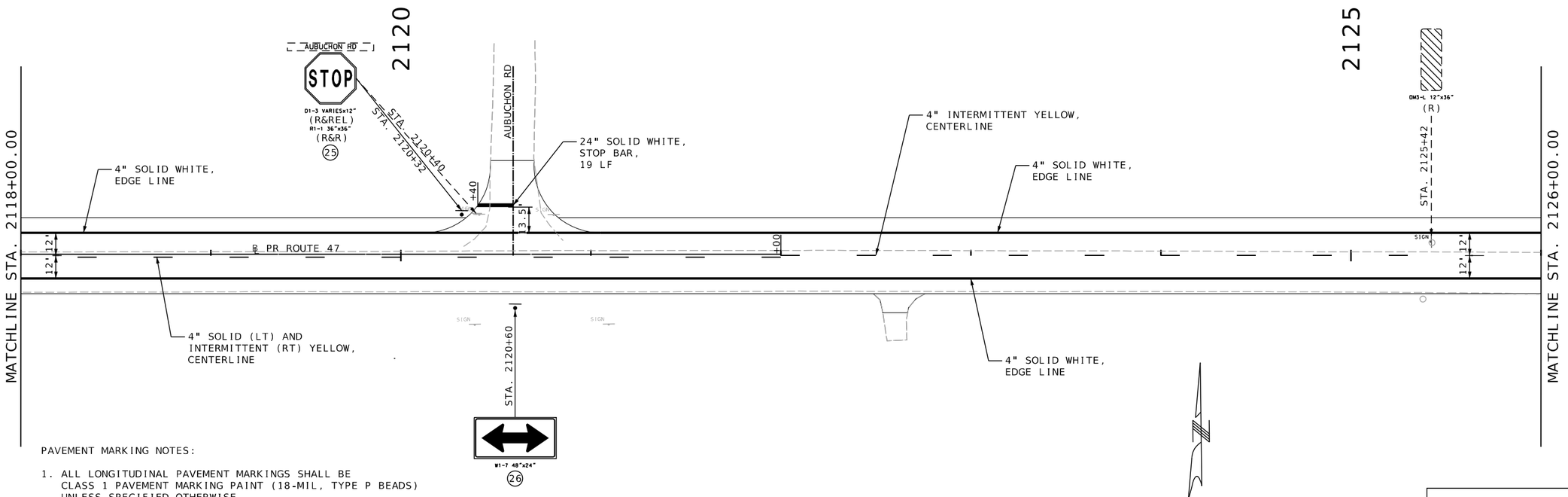

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SIGNING / PAVEMENT MARKING SHEETS
SHEET 8 OF 30

STATE OF MISSOURI
JEFFREY R. RENSING
NUMBER PE-2006012376
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED 8/26/2025

ROUTE	STATE
47	MO
DISTRICT	SHEET NO.
NE	212

COUNTY: LINCOLN
JOB NO.: JNE0003
CONTRACT ID.:
PROJECT NO.:
BRIDGE NO.:

DESCRIPTION	DATE

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

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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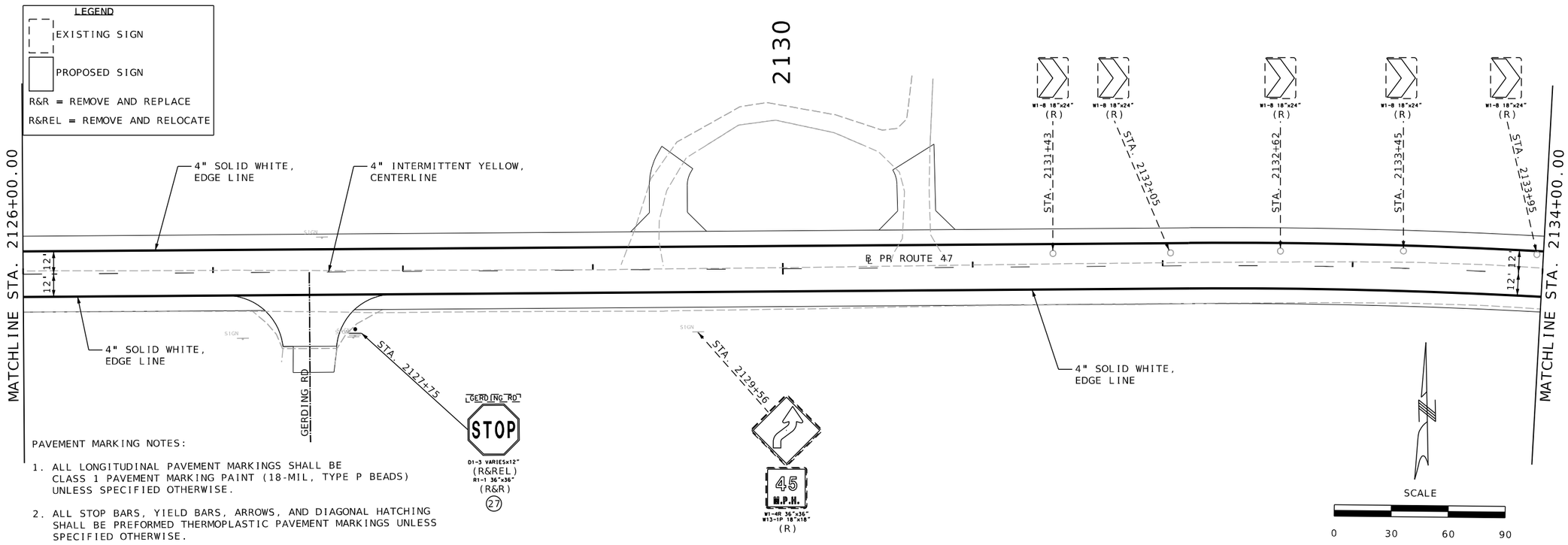
MISSOURI DESIGN FIRM PE-001166



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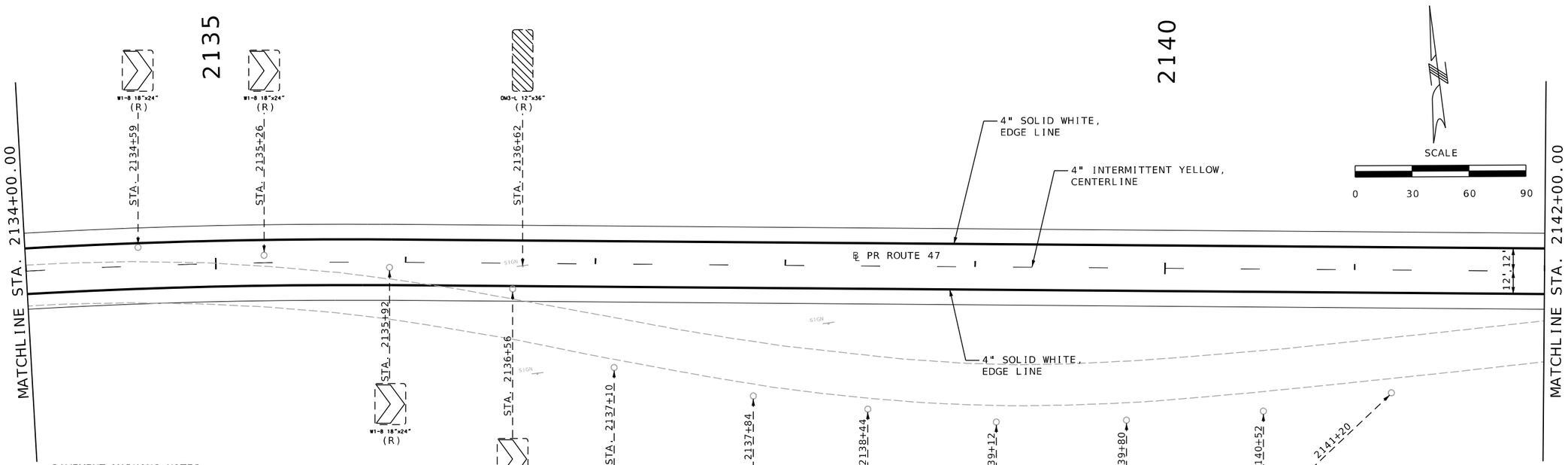

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SIGNING / PAVEMENT MARKING SHEETS
SHEET 9 OF 30

STATE OF MISSOURI
JEFFREY R. RENSING
NUMBER PE-2006012376
PROFESSIONAL ENGINEER

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

DATE PREPARED	8/26/2025
ROUTE	47
STATE	MO
DISTRICT	NE
SHEET NO.	213
COUNTY	LINCOLN
JOB NO.	JNE0003
CONTRACT ID.	.
PROJECT NO.	.
BRIDGE NO.	.

DESCRIPTION	DATE
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MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

105 WEST CAPITOL
JEFFERSON CITY, MO 65102
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314.588.8881

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St. Charles, MO 63301
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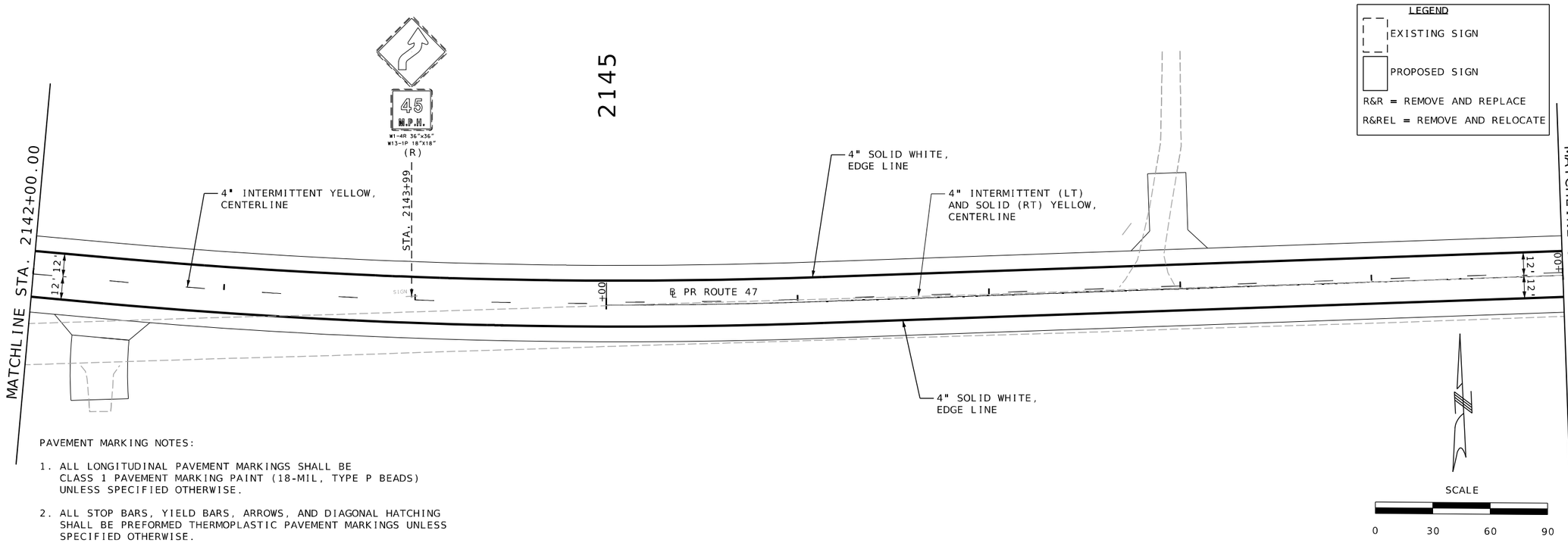
MISSOURI DESIGN FIRM PE-001166

H:\P\222102 - Route 47 Pavement, Safety, and Shoulder Improvements\CADD\Microstation\CADD Drawings\JNE0003 - sht-pmk_sign.dgn 10:31:06 AM 8/26/2025



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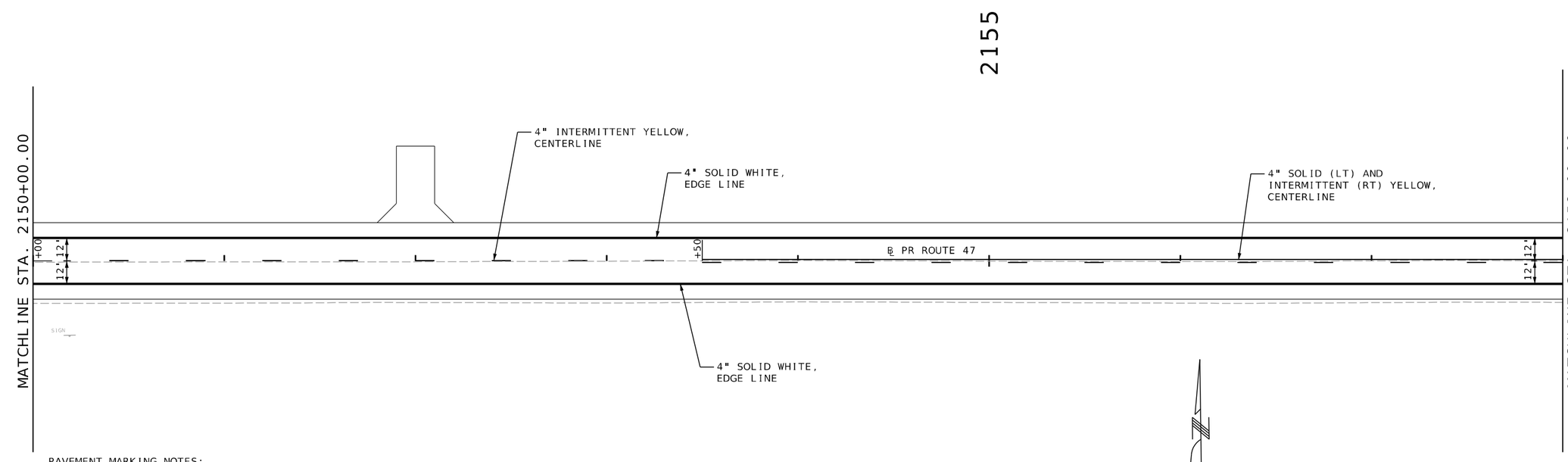

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SIGNING / PAVEMENT MARKING SHEETS
SHEET 10 OF 30

STATE OF MISSOURI
JEFFREY R. RENSING
NUMBER PE-2006012376
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

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

DATE PREPARED: 8/26/2025

ROUTE	STATE
47	MO
DISTRICT	SHEET NO.
NE	214

COUNTY: LINCOLN
JOB NO.: JNE0003
CONTRACT ID.: .
PROJECT NO.: .
BRIDGE NO.: .

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

OATES ASSOCIATES

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Belleville
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Belleville, IL 62220
618.416.4888

St. Charles
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St. Charles, MO 63301
636.493.6277

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MISSOURI DESIGN FIRM PE-001166

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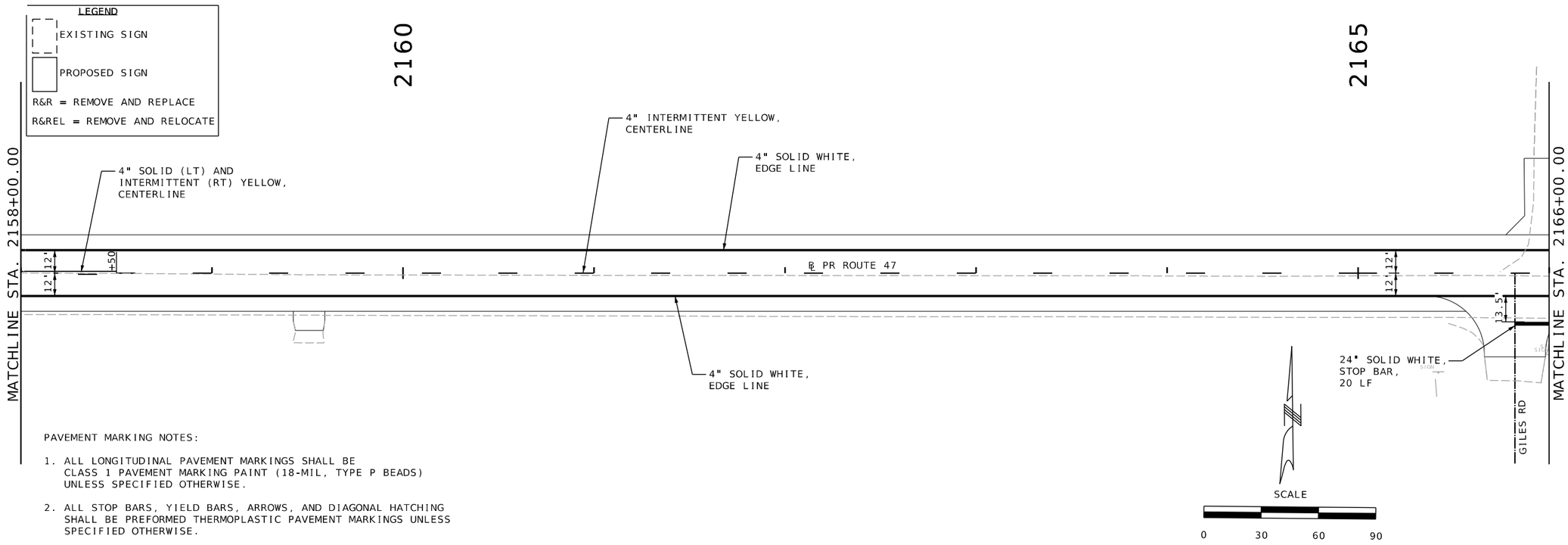

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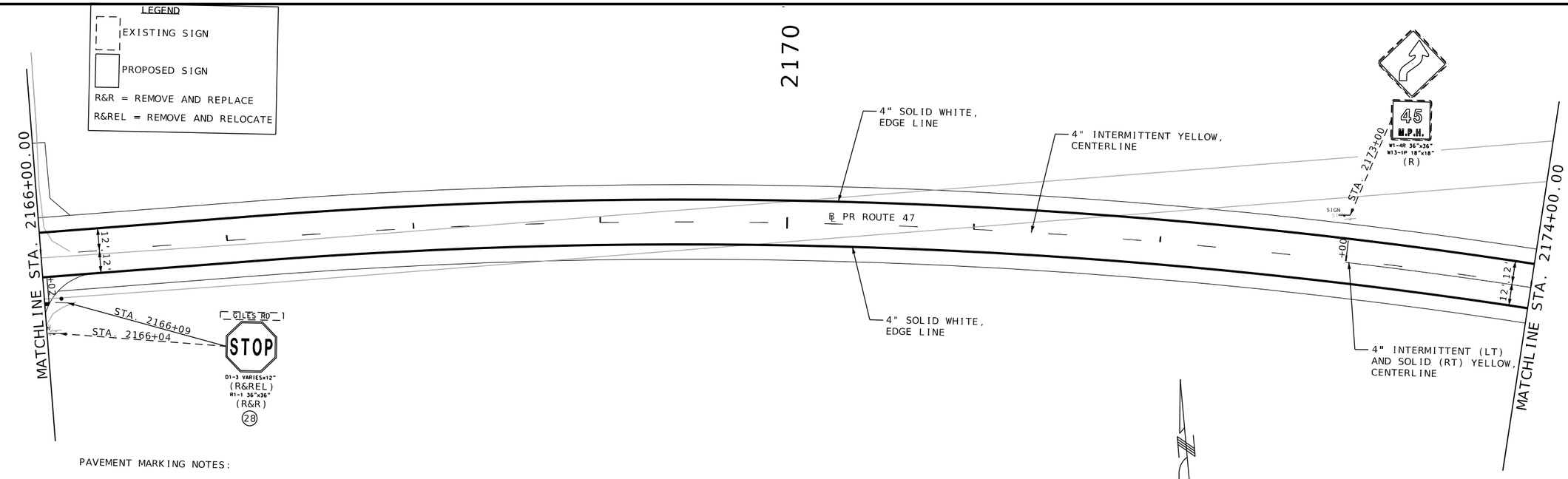

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SIGNING / PAVEMENT MARKING SHEETS
SHEET 11 OF 30

STATE OF MISSOURI
JEFFREY R. RENSING
NUMBER PE-2006012376
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

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

DATE PREPARED	
8/26/2025	
ROUTE	STATE
47	MO
DISTRICT	SHEET NO.
NE	215

COUNTY: LINCOLN
JOB NO.: JNE0003
CONTRACT ID.: .
PROJECT NO.: .
BRIDGE NO.: .

DESCRIPTION	DATE
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MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
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OATES ASSOCIATES
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Collinsville, IL 62234
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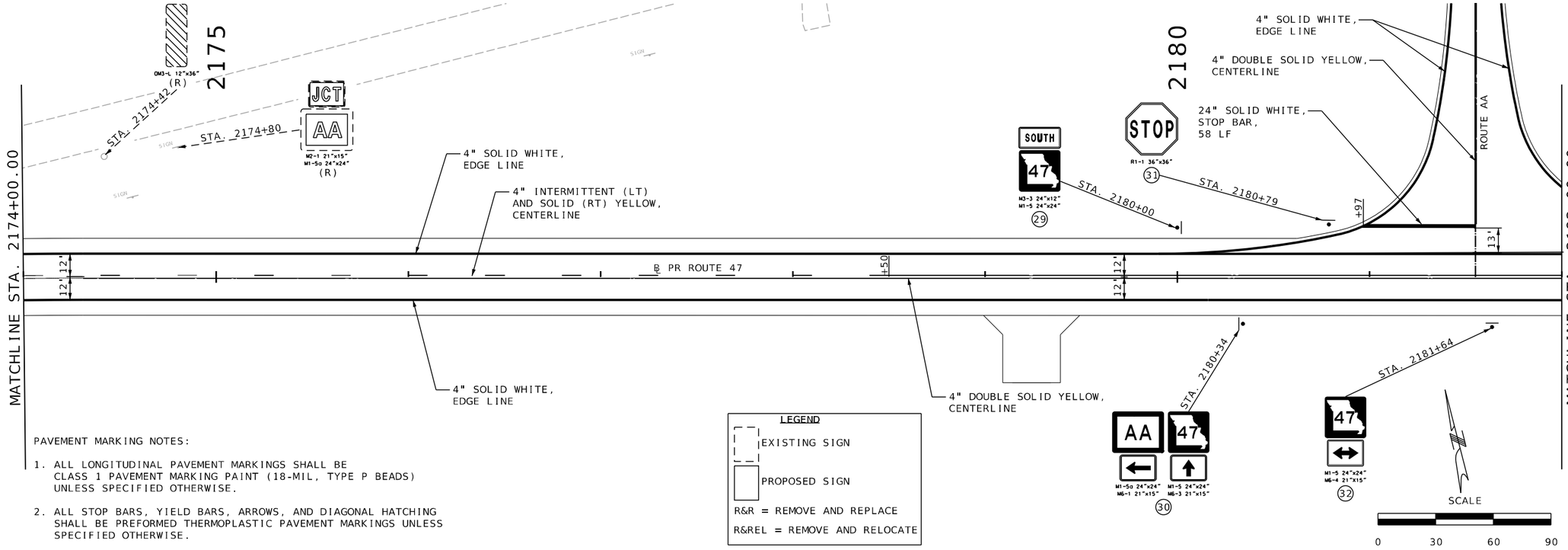
Belleville, IL 62220
618.416.4488
St. Louis
720 Olive, Suite 700
St. Louis, MO 63101
314.588.8381
St. Charles
820 South Main, Suite 309
St. Charles, MO 63301
636.493.6277
www.oatesassociates.com
MISSOURI DESIGN FIRM PE-001166



LEGEND

EXISTING SIGN

PROPOSED SIGN

R&R = REMOVE AND REPLACE

R&REL = REMOVE AND RELOCATE

PAVEMENT MARKING NOTES:

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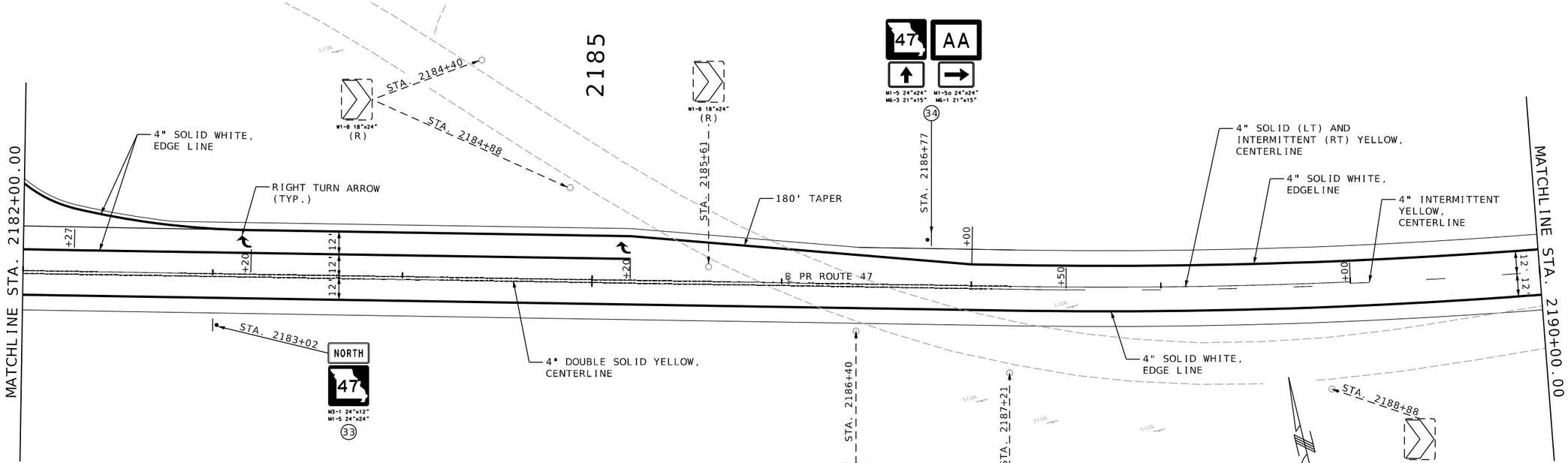

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SIGNING / PAVEMENT MARKING SHEETS
SHEET 12 OF 30

STATE OF MISSOURI
JEFFREY R. RENSING
NUMBER PE-2006012376
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED
8/26/2025

ROUTE	STATE
47	MO
DISTRICT	SHEET NO.
NE	216

COUNTY
LINCOLN

JOB NO.
JNE0003

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

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

OATES ASSOCIATES

Collinsville
100 Lamer Court, Suite 1
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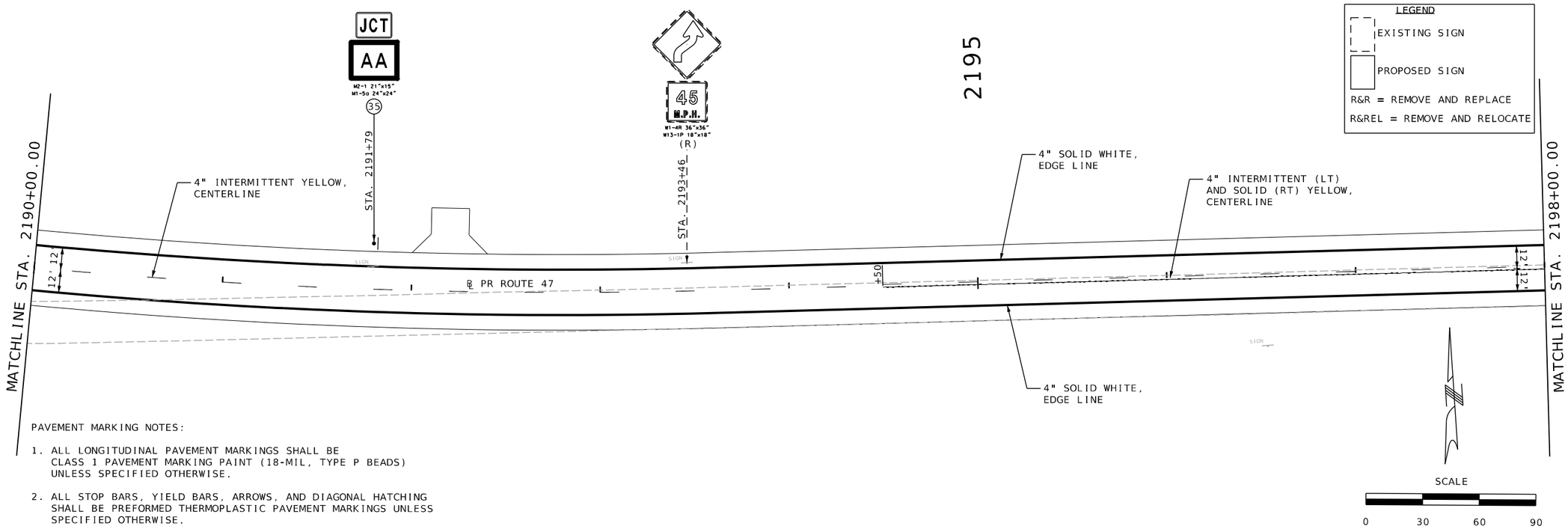
MISSOURI DESIGN FIRM PE-001166



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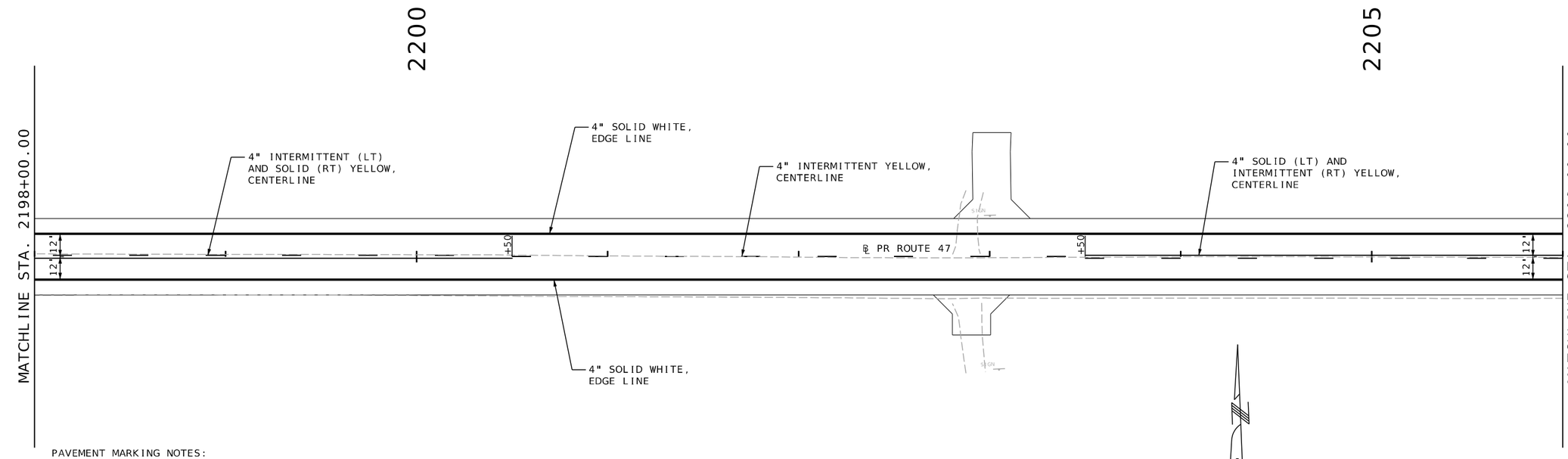

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SIGNING / PAVEMENT MARKING SHEETS
SHEET 13 OF 30

STATE OF MISSOURI
JEFFREY R. RENSING
NUMBER PE-2006012376
PROFESSIONAL ENGINEER

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DATE PREPARED: 8/26/2025

ROUTE	STATE
47	MO
DISTRICT	SHEET NO.
NE	217

COUNTY: LINCOLN
JOB NO.: JNE0003
CONTRACT ID.:
PROJECT NO.:
BRIDGE NO.:

DESCRIPTION	DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
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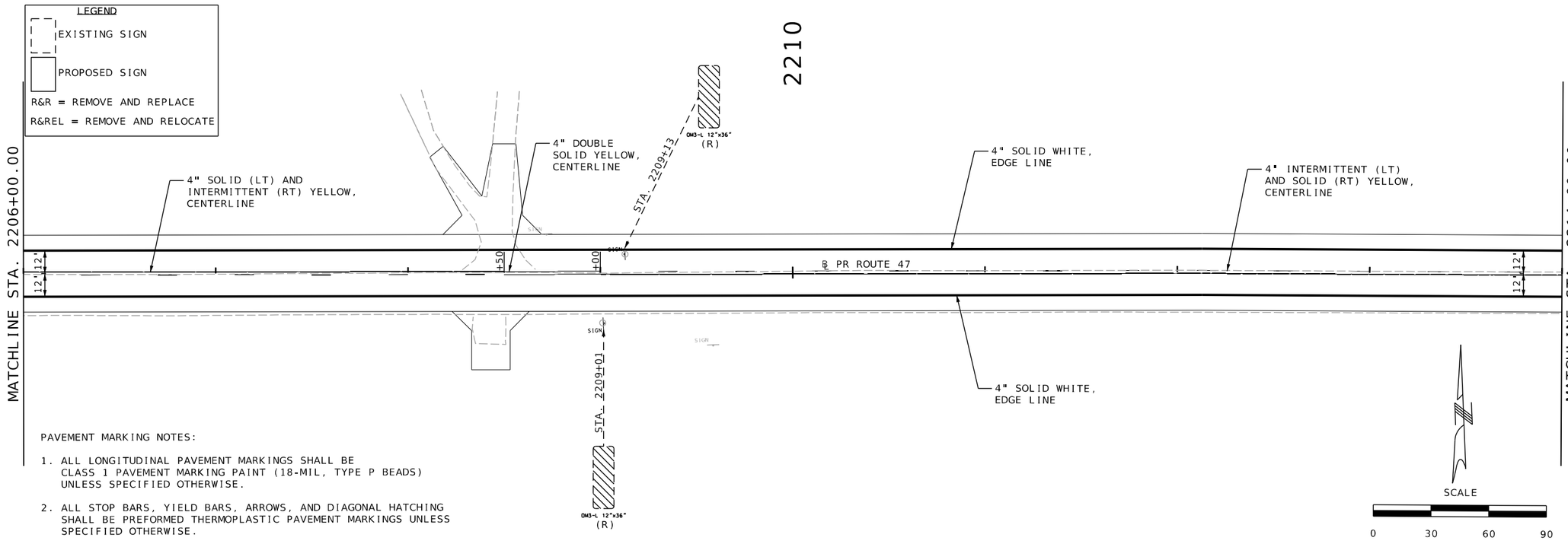
MISSOURI DESIGN FIRM PE-001166

H:\P\222102 - Route 47 Pavement, Safety, and Shoulder Improvements\CADD\Microstation\CADD Drawings\JNE0003 - sht-pmk_sign.dgn 10:33:52 AM 8/26/2025



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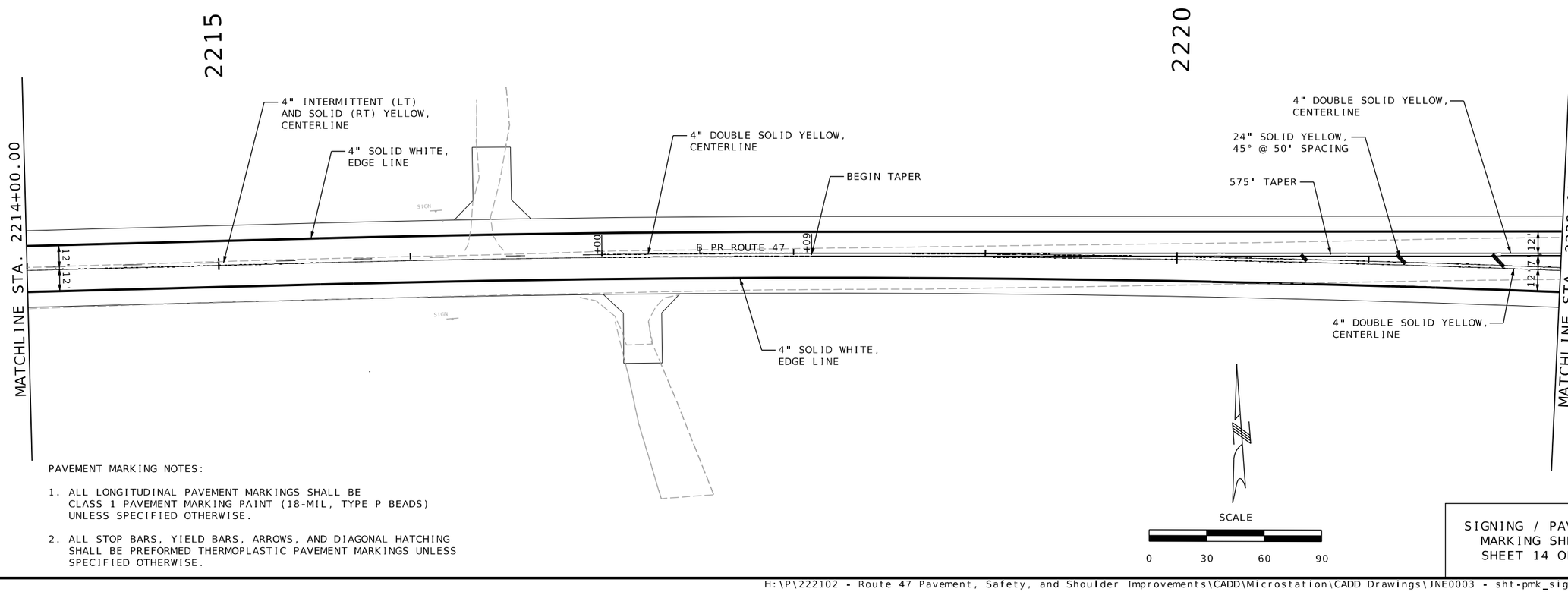

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SIGNING / PAVEMENT MARKING SHEETS
SHEET 14 OF 30

STATE OF MISSOURI
JEFFREY R. RENSING
NUMBER PE-2006012376
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED 8/26/2025

ROUTE	STATE
47	MO
DISTRICT	SHEET NO.
NE	218

COUNTY: LINCOLN
JOB NO.: JNE0003
CONTRACT ID.:
PROJECT NO.:
BRIDGE NO.:

DESCRIPTION	DATE

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

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

OATES ASSOCIATES
MISSOURI DESIGN FIRM PE-001166
Collinsville: 100 Lamer Court, Suite 1, Collinsville IL 62234, 618.345.2200
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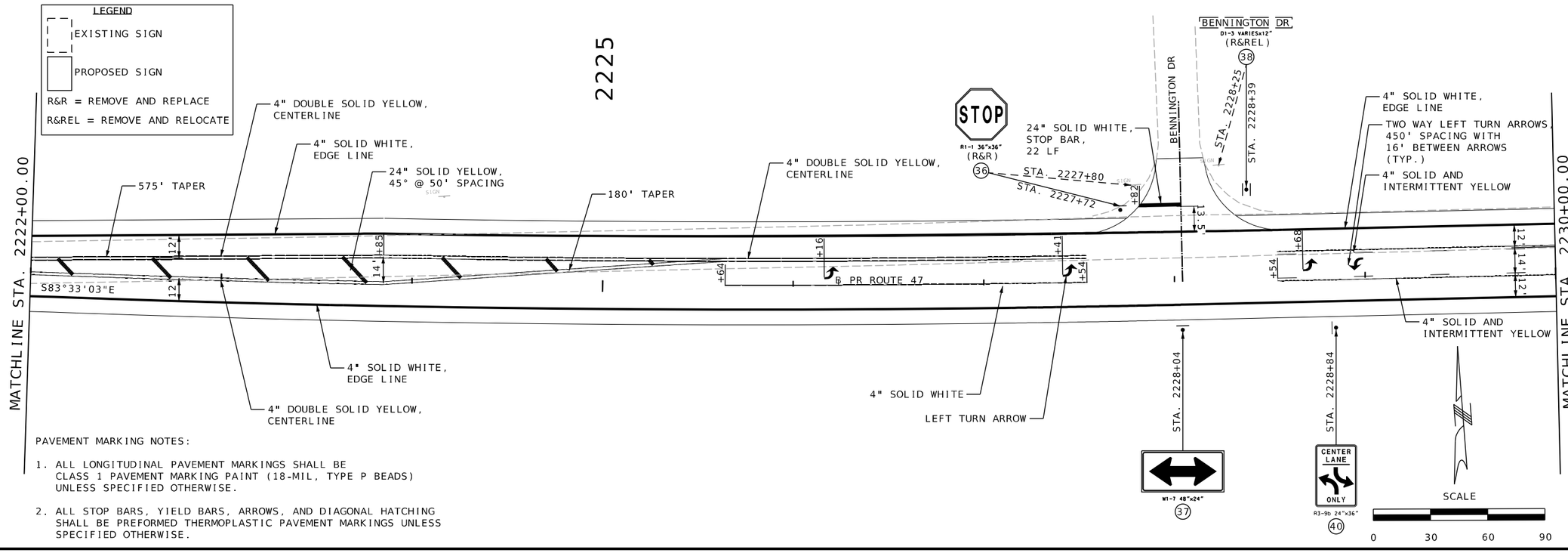

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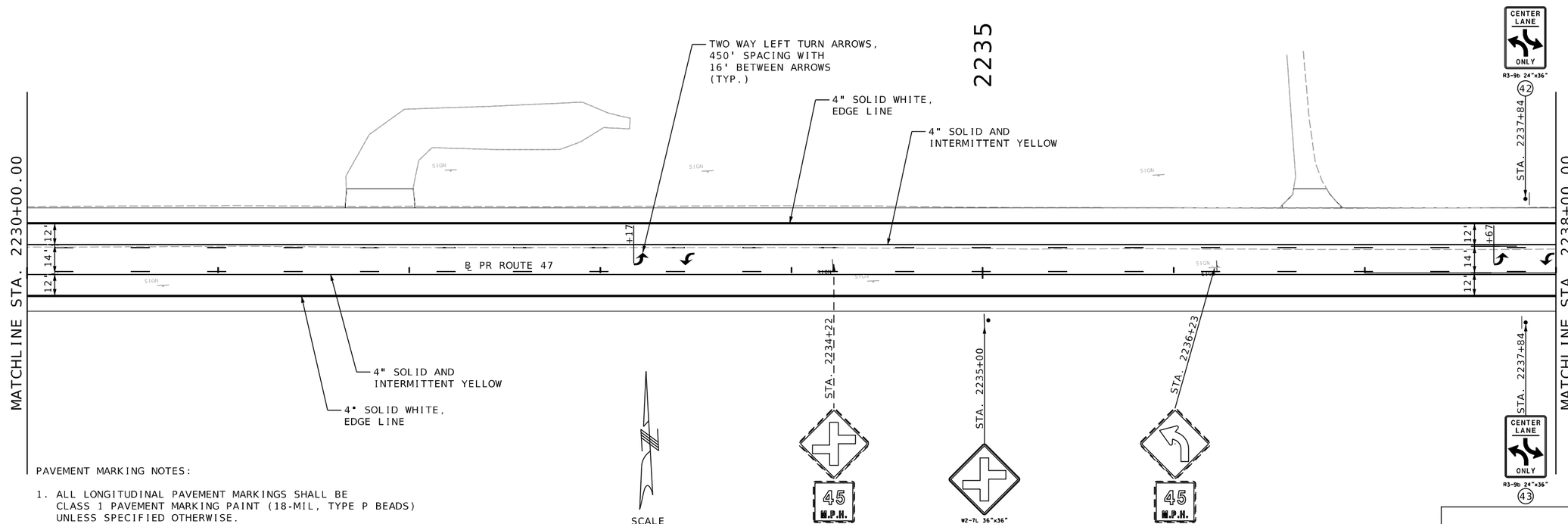

PAVEMENT MARKING NOTES:

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SIGNING / PAVEMENT MARKING SHEETS
SHEET 15 OF 30

STATE OF MISSOURI
JEFFREY R. RENSING
NUMBER PE-2006012376
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED E.LECTRONICALLY.

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

DATE PREPARED 8/26/2025

ROUTE	STATE
47	MO
DISTRICT	SHEET NO.
NE	219

COUNTY: LINCOLN
JOB NO.: JNE0003
CONTRACT ID.:
PROJECT NO.:
BRIDGE NO.:

DESCRIPTION	DATE

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

OATES ASSOCIATES

Collinsville
100 Lamer Court, Suite 1
Collinsville, IL 62234
618.345.2200

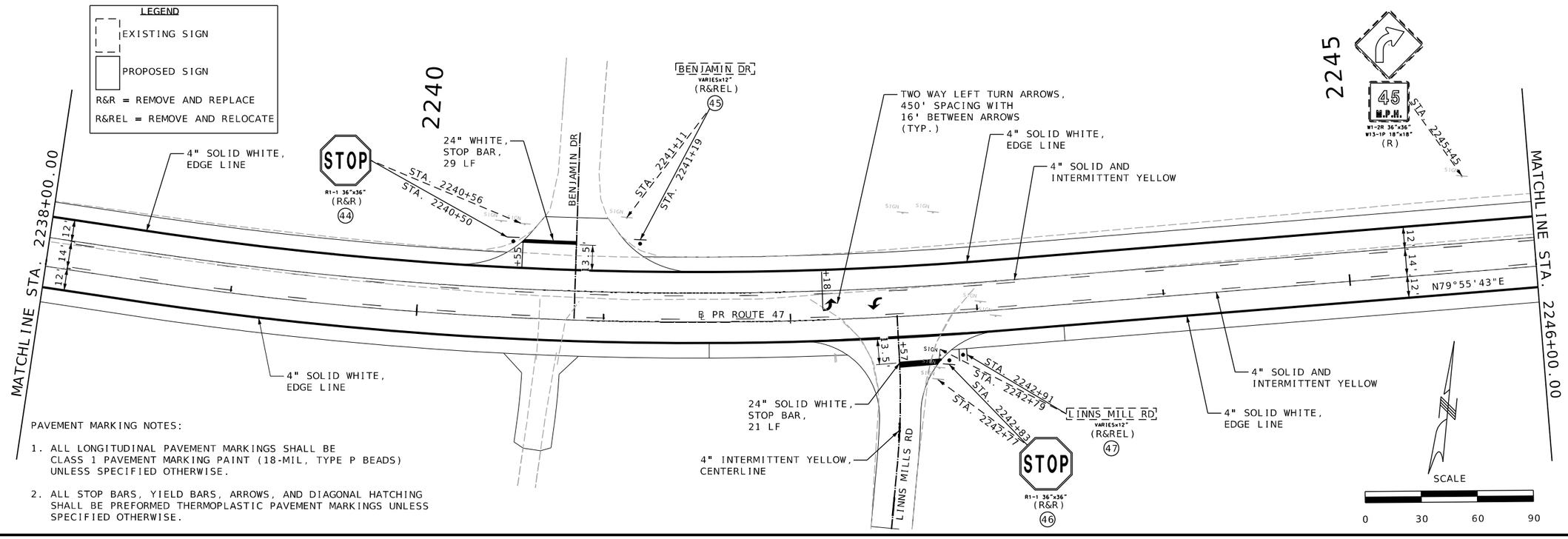
St. Louis
720 Olive, Suite 700
St. Louis, MO 63101
314.588.8381

Belleville
1 South Church, Suite 200
Belleville, IL 62220
618.416.4888

St. Charles
820 South Main, Suite 309
St. Charles, MO 63301
636.493.6277

www.oatesassociates.com

MISSOURI DESIGN FIRM PE-001166



PAVEMENT MARKING NOTES:

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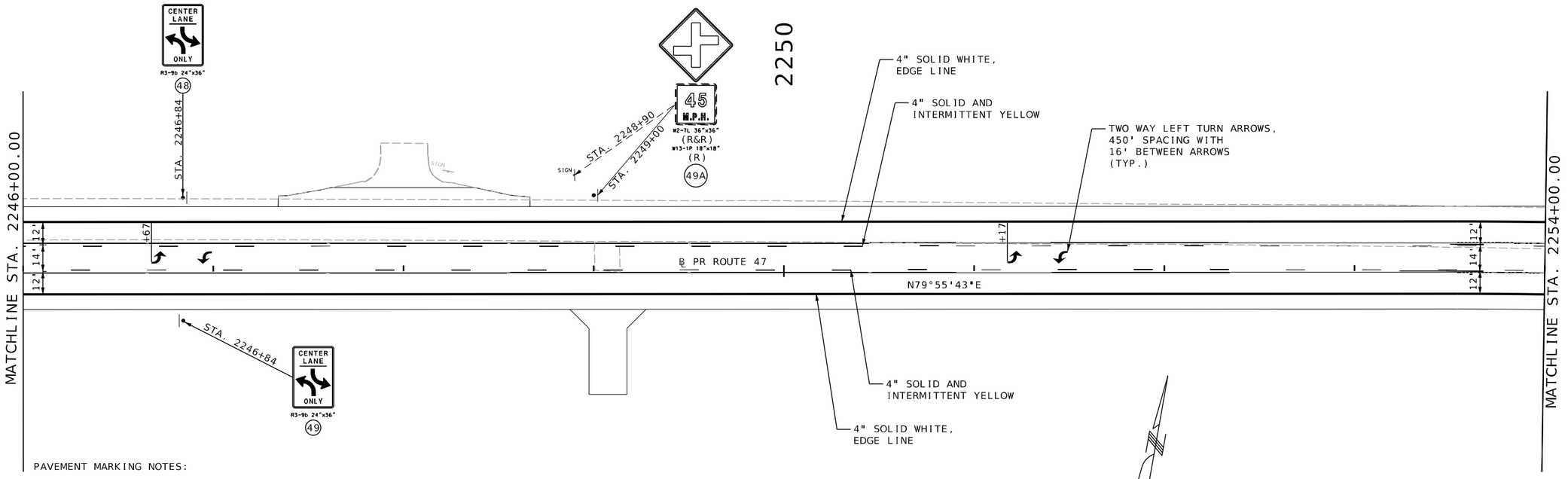

PAVEMENT MARKING NOTES:

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SIGNING / PAVEMENT MARKING SHEETS
SHEET 16 OF 30

STATE OF MISSOURI
JEFFREY R. RENSING
NUMBER PE-2006012376
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

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

DATE PREPARED	
8/26/2025	
ROUTE	STATE
47	MO
DISTRICT	SHEET NO.
NE	220

COUNTY: LINCOLN
JOB NO.: JNE0003
CONTRACT ID.:
PROJECT NO.:
BRIDGE NO.:

DATE	DESCRIPTION

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

OATES ASSOCIATES

Collinsville
100 Lamter Court, Suite 1
Collinsville, IL 62234
618.345.2200

Belleville
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Belleville, IL 62220
618.416.4888

St. Louis
720 Olive, Suite 700
St. Louis, MO 63101
314.588.8381

St. Charles
820 South Main, Suite 309
St. Charles, MO 63301
636.493.6277

www.oatesassociates.com

MISSOURI DESIGN FIRM PE-001166

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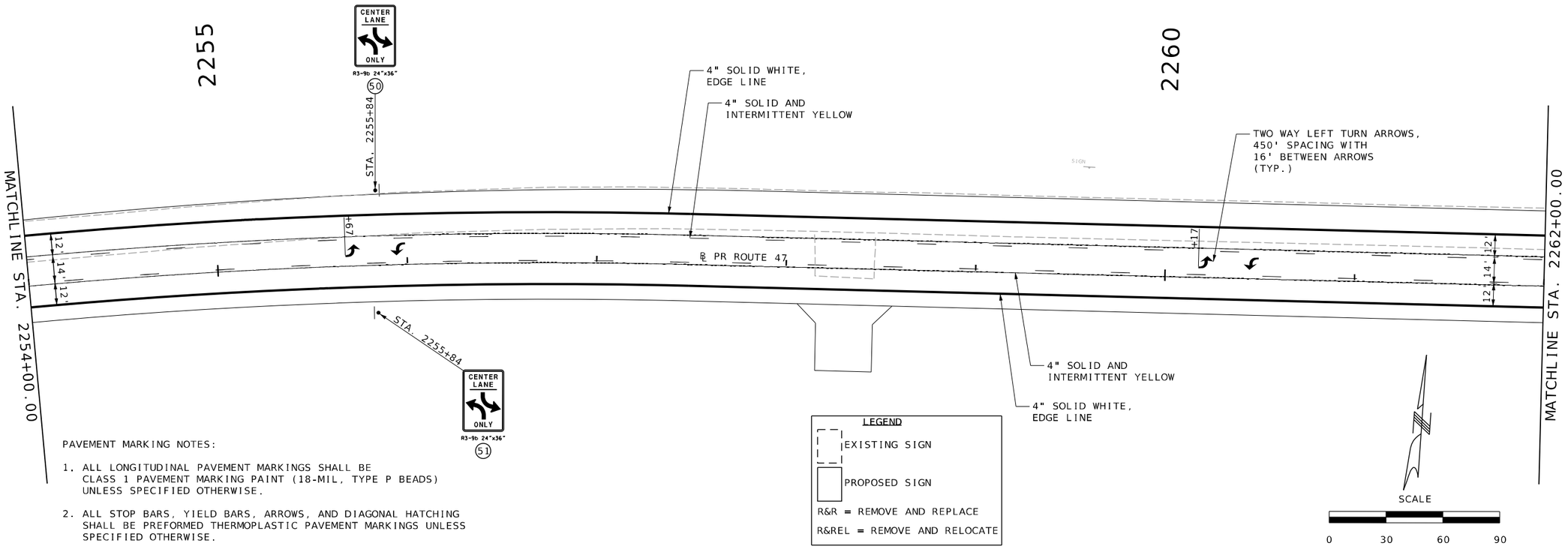

PAVEMENT MARKING NOTES:

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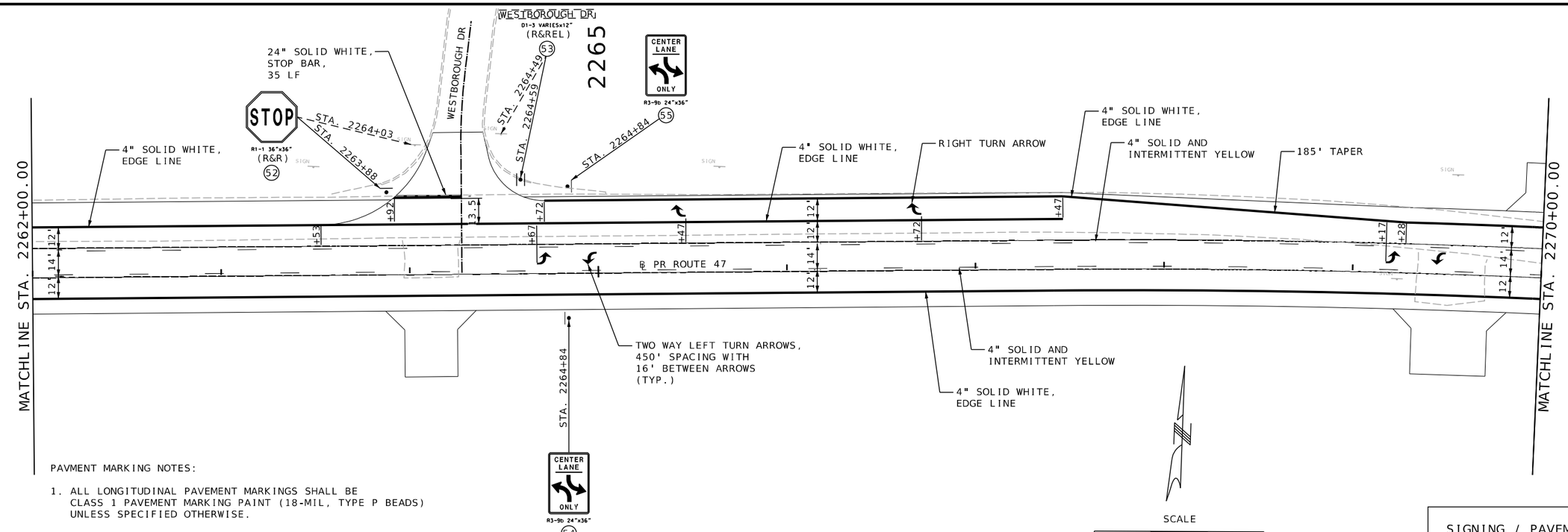

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SIGNING / PAVEMENT MARKING SHEETS
SHEET 17 OF 30

STATE OF MISSOURI
JEFFREY R. RENSING
NUMBER PE-2006012376
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED 8/26/2025

ROUTE	STATE
47	MO
DISTRICT	SHEET NO.
NE	221

COUNTY: LINCOLN
JOB NO.: JNE0003
CONTRACT ID.:
PROJECT NO.:
BRIDGE NO.:

DESCRIPTION	DATE

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

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

OATES ASSOCIATES
MISSOURI DESIGN FIRM PE-001166
St. Louis: 720 Olive, Suite 700, St. Louis, MO 63101, 314.588.8581
St. Charles: 820 South Main, Suite 309, St. Charles, MO 63301, 636.493.6277
Collinsville: 100 Lamer Court, Suite 1, Collinsville, IL 62234, 618.345.2200
Belleville: 1 South Church, Suite 200, Belleville, IL 62220, 618.416.4588
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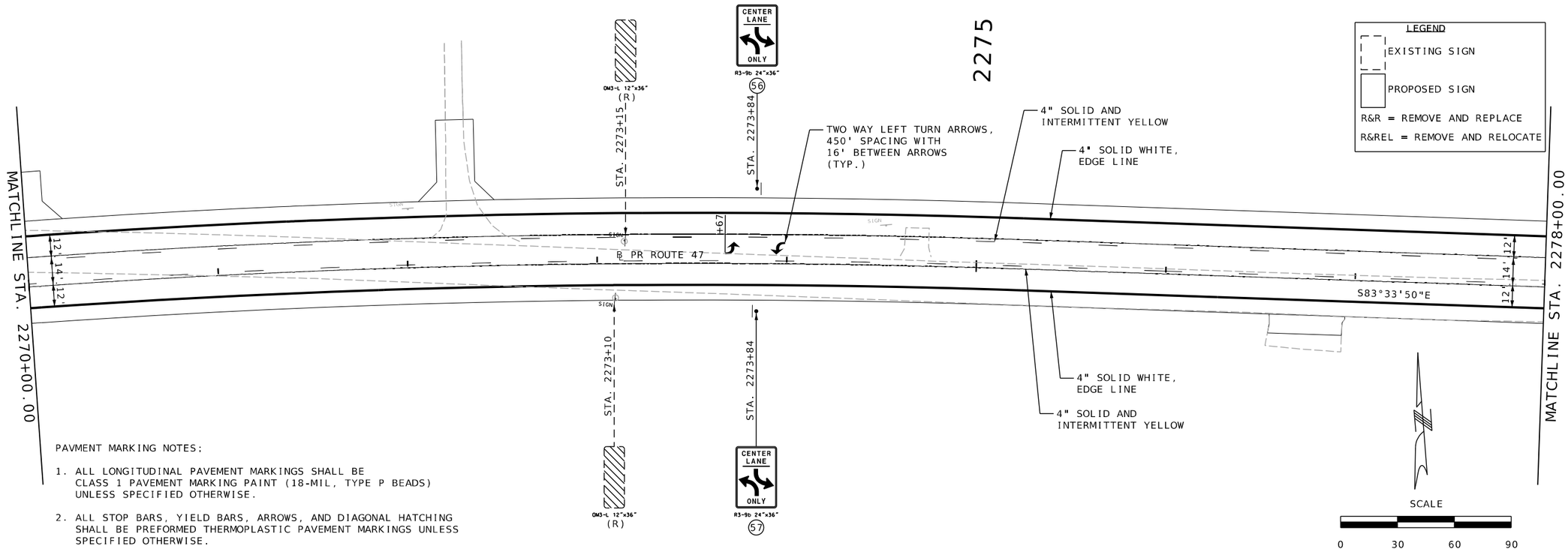

PAVMENT MARKING NOTES:

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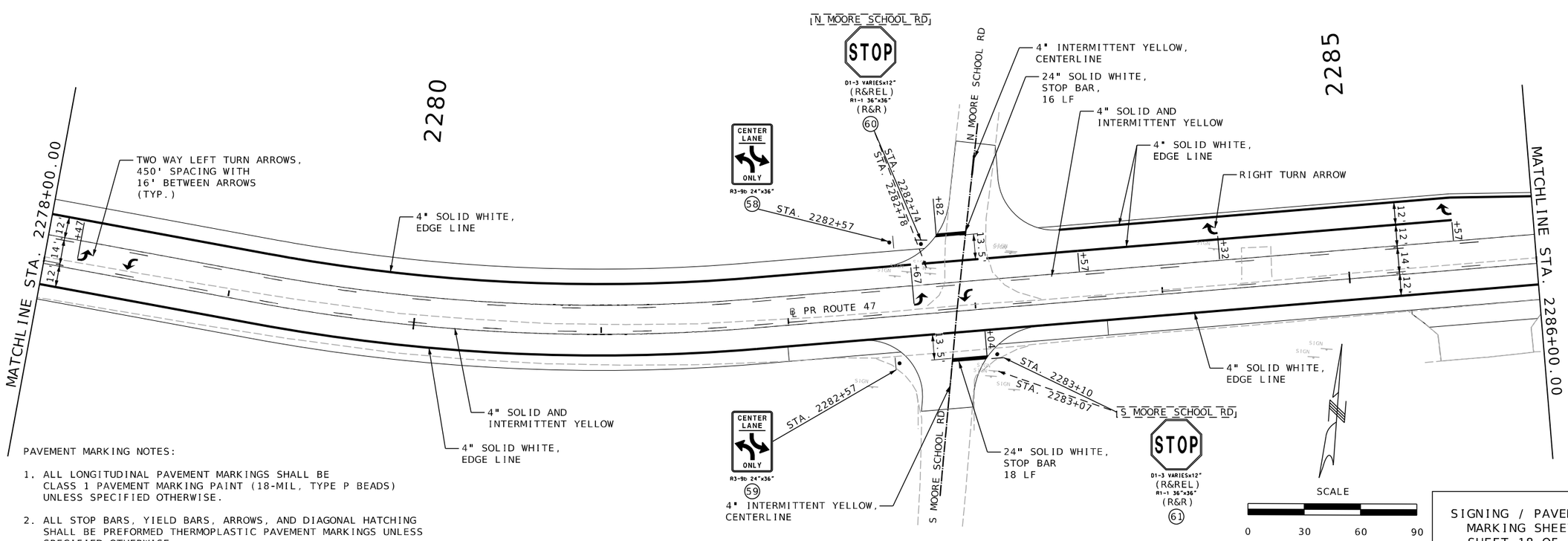

PAVEMENT MARKING NOTES:

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SIGNING / PAVEMENT MARKING SHEETS
SHEET 18 OF 30

STATE OF MISSOURI
JEFFREY R. RENSING
NUMBER PE-2006012376
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

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

DATE PREPARED	
8/26/2025	
ROUTE 47	STATE MO
DISTRICT NE	SHEET NO. 222
COUNTY LINCOLN	
JOB NO. JNE0003	
CONTRACT ID. .	
PROJECT NO. .	
BRIDGE NO. .	

DESCRIPTION	DATE
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MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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

OATES ASSOCIATES

Collinsville
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Collinsville, IL 62234
618.345.2200

Belleville
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Belleville, IL 62220
618.416.4888

St. Louis
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St. Louis, MO 63101
314.588.8381

St. Charles
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St. Charles, MO 63301
636.493.6277

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MISSOURI DESIGN FIRM PE-001166

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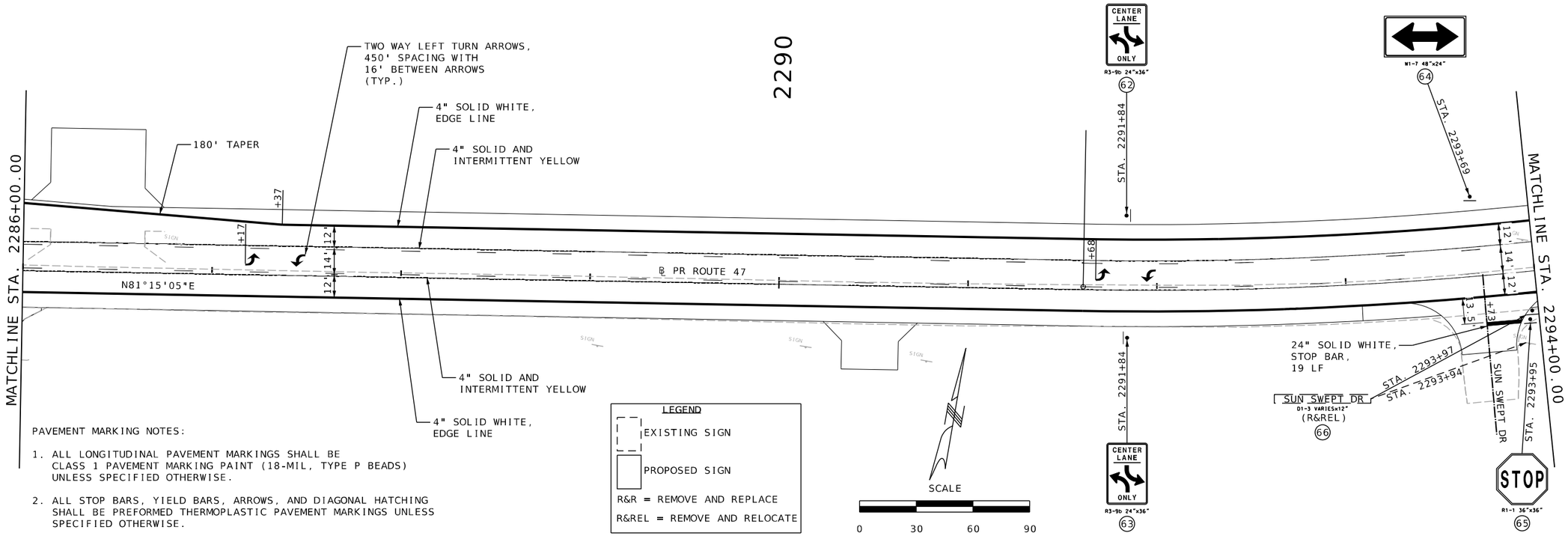

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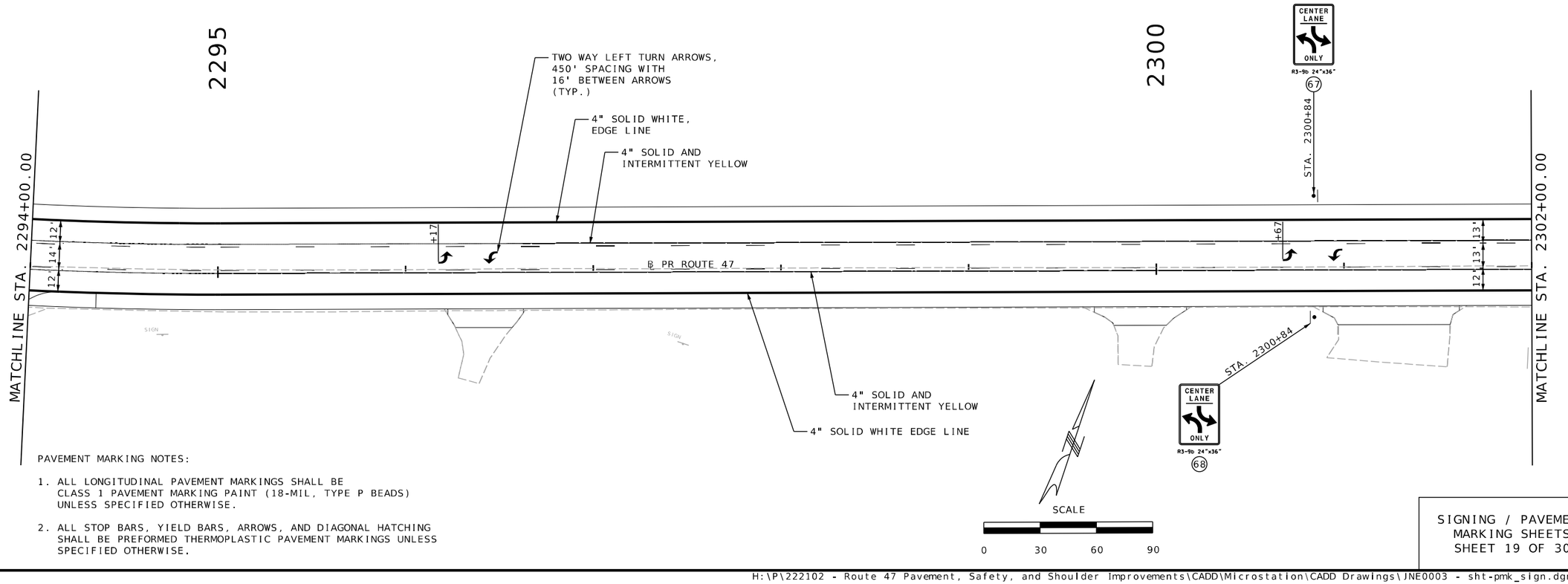

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SIGNING / PAVEMENT MARKING SHEETS
SHEET 19 OF 30

STATE OF MISSOURI
JEFFREY R. RENSING
NUMBER PE-2006012376
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED 8/26/2025

ROUTE	STATE
47	MO
DISTRICT	SHEET NO.
NE	223

COUNTY: LINCOLN
JOB NO.: JNE0003
CONTRACT ID.:
PROJECT NO.:
BRIDGE NO.:

DESCRIPTION	DATE

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

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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

OATES ASSOCIATES

Collinsville
100 Lamter Court, Suite 1
Collinsville, IL 62234
618.345.2200

Belleville
1 South Church, Suite 200
Belleville, IL 62220
618.416.4868

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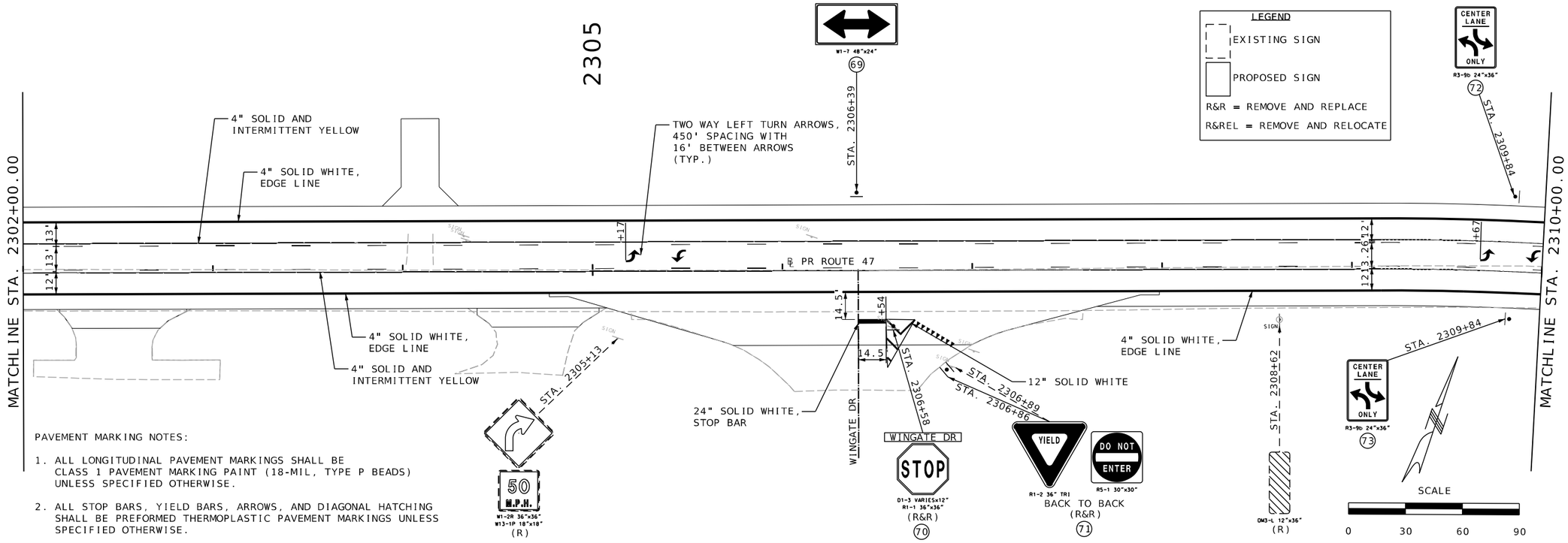
636.493.6277

www.oatesassociates.com

MISSOURI DESIGN FIRM PE-001166



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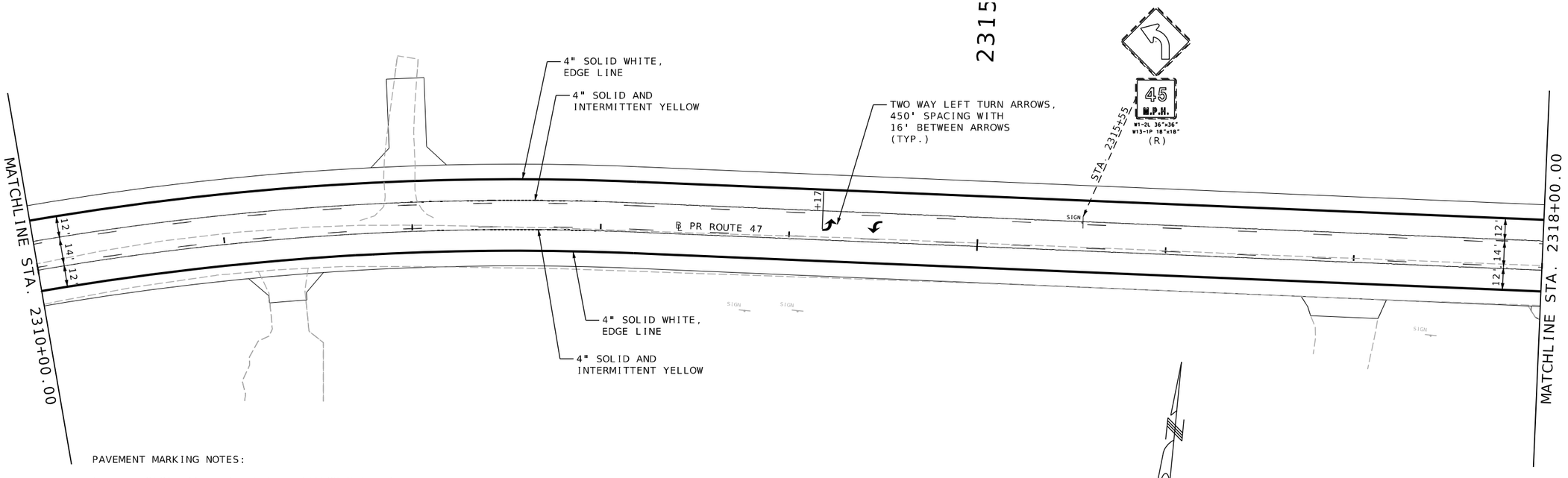

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SIGNING / PAVEMENT MARKING SHEETS
SHEET 20 OF 30

STATE OF MISSOURI
JEFFREY R. RENSING
NUMBER PE-2006012376
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

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

DATE PREPARED 8/26/2025

ROUTE	STATE
47	MO
DISTRICT	SHEET NO.
NE	224

COUNTY: LINCOLN
JOB NO.: JNE0003
CONTRACT ID.:
PROJECT NO.:
BRIDGE NO.:

DESCRIPTION	DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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

OATES ASSOCIATES

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Collinsville, IL 62234
618.345.2300

Belleville
1 South Church, Suite 200
Belleville, IL 62220
618.416.4868

St. Louis
720 Olive, Suite 700
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314.588.8381

St. Charles
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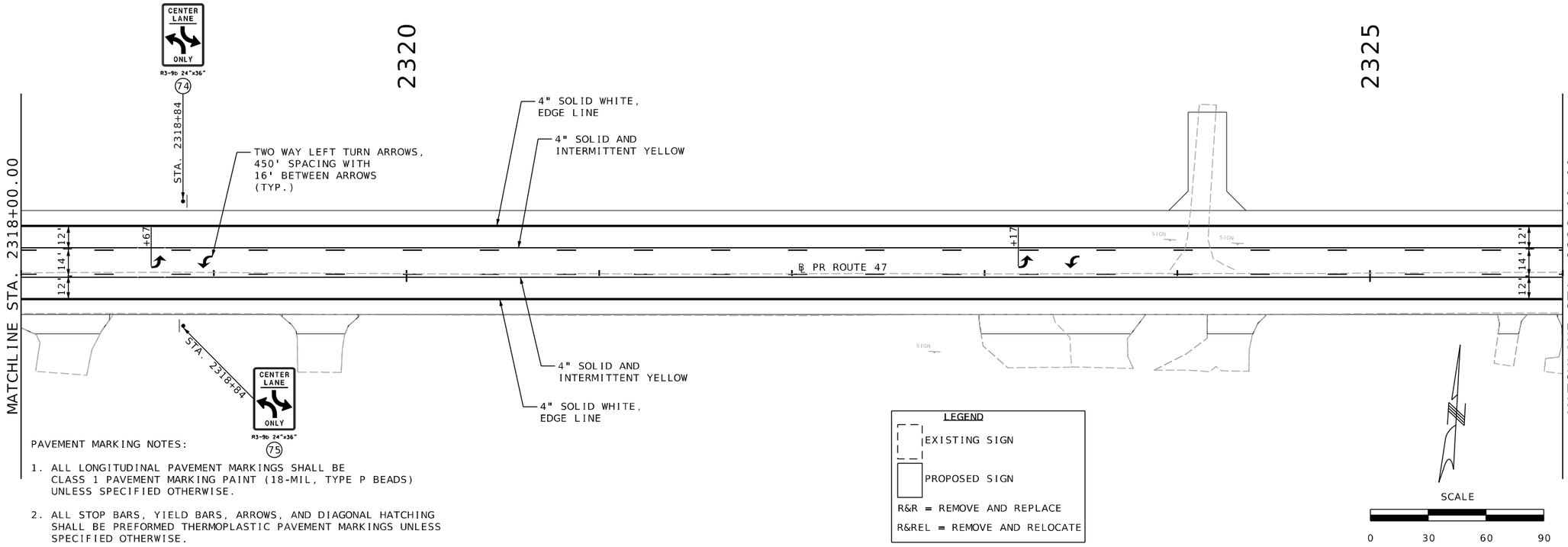
St. Charles, MO 63301
636.493.6277

www.oatesassociates.com

MISSOURI DESIGN FIRM PE-001166

H:\P\222102 - Route 47 Pavement, Safety, and Shoulder Improvements\CADD\Microstation\CADD Drawings\JNE0003 - sht-pmk_sign.dgn 10:43:17 AM 8/26/2025



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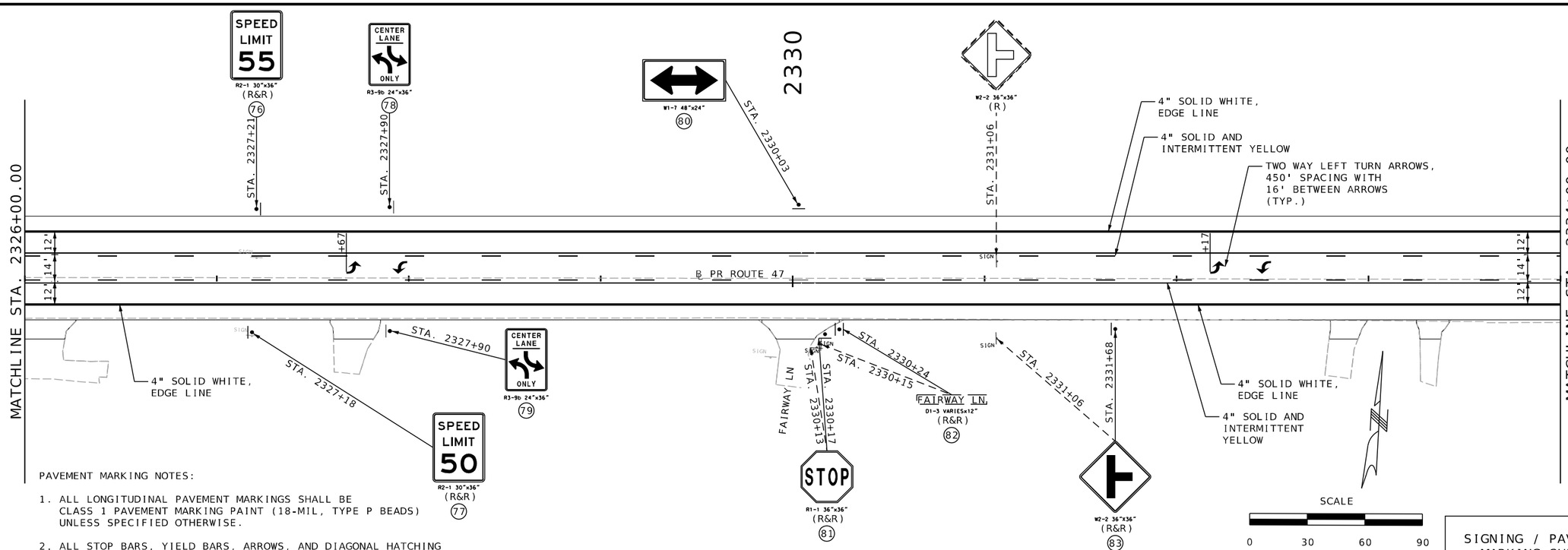

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SIGNING / PAVEMENT MARKING SHEETS
SHEET 21 OF 30

STATE OF MISSOURI
JEFFREY R. RENSING
NUMBER PE-2006012376
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

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

DATE PREPARED	
8/26/2025	
ROUTE	STATE
47	MO
DISTRICT	SHEET NO.
NE	225

COUNTY: LINCOLN
JOB NO.: JNE0003
CONTRACT ID.: .
PROJECT NO.: .
BRIDGE NO.: .

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

OATES ASSOCIATES
Collinsville
100 Lamter Court, Suite 1
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618.416.4688
St. Louis
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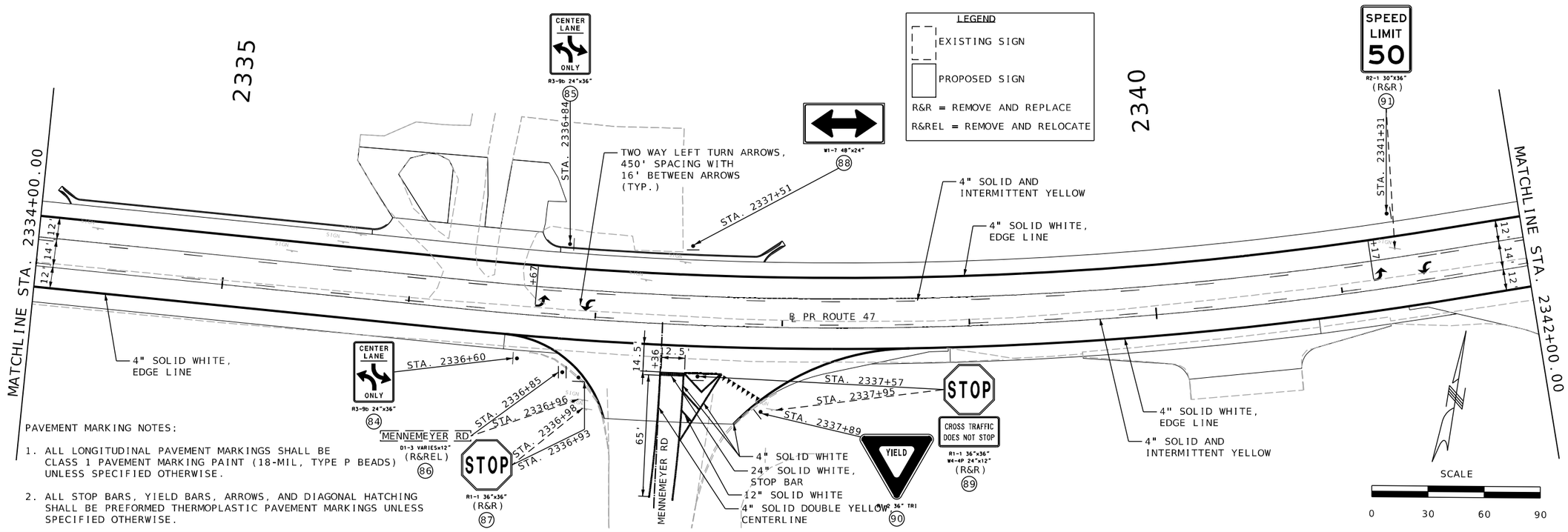
www.oatesassociates.com
MISSOURI DESIGN FIRM PE-001166



STATE OF MISSOURI
JEFFREY R. RENSING
NUMBER PE-2006012376
PROFESSIONAL ENGINEER

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DATE PREPARED	
8/26/2025	
ROUTE	STATE
47	MO
DISTRICT	SHEET NO.
NE	226
COUNTY	
LINCOLN	
JOB NO.	
JNE0003	
CONTRACT ID.	
.	
PROJECT NO.	
.	
BRIDGE NO.	
.	

DATE	DESCRIPTION
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MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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

OATES ASSOCIATES

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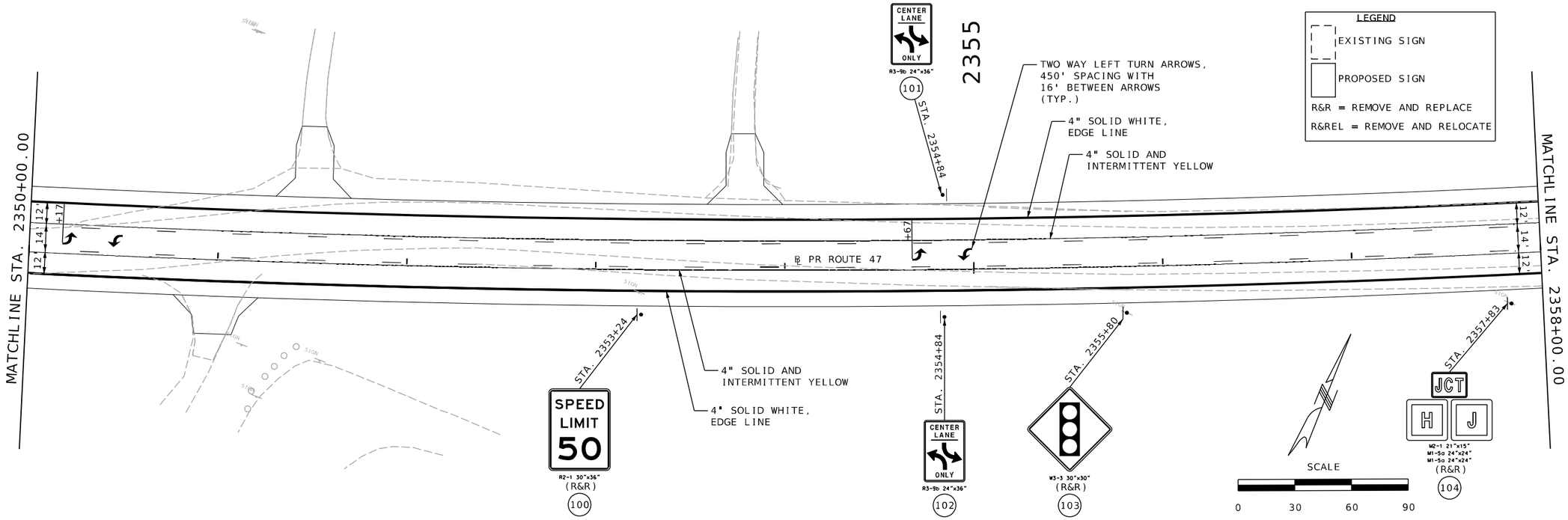
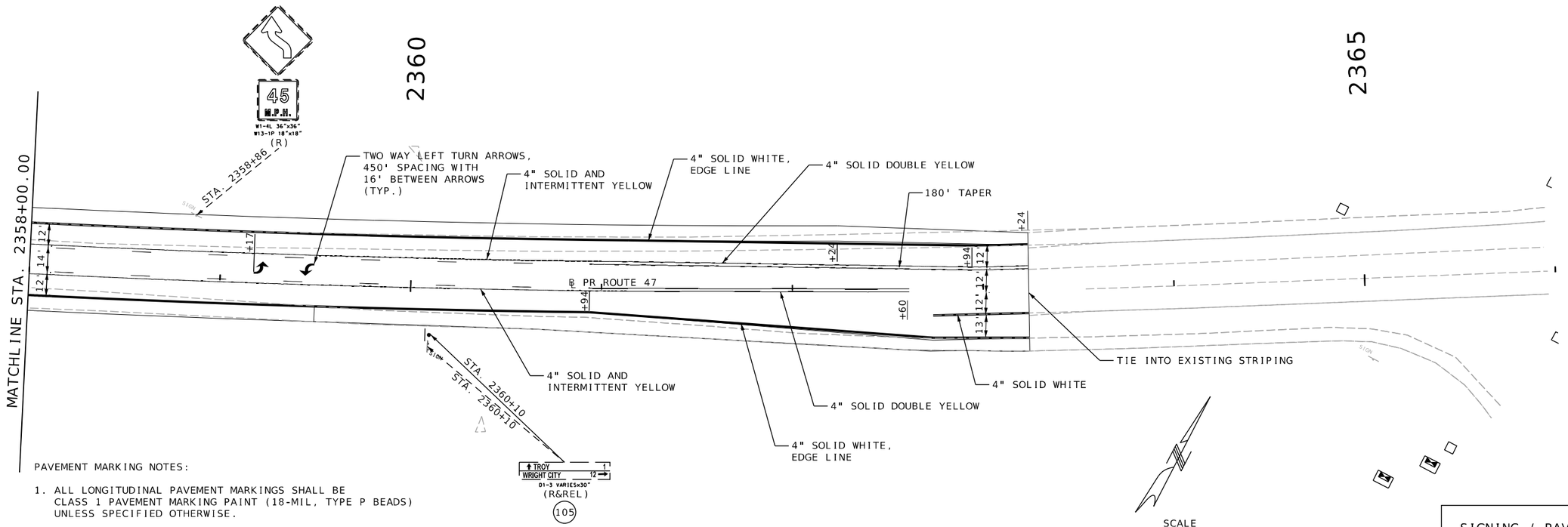
MISSOURI DESIGN FIRM PE-001166

SIGNING / PAVEMENT MARKING SHEETS
SHEET 22 OF 30





PAVEMENT MARKING NOTES:

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SIGNING / PAVEMENT MARKING SHEETS
SHEET 23 OF 30

STATE OF MISSOURI
JEFFREY R. RENSING
NUMBER PE-2006012376
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

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

DATE PREPARED	
8/26/2025	
ROUTE	STATE
47	MO
DISTRICT	SHEET NO.
NE	227
COUNTY	
LINCOLN	
JOB NO.	
JNE0003	
CONTRACT ID.	
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PROJECT NO.	
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BRIDGE NO.	
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DESCRIPTION	DATE
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MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

105 WEST CAPITOL
JEFFERSON CITY, MO 65102
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618.345.2200

Belleville
1 South Church, Suite 200
Belleville, IL 62220
618.416.4868

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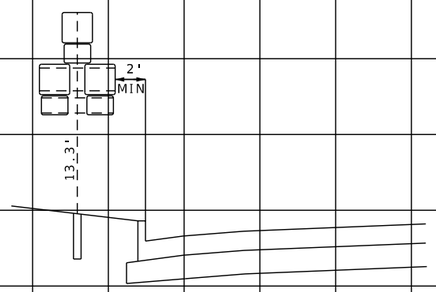
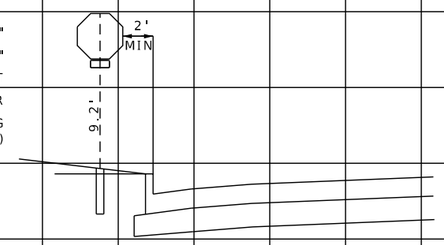
MISSOURI DESIGN FIRM PE-001166

1 - 24"x24"
1 - 21"X15"
2 - 24"x24"
2 - 21"X15"
1 - 2.5" PSST
1 - 3" 7 GA ANCHOR
1 - 2.25" INSERT
4 - 2"x3/8" BACKING BARS
1 - BREAKAWAY ASSEMBLY
1 - CONCRETE FOOTING (0.10 C.Y.)



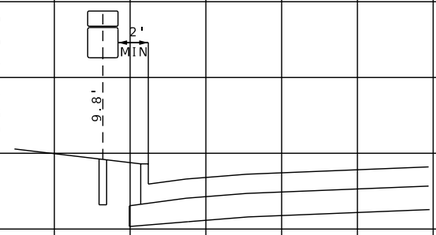
PROPOSED SIGN DETAIL
① - STA. 2000+25

1 - 36"x36"
1 - 18"x6"
1 - 2" PSST
1 - 2.5" 7 GA ANCHOR
1 - CONCRETE FOOTING (0.10 C.Y.)



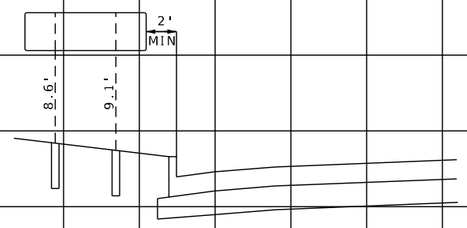
PROPOSED SIGN DETAIL
② - STA. 2000+25
③ - STA. 2000+29

1 - 24"x12"
1 - 24"x24"
1 - 2" PSST
1 - 2.5" 7 GA ANCHOR
1 - CONCRETE FOOTING (0.10 C.Y.)



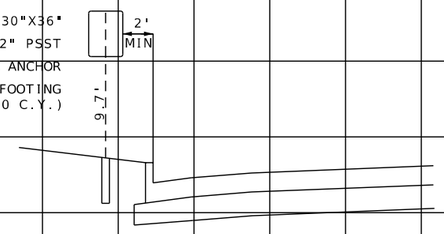
PROPOSED SIGN DETAIL
④ - STA. 2001+76

1 - VARIESx30"
2 - 2" PSST
2 - 2.5" 7 GA ANCHOR
2 - CONCRETE FOOTING (0.10 C.Y. EA)



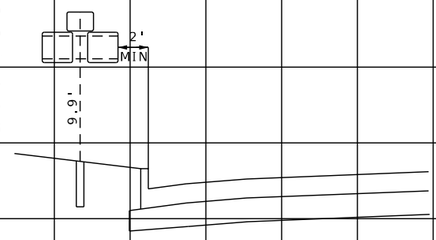
PROPOSED SIGN DETAIL
⑤ - STA. 2002+12

1 - 30"X36"
1 - 2" PSST
1 - 2.5" 7 GA ANCHOR
1 - CONCRETE FOOTING (0.10 C.Y.)



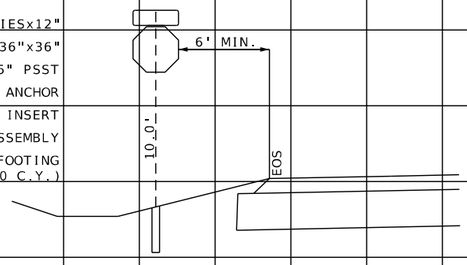
PROPOSED SIGN DETAIL
⑥ - STA. 2003+23
⑦ - STA. 2006+49
⑨ - STA. 2019+61
⑩ - STA. 2019+61

1 - 21"X15"
2 - 24"x24"
1 - 2.5" PSST
1 - 3" 7 GA ANCHOR
2 - 2"x3/8" BACKING BARS
1 - CONCRETE FOOTING (0.10 C.Y.)



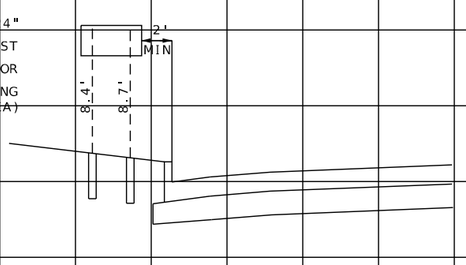
PROPOSED SIGN DETAIL
⑧ - STA. 2010+16

1 - VARIESx12"
1 - 36"x36"
1 - 2.5" PSST
1 - 3" 7 GA ANCHOR
1 - 2.25" INSERT
1 - BREAKAWAY ASSEMBLY
1 - CONCRETE FOOTING (0.10 C.Y.)



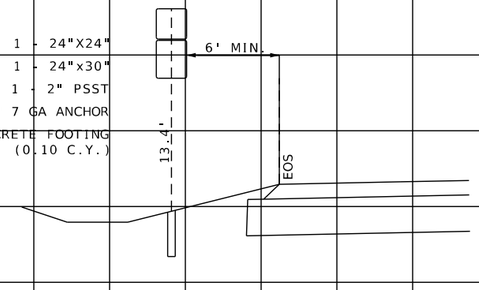
PROPOSED SIGN DETAIL
⑪ - STA. 2027+36
⑳ - STA. 2069+00
㉔ - STA. 2100+16
㉕ - STA. 2120+32
㉗ - STA. 2127+75
㉘ - STA. 2166+09
㊿ - STA. 2282+74
(61) - STA. 2283+10
(70) - STA. 2306+58

1 - 48"X24"
2 - 2" PSST
2 - 2.5" 7 GA ANCHOR
2 - CONCRETE FOOTING (0.10 C.Y. EA)



PROPOSED SIGN DETAIL
⑫ - STA. 2027+56

1 - 24"X24"
1 - 24"x30"
1 - 2" PSST
1 - 2.5" 7 GA ANCHOR
1 - CONCRETE FOOTING (0.10 C.Y.)



PROPOSED SIGN DETAIL
⑬ - STA. 2027+79

CONCRETE FOOTING SHOWN FOR INFORMATION PURPOSE ONLY, NO DIRECT PAY, COST INCLUDED IN CONCRETE GUAGE ANCHOR.

5

SIGNING / PAVEMENT MARKING SHEETS
SHEET 24 OF 30

STATE OF MISSOURI
JEFFREY R. RENSING
NUMBER PE-2006012376
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED 8/26/2025
ROUTE 47 | STATE MO
DISTRICT NE | SHEET NO. 228
COUNTY LINCOLN
JOB NO. JNE0003
CONTRACT ID. .
PROJECT NO. .
BRIDGE NO. .

DESCRIPTION	DATE
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MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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

OATES ASSOCIATES

St. Louis
720 Olive, Suite 700
St. Louis, MO 63101
314.588.8381

St. Charles
820 South Main, Suite 309
St. Charles, MO 63301
636.493.6277

Collinsville
100 Lamer Court, Suite 1
Collinsville, IL 62234
618.345.2300

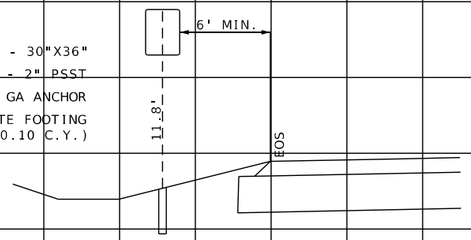
Belleville
1 South Church, Suite 200
Belleville, IL 62220
618.416.4868

www.oatesassociates.com

MISSOURI DESIGN FIRM PE-001166

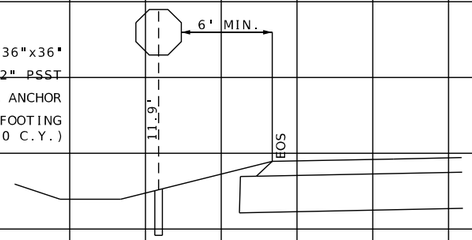
IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

H:\P\222102 - Route 47 Pavement, Safety, and Shoulder Improvements\CADD\Microstation\CADD Drawings\JNE0003 - sht-sign xs.dgn 10:52:54 AM 8/26/2025



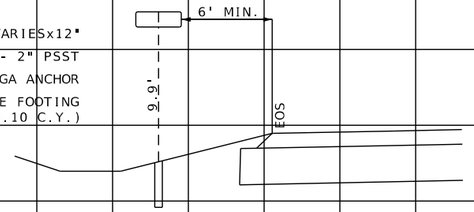
PROPOSED SIGN DETAIL

(14) - STA. 2031+95 (77) - STA. 2327+18
(15) - STA. 2031+95 (91) - STA. 2341+31
(76) - STA. 2327+21 (100) - STA. 2353+24



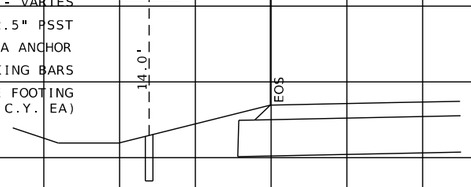
PROPOSED SIGN DETAIL

(16) - STA. 2039+74 (52) - STA. 2263+88
(31) - STA. 2180+79 (65) - STA. 2293+95
(36) - STA. 2227+72 (81) - STA. 2330+17
(44) - STA. 2240+50 (87) - STA. 2336+93
(46) - STA. 2242+83



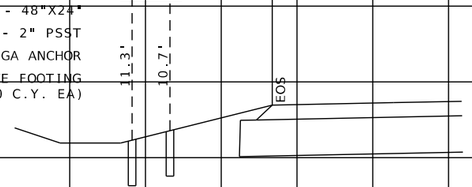
PROPOSED SIGN DETAIL

(17) - STA. 2040+38 (53) - STA. 2264+59
(19) - STA. 2068+61 (66) - STA. 2293+97
(38) - STA. 2228+39 (82) - STA. 2330+24
(45) - STA. 2241+11 (86) - STA. 2336+85
(47) - STA. 2242+91 (96) - STA. 2344+21



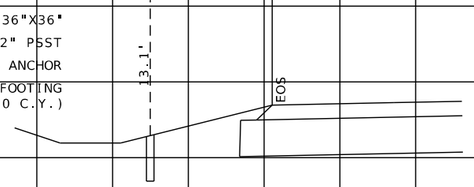
PROPOSED SIGN DETAIL

(18) - STA. 2067+46



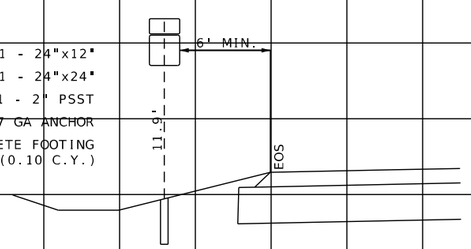
PROPOSED SIGN DETAIL

(21) - STA. 2069+26 (64) - STA. 2293+69
(23) - STA. 2099+86 (69) - STA. 2306+39
(26) - STA. 2120+60 (80) - STA. 2330+03
(37) - STA. 2228+04 (88) - STA. 2337+51



PROPOSED SIGN DETAIL

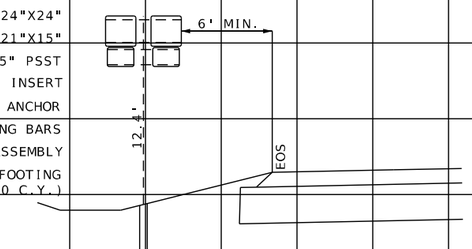
(22) - STA. 2074+85 (83) - STA. 2331+68
(41) - STA. 2235+00 (99) - STA. 2347+52
(49A) - STA. 2249+00



PROPOSED SIGN DETAIL

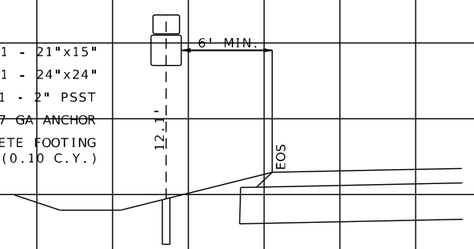
(29) - STA. 2180+00
(33) - STA. 2183+02

CONCRETE FOOTING SHOWN FOR INFORMATION PURPOSE ONLY, NO DIRECT PAY, COST INCLUDED IN CONCRETE GUAGE ANCHOR.



PROPOSED SIGN DETAIL

(30) - STA. 2180+34
(34) - STA. 2186+77



PROPOSED SIGN DETAIL

(32) - STA. 2181+64
(35) - STA. 2191+79

5

SIGNING / PAVEMENT MARKING SHEETS
SHEET 25 OF 30

STATE OF MISSOURI
JEFFREY R. RENSING
NUMBER PE-2006012376
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED 8/26/2025
ROUTE 47 | STATE MO
DISTRICT NE | SHEET NO. 229
COUNTY LINCOLN
JOB NO. JNE0003
CONTRACT ID. .
PROJECT NO. .
BRIDGE NO. .

DESCRIPTION | DATE

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

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

OATES ASSOCIATES

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St. Charles, MO 63301
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Collinsville
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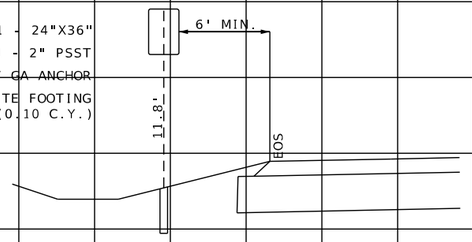
Collinsville, IL 62234
618.345.2200

Belleville
1 South Church, Suite 200
Belleville, IL 62220
618.416.4888

www.oatesassociates.com

MISSOURI DESIGN FIRM PE-001166

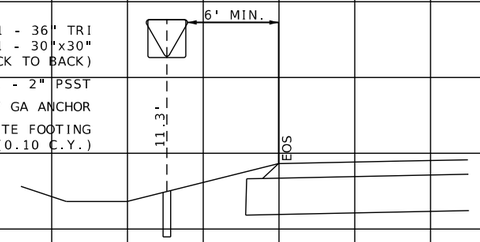
1 - 24"X36"
1 - 2" PSST
1 - 2.5" 7 GA ANCHOR
1 - CONCRETE FOOTING (0.10 C.Y.)



PROPOSED SIGN DETAIL

(40) - STA. 2228+84
(42) - STA. 2237+84
(43) - STA. 2237+84
(48) - STA. 2246+84
(49) - STA. 2246+84
(50) - STA. 2255+84
(51) - STA. 2255+84
(54) - STA. 2264+84
(55) - STA. 2264+84
(56) - STA. 2273+84
(57) - STA. 2273+84
(58) - STA. 2282+57
(59) - STA. 2282+57
(62) - STA. 2291+84
(63) - STA. 2291+84
(67) - STA. 2300+84
(68) - STA. 2300+84
(72) - STA. 2309+84
(73) - STA. 2309+84
(74) - STA. 2318+84
(75) - STA. 2318+84
(78) - STA. 2327+90
(79) - STA. 2327+90
(84) - STA. 2336+60
(85) - STA. 2336+84
(97) - STA. 2345+84
(98) - STA. 2345+84
(101) - STA. 2354+84
(102) - STA. 2354+84

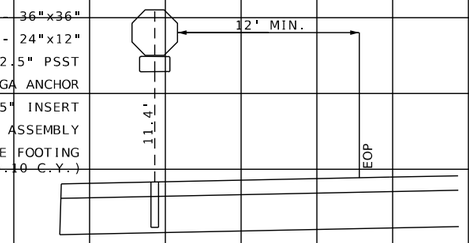
1 - 36' TRI
1 - 30'x30" (BACK TO BACK)
1 - 2" PSST
1 - 2.5" 7 GA ANCHOR
1 - CONCRETE FOOTING (0.10 C.Y.)



PROPOSED SIGN DETAIL

(71) - STA. 2306+86
(93) - STA. 2342+97

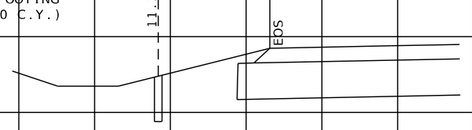
1 - 36"x36"
1 - 24"x12"
1 - 2.5" PSST
1 - 3" 7 GA ANCHOR
1 - 2.25" INSERT
1 - BREAKAWAY ASSEMBLY
1 - CONCRETE FOOTING (0.10 C.Y.)



PROPOSED SIGN DETAIL

(89) - STA. 2337+57

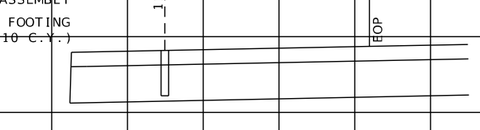
1 - 36" TRI
1 - 2" PSST
1 - 2.5" 7 GA ANCHOR
1 - CONCRETE FOOTING (0.10 C.Y.)



PROPOSED SIGN DETAIL

(90) - STA. 2337+89
(94) - STA. 2343+23

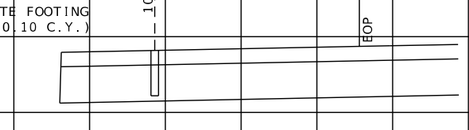
1 - VARIESx12"
1 - 36"x36"
1 - 2.5" PSST
1 - 3" 7 GA ANCHOR
1 - 2.25" INSERT
1 - BREAKAWAY ASSEMBLY
1 - CONCRETE FOOTING (0.10 C.Y.)



PROPOSED SIGN DETAIL

(92) - STA. 2342+68

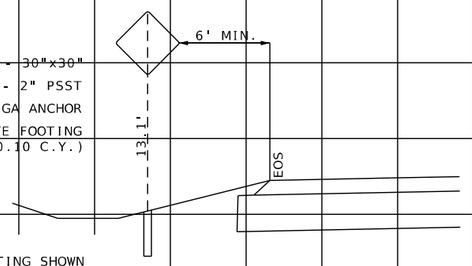
1 - 36"x36"
1 - 2" PSST
1 - 2.5" 7 GA ANCHOR
1 - BREAKAWAY ASSEMBLY
1 - CONCRETE FOOTING (0.10 C.Y.)



PROPOSED SIGN DETAIL

(95) - STA. 2343+55

1 - 30"x30"
1 - 2" PSST
1 - 2.5" 7 GA ANCHOR
1 - CONCRETE FOOTING (0.10 C.Y.)

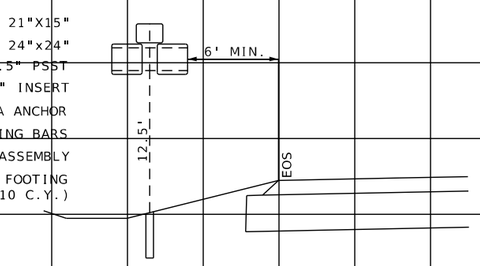


CONCRETE FOOTING SHOWN FOR INFORMATION PURPOSE ONLY, NO DIRECT PAY, COST INCLUDED IN CONCRETE GUAGE ANCHOR.

PROPOSED SIGN DETAIL

(103) - STA. 2355+80

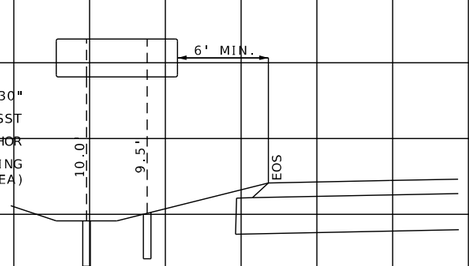
1 - 21"X15"
2 - 24"x24"
1 - 2.5" PSST
1 - 2.25" INSERT
1 - 3" 7 GA ANCHOR
2 - 2"x3/8" BACKING BARS
1 - BREAKAWAY ASSEMBLY
1 - CONCRETE FOOTING (0.10 C.Y.)



PROPOSED SIGN DETAIL

(104) - STA. 2357+83

1 - VARIESx30"
2 - 2" PSST
2 - 2.5" 7 GA ANCHOR
2 - CONCRETE FOOTING (0.10 C.Y. EA)



PROPOSED SIGN DETAIL

(105) - STA. 2360+10

SIGNING / PAVEMENT MARKING SHEETS
SHEET 26 OF 30

STATE OF MISSOURI
JEFFREY R. RENSING
NUMBER PE-2006012376
PROFESSIONAL ENGINEER

"THIS SHEET" HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED 8/26/2025

ROUTE	STATE
47	MO
DISTRICT	SHEET NO.
NE	230

COUNTY: LINCOLN
JOB NO.: JNE0003
CONTRACT ID.:
PROJECT NO.:
BRIDGE NO.:

DESCRIPTION	DATE
.	.

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

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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

OATES ASSOCIATES

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St. Louis
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St. Louis, MO 63101
314.588.8881

St. Charles
820 South Main, Suite 309
St. Charles, MO 63301
636.493.6277

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MISSOURI DESIGN FIRM PE-001166

SIGNS						CONCRETE FOOTINGS EMBEDDED	STRUCTURAL STEEL POSTS*						PIPE POSTS*					BACKING BARS**				U-CHANNEL POST	PERFORATED SQUARE STEEL TUBE											EFFECTIVE: 07-01-2024
902 SIGNAL SIGNS TABULATED ON D-37A SHEET																						2-INCH POST						2.5-INCH POST					BREAK-AWAY ASSEMBLY	REMARKS AND OTHER REQUIRED ITEMS
SIGN NO.	SIGN SIZE	STATION OR LOG MILE	HORIZ CLEAR IF NOT STD	LOCATION	SIGN DTL SHT NO.	ITEM NO. 9031010	POST DES NO.	POST NO. 1	POST NO. 2	POST NO. 3	LBS PER FT	TOTAL ITEM NO. 9031210	PIPE SIZE	POST NO. 1	POST NO. 2	LBS PER FT	TOTAL ITEM NO. 9031220	2" X 3/8" BARS AT 2.55 LBS/FT NO.	LGTH	TOTAL	TOTAL	ITEM NO. 9031250A	POST NO. 1	POST NO. 2	TOTAL ITEM NO. 9031270A	ANCHORS DRIVEN 12 GA. ITEM NO. 9031271A	ANCHORS DRIVEN 7 GA. ITEM NO. 9031273A	ANCHORS CONCRETE 7 GA. ITEM NO. 9031274	POST NO. 1	POST NO. 2	TOTAL ITEM NO. 9031280	2.25" INSERT (6 FT) ITEM NO. 9031272A	ANCHORS DRIVEN 7 GA. ITEM NO. 9031281A	ANCHORS CONCRETE 7 GA. ITEM NO. 9031285	ITEM NO. 9031241	
						CY		LF	LF	LF		LBS	IN	LF	LF		LBS	EACH	IN.	LF	LBS	LF	LF	LF	LF	EACH	EACH	EACH			EACH	EACH	EACH	EACH	EACH	
1	ASSEMBLY	2000+25		LT														4	50	16.7	43														NEW SIGNS ON NEW POST
2	ASSEMBLY	2000+25		RT																			16		16			1							NEW SIGNS ON NEW POST
3	ASSEMBLY	2000+29		LT																			16		16			1							NEW SIGNS ON NEW POST
4	ASSEMBLY	2001+76		RT																			16		16			1							NEW SIGNS ON NEW POST
5	LOCATION	2002+12		LT																			16	16	32			2							EX SIGN ON NEW POST
6	30"X36"	2003+23		RT																			16		16			1							NEW SIGN ON NEW POST
7	30"X36"	2006+49		LT																			16		16			1							NEW SIGN ON NEW POST
8	ASSEMBLY	2010+16		LT														2	50	8.3	22									16		16		1		NEW SIGNS ON NEW POST
9	30"X36"	2019+61		LT																			16		16			1							NEW SIGN ON NEW POST
10	30"X36"	2019+61		RT																			16		16			1							NEW SIGN ON NEW POST
11	ASSEMBLY	2027+36		LT																									16		16	1		1	1	EX/NEW SIGN ON NEW POST
12	48"X24"	2027+56		RT																			16	16	32			2							NEW SIGN ON NEW POST
13	ASSEMBLY	2027+79		LT																			16		16			1							NEW SIGNS ON NEW POST
14	30"X36"	2031+95		LT																			16		16			1							NEW SIGN ON NEW POST
15	30"X36"	2031+95		RT																			16		16			1							NEW SIGN ON NEW POST
16	36"X36"	2039+74		LT																			16		16			1							NEW SIGN ON NEW POST
17	COUNTY	2040+38		LT																			16		16			1							EX SIGN ON NEW POST
18	ASSEMBLY	2067+46		LT														2	50	8.3	22													1		EX/NEW SIGN ON NEW POST
19	COUNTY	2068+61		RT																			16		16			1							EX SIGN ON NEW POST
20	ASSEMBLY	2069+00		LT																									16		16	1		1	1	EX/NEW SIGN ON NEW POST
21	48"X24"	2069+26		RT																			16	16	32			2							NEW SIGN ON NEW POST
22	36"X36'	2074+85		LT																			16		16			1							NEW SIGNS ON NEW POST
23	48"X24"	2099+86		LT																			16	16	32			2							NEW SIGN ON NEW POST
24	ASSEMBLY	2100+16		RT																									16		16	1		1	1	EX/NEW SIGN ON NEW POST
25	ASSEMBLY	2120+32		LT																									16		16	1		1	1	EX/NEW SIGN ON NEW POST
26	48"X24"	2120+60		RT																			16	16	32			2							NEW SIGN ON NEW POST
27	ASSEMBLY	2127+75		RT																									16		16	1		1	1	EX/NEW SIGN ON NEW POST
28	ASSEMBLY	2166+09		RT																									16		16	1		1	1	EX/NEW SIGN ON NEW POST
29	ASSEMBLY	2180+00		LT																			16		16			1							NEW SIGNS ON NEW POST
30	ASSEMBLY	2180+34		RT														4	50	16.7	43									16		16	1		1	NEW SIGNS ON NEW POST
31	36"X36"	2180+79		LT																			16		16			1							NEW SIGN ON NEW POST
32	ASSEMBLY	2181+64		RT																			16		16			1							NEW SIGNS ON NEW POST
33	ASSEMBLY	2183+02		RT																			16		16			1							NEW SIGNS ON NEW POST
34	ASSEMBLY	2186+77		LT														4	50	16.7	43													1		NEW SIGNS ON NEW POST
35	ASSEMBLY	2191+79		LT																			16		16			1							NEW SIGNS ON NEW POST
36	36"X36"	2227+72		LT																			16		16			1							NEW SIGN ON NEW POST
37	48"X24"	2228+04		RT																			16	16	32			2							NEW SIGN ON NEW POST
38	COUNTY	2228+39		LT																			16		16			1							EX SIGN ON NEW POST
40	24"X36"	2228+84		RT																			16		16			1							NEW SIGN ON NEW POST
41	36"X36"	2235+00		RT																			16		16			1							NEW SIGN ON NEW POST
42	24"X36"	2237+84		LT																			16		16			1							NEW SIGN ON NEW POST
43	24"X36"	2237+84		RT																			16		16			1							NEW SIGN ON NEW POST
44	36"x36"	2240+50		LT																			16		16			1							NEW SIGN ON NEW POST
45	COUNTY	2241+11		LT																			16		16			1							EX SIGN ON NEW POST
46	36"X36"	2242+83		RT																			16		16			1							NEW SIGN ON NEW POST
47	COUNTY	2242+91		RT																			16		16			1							EX SIGN ON NEW POST
48	24"X36"	2246+84		LT																			16		16			1							NEW SIGN ON NEW POST
49	24"X36"	2246+84		RT																			16		16			1							NEW SIGN ON NEW POST
49A	36"X36"	2249+00		LT																			16		16			1							NEW SIGN ON NEW POST
50	24"X36"	2255+84		LT																			16		16			1							NEW SIGN ON NEW POST
51	24"X36"	2255+84		RT																			16		16			1							NEW SIGN ON NEW POST
52	36"X36"	2263+88		LT																			16		16			1							NEW SIGN ON NEW POST
53	COUNTY	2264+59		LT																			16		16			1							EX SIGN ON NEW POST
54	24"X36"	2264+84		RT																			16		16			1							NEW SIGN ON NEW POST
55	24"X36"	2264+84		LT																			16		16			1							NEW SIGN ON NEW POST
56	24"X36"	2273+84		LT																			16		16			1							NEW SIGN ON NEW POST
57	24"X36"	2273+84		RT																			16		16			1							NEW SIGN ON NEW POST
58	24"X36"	2282+57		LT																			16		16			1							NEW SIGN ON NEW POST
59	24"X36"	2282+57		RT																			16		16			1							NEW SIGN ON NEW POST
60	ASSEMBLY	2282+74		LT																									16		16	1		1	1	EX/NEW SIGN ON NEW POST
	SUBTOTAL(1 OF 2)																				173		16	16	864			54			192	10		12	10	PHASE 1 SUBTOTAL

*BREAKAWAY ASSEMBLY IS INCIDENTAL FOR STRUCTURAL STEEL AND PIPE POSTS.
**BACKING BARS ARE TOTALED WITH STRUCTURAL STEEL OR PIPE POSTS.

ROUND PIPE POST AND FOOTING DATA TABLE

NOM.SIZE (IN.)	WEIGHT LBS/FT	WEIGHT LBS/IN	STUB LENGTH	FOOTING DIA.	FOOTING DEPTH	CONCRETE C.Y.
2½	5.79	0.48	4'- 3½"	12"	4~6"	0.13
4	10.79	0.90	5'- 3½"	18"	5~6"	0.36

STRUCTURAL STEEL POST AND FOOTING DATA TABLE

POST DES. NO.	POST NOM. SIZE	POST WEIGHT LBS/FT	POST WEIGHT LBS/IN	POST STUB LENGTH	FOOTING DIA.	FOOTING LEVEL GROUND DEPTH	FOOTING LEVEL GROUND C.Y.	FOOTING 6:1 GRADE DEPTH	FOOTING 6:1 GRADE C.Y.	FOOTING 4:1 GRADE DEPTH	FOOTING 4:1 GRADE C.Y.	FOOTING 3:1 OR 2:1 GRADE DEPTH	FOOTING 3:1 OR 2:1 GRADE C.Y.
1	W6	9.0	0.75	3'-0"	15"	3'-0"	0.14	3'-2"	0.15	3'-3"	0.16	3'-6"	0.17
2	W6	15.0	1.25	4'-0"	24"	4'-0"	0.47	4'-2"	0.50	4'-3"	0.51	4'-6"	0.54
3	W8	18.0	1.50	4'-6"	28"	4'-6"	0.71	4'-8"	0.73	4'-9"	0.74	5'-0"	0.78
4	W10	22.0	1.83	5'-0"	36"	5'-0"	1.31	5'-2"	1.36	5'-3"	1.39	5'-6"	1.45
5	W10	26.0	2.17	5'-0"	36"	5'-0"	1.31	5'-3"	1.37	5'-5"	1.43	5'-9"	1.52
6	W12	35.0	2.92	5'-6"	36"	5'-6"	1.44	5'-9"	1.52	5'-11"	1.56	6'-3"	1.65

D-29

SIGNING / PAVEMENT MARKING SHEETS
SHEET 27 OF 30

STATE OF MISSOURI
JEFFREY R. RENSING
NUMBER PE-2006012376
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED 8/26/2025
ROUTE 47 | STATE MO
DISTRICT NE | SHEET NO. 231
COUNTY LINCOLN
JOB NO. JNE0003
CONTRACT ID. .
PROJECT NO. .
BRIDGE NO. .

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

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

OATES ASSOCIATES
MISSOURI DESIGN FIRM PE-001166

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314.588.8881

St. Charles
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St. Charles, MO 63301
636.493.6277

Collinsville
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Collinsville, IL 62234
618.345.2200

Belleville
1 South Church, Suite 200
Belleville, IL 62220
618.416.4688

www.oatesassociates.com

H:\P\222102 - Route 47 Pavement, Safety, and Shoulder Improvements\CADD\Microstation\CADD Drawings\JNE0003 - sht-schedules.dgn 10:57:42 AM 8/26/2025

SIGNS						CONCRETE FOOTINGS EMBEDDED	STRUCTURAL STEEL POSTS*						PIPE POSTS*					BACKING BARS**				U-CHANNEL POST	PERFORATED SQUARE STEEL TUBE												BREAK-AWAY ASSEMBLY	REMARKS AND OTHER REQUIRED ITEMS
902 SIGNAL SIGNS TABULATED ON D-37A SHEET																						2-INCH POST						2.5-INCH POST							
																									ANCHORS						ANCHORS				
SIGN NO.	SIGN SIZE	STATION OR LOG MILE	HORIZ CLEAR IF NOT STD	LOCATION	SIGN DTL SHT NO.	ITEM NO. 9031010	POST DES NO.	POST NO. 1	POST NO. 2	POST NO. 3	LBS PER FT	TOTAL ITEM NO. 9031210	PIPE SIZE	POST NO. 1	POST NO. 2	LBS PER FT	TOTAL ITEM NO. 9031220	2" X 3/8" BARS AT 2.55 LBS/FT NO.	LGTH	TOTAL	TOTAL	ITEM NO. 9031250A	POST NO. 1	POST NO. 2	TOTAL ITEM NO. 9031270A	DRIVEN 12 GA. ITEM NO. 9031271A	DRIVEN 7 GA. ITEM NO. 9031273A	CONCRETE 7 GA. ITEM NO. 9031274	POST NO. 1	POST NO. 2	TOTAL ITEM NO. 9031280	2.25" INSERT (6 FT) ITEM NO. 9031272A	DRIVEN 7 GA. ITEM NO. 9031281A	CONCRETE 7 GA. ITEM NO. 9031285	ITEM NO. 9031241	
						CY		LF	LF	LF		LBS	IN	LF	LF		LBS	EACH	IN.	LF	LBS	LF	LF	LF		EACH	EACH	EACH				EACH	EACH	EACH	EACH	
61	ASSEMBLY	2283+10		RT																									16		16	1		1	1	EX/NEW SIGN ON NEW POST
62	24"X36"	2291+84		LT																		16		16			1								NEW SIGN ON NEW POST
63	24"X36"	2291+84		RT																		16		16			1								NEW SIGN ON NEW POST
64	48"X24"	2293+69		LT																		16	16	32			2								NEW SIGN ON NEW POST
65	36"X36"	2293+95		RT																		16		16			1								NEW SIGN ON NEW POST
66	COUNTY	2293+97		RT																		16		16			1								EX SIGN ON NEW POST
67	24"X36"	2300+84		LT																		16		16			1								NEW SIGN ON NEW POST
68	24"X36"	2300+84		RT																		16		16			1								NEW SIGN ON NEW POST
69	48'X24"	2306+39		LT																		16	16	32			2								NEW SIGN ON NEW POST
70	ASSEMBLY	2306+58		RT																									16		16	1		1	1	NEW SIGNS ON NEW POST
71	ASSEMBLY	2306+86		RT																		16		16			1								NEW SIGNS ON NEW POST
72	24"X36"	2309+84		LT																		16		16			1								NEW SIGN ON NEW POST
73	24"X36"	2309+84		RT																		16		16			1								NEW SIGN ON NEW POST
74	24"X36"	2318+84		LT																		16		16			1								NEW SIGN ON NEW POST
75	24"X36"	2318+84		RT																		16		16			1								NEW SIGN ON NEW POST
76	30"X36"	2327+21		LT																		16		16			1								NEW SIGN ON NEW POST
77	30"X36"	2327+18		RT																		16		16			1								NEW SIGN ON NEW POST
78	24"X36"	2327+90		LT																		16		16			1								NEW SIGN ON NEW POST
79	24"X36"	2327+90		RT																		16		16			1								NEW SIGN ON NEW POST
80	48'X24"	2330+03		LT																		16	16	32			2								NEW SIGN ON NEW POST
81	36"X36"	2330+17		RT																		16		16			1								NEW SIGN ON NEW POST
82	COUNTY	2330+24		RT																		16		16			1								EX SIGN ON NEW POST
83	36"X36"	2331+68		RT																		16		16			1								NEW SIGN ON NEW POST
84	24"X36"	2336+60		RT																		16		16			1								NEW SIGN ON NEW POST
85	24"X36"	2336+84		LT																		16		16			1								NEW SIGN ON NEW POST
86	COUNTY	2336+85		RT																		16		16			1								EX SIGN ON NEW POST
87	36"X36"	2336+93		RT																		16		16			1								NEW SIGN ON NEW POST
88	48'X24"	2337+51		RT																		16	16	32			2								NEW SIGN ON NEW POST
89	ASSEMBLY	2337+57		RT																									16		16	1		1	1	NEW SIGNS ON NEW POST
90	36" TRI	2337+89		RT																		16		16			1								NEW SIGN ON NEW POST
91	30"X36"	2341+31		LT																		16		16			1								NEW SIGN ON NEW POST
92	ASSEMBLY	2342+68		RT																									16		16	1		1	1	NEW SIGNS ON NEW POST
93	ASSEMBLY	2342+97		RT																		16		16			1								NEW SIGNS ON NEW POST
94	36" TRI	2343+23		LT																		16		16			1								NEW SIGN ON NEW POST
95	36"X36"	2343+55		LT																		16		16			1							1	NEW SIGN ON NEW POST
96	COUNTY	2344+21		LT																		16		16			1								EX SIGN ON NEW POST
97	24"X36"	2345+84		LT																		16		16			1								NEW SIGN ON NEW POST
98	24"X36"	2345+84		RT																		16		16			1								NEW SIGN ON NEW POST
99	36"X36"	2347+52		LT																		16		16			1								NEW SIGN ON NEW POST
100	30"X36"	2353+24		RT																		16		16			1								NEW SIGN ON NEW POST
101	24"X36"	2354+84		LT																		16		16			1								NEW SIGN ON NEW POST
102	24"X36'	2354+84		RT																		16		16			1								NEW SIGN ON NEW POST
103	30"X30"	2355+80		RT																		16		16			1								NEW SIGN ON NEW POST
104	ASSEMBLY	2357+83		RT														2	50	8.3	22								16		16	1		1	1	NEW SIGN ON NEW POST
105	LOCATION	2360+10		RT																		16	16	32			2								NEW SIGN ON NEW POST
		SUBTOTAL(2 OF 2)																			22			720			45			80	5		5	6	PHASE 2 SUBTOTAL
		PAY TOTAL																			200			1584			99			272	15		17	16	

*BREAKAWAY ASSEMBLY IS INCIDENTAL FOR STRUCTURAL STEEL AND PIPE POSTS.
**BACKING BARS ARE TOTALED WITH STRUCTURAL STEEL OR PIPE POSTS.

ROUND PIPE POST AND FOOTING DATA TABLE

NOM.SIZE	WEIGHT		STUB LENGTH	FOOTING		CONCRETE
(IN.)	LBS/FT	LBS/IN		DIA.	DEPTH	C.Y.
2½	5.79	0.48	4'- 3½"	12"	4~6"	0.13
4	10.79	0.90	5'- 3½"	18"	5~6"	0.36

STRUCTURAL STEEL POST AND FOOTING DATA TABLE

POST					FOOTING								
POST DES. NO.	NOM. SIZE	WEIGHT LBS/FT	WEIGHT LBS/IN	STUB LENGTH	DIA.	LEVEL GROUND DEPTH	LEVEL GROUND C.Y.	6:1 GRADE DEPTH	6:1 GRADE C.Y.	4:1 GRADE DEPTH	4:1 GRADE C.Y.	3:1 OR 2:1 GRADE DEPTH	3:1 OR 2:1 GRADE C.Y.
1	W6	9.0	0.75	3'-0"	15"	3'-0"	0.14	3'-2"	0.15	3'-3"	0.16	3'-6"	0.17
2	W6	15.0	1.25	4'-0"	24"	4'-0"	0.47	4'-2"	0.50	4'-3"	0.51	4'-6"	0.54
3	W8	18.0	1.50	4'-6"	28"	4'-6"	0.71	4'-8"	0.73	4'-9"	0.74	5'-0"	0.78
4	W10	22.0	1.83	5'-0"	36"	5'-0"	1.31	5'-2"	1.36	5'-3"	1.39	5'-6"	1.45
5	W10	26.0	2.17	5'-0"	36"	5'-0"	1.31	5'-3"	1.37	5'-5"	1.43	5'-9"	1.52
6	W12	35.0	2.92	5'-6"	36"	5'-6"	1.44	5'-9"	1.52	5'-11"	1.56	6'-3"	1.65

EFFECTIVE: 07-01-2024

STATE OF MISSOURI
JEFFREY R. RENSING
NUMBER PE-2006012376
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED 8/26/2025

ROUTE	STATE
47	MO
DISTRICT	SHEET NO.
NE	232

COUNTY: LINCOLN
JOB NO.: JNE0003
CONTRACT ID.:
PROJECT NO.:
BRIDGE NO.:

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

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
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JEFFERSON CITY, MO 65102
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618.416.4868

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MISSOURI DESIGN FIRM PE-001166

D-29

SIGNING / PAVEMENT MARKING SHEETS
SHEET 28 OF 30

STANDARD SIGN ASSEMBLIES

SIGN NO.	STATION OR LOG MILE	LOCATION	SIGN, TYPE, DESIGNATION, SIZE & NUMBER OF EACH																		
			M1-5a	M1-5a	M1-5a	M1-5a	M1-5a	M1-5	M2-1	M3-1	M3-3	M6-3	M6-1	M6-1	M6-4	R1-1	R1-2	R1-3P	R2-1	R2-1	R2-1	R2-1
			A	D	H	J	AA	47	JCT	NORTH	SOUTH					STOP	YIELD	ALL-WAY	SPEED LIMIT 35	SPEED LIMIT 45	SPEED LIMIT 50	SPEED LIMIT 55
			24"X24"	24"X24"	24"X24"	24"X24"	24"X24"	24"X24"	21"X15"	24"X12"	24"X12"	21"X15"	21"X15"	21"X15"	21"X15"	36"X36"	36" TRI	18"x6"	30"X36"	30"X36"	30"X36"	30"X36"
1	2000+25	LT	1	1				1				1	1	1								
2	2000+25	RT														1		1				
3	2000+29	LT														1		1				
4	2001+76	RT						1		1												
6	2003+23	RT																	1			
7	2006+49	LT																	1			
8	2010+16	LT	1	1					1													
9	2019+61	LT																	1			
10	2019+61	RT																		1		
11	2027+36	LT														1						
14	2031+95	LT																		1		
15	2031+95	RT																				1
16	2039+74	LT														1						
18	2067+46	LT																				1
20	2069+00	LT														1						
24	2100+16	RT														1						
25	2120+40	LT														1						
27	2127+75	RT														1						
28	2166+09	RT														1						
29	2180+00	LT						1			1											
30	2180+34	RT					1	1				1	1									
31	2180+79	LT														1						
32	2181+64	RT						1							1							
33	2183+02	RT						1		1												
34	2186+77	LT					1	1				1		1								
35	2191+79	LT					1		1													
36	2227+72	LT														1						
44	2240+50	LT														1						
46	2242+83	RT														1						
52	2263+88	LT														1						
60	2282+74	LT														1						
61	2283+10	RT														1						
65	2293+95	RT														1						
70	2306+58	RT														1						
71	2306+86	RT															1					
76	2327+21	LT																				1
77	2327+18	RT																			1	
81	2330+17	RT														1						
87	2336+93	RT														1						
89	2337+57	RT														1						
90	2337+89	RT															1					
91	2341+31	LT																			1	
92	2342+68	RT														1						
93	2342+97	RT															1					
94	2343+23	LT															1					
95	2343+55	LT														1						
100	2353+24	RT																			1	
104	2357+83	RT			1	1			1													
TOTALS (1 OF 2)			2	2	1	1	3	7	3	2	1	3	2	2	1	23	4	2	3	2	3	3

SIGN SUMMARY

EFFECTIVE: 10-01-2016

STANDARD OR SPECIAL SIGN DESIGNATION	SIGN DTL. SHT. NO.	NO. EACH	SIGN SIZE	TYPE & SQUARE FEET			
				FLAT SHEET SH ITEM NO. 9035004A	FLAT SHEET FLUORESCENT SHF* ITEM NO. 9035069A	STRUCTURAL ST ITEM NO. 9035011A	STRUCTURAL FLUORESCENT STF* ITEM NO. 9035071A
M1-5a	STD.	9	24"X24"	36.0			
M1-5	STD.	7	24"X24"	28.0			
M2-1	STD.	3	21"X15"	6.6			
M3-1	STD.	2	24"X12"	4.0			
M3-3	STD.	1	24"X12"	2.0			
M6-1	STD.	4	21"X15"	8.8			
M6-3	STD.	3	21"X15"	6.6			
M6-4	STD.	1	21"X15"	2.2			
R1-1	STD.	23	36"X36"	172.5			
R1-2	STD.	4	36" TRI	15.6			
R1-3P	STD.	2	18"X6"	1.5			
R2-1	STD.	11	30"X36"	82.5			
SUBTOTAL (1 OF 2)				366.3			

*ORANGE, YELLOW AND YELLOW-GREEN

SIGNING / PAVEMENT MARKING SHEETS SHEET 29 OF 30

STATE OF MISSOURI
JEFFREY R. RENSING
NUMBER PE-2006012376
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED: 8/26/2025
ROUTE: 47 | STATE: MO
DISTRICT: NE | SHEET NO.: 233
COUNTY: LINCOLN
JOB NO.: JNE0003
CONTRACT ID.:
PROJECT NO.:
BRIDGE NO.:

DESCRIPTION	DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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

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

OATES ASSOCIATES

Collinsville
100 Lamer Court, Suite 1
Collinsville, IL 62234
618.345.2200

Belleville
1 South Church, Suite 200
Belleville, IL 62220
618.416.4588

St. Louis
720 Olive, Suite 700
St. Louis, MO 63101
314.588.8881

St. Charles
820 South Main, Suite 309
St. Charles, MO 63301
636.493.6277

www.oatesassociates.com

MISSOURI DESIGN FIRM PE-001166

STANDARD SIGN ASSEMBLIES

SIGN NO.	STATION OR LOG MILE	LOCATION	SIGN, TYPE, DESIGNATION, SIZE & NUMBER OF EACH																		
			R3-4	R3-9b	R5-1	R5-2b	W1-7	W2-2	W2-7R	W2-7L	W3-3	W4-4P									
			24"X24"	24"X36"	30"X30"	24"X30"	48"X24"	36"X36"	36"X36"	36"X36"	30"X30"	24"X12"									
12	2027+56	RT					1														
13	2027+79	LT	1			1															
21	2069+26	RT					1														
22	2074+85	LT							1												
23	2099+86	LT					1														
26	2120+60	RT					1														
37	2228+04	RT					1														
40	2228+84	RT		1																	
41	2235+00	RT								1											
42	2237+84	LT		1																	
43	2237+84	RT		1																	
48	2246+84	LT		1																	
49	2246+84	RT		1																	
49A	2249+00	LT								1											
50	2255+84	LT		1																	
51	2255+84	RT		1																	
54	2264+84	RT		1																	
55	2264+84	LT		1																	
56	2273+84	LT		1																	
57	2273+84	RT		1																	
58	2282+57	LT		1																	
59	2282+57	RT		1																	
62	2291+84	LT		1																	
63	2291+84	RT		1																	
64	2293+69	LT					1														
67	2300+84	LT		1																	
68	2300+84	RT		1																	
69	2306+39	LT					1														
71	2306+86	RT			1																
72	2309+84	LT		1																	
73	2309+84	RT		1																	
74	2318+84	LT		1																	
75	2318+84	RT		1																	
78	2327+90	LT		1																	
79	2327+90	RT		1																	
80	2330+03	LT					1														
83	2331+68	RT						1													
84	2336+60	RT		1																	
85	2336+84	LT		1																	
88	2337+51	LT					1														
89	2337+57	RT										1									
93	2342+97	RT			1																
97	2345+84	LT		1																	
98	2345+84	RT		1																	
99	2347+52	LT							1												
101	2354+84	LT		1																	
102	2354+84	RT		1																	
103	2355+80	RT									1										
TOTALS (2 OF 2)			1	29	2	1	9	1	2	2	1	1	*								

* COMPLETED BY OTHERS

SIGN SUMMARY

EFFECTIVE: 10-01-2016

STANDARD OR SPECIAL SIGN DESIGNATION	SIGN DTL. SHT. NO.	NO. EACH	SIGN SIZE	TYPE & SQUARE FEET			
				FLAT SHEET SH ITEM NO. 9035004A	FLAT SHEET FLUORESCENT SHF* ITEM NO. 9035069A	STRUCTURAL ST ITEM NO. 9035011A	STRUCTURAL FLUORESCENT STF* ITEM NO. 9035071A
R3-4	STD.	1	24"X24"	4.0			
R3-9b	STD.	29	24"X36"	174.0			
R5-1	STD.	2	30"X30"	12.5			
R5-2b	STD.	1	24"X30"	5.0			
W1-7	STD.	9	48"X24"		72.0		
W2-2	STD.	1	36"X36"		9.0		
W2-7R	STD.	2	36"X36"		18.0		
W2-7L	STD.	2	36"X36"		18.0		
W3-3	STD.	1	30"X30"		6.3		
W4-4P	STD.	1	24"X12"		2.0		
SUBTOTAL (2 OF 2)				195.5	125.3		
				562	125		

*ORANGE, YELLOW AND YELLOW-GREEN

SIGNING / PAVEMENT MARKING SHEETS SHEET 30 OF 30

STATE OF MISSOURI
JEFFREY R. RENSING
NUMBER PE-2006012376
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED 8/26/2025

ROUTE	STATE
47	MO
DISTRICT	SHEET NO.
NE	234

COUNTY: LINCOLN

JOB NO.: JNE0003

CONTRACT ID.: .

PROJECT NO.: .

BRIDGE NO.: .

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

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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

Collinsville
100 Lamer Court, Suite 1
Collinsville, IL 62234
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Belleville
1 South Church, Suite 200
Belleville, IL 62220
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314.588.8881

St. Charles
820 South Main, Suite 309
St. Charles, MO 63301
636.493.6277

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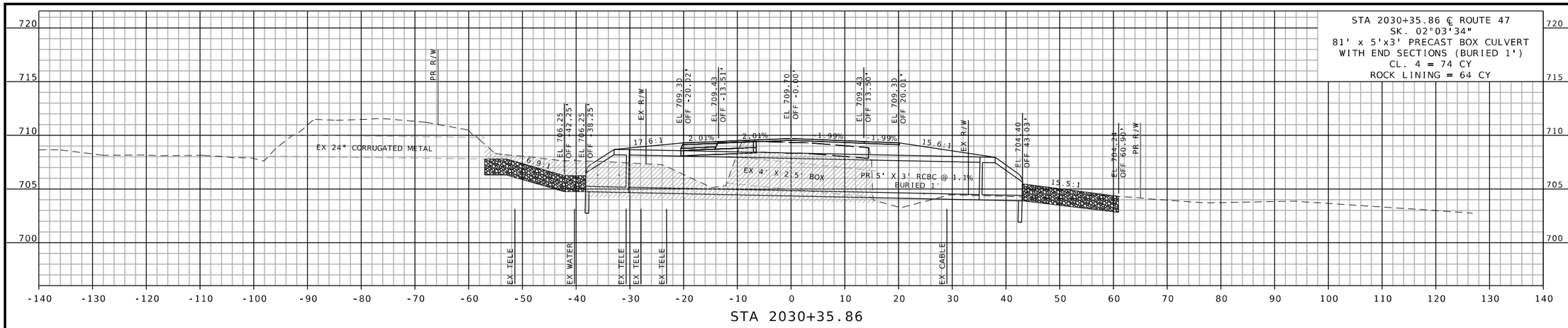
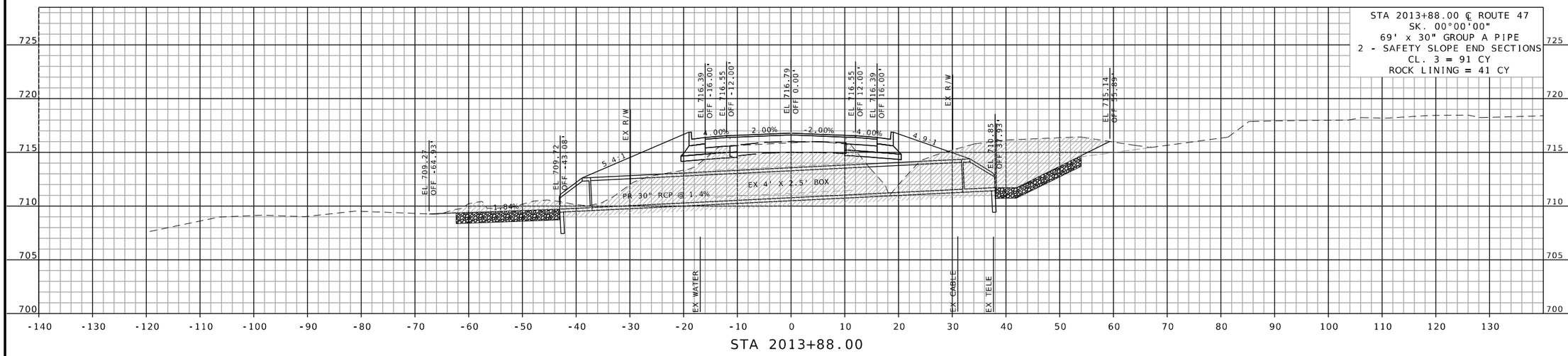
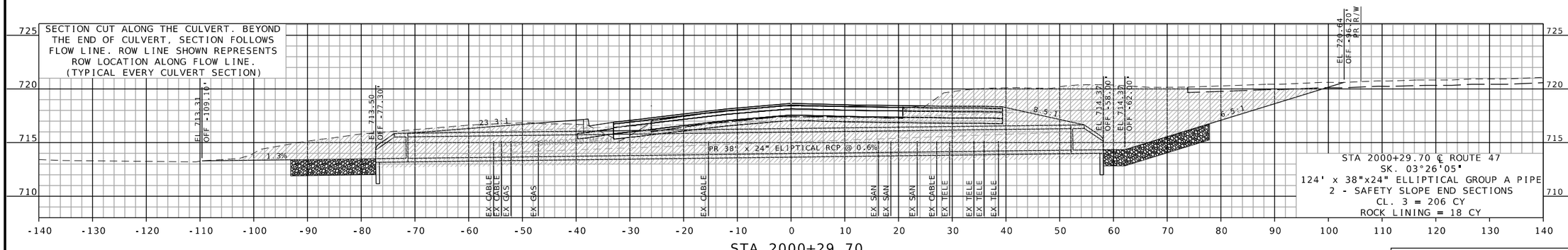
MISSOURI DESIGN FIRM PE-001166

OATES ASSOCIATES







CULVERT SECTIONS SHEETS
SHEET 1 OF 8

STATE OF MISSOURI
JEFFREY R. RENSING
NUMBER PE-2006012376
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED
8/26/2025

ROUTE	STATE
47	MO
DISTRICT	SHEET NO.
NE	235

COUNTY
LINCOLN

JOB NO.
JNE0003

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

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

OATES ASSOCIATES

Collinsville
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St. Charles, MO 63301
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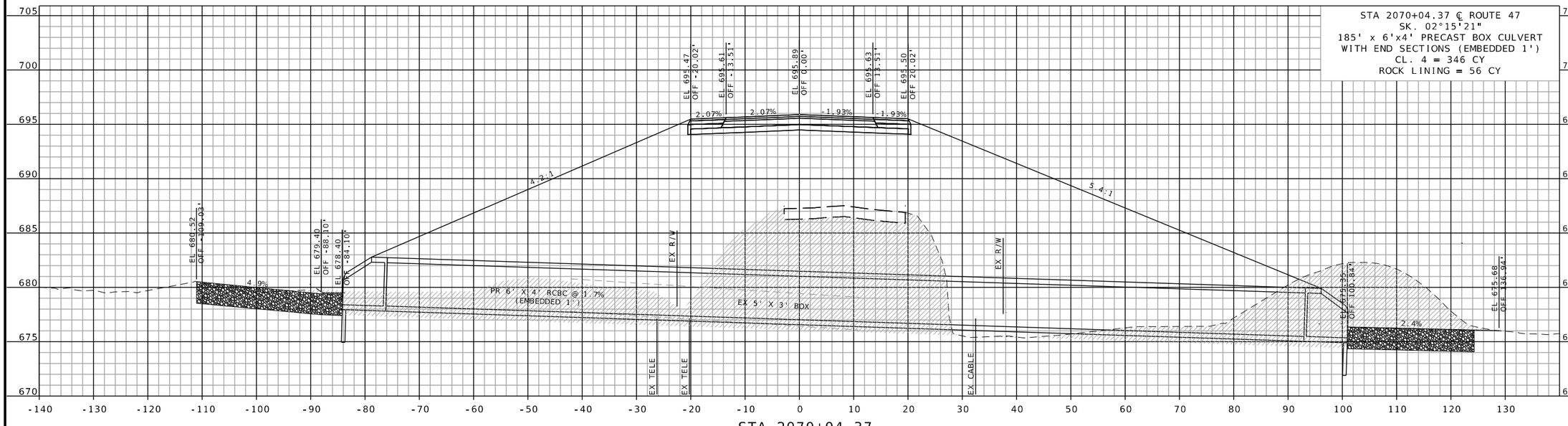
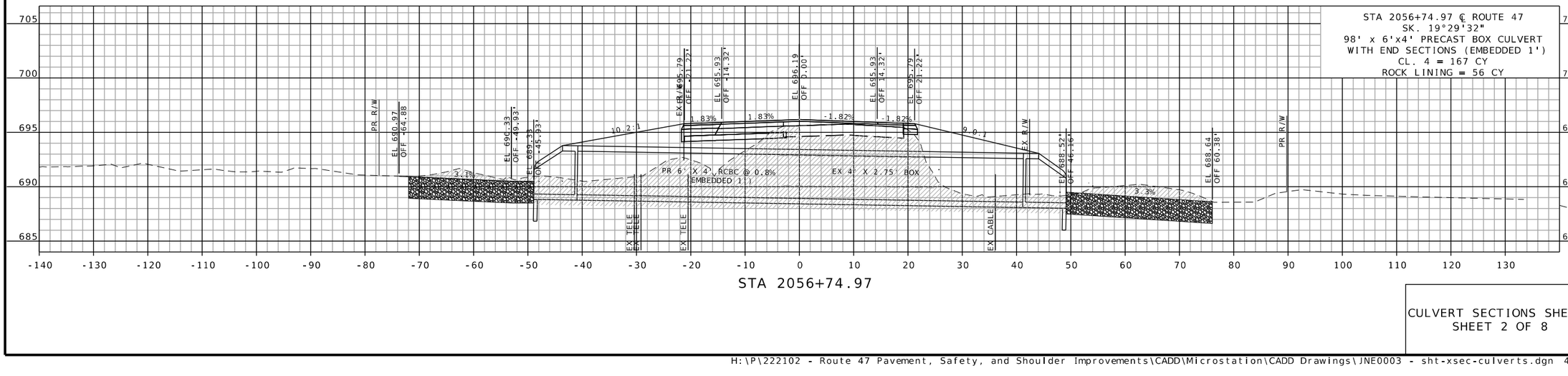
MISSOURI DESIGN FIRM PE-001166





CULVERT SECTIONS SHEETS
SHEET 2 OF 8

STATE OF MISSOURI
JEFFREY R. RENSING
NUMBER PE-2006012376
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED
8/26/2025

ROUTE	STATE
47	MO
DISTRICT	SHEET NO.
NE	236

COUNTY
LINCOLN

JOB NO.
JNE0003

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

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

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OATES ASSOCIATES

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1 South Church, Suite 200
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618.416.4688

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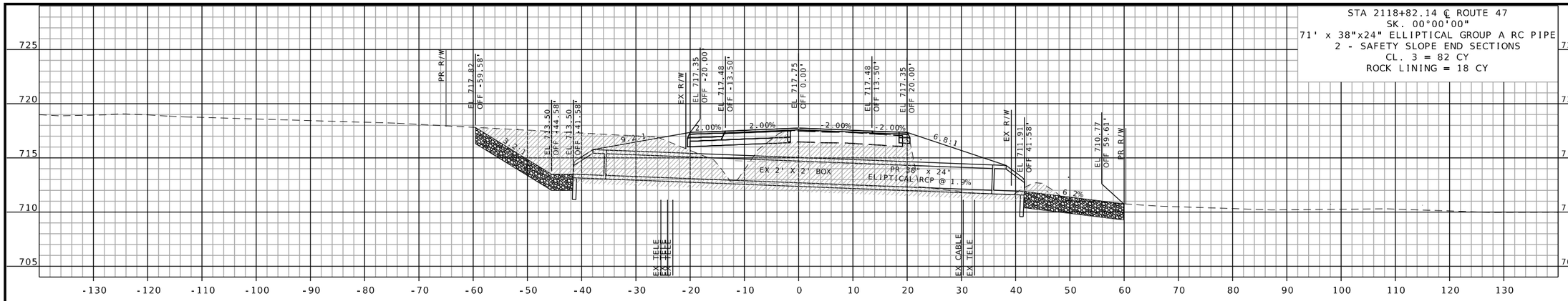
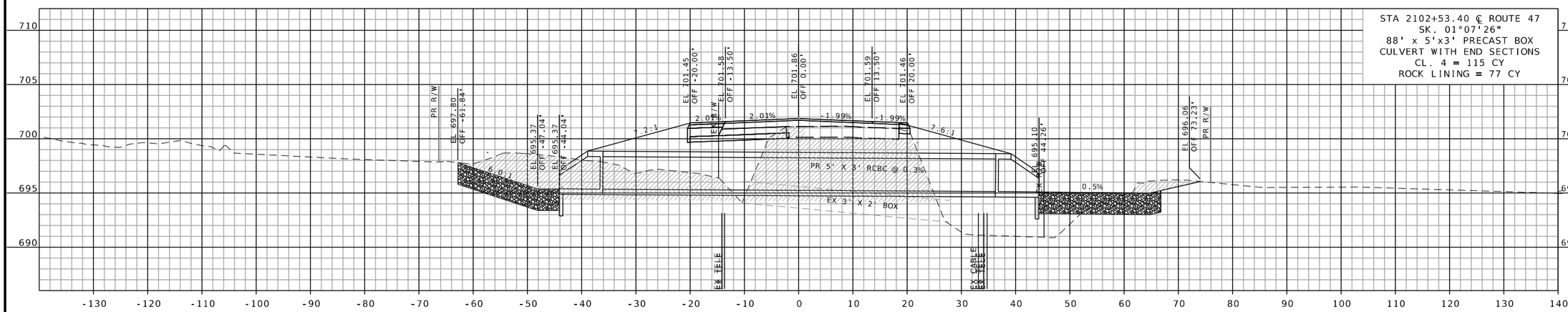
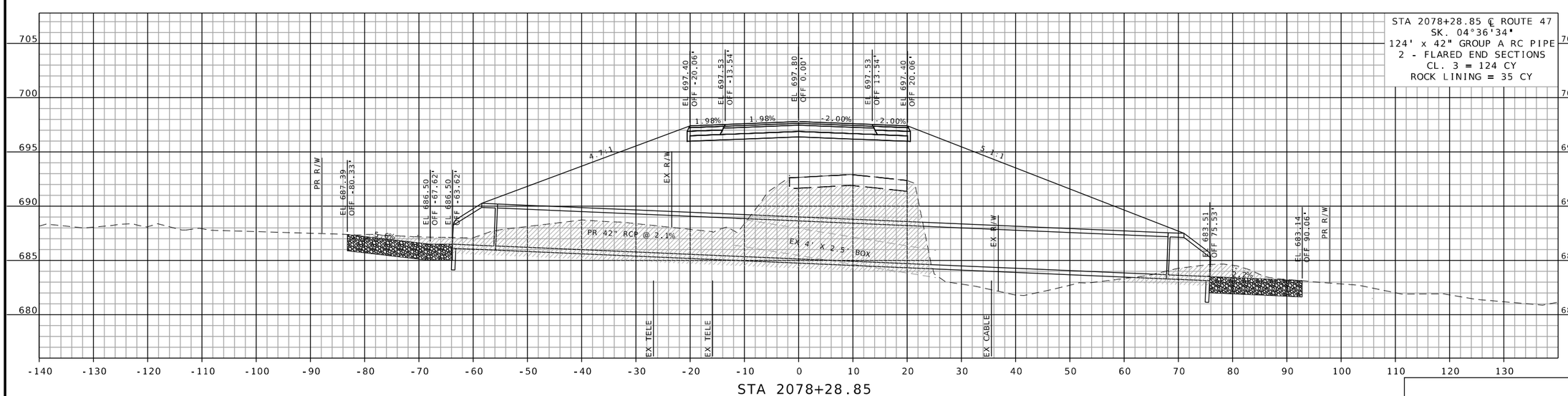
MISSOURI DESIGN FIRM PE-001166







CULVERT SECTIONS SHEETS
SHEET 3 OF 8

STATE OF MISSOURI
JEFFREY R. RENSING
NUMBER PE-2006012376
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED
8/26/2025

ROUTE	STATE
47	MO
DISTRICT	SHEET NO.
NE	237

COUNTY
LINCOLN

JOB NO.
JNE0003

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

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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

Collinsville
100 Lanser Court, Suite 1
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618.343.2200

Belleville
1 South Church, Suite 200
Belleville, IL 62220
618.416.6688

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St. Charles
820 South Main, Suite 309
St. Charles, MO 63301
636.493.8277

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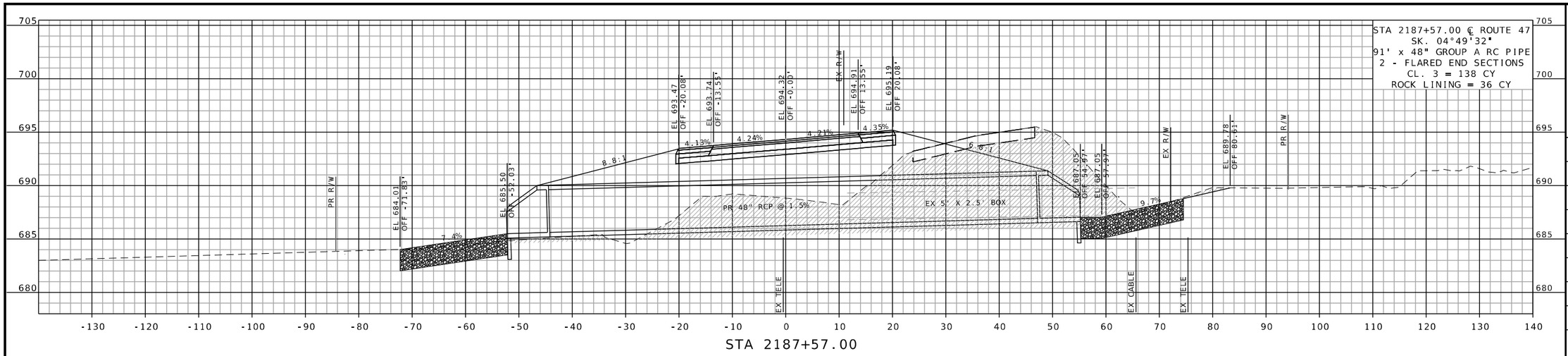
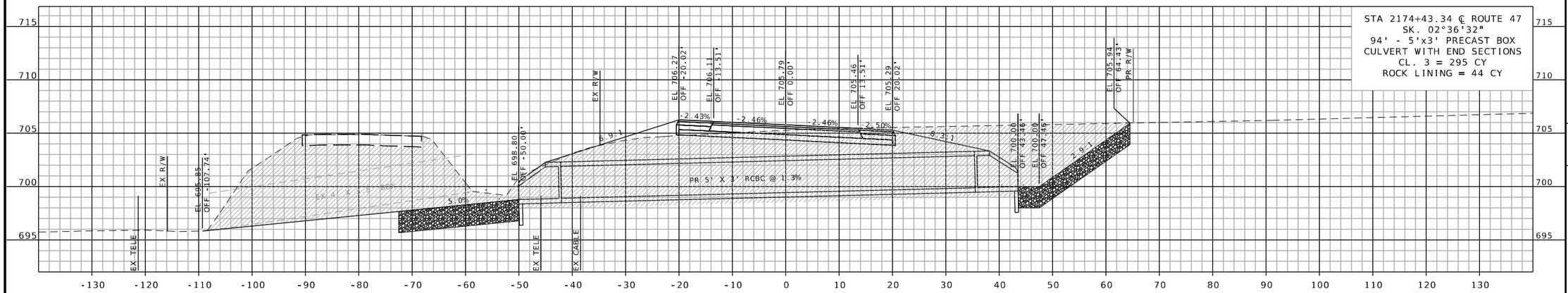
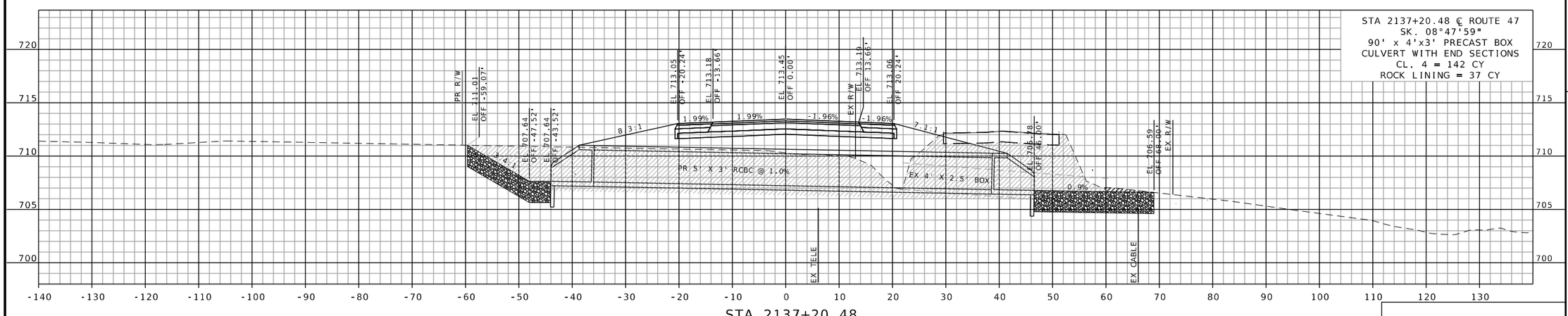
MISSOURI DESIGN FIRM PE-001166

OATES ASSOCIATES







CULVERT SECTIONS SHEETS
SHEET 4 OF 8

STATE OF MISSOURI
JEFFREY R. RENSING
NUMBER PE-2006012376
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

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

DATE PREPARED	
8/26/2025	
ROUTE	STATE
47	MO
DISTRICT	SHEET NO.
NE	238
COUNTY	
LINCOLN	
JOB NO.	
JNE0003	
CONTRACT ID.	
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PROJECT NO.	
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BRIDGE NO.	
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DESCRIPTION	DATE
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MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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

St. Louis
720 Olive, Suite 700
St. Louis, MO 63101
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St. Charles
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St. Charles, MO 63301
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Collinsville
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Collinsville, IL 62234
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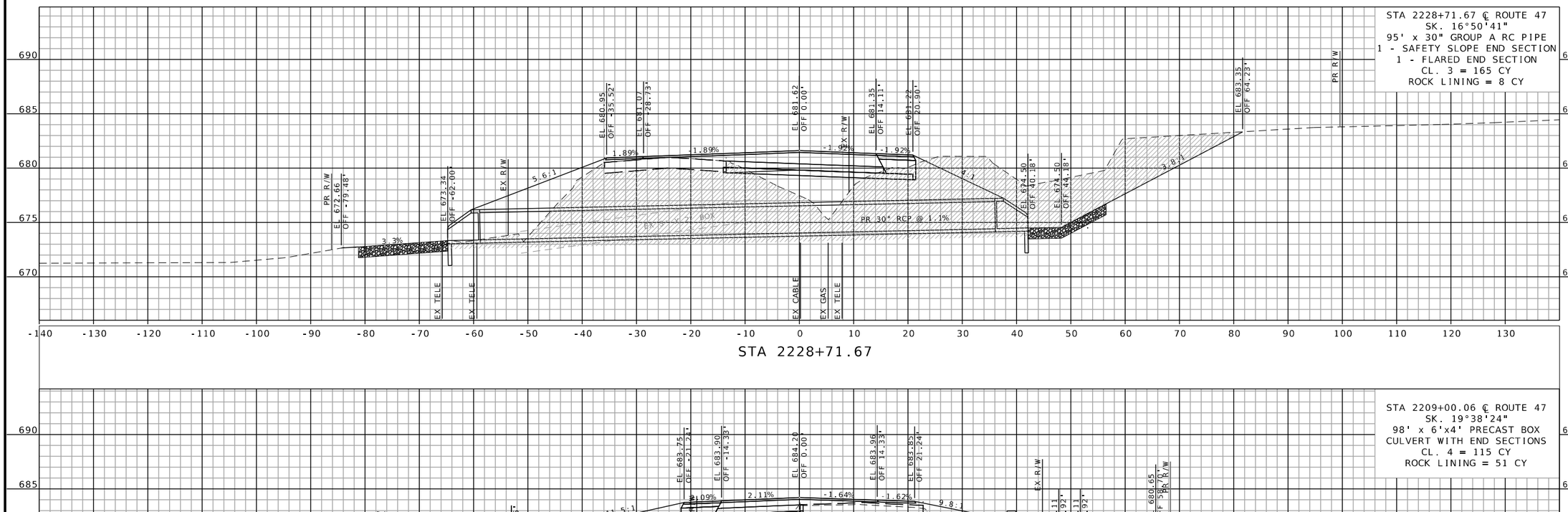
Belleville
1 South Church, Suite 200
Belleville, IL 62220
618.416.4868

www.oatesassociates.com

MISSOURI DESIGN FIRM PE-001166

OATES ASSOCIATES



CULVERT SECTIONS SHEETS
SHEET 5 OF 8

STATE OF MISSOURI
JEFFREY R. RENSING
NUMBER PE-2006012376
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED
8/26/2025

ROUTE	STATE
47	MO
DISTRICT	SHEET NO.
NE	239

COUNTY
LINCOLN

JOB NO.
JNE0003

CONTRACT ID.
.

PROJECT NO.
.

BRIDGE NO.
.

DESCRIPTION	DATE
.	.

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

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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

OATES ASSOCIATES

Collinsville
100 Lamper Court, Suite 1
Collinsville, IL 62234
618-345-2200

Belleville
1 South Church, Suite 200
Belleville, IL 62220
618-416-6688

St. Louis
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St. Charles
820 South Main, Suite 309
St. Charles, MO 63301
636-493-5277

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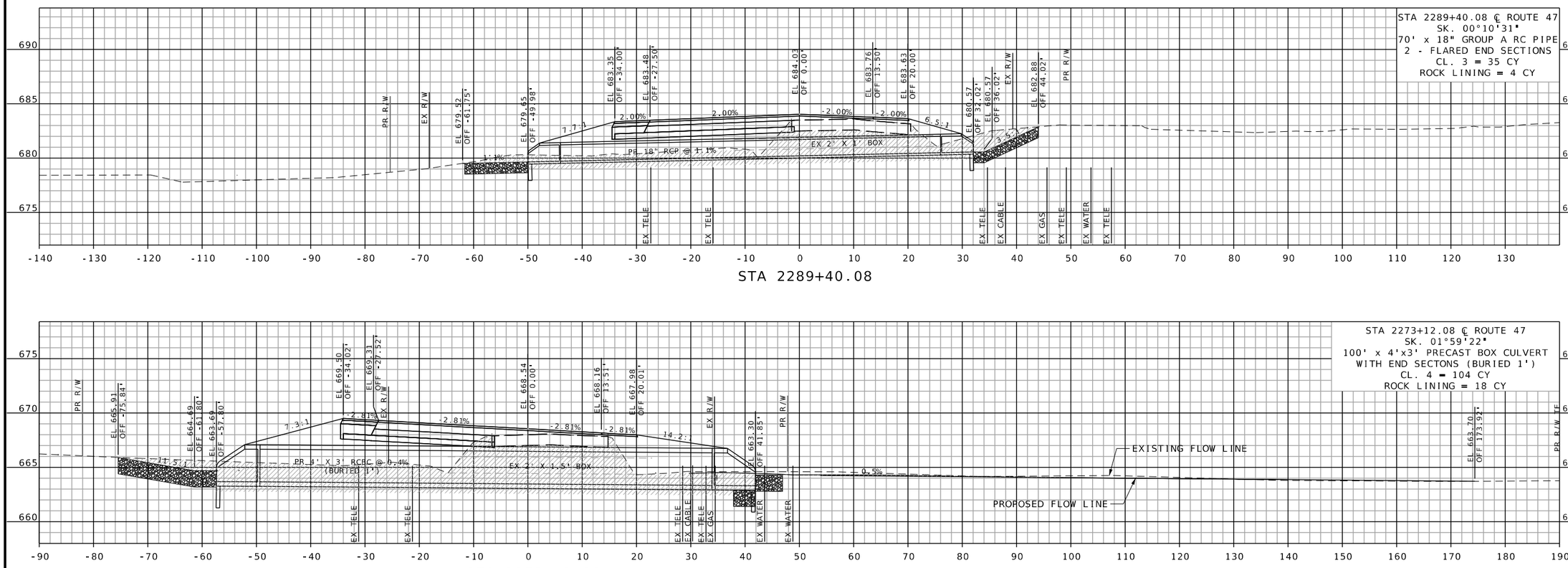
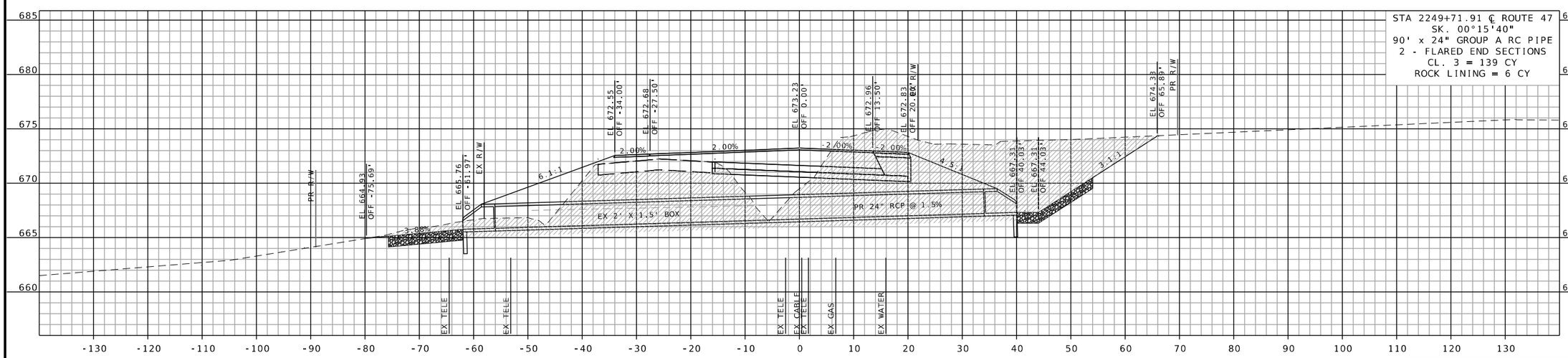
MISSOURI DESIGN FIRM PE-001166





CULVERT SECTIONS SHEETS
SHEET 6 OF 8

STATE OF MISSOURI
JEFFREY R. RENSING
NUMBER PE-2006012376
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED	
8/26/2025	
ROUTE	STATE
47	MO
DISTRICT	SHEET NO.
NE	240
COUNTY	
LINCOLN	
JOB NO.	
JNE0003	
CONTRACT ID.	
.	
PROJECT NO.	
.	
BRIDGE NO.	
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DATE	DESCRIPTION
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IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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

St. Louis
720 Olive, Suite 700
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Collinsville
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Collinsville, IL 62234
618.343.2300

Belleville
1 South Church, Suite 200
Belleville, IL 62220
618.416.6488

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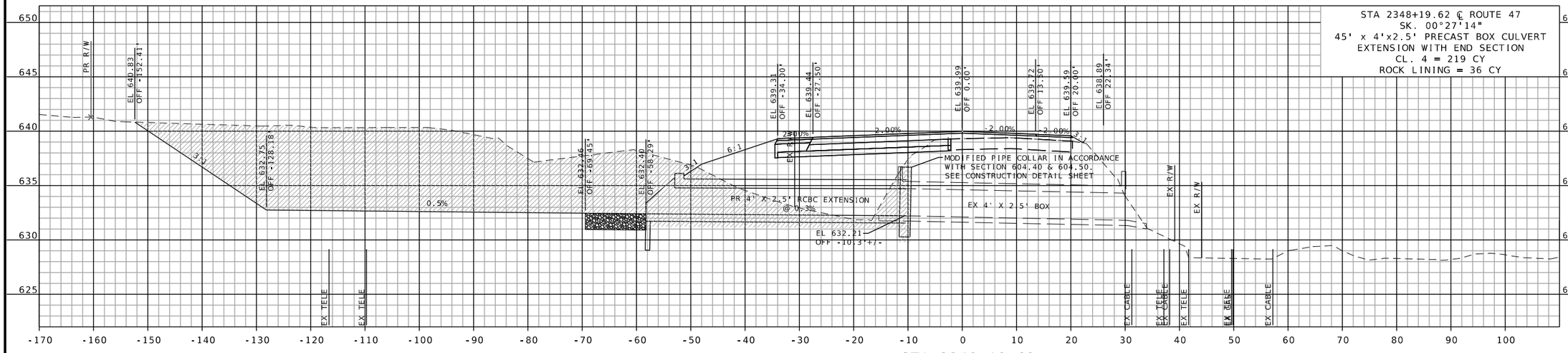
MISSOURI DESIGN FIRM PE-001166

OATES ASSOCIATES



CULVERT SECTIONS SHEETS
SHEET 7 OF 8

STATE OF MISSOURI
JEFFREY R. RENSING
NUMBER PE-2006012376
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED
8/26/2025

ROUTE	STATE
47	MO
DISTRICT	SHEET NO.
NE	241

COUNTY
LINCOLN

JOB NO.
JNE0003

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

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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

OATES ASSOCIATES

Collinsville
100 Lanter Court, Suite 1
Collinsville, IL 62234
618.345.2200

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Belleville, IL 62220
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St. Charles, MO 63301
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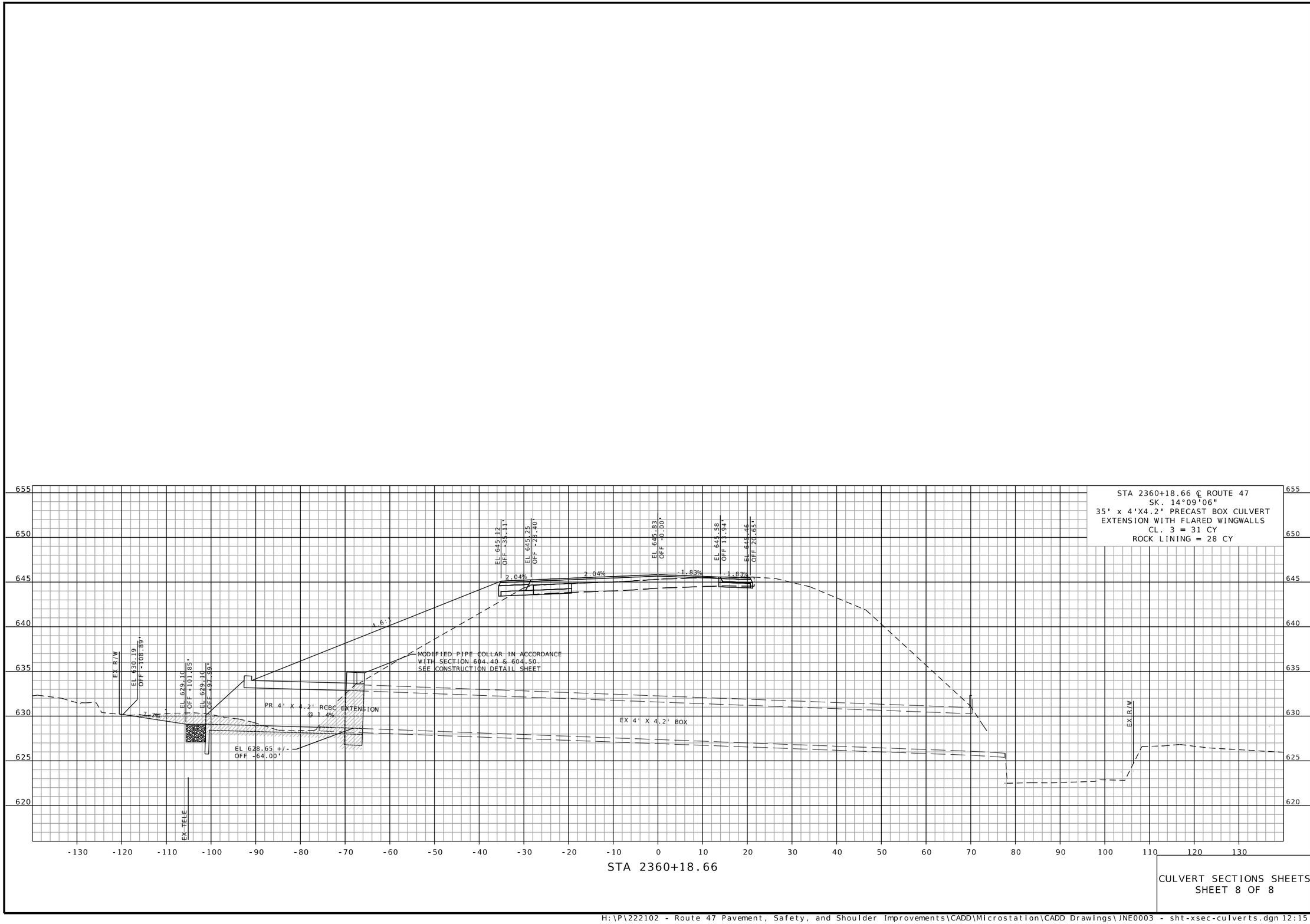
MISSOURI DESIGN FIRM PE-001166



CULVERT SECTIONS SHEETS
SHEET 8 OF 8

STATE OF MISSOURI
JEFFREY R. RENSING
NUMBER PE-2006012376
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED
8/26/2025

ROUTE	STATE
47	MO
DISTRICT	SHEET NO.
NE	242

COUNTY
LINCOLN

JOB NO.
JNE0003

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

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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

OATES ASSOCIATES

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314.588.8381

St. Charles
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St. Charles, MO 63301
636.493.6277

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MISSOURI DESIGN FIRM PE-001166

H:\P\222102 - Route 47 Pavement, Safety, and Shoulder Improvements\CADD\Microstation\CADD Drawings\JNE0003 - sht-xsec-culverts.dgn 12:15:59 PM 8/26/2025