DESIGN DESIGNATION (WESTBOUND)

A.A.D.T. - 2016 = 15,860
A.A.D.T. - 2036 = 17,460
T = 30%
V = 70

FUNCTIONAL CLASSIFICATION-INTERSTATE

DESIGN DESIGNATION (EASTBOUND)

A.A.D.T. - 2016 = 18,100
A.A.D.T. - 2036 = 20,210
T = 31%
V = 70

FUNCTIONAL CLASSIFICATION-INTERSTATE

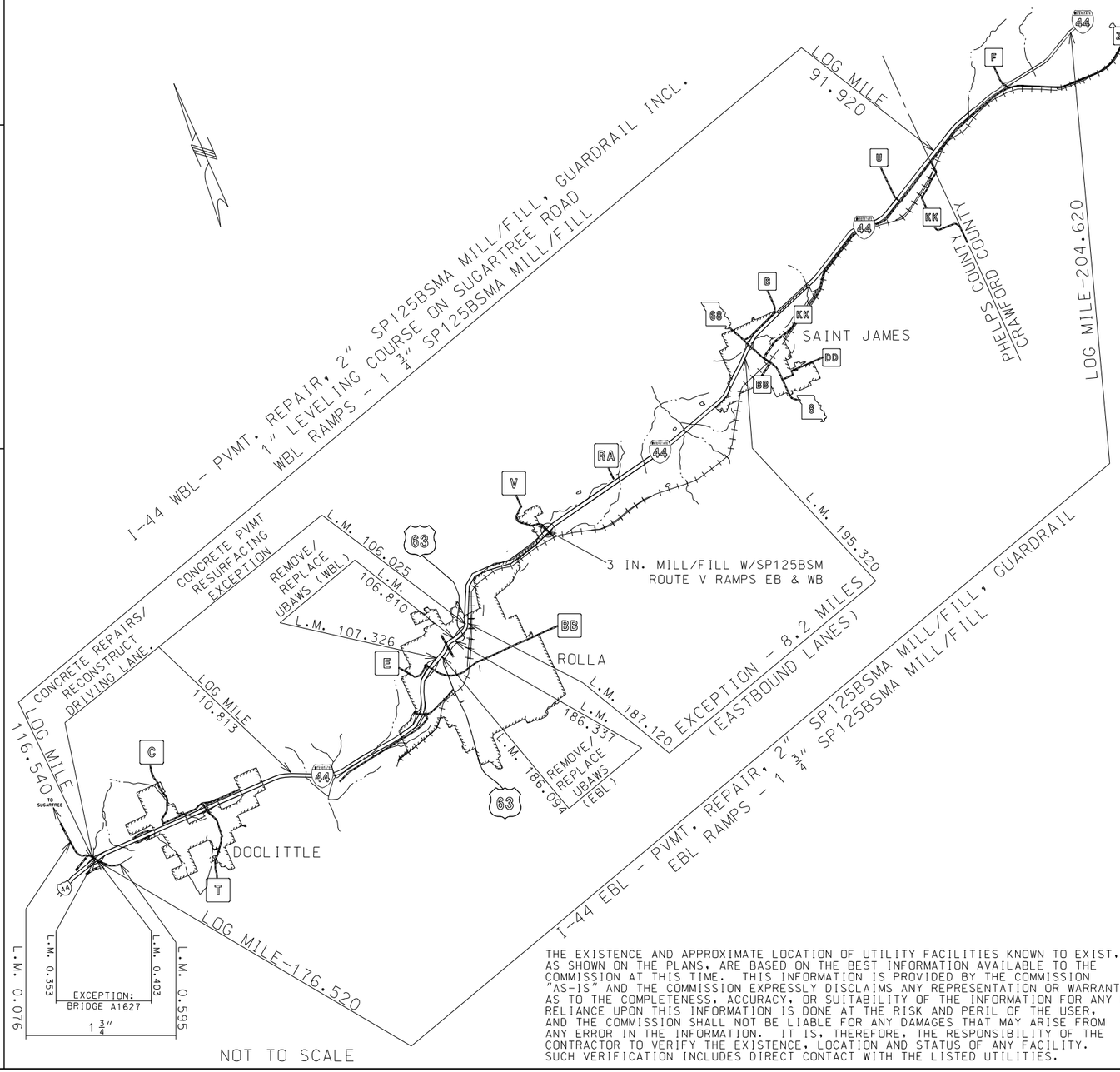
NO NEW R/W

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
PHELPS/CRAWFORD COUNTY



THE EXISTENCE AND APPROXIMATE LOCATION OF UTILITY FACILITIES KNOWN TO EXIST, AS SHOWN ON THE PLANS, ARE BASED ON THE BEST INFORMATION AVAILABLE TO THE COMMISSION AT THIS TIME. THIS INFORMATION IS PROVIDED BY THE COMMISSION "AS-IS" AND THE COMMISSION EXPRESSLY DISCLAIMS ANY REPRESENTATION OR WARRANTY AS TO THE COMPLETENESS, ACCURACY, OR SUITABILITY OF THE INFORMATION FOR ANY USE. RELIANCE UPON THIS INFORMATION IS DONE AT THE RISK AND PERIL OF THE USER, AND THE COMMISSION SHALL NOT BE LIABLE FOR ANY DAMAGES THAT MAY ARISE FROM ANY ERROR IN THE INFORMATION. IT IS, THEREFORE, THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY THE EXISTENCE, LOCATION AND STATUS OF ANY FACILITY. SUCH VERIFICATION INCLUDES DIRECT CONTACT WITH THE LISTED UTILITIES.

INDEX OF SHEETS

DESCRIPTION	SHEET NUMBER
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TYPICAL SECTIONS (TS) (4 SHEETS)	2
QUANTITIES (QU) (22 SHEETS)	3
PLAN SHEETS (PL) (31 SHEETS)	4-34
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SPECIAL SHEETS (SS)	37-44
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EROSION CONTROL SHEETS (EC)	62-65
PAVEMENT MARKING (PM)	66-95
CULVERT SECTIONS (CS)	96-97
CROSS SECTIONS (XS)	1-39

WESTBOUND LENGTH OF PROJECT

BEGINNING OF PROJECT	LOG MILE 91.927	
END OF PROJECT	LOG MILE 116.630	
APPARENT LENGTH	130,384.320	FEET
EQUATIONS AND EXCEPTIONS: BRIDGE L0527	33.000	FEET
TOTAL CORRECTIONS	33.000	FEET
NET LENGTH OF PROJECT	130,351.320	FEET
STATE LENGTH	24.688	MILES

EASTBOUND LENGTH OF PROJECT

BEGINNING OF PROJECT	LOG MILE 176.521	
END OF PROJECT	LOG MILE 204.620	
APPARENT LENGTH	148,368.000	FEET
EQUATIONS AND EXCEPTIONS: BRIDGE L0527	33.000	FEET
TOTAL CORRECTIONS	33.000	FEET
NET LENGTH OF PROJECT	148,335.000	FEET
STATE LENGTH	28.094	MILES
FOR INFORMATION ONLY ESTIMATED DISTURBED ACRES	3.014	ACRES

STATE OF MISSOURI
JASON S. DOHRMANN
PE-2004017159
PROFESSIONAL ENGINEER

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

DATE PREPARED: 9/23/2021
ROUTE: I44 | STATE:
DISTRICT: CD | SHEET NO.: 1
COUNTY: PHELPS/CRAWFORD
JOB NO.: J5I3397
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)

HR GREEN, INC.
16020 SWINGLEY RIDGE ROAD.
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ST. LOUIS, MISSOURI 63017
PHONE: (636) 519.0990
CORPORATE LICENSE #2002006608

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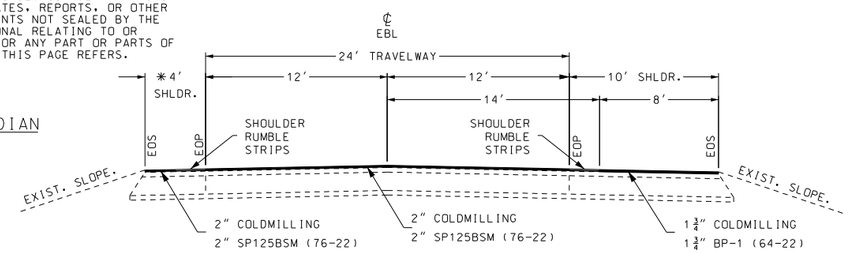


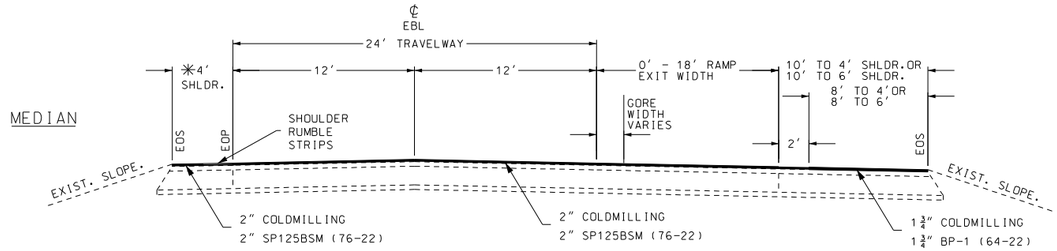
ROUTE 44 EASTBOUND LANE (EBL) TYPICAL SECTION ON TANGENT

* SHOULDER WIDTH VARIES THROUGH TAPER

** TRIAL PAVEMENT MARKING IN GROOVED JOINT, NOT IN RUMBLE STRIP, EASTBOUND ONLY. SEE DETAIL SHEET 85.

*** USE 2" SP125BSM WHEN SHOULDERS ARE LESS THAN 4' WIDE.

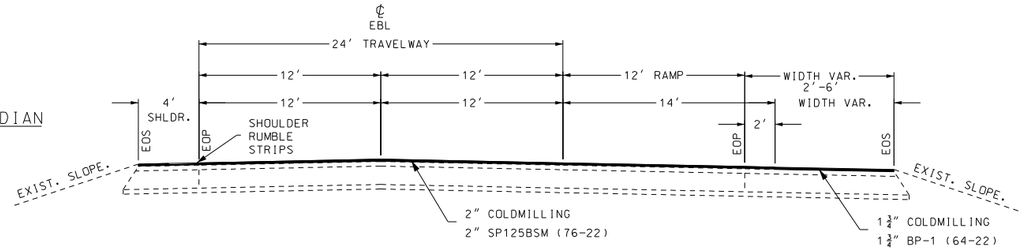
L.M. 176.521 TO 176.741 (BEGIN PROJECT / EBL)
L.M. 176.889 TO L.M. 177.797
L.M. 177.836 TO L.M. 178.142
L.M. 178.276 TO L.M. 179.167
L.M. 179.243 TO L.M. 179.671
L.M. 179.839 TO L.M. 184.202
L.M. 184.324 TO L.M. 184.797
L.M. 184.938 TO L.M. 185.450
L.M. 185.511 TO L.M. 185.600
L.M. 195.320 TO L.M. 195.425 **
L.M. 195.488 TO L.M. 203.065 **
L.M. 195.868 TO L.M. 203.065 **
L.M. 203.173 TO L.M. 203.631 **
L.M. 203.793 TO L.M. 204.620 **



ROUTE 44 EBL MAINLINE TO EXIT GORE TYPICAL SECTION ON TANGENT

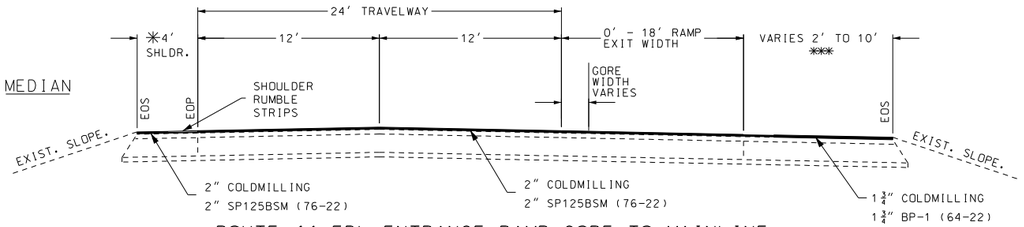
(QUANTITIES ARE FROM MEASURED AREA)

L.M. 177.797 TO L.M. 177.836 - REST AREA EXIT
L.M. 179.167 TO L.M. 179.243 - ROUTE T EXIT
L.M. 184.202 TO L.M. 184.324 - KINGSHIGHWAY EXIT
L.M. 185.450 TO L.M. 185.511 - ROUTE E EXIT
L.M. 195.425 TO L.M. 195.488 - RTE. 8/68 EXIT **
L.M. 203.075 TO L.M. 203.173 - RTE. F EXIT **



ROUTE 44 EBL (ENTRANCE RAMP) TYPICAL SECTION ON TANGENT

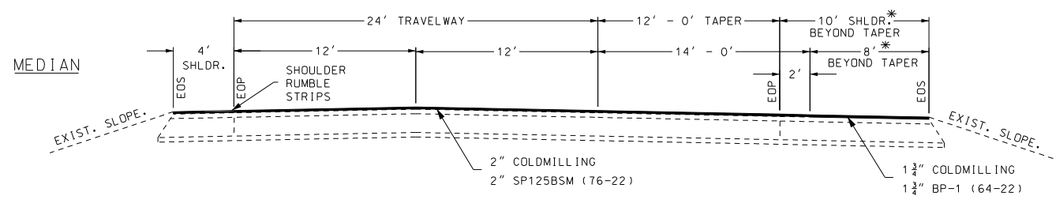
L.M. 176.780 TO L.M. 176.846 - SUGARTREE RD. MAINLINE+RAMP ACCEL LANE
L.M. 178.167 TO L.M. 178.223 - REST AREA MAINLINE+RAMP ACCEL LANE
L.M. 179.727 TO L.M. 179.792 - ROUTE T MAINLINE+RAMP ACCEL LANE
L.M. 184.856 TO L.M. 184.894 - KINGSHIGHWAY MAINLINE+RAMP ACCEL LANE
L.M. 195.767 TO L.M. 195.841 - RTE. 8/68 MAINLINE+RAMP ACCEL LANE **
L.M. 203.680 TO L.M. 203.755 - RTE. F MAINLINE+RAMP ACCEL LANE **



ROUTE 44 EBL ENTRANCE RAMP GORE TO MAINLINE TYPICAL SECTION ON TANGENT

(QUANTITIES ARE FROM MEASURED AREA)

L.M. 176.741 TO L.M. 176.780 - SUGARTREE RD. MAINLINE+RAMP ENTR. GORE ***
L.M. 178.142 TO L.M. 178.167 - REST AREA MAINLINE+RAMP ENTR. GORE ***
L.M. 179.671 TO L.M. 179.727 - ROUTE T MAINLINE+RAMP ENTR. GORE ***
L.M. 184.797 TO L.M. 184.856 - KINGSHIGHWAY MAINLINE+RAMP ENTR. GORE ***
L.M. 195.723 TO L.M. 195.767 - RTE. 8/68 MAINLINE+RAMP ENTR. GORE ***
L.M. 203.631 TO L.M. 203.680 - RTE. F MAINLINE+RAMP ENTR. GORE



ROUTE 44 EBL (ENTRANCE RAMP TAPER) TYPICAL SECTION ON TANGENT

L.M. 176.846 TO L.M. 176.889 - SUGARTREE RD. MAINLINE+RAMP ACCEL LANE TAPER
L.M. 178.223 TO L.M. 178.276 - REST AREA MAINLINE+RAMP ACCEL LANE TAPER
L.M. 179.792 TO L.M. 179.839 - ROUTE T MAINLINE+RAMP ACCEL LANE TAPER
L.M. 184.894 TO L.M. 184.938 - KINGSHIGHWAY MAINLINE+RAMP ACCEL LANE TAPER
L.M. 195.841 TO L.M. 195.868 - RTE. 8/68 MAINLINE+RAMP ACCEL LANE TAPER **
L.M. 203.755 TO L.M. 203.793 - RTE. F MAINLINE+RAMP ACCEL LANE TAPER **

GENERAL NOTES:

ESTIMATE FACTORS:
TACK = 0.08 GAL/SY FOR OVERLAY
TACK = 0.10 GAL/SY FOR MILL/FILL
SP125BSMA (PG 76-22) = 1.990 TON/CY
BP-1 (PG 64-22) = 1.948 TON/CY
BIT PVMT MIX LEVELING COURSE (PG 64-22) = 1.948 TON/CY
TYPE C UBAWS = 0.190 GAL/SY
GRAVEL = 0.039 TON/SY/IN

LOG MILES GIVEN ARE IN THE DIRECTION OF TRAFFIC.
LOG MILES ARE APPROXIMATE. VERIFY LOCATIONS IN FIELD.

NOT TO SCALE

TYPICAL SECTIONS
I-44 EASTBOUND LANE
SHEET 1 OF 4

STATE OF MISSOURI
JASON S. DOHRMANN
PE-2004017159
PROFESSIONAL ENGINEER

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

DATE PREPARED
9/30/2021

ROUTE	STATE
I-44	MO
DISTRICT	SHEET NO.
CD	2

COUNTY
PHELPS/CRAWFD

JOB NO.
J5I3397

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

REV.	DESCRIPTION	DATE

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MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
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16020 SWINGLEY RIDGE ROAD.
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PHONE: (636) 519.0990
CORPORATE LICENSE #2002006608

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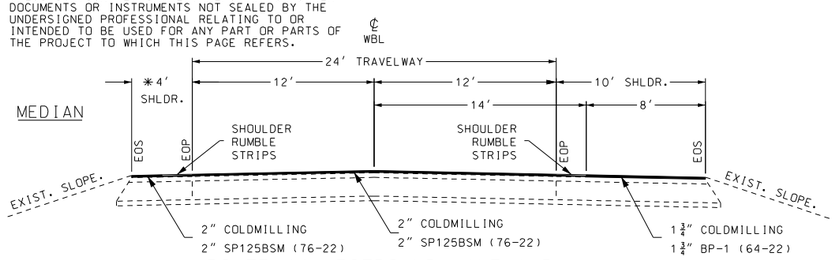
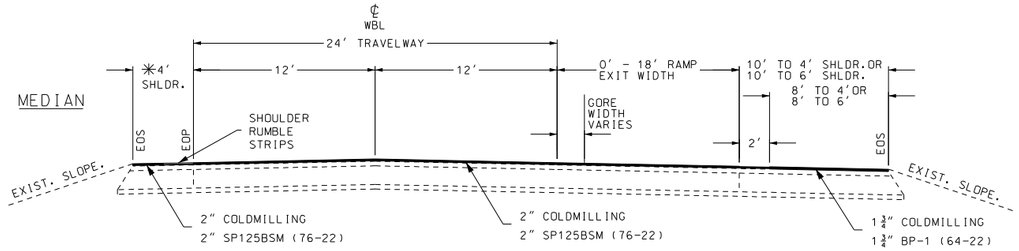


ROUTE 44 WESTBOUND LANE (WBL)
TYPICAL SECTION ON TANGENT

L.M. 91.927 TO L.M. 95.4(BEGIN PROJECT / WBL)
L.M. 95.6 TO L.M. 97.353
L.M. 97.409 TO L.M. 97.640
L.M. 97.786 TO L.M. 99.816
L.M. 99.844 TO L.M. 103.060
L.M. 103.235 TO L.M. 103.527
L.M. 103.677 TO L.M. 106.025



ROUTE 44 WBL ENTRANCE RAMP GORE AND MAINLINE
TYPICAL SECTION ON TANGENT

(QUANTITIES ARE FROM MEASURED AREA)

L.M. 97.640 TO L.M. 97.688- RTE. 8/68 MAINLINE+RAMP ENTR. GORE
L.M. 103.527 TO L.M. 103.566- RTE. V MAINLINE+RAMP ENTR. GORE
L.M. 107.651 TO L.M. 107.854- UNIVERSITY MAINLINE+RAMP ENTR. GORE
L.M. 108.810 TO L.M. 108.993- KINGSHIGHWAY MAINLINE+RAMP ENTR. GORE
L.M. 115.265 TO L.M. 115.432- REST AREA MAINLINE+RAMP ENTR. GORE

ROUTE 44 WBL MAINLINE TO EXIT GORE

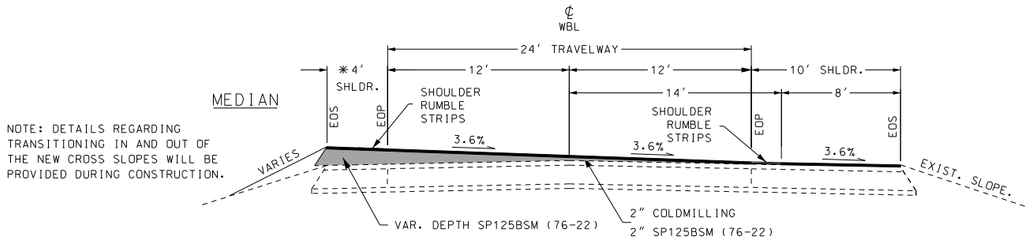
L.M. 97.353 TO L.M. 97.409 - RTE. 8/68 EXIT
L.M. 103.088 TO L.M. 103.235 - ROUTE V EXIT
L.M. 108.208 TO L.M. 108.361 - KINGSHIGHWAY EXIT
L.M. 113.356 TO L.M. 113.484 - ROUTE T EXIT
L.M. 114.777 TO L.M. 114.905 - REST AREA EXIT

GENERAL NOTES:

ESTIMATE FACTORS:
TACK = 0.08 GAL/SY FOR OVERLAY
TACK = 0.10 GAL/SY FOR MILL/FILL
SP125BSMA (PG 76-22) = 1.990 TON/CY
BP-1 (PG 64-22) = 1.948 TON/CY
BIT PVMT MIX LEVELING COURSE (PG 64-22) = 1.948 TON/CY
TYPE C UBAWS = 0.190 GAL/SY
GRAVEL = 0.039 TON/SY/IN

LOG MILES GIVEN ARE IN THE DIRECTION OF TRAFFIC.
LOG MILES ARE APPROXIMATE. VERIFY LOCATIONS IN FIELD.

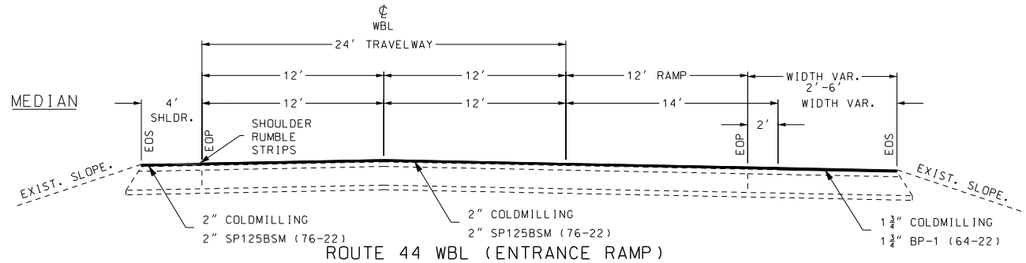
NOT TO SCALE



NOTE: DETAILS REGARDING TRANSITIONING IN AND OUT OF THE NEW CROSS SLOPES WILL BE PROVIDED DURING CONSTRUCTION.

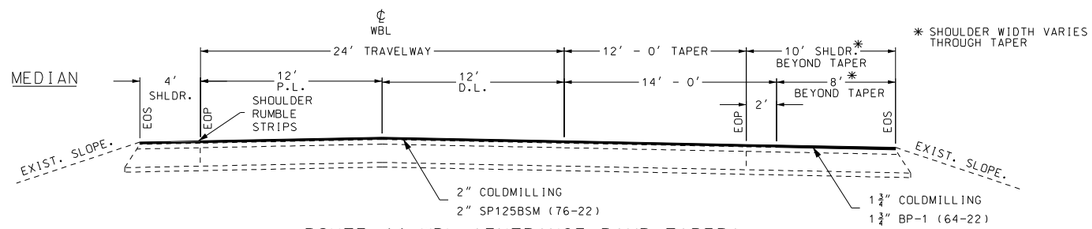
ROUTE 44 WESTBOUND LANE (WBL SUPERELEVATION)
TYPICAL SECTION ON TANGENT

L.M. 95.4 TO L.M. 95.6



ROUTE 44 WBL (ENTRANCE RAMP)
ROUTE V EXIT RAMP
TYPICAL SECTION ON TANGENT

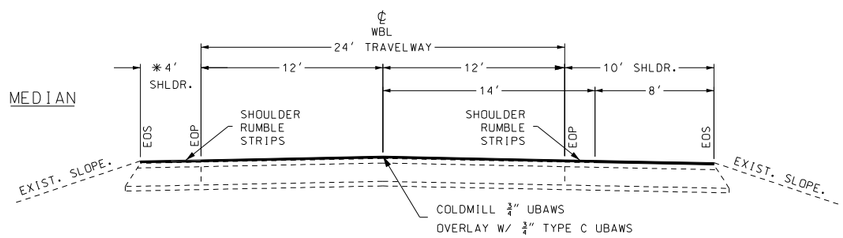
L.M. 97.688 TO L.M. 97.768- RTE. 8/68 MAINLINE+RAMP ACCEL LANE
L.M. 103.566 TO L.M. 103.643 - RTE. V MAINLINE+RAMP ACCEL LANE



* SHOULDER WIDTH VARIES THROUGH TAPER

ROUTE 44 WBL (ENTRANCE RAMP TAPER)
ROUTE 44 WBL EXIT RAMP DECEL LANE TAPER
TYPICAL SECTION ON TANGENT

L.M. 97.768 TO L.M. 97.789 - RTE. 8/68 MAINLINE+RAMP ACCEL LANE TAPER
L.M. 103.060 TO L.M. 103.088 - RTE. V MAINLINE+RAMP DECEL LANE TAPER
L.M. 103.643 TO L.M. 103.677 - ROUTE V MAINLINE+RAMP ACCEL LANE TAPER



ROUTE 44
TYPICAL SECTION ON TANGENT

L.M. 106.810 TO L.M. 107.326 WB
L.M. 186.074 TO L.M. 186.337 EB

NOT TO SCALE

TYPICAL SECTIONS
I-44 WESTBOUND LANE
SHEET 2 OF 4

STATE OF MISSOURI
JASON S. DOHRMANN
PE-2004017159
PROFESSIONAL ENGINEER

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

DATE PREPARED: 9/23/2021
ROUTE: I-44 | STATE: MO
DISTRICT: CD | SHEET NO.: 2
COUNTY: PHELPS/CRAWFD
JOB NO.: J5I3397
CONTRACT ID.:
PROJECT NO.:
BRIDGE NO.:

DESCRIPTION | DATE | REV.

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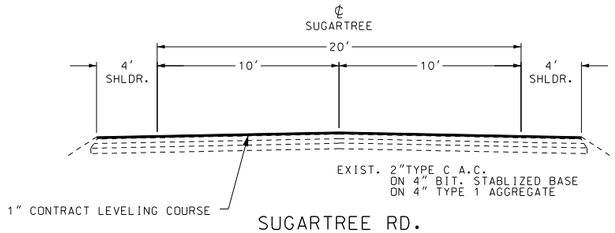
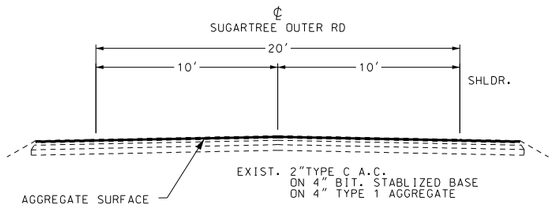


SUGARTREE RD.
TYPICAL SECTION ON TANGENT

L.M. 0.079 TO L.M. 0.252 (CRD 8490)
L.M. 0.039 (CRD 8490) TO L.M. 0.146 (CRD 7300)

BRIDGE EXCEPTION: L.M. 0.039 TO L.M. 0.079 (CRD 8490)



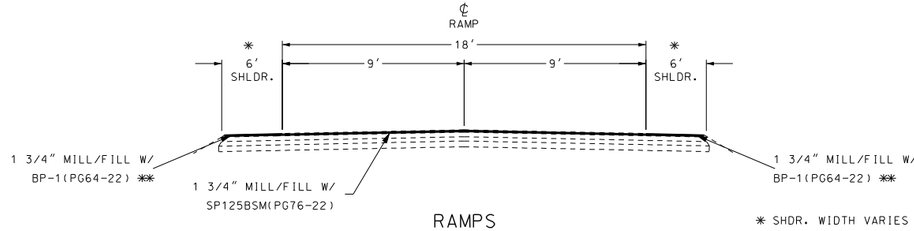
SUGARTREE OUTER RD.
TYPICAL SECTION ON TANGENT

L.M. 0.014 TO L.M. 0.132 (SUGARTREE OR)

GENERAL NOTES:

ESTIMATE FACTORS:
TACK = 0.08 GAL/SY FOR OVERLAY
TACK = 0.10 GAL/SY FOR MILL/FILL
SP125BSMA (PG 76-22) = 1.990 TON/CY
BP-1 (PG 64-22) = 1.948 TON/CY
BIT PVMT MIX LEVELING COURSE (PG 64-22) = 1.948 TON/CY
TYPE C UBAWS = 0.190 GAL/SY
GRAVEL = 0.039 TON/SY/IN

LOG MILES GIVEN ARE IN THE DIRECTION OF TRAFFIC.
LOG MILES ARE APPROXIMATE. VERIFY LOCATIONS IN FIELD.

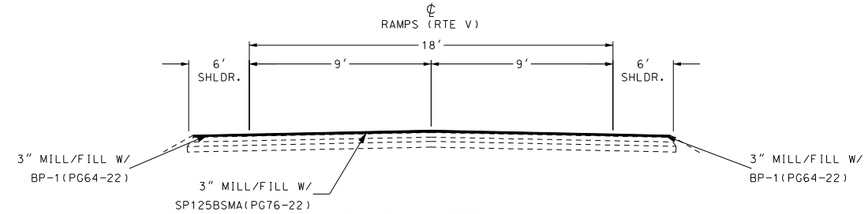


RAMPS
TYPICAL SECTION ON TANGENT

* SHDR. WIDTH VARIES

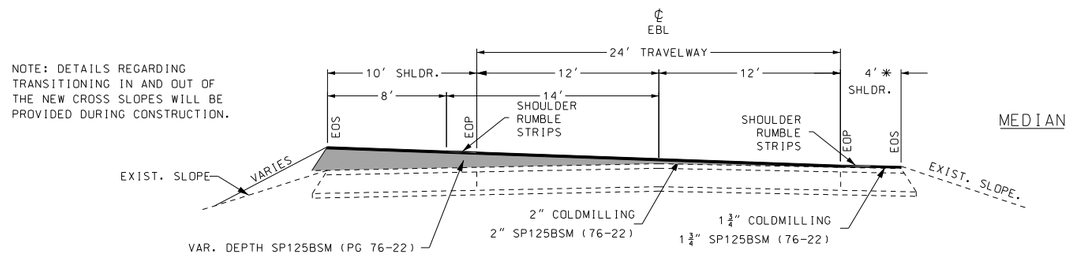
** IF SHOULDER IS 4' OR LESS, USE P125BSMA. SEE PLANS.

L.M. 0.060 TO L.M. 0.216 - SUGARTREE EBL EXIT RAMP
L.M. 0.004 TO L.M. 0.191 - SUGARTREE EBL ENTR. RAMP
L.M. 0.042 TO L.M. 0.117 - REST AREA EBL EXIT RAMP
L.M. 0.304 TO L.M. 0.348 - REST AREA EBL ENTR. RAMP
L.M. 0.023 TO L.M. 0.237 - ROUTE T EBL EXIT RAMP
L.M. 0.003 TO L.M. 0.219 - ROUTE T EBL ENTR. RAMP
L.M. 0.041 TO L.M. 0.263 - KINGSHIGHWAY EBL EXIT RAMP
L.M. 0.150 TO L.M. 0.275 - KINGSHIGHWAY EBL ENTR. RAMP
L.M. 0.031 TO L.M. 0.186 - ROUTE E EBL EXIT RAMP
L.M. 0.063 TO L.M. 0.246 - ROUTE 63 EBL EXIT RAMP
L.M. 0.006 TO L.M. 0.126 - ROUTE 63 EBL ENTR. RAMP
L.M. 0.010 TO L.M. 0.121 - ROUTE 68/ROUTE 8 EBL EXIT RAMP
L.M. 0.010 TO L.M. 0.122 - ROUTE 68/ROUTE 8 EBL ENTR. RAMP
L.M. 0.032 TO L.M. 0.255 - ROUTE F EBL EXIT RAMP
L.M. 0.004 TO L.M. 0.232 - ROUTE F EBL ENTR. RAMP



RAMPS - RTE. V
TYPICAL SECTION ON TANGENT

L.M. 0.016 TO L.M. 0.156 EB
L.M. 0.013 TO L.M. 0.174 EB
L.M. 0.029 TO L.M. 0.192 WB
L.M. 0.005 TO L.M. 0.136 WB



ROUTE 44 EASTBOUND LANE (EBL SUPERELEVATION)
TYPICAL SECTION ON TANGENT
L.M. 197.540 TO L.M. 197.740

NOT TO SCALE

TYPICAL SECTIONS
SUGARTREE RD. / RAMPS
SHEET 3 OF 4

JASON S. DOHRMANN
PE-2004017159
STATE OF MISSOURI
PROFESSIONAL ENGINEER

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

DATE PREPARED
9/23/2021

ROUTE	STATE
I-44	MO
DISTRICT	SHEET NO.
CD	2

COUNTY
PHELPS/CRAWFD

JOB NO.
J5I3397

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

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

REV.	DESCRIPTION	DATE

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

HR GREEN, INC.
16020 SWINGLEY RIDGE ROAD.
SUITE 205
ST. LOUIS, MISSOURI 63017
PHONE: (636) 519.0990
CORPORATE LICENSE #2002006608

HRGreen®

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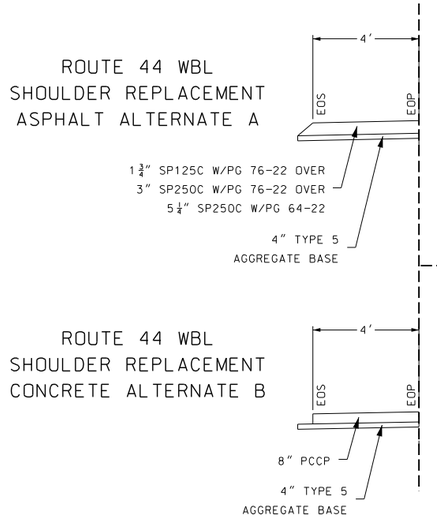
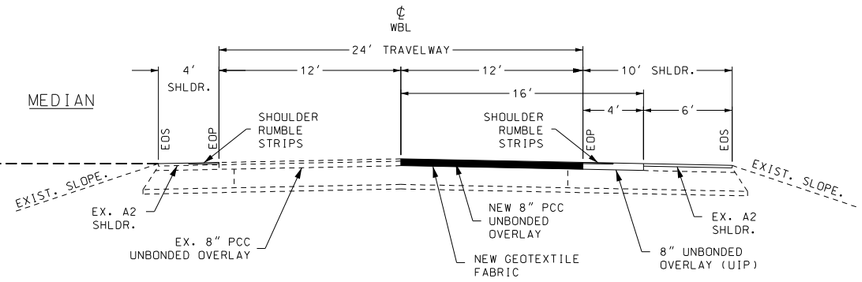
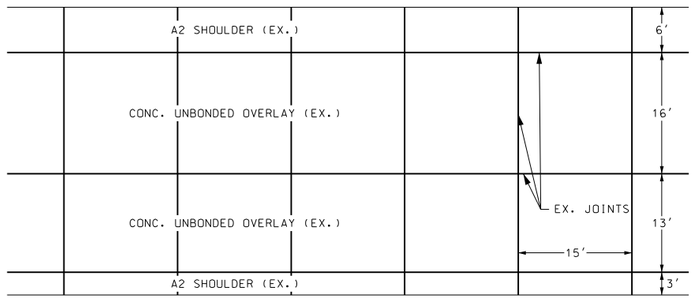




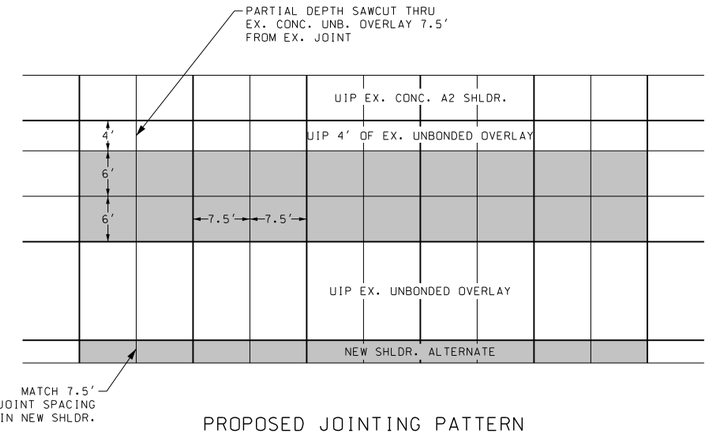
ROUTE 44 WBL
TYPICAL SECTION ON TANGENT

L.M. 110.813 TO L.M. 116.630

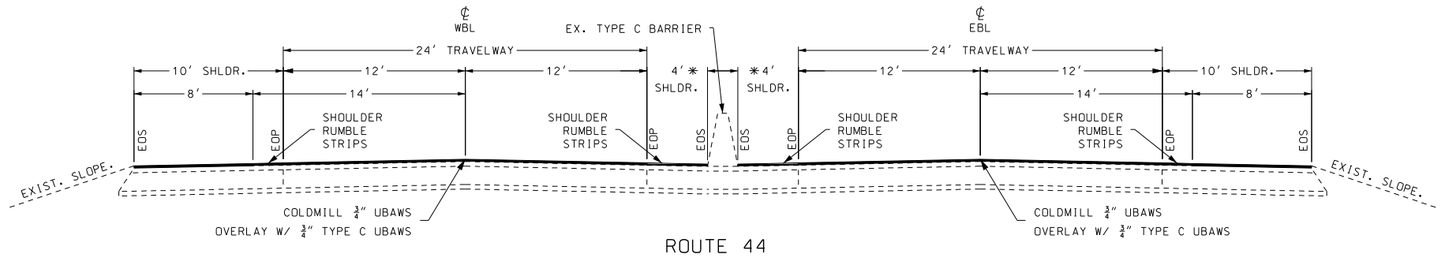
NOTE:
FOR CONCRETE PAVEMENTS WITH 15-FOOT JOINT SPACING, TWELVE (12) RUMBLE STRIPS SHALL BE MILLED PER PANEL.



I-44 WB
8" CONC. UNBONDED OVERLAY
EXIST. CONDITION



PROPOSED JOINTING PATTERN



ROUTE 44
TYPICAL SECTION ON TANGENT

L.M. 106.810 TO L.M. 107.326 WB

L.M. 186.074 TO L.M. 186.337 EB

GENERAL NOTES:

ESTIMATE FACTORS:
TACK = 0.08 GAL/SY FOR OVERLAY
TACK = 0.10 GAL/SY FOR MILL/FILL
SP125BSMA (PG 76-22) = 1.990 TON/CY
BP-1 (PG 64-22) = 1.948 TON/CY
BIT PVMT MIX LEVELING COURSE (PG 64-22) = 1.948 TON/CY
TYPE C UBAWS = 0.190 GAL/SY
GRAVEL = 0.039 TON/SY/IN

LOG MILES GIVEN ARE IN THE DIRECTION OF TRAFFIC.
LOG MILES ARE APPROXIMATE. VERIFY LOCATIONS IN FIELD.

TYPICAL SECTIONS
UNBONDED OVERLAY/UBAWS
SHEET 4 OF 4

NOT TO SCALE

STATE OF MISSOURI
ANDREA J. SCHUMANN
PE-2018021250
PROFESSIONAL ENGINEER

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

DATE PREPARED
10/5/2021

ROUTE	STATE
I-44	MO
DISTRICT	SHEET NO.
CD	2

COUNTY
PHELPS/CRAWFD

JOB NO.
J5I3397

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)

HR GREEN, INC.
16020 SWINGLEY RIDGE ROAD.
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ST. LOUIS, MISSOURI 63017
PHONE: (636) 519.0990
CORPORATE LICENSE #2002006608

HRGreen

REV.

REMOVAL OF IMPROVEMENTS - EB LANES

LOG MILE	LOG MILE	LOCATION	APPROX. QUANTITY LF	APPROX. QUANTITY SF	APPROX. QUANTITY EACH	DESCRIPTION
176.502	176.542	CL MED. I44	422.0			EXIST GUARDRAIL, POSTS, END ANCHORS, CET'S
176.462	176.525	EBL-RT	335.0			EXIST GUARDRAIL, POSTS, END ANCHORS, CET'S
176.892	177.056	EBL - RT	864.25			EXIST GUARDRAIL, POSTS, END ANCHORS, CET'S
177.203	177.385	EBL - RT	963.00			EXIST GUARDRAIL, POSTS, END ANCHORS, CET'S
177.963	177.790	EBL-RT	32.00			EXIST GUARDRAIL, POSTS
178.984	179.133	EBL - RT	785.00			EXIST GUARDRAIL, POSTS, END ANCHORS, CET'S
179.421	179.461	EBL - RT	422.00			EXIST GUARDRAIL, POSTS, END ANCHORS, CET'S
180.069	180.121	EBL - RT	277.00			EXIST GUARDRAIL, POSTS, END ANCHORS, CET'S
181.202	181.761	EBL - RT	2,950.00			EXIST GUARDRAIL, POSTS, END ANCHORS, CET'S
182.065	182.342	EBL - RT	1,460.00			EXIST GUARDRAIL, POSTS, END ANCHORS, CET'S
182.460	182.548	EBL - RT	464.00			EXIST GUARDRAIL, POSTS, END ANCHORS, CET'S
183.127	183.205	EBL - LT, RT	414.25			EXIST GUARDRAIL, POSTS, END ANCHORS, CET'S
183.501	184.221	EBL - RT	3,802.50			EXIST GUARDRAIL, POSTS, END ANCHORS, CET'S
STA.55+30	STA.93+56	EBL-LT	3,812.50			EXIST GUARDRAIL, POSTS, CET'S
STA.55+25	STA.93+65	EBL-LT		19,126.20		SHOULDER
STA.57+37	-	EBL-LT			1	INLET
STA.57+37	-	EBL-LT	7.00			18" RCP
STA.60+65	-	EBL-LT			1	SIGN, POST
STA.61+27	-	EBL-LT			2	LOGO SIGN FOOTINGS
STA.64+90	-	EBL-LT			1	SIGN, POSTS AND FOOTINGS
STA.69+22	-	EBL-LT			2	LOGO SIGN FOOTINGS
STA.71+40	-	EBL-LT			1	SIGN, POST
STA.71+39	-	EBL-LT	17.00			15" RCP
STA.75+92	-	EBL-LT			2	LOGO SIGN FOOTINGS
STA.76+26	-	EBL-LT			1	SIGN, POST AND FOOTING
STA.77+71	-	EBL-LT			1	INLET
STA.77+71	-	EBL-LT	6.00			15" RCP
STA.79+60	-	EBL-LT			2	LOGO SIGN FOOTINGS
STA.81+98	-	EBL-LT			1	SING, POST
STA.85+65	-	EBL-LT			1	INLET
STA.85+65	-	EBL-LT	2.00			15" RCP
STA.92+00	-	EBL-LT			1	SIGNS, POST AND FOOTINGS
STA.92+63	-	EBL-LT			1	SIGN, POST
STA.55+25	STA.93+65	EBL-LT	3,835.00			SAWCUT
184.590	184.631	EBL - RT	216.00			EXIST GUARDRAIL, POSTS, END ANCHORS, CET'S
184.560	184.610	EBL - RT	526.00			EXIST GUARDRAIL, POSTS, END ANCHORS, CET'S
184.877	184.951	EBL - RT	389.25			EXIST GUARDRAIL, POSTS, END ANCHORS
184.590	185.663	EBL - RT	206.00			EXIST GUARDRAIL, POSTS, END ANCHORS, CET'S
185.623	185.662	EBL - RT	412.00			EXIST GUARDRAIL, POSTS, END ANCHORS, CET'S
186.084	186.107	EBL - RT	120.00			EXIST GUARDRAIL, POSTS, END ANCHORS, CET'S
186.343	186.363	EBL - RT	125.00			EXIST GUARDRAIL, POSTS, END ANCHORS, CET'S
184.590	186.648	EBL - RT	180.00			EXIST GUARDRAIL, POSTS, END ANCHORS, CET'S
STA.100+14	STA.104+40	EBL-RT	425.00			EXIST GUARDRAIL, POSTS, CET'S
STA.103+63		EBL-RT			1.00	CONCRETE HEADWALL & WINGWALLS
STA.103+63		EBL-RT		8.00		CONCRETE APRON
STA.103+63		EBL-RT	3.00			18" RCP
STA.103+00	STA.104+38	EBL-RT		274.00		CONCRETE DITCH
189.657	189.741	EBL - RT	445.00			EXIST GUARDRAIL, POSTS, END ANCHORS, CET'S
189.723	189.758	EBL - RT	370.00			EXIST GUARDRAIL, POSTS, END ANCHORS, CET'S
189.980		EBL - RT	550.00			EXIST GUARDRAIL, POSTS, END ANCHORS, CET'S
190.700		EBL - RT	550.00			EXIST GUARDRAIL, POSTS, END ANCHORS, CET'S
191.980		EBL - RT	475.00			EXIST GUARDRAIL, POSTS, END ANCHORS, CET'S
192.860		EBL - RT	1,050.00			EXIST GUARDRAIL, POSTS, END ANCHORS, CET'S
193.220		EBL - RT	1,025.00			EXIST GUARDRAIL, POSTS, END ANCHORS, CET'S
193.425		EBL - RT	1,000.00			EXIST GUARDRAIL, POSTS, END ANCHORS, CET'S
194.300		EBL - RT	400.00			EXIST GUARDRAIL, POSTS, END ANCHORS, CET'S
184.875	184.951	EBL-RT	430.00			EXIST GUARDRAIL, POSTS, END ANCHORS, CET'S
195.572	195.683	EBL - RT	587.00			EXIST GUARDRAIL, POSTS, END ANCHORS, CET'S
195.588	195.640	CL MED. I44	275.00			EXIST MEDIAN PIER PROTECTION GUARDRAIL, POSTS, CET'S
-0.194		RT. 8 ON RAMP	1,025.00			EXIST GUARDRAIL, POSTS, END ANCHORS, CET'S
-0.080		EBL - RT	425.00			EXIST GUARDRAIL, POSTS, END ANCHORS, CET'S
200.029	200.059	EBL - RT	156.00			EXIST GUARDRAIL, POSTS, END ANCHORS, CET'S
STA.53+19	STA.54+59	EBL - LT&RT	140.00			EXIST GUARDRAIL, POSTS, CET'S
203.359	203.386	EBL - RT	140.00			EXIST GUARDRAIL, POSTS, END ANCHORS, CET'S
203.360		CL MED. I44	334.00			EXIST GUARDRAIL, POSTS, END ANCHORS, CET'S
0.075	1.302	RTE. 8 EXIT RAMP	418.00			EXIST GUARDRAIL, POSTS, END ANCHORS, CET'S
		TO SB RTE. 8				
SUGAR TREE OVERPASS BRIDGE			289.00			BR. GR, POSTS, END ANCHORS, CET'S
REMOVAL OF IMPROVEMENTS = 1 LUMP SUM						

MOBILIZATION	1 LUMP SUM
ADDITIONAL MOBILIZATION FOR SEEDING	2 EACH
SEEDING - COOL SEASON MIXTURES	4 ACRES
TEMPORARY SEEDING AND MULCHING	2 ACRES
RADAR SPEED ADVISORY SYSTEM	4 EACH
WORK ZONE INTELLIGENT TRANSPORTATION SYSTEM	1 LUMP SUM
TRAFFIC SIGNAL MAINTENANCE AND PROGRAMMING	1 LUMP SUM
MISC. GUARDRAIL BLOCKOUT REPAIR/REPLACEMENT	15 STA.
CONTRACTOR FURNISHED SURVEYING AND STAKING	1 LUMP SUM

SUMMARY OF QUANTITIES
SHEET 1 OF 22

STATE OF MISSOURI
JASON S. DOHRMANN
PE-2004017159
PROFESSIONAL ENGINEER

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

DATE PREPARED
9/23/2021

ROUTE	STATE
I-44	MO

DISTRICT	SHEET NO.
CD	3

COUNTY
PHELPS/CRAWFD

JOB NO.
J5I3397

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

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

DESCRIPTION	DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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

HR GREEN, INC.
16020 SWINGLEY RIDGE ROAD,
SUITE 205
ST. LOUIS, MISSOURI 63017
PHONE: (636) 519.0990
CORPORATE LICENSE #2002006608

HRGreen®

GRAVEL (A), CRUSHED STONE (B)

LOG MILE	LOG MILE	LOCATION	LENGTH FT	WIDTH FT	AREA SF	AREA SY	THICKNESS IN	APPROX GRAVEL TONS	REMARKS
EASTBOUND LANES									
0.014	0.132	SUGARTREE OUTER RD	653	VAR	15196	1688	4	263	REPLACE ROADWAY SURFACE
0.004	0.191	SUGARTREE RD EBL ENTR RAMP	987	10	9870	1097	1	43	RUT REPAIRS ALONG RT RAMP SHDR
0.023	0.237	ROUTE T EBL EXIT RAMP	1130	6	6780	753	4	117	REBUILD LT SHDR
0.023	0.237	ROUTE T EBL EXIT RAMP	1130	10	11300	1256	4	196	REBUILD RT SHDR
0.003	0.219	ROUTE T EBL ENTR RAMP	1140	8	9120	1013	1	40	RUT REPAIRS ALONG LT RAMP SHDR
0.003	0.219	ROUTE T EBL ENTR RAMP	1140	12	13680	1520	1	59	RUT REPAIRS ALONG RT RAMP SHDR
180.203		EBL MEDIAN TURNAROUND	45	28	1260	140	1	5	RUT REPAIRS AT CENTER TURNAROUND
182.492		EBL MEDIAN TURNAROUND	50	90	4500	500	1	20	RUT REPAIRS AT CENTER TURNAROUND
0.041	0.263	KINGSHIGHWAY EBL EXIT RAMP	1172	12	14064	1563	1	61	RUT REPAIRS ALONG RT RAMP SHDR
0.15	0.275	KINGSHIGHWAY EBL ENTR RAMP	660	12	7920	880	1	34	RUT REPAIRS ALONG RT RAMP SHDR
188.733		EBL MEDIAN TURNAROUND	30	30	900	100	1	4	RUT REPAIRS AT CENTER TURNAROUND
0.016	0.156	ROUTE V EBL EXIT RAMP	739	6	4434	493	1	19	RUT REPAIRS ALONG LT RAMP SHDR
0.013	0.174	ROUTE V EBL ENTR RAMP	850	10	8500	944	1	37	RUT REPAIRS ALONG RT RAMP SHDR
191.341		EBL MEDIAN TURNAROUND	30	45	1350	150	1	6	RUT REPAIRS AT CENTER TURNAROUND
193.131		EBL MEDIAN TURNAROUND	35	50	1750	194	1	8	RUT REPAIRS AT CENTER TURNAROUND
198.232		EBL MEDIAN TURNAROUND	35	50	1750	194	1	8	RUT REPAIRS AT CENTER TURNAROUND
201.194		EBL MEDIAN TURNAROUND	45	45	2025	225	1	9	RUT REPAIRS AT CENTER TURNAROUND
0.032	0.255	ROUTE F EBL EXIT RAMP	1177	6	7062	785	1	31	RUT REPAIRS ALONG LT RAMP SHDR
0.004	0.232	ROUTE F EBL ENTR RAMP	1204	8	9632	1070	1	42	RUT REPAIRS ALONG LT RAMP SHDR
WESTBOUND LANES									
0.043	0.213	SUGARTREE RD WBL EXIT RAMP	898	8	7184	798	1	31	RUT REPAIRS ALONG LT RAMP SHDR
0.014	0.203	ROUTE T WBL ENTR RAMP	998	12	11976	1331	1	52	RUT REPAIRS ALONG RT RAMP SHDR
0.029	0.137	ROUTE V WBL EXIT RAMP	570	8	4560	507	1	20	RUT REPAIRS ALONG RT RAMP SHDR
0.005	0.136	ROUTE V WBL ENTR RAMP	692	10	6920	769	1	30	RUT REPAIRS ALONG RT RAMP SHDR
0.028	0.135	ROUTE 68 WBL ENTR RAMP	565	8	4520	502	1	20	RUT REPAIRS ALONG LT RAMP SHDR
							SUBTOTAL	1155	
							PAY TOTAL	1160	

REMOVAL OF IMPROVEMENTS - WB LANES

LOG MILE	LOG MILE	LOCATION	APPROX QUANTITY LF	DESCRIPTION
89.733	89.747	WBL - RT	75.00	EXIST GUARDRAIL, POSTS, CET'S
93.034	93.076	WBL - RT	220.00	EXIST GUARDRAIL, POSTS, END ANCHORS, CET'S
STA.53+64	STA.55+04	WBL - LT&RT	140.00	EXIST GUARDRAIL, POSTS, CET'S
95.057	95.098	WBL - RT	216.00	EXIST GUARDRAIL, POSTS, END ANCHORS, CET'S
95.738	95.798	WBL - RT	316.00	EXIST GUARDRAIL, POSTS, END ANCHORS, CET'S
97.498	97.543	WBL - RT	236.00	EXIST GUARDRAIL, POSTS, END ANCHORS, CET'S
99.695		WBL - RT	662.50	EXIST GUARDRAIL, POSTS, END ANCHORS, CET'S
99.755		WBL - RT	387.50	EXIST GUARDRAIL, POSTS, END ANCHORS, CET'S
103.314	103.390	WBL - RT	400.00	EXIST GUARDRAIL, POSTS, END ANCHORS, CET'S
103.887	104.048	WBL - RT	850.00	EXIST GUARDRAIL, POSTS, END ANCHORS, CET'S
104.158	104.291	WBL - RT	700.00	EXIST GUARDRAIL, POSTS, END ANCHORS, CET'S
104.870	104.950	WBL - RT	425.00	EXIST GUARDRAIL, POSTS, END ANCHORS, CET'S
106.470	106.500	WBL - RT	160.00	EXIST GUARDRAIL, POSTS, END ANCHORS, CET'S
-0.350		WBL - RT	1850.00	EXIST GUARDRAIL, POSTS, END ANCHORS, CET'S
-0.189		WBL - RT	1000.00	EXIST GUARDRAIL, POSTS, END ANCHORS, CET'S
107.290	107.311	WBL - RT	113.00	EXIST GUARDRAIL, POSTS, END ANCHORS, CET'S
107.464	107.502	WBL - RT	203.00	EXIST GUARDRAIL, POSTS, END ANCHORS, CET'S
108.100	108.280	WBL - RT	952.50	EXIST GUARDRAIL, POSTS, END ANCHORS, CET'S
108.344		WBL - RT	1150.00	EXIST GUARDRAIL, POSTS, END ANCHORS, CET'S
108.526	108.584	WBL - RT	305.00	EXIST GUARDRAIL, POSTS, END ANCHORS, CET'S
108.745		WBL - RT	2500.00	EXIST GUARDRAIL, POSTS, END ANCHORS, CET'S
109.736	109.838	WBL - RT	537.50	EXIST GUARDRAIL, POSTS, END ANCHORS, CET'S
109.794	109.827	WBL - RT	175.00	EXIST GUARDRAIL, POSTS, END ANCHORS, CET'S
110.719	110.921	WBL - RT	1065.00	EXIST GUARDRAIL, POSTS, END ANCHORS, CET'S
111.332	111.713	WBL - RT	2011.00	EXIST GUARDRAIL, POSTS, END ANCHORS, CET'S
111.852	111.980	WBL - RT	675.00	EXIST GUARDRAIL, POSTS, END ANCHORS, CET'S
113.186	113.300	WBL - RT	600.00	EXIST GUARDRAIL, POSTS, END ANCHORS, CET'S
-0.265		WBL - RT	1400.00	EXIST GUARDRAIL, POSTS, END ANCHORS, CET'S
STA.150+00	STA.155+00	WBL-RT	500.00	EXIST GUARDRAIL, CET'S
116.006	116.288	WBL - RT	1487.00	EXIST GUARDRAIL, POSTS, END ANCHORS, CET'S
116.430		WBL - RT	1400.00	EXIST GUARDRAIL, POSTS, END ANCHORS, CET'S
116.535	116.600	WBL - RT	341.00	EXIST GUARDRAIL, POSTS, CET
		RTE. V WBL EXIT RAMP	38.00	EXIST RCP AND FES
REMOVAL OF IMPROVEMENTS = 1 LUMP SUM				

MODIFIED LINEAR GRADING - CLASS 2

LOG MILE	LOG MILE	LOCATION	LENGTH FT	MODIFIED LINEAR GRADING CLASS 2 100FT	REMARKS
EBL - INSIDE SHOULDER					
197.540	197.740	EBL	1056.000	10.560	SUPERELEVATION
WBL - INSIDE SHOULDER					
95.400	95.600	WBL	1056.000	10.560	SUPERELEVATION
			SUBTOTAL	21	
			PAY TOTAL	30	

EARTHWORK

XS SHEET NO	ROADWAY	UNCLASSIFIED EXCAVATION CY	FILL CY	COMPACTING EMBANKMENT CY	EMBANKMENT IN PLACE CY
1-7	LOCATION A	412	13		
8-35	LOCATION B	13876	502		
36-39	LOCATION C	215	707		
	SUBTOTAL	14503	1222	1222	0
	PAY TOTAL	14503		1222	

NOTES:
1. UNADJUSTED VOLUMES.
2. DISPOSE EXCESS MATERIAL OFF R/W OR AS APPROVED BY THE ENGINEER.

SUMMARY OF QUANTITIES
SHEET 2 OF 22

STATE OF MISSOURI
JASON S. DOHRMANN
PE-2004017159
PROFESSIONAL ENGINEER

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

DATE PREPARED
9/23/2021

ROUTE	STATE
I-44	MO
DISTRICT	SHEET NO.
CD	3

COUNTY
PHELPS/CRAWFD

JOB NO.
J5I3397

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

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MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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JEFFERSON CITY, MO 65102
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SUITE 205
ST. LOUIS, MISSOURI 63017
PHONE: (636) 519.0990
CORPORATE LICENSE #2002006608

HRGreen®

SP125B SMA (PG 76-22) - EB LANES

LOG MILE	LOG MILE	LOCATION	LENGTH FT	AVERAGE WIDTH FT	AREA SF	AREA SY	THICKNESS IN	SP125BSM TONS	TACK GAL	COLDMILL SY	REMARKS
176.521	176.741	EBL	1161.6	VARIES	39564	4396	2.00	479.90	439.6	4,396	MAINLINE TO GORE AT SUGARTREE
176.741	176.780	EBL	205.9	VARIES	10947	1216	2.00	132.78	121.6	1,216	GORE OF ENTR RAMP AND SHDR AT SUGARTREE RD
176.780	176.846	EBL	400.0	VARIES	20000	2222	2.00	242.59	222.2	2,222	ACCEL LANE PLUS MAINLINE AND SHDR
176.846	176.889	EBL	250.0	40	10000	1111	2.00	121.30	111.1	1,111	ACCEL LANE TAPER PLUS MAINLINE AND SHDR
176.889	177.736	EBL	4472.2	30	134166	14907	2.00	1,627.38	1,490.7	14,907	MAINLINE TO GORE AT REST AREA
177.736	177.836	EBL	579.3	VARIES	24346	2705	2.00	295.31	270.5	2,705	GORE OF REST AREA EXIT
177.836	178.142	EBL	1615.7	30	48471	5386	2.00	587.94	538.6	5,386	MAINLINE GORE TO GORE AT REST AREA
178.142	178.167	EBL	132.0	VARIES	8991	999	2.00	109.06	99.9	999	GORE OF REST AREA ENTR RAMP AND SHDR
178.167	178.223	EBL	337.0	46	15502	1722	2.00	188.03	172.2	1,722	ACCEL LANE PLUS MAINLINE AND SHDR
178.223	178.276	EBL	120.0	40	4800	533	2.00	58.22	53.3	533	ACCEL LANE TAPER PLUS MAINLINE AND SHDR
178.276	179.167	EBL	4704.5	30	141135	15682	2.00	1,711.92	1,568.2	15,682	MAINLINE TO GORE AT RTE. T
179.167	179.243	EBL	551.9	VARIES.	18731	2081	2.00	227.20	208.1	2,081	GORE AREA AT RTE. T EXIT
179.243	179.671	EBL	2259.8	30	67794	7533	2.00	822.32	753.3	7,533	MAINLINE GORE TO GORE AT RTE. T
179.671	179.727	EBL	264.4	VARIES	16038	1782	2.00	194.54	178.2	1,782	GORE AREA AT RTE. T ENTR
179.727	179.792	EBL	400.0	46	18400	2044	2.00	223.19	204.4	2,044	ACCEL LANE PLUS MAINLINE
179.792	179.839	EBL	250.0	40	10000	1111	2.00	121.30	111.1	1,111	ACCEL LANE TAPER PLUS MAINLINE
179.839	184.202	EBL	23045.0	30	691350	76817	2.00	8,385.82	7,681.7	76,817	MAINLINE TO GORE AT KINGSHIGHWAY
184.202	184.324	EBL	648.0	VARIES	35745	3972	2.00	433.57	397.2	3,972	GORE AREA AT KINGSHIGHWAY EXIT
184.324	184.797	EBL	2485.0	30	74550	8283	2.00	904.26	828.3	8,283	MAINLINE GORE TO GORE AT KINGSHIGHWAY
184.797	184.856	EBL	168.0	VARIES	19367	2152	2.00	234.91	215.2	2,152	GORE AREA PLUS SHDR AT KINGS ENTR
184.856	184.894	EBL	400.0	46	18400	2044	2.00	223.19	204.4	2,044	ACCEL LANE PLUS MAINLINE AND SHDR
184.894	184.951	EBL	200.0	40	8000	889	2.00	97.04	88.9	889	ACCEL LANE TAPER PLUS MAINLINE AND SHDR
184.951	185.450	EBL	2634.7	30	79041	8782	2.00	958.74	878.2	8,782	MAINLINE TO GORE AT RTE. E
185.450	185.511	EBL	322.1	VARIES	17204	1912	2.00	208.68	191.2	1,912	GORE AREA AT RTE. E EXIT
185.511	185.592	EBL	438.0	30	13140	1460	2.00	159.38	146.0	1,460	GORE TO END OF ASPHALT
185.592	187.120	CONCRETE SECTION - PAVEMENT REPAIR ONLY									
186.074	186.337	3/4" UBAWS OVERLAY - REMOVE, REPAIR CONC. OVERLAY W/ 3/4" UBAWS									
187.120	195.320	FULL DEPTH RECONSTRUCTION OF CONCRETE PAVEMENT - J513572									
195.320	195.425	EBL	554.4	30	16632	1848	2.00	201.74	184.8	1,848	MAINLINE TO TAPER AT RTE. 8/68
195.425	195.488	EBL	332.6	VARIES	16881	1876	2.00	204.76	187.6	1,876	DECEL TAPER TO GORE AT RTE. 8/68
195.488	195.723	EBL	1240.8	30	37224	4136	2.00	451.51	413.6	4,136	MAINLINE GORE TO GORE AT RTE. 8/68
195.723	195.767	EBL	232.3	VARIES	10919	1213	2.00	132.44	121.3	1,213	GORE AREA AT RTE. 8/68 ENTR
195.767	195.841	EBL	400.0	46	18400	2044	2.00	223.19	204.4	2,044	ACCEL LANE PLUS MAINLINE AND SHDR AT 8/68
195.841	195.868	EBL	200.0	40	8000	889	2.00	97.04	88.9	889	ACCEL TAPER PLUS MAINLINE AND SHDR
195.868	203.060	EBL	37973.8	30	1139214	126579	2.00	13,818.24	12,657.9	126,579	MAINLINE TO GORE AT RTE. F
197.540	197.740	EBL	1056.0	16	16896	1877	2.00	204.94	187.7		2 IN. WEDGE COURSE
203.060	203.173	EBL	596.6	VARIES	22611	2512	2.00	274.26	251.2	2,512	GORE AREA AT RTE. F EXIT
203.173	203.631	EBL	2418.2	30	72546	8061	2.00	879.96	806.1	8,061	MAINLINE GORE TO GORE AT RTE. F
203.631	203.680	EBL	258.7	VARIES	11958	1329	2.00	145.05	132.9	1,329	GORE AREA AT RTE. F ENTR
203.680	203.775	EBL	450.0	42	18900	2100	2.00	229.25	210.0	2,100	ACCEL LANE PLUS MAINLINE AT RTE. F
203.775	203.793	EBL	200.0	36	7200	800	2.00	87.33	80.0	800	ACCEL TAPER PLUS MAINLINE AT RTE. F
203.793	204.620	EBL	4366.6	30	130998	14555	2.00	1,588.96	1,455.5	14,555	RTE. F TO BEGIN CONC/END OF PROJECT
							SUBTOTAL	37,287.2	34,156.0	339,683.0	
							SUBTOTAL (1)	28,522.5	26,253.0	260,653.0	(1) SUBTOTAL FROM SP125 WBL TABLE
							SUBTOTAL (2)	3,224.9	3,141.3	31,413.0	(2) SUBTOTAL FROM SP125 EB RAMPS TABLE
							SUBTOTAL (3)	557.4	340.4	3,404.0	(3) SUBTOTAL FROM SP125 WB RAMPS TABLE
							SUBTOTAL (4)		8,087.2	80,872.0	(4) SUBTOTAL FROM BP-1 EBL SHDRS TABLE
							SUBTOTAL (5)		6,461.8	64,618.0	(5) SUBTOTAL FROM BP-1 WBL SHDRS TABLE
							SUBTOTAL (6)		723.4	7,234.0	(6) SUBTOTAL FROM BP-1 EB RAMP SHDRS TABLE
							SUBTOTAL (8)			21,357.8	(8) SUBTOTAL FROM UBAWS TABLE
							SUBTOTAL (9)		661.6		(9) SUBTOTAL FROM LEVELING COURSE TABLE
							PAY TOTAL	69,592.0	79,830	809,240	

SUMMARY OF QUANTITIES
SHEET 3 OF 22

STATE OF MISSOURI
JASON S. DOHRMANN
PE-2004017159
PROFESSIONAL ENGINEER

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

DATE PREPARED
9/23/2021

ROUTE	STATE
I-44	MO
DISTRICT	SHEET NO.
CD	3

COUNTY
PHELPS/CRAWFD

JOB NO.
J513397

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)

HR GREEN, INC.
16020 SWINGLEY RIDGE ROAD,
SUITE 205
ST. LOUIS, MISSOURI 63017
PHONE: (636) 519.0990
CORPORATE LICENSE #2002006608
HRGreen

SP125B SMA (PG 76-22) - WB LANES

LOG MILE	LOG MILE	LOCATION	LENGTH FT	AVERAGE WIDTH FT	AREA SF	AREA SY	SP125BSM THICKNESS IN	SP125BSM TONS	TACK GAL	COLDMILL SY	REMARKS
91.927	97.353	WBL	28649.3	30	859479	95498	2.00	10,425.16	9,549.8	95,498	MAINLINE TO GORE OF RTE. 8/68 EXIT
95.400	95.600	WBL	1056.0	16	16896	1877	2.00	204.94	187.7		2 IN. WEDGE COURSE
97.353	97.409	WBL	295.7	VARIES	10915	1213	2.00	132.39	121.3	1,213	GORE AREA AT EXIT RAMP TO RTE. 8/68
97.409	97.640	WBL	1219.7	30	36591	4066	2.00	443.84	406.6	4,066	MAINLINE GORE TO GORE AT RTE. 8/68
97.640	97.688	WBL	253.4	VARIES	7801	867	2.00	94.62	86.7	867	ENTRANCE RAMP GORE AT RTE. 8/68
97.688	97.768	WBL	422.4	42	17741	1971	2.00	215.19	197.1	1,971	ACCEL LANE PLUS MAINLINE
97.768	97.786	WBL	95.0	36	3420	380	2.00	41.48	38.0	380	ACCEL TAPER
97.786	99.816	WBL	10718.4	30	321552	35728	2.00	3,900.31	3,572.8	35,728	FROM RTE. 68/8 TO BRIDGE EXCEPTION
99.816	99.844	BRIDGE L0527 EXCEPTION									
99.844	103.060	WBL	16980.5	30	509415	56602	2.00	6,179.02	5,660.2	56,602	FROM BRIDGE EXCEPTION TO RTE. V EXIT
103.060	103.088	WBL	150.0	36	5400	600	2.00	65.50	60.0	600	DECEL TAPER PLUS MAINLINE AT RTE. V EXIT
103.088	103.184	WBL	400.0	42	16800	1867	2.00	203.78	186.7	1,867	DECEL LANE PLUS MAINLINE
103.184	103.235	WBL	232.0	VARIES	12631	1403	2.00	153.21	140.3	1,403	GORE AREA AT EXIT TO RTE. V
103.235	103.527	WBL	1541.8	30	46254	5139	2.00	561.04	513.9	5,139	MAINLINE GORE TO GORE AT RTE. V
103.527	103.566	WBL	190.0	VARIES	9303	1034	2.00	112.84	103.4	1,034	ENTRANCE RAMP GORE AREA AT RTE V
103.566	103.643	WBL	400.0	46	18400	2044	2.00	223.19	204.4	2,044	ACCEL LANE PLUS MAINLINE AT RTE V
103.643	103.677	WBL	200.0	40	8000	889	2.00	97.04	88.9	889	ACCEL TAPER
103.677	106.025	WBL	12397.4	30	371922	41325	2.00	4,511.28	4,132.5	41,325	TO END OF ASPHALT /BEGIN CONC.
106.025	106.810	CONCRETE SECTION - PAVEMENT REPAIR ONLY									
106.810	107.326	UBAWS OVERLAY - MILL OUT/REPAIR CONC SECTIONS/REPLACE									
107.326	107.651	CONCRETE SECTION - PAVEMENT REPAIR ONLY									
107.651	107.720	WBL	190.0	VARIES	3380	376	1.75	35.87	37.6	376	ENTR RAMP GORE AREA AND SHOULDER AT RTE E
107.720	107.790	WBL	400.0	16	6400	711	1.75	67.93	71.1	711	ACCEL LANE ONLY AT RTE E
107.790	107.836	WBL	200.0	12	2400	267	1.75	25.47	26.7	267	ACCEL TAPER ONLY
107.836	108.280	CONCRETE SECTION - PAVEMENT REPAIR ONLY									
108.280	108.361	WBL	400.0	VARIES	8042	894	1.75	85.35	89.4	894	EXIT RAMP GORE AREA AND SHDR AT KINGSHIGHWAY
108.361	108.810	CONCRETE SECTION - PAVEMENT REPAIR ONLY									
108.810	108.993	WBL	966.2	VARIES	12847	1427	1.75	136.35	142.7	1,427	ENTR RAMP GORE AREA AND SHDR AT KINGSHIGHWAY
108.993	110.813	CONCRETE SECTION - PAVEMENT REPAIR ONLY									
113.356	113.484	WBL	675.8	VARIES	11842	1316	1.75	125.68	131.6	1,316	EXIT RAMP GORE AREA AND SHDR AT RTE. T
114.777	114.905	WBL	675.8	VARIES	9964	1107	1.75	105.75	110.7	1,107	EXIT RAMP GORE AREA AND SHDR AT REST AREA
115.265	115.432	WBL	881.8	VARIES	12867	1430	1.75	136.56	143.0	1,430	ENTR RAMP GORE AREA AND SHDR AT REST AREA
116.250	116.454	WBL	1077.1	VARIES	22495	2499	1.75	238.75	249.9	2,499	EXIT RAMP GORE AREA AND SHDR AT SUGARTREE RD
110.813	116.630	CONCRETE SECTION - PAVEMENT REPAIR P.L. AND UNBONDED OVERLAY IN D.L. - TO SUGARTREE RD INTERCHANGE / END OF CONC PVMT.									
							SUBTOTAL	28,522.54	26,253.00	260,653	(1) SEE SP125 EBL FOR PAY TOTAL

TYPE C UBAWS

LOG MILE	LOG MILE	LOCATION	LENGTH (FT)	AVERAGE WIDTH (FT)	AREA SF	AREA SY	THICKNESS (IN)	TYPE C UBAWS SY	COLMILL SY	REMARKS
186.074	186.337	I44 EBL	1387.60	46	63829.60	7092.18	0.75	7092.2	7092.2	3/4" UBAWS OVERLAY - REMOVE, REPAIR CONC, OVERLAY W/ 3/4" UBAWS
106.810	107.311	I44 WBL	2791.10	46	128390.60	14265.62	0.75	14265.6	14265.6	3/4" UBAWS OVERLAY - REMOVE, REPAIR CONC, OVERLAY W/ 3/4" UBAWS
							SUBTOTAL	21357.8	21357.8	
							PAY TOTAL	21358.0	(8)	(8) SEE SP125 EBL TABLE FOR PAY TOTAL

BITUMINOUS PAVEMENT MIXTURE (1 IN. LEVELING COURSE)

LOG MILE	LOG MILE	LOCATION	LENGTH (FT)	AVERAGE WIDTH (FT)	AREA SF	AREA SY	THICKNESS (IN)	BITUMINOUS PVMT MIXTURE PG64-22 1 IN.CLC (TONS)	TACK (GAL)	REMARKS
0.252	0.079	SUGARTREE RD / CRD 8490	1280.1	VAR 22-100	40910	4546	1.00	245.97	363.7	STATE MAINTENANCE SIGN TO BRIDGE
0.039	0.146	SUGARTREE RD / CRD 7300	959.4	VAR 22-100	33512	3724	1.00	201.49	297.9	BRIDGE TO STATE MAINTENANCE SIGN
							SUBTOTAL	447.46	661.60	
							PAY TOTAL	537.0	(9)	(9) SEE SP125 EBL TABLE FOR PAY TOTAL

NOTE: 20% ADDED TO CLC QUANTITY TO ACCOUNT FOR IRREGULARITIES.

SUMMARY OF QUANTITIES
SHEET 4 OF 22

STATE OF MISSOURI
ANDREA J. SCHUMANN
PE-2018021250
PROFESSIONAL ENGINEER

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

DATE PREPARED
10/5/2021

ROUTE	STATE
I-44	MO
DISTRICT	SHEET NO.
CD	3

COUNTY
PHELPS/CRAWFD

JOB NO.
J5I3397

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)

HR GREEN, INC.
16020 SWINGLEY RIDGE ROAD.
SUITE 205
ST. LOUIS, MISSOURI 63017
PHONE: (636) 519.0990
CORPORATE LICENSE #2002006608

HRGreen®

SP125B SMA (PG 76-22) - EB RAMPS											
LOG MILE	LOG MILE	LOCATION	LENGTH FT	AVERAGE WIDTH FT	AREA SF	AREA SY	THICKNESS IN	SP125BSM TONS	TACK GAL	COLDMILL SY	REMARKS
SUGARTREE RD											
0.060	0.198	EBL EXIT RAMP	731.6	18	13169	1463	1.75	139.77	146.3	1,463	FROM GORE TO RADIUS PT
0.198	0.216	EBL EXIT RAMP	111.7	VAR	4590	510	1.75	48.72	51.0	510	RADIUS PT TO OUTER RD EOP
0.004	0.020	EBL ENTR RAMP	85.0	VAR	3820	424	1.75	40.54	42.4	424	OUTER RD EOP TO RADIUS PT
0.020	0.191	EBL ENTR RAMP	889.2	18	16005	1778	1.75	169.87	177.8	1,778	FROM RADIUS PT TO GORE
ROUTE T											
0.023	0.224	EBL EXIT RAMP	1027.9	18	18503	2056	1.75	196.38	205.6	2,056	GORE PT. TO RADIUS PT
0.224	0.237	EBL EXIT RAMP	61.0	VAR	2058	229	1.75	21.84	22.9	229	RADIUS PT TO INTERSECTION
0.003	0.017	EBL ENTR. RAMP	80.5	VAR	3340	371	1.75	35.45	37.1	371	INTERSECTION TO RADIUS PT
0.017	0.219	EBL ENTR. RAMP	1061.0	18	19098	2122	1.75	202.70	212.2	2,122	RADIUS PT TO GORE
KINGSHIGHWAY											
0.041	0.263	EBL EXIT RAMP	1144.2	18	20596	2288	1.75	218.59	228.8	2,288	GORE PT TO CONCRETE
0.150	0.275	EBL ENTR. RAMP	804.0	18	14472	1608	1.75	153.60	160.8	1,608	CONCRETE TO GORE PT
ROUTE E											
0.031	0.045	EBL EXIT RAMP	725.1	18	13052	1450	1.75	138.53	145.0	1,450	GORE PT TO WIDENING TAPER
0.045	0.073	EBL EXIT RAMP	150.0	21	3150	350	1.75	33.43	35.0	350	RAMP WIDTH TAPER
0.073	0.173	EBL EXIT RAMP	361.0	24	8664	963	1.75	91.95	96.3	963	FROM TAPER TO RADIUS PT
0.173	0.186	EBL EXIT RAMP	87.0	VAR	3162	351	1.75	33.56	35.1	351	FROM RADIUS PT TO INTERSECTION
		EBL ENTR. RAMP									UIP CONCRETE PAVEMENT
ROUTE 63											
0.063	0.075	EBL EXIT RAMP	62.0								UIP CONCRETE PAVEMENT
0.075	0.213	EBL EXIT RAMP	743.0	VAR	17086	1898	1.75	181.34	189.8	1,898	VARIABLE WIDTH TO RADIUS PT
0.213	0.246	EBL EXIT RAMP	128.0	VAR	5472	608	1.75	58.08	60.8	608	RADIUS PT TO RTE. 63
0.006	0.041	EBL ENTR. RAMP	151.0	VAR.	6906	767	1.75	73.30	76.7	767	RTE. 63 TO RADIUS PT
0.041	0.126	EBL ENTR RAMP	447.0	VAR	11858	1318	1.75	125.85	131.8	1,318	RADIUS PT TO BEGIN OF CONCRETE
ROUTE V											
0.016	0.141	EBL EXIT RAMP	647.0	18	11646	1294	3.00	211.89	129.4	1,294	FROM GORE TO RADIUS PT
0.127	0.141	EBL EXIT RAMP	84.0	VAR	2874	319	3.00	52.29	31.9	319	FROM RADIUS PT TO RTE. V EOP
0.013	0.174	EBL ENTR. RAMP	836.0	18	15048	1672	3.00	273.79	167.2	1,672	FROM RADIUS PT TO GORE PT
ROUTE 68 / ROUTE 8											
0.010	0.102	EBL EXIT RAMP	519.0	18	9342	1038	1.75	99.15	103.8	1,038	GORE PT TO RADIUS PT AT RTE. 8
0.102	0.121	EBL EXIT RAMP	89.0	VAR	2417	269	1.75	25.65	26.9	269	RADIUS PT TO RTE. 8 INTERSECTION
0.010	0.025	EBL ENTR. RAMP	57.9	VAR	1673	186	1.75	17.76	18.6	186	INTERSECTION TO RADIUS PT.
0.025	0.122	EBL ENTR. RAMP	572.00	18.00	10296.00	1144	1.75	109.28	114.4	1,144	RADIUS PT TO GORE PT
ROUTE F											
0.032	0.248	EBL EXIT RAMP	1131.0	18	20358	2262	1.75	216.07	226.2	2,262	FROM GORE TO RADIUS PT
0.248	0.255	EBL EXIT RAMP	59.9	VAR	1384	154	1.75	14.69	15.4	154	FROM RADIUS POINT TO RTE F EOP
0.004	0.015	EBL ENTR. RAMP	76.0	VAR	2366	263	1.75	25.11	26.3	263	FROM RTE F EOP TO RADIUS PT
0.015	0.232	EBL ENTR RAMP	1129.0	18	20322	2258	1.75	215.69	225.8	2,258	RADIUS PT TO GORE
							SUBTOTAL	3,224.87	3,141.3	31,413	(2) SEE SP125 EBL FOR PAY TOTAL

SP125B SMA (PG 76-22) - WB RAMPS											
LOG MILE	LOG MILE	LOCATION	LENGTH FT	AVERAGE WIDTH FT	AREA SF	AREA SY	THICKNESS IN	SP125BSM TONS	TACK GAL	COLDMILL SY	REMARKS
ROUTE V											
0.029	0.175	WBL EXIT RAMP	826.0	18	14868	1652	3.00	270.52	165.2	1,652	FROM GORE TO RADIUS PT
0.175	0.192	WBL EXIT RAMP	72.0	VAR	1830	203	3.00	33.30	20.3	203	FROM RADIUS PT TO RTE. V EOP
0.005	0.016	WBL ENTR. RAMP	93.0	VAR	2671	297	3.00	48.60	29.7	297	RTE V EOP TO RADIUS PT
0.016	0.136	WBL ENTR. RAMP	626.0	18	11268	1252	3.00	205.02	125.2	1,252	RADIUS PT TO GORE PT
							SUBTOTAL	557.44	340.4	3,404	(3) SEE SP125 EBL FOR PAY TOTAL

SUMMARY OF QUANTITIES
SHEET 5 OF 22

STATE OF MISSOURI
JASON S. DOHRMANN
PE-2004017159
PROFESSIONAL ENGINEER

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

DATE PREPARED
9/23/2021

ROUTE	STATE
I-44	MO

DISTRICT	SHEET NO.
CD	3

COUNTY
PHELPS/CRAWFD

JOB NO.
J5I3397

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DESCRIPTION	DATE

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

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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

MoDOT

HR GREEN, INC.
16020 SWINGLEY RIDGE ROAD.
SUITE 205
ST. LOUIS, MISSOURI 63017
PHONE: (636) 519.0990
CORPORATE LICENSE #2002006608

HRGreen®

BP-1 (PG 64-22) - EB OUTSIDE SHOULDERS

LOG MILE	LOG MILE	LOCATION	LENGTH FT	AVERAGE WIDTH FT	AREA SF	AREA SY	THICKNESS IN	BP-1 TONS	TACK GAL	COLDMILL SY	REMARKS
176.521	176.741	EBL	1161.6	8	9293	1033	1.75	97.78	103.3	1,033	MAINLINE TO GORE AT SUGARTREE
176.741	176.780	EBL	205.9	2							GORE OF ENTR RAMP - SHDR INCL IN PVMT QTY
176.780	176.846	EBL	400.0	2							ACCEL LANE - SHDR INCL IN PVMT QTY
176.846	176.889	EBL	250.0	2							ACCEL LANE TAPER - SHDR INCL IN PVMT QTY
176.889	177.736	EBL	4472.2	8	35778	3975	1.75	376.44	397.5	3,975	MAINLINE TO GORE AT REST AREA
177.736	177.836	EBL	579.3	2							GORE OF REST AREA EXIT - SHDR INCL IN PVMT QTY
177.836	178.142	EBL	1615.7	8	12926	1436	1.75	136.00	143.6	1,436	MAINLINE GORE TO GORE AT REST AREA
178.142	178.167	EBL	132.0	2							GORE OF REST AREA - SHDR INCL IN PVMT QTY
178.167	178.223	EBL	337.0	2							ACCEL LANE - SHDR INCL IN PVMT QTY
178.223	178.276	EBL	120.0	2							ACCEL LANE TAPER - SHDR INCL IN PVMT QTY
178.276	179.167	EBL	4704.5	8	37636	4182	1.75	395.99	418.2	4,182	MAINLINE TO GORE AT RTE. T
179.167	179.243	EBL	551.9	7	3863	429	1.75	40.64	42.9	429	GORE AREA AT RTE. T EXIT
179.243	179.671	EBL	2259.8	8	18078	2009	1.75	190.21	200.9	2,009	MAINLINE GORE TO GORE AT RTE. T
179.671	179.727	EBL	264.4	2							GORE AREA AT RTE. T ENTR - SHDR INCL IN PVMT QTY
179.727	179.792	EBL	400.0	2							ACCEL LANE - SHDR INCL IN PVMT QTY
179.792	179.839	EBL	250.0	2							ACCEL LANE TAPER - SHDR INCL IN PVMT QTY
179.839	183.632	EBL	20027.0	8	160216	17802	1.75	1,685.73	1,780.2	17,802	MAINLINE TO GORE AT KINGSHIGHWAY
183.632	184.230	EBL	3157.4	5	15787	1754	1.75	166.10	175.4	1,754	ADJACENT TO NEW SHDR WIDENING
184.230	184.324	EBL	496.3	8	3970	441	1.75	41.77	44.1	441	GORE AREA AT KINGSHIGHWAY EXIT
184.324	184.797	EBL	2497.4	8	19979	2220	1.75	210.21	222.0	2,220	MAINLINE GORE TO GORE AT KINGSHIGHWAY
184.797	184.856	EBL	168.0	2							GORE AREA AT KINGS ENTR - SHDR INCL IN PVMT QTY
184.856	184.894	EBL	400.0	2							ACCEL LANE - SHDR INCL IN PVMT QTY
184.894	184.951	EBL	200.0	2							ACCEL LANE TAPER - SHDR INCL IN PVMT QTY
184.951	185.450	EBL	2634.7	8	21078	2342	1.75	221.77	234.2	2,342	MAINLINE TO GORE AT RTE. E
185.450	185.511	EBL	322.1	7	2255	251	1.75	23.73	25.1	251	GORE AREA AT RTE. E EXIT
185.511	185.592	EBL	438.0	8	3504	389	1.75	36.87	38.9	389	GORE TO END OF ASPHALT
185.592	187.120	CONCRETE SECTION - PAVEMENT REPAIR ONLY									
186.074	186.337	3/4" UBAWS OVERLAY - REMOVE, REPAIR CONC, OVERLAY W/ 3/4" UBAWS									
187.120	195.320	FULL DEPTH RECONSTRUCTION OF CONCRETE PAVEMENT - J5I3572									
195.320	195.425	EBL	554.4	8	4435	493	1.75	46.66	49.3	493	MAINLINE TO TAPER AT RTE. 8/68
195.425	195.488	EBL	332.6	7	2328	259	1.75	24.49	25.9	259	DECEL TAPER TO GORE AT RTE. 8/68
195.488	195.723	EBL	1240.8	8	9926	1103	1.75	104.44	110.3	1,103	MAINLINE GORE TO GORE AT RTE. 8/68
195.723	195.767	EBL	232.3	2							GORE AREA AT RTE. 8/68 ENTR - SHDR INCL IN PVMT QTY
195.767	195.841	EBL	400.0	2							ACCEL LANE - SHDR INCL IN PVMT QTY
195.841	195.868	EBL	200.0	2							ACCEL TAPER - SHDR INCL IN PVMT QTY
195.868	203.060	EBL	37973.8	8	303790	33754	1.75	3,196.36	3,375.4	33,754	MAINLINE TO GORE AT RTE. F
203.060	203.173	EBL	596.6	7	4176	464	1.75	43.94	46.4	464	GORE AREA AT RTE. F EXIT
203.173	203.631	EBL	2418.2	8	19346	2150	1.75	203.55	215.0	2,150	MAINLINE GORE TO GORE AT RTE. F
203.631	203.680	EBL	258.7	6	1552	172	1.75	16.33	17.2	172	GORE AREA AT RTE. F ENTR
203.680	203.775	EBL	450.0	4	1800	200	1.75	18.94	20.0	200	ACCEL LANE AT RTE. F
203.775	203.793	EBL	200.0	6	1200	133	1.75	12.63	13.3	133	ACCEL TAPER AT RTE. F
203.793	204.620	EBL	4366.6	8	34933	3881	1.75	367.55	388.1	3,881	RTE. F TO BEGIN CONC/END OF PROJECT
							SUBTOTAL	7,658.1	8,087.20	80,872	
							SUBTOTAL (10)	6,119.0			(10) SUBTOTAL FROM BP-1 WBL SHDRS TABLE
							SUBTOTAL (11)	684.8			(11) SUBTOTAL FROM BP-1 EB RAMP SHDRS TABLE
							PAY TOTAL	14,461.9	(4)	(4)	(4) SEE SP125EBL TABLE FOR PAY TOTAL

SUMMARY OF QUANTITIES
SHEET 6 OF 22

STATE OF MISSOURI
JASON S. DOHRMANN
PE-2004017159
PROFESSIONAL ENGINEER

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

DATE PREPARED: 9/23/2021

ROUTE	STATE
I-44	MO

DISTRICT	SHEET NO.
CD	3

COUNTY: PHELPS/CRAWFD

JOB NO.: J5I3397

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)

HR GREEN, INC.
16020 SWINGLEY RIDGE ROAD,
SUITE 205
ST. LOUIS, MISSOURI 63017
PHONE: (636) 519.0990
CORPORATE LICENSE #2002006608

HRGreen®

BP-1 (PG 64-22) - WB OUTSIDE SHOULDERS

LOG MILE	LOG MILE	LOCATION	LENGTH FT	AVERAGE WIDTH FT	AREA SF	AREA SY	THICKNESS IN	BP-1 TONS	TACK GAL	COLDMILL SY	REMARKS
91.927	97.353	WBL	28649.3	8	229194	25466	1.75	2,411.49	2,546.6	25,466	MAINLINE TO GORE OF RTE. 8/68 EXIT
97.353	97.409	WBL	295.7	7	2070	230	1.75	21.78	23.0	230	GORE AREA AT EXIT RAMP TO RTE. 8/68
97.409	97.640	WBL	1219.7	8	9758	1084	1.75	102.67	108.4	1,084	MAINLINE GORE TO GORE AT RTE. 8/68
97.640	97.688	WBL	253.4	6	1520	169	1.75	15.99	16.9	169	ENTRANCE RAMP GORE AT RTE. 8/68
97.688	97.768	WBL	422.4	4	1690	188	1.75	17.78	18.8	188	ACCEL LANE
97.768	97.786	WBL	95.0	6	570	63	1.75	6.00	6.3	63	ACCEL TAPER
97.786	99.816	WBL	10718.4	8	85747	9527	1.75	902.20	952.7	9,527	FROM RTE. 68/8 TO BRIDGE EXCEPTION
99.816	99.844	BRIDGE L0527 EXCEPTION									
99.844	103.060	WBL	16980.5	8	135844	15094	1.75	1,429.30	1,509.4	15,094	FROM BRIDGE EXCEPTION TO RTE. V EXIT
103.060	103.088	WBL	150.0	6	900	100	1.75	9.47	10.0	100	DECEL TAPER AT RTE. V EXIT
103.088	103.184	WBL	400.0	4	1600	178	1.75	16.83	17.8	178	DECEL LANE
103.184	103.235	WBL	232.0	5	1160	129	1.75	12.21	12.9	129	GORE AREA AT EXIT TO RTE. V
103.235	103.527	WBL	1541.8	8	12334	1370	1.75	129.77	137.0	1,370	MAINLINE GORE TO GORE AT RTE. V
103.527	103.566	WBL	190.0	2							ENTRANCE RAMP GORE AREA - SHDR INCL IN PVMT QTY
103.566	103.643	WBL	400.0	2							ACCEL LANE AT RTE V - SHDR INCL IN PVMT QTY
103.643	103.677	WBL	200.0	2							ACCEL TAPER - SHDR INCL IN PVMT QTY
103.677	106.025	WBL	12397.4	8	99179	11020	1.75	1,043.52	1,102.0	11,020	TO END OF ASPHALT /BEGIN CONC.
106.025	106.810	CONCRETE SECTION - PAVEMENT REPAIR ONLY									
106.810	107.326	UBAWS OVERLAY - MILL OUT/REPAIR CONC SECTIONS/REPLACE									
107.326	107.651	CONCRETE SECTION - PAVEMENT REPAIR ONLY									
107.651	107.720	WBL	190.0	2							ENTR RAMP GORE AREA AT RTE. E- SHDR INCL IN PVMT QTY
107.720	107.790	WBL	400.0	2							ACCEL LANE - SHDR INCL IN PVMT QTY
107.790	107.836	WBL	200.0	2							ACCEL TAPER - SHDR INCL IN PVMT QTY
107.836	108.280	CONCRETE SECTION - PAVEMENT REPAIR ONLY									
108.280	108.361	WBL	400.0	2							EXIT RAMP GORE AREA AT KINGSHIGHWAY - SHDR INCL IN PVMT QTY
108.361	108.810	CONCRETE SECTION - PAVEMENT REPAIR ONLY									
108.810	108.993	WBL	966.2	2							ENTR RAMP GORE AREA AT KINGSHIGHWAY - SHDR INCL IN PVMT QTY
108.993	110.813	CONCRETE SECTION - PAVEMENT REPAIR ONLY									
113.356	113.484	WBL	675.8	2							EXIT RAMP GORE AREA AT KINGSHIGHWAY - SHDR INCL IN PVMT QTY
114.777	114.905	WBL	675.8	2							EXIT RAMP GORE AREA AT REST AREA - SHDR INCL IN PVMT QTY
115.265	115.432	WBL	881.8	2							ENTR RAMP GORE AREA AT REST AREA - SHDR INCL IN PVMT QTY
116.250	116.454	WBL	1077.1	2							EXIT RAMP GORE AREA AT SUGARTREE RD - SHDR INCL IN PVMT QTY
110.813	116.630	CONCRETE SECTION - PAVEMENT REPAIR P.L. AND UNBONDED OVERLAY IN D.L. - TO SUGARTREE RD INTERCHANGE / END OF CONC PVMT.									
							SUBTOTAL	6,119.01	6,461.80	64,618	(5) SEE SP125 EBL TABLE FOR PAY TOTAL
							PAY TOTAL	(10)	(5)	(5)	(10) SEE BP-1 EBL SHDR TABLE FOR PAY TOTAL

SUMMARY OF QUANTITIES
SHEET 7 OF 22

STATE OF MISSOURI
JASON S. DOHRMANN
PE-2004017159
PROFESSIONAL ENGINEER

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

DATE PREPARED
9/23/2021

ROUTE I-44 | STATE MO
DISTRICT CD | SHEET NO. 3
COUNTY PHELPS/CRAWFD
JOB NO. J5I3397
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)

HR GREEN, INC.
16020 SWINGLEY RIDGE ROAD.
SUITE 205
ST. LOUIS, MISSOURI 63017
PHONE: (636) 519.0990
CORPORATE LICENSE #2002006608
HRGreen®

BP-1 (PG 64-22) - EB RAMP SHOULDERS

LOG MILE	LOG MILE	LOCATION	LENGTH FT	AVERAGE WIDTH FT	AREA SF	AREA SY	THICKNESS IN	BP-1 TONS	TACK GAL	COLDMILL SY	REMARKS
SUGARTREE RD											
0.060	0.198	EBL EXIT RAMP	731.6	12	8779	975	1.75	92.37	97.5	975	FROM GORE TO RADIUS PT - RT SHDR
0.198	0.216	EBL EXIT RAMP	111.7	VAR	1490	166	1.75	15.68	16.6	166	RADIUS PT TO OUTER RD EOP - RT SHDR
0.004	0.020	EBL ENTR RAMP	85.0	VAR							UIP AGGREGATE SHDR
0.020	0.191	EBL ENTR RAMP	889.2	12							UIP AGGREGATE SHDR
ROUTE T											
0.023	0.224	EBL EXIT RAMP	1027.9	12							SEE AGGREGATE QTY
0.224	0.237	EBL EXIT RAMP	61.0	VAR							SEE AGGREGATE QTY
0.003	0.017	EBL ENTR. RAMP	80.5	VAR							UIP AGGREGATE SHDR
0.017	0.219	EBL ENTR. RAMP	1061.0	12							UIP AGGREGATE SHDR
KINGSHIGHWAY											
0.041	0.102	EBL EXIT RAMP	294.0	12	3528	392	1.75	37.12	39.2	392	GORE PT TO EX AGG SHDR - RT SHDR
0.150	0.275	EBL ENTR. RAMP	804.0	12							UIP AGGREGATE SHDR
ROUTE E											
0.031	0.045	EBL EXIT RAMP	725.1	10	7251	806	1.75	76.29	80.6	806	GORE PT TO WIDENING TAPER - RT SHDR
0.045	0.073	EBL EXIT RAMP	150.0	7	1050	117	1.75	11.05	11.7	117	RAMP WIDTH TAPER - RT SHDR
0.031	0.173	EBL EXIT RAMP	726.0	4	2904	323	1.75	30.55	32.3	323	FROM TAPER TO RADIUS PT - LT SHDR
0.173	0.186	EBL EXIT RAMP	87.0	4	348	39	1.75	3.66	3.9	39	FROM RADIUS PT TO INTERSECTION - LT SHDR
		EBL ENTR. RAMP									UIP CONCRETE SHDR
ROUTE 63											
0.063	0.075	EBL EXIT RAMP	62.0								UIP CONCRETE SHDR
0.075	0.213	EBL EXIT RAMP	743.0	12	8916	991	1.75	93.81	99.1	991	EX CONCRETE SHDR TO RADIUS PT - RT SHDR
0.213	0.246	EBL EXIT RAMP	128.0	6	768	85	1.75	8.08	8.5	85	RADIUS PT TO RTE. 63 - RT SHDR
0.006	0.041	EBL ENTR RAMP	151.0	6	906	101	1.75	9.53	10.1	101	RTE. 63 TO RADIUS PT - RT SHDR
0.041	0.126	EBL ENTR RAMP	447.0	6	2682	298	1.75	28.22	29.8	298	RADIUS PT TO BEGIN OF CONCRETE - RT SHDR
ROUTE V											
0.016	0.141	EBL EXIT RAMP	647.0	VAR							UIP CONCRETE AND AGGREGATE SHDRS
0.127	0.141	EBL EXIT RAMP	84.0	VAR							UIP CONCRETE AND AGGREGATE SHDRS
0.013	0.174	EBL ENTR. RAMP	836.0	VAR							UIP AGGREGATE SHDR
ROUTE 68 / ROUTE 8											
0.010	0.102	EBL EXIT RAMP	519.0	12	6228	692	1.75	65.53	69.2	692	GORE PT TO RADIUS PT - RT SHDR
0.102	0.121	EBL EXIT RAMP	89.0	12	1068	119	1.75	11.24	11.9	119	RADIUS PT TO INTERSECTION - RT SHDR
0.010	0.025	EBL ENTR. RAMP	57.9								SHDRS INCLUDED IN RAMP PVMT QTY
0.025	0.122	EBL ENTR. RAMP	572.00								SHDRS INCLUDED IN RAMP PVMT QTY
ROUTE F											
0.032	0.248	EBL EXIT RAMP	1131.0	8	9048	1005	1.75	95.20	100.5	1.005	FROM GORE TO RADIUS PT - RT SHDR
0.248	0.255	EBL EXIT RAMP	59.9	8	479	53	1.75	5.04	5.3	53	FROM RADIUS POINT TO RTE F EOP - RT SHDR
0.004	0.015	EBL ENTR. RAMP	76.0	8	608	68	1.75	6.40	6.8	68	FROM RTE F EOP TO RADIUS PT - RT SHDR
0.015	0.232	EBL ENTR RAMP	1129.0	8	9032	1004	1.75	95.03	100.4	1.004	RADIUS PT TO GORE - RT SHDR
							SUBTOTAL	684.80	723.4	7,234	(6) SEE SP125 EBL TABLE FOR PAY TOTAL
							PAY TOTAL	(11)	(6)	(6)	(11) SEE BP-1 EBL SHDR TABLE FOR PAY TOTAL

SUMMARY OF QUANTITIES
SHEET 8 OF 22

STATE OF MISSOURI
JASON S. DOHRMANN
PE-2004017159
PROFESSIONAL ENGINEER

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

DATE PREPARED
9/23/2021

ROUTE	STATE
I-44	MO

DISTRICT	SHEET NO.
CD	3

COUNTY
PHELPS/CRAWFD

JOB NO.
J5I3397

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

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

DESCRIPTION | DATE

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

HR GREEN, INC.
16020 SWINGLEY RIDGE ROAD,
SUITE 205
ST. LOUIS, MISSOURI 63017
PHONE: (636) 519.0990
CORPORATE LICENSE #2002006608

HRGreen®

ASPHALT SHOULDER REPLACEMENT

SHEET NO	ROADWAY	STA	STA	LOCATION	PAVEMENT AREA SF	BITUMINOUS TYPE A2 SHOULDER SY	TYPE 1 AGG FOR BASE 8" THICK SY	REMARKS
	LOCATION B	55+25.0	93+65.0	LT	19126.22	2125.14	2125.1	
					SUBTOTAL	2125.1	2125.1	
				SUBTOTAL (13)			352.8	(13) SUBTOTAL FROM CONCRETE SHOULDER REPLACEMENT TABLE
					PAY TOTAL	2126	2478	

CONCRETE PAVEMENT AND SHOULDER REPLACEMENT

LOG MILE	LOG MILE	LOCATION	LENGTH FT	AREA SF	CONCRETE PVMT, 8" NON-REINF. SY	TYPE 1 AGG FOR BASE 8" THICK SY	FURNISHING UNBONDED CONCRETE OVERLAY CY	8" UNBONDED OVERLAY, PCCP W/ GEOTEXTILE FABRIC BONDBREAKER (SY)	UNBONDED CONCRETE OVERLAY INTERLAYER SY	REMARKS
176.532	176.539	EBL-RT	35		44.1	44.1				REPLACE SHDR WITH NEW CONC SHDR ALONG BARRIER LOCATION
189.741	189.750	EBL - RT	45		56.7	56.7				REPLACE SHDR WITH NEW CONC SHDR ALONG BARRIER LOCATION
200.059	200.065	EBL - RT	30		37.8	37.8				REPLACE SHDR WITH NEW CONC SHDR ALONG BARRIER LOCATION
203.386	203.392	EBL - RT	30		37.8	37.8				REPLACE SHDR WITH NEW CONC SHDR ALONG BARRIER LOCATION
89.747	89.753	WBL - RT	30		37.8	37.8				REPLACE SHDR WITH NEW CONC SHDR ALONG BARRIER LOCATION
93.076	93.082	WBL - RT	30		37.8	37.8				REPLACE SHDR WITH NEW CONC SHDR ALONG BARRIER LOCATION
103.389	103.398	WBL - RT	45		56.7	56.7				REPLACE SHDR WITH NEW CONC SHDR ALONG BARRIER LOCATION
110.813	116.400	WBL-DL	29499	353783.3			8735.4	39309.3	39309.3	
116.400	116.630	WBL-DL/PL	1214	28785.47			710.8	3198.4	3198.4	
116.601	116.608	WBL - RT	35		44.1	44.1				REPLACE SHDR WITH NEW CONC SHDR ALONG BARRIER LOCATION
				SUBTOTAL	352.8	352.8	9446.2	42507.7	42507.7	
				PAY TOTAL	353	(13)	9447.0	42508.0	42508.0	(13) SEE ASPH SHDR REPLACEMENT TABLE FOR PAY TOTAL

SUMMARY OF QUANTITIES
SHEET 9 OF 22

STATE OF MISSOURI
JASON S. DOHRMANN
PE-2004017159
PROFESSIONAL ENGINEER

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

DATE PREPARED
9/23/2021

ROUTE	STATE
I-44	MO
DISTRICT	SHEET NO.
CD	3

COUNTY
PHELPS/CRAWFD

JOB NO.
J5I3397

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

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)

HR GREEN, INC.
16020 SWINGLEY RIDGE ROAD.
SUITE 205
ST. LOUIS, MISSOURI 63017
PHONE: (636) 519.0990
CORPORATE LICENSE #2002006608

HRGreen®

ALTERNATE SHOULDER A - ASPHALT

LOG MILE	LOG MILE	LOCATION	LENGTH FT	WIDTH FT	AREA SF	10" ASPHALTIC CONCRETE PAVEMENT (1) SY	4-INCH AGGREGATE BASE SY	REMARKS
110.813	116.400	WBL-DL	29499	4	117996.0	13110.7	13110.7	REPLACE WBL INSIDE SHOULDER
116.400	116.630	WBL-DL/PL	1214	4	4856.0	539.6	539.6	REPLACE WBL INSIDE SHOULDER
					SUBTOTAL	13650.3	13650.3	
					PAY TOTAL	13651	13651	

(1) ASPHALTIC CONCRETE MIXTURE:
1.75" SP125C - PG76-22
3.00 SP250C - PG76-22
5.25" SP250C - PG64-22

ALTERNATE SHOULDER RUMBLE STRIPS A - ASPHALT

LOG MILE	LOG MILE	LOCATION	LENGTH FT	BITUMINOUS SHOULDER RUMBLE STRIP STA	REMARKS
110.813	116.400	WBL	29499	295.0	WBL INSIDE SHOULDER
116.400	116.630	WBL	1214	12.1	WBL INSIDE SHOULDER
			SUBTOTAL	307.1	
			PAY TOTAL	308	

SUMMARY OF QUANTITIES
SHEET 10 OF 22

ANDREA J. SCHUMANN
PE-2018021250
STATE OF MISSOURI
PROFESSIONAL ENGINEER

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

DATE PREPARED
10/5/2021

ROUTE	STATE
I-44	MO
DISTRICT	SHEET NO.
CD	3

COUNTY
PHELPS/CRAWFD

JOB NO.
J5I3397

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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HRGreen®

ALTERNATE SHOULDER B - CONCRETE								
LOG MILE	LOG MILE	LOCATION	LENGTH FT	WIDTH FT	AREA SF	CONCRETE PAVEMENT 8" NON-REINF SY	4-INCH AGGREGATE BASE SY	REMARKS
110.813	116.400	WBL-DL	29499	4	117996.0	13110.7	13110.7	REPLACE WBL INSIDE SHOULDER
116.400	116.630	WBL-DL/PL	1214	4	4856.0	539.6	539.6	REPLACE WBL INSIDE SHOULDER
					SUBTOTAL	13650.3	13650.3	
					PAY TOTAL	13651	13651	

ALTERNATE SHOULDER RUMBLE STRIPS B - CONCRETE					
LOG MILE	LOG MILE	LOCATION	LENGTH FT	PORTLAND CEMENT CONCRETE RUMBLE STRIP STA	REMARKS
110.813	116.400	WBL	29499	295.0	WBL INSIDE SHOULDER
116.400	116.630	WBL	1214	12.1	WBL INSIDE SHOULDER
			SUBTOTAL	307.1	
			PAY TOTAL	308	

SUMMARY OF QUANTITIES
SHEET 11 OF 22

ANDREA J. SCHUMANN
PE-2018021250
STATE OF MISSOURI
PROFESSIONAL ENGINEER

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

DATE PREPARED
10/5/2021

ROUTE	STATE
I-44	MO
DISTRICT	SHEET NO.
CD	3

COUNTY
PHELPS/CRAWFD

JOB NO.
J5I3397

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)

HR GREEN, INC.
16020 SWINGLEY RIDGE ROAD,
SUITE 205
ST. LOUIS, MISSOURI 63017
PHONE: (636) 519.0990
CORPORATE LICENSE #2002006608

HRGreen®

FULL DEPTH AND PARTIAL DEPTH CONCRETE PAVEMENT REPAIR

				FULL DEPTH PAVEMENT REPAIR						PARTIAL DEPTH PAVEMENT REPAIR			
LOG MILE	LOCATION	LENGTH (FT)	WIDTH (FT)	FURNISH / PLACE CONC. MATERIAL FOR FULL DEPTH PVMT REPAIR (SY)	SUBGRADE COMPACTION (6-IN. DEPTH) PVMT REPAIR (SY)	TYPE 1 OR 5 AGGREGATE FOR BASE (4 IN THICK) (PVMT REPAIR) (SY)	FULL DEPTH PVMT REPAIR SAWCUT (FOR PERMITER AND INTERNAL) (LF)	DOWEL BAR (DRILL, FURN., AND INSTALL) FOR FULL DEPTH PVMT REPAIR (EACH)	DOWEL BAR (FURNISH, INST. WITH BASKETS) FOR FULL DEPTH PVMT REPAIR (EACH)	AREA (SF)	DEPTH (IN)	CLASS A PARTIAL DEPTH PAVEMENT REPAIR HOT POLYMER MODIFIED (LB)	NOTES
186.639	EBL-DL	12	12	16	1.60	1.60	48	22	4				
186.639	EBL	10	12	13	1.30	1.30	44	22	4				
186.786	EBL-DL	2	2							20.0	4.0	800.0	5 LOCATIONS EACH AT 2′ X 2′
186.873	EBL-DL	6	60	40	4.00	4.00	132	118	2				
186.949	EBL-DL	6	8	5	0.50	0.50	28	14	2				
186.961	EBL-PL	6	10	7	0.70	0.70	32	18	2				
186.994	EBL-DL	2	2							4.0	4.0	160.0	
187.030	EBL-DL	12	30	40	4.00	4.00	84	58	4				
187.046	EBL-DL	6	12	8	0.80	0.80	36	22	2				
187.086	EBL-DL	2	2							4.0	4.0	160.0	
187.093	EBL-DL	6	12	8	0.80	0.80	36	22	2				
187.123	BOTH	12	24	32	3.20	3.20	72	46	4				
91.940	WBL-DL	6	12	8	0.80	0.80	36	22	2				
93.452	WBL-DL	6	12	8	0.80	0.80	36	22	2				
93.744	WBL-DL	6	12	8	0.80	0.80	36	22	2				
99.811	WBL-PL	6	24	16	1.60	1.60	36	22	2				
101.442	WBL-DL	8	12	8	0.80	0.80	36	22	3				
103.799	WBL-DL	6	12	8	0.80	0.80	36	22	2				
103.817	WBL-PL	6	24	16	1.60	1.60	36	22	2				
106.062	WBL-DL	2	2							4.0	4.0	160.0	
106.117	WBL-DL/PL	4	4							16.0	4.0	640.0	TWO LOCATIONS EACH AT 2′ X 2′
106.138	WBL-PL	2	2							4.0	4.0	160.0	
106.144	WBL-DL	2	2							4.0	4.0	160.0	
106.157	WBL-PL	2	2							4.0	4.0	160.0	
106.194	WBL-PL	2	2							4.0	4.0	160.0	
106.219	WBL-DL/PL	4	4							16.0	4.0	640.0	TWO LOCATIONS EACH AT 2′ X 2′
106.224	WBL-PL	4	4							16.0	4.0	640.0	
106.328	WBL-PL	2	2							4.0	4.0	160.0	
106.815	WBL-PL	2	2							4.0	4.0	160.0	
106.850	WBL-DL	30	12	40	4.0	4.00	84	22	12				
107.510	WBL-DL	2	2							4.0	4.0	160.0	
107.511	WBL-PL	2	2							4.0	4.0	160.0	
107.532	WBL-PL	2	6							12.0	4.0	480.0	
107.790	WBL-DL	3	5							15.0	4.0	600.0	
107.854	WBL-DL	2	2							4.0	4.0	160.0	
107.867	WBL-DL	6	12	8	0.80	0.80	36	22	2				
107.878	WBL-DL	2	2							4.0	4.0	160.0	
108.036	WBL-PL	3	3							9.0	4.0	360.0	
108.074	WBL-DL	2	2							4.0	4.0	160.0	
108.140	WBL-DL	2	3							6.0	4.0	240.0	
108.157	WBL-DL	2	2							4.0	4.0	160.0	
108.182	WBL-DL	2	2							4.0	4.0	160.0	
108.431	WBL-DL	2	3							6.0	4.0	240.0	EXISTING HIGH FRICTION AREA
108.436	WBL-DL	12	12	16	1.60	1.60	48	22	4				EXISTING HIGH FRICTION AREA
108.468	WBL-DL	4	4							16.0	4.0	640.0	EXISTING HIGH FRICTION AREA
108.485	WBL-DL	4	4							16.0	4.0	640.0	EXISTING HIGH FRICTION AREA
108.513	WBL-DL	2	2							4.0	4.0	160.0	EXISTING HIGH FRICTION AREA
108.519	WBL-DL	10	12	13	1.30	1.30	44	22	4				EXISTING HIGH FRICTION AREA
108.761	WBL-DL	2	2							4.0	4.0	160.0	EXISTING HIGH FRICTION AREA
111.002	WBL-PL	2	2							4.0	4.0	160.0	
111.010	WBL-PL	2	2							4.0	4.0	160.0	
SUBTOTAL (21)				318	32	32	976	584	63			9,120	(21) SEE FOLLOWING TABLE FOR PAY TOTAL

NOTE: PARTIAL DEPTH PAVEMENT REPAIR CONVERSION FACTOR = 120 LB / CF

SUMMARY OF QUANTITIES
SHEET 12 OF 22

STATE OF MISSOURI
JASON S. DOHRMANN
PE-2004017159
PROFESSIONAL ENGINEER

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

DATE PREPARED: 9/23/2021

ROUTE	STATE
I-44	MO

DISTRICT	SHEET NO.
CD	3

COUNTY: PHELPS/CRAWFD

JOB NO.: J5I3397

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)

HR GREEN, INC.
16020 SWINGLEY RIDGE ROAD.
SUITE 205
ST. LOUIS, MISSOURI 63017
PHONE: (636) 519.0990
CORPORATE LICENSE #2002006608

HRGreen®

FULL DEPTH AND PARTIAL DEPTH CONCRETE PAVEMENT REPAIR (CONTINUED)

				FULL DEPTH PAVEMENT REPAIR						PARTIAL DEPTH PAVEMENT REPAIR			
LOG MILE	LOCATION	LENGTH (FT)	WIDTH (FT)	FURNISH / PLACE CONC. MATERIAL FOR FULL DEPTH PVMT REPAIR (SY)	SUBGRADE COMPACTION (6-IN. DEPTH) PVMT REPAIR (SY)	TYPE 1 OR 5 AGGREGATE FOR BASE (4 IN THICK) (PVMT REPAIR) (SY)	FULL DEPTH PVMT REPAIR SAWCUT (FOR PERMITER AND INTERNAL) (LF)	DOWEL BAR (DRILL, FURN., AND INSTALL) FOR FULL DEPTH PVMT REPAIR (EACH)	DOWEL BAR (FURNISH, INST. WITH BASKETS) FOR FULL DEPTH PVMT REPAIR (EACH)	AREA (SF)	DEPTH (IN)	CLASS A PARTIAL DEPTH PAVEMENT REPAIR HOT POLYMER MODIFIED (LB)	NOTES
111.388	WBL	10	12	13	1.30	1.30	44	22	4				
111.520	WBL-PL	6	12	8	0.80	0.80	36	22	2				
112.495	WBL-PL	6	12	8	0.80	0.80	36	22	2				
113.213	WBL-PL	6	12	8	0.80	0.80	36	22	2				
113.770	WBL-PL	6	12	8	0.80	0.80	36	22	2				
113.790	WBL-PL	6	12	8	0.80	0.80	36	22	2				
113.880	WBL-PL	6	12	8	0.80	0.80	36	22	2				
114.990	WBL-PL	6	12	8	0.80	0.80	36	22	2				
115.181	WBL-PL	6	12	8	0.80	0.80	36	22	2				
115.183	WBL-PL	6	12	8	0.80	0.80	36	22	2				
115.187	WBL-PL	6	12	8	0.80	0.80	36	22	2				
115.401	WBL-PL	6	12	8	0.80	0.80	36	22	2				
115.418	WBL-PL	6	12	8	0.80	0.80	36	22	2				
115.474	WBL-PL	6	12	8	0.80	0.80	36	22	2				
115.490	WBL-PL	6	12	8	0.80	0.80	36	22	2				
115.500	WBL-PL	6	12	8	0.80	0.80	36	22	2				
115.520	WBL-PL	6	12	8	0.80	0.80	36	22	2				
115.690	WBL-PL	6	12	8	0.80	0.80	36	22	2				
115.719	WBL-PL	6	12	8	0.80	0.80	36	22	2				
115.900	WBL-DL/PL	6	24	16	1.60	1.60	60	46	2				
115.990	WBL-DL/PL	6	24	16	1.60	1.60	60	46	2				
116.010	WBL-PL	6	12	8	0.80	0.80	36	22	2				
116.260	WBL-PL	6	12	8	0.80	0.80	36	22	2				
116.210	WBL-PL	6	12	8	0.80	0.80	36	22	2				
116.300	WBL-PL	6	12	8	0.80	0.80	36	22	2				
10% UNFORSEEN NEEDS				22	2.21	2.21	96	60	5				AT DISCRETION OF RESIDENT ENGINEER
	SUBTOTAL			243	24	24	1,052	658	57			0	
SUBTOTAL (21)				318	32	32	976	584	63			9,120	(21) SUBTOTAL FROM PREVIOUS TABLE
	PAY TOTAL			561	56	56	2,028	1,242	120			9,120	

* SUBGRADE COMPACTION AND AGGREGATE ARE 10% OF THE EXPECTED QUANTITIES OF FULL DEPTH PAVEMENT REMOVAL.

NOTE: PARTIAL DEPTH PAVEMENT REPAIR CONVERSION FACTOR = 120 LB / CF

* SUBGRADE COMPACTION AND AGGREGATE ARE 10% OF THE EXPECTED QUANTITIES OF FULL DEPTH PAVEMENT REMOVAL.

NOTE: PARTIAL DEPTH PAVEMENT REPAIR CONVERSION FACTOR = 120 LB / CF

SUMMARY OF QUANTITIES
SHEET 13 OF 22

STATE OF MISSOURI
JASON S. DOHRMANN
PE-2004017159
PROFESSIONAL ENGINEER

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

DATE PREPARED: 9/23/2021

ROUTE	STATE
I-44	MO

DISTRICT	SHEET NO.
CD	3

COUNTY: PHELPS/CRAWFD

JOB NO.: J5I3397

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)

HR GREEN, INC.
16020 SWINGLEY RIDGE ROAD,
SUITE 205
ST. LOUIS, MISSOURI 63017
PHONE: (636) 519.0990
CORPORATE LICENSE #2002006608

HRGreen®

PAVEMENT MARKINGS - EB LANES

LOG MILE	LOG MILE	LOCATION	LENGTH FT	HIGH BUILD WATERBORNE PAVEMENT MARKING WITH TYPE L BEADS					7" WIDE GROOVE (100 MIL) LF	13" WIDE GROOVE (100 MIL) LF	REMARKS
				6" INTER. WHITE LF	6" SOLID WHITE LF	6" SOLID YELLOW LF	12" WHITE GORE LINE LF	12" WHITE DOTTED LF			
176.521	176.741	EBL	1161.6	290	1162	1162					MAINLINE TO GORE AT SUGARTREE
176.741	176.780	EBL	205.9	103	206	206	206				GORE OF ENTR RAMP AND SHDR AT SUGARTREE RD
176.780	176.846	EBL	400.0	100	400	400					ACCEL LANE PLUS MAINLINE AND SHDR
176.846	176.889	EBL	250.0	63	250	250					ACCEL LANE TAPER PLUS MAINLINE AND SHDR
176.889	177.736	EBL	4472.2	1118	4472	4472					MAINLINE TO GORE AT REST AREA
177.736	177.836	EBL	579.3	145	579	579	579				GORE OF REST AREA EXIT
177.836	178.142	EBL	1615.7	404	1616	1616					MAINLINE GORE TO GORE AT REST AREA
178.142	178.167	EBL	132.0	33	132	132	132				GORE OF REST AREA ENTR RAMP AND SHDR
178.167	178.223	EBL	337.0	169	337	337					ACCEL LANE PLUS MAINLINE AND SHDR
178.223	178.276	EBL	120.0	30	120	120					ACCEL LANE TAPER PLUS MAINLINE AND SHDR
178.276	179.167	EBL	4704.5	1176	4705	4705					MAINLINE TO GORE AT RTE. T
179.167	179.243	EBL	551.9	138	552	552	138				GORE AREA AT RTE. T EXIT
179.243	179.671	EBL	2259.8	565	2260	2260					MAINLINE GORE TO GORE AT RTE. T
179.671	179.727	EBL	264.4	66	264	264	264				GORE AREA AT RTE. T ENTR
179.727	179.792	EBL	400.0	200	400	400					ACCEL LANE PLUS MAINLINE
179.792	179.839	EBL	250.0	63	250	250					ACCEL LANE TAPER PLUS MAINLINE
179.839	184.202	EBL	23045.0	5761	23045	23045					MAINLINE TO GORE AT KINGSHIGHWAY
184.202	184.324	EBL	648.0	162	648	648	162				GORE AREA AT KINGSHIGHWAY EXIT
184.324	184.797	EBL	2485.0	621	2485	2485					MAINLINE GORE TO GORE AT KINGSHIGHWAY
184.797	184.856	EBL	168.0	42	168	168	42				GORE AREA PLUS SHDR AT KINGS ENTR
184.856	184.894	EBL	400.0	200	400	400					ACCEL LANE PLUS MAINLINE AND SHDR
184.894	184.951	EBL	200.0	50	200	200					ACCEL LANE TAPER PLUS MAINLINE AND SHDR
184.951	185.450	EBL	2634.7	659	2635	2635					MAINLINE TO GORE AT RTE. E
185.450	185.511	EBL	322.1	81	322	322	81				GORE AREA AT RTE. E EXIT
185.511	185.592	EBL	427.7	107	428	428					GORE TO END OF ASPHALT
185.592	185.746	EBL	813.1	203	813	813					END OF ASPHALT TO RTE. E ENTR RAMP
185.592	186.074	EBL	2545.0	636	2545	2545		636			RTE. E TO UBAWS
186.074	186.337	EBL	1388.6	347	1389	1389		347			UBAWS
186.337	186.426	EBL	469.9	117	470	470	600	117			END OF UBAWS TO RTE. 63 EXIT RAMP GORE
186.426	186.754	EBL	1731.8	433	1732	1732	230				GORE TO GORE AT RTE. 63
186.754	187.120	EBL	1932.5	483	1933	1933					RTE. 63 GORE TO CONCRETE
187.120	195.320	FULL DEPTH RECONSTRUCTION OF CONCRETE PAVEMENT - J5I3572									
195.320	195.425	EBL	554.4	139	554	554			1247		MAINLINE TO TAPER AT RTE. 8/68
195.425	195.488	EBL	332.6	166	333	333	333		832	333	DECEL TAPER TO GORE AT RTE. 8/68
195.488	195.723	EBL	1240.8	310	1241	1241			2792		MAINLINE GORE TO GORE AT RTE. 8/68
195.723	195.767	EBL	232.3	58	232	232	232		522	232	GORE AREA AT RTE. 8/68 ENTR
195.767	195.841	EBL	400.0	200	400	400			1000		ACCEL LANE PLUS MAINLINE AND SHDR AT 8/68
195.841	195.868	EBL	200.0	50	200	200			450		ACCEL TAPER PLUS MAINLINE AND SHDR
195.868	203.060	EBL	37973.8	9493	37974	37974			85441		MAINLINE TO GORE AT RTE. F
203.060	203.173	EBL	596.6	149	597	597	597		1343	597	GORE AREA AT RTE. F EXIT
203.173	203.631	EBL	2418.2	605	2418	2418			5441		MAINLINE GORE TO GORE AT RTE. F
203.631	203.680	EBL	258.7	65	259	259	259		583	259	GORE AREA AT RTE. F ENTR
203.680	203.775	EBL	450.0	113	450	450			1013		ACCEL LANE PLUS MAINLINE AT RTE. F
203.775	203.793	EBL	200.0	50	200	200			450		ACCEL TAPER PLUS MAINLINE AT RTE. F
203.793	204.620	EBL	4366.6	1092	4367	4367			9826		RTE. F TO BEGIN CONC/END OF PROJECT
			SUBTOTAL	27055.0	106143.0	106143.0	3855.0	1100.0	110940.0	1421.0	
			SUBTOTAL (14)	32472.0	128789.0	128789.0	4010.0	834.0			(14) SUBTOTAL FROM WB LANE PVMT MARKINGS
			SUBTOTAL (15)		14052.0	17009.0					(15) SUBTOTAL FROM EB RAMP PVMT MARKINGS
			SUBTOTAL (16)		1617.0	1617.0					(16) SUBTOTAL FROM WB RAMP PVMT MARKINGS
				6" WHITE		6" YELLOW	12" WHITE				
			PAY TOTAL	310128		253558	9799		110940	1421	

NOTE: ALL PAVEMENT MARKINGS TO MATCH EXISTING. LOCATE PRIOR TO RESURFACING.

SUMMARY OF QUANTITIES
SHEET 14 OF 22

STATE OF MISSOURI
JASON S. DOHRMANN
PE-2004017159
PROFESSIONAL ENGINEER

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

DATE PREPARED 9/23/2021

ROUTE	STATE
I-44	MO

DISTRICT	SHEET NO.
CD	3

COUNTY: PHELPS/CRAWFD
JOB NO.: J5I3397
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)

HR GREEN, INC.
16020 SWINGLEY RIDGE ROAD.
SUITE 205
ST. LOUIS, MISSOURI 63017
PHONE: (636) 519.0990
CORPORATE LICENSE #2002006608
HRGreen®

PAVEMENT MARKINGS - WB LANES

LOG MILE	LOG MILE	LOCATION	LENGTH FT	HIGH BUILD WATERBORNE PAVEMENT MARKING WITH TYPE L BEADS					REMARKS
				6" INTER. WHITE LF	6" SOLID WHITE LF	6" SOLID YELLOW LF	12" WHITE GORE LINE LF	12" WHITE DOTTED LF	
91.927	97.353	EBL	28649.3	7162	28649	28649			MAINLINE TO GORE OF RTE. 8/68 EXIT
97.353	97.409	EBL	295.7	148	296	296	296		GORE AREA AT EXIT RAMP TO RTE. 8/68
97.409	97.640	EBL	400.0	100	400	400			MAINLINE GORE TO GORE AT RTE. 8/68
97.640	97.688	EBL	250.0	63	250	250	250		ENTRANCE RAMP GORE AT RTE. 8/68
97.688	97.768	EBL	422.4	106	422	422			ACCEL LANE PLUS MAINLINE
97.768	97.786	EBL	579.3	145	579	579			ACCEL TAPER
97.786	103.060	EBL	27846.7	6962	27847	27847			FROM RTE. 68/8 TO RTE. V EXIT
103.060	103.088	EBL	120.0	30	120	120			DECEL TAPER PLUS MAINLINE AT RTE. V EXIT
103.088	103.184	EBL	506.9	127	507	507			DECEL LANE PLUS MAINLINE
103.184	103.235	EBL	551.9	138	552	552	552		GORE AREA AT EXIT TO RTE. V
103.235	103.527	EBL	1541.8	385	1542	1542			MAINLINE GORE TO GORE AT RTE. V
103.527	103.566	EBL	264.4	66	264	264	264		ENTRANCE RAMP GORE AREA AT RTE V
103.566	103.643	EBL	400.0	200	400	400			ACCEL LANE PLUS MAINLINE AT RTE V
103.643	103.677	EBL	250.0	63	250	250			ACCEL TAPER
103.677	106.328	EBL	13997.3	3499	13997	13997			MAINLINE TO RTE. 63 EXIT RAMP
106.328	106.726	EBL	2101.4	525	2101	2101	540		GORE TO GORE RTE. 63
106.726	106.810	EBL	443.5	111	444	444		111	RTE. 63 ENTR RAMP TO UBAWS
106.810	107.326	EBL	2724.5	681	2725	2725		681	UBAWS
107.326	107.651	EBL	168.0	42	168	168		42	END OF UBAWS TO RTE. E EXIT RAMP
107.651	107.720	EBL	400.0	200	400	400	200		ENTR RAMP GORE AREA AND SHOULDER AT RTE E
107.720	107.790	EBL	200.0	50	200	200			ACCEL LANE ONLY AT RTE E
107.790	107.836	EBL	242.9	61	243	243			ACCEL TAPER ONLY
107.836	108.280	EBL	2344.3	586	2344	2344			MAINLINE TO KINGSHIGHWAY EXIT RAMP
108.280	108.361	EBL	427.7	107	428	428	428		EXIT RAMP GORE AREA AND SHDR AT KINGSHIGHWAY
108.361	108.810	EBL	2370.7	593	2371	2371			GORE TO GORE AT KINGSHIGHWAY
108.810	108.993	EBL	966.2	242	966	966	350		ENTR RAMP GORE AREA AND SHDR AT KINGSHIGHWAY
108.993	110.813	EBL	9609.6	2402	9610	9610			KINGSHIGHWAY TO BEG OF UNBONDED OVERLAY
110.813	113.356	EBL	13427.0	3357	13427	13427			BEG OF UNBONDED OVERLAY TO RTE. T GORE
113.356	113.484	EBL	675.8	169	676	676	260		EXIT RAMP GORE AREA AND SHDR AT RTE. T
113.484	113.894	EBL	2164.8	541	2165	2165			GORE TO GORE AT RTE. T
113.894	114.777	EBL	4662.2	1166	4662	4662			RTE. T ENTR RAMP TO REST AREA
114.777	114.905	EBL	675.8	169	676	676	240		EXIT RAMP GORE AREA AND SHDR AT REST AREA
114.905	115.265	EBL	1900.8	475	1901	1901			GORE TO GORE AT REST AREA
115.265	115.432	EBL	881.8	220	882	882	370		ENTR RAMP GORE AREA AND SHDR AT REST AREA
115.432	116.250	EBL	4319.0	1080	4319	4319			
116.250	116.454	EBL	1077.1	269	1077	1077	260		EXIT RAMP GORE AREA AND SHDR AT SUGARTREE RD
116.454	116.630	EBL	929.3	232	929	929			GORE TO END OF PROJECT
			SUBTOTAL	32472.0	128789.0	128789.0	4010.0	834.0	(14) SEE EBL PVMT MARKING TABLE FOR PAY TOTAL

NOTE: ALL PAVEMENT MARKINGS TO MATCH EXISTING. LOCATE PRIOR TO RESURFACING.

SUMMARY OF QUANTITIES
SHEET 15 OF 22

STATE OF MISSOURI
JASON S. DOHRMANN
PE-2004017159
PROFESSIONAL ENGINEER

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

DATE PREPARED
9/23/2021

ROUTE	STATE
I-44	MO

DISTRICT	SHEET NO.
CD	3

COUNTY
PHELPS/CRAWFD

JOB NO.
J5I3397

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)

HR GREEN, INC.
16020 SWINGLEY RIDGE ROAD.
SUITE 205
ST. LOUIS, MISSOURI 63017
PHONE: (636) 519.0990
CORPORATE LICENSE #2002006608
HRGreen®

PAVEMENT MARKINGS - EB RAMPS

LOG MILE	LOG MILE	LOCATION	LENGTH FT	HIGH BUILD WATERBORNE PAVEMENT MARKING WITH TYPE L BEADS		REMARKS
				6" SOLID WHITE LF	6" SOLID YELLOW LF	
SUGARTREE RD						
0.079	0.252	CRD 8490	913.4		1827	CENTERLINE SUGARTREE RD
0.039	0.146	CRD 7300	565.0		1130	CENTERLINE SUGARTREE RD
0.060	0.198	EBL EXIT RAMP	731.6	732	732	FROM GORE TO RADIUS PT
0.198	0.216	EBL EXIT RAMP	111.7	112	112	RADIUS PT TO OUTER RD EOP
0.004	0.020	EBL ENTR RAMP	85.0	85	85	OUTER RD EOP TO RADIUS PT
0.020	0.191	EBL ENTR RAMP	889.2	889	889	FROM RADIUS PT TO GORE
ROUTE T						
0.023	0.224	EBL EXIT RAMP	1027.9	1028	1028	GORE PT. TO RADIUS PT
0.224	0.237	EBL EXIT RAMP	61.0	61	61	RADIUS PT TO INTERSECTION
0.003	0.017	EBL ENTR. RAMP	80.5	81	81	INTERSECTION TO RADIUS PT
0.017	0.219	EBL ENTR. RAMP	1061.0	1061	1061	RADIUS PT TO GORE
KINGSHIGHWAY						
0.041	0.263	EBL EXIT RAMP	1144.2	1144	1144	GORE PT TO CONCRETE
0.150	0.275	EBL ENTR. RAMP	804.0	804	804	CONCRETE TO GORE PT
ROUTE E						
0.031	0.045	EBL EXIT RAMP	725.1	725	725	GORE PT TO WIDENING TAPER
0.045	0.073	EBL EXIT RAMP	150.0	150	150	RAMP WIDTH TAPER
0.073	0.173	EBL EXIT RAMP	361.0	361	361	FROM TAPER TO RADIUS PT
0.173	0.186	EBL EXIT RAMP	87.0	87	87	FROM RADIUS PT TO INTERSECTION
		EBL ENTR. RAMP				UIP CONCRETE PAVEMENT
ROUTE 63						
0.063	0.075	EBL EXIT RAMP	62.0	62	62	UIP CONCRETE PAVEMENT
0.075	0.213	EBL EXIT RAMP	743.0	743	743	VARIABLE WIDTH TO RADIUS PT
0.213	0.246	EBL EXIT RAMP	128.0	128	128	RADIUS PT TO RTE. 63
0.006	0.041	EBL ENTR. RAMP	151.0	151	151	RTE. 63 TO RADIUS PT
0.041	0.126	EBL ENTR RAMP	447.0	447	447	RADIUS PT TO BEGIN OF CONCRETE
ROUTE V						
0.016	0.141	EBL EXIT RAMP	647.0	647	647	FROM GORE TO RADIUS PT
0.127	0.141	EBL EXIT RAMP	84.0	84	84	FROM RADIUS PT TO RTE. V EOP
0.013	0.174	EBL ENTR. RAMP	836.0	836	836	FROM RADIUS PT TO GORE PT
ROUTE 68 / ROUTE 8						
0.010	0.102	EBL EXIT RAMP	519.0	519	519	GORE PT TO RADIUS PT AT RTE. 8
0.102	0.121	EBL EXIT RAMP	89.0	89	89	RADIUS PT TO RTE. 8 INTERSECTION
0.010	0.025	EBL ENTR. RAMP	57.9	58	58	INTERSECTION TO RADIUS PT.
0.025	0.122	EBL ENTR. RAMP	572.00	572	572	RADIUS PT TO GORE PT
ROUTE F						
0.032	0.248	EBL EXIT RAMP	1131.0	1131	1131	FROM GORE TO RADIUS PT
0.248	0.255	EBL EXIT RAMP	59.9	60	60	FROM RADIUS POINT TO RTE F EOP
0.004	0.015	EBL ENTR. RAMP	76.0	76	76	FROM RTE F EOP TO RADIUS PT
0.015	0.232	EBL ENTR RAMP	1129.0	1129	1129	RADIUS PT TO GORE
			SUBTOTAL	14052.0	17009.0	(15) SEE EBL PVMT MARKING TABLE FOR PAY TOTAL

NOTE: ALL PAVEMENT MARKINGS TO MATCH EXISTING. LOCATE PRIOR TO RESURFACING.

PAVEMENT MARKINGS - WB RAMPS

LOG MILE	LOG MILE	LOCATION	LENGTH FT	HIGH BUILD WATERBORNE PAVEMENT MARKING WITH TYPE L BEADS		REMARKS
				6" SOLID WHITE LF	6" SOLID YELLOW LF	
ROUTE V						
0.029	0.175	WBL EXIT RAMP	826.0	826	826	FROM GORE TO RADIUS PT
0.175	0.192	WBL EXIT RAMP	72.0	72	72	FROM RADIUS PT TO RTE. V EOP
0.005	0.016	WBL ENTR. RAMP	93.0	93	93	RTE V EOP TO RADIUS PT
0.016	0.136	WBL ENTR. RAMP	626.0	626	626	RADIUS PT TO GORE PT
			TOTAL	1,617.00	1,617.00	(16) SEE EBL PVMT MARKING TABLE FOR PAY TOTAL

NOTE: ALL PAVEMENT MARKINGS TO MATCH EXISTING. LOCATE PRIOR TO RESURFACING.

SUMMARY OF QUANTITIES
SHEET 16 OF 22

STATE OF MISSOURI
JASON S. DOHRMANN
PE-2004017159
PROFESSIONAL ENGINEER

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

DATE PREPARED
9/23/2021

ROUTE	STATE
I-44	MO

DISTRICT	SHEET NO.
CD	3

COUNTY
PHELPS/CRAWFD

JOB NO.
J5I3397

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)

HR GREEN, INC.
16020 SWINGLEY RIDGE ROAD.
SUITE 205
ST. LOUIS, MISSOURI 63017
PHONE: (636) 519.0990
CORPORATE LICENSE #2002006608

RUMBLE STRIPS - WB INSIDE AND OUTSIDE SHOULDERS

LOG MILE	LOG MILE	LOCATION	LENGTH FT	BITUMINOUS SHOULDER RUMBLE STRIP		REMARKS
				INSIDE SHOULDER STA	OUTSIDE SHOULDER STA	
91.927	97.353	WBL	28649.3	286.5	286.5	MAINLINE TO GORE OF RTE. 8/68 EXIT
97.353	97.409	WBL	295.7	3.0		GORE AREA AT EXIT RAMP TO RTE. 8/68
97.409	97.640	WBL	400.0	4.0	4.0	MAINLINE GORE TO GORE AT RTE. 8/68
97.640	97.688	WBL	250.0	2.5		ENTRANCE RAMP GORE AT RTE. 8/68
97.688	97.768	WBL	422.4	4.2		ACCEL LANE PLUS MAINLINE
97.768	97.786	WBL	579.3	5.8		ACCEL TAPER
97.786	103.060	WBL	27846.7	278.5	278.5	FROM RTE. 68/8 TO RTE. V EXIT
103.060	103.088	WBL	120.0	1.2		DECEL TAPER PLUS MAINLINE AT RTE. V EXIT
103.088	103.184	WBL	506.9	5.1		DECEL LANE PLUS MAINLINE
103.184	103.235	WBL	551.9	5.5		GORE AREA AT EXIT TO RTE. V
103.235	103.527	WBL	1541.8	15.4	15.4	MAINLINE GORE TO GORE AT RTE. V
103.527	103.566	WBL	264.4	2.6		ENTRANCE RAMP GORE AREA AT RTE V
103.566	103.643	WBL	400.0	4.0		ACCEL LANE PLUS MAINLINE AT RTE V
103.643	103.677	WBL	250.0	2.5		ACCEL TAPER
103.677	106.025	WBL	12397.4	124.0	124.0	MAINLINE TO BEG OF CONCRETE
106.025	106.328	WBL	1599.8			BEG OF CONCRETE TO RTE. 63 EXIT RAMP
106.328	106.726	WBL	2101.4			GORE TO GORE RTE. 63
106.726	106.810	WBL	443.5			RTE. 63 ENTR RAMP TO UBAWS
106.810	107.326	WBL	2724.5	27.2	27.2	UBAWS
107.326	107.651	WBL	168.0			END OF UBAWS TO RTE. E EXIT RAMP
107.651	107.720	WBL	400.0			ENTR RAMP GORE AREA AND SHOULDER AT RTE E
107.720	107.790	WBL	200.0			ACCEL LANE ONLY AT RTE E
107.790	107.836	WBL	242.9			ACCEL TAPER ONLY
107.836	108.280	WBL	2344.3			MAINLINE TO KINGSHIGHWAY EXIT RAMP
108.280	108.361	WBL	427.7			EXIT RAMP GORE AREA AND SHDR AT KINGSHIGHWAY
108.361	108.810	WBL	2370.7			GORE TO GORE AT KINGSHIGHWAY
108.810	108.993	WBL	966.2			ENTR RAMP GORE AREA AND SHDR AT KINGSHIGHWAY
108.993	110.813	WBL	9609.6			KINGSHIGHWAY TO BEG OF UNBONDED OVERLAY
110.813	113.356	WBL	13427.0			BEG OF UNBONDED OVERLAY TO RTE. T GORE
113.356	113.484	WBL	675.8			EXIT RAMP GORE AREA AND SHDR AT RTE. T
113.484	113.894	WBL	2164.8			GORE TO GORE AT RTE. T
113.894	114.777	WBL	4662.2			RTE. T ENTR RAMP TO REST AREA
114.777	114.905	WBL	675.8			EXIT RAMP GORE AREA AND SHDR AT REST AREA
114.905	115.265	WBL	1900.8			GORE TO GORE AT REST AREA
115.265	115.432	WBL	881.8			ENTR RAMP GORE AREA AND SHDR AT REST AREA
115.432	116.250	WBL	4319.0			MAINLINE TO EXIT RAMP AT SUGARTREE
116.250	116.454	WBL	1077.1			EXIT RAMP GORE AREA AND SHDR AT SUGARTREE RD
116.454	116.630	WBL	929.3			GORE TO END OF PROJECT
			SUBTOTAL	772.0	735.6	
			SUBTOTAL (17)	986.5	907.5	(17) SUBTOTAL FROM EBL RUMBLE TABLE
			PAY TOTAL	3410		

SUMMARY OF QUANTITIES
SHEET 17 OF 22

STATE OF MISSOURI
JASON S. DOHRMANN
PE-2004017159
PROFESSIONAL ENGINEER

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

DATE PREPARED
9/23/2021

ROUTE	STATE
I-44	MO

DISTRICT	SHEET NO.
CD	3

COUNTY
PHELPS/CRAWFD

JOB NO.
J5I3397

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

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

DESCRIPTION	DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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

HR GREEN, INC.
16020 SWINGLEY RIDGE ROAD,
SUITE 205
ST. LOUIS, MISSOURI 63017
PHONE: (636) 519.0990
CORPORATE LICENSE #2002006608

RUMBLE STRIPS - EB INSIDE AND OUTSIDE SHOULDERS

LOG MILE	LOG MILE	LOCATION	LENGTH FT	BITUMINOUS SHOULDER RUMBLE STRIP		REMARKS
				INSIDE SHOULDER STA	OUTSIDE SHOULDER STA	
176.521	176.741	EBL	1161.6	11.6	11.6	MAINLINE TO GORE AT SUGARTREE
176.741	176.780	EBL	205.9	2.1		GORE OF ENTR RAMP AND SHDR AT SUGARTREE RD
176.780	176.846	EBL	400.0	4.0		ACCEL LANE PLUS MAINLINE AND SHDR
176.846	176.889	EBL	250.0	2.5		ACCEL LANE TAPER PLUS MAINLINE AND SHDR
176.889	177.736	EBL	4472.2	44.7	44.7	MAINLINE TO GORE AT REST AREA
177.736	177.836	EBL	579.3	5.8		GORE OF REST AREA EXIT
177.836	178.142	EBL	1615.7	16.2	16.2	MAINLINE GORE TO GORE AT REST AREA
178.142	178.167	EBL	132.0	1.3		GORE OF REST AREA ENTR RAMP AND SHDR
178.167	178.223	EBL	337.0	3.4		ACCEL LANE PLUS MAINLINE AND SHDR
178.223	178.276	EBL	120.0	1.2		ACCEL LANE TAPER PLUS MAINLINE AND SHDR
178.276	179.167	EBL	4704.5	47.0	47.0	MAINLINE TO GORE AT RTE. T
179.167	179.243	EBL	551.9	5.5		GORE AREA AT RTE. T EXIT
179.243	179.671	EBL	2259.8	22.6	22.6	MAINLINE GORE TO GORE AT RTE. T
179.671	179.727	EBL	264.4	2.6		GORE AREA AT RTE. T ENTR
179.727	179.792	EBL	400.0	4.0		ACCEL LANE PLUS MAINLINE
179.792	179.839	EBL	250.0	2.5		ACCEL LANE TAPER PLUS MAINLINE
179.839	184.202	EBL	23045.0	230.5	230.5	MAINLINE TO GORE AT KINGSHIGHWAY
184.202	184.324	EBL	648.0	6.5		GORE AREA AT KINGSHIGHWAY EXIT
184.324	184.797	EBL	2485.0	24.9	24.9	MAINLINE GORE TO GORE AT KINGSHIGHWAY
184.797	184.856	EBL	168.0	1.7		GORE AREA PLUS SHDR AT KINGS ENTR
184.856	184.894	EBL	400.0	4.0		ACCEL LANE PLUS MAINLINE AND SHDR
184.894	184.951	EBL	200.0	2.0		ACCEL LANE TAPER PLUS MAINLINE AND SHDR
184.951	185.450	EBL	2634.7	26.3	26.3	MAINLINE TO GORE AT RTE. E
185.450	185.511	EBL	322.1	3.2		GORE AREA AT RTE. E EXIT
185.511	185.592	EBL	427.7	4.3	4.3	GORE TO END OF ASPHALT
185.592	185.746	EBL	813.1			END OF ASPHALT TO RTE. E ENTR RAMP
185.592	186.074	EBL	2545.0			RTE. E TO UBAWS
186.074	186.337	EBL	1388.6	13.9	13.9	UBAWS
186.337	186.426	EBL	469.9			END OF UBAWS TO RTE. 63 EXIT RAMP GORE
186.426	186.754	EBL	1731.8			GORE TO GORE AT RTE. 63
186.754	187.120	EBL	1932.5			RTE. 63 GORE TO CONCRETE
187.120	195.320	FULL DEPTH RECONSTRUCTION OF CONCRETE PAVEMENT - J513572				
195.320	195.425	EBL	554.4	5.5	5.5	MAINLINE TO TAPER AT RTE. 8/68
195.425	195.488	EBL	332.6	3.3		DECEL TAPER TO GORE AT RTE. 8/68
195.488	195.723	EBL	1240.8	12.4	12.4	MAINLINE GORE TO GORE AT RTE. 8/68
195.723	195.767	EBL	232.3	2.3		GORE AREA AT RTE. 8/68 ENTR
195.767	195.841	EBL	400.0	4.0		ACCEL LANE PLUS MAINLINE AND SHDR AT 8/68
195.841	195.868	EBL	200.0	2.0		ACCEL TAPER PLUS MAINLINE AND SHDR
195.868	203.060	EBL	37973.8	379.7	379.7	MAINLINE TO GORE AT RTE. F
203.060	203.173	EBL	596.6	6.0		GORE AREA AT RTE. F EXIT
203.173	203.631	EBL	2418.2	24.2	24.2	MAINLINE GORE TO GORE AT RTE. F
203.631	203.680	EBL	258.7	2.6		GORE AREA AT RTE. F ENTR
203.680	203.775	EBL	450.0	4.5		ACCEL LANE PLUS MAINLINE AT RTE. F
203.775	203.793	EBL	200.0	2.0		ACCEL TAPER PLUS MAINLINE AT RTE. F
203.793	204.620	EBL	4366.6	43.7	43.7	RTE. F TO BEGIN CONC/END OF PROJECT
			SUBTOTAL	986.5	907.5	(17) SEE WBL RUMBLE TABLE FOR PAY TOTAL

SUMMARY OF QUANTITIES
SHEET 18 OF 22

STATE OF MISSOURI
JASON S. DOHRMANN
PE-2004017159
PROFESSIONAL ENGINEER

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

DATE PREPARED: 9/23/2021

ROUTE	STATE
I-44	MO

DISTRICT	SHEET NO.
CD	3

COUNTY: PHELPS/CRAWFD
JOB NO.: J5I3397
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)

HR GREEN, INC.
16020 SWINGLEY RIDGE ROAD.
SUITE 205
ST. LOUIS, MISSOURI 63017
PHONE: (636) 519.0990
CORPORATE LICENSE #2002006608

MGS GUARDRAIL - EB LANES

LOG MILE	LOG MILE	LOCATION	DISTANCE (FT)	MGS GUARDRAIL (LF)	MGS GDRL 8' POSTS 6'-3" SPACING (LF)	TYPE A CRASH WORTHY (MASH) (EA)	TYPE B CRASH WORTHY (EA)	MGS END ANCHOR (EA)	MGS VERT VERT BARRIER TRANSITION SECTION (EA)	MGS VERT BRIDGE APPR. TRANSITION SECTION (EA)	TYPE D BARRIER (MOMENT SLAB) (LF)	MGS DBL FACED GDRL (LF)	SHAPING SLOPES CL III 100 FT	REMARKS
0.025	0.050	CRD 8490-RT	125.500	38		1			1				0.5	
0.028	0.050	CRD 8490-LT	120.500	33		1			1				0.5	
0.072	0.095	CRD 8490-RT	125.500	38		1			1				0.5	
0.072	0.105	CRD 8490-LT	131.500	44		1			1				0.5	
176.532	176.539	EBL-RT	35.000							1	35			AT BRIDGE PIERS - SUGARTREE / CONCRETE SEPARATE
177.053	177.056	EBL-RT	14.250		850			1						
177.203	177.580	EBL-RT	1990.250		1926	1		1					0.8	
178.868	179.157	EBL-RT	1527.250		1463	1		1					0.8	
180.064	180.121	EBL-RT	302.250	238		1		1					0.8	DMS BOARD
181.176	182.341	EBL-RT	6152.250		6088	1		1					0.8	
182.481	182.548	EBL-RT	351.250		287	1		1					0.8	
183.127	183.205	EBL-RT	414.250	400				1					0.3	
183.135	183.213	EBL-LT	414.250	400				1					0.3	
STA.53+88.40	STA.84+74.50	LOC. B - EBL-LT	3264.500	3200		1		1					0.8	SEE SPECIAL LOCATION SHEET B
184.557	184.811	EBL-RT	1340.250	1276		1		1					0.8	
185.592	185.663	EBL-RT	377.250	313		1		1					0.8	
186.315	186.365	EBL-RT	264.500	200		1		1					0.8	
186.565	186.648	EBL-RT	440.250	376		1		1					0.8	
189.682	189.750	EBL-RT	357.500	225		1				1	45		0.5	
195.548	195.683	EBL-RT	715.250	651		1		1					0.8	PIER PROTECT @ RTE.8/68
195.585	195.642	CL MED. I44	300.000	290			2					50	1.0	US 8/68 MEDIAN
200.005	200.065	EBL-RT	317.500	200		1				1	30		0.5	PIER PROTECTION
203.332	203.392	EBL-RT	317.500	200		1				1	30		0.5	PIER PROTECTION AT F & ZZ BRIDGE
STA.53+51.90	STA.54+26.90	LOC. D - EBL-LT	139.500	75		1		1					0.8	SEE SPECIAL LOCATION SHEET D
STA.53+97.40	STA.54+72.40	LOC. D - WBL-RT	139.500	75		1		1					0.8	SEE SPECIAL LOCATION SHEET D
			SUBTOTAL	8272	10614	20	2	16	4	4	140	50	16	LOGS APPROX. - VERIFY LOCATION
			SUBTOTAL (18)	6791	8502	22		18		4	140		16	IN FIELD BEFORE INSTALLATION.
			PAY TOTAL	15063	19116	42	2	34	4	8	280	50	32	

MGS GUARDRAIL - WB LANES

LOG MILE	LOG MILE	LOCATION	DISTANCE (FT)	MGS GUARDRAIL (LF)	MGS WITH 8' POSTS 6'-3" SPACING (LF)	TYPE A CRASHWORTHY (MASH) (EA)	MGS END ANCHOR (EA)	MGS BRIDGE APPR TRANS SEC (NO CURB) (EA)	TYPE D BARRIER (MOMENT SLAB) (LF)	SHAPING SLOPES CL III 100 FT	REMARKS
89.693	89.753	WBL-RT	317.500	200		1		1	30	0.5	PIER PROT. @ RTE. F
92.802	93.082	WBL-RT	1480.500	1363		1		1	30	0.5	PIER PROT. @ RTE. U
93.053	93.111	WBL-RT MEDIAN	300.000	250		2	2			1.5	PIER PROT. @ RTE. U
95.046	95.098	WBL-RT	276.250	212		1	1			0.8	
95.691	95.798	WBL-RT	564.250		500	1	1			0.8	
97.463	97.605	WBL-RT	752.250	688		1	1			0.8	PIER PROT @ RTE.8/68
103.330	103.398	WBL-RT	358.500	225		1		1	45	0.5	
103.838	104.333	WBL-RT	2615.250	2551		1	1			0.8	
104.845	104.950	WBL-RT	552.250		488	1	1			0.8	
106.419	106.500	WBL-RT	427.250	363		1	1			0.8	
107.256	107.311	WBL-RT	290.250		226	1	1			0.8	EXIT 185 SIGN TRUSS PROTECTION
107.435	107.502	WBL-RT	352.250	288		1	1			0.8	
108.100	108.280	WBL-RT	952.250		888	1	1			0.8	
108.498	108.584	WBL-RT	452.250	388		1	1			0.8	
110.719	110.921	WBL-RT	1064.250		1000	1	1			0.8	
111.305	111.713	WBL-RT	2152.250		2088	1	1			0.8	
111.863	111.980	WBL-RT	615.250		551	1	1			0.8	
STA.150+12.40	STA.154+49.90	LOC. A - WBL-LT	502.000		437.5	1	1			0.8	REST AREA SEE LOCATION A SPECIAL SHEET
113.187	113.329	WBL-RT	749.500		685	1	1			0.8	
115.968	116.288	WBL-RT	1690.000		1638	1	1			0.8	
116.542	116.608	WBL-RT	350.500	263		1		1	35	0.5	PIER PROT. @ SUGARTREE
		SUBTOTAL (18)		6791	8502	22	18	4	140	16	(18) SEE EBL MGS GRDL TABLE FOR PAY TOTAL

SUMMARY OF QUANTITIES
SHEET 19 OF 22

STATE OF MISSOURI
JASON S. DOHRMANN
PE-2004017159
PROFESSIONAL ENGINEER

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

DATE PREPARED
9/23/2021

ROUTE	STATE
I-44	MO

DISTRICT	SHEET NO.
CD	3

COUNTY
PHELPS/CRAWFD

JOB NO.
J5I3397

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

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

DESCRIPTION	DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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

HR GREEN, INC.
16020 SWINGLEY RIDGE ROAD,
SUITE 205
ST. LOUIS, MISSOURI 63017
PHONE: (636) 519.0990
CORPORATE LICENSE #2002006608

EROSION CONTROL

EROSION CONTROL SHEET NO	ROADWAY	STA	STA	LOCATION	SILT FENCE L.F.	CURB INLET CHECK EA	SEDIMENT TRAP ROCK C.Y.	SEDIMENT TRAP EXCAVATION C.Y.	ROCK DITCH CHECK L.F.	ALTERNATE DITCH CHECK L.F.	SEDIMENT REMOVAL C.Y.	REMARKS
1	LOCATION A	150+66	153+41	LT	65					40	4.7	OUTCROP
2	LOCATION B	52+61	75+00	LT	2085		35.0	25.9		780	87.0	MARTIN SPRINGS
3	LOCATION B	75+00	93+67	LT	1735	2				620	53.0	MARTIN SPRINGS
4	LOCATION C	102+70	104+93	RT					17		117.9	LOW POINT
				SUBTOTAL	3885	2	35	26	17	1440	262.6	
				PAY TOTAL	3885	2	35	26	17	1440	263	

ROCK FILL

SHEET NO	ROADWAY	STA	STA	LOCATION	FURNISHING ROCK FILL CY	PLACING ROCK FILL CY	SEPARATION GEOTEXTILE	REMARKS
	LOCATION B	55+25	84+75	LT	15779	15779	4381	
				SUBTOTAL	15779.00	15779.00	4381.00	
				SUBTOTAL (20)			279.00	(20) SUBTOTAL FROM ROCK BLANKET TABLE
				PAY TOTAL	15779	15779	4660	

ROCK BLANKET, 2'-0" THICK

SHEET NO	ROADWAY	STA	STA	LOCATION	AREA	FURNISHING TYPE 1 ROCK BLANKET CY	PLACING TYPE 1 ROCK BLANKET CY	SEPARATION GEOTEXTILE SY	REMARKS
	LOCATION C	103+12	104+20	RT	1970	163	163	279	
				SUBTOTAL	SUBTOTAL	163.00	163.00	279.00	
				PAY TOTAL	USE	163	163	(20)	(20) SEE ROCK FILL TABLE FOR PAY TOTAL

ROCK DITCH LINER

SHEET NO	ROADWAY	STA	STA	LOCATION	AREA	FURNISHING TYPE 1 ROCK DITCH LINER CY	PLACING TYPE 1 ROCK DITCH LINER CY	REMARKS
	LOCATION B	56+38.5	58+50.0	LT	435	10.7	10.7	8" THICK
	LOCATION B	71+39.4		LT	48	1.8	1.8	1' THICK
	LOCATION B	74+25.0	77+68.5	LT	2062	50.9	50.9	8" THICK
	LOCATION B	84+25.0	85+25.0	LT	711	17.6	17.6	8" THICK
	LOCATION C	102+66.4	105+01.7	RT	1868	69.2	69.2	1' THICK
					SUBTOTAL	150.2	150.2	
					PAY TOTAL	151	151	

SUMMARY OF QUANTITIES
SHEET 20 OF 22

STATE OF MISSOURI
JASON S. DOHRMANN
PE-2004017159
PROFESSIONAL ENGINEER

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

DATE PREPARED 9/23/2021

ROUTE	STATE
I-44	MO

DISTRICT	SHEET NO.
CD	3

COUNTY: PHELPS/CRAWFD
JOB NO.: J5I3397
CONTRACT ID.:
PROJECT NO.:
BRIDGE NO.:

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

DATE	DESCRIPTION

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

HR GREEN, INC.
16020 SWINGLEY RIDGE ROAD.
SUITE 205
ST. LOUIS, MISSOURI 63017
PHONE: (636) 519.0990
CORPORATE LICENSE #2002006608

DRAINAGE STRUCTURE LIDS

SHEET NO	ROADWAY	STA	LOCATION	STRUCTURE NO.	GRATE & BEARING PLATES 3′ X 3′ LF	REMARKS
1	LOCATION B	57+37	LT	10-1	1	
1	LOCATION B	77+71	LT	12-1	1	
1	LOCATION B	8564.64	LT	13-1	1	
				SUBTOTAL	3	
				PAY TOTAL	3	

ADVANCE CABLE LOOP DETECTOR

LOCATION	1C#14 IN DUCT LENGTH LF	2C#14 LEAD IN CABLE LENGTH LF	REMARKS
EB RTE. 8 EXIT RAMP	72	8	REPLACE EXISTING
EB AND WB RTE. V EXIT RAMPS	144	16	REPLACE EXISTING
TOTAL	216	24	
PAY TOTAL	220	30	

DRAINAGE STRUCTURES

CULVERT SHEET NO	ROADWAY	STA	LOCATION	TOP OF "D" ELEV.	FLOWLINE ELEV.	ACTUAL DEPTH FT	STRUCTURE NO.	PRECAST CONCRETE DROP INLET 3′ X 3′ LF	PRECAST CONCRETE DROP INLET 5′ X 3′ LF	ADJUSTING BASIN OR INLET EA.	CLASS 3 EXCAVATION IN ROCK CY	REMARKS
1	LOCATION B	57+37	LT	886.16	883.05	3.11	10-1	3.1			6	1-18" OPENING
1	LOCATION B	77+71	LT	960.08	958.08	2.00	12-1	2.0			4	1-15" OPENING
1	LOCATION B	85+65	LT	980.34	977.95	2.39	13-1	2.4			5	1-15" OPENING
1	LOCATION B	92+19	LT				14-1			1		
1	LOCATION C	103+63	RT	1116.57	1107.07	9.50	1-2		9.5		3	
							SUBTOTAL	7.5	9.5	1	18	
							SUBTOTAL (19)				12	(19) SUBTOTAL FROM DRAINAGE PIPES TABLE
							PAY TOTAL	8	10	1	30	

DRAINAGE PIPES

CULVERT SHEET NO	ROADWAY	FROM STRUC.	TO STRUC.	STA	GROUP A PIPE 15 IN. L.F.	GROUP A PIPE 18 IN. L.F.	TYPE A PIPE COLLAR EA.	15 IN. GROUP A FLARED END SECTION EA.	18 IN. GROUP A FLARED END SECTION EA.	CLASS 3 EXC. IN ROCK C.Y.	REMARKS
1	LOCATION B	10-1	EXIST.	57+37		2	1			1	
1	LOCATION B	EXIST.	11-1	71+39	21		1	1		1	
1	LOCATION B	12-1	EXIST.	77+71	2		1			1	
1	LOCATION B	EXIST.	13-1	85+65	9		1			4	
2	LOCATION C	EXIST.	1-2	103+62		6	1			3	
2	LOCATION C	1-2	1-1	103+65		13			1	2	
				SUBTOTAL	32	21	5	1	1	12	
				PAY TOTAL	32	21	5	1	1	(19)	(19) SEE DRAINAGE STRUCTURES TABLE FOR PAY TOTAL

SUMMARY OF QUANTITIES
SHEET 21 OF 22

STATE OF MISSOURI
JASON S. DOHRMANN
PE-2004017159
PROFESSIONAL ENGINEER

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

DATE PREPARED 9/30/2021

ROUTE	STATE
I-44	MO

DISTRICT	SHEET NO.
CD	3

COUNTY: PHELPS/CRAWFD
JOB NO.: J5I3397
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)

HR GREEN, INC.
16020 SWINGLEY RIDGE ROAD.
SUITE 205
ST. LOUIS, MISSOURI 63017
PHONE: (636) 519.0990
CORPORATE LICENSE #2002006608

EFFECTIVE: 04-01-2021

SIGN	SIZE IN.	AREA SQ.FT.	QTY EACH	TOTAL AREA SQ.FT.	QTY RELOC EACH	TOTAL RELOC SQ.FT.	SIGN NUM.	DESCRIPTION
WARNING SIGNS								
WO1-1L	48X48	16.00						TURN (SYMBOL LEFT ARROW)
WO1-1R	48X48	16.00						TURN (SYMBOL RIGHT ARROW)
WO1-2L	48X48	16.00						CURVE (SYMBOL LEFT ARROW)
WO1-2R	48X48	16.00						CURVE (SYMBOL RIGHT ARROW)
WO1-3L	48X48	16.00						REVERSE TURN (SYMBOL LEFT ARROW)
WO1-3R	48X48	16.00						REVERSE TURN (SYMBOL RIGHT ARROW)
WO1-4L	48X48	16.00						REVERSE CURVE (SYMBOL LEFT ARROW)
WO1-4R	48X48	16.00						REVERSE CURVE (SYMBOL RIGHT ARROW)
WO1-4bL	48X48	16.00						DOUBLE ARROW REVERSE CURVE (SYMBOL LT ARROWS)
WO1-4bR	48X48	16.00						DOUBLE ARROW REVERSE CURVE (SYMBOL RT ARROWS)
WO1-4cL	48X48	16.00						TRIPLE ARROW REVERSE CURVE (SYMBOL LT ARROWS)
WO1-4cR	48X48	16.00						TRIPLE ARROW REVERSE CURVE (SYMBOL RT ARROWS)
WO1-6	60X30	12.50						HORIZONTAL ARROW (SYMBOL)
WO1-6a	72X36	18.00						HORIZ. ARROW (SYMBOL ON PERMANENT BARRICADE)
WO1-7	60X30	12.50						DOUBLE HEAD HORIZONTAL ARROW (SYMBOL)
WO1-7a	72X36	18.00						DOUBLE HEAD HORIZ. ARROW (SYMBOL ON PERM. BARR.)
WO1-8	18X24	3.00						CHEVRON (SYMBOL)
WO1-8a	30X36	7.50						CHEVRON (SYMBOL FOR DIVIDED HIGHWAYS)
WO3-1	48X48	16.00						STOP AHEAD (SYMBOL)
WO3-2	48X48	16.00	**10**	**160**			**40**	YIELD AHEAD (SYMBOL)
WO3-3	48X48	16.00						SIGNAL AHEAD (SYMBOL)
WO3-4	48X48	16.00						BE PREPARED TO STOP
WO3-5	48X48	16.00	**10**	**160**			**3**	SPEED LIMIT AHEAD
WO4-1L	48X48	16.00						MERGE (SYMBOL FROM LEFT)
WO4-1R	48X48	16.00	**4**	**64**				MERGE (SYMBOL FROM RIGHT)
WO4-1aL	48X48	16.00	**10**	**160**			**6a**	MERGE (ARROW SYMBOL)
WO4-1aR	48X48	16.00	**10**	**160**			**6a**	MERGE (ARROW SYMBOL)
WO5-1	48X48	16.00	**32**	**512**			**43**	ROAD/BRIDGE/RAMP NARROWS
WO5-3	48X48	16.00						ONE LANE BRIDGE
WO5-5	48X48	16.00	**20**	**320**				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	**32**	**160**			**44a**	NEXT XX MILES (PLAQUE)
WO8-1	48X48	16.00						BUMP
WO8-2	48X48	16.00						DIP
WO8-3	48X48	16.00						PAVEMENT ENDS
WO8-4	48X48	16.00						SOFT SHOULDER
WO8-5	48X48	16.00						SLIPPERY WHEN WET (SYMBOL)
WO8-6	48X48	16.00						TRUCK CROSSING (WITH FLAGS)
WO8-6c	48X48	16.00						TRUCK ENTRANCE
WO8-7	36X36	9.00						LOOSE GRAVEL
WO8-7a	36X36	9.00						FRESH OIL/LOOSE GRAVEL
WO8-9	48X48	16.00						LOW SHOULDER
WO8-11	48X48	16.00	**10**	**160**			**36**	UNEVEN LANES
WO8-12	48X48	16.00	**10**	**160**			**35**	NO CENTER LINE
WO8-15	48X48	16.00						GROOVED PAVEMENT
WO8-15P	30X24	5.00						MOTORCYCLE (PLAQUE)
WO8-17	48X48	16.00	**10**	**160**				SHOULDER DROP-OFF (SYMBOL)
WO8-17P	30X24	5.00	**10**	**50**				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	**2**	**100**				LOW CLEARANCE XX FT XX IN XX MILES AHEAD
WO12-5	120X60	50.00	**2**	**100**				WIDTH RESTRICTION XX FT XX IN XX MILES AHEAD
WO13-1	30X30	6.25						ADVISORY SPEED (PLAQUE)
WO16-2	30X24	5.00						XXX FEET (PLAQUE)
WO16-3	30X24	5.00						X MILE (PLAQUE)
WO20-1	48X48	16.00	**40**	**640**			**2**	ROAD/BRIDGE/RAMP WORK AHEAD
WO20-2	48X48	16.00						DETOUR AHEAD
WO20-3	48X48	16.00						ROAD CLOSED AHEAD
WO20-4	48X48	16.00	**4**	**64**			**7**	ONE LANE ROAD AHEAD
WO20-5	48X48	16.00	**30**	**480**			**5**	RIGHT/CENTER/LEFT LANE CLOSED AHEAD
WO20-5a	48X48	16.00						2 RIGHT/CENTER/LEFT LANES CLOSED AHEAD
WO20-6a	48X48	16.00	**30**	**480**			**6**	RIGHT/CENTER/LEFT LANE CLOSED
WO20-7a	48X48	16.00	**4**	**64**			**8**	FLAGGER (SYMBOL, WITH FLAGS)
WO21-2	36X36	9.00						FRESH OIL
WO21-5	48X48	16.00	**20**	**320**			**21**	SHOULDER WORK AHEAD
WO21-5b	48X48	16.00	**20**	**320**			**21b**	RIGHT/LEFT SHOULDER CLOSED AHEAD
WO21-5a	48X48	16.00	**20**	**320**			**21a**	RIGHT/LEFT SHOULDER CLOSED
WO22-3	42X36	10.50						END BLASTING ZONE
GO22-1	21X15	2.19						WET PAINT (ARROW PIVOTS)

SIGN	SIZE IN.	AREA SQ.FT.	QTY EACH	TOTAL SQ.FT.	QTY RELOC EACH	TOTAL RELOC SQ.FT.	SIGN NUM.	DESCRIPTION
GUIDE SIGNS								
E05-1	36X48	12.00	**20**	**240**			**49**	GORE EXIT
E05-2	48X36	12.00	**6**	**72**				EXIT OPEN
E05-2a	48X36	12.00	**6**	**72**				EXIT CLOSED
GO20-1	60X24	10.00	**4**	**40**				ROAD WORK NEXT XX MILES
GO20-2	48X24	8.00	**4**	**32**				END ROAD WORK
GO20-4	36X18	4.50						PILOT CAR FOLLOW ME
GO20-4a	42X30	8.75						PILOT CAR IN USE WAIT & FOLLOW
GO20-4a	18X12	1.50						PILOT CAR IN USE WAIT & FOLLOW
GO20-5aP	36X24	6.00	**20**	**120**			**54**	WORK ZONE (PLAQUE)
MO4-8a	24X18	3.00						END DETOUR
MO4-9L	48X36	12.00						DETOUR (LEFT ARROW)
MO4-9R	48X36	12.00						DETOUR (RIGHT ARROW)
MO4-9P	48X12	4.00						STREET NAME (PLAQUE)
MO4-10L	48X18	6.00						DETOUR (ARROW LEFT)
MO4-10R	48X18	6.00						DETOUR (ARROW RIGHT)
REGULATORY SIGNS								
R1-1	48X48	13.25						STOP
R1-2	48TRI.	6.93	**10**	**69.3**			**13**	YIELD
R1-2a	36X36	9.00						TO ONCOMING TRAFFIC (PLAQUE)
R1-3P	30X12	2.50						ALL WAY (PLAQUE)
R2-1	36X48	12.00	**40**	**480**			**4/25**	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	**20**	**240**			**46**	DO NOT PASS
R4-2	36X48	12.00	**20**	**240**			**46a**	PASS WITH CARE
R4-8a	36X48	12.00						KEEP LEFT (HORIZONTAL ARROW)
R4-7a	36X48	12.00						KEEP RIGHT (HORIZONTAL ARROW)
R5-1	30X30	6.25						DO NOT ENTER
R5-1a	36X24	6.00						WRONG WAY
R6-1L	54X18	6.75						ONE WAY ARROW (LEFT)
R6-1R	54X18	6.75						ONE WAY ARROW (RIGHT)
R6-2L	24X30	5.00						ONE WAY (LEFT)
R6-2R	24X30	5.00						ONE WAY (RIGHT)
R9-9	24X12	2.00						SIDEWALK CLOSED
R9-11L	24X18	3.00						SIDEWALK CLOSED AHEAD, (ARROW LEFT) CROSS HERE
R9-11R	24X18	3.00						SIDEWALK CLOSED AHEAD, (ARROW RIGHT) CROSS HERE
R10-6	24X36	6.00						STOP HERE ON RED (45° ARROW)
R11-2	48X30	10.00						ROAD CLOSED
R11-3a	60X30	12.50						ROAD CLOSED XX MILES AHEAD LOCAL TRAFFIC ONLY
R11-4	60X30	12.50						ROAD CLOSED TO THRU TRAFFIC
CONST-3A	60X48	20.00	**20**	**400**			**53**	FINE SIGN
CONST-3X	56X12	4.67	**20**	**93.4**			**53a**	SPEEDING/PASSING (PLATE)
MISCELLANEOUS SIGNS								
CONST-5	48X36	12.00						POINT OF PRESENCE
CONST-5	96X48	32.00	**2**	**64**				POINT OF PRESENCE
CONST-7	48X24	8.00	**2**	**16**				RATE OUR WORK ZONE
CONST-7	72X36	18.00	**2**	**36**				RATE OUR WORK ZONE
CONST-8	48X36	12.00	**6**	**72**				WORK ZONE NO PHONE ZONE
SPECIAL	30X24	5.00	**10**	**50**				TAKE TURNS
SPECIAL	30X24	5.00	**10**	**50**				TAKE TURNS AT MERGE
SPECIAL	96X48	32.00	**10**	**320**				USE BOTH LANES/TAKE TURN

	TOTAL
616-10.05 CONSTRUCTION SIGNS	7821
616-10.10 RELOCATED SIGNS	0

ITEM NUMBER	TOTAL QTY	DESCRIPTION
6122008		IMPACT ATTENUATOR 40 MPH (SAND BARRELS)
6122009		IMPACT ATTENUATOR 45 MPH (SAND BARRELS)
6122010		IMPACT ATTENUATOR 50 MPH (SAND BARRELS)
6122012		IMPACT ATTENUATOR 55 MPH (SAND BARRELS)
6122014		IMPACT ATTENUATOR 60 MPH (SAND BARRELS)
6122017		IMPACT ATTENUATOR 65 MPH (SAND BARRELS)
6122019	**2**	IMPACT ATTENUATOR 70 MPH (SAND BARRELS)
6122020	**40**	REPLACEMENT SAND BARREL
6122030	**5**	IMPACT ATTENUATOR (RELOCATION)
6123000A	**4**	TRUCK OR TRAILER MOUNTED ATTENUATOR (TMA)
6161008	**40**	ADVANCED WARNING RAIL SYSTEM
6161012		BUOYS (BOATS KEEP OUT)
6161013		BUOYS (NO WAKE)
6161014		SPECIAL SIGN ASSEMBLY (BOATS KEEP OUT)
6161025	**1000**	CHANNELIZER (TRIM LINE)
6161030		TYPE III MOVEABLE BARRICADE
6161033	**140**	DIRECTION INDICATOR BARRICADE
6161040	**16**	FLASHING ARROW PANEL
6161047		TYPE III OBJECT MARKER
6161051		WARNING LIGHT, TYPE A
6161052		WARNING LIGHT, TYPE B
6161053		WARNING LIGHT, TYPE C
6161055		SEQUENTIAL FLASHING WARNING LIGHT
6161070		TUBULAR MARKER
6161095		RADAR SPEED ADVISORY SYSTEM
6161096		CHANGEABLE MESSAGE SIGN, COMMISSION FURNISHED/RETAINED
6161098A	**12**	CHANGEABLE MESSAGE SIGN W/O COMM. INTERFACE, CONTRACTOR FURNISHED/RETAINED
6161099		CHANGEABLE MESSAGE SIGN WITH COMM. INTERFACE, CONTRACTOR FURNISHED/RETAINED
6162000A		WORK ZONE TRAFFIC SIGNAL SYSTEM
6162002	**24**	TEMPORARY LONG-TERM RUMBLE STRIPS
6162004		TEMPORARY SHORT-TERM RUMBLE STRIPS
6173600D	**3875**	TEMPORARY TRAFFIC BARRIER CONTRACTOR FURNISHED/RETAINED
6173700B	**27725**	TEMPORARY TRAFFIC BARRIER ANCHORED CONTRACTOR FURNISHED/RETAINED
6173602B		TEMPORARY TRAFFIC BARRIER CONTRACTOR FURNISHED/COMMISSION RETAINED
6174000A		TEMP. TRAFFIC BARRIER HEIGHT TRANSITION
6175010A		RELOCATING TEMPORARY TRAFFIC BARRIER
6176000B		TEMPORARY TRAFFIC BARRIER COMMISSION FURNISHED/RETAINED
6177000B		TEMP. TRAFFIC BARRIER HEIGHT TRANSITION COMMISSION FURNISHED/RETAINED
6208064A		TEMPORARY RAISED PAVEMENT MARKER
9029400		TEMPORARY TRAFFIC SIGNALS
9029401		TEMPORARY TRAFFIC SIGNALS AND LIGHTING

NOTES:
CHANGEABLE MESSAGE SIGN LOCATIONS TO BE DETERMINED BY ENGINEER.
NO DIRECT PAY FOR RELOCATION OF CONSTRUCTION SIGNING.
ALL WARNING SIGNS SHALL HAVE FLORESCENT SHEETING.

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.

SUMMARY OF QUANTITIES
SHEET 22 OF 22

STATE OF MISSOURI
PAUL JOSEPH KRONLAGE
NUMBER EN 023328
REGISTERED PROFESSIONAL ENGINEER
THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED 9/8/2021
ROUTE I-44 | STATE MO
DISTRICT CD | SHEET NO. 3
COUNTY PHELPS-CRAWFORD
JOB NO. J513397
CONTRACT ID.
PROJECT NO.
BRIDGE NO.

REV.	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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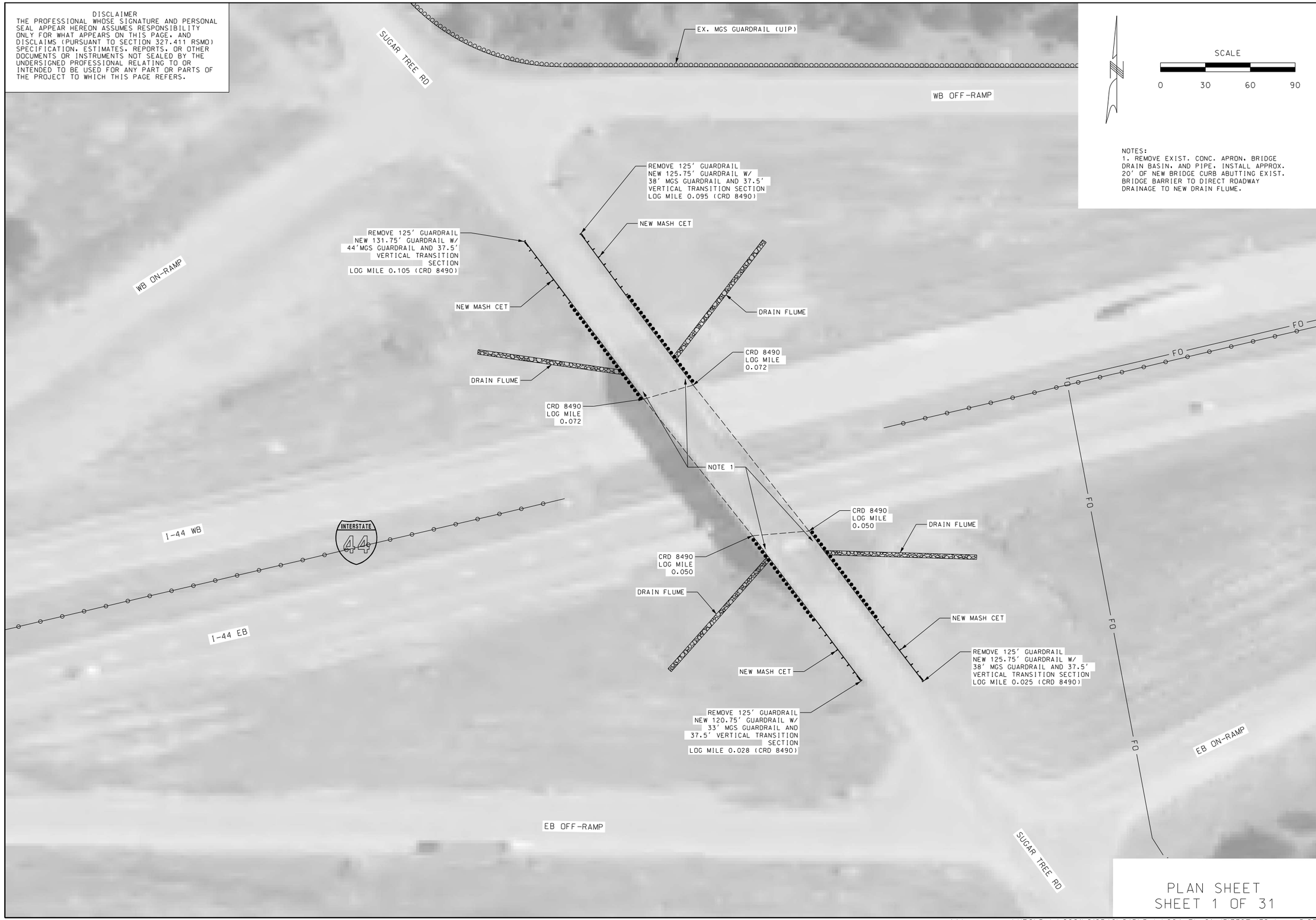

SCALE
0 30 60 90

NOTES:
1. REMOVE EXIST. CONC. APRON, BRIDGE DRAIN BASIN, AND PIPE. INSTALL APPROX. 20' OF NEW BRIDGE CURB ABUTTING EXIST. BRIDGE BARRIER TO DIRECT ROADWAY DRAINAGE TO NEW DRAIN FLUME.

PLAN SHEET
SHEET 1 OF 31

STATE OF MISSOURI
JASON S. DOHRMANN
PE-2004017159
PROFESSIONAL ENGINEER

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

DATE PREPARED
9/23/2021

ROUTE	STATE
I-44	MO
DISTRICT	SHEET NO.
CD	4

COUNTY
PHELPS

JOB NO.
J5I3397

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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HR GREEN, INC.
16020 SWINGLEY RIDGE ROAD,
SUITE 205
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SCALE
0 100 200 300 400 500

NOTES:
1. TYPE D BARRIER REQUIRES A MOMENT SLAB (I.E. THE RECONSTRUCTION OF THE SHOULDER WITH 8-INCH PAVEMENT MEETING THE REQUIREMENTS OF STANDARD DETAIL 617.10M (SHEET 8)

CRD 8490 LOG MILE 0.252
CRD 8490
CRD 8490 LOG MILE 0.183
SUGARTREE OR LOG MILE 0.014
SUGARTREE OUTER RD
SUGAR TREE RD
EX. MGS GUARDRAIL (UIP)
BRIDGE EXCEPTION CRD 8490 LOG MILE 0.079
I-44 WB LOG MILE 116.608
NEW 35' TYPE D BARRIER (SEE NOTE 1)
NEW MASH CET
END PVMT REPAIR D.L./P.L. LOG MILE 116.630
BEGIN PROJECT EB LOG MILE 176.521
EX. BULLNOSE (UIP)
I-44 EB LOG MILE 176.539
I-44 EB LOG MILE 176.532
EX. MGS GUARDRAIL (UIP)
EX. MASH CET (UIP)
BRIDGE EXCEPTION CRD 8490 LOG MILE 0.039
NEW 35' TYPE D BARRIER (SEE NOTE 1)
REMOVE 341' GUARDRAIL
NEW 263' MGS GUARDRAIL AND 37.5' BRIDGE APPR. TRANSITION SECTION
LOG MILE 116.535
I-44 WB LOG MILE 116.454 RAMP LOG MILE 0.043
REPLACE EX SHOULDER WITH NEW 4' ALTERNATE SHOULDER
REPAIR D.L./P.L. LOG MILE 116.400
REPLACE EX SHOULDER WITH NEW 4' ALTERNATE SHOULDER
I-44 EB LOG MILE 176.780
I-44 EB LOG MILE 176.741 RAMP LOG MILE 0.191
UIP AGGREGATE SHOULDER
EB ON-RAMP
RAMP LOG MILE 0.020
RAMP LOG MILE 0.004
RAMP LOG MILE 0.198
RAMP LOG MILE 0.216
EB OFF-RAMP
I-44 EB LOG MILE 176.402 RAMP LOG MILE 0.060
I-44 WB
I-44 EB
APPROX. EX. ROW
SUGARTREE OR LOG MILE 0.132
ARLINGTON OUTER RD
APPROX. EX. ROW
OUTER RD LOG MILE 2.788
SUGAR TREE RD
APPROX. EX. ROW
CRD 7300 LOG MILE 0.146
CRD 7300
FO

LEGEND

COLD MILL 2" ASPHALT REPLACE WITH 2" SP125BSMA (PG 76-22)	COLD MILL 3/4" UBAWS OVERLAY WITH 3/4" TYPE C UBAWS
COLD MILL 1 3/4" ASPHALT (SHOULDER) REPLACE WITH 1 3/4" BP-1 (PG 64-22)	8" UNBONDED OVERLAY, PCCP W/ GEOTEXTILE FABRIC BONDBREAKER
COLD MILL 3" ASPHALT (RAMP) REPLACE WITH 3" SP125BSMA (PG 76-22)	AGGREGATE SURFACE
COLD MILL 1 3/4" ASPHALT (RAMP) REPLACE WITH 1 3/4" SP125BSMA (PG 76-22)	1" CONTRACT LEVELING COURSE

PLAN SHEET
SHEET 2 OF 31

STATE OF MISSOURI
JASON S. DOHRMANN
PE-2004017159
PROFESSIONAL ENGINEER

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

DATE PREPARED 9/23/2021

ROUTE	STATE
I-44	MO
DISTRICT	SHEET NO.
CD	5

COUNTY: PHELPS
JOB NO.: J5I3397
CONTRACT ID.:
PROJECT NO.:
BRIDGE NO.:

DESCRIPTION	DATE

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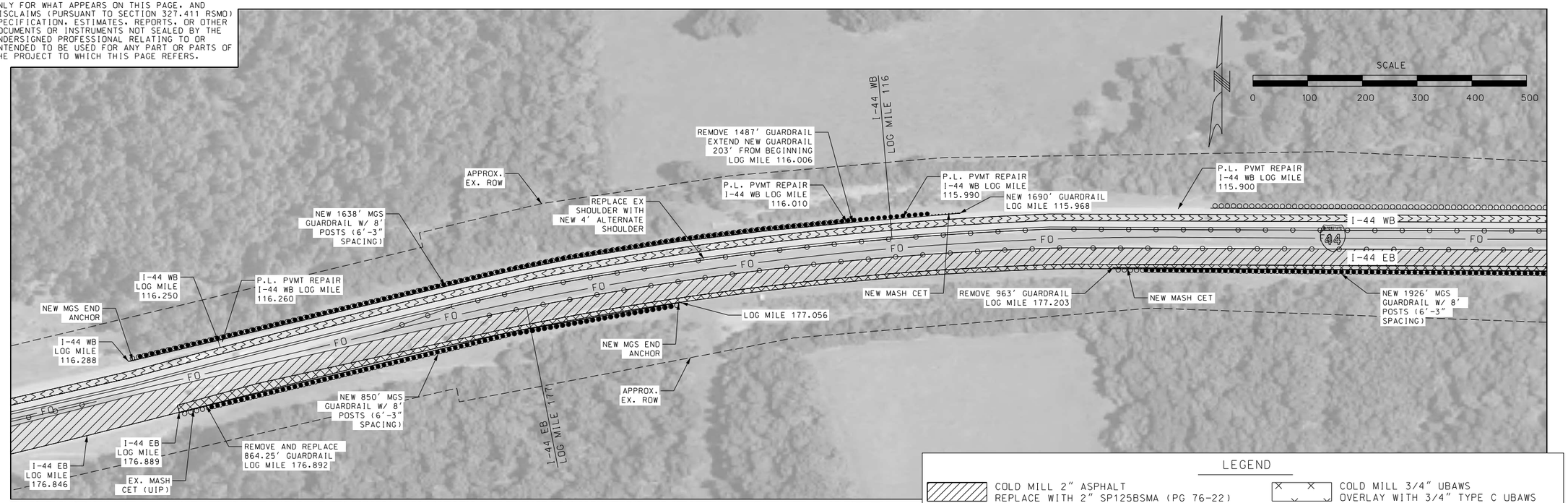

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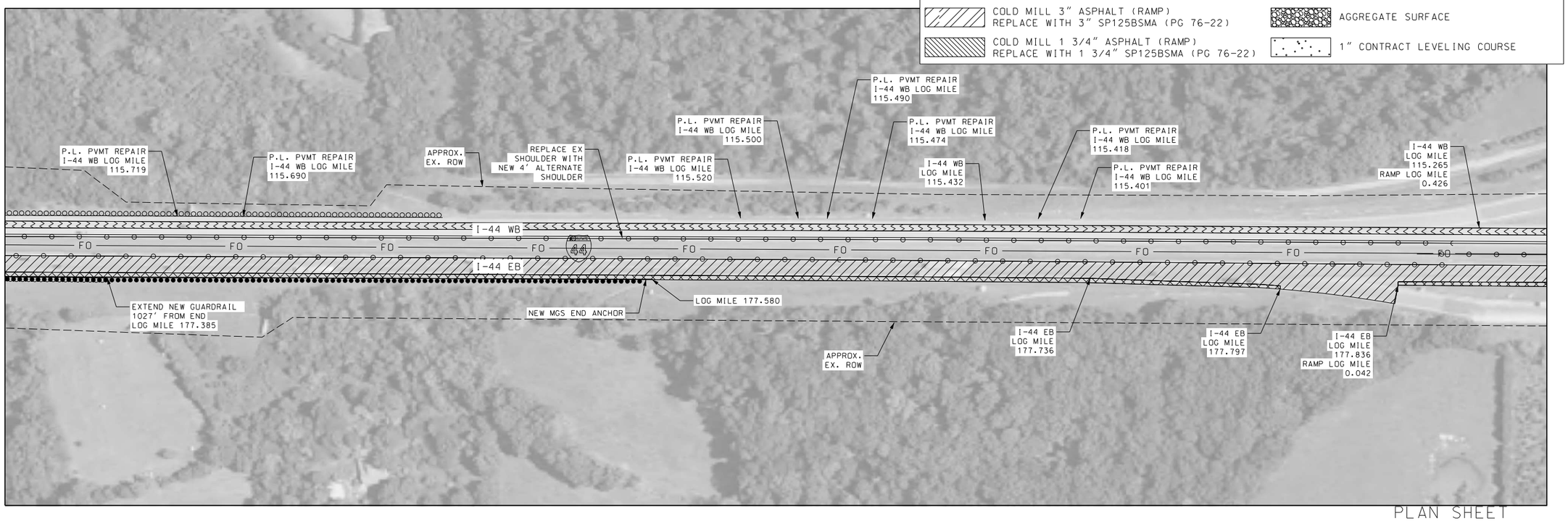

PLAN SHEET
SHEET 3 OF 31

JASON S. DOHRMANN
PE-2004017159
STATE OF MISSOURI
PROFESSIONAL ENGINEER

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DATE PREPARED 9/23/2021

ROUTE	STATE
I-44	MO
DISTRICT	SHEET NO.
CD	6

COUNTY: PHELPS
JOB NO.: J5I3397
CONTRACT ID.:
PROJECT NO.:
BRIDGE NO.:

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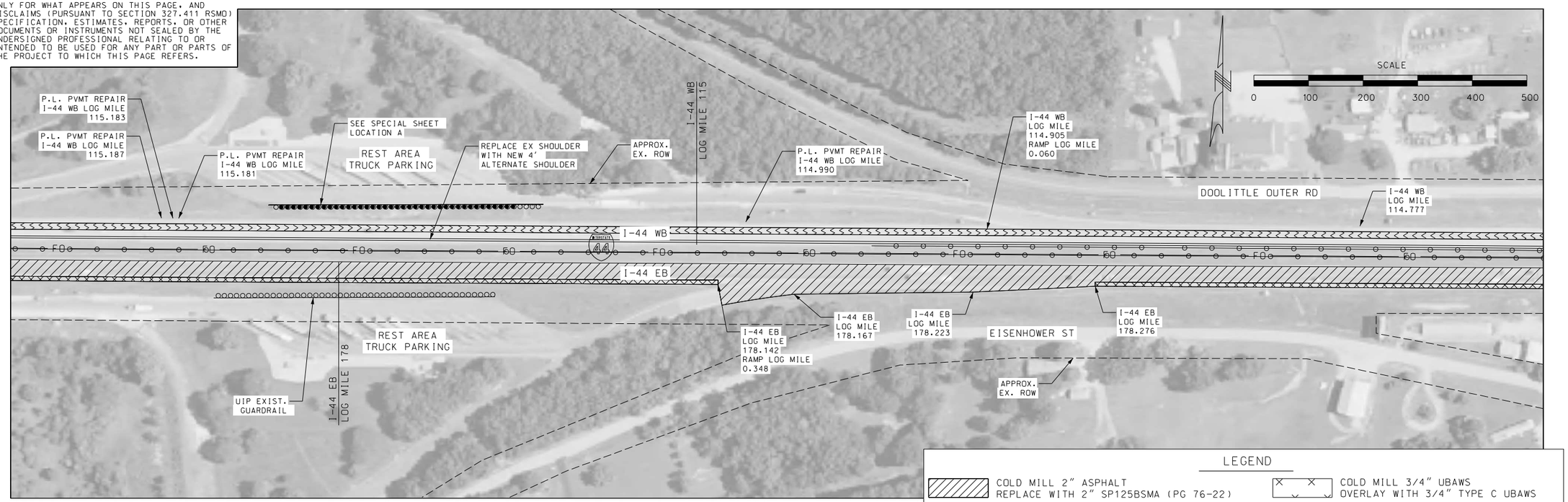

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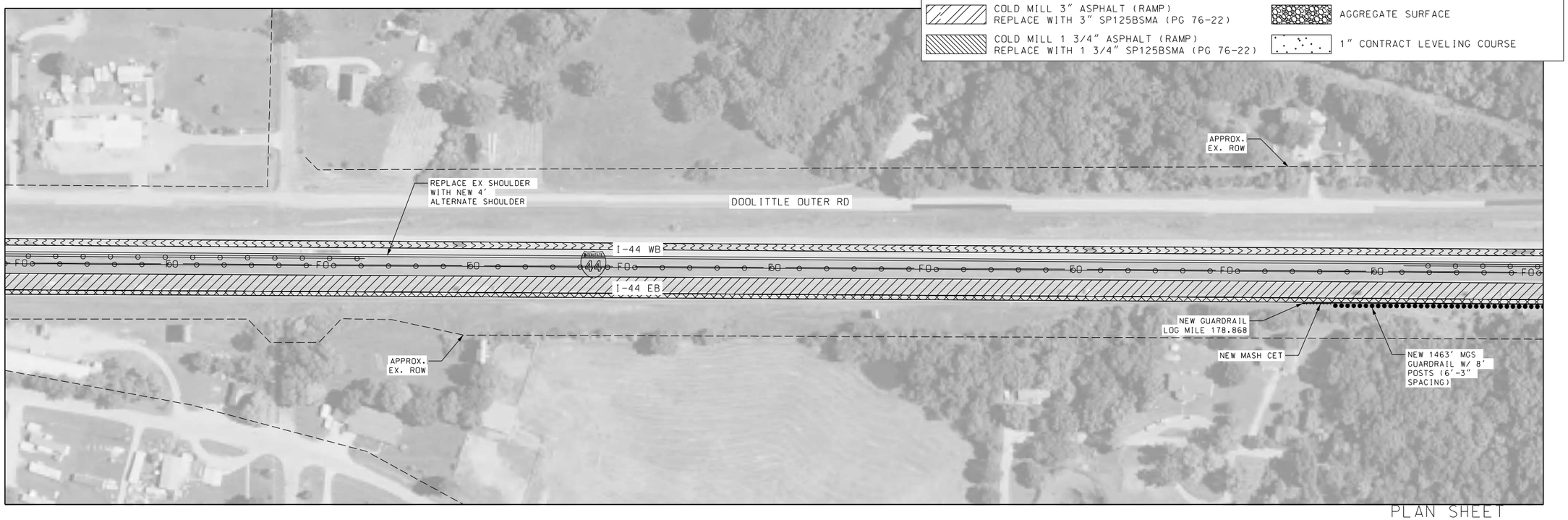
- 8" UNBONDED OVERLAY, PCCP W/ GEOTEXTILE FABRIC BONDBREAKER
- AGGREGATE SURFACE
- 1" CONTRACT LEVELING COURSE



PLAN SHEET
SHEET 4 OF 31

PROFESSIONAL ENGINEER
STATE OF MISSOURI
JASON S. DOHRMANN
PE-2004017159

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

DATE PREPARED	
9/23/2021	
ROUTE	STATE
I-44	MO
DISTRICT	SHEET NO.
CD	7
COUNTY	
PHELPS	
JOB NO.	
J5I3397	
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	

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LEGEND

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- COLD MILL 3" ASPHALT (RAMP), REPLACE WITH 3" SP125BSMA (PG 76-22)
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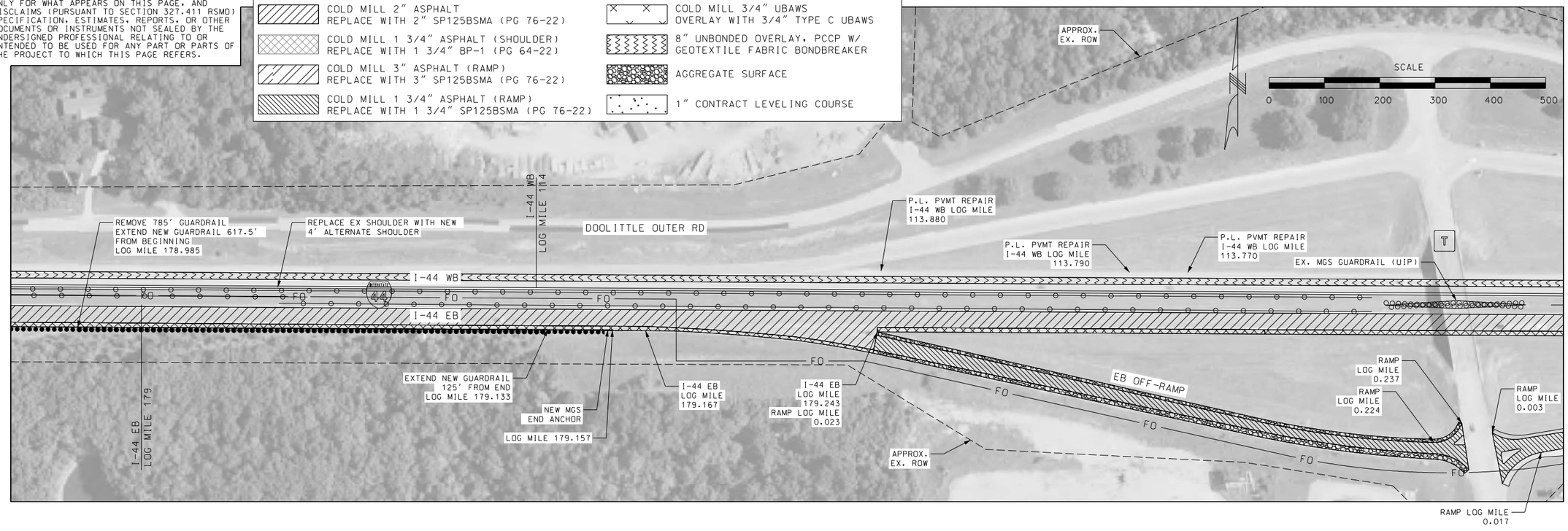
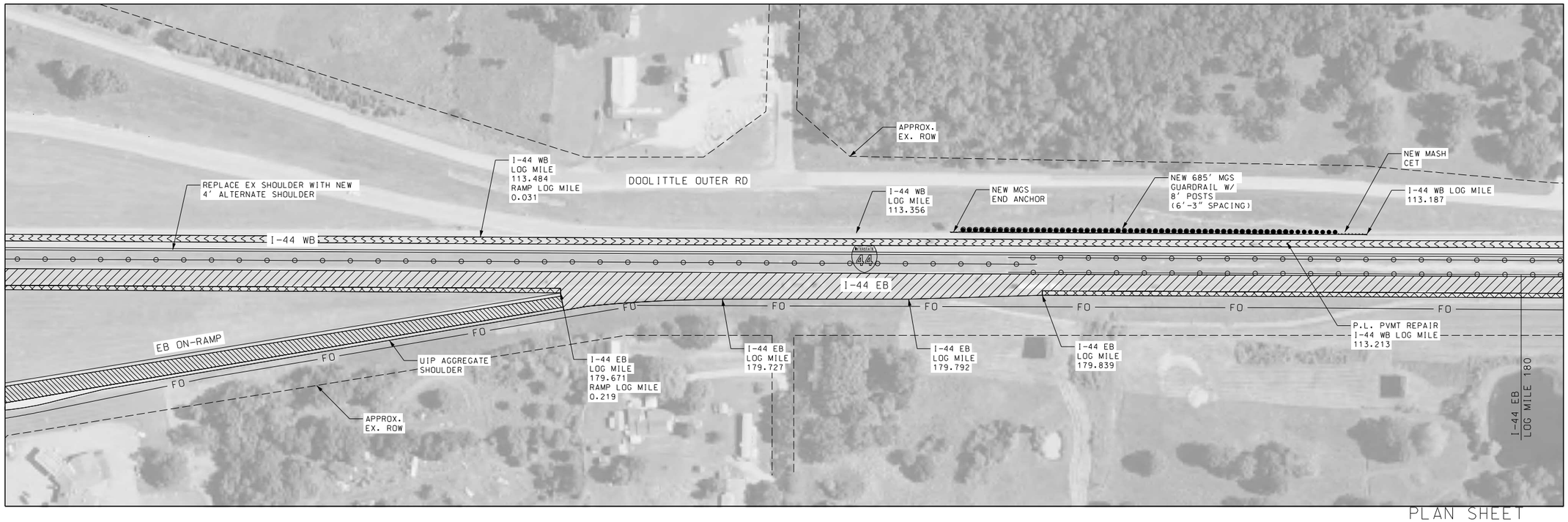
- AGGREGATE SURFACE
- 1" CONTRACT LEVELING COURSE





PLAN SHEET
SHEET 5 OF 31

STATE OF MISSOURI
JASON S. DOHRMANN
PE-2004017159
PROFESSIONAL ENGINEER

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DATE PREPARED
9/23/2021

ROUTE	STATE
I-44	MO
DISTRICT	SHEET NO.
CD	8

COUNTY
PHELPS

JOB NO.
J5I3397

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DESCRIPTION	DATE

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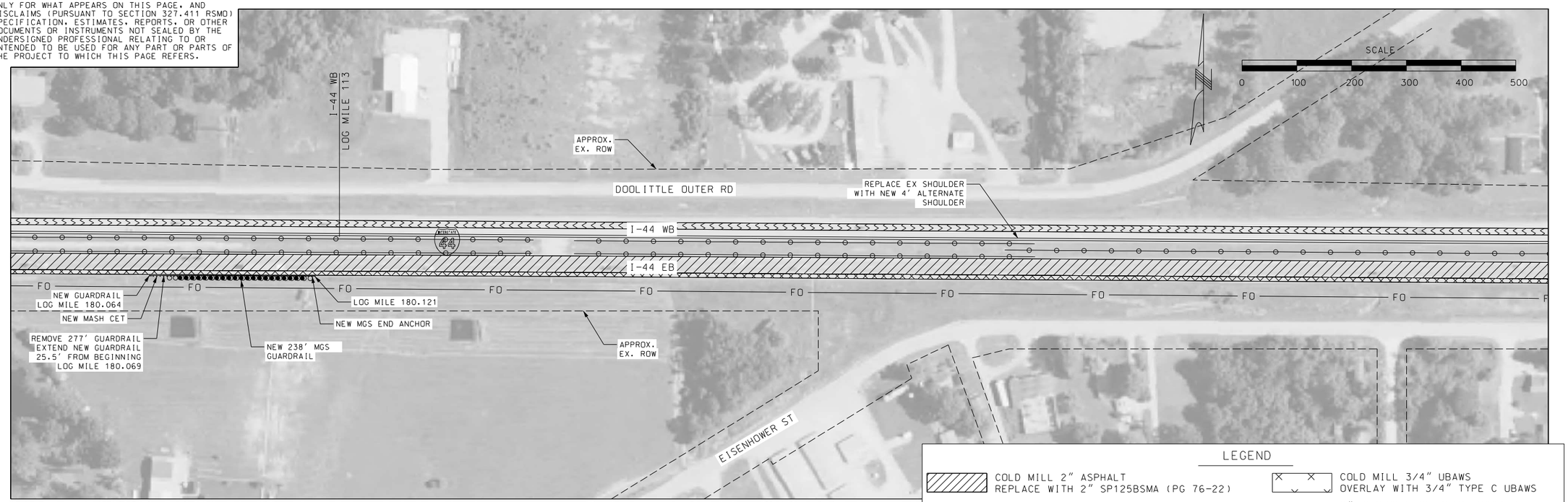

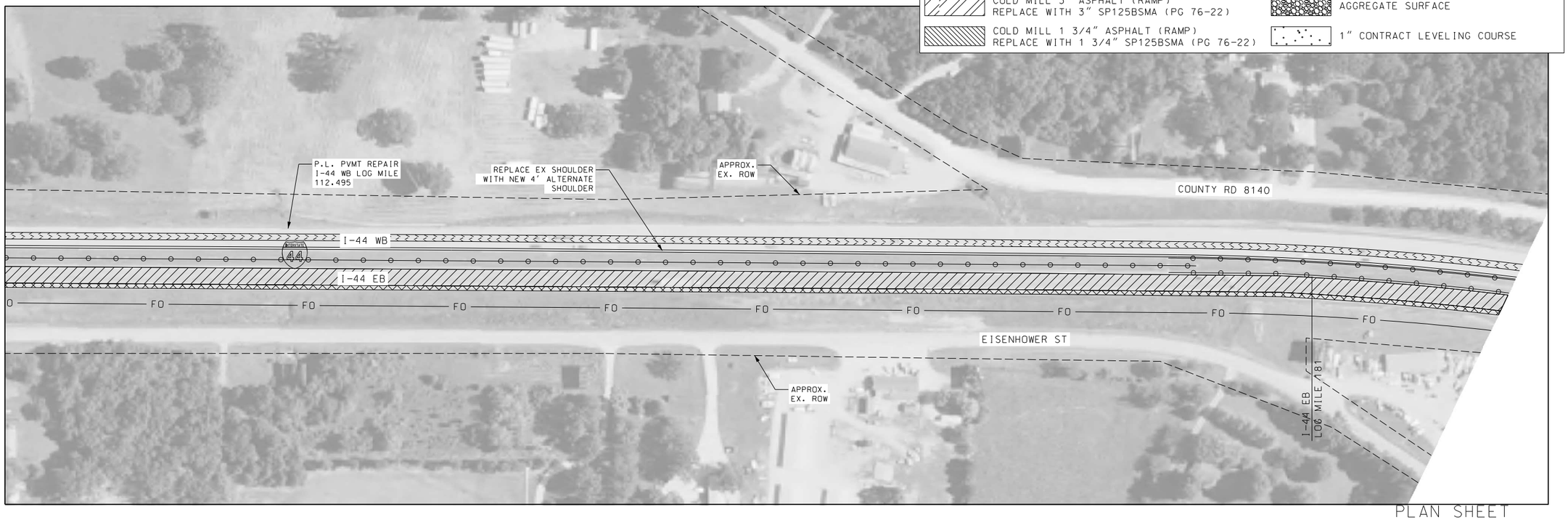

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- AGGREGATE SURFACE
- 1" CONTRACT LEVELING COURSE

PLAN SHEET
SHEET 6 OF 31

STATE OF MISSOURI
JASON S. DOHRMANN
PE-2004017159
PROFESSIONAL ENGINEER

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

DATE PREPARED 9/23/2021

ROUTE	STATE
I-44	MO
DISTRICT	SHEET NO.
CD	9

COUNTY PHELPS
JOB NO. J5I3397
CONTRACT ID.
PROJECT NO.
BRIDGE NO.

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DESCRIPTION	DATE

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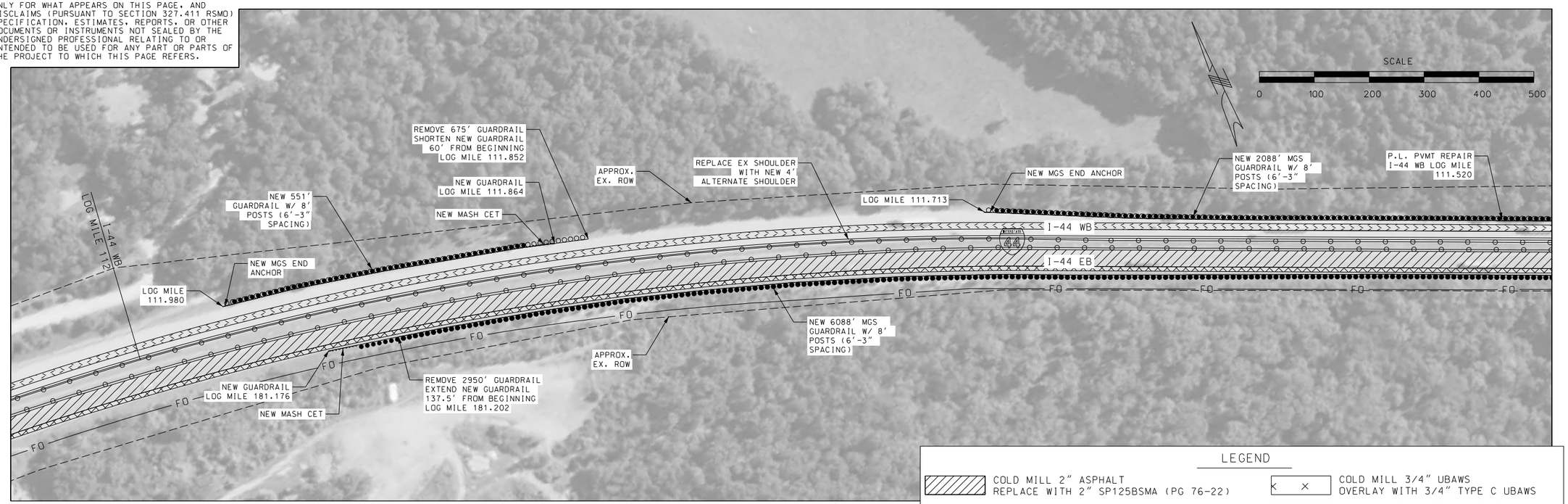

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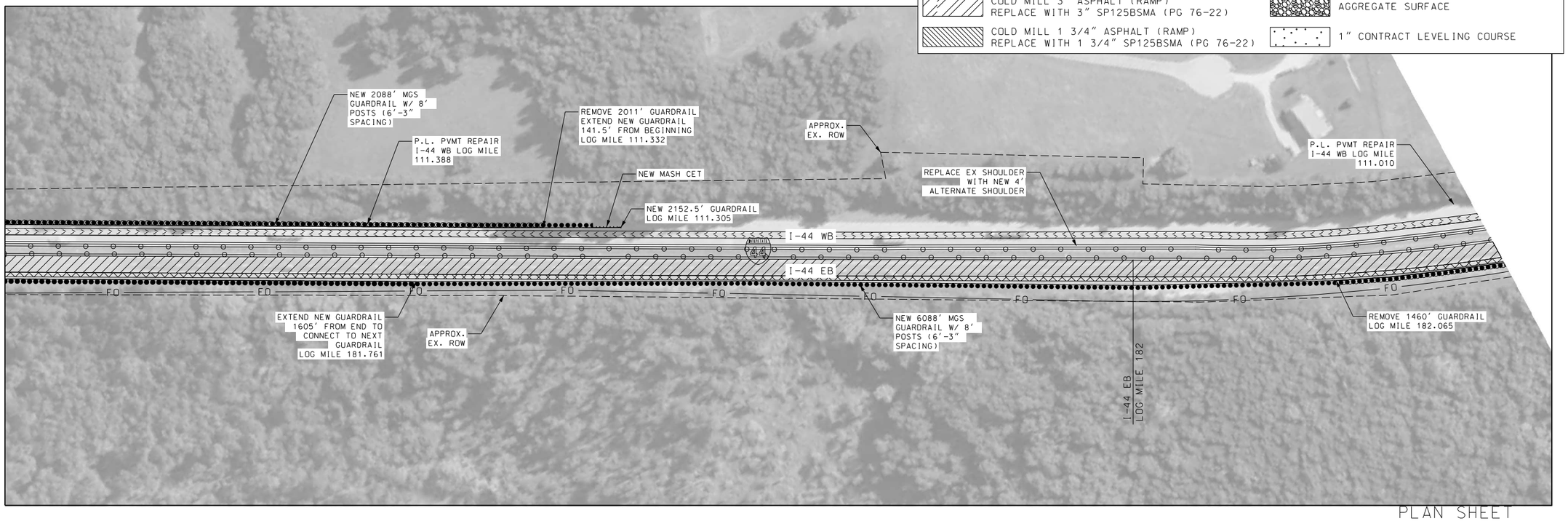

PLAN SHEET
SHEET 7 OF 31

STATE OF MISSOURI
JASON S. DOHRMANN
PE-2004017159
PROFESSIONAL ENGINEER

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DATE PREPARED	
9/23/2021	
ROUTE	STATE
I-44	MO
DISTRICT	SHEET NO.
CD	10
COUNTY	
PHELPS	
JOB NO.	
J5I3397	
CONTRACT ID.	
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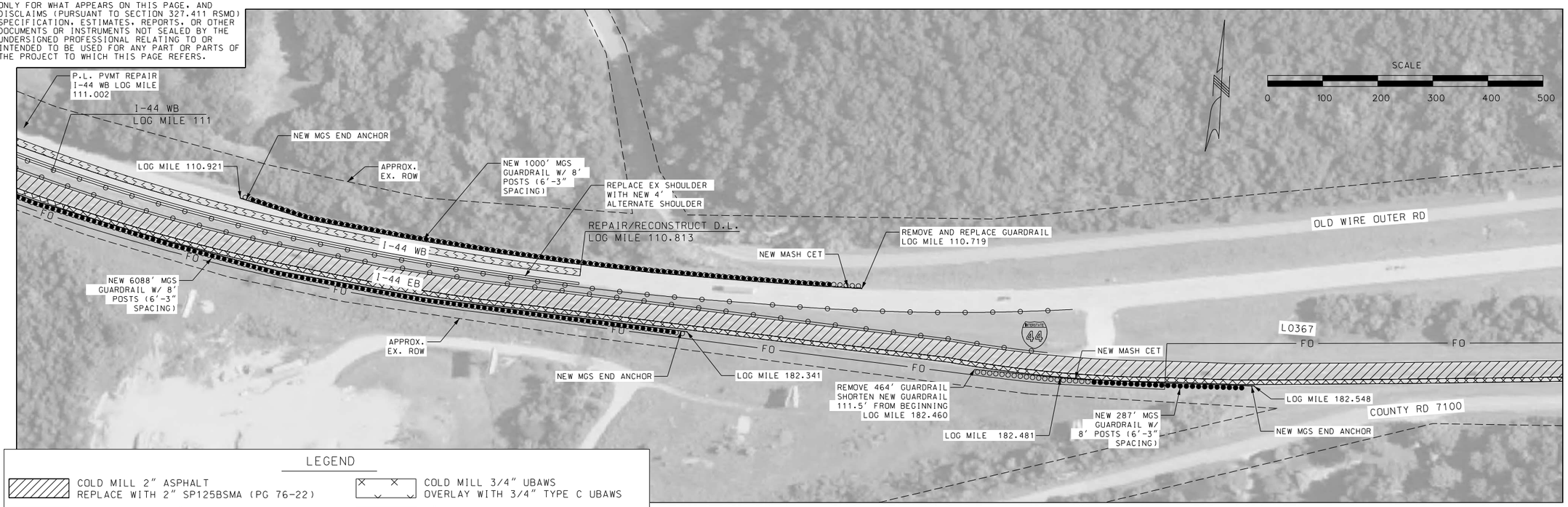

LEGEND

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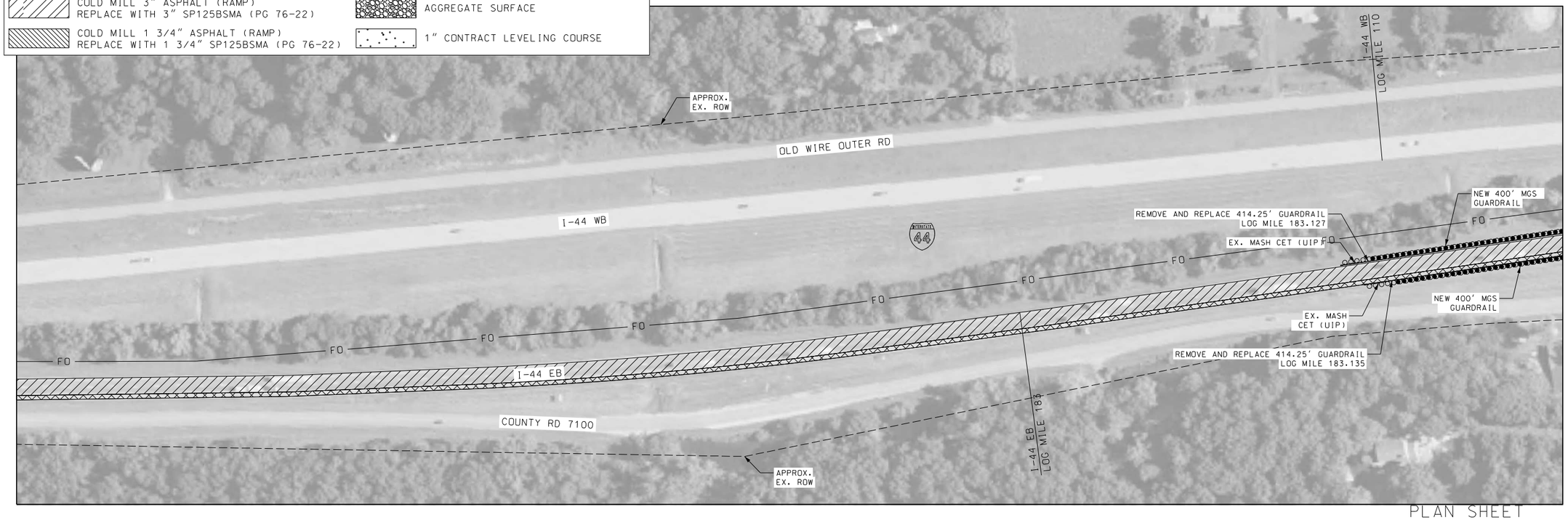

PLAN SHEET
SHEET 8 OF 31

STATE OF MISSOURI
JASON S. DOHRMANN
PE-2004017159
PROFESSIONAL ENGINEER

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

DATE PREPARED
9/23/2021

ROUTE	STATE
I-44	MO
DISTRICT	SHEET NO.
CD	11

COUNTY
PHELPS

JOB NO.
J5I3397

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DESCRIPTION	DATE

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MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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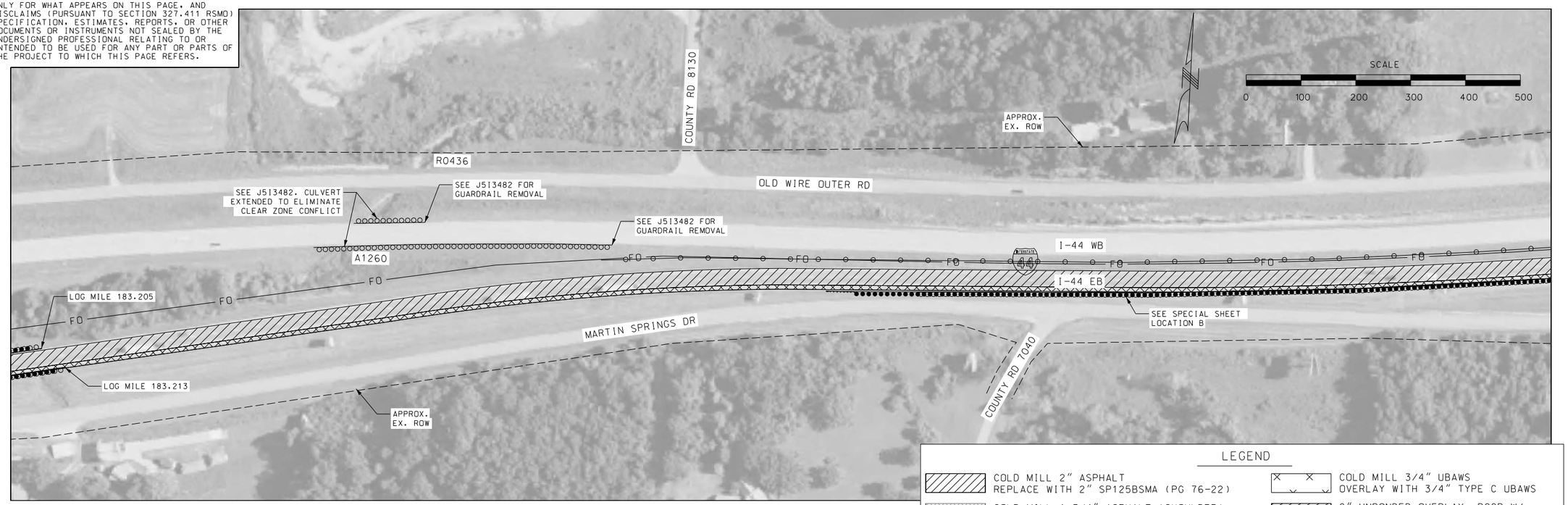

LEGEND

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- COLD MILL 1 3/4" ASPHALT (SHOULDER) REPLACE WITH 1 3/4" BP-1 (PG 64-22)
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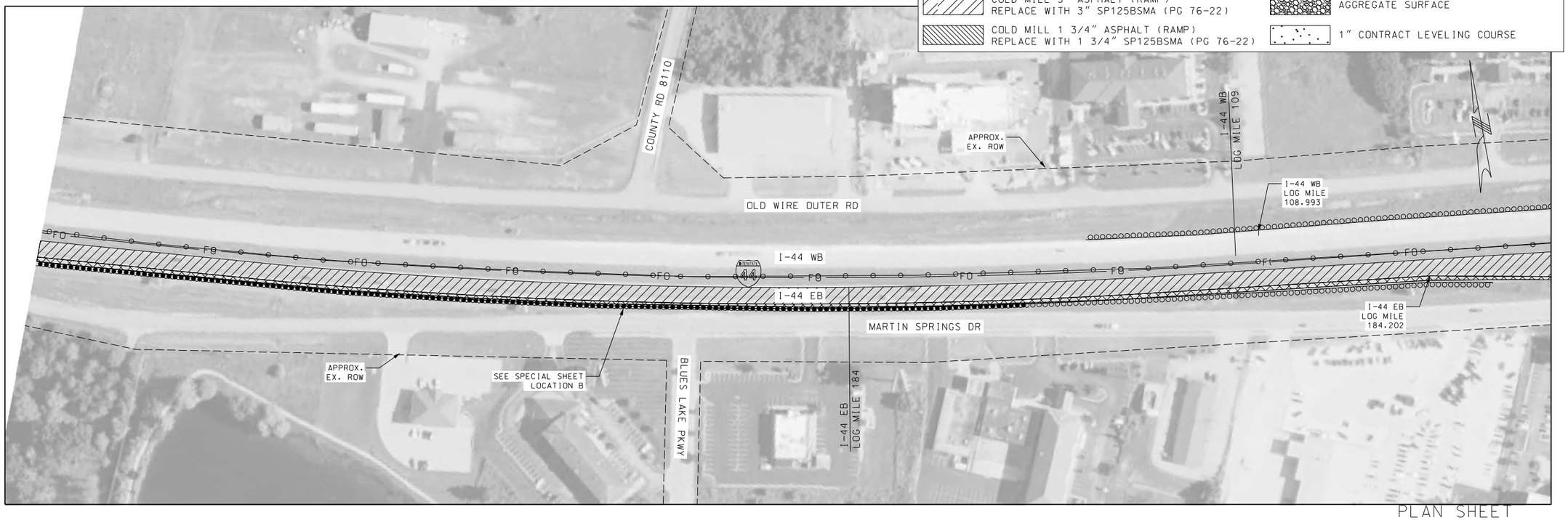
- COLD MILL 1 3/4" ASPHALT (RAMP) REPLACE WITH 1 3/4" SP125BSMA (PG 76-22)
- COLD MILL 3/4" UBAWS OVERLAY WITH 3/4" TYPE C UBAWS
- 8" UNBONDED OVERLAY, PCCP W/ GEOTEXTILE FABRIC BONDBREAKER
- AGGREGATE SURFACE
- 1" CONTRACT LEVELING COURSE



PLAN SHEET
SHEET 9 OF 31

STATE OF MISSOURI
JASON S. DOHRMANN
PE-2004017159
PROFESSIONAL ENGINEER

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

DATE PREPARED 9/23/2021

ROUTE	STATE
I-44	MO
DISTRICT	SHEET NO.
CD	12

COUNTY PHELPS
JOB NO. J5I3397
CONTRACT ID.
PROJECT NO.
BRIDGE NO.

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

DESCRIPTION	DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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

HR GREEN, INC.
16020 SWINGLEY RIDGE ROAD,
SUITE 205
ST. LOUIS, MISSOURI 63017
PHONE: (636) 519.0990
CORPORATE LICENSE #2002006608

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LEGEND

- COLD MILL 2" ASPHALT / REPLACE WITH 2" SP125BSMA (PG 76-22)
- COLD MILL 1 3/4" ASPHALT (SHOULDER) / REPLACE WITH 1 3/4" BP-1 (PG 64-22)
- COLD MILL 3" ASPHALT (RAMP) / REPLACE WITH 3" SP125BSMA (PG 76-22)
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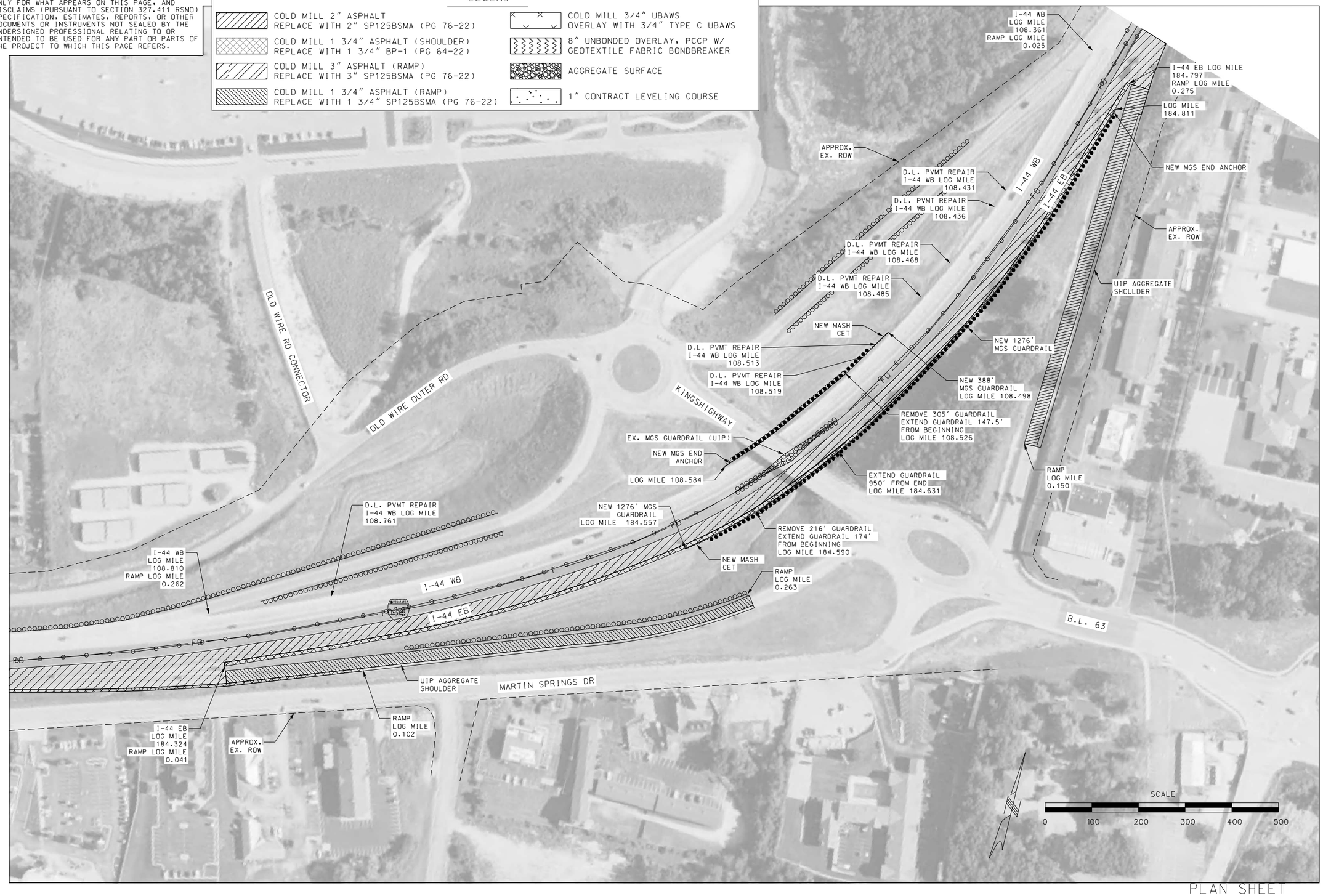
- AGGREGATE SURFACE
- 1" CONTRACT LEVELING COURSE



PLAN SHEET
SHEET 10 OF 31

STATE OF MISSOURI
JASON S. DOHRMANN
PE-2004017159
PROFESSIONAL ENGINEER

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

DATE PREPARED 9/23/2021

ROUTE	STATE
I-44	MO
DISTRICT	SHEET NO.
CD	13

COUNTY: PHELPS
JOB NO.: J5I3397
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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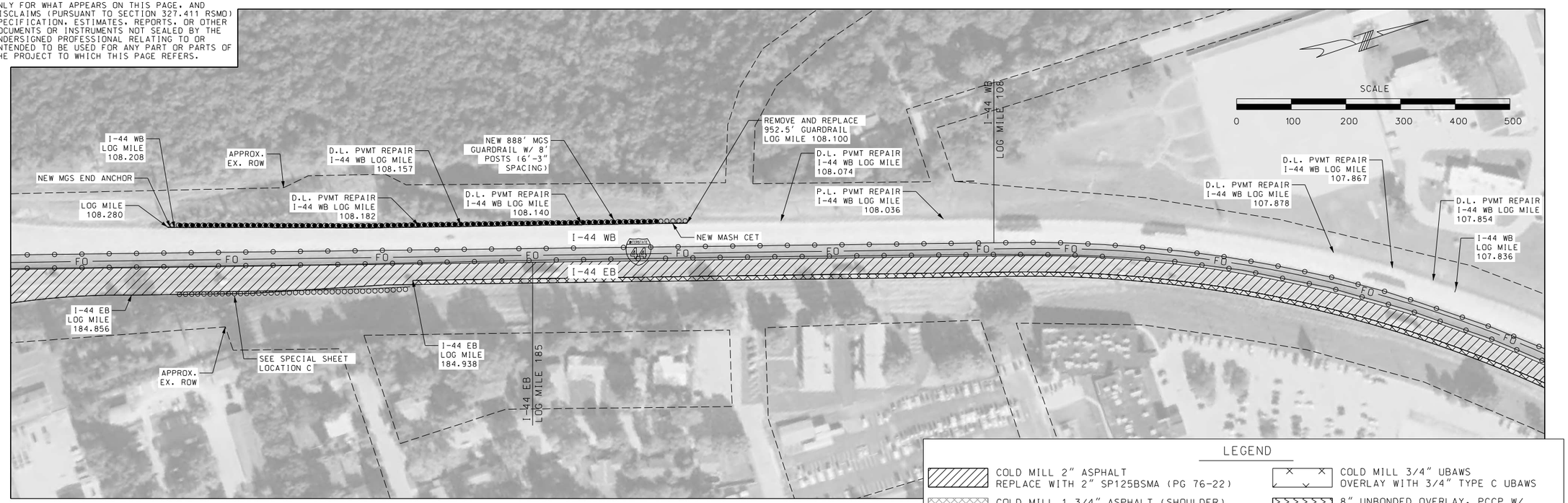

LEGEND

- COLD MILL 2" ASPHALT REPLACE WITH 2" SP125BSMA (PG 76-22)
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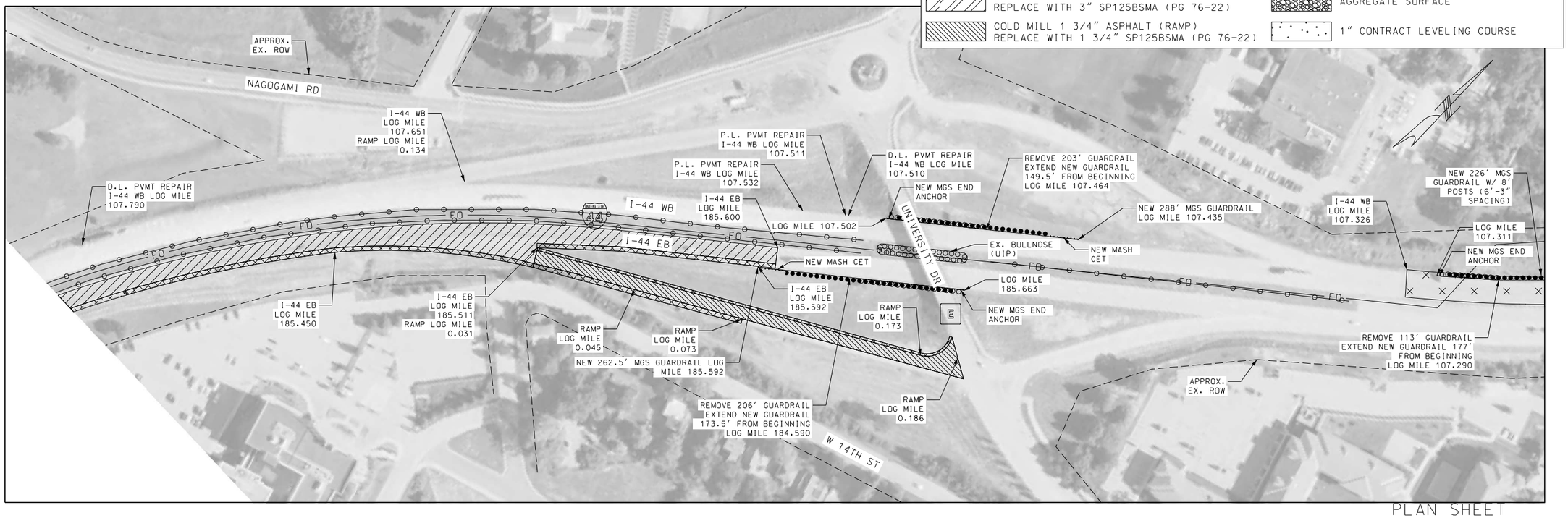
- 8" UNBONDED OVERLAY, PCCP W/ GEOTEXTILE FABRIC BONDBREAKER
- AGGREGATE SURFACE
- 1" CONTRACT LEVELING COURSE



PLAN SHEET
SHEET 11 OF 31

JASON S. DOHRMANN PE-2004017159
PROFESSIONAL ENGINEER — STATE OF MISSOURI

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

DATE PREPARED	
9/23/2021	
ROUTE	STATE
I-44	MO
DISTRICT	SHEET NO.
CD	14
COUNTY	
PHELPS	
JOB NO.	
J5I3397	
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	

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

NO.	DESCRIPTION	DATE

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JEFFERSON CITY, MO 65102
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HR GREEN, INC.
16020 SWINGLEY RIDGE ROAD.
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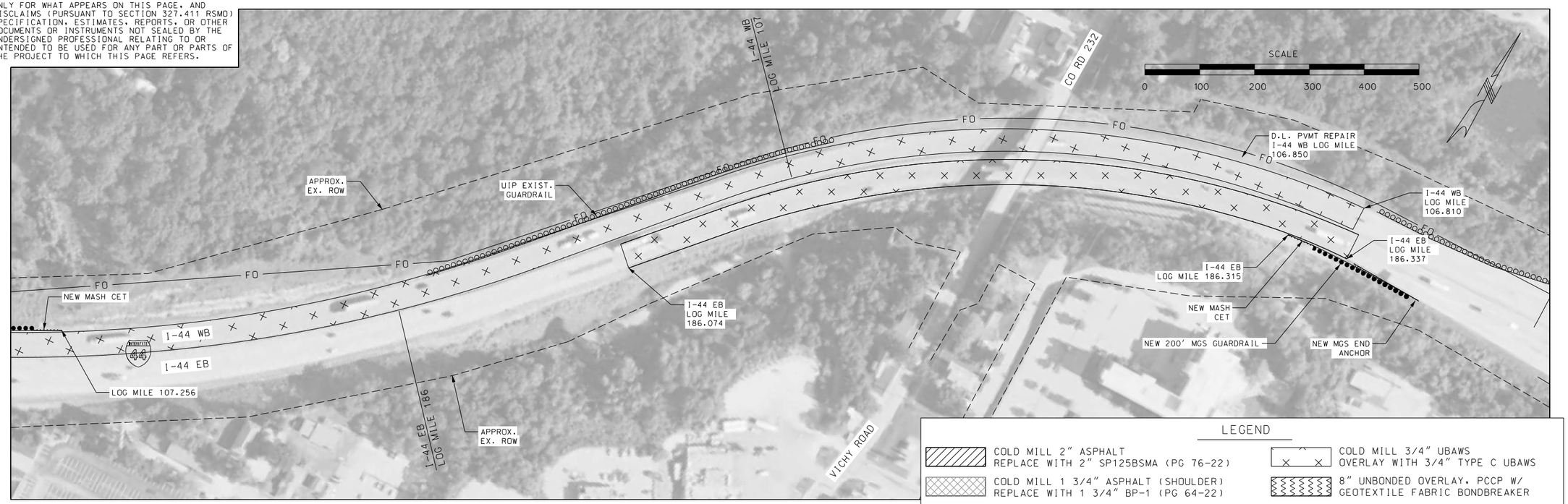

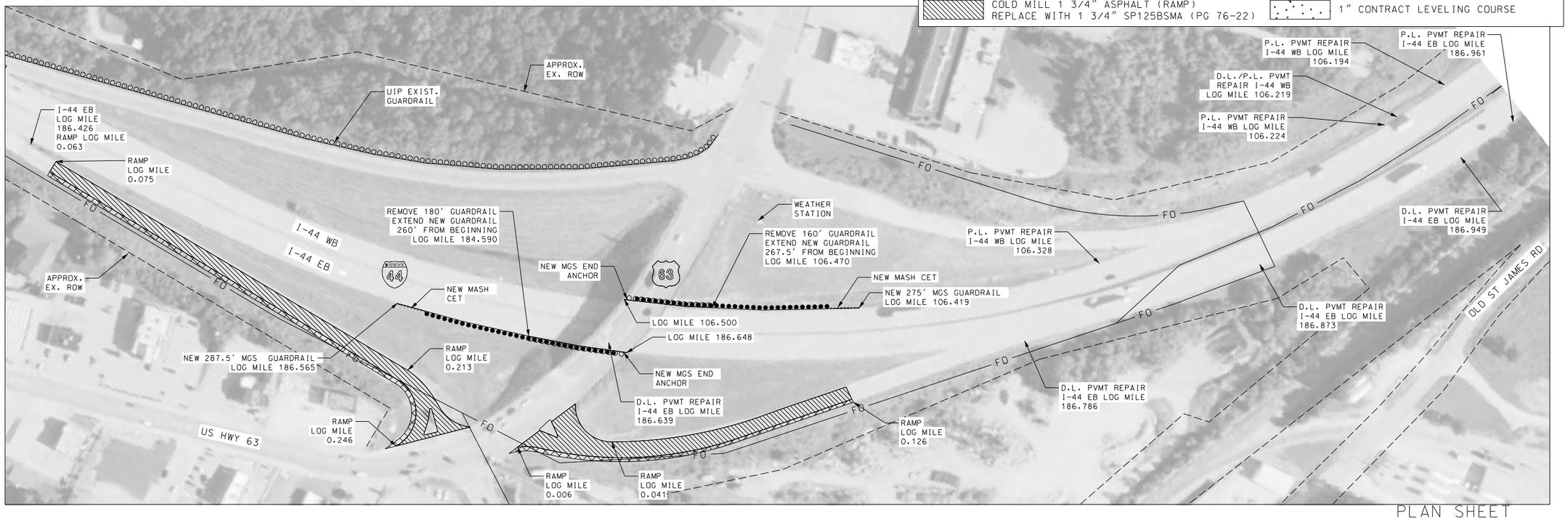

LEGEND

- COLD MILL 2" ASPHALT — REPLACE WITH 2" SP125BSMA (PG 76-22)
- COLD MILL 1 3/4" ASPHALT (SHOULDER) — REPLACE WITH 1 3/4" BP-1 (PG 64-22)
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- COLD MILL 3/4" UBAWS — OVERLAY WITH 3/4" TYPE C UBAWS
- 8" UNBONDED OVERLAY, PCCP W/ GEOTEXTILE FABRIC BONDBREAKER
- AGGREGATE SURFACE
- 1" CONTRACT LEVELING COURSE

PLAN SHEET
SHEET 12 OF 31

JASON S. DOHRMANN PE-2004017159
STATE OF MISSOURI PROFESSIONAL ENGINEER

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

DATE PREPARED: 9/23/2021

ROUTE	STATE
I-44	MO

DISTRICT	SHEET NO.
CD	15

COUNTY: PHELPS
JOB NO.: J5I3397
CONTRACT ID.:
PROJECT NO.:
BRIDGE NO.:

DESCRIPTION	DATE

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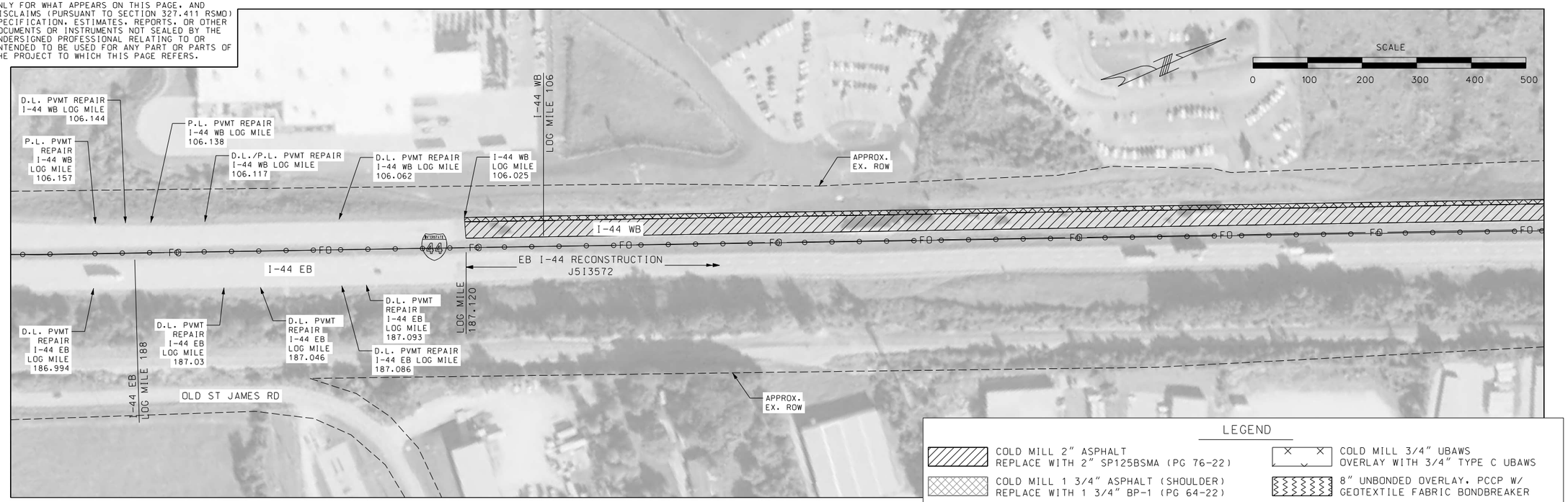

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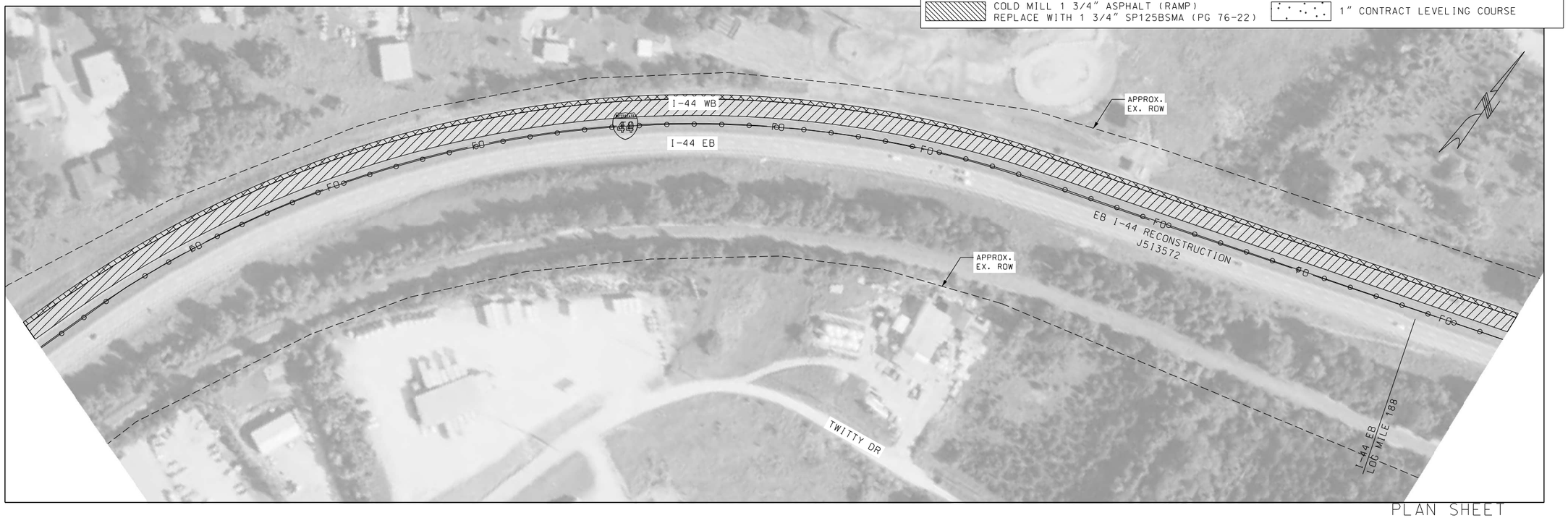

PLAN SHEET
SHEET 13 OF 31

JASON S. DOHRMANN PE-2004017159
STATE OF MISSOURI PROFESSIONAL ENGINEER

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

DATE PREPARED 9/23/2021

ROUTE	STATE
I-44	MO
DISTRICT	SHEET NO.
CD	16

COUNTY PHELPS
JOB NO. J5I3397
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)

HR GREEN, INC.
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ST. LOUIS, MISSOURI 63017
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CORPORATE LICENSE #2002006608

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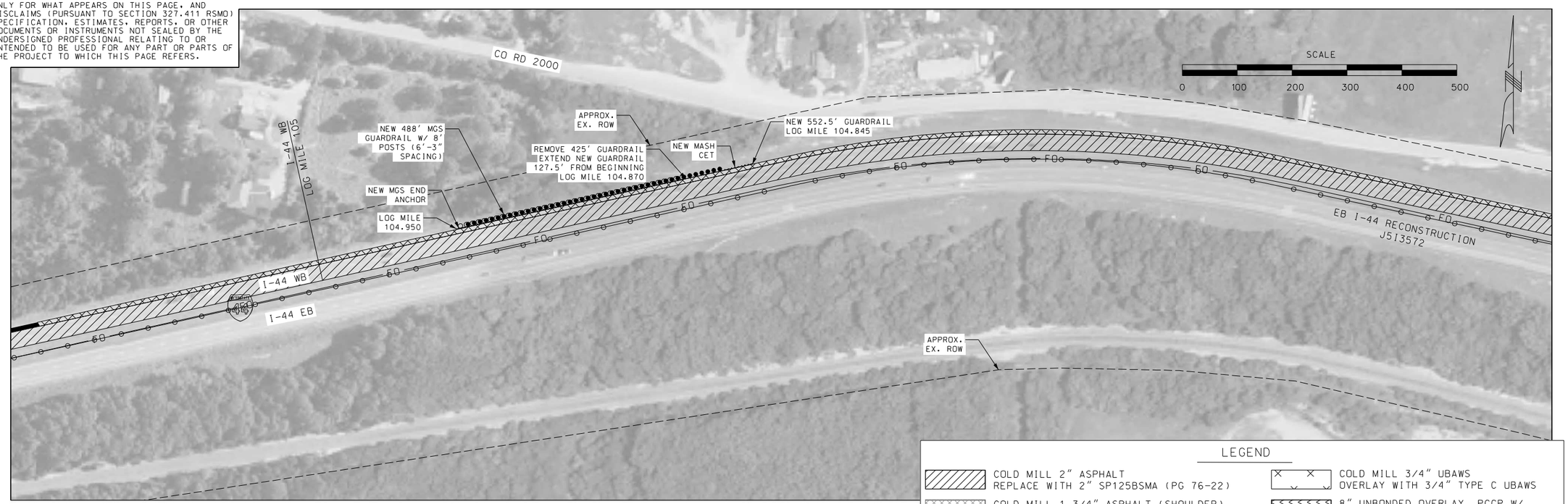

LEGEND

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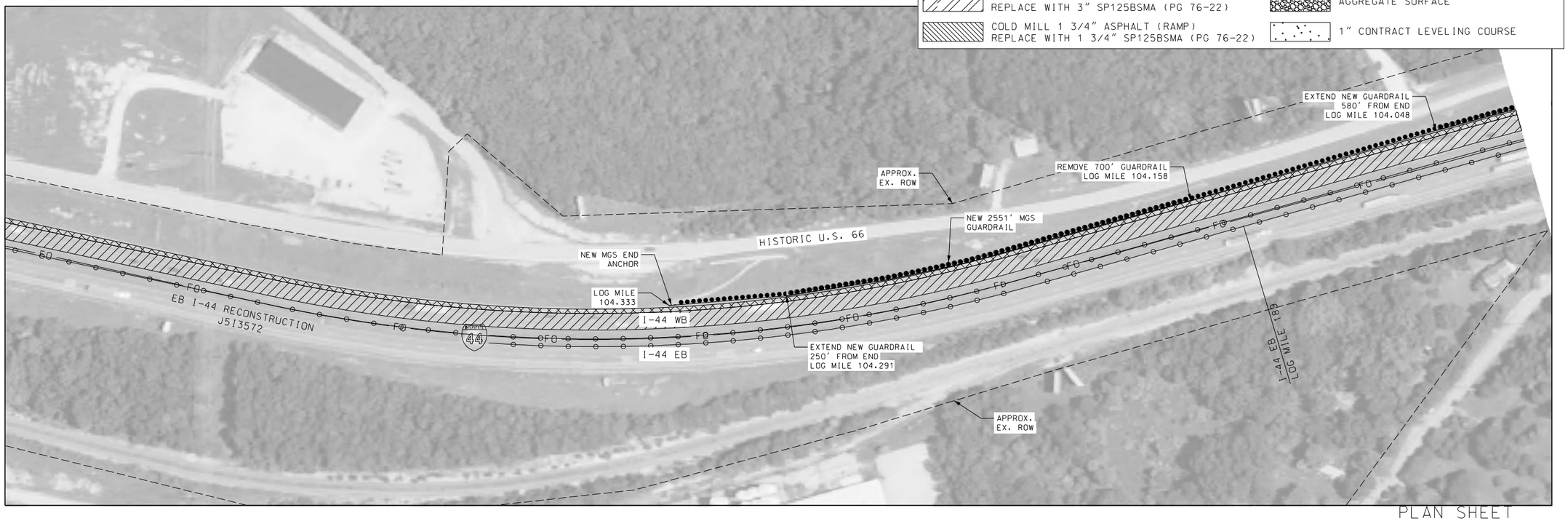
- AGGREGATE SURFACE
- 1" CONTRACT LEVELING COURSE



PLAN SHEET
SHEET 14 OF 31

STATE OF MISSOURI
JASON S. DOHRMANN
PE-2004017159
PROFESSIONAL ENGINEER

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

DATE PREPARED	
9/23/2021	
ROUTE	STATE
I-44	MO
DISTRICT	SHEET NO.
CD	17
COUNTY	
PHELPS	
JOB NO.	
J5I3397	
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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105 WEST CAPITOL
JEFFERSON CITY, MO 65102
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16020 SWINGLEY RIDGE ROAD,
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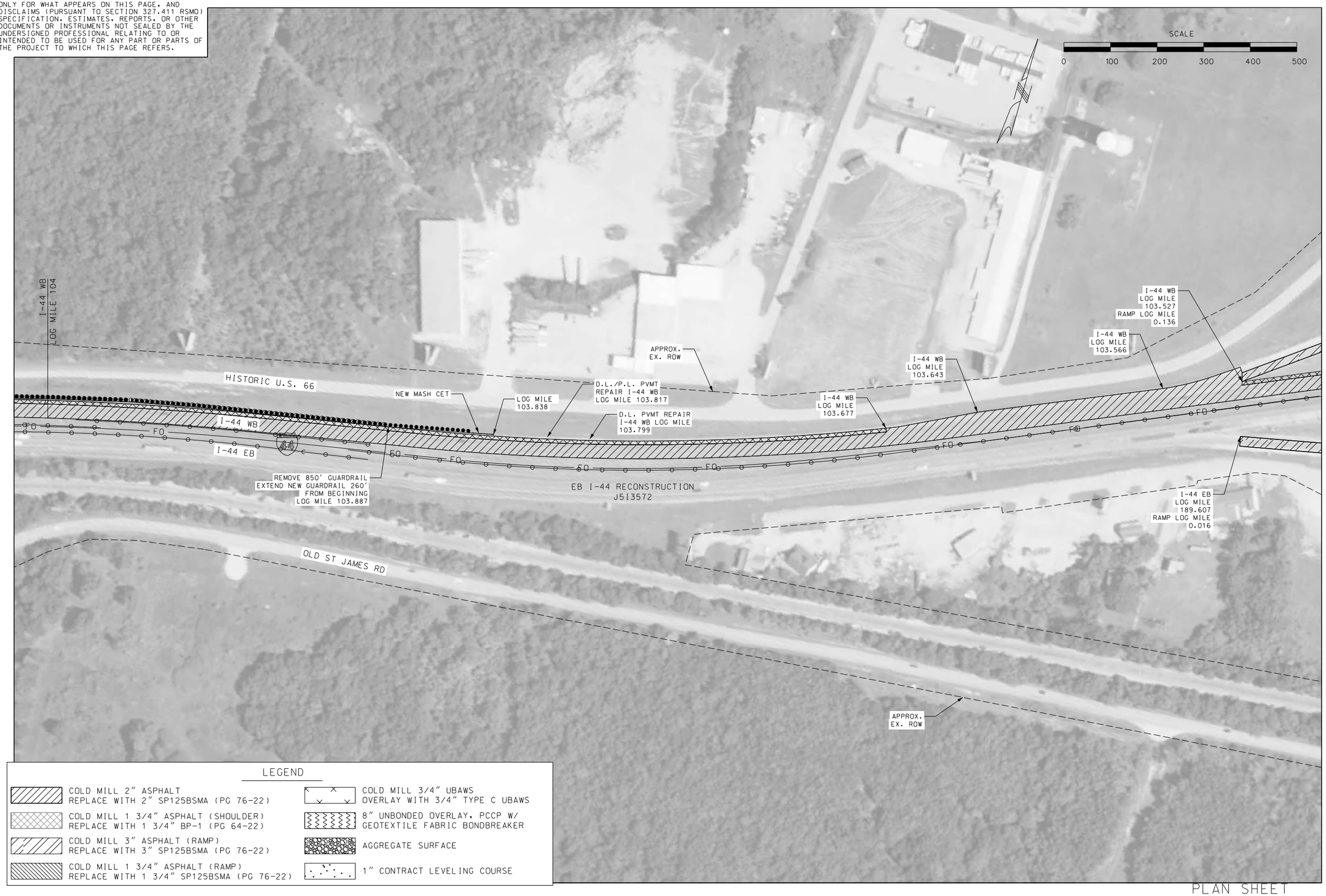

LEGEND

- COLD MILL 2" ASPHALT
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- COLD MILL 1 3/4" ASPHALT (SHOULDER)
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  OVERLAY WITH 3/4" TYPE C UBAWS
- 8" UNBONDED OVERLAY, PCCP W/
  GEOTEXTILE FABRIC BONDBREAKER
- AGGREGATE SURFACE
- 1" CONTRACT LEVELING COURSE

PLAN SHEET
SHEET 15 OF 31

JASON S. DOHRMANN
PE-2004017159
STATE OF MISSOURI
PROFESSIONAL ENGINEER

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

DATE PREPARED
9/23/2021

ROUTE	STATE
I-44	MO
DISTRICT	SHEET NO.
CD	18

COUNTY
PHELPS

JOB NO.
J513397

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DESCRIPTION	DATE

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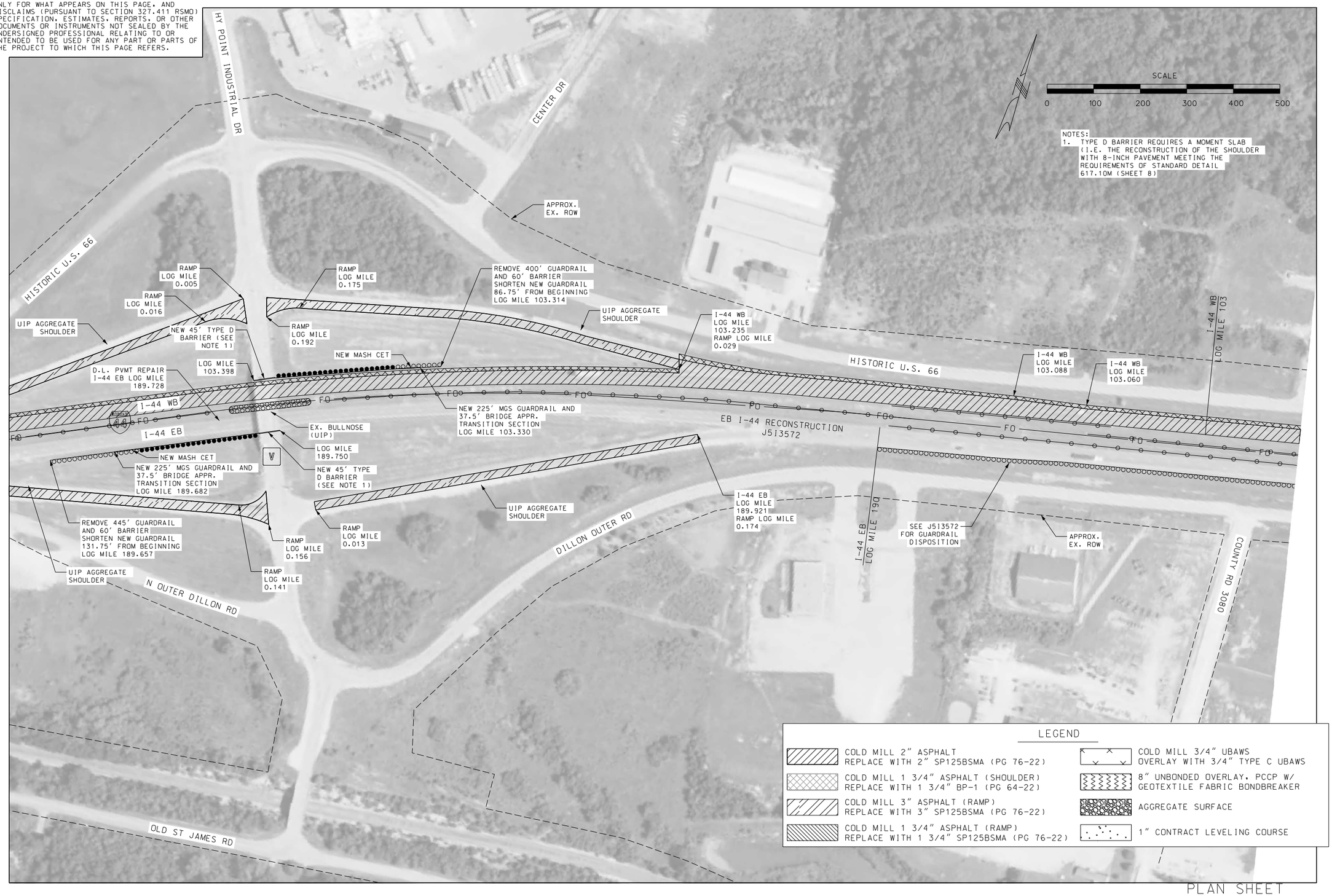

PLAN SHEET
SHEET 16 OF 31

STATE OF MISSOURI
JASON S. DOHRMANN
PE-2004017159
PROFESSIONAL ENGINEER

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

DATE PREPARED
9/23/2021

ROUTE	STATE
I-44	MO
DISTRICT	SHEET NO.
CD	19

COUNTY
PHELPS

JOB NO.
J5I3397

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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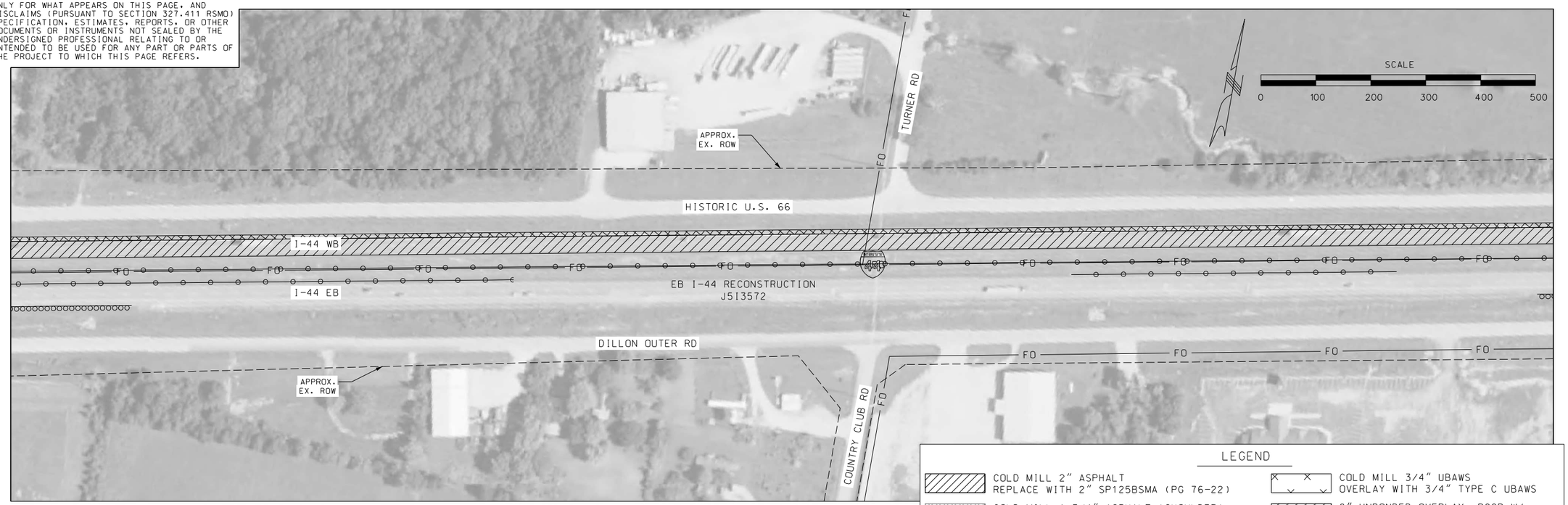

LEGEND

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- 8" UNBONDED OVERLAY, PCCP W/ GEOTEXTILE FABRIC BONDBREAKER
- AGGREGATE SURFACE
- 1" CONTRACT LEVELING COURSE

PLAN SHEET
SHEET 17 OF 31

JASON S. DOHRMANN
PE-2004017159
STATE OF MISSOURI
PROFESSIONAL ENGINEER

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

DATE PREPARED 9/23/2021

ROUTE	STATE
I-44	MO
DISTRICT	SHEET NO.
CD	20

COUNTY PHELPS

JOB NO. J5I3397

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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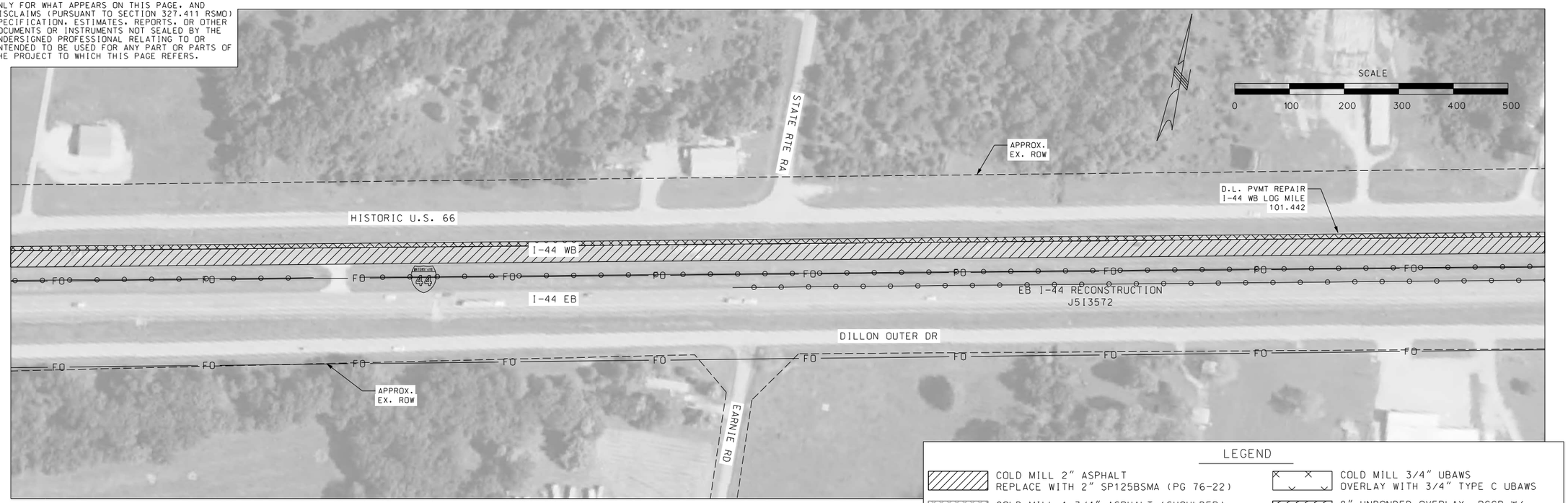

LEGEND

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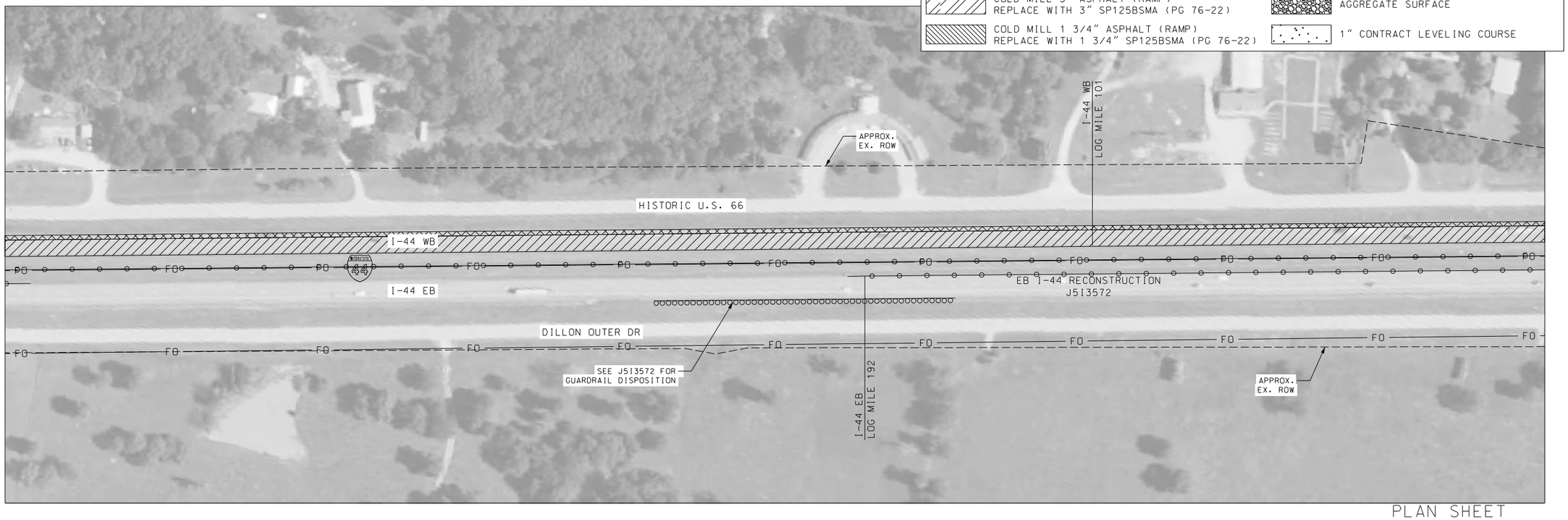

PLAN SHEET
SHEET 18 OF 31

STATE OF MISSOURI
JASON S. DOHRMANN
PE-2004017159
PROFESSIONAL ENGINEER

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

DATE PREPARED 9/23/2021

ROUTE	STATE

DISTRICT	SHEET NO.
I-44	MO

COUNTY CD 21

JOB NO. PHELPS

CONTRACT ID. J5I3397

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)

HR GREEN, INC.
16020 SWINGLEY RIDGE ROAD, SUITE 205
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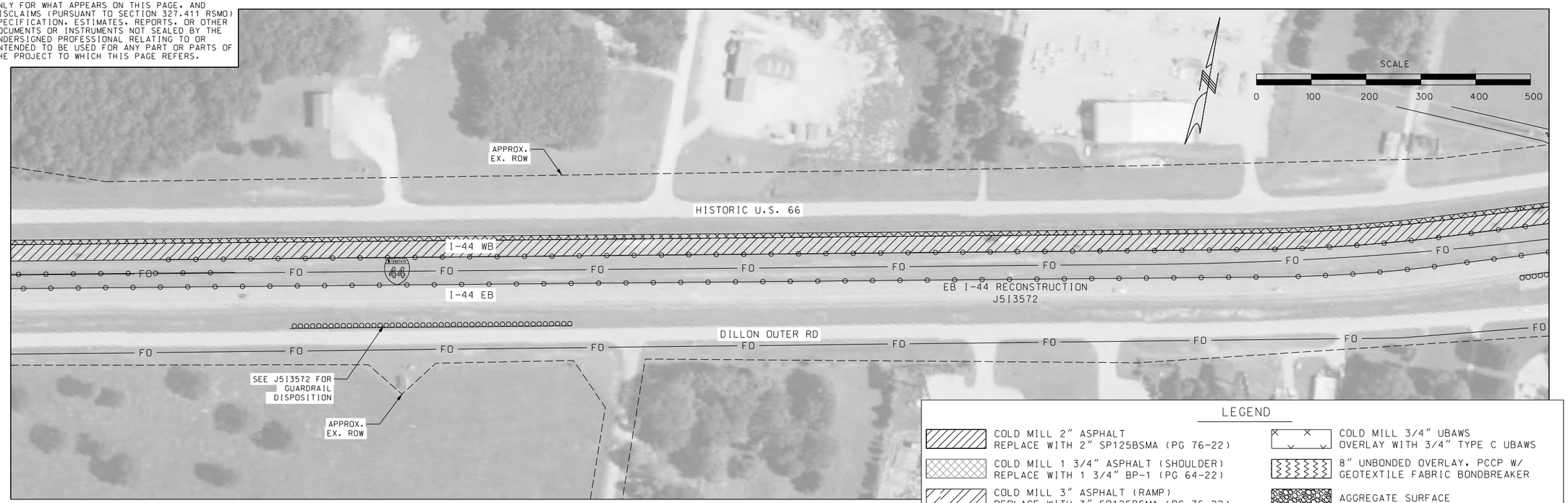

LEGEND

- COLD MILL 2" ASPHALT REPLACE WITH 2" SP125BSMA (PG 76-22)
- COLD MILL 1 3/4" ASPHALT (SHOULDER) REPLACE WITH 1 3/4" BP-1 (PG 64-22)
- COLD MILL 3" ASPHALT (RAMP) REPLACE WITH 3" SP125BSMA (PG 76-22)
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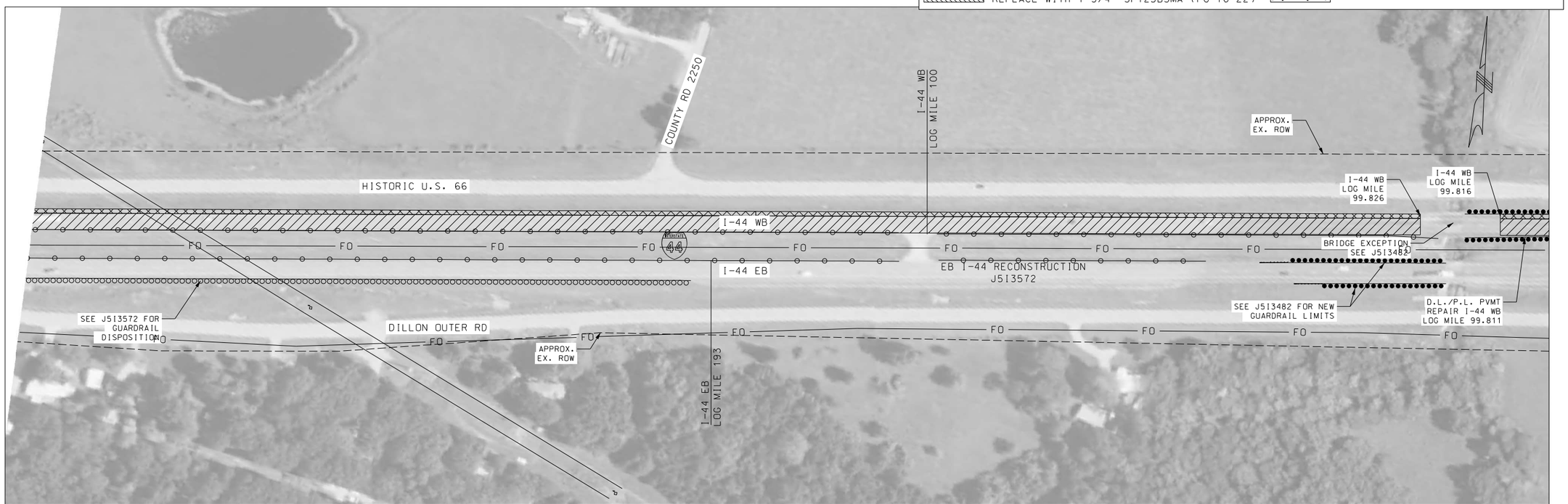
- COLD MILL 3/4" UBAWS OVERLAY WITH 3/4" TYPE C UBAWS
- 8" UNBONDED OVERLAY, PCCP W/ GEOTEXTILE FABRIC BONDBREAKER
- AGGREGATE SURFACE
- 1" CONTRACT LEVELING COURSE



PLAN SHEET
SHEET 19 OF 31

JASON S. DOHRMANN
PE-2004017159
STATE OF MISSOURI
PROFESSIONAL ENGINEER

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

DATE PREPARED
9/23/2021

ROUTE	STATE
I-44	MO
DISTRICT	SHEET NO.
CD	22

COUNTY
PHELPS

JOB NO.
J5I3397

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

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

DESCRIPTION	DATE

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

HR GREEN, INC.
16020 SWINGLEY RIDGE ROAD.
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ST. LOUIS, MISSOURI 63017
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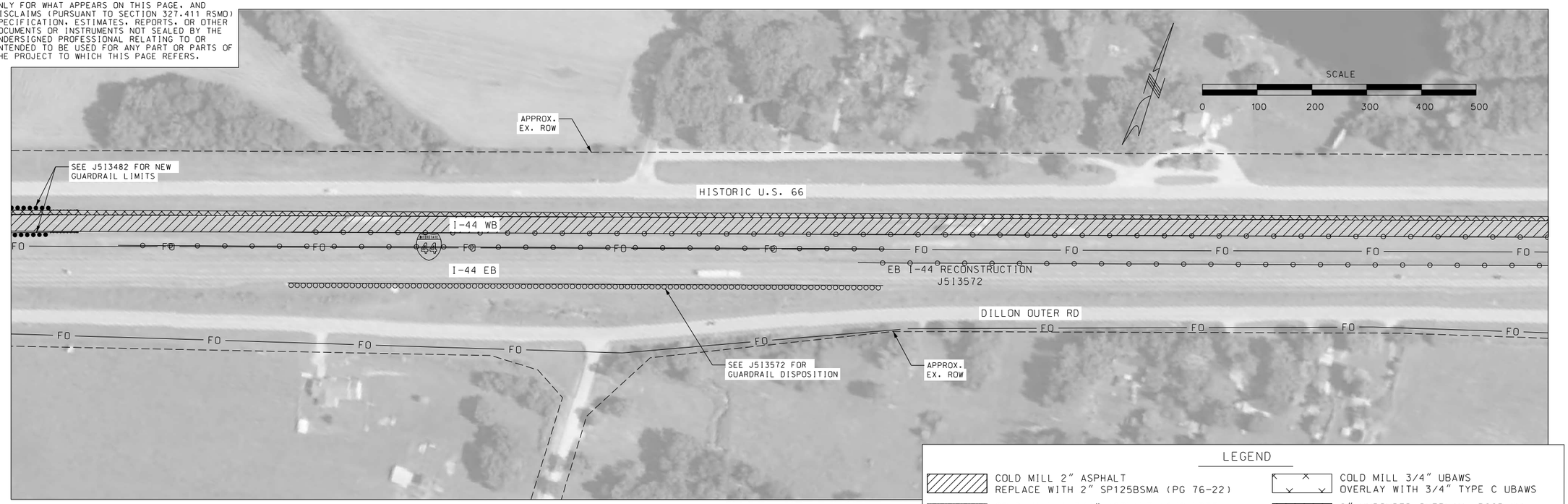

LEGEND

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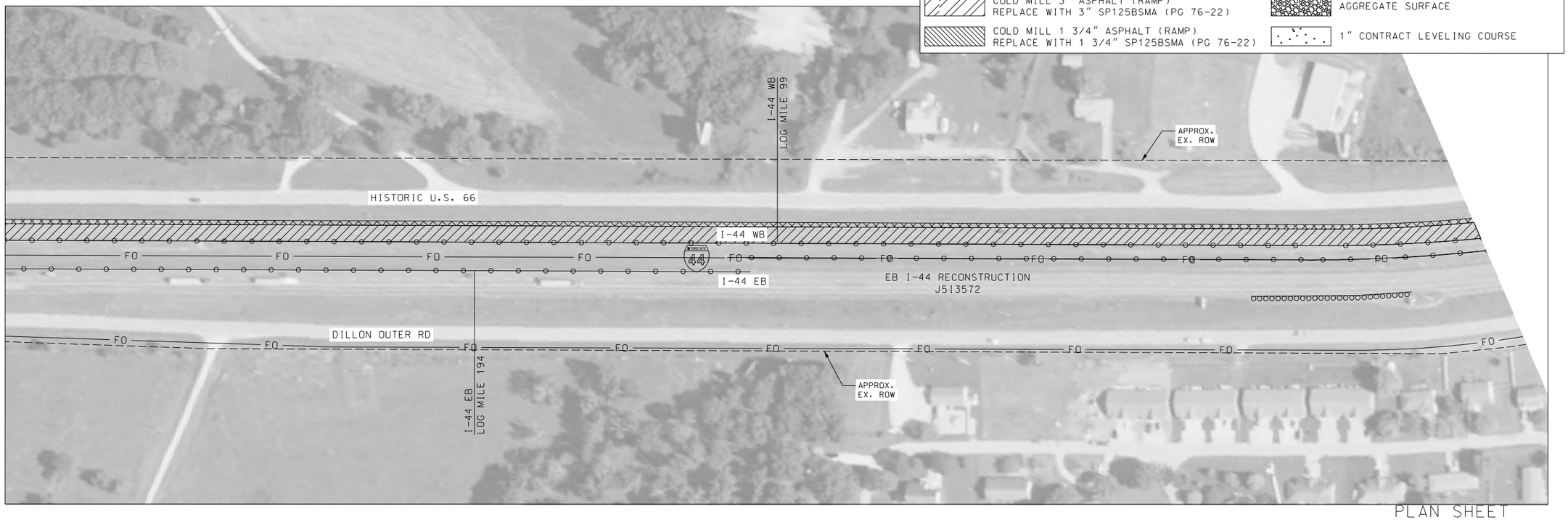
- AGGREGATE SURFACE
- 1" CONTRACT LEVELING COURSE



PLAN SHEET
SHEET 20 OF 31

JASON S. DOHRMANN PE-2004017159
STATE OF MISSOURI PROFESSIONAL ENGINEER

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

DATE PREPARED 9/23/2021

ROUTE	STATE
I-44	MO
DISTRICT	SHEET NO.
CD	23

COUNTY PHELPS
JOB NO. J513397
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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HR GREEN, INC.
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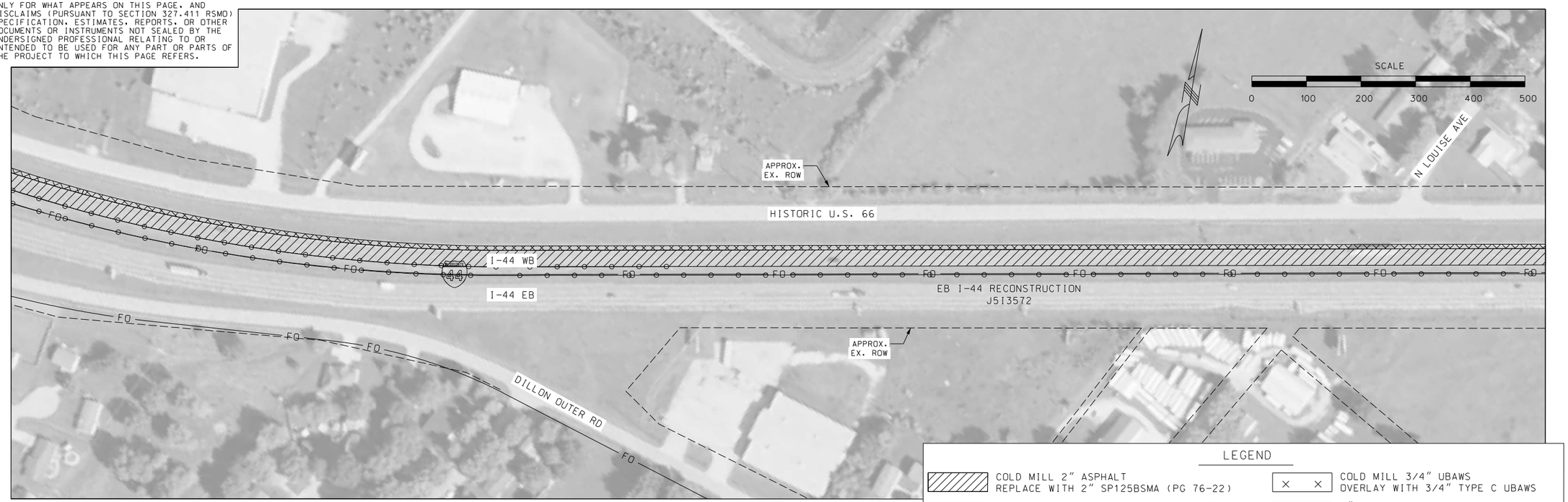

LEGEND

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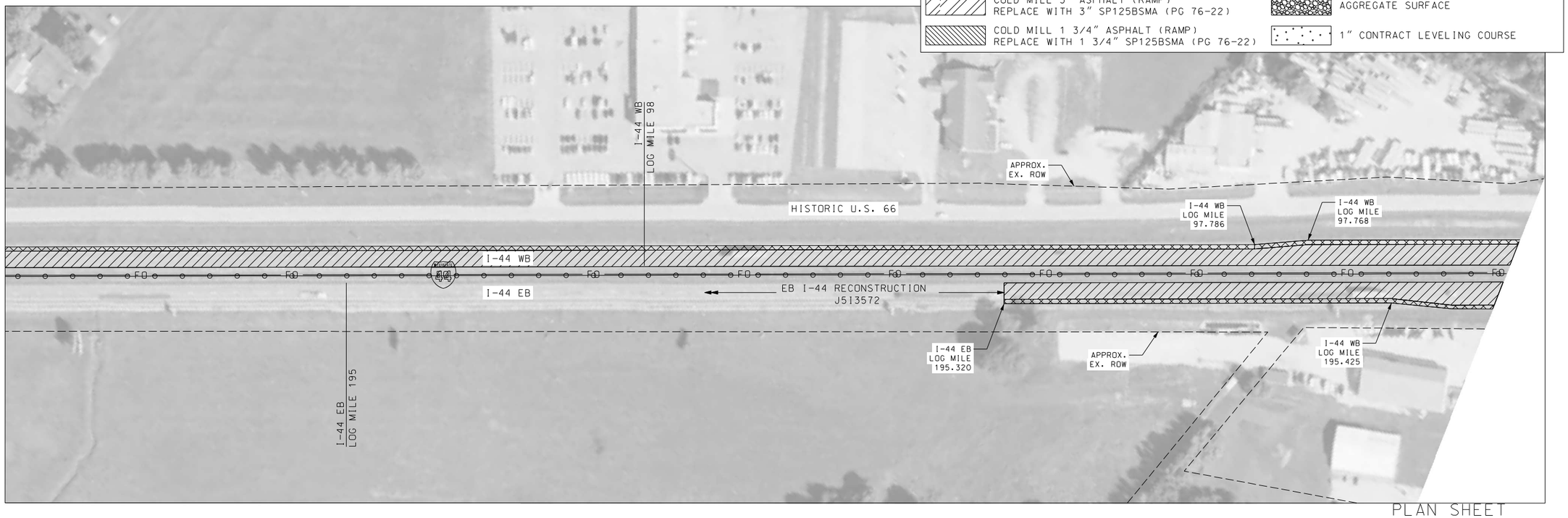
- AGGREGATE SURFACE
- 1" CONTRACT LEVELING COURSE



PLAN SHEET
SHEET 21 OF 31

STATE OF MISSOURI
JASON S. DOHRMANN
PE-2004017159
PROFESSIONAL ENGINEER

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

DATE PREPARED 9/23/2021

ROUTE	STATE
I-44	MO
DISTRICT	SHEET NO.
CD	24

COUNTY PHELPS

JOB NO. J513397

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

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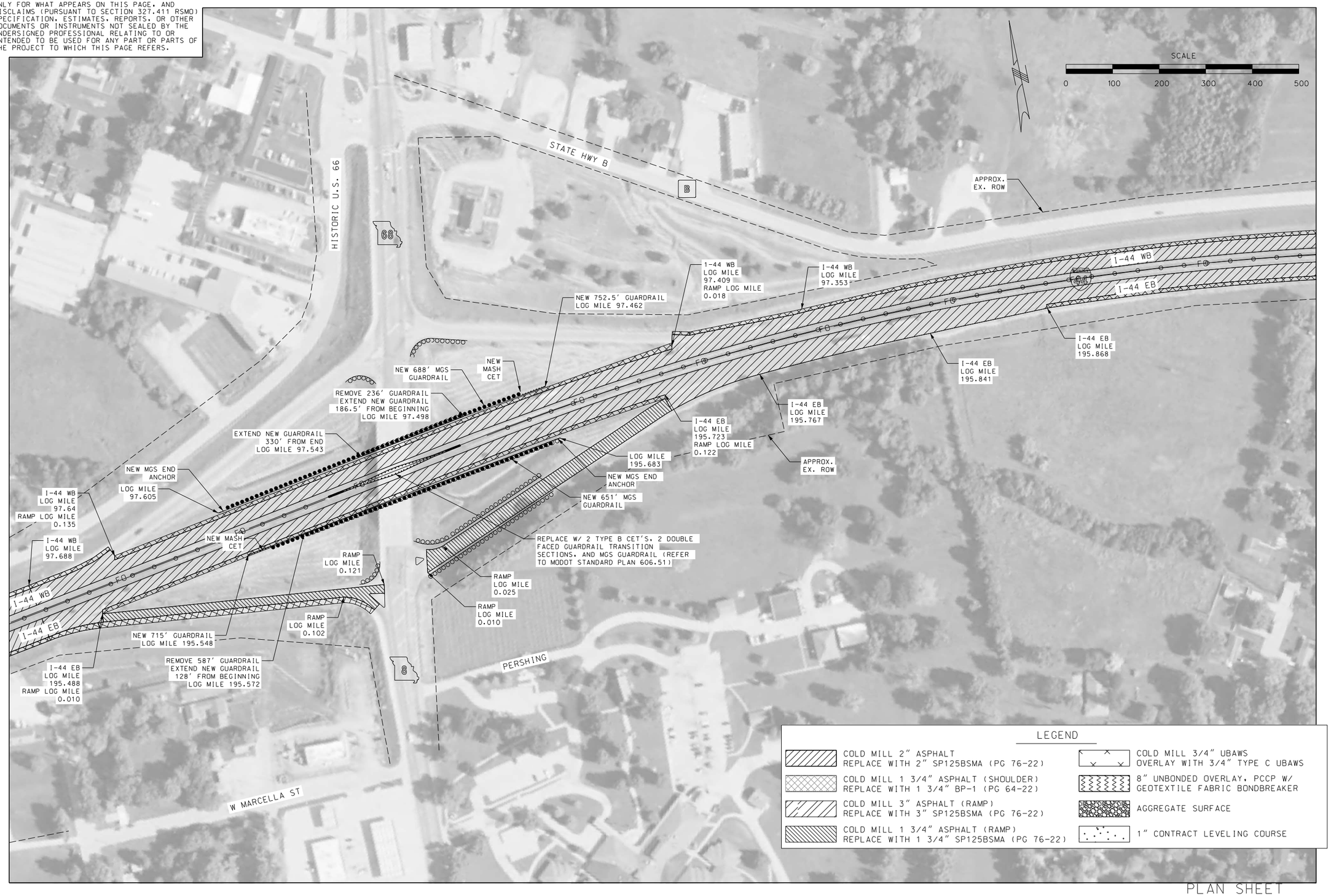

PLAN SHEET
SHEET 22 OF 31

STATE OF MISSOURI
JASON S. DOHRMANN
PE-2004017159
PROFESSIONAL ENGINEER

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

DATE PREPARED 9/23/2021

ROUTE	STATE
I-44	MO
DISTRICT	SHEET NO.
CD	25

COUNTY: PHELPS
JOB NO.: J5I3397
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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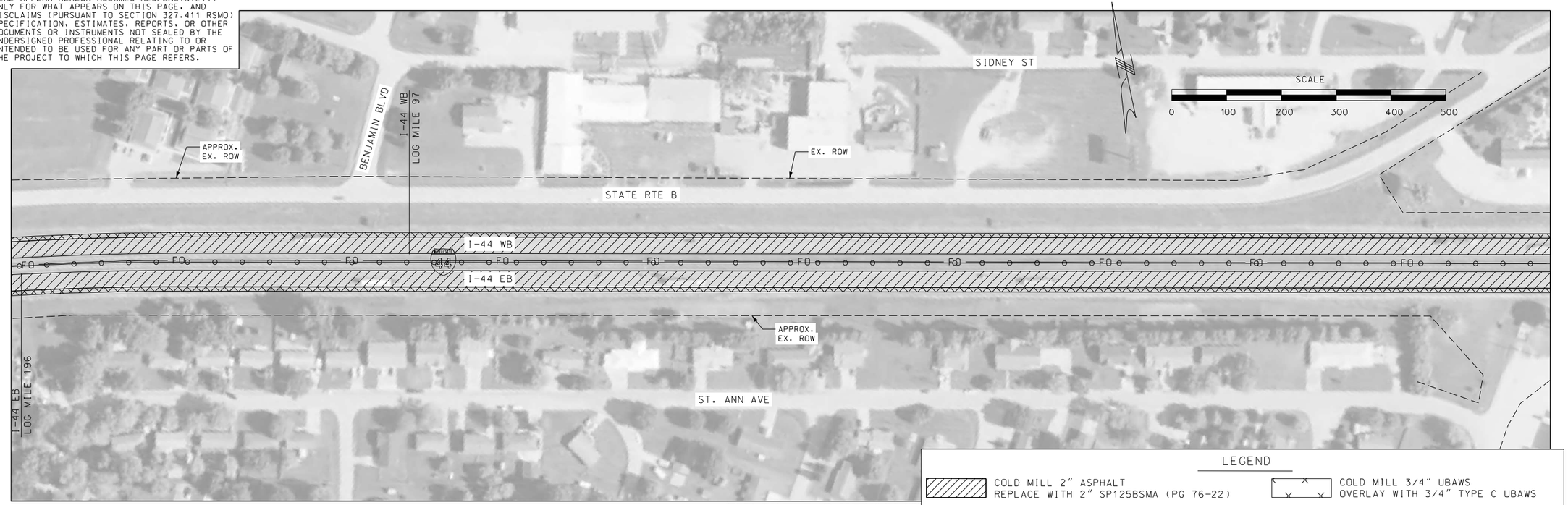

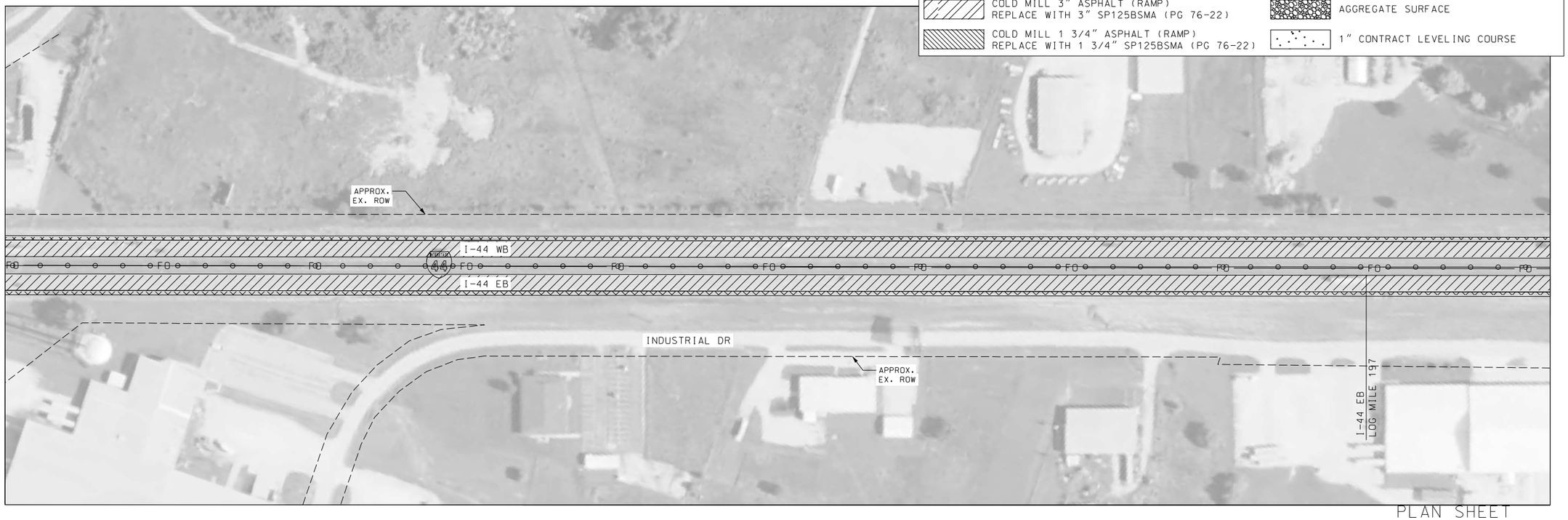

LEGEND

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- 8" UNBONDED OVERLAY, PCCP W/ GEOTEXTILE FABRIC BONDBREAKER
- AGGREGATE SURFACE
- 1" CONTRACT LEVELING COURSE

PLAN SHEET
SHEET 23 OF 31

STATE OF MISSOURI
JASON S. DOHRMANN
PE-2004017159
PROFESSIONAL ENGINEER

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

DATE PREPARED 9/23/2021

ROUTE	STATE
I-44	MO
DISTRICT	SHEET NO.
CD	26

COUNTY PHELPS
JOB NO. J5I3397
CONTRACT ID.
PROJECT NO.
BRIDGE NO.

DESCRIPTION	DATE

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JEFFERSON CITY, MO 65102
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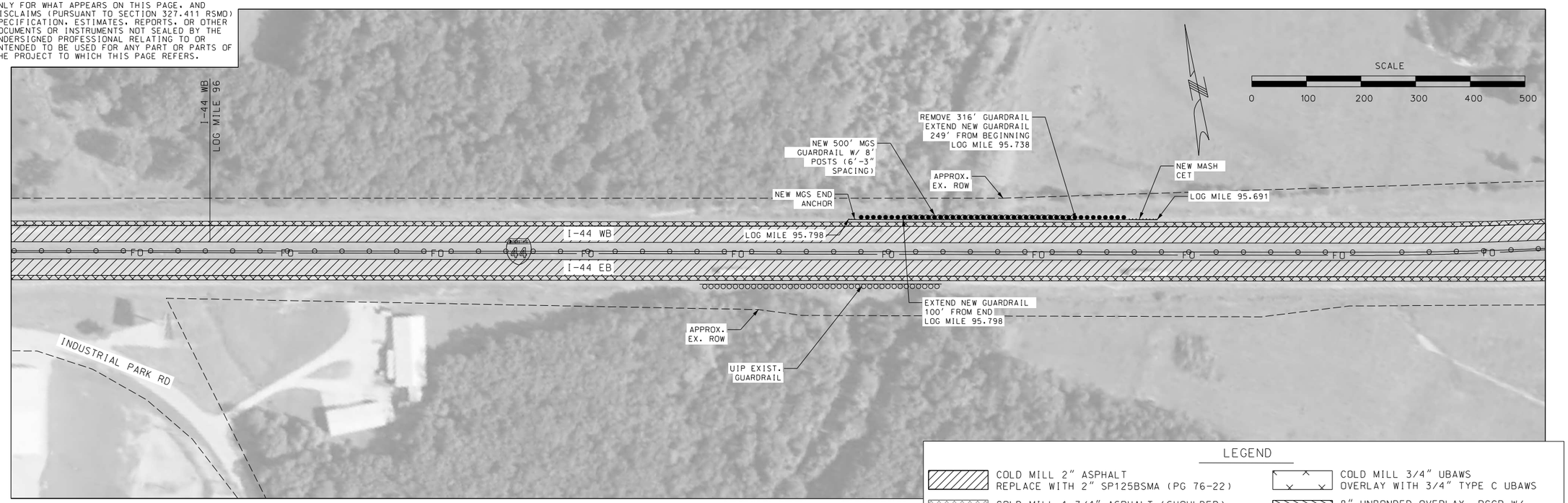

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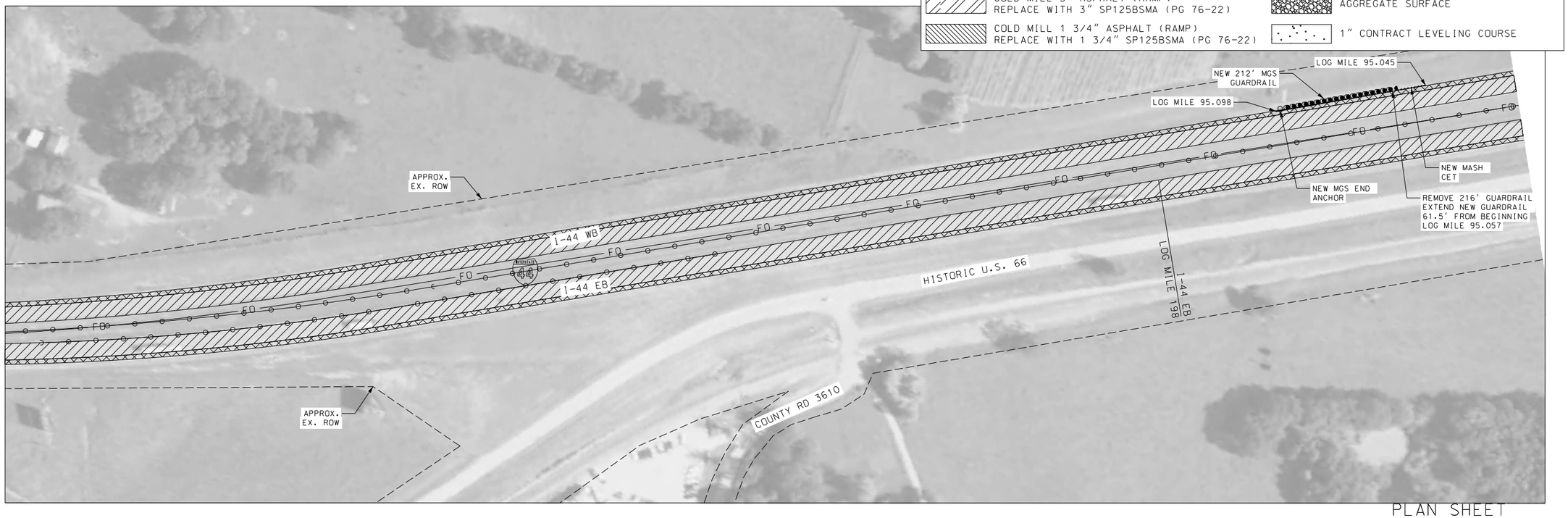

PLAN SHEET
SHEET 24 OF 31

JASON S. DOHRMANN
PE-2004017159
STATE OF MISSOURI
PROFESSIONAL ENGINEER

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

DATE PREPARED 9/23/2021
ROUTE I-44 | STATE MO
DISTRICT CD | SHEET NO. 27
COUNTY PHELPS
JOB NO. J5I3397
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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105 WEST CAPITOL
JEFFERSON CITY, MO 65102
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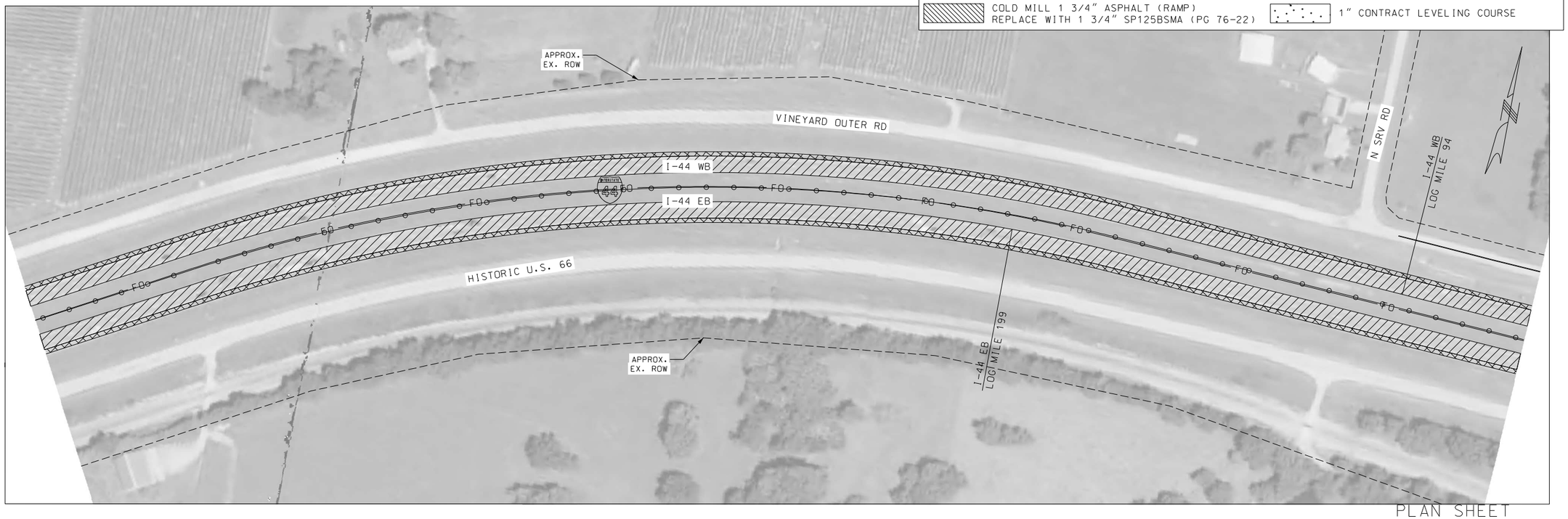
- 1" CONTRACT LEVELING COURSE



PLAN SHEET
SHEET 25 OF 31

STATE OF MISSOURI
JASON S. DOHRMANN
PE-2004017159
PROFESSIONAL ENGINEER

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

DATE PREPARED: 9/23/2021

ROUTE	STATE
I-44	MO

DISTRICT	SHEET NO.
CD	28

COUNTY: PHELPS

JOB NO.: J5I3397

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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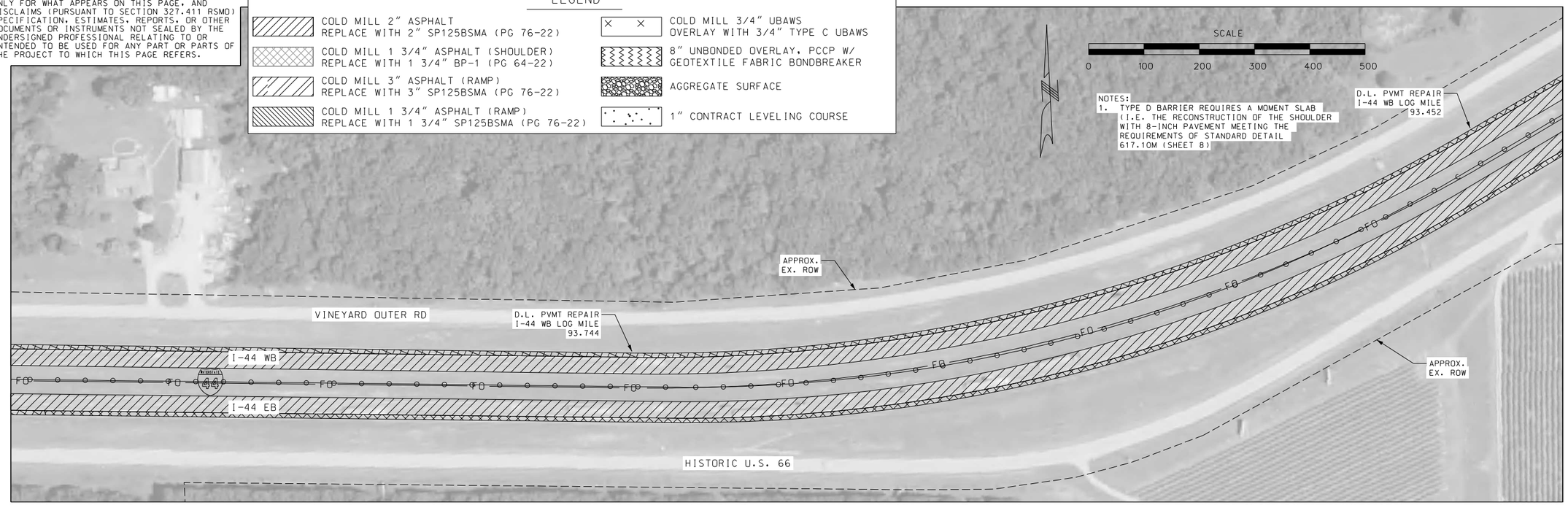

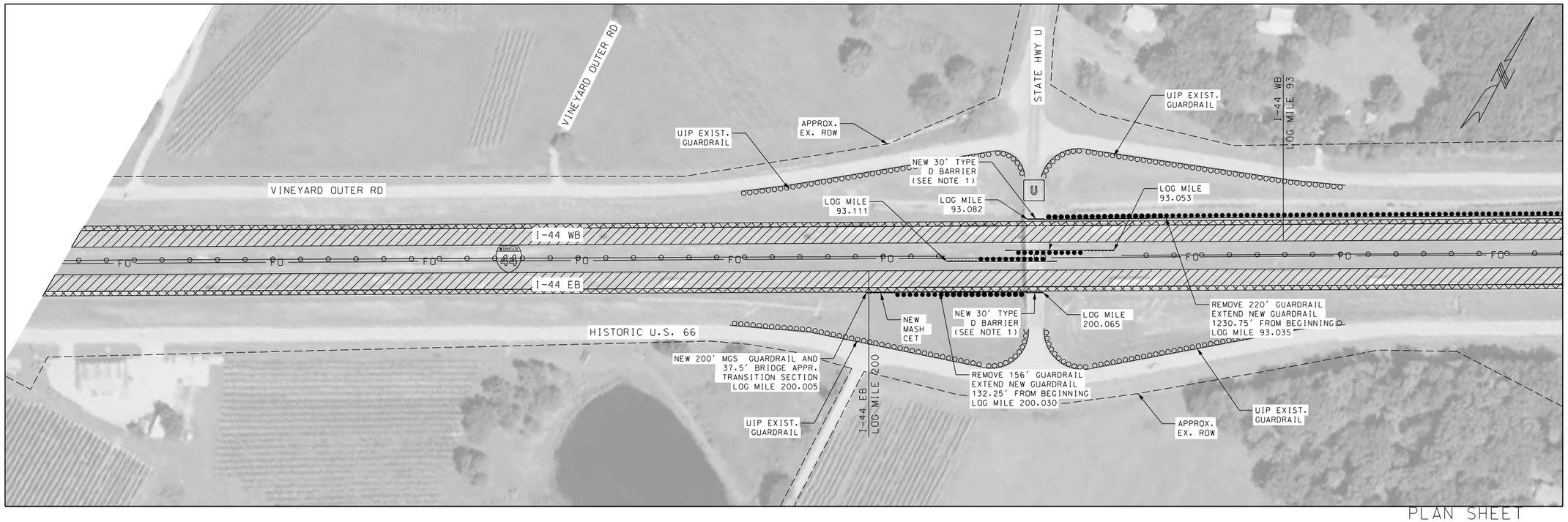

PLAN SHEET
SHEET 26 OF 31

JASON S. DOHRMANN
PE-2004017159
STATE OF MISSOURI
PROFESSIONAL ENGINEER

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

DATE PREPARED	
9/23/2021	
ROUTE	STATE
I-44	MO
DISTRICT	SHEET NO.
CD	29
COUNTY	
PHELPS	
JOB NO.	
J5I3397	
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	

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DESCRIPTION	DATE

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105 WEST CAPITOL
JEFFERSON CITY, MO 65102
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HR GREEN, INC.
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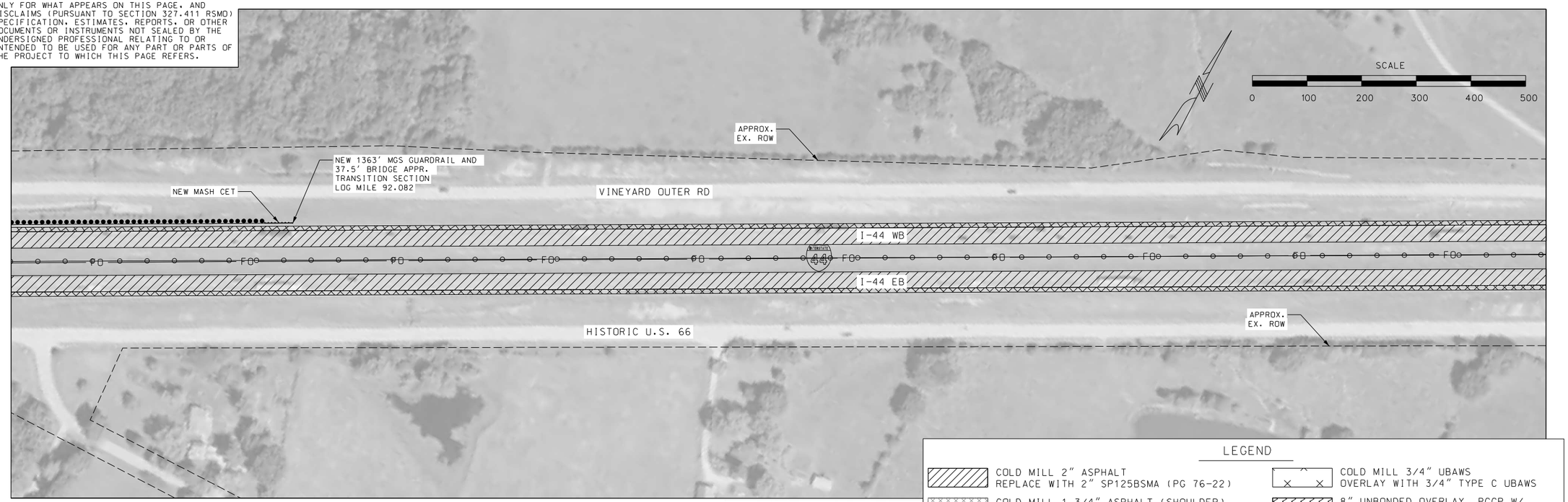

LEGEND

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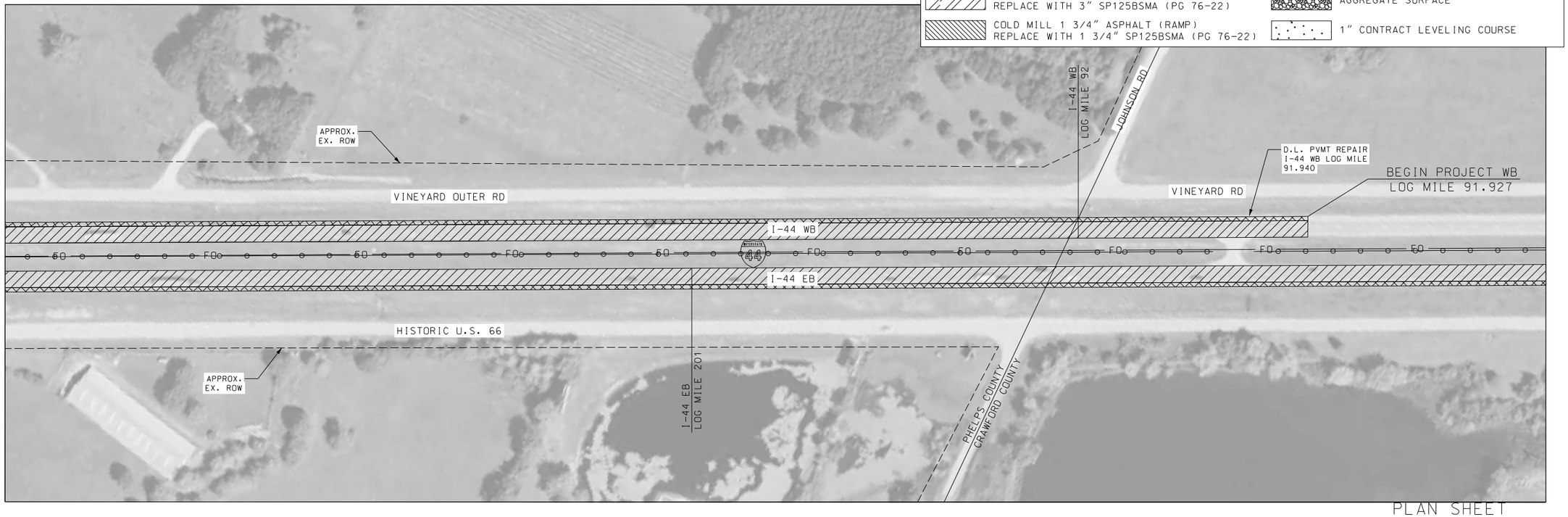

PLAN SHEET
SHEET 27 OF 31

STATE OF MISSOURI
JASON S. DOHRMANN
PE-2004017159
PROFESSIONAL ENGINEER

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

DATE PREPARED 9/23/2021

ROUTE	STATE
I-44	MO
DISTRICT	SHEET NO.
CD	30

COUNTY PHELPS
JOB NO. J5I3397
CONTRACT ID.
PROJECT NO.
BRIDGE NO.

DESCRIPTION	DATE

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CORPORATE LICENSE #2002006608

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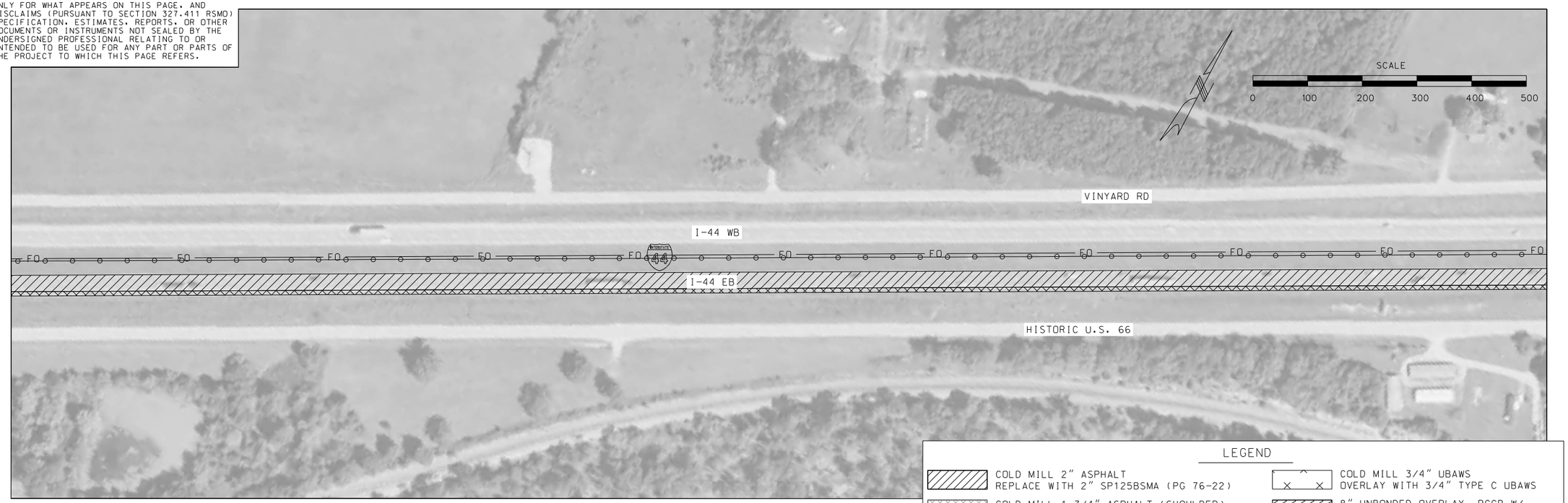

LEGEND

- COLD MILL 2" ASPHALT REPLACE WITH 2" SP125BSMA (PG 76-22)
- COLD MILL 1 3/4" ASPHALT (SHOULDER) REPLACE WITH 1 3/4" BP-1 (PG 64-22)
- COLD MILL 3" ASPHALT (RAMP) REPLACE WITH 3" SP125BSMA (PG 76-22)
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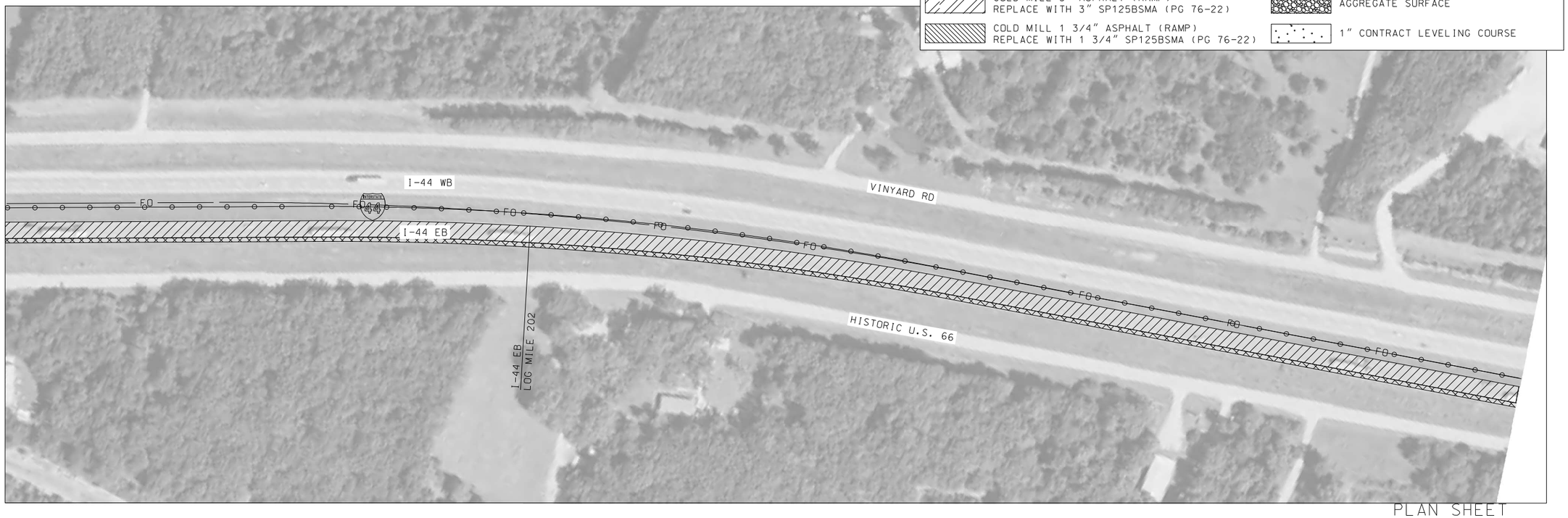
- COLD MILL 3/4" UBAWS OVERLAY WITH 3/4" TYPE C UBAWS
- 8" UNBONDED OVERLAY, PCCP W/ GEOTEXTILE FABRIC BONDBREAKER
- AGGREGATE SURFACE
- 1" CONTRACT LEVELING COURSE



PLAN SHEET
SHEET 28 OF 31

STATE OF MISSOURI
JASON S. DOHRMANN
PE-2004017159
PROFESSIONAL ENGINEER

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

DATE PREPARED	
9/23/2021	
ROUTE	STATE
I-44	MO
DISTRICT	SHEET NO.
CD	31
COUNTY	
CRAWFORD	
JOB NO.	
J5I3397	
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	

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

DESCRIPTION	DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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

HR GREEN, INC.
16020 SWINGLEY RIDGE ROAD.
SUITE 205
ST. LOUIS, MISSOURI 63017
PHONE: (636) 519.0990
CORPORATE LICENSE #2002006608

HRGreen®

\\hrgreen.com\HRG\Data\2021\210549\CAD\Data\031_PL_28_J5I3397_I100.dgn 8:34:46 AM 9/23/2021

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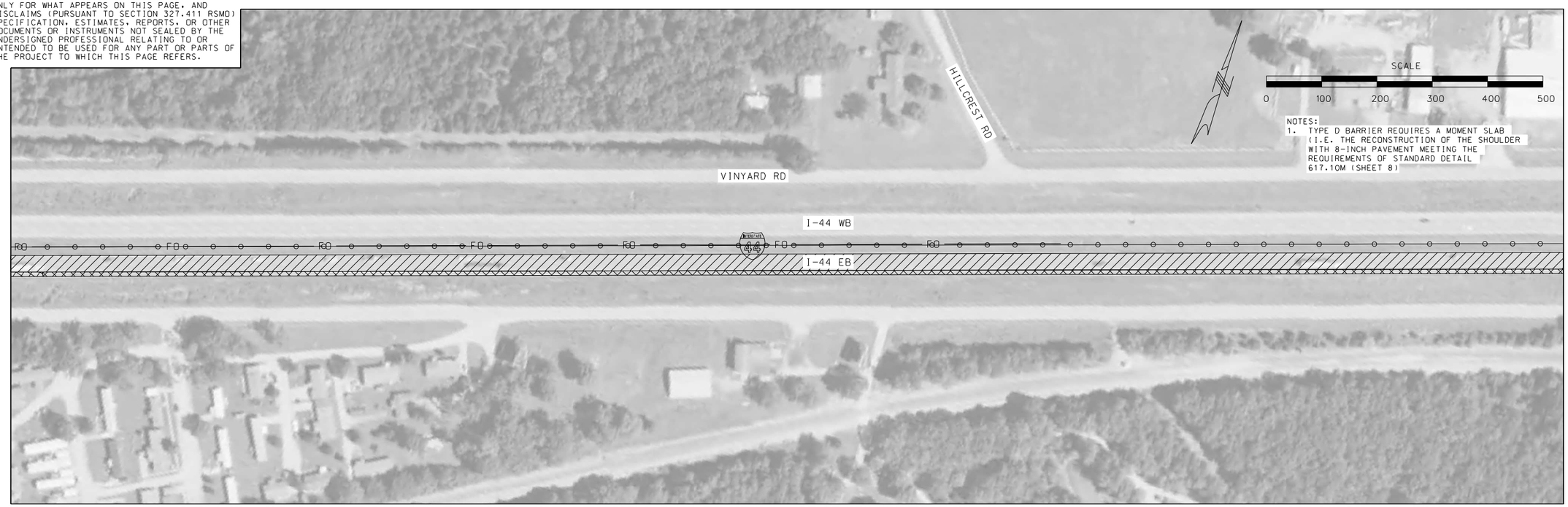

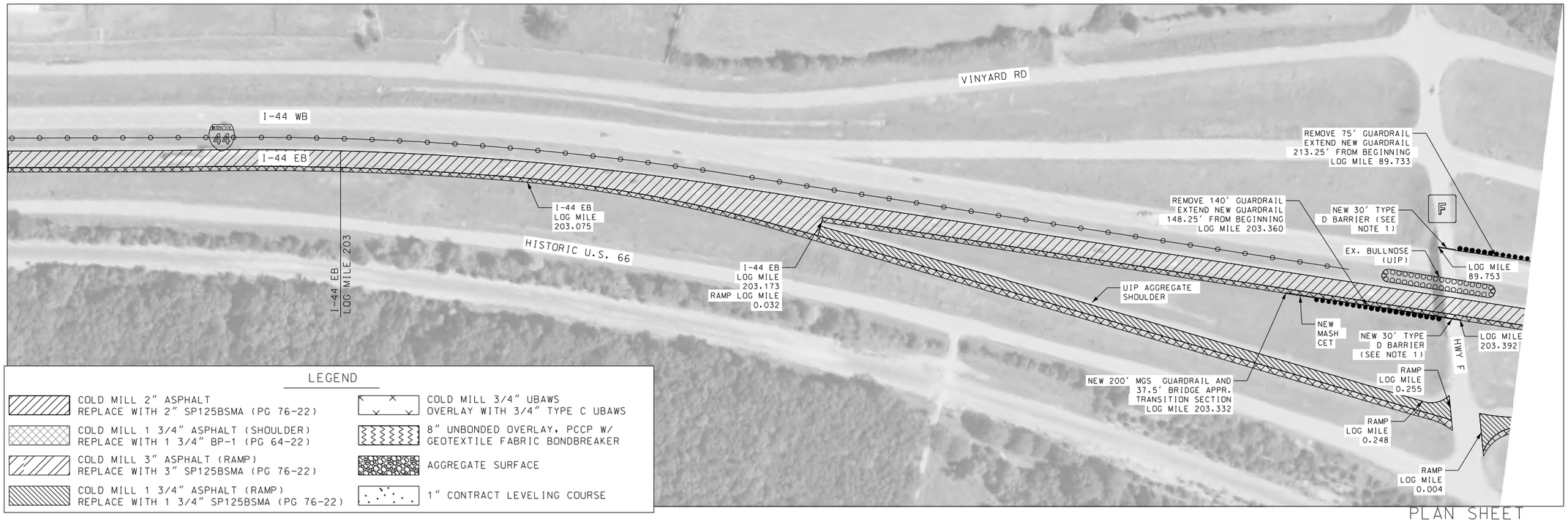

PLAN SHEET
SHEET 29 OF 31

STATE OF MISSOURI
JASON S. DOHRMANN
PE-2004017159
PROFESSIONAL ENGINEER

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

DATE PREPARED
9/23/2021

ROUTE	STATE
I-44	MO
DISTRICT	SHEET NO.
CD	32

COUNTY
CRAWFORD

JOB NO.
J5I3397

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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HR GREEN, INC.
16020 SWINGLEY RIDGE ROAD,
SUITE 205
ST. LOUIS, MISSOURI 63017
PHONE: (636) 519.0990
CORPORATE LICENSE #2002006608

HRGreen

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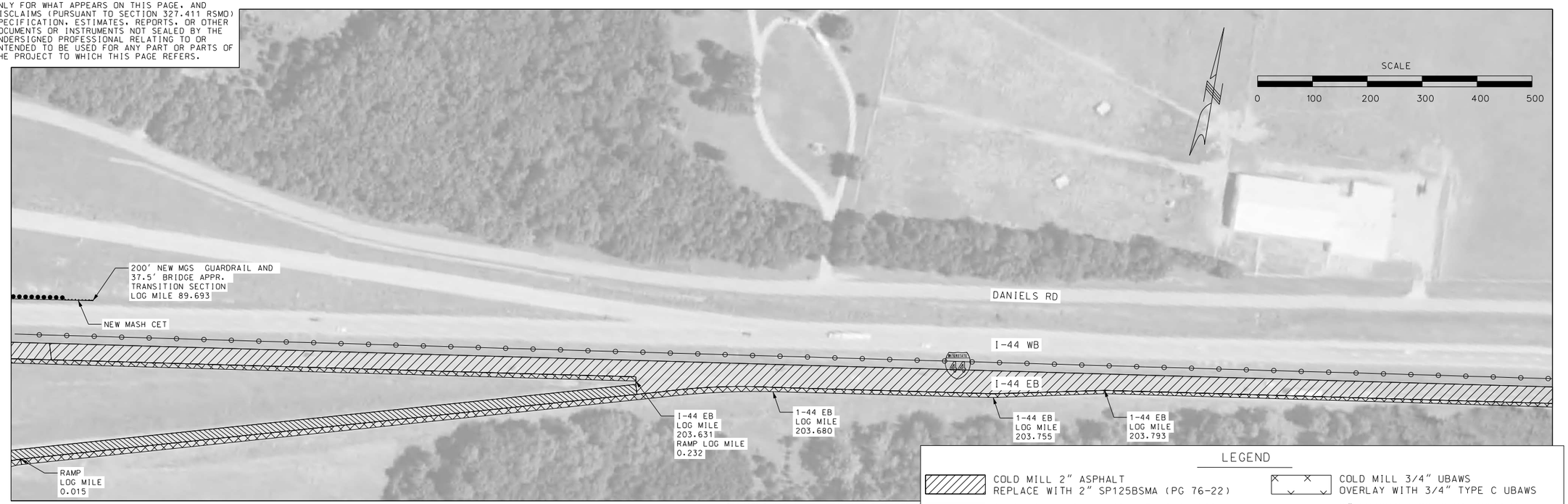

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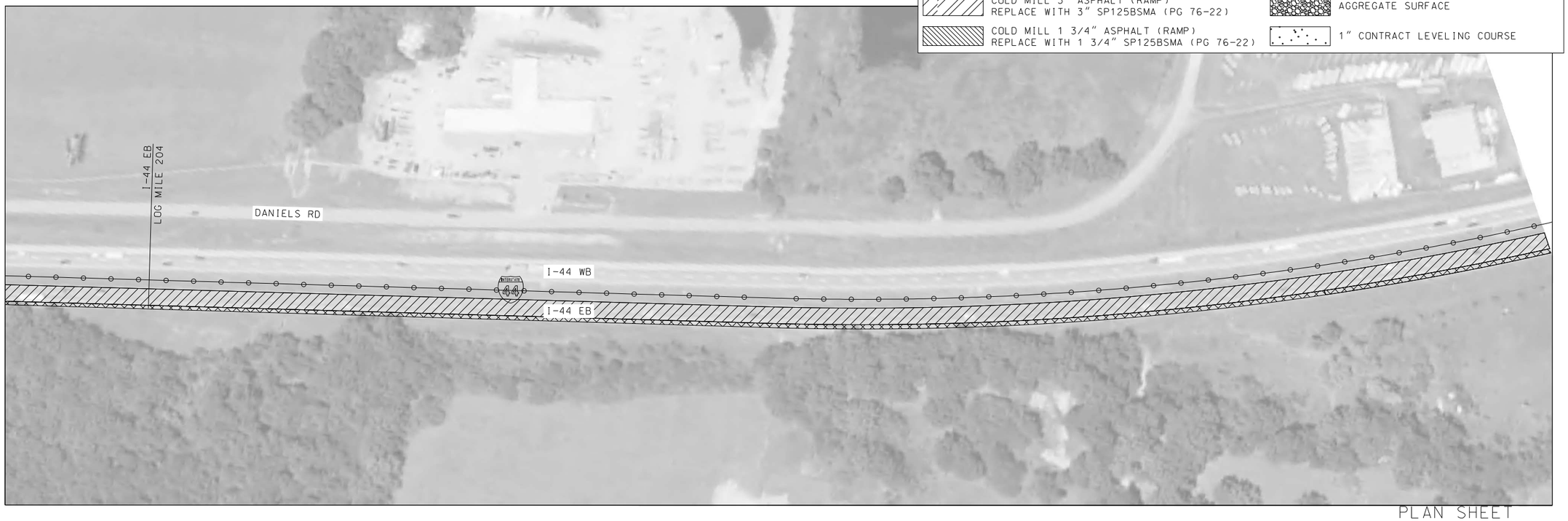
- AGGREGATE SURFACE
- 1" CONTRACT LEVELING COURSE



PLAN SHEET
SHEET 30 OF 31

JASON S. DOHRMANN
PE-2004017159
STATE OF MISSOURI
PROFESSIONAL ENGINEER

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

DATE PREPARED: 9/23/2021
ROUTE: I-44 | STATE: MO
DISTRICT: CD | SHEET NO.: 33
COUNTY: CRAWFORD
JOB NO.: J5I3397
CONTRACT ID.:
PROJECT NO.:
BRIDGE NO.:

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

DESCRIPTION	DATE

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

HR GREEN, INC.
16020 SWINGLEY RIDGE ROAD,
SUITE 205
ST. LOUIS, MISSOURI 63017
PHONE: (636) 519.0990
CORPORATE LICENSE #2002006608
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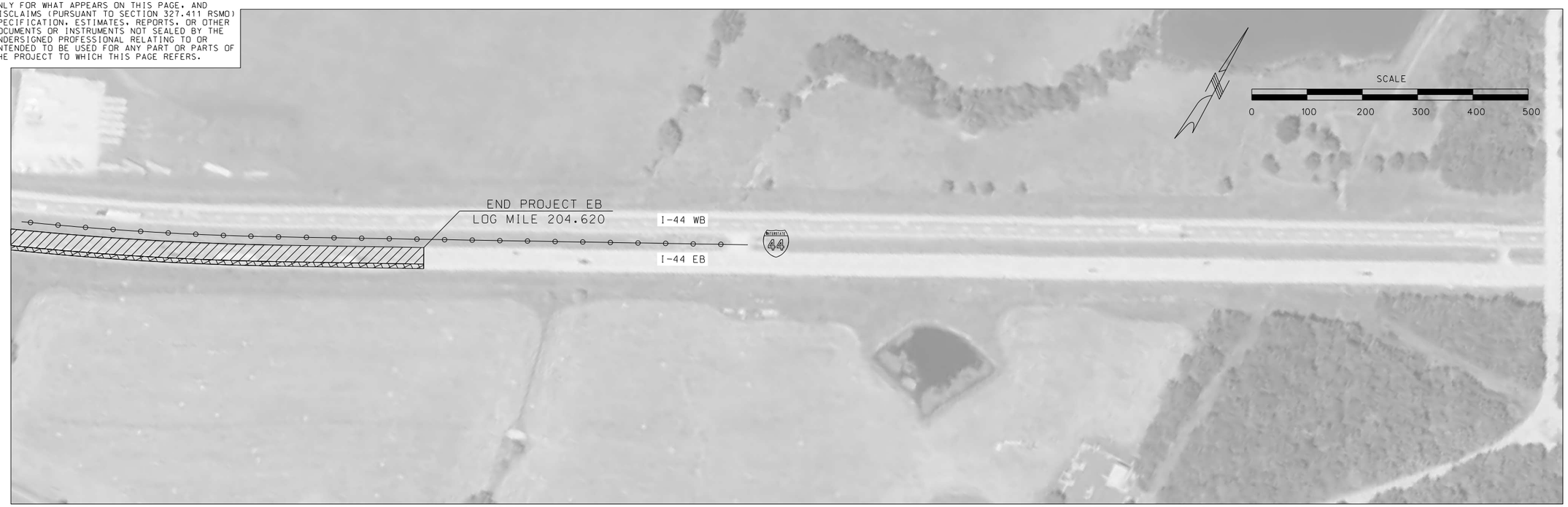

LEGEND

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- 1" CONTRACT LEVELING COURSE

PLAN SHEET
SHEET 31 OF 31

STATE OF MISSOURI
JASON S. DOHRMANN
PE-2004017159
PROFESSIONAL ENGINEER

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

DATE PREPARED
9/23/2021

ROUTE	STATE
I-44	MO
DISTRICT	SHEET NO.
CD	34

COUNTY
CRAWFORD

JOB NO.
J5I3397

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
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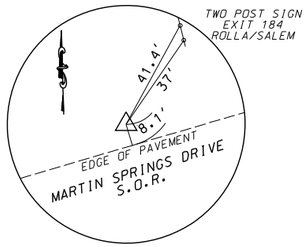
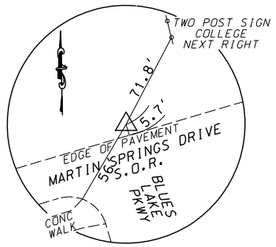
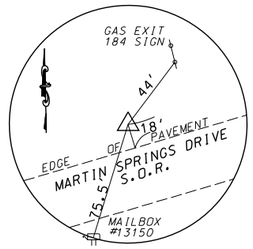


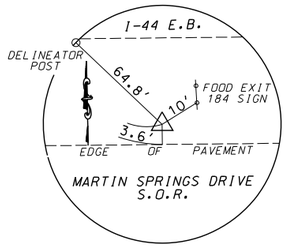
CONTROL POINT NO. 1
IRON ROD/CAP
N: 768177.498
E: 1842718.517
ELEV: 1003.71
STA 91+75.41, 8.0' LT
LOCATION B



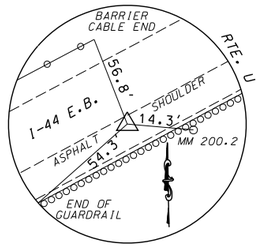
CONTROL POINT NO. 2
IRON ROD/CAP
N: 767862.149
E: 1841469.339
ELEV: 964.07
STA 78+86.88, 3.8' RT
LOCATION B



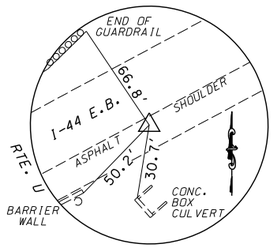
CONTROL POINT NO. 3
IRON ROD W/CAP
N: 727661.376
E: 1840510.274
ELEV: 929.58
STA 69+05.84, 17.9' LT
LOCATION B



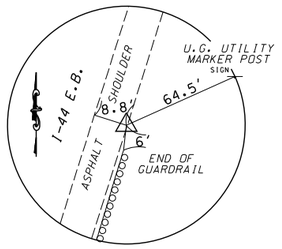
CONTROL POINT NO. 4
IRON ROD W/CAP
N: 767614.404
E: 1839733.277
ELEV: 902.47
STA 61+24.81, 4.6' LT
LOCATION B



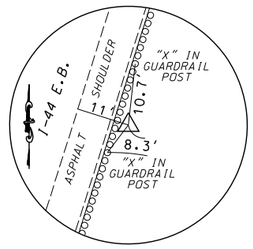
CONTROL POINT NO. 5
MAG NAIL
N: 799763.612
E: 1915873.250
ELEV: 1062.45
STA 52+88.23, 61.3' RT
LOCATION D



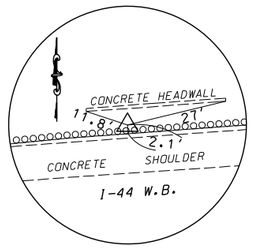
CONTROL POINT NO. 6
MAG NAIL
N: 799848.712
E: 1916039.188
ELEV: 1057.19
STA 54+74.71, 63.5' RT
LOCATION D



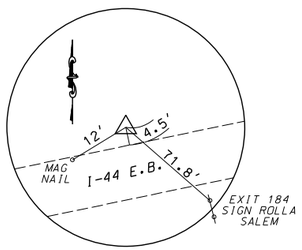
CONTROL POINT NO. 7
MAG NAIL
N: 770936.945
E: 1845278.811
ELEV: 1127.90
STA 104+44.03, 0.5' RT
LOCATION C



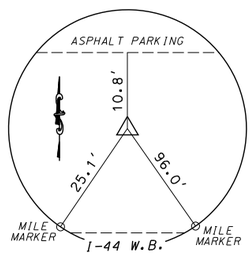
CONTROL POINT NO. 8
60D NAIL
N: 770769.916
E: 1845235.318
ELEV: 1122.82
STA 102+71.15, 3.0' RT
LOCATION C



CONTROL POINT NO. 9
60D NAIL
N: 767690.454
E: 1838138.716
ELEV: 865.58
BOX CULVERT



CONTROL POINT NO. 10
60D NAIL
N: 767529.357
E: 1838037.085
ELEV: 863.90
BOX CULVERT



CONTROL POINT NO. 74
60D NAIL
N: 769536.9950
E: 1810632.3580
ELEV: 881.83
STA 151+53.65, 23.1' LT
LOCATION A

PROJECT BENCHMARK: PH-02 PID: HC1142 (NAVD88)

BM ELEVATION = 957.34
STANDARD MO DNR GRS DISK STAMPED PH-02 1990. THE STATION IS LOCATED ON THE NORTH SIDE OF THE OLD WIRE OUTER ROAD (NORTH) TO I-44 JUST EAST OF COUNTY ROAD # 8110 IN THE SW 1/4 OF SECTION 10, T37N, R8W AT THE WESTERN CITY LIMITS OF ROLLA, MO. THE STATION IS 49 FEET NORTH OF THE CENTERLINE OF THE OLD WIRE OUTER ROAD; 71.5 FEET EAST OF THE CENTERLINE OF COUNTY ROAD # 8110; 81.7 FEET SOUTHWEST OF A RIGHT-OF-WAY MARKER; 106 FEET SOUTHEAST OF THE STATE HIGHWAY DEPARTMENT RIGHT-OF-WAY MARKER; 5.6 FEET SOUTHWEST OF A CARSONITE WITNESS POST.

TBM "1" ELEVATION = 964.74

CUT "SQUARE" ON THE SOUTH LEG OF CONCRETE PAD FOR SIGN (COLLEGE NEXT RIGHT).

TBM "2" ELEVATION = 903.47

CUT "SQUARE" ON THE SOUTH LEG OF A CONCRETE PAD FOR SIGN (EXIT 184 FOOD).

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REFERENCE POINTS
SHEET 1 OF 1

STATE OF MISSOURI
PAUL JOSEPH KRONLAGE
NUMBER E/N 023328
REGISTERED PROFESSIONAL ENGINEER
THIS SHEET WAS SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED
9/8/2021

ROUTE	STATE
I-44	MO
DISTRICT	SHEET NO.
CD	35

COUNTY
PHELPS-CRAWFORD

JOB NO.
J5I3397

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

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REV.	DESCRIPTION	DATE

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

STATE PLANE COORDINATES (GRID)

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ALL PROJECT COORDINATES ARE THE MISSOURI STATE PLANE (SPC) SYSTEM OF 1983.

PROJECT COORDINATE INFORMATION

COORDINATE SYSTEM	MO. SPC CENTRAL ZONE
HORIZONTAL DATUM	NAD 83
VERTICAL DATUM	NAVD 88
GEOID MODEL	18B
ELEVATIONS DETERMINED BY	ELEVATIONS WERE ESTABLISHED USING GPS AND A TRIMBLE R8S ROVER AND BASED ON THE MO HIGHWAY AND TRANSPORTATION COMMISSION GLOBAL NAVIGATION SATELLITE RT NETWORK FOR CONTINUOUS OPERATING STATIONS
PROJECT PROJECTION FACTOR	1.00006142

REFERENCE CONTROL INFORMATION

COORDINATE SYSTEM	MISSOURI STATE PLANE
CONTROL STATION	N/A
DESIGNATION	PH 02
CORS_ID	N/A
PID	HC1142
LATITUDE	37 56 27.85022
LONGITUDE	91 48 11.11153
NORTHING (M)	234120.687
EASTING (M)	561256.864
ZONE	CENTRAL
PROJECT AVERAGE GRID FACTOR	0.99993858

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 #1
N 768224.6795 X 0.99993858 = N 768177.198
E 1842831.697 X 0.99993858 = E 1842718.517

LINEAR UNIT CONVERSION

1 METER = 3.280833333 US SURVEY FEET (USFT)

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	GPK POINT ID
PROJECT CONTROL POINTS								
	91+75.41	LOC B	-8.0	768177.49800	1842718.51700	1,003.71		1
	78+86.88	LOC B	3.8	767862.14900	1841469.33900	964.07		2
	69+05.84	LOC B	-17.9	727661.37600	1840510.27400	929.58		3
	61+24.81	LOC B	-4.6	767614.40400	1839733.27700	902.47		4
	52+88.23	LOC D	61.3	799763.61200	1915873.25000	1,062.45		5
	54+74.71	LOC D	63.5	799848.71200	1916039.18800	1,057.19		6
	104+44.03	LOC C	0.5	770936.94500	1845278.81100	1,127.90		7
	102+71.15	LOC C	3.0	770769.91600	1845235.31800	1,122.82		8
	151+53.65	LOC A	-23.1	769536.99500	1810632.35800	881.83		74
ALIGNMENTS								
℄ LOCATION B (EXMARTINSPRGS)								
	50+00.00	℄	0	767532.82491	1838613.24905		PC	
	52+95.58	℄	-13.71	767593.13559	1838902.61441		PI	
	55+89.47	℄	0	767599.07766	1839198.13832		PT	
	66+38.20	℄	0	767620.15999	1840246.65118		PC	
	68+50.86	℄	11.43	767624.43515	1840459.27302		PI	
	70+61.89	℄	0	767673.91747	1840666.10103		PT	
	89+54.82	℄	0	768114.35930	1842507.07573		PC	
	91+44.70	℄	2.94	768158.53906	1842691.73988		PI	
	93+34.45	℄	0	768214.06234	1842873.31593		PT	
	98+94.98	℄	0	768377.97099	1843409.34130		POT	
℄ LOCATION D (EXI44atU)								
	50+00.00	℄	0	799683.25284	1915589.74256		POT	
	58+27.37	℄	0	800069.48950	1916321.42451		POT	
℄ LOCATION C (ExI44at LP)								
	100+00.00	℄	0	770512.13326	1845150.89939		POT	
	102+47.04	℄	0	770747.49605	1845225.96835		PI	
	104+18.55	℄	0	770912.80391	1845271.67249		PI	
	106+10.72	℄	0	771095.96911	1845329.80286		POT	
℄ LOCATION A (EXI44OUTCROP)								
	150+00.00	℄	0	769515.40498	1810378.56861		POT	
	155+00.00	℄	0	769511.18040	1811078.55586		POT	

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED 9/8/2021
ROUTE I-44 | STATE MO
DISTRICT CD | SHEET NO. 36
COUNTY PHELPS-CRAWFORD
JOB NO. J513397
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

COORDINATE POINTS
SHEET 1 OF 1

REV.

Z:\21040 I-44 HRGREEN\DGN\Design\Final\Plotsheets\036_CP_01_J513397_I1.dgn 4:46:21 PM 9/8/2021

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.
SEE CROSS SECTIONS FOR LOCATION A FOR WORK IN THIS AREA.

DISCLAIMER
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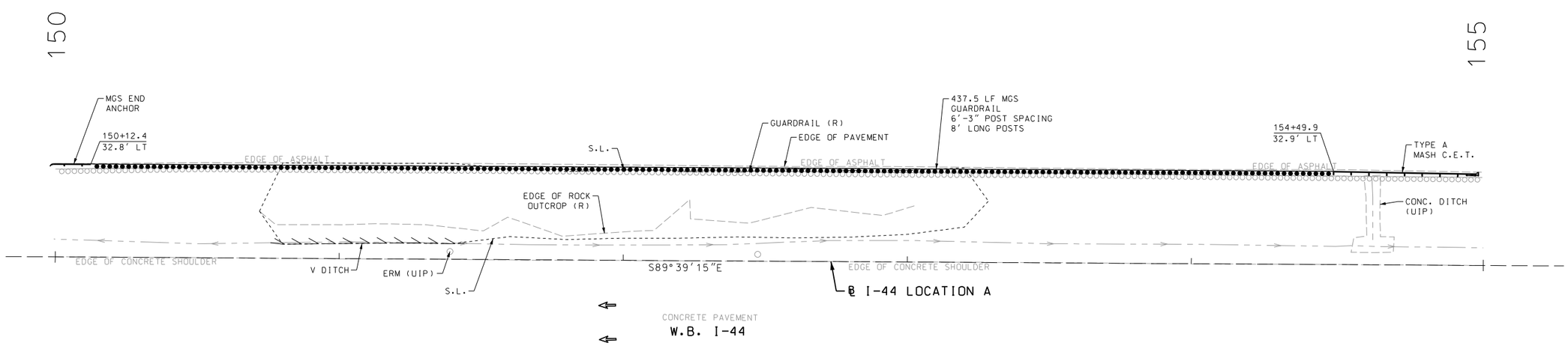
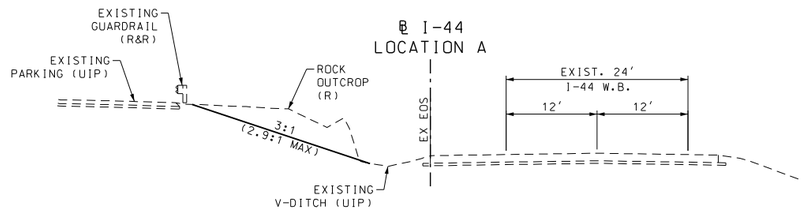
I-44 WEST LOG MILE 115.1 - 115.2





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.

TYPICAL SECTION
I-44 WEST LOG MILE 115.1 - 115.2
LOCATION A
STA 150+71.82 TO STA 153+28.44

NOTE:
ERM - EMERGENCY REFERENCE MARKER

SCALE
0 20 40 60

SPECIAL SHEET
LOCATION A
LOG MILE 115.1-115.2
WESTBOUND TRUCK STOP
SHEET 1 OF 8

STATE OF MISSOURI
PAUL JOSEPH KRONLAGE
NUMBER EN 023328
REGISTERED PROFESSIONAL ENGINEER
THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED
9/8/2021

ROUTE	STATE
I-44	MO
DISTRICT	SHEET NO.
CD	37

COUNTY
PHELPS-CRAWFORD

JOB NO.
J5I3397

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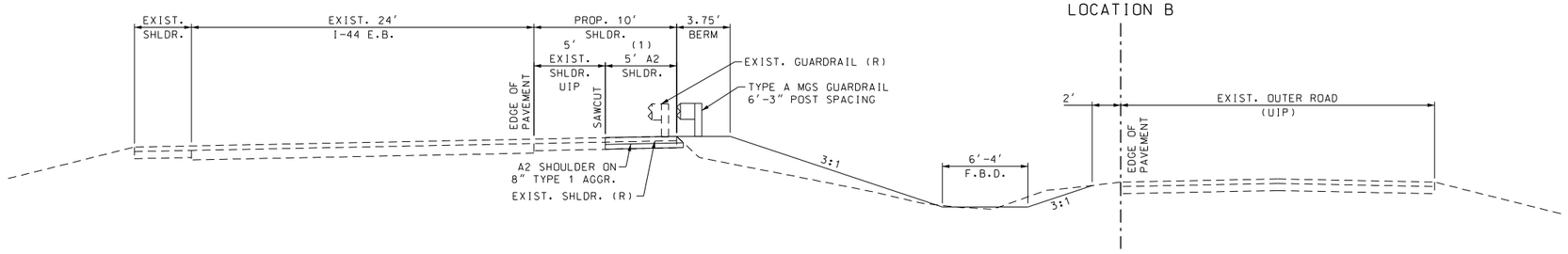
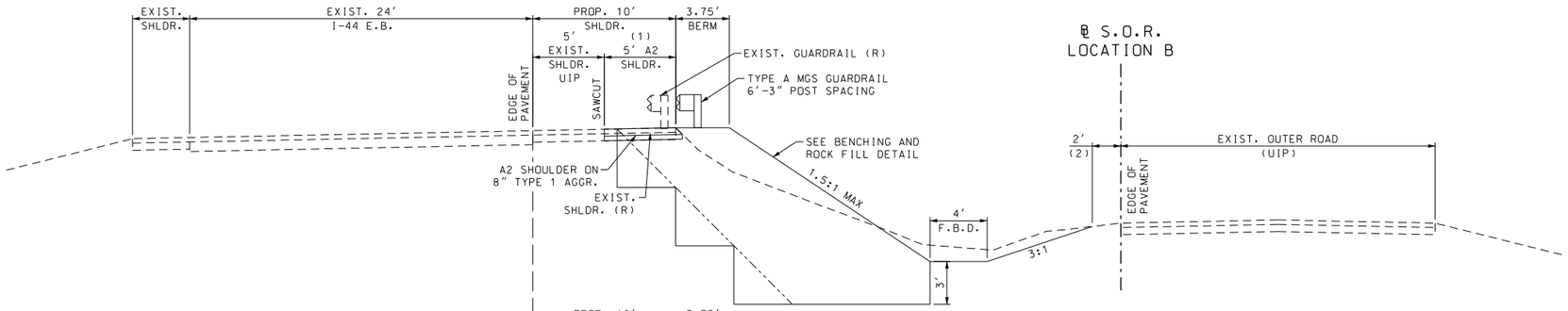
Missouri Certificate of Authority: 001578

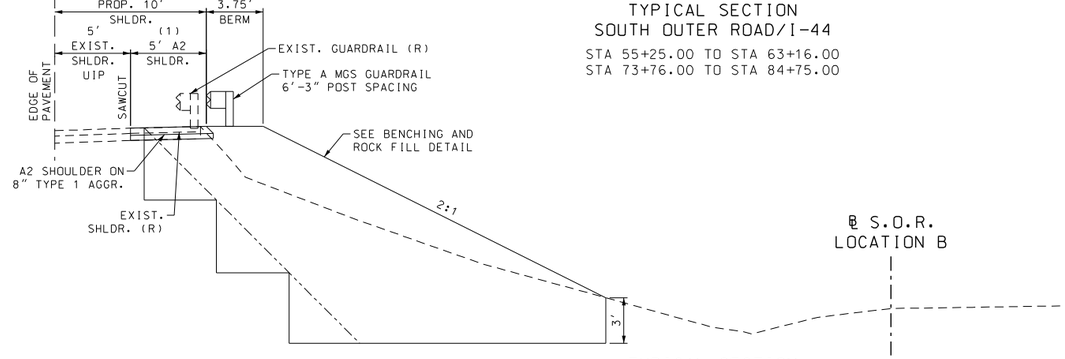
REV.



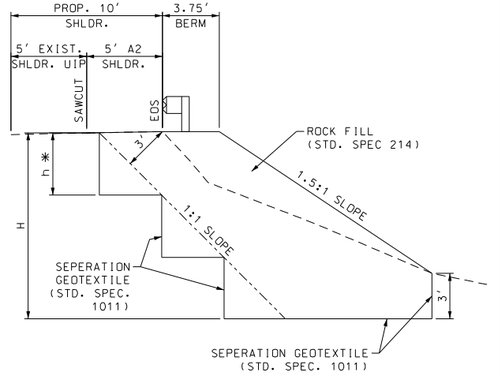
TYPICAL SECTION
SOUTH OUTER ROAD/I-44
STA 53+08.00 TO STA 55+25.00



TYPICAL SECTION
SOUTH OUTER ROAD/I-44
STA 55+25.00 TO STA 63+16.00
STA 73+76.00 TO STA 84+75.00

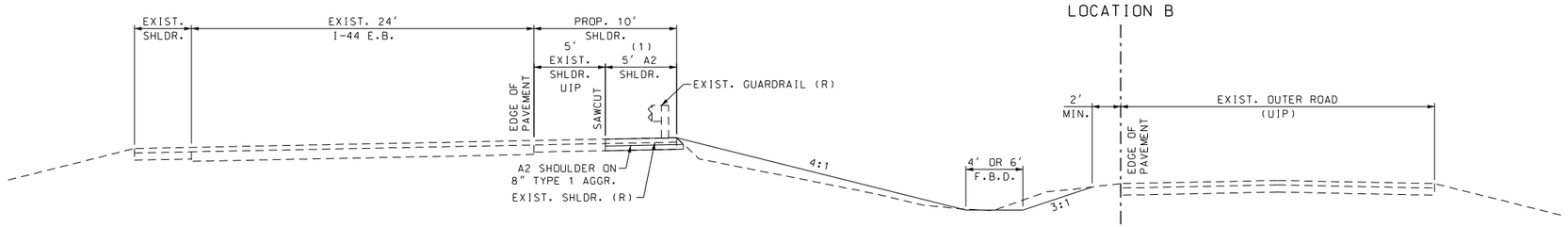


TYPICAL SECTION
SOUTH OUTER ROAD/I-44
STA 63+16.00 TO STA 73+76.00



BENCHING AND ROCK FILL DETAIL

* BENCHING HEIGHT (h) SHALL BE 3' MINIMUM TO 10' MAXIMUM.



TYPICAL SECTION
SOUTH OUTER ROAD/I-44
STA 84+75.00 TO STA 93+65.00

NOTES:

F.B.D. - FLAT BOTTOM DITCH

(1) STA. 55+25 TO STA. 93+65

(2) VARIES 1.5'-1' STA. 79+75 TO STA. 84+25

DISCLAIMER
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STATE OF MISSOURI
PAUL JOSEPH KRONLAGE
NUMBER E-N 023328
REGISTERED PROFESSIONAL ENGINEER
THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED: 9/8/2021
ROUTE: I-44 | STATE: MO
DISTRICT: CD | SHEET NO.: 38
COUNTY: PHELPS-CRAWFORD
JOB NO.: J5I3397
CONTRACT ID.:
PROJECT NO.:
BRIDGE NO.:

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

DATE	DESCRIPTION	REV.

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

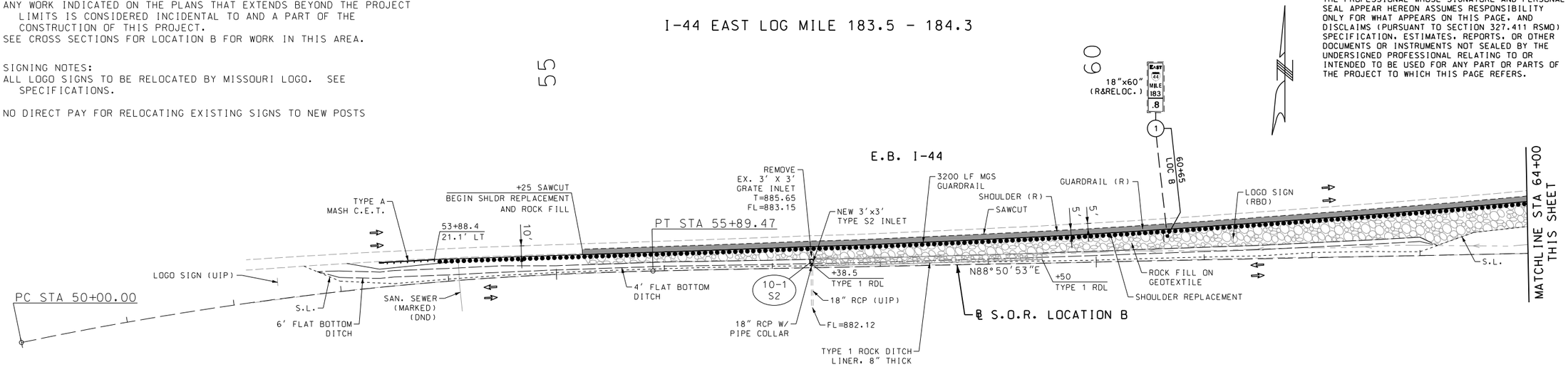
SPECIAL SHEET
LOCATION B
LOG MILE 183.5-184.3
MARTIN SPRINGS DRIVE
AT ROUTE 72
SHEET 2 OF 8

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.
SEE CROSS SECTIONS FOR LOCATION B FOR WORK IN THIS AREA.

SIGNING NOTES:
ALL LOGO SIGNS TO BE RELOCATED BY MISSOURI LOGO. SEE SPECIFICATIONS.

NO DIRECT PAY FOR RELOCATING EXISTING SIGNS TO NEW POSTS

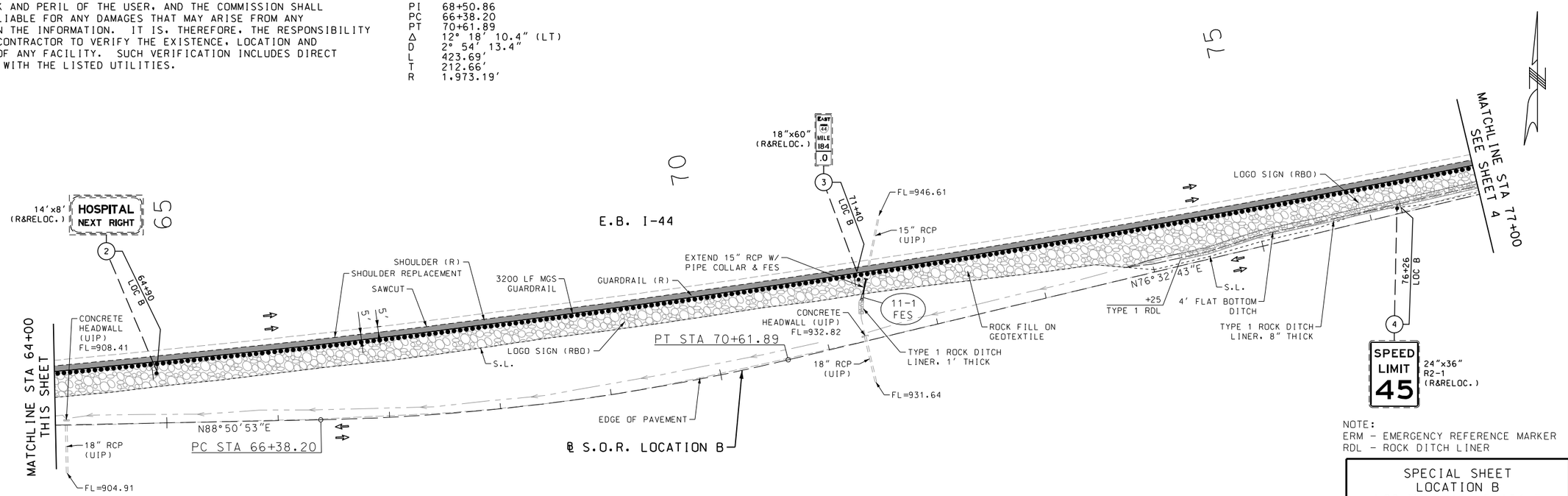
I-44 EAST LOG MILE 183.5 - 184.3



PI	52+95.58
PC	50+00.00
PT	55+89.47
Δ	10° 37' 17.0" (RT)
D	1° 48' 06.6"
L	589.47'
T	295.58'
R	3,179.84'

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.

PI	68+50.86
PC	66+38.20
PT	70+61.89
Δ	12° 18' 10.4" (LT)
D	2° 54' 13.4"
L	423.69'
T	212.66'
R	1,973.19'



NOTE:
ERM - EMERGENCY REFERENCE MARKER
RDL - ROCK DITCH LINER

SCALE
0 50 100 150

SPECIAL SHEET
LOCATION B
LOG MILE 183.5-184.3
MARTIN SPRINGS DRIVE
AT ROUTE 72
SHEET 3 OF 8

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STATE OF MISSOURI
PAUL JOSEPH KRONLAGE
NUMBER EN 023328
REGISTERED PROFESSIONAL ENGINEER
THIS SHEET HAS BEEN SEALED, SEALED AND DATED ELECTRONICALLY.

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

DATE PREPARED	
9/8/2021	
ROUTE	STATE
I-44	MO
DISTRICT	SHEET NO.
CD	39
COUNTY	
PHELPS-CRAWFORD	
JOB NO.	
J5I3397	
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)

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

REV.

SIGNING NOTES:
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NO DIRECT PAY FOR RELOCATING EXISTING SIGNS TO NEW POSTS

I-44 EAST LOG MILE 183.5 - 184.3

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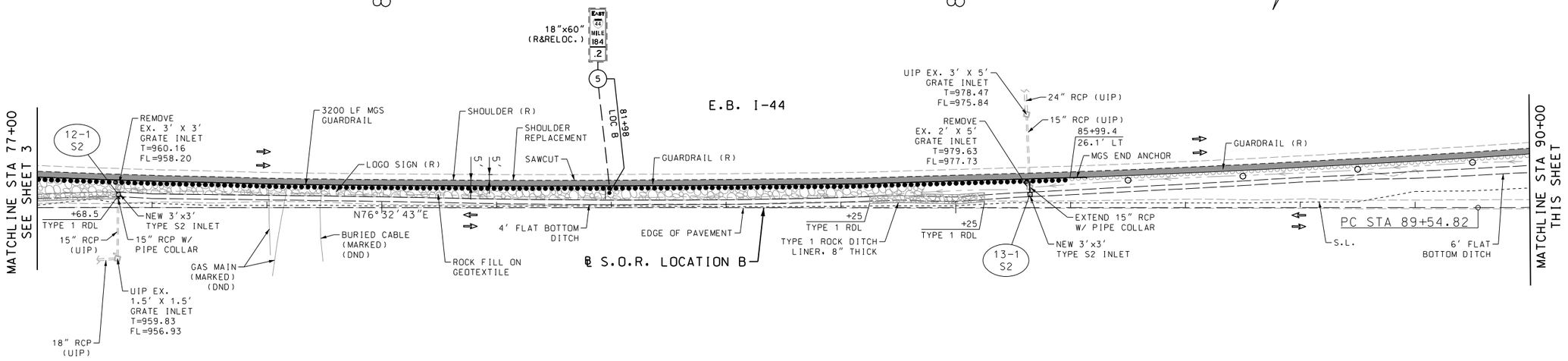
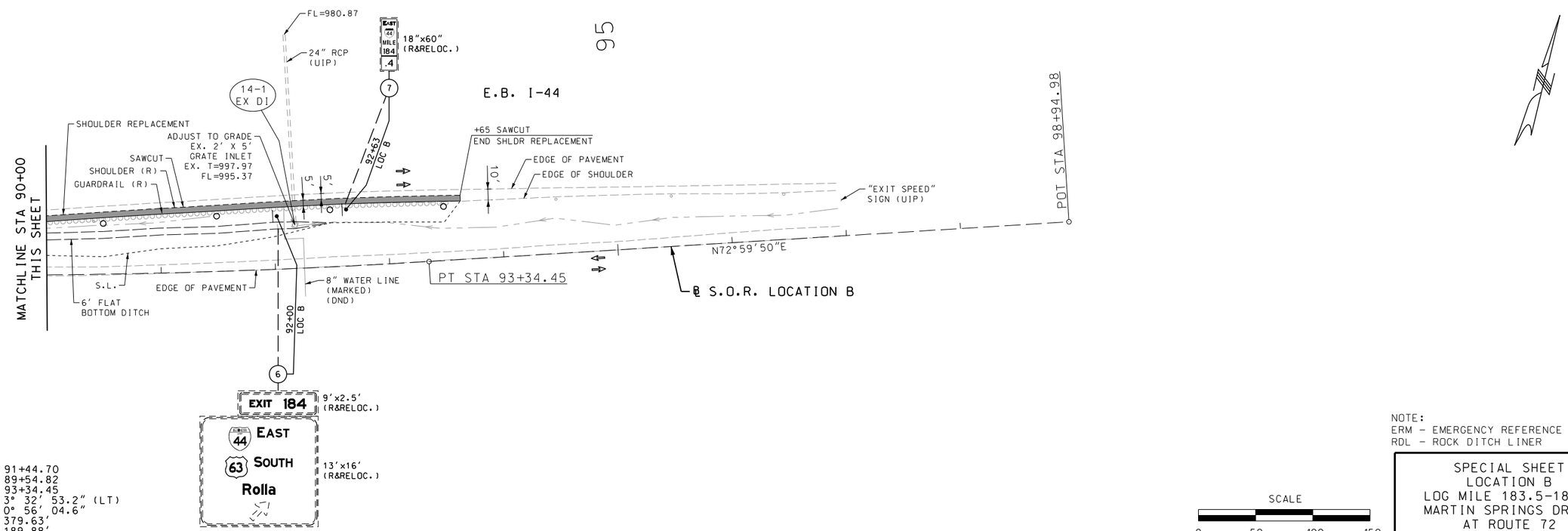


LEGEND:

○ WHITE DOUBLE STACKED DELINEATOR (8 EACH)



PI 91+44.70
PC 89+54.82
PT 93+34.45
Δ 3° 32' 53.2" (LT)
D 0° 56' 04.6"
L 379.63'
T 189.88'
R 6,130.37'

NOTE:
ERM - EMERGENCY REFERENCE MARKER
RDL - ROCK DITCH LINER

SCALE
0 50 100 150

SPECIAL SHEET
LOCATION B
LOG MILE 183.5-184.3
MARTIN SPRINGS DRIVE
AT ROUTE 72
SHEET 4 OF 8

STATE OF MISSOURI
PAUL JOSEPH KRONLAGE
NUMBER E-23328
REGISTERED PROFESSIONAL ENGINEER
THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED 9/8/2021
ROUTE I-44 | STATE MO
DISTRICT CD | SHEET NO. 40
COUNTY PHELPS-CRAWFORD
JOB NO. J513397
CONTRACT ID.
PROJECT NO.
BRIDGE NO.

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

REV.	DESCRIPTION	DATE

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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EFFECTIVE 12-01-2017

SIGNS (902 SIGNAL SIGNS TABULATED ON D-37A SHEET)						PIPE POST *					STRUCTURAL STEEL: POSTS *						BACKING BARS 2" X 1/8" BARS @ 2.55 LBS PER LIN FT				TOTAL	U CHANNEL POST	PERFORATED SQUARE STEEL TUBE POST: 2 IN							2.5 IN							BREAK-AWAY ASSEMBLY	FOOTINGS		REMARKS AND OTHER REQUIRED ITEMS.
SIGN NO.	SIGN SIZE	STATION	HORZ CLEAR IF NOT STD	LOCATION	SIGN DTL. SHT. NO.	PIPE SIZE	POST NO.1	POST NO.2	LBS PER FT	TOTAL ITEM NO. 9031220	POST DES NO.	POST NO.1	POST NO.2	POST NO.3	LBS PER FT	TOTAL	NO. EACH	LGTH	TOTAL	TOTAL	ITEM NO. 9031210	ITEM NO. 9031250	POST NO.1	POST NO.2	TOTAL ITEM NO. 9031270A	ANCHOR 7 GA. ITEM NO. 9031273	OMNI 7 GA. ITEM NO. 9031279	ANCHOR 12 GA. ITEM NO. 9031271	OMNI 12 GA. ITEM NO. 9031278	POST NO.1	POST NO.2	TOTAL ITEM NO. 9031280	2.25" INSERT ITEM NO. 9031272	ANCHOR 7 GA. ITEM NO. 9031281	OMNI 7 GA. ITEM NO. 9031282	ITEM NO. 9031241	EMBD ITEM NO. 9031010	BOLT DOWN ITEM NO. 9031020	
						IN.	LF	LF		LBS		LF	LF	LF		LBS	EACH	IN.	LF	LBS	LBS	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	EACH	CU YDS	CU YDS	
1	18"x60"	60+65		LOC B																			16		16			3												
2	14'x8'	64+90		LOC B							3	22.25	26.50		18	877.50																							1.56		RELOC. EX. SIGN TO NEW POST (N.D.P.)
3	18"x60"	71+40		LOC B																			16		16			3												RELOC. EX. SIGN TO NEW POST (N.D.P.)
4	24"x36"	76+26		LOC B																			16		16			3												RELOC. EX. SIGN TO NEW POST (N.D.P.)
5	18"x60"	81+98		LOC B																			16		16			3												RELOC. EX. SIGN TO NEW POST (N.D.P.)
6	ASSY	92+00	9'	LOC B							5	31.00	33.75		35	2266.25																					2.86		RELOC. EX. SIGN TO NEW POST (N.D.P.)
7	18"x60"	92+63		LOC B																			16		16			3												RELOC. EX. SIGN TO NEW POST (N.D.P.)
																																								DELINEATORS:
																																								8 EA WHITE DBL STACKED
SUBTOTAL																3143.75				0.00					80			15									4.42		
TOTAL																					3144				80			15									4.42		

* BREAKAWAY ASSEMBLY IS INCIDENTAL FOR PIPE AND STRUCTURAL STEEL 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
3	7.58	0.63	4'- 3½"	12"	4'-6"	0.13
4	10.79	0.90	5'- 3½"	18"	5'-6"	0.36

POST AND FOOTING DATA TABLE

POST DES. NO.	NOM. SIZE	POST WEIGHT LBS/FT	POST WEIGHT LBS/IN	POST STUB LENGTH	FOOTING DIA.	LEVEL GROUND DEPTH	LEVEL GROUND C.Y.	6:1 GRADE DEPTH	6:1 GRADE C.Y.	4:1 GRADE DEPTH	4:1 GRADE C.Y.	3:1 OR 2:1 GRADE DEPTH	3:1 OR 2:1 GRADE C.Y.
1	W6	9.0	0.75	3'-0"	15"	3'-0"	0.14	3'-2"	0.15	3'-3"	0.16	3'-6"	0.17
2	W6	15.0	1.25	4'-0"	24"	4'-0"	0.47	4'-2"	0.50	4'-3"	0.51	4'-6"	0.54
3	W8	18.0	1.50	4'-6"	28"	4'-6"	0.71	4'-8"	0.73	4'-9"	0.74	5'-0"	0.78
4	W10	22.0	1.83	5'-0"	36"	5'-0"	1.31	5'-2"	1.36	5'-3"	1.39	5'-6"	1.45
5	W10	26.0	2.17	5'-0"	36"	5'-0"	1.31	5'-3"	1.37	5'-5"	1.43	5'-9"	1.52
6	W12	35.0	2.92	5'-6"	36"	5'-6"	1.44	5'-9"	1.52	5'-11"	1.56	6'-3"	1.65

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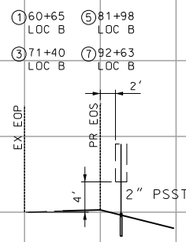
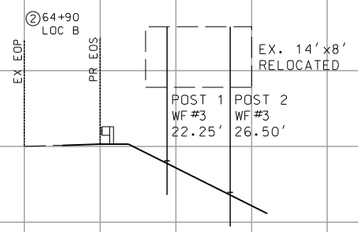
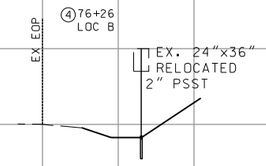
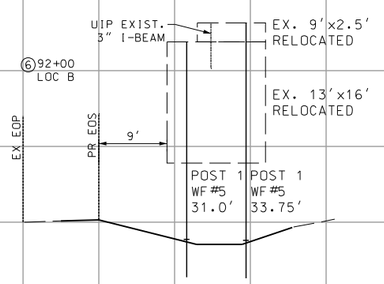
D-29

NOTE - NO DIRECT PAY FOR RELOCATING EXISTING SIGNS TO NEW POSTS









10'

SPECIAL SHEET
LOCATION B
LOG MILE 183.5-184.3
MARTIN SPRINGS DRIVE
AT ROUTE 72
SHEET 5 OF 8

PAUL JOSEPH KRONLAGE NUMBER EN 023328 REGISTERED PROFESSIONAL ENGINEER
THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED 9/8/2021
ROUTE I-44 | STATE MO
DISTRICT CD | SHEET NO. 41
COUNTY PHELPS-CRAWFORD
JOB NO. J513397
CONTRACT ID.
PROJECT NO.
BRIDGE NO.

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

REV.	DESCRIPTION	DATE

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

Z:\21040 I-44 HRGREEN\DGN\Design\Final\Plotsheets\041_SS_05_J513397_I50_B_Martin Springs Signing.dgn 4:46:24 PM 9/8/2021

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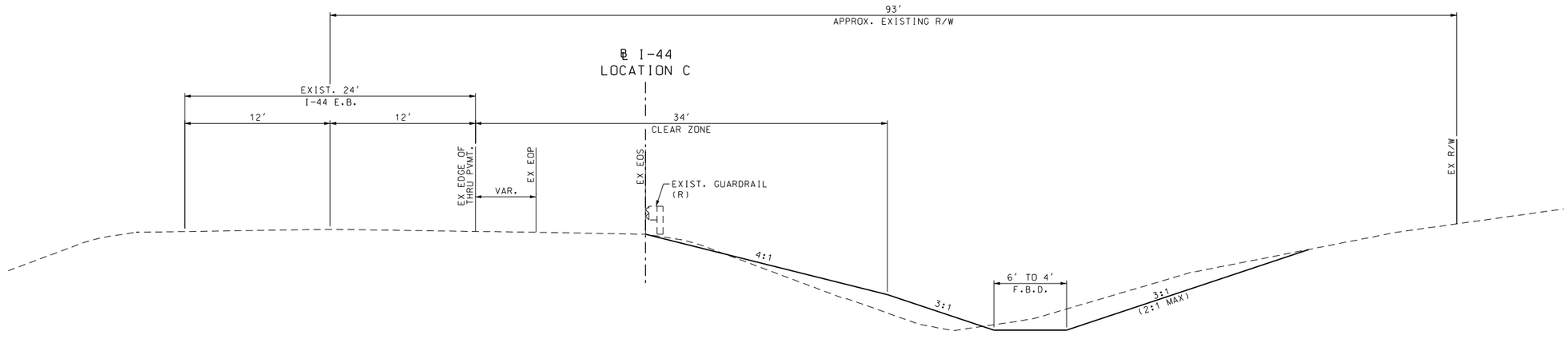


TYPICAL SECTION
I-44 EAST LOG MILE 184.9 - 185.0
LOCATION C
STA 102+50.00 TO STA 105+30.00

NOTES:
F.B.D. - FLAT BOTTOM DITCH

SPECIAL SHEET
LOCATION C
LOG MILE 184.9-185.0
ROUTE 72 EASTBOUND
ON-RAMP
SHEET 6 OF 8

STATE OF MISSOURI
PAUL JOSEPH KRONLAGE
NUMBER EN 023328
REGISTERED PROFESSIONAL ENGINEER
THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED
9/8/2021

ROUTE	STATE
I-44	MO
DISTRICT	SHEET NO.
CD	42

COUNTY
PHELPS-CRAWFORD

JOB NO.
J5I3397

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

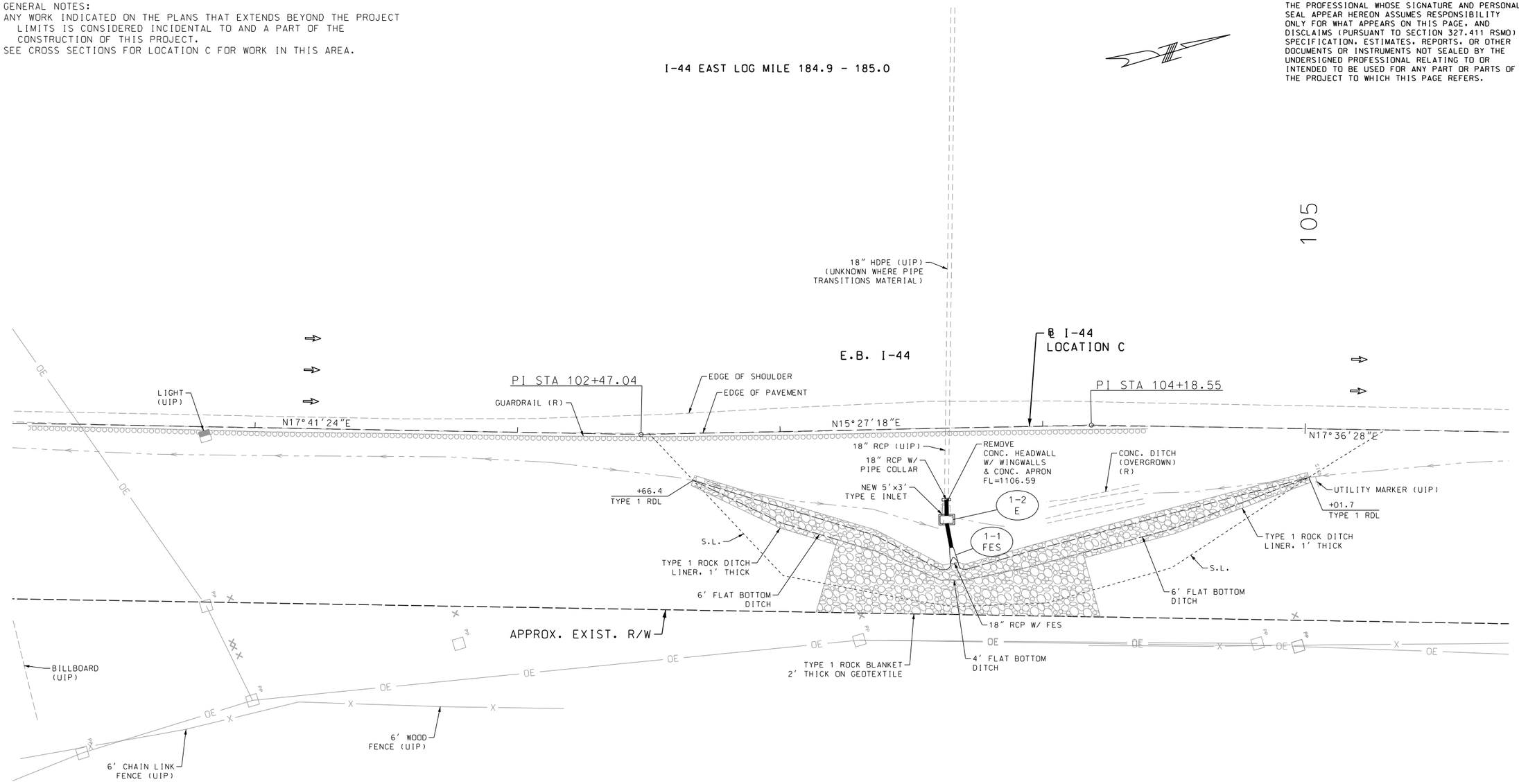
REV.

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.
SEE CROSS SECTIONS FOR LOCATION C FOR WORK IN THIS AREA.

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.

I-44 EAST LOG MILE 184.9 - 185.0

105



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.

SCALE
0 20 40 60

SPECAIL SHEET
LOCATION C
LOG MILE 184.9-185.0
ROUTE 72 EASTBOUND
ON-RAMP
SHEET 7 OF 8

STATE OF MISSOURI
PAUL JOSEPH KRONLAGE
NUMBER EN 023328
REGISTERED PROFESSIONAL ENGINEER
THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED	9/8/2021
ROUTE	STATE
I-44	MO
DISTRICT	SHEET NO.
CD	43
COUNTY	PHELPS-CRAWFORD
JOB NO.	J5I3397
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	

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

REV.	DATE	DESCRIPTION

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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GENERAL NOTES:
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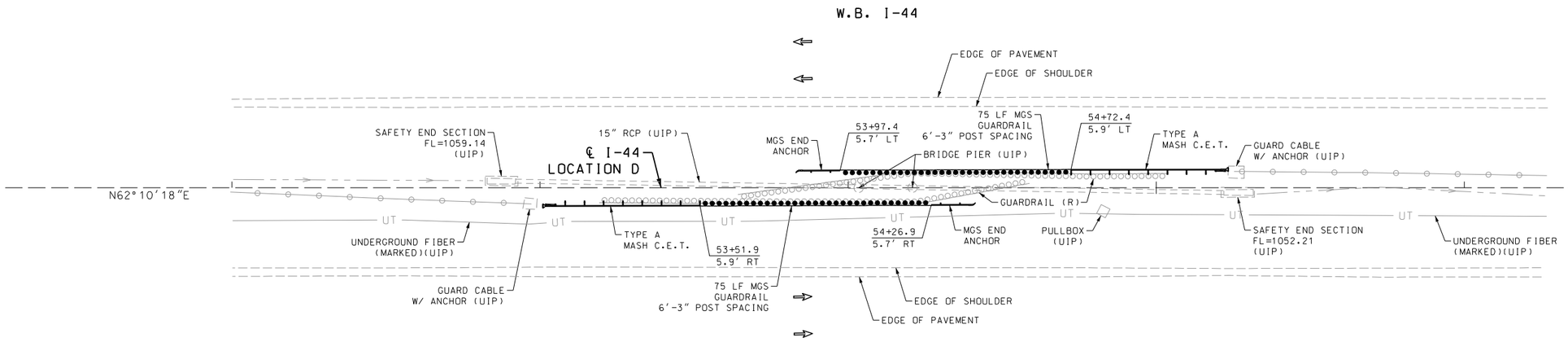
I-44 EAST LOG MILE 200.0 - 200.1

55



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SCALE
0 20 40 60

SPECIAL SHEET
LOCATION D
LOG MILE 200.0-200.1
ROUTE U BRIDGE OVER I-44
SHEET 8 OF 8

STATE OF MISSOURI
PAUL JOSEPH KRONLAGE
NUMBER EN-023328
REGISTERED PROFESSIONAL ENGINEER
THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED 9/8/2021
ROUTE I-44 | STATE MO
DISTRICT CD | SHEET NO. 44
COUNTY PHELPS-CRAWFORD
JOB NO. J5I3397
CONTRACT ID.
PROJECT NO.
BRIDGE NO.

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

REV. | DATE | DESCRIPTION

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
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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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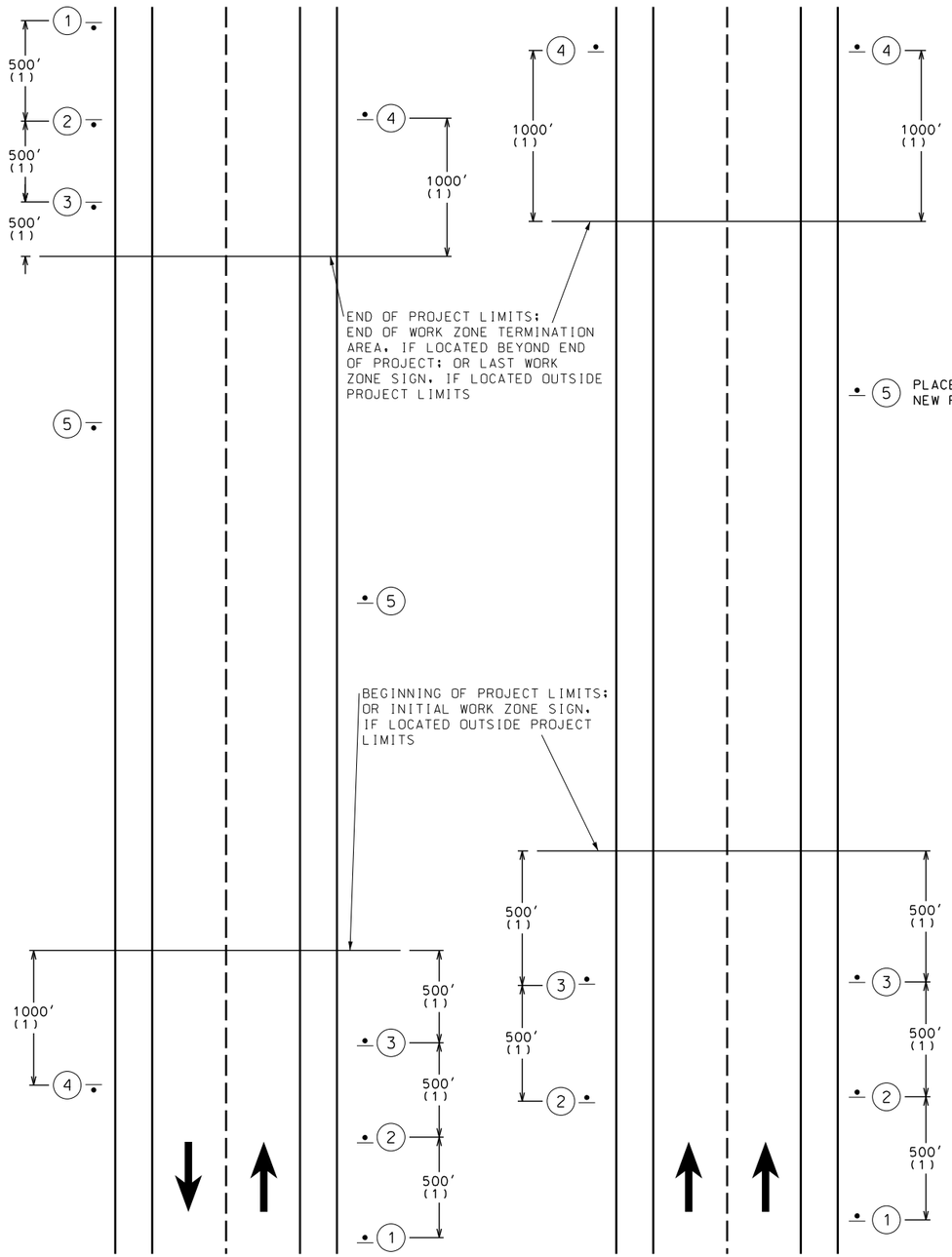
BEGIN/END OF PROJECT SIGNING - DE/CM & MT



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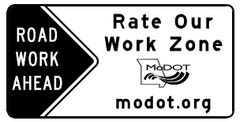
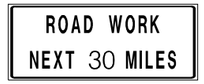


CONST-7-72

(1)

(2)



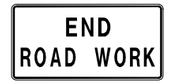
G020-1

(2)

CONST-8

(3)

(6)



G020-2

(4)

CONST-5-96

(5)

(3) (5)

CONST-7-48

(2) (4)

GENERAL NOTES:

SIGN G020-1 IS REQUIRED PER EPG 616.6.56.

SIGN G020-2 IS USED ON ALL PROJECTS WHERE SIGN G020-1 IS USED.

OTHER SIGNS SUCH AS DETOUR OR ALTERNATE ROUTE SIGNING MAY BE USED OUTSIDE THE PROJECT LIMITS.

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

(1) DISTANCE MAY BE ADJUSTED ACCORDING TO FIELD CONDITIONS WHERE TRAFFIC BACKUPS ARE EXPECTED BEYOND THE ADVANCE WARNING AREA. ADDITIONAL SIGNING MAY BE NEEDED.

(2) SIGN CONST-7-72 OR CONST-7-48 IS PLACED 500 FEET BEFORE THE BEGINNING OF PROJECT LIMITS OR THE ROAD WORK AHEAD SIGN OR ROAD WORK NEXT XX MILES SIGN, IF USED, WHEN THESE SIGNS ARE LOCATED OUTSIDE THE PROJECT LIMITS.

(3) CONST-5-96 OR CONST-5-48 SIGN IS PLACED IN A VISIBLE AREA WITHIN THE PROJECT LIMITS PROVIDED ITS PLACEMENT DOES NOT DISRUPT A SEQUENCE OF SIGNS. IF A VISIBLE LOCATION WITHIN THE PROJECT IS NOT AVAILABLE, THE SIGN MAY BE PLACED 500 FEET BEFORE SIGN CONST-7-72 OR CONST-7-48.

(4) THE "RATE OUR WORK ZONE" SIGN IS AVAILABLE IN TWO SIZES DEPENDING ON ROADWAY CONDITIONS. THE 48 IN. X 24 IN. SIGN IS USED ON LOW VOLUME ROUTES THAT CARRY 400 AADT OR LESS, ON PROJECTS THAT HAVE A DURATION OF 4 WEEKS OR LESS OR IN URBAN AREAS WHERE THERE IS INSUFFICIENT LIGHTS OF WAY FOR A SIX FOOT WIDE SIGN. THE 72 IN. X 36 IN. VERSION OF THE SIGN IS USED IN ALL OTHER APPLICATIONS, BUT CAN ALSO BE USED IN PLACE OF THE 48 IN. X 24 IN. SIGN IF ADDED EMPHASIS IS DEEMED NECESSARY.

(5) THE "POINT OF PRESENCE" SIGN IS AVAILABLE IN TWO SIZES DEPENDING ON ROADWAY CONDITIONS. THE 48 IN. X 36 IN. SIGN IS USED ON LOW VOLUME ROUTES THAT CARRY 400 AADT OR LESS, ON PROJECTS THAT HAVE A DURATION OF 4 WEEKS OR LESS OR IN URBAN AREAS WHERE THERE IS INSUFFICIENT LIGHTS OF WAY FOR A EIGHT FOOT WIDE SIGN. THE 96 IN. X 48 IN. VERSION OF THE SIGN IS USED IN ALL OTHER APPLICATIONS, BUT CAN ALSO BE USED IN PLACE OF THE 48 IN. X 36 IN. SIGN IF ADDED EMPHASIS IS DEEMED NECESSARY.

(6) THE "WORK ZONE NO PHONE ZONE" SIGN IS PLACED A MINIMUM OF 500 FEET BEFORE THE ROAD WORK AHEAD SIGN.

JOB NOTES:

THIS DETAIL COVERS J5I3482 AND J5I3572.

FOR SUGARTREE ROAD WORK, SEE STANDARD 616.20 FOR TWO-LANE ROADWAY TEMPORARY TRAFFIC CONTROL PLANS

TRAFFIC CONTROL
TYPICAL
BEGIN/END OF PROJECT
SIGNING
SHEET 1 OF 17

DISCLAIMER
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STATE OF MISSOURI
PAUL JOSEPH KRONLAGE
NUMBER E-N 023328
REGISTERED PROFESSIONAL ENGINEER
THIS SHEET WAS SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED: 9/8/2021

ROUTE	STATE
I-44	MO
DISTRICT	SHEET NO.
CD	45

COUNTY: PHELPS-CRAWFORD

JOB NO.: J5I3397

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)

EFK•Moen
Civil Engineering Design
13523 Barrett Parkway Dr
Suite 250
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Phone 314-394-3100
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REV.

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SPEED	SIGN SPACING (FT)		
NORMAL POSTED (MPH)	UNDIVIDED (S)	DIVIDED (S)	TAPER (T1)
0-35	200	200	70
40-45	350	500	150
50-55	500	1000	185
60-70	1000	SA - 1000 SB - 1500 SC - 2640	235

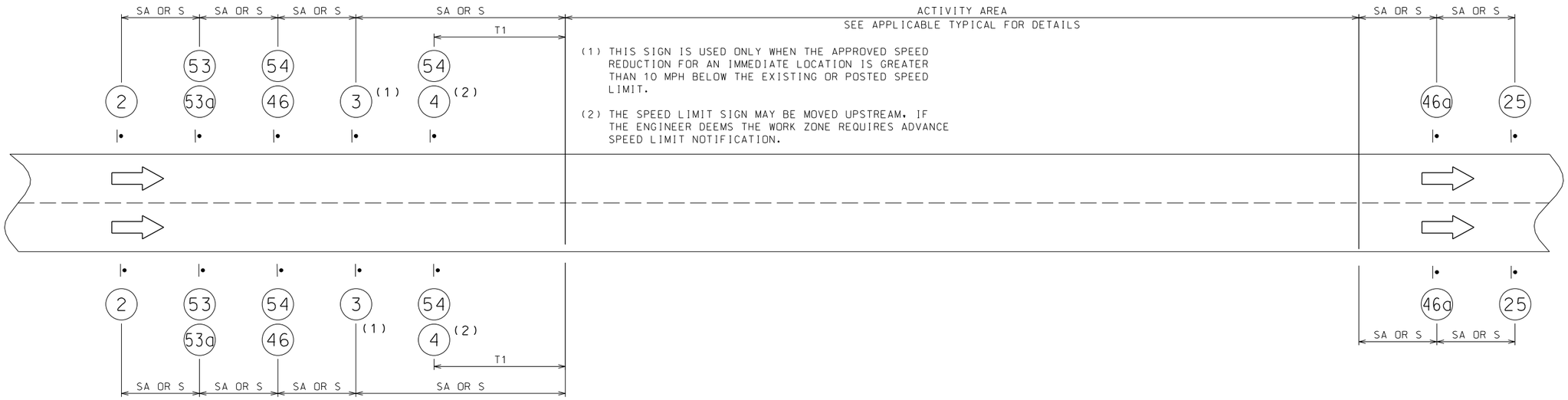
GENERAL TCP NOTES:

DISTANCE BETWEEN SIGNS MAY BE ADJUSTED ACCORDING TO FIELD CONDITIONS. WHERE TRAFFIC BACKUPS ARE EXPECTED BEYOND THE ADVANCE WARNING AREA, ADDITIONAL SIGNING MAY BE NEEDED AS DIRECTED BY THE ENGINEER.

ALL EXISTING SIGNS THAT CONFLICT WITH THE PROPOSED TCP SHALL BE COVERED, NO DIRECT PAY.

NO DIRECT PAYMENT FOR RELOCATION OF TCP SIGNS.

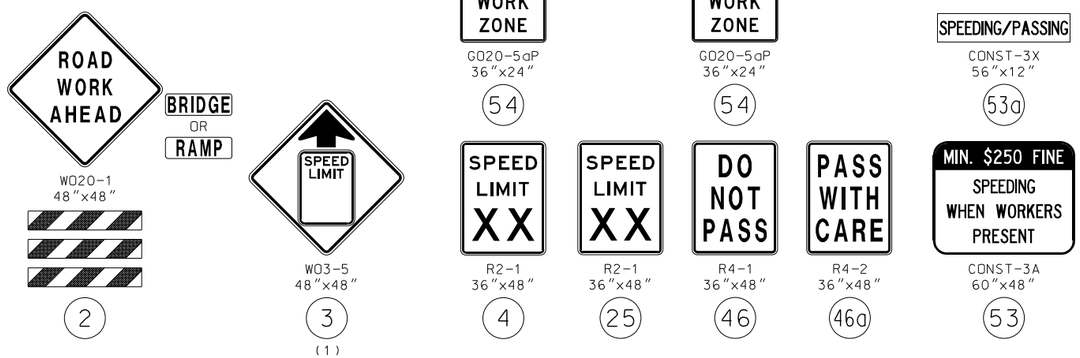
ALL WARNING SIGNS SHALL HAVE FLUORESCENT SHEETING.



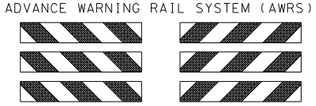
(1) THIS SIGN IS USED ONLY WHEN THE APPROVED SPEED REDUCTION FOR AN IMMEDIATE LOCATION IS GREATER THAN 10 MPH BELOW THE EXISTING OR POSTED SPEED LIMIT.

(2) THE SPEED LIMIT SIGN MAY BE MOVED UPSTREAM, IF THE ENGINEER DEEMS THE WORK ZONE REQUIRES ADVANCE SPEED LIMIT NOTIFICATION.

WORK ZONE FINE SIGN AND SPEED LIMIT LOCATIONS WITHIN THE ADVANCE WARNING AREA TRAFFIC CONTROL TYPICAL



ADVANCE WARNING RAIL SYSTEM (AWRS)



TRAFFIC CONTROL LEGEND

- SIGN (SINGLE SIDED)
- ADVANCED WARNING RAIL SYSTEM
- CHANNELIZER (TRIM LINE)
- DIRECTIONAL INDICATOR BARRICADE
- FLASHING ARROW PANEL
- TRUCK MOUNTED ATTENUATOR
- WORK ZONE

NOT TO SCALE

TRAFFIC CONTROL
TYPICAL
WORK ZONE REDUCED
SPEED LIMIT
SHEET 2 OF 17

STATE OF MISSOURI
PAUL JOSEPH KRONLAGE
NUMBER EN 023328
REGISTERED PROFESSIONAL ENGINEER
THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED
9/8/2021

ROUTE	STATE
I-44	MO
DISTRICT	SHEET NO.
CD	46

COUNTY
PHELPS-CRAWFORD

JOB NO.
J5I3397

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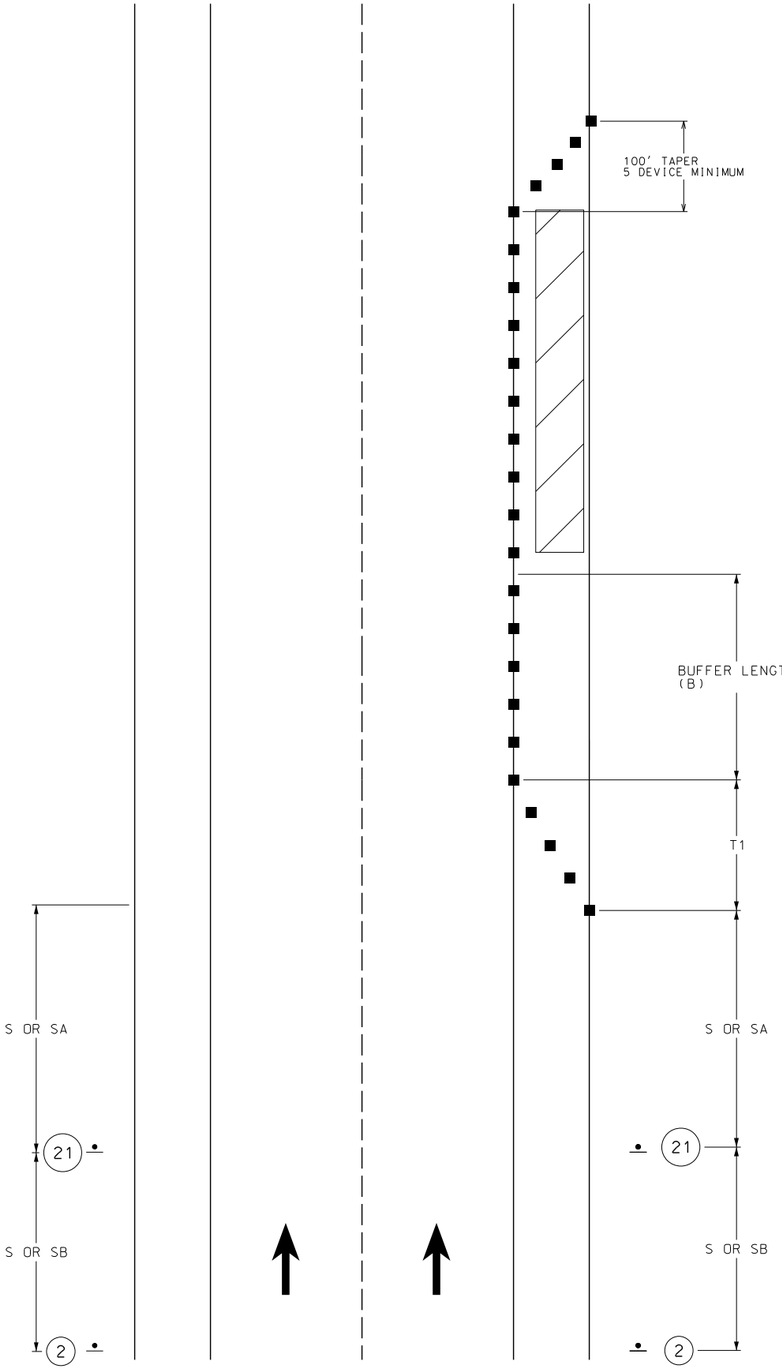
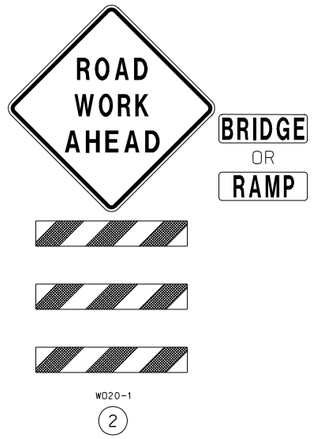
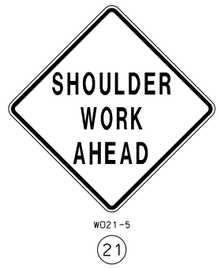
Missouri Certificate of Authority: 001578

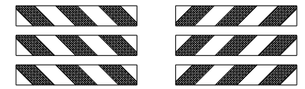
SHOULDER WORK ON DIVIDED HIGHWAYS







ADVANCE WARNING RAIL SYSTEM (AWRS)



LEFT SIDE OF ROAD

RIGHT SIDE OF ROAD

NOTES:

SEE EPG 616.12 WORK ZONE SPEED LIMITS FOR SPEED LIMIT GUIDELINES.

SPEED	SIGN SPACING (ft.)		TAPER LENGTH (ft.)		OPTIONAL	CHANNELIZER SPACING (ft.)	
Normal Posted (mph)	Undivided (S)	Divided (S)	Shoulder (1) (T1)	Lane (2) (T2)	BUFFER LENGTH (ft.) (B)	Tapers	Buffer/ Work Areas
0-35	200	200	70	245	280	35	40
40-45	350	500	150	540	400	40	80
50-55	500	1000	185	660	560	50	80
60-70	1000	SA - 1000 SB - 1500 SC - 2640	235	840	840	60	120
1. Shoulder taper length based on 10 ft. (standard shoulder width) offset. 2. Lane taper length based on 12 ft. (standard lane width) offset.							

TRAFFIC CONTROL LEGEND

- SIGN (SINGLE SIDED)
- ADVANCED WARNING RAIL SYSTEM
- CHANNELIZER (TRIM LINE)
- DIRECTIONAL INDICATOR BARRICADE
- FLASHING ARROW PANEL
- TRUCK MOUNTED ATTENUATOR
- WORK ZONE

NOT TO SCALE

TRAFFIC CONTROL
TYPICAL
SHOULDER CLOSURE ON
DIVIDED HIGHWAY
SHEET 3 OF 17

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STATE OF MISSOURI
PAUL JOSEPH KRONLAGE
NUMBER EN 023328
REGISTERED PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED 9/8/2021

ROUTE	STATE
I-44	MO
DISTRICT	SHEET NO.
CD	47

COUNTY: PHELPS-CRAWFORD

JOB NO. J5I3397

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DESCRIPTION	DATE

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

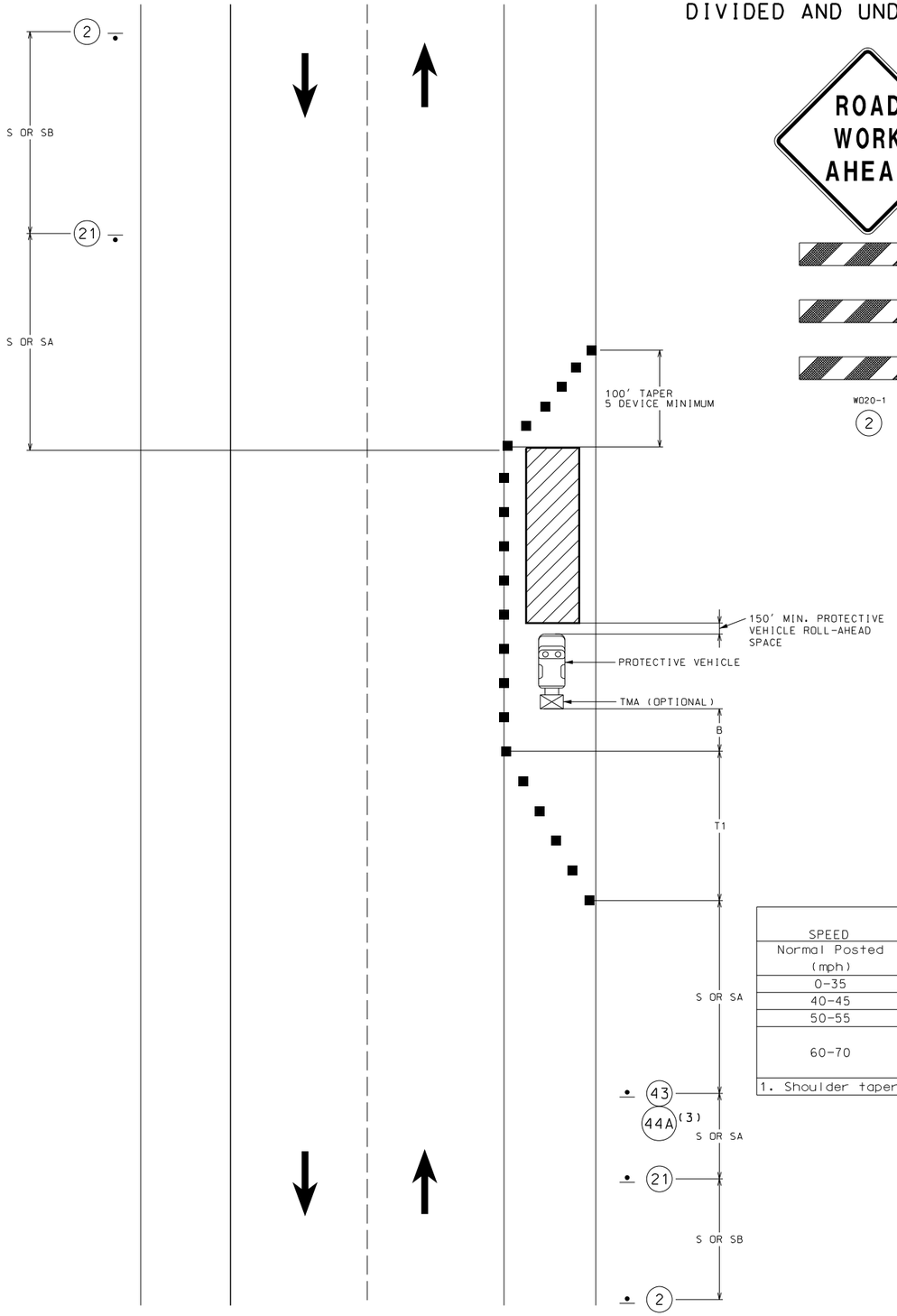
MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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

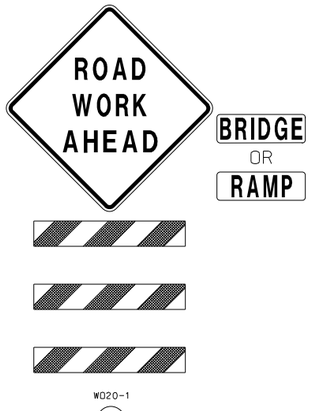
EFK•Moen
Civil Engineering Design
13523 Barrett Parkway Dr
Suite 250
St. Louis, MO 63021
Phone 314-394-3100
Fax 314-394-3199
Missouri Certificate of Authority: 001578

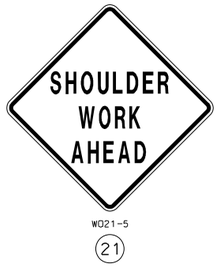
REV.

TA-6 - SHOULDER WORK WITH MINOR ENCROACHMENT ON DIVIDED AND UNDIVIDED HIGHWAYS - DE/CM



NOT TO SCALE





NOTES:

PROVIDE SIGNS ON LEFT AND RIGHT SIDES OF DIVIDED HIGHWAYS

ROAD WORK AHEAD SIGN NOT NEEDED IF SHOULDER WORK IS LOCATED WITHIN THE LIMITS OF AN ACTIVITY AREA WHERE ANOTHER ROAD WORK AHEAD SIGN IS ALREADY USED.

SEE EPG 616.12 WORK ZONE SPEED LIMITS FOR SPEED LIMIT GUIDELINES.

(3) NEXT XX MILES SIGN NOT REQUIRED FOR NARROW LANE SECTIONS LESS THAN ONE MILE.

THE PROTECTIVE VEHICLE MAY BE OMITTED IF A TAPER AND CHANNELIZING DEVICES ARE USED.

VEHICLE - MOUNTED SIGNS SHALL BE MOUNTED IN A MANNER SUCH THAT THEY ARE NOT OBSCURED BY EQUIPMENT OR SUPPLIES. SIGN LEGENDS ON VEHICLE - MOUNTED SIGNS SHALL BE COVERED OR TURNED FROM VIEW WHEN WORK IS NOT IN PROGRESS.

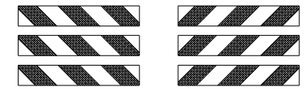
VEHICLE HAZARD WARNING SIGNALS SHALL NOT BE USED INSTEAD OF VEHICLE'S ROTATING LIGHTS OR STROBE LIGHTS

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

TRAFFIC CONTROL LEGEND

- SIGN (SINGLE SIDED)
- ADVANCED WARNING RAIL SYSTEM
- CHANNELIZER (TRIM LINE)
- DIRECTIONAL INDICATOR BARRICADE
- FLASHING ARROW PANEL
- TRUCK MOUNTED ATTENUATOR
- WORK ZONE

ADVANCE WARNING RAIL SYSTEM (AWRS)



SPEED	SIGN SPACING (ft.)		TAPER LENGTH (ft.)		OPTIONAL	CHANNELIZER SPACING (ft.)	
Normal Posted (mph)	Undivided (S)	Divided (S)	Shoulder (1) (T1)	Lane (2) (T2)	BUFFER LENGTH (ft.) (B)	Tapers	Buffer/ Work Areas
0-35	200	200	70	245	280	35	40
40-45	350	500	150	540	400	40	80
50-55	500	1000	185	660	560	50	80
60-70	1000	SA - 1000 SB - 1500 SC - 2640	235	840	840	60	120

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

DISCLAIMER
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STATE OF MISSOURI
PAUL JOSEPH KRONLAGE
NUMBER E/N 023328
REGISTERED PROFESSIONAL ENGINEER
THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED 9/8/2021

ROUTE	STATE
I-44	MO
DISTRICT	SHEET NO.
CD	48

COUNTY: PHELPS-CRAWFORD
JOB NO.: J5I3397
CONTRACT ID.:
PROJECT NO.:
BRIDGE NO.:

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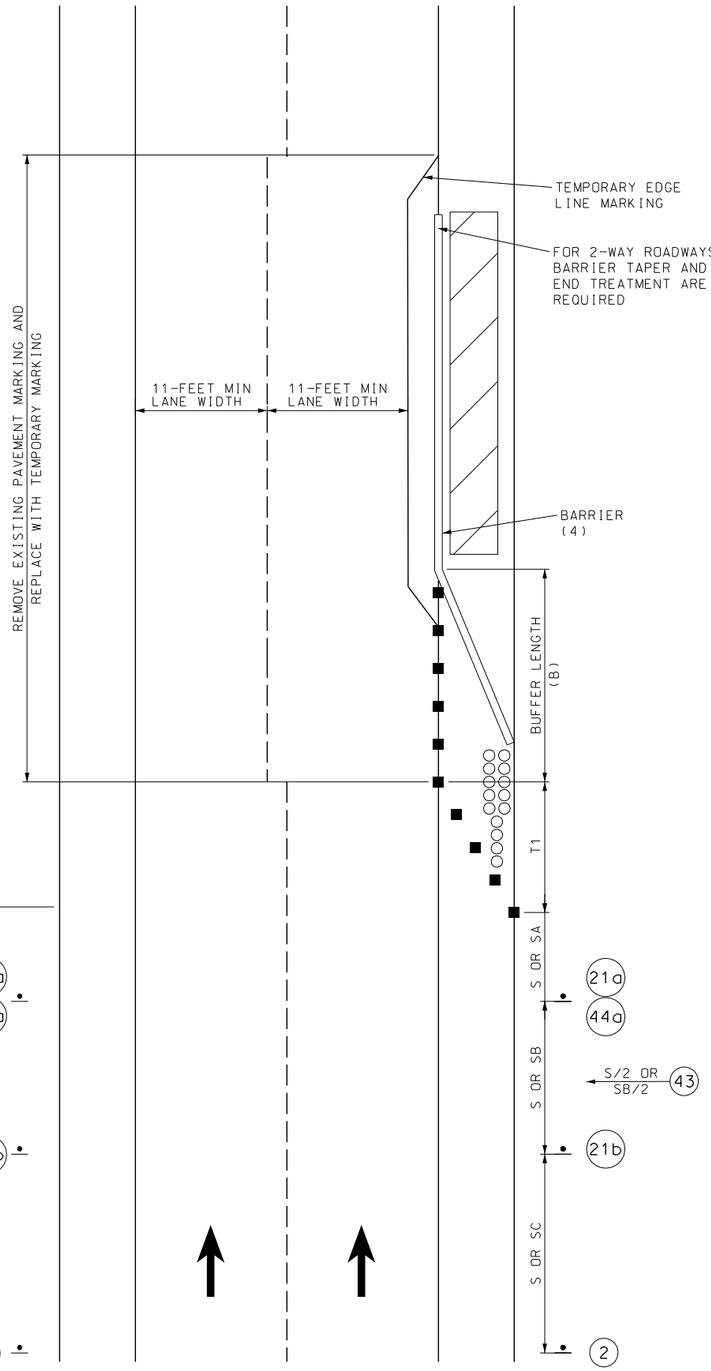
REV.	DESCRIPTION	DATE

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

TRAFFIC CONTROL
TYPICAL
SHOULDER CLOSURE
WITH ENCROACHMENT ON
DIVIDED HIGHWAY
SHEET 4 OF 17

SHOULDER WORK ON DIVIDED HIGHWAYS
REDUCED LANE WIDTHS



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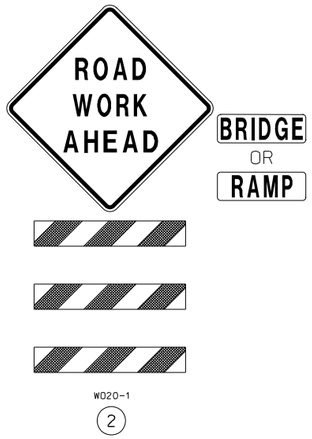
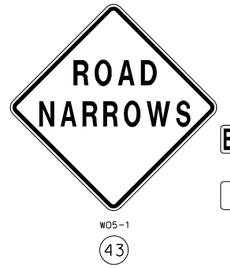
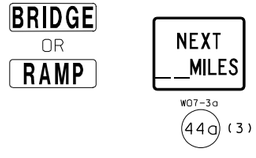
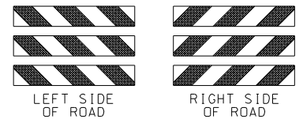






ADVANCE WARNING RAIL SYSTEM (AWRS)



NOTES:

(3) "NEXT XX MILES" NOT REQUIRED FOR NARROW LANE SECTIONS LESS THAN ONE MILE.

(4) CONCRETE BARRIER MAY BE INSTALLED AT AN 8:1 FLARE RATE FROM THE SHOULDER POINT TO THE LIMITS OF THE CLEAR ZONE WHERE THE SIDE SLOPE IS 6:1 OR FLATTER.

(4) FLARE BARRIER SHOULD EXTEND EITHER BEYOND THE CLEAR ZONE, OR TO THE EDGE LINE WITH USE OF AN APPROVED END TREATMENT.

(4) BARRIER HEIGHT TRANSITION MAY BE USED WHEN THE POSTED SPEED LIMIT PRIOR TO ROAD WORK IS LESS THAN 40 MPH.

(4) APPROVED CRASH CUSHION ARE TO BE USED WHEN THE POSTED SPEED LIMIT PRIOR TO ROAD WORK IS GREATER THAN OR EQUAL TO 40 MPH.

"ROAD WORK AHEAD" SIGN IS NOT NEEDED IF SHOULDER WORK IS LOCATED WITHIN THE LIMITS OF AN ACTIVITY AREA WHERE ANOTHER "ROAD WORK AHEAD" SIGN IS ALREADY USED.

IF SHOULDER IS SUITABLE FOR CARRYING TRAFFIC, LANES MAY BE SHIFTED TO SHOULDER WITH APPROPRIATE PAVEMENT MARKING.

ROAD NARROWS SIGN SHOULD BE USED WHEN THE LANES WIDTH ARE REDUCED.

ON UNDIVIDED HIGHWAYS, PROVIDE SIGNS ONLY ON THE RIGHT SIDE OF EACH APPROACH.

TEMPORARY TRAFFIC BARRIERS, IF USED, SHALL COMPLY WITH THE PROVISIONS OF EPG 616.6.85.

SEE EPG 616.12 WORK ZONE SPEED LIMITS FOR SPEED LIMIT GUIDELINES.

TRAFFIC CONTROL LEGEND

- SIGN (SINGLE SIDED)
- ADVANCED WARNING RAIL SYSTEM
- CHANNELIZER (TRIM LINE)
- DIRECTIONAL INDICATOR BARRICADE
- FLASHING ARROW PANEL
- TRUCK MOUNTED ATTENUATOR
- WORK ZONE
- IMPACT ATTENUATOR (SAND BARREL ARRAY)
- BARRIER

SPEED	SIGN SPACING (ft.)		TAPER LENGTH (ft.)		OPTIONAL	CHANNELIZER SPACING (ft.)	
Normal Posted (mph)	Undivided (S)	Divided (S)	Shoulder (1) (T1)	Lane (2) (T2)	BUFFER LENGTH (ft.) (B)	Tapers	Buffer/ Work Areas
0-35	200	200	70	245	280	35	40
40-45	350	500	150	540	400	40	80
50-55	500	1000	185	660	560	50	80
60-70	1000	SA - 1000 SB - 1500 SC - 2640	235	840	840	60	120

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

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PAUL JOSEPH KRONLAGE
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REGISTERED PROFESSIONAL ENGINEER
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DATE PREPARED 9/8/2021

ROUTE	STATE
I-44	MO
DISTRICT	SHEET NO.
CD	49

COUNTY: PHELPS-CRAWFORD
JOB NO.: J513397
CONTRACT ID.:
PROJECT NO.:
BRIDGE NO.:

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REV.	DATE	DESCRIPTION

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

TRAFFIC CONTROL
TYPICAL
SHOULDER CLOSURE WITH
REDUCED LANE WIDTH ON
DIVIDED HIGHWAY
SHEET 5 OF 17

TA-33 - STATIONARY LANE CLOSURE ON A DIVIDED HIGHWAY - DE/CM

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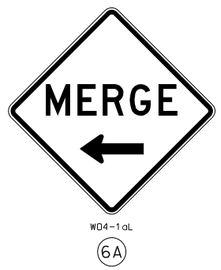
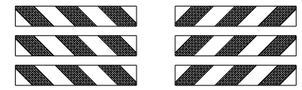


ADVANCE WARNING RAIL SYSTEM (AWRS)



SPEED	SIGN SPACING (ft.)		TAPER LENGTH (ft.)		OPTIONAL	CHANNELIZER SPACING (ft.)	
Normal Posted (mph)	Undivided (S)	Divided (S)	Shoulder (1) (T1)	Lane (2) (T2)	BUFFER LENGTH (ft.) (B)	Tapers	Buffer/ Work Areas
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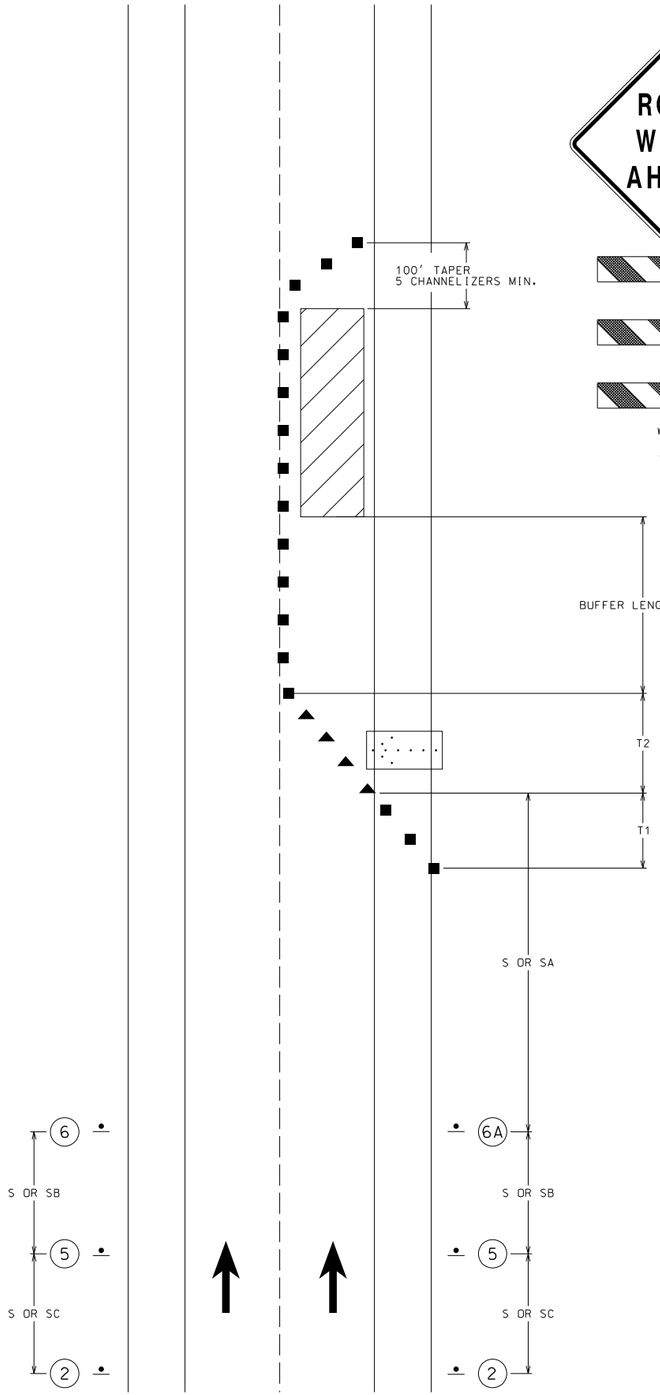
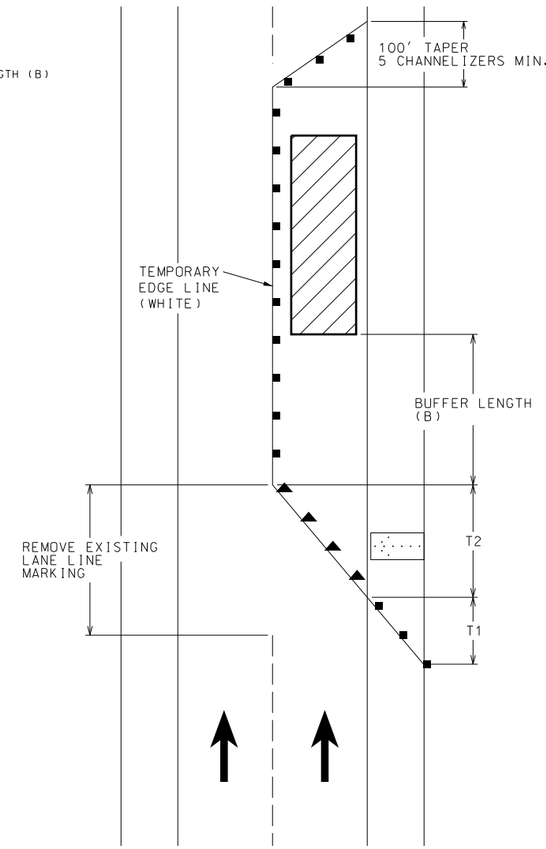
40-45	-	500	150	540	400	40	80
50-55	-	1000	185	660	560	50	80
60-70	-	SA - 1000 SB - 1500 SC - 2640	235	840	840	60	120

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



NOT TO SCALE



TEMPORARY PAVEMENT MARKING GUIDELINES

TRAFFIC CONTROL LEGEND

- SIGN (SINGLE SIDED)
- ADVANCED WARNING RAIL SYSTEM
- CHANNELIZER (TRIM LINE)
- DIRECTIONAL INDICATOR BARRICADE
- FLASHING ARROW PANEL
- TRUCK MOUNTED ATTENUATOR
- WORK ZONE
- IMPACT ATTENUATOR (SAND BARREL ARRAY)
- BARRIER

NOTES:

SEE EPG 616.12 WORK ZONE SPEED LIMITS FOR SPEED LIMIT GUIDELINES.

TEMPORARY PAVEMENT MARKING REQUIRED WITH LONG TERM CLOSURES. REMOVE AND/OR MODIFY ANY EXISTING PAVEMENT MARKING AS NEEDED.

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

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

TEMPORARY TRAFFIC BARRIERS, IF USED, SHALL COMPLY WITH THE PROVISIONS IN EPG 616.6.85 TEMPORARY TRAFFIC BARRIER AND REVIEW EPG 616.8.34 (TA-34) LANE CLOSURE WITH A TEMPORARY TRAFFIC BARRIER.

REVIEW EPG 616.8.34a (TA-34a) LANE CLOSURE WITH WIDTH AND LANE RESTRICTIONS - DE/CM FOR A LANE CLOSURE WITH WIDTH RESTRICTION.

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

REVIEW EPG 616.6.83 WARNING LIGHTS WHEN SEQUENTIAL OR WARNING LIGHTS SHOULD BE USED ON NIGHTTIME OPERATIONS.

IF RUMBLE STRIPS ARE USED, REVIEW EPG 616.6.87 RUMBLE STRIPS.

FOR ADVANCE WARNING RAIL SYSTEM, REFER TO EPG 616.6.2.2 ADVANCE WARNING RAIL SYSTEM.

REVIEW EPG 616.6.63 CHANNELIZING DEVICES FOR DIFFERENT TYPES AND GUIDELINES FOR THE DEVICES.

TRAFFIC CONTROL
TYPICAL
SINGLE LANE CLOSURE ON
DIVIDED HIGHWAY
SHEET 6 OF 17

PAUL JOSEPH KRONLAGE NUMBER EN 023328
REGISTERED PROFESSIONAL ENGINEER
STATE OF MISSOURI
THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED 9/8/2021

ROUTE	STATE
I-44	MO
DISTRICT	SHEET NO.
CD	50

COUNTY: PHELPS-CRAWFORD
JOB NO.: J513397
CONTRACT ID.:
PROJECT NO.:
BRIDGE NO.:

DATE	DESCRIPTION

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)
MoDOT
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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NOTE:
SEE JSP FOR DETAILS OF LENGTH OF CLOSURE RESTRICTIONS.

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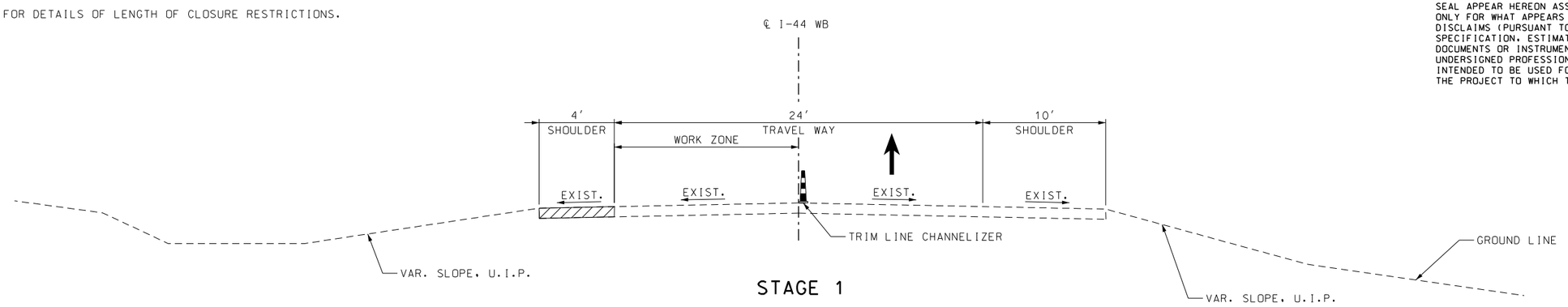
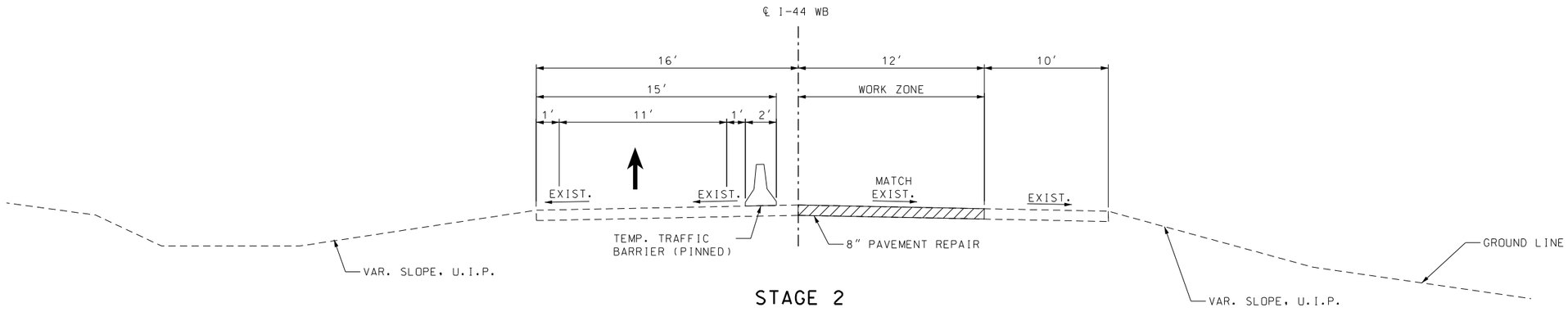


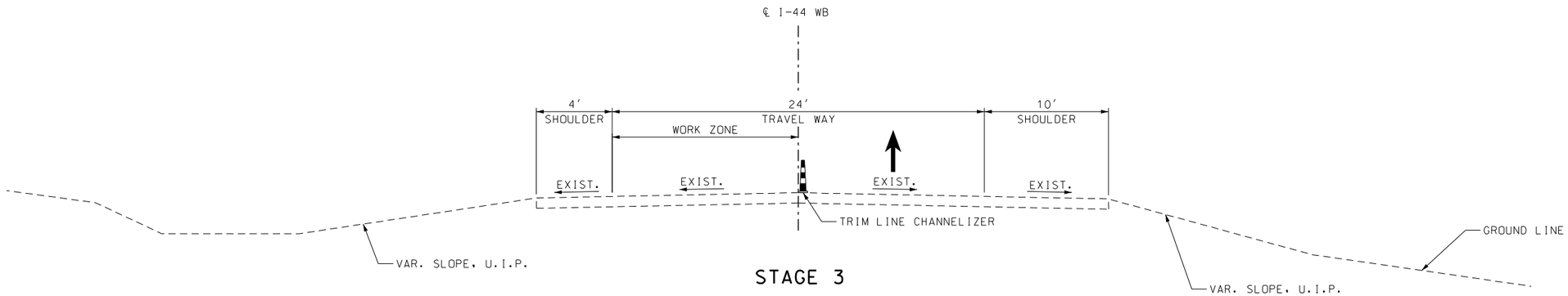
STAGE 1

CLOSE LEFT LANE
DRILL HOLES FOR PINNED BARRIER
CONSTRUCT NEW 4′ INSIDE SHOULDER



STAGE 2

CLOSE RIGHT LANE
PLACE PINNED BARRIER, SHIFT TRAFFIC
ONTO INSIDE SHOULDER
REPAIR UNBONDED OVERLAY



STAGE 3

CLOSE LEFT LANE
REMOVE BARRIER
REPAIR BARRIER PIN HOLES PER
STANDARD 617.20

NOT TO SCALE

TRAFFIC CONTROL
TYPICAL
UNBONDED OVERLAY
PAVEMENT REPAIR
SHEET 7 OF 17

STATE OF MISSOURI
PAUL JOSEPH KRONLAGE
NUMBER EN 023328
REGISTERED PROFESSIONAL ENGINEER
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DATE PREPARED
9/8/2021

ROUTE	STATE
I-44	MO
DISTRICT	SHEET NO.
CD	51

COUNTY
PHELPS-CRAWFORD

JOB NO.
J5I3397

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DATE	DESCRIPTION

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MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
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REV.

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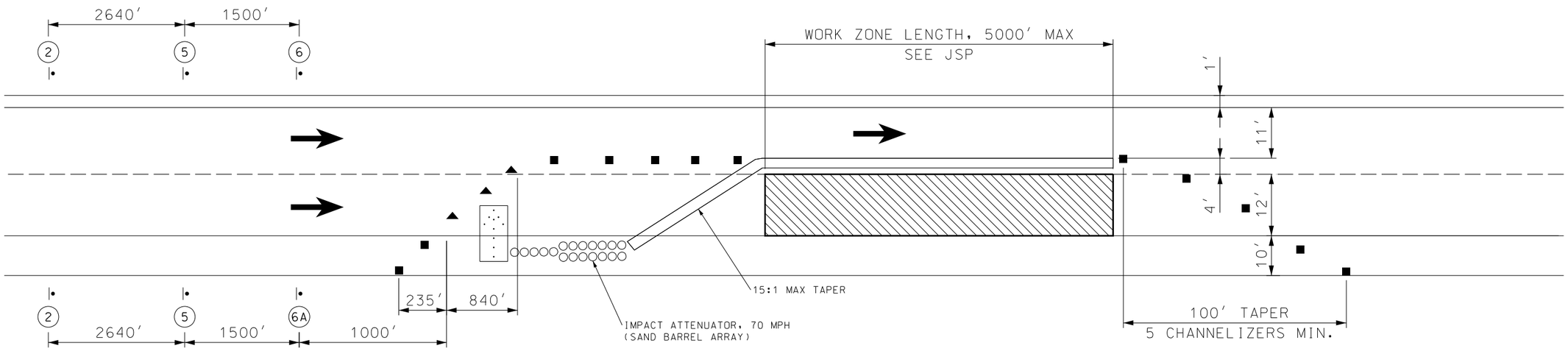


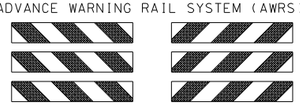
W020-1
2

W020-5
5

W04-1aL
6A

W020-6a
6

ADVANCE WARNING RAIL SYSTEM (AWRS)



TRAFFIC CONTROL LEGEND

- SIGN (SINGLE SIDED)
- ADVANCED WARNING RAIL SYSTEM
- CHANNELIZER (TRIM LINE)
- DIRECTIONAL INDICATOR BARRICADE
- FLASHING ARROW PANEL
- TRUCK MOUNTED ATTENUATOR
- WORK ZONE
- IMPACT ATTENUATOR (SAND BARREL ARRAY)
- BARRIER

NOT TO SCALE

TRAFFIC CONTROL TYPICAL
LANE CLOSURE W/ BARRIER
FOR UNBONDED OVERLAY
PAVEMENT REPAIR
SHEET 8 OF 17

STATE OF MISSOURI
PAUL JOSEPH KRONLAGE
NUMBER EN 023328
REGISTERED PROFESSIONAL ENGINEER
THIS SHEET WAS SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED
9/8/2021

ROUTE	STATE
I-44	MO
DISTRICT	SHEET NO.
CD	52

COUNTY
PHELPS-CRAWFORD

JOB NO.
J5I3397

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DATE	DESCRIPTION	REV.

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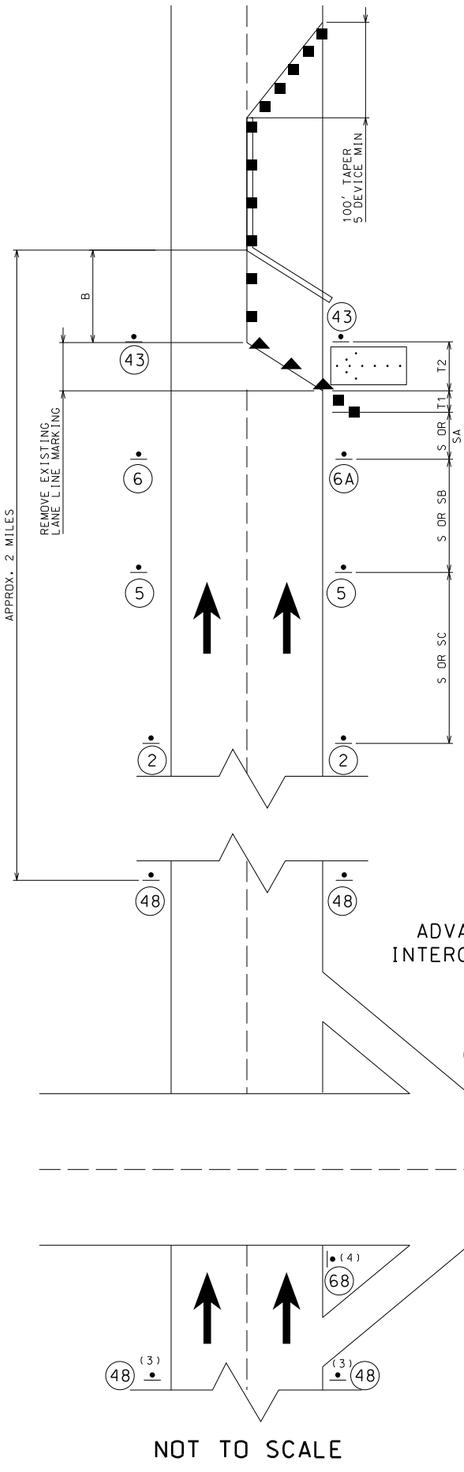
Missouri Certificate of Authority: 001578

Z:\21040 I-44 HRGREEN\DGN\Design\Final\Plotsheets\052_TC_08_J5I3397_i1_STAGE2.dgn 4:46:29 PM 9/8/2021

TA-34A - LANE CLOSURE WITH WIDTH AND LANE RESTRICTIONS - DE/CM



ADVANCE INTERCHANGE

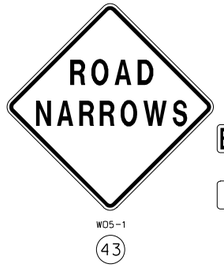
ADVANCE INTERSECTION

NOT TO SCALE

BRIDGE OR RAMP

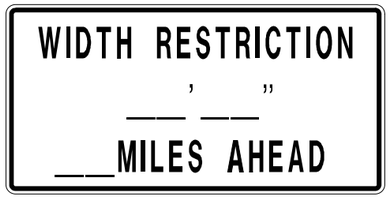
CENTER LANE OR LEFT LANE

CENTER OR LEFT



BRIDGE OR RAMP

OR



SPECIAL SIGNS

	SIGN SPACING (ft.)		TAPER LENGTH (ft.)	SPEED	OPTIONAL	CHANNELIZER SPACING (ft.)	
Normal Posted (mph)	Undivided (S)	Divided (S)	Shoulder (1) (T1)	Lane (2) (T2)	BUFFER LENGTH (ft.) (B)	Tapers	Buffer/ Work Areas
0-35	-	200	70	245	280	35	40
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TRAFFIC CONTROL LEGEND

- SIGN (SINGLE SIDED)
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- CHANNELIZER (TRIM LINE)
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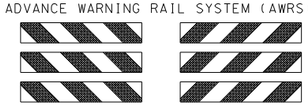
- BARRIER

ADVANCE WARNING RAIL SYSTEM (AWRS)



NOTES:

SEE EPG 616.12 WORK ZONE SPEED LIMITS FOR SPEED LIMIT GUIDELINES.

REVIEW 616.8.33 (TA-33) STATIONARY LANE CLOSURE ON A DIVIDED HIGHWAY AND 616.8.34 (TA-34) LANE CLOSURE WITH A TEMPORARY TRAFFIC BARRIER FOR LANE CLOSURE GUIDELINES.

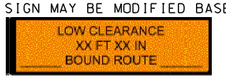
A CMS AND/OR ALTERNATE ROUTE SIGNING SHOULD BE USED IN ADDITION TO THIS SIGNING.

WIDTH RESTRICTION OR LOW CLEARANCE SIGN MAY BE USED WITH OTHER TRAFFIC CONTROL SITUATIONS RESULTING IN A WIDTH RESTRICTION.

WIDTH RESTRICTION SHOWN ON SIGNS ARE EQUAL TO THE ACTUAL PAVEMENT WIDTH AT THE RESTRICTION.

(3) SIGN INSTALLED A MINIMUM OF 1000' IN ADVANCE OF THE LAST INTERCHANGE EXIT RAMP. INTERSECTION OR POINT WHERE A DETOUR OR TURN AROUND IS PROVIDED BEFORE THE CLEARANCE RESTRICTION WHEN AN EXIT IS UNAVAILABLE AT THE WORK LOCATION. SIGN PLACEMENT MAY DEPEND ON GEOMETRY AND LOCATION OF EXISTING SIGNS.

(4) SIGN MAY BE MODIFIED BASED ON GEOMETRICS.



(5) FLARE BARRIER TO EXTEND BEYOND CLEAR ZONE OR FLARE BARRIER TO EDGE LINE APPROVED END TREATMENT.

TRAFFIC CONTROL
TYPICAL
SINGLE LANE CLOSURE
WITH BARRIER ON
DIVIDED HIGHWAY
SHEET 9 OF 17

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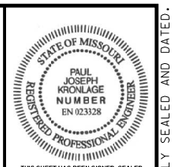

DATE PREPARED 9/8/2021

ROUTE	STATE
I-44	MO
DISTRICT	SHEET NO.
CD	53

COUNTY: PHELPS-CRAWFORD
JOB NO.: J5I3397
CONTRACT ID.:
PROJECT NO.:
BRIDGE NO.:

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

DESCRIPTION | DATE | REV.

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

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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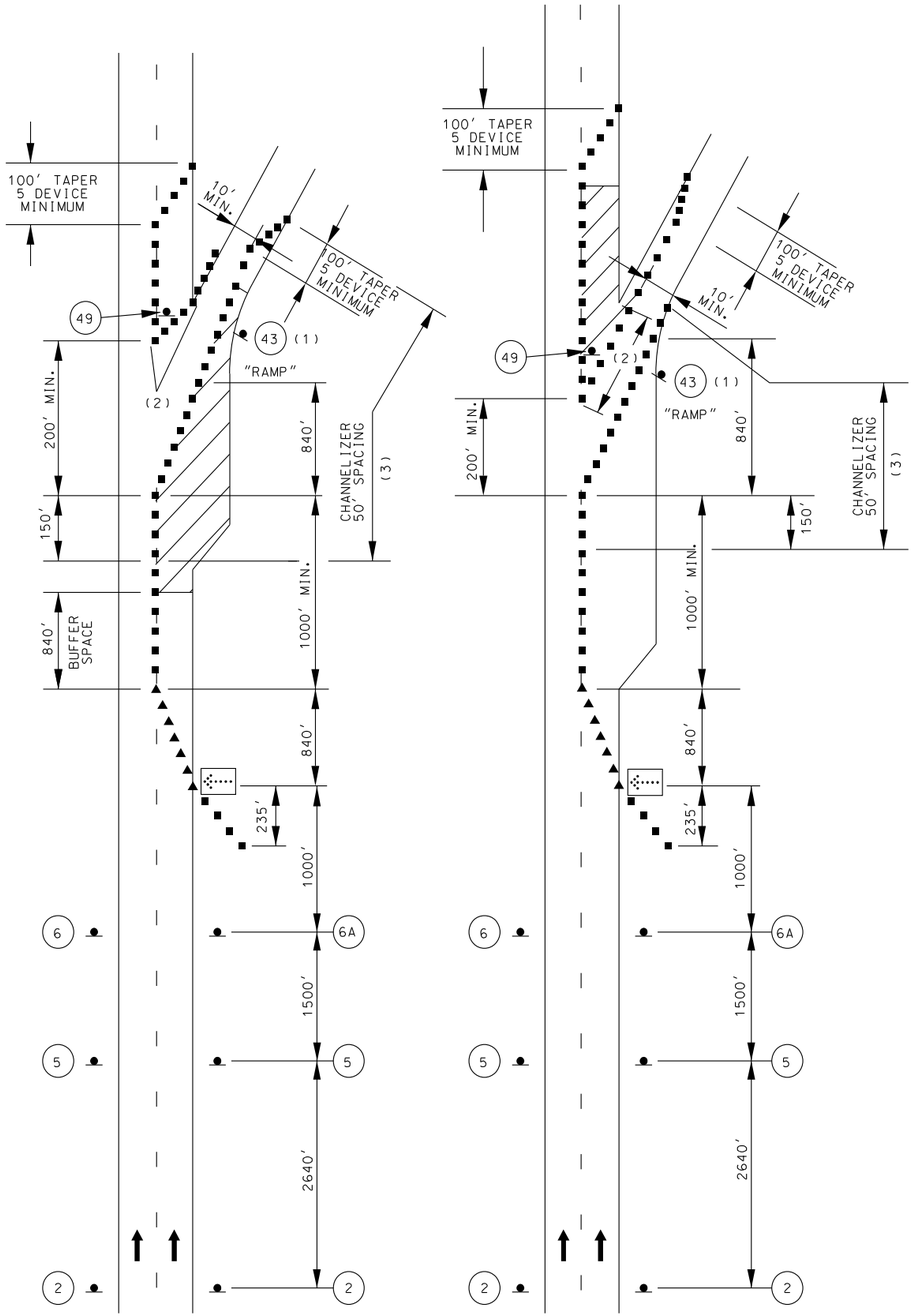
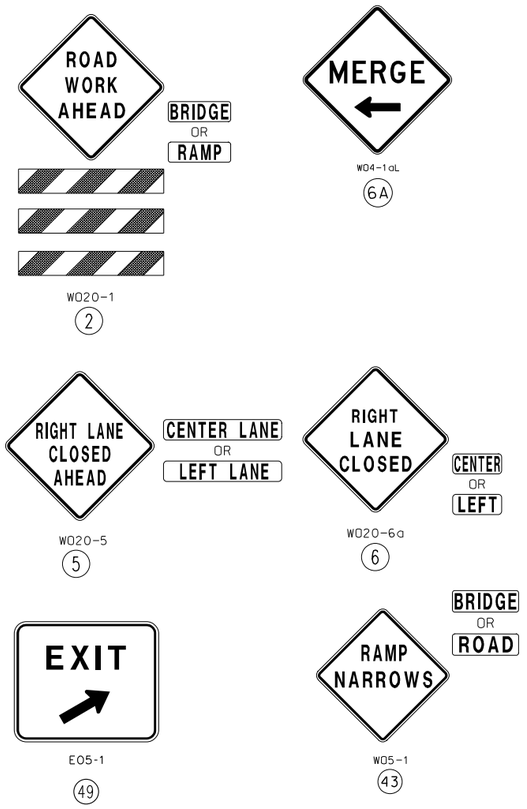
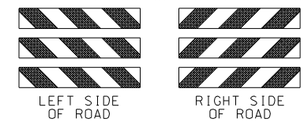


LANE CLOSURE EXIT RAMP AREAS



ADVANCE WARNING RAIL SYSTEM (AWRS)



TRAFFIC CONTROL LEGEND

- SIGN (SINGLE SIDED)
- ADVANCED WARNING RAIL SYSTEM
- CHANNELIZER (TRIM LINE)
- DIRECTIONAL INDICATOR BARRICADE
- FLASHING ARROW PANEL
- TRUCK MOUNTED ATTENUATOR
- WORK ZONE
- IMPACT ATTENUATOR (SAND BARREL ARRAY)
- BARRIER

GENERAL TCP NOTES:
DISTANCE BETWEEN SIGNS MAY BE ADJUSTED ACCORDING TO FIELD CONDITIONS. WHERE TRAFFIC BACKUPS ARE EXPECTED BEYOND THE ADVANCE WARNING AREA, ADDITIONAL SIGNING MAY BE NEEDED AS DIRECTED BY THE ENGINEER.
ALL EXISTING SIGNS THAT CONFLICT WITH THE PROPOSED TCP SHALL BE COVERED, NO DIRECT PAY.
NO DIRECT PAYMENT FOR RELOCATION OF TCP SIGNS.
ALL WARNING SIGNS SHALL HAVE FLUORESCENT SHEETING.
SEE BEGIN/END OF PROJECT SIGNING SHEET FOR ADDITIONAL SIGNS.

(1) SIGN (43) REQUIRED WHEN RAMP WIDTH IS REDUCED.
(2) FIVE DEVICE MINIMUM.
(3) FOR WORK ZONES WHERE DEVICES ARE IN PLACE OVERNIGHT, USE TRIM-LINE CHANNELIZERS.

NOT TO SCALE

TRAFFIC CONTROL
TYPICAL
WORK AT
EXIT RAMP
SHEET 10 OF 17

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
PAUL JOSEPH KRONLAGE
NUMBER EN 023328
REGISTERED PROFESSIONAL ENGINEER
THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED 9/8/2021
ROUTE I-44 | STATE MO
DISTRICT CD | SHEET NO. 54
COUNTY PHELPS-CRAWFORD
JOB NO. J513397
CONTRACT ID.
PROJECT NO.
BRIDGE NO.

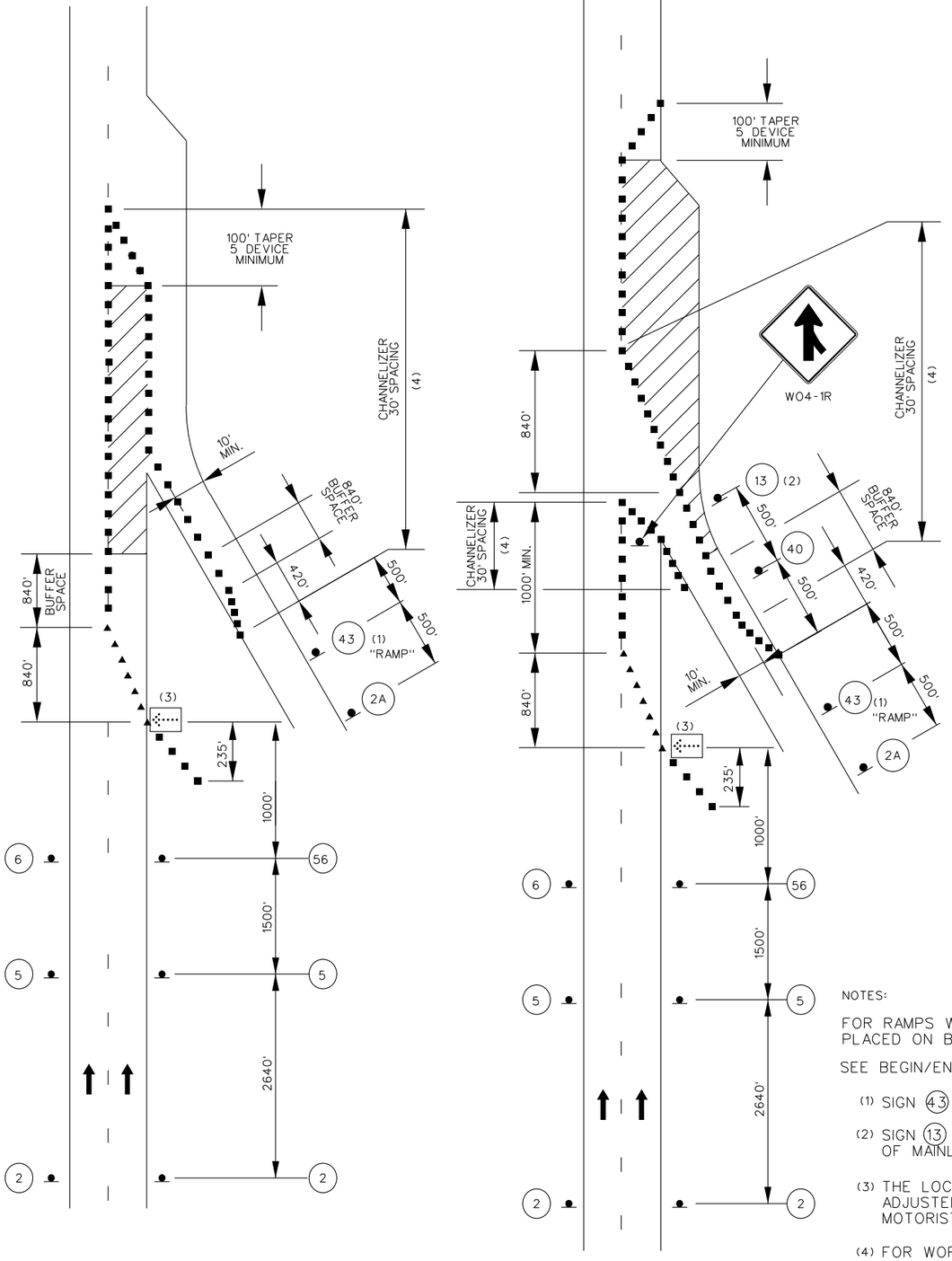
DATE	DESCRIPTION

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

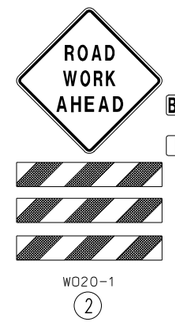
MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)
MoDOT

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

REV.



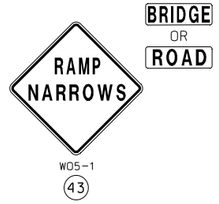
LANE CLOSURE ENTRANCE RAMP AREAS



WO20-1
(2)

WO4-1aL
(56)

WO20-1
(2A)



WO5-1
(43)

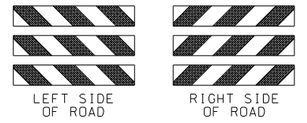
WO20-5
(5)

WO20-6a
(6)

R1-2
(13)

WO3-2a
(40)

ADVANCE WARNING RAIL SYSTEM (AWRS)



LEFT SIDE
OF ROAD

RIGHT SIDE
OF ROAD

TRAFFIC CONTROL LEGEND

- SIGN (SINGLE SIDED)
- ADVANCED WARNING RAIL SYSTEM
- CHANNELIZER (TRIM LINE)
- DIRECTIONAL INDICATOR BARRICADE
- FLASHING ARROW PANEL
- TRUCK MOUNTED ATTENUATOR
- WORK ZONE
- IMPACT ATTENUATOR (SAND BARREL ARRAY)
- BARRIER

NOTES:

FOR RAMPS WITH SHARP CURVES OR MULTIPLE LANES, RAMP SIGNS MAY BE PLACED ON BOTH SIDES OF THE RAMP.

SEE BEGIN/END OF PROJECT SIGNING SHEET FOR ADDITIONAL SIGNS.

(1) SIGN (43) REQUIRED WHEN RAMP WIDTH IS REDUCED.

(2) SIGN (13) SHOULD BE PLACED ON THE RAMP TO PROVIDE ADEQUATE VISIBILITY OF MAINLINE TRAFFIC.

(3) THE LOCATION OF THE SIGN SEQUENCE AND MERGE TAPER SHOULD BE ADJUSTED SO THAT THE ARROW PANEL LOCATION IS NOT CONFUSING TO MOTORISTS ON THE RAMP.

(4) FOR WORK ZONES WHERE DEVICES ARE IN PLACE OVERNIGHT, USE TRIM-LINE CHANNELIZERS.

NOT TO SCALE

TRAFFIC CONTROL
TYPICAL
WORK AT
ENTRANCE RAMP
SHEET 11 OF 17

DISCLAIMER
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STATE OF MISSOURI
PAUL JOSEPH KRONLAGE
NUMBER EN 023328
REGISTERED PROFESSIONAL ENGINEER
THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED 9/8/2021

ROUTE	STATE
I-44	MO
DISTRICT	SHEET NO.
CD	55

COUNTY: PHELPS-CRAWFORD
JOB NO.: J5I3397
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

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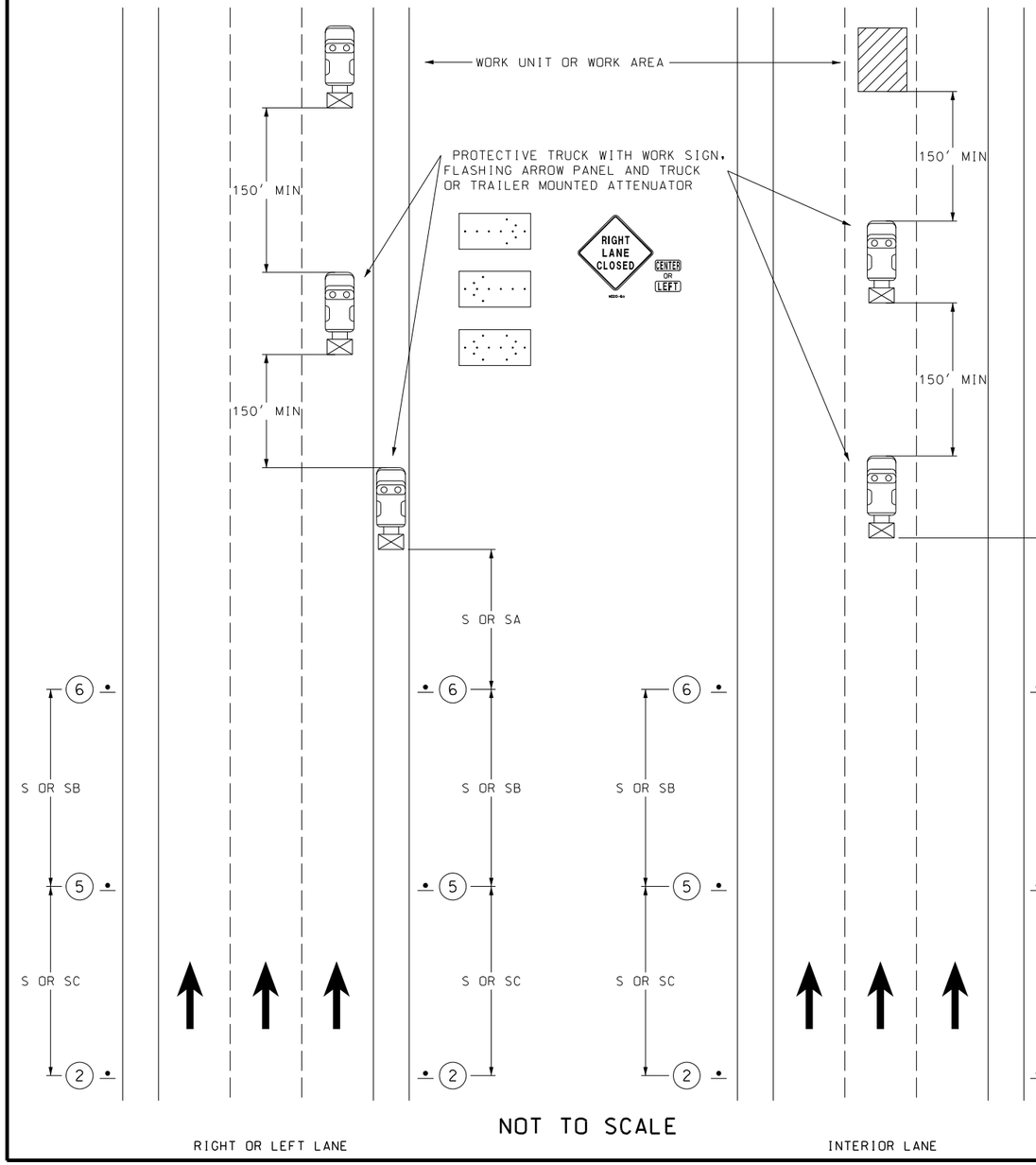
TA-35 - MOBILE OPERATION ON DIVIDED OR MULTI-LANE HIGHWAYS - DE/CM

SPEED	SIGN SPACING (ft.)		TAPER LENGTH (ft.)		OPTIONAL	CHANNELIZER SPACING (ft.)	
Normal Posted (mph)	Undivided (S)	Divided (S)	Shoulder (1) (T1)	Lane (2) (T2)	BUFFER LENGTH (ft.) (B)	Tapers	Buffer/ Work Areas
0-35	-	200	-	-	-	-	-
40-45	-	500	-	-	-	-	-
50-55	-	1000	-	-	-	-	-
60-70	SA - 1000 SB - 1500 SC - 2640		-	-	-	-	-

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



NOT TO SCALE

BRIDGE OR RAMP

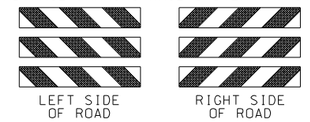
CENTER LANE OR LEFT LANE

CENTER OR LEFT

TRAFFIC CONTROL LEGEND

- SIGN (SINGLE SIDED)
- ADVANCED WARNING RAIL SYSTEM
- CHANNELIZER (TRIM LINE)
- DIRECTIONAL INDICATOR BARRICADE
- FLASHING ARROW PANEL
- TRUCK MOUNTED ATTENUATOR
- WORK ZONE
- IMPACT ATTENUATOR (SAND BARREL ARRAY)
- BARRIER

ADVANCE WARNING RAIL SYSTEM (AWRS)



NOTES:

SEE EPG 616.12 WORK ZONE SPEED LIMITS FOR SPEED LIMIT GUIDELINES.

UPON APPROVAL OF THE ENGINEER, THE CONTRACTOR MAY PROVIDE ADDITIONAL PROTECTIVE TRUCKS EQUIPPED WITH PROPER WARNING DEVICES.

PROTECTIVE TRUCK AND WORK VEHICLES SHALL DISPLAY HIGH-INTENSITY ROTATING, FLASHING, OSCILLATING, OR STROBE LIGHTS.

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

FLASHING ARROW PANELS SHALL, AS A MINIMUM, BE TYPE B, WITH A SIZE OF 60 X 30 INCHES.

VEHICLE-MOUNTED SIGNS SHALL BE MOUNTED IN A MANNER SUCH THAT THEY ARE NOT OBSCURED BY EQUIPMENT OR SUPPLIES. SIGN LEGENDS ON VEHICLE-MOUNTED SIGNS SHALL BE COVERED OR TURNED FROM VIEW WHEN WORK IS NOT IN PROGRESS.

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

TRAFFIC CONTROL
TYPICAL
MOVING OPERATION
SHEET 12 OF 17

DISCLAIMER
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STATE OF MISSOURI
PAUL JOSEPH KRONLAGE
NUMBER EN 023328
REGISTERED PROFESSIONAL ENGINEER
THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED 9/8/2021
ROUTE I-44 | STATE MO
DISTRICT CD | SHEET NO. 56
COUNTY PHELPS-CRAWFORD
JOB NO. J5I3397
CONTRACT ID.
PROJECT NO.
BRIDGE NO.

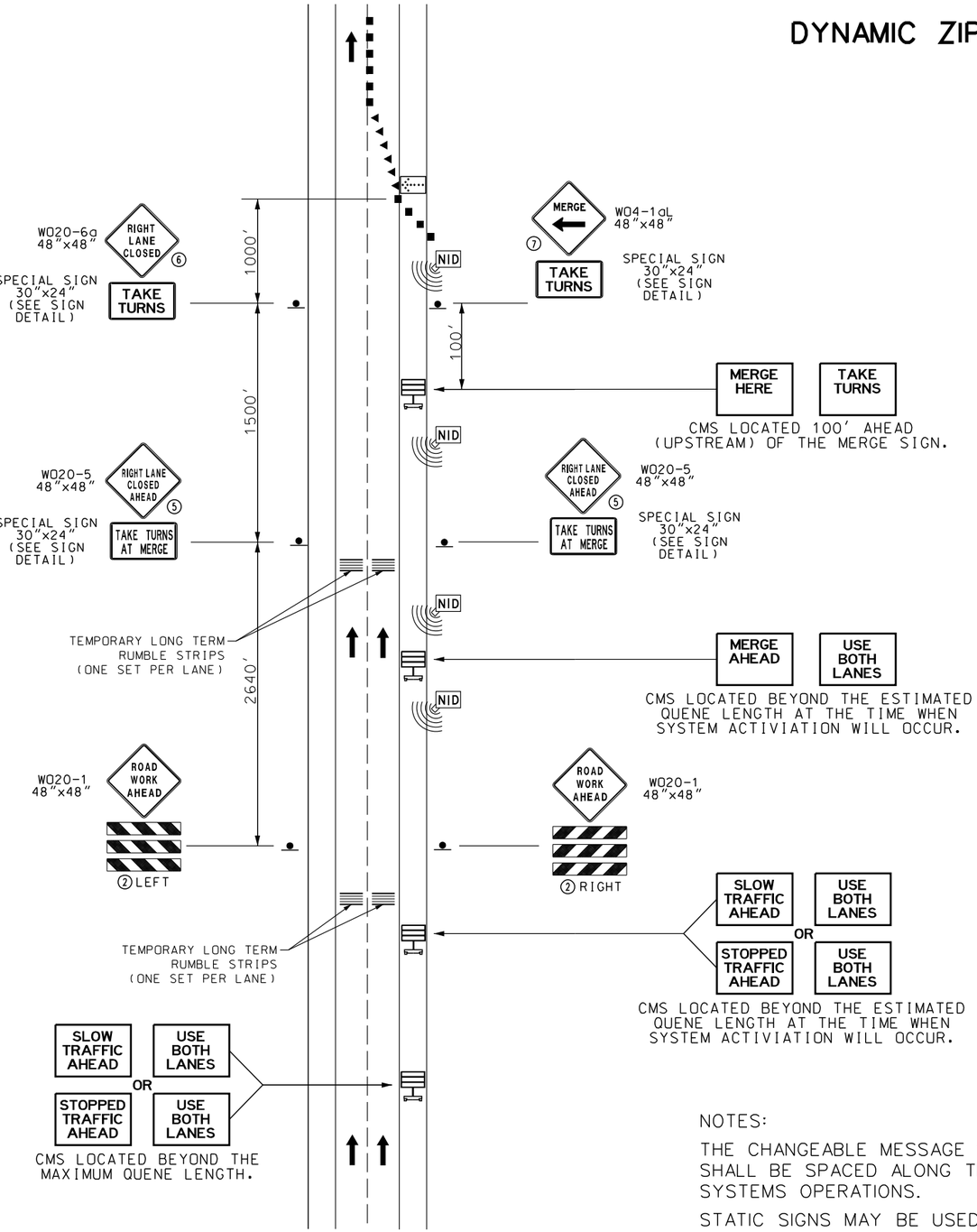
DATE	DESCRIPTION	REV.

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

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

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

DYNAMIC ZIPPER MERGE SYSTEM



(63) **TAKE TURNS** — SPECIAL SIGN 30"x24" (SEE TRAFFIC CONTROL SHEET 14 OF 17 FOR SIGN DETAIL)

(62) **TAKE TURNS AT MERGE** — SPECIAL SIGN 30"x24" (SEE TRAFFIC CONTROL SHEET 14 OF 17 FOR SIGN DETAIL)

(61) **DURING BACKUPS USE BOTH LANES** / **TAKE TURNS AT MERGE** — SPECIAL SIGN 96"x48" (SEE TRAFFIC CONTROL SHEET 14 OF 17 FOR SIGN DETAIL)

TRAFFIC CONTROL LEGEND

- SIGN (SINGLE SIDED)
- ADVANCED WARNING RAIL SYSTEM
- CHANNELIZER (TRIM LINE)
- DIRECTIONAL INDICATOR BARRICADE
- CHANGEABLE MESSAGE SIGN
- FLASHING ARROW PANEL
- NID NON-INTRUSIVE DETECTOR
- TEMPORARY LONG TERM RUMBLE STRIPS - 5 STRIPS SPACED AT 10'-12' CENTERS OR MANUFACTURER'S RECOMMENDATION (WHICHER IS GREATER) (PER SET)

NOTES:

THE CHANGEABLE MESSAGE SIGNS AND NON-INTRUSIVE DETECTORS SHALL BE SPACED ALONG THE ROUTE AS NEEDED FOR PROPER SYSTEMS OPERATIONS.

STATIC SIGNS MAY BE USED AS A SUPPLEMENT FOR CMS BOARDS. THE STATIC SIGN PROVIDES A CONTINUOUS REINFORCING MESSAGE TO THE TRAVELING PUBLIC.

STATIC SIGNS MAY BE LOCATED BEYOND AND WITHIN THE ANTICIPATED QUEUE LENGTH.

NOT TO SCALE

TRAFFIC CONTROL
TYPICAL
ZIPPER MERGE
SHEET 13 OF 17

DISCLAIMER
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STATE OF MISSOURI
PAUL JOSEPH KRONLAGE
NUMBER EN 023328
REGISTERED PROFESSIONAL ENGINEER
THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED 9/9/2021

ROUTE	STATE
I-44	MO
DISTRICT	SHEET NO.
CD	57

COUNTY: PHELPS-CRAWFORD
JOB NO.: J5I3397
CONTRACT ID.:
PROJECT NO.:
BRIDGE NO.:

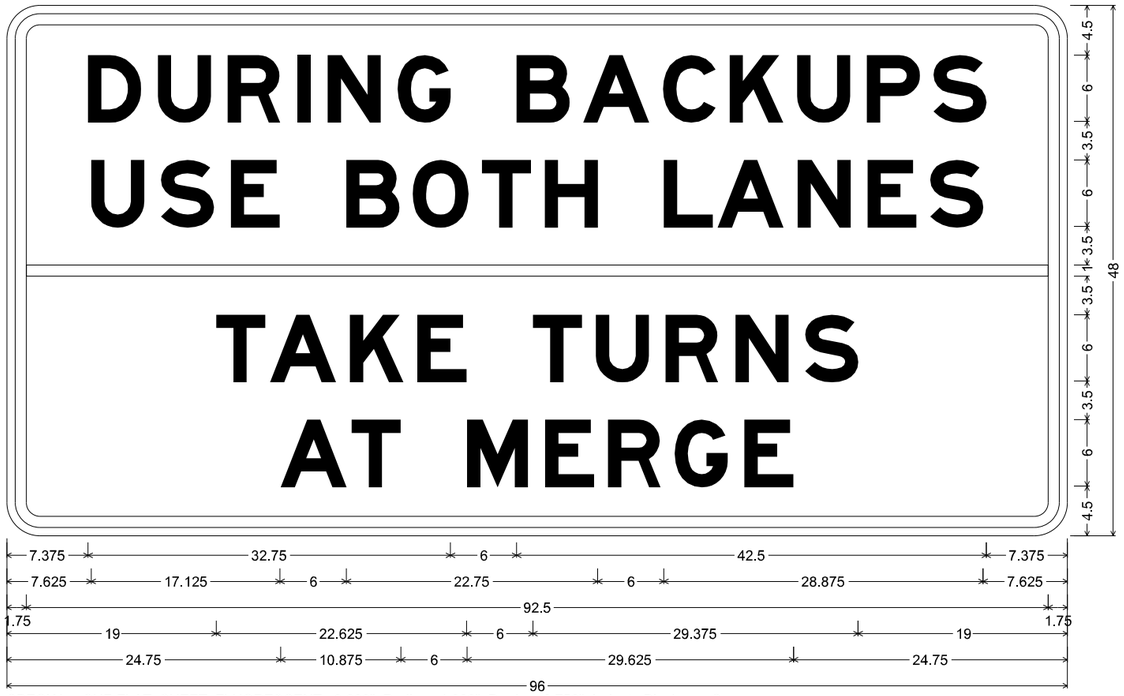
DATE	DESCRIPTION

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

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

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

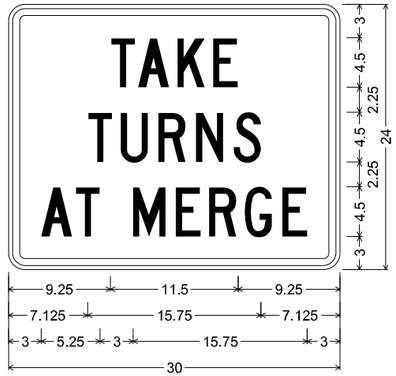
SIGN NO. 61



SPECIAL SHF-FLAT SHEET FLUORESCENT; 3.000" Radius, 1.000" Border, 0.750" Indent, Black on Orange;
[DURING BACKUPS] E Mod; [USE BOTH LANES] E Mod; [TAKE TURNS] E Mod; [AT MERGE] E Mod;
Table of letter and object lefts.

D 7.375	U 13.625	R 20.000	I 26.250	N 29.000	G 35.375	B 46.125	A 52.125	C 59.375	K 65.375	U 71.500	P 77.875	S 83.875	
U 7.625	S 14.000	E 20.250	B 30.750	O 36.750	T 43.000	H 48.750	L 59.500	A 64.375	N 71.625	E 77.875	S 83.625		
— 1.750													
T 19.000	A 23.875	K 31.000	E 37.125	T 47.625	U 53.250	R 59.625	N 66.000	S 72.250					
A 24.750	T 31.250	M 41.625	E 48.750	R 54.375	G 60.500	E 66.750							

SIGN NO. 62

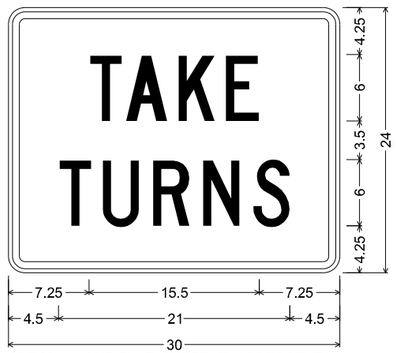


SPECIAL SHF-FLAT SHEET FLUORESCENT;
1.500" Radius, 0.625" Border, 0.375" Indent, Black on Orange;
[TAKE] C; [TURNS] C; [AT MERGE] C;
Table of letter and object lefts.

T 9.250	A 11.750	K 15.250	E 18.500	
T 7.125	U 10.125	R 13.625	N 17.000	S 20.375
A 3.000	T 6.000			

M 11.250	E 15.125	R 18.125	G 21.375	E 24.750

SIGN NO. 63



SPECIAL SHF-FLAT SHEET FLUORESCENT;
1.500" Radius, 0.625" Border, 0.375" Indent, Black on Orange;
[TAKE] C; [TURNS] C;
Table of letter and object lefts.

T 7.250	A 10.625	K 15.375	E 19.750	
T 4.500	U 8.500	R 13.125	N 17.625	S 22.125

NOT TO SCALE

TRAFFIC CONTROL
TYPICAL
SPECIAL SIGN DETAILS
FOR ZIPPER MERGE
SHEET 14 OF 17

DISCLAIMER
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STATE OF MISSOURI
PAUL JOSEPH KRONLAGE
NUMBER EN 023328
REGISTERED PROFESSIONAL ENGINEER
THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

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

DATE PREPARED
9/8/2021

ROUTE	STATE
I-44	MO
DISTRICT	SHEET NO.
CD	58

COUNTY
PHELPS-CRAWFORD

JOB NO.
J5I3397

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)

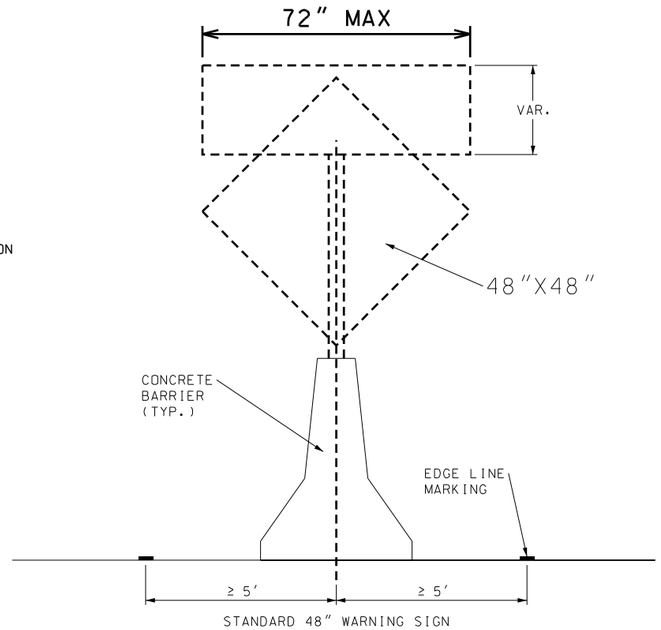
EFK•Moen
Civil Engineering Design
13523 Barrett Parkway Dr
Suite 250
St. Louis, MO 63021
Phone 314-394-3100
Fax 314-394-3199
Missouri Certificate of Authority: 001578

TA- 49 - SIGNS IN NARROW MEDIANS - DE/CM & MT

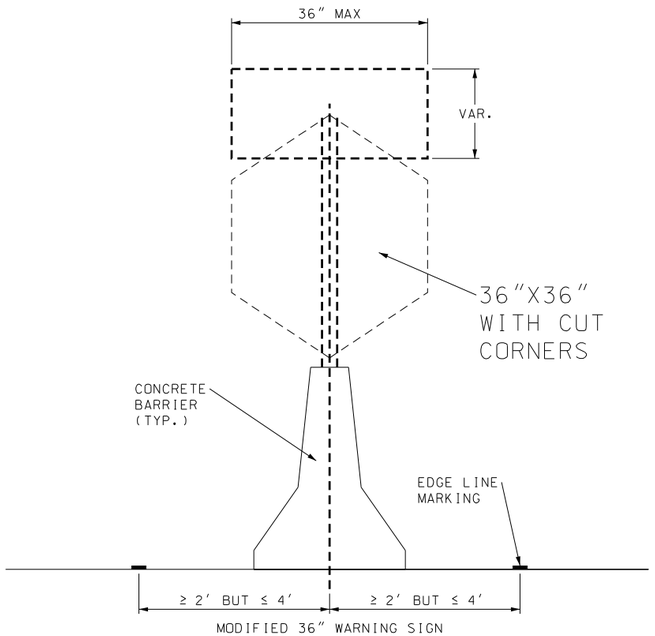
NOTES:

48" X 48" DIAMOND-SHAPED WARNING SIGNS SHALL BE USED WHENEVER POSSIBLE. RECTANGULAR SIGNS SHALL NOT BE USED IN LIEU OF DIAMOND-SHAPED WARNING SIGNS.

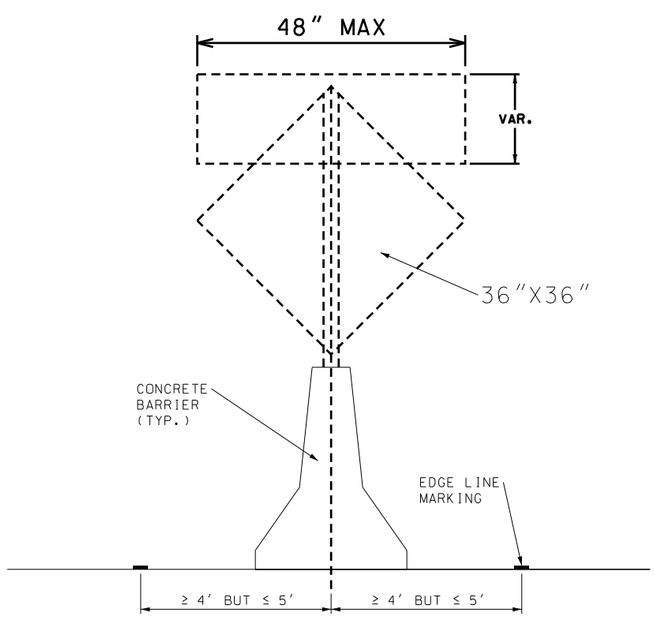
WHERE MODIFIED SIGNS ARE USED, THE LAYOUTS OF THE SIGNS SHALL BE SHOWN ON THE PLANS.



STANDARD 48" WARNING SIGN



MODIFIED 36" WARNING SIGN



STANDARD 36" WARNING SIGN

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STATE OF MISSOURI
PAUL JOSEPH KRONLAGE
NUMBER EN 023328
REGISTERED PROFESSIONAL ENGINEER
THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED: 9/8/2021
ROUTE: I-44 | STATE: MO
DISTRICT: CD | SHEET NO.: 59
COUNTY: PHELPS-CRAWFORD
JOB NO.: J5I3397
CONTRACT ID.:
PROJECT NO.:
BRIDGE NO.:

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

REV.	DESCRIPTION	DATE

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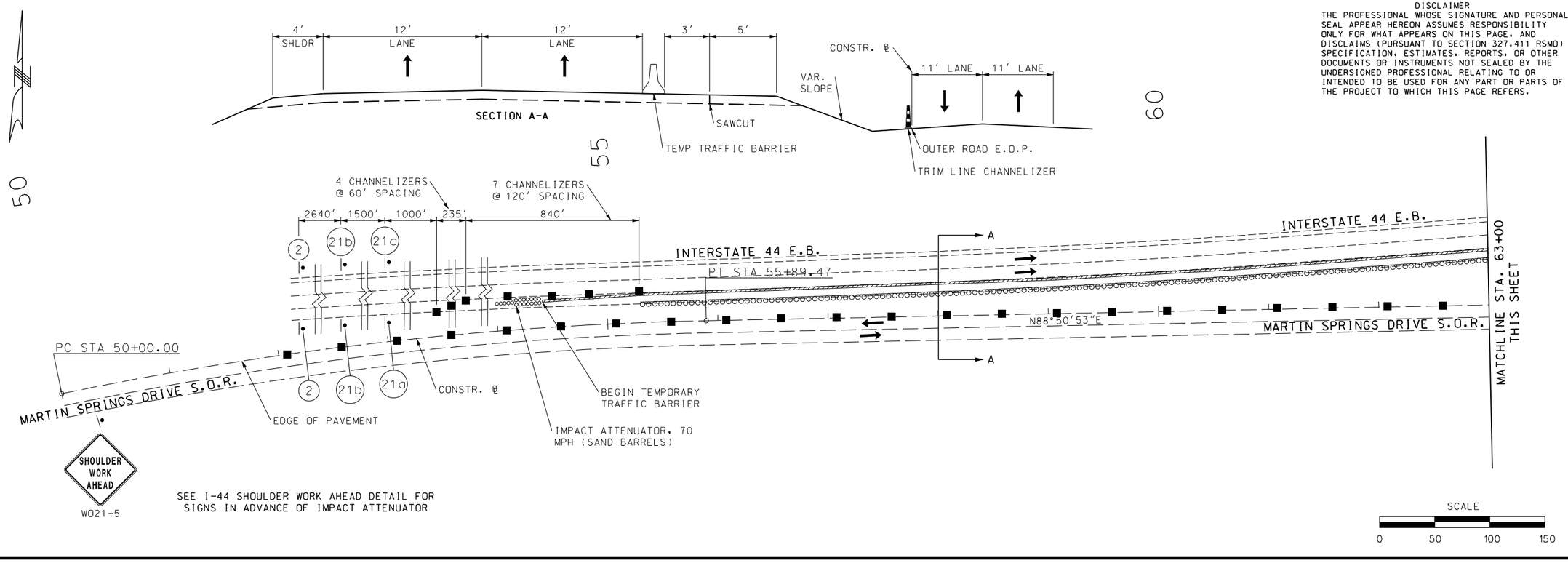
Missouri Certificate of Authority: 001578

TRAFFIC CONTROL
TYPICAL
MOUNTING SIGNS
ON BARRIER
SHEET 15 OF 17



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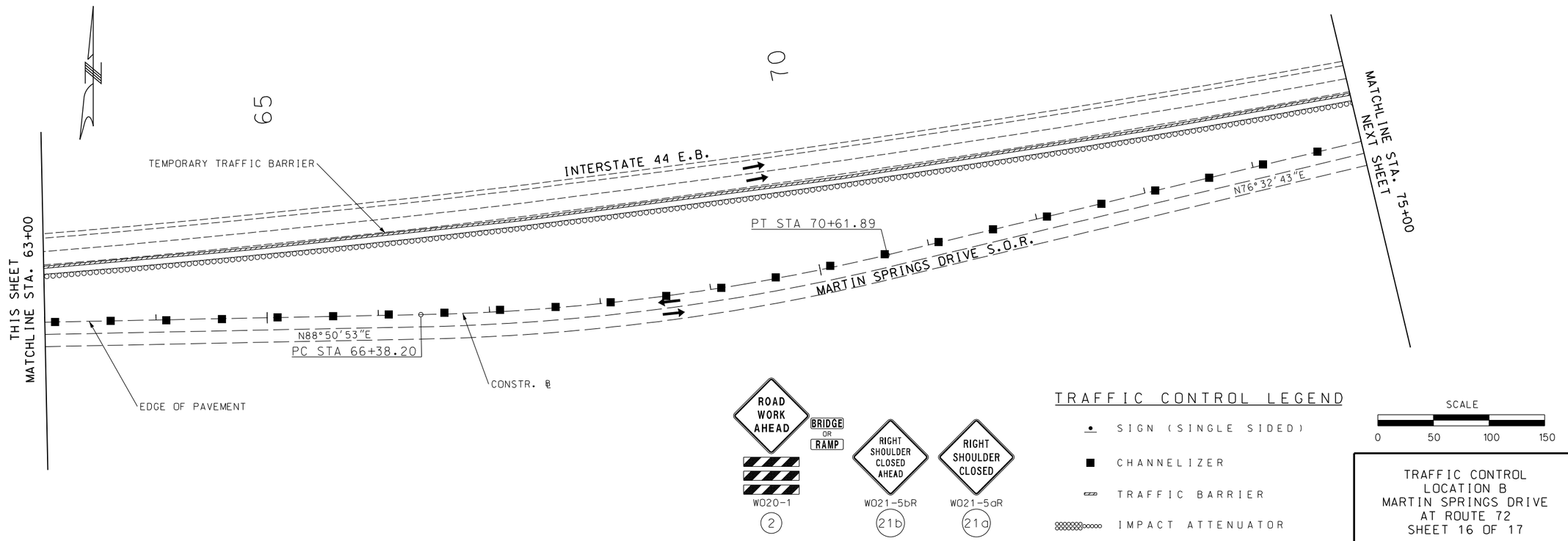

TRAFFIC CONTROL
LOCATION B
MARTIN SPRINGS DRIVE
AT ROUTE 72
SHEET 16 OF 17

STATE OF MISSOURI
PAUL JOSEPH KRONLAGE
NUMBER EN 823328
REGISTERED PROFESSIONAL ENGINEER
THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED
9/8/2021

ROUTE	STATE
I-44	MO
DISTRICT	SHEET NO.
CD	60

COUNTY
PHELPS-CRAWFORD

JOB NO.
J513397

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

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

REV.	DESCRIPTION	DATE

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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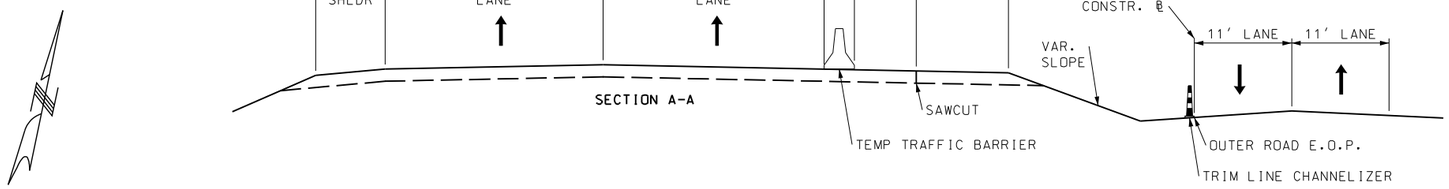

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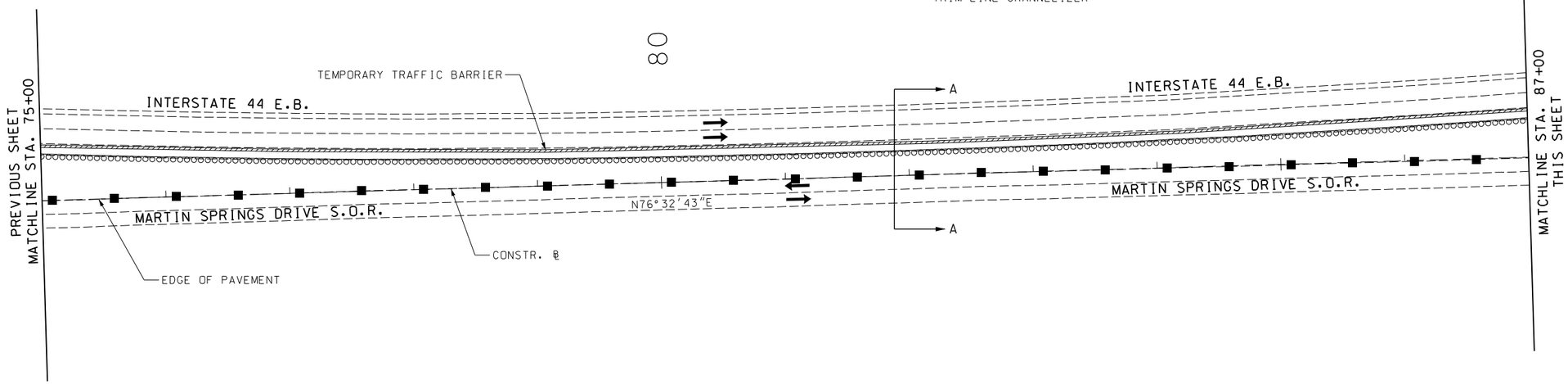

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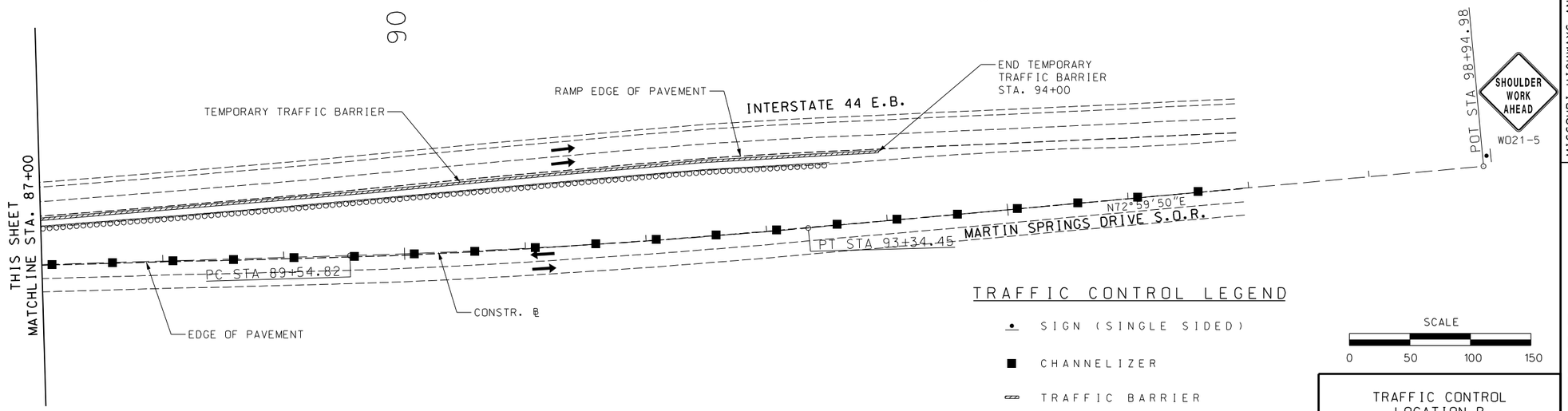
SCALE
0 50 100 150

90

95



TRAFFIC CONTROL LEGEND

- SIGN (SINGLE SIDED)
- CHANNELIZER
- TRAFFIC BARRIER
- IMPACT ATTENUATOR

SCALE
0 50 100 150

TRAFFIC CONTROL
LOCATION B
MARTIN SPRINGS DRIVE
AT ROUTE 72
SHEET 17 OF 17

STATE OF MISSOURI
PAUL JOSEPH KRONLAGE
NUMBER EN 023328
REGISTERED PROFESSIONAL ENGINEER
THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED 9/8/2021
ROUTE I-44 | STATE MO
DISTRICT CD | SHEET NO. 61
COUNTY PHELPS-CRAWFORD
JOB NO. J513397
CONTRACT ID.
PROJECT NO.
BRIDGE NO.

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

REV.	DESCRIPTION	DATE

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

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TEMPORARY EROSION CONTROL LEGEND

- (A) ALTERNATE DITCH CHECK
- (R) ROCK DITCH CHECK
- (S) SEDIMENT TRAP
- (C) INLET CHECK
- SILT FENCE
- 2D EROSION CONTROL BLANKET

SHEET QUANTITIES
TEMPORARY EROSION CONTROL

ALTERNATE DITCH CHECK - 40 LF
SILT FENCE - 65 LF
SEDIMENT REMOVAL - 4.7 CY

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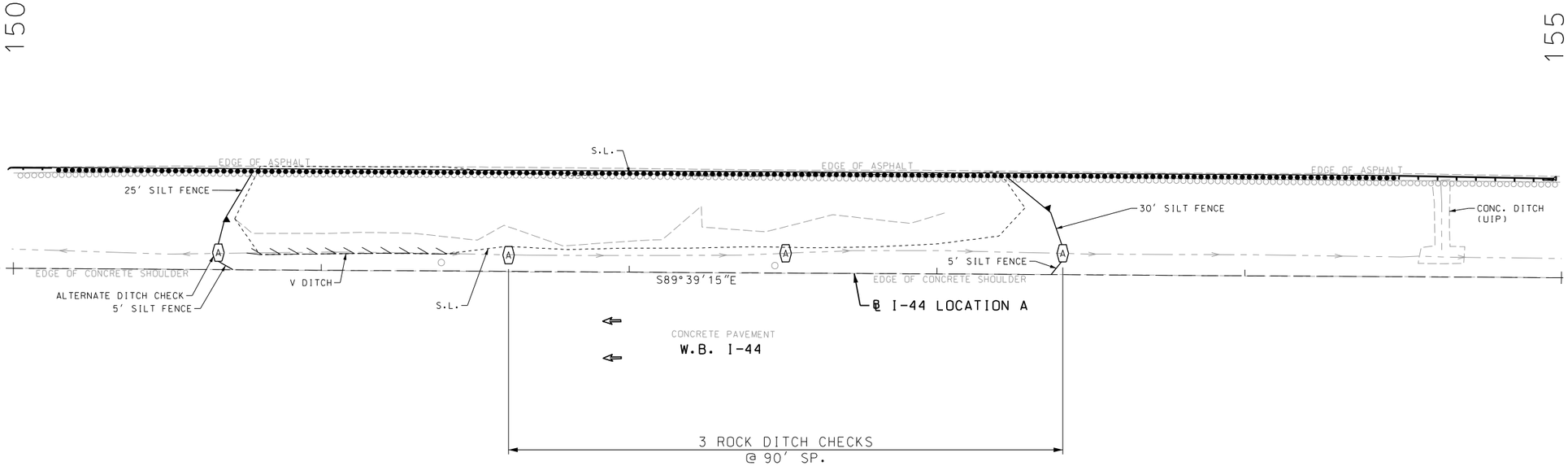

PRIMARY RECEIVING WATER - GASCONADE-OSAGE

SCALE
0 20 40 60

EROSION CONTROL PLAN
LOCATION A
WESTBOUND TRUCK STOP
SHEET 1 OF 4

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED: 9/8/2021
ROUTE: I-44 | STATE: MO
DISTRICT: CD | SHEET NO.: 62
COUNTY: PHELPS-CRAWFORD
JOB NO.: J5I3397
CONTRACT ID.:
PROJECT NO.:
BRIDGE NO.:

DESCRIPTION | DATE | REV.

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

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Fax 314-394-3199
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TEMPORARY EROSION CONTROL LEGEND

- (A) ALTERNATE DITCH CHECK
- (R) ROCK DITCH CHECK
- (S) SEDIMENT TRAP
- SILT FENCE

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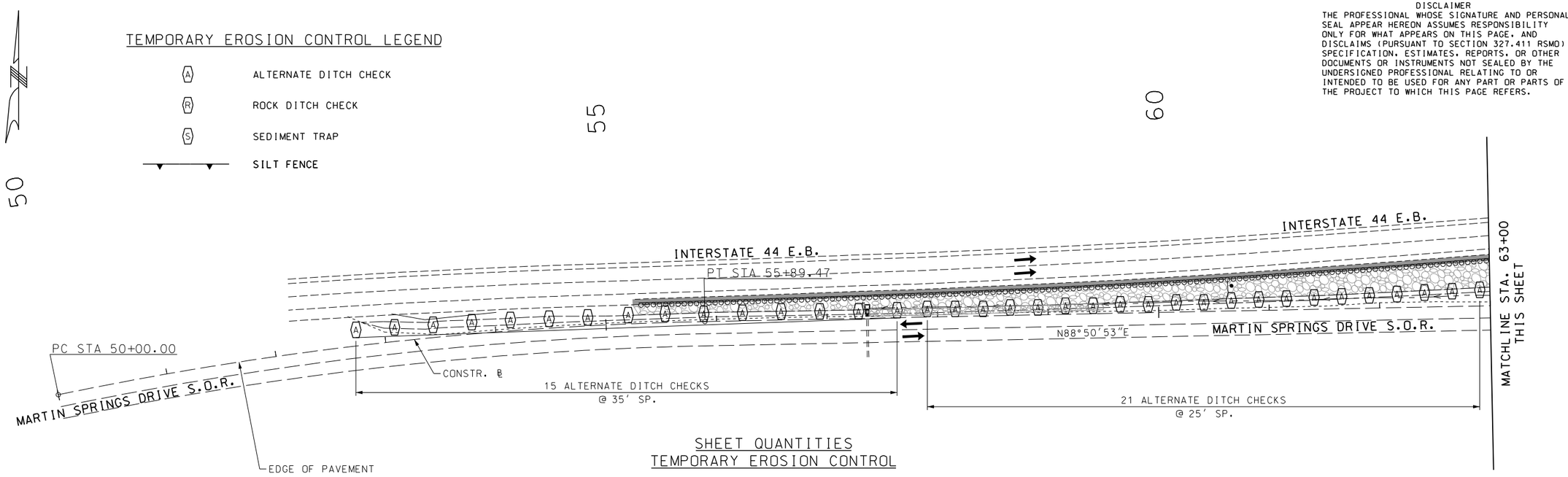
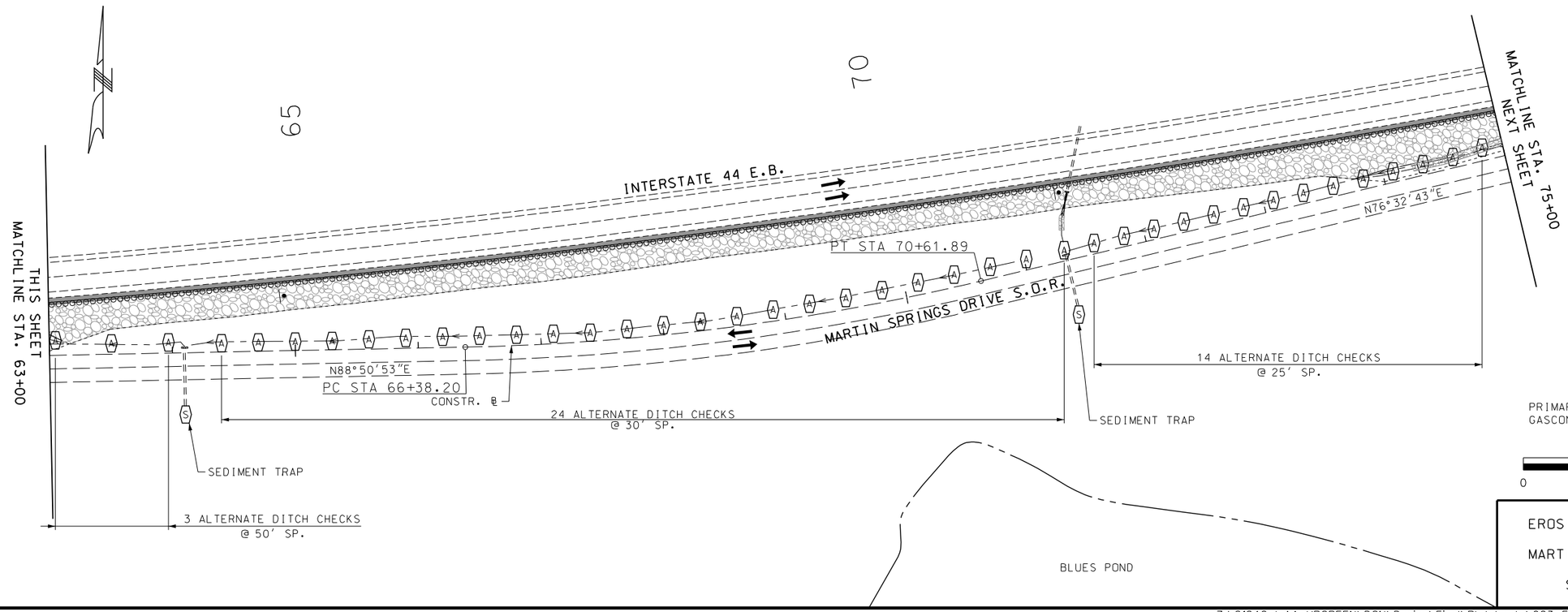


SHEET QUANTITIES
TEMPORARY EROSION CONTROL

ALTERNATE DITCH CHECK - 780 LF
SEDIMENT TRAP ROCK - 35 CY
SEDIMENT TRAP EXCAVATION - 25.9 CY
SEDIMENT REMOVAL - 87 CY

SCALE
0 50 100 150



PRIMARY RECEIVING WATER - GASCONADE-OSAGE

SCALE
0 50 100 150

EROSION CONTROL PLAN
LOCATION B
MARTIN SPRINGS DRIVE
AT ROUTE 72
SHEET 2 OF 4

STATE OF MISSOURI
PAUL JOSEPH KRONLAGE
NUMBER E-N 023328
REGISTERED PROFESSIONAL ENGINEER
THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED 9/8/2021
ROUTE I-44 | STATE MO
DISTRICT CD | SHEET NO. 63
COUNTY PHELPS-CRAWFORD
JOB NO. J513397
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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REV.

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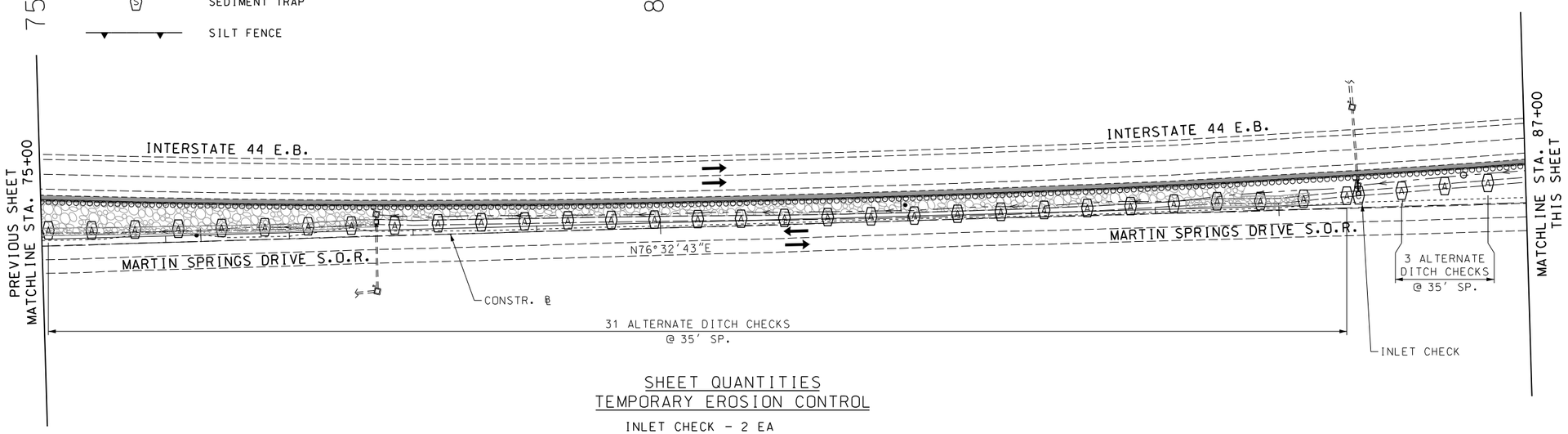
TEMPORARY EROSION CONTROL LEGEND

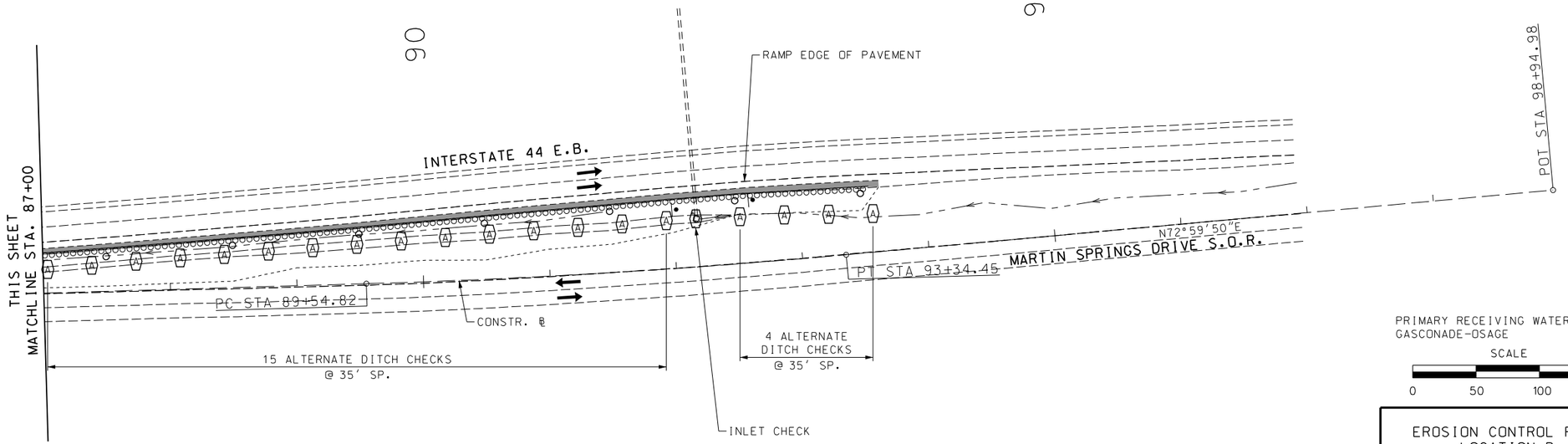
- (A) ALTERNATE DITCH CHECK
- (R) ROCK DITCH CHECK
- (S) SEDIMENT TRAP
- SILT FENCE



SHEET QUANTITIES
TEMPORARY EROSION CONTROL

INLET CHECK - 2 EA
ALTERNATE DITCH CHECK - 620 LF
SEDIMENT REMOVAL - 53 CY

SCALE
0 50 100 150



PRIMARY RECEIVING WATER -
GASCONADE-OSAGE

SCALE
0 50 100 150

EROSION CONTROL PLAN
LOCATION B
MARTIN SPRINGS DRIVE
AT ROUTE 72
SHEET 3 OF 4

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STATE OF MISSOURI
PAUL JOSEPH KRONLAGE
NUMBER EN 023328
REGISTERED PROFESSIONAL ENGINEER
THIS SHEET WAS SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED
9/8/2021

ROUTE	STATE
I-44	MO
DISTRICT	SHEET NO.
CD	64

COUNTY
PHELPS-CRAWFORD

JOB NO.
J513397

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DESCRIPTION	DATE

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MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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St. Louis, MO 63021
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TEMPORARY EROSION CONTROL LEGEND

- (A) ALTERNATE DITCH CHECK
- (R) ROCK DITCH CHECK
- (S) SEDIMENT TRAP
- (C) INLET CHECK
- SILT FENCE
- 2D EROSION CONTROL BLANKET

SHEET QUANTITIES
TEMPORARY EROSION CONTROL

ROCK DITCH CHECK - 225 LF
SEDIMENT REMOVAL - 17.0 CY

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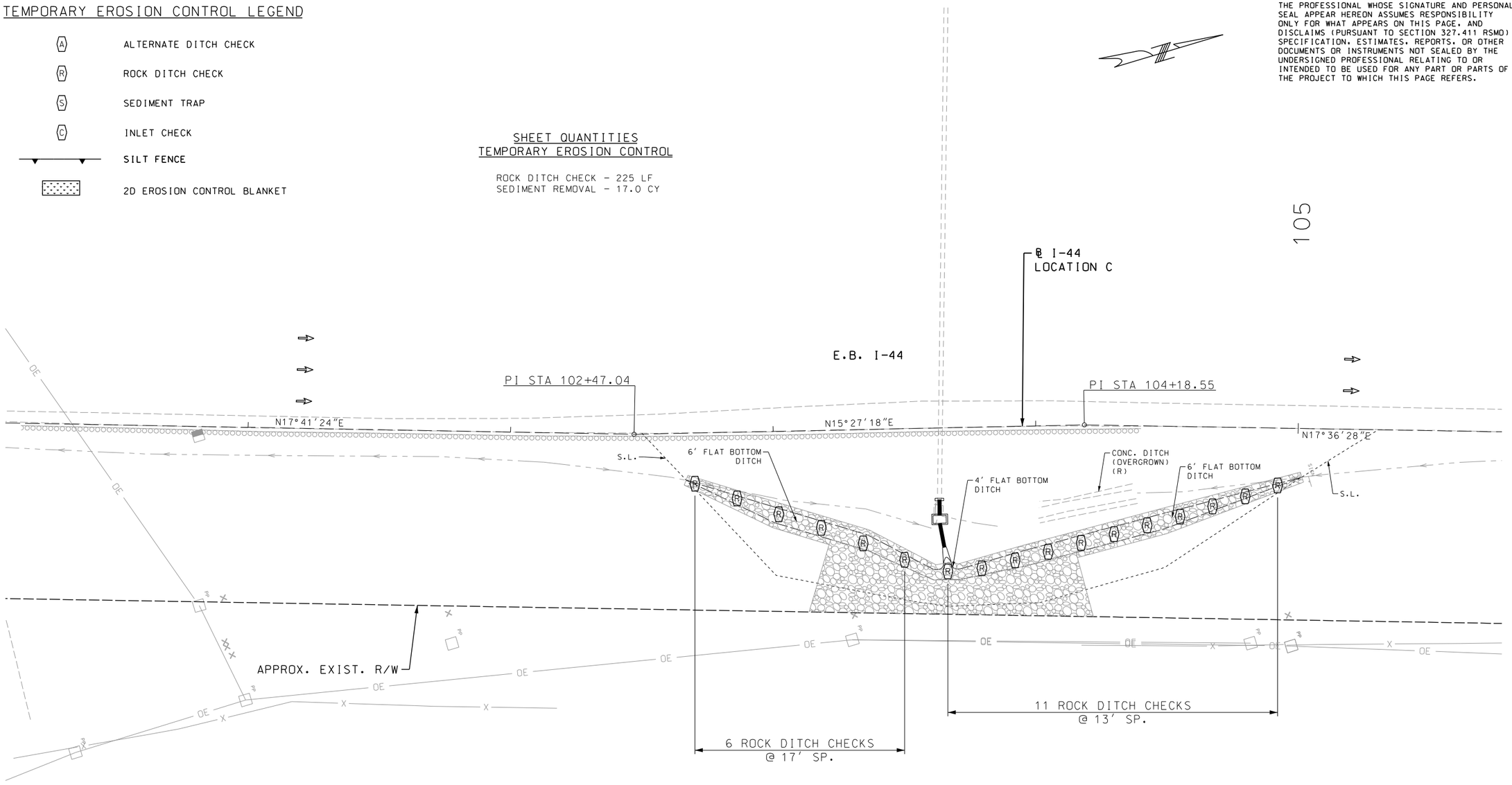
105



PRIMARY RECEIVING WATER - GASCONADE-OSAGE

SCALE
0 20 40 60

EROSION CONTROL PLAN
LOCATION C
ROUTE 72 EASTBOUND
ON-RAMP
SHEET 4 OF 4

STATE OF MISSOURI
PAUL JOSEPH KRONLAGE
NUMBER E-N 023328
REGISTERED PROFESSIONAL ENGINEER
THIS SHEET WAS SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED: 9/8/2021
ROUTE: I-44 | STATE: MO
DISTRICT: CD | SHEET NO.: 65
COUNTY: PHELPS-CRAWFORD
JOB NO.: J5I3397
CONTRACT ID.:
PROJECT NO.:
BRIDGE NO.:

REV.	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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Civil Engineering Design
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Suite 250
St. Louis, MO 63021
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Fax 314-394-3199
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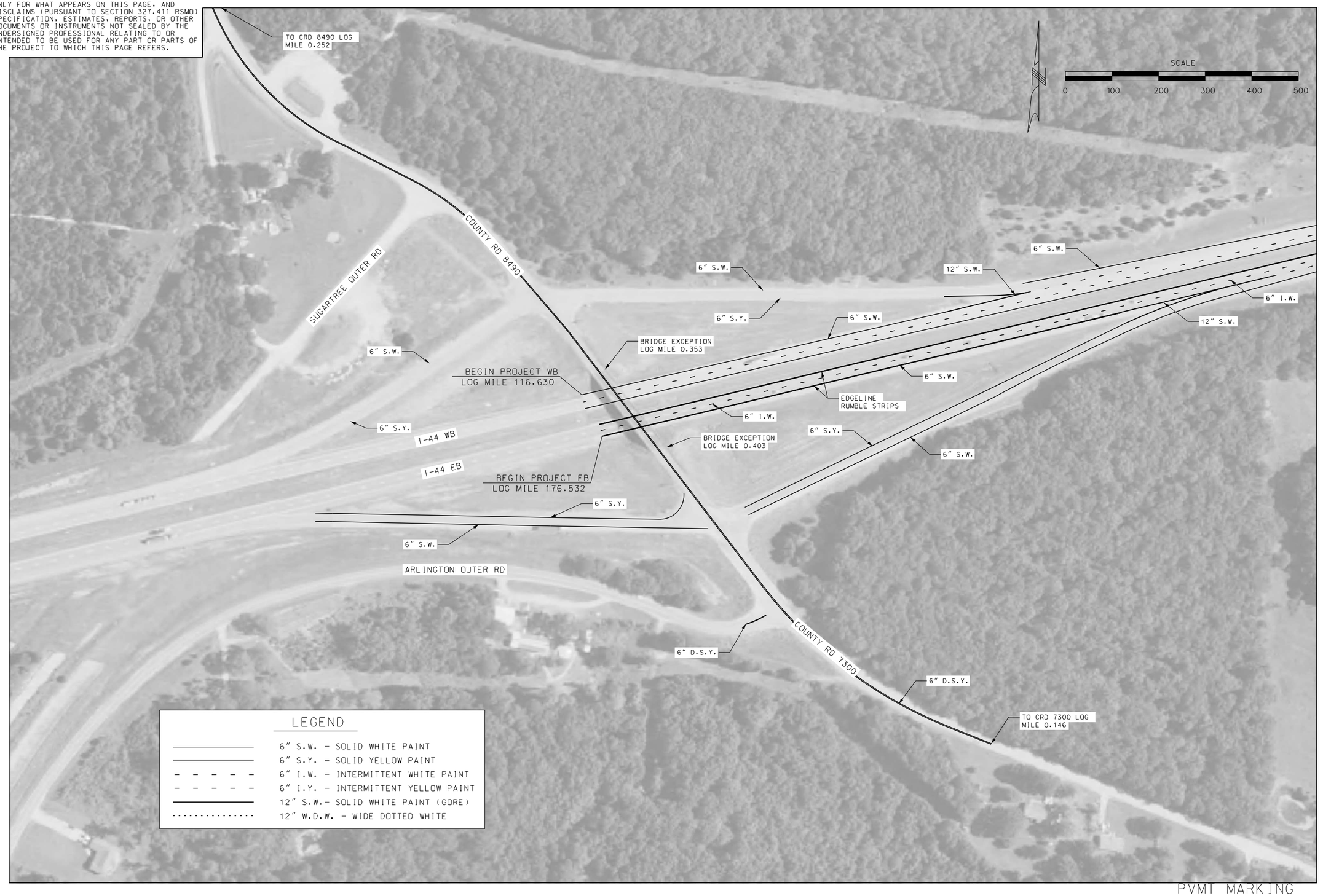

PVMT MARKING
SHEET 1 OF 30

STATE OF MISSOURI
JASON S. DOHRMANN
PE-2004017159
PROFESSIONAL ENGINEER

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

DATE PREPARED	9/23/2021
ROUTE	STATE
I-44	MO
DISTRICT	SHEET NO.
CD	66
COUNTY	PHELPS
JOB NO.	J5I3397
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	

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DESCRIPTION | DATE

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

HR GREEN, INC.
16020 SWINGLEY RIDGE ROAD,
SUITE 205
ST. LOUIS, MISSOURI 63017
PHONE: (636) 519.0990
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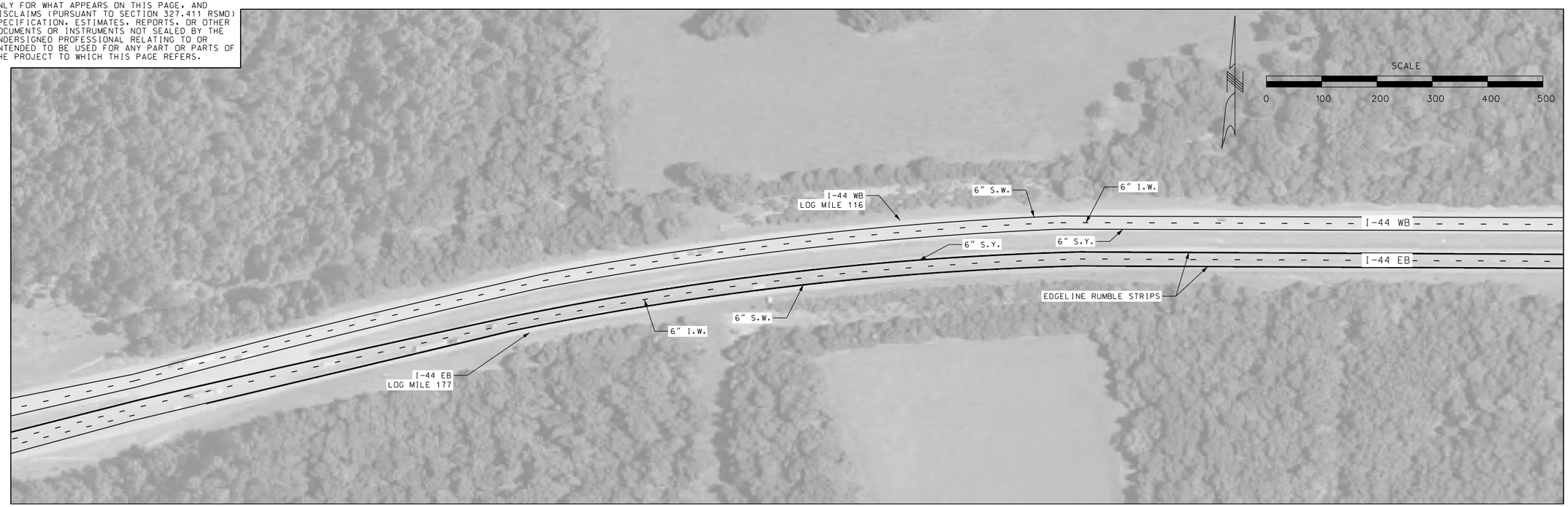

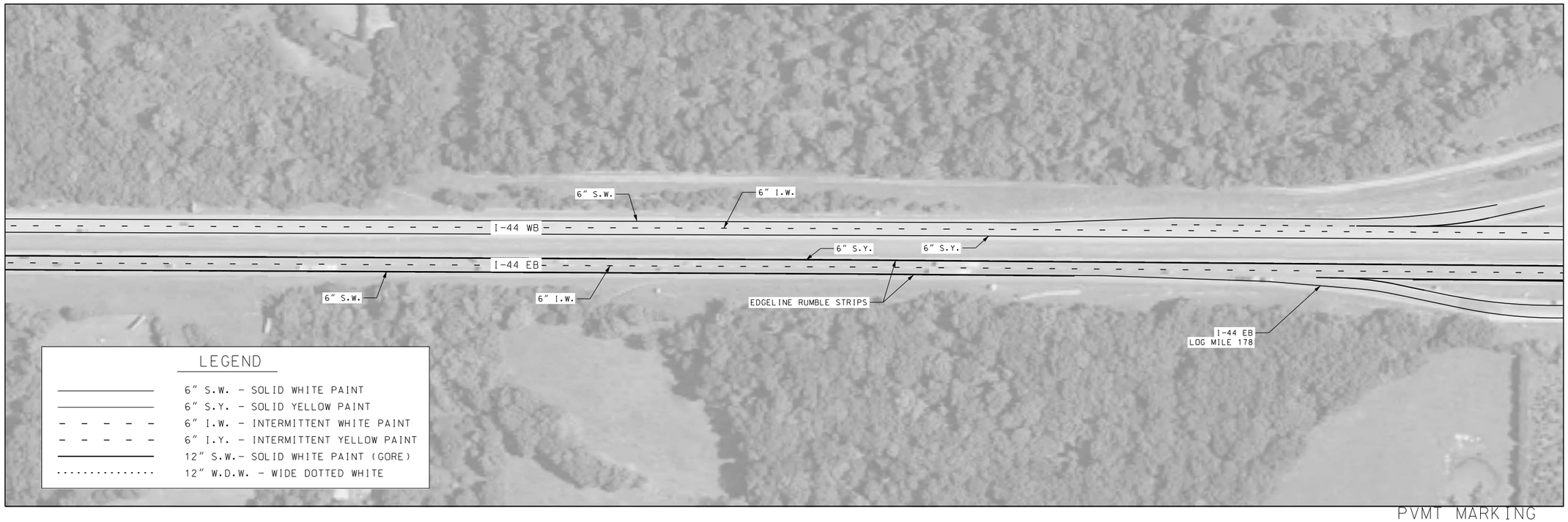

PVMT MARKING
SHEET 2 OF 30

STATE OF MISSOURI
JASON S. DOHRMANN
PE-2004017159
PROFESSIONAL ENGINEER

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DATE PREPARED
9/23/2021

ROUTE	STATE
I-44	MO
DISTRICT	SHEET NO.
CD	67

COUNTY
PHELPS

JOB NO.
J5I3397

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

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DESCRIPTION	DATE

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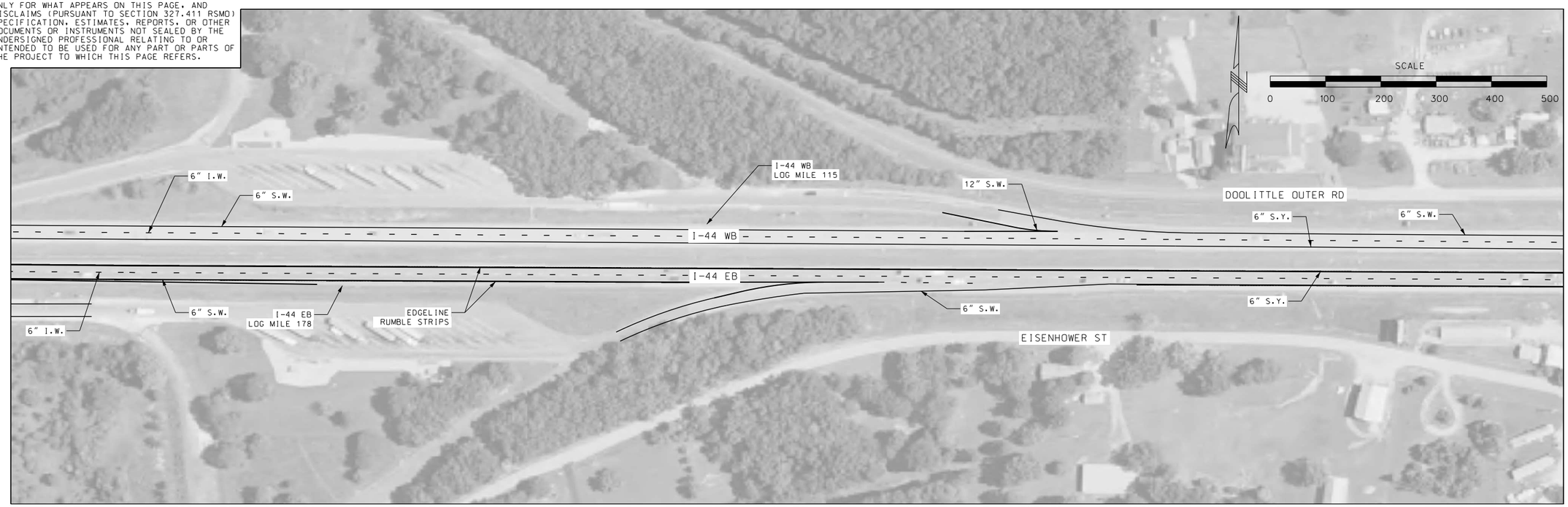

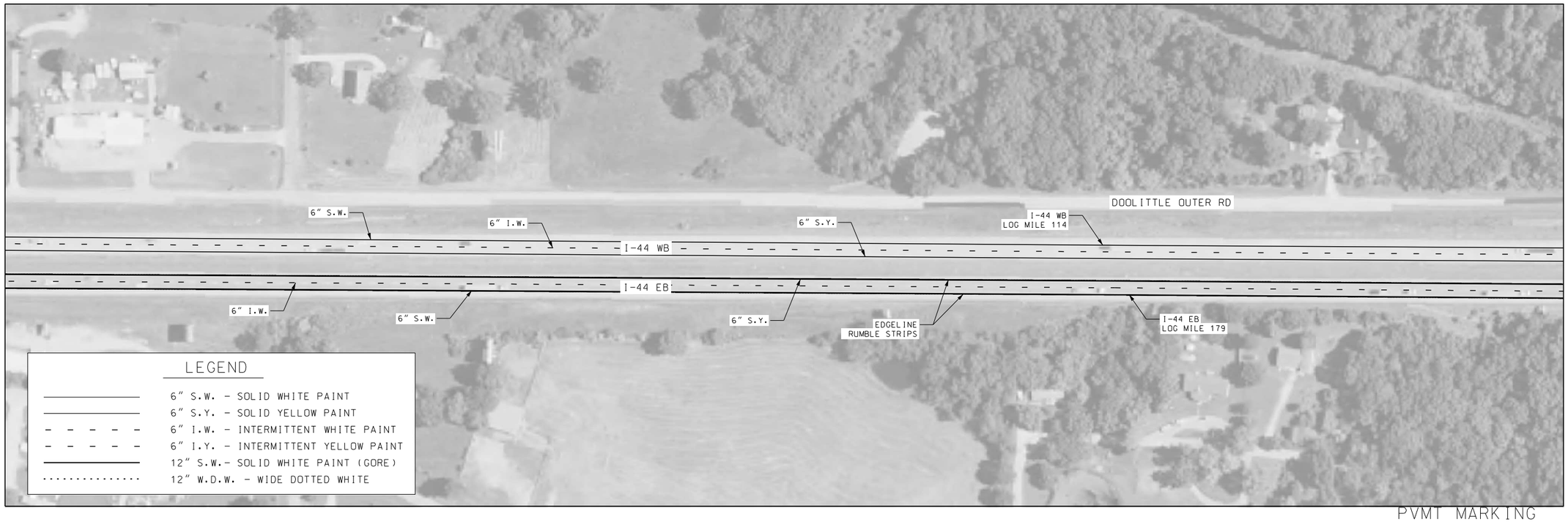

LEGEND

———	6" S.W. - SOLID WHITE PAINT
———	6" S.Y. - SOLID YELLOW PAINT
- - - - -	6" I.W. - INTERMITTENT WHITE PAINT
- - - - -	6" I.Y. - INTERMITTENT YELLOW PAINT
———	12" S.W.- SOLID WHITE PAINT (GORE)
.....	12" W.D.W. - WIDE DOTTED WHITE

PVMT MARKING
SHEET 3 OF 30

STATE OF MISSOURI
JASON S. DOHRMANN
PE-2004017159
PROFESSIONAL ENGINEER

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

DATE PREPARED
9/23/2021

ROUTE	STATE
I-44	MO
DISTRICT	SHEET NO.
CD	68

COUNTY
PHELPS

JOB NO.
J5I3397

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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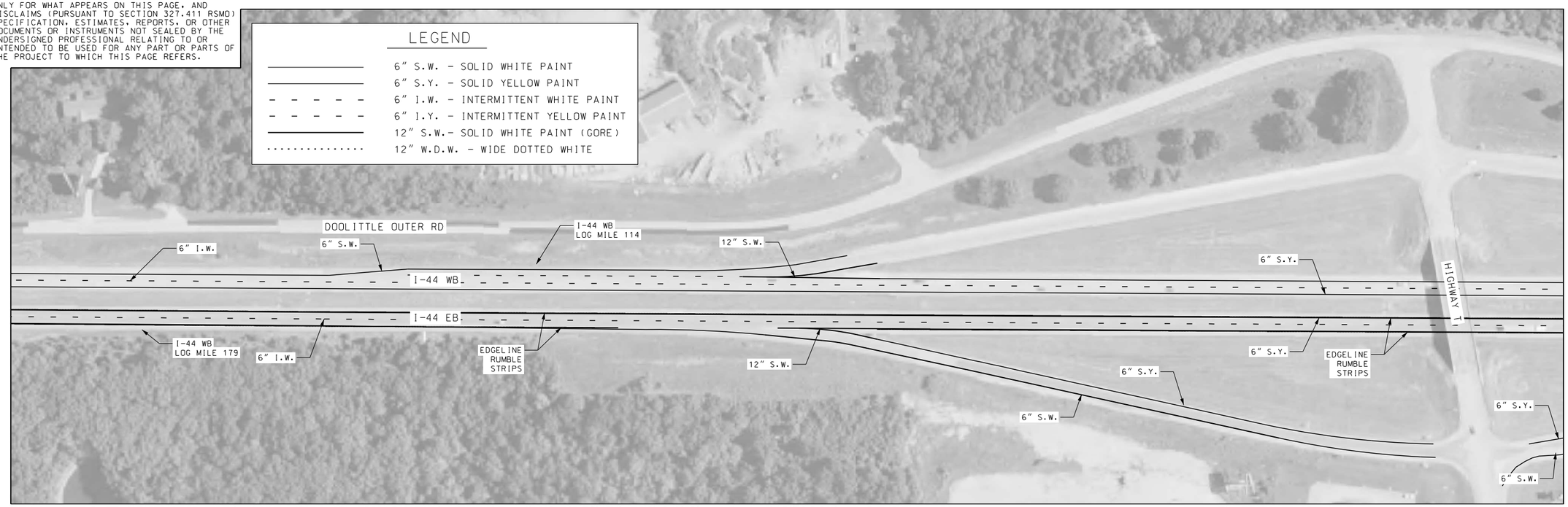
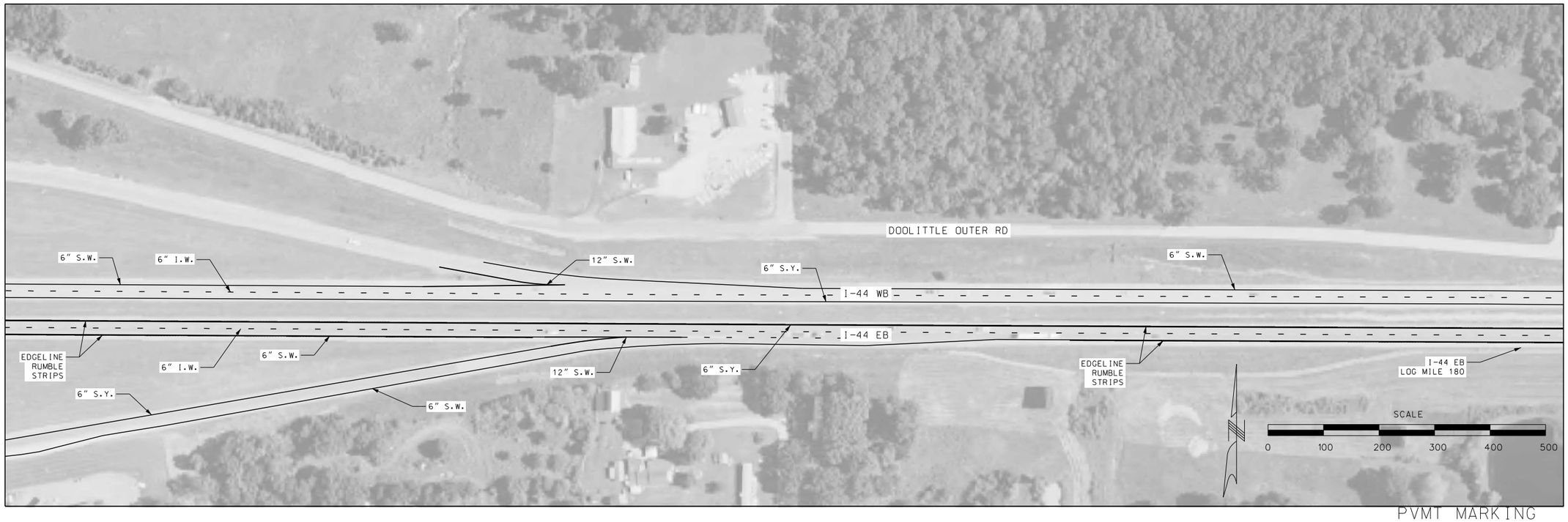
LEGEND

- 6" S.W. - SOLID WHITE PAINT
- 6" S.Y. - SOLID YELLOW PAINT
- 6" I.W. - INTERMITTENT WHITE PAINT
- 6" I.Y. - INTERMITTENT YELLOW PAINT
- 12" S.W.- SOLID WHITE PAINT (GORE)
- 12" W.D.W. - WIDE DOTTED WHITE





PVMT MARKING
SHEET 4 OF 30

STATE OF MISSOURI
JASON S. DOHRMANN
PE-2004017159
PROFESSIONAL ENGINEER

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

DATE PREPARED
9/23/2021

ROUTE	STATE
I-44	MO
DISTRICT	SHEET NO.
CD	69

COUNTY
PHELPS

JOB NO.
J5I3397

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DESCRIPTION	DATE

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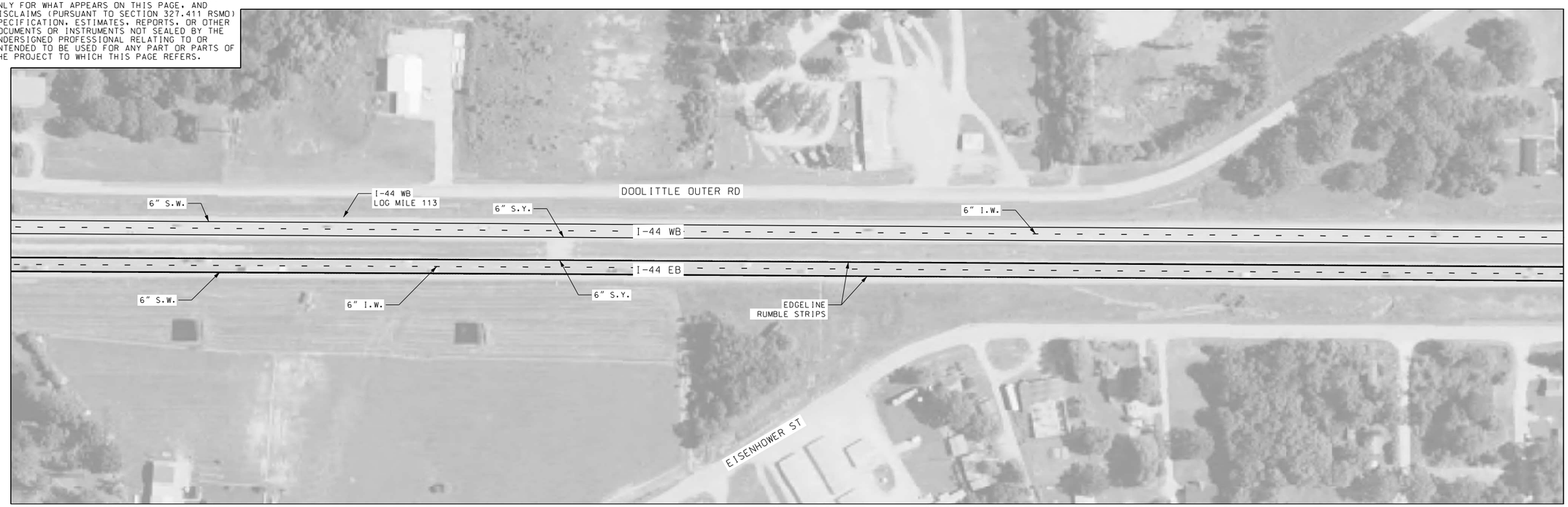

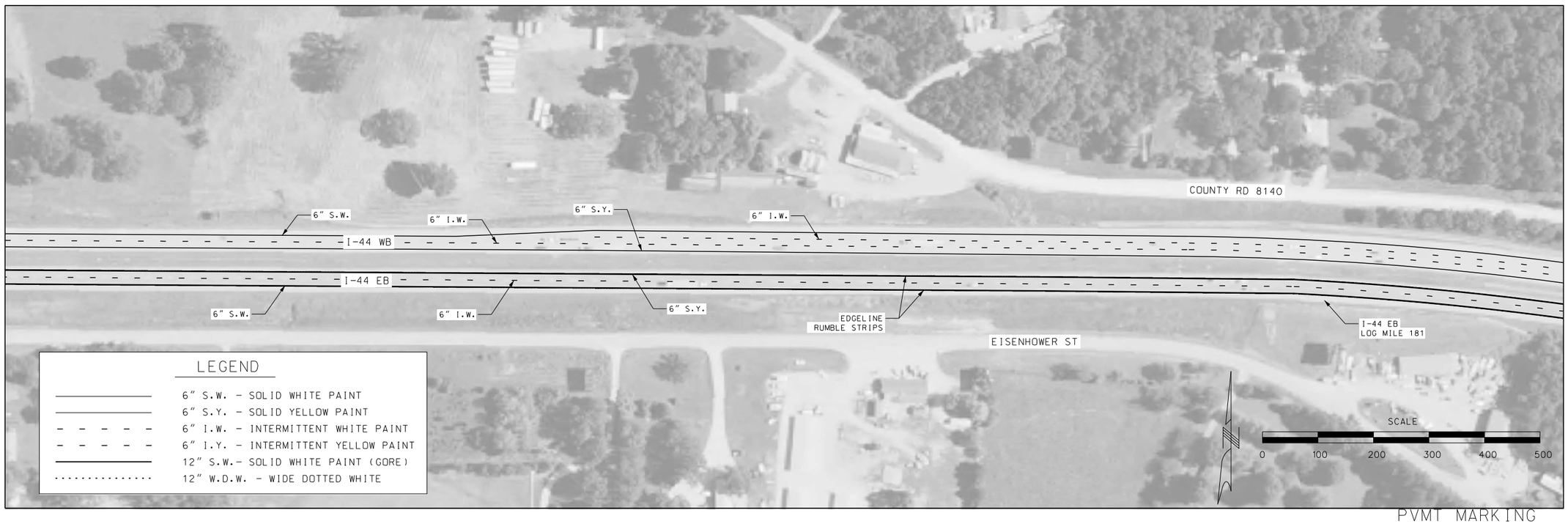

LEGEND

———	6" S.W. - SOLID WHITE PAINT
———	6" S.Y. - SOLID YELLOW PAINT
- - - - -	6" I.W. - INTERMITTENT WHITE PAINT
- - - - -	6" I.Y. - INTERMITTENT YELLOW PAINT
———	12" S.W.- SOLID WHITE PAINT (GORE)
.....	12" W.D.W. - WIDE DOTTED WHITE

PVMT MARKING
SHEET 5 OF 30

STATE OF MISSOURI
JASON S. DOHRMANN
PE-2004017159
PROFESSIONAL ENGINEER

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

DATE PREPARED
9/23/2021

ROUTE	STATE
I-44	MO
DISTRICT	SHEET NO.
CD	70

COUNTY
PHELPS

JOB NO.
J5I3397

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DESCRIPTION	DATE

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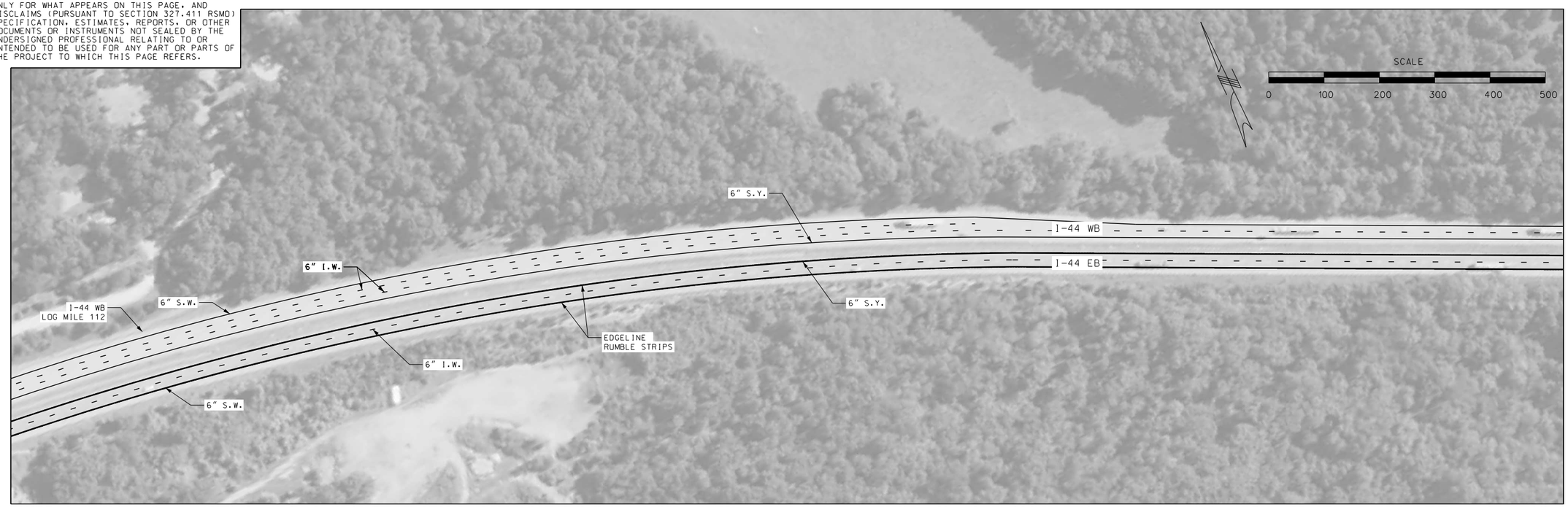

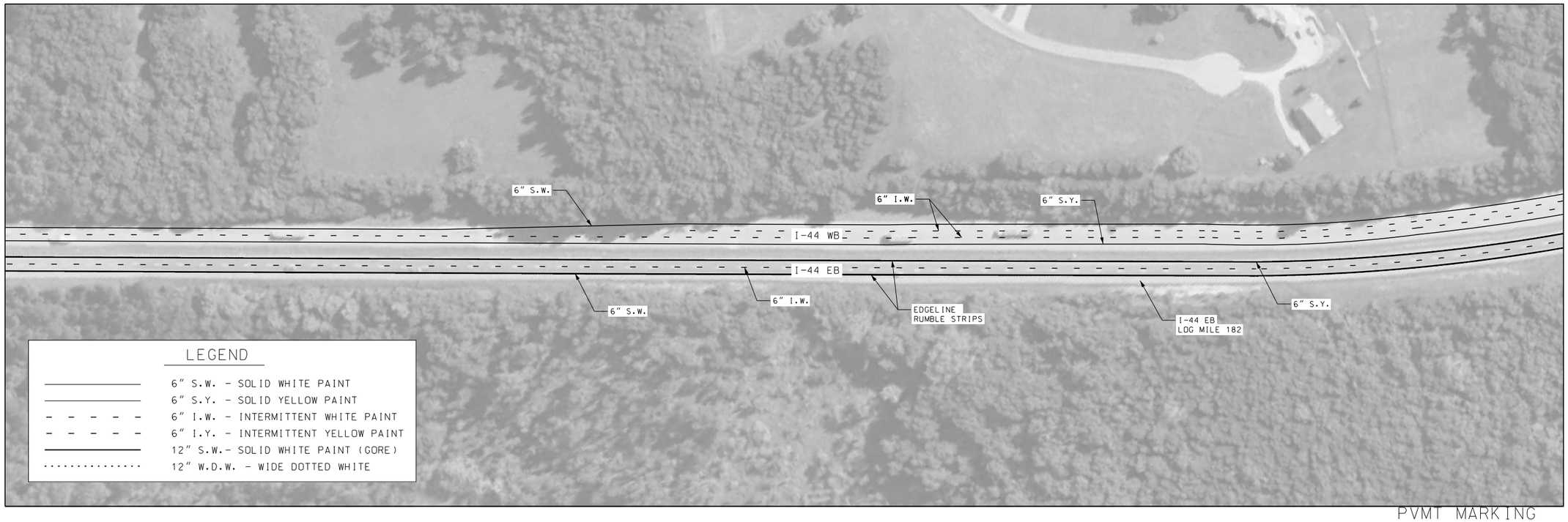

LEGEND

- 6" S.W. - SOLID WHITE PAINT
- 6" S.Y. - SOLID YELLOW PAINT
- 6" I.W. - INTERMITTENT WHITE PAINT
- 6" I.Y. - INTERMITTENT YELLOW PAINT
- 12" S.W.- SOLID WHITE PAINT (GORE)
- 12" W.D.W. - WIDE DOTTED WHITE

PVMT MARKING
SHEET 6 OF 30

STATE OF MISSOURI
JASON S. DOHRMANN
PE-2004017159
PROFESSIONAL ENGINEER

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DATE PREPARED: 9/23/2021
ROUTE: I-44 | STATE: MO
DISTRICT: CD | SHEET NO.: 71
COUNTY: PHELPS
JOB NO.: J5I3397
CONTRACT ID.:
PROJECT NO.:
BRIDGE NO.:

DESCRIPTION | DATE

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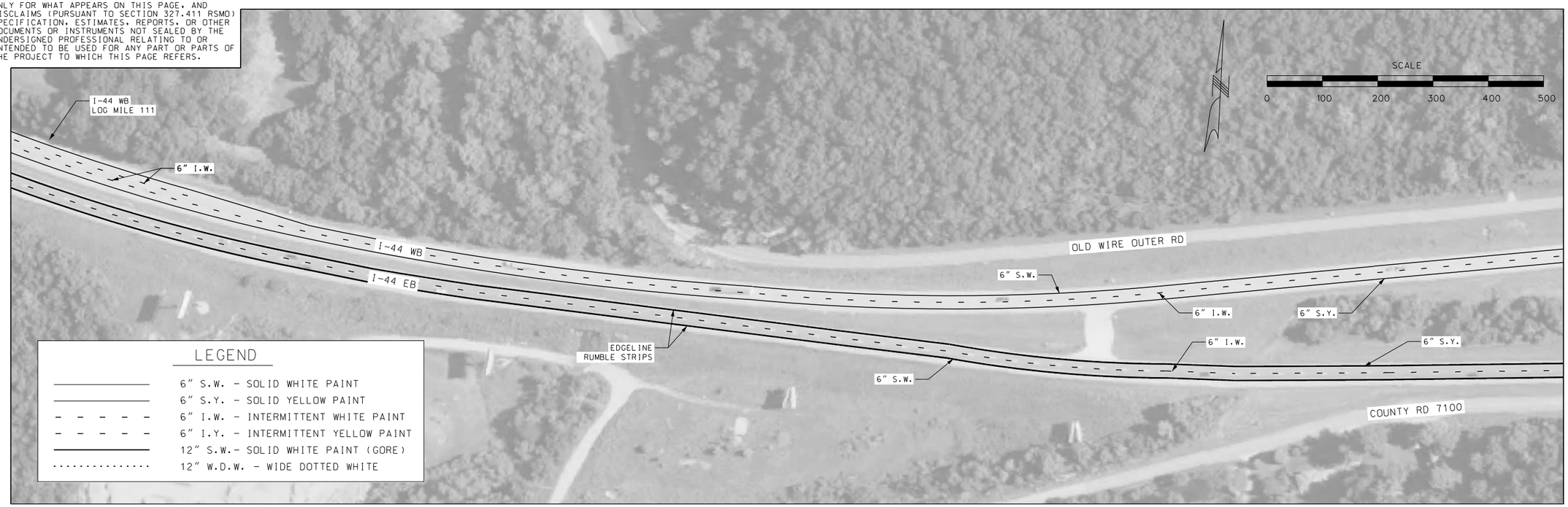

LEGEND

———	6" S.W. - SOLID WHITE PAINT
———	6" S.Y. - SOLID YELLOW PAINT
- - - - -	6" I.W. - INTERMITTENT WHITE PAINT
- - - - -	6" I.Y. - INTERMITTENT YELLOW PAINT
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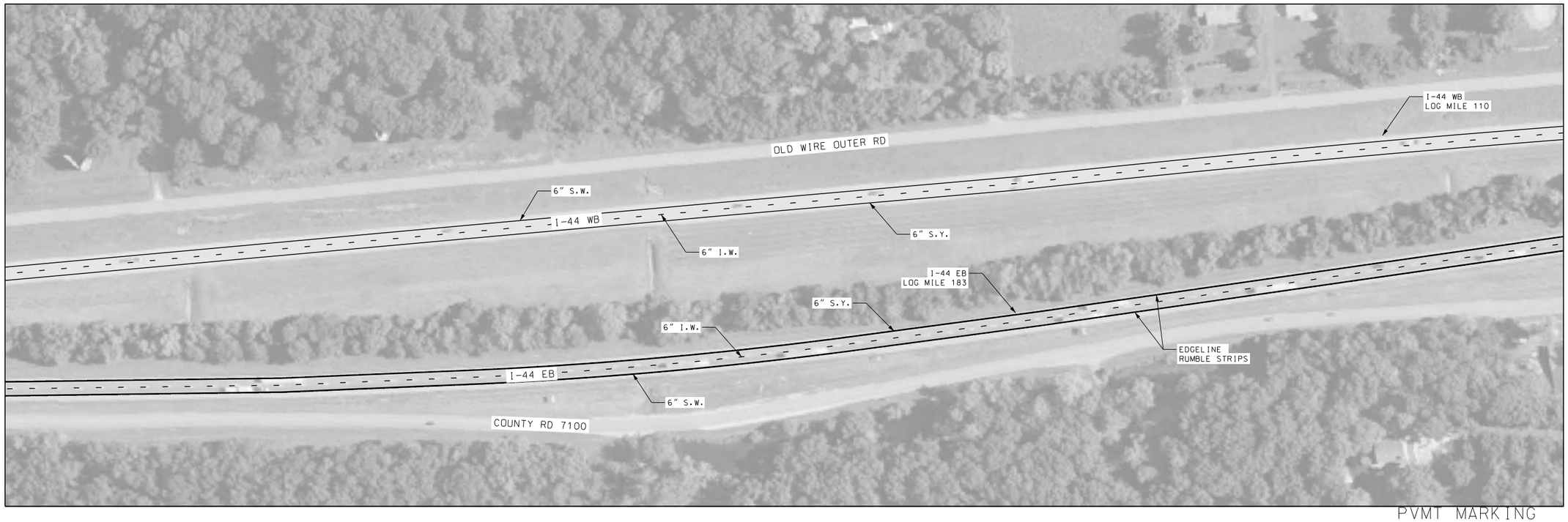

PVMT MARKING
SHEET 7 OF 30

STATE OF MISSOURI
JASON S. DOHRMANN
PE-2004017159
PROFESSIONAL ENGINEER

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DATE PREPARED
9/23/2021

ROUTE	STATE
I-44	MO
DISTRICT	SHEET NO.
CD	72

COUNTY
PHELPS

JOB NO.
J5I3397

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DESCRIPTION	DATE

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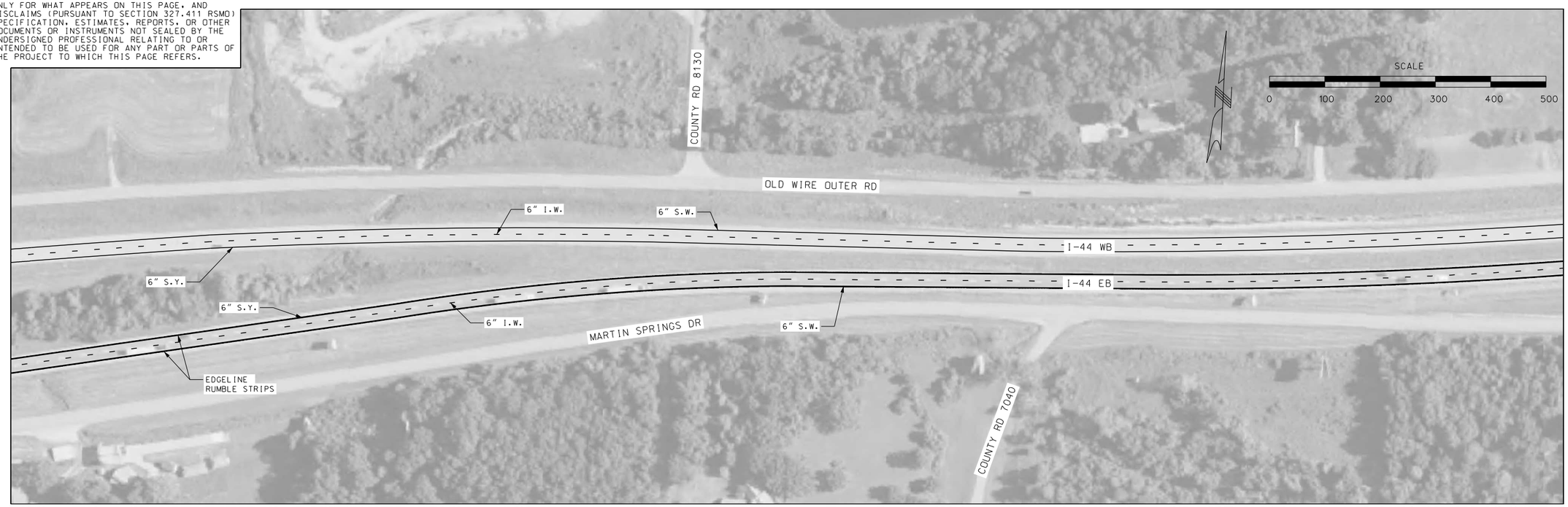

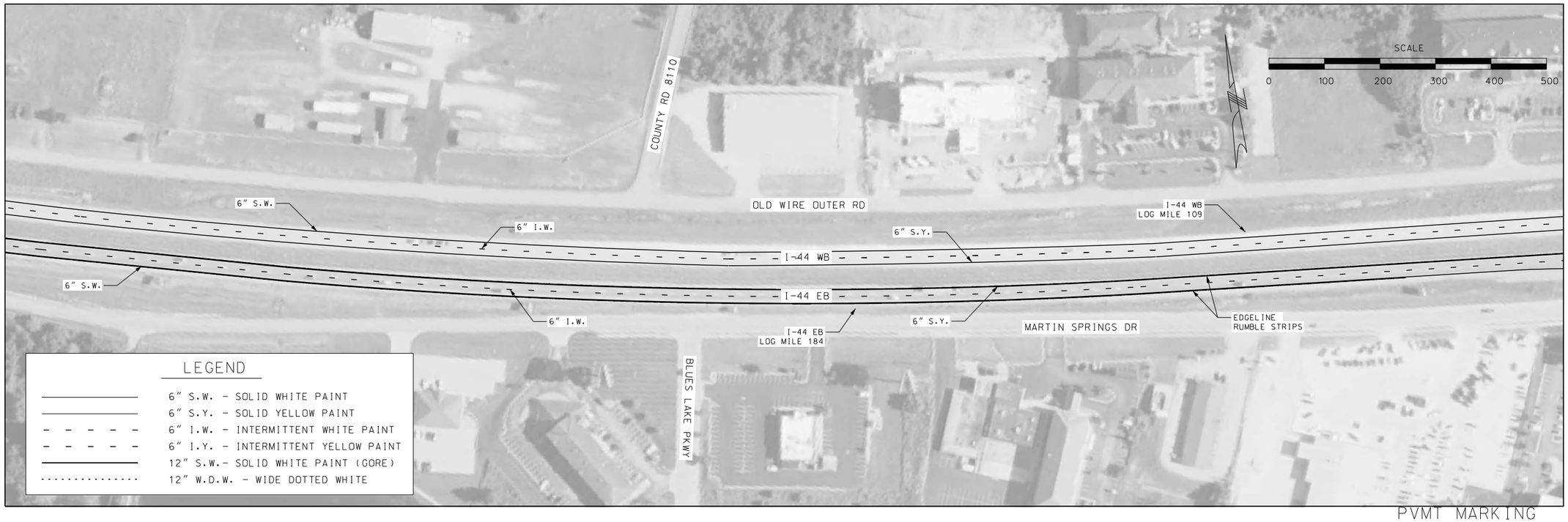

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SHEET 8 OF 30

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JASON S. DOHRMANN
PE-2004017159
PROFESSIONAL ENGINEER

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DATE PREPARED
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ROUTE	STATE
I-44	MO
DISTRICT	SHEET NO.
CD	73

COUNTY
PHELPS

JOB NO.
J5I3397

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DESCRIPTION	DATE

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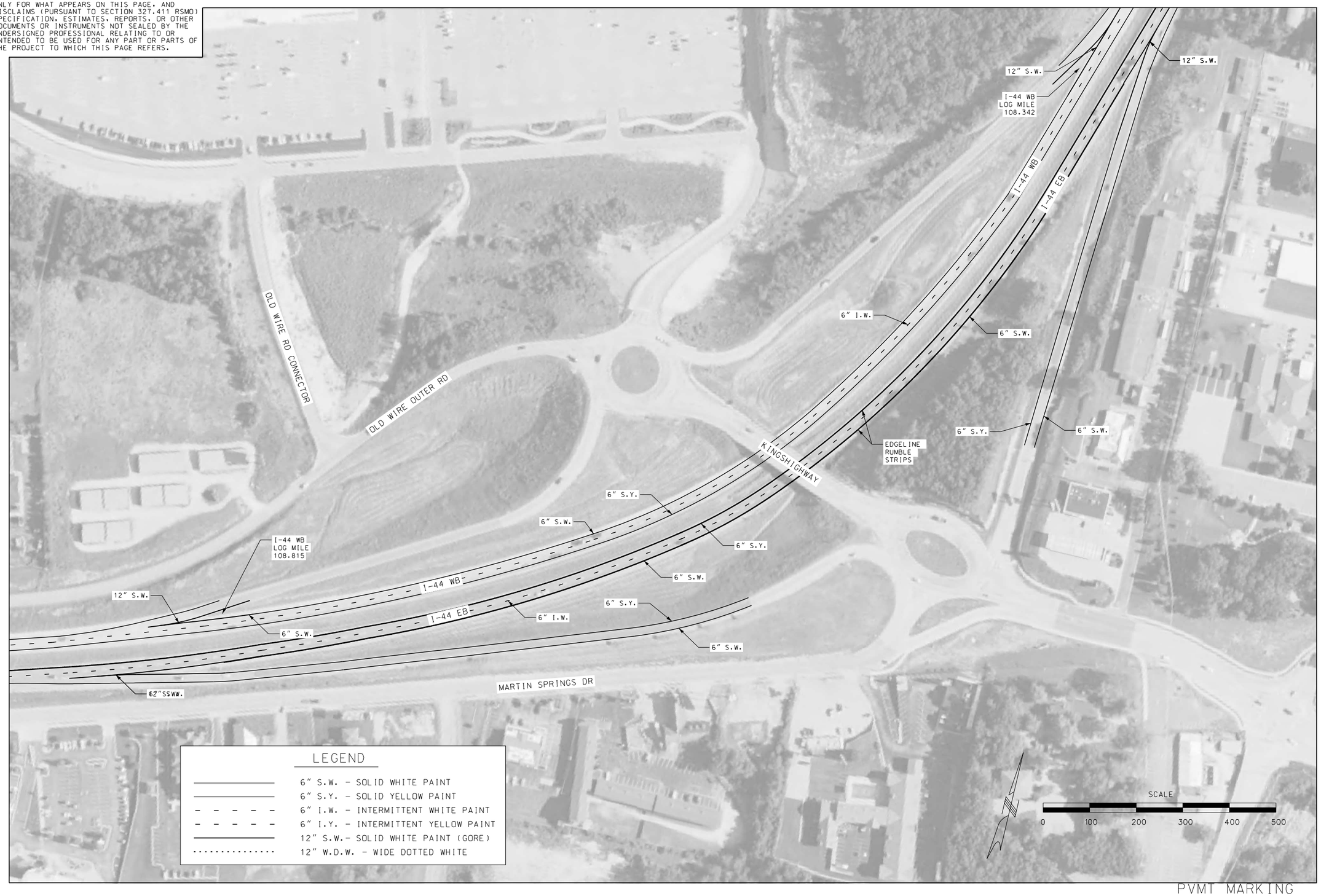

PVMT MARKING
SHEET 9 OF 30

STATE OF MISSOURI
JASON S. DOHRMANN
PE-2004017159
PROFESSIONAL ENGINEER

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DATE PREPARED
9/23/2021

ROUTE	STATE
I-44	MO
DISTRICT	SHEET NO.
CD	74

COUNTY
PHELPS

JOB NO.
J5I3397

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PROJECT NO.

BRIDGE NO.

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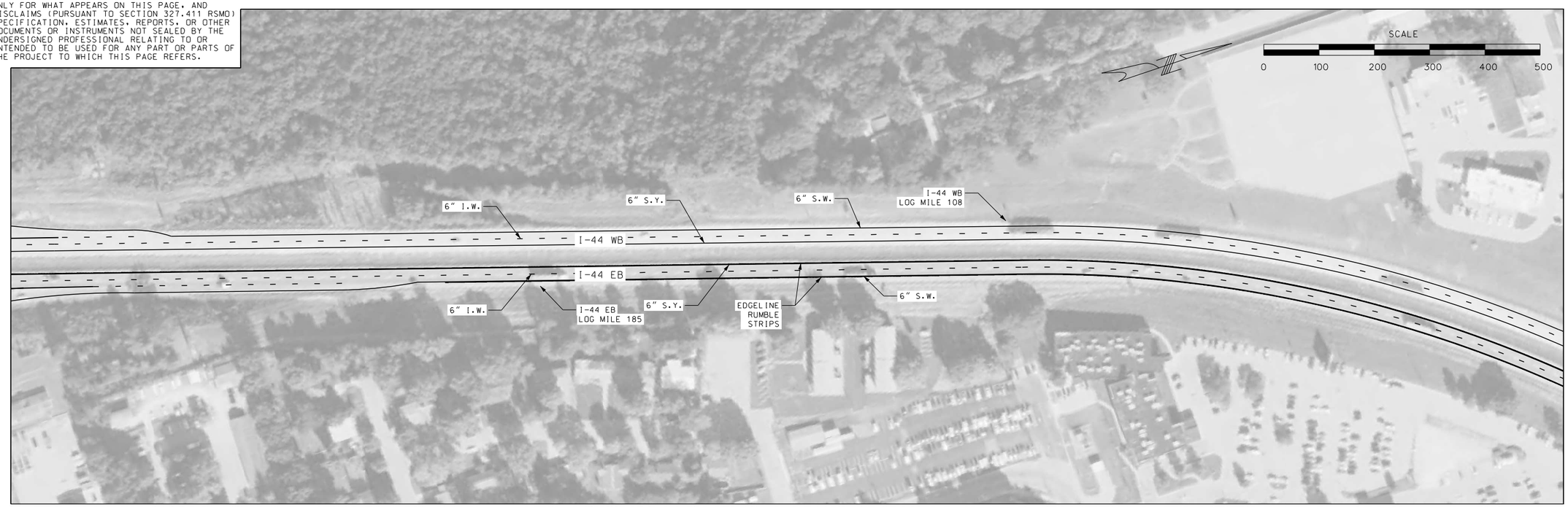

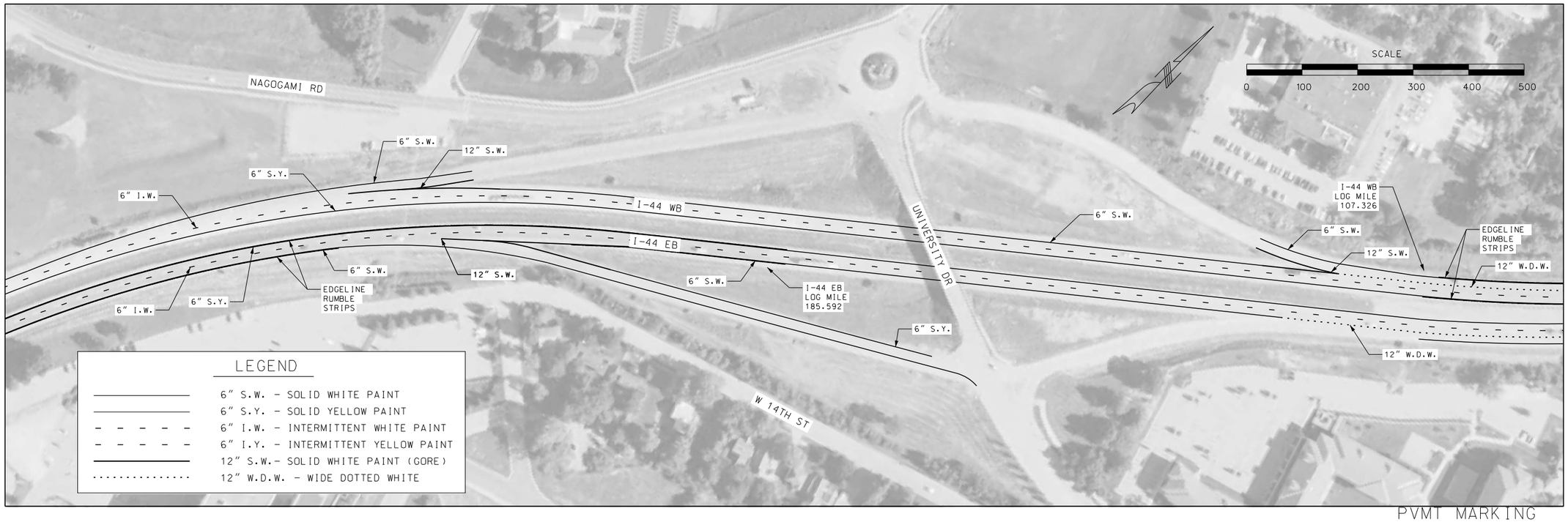

PVMT MARKING
SHEET 10 OF 30

STATE OF MISSOURI
JASON S. DOHRMANN
PE-2004017159
PROFESSIONAL ENGINEER

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ROUTE	STATE
I-44	MO
DISTRICT	SHEET NO.
CD	75

COUNTY
PHELPS

JOB NO.
J5I3397

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DESCRIPTION	DATE

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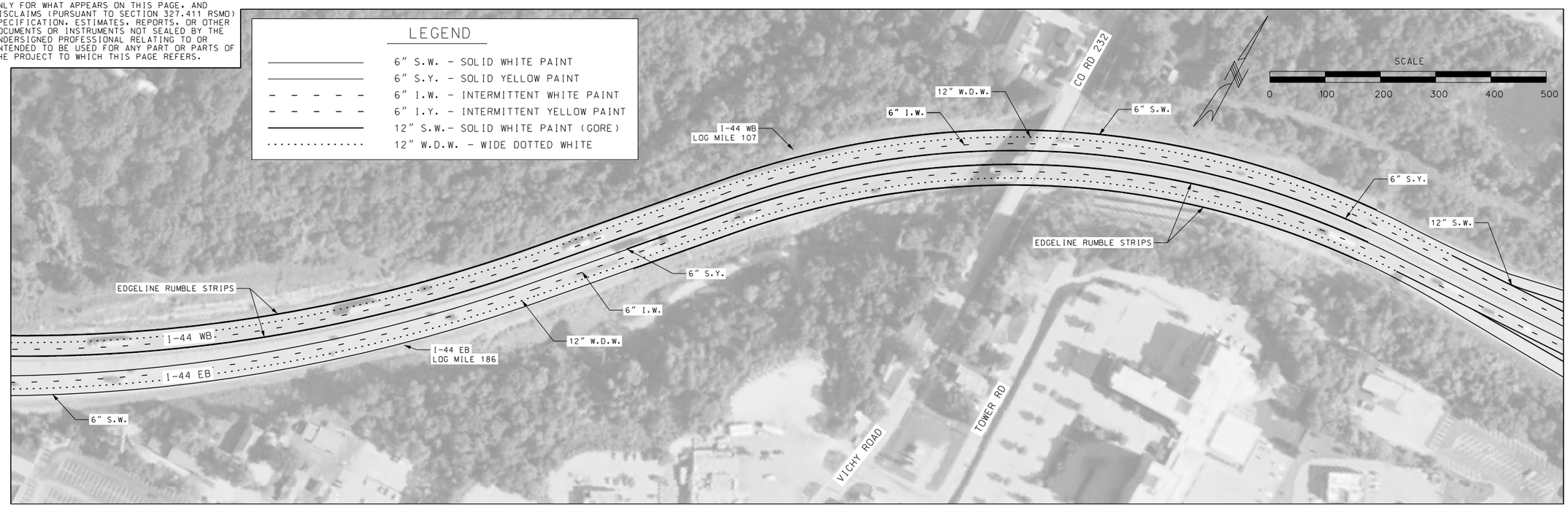

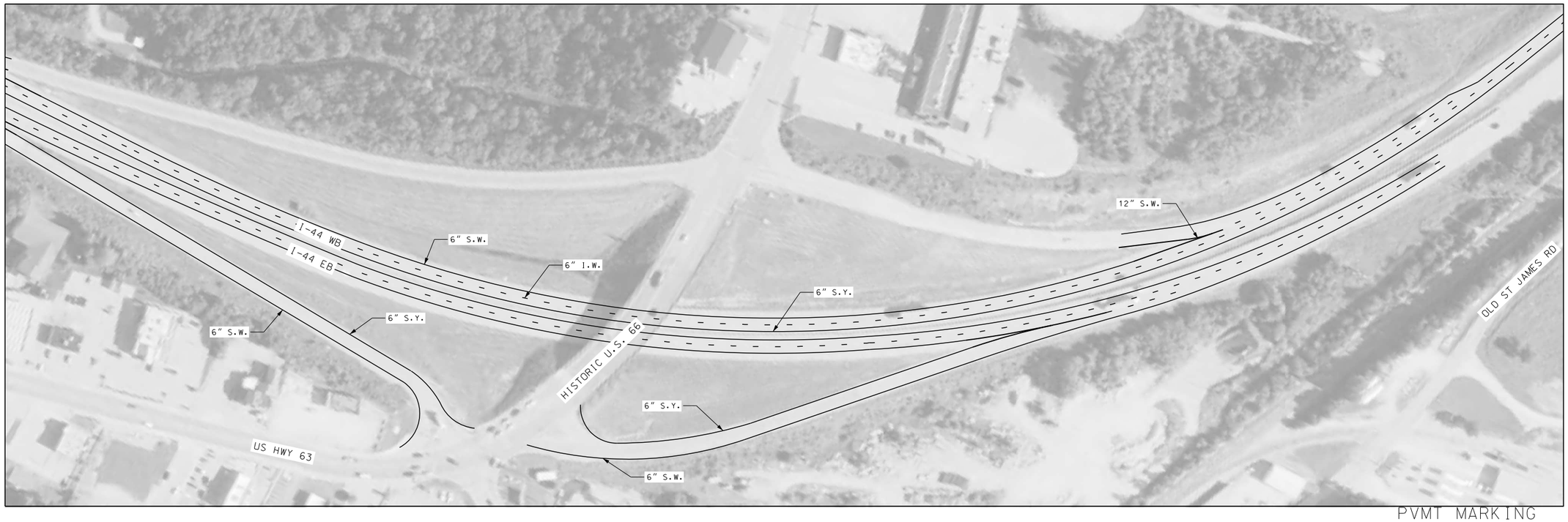

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SHEET 11 OF 30

STATE OF MISSOURI
PROFESSIONAL ENGINEER
JASON S. DOHRMANN
PE-2004017159

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DATE PREPARED
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ROUTE	STATE
I-44	MO
DISTRICT	SHEET NO.
CD	76

COUNTY
PHELPS

JOB NO.
J5I3397

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DESCRIPTION	DATE

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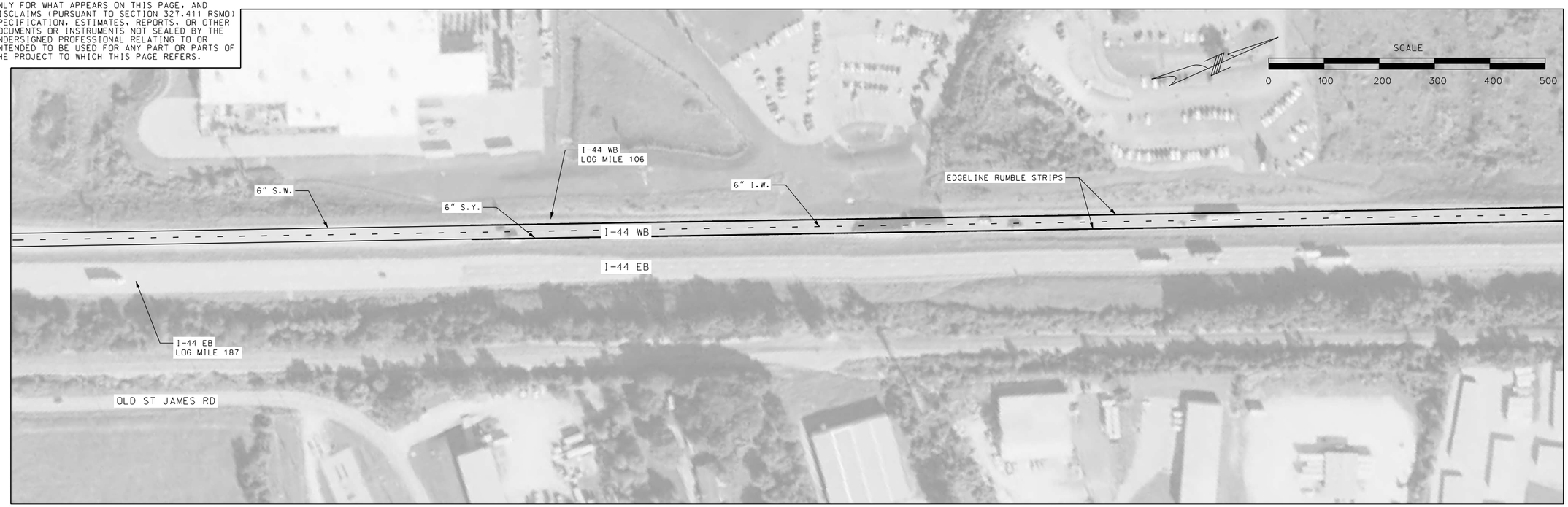

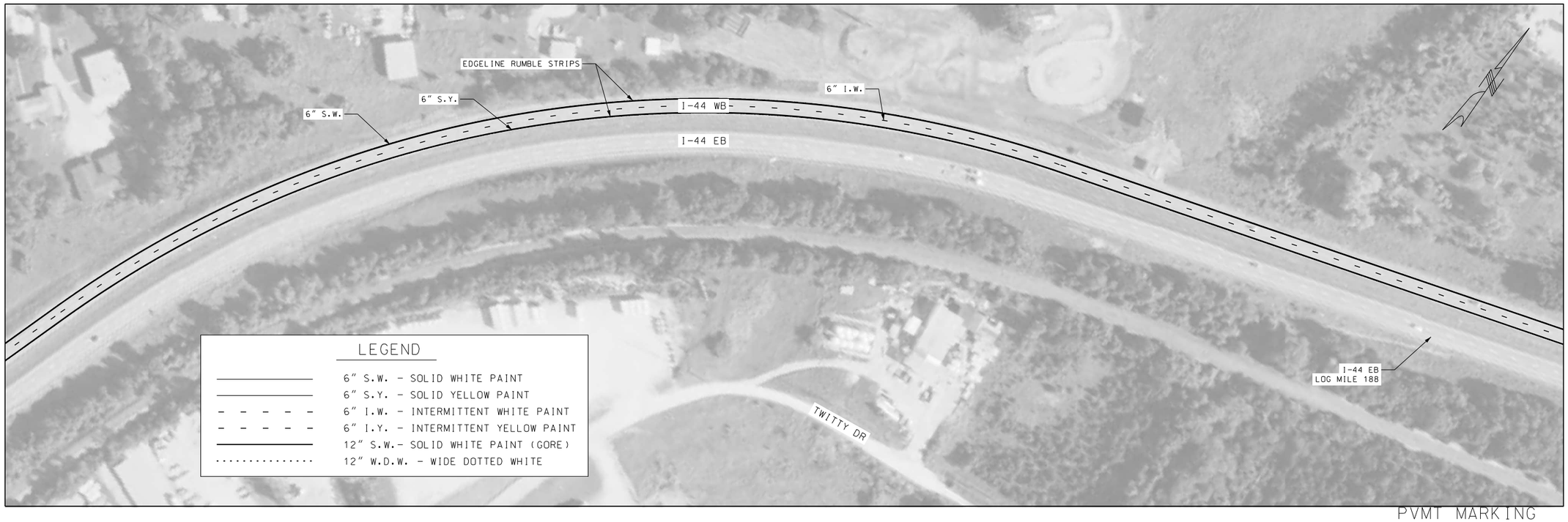

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SHEET 12 OF 30

STATE OF MISSOURI
JASON S. DOHRMANN
PE-2004017159
PROFESSIONAL ENGINEER

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ROUTE	STATE
I-44	MO
DISTRICT	SHEET NO.
CD	77

COUNTY
PHELPS

JOB NO.
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PROJECT NO.

BRIDGE NO.

DESCRIPTION	DATE

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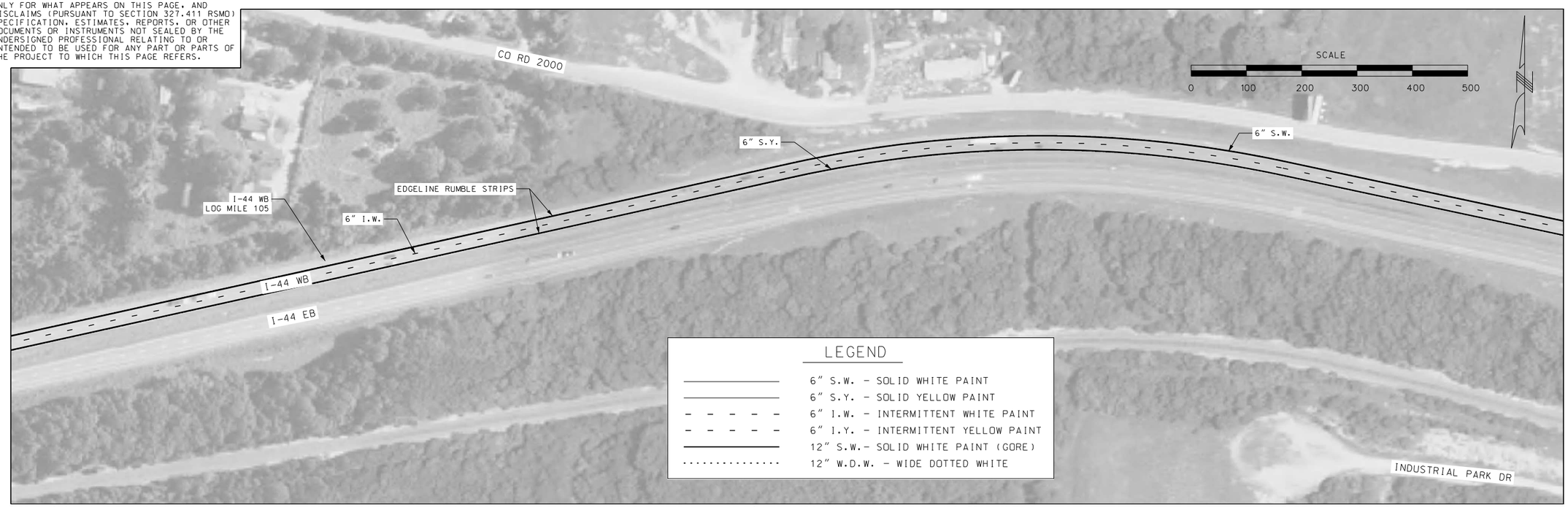

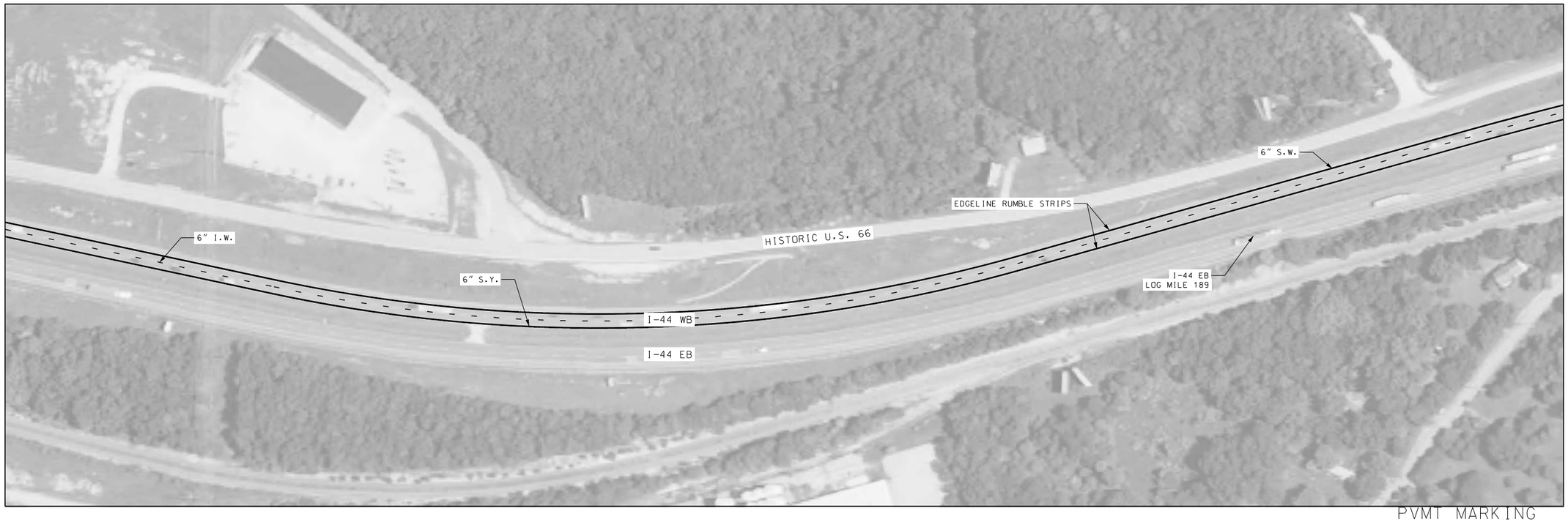

PVMT MARKING
SHEET 13 OF 30

STATE OF MISSOURI
JASON S. DOHRMANN
PE-2004017159
PROFESSIONAL ENGINEER

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DATE PREPARED
9/23/2021

ROUTE	STATE
I-44	MO
DISTRICT	SHEET NO.
CD	78

COUNTY
PHELPS

JOB NO.
J5I3397

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DESCRIPTION	DATE

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LEGEND

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- - - - -	6" I.Y. - INTERMITTENT YELLOW PAINT
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PVMT MARKING
SHEET 14 OF 30

STATE OF MISSOURI
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ROUTE	STATE
I-44	MO
DISTRICT	SHEET NO.
CD	79

COUNTY
PHELPS

JOB NO.
J5I3397

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DESCRIPTION	DATE

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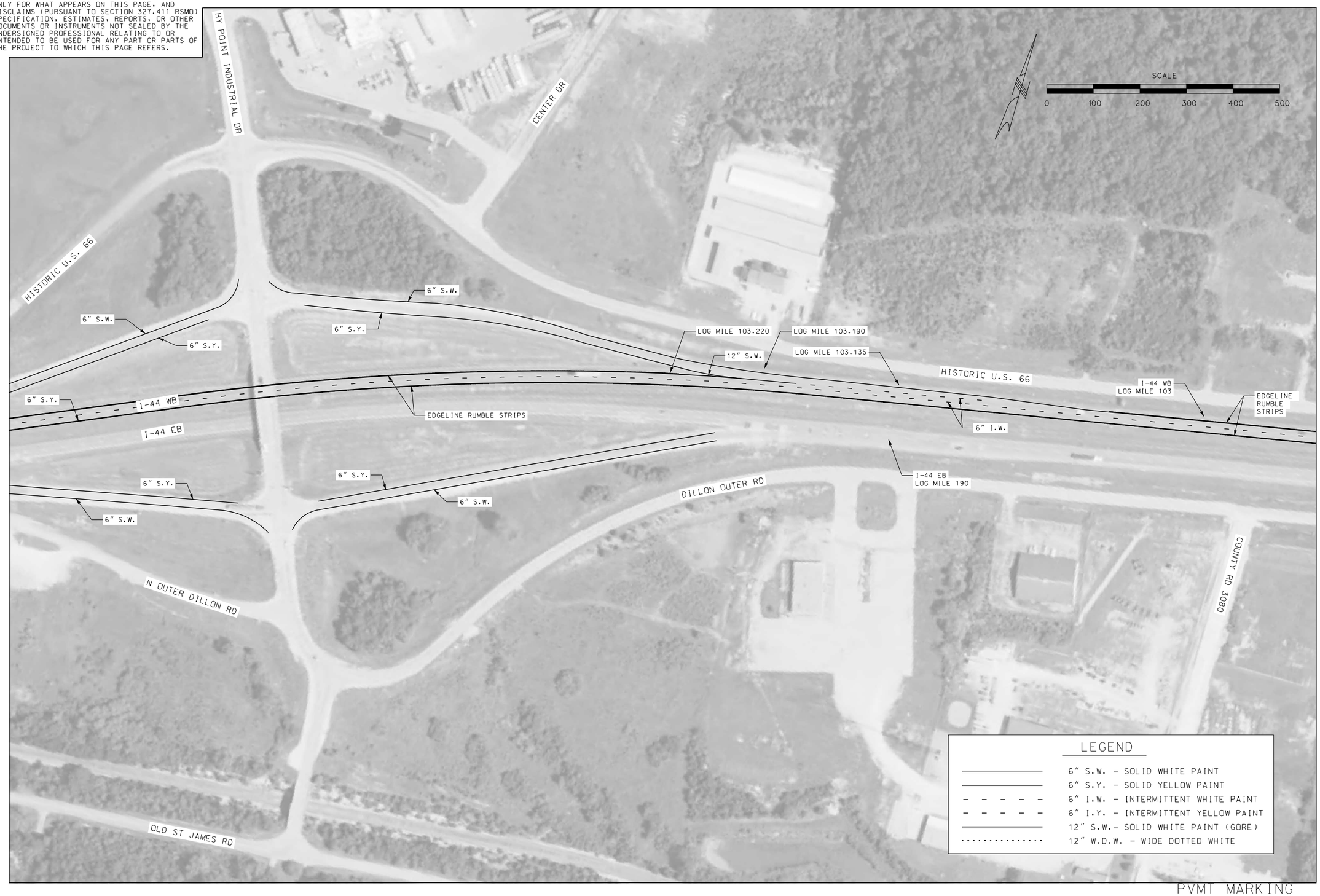

PVMT MARKING
SHEET 15 OF 30

STATE OF MISSOURI
JASON S. DOHRMANN
PE-2004017159
PROFESSIONAL ENGINEER

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DATE PREPARED
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ROUTE	STATE
I-44	MO
DISTRICT	SHEET NO.
CD	80

COUNTY
PHELPS

JOB NO.
J5I3397

CONTRACT ID.

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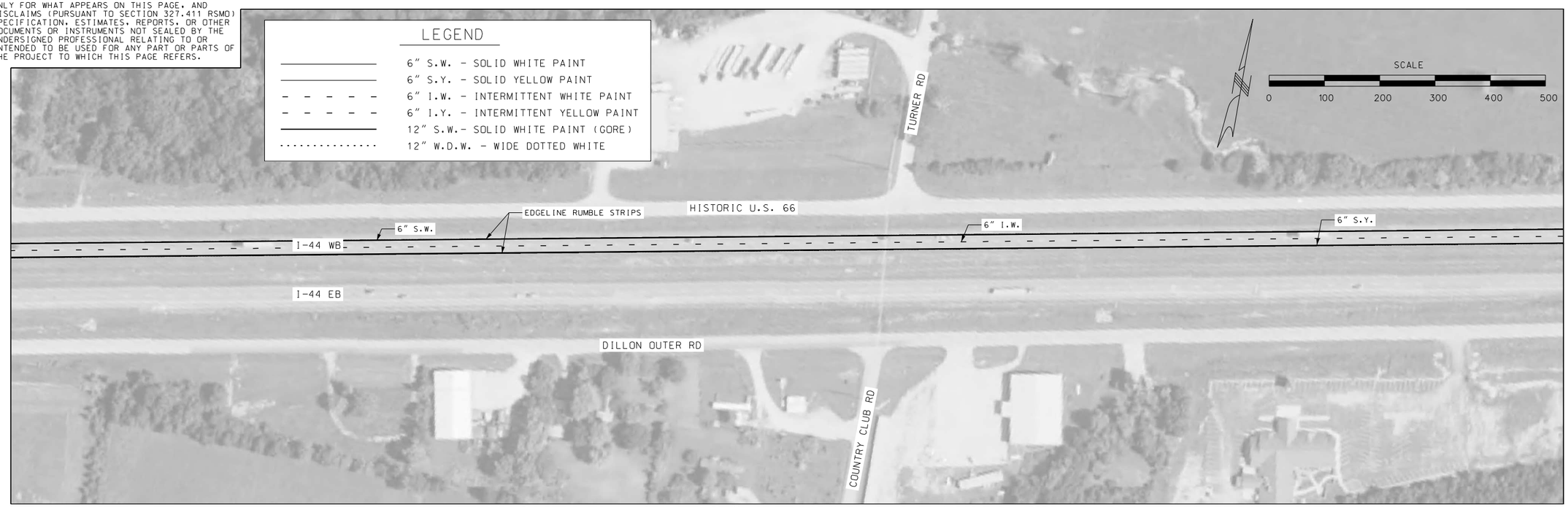

PVMT MARKING
SHEET 16 OF 30

STATE OF MISSOURI
JASON S. DOHRMANN
PE-2004017159
PROFESSIONAL ENGINEER

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ROUTE I-44 | STATE MO
DISTRICT CD | SHEET NO. 81
COUNTY PHELPS
JOB NO. J5I3397
CONTRACT ID.
PROJECT NO.
BRIDGE NO.

DESCRIPTION | DATE

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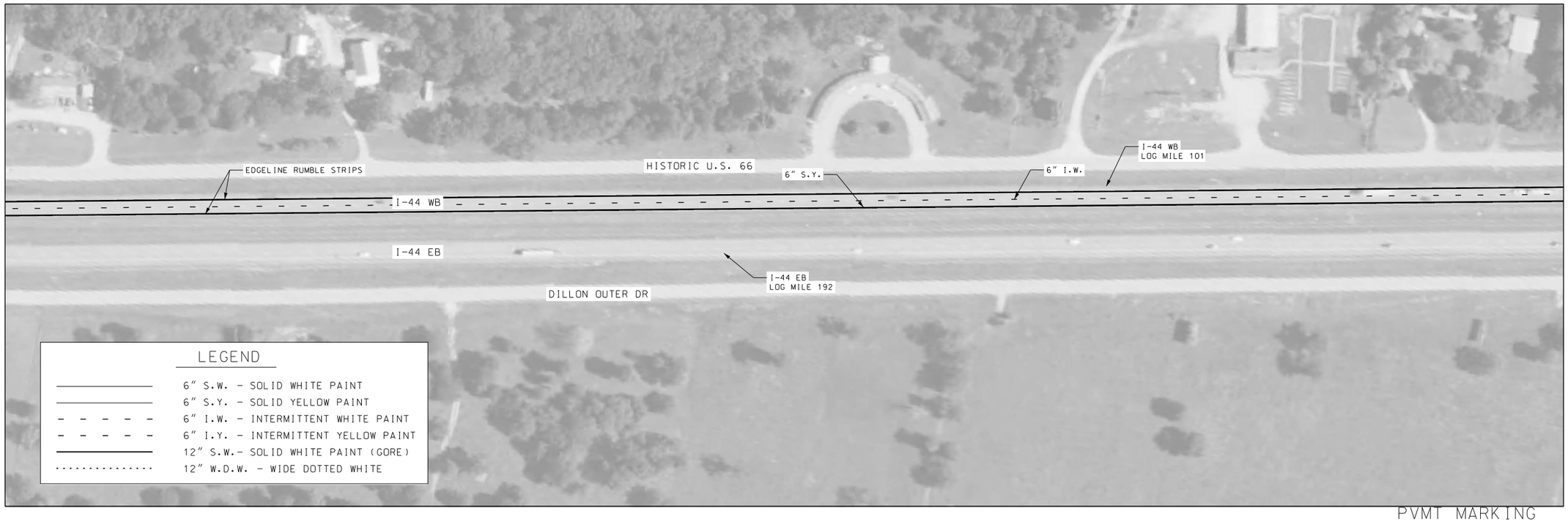

PVMT MARKING
SHEET 17 OF 30

STATE OF MISSOURI
JASON S. DOHRMANN
PE-2004017159
PROFESSIONAL ENGINEER

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DATE PREPARED
9/23/2021

ROUTE	STATE
I-44	MO
DISTRICT	SHEET NO.
CD	82

COUNTY
PHELPS

JOB NO.
J5I3397

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DESCRIPTION	DATE

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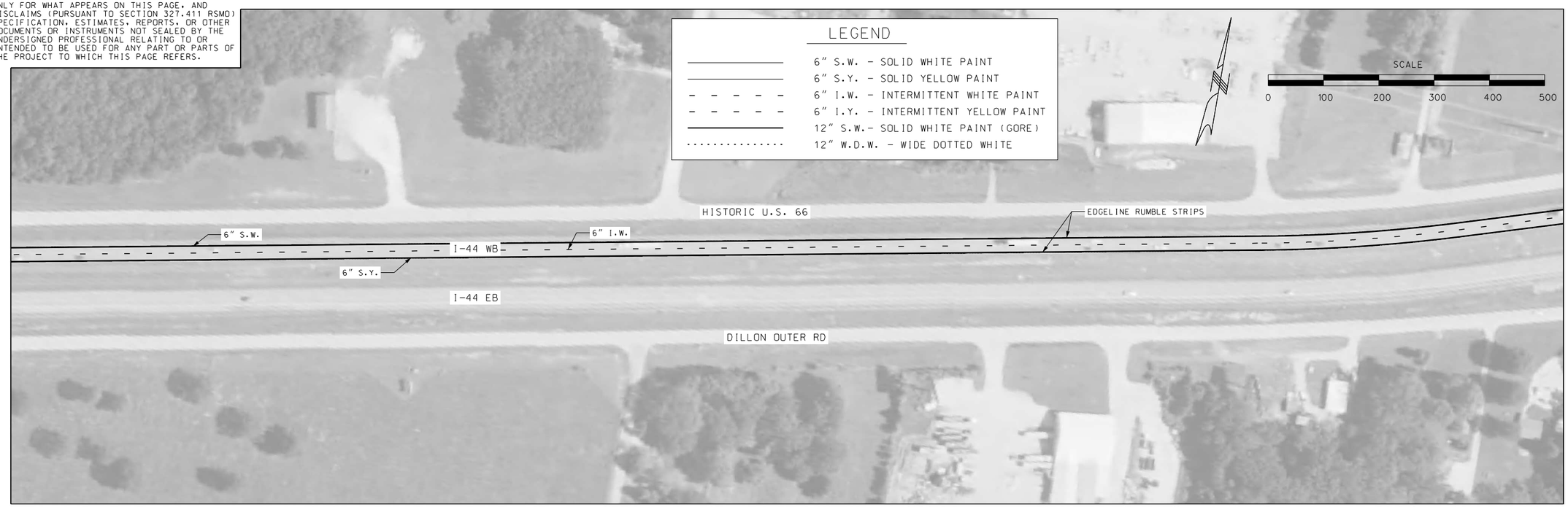

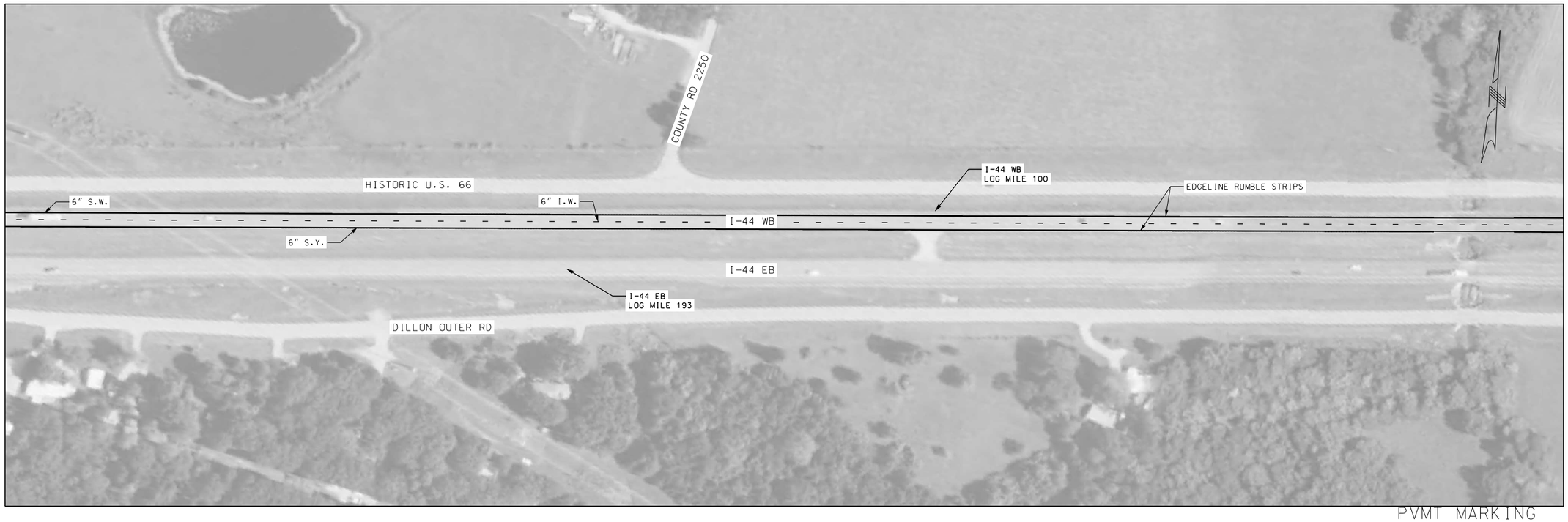

PVMT MARKING
SHEET 18 OF 30

STATE OF MISSOURI
JASON S. DOHRMANN
PE-2004017159
PROFESSIONAL ENGINEER

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DATE PREPARED
9/23/2021

ROUTE	STATE
I-44	MO
DISTRICT	SHEET NO.
CD	83

COUNTY
PHELPS

JOB NO.
J5I3397

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DESCRIPTION	DATE

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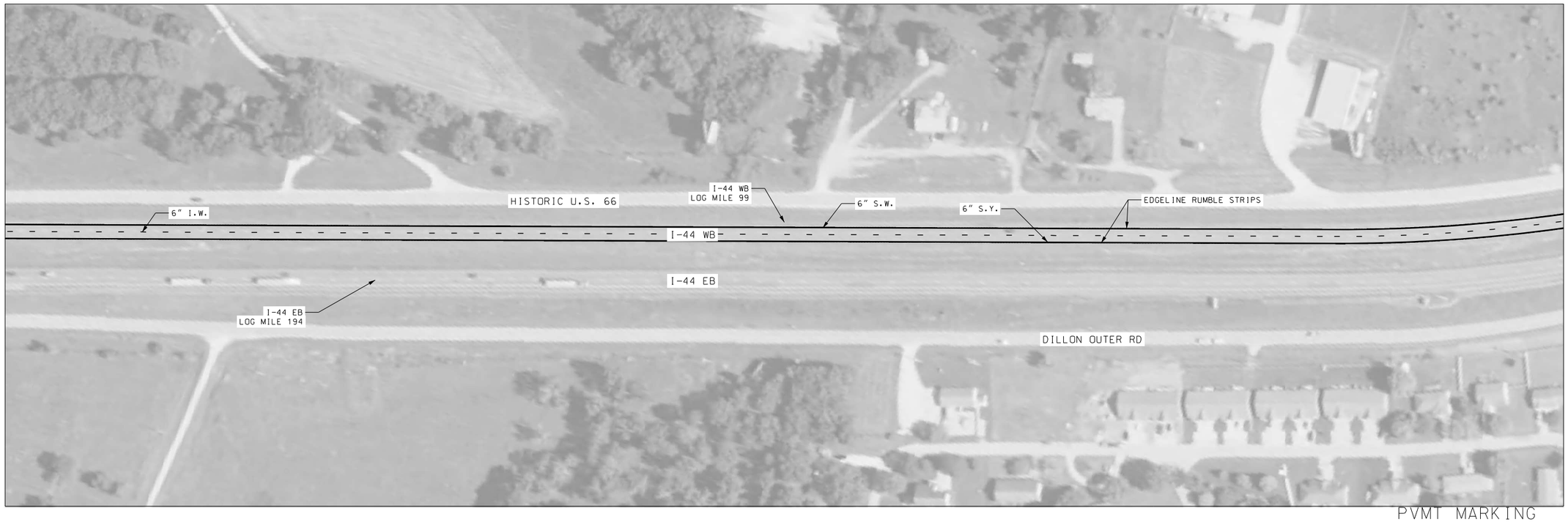

PVMT MARKING
SHEET 19 OF 30

STATE OF MISSOURI
JASON S. DOHRMANN
PE-2004017159
PROFESSIONAL ENGINEER

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

DATE PREPARED
9/23/2021

ROUTE	STATE
I-44	MO
DISTRICT	SHEET NO.
CD	84

COUNTY
PHELPS

JOB NO.
J5I3397

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DESCRIPTION	DATE

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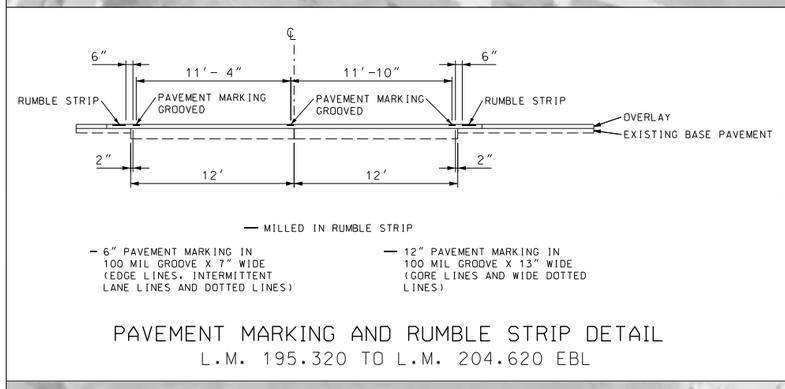
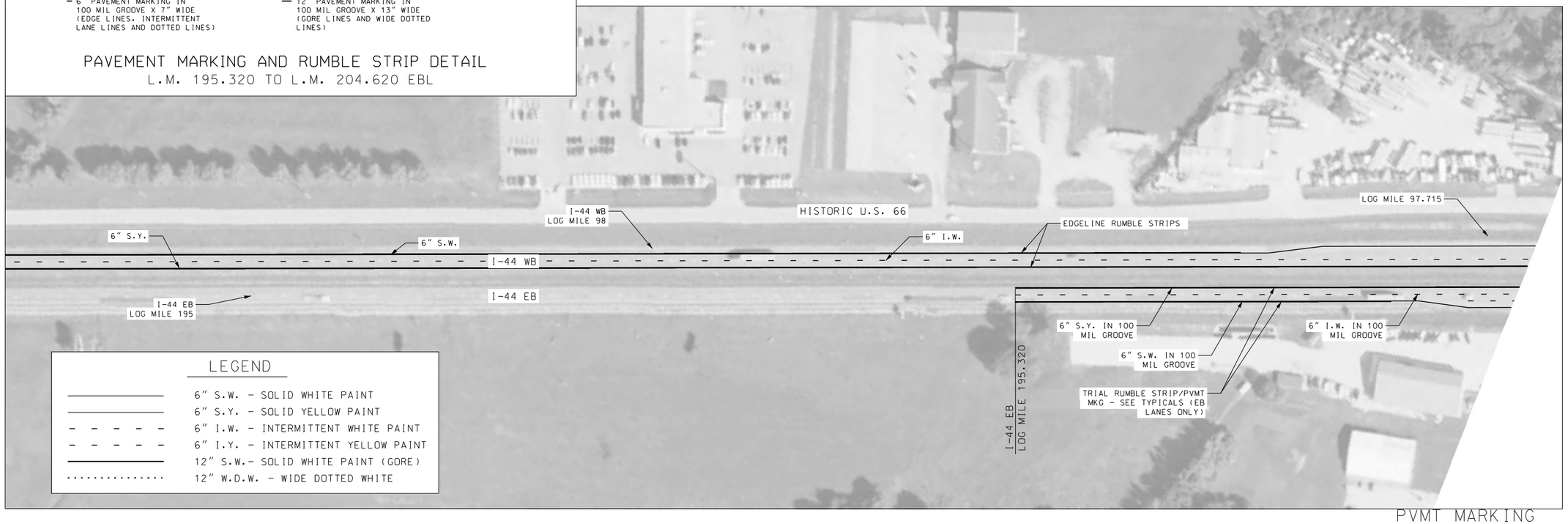


— MILLED IN RUMBLE STRIP

— 6" PAVEMENT MARKING IN 100 MIL GROOVE X 7" WIDE (EDGE LINES, INTERMITTENT LANE LINES AND DOTTED LINES)

— 12" PAVEMENT MARKING IN 100 MIL GROOVE X 13" WIDE (GORE LINES AND WIDE DOTTED LINES)

PAVEMENT MARKING AND RUMBLE STRIP DETAIL
L.M. 195.320 TO L.M. 204.620 EBL



LEGEND

———	6" S.W. - SOLID WHITE PAINT
———	6" S.Y. - SOLID YELLOW PAINT
- - - - -	6" I.W. - INTERMITTENT WHITE PAINT
- - - - -	6" I.Y. - INTERMITTENT YELLOW PAINT
———	12" S.W.- SOLID WHITE PAINT (GORE)
.....	12" W.D.W. - WIDE DOTTED WHITE

PVMT MARKING
SHEET 20 OF 30

STATE OF MISSOURI
JASON S. DOHRMANN
PE-2004017159
PROFESSIONAL ENGINEER

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DATE PREPARED	
9/23/2021	
ROUTE	STATE
I-44	MO
DISTRICT	SHEET NO.
CD	85
COUNTY	
PHELPS	
JOB NO.	
J5I3397	
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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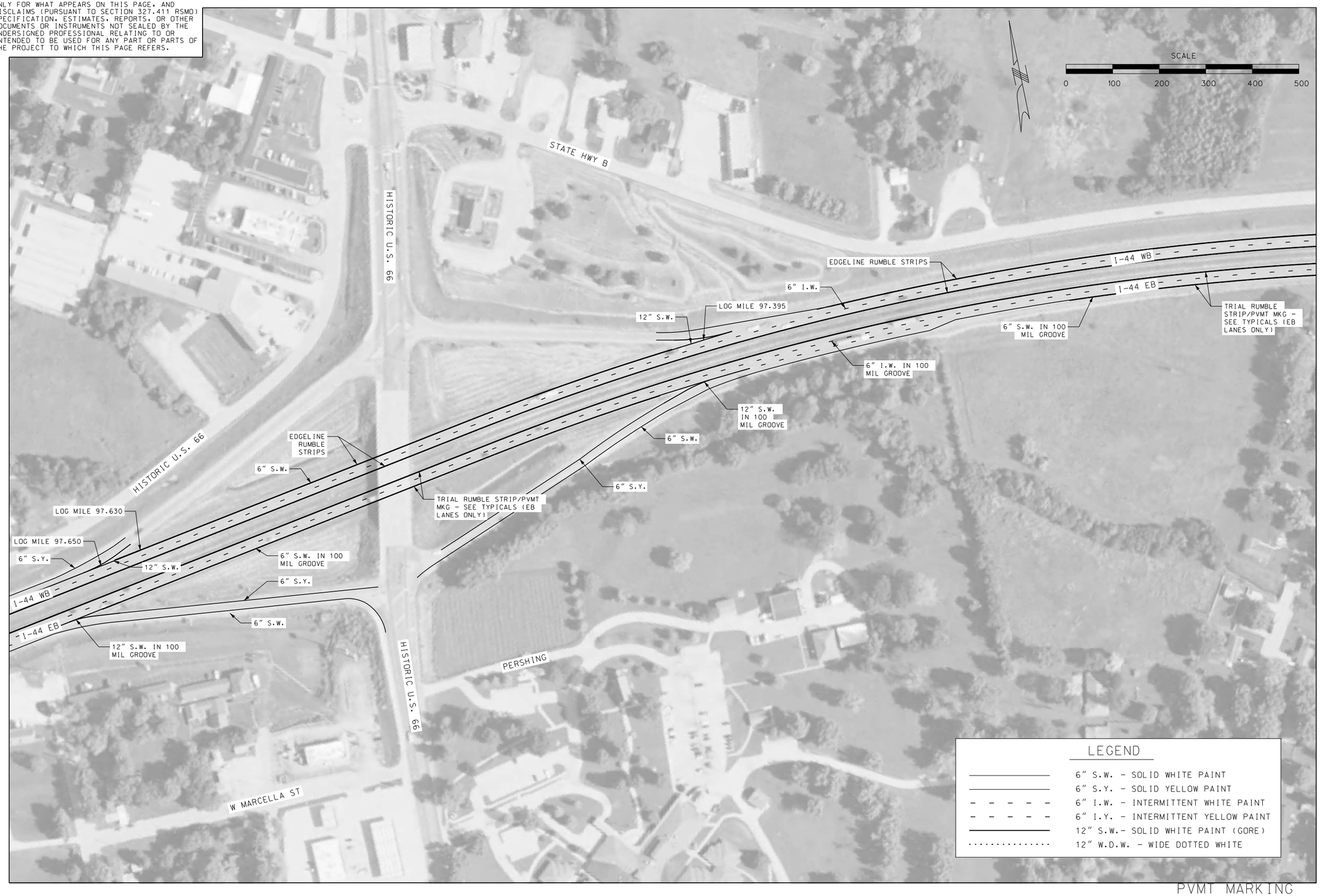

PVMT MARKING
SHEET 21 OF 30

STATE OF MISSOURI
JASON S. DOHRMANN
PE-2004017159
PROFESSIONAL ENGINEER

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

DATE PREPARED
9/23/2021

ROUTE	STATE
I-44	MO
DISTRICT	SHEET NO.
CD	86

COUNTY
PHELPS

JOB NO.
J5I3397

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DATE	DESCRIPTION

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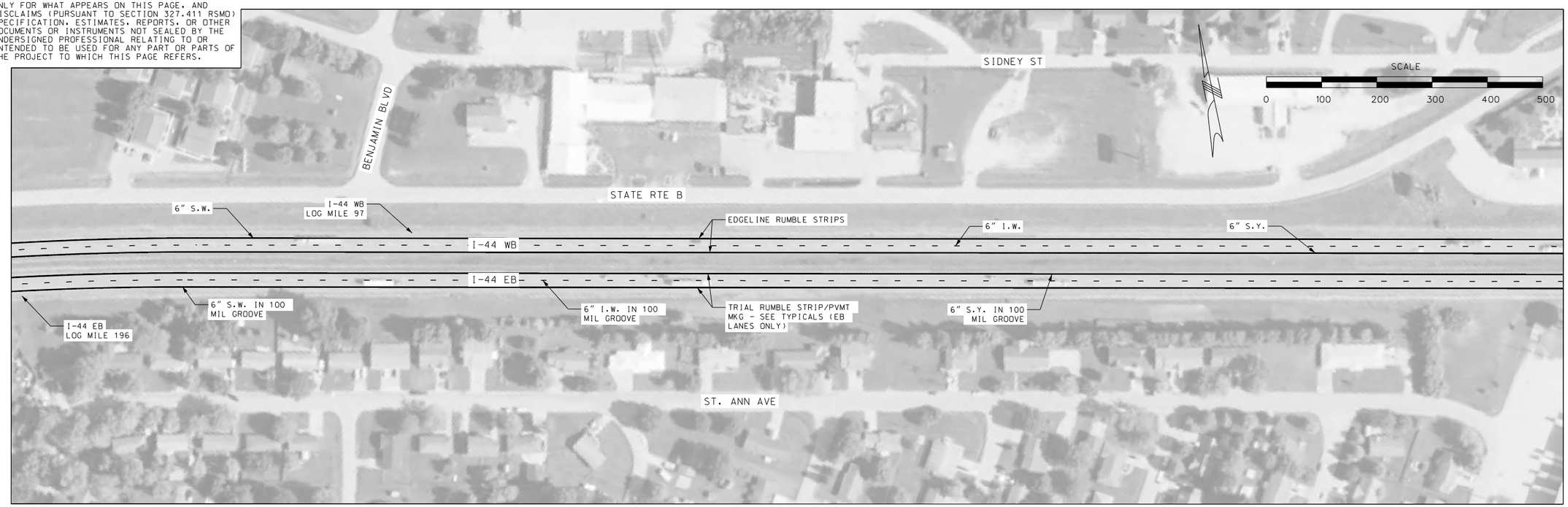

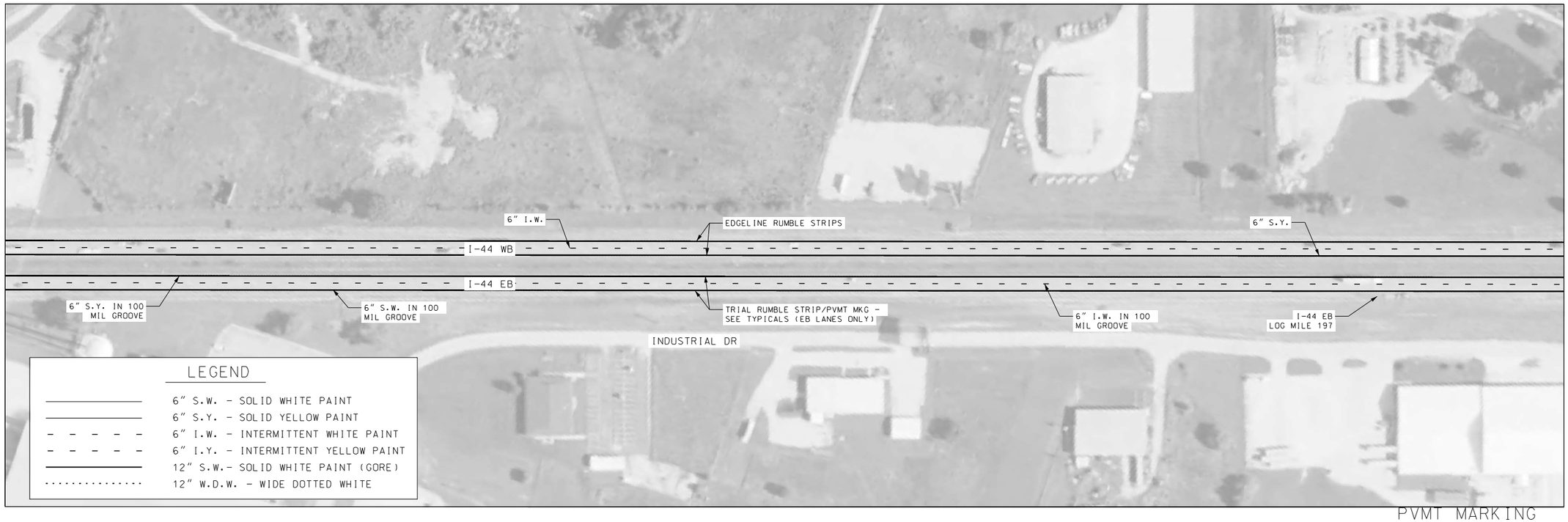

PVMT MARKING
SHEET 22 OF 30

STATE OF MISSOURI
JASON S. DOHRMANN
PE-2004017159
PROFESSIONAL ENGINEER

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DATE PREPARED
9/23/2021

ROUTE	STATE
I-44	MO
DISTRICT	SHEET NO.
CD	87

COUNTY
PHELPS

JOB NO.
J5I3397

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DESCRIPTION	DATE

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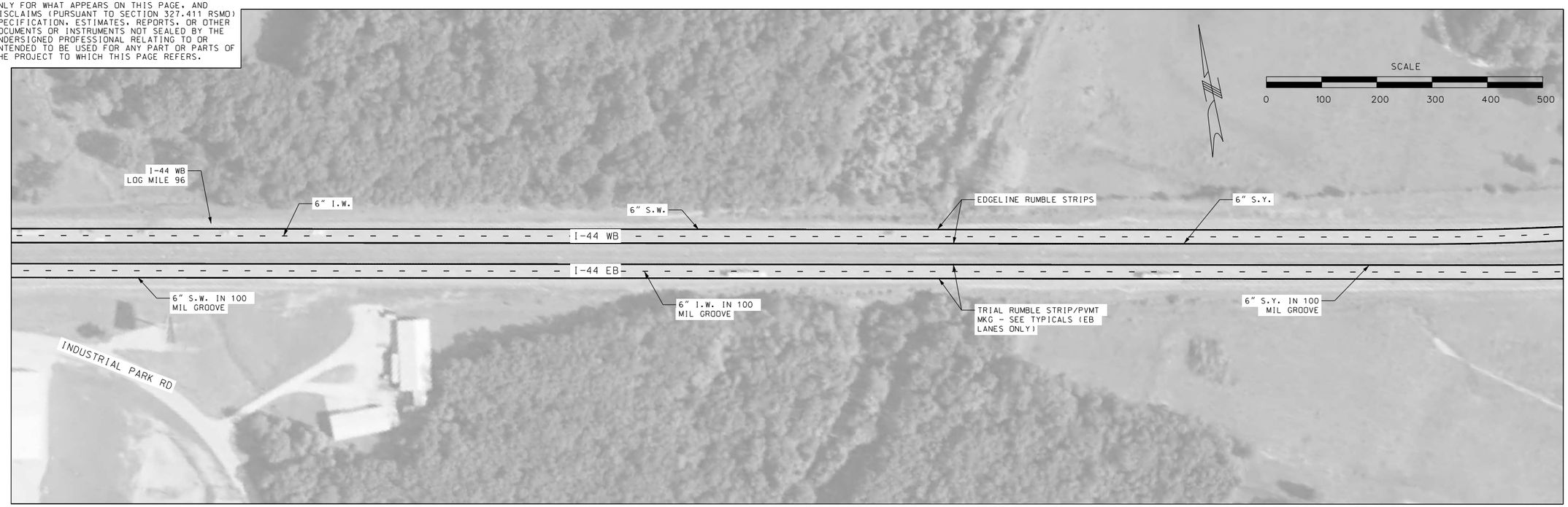

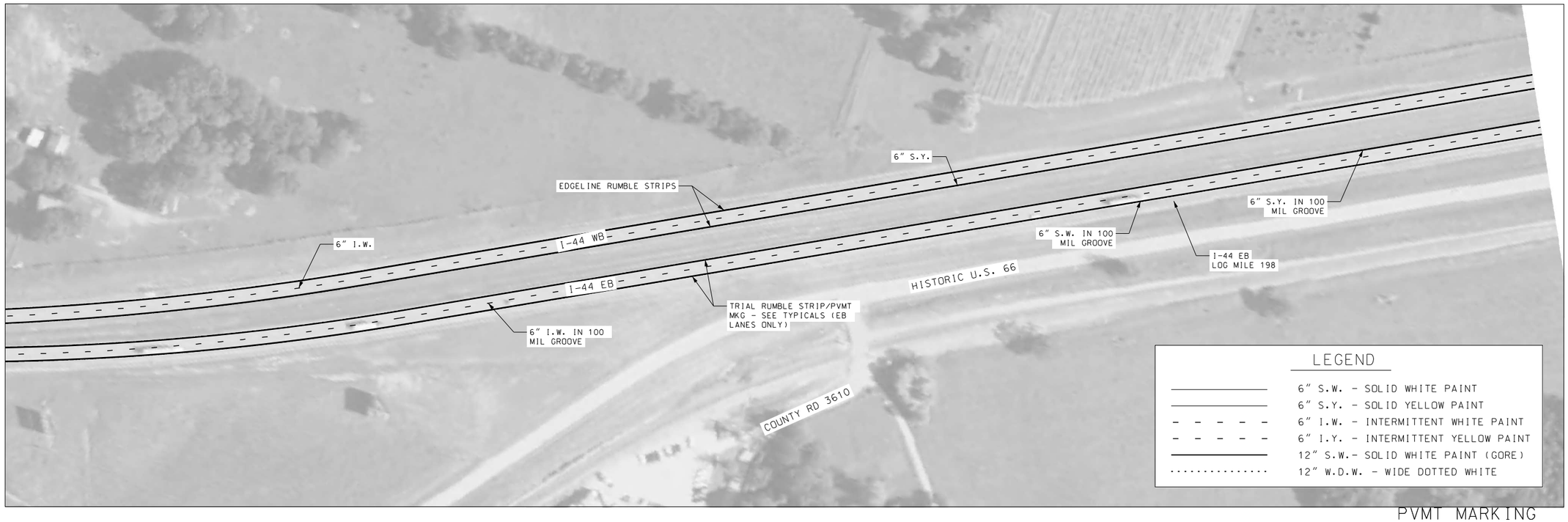

PVMT MARKING
SHEET 23 OF 30

STATE OF MISSOURI
JASON S. DOHRMANN
PE-2004017159
PROFESSIONAL ENGINEER

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DATE PREPARED
9/23/2021

ROUTE	STATE
I-44	MO
DISTRICT	SHEET NO.
CD	88

COUNTY
PHELPS

JOB NO.
J5I3397

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

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DESCRIPTION	DATE

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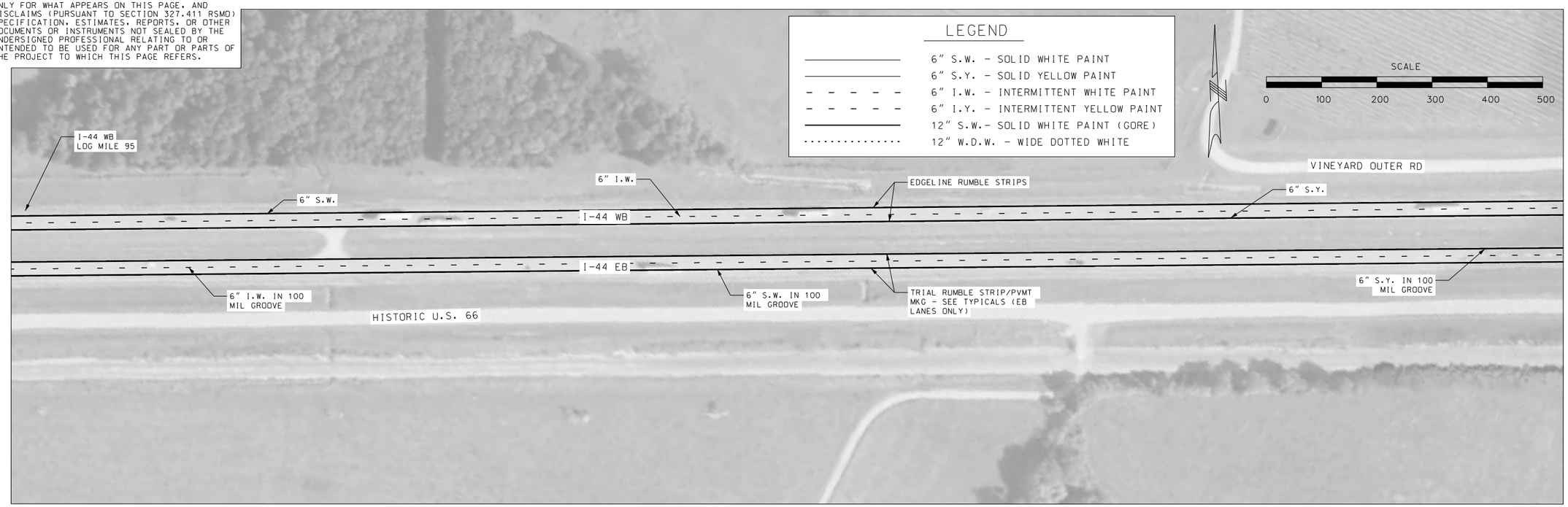

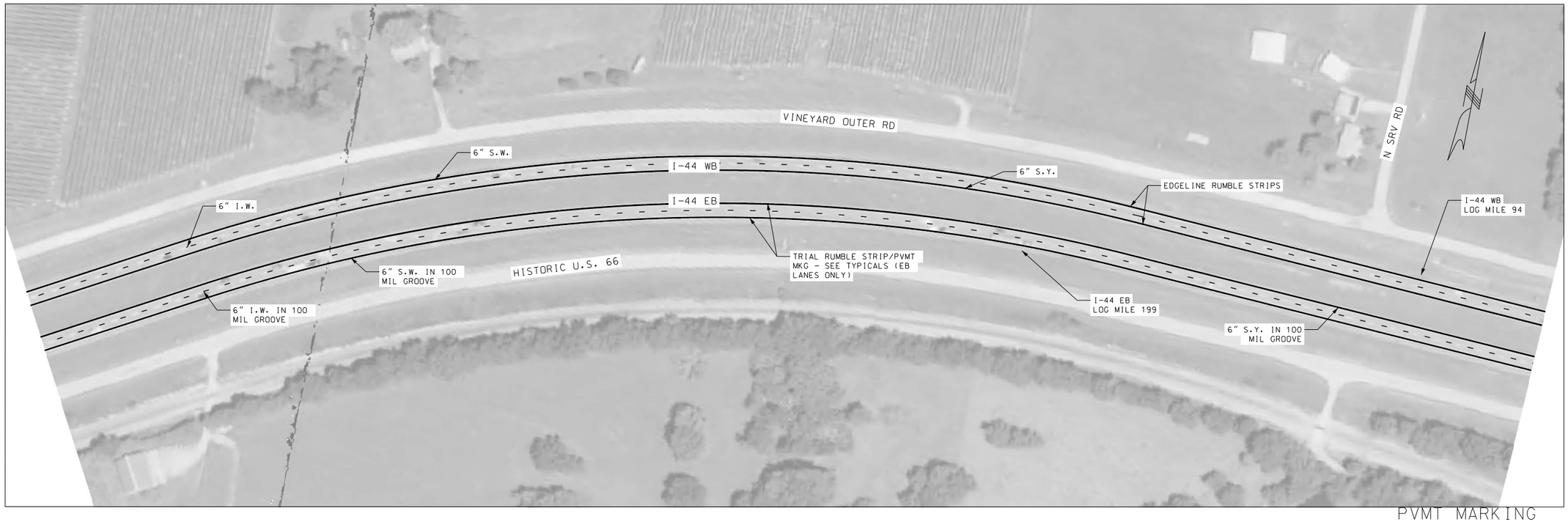

PVMT MARKING
SHEET 24 OF 30

STATE OF MISSOURI
JASON S. DOHRMANN
PE-2004017159
PROFESSIONAL ENGINEER

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DATE PREPARED 9/23/2021
ROUTE I-44 | STATE MO
DISTRICT CD | SHEET NO. 89
COUNTY PHELPS
JOB NO. J5I3397
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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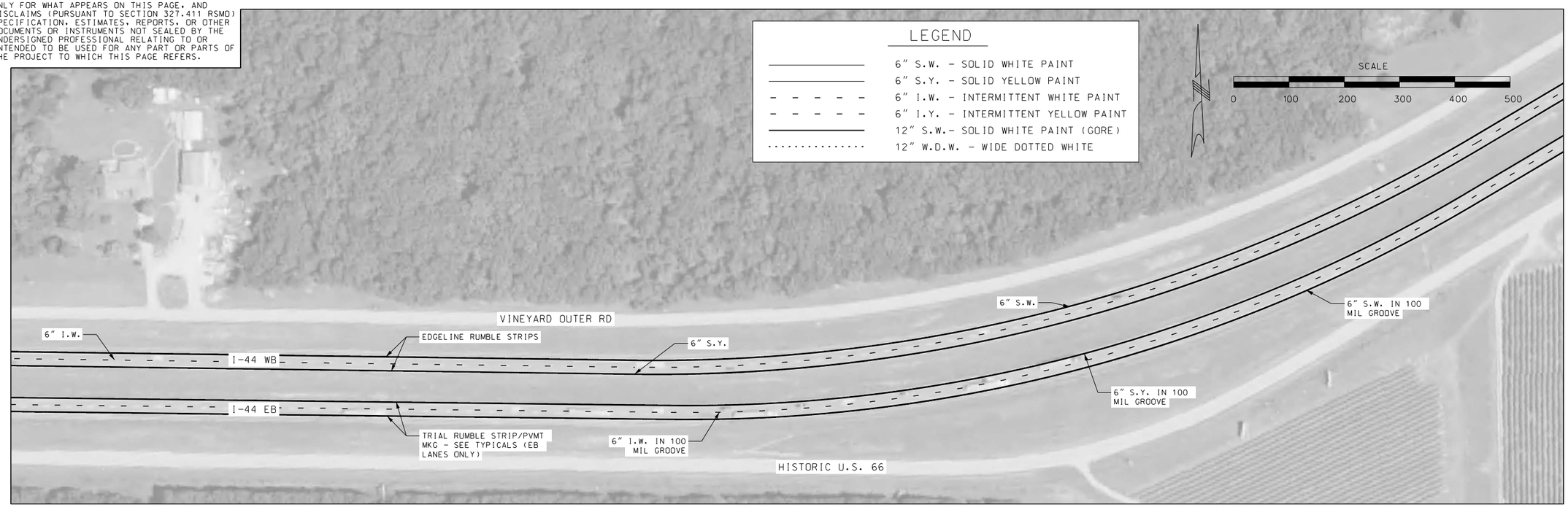

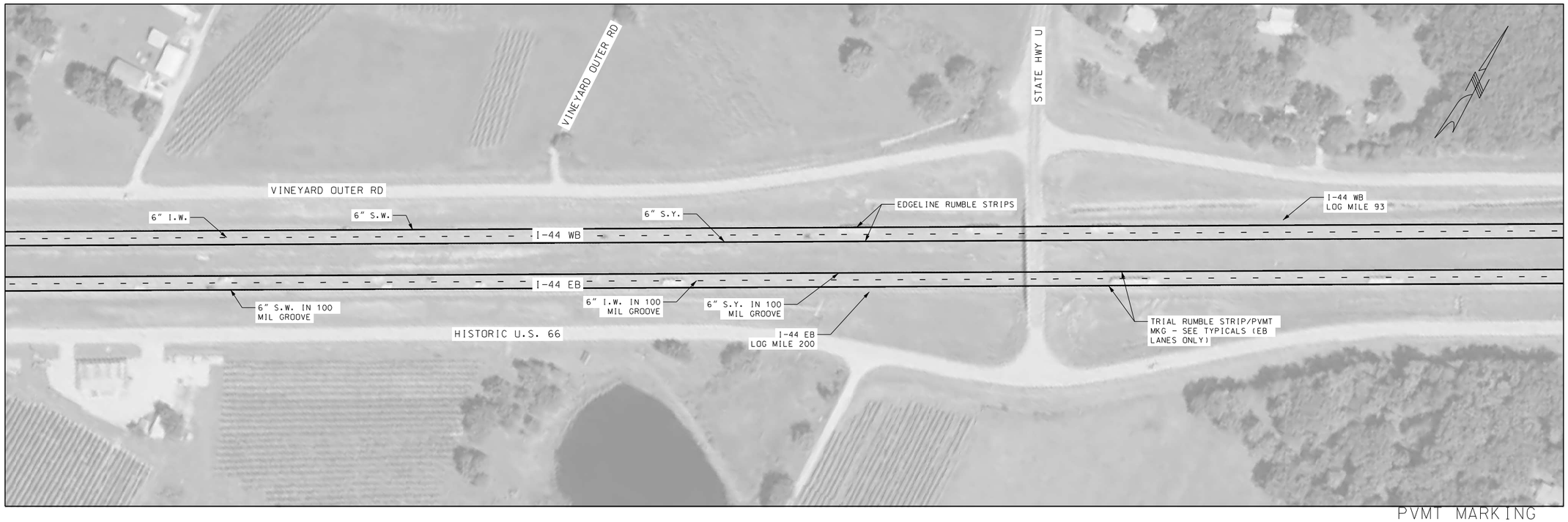

PVMT MARKING
SHEET 25 OF 30

STATE OF MISSOURI
JASON S. DOHRMANN
PE-2004017159
PROFESSIONAL ENGINEER

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

DATE PREPARED
9/23/2021

ROUTE	STATE
I-44	MO
DISTRICT	SHEET NO.
CD	90

COUNTY
PHELPS

JOB NO.
J5I3397

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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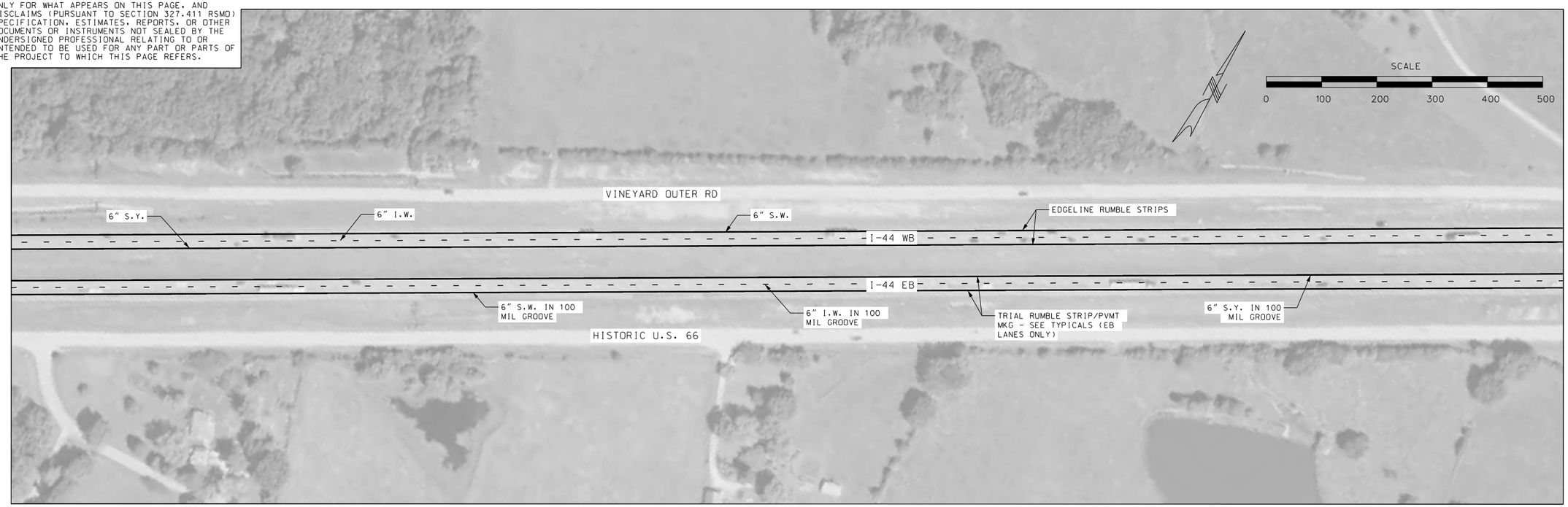

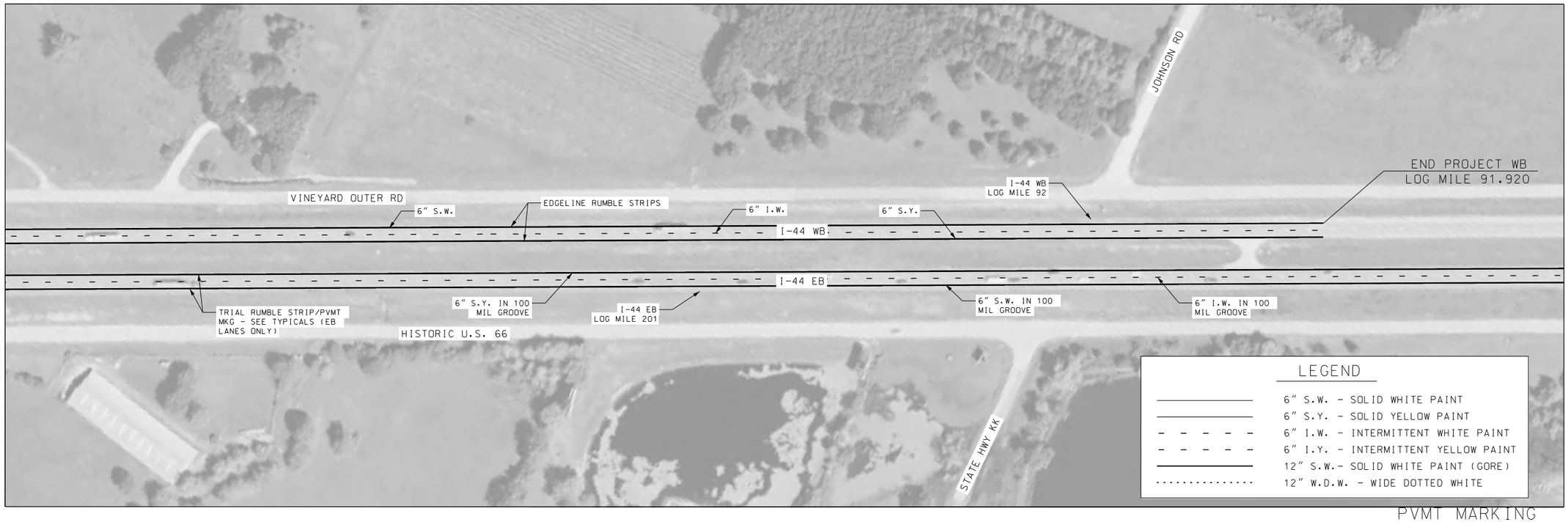

PVMT MARKING
SHEET 26 OF 30

STATE OF MISSOURI
JASON S. DOHRMANN
PE-2004017159
PROFESSIONAL ENGINEER

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DATE PREPARED	
9/23/2021	
ROUTE	STATE
I-44	MO
DISTRICT	SHEET NO.
CD	91

COUNTY: PHELPS
JOB NO.: J5I3397
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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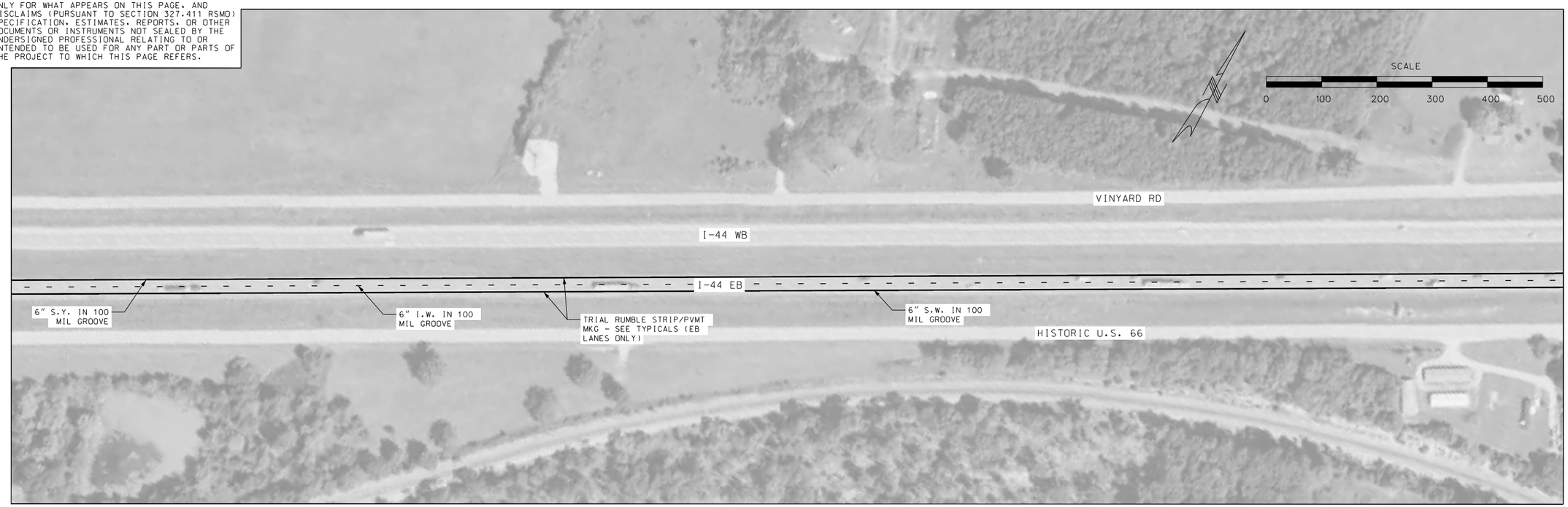

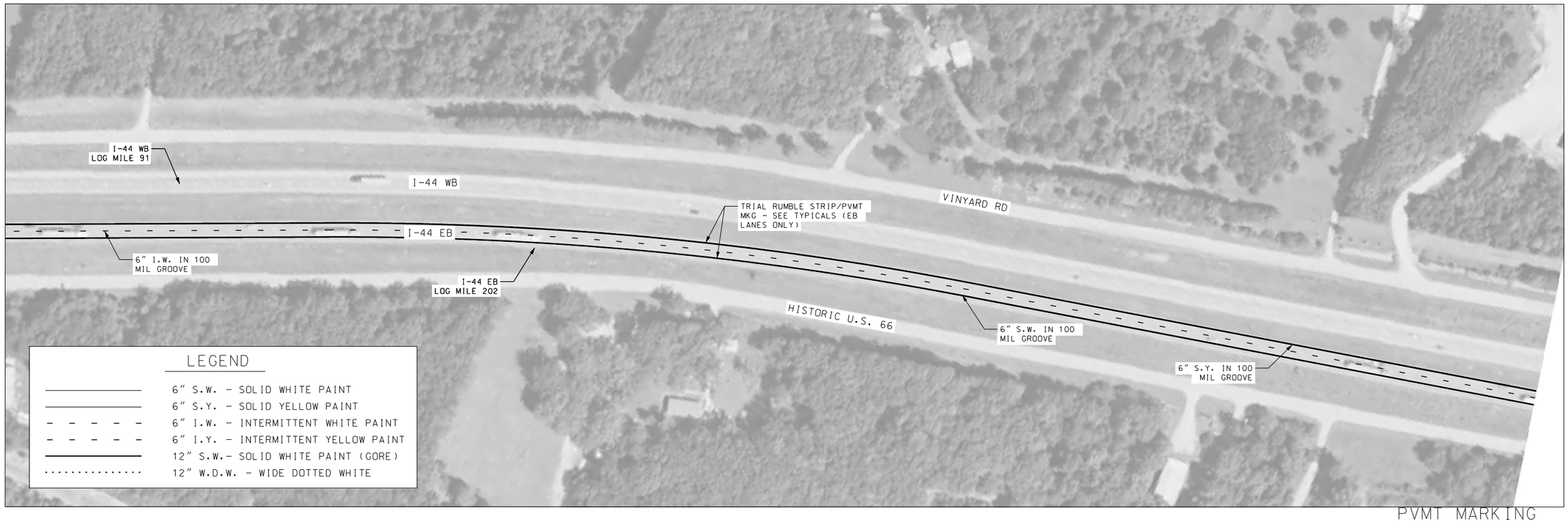

PVMT MARKING
SHEET 27 OF 30

STATE OF MISSOURI
JASON S. DOHRMANN
PE-2004017159
PROFESSIONAL ENGINEER

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DATE PREPARED
9/23/2021

ROUTE	STATE
I-44	MO

DISTRICT	SHEET NO.
CD	92

COUNTY
CRAWFORD

JOB NO.
J5I3397

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DESCRIPTION	DATE

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16020 SWINGLEY RIDGE ROAD.
SUITE 205
ST. LOUIS, MISSOURI 63017
PHONE: (636) 519.0990
CORPORATE LICENSE #2002006608
HRGreen

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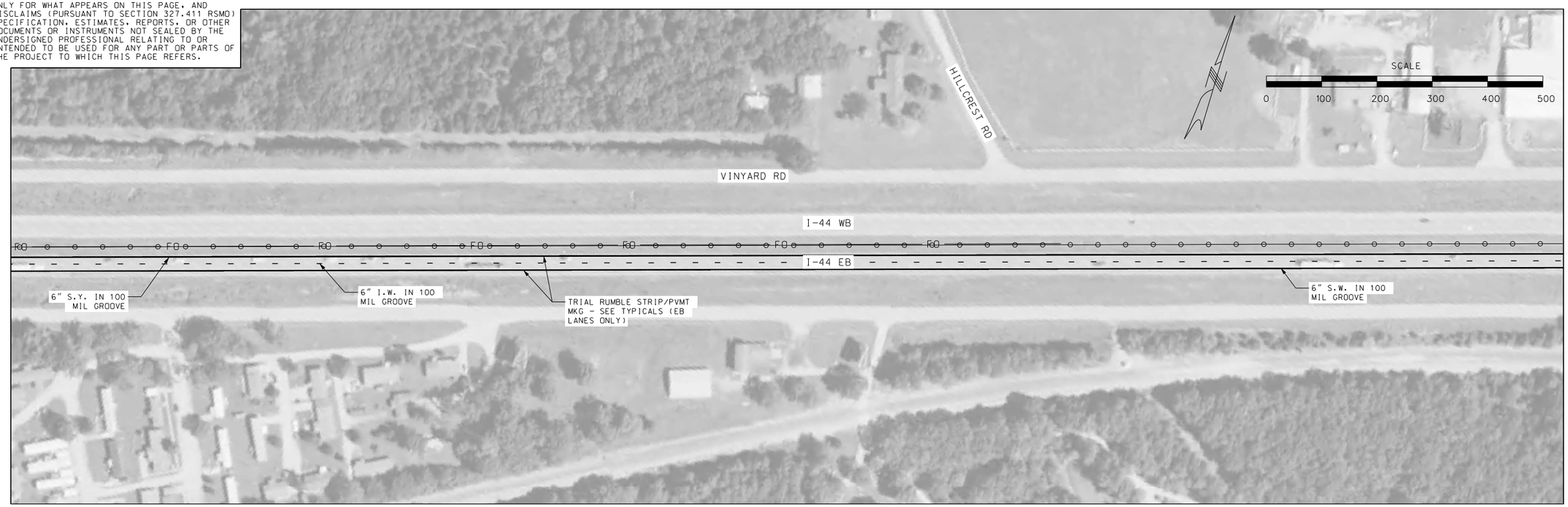

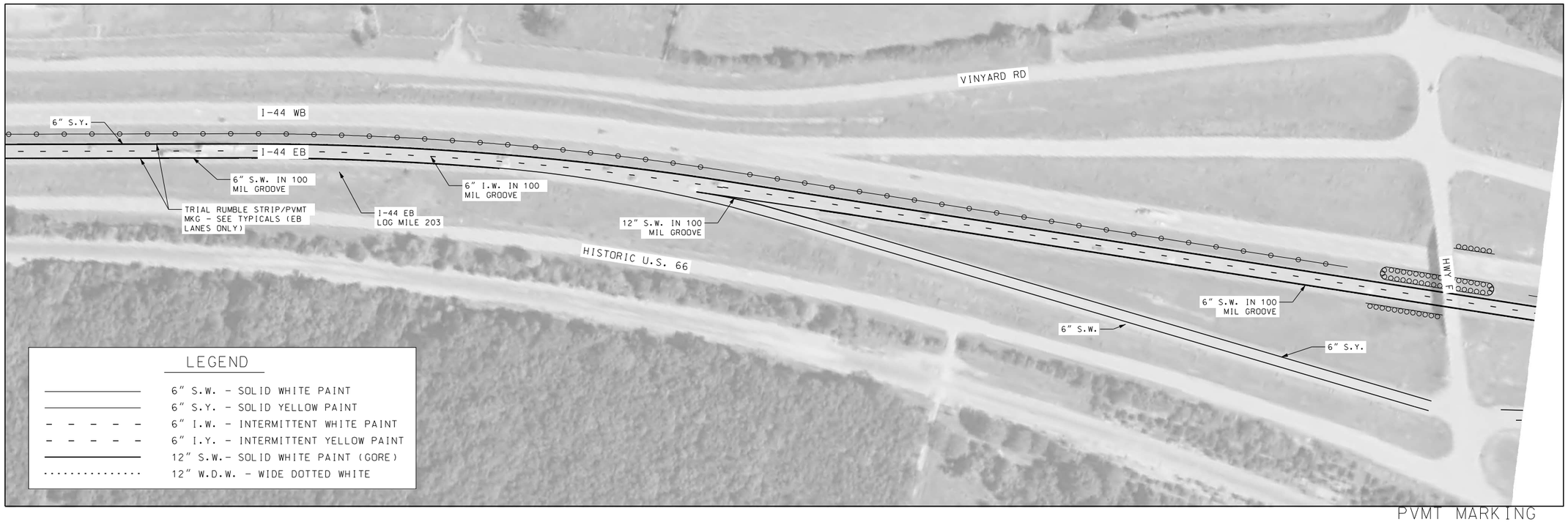

PVMT MARKING
SHEET 28 OF 30

STATE OF MISSOURI
JASON S. DOHRMANN
PE-2004017159
PROFESSIONAL ENGINEER

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

DATE PREPARED
9/23/2021

ROUTE	STATE
I-44	MO
DISTRICT	SHEET NO.
CD	93

COUNTY
CRAWFORD

JOB NO.
J5I3397

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)

HR GREEN, INC.
16020 SWINGLEY RIDGE ROAD,
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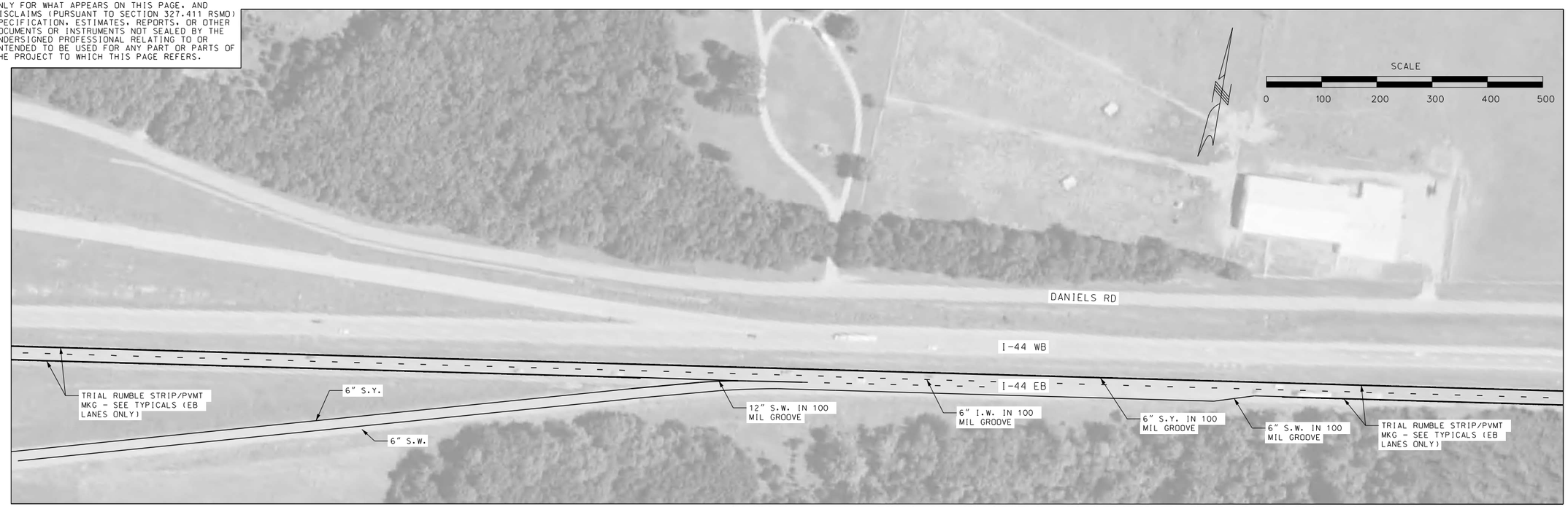

PVMT MARKING
SHEET 29 OF 30

STATE OF MISSOURI
JASON S. DOHRMANN
PE-2004017159
PROFESSIONAL ENGINEER

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

DATE PREPARED
9/23/2021

ROUTE	STATE
I-44	MO
DISTRICT	SHEET NO.
CD	94

COUNTY
CRAWFORD

JOB NO.
J5I3397

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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LEGEND

- 6" S.W. - SOLID WHITE PAINT
- 6" S.Y. - SOLID YELLOW PAINT
- 6" I.W. - INTERMITTENT WHITE PAINT
- 6" I.Y. - INTERMITTENT YELLOW PAINT
- 12" S.W.- SOLID WHITE PAINT (GORE)
- 12" W.D.W. - WIDE DOTTED WHITE

PVMT MARKING
SHEET 30 OF 30

STATE OF MISSOURI
JASON S. DOHRMANN
PE-2004017159
PROFESSIONAL ENGINEER

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

DATE PREPARED
9/23/2021

ROUTE	STATE
I-44	MO
DISTRICT	SHEET NO.
CD	95

COUNTY
CRAWFORD

JOB NO.
J5I3397

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DESCRIPTION	DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

105 WEST CAPITOL
JEFFERSON CITY, MO 65102
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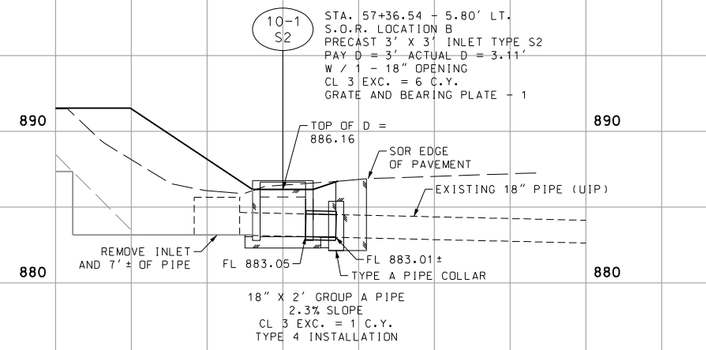

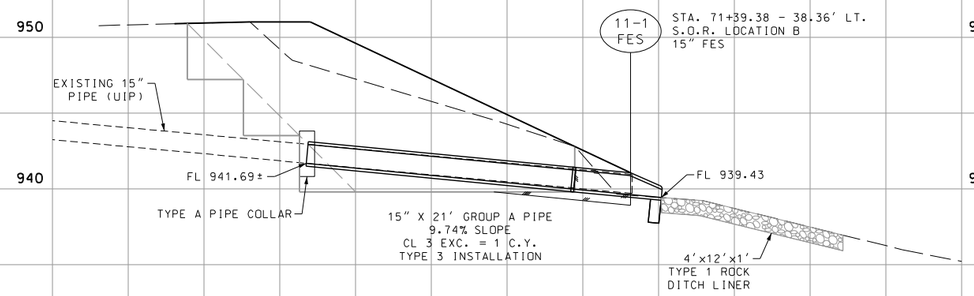

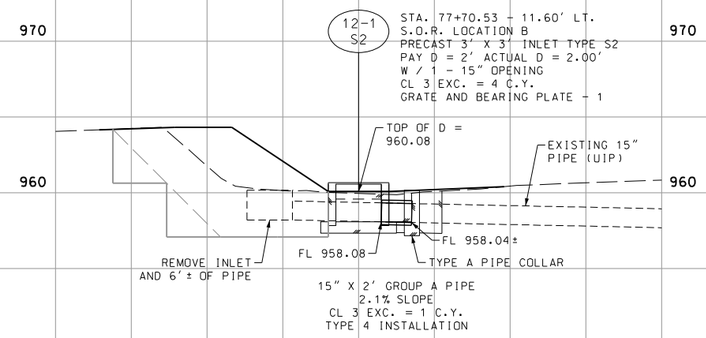

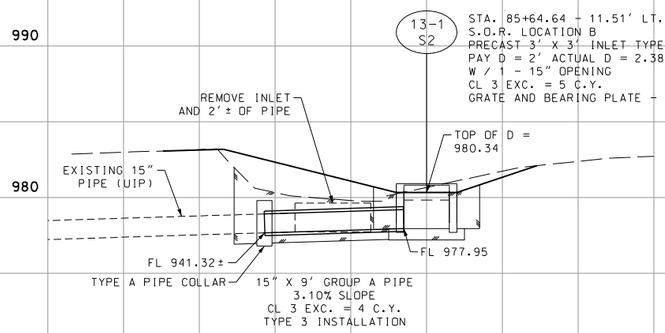

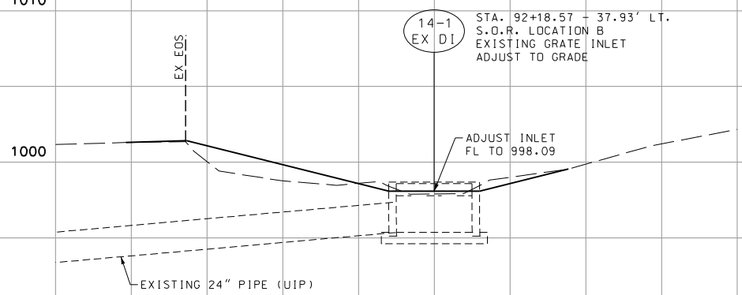

CULVERT SECTION
LOCATION B
MARTIN SPRINGS DRIVE
AT ROUTE 72
SHEET 1 OF 2

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED: 9/8/2021
ROUTE: I-44 | STATE: MO
DISTRICT: CD | SHEET NO.: 96
COUNTY: PHELPS-CRAWFORD
JOB NO.: J5I3397
CONTRACT ID.:
PROJECT NO.:
BRIDGE NO.:

DESCRIPTION | DATE | REV.

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

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

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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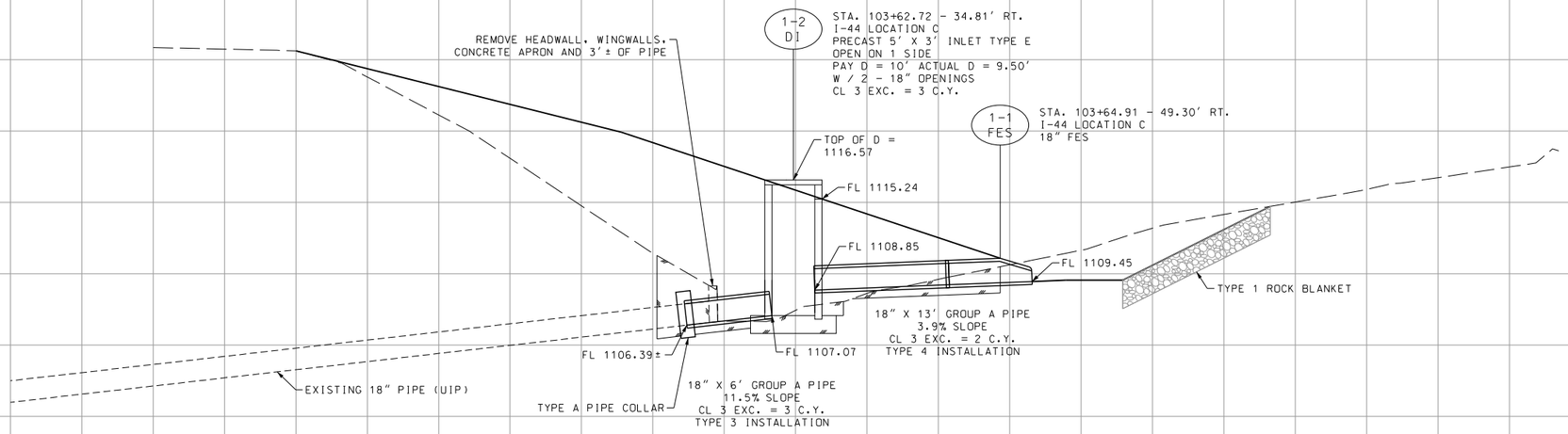

CULVERT SECTION
LOCATION C
ROUTE 72 EASTBOUND
ON-RAMP
SHEET 2 OF 2

STATE OF MISSOURI
PAUL JOSEPH KRONLAGE
NUMBER EN 023328
REGISTERED PROFESSIONAL ENGINEER
THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED 9/8/2021
ROUTE I-44 | STATE MO
DISTRICT CD | SHEET NO. 97
COUNTY PHELPS-CRAWFORD
JOB NO. J5I3397
CONTRACT ID.
PROJECT NO.
BRIDGE NO.

DESCRIPTION | DATE | REV.

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JEFFERSON CITY, MO 65102
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Civil Engineering Design
13523 Barrett Parkway Dr
Suite 250
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Fax 314-394-3199
Missouri Certificate of Authority: 001578

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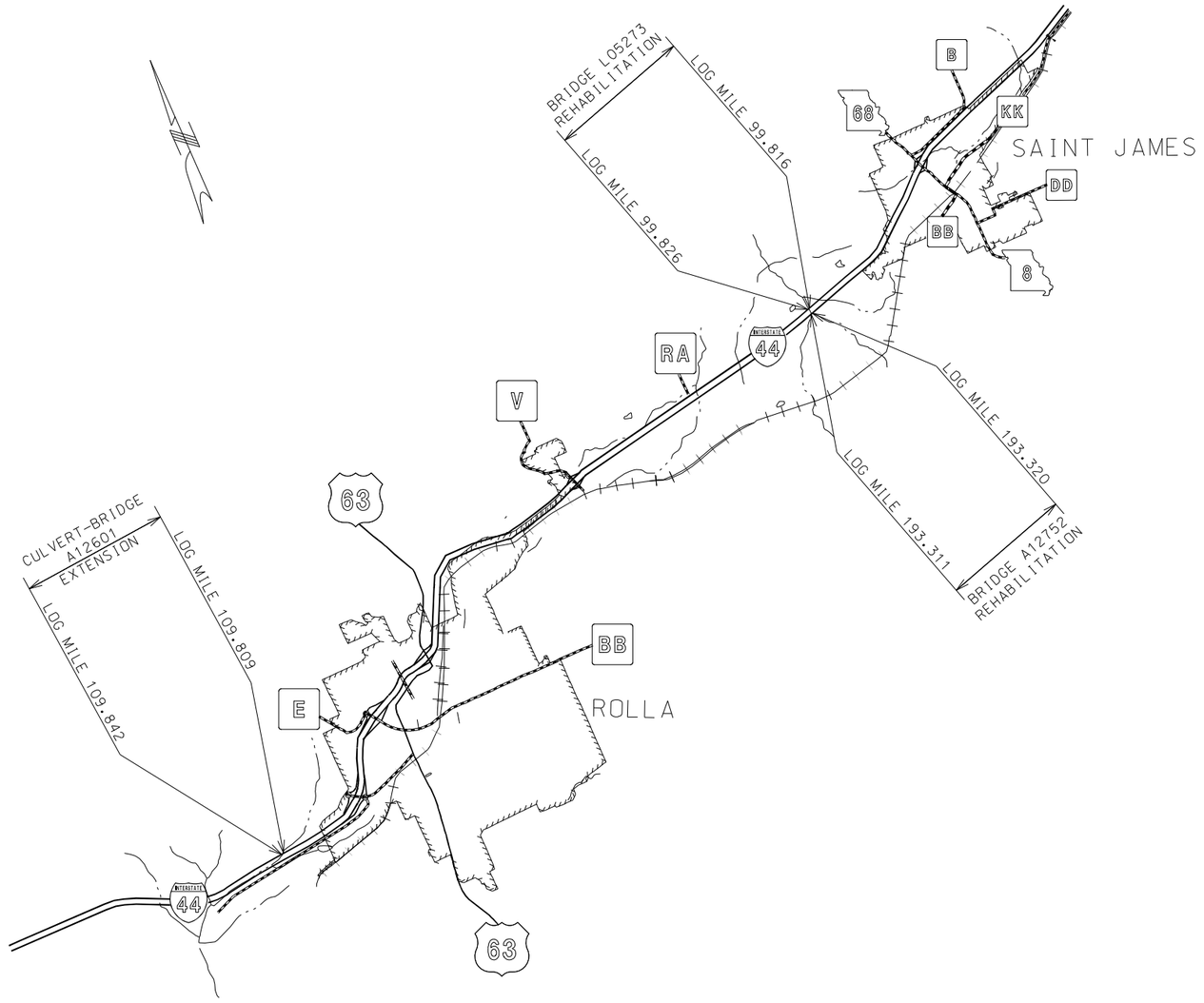
MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
PLANS FOR PROPOSED
STATE HIGHWAY
PHELPS COUNTY



DESIGN DESIGNATION (WESTBOUND)

A.A.D.T. - 2016 = 15,860
A.A.D.T. - 2036 = 17,460
T = 30%
V = 70

FUNCTIONAL CLASSIFICATION-INTERSTATE

DESIGN DESIGNATION (EASTBOUND)

A.A.D.T. - 2016 = 18,100
A.A.D.T. - 2036 = 20,210
T = 31%
V = 70

FUNCTIONAL CLASSIFICATION-INTERSTATE

NO NEW R/W

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

THE EXISTENCE AND APPROXIMATE LOCATION OF UTILITY FACILITIES KNOWN TO EXIST, AS SHOWN ON THE PLANS, ARE BASED ON THE BEST INFORMATION AVAILABLE TO THE COMMISSION AT THIS TIME. THIS INFORMATION IS PROVIDED BY THE COMMISSION "AS-IS" AND THE COMMISSION EXPRESSLY DISCLAIMS ANY REPRESENTATION OR WARRANTY AS TO THE COMPLETENESS, ACCURACY, OR SUITABILITY OF THE INFORMATION FOR ANY USE. RELIANCE UPON THIS INFORMATION IS DONE AT THE RISK AND PERIL OF THE USER, AND THE COMMISSION SHALL NOT BE LIABLE FOR ANY DAMAGES THAT MAY ARISE FROM ANY ERROR IN THE INFORMATION. IT IS, THEREFORE, THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY THE EXISTENCE, LOCATION AND STATUS OF ANY FACILITY. SUCH VERIFICATION INCLUDES DIRECT CONTACT WITH THE LISTED UTILITIES.

INDEX OF SHEETS

DESCRIPTION	SHEET NUMBER
TITLE SHEET	1
QUANTITIES (QU) (3 SHEETS)	2
PLAN SHEET (PL) (3 SHEETS)	3-5
TRAFFIC CONTROL SHEETS (TC)	6-10
BRIDGE SHEETS (B)	
A12601	1-2
A12752	1-4
L05273	1

WESTBOUND LENGTH OF PROJECT

BEGINNING OF PROJECT	LOG MILE 99.816	
END OF PROJECT	LOG MILE 109.842	
APPARENT LENGTH	52.937.280	FEET
EQUATIONS AND EXCEPTIONS:	52.710.240	FEET
TOTAL CORRECTIONS	52.710.240	FEET
NET LENGTH OF PROJECT	227.04	FEET
STATE LENGTH	0.043	MILES

EASTBOUND LENGTH OF PROJECT

BEGINNING OF PROJECT	LOG MILE 193.311	
END OF PROJECT	LOG MILE 193.320	
APPARENT LENGTH	47.520	FEET
EQUATIONS AND EXCEPTIONS:	0.000	FEET
TOTAL CORRECTIONS	0.000	FEET
NET LENGTH OF PROJECT	47.520	FEET
STATE LENGTH	0.009	MILES
FOR INFORMATION ONLY ESTIMATED DISTURBED ACRES	0.6	ACRES

STATE OF MISSOURI
JASON S. DOHRMANN
PE-2004017159
PROFESSIONAL ENGINEER

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

DATE PREPARED: 9/24/2021
ROUTE: I-44 | STATE:
DISTRICT: CD | SHEET NO.: 1
COUNTY: PHELPS
JOB NO.: J5I3482
CONTRACT ID.:
PROJECT NO.:
BRIDGE NO.:

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

DESCRIPTION	DATE

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

HR GREEN, INC.
16020 SWINGLEY RIDGE ROAD.
SUITE 205
ST. LOUIS, MISSOURI 63017
PHONE: (636) 519.0990
CORPORATE LICENSE #2002006608

MGS GUARDRAIL - EB LANES

LOG MILE	LOG MILE	LOCATION	DISTANCE (FT)	MGS GUARDRAIL (LF)	TYPE A CRASHWORTHY (MASH) (EA)	MGS VERT BARRIER TRANS SEC (EA)	BRIDGE APP. TRANSITION (NO CURB) (EA)	SHAPING SLOPES CL III 100 FT	REMARKS
193.258	193.310	EBL-LT	312.000	250.0	1	1			
193.266	193.310	EBL-RT	252.000	187.5	1	1			
			SUBTOTAL	437.5	2	2		0	
			SUBTOTAL (1)	375.0	2		2	1	(1) SUBTOTAL FROM WBL GUARDRAIL TABLE
			PAY TOTAL	813.0	4	2	2	1	

MGS GUARDRAIL - WB LANES

LOG MILE	LOG MILE	LOCATION	DISTANCE (FT)	MGS GUARDRAIL (LF)	TYPE A CRASHWORTHY (MASH) (EA)	MGS VERT BARRIER TRANS SEC (EA)	BRIDGE APP. TRANSITION (NO CURB) (EA)	SHAPING SLOPES CL III 100 FT	REMARKS
99.820	99.760	WBL-LT	252.000	187.5	1		1		
99.820	99.760	WBL-RT	252.000	187.5	1		1		
99.826	99.845	WBL-LT	100.000					1	
			SUBTOTAL (1)	375	2	0	2	1	(1) SEE EBL MGS GUARDRAIL TABLE FOR PAY TOTAL

COLDMILL FOR REMOVAL OF BITUMINOUS PAVEMENT - WB LANES

LOG MILE	LOG MILE	LOCATION	LENGTH (FT)	AVERAGE WIDTH (FT)	AREA SF	AREA SY	THICKNESS (IN)	REMARKS
99.776	99.820	WBL	232.3	VAR.	8436	937	0 TO 1.25	
99.826	99.852	WBL	137.3	VAR.	7919	880	0 TO 1.25	
					SUBTOTAL	1,817.00		
					PAY TOTAL	1,817.00		

ROCK DITCH LINER

SHEET NO	LOG MILE	LOCATION	AREA SF	FURNISHING TYPE 1 ROCK DITCH LINER CY	PLACING TYPE 1 ROCK DITCH LINER CY	REMARKS
1	99.826	WBL-LT	159	4	4	3' WIDE, 8" THICK
1	99.826	WBL-CNTR	318	8	8	3' WIDE, 8" THICK
1	99.826	WBL-RT	159	4	4	3' WIDE, 8" THICK
1	99.820	WBL-LT	159	4	4	3' WIDE, 8" THICK
1	99.820	WBL-CNTR	318	8	8	3' WIDE, 8" THICK
1	99.820	WBL-RT	159	4	4	3' WIDE, 8" THICK
			SUBTOTAL	32.00	32.00	
			PAY TOTAL	32	32	

ROCK BLANKET, 2'-0" THICK

SHEET NO	LOG MILE	LOCATION	AREA	FURNISHING TYPE 2 ROCK BLANKET CY	PLACING TYPE 2 ROCK BLANKET CY
3	109.825	WBL-LT	715	53	53
3	109.825	WBL-RT	715	53	53
			SUBTOTAL	106.00	106.00
			PAY TOTAL	106	106

EROSION CONTROL

PLAN SHEET NO	LOG MILE	LOCATION	SILT FENCE L.F.	SEDIMENT REMOVAL CY	REMARKS
1	99.826	WBL-LT	28		
1	99.826	WBL-CNTR	39		
1	99.826	WBL-RT	20		
1	99.820	WBL-LT	28		
1	99.820	WBL-CNTR	39		
1	99.820	WBL-RT	20		
3	109.820	WBL-LT	39		
3	109.820	WBL-RT	39		
3	109.830	WBL-LT	39		
3	109.830	WBL-RT	39		
		SUBTOTAL	330	3.3	
		PAY TOTAL	330	4	

REMOVAL OF IMPROVEMENTS - WB LANES

LOG MILE	LOG MILE	LOCATION	APPROX QUANTITY LF	DESCRIPTION
109.730	109.837	WBL-LT	545.00	EXIST GUARDRAIL, POSTS, END ANCHORS, CET'S
109.800	109.825	WBL-RT	130.00	EXIST GUARDRAIL, POSTS, END ANCHORS, CET'S
REMOVAL OF IMPROVEMENTS = 1 LUMP SUM				

MOBILIZATION	1 LUMP SUM
ADDITIONAL MOBILIZATION FOR SEEDING	2 EACH
SEEDING - COOL SEASON MIXTURES	0.6 ACRES
CONTRACTOR FURNISHED SURVEYING AND STAKING	1 LUMP SUM
WORK ZONE INTELLIGENT TRANSPORTATION SYSTEM	1 LUMP SUM

SUMMARY OF QUANTITIES
SHEET 1 OF 3

STATE OF MISSOURI
JASON S. DOHRMANN
PE-2004017159
PROFESSIONAL ENGINEER

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

DATE PREPARED
9/24/2021

ROUTE	STATE
I-44	MO

DISTRICT	SHEET NO.
CD	2

COUNTY
PHELPS

JOB NO.
J5I3482

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

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

DESCRIPTION	DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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

HR GREEN, INC.
16020 SWINGLEY RIDGE ROAD,
SUITE 205
ST. LOUIS, MISSOURI 63017
PHONE: (636) 519.0990
CORPORATE LICENSE #2002006608

HRGreen

PERMANENT PAVEMENT MARKING

LOG MILE	LOG MILE	LOCATION	LENGTH FT	HIGH BUILD WATERBORNE PAVEMENT MARKING WITH TYPE L BEADS			REMARKS
				6" INTER. WHITE LF	6" SOLID WHITE LF	6" SOLID YELLOW LF	
99.778	99.863	WBL	449	112	449	449	
193.311	193.320	EBL	48	12	48	48	
			SUBTOTAL	124	497	497	
				6" WHITE		6" YELLOW	
			PAY TOTAL	630		500	

TEMPORARY PAVEMENT MARKING (FOR INFORMATION ONLY)

LOG MILE	LOG MILE	LOCATION	LENGTH FT	STANDARD WATERBORNE PAVEMENT MARKING PAINT, TYPE L BEADS			REMARKS
				4" SOLID WHITE LF	4" SOLID YELLOW LF	PAVEMENT REMOVAL LF	
99.415	99.619	WBL	1077	1077			TAPER (WHEN RT. LANE CLOSED)
99.619	99.826	WBL	1093	1093			EDGE LINE ALONG BARRIER (RT. LANE CLOSURE)
99.415	99.619	WBL	1077	1077			TAPER (WHEN LT. LANE CLOSED)
99.619	99.826	WBL	1093	1093			EDGE LINE ALONG BARRIER (LT. LANE CLOSURE)
99.415	99.619	WBL	1077			1077	EX. INTERMITTENT LINE
			SUBTOTAL	4340	0	1077	TRAFFIC CONTROL FOR EB HANDLED BY J5I3572
			PAY TOTAL	0		0	

CULVERT EARTHWORK

LOG MILE	LOCATION	SIDE	EMBANKMENT IN PLACE CY	COMPACTING EMBANKMENT * CY	MOD. CL. 2 LINEAR GRADING STA	REMARKS
109.842	WBL	LT	120	102	0.5	
109.809	WBL	RT	90	77	0.5	
		SUBTOTAL	210	179	1	
		PAY TOTAL	210	180	1	

* NOTE SHRINKAGE FACTOR OF 85% APPLIED TO COMPACTING EMBANKMENT QUANTITY

SUMMARY OF QUANTITIES
SHEET 2 OF 3

STATE OF MISSOURI
JASON S. DOHRMANN
PE-2004017159
PROFESSIONAL ENGINEER

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DATE PREPARED: 9/24/2021
ROUTE: I-44 | STATE: MO
DISTRICT: CD | SHEET NO.: 2
COUNTY: PHELPS
JOB NO.: J5I3482
CONTRACT ID.:
PROJECT NO.:
BRIDGE NO.:

DESCRIPTION | DATE

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

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EFFECTIVE: 04-01-2021

SIGN	SIZE IN.	AREA SQ.FT.	QTY EACH	TOTAL AREA SQ.FT.	QTY RELOC EACH	TOTAL RELOC SQ.FT.	SIGN NUM.	DESCRIPTION
WARNING SIGNS								
W01-1L	48X48	16.00						TURN (SYMBOL LEFT ARROW)
W01-1R	48X48	16.00						TURN (SYMBOL RIGHT ARROW)
W01-2L	48X48	16.00						CURVE (SYMBOL LEFT ARROW)
W01-2R	48X48	16.00						CURVE (SYMBOL RIGHT ARROW)
W01-3L	48X48	16.00						REVERSE TURN (SYMBOL LEFT ARROW)
W01-3R	48X48	16.00						REVERSE TURN (SYMBOL RIGHT ARROW)
W01-4L	48X48	16.00						REVERSE CURVE (SYMBOL LEFT ARROW)
W01-4R	48X48	16.00						REVERSE CURVE (SYMBOL RIGHT ARROW)
W01-4bL	48X48	16.00						DOUBLE ARROW REVERSE CURVE (SYMBOL LT ARROWS)
W01-4bR	48X48	16.00						DOUBLE ARROW REVERSE CURVE (SYMBOL RT ARROWS)
W01-4cL	48X48	16.00						TRIPLE ARROW REVERSE CURVE (SYMBOL LT ARROWS)
W01-4cR	48X48	16.00						TRIPLE ARROW REVERSE CURVE (SYMBOL RT ARROWS)
W01-6	60X30	12.50						HORIZONTAL ARROW (SYMBOL)
W01-6a	72X36	18.00						HORIZ. ARROW (SYMBOL ON PERMANENT BARRICADE)
W01-7	60X30	12.50						DOUBLE HEAD HORIZONTAL ARROW (SYMBOL)
W01-7a	72X36	18.00						DOUBLE HEAD HORIZ. ARROW (SYMBOL ON PERM. BARR.)
W01-8	18X24	3.00						CHEVRON (SYMBOL)
W01-8a	30X36	7.50						CHEVRON (SYMBOL FOR DIVIDED HIGHWAYS)
W03-1	48X48	16.00						STOP AHEAD (SYMBOL)
W03-2	48X48	16.00						YIELD AHEAD (SYMBOL)
W03-3	48X48	16.00						SIGNAL AHEAD (SYMBOL)
W03-4	48X48	16.00						BE PREPARED TO STOP
W03-5	48X48	16.00						SPEED LIMIT AHEAD
W04-1L	48X48	16.00						MERGE (SYMBOL FROM LEFT)
W04-1R	48X48	16.00						MERGE (SYMBOL FROM RIGHT)
W04-1aL	48X48	16.00	1	16.00			6a	MERGE (ARROW SYMBOL)
W04-1aR	48X48	16.00	1	16.00			6a	MERGE (ARROW SYMBOL)
W05-1	48X48	16.00						ROAD/BRIDGE/RAMP NARROWS
W05-3	48X48	16.00						ONE LANE BRIDGE
W05-5	48X48	16.00						NARROW LANES
W06-1	48X48	16.00						DIVIDED HIGHWAY (SYMBOL)
W06-2	48X48	16.00						DIVIDED HIGHWAY END (SYMBOL)
W06-3	48X48	16.00						TWO WAY TRAFFIC (SYMBOL)
W07-3a	30X24	5.00						NEXT XX MILES (PLAQUE)
W08-1	48X48	16.00						BUMP
W08-2	48X48	16.00						DIP
W08-3	48X48	16.00						PAVEMENT ENDS
W08-4	48X48	16.00						SOFT SHOULDER
W08-5	48X48	16.00						SLIPPERY WHEN WET (SYMBOL)
W08-6	48X48	16.00						TRUCK CROSSING (WITH FLAGS)
W08-6c	48X48	16.00						TRUCK ENTRANCE
W08-7	36X36	9.00						LOOSE GRAVEL
W08-7a	36X36	9.00						FRESH OIL/LOOSE GRAVEL
W08-9	48X48	16.00						LOW SHOULDER
W08-11	48X48	16.00						UNEVEN LANES
W08-12	48X48	16.00						NO CENTER LINE
W08-15	48X48	16.00						GROOVED PAVEMENT
W08-15P	30X24	5.00						MOTORCYCLE (PLAQUE)
W08-17	48X48	16.00						SHOULDER DROP-OFF (SYMBOL)
W08-17P	30X24	5.00						SHOULDER DROP-OFF (PLAQUE)
W10-1	42RND.	9.62						RAILROAD CROSSING
W012-1	24X24	4.00						DOUBLE DOWN ARROW (SYMBOL)
W012-2	48X48	16.00						LOW CLEARANCE (SYMBOL)
W012-2X	24X18	3.00						LOW CLEARANCE (PLAQUE)
W012-2a	84X24	14.00						OVERHEAD LOW CLEARANCE (FEET AND INCHES)
W012-4	120X60	50.00						LOW CLEARANCE XX FT XX IN XX MILES AHEAD
W012-5	120X60	50.00						WIDTH RESTRICTION XX FT XX IN XX MILES AHEAD
W013-1	30X30	6.25						ADVISORY SPEED (PLAQUE)
W016-2	30X24	5.00						XXX FEET (PLAQUE)
W016-3	30X24	5.00						X MILE (PLAQUE)
W020-1	48X48	16.00	2	32.00			2	ROAD/BRIDGE/RAMP WORK AHEAD
W020-2	48X48	16.00						DETOUR AHEAD
W020-3	48X48	16.00						ROAD CLOSED AHEAD
W020-4	48X48	16.00						ONE LANE ROAD AHEAD
W020-5	48X48	16.00	2	32.00			5	RIGHT/CENTER/LEFT LANE CLOSED AHEAD
W020-5a	48X48	16.00						2 RIGHT/CENTER/LEFT LANES CLOSED AHEAD
W020-6a	48X48	16.00	1	16.00	1	16.00	6	RIGHT/CENTER/LEFT LANE CLOSED
W020-7a	48X48	16.00						FLAGGER (SYMBOL, WITH FLAGS)
W021-2	36X36	9.00						FRESH OIL
W021-5	48X48	16.00						SHOULDER WORK AHEAD
W022-1	48X48	16.00						BLASTING ZONE AHEAD
W022-2	42X36	10.50						TURN OFF 2-WAY RADIO AND PHONE
W022-3	42X36	10.50						END BLASTING ZONE
G022-1	21X15	2.19						WET PAINT (ARROW PIVOTS)

SIGN	SIZE IN.	AREA SQ.FT.	QTY EACH	TOTAL SQ.FT.	QTY RELOC EACH	TOTAL RELOC SQ.FT.	SIGN NUM.	DESCRIPTION
GUIDE SIGNS								
E05-1	36X48	12.00						GORE EXIT
E05-2	48X36	12.00						EXIT OPEN
E05-2a	48X36	12.00						EXIT CLOSED
G020-1	60X24	10.00						ROAD WORK NEXT XX MILES
G020-2	48X24	8.00						END ROAD WORK
G020-4	36X18	4.50						PILOT CAR FOLLOW ME
G020-4a	42X30	8.75						PILOT CAR IN USE WAIT & FOLLOW
G020-4a	18X12	1.50						PILOT CAR IN USE WAIT & FOLLOW
G020-5aP	36X24	6.00						WORK ZONE (PLAQUE)
M04-8a	24X18	3.00						END DETOUR
M04-9L	48X36	12.00						DETOUR (LEFT ARROW)
M04-9R	48X36	12.00						DETOUR (RIGHT ARROW)
M04-9P	48X12	4.00						STREET NAME (PLAQUE)
M04-10L	48X18	6.00						DETOUR (ARROW LEFT)
M04-10R	48X18	6.00						DETOUR (ARROW RIGHT)
REGULATORY SIGNS								
R1-1	48X48	13.25						STOP
R1-2	48TRI.	6.93						YIELD
R1-2a	36X36	9.00						TO ONCOMING TRAFFIC (PLAQUE)
R1-3P	30X12	2.50						ALL WAY (PLAQUE)
R2-1	36X48	12.00						SPEED LIMIT XX
R3-1	48X48	16.00						NO RIGHT TURN (SYMBOL)
R3-2	48X48	16.00						NO LEFT TURN (SYMBOL)
R3-3	36X36	9.00						NO TURNS
R3-4	48X48	16.00						NO U-TURN (SYMBOL)
R3-7L	30X30	6.25						LEFT LANE MUST TURN LEFT
R3-7R	30X30	6.25						RIGHT LANE MUST TURN RIGHT
R4-1	36X48	12.00						DO NOT PASS
R4-2	36X48	12.00						PASS WITH CARE
R4-8a	36X48	12.00						KEEP LEFT (HORIZONTAL ARROW)
R4-7a	36X48	12.00						KEEP RIGHT (HORIZONTAL ARROW)
R5-1	30X30	6.25						DO NOT ENTER
R5-1a	36X24	6.00						WRONG WAY
R6-1L	54X18	6.75						ONE WAY ARROW (LEFT)
R6-1R	54X18	6.75						ONE WAY ARROW (RIGHT)
R6-2L	24X30	5.00						ONE WAY (LEFT)
R6-2R	24X30	5.00						ONE WAY (RIGHT)
R9-9	24X12	2.00						SIDEWALK CLOSED
R9-11L	24X18	3.00						SIDEWALK CLOSED AHEAD, (ARROW LEFT) CROSS HERE
R9-11R	24X18	3.00						SIDEWALK CLOSED AHEAD, (ARROW RIGHT) CROSS HERE
R10-6	24X36	6.00						STOP HERE ON RED (45° ARROW)
R11-2	48X30	10.00						ROAD CLOSED
R11-3a	60X30	12.50						ROAD CLOSED XX MILES AHEAD LOCAL TRAFFIC ONLY
R11-4	60X30	12.50						ROAD CLOSED TO THRU TRAFFIC
CONST-3A	60X48	20.00						FINE SIGN
CONST-3X	56X12	4.67						SPEEDING/PASSING (PLATE)
MISCELLANEOUS SIGNS								
CONST-5	48X36	12.00						POINT OF PRESENCE
CONST-5	96X48	32.00			*			POINT OF PRESENCE
CONST-7	48X24	8.00			*			RATE OUR WORK ZONE
CONST-7	72X36	18.00			*			RATE OUR WORK ZONE
CONST-8	48X36	12.00			*			WORK ZONE NO PHONE ZONE
SPECIAL	30X24	5.00			*			TAKE TURNS
SPECIAL	30X24	5.00			*			TAKE TURNS AT MERGE
SPECIAL	96X48	32.00			*			USE BOTH LANES/TAKE TURN

		TOTAL
616-10.05	CONSTRUCTION SIGNS	112
616-10.10	RELOCATED SIGNS	16

ITEM NUMBER	TOTAL QTY	DESCRIPTION
6122008		IMPACT ATTENUATOR 40 MPH (SAND BARRELS)
6122009		IMPACT ATTENUATOR 45 MPH (SAND BARRELS)
6122010		IMPACT ATTENUATOR 50 MPH (SAND BARRELS)
6122012		IMPACT ATTENUATOR 55 MPH (SAND BARRELS)
6122014		IMPACT ATTENUATOR 60 MPH (SAND BARRELS)
6122017		IMPACT ATTENUATOR 65 MPH (SAND BARRELS)
6122019	1	IMPACT ATTENUATOR 70 MPH (SAND BARRELS)
6122020	5	REPLACEMENT SAND BARREL
6122030		IMPACT ATTENUATOR (RELOCATION)
6123000A		TRUCK OR TRAILER MOUNTED ATTENUATOR (TMA)
6161008	6	ADVANCED WARNING RAIL SYSTEM
6161012		BUOYS (BOATS KEEP OUT)
6161013		BUOYS (NO WAKE)
6161014		SPECIAL SIGN ASSEMBLY (BOATS KEEP OUT)
6161025	200	CHANNELIZER (TRIM LINE)
6161030		TYPE III MOVEABLE BARRICADE
6161033	14	DIRECTION INDICATOR BARRICADE
6161040	1	FLASHING ARROW PANEL
6161047		TYPE III OBJECT MARKER
6161051		WARNING LIGHT, TYPE A
6161052		WARNING LIGHT, TYPE B
6161053		WARNING LIGHT, TYPE C
6161055		SEQUENTIAL FLASHING WARNING LIGHT
6161070		TUBULAR MARKER
6161095		RADAR SPEED ADVISORY SYSTEM
6161096		CHANGEABLE MESSAGE SIGN, COMMISSION FURNISHED/RETAINED
6161098A		CHANGEABLE MESSAGE SIGN W/O COMM. INTERFACE, CONTRACTOR FURNISHED/RETAINED
6161099		CHANGEABLE MESSAGE SIGN WITH COMM. INTERFACE, CONTRACTOR FURNISHED/RETAINED
6162000A		WORK ZONE TRAFFIC SIGNAL SYSTEM
6162002	8	TEMPORARY LONG-TERM RUMBLE STRIPS
6162004	3	TEMPORARY SHORT-TERM RUMBLE STRIPS
6173600D	*	TEMPORARY TRAFFIC BARRIER CONTRACTOR FURNISHED/RETAINED
6173602B	*	TEMPORARY TRAFFIC BARRIER CONTRACTOR FURNISHED/COMMISSION RETAINED
6173700B		TEMPORARY TRAFFIC BARRIER ANCHORED CONTRACTOR FURNISHED/RETAINED
6174000A		TEMP. TRAFFIC BARRIER HEIGHT TRANSITION
6175010A		RELOCATING TEMPORARY TRAFFIC BARRIER
6176000B		TEMPORARY TRAFFIC BARRIER COMMISSION FURNISHED/RETAINED
6177000B		TEMP. TRAFFIC BARRIER HEIGHT TRANSITION COMMISSION FURNISHED/RETAINED
6208064A		TEMPORARY RAISED PAVEMENT MARKER
9029400		TEMPORARY TRAFFIC SIGNALS
9029401		TEMPORARY TRAFFIC SIGNALS AND LIGHTING
6129902	1	MISC. CRASH CUSHION

JOB NOTES: * ALREADY IN WORK ZONE FOR J513397/3572

SUMMARY OF QUANTITIES
SHEET 3 OF 3

STATE OF MISSOURI
JASON S. DOHRMANN
PE-2004017159
PROFESSIONAL ENGINEER

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

DATE PREPARED: 9/24/2021

ROUTE	STATE
I-44	MO

DISTRICT	SHEET NO.
CD	2

COUNTY: PHELPS

JOB NO.: J513482

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)

HR GREEN, INC.
16020 SWINGLEY RIDGE ROAD.
SUITE 205
ST. LOUIS, MISSOURI 63017
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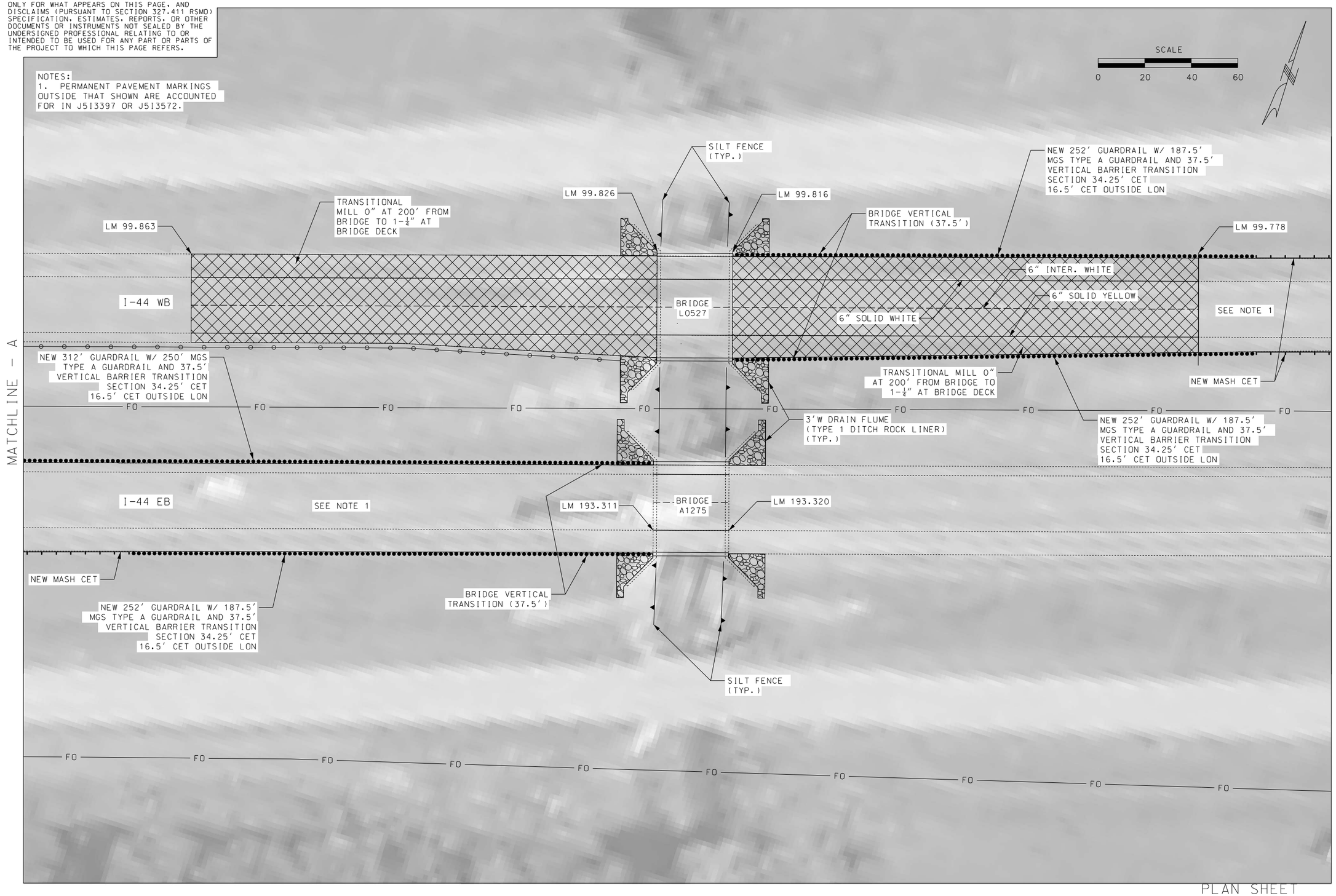
NOTES:
1. PERMANENT PAVEMENT MARKINGS OUTSIDE THAT SHOWN ARE ACCOUNTED FOR IN J513397 OR J513572.



PLAN SHEET
SHEET 1 OF 3

STATE OF MISSOURI
JASON S. DOHRMANN
PE-2004017159
PROFESSIONAL ENGINEER

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

DATE PREPARED 9/24/2021
ROUTE I-44 | STATE MO
DISTRICT CD | SHEET NO. 3
COUNTY PHELPS
JOB NO. J513482
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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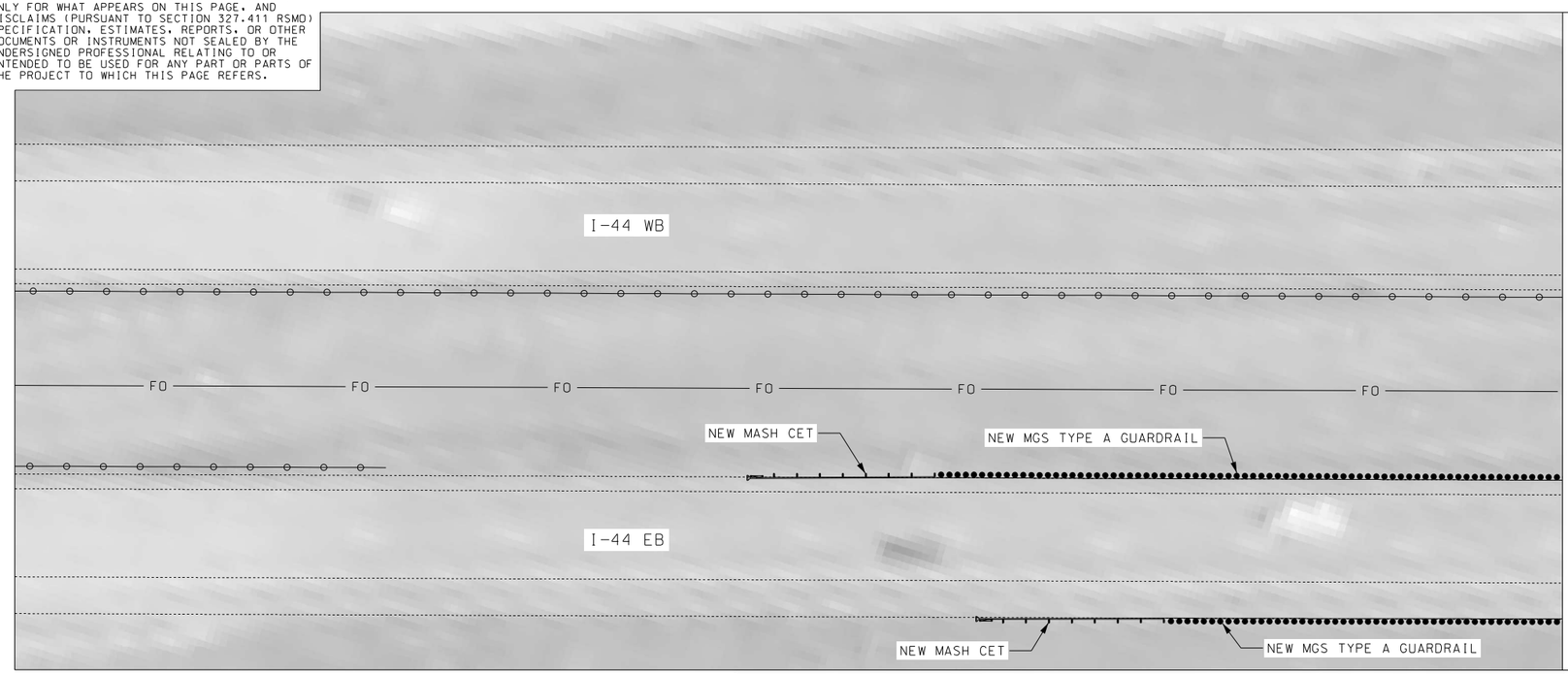

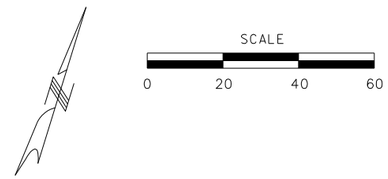

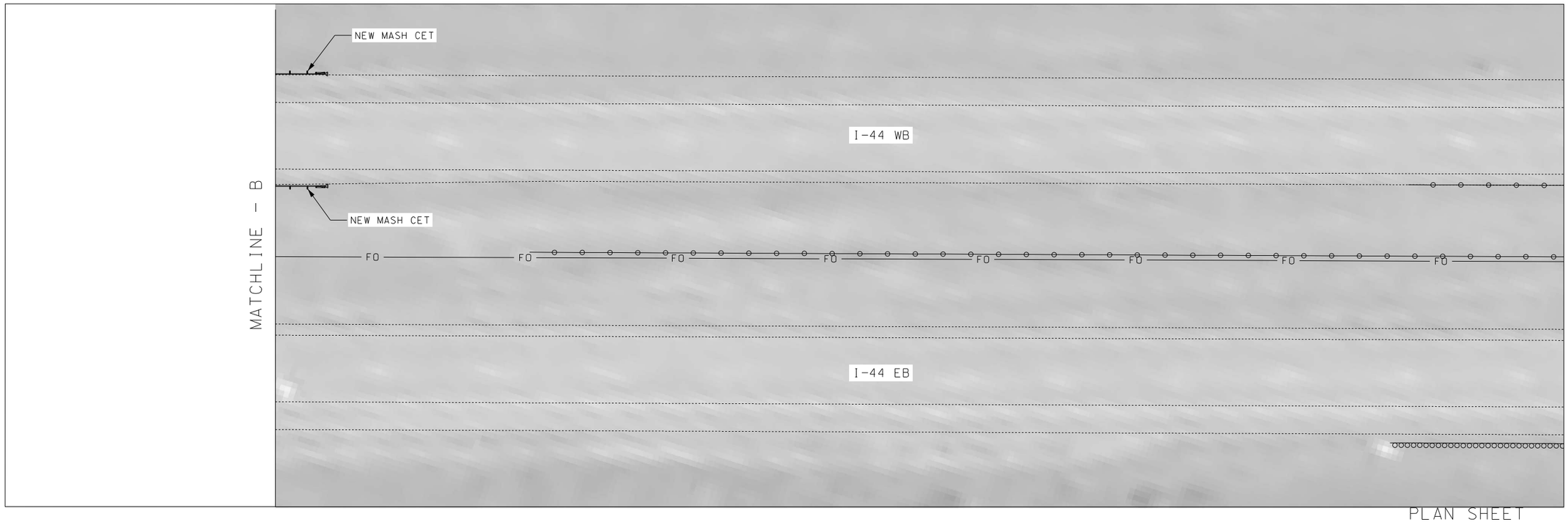

PLAN SHEET
SHEET 2 OF 3

JASON S. DOHRMANN
PE-2004017759
STATE OF MISSOURI
PROFESSIONAL ENGINEER

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

DATE PREPARED
9/22/2021

ROUTE	STATE
I-44	MO
DISTRICT	SHEET NO.
CD	4

COUNTY
PHELPS

JOB NO.
J513482

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

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

DESCRIPTION	DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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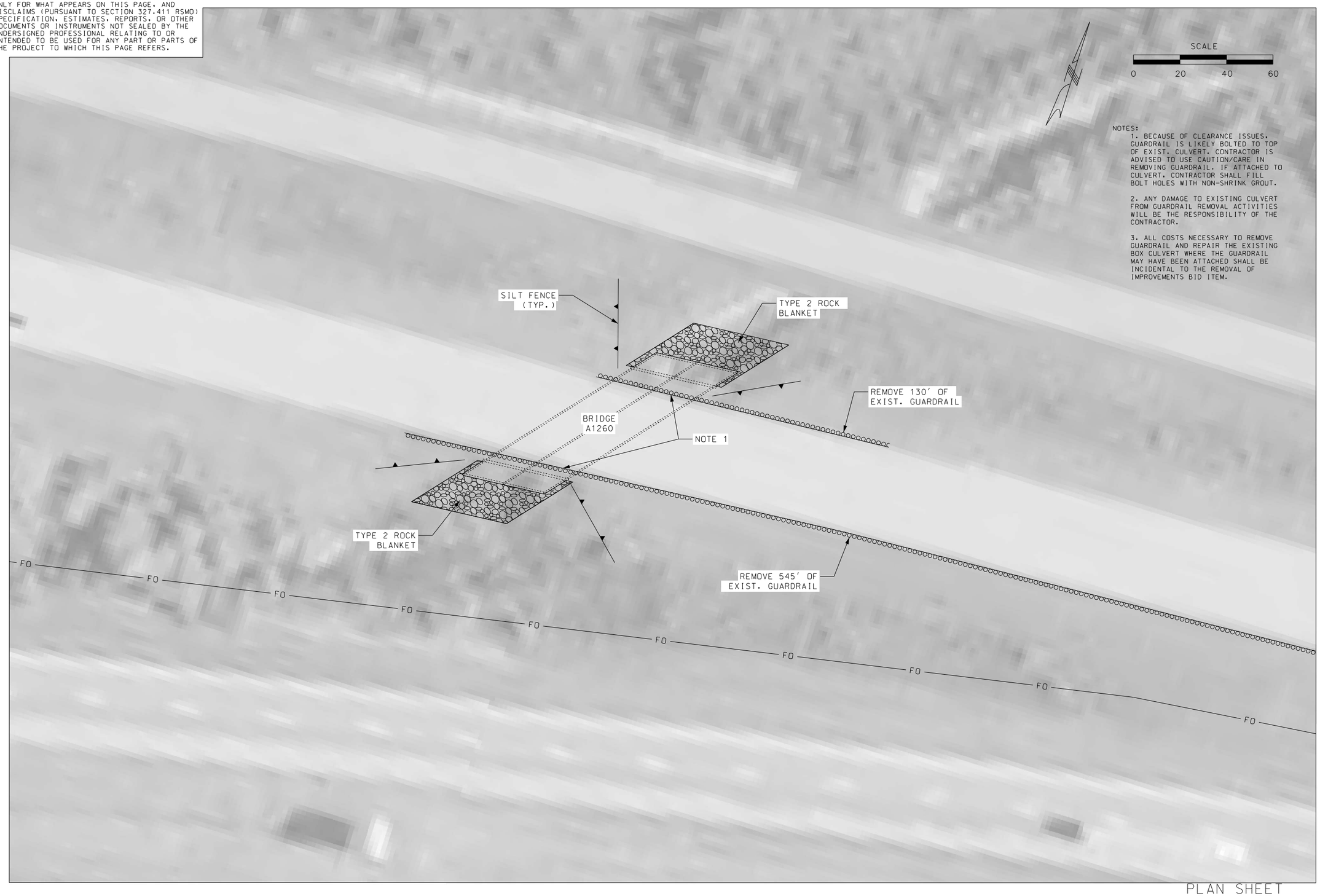

NOTES:

1. BECAUSE OF CLEARANCE ISSUES, GUARDRAIL IS LIKELY BOLTED TO TOP OF EXIST. CULVERT. CONTRACTOR IS ADVISED TO USE CAUTION/CARE IN REMOVING GUARDRAIL. IF ATTACHED TO CULVERT, CONTRACTOR SHALL FILL BOLT HOLES WITH NON-SHRINK GROUT.

2. ANY DAMAGE TO EXISTING CULVERT FROM GUARDRAIL REMOVAL ACTIVITIES WILL BE THE RESPONSIBILITY OF THE CONTRACTOR.

3. ALL COSTS NECESSARY TO REMOVE GUARDRAIL AND REPAIR THE EXISTING BOX CULVERT WHERE THE GUARDRAIL MAY HAVE BEEN ATTACHED SHALL BE INCIDENTAL TO THE REMOVAL OF IMPROVEMENTS BID ITEM.

PLAN SHEET
SHEET 3 OF 3

STATE OF MISSOURI
JASON S. DOHRMANN
PE-2004017159
PROFESSIONAL ENGINEER

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

DATE PREPARED: 9/22/2021

ROUTE	STATE
I-44	MO
DISTRICT	SHEET NO.
CD	5

COUNTY: PHELPS
JOB NO.: J5I3482
CONTRACT ID.:
PROJECT NO.:
BRIDGE NO.:

DESCRIPTION	DATE

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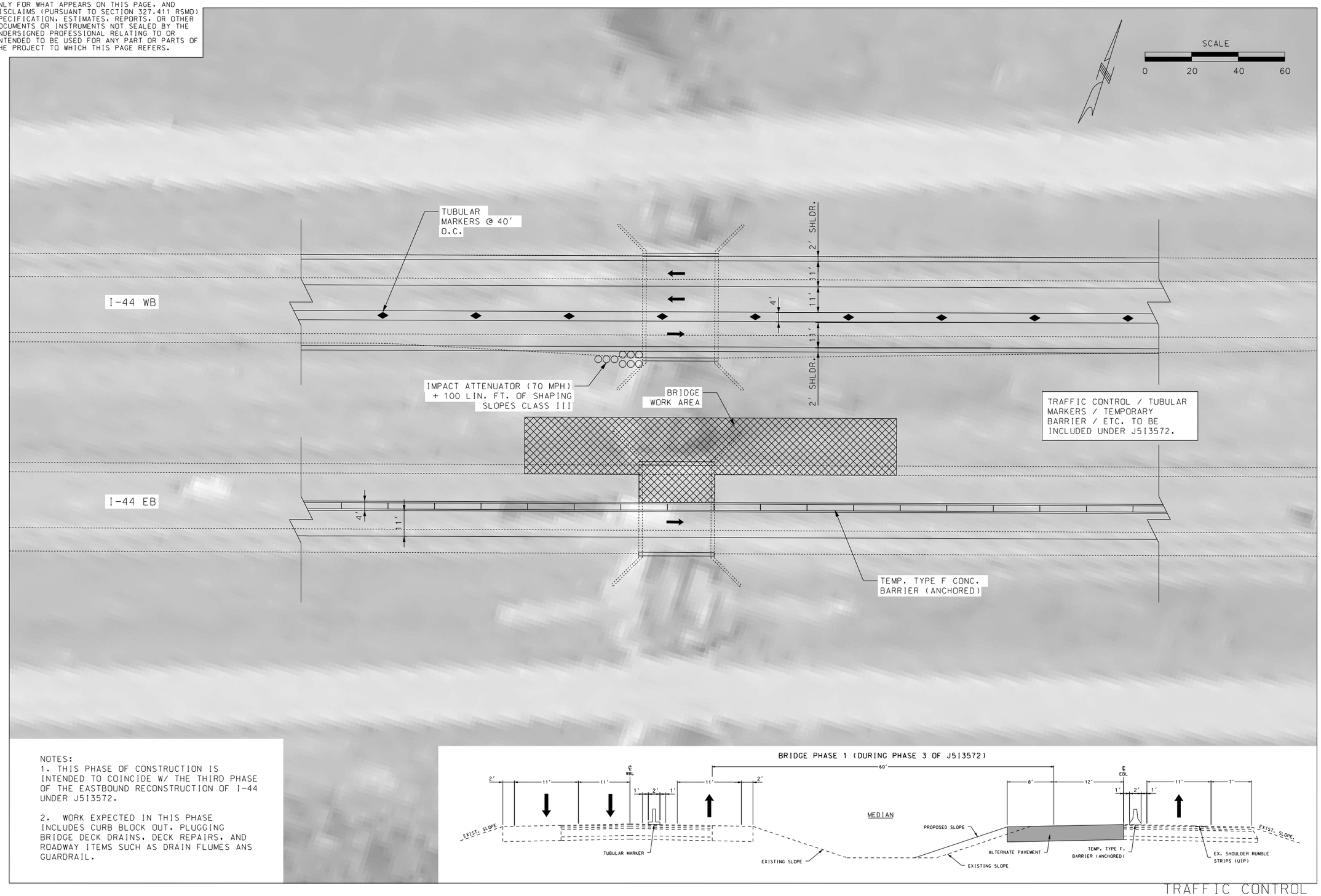

NOTES:
1. THIS PHASE OF CONSTRUCTION IS INTENDED TO COINCIDE W/ THE THIRD PHASE OF THE EASTBOUND RECONSTRUCTION OF I-44 UNDER J513572.

2. WORK EXPECTED IN THIS PHASE INCLUDES CURB BLOCK OUT, PLUGGING BRIDGE DECK DRAINS, DECK REPAIRS, AND ROADWAY ITEMS SUCH AS DRAIN FLUMES ANS GUARDRAIL.

BRIDGE PHASE 1 (DURING PHASE 3 OF J513572)

TRAFFIC CONTROL
SHEET 1 OF 5

JASON S. DOHRMANN
PE-2004017159
STATE OF MISSOURI
PROFESSIONAL ENGINEER

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

DATE PREPARED: 9/23/2021

ROUTE	STATE
I-44	MO

DISTRICT	SHEET NO.
CD	6

COUNTY: PHELPS
JOB NO.: J513482
CONTRACT ID.:
PROJECT NO.:
BRIDGE NO.:

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

DATE	DESCRIPTION

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
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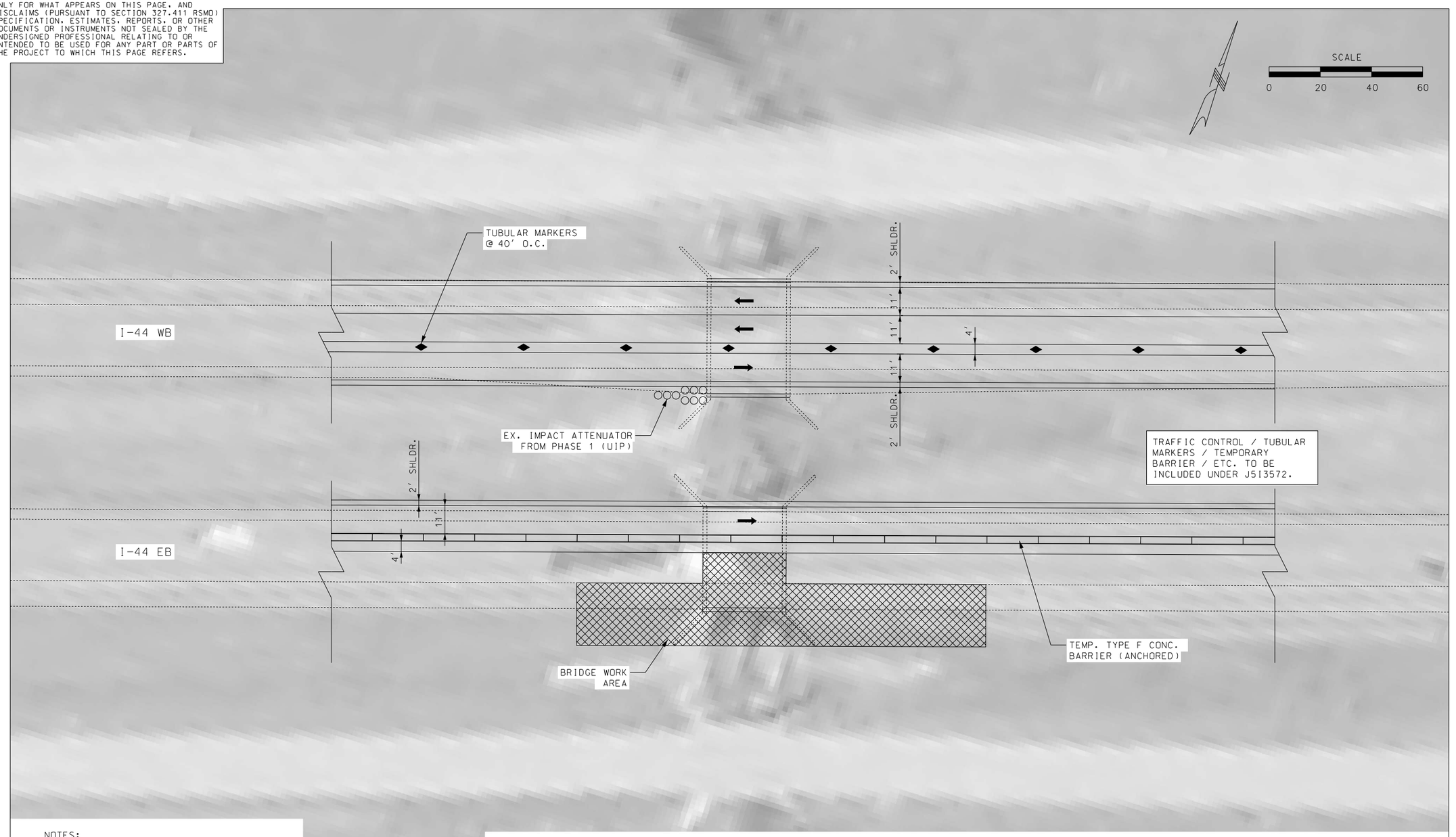
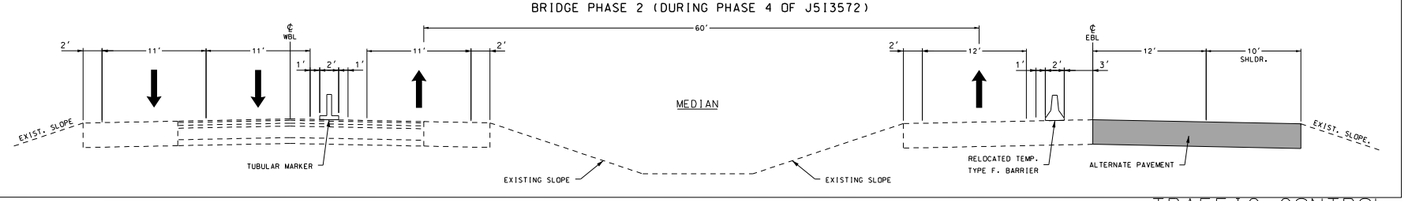


NOTES:
1. THIS PHASE OF CONSTRUCTION IS INTENDED TO COINCIDE W/ THE THIRD PHASE OF THE EASTBOUND RECONSTRUCTION OF I-44 UNDER J513572.

2. WORK EXPECTED IN THIS PHASE INCLUDES CURB BLOCK OUT, PLUGGING BRIDGE DECK DRAINS, DECK REPAIRS, AND ROADWAY ITEMS SUCH AS DRAIN FLUMES ANS GUARDRAIL.

BRIDGE PHASE 2 (DURING PHASE 4 OF J513572)



TRAFFIC CONTROL
SHEET 2 OF 5

STATE OF MISSOURI
JASON S. DOHRMANN
PE-2004017159
PROFESSIONAL ENGINEER

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

DATE PREPARED
9/23/2021

ROUTE	STATE
I-44	MO
DISTRICT	SHEET NO.
CD	7

COUNTY
PHELPS

JOB NO.
J513482

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

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DESCRIPTION	DATE

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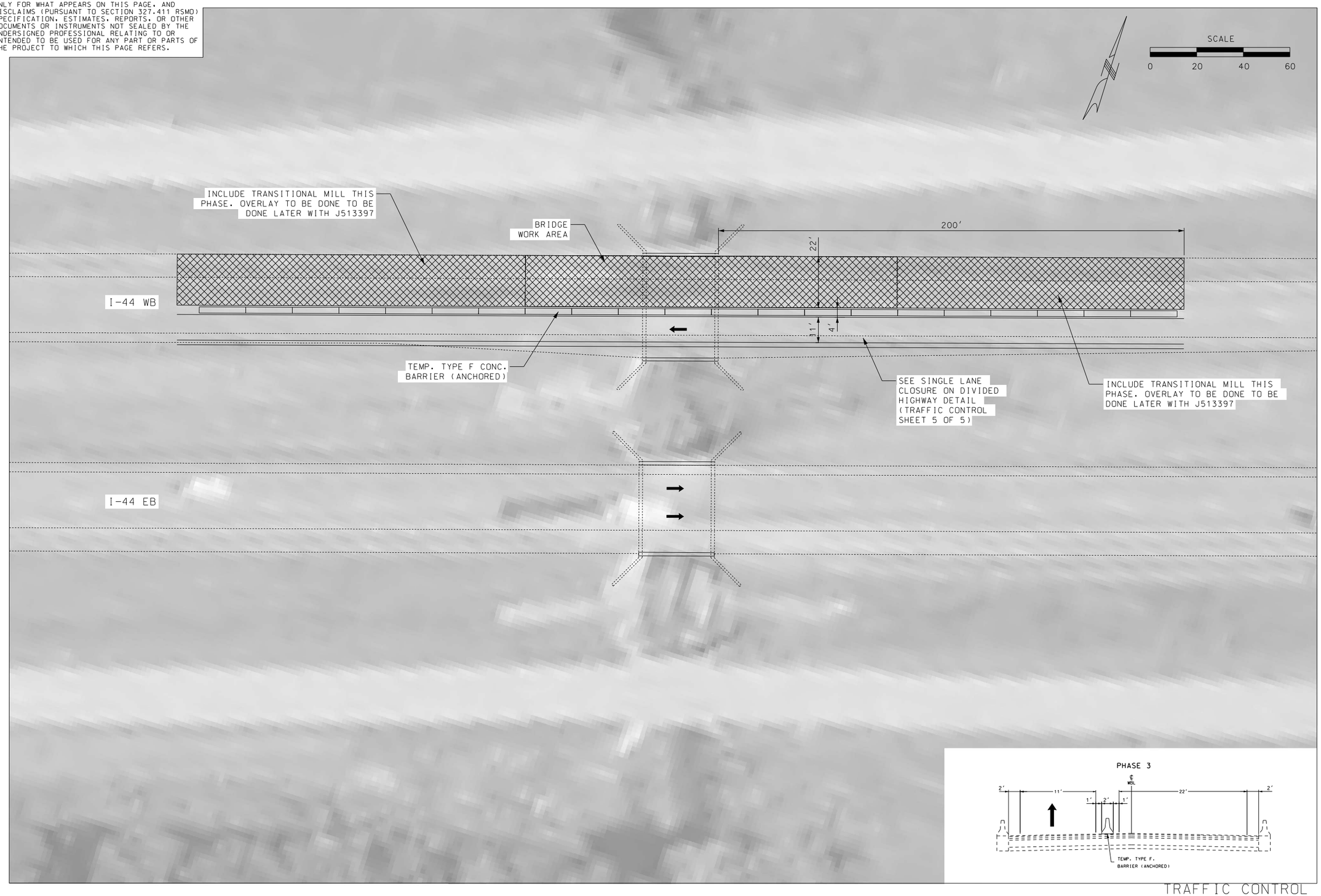

TRAFFIC CONTROL
SHEET 3 OF 5

STATE OF MISSOURI
JASON S. DOHRMANN
PE-2004017159
PROFESSIONAL ENGINEER

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

DATE PREPARED 9/22/2021

ROUTE	STATE
I-44	MO
DISTRICT	SHEET NO.
CD	8

COUNTY PHELPS
JOB NO. J513482
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)

HR GREEN, INC.
16020 SWINGLEY RIDGE ROAD.
SUITE 205
ST. LOUIS, MISSOURI 63017
PHONE: (636) 519.0990
CORPORATE LICENSE #2002006608
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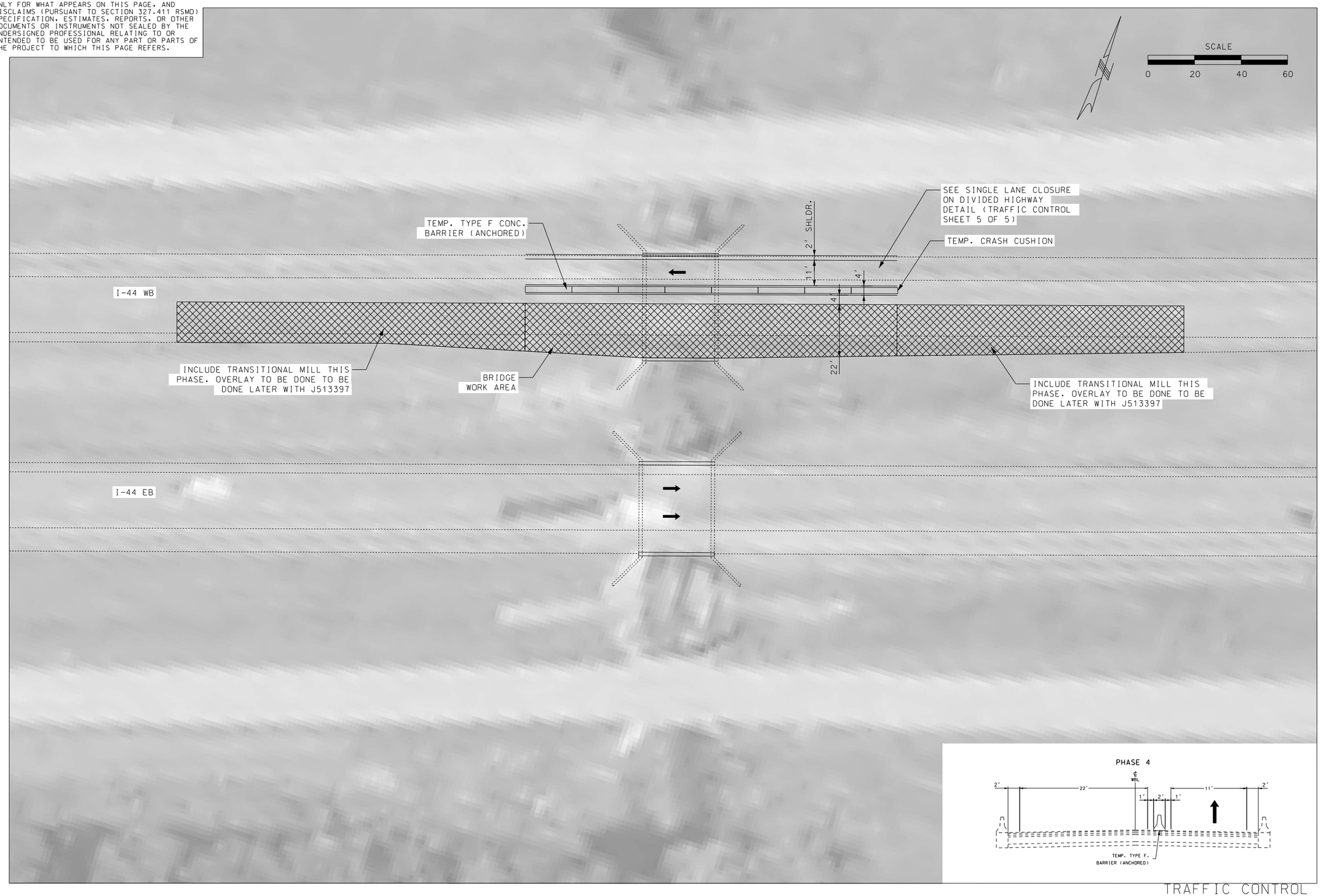

TRAFFIC CONTROL
SHEET 4 OF 5

STATE OF MISSOURI
JASON S. DOHRMANN
PE-2004017159
PROFESSIONAL ENGINEER

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

DATE PREPARED
9/22/2021

ROUTE	STATE
I-44	MO
DISTRICT	SHEET NO.
CD	9

COUNTY
PHELPS

JOB NO.
J513482

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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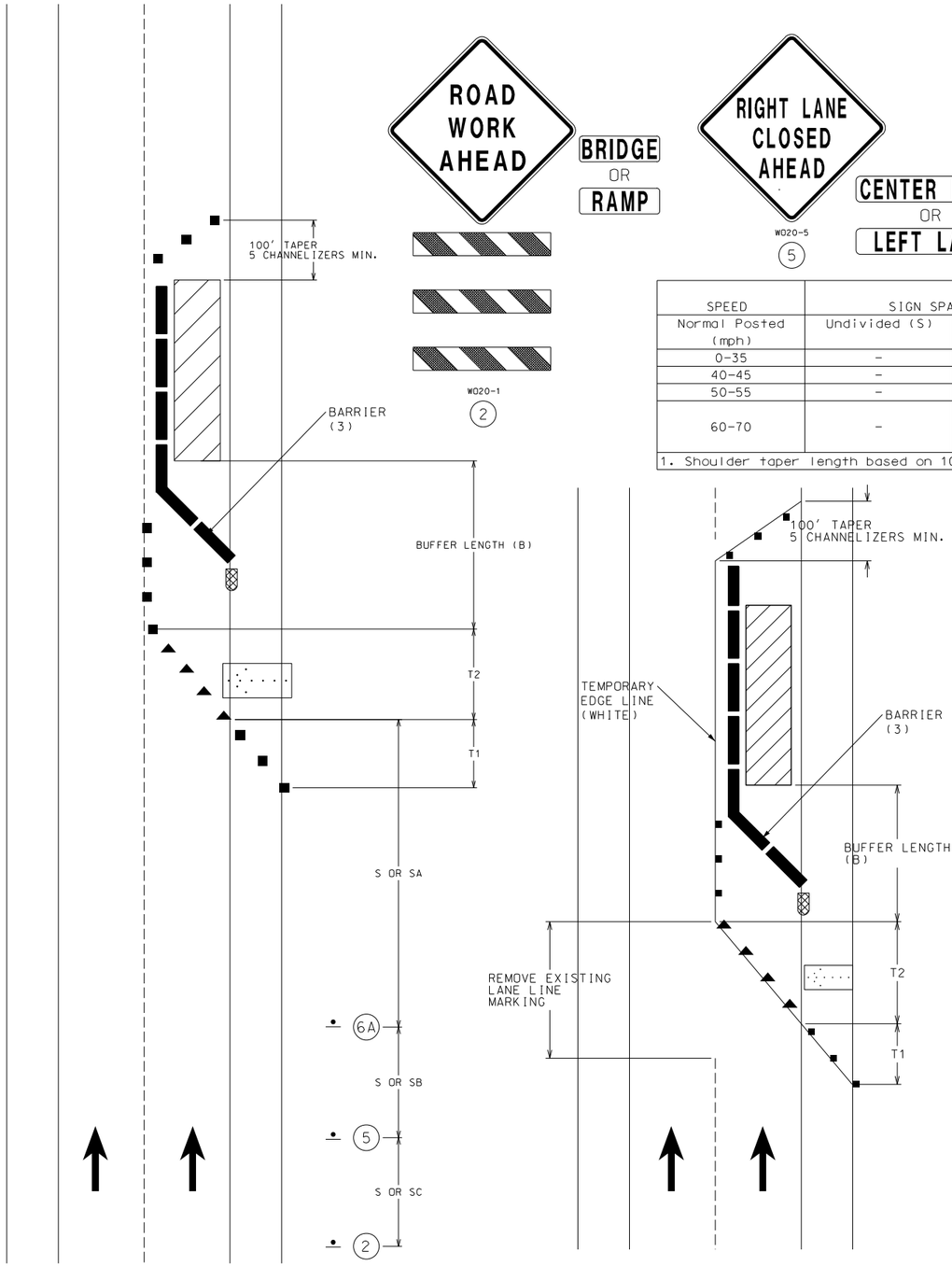
TA-34 – LANE CLOSURE ON A DIVIDED HIGHWAY WITH TEMPORARY TRAFFIC BARRIER – DE/CM



SPEED	SIGN SPACING (ft.)		TAPER LENGTH (ft.)		OPTIONAL	CHANNELIZER SPACING (ft.)	
Normal Posted (mph)	Undivided (S)	Divided (S)	Shoulder (1) (T1)	Lane (2) (T2)	BUFFER LENGTH (ft.) (B)	Tapers	Buffer/ Work Areas
0-35	-	200	70	245	280	35	40
40-45	-	500	150	540	400	40	80
50-55	-	1000	185	660	560	50	80
60-70	-	SA - 1000 SB - 1500 SC - 2640	235	840	840	60	120

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

TEMPORARY PAVEMENT MARKING GUIDELINES

TRAFFIC CONTROL LEGEND

- SIGN (SINGLE SIDED)
- WORK AREA
- ADVANCED WARNING RAIL SYSTEM
- ARROW BOARD
- CHANNELIZER
- DIRECTIONAL INDICATOR BARRICADE
- END TREATMENT

NOTES:

SEE EPG 616.12 WORK ZONE SPEED LIMITS FOR SPEED LIMIT GUIDELINES.

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

TEMPORARY PAVEMENT MARKING REQUIRED WITH LONG TERM CLOSURES.

TEMPORARY TRAFFIC BARRIERS, IF USED, SHALL COMPLY WITH THE PROVISIONS IN EPG 616.6.85 TEMPORARY TRAFFIC BARRIER.

(3) FLARE BARRIER TO EXTEND BEYOND CLEAR ZONE OR FLARE BARRIER TO EDGE LINE AND USE APPROVED END TREATMENT.
(3) CONCRETE BARRIER SHALL BE INSTALLED AT AN 8:1 FLARE RATE WITHIN THE TRAVEL LANES
(3) CONCRETE BARRIER MAY BE INSTALLED AT AN 8:1 FLARE RATE FROM THE SHOULDER POINT TO THE LIMITS OF THE CLEAR ZONE WHERE THE SIDE SLOPE IS 6:1 OR FLATTER.
(3) APPROVED CRASH CUSHIONS ARE TO BE USED WHEN THE POSTED SPEED LIMIT PRIOR TO ROAD WORK IS GREATER THAN OR EQUAL TO 40 MPH.
(3) BARRIER HEIGHT TRANSITION MAY BE USED WHEN THE POSTED SPEED LIMIT PRIOR TO ROAD WORK IS LESS THAN 40 MPH.

REVIEW EPG 616.8.34a (TA-34a) LANE CLOSURE WITH WIDTH AND LANE RESTRICTIONS – DE/CM FOR A LANE CLOSURE WITH WIDTH RESTRICTION.

FOR NIGHTTIME OPERATIONS, REVIEW EPG 616.6.83 WARNING LIGHTS.

IF RUMBLE STRIPS ARE USED, REVIEW EPG 616.6.87 RUMBLE STRIPS.

FOR FLAGS AND ADVANCE WARNING RAIL SYSTEM, REFER TO EPG 616.6.2.2 FLAGS AND ADVANCE WARNING RAIL SYSTEM.

REVIEW EPG 616.6.63 CHANNELIZING DEVICES FOR DIFFERENT TYPES AND GUIDELINES FOR THE DEVICES.

TRAFFIC CONTROL
SHEET 5 OF 5

STATE OF MISSOURI
JASON S. DOHRMANN
PE-2004017159
PROFESSIONAL ENGINEER

DATE PREPARED 9/23/2021
ROUTE I-44 | STATE MO
DISTRICT CD | SHEET NO. 10
COUNTY PHELPS
JOB NO. J5I3482
CONTRACT ID.
PROJECT NO.
BRIDGE NO.

DESCRIPTION | DATE

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

HR GREEN, INC.
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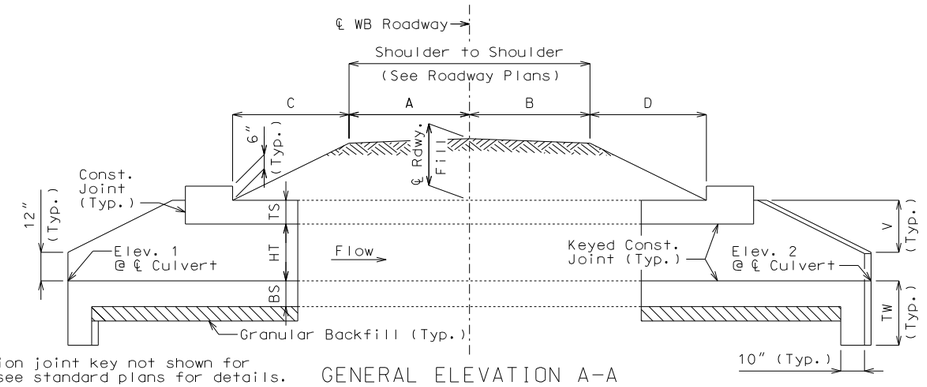
U.I.P. AND EXTEND EXISTING 2(12′x 4′) CONCRETE BOX CULVERT UPSTREAM AND DOWNSTREAM

SEC/SUR 9 TWP 37N RGE 8W

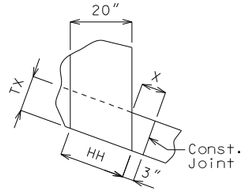


GENERAL ELEVATION A-A

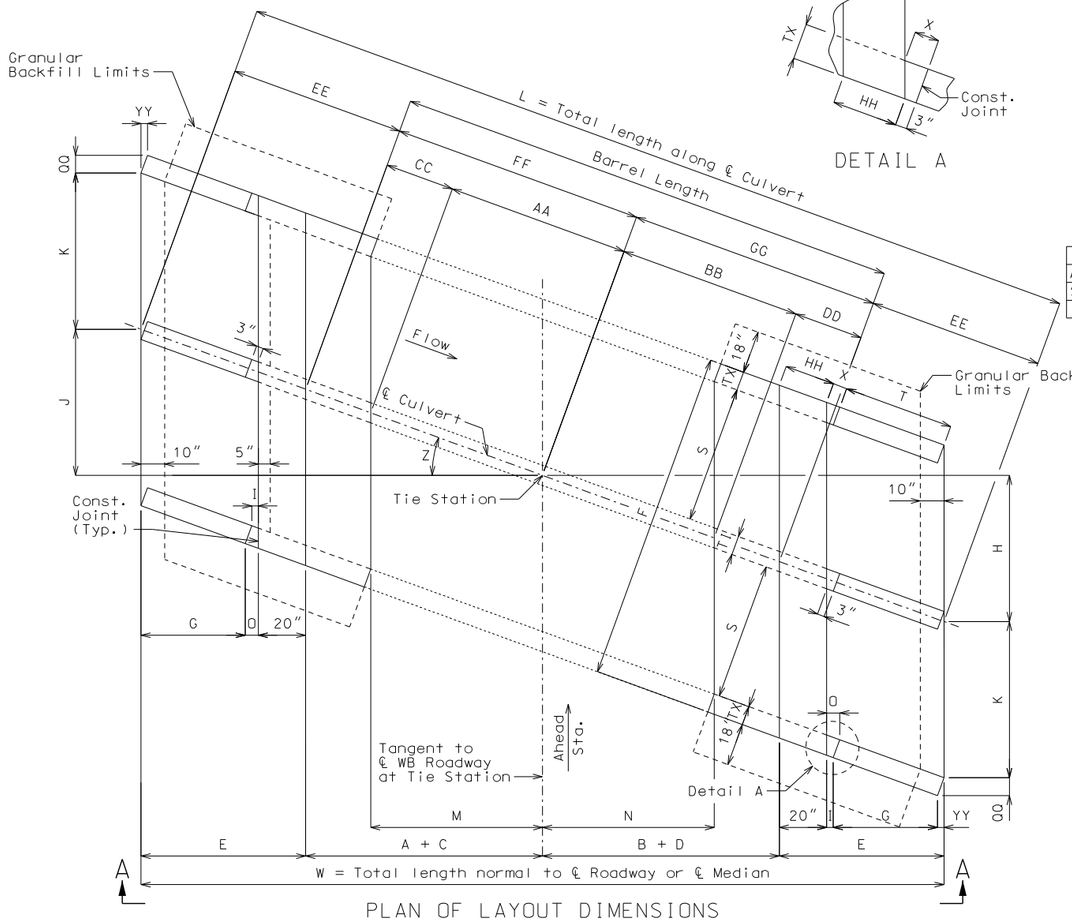
Construction joint key not shown for clarity, see standard plans for details.

If any part of the barrel is exposed, the roadway fill shall be warped to provide 12 inches minimum cover. (Roadway Item)

If unsuitable material is encountered, excavation of unsuitable material and furnishing and placing of granular backfill shall be in accordance with Sec 206.



DETAIL A



PLAN OF LAYOUT DIMENSIONS

Layout Dimensions

Var.	Equation	Dim.	Var.	Equation	Dim.	Var.	Equation	Dim.
S	- - -	12′-0″	H	(B + D + E)(tan Z)	52′-5 3/4″	Z	Skew Angle	45°
HT	- - -	4′-0″	I	3″(cos Z)	2 1/8″	AA	M(sec Z)	38′-10 3/4″
TS	- - -	12″	J	(A + C + E)(tan Z)	52′-3 1/2″	BB	N(sec Z)	31′-1 3/8″
BS	- - -	11″	K	(S + TI/2)(sec Z)	17′-5 1/4″	CC	(A + C - M)(sec Z)	20′-5 5/8″
TX	- - -	8″	L	2EE + BB + CC	148′-2″	DD	(B + D - N)(sec Z)	28′-6 1/8″
TI	- - -	8″	M	- - -	27′-6″	EE	E(sec Z)	14′-7″
A	- - -	22′-0″	N	- - -	22′-0″	FF	(A + C)(sec Z)	59′-4 3/8″
B	- - -	16′-0″	O	I + YY	7 3/4″	GG	(B + D)(sec Z)	59′-7 1/2″
C	- - -	19′-11 3/4″	T	G(sec Z)	11′-3 3/4″	HH	20″(sec Z)	2′-4 1/4″
D	- - -	26′-1 7/8″	V	HT + TS - 12″	4′-0″	QQ	TX(cos Z)	5 5/8″
E	G + O + 20″	10′-3 3/4″	W	A + B + C + D + 2E	104′-9 1/4″	YY	TX(sin Z)	5 5/8″
F	2S + 2TX + TI	26′-0″	X	3″ + TX(tan Z)	11″	TW	Max{3′-4″ or (BS + 12″)}	3′-4″
G	2V	8′-0″						

Hydrologic Data

Drainage Area = 1.3 mi²
Design Flood Frequency = 100 years
Design Flood Discharge = 1550 cfs
Design Flood (D.F.) Elevation = 866.3
Base Flood (100-year)
Base Flood Elevation = 866.3
Base Flood Discharge = 100 cfs
Estimated Backwater = 1.5 ft
Outlet Velocity = 10.0 ft/s
Roadway Overtopping
Overtopping Flood Discharge = >2110 cfs
Overtopping Flood Frequency = >7500 years
500-Year Flood Elevation = 866.4

Elevations

Upstream (Elev. 1) = 859.04
Downstream (Elev. 2) = 858.20
Pr. Gr. at Tie Sta. = 866.1±

Fill Heights

℄ WB Rdwy at ℄ Culvert = 2.4± ft
Design (All units) = 2 ft

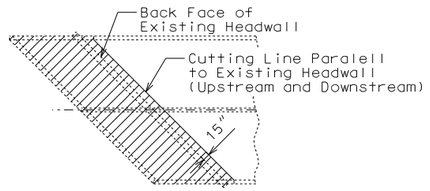
Dimensions are based on end units.
Fill heights are measured from the top of top slab to the top of earth fill or roadway.

Estimated Quantities

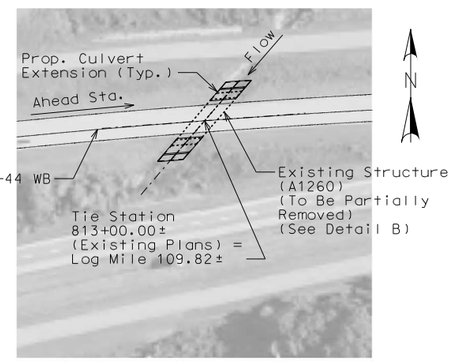
			Final
Class 4 Excavation	cu. yard	54	
Temporary Shoring	lump sum	1	
Dewatering	lump sum	1	
Partial Removal of Culvert-Bridge Concrete	lump sum	1	
Class B-1 Concrete (Culverts-Bridge)	cu. yard	149.7	
Reinforcing Steel (Culverts-Bridge)	pound	20,810	

Top Slab Reinforcement						Bottom Slab Reinforcement						Wall Reinforcement				
A1 Bars		J3 Bars		H1 Bars		H2 Bars		A2 Bars		J4 Bars		H3 Bars		B1 Bars		B2 Bars	
Sz.	Spa.	Sz.	Spa.	C1	K2	C5	C6	Sz.	Spa.	C4	K3	C7		Sz.	Spa.	Sz.	Spa.	G1
6	10	4	6	59.1	33.0	6	12	118.0	6	12	42.0	4	6	4	6	48.0	54.0	6	6	67.0	5	12	5	12	12

Substitute table for tables shown on Standard Plan 703.47



DETAIL B



LOCATION SKETCH

General Notes:

Design Specifications:
2017 AASHTO LRFD Bridge Design Specifications (8th Ed.)

Design Loading:
Vehicular = H20-S16-44 (Exist.) / HL-93 minus lane load (Prop.), Earth = 120 lb/cf
Equivalent Fluid Pressure = 30 lb/cf (min.), 60 lb/cf (max.)

Design Unit Stresses:
Class B-1 Concrete (Box Culvert) f′c = 4,000 psi
Reinforcing Steel (Grade 60) fy = 60,000 psi

Standard Plans:
703.37, 703.38, 703.42, 703.46, 703.47

Miscellaneous:
MoDOT Construction personnel will indicate the type of box culvert constructed:
☐ Precast Concrete Box used
☐ Cast-in-Place Concrete Box used

When alternate precast concrete box sections are used, the minimum distance from inside face of headwalls to precast sections measured along the shortest wall shall be 3 feet. Reinforcement and dimensions for wings and headwalls shall be in accordance with Missouri Standard Plans.

Channel bottom shall be graded within the right of way for transition of channel bed to culvert openings. Channel banks shall be tapered to match culvert openings. (Roadway Item)

Traffic Handling:
Traffic to be maintained on structure during construction. See roadway plans for traffic control.

REPAIRS TO CULVERT-BRIDGE: ROUTE I-44 WB OVER EAST FORK OF LITTLE BEAVER CREEK

ROUTE I-44 WB FROM ROUTE E TO ROUTE T
ABOUT 3.8 MILES EAST OF ROUTE T
TIE STA. 813+00.00± (Existing Plans) = Log Mile 109.82±

Designed Aug. 2021
Detailed Aug. 2021
Checked Aug. 2021

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

STATE OF MISSOURI
CHRISTOPHER T. HERSINGER
NUMBER PE-2012018080
PROFESSIONAL ENGINEER
THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED 9/23/2021
ROUTE I-44 | STATE MO
DISTRICT BR | SHEET NO. 1
COUNTY PHELPS
JOB NO. J5I3482
CONTRACT ID.
PROJECT NO.
BRIDGE NO. A12601

DESCRIPTION | DATE

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

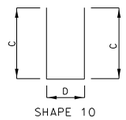
HR GREEN, INC.
16020 SWINGLEY RIDGE ROAD
SUITE 205
ST. LOUIS, MISSOURI 63017
PHONE: (636) 519.0990
CORPORATE LICENSE #2002006608

BILL OF REINFORCING STEEL

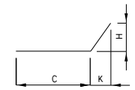
NO. REQ'D.	MARK NO. SIZE	MARK NO. MARK	LOCATION	SHAPE NO.	STIRRUP (S)	EPOXY (E)	VARIES (V)	NO. EACH	DIMENSIONS B FT.	C FT.	D or F FT.	E FT.	H FT.	K FT.	NOMINAL LENGTH FT.	NOMINAL LENGTH IN.	ACTUAL LENGTH FT.	ACTUAL LENGTH IN.	WEIGHT LBS.
			UPSTREAM END																
5	6	A1	TOP SLAB	20					22 0.000						22	0	22	0	165
18	4	A2	BOTTOM SLAB	20					25 9.000						25	9	25	9	310
48	6	A3	TOP SLAB	20			V	2	2 2.000						2	2	2	2	
			INCREMENT =						21 4.000						21	4	21	4	847
			10.000 INCH																
94	4	A4	BOTTOM SLAB	20			V	2	2 5.000						2	5	2	5	
			INCREMENT =						25 5.000						25	5	25	5	874
			6.000 INCH																
46	5	B1	INTERIOR WALL	10						12.000	5 6.000				7	6	7	3	348
46	5	B2	EXTERIOR WALLS	10						12.000	5 6.000				7	6	7	3	348
2	8	D1	HEADWALL	20					36 5.000						36	5	36	5	194
2	9	D2	HEADWALL	20					11 0.000						11	0	11	0	75
12	5	E1	TOE	20					4 0.000						4	0	4	0	50
92	4	F1	BARREL	20					22 1.000						22	1	22	1	1357
30	4	F2	BOTTOM SLAB	20					14 9.000						14	9	14	9	296
12	4	F3	WINGS	20			V	4	6 5.000						6	5	6	5	
			INCREMENT =						13 0.000						13	0	13	0	78
			39.500 INCH																
48	5	G1	WINGS	20			V	4	22.000							22		22	
			INCREMENT =						5 6.000						5	6	5	6	184
			4.000 INCH																
20	6	H1	TOP SLAB	20					19 8.000						19	8	19	8	591
21	6	H2	TOP SLAB	20					7 0.000						7	0	7	0	221
67	6	H3	BOTTOM SLAB	20					11 2.000						11	2	11	2	1124
4	8	H10	HEADWALL	20					36 5.000						36	5	36	5	389
12	7	J1	WINGS	20		FB			15 8.000						15	8	15	8	384
88	4	J3	TOP CORNER	19					2 9.000	4 11.125					7	8	7	7	446
95	4	J4	BOTTOM CORNER	19					4 6.000	4 0.000					8	6	8	5	534
36	4	J5	WINGS	19			V	2	2 4.000	4 0.000					6	4	6	3	
			INCREMENT =						5 4.000	4 0.000					9	4	9	3	186
			2.118 INCH																
36	5	R1	HEADWALL	27	S				17.000	10.875		2 2.375	4.125	4.125	5	0	4	10	181
36	5	R2	HEADWALL	10	S					10.500	15.000				3	0	2	10	106
			DOWNSTREAM END																
6	6	A1	TOP SLAB	20					25 9.000						25	9	25	9	232
34	4	A2	BOTTOM SLAB	20					25 9.000						25	9	25	9	585
56	6	A3	TOP SLAB	20			V	2	2 8.000						2	8	2	8	
			INCREMENT =						25 2.000						25	2	25	2	1170
			10.000 INCH																
94	4	A4	BOTTOM SLAB	20			V	2	2 5.000						2	5	2	5	
			INCREMENT =						25 5.000						25	5	25	5	874
			6.000 INCH																
62	5	B1	INTERIOR WALL	10						12.000	5 6.000				7	6	7	3	469
62	5	B2	EXTERIOR WALLS	10						12.000	5 6.000				7	6	7	3	469
2	8	D1	HEADWALL	20					36 5.000						36	5	36	5	194
2	9	D2	HEADWALL	20					11 0.000						11	0	11	0	75
12	5	E1	TOE	20					4 0.000						4	0	4	0	50
92	4	F1	BARREL	20					30 4.000						30	4	30	4	1864
30	4	F2	BOTTOM SLAB	20					14 2.000						14	9	14	9	284
12	4	F3	WINGS	20			V	4	6 5.000						6	5	6	5	
			INCREMENT =						13 0.000						13	0	13	0	78
			39.500 INCH																
48	5	G1	WINGS	20			V	4	22.000							22		22	
			INCREMENT =						5 6.000						5	6	5	6	184
			4.000 INCH																
28	6	H1	TOP SLAB	20					19 8.000						19	8	19	8	827
29	6	H2	TOP SLAB	20					7 0.000						7	0	7	0	305
84	6	H3	BOTTOM SLAB	20					11 2.000						11	2	11	2	1409
4	8	H10	HEADWALL	20					36 5.000						36	5	36	5	389
12	7	J1	WINGS	20		FB			15 8.000						15	8	15	8	384
124	4	J3	TOP CORNER	19					2 9.000	4 11.125					7	8	7	7	628
127	4	J4	BOTTOM CORNER	19					4 6.000	4 0.000					8	6	8	5	714
36	4	J5	WINGS	19			V	2	2 4.000	4 0.000					6	4	6	3	
			INCREMENT =						5 4.000	4 0.000					9	4	9	3	186
			2.118 INCH																
36	5	R3	HEADWALL	10	S					17.000	15.000				4	1	3	11	147

BILL OF REINFORCING STEEL

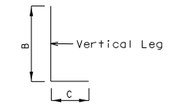
NO. REQ'D.	MARK NO. SIZE	MARK NO. MARK	LOCATION	SHAPE NO.	STIRRUP (S)	EPOXY (E)	VARIES (V)	NO. EACH	DIMENSIONS B FT.	C FT.	D or F FT.	E FT.	H FT.	K FT.	NOMINAL LENGTH FT.	NOMINAL LENGTH IN.	ACTUAL LENGTH FT.	ACTUAL LENGTH IN.	WEIGHT LBS.
			TOTALS																
	4																		9294
	5																		2536
	6																		6891
	7																		768
	8																		1166
	9																		150
			TOTAL																20805



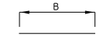
SHAPE 10



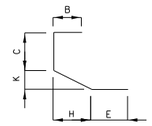
SHAPE 15



SHAPE 19



SHAPE 20

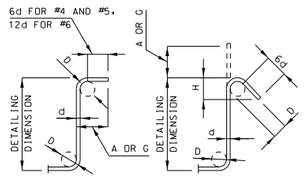


SHAPE 27

SPLICE LENGTH	
BAR SIZE	NON-EPOXY
#4	21 IN.
#5	26 IN.
#6	31 IN.
#7	39 IN.
#8	51 IN.
#9	65 IN.
#10	82 IN.
#11	101 IN.

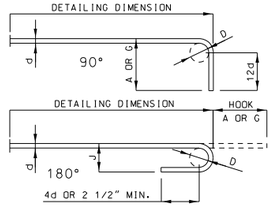
MAX BAR LENGTH	
BAR SIZE	NON-EPOXY
#4	60 FT.
#5	60 FT.
#6	60 FT.
#7	60 FT.
#8	60 FT.
#9	60 FT.
#10	60 FT.
#11	60 FT.

NOTE:
THE BAR LIST IS BASED ON THE MISSOURI STANDARD PLANS.
THIS BAR LIST IS FOR QUANTITY ESTIMATION PURPOSE ONLY AND SHALL BE VERIFIED OR MODIFIED BY THE CONTRACTOR.



STIRRUP HOOK DIMENSIONS			
BAR SIZE	D (IN.)	90° HOOK	135° HOOK
		HOOK A OR G	HOOK A OR G	APPROX. H
#4	2"	4 1/2"	4 1/2"	3"
#5	2 1/2"	6"	5 1/2"	3 3/4"
#6	4 1/2"	12"	8"	4 1/2"

NOTE: UNLESS OTHERWISE NOTED, DIAMETER "D" IS THE SAME FOR ALL BENDS AND HOOKS ON A BAR.



END HOOK DIMENSIONS				
BAR SIZE	D (IN.)	GRADE 60		
		180° HOOKS		90° HOOKS
		A OR G	J	A OR G
#4	3"	6"	4"	8"
#5	3 3/4"	7"	5"	10"
#6	4 1/2"	8"	6"	12"
#7	5 1/4"	10"	7"	14"
#8	6"	11"	8"	16"
#9	9 1/2"	15"	11 3/4"	19"
#10	10 3/4"	17"	13 1/4"	22"
#11	12"	19"	14 3/4"	24"

NOTE:
ALL STANDARD HOOKS AND BENDS OTHER THAN 180 DEGREE ARE TO BE BENT WITH SAME PROCEDURE AS FOR 90 DEGREE STANDARD HOOKS.
HOOKS AND BENDS SHALL BE IN ACCORDANCE WITH THE PROCEDURES AS SHOWN ON THIS SHEET.
FB = BARS MAY BE BENT IN FIELD TO FIT.
E = EPOXY COATED REINFORCEMENT.
S = STIRRUP.
V = BAR DIMENSIONS VARY IN EQUAL INCREMENTS BETWEEN DIMENSIONS SHOWN ON THIS LINE AND THE FOLLOWING LINE. A BLANK IN THE SECOND LINE REPRESENTS THE SAME BAR DIMENSION AS THAT IN THE FIRST LINE. IT IS THE CONTRACTOR'S RESPONSIBILITY TO ADD A SPLICE LENGTH TO A BAR LENGTH WHICH EXCEEDS ITS MAXIMUM ALLOWABLE LENGTH.
NO. EA. = NUMBER OF BARS OF EACH LENGTH.
NOMINAL LENGTHS ARE BASED ON OUT TO OUT DIMENSIONS SHOWN IN BENDING DIAGRAMS AND ARE LISTED FOR FABRICATORS USE. (NEAREST INCH)
ACTUAL LENGTHS ARE MEASURED ALONG CENTERLINE BAR TO THE NEAREST INCH.
PAYWEIGHTS ARE BASED ON ACTUAL LENGTHS.
REINFORCING STEEL (GRADE 60) FY = 60.000 PSI.

STATE OF MISSOURI
PROFESSIONAL ENGINEER
CHRISTOPHER T. HERSINGER
NUMBER PE-2012018080
THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED
9/23/2021

ROUTE	STATE
I-44	MO
DISTRICT	SHEET NO.
BR	2

COUNTY
PHELPS

JOB NO.
J5I3482

CONTRACT ID.

PROJECT NO.

BRIDGE NO.
A12601

DESCRIPTION	DATE

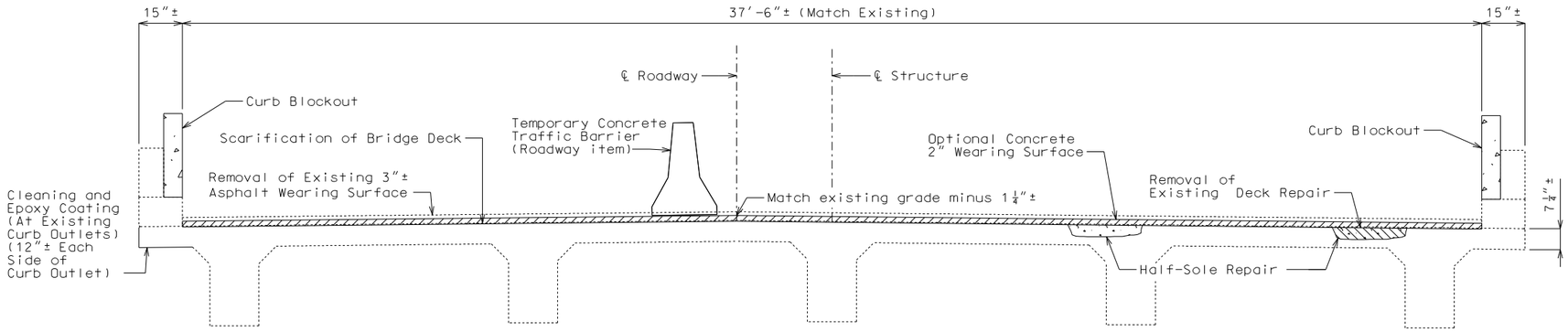
MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)
HR GREEN, INC.
16020 SWINGLEY RIDGE ROAD
SUITE 205
ST. LOUIS, MISSOURI 63017
PHONE: (636) 519.0990
CORPORATE LICENSE #2002006608

Detailed Aug. 2021
Checked Aug. 2021

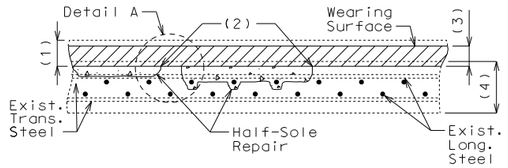
Note: This drawing is not to scale. Follow dimensions.

SEC/SUR 26 TWP 38N RGE 7W

U.I.P. AND REHABILITATE EXISTING (30′) CONCRETE DECK GIRDER SPAN



TYPICAL SECTION THRU EXISTING SLAB



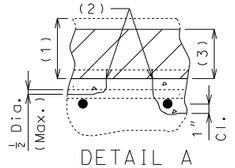
HALF-SOLE REPAIR

(1) Removal of existing 3"± asphalt wearing surface plus 1/4" of existing deck

(2) 1" vertical side shall be established outside the deteriorated area.

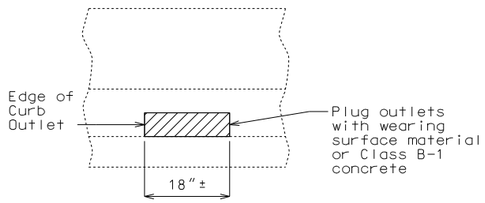
(3) 2" minimum concrete wearing surface

(4) Original depth of deck



DETAIL A

Clearance around top bar and around bottom bar at the intersection of top bar shall be required when more than half the diameter of the top bar is exposed.



PART ELEVATION SHOWING PLUGGING OF CURB OUTLETS

Notes:

New concrete wearing surface not shown for clarity.

Cost of labor and materials required to plug existing curb outlets will be considered completely covered by the contract unit price for Plugging Curb Outlet, per each.

Estimated material required to fill all curb outlets is 0.3 cubic yards.

Estimated Quantities

Item		Total
Scarification of Bridge Deck	sq. yard	135
Removal of Asphalt Wearing Surface	sq. foot	1219
Removal of Existing Deck Repair	sq. foot	25
Optional Concrete Wearing Surface	sq. yard	135
Diamond Grinding	sq. yard	135
Curb Blockout	lin. foot	65
Half-Sole Repair	sq. foot	150
Cleaning and Epoxy Coating	sq. foot	63
Plugging Existing Curb Outlet	each	8

Optional Concrete Wearing Surface

Type of Concrete Wearing Surface	Type Used (✓)
Low Slump Concrete Wearing Surface	
Latex Modified Concrete Wearing Surface	
Silica Fume Concrete Wearing Surface	

MoDOT construction personnel will complete column labeled "Type Used (✓)".

The contractor shall select one of the alternate concrete wearing surfaces listed in the table. The alternate concrete wearing surface method of measurement and basis of payment shall be in accordance with Sec 505.

General Notes:

Design Specifications:

2002 AASTHO LFD (17th Ed.) Standard Specifications
Bridge Deck Rating = 6

Design Loading:

H20-S16-44 and Modified 24,000 lb Tandem Axle (1961)

Design Unit Stresses:

Class B-1 Concrete (Curb Blockout) f′c = 4,000 psi

Class B-2 Concrete (Half-Sole Repair) f′c = 4,000 psi

Miscellaneous:

Roadway surfacing adjacent to bridge ends shall match new bridge wearing surface (roadway item).

All concrete repairs shall be in accordance with Sec 704, unless otherwise noted.

Outline of existing work is indicated by light dashed lines. Heavy lines indicate new work.

Contractor shall verify all dimensions in field before ordering new material.

In order to maintain grade and a minimum thickness of wearing surface as shown on plans it may be necessary to use additional quantities of wearing surface at various locations throughout the structure. The cost of furnishing and installing the wearing surface will be considered completely covered in the contract unit price, including all additional labor, materials or equipment for variations in thickness of wearing surface.

Traffic Handling:

Traffic to be maintained on structure during construction. See roadway plans for traffic control.

REPAIRS TO BRIDGE: ROUTE I-44 EB OVER BRANCH OF BOURBEUSE RIVER

ROUTE I-44 FROM ROUTE 63 TO ROUTE 8
ABOUT 2.3 MILES WEST OF ROUTE 8
BEG. STA. 1396+75.75± (Match Existing)

STD. 617.20

Designed Aug. 2021
Detailed Aug. 2021
Checked Aug. 2021

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

STATE OF MISSOURI CHRISTOPHER T. HERSINGER NUMBER PE-2012018080 PROFESSIONAL ENGINEER

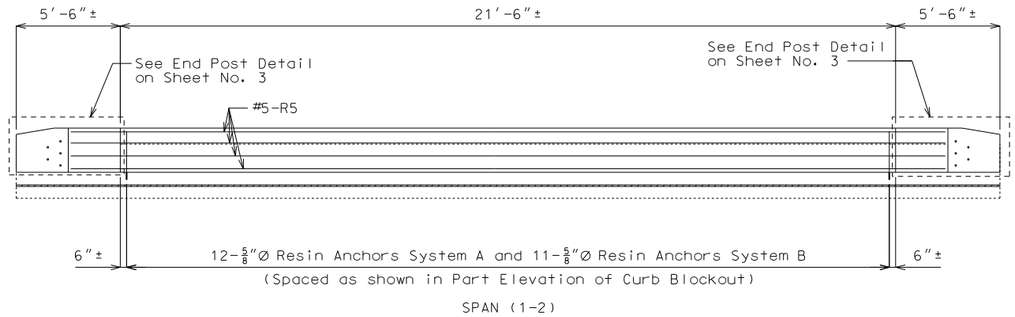
THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED 9/23/2021
ROUTE I-44 STATE MO
DISTRICT BR SHEET NO. 1
COUNTY PHELPS
JOB NO. J5I3482
CONTRACT ID.
PROJECT NO.
BRIDGE NO. A12752

DESCRIPTION | DATE

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

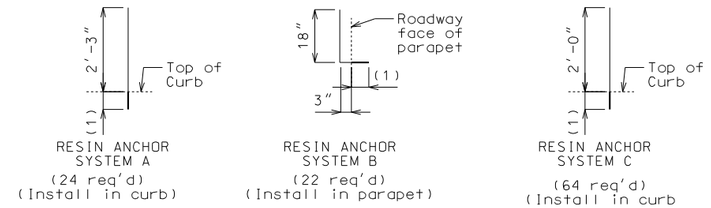
HR GREEN, INC.
16020 SWINGLEY RIDGE ROAD
SUITE 205
ST. LOUIS, MISSOURI 63017
PHONE: (636) 519.0990
CORPORATE LICENSE #2002006608



ELEVATION OF LEFT CURB BLOCKOUT

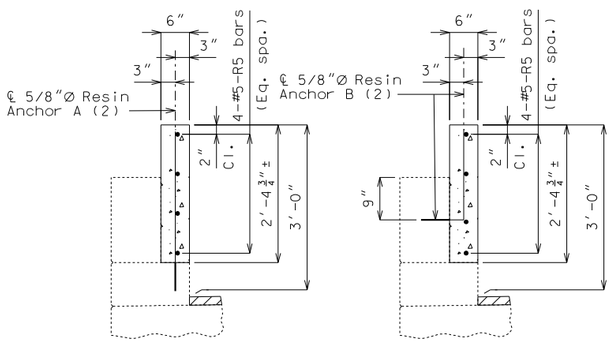
(Right curb blockout similar)

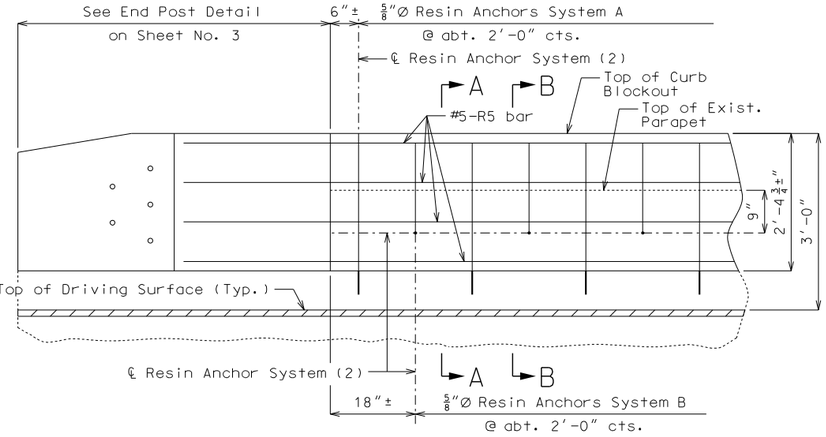
Longitudinal dimensions are along grade and are taken at top outside edge of parapet.



(1) Use manufacturer's embedment length (5″ minimum embedment).

DETAILS OF RESIN ANCHORS





PART ELEVATION OF CURB BLOCKOUT

CURB BLOCKOUT

Notes:

Conventional forming or slip forming may be used.

Concrete in curb blockout shall be Class B-1.

Measurement of curb blockout is to the nearest linear foot, measured at the top outside edge of parapet. (Match existing curb and parapet)

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

Payment for concrete, reinforcement, resin anchor systems and any other work incidental to the curb blockout, complete in place, will be considered completely covered by the contract unit price for Curb Blockout per linear foot.

Cost of any concrete curb or parapet repair will be considered completely covered by the contract unit price for Curb Blockout.

All curb blockout reinforcement shall be epoxy coated.

(2) Shift resin anchors where necessary to clear existing anchor bolts for bridge rail, miss curb outlets (if present) and clear existing reinforcement.

Use a minimum lap of 3′-1″ for #5 horizontal curb blockout bars.

Concrete traffic barrier delineators shall be placed on top of the curb blockout similarly as shown on Missouri Standard Plans 617.10 and in accordance with Sec 617. Concrete traffic barrier delineators will be considered completely covered by the contract unit price for Curb Blockout.

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

The minimum embedment depth in concrete with f′c = 4,000 psi for the resin anchor system shall be that required to meet the minimum ultimate pullout strength in accordance with Sec 1039 but shall not be less than 5 inches.

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

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

Detailed Aug. 2021
Checked Aug. 2021

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

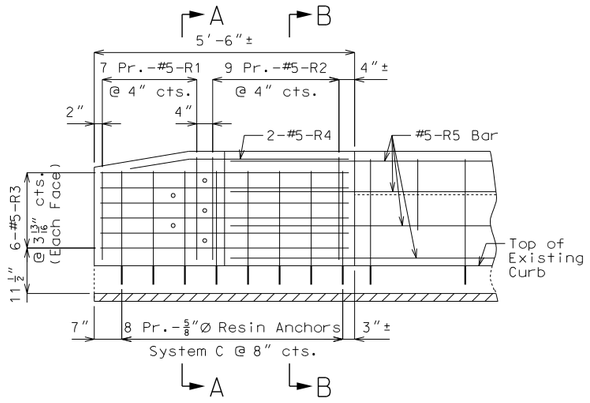
CHRISTOPHER T. HERSINGER
NUMBER PE-2012018080
PROFESSIONAL ENGINEER
STATE OF MISSOURI
THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED 9/23/2021
ROUTE I-44 | STATE MO
DISTRICT BR | SHEET NO. 2
COUNTY PHELPS
JOB NO. J5I3482
CONTRACT ID.
PROJECT NO.
BRIDGE NO. A12752

DESCRIPTION | DATE

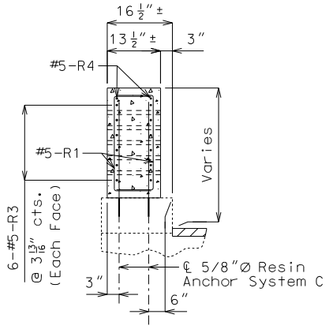
MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

HR GREEN, INC.
16020 SWINGLEY RIDGE ROAD
SUITE 205
ST. LOUIS, MISSOURI 63017
PHONE: (636) 519.0990
CORPORATE LICENSE #2002006608
HRGreen®

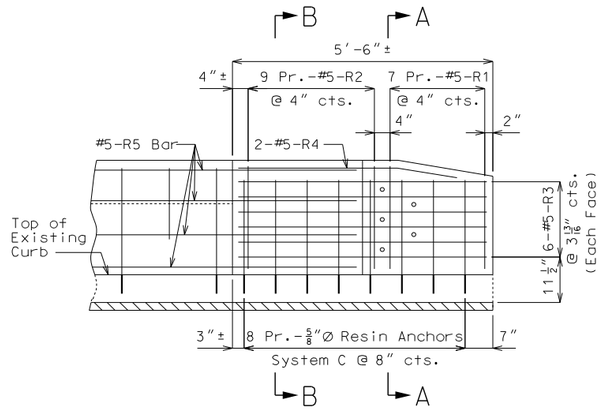


ELEVATION SHOWING REINFORCEMENT

(Right End Post at End Bent No. 2 similar)

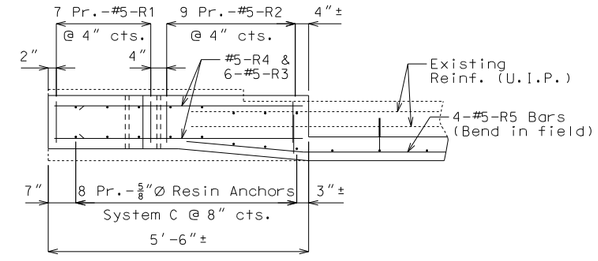


SECTION A-A



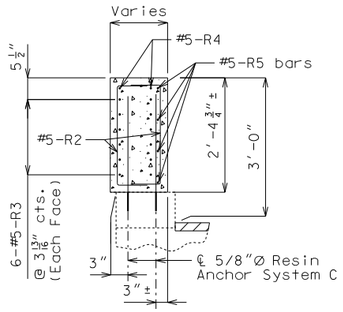
ELEVATION SHOWING REINFORCEMENT

(Right End Post at End Bent No. 1 similar)

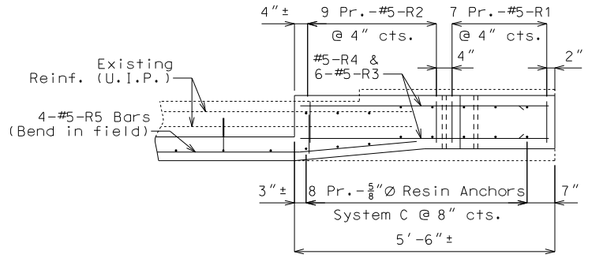


PLAN SHOWING REINFORCEMENT

LEFT END POST AT END BENT NO. 1

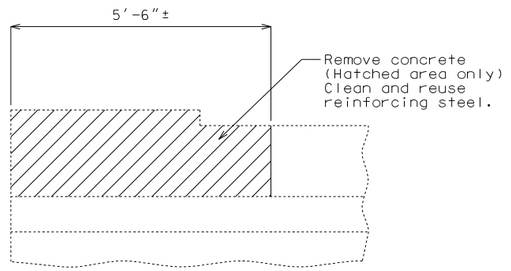


SECTION B-B



PLAN SHOWING REINFORCEMENT

LEFT END POST AT END BENT NO. 2



PART ELEVATION SHOWING END POST CONCRETE REMOVAL

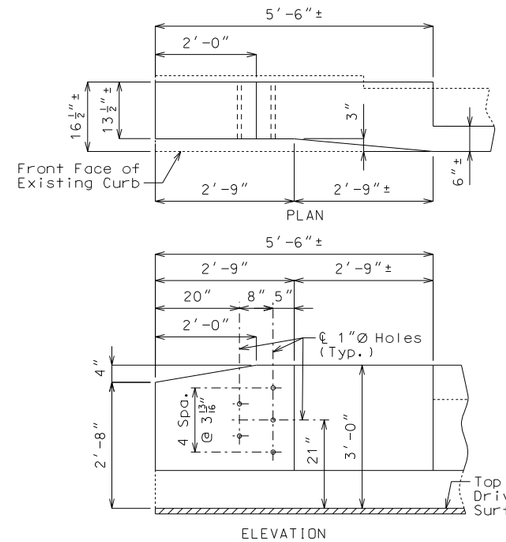
Cost of removing existing end posts will be considered completely covered by the contract unit price for Curb Blockout.

Notes:

Work this sheet with Sheet No. 2.

For details of resin anchors, see Sheet No. 2.

Resin anchors shall be shifted or bent in field to clear one-inch diameter holes by at least 1/2 inch.



DETAILS OF END POST AND GUARD RAIL ATTACHMENT

CURB BLOCKOUT AT END BENTS

Detailed Aug. 2021
Checked Aug. 2021

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

STATE OF MISSOURI
CHRISTOPHER T. HERSINGER
NUMBER PE-2012018080
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED 9/23/2021

ROUTE	STATE
I-44	MO
DISTRICT	SHEET NO.
BR	3

COUNTY PHELPS

JOB NO. J5I3482

CONTRACT ID.

PROJECT NO.

BRIDGE NO. A12752

DESCRIPTION | DATE

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

HR GREEN, INC.
16020 SWINGLEY RIDGE ROAD
SUITE 205
ST. LOUIS, MISSOURI 63017
PHONE: (636) 519.0990
CORPORATE LICENSE #2002006608

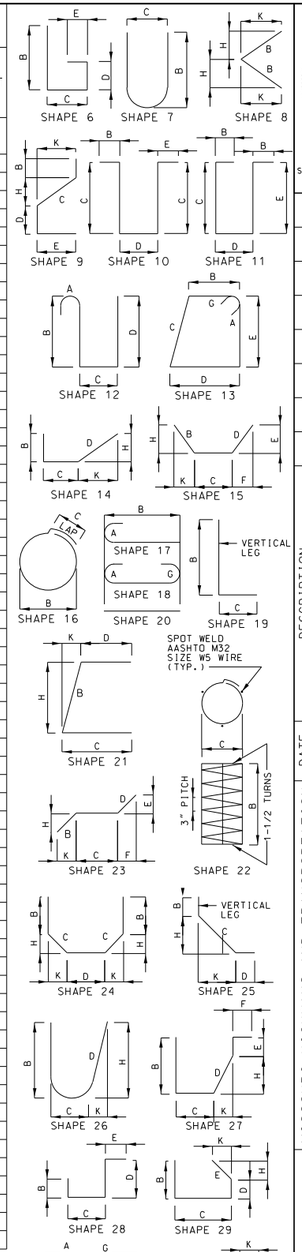
barbill_i Effective: May 2016 Supersedes: Aug. 2008

BILL OF REINFORCING STEEL

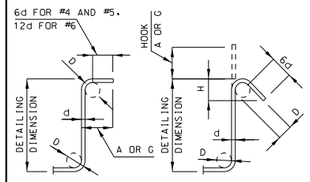
NO. REQ'D.	MARK NO. SIZE	MARK NO. MARK	LOCATION	EPOXY (E)	SHAPE NO.	STIRRUP (S)	SUBSTR. (X)	VARIES (V)	NO. EACH	DIMENSIONS B FT.	B IN.	C FT.	C IN.	D FT.	D IN.	E FT.	E IN.	F FT.	F IN.	H FT.	H IN.	K FT.	K IN.	NOMINAL LENGTH FT.	NOMINAL LENGTH IN.	ACTUAL LENGTH FT.	ACTUAL LENGTH IN.	WEIGHT LBS.
			BLOCKOUT																									
56	5	R1	BLOCKOUT	E	10	S		V	4			10.500		21.750										3	7	3	4	
			INCREMENT =									10.500		2	1.500									3	11	3	8	204
			0.250 INCH																									
72	5	R2	BLOCKOUT	E	10	S						10.500		2	1.500									3	11	3	8	275
48	5	R3	BLOCKOUT	E	20					5	3.000													5	3	5	3	263
8	5	R4	BLOCKOUT	E	15						15.250	3	4.375							2.500		15.000		4	8	4	8	39
8	5	R5	BLOCKOUT	E	20					26	9.000													26	9	26	9	223
			TOTALS																									
	5			E																								1004
			TOTAL																									0
			TOTAL	E																								1004

BILL OF REINFORCING STEEL

NO. REQ'D.	MARK NO. SIZE	MARK NO. MARK	LOCATION	EPOXY (E)	SHAPE NO.	STIRRUP (S)	SUBSTR. (X)	VARIES (V)	NO. EACH	DIMENSIONS B FT.	B IN.	C FT.	C IN.	D FT.	D IN.	E FT.	E IN.	F FT.	F IN.	H FT.	H IN.	K FT.	K IN.	NOMINAL LENGTH FT.	NOMINAL LENGTH IN.	ACTUAL LENGTH FT.	ACTUAL LENGTH IN.	WEIGHT LBS.

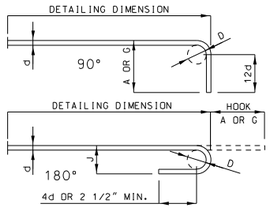


BENDING DIAGRAMS



STIRRUP HOOK DIMENSIONS				
GRADES 40 - 50 - 60 KSI				
BAR SIZE	D (IN.)	90° HOOK HOOK A OR G	135° HOOK HOOK A OR G	135° HOOK APPROX. H
#4	2"	4 1/2"	4 1/2"	3"
#5	2 1/2"	6"	5 1/2"	3 3/4"
#6	4 1/2"	12"	8"	4 1/2"

NOTE: UNLESS OTHERWISE NOTED, DIAMETER "D" IS THE SAME FOR ALL BENDS AND HOOKS ON A BAR.



END HOOK DIMENSIONS				
		ALL GRADES		
BAR SIZE	D (IN.)	180° HOOKS A OR G	180° HOOKS J	90° HOOKS A OR G
#3	2 1/4"	5"	3"	6"
#4	3"	6"	4"	8"
#5	3 3/4"	7"	5"	10"
#6	4 1/2"	8"	6"	12"
#7	5 1/4"	10"	7"	14"
#8	6"	11"	8"	16"
#9	9 1/2"	15"	11 3/4"	19"
#10	10 3/4"	17"	13 1/4"	22"
#11	12"	19"	14 3/4"	2'-0"
#14	18 1/4"	2'-3"	21 3/4"	2'-7"

NOTE:
ALL STANDARD HOOKS AND BENDS OTHER THAN 180 DEGREE ARE TO BE BENT WITH SAME PROCEDURE AS FOR 90 DEGREE STANDARD HOOKS.

HOOKS AND BENDS SHALL BE IN ACCORDANCE WITH THE PROCEDURES AS SHOWN ON THIS SHEET.

E = EPOXY COATED REINFORCEMENT.
S = STIRRUP.
X = BAR IS INCLUDED IN SUBSTRUCTURE QUANTITIES.
V = BAR DIMENSIONS VARY IN EQUAL INCREMENTS BETWEEN DIMENSIONS SHOWN ON THIS LINE AND THE FOLLOWING LINE.
NO. EA. = NUMBER OF BARS OF EACH LENGTH.

NOMINAL LENGTHS ARE BASED ON OUT TO OUT DIMENSIONS SHOWN IN BENDING DIAGRAMS AND ARE LISTED FOR FABRICATORS USE. (NEAREST INCH)

ACTUAL LENGTHS ARE MEASURED ALONG CENTERLINE BAR TO THE NEAREST INCH.

PAYWEIGHTS ARE BASED ON ACTUAL LENGTHS.

FOUR ANGLE OR CHANNEL SPACERS ARE REQUIRED FOR EACH COLUMN SPIRAL. SPACERS ARE TO BE PLACED ON INSIDE OF SPIRALS. LENGTH AND WEIGHT OF COLUMN SPIRALS DO NOT INCLUDE SPLICES OR SPACERS.

REINFORCING STEEL (GRADE 60) FY = 60.000 PSI.

Detailed Aug. 2021
Checked Aug. 2021

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

STATE OF MISSOURI
PROFESSIONAL ENGINEER
CHRISTOPHER T. HERSINGER
NUMBER PE-2012018080
THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED 9/23/2021
ROUTE I-44 | STATE MO
DISTRICT BR | SHEET NO. 4
COUNTY PHELPS
JOB NO. J5I3482
CONTRACT ID.
PROJECT NO.
BRIDGE NO. A12752

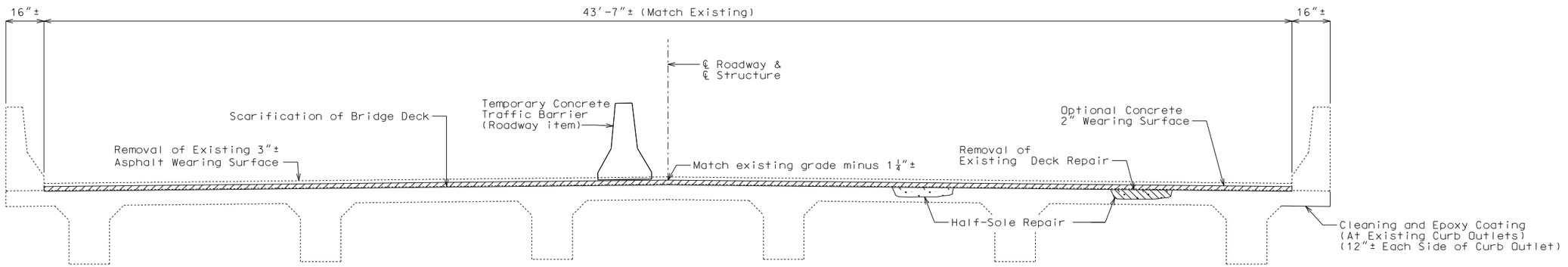
DESCRIPTION
DATE

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

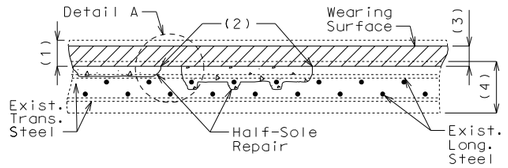
HR GREEN, INC.
16020 SWINGLEY RIDGE ROAD
SUITE 205
ST. LOUIS, MISSOURI 63017
PHONE: (636) 519.0990
CORPORATE LICENSE #2002006608

SEC/SUR 26 TWP 38N RGE 7W

U.I.P. AND REHABILITATE EXISTING (30′) CONCRETE DECK GIRDER SPAN



TYPICAL SECTION THRU EXISTING SLAB



HALF-SOLE REPAIR

(1) Removal of existing 3"± asphalt wearing surface plus 1/4" of existing deck

(2) 1" vertical side shall be established outside the deteriorated area.

(3) 2" minimum concrete wearing surface

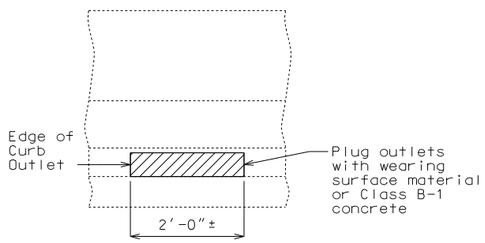
(4) Original depth of deck

Estimated Quantities

Item		Total
Scarification of Bridge Deck	sq. yard	157
Removal of Asphalt Wearing Surface	sq. foot	1416
Removal of Existing Deck Repair	sq. foot	25
Optional Concrete Wearing Surface	sq. yard	157
Diamond Grinding	sq. yard	157
Half-Sole Repair	sq. foot	150
Cleaning and Epoxy Coating	sq. foot	54
Plugging Existing Curb Outlet	each	6

Clearance around top bar and around bottom bar at the intersection of top bar shall be required when more than half the diameter of the top bar is exposed.

DETAIL A



PART ELEVATION SHOWING PLUGGING OF CURB OUTLETS

Notes:

New concrete wearing surface not shown for clarity.

Cost of labor and materials required to plug existing curb outlets will be considered completely covered by the contract unit price for Plugging Curb Outlet, per each.

Estimated material required to fill all curb outlets is 0.3 cubic yards.

Optional Concrete Wearing Surface

Type of Concrete Wearing Surface	Type Used (✓)
Low Slump Concrete Wearing Surface	
Latex Modified Concrete Wearing Surface	
Silica Fume Concrete Wearing Surface	

MoDOT construction personnel will complete column labeled "Type Used (✓)".

The contractor shall select one of the alternate concrete wearing surfaces listed in the table. The alternate concrete wearing surface method of measurement and basis of payment shall be in accordance with Sec 505.

General Notes:

Design Specifications:

2002 AASTHO LFD (17th Ed.) Standard Specifications
Bridge Deck Rating = 6

Design Loading:

H20-S16-44 (1953)

H20-44 (1977)

Design Unit Stresses:

Class B-2 Concrete (Half-Sole Repair) f′c = 4,000 psi

Miscellaneous:

Roadway surfacing adjacent to bridge ends shall match new bridge wearing surface (roadway item).

All concrete repairs shall be in accordance with Sec 704, unless otherwise noted.

Outline of existing work is indicated by light dashed lines. Heavy lines indicate new work.

Contractor shall verify all dimensions in field before ordering new material.

In order to maintain grade and a minimum thickness of wearing surface as shown on plans it may be necessary to use additional quantities of wearing surface at various locations throughout the structure. The cost of furnishing and installing the wearing surface will be considered completely covered in the contract unit price, including all additional labor, materials or equipment for variations in thickness of wearing surface.

Traffic Handling:

Traffic to be maintained on structure during construction. See roadway plans for traffic control.

REPAIRS TO BRIDGE: ROUTE I-44 WB OVER BRANCH OF BOURBEUSE RIVER

ROUTE I-44 FROM ROUTE 63 TO ROUTE 8
ABOUT 2.3 MILES WEST OF ROUTE 8
BEG. STA. 1396+77.00± (Match Existing)

STD. 617.20

Designed Aug. 2021
Detailed Aug. 2021
Checked Aug. 2021

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

STATE OF MISSOURI
CHRISTOPHER T. HERSINGER
NUMBER PE-2012018080
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED 9/23/2021
ROUTE I-44 | STATE MO
DISTRICT BR | SHEET NO. 1
COUNTY PHELPS
JOB NO. J5I3482
CONTRACT ID.
PROJECT NO.
BRIDGE NO. L05273

DESCRIPTION | DATE

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

HR GREEN, INC.
16020 SWINGLEY RIDGE ROAD
SUITE 205
ST. LOUIS, MISSOURI 63017
PHONE: (636) 519.0990
CORPORATE LICENSE #2002006608

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

DESIGN DESIGNATION (WESTBOUND)

A.A.D.T. - 2016 = 15,860
A.A.D.T. - 2036 = 17,460
T = 30%
V = 70

FUNCTIONAL CLASSIFICATION-INTERSTATE

DESIGN DESIGNATION (EASTBOUND)

A.A.D.T. - 2016 = 18,100
A.A.D.T. - 2036 = 20,210
T = 31%
V = 70

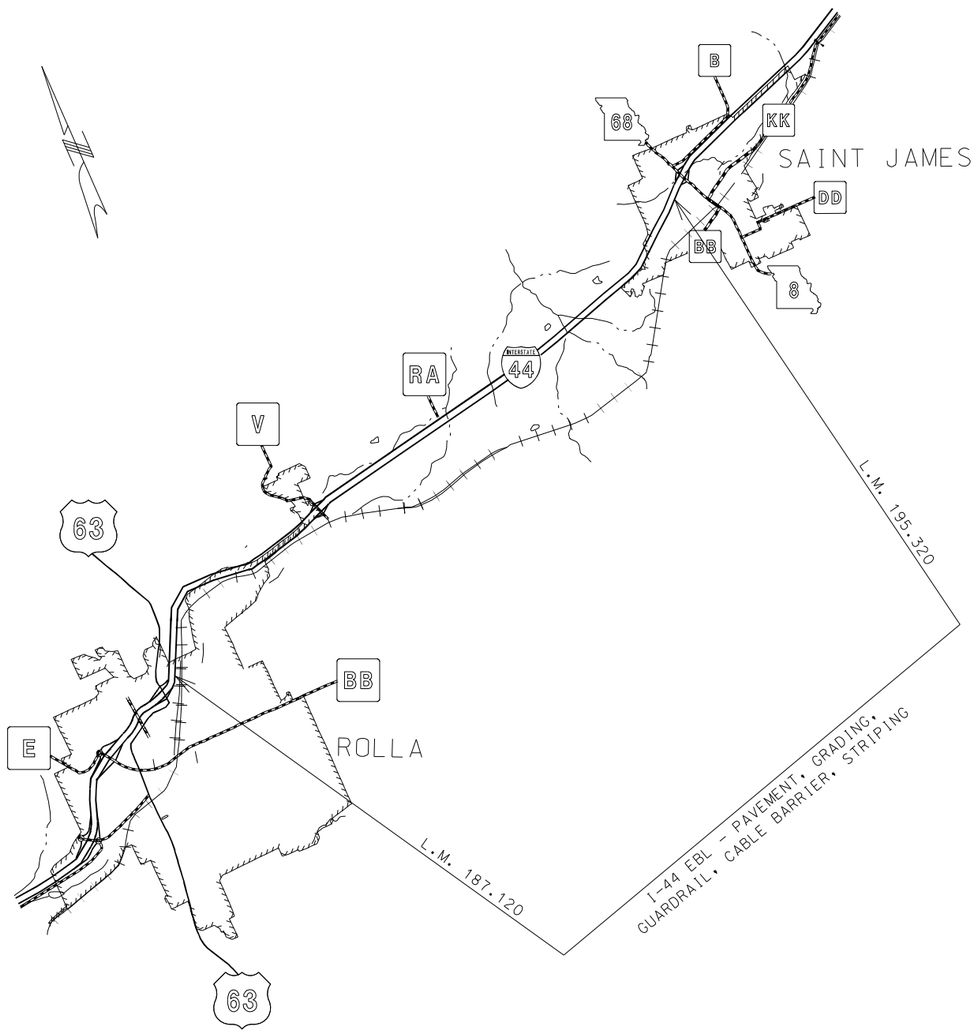
FUNCTIONAL CLASSIFICATION-INTERSTATE

NO NEW R/W

CONVENTIONAL SYMBOLS
(USED IN PLANS)

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

NOTE: DASHED OR OPEN SYMBOLS INDICATE EXISTING FEATURES



THE EXISTENCE AND APPROXIMATE LOCATION OF UTILITY FACILITIES KNOWN TO EXIST, AS SHOWN ON THE PLANS, ARE BASED ON THE BEST INFORMATION AVAILABLE TO THE COMMISSION AT THIS TIME. THIS INFORMATION IS PROVIDED BY THE COMMISSION "AS-IS" AND THE COMMISSION EXPRESSLY DISCLAIMS ANY REPRESENTATION OR WARRANTY AS TO THE COMPLETENESS, ACCURACY, OR SUITABILITY OF THE INFORMATION FOR ANY USE. RELIANCE UPON THIS INFORMATION IS DONE AT THE RISK AND PERIL OF THE USER, AND THE COMMISSION SHALL NOT BE LIABLE FOR ANY DAMAGES THAT MAY ARISE FROM ANY ERROR IN THE INFORMATION. IT IS, THEREFORE, THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY THE EXISTENCE, LOCATION AND STATUS OF ANY FACILITY. SUCH VERIFICATION INCLUDES DIRECT CONTACT WITH THE LISTED UTILITIES.

INDEX OF SHEETS

DESCRIPTION	SHEET NUMBER
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LIGHTING (LT)	42-45
PAVEMENT MARKING (PM)	46-54
CULVERT SECTIONS (CS)	55
CROSS SECTIONS (XS)	1-18

EASTBOUND LENGTH OF PROJECT

BEGINNING OF PROJECT	LOG MILE 187.120	
END OF PROJECT	LOG MILE 195.320	
APPARENT LENGTH	43,296.000	FEET
EQUATIONS AND EXCEPTIONS:	0.000	FEET
TOTAL CORRECTIONS	0.000	FEET
NET LENGTH OF PROJECT	43,296.000	FEET
STATE LENGTH	8.200	MILES
FOR INFORMATION ONLY ESTIMATED DISTURBED ACRES	5	ACRES

STATE OF MISSOURI
JASON S. DOHRMANN
PE-2004017159
PROFESSIONAL ENGINEER

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

DATE PREPARED: 9/22/2021

ROUTE	STATE
I-44	MO
DISTRICT	SHEET NO.
CD	1

COUNTY: PHELPS
JOB NO.: J5I3572
CONTRACT ID.:
PROJECT NO.:
BRIDGE NO.:

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

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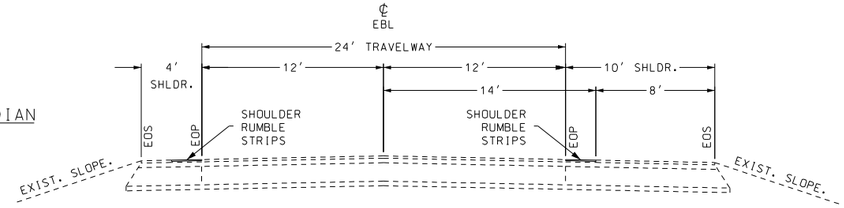
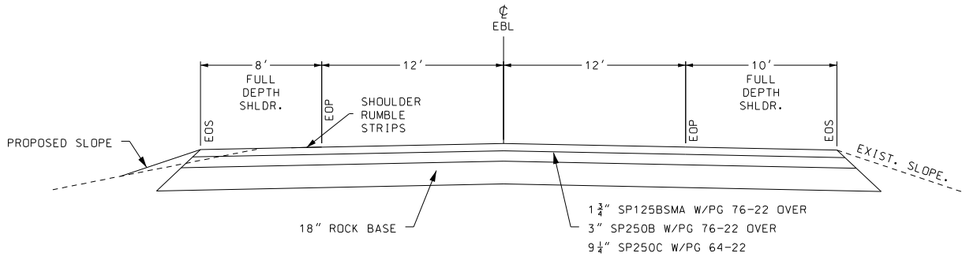
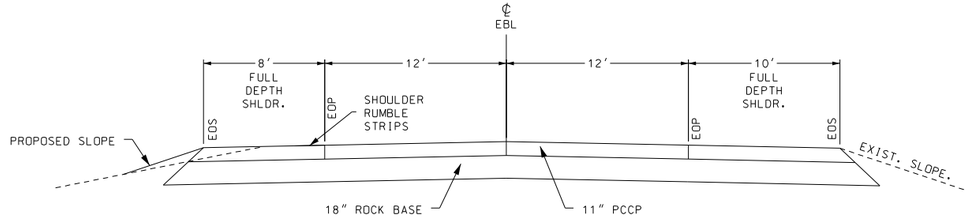


ROUTE 44 EASTBOUND LANE (EBL)
TYPICAL SECTION ON TANGENT
EXISTING PAVEMENT



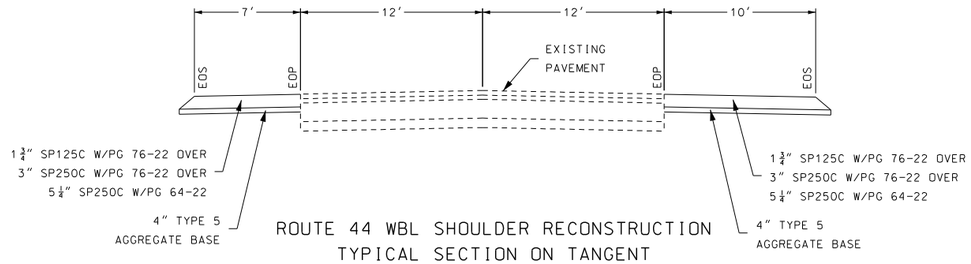
ROUTE 44 EBL RECONSTRUCTION
TYPICAL SECTION ON TANGENT
ALTERNATE PAVEMENT A - ASPHALT

L.M. 187.12 TO L.M. 195.320



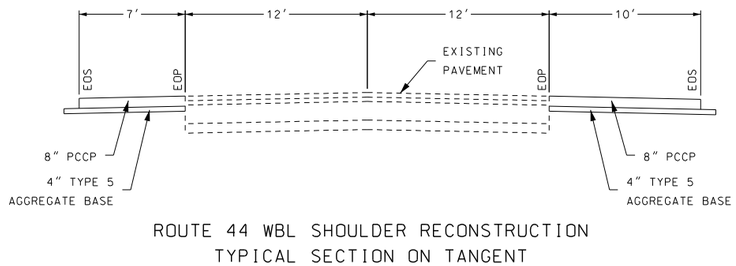
ROUTE 44 EBL RECONSTRUCTION
TYPICAL SECTION ON TANGENT
ALTERNATE PAVEMENT B - CONCRETE

L.M. 187.12 TO L.M. 195.320



ROUTE 44 WBL SHOULDER RECONSTRUCTION
TYPICAL SECTION ON TANGENT
ALTERNATE TEMPORARY SHOULDER C - ASPHALT

L.M. 97.774 TO L.M. 106.172 OUTSIDE SHLDR.
L.M. 97.556 TO L.M. 106.172 INSIDE SHLDR.



ROUTE 44 WBL SHOULDER RECONSTRUCTION
TYPICAL SECTION ON TANGENT
ALTERNATE TEMPORARY SHOULDER D - CONCRETE

L.M. 97.774 TO L.M. 106.172 OUTSIDE SHLDR.
L.M. 97.556 TO L.M. 106.172 INSIDE SHLDR.

GENERAL NOTES:

ESTIMATE FACTORS:
TACK = 0.08 GAL/SY FOR OVERLAY
TACK = 0.10 GAL/SY FOR MILL/FILL
SP125BSMA (PG 76-22) = 1.965 TON/CY
SP125C (PG 76-22) = 1.980 TON/CY
SP250B (PG 76-22) = 2.020 TON/CY
SP250C (PG 76-22) = 2.020 TON/CY
SP250C (PG 64-22) = 2.020 TON/CY
BIT PVMT MIX LEVELING COURSE (PG 64-22) = 1.948 TON/CY

LOG MILES GIVEN ARE IN THE DIRECTION OF TRAFFIC.
LOG MILES ARE APPROXIMATE. VERIFY LOCATIONS IN FIELD.

NOT TO SCALE

TYPICAL SECTIONS
SHEET 1 OF 2

STATE OF MISSOURI
JASON S. DOHRMANN
PE-2004017159
PROFESSIONAL ENGINEER

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

DATE PREPARED: 9/23/2021
ROUTE: I-44 | STATE: MO
DISTRICT: CD | SHEET NO.: 2
COUNTY: PHELPS
JOB NO.: J5I3572
CONTRACT ID.:
PROJECT NO.:
BRIDGE NO.:

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REV.	DESCRIPTION	DATE

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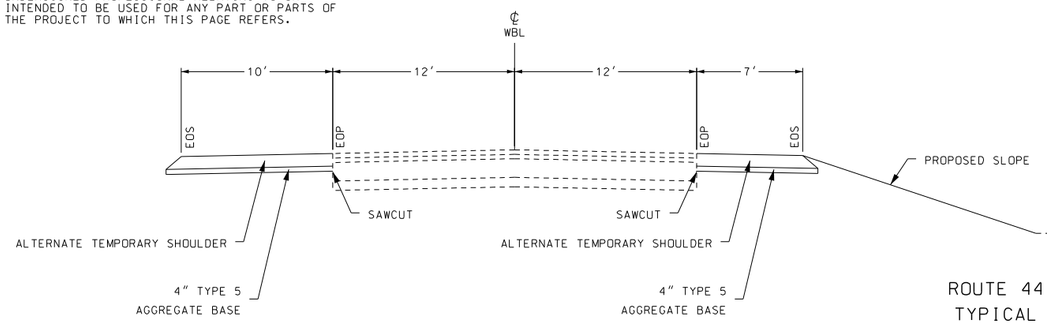
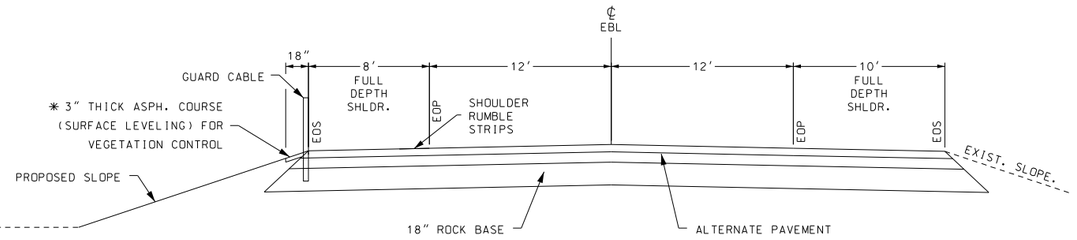
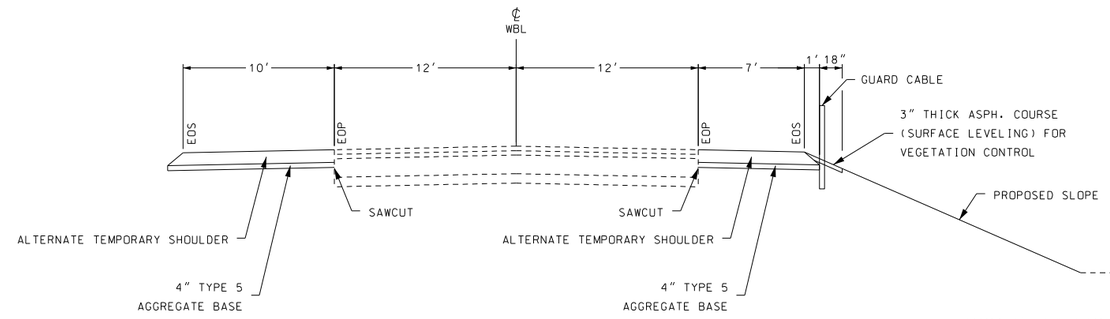


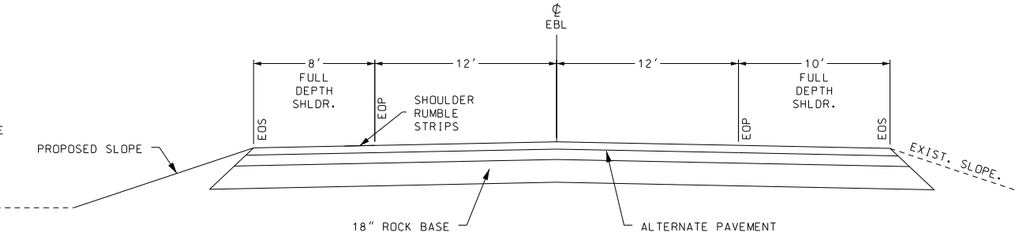


ROUTE 44 EBL RECONSTRUCTION
TYPICAL SECTION ON TANGENT

L.M. 186.962 TO L.M. 188.727
L.M. 188.739 TO L.M. 191.321
L.M. 191.350 TO L.M. 192.676
L.M. 193.320 TO L.M. 193.560

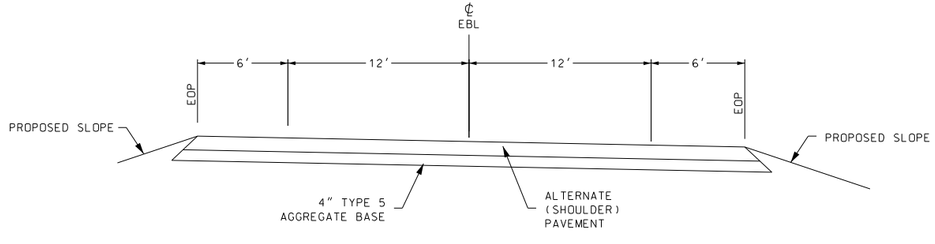
✱ EXTEND ASPHALT FROM EDGE OF SHOULDER TO FACE OF BULLNOSE FOR VEGETATION CONTROL (LOG MILE 189.730 TO 189.760)





ROUTE 44 EBL RECONSTRUCTION
TYPICAL SECTION ON TANGENT

L.M. 97.556 TO L.M. 99.586
L.M. 99.826 TO L.M. 100.002
L.M. 100.016 TO L.M. 100.461



ROUTE 44 EBL RECONSTRUCTION
TYPICAL SECTION - CROSSOVER
ALTERNATE PAVEMENT (SAME AS SHOULDER)

NOTES:
ADDITIONAL DESIGN DETAILS INCLUDING SUPERELEVATION TRANSITIONS AND DESIGN ELEVATIONS WILL BE PROVIDED TO THE CONTRACTOR DURING CONSTRUCITON.

ESTIMATE FACTORS:
TACK = 0.08 GAL/SY FOR OVERLAY
TACK = 0.10 GAL/SY FOR MILL/FILL
SP125BSMA (PG 76-22) = 1.965 TON/CY
SP125C (PG 76-22) = 1.980 TON/CY
SP250B (PG 76-22) = 2.020 TON/CY
SP250C (PG 76-22) = 2.020 TON/CY
SP250C (PG 64-22) = 2.020 TON/CY
BIT PVMT MIX LEVELING COURSE (PG 64-22) = 1.948 TON/CY

LOG MILES GIVEN ARE IN THE DIRECTION OF TRAFFIC.
LOG MILES ARE APPROXIMATE. VERIFY LOCATIONS IN FIELD.

NOT TO SCALE

TYPICAL SECTIONS
SHEET 2 OF 2

STATE OF MISSOURI
JASON S. DOHRMANN
PE-2004017159
PROFESSIONAL ENGINEER

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CORPORATE LICENSE #2002006608

REMOVAL OF IMPROVEMENTS – EB LANES				
LOG MILE	LOG MILE	LOCATION	APPROX QUANTITY LF	DESCRIPTION
186.964	188.727	EBL-CENTER	9308.6	EXIST GUARD CABLE BARRIER, POSTS, ANCHORS
188.739	189.146	EBL-CENTER	2149.0	EXIST GUARD CABLE BARRIER, POSTS, ANCHORS
188.739	189.243	EBL-LT	2661.1	EXIST GUARD CABLE BARRIER, POSTS, ANCHORS
189.234	189.724	EBL-CENTER	2587.2	EXIST GUARD CABLE BARRIER, POSTS, ANCHORS
189.769	190.007	EBL-CENTER	1256.6	EXIST GUARD CABLE BARRIER, POSTS, ANCHORS
189.992	190.208	EB-RT	1140.5	EXIST. GUARDRAIL, CET, END ANCHOR
190.004	190.336	EBL-LT	1753.0	EXIST GUARD CABLE BARRIER, POSTS, ANCHORS
190.078	190.734	EBL-CENTER	3463.7	EXIST GUARD CABLE BARRIER, POSTS, ANCHORS
190.520	190.647	EBL-LT	670.6	EXIST GUARD CABLE BARRIER, POSTS, ANCHORS
190.540		EBL-LT		EXIST. CONC. HEADWALL, 6-FEET OF CONC. PIPE, CL. 3 EXCAVATION
190.698	190.794	EB-RT	506.9	EXIST. GUARDRAIL, CET, END ANCHOR
190.726	190.823	EBL-LT	512.2	EXIST GUARD CABLE BARRIER, POSTS, ANCHORS
190.813	191.321	EBL-CENTER	2682.2	EXIST GUARD CABLE BARRIER, POSTS, ANCHORS
191.350	192.366	EBL-CENTER	5364.5	EXIST GUARD CABLE BARRIER, POSTS, ANCHORS
191.488	191.768	EBL-LT	1478.4	EXIST GUARD CABLE BARRIER, POSTS, ANCHORS
191.977	192.057	EBL-RT	422.4	EXIST. GUARDRAIL, CET, END ANCHOR
192.046	193.122	EBL-LT	5681.3	EXIST GUARD CABLE BARRIER, POSTS, ANCHORS
192.860	193.055	EB-RT	1029.6	EXIST. GUARDRAIL, CET, END ANCHOR
193.130		EBL-LT		EXIST. CONC. HEADWALL, 6-FEET OF CONC. PIPE, CL. 3 EXCAVATION
193.136	193.225	EBL-LT	469.9	EXIST GUARD CABLE BARRIER, POSTS, ANCHORS
193.383	193.653	EBL-CENTER	1425.6	EXIST GUARD CABLE BARRIER, POSTS, ANCHORS
193.431	193.649	EB-RT	1151.0	EXIST. GUARDRAIL, CET, END ANCHOR
193.630	194.137	EBL-LT	2677.0	EXIST GUARD CABLE BARRIER, POSTS, ANCHORS
194.127	195.586	EBL-CENTER	7703.5	EXIST GUARD CABLE BARRIER, POSTS, ANCHORS
194.310	194.373	EB-RT	332.6	EXIST. GUARDRAIL, CET, END ANCHOR
REMOVAL OF IMPROVEMENTS = 1 LUMP SUM				

REMOVAL OF IMPROVEMENTS – WB LANES				
LOG MILE	LOG MILE	LOCATION	APPROX QUANTITY LF	DESCRIPTION
98.520	99.682	WBL-LT	6135.4	EXIST GUARD CABLE BARRIER, POSTS, ANCHORS
99.826	100.002	WBL-LT	929.3	EXIST GUARD CABLE BARRIER, POSTS, ANCHORS
100.016	100.780	WBL-LT	4033.9	EXIST GUARD CABLE BARRIER, POSTS, ANCHORS
102.314	102.412	WBL-LT	517.4	EXIST GUARD CABLE BARRIER, POSTS, ANCHORS
103.048	103.135	WBL-LT	459.4	EXIST GUARD CABLE BARRIER, POSTS, ANCHORS
103.894	104.001	WBL-LT	565.0	EXIST GUARD CABLE BARRIER, POSTS, ANCHORS
109.730	109.837	WBL-LT	545.00	EXIST GUARDRAIL, POSTS, END ANCHORS, CET'S
109.800	109.825	WBL-RT	130.00	EXIST GUARDRAIL, POSTS, END ANCHORS, CET'S
REMOVAL OF IMPROVEMENTS = 1 LUMP SUM				

REMOVAL OF IMPROVEMENTS – LOCATION E								
SHEET NO	STA	STA	LOC	ROADWAY	LF	SF	EACH	DESCRIPTIONS
15	52+97 .9	64+33 .2	LT	LOCATION E	1136.7			GUARDRAIL WITH END TERMINALS
15	56+57 .2		LT	LOCATION E	2.0			24" RCP
15	56+57 .2		LT	LOCATION E			1	CONCRETE HEADWALL AND WINGWALLS
15	56+57 .2		LT	LOCATION E		20.4		CONCRETE APRON
15	56+42 .2	57+96 .3	LT	LOCATION E		2483.5		CONCRETE DITCH
15	57+64 .5		LT	LOCATION E	3.0			18" RCP
15	57+64 .5		LT	LOCATION E			1	CONCRETE HEADWALL AND WINGWALLS
15	57+64 .5		LT	LOCATION E		9.1		CONCRETE APRON
15	59+59 .0		LT	LOCATION E			1	SIGNS, POST AND FOOTING
15	63+00 .0		LT	LOCATION E			1	SIGNS, POST AND FOOTING
15	63+31 .4		LT	LOCATION E	2.0			30" PIPE
15	63+31 .4		LT	LOCATION E			1	CONCRETE HEADWALL AND WINGWALLS
15	63+31 .4		LT	LOCATION E		41.7		CONCRETE APRON
15	63+31 .4	63+56 .2	LT	LOCATION E		292.2		CONCRETE DITCH
15	63+56 .2		LT	LOCATION E	3.0			4'x3' CONCRETE BOX CULVERT
15	63+56 .2		LT	LOCATION E			1	CONCRETE HEADWALL AND WINGWALLS
15	63+56 .2		LT	LOCATION E		32.3		CONCRETE APRON
REMOVAL OF IMPROVEMENTS = 1 LUMP SUM								

SUMMARY OF QUANTITIES
SHEET 1 OF 9

STATE OF MISSOURI
JASON S. DOHRMANN
PE-2004017159
PROFESSIONAL ENGINEER

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

DATE PREPARED
9/22/2021

ROUTE	STATE
I-44	MO
DISTRICT	SHEET NO.
CD	3

COUNTY
PHELPS

JOB NO.
J5I3572

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)

HR GREEN, INC.
16020 SWINGLEY RIDGE ROAD,
SUITE 205
ST. LOUIS, MISSOURI 63017
PHONE: (636) 519.0990
CORPORATE LICENSE #2002006608

HRGreen®

MOBILIZATION	1 LUMP SUM
ADDITIONAL MOBILIZATION FOR SEEDING	2 EACH
SEEDING - COOL SEASON MIXTURES	62 ACRES
TEMPORARY SEEDING AND MULCHING	62 ACRES
CONTRACTOR FURNISHED SURVEYING AND STAKING	1 LUMP SUM
WORK ZONE INTELLIGENT TRANSPORTATION SYSTEM	1 LUMP SUM

EARTHWORK

XS SHEET NO	ROADWAY	UNCLASSIFIED EXCAVATION CY	FILL CY	COMPACTING EMBANKMENT CY	EMBANKMENT IN PLACE CY
1-18	LOCATION E	109	2259		
	SUBTOTAL	109	2259	87	2172
	PAY TOTAL	109		87	2172

NOTES:
1. 20% SHRINK.

MODIFIED LINEAR GRADING - CLASS 2

LOG MILE	LOG MILE	LOCATION	LENGTH FT	MODIFIED LINEAR GRADING CLASS 2 100FT	REMARKS
EBL - INSIDE SHOULDER					
187.120	189.458	EBL	12344.6	123	BOP MAINLINE TO TAPER
189.458	189.505	EBL	248.2	2	DECEL TAPER TO GORE AT HWY V
189.505	189.592	EBL	459.4	5	EXIT GORE AREA AT HWY V
189.592	189.922	EBL	1742.4	17	MAINLINE FROM EXIT TO ENTRANCE GORES AT HWY V
189.922	190.060	EBL	728.6	7	ENTRANCE GORE AREA AT RTE. HWY V
190.060	190.117	EBL	301.0	3	ACCEL TAPER FROM HWY V
190.117	193.310	EBL	16859.0	169	MAINLINE TO BRIDGE EXCEPTION
193.320	195.320	EBL	10560.0	106	BRIDGE EXCEPTION TO EOP
EBL - OUTSIDE SHOULDER					
187.120	189.458	EBL	12344.6	123	BOP MAINLINE TO TAPER
189.458	189.505	EBL	248.2	2	DECEL TAPER TO GORE AT HWY V
189.505	189.592	EBL	459.4	5	EXIT GORE AREA AT HWY V
189.592	189.922	EBL	1742.4	17	MAINLINE FROM EXIT TO ENTRANCE GORES AT HWY V
189.922	190.060	EBL	728.6	7	ENTRANCE GORE AREA AT RTE. HWY V
190.060	190.117	EBL	301.0	3	ACCEL TAPER FROM HWY V
190.117	193.310	EBL	16859.0	169	MAINLINE TO BRIDGE EXCEPTION
193.320	195.320	EBL	10560.0	106	BRIDGE EXCEPTION TO EOP
WBL - INSIDE SHOULDER					
97.764	99.820	WBL	10855.7	109	INSIDE SHOULDER BOP TO BRIDGE EXCEPTION
99.826	106.172	WBL	33506.9	335	INSIDE SHOULDER BRIDGE EXCEPTION TO EOP
WBL - OUTSIDE SHOULDER					
97.774	99.820	WBL	10802.9	108	OUTSIDE SHOULDER BOP TO BRIDGE EXCEPTION
99.826	103.065	WBL	17101.9	171	OUTSIDE SHOULDER BRIDGE EXCEPTION TO HWY V EXIT
103.237	103.520	WBL	1494.2	15	OUTSIDE SHOULDER HWY V EXIT TO HWY V ENTRANCE
103.679	106.172	WBL	13163.0	132	OUTSIDE SHOULDER HWY V ENTRANCE TO EOP
			SUBTOTAL	1734	
			PAY TOTAL	1740	

SUMMARY OF QUANTITIES
SHEET 2 OF 9

STATE OF MISSOURI
JASON S. DOHRMANN
PE-2004017159
PROFESSIONAL ENGINEER

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

DATE PREPARED 9/22/2021

ROUTE	STATE
I-44	MO
DISTRICT	SHEET NO.
CD	3

COUNTY PHELPS
JOB NO. J5I3572
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)

HR GREEN, INC.
16020 SWINGLEY RIDGE ROAD.
SUITE 205
ST. LOUIS, MISSOURI 63017
PHONE: (636) 519.0990
CORPORATE LICENSE #2002006608

ALTERNATE PAVEMENT A - ASPHALT - EB LANES

LOG MILE	LOG MILE	LOCATION	LENGTH FT	AVERAGE WIDTH FT	AREA SF	14" ASPHALTIC CONCRETE PAVEMENT (1) SY	FURNISH ROCK BASE SY	PLACING ROCK BASE SY	REMARKS
187.120	189.458	EBL	12344.6	42	518473	57608	57608	57608	BOP MAINLINE TO GORE AT HWY V (INCL. FULL DEPTH SHLDRS)
189.458	189.505	EBL	248.2	VAR	11918	1324	1324	1324	DECEL TAPER TO GORE AT HWY V
189.505	189.592	EBL	459.4	VAR	34735	3859	3859	3859	MAINLINE GORE TO GORE EXIT AT HWY V
189.592	189.922	EBL	1742.4	42	73181	8131	8131	8131	MAINLINE FROM EXIT TO ENTRANCE GORES AT HWY V
189.922	190.060	EBL	728.6	VAR	38722	4302	4302	4302	ENTRANCE GORE AREA AT RTE. HWY V
190.060	190.117	EBL	301.0	VAR	14402	1600	1600	1600	ACCEL TAPER FROM HWY V
190.117	193.310	EBL	16859.0	42	708078	78675	78675	78675	MAINLINE TO BRIDGE EXCEPTION
193.320	195.320	EBL	10560.0	42	443520	49280	49280	49280	MAINLINE BRIDGE EXCEPTION TO EOP
189.592	0.019	EBL	64.4	32	2061	229	229	229	HWY V EXIT RAMP
0.170	189.922	EBL	20.8	32	666	74	74	74	HWY V ENTRANCE RAMP
					SUBTOTAL	205082	205082	205082	
					PAY TOTAL	205090	205090	205090	

(1) ASPHALTIC CONCRETE MIXTURE:
1.75" SP125BSMA - PG76-22
3.00 SP250B - PG76-22
9.25" SP250C - PG64-22
NOTE: PAVEMENT EDGE TREATMENT SHALL BE INCIDENTAL TO ALTERNATE PAVEMENT.

ALTERNATE TEMPORARY SHOULDER C - ASPHALT

LOG MILE	LOG MILE	LOCATION	LENGTH FT	AVERAGE WIDTH FT	AREA SF	10" ASPHALTIC CONCRETE PAVEMENT (1) SY	4-INCH AGGREGATE BASE SY	REMARKS
97.774	99.820	WBL	10802.9	10	108029	12003	12003	OUTSIDE SHOULDER BOP TO BRIDGE EXCEPTION
97.764	99.820	WBL	10855.7	7	75990	8443	8443	INSIDE SHOULDER BOP TO BRIDGE EXCEPTION
99.826	103.065	WBL	17101.9	10	171019	19002	19002	OUTSIDE SHOULDER BRIDGE EXCEPTION TO HWY V EXIT
99.826	106.172	WBL	33506.9	7	234548	26061	26061	INSIDE SHOULDER BRIDGE EXCEPTION TO EOP
103.237	103.520	WBL	1494.2	10	14942	1660	1660	OUTSIDE SHOULDER HWY V EXIT TO HWY V ENTRANCE
103.679	106.172	WBL	13163.0	10	131630	14626	14626	OUTSIDE SHOULDER HWY V ENTRANCE TO EOP
187.008	187.141	MEDIAN (EB LOG)	700.0	VAR	7735	859	859	TEMPORARY CROSSOVER FOR MOT
195.369	195.506	MEDIAN (EB LOG)	725.0	VAR	6854	762	762	TEMPORARY CROSSOVER FOR MOT
97.581	97.647	WBL	350.0	8	2800	311	311	OUTSIDE SHOULDER TO RTE 68/8 ENTR GORE
					SUBTOTAL	83727	83727	
					PAY TOTAL	83730	83730	

(1) ASPHALTIC CONCRETE MIXTURE:
1.75" SP125C - PG76-22
3.00 SP250C - PG76-22
5.25" SP250C - PG64-22

ALTERNATE SHOULDER RUMBLE STRIPS C - ASPHALT

LOG MILE	LOG MILE	LOCATION	LENGTH FT	BITUMINOUS SHOULDER RUMBLE STRIP		REMARKS
				INSIDE SHOULDER STA	OUTSIDE SHOULDER STA	
187.120	189.458	EBL	12344.6	123.4	123.4	BOP MAINLINE TO GORE AT HWY V (INCL. FULL DEPTH SHLDRS)
189.458	189.505	EBL	248.2	2.5	2.5	DECEL TAPER TO GORE AT HWY V
189.505	189.592	EBL	459.4	4.6	4.6	MAINLINE GORE TO GORE EXIT AT HWY V
189.592	189.922	EBL	1742.4	17.4	17.4	MAINLINE FROM EXIT TO ENTRANCE GORES AT HWY V
189.922	190.060	EBL	728.6	7.3	7.3	ENTRANCE GORE AREA AT RTE. HWY V
190.060	190.117	EBL	301.0	3.0	3.0	ACCEL TAPER FROM HWY V
190.117	193.310	EBL	16859.0	168.6	168.6	MAINLINE TO BRIDGE EXCEPTION
193.320	195.320	EBL	10560.0	105.6	105.6	MAINLINE BRIDGE EXCEPTION TO EOP
97.774	99.820	WBL	10802.9		108.0	OUTSIDE SHOULDER BOP TO BRIDGE EXCEPTION
97.764	99.820	WBL	10855.7	108.6		INSIDE SHOULDER BOP TO BRIDGE EXCEPTION
99.826	103.065	WBL	17101.9		171.0	OUTSIDE SHOULDER BRIDGE EXCEPTION TO HWY V EXIT
99.826	106.172	WBL	33506.9	335.1		INSIDE SHOULDER BRIDGE EXCEPTION TO EOP
103.237	103.520	WBL	1494.2		14.9	OUTSIDE SHOULDER HWY V EXIT TO HWY V ENTRANCE
103.679	106.172	WBL	13163.0		131.6	OUTSIDE SHOULDER HWY V ENTRANCE TO EOP
			SUBTOTAL	876	858	
			PAY TOTAL	1740		

SUMMARY OF QUANTITIES
SHEET 3 OF 9

STATE OF MISSOURI
JASON S. DOHRMANN
PE-2004017159
PROFESSIONAL ENGINEER

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

DATE PREPARED
9/22/2021

ROUTE	STATE
I-44	MO

DISTRICT	SHEET NO.
CD	3

COUNTY
PHELPS

JOB NO.
J5I3572

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)

HR GREEN, INC.
16020 SWINGLEY RIDGE ROAD,
SUITE 205
ST. LOUIS, MISSOURI 63017
PHONE: (636) 519.0990
CORPORATE LICENSE #2002006608

HRGreen

ALTERNATE PAVEMENT B - CONCRETE - EB LANES

LOG MILE	LOG MILE	LOCATION	LENGTH FT	AVERAGE WIDTH FT	AREA SF	CONCRETE PAVEMENT 11" NON-REINF SY	FURNISH ROCK BASE SY	PLACING ROCK BASE SY	REMARKS
187.120	189.458	EBL	12344.6	42	518473	57608	57608	57608	BOP MAINLINE TO GORE AT HWY V (INCL. FULL DEPTH SHLDRS)
189.458	189.505	EBL	248.2	VAR	11918	1324	1324	1324	DECEL TAPER TO GORE AT HWY V
189.505	189.592	EBL	459.4	VAR	34735	3859	3859	3859	MAINLINE GORE TO GORE EXIT AT HWY V
189.592	189.922	EBL	1742.4	42	73181	8131	8131	8131	MAINLINE FROM EXIT TO ENTRANCE GORES AT HWY V
189.922	190.060	EBL	728.6	VAR	38722	4302	4302	4302	ENTRANCE GORE AREA AT RTE. HWY V
190.060	190.117	EBL	301.0	VAR	14402	1600	1600	1600	ACCEL TAPER FROM HWY V
190.117	193.310	EBL	16859.0	42	708078	78675	78675	78675	MAINLINE TO BRIDGE EXCEPTION
193.320	195.320	EBL	10560.0	42	443520	49280	49280	49280	MAINLINE BRIDGE EXCEPTION TO EOP
189.592	0.019	EBL	64.4	32	2061	229	229	229	HWY V EXIT RAMP
0.170	189.922	EBL	20.8	32	666	74	74	74	HWY V ENTRANCE RAMP
					SUBTOTAL	205082	205082	205082	
					PAY TOTAL	205090	205090	205090	

NOTE: PAVEMENT EDGE TREATMENT SHALL BE INCIDENTAL TO ALTERNATE PAVEMENT.

ALTERNATE TEMPORARY SHOULDER D - CONCRETE

LOG MILE	LOG MILE	LOCATION	LENGTH FT	AVERAGE WIDTH FT	AREA SF	CONCRETE PAVEMENT 8" NON-REINF SY	4-INCH AGGREGATE BASE SY	REMARKS
97.774	99.820	WBL	10802.9	10	108029	12003	12003	OUTSIDE SHOULDER BOP TO BRIDGE EXCEPTION
97.764	99.820	WBL	10855.7	7	75990	8443	8443	INSIDE SHOULDER BOP TO BRIDGE EXCEPTION
99.826	103.065	WBL	17101.9	10	171019	19002	19002	OUTSIDE SHOULDER BRIDGE EXCEPTION TO HWY V EXIT
99.826	106.172	WBL	33506.9	7	234548	26061	26061	INSIDE SHOULDER BRIDGE EXCEPTION TO EOP
103.237	103.520	WBL	1494.2	10	14942	1660	1660	OUTSIDE SHOULDER HWY V EXIT TO HWY V ENTRANCE
103.679	106.172	WBL	13163.0	10	131630	14626	14626	OUTSIDE SHOULDER HWY V ENTRANCE TO EOP
187.008	187.141	MEDIAN (EB LOG)	700.0	VAR	7735	859	859	TEMPORARY CROSSOVER FOR MOT
195.369	195.506	MEDIAN (EB LOG)	725.0	VAR	6854	762	762	TEMPORARY CROSSOVER FOR MOT
97.581	97.647	WBL	350.0	8	2800	311	311	OUTSIDE SHOULDER TO RTE 68/8 ENTR GORE
					SUBTOTAL	83727	83727	
					PAY TOTAL	83730	83730	

ALTERNATE SHOULDER RUMBLE STRIPS D - CONCRETE

LOG MILE	LOG MILE	LOCATION	LENGTH FT	PORTLAND CEMENT CONCRETE RUMBLE STRIP		REMARKS
				INSIDE SHOULDER STA	OUTSIDE SHOULDER STA	
187.120	189.458	EBL	12344.6	123.4	123.4	BOP MAINLINE TO GORE AT HWY V (INCL. FULL DEPTH SHLDRS)
189.458	189.505	EBL	248.2	2.5	2.5	DECEL TAPER TO GORE AT HWY V
189.505	189.592	EBL	459.4	4.6	4.6	MAINLINE GORE TO GORE EXIT AT HWY V
189.592	189.922	EBL	1742.4	17.4	17.4	MAINLINE FROM EXIT TO ENTRANCE GORES AT HWY V
189.922	190.060	EBL	728.6	7.3	7.3	ENTRANCE GORE AREA AT RTE. HWY V
190.060	190.117	EBL	301.0	3.0	3.0	ACCEL TAPER FROM HWY V
190.117	193.310	EBL	16859.0	168.6	168.6	MAINLINE TO BRIDGE EXCEPTION
193.320	195.320	EBL	10560.0	105.6	105.6	MAINLINE BRIDGE EXCEPTION TO EOP
97.774	99.820	WBL	10802.9		108.0	OUTSIDE SHOULDER BOP TO BRIDGE EXCEPTION
97.764	99.820	WBL	10855.7	108.6		INSIDE SHOULDER BOP TO BRIDGE EXCEPTION
99.826	103.065	WBL	17101.9		171.0	OUTSIDE SHOULDER BRIDGE EXCEPTION TO HWY V EXIT
99.826	106.172	WBL	33506.9	335.1		INSIDE SHOULDER BRIDGE EXCEPTION TO EOP
103.237	103.520	WBL	1494.2		14.9	OUTSIDE SHOULDER HWY V EXIT TO HWY V ENTRANCE
103.679	106.172	WBL	13163.0		131.6	OUTSIDE SHOULDER HWY V ENTRANCE TO EOP
			SUBTOTAL	876	858	
			PAY TOTAL	1740		

SUMMARY OF QUANTITIES
SHEET 4 OF 9

PROFESSIONAL ENGINEER STATE OF MISSOURI
JASON S. DOHRMANN
PE-2004017159
THIS SHEET HAS BEEN SIGNED, SEALED, AND DATED ELECTRONICALLY.

DATE PREPARED: 9/22/2021
ROUTE: I-44 | STATE: MO
DISTRICT: CD | SHEET NO.: 3
COUNTY: PHELPS
JOB NO.: J5I3572
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)

HR GREEN, INC.
16020 SWINGLEY RIDGE ROAD.
SUITE 205
ST. LOUIS, MISSOURI 63017
PHONE: (636) 519.0990
CORPORATE LICENSE #2002006608
HRGreen®

3- OR 4- STRAND HIGH TENSION CABLE BARRIER - EB LANES

LOG MILE	LOG MILE	LOCATION	LENGTH FT	AVERAGE WIDTH FT	AREA SF	THICKNESS (IN)	HIGH TENSION GUARD CABLE (LF)	HTGC ANCHOR ASSEMBLY (EA)	VEGETATIVE BARRIER PAVEMENT 3 IN. DEPTH (SY)	REMARKS
186.962	188.727	EBL	9319.2	1.5	13979	3	9319	2	1,553.22	
188.739	191.321	EBL	13633.0	1.5	20450	3	13633	2	2,272.22	
189.730	189.760	EBL	158.4	4.0	634	3			70.44	AREA BTWN CABLE BARRIER AND BULLNOSE
191.350	192.676	EBL	7001.3	1.5	10502	3	7001	2	1,166.89	
193.320	193.560	EBL	1267.2	1.5	1901	3	1267	2	211.22	
					SUBTOTAL		31220	8	5274	
					SUBTOTAL (2)		13997	6	3888	(2) SUBTOTAL FROM WBL GUARDCABLE TABLE
					PAY TOTAL		45217	14	9162	

3- OR 4- STRAND HIGH TENSION CABLE BARRIER - WB LANES

LOG MILE	LOG MILE	LOCATION	LENGTH FT	AVERAGE WIDTH FT	AREA SF	THICKNESS (IN)	HIGH TENSION GUARD CABLE (LF)	HTGC ANCHOR ASSEMBLY (EA)	VEGETATIVE BARRIER PAVEMENT 3 IN. DEPTH (SY)	REMARKS
97.556	99.586	WBL	10718.4	2.5	26796	3	10718	2	2,977.33	
99.826	100.002	WBL	929.3	2.5	2323	3	929	2	258.11	
100.016	100.461	WBL	2349.6	2.5	5874	3	2350	2	652.67	
					SUBTOTAL		13997	6	3888	
					PAY TOTAL		(2)	(2)	(2)	(2) SEE EBL GUARDCABLE TABLE FOR PAY TOTAL

MGS GUARDRAIL - EB LANES

LOG MILE	LOG MILE	LOCATION	DISTANCE (FT)	MGS GUARDRAIL (LF)	TYPE A CRASH WORTHY (MASH) (EA)	MGS END ANCHOR (EA)	SHAPING SLOPES CL III 100 FT	REMARKS
190.683	190.800	EB-RT	619.5	555	1	1	0.8	
191.971	192.088	EB-RT	615.4	550	1	1	0.8	
192.793	193.047	EB-RT	1339.5	1275	1	1	0.8	
193.438	193.648	EB-RT	1109.5	1045	1	1	0.8	
194.307	194.369	EB-RT	329.5	265	1	1	0.8	
			SUBTOTAL	3690	5	5	4	LOGS APPROX. - VERIFY LOCATION
			PAY TOTAL	3690	5	5	4	

SUMMARY OF QUANTITIES
SHEET 5 OF 9

ANDREA J. SCHUMANN
PE-2018021250
STATE OF MISSOURI
PROFESSIONAL ENGINEER

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

DATE PREPARED
10/5/2021

ROUTE I-44 | STATE MO
DISTRICT CD | SHEET NO. 3
COUNTY PHELPS
JOB NO. J5I3572
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)

HR GREEN, INC.
16020 SWINGLEY RIDGE ROAD.
SUITE 205
ST. LOUIS, MISSOURI 63017
PHONE: (636) 519.0990
CORPORATE LICENSE #2002006608
HRGreen®

ROCK LINING FOR CULVERT OUTLETS

SHEET NO	ROADWAY	STA	LOCATION	AREA SF	ROCK LINING CY	REMARKS
15	LOCATION E	56+57.2	LT	84	3.1	
15	LOCATION E	58+22.9	LT	48	1.8	
			SUBTOTAL		4.9	
			PAY TOTAL		5	

ROCK DITCH LINER

SHEET NO	ROADWAY	STA	STA	LOCATION	AREA SF	FURNISH TYPE 1 ROCK DITCH LINER CY	PLACING TYPE 1 ROCK DITCH LINER CY	REMARKS
15	LOCATION E	56+25.0	58+75.0	LT	2156	53.2	53.2	8" THICK
15	LOCATION E	63+15.2	63+66.1	LT	945	23.3	23.3	8" THICK
				SUBTOTAL		76.5	76.5	
				PAY TOTAL		77	77	

PERMANENT PAVEMENT MARKINGS - EB LANES

LOG MILE	LOG MILE	LOCATION	LENGTH FT	HIGH BUILD WATERBORNE PAVEMENT MARKING WITH TYPE L BEADS				REMARKS
				6" INTER. WHITE LF	6" SOLID WHITE LF	6" SOLID YELLOW LF	12" WHITE GORE LINE LF	
187.120	189.458	EBL	12344.6	3086	12345	12345		BOP MAINLINE TO TAPER
189.458	189.505	EBL	248.2	62	248	248		DECEL TAPER TO GORE AT HWY V
189.505	189.592	EBL	459.4	115	459	459	310	EXIT GORE AREA AT HWY V
189.592	189.922	EBL	1742.4	436	1742	1742		MAINLINE FROM EXIT TO ENTRANCE GORES AT HWY V
189.922	190.060	EBL	728.6	182	729	729	173	ENTRANCE GORE AREA AT RTE. HWY V
190.060	190.117	EBL	301.0	75	301	301		ACCEL TAPER FROM HWY V
190.117	195.320	EBL	27471.8	6868	27472	27472		MAINLINE TO TO EOP
189.592	0.019	EBL	64.4		64			HWY V EXIT RAMP
0.170	189.922	EBL	20.8		21			HWY V ENTRANCE RAMP
			SUBTOTAL	10824	43381	43296	483	
				6" WHITE		6" YELLOW	12" WHITE	
			PAY TOTAL	54210		43300	490	

SUMMARY OF QUANTITIES
SHEET 6 OF 9

JASON S. DOHRMANN
PE-2004017159
STATE OF MISSOURI
PROFESSIONAL ENGINEER

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

DATE PREPARED
9/22/2021

ROUTE	STATE
I-44	MO
DISTRICT	SHEET NO.
CD	3

COUNTY
PHELPS

JOB NO.
J5I3572

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

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

DESCRIPTION	DATE

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

HR GREEN, INC.
16020 SWINGLEY RIDGE ROAD,
SUITE 205
ST. LOUIS, MISSOURI 63017
PHONE: (636) 519.0990
CORPORATE LICENSE #2002006608

DRAINAGE STRUCTURES

SHEET NO	ROADWAY	STA	LOC	TOP OF "D" ELEV	FLOW LINE ELEV	ACTUAL DEPTH FT	STR. NO.	PRECAST CONCRETE MANHOLE 48" LF	PRECAST CONCRETE DROP INLET 5' X 3' LF	CLASS 3 EXCAVATION IN ROCK CY	REMARKS
55	LOCATION E	57+64.47	LT	1139.95	1132.88	7.07	51-1	7.1		7.0	1-18" OPENING
55	LOCATION E	63+22.00	LT	1115.04	1111.33	3.71	52-1		4.0	4.0	TYPE E OPEN ON 2 SIDES, 1-18" OPENING
55	LOCATION E	63+59.00	LT	1114.46	1110.90	3.56	52-2		4.0	3.0	TYPE E OPEN ON 2 SIDES, 1-18" OPENING
							SUBTOTAL	7.1	8.0	14.0	
							SUBTOTAL (1)			41.0	(1) SUBTOTAL FROM PIPES TABLE
							PAY TOTAL	7	8	55	

DRAINAGE STRUCTURE LIDS

SHEET NO	ROADWAY	STA	LOC	STR. NO.	TYPE 2 MANHOLE FRAME & COVER EA	REMARKS
55	LOCATION E	57+37	LT	51-1	1	
				SUBTOTAL	1	
				PAY TOTAL	1	

4'X3' CONCRETE SINGLE BOX CULVERT

SHEET NO	ROADWAY	STA	STA	LOCATION	STR. NO.	STR. NO.	CLASS B-1 CONCRETE (CULVERTS) CY	REINFORCING STEEL (CULVERTS) LB	REMARKS
55	LOCATION E	63+56.2	63+31.4	LT	53-2	53-1	15.69	2118	
						SUBTOTAL	15.69	2118	
						PAY TOTAL	15.7	2118	

DRAINAGE PIPES

SHEET NO	ROADWAY	FROM STR.	TO STR.	STATION	18" GROUP A PIPE LF	24" GROUP A PIPE LF	15" GROUP C PIPE LF	TYPE A PIPE COLLAR EA	TYPE C PIPE COLLAR EA	18" GROUP A FLARED END SECTION EA	24" GROUP A FLARED END SECTION EA	15" SAFETY SLOPE END SECTION EA	24" SAFETY SLOPE END SECTION EA	CLASS 3 EXCAVATION IN ROCK CY	REMARKS
55	LOCATION E	EXIST.	50-1	56+57.2		7		1			1			3	1-18" OPENING
55	LOCATION E	51-1	51-2	57+64.5	43					1				5	TYPE E OPEN ON 2 SIDES, 1-18" OPENING
55	LOCATION E	53-1	53-2	63+31.4					2					30	TYPE E OPEN ON 2 SIDES, 1-18" OPENING
55	LOCATION E	52-1	BOX	63+22.0	10									2	
55	LOCATION E	52-2	BOX	63+59.0	12									1	
8	EBL			190.540		6							1		REM OF EX CONC HEADWALL AND PIPE INCL CL 3 EXCAVATION
10	EBL			193.130		6							1		REM OF EX CONC HEADWALL AND PIPE INCL CL 3 EXCAVATION
20 / 24	WEST CROSSOVER						280					2			TEMPORARY PIPE UNDER CROSSOVER PAVEMENT
23 / 27	EAST CROSSOVER						360					2			TEMPORARY PIPE UNDER CROSSOVER PAVEMENT
				SUBTOTAL	65	19	640	1	2	1	1	4	2	41	
				PAY TOTAL	65	19	640	1	2	1	1	4	2	(1)	(1) SEE DRAINAGE STRUCTURES TABLE FOR PAY TOTAL

SUMMARY OF QUANTITIES
SHEET 7 OF 9

STATE OF MISSOURI
JASON S. DOHRMANN
PE-2004017159
PROFESSIONAL ENGINEER

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

DATE PREPARED 9/30/2021

ROUTE I-44 | STATE MO

DISTRICT CD | SHEET NO. 3

COUNTY PHELPS

JOB NO. J5I3572

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)

HR GREEN, INC.
16020 SWINGLEY RIDGE ROAD.
SUITE 205
ST. LOUIS, MISSOURI 63017
PHONE: (636) 519.0990
CORPORATE LICENSE #2002006608

HRGreen®

TEMPORARY PAVEMENT MARKINGS

LOG MILE	LOG MILE	LOCATION	LENGTH FT	STANDARD WATERBORNE PAVEMENT MARKING WITH TYPE P BEADS 4" INTER. WHITE LF	4" SOLID WHITE LF	4" SOLID YELLOW LF	REMARKS
PHASE 3							
186.836	187.007	EBL	902.9		903		EB LANE CENTER LINE LANE SHIFT
186.961	187.141	EBL	950.4		950	950	WEST CROSSOVER LEFT AND RIGHT EDGE LINES
186.961	195.487	EBL	45017.3		45017	45017	EB LANE LEFT AND RIGHT EDGE LINES
195.396	195.487	EBL	480.5		481	481	EAST CROSSOVER LEFT AND RIGHT EDGE LINES
195.487	195.548	EBL	322.1		322		EB LANE CENTER LINE LANE SHIFT
97.610	97.880	WBL	1425.6		1426	1426	WB LANES LEFT AND RIGHT EDGE LINES
97.610	97.880	WBL	1425.6	356			WB LANES CENTER LINE LANE SHIFT
97.880	103.100	WBL	27561.6			55123	DOUBLE SOLID YELLOW SEPARATING EB AND WB LANES
97.880	106.224	WBL	44056.3	11014			WB LANE CENTER LINE
97.880	106.224	WBL	44056.3		44056		WB LANE RIGHT EDGE LINE
103.100	106.224	WBL	16494.7			16495	WB LANE LEFT EDGE LINE
97.880	106.224	WBL	44056.3		44056		EB LANE RIGHT EDGE LINE
103.100	106.224	WBL	16494.7			16495	EB LANE LEFT EDGE LINE
PHASE 4							
186.836	187.007	EBL	902.9		UIP FROM PHASE 3		EB LANE CENTER LINE LANE SHIFT
186.961	187.141	EBL	950.4		UIP FROM PHASE 3	UIP FROM PHASE 3	WEST CROSSOVER LEFT AND RIGHT EDGE LINES
186.885	186.961	EBL	401.3		401	401	EB LANE SHIFT LEFT AND RIGHT EDGE LINES
186.961	195.402	EBL	44568.5		44569	44569	EB LANE LEFT AND RIGHT EDGE LINES
195.396	195.487	EBL	480.5		UIP FROM PHASE 3	UIP FROM PHASE 3	EAST CROSSOVER LEFT AND RIGHT EDGE LINES
195.402	195.487	EBL	448.8		449	449	EB LANE SHIFT LEFT AND RIGHT EDGE LINES
195.487	195.548	EBL	322.1		322		EB LANE CENTER LINE LANE SHIFT
97.610	97.880	WBL	1425.6		UIP FROM PHASE 3	UIP FROM PHASE 3	WB LANES LEFT AND RIGHT EDGE LINES
97.610	97.880	WBL	1425.6	UIP FROM PHASE 3		UIP FROM PHASE 3	WB LANES CENTER LINE LANE SHIFT
97.880	103.100	WBL	27561.6		UIP FROM PHASE 3	UIP FROM PHASE 3	DOUBLE SOLID YELLOW SEPARATING EB AND WB LANES
97.880	106.224	WBL	44056.3	UIP FROM PHASE 3		UIP FROM PHASE 3	WB LANE CENTER LINE
97.880	106.224	WBL	44056.3		UIP FROM PHASE 3	UIP FROM PHASE 3	WB LANE RIGHT EDGE LINE
103.100	106.224	WBL	16494.7		UIP FROM PHASE 3	UIP FROM PHASE 3	WB LANE LEFT EDGE LINE
97.880	106.224	WBL	44056.3		UIP FROM PHASE 3	UIP FROM PHASE 3	EB LANE RIGHT EDGE LINE
103.100	106.224	WBL	16494.7		UIP FROM PHASE 3	UIP FROM PHASE 3	EB LANE LEFT EDGE LINE
			SUBTOTAL	11370	182952	181406	
					4" WHITE	4" YELLOW	
			PAY TOTAL		194400	181500	

EROSION CONTROL

EROSION CONTROL SHEET NO	LOG MILE	LOCATION	INLET CHECK (EA)	REMARKS
1	187.464	EBL-LT	1	
1	187.820	EBL-LT	1	
1	188.010	EBL-LT	1	
2	188.411	EBL-LT	1	
2	188.589	EBL-LT	1	
2	188.972	EBL-LT	1	
3	189.364	EBL-LT	1	
3	189.405	EBL-LT	1	
4	190.054	EBL-LT	1	
5	190.470	EBL-LT	1	
5	190.528	EBL-LT	1	
5	190.810	EBL-LT	1	
5	191.093	EBL-LT	1	
5	191.153	EBL-LT	1	
6	191.282	EBL-LT	1	
6	191.337	EBL-LT	1	
6	191.494	EBL-LT	1	
6	191.590	EBL-LT	1	
6	191.639	EBL-LT	1	
6	192.003	EBL-LT	1	
6	192.220	EBL-LT	1	
7	192.334	EBL-LT	1	
7	192.782	EBL-LT	1	
7	192.808	EBL-LT	1	
7	193.126	EBL-LT	1	
7	193.237	EBL-LT	1	
8	194.137	EBL-LT	1	
9	194.570	EBL-LT	1	
9	194.812	EBL-LT	1	
9	194.949	EBL-LT	1	
9	195.078	EBL-LT	1	
9	195.335	EBL-LT	1	
		SUBTOTAL	32	
		PAY TOTAL	32	

EROSION CONTROL (CONTINUED)

SHEET NO	ROADWAY	STA.	STA.	LOCATION	SEDIMENT TRAP ROCK CY	SEDIMENT TRAP EXCAVATION CY	ROCK DITCH CHECK LF	SEDIMENT REMOVAL CY	REMARKS
17	LOCATION E	56+25	64+75	LT	4	3	304	24	
	I-44			MEDIAN			3600		PLACE ROCK DITCH CHECKS EVERY 300 FEET IN CENTER MEDIAN
				SUBTOTAL	4	3	3904	24	
				PAY TOTAL	4	3	3904	24	

SUMMARY OF QUANTITIES
SHEET 8 OF 9

STATE OF MISSOURI
JASON S. DOHRMANN
PE-2004017159
PROFESSIONAL ENGINEER

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

DATE PREPARED: 9/22/2021
ROUTE: I-44 | STATE: MO
DISTRICT: CD | SHEET NO.: 3
COUNTY: PHELPS
JOB NO.: J5I3572
CONTRACT ID.:
PROJECT NO.:
BRIDGE NO.:

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DESCRIPTION | DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
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16020 SWINGLEY RIDGE ROAD,
SUITE 205
ST. LOUIS, MISSOURI 63017
PHONE: (636) 519.0990
CORPORATE LICENSE #2002006608
HRGreen

EFFECTIVE: 04-01-2021

SIGN	SIZE IN.	AREA SQ.FT.	QTY EACH	TOTAL AREA SQ.FT.	QTY RELOC EACH	TOTAL RELOC SQ.FT.	SIGN NUM.	DESCRIPTION
WARNING SIGNS								
W01-1L	48X48	16.00						TURN (SYMBOL LEFT ARROW)
W01-1R	48X48	16.00						TURN (SYMBOL RIGHT ARROW)
W01-2L	48X48	16.00	1	16.00			15L	CURVE (SYMBOL LEFT ARROW)
W01-2R	48X48	16.00	2	32.00			15R	CURVE (SYMBOL RIGHT ARROW)
W01-3L	48X48	16.00						REVERSE TURN (SYMBOL LEFT ARROW)
W01-3R	48X48	16.00						REVERSE TURN (SYMBOL RIGHT ARROW)
W01-4L	48X48	16.00						REVERSE CURVE (SYMBOL LEFT ARROW)
W01-4R	48X48	16.00						REVERSE CURVE (SYMBOL RIGHT ARROW)
W01-4bL	48X48	16.00						DOUBLE ARROW REVERSE CURVE (SYMBOL LT ARROWS)
W01-4bR	48X48	16.00						DOUBLE ARROW REVERSE CURVE (SYMBOL RT ARROWS)
W01-4cL	48X48	16.00						TRIPLE ARROW REVERSE CURVE (SYMBOL LT ARROWS)
W01-4cR	48X48	16.00						TRIPLE ARROW REVERSE CURVE (SYMBOL RT ARROWS)
W01-6	60X30	12.50	2	25.00			16	HORIZONTAL ARROW (SYMBOL)
W01-6a	72X36	18.00						HORIZ. ARROW (SYMBOL ON PERMANENT BARRICADE)
W01-7	60X30	12.50						DOUBLE HEAD HORIZONTAL ARROW (SYMBOL)
W01-7a	72X36	18.00						DOUBLE HEAD HORIZ. ARROW (SYMBOL ON PERM. BARR.)
W01-8	18X24	3.00						CHEVRON (SYMBOL)
W01-8a	30X36	7.50						CHEVRON (SYMBOL FOR DIVIDED HIGHWAYS)
W03-1	48X48	16.00						STOP AHEAD (SYMBOL)
W03-2	48X48	16.00						YIELD AHEAD (SYMBOL)
W03-3	48X48	16.00						SIGNAL AHEAD (SYMBOL)
W03-4	48X48	16.00	3	48.00			11	BE PREPARED TO STOP
W03-5	48X48	16.00						SPEED LIMIT AHEAD
W04-1L	48X48	16.00						MERGE (SYMBOL FROM LEFT)
W04-1R	48X48	16.00						MERGE (SYMBOL FROM RIGHT)
W04-1aL	48X48	16.00						MERGE (ARROW SYMBOL)
W04-1aR	48X48	16.00						MERGE (ARROW SYMBOL)
W05-1	48X48	16.00						ROAD/BRIDGE/RAMP NARROWS
W05-3	48X48	16.00						ONE LANE BRIDGE
W05-5	48X48	16.00						NARROW LANES
W06-1	48X48	16.00						DIVIDED HIGHWAY (SYMBOL)
W06-2	48X48	16.00						DIVIDED HIGHWAY END (SYMBOL)
W06-3	48X48	16.00						TWO WAY TRAFFIC (SYMBOL)
W07-3a	30X24	5.00	2	10.00			44A	NEXT 8.2 MILES (PLAQUE)
W08-1	48X48	16.00						BUMP
W08-2	48X48	16.00						DIP
W08-3	48X48	16.00						PAVEMENT ENDS
W08-4	48X48	16.00						SOFT SHOULDER
W08-5	48X48	16.00						SLIPPERY WHEN WET (SYMBOL)
W08-6	48X48	16.00						TRUCK CROSSING (WITH FLAGS)
W08-6c	48X48	16.00						TRUCK ENTRANCE
W08-7	36X36	9.00						LOOSE GRAVEL
W08-7a	36X36	9.00						FRESH OIL/LOOSE GRAVEL
W08-9	48X48	16.00						LOW SHOULDER
W08-11	48X48	16.00						UNEVEN LANES
W08-12	48X48	16.00						NO CENTER LINE
W08-15	48X48	16.00						GROOVED PAVEMENT
W08-15P	30X24	5.00						MOTORCYCLE (PLAQUE)
W08-17	48X48	16.00						SHOULDER DROP-OFF (SYMBOL)
W08-17P	30X24	5.00						SHOULDER DROP-OFF (PLAQUE)
W10-1	42RND.	9.62						RAILROAD CROSSING
W012-1	24X24	4.00						DOUBLE DOWN ARROW (SYMBOL)
W012-2	48X48	16.00						LOW CLEARANCE (SYMBOL)
W012-2X	24X18	3.00						LOW CLEARANCE (PLAQUE)
W012-2a	84X24	14.00						OVERHEAD LOW CLEARANCE (FEET AND INCHES)
W012-4	120X60	50.00						LOW CLEARANCE XX FT XX IN XX MILES AHEAD
W012-5	120X60	50.00						WIDTH RESTRICTION XX FT XX IN XX MILES AHEAD
W013-1	30X30	6.25	2	12.50			44b	ADVISORY SPEED (PLAQUE)
W016-2	30X24	5.00						XXX FEET (PLAQUE)
W016-3	30X24	5.00						X MILE (PLAQUE)
W020-1	48X48	16.00	5	80.00			2	ROAD/BRIDGE/RAMP WORK AHEAD
W020-2	48X48	16.00						DETOUR AHEAD
W020-3	48X48	16.00						ROAD CLOSED AHEAD
W020-4	48X48	16.00						ONE LANE ROAD AHEAD
W020-5	48X48	16.00						RIGHT/CENTER/LEFT LANE CLOSED AHEAD
W020-5a	48X48	16.00						2 RIGHT/CENTER/LEFT LANES CLOSED AHEAD
W020-6a	48X48	16.00						RIGHT/CENTER/LEFT LANE CLOSED
W020-7a	48X48	16.00						FLAGGER (SYMBOL, WITH FLAGS)
W021-2	36X36	9.00						FRESH OIL
W021-5	48X48	16.00						SHOULDER WORK AHEAD
W022-1	48X48	16.00						BLASTING ZONE AHEAD
W022-2	42X36	10.50						TURN OFF 2-WAY RADIO AND PHONE
W022-3	42X36	10.50						END BLASTING ZONE
G022-1	21X15	2.19						WET PAINT (ARROW PIVOTS)

SIGN	SIZE IN.	AREA SQ.FT.	QTY EACH	TOTAL SQ.FT.	QTY RELOC EACH	TOTAL RELOC SQ.FT.	SIGN NUM.	DESCRIPTION
GUIDE SIGNS								
E05-1	36X48	12.00	2	24.00			49	GORE EXIT
E05-2	48X36	12.00						EXIT OPEN
E05-2a	48X36	12.00						EXIT CLOSED
G020-1	60X24	10.00						ROAD WORK NEXT XX MILES
G020-2	48X24	8.00						END ROAD WORK
G020-4	36X18	4.50						PILOT CAR FOLLOW ME
G020-4a	42X30	8.75						PILOT CAR IN USE WAIT & FOLLOW
G020-4a	18X12	1.50						PILOT CAR IN USE WAIT & FOLLOW
G020-5aP	36X24	6.00	108	648.0			54	WORK ZONE (PLAQUE)
M04-8a	24X18	3.00						END DETOUR
M04-9L	48X36	12.00						DETOUR (LEFT ARROW)
M04-9R	48X36	12.00						DETOUR (RIGHT ARROW)
M04-9P	48X12	4.00						STREET NAME (PLAQUE)
M04-10L	48X18	6.00						DETOUR (ARROW LEFT)
M04-10R	48X18	6.00						DETOUR (ARROW RIGHT)
REGULATORY SIGNS								
R1-1	48X48	13.25						STOP
R1-2	48TRI.	6.93	3	20.79			13	YIELD
R1-2a	36X36	9.00						TO ONCOMING TRAFFIC (PLAQUE)
R1-3P	30X12	2.50						ALL WAY (PLAQUE)
R2-1	36X48	12.00	19	228.0			4b	SPEED LIMIT 50
R2-1	36X48	12.00	15	180.0			4c	SPEED LIMIT 60
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	48	576.0			46	DO NOT PASS
R4-2	36X48	12.00						PASS WITH CARE
R4-8a	36X48	12.00						KEEP LEFT (HORIZONTAL ARROW)
R4-7a	36X48	12.00						KEEP RIGHT (HORIZONTAL ARROW)
R5-1	30X30	6.25						DO NOT ENTER
R5-1a	36X24	6.00						WRONG WAY
R6-1L	54X18	6.75						ONE WAY ARROW (LEFT)
R6-1R	54X18	6.75						ONE WAY ARROW (RIGHT)
R6-2L	24X30	5.00						ONE WAY (LEFT)
R6-2R	24X30	5.00						ONE WAY (RIGHT)
R9-9	24X12	2.00						SIDEWALK CLOSED
R9-11L	24X18	3.00						SIDEWALK CLOSED AHEAD, (ARROW LEFT) CROSS HERE
R9-11R	24X18	3.00						SIDEWALK CLOSED AHEAD, (ARROW RIGHT) CROSS HERE
R10-6	24X36	6.00						STOP HERE ON RED (45° ARROW)
R11-2	48X30	10.00						ROAD CLOSED
R11-3a	60X30	12.50						ROAD CLOSED XX MILES AHEAD LOCAL TRAFFIC ONLY
R11-4	60X30	12.50						ROAD CLOSED TO THRU TRAFFIC
CONST-3A	60X48	20.00						FINE SIGN
CONST-3X	56X12	4.67						SPEEDING/PASSING (PLATE)
MISCELLANEOUS SIGNS								
CONST-5	48X36	12.00			*			POINT OF PRESENCE
CONST-5	96X48	32.00			*			POINT OF PRESENCE
CONST-7	48X24	8.00			*			RATE OUR WORK ZONE
CONST-7	72X36	18.00			*			RATE OUR WORK ZONE
CONST-8	48X36	12.00			*			WORK ZONE NO PHONE ZONE
SPECIAL1	48X48	16.00	20	320.0			S1	MOD W6-3, 2 DOWN, 1 UP ARROW
SPECIAL2	48X48	16.00	16	256.0			S2	MOD W6-3, 1 DOWN, 2 UP ARROW
R4-9	36X48	12.00	26	312.0			60	STAY IN LANE
W04-3L	48X48	16.00	2	32.00			61	ADDED LANE LEFT
SIGN 11	120X84	70.00	1	70.00			11	ROAD WORK NEXT 11 MILES
SIGN 12	144X96	96.00	1	96.00			12	ROAD WORK NEXT 11 MILES
SIGN 13	120X84	70.00	1	70.00			13	ROAD WORK NEXT 10 MILES
SIGN 14	144X96	96.00	1	96.00			14	ROAD WORK NEXT 10 MILES
SIGN 15	120X84	70.00	1	70.00			15	ROAD WORK NEXT 9 MILES
SIGN 16	144X96	96.00	1	96.00			16	ROAD WORK NEXT 9 MILES
SIGN 17	96X84	56.00	1	56.00			17	THRU TRAFFIC LEFT LANE
SIGN 18	120X84	70.00	1	70.00			18	TRUCKS / EXIT TRAFFIC CNTR LN
616-10.05 CONSTRUCTION SIGNS				TOTAL 3445				
616-10.10 RELOCATED SIGNS						TOTAL		

JOB NOTES: * ALREADY IN WORK ZONE FOR J5I3397

ITEM NUMBER	TOTAL QTY	DESCRIPTION
6122008		IMPACT ATTENUATOR 40 MPH (SAND BARRELS)
6122009		IMPACT ATTENUATOR 45 MPH (SAND BARRELS)
6122010		IMPACT ATTENUATOR 50 MPH (SAND BARRELS)
6122012		IMPACT ATTENUATOR 55 MPH (SAND BARRELS)
6122014		IMPACT ATTENUATOR 60 MPH (SAND BARRELS)
6122017		IMPACT ATTENUATOR 65 MPH (SAND BARRELS)
6122019	4	IMPACT ATTENUATOR 70 MPH (SAND BARRELS)
6122020	40	REPLACEMENT SAND BARREL
6122030	2	IMPACT ATTENUATOR (RELOCATION)
6123000A	4	TRUCK OR TRAILER MOUNTED ATTENUATOR (TMA)
6161008	2	ADVANCED WARNING RAIL SYSTEM
6161012		BUOYS (BOATS KEEP OUT)
6161013		BUOYS (NO WAKE)
6161014		SPECIAL SIGN ASSEMBLY (BOATS KEEP OUT)
6161025	200	CHANNELIZER (TRIM LINE)
6161030	2	TYPE III MOVEABLE BARRICADE
6161033	40	DIRECTION INDICATOR BARRICADE
6161040	4	FLASHING ARROW PANEL
6161047		TYPE III OBJECT MARKER
6161051		WARNING LIGHT, TYPE A
6161052		WARNING LIGHT, TYPE B
6161053		WARNING LIGHT, TYPE C
6161055		SEQUENTIAL FLASHING WARNING LIGHT
6161070	800	TUBULAR MARKER
6161095		RADAR SPEED ADVISORY SYSTEM
6161096		CHANGEABLE MESSAGE SIGN, COMMISSION FURNISHED/RETAINED
6161098A		CHANGEABLE MESSAGE SIGN W/O COMM. INTERFACE, CONTRACTOR FURNISHED/RETAINED
6161099		CHANGEABLE MESSAGE SIGN WITH COMM. INTERFACE, CONTRACTOR FURNISHED/RETAINED
6162000A		WORK ZONE TRAFFIC SIGNAL SYSTEM
6162002		TEMPORARY LONG-TERM RUMBLE STRIPS
6162004		TEMPORARY SHORT-TERM RUMBLE STRIPS
6173600D		TEMPORARY TRAFFIC BARRIER CONTRACTOR FURNISHED/RETAINED
6173602B		TEMPORARY TRAFFIC BARRIER CONTRACTOR FURNISHED/COMMISSION RETAINED
6173700B	61,021	TEMPORARY TRAFFIC BARRIER ANCHORED CONTRACTOR FURNISHED/RETAINED
6174000A		TEMP. TRAFFIC BARRIER HEIGHT TRANSITION
6175011B	44,616	RELOCATING TEMP TRAFFIC BARRIER ANCHORED
6176000B		TEMPORARY TRAFFIC BARRIER COMMISSION FURNISHED/RETAINED
6177000B		TEMP. TRAFFIC BARRIER HEIGHT TRANSITION COMMISSION FURNISHED/RETAINED
6208064A		TEMPORARY RAISED PAVEMENT MARKER
9029400		TEMPORARY TRAFFIC SIGNALS
9029401		TEMPORARY TRAFFIC SIGNALS AND LIGHTING
6129902	1	MISC. CRASH CUSHION

SUMMARY OF QUANTITIES
SHEET 9 OF 9

STATE OF MISSOURI
JASON S. DOHRMANN
PE-2004017159
PROFESSIONAL ENGINEER

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

DATE PREPARED 9/22/2021

ROUTE	STATE
I-44	MO

DISTRICT	SHEET NO.
CD	3

COUNTY: PHELPS

JOB NO.: J5I3572

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)

HR GREEN, INC.
16020 SWINGLEY RIDGE ROAD,
SUITE 205
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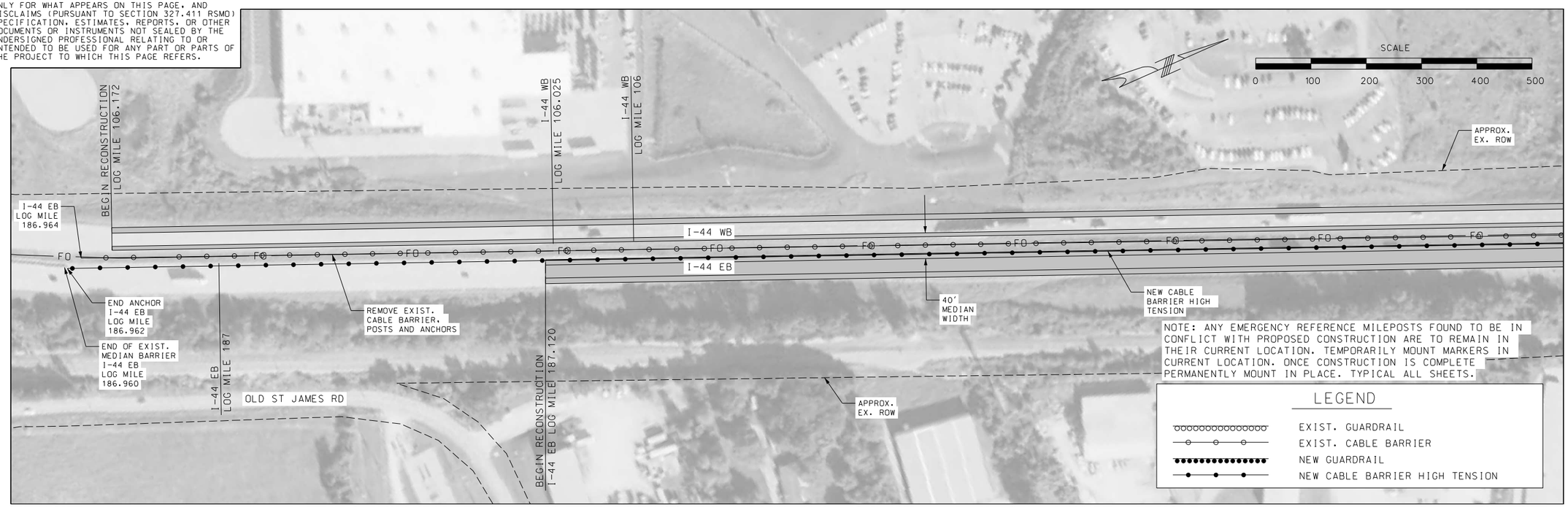

PLAN SHEET
SHEET 1 OF 10

STATE OF MISSOURI
JASON S. DOHRMANN
PE-2004017159
PROFESSIONAL ENGINEER

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

DATE PREPARED 9/22/2021

ROUTE	STATE
I-44	MO
DISTRICT	SHEET NO.
CD	4

COUNTY PHELPS
JOB NO. J5I3572
CONTRACT ID.
PROJECT NO.
BRIDGE NO.

DESCRIPTION	DATE

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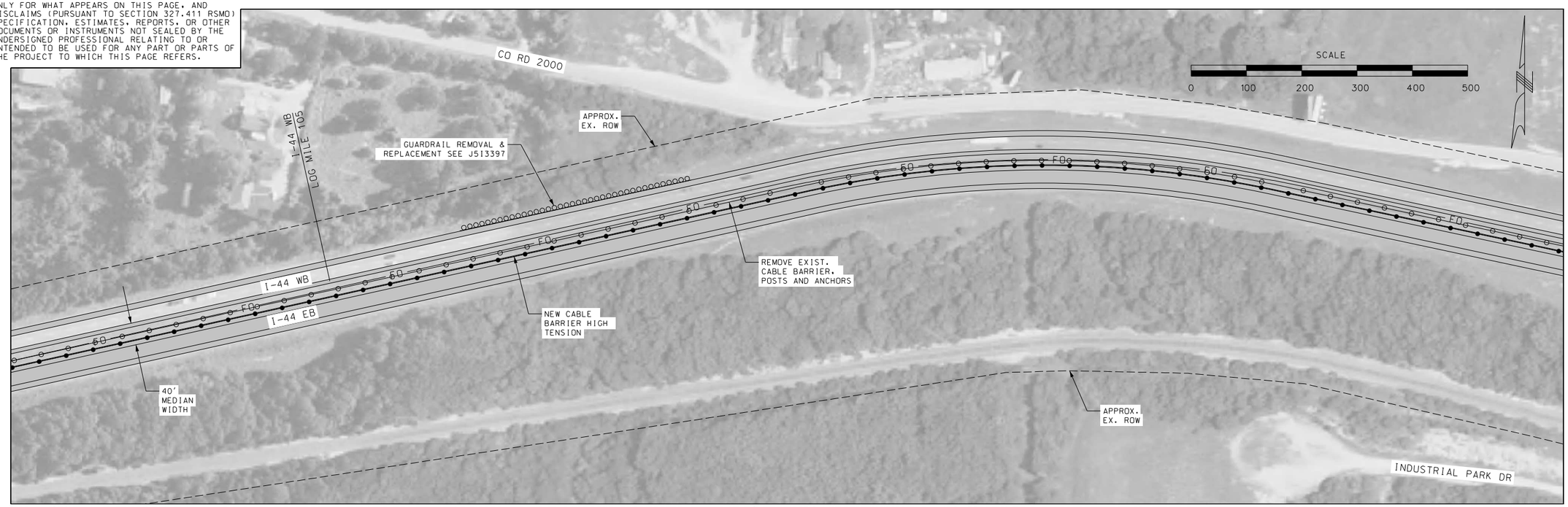

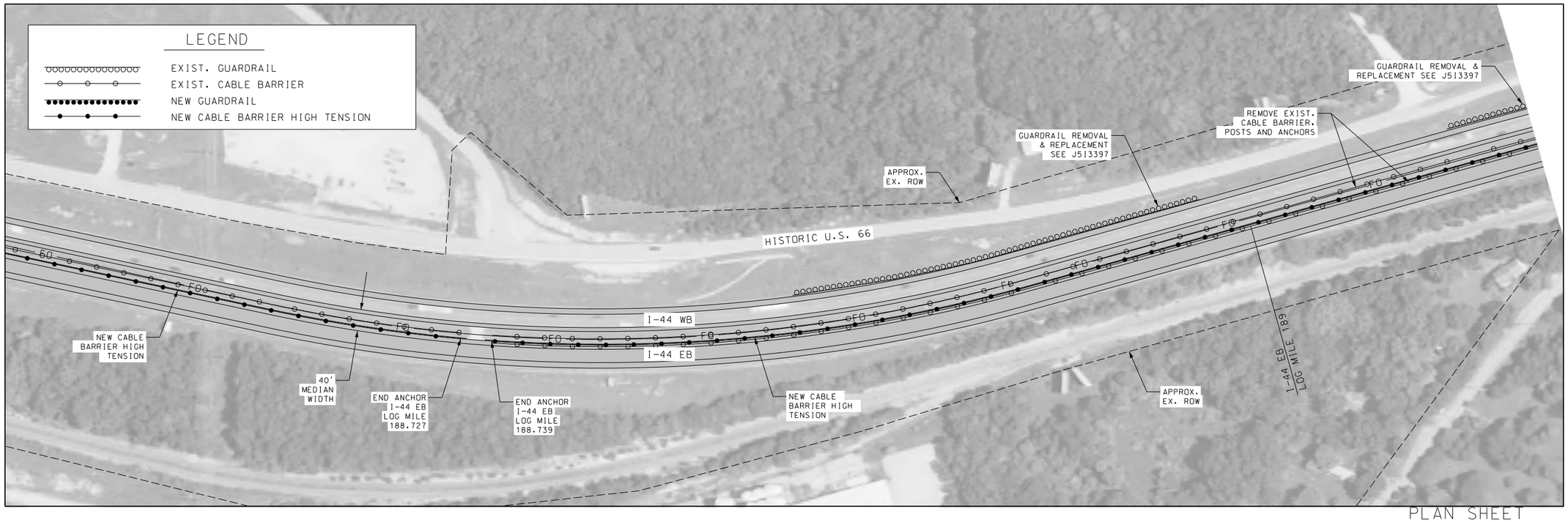

PLAN SHEET
SHEET 2 OF 10

STATE OF MISSOURI
JASON S. DOHRMANN
PE-2004017159
PROFESSIONAL ENGINEER

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

DATE PREPARED 9/22/2021
ROUTE I-44 | STATE MO
DISTRICT CD | SHEET NO. 5
COUNTY PHELPS
JOB NO. J513572
CONTRACT ID.
PROJECT NO.
BRIDGE NO.

DESCRIPTION | DATE

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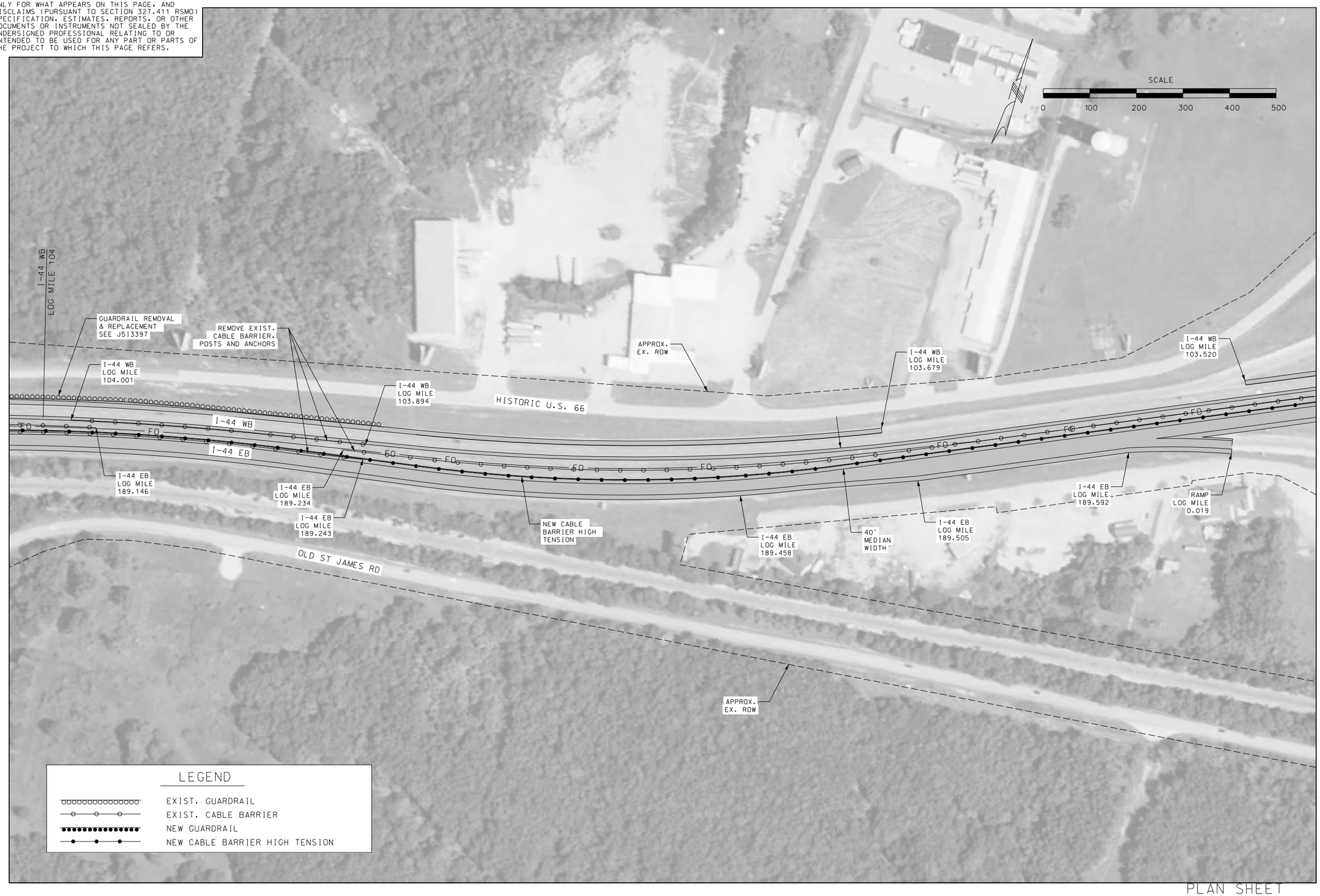

PLAN SHEET
SHEET 3 OF 10

STATE OF MISSOURI
JASON S. DOHRMANN
PE-2004017159
PROFESSIONAL ENGINEER

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

DATE PREPARED	
9/22/2021	
ROUTE	STATE
I-44	MO
DISTRICT	SHEET NO.
CD	6
COUNTY	
PHELPS	
JOB NO.	
J5I3572	
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	

DESCRIPTION	DATE

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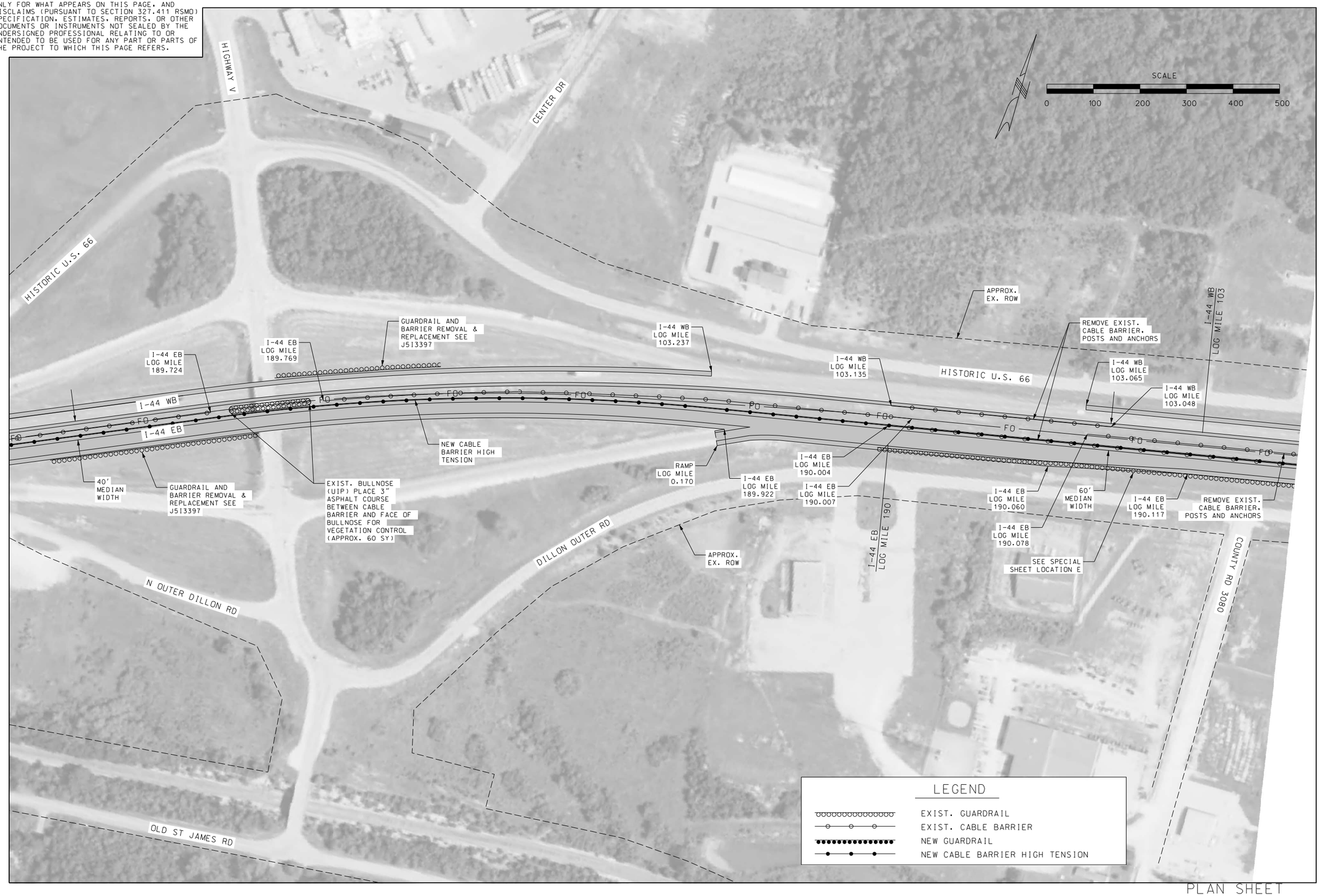

PLAN SHEET
SHEET 4 OF 10

STATE OF MISSOURI
PROFESSIONAL ENGINEER
JASON S. DOHRMANN
PE-2004017159

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

DATE PREPARED
9/22/2021

ROUTE	STATE
I-44	MO
DISTRICT	SHEET NO.
CD	7

COUNTY
PHELPS

JOB NO.
J5I3572

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DESCRIPTION	DATE

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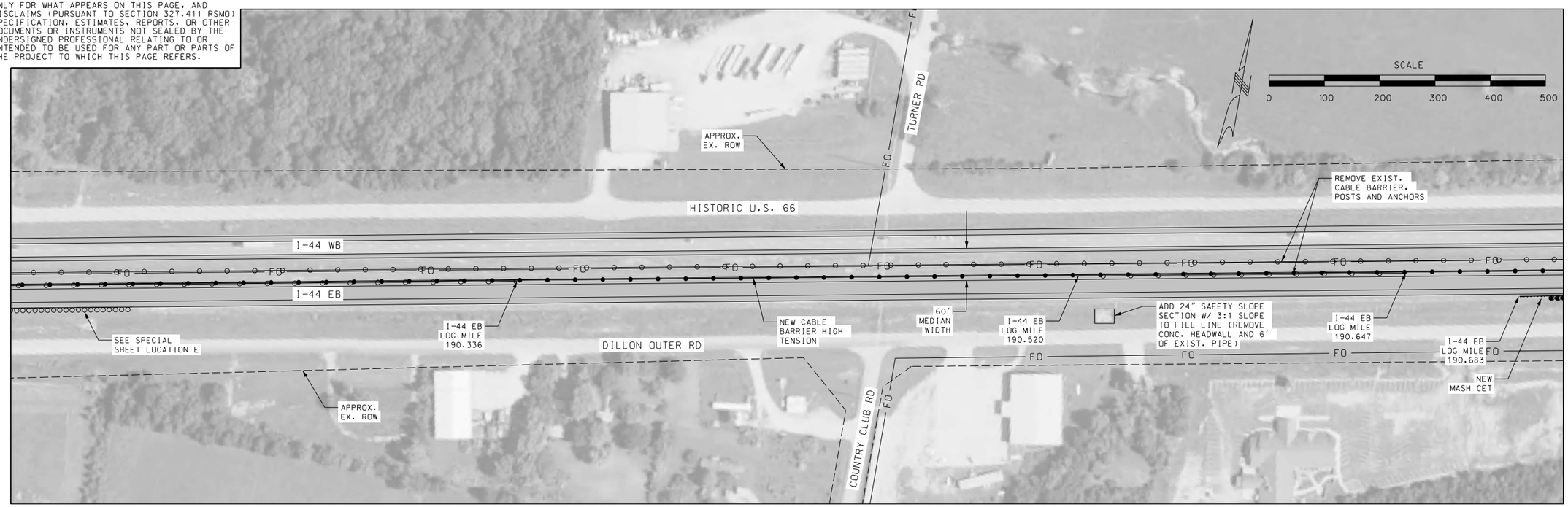

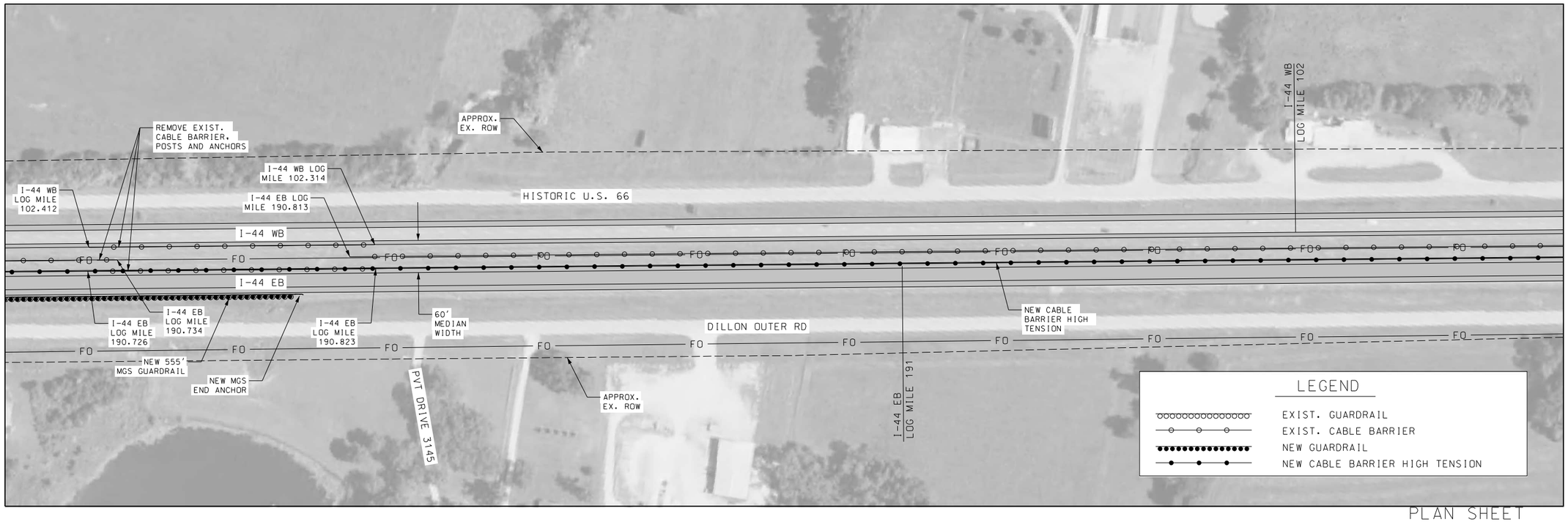

PLAN SHEET
SHEET 5 OF 10

JASON S. DOHRMANN
PE-2004017159
STATE OF MISSOURI
PROFESSIONAL ENGINEER

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

DATE PREPARED
9/22/2021

ROUTE	STATE
I-44	MO
DISTRICT	SHEET NO.
CD	8

COUNTY
PHELPS

JOB NO.
J5I3572

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DESCRIPTION	DATE

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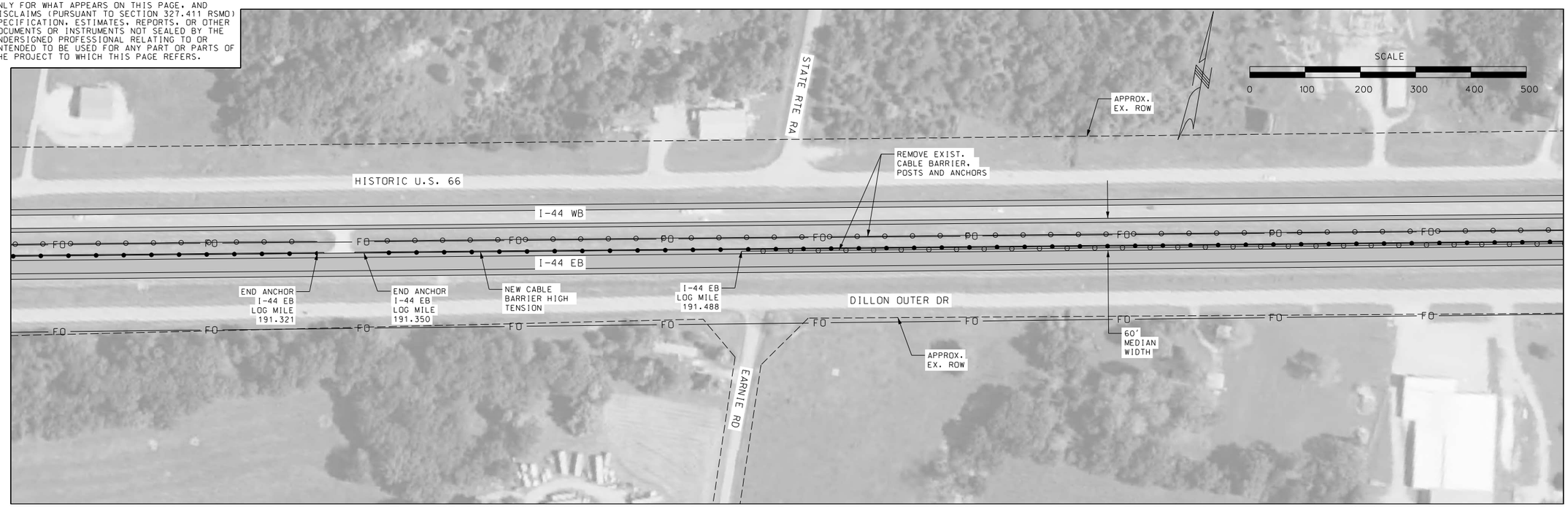

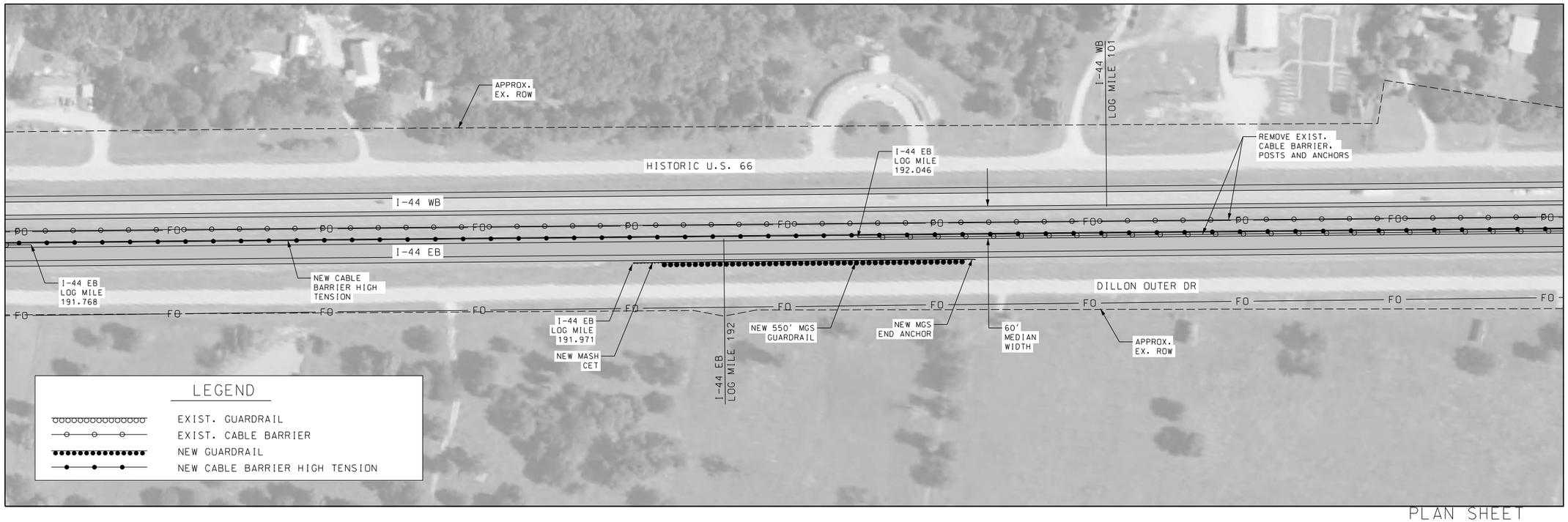

PLAN SHEET
SHEET 6 OF 10

STATE OF MISSOURI
JASON S. DOHRMANN
PE-2004017159
PROFESSIONAL ENGINEER

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

DATE PREPARED
9/22/2021

ROUTE	STATE
I-44	MO
DISTRICT	SHEET NO.
CD	9

COUNTY
PHELPS

JOB NO.
J5I3572

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

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DESCRIPTION	DATE

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JEFFERSON CITY, MO 65102
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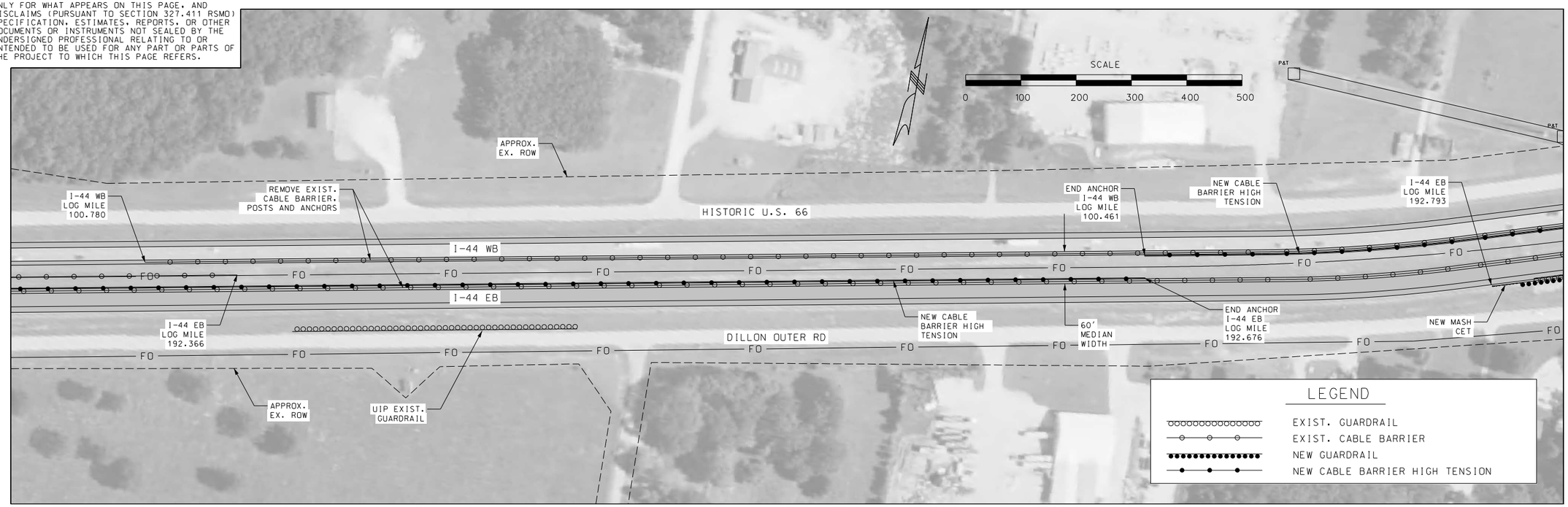

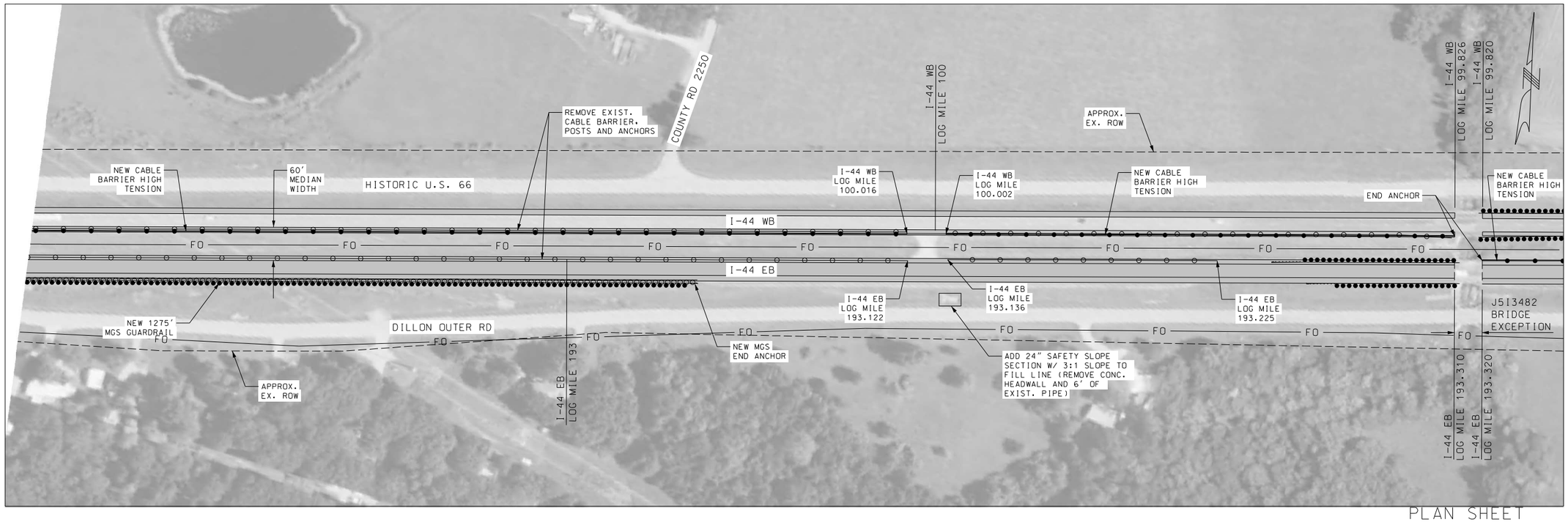

PLAN SHEET
SHEET 7 OF 10

STATE OF MISSOURI
JASON S. DOHRMANN
PE-2004017159
PROFESSIONAL ENGINEER

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

DATE PREPARED
9/22/2021

ROUTE	STATE
I-44	MO
DISTRICT	SHEET NO.
CD	10

COUNTY
PHELPS

JOB NO.
J5I3572

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DESCRIPTION	DATE

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105 WEST CAPITOL
JEFFERSON CITY, MO 65102
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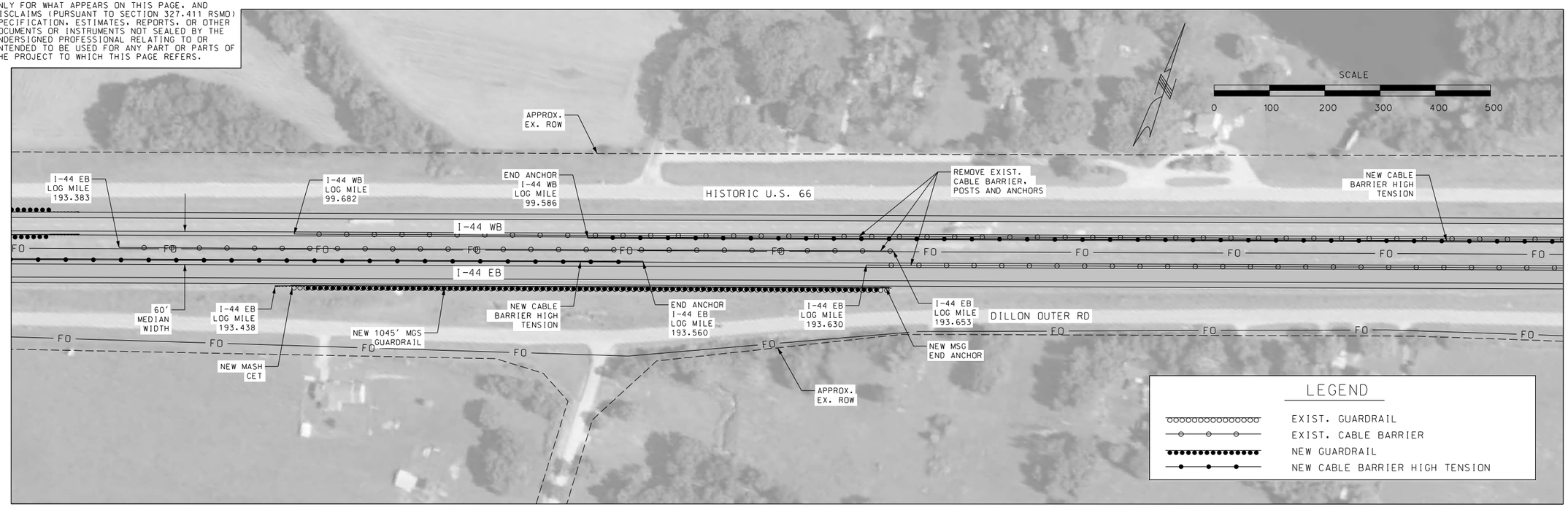

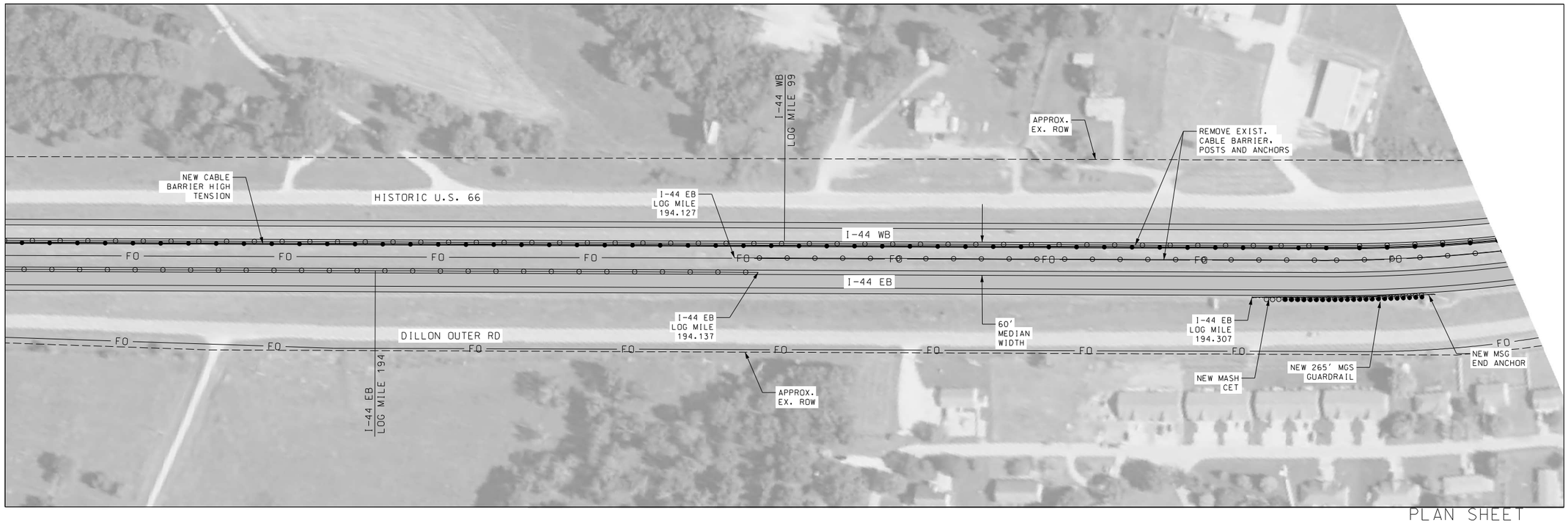

PLAN SHEET
SHEET 8 OF 10

STATE OF MISSOURI
JASON S. DOHRMANN
PE-2004017159
PROFESSIONAL ENGINEER

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DATE PREPARED 9/22/2021

ROUTE	STATE
I-44	MO
DISTRICT	SHEET NO.
CD	11

COUNTY: PHELPS
JOB NO.: J5I3572
CONTRACT ID.:
PROJECT NO.:
BRIDGE NO.:

DESCRIPTION	DATE

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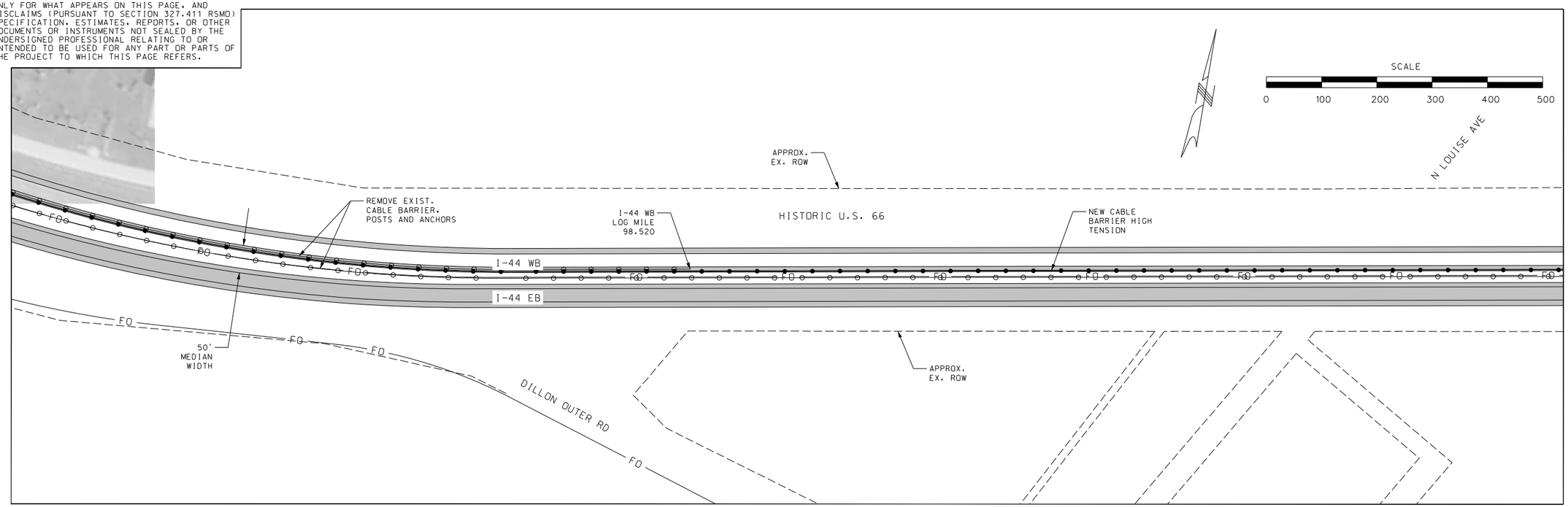

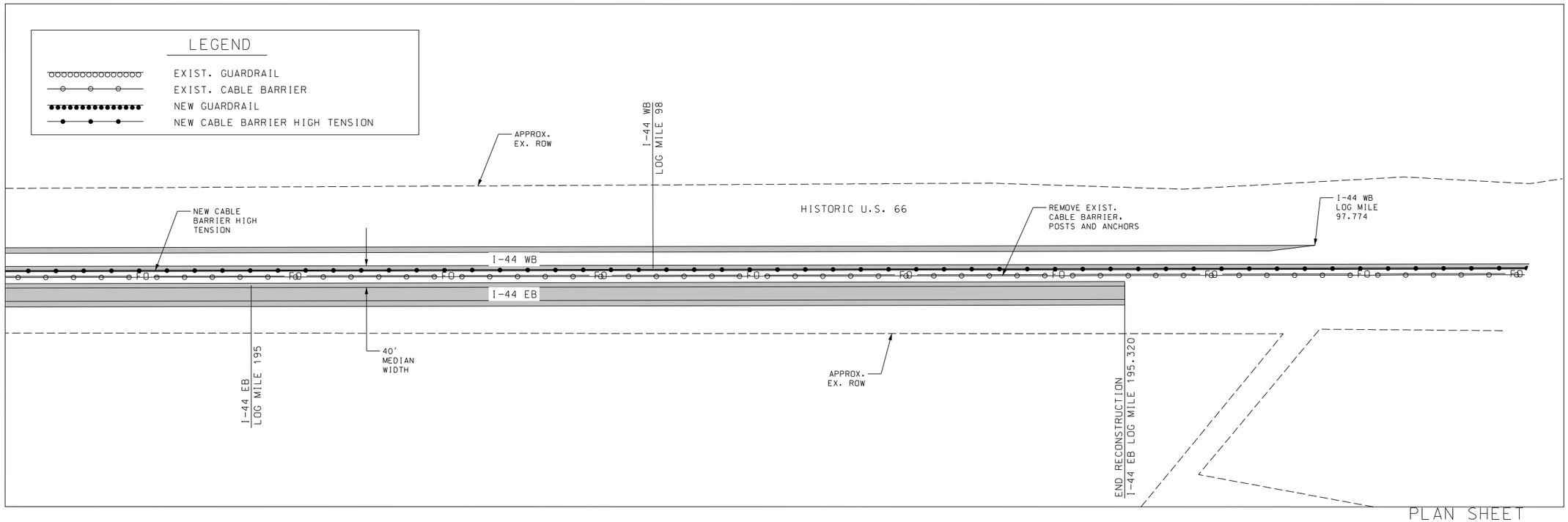

PLAN SHEET
SHEET 9 OF 10

JASON S. DOHRMANN
PE-2004017159
PROFESSIONAL ENGINEER
STATE OF MISSOURI

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

DATE PREPARED
9/22/2021

ROUTE	STATE
I-44	MO
DISTRICT	SHEET NO.
CD	12

COUNTY
PHELPS

JOB NO.
J5I3572

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

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DESCRIPTION	DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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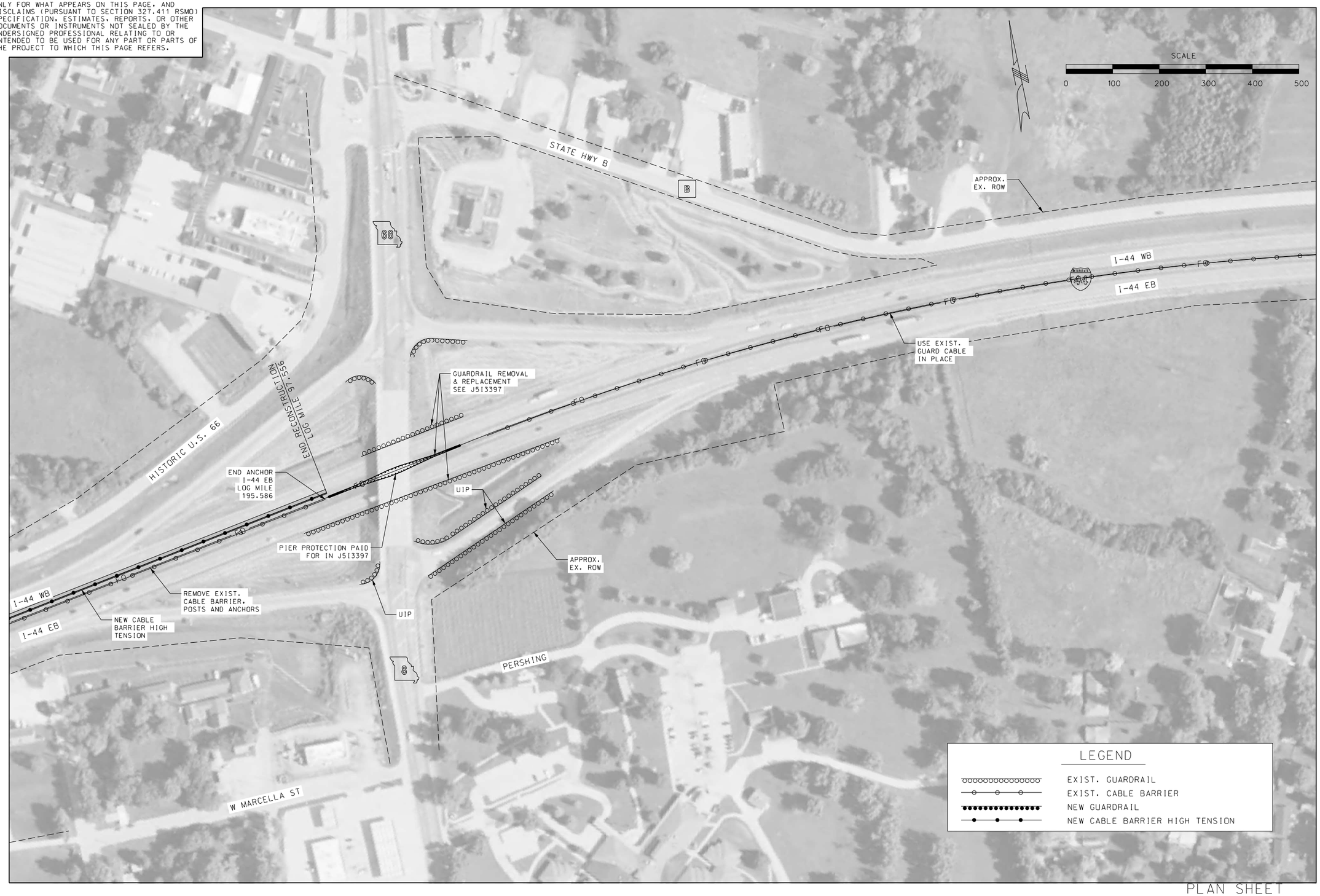

PLAN SHEET
SHEET 10 OF 10

STATE OF MISSOURI
JASON S. DOHRMANN
PE-2004017159
PROFESSIONAL ENGINEER

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

DATE PREPARED
9/22/2021

ROUTE	STATE
I-44	MO
DISTRICT	SHEET NO.
CD	13

COUNTY
PHELPS

JOB NO.
J5I3572

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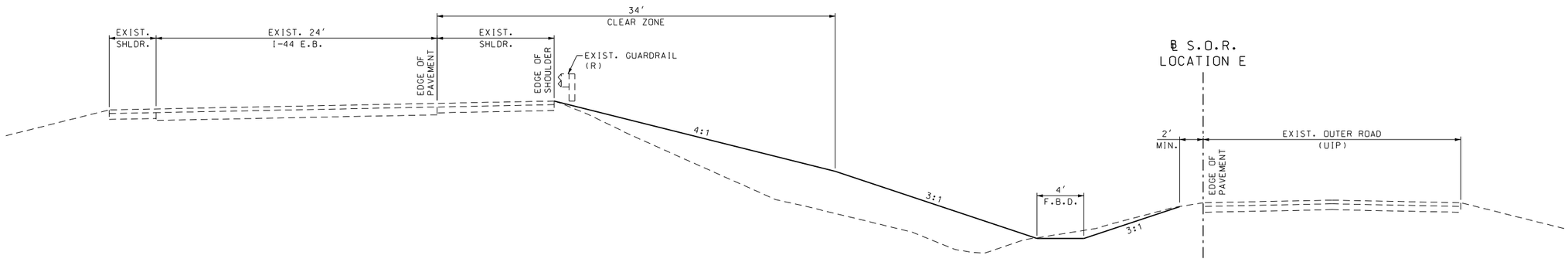

TYPICAL SECTION
SOUTH OUTER ROAD/I-44
STA 56+25.00 TO STA 64+75.00

NOTES:

F.B.D. - FLAT BOTTOM DITCH

SPECIAL SHEET
LOCATION E
LOG MILE 190.0-190.2
DILLON OUTER ROAD
SHEET 1 OF 4

STATE OF MISSOURI
PAUL JOSEPH KRONLAGE
NUMBER EN 023328
REGISTERED PROFESSIONAL ENGINEER
THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED
9/8/2021

ROUTE	STATE
I-44	MO
DISTRICT	SHEET NO.
CD	14

COUNTY
PHELPS

JOB NO.
J5I3572

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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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

REV.

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.

BAR BILL TO BE DEVELOPED BY CONTRACTOR FOR 4'x3' CONCRETE BOX CULVERT. SEE STANDARD PLANS.

SIGNING NOTES:

NO DIRECT PAY FOR RELOCATING EXISTING SIGNS TO NEW POSTS

I-44 EAST LOG MILE 190.0 - 190.2
LOCATION E
SEE J5I3397 FOR LOCATIONS A-D

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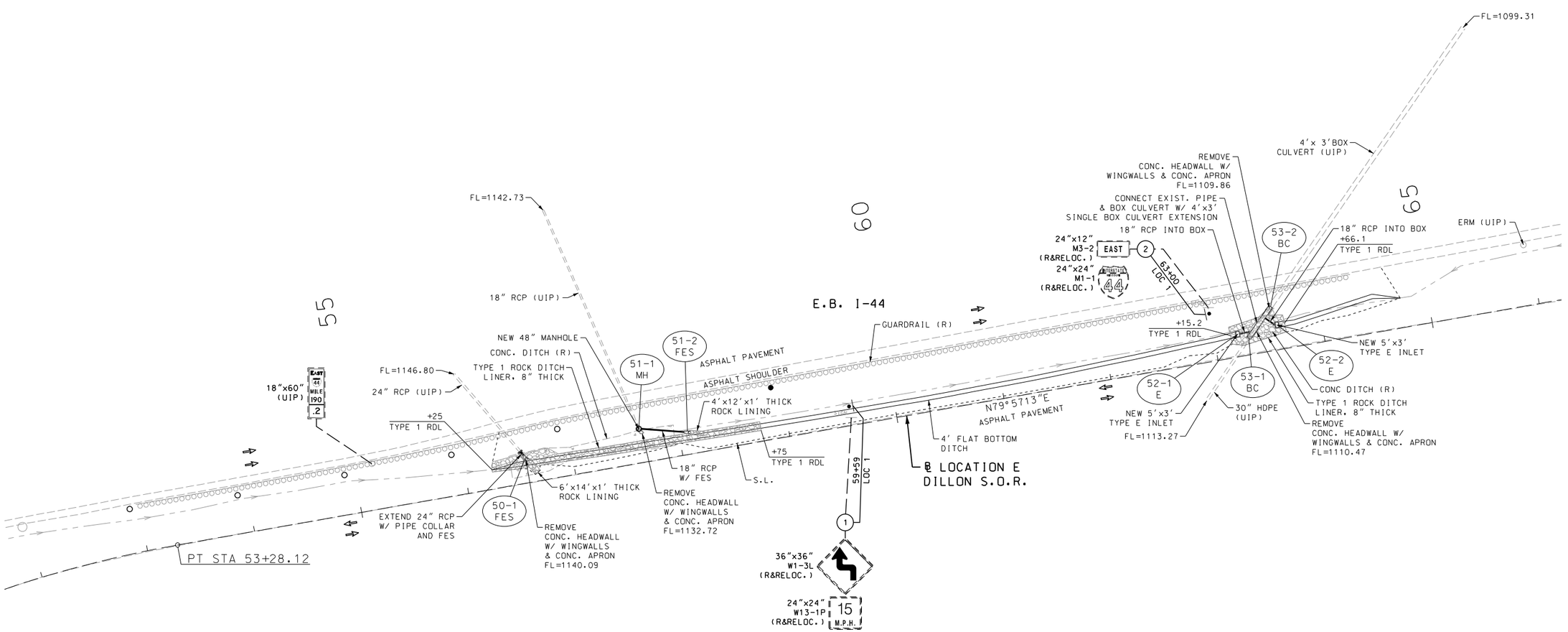

PI 51+65.29
PC 50+00.00
PT 53+28.12
Δ 17° 06' 19.7" (RT)
D 5° 12' 47.4"
L 328.12'
T 165.29'
R 1,099.06'

LEGEND:
- ● WHITE DELINEATOR (1 EA)
- ○ WHITE DOUBLE STACKED DELINEATOR (8 EA)

NOTE:
ERM - EMERGENCY REFERENCE MARKER
RDL - ROCK DITCH LINER

SCALE
0 50 100 150

SPECIAL SHEET
LOCATION E
LOG MILE 190.0-190.2
DILLON OUTER ROAD
SHEET 2 OF 4

STATE OF MISSOURI
PAUL JOSEPH KRONLAGE NUMBER EN 023328
REGISTERED PROFESSIONAL ENGINEER
THIS SHEET WAS SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED 9/8/2021
ROUTE I-44 | STATE MO
DISTRICT CD | SHEET NO. 15
COUNTY PHELPS
JOB NO. J5I3572
CONTRACT ID.
PROJECT NO.
BRIDGE NO.

DATE	DESCRIPTION	REV.

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

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

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

EFFECTIVE 12-01-2017

SIGNS

902 SIGNAL SIGNS TABULATED ON D-37A SHEET

PIPE POST ✳

STRUCTURAL STEEL

POSTS ✳

BACKING BARS

2" X ⅛" BARS @ 2.55 LBS PER LIN FT

U CHANNEL POST

PERFORATED SQUARE STEEL TUBE POST

2 IN

2.5 IN

FOOTINGS

SIGN NO.	SIGN SIZE	STATION	HORZ CLEAR IF NOT STD	LOCATION	SIGN DTL. SHT. NO.	PIPE SIZE	POST NO.1	POST NO.2	LBS PER FT	TOTAL ITEM NO. 9031220 LBS	POST DES NO.	POST NO.1	POST NO.2	POST NO.3	LBS PER FT	TOTAL	BACKING BARS NO. EACH	BACKING BARS LGTH IN.	BACKING BARS TOTAL LF	BACKING BARS TOTAL LBS	TOTAL ITEM NO. 9031210 LBS	U CHANNEL POST ITEM NO. 9031250 LF	2 IN POST NO.1 LF	2 IN POST NO.2 LF	2 IN TOTAL ITEM NO. 9031270A LF	2 IN ANCHOR 7 GA. ITEM NO. 9031273 LF	2 IN OMNI 7 GA. ITEM NO. 9031279 LF	2 IN ANCHOR 12 GA. ITEM NO. 9031271 LF	2 IN OMNI 12 GA. ITEM NO. 9031278 LF	2.5 IN POST NO.1 LF	2.5 IN POST NO.2 LF	2.5 IN TOTAL ITEM NO. 9031280 LF	2.5 IN 2.25" INSERT ITEM NO. 9031272 LF	2.5 IN ANCHOR 7 GA. ITEM NO. 9031281 LF	2.5 IN OMNI 7 GA. ITEM NO. 9031282 LF	BREAK-AWAY ASSEMBLY ITEM NO. 9031241 EACH	FOOTINGS EMBD ITEM NO. 9031010 CU YDS	FOOTINGS BOLT DOWN ITEM NO. 9031020 CU YDS	REMARKS AND OTHER REQUIRED ITEMS.
						IN.	LF	LF		LBS		LF	LF	LF		LBS	EACH	IN.	LF	LBS	LBS	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	EACH			
1	ASSY	59+59		LOC E																			16		16			3											RELOC. EX. SIGN TO NEW POST (N.D.P.)
2	ASSY	63+00		LOC E		2.5	16.00		5.79	92.64																										0.13		RELOC. EX. SIGN TO NEW POST (N.D.P.)
																																					DELINEATORS:	
																																				1 EA WHITE	
																																				5 EA WHITE DBL STACKED	
SUBTOTAL										92.64															16			3								0.13		
TOTAL										92.64															16			3								0.13		

✳ BREAKAWAY ASSEMBLY IS INCIDENTAL FOR PIPE AND STRUCTURAL STEEL 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
3	7.58	0.63	4'-3½"	12"	4'-6"	0.13
4	10.79	0.90	5'-3½"	18"	5'-6"	0.36

POST AND FOOTING DATA TABLE

POST DES. NO.	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

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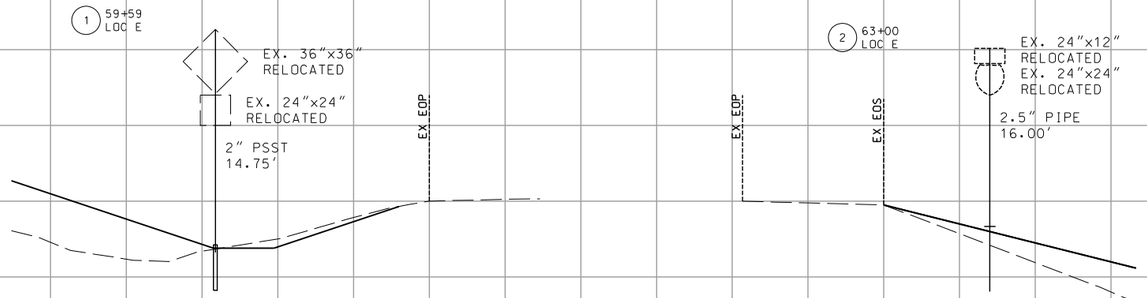
D-29

NOTE - NO DIRECT PAY FOR RELOCATING EXISTING SIGNS TO NEW POSTS



5'

SPECIAL SHEET
LOCATION E
LOG MILE 190.0-190.2
DILLON OUTER ROAD
SHEET 3 OF 4

STATE OF MISSOURI
PAUL JOSEPH KRONLAGE
NUMBER EN 023328
REGISTERED PROFESSIONAL ENGINEER
THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED 9/8/2021

ROUTE I-44 | STATE MO
DISTRICT CD | SHEET NO. 16
COUNTY PHELPS
JOB NO. J513572
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)

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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REV.

Z:\21050.00 HRGreen I-44 Reconstruction J513572\DGN\Design\Final\Plotsheets\016_SS_03_J513572_i5_LocE Signing.dgn 5:06:38 PM 9/8/2021

TEMPORARY EROSION CONTROL LEGEND

- (A) ALTERNATE DITCH CHECK
- (R) ROCK DITCH CHECK
- (S) SEDIMENT TRAP
- (C) INLET CHECK
- SILT FENCE

SHEET QUANTITIES
TEMPORARY EROSION CONTROL

ROCK DITCH CHECK - 304 LF
SEDIMENT TRAP EXCAVATION - 3 CY
SEDIMENT TRAP ROCK - 4 CY
SEDIMENT REMOVAL - 24 CY

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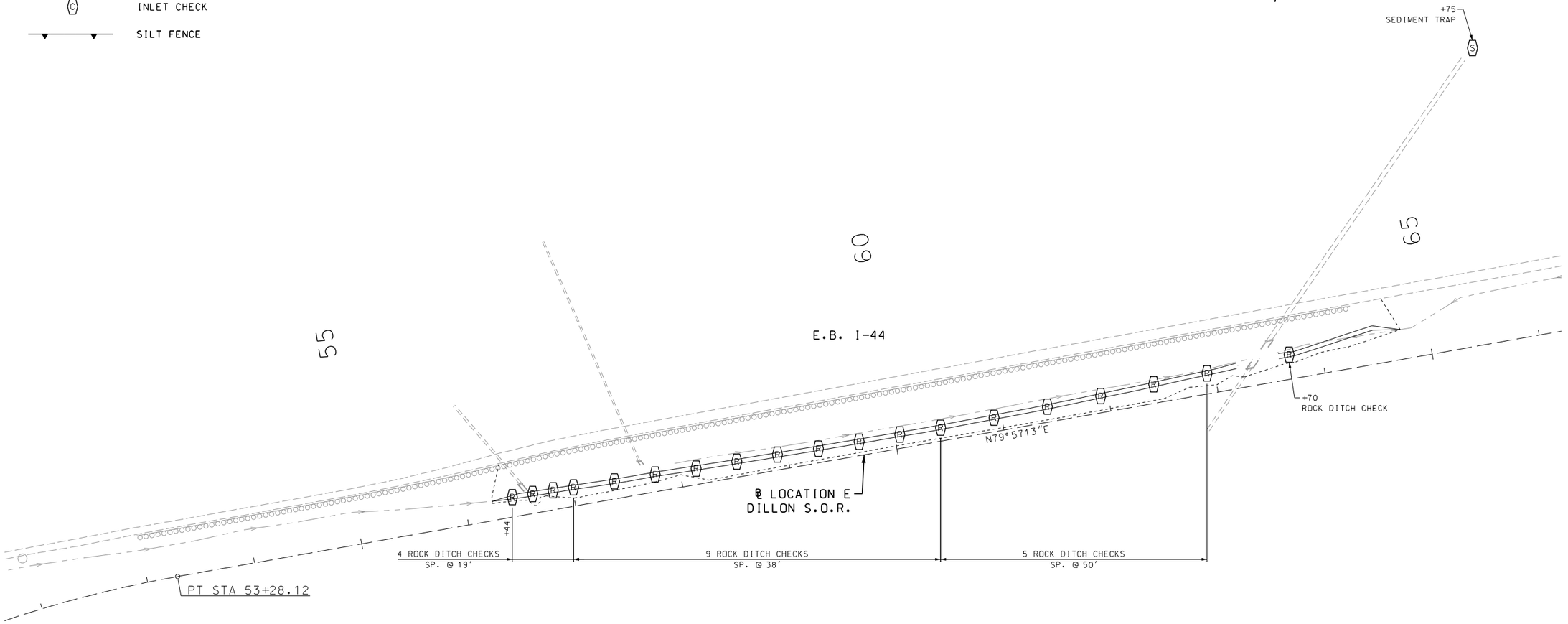

PRIMARY RECEIVING WATER -
UPPER MISSISSIPPI-KASKASKIA-MERAMEC

SCALE
0 50 100 150

SPECIAL SHEET
EROSION CONTROL
LOCATION E
LOG MILE 190.0-190.2
DILLON OUTER ROAD
SHEET 4 OF 4

STATE OF MISSOURI
PAUL JOSEPH KRONLAGE
NUMBER EN 023328
REGISTERED PROFESSIONAL ENGINEER
THIS SHEET WAS SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED: 9/8/2021
ROUTE: I-44 | STATE: MO
DISTRICT: CD | SHEET NO.: 17
COUNTY: PHELPS
JOB NO.: J5I3572
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
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Phone 314-394-3100
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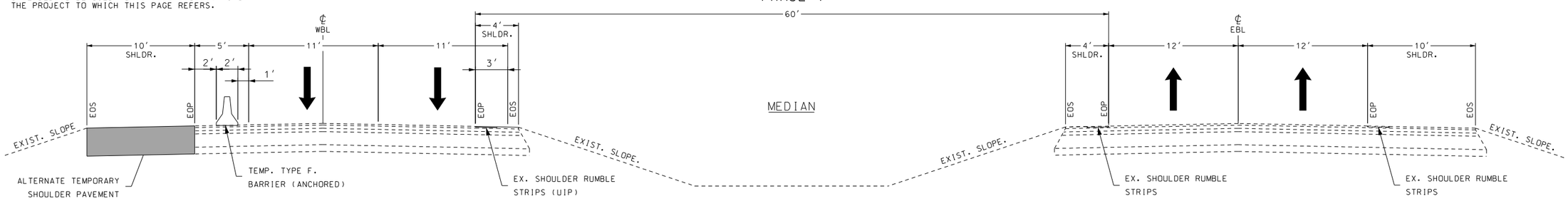
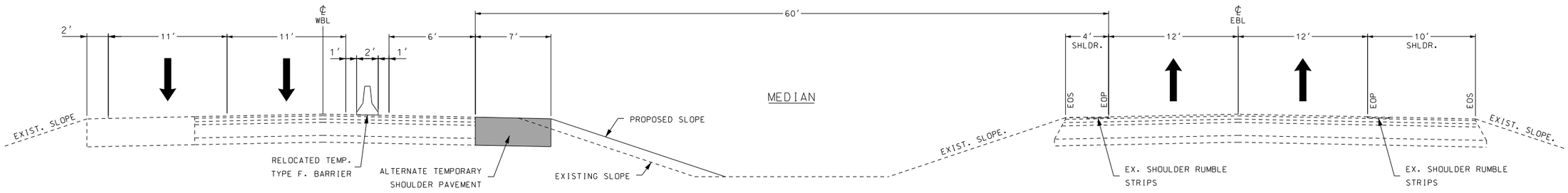
PHASE 1

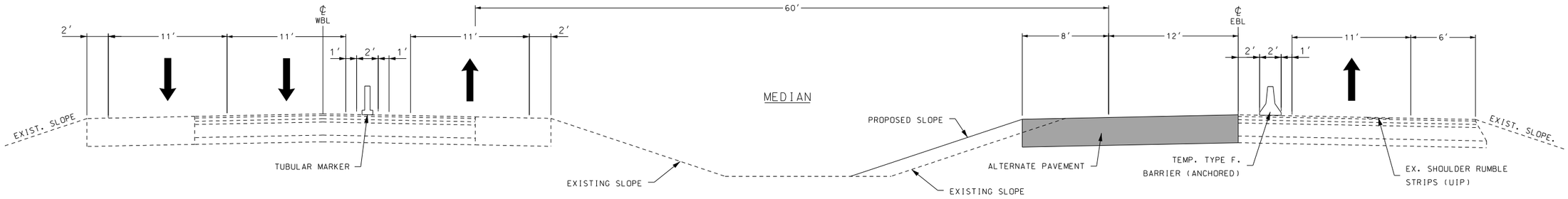


PHASE 2

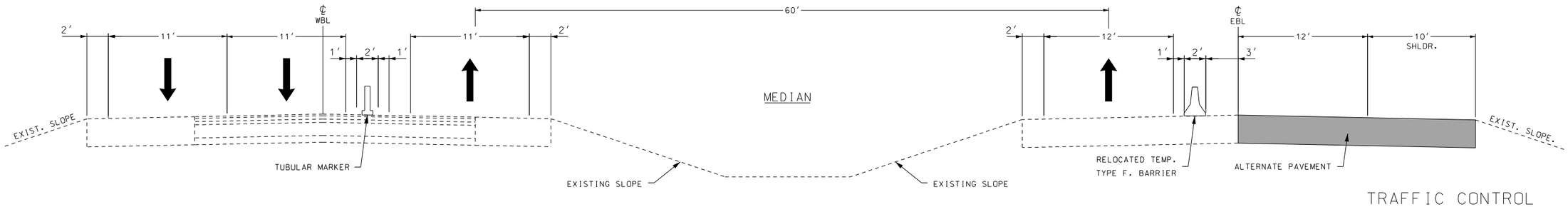


PH. 1/2 EXPECTED COMPLETION DURING FIRST CONSTRUCTION SEASON

PHASE 3



PHASE 4



TRAFFIC CONTROL TYPICAL SECTIONS SHEET 1 OF 15

JASON S. DOHRMANN PE-2004017159
STATE OF MISSOURI PROFESSIONAL ENGINEER

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

DATE PREPARED 9/23/2021
ROUTE I-44 | STATE MO
DISTRICT CD | SHEET NO. 18
COUNTY PHELPS
JOB NO. J5I3572
CONTRACT ID.
PROJECT NO.
BRIDGE NO.

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

DESCRIPTION | DATE | REV.

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

HR GREEN, INC.
16020 SWINGLEY RIDGE ROAD.
SUITE 205
ST. LOUIS, MISSOURI 63017
PHONE: (636) 519.0990
CORPORATE LICENSE #2002006608

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SCALE
0 600 1200 1800 2400 3600

NOTES:
1. ALL LOG MILES GIVEN ON THIS SHEET FROM THE I-44 EASTBOUND ALIGNMENT, UNLESS OTHERWISE INDICATED.
2. SEE TRAFFIC CONTROL SHEETS 11-15 OF 15 FOR SIGN DETAILS INCLUDING POST / FOOTING REQUIREMENTS.

EXIST. DMS BOARD
LOG MILE 180.119
RESIDENT ENGINEER TO COORDINATE WITH STATEWIDE ITS FOR ADVANCED WARNING "ROADWAY ROLLA TO ST. JAMES. EXPECT DELAYS"

EAST INTERSTATE 44 THRU TRAFFIC
LEFT LANE AHEAD
8'W. x 7'H.

LOG MILE 0.052 RAMP

EAST INTERSTATE 44 ALL TRUCKS AND EXITING TRAFFIC
CENTER LANE AHEAD
10'W. x 7'H.

LOG MILE 0.052 RAMP

EAST INTERSTATE 44 THRU TRAFFIC
LEFT LANE NEXT 9 MILES
10'W. x 7'H.

LOG MILE 185.793

LOG MILE 185.795

EAST INTERSTATE 44 ALL TRUCKS AND EXITING TRAFFIC
RIGHT LANE NEXT 9 MILES
12'W. x 8'H.

EAST INTERSTATE 44 THRU TRAFFIC
LEFT LANE NEXT 11 MILES
10'W. x 7'H.

LOG MILE 183.847

LOG MILE 183.847

EAST INTERSTATE 44 ALL TRUCKS AND EXITING TRAFFIC
RIGHT LANE NEXT 11 MILES
12'W. x 8'H.

EAST INTERSTATE 44 THRU TRAFFIC
LEFT LANE NEXT 10 MILES
10'W. x 7'H.

LOG MILE 184.680

LOG MILE 184.680

EAST INTERSTATE 44 ALL TRUCKS AND EXITING TRAFFIC
RIGHT LANE NEXT 10 MILES
12'W. x 8'H.

ADVANCED WORK ZONE SIGNAGE
SHEET 2 OF 15

STATE OF MISSOURI
JASON S. DOHRMANN
PE-2004017159
PROFESSIONAL ENGINEER

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

DATE PREPARED
9/22/2021

ROUTE	STATE
I-44	MO
DISTRICT	SHEET NO.
CD	19

COUNTY
PHELPS

JOB NO.
J5I3572

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)

HR GREEN, INC.
16020 SWINGLEY RIDGE ROAD, SUITE 205
ST. LOUIS, MISSOURI 63017
PHONE: (636) 519.0990
CORPORATE LICENSE #2002006608
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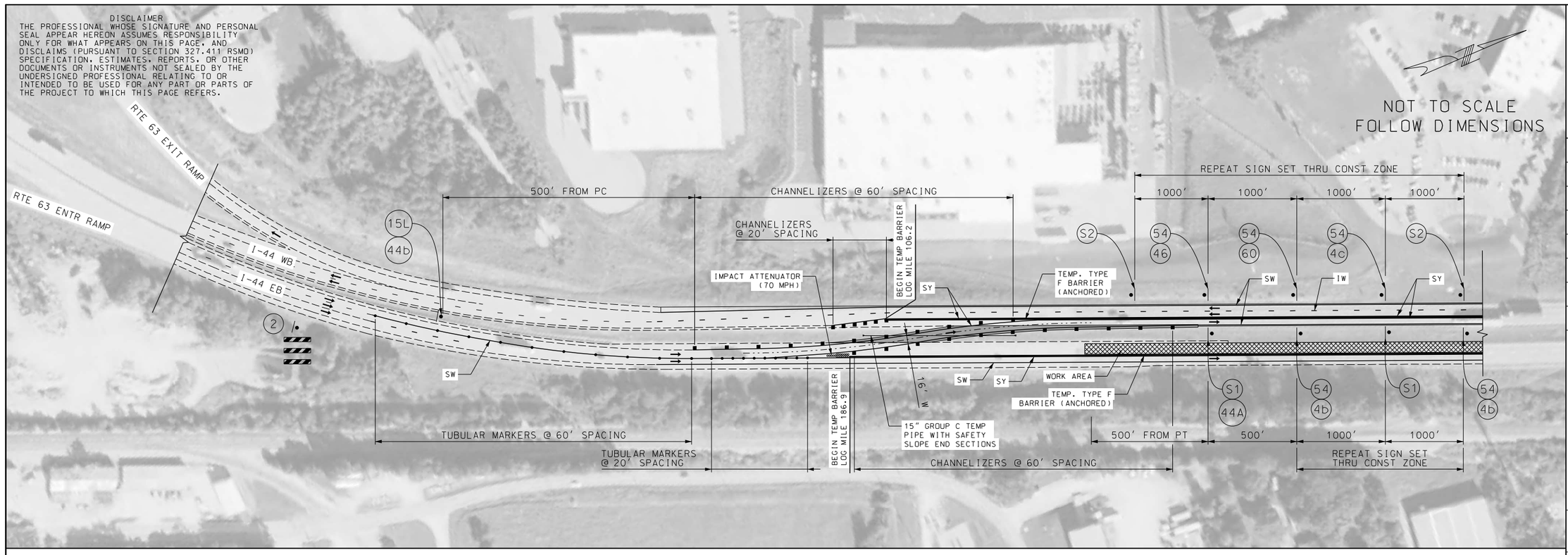


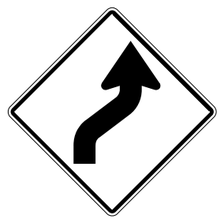
W020-1 (2)

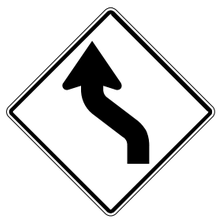
R2-1 (4b)

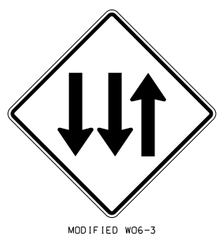
R2-1 (4c)

W03-4 (11)

R1-2 (13)


W01-4R (15R)


W01-4L (15L)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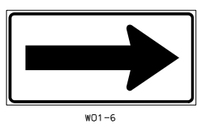
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W07-3a (44A)

W013-1 (44b)

W013-1 (44c)

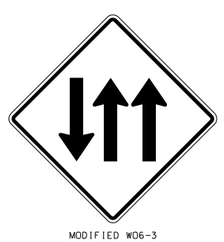
R4-1 (46)

E05-1 (49)

G020-5aP (54)

R4-9 (60)

W04-3L (61)


MODIFIED W06-3 (S2)

TRAFFIC CONTROL LEGEND

- SIGN (SINGLE SIDED)
- SIGN (DOUBLE SIDED)
- FLAGGER
- TUBULAR MARKERS
- CHANNELIZER
- BARRICADE
- CHANGEABLE MESSAGE BOARD
- ADVANCE WARNING RAIL SYSTEM (AWRS)

NOTES:
1. SEE J5I3397 TRAFFIC CONTROL PLAN FOR ADVANCE SIGNING FOR PROJECT.
2. SEE TYPICAL APPLICATION 39 FOR ADDITIONAL MEDIAN CROSSOVER DETAILS.

TRAFFIC CONTROL
PHASE 3 DETAIL 1
SHEET 3 OF 15

STATE OF MISSOURI
JASON S. DOHRMANN
PE-2004017159
PROFESSIONAL ENGINEER

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

DATE PREPARED: 9/30/2021

ROUTE	STATE
I-44	MO

DISTRICT	SHEET NO.
CD	20

COUNTY: PHELPS
JOB NO.: J5I3572
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)

HR GREEN, INC.
16020 SWINGLEY RIDGE ROAD,
SUITE 205
ST. LOUIS, MISSOURI 63017
PHONE: (636) 519.0990
CORPORATE LICENSE #2002006608

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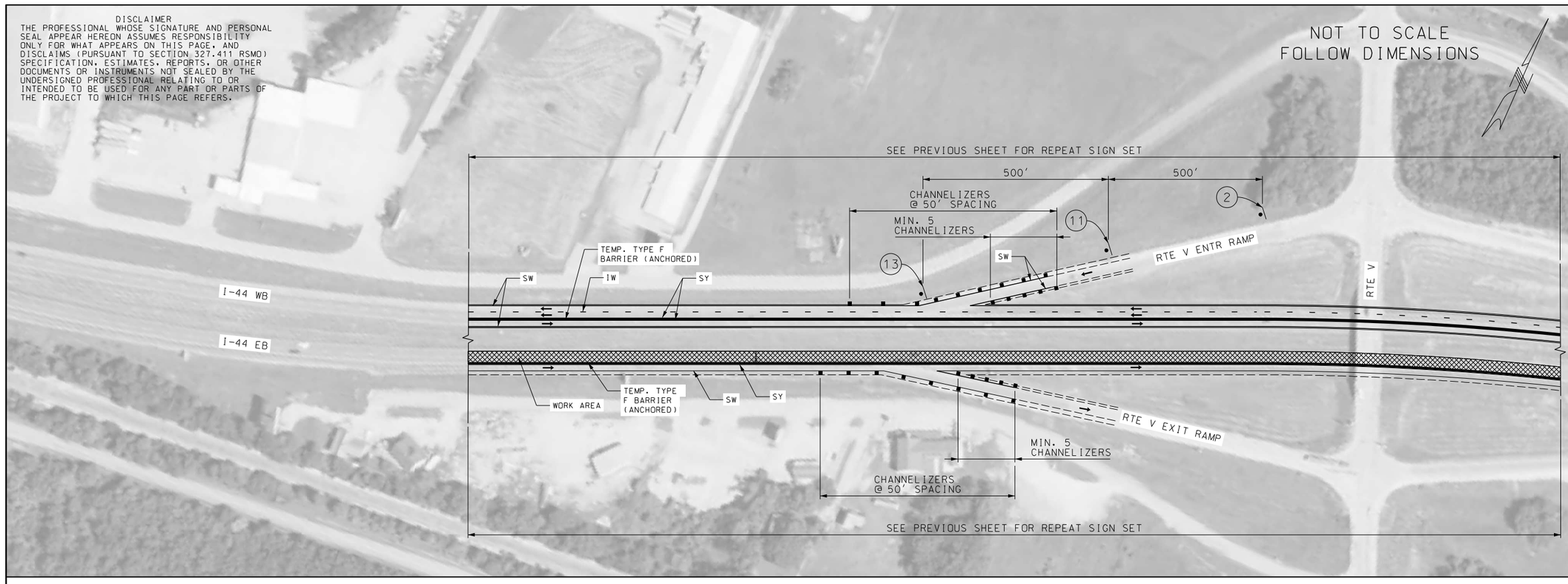
FOLLOW DIMENSIONS



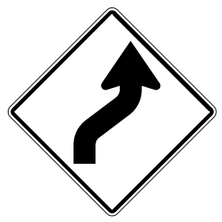
W020-1
(2)

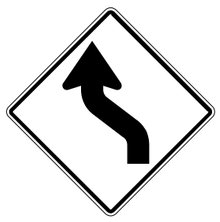
R2-1
(4b)

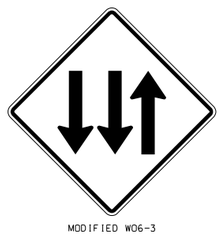
R2-1
(4c)

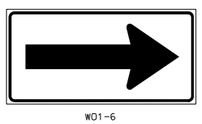
W03-4
(11)

R1-2
(13)


W01-4R
(15R)


W01-4L
(15L)


MODIFIED W06-3
(S1)


W01-6
(16)

W07-3a
(44A)

W013-1
(44b)

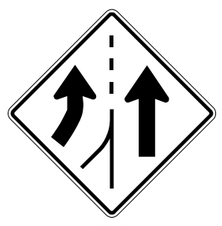
W013-1
(44c)

R4-1
(46)

E05-1
(49)

G020-5aP
(54)

R4-9
(60)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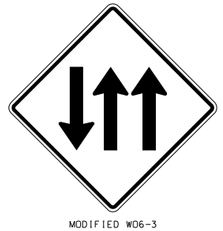
MODIFIED W06-3
(S2)

TRAFFIC CONTROL LEGEND

- SIGN (SINGLE SIDED)
- SIGN (DOUBLE SIDED)
- FLAGGER
- TUBULAR MARKERS
- CHANNELIZER
- BARRICADE
- CHANGEABLE MESSAGE BOARD
- ADVANCE WARNING RAIL SYSTEM (AWRS)

NOTES:
1. SEE J5I3397 TRAFFIC CONTROL PLAN FOR ADVANCE SIGNING FOR PROJECT.
2. SEE TYPICAL APPLICATIONS 42 AND 44 FOR ADDITIONAL RAMP DETAILS.

TRAFFIC CONTROL
PHASE 3 DETAIL 2
SHEET 4 OF 15

STATE OF MISSOURI
JASON S. DOHRMANN
PE-2004017159
PROFESSIONAL ENGINEER

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

DATE PREPARED: 9/22/2021
ROUTE: I-44 | STATE: MO
DISTRICT: CD | SHEET NO.: 21
COUNTY: PHELPS
JOB NO.: J5I3572
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)

HR GREEN, INC.
16020 SWINGLEY RIDGE ROAD,
SUITE 205
ST. LOUIS, MISSOURI 63017
PHONE: (636) 519.0990
CORPORATE LICENSE #2002006608

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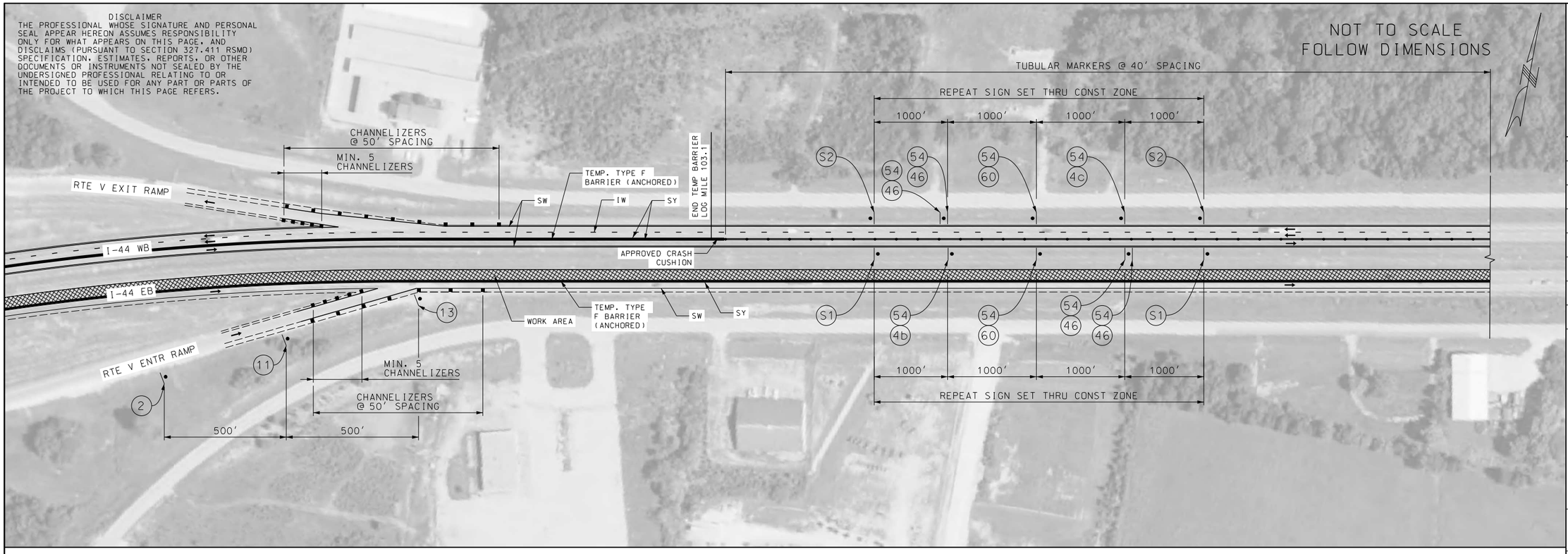

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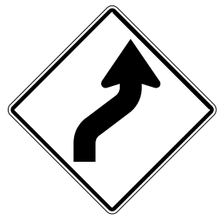
R2-1
(4b)

R2-1
(4c)

W03-4
(11)

R1-2
(13)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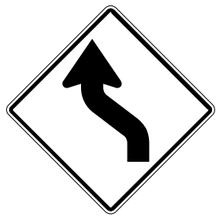
(15R)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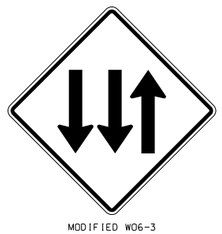
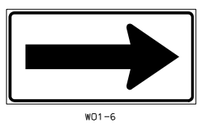

MODIFIED W06-3
(S1)


W01-6
(16)

W07-3a
(44A)

W013-1
(44b)

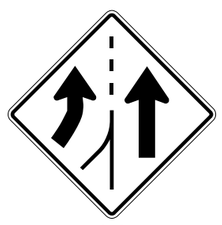
W013-1
(44c)

R4-1
(46)

E05-1
(49)

G020-5aP
(54)

R4-9
(60)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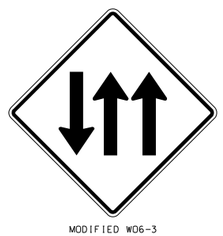
MODIFIED W06-3
(S2)

TRAFFIC CONTROL LEGEND

- SIGN (SINGLE SIDED)
- SIGN (DOUBLE SIDED)
- FLAGGER
- TUBULAR MARKERS
- CHANNELIZER
- BARRICADE
- CHANGEABLE MESSAGE BOARD
- ADVANCE WARNING RAIL SYSTEM (AWRS)

NOTES:
1. SEE J5I3397 TRAFFIC CONTROL PLAN FOR ADVANCE SIGNING FOR PROJECT.
2. SEE TYPICAL APPLICATION 39 FOR MEDIAN CROSSOVER DETAILS.
3. SEE TYPICAL APPLICATIONS 42 AND 44 FOR ADDITIONAL RAMP DETAILS.

TRAFFIC CONTROL
PHASE 3 DETAIL 3
SHEET 5 OF 15

STATE OF MISSOURI
JASON S. DOHRMANN
PE-2004017159
PROFESSIONAL ENGINEER

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

DATE PREPARED
9/22/2021

ROUTE	STATE
I-44	MO
DISTRICT	SHEET NO.
CD	22

COUNTY
PHELPS

JOB NO.
J5I3572

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

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

DESCRIPTION	DATE

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

HR GREEN, INC.
16020 SWINGLEY RIDGE ROAD,
SUITE 205
ST. LOUIS, MISSOURI 63017
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CORPORATE LICENSE #2002006608

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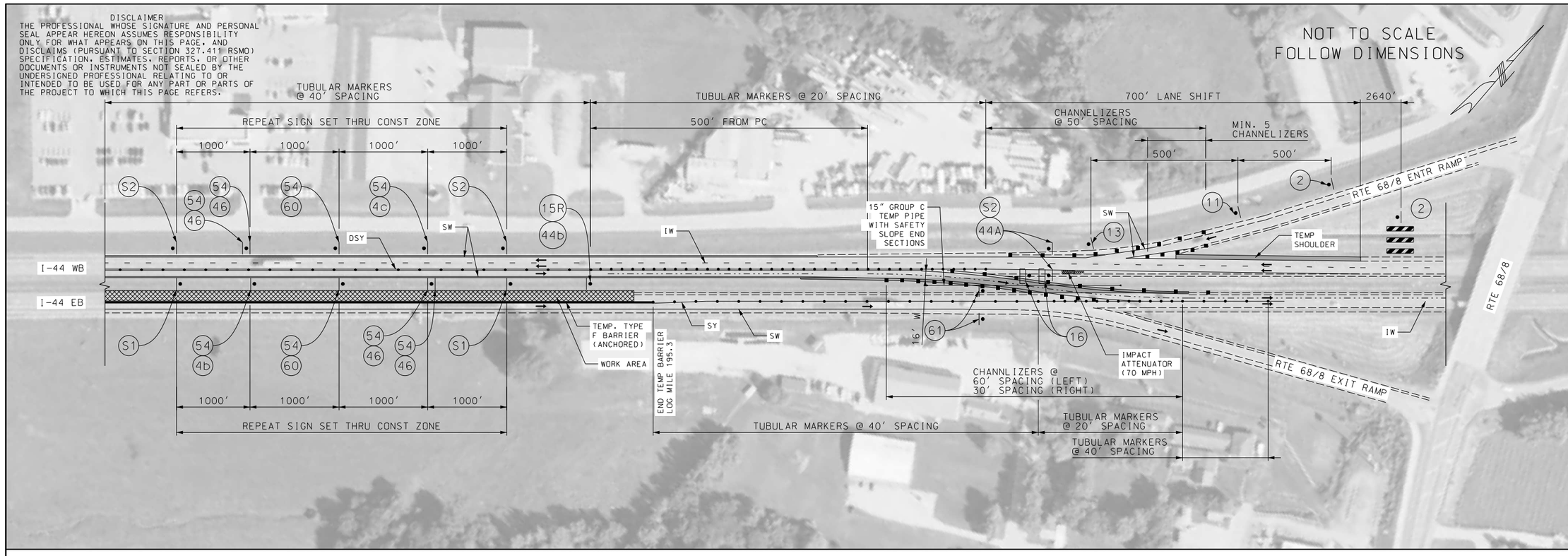

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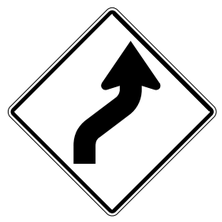
R2-1 (4b)

R2-1 (4c)

W03-4 (11)

R1-2 (13)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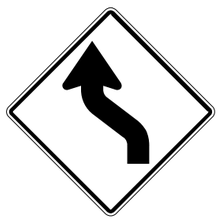
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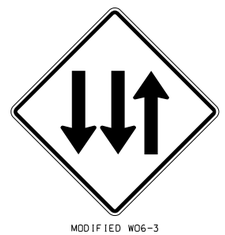
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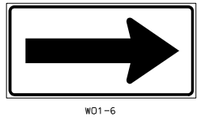
W01-6 (16)

W07-3a (44A)

W013-1 (44b)

W013-1 (44c)

R4-1 (46)

E05-1 (49)

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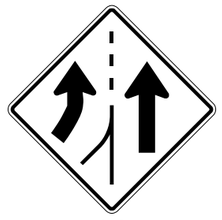
R4-9 (60)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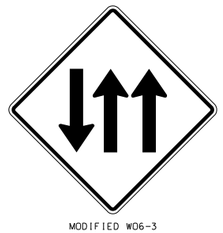
MODIFIED W06-3 (S2)

TRAFFIC CONTROL LEGEND

- SIGN (SINGLE SIDED)
- SIGN (DOUBLE SIDED)
- FLAGGER
- TUBULAR MARKERS
- CHANNELIZER
- BARRICADE
- CHANGEABLE MESSAGE BOARD
- ADVANCE WARNING RAIL SYSTEM (AWRS)

NOTES:
1. SEE J5I3397 TRAFFIC CONTROL PLAN FOR ADVANCE SIGNING FOR PROJECT.
2. SEE TYPICAL APPLICATION 39 FOR MEDIAN CROSSOVER DETAILS.
3. SEE TYPICAL APPLICATIONS 42 AND 44 FOR ADDITIONAL RAMP DETAILS.

TRAFFIC CONTROL
PHASE 3 DETAIL 4
SHEET 6 OF 15

STATE OF MISSOURI
JASON S. DOHRMANN
PE-2004017159
PROFESSIONAL ENGINEER

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

DATE PREPARED: 9/30/2021
ROUTE: I-44 | STATE: MO
DISTRICT: CD | SHEET NO.: 23
COUNTY: PHELPS
JOB NO.: J5I3572
CONTRACT ID.:
PROJECT NO.:
BRIDGE NO.:

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

DESCRIPTION	DATE

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

HR GREEN, INC.
16020 SWINGLEY RIDGE ROAD,
SUITE 205
ST. LOUIS, MISSOURI 63017
PHONE: (636) 519.0990
CORPORATE LICENSE #2002006608

\\hrgreen.com\HRG\Data\2021\210549\CAD\Data\J5I3572\023_TC_06_J5I3572_I100.dgn 12:50:27 PM 9/30/2021

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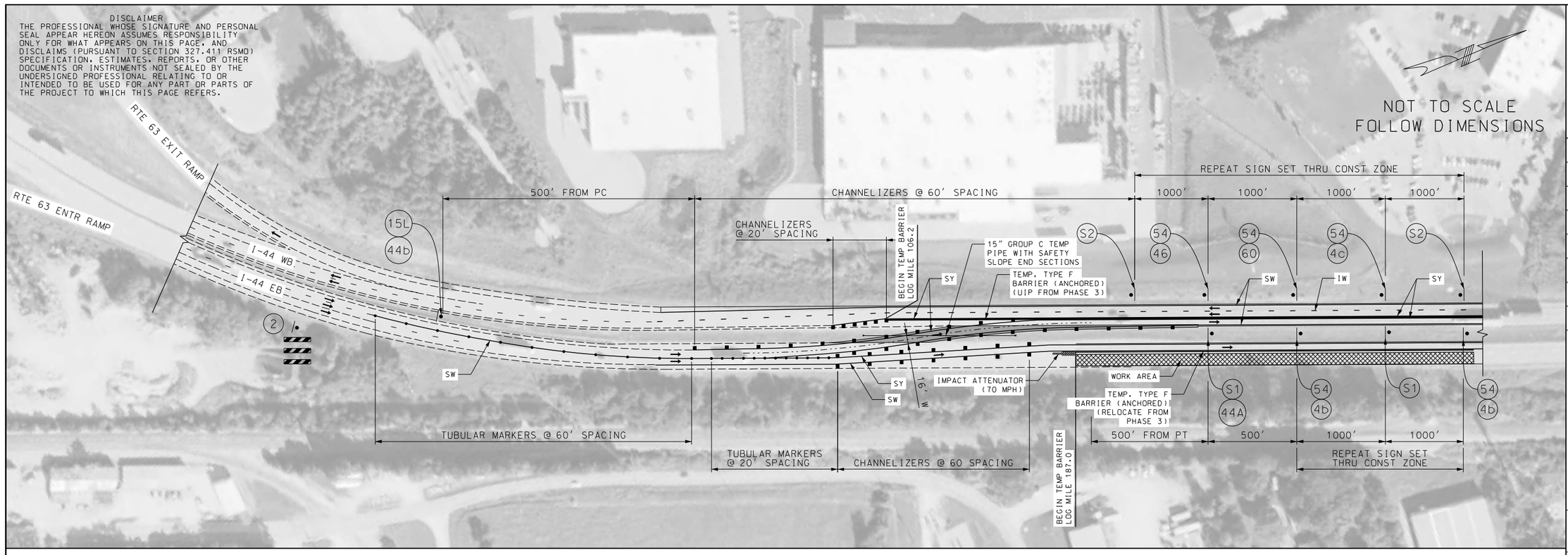

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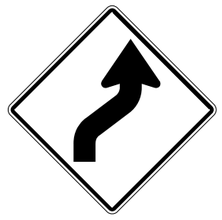
2

R2-1
4b

R2-1
4c

W03-4
11

R1-2
13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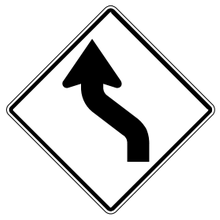
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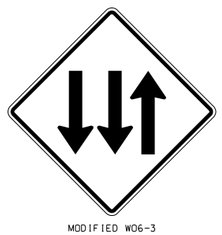
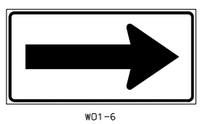
15L


MODIFIED W06-3
S1


W01-6
16

W07-3a
44A

W013-1
44b

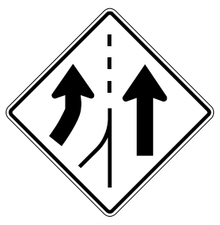
W013-1
44c

R4-1
46

E05-1
49

G020-5aP
54

R4-9
60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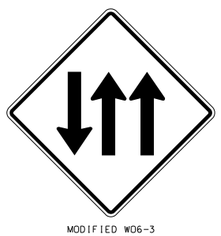
MODIFIED W06-3
S2

TRAFFIC CONTROL LEGEND

- SIGN (SINGLE SIDED)
- SIGN (DOUBLE SIDED)
- FLAGGER
- TUBULAR MARKERS
- CHANNELIZER
- BARRICADE
- CHANGEABLE MESSAGE BOARD
- ADVANCE WARNING RAIL SYSTEM (AWRS)

NOTES:
1. SEE J5I3397 TRAFFIC CONTROL PLAN FOR ADVANCE SIGNING FOR PROJECT.
2. SEE TYPICAL APPLICATION 39 FOR ADDITIONAL MEDIAN CROSSOVER DETAILS.

TRAFFIC CONTROL PHASE 4 DETAIL 1 SHEET 7 OF 15

STATE OF MISSOURI
JASON S. DOHRMANN
PE-2004017159
PROFESSIONAL ENGINEER

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

DATE PREPARED: 9/30/2021
ROUTE: I-44 | STATE: MO
DISTRICT: CD | SHEET NO.: 24
COUNTY: PHELPS
JOB NO.: J5I3572
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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16020 SWINGLEY RIDGE ROAD,
SUITE 205
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PHONE: (636) 519.0990
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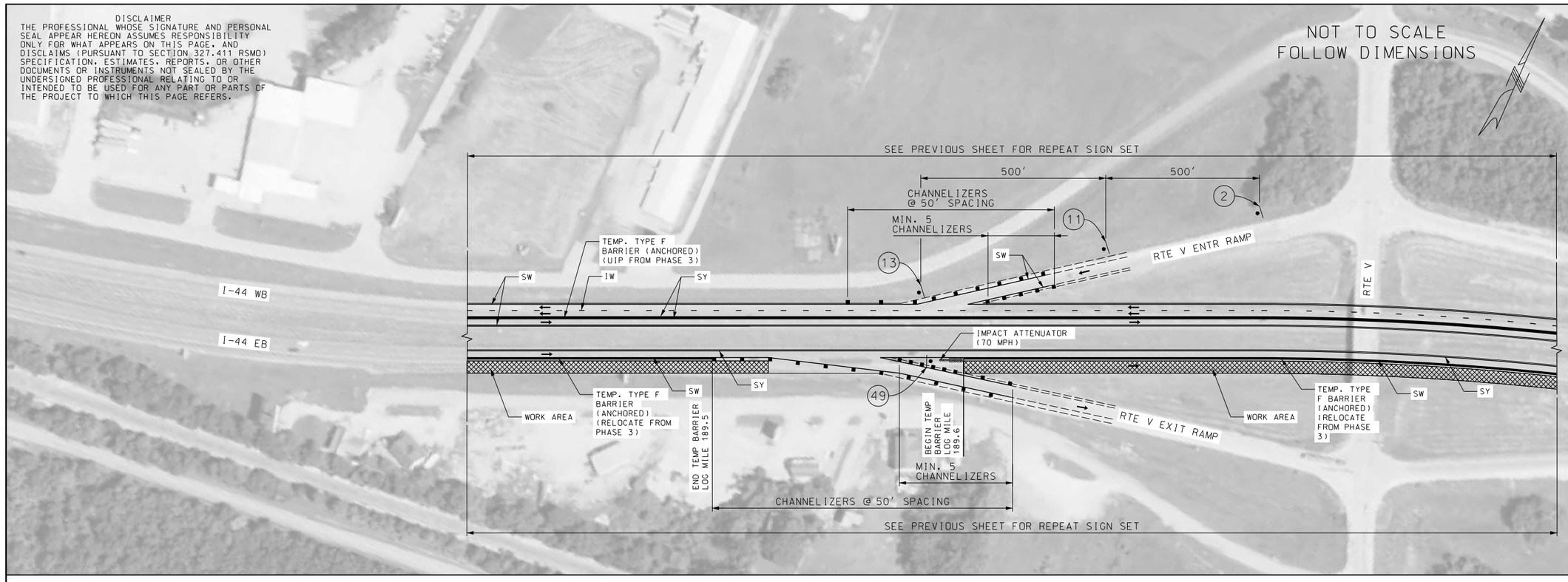

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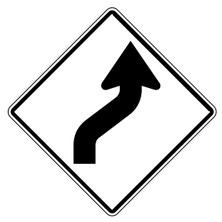
R2-1 (4b)

R2-1 (4c)

W03-4 (11)

R1-2 (13)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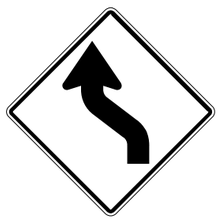
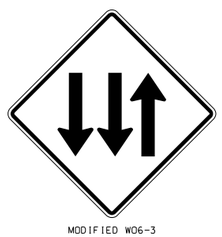
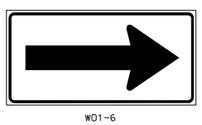

W01-4L (15L)


MODIFIED W06-3 (S1)


W01-6 (16)

W07-3a (44A)

W013-1 (44b)

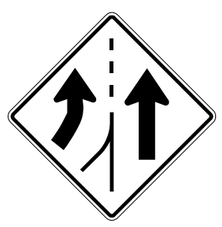
W013-1 (44c)

R4-1 (46)

E05-1 (49)

G020-5aP (54)

R4-9 (60)


W04-3L (61)

MODIFIED W06-3 (S2)

TRAFFIC CONTROL LEGEND

- SIGN (SINGLE SIDED)
- SIGN (DOUBLE SIDED)
- FLAGGER
- TUBULAR MARKERS
- CHANNELIZER
- BARRICADE
- CHANGEABLE MESSAGE BOARD
- ADVANCE WARNING RAIL SYSTEM (AWRS)

NOTES:
1. SEE J5I3397 TRAFFIC CONTROL PLAN FOR ADVANCE SIGNING FOR PROJECT.
2. SEE TYPICAL APPLICATIONS 42 AND 44 FOR ADDITIONAL RAMP DETAILS.

TRAFFIC CONTROL
PHASE 4 DETAIL 2
SHEET 8 OF 15

STATE OF MISSOURI
JASON S. DOHRMANN
PE-2004017159
PROFESSIONAL ENGINEER

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DATE PREPARED	
9/22/2021	
ROUTE	STATE
I-44	MO
DISTRICT	SHEET NO.
CD	25
COUNTY	
PHELPS	
JOB NO.	
J5I3572	
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	

DESCRIPTION	DATE

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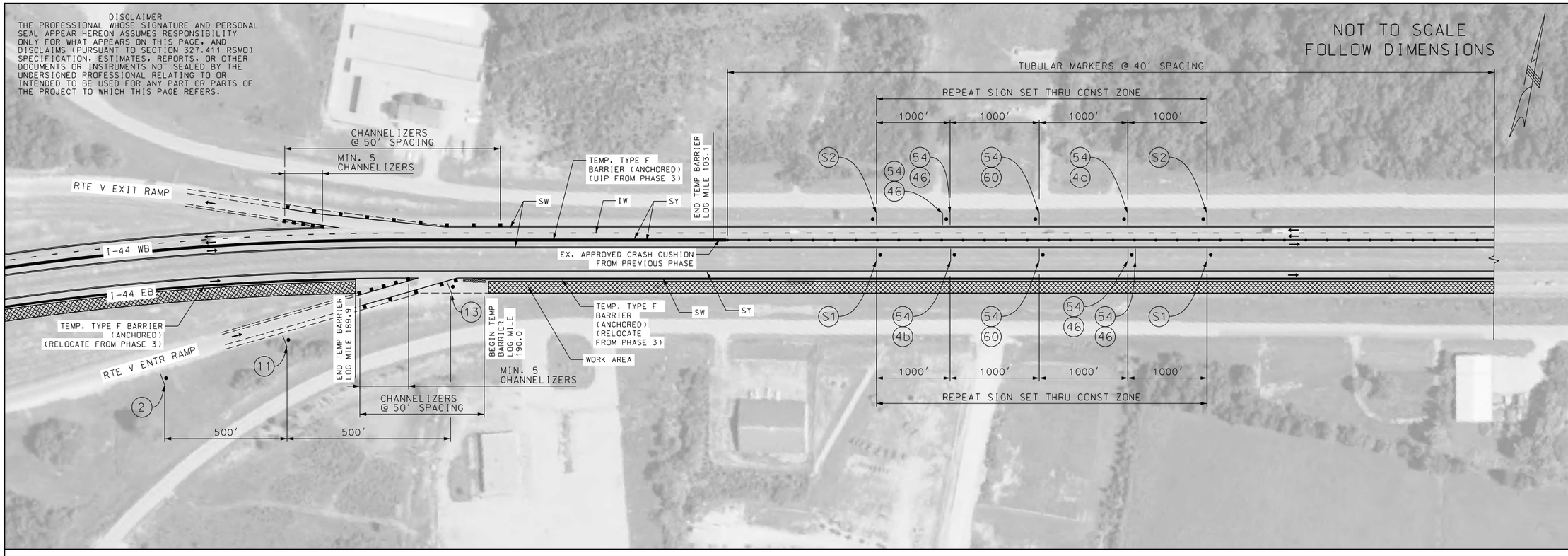
FOLLOW DIMENSIONS



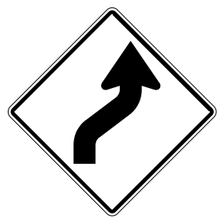
W020-1
(2)

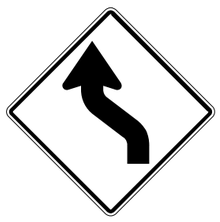
R2-1
(4b)

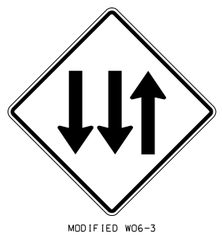
R2-1
(4c)

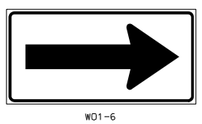
W03-4
(11)

R1-2
(13)


W01-4R
(15R)


W01-4L
(15L)


MODIFIED W06-3
(S1)


W01-6
(16)

W07-3a
(44A)

W013-1
(44b)

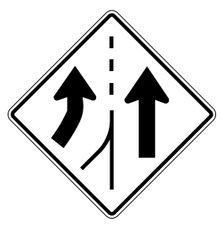
W013-1
(44c)

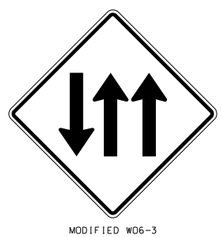
R4-1
(46)

E05-1
(49)

G020-5aP
(54)

R4-9
(60)


W04-3L
(61)


MODIFIED W06-3
(S2)

TRAFFIC CONTROL LEGEND

- SIGN (SINGLE SIDED)
- SIGN (DOUBLE SIDED)
- FLAGGER
- TUBULAR MARKERS
- CHANNELIZER
- BARRICADE
- CHANGEABLE MESSAGE BOARD
- ADVANCE WARNING RAIL SYSTEM (AWRS)

NOTES:
1. SEE J5I3397 TRAFFIC CONTROL PLAN FOR ADVANCE SIGNING FOR PROJECT.
2. SEE TYPICAL APPLICATION 39 FOR MEDIAN CROSSOVER DETAILS.
3. SEE TYPICAL APPLICATIONS 42 AND 44 FOR ADDITIONAL RAMP DETAILS.

TRAFFIC CONTROL
PHASE 4 DETAIL 3
SHEET 9 OF 15

STATE OF MISSOURI
JASON S. DOHRMANN
PE-2004017159
PROFESSIONAL ENGINEER

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

DATE PREPARED
9/22/2021

ROUTE	STATE
I-44	MO
DISTRICT	SHEET NO.
CD	26

COUNTY
PHELPS

JOB NO.
J5I3572

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

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

DESCRIPTION	DATE

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

HR GREEN, INC.
16020 SWINGLEY RIDGE ROAD,
SUITE 205
ST. LOUIS, MISSOURI 63017
PHONE: (636) 519.0990
CORPORATE LICENSE #2002006608
HRGreen®

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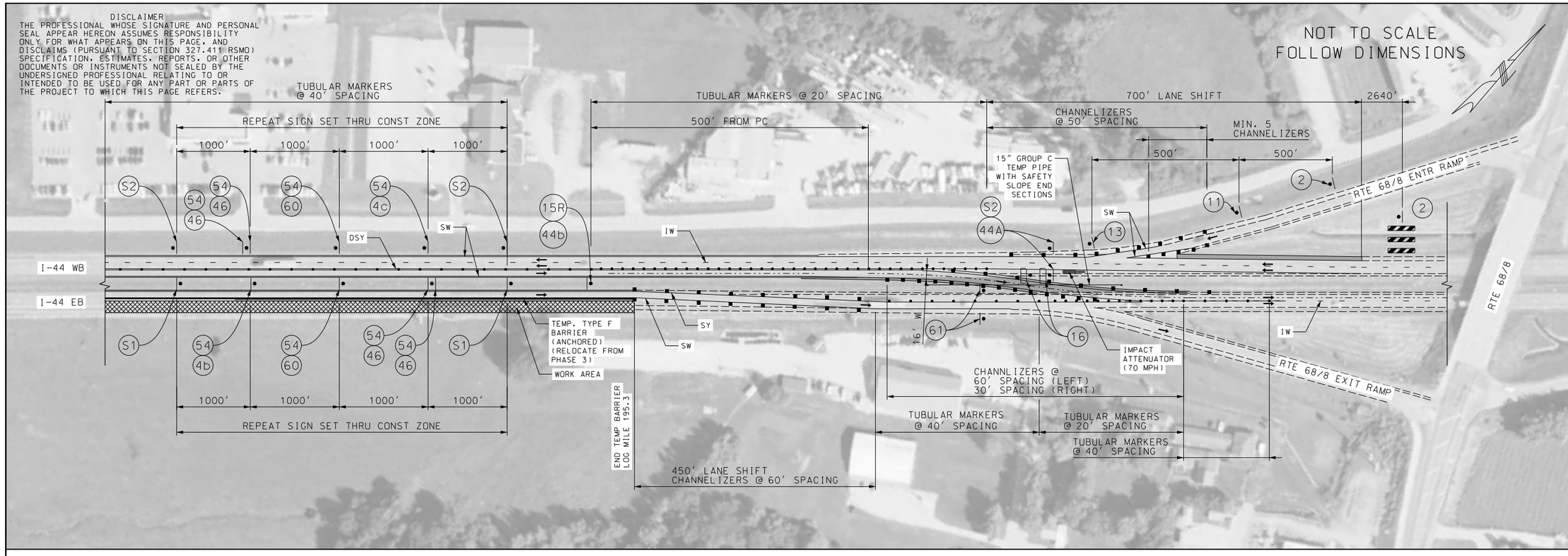
NOT TO SCALE
FOLLOW DIMENSIONS



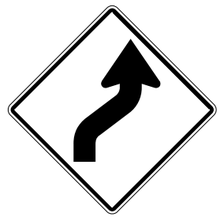
W020-1 (2)

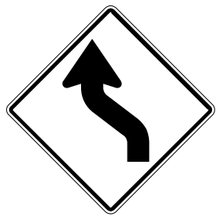
R2-1 (4b)

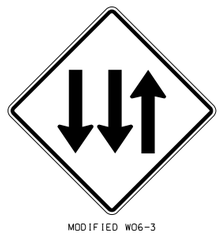
R2-1 (4c)

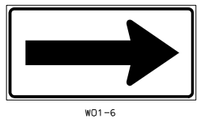
W03-4 (11)

R1-2 (13)


W01-4R (15R)


W01-4L (15L)


MODIFIED W06-3 (S1)


W01-6 (16)

W07-3a (44A)

W013-1 (44b)

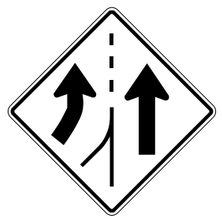
W013-1 (44c)

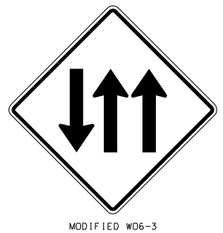
R4-1 (46)

E05-1 (49)

G020-5aP (54)

R4-9 (60)


W04-3L (61)


MODIFIED W06-3 (S2)

TRAFFIC CONTROL LEGEND

- SIGN (SINGLE SIDED)
- SIGN (DOUBLE SIDED)
- FLAGGER
- TUBULAR MARKERS
- CHANNELIZER
- BARRICADE
- CHANGEABLE MESSAGE BOARD
- ADVANCE WARNING RAIL SYSTEM (AWRS)

NOTES:
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2. SEE TYPICAL APPLICATION 39 FOR MEDIAN CROSSOVER DETAILS.
3. SEE TYPICAL APPLICATIONS 42 AND 44 FOR ADDITIONAL RAMP DETAILS.

TRAFFIC CONTROL
PHASE 4 DETAIL 4
SHEET 10 OF 15

STATE OF MISSOURI
JASON S. DOHRMANN
PE-2004017159
PROFESSIONAL ENGINEER

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

DATE PREPARED	
9/30/2021	
ROUTE	STATE
I-44	MO
DISTRICT	SHEET NO.
CD	27
COUNTY	
PHELPS	
JOB NO.	
J5I3572	
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	

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

DESCRIPTION	DATE

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

HR GREEN, INC.
16020 SWINGLEY RIDGE ROAD,
SUITE 205
ST. LOUIS, MISSOURI 63017
PHONE: (636) 519.0990
CORPORATE LICENSE #2002006608

EFFECTIVE 12-01-2017

SIGNS (902 SIGNAL SIGNS TABULATED ON D-37A SHEET)						PIPE POST ✳					STRUCTURAL STEEL: POSTS ✳						BACKING BARS 2" X ¾" BARS @ 2.55 LBS PER LIN FT				TOTAL	U CHANNEL POST	PERFORMED SQUARE STEEL TUBE POST: 2 IN										FOOTINGS		REMARKS AND OTHER REQUIRED ITEMS.
SIGN NO.	SIGN SIZE	LOG MILE	HORZ CLEAR IF NOT STD	LOCATION	SIGN DTL. SHT. NO.	PIPE SIZE	POST NO.1	POST NO.2	LBS PER FT	TOTAL ITEM NO. 9031220	POST DES NO.	POST NO.1	POST NO.2	POST NO.3	LBS PER FT	TOTAL	NO. EACH	LGTH IN.	TOTAL LF	TOTAL LBS	ITEM NO. 9031210	ITEM NO. 9031250	POST NO.1	POST NO.2	TOTAL ITEM NO. 9031270A	ANCHOR 7 GA. ITEM NO. 9031273	OMNI 7 GA. ITEM NO. 9031279	ANCHOR 12 GA. ITEM NO. 9031271	OMNI 12 GA. ITEM NO. 9031278	BREAK-AWAY ASSEMBLY ITEM NO. 9031241	EMBD ITEM NO. 9031010	BOLT DOWN ITEM NO. 9031020	
						IN.	LF	LF		LBS		LF	LF	LF		LBS	EACH	IN.	LF	LBS	LBS	LF	LF	LF							EACH	CU YDS	CU YDS	
11	120X84	183.803		EB 44 LT	D-31						#2	23.50	25.50		15	735.0					735												1.08		
12	144X96	183.803		EB 44 RT	D-31						#3	22.75	25.25		18	864.0					864												1.56		
13	120X84	184.929		EB 44 LT	D-31						#2	23.50	25.50		15	735.0					735												1.08		
14	144X96	184.929		EB 44 RT	D-31						#3	22.75	25.25		18	864.0					864												1.56		
15	120X84	185.795		EB 44 LT	D-31						#2	23.50	25.50		15	735.0					735												1.08		
16	144X96	185.795		EB 44 RT	D-31						#3	22.75	25.25		18	864.0					864												1.56		
17	96X84	0.047		E ON-RAMP LT	D-31						#2	21.25	25.00		15	693.8					694												1.08		
18	120X84	0.047		E ON-RAMP RT	D-31						#2	23.50	25.50		15	735.0					735												1.08		
SUBTOTAL													6225.8																			10.08		
TOTAL																					6226											10.1		

✳ BREAKAWAY ASSEMBLY IS INCIDENTAL FOR PIPE AND STRUCTURAL STEEL POSTS

ROUND PIPE POST AND FOOTING DATA TABLE						
NOM. SIZE (IN.)	WEIGHT LBS/FT	WEIGHT LBS/IN	STUB LENGTH	FOOTING DIA.	FOOTING DEPTH	CONCRETE C.Y.
2½	5.79	0.48	4'-3½"	12"	4'-6"	0.13
3	7.58	0.63	4'-3½"	12"	4'-6"	0.13
4	10.79	0.90	5'-3½"	18"	5'-6"	0.36

POST AND FOOTING DATA TABLE											
POST DES. NO.	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

STATE OF MISSOURI
JASON S. DOHRMANN
PE-2004017159
PROFESSIONAL ENGINEER

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

DATE PREPARED: 9/22/2021
ROUTE: I-44 | STATE: MO
DISTRICT: CD | SHEET NO.: 28
COUNTY: PHELPS
JOB NO.: J5I3572
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)

HR GREEN, INC.
16020 SWINGLEY RIDGE ROAD.
SUITE 205
ST. LOUIS, MISSOURI 63017
PHONE: (636) 519.0990
CORPORATE LICENSE #2002006608
HRGreen®

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SPECIAL STF-STRUCTURAL FLUORESCENT;
6.000" Radius, 1.000" Border, Black on, Orange;
Interstate 44 12.000" C; "THRU", E Mod; "TRAFFIC", E Mod; "LEFT LANE", E Mod; "NEXT 11 MILES", E Mod;
Table of letter and object lefts

11.500	T 57.750	H 67.250	R 77.750	U 88.250
11.500	T 45.500	R 55.000	A 65.000	F 77.000	F 86.500	I 96.000	C 100.625
6.000				
L 18.375	E 27.875	F 37.250	T 46.125	L 63.500	A 71.625	N 83.750	E 94.250
N 13.375	E 21.875	X 29.500	T 37.500	I 53.375	I 59.000	M 71.875	I 81.375	L 85.000	E 92.625	S 100.250

SIGN 11
LOG MILE
183.847
EB I-44
LEFT MEDIAN

SPECIAL STF-STRUCTURAL FLUORESCENT;
6.000" Radius, 1.000" Border, Black on, Orange;
Interstate 44 12.000" C; "ALL TRUCKS", E Mod; "AND EXITING", E Mod; "TRAFFIC", E Mod; "RIGHT LANE", E Mod; "NEXT 11 MILES", E Mod;
Table of letter and object lefts

7.500	A 38.750	L 50.875	L 60.375	T 77.750	R 87.250	U 97.750	C 108.250	K 118.375	S 128.500	
7.500	A 38.875	N 51.000	D 61.500	E 79.500	X 89.000	I 99.750	T 103.750	I 113.250	N 117.875	G 128.375
T 56.125	R 65.625	A 75.625	F 87.625	F 97.125	I 106.625	C 111.250				
6.000										
R 26.375	I 36.875	G 41.500	H 52.000	T 62.000	L 79.500	A 87.625	N 99.625	E 110.250		
N 25.375	E 33.875	X 41.500	T 49.500	I 65.375	I 71.000	M 83.875	I 93.375	L 97.000	E 104.625	S 112.250

SIGN 12
LOG MILE
183.847
EB I-44
RIGHT EDGE

TRAFFIC CONTROL
SIGN DETAILS
12 OF 15

D-31

STATE OF MISSOURI
JASON S. DOHRMANN
PE-2004017159
PROFESSIONAL ENGINEER

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

DATE PREPARED
9/22/2021

ROUTE	STATE
I-44	MO
DISTRICT	SHEET NO.
CD	29

COUNTY
PHELPS

JOB NO.
J5I3572

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)

MoDOT

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Interstate 44 12.000" C; "THRU", E Mod; "TRAFFIC", E Mod; "LEFT LANE", E Mod; "NEXT 10 MILES", E Mod;
Table of letter and object lefts

11.500	T 57.750	H 67.250	R 77.750	U 88.250
11.500	T 45.500	R 55.000	A 65.000	F 77.000	F 86.500	I 96.000	C 100.625
6.000				
L 18.375	E 27.875	F 37.250	T 46.125	L 63.500	A 71.625	N 83.750	E 94.250	
N 10.750	E 19.250	X 26.750	T 34.875	I 50.750	O 56.250	M 74.625	I 84.000	L 87.625	E 95.250	S 102.875

SIGN 13
LOG MILE
184.680
EB I-44
LEFT MEDIAN

SPECIAL STF-STRUCTURAL FLUORESCENT;
6.000" Radius, 1.000" Border, Black on, Orange;
Interstate 44 12.000" C; "ALL TRUCKS", E Mod; "AND EXITING", E Mod; "TRAFFIC", E Mod; "RIGHT LANE", E Mod; "NEXT 10 MILES", E Mod;
Table of letter and object lefts

7.500	A 38.750	L 50.875	L 60.375	T 77.750	R 87.250	U 97.750	C 108.250	K 118.375	S 128.500	
7.500	A 38.875	N 51.000	D 61.500	E 79.500	X 89.000	I 99.750	T 103.750	I 113.250	N 117.875	G 128.375
T 56.125	R 65.625	A 75.625	F 87.625	F 97.125	I 106.625	C 111.250				
6.000										
R 26.375	I 36.875	G 41.500	H 52.000	T 62.000	L 79.500	A 87.625	N 99.625	E 110.125		
N 22.750	E 31.250	X 38.750	T 46.875	I 62.750	O 68.250	M 86.625	I 96.000	L 99.625	E 107.250	S 114.875

SIGN 14
LOG MILE
184.680
EB I-44
RIGHT EDGE

TRAFFIC CONTROL
SIGN DETAILS
13 OF 15

D-31

STATE OF MISSOURI
JASON S. DOHRMANN
PE-2004017159
PROFESSIONAL ENGINEER

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

DATE PREPARED
9/22/2021

ROUTE	STATE
I-44	MO
DISTRICT	SHEET NO.
CD	30

COUNTY
PHELPS

JOB NO.
J5I3572

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)

HR GREEN, INC.
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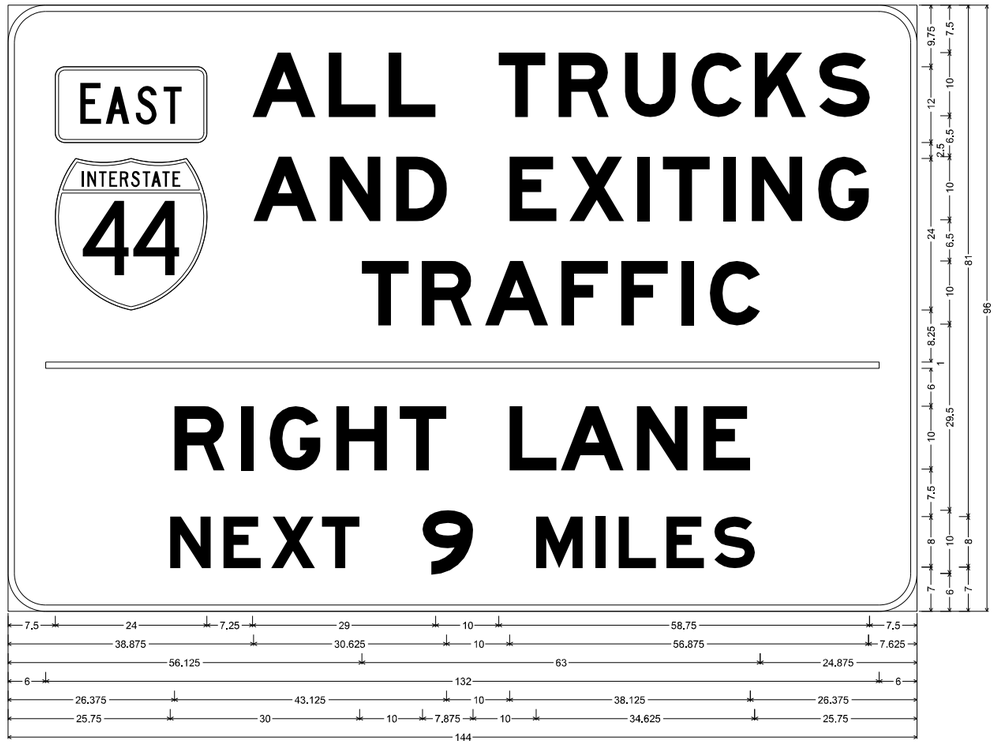
Table of letter and object lefts

11.500	T 57.750	H 67.250	R 77.750	U 88.250				
11.500	T 45.500	R 55.000	A 65.000	F 77.000	F 86.500	I 96.000	C 100.625	
6.000								
L 18.375	E 27.875	F 37.250	T 46.125	L 63.500	A 71.625	N 83.750	E 94.250	
N 13.750	E 22.125	X 29.750	T 37.750	9 53.750	M 71.625	I 81.125	L 84.750	E 92.375	S 99.875

SIGN 15
LOG MILE
185.793
EB I-44
LEFT MEDIAN



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Interstate 44 12.000" C; "ALL TRUCKS", E Mod; "AND EXITING", E Mod; "TRAFFIC", E Mod; "RIGHT LANE", E Mod; "NEXT 9 MILES", E Mod;
Table of letter and object lefts

7.500	A 38.750	L 50.875	L 60.375	T 77.750	R 87.250	U 97.750	C 108.250	K 118.375	S 128.500		
7.500	A 38.875	N 51.000	D 61.500	E 79.500	X 89.000	I 99.750	T 103.750	I 113.250	N 117.875	G 128.375	
T 56.125	R 65.625	A 75.625	F 87.625	F 97.125	I 106.625	C 111.250					
6.000											
R 26.375	I 36.875	G 41.500	H 52.000	T 62.000	L 79.500	A 87.625	N 99.625	E 110.125			
N 25.750	E 34.125	X 41.750	T 49.750	9 65.750	M 83.625	I 93.125	L 96.750	E 104.375	S 111.875		

SIGN 16
LOG MILE
185.793
EB I-44
RIGHT EDGE

TRAFFIC CONTROL
SIGN DETAILS
14 OF 15

D-31

STATE OF MISSOURI
JASON S. DOHRMANN
PE-2004017159
PROFESSIONAL ENGINEER

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

DATE PREPARED
9/22/2021

ROUTE	STATE
I-44	MO
DISTRICT	SHEET NO.
CD	31

COUNTY
PHELPS

JOB NO.
J5I3572

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)

HR GREEN, INC.
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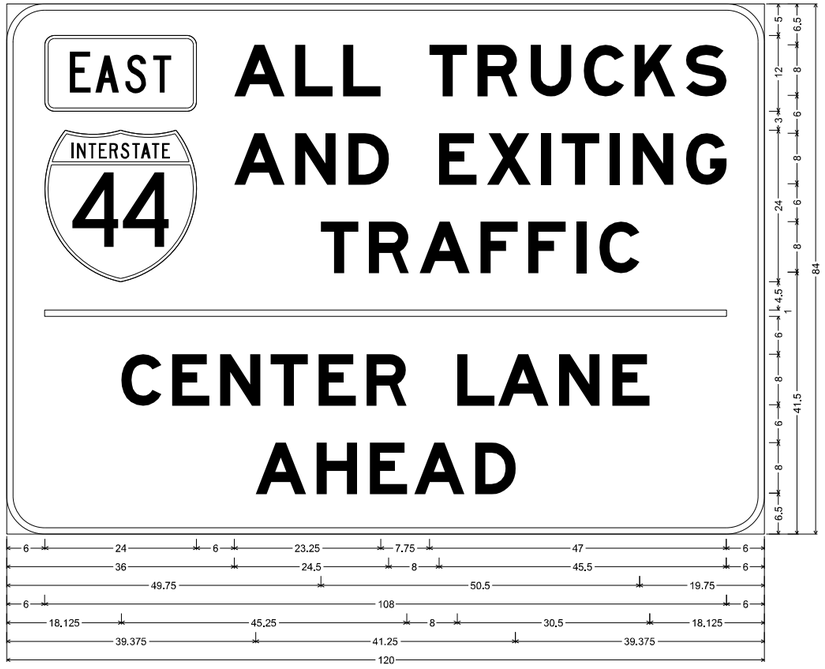
SPECIAL STF-STRUCTURAL FLUORESCENT;
6.000" Radius, 1.000" Border, Black on, Orange;
Interstate 44 12.000" C; "THRU", E Mod; "TRAFFIC", E Mod; "LEFT LANE", E Mod; "AHEAD", E Mod;
Table of letter and object lefts

7.500	T 47.875	H 55.375	R 63.875	U 72.250
7.500	T 38.000	R 45.625	A 53.625	F 63.250	F 70.875	I 78.500	C 82.125
6.000				
L 14.625	E 22.250	F 29.875	T 36.875	L 50.875	A 57.375	N 67.000	E 75.375
A 27.375	H 37.125	E 45.500	A 52.500	D 62.250			

SIGN 17
LOG MILE
0.052
ENTR. RAMP
LEFT SLOPE



SPECIAL STF-STRUCTURAL FLUORESCENT;
6.000" Radius, 1.000" Border, Black on, Orange;
Interstate 44 12.000" C; "ALL TRUCKS", E Mod; "AND EXITING", E Mod; "TRAFFIC", E Mod; "CENTER LANE", E Mod; "AHEAD", E Mod;
Table of letter and object lefts

6.000	A 36.000	L 45.750	L 53.250	T 67.000	R 74.500	U 83.000	C 91.375	K 99.375	S 107.625	
6.000	A 36.000	N 45.625	D 54.125	E 68.500	X 76.125	I 84.625	T 87.875	I 95.500	N 99.125	G 107.625
T 49.750	R 57.375	A 65.375	F 75.000	F 82.625	I 90.250	C 93.875				
6.000										
C 18.125	E 26.125	N 33.750	T 41.750	E 49.375	R 57.000	L 71.375	A 77.875	N 87.500	E 95.875	
A 39.375	H 49.125	E 57.500	A 64.500	D 74.250						

SIGN 18
LOG MILE
0.052
ENTR. RAMP
RIGHT EDGE

TRAFFIC CONTROL
SIGN DETAILS
15 OF 15

D-31

STATE OF MISSOURI
JASON S. DOHRMANN
PE-2004017159
PROFESSIONAL ENGINEER

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

DATE PREPARED
9/22/2021

ROUTE	STATE
I-44	MO
DISTRICT	SHEET NO.
CD	32

COUNTY
PHELPS

JOB NO.
J5I3572

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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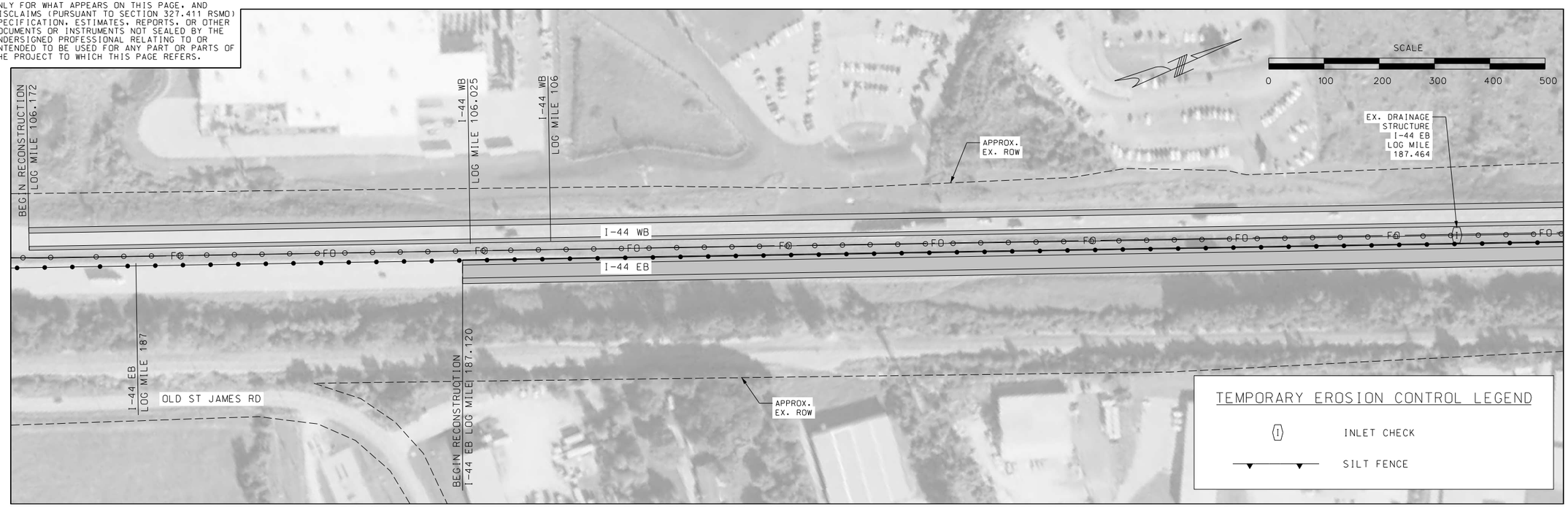

EROSION CONTROL
SHEET 1 OF 9

JASON S. DOHRMANN
PE-2004017159
STATE OF MISSOURI
PROFESSIONAL ENGINEER

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

DATE PREPARED
9/22/2021

ROUTE	STATE
I-44	MO
DISTRICT	SHEET NO.
CD	33

COUNTY
PHELPS

JOB NO.
J5I3572

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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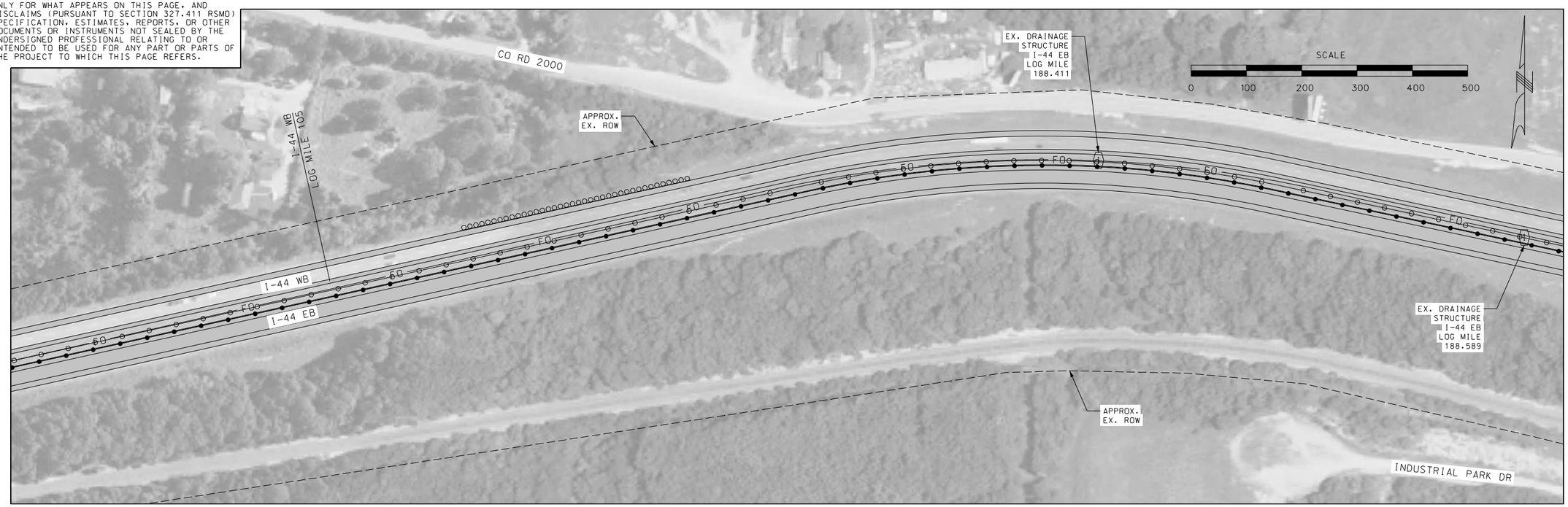

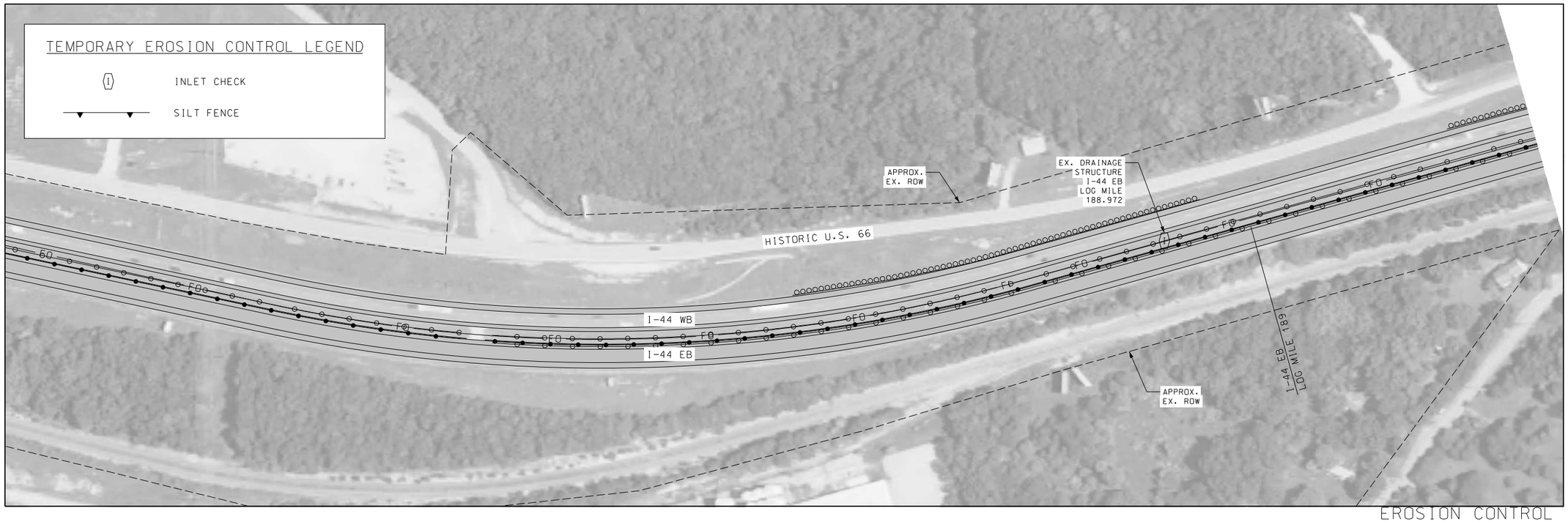

EROSION CONTROL
SHEET 2 OF 9

STATE OF MISSOURI
JASON S. DOHRMANN
PE-2004017159
PROFESSIONAL ENGINEER

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

DATE PREPARED 9/22/2021
ROUTE I-44 | STATE MO
DISTRICT CD | SHEET NO. 34
COUNTY PHELPS
JOB NO. J5I3572
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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EROSION CONTROL
SHEET 3 OF 9

STATE OF MISSOURI
JASON S. DOHRMANN
PE-2004017159
PROFESSIONAL ENGINEER

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

DATE PREPARED	
9/22/2021	
ROUTE	STATE
I-44	MO
DISTRICT	SHEET NO.
CD	35
COUNTY	
PHELPS	
JOB NO.	
J5I3572	
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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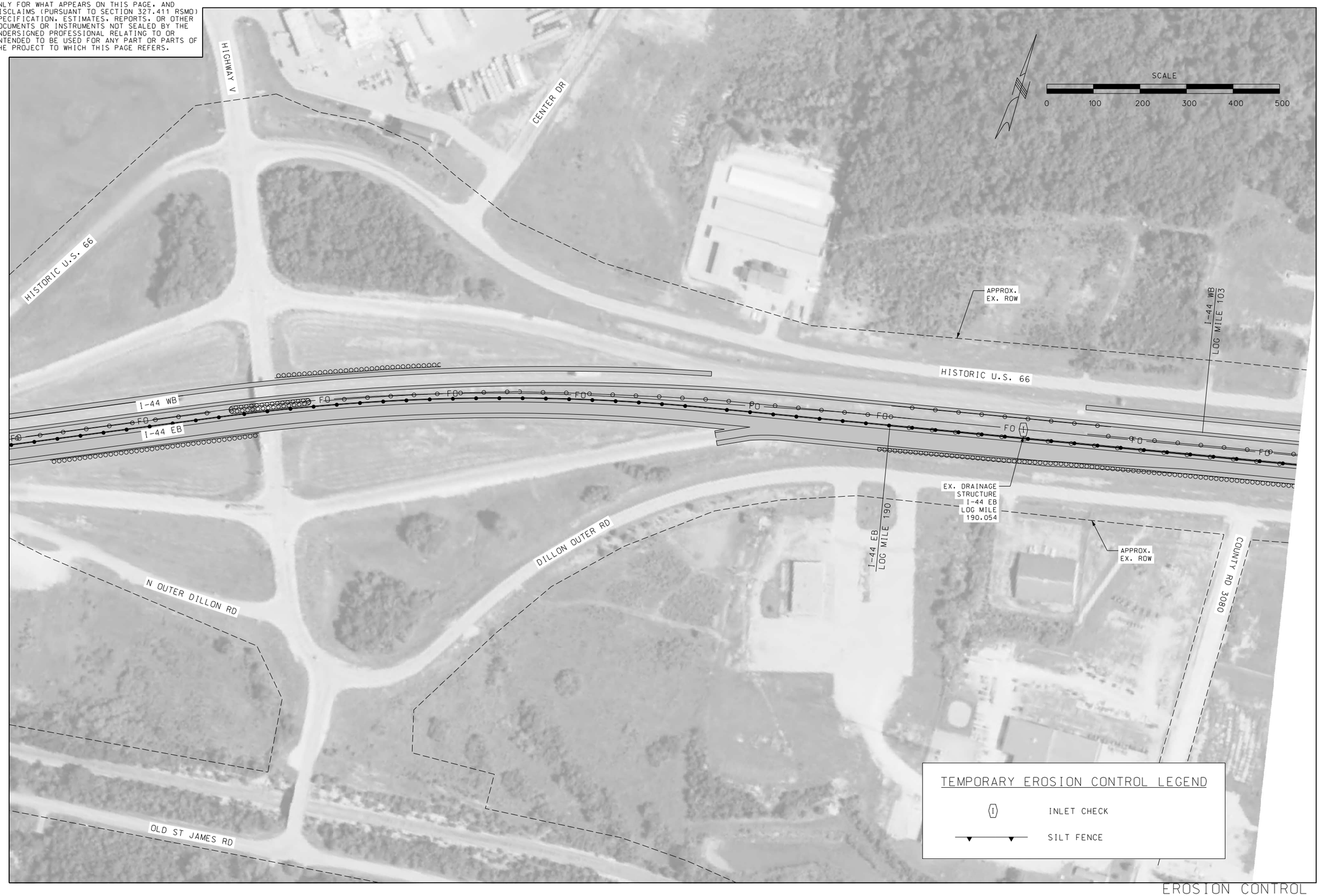

EROSION CONTROL
SHEET 4 OF 9

STATE OF MISSOURI
JASON S. DOHRMANN
PE-2004017159
PROFESSIONAL ENGINEER

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

DATE PREPARED
9/22/2021

ROUTE	STATE
I-44	MO
DISTRICT	SHEET NO.
CD	36

COUNTY
PHELPS

JOB NO.
J5I3572

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DESCRIPTION	DATE

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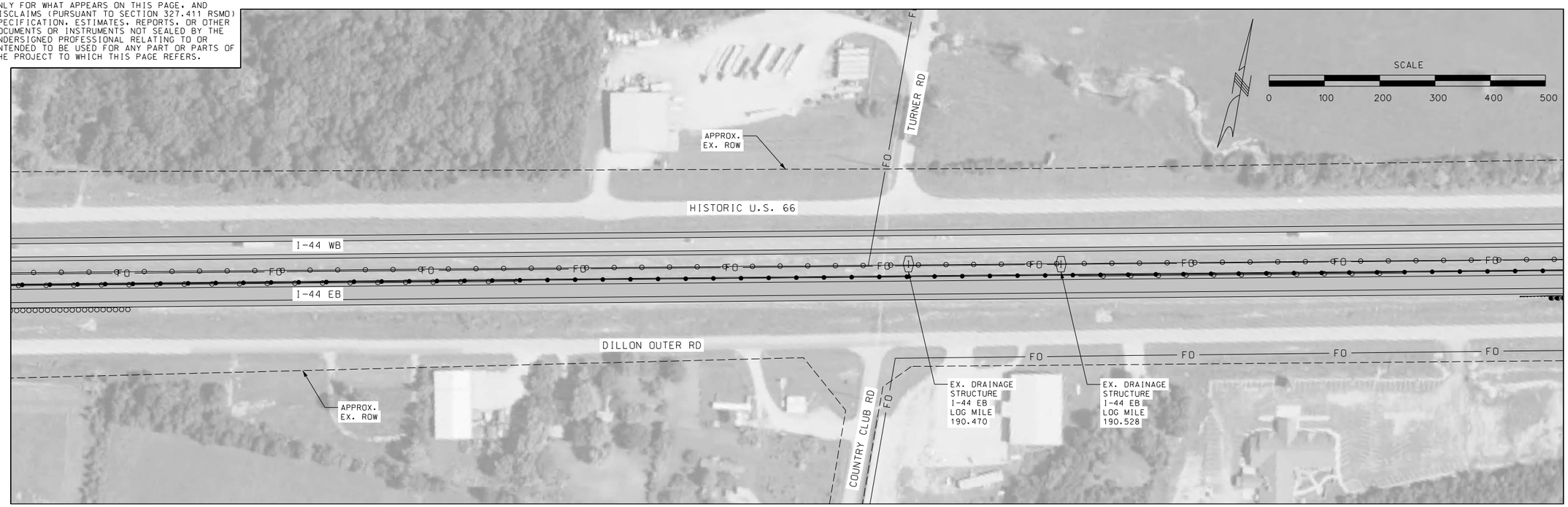

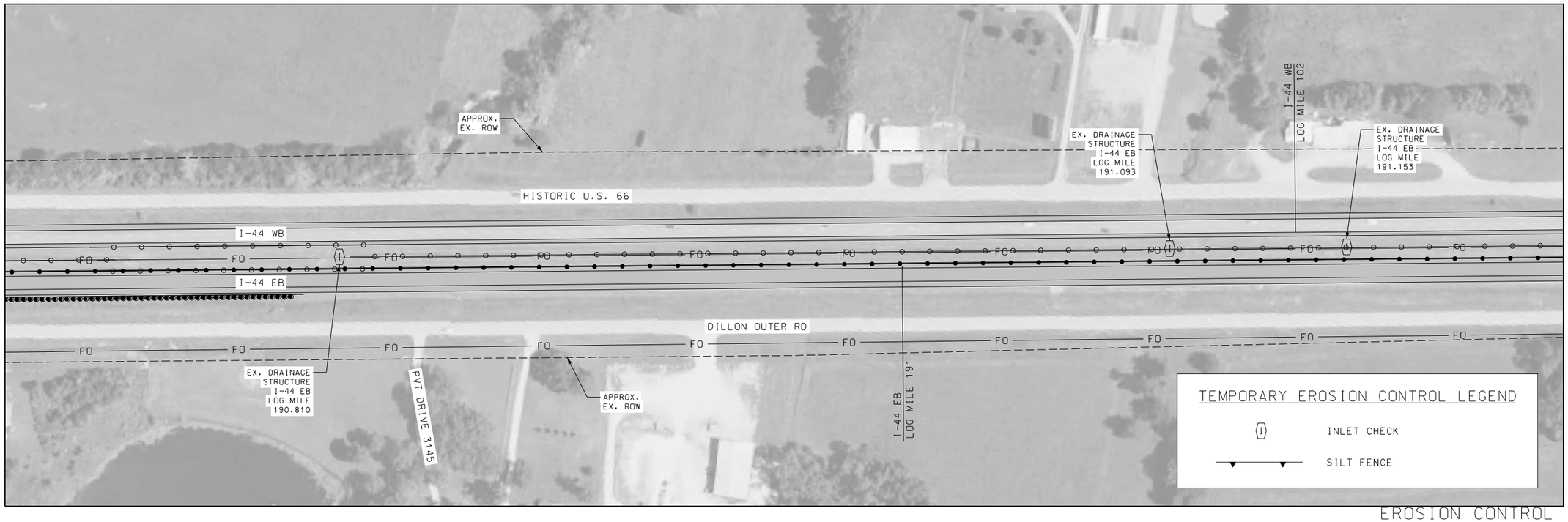

EROSION CONTROL
SHEET 5 OF 9

STATE OF MISSOURI
JASON S. DOHRMANN
PE-2004017159
PROFESSIONAL ENGINEER

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

DATE PREPARED
9/22/2021

ROUTE	STATE
I-44	MO
DISTRICT	SHEET NO.
CD	37

COUNTY
PHELPS

JOB NO.
J5I3572

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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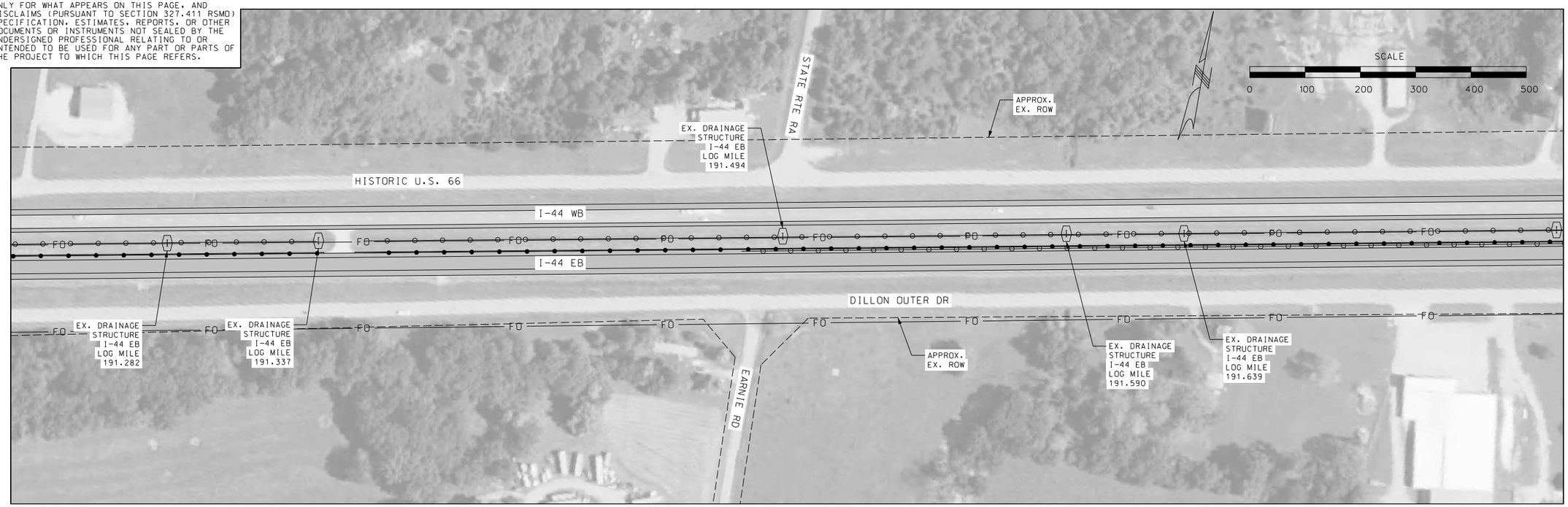

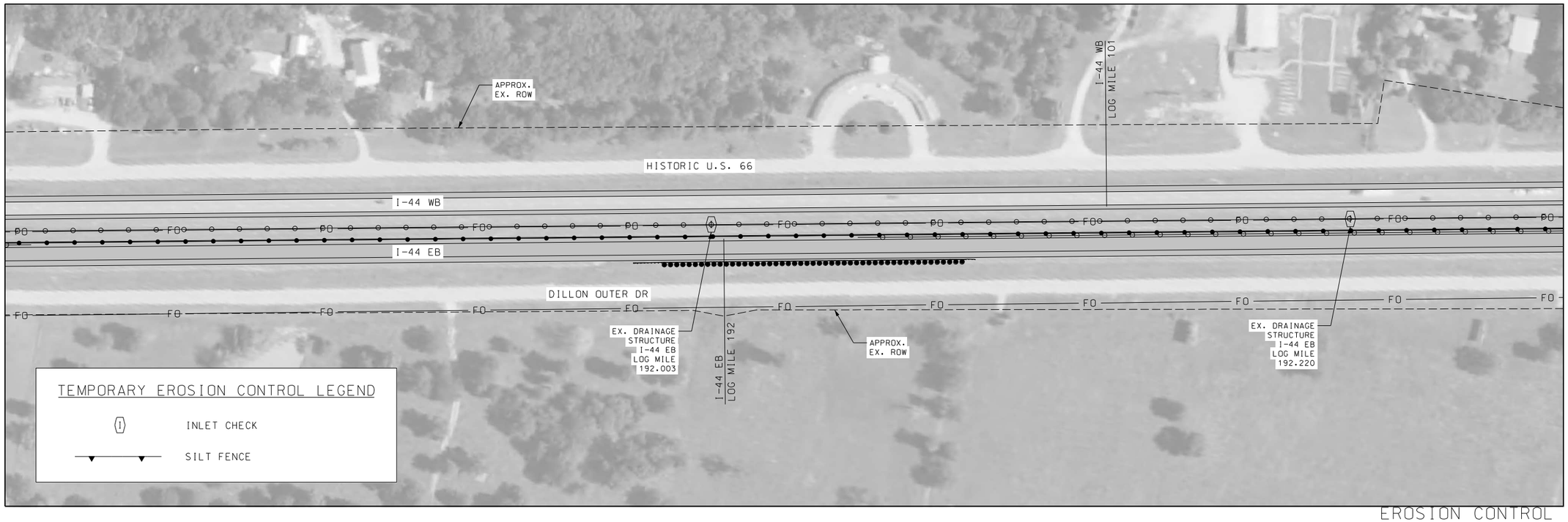

EROSION CONTROL
SHEET 6 OF 9

JASON S. DOHRMANN
PE-2004017159
STATE OF MISSOURI
PROFESSIONAL ENGINEER

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

DATE PREPARED
9/22/2021

ROUTE	STATE
I-44	MO
DISTRICT	SHEET NO.
CD	38

COUNTY
PHELPS

JOB NO.
J5I3572

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

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

DESCRIPTION	DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
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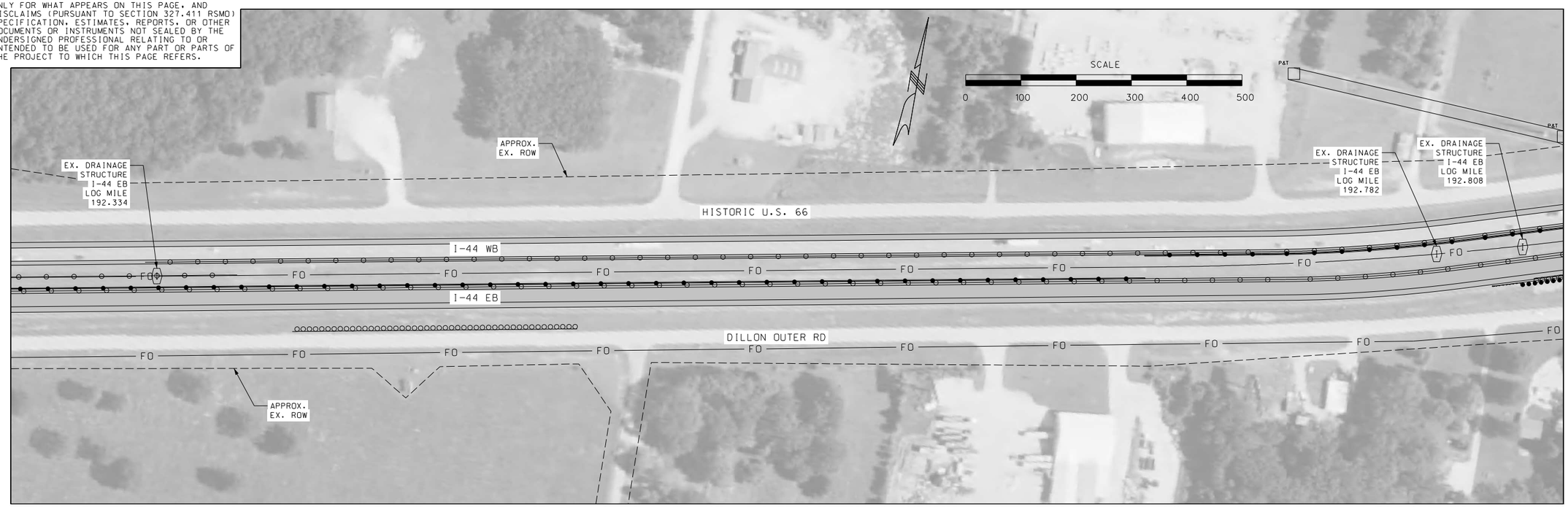

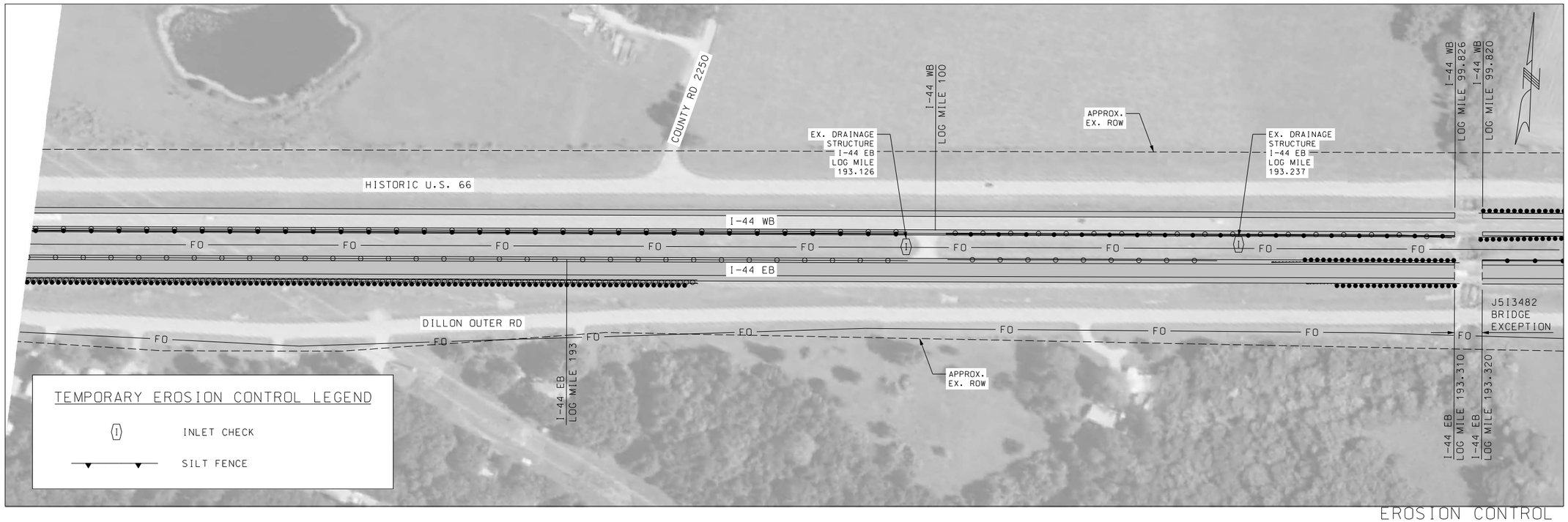

EROSION CONTROL
SHEET 7 OF 9

STATE OF MISSOURI
JASON S. DOHRMANN
PE-2004017159
PROFESSIONAL ENGINEER

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

DATE PREPARED 9/22/2021

ROUTE	STATE
I-44	MO
DISTRICT	SHEET NO.
CD	39

COUNTY PHELPS
JOB NO. J5I3572
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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JEFFERSON CITY, MO 65102
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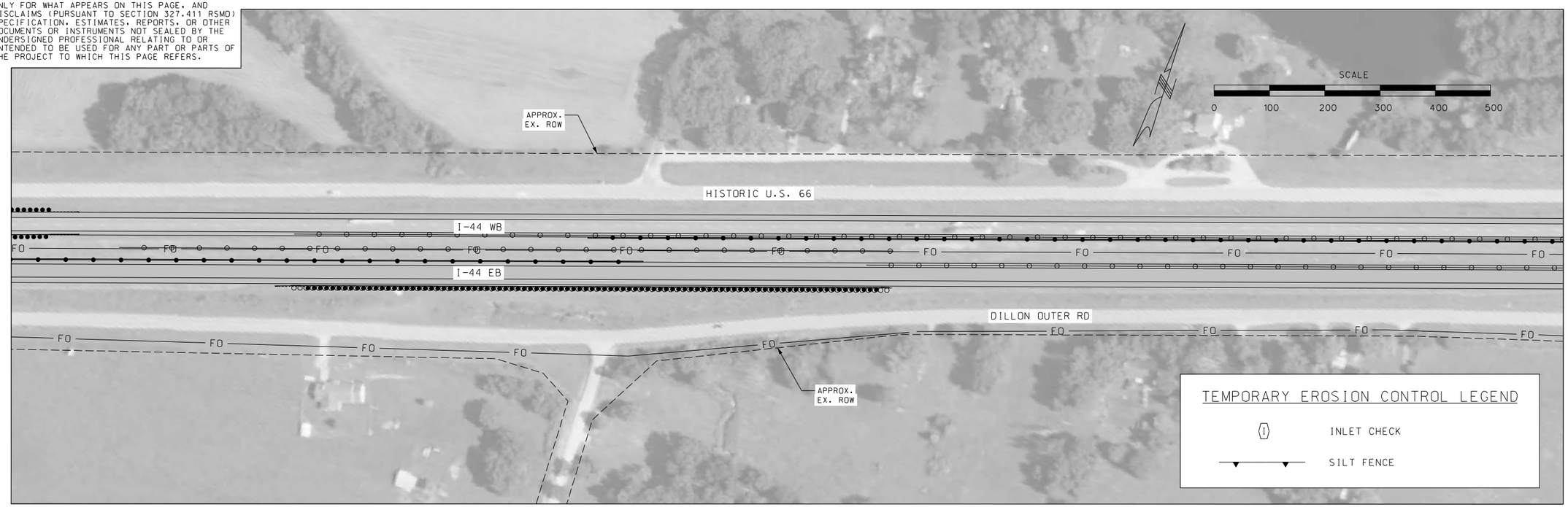
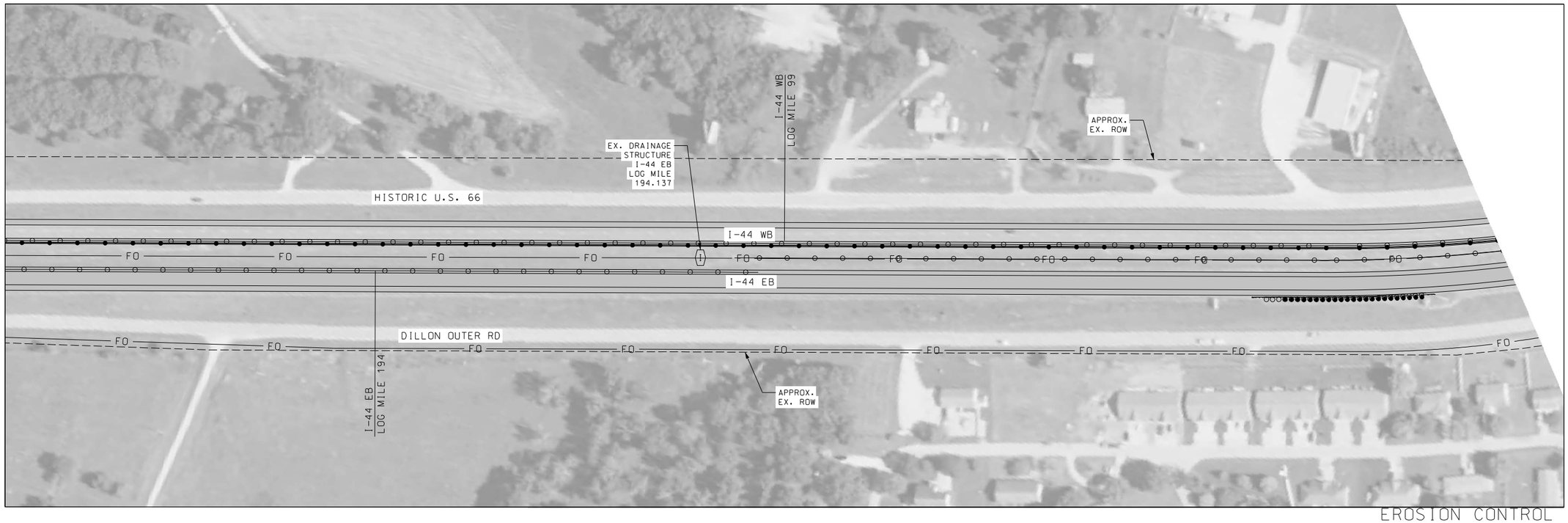


TEMPORARY EROSION CONTROL LEGEND

(I) INLET CHECK

SILT FENCE



EROSION CONTROL
SHEET 8 OF 9

JASON S. DOHRMANN PE-2004017159
STATE OF MISSOURI PROFESSIONAL ENGINEER

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

DATE PREPARED	
9/22/2021	
ROUTE	STATE
I-44	MO
DISTRICT	SHEET NO.
CD	40
COUNTY	
PHELPS	
JOB NO.	
J5I3572	
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	

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DESCRIPTION	DATE

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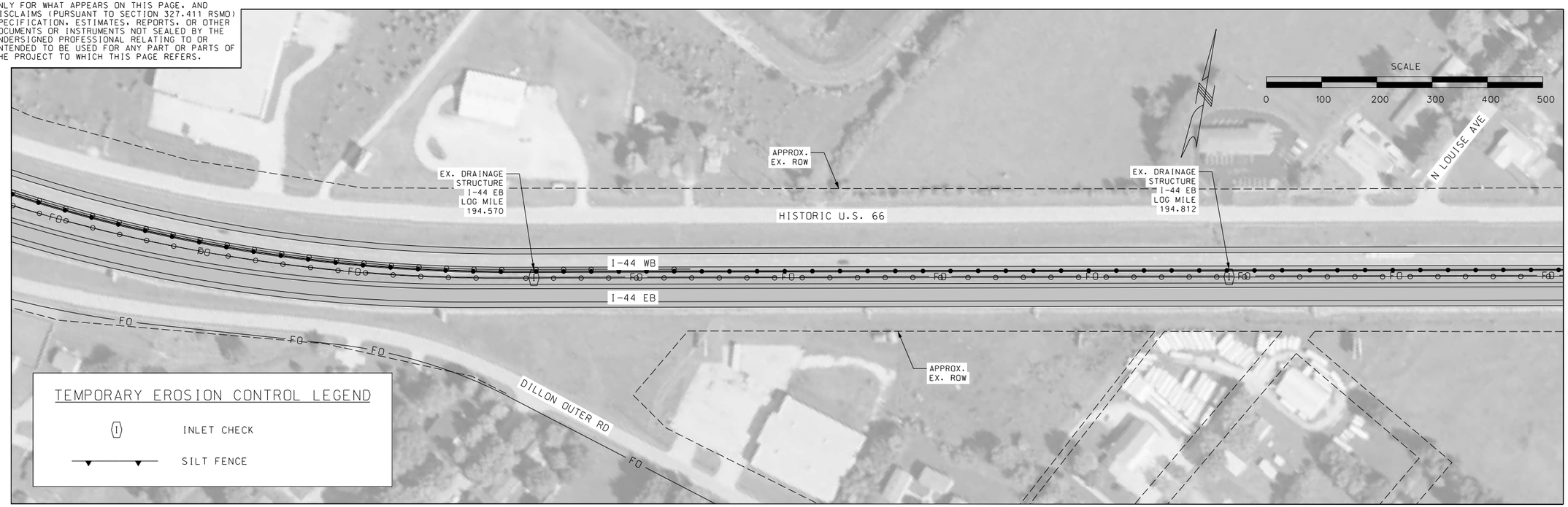

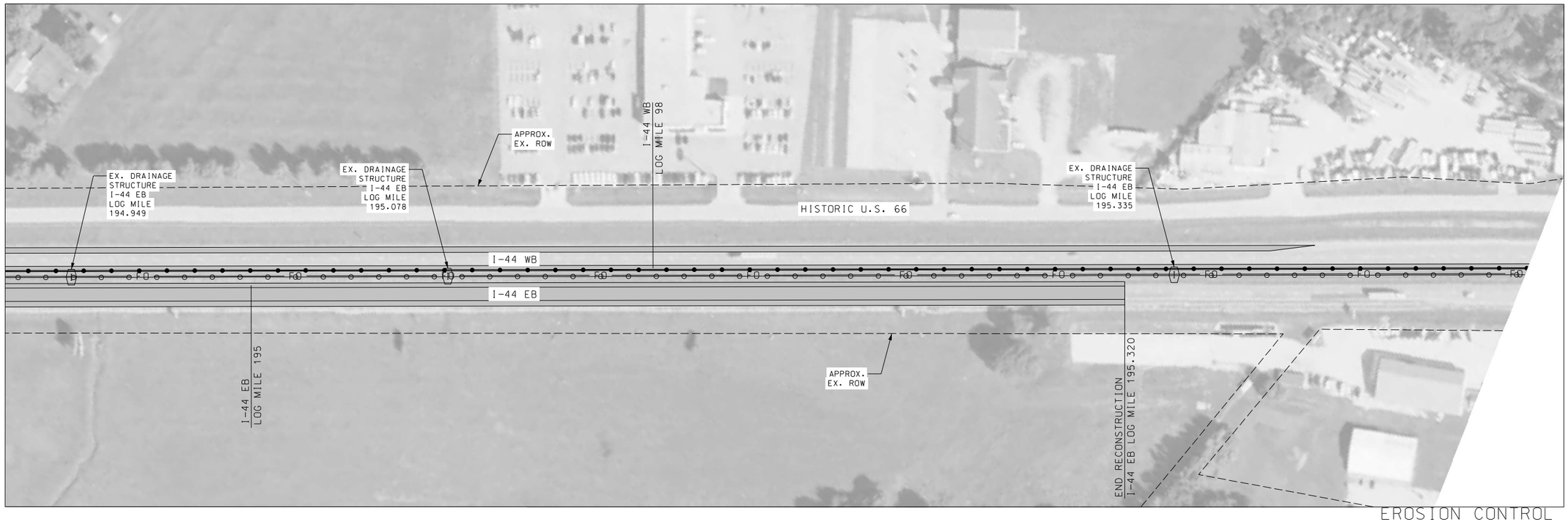

EROSION CONTROL
SHEET 9 OF 9

JASON S. DOHRMANN
PE-2004017159
STATE OF MISSOURI
PROFESSIONAL ENGINEER

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

DATE PREPARED 9/22/2021
ROUTE I-44 | STATE MO
DISTRICT CD | SHEET NO. 41
COUNTY PHELPS
JOB NO. J5I3572
CONTRACT ID.
PROJECT NO.
BRIDGE NO.

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DESCRIPTION	DATE

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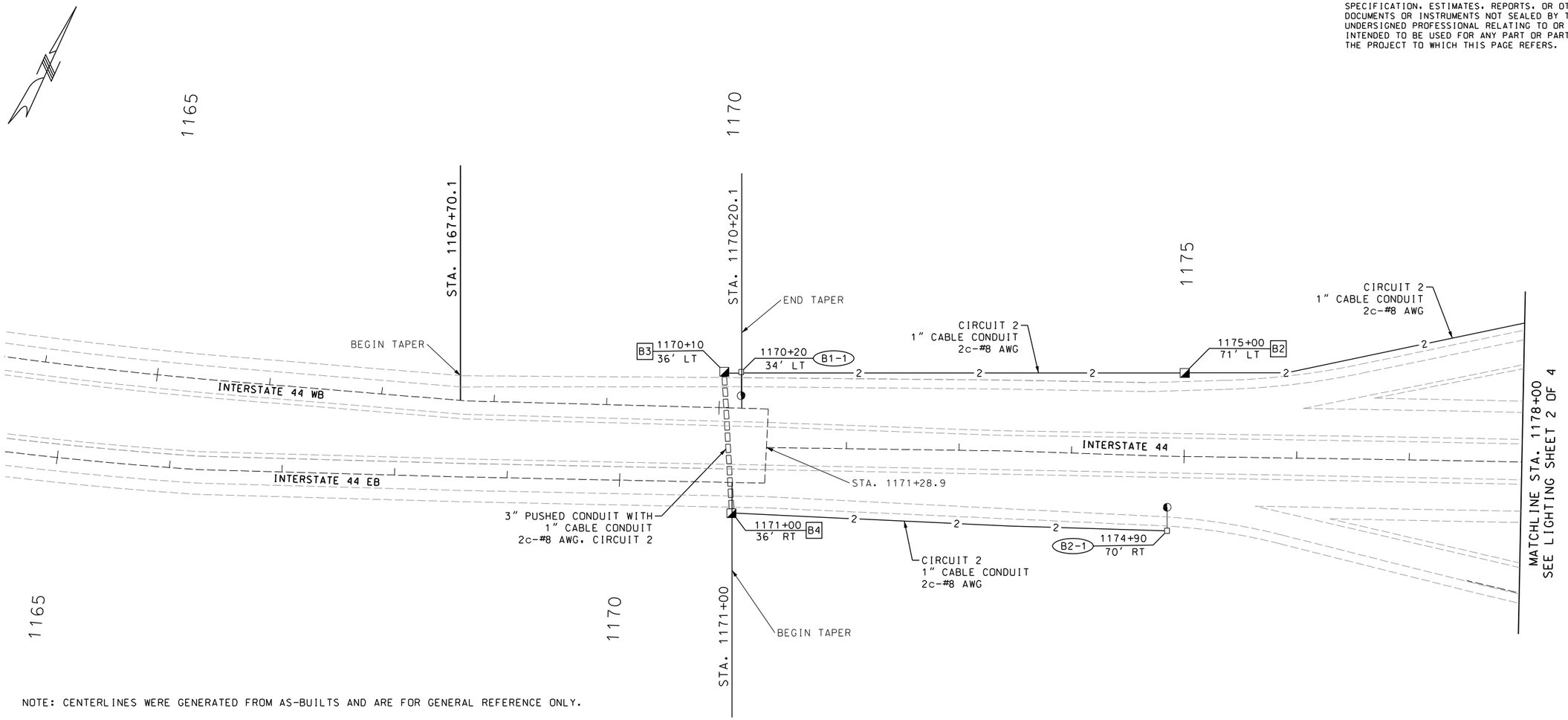

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LIGHTING LEGEND

LED-C LUMINAIRE	PULL BOX, TYPE I DRAIN, CONCRETE
BRACKET ARM	PULL BOX, TYPE A, CONCRETE DOUBLE
45 FT BOLT DOWN LIGHT STANDARD	PULL BOX, TYPE I DRAIN, PREFORMED
	PULL BOX, TYPE II DRAIN, PREFORMED
EXISTING LIGHT STANDARD AND LUMINAIRE	EXISTING PULL BOX, TYPE I DRAIN, CONCRETE
	EXISTING PULL BOX, TYPE II DRAIN, CONCRETE
	EXISTING PULL BOX, TYPE I DRAIN, PREFORMED
LED-A LUMINAIRE	EXISTING PULL BOX, TYPE II DRAIN, PREFORMED
LED-B LUMINAIRE	RIGID CONDUIT IN TRENCH
SERVICE POLE OR PEDESTAL AND POWER SUPPLY	CAPPED RIGID CONDUIT
TRANSFORMER OR SUBSTATION POLE	RIGID CONDUIT PUSHED
BASE MOUNTED LIGHTING CONTROL STATION WITH PAD	EXISTING RIGID CONDUIT
	RIGID CONDUIT ON BRIDGE
EXISTING BASE MOUNTED CONTROL STATION	CABLE CONDUIT WITH CIRCUIT NUMBER
GROUND CONNECTION	EXISTING CABLE CONDUIT

SCALE
0 50 100 150

LIGHTING SHEET
SHEET 1 OF 4

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

STATE OF MISSOURI
PAUL JOSEPH KRONLAGE
NUMBER EN 023328
REGISTERED PROFESSIONAL ENGINEER
THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED 9/8/2021
ROUTE I-44 | STATE MO
DISTRICT CD | SHEET NO. 42
COUNTY PHELPS
JOB NO. J5I3572
CONTRACT ID.
PROJECT NO.
BRIDGE NO.

REV.	DESCRIPTION	DATE

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

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

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NORTH OUTER ROAD

EXIST. CIRCUIT 2
3" Ø RIGID CONDUIT
1" CABLE CONDUIT
2c-#8 AWG

EXIST. CIRCUIT 2
1" CABLE CONDUIT
2c-#8 AWG

EXIST. BASE MOUNTED CONTROL STATION
240 VOLT - 4 CIRCUIT
STA. 11+40 RAMP 3 - 40' RT

EXIST. CIRCUIT 1,2,3,4
2-3" Ø RIGID COND
4-1" CABLE COND
4-2c-#8 AWG

B EXIST. (UIP) 51

A EXIST. (UIP) 50

EXIST. 2" Ø RIGID CONDUIT
3-1c-#2 AWG

EXIST. POWER SUPPLY ASSEMBLY
240 VOLT SERVICE

EXTEND CIRCUIT 1
1" CABLE CONDUIT
2c-#8 AWG

EXTEND CIRCUIT 2
1" CABLE CONDUIT
2c-#8 AWG

1180+00
168' LT B1

RAMP 1

EXIST. CIRCUIT 3,4
3" Ø RIGID COND
2-1" CABLE COND
2-2c-#8 AWG

52

C 3,4

EXIST. CIRCUIT 1
1" CABLE CONDUIT
2c-#8 AWG

EXIST. CIRCUIT 3,4
2-1" CABLE COND
2-2c-#8 AWG

53

1189+00
149' LT A1

RAMP 3

1180

1185

1190

EXIST. CIRCUIT 3,4
3" Ø RIGID COND
2-1" CABLE COND
2-2c-#8 AWG

MATCHLINE STA. 1178+00
SEE LIGHTING SHEET 1 OF 4

STA. 1182+42.4

INTERSTATE 44

INTERSTATE 44 WB

EXIST. CONDUIT MOUNTED
EXTERNALLY ON BRIDGE STRUCTURE

INTERSTATE 44 EB

ROUTE V

MATCHLINE STA. 1191+00
SEE LIGHTING SHEET 3 OF 4

EXIST. CIRCUIT 3
1" CABLE COND
2c-#8 AWG

EXIST. CIRCUIT 4
1" CABLE COND
2c-#8 AWG

54

EXIST. CIRCUIT 3,4
2-1" CABLE COND
2-2c-#8 AWG

3,4

56

55

D

57

4

RAMP 2

RAMP 4

EXIST. CIRCUIT 4
3" Ø RIGID CONDUIT
1" CABLE CONDUIT
2c-#8 AWG

58

E

EXIST. CIRCUIT 4
1" CABLE COND
2c-#8 AWG

F

59

EXIST. CIRCUIT 4
3" Ø RIGID CONDUIT
1" CABLE CONDUIT
2c-#8 AWG

NORTH OUTER DILLON ROAD

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LIGHTING LEGEND

- LED-C LUMINAIRE
- BRACKET ARM
- 45 FT BOLT DOWN LIGHT STANDARD
- EXISTING LIGHT STANDARD AND LUMINAIRE
- LED-A LUMINAIRE
- LED-B LUMINAIRE
- SERVICE POLE OR PEDESTAL AND POWER SUPPLY
- TRANSFORMER OR SUBSTATION POLE
- BASE MOUNTED LIGHTING CONTROL STATION WITH PAD
- EXISTING BASE MOUNTED CONTROL STATION
- GROUND CONNECTION
- PULL BOX, TYPE I DRAIN, CONCRETE
- PULL BOX, TYPE A, CONCRETE DOUBLE
- PULL BOX, TYPE I DRAIN, PREFORMED
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- EXISTING PULL BOX, TYPE I DRAIN, CONCRETE
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- EXISTING PULL BOX, TYPE I DRAIN, PREFORMED
- EXISTING PULL BOX, TYPE II DRAIN, PREFORMED
- RIGID CONDUIT IN TRENCH
- CAPPED RIGID CONDUIT
- RIGID CONDUIT PUSHED
- EXISTING RIGID CONDUIT
- RIGID CONDUIT ON BRIDGE
- CABLE CONDUIT WITH CIRCUIT NUMBER
- EXISTING CABLE CONDUIT

SCALE
0 50 100 150

LIGHTING SHEET
SHEET 2 OF 4

STATE OF MISSOURI
PAUL JOSEPH KRONLAGE
NUMBER EN 023328
REGISTERED PROFESSIONAL ENGINEER
THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED
9/8/2021

ROUTE	STATE
I-44	MO
DISTRICT	SHEET NO.
CD	43

COUNTY
PHELPS

JOB NO.
J5I3572

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

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DATE	DESCRIPTION	REV.

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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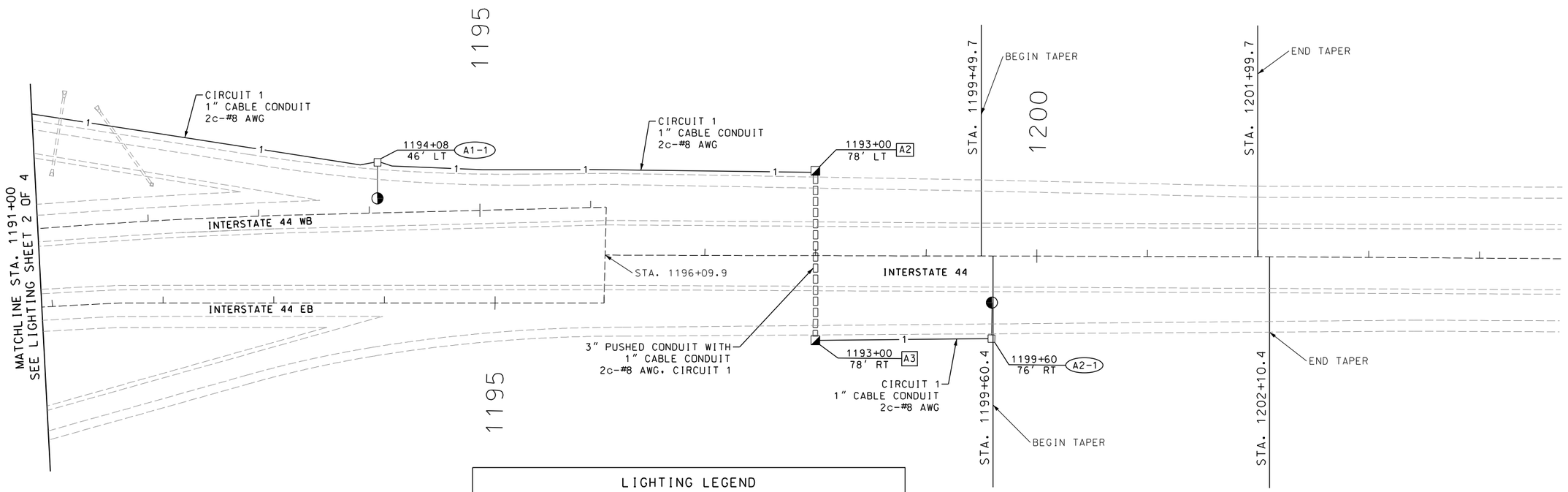

LIGHTING LEGEND

LED-C LUMINAIRE	PULL BOX, TYPE I DRAIN, CONCRETE
BRACKET ARM	PULL BOX, TYPE A, CONCRETE DOUBLE
45 FT BOLT DOWN LIGHT STANDARD	PULL BOX, TYPE I DRAIN, PREFORMED
	PULL BOX, TYPE II DRAIN, PREFORMED
EXISTING LIGHT STANDARD AND LUMINAIRE	EXISTING PULL BOX, TYPE I DRAIN, CONCRETE
	EXISTING PULL BOX, TYPE II DRAIN, CONCRETE
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LED-A LUMINAIRE	EXISTING PULL BOX, TYPE II DRAIN, PREFORMED
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SERVICE POLE OR PEDESTAL AND POWER SUPPLY	CAPPED RIGID CONDUIT
TRANSFORMER OR SUBSTATION POLE	RIGID CONDUIT PUSHED
BASE MOUNTED LIGHTING CONTROL STATION WITH PAD	EXISTING RIGID CONDUIT
EXISTING BASE MOUNTED CONTROL STATION	RIGID CONDUIT ON BRIDGE
	CABLE CONDUIT WITH CIRCUIT NUMBER
GROUND CONNECTION	EXISTING CABLE CONDUIT

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SCALE
0 50 100 150

LIGHTING SHEET
SHEET 3 OF 4

STATE OF MISSOURI
PAUL JOSEPH KRONLAGE
NUMBER EN 023328
REGISTERED PROFESSIONAL ENGINEER
THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED 9/8/2021
ROUTE I-44 | STATE MO
DISTRICT CD | SHEET NO. 44
COUNTY PHELPS
JOB NO. J5I3572
CONTRACT ID.
PROJECT NO.
BRIDGE NO.

DESCRIPTION | DATE | REV.

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EFK•Moen
Civil Engineering Design
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Missouri Certificate of Authority: 001578

POLES, ARMS AND LUMINAIRES

LIGHTING SHEET NO.	LUMIN. POLE NO.	STATION	OFFSET	LOCATION	30′ POLE AT	30′ POLE B	45′ POLE TYPE AT D1	45′ POLE TYPE AT D2	45′ POLE TYPE AT D3	45′ POLE TYPE AT D4	45′ POLE TYPE AT D5	45′ POLE TYPE B D3	45′ POLE TYPE MB D3	RELOC. POLE	LUMINAIRE LED-A	LUMINAIRE LED-B	LUMINAIRE LED-C	LUMINAIRE 150W HP SODIUM (UNDERPASS)	BRACKET ARM 4′	BRACKET ARM 6′	BRACKET ARM 8′	BRACKET ARM 10′	BRACKET ARM 12′	BRACKET ARM 15′	CABLE, 10 AWG 1 CONDUCTOR POLE AND BRACKET	POLE FOUNDATION 30′ POLE	POLE FOUNDATION 45′ POLE
1	B1-1	1170+20	34′ LT	I-44WB				1								1								1	130		1
1	B2-1	1174+90	70′ RT	I-44				1								1								1	130		1
3	A1-1	1194+08	46′ LT	I-44WB				1								1								1	130		1
3	A2-1	1199+60	76′ RT	I-44				1								1								1	130		1
				TOTALS:				4								4								4	520		4

1″ CABLE CONDUIT 2 CONDUCTORS & 1 BARE NEUTRAL

LIGHTING SHEET	CONT.	CIRCUIT	FROM	TO	CABLE #8 AWG FEET	CABLE #6 AWG FEET	CABLE #2 AWG 1 COND. FEET
1-2		2	EX. B	B1-1	1381		
1		2	B1-1	B2-1	571		
2-3		1	EX. A	A1-1	956		
3		1	A1-1	A2-1	732		
				SUBTOTALS:	3640		
				5% FOR SNAKING	3822		
				PAY TOTALS:	3830		

TRENCHING

TYPE I	TYPE II	TYPE III
1361		
411		
940		
556		
TRENCHING SUBTOTALS: 3268		
TRENCHING PAY TOTALS: 3268		

POWER SUPPLY ASSEMBLY

LIGHTING SHEET	STATION	OFFSET	LOCATION	TYPE 1 (POLE) LT ONLY 240 V	TYPE 1 (POLE) LT+ SIG 240/120V	TYPE 1 (POLE) LT ONLY 480V	TYPE 1 (POLE) LT+ SIG 480/120V	TYPE 2 (PED) LT ONLY 240 V	TYPE 2 (PED) LT+ SIG 240/120V	TYPE 2 (PED) LT ONLY 480V	TYPE 2 (PED) LT+ SIG 480/120V
			TOTALS:		USE EXIST.						

POWER SOURCE

LIGHTING SHEET	STATION	OFFSET	LOCATION	P.S.A. DIRECTION TO FACE METER	P.S.A. BRKR LIGHT	P.S.A. BRKR AMPS SIGNAL	CIR

PULL BOXES

LIGHTING SHEET	STATION	OFFSET	LOCATION	P.B. NO.	CONCRETE DOUBLE TYPE A	CONCRETE DOUBLE TYPE B	CONCRETE STANDARD	PREFORM CL 1	PREFORM CL 2	PREFORM CL 3	DRAIN TYPE
1	1175+00	71′ LT	I-44	B2				1			I
1	1170+10	36′ LT	I-44WB	B3				1			II
1	1171+00	36′ RT	I-44EB	B4				1			II
2	1180+00	168′ LT	I-44	B1				1			I
2	1189+00	149′ LT	I-44WB	A1				1			I
3	1193+00	78′ LT	I-44	A2				1			II
3	1193+00	78′ RT	I-44	A3				1			II
				SUBTOTALS:				7			
				PAY TOTALS:				7			

CONTROL STATIONS

LIGHTING SHEET	STATION	OFFSET	LOCATION	BREAKERS (AMPS) CONTROL LETTER	MAIN	1	CIRCUIT 2	3	4	BASE MOUNT 4 CIR. 240V	BASE MOUNT 4 CIR. 480 V
				TOTALS, EACH:						USE	EXIST.

RIGID CONDUIT

LIGHTING SHEET	FROM	TO	LOCATION	CENTER TO CENTER	CIR	TRENCHED (″Ø) 2″	3″	4″	5″	PUSHED (″Ø) 3″	4″	5″	MEDIAN 2″	3″	EXTERNAL ON STRUC. 2″	3″	4″
1	B3	B4	I-44		2					138							
3	A2	A3	I-44		1					154							
				SUBTOTALS:						292							
				PAY TOTALS:						292							

LIGHTING SHEET QUANTITIES
SHEET 4 OF 4

STATE OF MISSOURI
PAUL JOSEPH KRONLAGE
NUMBER EN 023328
REGISTERED PROFESSIONAL ENGINEER
THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED 9/8/2021
ROUTE I-44 | STATE MO
DISTRICT CD | SHEET NO. 45
COUNTY PHELPS
JOB NO. J5I3572
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

REV.

Z:\21050.00 HRGreen I-44 Reconstruction J5I3572\DGN\Design\Final\Plotsheets\045_LT_04_J5I3572_i1.dgn 5:06:40 PM 9/8/2021

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PVMT MARKING
SHEET 1 OF 9

STATE OF MISSOURI
JASON S. DOHRMANN
PE-2004017159
PROFESSIONAL ENGINEER

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

DATE PREPARED	
9/22/2021	
ROUTE	STATE
I-44	MO
DISTRICT	SHEET NO.
CD	46
COUNTY	
PHELPS	
JOB NO.	
J5I3572	
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)

HR GREEN, INC.
16020 SWINGLEY RIDGE ROAD,
SUITE 205
ST. LOUIS, MISSOURI 63017
PHONE: (636) 519.0990
CORPORATE LICENSE #2002006608
HRGreen®

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LEGEND

———	6" S.W. - SOLID WHITE PAINT
———	6" S.Y. - SOLID YELLOW PAINT
- - - - -	6" I.W. - INTERMITTENT WHITE PAINT
- - - - -	6" I.Y. - INTERMITTENT YELLOW PAINT
———	12" S.W.- SOLID WHITE PAINT (GORE)

PVMT MARKING
SHEET 2 OF 9

JASON S. DOHRMANN
PE-2004017159
STATE OF MISSOURI
PROFESSIONAL ENGINEER

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

DATE PREPARED
9/22/2021

ROUTE	STATE
I-44	MO
DISTRICT	SHEET NO.
CD	47

COUNTY
PHELPS

JOB NO.
J5I3572

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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- 12" S.W.- SOLID WHITE PAINT (GORE)

PVMT MARKING
SHEET 3 OF 9

STATE OF MISSOURI
JASON S. DOHRMANN
PE-2004017159
PROFESSIONAL ENGINEER

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

DATE PREPARED: 9/22/2021
ROUTE: I-44 | STATE: MO
DISTRICT: CD | SHEET NO.: 48
COUNTY: PHELPS
JOB NO.: J5I3572
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)

HR GREEN, INC.
16020 SWINGLEY RIDGE ROAD.
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ST. LOUIS, MISSOURI 63017
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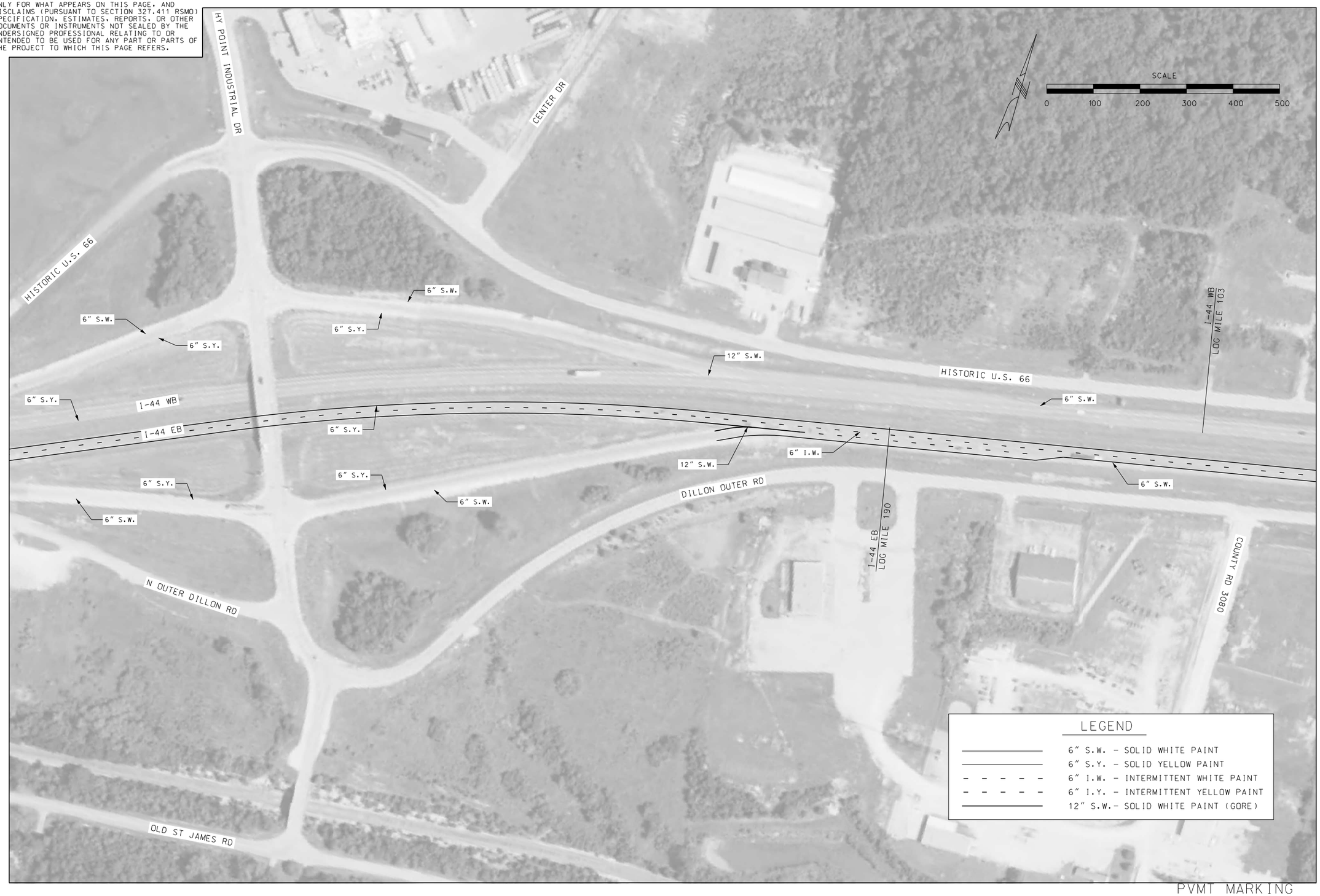

PVMT MARKING
SHEET 4 OF 9

STATE OF MISSOURI
JASON S. DOHRMANN
PE-2004017159
PROFESSIONAL ENGINEER

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DATE PREPARED
9/22/2021

ROUTE	STATE
I-44	MO
DISTRICT	SHEET NO.
CD	49

COUNTY
PHELPS

JOB NO.
J5I3572

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

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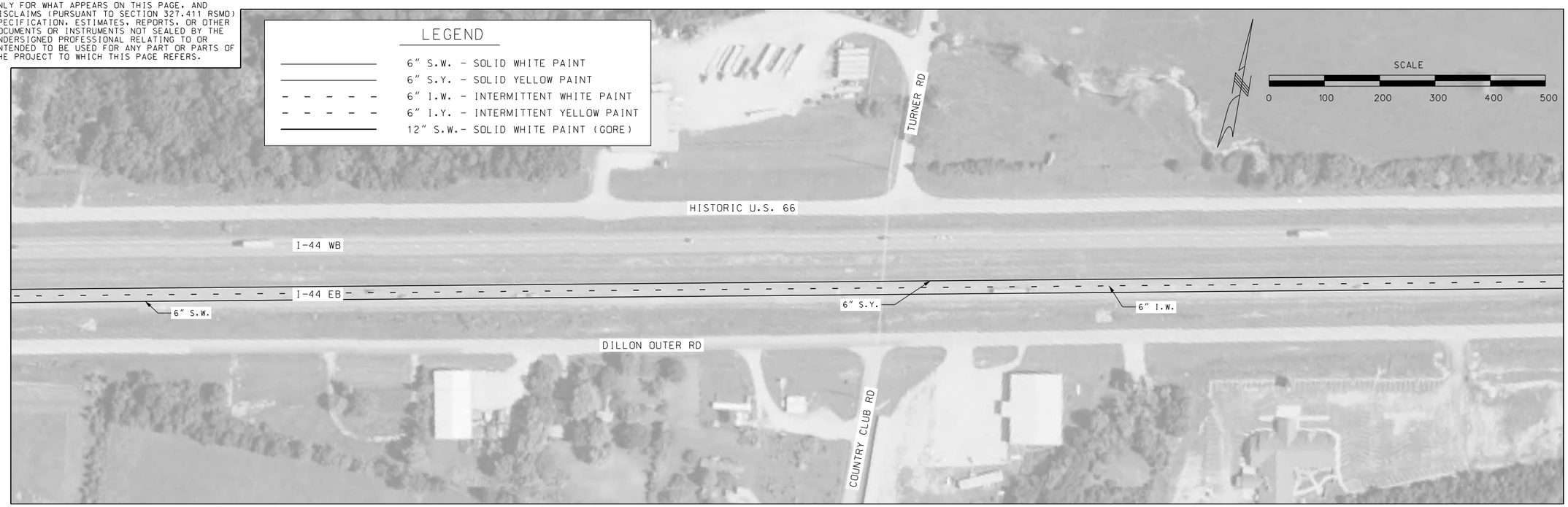
- - - - -	6" I.Y. - INTERMITTENT YELLOW PAINT
———	12" S.W.- SOLID WHITE PAINT (GORE)



PVMT MARKING
SHEET 5 OF 9

STATE OF MISSOURI
JASON S. DOHRMANN
PE-2004017159
PROFESSIONAL ENGINEER

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

DATE PREPARED
9/22/2021

ROUTE	STATE
I-44	MO
DISTRICT	SHEET NO.
CD	50

COUNTY
PHELPS

JOB NO.
J5I3572

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

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

DESCRIPTION	DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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

HR GREEN, INC.
16020 SWINGLEY RIDGE ROAD,
SUITE 205
ST. LOUIS, MISSOURI 63017
PHONE: (636) 519.0990
CORPORATE LICENSE #2002006608

HRGreen

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PVMT MARKING
SHEET 6 OF 9

STATE OF MISSOURI
JASON S. DOHRMANN
PE-2004017159
PROFESSIONAL ENGINEER

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

DATE PREPARED
9/22/2021

ROUTE	STATE
I-44	MO
DISTRICT	SHEET NO.
CD	51

COUNTY
PHELPS

JOB NO.
J5I3572

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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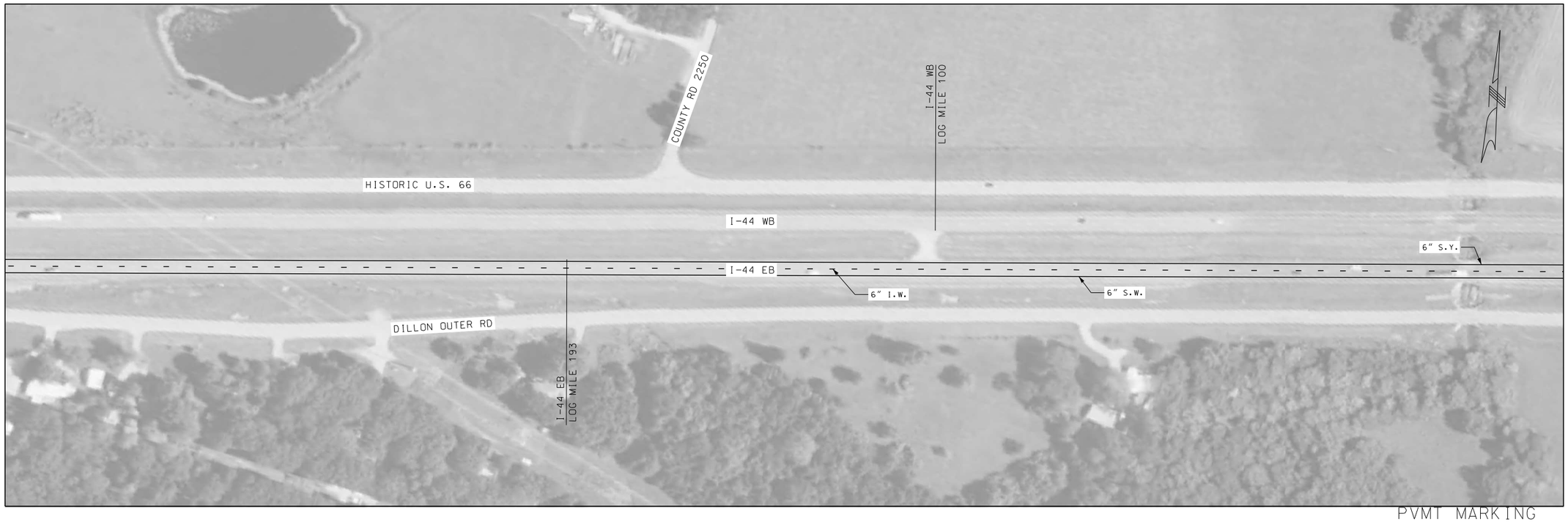

PVMT MARKING
SHEET 7 OF 9

STATE OF MISSOURI
JASON S. DOHRMANN
PE-2004017159
PROFESSIONAL ENGINEER

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

DATE PREPARED
9/22/2021

ROUTE	STATE
I-44	MO
DISTRICT	SHEET NO.
CD	52

COUNTY
PHELPS

JOB NO.
J5I3572

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DESCRIPTION	DATE

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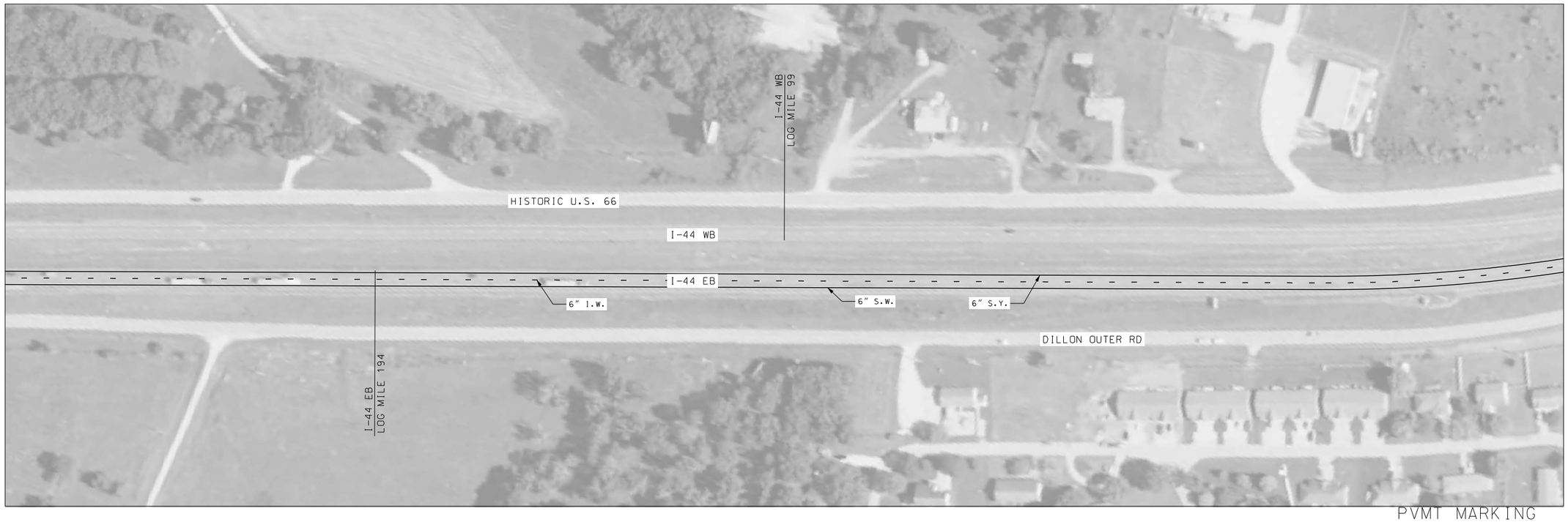

PVMT MARKING
SHEET 8 OF 9

STATE OF MISSOURI
JASON S. DOHRMANN
PE-2004017159
PROFESSIONAL ENGINEER

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

DATE PREPARED
9/22/2021

ROUTE	STATE
I-44	MO
DISTRICT	SHEET NO.
CD	53

COUNTY
PHELPS

JOB NO.
J5I3572

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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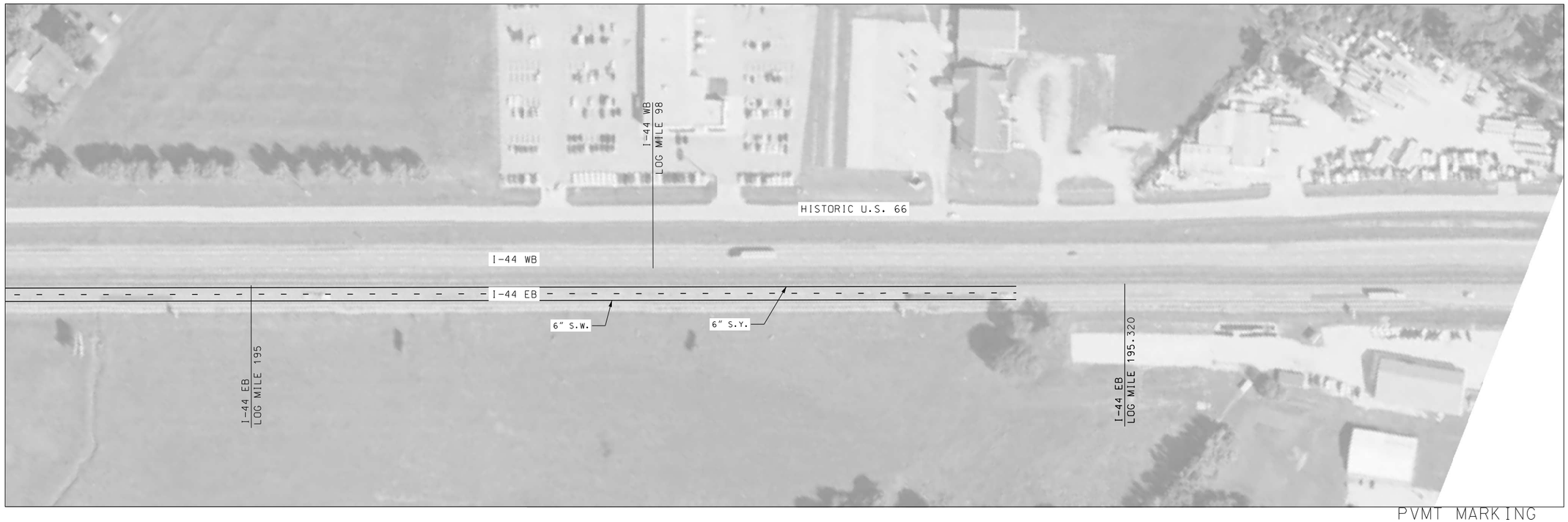

PVMT MARKING
SHEET 9 OF 9

JASON S. DOHRMANN
PE-2004017159
STATE OF MISSOURI
PROFESSIONAL ENGINEER

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

DATE PREPARED
9/22/2021

ROUTE	STATE
I-44	MO
DISTRICT	SHEET NO.
CD	54

COUNTY
PHELPS

JOB NO.
J5I3572

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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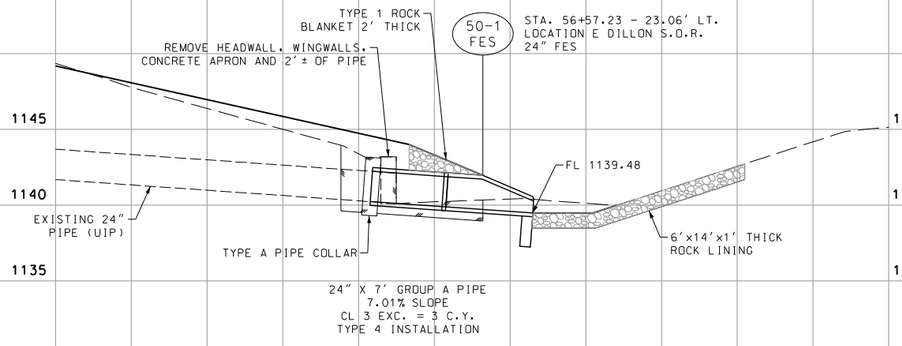

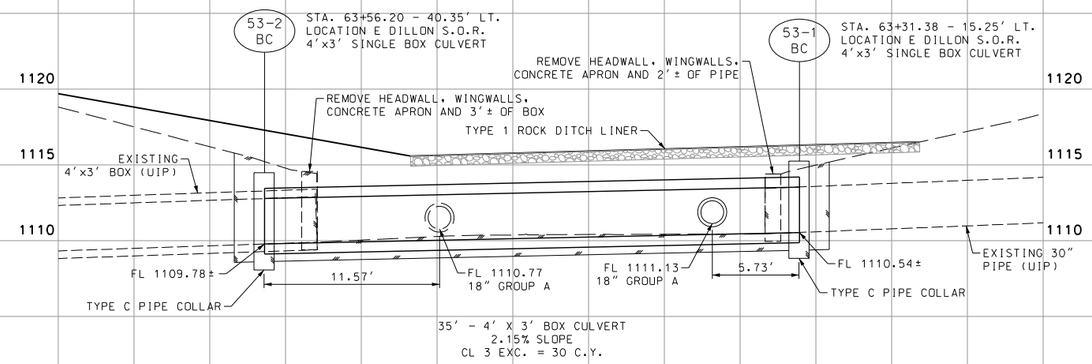

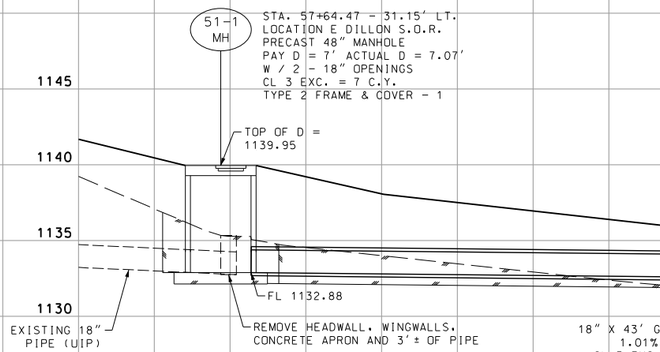

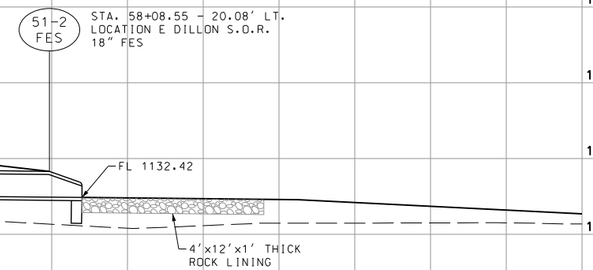

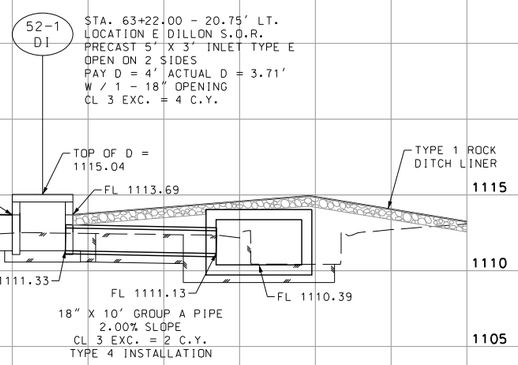

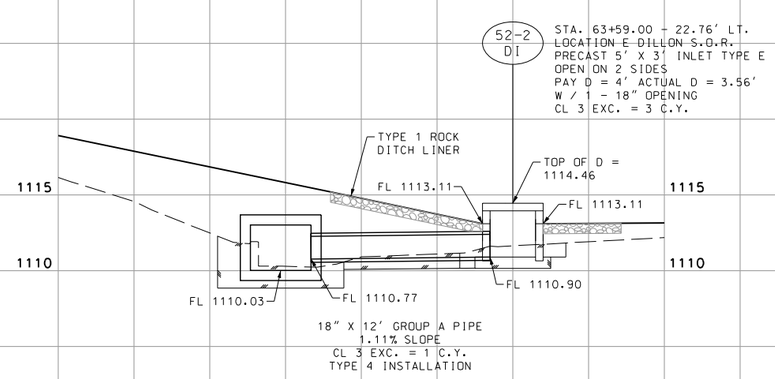

CULVERT SECTION
LOCATION E
LOG MILE 190.0-190.2
DILLON OUTER ROAD
SHEET 1 OF 1

STATE OF MISSOURI
PAUL JOSEPH KRONLAGE
NUMBER EN 023328
REGISTERED PROFESSIONAL ENGINEER
THIS SHEET WAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED
9/8/2021

ROUTE	STATE
I-44	MO
DISTRICT	SHEET NO.
CD	55

COUNTY
PHELPS

JOB NO.
J5I3572

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

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DESCRIPTION	DATE	REV.

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

EFK•Moen
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