DESIGN DESIGNATION

A.A.D.T. - 2023 = 49,976

T = 11.7%

V = 45 M.P.H.

FUNCTIONAL CLASSIFICATION - PRINCIPAL ARTERIAL

NORMAL RIGHT OF WAY IS TO BE ACQUIRED FOR THIS PROJECT

CONVENTIONAL SYMBOLS

(USED IN PLANS)

	EXISTING	NEW
BUILDINGS AND STRUCTURES		
GUARD RAIL		
GUARD CABLE		
CONCRETE RIGHT-OF-WAY MARKER		
STEEL RIGHT-OF-WAY MARKER		
LOCATION SURVEY MARKER		
UTILITIES		
FIBER OPTICS	-FO-	~~FO~~
OVERHEAD CABLE TV	-OTV-	~~OTV~~
UNDERGROUND CABLE TV	-UTV-	~~UTV~~
OVERHEAD TELEPHONE	-OT-	~~OT~~
UNDERGROUND TELEPHONE	-UT-	~~UT~~
OVERHEAD POWER	-OE-	~~OE~~
UNDERGROUND POWER	-UE-	~~UE~~
SANITARY SEWER	-S-	~~S~~
STORM SEWER	-SS-	~~SS~~
GAS	-G-	~~G~~
WATER	-W-	~~W~~
MANHOLE	SAN	
FIRE HYDRANT	HYD	
WATER VALVE	WV	
WATER METER	WM	
DROP INLET	D	
DITCH BLOCK		
GROUND MOUNTED SIGN	SIGN	
LIGHT POLE		
H-FRAME POWER POLE	PED	
TELEPHONE PEDESTAL		
FENCE		
CHAIN LINK	-V-	
WOVEN WIRE	-X-	
GATE POST		
BENCHMARK	BM	
PERMANENT DRAINAGE EASEMENT	P.D.E.	
PERMANENT HIGHWAY EASEMENT	P.H.E.	
TEMPORARY CONSTRUCTION EASEMENT	T.C.E.	
DO NOT DISTURB	(DND)	
REMOVE	(R)	
RELOCATE	(RELOC.)	
REMOVE AND REPLACE	(R & R)	
REMOVE AND RELOCATE	(R & RELOC.)	
ADJUST TO GRADE	(ATG)	
USE IN PLACE	(UIP)	
TO BE ABANDONED	(TBA)	
BY OTHERS	(BO)	

CURB RAMPS

COMPOUND PERPENDICULAR CURB RAMP	COMP PERP RAMP
TYPE 1 PARALLEL CURB RAMP	T1 PAR RAMP
TYPE 2 PARALLEL CURB RAMP	T2 PAR RAMP
SMALL RADIUS PERPENDICULAR CURB RAMP	SR PERP RAMP
LARGE RADIUS PERPENDICULAR CURB RAMP	LR PERP RAMP
DUAL PERPENDICULAR CURB RAMP	DUAL PERP RAMP
BLENDED TRANSITION CURB RAMP	BLD TRANS RAMP
TRUNCATED DOMES	

NOTE: DASHED OR OPEN SYMBOLS INDICATE EXISTING FEATURES

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

PLANS FOR PROPOSED STATE HIGHWAY

MO ROUTE 100 (MANCHESTER ROAD) ADA, SIGNAL AND PAVEMENT IMPROVEMENTS F01813 AND F01822 REPLACEMENTS A09602 AND A50161 REHABILITATION MoDOT JOB NO. J6P3274 ST. LOUIS COUNTY

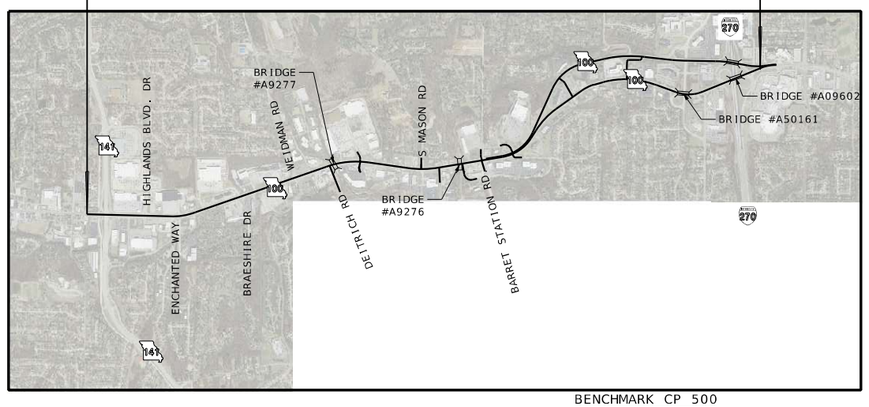
TOWNSHIP 45N
RANGE 5E, SECTIONS 31-34

KEY MAP
LOCATION OF ST. LOUIS COUNTY

ROUTE 100 PROJECT LIMITS
ASPHALT PAVEMENT REHABILITATION,
SIDEWALK AND ADA IMPROVEMENTS,
SIGNING, STRIPING, SIGNALS, AND GUARDAIL.
REPLACE BR. F01813 W/ A9276 & F01822 W/ A9277
REHABILITATE BR. A0960 & A5016

END PROJECT STA. 1592+85.69

BEGIN PROJECT STA. 1410+10.38



NOT TO SCALE

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EXISTING WATER AND SANITARY CONNECTIONS WILL NOT BE MODIFIED WITH THIS WORK.

PER THE MSD BASE MAP THIS SITE LIES NEAR, PARTIALLY WITHIN, OR ENTIRELY WITHIN A HAZARDOUS AREA.

THIS PROJECT FALLS UNDER MODOTS TS4 PERMIT EFFECTIVE THROUGH OCTOBER 31, 2026. ALL STORMWATER STRUCTURES ARE OWNED, MAINTAINED AND OPERATED BY MODOT,UNLESS OTHERWISE STATED ON THE PLAN SHEETS. STORMWATER QUALITY IMPACTS HAVE BEEN REVIEWED BY THE MODOT ENVIRONMENTAL GROUP FOR COMPLIANCE WITH THE PERMIT.

STORMWATER MANAGEMENT FUTURE DISTURBANCE NOTE:
PROJECT DISTURBANCE = 7.36 ACRES
PROJECT RUNOFF DIFFERENTIAL = 1.51 CFS
DIFFERENTIAL FOR 19MSD-00527 = 0.17 CFS
CUMULATIVE DIFFERENTIAL = 1.68 CFS
ANY FUTURE LAND DISTURBANCE AND/OR INCREASE IN IMPERVIOUS AREA ON THIS SITE MAY REQUIRE ADDITIONAL STORMWATER MANAGEMENT PER MSD REGULATIONS IN PLACE AT THAT TIME (INCLUDING TOTAL LAND DISTURBANCE AND/OR IMPERVIOUSNESS ADDED ON THIS PLAN.)

BENCHMARK CP 500
NAD 83 (2011)
NAVD 1988
5/8" ROD W/ CAP IN GRASS; APPROX 780 FEET EAST OF THE INTERSECTION OF MANCHESTER RD AND HIGHLAND BLVD ON THE NORTH SIDE OF MANCHESTER RD
ZONE = MO EAST N:1004778.8988 E:819579.5598
ELEV = 495.974 FT (US)

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

INDEX OF SHEETS

DESCRIPTION	SHEET NUMBER
TITLE SHEET	1
TYPICAL SECTIONS (TS) (14 SHEETS)	2
QUANTITIES (QU) (20 SHEETS)	3
PLAN SHEET LOCATIONS	4
PLAN SHEETS (PL)	5-58
PROFILE SHEETS (PR)	59-60
RIGHT OF WAY SHEETS (RW)	61-114
RIGHT OF WAY IMPACTS TABLE	115-118
REFERENCE POINTS (RP)	119
COORDINATE POINTS (CP)	120-132
ISLAND & MEDIAN DETAILS (ID)	133-137
SPECIAL SHEETS (SS)	138-146
TRAFFIC CONTROL SHEETS (TC)	147-166
SIGNAL SHEETS (SG)	167-227
ITS SHEETS (ITS)	228-238
SIGNING (SN)	239-272
PAVEMENT MARKING SHEETS (PM)	273-286
DRAINAGE SHEETS	287-302
CULVERT SECTIONS (CS)	303-306
BRIDGE DRAWINGS (B)	
A09602	1
A50161	1
A9276	1-5
A9277	1-7
CROSS SECTIONS (XS)	1-178

LENGTH OF PROJECT

BEGINNING OF PROJECT	STA.	1410+10.38
END OF PROJECT	STA.	1592+85.69
APPARENT LENGTH		18,275.31 FEET

EQUATIONS AND EXCEPTIONS:

TOTAL CORRECTIONS	0 FEET
NET LENGTH OF PROJECT	18,275.31 FEET
STATE LENGTH	3.46 MILES
FOR INFORMATION ONLY ESTIMATED DISTURBED ACRES	2.6 ACRES

STATE OF MISSOURI
BRIAN D. KIERATH JR.
NUMBER PE-2023008624
PROFESSIONAL ENGINEER

04/01/2025 10:40:06 AM
Brian D. Kierath Jr. - Civil
MO PE-2023008624

DATE PREPARED
4/1/2025

ROUTE	STATE
100	MO
DISTRICT	SHEET NO.
SL	1

COUNTY
ST. LOUIS

JOB NO.
J6P3274

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)

GBA
16305 SWINGLEY RIDGE RD
ST. 300
CHESTERFIELD, MO 63017
314.231.0100
GBAteam.com

GEORGE BUTLER ASSOCIATES, INC.
PRO. ENGINEER 000133
ARCHITECT 000212
PRO. LAND SURVEYOR 000059

BRIAN KIERATH
PROFESSIONAL ENGINEER
PE-2023008624

APPLICATION RATES (FOR INFORMATION ONLY):

BITUMINOUS PAVEMENT MIXTURE PG 64-22 (BP-1)	1.948 TONS/CUYD
ASPHALTIC CONCRETE MIXTURE (TYPE SP095CLP MIX)	1.913 TONS/CUYD
ASPHALTIC CONCRETE MIXTURE (TYPE SP125CLP MIX)	1.927 TONS/CUYD
ASPHALTIC CONCRETE MIXTURE (TYPE SP190C MIX)	1.940 TONS/CUYD
TACK COAT (NEW ASPHLAT SURFACE)	0.05 GAL/SQYD
TACK COAT (COLDMILLED SURFACE)	0.10 GAL/SQYD

OPTIONAL PAVEMENT				
LOCATION	BASE TYPE	HMA DESIGN	PCCP DESIGN	SHOULDER
MO 100	6" TYPE 5 AGGREGATE BASE	13.5" HMA 2" SP125CLP W. PG 76-22 OVER 3" SP250C W/ PG 76-22 OVER 8.5" SP250C W/ PG 64-22	10.5" PCCP 15FT. JOINT SPACING 1.5" DOWELS. EXTENDED SLAB	A2 OR C&G

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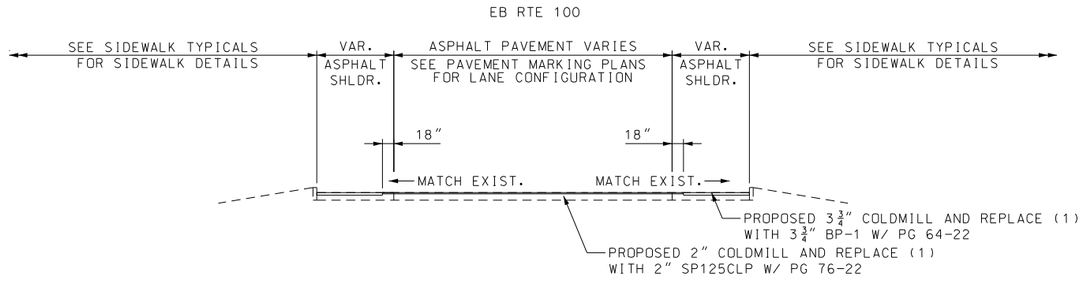
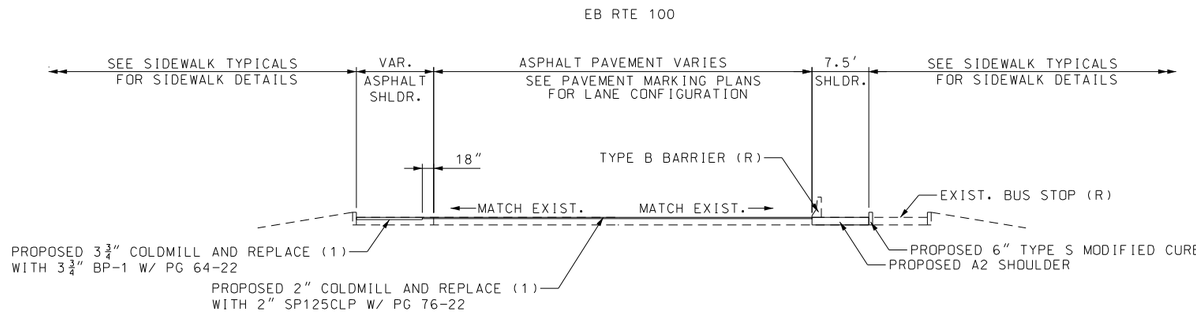


1 TYPICAL SECTION MO ROUTE 100 MANCHESTER ROAD

STA. 1429+65.65 TO STA. 1442+63.83
STA. 1446+87.31 TO STA. 1470+33.75



2 TYPICAL SECTION MO ROUTE 100 MANCHESTER ROAD

STA. 1441+65.00 TO STA. 1446+84.00

(1) THE MAINLINE TREATMENT SHOULD BE EXTENDED ONTO SHOULDERS AT LEAST 18 IN. FOR GOOD LONGITUDINAL JOINT AND RUMBLE STRIP PERFORMANCE. ANY REMAINING SHOULDER WIDTH THAT IS 3 FEET OR GREATER SHOULD UTILIZE A LESSER TREATMENT WITH A SEPERATE SHOULDER PAVING OPERATION AND PAY ITEM. IF THE REMAINING SHOULDER WIDTH IS LESS THAN 3 FEET: THEN THE MAINLINE TREATMENT SHOULD ALSO BE APPLIED TO THE SHOULDER.

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Brian D. Kierath Jr. - Civil
MO PE-2023008624

DATE PREPARED: 4/1/2025
ROUTE: 100 | STATE: MO
DISTRICT: SL | SHEET NO.: 2
COUNTY: ST. LOUIS
JOB NO.: J6P3274
CONTRACT ID.:
PROJECT NO.:
BRIDGE NO.:

DESCRIPTION	DATE

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

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
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GBAteam.com

GEORGE BUTLER ASSOCIATES. INC.
PRO. ENGINEER 000133
ARCHITECT 000212
PRO. LAND SURVEYOR 000059

SHEET 1 OF 14

TYPICAL SECTION

MO ROUTE 100
MANCHESTER ROAD

BRIAN KIERATH
PROFESSIONAL ENGINEER
PE-2023008624

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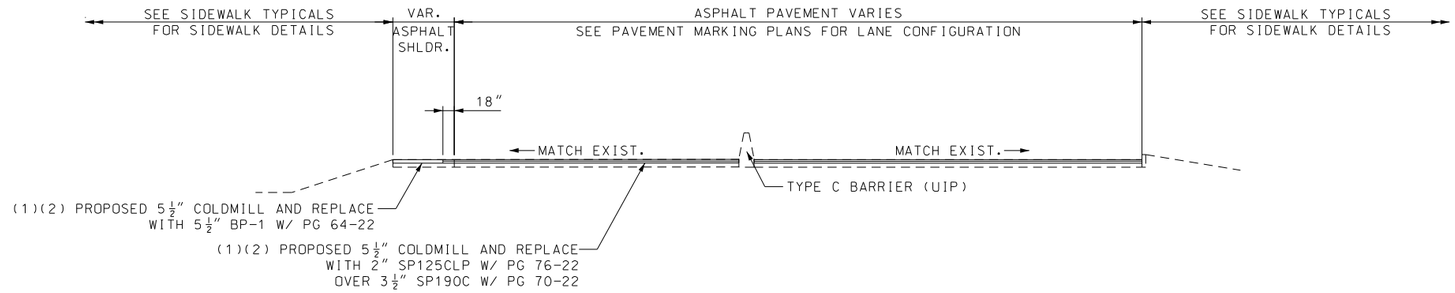
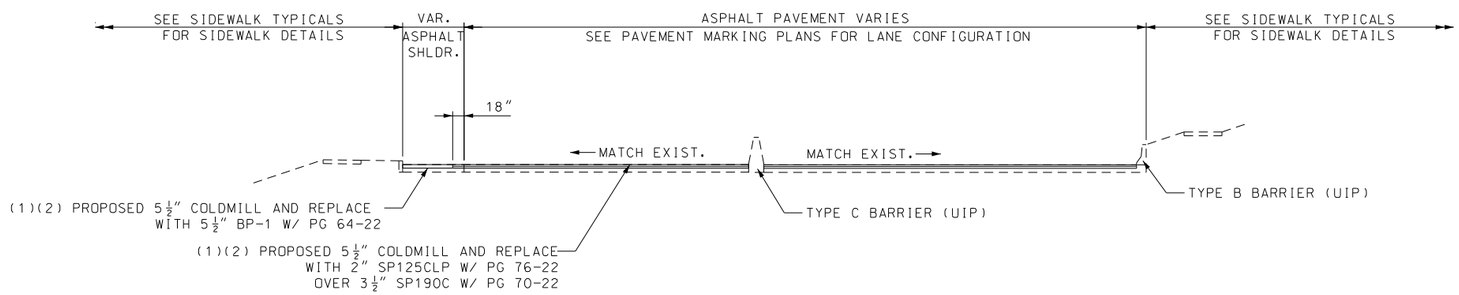


3 TYPICAL SECTION MO ROUTE 100 MANCHESTER ROAD

STA. 1470+33.75 TO STA. 1480+43.61



4 TYPICAL SECTION US ROUTE 100 MANCHESTER ROAD

STA. 1480+43.61 TO STA. 1482+94.60

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DATE PREPARED
4/1/2025

ROUTE	STATE
100	MO
DISTRICT	SHEET NO.
SL	2

COUNTY
ST. LOUIS

JOB NO.
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SHEET 2 OF 14

TYPICAL SECTION

MO ROUTE 100
MANCHESTER ROAD

BRIAN KIERATH
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PE-2023008624

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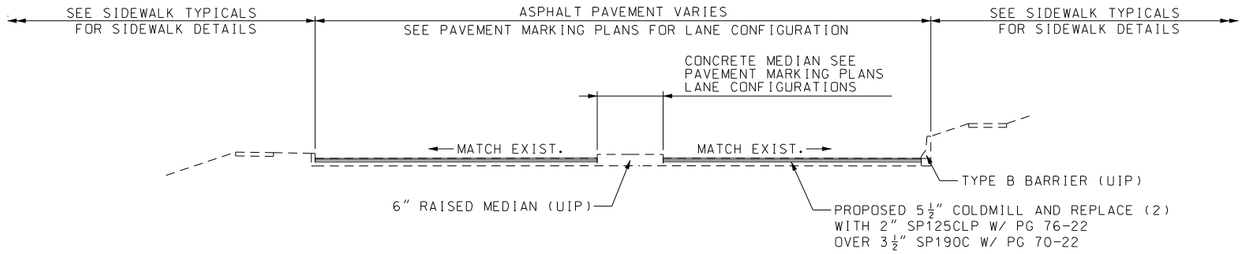
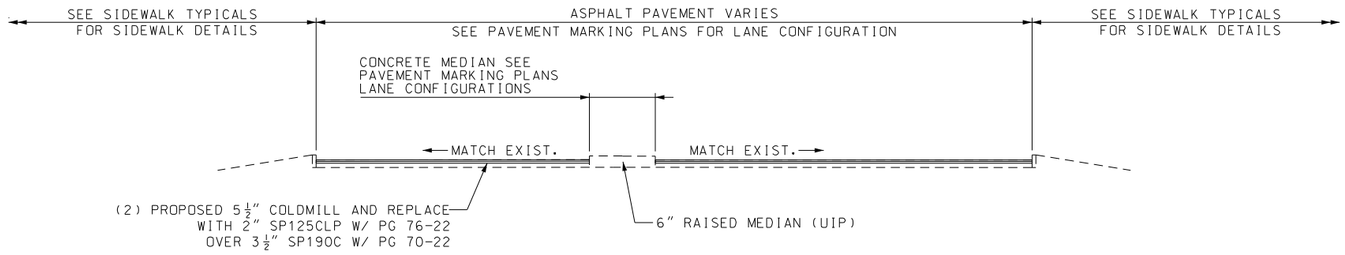


5 TYPICAL SECTION US ROUTE 100 MANCHESTER ROAD

STA. 1482+94.60 TO STA. 1485+13.15



6 TYPICAL SECTION US ROUTE 100 MANCHESTER ROAD

STA. 1485+13.15 TO STA. 1486+81.26

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PRO. ENGINEER 000133
ARCHITECT 000212
PRO. LAND SURVEYOR 000059

SHEET 3 OF 14

TYPICAL SECTION

MO ROUTE 100
MANCHESTER ROAD

BRIAN KIERATH
PROFESSIONAL
ENGINEER
PE-2023008624

APPLICATION RATES (FOR INFORMATION ONLY):

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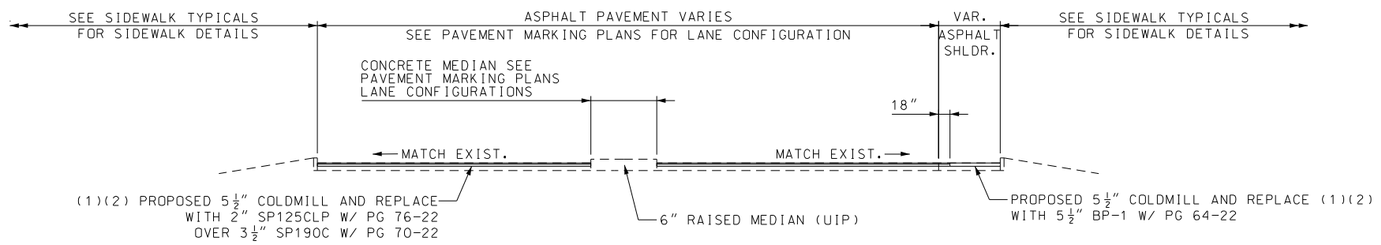
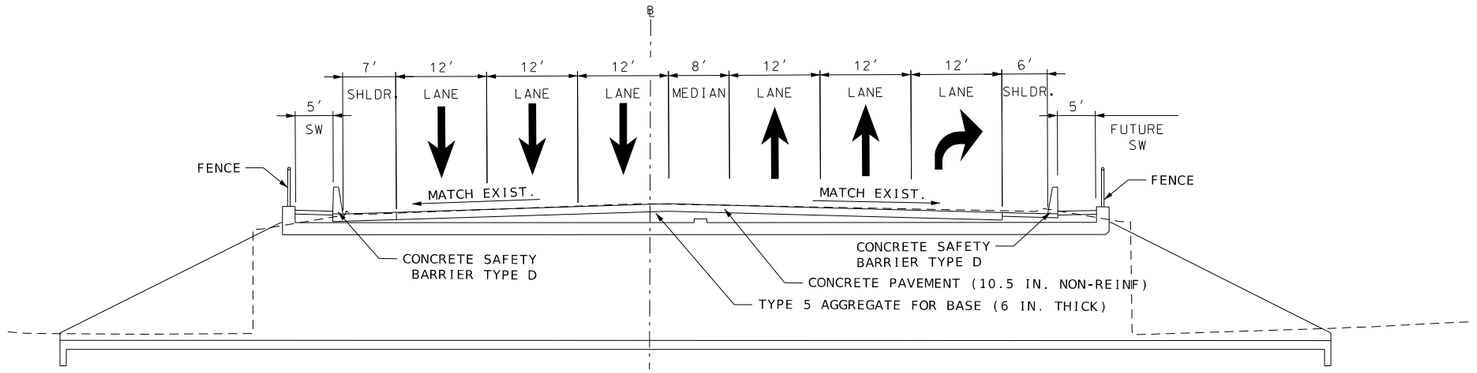


7 TYPICAL SECTION US ROUTE 100 MANCHESTER ROAD

STA. 1486+81.26 TO STA. 1493+30.00
STA. 1503+95.54 TO STA. 1505+22.51



8 TYPICAL SECTION US ROUTE 100 MANCHESTER ROAD

STA. 1493+30.00 TO STA. 1494+16.00

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PROFESSIONAL ENGINEER
04/01/2025 10:40:20 AM
Brian D. Kierath Jr. - Civil
MO PE-2023008624

DATE PREPARED 4/1/2025
ROUTE 100 | STATE MO
DISTRICT SL | SHEET NO. 2
COUNTY ST. LOUIS
JOB NO. J6P3274
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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SHEET 4 OF 14

TYPICAL SECTION

MO ROUTE 100
MANCHESTER ROAD

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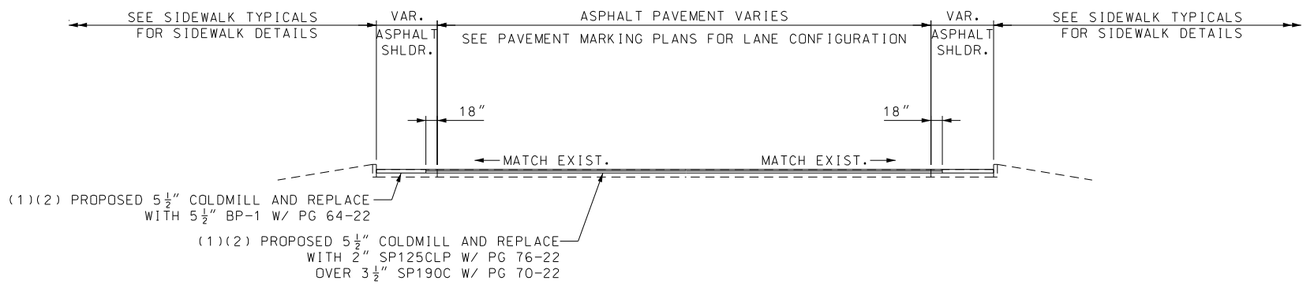
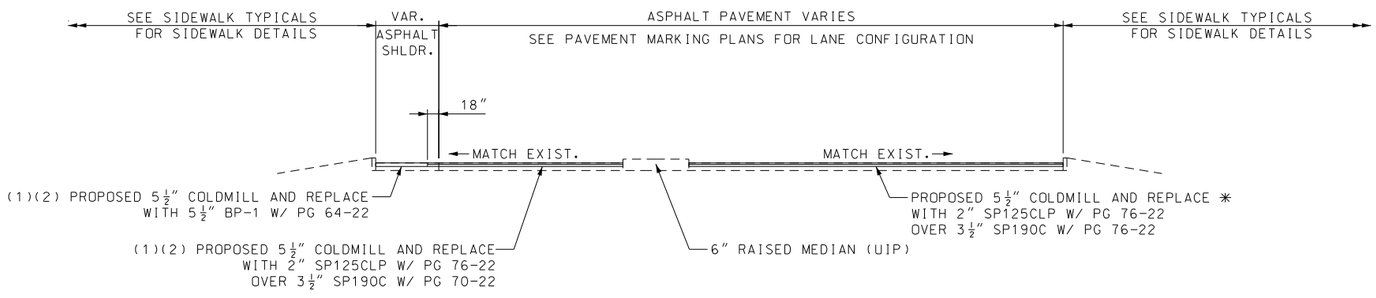


9 TYPICAL SECTION US ROUTE 100 MANCHESTER ROAD

STA. 1494+16.00 TO STA. 1499+27.66
STA. 1505+22.51 TO STA. 1513+90.57
STA. 1552+53.12 TO STA. 1562+83.67



10 TYPICAL SECTION US ROUTE 100 MANCHESTER ROAD

STA. 1499+27.66 TO STA. 1503+95.54

(1) THE MAINLINE TREATMENT SHOULD BE EXTENDED ONTO SHOULDERS AT LEAST 18 IN. FOR GOOD LONGITUDINAL JOINT AND RUMBLE STRIP PERFORMANCE. ANY REMAINING SHOULDER WIDTH THAT IS 3 FEET OR GREATER SHOULD UTILIZE A LESSER TREATMENT WITH A SEPERATE SHOULDER PAVING OPERATION AND PAY ITEM. IF THE REMAINING SHOULDER WIDTH IS LESS THAN 3 FEET: THEN THE MAINLINE TREATMENT SHOULD ALSO BE APPLIED TO THE SHOULDER.
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Brian D. Kierath Jr. - Civil
MO PE-2023008624

DATE PREPARED
4/1/2025

ROUTE	STATE
100	MO
DISTRICT	SHEET NO.
SL	2

COUNTY
ST. LOUIS

JOB NO.
J6P3274

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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CHESTERFIELD, MO 63017
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GEORGE BUTLER
ASSOCIATES, INC.
PRO. ENGINEER 000133
ARCHITECT 000212
PRO. LAND SURVEYOR 000059

BRIAN KIERATH
PROFESSIONAL
ENGINEER
PE-2023008624

SHEET 5 OF 14

TYPICAL SECTION

MO ROUTE 100
MANCHESTER ROAD

APPLICATION RATES (FOR INFORMATION ONLY):

BITUMINOUS PAVEMENT MIXTURE PG 64-22 (BP-1)	1.948 TONS/CUYD
ASPHALTIC CONCRETE MIXTURE (TYPE SP095CLP MIX)	1.913 TONS/CUYD
ASPHALTIC CONCRETE MIXTURE (TYPE SP125CLP MIX)	1.927 TONS/CUYD
ASPHALTIC CONCRETE MIXTURE (TYPE SP190C MIX)	1.940 TONS/CUYD
TACK COAT (NEW ASPHLAT SURFACE)	0.05 GAL/SQYD
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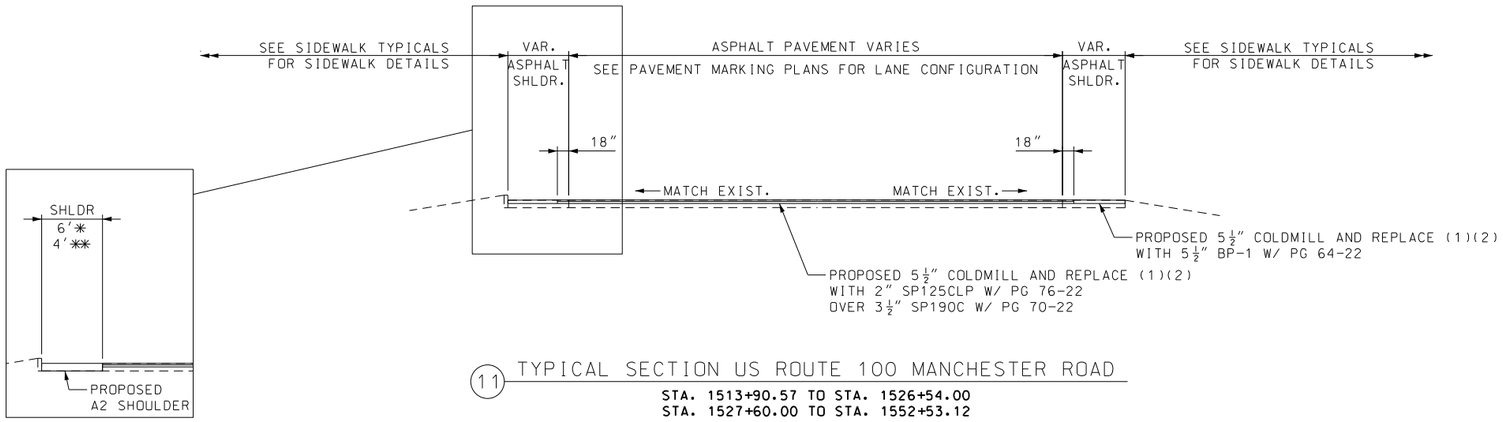
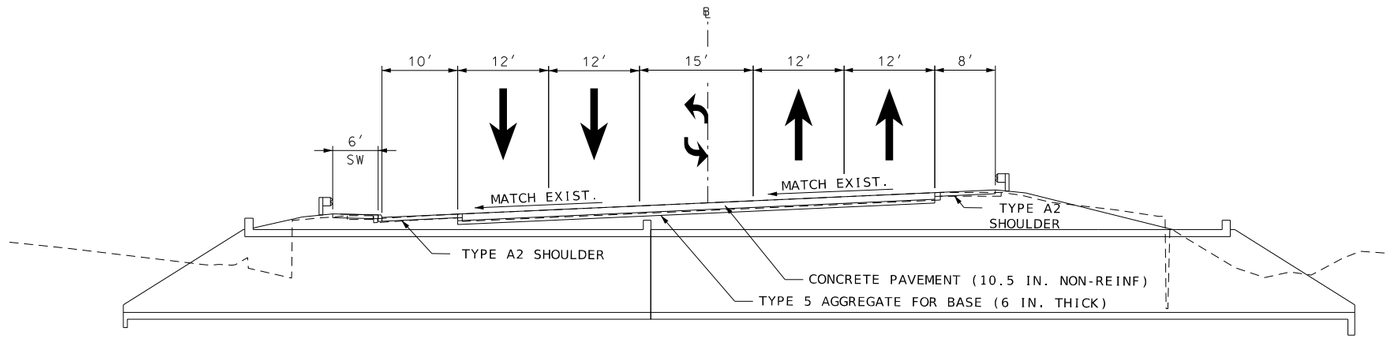


(11) TYPICAL SECTION US ROUTE 100 MANCHESTER ROAD

STA. 1513+90.57 TO STA. 1526+54.00
STA. 1527+60.00 TO STA. 1552+53.12

STA. 1529+70.00 TO STA. 1530+24.04 *
STA. 1530+80.51 TO STA. 1531+01.99 **
STA. 1531+95.48 TO STA. 1532+80.85 **



(12) TYPICAL SECTION US ROUTE 100 MANCHESTER ROAD

STA. 1526+54.00 TO STA.1527+60.00

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COUNTY ST. LOUIS
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PRO. LAND SURVEYOR 000059

BRIAN KIERATH
PROFESSIONAL ENGINEER
PE-2023008624

SHEET 6 OF 14

TYPICAL SECTION

MO ROUTE 100
MANCHESTER ROAD

APPLICATION RATES (FOR INFORMATION ONLY):

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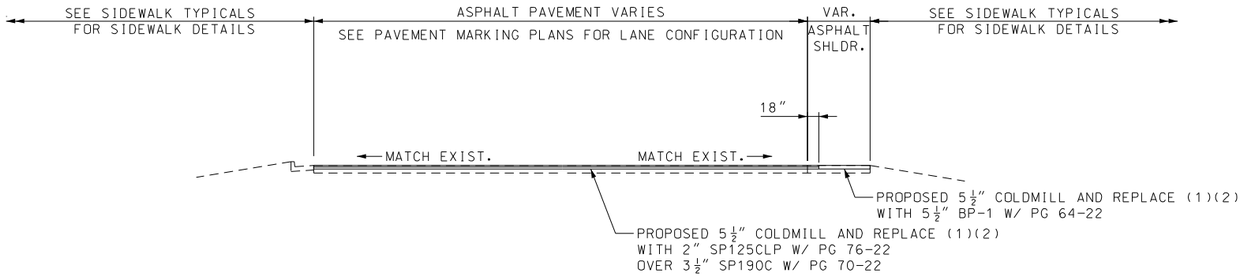
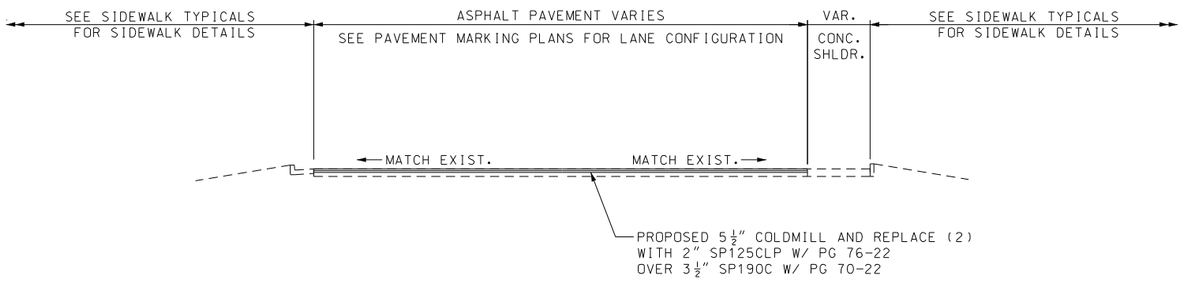


(13) TYPICAL SECTION US ROUTE 100 MANCHESTER ROAD

STA. 1562+83.67 TO STA. 1565+67.45



(14) TYPICAL SECTION US ROUTE 100 MANCHESTER ROAD

STA. 1565+67.45 TO STA. 1570+51.25

(1) THE MAINLINE TREATMENT SHOULD BE EXTENDED ONTO SHOULDERS AT LEAST 18 IN. FOR GOOD LONGITUDINAL JOINT AND RUMBLE STRIP PERFORMANCE. ANY REMAINING SHOULDER WIDTH THAT IS 3 FEET OR GREATER SHOULD UTILIZE A LESSER TREATMENT WITH A SEPERATE SHOULDER PAVING OPERATION AND PAY ITEM. IF THE REMAINING SHOULDER WIDTH IS LESS THAN 3 FEET: THEN THE MAINLINE TREATMENT SHOULD ALSO BE APPLIED TO THE SHOULDER.
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SHEET 7 OF 14

TYPICAL SECTIONS

MO ROUTE 100
MANCHESTER ROAD

BRIAN KIERATH
PROFESSIONAL
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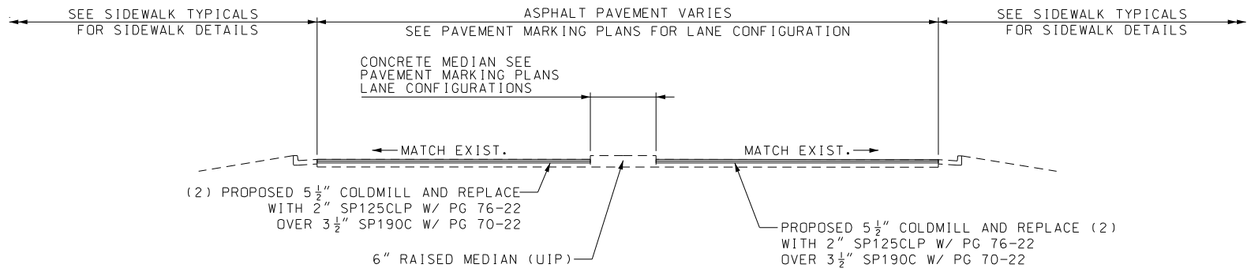
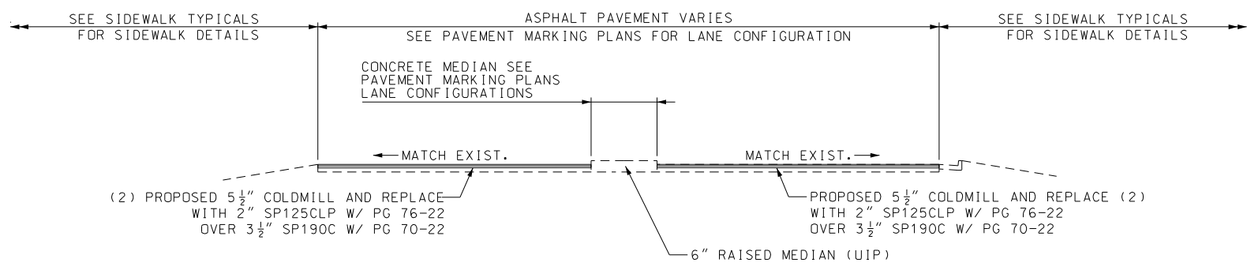


15 TYPICAL SECTION US ROUTE 100 MANCHESTER ROAD

STA. 1570+51.25 TO STA. 1579+01.34



16 TYPICAL SECTION US ROUTE 100 MANCHESTER ROAD

STA. 1579+01.34 TO STA. 1582+17.41

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SHEET 8 OF 14

TYPICAL SECTION

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APPLICATION RATES (FOR INFORMATION ONLY):

BITUMINOUS PAVEMENT MIXTURE PG 64-22 (BP-1)	1.948 TONS/CUYD
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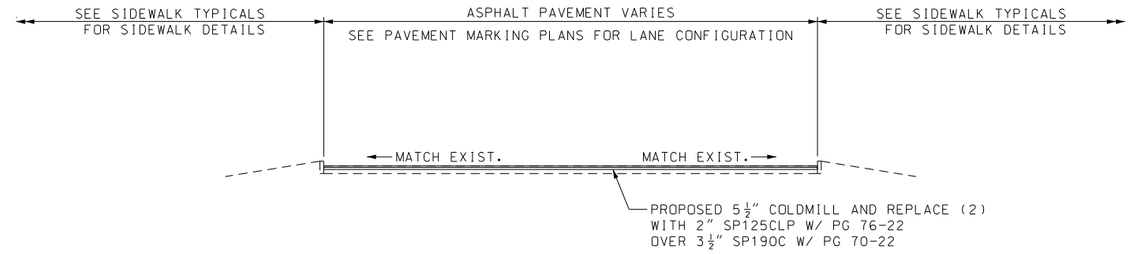
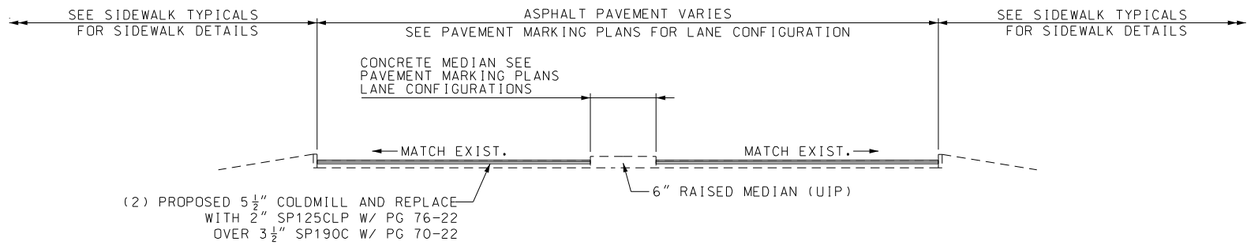


17 TYPICAL SECTION US ROUTE 100 MANCHESTER ROAD

STA. 1587+90.66 TO STA. 1590+86.52



18 TYPICAL SECTION US ROUTE 100 MANCHESTER ROAD

STA. 1590+86.52 TO STA. 1592+85.69

(1) THE MAINLINE TREATMENT SHOULD BE EXTENDED ONTO SHOULDERS AT LEAST 18 IN. FOR GOOD LONGITUDINAL JOINT AND RUMBLE STRIP PERFORMANCE. ANY REMAINING SHOULDER WIDTH THAT IS 3 FEET OR GREATER SHOULD UTILIZE A LESSER TREATMENT WITH A SEPERATE SHOULDER PAVING OPERATION AND PAY ITEM. IF THE REMAINING SHOULDER WIDTH IS LESS THAN 3 FEET: THEN THE MAINLINE TREATMENT SHOULD ALSO BE APPLIED TO THE SHOULDER.
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SHEET 9 OF 14

TYPICAL SECTION

MO ROUTE 100
MANCHESTER ROAD

APPLICATION RATES (FOR INFORMATION ONLY):

BITUMINOUS PAVEMENT MIXTURE PG 64-22 (BP-1)	1.948 TONS/CUYD
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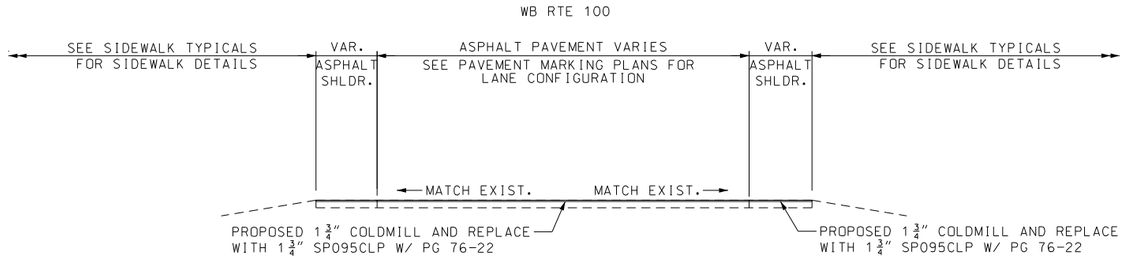
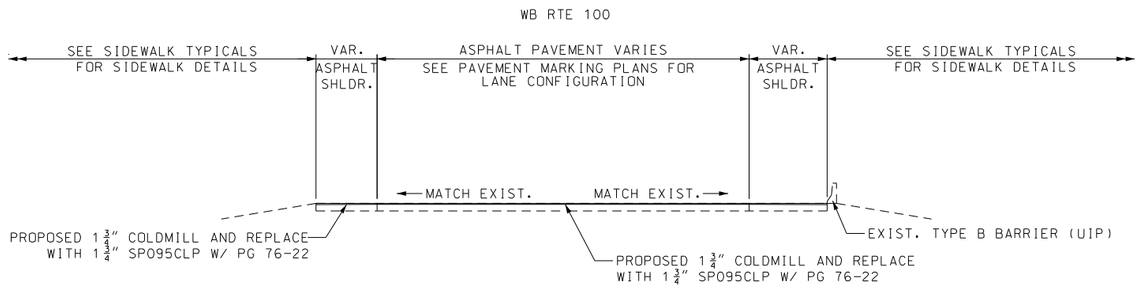


(19) TYPICAL SECTION MO ROUTE 100 MANCHESTER ROAD

STA. 1425+39.32 TO STA. 1431+45.10
STA. 1456+32.00 TO STA. 1457+70.88
STA. 1464+39.11 TO STA. 1466+42.18
STA. 1468+46.11 TO STA. 1474+34.06



(20) TYPICAL SECTION MO ROUTE 100 MANCHESTER ROAD

STA. 1431+45.10 TO STA. 1449+95.75

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SHEET 10 OF 14

TYPICAL SECTION

MO ROUTE 100
MANCHESTER ROAD

BRIAN KIERATH
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PE-2023008624

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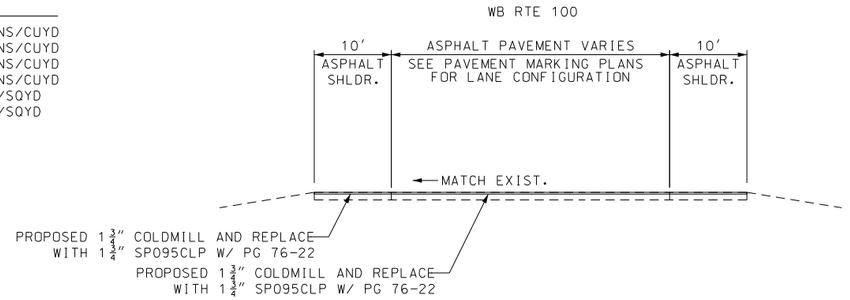
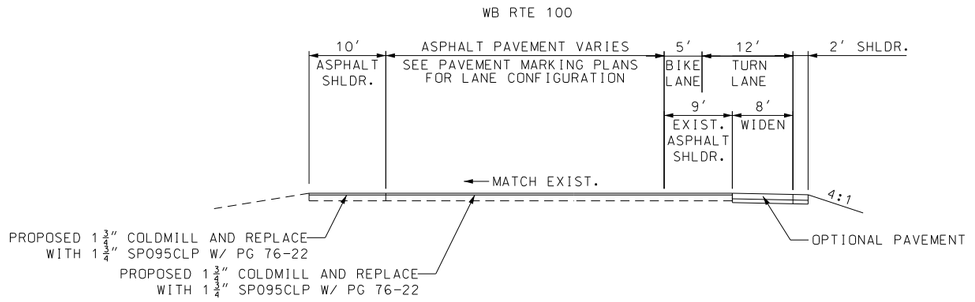


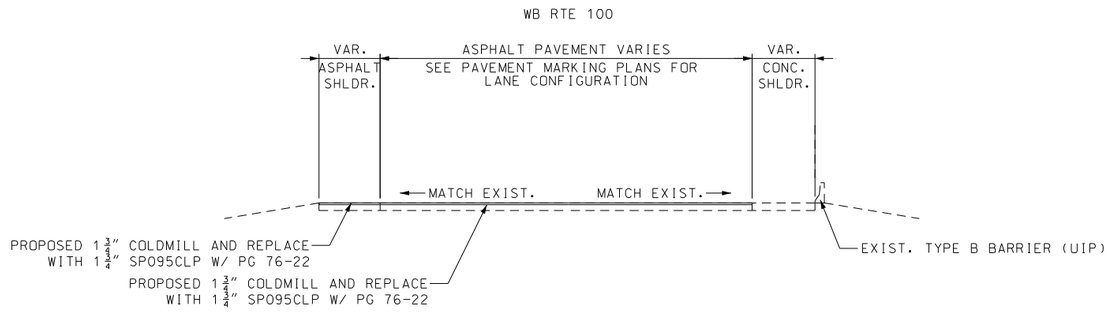
21 TYPICAL SECTION MO ROUTE 100 MANCHESTER ROAD

STA. 1449+95.75 TO STA. 1454+78.00
STA. 1466+42.18 TO STA. 1468+46.11



22 TYPICAL SECTION MO ROUTE 100 MANCHESTER ROAD

STA. 1454+78.00 TO STA. 1456+32.00



23 TYPICAL SECTION MO ROUTE 100 MANCHESTER ROAD

STA. 1457+70.88 TO STA. 1464+39.11

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ROUTE	STATE
100	MO
DISTRICT	SHEET NO.
SL	2

COUNTY
ST. LOUIS

JOB NO.
J6P3274

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)

GBA
16305 SWINGLEY RIDGE RD
ST. 300
CHESTERFIELD, MO 63017
314.231.0100
GBAteam.com

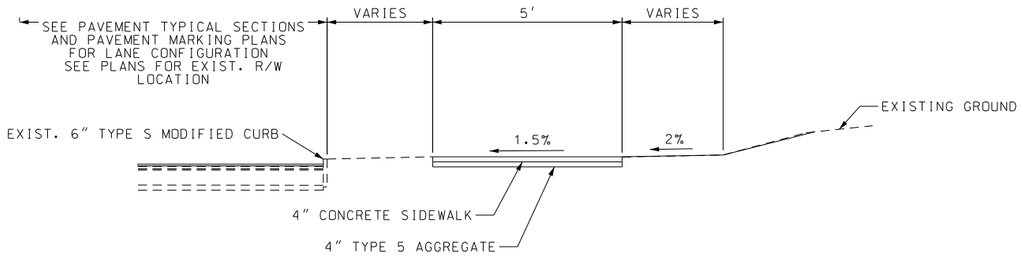
GEORGE BUTLER ASSOCIATES, INC.
PRO. ENGINEER 000133
ARCHITECT 000212
PRO. LAND SURVEYOR 000059

SHEET 11 OF 14

TYPICAL SECTION

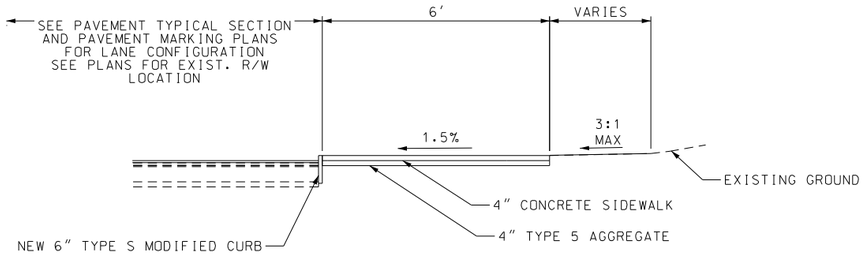
MO ROUTE 100
MANCHESTER ROAD

BRIAN KIERATH
PROFESSIONAL ENGINEER
PE-2023008624



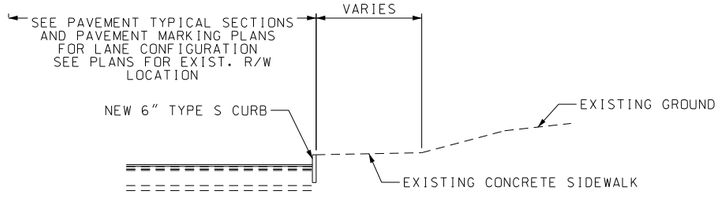
TYPICAL SIDEWALK SECTION
US ROUTE 100 MANCHESTER RD (RT)
(1)

STA. 1432+02.54 TO STA. 1434+59.12
STA. 1435+11.98 TO STA. 1437+01.33
STA. 1437+22.50 TO STA. 1437+44.05
STA. 1437+76.49 TO STA. 1439+20.68
STA. 1440+20.76 TO STA. 1441+32.88
STA. 1441+77.44 TO STA. 1446+94.05
STA. 1447+29.80 TO STA. 1447+83.39
STA. 1448+18.42 TO STA. 1448+86.04
STA. 1449+14.97 TO STA. 1450+94.23
STA. 1451+26.82 TO STA. 1452+07.10
STA. 1454+56.11 TO STA. 1456+55.14
STA. 1456+97.07 TO STA. 1463+17.92
STA. 1478+49.17 TO STA. 1479+16.80
STA. 1478+78.58 TO STA. 1483+14.64
STA. 1479+10.37 TO STA. 1476+62.00
STA. 1484+59.00 TO STA. 1486+61.00
STA. 1488+87.46 TO STA. 1490+73.51
STA. 1490+88.95 TO STA. 1491+07.52
STA. 1503+14.76 TO STA. 1503+83.14
STA. 1503+93.34 TO STA. 1504+05.91
STA. 1520+11.46 TO STA. 1520+17.82
STA. 1520+29.95 TO STA. 1521+73.09
STA. 1536+75.73 TO STA. 1536+90.06
STA. 1537+86.03 TO STA. 1538+10.46
STA. 1563+00.01 TO STA. 1568+09.53
STA. 1569+59.10 TO STA. 1569+66.29
STA. 1578+71.13 TO STA. 1578+79.49
STA. 1587+49.92 TO STA. 1591+40.29



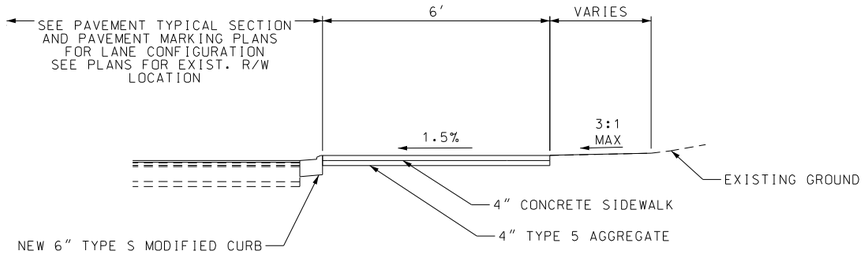
TYPICAL SIDEWALK SECTION
US ROUTE 100 MANCHESTER RD (RT)
(2)

STA. 1456+73.19 TO STA. 1456+85.35
STA. 1487+75.90 TO STA. 1488+87.46
STA. 1502+95.20 TO STA. 1503+20.87
STA. 1554+01.94 TO STA. 1562+45.82
STA. 1566+11.40 TO STA. 1567+27.16
STA. 1587+35.02 TO STA. 1587+90.66
STA. 1536+93.74 TO STA. 1538+19.20
STA. 1540+07.44 TO STA. 1540+55.83
STA. 1552+53.59 TO STA. 1563+00.01
STA. 1568+08.06 TO STA. 1569+47.76
STA. 1591+60.86 TO STA. 1592+71.87



TYPICAL SIDEWALK
SECTION US ROUTE 100 (RT)
(3)

STA. 1491+94.34 TO STA. 1492+04.50
STA. 1492+19.50 TO STA. 1492+29.35



TYPICAL SIDEWALK SECTION
US ROUTE 100 MANCHESTER RD (RT)
(4)

STA. 1539+85.63 TO STA. 1540+55.83

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STATE OF MISSOURI
BRIAN D. KIERATH JR.
NUMBER PE-2023008624
PROFESSIONAL ENGINEER
04/01/2025 10:40:21 AM
Brian D. Kierath Jr. - Civil
MO PE-2023008624

DATE PREPARED: 4/1/2025
ROUTE: 100 | STATE: MO
DISTRICT: SL | SHEET NO.: 2
COUNTY: ST. LOUIS
JOB NO.: J6P3274
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)

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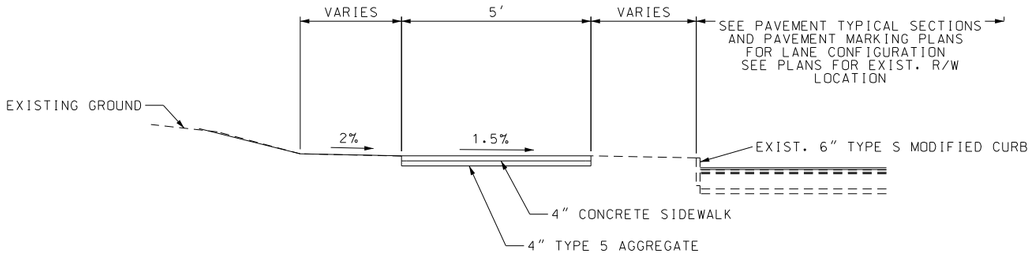
GEORGE BUTLER
ASSOCIATES, INC.
PRO. ENGINEER 000133
ARCHITECT 000212
PRO. LAND SURVEYOR 000059

BRIAN KIERATH
PROFESSIONAL
ENGINEER
PE-2023008624

SHEET 12 OF 14

TYPICAL SECTION

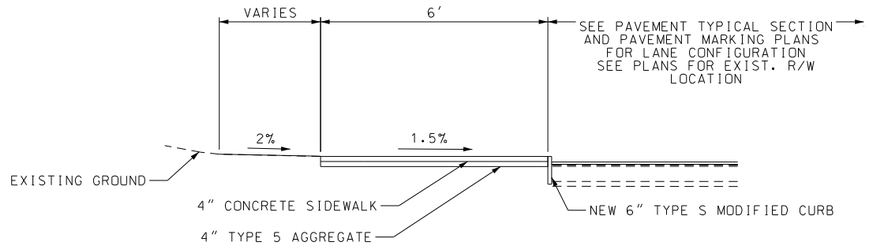
MO ROUTE 100
MANCHESTER ROAD



TYPICAL SIDEWALK SECTION US ROUTE 100 (LT)

(5)

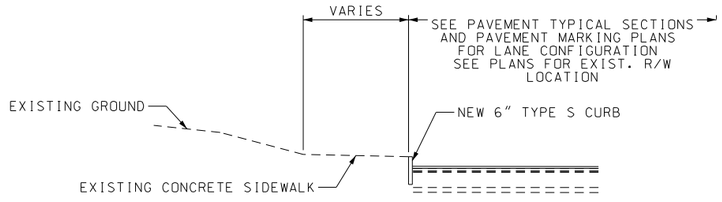
STA. 1418+97.93 TO STA. 1420+20.36
STA. 1420+31.55 TO STA. 1421+05.81
STA. 1421+19.00 TO STA. 1422+11.34
STA. 1422+54.54 TO STA. 1423+40.23
STA. 1431+64.83 TO STA. 1433+83.43
STA. 1433+32.98 TO STA. 1437+73.25
STA. 1437+05.22 TO STA. 1437+73.25
STA. 1440+27.03 TO STA. 1441+20.36
STA. 1442+16.00 TO STA. 1445+88.00
STA. 1446+23.78 TO STA. 1447+65.89
STA. 1449+72.66 TO STA. 1451+02.89
STA. 1451+29.83 TO STA. 1451+63.32
STA. 1454+59.99 TO STA. 1454+73.40
STA. 1455+70.28 TO STA. 1456+88.77
STA. 1457+18.52 TO STA. 1457+96.43
STA. 1458+26.81 TO STA. 1459+02.75
STA. 1459+31.87 TO STA. 1460.06.18
STA. 1460+35.26 TO STA. 1461+54.00
STA. 1461+90.89 TO STA. 1463+81.60
STA. 1464+17.18 TO STA. 1465+20.78
STA. 1479+39.77 TO STA. 1486+57.36
STA. 1489+51.46 TO STA. 1489+61.88
STA. 1489+94.31 TO STA. 1491+65.76
STA. 1496+59.48 TO STA. 1498+60.14
STA. 1498+98.16 TO STA. 1503+13.74
STA. 1503+26.20 TO STA. 1503+79.45
STA. 1503+90.54 TO STA. 1506+01.82
STA. 1509+86.82 TO STA. 1510+19.68
STA. 1513+96.05 TO STA. 1515+52.61
STA. 1519+42.07 TO STA. 1520+19.06
STA. 1523+63.41 TO STA. 1524+00.27
STA. 1528+05.68 TO STA. 1528+58.51
STA. 1528+99.29 TO STA. 1529+22.73
STA. 1536+53.10 TO STA. 1536+64.89
STA. 1554+44.43 TO STA. 1555+35.03



TYPICAL SIDEWALK SECTION US ROUTE 100 (LT)

(6)

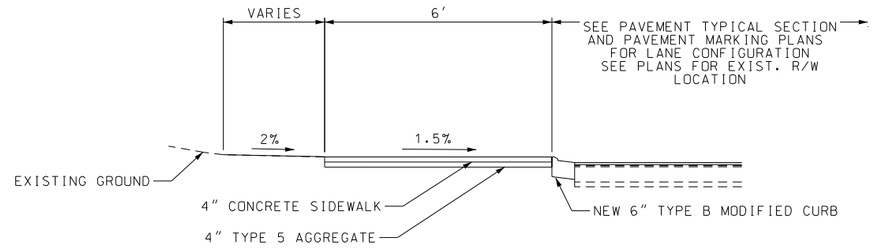
STA. 1467+09.86 TO STA. 1469+31.55
STA. 1485+87.02 TO STA. 1488+16.85
STA. 1487+78.42 TO STA. 1488+16.85
STA. 1491+65.76 TO STA. 1492+07.15
STA. 1492+17.73 TO STA. 1492+82.38
STA. 1492+93.73 TO STA. 1495+76.07
STA. 1494+80.42 TO STA. 1495+76.07
STA. 1505+26.49 TO STA. 1506+74.41
STA. 1508+79.79 TO STA. 1509+39.73
STA. 1512+75.77 TO STA. 1513+94.68
STA. 1515+91.10 TO STA. 1519+29.96
STA. 1522+33.72 TO STA. 1523+51.09
STA. 1524+02.99 TO STA. 1527+56.14
STA. 1529+58.00 TO STA. 1530+31.42
STA. 1530+68.26 TO STA. 1513+19.80
STA. 1531+80.56 TO STA. 1532+98.02
STA. 1533+57.10 TO STA. 1534+09.80
STA. 1534+96.18 TO STA. 1535+73.50
STA. 1538+21.92 TO STA. 1541+86.73
STA. 1542+17.94 TO STA. 1549+22.06
STA. 1549+60.21 TO STA. 1553+42.82
STA. 1555+35.03 TO STA. 1563+33.20
STA. 1566+24.88 TO STA. 1567+55.46
STA. 1582+17.51 TO STA. 1583+62.34
STA. 1584+50.74 TO STA. 1586+96.66
STA. 1591+32.40 TO STA. 1592+07.99



TYPICAL SIDEWALK SECTION US ROUTE 100 (LT)

(7)

STA. 1554+24.04 TO STA. 1554+36.32
STA. 1577+00.25 TO STA. 1578+98.05



TYPICAL SIDEWALK SECTION US ROUTE 100 (LT)

(8)

STA. 1536+75.52 TO STA. 1537+87.71
STA. 1563+33.20 TO STA. 1566+24.88
STA. 1577+59.09 TO STA. 1578+68.60

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BRIAN D. KIERATH JR.
NUMBER PE-2023008624
PROFESSIONAL ENGINEER
04/01/2025 10:40:22 AM
Brian D. Kierath Jr. - Civil
MO PE-2023008624

DATE PREPARED 4/1/2025
ROUTE 100 | STATE MO
DISTRICT SL | SHEET NO. 2
COUNTY ST. LOUIS
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GEORGE BUTLER ASSOCIATES, INC.
PRO. ENGINEER 000133
ARCHITECT 000212
PRO. LAND SURVEYOR 000059

SHEET 13 OF 14

TYPICAL SECTION

MO ROUTE 100
MANCHESTER ROAD

BRIAN KIERATH
PROFESSIONAL ENGINEER
PE-2023008624

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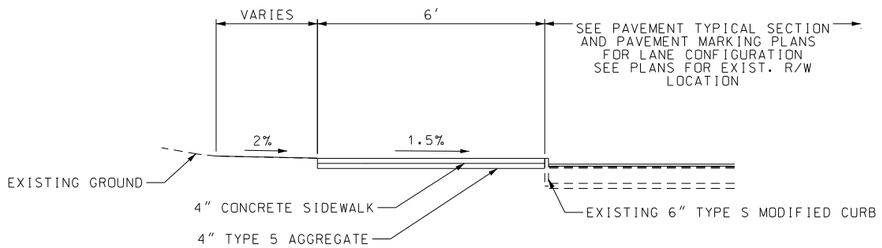
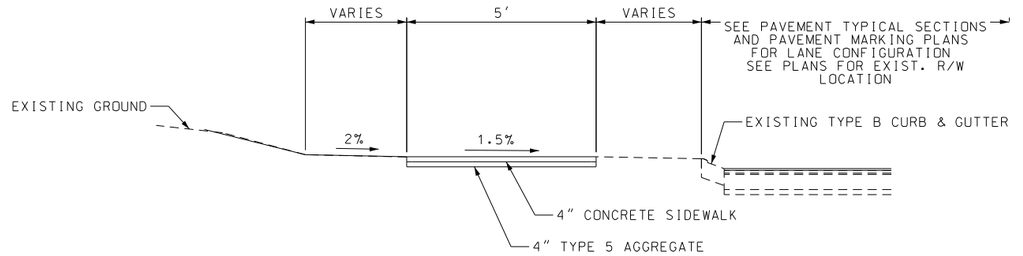


TYPICAL SIDEWALK
SECTION US ROUTE 100 (LT)

(9)

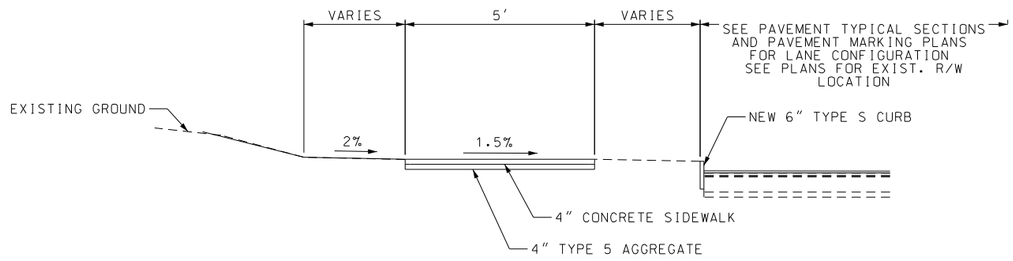
STA. 1438+04.03 TO STA. 1438+58.89
STA. 1448+03.86 TO STA. 1449+43.13
STA. 1465+20.78 TO STA. 1466+76.22
STA. 1506+55.16 TO STA. 1508+29.19
STA. 1510+61.82 TO STA. 1512+39.07
STA. 1520+31.00 TO STA. 1521+90.89
STA. 1534+96.18 TO STA. 1535+05.29



TYPICAL SIDEWALK
SECTION US ROUTE 100 (LT)

(10)

STA. 1567+55.46 TO STA. 1570+50.04



TYPICAL SIDEWALK
SECTION US ROUTE 100 (LT)

(11)

STA. 1583+58.16 TO STA. 1584+50.74
STA. 1587+07.17 TO STA. 1591+25.26

SHEET 14 OF 14

TYPICAL SECTION

MO ROUTE 100
MANCHESTER ROAD

STATE OF MISSOURI
BRIAN D. KIERATH JR.
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PROFESSIONAL ENGINEER
04/01/2025 10:40:22 AM
Brian D. Kierath Jr. - Civil
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DATE PREPARED
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PRO. LAND SURVEYOR 000059

BRIAN KIERATH
PROFESSIONAL
ENGINEER
PE-2023008624

REMOVAL OF IMPROVEMENTS - 1 LUMP SUM (1 OF 4)

SHEET NO.	ROADWAY	STATION BEGIN	STATION END	LOCATION	LENGTH (FEET)	WIDTH (FEET)	AREA (SF)	AREA (SY)	EACH	DESCRIPTION OF REMOVAL
7	EB RTE 100	1408+64.25	1409+85.74	RT	121.56	-	-	-	-	EXISTING GUARDRAIL
7	EB RTE 100	1409+43.50	1410+15.63	LT	72.37	-	-	-	-	EXISTING GUARDRAIL
7	EB RTE 100	1410+37.04	1410+60.21	LT/RT	90.82	-	-	-	-	CLEAR OUT EXISTING DITCH AT BASE OF CONCRETE SLOPE
8	EB RTE 100	1413+04.84	1413+49.28	RT	44.48	-	-	-	-	EXISTING GUARDRAIL
8	EB RTE 100	1413+33.90	1414+63.97	LT	130.08	-	-	-	-	EXISTING GUARDRAIL
8 9	EB RTE 100	1416+33.04	1418+54.46	LT	-	VARIES	706.56	78.51	-	SIDEWALK AND CURB RAMP
9	EB RTE 100	1418+97.62	1420+24.03	LT	-	VARIES	552.49	61.39	-	SIDEWALK AND CURB RAMP
9	EB RTE 100	1420+34.80	1421+07.30	LT	-	VARIES	352.76	39.20	-	SIDEWALK AND CURB RAMP
9	EB RTE 100	1421+19.11	1422+11.89	LT	-	VARIES	418.83	46.54	-	SIDEWALK AND CURB RAMP
9 10	EB RTE 100	1422+54.17	1423+42.45	LT	-	VARIES	357.93	39.77	-	SIDEWALK AND CURB RAMP
10	EB RTE 100	1424+34.33	1425+09.23	RT	72.68	-	-	-	-	EXISTING GUARDRAIL
10	EB RTE 100	1424+87.68	1425+56.80	LT	71.80	-	-	-	-	EXISTING GUARDRAIL
10	EB RTE 100	1426+74.97	1427+44.61	LT	72.68	-	-	-	-	EXISTING GUARDRAIL
10	EB RTE 100	1426+87.64	1427+63.47	RT	73.18	-	-	-	-	EXISTING GUARDRAIL
11	EB RTE 100	1429+63.00	1431+35.89	RT	-	VARIES	609.59	67.73	-	SIDEWALK AND CURB RAMP
11	EB RTE 100	1431+03.26	1431+24.86	LT	-	VARIES	79.88	8.88	-	SIDEWALK AND CURB RAMP
11 12	EB RTE 100	1431+63.77	1433+89.31	LT	-	VARIES	1017.36	113.04	-	SIDEWALK AND CURB RAMP
11 12	EB RTE 100	1432+01.92	1434+59.72	RT	-	VARIES	1005.01	111.67	-	SIDEWALK AND CURB RAMP
12	EB RTE 100	1434+36.84	1436+36.07	LT	-	VARIES	906.45	100.72	-	SIDEWALK AND CURB RAMP
12	EB RTE 100	1435+11.41	1437+01.39	RT	-	VARIES	751.85	83.54	-	SIDEWALK AND CURB RAMP
12	EB RTE 100	1437+05.30	1437+71.33	LT	-	VARIES	253.91	28.21	-	SIDEWALK AND CURB RAMP
12	EB RTE 100	1437+22.15	1437+44.27	RT	-	VARIES	97.14	10.79	-	SIDEWALK AND CURB RAMP
12	EB RTE 100	1437+32.74	1437+87.75	RT	-	VARIES	410.84	45.65	-	PAVED APPROACH (INCLUDES ANY CURB)
12 13	EB RTE 100	1437+76.16	1439+21.33	RT	-	VARIES	572.97	63.66	-	SIDEWALK AND CURB RAMP
12	EB RTE 100	1437+89.00	-	LT	-	VARIES	656.13	72.90	-	PAVED APPROACH (INCLUDES ANY CURB)
13	EB RTE 100	1438+04.24	1438+58.75	LT	-	VARIES	292.02	32.45	-	SIDEWALK AND CURB RAMP
13	EB RTE 100	1438+74.00	-	LT	-	VARIES	414.40	46.04	-	PAVED APPROACH (INCLUDES ANY CURB)
13	EB RTE 100	1439+20.73	1439+28.99	LT	-	VARIES	52.03	5.78	-	SIDEWALK AND CURB RAMP
13	EB RTE 100	1439+47.00	-	RT	-	VARIES	428.02	47.56	-	PAVED APPROACH (INCLUDES ANY CURB)
13	EB RTE 100	1439+53.26	1439+79.79	RT	-	VARIES	107.72	11.97	-	SIDEWALK AND CURB RAMP
13	EB RTE 100	1440+20.66	1441+33.21	RT	-	VARIES	473.89	52.65	-	SIDEWALK AND CURB RAMP
13	EB RTE 100	1440+25.95	1441+20.28	LT	-	VARIES	348.31	38.70	-	SIDEWALK AND CURB RAMP
13 14	EB RTE 100	1441+65.00	1446+84.00	RT	-	VARIES	7424.43	824.94	-	EXISTING SHOULDER
13 14	EB RTE 100	1441+77.44	1444+83.69	RT	-	VARIES	1096.01	121.78	-	SIDEWALK AND CURB RAMP
13 14	EB RTE 100	1442+16.27	1445+62.00	LT	-	VARIES	2306.26	256.25	-	SIDEWALK AND CURB RAMP
14	EB RTE 100	1445+38.35	1445+85.79	RT	48.13	-	-	-	-	EXISTING BARRIER
14	EB RTE 100	1445+98.39	1446+94.05	RT	-	VARIES	393.26	43.70	-	SIDEWALK AND CURB RAMP
14	EB RTE 100	1446+22.83	1447+66.72	LT	-	VARIES	541.68	60.19	-	SIDEWALK AND CURB RAMP
14	EB RTE 100	1447+12.00	-	RT	-	VARIES	428.02	47.56	-	PAVED APPROACH (INCLUDES ANY CURB)
14	EB RTE 100	1447+29.58	1447+83.42	RT	-	VARIES	211.05	23.45	-	SIDEWALK AND CURB RAMP
15	EB RTE 100	1448+03.32	1449+46.23	LT	-	VARIES	573.99	63.78	-	SIDEWALK AND CURB RAMP
15	EB RTE 100	1448+18.48	1448+86.80	RT	-	VARIES	271.70	30.19	-	SIDEWALK AND CURB RAMP
15	EB RTE 100	1449+13.68	1450+94.52	RT	-	VARIES	730.75	81.19	-	SIDEWALK AND CURB RAMP
15	EB RTE 100	1449+58.00	-	LT	-	VARIES	607.85	67.54	-	PAVED APPROACH (INCLUDES ANY CURB)
15	EB RTE 100	1451+12.00	-	RT	-	VARIES	587.95	65.33	-	PAVED APPROACH (INCLUDES ANY CURB)
15	EB RTE 100	1451+15.00	-	LT	-	VARIES	551.42	61.27	-	PAVED APPROACH (INCLUDES ANY CURB)
15	EB RTE 100	1451+28.96	1451+52.93	LT	-	VARIES	112.98	12.55	-	SIDEWALK AND CURB RAMP
15	EB RTE 100	1451+30.37	1452+07.28	RT	-	VARIES	324.90	36.10	-	SIDEWALK AND CURB RAMP
16	EB RTE 100	1454+55.59	1456+55.05	RT	-	VARIES	824.65	91.63	-	SIDEWALK AND CURB RAMP
16	EB RTE 100	1454+64.98	1454+74.66	LT	-	VARIES	44.98	5.00	-	SIDEWALK AND CURB RAMP
16	EB RTE 100	1454+75.00	1456+25.00	RT	-	-	-	-	11	TREES
16	EB RTE 100	1455+08.36	1455+46.27	LT	-	VARIES	190.39	21.15	-	SIDEWALK AND CURB RAMP
16	EB RTE 100	1455+58.00	-	LT	-	VARIES	321.21	35.69	-	PAVED APPROACH (INCLUDES ANY CURB)
16	EB RTE 100	1455+69.96	1456+89.29	LT	-	VARIES	480.61	53.40	-	SIDEWALK AND CURB RAMP
16 17	EB RTE 100	1456+97.81	1461+86.77	RT	-	VARIES	1950.45	216.72	-	SIDEWALK AND CURB RAMP
16	EB RTE 100	1457+18.13	1457+97.01	LT	-	VARIES	319.73	35.53	-	SIDEWALK AND CURB RAMP
17	EB RTE 100	1458+26.20	1459+02.62	LT	-	VARIES	318.51	35.39	-	SIDEWALK AND CURB RAMP
17	EB RTE 100	1459+13.00	-	LT	-	VARIES	354.41	39.38	-	PAVED APPROACH (INCLUDES ANY CURB)
17	EB RTE 100	1459+32.09	1460+06.85	LT	-	VARIES	303.56	33.73	-	SIDEWALK AND CURB RAMP
17	EB RTE 100	1460+34.73	1461+61.19	LT	-	VARIES	548.02	60.89	-	SIDEWALK AND CURB RAMP
17	EB RTE 100	1461+73.00	-	LT	-	VARIES	948.85	105.43	-	PAVED APPROACH (INCLUDES ANY CURB)
17 18	EB RTE 100	1461+84.03	1463+87.16	LT	-	VARIES	809.05	89.89	-	SIDEWALK AND CURB RAMP
18	EB RTE 100	1464+00.00	-	LT	-	VARIES	771.17	85.69	-	PAVED APPROACH (INCLUDES ANY CURB)
18	EB RTE 100	1464+12.57	1466+78.23	LT	-	VARIES	1084.40	120.49	-	SIDEWALK AND CURB RAMP
18	EB RTE 100	1466+93.00	-	LT	-	VARIES	628.34	69.82	-	PAVED APPROACH (INCLUDES ANY CURB)
18 19	RTE 100	1467+07.74	1469+34.00	LT	-	VARIES	1045.72	116.19	-	SIDEWALK AND CURB RAMP
19	RTE 100	1470+34.00	-	RT	-	-	-	-	1	SAND BARREL ARRAY
19	RTE 100	1470+03.32	1470+33.75	RT	-	VARIES	320.90	35.66	-	MEDIAN ISLAND
20 21	RTE 100	1474+85.69	1479+36.77	RT	-	VARIES	2252.79	250.31	-	SIDEWALK AND CURB RAMP
21	RTE 100	1479+10.56	1479+82.67	RT	-	VARIES	863.49	95.94	-	SIDEWALK AND CURB RAMP
21	RTE 100	1481+37.17	-	RT	-	-	-	-	1	CANTILEVER OVERHEAD SIGN
21-23	RTE 100	1479+39.40	1486+57.36	LT	-	VARIES	2867.41	318.60	-	SIDEWALK AND CURB RAMP
22 23	RTE 100	1484+58.47	1486+60.98	RT	-	VARIES	643.58	71.51	-	SIDEWALK AND CURB RAMP
23	RTE 100	1485+25.64	1485+38.37	LT	-	VARIES	71.78	7.98	-	EXISTING CONCRETE PAD
23 24	RTE 100	1487+75.77	1490+71.86	RT	-	VARIES	1339.77	148.86	-	SIDEWALK AND CURB RAMP
23	RTE 100	1487+78.69	1488+17.01	LT	-	VARIES	245.57	27.29	-	SIDEWALK AND CURB RAMP
23 24	RTE 100	1487+87.42	1493+32.21	RT	545.00	4.00	2219.66	246.63	-	MEDIAN STRIP

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STATE OF MISSOURI
BRIAN D. KIERATH JR.
NUMBER PE-2023008624
PROFESSIONAL ENGINEER
04/01/2025 10:40:22 AM
Brian D. Kierath Jr. - Civil
MO PE-2023008624

DATE PREPARED
4/1/2025

ROUTE	STATE
100	MO
DISTRICT	SHEET NO.
SL	3

COUNTY
ST. LOUIS

JOB NO.
J6P3274

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)

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16305 SWINGLEY RIDGE RD
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CHESTERFIELD, MO 63017
314.231.0100
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GEORGE BUTLER ASSOCIATES, INC.
PRO. ENGINEER 000133
ARCHITECT 000212
PRO. LAND SURVEYOR 000059

BRIAN KIERATH
PROFESSIONAL ENGINEER
PE-2023008624

SHEET 1 OF 20

QUANTITIES

MO ROUTE 100
MANCHESTER ROAD

REMOVAL OF IMPROVEMENTS - 1 LUMP SUM (2 OF 4)

SHEET NO.	ROADWAY	STATION BEGIN	STATION END	LOCATION	LENGTH (FEET)	WIDTH (FEET)	AREA (SF)	AREA (SY)	EACH	DESCRIPTION OF REMOVAL
23	RTE 100	1489+56.43	1489+62.91	LT	-	VARIES	39.79	4.42	-	SIDEWALK AND CURB RAMP
23	RTE 100	1489+82.00	-	LT	-	VARIES	736.22	81.80	-	PAVED APPROACH (INCLUDES ANY CURB)
23	RTE 100	1489+93.42	1490+00.22	LT	-	VARIES	38.16	4.24	-	SIDEWALK AND CURB RAMP
23	RTE 100	1490+07.21	1490+12.25	LT	-	VARIES	24.85	2.76	-	SIDEWALK AND CURB RAMP
24	RTE 100	1490+27.09	1491+82.86	LT	-	VARIES	666.13	74.01	-	SIDEWALK AND CURB RAMP
24	RTE 100	1490+50.00	-	RT	-	VARIES	414.85	46.09	-	PAVED APPROACH (INCLUDES ANY CURB)
24	RTE 100	1490+89.04	1491+08.19	RT	-	VARIES	84.24	9.36	-	SIDEWALK AND CURB RAMP
24	RTE 100	1491+24.29	1491+48.64	RT	-	VARIES	103.98	11.55	-	SIDEWALK AND CURB RAMP
24	RTE 100	1492+12.00	-	RT	-	VARIES	192.97	21.44	-	PAVED APPROACH (INCLUDES ANY CURB)
24	RTE 100	1492+28.18	1492+91.83	LT	-	VARIES	130.46	14.50	-	EXISTING ISLAND (FOR TTC)
24	RTE 100	1493+09.57	1494+25.56	RT	116.13	-	-	-	-	EXISTING GUARDRAIL
24	RTE 100	1492+67.95	1494+31.34	LT	261.96	-	-	-	-	EXISTING GUARDRAIL
24	RTE 100	1493+30.00	1494+16.00	BL	-	VARIES	8307.32	923.04	-	EXISTING PAVEMENT
24	RTE 100	1494+15.11	-	LT	-	-	-	-	1	OVERHEAD CANTILEVER SIGN
24	RTE 100	1494+66.00	-	LT	-	VARIES	316.64	35.18	-	PAVED APPROACH (INCLUDES ANY CURB)
24 25	RTE 100	1494+80.35	1495+76.48	LT	-	VARIES	368.55	40.95	-	SIDEWALK AND CURB RAMP
25	RTE 100	1496+04.34	1496+33.43	LT	-	VARIES	111.21	12.36	-	SIDEWALK AND CURB RAMP
25	RTE 100	1496+56.06	1498+65.59	LT	-	VARIES	903.04	100.34	-	SIDEWALK AND CURB RAMP
25	RTE 100	1496+58.00	-	LT	-	VARIES	728.41	80.93	-	PAVED APPROACH (INCLUDES ANY CURB)
25 26	RTE 100	1498+94.02	1503+02.69	LT	-	VARIES	1905.21	211.69	-	SIDEWALK AND CURB RAMP
26	RTE 100	1503+13.62	1503+20.71	RT	-	VARIES	51.04	5.67	-	SIDEWALK AND CURB RAMP
26	RTE 100	1503+22.68	1503+35.07	LT	-	VARIES	112.24	12.47	-	EXISTING ISLAND
26	RTE 100	1503+65.75	1503+86.62	LT	-	VARIES	222.09	24.68	-	EXISTING ISLAND
27	RTE 100	1506+34.00	-	LT	-	VARIES	1345.92	149.55	-	PAVED APPROACH (INCLUDES ANY CURB)
27	RTE 100	1506+71.29	-	LT	-	-	-	-	1	EXISTING POLE
27	RTE 100	1508+57.00	-	LT	-	VARIES	1528.05	169.78	-	PAVED APPROACH (INCLUDES ANY CURB)
28	RTE 100	1510+38.00	-	LT	-	VARIES	1219.24	135.47	-	PAVED APPROACH (INCLUDES ANY CURB)
28	RTE 100	1512+18.60	1512+41.26	LT	37.88	-	-	-	-	EXISTING CURB
28	RTE 100	1512+58.00	-	LT	-	VARIES	2569.09	285.45	-	PAVED APPROACH (INCLUDES ANY CURB)
28	RTE 100	1512+87.55	1513+49.59	LT	-	VARIES	1055.95	117.33	-	EXISTING ENTRANCE PAVEMENT
28	RTE 100	1512+89.55	1513+05.92	LT	-	VARIES	74.74	8.30	-	SIDEWALK AND CURB RAMP
28	RTE 100	1513+05.06	1513+06.18	LT	10.92	-	-	-	-	EXISTING CURB AT ENTRANCE
28 29	RTE 100	1513+34.67	1515+55.72	LT	-	VARIES	917.80	101.98	-	EXISTING SIDEWALK
28	RTE 100	1513+34.82	1513+37.02	LT	16.81	-	-	-	-	EXISTING CURB AT ENTRANCE
28	RTE 100	1513+92.61	-	LT	-	-	-	-	2	EXISTING SIGNS
28	RTE 100	1513+92.62	-	LT	-	-	-	-	1	EXISTING SIGN
29	RTE 100	1515+70.00	-	LT	-	VARIES	1630.42	181.16	-	PAVED APPROACH (INCLUDES ANY CURB)
29	RTE 100	1515+85.24	1518+05.65	LT	-	VARIES	905.04	100.56	-	SIDEWALK AND CURB RAMP
29 30	RTE 100	1515+85.33	1519+36.87	LT	371.96	-	-	-	-	EXISTING CURB
30	RTE 100	1520+02.98	1520+22.08	LT	-	VARIES	214.32	23.81	-	EXISTING ISLAND
30	RTE 100	1520+36.06	1521+91.51	LT	-	VARIES	722.35	80.26	-	SIDEWALK AND CURB RAMP
30	RTE 100	1522+12.00	-	LT	-	VARIES	1555.14	172.79	-	PAVED APPROACH (INCLUDES ANY CURB)
30 31	RTE 100	1522+33.89	1523+50.75	LT	-	VARIES	548.95	60.99	-	EXISTING SIDEWALK
31	RTE 100	1523+81.93	1524+16.70	LT	-	VARIES	58.72	6.52	-	EXISTING ISLAND (FOR TTC)
31	RTE 100	1524+03.28	1527+55.88	LT	-	VARIES	1514.96	168.33	-	SIDEWALK AND CURB RAMP
31	RTE 100	1525+88.91	1527+49.25	LT	202.57	-	-	-	-	EXISTING GUARDRAIL
31 32	RTE 100	1526+23.69	1528+22.61	RT	202.24	-	-	-	-	EXISTING GUARDRAIL
31	RTE 100	1526+40.00	1527+60.00	BL	-	VARIES	8715.16	968.35	-	EXISTING PAVEMENT
31	RTE 100	1524+62.35	1526+54.00	LT	-	VARIES	1517.33	168.59	-	EXISTING SHOULDER
31	RTE 100	1526+60.65	-	LT	-	-	-	-	1	EXISTING INLET
32	RTE 100	1528+33.22	-	-	-	-	-	-	1	EXISTING INLET
32	RTE 100	1528+11.49	1528+62.97	LT	-	VARIES	217.00	24.11	-	SIDEWALK AND CURB RAMP
32	RTE 100	1528+80.00	-	LT	-	VARIES	1279.14	142.13	-	PAVED APPROACH (INCLUDES ANY CURB)
32	RTE 100	1528+98.22	1529+23.93	LT	-	VARIES	111.06	12.34	-	SIDEWALK AND CURB RAMP
32	RTE 100	1529+39.00	-	LT	-	VARIES	877.96	97.55	-	PAVED APPROACH (INCLUDES ANY CURB)
32	RTE 100	1529+66.78	-	LR	-	-	-	-	1	EXISTING INLET
32	RTE 100	1529+70.00	1533+74.25	LT	-	VARIES	5407.85	600.87	-	EXISTING SHOULDER
32	RTE 100	1531+52.00	-	LT	-	VARIES	1580.15	175.57	-	PAVED APPROACH (INCLUDES ANY CURB)
33	RTE 100	1533+28.00	-	LT	-	VARIES	1341.42	149.05	-	PAVED APPROACH (INCLUDES ANY CURB)
33	RTE 100	1533+67.38	1534+01.32	LT	-	VARIES	200.25	22.25	-	SIDEWALK AND CURB RAMP
33	RTE 100	1534+44.98	1534+52.94	LT	-	VARIES	41.57	4.62	-	SIDEWALK AND CURB RAMP
33	RTE 100	1534+95.61	1535+05.32	LT	-	VARIES	49.80	5.53	-	SIDEWALK AND CURB RAMP
33	RTE 100	1535+19.45	1535+27.49	LT	-	VARIES	49.52	5.50	-	SIDEWALK AND CURB RAMP
33	RTE 100	1535+63.53	1535+73.33	LT	-	VARIES	56.54	6.28	-	SIDEWALK AND CURB RAMP
34	RTE 100	1536+47.16	1536+74.21	LT	-	VARIES	232	26	-	SIDEWALK AND CURB RAMP
34	RTE 100	1536+59.99	1536+73.86	LT	24	-	-	-	-	CURB AND GUTTER
34	RTE 100	1536+75.52	1537+02.93	LT	-	VARIES	241	27	-	ISLAND FOR CUT-THROUGH
34	RTE 100	1536+74.75	1536+89.75	RT	-	VARIES	125	14	-	SIDEWALK AND CURB RAMP
34	RTE 100	1536+93.74	1537+10.33	RT	-	VARIES	141	16	-	ISLAND FOR CUT-THROUGH
34	RTE 100	1537+53.67	1537+70.92	LT	-	VARIES	150	17	-	ISLAND FOR CUT-THROUGH
34	RTE 100	1537+64.41	1538+00.12	RT	-	VARIES	294	33	-	ISLAND FOR CUT-THROUGH
34	RTE 100	1537+70.09	1537+92.11	LT	-	VARIES	183	20	-	SIDEWALK AND CURB RAMP
34	RTE 100	1537+67.78	1539+04.17	LT	144	VARIES	106	12	-	PAVEMENT AND CURB AND GUTTER
34	RTE 100	1537+86.42	1540+43.18	RT	330	VARIES	451	50	-	PAVEMENT AND CURB AND GUTTER
34	RTE 100	1537+96.59	1540+32.28	RT	-	VARIES	1619	180	-	SIDEWALK AND CURB RAMP AND BUS PAD

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STATE OF MISSOURI
BRIAN D. KIERATH JR.
NUMBER PE-2023008624
PROFESSIONAL ENGINEER
04/01/2025 10:40:23 AM
Brian D. Kierath Jr. - Civil
MO PE-2023008624

DATE PREPARED
4/1/2025

ROUTE	STATE
100	MO
DISTRICT	SHEET NO.
SL	3

COUNTY
ST. LOUIS

JOB NO.
J6P3274

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)

GBA
16305 SWINGLEY RIDGE RD
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CHESTERFIELD, MO 63017
314.231.0100
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GEORGE BUTLER
ASSOCIATES, INC.
PRO. ENGINEER 000133
ARCHITECT 000212
PRO. LAND SURVEYOR 000059

BRIAN KIERATH
PROFESSIONAL
ENGINEER
PE-2023008624

SHEET 2 OF 20

QUANTITIES

MO ROUTE 100
MANCHESTER ROAD

REMOVAL OF IMPROVEMENTS - 1 LUMP SUM (3 OF 4)

SHEET NO.	ROADWAY	STATION BEGIN	STATION END	LOCATION	LENGTH (FEET)	WIDTH (FEET)	AREA (SF)	AREA (SY)	EACH	DESCRIPTION OF REMOVAL
34	RTE 100	1538+73.80	1539+00.42	LT	26	-	-	-	-	CURB
34	RTE 100	1539+00.42	1539+45.17	LT	-	VARIES	128	14	-	PAVED APPROACH (INCLUDES ANY CURB)
34	RTE 100	1539+45.17	1539+76.40	LT	31	-	-	-	-	CURB
34	RTE 100	1539+45.17	1540+50.71	LT	106	VARIES	211	23	-	PAVEMENT AND CURB
34 35	RTE 100	1540+50.71	1541+11.31	LT	-	VARIES	546	61	-	PAVED APPROACH (INCLUDES ANY CURB)
35	RTE 100	1541+09.77	1541+77.41	LT	60	VARIES	65	7	-	PAVEMENT AND CURB
35	RTE 100	1541+69.93	1542+28.82	LT	-	VARIES	131	15	-	PAVED APPROACH (INCLUDES ANY CURB)
35	RTE 100	1542+28.82	1542+34.61	LT	6	-	-	-	-	CURB
35	RTE 100	1542+82.23	1542+97.74	LT	-	VARIES	91	10	-	BUS STOP PAD
35	RTE 100	1542+96.77	1543+31.93	LT	-	VARIES	175	19	-	PAVEMENT
35	RTE 100	1542+96.77	1544+56.42	LT	-	VARIES	2290	254	-	PAVED APPROACH (INCLUDES ANY CURB)
35	RTE 100	1544+23.04	1544+56.42	LT	-	VARIES	166	18	-	PAVEMENT
36	RTE 100	1547+58.70	1548+58.20	LT	-	VARIES	124	14	-	PAVEMENT
36	RTE 100	1547+71.86	1548+71.49	LT	108	-	-	-	-	FENCE (POSSIBLY ALREADY REMOVED)
36	RTE 100	1548+58.20	1549+73.75	LT	-	VARIES	1775	197	-	PAVED APPROACH (INCLUDES ANY CURB)
36	RTE 100	1549+07.42	1549+21.29	LT	-	VARIES	47	5	-	SIDEWALK
36	RTE 100	1549+60.90	1549+70.58	LT	-	VARIES	39	4	-	SIDEWALK
36 37	RTE 100	1549+73.75	1552+20.78	LT	51	VARIES	110	12	-	PAVEMENT AND CURB
37	RTE 100	1551+87.47	1552+40.82	LT	-	VARIES	278	31	-	SIDEWALK AND CURB RAMP
37	RTE 100	1552+25.25	1552+74.33	LT	-	VARIES	1464	163	-	ISLAND FOR REBUILD
37	RTE 100	1552+59.63	1552+83.90	RT	31	VARIES	10	1	-	PAVEMENT AND CURB
37	RTE 100	1553+08.03	1553+11.96	LT	-	VARIES	62	7	-	SIDEWALK AND CURB RAMP
37	RTE 100	1553+47.37	1555+49.88	RT	25	VARIES	769	85	-	PAVEMENT AND CURB
37	RTE 100	1554+24.04	1554+84.56	LT	-	VARIES	719	80	-	PAVED APPROACH (INCLUDES ANY CURB)
37	RTE 100	1554+84.56	1555+60.09	LT	-	VARIES	185	21	-	PAVEMENT AND BUS STOP PAD
37 38	RTE 100	1555+60.09	1556+39.61	LT	-	VARIES	670	74	-	PAVED APPROACH (INCLUDES ANY CURB)
38 39	RTE 100	1556+24.73	1563+00.69	RT	28	VARIES	3050	339	-	PAVEMENT AND CURB
38 39	RTE 100	1556+40.29	1561+15.92	LT	-	VARIES	1926	214	-	PAVED APPROACH (INCLUDES ANY CURB)
39	RTE 100	1561+90.66	1562+88.15	LT	51	VARIES	345	38	-	PAVEMENT AND CURB
39	RTE 100	1562+88.15	1563+47.44	LT	-	VARIES	833	93	-	PAVED APPROACH (INCLUDES ANY CURB)
39	RTE 100	1562+93.35	-	LT	-	-	-	-	1	ROCK
39	RTE 100	1563+47.44	1565+81.17	LT	234	VARIES	659	73	-	PAVEMENT AND CURB AND GUTTER
39 40	RTE 100	1565+31.10	1566+25.54	RT	-	VARIES	1187	132	-	PAVED APPROACH (INCLUDES ANY CURB)
39 40	RTE 100	1565+81.19	1566+33.90	LT	-	VARIES	504	56	-	PAVED APPROACH (INCLUDES ANY CURB)
40	RTE 100	1566+25.52	1567+53.95	RT	126	-	-	-	-	CURB
40	RTE 100	1566+33.66	1567+43.90	LT	112	VARIES	349	39	-	PAVEMENT AND CURB AND GUTTER
40	RTE 100	1566+66.29	-	RT	-	-	-	-	1	BRICK (UNKNOWN AMOUNT)
40	RTE 100	1567+43.90	1568+17.23	LT	-	VARIES	1356	151	-	PAVED APPROACH (INCLUDES ANY CURB)
40	RTE 100	1567+53.95	1568+18.65	RT	-	VARIES	928	103	-	PAVED APPROACH (INCLUDES ANY CURB)
40	RTE 100	1568+18.65	1569+48.47	RT	132	-	-	-	-	CURB
40	RTE 100	1569+59.10	1569+66.22	RT	-	VARIES	60	7	-	ISLAND FOR CUT-THROUGH
40	RTE 100	1570+22.38	1570+26.64	LT	-	VARIES	41	5	-	SIDEWALK AND CURB RAMP
42	RTE 100	1577+00.25	1579+00.41	LT	197	VARIES	37	4	-	PAVEMENT AND CURB AND GUTTER
42	RTE 100	1577+59.12	1577+77.64	LT	-	VARIES	194	22	-	BUS STOP PAD
42	RTE 100	1578+61.81	1578+68.66	LT	-	VARIES	85	9	-	SIDEWALK AND CURB RAMP
42	RTE 100	1578+62.28	1578+68.48	RT	-	VARIES	62	7	-	ISLAND FOR CUT-THROUGH
42	RTE 100	1578+71.13	1578+79.10	RT	-	VARIES	80	9	-	ISLAND FOR CUT-THROUGH
43	RTE 100	1581+13.51	1583+05.09	LT	-	VARIES	808	90	-	SIDEWALK
43	RTE 100	1582+17.49	1582+36.55	LT	-	VARIES	176	20	-	BUS STOP PAD
43	RTE 100	1582+16.36	1582+98.38	LT	55	VARIES	27	3	-	PAVEMENT AND CURB
43	RTE 100	1582+98.38	1583+71.24	LT	-	VARIES	1018	113	-	PAVED APPROACH (INCLUDES ANY CURB)
43	RTE 100	1583+58.35	1584+51.75	LT	-	VARIES	363	40	-	SIDEWALK
43	RTE 100	1583+71.24	1584+42.16	LT	71	VARIES	24	3	-	PAVEMENT AND CURB
43	RTE 100	1584+42.16	1584+97.19	LT	-	VARIES	951	106	-	PAVED APPROACH (INCLUDES ANY CURB)
43	RTE 100	1584+87.06	1585+68.62	LT	85	VARIES	356	40	-	WALL AND SLOPE PROTECTION
43	RTE 100	1584+88.94	1585+67.81	LT	-	VARIES	327	36	-	SIDEWALK AND CURB RAMP
43	RTE 100	1584+91.23	1585+68.22	LT	-	VARIES	304	34	-	PARKING LOT PAVEMENT
43	RTE 100	1584+53.57	1585+61.79	LT	68	-	-	-	-	CURB
43 44	RTE 100	1585+61.79	1586+10.73	LT	-	VARIES	554	62	-	PAVED APPROACH (INCLUDES ANY CURB)
44	RTE 100	1586+02.45	1586+96.61	LT	-	VARIES	202	22	-	SIDEWALK AND CURB RAMP
44	RTE 100	1586+10.58	1587+01.18	LT	78	-	-	-	-	CURB
44	RTE 100	1587+00.72	1587+41.46	RT	46	-	-	-	-	RETAINING WALL
44	RTE 100	1587+04.81	1588+75.07	LT	-	VARIES	1413	157	-	SIDEWALK AND CURB RAMPS
44	RTE 100	1587+04.81	1588+75.07	LT	187	-	-	-	-	CURB
44	RTE 100	1587+46.12	1588+62.85	RT	-	VARIES	649	72	-	SIDEWALK AND CURB RAMPS
44	RTE 100	1587+46.12	1588+62.85	RT	148	-	-	-	-	CURB
44	RTE 100	1587+48.72	1587+67.78	RT	36	-	-	-	-	CURB
44	RTE 100	1587+53.45	1587+64.45	RT	16	-	-	-	-	RETAINING WALL
44	RTE 100	1588+39.16	1588+49.65	RT	15	-	-	-	-	CONCRETE BLOCKS
44	RTE 100	1588+88.80	1589+78.83	RT	-	VARIES	2080	231	-	CURB RAMPS AND BRICK
44	RTE 100	1588+88.80	1589+78.83	RT	91	-	-	-	-	CURB
44	RTE 100	1588+97.28	1589+89.30	LT	-	VARIES	2201	245	-	CURB RAMPS AND BRICK
44	RTE 100	1588+97.28	1589+89.30	LT	95	-	-	-	-	CURB
44 45	RTE 100	1589+98.89	1591+43.44	RT	-	VARIES	1073	119	-	SIDEWALK AND CURB RAMPS
44 45	RTE 100	1589+98.89	1591+43.44	RT	154	-	-	-	-	CURB

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BRIAN D. KIERATH JR.
NUMBER PE-2023008624
PROFESSIONAL ENGINEER
04/01/2025 10:40:23 AM
Brian D. Kierath Jr. - Civil
MO PE-2023008624

DATE PREPARED
4/1/2025

ROUTE	STATE
100	MO
DISTRICT	SHEET NO.
SL	3

COUNTY
ST. LOUIS

JOB NO.
J6P3274

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)

GBA
16305 SWINGLEY RIDGE RD
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314.231.0100
GBAteam.com

GEORGE BUTLER
ASSOCIATES, INC.
PRO. ENGINEER 000133
ARCHITECT 000212
PRO. LAND SURVEYOR 000059

SHEET 3 OF 20

QUANTITIES

MO ROUTE 100
MANCHESTER ROAD

BRIAN KIERATH
PROFESSIONAL
ENGINEER
PE-2023008624

REMOVAL OF IMPROVEMENTS - 1 LUMP SUM (4 OF 4)

SHEET NO.	ROADWAY	STATION BEGIN	STATION END	LOCATION	LENGTH (FEET)	WIDTH (FEET)	AREA (SF)	AREA (SY)	EACH	DESCRIPTION OF REMOVAL
44 45	RTE 100	1590+09.27	1591+28.30	LT	-	VARIES	1149	128	-	SIDEWALK AND CURB RAMPS
44 45	RTE 100	1590+09.27	1591+28.30	LT	168	-	-	-	-	CURB
45	RTE 100	1591+32.08	1592+08.03	LT	-	-	393	44	-	SIDEWALK AND CURB RAMP
45	RTE 100	1591+32.08	1592+08.03	LT	72	-	-	-	-	CURB
45	RTE 100	1591+60.38	1592+71.70	RT	-	-	491	55	-	SIDEWALK AND CURB RAMP
45	RTE 100	1591+60.38	1592+71.70	RT	101	-	-	-	-	CURB
44	RTE 100	1587+02.74	-	RT	-	-	-	-	1	TREE
44	RTE 100	1587+52.55	-	RT	-	-	-	-	1	TREE
168	RTE 100	1486+87.42	1487+75.66	LT	-	-	-	-	8	PEDESTRIAN SIGNAL HEADS
168	RTE 100	1486+87.42	1487+75.66	LT	-	-	-	-	8	PEDESTRIAN PUSH BUTTONS AND SIGNS
168	RTE 100	1486+87.42	-	LT	-	-	-	-	1	PEDESTRIAN POLE
168	RTE 100	1487+83.66	-	LT	-	-	-	-	1	PEDESTRIAN POLE
174	RTE 100	1503+71.10	-	LT	-	-	-	-	1	SIGNAL HEAD
174	RTE 100	1503+71.10	-	LT	-	-	-	-	1	SIGNAL POLE
180	RTE 100	1519+45.24	1520+18.21	LT/RT	-	-	-	-	13	SIGNAL HEAD
180	RTE 100	1519+50.41	-	LT	-	-	-	-	1	PULL BOX
180	RTE 100	1519+50.78	-	LT	-	-	-	-	1	"SIGNAL POST
180	RTE 100	1519+44.10	-	RT	-	-	-	-	1	PULL BOX
180	RTE 100	1519+45.69	-	RT	-	-	-	-	1	SIGNAL POLE
180	RTE 100	1520+03.64	-	RT	-	-	-	-	1	PULL BOX
180	RTE 100	1520+06.24	-	RT	-	-	-	-	1	PULL BOX
180	RTE 100	1520+03.38	-	RT	-	-	-	-	1	"SIGNAL POST
180	RTE 100	1520+12.23	-	LT	-	-	-	-	1	SIGNAL POLE
180	RTE 100	1520+39.94	-	RT	-	-	-	-	1	PULL BOX
180	RTE 100	1520+42.73	-	RT	-	-	-	-	1	SIGNAL CONTROLLER
180	RTE 100	1520+44.08	-	RT	-	-	-	-	1	SIGNAL POWER SUPPLY
186	RTE 100	1536+96.15	1537+80.01	LT/RT	-	-	-	-	6	PEDESTRIAN SIGNAL HEADS
186	RTE 100	1536+96.15	1537+80.01	LT/RT	-	-	-	-	6	PEDESTRIAN PUSH BUTTONS AND SIGNS
192	RTE 100	1552+47.80	1553+58.67	LT/RT	-	-	-	-	1	VIDEO DETECTION SYSTEM
199	RTE 100	1563+37.65	-	LT	-	-	-	-	1	VIDEO DETECTION CAMERA
205	RTE 100	1569+31.95	-	RT	-	-	-	-	1	SIGNAL POWER SUPPLY
205	RTE 100	1569+41.03	-	RT	-	-	-	-	1	SIGNAL CONTROLLER
205	RTE 100	1569+49.30	-	RT	-	-	-	-	1	PULL BOX
205	RTE 100	1569+67.59	-	RT	-	-	-	-	1	SIGNAL POST AND MAST ARM
205	RTE 100	1570+28.88	-	RT	-	-	-	-	1	PULL BOX
205	RTE 100	1570+29.82	-	RT	-	-	-	-	1	SIGNAL POST AND MAST ARM
205	RTE 100	1570+30.07	-	LT	-	-	-	-	1	SIGNAL POST AND MAST ARM
205	RTE 100	1569+67.97	-	LT	-	-	-	-	1	PULL BOX
205	RTE 100	1569+56.17	-	LT	-	-	-	-	1	SIGNAL POST AND MAST ARM
211	RTE 100	1578+60.65	1579+88.53	LT/RT	-	-	-	-	1	VIDEO DETECTION SYSTEM
217	RTE 100	1588+64.42	-	LT	-	-	-	-	1	SIGNAL HEAD
217	RTE 100	1588+64.42	-	LT	-	-	-	-	1	"LEFT TURN SIGNAL" SIGN
217	RTE 100	1589+39.17	-	LT/RT	-	-	-	-	8	SIGNAL HEADS
217	RTE 100	1589+39.17	-	LT/RT	-	-	-	-	2	"LEFT TURN SIGNAL" SIG2
217	RTE 100	1590+15.54	-	RT	-	-	-	-	1	SIGNAL HEAD
217	RTE 100	1590+15.54	-	RT	-	-	-	-	1	"LEFT TURN SIGNAL" SIGN
46	WB RTE 100	1408+78.15	1409+68.93	LT	88.65	-	-	-	-	EXISTING GUARDRAIL
46	WB RTE 100	1409+08.08	-	LT	-	-	-	-	1	EXISTING SIGN
47	WB RTE 100	1413+62.26	1413+63.72	RT	83.51	-	-	-	-	EXISTING GUARDRAIL
47	WB RTE 100	1413+90.78	1413+91.56	RT	82.02	-	-	-	-	EXISTING GUARDRAIL
53	WB RTE 100	1443+05.59	1443+78.53	LT	72.47	-	-	-	-	EXISTING GUARDRAIL
56	WB RTE 100	1455+98.68	-	RT	-	-	-	-	1	EXISTING FLARED END SECTION
56	WB RTE 100	1457+03.85	1457+72.47	RT	70.70	-	-	-	-	EXISTING GUARDRAIL

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BRIAN KIERATH
PROFESSIONAL
ENGINEER
PE-2023008624

REV.

SHEET 4 OF 20

QUANTITIES

MO ROUTE 100
MANCHESTER ROAD

ADJUST TO GRADE (1 OF 2)

SHEET NO.	ROADWAY	STATION	LOCATION	ADJUSTING MANHOLE (EA)	ADJUST TO GRADE MANHOLE (BY OTHERS) (EA)*	ADJUSTING BASIN OR INLET (EA)	ADJUST TO GRADE WATER VALVE (EA)	ADJUST TO GRADE WATER METER (EA)	ADJUST TO GRADE GAS VALVE (BY OTHERS) (EA)*	ADJUST TO GRADE MODOT PULL BOX (EA)	RELOCATE PULLBOX (BY OTHERS) (EA)*	REMARKS
12	EB RTE 100	1433+74.30	LT	-	-	-	-	-	1	-	-	-
12	EB RTE 100	1436+25.52	LT	-	-	-	-	-	-	1	-	-
12	EB RTE 100	1436+87.97	RT	-	-	-	-	-	1	-	-	-
12	EB RTE 100	1437+15.55	LT	-	-	-	1	-	1	-	-	-
12	EB RTE 100	1437+71.36	LT	-	-	-	-	-	1	-	-	-
13	EB RTE 100	1438+26.02	LT	-	-	-	1	-	-	-	-	-
13	EB RTE 100	1438+26.21	LT	-	-	-	1	-	-	-	-	-
13	EB RTE 100	1439+59.70	RT	-	-	-	-	-	1	-	-	-
13	EB RTE 100	1440+35.13	LT	-	-	-	1	-	-	-	-	-
13	EB RTE 100	1440+47.41	RT	-	-	-	1	-	-	-	-	-
13	EB RTE 100	1440+76.31	RT	-	-	-	-	-	-	1	-	-
14	EB RTE 100	1444+90.57	LT	-	-	-	-	-	-	1	-	-
14	EB RTE 100	1445+97.17	RT	-	-	-	-	-	1	-	-	-
14	EB RTE 100	1447+07.72	LT	-	-	-	-	-	-	1	-	-
14	EB RTE 100	1447+48.86	RT	-	-	-	-	-	-	-	1	AT&T-D HH
15	EB RTE 100	1449+29.41	LT	-	-	-	-	-	-	-	1	AT&T-D HH
15	EB RTE 100	1450+92.86	LT	-	-	-	-	-	1	-	-	-
15	EB RTE 100	1451+10.07	LT	-	-	-	-	-	1	-	-	-
15	EB RTE 100	1451+38.75	LT	-	-	-	-	-	1	-	-	-
15	EB RTE 100	1451+95.98	RT	-	-	-	-	-	1	-	-	-
16	EB RTE 100	1457+50.24	LT	1	-	-	-	-	-	-	-	-
16	EB RTE 100	1457+62.51	LT	-	-	-	-	1	-	-	-	-
17	EB RTE 100	1458+87.78	LT	-	-	-	-	1	-	-	-	-
18	EB RTE 100	1463+13.53	LT	-	-	-	-	-	-	-	1	CHARTER HH
19	EB RTE 100	1470+49.78	LT	1	-	-	-	-	-	-	-	-
23	EB RTE 100	1485+50.81	LT	1	-	-	-	-	-	-	-	-
12	EB RTE 100	1485+58.94	LT	-	-	-	-	-	-	-	1	EVERSTREAM HH
23	EB RTE 100	1485+61.97	RT	1	-	-	-	-	-	-	-	AT&T- MH
23	EB RTE 100	1485+91.89	LT	-	-	1	-	-	-	-	-	22P3-202D
23	EB RTE 100	1486+07.40	LT	-	-	-	-	-	-	1	-	-
23	EB RTE 100	1490+10.76	LT	1	-	-	-	-	-	-	-	22P3-185D
24	RTE 100	1490+64.23	LT	1	-	-	-	-	-	-	-	-
24	RTE 100	1490+97.66	RT	-	-	1	-	-	-	-	-	-
24	RTE 100	1491+50.81	LT	1	-	-	-	-	-	-	-	-
24	RTE 100	1492+67.55	LT	-	-	-	-	-	-	2	-	ATG DURING TTC PHASE 2A & PHASE 3
25	RTE 100	1496+19.91	LT	-	-	-	-	-	-	1	-	-
27	RTE 100	1506+32.23	LT	1	-	-	-	-	-	-	-	-
27	RTE 100	1506+72.32	LT	-	-	-	-	-	-	1	-	-
27	RTE 100	1508+88.84	LT	-	-	-	-	-	-	1	-	-
27	RTE 100	1509+95.65	LT	-	-	-	-	-	-	1	-	-
28	RTE 100	1513+80.64	LT	1	-	-	-	-	-	-	-	-
28	RTE 100	1514+71.29	LT	-	-	-	-	-	-	1	-	-
30	RTE 100	1520+68.19	LT	-	-	-	-	-	-	1	-	-
30	RTE 100	1522+04.71	LT	-	-	1	-	-	-	-	-	-
31	RTE 100	1523+21.32	LT	-	-	-	-	-	-	1	-	-
31	RTE 100	1524+30.34	LT	-	-	-	1	-	-	-	-	-
31	RTE 100	1525+05.50	LT	-	-	-	-	-	-	1	-	-
31	RTE 100	1527+41.86	LT	-	-	-	-	-	1	-	-	-
34	RTE 100	1537+99.00	RT	-	-	-	-	-	-	1	-	EXIST. HH ALONG WEIDMAN
35	RTE 100	1541+11.00	LT	-	-	-	-	-	-	1	-	-
35	RTE 100	1542+40.00	LT	-	-	-	-	-	-	-	1	EXTENET HH
35	RTE 100	1542+74.00	LT	-	-	-	-	-	-	1	-	-
36	RTE 100	1547+16.00	LT	-	-	-	-	-	-	1	-	-
36	RTE 100	1547+52.00	LT	-	-	-	1	-	-	-	-	-
36	RTE 100	1547+72.00	LT	-	-	-	-	-	1	-	-	-
36	RTE 100	1547+72.00	LT	-	-	-	-	-	1	-	-	-
36	RTE 100	1547+79.00	LT	-	-	-	-	-	-	1	-	-
36	RTE 100	1549+57.00	LT	-	-	-	-	-	1	-	-	-
37	RTE 100	1552+60.00	LT	-	-	1	-	-	-	-	-	-
34	RTE 100	1556+41.00	LT	-	-	-	-	-	-	1	-	-
38	RTE 100	1557+06.00	RT	1	-	-	-	-	-	-	-	-
38	RTE 100	1557+09.00	RT	-	-	-	-	-	-	-	1	AT&T-D MH
38	RTE 100	1557+38.00	RT	1	-	-	-	-	-	-	-	-
38	RTE 100	1557+94.00	RT	-	-	-	-	-	-	1	-	-
39	RTE 100	1564+83.00	RT	-	1	-	-	-	-	-	-	-
39	RTE 100	1565+50.00	RT	-	-	-	1	-	-	-	-	-
40	RTE 100	1566+02.00	RT	-	-	1	-	-	-	-	-	-
42	RTE 100	1578+23.00	LT	-	-	-	-	-	-	1	-	-
42	RTE 100	1578+38.00	LT	-	-	-	-	-	-	1	-	-
42	RTE 100	1578+53.00	LT	-	-	-	-	-	-	1	-	-
			SUBTOTAL 1	11	1	5	8	2	14	25	5	

*FOR INFORMATION ONLY

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SHEET 5 OF 20

QUANTITIES

MO ROUTE 100
MANCHESTER ROAD

ADJUST TO GRADE (2 OF 2)												
SHEET NO.	ROADWAY	STATION	LOCATION	ADJUSTING MANHOLE (EA)	ADJUST TO GRADE MANHOLE (BY OTHERS) (EA)*	ADJUSTING BASIN OR INLET (EA)	ADJUST TO GRADE WATER VALVE (EA)	ADJUST TO GRADE WATER METER (EA)	ADJUST TO GRADE GAS VALVE (BY OTHERS) (EA)*	ADJUST TO GRADE MODOT PULL BOX (EA)	RELOCATE PULLBOX (BY OTHERS) (EA)*	REMARKS
43	RTE 100	1583+13.00	LT	-	-	-	1	-	-	-	-	
43	RTE 100	1583+16.00	LT	-	-	-	1	-	-	-	-	
43	RTE 100	1583+82.00	LT	-	-	-	-	-	1	-	-	
43	RTE 100	1585+70.00	LT	-	-	-	-	-	1	-	-	
44	RTE 100	1587+07.00	RT	-	-	-	1	-	-	-	-	
44	RTE 100	1587+61.00	RT	-	-	1	-	-	-	-	-	
44	RTE 100	1589+40.00	RT	-	-	-	-	-	-	1	-	
44	RTE 100	1589+40.00	RT	-	-	-	-	-	-	1	-	
44	RTE 100	1589+44.00	RT	-	-	-	-	-	-	1	-	
44	RTE 100	1590+74.00	LT	-	-	-	-	-	-	1	-	
45	RTE 100	1591+70.00	RT	-	1	-	-	-	-	-	-	ATT&T D MH & CLEANOUT
			SUBTOTAL 2	0	1	1	3	0	2	4	0	
			SUBTOTAL 1	11	1	5	8	2	14	25	5	
			PROJECT TOTAL	11	2	6	11	2	16	29	5	

*FOR INFORMATION ONLY

DRIVEWAYS								
SHEET NO.	ROADWAY	STATION	LOCATION	TYPE 5 AGGREGATE FOR BASE (4 IN. THICK) (SQYD)	GRAVEL (A) OR CRUSHED STONE (B) (SQYD)	PAVED APPROACH, 8.0" (SQYD)	LINEAR GRADING CLASS 2 (STA.)	REMARKS
12	RTE 100	1437+54.00	RT	45.65		45.65	0.6	
12	RTE 100	1437+89.00	LT	72.90		72.90	0.5	
13	RTE 100	1438+74.00	LT	46.04		46.04	0.5	
13	RTE 100	1439+47.00	RT	50.43		50.43	0.5	
14	RTE 100	1447+12.00	RT	47.56		47.56	0.6	
15	RTE 100	1449+58.00	LT	67.54		67.54	0.5	
15	RTE 100	1451+12.00	RT	65.33		65.33	0.4	
15	RTE 100	1451+15.00	LT	61.27		61.27	0.5	
16	RTE 100	1455+58.00	LT	35.69		35.69	0.4	
17	RTE 100	1459+13.00	LT	39.38		39.38	0.5	
23	RTE 100	1489+82.00	LT	81.80		81.80	0.6	
24	RTE 100	1490+50.00	RT	46.09		46.09	0.5	
24	RTE 100	1492+12.00	RT	21.44	73.34	21.44	0.4	GRAVEL DRIVEWAY PAST R/W
24	RTE 100	1494+66.00	LT	35.18		35.18	0.4	
25	RTE 100	1496+58.00	LT	80.93		80.93	0.5	
27	RTE 100	1506+34.00	LT	149.55		149.55	0.9	
27	RTE 100	1508+57.00	LT	169.78		169.78	0.8	
28	RTE 100	1510+38.00	LT	135.47		135.47	0.7	
28	RTE 100	1512+58.00	LT	285.45		285.45	0.6	
29	RTE 100	1513+21.00	LT	132.42		132.42	0.6	
30	RTE 100	1515+70.00	LT	201.00		201.00	0.7	
32	RTE 100	1522+12.00	LT	172.79		172.79	0.6	
32	RTE 100	1528+80.00	LT	247.09		247.09	1.2	
32	RTE 100	1531+52.00	LT	175.57		175.57	0.5	
33	RTE 100	1533+28.00	LT	149.05		149.05	0.6	
34	RTE 100	1539+24.71	LT	49.42		49.42	0.4	
34-35	RTE 100	1540+81.15	LT	59.56		59.56	0.6	
35	RTE 100	1542+06.97	LT	59.96		59.96	0.6	
35	RTE 100	1543+76.71	LT	113.28		113.28	0.9	
36	RTE 100	1548+65.32	LT	76.64		76.64	0.6	
36	RTE 100	1549+41.06	LT	112.43		112.43	0.7	
37	RTE 100	1554+80.84	LT	77.82		77.82	0.5	
37-38	RTE 100	1556+07.82	LT	71.56		71.56	0.7	
39	RTE 100	1563+18.10	LT	88.23		88.23	0.6	
39-40	RTE 100	1565+86.41	RT	161.78		161.78	0.9	
40	RTE 100	1566+06.80	LT	55.50		55.50	0.5	
40	RTE 100	1567+95.57	RT	104.31		104.31	0.7	
40	RTE 100	1567+78.10	LT	149.41		149.41	0.7	
43	RTE 100	1583+29.93	LT	113.87		113.87	0.8	
43	RTE 100	1584+68.41	LT	104.90		104.90	0.6	
43-44	RTE 100	1585+87.32	LT	62.77		62.77	0.6	
			SUBTOTAL	3,937.05	73.34	3,937.04	24.78	
			PROJECT TOTAL	*	73	3,937.0	*	

*SEE SIDEWALK QUANTITIES TABLE FOR PROJECT TOTAL

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
BRIAN D. KIERATH JR.
NUMBER PE-2023008624
PROFESSIONAL ENGINEER
04/01/2025 10:40:24 AM
Brian D. Kierath Jr. - Civil
MO PE-2023008624

DATE PREPARED
4/1/2025

ROUTE	STATE
100	MO
DISTRICT	SHEET NO.
SL	3

COUNTY
ST. LOUIS

JOB NO.
J6P3274

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)

GBA
16305 SWINGLEY RIDGE RD
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CHESTERFIELD, MO 63017
314.231.0100
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GEORGE BUTLER
ASSOCIATES, INC.
PRO. ENGINEER 000133
ARCHITECT 000212
PRO. LAND SURVEYOR 000059

BRIAN KIERATH
PROFESSIONAL
ENGINEER
PE-2023008624

SHEET 6 OF 20

QUANTITIES

MO ROUTE 100
MANCHESTER ROAD

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COLDMILLING AND PAVEMENT (1 OF 2)

SHEET NO.	ROADWAY	STATION BEGIN	STATION END	LOCATION	TYPE A2 SHOULDER (SQYD)	BITUMINOUS PAVEMENT MIXTURE PG64-22 BP-1 (TON)	ASPHALTIC CONCRETE MIXTURE PG 76-22 (SP095CLP MIX) (TON)	ASPHALTIC CONCRETE MIXTURE PG 76-22 (SP125CLP MIX) (TON)	ASPHALTIC CONCRETE MIXTURE PG 76-22 (SP190C MIX) (TON)	CONCRETE PAVEMENT 10.5 IN NON-REINFORCED 15 FT. JOINTS (SQYD)	TYPE 5 AGGREGATE FOR BASE (6 IN. THICK) (SQYD)	TACK COAT (GAL)	COLDMILLING BITUMINOUS PAVEMENT FOR REMOVAL OF SURFACING (3 IN. THICK OR LESS) (SQYD)	COLDMILLING BITUMINOUS PAVEMENT FOR REMOVAL OF SURFACING (GREATER THAN 3 IN. THICK) (SQYD)	REMARKS
11-19	EB RTE 100	1429+65.20	1470+32.72	BL	-	-	-	2293.83	-	-	-	2142.66	21426.58	-	-
11-13	EB RTE 100	1429+65.20	1441+65.00	RT	-	183.34	-	-	-	-	-	90.35	-	903.54	-
11	EB RTE 100	1429+65.20	1430+73.56	LT	-	17.49	-	-	-	-	-	8.62	-	86.18	-
11-12	EB RTE 100	1430+51.06	1434+41.78	LT	-	51.65	-	-	-	-	-	25.45	-	254.52	-
12-19	EB RTE 100	1434+41.78	1470+32.72	LT	-	649.65	-	-	-	-	-	320.15	-	3201.54	-
13 14	EB RTE 100	1441+65.00	1446+84.00	RT	438.22	-	-	-	-	-	-	-	-	-	-
14-17	EB RTE 100	1446+84.00	1461+78.61	RT	-	212.38	-	-	-	-	-	104.66	-	1046.63	-
19	RTE 100	1470+03.32	1470+33.75	RT	35.66	-	-	-	-	-	-	-	-	-	IMPACT ATTENUATOR PAD
19-24	RTE 100	1470+32.72	1493+30.00	BL	-	-	-	2665.06	4695.32	-	-	3734.13	-	24894.20	-
19-22	RTE 100	1470+32.72	1483+76.64	LT	-	376.59	-	-	-	-	-	189.81	-	1265.37	-
23-24	RTE 100	1488+77.84	1490+47.69	RT	-	14.06	-	-	-	-	-	7.09	-	47.26	-
24	RTE 100	1491+37.24	1492+80.00	RT	-	18.06	-	-	-	-	-	9.10	-	60.70	-
24	RTE 100	1492+80.00	1494+16.00	RT	87.08	-	-	-	-	-	-	-	-	-	FULL DEPTH SHOULDER
24	RTE 100	1493+30.00	1494+16.00	LT	76.39	-	-	-	-	-	-	-	-	-	FULL DEPTH SHOULDER
24	RTE 100	1493+30.00	1494+16.00	BL	-	-	-	-	-	763.63	763.63	-	-	-	FULL DEPTH PAVEMENT
24-31	RTE 100	1494+16.00	1526+54.00	BL	-	-	-	2808.44	4947.92	-	-	3935.02	-	26233.47	-
24-25	RTE 100	1494+16.00	1497+38.67	RT	-	57.80	-	-	-	-	-	29.13	-	194.21	-
24-25	RTE 100	1494+16.00	1498+65.58	LT	-	74.86	-	-	-	-	-	37.73	-	251.53	-
25-26	RTE 100	1498+94.02	1502+70.80	LT	-	63.90	-	-	-	-	-	32.21	-	214.72	-
26-29	RTE 100	1504+15.55	1515+98.06	RT	-	282.55	-	-	-	-	-	142.41	-	949.40	-
27	RTE 100	1505+08.52	1508+17.43	LT	-	61.59	-	-	-	-	-	31.04	-	206.96	-
28	RTE 100	1510+79.50	1512+28.72	LT	-	25.78	-	-	-	-	-	12.99	-	86.61	-
28-29	RTE 100	1513+50.09	1515+40.76	LT	-	59.50	-	-	-	-	-	29.99	-	199.91	-
29-30	RTE 100	1516+05.25	1518+84.32	LT	-	77.79	-	-	-	-	-	39.21	-	261.37	-
29-30	RTE 100	1517+53.59	1518+87.87	RT	-	22.39	-	-	-	-	-	11.28	-	75.23	-
30	RTE 100	1519+18.38	1520+19.52	LT	7.51	20.18	-	-	-	-	-	10.17	-	67.82	-
30-31	RTE 100	1520+76.24	1523+86.79	RT	-	55.83	-	-	-	-	-	28.14	-	187.59	-
30	RTE 100	1520+80.35	1521+83.49	LT	-	15.38	-	-	-	-	-	7.75	-	51.66	-
30-31	RTE 100	1522+41.20	1524+20.13	LT	-	31.07	-	-	-	-	-	15.66	-	104.38	-
31	RTE 100	1525+96.01	1526+54.00	RT	-	9.00	-	-	-	-	-	4.53	-	30.23	-
31	RTE 100	1526+54.00	1527+60.00	BL	-	-	-	-	-	742.09	742.09	-	-	-	FULL DEPTH PAEMENT
31	RTE 100	1524+62.35	1527+60.00	LT	300.87	-	-	-	-	-	-	-	-	-	FULL DEPTH SHOULDER
31	RTE 100	1526+54.00	1527+60.00	RT	93.99	-	-	-	-	-	-	-	-	-	FULL DEPTH SHOULDER
31-33	RTE 100	1527+60.00	1536+00.00	BL	-	-	-	645.01	1136.38	-	-	903.75	-	6024.99	-
31	RTE 100	1527+60.00	1528+46.36	LT	2.00	55.69	-	-	-	-	-	28.07	-	187.12	-
31-33	RTE 100	1527+60.00	1536+00.00	RT	-	274.71	-	-	-	-	-	138.46	-	923.05	-
32	RTE 100	1529+70.00	1530+24.04	LT	36.10	-	-	-	-	-	-	-	-	-	FULL DEPTH SHOULDER REPAIR
32	RTE 100	1530+80.51	1531+01.99	LT	9.55	-	-	-	-	-	-	-	-	-	FULL DEPTH SHOULDER REPAIR
32-33	RTE 100	1531+95.48	1532+80.85	LT	37.75	-	-	-	-	-	-	-	-	-	FULL DEPTH SHOULDER REPAIR
33	RTE 100	1533+74.25	1536+00.00	LT	-	42.42	-	-	-	-	-	21.38	-	142.54	-
34	RTE 100	1536+00.00	1540+75.00	LT & RT	-	73.04	-	669.14	1178.90	-	-	1274.63	-	6495.88	-
35	RTE 100	1540+75.00	1546+00.00	LT & RT	-	299.17	-	387.38	682.48	-	-	824.22	-	4623.70	-
35	RTE 100	1542+96.77	1544+56.39	LT	176.06	-	-	-	-	-	-	-	-	-	FULL DEPTH SHOULDER REPAIR
36	RTE 100	1546+00.00	1551+00.00	LT & RT	-	355.51	-	365.75	644.37	-	-	802.74	-	4610.97	-
37	RTE 100	1551+00.00	1556+00.00	LT & RT	-	344.81	-	433.72	764.14	-	-	926.14	-	5209.99	-
37	RTE 100	1555+10.42	1555+25.82	LT	4.34	-	-	-	-	-	-	-	-	-	FULL DEPTH SHOULDER REPAIR
38	RTE 100	1556+00.00	1561+00.00	LT & RT	-	221.33	-	358.99	632.47	-	-	745.03	-	4096.99	-
39	RTE 100	1561+00.00	1566+00.00	LT & RT	-	270.00	-	368.15	648.60	-	-	778.49	-	4346.05	-
40	RTE 100	1566+00.00	1571+00.00	LT & RT	-	-	-	369.70	651.34	-	-	690.67	-	3453.35	-
41	RTE 100	1571+00.00	1576+00.00	LT & RT	-	-	-	451.49	795.44	-	-	843.47	-	4217.36	-
42	RTE 100	1576+00.00	1581+00.00	LT & RT	-	-	-	720.23	1268.91	-	-	1345.53	-	6727.66	-
43	RTE 100	1581+00.00	1586+00.00	LT & RT	-	-	-	607.07	1069.53	-	-	1134.11	-	5670.56	-
43	RTE 100	1584+91.22	1585+65.09	LT	-	14.61	-	-	-	-	-	-	-	-	TYPE C BARRIER (RET WALL)
44	RTE 100	1586+00.00	1591+00.00	LT & RT	-	-	-	535.08	942.71	-	-	999.63	-	4998.14	-
45	RTE 100	1591+00.00	1594+14.18	LT & RT	-	-	-	173.03	304.85	-	-	323.26	-	1616.30	-
				SUBTOTAL 1	1,305.49	4,332.14	0.00	13,852.07	20,363.36	1,505.72	1,505.72	22,778.87	21,426.58	124,219.70	

SHEET 7 OF 20

QUANTITIES

MO ROUTE 100
MANCHESTER ROAD

BRIAN D. KIERATH JR. NUMBER PE-2023008624
PROFESSIONAL ENGINEER
STATE OF MISSOURI
04/01/2025 10:40:24 AM
Brian D. Kierath Jr. - Civil
MO PE-2023008624

DATE PREPARED
4/1/2025

ROUTE	STATE
100	MO
DISTRICT	SHEET NO.
SL	3

COUNTY
ST. LOUIS

JOB NO.
J6P3274

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DESCRIPTION

DATE

REV.

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

GBA
16305 SWINGLEY RIDGE RD
ST. 300
CHESTERFIELD, MO 63017
314.231.0100
GBAteam.com

GEORGE BUTLER ASSOCIATES, INC.
PRO. ENGINEER 000133
ARCHITECT 000212
PRO. LAND SURVEYOR 000059

BRIAN KIERATH
PROFESSIONAL ENGINEER
PE-2023008624

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

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STATE OF MISSOURI
BRIAN D. KIERATH JR.
NUMBER PE-2023008624
PROFESSIONAL ENGINEER
04/01/2025 10:40:25 AM
Brian D. Kierath Jr. - Civil
MO PE-2023008624

DATE PREPARED: 4/1/2025
ROUTE: 100 | STATE: MO
DISTRICT: SL | SHEET NO.: 3
COUNTY: ST. LOUIS
JOB NO.: J6P3274
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)

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16305 SWINGLEY RIDGE RD
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CHESTERFIELD, MO 63017
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GEORGE BUTLER
ASSOCIATES, INC.
PRO. ENGINEER 000133
ARCHITECT 000212
PRO. LAND SURVEYOR 000059

BRIAN KIERATH
PROFESSIONAL
ENGINEER
PE-2023008624

COLDMILLING AND PAVEMENT (2 OF 2)

SHEET NO.	ROADWAY	STATION BEGIN	STATION END	LOCATION	TYPE A2 SHOULDER (SQYD)	BITUMINOUS PAVEMENT MIXTURE PG64-22 BP-1 (TON)	ASPHALTIC CONCRETE MIXTURE PG 76-22 (SP095CLP MIX) (TON)	ASPHALTIC CONCRETE MIXTURE PG 76-22 (SP125CLP MIX) (TON)	ASPHALTIC CONCRETE MIXTURE PG 76-22 (SP190C MIX) (TON)	CONCRETE PAVEMENT 10.5 IN NON-REINFORCED 15 FT. JOINTS (SQYD)	TYPE 5 AGGREGATE FOR BASE (6 IN. THICK) (SQYD)	TACK COAT (GAL)	COLDMILLING BITUMINOUS PAVEMENT FOR REMOVAL OF SURFACING (3 IN. THICK OR LESS) (SQYD)	COLDMILLING BITUMINOUS PAVEMENT FOR REMOVAL OF SURFACING (GREATER THAN 3 IN. THICK) (SQYD)	REMARKS
49-58	WB RTE 100	1425+39.59	1474+31.53	BL	-	-	2154.92	-	-	-	-	2317.29	23172.91	-	-
53-58	WB RTE 100	1474+31.53	1443+75.13	LT	-	-	183.57	-	-	-	-	197.41	1974.07	-	-
50-51	WB RTE 100	1430+68.02	1431+43.00	RT	-	-	5.85	-	-	-	-	6.29	62.88	-	-
52	WB RTE 100	1437+99.57	1439+99.38	RT	-	-	7.59	-	-	-	-	8.16	81.59	-	-
53-58	WB RTE 100	1445+86.57	1465+55.43	LT	-	-	183.91	-	-	-	-	197.77	1977.68	-	-
54-56	WB RTE 100	1449.95.60	1457+70.44	RT	-	-	79.57	-	-	-	-	85.56	855.60	-	-
57-58	WB RTE 100	1464+38.47	1474+20.98	LT	-	-	90.21	-	-	-	-	97.01	970.08	-	-
58	WB RTE 100	1466+54.67	1474+31.53	RT	-	-	77.47	-	-	-	-	83.31	833.11	-	-
				SUBTOTAL 2	0.00	0.00	2,783.09	0.00	0.00	0.00	0.00	2,992.79	29,927.92	0.00	
				SUBTOTAL 1	1,305.49	4,332.14	0.00	13,852.07	20,363.36	1,505.72	1,505.72	22,778.87	21,426.58	124,219.70	
				PROJECT TOTAL	1,305.5	4,332.1	2,783.1	13,852.1	20,363.4	1,505.7	1,506	25,772	51,355	124,220	

MGS GUARDRAIL

SHEET NO.	ROADWAY	BEGIN STA.	END STA.	SIDE	MGS GUARDRAIL (LF)	MGS BRIDGE APPROACH TRANSITION SECTION (REGULAR/NO CURB) (EACH)	MGS END ANCHOR (EACH)	TYPE A CRASHWORTHY END TERMINAL (MASH) (EACH)	TYPE C CRASHWORTHY END TERMINAL (MASH) (EACH)	IMPACT ATTENUATOR 45 MPH (SAND BARREL ARRAY) (EACH)	CONCRETE TRAFFIC BARRIER, TYPE D (LF)	"SHAPING SLOPES CLASS III" (MODIFIED) (100FT)
7	EB RTE 100	1408+84	1409+84	RT	75.0	1		1				2.15
7	EB RTE 100	1409+65	1410+15	LT	25.0	1	1					0.78
8	EB RTE 100	1413+04	1413+54	RT	25.0	1	1					0.78
8	EB RTE 100	1413+34	1414+09	LT	50.0	1		1				1.90
10	EB RTE 100	1426+78	1427+15.5	LT	12.5	1		1				1.53
10	EB RTE 100	1426+92	1427+29	RT	0.0	1		1				1.40
19	RTE 100	1470+34		RT						1		
24	RTE 100	1492+80	1493+55	RT	75.0	1		1				2.15
24	RTE 100	1493+55	1493+91	LT	0.0						35.16	0.50
24	RTE 100	1493+55	1493+91	RT	0.0						35.16	0.50
24	RTE 100	1493+91	1494+13	LT	22.0				1			1.37
31	RTE 100	1526+31	1527+49	LT	145.0		1	1				2.73
31	RTE 100	1526+55	1527+40	RT	86.0		1	1				2.14
46	WB RTE 100	1409+32	1409+69	LT	37.0	1		1				1.77
47	WB RTE 100	1413+91	1413+91	RT	37.5	1		1				1.78
47	WB RTE 100	1413+63	1413+63	RT	37.5	1		1				1.78
53	WB RTE 100	1442+88	1443+76	LT	87.0			1				2.02
56	WB RTE 100	1457+36	1457+73	RT	37.0			1				1.52
				SUBTOTAL	751.5	10	4	12	1	1	70.33	26.77
				PROJECT TOTAL	752	10	4	12	1	1	70	27

PAVEMENT REPAIR

ROADWAY	STATION BEGIN	STATION END	LOCATION	FURNISHING AND PLACING CONCRETE MATERIAL FOR FULL DEPTH PAVEMENT REPAIR (SY)	SUBGRADE COMPACCTION (6 IN DEPTH) (PAVEMENT REPAIR) (SY)	TYPE 1 OR 5 AGGREGATE FOR BASE (4 IN THICK) (PAVEMENT REPAIR) (SY)	FULL DEPTH PAVEMENT REPAIR SAW CUT (FOR PERIMETER AND INTERNAL SAW CUTS) (LF)	DOWEL BAR (DRILLING, FURNISHING, AND INSTALLATION) FOR FUL DEPTH PAVEMENT REPAIR (EACH)	TIE BAR (DRILLING, FURNISHING, AND INSTALLATION) FOR FULL DEPTH PAVEMENT REPAIR (TYPE L JOINTS) (EACH)
RTE 100	1410+10.38	1592+85.69	℄	3,869	369	369	14,772	9,232	259
			PROJECT TOTAL	3,869	369	369	14,772	9,232	259

LOCATION OF PAVEMENT REPAIR TO BE AS DIRECTED BY THE ENGINEER

SHEET 8 OF 20

QUANTITIES

MO ROUTE 100
MANCHESTER ROAD

CURB

SHEET NO.	ROADWAY	STATION BEGIN	STATION END	LOCATION	CONCRETE CURB (6" HEIGHT AND UNDER) TYPE S (LF)	CONCRETE CURB (OVER 6IN HEIGHT) TYPE S (LF)	CURB AND GUTTER TYPE B (LF)	INTEGRAL CURB (6" HEIGHT AND UNDER) TYPE A (LF)	INTEGRAL CURB (OVER 6 IN. HEIGHT) TYPE A (LF)	MODIFIED CURB AND GUTTER (LF)
8	EB RTE 100	1413+48.84	1413+53.84	LT	5	-	-	-	-	-
9	EB RTE 100	1418+53.21	1418+54.95	LT	5.22	-	-	-	-	-
9	EB RTE 100	1418+95.59	1418+97.93	LT	7.89	-	-	-	-	-
9	EB RTE 100	1420+20.74	1420+24.56	LT	4.57	-	-	-	-	-
9	EB RTE 100	1420+35.79	1420+43.88	LT	11.12	-	-	-	-	-
9	EB RTE 100	1422+53.91	1422+54.52	LT	4.16	-	-	-	-	-
10	EB RTE 100	1423+40.46	1423+42.45	LT	6.50	-	-	-	-	-
11	EB RTE 100	1431+22.31	1431+25.29	LT	5.49	-	-	-	-	-
11	EB RTE 100	1431+26.90	1431+34.81	RT	8.53	-	-	-	-	-
13-14	EB RTE 100	1441+65.00	1446+84.74	RT	527.54	-	-	-	-	-
14	EB RTE 100	1445+87.15	1445+88.08	LT	9.39	-	-	-	-	-
15	EB RTE 100	1451+29.71	1451+37.93	RT	21.35	-	-	-	-	-
16	RTE 100	1456+43.64	1456+41.17	RT	8.03	-	-	-	-	-
16	RTE 100	1456+97.01	1457+02.15	RT	11.48	-	-	-	-	-
19	RTE 100	1469+31.55	1469+32.84	LT	11.85	-	-	-	-	-
23	RTE 100	1485+26.00	1486+46.17	LT	124.87	-	-	-	-	-
24	RTE 100	1491+24.62	1491+30.15	RT	8.39	-	-	-	-	-
24	RTE 100	1491+72.16	1491+82.86	LT	12.23	-	-	-	-	-
24	RTE 100	1492+78.90	1493+55.42	LT	93.76	-	-	-	-	-
24	RTE 100	1492+80.00	1494+16.00	RT	136.01	-	-	-	-	-
24	RTE 100	1493+55.42	1493+90.58	LT	-	-	-	-	-	-
24	RTE 100	1493+55.83	1493+90.17	RT	-	-	-	-	-	-
24	RTE 100	1493+90.58	1494+47.67	LT	57.08	-	-	-	-	-
25	RTE 100	1495+76.07	1495+76.21	LT	5.29	-	-	-	-	-
25	RTE 100	1496+04.58	1496+04.93	LT	3.39	-	-	-	-	-
25	MASON RD	05+71.81	05+76.43	LT	4.66	-	-	-	-	-
25	MASON RD	05+71.06	05+82.21	RT	11.18	-	-	-	-	-
26	RTE 100	1503+99.44	1504+62.97	RT	-	-	-	62.0	62.0	-
27	RTE 100	1505+18.67	1505+77.45	LT	59.89	-	-	-	-	-
27	RTE 100	1508+96.49	1509+24.58	LT	28.09	-	-	-	-	-
28	RTE 100	1510+00.77	1510+05.98	LT	5.20	-	-	-	-	-
28	RTE 100	1513+55.12	1514+51.01	LT	97.07	-	-	-	-	-
29-30	RTE 100	1516+10.25	1519+26.18	LT	315.97	-	-	-	-	-
30-31	RTE 100	1522+46.34	1523+40.00	LT	95.82	-	-	-	-	-
31	RTE 100	1524+23.50	1527+31.50	LT	307.62	-	-	-	-	-
32	RTE 100	1528+07.94	1528+41.16	LT	38.69	-	-	-	-	-
32	RTE 100	1529+80.00	1530+09.42	LT	29.42	-	-	-	-	-
33	RTE 100	1533+86.94	1533+93.11	LT	8.73	-	-	-	-	-
34	RTE 100	1536+61.32	1536+74.79	LT	-	-	-	-	-	24.0
34	RTE 100	1537+67.48	1539+04.15	LT	-	-	-	-	-	143.6
34	RTE 100	1537+86.03	1540+37.52	RT	-	-	335.0	-	-	
34	RTE 100	1538+73.16	1539+04.24	LT	-	31.00	-	-	-	-
34	RTE 100	1539+44.93	1539+85.58	LT	-	-	-	-	-	40.7
34	RTE 100	1539+45.20	1539+76.39	LT	-	31.00	-	-	-	-
34	RTE 100	1539+85.65	1540+48.11	LT	62.49	-	-	-	-	-
35	RTE 100	1541+12.41	1541+71.55	LT	59.15	-	-	-	-	-
35	RTE 100	1542+34.61	1543+33.96	LT	99.35	-	-	-	-	-
35-36	RTE 100	1544+20.53	1548+51.83	LT	431.31	-	-	-	-	-
36-37	RTE 100	1549+75.17	1552+19.11	LT	247.38	-	-	-	-	-
37-39	RTE 100	1553+50.96	1562+74.46	RT	929.00	-	-	-	-	-
37	RTE 100	1554+87.11	1555+75.08	LT	87.97	-	-	-	-	-
37-39	RTE 100	1553+40.29	1562+77.15	LT	639.26	-	-	-	-	-
39	RTE 100	1562+81.58	1562+98.12	RT	20.00	-	-	-	-	-
39	RTE 100	1563+48.18	1565+80.50	LT	-	-	233.8	-	-	-
40	RTE 100	1566+27.15	1567+54.33	RT	124.77	-	-	-	-	-
40	RTE 100	1566+34.26	1567+43.68	LT	-	-	-	-	-	111.0
40	RTE 100	1568+08.49	1569+50.86	RT	149.13	-	-	-	-	-
42	RTE 100	1577+00.25	1579+02.41	LT	-	-	203.7	-	-	-
43	RTE 100	1582+17.41	1582+98.38	LT	85.33	-	-	-	-	-
43	RTE 100	1583+77.98	1584+39.81	LT	61.84	-	-	-	-	-
43	RTE 100	1584+97.19	1585+58.64	LT	61.46	-	-	41.0	-	-
44	RTE 100	1586+18.05	1587+01.18	LT	73.00	-	-	-	-	-
44	RTE 100	1587+03.65	1588+76.60	LT	191.33	-	-	-	-	-
44	RTE 100	1587+45.42	1588+63.74	RT	139.00	-	-	-	-	-
44	RTE 100	1587+51.56	1587+67.34	RT	27.33	-	-	-	-	-
44	RTE 100	1588+92.73	1589+73.71	RT	96.05	-	-	-	-	-
44	RTE 100	1589+01.82	1589+84.35	LT	99.28	-	-	-	-	-
44-45	RTE 100	1589+98.59	1594+43.90	RT	155.79	-	-	-	-	-
44-45	RTE 100	1590+07.79	1591+41.02	LT	170.09	-	-	-	-	-
45	RTE 100	1591+47.20	1592+08.13	LT	61.00	-	-	-	-	-
45	RTE 100	1591+76.72	1592+66.85	RT	92.08	-	-	79.0	-	-
				SUBTOTAL	6249.85	62.00	772.53	120.00	62.00	319.29
				PROJECT TOTAL	6250	62	773	120	62	319

ROCK BLANKET

SHEET NO.	STATION BEGIN	STATION END	ROADWAY	LOCATION	FURNISHING TYPE 2 ROCK BLANKET (CUYD)	PLACING TYPE 2 ROCK BLANKET (CUYD)	PERMANENT EROSION CONTROL GEOTEXTILE (SQYD)
24	1493+38.79	1494+01.13	RTE 100	LT	101.61	101.61	152.42
24	1493+50.83	1493+95.17	RTE 100	RT	29.30	29.30	43.95
29	1817+41.00	1517+43.00	RTE 100	LT	0.30	0.30	0.91
30	1518+80.00	1818+82.00	RTE 100	LT	0.38	0.38	1.13
31	1526+52.84	1527+19.58	RTE 100	LT	152.30	152.30	228.44
31	1526+93.11	1527+54.24	RTE 100	RT	88.40	88.40	132.60
37	1553+79.52	1555+64.65	RTE 100	RT	160.45	160.45	481.36
38	1557+84.67	1558+92.01	RTE 100	LT	42.80	42.80	128.41
39	1561+87.00	1561+89.00	RTE 100	LT	0.63	0.63	1.89
39	1564+09.00	1564+11.00	RTE 100	LT	0.55	0.55	1.66
39	1564+49.00	1564+51.00	RTE 100	LT	0.55	0.55	1.66
				SUBTOTAL	577.27	577.27	1,174.43
				PROJECT TOTAL	577	577	1,174

SLAB JACKING, JOINT SEALING, AND FLOWABLE BACKFILL

SHEET NO.	ROADWAY	BRIDGE NO.	BRIDGE END	PCCP JOINT/CRACK SEALING (LIN. FT)	SLAB JACKING MATERIAL HIGH DENSITY POLYURETHANE (LB)	FLOWABLE BACKFILL (CUYD)
7	EB RTE 100	A09602	E	550		
8	EB RTE 100	A09602	W	550		
8	EB RTE 100	A09602	SW			5
10	EB RTE 100	A50161	E	550		
10	RTE 100	A50161	E		8400	
10	EB RTE 100	A50161	W	550		
46	RTE 100	A56822	E			5
47	RTE 100	A56822	NW AT RAMP APPR			5
			SUBTOTAL	2200	8400	15
			PROJECT TOTAL	2200	8400	15

CONCRETE MEDIAN STRIP

SHEET NO.	ROADWAY	STATION BEGIN	STATION END	SIDE	CONCRETE MEDIAN STRIP 6 IN. (SQ YD)	REMARKS
16	RTE 100	1456.72.19	1456.84.10	RT	20.3	POINTE DR. ISLAND
23 24	RTE 100	1487+87.42	1493+32.21	RT	246.6	MEDIAN STRIP
24	RTE 100	1492+28.18	1492+91.83	LT	16.5	BARRETT PKWY DR ISLAND
26	RTE 100	1503+22.87	1503+35.07	LT	6.3	SW MASON RD. ISLAND
26	RTE 100	1503+65.85	1503+86.28	LT	14.6	SE MASON RD. ISLAND
30	RTE 100	1519+37.84	1519+56.44	LT	13.8	SW MANCHESTER MEADOWS ISLAND
30	RTE 100	1519+48.31	1519+34.70	RT	16.7	NE MANCHESTER MEADOWS ISLAND
30	RTE 100	1520+03.03	1520+21.83	LT	13.7	SE MANCHESTER MEADOWS ISLAND
31	RTE 100	1523+81.93	1524+16.70	LT	6.5	DRIVEWAY ISLAND
37	RTE 100	1552+25.73	1552+73.83	LT	123.0	
			PROJECT TOTAL		478.0	

SIDEWALK HAND-RAILING

SHEET NO.	ROADWAY	STATION BEGIN	STATION END	LOCATION	SIDEWALK HAND-RAILING WITH BALUSTERS (LF)
39	RTE 100	1557+84.70	1558+92.12	LT	107
PROJECT TOTAL					107

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STATE OF MISSOURI
BRIAN D. KIERATH JR.
NUMBER PE-2023008624
PROFESSIONAL ENGINEER
04/01/2025 10:40:25 AM
Brian D. Kierath Jr. - Civil
MO PE-2023008624

DATE PREPARED
4/1/2025

ROUTE 100 | STATE MO
DISTRICT SL | SHEET NO. 3
COUNTY ST. LOUIS
JOB NO. J6P3274
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)

GBA
16305 SWINGLEY RIDGE RD
ST. 300
CHESTERFIELD, MO 63017
314.231.0100
GBAteam.com

GEORGE BUTLER ASSOCIATES, INC.
PRO. ENGINEER 000133
ARCHITECT 000212
PRO. LAND SURVEYOR 000059

BRIAN KIERATH
PROFESSIONAL ENGINEER
PE-2023008624

SHEET 9 OF 20

QUANTITIES

MO ROUTE 100
MANCHESTER ROAD

SIDEWALK (1 OF 3)

SHEET NO.	ROADWAY	STATION BEGIN	STATION END	LOCATION	CONCRETE SIDEWALK 4 IN. (SY)	STAMPED CONCRETE 4 IN. (SY)	CONCRETE SIDEWALK 7 IN. (SY)	CONCRETE CURB RAMP (EA)							TRUNCATED DOMES (SQ FT)	TYPE 5 AGGREGATE FOR BASE (4 IN. THICK) (SQ YD)	LINEAR GRADING CLASS 2 (STA)	REMARKS
								COMPOUND PERPENDICULAR	TYPE 1 PARALLEL	TYPE 2 PARALLEL	TYPE 3 PARALLEL	SMALL RADIUS PERPENDICULAR	LARGE RADIUS PERPENDICULAR	BLENDED TRANSITION				
9	RTE 100	1418+97.93	1420+20.36	LT	68.4	-	-	-	-	-	-	2	-	-	10.0	77.3	1.2	
9	RTE 100	1420+31.55	1421+05.81	LT	34.5	-	-	-	-	-	-	2	-	-	20.1	43.1	0.7	
9	RTE 100	1421+19.00	1422+07.90	LT	45.9	-	-	-	-	1	-	1	-	-	10.0	62.7	0.9	
9-10	RTE 100	1422+54.54	1423+40.23	LT	36.2	-	-	-	-	-	-	2	-	-	-	48.9	0.9	
11-12	RTE 100	1431+64.83	1433+88.21	LT	128.5	-	-	-	-	-	-	-	2	-	16.1	150.2	2.2	
11-12	RTE 100	1432+02.54	1434+59.12	RT	130.6	-	-	-	-	-	-	2	-	-	-	143.0	2.6	
12	RTE 100	1434+37.41	1436+34.39	LT	99.7	-	-	-	-	-	-	1	1	-	10.0	119.9	2.0	
12	RTE 100	1435+11.98	1437+01.33	RT	90.4	-	-	-	-	-	-	2	1	-	-	104.5	1.9	
12	RTE 100	1437+05.22	1437+73.25	LT	19.9	-	-	-	-	-	-	1	1	-	-	34.6	0.7	
12	RTE 100	1437+22.50	1437+44.05	RT	-	-	-	-	-	-	-	2	-	-	-	11.4	0.2	
12-13	RTE 100	1437+76.49	1439+20.68	RT	66.3	-	-	-	-	-	-	2	-	-	-	79.5	1.4	
13	RTE 100	1438+04.24	1438+58.71	LT	10.6	-	-	-	-	-	-	-	2	-	-	32.5	0.5	
13	RTE 100	1439+20.74	1439+27.73	LT	-	-	-	-	-	-	-	1	-	-	-	4.6	0.1	
13	RTE 100	1439+54.41	1439+78.98	RT	0.0	-	-	-	-	-	-	2	-	-	-	10.8	0.2	
13	RTE 100	1440+20.76	1441+32.37	RT	51.3	-	-	-	-	-	-	2	-	-	10.0	63.4	1.1	
13	RTE 100	1440+27.03	1441+20.36	LT	41.2	-	-	-	-	-	-	2	-	-	-	53.3	0.9	BUS STOP PAD
13-14	RTE 100	1441+77.44	1446+94.05	RT	285.7	-	-	-	-	-	-	1	-	-	-	291.9	5.2	
13-14	RTE 100	1442+16.00	1445+85.28	LT	195.6	-	-	-	-	-	-	1	-	-	10.0	202.2	3.7	
14	RTE 100	1446+23.78	1447+65.89	LT	60.3	-	-	-	-	-	-	1	1	-	10.0	74.9	1.4	
14	RTE 100	1447+29.80	1447+83.39	RT	16.0	-	-	-	-	-	-	2	-	-	-	29.0	0.5	
15	RTE 100	1448+03.86	1449+43.13	LT	68.3	-	-	-	-	-	-	-	2	-	-	89.8	1.4	
15	RTE 100	1448+18.42	1448+86.04	RT	23.5	-	-	-	-	-	-	2	-	-	-	36.4	0.7	
15	RTE 100	1449+14.97	1450+94.23	RT	86.8	-	-	-	-	-	-	2	-	-	-	99.9	1.8	
15	RTE 100	1449+72.66	1451+02.89	LT	57.2	-	-	-	-	-	-	2	-	-	-	69.9	1.3	
15	RTE 100	1451+29.83	1451+63.25	LT	5.0	-	-	-	-	-	-	1	-	-	-	12.6	0.3	
15	RTE 100	1451+26.82	1452+07.28	RT	39.2	-	-	-	-	-	-	1	-	-	-	45.2	0.8	
16	RTE 100	1453+52.74	1453+60.05	LT	8.0	-	-	-	-	-	-	-	-	-	-	8.0	0.1	BUS PAD
16	RTE 100	1454+55.59	1456+55.14	RT	103.0	-	-	-	-	-	-	1	-	-	10.0	109.8	2.0	
16	RTE 100	1454+59.99	1454+73.40	LT	-	-	-	-	-	-	-	1	-	-	-	6.6	0.1	
16	RTE 100	1455+09.54	1455+45.06	LT	5.6	-	-	-	-	-	-	2	-	-	-	18.5	0.4	
16	RTE 100	1455+70.28	1456+88.76	LT	53.3	-	-	-	-	-	-	2	-	-	-	65.3	1.2	
16-18	RTE 100	1456+97.07	1463+17.92	RT	424.6	-	-	-	-	-	-	1	-	-	10.0	430.3	6.2	
16	RTE 100	1457+18.52	1457+96.43	LT	30.1	-	-	-	-	-	-	2	-	-	-	42.4	0.8	
17	RTE 100	1458+26.81	1459+02.75	LT	28.7	-	-	-	-	-	-	2	-	-	-	41.3	0.8	
17	RTE 100	1459+31.87	1460+06.18	LT	27.7	-	-	-	-	-	-	2	-	-	-	40.4	0.7	
20-21	RTE 100	1474+88.70	1478+27.02	RT	170.4	-	-	-	-	-	-	1	-	-	10.3	177.9	3.4	
21	N BARRETT PKWY DR	2+33.00	4+24.96	LT	121.0	-	-	-	-	-	-	-	-	-	-	121.0	1.9	
21	N BARRETT PKWY DR	2+36.00	4+50.39	RT	116.3	-	-	-	-	-	-	-	-	-	-	116.3	2.1	
21	RTE 100	1479+29.83	1479+62.00	RT	9.8	-	-	1	-	-	-	-	-	-	10.0	21.9	0.3	
21-23	RTE 100	1479+39.77	1486+56.96	LT	421.2	-	-	-	1	-	-	1	-	-	20.0	438.3	7.2	BUS STOP PAD RELOC. EXIST. SHELTER
22-23	RTE 100	1484+59.00	1486+61.00	RT	112.2	-	-	-	-	-	-	-	-	-	-	112.2	2.0	
23-24	RTE 100	1487+75.90	1490+75.51	RT	178.4	-	-	-	-	1	-	1	-	-	10.2	203.3	3.0	BUS STOP PAD
23	RTE 100	1487+78.42	1488+15.12	LT	16.0	-	-	-	-	1	-	-	-	-	10.0	31.0	0.4	
23	RTE 100	1489+51.46	1489+61.88	LT	-	-	-	-	-	-	-	1	-	-	-	5.7	0.1	
23-24	RTE 100	1489+94.31	1492+07.15	LT	111.0	-	-	-	1	-	-	1	-	-	10.0	127.4	2.1	
24	RTE 100	1490+88.95	1491+07.32	RT	-	-	-	-	-	-	-	2	-	-	-	9.2	0.2	
24	RTE 100	1492+17.73	1492+82.38	LT	-	-	37.6	-	-	-	-	-	-	-	20.0	37.6	-	ISLAND CUT-THROUGH
24	RTE 100	1492+93.73	1494+52.13	LT	85.2	-	-	-	1	-	-	1	-	-	10.0	105.2	1.6	
24-25	RTE 100	1494+80.42	1495+76.07	LT	41.0	-	-	-	-	-	-	-	2	-	-	61.4	1.0	
25	RTE 100	1496+04.93	1496+32.56	LT	-	-	-	-	-	-	-	-	2	-	-	15.4	0.3	
25	RTE 100	1496+59.48	1498+60.00	LT	103.4	-	-	-	-	-	-	1	1	-	10.0	126.1	2.0	
25-26	RTE 100	1498+98.16	1503+13.74	LT	243.8	-	-	1	-	-	-	1	-	-	20.1	261.0	4.2	BUS STOP PAD
26	RTE 100	1502+95.20	1503+20.87	RT	13.1	-	-	-	1	-	-	-	-	-	10.0	23.1	0.3	
26	RTE 100	1503+14.76	1503+33.14	RT	-	-	12.3	-	-	-	-	-	-	-	30.1	12.3	-	ISLAND CUT-THROUGH
26	RTE 100	1503+26.20	1503+35.09	LT	-	-	7.6	-	-	-	-	-	-	-	30.7	7.6	-	ISLAND CUT-THROUGH
26	RTE 100	1503+61.14	1503+83.14	RT	-	-	13.6	-	-	-	-	-	-	-	30.0	13.6	-	ISLAND CUT-THROUGH
26	RTE 100	1503+65.83	1503+79.45	LT	-	-	10.1	-	-	-	-	-	-	-	30.9	10.1	-	ISLAND CUT-THROUGH
26	RTE 100	1503+93.34	1504+90.71	RT	49.8	-	-	-	-	-	-	1	-	-	10.0	57.4	1.0	BUS STOP PAD
26	RTE 100	1503+90.54	1506+01.82	LT	99.0	-	-	-	-	-	-	1	1	-	10.1	125.6	2.1	
RAMP SUBTOTAL 1								2.0	4.0	3.0	0.0	62.0	16.0	0.0				
SUBTOTAL 1					4,233.7	-	81.2	87							399	4,975	82.0	

DISCLAIMER
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STATE OF MISSOURI
BRIAN D. KIERATH JR.
NUMBER PE-2023008624
PROFESSIONAL ENGINEER
04/01/2025 10:40:25 AM
Brian D. Kierath Jr. - Civil
MO PE-2023008624

DATE PREPARED
4/1/2025

ROUTE	STATE
100	MO
DISTRICT	SHEET NO.
SL	3

COUNTY
ST. LOUIS

JOB NO.
J6P3274

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)

GBA
16305 SWINGLEY RIDGE RD
ST. 300
CHESTERFIELD, MO 63017
314.231.0100
GBAteam.com

GEORGE BUTLER
ASSOCIATES, INC.
PRO. ENGINEER 000133
ARCHITECT 000212
PRO. LAND SURVEYOR 000059

BRIAN KIERATH
PROFESSIONAL
ENGINEER
PE-2023008624

SHEET 10 OF 20

QUANTITIES

MO ROUTE 100
MANCHESTER ROAD

SIDEWALK (2 OF 3)

SHEET NO.	ROADWAY	STATION BEGIN	STATION END	LOCATION	CONCRETE SIDEWALK 4 IN. (SY)	STAMPED CONCRETE 4 IN. (SY)	CONCRETE SIDEWALK 7 IN. (SY)	CONCRETE CURB RAMP (EA)							TRUNCATED DOMES (SQ FT)	TYPE 5 AGGREGATE FOR BASE (4 IN. THICK) (SQ YD)	LINEAR GRADING CLASS 2 (STA)	REMARKS
								COMPOUND PERPENDICULAR	TYPE 1 PARALLEL	TYPE 2 PARALLEL	TYPE 3 PARALLEL	SMALL RADIUS PERPENDICULAR	LARGE RADIUS PERPENDICULAR	BLENDED TRANSITION				
27	RTE 100	1506+55.16	1508+29.19	LT	85.8	-	-	-	-	-	-	-	2	-	-	111.3	1.7	
27	RTE 100	1508+79.79	1509+39.73	LT	12.1	-	-	-	-	-	-	-	2	-	-	35.7	0.6	
27-28	RTE 100	1509+86.82	1510+19.68	LT	-	-	-	-	-	-	-	-	2	-	-	12.2	0.3	
28	RTE 100	1510+61.82	1512+39.07	LT	86.0	-	-	-	-	-	-	-	2	-	-	112.6	1.8	
28-29	RTE 100	1512+75.77	1515+43.64	LT	145.1	-	-	-	-	-	-	-	2	-	-	169.1	2.7	
29-30	RTE 100	1515+91.10	1519+29.96	LT	207.6	-	-	-	1	-	-	-	1	-	12.0	233.1	3.4	BUS STOP PAD
30	RTE 100	1519+42.07	1519+54.65	LT	-	-	6.4	-	-	-	-	-	-	-	20.5	6.4	-	ISLAND CUT-THROUGH
30	RTE 100	1520+03.35	1520+19.01	LT	-	-	10.1	-	-	-	-	-	-	-	30.2	10.1	-	ISLAND CUT-THROUGH
30	RTE 100	1520+11.43	1520+17.82	RT	-	-	7.7	-	-	-	-	-	-	-	20.0	7.7	-	ISLAND CUT-THROUGH
30	RTE 100	1520+29.95	1521+73.14	RT	82.9	-	-	-	-	-	-	1	-	-	10.0	91.3	1.4	BUS STOP PAD
30	RTE 100	1520+31.00	1521+90.89	LT	84.7	-	-	-	1	-	-	-	1	-	10.0	105.5	1.6	
30-31	RTE 100	1522+33.72	1523+51.09	LT	58.9	-	-	-	1	-	-	-	1	-	10.0	79.7	1.2	
31	RTE 100	1523+63.41	1524+00.27	LT	-	-	21.7	-	-	-	-	-	-	-	20.0	21.7	-	ISLAND CUT-THROUGH
31	RTE 100	1524+02.99	1527+56.14	LT	210.8	-	-	-	2	-	-	-	-	-	25.1	247.1	3.5	
32	RTE 100	1528+05.70	1528+58.51	LT	9.8	-	-	1	-	-	-	-	1	-	10.0	34.7	0.5	
32	RTE 100	1528+99.29	1529+22.73	LT	-	-	-	-	-	-	-	-	2	-	-	12.6	0.2	
32	RTE 100	1529+58.00	1530+31.42	LT	19.6	-	-	-	-	-	-	-	2	-	-	44.1	0.7	
32	RTE 100	1530+68.26	1531+19.80	LT	7.6	-	-	-	-	-	-	-	2	-	-	28.1	0.5	
32-33	RTE 100	1531+80.55	1532+98.02	LT	43.6	-	-	-	-	-	-	-	2	-	-	71.6	1.2	
33	RTE 100	1533+57.10	1534+09.84	LT	19.8	-	-	-	-	-	-	-	1	-	-	34.2	0.5	
33	RTE 100	1534+45.04	1534+50.04	LT	-	-	-	-	-	-	-	1	-	-	-	4.2	0.1	
33	RTE 100	1535+00.32	1535+05.32	LT	-	-	-	-	-	-	-	1	-	-	-	4.8	0.1	
33	RTE 100	1535+19.50	1535+27.50	LT	5.3	-	-	-	-	-	-	-	-	-	-	5.3	0.1	
33	RTE 100	1535+63.50	1535+73.50	LT	6.7	-	-	-	-	-	-	-	-	-	-	6.7	0.1	
34	RTE 100	1536+53.10	1536+72.66	LT	4.2	-	-	-	-	1	-	-	-	-	11.7	4.2	0.1	
34	RTE 100	1536+75.02	1536+90.42	RT	-	-	-	-	-	-	-	1	-	-	11.8	-	-	
34	RTE 100	1536+75.52	1537+02.93	LT	-	-	26.7	-	-	-	-	-	-	-	37.1	26.7	-	ISLAND CUT-THROUGH
34	RTE 100	1536+93.72	1537+10.33	RT	-	-	15.7	-	-	-	-	-	-	-	36.9	15.7	-	ISLAND CUT-THROUGH
34	RTE 100	1537+53.67	1537+70.92	LT	-	-	16.6	-	-	-	-	-	-	-	36.1	16.6	-	ISLAND CUT-THROUGH
34	RTE 100	1537+64.41	1538+00.12	RT	-	-	32.7	-	-	-	-	-	-	-	36.7	32.7	-	ISLAND CUT-THROUGH
34	RTE 100	1537+70.09	1539+08.80	LT	71.9	-	-	-	-	1	-	1	-	-	12.0	71.9	1.1	
34	RTE 100	1537+93.63	1540+56.64	RT	201.2	-	-	-	-	1	-	-	1	-	45.3	201.2	2.9	BUS STOP PAD RELOC. EXIST. SHELTER
34	RTE 100	1539+40.47	1540+59.77	LT	55.4	-	-	-	-	-	-	1	1	-	-	55.4	0.8	
35	RTE 100	1541+01.16	1541+83.03	LT	23.9	-	-	-	-	-	-	-	2	-	-	23.9	0.4	
35	RTE 100	1542+21.81	1543+49.27	LT	64.0	-	-	-	-	-	-	-	2	-	-	64.0	0.8	BUS STOP PAD RELOC. EXIST. SHELTER
35-36	RTE 100	1544+04.47	1548+63.57	LT	271.3	-	-	-	-	-	-	-	2	-	-	288.9	4.1	
36	RTE 100	1548+99.78	1549+20.12	LT	-	-	-	-	-	-	-	-	2	-	-	-	-	
36-37	RTE 100	1549+63.44	1552+42.46	LT	170.0	-	-	-	-	1	-	-	1	-	12.3	167.4	2.4	
37	RTE 100	1552+40.39	1552+73.82	LT	-	-	30.3	-	-	-	-	-	-	-	35.9	31.2	-	ISLAND CUT-THROUGH
37	RTE 100	1552+53.08	1552+83.08	RT	-	-	-	-	2	-	-	-	-	-	27.5	-	-	
37	RTE 100	1553+11.50	1553+44.04	LT	-	-	-	-	-	-	-	1	-	-	14.5	-	-	
37-39	RTE 100	1553+46.87	1563+00.69	RT	606.9	-	-	-	-	-	-	3	-	-	35.3	606.9	9.2	
37	RTE 100	1554+70.17	1555+85.23	LT	77.4	-	-	-	-	-	-	-	1	-	-	77.4	1.1	"BUS STOP PAD RELOC. EXIST. SHELTER
38-39	RTE 100	1556+31.43	1563+02.53	LT	421.1	-	-	-	-	-	-	2	1	-	22.0	421.1	6.3	
39	RTE 100	1563+33.20	1565+89.07	LT	144.3	-	-	-	-	-	-	1	1	-	10.0	144.3	2.2	
39	RTE 100	1563+34.77	1565+41.39	RT	99.7	-	-	-	-	-	-	2	-	-	10.0	99.7	1.8	
40	RTE 100	1566+07.27	1567+61.58	RT	80.4	-	-	-	1	-	-	1	-	-	-	80.4	1.4	
40	RTE 100	1566+24.88	1567+55.46	LT	67.7	-	-	-	1	-	-	-	1	-	-	67.7	1.0	
40	RTE 100	1568+06.65	1569+76.54	LT	83.2	-	-	-	-	-	-	3	-	-	20.1	83.2	1.5	
40	RTE 100	1568+08.10	1569+48.47	RT	79.0	-	-	-	2	-	-	-	-	-	7.5	79.0	1.1	
40	RTE 100	1569+59.10	1569+66.29	RT	-	-	4.5	-	-	-	-	-	-	-	20.0	4.5	-	ISLAND CUT-THROUGH
40	RTE 100	1570+27.02	1570+50.32	LT	-	-	-	-	-	-	-	1	-	-	15.8	-	-	
42	RTE 100	1577+59.32	1578+69.10	LT	75.7	-	-	-	-	-	-	-	-	2	11.8	75.7	1.0	BLENDED TRANSITION RAMP
42	RTE 100	1578+62.27	1578+68.47	RT	-	-	6.9	-	-	-	-	-	-	-	25.7	6.9	-	ISLAND CUT-THROUGH
42	RTE 100	1578+71.12	1578+79.49	RT	-	-	8.9	-	-	-	-	-	-	-	20.6	8.9	-	ISLAND CUT-THROUGH
43	RTE 100	1582+17.51	1583+03.75	LT	64.1	-	-	-	1	-	-	-	-	-	-	64.1	0.8	
43	RTE 100	1583+58.16	1584+50.51	LT	34.5	-	-	-	-	-	-	1	1	-	-	34.5	0.6	"SR PERPENDICULAR RAMP
43	RTE 100	1584+86.01	1585+68.33	LT	30.0	-	-	-	-	-	-	-	2	-	-	47.0	0.4	
44	RTE 100	1586+00.81	1586+97.32	LT	37.8	-	-	-	1	-	-	-	1	-	12.1	37.8	0.6	
44	RTE 100	1587+06.48	1588+75.68	LT	72.2	38.4	-	-	-	-	-	2	-	-	24.4	72.2	1.3	
44	RTE 100	1587+35.02	1587+76.25	RT	61.8	-	-	-	1	-	-	-	-	-	10.0	61.8	1.1	
44	RTE 100	1587+57.25	1588+62.34	RT	44.6	31.6	-	-	-	-	-	2	-	-	22.2	44.6	0.7	
44	RTE 100	1588+88.37	1589+78.34	RT	29.5	174.0	-	-	-	-	-	2	-	-	22.3	29.5	0.5	
44	RTE 100	1588+97.27	1589+89.30	LT	30.3	183.5	-	-	-	-	-	2	-	-	24.0	30.3	0.5	
RAMP SUBTOTAL 2								1	14	4	0	29	42	2				
SUBTOTAL 2					4,088.6	427.5	188.2	92							799	4,667	67.9	

DISCLAIMER
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STATE OF MISSOURI
BRIAN D. KIERATH JR.
NUMBER PE-2023008624
PROFESSIONAL ENGINEER
04/02/2025 8:42:39 AM
Brian D. Kierath Jr. - Civil
MO PE-2023008624

DATE PREPARED
4/2/2025

ROUTE	STATE
100	MO
DISTRICT	SHEET NO.
SL	3

COUNTY
ST. LOUIS

JOB NO.
J6P3274

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

REV.	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)

GBA
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GEORGE BUTLER ASSOCIATES, INC.
PRO. ENGINEER 000133
ARCHITECT 000212
PRO. LAND SURVEYOR 000059

BRIAN KIERATH
PROFESSIONAL ENGINEER
PE-2023008624

SHEET 11 OF 20

QUANTITIES

MO ROUTE 100
MANCHESTER ROAD

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SIDEWALK (3 OF 3)

SHEET NO.	ROADWAY	STATION BEGIN	STATION END	LOCATION	CONCRETE SIDEWALK 4 IN. (SY)	STAMPED CONCRETE 4 IN. (SY)	CONCRETE SIDEWALK 7 IN. (SY)	CONCRETE CURB RAMP (EA)							TRUNCATED DOMES (SQ FT)	TYPE 5 AGGREGATE FOR BASE (4 IN. THICK) (SQ YD)	LINEAR GRADING CLASS 2 (STA)	REMARKS
								COMPOUND PERPENDICULAR	TYPE 1 PARALLEL	TYPE 2 PARALLEL	TYPE 3 PARALLEL	SMALL RADIUS PERPENDICULAR	LARGE RADIUS PERPENDICULAR	BLENDED TRANSITION				
44-45	RTE 100	1590+00.48	1591+41.19	RT	56.5	32.1	-	-	-	-	-	2	-	-	23.5	56.5	1.0	
44-45	RTE 100	1590+08.30	1591+25.96	LT	45.7	44.0	-	-	-	-	-	2	-	-	24.1	45.7	0.8	
45	RTE 100	1591+31.70	1592+07.98	LT	33.2	-	-	-	1	-	-	1	-	-	11.8	33.2	0.5	
45	RTE 100	1591+59.99	1592+71.86	RT	58.0	-	-	-	1	-	-	1	-	-	10.8	58.0	0.8	
RAMP SUBTOTAL 3								0	2	0	0	6	0	0				
SUBTOTAL 3					193.3	76.1	0.0	8							70	193	3.1	
SUBTOTAL 1					4,233.7	-	81.2	87							399	4,975	82.0	
SUBTOTAL 2					4,088.6	427.5	188.2	92							799	4,667	67.9	
PAVED APPROACH SUBTOTAL					-	-	-	-							-	3,937	24.8	
PROJECT TOTAL					8,515.5	503.6	269.3	187							1,269	13,772	177.9	

DRAINAGE PIPES

PROFILE NAME	CULVERT SHEET XX OF 6	DRAINAGE SHEET XX OF 14	FROM STRUCT.	TO STRUCT.	12 IN. PIPE GROUP A (LF)	12 IN. PIPE GROUP B (LF)	15 IN. PIPE GROUP A (LF)	15 IN. PIPE GROUP B (LF)	18 IN. PIPE GROUP A (LF)	24 IN. PIPE GROUP A (LF)	CLASS 3 EXCAVATION (CU YD)	REMARKS
1526-A	1	3	EX. INLET	1525A					112		81	
	1	3	1525A	1526A						125	127	
	1	3	1526A	CULVERT						4	14	
N/A	N/A	3	1527P	CULVERT					2		0	EXCAVATION COVERED BY CULVERT EXCAVATION
1528-A	2	4	1528A	1528M	1						0	EXCAVATION COVERED BY STRUCTURE EXCAVATION
1529-A	2	4	1529A	1529M	1						0	EXCAVATION COVERED BY STRUCTURE EXCAVATION
1526-A	2	5	1534F	1533F				6			1	
	3	6	1538F	1538P				15			4	
	3	7	1544S	1544A	9						5	
N/A	3	8	1547A	1545A	156						78	
1528-A	3	7	1545A	1544A	157						94	
1529-A	3	7	1544A	1543M1	81						54	
1526-A	3	7	1542A	1543M1	85						53	
	4	9	1553A	1553M	11						6	
	N/A	9	1556F1	1555F1		66					5	
N/A	N/A	10	1557F2	1557F1		16					1	
1528-A	4	11	1562S	1562A	9						3	
1529-A	4	11	1561A1	1561A2	41						15	
1526-A	4	11	1561A2	1562A1	58						22	
	4	11	1562A1	1562A2			45				18	
	4	11	1562A2	1562A3			24				9	
N/A	1	13	1455M	1455F				13			3	
1528-A	1	14	1466F2	1466F1		7					1	
1529-A	N/A	N/A	1493P	CULVERT			2				0	EXCAVATION COVERED BY CULVERT EXCAVATION
SUBTOTAL					609	89	71	34	114	129	593	
DRAINAGE STRUCTURES SUBTOTAL					-	-	-	-	-	-	209	
PROJECT TOTAL					609	89	71	34	114	129	802	

BRIAN D. KIERATH JR. NUMBER PE-2023008624
PROFESSIONAL ENGINEER
STATE OF MISSOURI
04/01/2025 10:40:26 AM
Brian D. Kierath Jr. - Civil
MO PE-2023008624

DATE PREPARED 4/1/2025
ROUTE 100 | STATE MO
DISTRICT SL | SHEET NO. 3
COUNTY ST. LOUIS
JOB NO. J6P3274
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)

GBA
16305 SWINGLEY RIDGE RD
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ASSOCIATES, INC.
PRO. ENGINEER 000133
ARCHITECT 000212
PRO. LAND SURVEYOR 000059

BRIAN KIERATH
PROFESSIONAL
ENGINEER
PE-2023008624

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

QUANTITIES

MO ROUTE 100
MANCHESTER ROAD

REV.

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DRAINAGE STRUCTURES

STRUCT. NO.	CULVERT SHEET XX OF 6	DRAINAGE SHEET XX OF 14	STATION	ROADWAY	LOCATION	12 IN. GROUP B FLARED END SECTION (EA)	15 IN. GROUP B FLARED END SECTION (EA)	CURVED VANE GRATE AND FRAME 2FT X 2FT (EA)	CURVED VANE GRATE AND FRAME 4FT X 2FT (EA)	GRATE AND BEARING PLATE 3FT X 2FT (EA)	PIPE COLLAR TYPE A (EA)	PRECAST CONCRETE MANHOLE 48 IN (FT)	PRECAST CONCRETE MANHOLE 60 IN (FT)	PRECAST CONCRETE DROP INLET 2FT X 2FT (FT)	PRECAST CONCRETE DROP INLET 4FT X 2FT (FT)	PRECAST CONCRETE DROP INLET 3FT X 2FT (FT)	CONVERT INLET TO MANHOLE (EA)	SHALLOW INLET 4FT X 2FT W/ PIPE AND SPLASH PAD (EA)	SHALLOW INLET 2FT X 2FT W/ PIPE AND SPLASH PAD (EA)	MANHOLE FRAME AND COVER, TYPE 1-A (EA)	CLASS 3 EXCAVATION (CU YD)	PIPE OPENINGS (NUMBER-SIZE)
1517A	N/A	1	1517+42.53	ROUTE 100	44.00' LT													1				
1518A	N/A	2	1518+80.86	ROUTE 100	44.00' LT													1				
1525A	1	3	1525+25.74	ROUTE 100	41.00' LT				1						5.5						11	1-18",1-24" OPENINGS
1526A	1	3	1526+57.17	ROUTE 100	41.00' LT				1						7						13	2-24" OPENINGS
1527P	2	3	1527+13.31	ROUTE 100	51.62' LT						1											
1528M	2	4	1528+30.38	ROUTE 100	42.38' LT							3.9								1	11	1-12",1'15",1-18" OPENINGS
1528A	2	4	1528+33.22	ROUTE 100	38.54' LT			1						4.1							6	1-12" OPENING
1529M	2	4	1529+66.28	ROUTE 100	41.54' LT							3.6								1	10	2-15,1-12" OPENINGS
1529A	2	4	1529+69.27	ROUTE 100	37.52' LT			1						3.6							6	1-12" OPENING
1531A	N/A	4	1531+26.10	ROUTE 100	46.76' LT														1			
1532A	N/A	5	1532+01.76	ROUTE 100	34.34' LT													1				
1533F	2	5	1533+85.80	ROUTE 100	49.59' LT		1															
1534F	2	5	1534+03.75	ROUTE 100	49.65' LT		1															
1538P	3	6	1538+78.83	ROUTE 100	53.31' RT																	
1538F	3	6	1538+99.87	ROUTE 100	56.08' RT		1															
1542A	3	7	1542+41.01	ROUTE 100	40.47 LT				1						4.3						9	1-12" OPENING
1543M1	3	7	1543+32.47	ROUTE 100	38.99 LT								5.8							1	19	2-12",2-36" OPENINGS
1543M2	N/A	7	1543+30.16	ROUTE 100	47.20' LT								6.6							1	23	1-36",1-42" OPENINGS
1544S	3	7	1544+19.10	ROUTE 100	54.08' LT					1						4.4					8	1-12" OPENING
1544A	3	7	1544+19.68	ROUTE 100	40.13' LT				1						5.5						11	3-12" OPENINGS
1545A	3	7	1545+80.56	ROUTE 100	40.08' LT				1						4.5						9	2-12" OPENINGS
1547A	3	8	1547+41.02	ROUTE 100	40.02' LT				1						3.7						7	1-12" OPENING
N/A	N/A	9	1552+59.97	ROUTE 100	54.19' LT												1					
1553A	4	9	1553+67.78	ROUTE 100	37.60' RT				1						4						8	1-12" OPENING
1553M	4	9	1553+67.94	ROUTE 100	55.92' RT							3.9								1	10	1-12,2-18" OPENINGS
1555A	N/A	9	1555+52.40	ROUTE 100	37.65' RT													1				
1555F1	N/A	9	1555+58.96	ROUTE 100	55.46' RT		1															
1556F1	N/A	10	1556+37.31	ROUTE 100	54.43' RT		1															
1557F1	N/A	10	1557+29.77	ROUTE 100	50.05' RT																	
1557F2	N/A	10	1557+58.21	ROUTE 100	50.47' RT																	
1558A1	N/A	10	1558+00.00	ROUTE 100	33.1' RT													1				
1558A2	N/A	10	1558+04.66	ROUTE 100	34.14' LT													1				
1561A1	4	11	1561+10.02	ROUTE 100	34.34' RT				1						3.3						7	1-12" OPENING
1561A2	4	11	1561+54.51	ROUTE 100	39.37' RT				1						3.1						6	2-12" OPENINGS
1561A3	N/A	11	1561+87.94	ROUTE 100	39.62' LT													1				
1562S	4	11	1562+16.52	ROUTE 100	54.40' RT					1						3					8	1-12" OPENING
1562A1	4	11	1562+16.50	ROUTE 100	41.29' RT			1						3.1							5	2-12",1-15" OPENINGS
1562A2	4	11	1562+65.74	ROUTE 100	42.07' RT			1						3.1							5	2-15" OPENINGS
1562A3	4	11	1562+93.15	ROUTE 100	47.31' RT			1						3.2							5	2-15" OPENINGS
1564A1	N/A	11	1564+10.00	ROUTE 100	33.05' LT														1			
1564A2	N/A	11	1564+50.00	ROUTE 100	32.91' LT														1			
1455F	1	13	1455+81.13	ROUTE 100	48.67' RT		1															
1455M	1	13	1456+01.05	ROUTE 100	46.00' RT							4.3								1	14	2-15" OPENINGS
1466F1	1	14	1466+74.68	ROUTE 100	133.43' LT	1																
1466F2	1	14	1466+72.21	ROUTE 100	152.52' LT	1																
					SUBTOTAL	2	6	5	9	2	1	15.7	12.4	17.1	40.9	7.4	1	7	3	6	208.53	
					PROJECT TOTAL	2	6	5	9	2	1	16	12	17	41	7	1	7	3	6	*	

*SEE DRAINAGE PIPES QUANTITIES TABLE FOR PROJECT TOTAL

SHEET 13 OF 20

QUANTITIES

MO ROUTE 100
MANCHESTER ROAD

BRIAN KIERATH
PROFESSIONAL
ENGINEER
PE-2023008624

STATE OF MISSOURI
BRIAN D. KIERATH JR.
NUMBER PE-2023008624
PROFESSIONAL ENGINEER
04/01/2025 10:40:26 AM
Brian D. Kierath Jr. - Civil
MO PE-2023008624

DATE PREPARED
4/1/2025

ROUTE	STATE
100	MO
DISTRICT	SHEET NO.
SL	3

COUNTY
ST. LOUIS

JOB NO.
J6P3274

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)

GBA
16305 SWINGLEY RIDGE RD
ST. 300
CHESTERFIELD, MO 63017
314.231.0100
GBAteam.com

GEORGE BUTLER
ASSOCIATES, INC.
PRO. ENGINEER 000133
ARCHITECT 000212
PRO. LAND SURVEYOR 000059

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

TEMPORARY EROSION CONTROL (1 OF 4)										
SHEET NO.	ROADWAY	STATION BEGIN	STATION END	LOCATION	SILT FENCE (LF)	ALTERNATE DITCH CHECK (LF)	ROCK DITCH CHECK (LF)	CURB INLET CHECK (EA)	SEDIMENT REMOVAL (CUYD)	REMARKS
8 9	EB RTE 100	1416+33.35	1418+54.46	LT	221	-	-	-	2.2	
9	EB RTE 100	1418+97.93	1420+24.03	LT	126	-	-	-	1.3	
9	EB RTE 100	1420+43.53	1421+01.72	LT	58	-	-	-	0.6	
9	EB RTE 100	1421+18.34	1422+12.44	LT	94	-	-	-	0.9	
9 10	EB RTE 100	1422+53.91	1423+42.95	LT	89	-	-	-	0.9	
11	EB RTE 100	1429+63.00	1431+36.89	RT	174	-	-	-	1.7	
11	EB RTE 100	1430+27.40	-	RT	-	-	-	1	1.0	
11	EB RTE 100	1431+03.26	1431+24.86	LT	22	-	-	-	0.2	
11 12	EB RTE 100	1431+62.28	1433+84.44	LT	222	-	-	-	2.2	
11 12	EB RTE 100	1432+02.05	1434+60.75	RT	259	-	-	-	2.6	
12	EB RTE 100	1433+54.90	-	LT	-	-	-	1	1.0	
12	EB RTE 100	1434+34.72	1436+40.22	LT	206	-	-	-	2.1	
12	EB RTE 100	1435+10.93	1437+02.41	RT	191	-	-	-	1.9	
12	EB RTE 100	1436+17.55	-	LT	-	-	-	1	1.0	
12	EB RTE 100	1436+99.69	1437+77.98	LT	78	-	-	-	0.8	
12	EB RTE 100	1437+22.06	1437+44.46	RT	22	-	-	-	0.2	
12	EB RTE 100	1347+59.94	-	LT	-	-	-	1	1.0	
12 13	EB RTE 100	1437+76.07	1439+20.89	RT	145	-	-	-	1.4	
13	EB RTE 100	1438+02.81	1438+59.43	LT	57	-	-	-	0.6	
13	EB RTE 100	1438+07.84	-	LT	-	-	-	1	1.0	
13	EB RTE 100	1438+67.06	-	RT	-	-	-	1	1.0	
13	EB RTE 100	1436+67.68	-	LT	-	-	-	1	1.0	
13	EB RTE 100	1439+20.74	1439+28.89	LT	8	-	-	-	0.1	
13	EB RTE 100	1439+23.34	-	LT	-	-	-	1	1.0	
13	EB RTE 100	1439+52.52	1439+79.91	RT	27	-	-	-	0.3	
13	EB RTE 100	1439+76.22	-	LT	-	-	-	1	1.0	
13	EB RTE 100	1440+20.69	1441+33.14	RT	112	-	-	-	1.1	
13	EB RTE 100	1440+26.17	1441+20.75	LT	95	-	-	-	0.9	
13	EB RTE 100	1441+06.66	-	LT	-	-	-	1	1.0	
13 14	EB RTE 100	1441+65.00	1446+94.09	RT	529	-	-	-	5.3	
13 14	EB RTE 100	1442+16.35	1445+87.08	LT	371	-	-	-	3.7	
14	EB RTE 100	1445+69.13	-	LT	-	-	-	1	1.0	
14	EB RTE 100	1446+23.31	1447+66.06	LT	143	-	-	-	1.4	
14	EB RTE 100	1447+29.49	1447+83.53	RT	54	-	-	-	0.5	
14	EB RTE 100	1447+46.38	-	LT	-	-	-	1	1.0	
15	EB RTE 100	1448+03.15	1449+46.79	LT	144	-	-	-	1.4	
15	EB RTE 100	1448+18.35	1448+86.71	RT	68	-	-	-	0.7	
15	EB RTE 100	1449+14.15	1450+94.34	RT	180	-	-	-	1.8	
15	EB RTE 100	1450+91.35	-	LT	-	-	-	1	1.0	
15	EB RTE 100	1449+73.00	1450+98.63	LT	126	-	-	-	1.3	
15	EB RTE 100	1450+91.36	-	LT	-	-	-	1	1.0	
15	EB RTE 100	1451+26.77	1451+63.38	LT	37	-	-	-	0.4	
15	EB RTE 100	1451+30.20	1452+07.28	RT	77	-	-	-	0.8	
16	EB RTE 100	1453+52.74	1453+60.53	LT	8	-	-	-	0.1	
16	EB RTE 100	1453+59.81	-	LT	-	-	-	1	1.0	
16	EB RTE 100	1454+56.11	1456+55.45	RT	199	-	-	-	2.0	
16	EB RTE 100	1454+59.99	1454+74.22	LT	14	-	-	-	0.1	
16	EB RTE 100	1455+08.45	1455+45.50	LT	37	-	-	-	0.4	
16	EB RTE 100	1455+31.57	-	LT	-	-	-	1	1.0	
16	EB RTE 100	1455+69.72	1456+88.81	LT	119	-	-	-	1.2	
16	EB RTE 100	1456+73.02	-	LT	-	-	-	1	1.0	
16-18	EB RTE 100	1456+97.55	1463+19.30	RT	622	-	-	-	6.2	
16	EB RTE 100	1457+17.81	1457+96.52	LT	79	-	-	-	0.8	
17	EB RTE 100	1458+26.62	1459+02.91	LT	76	-	-	-	0.8	
17	EB RTE 100	1459+31.71	1460+06.33	LT	75	-	-	-	0.7	
18	EB RTE 100	1463+42.30	-	LT	-	-	-	1	1.0	
18	EB RTE 100	1467+12.17	-	LT	-	-	-	1	1.0	
19	RTE 100	1470+50.84	-	RT	-	-	-	1	1.0	
19	RTE 100	1471+00.63	-	RT	-	-	-	1	1.0	
19	RTE 100	1471+63.94	-	RT	-	-	-	1	1.0	
20	RTE 100	1473+70.85	-	RT	-	-	-	1	1.0	
20	RTE 100	1474+06.31	-	RT	-	-	-	1	1.0	
20	RTE 100	1474+35.25	-	RT	-	-	-	1	1.0	
20	RTE 100	1474+39.51	-	RT	-	-	-	1	1.0	
20	RTE 100	1474+86.07	1478+32.36	RT	346	-	-	-	3.5	
21	RTE 100	1477+63.17	-	RT	-	-	-	1	1.0	
21	RTE 100	1477+63.63	-	RT	-	-	-	1	1.0	
				SUBTOTAL 1	5,510	0	0	28	83.1	

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STATE OF MISSOURI
BRIAN D. KIERATH JR.
NUMBER PE-2023008624
PROFESSIONAL ENGINEER
04/01/2025 10:40:26 AM
Brian D. Kierath Jr. - Civil
MO PE-2023008624

DATE PREPARED
4/1/2025

ROUTE	STATE
100	MO
DISTRICT	SHEET NO.
SL	3

COUNTY
ST. LOUIS

JOB NO.
J6P3274

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)

GBA
16305 SWINGLEY RIDGE RD
ST. 300
CHESTERFIELD, MO 63017
314.231.0100
GBAteam.com

GEORGE BUTLER
ASSOCIATES, INC.
PRO. ENGINEER 000133
ARCHITECT 000212
PRO. LAND SURVEYOR 000059

SHEET 14 OF 20

QUANTITIES

MO ROUTE 100
MANCHESTER ROAD

BRIAN KIERATH
PROFESSIONAL
ENGINEER
PE-2023008624

TEMPORARY EROSION CONTROL (2 OF 4)

SHEET NO.	ROADWAY	STATION BEGIN	STATION END	LOCATION	SILT FENCE (LF)	ALTERNATE DITCH CHECK (LF)	ROCK DITCH CHECK (LF)	CURB INLET CHECK (EA)	SEDIMENT REMOVAL (CUYD)	REMARKS
21	BARRETT PARKWAY DR. N.	2+33.00	4+18.00	RT	185	-	-	-	1.9	
21	BARRETT PARKWAY DR. N.	4+09.11	-	RT	-	-	-	1	1.0	
21	BARRETT PARKWAY DR. N.	2+36.00	4+50.39	LT	214	-	-	-	2.1	
21	BARRETT PARKWAY DR. N.	4+38.69	-	LT	-	-	-	1	1.0	
21 23	RTE 100	1479+39.46	1486+57.68	LT	718	-	-	-	7.2	
22	RTE 100	1482+85.75	-	RT	-	-	-	1	1.0	
22	RTE 100	1483+12.97	-	RT	-	-	-	1	1.0	
22 23	RTE 100	1484+59.00	1486+61.00	RT	202	-	-	-	2.0	
22	RTE 100	1484+60.31	-	RT	-	-	-	1	1.0	
23	RTE 100	1486+25.10	-	RT	-	-	-	1	1.0	
23	RTE 100	1487+02.28	-	RT	-	-	-	1	1.0	
23 24	RTE 100	1487+75.77	1490+73.51	RT	298	-	-	-	3.0	
23	RTE 100	1487+78.00	1488+17.01	LT	39	-	-	-	0.4	
23	RTE 100	1488+75.83	-	RT	-	-	-	1	1.0	
23	RTE 100	1488+92.42	-	RT	-	-	-	1	1.0	
23	RTE 100	1489+51.46	1489+62.20	LT	11	-	-	-	0.1	
23	RTE 100	1489+55.35	-	RT	-	-	-	1	1.0	
23 24	RTE 100	1489+93.97	1492+07.47	LT	214	-	-	-	2.1	
23	RTE 100	1490+04.63	-	RT	-	-	-	1	1.0	
24	RTE 100	1490+49.01	-	RT	-	-	-	1	1.0	
24	RTE 100	1490+91.80	1491+05.69	RT	14	-	-	-	0.1	
24	RTE 100	1490+97.65	-	RT	-	-	-	1	1.0	
24	RTE 100	1491+24.29	1491+48.62	RT	24	-	-	-	0.2	
24	RTE 100	1491+48.17	-	RT	-	-	-	1	1.0	
24	RTE 100	1491+94.34	1494+16.00	RT	222	-	-	-	2.2	
24	RTE 100	1492+79.27	1494+52.03	LT	173	-	-	-	1.7	
24	RTE 100	1494+36.81	-	RT	-	-	-	1	1.0	
24	RTE 100	1494+37.47	-	LT	-	-	-	1	1.0	
24 25	RTE 100	1494+80.39	1495+76.21	LT	96	-	-	-	1.0	
24	RTE 100	1494+94.87	-	LT	-	-	-	1	1.0	
25	RTE 100	1495+42.08	-	LT	-	-	-	1	1.0	
25	RTE 100	1495+82.41	-	RT	-	-	-	1	1.0	
25	RTE 100	1496+04.58	1496+31.27	LT	27	-	-	-	0.3	
25	RTE 100	1496+54.52	1498+65.06	LT	211	-	-	-	2.1	
25	RTE 100	1496+56.16	-	RT	-	-	-	1	1.0	
25	RTE 100	1497+41.72	-	RT	-	-	-	1	1.0	
25	RTE 100	1497+94.34	-	RT	-	-	-	1	1.0	
25	RTE 100	1498+40.56	-	RT	-	-	-	1	1.0	
25 26	RTE 100	1498+95.17	1503+18.44	LT	423	-	-	-	4.2	
25	RTE 100	1499+26.19	-	RT	-	-	-	1	1.0	
26	RTE 100	1500+66.48	-	RT	-	-	-	1	1.0	
26	RTE 100	1502+95.12	1503+21.15	RT	26	-	-	-	0.3	
26 27	RTE 100	1503+86.38	1506+16.81	LT	230	-	-	-	2.3	
26	RTE 100	1503+93.00	1504+08.05	RT	15	-	-	-	0.2	
26	RTE 100	1504+82.58	1504+90.71	RT	8	-	-	-	0.1	
27	RTE 100	1505+74.29	-	RT	-	-	-	1	1.0	
27	RTE 100	1506+49.10	1508+31.63	LT	183	-	-	-	1.8	
27	RTE 100	1508+76.52	1509+39.62	LT	63	-	-	-	0.6	
27 28	RTE 100	1509+86.53	1510+19.58	LT	33	-	-	-	0.3	
28	RTE 100	1510+53.44	1512+40.76	LT	187	-	-	-	1.9	
28 29	RTE 100	1512+75.38	1515+55.22	LT	280	-	-	-	2.8	
29 39	RTE 100	1515+85.83	1519+36.36	LT	351	-	-	-	3.5	
29	RTE 100	1517+42.53	-	LT	-	-	-	1	1.0	
30	RTE 100	1520+30.04	1521+73.14	RT	143	-	-	-	1.4	
30	RTE 100	1520+30.91	1521+83.95	LT	153	-	-	-	1.5	
30 31	RTE 100	1522+39.41	1523+51.59	LT	112	-	-	-	1.1	
31	RTE 100	1524+02.99	1527+56.14	LT	353	-	-	-	3.5	
31	RTE 100	1524+08.75	-	LT	-	-	-	1	1.0	
31	RTE 100	1525+25.78	-	LT	-	-	-	1	1.0	
31 32	RTE 100	1525+99.49	1528+00.78	RT	201	-	-	-	2.0	
31	RTE 100	1526+57.12	-	LT	-	-	-	1	1.0	
32	RTE 100	1528+04.73	1528+61.65	LT	57	-	-	-	0.6	
32	RTE 100	1528+30.27	-	LT	-	-	-	1	1.0	
32	RTE 100	1528+98.81	1529+23.27	LT	24	-	-	-	0.2	
32	RTE 100	1529+55.00	1530+30.67	LT	76	-	-	-	0.8	
32	RTE 100	1529+66.78	-	LT	-	-	-	1	1.0	
32	RTE 100	1530+65.00	1531+30.40	LT	65	-	-	-	0.7	
32 33	RTE 100	1531+73.96	1533+06.63	LT	133	-	-	-	1.3	
33	RTE 100	1533+49.70	1534+09.80	LT	60	-	-	-	0.6	
33	RTE 100	1534+44.98	1534+52.94	LT	8	-	-	-	0.1	
33	RTE 100	1534+95.83	1535+27.48	LT	32	-	-	-	0.3	
				SUBTOTAL 2	5863	0	0	32	90.5	

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STATE OF MISSOURI
BRIAN D. KIERATH JR.
NUMBER PE-2023008624
PROFESSIONAL ENGINEER
04/01/2025 10:40:27 AM
Brian D. Kierath Jr. - Civil
MO PE-2023008624

DATE PREPARED
4/1/2025

ROUTE	STATE
100	MO
DISTRICT	SHEET NO.
SL	3

COUNTY
ST. LOUIS

JOB NO.
J6P3274

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)

GBA
16305 SWINGLEY RIDGE RD
ST. 300
CHESTERFIELD, MO 63017
314.231.0100
GBAteam.com

GEORGE BUTLER
ASSOCIATES, INC.
PRO. ENGINEER 000133
ARCHITECT 000212
PRO. LAND SURVEYOR 000059

BRIAN KIERATH
PROFESSIONAL
ENGINEER
PE-2023008624

SHEET 15 OF 20

QUANTITIES

MO ROUTE 100
MANCHESTER ROAD

TEMPORARY EROSION CONTROL (3 OF 4)

SHEET NO.	ROADWAY	STATION BEGIN	STATION END	LOCATION	SILT FENCE (LF)	ALTERNATE DITCH CHECK (LF)	ROCK DITCH CHECK (LF)	CURB INLET CHECK (EA)	SEDIMENT REMOVAL (CUYD)	REMARKS
33	RTE 100	1535+63.53	1535+73.50	LT	10	-	-	-	0.1	
34	RTE 100	1536+01	-	LT	-	-	-	1	1.0	
34	RTE 100	1536+02	-	RT	-	1	-	-	1.0	
34	RTE 100	1536+03	-	LT	-	1	-	-	1.0	
34	RTE 100	1536+47	1536+69	LT	31	-	-	-	0.3	
34	RTE 100	1536+73	1536+88	RT	28	-	-	-	0.3	
34	RTE 100	1537+74	1538+73	LT	111	-	-	-	1.1	
34	RTE 100	1539+02	1539+71	RT	-	2	1	-	3.0	
34	RTE 100	1539+76.00	1540+62.00	LT	94	-	-	-	0.9	
35	RTE 100	1541+46.00	1543+30.00	RT	-	6	1	-	7.0	
35	RTE 100	1542+52.00	-	LT	-	-	-	1	1.0	
35 36	RTE 100	1543+35.00	1546+79.00	RT	-	13	1	-	14.0	
35	RTE 100	1544+21.00	-	LT	-	-	-	1	1.0	
35 36	RTE 100	1544+18.00	1547+15.00	LT	-	-	1	11	12.0	
35	RTE 100	1545+81.00	-	LT	-	-	-	1	1.0	
36	RTE 100	1547+20.00	1548+71.00	LT	156	-	-	-	1.6	
36	RTE 100	1547+41.00	-	LT	-	-	-	1	1.0	
36	RTE 100	1549+00.00	1549+21.00	LT	22	-	-	-	0.2	
36 37	RTE 100	1549+61.00	1551+91.00	RT	-	8	1	-	9.0	
37	RTE 100	1552+50.00	1552+81.00	RT	41	-	-	-	0.4	
37	RTE 100	1552+84.00	-	RT	-	-	-	1	1.0	
37	RTE 100	1553+48.00	-	RT	-	-	-	1	1.0	
37	RTE 100	1553+67.00	-	RT	-	-	-	1	1.0	
37	RTE 100	1553+90.00	1555+59.00	RT	-	6	1	-	7.0	
37	RTE 100	1554+44.00	1555+88.00	LT	167	-	-	-	1.7	
37	RTE 100	1555+53.00	-	RT	-	-	-	1	1.0	
38 39	RTE 100	1556+30.00	1563+03.00	LT	687	-	-	-	6.9	
38	RTE 100	1556+39.00	1557+30.00	RT	-	3	1	-	4.0	
38	RTE 100	1557+58.00	1559+71.00	RT	-	7	1	-	8.0	
38	RTE 100	1558+01.00	-	RT	-	-	-	1	1.0	
38	RTE 100	1558+04.00	-	LT	-	-	-	1	1.0	
38	RTE 100	1559+71.00	-	RT	-	8	1	-	9.0	
39	RTE 100	1561+12.00	-	RT	-	-	-	1	1.0	
39	RTE 100	1561+54.00	-	RT	-	-	-	1	1.0	
39	RTE 100	1561+87.00	-	LT	-	-	-	1	1.0	
39	RTE 100	1562+15.00	-	RT	-	-	-	1	1.0	
39	RTE 100	156224	1562+69.00	RT	-	1	1	-	2.0	
39	RTE 100	1562+66.00	-	RT	-	-	-	1	1.0	
39	RTE 100	1562+93.00	-	RT	-	-	-	1	1.0	
39	RTE 100	1563+33.00	1565+89.00	LT	279	-	-	-	2.8	
39	RTE 100	1563+38.00	1565+41.00	RT	216	-	-	-	2.2	
39	RTE 100	1563+49.00	-	RT	-	-	-	1	1.0	
39	RTE 100	1563+67.00	1565+33.00	RT	-	6	1	-	7.0	
39	RTE 100	1564+10.00	-	LT	-	-	-	1	1.0	
39	RTE 100	1564+51.00	-	LT	-	-	-	1	1.0	
40	RTE 100	1566+09.00	1567+21.00	RT	117	-	-	-	1.2	
40	RTE 100	1566+24.00	1567+57.00	LT	139	-	-	-	1.4	
40	RTE 100	1566+51.00	-	LT	-	-	-	1	1.0	
40	RTE 100	1566+72.00	-	RT	-	-	-	1	1.0	
40	RTE 100	1567+28.00	1567+62.00	RT	40	-	-	-	0.4	
40	RTE 100	1567+64.00	-	RT	-	-	-	1	1.0	
40	RTE 100	1568+07.00	1569+76.00	LT	176	-	-	-	1.8	
40	RTE 100	1568+22.00	-	RT	-	-	-	1	1.0	
40	RTE 100	1570+22.00	1570+41.00	LT	42	-	-	-	0.4	
41	RTE 100	1572+48.00	-	RT	-	-	-	1	1.0	
41	RTE 100	1573+75.00	-	RT	-	-	-	1	1.0	
41	RTE 100	1574+88.00	-	RT	-	-	-	1	1.0	
41	RTE 100	1574+96.00	-	LT	-	-	-	1	1.0	
41	RTE 100	1575+79.00	-	RT	-	-	-	1	1.0	
42	RTE 100	1577+00.00	1578+63.00	LT	190	-	-	-	1.9	
42	RTE 100	1577+09.00	-	RT	-	-	-	1	1.0	
42	RTE 100	1578+01.00	-	RT	-	-	-	1	1.0	
42	RTE 100	1578+63.00	1578+69.00	LT	8	-	-	-	0.1	
42	RTE 100	1578+69.00	1578+90.00	LT	21	-	-	-	0.2	
42	RTE 100	1578+84.00	-	RT	-	-	-	1	1.0	
42	RTE 100	1578+88.00	-	RT	-	-	-	1	1.0	
42	RTE 100	1578+91.00	1578+99.00	LT	11	-	-	-	0.1	
42	RTE 100	1579+34.00	-	RT	-	-	-	1	1.0	
42	RTE 100	1579+74.00	-	LT	-	-	-	1	1.0	
42	RTE 100	1580+18.00	-	RT	-	-	-	1	1.0	
43	RTE 100	1581+14.00	1583+04.00	LT	192	-	-	-	1.9	
				SUBTOTAL 3	2778	62	11	47	148	

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PROFESSIONAL ENGINEER
04/01/2025 10:40:27 AM
Brian D. Kierath Jr. - Civil
MO PE-2023008624

DATE PREPARED
4/1/2025

ROUTE 100 | STATE MO
DISTRICT SL | SHEET NO. 3
COUNTY ST. LOUIS
JOB NO. J6P3274
CONTRACT ID.
PROJECT NO.
BRIDGE NO.

DATE	DESCRIPTION

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

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GEORGE BUTLER ASSOCIATES, INC.
PRO. ENGINEER 000133
ARCHITECT 000212
PRO. LAND SURVEYOR 000059

BRIAN KIERATH
PROFESSIONAL ENGINEER
PE-2023008624

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

SHEET 16 OF 20

QUANTITIES

MO ROUTE 100
MANCHESTER ROAD

REV.

REMOVE AND RELOCATE EXISTING GROUND MOUNT SIGN					
SHEET NO.	ROADWAY	STATION	LOCATION	REMOVE AND RELOCATING EXISTING GROUND MOUNT SIGN (EA)	REMARKS
9	EB RTE 100	1421+96.66	LT	1	
10	EB RTE 100	1423+28.81	LT	1	
11	EB RTE 100	1431+96.50	LT	2	
11	EB RTE 100	1432+72.92	LT	1	
12	EB RTE 100	1433+44.16	LT	2	
12	EB RTE 100	1434+37.51	LT	1	
13	EB RTE 100	1437+83.74	RT	1	
13	EB RTE 100	1438+51.69	LT	1	
13	EB RTE 100	1439+23.94	LT	1	
13	EB RTE 100	1439+60.18	RT	1	
13	EB RTE 100	1440+26.69	RT	1	
13	EB RTE 100	1440+39.21	LT	1	
13	EB RTE 100	1441+12.15	LT	1	
13	EB RTE 100	1441+79.45	RT	1	
14	EB RTE 100	1445+76.25	LT	1	
14	EB RTE 100	1447+36.12	RT	1	
15	EB RTE 100	1448+24.77	RT	1	
15	EB RTE 100	1449+22.12	RT	1	
15	EB RTE 100	1449+39.79	LT	1	
15	EB RTE 100	1450+43.20	LT	1	
15	EB RTE 100	1450+94.50	LT	1	
15	EB RTE 100	1451+35.26	RT	1	
15	EB RTE 100	1451+38.55	LT	1	
16	EB RTE 100	1456+82.78	LT	1	
16	EB RTE 100	1457+90.10	LT	1	
17	EB RTE 100	1458+92.39	LT	1	
17	EB RTE 100	1459+82.27	LT	1	
17	EB RTE 100	1460+02.24	LT	1	
20	EB RTE 100	1475+00.79	RT	1	
22	EB RTE 100	1481+79.95	LT	1	
23	RTE 100	1485+98.23	LT	1	
23	RTE 100	1488+37.16	RT	1	
24	RTE 100	1491+87.89	LT	1	
24	RTE 100	1492+88.62	LT	1	
24	RTE 100	1493+33.86	LT	1	
24	RTE 100	1493+40.07	LT	1	
24	RTE 100	1493+40.84	LT	1	
24	RTE 100	1494+14.94	LT	1	
25	RTE 100	1495+27.00	LT	5	
25	RTE 100	1499+03.78	LT	1	
26	RTE 100	1502+56.05	LT	1	
26	RTE 100	1503+33.14	LT	1	
26	RTE 100	1503+83.08	LT	1	
28	RTE 100	1514+71.50	LT	1	
29	RTE 100	1516+85.59	LT	1	
29	RTE 100	1517+95.03	LT	1	
31	RTE 100	1523+36.16	LT	1	
31	RTE 100	1524+15.42	LT	1	
31	RTE 100	1525+27.91	LT	1	
31	RTE 100	1525+59.22	LT	1	
31	RTE 100	1527+41.17	LT	1	
34	RTE 100	1538+46.55	RT	1	
34	RTE 100	1540+01.85	LT	1	
34	RTE 100	1540+33.60	RT	1	
35	RTE 100	1541+11.19	LT	1	
35	RTE 100	1543+01.49	LT	1	
36	RTE 100	1546+57.68	LT	1	
37	RTE 100	1552+09.71	LT	1	
37	RTE 100	1555+20.60	RT	1	
40	RTE 100	1569+41.20	RT	1	
42	RTE 100	1578+01.36	LT	1	
43	RTE 100	1582+51.74	LT	1	
43	RTE 100	1582+98.74	LT	1	
43	RTE 100	1585+09.43	LT	1	REMOVE AND REPLACE IN SAME SPOT
43	RTE 100	1585+44.80	LT	1	REMOVE AND REPLACE IN SAME SPOT
			SUBTOTAL	69	
			PROJECT TOTAL	69	

RETAINING WALL							
SHEET NO.	ROADWAY	STATION BEGIN	STATION END	LOCATION	MECHANICALLY STABILIZED EARTH WALL SYSTEMS (SF)	TRAFFIC BARRIER TYPE C (RETAINING WALL) (LF)	REMARKS
39	RTE 100	1584+86.01	1585+68.33	LT	-	84.00	
40	RTE 100	1587+00.33	1587+67.66	RT	357.00	-	
SUBTOTAL					357.00	84.00	
PROJECT TOTAL					357	84	

OPTIONAL PAVEMENT						
SHEET NO.	ROADWAY	STATION BEGIN	STATION END	LOCATION	OPTIONAL PAVEMENT (SQYD)	REMARKS
55-56	WB RTE 100	1454+62.90	1456+35.60	RT	169.41	RIGHT TURN LANE
143	RTE 100	1492+30.00	1495+05.00	RT	89.30	A9276 PHASE 1 WIDENING
144	RTE 100	1492+28.18	1492+91.83	LT	16.54	A9276 PHASE 2 WIDENING
145	RTE 100	1525+56.42	1530+23.00	RT	397.60	A9277 PHASE 1 WIDENING
146	RTE 100	1523+81.93	1524+16.21	LT	6.53	A9277 PHASE 2 WIDENING
146	RTE 100	1524+61.96	1527+42.75	LT	299.26	A9277 PHASE 2 WIDENING
146	RTE 100	1528+09.62	1528+61.48	LT	43.55	A9277 PHASE 2 WIDENING
146	RTE 100	1429+01.93	1529+22.21	LT	7.81	A9277 PHASE 2 WIDENING
SUBTOTAL					1,034.76	
PROJECT TOTAL					1,034.8	

TEMPORARY EROSION CONTROL (4 OF 4)										
SHEET NO.	ROADWAY	STATION BEGIN	STATION END	LOCATION	SILT FENCE (LF)	ALTERNATE DITCH CHECK (LF)	ROCK DITCH CHECK (LF)	CURB INLET CHECK (EA)	SEDIMENT REMOVAL (CUYD)	REMARKS
43	RTE 100	1582+09.00	-	RT	-	-	-	1	1.0	
43	RTE 100	1582+15.00	1582+95.00	LT	98	-	-	-	1.0	
43	RTE 100	1582+99.00	-	LT	-	-	-	1	1.0	
43	RTE 100	1583+56.00	1584+52.00	LT	119	-	-	-	1.2	
43	RTE 100	1584+86.00	1584+91.00	LT	13	-	-	-	0.1	
43	RTE 100	1584+95.00	-	RT	-	-	-	1	1.0	
43	RTE 100	1585+65.00	1585+69.00	LT	4	-	-	-	0.0	
43 44	RTE 100	1585+93.00	1587+00.00	LT	143	-	-	-	1.4	
44	RTE 100	1587+56.00	-	LT	-	-	-	1	1.0	
44	RTE 100	1587+47.00	1587+81.00	RT	99	-	-	-	1.0	
44	RTE 100	1587+63.00	-	RT	-	-	-	1	1.0	
44	RTE 100	1587+62.00	-	RT	-	-	-	1	1.0	
44	RTE 100	1588+87.00	-	RT	-	-	-	1	1.0	
44	RTE 100	1589+32.00	-	RT	-	-	-	1	1.0	
44	RTE 100	1589+38.00	-	LT	-	-	-	1	1.0	
44	RTE 100	1590+15.00	-	RT	-	-	-	1	1.0	
44	RTE 100	1590+36.00	-	LT	-	-	-	1	1.0	
45	RTE 100	1591+32.00	1592+07.00	LT	83	-	-	-	0.8	
45	RTE 100	1591+41.00	-	LT	-	-	-	1	1.0	
45	RTE 100	1591+49.00	-	RT	-	-	-	1	1.0	
45	RTE 100	1591+71.00	-	RT	-	-	-	1	1.0	
45	RTE 100	1591+82.00	-	LT	-	-	-	1	1.0	
45	RTE 100	1582+64.00	-	RT	-	-	-	1	1.0	
55 56	WB ROUTE 100	1454+62.90	1456+34.96	RT	90	-	1	-	1.9	
SUBTOTAL 4					649	0	1	16	23.5	
SUBTOTAL 1					5,510	0	0	28	83.1	
SUBTOTAL 2					5,863	0	0	32	90.5	
SUBTOTAL 3					2,778	62	11	47	147.8	
PROJECT TOTAL					14,800	62	12	123	345	

MOBILIZATION	
TOTAL	1 LUMP SUM

MODOT ITS ASSETS RELOCATION	
TOTAL	1,000 LF

CONTRACTOR FURNISHED SURVEYING AND STAKING	
TOTAL	1 LUMP SUM

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ROUTE 100 | STATE MO
DISTRICT SL | SHEET NO. 3
COUNTY ST. LOUIS
JOB NO. J6P3274
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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ARCHITECT 000212
PRO. LAND SURVEYOR 000059

BRIAN KIERATH
PROFESSIONAL ENGINEER
PE-2023008624

REV.

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

SHEET 17 OF 20

QUANTITIES

MO ROUTE 100
MANCHESTER ROAD

SODDING (1 OF 2)						
ROADWAY	STATION BEGIN	STATION END	LOCATION	TURF TYPE TALL FESCUE SODDING (SY)	LANDSCAPING RESTORATION (SF)	REMARKS
ROUTE 100	1418+96.07	1420+24.69	LT	102.9	-	
ROUTE 100	1420+35.79	1421+03.04	LT	87.6	-	
ROUTE 100	1421+22.75	1422+11.98	LT	121	-	
ROUTE 100	1422+53.88	1423+42.19	LT	60.3	-	
ROUTE 100	1431+62.70	1433+90.54	LT	64.2	-	
ROUTE 100	1432+02.51	1434+61.07	RT	339.1	-	
ROUTE 100	1434+36.41	1436+39.78	LT	92.8	-	
ROUTE 100	1435+10.85	1437+01.43	RT	125.4	-	
ROUTE 100	1437+00.27	1437+77.98	LT	37.3	-	
ROUTE 100	1437+22.34	1437+44.45	RT	7.8	-	
ROUTE 100	1437+76.07	1439+21.01	RT	108.6	-	
ROUTE 100	1438+02.81	1438+59.31	LT	1.3	-	
ROUTE 100	1439+52.52	1439+80.04	RT	18.5	-	
ROUTE 100	1440+20.69	1441+33.14	RT	79.9	-	
ROUTE 100	1440+26.20	1441+20.89	LT	117.7	-	
ROUTE 100	1441+64.51	1445+88.35	LT	516.6	-	
ROUTE 100	1441+65.02	1446+94.10	RT	460.9	-	
ROUTE 100	1446+22.43	1447+66.13	LT	52.3	-	
ROUTE 100	1447+29.50	1447+84.09	RT	31	-	
ROUTE 100	1448+03.15	1449+46.79	LT	55.2	-	
ROUTE 100	1448+17.93	1448+86.71	RT	41.4	-	
ROUTE 100	1449+14.15	1450+94.33	RT	86.8	-	
ROUTE 100	1451+26.65	1452+11.51	RT	42.1	-	
ROUTE 100	1451+26.97	1451+53.29	LT	30.8	-	
ROUTE 100	1453+52.99	1453+60.53	LT	2.2	-	
ROUTE 100	1454+46.05	1456+55.68	RT	336.1	-	
ROUTE 100	1454+63.43	1454+74.66	LT	6.9	-	
ROUTE 100	1455+08.91	1455+45.50	LT	26.1	-	
ROUTE 100	1455+69.71	1456+88.83	LT	80.6	-	
ROUTE 100	1456+97.03	1463+19.30	RT	284	-	
ROUTE 100	1457+17.91	1457+96.52	LT	48.7	-	
ROUTE 100	1458+26.62	1459+02.91	LT	41	-	
ROUTE 100	1459+31.71	1460+06.33	LT	38.4	-	
ROUTE 100	1474+84.88	1479+43.43	RT	756.6	-	
ROUTE 100	1479+05.86	1479+63.99	RT	148.3	-	
ROUTE 100	1479+38.47	1486+52.28	LT	1100.5	-	
ROUTE 100	1484+58.04	1486+63.10	RT	372	-	
ROUTE 100	1487+81.91	1490+73.52	RT	307.8	-	
ROUTE 100	1487+83.43	1488+59.03	LT	15.8	-	
ROUTE 100	1489+47.85	1489+61.85	LT	10.1	-	
ROUTE 100	1489+93.96	1492+02.84	LT	230.8	-	
ROUTE 100	1490+85.66	1491+08.58	RT	17.3	-	
ROUTE 100	1492+93.29	1494+52.53	LT	72.9	-	
ROUTE 100	1494+80.02	1495+76.26	LT	48.8	-	
ROUTE 100	1496+04.59	1496+33.25	LT	26.2	-	
ROUTE 100	1496+54.52	1498+57.41	LT	487.5	-	
ROUTE 100	1498+94.81	1503+10.37	LT	1088.5	-	
ROUTE 100	1502+93.10	1503+22.33	RT	13.1	-	
ROUTE 100	1503+86.38	1506+16.09	LT	143.6	-	
ROUTE 100	1503+93.00	1504+08.05	RT	4.8	-	
ROUTE 100	1506+50.88	1508+30.83	LT	51.9	-	
ROUTE 100	1508+76.52	1509+41.12	LT	11.9	-	
ROUTE 100	1509+83.74	1510+22.45	LT	18.7	-	
ROUTE 100	1510+59.13	1512+40.36	LT	301.1	-	
ROUTE 100	1512+75.65	1513+05.18	LT	42.2	-	
ROUTE 100	1513+35.03	1515+54.77	LT	485.5	-	
ROUTE 100	1515+85.75	1519+36.31	LT	439.5	-	
ROUTE 100	1520+29.65	1521+68.93	RT	246.9	-	
ROUTE 100	1520+35.74	1521+90.98	LT	134.1	-	
ROUTE 100	1522+33.56	1532+51.24	LT	78.8	-	
ROUTE 100	1524+08.85	1527+56.32	LT	137.8	-	
ROUTE 100	1527+52.74	1528+00.75	RT	127.5	-	
ROUTE 100	1528+04.78	1528+61.65	LT	50.8	-	
ROUTE 100	1528+98.76	1529+23.84	LT	16.8	-	
ROUTE 100	1529+55.00	1530+32.37	LT	11.8	-	
SUBTOTAL 1				10,545.4	-	

SODDING (2 OF 2)						
ROADWAY	STATION BEGIN	STATION END	LOCATION	TURF TYPE TALL FESCUE SODDING (SY)	LANDSCAPING RESTORATION (SF)	REMARKS
ROUTE 100	1530+98.24	1531+77.95	LT	19.0	-	
ROUTE 100	1532+40.28	1533+22.66	LT	12.9	-	
ROUTE 100	1533+51.71	1534+29.72	LT	102.4	-	
ROUTE 100	1534+99.69	1535+27.50	LT	24.6	-	
ROUTE 100	1535+61.29	1535+95.27	LT	35.9	-	
ROUTE 100	1536+72.96	1536+93.20	RT	10.9	-	
ROUTE 100	1537+73.96	1539+07.71	LT	8.0	-	
ROUTE 100	1538+00.22	1540+59.24	RT	443.0	-	
ROUTE 100	1539+41.49	1540+62.41	LT	43.1	-	
ROUTE 100	1540+98.43	1541+86.07	LT	44.4	-	
ROUTE 100	1542+18.48	1543+56.13	LT	217.0	-	
ROUTE 100	1543+96.71	1548+70.64	LT	450.7	-	
ROUTE 100	1548+98.36	1549+21.58	LT	21.9	-	
ROUTE 100	1549+60.71	1552+51.60	LT	357.8	-	
ROUTE 100	1552+50.78	1552+83.42	RT	8.1	-	
ROUTE 100	1553+08.03	1553+44.04	LT	13.2	-	
ROUTE 100	1553+46.54	1563+00.68	RT	175.3	-	
ROUTE 100	1554+22.48	1555+87.68	LT	174.1	197	
ROUTE 100	1556+29.61	1557+84.67	LT	135.0	-	
ROUTE 100	1558+92.01	1563+02.53	LT	400.6	-	
ROUTE 100	1562+01.73	1562+77.17	LT	53.7	-	
ROUTE 100	1562+84.17	1563+01.19	LT	15.4	-	
ROUTE 100	1563+34.04	1563+89.19	LT	44.0	-	
ROUTE 100	1563+33.20	1565+89.49	LT	190.7	-	
ROUTE 100	1563+34.29	1565+40.65	RT	110.1	-	
ROUTE 100	1565+56.88	1565+65.17	RT	3.2	-	
ROUTE 100	1566+07.02	1567+61.42	RT	87.3	-	
ROUTE 100	1566+24.20	1567+57.18	LT	125.2	-	
ROUTE 100	1568+06.65	1569+76.56	LT	217.9	-	
ROUTE 100	1568+07.12	1569+43.86	RT	200.3	-	
ROUTE 100	1570+22.38	1570+48.49	LT	14.2	-	
ROUTE 100	1577+00.25	1578+98.67	LT	192.1	-	
ROUTE 100	1581+13.43	1583+04.20	LT	119.9	-	
ROUTE 100	1583+55.67	1584+52.16	LT	119.4	-	
ROUTE 100	1584+85.26	1585+69.18	LT	4.3	-	
ROUTE 100	1585+93.46	1587+00.84	LT	169.8	-	
ROUTE 100	1586+97.04	1587+80.70	RT	192.6	-	
ROUTE 100	1587+04.05	1588+76.35	LT	17.2	82	
ROUTE 100	1587+45.89	1588+63.24	RT	6.8	42	
ROUTE 100	1589+98.99	1591+43.51	RT	12.1	71	
ROUTE 100	1591+32.13	1592+07.37	LT	9.1	79	
ROUTE 100	1591+32.11	1992+07.50	LT	16.3	-	
ROUTE 100	1591+56.92	1592+71.50	RT	-	265	
SUBTOTAL 2				4,619.5	736	
SUBTOTAL 1				10,545	-	
PROJECT TOTAL				15,165	736	

DISCLAIMER
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STATE OF MISSOURI
BRIAN D. KIERATH JR. NUMBER PE-2023008624
PROFESSIONAL ENGINEER
04/01/2025 10:40:28 AM
Brian D. Kierath Jr. - Civil
MO PE-2023008624

DATE PREPARED
4/1/2025

ROUTE	STATE
100	MO
DISTRICT	SHEET NO.
SL	3

COUNTY
ST. LOUIS

JOB NO.
J6P3274

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)

GBA
16305 SWINGLEY RIDGE RD
ST. 300
CHESTERFIELD, MO 63017
314.231.0100
GBAteam.com

GEORGE BUTLER
ASSOCIATES, INC.
PRO. ENGINEER 000133
ARCHITECT 000212
PRO. LAND SURVEYOR 000059

BRIAN KIERATH
PROFESSIONAL
ENGINEER
PE-2023008624

SHEET 18 OF 20

QUANTITIES

MO ROUTE 100
MANCHESTER ROAD

DISCLAIMER
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PERMANENT PAVEMENT MARKING

PLAN SHEET NO.	BEGIN STATION	END STATION	ROADWAY	LOCATION	HIGH BUILD WATERBORNE PAVEMENT MARKING PAINT							STANDARD WATERBORNE PAVEMENT MARKING			PREFORMED THERMOPLASTIC PAVEMENT MARKING								
					4" YELLOW		6" WHITE			6" YELLOW	12" WHITE	4" WHITE	24" WHITE	24" YELLOW	6" SOLID WHITE	24" WHITE, STOP BAR	30" WHITE MIDBLOCK	12" WHITE, YIELD LINE	WORD (ONLY)	COMBINATION STR/LT/RT	STRAIGHT ARROW	LEFT /RIGHT ARROW	MERGE ARROW	BIKE LANE SYMBOL
					620-59.01A		*620-59.02A*																	
					SOLID	INTERMITTENT	SOLID	INTERMITTENT	DOTTED	*620-59.03A*	*620-59.06A*	*620-60.00C*	*620-61.24A*	*620-61.25A*	*620-00.09*	*620-00.15*	*620-00.36*	*620-00.42*	*620-00.30*	*620-00.27*	*620-00.24*	*620-00.21*	*620-99.02*	*620-99.02*
					(LF)	(LF)	(LF)	(LF)	(LF)	(LF)	(LF)	(LF)	(LF)	(LF)	LF	(LF)	(EA)	(EA)	(EA)	(EA)	(EA)	(EA)	(EA)	(EA)
1	-	1425+00	EB ROUTE 100	LT/RT			1190	75		893					85						1			
2	1425+00	1446+00	EB ROUTE 100	LT/RT	41		2165	1528	126	1915	150	1101			195	53			1		10	2		4
3	1446+00	1466+00	EB ROUTE 100	LT/RT			1999	1386	13	2028	180	1956									8			4
4	1466+00	1476+00	EB ROUTE 100	LT/RT			1003	500		999		1003												2
5	-	1428+00	WB ROUTE 100	LT/RT			1874	994	387	2156	335												2	
6	1428+00	1448+00	WB ROUTE 100	LT/RT			3098	497	860	1901			90								6	7		
7	1448+00	1468+00	WB ROUTE 100	LT/RT			2078	644	580	1925	173										2	6		
8	1468+00	1476+00	WB ROUTE 100	LT/RT			2115	586	86	1193												4		1
9	1476+00	1494+00	ROUTE 100	LT/RT	65	18	5544	1451	447	2978		242			327	324	80			1	1	6		
10	1494+00	1516+00	ROUTE 100	LT/RT	3186	739	6758	980	194	991						375	61		2	1		20		
11	1516+00	1534+00	ROUTE 100	LT/RT	4193	283	5224	865	226				63	239	204	290	45					15		
12	1534+00	1556+00	ROUTE 100	LT/RT	4803	626	6938	894								645	108			1		25		
13	1556+00	1576+00	ROUTE 100	LT/RT	3837	341	5322	898	119							499	61		2			17		
14	1576+00	-	ROUTE 100	LT/RT	2933		7208	676	329				105	95	650	528	71	12	1			25		
SUBTOTAL					18358	2007	52516	11974	3367	16979	838	4302	258	334	1461	2714	426	12	6	3	28	127	2	11
TOTALS					20365		67857			16979	838	4302	258	334	1461	2714	426	12	6	3	28	127	2	11

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

DATE PREPARED
3/28/2025

MO ROUTE	STATE
100	MO
DISTRICT	SHEET NO.
SL	3

COUNTY
ST. LOUIS

JOB NO.
J6P3274

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)

GBA
16305 SWINGLEY RIDGE RD
ST. 300
CHESTERFIELD, MO 63017
314.231.C100
GBAteam.com

GEORGE BUTLER ASSOCIATES, INC.
PRO. ENGINEER 000133
ARCHITECT 000212
PRO. LAND SURVEYOR 000059

KENDRA MILLER
PROFESSIONAL ENGINEER
PE-2014041301

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

QUANTITIES

MO ROUTE 100
PAVEMENT MARKING QUANTITIES

EFFECTIVE: 04-01-2024

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)
WO1-1R	48X48	16.00						TURN (SYMBOL RIGHT)
WO1-2L	48X48	16.00						CURVE (SYMBOL LEFT)
WO1-2R	48X48	16.00						CURVE (SYMBOL RIGHT)
WO1-3L	48X48	16.00						REVERSE TURN (SYMBOL LEFT)
WO1-3R	48X48	16.00						REVERSE TURN (SYMBOL RIGHT)
WO1-4L	48X48	16.00						REVERSE CURVE (SYMBOL LEFT)
WO1-4R	48X48	16.00						REVERSE CURVE (SYMBOL RIGHT)
WO1-4bL	48X48	16.00						DOUBLE ARROW REVERSE CURVE (SYMBOL LEFT)
WO1-4bR	48X48	16.00						DOUBLE ARROW REVERSE CURVE (SYMBOL RIGHT)
WO1-4cL	48X48	16.00						TRIPLE ARROW REVERSE CURVE (SYMBOL LEFT)
WO1-4cR	48X48	16.00						TRIPLE ARROW REVERSE CURVE (SYMBOL RIGHT)
WO1-6	60X30	12.50						HORIZONTAL ARROW (SYMBOL)
WO1-6a	72X36	18.00						HORIZ. ARROW (SYMBOL ON PERMANENT BARRICADE)
WO1-7	60X30	12.50						DOUBLE HEAD HORIZONTAL ARROW (SYMBOL)
WO1-7a	72X36	18.00						DOUBLE HEAD HORIZ. ARROW (SYMBOL ON PERM. BARR.)
WO1-8	18X24	3.00						CHEVRON (SYMBOL)
WO1-8a	30X36	7.50						CHEVRON (SYMBOL FOR DIVIDED HIGHWAYS)
WO3-1	48X48	16.00						STOP AHEAD (SYMBOL)
WO3-2	48X48	16.00						YIELD AHEAD (SYMBOL)
WO3-3	48X48	16.00						SIGNAL AHEAD (SYMBOL)
WO3-4	48X48	16.00						BE PREPARED TO STOP
WO3-5	48X48	16.00	3	48.00	7	112.00	3	SPEED LIMIT AHEAD
WO4-1L	48X48	16.00						MERGE (SYMBOL FROM LEFT)
WO4-1R	48X48	16.00						MERGE (SYMBOL FROM RIGHT)
WO4-1aL	48X48	16.00	1	16.00			6A	MERGE (LEFT)
WO4-1aR	48X48	16.00	1	16.00			6A	MERGE (RIGHT)
WO5-1	48X48	16.00						ROAD/BRIDGE/RAMP NARROWS
WO5-3	48X48	16.00						ONE LANE BRIDGE
WO5-5	48X48	16.00						NARROW LANES
WO6-1	48X48	16.00						DIVIDED HIGHWAY (SYMBOL)
WO6-2	48X48	16.00						DIVIDED HIGHWAY END (SYMBOL)
WO6-3	48X48	16.00						TWO WAY TRAFFIC (SYMBOL)
WO7-3a	30X24	5.00						NEXT XX MILES (PLAQUE)
WO8-1	48X48	16.00						BUMP
WO8-2	48X48	16.00						DIP
WO8-3	48X48	16.00						PAVEMENT ENDS
WO8-4	48X48	16.00						SOFT SHOULDER
WO8-5	48X48	16.00						SLIPPERY WHEN WET (SYMBOL)
WO8-6	48X48	16.00						TRUCK CROSSING
WO8-6c	48X48	16.00						TRUCK ENTRANCE
WO8-7	36X36	9.00						LOOSE GRAVEL
WO8-7a	36X36	9.00						FRESH OIL / LOOSE GRAVEL
WO8-9	48X48	16.00						LOW SHOULDER
WO8-11	48X48	16.00						UNEVEN LANES
WO8-12	48X48	16.00						NO CENTER LINE
WO8-15	48X48	16.00						GROOVED PAVEMENT
WO8-15P	30X24	5.00						MOTORCYCLE (PLAQUE)
WO8-17L	48X48	16.00						SHOULDER DROP-OFF (SYMBOL LEFT)
WO8-17R	48X48	16.00						SHOULDER DROP-OFF (SYMBOL RIGHT)
WO8-17P	30X24	5.00						SHOULDER DROP-OFF (PLAQUE)
W10-1	42RND.	9.62						RAILROAD CROSSING
WO12-1	24X24	4.00	1	4.00			59	DOUBLE DOWN ARROW (SYMBOL)
WO12-2	48X48	16.00						LOW CLEARANCE (SYMBOL)
WO12-2x	24X18	3.00						LOW CLEARANCE (PLAQUE)
WO12-2a	84X24	14.00						OVERHEAD LOW CLEARANCE (FEET AND INCHES)
WO12-4	120X60	50.00						LOW CLEARANCE XX FT XX IN XX MILES AHEAD
WO12-5	120X60	50.00						WIDTH RESTRICTION XX FT XX IN XX MILES AHEAD
WO13-1	30X30	6.25	8	50.00	20	125.00	44	ADVISORY SPEED (PLAQUE)
WO16-2	30X24	5.00						XXX FEET (PLAQUE)
WO16-3	30X24	5.00						X MILE (PLAQUE)
WO20-1	48X48	16.00	5	80.00	11	176.00	2	ROAD/BRIDGE/RAMP WORK AHEAD
WO20-2	48X48	16.00	1	16.00			18	DETOUR AHEAD
WO20-3	48X48	16.00						ROAD CLOSED AHEAD
WO20-4	48X48	16.00						ONE LANE ROAD AHEAD
WO20-5	48X48	16.00	2	32.00	2	32.00	5	RIGHT/CENTER/LEFT LANE CLOSED AHEAD
WO20-5a	48X48	16.00						2 RIGHT/CENTER/LEFT LANES CLOSED AHEAD
WO20-6a	48X48	16.00	1	16.00	1	16.00	6	RIGHT/CENTER/LEFT LANE CLOSED
WO20-7a	48X48	16.00						FLAGGER (SYMBOL)
WO21-2	36X36	9.00						FRESH OIL
WO21-5	48X48	16.00						SHOULDER WORK / SHOULDER WORK AHEAD
WO22-1	48X48	16.00						BLASTING ZONE AHEAD
WO22-2	42X36	10.50						TURN OFF 2-WAY RADIO AND PHONE
WO22-3	42X36	10.50						END BLASTING ZONE
GO22-1	21X15	2.19						WET PAINT (ARROW PIVOTS)

SIGN	SIZE IN.	AREA SQ.FT.	QTY EACH	TOTAL SQ.FT.	QTY RELOC EACH	TOTAL RELOC SQ.FT.	SIGN 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
GO20-1	60X24	10.00						ROAD WORK NEXT XX MILES
GO20-2	48X24	8.00	5	40.00	11	88.00	26	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	4	24.00	10	60.00	54	WORK ZONE (PLAQUE)
MO4-8a	24X18	3.00	1	3.00			52	END DETOUR
MO4-9L	48X36	12.00						DETOUR (LEFT)
MO4-9R	48X36	12.00						DETOUR (RIGHT)
MO4-9P	48X12	4.00						STREET NAME (PLAQUE)
MO4-10L	48X18	6.00						DETOUR ARROW (LEFT)
MO4-10R	48X18	6.00						DETOUR ARROW (RIGHT)
REGULATORY SIGNS								
R1-1	48X48	13.25	2	26.50	2	26.50	41	STOP
R1-2	48TRI.	6.93						YIELD
R1-2a	36X36	9.00						TO ONCOMING TRAFFIC (PLAQUE)
R1-3P	30X12	2.50						ALL WAY (PLAQUE)
R2-1	36X48	12.00	7	84.00	17	204.00	48/25	SPEED LIMIT XX
R3-1	48X48	16.00						NO RIGHT TURN (SYMBOL)
R3-2	48X48	16.00	10	160.00	27	432.00	56	NO LEFT TURN (SYMBOL)
R3-3	36X36	9.00						NO TURNS
R3-4	48X48	16.00						NO U-TURN (SYMBOL)
R3-7L	30X30	6.25						LEFT LANE MUST TURN LEFT
R3-7R	30X30	6.25						RIGHT LANE MUST TURN RIGHT
R4-1	36X48	12.00						DO NOT PASS
R4-2	36X48	12.00						PASS WITH CARE
R4-7a	36X48	12.00						KEEP RIGHT (HORIZONTAL ARROW)
R4-8a	36X48	12.00						KEEP LEFT (HORIZONTAL ARROW)
R5-1	30X30	6.25						DO NOT ENTER
R5-1a	36X24	6.00						WRONG WAY
R6-1L	54X18	6.75						ONE WAY ARROW (LEFT)
R6-1R	54X18	6.75						ONE WAY ARROW (RIGHT)
R6-2L	24X30	5.00						ONE WAY (LEFT)
R6-2R	24X30	5.00						ONE WAY (RIGHT)
R9-9	24X12	2.00	2	4.00	2	4.00	60	SIDEWALK CLOSED
R9-11L	24X18	3.00						SIDEWALK CLOSED AHEAD, (ARROW LEFT) CROSS HERE
R9-11R	24X18	3.00						SIDEWALK CLOSED AHEAD, (ARROW RIGHT) CROSS HERE
R10-6	24X36	6.00						STOP HERE ON RED (45^ ARROW)
R11-2	48X30	10.00	5	50.00	5	50.00	29	ROAD CLOSED
R11-3a	60X30	12.50						ROAD CLOSED XX MILES AHEAD LOCAL TRAFFIC ONLY
R11-4	60X30	12.50	1	12.50			58	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
W024-1L	48X48	16.00	4	64.00	9	144.00	55	DOUBLE REVERSE CURVE (SYMBOL LEFT)(2 LANES)
W024-1R	48X48	16.00	4	64.00	11	176.00	55	DOUBLE REVERSE CURVE (SYMBOL RIGHT)(2 LANES)
SPECIAL	VAR.	29.70	12	356.40			50A-50G	DETOUR ASSEMBLY

	TOTAL
616-10.05 CONSTRUCTION SIGNS	1,167
616-10.10 RELOCATED SIGNS	1,646

ITEM NUMBER	TOTAL QTY	DESCRIPTION
6122008		IMPACT ATTENUATOR 40 MPH (SAND BARRELS)
6122009	2*	IMPACT ATTENUATOR 45 MPH (SAND BARRELS)
6122010		IMPACT ATTENUATOR 50 MPH (SAND BARRELS)
6122012		IMPACT ATTENUATOR 55 MPH (SAND BARRELS)
6122014		IMPACT ATTENUATOR 60 MPH (SAND BARRELS)
6122017		IMPACT ATTENUATOR 65 MPH (SAND BARRELS)
6122019		IMPACT ATTENUATOR 70 MPH (SAND BARRELS)
6122020	5*	REPLACEMENT SAND BARREL
6122030	5*	IMPACT ATTENUATOR (RELOCATION)
6123001		TRUCK MOUNTED ATTENUATOR (TMA)
6161008		ADVANCED WARNING RAIL SYSTEM
6161012		BUOYS (BOATS KEEP OUT)
6161013		BUOYS (NO WAKE)
6161014		SPECIAL SIGN ASSEMBLY (BOATS KEEP OUT)
6161025	232	CHANNELIZER (TRIM LINE)
6161030	26	TYPE III MOVEABLE BARRICADE
6161033	12	DIRECTION INDICATOR BARRICADE
6161040	1	FLASHING ARROW PANEL
6161047		TYPE III OBJECT MARKER
6161055		SEQUENTIAL FLASHING WARNING LIGHT
6161070	32	TUBULAR MARKER
6161095		RADAR SPEED ADVISORY SYSTEM
6161096		CHANGEABLE MESSAGE SIGN, COMMISSION FURNISHED/RETAINED
6161098A	1*	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
6173600D	513*	TEMPORARY TRAFFIC BARRIER CONTRACTOR FURNISHED/RETAINED
6173602B		TEMPORARY TRAFFIC BARRIER CONTRACTOR FURNISHED/COMMISSION RETAINED
6174000A		TEMP. TRAFFIC BARRIER HEIGHT TRANSITION
6175010A	1,325*	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
6205301B	* 16,000	TEMPORARY REMOVABLE MARKING TAPE 4 IN., WHITE
6205303B	* 7,812	TEMPORARY REMOVABLE MARKING TAPE 4 IN., YELLOW
6122040	5*	WORK ZONE CRASH CUSHION (NARROW)
6122041	6*	WORK ZONE CRASH CUSION (NARROW) (RELOCATION)

* ITEMS NOT INCLUDED IN TEMPORARY TRAFFIC CONTROL - 1 LUMP SUM

NOTE: ALL TRAFFIC CONTROL ARE INCLUDED IN PAY ITEM 616-99.01, LUMP SUM TEMPORARY TRAFFIC CONTROL UNLESS NOTED OTHERWISE IN THE PLANS. THESE QUANTITIES ARE ONLY AN ESTIMATE AND ARE SUBJECT TO CHANGE BASED UPON FIELD CONDITIONS.

ALL TRAFFIC CONTROL ITEMS ARE INCLUDED IN THE ITEM NO. 6169901. TEMPORARY TRAFFIC CONTROL, LUMP SUM, UNLESS OTHERWISE NOTED.

SHEET 20 OF 20

TRAFFIC CONTROL SHEET

MO ROUTE 100
TRAFFIC CONTROL QUANTITIES

STATE OF MISSOURI
KENDRA MILLER
NUMBER PE-2014041301
PROFESSIONAL ENGINEER

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

DATE PREPARED 3/28/2025

MO ROUTE	STATE
100	MO
DISTRICT	SHEET NO.
SL	3

COUNTY: ST. LOUIS
JOB NO.: J6P3274
CONTRACT ID.:
PROJECT NO.:
BRIDGE NO.:

REV.	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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314.231.0100
GBAteam.com

GEORGE BUTLER ASSOCIATES, INC.
PRO. ENGINEER 000133
ARCHITECT 000212
PRO. LAND SURVEYOR 000059

KENDRA MILLER
PROFESSIONAL ENGINEER
PE-2014041301

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MO ROUTE 100 (MANCHESTER ROAD)
ADA, SIGNAL AND PAVEMENT IMPROVEMENTS
F01813 AND F01822 REPLACEMENTS
A09602 AND A50161 REHABILITATION

MoDOT JOB NO. J6P3274

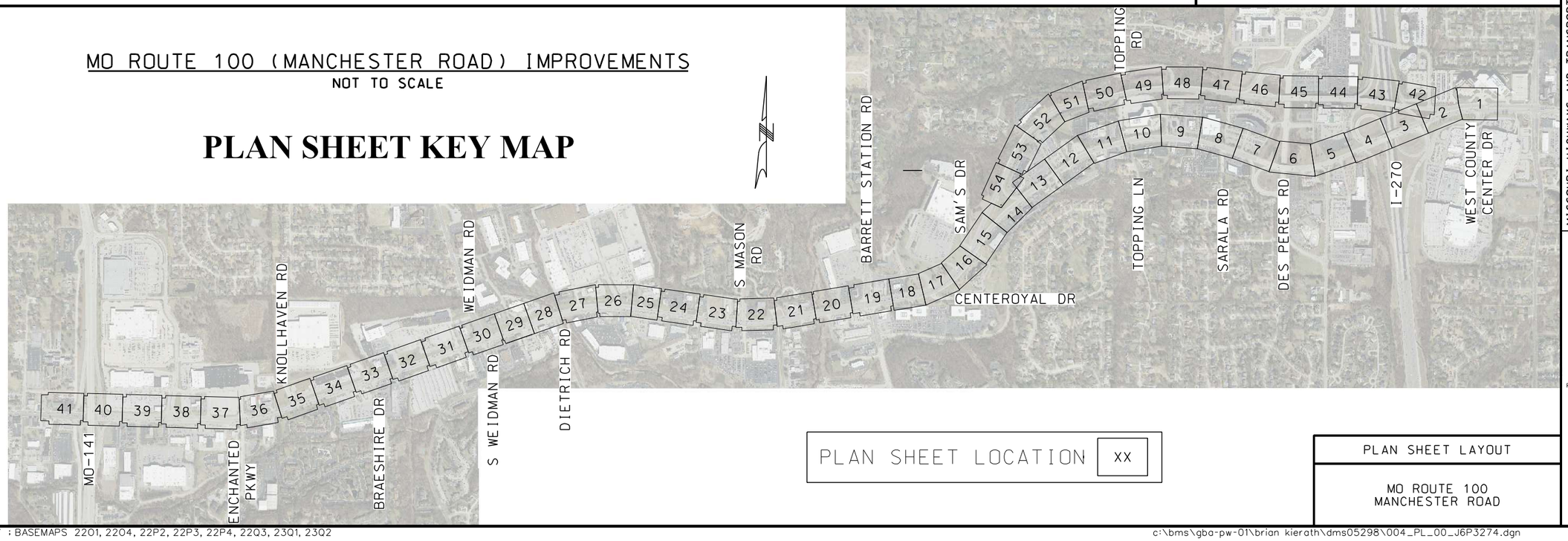
GENERAL PLAN SHEET NOTES

1. ANY WORK INDICATED ON THE PLANS THAT EXTENDS BEYOND THE PROJECT LIMITS IS CONSIDERED INCIDENTAL TO AND PART OF THE CONSTRUCTION OF THIS PROJECT.
2. THE BASIS OF BEARING IS U.S. STATE PLANE NAD83 SONE 2401 (MISSOURI EAST). VERTICAL DATUM IS NAVD88.
3. RIGHT OF WAY LIMITS FOR THIS PROJECT EXTEND FROM STATION 1410+10 TO STATION 1593+00, MO ROUTE 100 (MANCHESTER ROAD), A DISTANCE OF 3.46 MILES.
4. ALL STATION CALLOUTS ARE FROM THE CONSTRUCTION BASELINE FOR MANCHESTER ROAD (ROUTE 100), UNLESS OTHERWISE NOTED.
5. SEE SIGNAL SHEETS FOR SIGNAL-RELATED REMOVALS.
6. SEE SIGNING SHEETS FOR SIGNING-RELATED REMOVALS.
7. UNDERGROUND FACILITIES, STRUCTURES AND UTILITITES HAVE BEEN PLOTTED FROM AVAILABLE SURVEY AND RECORDS. THE COMMISSIONDOES NOT WARRANT THE LOCATIONS OF THESE FACILITIES AS PRECISE. IT IS POSSIBLE THERE MAY BE OTHERS, THE EXISTENCE OF WHICH IS PRESENTLY NOT KNOWN OR SHOWN. IT IS THE CONTRACTOR'S RESPONSIBILLITY TO DETERMINE THE EXISTENCE AND PRECISE LOCATION OF ALL FACILITIES AND TO AVOID DAMAGE. SEE THE JOB SPECIAL PROVISIONS FOR A LIST OF UTILITY COMPANIES ON OR WITHIN THE VICINITY OF THE PROJECT LIMITS.
8. SEE GEOMETRIC SHEETS FOR INTERSECTION STATION TIES, CURVE DATA, ANGLES AND COORDINATE POINT INFORMATION.
9. CONTRACTOR SHALL REFERENCE AND FOLLOW THE MODOT ADA CHECKLIST WHEN LAYING OUT AND CONSTRUCTING CURB RAMPS, LANDINGS, SIDEWALK, PAVED APPROACH PATHWAYS/CONNECTIONS, PEDESTRIAN SIGNALS, AND ANY OTHER PEDESTRIAN ITEMS ON THIS PROJECT.
10. ALL ENTRANCES IN LOCATIONS OF SIDEWALK HAVE BEEN CHECKED FOR ADA COMPLIANCE. ENTRANCES IN THESE LOCATIONS WITH NO PROPOSED WORK WERE FIELD VERIFIED AND DETERMINED TO MEET ADA STANDARDS AT THE TIME OF THE FIELD VISIT.
11. THERE SHALL BE A MINIMUM OF 4 FOOT OF HORIZONTAL SIDEWALK CLEAR SPACE AROUND FEATURES SUCH AS EXISTING POWER POLES, EXISTING LIGHT POLES, EXISTING MAST ARMS, NEW SIGNAL MAST ARMS, NEW SIGNAL 8 FOOT TALL POSTS, AND ANY OTHER FEATURES THAT PROTRUDE ABOVE THE GROUND ALONG THE ROADSIDE WHERE THERE IS SIDEWALK.
12. CLEARANCE AND GRUBBING IS CONSIDERED INCIDENTAL TO OTHER ITEMS WITH NO DIRECT PAY.
13. NOT ALL EXISTING FEATURES/ITEMS HAVE PLAN CALLOUTS SUCH AS (UIP) AND (DND). THE CONSTRACTOR SHALL CONSULT WITH THE ENGINEER ON THE DIRECTTION OF SUCH ITEMS.
14. THE MILL AND OVERLAY LIMITS SHOWN AT SIDE STREETS MAY BE FIELD ADJUSTED BY THE ENGINEER.
15. ALL EXISTING DRAINAGE STRUCTURES WITHING THE MILL AND OVERLAY LIMITS SHALL BE ADJUSTED TO GRADE, IF NEEDED, AT THE DISCRETION OF THE MSD FIELD INSPECTOR.
16. CENTERLINE SHOWN IS A CONSTRUCTION BASELINE SPECIFIC TO THIS PROJECY AND NOT THE ORIGINAL LEGACY CENTERLINE.
17. EXISTING WATER AND SANITARY CONNECTIONS WILL NOT BE MODIFIED WITH THIS WORK.
18. PER MSD BASE MAP THIS SITE LIES NEAR, PARTIALLY WITHIN, OR ENTIRELY WITHIN A HAZARDOUS AREA.
19. CONSTRUCTION SITE RUNOFF SHALL NOT FLOW INTO BMP AREAS. ALL STORMWATER FLOW TO BMP AREAS SHALL BE DIVERTED, PLUGGED, OR DISCONNECTED UNTIL THE CONSTRUCTION SITE IS STABLE AND THE MSD INSPECTOR PROVIDES APPROVAL TO PLACE THE BMP ON-LINE.
20. THE DETAIL DRAWINGS SHOWN HERE ARE ONLY FOR PRIVATE CONSTRUCTION THAT IS NOT UNDER MSD PERMITS. REFER TO MSD STANDARD CONSTRUCTION SPECIFICATIONS AND STANDARD DETAILS FOR PUBLIC SEWER CONSTRUCTION UNDER MSD PERMITS.
21. THE CONTRACTOR SHALL STAY WITHIN THE LIMITS OF DISTURBANCE AS SHOWN ON THE PLANS AND MINIMIZE DISTURBANCE WITHIN THE WORK AREA WHENEVER POSSIBLE.

ALL STORM AND SANITARY SEWER STRUCTURES AND APPURTENANCES TO BE DEDICATED TO MSD, OR TO BE PRIVATE UNDER MSD INSPECTION, SHALL CONFORM TO THE METROPOLITAN ST. LOUIS SEWER DISTRICT, STANDARD CONSTRUCTION SPECIFICATIONS FOR SEWERS AND DRAINAGE FACILITIES, 2023.
THAT WILL INCLUDE STANDARD DETAILS SHOWN THEREIN, ALL SUBSEQUENT CHANGES MADE THERETO, AND SHALL ALSO INCLUDE THE FOLLOWING:
PART 2 - MATERIALS OF CONSTRUCTION
SECTION G PIPE.
12. CORRUGATED POLYPROPYLENE PIPE.
D. PIPE FOR GRAVITY SEWER INSTALLATIONS SHALL BE INSTALLED IN ACCORDANCE WITH ASTM D2321. CONSOLIDATION BY WATER (JETTING OR PUDDLING) SHALL NOT BE USED. CONSOLIDATION SHALL BE IN ACCORDANCE WITH MSD STANDARD CONSTRUCTION SPECIFICATIONS FOR TRENCH BACKFILL. PRICE FOR COMPACTED BACKFILL SHALL BE INCLUDED IN PIPE UNIT COST.
1. FOR USE IN SANITARY AND COMBINED SEWER INSTALLATIONS, A REPRESENTATIVE FROM THE PIPE MANUFACTURER SHALL VISIT THE SITE WITHIN THE FIRST 100 FEET OF PIPE INSTALLATION. COORDINATION OF THIS SITE VISIT SHALL BE ARRANGED BY THE CONTRACTOR. THE CONTRACTOR SHALL PROVIDE THE MSD INSPECTOR AT LEAST 24 HOURS'NOTICE OF THE PLANNED DATE AND TIME OF THE MANUFACTURER'S SITE VISIT.
2. FOLLOWING THE SITE VISIT, THE CONTRACTOR SHALL BE REQUIRED TO PROVIDE A LETTER FROM THE PIPING MANUFACTURER SUMMARIZING THEIR OBSERVATIONS. AT A MINIMUM, THE LETTER SHALL:
A) INDICATE THE DATE THE INITIAL SECTION OF PIPE WAS INSTALLED; AND
B) VERIFY THAT THE INSTALLATION OCCURRED IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDED PROCEDURES.
E. TRENCH WIDTH SHALL BE IN ACCORDANCE WITH MANUFACTURER'S INSTALLATION RECOMMENDATIONS. DISTRICT STANDARD PAYLINE WIDTHS BASED ON THE NOMINAL INSIDE PIPE DIAMETER SHALL APPLY.

MO ROUTE 100 (MANCHESTER ROAD) IMPROVEMENTS
NOT TO SCALE

PLAN SHEET KEY MAP



PLAN SHEET LOCATION XX

PLAN SHEET LAYOUT

MO ROUTE 100
MANCHESTER ROAD

BRIAN KIERATH
PROFESSIONAL
ENGINEER
PE-2023008624

STATE OF MISSOURI
BRIAN D. KIERATH JR.
NUMBER PE-2023008624
PROFESSIONAL ENGINEER
04/01/2025 10:40:29 AM
Brian D. Kierath Jr. - Civil
MO PE-2023008624

DATE PREPARED 4/1/2025

ROUTE	STATE
100	MO
DISTRICT	SHEET NO.
SL	4

COUNTY ST. LOUIS
JOB NO. J6P3274
CONTRACT ID.
PROJECT NO.
BRIDGE NO.

REV.	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)

GBA
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314.231.0100
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GEORGE BUTLER
ASSOCIATES, INC.
PRO. ENGINEER 000133
ARCHITECT 000212
PRO. LAND SURVEYOR 000059

SCALE

0 20 40 60

PROP_100	
PI	1402+23.40
PC	1400+00.00
PT	1404+40.81
△	22°57'37.4" (LT)
D	5°12'31.3"
L	440.81'
T	223.40'
R	1,100.00'

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WEST COUNTY CENTER DR

EXIST. MEDIAN (UIP)
TREES (DND)
EXIST. GUARDRAIL (UIP)
EXIST. LIGHT POLE (UIP)
EXIST. ISLAND (UIP)
EXIST. SIGN (UIP)
EXIST. SIGN (UIP)
EXIST. LIGHT POLE (UIP)
EXIST. SIGN (UIP)
EXIST. PULL BOX (UIP)
TREES (DND)
EXIST. LIGHT POLE (UIP)
EXIST. PULL BOX (UIP)
EXIST. GAS VALVE (UIP)
EXIST. 12IN PIPE (UIP)
EXIST. INLET (UIP)
EXIST. MH LID (UIP)
EXIST. PULL BOX (UIP)
EXIST. CURB (UIP)
EXIST. CURB (UIP)
EXIST. P RISER (UIP)
EXIST. SIDEWALK (UIP)
EXIST. PULL BOX (UIP)
EXIST. SIGN (UIP)
EXIST. PULL BOX (UIP)
EXIST. WATER VALVE (UIP)
EXIST. SIGN (UIP)
EXIST. PULL BOX (UIP)
EXIST. MEDIAN (UIP)
EXIST. MEDIAN (UIP)
EXIST. SIGN (UIP)
EXIST. 12IN PIPE (UIP)
EXIST. STORM MH (UIP)
EXIST. 12IN PIPE (UIP)
EXIST. TELE. MH (UIP)
EXIST. WATER VALVE (UIP)
EXIST. ISLAND (UIP)
EXIST. PULL BOX (UIP)
EXIST. ISLAND (UIP)
EXIST. SIGN (UIP)
EXIST. CURB (UIP)
EXIST. LIGHT POLE (UIP)
TREES (DND)
EXIST. SIGN (UIP)
EXIST. 15IN PIPE (UIP)
EXIST. STORM MH (UIP)
EXIST. SIDEWALK (UIP)
EXIST. 15IN PIPE (UIP)
EXIST. CURB (UIP)
EXIST. STORM MH (UIP)
EXIST. P RISER (UIP)
EXIST. SIGN (UIP)
EXIST. 6IN PIPE (UIP)
MODOT ITS
EXIST. INLET (UIP)
EXIST. TELE. MH (UIP)
TREES (DND)
EXIST. 12IN PIPE (UIP)
EXIST. STORM MH (UIP)
EXIST. WATER VALVE (UIP)
EXIST. HYDRANT (UIP)
EXIST. PULL BOX (UIP)
EXIST. ELEC. MH (UIP)
EXIST. CURB (UIP)
EXIST. SIDEWALK (UIP)
EXIST. SIGN (UIP)
EXIST. LANDSCAPING (UIP)
TREES (DND)
EXIST. PULL BOX (UIP)
EXIST. CURB (UIP)
EXIST. SIDEWALK (UIP)
EXIST. INLET (UIP)
EXIST. SIGN (UIP)
EXIST. LIGHT POLE (UIP)
EXIST. 12IN PIPE (UIP)

START STA 1400+00.00
1400 1400+00.00
PRC STA 1401+68.91
℄ ROUTE 100 EB
℄ ROUTE 100 WB
MATCHLINE STA. 1403+00.00
MATCHLINE STA. 1403+00.00

PROP_100_WB	
PI	1400+84.62
PC	1400+00.00
PT	1401+68.91
△	8°42'11.9" (LT)
D	5°9'9.0"
L	168.91' (ARC)
T	84.62'
R	1,112.00'

PROP_100_WB	
PI	1402+55.59
PC	1401+68.91
PT	1403+42.25
△	2°21'42.0" (RT)
D	1°21'44.9"
L	173.33' (ARC)'
T	86.68'
R	4,205.24'

PLAN SHEET LEGEND
- EXISTING RIGHT-OF-WAY (EXIST. ROW)
- PERMANENT EASEMENT (P.H.E.)
- TEMPORARY CONSTRUCTION EASEMENT (T.C.E.)
- CONSTRUCTION LIMITS (SL)
- PROPOSED EPOXY URETHANE POLYMER OVERLAY
- SIDEWALK REMOVAL
- PROPOSED SIDEWALK
- PROPOSED MILL/OVERLAY

SHEET 1 OF 54

PLAN SHEET

MO ROUTE 100
MANCHESTER ROAD

STATE OF MISSOURI
BRIAN D. KIERATH JR.
NUMBER PE-2023008624
PROFESSIONAL ENGINEER
04/01/2025 10:40:30 AM
Brian D. Kierath Jr. - Civil
MO PE-2023008624

DATE PREPARED 4/1/2025

ROUTE	STATE
100	MO
DISTRICT	SHEET NO.
SL	5

COUNTY ST. LOUIS
JOB NO. J6P3274
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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GEORGE BUTLER ASSOCIATES, INC.
PRO. ENGINEER 000133
ARCHITECT 000212
PRO. LAND SURVEYOR 000059

BRIAN KIERATH
PROFESSIONAL ENGINEER
PE-2023008624

SCALE
0 20 40 60

PROP_100_WB	
PI	1405+49.51
PC	1403+42.25
PT	1407+53.77
△	16°50'30.8" (RT)
D	4°5'33.2"
L	411.52' (ARC)
T	207.26'
R	1,400.00'

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STATE OF MISSOURI
BRIAN D. KIERATH JR.
NUMBER PE-2023008624
PROFESSIONAL ENGINEER
04/01/2025 10:40:30 AM
Brian D. Kierath Jr. - Civil
MO PE-2023008624

DATE PREPARED 4/1/2025
ROUTE 100 | STATE MO
DISTRICT SL | SHEET NO. 6
COUNTY ST. LOUIS
JOB NO. J6P3274
CONTRACT ID.
PROJECT NO.
BRIDGE NO.

DESCRIPTION | DATE

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PRO. ENGINEER 000133
ARCHITECT 000212
PRO. LAND SURVEYOR 000059

BRIAN KIERATH
PROFESSIONAL ENGINEER
PE-2023008624

WEST COUNTY CENTER DR

STA. 1403+00.00 MATCHLINE

STA. 1408+00.00 MATCHLINE

PCC STA 1403+42.25

PT STA 1404+40.81

PT STA 1407+53.77

1405

℄ ROUTE 100 EB

S67°44'22"W

℄ ROUTE 100 WB

I-270 RAMP

TREES (DND)
EXIST. UNK WATER UTILITY
EXIST. CURB (UIP)
EXIST. LIGHT POLE (UIP)
EXIST. PULL BOX (UIP)
EXIST. SIGN (UIP)
EXIST. 12IN PIPE (UIP)
EXIST. DITCH (UIP)
MODOT ITS
EXIST. SIDEWALK (UIP)
EXIST. BARRIER (UIP)
EXIST. INLET (UIP)
EXIST. ISLAND (UIP)
EXIST. SIGN (UIP)
EXIST. PULL BOX (UIP)
EXIST. MEDIAN (UIP)
EXIST. CURB (UIP)
EXIST. TELE. MH (UIP)
EXIST. HANDRAIL AND RETAINING WALL (UIP)
EXIST. GUY WIRE (UIP)
EXIST. PP (UIP)
EXIST. ELEC. MH (UIP)
EXIST. STORM MH (UIP)

PLAN SHEET LEGEND
- EXISTING RIGHT-OF-WAY (EXIST. ROW)
- PERMANENT EASEMENT (P.H.E.)
- TEMPORARY CONSTRUCTION EASEMENT (T.C.E.)
- CONSTRUCTION LIMITS (SL)
- PROPOSED EPOXY URETHANE POLYMER OVERLAY
- SIDEWALK REMOVAL
- PROPOSED SIDEWALK
- PROPOSED MILL/OVERLAY

PLAN SHEET

MO ROUTE 100
MANCHESTER ROAD

SCALE
0 20 40 60

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MATCHLINE STA. 1408+00.00

MATCHLINE STA. 1413+00.00

EXIST. INLET (UIP)
EXIST. LIGHT POLE (UIP)
EXIST. INLET (UIP)
MODOT ITS
EXIST. SIGN (UIP)
EXIST. ISLAND (UIP)
EXIST. CURB (UIP)
1410
℄ ROUTE 100 STA. 1409+65 TO STA. 1409+90 LT
INSTALL 25' MGS GUARDRAIL
W/ 1 MGS END ANCHOR
& 1 MGS BRIDGE APPROACH TRANSITION SECTION
(REGULAR / NO CURB)
EXIST. LIGHT POLE (UIP)
EXIST. SIGN (UIP)
550 L.F. PCCP JOINT/CRACK SEALING
BRIDGE A09602
EXIST. SIGN (UIP)
I-270 RAMP
EXIST. SIGN (UIP)
EXIST. GUARDRAIL (R)
BEGIN PROJECT
STA 1410+10.38
BEGIN EPOXY URETHANE POLYMER WEARING SURFACE
REPAIR/REPLACE TRAFFIC PYLONS ON EXISTING MEDIAN
EXIST. MEDIAN (UIP)
℄ ROUTE 100 EB
S67°44'22"W
EXIST. SIGN (UIP)
S67°44'22"W
℄ ROUTE 100 STA. 1408+84 TO STA. 1409+59 RT
INSTALL 75' MGS GUARDRAIL
W/ 1 TYPE A CRASHWORTHY END TERMINAL (MASH)
& 1 MGS BRIDGE APPROACH TRANSITION SECTION
(REGULAR / NO CURB)
EXIST. GUARDRAIL (R)
EXIST. GUARDRAIL (UIP)
TREES (DND)
EXIST. GUY WIRES (UIP)
CLEAR OUT EXISTING DITCH AT BASE OF CONCRETE SLOPE
EXIST. PP (UIP)
EXIST. ELEC. MH (UIP)
MODOT ITS
EXIST. GUARDRAIL (UIP)
EXIST. 12IN PIPE (UIP)
EXIST. FES (UIP)
MODOT ITS
EXIST. INLET (UIP)
EXIST. DITCH (UIP)
TREES (DND)
I-270
I-270

PLAN SHEET LEGEND
- EXISTING RIGHT-OF-WAY (EXIST. ROW)
- PERMANENT EASEMENT (P.H.E.)
- TEMPORARY CONSTRUCTION EASEMENT (T.C.E.)
- CONSTRUCTION LIMITS (SL)
- PROPOSED EPOXY URETHANE POLYMER OVERLAY
- SIDEWALK REMOVAL
- PROPOSED SIDEWALK
- PROPOSED MILL/OVERLAY

SHEET 3 OF 54

PLAN SHEET

MO ROUTE 100
MANCHESTER ROAD

STATE OF MISSOURI
BRIAN D. KIERATH JR.
NUMBER PE-2023008624
PROFESSIONAL ENGINEER
04/01/2025 10:40:31 AM
Brian D. Kierath Jr. - Civil
MO PE-2023008624

DATE PREPARED
4/1/2025

ROUTE	STATE
100	MO
DISTRICT	SHEET NO.
SL	7

COUNTY
ST. LOUIS

JOB NO.
J6P3274

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DATE	DESCRIPTION

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

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
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PRO. ENGINEER 000133
ARCHITECT 000212
PRO. LAND SURVEYOR 000059

BRIAN KIERATH
PROFESSIONAL ENGINEER
PE-2023008624

SCALE
0 20 40 60

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MATCHLINE STA. 1413+00.00

MATCHLINE STA. 1418+00.00

I-270 RAMP

1415

77
220230621
1050 OLD DES PERES RD
N/F
DES PERES SQUARE PROFESSIONAL CONDOMINIUM
DB 23914, PG 1177
607 SF T.C.E.

EXIST. PULL BOX (UIP)

EXIST. R/W

EXIST. LIGHT POLE (UIP)

TREES (DND)

EXIST. SIDEWALK (R)

EXIST PULL BOX (UIP)

T.C.E. (TYP.)

EXIST. SIGN (UIP)

EXIST CURB (UIP)

INSTALL 5 CU. YD. FLOWABLE BACKFILL AT SW CORNER OF BRIDGE AS DIRECTED BY THE ENGINEER

TREES (DND)

550 L.F. PCCP JOINT/CRACK SEALING

EXIST. GAS VALVE AND GAS MARKER (UIP)

NEW TYPE S CURB

EXIST. PULL BOX (UIP)

EXIST. GUARDRAIL (R)

EXIST. SIGN (UIP)

EXIST. PULL BOX (UIP)

℄ ROUTE 100 STA. 1413+59 TO STA. 1414+09 LT
INSTALL 50' MGS GUARDRAIL
W/ 1 TYPE A CRASHWORTHY END TERMINAL
& 1 MGS BRIDGE APPROACH TRANSITION SECTION
(REGULAR / NO CURB)

STA 1413+08.20
END EPOXY
URETHANE POLYMER
WEARING SURFACE

℄ ROUTE 100 EB

EXIST. MEDIAN (UIP)

EXIST. SIGN (UIP)

EXIST. SIGN (UIP)

EXIST. LIGHT POLE (UIP)

EXIST. CURB (UIP)

S67°44'22"W

EXIST. SIGN (UIP)

EXIST. TELE. HM (UIP)

EXIST. SIGN (UIP)

EXIST. BARRIER (UIP)

EXIST. PP (UIP)

EXIST. SIGN (UIP)

EXIST. R/W

EXIST. PULL BOX (UIP)

EXIST. PULL BOX (UIP)

EXIST. SIGN (UIP)

℄ ROUTE 100 STA. 1413+29 TO STA. 1413+54 RT
INSTALL 25' MGS GUARDRAIL
W/ 1 MGS END ANCHOR
& 1 MGS BRIDGE APPROACH TRANSITION SECTION
(REGULAR / NO CURB)

EXIST.
GUARDRAIL (R)

MODOT ITS

1-270 RAMP

EXIST. CURB (UIP)

EXIST. LIGHT POLE (UIP)

EXIST.
TREE (DND)

EXIST. GUARDRAIL (UIP)

220510516
12800 MANCHESTER RD
N/F
MH EXCHANGE V LLC
DB 22324 PG 1439
NO ACQUISITION

PLAN SHEET LEGEND

- EXISTING RIGHT-OF-WAY (EXIST. ROW)
- PERMANENT EASEMENT (P.H.E.)
- TEMPORARY CONSTRUCTION EASEMENT (T.C.E.)
- CONSTRUCTION LIMITS (SL)
- PROPOSED EPOXY URETHANE POLYMER OVERLAY
- SIDEWALK REMOVAL
- PROPOSED SIDEWALK
- PROPOSED MILL/OVERLAY

SHEET 4 OF 54

PLAN SHEET

MO ROUTE 100
MANCHESTER ROAD

STATE OF MISSOURI
BRIAN D. KIERATH JR.
NUMBER PE-2023008624
PROFESSIONAL ENGINEER
04/01/2025 10:40:31 AM
Brian D. Kierath Jr. - Civil
MO PE-2023008624

DATE PREPARED
4/1/2025

ROUTE	STATE
100	MO
DISTRICT	SHEET NO.
SL	8

COUNTY
ST. LOUIS

JOB NO.
J6P3274

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)

GBA
16305 SWINGLEY RIDGE RD
ST. 300
CHESTERFIELD, MO 63017
314.231.0100
GBAteam.com

GEORGE BUTLER
ASSOCIATES, INC.
PRO. ENGINEER 000133
ARCHITECT 000212
PRO. LAND SURVEYOR 000059

BRIAN KIERATH
PROFESSIONAL
ENGINEER
PE-2023008624

SCALE
0 20 40 60

77
220230621
1050 OLD DES PERES RD
N/F
DES PERES SQUARE
PROFESSIONAL CONDOMINIUM
DB 23914, PG 1177
SEE SHEET 8

78
220510314
12796 MANCHESTER RD
N/F
ROSALITAS CANTINA DES
PERES HOLDINGS LLC
DB 21796 PG 2972
1,164 SF T.C.E.

76
220510305
12804 MANCHESTER RD
N/F
MANCHE REAL ESTATE PARTNERSHIP II, LP
DB 13983 PG 1140
253 SF T.C.E.

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MATCHLINE STA. 1418+00.00

MATCHLINE STA. 1423+00.00

EXIST. R/W

OLD DES PERES RD

EXIST. 12IN PIPE (UIP)
EXIST. PULL BOX (UIP)
EXIST. UNK WATER UTILITY (UIP)
EXIST. PULL BOX (UIP)
+16.85
94.84' LT.
+13.60
97.63' LT.

EXIST. CURB (UIP)
EXIST. SIGN (UIP)
EXIST. RETAINING WALL (UIP)
EXIST. HANDRAIL (UIP)
TREE (DND)
T.C.E. (TYP.)

DRWY
STA. 1418+72.00 LT
NO IMPROVEMENTS

NEW TYPE S CURB
EXIST. INLET (UIP)
EXIST. SIGN (UIP)
5' SIDEWALK (TYP.)
EXIST. SIDEWALK (R)
TREE (DND)
+36.95
62.50' LT.
SR PERP RAMP
EXIST. PULL BOX (UIP)
SR PERP RAMP
+20.36
79.34' LT.

EXIST. MEDIAN (UIP)
+03.29
60.89' LT.
+19.00
75.22' LT.
T2 PAR RAMP
+26.67
82.47' LT.
+26.26
75.41' LT.
+29.74
78.72' LT.
EXIST. PULL BOX (UIP)
EXIST. LIGHT POLE (UIP)
5' SIDEWALK
TREE (DND)
+98.70
56.22' LT.
+11.34
55.46' LT.

EXIST. LIGHT POLE (UIP)
DRWY
STA. 1422+33.00 LT
NO IMPROVEMENTS

NEW TYPE S CURB
SR PERP RAMP
EXIST. CURB (UIP)
+54.54
53.95' LT.
+97.34
52.03' LT.
R 8.5'

R=106'
1420
R 12'

+08.36
85.10' LT.
+16.53
76.12' LT.
EXIST. SIGN (UIP)
EXIST. PULL BOX (UIP)
+97.93
62.53' LT.
+99.55
57.53' LT.
+36.94
57.50' LT.
EXIST. SIGN (UIP)
NEW TYPE S CURB
EXIST. GAS VALVE (UIP)
85°58'30"

+31.55
59.61' LT.
+39.05
58.80' LT.
+36.70
53.95' LT.
EXIST. SIGN (UIP)
EXIST. SIDEWALK (R)
EXIST. CURB (UIP)
PC STA 1420+68.71
EXIST. SIGN (UIP)
+05.81
56.60' LT.
+98.19
49.87' LT.
+29.25
62.82' LT.
+36.52
57.41' LT.
EXIST. SIGN (RELOC.)
SR PERP RAMP
+07.90
50.64' LT.
+55.41
48.89' LT.
EXIST. SIGN (UIP)
90°

℄ ROUTE 100 EB
S67°44'22"W
81°39'23"

EXIST. WATER VALVE (UIP)
EXIST. CURB (UIP)
EXIST. SIGN (UIP)
EXIST. WATER VALVE (UIP)
EXIST. ELEC. RISER (UIP)
MODOT ITS
EXIST. SIGN (UIP)
DRWY
STA. 1419+98.00 RT
NO IMPROVEMENTS
EXIST. SIGN (UIP)
EXIST. SIGN (UIP)
EXIST. WATER VALVE (UIP)
EXIST. SIGN (UIP)
EXIST. TELE. MH (UIP)
EXIST. R/W

220510543
12803 MANCHESTER RD
N/F
MH EXCHANGE V LLC
DB 22324 PG 1430
NO ACQUISITION

220510516
12800 MANCHESTER RD
N/F
MH EXCHANGE V LLC
DB 22324 PG 1439
NO ACQUISITION

220510482
12701 MANCHESTER RD A
N/F
MH EXCHANGE V LLC
DB 22324 PG 1439
NO ACQUISITION

220510507
12805 MANCHESTER RD
N/F
MH EXCHANGE V LLC
DB 22324 PG 1430
NO ACQUISITION

PROP_100	
PI	1424+55.33
PC	1420+68.71
PT	1428+06.55
△	42°16'30.3" (RT)
D	5°43'46.4"
L	737.84' (ARC)
T	386.62'
R	1,000.00'

PLAN SHEET LEGEND
- EXISTING RIGHT-OF-WAY (EXIST. ROW)
- PERMANENT EASEMENT (P.H.E.)
- TEMPORARY CONSTRUCTION EASEMENT (T.C.E.)
- CONSTRUCTION LIMITS (SL)
- PROPOSED EPOXY URETHANE POLYMER OVERLAY
- SIDEWALK REMOVAL
- PROPOSED SIDEWALK
- PROPOSED MILL/OVERLAY

SHEET 5 OF 54

PLAN SHEET

MO ROUTE 100
MANCHESTER ROAD

STATE OF MISSOURI
BRIAN D. KIERATH JR.
NUMBER PE-2023008624
PROFESSIONAL ENGINEER
04/01/2025 10:40:32 AM
Brian D. Kierath Jr. - Civil
MO PE-2023008624

DATE PREPARED
4/1/2025

ROUTE	STATE
100	MO
DISTRICT	SHEET NO.
SL	9

COUNTY
ST. LOUIS

JOB NO.
J6P3274

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)

GBA
16305 SWINGLEY RIDGE RD
ST. 300
CHESTERFIELD, MO 63017
314.231.0100
GBAteam.com

GEORGE BUTLER ASSOCIATES, INC.
PRO. ENGINEER 000133
ARCHITECT 000212
PRO. LAND SURVEYOR 000059

BRIAN KIERATH
PROFESSIONAL ENGINEER
PE-2023008624

SCALE
0 20 40 60

76
220510305
12804 MANCHESTER RD
N/F
MANCHE REAL ESTATE
PARTNERSHIP II, LP
DB 13983 PG 1140
SEE SHEET 9

220230575
1050 DES PERES RD
N/F
CITY OF DES PERES
DB 13707 PG 573
NO ACQUISITION

EXIST. R/W
DES PERES RD

PROP_100	
PI	1424+55.33
PC	1420+68.71
PT	1428+06.55
△	42°16'30.3" (RT)
D	5°43'46.4"
L	737.84' (ARC)
T	386.62'
R	1,000.00'

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BRIAN D. KIERATH JR.
NUMBER PE-2023008624
PROFESSIONAL ENGINEER
04/01/2025 10:40:32 AM
Brian D. Kierath Jr. - Civil
MO PE-2023008624

DATE PREPARED
4/1/2025

ROUTE	STATE
100	MO
DISTRICT	SHEET NO.
SL	10

COUNTY
ST. LOUIS
JOB NO.
J6P3274
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)

GBA
16305 SWINGLEY RIDGE RD
ST. 300
CHESTERFIELD, MO 63017
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GBAteam.com

GEORGE BUTLER
ASSOCIATES, INC.
PRO. ENGINEER 000133
ARCHITECT 000212
PRO. LAND SURVEYOR 000059

BRIAN KIERATH
PROFESSIONAL
ENGINEER
PE-2023008624

MATCHLINE STA. 1423+00.00

MATCHLINE STA. 1428+00.00

℄ ROUTE 100 EB

DRWY
STA. 1423+99.00 LT
NO IMPROVEMENTS

+40.23
50.89' LT.

+36.54
45.96' LT.

R 16'

124°19'43"

EXIST. LANDSCAPING (UIP)
EXIST. CURB (UIP)
NEW TYPE S CURB
SR PERP RAMP
EXIST. SIGN (UIP)
EXIST. SIGN (RELOC.)
5' SIDEWALK (TYP)
EXIST. CURB (UIP)

EXIST. INLET (UIP)
EXIST. 12IN PIPE (UIP)
EXIST. PULL BOX (UIP)
EXIST. INLET (UIP)
EXIST. SIGN (UIP)
EXIST. LANDSCAPING (UIP)
MODOT ITS
EXIST. SIGN (UIP)
TREES (DND)
EXIST. LIGHT POLES (UIP)
EXIST. 12IN PIPE (UIP)
EXIST. INLET (UIP)
EXIST. 12IN PIPE (UIP)
EXIST. PULL BOX (UIP)
EXIST. 12IN PIPE (UIP)
EXIST. GUARDRAIL (R)
EXIST. INLET (UIP)

1425

BRIDGE
A50161

STA 1425+62.55
BEGIN EPOXY
URETHANE POLYMER
WEARING SURFACE

8400 LBS SLAB JACKING

EXIST. WATER VALVE (UIP)

550 L.F. PCCP
JOINT/CRACK SEALING

EXIST. PP (UIP)
TREES (DND)
EXIST. SIGN (UIP)
EXIST. CURB (UIP)
EXIST. PP (UIP)
EXIST. INLET (UIP)
EXIST. 12IN PIPE (UIP)
EXIST. 18IN PIPE (UIP)
EXIST. SIGN (UIP)
EXIST. GUARDRAIL (R)

℄ ROUTE 100 STA. 1426+75 TO STA. 1427+15.5 LT
INSTALL 12.5' MGS GUARDRAIL
W/ 1 TYPE A CRASHWORTHY END TERMINAL (MASH)
&1 MGS BRIDGE APPROACH TRANSITION SECTION
(REGULAR / NO CURB)

EXIST. GUY WIRES (UIP)
EXIST. POLE (UIP)
EXIST. LIGHT POLE (UIP)
EXIST. GUARDRAIL (R)
EXIST. RAISED SHLDR (UIP)

STA 1426+84.33
END EPOXY URETHANE POLYMER
WEARING SURFACE

EXIST. WATER VALVE (UIP)
EXIST. HYDRANT (UIP)
EXIST. GUARDRAIL (UIP)
EXIST. GUARDRAIL (R)
EXIST. PP (UIP)

℄ ROUTE 100 STA. 1426+91 TO STA. 1427+28.5 RT
INSTALL 1 TYPE A END TERMINAL
W/ 1 MGS BRIDGE APPROACH
TRANSITION SECTION
(REGULAR / NO CURB)

220510406
12833 MANCHESTER RD
N/F
STEINER LEROY M
DB 20973, PG 1066
NO ACQUISITION

220510406
12829 MANCHESTER RD
N/F
CREST DEVELOPMENT CO
DB 06872, PG 1415
NO ACQUISITION

MODOT ITS

220510507
12805 MANCHESTER RD
N/F
MH EXCHANGE V LLC
DB 22324 PG 1430
NO ACQUISITION

220510394
1119 SATEEN DR A
N/F
CREST DEVELOPMENT CO &
WAYCLIFFE DEVELOPMENT CORP
DB 6872 PG 1415
NO ACQUISITION

PLAN SHEET LEGEND
- EXISTING RIGHT-OF-WAY (EXIST. ROW)
- PERMANENT EASEMENT (P.H.E.)
- TEMPORARY CONSTRUCTION EASEMENT (T.C.E.)
- CONSTRUCTION LIMITS (SL)
- PROPOSED EPOXY URETHANE POLYMER OVERLAY
- SIDEWALK REMOVAL
- PROPOSED SIDEWALK
- PROPOSED MILL/OVERLAY

SHEET 6 OF 54

PLAN SHEET

MO ROUTE 100
MANCHESTER ROAD

SCALE
0 20 40 60

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STATE OF MISSOURI
BRIAN D. KIERATH JR.
NUMBER PE-2023008624
PROFESSIONAL ENGINEER
04/01/2025 10:40:33 AM
Brian D. Kierath Jr. - Civil
MO PE-2023008624

DATE PREPARED 4/1/2025
ROUTE 100 | STATE MO
DISTRICT SL | SHEET NO. 11
COUNTY ST. LOUIS
JOB NO. J6P3274
CONTRACT ID.
PROJECT NO.
BRIDGE NO.

DESCRIPTION | DATE

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

MATCHLINE STA. 1428+00.00

PT STA 1428+06.55

℄ ROUTE 100 EB

STA 1429+65.65
BEGIN MILL/OVERLAY

ROUTE 100 RAMP

ROUTE 100 RAMP

EXIST. R/W

TREES (DND)

EXIST. CURB (UIP)

EXIST. SIDEWALK (UIP)

EXIST. 12IN PIPE (UIP)

EXIST. INLET (UIP)

EXIST. PULLBOX (UIP)

TREE (DND)

EXIST. PULLBOX (UIP)

EXIST. SIGN (UIP)

EXIST. SIGN (UIP)

EXIST. GAS VALVE (UIP)

MILL/OVERLAY LIMITS

1430

220420637
12850 MANCHESTER RD
N/F
CAPE COD, LLC
DB 17703, PG 3015
NO ACQUISITION

MODOT ITS

EXIST. SIGN (UIP)

EXIST. PULLBOX (UIP)

EXIST. STORM MH (UIP)

EXIST. 15IN PIPE (UIP)

EXIST. SIGN (UIP)

EXIST. 15IN PIPE (UIP)

EXIST. LIGHT POLE (UIP)

EXIST. LIGHT POLE (UIP)

TREES (DND)

EXIST. R/W

EXIST. SIDEWALK (R)

EXIST. SIGN (UIP)

NEW TYPE S CURB

EXIST. GAS VALVE (UIP)

DRWY
STA. 1431+61.00 LT
NO IMPROVEMENTS

EXIST. STORM MH (UIP)

75

220420664
12878 MANCHESTER RD
N/F
BAH INVESTMENTS LLC
DB 19800, PG 190
84 SF P.H.E.
187 SF T.C.E.

EXIST. SIGN (UIP)
+64.83
47.00' LT.

LR PERP RAMP

6' SIDEWALK (TYP)

EXIST. SIGN (RELOC.)

EXIST. RETAINING WALL (UIP)

EXIST. HANDRAIL (UIP)

EXIST. LIGHT POLE (UIP)

EXIST. SIGN (UIP)

TREES (DND)

TREES (DND)

R 25

R 19'

EXIST. CURB (UIP)

EXIST. SIGN (RELOC.)

EXIST. GAS VALVE (UIP)

110°51'36"

90°

MILL/OVERLAY

N69°59'08"W

+02.55
33.19' RT.

EXIST. PP (UIP)

EXIST. GUY WIRE (UIP)

NEW TYPE S CURB

R 126.59'

EXIST. CURB (UIP)

EXIST. WATER VALVE (UIP)

EXIST. R/W

EXIST. SIGN (UIP)

TREES (DND)

T.C.E. (TYP)

TREES (DND)

EXIST. SIDEWALK (R)

EVERSTREAM HH (UIP)

EXIST. PP (UIP)

EXIST. PP (UIP)

EXIST. GUY WIRE (UIP)

EXIST. TELE. MH (UIP)

EXIST. TELE. MH (UIP)

EXIST. INLET (UIP)

TREES (DND)

EXIST. SIGN (UIP)

TREE (DND)

DRWY
STA. 1431+76.00 RT
NO IMPROVEMENTS

EXIST. SIGN (UIP)

SR PERP RAMP

TREES (DND)

5' SIDEWALK (TYP)

+02.54
38.19' RT.

220510406
12833 MANCHESTER RD
N/F
STEINER LEROY M
DB 20973, PG 1066
NO ACQUISITION

74

220420691
1011 DES PERES RD
N/F
FRANKLIN MANCHESTER RD, LLC
DB 24300, PG 39823600
3,600 SF T.C.E.

MATCHLINE STA. 1433+00.00

PLAN SHEET LEGEND

- EXISTING RIGHT-OF-WAY (EXIST. ROW)
- PERMANENT EASEMENT (P.H.E.)
- TEMPORARY CONSTRUCTION EASEMENT (T.C.E.)
- CONSTRUCTION LIMITS (SL)
- PROPOSED EPOXY URETHANE POLYMER OVERLAY
- SIDEWALK REMOVAL
- PROPOSED SIDEWALK
- PROPOSED MILL/OVERLAY

SHEET 7 OF 54

PLAN SHEET

MO ROUTE 100
MANCHESTER ROAD

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

GBA
16305 SWINGLEY RIDGE RD
ST. 300
CHESTERFIELD, MO 63017
314.231.0100
GBAteam.com

GEORGE BUTLER ASSOCIATES, INC.
PRO. ENGINEER 000133
ARCHITECT 000212
PRO. LAND SURVEYOR 000059

BRIAN KIERATH
PROFESSIONAL ENGINEER
PE-2023008624

24MSD-00037 ; BASEMAPS 22Q1, 22Q4, 22P2, 22P3, 22P4, 22Q3, 23Q1, 23Q2

c:\bms\gba-pw-01\brian kierath\dms05298\011_PL_07_J6P3274_I20.dgn 9:11:42 AM 4/1/2025

SCALE
0 20 40 60

PROP_100	
PI	1436+11.62
PC	1433+53.39
PT	1438+67.87
△	12°16'55.8" (LT)
D	2°23'14.3"
L	514.47' (ARC)
T	258.23'
R	2,400.00'

DISCLAIMER
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STATE OF MISSOURI
BRIAN D. KIERATH JR.
NUMBER PE-2023008624
PROFESSIONAL ENGINEER
04/01/2025 10:40:33 AM
Brian D. Kierath Jr. - Civil
MO PE-2023008624

DATE PREPARED 4/1/2025
ROUTE 100 | STATE MO
DISTRICT SL | SHEET NO. 12
COUNTY ST. LOUIS
JOB NO. J6P3274
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)

GBA
16305 SWINGLEY RIDGE RD
ST. 300
CHESTERFIELD, MO 63017
314.231.0100
GBAteam.com

GEORGE BUTLER ASSOCIATES, INC.
PRO. ENGINEER 000133
ARCHITECT 000212
PRO. LAND SURVEYOR 000059

BRIAN KIERATH
PROFESSIONAL ENGINEER
PE-2023008624

MATCHLINE STA. 1433+00.00

MATCHLINE STA. 1438+00.00

SARALA RD

EXIST. R/W

EXIST. R/W

JONCLIF LN

75
220420664
12878 MANCHESTER RD
N/F
BAH INVESTMENTS LLC
DB 19800, PG 190
SEE SHEET 11

71
220420756
12990 MANCHESTER RD
N/F
DES PERES MEDICAL OFFICE BUILDING LLC
DB 16990, PG 1860
1.658 SF T.C.E.

74
220420691
1011 DES PERES RD
N/F
FRANKLIN MANCHESTER RD, LLC
DB 24300, PG 3982
SEE SHEET 11

73
220420701
12969 MANCHESTER RD
N/F
WHITE CO MANCHESTER, 1 LLC
DB 22360, PG 2206
1.714 SF T.C.E.

72
220420747
13001 MANCHESTER RD
N/F
RRG 28, LLC
DB 21676, PG 133
1.353 SF T.C.E.

DRWY
STA. 1436+69.00 LT
NO IMPROVEMENTS

DRWY
STA. 1437+89.00 LT
27' WIDE PAVED APPROACH (8")
GRADE = 1.0% (5'ADA PATH) / 1.0% AT ℄

DRWY
STA. 1437+85.00 RT
NO IMPROVEMENTS

DRWY
STA. 1437+06.00 RT
NO IMPROVEMENTS

DRWY
STA. 1437+54.00 LT
32' WIDE PAVED APPROACH (8")
GRADE = 1.5% (5'ADA PATH) / 4.00% AT ℄

PC STA 1433+53.39

℄ ROUTE 100 EB

MILL/OVERLAY

MODOT ITS

N69°59'08"W

PLAN SHEET LEGEND
- EXISTING RIGHT-OF-WAY (EXIST. ROW)
- PERMANENT EASEMENT (P.H.E.)
- TEMPORARY CONSTRUCTION EASEMENT (T.C.E.)
- CONSTRUCTION LIMITS (SL)
- PROPOSED EPOXY URETHANE POLYMER OVERLAY
- SIDEWALK REMOVAL
- PROPOSED SIDEWALK
- PROPOSED MILL/OVERLAY

PLAN SHEET

MO ROUTE 100
MANCHESTER ROAD

SHEET 8 OF 54

24MSD-00037 ; BASEMAPS 2201, 2204, 22P2, 22P3, 22P4, 22Q3, 23Q1, 23Q2

c:\bms\gba-pw-01\brian kierath\dms05298\012_PL_08_J6P3274_I20.dgn 9:11:59 AM 4/1/2025

SCALE
0 20 40 60

DISCLAIMER
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70
220420282
13000 MANCHESTER RD
N/F
N/F LEGACY ENTERPRISES
DB 22863, PG 481
528 SF T.C.E.

69
220420646
13030 MANCHESTER RD
N/F
HONG'S REAL ESTATES HOLDING LLC
DB 21868, PG 3236
749 SF P.H.E.
582 SF T.C.E.

F
220420194
13018 MANCHESTER RD
N/F
KHOURI SUHAIL & MAHA K H/W
DB 18768, PG 1695
NO ACQUISITION

E
220420224
13016 MANCHESTER RD
N/F
KHOURI REVOCABLE TRUST
DB 20127, PG 1109
NO ACQUISITION

D
220420242
13014 MANCHESTER RD
N/F
KHOURI REVOCABLE TRUST
DB 20127, PG 1109
NO ACQUISITION

C
220420293
13012MANCHESTER RD
N/F
KHOURI SUHAIL A & MAHA K H/W
DB 18768, PG 1695
NO ACQUISITION

B
220420233
13010 MANCHESTER R
N/F
KHOURI REVOCABLE TRUSTD
DB 20127, PG 1109
NO ACQUISITION

A
220420271
13008 MANCHESTER RD
N/F
KHOURI REVOCABLE TRUST
DB 20127, PG 1109
NO ACQUISITION

68
VOID
220410591
13090 MANCHESTER RD
N/F
LARRY & ALEKA KARAGIANNIS INVESTMENT LLC
DB 21783, PG 245
NO ACQUISITION

PROP_100	
PI	1443+58.33
PC	1439+30.31
PT	1447+74.79
△	23°2'25.6" (LT)
D	2°43'42.1"
L	844.48' (ARC)
T	428.02'
R	2,100.00'

MATCHLINE STA. 1438+00.00

MATCHLINE STA. 1443+00.00

1440

LR PERP RAMP
EXIST. SIGN (RELOC.)
LR PERP RAMP
6' SIDEWALK
T.C.E. (TYP.)
EXIST. WATER VALVE (ATG)
EXIST. 15IN PIPE (UIP)
EXIST. 12IN PIPE (UIP)
EXIST. INLET (UIP)
EXIST. INLET (UIP)
EXIST. SIGN (RELOC.)
EXIST. CURB (UIP)
6' SIDEWALK
SR PERP RAMP
EXIST. INLET (UIP)
EXIST. INLET (UIP)
EXIST. SIGN (UIP)
EXIST. 6 WATER VALVES (UIP)
EXIST. INLET (UIP)
EXIST. 15IN PIPE (UIP)
EXIST. GAS VALVE (UIP)
SR PERP RAMP
EXIST. WATER VALVE (ATG)
EXIST. WATER METER (UIP)
EXIST. SIGN (RELOC.)
EXIST. UNK WATER UTILITY (UIP)
EXIST. LIGHT POLE (UIP)
NEW 8'X 7' BUS PAD
TREES/BUSHES (DND)
BUSH (DND)
EXIST. PULL BOX (UIP)
EXIST. SIGN AND LANDSCAPING (UIP)
EXIST. SIDEWALK (UIP)
5' SIDEWALK (TYP)
EXIST. R/W
MODOT ITS
EXIST. GAS VALVE (UIP)
EXIST. SPIRE MARKER (RELOC.)
EXIST. SIGN (RELOC.)
EXIST. INLET (UIP)
SR PERP RAMP
EXIST. 15IN PIPE (UIP)
STA. 14+45.96 WESTMARK DR,=
STA. 1441+46.18 ROUTE 100
MILL/OVERLAY

DRWY
STA. 1438+74.00 LT
29' WIDE PAVED APPROACH (8")
GRADE = 1.5% (6'ADA PATH) / 4.0% AT ℄

DRWY
STA. 1439+40.00 LT
NO IMPROVEMENTS

DRWY
STA. 1440+09.00 LT
NO IMPROVEMENTS

DRWY
STA. 1441+41.00 LT
NO IMPROVEMENTS

+59.12
34.64' LT.

+52.00
34.72' LT.

PT STA 1438+67.87

PC STA 1439+30.31

R 10'

R 9½'

R 13'

90°

90°03'16"

89°

104°40'53"

N82°16'04"W

EXIST. 12IN PIPE (UIP)
EXIST. INLET (UIP)
EXIST. 12IN PIPE (UIP)
EXIST. INLET (UIP)
EXIST. SIGN (UIP)
+17.52
33.00' RT.
SR PERP RAMP
TREES (DND)
TREES (DND)
T.C.E. (TYP)
+20.68
38.00' RT.
EXIST. SIGN (UIP)
EXIST. PP (UIP)
EXIST. EVERSTREAM HH (ATG)
EXIST. WATER VALVE (UIP)
EXIST. GAS VALVE (ATG)
SR PERP RAMP
EXIST. CURB (UIP)
SR PERP RAMP
EXIST. LIGHT POLE (UIP)
EXIST. HYDRANT (UIP)
EXIST. RISER (UIP)
EXIST. PP (UIP)
EXIST. SIGN (RELOC.)
EXIST. SIGN (UIP)
EXIST. WATER VALVE (ATG)
EXIST. WATER METER (UIP)
EXIST. SIGN (RELOC.)
SR PERP RAMP
+20.76
40.00' RT.
EXIST. LIGHT POLE (UIP)
EXIST. SIDEWALK (UIP)
EXIST. R/W
+22.56
35.00' RT.
EXIST. SIGN (UIP)
EXIST. INLET (UIP)
EXIST. LIGHT POLE (UIP)
EXIST. 12IN PIPE (UIP)
SR PERP RAMP
EXIST. MODOT SIGNAL PULL BOX (ATG)
+77.44
36.00' RT.
EXIST. SIGN (RELOC.)
EXIST. PULL BOX (UIP)
EXIST. PP (UIP)
+77.44
41.00' RT.
EXIST. SIGN (UIP)
EXIST. SIGN (UIP)
5' SIDEWALK (TYP)
TREES (DND)
EXIST. GUY WIRES (UIP)
EXIST. R/W

℄ ROUTE 100 EB

DRWY
STA. 1440+01.00 LT
NO IMPROVEMENTS

DRWY
STA. 1439+47.00 RT
32' WIDE PAVED APPROACH (8")
GRADE = 1.5% (5'ADA PATH) / 4.00% AT ℄

WESTMARK DR

TREES (DND)

67
VOID
220420408
13009 MANCHESTER RD
N/F
MEIER MANCHESTER LLC
DB 19647, PG 4695
NO ACQUISITION

72
220420747
13001 MANCHESTER RD
N/F
RRG 28, LLC
DB 21676, PG 133
SEE SHEET 12

220420765
13017 MANCHESTER RD
N/F
DES PERES CITY OF
DB 23807, PG 74
NO ACQUISITION

66
220410672, 220410562
13075-13101 MANCHESTER RD
N/F
13075 MANCHESTER RD LLC
DB 23090, PG 3497
1,070 SF T.C.E.

PLAN SHEET LEGEND
- EXISTING RIGHT-OF-WAY (EXIST. ROW)
- PERMANENT EASEMENT (P.H.E.)
- TEMPORARY CONSTRUCTION EASEMENT (T.C.E.)
- CONSTRUCTION LIMITS (SL)
- PROPOSED EPOXY URETHANE POLYMER OVERLAY
- SIDEWALK REMOVAL
- PROPOSED SIDEWALK
- PROPOSED MILL/OVERLAY

SHEET 9 OF 54

PLAN SHEET

MO ROUTE 100
MANCHESTER ROAD

STATE OF MISSOURI
BRIAN D. KIERATH JR.
NUMBER PE-2023008624
PROFESSIONAL ENGINEER
04/01/2025 10:40:33 AM
Brian D. Kierath Jr. - Civil
MO PE-2023008624

DATE PREPARED 4/1/2025
ROUTE 100 | STATE MO
DISTRICT SL | SHEET NO. 13
COUNTY ST. LOUIS
JOB NO. J6P3274
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)

GBA
16305 SWINGLEY RIDGE RD
ST. 300
CHESTERFIELD, MO 63017
314.231.0100
GBAteam.com

GEORGE BUTLER ASSOCIATES, INC.
PRO. ENGINEER 000133
ARCHITECT 000212
PRO. LAND SURVEYOR 000059

BRIAN KIERATH
PROFESSIONAL ENGINEER
PE-2023008624

SCALE
0 20 40 60

PROP_100	
PI	1443+58.33
PC	1439+30.31
PT	1447+74.79
△	23°2'25.6" (LT)
D	2°43'42.1"
L	844.48' (ARC)
T	428.02'
R	2,100.00'

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68
VOID
220410591
13090 MANCHESTER RD
N/F
LARRY & ALEKA KARAGIANNIS INVESTMENT LLC
DB 21783, PG 245
NO ACQUISITION

64
220410324
13100 MANCHESTER RD
N/F
OMVESCO LLC
DB 22122, PG 1983
1516 SF T.C.E.

MATCHLINE STA. 1443+00.00

MATCHLINE STA. 1448+00.00

EXIST. R/W

EXIST. 15IN PIPE (UIP)
EXIST. WALL (UIP)
5' SIDEWALK (TYP)
EXIST. CURB (UIP)
MODOT ITS
EXIST. MODOT SIGNAL PULL BOX (ATG)
SAWCUT AT STA. 1445+62.00
SIDEWALK FROM STA. 1445+62.00 TO STA. 1444+88.78 LT. TO REMAIN IN PLACE
EXIST. INLET (UIP)
EXIST. GAS VALVE (UIP)
SR PERP RAMP
EXIST. SIGN (RELOC.)
+88.01 40.97' LT.
+74.98 40.98' LT.
+67.93 40.98' LT.
+22.07 48.12' LT.
+21.74 43.11' LT.
+67.49 35.98' LT.
+47.98 35.98' LT.
EXIST. 15IN PIPE (UIP)
℄ ROUTE 100 EB
MILL/OVERLAY
NEW TYPE S CURB
EXIST. TELE. MH (UIP)
EXIST. BARRIER (R)
EXIST. GAS VALVE (ATG)
EXIST. WATER VALVE (UIP)
EXIST. PP (UIP)
+92.35 36.00' RT.
+31.18 35.95' LT.
EXIST. R/W
EXIST. PP (UIP)
EXIST. GUY WIRES (UIP)
EXIST. CURB (R)
EXIST. PP (UIP)
EXIST. GUY WIRES (UIP)
EXIST. SHO-ME TECHNOLOGIES HH (UIP)
T.C.E. (TYP.)
TREE (DND)
EXIST. SIGN (UIP)
5' SIDEWALK (TYP)
TREE (DND)
TREES (DND)
EXIST. R/W
EXIST. 15IN PIPE (UIP)
EXIST. WALL (UIP)
5' SIDEWALK (TYP)
EXIST. CURB (UIP)
EXIST. SIGN (UIP)
EXIST. GAS VALVE (UIP)
NEW TYPE S CURB
EXIST. PP (UIP)
EXIST. SIGN (UIP)
+23.78 40.95' LT.
LR PERP RAMP
TREES (DND)
T.C.E. (TYP.)
EXIST. MODOT SIGNAL PULL BOX (ATG)
+65.89 40.81' LT.
EXIST. SIGN (UIP)
EXIST. UNK WATER UTILITY (UIP)
EXIST. PULL BOX (UIP)
EXIST. SIGN (UIP)
EXIST. INLET (UIP)
EXIST. 18IN PIPE (UIP)
SR PERP RAMP
+62.10 35.82' LT.
PT STA 1447+74.79
S74°41'30"W
EXIST. PP (UIP)
EXIST. GUY WIRES (UIP)
EXIST. AT&T-D HH (ATG)
EXIST. SIGN (UIP)
+80.79 34.49' RT.
+32.78 34.50' RT.
R 10'
R 9.5'
+94.05 41.00' RT.
+29.80 39.50' RT.
+83.39 39.48' RT.
EXIST. SIGN (RELOC.)
SR PERP RAMP
EXIST. HYDRANT (UIP)
SR PERP RAMP
EXIST. SIGN (UIP)
EXIST. GUY WIRES (UIP)
TREE (DND)
SR PERP RAMP

DRWY
STA. 1447+84.00 LT
NO IMPROVEMENTS

DRWY
STA. 1448+50.00 RT
NO IMPROVEMENTS

DRWY
STA. 1447+12.00 RT
36' WIDE PAVED APPROACH (8")
GRADE = 1.5% (5'ADA PATH) / 4.0% AT ℄

66
220410672, 220410562
13075-13101 MANCHESTER RD
N/F
13075 MANCHESTER RD LLC
DB 23090, PG 3497
SEE SHEET 13

65
220410562
13133 MANCHESTER RD
N/F
KA DES PERES LLC
DB 20846, PG 493
765 SF T.C.E.

PLAN SHEET LEGEND
- EXISTING RIGHT-OF-WAY (EXIST. ROW)
- PERMANENT EASEMENT (P.H.E.)
- TEMPORARY CONSTRUCTION EASEMENT (T.C.E.)
- CONSTRUCTION LIMITS (SL)
- PROPOSED EPOXY URETHANE POLYMER OVERLAY
- SIDEWALK REMOVAL
- PROPOSED SIDEWALK
- PROPOSED MILL/OVERLAY

SHEET 10 OF 54

PLAN SHEET

MO ROUTE 100
MANCHESTER ROAD

STATE OF MISSOURI
BRIAN D. KIERATH JR.
NUMBER PE-2023008624
PROFESSIONAL ENGINEER
04/01/2025 10:40:35 AM
Brian D. Kierath Jr. - Civil
MO PE-2023008624

DATE PREPARED 4/1/2025
ROUTE 100 | STATE MO
DISTRICT SL | SHEET NO. 14
COUNTY ST. LOUIS
JOB NO. J6P3274
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)

GBA
16305 SWINGLEY RIDGE RD
ST, 300
CHESTERFIELD, MO 63017
314.231.0100
GBAteam.com

GEORGE BUTLER ASSOCIATES, INC.
PRO. ENGINEER 000133
ARCHITECT 000212
PRO. LAND SURVEYOR 000059

BRIAN KIERATH
PROFESSIONAL ENGINEER
PE-2023008624

SCALE
0 20 40 60

PROP_100	
PI	1452+06.85
PC	1450+26.22
PT	1453+83.63
△	20°28'41.3" (LT)
D	5°43'46.4"
L	357.41' (ARC)
T	180.63'
R	1,000.00'

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64
220410324
13100 MANCHESTER RD
N/F
OMVESCO LLC
DB 22122, PG 1983
SEE SHEET 14

63
220410096
13200 MANCHESTER RD
N/F
13200 LLC
DB 21104, PG 2238
1,252 SF T.C.E.

59
220410681
13230 MANCHESTER RD
N/F
SOUTH COUNTY SENIOR CARE ASSOCIATES LLC
DB 17799, PG 3801
2,127 SF P.H.E.
527 SF T.C.E

65
220410562
13133 MANCHESTER RD
N/F
KA DES PERES LLC
DB 20846, PG 493
SEE SHEET 14

61
220410654
13205 MANCHESTER RD
N/F
13205 MANCHESTER LLC
DB 23718, PG 62
1,350 SF T.C.E.

62
220410636, 220410627
13231-13239 MANCHESTER RD
N/F
13239 MANCHESTER RD, LLC
DB 12419, PG 1564

MATCHLINE STA. 1448+00.00
MATCHLINE STA. 1453+00.00
℄ ROUTE 100 EB
PC STA 1450+26.22
1450

DRWY
STA. 1449+58.00 LT
29' WIDE PAVED APPROACH (8")
GRADE = 1.0% (6'ADA PATH) / 1.0% AT ℄

DRWY
STA. 1451+15.00 LT
24' WIDE PAVED APPROACH (8")
GRADE = -1.5% (5'ADA PATH) / 1.0% AT ℄

DRWY
STA. 1449+11.00 RT
NO IMPROVEMENTS

DRWY
STA. 1451+12.00 RT
37' WIDE PAVED APPROACH (8")
GRADE = 1.5% (5'ADA PATH) / 4.00% AT ℄

LR PERP RAMP
EXIST. SIGN (UIP)
6' SIDEWALK
EXIST. CURB (UIP)
EXIST. MAILBOX (RELOC.)
EXIST. PP (UIP)
EXIST. GUY WIRE (UIP)
EXIST. PP (UIP)
EXIST. SIGN (RELOC.)
LR PERP RAMP
6' SIDEWALK
EXIST. 18IN PIPE (UIP)
EXIST. GUY WIRE (UIP)
EXIST. AT&T-D HH (RELOC.)
EXIST. INLET (UIP)
EXIST. 18IN PIPE (UIP)
+72.66
40.00' LT.
EXIST. PP (UIP)
SR PERP RAMP
EXIST. WALL (UIP)
+74.85
35.00' LT.
EXIST. MAILBOX (UIP)
T.C.E. (TYP.)
+02.89
40.01' LT.
SR PERP RAMP
EXIST. SIGN (RELOC.)
EXIST. GAS VALVE (ATG)
EXIST. INLET (UIP)
+28.04
40.00' LT.
+00.64
35.01' LT.
EXIST. SIGN (RELOC.)
5' SIDEWALK
+28.03
35.00' LT.
EXIST. GAS VALVE (ATG)
+29.31
40.09' LT.
EXIST. PP (RELOC.)
EXIST. SIGN (UIP)
SR PERP RAMP
EXIST. GUY WIRE (RELOC.)
TREES (DND)
EXIST. SIDEWALK (UIP)
EXIST. 24IN PIPE (UIP)
EXIST. SIGN (UIP)
P.H.E. (TYP.)
MODOT ITS
EXIST. R/W
+58.04
41.23' LT.
EXIST. 24IN PIPE (UIP)
EXIST. PULL BOX (UIP)
EXIST. GAS VALVE (RELOC.)
EXIST. SIGN (RELOC.)
+31.49
35.09' LT.
MILL/OVERLAY
S74°41'30"W
+20.17
34.52' RT.
SR PERP RAMP
EXIST. SIGN (UIP)
EXIST. CURB (UIP)
+82.45
33.11' RT.
103°53'37"
88°19'16"
90°
+18.85
33.11' RT.
SR PERP RAMP
EXIST. SIGN (RELOC.)
EXIST. WATER VALVE (UIP)
EXIST. PP (UIP)
SR PERP RAMP
EXIST. AT&T-D MH (UIP)
+92.78
34.04' RT.
+26.82
33.86' RT.
NEW TYPE S CURB
EXIST. R/W
EXIST. SIGN (UIP)
+97.37
33.98' RT.
+07.10
35.23' RT.
TREE (DND)
EXIST. SIDEWALK (UIP)
EXIST. PP (UIP)
+07.28
39.25' RT.
+02.45
38.95' RT.
EXIST. GAS VALVE (ATG)
EXIST. PP (UIP)
EXIST. GUY WIRE (UIP)
EXIST. SIGN (RELOC.)
SR PERP RAMP
+28.32
38.84' RT.
EXIST. MEDIAN (UIP)
TREE (DND)
EXIST. SIGN (RELOC.)
SR PERP RAMP
+11.75
0.00' RT.
EXIST. SIGN (UIP)
EXIST. PP (UIP)
+86.04
37.98' RT.
+14.97
38.14' RT.
TREES (DND)
T.C.E. (TYP.)
EXIST. SIGN (UIP)
EXIST. PP (UIP)
EXIST. GUY WIRE (UIP)
EXIST. SHO-ME TECHNOLOGIES HH (UIP)
EXIST. GUY WIRE (UIP)
TREES (DND)
+94.23
39.11' RT.

PLAN SHEET LEGEND
- EXISTING RIGHT-OF-WAY (EXIST. ROW)
- PERMANENT EASEMENT (P.H.E.)
- TEMPORARY CONSTRUCTION EASEMENT (T.C.E.)
- CONSTRUCTION LIMITS (SL)
- PROPOSED EPOXY URETHANE POLYMER OVERLAY
- SIDEWALK REMOVAL
- PROPOSED SIDEWALK
- PROPOSED MILL/OVERLAY

SHEET 11 OF 54

PLAN SHEET

MO ROUTE 100
MANCHESTER ROAD

STATE OF MISSOURI
BRIAN D. KIERATH JR.
NUMBER PE-2023008624
PROFESSIONAL ENGINEER
04/01/2025 10:40:35 AM
Brian D. Kierath Jr. - Civil
MO PE-2023008624

DATE PREPARED 4/1/2025
ROUTE 100 | STATE MO
DISTRICT SL | SHEET NO. 15
COUNTY ST. LOUIS
JOB NO. J6P3274
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)

GBA
16305 SWINGLEY RIDGE RD
ST. 300
CHESTERFIELD, MO 63017
314.231.0100
GBAteam.com

GEORGE BUTLER ASSOCIATES, INC.
PRO. ENGINEER 000133
ARCHITECT 000212
PRO. LAND SURVEYOR 000059

BRIAN KIERATH
PROFESSIONAL ENGINEER
PE-2023008624

SCALE
0 20 40 60

DISCLAIMER
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59
220410681
13230 MANCHESTER RD
N/F
SOUTH COUNTY SENIOR CARE ASSOCIATES LLC
DB 17799, PG 3801
SEE SHEET 15

58
220130109
13268 MANCHESTER RD
N/F
SPALITTO AND VEHIGE LLC
DB 16276, PG 2422
403 SF T.C.E.

57
22P620140
13276 MANCHESTER RD
N/F
AVIACO PROPERTIES LLC
DB 17932, PG 1754
413 SF T.C.E.

56
22P620131
13302 MANCHESTER RD
N/F
MANCHESTER PROPERTIES MGMT LLC
DB 23743, PG 357
279 SF T.C.E.

MATCHLINE STA. 1453+00.00

MATCHLINE STA. 1458+00.00

DRWY
STA. 1454+91.00 LT
NO IMPROVEMENTS

DRWY
STA. 1455+58.00 LT
25' WIDE PAVED APPROACH (8")
GRADE = 1.5% (5'ADA PATH) / 4.00% AT ℄

DRWY
STA. 1457+04.00 LT
NO IMPROVEMENTS

DRWY
STA. 1453+70.00 RT
NO IMPROVEMENTS

DRWY
STA. 1453+23.00 RT
NO IMPROVEMENTS

PT STA 1453+83.63

1455

℄ ROUTE 100 EB

EXIST. R/W

STA. 11+26.36 POINTE DR. =
STA. 1456+85.67 ROUTE 100

MILL/OVERLAY

POINTE DR

+60.05 42.77' LT.
NEW 8'X7' BUS PAD
+52.74 42.73' LT.
P.H.E. (TYP.)
TREE (DND)
EXIST. SIGN (DND)
+60.22 32.55' LT.
EXIST. SIGN (UIP)
EXIST. SIDEWALK (UIP)
EXIST. GAS VALVE (UIP)
SR PERP RAMP
EXIST. 24IN PIPE (UIP)
+52.99 32.41' LT.
EXIST. INLET (UIP)
EXIST. SIGN (UIP)
EXIST. CURB (UIP)
94°37'01"
93°36'31"
EXIST. PP (UIP)
EXIST. WATER VALVE (UIP)
EXIST. SIGN (UIP)
EXIST. GUY WIRE (UIP)
EXIST. SIGN (UIP)
EXIST. HYDRANT (UIP)
EXIST. WATER METER (UIP)
EXIST. SIDEWALK (UIP)
TREES (DND)
EXIST. GAS VALVE (UIP)
EXIST. SIGN (UIP)
EXIST. GUY WIRE (UIP)
EXIST. WATER VALVE (UIP)
+55.59 38.00' RT.
EXIST. WATER VALVE (UIP)
EXIST. WATER VALVE (UIP)
EXIST. 24" PIPE (UIP)
MODOT ITS
+31.66 35.27' LT.
EXIST. INLET (UIP)
EXIST. SAN. MH (UIP)
SR PERP RAMP
+31.66 40.27' LT.
EXIST. GAS VALVE (UIP)
SR PERP RAMP
EXIST. SIGN (UIP)
EXIST. SIDEWALK (UIP)
EXIST. GUY WIRE (UIP)
EXIST. PP (UIP)
+56.11 33.00' RT.
EXIST. PP (UIP)
EXIST. SIGN (UIP)
P.H.E. (TYP.)
EXIST. CURB (UIP)
TREES (R)
5' SIDEWALK (TYP)
+70.28 41.27' LT.
SR PERP RAMP
EXIST. SIGN (UIP)
5' SIDEWALK (TYP)
TREES (DND)
T.C.E. (TYP.)
EXIST. MAILBOX (UIP)
+87.95 36.27' LT.
EXIST. 24IN PIPE (UIP)
+72.02 36.27' LT.
EXIST. GUY WIRE (UIP)
EXIST. PP (UIP)
EXIST. WATER VALVE (UIP) +51.17 33.00' RT.
NEW TYPE S CURB
SR PERP RAMP
+55.14 38.00' RT.
TREES (DND)
EXIST. SIGN (UIP)
EXIST. AT&T-D MH (UIP)
T.C.E. (TYP.)
NEW TYPE S CURB +88.76 41.27' LT.
EXIST. WATER VALVE (UIP)
SR PERP RAMP
EXIST. SIGN (RELOC.)
EXIST. INLET (UIP)
+20.49 36.27' LT.
EXIST. 18IN PIPE (UIP)
+96.43 41.27' LT.
SR PERP RAMP
EXIST. SIGN (RELOC.)
EXIST. MAILBOX (UIP)
+18.52 41.27' LT.
SR PERP RAMP
EXIST. MAILBOX (UIP)
EXIST. PP (UIP)
EXIST. 12IN PIPE (UIP)
EXIST. STORM MH (ATG)
TREES (DND)
EXIST. PULL BOX (UIP)
EXIST. WATER METER (ATG)
EXIST. 12IN PIPE (UIP)
+94.65 36.27' LT.
+97.07 32.67' RT.
NEW TYPE S CURB
EXIST. SIGN (UIP)
EXIST. PP (UIP) +34.10 33.34' RT.
+52.00 30.78' RT.
EXIST. PP (UIP) +84.47 32.88' RT.
TREES (DND)
EXIST. SIGN (UIP)
+34.10 37.38' RT.
SR PERP RAMP
+97.47 37.67' RT.
EXIST. MEDIAN (MODIFY)
S54°

62
220410636, 220410627
13231-13239 MANCHESTER RD
N/F
13239 MANCHESTER RD, LLC
DB 12419, PG 1564
SEE SHEET 15

60
22P620452
13275 MANCHESTER RD
N/F
HORN LAKE PROPERTIES LLC
DB 22168, PG 5024
655 SF P.H.E.
4,153 SF T.C.E.

54
22P620591
13307 MANCHESTER RD
N/F
HORN LAKE PROPERTIES LLC
DB 14980, PG 1635
1,653 SF P.H.E.
2,534 SF T.C.E.

PLAN SHEET LEGEND
- EXISTING RIGHT-OF-WAY (EXIST. ROW)
- PERMANENT EASEMENT (P.H.E.)
- TEMPORARY CONSTRUCTION EASEMENT (T.C.E.)
- CONSTRUCTION LIMITS (SL)
- PROPOSED EPOXY URETHANE POLYMER OVERLAY
- SIDEWALK REMOVAL
- PROPOSED SIDEWALK
- PROPOSED MILL/OVERLAY

SHEET 12 OF 54

PLAN SHEET

MO ROUTE 100
MANCHESTER ROAD

STATE OF MISSOURI
BRIAN D. KIERATH JR.
NUMBER PE-2023008624
PROFESSIONAL ENGINEER
04/01/2025 10:40:36 AM
Brian D. Kierath Jr. - Civil
MO PE-2023008624

DATE PREPARED
4/1/2025

ROUTE	STATE
100	MO
DISTRICT	SHEET NO.
SL	16

COUNTY
ST. LOUIS

JOB NO.
J6P3274

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)

GBA
16305 SWINGLEY RIDGE RD
ST. 300
CHESTERFIELD, MO 63017
314.231.0100
GBAteam.com

GEORGE BUTLER ASSOCIATES, INC.
PRO. ENGINEER 000133
ARCHITECT 000212
PRO. LAND SURVEYOR 000059

BRIAN KIERATH
PROFESSIONAL ENGINEER
PE-2023008624

SCALE
0 20 40 60

PROP_100	
PI	1466+22.63
PC	1462+23.03
PT	1470+12.79
△	21°32'50.8" (LT)
D	2°43'42.1"
L	789.75' (ARC)
T	399.60'
R	2,100.00'

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22P620131
13302 MANCHESTER RD
N/F
MANCHESTER PROPERTIES MGMT LLC
DB 23743, PG 357
NO ACQUISITION

22P620122
13314 MANCHESTER RD
N/F
BUELER FREDERICK L JR & ANN MARIE H/W
DB 23422, PG 2132
NO ACQUISITION

55
22P340044
13350 MANCHESTER RD
N/F
MANCHESTER 13350 LLC
DB 18846, PG 790
240 SF T.C.E.

53
VOID
22P340604
13354 MANCHESTER RD
N/F
IRONSTONE INVESTMENTS LLC
DB 24908, PG 1317

54
22P620591
13307 MANCHESTER RD
N/F
HORN LAKE PROPERTIES LLC
DB 14980, PG 1635
SEE SHEET 16

MATCHLINE STA. 1458+00.00

MATCHLINE STA. 1463+00.00

DRWY STA. 1458+11.00 LT NO IMPROVEMENTS

DRWY STA. 1459+13.00 LT 28' WIDE PAVED APPROACH (8") GRADE = 2.0% (5'ADA PATH) / 8.0% AT ℄

DRWY STA. 1460+21.00 LT NO IMPROVEMENTS

DRWY STA. 1461+73.00 LT NO IMPROVEMENTS

1460

+26.81 41.27' LT. EXIST. PP (UIP) SR PERP RAMP 5' SIDEWALK (TYP) EXIST. LANDSCAPING (UIP)

+02.75 41.27' LT.

+06.18 41.27' LT. EXIST. SIGN (RELOC.)

EXIST. SIGN (RELOC.) +31.87 41.27' LT.

TREES (R) EXIST. R/W SR PERP RAMP

R 9' R 11' R 11' R 9'

+28.67 36.27' LT. EXIST. SIDEWALK (R) EXIST. CURB (UIP) EXIST. WATER METER (ATG) EXIST. SIGN (RELOC.) SR PERP RAMP

EXIST. MAILBOX (UIP) SR PERP RAMP +04.42 36.27' LT.

83°56'31"

+34.48 36.27' LT.

90° 90° 90°

MILL/OVERLAY

+00.30 36.27' LT.

12'49"W

℄ ROUTE 100 EB

EXIST. WATER VALVE (UIP) EXIST. SIGN (UIP) EXIST. GUY WIRE (UIP) TREES (DND) EXIST. MAILBOX (UIP) EXIST. PP (UIP) EXIST. GAS VALVE (UIP) EXIST. R/W

EXIST. AT&T-D MH (UIP) EXIST. MARKER (UIP) EXIST. PULL BOX (UIP) TREES (DND)

PC STA 1462+23.03

MODOT ITS EXIST. GUY WIRES (UIP)

EXIST. SIGN (UIP) EXIST. PULL BOX (UIP) EXIST. AT&T-D MH (UIP)

+43.16 30.68' RT. 6' SIDEWALK EXIST. SIGN (UIP)

+62.89 33.50' RT. 4' SIDEWALK +82.24 30.73' RT. +68.68 36.71' RT. +62.89 37.54' RT. T.C.E. (TYP.) EXIST. PP (UIP) EXIST. SIGN (UIP)

6' SIDEWALK +44.89 30.76' RT. +58.47 36.74' RT. EXIST. CURB (UIP)

+85.17 36.52' RT. EXIST. PP (UIP) 4' SIDEWALK

+24.24 30.93' RT. P.H.E. (TYP.) 6' SIDEWALK EXIST. SIGN (UIP)

+58.27 30.93' RT. +72.16 36.93' RT. EXIST. WATER VALVE (UIP)

EXIST. R/W

TREES (DND) TREES (DND) TREES (DND)

+67.25 32.78' RT. EXIST. SIGN (UIP) +31.64 41.78' RT. EXIST. GUY WIRE (UIP) EXIST. PP (UIP) 4' SIDEWALK EXIST. HYDRANT (UIP)

+92.56 33.35' RT. +55.13 38.51' RT. +92.34 39.34' RT. 6' SIDEWALK EXIST. LIGHT POLE (UIP)

ROUTE 100 RAMP

EXIST. R/W

TREES (DND)

PLAN SHEET LEGEND
- EXISTING RIGHT-OF-WAY (EXIST. ROW)
- PERMANENT EASEMENT (P.H.E.)
- TEMPORARY CONSTRUCTION EASEMENT (T.C.E.)
- CONSTRUCTION LIMITS (SL)
- PROPOSED EPOXY URETHANE POLYMER OVERLAY
- SIDEWALK REMOVAL
- PROPOSED SIDEWALK
- PROPOSED MILL/OVERLAY

PLAN SHEET

MO ROUTE 100
MANCHESTER ROAD

STATE OF MISSOURI
BRIAN D. KIERATH JR.
NUMBER PE-2023008624
PROFESSIONAL ENGINEER
04/01/2025 10:40:36 AM
Brian D. Kierath Jr. - Civil
MO PE-2023008624

DATE PREPARED 4/1/2025

ROUTE	STATE
100	MO
DISTRICT	SHEET NO.
SL	17

COUNTY ST. LOUIS
JOB NO. J6P3274
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)

GBA
16305 SWINGLEY RIDGE RD
ST. 300
CHESTERFIELD, MO 63017
314.231.0100
GBAteam.com

GEORGE BUTLER ASSOCIATES, INC.
PRO. ENGINEER 000133
ARCHITECT 000212
PRO. LAND SURVEYOR 000059

BRIAN KIERATH
PROFESSIONAL ENGINEER
PE-2023008624

SCALE
0 20 40 60

PROP_100	
PI	1466+22.63
PC	1462+23.03
PT	1470+12.79
△	21°32'50.8" (LT)
D	2°43'42.1"
L	789.75' (ARC)
T	399.60'
R	2,100.00'

52
VOID
22P340594
13358 MANCHESTER RD
N/F
PRC INVESTMENTS L C
DB 25284, PG 5307

51
22P340503
13380 MANCHESTER RD
N/F
D & D PARTNERSHIP LLC
DB 13518, PG 0328
2,465 SF T.C.E.

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STATE OF MISSOURI
BRIAN D. KIERATH JR.
NUMBER PE-2023008624
PROFESSIONAL ENGINEER
04/01/2025 10:40:37 AM
Brian D. Kierath Jr. - Civil
MO PE-2023008624

DATE PREPARED 4/1/2025
ROUTE 100 | STATE MO
DISTRICT SL | SHEET NO. 18
COUNTY ST. LOUIS
JOB NO. J6P3274
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)

GBA
16305 SWINGLEY RIDGE RD
ST. 300
CHESTERFIELD, MO 63017
314.231.0100
GBAteam.com

GEORGE BUTLER ASSOCIATES, INC.
PRO. ENGINEER 000133
ARCHITECT 000212
PRO. LAND SURVEYOR 000059

BRIAN KIERATH
PROFESSIONAL ENGINEER
PE-2023008624

EXIST. PP (UIP)
EXIST. 18" PIPE (UIP)
EXIST. CHARTER HH (UIP)
EXIST. CURB (UIP)
EXIST. LANDSCAPING (UIP)
DRWY
STA. 1464+00.00 LT
NO IMPROVEMENTS
TREES (DND)
EXIST. INLET (UIP)
EXIST. HYDRANT (UIP)
EXIST. R/W
EXIST. INLET (UIP)
EXIST. SIGN (UIP)
EXIST. 18" PIPE (UIP)
EXIST. PP (UIP)
EXIST. SIGN (UIP)
EXIST. SIGN (UIP)
EXIST. STORM MH (UIP)
MILL/OVERLAY
℄ ROUTE 100 EB
EXIST. LANDSCAPING (UIP)
EXIST. SIGN (UIP)
TREES (DND)
EXIST. PP (UIP)
MODOT ITS
DRWY
STA. 1466+93.00 LT
NO IMPROVEMENTS
EXIST. INLET (UIP)
EXIST. GAS VALVE (UIP)
EXIST. SPRINKLER (UIP)
EXIST. CURB (UIP)
EXIST. 18" PIPE (UIP)
EXIST. SPRINKLER (UIP)
EXIST. WATER VALVE (UIP)
EXIST. SIGN (UIP)
EXIST. PP (UIP)
EXIST. GUY WIRE (UIP)
EXIST. SIGN (UIP)
EXIST. LANDSCAPING (UIP)
EXIST. SIGN (UIP)
EXIST. LANDSCAPING (UIP)
EXIST. GUY WIRES (UIP)
EXIST. PP (UIP)
EXIST. LANDSCAPING (UIP)
TREE (DND)
EXIST. AGGR. DITCH (UIP)
MILL/OVERLAY
EXIST. DITCH (UIP)
℄ ROUTE 100 WB
TREES (DND)
100 RAMP
MATCHLINE STA. 1463+00.00
MATCHLINE STA. 1468+00.00
MATCHLINE STA. 1470+00.00
SEE PLAN SHEET 54 OF 54
1465
90°

PLAN SHEET LEGEND
- EXISTING RIGHT-OF-WAY (EXIST. ROW)
- PERMANENT EASEMENT (P.H.E.)
- TEMPORARY CONSTRUCTION EASEMENT (T.C.E.)
- CONSTRUCTION LIMITS (SL)
- PROPOSED EPOXY URETHANE POLYMER OVERLAY
- SIDEWALK REMOVAL
- PROPOSED SIDEWALK
- PROPOSED MILL/OVERLAY

PLAN SHEET

MO ROUTE 100
MANCHESTER ROAD

SHEET 14 OF 54

SCALE
0 20 40 60

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STATE OF MISSOURI
BRIAN D. KIERATH JR.
NUMBER PE-2023008624
PROFESSIONAL ENGINEER
04/01/2025 10:40:37 AM
Brian D. Kierath Jr. - Civil
MO PE-2023008624

DATE PREPARED
4/1/2025

ROUTE	STATE
100	MO
DISTRICT	SHEET NO.
SL	19

COUNTY
ST. LOUIS
JOB NO.
J6P3274
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)

GBA
16305 SWINGLEY RIDGE RD
ST. 300
CHESTERFIELD, MO 63017
314.231.0100
GBAteam.com

GEORGE BUTLER ASSOCIATES, INC.
PRO. ENGINEER 000133
ARCHITECT 000212
PRO. LAND SURVEYOR 000059

BRIAN KIERATH
PROFESSIONAL ENGINEER
PE-2023008624

51
22P340503
13380 MANCHESTER RD
N/F
D & D PARTNERSHIP LLC
DB 13518, PG 0328
SEE SHEET 18

22P340558
13460 MANCHESTER RD
N/F
SJV 1 DES PERES LLC
DB 24614, PG 1491
NO ACQUISITION

MATCHLINE STA. 1468+00.00

EXIST. 12" PIPE (UIP)
EXIST. MODOT SIGNAL PULL BOX (UIP)
EXIST. MARKER (UIP)
EXIST. PP (UIP)
EXIST. LANDSCAPING (UIP)
EXIST. SIGN (UIP)
T.C.E. (TYP)
TREES (DND)
EXIST. SIDEWALK (UIP)
EXIST. CURB (UIP)
EXIST. 18" PIPE (UIP)
EXIST. 18" PIPE (UIP)
EXIST. STORM MH (UIP)
EXIST. GAS VALVE (UIP)
EXIST. GAS MARKER (UIP)

DRWY
STA. 1469+50.00 LT
NO IMPROVEMENTS

EXIST. 12" PIPE (UIP)
EXIST. INLET (UIP)
EXIST. GAS MARKER (UIP)
EXIST. GAS VALVE (UIP)
TREES (DND)
EXIST. PP (UIP)
EXIST. LOW STORM MH (ATG)
EXIST. LOW AT&T-D MH (UIP)
TREES (DND)
EXIST. R/W
MODOT ITS
EXIST. LANDSCAPE (UIP)
EXIST. PP (UIP)
TREES (DND)

1470
1475

PT STA 1470+12.79
PC STA 1474+93.10
PC STA 1472+57.08

℄ ROUTE 100 EB

MILL/OVERLAY

STA. 1470+34 RT
INSTALL IMPACT ATTENUATOR 45 MPH
(SAND BARREL ARRAY)
REMOVE EXIST. SAND BARREL ARRAY

NEW A2 SHOULDER

EXIST. MARKER (UIP)
EXIST. PULL BOX (UIP)
EXIST. TELE. MH (UIP)
EXIST. ELEC. METER (UIP)
EXIST. PULL BOX (UIP)
EXIST. SIGN (UIP)
EXIST. ISLAND (R)
EXIST. PP (UIP)
EXIST. GUY WIRE (UIP)
EXIST. INLET (UIP)
EXIST. AGGR. DITCH (UIP)

℄ ROUTE 100 WB

S32°39'58"W
EXIST. SIGN (UIP)
EXIST. BARRIER (UIP)
MILL/OVERLAY

EXIST. SIGN (UIP)
EXIST. 18" PIPE (UIP)
EXIST. INLET (UIP)
EXIST. STORM MH (UIP)
EXIST. 12" PIPE (UIP)
EXIST. INLET (UIP)
EXIST. LIGHT POLE (UIP)
EXIST. 18" PIPE (UIP)
EXIST. 18" PIPE (UIP)
EXIST. SIGN (UIP)
EXIST. CURB (UIP)
EXIST. R/W
EXIST. FLAG POLE (UIP)
EXIST. LANDSCAPING (UIP)
EXIST. PULL BOX (UIP)
EXIST. WATER METER (UIP)
EXIST. SIGN (UIP)

MILL/OVERLAY

EXIST. WATER VALVE (UIP)
EXIST. HYDRANT (UIP)
+77.81
58.59' RT.
TREES (DND)
EXIST. 18" PIPE (UIP)
EXIST. SIGN (UIP)
EXIST. INLET (UIP)
TREES (DND)
EXIST. SIGN (UIP)
EXIST. DITCH (UIP)

SAM'S DR
+31.76
60.30' RT.
EXIST. ISLAND (UIP)
EXIST. SIGN (UIP)

50
22P330162
13455 MANCHESTER RD
N/F
WAL-MART PROPERTIES INC
DB 08836, PG 0571
3.557 SF T.C.E.

MATCHLINE STA. 1473+00.00

EXIST. R/W
EXIST. R/W

PLAN SHEET LEGEND
- EXISTING RIGHT-OF-WAY (EXIST. ROW)
- PERMANENT EASEMENT (P.H.E.)
- TEMPORARY CONSTRUCTION EASEMENT (T.C.E.)
- CONSTRUCTION LIMITS (SL)
- PROPOSED EPOXY URETHANE POLYMER OVERLAY
- SIDEWALK REMOVAL
- PROPOSED SIDEWALK
- PROPOSED MILL/OVERLAY

SHEET 15 OF 54

PLAN SHEET

MO ROUTE 100
MANCHESTER ROAD

SCALE
0 20 40 60

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22P340558
13460 MANCHESTER RD
N/F
SJV 1 DES PERES LLC
DB 24614, PG 1491
NO ACQUISITION

STA. 1473+00.00

MATCHLINE STA. 1477+00.00

1475

1480

EXIST. R/W

EXIST. GUY WIRE (UIP)
EXIST. PP (UIP)
EXIST. MARKER (UIP)
EXIST. PULL BOX (UIP)
EXIST. GUY WIRE (UIP)
EXIST. PP (UIP)
MODOT ITS
TREES (DND)

℄ ROUTE 100 EB
MILL/OVERLAY
EXIST. INLET (UIP)
EXIST. SIGN (UIP)
EXIST. BARRIER (UIP)
℄ ROUTE 100 WB

+78.58
48.53' RT.
+82.23
44.76' RT.
+86.78
47.22' RT.
+00.45
43.28' RT.

EXIST. SIGN (UIP)
EXIST. 12" PIPE (UIP)
EXIST. CURB (UIP)
EXIST. INLET (UIP)
EXIST. R/W
EXIST. 18" PIPE (UIP)
EXIST. LIGHT POLE (UIP)
EXIST. SIGN (UIP)
EXIST. 18" PIPE (UIP)
+21.94
62.57' RT.
EXIST. 12" PIPE (UIP)
EXIST. INLET (UIP)

R 40'
5' SIDEWALK (TYP.)
EXIST. SIGN (UIP)
T.C.E.
+01.20
48.29' RT.
EXIST. PULL BOX (UIP)
EXIST. SIGN (RELOC.)
SR PERP RAMP
+86.14
52.61' RT.
+70.42
62.18' RT.
EXIST. ISLAND (UIP)
EXIST. SIGN (UIP)
EXIST. INLET (UIP)
EXIST. 12" PIPE (UIP)
SAM'S DR
TREE (DND)
TREE (DND)

50
22P330162
13455 MANCHESTER RD
N/F
WAL-MART PROPERTIES INC
DB 08836, PG 0571
SEE SHEET 19

PROP_100	
PI	1480+69.40
PC	1474+93.10
PT	1485+51.87
△	56°10'9.6" (RT)
D	5°18'18.6"
L	1,058.77' (ARC)
T	576.29'
R	1,080.00'

PROP_100_WB	
PI	1477+44.71
PC	1472+57.08
PT	1481+75.08
△	47°48'57.7" (RT)
D	5°12'31.3"
L	918.00' (ARC)
T	487.64'
R	1,100.00'

PLAN SHEET LEGEND
- EXISTING RIGHT-OF-WAY (EXIST. ROW)
- PERMANENT EASEMENT (P.H.E.)
- TEMPORARY CONSTRUCTION EASEMENT (T.C.E.)
- CONSTRUCTION LIMITS (SL)
- PROPOSED EPOXY URETHANE POLYMER OVERLAY
- SIDEWALK REMOVAL
- PROPOSED SIDEWALK
- PROPOSED MILL/OVERLAY

STATE OF MISSOURI
BRIAN D. KIERATH JR.
NUMBER PE-2023008624
PROFESSIONAL ENGINEER
04/01/2025 10:40:38 AM
Brian D. Kierath Jr. - Civil
MO PE-2023008624

DATE PREPARED
4/1/2025

ROUTE	STATE
100	MO
DISTRICT	SHEET NO.
SL	20

COUNTY
ST. LOUIS
JOB NO.
J6P3274
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)

GBA
16305 SWINGLEY RIDGE RD
ST. 300
CHESTERFIELD, MO 63017
314.231.0100
GBAteam.com

GEORGE BUTLER ASSOCIATES, INC.
PRO. ENGINEER 000133
ARCHITECT 000212
PRO. LAND SURVEYOR 000059

SHEET 16 OF 54

PLAN SHEET

MO ROUTE 100
MANCHESTER ROAD

BRIAN KIERATH
PROFESSIONAL ENGINEER
PE-2023008624

SCALE
0 20 40 60

DISCLAIMER
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BRIAN D. KIERATH JR.
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04/01/2025 10:40:38 AM
Brian D. Kierath Jr. - Civil
MO PE-2023008624

DATE PREPARED 4/1/2025
ROUTE 100 | STATE MO
DISTRICT SL | SHEET NO. 21
COUNTY ST. LOUIS
JOB NO. J6P3274
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)

GBA
16305 SWINGLEY RIDGE RD
ST, 300
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GEORGE BUTLER ASSOCIATES, INC.
PRO. ENGINEER 000133
ARCHITECT 000212
PRO. LAND SURVEYOR 000059

BRIAN KIERATH
PROFESSIONAL ENGINEER
PE-2023008624

MATCHLINE STA. 1477+00.00

EXIST. FLAG POLE (UIP)
EXIST. LANDSCAPING (UIP)
EXIST. GUY WIRE (UIP)
EXIST. PP (UIP)
EXIST. GAS VALVE (UIP)
EXIST. ISLAND (UIP)
EXIST. SIGN (UIP)
EXIST. SIDEWALK (UIP)
SR PERP RAMP
EXIST. LIGHT POLE (UIP)
EXIST. SIGN (UIP)
EXIST. LANDSCAPING (UIP)
EXIST. R/W
TREES (DND)
EXIST. PP (UIP)
EXIST. SIGN (UIP)
EXIST. MARKER (UIP)
EXIST. PULL BOX (UIP)
PC STA 5+56.24
CENTEROYAL DR
S23°50'45"E
+39.77
46.36' LT.
+59.73
46.45' LT.
1480
EXIST. R/W
5' SIDEWALK (TYP)
EXIST. SIGN (UIP)
MODOT ITS
22P340558
13460 MANCHESTER RD
N/F
SJV 1 DES PERES LLC
DB 24614, PG 1491
NO AQUISITION
EXIST. SIGN (UIP)
STA. 5+00.00 CENTEROYAL DR. =
STA. 1482+59.00 ROUTE 100 EB
R 31'
+43.71
41.38' LT.
+59.75
41.45' LT.
MILL/OVERLAY
EXIST. CURB (UIP)
EXIST. INLET (UIP)
℄ ROUTE 100 EB
EXIST. 12" PIPE (UIP)
EXIST. SIGN (UIP)
EXIST. BARRIER (UIP)
℄ ROUTE 100 WB
STA. 5+00.00 N BARRETT PKWY DR. =
STA. 1485+59.00 ROUTE 100 WB
89°44'39"
EXIST. SIGN (UIP)
EXIST. 30" PIPE (UIP)
EXIST. 18" PIPE (UIP)
EXIST. 24" PIPE (UIP)
EXIST. STORM MH (UIP)
EXIST. STORM MH (UIP)
EXIST. SIGN (UIP)
+38.56
46.81' RT.
+38.54
52.11' RT.
+29.41
44.32' RT.
EXIST. 30" PIPE (UIP)
+63.60
48.64' RT.
EXIST. ISLAND (UIP)
+39.35
53.22' RT.
EXIST. GUARDRAIL (UIP)
EXIST. FENCE (UIP)
EXIST. SIDEWALK (UIP)
EXIST. R/W
EXIST. R/W
EXIST. SIGN (UIP)
+07.26
73.88' RT.
S25°03'17"E
+09.77
31.92' RT.
EXIST. 12" PIPE (UIP)
EXIST. PP (UIP)
EXIST. GUY WIRE (UIP)
EXIST. 30" PIPE (UIP)
STA. 1477+48.83, 81.3' RT
INSTALL SIGN
EXIST SIGN (R)
EXIST INLET (UIP)
EXIST 12" PIPE (UIP)
EXIST. INLET (UIP)
+02.78
76.64' RT.
+17.13
87.48' RT.
EXIST. INLET (UIP)
EXIST. INLET (UIP)
EXIST. FES (UIP)
+62.99
53.61' RT.
+12.55
90.19' RT.
EXIST. PP (UIP)
5' SIDEWALK (TYP)
EXIST. SIGN (UIP)
EXIST. 30" PIPE (UIP)
22P310629
13573 MANCHESTER RD
N/F
FFCA CO-INVESTMENT LIMITED
PTNSP A DELA
DB 10048, PG 2443
NO ACQUISITION
EXIST. 30" PIPE (UIP)
EXIST. INLET (UIP)
+08.15
36.64' RT.
EXIST. GUARDRAIL (UIP)
5' SIDEWALK (TYP)
PT STA 3+86.51
N BARRETT PKWY DR
+25.97
128.27' RT.
EXIST. R/W
+31.63
127.94' RT.
50
22P330162
13455 MANCHESTER RD
N/F
WAL-MART PROPERTIES INC
DB 08836, PG 0571
SEE SHEET 19
49
22P330209
13565 MANCHESTER RD
N/F
WAL-MART PROPERTIES INC
DB 08836, PG 0571
464 SF T.C.E.
EXIST. HYDRANT (UIP)
T.C.E. (TYP.)
+58.08
31.46' RT.
+57.29
26.50' RT.
+36.00
31.56' RT.
+36.00
27.90' RT.
EXIST. SIDEWALK (UIP)
EXIST. R/W
EXIST. SIGN (UIP)
+33.00
29.42' LT.
+33.00
24.41' LT.
EXIST. SIDEWALK (UIP)

MATCHLINE STA. 1481+00.00

47
22P310582
13537 BARRETT PARKWAY DR.
TCG BARRETT WOODS HOLDINGS LLC
DB 22656, PG 1362
1,833 SF T.C.E.

PROP_100	
PI	1480+69.40
PC	1474+93.10
PT	1485+51.87
△	56°10'9.6" (RT)
D	5°18'18.6"
L	1,058.77' (ARC)
T	576.29'
R	1,080.00'

PROP_100_WB	
PI	1477+44.71
PC	1472+57.08
PT	1481+75.08
△	47°48'57.7" (RT)
D	5°12'31.3"
L	918.00' (ARC)
T	487.64'
R	1,100.00'

CENTEROYAL_DR	
PI	5+94.92
PC	5+56.24
PT	6+24.96
△	65°37'33.9" (LT)
D	95°29'34.0"
L	68.72' (ARC)
T	38.69'
R	60.00'

N_BARRET_PARKWAY_DR	
PI	2+79.24
PC	1+09.97
PT	3+86.51
△	83°23'35.4" (RT)
D	30°9'20.2"
L	276.54' (ARC)
T	169.26'
R	190.00'

PLAN SHEET LEGEND
- EXISTING RIGHT-OF-WAY (EXIST. ROW)
- PERMANENT EASEMENT (P.H.E.)
- TEMPORARY CONSTRUCTION EASEMENT (T.C.E.)
- CONSTRUCTION LIMITS (SL)
- PROPOSED EPOXY URETHANE POLYMER OVERLAY
- SIDEWALK REMOVAL
- PROPOSED SIDEWALK
- PROPOSED MILL/OVERLAY

SHEET 17 OF 54

PLAN SHEET

MO ROUTE 100
MANCHESTER ROAD

SCALE

0 20 40 60

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PROFESSIONAL ENGINEER
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MO PE-2023008624

DATE PREPARED
4/1/2025

ROUTE	STATE
100	MO
DISTRICT	SHEET NO.
SL	22

COUNTY
ST. LOUIS

JOB NO.
J6P3274

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)

GBA
16305 SWINGLEY RIDGE RD
ST, 300
CHESTERFIELD, MO 63017
314.231.0100
GBAteam.com

GEORGE BUTLER ASSOCIATES, INC.
PRO, ENGINEER 000133
ARCHITECT 000212
PRO, LAND SURVEYOR 000059

BRIAN KIERATH
PROFESSIONAL ENGINEER
PE-2023008624

MATCHLINE STA. 1481+00.00

MATCHLINE STA. 1485+00.00

46
22P310610
2200 BARRETT STATION RD.
N/F
ROLWES PROPERTIES LLC
DB 22660, PG 3299
818 SF T.C.E.

47
22P310582
13537 BARRETT PARKWAY DR.
N/F
TCG BARRETT WOODS HOLDINGS LLC
DB 22656, PG 1362
SEE SHEET 21

48
22P330135
13589 MANCHESTER RD
N/F
AMEREN UE
DB 15562, PG 1076
3,176 SF P.H.E.
2,184 SF T.C.E.

49
22P330209
13565 MANCHESTER RD
N/F
WAL-MART PROPERTIES INC
DB 08836, PG 0571
SEE SHEET 21

22P330171
13560 N BARRETT PARKWAY DR.
N/F
ESQUIRE HOLDINGS LLC
DB 21510, PG 1708
NO ACQUISITION

22P310629
13573 MANCHESTER RD
N/F
FFCA CO-INVESTMENT LIMITED
PTNSP A DELA
DB 10048, PG 2443
NO ACQUISITION

TREES (DND)
+03.07
42.03' LT.
EXIST. 30" PIPE (UIP)
EXIST. R/W
EXIST. SIGN (RELOC)
EXIST. PP (UIP)
T.C.E. (TYP.)
EXIST. PP (UIP)
+02.77
37.04' LT.
PT STA 1481+75.08
PT STA 1485+51.87
EXIST. SHELTER (RELOC.)
+88.00
35.43' LT.
+88.00
33.49' LT.
EXIST. AT&T-D HH (UIP)
EXIST. LIGHT POLE (UIP)
5' SIDEWALK (TYP)
EXIST. MARKER (UIP)
EXIST. PULL BOX (UIP)
EXIST. R/W
EXIST. SIGN (UIP)
MODOT ITS
EXIST. CURB (UIP)
+81.00
35.41' LT.
+81.00
24.48' LT.
+88.00
24.49' LT.
NEW 17'X 9' BUS PAD
℄ ROUTE 100 EB
MILL/OVERLAY
EXIST. BARRIER (UIP)
EXIST. INLET (UIP)
EXIST. MEDIAN (UIP)
EXIST. TELE. MH (UIP)
℄ ROUTE 100 WB
S80°28'56"W
EXIST. 12" PIPE (UIP)
EXIST. TELE. MH (UIP)
EXIST. INLET (UIP)
EXIST. 15" PIPE (UIP)
EXIST. PULL BOX (UIP)
+30.03
48.00' RT.
EXIST. 15" PIPE (UIP)
EXIST. SIGN (UIP)
EXIST. SIDEWALK (UIP)
EXIST. PULL BOX (UIP)
EXIST. R/W
EXIST. INLET (UIP)
5' SIDEWALK (TYP)
TREES (DND)
EXIST. PP (UIP)
EXIST. GUY WIRE (UIP)
EXIST. PP (UIP)
TREES (DND)
EXIST. LIGHT POLE (UIP)
EXIST. LIGHT POLE (UIP)
EXIST. LIGHT POLE (UIP)
EXIST. PULL BOX (UIP)
EXIST. SIGN (UIP)
EXIST. MARKER (UIP)
EXIST. PP (UIP)
EXIST. GUY WIRE (UIP)
EXIST. GUY WIRE (UIP)
EXIST. GUY WIRE (UIP)
EXIST. PP (UIP)
+30.03
53.00' RT.
EXIST. GUY WIRE (UIP)
EXIST. PP (UIP)
EXIST. GUY WIRE (UIP)

PLAN SHEET LEGEND
- EXISTING RIGHT-OF-WAY (EXIST. ROW)
- PERMANENT EASEMENT (P.H.E.)
- TEMPORARY CONSTRUCTION EASEMENT (T.C.E.)
- CONSTRUCTION LIMITS (SL)
- PROPOSED EPOXY URETHANE POLYMER OVERLAY
- SIDEWALK REMOVAL
- PROPOSED SIDEWALK
- PROPOSED MILL/OVERLAY

SHEET 18 OF 54

PLAN SHEET

MO ROUTE 100
MANCHESTER ROAD

SCALE
0 20 40 60

NOTE:
SEE SIGNAL SHEET 2 FOR SIGNAL DESIGN

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BRIAN D. KIERATH JR.
NUMBER PE-2023008624
PROFESSIONAL ENGINEER
04/01/2025 10:40:39 AM
Brian D. Kierath Jr. - Civil
MO PE-2023008624

DATE PREPARED
4/1/2025

ROUTE	STATE
100	MO
DISTRICT	SHEET NO.
SL	23

COUNTY
ST. LOUIS

JOB NO.
J6P3274

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)

MATCHLINE STA. 1485+00.00

MATCHLINE STA. 1490+25.00

46
22P310610
2200 BARRETT STATION RD.
N/F
ROLWES PROPERTIES LLC
DB 22660, PG 3299
SEE SHEET 22

45
22P220584
13600 MANCHESTER RD.
N/F
HOLLOWAY RONALD S TRUSTEE ETAL
DB 12389, PG 0091
1.496 SF P.H.E.
466 SF T.C.E.

48
22P330135
13589 MANCHESTER RD
N/F
AMEREN UE
DB 15562, PG 1076
SEE SHEET 22

43
22P240302
2175 BARRETT STATION
N/F
AMERICAN EAGLE CREDIT UNION
DB 17691, PG 2526
1.571 SF P.H.E.
1.249 SF T.C.E.

BARRETT STATION RD
EXIST. R/W
℄ ROUTE 100 EB
℄ ROUTE 100 WB
℄ ROUTE 100
END STA 1489+85.20
PT STA 4+15.01
PC STA 3+35.25
STA. 5+00.00 BARRETTSTATION RD. = STA. 1487+32.59 ROUTE 100 EB
STA. 5+00.00 BARRETT STATION RD. = STA. 1487+24.65 ROUTE 100 EB
S15°49'56"E
S14°57'36"E
95°26'52"
96°44'54"
S80°2
MILL/OVERLAY
DRWY STA. 1489+82.00 LT. (24")
32' WIDE PAVED APPROACH
GRADE = 1.5% (6'ADA PATH) / 4.0% AT ℄
R 15'
EXIST. SIDEWALK (UIP)
EXIST. SIGN (UIP)
EXIST. SIGN (RELOC.)
EXIST. INLET 22P3-202D (ATG)
EXIST. AT&T-D MH (ATG)
EXIST. SAN. CLEAN OUT(RELOC.)
5' SIDEWALK
T.C.E. (TYP)
+88.67 40.64' LT.
+56.96 63.03' LT.
+27.93 42.00' LT.
+88.76 35.96' LT.
+99.97 36.17' LT.
EXIST. CONCRETE PAD (R)
EXIST. EVERSTREAM HH (ATG)
EXIST. ISLAND (UIP)
EXIST. GAS VALVE (ATG)
MODOT ITS
EXIST. SIGN (UIP)
EXIST. 12" PIPE (UIP)
EXIST. STORM MH (UIP)
EXIST. INLET (UIP)
EXIST. STORM MH 22P3-207D (UIP)
EXIST. INLET 22P3-203D (UIP)
+52.32 66.84' LT.
T1 PAR RAMP
6' SIDEWALK
NEW TYPE S CURB
EXIST. PULL BOX (ATG)
+99.85 42.17' LT.
EXIST. STORM MH 22P3-206D(UIP)
EXTST. WATER VALVE (UIP)
+62.58 53.04' RT.
+65.32 58.38' RT.
EXIST. PULL BOX (UIP)
EXIST. PP (UIP)
EXIST. ELEC. RISER (UIP)
T2 PAR RAMP
EXIST. WATER VALVE (UIP)
+16.85 42.64' LT.
P.H.E. (TYP)
+61.88 43.00' LT.
SR PERP RAMP
+51.46 43.00' LT.
EXIST. LIGHT POLE (UIP)
+15.12 36.79' LT.
EXIST. GAS VALVE (UIP)
EXIST. GUY WIRE (UIP)
+51.46 38.00' LT.
+61.46 38.00' LT.
EXIST. SLOTTED DRAIN (UIP)
+95.15 38.00' LT.
EXIST. CURB (UIP)
EXIST. STORM MH 22P3-185D (ATG)
EXIST. INLET 22P3-120D (UIP)
SR PERP RAMP
EXIST. SAN. CLEAN OUT (UIP)
+94.31 43.00' LT.
EXIST. MEDIAN (UIP)
EXIST. 24" PIPE (UIP)
+61.00 77.00' RT.
EXIST. CURB (UIP)
EXIST. INLET (UIP)
EXIST. PULL BOX (UIP)
EXIST. STORM MH 22P3-078S (UIP)
EXIST. SAN. MH 22P3-077S (UIP)
EXIST. INLET 22P3-127D (UIP)
+81.12 63.98' RT.
EXIST. INLET (UIP)
EXIST. PP (UIP)
EXIST. INLET 22P3-278D (UIP)
EXIST. GUY WIRE (UIP)
5' SIDEWALK (TYP)
+13.94 56.97' RT.
+05.94 57.09' RT.
EXIST. MH (UIP)
+14.49 83.03' RT.
EXIST. MCI HH (ATG)
+14.05 64.00' RT.
NEW 8'X7' BUS PAD
+06.04 64.00' RT.
EXIST. HYDRANT (UIP)
+09.97 85.07' RT.
+87.46 69.00' RT.
+61.00 82.00' RT.
TREES (DND)
EXIST. 15" PIPE (UIP)
EXIST. BOLLARDS (UIP)
EXIST. STORM MH (UIP)
+66.00 42.60' RT.
+66.00 48.63' RT.
EXIST. 24" PIPE (UIP)
EXIST. INLET 22P3-119D (UIP)
EXIST. MEDIAN (UIP)

N_BARRET_STATION_RD	
PI	3+75.37
PC	3+35.25
PT	4+15.01
△	15°14'2.5" (LT)
D	19°5'54.8"
L	79.77' (ARC)
T	40.12'
R	300.00'

PLAN SHEET LEGEND
- EXISTING RIGHT-OF-WAY (EXIST. ROW)
- PERMANENT EASEMENT (P.H.E.)
- TEMPORARY CONSTRUCTION EASEMENT (T.C.E.)
- CONSTRUCTION LIMITS (SL)
- PROPOSED EPOXY URETHANE POLYMER OVERLAY
- SIDEWALK REMOVAL
- PROPOSED SIDEWALK
- PROPOSED MILL/OVERLAY

SHEET 19 OF 54

PLAN SHEET

MO ROUTE 100
MANCHESTER ROAD

GBA
16305 SWINGLEY RIDGE RD
ST. 300
CHESTERFIELD, MO 63017
314.231.0100
GBAteam.com

GEORGE BUTLER ASSOCIATES, INC.
PRO. ENGINEER 000133
ARCHITECT 000212
PRO. LAND SURVEYOR 000059

BRIAN KIERATH
PROFESSIONAL ENGINEER
PE-2023008624

SCALE
0 20 40 60

MATCHLINE STA. 1490+25.00

44
22P220566
13616 MANCHESTER RD.
N/F
GREATER ST LOUIS AUTOMOTIVE ASSOCIATION
DB 16826, PG 2719
835 SF P.H.E.
1,050 SF T.C.E.

EXIST. GUARDRAIL (R)
EXIST. INLET 22P3-182D (UIP)
EXIST. 15" PIPE (UIP)
EXIST. 12" PIPE (UIP)
EXIST. STORM MH 22P3-181D (UIP)
EXIST. HYDRANT (UIP)
EXIST. GUY WIRE (UIP)
EXIST. PP (UIP)
EXIST. ELEC. RISER (UIP)
T1 PAR RAMP
NEW TYPE S CURB
EXIST. SIGN (RELOC.)
+65.76
43.00' LT.
5' SIDEWALK
T.C.E. (TYP.)
EXIST. STORM MH 22P3-180D (ATG)
EXIST. EVERSTREAM HH (ATG BO)
EXIST. STORM MH 22P3-185D (ATG)
EXIST. PULL BOX (UIP)
EXIST. CURB (UIP)
BUSHES (DND)
P.H.E.
EXIST. R/W
EXIST. INLET 22P3-179D (UIP)
EXIST. SAN. MH (UIP)
EXIST. SIGN (UIP)
EXIST. 15" PIPE (UIP)
EXIST. SIGN (UIP)
EXIST. 18" PIPE (UIP)
+69.13
38.00' LT.
℄ ROUTE 100
+17.73
48.90' LT.
+26.06
40.56' LT.
EXIST. GAS VALVE (UIP)
MILL/OVERLAY
EXIST. MEDIAN (UIP)
EXIST. SIGN (UIP)
8'56"W
PERM. ESM'T (TYP.)
EXIST. PP (UIP)
EXIST. 42" PIPE (UIP)
5' SIDEWALK (TYP.)
EXIST. 36" PIPE (UIP)
EXIST. SIGN (UIP)
EXIST. INLET 22P3-125D (ATG)
R=21.5'
NEW TYPE S CURB
EXIST. SIDEWALK (R)
EXIST. INLET (UIP)
EXIST. PP (UIP)
EXIST. GUY WIRE (UIP)
EXIST. SIGN (UIP)
EXIST. R/W
EXIST. INLET (UIP)
EXIST. 12" PIPE (UIP)
SR PERP RAMP
+69.34
64.00' RT.
+73.51
69.00' RT.
EXIST. GUY WIRE (UIP)
EXIST. FES (UIP)
SR PERP RAMP
EXIST 12" PIPE (UIP)
EXIST SAN. MH 22P3-129D (UIP)
SR PERP RAMP
EXIST. 36" PIPE (UIP)
EXIST. STORM MH (UIP)

DRWY
STA. 1490+50.00 RT
19' WIDE PAVED APPROACH (8")
GRADE = 1.5% (5'ADA PATH) / 4.0% AT ℄

42
22P240467
2115 BARRETT STATION RD
N/F
ENVISION ST. LOUIS LLC
DB 23214, PG 2076
1,101 SF P.H.E.
1,065 SF T.C.E.

EXIST. R/W
BARRETT PKWY DR
S09°31'04"E
EXIST. 30" PIPE (UIP)
EXIST. SIGN (UIP)
40
22P220575
13620 MANCHESTER RD.
N/F
DIVERSIFIED STORAGE FUNDII
DB 08671, PG 0145
1,169 SF P.H.E.
T1 PAR RAMP
EXIST. ISLAND (UIP)
EXIST. SIGN (UIP)
+02.88
70.81' LT.
+07.15
66.54' LT.
EXIST. SAN. MH (UIP)
+93.06
52.67' LT.
+93.73
67.20' LT.
EXIST. SIGN (UIP)
+21.07
52.62' LT.
+28.14
45.55' LT.
RSR (SEE ISLAND AND MEDIAN DETAIL SHEET 1)
MODOT LTS
+78.85
52.37' LT.
+82.38
48.83' LT.
EXIST. SIGN (RELOC.)
+73.83
40.29' LT.
EXIST. MODOT PULL BOX (ATG)
ISLAND CUT-THROUGH
EXIST. GAS VALVE (UIP)
STA 1493+35.42
BEGIN PAVEMENT RECONSTRUCTION
END MILL/OVERLAY
90°
EXIST. SIGN (UIP)
STA. 5+00.00 BARRETT PKWY DR. =
STA. 1492+48.25 ROUTE 100
℄ ROUTE 100 STA. 1493+56 TO STA. 1493+90
INSTALL 35' CONCRETE SAFETY BARRIER TYPE D
℄ ROUTE 100 STA. 1492+80 TO STA. 1493+55
INSTALL 37.5' MGS GUARDRAIL
W/ 1 TYP A CRASHWORTHY END TERMINAL (MASH)
& 1 MGS BRIDGE APPROACH TRANSITION SECTION
(REGULAR/NO CURB)
EXIST. R/W
EXIST. CURB (UIP)
EXIST. PP (UIP)
EXIST. SAN. MH 22P3-076S (UIP)
EXIST. SIGN (UIP)
EXIST. AT&T-D (UIP)
EXIST. AT&T-D TOLL CABLE (TBA)
CHANNEL BOTTOM SHALL BE GRADED WITHIN THE RIGHT OF WAY FOR TRANSITION OF CHANNEL BED TO CULVERT OPENING. CHANNEL BANKS SHALL BE TAPERED TO MATCH CULVERT OPENING.
INSTALL 14.6 CU. YD. TYPE 2 ROCK BLANKET
P.H.E.

DRWY
STA. 1492+12.00 RT
15' WIDE PAVED APPROACH (8")
GRADE = 1.5% (5'ADA PATH) / 9.5% AT ℄

41
22P240476
2173 BARRETT STATION RD
N/F
BARRETT STATION PROPERTY LLC
DB 24132, PG 1608
400 T.C.E.

BARRET_PKWY_DR	
PI	9+70.89
PC	7+79.88
PT	10+73.31
△	93°24'7.7" (LT)
D	31°49'51.3"
L	293.43' (ARC)
T	191.02'
R	180.00'

23P540665
2309 BARRETT STATION RD.
N/F
STATE OF MISSOURI
DB 9080, PG 1755
NO AQUISITION

STA. 1494+22.07, 47.8' LT.
INSTALL SIGN
EXIST. LIGHT POLE (RELOC.)
EXIST. SIGN (RELOC.)
EXIST. SIGN (RELOC.)
16" ST SF GAS MAIN (TO BE RELOCATED BY OTHERS)
P.H.E.
+57.74
46.31' LT.
+57.74
41.15' LT.
+55.42
41.18' LT.
+55.42
40.84' LT.
16' HP GAS
TREES (DND)
EXIST. R/W
+90.58
41.15' LT.
+90.58
40.31' LT.
℄ ROUTE 100 STA. 1493+55
TO STA. 1493+91 LT.
INSTALL 35' CONCRETE SAFETY BARRIER TYPE D
W/1 TYPE C CRASHWORTHY
END TERMINAL (MASH)
90°
STA 1494+20.58
END PAVEMENT RECONSTRUCTION
BEGIN MILL/OVERLAY
BRIDGE #A9276
REPLACING BRIDGE #F01813
AT&T - DUCT BANK
AT&T TO CONCRETE ENCASE AFTER ROAD CONTRACTOR REMOVES BRIDGE
OH (UIP)
EXIST. 24" PIPE (UIP)
EXIST. INLET (UIP)
EXIST. R/W
EXIST. 30" PIPE (UIP)
EXIST. LANDSCAPING (UIP)
EXIST. FES (UIP)
EXIST. GUARDRAIL (R.)
(DND-12 WATER MAIN)

39
22P220685
13642 MANCHESTER RD.
N/F
CALVERT GARY & LISA
DB 20629, PG 1000
2,787 SF P.H.E.
315 SF T.C.E.

DRWY
STA. 1494+66.00 LT
28' WIDE PAVED APPROACH (8")
GRADE = 1.5% (6'ADA PATH) / 4.0% AT ℄
+52.13
46.31' LT.
SR PERP RAMP
EXIST. INLET (UIP)
6' SIDEWALK
EXIST. INLET (UIP)
+80.42
46.00' LT.
EXIST. R/W
+47.67
40.31' LT.
EXIST. 12" PIPE (UIP)
NEW TYPE S CURB
EXIST. SIGN (R)
+87.05
40.27' LT.
SR PERP RAMP

35
22P220401
13645 MANCHESTER RD
N/F
CAPCO RECON LLC
DB 24524, PG 2084
3,992 SF P.H.E.

MATCHLINE STA. 1495+00.00

CONSTRUCTION NOTE:
IF ANY PART OF THE TOP SLAB IS EXPOSED, THE ROADWAY FILL SHALL BE WARPED TO PROVIDE 12" MINIMUM COVER

NOTE:
SEE CULVERT ROCK DETAILS SHEET

PLAN SHEET LEGEND
- EXISTING RIGHT-OF-WAY (EXIST. ROW)
- PERMANENT EASEMENT (P.H.E.)
- TEMPORARY CONSTRUCTION EASEMENT (T.C.E.)
- CONSTRUCTION LIMITS (SL)
- PROPOSED EPOXY URETHANE POLYMER OVERLAY
- SIDEWALK REMOVAL
- PROPOSED SIDEWALK
- PROPOSED MILL/OVERLAY

DISCLAIMER
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STATE OF MISSOURI
BRIAN D. KIERATH JR.
NUMBER PE-2023008624
PROFESSIONAL ENGINEER
04/01/2025 10:40:39 AM
Brian D. Kierath Jr. - Civil
MO PE-2023008624

DATE PREPARED
4/1/2025

ROUTE	STATE
100	MO
DISTRICT	SHEET NO.
SL	24

COUNTY
ST. LOUIS
JOB NO.
J6P3274
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)

GBA
16305 SWINGLEY RIDGE RD
ST. 300
CHESTERFIELD, MO 63017
314.231.0100
GBAteam.com

GEORGE BUTLER ASSOCIATES, INC.
PRO. ENGINEER 000133
ARCHITECT 000212
PRO. LAND SURVEYOR 000059

BRIAN KIERATH
PROFESSIONAL ENGINEER
PE-2023008624

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

SHEET 20 OF 54

PLAN SHEET

MO ROUTE 100
MANCHESTER ROAD

SCALE
0 20 40 60

38
22P220676
13650 MANCHESTER RD.
N/F
RDI HOLDING COMPANY LLC
DB 23930, PG 3562
291 SF P.H.E.
637 SF T.C.E.

37
22P220658
13652 MANCHESTER RD.
N/F
DSJS #1 LLC
DB 21908, PG 4884
43 SF P.H.E.
2,129 SF T.C.E.

36
22P220281
13662 MANCHESTER RD.
N/F
DSJS NO 2 LLC
DB 21908, PG 4890
1,247 SF T.C.E.

32
22P210400
13700 MANCHESTER BLVD
N/F
MANCHESTER CID 1 LLC
DB 235112, PG 2551
329 SF P.H.E.
3,506 SF T.C.E.

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STATE OF MISSOURI
BRIAN D. KIERATH JR.
NUMBER PE-2023008624
PROFESSIONAL ENGINEER
04/01/2025 10:40:40 AM
Brian D. Kierath Jr. - Civil
MO PE-2023008624

DATE PREPARED 4/1/2025
ROUTE 100 | STATE MO
DISTRICT SL | SHEET NO. 25
COUNTY ST. LOUIS
JOB NO. J6P3274
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)

GBA
16305 SWINGLEY RIDGE RD
ST, 300
CHESTERFIELD, MO 63017
314.231.0100
GBAteam.com

GEORGE BUTLER ASSOCIATES, INC.
PRO. ENGINEER 000133
ARCHITECT 000212
PRO. LAND SURVEYOR 000059

BRIAN KIERATH
PROFESSIONAL ENGINEER
PE-2023008624

MATCHLINE STA. 1495+00.00

MATCHLINE STA. 1500+00.00

DRWY
STA. 1496+58.00 LT
25' WIDE PAVED APPROACH (8")
GRADE = 1.0% (6'ADA PATH) / 7.0% AT ℄

DRWY
STA. 1495+90.00 LT
NO IMPROVEMENTS

NEW TYPE S CURB
+76.07
48.73' LT.
EXIST. WATER METER (UIP)
LR PERP RAMP
+41.14
47.48' LT.
EXIST. INLET (UIP)
P.H.E. (TYP.)
+68.56
42.45' LT.
+40.84
41.47' LT.
EXIST. SIGNS (RELOC.)
6' SIDEWALK
EXIST. 12" PIPE (UIP)

LR PERP RAMP
EXIST. SIGN (UIP)
EXIST. GAS MARKER (RELOC. BO)
EXIST. MODOT SIGNAL PULL BOX (ATG)
T.C.E. (TYP.)
EXIST. SPRINKLER (UIP)
EXIST. WATER METER (UIP)
EXIST. SIGN (UIP)
EXIST. LANDSCAPING (UIP)
EXIST. GUY WIRE (UIP)
EXIST. PP (UIP)
LR PERP RAMP
EXIST. GAS VALVES (UIP)
+73.99
45.39' LT.
+68.78
45.28' LT.
+59.48
51.07' LT.
+13.22
57.01' LT.
+13.58
52.02' LT.
EXIST. CURB (UIP)
MODOT ITS
+52.73
65.82' LT.
+45.00
57.28' LT.
+53.99
57.05' LT.
+57.74
52.06' LT.
+60.14
57.05' LT.
NEW TYPE S CURB
+60.00
78.61' LT.
+55.90
79.08' LT.
EXIST. SIGN (UIP)
SR PERP RAMP
EXIST. R/W
MASON LN
S02°37'20"E
EXIST. R/W
+98.16
54.79' LT.
EXIST. PP (UIP)
EXIST. GUY WIRE (UIP)
+07.82
76.69' LT.
+12.67
76.44' LT.
EXIST. MARKER (RELOC.)
EXIST. AT&T-D HH (RELOC.)
EXIST. BOLLARD (RELOC.)
SR PERP RAMP
EXIST. SIGN (RELOC.)
EXIST. R/W
+07.19
54.50' LT.
+12.08
54.36' LT.
+49.13
46.00' LT.
5' SIDEWALK
EXIST. MODOT SIGNAL PULL BOX (UIP)
+11.46
49.37' LT.
+01.09
49.69' LT.
+48.61
41.00' LT.
STA. 5+00.00 MASON LN =
STA 1498+73.45 ROUTE 100
EXIST. MEDIAN (UIP)
EXIST. SIGN (UIP)
PC STA 1498+78.98
96°53'44"

℄ ROUTE 100
MILL/OVERLAY
101°50'10"
90°
90°
90°
96°53'44"
77°09'17"
64°11'06"
75°58'58"

EXIST. 24" PIPE (UIP)
EXIST. PP (UIP)
EXIST. MARKER (UIP)
EXIST. HYDRANT (UIP)
EXIST. 15" PIPE (UIP)
EXIST. CURB (UIP)
EXIST. 15" PIPE (UIP)
EXIST. PULL BOX (UIP)
EXIST. INLET (UIP)
EXIST. PP (UIP)
EXIST. SIGN (UIP)
EXIST. TELE. RISER (UIP)
EXIST. INLET (UIP)
EXIST. 15" PIPE (UIP)
EXIST. INLET (UIP)
EXIST. PP (UIP)
EXIST. PULL BOX (UIP)
EXIST. R/W
EXIST. INLET (UIP)
EXIST. INLET (UIP)
EXIST. 15" PIPE (UIP)
EXIST. WATER VALVE (UIP)
EXIST. SIGN (UIP)
EXIST. 15" PIPE (UIP)
EXIST. R/W
EXIST. R/W
EXIST. INLET (UIP)
EXIST. SIGN (UIP)
EXIST. WATER METER (UIP)

DRWY
STA. 1496+28.00 RT
NO IMPROVEMENTS

DRWY
STA. 1495+58.00 RT
NO IMPROVEMENTS

DRWY
STA. 1497+48.00 RT
NO IMPROVEMENTS

DRWY
STA. 1498+10.00 RT
NO IMPROVEMENTS

DRWY
STA. 1499+18.00 RT
NO IMPROVEMENTS

PROP_100	
PI	1502+90.69
PC	1498+78.98
PT	1506+95.86
△	17°39'42.2" (RT)
D	2°9'43.6"
L	816.88' (ARC)
T	411.70'
R	2,650.00'

35
22P220401
13645 MANCHESTER RD
N/F
CAPCO RECON LLC
DB 24524, PG 2084
SEE SHEET 24

22P220410
13655 MANCHESTER RD
N/F
SPIRIT ENERGY LLCA
DB 11135, PG 2498
NO ACQUISITION

22P220667
13667 MANCHESTER RD
N/F
MANCHESTER & MASON DEVELOPMENT LLC
DB 20212, PG 1350
NO ACQUISITION

PLAN SHEET LEGEND
- EXISTING RIGHT-OF-WAY (EXIST. ROW)
- PERMANENT EASEMENT (P.H.E.)
- TEMPORARY CONSTRUCTION EASEMENT (T.C.E.)
- CONSTRUCTION LIMITS (SL)
- PROPOSED EPOXY URETHANE POLYMER OVERLAY
- SIDEWALK REMOVAL
- PROPOSED SIDEWALK
- PROPOSED MILL/OVERLAY

SHEET 21 OF 54

PLAN SHEET

MO ROUTE 100
MANCHESTER ROAD

SCALE
0 20 40 60

NOTE:
SEE SIGNAL SHEET 3 FOR SIGNAL DESIGN

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32
22P210400
13700 MANCHESTER BLVD
N/F
MANCHESTER CID 1 LLC
DB 235112, PG 2551
SEE SHEET 25

31
22P210419
13720 MANCHESTER BLVD
N/F
K2M PROPERTIES LLC
DB 24018, PG 1023
464 SF P.H.E.
1,735 SF T.C.E.

33
VOID
22P210244
13721 MANCHESTER RD
N/F
13721 MANCHESTER LAND LLC
DB 23138, PG 1089
NO ACQUISITION

34
22P210253
2185 S MASON RD
N/F
BALDRIDGE MASON LLC
DB 21188, PG 394
52 SF T.C.E.

22P210262
2190 S MASON RD
N/F
MASON- MANCHESTER OFFICE BLDG LLC
DB 15860, PG 3217
NO ACQUISITION

MATCHLINE STA. 1500+00.00

MATCHLINE STA. 1505+00.00

S MASON RD

℄ ROUTE 100

EXIST. R/W

PROP. 6" RAISED ISLAND
ISLAND CUT-THROUGH
+13.74
58.83' LT.
COMP PERP RAMP
EXIST. LIGHT POLE (UIP)
+99.38
74.40' LT.
EXIST. SIGN (UIP)
P.H.E. (TYP)
T.C.E. (TYP)
EXIST. PULL BOX (UIP)
EXIST. MARKER (UIP)
TREE (DND)
EXIST. EVERSTREAM HH (RELOC. BO)
EXIST. PULL BOX (UIP)
+69.48
46.00' LT.
EXIST. ISLAND (R)
EXIST. SIGN (RELOC.)
MODOT ITS
PROP. 6" RAISED ISLAND
EXIST. ISLAND (R)
ISLAND CUT-THROUGH
EXIST. SIGN (UIP)
SR PERP RAMP
+95.35
63.04' LT.
EXIST. WATER METER (ATG BO)
EXIST. WATER SERVICE VALVE (ATG BO)
+40.20
62.84' LT.
TREE (DND)
5' SIDEWALK (TYP)
EXIST. SIGN (UIP)
EXIST. SIGN (RELOC.)
+71.39
41.00' LT.
+99.15
67.35' LT.
+10.00
54.80' LT.
+39.79
57.84' LT.
MODOT ITS
EXIST. CURB (UIP)
+58.00
33.86' LT.
+65.00
33.87' LT.
NEW 8' X 7' BUS PAD
STA. 5+00.00 S MASON RD. =
STA. 1503+48.38 ROUTE 100
EXIST. MEDIAN (UIP)
EXIST. SIGN (UIP)
EXIST. SIGN (RELOC.)
+97.42
58.01' LT.
+94.57
54.95' LT.
NEW TYPE S CURB
+90.71
42.19' RT.
MILL/OVERLAY
90°44'14"
EXIST. SIGN (UIP)
EXIST. AT&T-D MH (UIP)
ISLAND CUT-THROUGH
NEW 8'X7' BUS PAD
+82.58
42.22' RT.
EXIST. ISLAND (MODIFY)
EXIST. GAS VALVE (UIP)
EXIST. 12" PIPE (UIP)
+12.67
34.22' RT.
EXIST. 15" PIPE (UIP)
EXIST. MARKER (UIP)
EXIST. PP (UIP)
EXIST. CURB (UIP)
EXIST. SIGN (UIP)
ISLAND CUT-THROUGH
+69.90
33.22' RT.
+96.85
57.47' RT.
SR PERP RAMP
EXIST. PULL BOX (UIP)
EXIST. LIGHT POLE (UIP)
+93.34
61.12' RT.
EXIST. INLET 22P4-025D (UIP)
EXIST. 12" PIPE (UIP)
EXIST. SIGN (UIP)
+99.64
61.37' RT.
EXIST. PP (UIP)
EXIST. GUY WIRE (UIP)
T1 PAR RAMP
R 62'
EXIST. AT&T-D HH (RELOC. BO)
+99.64
67.25' RT.
EXIST. PULL BOX (UIP)
EXIST. INLET 22P4-083D (UIP)
EXIST. SIGN (UIP)
EXIST. PP (UIP)
EXIST. SIGN (UIP)
EXIST. WATER VALVE (UIP)
62' INTEGRAL CURB TYPE A
EXIST. GUY WIRE (UIP)
TREES (DND)
EXIST. R/W
+03.53
64.66' RT.
6' SIDEWALK
EXIST. SAN. MH 22P4-073S (UIP)
EXIST. GAS VALVE (UIP)
EXIST. WATER VALVE (UIP)
EXIST. ISLAND (MODIFY)
EXIST. HYDRANT (UIP)
EXIST. SIGN (UIP)
EXIST. SIDEWALK (UIP)
EXIST. SAN. MH 22P4-072S (UIP)
EXIST. LANDSCAPING (UIP)
EXIST. R/W
EXIST. 12" PIPE (UIP)
EXIST. MCI HH (RELOC. BO)
EXIST. GUY PP (UIP)
EXIST. PP (UIP)
EXIST. SIDEWALK (UIP)
EXIST. PP AND GUY WIRE (UIP)
EXIST. INLET (UIP)
+88.95
63.56' RT.
S00°17'21"E
POT STA 3+00.00

PROP_100	
PI	1502+90.69
PC	1498+78.98
PT	1506+95.86
△	17°39'42.2" (RT)
D	2°9'43.6"
L	816.88' (ARC)
T	411.70'
R	2,650.00'

PLAN SHEET LEGEND
- EXISTING RIGHT-OF-WAY (EXIST. ROW)
- PERMANENT EASEMENT (P.H.E.)
- TEMPORARY CONSTRUCTION EASEMENT (T.C.E.)
- CONSTRUCTION LIMITS (SL)
- PROPOSED EPOXY URETHANE POLYMER OVERLAY
- SIDEWALK REMOVAL
- PROPOSED SIDEWALK
- PROPOSED MILL/OVERLAY

SHEET 22 OF 54

PLAN SHEET

MO ROUTE 100
MANCHESTER ROAD

STATE OF MISSOURI
BRIAN D. KIERATH JR.
NUMBER PE-2023008624
PROFESSIONAL ENGINEER
04/01/2025 10:40:40 AM
Brian D. Kierath Jr. - Civil
MO PE-2023008624

DATE PREPARED
4/1/2025

ROUTE	STATE
100	MO
DISTRICT	SHEET NO.
SL	26

COUNTY
ST. LOUIS
JOB NO.
J6P3274
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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CHESTERFIELD, MO 63017
314.231.0100
GBAteam.com

GEORGE BUTLER ASSOCIATES, INC.
PRO. ENGINEER 000133
ARCHITECT 000212
PRO. LAND SURVEYOR 000059

BRIAN KIERATH
PROFESSIONAL ENGINEER
PE-2023008624

SCALE
0 20 40 60

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.

31

22P210419
13720 MANCHESTER BLVD
N/F
K2M PROPERTIES LLC
DB 24018, PG 1023
SEE SHEET 26

22P210363
13750 MANCHESTER RD
N/F
K2M PROPERTIES LLC
DB 23816, PG 3929
NO ACQUISITION

22P210428
13790 MANCHESTER RD
N/F
WEST COUNTY EMS & FIRE PROTECTION DIST
DB 17890, PG 2057
NO ACQUISITION

MATCHLINE STA. 1505+00.00

MATCHLINE STA. 1510+00.00

DRWY
STA. 1506+34.00 LT
31' WIDE PAVED APPROACH (8")
GRADE = 1.0% (6' ADA PATH)/-1.0% AT ℄

DRWY
STA. 1508+57.00 LT
45' WIDE PAVED APPROACH (8")
GRADE = 1.0% (6'ADA PATH) / 1.0% AT ℄

DRWY
STA. 1509+62.00 LT
NO IMPROVEMENTS

+01.82
44.10' LT.
LR PERP RAMP
EXIST. GUY WIRES (UIP)
EXIST SIGN (UIP)
+07.27
51.73' LT.
T.C.E.
EXIST. LIGHT POLE
+55.16
42.57' LT.
LR PERP RAMP
EXIST. GUY WIRE (UIP)
EXIST. PP (R)
EXIST. PP (UIP)
EXIST. MODOT SIGNAL PULL BOX (ATG)
+29.19
41.79' LT.
EXIST. TELE. RISER (UIP)
MODOT ITS
EXIST. GUY WIRE (UIP)
EXIST. EMERGENCY BEACON (RELOC.)
EXIST. SIGN (UIP)
EXIST. PP (UIP)
EXIST. SAN. MH 22P4-0355 (UIP)
LR PERP RAMP
+39.73
40.95' LT.
NEW TYPE S CURB
EXIST. R/W
R 35'
R 20'
LR PERP RAMP
6' SIDEWALK (TYP)
R 15'
R 15'
+79.79
41.41' LT.
R 12'
R 12'
+82.40
39.37' LT.
+69.00
36.29' LT.
+25.72
43.95' LT.
EXIST. CURB (UIP)
EXIST. EXTENET MINI CELL TOWER (UIP)
NEW TYPE S CURB
EXIST STM MH 22P4-010D (ATG)
+17.43
35.72' LT.
+29.58
35.03' LT.
NEW TYPE S CURB
+91.49
35.32' LT.
EXIST. MODOT SIGNAL PULL BOX (ATG)
LR PERP RAMP
LR PERP RAMP
EXIST. PULL BOX (ATG)
4' SIDEWALK
92°45'57"
90°
PT STA 1506+95.85
℄ ROUTE 100
MILL/OVERLAY
EXIST. MEDIAN (UIP)
EXIST. SIGN (UIP)
86°01'52"
90°
72°44'24"
90°
90°
EXIST. LANDSCAPING (UIP)
EXIST. 15" PIPE (UIP)
EXIST. 15" PIPE (UIP)
EXIST. INLET 22P4-0384D (UIP)
EXIST. AT&T-D MH (UIP)
EXIST. SIGN (UIP)
EXIST. 12" PIPE (UIP)
EXIST. INLET 22P4-084D (UIP)
EXIST. 15" PIPE (UIP)
EXIST. 12" PIPE (UIP)
EXIST. CURB (UIP)
EXIST. INLET 22P4-085D (UIP)
EXIST. INLET 22P4-0383D (UIP)
EXIST. GAS MARKER (UIP)
EXIST. GAS VALVE (UIP)
EXIST. HYDRANT (UIP)
EXIST. PP (UIP)
EXIST. INLET 22P4-086D (UIP)
EXIST. 15" PIPE (UIP)
EXIST. 15" PIPE (UIP)
EXIST. 15" PIPE (UIP)
EXIST. 15" PIPE (UIP)
TREES (DND)
TREE (DND)
EXIST INLET 22P4-0382D (UIP)
EXIST. R/W
EXIST. MARKER (UIP)
EXIST. PP (UIP)
EXIST. PULL BOX (UIP)
EXIST. PP (UIP)
EXIST. GUY WIRE (UIP)
EXIST. INLET (UIP)
EXIST. GAS VALVE (UIP)

DRWY
STA. 1505+41.00 RT
NO IMPROVEMENTS

DRWY
STA. 1506+49.00 RT
NO IMPROVEMENTS

DRWY
STA. 1507+82.00 RT
NO IMPROVEMENTS

DRWY
STA. 1508+70.00 RT
NO IMPROVEMENTS

DRWY
STA. 1509+56.00 RT
NO IMPROVEMENTS

33

22P210244
13721 MANCHESTER RD
N/F
13721 MANCHESTER LAND LLC
DB 23138, PG 1089
75 SF T.C.E

22P210170
13753 MANCHESTER RD
N/F
EZ STORAGE STLC LLC
DB 23260, PG 2804
NO ACQUISITION

22P210217
13775 MANCHESTER RD
N/F
C. EDGAR WEISS BARBARA L. WEISS
LARRY E. WEISS AND LAMCE G.
WEISS TRUSTEES
DB 09479, PG 1195
NO ACQUISITION

PLAN SHEET LEGEND
- EXISTING RIGHT-OF-WAY (EXIST. ROW)
- PERMANENT EASEMENT (P.H.E.)
- TEMPORARY CONSTRUCTION EASEMENT (T.C.E.)
- CONSTRUCTION LIMITS (SL)
- PROPOSED EPOXY URETHANE POLYMER OVERLAY
- SIDEWALK REMOVAL
- PROPOSED SIDEWALK
- PROPOSED MILL/OVERLAY

SHEET 23 OF 54

PLAN SHEET

MO ROUTE 100
MANCHESTER ROAD

STATE OF MISSOURI
BRIAN D. KIERATH JR.
NUMBER PE-2023008624
PROFESSIONAL ENGINEER
04/01/2025 10:40:41 AM
Brian D. Kierath Jr. - Civil
MO PE-2023008624

DATE PREPARED
4/1/2025

ROUTE	STATE
100	MO
DISTRICT	SHEET NO.
SL	27

COUNTY
ST. LOUIS

JOB NO.
J6P3274

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)

GBA
16305 SWINGLEY RIDGE RD
ST, 300
CHESTERFIELD, MO 63017
314.231.0100
GBAteam.com

GEORGE BUTLER ASSOCIATES, INC.
PRO. ENGINEER 000133
ARCHITECT 000212
PRO. LAND SURVEYOR 000059

BRIAN KIERATH
PROFESSIONAL ENGINEER
PE-2023008624

SCALE
0 20 40 60

22P210428
13790 MANCHESTER RD
N/F
WEST COUNTY EMS & FIRE PROTECTION DIST
DB 17890, PG 2057
NO ACQUISITION

22P210143
13826 MANCHESTER RD
N/F
CF SFX JOINT VENTURE LLC
DB 24910, PG 4865
NO ACQUISITION

30
22P120163
13850 MANCHESTER RD
N/F
S H J LLC A MISSOURI LLC
DB 11484, PG 0694
269 SF P.H.E.
4,085 SF T.C.E.

DISCLAIMER
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MATCHLINE STA. 1510+00.00

DRWY
STA. 1510+38.00 LT
32' WIDE PAVED APPROACH (8")
GRADE = 1.0% (6'ADA PATH) / 1.0% AT ℄

EXIST. GAS VALVE (UIP)
4' SIDEWALK
EXIST. EMERGENCY SIGNAL (UIP)
LR PERP RAMP
EXIST. SAN. MH (UIP)
EXIST. TELE. RISER (UIP)
EXIST. PP (UIP)
EXIST. LIGHT POLE (UIP)
EXIST. GUY WIRE (UIP)
EXIST. LIGHT POLE (UIP)
EXIST. R/W
+61.82
40.76' LT.
LR PERP RAMP
MODOT ITS
6' SIDEWALK (TYP)
R 12'
R 25'
R 13'
R 10'
+10.98
34.82' LT.
+19.68
38.85' LT.
+79.50
34.77' LT.
+79.50
34.73' LT.
+28.59
34.89' LT.
+28.12
34.78' LT.
℄ ROUTE 100
MILL/OVERLAY
N81°51'22"W
90°

DRWY
STA. 1512+58.00 LT
34' WIDE PAVED APPROACH (8")
GRADE = 1.0% (6'ADA PATH) / 1.0% AT ℄

+39.07
41.02' LT.
EXIST. CURB (R)
EXIST. GUY WIRES (UIP)
EXIST. SIGN (R)
EXIST. STORM MH (ATG)
LR PERP RAMP
EXIST. POLE (UIP)
EXIST. 30" PIPE (UIP)
+38.37
40.97' LT.
+50.10
34.93' LT.
+91.62
34.79' LT.
+51.97
46.86' LT.
+56.48
52.86' LT.
T.C.E. (TYP)
EXIST. SIGN (RELOC.)
EXIST. MODOT SIGNAL PULL BOX (ATG)

DRWY
STA. 1513+21.00 LT
CLOSED BY OTHERS

EXIST. 30" PIPE (UIP)
EXIST. WATER METER (UIP)
EXIST. WATER VALVE (UIP)
EXIST. WATER METER (UIP)
EXIST. WATER VALVE (UIP)
6' SIDEWALK
+96.05
40.77' LT.

MATCHLINE STA. 1515+00.00

EXIST. PP (UIP)
EXIST. SIGN (UIP)
EXIST. 12" PIPE (UIP)
EXIST. PP (UIP)
EXIST. 12" PIPE (UIP)
EXIST. SPRINKLER (UIP)
EXIST. GUY WIRE (UIP)
EXIST. R/W
EXIST. 12" PIPE (UIP)
EXIST. ELEC. RISER (UIP)
EXIST. PP (UIP)
EXIST. GAS VALVE (UIP)
EXIST. CURB (UIP)
EXIST. 18" PIPE (UIP)
EXIST. INLET (UIP)
EXIST. STORM MH (UIP)
EXIST. 18" PIPE (UIP)
EXIST. SIGN (UIP)
EXIST. PP (UIP)
EXIST. GUY WIRE (UIP)
EXIST. WATER VALVE (UIP)
EXIST. PULL BOX (UIP)
EXIST. SIGN (UIP)
EXIST. FES (UIP)
EXIST. AGGR. DITCH (UIP)
EXIST. WATER VALVE (UIP)
EXIST. HYDRANT (UIP)
EXIST. GUY WIRE (UIP)
EXIST. SIGN (UIP)
EXIST. PP (UIP)

DRWY
STA. 1511+01.00 RT
NO IMPROVEMENTS

DRWY
STA. 1511+77.00 RT
NO IMPROVEMENTS

22P210226
13829 MANCHESTER RD
N/F
13831 MANCHESTER ROAD LLC
DB 13170, PG 2071
NO ACQUISITION

22P120402
13849 MANCHESTER RD
N/F
VANTAGE CREDIT UNION
DB 23970, PG 795
NO ACQUISITION

22P120402
13849 MANCHESTER RD
N/F
VANTAGE CREDIT UNION
DB 23970, PG 795
NO ACQUISITION

25
22P140064
13861 MANCHESTER RD
N/F
INLAND WESTERN TOWN & COUNTRY MANCHESTER
DB 16042, PG 0200
105 SF P.H.E.
365 SF T.C.E.

PLAN SHEET LEGEND
- EXISTING RIGHT-OF-WAY (EXIST. ROW)
- PERMANENT EASEMENT (P.H.E.)
- TEMPORARY CONSTRUCTION EASEMENT (T.C.E.)
- CONSTRUCTION LIMITS (SL)
- PROPOSED EPOXY URETHANE POLYMER OVERLAY
- SIDEWALK REMOVAL
- PROPOSED SIDEWALK
- PROPOSED MILL/OVERLAY

SHEET 24 OF 54

PLAN SHEET

MO ROUTE 100
MANCHESTER ROAD

STATE OF MISSOURI
PROFESSIONAL ENGINEER
BRIAN D. KIERATH JR.
NUMBER PE-2023008624
04/01/2025 10:40:41 AM
Brian D. Kierath Jr. - Civil
MO PE-2023008624

DATE PREPARED
4/1/2025

ROUTE	STATE
100	MO
DISTRICT	SHEET NO.
SL	28

COUNTY
ST. LOUIS

JOB NO.
J6P3274

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

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)

GBA
16305 SWINGLEY RIDGE RD
ST. 300
CHESTERFIELD, MO 63017
314.231.0100
GBAteam.com

GEORGE BUTLER ASSOCIATES, INC.
PRO. ENGINEER 000133
ARCHITECT 000212
PRO. LAND SURVEYOR 000059

BRIAN KIERATH
PROFESSIONAL ENGINEER
PE-2023008624

SCALE
0 20 40 60

30
22P120163
13850 MANCHESTER RD
N/F
S H J LLC A MISSOURI LLC
DB 11484, PG 0694
SEE SHEET 28

30
22P120163
13850 MANCHESTER RD
N/F
S H J LLC A MISSOURI LLC
DB 11484, PG 0694
SEE SHEET 28

29
22P120392
13894 MANCHESTER RD
N/F
WEST COUNTY CAR WASH INC
DB 22894, PG 222
374 P.H.E
944 SF T.C.E.

PROP_100	
PI	1523+21.51
PC	1517+35.68
PT	1528+84.87
△	27°26'5.5" (LT)
D	2°23'14.3"
L	1,149.19' (ARC)
T	585.83'
R	2,400.00'

MATCHLINE STA. 1515+00.00

MATCHLINE STA. 1518+50.00

DRWY
STA. 1515+70.00 LT
40' WIDE PAVED APPROACH (8")
GRADE = 1.0% (6'ADA PATH) / 1.0% AT ℄

EXIST. GUY WIRE (UIP)
+91.10
52.50' LT.
EXIST. PP (UIP)
EXIST. ELEC. RISER (UIP)
LR PERP RAMP
TREES (DND)
EXIST. CURB (UIP)
+43.64
53.12' LT.
LR PERP RAMP
T.C.E. (TYP)
EXIST. AT&T-D HH (RELOC. BO)
MODOT ITS
EXIST. R/W
EXIST. SIGN (RELOC)
NEW TYPE S CURB
EXIST. TELE. RISER (UIP)
EXIST. EVERSTREAM HH (ATG BO)
+31.76
46.88' LT.
R 15'
R 20'
+05.25
46.42' LT.
90°
MILL/OVERLAY
℄ ROUTE 100
EXIST. SIGN (UIP)
6' SIDEWALK (TYP)
EXIST. SIGN (RELOC)
+86.61
52.50' LT.
BUS STOP PAD EXIST. SHELTER (RELOC.)
+71.28
52.50' LT.
EXIST. ELEC. RISER (UIP)
TREES (DND)
PC STA 1517+35.68
+71.29
46.50' LT.
+86.59
46.50' LT.
EXIST. AT&T-D HH (ATG BO)
EXIST. PP (UIP)
EXIST. PP (UIP)
EXIST. GUY WIRE (UIP)
EXIST. SIGN (UIP)
EXIST. PULL BOX (UIP)
EXIST. CURB (UIP)
EXIST. ISLAND (UIP)
EXIST. R/W
EXIST. FES 22P4-157D (UIP)
+46.61
62.29' RT.
EXIST. PP (UIP)
EXIST. GUY WIRES (UIP)
EXIST. GAS MARKER (UIP)
EXIST. 18" PIPE (UIP)
EXIST. DITCH (UIP)
EXIST. INLET 22P4-156D (UIP)
EXIST. STORM MH 22P4-150D (UIP)
EXIST. SIGN (UIP)
DRWY
STA. 1516+79.00 RT
NO IMPROVEMENTS
EXIST. PP (UIP)
EXIST. SIGN (UIP)
EXIST. FES 22P4-158D (UIP)
EXIST. GAS MARKER (UIP)
EXIST. WATER VALVE (UIP)
EXIST. FES 22P4-155D (UIP)
+09.18
62.12' RT.
EXIST. INLET 22P4-148D (UIP)
EXIST. GUY WIRE (UIP)
EXIST. WATER METER (UIP)
EXIST. 27" PIPE (UIP)

25
22P140064
13861 MANCHESTER RD
N/F
INLAND WESTERN TOWN & COUNTRY
MANCHESTER
DB 16042, PG 0200
SEE SHEET 28

PLAN SHEET LEGEND

- EXISTING RIGHT-OF-WAY (EXIST. ROW)
- PERMANENT EASEMENT (P.H.E.)
- TEMPORARY CONSTRUCTION EASEMENT (T.C.E.)
- CONSTRUCTION LIMITS (SL)
- PROPOSED EPOXY URETHANE POLYMER OVERLAY
- SIDEWALK REMOVAL
- PROPOSED SIDEWALK
- PROPOSED MILL/OVERLAY

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STATE OF MISSOURI
BRIAN D. KIERATH JR.
NUMBER PE-2023008624
PROFESSIONAL ENGINEER
04/01/2025 10:40:42 AM
Brian D. Kierath Jr. - Civil
MO PE-2023008624

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

DATE PREPARED
4/1/2025

ROUTE	STATE
100	MO
DISTRICT	SHEET NO.
SL	29

COUNTY
ST. LOUIS
JOB NO.
J6P3274
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)

GBA
16305 SWINGLEY RIDGE RD
ST. 300
CHESTERFIELD, MO 63017
314.231.0100
GBAteam.com

GEORGE BUTLER
ASSOCIATES, INC.
PRO. ENGINEER 000133
ARCHITECT 000212
PRO. LAND SURVEYOR 000059

SHEET 25 OF 54
PLAN SHEET
MO ROUTE 100
MANCHESTER ROAD

BRIAN KIERATH
PROFESSIONAL
ENGINEER
PE-2023008624

SCALE
0 20 40 60

29
22P120392
13894 MANCHESTER RD
N/F
WEST COUNTY CAR WASH INC
DB 22894, PG 222
SEE SHEET 29

28
22P120310
13898 MANCHESTER RD
N/F
J D STREETT & COMPANY INC
DB 23846, PG 4265
337 P.H.E.
1,891 SF T.C.E.

27
22P120383
13920 MANCHESTER RD
N/F
DIETRICH MEADOWS LLC
DB 22894, PG 219
301 SF T.C.E.

25
22P140064
13861 MANCHESTER RD
N/F
INLAND WESTERN TOWN & COUNTRY MANCHESTER
DB 16042, PG 0200
SEE SHEET 28

N_MANCHESTER_MEADOWS

PI	3+80.78
PC	3+22.93
PT	4+35.56
△	32°15'57.9" (RT)
D	28°38'52.2"
L	112.63' (ARC)
T	57.85'
R	200.00'

S_MANCHESTER_MEADOWS

PI	6+98.15
PC	6+17.08
PT	7+71.82
△	42°13'9.5" (LT)
D	27°17'1.1"
L	154.74' (ARC)
T	81.07'
R	210.00'

PROP_100

PI	1523+21.51
PC	1517+35.68
PT	1528+84.87
△	27°26'5.5" (LT)
D	2°23'14.3"
L	1,149.19' (ARC)
T	585.83'
R	2,400.00'

DISCLAIMER
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NOTE:
SEE SIGNAL SHEET 4 FOR SIGNAL DESIGN

DRWY
STA. 1522+12.00 LT
51' WIDE PAVED APPROACH (8")
GRADE = 1.5% (6'ADA PATH) / 4.0% AT ℄

MATCHLINE STA. 1518+50.00
MATCHLINE STA. 1523+00.00

PLAN SHEET LEGEND
- EXISTING RIGHT-OF-WAY (EXIST. ROW)
- PERMANENT EASEMENT (P.H.E.)
- TEMPORARY CONSTRUCTION EASEMENT (T.C.E.)
- CONSTRUCTION LIMITS (SL)
- PROPOSED EPOXY URETHANE POLYMER OVERLAY
- SIDEWALK REMOVAL
- PROPOSED SIDEWALK
- PROPOSED MILL/OVERLAY

SHEET 26 OF 54

PLAN SHEET

MO ROUTE 100
MANCHESTER ROAD

STATE OF MISSOURI
BRIAN D. KIERATH JR.
NUMBER PE-2023008624
PROFESSIONAL ENGINEER
04/01/2025 10:40:43 AM
Brian D. Kierath Jr. - Civil
MO PE-2023008624

DATE PREPARED 4/1/2025
ROUTE 100 | STATE MO
DISTRICT SL | SHEET NO. 30
COUNTY ST. LOUIS
JOB NO. J6P3274
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)

GBA
16305 SWINGLEY RIDGE RD
ST. 300
CHESTERFIELD, MO 63017
314.231.0100
GBAteam.com

GEORGE BUTLER ASSOCIATES, INC.
PRO. ENGINEER 000133
ARCHITECT 000212
PRO. LAND SURVEYOR 000059

BRIAN KIERATH
PROFESSIONAL ENGINEER
PE-2023008624

SCALE
0 20 40 60

CONSTRUCTION NOTE:
IF ANY PART OF THE TOP SLAB IS EXPOSED, THE ROADWAY FILL SHALL BE WARPED TO PROVIDE 12" MINIMUM COVER

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STATE OF MISSOURI
BRIAN D. KIERATH JR.
NUMBER PE-2023008624
PROFESSIONAL ENGINEER
04/01/2025 10:40:43 AM
Brian D. Kierath Jr. - Civil
MO PE-2023008624

DATE PREPARED 4/1/2025
ROUTE 100 | STATE MO
DISTRICT SL | SHEET NO. 31
COUNTY ST. LOUIS
JOB NO. J6P3274
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)

GBA
16305 SWINGLEY RIDGE RD
ST. 300
CHESTERFIELD, MO 63017
314.231.0100
GBAteam.com

GEORGE BUTLER ASSOCIATES, INC.
PRO. ENGINEER 000133
ARCHITECT 000212
PRO. LAND SURVEYOR 000059

BRIAN KIERATH
PROFESSIONAL ENGINEER
PE-2023008624

MATCHLINE STA. 1523+00.00

DRWY
STA. 1523+81.00 LT
40' WIDE PAVED APPROACH (8")

+51.09 73.71' LT.
+46.64 77.93' LT.
+02.99 87.51' LT.
+08.47 90.37' LT.
+75.38 43.50' LT.
+75.38 49.50' LT.
+87.39 43.50' LT.
+56.14 77.53' LT.
+50.26 79.45' LT.

EXIST. ISLAND (UIP)
T1 PAR RAMP
EXIST. SIGN (RELOC.)
EXIST. TREES (UIP)
P.H.E.
EXIST. SIGN (UIP)
T1 PAR RAMP
EXIST. SIGN (UIP)
EXIST. WATER VALVE (ATG)
EXIST. LANDSCAPING (UIP)
MODOT ITS
SR PERP RAMP
R 75'
R 77'
EXIST. R/W
T.C.E. (TYP.)
EXIST. SIGN (UIP)
EXIST. PULL BOX (ATG)
NEW TYPE S CURB
EXIST. SIGN (RELOC.)
EXIST. CURB (UIP)
SR PERP RAMP
R&R (SEE ISLAND AND MEDIAN DETAIL SHEET 3)
5' SIDEWALK
ISLAND CUT-THROUGH
EXIST. BOLLARD (UIP)
EXIST. PULL BOX (ATG)
EXIST. SIGN (RELOC.)
EXIST. SIGN (RELOC.)
90°

1525

TREE (DND)
26
22P120338
13956 MANCHESTER RD
N/F
LENETTE REALTY & INVESTMENT COMPANY
DB 15428. PG 1576
9.164 SF P.H.E.
1.486 SF T.C.E.

EXIST. R/W
EXIST. SIDEWALK (UIP)
EXIST. INLET 22P4-228D (UIP)
EXIST. INLET (UIP)
EXIST. HYDRANT (RELOC.)
EXIST. SIGN (RELOC.)
EXIST. GAS VALVE (ATG)
T1 PAR RAMP
EXIST. GUARDRAIL (R)
EXIST. PP (UIP)
EXIST. ELEC. RISER (UIP)
6' SIDEWALK (TYP)
EXIST. GUY WIRE (UIP)
EXIST. HANDHOLE (UIP)
EXIST. PP (UIP)
EXIST. GUY WIRE (UIP)
P.H.E.
DIETRICH RD
NEW TYPE S CURB
EXIST. SIGN (UIP)
EXIST. SIGN (UIP)
EXIST. R/W
(DND)
R 50'
EXIST. 15" PIPE (UIP)
94°20'59"

8" WATER MAIN (TO BE RELOCATED BY OTHERS)
INSTALL 23.9 CU. YD. TYPE 2 ROCK BLANKET
℄ ROUTE 100 STA. 1526+30.80 TO STA. 1527+48.67 LT
INSTALL 150' MGS GUARDRAIL W/ 1 TYPE A CRASHWORTHY END TERMINAL (MASH) & 1 MGS END ANCHOR

STA. 5+00.00 DIETRICH RD. =
STA. 1527+87.63 ROUTE 100

BRIDGE #A2977
REPLACING BRIDGE #F01822

℄ ROUTE 100
MILL/OVERLAY
EXIST. AT&T-D CABLE
STA 1526+47.15
END MILL/OVERLAY
BEGIN PAVEMENT RECONSTRUCTION
STA 1527+53.12
BEGIN MILL/OVERLAY
END PAVEMENT RECONSTRUCTION
(ABANDON)

℄ ROUTE 100 STA. 1526+55 TO STA. 1527+40.9 RT
INSTALL 87.5' MGS GUARDRAIL
W/ 1 TYPE A CRASHWORTHY END TERMINAL (MASH)
& 1 MGS END ANCHOR

EXIST. GUARDRAIL (R)
TBA BO (ABANDON)
INSTALL 44.2 CU. YD TYPE 2 ROCK BLANKET
AT&T RELOC.
8" WATER MAIN (TO BE RELOC. BO)
AT&T & EVERSTREAM RELOC.
EXIST. FES 22P4-200D (UIP)
EXIST. AT&T-D MH (RELOC.)
EXIST. 36" PIPE (UIP)
EXIST. PP (UIP)
EXIST. GUY WIRE (UIP)
EXIST. SIGN (UIP)
EVERSTREAM (TO BE RELOCATED BY OTHERS)

MATCHLINE STA. 1528+00.00

EXIST. AT&T-D MH (UIP)
EXIST. SIGN (UIP)
EXIST. SLOTTED DRAIN (UIP)
EXIST. INLET 22P4-190D (UIP)
EXIST. 36" PIPE (UIP)
EXIST. R/W
EXIST. PP (UIP)
EXIST. PAVED DITCH (UIP)
EXIST. SAN. MH 22P4-034S (UIP)
EXIST. SAN. MH 22P4-106S (UIP)
EXIST. GUY WIRE (UIP)
EXIST. ISLAND (UIP)
EXIST. WATER VALVE (UIP)
EXIST. GAS METER (UIP)
EXIST. STORM MH 22P4-201D (UIP)
EXIST. PP (UIP)
EXIST. GUY WIRE (UIP)
EXIST. GUY WIRE (UIP)
EVERSTREAM RELOC.
EXIST. CURB (UIP)
EXIST. INLET 22P4-189D (UIP)
EXIST. SPRINKLER (UIP)
EXIST. 36" PIPE (UIP)

DRWY
STA. 1524+56.00 RT
31' WIDE PAVED APPROACH (8")

25
22P140064
13861 MANCHESTER RD
N/F
INLAND WESTERN TOWN & COUNTRY MANCHESTER
DB 16042. PG 0200
SEE SHEET 28

NOTE:
SEE CULVERT ROCK DETAILS SHEET

PLAN SHEET LEGEND
- EXISTING RIGHT-OF-WAY (EXIST. ROW)
- PERMANENT EASEMENT (P.H.E.)
- TEMPORARY CONSTRUCTION EASEMENT (T.C.E.)
- CONSTRUCTION LIMITS (SL)
- PROPOSED EPOXY URETHANE POLYMER OVERLAY
- SIDEWALK REMOVAL
- PROPOSED SIDEWALK
- PROPOSED MILL/OVERLAY

SHEET 27 OF 54

PLAN SHEET

MO ROUTE 100
MANCHESTER ROAD

SCALE
0 20 40 60

MATCHLINE STA. 1528+00.00

22P110218
13960 MANCHESTER RD
N/F
AC MANCHESTER II LLC
DB 16071, PG 2971
NO ACQUISITION

22P110355
13970 MANCHESTER RD
N/F
ENERGY MARKETING 1877 LLC
DB 11521, PG 2075
NO ACQUISITION

22P110364
13970 MANCHESTER RD
N/F
V A D REALTY LLC
DB 22698, PG 43
NO ACQUISITION

EXIST. SIDEWALK (UIP)

DRWY
STA. 1528+80.00 LT
36' WIDE PAVED APPROACH (8")
GRADE = 1.5% (6'ADA PATH) / 4.0% AT ℄

+05.68 61.52' LT.
+11.54 66.83' LT.
+16.91 59.19' LT.
+07.68 56.55' LT.
+11.86 56.60' LT.

EXIST. PP (UIP)
COMP PERP RAMP
EXIST. SIGN (UIP)
5' SIDEWALK
EXIST. RISER (UIP)
EXIST. GUY WIRE (UIP)
+35.21 46.00' LT.
LR PERP RAMP
+58.51 46.00' LT.
R 15'
+46.26 40.00' LT.
NEW TYPE S CURB
+34.90 40.00' LT.
EXIST. INLET 22P4-126D (R)
90°
PT STA 1528+84.87
R 9.5'
LR PERP RAMP
EXIST. GUY WIRE (UIP)
EXIST. LIGHT POLE (UIP)

EXIST. LANDSCAPING (UIP)
EXIST. ELEC. RISER (UIP)
EXIST. PP (UIP)
EXIST. TELE. RISER (UIP)

DRWY
STA. 1529+39.00 LT
31' WIDE PAVED APPROACH (8")
GRADE = 1.5% (6'ADA PATH) / 4.0% AT ℄

MODOT ITS
R 15'
LR PERP RAMP
+70.00
NEW TYPE S CURB
NEW A2 SHOULDER
+24.04
MILL/OVERLAY
S70°42'33"W

1530

6' SIDEWALK (TYP)
EXIST. WATER METER (UIP)
EXIST. WATER VALVE (UIP)

DRWY
STA. 1530+49.00 LT
NO IMPROVEMENTS

EXIST. GUY WIRE (UIP)
EXIST. SIGN (UIP)
EXIST. PP (UIP)
LR PERP RAMP
EXIST. PULL BOX (UIP)
EXIST. EVERSTREAM HH (UIP)
R 15'
R 30'
+80.51
NEW A2 SHOULDER
+01.99
NEW TYPE S CURB

EXIST. PP (UIP)
LR PERP RAMP
EXIST. FES (UIP)
EXIST. GAS VALVE (UIP)

DRWY
STA. 1531+52.00 LT
42' WIDE PAVED APPROACH (8")
GRADE = 1.5% (6'ADA PATH)

EXIST WATER VALVE (UIP)
R 22'
EXIST. FES (UIP)
+95.48
90°

℄ ROUTE 100

MATCHLINE STA. 1532+00.00

EXIST. GUARDRAIL (R)
EXIST. AI&I-D MH (UIP)
EXIST. PP (UIP)
EXIST. SIGN (UIP)
(BURIED)
EXIST. R/W
TREE (DND)
EXIST. HANDHOLE (UIP)
EXIST. SIGN (UIP)
EXIST. PP (UIP)
EXIST. AGGR. DITCH (UIP)

PROP_100	
PI	1523+21.51
PC	1517+35.68
PT	1528+84.87
△	27°26'5.5" (LT)
D	2°23'14.3"
L	1,149.19' (ARC)
T	585.83'
R	2,400.00'

22P110108
13975 MANCHESTER RD
N/F
K2M PROPERTIES LLC
DB 24700, PG 2292
NO ACQUISITION

PLAN SHEET LEGEND
- EXISTING RIGHT-OF-WAY (EXIST. ROW)
- PERMANENT EASEMENT (P.H.E.)
- TEMPORARY CONSTRUCTION EASEMENT (T.C.E.)
- CONSTRUCTION LIMITS (SL)
- PROPOSED EPOXY URETHANE POLYMER OVERLAY
- SIDEWALK REMOVAL
- PROPOSED SIDEWALK
- PROPOSED MILL/OVERLAY

DISCLAIMER
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STATE OF MISSOURI
BRIAN D. KIERATH JR.
NUMBER PE-2023008624
PROFESSIONAL ENGINEER
04/01/2025 10:40:44 AM
Brian D. Kierath Jr. - Civil
MO PE-2023008624

DATE PREPARED
4/1/2025

ROUTE	STATE
100	MO
DISTRICT	SHEET NO.
SL	32

COUNTY
ST. LOUIS
JOB NO.
J6P3274
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)

GBA
16305 SWINGLEY RIDGE RD
ST. 300
CHESTERFIELD, MO 63017
314.231.0100
GBAteam.com

GEORGE BUTLER
ASSOCIATES, INC.
PRO. ENGINEER 000133
ARCHITECT 000212
PRO. LAND SURVEYOR 000059

SHEET 28 OF 54

PLAN SHEET

MO ROUTE 100
MANCHESTER ROAD

BRIAN KIERATH
PROFESSIONAL
ENGINEER
PE-2023008624

SCALE

0 20 40 60

DISCLAIMER
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MATCHLINE STA. 1532+00.00

MATCHLINE STA. 1536+00.00

22P110373
13980 MANCHESTER RD
N/F
V A D REALTY LLC
DB 22698, PG 43
NO ACQUISITION

DRWY
STA. 1532+09.00 LT
NO IMPROVEMENTS

24

22P110281
13986 MANCHESTER RD
N/F
TMJ LLC
DB 18088, PG 1425
909 SF P.H.E.

DRWY
STA. 1533+28.00 LT
42' WIDE PAVED APPROACH (8")
GRADE = 1.5% (6'ADA PATH) / 4.0% AT ℄

23

22P110290
13992 MANCHESTER RD
N/F
CS LOAN POOL V LLC
DB 22266, PG 2613
1,378 SF P.H.E.

DRWY
STA. 1534+75.00 LT
NO IMPROVEMENTS

1535

EXIST. R/W

EXIST. PP (UIP)
EXIST. FES (UIP)
6' SIDEWALK
LR PERP RAMP
MODOT ITS
NEW A2 SHOULDER
NEW TYPE S CURB
+80.85
R 28'
R 28'
+57.10 43.00' LT.
+74.25 37.00' LT.
+86.73 37.00' LT.
+09.80 60.07' LT.
NEW TYPE S CURB
EXIST. SIDEWALK (UIP)
EXIST. PULL BOX (UIP)
SR PERP RAMP
EXIST. TELE. RISER (UIP)
EXIST. PP (UIP)
EXIST. FES (UIP)
EXIST. LIGHT POLE (UIP)
EXIST. SIGN (UIP)
EXIST. GUY WIRE (UIP)
LR PERP RAMP
6' SIDEWALK
EXIST. AGGR. DITCH (UIP)
EXIST. GAS VALVE (UIP)
R 30.5'
R 27.5'
P.H.E. (TYP.)
EXIST. PP (UIP)
EXIST. FES (UIP)
SR PERP RAMP
EXIST. WATER VALVES (UIP)
EXIST. LIGHT POLES (UIP)
TREES (DND)
5' SIDEWALK
EXIST. FES 22P4-250D (UIP)
EXIST. DITCH (UIP)
EXIST. LIGHT POLE (UIP)
EXIST. SIDEWALK (UIP)
MILL/OVERLAY
S70°42'33"W
℄ ROUTE 100
EXIST. SIGN (UIP)
EXIST. INLET (UIP)
EXIST. FES (UIP)
EXIST. WATER VALVE (UIP)
EXIST. R/W
EXIST. 18" PIPE (UIP)
EXIST. FES 22p4-072D (UIP)
EXIST. PP (UIP)
EXIST. SIGN (UIP)
EXIST. CHARTER HH (UIP)
EXIST. MODOT SIGNAL PULL BOX (UIP)
EXIST. INLET (UIP)
EXIST. 18" PIPE (UIP)
EXIST. PULL BOX (UIP)
EXIST. 18" PIPE (UIP)
EXIST. 18" PIPE (UIP)
EXIST. SIGN (UIP)
EXIST. CURB (UIP)
EXIST. WATER VALVE (UIP)
EXIST. HYDRANT (UIP)
EXIST. WATER VALVE(UIP)
EXIST. WATER VALVE (UIP)
EXIST. TELE. RISER (UIP)
EXIST. ELEC. METER (UIP)
EXIST. ELEC. METER (UIP)
EXIST. PP (UIP)
EXIST. WATER VALVE (UIP)
EXIST. WATER METER (UIP)
EXIST. R/W
CONSORT DR

22P110108
13975 MANCHESTER RD
N/F
K2M PROPERTIES LLC
DB 24700, PG 2292
NO ACQUISITION

22P110319
13999 MANCHESTER RD
N/F
BOATMENS NATIONAL BANK OF ST LOUIS THE
DB 09218, PG 0589
NO ACQUISITION

PLAN SHEET LEGEND

- EXISTING RIGHT-OF-WAY (EXIST. ROW)
- PERMANENT EASEMENT (P.H.E.)
- TEMPORARY CONSTRUCTION EASEMENT (T.C.E.)
- CONSTRUCTION LIMITS (SL)
- PROPOSED EPOXY URETHANE POLYMER OVERLAY
- SIDEWALK REMOVAL
- PROPOSED SIDEWALK
- PROPOSED MILL/OVERLAY

STATE OF MISSOURI
BRIAN D. KIERATH JR.
NUMBER PE-2023008624
PROFESSIONAL ENGINEER

04/01/2025 10:40:44 AM
Brian D. Kierath Jr. - Civil
MO PE-2023008624

DATE PREPARED
4/1/2025

ROUTE	STATE
100	MO
DISTRICT	SHEET NO.
SL	33

COUNTY
ST. LOUIS

JOB NO.
J6P3274

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)

GBA
16305 SWINGLEY RIDGE RD
ST. 300
CHESTERFIELD, MO 63017
314.231.0100
GBAteam.com

GEORGE BUTLER ASSOCIATES, INC.
PRO. ENGINEER 000133
ARCHITECT 000212
PRO. LAND SURVEYOR 000059

SHEET 29 OF 54

PLAN SHEET

MO ROUTE 100
MANCHESTER ROAD

BRIAN KIERATH
PROFESSIONAL ENGINEER
PE-2023008624

SCALE
0 20 40 60

PLAN SHEET LEGEND

- EXISTING RIGHT-OF-WAY (EXIST. ROW)
- PERMANENT EASEMENT (P.H.E.)
- TEMPORARY CONSTRUCTION EASEMENT (T.C.E.)
- CONSTRUCTION LIMITS (SL)
- PROPOSED EPOXY URETHANE POLYMER OVERLAY
- SIDEWALK REMOVAL
- PROPOSED SIDEWALK
- PROPOSED MILL/OVERLAY

DISCLAIMER

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STATE OF MISSOURI
JENNIFER L. HUBER
NUMBER PE-2022000257
PROFESSIONAL ENGINEER
03/27/2025 3:14:46 PM
Jennifer Huber - Civil
MO PE-2022000257

DATE PREPARED: 3/27/2025
US ROUTE: 100 | STATE: MO
DISTRICT: SL | SHEET NO.: 34
COUNTY: ST. LOUIS
JOB NO.: J6P3274
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)

CMT
CRAWFORD, MURPHY & TILLY, INC.
ONE MEMORIAL DRIVE, SUITE 500
ST. LOUIS, MO 63102 (314) 436-5500
ENGINEERING CORPORATION - 000631
© Copyright CMT, Inc.

MATCHLINE STA. 1536+00.00

MATCHLINE STA. 1540+75.00

23 END STA 6+87.99
SEE PREVIOUS SHEET FOR PROPERTY INFO

℄ WEIDMAN RD

21
22P110328
101 S WEIDMAN RD
N/F
MCKEE BARNET M REVOCABLE TRUST
DB , PG
(NOT AVAILABLE)
116 SF P.H.E.
465 SF T.C.E.

20
220320052
13998 MANCHESTER RD
N/F
WILLIAMSBURG ENTERPRISES LLC
A MISSOURI
DB 12310, PG 1589
200 SF T.C.E.
43508 SF ORIGINAL
43508 SF ORIGINAL

LOT 2
MCDONALD'S COMMERCIAL CENTER
PB 249 PG 31

19
220320171
14004 MANCHESTER RD
N/F
HALE REAL ESTATE GROUP LLC
DB 20726, PG 726
289 SF T.C.E.
30201 SF ORIGINAL
30201 SF REMAINING

ENTRANCE
1539+24.71 LT.
40.8' WIDE PAVED APPROACH (8" PCC)
GRADE = +1.3% (6' ADA PATH) / +1.1% AT CL

1540

EXIST. LIGHT (UIP)
EXIST. PP (UIP)
EXIST. HH (UIP)
EXIST. SIDEWALK (UIP)
+01.26 47.06' LT
+99.16 52.47' LT
EXIST. PP (UIP)
EXIST. LIGHT (UIP)
5' SIDEWALK
T2 PAR RAMP
EXIST. SIDEWALK (R)
+47.16 73.97' LT
EXIST. SIDEWALK (UIP) P.H.E.
EXIST. R/W
EXIST. SIGN (UIP)
EXIST. C&G (UIP)
+49.98 69.61' LT
+60.81 72.77' LT
+64.89 71.79' LT
EXIST. ISLAND (MODIFY)
ISLAND CUT-THROUGH
EXIST. R/W
MILL/OVERLAY LIMITS
EXIST. LIGHT (UIP)
+97.73 42.32' LT
+93.66 45.23' LT
MODIFIED C&G
EXIST. C&G (R)
SAWCUT
EXIST. SIGN (UIP)
EXIST. ESM'T
EXIST. ESM'T
+75.67 55.70' LT
+73.12 51.45' LT
+78.66 71.36' LT
EXIST. GV (UIP)
+83.40 67.68' LT
EXIST. SIGN (UIP)
EXIST. ISLAND (MODIFY)
ISLAND CUT-THROUGH
+84.95 80.19' LT
+82.11 74.64' LT
+82.95 69.61' LT
EXIST. SIDEWALK (UIP)
T2 PAR RAMP
EXIST. SIDEWALK (R)
EXIST. SIGN (UIP)
EXIST. PP (UIP)
EXIST. LIGHT (UIP)
EXIST. LANDSCAPING (DND)
T.C.E
P.H.E.
SAWCUT
6' SIDEWALK
EXIST. INLET 22Q3-229D
EXIST. AT&T PEDESTAL (RELOC. BY OTHER)
MODIFIED C&G
EXIST. C&G (R)
EXIST. WV (UIP)
SR PERP RAMP
TYPE S CURB
T.C.E
EXIST. SIGN (UIP)
EXIST. WV (UIP)
TYPE S CURB
T.C.E
SR PERP RAMP
MODIFIED C&G
EXIST. C&G (R)
SAWCUT
EXIST. LANDSCAPING (DND)
EXIST. SIGN (UIP)
T.C.E.
EXIST. R/W
T.C.E.
SAWCUT
TYPE S CURB
EXIST. SIGN (RELOC.)
LR PERP RAMP

82°17'31"
STA. 5+00.00 WEIDMAN RD. =
STA. 1537+28.91 ROUTE 100
MILL/OVERLAY
90°
℄ RTE 100

SEE SIGNAL PLANS FOR SIGNAL RELATED ITEMS
5
526°59'56"E
ISLAND CUT-THROUGH
EXIST. SIGN (UIP)
EXIST. PP (UIP)
EXIST. FES 22P4-312D
+81.61 62.38' RT
SR PERP RAMP
+86.19 66.26' RT
EXIST. ISLAND (MODIFY)
EXIST. R/W
EXIST. METERS (UIP)
EXIST. HH (UIP)
EXIST. UTILITY MARKER (UIP)
5' SIDEWALK
EXIST. SIDEWALK (R)
+26.12 52.78' LT
+28.92 48.97' LT
EXIST. SIDEWALK (UIP)
EXIST. GV (UIP)
EXIST. WV (UIP)
T2 PAR RAMP
+11.47 82.47' RT
ISLAND CUT-THROUGH
EXIST. ISLAND (MODIFY)
EXIST. INLET 22Q3-230D
+14.64 78.59' RT
MCI HH (UIP)
EXIST. SIGN (RELOC.)
TYPE B C&G
EXIST. C&G (R)
6' SIDEWALK
EXIST. PP (UIP)
LR PERP RAMP
+37.51 41.30' RT
EXIST. SIGN (RELOC.)
+07.50 41.68' RT
+27.50 41.78' RT
+55.83 47.88' RT
(UIP)
EXIST. PP (UIP)
EXIST. R/W
BUS STOP PAD
EXIST. SHELTER (RELOC.)
EXIST. ESM'T
EXIST. ESM'T
EXIST. SIDEWALK (R)
EXIST. METER (UIP)
TREE (UIP)
EXIST. FH (UIP)
EXIST. INLET 22Q3-001D
EXIST. BUSHES (DND)
EXIST. SIGN (UIP)
+75.66 48.48' RT
+75.00 49.92' RT
R=25'
+68.56 49.97' RT
EXIST. R/W
EXIST. SIGN (UIP)
EXIST. ESM'T
EXIST. ESM'T
EXIST. R/W
EXIST. INLET 22Q3-063D
TREE (DND)
+82.12 58.64' RT
EXIST. LIGHT (UIP)
EXIST. INLET 22Q3-231D
+65.93 55.40' RT
EXIST. ESM'T
+52.48 57.29' RT
R=25'
EXIST. UTILITY MARKER (UIP)
EXIST. HH (ATG)
+39.39 55.60' RT
EXIST. BUSHES (DND)
5' SIDEWALK
EXIST. SIDEWALK (R)
+20.30 47.64' RT
EXIST. SIDEWALK (UIP)
TREE (DND)
+53.15 52.14' RT
EXIST. PP (UIP)
+40.24 50.54' RT
+24.85 44.09' RT
MILL/OVERLAY LIMITS
+20.52 44.00' RT
T.C.E
℄ WEIDMAN RD

SEE PREVIOUS SHEET FOR PROPERTY INFO

ADJUSTED LOT 1
LOTS 1, 3 & 4 OF
REGENCY PARK SUBDIVISION
PB 200 PG 69

22
22Q320209
14001 MANCHESTER RD
N/F
FIRST BANK
DB 8457, PG 1445
178 SF T.C.E.
63020 SF ORIGINAL
63020 SF REMAINING

PARCEL 1
CARAFOIL PLAZA
PB 188 PG 49

SHEET 30 OF 54

PLAN SHEET

ROUTE 100
MANCHESTER ROAD

SCALE
0 20 40 60

LOT 1
MCDONALD'S COMMERCIAL CENTER
PB 249 PG 31

18
220320162
14026 MANCHESTER RD
N/F
DELAWARE MCDONALD'S CORPORATION
DB 7713, PG 1351
148 SF T.C.E.
75872 SF ORIGINAL
75872 SF REMAINING

ENTRANCE
1542+06.97 LT.
64.3' WIDE PAVED APPROACH (8" PCC)
GRADE = +1.0% (6' ADA PATH) / -4.2% AT CL

ENTRANCE
1540+81.15 LT.
64.3' WIDE PAVED APPROACH (8" PCC)
GRADE = +1.5% (6' ADA PATH) / -0.6% AT CL

LOT 1
U.S.I. 100 SUBDIVISION
PB 197 PGS 70 & 71

17
230640171
14086 MANCHESTER RD
N/F
US 1 100 CO
DB 7492, PG 2436
35 SF P.H.E.
3837 SF T.C.E.
433664 SF ORIGINAL
433664 SF REMAINING

ENTRANCE
1543+76.71 LT.
86.6' WIDE PAVED APPROACH (8" PCC)
GRADE = +1.0% (6' ADA PATH) / -10.5 AT CL

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MATCHLINE STA. 1540+75.00

EXIST. LANDSCAPING (DND)
EXIST. LANDSCAPING (DND)
EXIST. LIGHT (UIP)
EXIST. SIGN (UIP)
TREE (UIP)
EXIST. SIGN (UIP)
TREE (UIP)
EXIST. R/W
T.C.E.
T.C.E.
EXIST. SIGN (RELOC.)
EXIST. PB (ATG)
LR PERP RAMP
SAWCUT
6' SIDEWALK
LR PERP RAMP
LR PERP RAMP
4 FT X 2 FT GRATE INLET
SAWCUT
6' SIDEWALK
TYPE S CURB
EXIST. PULL BOX (ATG)
EXIST. METER (UIP)
EX. SIGN (UIP)
EXIST. PP (UIP)
EXIST. EXTENET HH (RELOC. BO)
BUS STOP PAD
EXIST. SHELTER (RELOC.)
T.C.E.
EXIST. GATE (DND)
LR PERP RAMP
EXIST. INLET
NO MSD ID
+77.74
42.93' LT
+97.74
42.92' LT
+96.77
32.58' LT
EXIST. SIGN (RELOC.)
EXIST. MANHOLE
NO MSD ID
95°44'25"
90°
90°
EXIST. FENCE (UIP)
T.C.E
T.C.E
P.H.E.
1545
EXIST. SIGN (UIP)
LR PERP RAMP
FULL DEPTH PAVEMENT
MILL/OVERLAY LIMITS
+56.39
32.55' LT
SAWCUT
6' SIDEWALK
TYPE S CURB
MILL/OVERLAY
℄ RTE 100

MATCHLINE STA. 1546+00.00

MILL/OVERLAY LIMITS
EXIST. SIGN (UIP)
EXIST. MCI HH (UIP)
AT&T-D MH (UIP)
EXIST. INLET 22Q3-006D
EXIST. PP (UIP)
EXIST. PP (UIP)
EXIST. PP (UIP)
EXIST. WV (UIP)
EXIST. R/W
EXIST. R/W
TREE (UIP)
TREE (UIP)
EXIST. PP (UIP)
EXIST. SIGN (UIP)
EXIST. LIGHT (UIP)
EXIST. MANHOLE 22Q3-005D
EXIST. WV (UIP)
EXIST. SIGN (UIP)
EXIST. LIGHT (UIP)
EXIST. MANHOLE 22Q3-016D
EXIST. INLET 22Q3-002D
EXIST. MANHOLE 22Q3-004D
EXIST. ENTRANCE (UIP)
EXIST. INLET 22Q3-003D
EXIST. INLET 22Q3-012D
EXIST. INLET 22Q3-013D
EXIST. MANHOLE 22Q3-015D
EXIST. INLET NO MSD ID

22Q320218
14007 MANCHESTER R
JS CRE MANCHESTER LLC
DB 23800, PG 1854
PARCEL 2
NO ACQUISITION

LOT 2
SUBDIVISION OF PARCEL 3 OF CARAFOIL PLAZA
PB 217 PG 95

PLAN SHEET LEGEND
- EXISTING RIGHT-OF-WAY (EXIST. ROW)
- PERMANENT EASEMENT (P.H.E.)
- TEMPORARY CONSTRUCTION EASEMENT (T.C.E.)
- CONSTRUCTION LIMITS (SL)
- PROPOSED EPOXY URETHANE POLYMER OVERLAY
- SIDEWALK REMOVAL
- PROPOSED SIDEWALK
- PROPOSED MILL/OVERLAY

SHEET 31 OF 54

PLAN SHEET

ROUTE 100
MANCHESTER ROAD

STATE OF MISSOURI
JENNIFER L. HUBER
NUMBER PE-2022000257
PROFESSIONAL ENGINEER
03/27/2025 3:14:58 PM
Jennifer Huber - Civil
MO PE-2022000257

DATE PREPARED
3/27/2025

US ROUTE	STATE
100	MO
DISTRICT	SHEET NO.
SL	35

COUNTY
ST. LOUIS

JOB NO.
J6P3274

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)

CMT
CRAWFORD, MURPHY & TILLY, INC.
ONE MEMORIAL DRIVE, SUITE 500
ST. LOUIS, MO 63102 (314) 436-5500
ENGINEERING CORPORATION - 000631
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SCALE
0 20 40 60

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STATE OF MISSOURI
JENNIFER L. HUBER
NUMBER PE-2022000257
PROFESSIONAL ENGINEER
03/27/2025 3:14:58 PM
Jennifer Huber - Civil
MO PE-2022000257

DATE PREPARED 3/27/2025
US ROUTE 100 | STATE MO
DISTRICT SL | SHEET NO. 36
COUNTY ST. LOUIS
JOB NO. J6P3274
CONTRACT ID.
PROJECT NO.
BRIDGE NO.

DESCRIPTION | DATE

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

MATCHLINE STA. 1546+00.00

17
SEE PREVIOUS SHEET FOR PROPERTY INFO

16
220320043
14100 MANCHESTER RD
N/F
ACERE, LLC
DB 21722, PG 1137
283 SF T.C.E.
15995 SF ORIGINAL
15995 SF REMAINING

ADJUSTED LOT A
BOUNDARY ADJUSTMENT PLAT OF ADJUSTED LOT A IN THE RESUBSDIVISION OF PART OF LOT 3 OF LACY ESTATES
BOUNDARY ADJUSTMENT PLAT
PB 352 PG 805

15
230640683
14116 MANCHESTER RD
N/F
14116 MANCHESTER ROAD,LLC
DB 19704, PG 186
3424 SF T.C.E.
232705 SF ORIGINAL
232705 SF REMAINING

ENTRANCE 1548+65.32 LT. 56.3' WIDE PAVED APPROACH (8" PCC) GRADE = +1.5% (6' ADA PATH) / -5.3% AT CL
ENTRANCE 1549+41.06 LT. 65.2' WIDE PAVED APPROACH (8" PCC) GRADE = +1.5% (6' ADA PATH) / -1.4% AT CL

EXIST. FENCE UIP)
EXIST. WV (UIP)
EXIST. R/W
SERVICE LINE (ATG)
EXIST. SIGN (RELOC.)
SAWCUT
6' SIDEWALK
TYPE S CURB
EXIST. FH (RELOC.)
+51.30 49.27' LT R=25'
+45.24 48.52' LT
EXIST. WV (ATG)
+52.86 44.54' LT
EXIST. UTILITY MARKER (UIP)
EXIST. HH (ATG)
+52.86 42.54' LT
+68.32 53.51' LT
+68.93 48.51' LT
CONCRETE SLOPE PROTECTION
EXIST. PAVEMENT (R)
EXIST. GV, 2 (ATGBO)
+74.55 53.51' LT
EXIST. CHARTER PEDESTAL (UIP)
EXIST. AT&T-D HH (ATG)
+91.56 49.25' LT R=25'
+97.62 48.50' LT
+73.93 48.51' LT
EXIST. PP (UIP)
+90.07 44.51' LT
+90.07 42.51' LT
EXIST. UTILITY MARKER (UIP)
EXIST FENCE (R)
MILL/OVERLAY
TREES (DND)
EXIST. POST (UIP)
T.C.E
LR PERP RAMP
TREE (UIP)
71°44'6"
90°
EXIST. SIDEWALK (R)
SAWCUT
6' SIDEWALK
LR PERP RAMP
TYPE S CURB
EXIST. POST (UIP)
EXIST. LANDSCAPING (DND)
EXIST. SIDEWALK (R)
EXIST. SIGN (UIP)
EXIST. PARKING LOT CURB (UIP)
EXIST. LIGHT (UIP)
EXIST. LIGHT (UIP)
EXIST. LIGHT (UIP)
EXIST. SIDEWALK ADJACENT TO PARKING LOT (DND)
LR PERP RAMP
EXIST. GV (ATGBO)
SAWCUT
6' SIDEWALK
TYPE S CURB
1550
℄ RTE 100

EXIST. PULL BOX (UIP)
EXIST. FH (UIP)
EXIST. AMEREN MH (UIP)
EXIST. MCI HH (UIP)
EXIST. PP (UIP)
EXIST. R/W
EXIST. SIGN (UIP)
EXIST. WV (UIP)
EXIST. INLET 22Q3-009D
EXIST. ENTRANCE (UIP)
EXIST. AT&T-D (UIP)
EXIST. UTILITY MARKER (UIP)
EXIST. FES 22Q3-011D
EXIST. PULL BOX (UIP)
EXIST. PP (UIP)
EXIST. PP (UIP)
EXIST. INLET 22Q3-010D
EXIST. PP (UIP)
EXIST. R/W

EXIST. PIPE END NO MSD ID
EXIST. FES 22Q3-017D
SEE PREVIOUS SHEET FOR PROPERTY INFO

220310042
14101 MANCHESTER RD
JS CRE MANCHESTER LLC
DB 23800, PG 1854
PARCEL 1
NO ACQUISITION

LOT 1
A SUBDIVISION OF PARCEL 3 OF CARAFOIL PLAZA
PB 217 PG 95

220320117
14141 MANCHESTER RD
N/F
JS CRE MANCHESTER LLC
DB 23800, PG 1854
PARCEL 7
NO ACQUISITION

PARCEL 2
CARAFOIL PLAZA
PB 188 PG 49

MATCHLINE STA. 1551+00.00

PLAN SHEET LEGEND
- EXISTING RIGHT-OF-WAY (EXIST. ROW)
- PERMANENT EASEMENT (P.H.E.)
- TEMPORARY CONSTRUCTION EASEMENT (T.C.E.)
- CONSTRUCTION LIMITS (SL)
- PROPOSED EPOXY URETHANE POLYMER OVERLAY
- SIDEWALK REMOVAL
- PROPOSED SIDEWALK
- PROPOSED MILL/OVERLAY

SHEET 32 OF 54

PLAN SHEET

ROUTE 100
MANCHESTER ROAD

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

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ONE MEMORIAL DRIVE, SUITE 500
ST. LOUIS, MO 63102 (314) 436-5500
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SCALE
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STATE OF MISSOURI
JENNIFER L. HUBER
NUMBER PE-2022000257
PROFESSIONAL ENGINEER
03/27/2025 3:14:58 PM
Jennifer Huber - Civil
MO PE-2022000257

DATE PREPARED: 3/27/2025
US ROUTE: 100 | STATE: MO
DISTRICT: SL | SHEET NO.: 37
COUNTY: ST. LOUIS
JOB NO.: J6P3274
CONTRACT ID.:
PROJECT NO.:
BRIDGE NO.:

DESCRIPTION | DATE

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

MATCHLINE STA. 1551+00.00

MATCHLINE STA. 1556+00.00

℄ BRAESHIRE RD

LOT 2
OLD ORCHARD CENTER
PB 309 PGS 35 & 36

14
230630271
14120 MANCHESTER RD
N/F
TAYCO OLD ORCHARLD JUNIOR L C
DB 16499, PG 2678
1261 SF P.H.E.
324 SF T.C.E.
30969 SF ORIGINAL
30969 SF REMAINING

LOT 3
OLD ORCHARD CENTER
PB 309 PGS 35 & 36

13
230630242
14124 MANCHESTER RD
N/F
TAYCO OLD ORCHARLD JUNIOR L C
DB 16499, PG 2678
260 SF P.H.E.
986 SF T.C.E.
24309 SF ORIGINAL
24309 SF REMAINING

15
SEE PREVIOUS SHEET FOR PROPERTY INFO

ENTRANCE
1554+80.84 LT.
54.6' WIDE PAVED APPROACH (8" PCC)
GRADE = -3.3% / -1.5% (5' ADA PATH) / -5.9% AT CL

MILL/OVERLAY LIMITS

EXIST. R/W

EXIST. PP (UIP)

EXIST. LIGHT (UIP)

EXIST. SIDEWALK (UIP)
+87.20 48.55' LT
+80.41 53.83' LT

EXIST. LIGHT (UIP)
T2 PAR RAMP

EXIST. SIDEWALK (R)

EXIST. SIDEWALK ADJACENT TO PARKING LOT (UIP)

EXIST. LIGHT (UIP)

EXIST. PARKING LOT CURB (UIP)

EXIST. LIGHT (UIP)

EXIST. LIGHT (UIP)

T.C.E

+85.14 45.86' LT
+75.41 48.16' LT
+31.92 67.37' LT
+21.17 65.47' LT

EXIST. SIGN (RELOC.)

EXIST. LIGHT (UIP)

SAWCUT
TYPE S CURB
6' SIDEWALK

6" RAISED MEDIAN
EXIST. ISLAND (R)

ISLAND CUT-THROUGH

EXIST. SIGN (UIP)

EXIST. LIGHT (UIP)

EXIST. INLET NO MSD ID (AIG)

S19°42'58"E

EXIST. R/W

EXIST. ESM'T

EXIST. SIGN (UIP)

EXIST. SIGN (UIP)

EXIST. LIGHT (UIP)

TREES (UIP)

EXIST. SIDEWALK (R)

P.H.E.

EXIST. LANDSCAPING (DND)

(DND)

EXIST. SIGN (UIP)

EXIST. EXM'T

EXIST. SIGN (UIP)

EXIST. ESM'T

P.H.E.

EXIST. R/W

+11.84 53.22' LT
+15.99 47.22' LT
+20.71 53.30' LT
+23.92 47.30' LT

6' SIDEWALK
SR PERP RAMP

EXIST. HH (UIP)

EXIST. SIGN (UIP)

EXIST. SIDEWALK (UIP)

EXIST. SIGN (UIP)

EXIST. SIGN (UIP)

EXIST. SIDEWALK (UIP)

EXIST. HH (UIP)

LANDSCAPING RESTORATION

EXIST. PP (UIP)

TREE (UIP)

TREE (UIP)

T.C.E

+10.44 60.60' LT
+10.22 52.98' LT

5' SIDEWALK

EXIST. ESM'T

T.C.E

EXIST. R/W

+05.26 55.60' LT

+04.97 42.03' LT
+09.97 41.98' LT
+30.12 41.81' LT

LR PERP RAMP
TYPE S CURB
6' SIDEWALK
EXIST. WV (UIP)
GUY POLE (UIP)
EXIST. METER (UIP)

BUS STOP PAD
EXIST. SHELTER (RELOC.)

STA. 5+00.00 S. BRAESHIRE DR. =
STA. 1552+87.26 ROUTE 100

STA. 5+00.00 N. BRAESHIRE DR.
STA. 1552+96.78 ROUTE 100

MILL/OVERLAY

125°6'53"

90°

76°9'0"

℄ RTE 100

SEE SIGNAL PLANS FOR SIGNAL RELATED ITEMS

T1 PAR RAMP
+59.63 41.88' RT
EXIST. GV (ATG)

+53.63 41.85' RT

6' SIDEWALK
SAWCUT
+77.51 47.57' RT

T1 PAR RAMP
+82.78 53.55' RT

EXIST. CHARTER HH (UIP)

EXIST. HEADWALL 2203-228D (DND)

TREE (UIP)

EXIST. R/W

EXIST. PP (UIP)

EXIST. INLET 2203-219D

EXIST. MANHOLE 2203-216D

EXIST. AT&T-D HH (UIP)

EXIST. LIGHT (UIP)

R=15'

+50.54 48.82' RT

SR PERP RAMP

+47.20 53.22' RT

+75.39 40.04' RT
+74.99 38.12' RT

R=25'
+90.37 41.29' RT

EXIST. FES 2203-222D

EXIST. SIGN (UIP)
TYPE S CURB
6' SIDEWALK
EXIST. PAVEMENT (R)
SAWCUT

TYPE 2 ROCK DITCH LINER W/ EROSION CONTROL GEOTEXTILE
+03.01 35.02' RT
+02.67 41.02' RT

EXIST. SIGN (RELOC.)

+49.85 40.14' RT
+49.30 46.14' RT

EXIST. PP (UIP)

EXIST. SIGN (UIP)

EXIST. PP (UIP)

REGRADED DITCH

TREE (UIP)

+75.31 46.38' RT
EXIST. FH (UIP)

EXIST. INLET 2203-221D

EXIST. LIGHT (UIP)

EXIST. AMEREN MH (UIP)

MILL/OVERLAY LIMITS

TREE (UIP)

EXIST. WV (UIP)

EXIST. WALL (UIP)

EXIST. METER (UIP)

TREE (UIP)

EXIST. LIGHT (UIP)

TREE (UIP)

TREE (UIP)

EXIST. R/W

TREE (UIP)

S33°08'28"E

EXIST. MANHOLE 2203-215D (UIP)

EXIST. MANHOLE NO MSD ID (UIP)

SEE PREVIOUS SHEET FOR PROPERTY INFO

SEE SHEET 35 FOR PROPERTY INFO

SEE NEXT SHEET FOR PROPERTY INFO

℄ BRAESHIRE RD

PLAN SHEET LEGEND
- EXISTING RIGHT-OF-WAY (EXIST. ROW)
- PERMANENT EASEMENT (P.H.E.)
- TEMPORARY CONSTRUCTION EASEMENT (T.C.E.)
- CONSTRUCTION LIMITS (SL)
- PROPOSED EPOXY URETHANE POLYMER OVERLAY
- SIDEWALK REMOVAL
- PROPOSED SIDEWALK
- PROPOSED MILL/OVERLAY

SHEET 33 OF 54

PLAN SHEET

ROUTE 100
MANCHESTER ROAD

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

CMT
CRAWFORD, MURPHY & TILLY, INC.
ONE MEMORIAL DRIVE, SUITE 500
ST. LOUIS, MO 63102 (314) 436-5500
ENGINEERING CORPORATION - 000631
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SCALE
0 20 40 60

LOT 1
OLD ORCHARD CENTER
PB 309 PGS 35 & 36

23Q630194
1250 OLD ORCHARD CTR
TAYCO OLD ORCHARLD JUNIOR L C
DB 16499, PG 2678
NO ACQUISITION

LOT 4
OLD ORCHARD CENTER
PB 309 PGS 35 & 36

12

23Q630224
14128 MANCHESTER RD
N/A
TAYCO OLD ORCHARLD JUNIOR L C
DB 16499, PG 2678
422 SF T.C.E.
24453 SF ORIGINAL
24453 SF REMAINING

SEE NEXT SHEET FOR PROPERTY INFO

ENTRANCE
1556+08.52 LT.
65.0' WIDE PAVED APPROACH (8" PCC)
GRADE = -1.0% (6' ADA PATH) / -7.2% AT CL

MATCHLINE STA. 1556+00.00

EXIST. SIGNS (UIP)
EXIST. SIGN (UIP)
EXIST. ESM'T
TREE (UIP)
EXIST. ESM'T
EXIST. METER (UIP)
EXIST. PP (UIP)
EXIST. SIGN (UIP)
TREE (UIP)
TREE (UIP)
TYPE 2 ROCK DITCH LINER W/ EROSION CONTROL GEOTEXTILE
1560
TREE (UIP) TREE (UIP) TREE (UIP) TREE (UIP)
EXIST. R/W
T.C.E
EXIST. R/W
+84.70 42.58' LT
+92.04 42.89' LT
TREES (UIP)
TREE (UIP)
TREE (UIP)
LR PERP RAMP
+85.72 48.95' LT
+85.38 42.95' LT
EXIST. WM (UIP)
+40.96 42.46' LT
+40.62 36.46' LT
SIDEWALK HAND-RAILING WITH BALUSTERS
SAWCUT
6' SIDEWALK
EXIST. PAVEMENT (R)
TYPE S CURB
+63.43 43.38' LT
+63.70 37.38' LT
EXIST. PB (ATG)
EXIST. PULL BOX (ATG)
MILL/OVERLAY
90°
℄ RTE 100

BUS STOP PAD
+15.84 40.88' RT
+24.87 40.98' RT
+25.01 46.98' RT
+74.37 35.10' RT
+74.68 41.10' RT
+98.84 40.80' RT
EXIST. AT&T-D MH (RELOC. BO)
6' SIDEWALK
REGRADED DITCH
EXIST. TMH (ATG)
(ATG)
(UIP)
REGRADED DITCH
EXIST. PP (UIP)
EXIST. PP (UIP)
EXIST. GV (UIP)
TREE (UIP) TREE (UIP) TREE (UIP) TREE (UIP) TREE (UIP) TREE (UIP) TREE (UIP) TREE (UIP) TREE (UIP) TREE (UIP) TREE (UIP) TREE (UIP) TREE (UIP) TREE (UIP) TREE (UIP)
EXIST. R/W
EXIST. R/W
EXIST. LIGHT (UIP)
EXIST. GV (UIP)
EXIST. LIGHT (UIP)
EXIST. LIGHT (UIP)
EXIST. LIGHT (UIP)
EXIST. SIGN (UIP)

MATCHLINE STA. 1561+00.00

22Q310116
14169 MANCHESTER RD
N/A
MANCHESTER COMMONS LLC
DB 13744, PG 417
NO ACQUISITION

LOT B
MANCHESTER COMMONS
PB 350 PG 167

SEE NEXT SHEET FOR PROPERTY INFO

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PLAN SHEET LEGEND
- EXISTING RIGHT-OF-WAY (EXIST. ROW)
- PERMANENT EASEMENT (P.H.E.)
- TEMPORARY CONSTRUCTION EASEMENT (T.C.E.)
- CONSTRUCTION LIMITS (SL)
- PROPOSED EPOXY URETHANE POLYMER OVERLAY
- SIDEWALK REMOVAL
- PROPOSED SIDEWALK
- PROPOSED MILL/OVERLAY

SHEET 34 OF 54

PLAN SHEET

ROUTE 100
MANCHESTER ROAD

STATE OF MISSOURI
JENNIFER L. HUBER
NUMBER PE-2022000257
PROFESSIONAL ENGINEER
03/27/2025 3:14:58 PM
Jennifer Huber - Civil
MO PE-2022000257

DATE PREPARED 3/27/2025
US ROUTE 100 | STATE MO
DISTRICT SL | SHEET NO. 38
COUNTY ST. LOUIS
JOB NO. J6P3274
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)

CMT
CRAWFORD, MURPHY & TILLY, INC.
ONE MEMORIAL DRIVE, SUITE 500
ST. LOUIS, MO 63102 (314) 436-5500
ENGINEERING CORPORATION - 000631
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SCALE
0 20 40 60

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STATE OF MISSOURI
JENNIFER L. HUBER
NUMBER PE-2022000257
PROFESSIONAL ENGINEER
03/27/2025 3:14:58 PM
Jennifer Huber - Civil
MO PE-2022000257

DATE PREPARED: 3/27/2025
US ROUTE: 100 | STATE: MO
DISTRICT: SL | SHEET NO.: 39
COUNTY: ST. LOUIS
JOB NO.: J6P3274
CONTRACT ID.:
PROJECT NO.:
BRIDGE NO.:

DESCRIPTION | DATE

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

MATCHLINE STA. 1561+00.00

OLD ORCHARD VILLAGE PLAY THREE
PB 152 PGS 42 & 43

10
VOID
23Q630114
1204 KNOLLHAVEN DR
N/F
ORCHARD VILLAGE
KNOLLHAVEN LLC
DB 21702, PG 375

END STA 6+23.69
℄ KNOLLHAVEN RD
TREES (UIP)
BUS STOP PAD
EXIST. R/W
EXIST. LANDSCAPING (DND)
TREE (UIP)
ROCK (R)
SR PERP RAMP
6' SIDEWALK
SAWCUT
5' SIDEWALK
TYPE S CURB
EXIST. PAVEMENT (R)
SEE SIGNAL PLANS FOR SIGNAL RELATED ITEMS
EXIST. LANDSCAPING (DND)
EXIST. EXTENET HH (UIP)
EXIST. PP (UIP)
EXIST. FH (UIP)
EXIST. PP (UIP)
MILL/OVERLAY
TYPE B C&G (MODIFIED)
EXIST. C&G (R)
LR PERP RAMP
PC STA 1565+38.72
1565
5
STA. 5+00.00 KNOLLHAVEN LN. =
STA. 1563+18.05 ROUTE 100
℄ RTE 100
90°
S19°17'27"E
TYPE S CURB
6' SIDEWALK
EXIST. PAVEMENT (R)
SAWCUT
REGRADED DITCH
EXIST. INLET 23Q2-291D
EXIST. FES 23Q2-288D
SR PERP RAMP
5' SIDEWALK
R=25'
EXIST. PP (UIP)
EXIST. GV (UIP)
EXIST. R/W
EXIST. LIGHT (UIP)
BUSHES (DND)
EXIST. FH (UIP)
T.C.E
EXIST. TRENCH DRAIN 23Q2-282D
EXIST. INLET 23Q2-290D
EXIST. FES 23Q2-289D
EXIST. AT&T-D MH (UIP)
EXIST. PB (UIP)
EXIST. WV (UIP)
EXIST. GV (UIP)
SR PERP RAMP
EXIST. FES 23Q2-277D
R=20'
EXIST. WV (ATG)
EXIST. PP (UIP)
EXIST. AMEREN MH (ATG BO)
EXIST. PP (UIP)
EXIST. SIGN (UIP)
EXIST. MANHOLE 23Q2-281D
EXIST. MANHOLE 23Q2-278D
EXIST. SAN. MH 23Q2-205S
EXIST. LIGHT (UIP)
R=10'

11
23Q630260
14177 MANCHESTER RD
N/F
LZB FURNITURE GALLERIES OF ST LOUIS INC
DB 13744, PG 429
323 SF T.C.E.
65259 SF ORIGINAL
65259 SF REMAINING
LOT A
MANCHESTER COMMONS
PB 350 PG 167

22Q310093
14161 MANCHESTER RD
N/F
MENARD INC
DEEDBKPG 20152-1941
NO ACQUISITION

22Q220136
OLIVE STREET ROAD LLC
14167 MANCHESTER RD
DEEDBKPG 17103-4386
NO ACQUISITION

LOT 1
LOT SPLIT
PB 272 PGS 36 & 37

ENTRANCE
1565+86.51 LT.
92.7' WIDE PAVED APPROACH (8" PCC)
GRADE = +1.0% (6' ADA PATH) / +1.0% AT CL

SEE NEXT SHEET FOR PROPERTY INFO

SHEET 35 OF 54

MATCHLINE STA. 1566+00.00

PLAN SHEET LEGEND
- EXISTING RIGHT-OF-WAY (EXIST. ROW)
- PERMANENT EASEMENT (P.H.E.)
- TEMPORARY CONSTRUCTION EASEMENT (T.C.E.)
- CONSTRUCTION LIMITS (SL)
- PROPOSED EPOXY URETHANE POLYMER OVERLAY
- SIDEWALK REMOVAL
- PROPOSED SIDEWALK
- PROPOSED MILL/OVERLAY

PLAN SHEET

ROUTE 100
MANCHESTER ROAD

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

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SCALE
0 20 40 60

PLAN SHEET LEGEND

- EXISTING RIGHT-OF-WAY (EXIST. ROW)
- PERMANENT EASEMENT (P.H.E.)
- TEMPORARY CONSTRUCTION EASEMENT (T.C.E.)
- CONSTRUCTION LIMITS (SL)
- PROPOSED EPOXY URETHANE POLYMER OVERLAY
- SIDEWALK REMOVAL
- PROPOSED SIDEWALK
- PROPOSED MILL/OVERLAY

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JENNIFER L. HUBER
NUMBER PE-2022000257
PROFESSIONAL ENGINEER
03/27/2025 3:14:56 PM
Jennifer Huber - Civil
MO PE-2022000257

DATE PREPARED: 3/27/2025
US ROUTE: 100 | STATE: MO
DISTRICT: SL | SHEET NO.: 40
COUNTY: ST. LOUIS
JOB NO.: J6P3274
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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9
230540538
14196 MANCHESTER RD
N/F
CHOI CHI WOONG & BONG HI
H/W ETAL
DB 21170, PG 1503
27 SF P.H.E.
101 SF T.C.E.
45076 SF ORIGINAL
45076 SF REMAINING

230540785
14180 MANCHESTER RD
N/F
POKRES FAMILY LIMITED PARTNERSHIP THE
DB 10763, PG 754
NO ACQUISITION

230540749
14188 MANCHESTER RD
N/F
POKRES FAMILY LIMITED PARTNERSHIP
DB 16711, PG 1552
NO ACQUISITION

ENTRANCE
1566+06.80 LT.
54.6' WIDE PAVED APPROACH (8" PCC)
GRADE = +1.5% (6' ADA PATH) / -1.2% AT CL

ENTRANCE
1567+78.10 LT.
74.8' WIDE PAVED APPROACH (8" PCC)
GRADE = -6.0% / -1.5% (5' ADA PATH) / -7.8% AT CL

℄ ENCHANTED PKWY
PT STA 6+02.35
S00°28'44"E
PC STA 5+65.45
T.C.E
1570
EXIST. R/W
EXIST. SIDEWALK (R)
EXIST. SIDEWALK (UIP)
EXIST. SIGN (UIP)
SEE NEXT SHEET FOR PROPERTY INFO
TREE (UIP)
EXIST. ESM'T
EXIST. BUSHES (DND)
EXIST. SIDEWALK (UIP)
P.H.E.
EXIST. SIGN (UIP)
EXIST. SIGN (UIP)
R=25'
P.H.E.
+53.63 56.01' LT
+36.21 59.00' LT
+27.51 58.94' LT
+61.16 58.85' LT
EXIST. CURB (UIP)
5' SIDEWALK
EXIST. LIGHT (UIP)
EXIST. R/W
+46.79 54.23' LT
EXIST. SIGN (UIP)
EXIST. PP (UIP)
EXIST. WV (UIP)
EXIST. SIGNS (UIP)
EXIST. LIGHT (UIP)
EXIST. R/W
(UIP)
T1 PAR RAMP
+56.05 49.95' LT
+54.37 44.61' LT
+06.16 50.11' LT
+06.19 45.11' LT
SR PERP RAMP
EXIST. SIGN (UIP)
EXIST. C&G (UIP)
+47.11 49.23' LT
R=25'
+76.49 59.14' LT
+75.95 54.14' LT
SR PERP RAMP
+66.88 40.32' LT
+61.96 38.07' LT
EXIST. UTILITY MARKER (UIP)
+55.68 51.48' LT
+57.75 52.46' LT
+46.32 47.35' LT
EXIST. GV (UIP)
+33.04 53.94' LT
SR PERP RAMP
+38.04 54.00' LT
MILL/OVERLAY LIMITS
EXIST. PP (UIP)
5' SIDEWALK
EXIST. CURB (UIP)
EXIST. INLET 2302-235D
EXIST. MANHOLE 2302-234D
EXIST. R/W
SAWCUT
TYPE B C&G
EXIST. C&G (R)
6' SIDEWALK
LR PERP RAMP
EXIST. INLET NO MSD ID
℄ RTE 100
85°43'24"
5
SEE SIGNAL PLANS FOR SIGNAL RELATED ITEMS
87°53'22"
STA. 5+00.00 ENCHANTED PKWY. = STA. 1569+99.03 ROUTE 100
EXIST. SIGN (UIP)
EXIST. MEDIAN (UIP)
EXIST. WV (UIP)
MILL/OVERLAY LIMITS
EXIST. INLET 2302-232D
EXIST. ISLAND (UIP)
EXIST. SIGN (UIP)
EXIST. SAN. MH 2302-122S
EXIST. PP (UIP)
EXIST. R/W
EXIST. INLET 2302-224D
EXIST. FH (UIP)
EXIST. WV (UIP)
EXIST. LANDSCAPING (DND)
EXIST. SIGN (UIP)
EXIST. INLET 2302-225D
EXIST. INLET 2302-226D
SEE NEXT SHEET FOR PROPERTY INFO
MATCHLINE STA. 1566+00.00
MATCHLINE STA. 1571+00.00
+20.97 52.00' RT
+20.96 39.78' RT
MILL/OVERLAY LIMITS
BUS STOP PAD
+28.12 39.67' RT
SIGN (UIP)
+28.23 51.56' RT
TYPE S CURB
EXIST. CURB (R)
EXIST. SIGN (UIP)
EXIST. INLET 2302-154D
EXIST. PULL BOX (UIP)
EXIST. SIGN (R&R)
EXIST. INLET 2302-153D
SAWCUT
5' SIDEWALK
SR PERP RAMP
EXIST. INLET 2302-155D
+62.10 49.38' RT
T1 PAR RAMP
+09.53 50.24' RT
+28.23 54.38' RT
+07.58 55.24' RT
EXIST. MANHOLE 2202-236D
EXIST. INLET 2202-237D
6' SIDEWALK
TYPE S CURB
EXIST. CURB (R)
SAWCUT
T1 PAR RAMP
ISLAND CUT-THROUGH
EXIST. SIGN (UIP)
EXIST. ISLAND (MODIFY)
+44.16 60.80' RT
EXIST. SIGN (RELOC.)
+48.09 64.04' RT
T1 PAR RAMP
S03°12'25"E
EXIST. PP (UIP)
EXIST. PP (UIP)
EXIST. METER (UIP)
EXIST. SAN. MH 2302-197S
EXIST. PP (UIP)
EXIST. R/W
EXIST. INLET 2202-228D
EXIST. LIGHT (UIP)
EXIST. INLET 2202-227D
EXIST. PP (UIP)
EXIST. BRICK (R)
EXIST. WV (UIP)
EXIST. SAN. MH 2302-099S
EXIST. SAN. MH 2302-100S
EX. PP (UIP)
EX. SIGN (UIP)
TREES (UIP)
EXIST. SAN. MH 2302-0214S
EXIST. R/W
230540767
14181 MANCHESTER RD A
N/F
LAND WEST #1 LLC
DB 15603, PG 38
PARCEL 3
NO ACQUISITION
230540767
14181 MANCHESTER RD
N/F
LAND WEST #1 LLC
DB 15603, PG 38
PARCEL 1
NO ACQUISITION
230540767 14181 MANCHESTER RD A N/F LAND WEST #1 LLC DB 15603, PG 38 PARCEL 2 NO ACQUISITION
ENTRANCE
1567+95.57 RT.
67.6' WIDE PAVED APPROACH (8" PCC)
GRADE = +1.3% / +1.5% (5' ADA PATH) / +1.8% AT CL
230540794
14193 MANCHESTER RD
N/F
AUTOZONE INC
DB 1189, PG 77
LOT B2
HOMEQUARTERS SUBDIVISION
PB 345 PGS 36 & 37
NO ACQUISITION
MANCHESTER HEIGHTS
PB 19 PG 25

SHEET 36 OF 54

PLAN SHEET

ROUTE 100
MANCHESTER ROAD

SCALE
0 20 40 60

8
230540345
14200 MANCHESTER RD
N/F
REGIONS BANK
DB 21944, PG 2071
1794 SF P.H.E.
41897 SF ORIGINAL
41897 SF REMAINING

230540886
14240 MANCHESTER RD
N/F
EXTREME ST. LOUIS CHARITABLE FOUNDATION THE COFFEE SHOP BUILDING
DB 22182, PG 2439
PARCEL 3

7
230540877
14206 MANCHESTER RD
N/F
LLS HOLDINGS LLC
DB 19844, PG 3250
PARCEL 3
345 SF P.H.E.
194501 SF ORIGINAL
194501 SF REMAINING

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MATCHLINE STA. 1571+00.00

MATCHLINE STA. 1576+00.00

EXIST. ESM'T
EXIST. ESM'T
EXIST. ESM'T
EXIST. ESM'T
EXIST. ESM'T
EXIST. LIGHT (UIP)
EXIST. BUSHES (DND)
EXIST. SIGN (UIP)
P.H.E.
EXIST. R/W
EXIST. C&G (UIP)
EXIST. SIDEWALK (UIP)
EXIST. ENTRANCE (UIP)
EXIST. SIDEWALK (UIP)
EXIST. WV (UIP)
EXIST. WV (UIP)
EXIST. PP (UIP)
EXIST. FH (UIP)
EXIST. SIGN (UIP)
PT STA 1572+32.44
EXIST. LIGHT (UIP)
EXIST. SIGN (UIP)
EXIST. PULL BOX (UIP)
EXIST. TMH (UIP)
EXIST. PP (UIP)
EXIST. C&G (UIP)
EXIST. ESM'T
EXIST. PP (UIP)
EXIST. SIGN (UIP)
EXIST. UTILITY MARKER (UIP)
EXIST. PULL BOX (UIP)
EXIST. INLET 23Q2-229D (UIP)
1575
EXIST. R/W
EXIST. ESM'T
EXIST. SIGN (UIP)
EXIST. LANDSCAPING (DND)
EXIST. R/W
(UIP)
EXIST. ENTRANCE (UIP)
EXIST. SIGN (UIP)
EXIST. SIGN (UIP)
EXIST. MEDIAN (UIP)
℄ RTE 100
EXIST. MANHOLE 23Q2-230D (UIP)
EXIST. WV (UIP)
EXIST. TMH (UIP)
EXIST. C&G (UIP)
EXIST. INLET 23Q2-327D (UIP)
EXIST. INLET 23Q2-326D (UIP)
EXIST. ENTRANCE (UIP)
EXIST. INLET 23Q2-323D (UIP)
EXIST. C&G (UIP)
EXIST. FH (UIP)
EXIST. PP (UIP)
EXIST. SAN. MH 23Q2-103S (UIP)
EXIST. PP (UIP)
EXIST. TMH (UIP)
EXIST. CHARTER HH (UIP)
EXIST. TMH (UIP)
EXIST. LIGHT (UIP)
EXIST. R/W
EXIST. INLET 23Q2-223D (UIP)
EXIST. SAN. MH 23Q2-104S (UIP)
EXIST. LIGHT (UIP)
EXIST. SAN. MH 23Q2-105S (UIP)
EXIST. R/W
EXIST. MANHOLE 23Q2-325D (UIP)
EXIST. R/W
EXIST. WM (UIP)
EXIST. WV (UIP)
EXIST. FH (UIP)
EXIST. INLET 23Q2-322D (UIP)
EXIST. SAN. MH 23Q2-211S (UIP)
EXIST. MANHOLE 23Q2-245D (UIP)
EXIST. INLET 23Q2-241D (UIP)

22Q220347
14201 MANCHESTER RD
N/F
HDX ACQUISITION, LLC
DB 19184, PG 1592
NO ACQUISITION

RE-ADJUSTED LOT B1
BOUNDARY ADJUSTMENT PLAT
PB 359 PG 230

23Q540859
14231 MANCHESTER RD
N/F
EAGLE BANK AND TRUST COMPANY OF MISSOURI
DB 17798, PG 3449
NO ACQUISITION

23Q540868
14229 MANCHESTER RD
N/F
EAGLE BANK AND TRUST COMPANY OF MISSOURI
DB 17798, PG 3449
NO ACQUISITION

LOT 8
MANCHESTER HIGHLANDS PLAT TWO
PB 356 PG 96

PLAN SHEET LEGEND
- EXISTING RIGHT-OF-WAY (EXIST. ROW)
- PERMANENT EASEMENT (P.H.E.)
- TEMPORARY CONSTRUCTION EASEMENT (T.C.E.)
- CONSTRUCTION LIMITS (SL)
- PROPOSED EPOXY URETHANE POLYMER OVERLAY
- SIDEWALK REMOVAL
- PROPOSED SIDEWALK
- PROPOSED MILL/OVERLAY

SHEET 37 OF 54

PLAN SHEET

ROUTE 100
MANCHESTER ROAD

STATE OF MISSOURI
JENNIFER L. HUBER
NUMBER PE-2022000257
PROFESSIONAL ENGINEER
03/27/2025 3:14:59 PM
Jennifer Huber - Civil
MO PE-2022000257

DATE PREPARED
3/27/2025

US ROUTE	STATE
100	MO
DISTRICT	SHEET NO.
SL	41

COUNTY
ST. LOUIS

JOB NO.
J6P3274

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DESCRIPTION	DATE

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ST. LOUIS, MO 63102 (314) 436-5500
ENGINEERING CORPORATION - 000631
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SCALE
0 20 40 60

ADJUSTED LOT A2
LOT CONSOLIDATION PLAT OF LOT A2 OF THERESUBDIVISION OF LOT A OF MALAN PLAZA AS RECORDED IN PLAT BOOK 350 PAGE 108 AND LOT B OF MALAN PLAZA PB 363 PG 515
23Q530720
14244 MANCHESTER RD
N/F
UE MANCHESTER LLC
DB 22542, PG 699
NO ACQUISITION

23Q540886
14240 MANCHESTER RD
N/F
EXTREME ST. LOUIS CHARITABLE FOUNDATION THE COFFEE SHOP BUILDING
DB 22182, PG 2439
PARCEL 2
23Q540877
14206 MANCHESTER RD
N/F
LLS HOLDINGS LLC
DB 19844, PG 3250
PARCEL 2
NO ACQUISITION

LOT 'A1'
MALAN PLAZA LOT 'A'
PB 350 PG 108

6
23Q530665
14248 MANCHESTER RD
N/F
SIGNS OF SNOWMASS LLC
DB 17488, PG 1705
294 SF P.H.E.
537 SF T.C.E.
65260 SF ORIGINAL
65260 SF REMAINING

LOCATOR = 23Q530083
BFS RETAIL & COMMERCIAL OPERATIONS LLC
14266 MANCHESTER RD
DEEDBKPG 13481-289
NO ACQUISITION

MATCHLINE STA. 1576+00.00

MATCHLINE STA. 1581+00.00

℄ HIGHLANDS BLVD

S01°13'13"W

S01°31'09"W

EXIST. ESM'T

EXIST. PP (UIP)
EXIST. ELECTICAL BOX (UIP)
EXIST. UTILITY MAKER (UIP)
EXIST. HH (UIP)
EXIST. ESM'T
EXIST. PP (UIP)
EXIST. SIDEWALK (UIP)
EXIST. UTILITY MAKER (UIP)
EXIST. SIGN (UIP)
EXIST. LIGHT (UIP)
EXIST. ESM'T
EXIST. HH (UIP)
EXIST. ESM'T
EXIST. UTILITY MAKER (UIP)
EXIST. ESM'T
T.C.E
EXIST. SIGN (UIP)
EXIST. LANDSCAPING (DND)
EXIST. WV (UIP)
EXIST. HH (UIP)
EXIST. R/W
T.C.E
EXIST. R/W
EXIST. SIGN (RELOC.)
P.H.E.
EXIST. C&G (UIP)
TYPE B C&G
EXIST. C&G (R)
+59.34
40.05' LT
+79.34
40.05' LT
EXIST. PULL BOX (ATG)
+62.65
39.52' LT
+68.65
40.16' LT
EXIST. GV (UIP)
EXIST. LIGHT (UIP)
BLD TRANS RAMP
MILL/OVERLAY LIMITS
90°
EXIST. MEDIAN (UIP)
℄ RTE 100
EXIST. SIGN (UIP)
EXIST. MEDIAN (MODIFY)
ISLAND CUT-THROUGH
STA. 5+00.00 HIGHLANDS BLVD. =
STA. 1579+32.90 ROUTE 100
SEE SIGNAL PLANS FOR SIGNAL RELATED ITEMS
EXIST. MANHOLE
23Q1-036S (UIP)
EXIST. SIGN (UIP)
EXIST. C&G (UIP)
EXIST. MANHOLE
23Q2-321D (UIP)
EXIST. AT&T-D HH (UIP)
EXIST. UTILITY MARKER (UIP)
EXIST. LIGHT (UIP)
EXIST. GV (UIP)
EXIST. UTILITY MARKER (UIP)
EXIST. INLET
23Q2-320D (UIP)
EXIST. R/W
EXIST. SAN. MH
23Q2-210S (UIP)
EXIST. INLET
23Q1-0272D (UIP)
EXIST. MANHOLE
23Q2-324D (UIP)
EXIST. ISLAND (MODIFY)
EXIST. SIGN (UIP)
ISLAND CUT-THROUGH
EXIST. INLET
23Q1-255D (UIP)
PT STA 4+16.23
EXIST. SIGN (UIP)
EXIST. MEDIAN (UIP)
EXIST. C&G (UIP)
LANDSCAPING (UIP)
EXIST. SIDEWALK (UIP)
EXIST. SIGN (UIP)
TREE (UIP)
TREE (UIP)
TREE (UIP)
TREE (UIP)
EXIST. R/W
MILL/OVERLAY LIMITS
MILL/OVERLAY LIMITS
TREE (UIP)
TREE (UIP)
EXIST. ISLAND (UIP)
EXIST. SIGN (UIP)
EXIST. R/W
EXIST. MCI HH (UIP)
TREE (UIP)
EXIST. INLET
23Q1-254D (UIP)
EXIST. SIGN (UIP)
EXIST. WALL (UIP)
EXIST. C&G (UIP)
EXIST. PP (UIP)
EXIST. FH (UIP)
EXIST. WV (UIP)
(UIP)
EXIST. MEDIAN (UIP)
EXIST. SIGN (UIP)
EXIST. MH
23Q1-253D (UIP)
TREE (UIP)
EXIST. SIGN (UIP)
EXIST. HH (UIP)
EXIST. UTILITY MARKER (UIP)
EXIST. SIGN (UIP)
EXIST. WV (UIP)
EXIST. LIGHT (UIP)
EXIST. PP (UIP)
EXIST. R/W
EXIST. CURB (UIP)
(UIP)
1580

SEE PREVIOUS SHEET FOR PROPERTY INFO

230220356
14239 MANCHESTER RD
N/F
PACE-HIGHLAND EAST ASSOCIATES, LLC
DG 20060, PG 520
NO ACQUISITION
ADJUSTED LOT 7
BOUNDARY ADJUSTMENT PLAT
PB 359 PG 230

SEE NEXT SHEET FOR PROPERTY INFO

250530711
14275 MANCHESTER RD
N/F
TKG-MANCHESTER HIGHLANDS SHOPPING CENTER, LLC
DB 20296PG 4661
TRACT 3
PARCEL C
NO ACQUISITION

℄ HIGHLANDS BLVD

PLAN SHEET LEGEND
- EXISTING RIGHT-OF-WAY (EXIST. ROW)
- PERMANENT EASEMENT (P.H.E.)
- TEMPORARY CONSTRUCTION EASEMENT (T.C.E.)
- CONSTRUCTION LIMITS (SL)
- PROPOSED EPOXY URETHANE POLYMER OVERLAY
- SIDEWALK REMOVAL
- PROPOSED SIDEWALK
- PROPOSED MILL/OVERLAY

DISCLAIMER
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STATE OF MISSOURI
JENNIFER L. HUBER
NUMBER PE-2022000257
PROFESSIONAL ENGINEER
03/27/2025 3:14:59 PM
Jennifer Huber - Civil
MO PE-2022000257

DATE PREPARED 3/27/2025
US ROUTE 100 | STATE MO
DISTRICT SL | SHEET NO. 42
COUNTY ST. LOUIS
JOB NO. J6P3274
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)

CMT
CRAWFORD, MURPHY & TILLY, INC.
ONE MEMORIAL DRIVE, SUITE 500
ST. LOUIS, MO 63102 (314) 436-5500
ENGINEERING CORPORATION - 000631
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SHEET 38 OF 54

PLAN SHEET

ROUTE 100
MANCHESTER ROAD

SCALE
0 20 40 60

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LOT C
MALAN PLAZA
PB 209 PG 55

5
230530463
14268 MANCHESTER RD
N/F
H & H INVESTMENTS
DB 7812, PG 1405
77 SF P.H.E.
1298 SF T.C.E.
47645 SF ORIGINAL
47645 REMAINING

4
230530436
151 GAYWOOD DR
N/F
MANCHESTER CITY OF
DB 8883, PG 2395
209 SF P.H.E.
559 SF T.C.E.
17480 SF ORIGINAL
17480 SF REMAINING

3
230530292
14270 MANCHESTER RD
N/F
WALMAR INVESTMENT CO
DB 6707, PG 1258
250 SF P.H.E.
2333 SF T.C.E.
70554 SF ORIGINAL
70554 REMAINING

2
230530711
14275 MANCHESTER RD
N/F
TKG-MANCHESTER HIGHLANDS SHOPPING CENTER, LLC
DB 20296, PG 4661
TRACT 2
70 SF P.H.E.
256 SF T.C.E.
478675 SF ORIGINAL
478675 REMAINING

READJUSTED LOT 3
MANCHESTER HIGHLANDS PLAT TWO
PB 356 PG 96

ENTRANCE
1583+29.93 LT.
79.6' WIDE PAVED APPROACH (8" PCC)
GRADE = -7.5% / -1.5% (5' ADA PATH) / -6.4% AT CL

ENTRANCE
1584+68.41 LT.
57.3' WIDE PAVED APPROACH (8" PCC)
GRADE = -1.5% (6' ADA PATH) / -13.5% AT CL

ENTRANCE
1585+87.26 LT.
58.5' WIDE PAVED APPROACH (8" PCC)
GRADE = -1.5% (6' ADA PATH) / -13.2% AT CL

SEE NEXT SHEET FOR PROPERTY INFO

MATCHLINE STA. 1581+00.00

MATCHLINE STA. 1586+00.00

1585

EXIST. PP (UIP)
EXIST. HH (UIP)
FULL DEPTH PAVEMENT
CONCRETE TRAFFIC BARRIER, TYPE D (RETAINING WALL)
EXIST. SIGN (R&R)
CONCRETE SLOPE PROTECTION
EXIST. PAVEMENT (R)
TYPE A CURB
EXIST. CURB (R)
T.C.E
EXIST. SIGN (R&R)
EXIST. R/W
LR PERP RAMP
EXIST. PB (UIP)
6' SIDEWALK
EXIST. SIDEWALK (R)
LR PERP RAMP
EXIST. GV (ATG)

EXIST. PP (UIP)
EXIST. ESM'T
EXIST. PP (UIP)
T.C.E
EXIST. R/W
EXIST. GV (UIP)
EXIST. PP (UIP)
EXIST. UTILITY MARKER (UIP)
EXIST. MH 23Q1-186D (UIP)
+17.42 39.75' LT
+37.42 39.88' LT
EXIST. FH (UIP)
T1 PAR RAMP
LANDSCAPING (DND)
EXIST. SIDEWALK (R)
EXIST. PP (UIP)
EXIST. SIGN (RELOC.)
(UIP) NO MSD NO.
TYPE S CURB
EXIST. CURB (R)
6' SIDEWALK
EXIST. SIGN (RELOC.)
+02.70 58.22' LT
+40.26 63.22' LT
EXIST. WV. 2 (ATG)
T.C.E
T.C.E
EXIST. GV (UIP)
+57.57 62.83' LT
SR PERP RAMP
EXIST. GV (ATG)
P.H.E.
EXIST. R/W
+61.60 57.83' LT
EXIST. PP (UIP)
5' SIDEWALK
EXIST. SIDEWALK (R)
TYPE S CURB
EXIST. CURB (R)
SAWCUT
+17.97 62.45' LT
R=25'
T.C.E
+26.07 61.06' LT
+17.93 57.48' LT
+24.40 56.33' LT
LR PERP RAMP
+32.93 53.35' LT
+32.93 51.35' LT
EXIST. SIGN (UIP)
T.C.E
EXIST. SIGN (R&R)
T.C.E
95°40'21"
90°
90°
MILL/OVERLAY
℄ RTE 100
EXIST. SIGN (UIP)
EXIST. SIGN (UIP)
EXIST. MEDIAN (UIP)
(UIP)
EXIST. MH 23Q1-249D (UIP)
MILL/OVERLAY
EXIST. SIGN (UIP)
EXIST. MH 23Q1-033D (UIP)
EXIST. SIGN (UIP)
EXIST. UTILITY MARKER (UIP)
EXIST. C&G (UIP)
EXIST. SIGN (UIP)
EXIST. SAN. MH. 23Q1-165S (UIP)
EXIST. INLET 23Q1-022D (UIP)
EXIST. PULL BOX (UIP)
EXIST. PULL BOX (UIP)
EXIST. R/W
EXIST. WALL (UIP)
TREE (UIP)
TREE (UIP)
TREE (UIP)
EXIST. MH 23Q1-250D (UIP)
TREE (UIP)
EXIST. WALL (UIP)
EXIST. INLET 23Q1-224D (UIP)
EXIST. WALL (UIP)
TREES (UIP)
EXIST. WALL (UIP)
TREE (UIP)
TREES (UIP)
EXIST. FH (UIP)
EXIST. WV (UIP)
EXIST. INLET 23Q1-223D (UIP)
EXIST. WALL (UIP)
TREES (UIP)
(UIP)
EXIST. INLET 23Q1-222D (UIP)
EXIST. WALL (UIP)
EXIST. R/W
TREES (UIP)
EXIST. ESM'T (FROM RECORD PLANS)
TREES (UIP)
EXIST. MCI HH (UIP)
TREES (UIP)
EXIST. WALL (UIP)
TREES (UIP)

PLAN SHEET LEGEND
- EXISTING RIGHT-OF-WAY (EXIST. ROW)
- PERMANENT EASEMENT (P.H.E.)
- TEMPORARY CONSTRUCTION EASEMENT (T.C.E.)
- CONSTRUCTION LIMITS (SL)
- PROPOSED EPOXY URETHANE POLYMER OVERLAY
- SIDEWALK REMOVAL
- PROPOSED SIDEWALK
- PROPOSED MILL/OVERLAY

SHEET 39 OF 54

PLAN SHEET

ROUTE 100
MANCHESTER ROAD

STATE OF MISSOURI
JENNIFER L. HUBER
NUMBER PE-2022000257
PROFESSIONAL ENGINEER
03/27/2025 3:14:59 PM
Jennifer Huber - Civil
MO PE-2022000257

DATE PREPARED
3/27/2025

US ROUTE	STATE
100	MO
DISTRICT	SHEET NO.
SL	43

COUNTY
ST. LOUIS

JOB NO.
J6P3274

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)

CMT
CRAWFORD, MURPHY & TILLY, INC.
ONE MEMORIAL DRIVE, SUITE 500
ST. LOUIS, MO 63102 (314) 436-5500
ENGINEERING CORPORATION - 000631

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SCALE
0 20 40 60

1

230530739
14298 MANCHESTER RD
N/F
WOHLFAHRT HOLDINIGS LLC
DB 21655, PG 552
NO ACQUISITION

℄ NB MO-141 OFF RAMP

PC STA 401+48.52

230530656
14290 MANCHESTER RD
N/F
RDJ LLC
DB 25010, PG 310
PARCEL 1
848 SF T.C.E.
211331 SF ORIGINAL
211331 SF REMAINING

℄ SB MO-141 ON RAMP

PC STA 201+23.14

MATCHLINE STA. 1586+00.00

MATCHLINE STA. 1591+00.00

STA. 400+00.00 NB MO-141 OFF-RAMP =
STA. 1588+06.18 ROUTE 100

STA. 300+00.00 NB MO-141 ON-RAMP =
STA. 1588+14.18 ROUTE 100

STA. 200+00 SB MO-141 ON-RAMP =
STA. 1590+63.11 ROUTE 100

STA. 100+00.00 SB MO-141 OFF-RAMP =
STA. 1590+67.33 ROUTE 100

400 300 200 100

℄ RTE 100

MILL/OVERLAY

SEE SIGNAL PLANS FOR SIGNAL RELATED ITEMS

SEE PREVIOUS SHEET FOR PROPERTY INFO

℄ PT STA 298+58.29

℄ NB MO-141 ON RAMP

℄ SB MO-141 OFF RAMP

1590

S01°31'09"W

S01°46'05"W

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STATE OF MISSOURI
JENNIFER L. HUBER
NUMBER PE-2022000257
PROFESSIONAL ENGINEER
03/27/2025 3:14:59 PM
Jennifer Huber - Civil
MO PE-2022000257

DATE PREPARED: 3/27/2025
US ROUTE: 100 | STATE: MO
DISTRICT: SL | SHEET NO.: 44
COUNTY: ST. LOUIS
JOB NO.: J6P3274
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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CRAWFORD, MURPHY & TILLY, INC.
ONE MEMORIAL DRIVE, SUITE 500
ST. LOUIS, MO 63102 (314) 436-5500
ENGINEERING CORPORATION - 000631
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SHEET 40 OF 54

PLAN SHEET

ROUTE 100
MANCHESTER ROAD

PLAN SHEET LEGEND

- EXISTING RIGHT-OF-WAY (EXIST. ROW)
- PERMANENT EASEMENT (P.H.E.)
- TEMPORARY CONSTRUCTION EASEMENT (T.C.E.)
- CONSTRUCTION LIMITS (SL)
- PROPOSED EPOXY URETHANE POLYMER OVERLAY
- SIDEWALK REMOVAL
- PROPOSED SIDEWALK
- PROPOSED MILL/OVERLAY

SCALE
0 20 40 60

MATCHLINE STA. 1591+00.00

MATCHLINE STA. 1594+14.18

EXIST. R/W

230441336
14302 MANCHESTER RD
N/F
SPIRIT ENERGY LLC
DP 14390, PG 1439
NO ACQUISITION

230441455
17 NATIONAWAY SHOPPING CNTR
N/F
WOHLFAHRT HOLDINGS LLC
DB 23686, PG 3381
LOT 2
NO ACQUISITION

EXIST. UTILITY MARKER (UIP)
EXIST. PP (UIP)
EXIST. METER (UIP)
EXIST. UTILITY MARKER (UIP)
EXIST. PP (UIP)
EXIST. LIGHT (UIP)
+32.09 63.53' LT
+26.83 55.58' LT
+20.57 46.65' LT
T1 PAR RAMP
EXIST. UTILITY MARKER (R)
EXIST. SIGN (UIP)
EXIST. SIGN (UIP)
TREE (UIP)
EXIST. OVERHEAD SIGN (UIP)
EXIST. R/W
EXIST. SIDEWALK (UIP)
(UIP) SR PERP RAMP
+25.68 45.59' LT
EXIST. INLET 23Q1-191D (UIP)
EXIST. SIGN (UIP)
SAWCUT
EXIST. PAVEMENT (R)
6' SIDEWALK
EXIST. SIDEWALK (R)
4" STAMPED CONCRETE
TYPE S CURB
EXIST. CURB (R)
+08.83 39.82' LT
+09.52 39.82' LT
+10.11 34.45' LT
MILL/OVERLAY
SAWCUT
6' SIDEWALK
EXIST. SIDEWALK (R)
TYPE S CURB
EXIST. CURB (R)
EXIST. ENTRANCE (UIP)
MILL/OVERLAY LIMITS
(UIP)
(UIP)
(UIP)
EXIST. R/W
EXIST. R/W
EXIST. R/W
SR PERP RAMP
℄ RTE 100
END PROJECT
STA. 1592+85.69
MILL/OVERLAY LIMITS
END STA 1594+14.18
SEE SIGNAL PLANS FOR SIGNAL RELATED ITEMS
(UIP)
EXIST. MEDIAN (UIP)
4" STAMPED CONCRETE
6' SIDEWALK
EXIST. SIDEWALK (R)
TYPE S CURB
EXIST. CURB (R)
EXIST. PAVEMENT (R)
SAWCUT
+21.32 55.96' RT
MILL/OVERLAY
EXIST. MANHOLE 23Q1-068D (UIP)
TYPE A INTEGRAL CURB
6' SIDEWALK
EXIST. SIDEWALK (R)
MILL/OVERLAY LIMITS
+40.76 59.82' RT
SR PERP RAMP (UIP)
EXIST. OVERHEAD SIGN (UIP)
TYPE S CURB
EXIST. CURB (R)
EXIST. PP (UIP)
MILL/OVERLAY LIMITS
EXIST. INLET 23Q1-190D (UIP)
EXIST. ENTRANCE (UIP)
EXIST. INLET 23Q1-0339D (UIP)
SR PERP RAMP
EXIST. GV (UIP)
+21.27 60.56' RT
+36.21 62.30' RT
+54.98 74.67' RT
+60.94 77.53' RT
(UIP)
LANDSCAPING RESTORATION
EXIST. CLEANOUT (ATG)
EXIST. AT&T-D MH (ATG BO)
T1 PAR RAMP
(UIP)
EXIST. AT&T-D MH (UIP)
EXIST. R/W
EXIST. PP (UIP)
EXIST. R/W
EXIST. R/W
EXIST. R/W

230441381
14301 MANCHESTER RD
N/F
MARTINGAYLE LLC
DB 2264, PG 1812
NO ACQUISITION

230441400
14305 MANCHESTER RD
N/F
CAROL L. ESSLINGER
DB 2080, PG 65
NO ACQUISITION

PLAN SHEET LEGEND

- EXISTING RIGHT-OF-WAY (EXIST. ROW)
- PERMANENT EASEMENT (P.H.E.)
- TEMPORARY CONSTRUCTION EASEMENT (T.C.E.)
- CONSTRUCTION LIMITS (SL)
- PROPOSED EPOXY URETHANE POLYMER OVERLAY
- SIDEWALK REMOVAL
- PROPOSED SIDEWALK
- PROPOSED MILL/OVERLAY

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STATE OF MISSOURI
JENNIFER L. HUBER
NUMBER PE-2022000257
PROFESSIONAL ENGINEER
03/27/2025 3:14:59 PM
Jennifer Huber - Civil
MO PE-2022000257

DATE PREPARED
3/27/2025

US ROUTE	STATE
100	MO
DISTRICT	SHEET NO.
SL	45

COUNTY
ST. LOUIS

JOB NO.
J6P3274

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)

CMT
CRAWFORD, MURPHY & TILLY, INC.
ONE MEMORIAL DRIVE, SUITE 500
ST. LOUIS, MO 63102 (314) 436-5500
ENGINEERING CORPORATION - 000631
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SHEET 41 OF 54

PLAN SHEET

ROUTE 100
MANCHESTER ROAD

SCALE
0 20 40 60

CONSTRUCTION NOTE:
DITCH AT BASE OF END BENT CONCRETE SLOPE TO BE CLEARED OUT BY CONTRACTOR

DISCLAIMER
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MATCHLINE STA. 1406+00.00

℄ ROUTE 100 EB
EXIST. SIGN (UIP)
EXIST. BARRIER (UIP)
EXIST. ELEC. MH (UIP)
EXIST. PP (UIP)
EXIST MEDIAN (UIP)
EXIST. TELE MH (UIP)
EXIST. PP (UIP)
EXIST. AGGR. DITCH (UIP)
EXIST. PP (UIP)
EXIST. ELEC. RISER (UIP)
EXIST. GUY WIRE (UIP)
TREES (DND)
EXIST. LANDSCAPING (UIP)
ROUTE 100 RAMP
EXIST. LANDSCAPING AND AGGR. DITCH (UIP)
EXIST. 12IN PIPE (UIP)
I-270
MODOT ITS
1410
EXIST. SIGN (R)
EXIST. GUARDRAIL (R)
SEE J6P3274B FOR GUARDRAIL IMPROVEMENTS
MODOT ITS
BRIDGE A56822
SEE J6P3274B FOR BRIDGE IMPROVEMENTS
INSTALL 5 CU. YD. FLOWABLE BACKFILL BENEATH CONCRETE PAVED SLOPE AS DIRECTED BY ENGINEER
PT STA 1407+53.77
EXIST. SIGN (UIP)
℄ ROUTE 100 WB
N79°59'05"W

MATCHLINE STA. 1411+00.00

EXIST. ISLAND (UIP)
EXIST. SIGN (UIP)
EXIST. GUARDRAIL (UIP)
EXIST. SIGN (UIP)
EXIST. DITCH (UIP)
EXIST. 18IN PIPE (UIP)
EXIST. SIGN (UIP)
EXIST. LIGHT POLE (UIP)
EXIST. 15IN PIPE (UIP)
EXIST. PP (UIP)
EXIST. 12IN PIPE (UIP)
EXIST. 18IN PIPE (UIP)
J.J. KELLEY MEMORIAL DR
EXIST. UNK WATER UTILITY (UIP)
TREES (DND)
EXIST. SAN. MH (UIP)
TREES (DND)
EXIST. SIGN (UIP)
EXIST. CURB (UIP)
℄ ROUTE 100 STA. 1409+87.16 TO STA. 1409+88.16 REMOVE 1' EXIST. CURB
EXIST. GUARDRAIL (UIP)
EXIST. LIGHT POLE (UIP)
EXIST. SIGN (UIP)
EXIST. GUARDRAIL (UIP)
EXIST. SIGN (UIP)
EXIST. GUARDRAIL (UIP)
I-270 RAMP
EXIST. SIGN (UIP)

PLAN SHEET LEGEND
- EXISTING RIGHT-OF-WAY (EXIST. ROW)
- PERMANENT EASEMENT (P.H.E.)
- TEMPORARY CONSTRUCTION EASEMENT (T.C.E.)
- CONSTRUCTION LIMITS (SL)
- PROPOSED EPOXY URETHANE POLYMER OVERLAY
- SIDEWALK REMOVAL
- PROPOSED SIDEWALK
- PROPOSED MILL/OVERLAY

SHEET 42 OF 54

PLAN SHEET

MO ROUTE 100
MANCHESTER ROAD

STATE OF MISSOURI
BRIAN D. KIERATH JR.
NUMBER PE-2023008624
PROFESSIONAL ENGINEER
04/01/2025 10:40:45 AM
Brian D. Kierath Jr. - Civil
MO PE-2023008624

DATE PREPARED
4/1/2025

ROUTE	STATE
100	MO
DISTRICT	SHEET NO.
SL	46

COUNTY
ST. LOUIS

JOB NO.
J6P3274

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)

GBA
16305 SWINGLEY RIDGE RD
ST. 300
CHESTERFIELD, MO 63017
314.231.0100
gbateam.com

GEORGE BUTLER ASSOCIATES, INC.
PRO. ENGINEER 000133
ARCHITECT 000212
PRO. LAND SURVEYOR 000059

BRIAN KIERATH
PROFESSIONAL ENGINEER
PE-2023008624

SCALE
0 20 40 60

PROP_WB_100	
PI	1413+94.63
PC	1411+66.07
PT	1416+22.18
△	9°20'0.0" (LT)
D	2°2'46.6"
L	456.11'
T	228.56'
R	2,800.00'

DISCLAIMER
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MODOT ITS

I-270

I-270 RAMP

1415

MATCHLINE STA. 1411+00.00

PC STA 1411+66.07

N79°59'05"W

BRIDGE A56822
SEE J6P3274B FOR BRIDGE IMPROVEMENTS

℄ ROUTE 100 WB

TREES (DND)

MATCHLINE STA. 1416+00.00

100 RAMP

EXIST. CURB (UIP)

CORPORATE HILL DR

SB I-270 OFF RAMP MATCHLINE

SEE TIED PROEJCT J6P3274B
FOR PROPOSED IMPROVEMENTS

PLAN SHEET LEGEND

- EXISTING RIGHT-OF-WAY (EXIST. ROW)
- PERMANENT EASEMENT (P.H.E.)
- TEMPORARY CONSTRUCTION EASEMENT (T.C.E.)
- CONSTRUCTION LIMITS (SL)
- PROPOSED EPOXY URETHANE POLYMER OVERLAY
- SIDEWALK REMOVAL
- PROPOSED SIDEWALK
- PROPOSED MILL/OVERLAY

SHEET 43 OF 54

PLAN SHEET

MO ROUTE 100
MANCHESTER ROAD

STATE OF MISSOURI
BRIAN D. KIERATH JR.
NUMBER PE-2023008624
PROFESSIONAL ENGINEER
04/01/2025 10:40:45 AM
Brian D. Kierath Jr. - Civil
MO PE-2023008624

DATE PREPARED
4/1/2025

ROUTE	STATE
100	MO
DISTRICT	SHEET NO.
SL	47

COUNTY
ST. LOUIS

JOB NO.
J6P3274

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)

GBA
16305 SWINGLEY RIDGE RD
ST. 300
CHESTERFIELD, MO 63017
314.231.0100
GBAteam.com

GEORGE BUTLER ASSOCIATES, INC.
PRO. ENGINEER 000133
ARCHITECT 000212
PRO. LAND SURVEYOR 000059

BRIAN KIERATH
PROFESSIONAL ENGINEER
PE-2023008624

SCALE
0 20 40 60

DISCLAIMER
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MATCHLINE STA. 1416+00.00

PT STA 1416+22.18

BRIDGE A56822
SEE J6P3274B FOR BRIDGE IMPROVEMENTS

1420

TREE (DND)

MATCHLINE STA. 1421+00.00

N89°19'05"W

℄ ROUTE 100 WB

EXIST. CURB (UIP)

TREES (DND)

CORPORATE HILL DR

TREES (DND)

TREES (DND)

TREE (DND)

PLAN SHEET LEGEND

- EXISTING RIGHT-OF-WAY (EXIST. ROW)
- PERMANENT EASEMENT (P.H.E.)
- TEMPORARY CONSTRUCTION EASEMENT (T.C.E.)
- CONSTRUCTION LIMITS (SL)
- PROPOSED EPOXY URETHANE POLYMER OVERLAY
- SIDEWALK REMOVAL
- PROPOSED SIDEWALK
- PROPOSED MILL/OVERLAY

SHEET 44 OF 54

PLAN SHEET

MO ROUTE 100
MANCHESTER ROAD

STATE OF MISSOURI
BRIAN D. KIERATH JR.
NUMBER PE-2023008624
PROFESSIONAL ENGINEER

04/01/2025 10:40:46 AM
Brian D. Kierath Jr. - Civil
MO PE-2023008624

DATE PREPARED
4/1/2025

ROUTE	STATE
100	MO
DISTRICT	SHEET NO.
SL	48

COUNTY
ST. LOUIS

JOB NO.
J6P3274

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

NO.	DESCRIPTION	DATE

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

GBA
16305 SWINGLEY RIDGE RD
ST. 300
CHESTERFIELD, MO 63017
314.231.0100
GBAteam.com

GEORGE BUTLER ASSOCIATES, INC.
PRO. ENGINEER 000133
ARCHITECT 000212
PRO. LAND SURVEYOR 000059

BRIAN KIERATH
PROFESSIONAL ENGINEER
PE-2023008624

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

SCALE
0 20 40 60

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MATCHLINE STA. 1421+00.00

EXIST. INLET (UIP)

TREES (DND)

℄

N89°19'05"W

℄ ROUTE 100 WB

PC STA 1423+43.21

EXIST. INLET (UIP)

EXIST. INLET (UIP)

EXIST. GUARDRAIL (UIP)

EXIST. SAN. MH (UIP)

EXIST. SIGN (UIP)

EXIST. SAN. MH (UIP)

DES PERES RD

MODOT ITS

BRIDGE A56822
SEE J6P3274B FOR BRIDGE IMPROVEMENTS

EXIST. R/W

1425

74
220420691
1011 DES PERES RD
N/F
FRANKLIN MANCHESTER RD. LLC
DB 24300, PG 3982
SEE SHEET 11

TREES (DND)

EXIST. R/W

STA 1425+39.59
BEGIN MILL/OVERLAY

+67.87
22.68' RT.

TREES (DND)

EXIST. SIGN (UIP)

EXIST. GUARDRAIL (UIP)

EXIST. SIGN (UIP)

EXIST. SIGN (UIP)

DES PERES RD

MATCHLINE STA. 1426+00.00

PLAN SHEET LEGEND

- EXISTING RIGHT-OF-WAY (EXIST. ROW)
- PERMANENT EASEMENT (P.H.E.)
- TEMPORARY CONSTRUCTION EASEMENT (T.C.E.)
- CONSTRUCTION LIMITS (SL)
- PROPOSED EPOXY URETHANE POLYMER OVERLAY
- SIDEWALK REMOVAL
- PROPOSED SIDEWALK
- PROPOSED MILL/OVERLAY

PLAN SHEET

MO ROUTE 100
MANCHESTER ROAD

STATE OF MISSOURI
BRIAN D. KIERATH JR.
NUMBER PE-2023008624
PROFESSIONAL ENGINEER
04/01/2025 10:40:46 AM
Brian D. Kierath Jr. - Civil
MO PE-2023008624

DATE PREPARED
4/1/2025

ROUTE	STATE
100	MO
DISTRICT	SHEET NO.
SL	49

COUNTY
ST. LOUIS

JOB NO.
J6P3274

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)

GBA
16305 SWINGLEY RIDGE RD
ST. 300
CHESTERFIELD, MO 63017
314.231.0100
GBAteam.com

GEORGE BUTLER
ASSOCIATES, INC.
PRO. ENGINEER 000133
ARCHITECT 000212
PRO. LAND SURVEYOR 000059

BRIAN KIERATH
PROFESSIONAL
ENGINEER
PE-2023008624

SCALE
0 20 40 60

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74
220420691
1011 DES PERES RD
N/F
FRANKLIN MANCHESTER RD. LLC
DB 24300, PG 3982
SEE SHEET 11

1430

MATCHLINE STA. 1426+00.00

MATCHLINE STA. 1431+00.00

TREES (DND)
EXIST. SIGN (UIP)
EXIST. R/W
EXIST. SIGN (UIP)
EXIST. SIGN (UIP)
PT STA 1429+03.36
TREES (DND)
EXIST. SIGN (UIP)
EXIST. R/W

MILL/OVERLAY
℄ ROUTE 100 WB
N83°28'58"W
+66.34
23.98' RT.

EXIST. SIGN (UIP)
EXIST. SIGN (UIP)
EXIST. SIGN (UIP)
EXIST. SIGN (UIP)
EXIST. LIGHT POLE (UIP)

ROUTE 100 RAMP
EXIST. 12" PIPE (UIP)
EXIST. INLET (UIP)
ROUTE 100 RAMP
EXIST. R/W

EXIST. LIGHT POLE (UIP)
EXIST. SIGN (UIP)
EXIST. GUARDRAIL (UIP)
EXIST. FENCE (UIP)
EXIST. CURB (UIP)

EXIST. SIGN (UIP)
EXIST. GUARDRAIL (UIP)
EXIST. DITCH (UIP)

220440280
1301 DES PERES RD
N/F
LOCKWOOD DPR LLC
DB 21669, PG 402
NO AQUISITION

PROP_WB_100	
PI	1426+23.53
PC	1423+43.21
PT	1429+03.36
△	5°50'7.0" (RT)
D	1°2'30.3"
L	560.15' (ARC)
T	280.32'
R	5,500.00'

TREES (DND)

EXIST. LIGHT POLE (UIP)
EXIST. INLET (UIP)
EXIST. 36" PIPE (UIP)
EXIST. 30" PIPE (UIP)
EXIST. FES (UIP)

PLAN SHEET LEGEND
- EXISTING RIGHT-OF-WAY (EXIST. ROW)
- PERMANENT EASEMENT (P.H.E.)
- TEMPORARY CONSTRUCTION EASEMENT (T.C.E.)
- CONSTRUCTION LIMITS (SL)
- PROPOSED EPOXY URETHANE POLYMER OVERLAY
- SIDEWALK REMOVAL
- PROPOSED SIDEWALK
- PROPOSED MILL/OVERLAY

SHEET 46 OF 54

PLAN SHEET

MO ROUTE 100
MANCHESTER ROAD

STATE OF MISSOURI
BRIAN D. KIERATH JR.
NUMBER PE-2023008624
PROFESSIONAL ENGINEER
04/01/2025 10:40:47 AM
Brian D. Kierath Jr. - Civil
MO PE-2023008624

DATE PREPARED
4/1/2025

ROUTE	STATE
100	MO
DISTRICT	SHEET NO.
SL	50

COUNTY
ST. LOUIS

JOB NO.
J6P3274

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)

GBA
16305 SWINGLEY RIDGE RD
ST, 300
CHESTERFIELD, MO 63017
314.231.0100
GBAteam.com

GEORGE BUTLER ASSOCIATES, INC.
PRO. ENGINEER 000133
ARCHITECT 000212
PRO. LAND SURVEYOR 000059

BRIAN KIERATH
PROFESSIONAL ENGINEER
PE-2023008624

SCALE
0 20 40 60

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MATCHLINE STA. 1431+00.00

MATCHLINE STA. 1436+00.00

74
220420691
1011 DES PERES RD
N/F
FRANKLIN MANCHESTER RD. LLC
DB 24300, PG 3982
SEE SHEET 11

73
220420701
12969 MANCHESTER RD
N/F
WHITE CO MANCHESTER, 1 LLC
DB 22360, PG 2206
SEE SHEET 12

72
220420747
13001 MANCHESTER RD
N/F
RRG 28, LLC
DB 21676, PG 133
SEE SHEET 12

EXIST. PP (UIP)
EXIST. SAN. MH (UIP)
EXIST. SAN. MH (UIP)
EXIST. FES (UIP)
EXIST. 18" PIPE (UIP)
EXIST. SAN. MH (UIP)
EXIST. SIGN (UIP)
EXIST. SAN. MH (UIP)
EXIST. SAN. MH (UIP)
EXIST. SIGN (UIP)
EXIST. R/W
EXIST. CURB (UIP)
EXIST. R/W
TREES (DND)
EXIST. R/W
PC STA 1434+96.73
PC STA 1435+42.02
WESTMARK DR
S07°30'23"W
EXIST. FES (UIP)
EXIST. 18" PIPE (UIP)
EXIST. SIGN (UIP)
MILL/OVERLAY
N83°28'58"W
℄ ROUTE 100 WB
+43.00
35.07' RT.
EXIST. GUARDRAIL (UIP)
EXIST. SIGN (UIP)
EXIST. R/W
EXIST. DITCH (UIP)
EXIST. WALL (UIP)
EXIST. SIGN (UIP)
EXIST. SAN. MH (UIP)
EXIST. R/W
220440280
1301 DES PERES RD
N/F
LOCKWOOD DPR LLC
DB 21669, PG 402
NO AQUISITION
EXIST. SAN. MH (UIP)
EXIST. R/W
220440192
12842 THORNHILL CT
N/F
GAVINI RAJENDRA & PRASUNA
TRUSTEES
DB 21764, PG 960
NO AQUISITION

PLAN SHEET LEGEND
- EXISTING RIGHT-OF-WAY (EXIST. ROW)
- PERMANENT EASEMENT (P.H.E.)
- TEMPORARY CONSTRUCTION EASEMENT (T.C.E.)
- CONSTRUCTION LIMITS (SL)
- PROPOSED EPOXY URETHANE POLYMER OVERLAY
- SIDEWALK REMOVAL
- PROPOSED SIDEWALK
- PROPOSED MILL/OVERLAY

SHEET 47 OF 54

PLAN SHEET

MO ROUTE 100
MANCHESTER ROAD

STATE OF MISSOURI
BRIAN D. KIERATH JR.
NUMBER PE-2023008624
PROFESSIONAL ENGINEER
04/01/2025 10:40:47 AM
Brian D. Kierath Jr. - Civil
MO PE-2023008624

DATE PREPARED
4/1/2025

ROUTE	STATE
100	MO
DISTRICT	SHEET NO.
SL	51

COUNTY
ST. LOUIS

JOB NO.
J6P3274

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

NO	DATE	DESCRIPTION

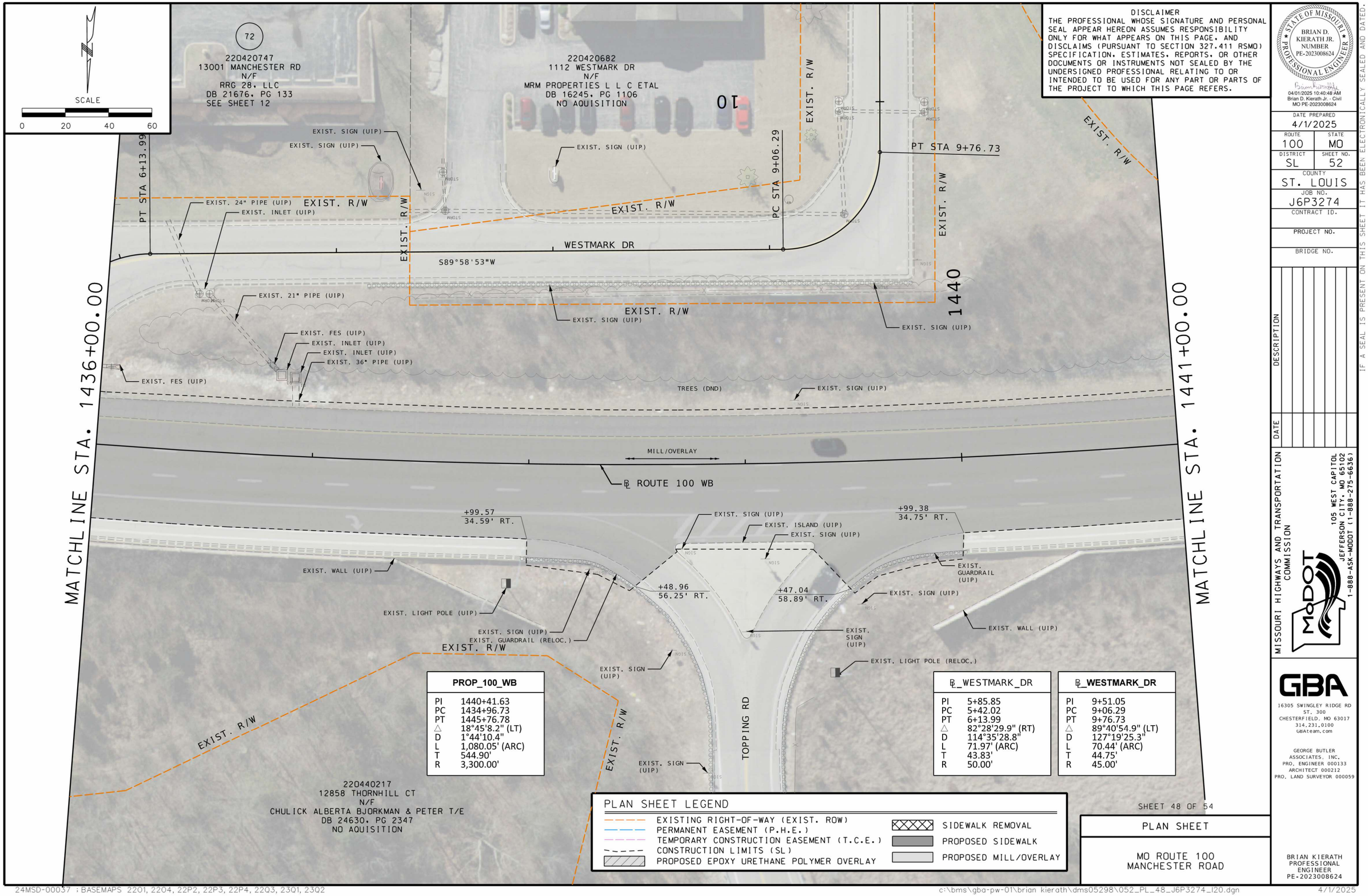
IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

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

GBA
16305 SWINGLEY RIDGE RD
ST. 300
CHESTERFIELD, MO 63017
314.231.0100
GBAteam.com

GEORGE BUTLER ASSOCIATES, INC.
PRO. ENGINEER 000133
ARCHITECT 000212
PRO. LAND SURVEYOR 000059

BRIAN KIERATH
PROFESSIONAL ENGINEER
PE-2023008624



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STATE OF MISSOURI
BRIAN D. KIERATH JR.
NUMBER PE-2023008624
PROFESSIONAL ENGINEER
04/01/2025 10:40:48 AM
Brian D. Kierath Jr. - Civil
MO PE-2023008624

DATE PREPARED
4/1/2025

ROUTE	STATE
100	MO
DISTRICT	SHEET NO.
SL	52

COUNTY
ST. LOUIS
JOB NO.
J6P3274
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)

GBA
16305 SWINGLEY RIDGE RD
ST. 300
CHESTERFIELD, MO 63017
314.231.0100
GBAteam.com

GEORGE BUTLER ASSOCIATES, INC.
PRO. ENGINEER 000133
ARCHITECT 000212
PRO. LAND SURVEYOR 000059

BRIAN KIERATH
PROFESSIONAL ENGINEER
PE-2023008624

SHEET 48 OF 54

PLAN SHEET

MO ROUTE 100
MANCHESTER ROAD

SCALE
0 20 40 60

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66
220410672, 220410562
13075-13101 MANCHESTER RD
N/F
13075 MANCHESTER RD LLC
DB 23090, PG 3497
SEE SHEET 13

1441+00.00
MATCHLINE STA. 1441+00.00

1446+00.00
MATCHLINE STA. 1446+00.00

℄ ROUTE 100 WB STA. 1442+88 TO STA. 1443+38 LT
INSTALL 50' MGS GUARDRAIL
W/ 1 TYPE A CRASHWORTHY END TERMINAL (MASH)
& 1 MGS BRIDGE APPROACH TRANSITION SECTION
(REGULAR / NO CURB)

EXIST. R/W
EXIST. SIGN (UIP)
TREES (DND)
TREES (DND)
EXIST. GUARDRAIL(R)
EXIST. INLET (UIP)
EXIST. 12" PIPE (UIP)
EXIST. INLET (UIP)
EXIST. 36" PIPE (UIP)
EXIST. STORM MH (UIP)
EXIST. 12" PIPE (UIP)
EXIST. 15" PIPE (UIP)
EXIST. INLET (UIP)
EXIST. 12" PIPE (UIP)
EXIST. SIGN (UIP)
EXIST. 12" PIPE (UIP)
EXIST. 12" PIPE (UIP)
EXIST. GUARDRAIL (UIP)
EXIST. SIGN (UIP)
EXIST. SAN. MH (UIP)
EXIST. R/W
EXIST. SIGN (UIP)
1445
+86.57
13.65' LT.
PT STA. 1445+76.78
N77°45'54"E
+75.13
12.98' LT.
MILL/OVERLAY
℄ ROUTE 100 WB
TREES (DND)
EXIST. SAN. MH (UIP)
EXIST. 36" PIPE (UIP)
EXIST. SAN. MH (UIP)
EXIST. FES (UIP)
EXIST. SAN. MH (UIP)
EXIST. R/W

PROP_100_WB	
PI	1440+41.63
PC	1434+96.73
PT	1445+76.78
△	18°45'8.2" (LT)
D	1°44'10.4"
L	1,080.05' (ARC)
T	544.90'
R	3,300.00'

PLAN SHEET LEGEND
- EXISTING RIGHT-OF-WAY (EXIST. ROW)
- PERMANENT EASEMENT (P.H.E.)
- TEMPORARY CONSTRUCTION EASEMENT (T.C.E.)
- CONSTRUCTION LIMITS (SL)
- PROPOSED EPOXY URETHANE POLYMER OVERLAY
- SIDEWALK REMOVAL
- PROPOSED SIDEWALK
- PROPOSED MILL/OVERLAY

SHEET 49 OF 54

PLAN SHEET

MO ROUTE 100
MANCHESTER ROAD

STATE OF MISSOURI
BRIAN D. KIERATH JR.
NUMBER PE-2023008624
PROFESSIONAL ENGINEER
04/01/2025 10:40:48 AM
Brian D. Kierath Jr. - Civil
MO PE-2023008624

DATE PREPARED
4/1/2025

ROUTE	STATE
100	MO
DISTRICT	SHEET NO.
SL	53

COUNTY
ST. LOUIS
JOB NO.
J6P3274
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)

GBA
16305 SWINGLEY RIDGE RD
ST. 300
CHESTERFIELD, MO 63017
314.231.0100
GBAteam.com

GEORGE BUTLER
ASSOCIATES, INC.
PRO. ENGINEER 000133
ARCHITECT 000212
PRO. LAND SURVEYOR 000059

BRIAN KIERATH
PROFESSIONAL
ENGINEER
PE-2023008624

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

SCALE
0 20 40 60

65
220410562
13133 MANCHESTER RD
N/F
KA DES PERES LLC
DB 20846, PG 493
SEE SHEET 14

66
220410672
13075 MANCHESTER RD
N/F
13075 MANCHESTER ROAD LLC
DB 23090, PG 3497
SEE SHEET 13

61
220410654
13205 MANCHESTER RD
N/F
13205 MANCHESTER LLC
DB 23718, PG 62
SEE SHEET 15

MATCHLINE STA. 1446+00.00

MATCHLINE STA. 1451+00.00

1450

DRWY
STA. 1446+30.00 LT
NO IMPROVEMENTS

DRWY
STA. 1448+06.00 LT
NO IMPROVEMENTS

EXIST. CURB (UIP)
TREE (DND)
EXIST. SLOTTED DRAIN (UIP)
EXIST. 6" PIPE (UIP)
EXIST. INLET (UIP)
EXIST. LANDSCAPING (UIP)
EXIST. SIGN (UIP)
EXIST. 12" PIPE (UIP)
EXIST. 12" PIPE (UIP)
EXIST. INLET (UIP)
EXIST. LANDSCAPING (UIP)
EXIST. 12" PIPE (UIP)
EXIST. ISLAND (UIP)
EXIST. INLET (UIP)
TREES (DND)
EXIST. 12" PIPE (UIP)
EXIST. INLET (UIP)
EXIST. 12" PIPE (UIP)
EXIST. 12" PIPE (UIP)
EXIST. 12" PIPE (UIP)
EXIST. FES (UIP)
EXIST. 18" PIPE (UIP)
EXIST. INLET (UIP)
TREES (DND)
EXIST. R/W
EXIST. FES (UIP)
EXIST. SAN. MH (UIP)
EXIST. SIGN (UIP)
90°
70°23'38"
MILL/OVERLAY
S77°45'54"W
℄ ROUTE 100 WB
+95.60
22.75' RT.
EXIST. SIGN (UIP)
EXIST. INLET (UIP)
TREES (DND)
EXIST. R/W
EXIST. SIGN (UIP)
EXIST. R/W
EXIST. R/W
EXIST. R/W

220430335
12920 PINGRY PL
N/F
CALVIN SAMANTHA F & JAMES E H/H
DB 20235, PG 4315
NO AQUISITION

220430032
12921 PINGRY PL
N/F
CALVIN JAMES EDWARD & SAMANTHA FELKNER
DB 19563, PG 1292
NO AQUISITION

PLAN SHEET LEGEND

- EXISTING RIGHT-OF-WAY (EXIST. ROW)
- PERMANENT EASEMENT (P.H.E.)
- TEMPORARY CONSTRUCTION EASEMENT (T.C.E.)
- CONSTRUCTION LIMITS (SL)
- PROPOSED EPOXY URETHANE POLYMER OVERLAY
- SIDEWALK REMOVAL
- PROPOSED SIDEWALK
- PROPOSED MILL/OVERLAY

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STATE OF MISSOURI
BRIAN D. KIERATH JR.
NUMBER PE-2023008624
PROFESSIONAL ENGINEER
04/01/2025 10:40:49 AM
Brian D. Kierath Jr. - Civil
MO PE-2023008624

DATE PREPARED
4/1/2025

ROUTE	STATE
100	MO
DISTRICT	SHEET NO.
SL	54

COUNTY
ST. LOUIS

JOB NO.
J6P3274

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)

GBA
16305 SWINGLEY RIDGE RD
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314.231.0100
GBAteam.com

GEORGE BUTLER ASSOCIATES, INC.
PRO. ENGINEER 000133
ARCHITECT 000212
PRO. LAND SURVEYOR 000059

BRIAN KIERATH
PROFESSIONAL ENGINEER
PE-2023008624

SHEET 50 OF 54

PLAN SHEET

MO ROUTE 100
MANCHESTER ROAD

SCALE

0 20 40 60

61

220410654
13205 MANCHESTER RD
N/F
13205 MANCHESTER LLC
DB 23718, PG 62
SEE SHEET 15

MATCHLINE STA. 1451+00.00

MATCHLINE STA. 1455+00.00

EXIST. SIGN (UIP)

PC STA 1451+21.67

N77°45'54"E

EXIST. DITCH (UIP)

EXIST. RETAINING WALL (UIP)

TREES (DND)

EXIST. R/W

MILL/OVERLAY

℄ ROUTE 100 WB

+73.88
32.87' RT.

+62.90
32.81' RT.

2'

EXIST. SIGN (UIP)

TREES (DND)

EXIST. SIGN (UIP)

EXIST. SIGN (UIP)

EXIST. DITCH (UIP)

PROP_100_WB	
PI	1457+15.82
PC	1451+21.67
PT	1462+22.51
△	53°27'7.7" (LT)
D	4°51'20.0"
L	1,100.84' (ARC)
T	594.15'
R	1,180.00'

EXIST. R/W

EXIST. R/W

220430023
12943 PINGRY PL
N/F
BUTLER ROBERT
DB 24242, PG 2426
NO AQUISITION

EXIST. R/W

PLAN SHEET LEGEND

- EXISTING RIGHT-OF-WAY (EXIST. ROW)
- PERMANENT EASEMENT (P.H.E.)
- TEMPORARY CONSTRUCTION EASEMENT (T.C.E.)
- CONSTRUCTION LIMITS (SL)
- PROPOSED EPOXY URETHANE POLYMER OVERLAY
- SIDEWALK REMOVAL
- PROPOSED SIDEWALK
- PROPOSED MILL/OVERLAY

DISCLAIMER
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STATE OF MISSOURI
BRIAN D. KIERATH JR.
NUMBER PE-2023008624
PROFESSIONAL ENGINEER

04/01/2025 10:40:49 AM
Brian D. Kierath Jr. - Civil
MO PE-2023008624

DATE PREPARED
4/1/2025

ROUTE	STATE
100	MO
DISTRICT	SHEET NO.
SL	55

COUNTY
ST. LOUIS

JOB NO.
J6P3274

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)

GBA
16305 SWINGLEY RIDGE RD
ST. 300
CHESTERFIELD, MO 63017
314.231.0100
GBAteam.com

GEORGE BUTLER ASSOCIATES, INC.
PRO. ENGINEER 000133
ARCHITECT 000212
PRO. LAND SURVEYOR 000059

BRIAN KIERATH
PROFESSIONAL ENGINEER
PE-2023008624

SHEET 51 OF 54

PLAN SHEET

MO ROUTE 100
MANCHESTER ROAD

SCALE
0 20 40 60

61
220410654
13205 MANCHESTER RD
N/F
13205 MANCHESTER LLC
DB 23718, PG 62
SEE SHEET 15

60
22P620452
13275 MANCHESTER RD
N/F
HORN LAKE PROPERTIES LLC
DB 22168, PG 5024
SEE SHEET 16

PL0901009
13421 MANCHESTER RD
N/F
DES PERES OFFICE PARK, LLC
DB 17684, PG 4443
NO ACQUISITION

MATCHLINE STA. 1455+00.00

MATCHLINE STA. 1460+00.00

PT STA 7+07.75

PC STA 6+19.03

POINTE DR.

S54°39'05"E

84°53'29"

76°31'12"

EXIST. R/W

MILL/OVERLAY

℄ ROUTE 100 WB

STA. 5+00.00 POINTE DR. = STA. 1458+9.82 ROUTE 100 WB

+11.97
41.00' RT.

+35.57
33.20' RT.

+21.53
43.00' RT.

+35.43
54.36' RT.

+70.44
23.68' RT.

R15

8"

2'

DRWY
STA. 1456+36.00 RT
NO IMPROVEMENTS

℄ ROUTE 100 WB STA. 1457+36 TO STA. 1457+73 RT
INSTALL 1 TYPE A CRASHWORTHY END TERMINAL (MASH)
W/ 1 MGS BRIDGE APPROACH TRANSITION SECTION
(REGULAR / NO CURB)

EXIST. RETAINING WALL (UIP)
EXIST. INLET 22P2-090D (UIP)
EXIST. GUARDRAIL (UIP)
EXIST. 18" PIPE (UIP)
EXIST. INLET 22P2-089D (UIP)
EXIST. SIGN (UIP)
EXIST. 21" PIPE (UIP)
TREES (DND)
EXIST. SIGN (UIP)
EXIST. WATER VALVE (UIP)
EXIST HYDRANT (UIP)
EXIST. MEDIAN (UIP)
EXIST. LANDSCAPING (UIP)
EXIST. 21" PIPE (UIP)
EXIST. SAN. MH 22P2-103S (UIP)
EXIST. LIGHT POLE (UIP)
EXIST. SIGN (UIP)
EXIST. INLET 22P2-088D (UIP)
EXIST. SIGN (UIP)
EXIST. SIGN (UIP)
EXIST. SIGN (UIP)
EXIST. LIGHT POLE (UIP)
EXIST. 12" PIPE (UIP)
EXIST. INLET 22P2-126D (UIP)
EXIST. 36" PIPE (UIP)
EXIST. STORM MH 22P2-108D (UIP)
EXIST. 36" PIPE (UIP)
EXIST. STORM MH 22P2-086D (UIP)
EXIST. 24" PIPE (UIP)
EXIST. INLET NO MSD ID (UIP)
EXIST. 15" PIPE (UIP)
TREES (DND)
EXIST. 24" PIPE (UIP)
EXIST. SAN. MH 22P2-102S (UIP)
EXIST. INLET 22P2-087D (UIP)
EXIST. 15" PIPE (UIP)
EXIST. BOLLARDS (UIP)
EXIST. SIGN (UIP)
EXIST. INLET 22P2-094D (UIP)
TREES (DND)
EXIST. SAN. MH 22P2-099S (UIP)
EXIST. LIGHT POLE (UIP)
EXIST. 15" PIPE (UIP)
EXIST. INLET 22P2-095D(UIP)
TREES (DND)
EXIST. SIGN (UIP)
EXIST. WALL (UIP)
EXIST. FENCE (UIP)
EXISTING ISLAND (UIP)
EXIST. BOLLARD (UIP)
EXIST. SIGN (UIP)
EXIST. FES 22P2-0180D (UIP)
EXIST. GUARDRAIL (R)
EXIST. DITCH (UIP)
TREES (DND)
EXIST. SIGN (UIP)
EXIST. BOLLARD (UIP)
TREES (DND)
EXIST. DITCH (UIP)
EXIST. FES 22P2-0179D (R)
EXIST. SIGN (UIP)
TYPE S CURB
EXIST. CURB (UIP)
EXIST. LANDSCAPING (UIP)

PROP_100_WB

PI	1457+15.82
PC	1451+21.67
PT	1462+22.51
△	53°27'7.7" (LT)
D	4°51'20.0"
L	1,100.84' (ARC)
T	594.15'
R	1,180.00'

℄_POINTE_DR

PI	6+64.13
PC	6+19.03
PT	7+07.75
△	25°25'0.3" (RT)
D	28°38'52.2"
L	88.72' (ARC)
T	45.10'
R	200.00'

PLAN SHEET LEGEND

- EXISTING RIGHT-OF-WAY (EXIST. ROW)
- PERMANENT EASEMENT (P.H.E.)
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- CONSTRUCTION LIMITS (SL)
- PROPOSED EPOXY URETHANE POLYMER OVERLAY
- SIDEWALK REMOVAL
- PROPOSED SIDEWALK
- PROPOSED MILL/OVERLAY

SHEET 52 OF 54

PLAN SHEET

MO ROUTE 100
MANCHESTER ROAD

DISCLAIMER
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STATE OF MISSOURI
BRIAN D. KIERATH JR.
NUMBER PE-2023008624
PROFESSIONAL ENGINEER
04/01/2025 10:40:49 AM
Brian D. Kierath Jr. - Civil
MO PE-2023008624

DATE PREPARED
4/1/2025

ROUTE	STATE
100	MO
DISTRICT	SHEET NO.
SL	56

COUNTY
ST. LOUIS

JOB NO.
J6P3274

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)

GBA
16305 SWINGLEY RIDGE RD
ST. 300
CHESTERFIELD, MO 63017
314.231.0100
GBAteam.com

GEORGE BUTLER
ASSOCIATES, INC.
PRO. ENGINEER 000133
ARCHITECT 000212
PRO. LAND SURVEYOR 000059

BRIAN KIERATH
PROFESSIONAL
ENGINEER
PE-2023008624

SCALE
0 20 40 60

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22P620571
13303 MANCHESTER RD
N/F
MONTGOMERY BANK
DB 25092, PG 449
NO AQUISITION

54
22P620591
13307 MANCHESTER RD
N/F
HORN LAKE PROPERTIES LLC
DB 14980, PG 1635
SEE SHEET 16

MATCHLINE STA. 1460+00.00

EXIST. SIGN (UIP)
EXIST. INLET (UIP)
EXIST. SAN. MH (UIP)
EXIST. DITCH (UIP)
EXIST. 12IN PIPE (UIP)
EXIST. LIGHT POLE (UIP)
EXIST. STORM MH (UIP)
EXIST. LIGHT POLE (UIP)
EXIST. RETAINING WALL (UIP)
EXIST. LIGHT POLE (UIP)
EXIST. GUARDRAIL (UIP)
EXIST. SIGN (UIP)
EXIST. R/W
TREES (DND)

MATCHLINE STA. 1465+00.00

PT STA 1462+22.51
MILL/OVERLAY
℄ ROUTE 100 WB
S24°18'46"W
+38.47
23.08' RT.

EXIST. WALL (UIP)
EXIST. FENCE (UIP)

22P620342
13431 MANCHESTER RD
N/F
ERNEST PAUL WRIGHT TRUST ETAL
DB 18807, PG 1124
NO AQUISITION

22P620371
13008 PINGRY PL
N/F
CRUZ CHRISTOPHER T
DB 09533, PG 377
NO AQUISITION

PLAN SHEET LEGEND
- EXISTING RIGHT-OF-WAY (EXIST. ROW)
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- PROPOSED SIDEWALK
- PROPOSED MILL/OVERLAY

SHEET 53 OF 54

PLAN SHEET

MO ROUTE 100
MANCHESTER ROAD

STATE OF MISSOURI
BRIAN D. KIERATH JR.
NUMBER PE-2023008624
PROFESSIONAL ENGINEER
04/01/2025 10:40:50 AM
Brian D. Kierath Jr. - Civil
MO PE-2023008624

DATE PREPARED
4/1/2025

ROUTE	STATE
100	MO
DISTRICT	SHEET NO.
SL	57

COUNTY
ST. LOUIS

JOB NO.
J6P3274

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DATE	DESCRIPTION

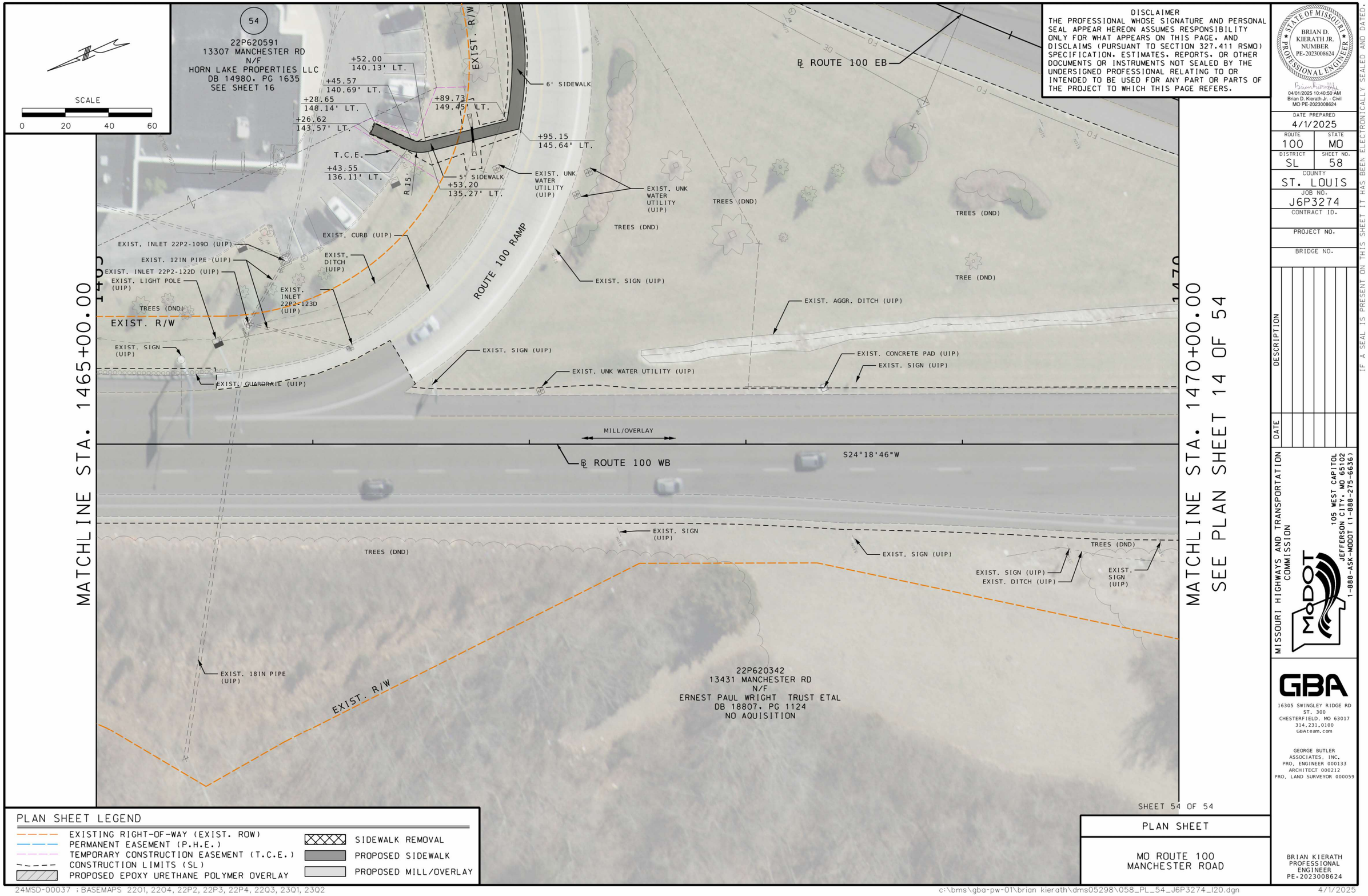
IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

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

GBA
16305 SWINGLEY RIDGE RD
ST, 300
CHESTERFIELD, MO 63017
314.231.0100
GBAteam.com

GEORGE BUTLER
ASSOCIATES, INC.
PRO. ENGINEER 000133
ARCHITECT 000212
PRO. LAND SURVEYOR 000059

BRIAN KIERATH
PROFESSIONAL
ENGINEER
PE-2023008624



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PLAN SHEET LEGEND
- EXISTING RIGHT-OF-WAY (EXIST. ROW)
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- PROPOSED SIDEWALK
- PROPOSED MILL/OVERLAY

SHEET 54 OF 54

PLAN SHEET

MO ROUTE 100
MANCHESTER ROAD

STATE OF MISSOURI
BRIAN D. KIERATH JR.
NUMBER PE-2023008624
PROFESSIONAL ENGINEER
04/01/2025 10:40:50 AM
Brian D. Kierath Jr. - Civil
MO PE-2023008624

DATE PREPARED
4/1/2025

ROUTE	STATE
100	MO
DISTRICT	SHEET NO.
SL	58

COUNTY
ST. LOUIS

JOB NO.
J6P3274

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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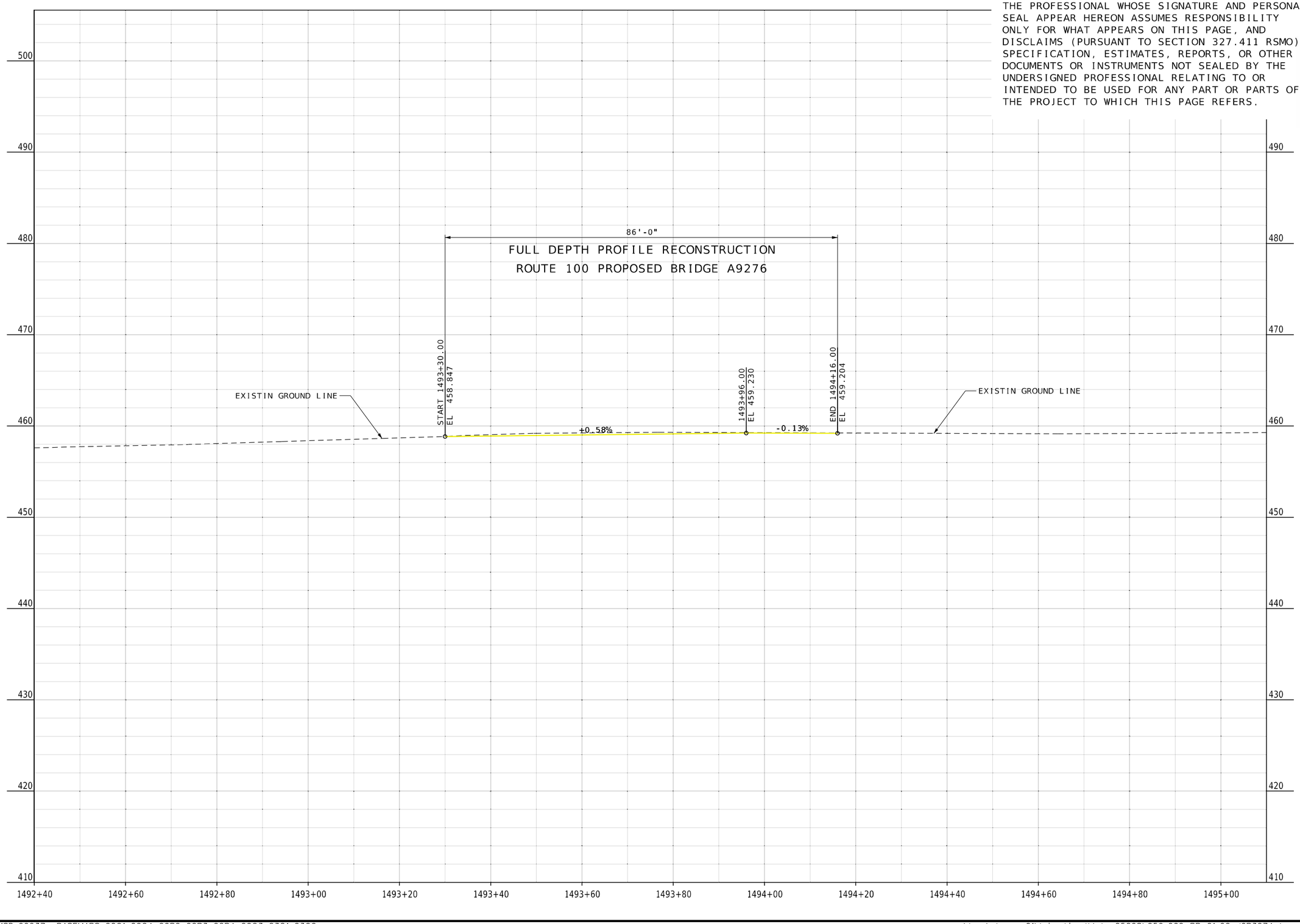

STATE OF MISSOURI
BRIAN D. KIERATH JR.
NUMBER PE-2023008624
PROFESSIONAL ENGINEER

04/01/2025 10:40:51 AM
Brian D. Kierath Jr. - Civil
MO PE-2023008624

DATE PREPARED
4/1/2025

ROUTE	STATE
100	MO
DISTRICT	SHEET NO.
SL	59

COUNTY
ST. LOUIS

JOB NO.
J6P3274

CONTRACT ID.

PROJECT NO.

BRIDGE NO.
A2976

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)

GBA
16305 SWINGLEY RIDGE RD
ST. 300
CHESTERFIELD, MO 63017
314.231.0100
GBAteam.com

GEORGE BUTLER
ASSOCIATES, INC.
PRO. ENGINEER 000133
ARCHITECT 000212
PRO. LAND SURVEYOR 000059

BRIAN KIERATH
PROFESSIONAL
ENGINEER
PE-2023008624

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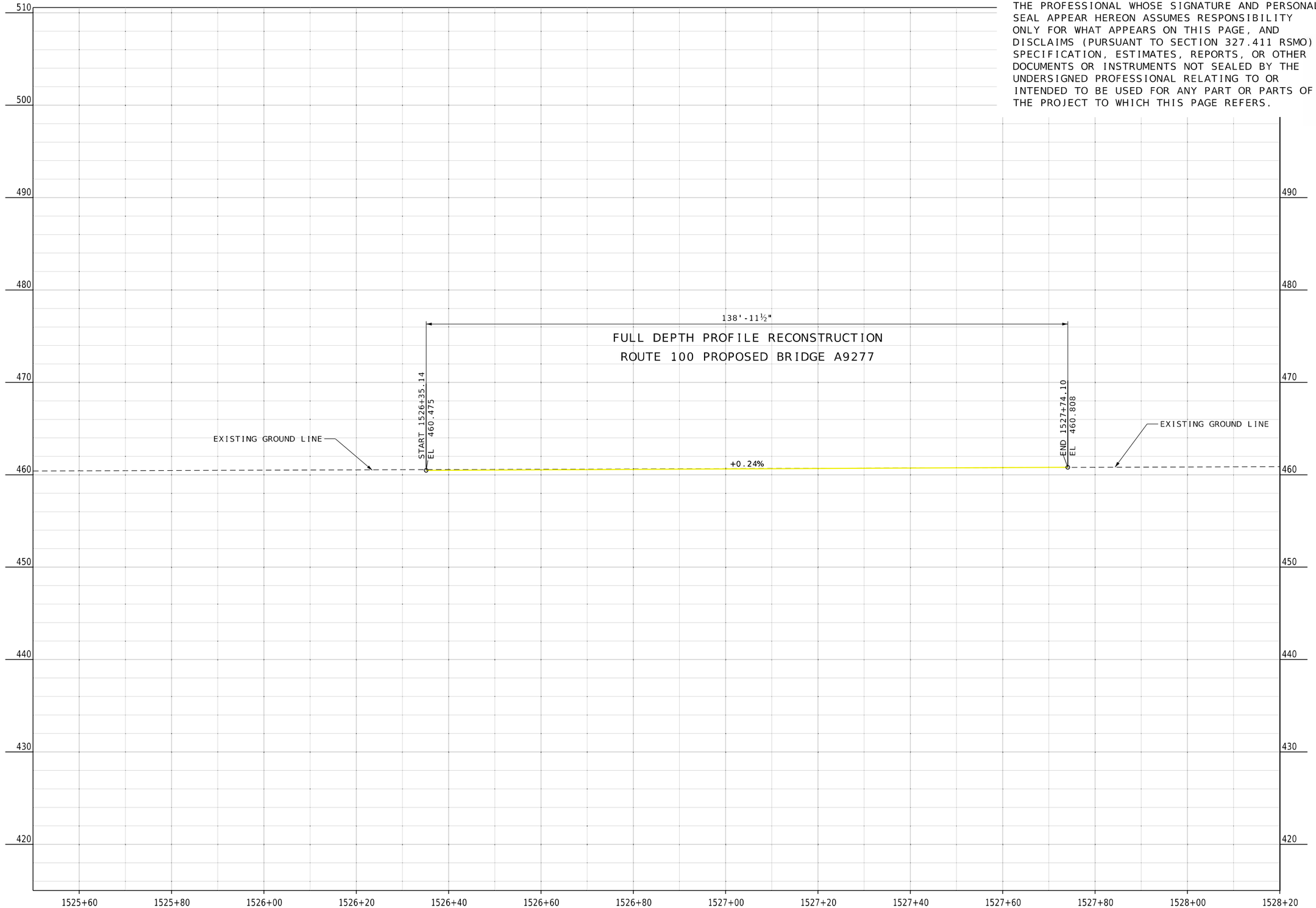

STATE OF MISSOURI
BRIAN D. KIERATH JR.
NUMBER PE-2023008624
PROFESSIONAL ENGINEER

04/01/2025 10:40:51 AM
Brian D. Kierath Jr. - Civil
MO PE-2023008624

DATE PREPARED
4/1/2025

ROUTE	STATE
100	MO
DISTRICT	SHEET NO.
SL	60

COUNTY
ST. LOUIS

JOB NO.
J6P3274

CONTRACT ID.
.

PROJECT NO.
.

BRIDGE NO.
A2977

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)

GBA
16305 SWINGLEY RIDGE RD
ST. 300
CHESTERFIELD, MO 63017
314.231.0100
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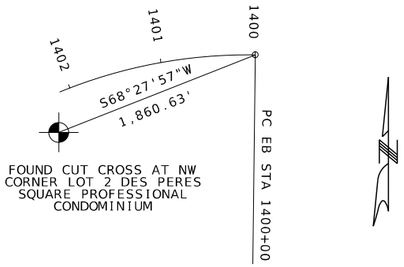
GEORGE BUTLER
ASSOCIATES, INC.
PRO. ENGINEER 000133
ARCHITECT 000212
PRO. LAND SURVEYOR 000059

SCALE

0 20 40 60

LAND TIE #1

LAND CORNER TIE:
FOUND CUT CROSS AT THE NORTHWESTERN CORNER OF
LOT 2 OF DES PERES CONDOMINIUM PROFESSIONAL CENTER
PB 351 PG 84
1,860.60 FEET SOUTHWEST OF BASELINE STATION 1400+00
PROJECT COORDINATES
N:1008026.775 E:833781.879



FOUND CUT CROSS AT NW
CORNER LOT 2 DES PERES
SQUARE PROFESSIONAL
CONDOMINIUM

PROP_100	
PI	1402+23.40
PC	1400+00.00
PT	1404+40.81
Δ	22°57'37.4" (LT)
D	5°12'31.3"
L	440.81' (ARC)
T	223.40'
R	1,100.00'

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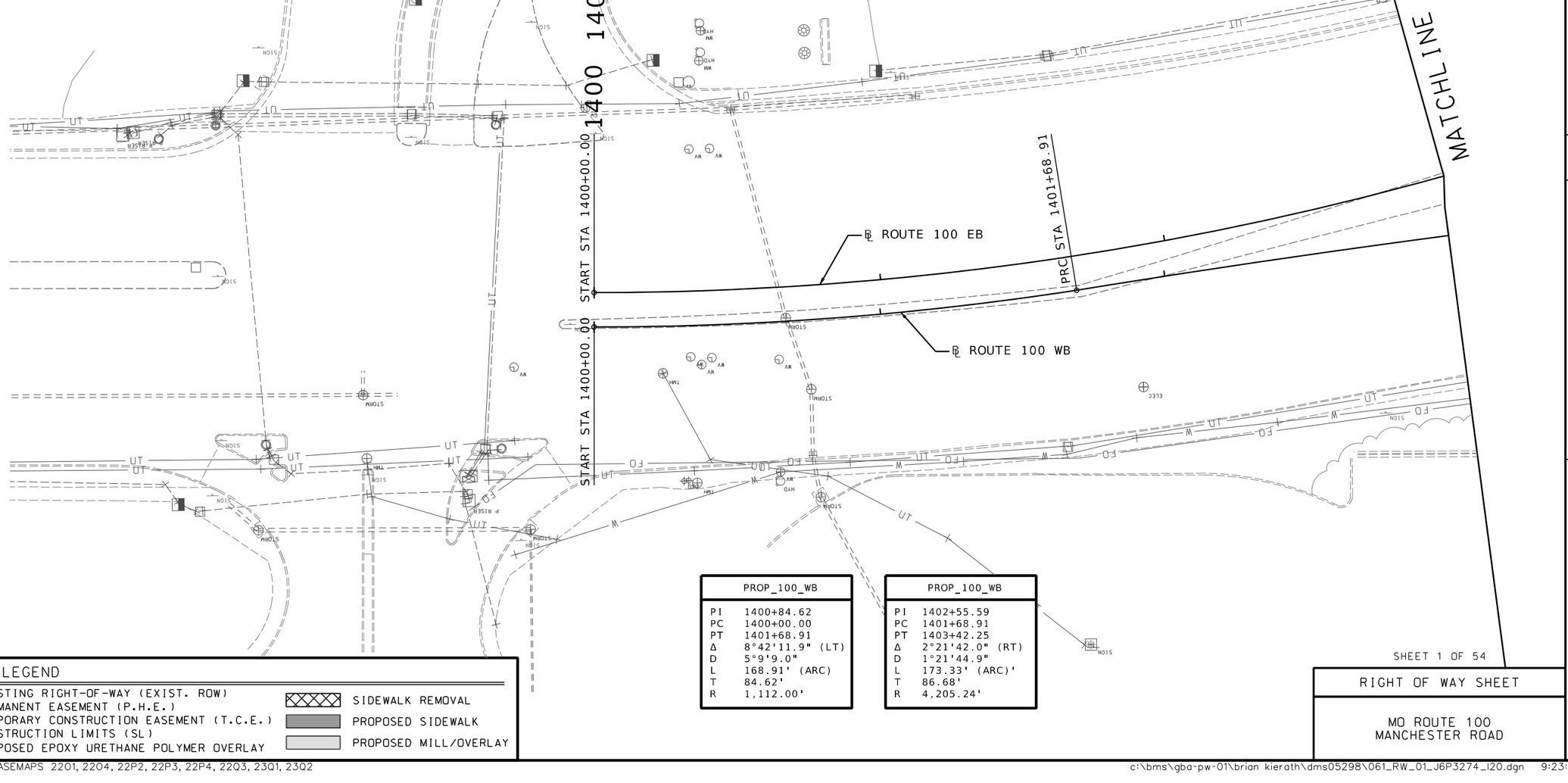

PROP_100_WB	
PI	1400+84.62
PC	1400+00.00
PT	1401+68.91
Δ	8°42'11.9" (LT)
D	5°9'9.0"
L	168.91' (ARC)
T	84.62'
R	1,112.00'

PROP_100_WB	
PI	1402+55.59
PC	1401+68.91
PT	1403+42.25
Δ	2°21'42.0" (RT)
D	1°21'44.9"
L	173.33' (ARC)'
T	86.68'
R	4,205.24'

ROW SHEET LEGEND

- EXISTING RIGHT-OF-WAY (EXIST. ROW)
- PERMANENT EASEMENT (P.H.E.)
- TEMPORARY CONSTRUCTION EASEMENT (T.C.E.)
- CONSTRUCTION LIMITS (SL)
- PROPOSED EPOXY URETHANE POLYMER OVERLAY
- SIDEWALK REMOVAL
- PROPOSED SIDEWALK
- PROPOSED MILL/OVERLAY

SHEET 1 OF 54

RIGHT OF WAY SHEET

MO ROUTE 100
MANCHESTER ROAD

STATE OF MISSOURI
BRIAN D. KIERATH JR.
NUMBER PE-2023008624
PROFESSIONAL ENGINEER
04/01/2025 10:40:51 AM
Brian D. Kierath Jr. - Civil
MO PE-2023008624

DATE PREPARED
4/1/2025

ROUTE	STATE
100	MO
DISTRICT	SHEET NO.
SL	61

COUNTY
ST. LOUIS

JOB NO.
J6P3274

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)

GBA
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GBAteam.com

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ASSOCIATES, INC.
PRO. ENGINEER 000133
ARCHITECT 000212
PRO. LAND SURVEYOR 000059

BRIAN KIERATH
PROFESSIONAL
ENGINEER
PE-2023008624

24MSD-00037 ; BASEMAPS 22Q1, 22Q4, 22P2, 22P3, 22P4, 22Q3, 23Q1, 23Q2

c:\bms\gba-pw-01\brian kierath\dms05298\061_RW_01_J6P3274_I20.dgn 9:23:43 AM 4/1/2025

SCALE

0 20 40 60

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MATCHLINE STA. 1403+00.00

MATCHLINE STA. 1408+00.00

I-270 RAMP

PCC STA 1403+42.25

PT STA 1404+40.81

PT STA 1407+53.77

℄ ROUTE 100 EB

℄ ROUTE 100 WB

1405

PROP_100_WB	
PI	1405+49.51
PC	1403+42.25
PT	1407+53.77
△	16°50'30.8" (RT)
D	4°5'33.2"
L	411.52' (ARC)
T	207.26'
R	1,400.00'

ROW SHEET LEGEND

- EXISTING RIGHT-OF-WAY (EXIST. ROW)
- PERMANENT EASEMENT (P.H.E.)
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- PROPOSED SIDEWALK
- PROPOSED MILL/OVERLAY

SHEET 2 OF 54

RIGHT OF WAY SHEET

MO ROUTE 100
MANCHESTER ROAD

STATE OF MISSOURI
BRIAN D. KIERATH JR.
NUMBER PE-2023008624
PROFESSIONAL ENGINEER

04/01/2025 10:40:52 AM
Brian D. Kierath Jr. - Civil
MO PE-2023008624

DATE PREPARED
4/1/2025

ROUTE	STATE
100	MO
DISTRICT	SHEET NO.
SL	62

COUNTY
ST. LOUIS

JOB NO.
J6P3274

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PROJECT NO.

BRIDGE NO.

DATE	DESCRIPTION

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ARCHITECT 000212
PRO. LAND SURVEYOR 000059

BRIAN KIERATH
PROFESSIONAL
ENGINEER
PE-2023008624

SCALE
0 20 40 60

DISCLAIMER
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MATCHLINE STA. 1408+00.00

MATCHLINE STA. 1413+00.00

1410

I-270

I-270 RAMP

BRIDGE A09602

BEGIN PROJECT
STA 1410+10.38
BEGIN EPOXY URETHANE POLYMER OVERLAY

℄ ROUTE 100 EB

S67°44'22"W

ROW SHEET LEGEND

- EXISTING RIGHT-OF-WAY (EXIST. ROW)
- PERMANENT EASEMENT (P.H.E.)
- TEMPORARY CONSTRUCTION EASEMENT (T.C.E.)
- CONSTRUCTION LIMITS (SL)
- PROPOSED EPOXY URETHANE POLYMER OVERLAY
- SIDEWALK REMOVAL
- PROPOSED SIDEWALK
- PROPOSED MILL/OVERLAY

SHEET 3 OF 54

RIGHT OF WAY SHEET

MO ROUTE 100
MANCHESTER ROAD

STATE OF MISSOURI
BRIAN D. KIERATH JR.
NUMBER PE-2023008624
PROFESSIONAL ENGINEER
04/01/2025 10:40:52 AM
Brian D. Kierath Jr. - Civil
MO PE-2023008624

DATE PREPARED
4/1/2025

ROUTE	STATE
100	MO
DISTRICT	SHEET NO.
SL	63

COUNTY
ST. LOUIS

JOB NO.
J6P3274

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)

GBA
16305 SWINGLEY RIDGE RD
ST. 300
CHESTERFIELD, MO 63017
314.231.0100
GBAteam.com

GEORGE BUTLER
ASSOCIATES, INC.
PRO. ENGINEER 000133
ARCHITECT 000212
PRO. LAND SURVEYOR 000059

BRIAN KIERATH
PROFESSIONAL
ENGINEER
PE-2023008624

SCALE
0 20 40 60

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MATCHLINE STA. 1413+00.00

MATCHLINE STA. 1418+00.00

1415

I-270 RAMP

77

220230621
1050 OLD DES PERES RD
N/F
DES PERES SQUARE PROFESSIONAL CONDOMINIUM
DB 23914, PG 1177
607 SF T.C.E.
516855 SF ORIGINAL
516855 SF REMAINING

EXIST. R/W

STA 1417+37.19
OFF 67.00' LT.

S67°44'22"W
L = 88.79'

T.C.E.

N80°28'16"E
L = 15.16'

STA 1417+51.98
OFF 63.66' LT.

N67°47'16"E
L = 120.20'

℄ ROUTE 100 EB

STA 1413+08.20
END EPOXY URETHANE POLYMER OVERLAY

I-270 RAMP

EXIST. R/W

EXIST. R/W

220510516
12800 MANCHESTER RD
N/F
MH EXCHANGE V LLC
DB 22324 PG 1439
NO ACQUISITION

ROW SHEET LEGEND

- EXISTING RIGHT-OF-WAY (EXIST. ROW)
- PERMANENT EASEMENT (P.H.E.)
- TEMPORARY CONSTRUCTION EASEMENT (T.C.E.)
- CONSTRUCTION LIMITS (SL)
- PROPOSED EPOXY URETHANE POLYMER OVERLAY
- SIDEWALK REMOVAL
- PROPOSED SIDEWALK
- PROPOSED MILL/OVERLAY

SHEET 4 OF 54

RIGHT OF WAY SHEET

MO ROUTE 100
MANCHESTER ROAD

STATE OF MISSOURI
BRIAN D. KIERATH JR.
NUMBER PE-2023008624
PROFESSIONAL ENGINEER
04/01/2025 10:40:52 AM
Brian D. Kierath Jr. - Civil
MO PE-2023008624

DATE PREPARED
4/1/2025

ROUTE	STATE
100	MO
DISTRICT	SHEET NO.
SL	64

COUNTY
ST. LOUIS

JOB NO.
J6P3274

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)

GBA
16305 SWINGLEY RIDGE RD
ST. 300
CHESTERFIELD, MO 63017
314.231.0100
GBAteam.com

GEORGE BUTLER
ASSOCIATES, INC.
PRO. ENGINEER 000133
ARCHITECT 000212
PRO. LAND SURVEYOR 000059

BRIAN KIERATH
PROFESSIONAL
ENGINEER
PE-2023008624

SCALE
0 20 40 60

77
220230621
1050 OLD DES PERES RD
N/F
DES PERES SQUARE
PROFESSIONAL CONDOMINIUM
DB 23914, PG 1177
SEE SHEET 64

78
220510314
12796 MANCHESTER RD
N/F
ROSALITAS CANTINA DES
PERES HOLDINGS LLC
DB 21796 PG 2972
1,164 SF T.C.E.
63503 SF ORIGINAL
63503 SF REMAINING

76
220510305
12804 MANCHESTER RD
N/F
MANCHE REAL ESTATE PARTNERSHIP II, LP
DB 13983 PG 1140
253 SF T.C.E.
67173 SF ORIGINAL
67173 SF REMAINING

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04/01/2025 10:40:53 AM
Brian D. Kierath Jr. - Civil
MO PE-2023008624

DATE PREPARED
4/1/2025

ROUTE	STATE
100	MO
DISTRICT	SHEET NO.
SL	65

COUNTY
ST. LOUIS

JOB NO.
J6P3274

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)

GBA
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ST. 300
CHESTERFIELD, MO 63017
314.231.0100
GBAteam.com

GEORGE BUTLER
ASSOCIATES, INC.
PRO. ENGINEER 000133
ARCHITECT 000212
PRO. LAND SURVEYOR 000059

BRIAN KIERATH
PROFESSIONAL
ENGINEER
PE-2023008624

MATCHLINE STA. 1418+00.00

MATCHLINE STA. 1423+00.00

OLD DES PERES RD

EXIST. R/W

STA 1420+05.98
OFF 102.59' LT.
N71°06'59"W
L = 8.00'

STA 1420+12.00
OFF 97.32' LT.

PC STA 1420+68.71

℄ ROUTE 100 EB

L = 78.02'
R = 92.00'

L = 84.84'
R = 100.00'

81°39'23"

85°58'30"

90°

DRWY
STA. 1418+72.00 LT
NO IMPROVEMENTS

DRWY
STA. 1419+98.00 RT
NO IMPROVEMENTS

DRWY
STA. 1422+33.00 LT
NO IMPROVEMENTS

S67°44'22"W
L = 88.79'

STA 1418+25.98
OFF 67.00' LT.

S53°44'38"W
18.94'

STA 1418+44.35
OFF 71.58' LT.

N67°47'16"E
L = 120.20'

N67°47'16"E
29.24'

N12°13'12"W
L = 8.12'

STA 1418+72.18
OFF 63.56' LT.

STA 1418+73.60
OFF 71.56' LT.

N67°47'16"E
63.35'

N67°47'16"E
L = 64.76'

STA 1419+36.95
OFF 71.50' LT.

STA 1419+36.95
OFF 63.50' LT.

STA 1421+84.00
OFF 67.22' LT.

N89°13'44"W
L = 37.47'

S53°41'14"E
L = 12.41'

STA 1421+91.23
OFF 57.48' LT.

L = 28.31'
R = 1101.74'

STA 1422+18.00
OFF 57.24' LT.

STA 1422+48.00
OFF 60.00' LT.

S78°31'40"W
L = 19.08'

STA 1422+66.00
OFF 60.00' LT.

S11°59'17"E
L = 2.99'

STA 1422+48.00
OFF 57.01' LT.

L = 19.03'
R = 1101.74'

STA 1422+66.00
OFF 56.89' LT.

N10°57'24"W
L = 3.11'

EXIST. R/W

220510516
12800 MANCHESTER RD
N/F
MH EXCHANGE V LLC
DB 22324 PG 1439
NO ACQUISITION

220510482
12701 MANCHESTER RD A
N/F
MH EXCHANGE V LLC
DB 22324 PG 1439
NO ACQUISITION

220510543
12803 MANCHESTER RD
N/F
MH EXCHANGE V LLC
DB 22324 PG 1430
NO ACQUISITION

220510507
12805 MANCHESTER RD
N/F
MH EXCHANGE V LLC
DB 22324 PG 1430
NO ACQUISITION

PROP_100	
PI	1424+55.33
PC	1420+68.71
PT	1428+06.55
△	42°16'30.3" (RT)
D	5°43'46.4"
L	737.84' (ARC)
T	386.62'
R	1,000.00'

ROW SHEET LEGEND
- EXISTING RIGHT-OF-WAY (EXIST. ROW)
- PERMANENT EASEMENT (P.H.E.)
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- CONSTRUCTION LIMITS (SL)
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- SIDEWALK REMOVAL
- PROPOSED SIDEWALK
- PROPOSED MILL/OVERLAY

SHEET 5 OF 54

RIGHT OF WAY SHEET

MO ROUTE 100
MANCHESTER ROAD

24MSD-00037 ; BASEMAPS 22O1, 22O4, 22P2, 22P3, 22P4, 22Q3, 23Q1, 23Q2

c:\bms\gba-pw-01\brian kierath\dms05298\065_RW_05_J6P3274_120.dgn 9:24:49 AM 4/1/2025

SCALE
0 20 40 60

76

220510305
12804 MANCHESTER RD
N/F
MANCHE REAL ESTATE
PARTNERSHIP II, LP
DB 13983 PG 1140
SEE SHEET 65

220230575
1050 DES PERES RD
N/F
CITY OF DES PERES
DB 13707 PG 573
NO ACQUISITION

DES PERES RD

EXIST. R/W

1425

DRWY
STA. 1423+99.00 LT
NO IMPROVEMENTS

S07°17'23"E
L = 3.43'
STA 1423+30.00
OFF 60.00' LT.

STA 1423+30.00
OFF 56.57' LT.
L = 17.96'
R = 1101.74'
STA 1423+47.00
OFF 56.51' LT.
S83°11'50"W
L = 18.02'
STA 1423+47.00
OFF 60.00' LT
STA 1423+47.00
OFF 56.51' LT
N06°18'57"W
L = 3.49'

124°19'43"

℄ ROUTE 100 EB

BRIDGE A50161

STA 1425+62.55
BEGIN EPOXY URETHANE
POLYMER OVERLAY

MUD/FOAM JACK
APPROACH SLAB

STA 1426+84.33
END EPOXY URETHANE POLYMER OVERLAY

MATCHLINE STA. 1423+00.00

MATCHLINE STA. 1428+00.00

220510507
12805 MANCHESTER RD
N/F
MH EXCHANGE V LLC
DB 22324 PG 1430
NO ACQUISITION

220510394
1119 SATEEN DR A
N/F
CREST DEVELOPMENT CO &
WAYCLIFFE DEVELOPMENT CORP
DB 6872 PG 1415
NO ACQUISITION

220510406
12833 MANCHESTER RD
N/F
STEINER LEROY M
DB 20973, PG 1066
NO ACQUISITION

220510406
12829 MANCHESTER RD
N/F
CREST DEVELOPMENT CO
DB 06872, PG 1415
NO ACQUISITION

PROP_100	
PI	1424+55.33
PC	1420+68.71
PT	1428+06.55
△	42°16'30.3" (RT)
D	5°43'46.4"
L	737.84' (ARC)
T	386.62'
R	1,000.00'

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ROW SHEET LEGEND
- EXISTING RIGHT-OF-WAY (EXIST. ROW)
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- CONSTRUCTION LIMITS (SL)
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- SIDEWALK REMOVAL
- PROPOSED SIDEWALK
- PROPOSED MILL/OVERLAY

SHEET 6 OF 54

RIGHT OF WAY SHEET

MO ROUTE 100
MANCHESTER ROAD

STATE OF MISSOURI
BRIAN D. KIERATH JR.
NUMBER PE-2023008624
PROFESSIONAL ENGINEER
04/01/2025 10:40:53 AM
Brian D. Kierath Jr. - Civil
MO PE-2023008624

DATE PREPARED
4/1/2025

ROUTE	STATE
100	MO
DISTRICT	SHEET NO.
SL	66

COUNTY
ST. LOUIS

JOB NO.
J6P3274

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)

GBA
16305 SWINGLEY RIDGE RD
ST. 300
CHESTERFIELD, MO 63017
314.231.0100
GBAteam.com

GEORGE BUTLER
ASSOCIATES, INC.
PRO. ENGINEER 000133
ARCHITECT 000212
PRO. LAND SURVEYOR 000059

BRIAN KIERATH
PROFESSIONAL
ENGINEER
PE-2023008624

SCALE
0 20 40 60

ROUTE 100 RAMP

ROUTE 100 RAMP

EXIST. MSD ESM'T

220420637
12850 MANCHESTER RD
N/F
CAPE COD, LLC
DB 17703, PG 3015
NO ACQUISITION

75

220420664
12878 MANCHESTER RD
N/F
BAH INVESTMENTS LLC
DB 19800, PG 190
84 SF P.H.E.
187 SF T.C.E.
93011 SF ORIGINAL
93011 SF REMAINING

EXIST. ACCESS
EXIST. ESM'T

DRWY
STA. 1431+61.00 LT
NO IMPROVEMENTS

EXIST. MSD ESM'T

1430

EXIST. R/W

MILL/OVERLAY
LIMITS

MATCHLINE STA. 1428+00.00

PT STA 1428+06.55

℄ ROUTE 100 EB

STA 1429+65.65
BEGIN MILL/OVERLAY

STA 1429+58.08
OFF 40.29' RT.

N69°59'08"W

110°51'36"

90°

MATCHLINE STA. 1433+00.00

EXIST. R/W

S20°00'52"W
L = 4.71'

T.C.E

EXIST. R/W

T.C.E

STA 1429+58.08
OFF 45.00' RT.

S69°59'08"E
L = 275.25'

N70°00'32"W
L = 380.22'

DRWY
STA. 1431+76.00 RT
NO IMPROVEMENTS

STA 1432+33.33
OFF 45.00' RT.
S47°41'35"E
L = 15.82'
STA 1432+47.97
OFF 51.00' RT.

S69°59'08"E
L = 105.42'

74

220420691
1011 DES PERES RD
N/F
FRANKLIN MANCHESTER RD, LLC
DB 24300, PG 39823600
3,600 SF T.C.E.
475681 SF ORIGINAL
475681 SF REMAINING

220510406
12833 MANCHESTER RD
N/F
STEINER LEROY M
DB 20973, PG 1066
NO ACQUISITION

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ROW SHEET LEGEND
- EXISTING RIGHT-OF-WAY (EXIST. ROW)
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- CONSTRUCTION LIMITS (SL)
- PROPOSED EPOXY URETHANE POLYMER OVERLAY
- SIDEWALK REMOVAL
- PROPOSED SIDEWALK
- PROPOSED MILL/OVERLAY

SHEET 7 OF 54

RIGHT OF WAY SHEET

MO ROUTE 100
MANCHESTER ROAD

STATE OF MISSOURI
BRIAN D. KIERATH JR.
NUMBER PE-2023008624
PROFESSIONAL ENGINEER
04/01/2025 10:40:53 AM
Brian D. Kierath Jr. - Civil
MO PE-2023008624

DATE PREPARED
4/1/2025

ROUTE	STATE
100	MO
DISTRICT	SHEET NO.
SL	67

COUNTY
ST. LOUIS

JOB NO.
J6P3274

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)

GBA
16305 SWINGLEY RIDGE RD
ST. 300
CHESTERFIELD, MO 63017
314.231.0100
GBAteam.com

GEORGE BUTLER
ASSOCIATES, INC.
PRO. ENGINEER 000133
ARCHITECT 000212
PRO. LAND SURVEYOR 000059

BRIAN KIERATH
PROFESSIONAL
ENGINEER
PE-2023008624

SCALE
0 20 40 60

PROP_100	
PI	1436+11.62
PC	1433+53.39
PT	1438+67.87
Δ	12°16'55.8" (LT)
D	2°23'14.3"
L	514.47' (ARC)
T	258.23'
R	2,400.00'

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BRIAN D. KIERATH JR.
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04/01/2025 10:40:54 AM
Brian D. Kierath Jr. - Civil
MO PE-2023008624

DATE PREPARED 4/1/2025
ROUTE 100 | STATE MO
DISTRICT SL | SHEET NO. 68
COUNTY ST. LOUIS
JOB NO. J6P3274
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
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PRO. ENGINEER 000133
ARCHITECT 000212
PRO. LAND SURVEYOR 000059

BRIAN KIERATH
PROFESSIONAL ENGINEER
PE-2023008624

MATCHLINE STA. 1433+00.00

MATCHLINE STA. 1438+00.00

SARALA RD

JONCLIF LN

EXIST. MSD ESM'T

EXIST. R/W

EXIST. R/W

75
220420664
12878 MANCHESTER RD
N/F
BAH INVESTMENTS LLC
DB 19800, PG 190
SEE SHEET 67

71
220420756
12990 MANCHESTER RD
N/F
DES PERES MEDICAL OFFICE BUILDING LLC
DB 16990, PG 1860
1,658 SF T.C.E.
240305 SF ORIGINAL
240305 SF REMAINING

STA 1433+55.00 OFF 55.00'
N81°14'03"E L = 29.15' L = 25.05' R = 17.00'
STA 1433+81.32 OFF 68.88'
N89°49'01"W L = 3.24'
STA 1433+84.47 OFF 69.94'

STA 1434+44.82 OFF 72.90' LT. N89°22'31"W L = 3.00'
STA 1434+47.77 OFF 73.79' LT. N00°37'29"E L = 33.06'
S00°37'29"W L = 30.11'

L = 175.78' R = 2355.00'
L = 325.25' R = 2515.60'

1435

DRWY
STA. 1436+69.00 LT
NO IMPROVEMENTS

DRWY
STA. 1437+89.00 LT
27' WIDE PAVED APPROACH (8")
GRADE = 1.0% (5'ADA PATH) / 1.0% AT ℄

STA 1437+82.78 OFF 60.00' LT. L 7.59' R 2340.00'
STA 1437+75.00 OFF 60.00' LT. S54°29"41"W L = 20.98'
STA 1437+03.53 OFF 49.00' LT. N11°39'20"E L = 4.00'
L = 66.20' R = 2351.00'

P.H.E.
T.C.E
T.C.E
T.C.E
EXIST. R/W

PC STA 1433+53.39
STA 1433+55.00 OFF 50.25' S19°58'34"W L = 4.75' L = 8.96' R = 2465.60'
STA 1433+64.15 OFF 50.37' S18°59'34"W L = 3.00'
STA 1433+64.11 OFF 53.37' L = 30.81' R = 20.00'

STA 1434+56.81 OFF 45.00' LT.
STA 1434+54.77 OFF 41.30' LT.
STA 1436+35.95 OFF 49.00' LT. S13°16'08"W L = 4.00'
STA 1436+35.95 OFF 45.00' LT.
STA 1437+03.53 OFF 45.00' LT.

L = 55.41' R = 2355.00'
STA 1437+60.00 OFF 45.00' LT.
N00°39'04"E L = 18.52'
STA 1437+85.77 OFF 41.71' LT.

℄ ROUTE 100 EB
MILL/OVERLAY

90°
90°
90°
82°14'34"
81°23'40"

L = 141.01' R = 2555.42'
L = 137.59' R = 2445.00'

STA 1433+38.30 OFF 40.14' RT.
STA 1434+42.18 OFF 39.59' RT.

EXIST. R/W
T.C.E
EXIST. R/W
T.C.E

EXIST. GAS ESM'T

DRWY
STA. 1437+06.00 RT
NO IMPROVEMENTS
STA 1437+31.74 OFF 39.03' RT. S00°38'37"W L = 6.06'

DRWY
STA. 1437+54.00 LT
32' WIDE PAVED APPROACH (8")
GRADE = 1.5% (5'ADA PATH) / 4.00% AT ℄
STA 1437+32.81 OFF 45.00' RT.

N70°00'32"W L = 380.22'
S69°59'08"E L = 105.42'
STA 1433+53.39 OFF 51.00' RT.
L = 94.21' R = 2451.00'
L = 105.35' R = 2555.42'
S00°38'37"W 5.66'
STA 1434+43.82 OFF 45.00' RT.
S00°38'37"W L = 6.28'
STA 1434+45.64 OFF 51.00' RT.

DRWY
STA. 1437+85.00 RT
NO IMPROVEMENTS

L = 294.29' R = 2555.42'
L 294.40' R 2445.00'

74
220420691
1011 DES PERES RD
N/F
FRANKLIN MANCHESTER RD, LLC
DB 24300, PG 3982
SEE SHEET 67

73
220420701
12969 MANCHESTER RD
N/F
WHITE CO MANCHESTER, 1 LLC
DB 22360, PG 2206
1,714 SF T.C.E.
169310 SF ORIGINAL
169310 SF REMAINING

72
220420747
13001 MANCHESTER RD
N/F
RRG 28, LLC
DB 21676, PG 133
1,353 SF T.C.E.
106046 SF ORIGINAL
106046 SF REMAINING

ROW SHEET LEGEND
- EXISTING RIGHT-OF-WAY (EXIST. ROW)
- PERMANENT EASEMENT (P.H.E.)
- TEMPORARY CONSTRUCTION EASEMENT (T.C.E.)
- CONSTRUCTION LIMITS (SL)
- PROPOSED EPOXY URETHANE POLYMER OVERLAY
- SIDEWALK REMOVAL
- PROPOSED SIDEWALK
- PROPOSED MILL/OVERLAY

SHEET 8 OF 54

RIGHT OF WAY SHEET

MO ROUTE 100
MANCHESTER ROAD

SCALE
0 20 40 60

70
220420282
13000 MANCHESTER RD
N/F
N/F LEGACY ENTERPRISES
DB 22863, PG 481
528 SF T.C.E.
16536 SF ORIGINAL
16536 SF REMAINING

69
220420646
13030 MANCHESTER RD
N/F
HONG'S REAL ESTATES HOLDING LLC
DB 21868, PG 3236
749 SF P.H.E.
582 SF T.C.E.
22714 SF ORIGINAL
22714 SF REMAINING

PROP_100	
PI	1443+58.33
PC	1439+30.31
PT	1447+74.79
△	23°2'25.6" (LT)
D	2°43'42.1"
L	844.48' (ARC)
T	428.02'
R	2,100.00'

F
220420194
13018 MANCHESTER RD
N/F
KHOURI SUHAIL & MAHA K H/W
DB 18768, PG 1695
NO ACQUISITION

E
220420224
13016 MANCHESTER RD
N/F
KHOURI REVOCABLE TRUST
DB 20127, PG 1109
NO ACQUISITION

D
220420242
13014 MANCHESTER RD
N/F
KHOURI REVOCABLE TRUST
DB 20127, PG 1109
NO ACQUISITION

C
220420293
13012MANCHESTER RD
N/F
KHOURI SUHAIL A & MAHA K H/W
DB 18768, PG 1695
NO ACQUISITION

B
220420233
13010 MANCHESTER R
N/F
KHOURI REVOCABLE TRUSTD
DB 20127, PG 1109
NO ACQUISITION

A
220420271
13008 MANCHESTER RD
N/F
KHOURI REVOCABLE TRUST
DB 20127, PG 1109
NO ACQUISITION

68
VOID
220410591
13090 MANCHESTER RD
N/F
LARRY & ALEKA KARAGIANNIS INVESTMENT LLC
DB 21783, PG 245
NO ACQUISITION

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STATE OF MISSOURI
BRIAN D. KIERATH JR.
NUMBER PE-2023008624
PROFESSIONAL ENGINEER
04/01/2025 10:40:54 AM
Brian D. Kierath Jr. - Civil
MO PE-2023008624

DATE PREPARED 4/1/2025
ROUTE 100 | STATE MO
DISTRICT SL | SHEET NO. 69
COUNTY ST. LOUIS
JOB NO. J6P3274
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)

GBA
16305 SWINGLEY RIDGE RD
ST. 300
CHESTERFIELD, MO 63017
314.231.0100
GBAteam.com
GEORGE BUTLER ASSOCIATES, INC.
PRO. ENGINEER 000133
ARCHITECT 000212
PRO. LAND SURVEYOR 000059

BRIAN KIERATH
PROFESSIONAL ENGINEER
PE-2023008624

MATCHLINE STA. 1438+00.00
MATCHLINE STA. 1443+00.00
1440
PC STA 1439+30.31
PT STA 1438+67.87
STA 1438+67.87 OFF 45.00' RT.
STA 1438+70.53 OFF 39.34' RT.
STA 1439+30.31 OFF 45.00' RT.
STA 1439+66.52 OFF 45.00' RT.
STA 1439+65.98 OFF 39.88' RT.
STA 14+45.96 WESTMARK DR.= STA. 1441+46.18 ROUTE 100
℄ ROUTE 100 EB
104°40'53"
90°03'16"
N82°16'04"W
S82°16'04"E
S07°43'56"W 70.97'
S83°11'35"E
MILL/OVERLAY
P.H.E.
EXIST. GAS ESM'T
EXIST. R/W
T.C.E.
DRWY STA. 1438+74.00 LT 29' WIDE PAVED APPROACH (8") GRADE = 1.5% (6'ADA PATH) / 4.0% AT ℄
DRWY STA. 1439+40.00 LT NO IMPROVEMENTS
DRWY STA. 1440+09.00 LT NO IMPROVEMENTS
DRWY STA. 1441+41.00 LT NO IMPROVEMENTS
DRWY STA. 1439+47.00 RT 32' WIDE PAVED APPROACH (8") GRADE = 1.5% (5'ADA PATH) / 4.00% AT ℄
DRWY STA. 1440+01.00 LT NO IMPROVEMENTS
EXIST. ELEC. ESM'T
EXIST. GAS ESM'T
EXIST. ELECTRIC ESM'T
EXIST. UTILITY ESM'T
WESTMARK DR
EXIST. R/W

LAND TIE #2:
LAND CORNER TIE:
FOUND IRON PIPE WITH CAP JAMES LS 129D
AT SOUTHEASTERN CORNER OF
LOT 1 OF PRC INVESTMENTS, LC SUBDIVISION
PB 351 PG 111
2,516.81 FEET SOUTHWEST OF BASELINE
STATION 1439+00
PROJECT COORDINATES
N:1007054.971 E:829630.060
1440 1439 1438
S60°02'50"W 2516.81'
FOUND IP AT SW CORNER LOT 1 OF PRC INVESTMENTS, LC SUBDIVISION

72
220420747
13001 MANCHESTER RD
N/F
RRG 28, LLC
DB 21676, PG 133
SEE SHEET 68

67
VOID
220420408
13009 MANCHESTER RD
N/F
MEIER MANCHESTER LLC
DB 19647, PG 4695
NO ACQUISITION

220420765
13017 MANCHESTER RD
N/F
DES PERES CITY OF
DB 23807, PG 74
NO ACQUISITION

66
220410672, 220410562
13075-13101 MANCHESTER RD
N/F
13075 MANCHESTER RD LLC
DB 23090, PG 3497
1,070 SF T.C.E.
289534 SF ORIGINAL
289534 SF REMAINING

ROW SHEET LEGEND
EXISTING RIGHT-OF-WAY (EXIST. ROW)
PERMANENT EASEMENT (P.H.E.)
TEMPORARY CONSTRUCTION EASEMENT (T.C.E.)
CONSTRUCTION LIMITS (SL)
PROPOSED EPOXY URETHANE POLYMER OVERLAY
SIDEWALK REMOVAL
PROPOSED SIDEWALK
PROPOSED MILL/OVERLAY

SHEET 9 OF 54

RIGHT OF WAY SHEET
MO ROUTE 100
MANCHESTER ROAD

SCALE
0 20 40 60

PROP_100	
PI	1443+58.33
PC	1439+30.31
PT	1447+74.79
△	23°2'25.6" (LT)
D	2°43'42.1"
L	844.48' (ARC)
T	428.02'
R	2,100.00'

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68
VOID
220410591
13090 MANCHESTER RD
N/F
LARRY & ALEKA KARAGIANNIS INVESTMENT LLC
DB 21783, PG 245
NO ACQUISITION

64
220410324
13100 MANCHESTER RD
N/F
OMVESCO LLC
DB 22122, PG 1983
1516 SF T.C.E.
88530 SF ORIGINAL
88530 SF REMAINING

MATCHLINE STA. 1443+00.00

1445

1448+00.00

EXIST. R/W

TOPPING LN

MILL/OVERLAY

℄ ROUTE 100 EB

T.C.E

STA 1446+25.32
OFF 46.00'
N00°34'04"E
L = 3.79'

L = 146.19'
R = 2054.00'
L = 149.63'
R = 1596.28'

DRWY
STA. 1447+84.00 LT
NO IMPROVEMENTS
N74°41'30"E
L = 164.66'
S74°41'30"W
L = 168.42'
STA 1447+74.79
OFF 46.00' LT.

STA 1447+77.12
OFF 41.00' LT.

PT STA 1447+74.79

STA 1446+24.53
OFF 42.29' LT.

STA 1447+78.65
OFF 39.73' RT.
S00°34'37"W
L = 5.48'
STA 1447+77.15
OFF 45.00' RT.

N74°41'30"E
L = 145.86'

L = 9.32'
R = 1840.50'
STA 1444+75.11
OFF 47.41' RT.

STA 1445+76.73
OFF 47.43' RT.

L = 42.59'
R = 1687.02'

L = 3.72'
R = 1687.02'

EXIST. UTILITY
ESM'T

STA 1444+66.00
OFF 47.63' RT.
S06°53'00"E
L = 6.37'
STA 1444+66.00
OFF 54.00' RT.

S81°29'30"W
L= 103.90'

L = 155.25'
R = 2154.00'

STA 1446+18.36
OFF 48.35' RT.
N00°41'17"W
L = 5.75'
STA 1446+17.35
OFF 54.00' RT.
L = 4.77'
R = 2154.00'

STA 1446+22.00
OFF 54.00' RT.
N11°08'22"W
L = 5.58'
STA 1446+22.00
OFF 48.42' RT.

DRWY
STA. 1447+12.00 RT
36' WIDE PAVED
APPROACH (8')
GRADE = 1.5% (5'ADA PATH) / 4.0% AT ℄

EXIST. UTILITY
ESM'T

S74°42'39"W
L = 145.85'

DRWY
STA.
1448+50.00 RT
NO
IMPROVEMENTS

66
220410672, 220410562
13075-13101 MANCHESTER RD
N/F
13075 MANCHESTER RD LLC
DB 23090, PG 3497
SEE SHEET 69

65
220410562
13133 MANCHESTER RD
N/F
KA DES PERES LLC
DB 20846, PG 493
765 SF T.C.E.
75772 SF ORIGINAL
75772 SF REMAINING
SHEET 10 OF 54

ROW SHEET LEGEND
- EXISTING RIGHT-OF-WAY (EXIST. ROW)
- PERMANENT EASEMENT (P.H.E.)
- TEMPORARY CONSTRUCTION EASEMENT (T.C.E.)
- CONSTRUCTION LIMITS (SL)
- PROPOSED EPOXY URETHANE POLYMER OVERLAY
- SIDEWALK REMOVAL
- PROPOSED SIDEWALK
- PROPOSED MILL/OVERLAY

RIGHT OF WAY SHEET

MO ROUTE 100
MANCHESTER ROAD

STATE OF MISSOURI
PROFESSIONAL ENGINEER
BRIAN D. KIERATH JR.
NUMBER PE-2023008624
04/01/2025 10:40:54 AM
Brian D. Kierath Jr. - Civil
MO PE-2023008624

DATE PREPARED 4/1/2025
ROUTE 100 | STATE MO
DISTRICT SL | SHEET NO. 70
COUNTY ST. LOUIS
JOB NO. J6P3274
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)

GBA
16305 SWINGLEY RIDGE RD
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314.231.0100
GBAteam.com

GEORGE BUTLER ASSOCIATES, INC.
PRO. ENGINEER 000133
ARCHITECT 000212
PRO. LAND SURVEYOR 000059

BRIAN KIERATH
PROFESSIONAL ENGINEER
PE-2023008624

SCALE
0 20 40 60

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PROP_100

PI	1452+06.85
PC	1450+26.22
PT	1453+83.63
Δ	20°28'41.3" (LT)
D	5°43'46.4"
L	357.41' (ARC)
T	180.63'
R	1,000.00'

64
220410324
13100 MANCHESTER RD
N/F
OMVESCO LLC
DB 22122, PG 1983
SEE SHEET 70

63
220410096
13200 MANCHESTER RD
N/F
13200 LLC
DB 21104, PG 2238
1,252 SF T.C.E.
33732 SF ORIGINAL
33732 SF REMAINING

59
220410681
13230 MANCHESTER RD
N/F
SOUTH COUNTY SENIOR CARE ASSOCIATES LLC
DB 17799, PG 3801
2,127 SF P.H.E.
527 SF T.C.E
190211 SF ORIGINAL
190211 SF REMAINING

65
220410562
13133 MANCHESTER RD
N/F
KA DES PERES LLC
DB 20846, PG 493
SEE SHEET 70

61
220410654
13205 MANCHESTER RD
N/F
13205 MANCHESTER LLC
DB 23718, PG 62
1,350 SF T.C.E.
319024 SF ORIGINAL
319024 SF REMAINING

62
220410636, 220410627
13231-13239 MANCHESTER RD
N/F
13239 MANCHESTER RD, LLC
DB 12419, PG 1564

EXIST. ELECTRIC ESM'T
DRWY
STA. 1449+58.00 LT
29' WIDE PAVED APPROACH (8")
GRADE = 1.0% (6'ADA PATH) / 1.0% AT ℄
DRWY
STA. 1451+15.00 LT
24' WIDE PAVED APPROACH (8")
GRADE = -1.5% (5'ADA PATH) / 1.0% AT ℄
DRWY
STA. 1449+11.00 RT
NO IMPROVEMENTS
DRWY
STA. 1451+12.00 RT
37' WIDE PAVED APPROACH (8")
GRADE = 1.5% (5'ADA PATH) / 4.00% AT ℄
MATCHLINE STA. 1448+00.00
MATCHLINE STA. 1453+00.00
℄ ROUTE 100 EB
MILL/OVERLAY
EXIST. GAS ESM'T
EXIST. GAS ESM'T
EXIST R/W
T.C.E
L.C.E
P.H.E.
STA 1449+43.21 OFF 46.00' LT. N00°43'03"E L = 5.20'
STA 1449+41.78 OFF 41.00' LT.
STA 1450+26.22
STA 1451+30.77 OFF 41.09' LT.
PC STA 1450+26.22
1450
88°19'16"
103°53'37"
90°
90°
S74°41'30"W
N74°41'30"E L = 164.66'
S74°41'30"W L = 168.42'
S00°43'03"W L = 9.36'
STA 1449+45.80 OFF 55.00' LT.
S74°41'30"W L = 31.91'
STA 1449+77.71 OFF 55.00' LT.
N15°18'30"W L = 11.00'
STA 1449+77.71 OFF 44.00' LT.
N74°41'30"E L = 86.19'
S74°41'30"W L = 50.26'
STA 1450+28.05 OFF 44.00' LT.
STA 1450+28.04 OFF 41.00' LT.
L = 98.52' R = 910.09'
L = 66.78' R = 907.09'
STA 1450+97.90 OFF 44.00' LT.
S19°42'55"E L = 11.00'
STA 1450+97.84 OFF 55.00' LT.
L = 29.54' R = 945.00'
STA 1451+29.10 OFF 55.00' LT.
L = 29.20' R = 945.00'
N27°46'57"W L = 7.05'
STA 1451+29.95 OFF 48.00' LT.
S27°46'57"E L = 6.95' R = 952.00'
STA 1451+60.00 OFF 55.00' LT.
N22°58'25"W L = 7.00'
STA 1451+60.00 OFF 48.00' LT.
L = 225.79' R = 910.09'
L = 212.89' R = 952.00'
N74°41'30"E L = 145.86'
S74°42'39"W L = 145.85'
STA 1449+24.49 OFF 39.78' RT. S00°37'42"W L = 3.35'
S74°42'39"W L = 102.08'
STA 1449+23.00 OFF 45.00' RT. S00°37'42"W L = 2.08'
STA 1449+23.57 OFF 43.00' RT.
N74°41'30"E L = 102.64'
STA 1450+26.22 OFF 43.00' RT.
STA 1450+26.56 OFF 39.81' RT.
L = 63.01' R = 1043.00'
STA 1450+86.63 OFF 43.00' RT.
L = 51.37' R = 999.59'
S17°06'02"E L = 6.26'
STA 1450+86.45 OFF 49.26' RT.
STA 1451+35.39 OFF 44.08' RT.
N21°50'11"W L = 5.00'
L = 187.87' R = 990.09'
L = 75.24' R = 994.59'
S28°19'59"E L = 2.08'
STA 1452+07.27 OFF 39.09'
STA 1452+07.36 OFF 41.17'
S28°19'59"E L = 2.42'
STA 1452+07.47 OFF 43.59'

ROW SHEET LEGEND
- EXISTING RIGHT-OF-WAY (EXIST. ROW)
- PERMANENT EASEMENT (P.H.E.)
- TEMPORARY CONSTRUCTION EASEMENT (T.C.E.)
- CONSTRUCTION LIMITS (SL)
- PROPOSED EPOXY URETHANE POLYMER OVERLAY
- SIDEWALK REMOVAL
- PROPOSED SIDEWALK
- PROPOSED MILL/OVERLAY

SHEET 11 OF 54

RIGHT OF WAY SHEET

MO ROUTE 100
MANCHESTER ROAD

STATE OF MISSOURI
BRIAN D. KIERATH JR.
NUMBER PE-2023008624
PROFESSIONAL ENGINEER
04/01/2025 10:40:55 AM
Brian D. Kierath Jr. - Civil
MO PE-2023008624

DATE PREPARED 4/1/2025
ROUTE 100 | STATE MO
DISTRICT SL | SHEET NO. 71
COUNTY ST. LOUIS
JOB NO. J6P3274
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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314.231.0100
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GEORGE BUTLER ASSOCIATES, INC.
PRO. ENGINEER 000133
ARCHITECT 000212
PRO. LAND SURVEYOR 000059

BRIAN KIERATH
PROFESSIONAL ENGINEER
PE-2023008624

SCALE
0 20 40 60

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59
220410681
13230 MANCHESTER RD
N/F
SOUTH COUNTY SENIOR CARE ASSOCIATES LLC
DB 17799, PG 3801
SEE SHEET 71

58
220130109
13268 MANCHESTER RD
N/F
SPALITTO AND VEHIGE LLC
DB 16276, PG 2422
403 SF T.C.E.
36619 SF ORIGINAL
36619 SF REMAINING

57
22P620140
13276 MANCHESTER RD
N/F
AVIACO PROPERTIES LLC
DB 17932, PG 1754
413 SF T.C.E.
29938 SF ORIGINAL
29938 SF REMAINING

56
22P620131
13302 MANCHESTER RD
N/F
MANCHESTER PROPERTIES MGMT LLC
DB 23743, PG 357
279 SF T.C.E.
23402 SF ORIGINAL
23402 SF REMAINING

DRWY
STA. 1454+91.00 LT
NO IMPROVEMENTS

DRWY
STA. 1455+58.00 LT
25' WIDE PAVED APPROACH (8")
GRADE = 1.5% (5'ADA PATH) / 4.00% AT ℄

DRWY
STA. 1457+04.00 LT
NO IMPROVEMENTS

MATCHLINE STA. 1453+00.00

MATCHLINE STA. 1458+00.00

℄ ROUTE 100 EB

PT STA 1453+83.63

94°37'01"

93°36'31"

97°

90°

S54°

P.H.E.

EXIST. R/W

T.C.E

EXIST. GAS ESM'T

EXIST. MSD ESM'T

EXIST. ELEC. ESM'T

EXIST. ELEC. ESM'T

EXIST. UTILITY ESM'T

EXIST. ELEC. ESM'T

EXIST. ELECTRIC ESM'T

EXIST. INGRESS/EGRESS ESM'T

EXIST. R/W

STA 1453+66.45
OFF 43.34'

STA 1453+83.63
OFF 48.00' LT.

S54°12'49"W
L = 76.37'

L = 241.50'
R = 952.00'
L = 225.79'
R = 910.09'

N54°16'28"E
L = 166.42'

S35°47'11"E
L = 5.00'

STA 1454+60.00
OFF 53.00' LT.

N54°12'49"E
L = 65.00'

STA 1454+60.00
OFF 48.00' LT.

STA 1454+55.70
OFF 36.96' RT.

STA 1454+75.00
OFF 40.00' RT.

N35°47'11"W
L = 5.00'

STA 1455+34.15
OFF 48.00' LT.

S54°12'49"W
L = 9.25'

STA 1455+34.15
OFF 47.27' LT.

STA 1455+33.61
OFF 43.30' LT.

S54°12'49"W
L = 65.00'

STA 1455+25.00
OFF 53.00' LT.

STA 1455+34.25
OFF 48.00' LT.

N28°01'28"W
L = 0.73'

N28°01'28"W
L = 4.01'

N54°16'28"E
L = 100.12'

S54°12'49"W
L = 100.13'

STA 1456+33.73
OFF 43.20' LT.

STA 1456+34.29
OFF 47.27' LT.

N28°01'28"W
L = 4.11'

S54°12'49"W
L = 99.89'

N54°16'28"E
L = 99.88'

N28°01'28"W
L = 4.22'

STA 1457+34.18
OFF 47.27' LT.

STA 1457+33.61
OFF 43.09' LT.

S54°12'49"W
L = 65.82'

STA 1458+00.00
OFF 43.02' LT.

N35°47'11"W
L = 4.25'

STA 1458+00.00
OFF 47.27' LT.

N54°16'28"E
L = 66.39'

STA. 11+26.36 POINTE DR. =
STA. 1456+85.67 ROUTE 100
MILL/OVERLAY

STA 1456+76.16
OFF 37.09' RT.

S28°08'30"E
L = 2.93'

STA 1456+75.77
OFF 40.00' RT.

S28°08'30"E
L = 14.97'

STA 1456+99.54
OFF 38.00' RT.

N35°47'11"W
L = 2.00'

STA 1456+99.64
OFF 40.00' RT.

N54°12'49"E
L = 29.38'

S54°12'49"W
L = 21.39'

S35°47'11"E
L = 25.00'

STA 1454+75.00
OFF 65.00' RT.

STA 1456+25.00
OFF 40.00' RT.

STA 1454+55.39
OFF 40.00' RT.

N29°56'23"W
L = 3.05'

S54°12'49"W
L = 19.61'

N54°12'49"E
L = 150.00'

S54°14'51"W
L = 220.46'

N54°12'49"E
L = 150.00'

N35°47'11"W
L = 25.00'

STA 1456+25.00
OFF 65.00' RT.

STA 1456+54.38
OFF 40.00' RT.

N35°45'39"W
L = 20.00'

STA 1456+54.37
OFF 60.00' RT.

S54°12'49"W
L = 19.40'

STA 1456+73.78
OFF 60.00' RT.

S35°45'09"E
L = 5.16'

STA 1456+73.78
OFF 54.84' RT.

S54°12'49"W
L = 25.86'

N54°12'49"E
L = 23.87'

STA 1456+99.64
OFF 60.00' RT.

N35°47'11"W
L = 18.00'

STA 1456+99.64
OFF 42.00' RT.

N54°12'49"E
L = 254.64'

S54°14'51"W
L = 495.83'

N54°12'49"E
L = 281.36'

DRWY
STA. 1453+23.00 RT
NO IMPROVEMENTS

DRWY
STA. 1453+70.00 RT
NO IMPROVEMENTS

62
220410636, 220410627
13231-13239 MANCHESTER RD
N/F
13239 MANCHESTER RD, LLC
DB 12419, PG 1564
SEE SHEET 71

60
22P620452
13275 MANCHESTER RD
N/F
HORN LAKE PROPERTIES LLC
DB 22168, PG 5024
655 SF P.H.E.
4,153 SF T.C.E.
132858 SF ORIGINAL
132858 SF REMAINING

54
22P620591
13307 MANCHESTER RD
N/F
HORN LAKE PROPERTIES LLC
DB 14980, PG 1635
1,653 SF P.H.E.
2,534 SF T.C.E.
205372 SF ORIGINAL
205372 SF REMAINING

POINTE DR

ROW SHEET LEGEND
- EXISTING RIGHT-OF-WAY (EXIST. ROW)
- PERMANENT EASEMENT (P.H.E.)
- TEMPORARY CONSTRUCTION EASEMENT (T.C.E.)
- CONSTRUCTION LIMITS (SL)
- PROPOSED EPOXY URETHANE POLYMER OVERLAY
- SIDEWALK REMOVAL
- PROPOSED SIDEWALK
- PROPOSED MILL/OVERLAY

SHEET 12 OF 54

RIGHT OF WAY SHEET

MO ROUTE 100
MANCHESTER ROAD

STATE OF MISSOURI
BRIAN D. KIERATH JR.
NUMBER PE-2023008624
PROFESSIONAL ENGINEER
04/01/2025 10:40:55 AM
Brian D. Kierath Jr. - Civil
MO PE-2023008624

DATE PREPARED
4/1/2025

ROUTE	STATE
100	MO
DISTRICT	SHEET NO.
SL	72

COUNTY
ST. LOUIS

JOB NO.
J6P3274

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)

GBA
16305 SWINGLEY RIDGE RD
ST. 300
CHESTERFIELD, MO 63017
314.231.0100
GBAteam.com

GEORGE BUTLER ASSOCIATES, INC.
PRO. ENGINEER 000133
ARCHITECT 000212
PRO. LAND SURVEYOR 000059

BRIAN KIERATH
PROFESSIONAL ENGINEER
PE-2023008624

SCALE
0 20 40 60

22P620131
13302 MANCHESTER RD
N/F
MANCHESTER PROPERTIES MGMT LLC
DB 23743, PG 357
NO ACQUISITION

22P620122
13314 MANCHESTER RD
N/F
BUELER FREDERICK L JR & ANN MARIE H/W
DB 23422, PG 2132
NO ACQUISITION

55
22P340044
13350 MANCHESTER RD
N/F
MANCHESTER 13350 LLC
DB 18846, PG 790
240 SF T.C.E.
13741 SF ORIGINAL
13741 SF REMAINING

PROP_100	
PI	1466+22.63
PC	1462+23.03
PT	1470+12.79
Δ	21°32'50.8" (LT)
D	2°43'42.1"
L	789.75' (ARC)
T	399.60'
R	2,100.00'

53
VOID
22P340604
13354 MANCHESTER RD
N/F
IRONSTONE INVESTMENTS LLC
DB 24908, PG 1317
103561 SF ORIGINAL
103561 SF REMAINING

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MATCHLINE STA. 1458+00.00

DRWY
STA. 1458+11.00 LT
NO IMPROVEMENTS

DRWY
STA. 1459+13.00 LT
28' WIDE PAVED APPROACH (8")
GRADE = 2.0% (5'ADA PATH) / 8.0% AT ℄

DRWY
STA. 1460+21.00 LT
NO IMPROVEMENTS

1460

STA 1460+85.80
OFF 42.72' LT.

S41°25'32"W
L = 41.04'

STA 1461+25.82
OFF 51.80' LT.

DRWY
STA. 1461+73.00 LT
NO IMPROVEMENTS

EXIST. R/W

T.C.E

83°56'31"

90°

12'49"W

℄ ROUTE 100 EB

MILL/OVERLAY

N54°16'28"E
L = 52.59'

N89°45'58"W
L = 14.77'

STA 1461+37.73
OFF 43.14' LT.

S89°45'58"E
L = 0.81'

STA 1461+38.39
OFF 42.66' LT.

PC STA 1462+23.03

EXIST. R/W

MATCHLINE STA. 1463+00.00

EXIST. R/W

T.C.E

P.H.E.

EXIST. ELEC. ESM'T

N54°12'49"E
L = 281.36'

S54°14'51"W
L = 495.83'

N54°12'49"E
L = 254.64'

STA 1459+54.28
OFF 38.00' RT.

N62°43'35"E
L = 27.02'

STA 1459+81.00
OFF 42.00' RT.

N62°43'35"E
L = 13.51'

STA 1459+94.36
OFF 44.00' RT.

EXIST. ELEC. ESM'T

N54°12'49"E
L = 190.56'

EXIST. ELEC. ESM'T

S81°18'23"W
L = 14.52'

STA 1461+71.99
OFF 37.39' RT.

STA 1461+84.92
OFF 44.00' RT.

ROUTE 100 RAMP

EXIST. R/W

EXIST. ELEC. ESM'T

54
22P620591
13307 MANCHESTER RD
N/F
HORN LAKE PROPERTIES LLC
DB 14980, PG 1635
SEE SHEET 72

ROW SHEET LEGEND
- EXISTING RIGHT-OF-WAY (EXIST. ROW)
- PERMANENT EASEMENT (P.H.E.)
- TEMPORARY CONSTRUCTION EASEMENT (T.C.E.)
- CONSTRUCTION LIMITS (SL)
- PROPOSED EPOXY URETHANE POLYMER OVERLAY
- SIDEWALK REMOVAL
- PROPOSED SIDEWALK
- PROPOSED MILL/OVERLAY

SHEET 13 OF 54

RIGHT OF WAY SHEET

MO ROUTE 100
MANCHESTER ROAD

STATE OF MISSOURI
BRIAN D. KIERATH JR.
NUMBER PE-2023008624
PROFESSIONAL ENGINEER
04/01/2025 10:40:55 AM
Brian D. Kierath Jr. - Civil
MO PE-2023008624

DATE PREPARED 4/1/2025
ROUTE 100 | STATE MO
DISTRICT SL | SHEET NO. 73
COUNTY ST. LOUIS
JOB NO. J6P3274
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)

GBA
16305 SWINGLEY RIDGE RD
ST. 300
CHESTERFIELD, MO 63017
314.231.0100
GBAteam.com

GEORGE BUTLER ASSOCIATES, INC.
PRO. ENGINEER 000133
ARCHITECT 000212
PRO. LAND SURVEYOR 000059

BRIAN KIERATH
PROFESSIONAL ENGINEER
PE-2023008624

SCALE
0 20 40 60

52
VOID
22P340594
13358 MANCHESTER RD
N/F
PRC INVESTMENTS L C
DB 25284, PG 5307
86932 SF ORIGINAL
86932 SF REMAINING

PROP_100	
PI	1466+22.63
PC	1462+23.03
PT	1470+12.79
△	21°32'50.8" (LT)
D	2°43'42.1"
L	789.75' (ARC)
T	399.60'
R	2,100.00'

51
22P340503
13380 MANCHESTER RD
N/F
D & D PARTNERSHIP LLC
DB 13518, PG 0328
2465 SF T.C.E.
81956 SF ORIGINAL
81956 SF REMAINING

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DRWY
STA. 1464+00.00 LT
NO IMPROVEMENTS

DRWY
STA. 1466+93.00 LT
NO IMPROVEMENTS

1465

STA 1466+55.51
OFF 52.29' LT.
N51°11'51"W
L = 2.71'
STA 1466+55.33
OFF 55.00' LT.

L = 315.01'
R = 1982.43'
S40°30'50"W
L = 61.33'
STA 1467+18.42
OFF 53.41' LT.
N49°29'10"W
L = 3.41'
STA 1467+18.43
OFF 50.00' LT.
L = 191.89'
R = 2050.00'

EXIST. R/W
EXIST. R/W

℄ ROUTE 100 EB
MILL/OVERLAY

STA 1466+56.19
OFF 41.70' LT.
N51°11'51"W
L = 10.62'

L = 278.13'
R = 1982.43'

90°
90°

MATCHLINE STA. 1463+00.00

MATCHLINE STA. 1468+00.00

100 RAMP

MATCHLINE STA. 1470+00.00

MILL/OVERLAY

℄ ROUTE 100 WB

ROW SHEET LEGEND
- EXISTING RIGHT-OF-WAY (EXIST. ROW)
- PERMANENT EASEMENT (P.H.E.)
- TEMPORARY CONSTRUCTION EASEMENT (T.C.E.)
- CONSTRUCTION LIMITS (SL)
- PROPOSED EPOXY URETHANE POLYMER OVERLAY
- SIDEWALK REMOVAL
- PROPOSED SIDEWALK
- PROPOSED MILL/OVERLAY

SHEET 14 OF 54

RIGHT OF WAY SHEET

MO ROUTE 100
MANCHESTER ROAD

STATE OF MISSOURI
BRIAN D. KIERATH JR.
NUMBER PE-2023008624
PROFESSIONAL ENGINEER
04/01/2025 10:40:56 AM
Brian D. Kierath Jr. - Civil
MO PE-2023008624

DATE PREPARED
4/1/2025

ROUTE	STATE
100	MO
DISTRICT	SHEET NO.
SL	74

COUNTY
ST. LOUIS

JOB NO.
J6P3274

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)

GBA
16305 SWINGLEY RIDGE RD
ST. 300
CHESTERFIELD, MO 63017
314.231.0100
GBAteam.com

GEORGE BUTLER ASSOCIATES, INC.
PRO. ENGINEER 000133
ARCHITECT 000212
PRO. LAND SURVEYOR 000059

BRIAN KIERATH
PROFESSIONAL ENGINEER
PE-2023008624

24MSD-00037 ; BASEMAPS 22O1, 22O4, 22P2, 22P3, 22P4, 22Q3, 23Q1, 23Q2

c:\bms\gba-pw-01\brian kierath\dms05298\074_RW_14_J6P3274_I20.dgn 9:27:10 AM 4/1/2025

SCALE
0 20 40 60

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51
22P340503
13380 MANCHESTER RD
N/F
D & D PARTNERSHIP LLC
DB 13518, PG 0328
SEE SHEET 74

22P340558
13460 MANCHESTER RD
N/F
SJV 1 DES PERES LLC
DB 24614, PG 1491
NO ACQUISITION

MATCHLINE STA. 1468+00.00

MATCHLINE STA. 1473+00.00

1470

1475

L = 191.89'
R = 2050.00'

STA 1469+15.00
OFF 50.00' LT.
S19°02'40"W
L = 12.94'
STA 1469+27.74
OFF 53.59' LT.
S35°40'54"W
L = 11.95'
STA 1469+40.00
OFF 53.41' LT.

T.C.E

L = 278.13'
R = 1982.43'

N55°20'52"W
L = 10.82'
STA 1469+40.00
OFF 42.59' LT.

PT STA 1470+12.79

℄ ROUTE 100 EB

S32°39'58"W

PC STA 1472+57.08

PC STA 1474+93.10

EXIST. R/W

MILL/OVERLAY

℄ ROUTE 100 WB

SAM'S DR

EXIST. R/W

50
22P330162
13455 MANCHESTER RD
N/F
WAL-MART PROPERTIES INC
DB 08836, PG 0571
3,557 SF T.C.E.
1300749 SF ORIGINAL
1300749 SF REMAINING

ROW SHEET LEGEND
- EXISTING RIGHT-OF-WAY (EXIST. ROW)
- PERMANENT EASEMENT (P.H.E.)
- TEMPORARY CONSTRUCTION EASEMENT (T.C.E.)
- CONSTRUCTION LIMITS (SL)
- PROPOSED EPOXY URETHANE POLYMER OVERLAY
- SIDEWALK REMOVAL
- PROPOSED SIDEWALK
- PROPOSED MILL/OVERLAY

SHEET 15 OF 54

RIGHT OF WAY SHEET

MO ROUTE 100
MANCHESTER ROAD

STATE OF MISSOURI
BRIAN D. KIERATH JR.
NUMBER PE-2023008624
PROFESSIONAL ENGINEER
04/01/2025 10:40:56 AM
Brian D. Kierath Jr. - Civil
MO PE-2023008624

DATE PREPARED
4/1/2025

ROUTE	STATE
100	MO
DISTRICT	SHEET NO.
SL	75

COUNTY
ST. LOUIS

JOB NO.
J6P3274

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)

GBA
16305 SWINGLEY RIDGE RD
ST. 300
CHESTERFIELD, MO 63017
314.231.0100
GBAteam.com

GEORGE BUTLER ASSOCIATES, INC.
PRO. ENGINEER 000133
ARCHITECT 000212
PRO. LAND SURVEYOR 000059

BRIAN KIERATH
PROFESSIONAL ENGINEER
PE-2023008624

SCALE
0 20 40 60

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22P340558
13460 MANCHESTER RD
N/F
SJV 1 DES PERES LLC
DB 24614, PG 1491
NO ACQUISITION

1475
1480
EXIST. R/W
℄ ROUTE 100 EB
MILL/OVERLAY
℄ ROUTE 100 WB
MATCHLINE STA. 1473+00.00
MATCHLINE STA. 1477+00.00
STA 1474+20.84
OFF 84.18' RT.
L = 333.88'
R = 981.95'
STA 1474+89.62
OFF 89.11' RT.
EXIST. R/W
T.C.E.
S48°56'02"E
L = 13.85'
STA 1474+20.87
OFF 98.03' RT.
N42°33'23"E
L = 62.63'
SAM'S DR
STA 1474+89.62
OFF 97.56' RT.
N45°13'39"W
L = 8.45'
T.C.E.
L = 268.14'
R = 976.95'

50

22P330162
13455 MANCHESTER RD
N/F
WAL-MART PROPERTIES INC
DB 08836, PG 0571
SEE SHEET 75

PROP_100	
PI	1480+69.40
PC	1474+93.10
PT	1485+51.87
△	56°10'9.6" (RT)
D	5°18'18.6"
L	1,058.77' (ARC)
T	576.29'
R	1,080.00'

PROP_100_WB	
PI	1477+44.71
PC	1472+57.08
PT	1481+75.08
△	47°48'57.7" (RT)
D	5°12'31.3"
L	918.00' (ARC)
T	487.64'
R	1,100.00'

ROW SHEET LEGEND
- EXISTING RIGHT-OF-WAY (EXIST. ROW)
- PERMANENT EASEMENT (P.H.E.)
- TEMPORARY CONSTRUCTION EASEMENT (T.C.E.)
- CONSTRUCTION LIMITS (SL)
- PROPOSED EPOXY URETHANE POLYMER OVERLAY
- SIDEWALK REMOVAL
- PROPOSED SIDEWALK
- PROPOSED MILL/OVERLAY

STATE OF MISSOURI
BRIAN D. KIERATH JR.
NUMBER PE-2023008624
PROFESSIONAL ENGINEER
04/01/2025 10:40:57 AM
Brian D. Kierath Jr. - Civil
MO PE-2023008624

DATE PREPARED
4/1/2025

ROUTE	STATE
100	MO
DISTRICT	SHEET NO.
SL	76

COUNTY
ST. LOUIS

JOB NO.
J6P3274

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)

GBA
16305 SWINGLEY RIDGE RD
ST. 300
CHESTERFIELD, MO 63017
314.231.0100
GBAteam.com

GEORGE BUTLER ASSOCIATES, INC.
PRO. ENGINEER 000133
ARCHITECT 000212
PRO. LAND SURVEYOR 000059

BRIAN KIERATH
PROFESSIONAL ENGINEER
PE-2023008624

SHEET 16 OF 54

RIGHT OF WAY SHEET

MO ROUTE 100
MANCHESTER ROAD

SCALE
0 20 40 60

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
BRIAN D. KIERATH JR.
NUMBER PE-2023008624
PROFESSIONAL ENGINEER
04/01/2025 10:40:57 AM
Brian D. Kierath Jr. - Civil
MO PE-2023008624

DATE PREPARED 4/1/2025
ROUTE 100 | STATE MO
DISTRICT SL | SHEET NO. 77
COUNTY ST. LOUIS
JOB NO. J6P3274
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)

GBA
16305 SWINGLEY RIDGE RD
ST. 300
CHESTERFIELD, MO 63017
314.231.0100
GBAteam.com

GEORGE BUTLER ASSOCIATES, INC.
PRO. ENGINEER 000133
ARCHITECT 000212
PRO. LAND SURVEYOR 000059

BRIAN KIERATH
PROFESSIONAL ENGINEER
PE-2023008624

MATCHLINE STA. 1477+00.00

MATCHLINE STA. 1481+00.00

EXIST. R/W

22P340558
13460 MANCHESTER RD
N/F
SJV 1 DES PERES LLC
DB 24614, PG 1491
NO AQUISITION

PC STA 5+56.24

CENTEROYAL DR
S23°50'45"E
90°16'56"

STA. 5+00.00 CENTEROYAL DR. =
STA. 1482+59.00 ROUTE 100 EB

℄ ROUTE 100 EB

MILL/OVERLAY

STA. 5+00.00 N BARRETT PKWY DR. =
STA. 1485+59.00 ROUTE 100 WB

℄ ROUTE 100 WB

89°44'39"

L = 268.14'
R = 976.95'
L = 333.88'
R = 981.95'
STA 1477+82.47
OFF 85.31' RT.
L = 98.20'
R = 80.00'

EXIST. R/W
T.C.E.

STA 1477+81.51
OFF 90.31' RT.

L = 91.25'
R = 75.00'

S25°03'17"E

N BARRETT PKWY DR

PT STA 3+86.51

STA 1478+39.45
OFF 158.96' RT.
STA 1478+45.29
OFF 158.64' RT.

T.C.E.
EXIST. R/W
EXIST. WATER ESM'T

L = 169.27'
R = 235.00'

L = 172.77'
R = 240.00'

N19°25'51"E
L = 5.00'
STA 1479+35.71
OFF 310.27' RT.

STA 1479+24.74
OFF 130.17' RT.
L = 66.75'
R = 80.00'
L = 118.00'
R = 110.00'
T.C.E.
STA 1479+26.23
OFF 194.99' RT.

L = 75.72'
R = 170.74'
STA 1479+69.73
OFF 236.18' RT.
N56°34'01"W
L = 21.13'
STA 1479+86.00
OFF 253.11' RT.

STA 1479+40.30
OFF 306.52' RT.

EXIST. R/W

1480

EXIST. R/W

47
22P310582
13537 BARRETT PARKWAY DR.
N/F
TCG BARRETT WOODS HOLDINGS LLC
DB 22656, PG 1362
1,833 SF T.C.E.
287658 SF ORIGINAL
287658 SF REMAINING

22P310629
13573 MANCHESTER RD
N/F
FFCA CO-INVESTMENT LIMITED
PTNSP A DELA
DB 10048, PG 2443
NO ACQUISITION

49
22P330209
13565 MANCHESTER RD
N/F
WAL-MART PROPERTIES INC
DB 08836, PG 0571
464 SF T.C.E.
36951 SF ORIGINAL
36951 SF REMAINING

50
22P330162
13455 MANCHESTER RD
N/F
WAL-MART PROPERTIES INC
DB 08836, PG 0571
SEE SHEET 75

PROP_100	
PI	1480+69.40
PC	1474+93.10
PT	1485+51.87
△	56°10'9.6" (RT)
D	5°18'18.6"
L	1,058.77' (ARC)
T	576.29'
R	1,080.00'

PROP_100_WB	
PI	1477+44.71
PC	1472+57.08
PT	1481+75.08
△	47°48'57.7" (RT)
D	5°12'31.3"
L	918.00' (ARC)
T	487.64'
R	1,100.00'

CENTEROYAL_DR	
PI	5+94.92
PC	5+56.24
PT	6+24.96
△	65°37'33.9" (LT)
D	95°29'34.0"
L	68.72' (ARC)
T	38.69'
R	60.00'

N_BARRET_STATION_DR	
PI	2+79.24
PC	1+09.97
PT	3+86.51
△	83°23'35.4" (RT)
D	30°9'20.2"
L	276.54' (ARC)
T	169.26'
R	190.00'

ROW SHEET LEGEND
- EXISTING RIGHT-OF-WAY (EXIST. ROW)
- PERMANENT EASEMENT (P.H.E.)
- TEMPORARY CONSTRUCTION EASEMENT (T.C.E.)
- CONSTRUCTION LIMITS (SL)
- PROPOSED EPOXY URETHANE POLYMER OVERLAY
- SIDEWALK REMOVAL
- PROPOSED SIDEWALK
- PROPOSED MILL/OVERLAY

SHEET 17 OF 54

RIGHT OF WAY SHEET

MO ROUTE 100
MANCHESTER ROAD

SCALE
0 20 40 60

DISCLAIMER
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STATE OF MISSOURI
BRIAN D. KIERATH JR.
NUMBER PE-2023008624
PROFESSIONAL ENGINEER
04/01/2025 10:40:57 AM
Brian D. Kierath Jr. - Civil
MO PE-2023008624

DATE PREPARED 4/1/2025
ROUTE 100 | STATE MO
DISTRICT SL | SHEET NO. 78
COUNTY ST. LOUIS
JOB NO. J6P3274
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)

GBA
16305 SWINGLEY RIDGE RD
ST. 300
CHESTERFIELD, MO 63017
314.231.0100
GBAteam.com

GEORGE BUTLER ASSOCIATES, INC.
PRO. ENGINEER 000133
ARCHITECT 000212
PRO. LAND SURVEYOR 000059

BRIAN KIERATH
PROFESSIONAL ENGINEER
PE-2023008624

MATCHLINE STA. 1481+00.00

MATCHLINE STA. 1485+00.00

46
22P310610
2200 BARRETT STATION RD.
N/F
ROLWES PROPERTIES LLC
DB 22660, PG 3299
818 SF T.C.E.
70556 SF ORIGINAL
70556 SF REMAINING

47
22P310582
13537 BARRETT PARKWAY DR.
N/F
TCG BARRETT WOODS HOLDINGS LLC
DB 22656, PG 1362
SEE SHEET 77

APPROX EAST LINE FRACTIONAL SECTION 33
APPROX WEST LINE FRACTIONAL SECTION 32

EXIST. R/W

STA 1481+52.35
OFF 46.80' LT.

S89°47'41"E
L = 35.08'

STA 1481+85.96
OFF 40.77' LT.

N80°21'30"E
L = 288.50'

S80°21'30"W
L = 322.39'

STA 1484+74.46
OFF 41.40' LT.
N16°02'42"W
L = 6.04'
STA 1484+73.77
OFF 47.40' LT.

S80°21'30"W
L = 147.05'

N80°21'30"E
L = 115.01'

T.C.E.
EXIST. R/W

PT STA 1481+75.08

PT STA 1485+51.87

℄ ROUTE 100 EB
MILL/OVERLAY

℄ ROUTE 100 WB

S80°28'56"W

STA 1484+56.31
OFF 93.00' RT.
STA 1484+58.07
OFF 83.00' RT.
STA 1484+59.31
OFF 75.97' RT.
STA 1484+60.77
OFF 67.69' RT.

S00°28'25"W
L = 8.41'
S00°28'25"W
L = 7.14'
S00°28'25"W
L = 10.15'
S80°24'25"W
L = 179.56'

EXIST. R/W

T.C.E.
EXIST. UTILITY ESM'T
P.H.E.
N80°28'56"E
L = 212.22'
N80°28'56"E
L = 223.68'

48
22P330135
13589 MANCHESTER RD
N/F
AMEREN UE
DB 15562, PG 1076
3,176 SF P.H.E.
2,184 SF T.C.E.
50410 SF ORIGINAL
50410 SF REMAINING

22P310629
13573 MANCHESTER RD
N/F
FFCA CO-INVESTMENT LIMITED
PTNSP A DELA
DB 10048, PG 2443
NO ACQUISITION

22P330171
13560 N BARRETT PARKWAY DR.
N/F
ESQUIRE HOLDINGS LLC
DB 21510, PG 1708
NO ACQUISITION

22P330209
13565 MANCHESTER RD
N/F
WAL-MART PROPERTIES INC
DB 08836, PG 0571
SEE SHEET 77

ROW SHEET LEGEND
- EXISTING RIGHT-OF-WAY (EXIST. ROW)
- PERMANENT EASEMENT (P.H.E.)
- TEMPORARY CONSTRUCTION EASEMENT (T.C.E.)
- CONSTRUCTION LIMITS (SL)
- PROPOSED EPOXY URETHANE POLYMER OVERLAY
- SIDEWALK REMOVAL
- PROPOSED SIDEWALK
- PROPOSED MILL/OVERLAY

SHEET 18 OF 54

RIGHT OF WAY SHEET

MO ROUTE 100
MANCHESTER ROAD

SCALE
0 20 40 60

LAND TIE #3

LAND CORNER TIE:
FOUND IRON PIPE WITH CAP LS14D AT SOUTHWESTERN CORNER OF PARCEL NO. 4 OF THE MARKETPLACE
PB 253 PG 58
245.31 FEET NORTHWEST OF BASELINE STATION 1487+50.00
PROJECT COORDINATES
N:1006210.922 E:827472.449

FOUND IRON PIPE SW CORNER PARCEL NO. 4 THE MARKETPLACE
N84°35'11"W
245.31'
1486
1487
1488

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PROFESSIONAL ENGINEER
04/01/2025 10:40:58 AM
Brian D. Kierath Jr. - Civil
MO PE-2023008624

DATE PREPARED 4/1/2025
ROUTE 100 | STATE MO
DISTRICT SL | SHEET NO. 79
COUNTY ST. LOUIS
JOB NO. J6P3274
CONTRACT ID.
PROJECT NO.
BRIDGE NO.

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DATE | DESCRIPTION

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

GBA
16305 SWINGLEY RIDGE RD ST. 300
CHESTERFIELD, MO 63017
314.231.0100
GBAteam.com
GEORGE BUTLER ASSOCIATES, INC.
PRO. ENGINEER 000133
ARCHITECT 000212
PRO. LAND SURVEYOR 000059

BRIAN KIERATH
PROFESSIONAL ENGINEER
PE-2023008624

STA. 1485+00.00
MATCHLINE STA. 1490+25.00
MATCHLINE STA. 1485+00.00
STA. 1490+25.00

46
22P310610
2200 BARRETT STATION RD.
N/F
ROLWES PROPERTIES LLC
DB 22660, PG 3299
SEE SHEET 78

45
22P220584
13600 MANCHESTER RD.
N/F
HOLLOWAY RONALD S TRUSTEE ETAL
DB 12389, PG 0091
1.496 SF P.H.E.
466 SF T.C.E.
51753 SF ORIGINAL
51753 SF REMAINING

43
22P240302
2175 BARRETT STATION
N/F
AMERICAN EAGLE CREDIT UNION
DB 17691, PG 2526
1.571 SF P.H.E.
1.249 SF T.C.E.
60725 SF ORIGINAL
60725 SF REMAINING

48
22P330135
13589 MANCHESTER RD
N/F
AMEREN UE
DB 15562, PG 1076
SEE SHEET 78

EXIST. INGRESS & EGRESS ESM'T
EXIST. FEE FEE TRUNK SEWER ESM'T
EXIST. STL WATER CO. ESM'T
EXIST. ROADWAY MAINT. IMPROVEMENT, SEWER & UTILITY ESM'T
EXIST. BMP RESERVE AREA
DRWY STA. 1489+82.00 LT
32' WIDE PAVED APPROACH (8") GRADE = 1.5% (6'ADA PATH) / 6.0% AT ℄
EXIST. R/W
BARRETT STATION RD
T.C.E.
P.H.E.
EXIST. ROADWAY & UTILITY ESM'T
EXIST. UTILITY ESM'T
EXIST. ELEC. ESM'T
EXIST. MSD ESM'T
EXIST. STL WATER CO. ESM'T
EXIST. TELE. ESM'T
MILL/OVERLAY
℄ ROUTE 100 EB
℄ ROUTE 100 WB
℄ ROUTE 100
STA. 5+00.00 BARRETTSTATION RD. = STA. 1487+32.59 ROUTE 100 EB
STA. 5+00.00 BARRETT STATION RD. = STA. 1487+24.65 ROUTE 100 EB
END STA 1489+85.20
PC STA 3+35.25
PT STA 4+15.01
STA 1485+89.47 OFF 41.65' LT.
STA 1489+85.20
STA 1486+61.73 OFF 75.54' RT.
STA 1486+40.33 OFF 67.45' RT.
STA 1486+89.03 OFF 122.08' RT.
STA 1486+91.02 OFF 122.42' RT.
STA 1487+76.51 OFF 136.72' RT.
STA 1487+86.79 OFF 125.45' RT.
STA 1487+86.90 OFF 138.07' RT.
STA 1487+82.84 OFF 137.54' RT.
STA 1488+25.10 OFF 44.00' LT.
STA 1488+34.67 OFF 36.00' LT.
STA 1488+41 OFF 84.19' RT.
STA 1488+20.10 OFF 87.93' RT.
STA 1488+73.35 OFF 77.00' RT.
STA 1488+87.57 OFF 70.00' RT.
STA 1489+50.68 OFF 50.00' LT.
STA 1489+50.68 OFF 44.00' LT.
STA 1489+59.37 OFF 36.46' LT.
STA 1489+62.03 OFF 63.60' RT.
STA 1489+87.02 OFF 63.21' RT.
STA 1489+87.13 OFF 70.00' RT.
STA 1489+87.24 OFF 77.00' RT.
L = 32.13' R = 85.00' STA 1486+20.82 OFF 47.71' LT.
N80°21'30"E 115.01'
S80°21'30"W L = 147.05'
S15°49'56"E
S14°57'56"E
L = 58.57' R = 50.00' L = 13.98' R = 48.00' STA 1486+79.99 OFF 93.00' RT.
L = 30.99' R = 48.00'
L = 117.25' R = 87.00'
L = 52.65' R = 95.00' L = 61.28' R = 91.00'
N80°16'15"E L = 124.70'
N80°28'56"E 125.58'
S59°37'58"E L = 12.47'
N08°32'46"E L = 12.72'
N87°50'50"E L = 4.10'
N87°50'50"E L = 6.38'
N68°53'07"E L = 54.37'
S68°53'07"W L = 70.59'
S09°47'12"E 4.50'
N80°28'56"E L = 99.56'
N09°31'04"W 6.00'
N80°28'56"E 77.94'
N80°28'56"E 77.26'
S80°12'48"W L = 101.01'
S79°34'48"W L = 25.00'
N10°25'12"W L = 6.80'
N10°25'12"W L = 7.00'
S79°34'48"W L = 145.00'
N80°28'56"E 113.89'
N80°28'56"E L = 169.61'
S80°28'56"W L = 223.68'
N80°28'56"E L = 212.22'
S80°24'25"W L = 179.56'
N78°48'15"W L = 22.88'
S89°59'03"E L = 2.02'
N79°38'15"E L = 70.00'
S80°28'56"W L = 77.26'
96°
95°
96°44'54"

N_BARRET_STATION_RD

PI	3+75.37
PC	3+35.25
PT	4+15.01
△	15°14'2.5" (LT)
D	19°5'54.8"
L	79.77' (ARC)
T	40.12'
R	300.00'

ROW SHEET LEGEND
- EXISTING RIGHT-OF-WAY (EXIST. ROW)
- PERMANENT EASEMENT (P.H.E.)
- TEMPORARY CONSTRUCTION EASEMENT (T.C.E.)
- CONSTRUCTION LIMITS (SL)
- PROPOSED EPOXY URETHANE POLYMER OVERLAY
- SIDEWALK REMOVAL
- PROPOSED SIDEWALK
- PROPOSED MILL/OVERLAY

RIGHT OF WAY SHEET

MO ROUTE 100
MANCHESTER ROAD

SHEET 19 OF 54

SCALE
0 20 40 60

MATCHLINE STA. 1490+25.00

MATCHLINE STA. 1495+00.00

44
22P220566
13616 MANCHESTER RD.
N/F
GREATER ST LOUIS AUTOMOTIVE ASSOCIATION
DB 16826, PG 2719
835 SF P.H.E.
1,050 SF T.C.E.
41077 SF ORIGINAL
41077 SF REMAINING

EXIST. NON-EXCLUSIVE INGRESS-EGRESS ESM'T

EXIST. UTILITY ESM'T

EXIST. ROADWAY MAINT IMPROVEMENT, SEWER & UTILITY ESM'T

EXIST. ACCESS ESM'T

EXIST. ROADWAY & UTILITY ESM'T

EXIST. FEE FEE TRUNK SEWER ESM'T

EXIST. ROADWAY MAINT. IMPROVEMENT, SEWER & UTILITY ESM'T

EXIST. R/W

BARRETT PKWY DR

S09°31'04"E

EXIST. MSD ESM'T

40
22P220575
13620 MANCHESTER RD.
N/F
DIVERSIFIED STORAGE FUNDII
DB 08671, PG 0145
1,169 SF P.H.E.
50449 SF ORIGINAL
50449 SF REMAINING

23P540665
2309 BARRETT STATION RD.
N/F
STATE OF MISSOURI
DB 9080, PG 1755
NO AQUISITION

39
22P220685
13642 MANCHESTER RD.
N/F
CALVERT GARY & LISA
DB 20629, PG 1000
2,787 SF P.H.E.
315 SF T.C.E.
36412 SF ORIGINAL
36412 SF REMAINING

EXIST. MSD ESM'T

EXIST. ADVERTISING SIGN ESM'T

EXIST. SIDEWALK & UTILITY ESM'T

EXIST. GAS ESM'T

EXIST. STL WATER CO. ESM'T

EXIST. ELEC ESM'T

EXIST. SEWER ESM'T

EXIST. TELE. ESM'T

EXIST. R/W

P.H.E.

T.C.E

℄ ROUTE 100

N80°28'56"E L = 77.26'
STA 1490+27.93 OFF 50.00' LT.
S16°00'33"E L = 6.04'
N80°28'56"E L = 203.52'
STA 1490+28.62 OFF 44.00' LT.
N80°28'56"E L = 136.94'
N79°38'15"E L = 129.83'
STA 1491+66.75 OFF 50.00' LT.
L = 41.91' R = 87.00'
L = 47.26' R = 92.00'
STA 1491+99.04 OFF 76.07' LT.
STA 1492+02.60 OFF 72.50' LT.
STA 1492+03.86 OFF 71.25' LT.
STA 1492+06.17 OFF 71.00' LT.
S09°31'04"E
STA 1493+86.07 OFF 136.45' LT.
STA 1493+44.54 OFF 136.52' LT.
N80°34'48"E L = 10.93'
STA 1493+33.61 136.54' LT.
N80°34'48"E 19.51'
STA 1494+05.58 OFF 136.42' LT.
S80°35'56"E L = 77.99'
N00°34'42"E L = 91.39'
S09°31'04"E L = 86.00'
N80°34'48"E L = 20.00'
STA 1494+25.58 OFF 50.38' LT.
N79°50'52"E L = 115.01'
STA 1492+96.17 OFF 75.48' LT.
S35°28'56"E L = 6.19'
L = 26.56' R = 79.00'
L = 42.84' R = 94.50'
STA 1493+21.52 OFF 59.49' LT.
STA 1493+30.31 OFF 45.85' LT.
N00°35'56"W L = 91.78'
STA 1493+70.05 OFF 46.48' LT.
STA 1494+05.58 OFF 50.42' LT.
STA 1494+25.58 OFF 48.38' LT.
S09°31'04"E L = 2.00'
N80°34'48"E L = 115.03'
N80°34'48"E 170.57'
L = 55.16' R = 94.50'
N54°31'04"W L = 5.04'
N54°31'04"W L = 1.77'
N79°38'15"E L = 70.00'
STA 1490+29.36 OFF 37.49' LT.
S16°00'33"E L = 6.55'
S80°28'56"W L = 138.81'
STA 1491+59.18 OFF 39.41' LT.
STA 1491+65.56 OFF 44.00' LT.
8'56"W
STA 1491+32.12 OFF 68.31' RT.
S79°34'48"W L = 145.00'
S78°49'47"W L = 58.53'
S10°25'12"E 7.39'
STA 1491+32.01 OFF 60.92' RT.
N80°28'56"E L = 66.66'
STA 1493+81.48 OFF 74.57' RT.
STA 1494+20.00 OFF 74.49' RT.
N80°28'56"E L = 86.48'
STA 1490+73.61 OFF 70.00' RT.
N80°28'56"E 145.02'
N10°25'12"W L = 8.69'
STA 1491+32.26 OFF 77.00' RT.
N80°28'56"E L = 24.59'
S79°34'48"W L = 24.63'
STA 1491+56.85 OFF 77.00' RT.
S10°16'49"E L = 16.47'
STA 1491+56.63 OFF 60.53' RT.
STA 1493+08.69 OFF 92.02' RT.
S00°32'37"E L = 28.33'
STA 1493+04.27 OFF 120.00' RT.
S80°21'59"W L = 38.52'
S09°38'01"E L = 15.00'
S09°31'04"E L = 45.51'
STA 1494+20.00 OFF 120.00' RT.
N75°31'39"E 27.32'
STA 1493+35.91 OFF 89.66' RT.
S80°21'59"W L = 45.60'
STA 1493+81.51 OFF 89.57' RT.
N80°28'56"E L = 115.73'

EXIST. MSD ESM'T

EXIST. ROADWAY & UTILITY ESM'T

EXIST. ROADWAY & UTILITY ESM'T

42
22P240467
2115 BARRETT STATION RD
N/F
ENVISION ST. LOUIS LLC
DB 23214, PG 2076
1.101 SF P.H.E.
1.065 SF T.C.E.
125209 SF ORIGINAL
125209 SF REMAINING

41
22P240476
2173 BARRETT STATION RD
N/F
BARRETT STATION PROPERTY LLC
DB 24132, PG 1608
400 T.C.E.
124210 SF ORIGINAL
124210 SF REMAINING

35
22P220401
13645 MANCHESTER RD
N/F
CAPCO RECON LLC
DB 24524, PG 2084
3,992 SF P.H.E.
30878 SF ORIGINAL
30878 SF REMAINING

EXIST. MSD ESM'T

EXIST. STL WATER CO. ESM'T

EXIST. ELEC ESM'T

EXIST. TELE. ESM'T

BARRET_PKWY_DR	
PI	9+70.89
PC	7+79.88
PT	10+73.31
△	93°24'7.7" (LT)
D	31°49'51.3"
L	293.43' (ARC)
T	191.02'
R	180.00'

ROW SHEET LEGEND
- EXISTING RIGHT-OF-WAY (EXIST. ROW)
- PERMANENT EASEMENT (P.H.E.)
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PROFESSIONAL ENGINEER
04/01/2025 10:40:58 AM
Brian D. Kierath Jr. - Civil
MO PE-2023008624

DATE PREPARED 4/1/2025

ROUTE	STATE
100	MO
DISTRICT	SHEET NO.
SL	80

COUNTY ST. LOUIS
JOB NO. J6P3274
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)

GBA
16305 SWINGLEY RIDGE RD
ST. 300
CHESTERFIELD, MO 63017
314.231.0100
GBAteam.com

GEORGE BUTLER ASSOCIATES, INC.
PRO. ENGINEER 000133
ARCHITECT 000212
PRO. LAND SURVEYOR 000059

SHEET 20 OF 54

RIGHT OF WAY SHEET

MO ROUTE 100
MANCHESTER ROAD

BRIAN KIERATH
PROFESSIONAL ENGINEER
PE-2023008624

SCALE
0 20 40 60

38
22P220676
13650 MANCHESTER RD.
N/F
RDI HOLDING COMPANY LLC
DB 23930, PG 3562
291 SF P.H.E.
637 SF T.C.E.
20603 SF ORIGINAL
20603 SF REMAINING

37
22P220658
13652 MANCHESTER RD.
N/F
DSJS #1 LLC
DB 21908, PG 4884
43 SF P.H.E.
2,129 SF T.C.E.
46596 SF ORIGINAL
46596 SF REMAINING

36
22P220281
13662 MANCHESTER RD.
N/F
DSJS NO 2 LLC
DB 21908, PG 4890
1,247 SF T.C.E.
20919 SF ORIGINAL
20919 SF REMAINING

32
22P210400
13700 MANCHESTER BLVD
N/F
MANCHESTER CID 1 LLC
DB 235112, PG 2551
329 SF P.H.E.
3,506 SF T.C.E.
375646 SF ORIGINAL
375646 SF REMAINING

35
22P220401
13645 MANCHESTER RD
N/F
CAPCO RECON LLC
DB 24524, PG 2084
SEE SHEET 80

22P220410
13655 MANCHESTER RD
N/F
SPIRIT ENERGY LLCA
DB 11135, PG 2498
NO ACQUISITION

22P220667
13667 MANCHESTER RD
N/F
MANCHESTER & MASON DEVELOPMENT LLC
DB 20212, PG 1350
NO ACQUISITION

MATCHLINE STA. 1495+00.00

MATCHLINE STA. 1500+00.00

EXIST. SIDEWALK & UTILITY ESM'T
EXIST. GAS ESM'T
EXIST. STL WATER CO. ESM'T
EXIST. GAS ESM'T
EXIST. STL COUNTY SEWER, SIDEWALK, AND UTILITIES ESM'T
EXIST. R/W
T.C.E.
P.H.E.
℄ ROUTE 100
MILL/OVERLAY
MASON LN
S02°37'20"E

DRWY STA. 1495+90.00 LT NO IMPROVEMENTS
DRWY STA. 1496+58.00 LT 25' WIDE PAVED APPROACH (8") GRADE = 1.0% (6'ADA PATH) / 7.0% AT ℄
DRWY STA. 1495+58.00 RT NO IMPROVEMENTS
DRWY STA. 1496+28.00 RT NO IMPROVEMENTS
DRWY STA. 1497+48.00 RT NO IMPROVEMENTS
DRWY STA. 1498+10.00 RT NO IMPROVEMENTS
DRWY STA. 1499+18.00 RT NO IMPROVEMENTS

N80°34'48"E L = 170.57'
N80°34'48"E L = 115.03'
N09°55'24"W L = 115.03'
N09°55'24"W L = 0.81'
STA 1495+40.61 OFF 48.18' LT.
N09°55'24"W L = 2.00'
STA 1495+40.63 OFF 46.18'
STA 1495+40.61 OFF 49.00'
N80°34'48"E L = 59.40'
N79°04'22"W L = 81.35'
N79°53'26"E L = 33.41'
N79°50'52"E L = 115.01'
N09°55'24"W L = 2.66'
STA 1495+40.59 OFF 51.65' LT.
S09°31'04"E L = 10.00'
STA 1495+74.00 OFF 62.00' LT.
STA 1495+74.00 OFF 52.00' LT.
S80°28'56"W L = 48.07'
STA 1496+21.93 OFF 51.00' LT.
N08°47'24"W L = 11.00'
STA 1496+22.20 OFF 72.54' LT.
S08°47'24"E L = 10.54'
STA 1496+22.07 OFF 62.00' LT.
STA 1496+00.03 OFF 46.08' LT.
N74°41'45"E L = 21.98'
STA 1496+21.89 OFF 48.30' LT.
N08°47'24"W 2.70'
STA 1496+54.14 OFF 51.57' LT.
N64°27'48"E L = 40.70'
STA 1496+93.26 OFF 62.80' LT.
N74°41'45"E L = 32.41'
S79°28'28"W L = 32.22'
N76°07'21"E L = 56.16'
S77°32'06"W L = 128.00'
STA 1497+50.03 OFF 79.12' LT.
STA 1497+49.26 OFF 67.07' LT.
S05°50'54"E L = 12.08'
N77°32'06"E L = 91.40'
S77°32'06"W L = 108.34'
L = 23.19'
R = 20.00'
STA 1498+58.23 OFF 84.69' LT.
STA 1498+40.54 OFF 71.77' LT.
PC STA 1498+78.98
STA 1499+12.68 OFF 77.76' LT.
S02°40'08"E L = 7.03'
STA 1499+11.95 OFF 70.77' LT.
L = 135.01' R = 2941.93'
L = 135.34' R = 2934.93'
STA. 5+00.00 MASON LN = STA 1498+73.45 ROUTE 100

101°50'10"
90°
75°18'58"
77°09'17"
64°11'06"
96°53'44"

PROP_100	
PI	1502+90.69
PC	1498+78.98
PT	1506+95.86
△	17°39'42.2" (RT)
D	2°9'43.6"
L	816.88' (ARC)
T	411.70'
R	2,650.00'

ROW SHEET LEGEND
- EXISTING RIGHT-OF-WAY (EXIST. ROW)
- PERMANENT EASEMENT (P.H.E.)
- TEMPORARY CONSTRUCTION EASEMENT (T.C.E.)
- CONSTRUCTION LIMITS (SL)
- PROPOSED EPOXY URETHANE POLYMER OVERLAY
- SIDEWALK REMOVAL
- PROPOSED SIDEWALK
- PROPOSED MILL/OVERLAY

SHEET 21 OF 54

RIGHT OF WAY SHEET

MO ROUTE 100
MANCHESTER ROAD

DISCLAIMER
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STATE OF MISSOURI
BRIAN D. KIERATH JR.
NUMBER PE-2023008624
PROFESSIONAL ENGINEER
04/01/2025 10:40:59 AM
Brian D. Kierath Jr. - Civil
MO PE-2023008624

DATE PREPARED 4/1/2025

ROUTE	STATE
100	MO
DISTRICT	SHEET NO.
SL	81

COUNTY ST. LOUIS
JOB NO. J6P3274
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)

GBA
16305 SWINGLEY RIDGE RD
ST. 300
CHESTERFIELD, MO 63017
314.231.0100
GBAteam.com

GEORGE BUTLER ASSOCIATES, INC.
PRO. ENGINEER 000133
ARCHITECT 000212
PRO. LAND SURVEYOR 000059

BRIAN KIERATH
PROFESSIONAL ENGINEER
PE-2023008624

SCALE
0 20 40 60

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PROFESSIONAL ENGINEER
04/01/2025 10:40:59 AM
Brian D. Kierath Jr. - Civil
MO PE-2023008624

DATE PREPARED 4/1/2025
ROUTE 100 | STATE MO
DISTRICT SL | SHEET NO. 82
COUNTY ST. LOUIS
JOB NO. J6P3274
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)

GBA
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CHESTERFIELD, MO 63017
314.231.0100
GBAteam.com

GEORGE BUTLER ASSOCIATES, INC.
PRO. ENGINEER 000133
ARCHITECT 000212
PRO. LAND SURVEYOR 000059

BRIAN KIERATH
PROFESSIONAL ENGINEER
PE-2023008624

32
22P210400
13700 MANCHESTER BLVD
N/F
MANCHESTER CID 1 LLC
DB 235112, PG 2551
SEE SHEET 81

31
22P210419
13720 MANCHESTER BLVD
N/F
K2M PROPERTIES LLC
DB 24018, PG 1023
464 SF P.H.E.
1,735 SF T.C.E.
405162 SF ORIGINAL
405162 SF REMAINING

34
22P210253
2185 S MASON RD
N/F
BALDRIDGE MASON LLC
DB 21188, PG 394
52 SF T.C.E.
25068 SF ORIGINAL
25068 SF REMAINING

22P210262
2190 S MASON RD
N/F
MASON- MANCHESTER OFFICE BLDG LLC
DB 15860, PG 3217
NO ACQUISITION

22P220667
13667 MANCHESTER RD
N/F
MANCHESTER & MASON DEVELOPMENT LLC
DB 20212, PG 1350
NO ACQUISITION

EXIST. INGRESS & EGRESS ESM'T
EXIST. INGRESS & EGRESS ESM'T
EXIST. CROSS ACCESS ESM'T
EXIST. ROW DEDICATION ESM'T
EXIST. GAS ESM'T
EXIST. R/W
T.C.E.
P.H.E.
EXIST. CROSS ACCESS ESM'T
EXIST. CROSS ACCESS ESM'T
S MASON RD
STA. 5+00.00 S MASON RD. ℄
STA. 1503+48.38 ROUTE 100
℄ ROUTE 100
MILL/OVERLAY
MATCHLINE STA. 1500+00.00
MATCHLINE STA. 1505+00.00
EXIST. R/W
EXIST. R/W
EXIST. R/W
S MASON RD
EXIST. R/W
T.C.E.
P.H.E.
EXIST. R/W

L = 135.01'
R = 2941.93'
L = 135.34'
R = 2934.93'
STA 1500+43.87
OFF 76.25' LT.
STA 1500+43.80
OFF 69.25' LT.
S05°24'56"E
L = 10.00'
STA 1500+43.71
OFF 59.25' LT.
N89°42'38"W
L = 128.77'
L = 242.05'
R = 2924.93'
STA 1501+68.85
OFF 65.27' LT.
L = 114.63'
R = 2931.93'
STA 1502+80.54
OFF 57.77' LT.
L = 36.39'
R = 2924.93'
STA 1502+80.73
OFF 64.77' LT.
S46°20'38"W
L = 26.47'
S46°20'38"W
L = 26.56'
STA 1502+99.41
OFF 75.83' LT.
STA 1502+99.62
OFF 82.89' LT.
S43°39'22"E
L = 34.76'
S43°39'22"E
L = 24.97'
STA 1503+16.15
OFF 57.68' LT.
L = 6.92'
R = 2924.93'
STA 1503+22.93
OFF 57.67' LT.
STA 1503+85.08
OFF 57.62' LT.
S01°25'06"W
L = 6.57'
S01°31'09"W
L = 12.00'
STA 1503+85.10
OFF 76.19' LT.
N87°37'12"W
L = 56.54'
L = 92.55'
R = 2924.93'
S87°37'12"E
L = 56.54'
N87°37'12"W
L = 57.79'
STA 1504+75.66
OFF 57.75' LT.
STA 1503+85.08
OFF 64.19' LT.
STA 1504+40.28
OFF 63.84' LT.
STA 1504+41.27
OFF 75.84' LT.
N77°27'11"W
L = 36.70'
S75°49'32"E
97.91'
L = 60.81'
R = 2924.93'
STA 1503+93.69
OFF 81.38' RT.
S18°34'53"W
L = 5.22'
L = 10.44'
R = 2784.93'
STA 1504+04.46
OFF 81.41' RT.
S00°17'21"E
STA 1503+92.12
OFF 86.37' RT.
L = 10.44'
R = 2779.93'
STA 1504+02.91
OFF 86.40' RT.
N18°34'53"E
L = 5.22'

PROP_100	
PI	1502+90.69
PC	1498+78.98
PT	1506+95.86
△	17°39'42.2" (RT)
D	2°9'43.6"
L	816.88' (ARC)
T	411.70'
R	2,650.00'

ROW SHEET LEGEND
- EXISTING RIGHT-OF-WAY (EXIST. ROW)
- PERMANENT EASEMENT (P.H.E.)
- TEMPORARY CONSTRUCTION EASEMENT (T.C.E.)
- CONSTRUCTION LIMITS (SL)
- PROPOSED EPOXY URETHANE POLYMER OVERLAY
- SIDEWALK REMOVAL
- PROPOSED SIDEWALK
- PROPOSED MILL/OVERLAY

SHEET 22 OF 54

RIGHT OF WAY SHEET

MO ROUTE 100
MANCHESTER ROAD

SCALE
0 20 40 60

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NUMBER PE-2023008624
PROFESSIONAL ENGINEER
04/01/2025 10:40:59 AM
Brian D. Kierath Jr. - Civil
MO PE-2023008624

DATE PREPARED 4/1/2025
ROUTE 100 | STATE MO
DISTRICT SL | SHEET NO. 83
COUNTY ST. LOUIS
JOB NO. J6P3274
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)

GBA
16305 SWINGLEY RIDGE RD
ST. 300
CHESTERFIELD, MO 63017
314.231.0100
GBAteam.com

GEORGE BUTLER ASSOCIATES, INC.
PRO. ENGINEER 000133
ARCHITECT 000212
PRO. LAND SURVEYOR 000059

BRIAN KIERATH
PROFESSIONAL ENGINEER
PE-2023008624

31
22P210419
13720 MANCHESTER BLVD
N/F
K2M PROPERTIES LLC
DB 24018, PG 1023
SEE SHEET 82

22P210363
13750 MANCHESTER RD
N/F
K2M PROPERTIES LLC
DB 23816, PG 3929
NO ACQUISITION

22P210428
13790 MANCHESTER RD
N/F
WEST COUNTY EMS & FIRE PROTECTION DIST
DB 17890, PG 2057
NO ACQUISITION

EXIST. CROSS ACCESS ESM'T

APPROX NORTH LINE FRACTIONAL SECTION 32
APPROX NORTH LINE US SURVEY 128

DRWY
STA. 1506+34.00 LT
31' WIDE PAVED APPROACH (8")
GRADE = 1.0% (6' ADA PATH)/-1.0% AT ℄

DRWY
STA. 1508+57.00 LT
45' WIDE PAVED APPROACH (8")
GRADE = 1.0% (6'ADA PATH) / 1.0% AT ℄

DRWY
STA. 1509+62.00 LT
NO IMPROVEMENTS

STA. 1505+00.00

STA 1506+28.20
OFF 68.50' LT.
L = 44.17'
R = 2720.00'
STA 1506+10.42
OFF 70.00' LT.
S06°06'22"W
L = 11.62'
N06°17'11"E
L = 10.00'

L = 60.81'
R = 2924.93'
N75°49'32"W
L = 97.91'
STA 1505+35.17
OFF 57.96' LT.

S83°30'49"E
L = 20.49'
STA 1506+48.17
OFF 68.64' LT.
STA 1506+53.45
OFF 70.00' LT.
S06°41'11"W
L = 10.00'
N07°21'49"E
L = 11.32'

T.C.E.
EXIST. R/W
PT STA 1506+95.86
℄ ROUTE 100
MILL/OVERLAY

STA 1506+10.46
OFF 58.38' LT.
L = 18.20'
R = 2924.93'
STA 1506+28.26
OFF 58.50' LT.

STA 1506+48.24
OFF 58.65' LT.
L = 5.30'
R = 2924.93'
STA 1506+53.43
OFF 58.69' LT.

86°01'52"
90°
72°44'24"
92°45'57"
90°
90°
90°

STA. 1510+00.00

EXIST. R/W
EXIST. R/W

DRWY
STA. 1505+41.00 RT
NO IMPROVEMENTS

DRWY
STA. 1506+49.00 RT
NO IMPROVEMENTS

DRWY
STA. 1507+82.00 RT
NO IMPROVEMENTS

DRWY
STA. 1508+70.00 RT
NO IMPROVEMENTS

DRWY
STA. 1509+56.00 RT
NO IMPROVEMENTS

33
VOID
22P210244
13721 MANCHESTER RD
N/F
13721 MANCHESTER LAND LLC
DB 23138, PG 1089
NO ACQUISITION

22P210170
13753 MANCHESTER RD
N/F
EZ STORAGE STLC LLC
DB 23260, PG 2804
NO ACQUISITION

22P210217
13775 MANCHESTER RD
N/F
C. EDGAR WEISS BARBARA L. WEISS
LARRY E. WEISS AND LAMCE G. WEISS TRUSTEES
DB 09479, PG 1195
NO ACQUISITION

ROW SHEET LEGEND
- EXISTING RIGHT-OF-WAY (EXIST. ROW)
- PERMANENT EASEMENT (P.H.E.)
- TEMPORARY CONSTRUCTION EASEMENT (T.C.E.)
- CONSTRUCTION LIMITS (SL)
- PROPOSED EPOXY URETHANE POLYMER OVERLAY
- SIDEWALK REMOVAL
- PROPOSED SIDEWALK
- PROPOSED MILL/OVERLAY

RIGHT OF WAY SHEET

MO ROUTE 100
MANCHESTER ROAD

SCALE
0 20 40 60

22P210428
13790 MANCHESTER RD
N/F
WEST COUNTY EMS & FIRE PROTECTION DIST
DB 17890, PG 2057
NO ACQUISITION

22P210143
13826 MANCHESTER RD
N/F
CF SFX JOINT VENTURE LLC
DB 24910, PG 4865
NO ACQUISITION

30
22P120163
13850 MANCHESTER RD
N/F
S H J LLC A MISSOURI LLC
DB 11484, PG 0694
269 SF P.H.E.
4,085 SF T.C.E.
175712 SF ORIGINAL
175712 SF REMAINING

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DRWY
STA. 1510+38.00 LT
32' WIDE PAVED APPROACH
(8")
GRADE = 1.0% (6'ADA PATH)
/ 1.0% AT ℄

DRWY
STA. 1512+58.00 LT
34' WIDE PAVED APPROACH
(8")
GRADE = 1.0% (6'ADA PATH) / 1.0% AT ℄

DRWY
STA. 1513+21.00 LT
30' WIDE PAVED APPROACH
(8")
GRADE = 1.0% (6'ADA PATH)
/ 1.0% AT ℄

STA 1512+86.57
OFF 75.00' LT.

STA 1513+38.00
OFF 75.00' LT.
N08°08'38"E
L = 7.50'

S08°08'38"W
L = 14.51'

S81°59'39"E
L = 333.18'

N81°51'22"W
L = 212.00'

T.C.E.

EXIST. R/W

STA 1512+86.57
OFF 60.49' LT.

S81°51'22"E
51.43'

STA 1513+38.00
OFF 67.50' LT.

℄ ROUTE 100
MILL/OVERLAY

N81°51'22"W

90°

MATCHLINE STA. 1510+00.00

MATCHLINE STA. 1515+00.00

EXIST. UTILITY &
SEWER ESM'T

DRWY
STA. 1511+01.00 RT
NO IMPROVEMENTS

DRWY
STA. 1511+77.00 RT
NO IMPROVEMENTS

25
22P140064
13861 MANCHESTER RD
N/F
INLAND WESTERN TOWN & COUNTRY
MANCHESTER
DB 16042, PG 0200
105 SF P.H.E.
365 SF T.C.E.
2925914 SF ORIGINAL
2925914 SF REMAINING

22P120402
13849 MANCHESTER RD
N/F
VANTAGE CREDIT UNION
DB 23970, PG 795
NO ACQUISITION

22P210226
13829 MANCHESTER RD
N/F
13831 MANCHESTER ROAD LLC
DB 13170, PG 2071
NO ACQUISITION

ROW SHEET LEGEND
- EXISTING RIGHT-OF-WAY (EXIST. ROW)
- PERMANENT EASEMENT (P.H.E.)
- TEMPORARY CONSTRUCTION EASEMENT (T.C.E.)
- CONSTRUCTION LIMITS (SL)
- PROPOSED EPOXY URETHANE POLYMER OVERLAY
- SIDEWALK REMOVAL
- PROPOSED SIDEWALK
- PROPOSED MILL/OVERLAY

SHEET 24 OF 54

RIGHT OF WAY SHEET

MO ROUTE 100
MANCHESTER ROAD

STATE OF MISSOURI
BRIAN D. KIERATH JR.
NUMBER PE-2023008624
PROFESSIONAL ENGINEER
04/01/2025 10:41:00 AM
Brian D. Kierath Jr. - Civil
MO PE-2023008624

DATE PREPARED
4/1/2025

ROUTE	STATE
100	MO
DISTRICT	SHEET NO.
SL	84

COUNTY
ST. LOUIS

JOB NO.
J6P3274

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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GEORGE BUTLER
ASSOCIATES, INC.
PRO. ENGINEER 000133
ARCHITECT 000212
PRO. LAND SURVEYOR 000059

BRIAN KIERATH
PROFESSIONAL
ENGINEER
PE-2023008624

SCALE
0 20 40 60

30
22P120163
13850 MANCHESTER RD
N/F
S H J LLC A MISSOURI LLC
DB 11484, PG 0694
SEE SHEET 84

30
22P120163
13850 MANCHESTER RD
N/F
S H J LLC A MISSOURI LLC
DB 11484, PG 0694
SEE SHEET 84

29
22P120392
13894 MANCHESTER RD
N/F
WEST COUNTY CAR WASH INC
DB 22894, PG 222
374 P.H.E
944 SF T.C.E.
67720 SF ORIGINAL
67720 SF REMAINING

MATCHLINE STA. 1515+00.00

MATCHLINE STA. 1518+50.00

N81°51'22"W L = 212.00'
S08°08'38"W L = 4.64' STA 1515+50.00 OFF 72.14' LT.
STA 1515+50.00 OFF 67.50' LT.
DRWY STA. 1515+70.00 LT 30' WIDE PAVED APPROACH (8") GRADE = 1.0% (6'ADA PATH) / 1.0% AT ℄
N81°51'22"W L = 55.62'
STA 1516+05.62 OFF 72.14' LT. STA 1516+11.57 OFF 67.50' LT.
STA 1516+19.74 OFF 67.50' LT. N08°08'38"E L = 6.21' STA 1516+19.74 OFF 61.29' LT.
S81°59'39"E L = 115.26'
N81°51'22"W L = 115.26'
STA 1517+35.00 OFF 61.57' LT. S08°08'38"W L = 5.93' STA 1517+35.00 OFF 67.50'
S08°08'38"W L = 12.50' STA 1517+35.00 OFF 80.00' N82°01'08"W L = 14.52' STA 1517+50.00 OFF 80.00' N07°48'07"E L = 12.50' STA 1517+50.00 OFF 67.50'
L = 81.44' R = 2332.50'
L = 48.05' R = 2317.50'
STA 1518+33.79 OFF 67.50' LT.
N22°14'51"W L = 7.53' STA 1518+37.43 OFF 60.85' LT.

T.C.E.
EXIST. R/W
T.C.E.
EXIST. R/W

STA 1515+50.00 OFF 67.50' LT.
S81°59'39"E L = 333.18'
N43°54'56"W L = 7.54' N81°51'22"W L = 8.17'
PC STA 1517+35.68
S81°59'39"E L = 14.63' STA 1517+50.00 OFF 61.56' LT. N07°48'07"E L = 5.94' S81°59'39"E 37.15'
STA 1517+88.12 OFF 61.14' LT.

MILL/OVERLAY
℄ ROUTE 100
90°
90°

EXIST. R/W
EXIST. R/W

DRWY STA. 1516+79.00 RT NO IMPROVEMENTS

EXIST. UTILITY & SEWER ESM'T
EXIST. UTILITY & SEWER ESM'T

PROP_100	
PI	1523+21.51
PC	1517+35.68
PT	1528+84.87
△	27°26'5.5" (LT)
D	2°23'14.3"
L	1,149.19' (ARC)
T	585.83'
R	2,400.00'

25
22P140064
13861 MANCHESTER RD
N/F
INLAND WESTERN TOWN & COUNTRY MANCHESTER
DB 16042, PG 0200
SEE SHEET 84

ROW SHEET LEGEND
- EXISTING RIGHT-OF-WAY (EXIST. ROW)
- PERMANENT EASEMENT (P.H.E.)
- TEMPORARY CONSTRUCTION EASEMENT (T.C.E.)
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- PROPOSED SIDEWALK
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BRIAN D. KIERATH JR.
NUMBER PE-2023008624
PROFESSIONAL ENGINEER
04/01/2025 10:41:00 AM
Brian D. Kierath Jr. - Civil
MO PE-2023008624

DATE PREPARED 4/1/2025
ROUTE 100 | STATE MO
DISTRICT SL | SHEET NO. 85
COUNTY ST. LOUIS
JOB NO. J6P3274
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)

GBA
16305 SWINGLEY RIDGE RD
ST. 300
CHESTERFIELD, MO 63017
314.231.0100
GBAteam.com

GEORGE BUTLER ASSOCIATES, INC.
PRO. ENGINEER 000133
ARCHITECT 000212
PRO. LAND SURVEYOR 000059

SHEET 25 OF 54

RIGHT OF WAY SHEET

MO ROUTE 100
MANCHESTER ROAD

BRIAN KIERATH
PROFESSIONAL ENGINEER
PE-2023008624

SCALE
0 20 40 60

DISCLAIMER
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STATE OF MISSOURI
BRIAN D. KIERATH JR.
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DATE PREPARED 4/1/2025
ROUTE 100 | STATE MO
DISTRICT SL | SHEET NO. 86
COUNTY ST. LOUIS
JOB NO. J6P3274
CONTRACT ID.
PROJECT NO.
BRIDGE NO.

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MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
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GBA
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PRO. ENGINEER 000133
ARCHITECT 000212
PRO. LAND SURVEYOR 000059

BRIAN KIERATH
PROFESSIONAL ENGINEER
PE-2023008624

29
22P120392
13894 MANCHESTER RD
N/F
WEST COUNTY CAR WASH INC
DB 22894, PG 222
SEE SHEET 85

28
22P120310
13898 MANCHESTER RD
N/F
J D STREETT & COMPANY INC
DB 23846, PG 4265
337 P.H.E.
1,891 SF T.C.E.
39967 SF ORIGINAL
39967 SF REMAINING

27
22P120383
13920 MANCHESTER RD
N/F
DIETRICH MEADOWS LLC
DB 22894, PG 219
301 SF T.C.E.
470468 SF ORIGINAL
470468 SF REMAINING

25
22P140064
13861 MANCHESTER RD
N/F
INLAND WESTERN TOWN & COUNTRY MANCHESTER
DB 16042, PG 0200
SEE SHEET 84

MATCHLINE STA. 1518+50.00
MATCHLINE STA. 1523+00.00
EXIST. R/W
T.C.E.
PC STA 6+17.08
PT STA 4+35.56
S MANCHESTER MEADOWS
1520
EXIST. SAN. SEWER ESM'T
DRWY 51' WIDE PAVED APPROACH (8") / GRADE = 1.5% (6'ADA PATH) / 4.0% AT ℄
STA. 5+00.00 MANCHESTER MDWS = STA. 1519+74.74 ROUTE 100
STA. 5+00.00 SCHALL DR. = STA. 1519+70.95 ROUTE 100
℄ ROUTE 100
MILL/OVERLAY
EXIST. UTILITY & SEWER ESM'T
EXIST. MSD ESM'T
EXIST. SIGNAL ESM'T
EXIST. R/W
T.C.E.

N_MANCHESTER_MEADOWS	
PI	3+80.78
PC	3+22.93
PT	4+35.56
△	32°15'57.9" (RT)
D	28°38'52.2"
L	112.63' (ARC)
T	57.85'
R	200.00'

S_MANCHESTER_MEADOWS	
PI	6+98.15
PC	6+17.08
PT	7+71.82
△	42°13'9.5" (LT)
D	27°17'1.1"
L	154.74' (ARC)
T	81.07'
R	210.00'

PROP_100	
PI	1523+21.51
PC	1517+35.68
PT	1528+84.87
△	27°26'5.5" (LT)
D	2°23'14.3"
L	1,149.19' (ARC)
T	585.83'
R	2,400.00'

ROW SHEET LEGEND
- EXISTING RIGHT-OF-WAY (EXIST. ROW)
- PERMANENT EASEMENT (P.H.E.)
- TEMPORARY CONSTRUCTION EASEMENT (T.C.E.)
- CONSTRUCTION LIMITS (SL)
- PROPOSED EPOXY URETHANE POLYMER OVERLAY
- SIDEWALK REMOVAL
- PROPOSED SIDEWALK
- PROPOSED MILL/OVERLAY

SHEET 26 OF 54

RIGHT OF WAY SHEET

MO ROUTE 100
MANCHESTER ROAD

SCALE
0 20 40 60

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PROFESSIONAL ENGINEER
04/01/2025 10:41:01 AM
Brian D. Kierath Jr. - Civil
MO PE-2023008624

DATE PREPARED 4/1/2025
ROUTE 100 | STATE MO
DISTRICT SL | SHEET NO. 87
COUNTY ST. LOUIS
JOB NO. J6P3274
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)

GBA
16305 SWINGLEY RIDGE RD
ST. 300
CHESTERFIELD, MO 63017
314.231.0100
GBAteam.com

GEORGE BUTLER ASSOCIATES, INC.
PRO. ENGINEER 000133
ARCHITECT 000212
PRO. LAND SURVEYOR 000059

BRIAN KIERATH
PROFESSIONAL ENGINEER
PE-2023008624

EXIST. WATER ESM'T
EXIST. SAN. SEWER ESM'T
EXIST. WATER ESM'T
EXIST. ELEC. ESM'T
26
22P120338
13956 MANCHESTER RD
N/F
LENETTE REALTY & INVESTMENT COMPANY
DB 15428. PG 1576
9,164 SF P.H.E.
1,486 SF T.C.E.
70388 SF ORIGINAL
70388 SF REMAINING
EXIST. GAS ESM'T
EXIST. GAS ESM'T
EXIST. GAS & WATER ESM'T
EXIST. STL WATER CO. ESM'T
P.H.E.
EXIST. R/W
EXIST. R/W
T.C.E.
T.C.E.
P.H.E.
T.C.E.
EXIST. STL CO. SIDEWALK, SEWER, UTILITY ESM'T
EXIST. GAS ESM'T
EXIST. R/W
EXIST. R/W
EXIST. R/W
DRWY
STA. 1523+81.00 LT
40' WIDE PAVED APPROACH (8")
DRWY
STA. 1524+56.00 RT
31' WIDE PAVED APPROACH (8")
DIETRICH RD
MATCHLINE STA. 1523+00.00
MATCHLINE STA. 1528+00.00
1525
STA. 5+00.00 DIETRICH RD. = STA. 1527+87.63 ROUTE 100
℄ ROUTE 100
MILL/OVERLAY
STA 1526+47.15
END MILL/OVERLAY
BEGIN PAVEMENT RECONSTRUCTION
STA 1527+53.12
BEGIN MILL/OVERLAY
END PAVEMENT RECONSTRUCTION
BRIDGE #A2977 REPLACING BRIDGE #F01822
EXIST. UTILITY & SEWER ESM'T
EXIST. MSD ESM'T
EXIST. FEE FEE TRUNK SEWER ESM'T
EXIST. MSD ESM'T
EXIST. UTILITY & SEWER ESM'T
EXIST. UTILITY & SEWER ESM'T
EXIST. MSD ESM'T
EXIST. UTILITY & SEWER ESM'T
EXIST. SIGNAL ESM'T
25
22P140064
13861 MANCHESTER RD
N/F
INLAND WESTERN TOWN & COUNTRY MANCHESTER
DB 16042. PG 0200
SEE SHEET 84
EXIST. DRAINAGE ESM'T
EXIST. FEE FEE TRUNK SEWER ESM'T
SHEET 27 OF 54

L = 12.05' R = 2339.00'
L = 47.26' R = 62.50'
STA 1523+48.06 OFF 90.81' LT.
S82°47'57"W L = 5.67'
STA 1523+53.95 OFF 90.87' LT.
S82°47'57"W L = 53.36'
STA 1524+09.41 OFF 90.80' LT.
S82°47'57"W L = 5.63'
STA 1524+15.27 OFF 90.72' LT.
L = 48.59' R = 64.50'
STA 1524+52.15 OFF 59.50' LT.
L = 130.27' R = 2322.50'
L = 133.66' R = 2340.50'
STA 1525+89.21 OFF 59.50' LT.
STA 1525+89.25 OFF 72.67' LT.
S12°04'36"E L = 40.00'
STA 1525+89.36 OFF 112.67' LT.
L = 150.97' R = 2302.50'
L = 144.79' R = 2262.50'
STA 1527+41.27 OFF 112.32' LT.
N20°54'23"W L = 40.16'
STA 1527+44.91 OFF 72.31' LT.
L = 2.88' R = 2322.50'
STA 1523+02.87 OFF 53.60' LT.
STA 1523+11.88 OFF 61.00' LT.
L = 64.41' R = 67.50'
L = 149.72' R = 2322.50'
L = 60.79' R = 69.50'
STA 1524+55.99 OFF 53.06' LT.
STA 1525+89.19 OFF 52.67' LT.
S12°04'36"E L = 6.83'
90°
90°
94°20'59"

ROW SHEET LEGEND
EXISTING RIGHT-OF-WAY (EXIST. ROW)
PERMANENT EASEMENT (P.H.E.)
TEMPORARY CONSTRUCTION EASEMENT (T.C.E.)
CONSTRUCTION LIMITS (SL)
PROPOSED EPOXY URETHANE POLYMER OVERLAY
SIDEWALK REMOVAL
PROPOSED SIDEWALK
PROPOSED MILL/OVERLAY

RIGHT OF WAY SHEET
MO ROUTE 100
MANCHESTER ROAD

SCALE
0 20 40 60

22P110218
13960 MANCHESTER RD
N/F
AC MANCHESTER II LLC
DB 16071, PG 2971
NO ACQUISITION

22P110355
13970 MANCHESTER RD
N/F
ENERGY MARKETING 1877 LLC
DB 11521, PG 2075
NO ACQUISITION

22P110364
13970 MANCHESTER RD
N/F
V A D REALTY LLC
DB 22698, PG 43
NO ACQUISITION

DRWY
STA. 1528+80.00 LT
36' WIDE PAVED APPROACH (8")
GRADE = 1.5% (6'ADA PATH) / 4.0% AT ℄

DRWY
STA. 1529+39.00 LT
31' WIDE PAVED APPROACH (8")
GRADE = 1.5% (6'ADA PATH) / 4.0% AT ℄

DRWY
STA. 1530+49.00 LT
NO IMPROVEMENTS

DRWY
STA. 1530+90.00 LT
15' WIDE PAVED APPROACH (8")
GRADE = 1.5% (6'ADA PATH)

EXIST. R/W

MATCHLINE STA. 1528+00.00

MATCHLINE STA. 1533+00.00

PI STA 1528+84.87

MILL/OVERLAY

℄ ROUTE 100

90°

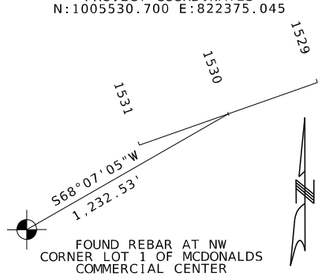
EXIST. GAS & WATER ESM'T

PROP_100	
PI	1523+21.51
PC	1517+35.68
PT	1528+84.87
△	27°26'5.5" (LT)
D	2°23'14.3"
L	1,149.19' (ARC)
T	585.83'
R	2,400.00'

22P110108
13975 MANCHESTER RD
N/F
K2M PROPERTIES LLC
DB 24700, PG 2292
NO ACQUISITION

LAND TIE #4

LAND CORNER TIE:
FOUND REBAR WITH CAP FARNSWORTH LS 299 AT NORTHWESTERN CORNER OF LOT 1 OF MCDONALDS COMMERCIAL CENTER
PB 249 PG 31
1,232.53 FEET SOUTHWEST OF BASELINE STATION 1530+00
PROJECT COORDINATES
N:1005530.700 E:822375.045



FOUND REBAR AT NW
CORNER LOT 1 OF MCDONALDS
COMMERCIAL CENTER

ROW SHEET LEGEND
- EXISTING RIGHT-OF-WAY (EXIST. ROW)
- PERMANENT EASEMENT (P.H.E.)
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DATE PREPARED
4/1/2025

ROUTE	STATE
100	MO
DISTRICT	SHEET NO.
SL	88

COUNTY
ST. LOUIS

JOB NO.
J6P3274

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

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

GBA
16305 SWINGLEY RIDGE RD
ST. 300
CHESTERFIELD, MO 63017
314.231.0100
GBAteam.com

GEORGE BUTLER ASSOCIATES, INC.
PRO. ENGINEER 000133
ARCHITECT 000212
PRO. LAND SURVEYOR 000059

SHEET 28 OF 54

RIGHT OF WAY SHEET

MO ROUTE 100
MANCHESTER ROAD

BRIAN KIERATH
PROFESSIONAL ENGINEER
PE-2023008624

SCALE
0 20 40 60

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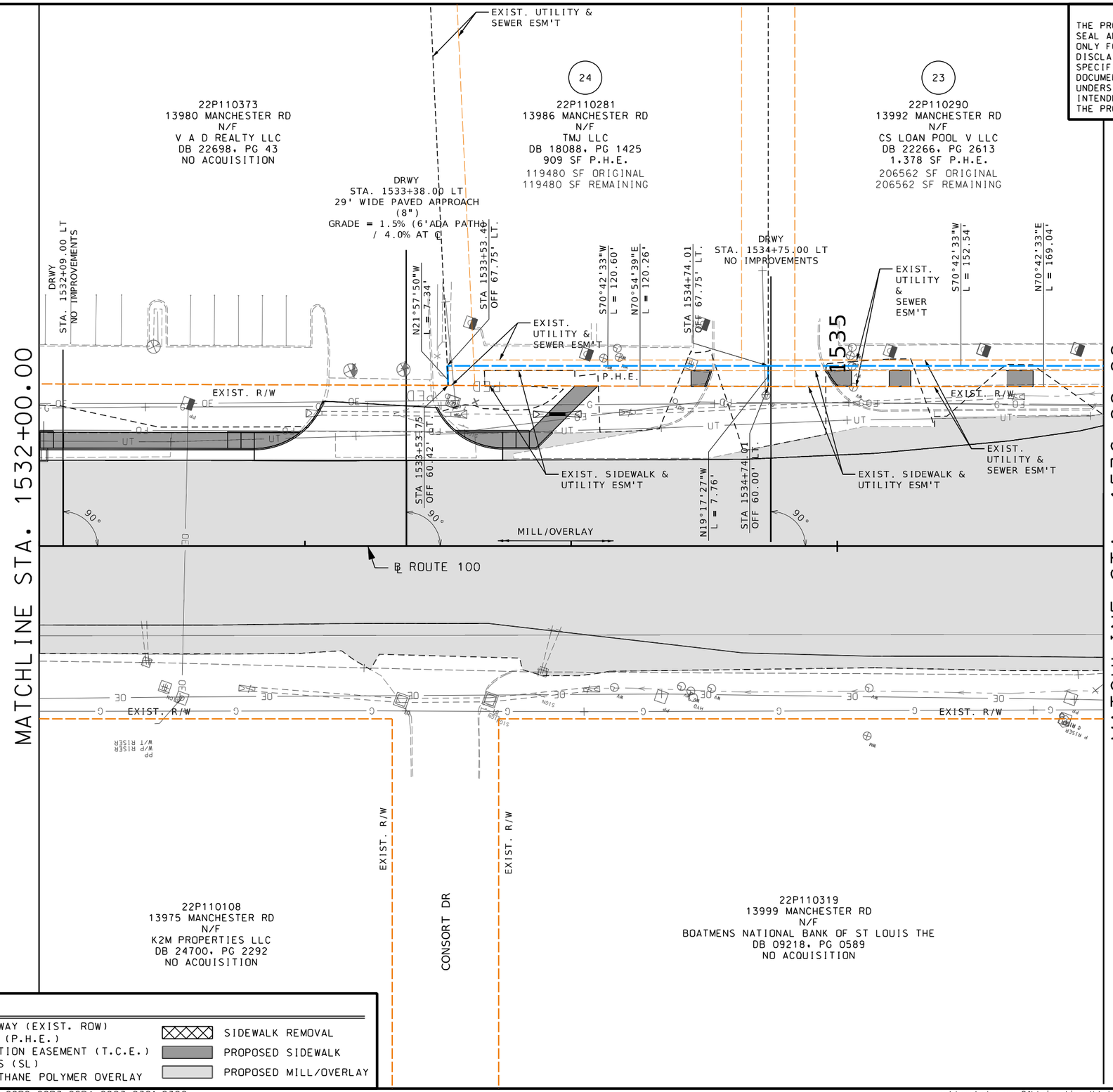

ROW SHEET LEGEND

- EXISTING RIGHT-OF-WAY (EXIST. ROW)
- PERMANENT EASEMENT (P.H.E.)
- TEMPORARY CONSTRUCTION EASEMENT (T.C.E.)
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- PROPOSED SIDEWALK
- PROPOSED MILL/OVERLAY

STATE OF MISSOURI
BRIAN D. KIERATH JR.
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04/01/2025 10:41:02 AM
Brian D. Kierath Jr. - Civil
MO PE-2023008624

DATE PREPARED
4/1/2025

ROUTE	STATE
100	MO
DISTRICT	SHEET NO.
SL	89

COUNTY
ST. LOUIS

JOB NO.
J6P3274

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

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GBAteam.com

GEORGE BUTLER ASSOCIATES, INC.
PRO. ENGINEER 000133
ARCHITECT 000212
PRO. LAND SURVEYOR 000059

SHEET 29 OF 54

RIGHT OF WAY SHEET

MO ROUTE 100
MANCHESTER ROAD

BRIAN KIERATH
PROFESSIONAL ENGINEER
PE-2023008624

SCALE
0 20 40 60

ROW SHEET LEGEND

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- PERMANENT EASEMENT (P.H.E.)
- TEMPORARY CONSTRUCTION EASEMENT (T.C.E.)
- CONSTRUCTION LIMITS (SL)
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- PROPOSED SIDEWALK
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MATCHLINE STA. 1536+00.00

MATCHLINE STA. 1540+75.00

END STA 6+87.99

23
SEE PREVIOUS SHEET FOR PROPERTY INFO

6'W SDWK & UTILITY ESMT PB 347 PG 630

10'W UTILITY & SEWER ESMT PB 347 PG 630

EXIST. R/W

℄ WEIDMAN RD

L = 152.54'
S 70°42'33" W
STA. 1536+26.54
67.75'LT.
R = 42.06'
L = 24.40'
STA. 1536+48.97
76.48'LT.

EXIST. R/W

P.H.E.

L = 17.51'
N 00°27'44" E
STA. 1536+43.05
60.00'LT.

L = 169.04'
N 70°42'33" E

STA. 1537+60.19
104.21'LT.

STA. 1537+81.44
83.27'LT.
L = 2.41'
S 64°42'27" E
STA. 1537+83.15
81.58'LT.
L = 3.68'
S 82°21'41" W
L = 36.70'
S 64°42'27" E

EXIST. R/W
EXIST. ESM'T
EXIST. ESM'T

L = 5.00'
S 25°17'33" W
STA. 1537+84.95
86.83'LT.
STA. 1537+86.75
80.84'LT.
L = 29.84'
N 64°42'27" W

STA. 1538+06.20
65.89'LT.
L = 12.25'
N 89°51'30" W
STA. 1538+17.75
61.81'LT.
L = 55.17'
S 70°43'23" W
STA. 1538+72.92
61.81'LT.

T.C.E.

P.H.E.

L = 25.75'
N 64°42'27" W
STA. 1538+05.09
62.76'LT.

STA. 1538+24.78
55.82'LT.
L = 15.49'
N 70°43'23" E
L = 20.88'
N 89°51'30" W
STA. 1538+09.29
55.82'LT.

82°17'31"

STA. 5+00.00 WEIDMAN RD. =
STA. 1537+28.91 ROUTE 100

S26°59'56"E

℄ RTE 100

90°

21
22P110328
101 S WEIDMAN RD
N/F
MCKEE BARNET M REVOCABLE TRUST
DB , PG
(NOT AVAILABLE)
116 SF P.H.E.
465 SF T.C.E.
41418 SF ORIGINAL
41418 SF REMAINING

20
22Q320052
13998 MANCHESTER RD
N/F
WILLIAMSBURG ENTERPRISES LLC
A MISSOURI
DB 12310, PG 1589
200 SF T.C.E.
43508 SF ORIGINAL
43508 SF ORIGINAL

L = 4.00'
N 22°12'37" W
STA. 1538+73.12
57.80'LT.
L = 2.00'
S 22°12'37" E
L = 100.01'
S 70°43'23" W

STA. 1538+73.23
55.80'LT.
L = 48.44'
N 70°43'23" E

L = 100.01'
N 70°43'23" E
STA. 1539+73.13
57.78'LT.
L = 8.01'
S 22°12'37" E
STA. 1539+72.73
65.78'LT.

L = 2.00'
S 22°12'37" E
STA. 1539+73.24
55.78'LT.

LOT 2
MCDONALD'S COMMERCIAL CENTER
PB 249 PG 31

19
22Q320171
14004 MANCHESTER RD
N/F
HALE REAL ESTATE GROUP LLC
DB 20726, PG 726
289 SF T.C.E.
30201 SF ORIGINAL
30201 SF REMAINING

L = 27.49'
S 70°43'23" W
STA. 1540+00.22
65.77'LT.
L = 10.00'
N 19°16'37" W
STA. 1540+57.26
57.76'LT.
L = 8.51'
S 70°43'23" W
L = 8.51'
N 70°43'23" E
STA. 1540+65.77
57.76'LT.

T.C.E.

EXIST. R/W

1540

L = 2.00'
S 19°16'37" E

STA. 1540+00.21
55.77'LT.
L = 26.98'
N 70°43'23" E

STA. 1540+57.26
55.76'LT.
L = 2.00'
S 19°16'37" E
STA. 1540+65.77
55.76'LT.

EXIST. R/W

EXIST. R/W

EXIST. ESM'T

EXIST. ESM'T

EXIST. R/W

EXIST. R/W

℄ WEIDMAN RD

STA. 1538+10.28
136.02'RT.
L = 5.47'
S 85°39'02" W
STA. 1538+15.57
137.43'RT.
L = 28.08'
S 05°52'25" E
L = 42.76'
N 04°20'58" W
STA. 1538+03.76
163.34'RT.
L = 15.43'
S 22°11'27" E
STA. 1538+04.55
178.74'RT.

T.C.E.

22
22Q320209
14001 MANCHESTER RD
N/F
FIRST BANK
DB 8457, PG 1445
178 SF T.C.E.
63020 SF ORIGINAL
63020 SF REMAINING

PARCEL 1
CARAFOIL PLAZA
PB 188 PG 49

SHEET 30 OF 54

RIGHT OF WAY

ROUTE 100
MANCHESTER ROAD

STATE OF MISSOURI
JENNIFER L. HUBER
NUMBER PE-2022000257
PROFESSIONAL ENGINEER
Jennifer Huber
03/27/2025 3:14:59 PM
Jennifer Huber - Civil
MO PE-2022000257

DATE PREPARED
3/27/2025

US ROUTE	STATE
100	MO
DISTRICT	SHEET NO.
SL	90

COUNTY
ST. LOUIS

JOB NO.
J6P3274

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)

CMT
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ONE MEMORIAL DRIVE, SUITE 500
ST. LOUIS, MO 63102 (314) 436-5500
ENGINEERING CORPORATION - 000631

SCALE
0 20 40 60

LOT 1
MCDONALD'S COMMERCIAL CENTER
PB 249 PG 31
(18)
22O320162
14026 MANCHESTER RD
N/F
DELAWARE MCDONALD'S CORPORATION
DB 7713, PG 1351
148 SF T.C.E.
75872 SF ORIGINAL
75872 SF REMAINING

LOT 1
U.S.I. 100 SUBDIVISION
PB 197 PGS 70 & 71
(17)
230640171
14086 MANCHESTER RD
US 1 100 CO
DB 7492, PG 2436
35 SF P.H.E.
3837 SF T.C.E.
433664 SF ORIGINAL
433664 SF REMAINING

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MATCHLINE STA. 1540+75.00

L = 35.79'
S 70°43'23" W
STA. 1541+01.55
57.75'LT.

L = 2.00'
N 19°16'37" W

STA. 1541+01.55
55.75'LT.

L = 2.00'
S 19°16'37" E

STA. 1541+83.19
57.73'LT.

L = 38.30'
S 70°43'23" W

L = 2.00'
N 19°16'37" W
STA. 1542+21.48
57.72'LT.

STA. 1542+21.48
55.72'LT.

STA. 1542+31.27
67.94'LT.

L = 12.22'
S 19°16'37" E

T.C.E.

L = 172.62'
S 71°09'48" W

L = 180.78'
N 70°43'23" E

T.C.E.

STA. 1544+03.88
66.57'LT.

L = 5.89'
N 19°16'37" W
STA. 1544+03.88
60.68'LT.

STA. 1544-12.05
58.17' LT.

L = 14.00'
S 70°43'23" W

STA. 1544-26.05
58.17' LT.

P.H.E

L = 376.29'
S 70°43'23" W

T.C.E.

T.C.E.

EXIST. R/W

1545

EXIST. R/W

L = 35.79'
N 70°43'23" E

STA. 1541+83.19
55.73'LT.

L = 38.30'
N 70°43'23" E

55.72'LT.
STA. 1542+31.27

STA. 1544+12.05
55.67'LT.

L = 2.50'
N 19°16'37" W

STA. 1544+26.05
55.67'LT.

L = 14.00
N 70°43'23" E

L = 2.50'
S 19°16'37" E

L = 352.48'
N 70°43'23" E

95°44'25"

90°

90°

℄ RTE 100

MATCHLINE STA. 1546+00.00

60.29' RT
STA. 1541+78.84

EXIST. R/W

EXIST. R/W

220320218
14007 MANCHESTER RD
N/F
JS CRE MANCHESTER LLC
DB 23800, PG 1854
PARCEL 2
NO ACQUISITION

LOT 2
SUBDIVISION OF PARCEL 3 OF CARAFOIL PLAZA
PB 217 PG 95

ROW SHEET LEGEND
- EXISTING RIGHT-OF-WAY (EXIST. ROW)
- PERMANENT EASEMENT (P.H.E.)
- TEMPORARY CONSTRUCTION EASEMENT (T.C.E.)
- CONSTRUCTION LIMITS (SL)
- PROPOSED EPOXY URETHANE POLYMER OVERLAY
- SIDEWALK REMOVAL
- PROPOSED SIDEWALK
- PROPOSED MILL/OVERLAY

SHEET 31 OF 54

RIGHT OF WAY

ROUTE 100
MANCHESTER ROAD

STATE OF MISSOURI
JENNIFER L. HUBER
NUMBER PE-2022000257
PROFESSIONAL ENGINEER

03/27/2025 3:14:59 PM
Jennifer Huber - Civil
MO PE-2022000257

DATE PREPARED
3/27/2025

US ROUTE	STATE
100	MO
DISTRICT	SHEET NO.
SL	91

COUNTY
ST. LOUIS

JOB NO.
J6P3274

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)

CMT
CRAWFORD, MURPHY & TILLY, INC.
ONE MEMORIAL DRIVE, SUITE 500
ST. LOUIS, MO 63102 (314) 436-5500
ENGINEERING CORPORATION - 000631
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SCALE
0 20 40 60

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17
SEE PREVIOUS SHEET FOR PROPERTY INFO

16
220320043
14100 MANCHESTER RD
ACERE, LLC
DB 21722, PG 1137
283 SF T.C.E.
15995 SF ORIGINAL
15995 SF REMAINING

ADJUSTED LOT A
BOUNDARY ADJUSTMENT PLAT OF ADJUSTED LOT A IN THE RESUBSDIVISION OF PART OF LOT 3 OF LACY ESTATES BOUNDARY ADJUSTMENT PLAT
PB 352 PG 805

15
230640683
14116 MANCHESTER RD
N/F
14116 MANCHESTER ROAD,LLC
DB 19704, PG 186
3424 SF T.C.E.
232705 SF ORIGINAL
232705 SF REMAINING

MATCHLINE STA. 1546+00.00

MATCHLINE STA. 1551+00.00

L = 376.29'
S 70°43'23" W
T.C.E.
EXIST. R/W
STA. 1547+80.17
60.59' LT.
STA. 1547+78.53
55.59' LT.
L = 5.26'
N 01°03'37" W
STA. 1548+62.72
55.57' LT.
L = 7.00'
S 19°16'37" E
STA. 1548+62.72
62.57' LT.
L = 41.66'
S 70°43'23" W
STA. 1549+02.04
55.56' LT.
L = 7.38'
S 00°47'37" E
STA. 1549+04.38
62.56' LT.
L = 7.66'
S 00°47'37" E
STA. 1549+06.81
69.82' LT.
L = 63.72'
S 69°53'28" W
STA. 1549+70.52
70.73' LT.
L = 5.56'
N 19°38'53" W
STA. 1549+70.56
65.17' LT.
L = 231.89'
S 70°43'23" W
L = 352.48'
N 70°43'23" E
L = 84.19'
S 70°43'23" W
L = 39.32'
N 70°43'23" E
L = 290.43'
N 70°43'23" E
71°44'6"
90°
℄ RTE 100

220310042
14101 MANCHESTER RD
N/F
JS CRE MANCHESTER LLC
DB 23800, PG 1854
PARCEL 1
NO ACQUISITION

LOT 1
A SUBDIVISION OF PARCEL 3 OF CARAFOIL PLAZA
PB 217 PG 95

220320117
14141 MANCHESTER RD
JS CRE MANCHESTER LLC
DB 23800, PG 1854
PARCEL 7
NO ACQUISITION

PARCEL 2
CARAFOIL PLAZA
PB 188 PG 49

SEE PREVIOUS SHEET FOR PROPERTY INFO

ROW SHEET LEGEND
- EXISTING RIGHT-OF-WAY (EXIST. ROW)
- PERMANENT EASEMENT (P.H.E.)
- TEMPORARY CONSTRUCTION EASEMENT (T.C.E.)
- CONSTRUCTION LIMITS (SL)
- PROPOSED EPOXY URETHANE POLYMER OVERLAY
- SIDEWALK REMOVAL
- PROPOSED SIDEWALK
- PROPOSED MILL/OVERLAY

SHEET 32 OF 54

RIGHT OF WAY

ROUTE 100
MANCHESTER ROAD

STATE OF MISSOURI
PROFESSIONAL ENGINEER
JENNIFER L. HUBER
NUMBER PE-2022000257
03/27/2025 3:14:59 PM
Jennifer Huber - Civil
MO PE-2022000257

DATE PREPARED 3/27/2025
US ROUTE 100 | STATE MO
DISTRICT SL | SHEET NO. 92
COUNTY ST. LOUIS
JOB NO. J6P3274
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)

CMT
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ONE MEMORIAL DRIVE, SUITE 500
ST. LOUIS, MO 63102 (314) 436-5500
ENGINEERING CORPORATION - 000631

SCALE
0 20 40 60

15
SEE PREVIOUS SHEET FOR PROPERTY INFO

℄ BRAESHIRE RD

LOT 2
OLD ORCHARD CENTER
PB 309 PGS 35 & 36

14
230630271
14120 MANCHESTER RD
N/F
TAYCO OLD ORCHARLD JUNIOR L C
DB 16499, PG 2678
1261 SF P.H.E.
324 SF T.C.E.
30969 SF ORIGINAL
30969 SF REMAINING

LOT 3
OLD ORCHARD CENTER
PB 309 PGS 35 & 36

13
230630242
14124 MANCHESTER RD
N/F
TAYCO OLD ORCHARLD JUNIOR L C
DB 16499, PG 2678
260 SF P.H.E.
986 SF T.C.E.
24309 SF ORIGINAL
24309 SF REMAINING

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MATCHLINE STA. 1551+00.00

MATCHLINE STA. 1556+00.00

EXIST. R/W
EXIST. ESM'T
P.H.E.
T.C.E.
L = 231.89′ S 70°43′23″ W
STA. 1551+92.47 55.49′LT.
STA. 1552+02.45 65.11′LT.
R = 86.00′ L = 45.35′
R = 91.00′ L = 61.01′
STA. 1552+35.67 95.20′LT.
L = 5.01′ N 73°14′01″ W
STA. 1552+53.03 126.38′LT.
STA. 1552+39.72 92.25′LT.
L = 290.43′ N 70°43′23″ E
S19°42′58″E L = 29.01′ S 19°17′27″ E
STA. 1553+13.01 84.02′LT.
L = 27.90′ N 56°15′30″ W
STA. 1553+29.78 61.73′LT.
L = 90.50′ S 70°42′33″ W
L = 159.66′ N 70°42′33″ E
STA. 1553+13.01 55.00′LT.
STA. 1554+20.28 61.73′LT.
L = 8.55′ S 40°45′33″ E
STA. 1554+17.15 69.68′LT.
L = 34.11′ S 70°42′33″ W
L = 31.20′ S 70°29′39″ W
STA. 1554+48.35 69.79′LT.
L = 10.08′ N 56°08′01″ W
STA. 1554+54.40 61.73′LT.
L = 8.07′ S 19°17′27″ E
STA. 1554+64.94 69.80′LT.
L = 7.73′ S 70°34′08″ W
STA. 1554+72.67 69.82′LT.
STA. 1554+72.67 61.73′LT.
L = 65.32′ S 70°34′08″ W
L = 38.82′ S 70°42′33″ W
L = 9.97′ N 19°25′52″ W
STA. 1555+37.98 69.98′LT.
STA. 1555+38.01 60.00′LT.
L = 54.66′ S 70°42′33″ W
STA. 1555+92.67 55.00′LT.
L = 5.00′ N 19°17′27″ W
STA. 1555+92.67 60.00′LT.
L = 10.54′ S 70°42′33″ W
STA. 1554+64.94 61.73′LT.
L = 7.73′ S 70°42′33″ W
L = 8.09′ S 19°17′27″ E
STA. 1554+72.67 55.00′LT.
L = 6.73′ S 19°17′27″ E
125°6′53″
L = 38.59′ N 70°42′33″ E
STA. 1555+11.48 61.73′LT.
L = 6.73′ N 17°23′32″ W
STA. 1555+11.26 55.00′LT.
L = 81.41′ N 70°42′33″ E
1555

STA. 5+00.00 S. BRAESHIRE DR. = STA. 1552+87.26 ROUTE 100
STA. 5+00.00 N. BRAESHIRE DR. STA. 1552+96.78 ROUTE 100
90°
76°9′0″
℄ RTE 100
S33°08′28″E
℄ BRAESHIRE RD

SEE PREVIOUS SHEET FOR PROPERTY INFO
SEE SHEET 35 FOR PROPERTY INFO
SEE NEXT SHEET FOR PROPERTY INFO

ROW SHEET LEGEND
- EXISTING RIGHT-OF-WAY (EXIST. ROW)
- PERMANENT EASEMENT (P.H.E.)
- TEMPORARY CONSTRUCTION EASEMENT (T.C.E.)
- CONSTRUCTION LIMITS (SL)
- PROPOSED EPOXY URETHANE POLYMER OVERLAY
- SIDEWALK REMOVAL
- PROPOSED SIDEWALK
- PROPOSED MILL/OVERLAY

SHEET 33 OF 54

RIGHT OF WAY

ROUTE 100
MANCHESTER ROAD

JENNIFER L. HUBER
NUMBER PE-2022000257
PROFESSIONAL ENGINEER
STATE OF MISSOURI
Jennifer Huber
03/27/2025 3:14:59 PM
Jennifer Huber - Civil
MO PE-2022000257

DATE PREPARED 3/27/2025
US ROUTE 100
STATE MO
DISTRICT SL
SHEET NO. 93
COUNTY ST. LOUIS
JOB NO. J6P3274
CONTRACT ID.
PROJECT NO.
BRIDGE NO.

DESCRIPTION
DATE
NO.

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)

CMT
CRAWFORD, MURPHY & TILLY, INC.
ONE MEMORIAL DRIVE, SUITE 500
ST. LOUIS, MO 63102 (314) 436-5500
ENGINEERING CORPORATION - 000631
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SCALE
0 20 40 60

LOT 1
OLD ORCHARD CENTER
PB 309 PGS 35 & 36
230630194
1250 OLD ORCHARD CTR
N/F
TAYCO OLD ORCHARLD JUNIOR L C
DB 16499, PG 2678
NO ACQUISITION

LOT 4
OLD ORCHARD CENTER
PB 309 PGS 35 & 36

12
230630224
14128 MANCHESTER RD
N/F
TAYCO OLD ORCHARLD JUNIOR L C
DB 16499, PG 2678
422 SF T.C.E.
24453 SF ORIGINAL
24453 SF REMAINING

SEE NEXT SHEET FOR
PROPERTY INFO

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MATCHLINE STA. 1556+00.00

STA. 1556+24.67
60.00' LT.
L = 5.00'
S 19°17'27" E
STA. 1556+24.67
55.00' LT.
L = 84.37'
S 70°42'33" W
STA. 1557+09.04
60.00' LT.
L = 5.00'
N 19°17'27" W
STA. 1557+09.04
55.00' LT.
EXIST. ESM'T
EXIST. ESM'T
L = 10.22'
S 07°27'27" E
STA. 1557+86.76
65.00' LT.
STA. 1557+84.67
55.00' LT.

EXIST. ESM'T
T.C.E.
EXIST. R/W
EXIST. R/W

L = 32.00'
S 70°42'33" W
L = 84.37'
N 70°42'33" E
L = 75.63'
S 70°42'33" W
90°

℄ RTE 100

MATCHLINE STA. 1561+00.00

EXIST. R/W
EXIST. R/W

22Q310116
14169 MANCHESTER RD
N/F
MANCHESTER COMMONS LLC
DB 13744, PG 417
NO ACQUISITION

LOT B
MANCHESTER COMMONS
PB 350 PG 167

ROW SHEET LEGEND
- EXISTING RIGHT-OF-WAY (EXIST. ROW)
- PERMANENT EASEMENT (P.H.E.)
- TEMPORARY CONSTRUCTION EASEMENT (T.C.E.)
- CONSTRUCTION LIMITS (SL)
- PROPOSED EPOXY URETHANE POLYMER OVERLAY
- SIDEWALK REMOVAL
- PROPOSED SIDEWALK
- PROPOSED MILL/OVERLAY

SHEET 34 OF 54

RIGHT OF WAY

ROUTE 100
MANCHESTER ROAD

STATE OF MISSOURI
JENNIFER L. HUBER
NUMBER PE-2022000257
PROFESSIONAL ENGINEER
03/27/2025 3:15:00 PM
Jennifer Huber - Civil
MO PE-2022000257

DATE PREPARED
3/27/2025

US ROUTE	STATE
100	MO
DISTRICT	SHEET NO.
SL	94

COUNTY
ST. LOUIS

JOB NO.
J6P3274

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)

CMT
CRAWFORD, MURPHY & TILLY, INC.
ONE MEMORIAL DRIVE, SUITE 500
ST. LOUIS, MO 63102 (314) 436-5500
ENGINEERING CORPORATION - 000631
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SCALE
0 20 40 60

ROW SHEET LEGEND

- EXISTING RIGHT-OF-WAY (EXIST. ROW)
- PERMANENT EASEMENT (P.H.E.)
- TEMPORARY CONSTRUCTION EASEMENT (T.C.E.)
- CONSTRUCTION LIMITS (SL)
- PROPOSED EPOXY URETHANE POLYMER OVERLAY
- SIDEWALK REMOVAL
- PROPOSED SIDEWALK
- PROPOSED MILL/OVERLAY

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OLD ORCHARD VILLAGE PLAY THREE
PB 152 PGS 42 & 43

10
VOID
230630114
1204 KNOLLHAVEN DR
N/F
ORCHARD VILLAGE
KNOLLHAVEN LLC
DB 21702, PG 375

END STA 6+23.69

℄ KNOLLHAVEN RD

MATCHLINE STA. 1561+00.00

EXIST. R/W

1565

PC STA 1565+38.72

MATCHLINE STA. 1566+00.00

5
STA. 5+00.00 KNOLLHAVEN LN. =
STA. 1563+18.05 ROUTE 100

90°

S19°17'27"E

℄ RTE 100

STA. 1562+91.00
74.81' RT.

L = 40.49'
S 70° 41'24" W

STA. 1562+50.51
74.82' RT.

T.C.E.

11
230630260
14177 MANCHESTER RD
N/F
LZB FURNITURE GALLERIES
OF ST LOUIS INC
DB 13744, PG 429

323 SF T.C.E.
65259 SF ORIGINAL
65259 SF REMAINING

LOT A
MANCHESTER COMMONS
PB 350 PG 167

L = 7.99'
S 19° 18'36" E
STA. 1562+50.51
82.81' RT.

L = 40.26'
N 70° 41'24" E
STA. 1562+90.78
82.80' RT.

L = 8.00'
N 17° 43'24" W

℄ KNOLLHAVEN RD

22Q310093
14161 MANCHESTER RD
N/F
MENARD INC
DB 20152, PG 1941
NO ACQUISITION

LOT 1
LOT SPLIT
PB 272 PGS 36 & 37

22Q220136
14167 MANCHESTER RD
N/F
OLIVE STREET ROAD LLC
DB 17103, PG 4386
NO ACQUISITION

SEE NEXT SHEET FOR PROPERTY INFO

SHEET 35 OF 54

RIGHT OF WAY

ROUTE 100
MANCHESTER ROAD

JENNIFER L. HUBER
NUMBER
PE-2022000257
STATE OF MISSOURI
PROFESSIONAL ENGINEER
03/27/2025 3:15:00 PM
Jennifer Huber - Civil
MO PE-2022000257

DATE PREPARED
3/27/2025

US ROUTE	STATE
100	MO

DISTRICT	SHEET NO.
SL	95

COUNTY
ST. LOUIS

JOB NO.
J6P3274

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)

CMT
CRAWFORD, MURPHY & TILLY, INC.
ONE MEMORIAL DRIVE, SUITE 500
ST. LOUIS, MO 63102 (314) 436-5500
ENGINEERING CORPORATION - 000631

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SCALE
0 20 40 60

ROW SHEET LEGEND

- EXISTING RIGHT-OF-WAY (EXIST. ROW)
- PERMANENT EASEMENT (P.H.E.)
- TEMPORARY CONSTRUCTION EASEMENT (T.C.E.)
- CONSTRUCTION LIMITS (SL)
- PROPOSED EPOXY URETHANE POLYMER OVERLAY
- SIDEWALK REMOVAL
- PROPOSED SIDEWALK
- PROPOSED MILL/OVERLAY

DISCLAIMER
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STATE OF MISSOURI
JENNIFER L. HUBER
NUMBER PE-2022000257
PROFESSIONAL ENGINEER
Jennifer Huber
03/27/2025 3:15:00 PM
Jennifer Huber - Civil
MO PE-2022000257

DATE PREPARED: 3/27/2025
US ROUTE: 100 | STATE: MO
DISTRICT: SL | SHEET NO.: 96
COUNTY: ST. LOUIS
JOB NO.: J6P3274
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)

CMT
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ONE MEMORIAL DRIVE, SUITE 500
ST. LOUIS, MO 63102 (314) 436-5500
ENGINEERING CORPORATION - 000631

230540785
14180 MANCHESTER RD
N/F
POKRES FAMILY LIMITED PARTNERSHIP THE
DB 10763, PG 754
NO ACQUISITION

230540749
14188 MANCHESTER RD
N/F
POKRES FAMILY LIMITED PARTNERSHIP
DB 16711, PG 1552
NO ACQUISITION

9
230540538
14196 MANCHESTER RD
N/F
CHOI CHI WOONG & BONG HI H/W ETAL
DB 21170, PG 1503
27 SF P.H.E.
101 SF T.C.E.
45076 SF ORIGINAL
45076 SF REMAINING

℄ ENCHANTED PKWY

SEE NEXT SHEET FOR PROPERTY INFO

STA. 1566+00.00

MATCHLINE STA. 1570+00.00

MATCHLINE STA. 1571+00.00

EXIST. R/W

STA. 1569+54.28
57.43'LT.

L = 10.06'
S 06°54'04" E

STA. 1569+54.27
67.48'LT.

L = 13.23'
S 83°05'56" W

STA. 1569+67.04
67.54'LT.

PT STA 6+02.35

S00°28'44"E

T.C.E.
P.H.E.

RC STA 5+65.45

L = 19.96'
S 01°26'10" E

STA. 1570+35.32
77.47'LT.

L = 19.30'
N 63°34'11" W

STA. 1570+51.32
67.65'LT.

L = 145.79'
S 87°08'03" W

EXIST. ESM'T

L = 7.28'
S 58°18'14" W

STA. 1569+60.69
60.50'LT.

L = 5.93'
S 84°52'53" W
R=1970.08'
L=12.27'

STA. 1570+66.19
57.53'LT.

L = 2.83'
N 01°26'10" W

STA. 1569+66.43
60.35'LT.

L = 7.22'
N 01°26'10" W

STA. 1570+34.32
57.54'LT.

L = 143.52'
N 87°08'03" E

85°48'5"

90°

100°13'25"

87°56'6"

℄ RTE 100

STA. 5+00.00 ENCHANTED PKWY. =
STA. 1569+99.03 ROUTE 100

S03°12'25"E

230540767
14181 MANCHESTER RD
N/F
LAND WEST #1 LLC
DB 15603, PG 38
PARCEL 1
NO ACQUISITION

230540767
14181 MANCHESTER RD A
N/F
LAND WEST #1 LLC
DB 15603, PG 38
PARCEL 3
NO ACQUISITION

230540767
14181 MANCHESTER RD A
N/F
LAND WEST #1 LLC
DB 15603, PG 38
PARCEL 2
NO ACQUISITION

230540794
14193 MANCHESTER RD
N/F
AUTOZONE INC
DB 1189, PG 77
LOT B2
HOMEQUARTERS SUBDIVISION
PB 345 PGS 36 & 37
NO ACQUISITION

℄ ENCHANTED PKWY

SHEET 36 OF 54

RIGHT OF WAY

ROUTE 100
MANCHESTER ROAD

SCALE
0 20 40 60

8
230540345
14200 MANCHESTER RD
N/F
REGIONS BANK
DB 21944, PG 2071
1794 SF P.H.E.
41897 SF ORIGINAL
41897 SF REMAINING

230540886
14240 MANCHESTER RD
N/F
EXTREME ST. LOUIS CHARITABLE
FOUNDATION THE COFFEE SHOP BUILDING
DB 22182, PG 2439
PARCEL 3

7
230540877
14206 MANCHESTER RD
N/F
LLS HOLDINGS LLC
DB 19844 PG 3250
PARCEL 3
345 SF P.H.E.
194501 SF ORIGINAL
194501 SF REMAINING

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MATCHLINE STA. 1571+00.00

MATCHLINE STA. 1576+00.00

EXIST. ESM'T
EXIST. ESM'T
EXIST. ESM'T
EXIST. ESM'T
EXIST. ESM'T

STA. 1571+92.04
70.36' LT.
L = 29.82'
N 89°04'28" W
STA. 1572+20.80
70.26' LT.
L = 11.33'
N 03°15'12" W
STA. 1572+21.65
58.97' LT.
L = 145.79'
S 87°08'03" W
L = 143.52'
N 87°08'03" E
P.H.E.
EXIST. R/W
STA. 1571+73.62
58.87' LT.
L = 18.33'
N 89°25'15" E
L = 11.31'
S 03°38'21" W
STA. 1571+91.40
59.07' LT.
L = 31.19'
S 89°04'28" E
PT STA 1572+32.44
℄ RTE 100
EXIST. R/W
EXIST. R/W
EXIST. R/W
EXIST. R/W
EXIST. R/W
EXIST. ESM'T
EXIST. ESM'T
EXIST. ESM'T
1575

22Q220347
14201 MANCHESTER RD
N/F
HDX ACQUISITION, LLC
DB 19184, PG 1592
NO ACQUISITION

RE-ADJUSTED LOT B1
BOUNDARY ADJUSTMENT PLAT
PB 359 PG 230

23Q540859
14231 MANCHESTER RD
N/F
EAGLE BANK AND TRUST COMPANY
OF MISSOURI
DB 17798, PG 3449
NO ACQUISITION

230540868
14229 MANCHESTER RD
N/F
EAGLE BANK AND TRUST COMPANY
OF MISSOURI
DB 17798, PG 3449
NO ACQUISITION

LOT 8
MANCHESTER HIGHLANDS PLAT TWO
PB 356 PG 96

ROW SHEET LEGEND
- EXISTING RIGHT-OF-WAY (EXIST. ROW)
- PERMANENT EASEMENT (P.H.E.)
- TEMPORARY CONSTRUCTION EASEMENT (T.C.E.)
- CONSTRUCTION LIMITS (SL)
- PROPOSED EPOXY URETHANE POLYMER OVERLAY
- SIDEWALK REMOVAL
- PROPOSED SIDEWALK
- PROPOSED MILL/OVERLAY

SHEET 37 OF 54

RIGHT OF WAY

ROUTE 100
MANCHESTER ROAD

STATE OF MISSOURI
JENNIFER L. HUBER
NUMBER PE-2022000257
PROFESSIONAL ENGINEER
03/27/2025 3:15:00 PM
Jennifer Huber - Civil
MO PE-2022000257

DATE PREPARED
3/27/2025

US ROUTE	STATE
100	MO
DISTRICT	SHEET NO.
SL	97

COUNTY
ST. LOUIS

JOB NO.
J6P3274

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)

CMT
CRAWFORD, MURPHY & TILLY, INC.
ONE MEMORIAL DRIVE, SUITE 500
ST. LOUIS, MO 63102 (314) 436-5500
ENGINEERING CORPORATION - 000631
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SCALE
0 20 40 60

ADJUSTED LOT A2
LOT CONSOLIDATION PLAT OF LOT A2 OF THERESUBDIVISION OF LOT A OF MALAN PLAZA AS RECORDED IN PLAT BOOK 350 PAGE 108 AND LOT B OF MALAN PLAZA PB 363 PG 515
230530720
14244 MANCHESTER RD
N/F
UE MANCHESTER LLC
DB 22542, PG 699
NO ACQUISITION

6

230530665
14248 MANCHESTER RD
N/F
SIGNS OF SNOWMASS LLC
DB 17488, PG 1705
294 SF P.H.E.
537 SF T.C.E.
65260 SF ORIGINAL
65260 SF REMAINING

230540886
14240 MANCHESTER RD
N/F
EXTREME ST. LOUIS CHARITABLE FOUNDATION THE COFFEE SHOP BUILDING
DB 22182, PG 2439
PARCEL 2

230540877
14206 MANCHESTER RD
LLS HOLDINGS LLC
DG 19844, PG 3250
PARCEL 2
NO ACQUISITION

LOT 'A1'
MALAN PLAZA LOT 'A'
PB 350 PG 108

230530083
14266 MANCHESTER RD
N/F
BFS RETAIL & COMMERCIAL OPERATIONS LLC
DB 13481, PG 289
NO ACQUISITION

1580

℄ HIGHLANDS BLVD

MATCHLINE STA. 1576+00.00

MATCHLINE STA. 1581+00.00

EXIST. ESM'T

EXIST. R/W

T.C.E.

P.H.E.

L = 0.98′
S 00°33′47″ W
STA. 1577+13.47
65.97′ LT.

L = 83.45′
N 88°28′51″ W

L = 83.05′
S 88°28′51″ E

STA. 1577+13.48
64.99′ LT.

STA. 1576+96.53
64.99′ LT.

STA. 1577+96.92
65.97′ LT.

L = 52.96′
N 72°17′11″ W

L = 52.18′
S 71°46′54″ E

STA. 1578+47.78
51.20′ LT.

L = 8.16′
N 88°28′51″ W

STA. 1578+55.94
51.20′ LT.

L = 10.48′
S 01°30′46″ W

STA. 1578+55.94
61.68′ LT.

EXIST. ESM'T
STA. 1578+61.66
55.68′ LT.

L = 57.39′
N 88°28′51″ W

L = 51.77′
N 88°28′51″ W

STA. 1579+13.42
55.68′ LT.

STA. 1579+13.32
61.68′ LT.

L = 6.00′
N 00°33′47″ E

S01°13′13″W

STA. 1578+46.51
50.00′ LT.

L = 15.14′
S 88°28′51″ E

STA. 1578+61.66
50.00′ LT.

L = 5.68′
S 01°30′46″ W

L = 51.86′
S 88°28′51″ E

STA. 1579+13.52
50.00′ LT.

L = 5.68′
N 00°33′47″ E

90°

℄ RTE 100

STA. 5+00.00 HIGHLANDS BLVD. =
STA. 1579+32.90 ROUTE 100

S01°31′09″W

PT STA 4+16.23

230220356
14239 MANCHESTER RD
N/F
PACE-HIGHLAND EAST ASSOCIATES, LLC
DB 20060, PG 520
NO ACQUISITION
ADJUSTED LOT 7
BOUNDARY ADJUSTMENT PLAT
PB 359 PG 230

℄ HIGHLANDS BLVD

EXIST. ESM'T (FROM RECORD PLANS)

SEE NEXT SHEET FOR PROPERTY INFO

250530711
14275 MANCHESTER RD
N/F
TKG-MANCHESTER HIGHLANDS SHOPPING CENTER, LLC
DB 20296, PG 4661
TRACT 3
PARCEL C
NO ACQUISITION

ROW SHEET LEGEND
- EXISTING RIGHT-OF-WAY (EXIST. ROW)
- PERMANENT EASEMENT (P.H.E.)
- TEMPORARY CONSTRUCTION EASEMENT (T.C.E.)
- CONSTRUCTION LIMITS (SL)
- PROPOSED EPOXY URETHANE POLYMER OVERLAY
- SIDEWALK REMOVAL
- PROPOSED SIDEWALK
- PROPOSED MILL/OVERLAY

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STATE OF MISSOURI
JENNIFER L. HUBER
NUMBER PE-2022000257
PROFESSIONAL ENGINEER
03/27/2025 3:15:00 PM
Jennifer Huber - Civil
MO PE-2022000257

DATE PREPARED
3/27/2025

US ROUTE	STATE
100	MO
DISTRICT	SHEET NO.
SL	98

COUNTY
ST. LOUIS

JOB NO.
J6P3274

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)

CRAWFORD, MURPHY & TILLY, INC.
ONE MEMORIAL DRIVE, SUITE 500
ST. LOUIS, MO 63102 (314) 436-5500
ENGINEERING CORPORATION - 000631

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SHEET 38 OF 54

RIGHT OF WAY

ROUTE 100
MANCHESTER ROAD

SCALE
0 20 40 60

LOT C
MALAN PLAZA
PB 209 PG 55

5
23O530463
14268 MANCHESTER RD
N/F
H & H INVESTMENTS
DB 7812, PG 1405
77 SF P.H.E.
1298 SF T.C.E.
47645 SF ORIGINAL
47645 REMAINING

4
23O530436
151 GAYWOOD DR
N/F
MANCHESTER CITY OF
DB 8883, PG 2395
209 SF P.H.E.
559 SF T.C.E.
17480 SF ORIGINAL
17480 SF REMAINING

3
23O530292
14270 MANCHESTER RD
N/F
WALMAR INVESTMENT CO
DB 6707, PG 1258
250 SF P.H.E.
2332 SF T.C.E.
70554 SF ORIGINAL
70554 SF REMAINING

2
230530711
14275 MANCHESTER RD
N/F
TKG-MANCHESTER HIGHLANDS SHOPPING CENTER, LLC
DB 20296, PG 4661
TRACT 2
70 SF P.H.E.
256 SF T.C.E.
478675 SF ORIGINAL
478675 SF REMAINING

READJUSTED LOT 3
MANCHESTER HIGHLANDS PLAT TWO
PB 356 PG 96

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MATCHLINE STA. 1581+00.00

MATCHLINE STA. 1586+00.00

SEE NEXT SHEET FOR PROPERTY INFO

EXIST. ESM'T
EXIST. R/W
T.C.E.
P.H.E.
STA. 1581+13.34
66.00' LT.
L = 6.00'
S 00°33'47" W
STA. 1581+13.44
60.00' LT.
L = 176.13'
N 88°28'51" W
L = 7.35'
S 01°31'09" W
STA. 1582+89.48
66.00' LT.
L = 181.19'
S 88°28'51" E
STA. 1582+97.07
64.37' LT.
STA. 1582+89.48
73.35' LT.
L = 23.73'
N 88°28'51" W
L = 8.98'
S 00°33'47" W
STA. 1583+13.21
73.35' LT.
L = 39.41'
N 88°28'51" W
STA. 1583+52.62
73.35' LT.
L = 9.44'
S 00°33'47" W
STA. 1583+52.46
82.79' LT.
L = 10.60'
N 88°28'51" W
STA. 1583+63.06
82.79' LT.
L = 0.44'
N 88°28'51" W
STA. 1583+63.50
82.79' LT.
L = 18.81'
S 00°33'47" W
L = 13.86'
N 00°33'47" E
STA. 1583+63.73
68.93' LT.
L = 81.60'
N 88°02'06" W
STA. 1584+45.32
68.29' LT.
L = 14.18'
S 01°31'09" W
STA. 1584+45.32
82.47' LT.
L = 46.97'
N 87°35'51" W
L = 11.69'
N 01°31'09" E
STA. 1584+92.29
81.75' LT.
STA. 1584+92.29
70.06' LT.
L = 71.17'
N 87°35'51" W
L = 8.69'
S 00°33'47" W
STA. 1585+63.31
77.66' LT.
L = 100.08'
S 86°50'12" W
STA. 1585+63.46
68.97' LT.
L = 11.15'
N 00°33'47" E
STA. 1585+63.64
57.82' LT.
L = 91.14'
N 86°50'12" E
95°40'21"
STA. 1582+94.64
60.00' LT.
L = 5.00'
S 30°39'56" W
L = 16.29'
N 88°28'51" W
L = 18.80'
S 88°28'51" E
STA. 1583+13.43
60.00' LT.
L = 4.37'
S 00°33'47" W
STA. 1583+13.36
64.37' LT.
L = 50.00'
S 88°28'51" E
L = 50.01'
N 88°02'06" W
STA. 1583+63.44
60.00' LT.
L = 3.98'
N 00°33'47" E
STA. 1583+63.37
63.98' LT.
L = 59.10'
S 88°28'51" E
L = 61.75'
N 88°02'06" W
STA. 1584+22.54
60.00' LT.
L = 13.19'
S 87°35'51" E
STA. 1584+25.12
63.50' LT.
L = 11.24'
N 69°14'40" W
STA. 1584+35.73
59.79' LT.
L = 127.93'
S 87°35'51" E
90°
℄ RTE 100
1585
EXIST. R/W
EXIST. ESM'T (FROM RECORD PLANS)

ROW SHEET LEGEND
- EXISTING RIGHT-OF-WAY (EXIST. ROW)
- PERMANENT EASEMENT (P.H.E.)
- TEMPORARY CONSTRUCTION EASEMENT (T.C.E.)
- CONSTRUCTION LIMITS (SL)
- PROPOSED EPOXY URETHANE POLYMER OVERLAY
- SIDEWALK REMOVAL
- PROPOSED SIDEWALK
- PROPOSED MILL/OVERLAY

SHEET 39 OF 54

RIGHT OF WAY

ROUTE 100
MANCHESTER ROAD

STATE OF MISSOURI
JENNIFER L. HUBER
NUMBER PE-2022000257
PROFESSIONAL ENGINEER
03/27/2025 3:15:00 PM
Jennifer Huber - Civil
MO PE-2022000257

DATE PREPARED 3/27/2025
US ROUTE 100 | STATE MO
DISTRICT SL | SHEET NO. 99
COUNTY ST. LOUIS
JOB NO. J6P3274
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)

CMT
CRAWFORD, MURPHY & TILLY, INC.
ONE MEMORIAL DRIVE, SUITE 500
ST. LOUIS, MO 63102 (314) 436-5500
ENGINEERING CORPORATION - 000631
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SCALE
0 20 40 60

1

230530739
14298 MANCHESTER RD
N/F
WOHLFAHRT HOLDINIGS LLC
DB 21655, PG 552
NO ACQUISITION

℄ NB MO-141 OFF RAMP

PC STA 401+48.52

EXIST. R/W

230530656
14290 MANCHESTER RD
N/F
RDJ LLC
DB 25010, PG 310
PARCEL 1
848 SF T.C.E.
211331 SF ORIGINAL
211331 SF REMAINING

L = 100.08'
S 86°50'12" W

STA. 1586+63.05
85.83' LT.

L = 4.25'
N 00°34'05" E

STA. 1586+63.12
81.57' LT.

EXIST. R/W

L = 10.24'
N 61°11'54" E

L = 91.14'
N 86°50'12" E

STA. 1586+54.29
76.41' LT.

LAND CORNER TIE:
FOUND IRON PIPE WITH CAP LS14D AT SOUTHWESTERN CORNER OF
LOT 8 OF MANCHESTER HIGHLANDS PLAT TWO
PB 356 PG 96
1,154.61 FEET NORTHEAST OF BASELINE STATION 1588+00.00
PROJECT COORDINATES
N:1004798.451 E:819083.876

FOUND IRON PIPE SW CORNER
LOT 8 MANCHESTER HIGHLANDS
PLAT TWO

S87°53'33"W
1,154.61'

1589 1588 1587

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℄ SB MO-141 ON RAMP

PC STA 201+23.14

MATCHLINE STA. 1586+00.00

MATCHLINE STA. 1591+00.00

1590

S01°31'09"W

STA. 400+00.00 NB MO-141 OFF-RAMP =
STA. 1588+06.18 ROUTE 100

STA. 200+00 SB MO-141 ON-RAMP =
STA. 1590+63.11 ROUTE 100

90°

400 300 200 100

℄ RTE 100

STA. 300+00.00 NB MO-141 ON-RAMP =
STA. 1588+14.18 ROUTE 100

STA. 100+00.00 SB MO-141 OFF-RAMP =
STA. 1590+67.33 ROUTE 100

L = 3.96
N 87°41'40" W
STA. 1586+95.32
74.81' RT.

STA. 1586+99.28
74.87' RT.
L = 15.12'
N 87°41'40" W
L = 12.80'
N 87°41'40" W
STA. 1587+12.08
75.04' RT.
L = 3.12'
N 47°54'06" W
STA. 1587+14.45
77.08' RT.
L = 7.81'
N 47°54'06" W

EXIST. R/W
(FROM RECORD PLANS)

L = 2.00'
S 00°00'00" W
L = 7.01'
N 00°00'00" E
STA. 1586+95.50
81.82' RT.
STA. 1587+99.33
76.87' RT.
L = 24.88'
S 87°41'40" E

EXIST. ESMT
(FROM RECORD PLANS)

STA. 1587+20.38
82.16' RT.

EXIST. R/W

S01°46'05"W

SEE PREVIOUS SHEET FOR
PROPERTY INFO

℄ PT STA 298+58.29

L = 9.92'
S 88°40'20" W
L = 5.00'
N 88°38'24" E
STA. 1587+46.12
174.89' RT.
STA. 1587+41.33
170.13' RT.
L = 8.30'
N 01°41'31" W
L = 18.30'
S 00°10'53" E
STA. 1587+46.58
183.18' RT.
STA. 1587+41.87
188.42' RT.

L = 10.00'
N 88°40'20" E

STA. 1587+51.23
169.63' RT.
L = 5.01'
N 02°51'49" E
STA. 1587+51.11
174.64' RT.
L = 8.30'
N 01°41'31" W
STA. 1587+51.58
182.93' RT.
L = 5.00'
N 01°41'31" W

L = 5.00'
S 88°40'20" W

℄ NB MO-141
ON RAMP

℄ SB MO-141 OFF RAMP

ROW SHEET LEGEND
- EXISTING RIGHT-OF-WAY (EXIST. ROW)
- PERMANENT EASEMENT (P.H.E.)
- TEMPORARY CONSTRUCTION EASEMENT (T.C.E.)
- CONSTRUCTION LIMITS (SL)
- PROPOSED EPOXY URETHANE POLYMER OVERLAY
- SIDEWALK REMOVAL
- PROPOSED SIDEWALK
- PROPOSED MILL/OVERLAY

SHEET 40 OF 54

RIGHT OF WAY

ROUTE 100
MANCHESTER ROAD

STATE OF MISSOURI
JENNIFER L. HUBER
NUMBER PE-2022000257
PROFESSIONAL ENGINEER

Jennifer Huber
03/27/2025 3:15:00 PM
Jennifer Huber - Civil
MO PE-2022000257

DATE PREPARED
3/27/2025

US ROUTE	STATE
100	MO
DISTRICT	SHEET NO.
SL	100

COUNTY
ST. LOUIS

JOB NO.
J6P3274

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)

CMT
CRAWFORD, MURPHY & TILLY, INC.
ONE MEMORIAL DRIVE, SUITE 500
ST. LOUIS, MO 63102 (314) 436-5500
ENGINEERING CORPORATION - 000631

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SCALE
0 20 40 60

MATCHLINE STA. 1591+00.00

EXIST. R/W

EXIST. R/W

EXIST. R/W

EXIST. R/W

END STA 1594+14.18

END PROJECT
STA. 1592+85.69

EXIST. R/W

EXIST. R/W

EXIST. R/W

EXIST. R/W

EXIST. R/W

ROW SHEET LEGEND

- EXISTING RIGHT-OF-WAY (EXIST. ROW)
- PERMANENT EASEMENT (P.H.E.)
- TEMPORARY CONSTRUCTION EASEMENT (T.C.E.)
- CONSTRUCTION LIMITS (SL)
- PROPOSED EPOXY URETHANE POLYMER OVERLAY
- SIDEWALK REMOVAL
- PROPOSED SIDEWALK
- PROPOSED MILL/OVERLAY

DISCLAIMER
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STATE OF MISSOURI
JENNIFER L. HUBER
NUMBER PE-2022000257
PROFESSIONAL ENGINEER

Jennifer Huber
03/27/2025 3:15:00 PM
Jennifer Huber - Civil
MO PE-2022000257

DATE PREPARED
3/27/2025

US ROUTE	STATE
100	MO
DISTRICT	SHEET NO.
SL	101

COUNTY
ST. LOUIS

JOB NO.
J6P3274

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)

CMT
CRAWFORD, MURPHY & TILLY, INC.
ONE MEMORIAL DRIVE, SUITE 500
ST. LOUIS, MO 63102 (314) 436-5500
ENGINEERING CORPORATION - 000631

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SHEET 41 OF 54

RIGHT OF WAY

ROUTE 100
MANCHESTER ROAD

SCALE
0 20 40 60

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℄ ROUTE 100 EB

ROUTE 100 RAMP

PT STA 1407+53.77

℄ ROUTE 100 WB

SEE J6P3274B FOR GUARDRAIL IMPROVEMENTS

N79°59'05"W

BRIDGE A56822
SEE J6P3274B FOR BRIDGE IMPROVEMENTS

MATCHLINE STA. 1406+00.00

MATCHLINE STA. 1411+00.00

J.J. KELLEY MEMORIAL DR

I-270 RAMP

I-270

1410

TREES (DND)

ROW SHEET LEGEND

- EXISTING RIGHT-OF-WAY (EXIST. ROW)
- PERMANENT EASEMENT (P.H.E.)
- TEMPORARY CONSTRUCTION EASEMENT (T.C.E.)
- CONSTRUCTION LIMITS (SL)
- PROPOSED EPOXY URETHANE POLYMER OVERLAY
- SIDEWALK REMOVAL
- PROPOSED SIDEWALK
- PROPOSED MILL/OVERLAY

SHEET 42 OF 54

RIGHT OF WAY SHEET

MO ROUTE 100
MANCHESTER ROAD

STATE OF MISSOURI
BRIAN D. KIERATH JR.
NUMBER PE-2023008624
PROFESSIONAL ENGINEER

04/01/2025 10:41:02 AM
Brian D. Kierath Jr. - Civil
MO PE-2023008624

DATE PREPARED
4/1/2025

ROUTE	STATE
100	MO
DISTRICT	SHEET NO.
SL	102

COUNTY
ST. LOUIS

JOB NO.
J6P3274

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)

GBA
16305 SWINGLEY RIDGE RD
ST. 300
CHESTERFIELD, MO 63017
314.231.0100
GBAteam.com

GEORGE BUTLER ASSOCIATES, INC.
PRO. ENGINEER 000133
ARCHITECT 000212
PRO. LAND SURVEYOR 000059

BRIAN KIERATH
PROFESSIONAL ENGINEER
PE-2023008624

24MSD-00037 : BASEMAPS 2201, 2204, 22P2, 22P3, 22P4, 22Q3, 23Q1, 23Q2

c:\bms\gba-pw-01\brian kierath\dms05298\102_RW_42_J6P3274_I20.dgn 9:32:05 AM 4/1/2025

SCALE
0 20 40 60

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MATCHLINE STA. 1411+00.00

MATCHLINE STA. 1416+00.00

I-270

I-270 RAMP

1415

EXIST. R/W

PC STA 1411+66.07

BRIDGE A56822
SEE J6P3274B FOR BRIDGE IMPROVEMENTS

℄ ROUTE 100 WB

100 RAMP

CORPORATE HILL DR

PROP_100_WB	
PI	1413+94.63
PC	1411+66.07
PT	1416+22.18
△	9°20'0.0" (LT)
D	2°2'46.6"
L	456.11'
T	228.56'
R	2,800.00'

ROW SHEET LEGEND

- EXISTING RIGHT-OF-WAY (EXIST. ROW)
- PERMANENT EASEMENT (P.H.E.)
- TEMPORARY CONSTRUCTION EASEMENT (T.C.E.)
- CONSTRUCTION LIMITS (SL)
- PROPOSED EPOXY URETHANE POLYMER OVERLAY
- SIDEWALK REMOVAL
- PROPOSED SIDEWALK
- PROPOSED MILL/OVERLAY

SHEET 43 OF 54

RIGHT OF WAY SHEET

MO ROUTE 100
MANCHESTER ROAD

STATE OF MISSOURI
BRIAN D. KIERATH JR.
NUMBER PE-2023008624
PROFESSIONAL ENGINEER

04/01/2025 10:41:02 AM
Brian D. Kierath Jr. - Civil
MO PE-2023008624

DATE PREPARED
4/1/2025

ROUTE	STATE
100	MO
DISTRICT	SHEET NO.
SL	103

COUNTY
ST. LOUIS

JOB NO.
J6P3274

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)

GBA
16305 SWINGLEY RIDGE RD
ST. 300
CHESTERFIELD, MO 63017
314.231.0100
GBAteam.com

GEORGE BUTLER ASSOCIATES, INC.
PRO. ENGINEER 000133
ARCHITECT 000212
PRO. LAND SURVEYOR 000059

BRIAN KIERATH
PROFESSIONAL ENGINEER
PE-2023008624

24MSD-00037 : BASEMAPS 2201, 2204, 22P2, 22P3, 22P4, 22Q3, 23Q1, 23Q2

c:\bms\gba-pw-01\brian kierath\dms05298\103_RW_43_J6P3274_I20.dgn 9:32:22 AM 4/1/2025

SCALE
0 20 40 60

MATCHLINE STA. 1416+00.00

PT STA 1416+22.18

BRIDGE A56822
SEE J6P3274B FOR BRIDGE IMPROVEMENTS

℄ ROUTE 100 WB

N89°19'05"W

1420

MATCHLINE STA. 1421+00.00

CORPORATE HILL DR

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ROW SHEET LEGEND

- EXISTING RIGHT-OF-WAY (EXIST. ROW)
- PERMANENT EASEMENT (P.H.E.)
- TEMPORARY CONSTRUCTION EASEMENT (T.C.E.)
- CONSTRUCTION LIMITS (SL)
- PROPOSED EPOXY URETHANE POLYMER OVERLAY
- SIDEWALK REMOVAL
- PROPOSED SIDEWALK
- PROPOSED MILL/OVERLAY

SHEET 44 OF 54

RIGHT OF WAY SHEET

MO ROUTE 100
MANCHESTER ROAD

STATE OF MISSOURI
BRIAN D. KIERATH JR.
NUMBER PE-2023008624
PROFESSIONAL ENGINEER
04/01/2025 10:41:03 AM
Brian D. Kierath Jr. - Civil
MO PE-2023008624

DATE PREPARED
4/1/2025

ROUTE	STATE
100	MO
DISTRICT	SHEET NO.
SL	104

COUNTY
ST. LOUIS

JOB NO.
J6P3274

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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CHESTERFIELD, MO 63017
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GBAteam.com

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ASSOCIATES, INC.
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ARCHITECT 000212
PRO. LAND SURVEYOR 000059

BRIAN KIERATH
PROFESSIONAL
ENGINEER
PE-2023008624

SCALE
0 20 40 60

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MATCHLINE STA. 1421+00.00

MATCHLINE STA. 1426+00.00

EXIST. R/W

PC STA. 1423+43.21

BRIDGE A56822
SEE J6P3274B FOR BRIDGE IMPROVEMENTS

℄ ROUTE 100 WB

1425

74
220420691
1011 DES PERES RD
N/F
FRANKLIN MANCHESTER RD. LLC
DB 24300, PG 3982
SEE SHEET 67

DES PERES RD

FO

STORM

SIGN

SHEET 45 OF 54

ROW SHEET LEGEND

- EXISTING RIGHT-OF-WAY (EXIST. ROW)
- PERMANENT EASEMENT (P.H.E.)
- TEMPORARY CONSTRUCTION EASEMENT (T.C.E.)
- CONSTRUCTION LIMITS (SL)
- PROPOSED EPOXY URETHANE POLYMER OVERLAY
- SIDEWALK REMOVAL
- PROPOSED SIDEWALK
- PROPOSED MILL/OVERLAY

RIGHT OF WAY SHEET

MO ROUTE 100
MANCHESTER ROAD

STATE OF MISSOURI
BRIAN D. KIERATH JR.
NUMBER PE-2023008624
PROFESSIONAL ENGINEER
04/01/2025 10:41:03 AM
Brian D. Kierath Jr. - Civil
MO PE-2023008624

DATE PREPARED
4/1/2025

ROUTE	STATE
100	MO
DISTRICT	SHEET NO.
SL	105

COUNTY
ST. LOUIS

JOB NO.
J6P3274

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)

GBA
16305 SWINGLEY RIDGE RD
ST. 300
CHESTERFIELD, MO 63017
314.231.0100
GBAteam.com

GEORGE BUTLER ASSOCIATES, INC.
PRO. ENGINEER 000133
ARCHITECT 000212
PRO. LAND SURVEYOR 000059

BRIAN KIERATH
PROFESSIONAL ENGINEER
PE-2023008624

24MSD-00037 : BASEMAPS 22Q1, 22Q4, 22P2, 22P3, 22P4, 22Q3, 23Q1, 23Q2

c:\bms\gba-pw-01\brian kierath\dms05298\105_RW_45_J6P3274_120.dgn 9:32:51 AM 4/1/2025

SCALE
0 20 40 60

74

220420691
1011 DES PERES RD
N/F
FRANKLIN MANCHESTER RD. LLC
DB 24300. PG 3982
SEE SHEET 67

1430

MATCHLINE STA. 1426+00.00

EXIST. R/W

PT STA 1429+03.36

MILL/OVERLAY

℄ ROUTE 100 WB

ROUTE 100 RAMP

ROUTE 100 RAMP

EXIST. R/W

MATCHLINE STA. 1431+00.00

220440280
1301 DES PERES RD
N/F
LOCKWOOD DPR LLC
DB 21669. PG 402
NO AQUISITION

ROW SHEET LEGEND

- EXISTING RIGHT-OF-WAY (EXIST. ROW)
- PERMANENT EASEMENT (P.H.E.)
- TEMPORARY CONSTRUCTION EASEMENT (T.C.E.)
- CONSTRUCTION LIMITS (SL)
- PROPOSED EPOXY URETHANE POLYMER OVERLAY
- SIDEWALK REMOVAL
- PROPOSED SIDEWALK
- PROPOSED MILL/OVERLAY

SHEET 46 OF 54

RIGHT OF WAY SHEET

MO ROUTE 100
MANCHESTER ROAD

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STATE OF MISSOURI
BRIAN D. KIERATH JR.
NUMBER PE-2023008624
PROFESSIONAL ENGINEER

04/01/2025 10:41:03 AM
Brian D. Kierath Jr. - Civil
MO PE-2023008624

DATE PREPARED
4/1/2025

ROUTE	STATE
100	MO
DISTRICT	SHEET NO.
SL	106

COUNTY
ST. LOUIS

JOB NO.
J6P3274

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)

GBA
16305 SWINGLEY RIDGE RD
ST. 300
CHESTERFIELD, MO 63017
314.231.0100
GBAteam.com

GEORGE BUTLER ASSOCIATES, INC.
PRO. ENGINEER 000133
ARCHITECT 000212
PRO. LAND SURVEYOR 000059

BRIAN KIERATH
PROFESSIONAL ENGINEER
PE-2023008624

SCALE
0 20 40 60

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74
220420691
1011 DES PERES RD
N/F
FRANKLIN MANCHESTER RD, LLC
DB 24300, PG 3982
SEE SHEET 67

73
220420701
12969 MANCHESTER RD
N/F
WHITE CO MANCHESTER, 1 LLC
DB 22360, PG 2206
SEE SHEET 68

72
220420747
13001 MANCHESTER RD
N/F
RRG 28, LLC
DB 21676, PG 133
SEE SHEET 68

MATCHLINE STA. 1431+00.00

MATCHLINE STA. 1436+00.00

EXIST. R/W

EXIST. R/W

EXIST. R/W

PC STA 1434+96.73

PC STA 5+42.02

1435

WESTMARK DR

S07°30'23"W

MILL/OVERLAY

N83°28'58"W

℄ ROUTE 100 WB

EXIST. R/W

EXIST. R/W

EXIST. R/W

220440280
1301 DES PERES RD
N/F
LOCKWOOD DPR LLC
DB 21669, PG 402
NO AQUISITION

220440192
12842 THORNHILL CT
N/F
GAVINI RAJENDRA & PRASUNA TRUSTEES
DB 21764, PG 960
NO AQUISITION

ROW SHEET LEGEND
- EXISTING RIGHT-OF-WAY (EXIST. ROW)
- PERMANENT EASEMENT (P.H.E.)
- TEMPORARY CONSTRUCTION EASEMENT (T.C.E.)
- CONSTRUCTION LIMITS (SL)
- PROPOSED EPOXY URETHANE POLYMER OVERLAY
- SIDEWALK REMOVAL
- PROPOSED SIDEWALK
- PROPOSED MILL/OVERLAY

SHEET 47 OF 54

RIGHT OF WAY SHEET

MO ROUTE 100
MANCHESTER ROAD

STATE OF MISSOURI
BRIAN D. KIERATH JR.
NUMBER PE-2023008624
PROFESSIONAL ENGINEER

04/01/2025 10:41:04 AM
Brian D. Kierath Jr. - Civil
MO PE-2023008624

DATE PREPARED
4/1/2025

ROUTE	STATE
100	MO
DISTRICT	SHEET NO.
SL	107

COUNTY
ST. LOUIS

JOB NO.
J6P3274

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)

GBA
16305 SWINGLEY RIDGE RD
ST. 300
CHESTERFIELD, MO 63017
314.231.0100
GBAteam.com

GEORGE BUTLER ASSOCIATES, INC.
PRO. ENGINEER 000133
ARCHITECT 000212
PRO. LAND SURVEYOR 000059

BRIAN KIERATH
PROFESSIONAL ENGINEER
PE-2023008624

SCALE
0 20 40 60

72
220420747
13001 MANCHESTER RD
N/F
RRG 28, LLC
DB 21676, PG 133
SEE SHEET 68

EXIST. INGRESS & EGRESS ESM'T

220420682
1112 WESTMARK DR
N/F
MRM PROPERTIES L L C ETAL
DB 16245, PG 1106
NO AQUISITION

10

EXIST. R/W

PT STA 6+13.99

PC STA 9+06.29

PT STA 9+76.73

EXIST. R/W

EXIST. R/W

EXIST. R/W

EXIST. R/W

WESTMARK DR

S89°58'53"W

1440

EXIST. R/W

MATCHLINE STA. 1436+00.00

MATCHLINE STA. 1441+00.00

MILL/OVERLAY

℄ ROUTE 100 WB

EXIST. R/W

EXIST. R/W

TOPPING RD

220440217
12858 THORNHILL CT
N/F
CHULICK ALBERTA BJORKMAN & PETER T/E
DB 24630, PG 2347
NO AQUISITION

PROP_100_WB	
PI	1440+41.63
PC	1434+96.73
PT	1445+76.78
Δ	18°45'8.2" (LT)
D	1°44'10.4"
L	1,080.05' (ARC)
T	544.90'
R	3,300.00'

WESTMARK_DR	
PI	5+85.85
PC	5+42.02
PT	6+13.99
Δ	82°28'29.9" (RT)
D	114°35'28.8"
L	71.97' (ARC)
T	43.83'
R	50.00'

WESTMARK_DR	
PI	9+51.05
PC	9+06.29
PT	9+76.73
Δ	89°40'54.9" (LT)
D	127°19'25.3"
L	70.44' (ARC)
T	44.75'
R	45.00'

ROW SHEET LEGEND
- EXISTING RIGHT-OF-WAY (EXIST. ROW)
- PERMANENT EASEMENT (P.H.E.)
- TEMPORARY CONSTRUCTION EASEMENT (T.C.E.)
- CONSTRUCTION LIMITS (SL)
- PROPOSED EPOXY URETHANE POLYMER OVERLAY
- SIDEWALK REMOVAL
- PROPOSED SIDEWALK
- PROPOSED MILL/OVERLAY

SHEET 48 OF 54

RIGHT OF WAY SHEET

MO ROUTE 100
MANCHESTER ROAD

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STATE OF MISSOURI
BRIAN D. KIERATH JR.
NUMBER PE-2023008624
PROFESSIONAL ENGINEER
04/01/2025 10:41:04 AM
Brian D. Kierath Jr. - Civil
MO PE-2023008624

DATE PREPARED 4/1/2025
ROUTE 100 | STATE MO
DISTRICT SL | SHEET NO. 108
COUNTY ST. LOUIS
JOB NO. J6P3274
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)

GBA
16305 SWINGLEY RIDGE RD
ST. 300
CHESTERFIELD, MO 63017
314.231.0100
GBAteam.com

GEORGE BUTLER ASSOCIATES, INC.
PRO. ENGINEER 000133
ARCHITECT 000212
PRO. LAND SURVEYOR 000059

BRIAN KIERATH
PROFESSIONAL ENGINEER
PE-2023008624

SCALE
0 20 40 60

DISCLAIMER
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66

220410672, 220410562
13075-13101 MANCHESTER RD
N/F
13075 MANCHESTER RD LLC
DB 23090, PG 3497
SEE SHEET 69

MATCHLINE STA. 1441+00.00

EXIST. R/W

EXIST. MODOT DRAINAGE ESM'T

EXIST. R/W

EXIST. UTILITY ESM'T

EXIST. UTILITY & SEWER ESM'T

1445

PT STA 1445+76.78

MATCHLINE STA. 1446+00.00

MILL/OVERLAY

℄ ROUTE 100 WB

PROP_100_WB	
PI	1440+41.63
PC	1434+96.73
PT	1445+76.78
△	18°45'8.2" (LT)
D	1°44'10.4"
L	1,080.05' (ARC)
T	544.90'
R	3,300.00'

220430335
12920 PINGRY PL
N/F
CALVIN SAMANTHA F & JAMES E H/H
DB 20235, PG 4315
NO AQUISITION

EXIST. R/W

SHEET 49 OF 54

ROW SHEET LEGEND

- EXISTING RIGHT-OF-WAY (EXIST. ROW)
- PERMANENT EASEMENT (P.H.E.)
- TEMPORARY CONSTRUCTION EASEMENT (T.C.E.)
- CONSTRUCTION LIMITS (SL)
- PROPOSED EPOXY URETHANE POLYMER OVERLAY
- SIDEWALK REMOVAL
- PROPOSED SIDEWALK
- PROPOSED MILL/OVERLAY

RIGHT OF WAY SHEET

MO ROUTE 100
MANCHESTER ROAD

STATE OF MISSOURI
PROFESSIONAL ENGINEER
BRIAN D. KIERATH JR.
NUMBER PE-2023008624
04/01/2025 10:41:04 AM
Brian D. Kierath Jr. - Civil
MO PE-2023008624

DATE PREPARED 4/1/2025

ROUTE	STATE
100	MO
DISTRICT	SHEET NO.
SL	109

COUNTY ST. LOUIS
JOB NO. J6P3274
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)

GBA
16305 SWINGLEY RIDGE RD
ST. 300
CHESTERFIELD, MO 63017
314.231.0100
GBAteam.com

GEORGE BUTLER ASSOCIATES, INC.
PRO. ENGINEER 000133
ARCHITECT 000212
PRO. LAND SURVEYOR 000059

BRIAN KIERATH
PROFESSIONAL ENGINEER
PE-2023008624

24MSD-00037 ; BASEMAPS 22Q1, 22Q4, 22P2, 22P3, 22P4, 22Q3, 23Q1, 23Q2

c:\bms\gba-pw-01\brian kierath\dms05298\109_RW_49_J6P3274_120.dgn 9:33:50 AM 4/1/2025

SCALE
0 20 40 60

65
220410562
13133 MANCHESTER RD
N/F
KA DES PERES LLC
DB 20846, PG 493
SEE SHEET 70

66
220410672
13075 MANCHESTER RD
N/F
13075 MANCHESTER ROAD LLC
DB 23090, PG 3497
SEE SHEET 69

61
220410654
13205 MANCHESTER RD
N/F
13205 MANCHESTER LLC
DB 23718, PG 62
SEE SHEET 71

EXIST. UTILITY ESM'T

DRWY
STA. 1446+30.00 LT
NO IMPROVEMENTS

DRWY
STA. 1448+06.00 LT
NO IMPROVEMENTS

1450

MATCHLINE STA. 1446+00.00

MATCHLINE STA. 1451+00.00

EXIST. R/W

EXIST. R/W

90°

70°23'38"

MILL/OVERLAY

S77°45'54"W

℄ ROUTE 100 WB

EXIST. R/W

EXIST. R/W

EXIST. R/W

EXIST. R/W

220430335
12920 PINGRY PL
N/F
CALVIN SAMANTHA F & JAMES E H/H
DB 20235, PG 4315
NO AQUISITION

220430032
12921 PINGRY PL
N/F
CALVIN JAMES EDWARD & SAMANTHA FELKNER
DB 19563, PG 1292
NO AQUISITION

ROW SHEET LEGEND

- EXISTING RIGHT-OF-WAY (EXIST. ROW)
- PERMANENT EASEMENT (P.H.E.)
- TEMPORARY CONSTRUCTION EASEMENT (T.C.E.)
- CONSTRUCTION LIMITS (SL)
- PROPOSED EPOXY URETHANE POLYMER OVERLAY
- SIDEWALK REMOVAL
- PROPOSED SIDEWALK
- PROPOSED MILL/OVERLAY

SHEET 50 OF 54

RIGHT OF WAY SHEET

MO ROUTE 100
MANCHESTER ROAD

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STATE OF MISSOURI
BRIAN D. KIERATH JR.
NUMBER PE-2023008624
PROFESSIONAL ENGINEER

04/01/2025 10:41:04 AM
Brian D. Kierath Jr. - Civil
MO PE-2023008624

DATE PREPARED
4/1/2025

ROUTE	STATE
100	MO
DISTRICT	SHEET NO.
SL	110

COUNTY
ST. LOUIS

JOB NO.
J6P3274

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)

GBA
16305 SWINGLEY RIDGE RD
ST. 300
CHESTERFIELD, MO 63017
314.231.0100
GBAteam.com

GEORGE BUTLER
ASSOCIATES, INC.
PRO. ENGINEER 000133
ARCHITECT 000212
PRO. LAND SURVEYOR 000059

BRIAN KIERATH
PROFESSIONAL
ENGINEER
PE-2023008624

24MSD-00037 : BASEMAPS 2201, 2204, 22P2, 22P3, 22P4, 22Q3, 23Q1, 23Q2

c:\bms\gba-pw-01\brian kierath\dms05298\110_RW_50_J6P3274_120.dgn 9:34:04 AM 4/1/2025

SCALE

0 20 40 60

61

220410654
13205 MANCHESTER RD
N/F
13205 MANCHESTER LLC
DB 23718, PG 62
SEE SHEET 71

MATCHLINE STA. 1451+00.00

MATCHLINE STA. 1455+00.00

PC STA 1451+21.67

EXIST. R/W

EXIST. R/W

MILL/OVERLAY

℄ ROUTE 100 WB

PROP_100_WB	
PI	1457+15.82
PC	1451+21.67
PT	1462+22.51
Δ	53°27'7.7" (LT)
D	4°51'20.0"
L	1,100.84' (ARC)
T	594.15'
R	1,180.00'

EXIST. R/W

EXIST. R/W

EXIST. R/W

220430023
12943 PINGRY PL
N/F
BUTLER ROBERT
DB 24242, PG 2426
NO AQUISITION

ROW SHEET LEGEND

- EXISTING RIGHT-OF-WAY (EXIST. ROW)
- PERMANENT EASEMENT (P.H.E.)
- TEMPORARY CONSTRUCTION EASEMENT (T.C.E.)
- CONSTRUCTION LIMITS (SL)
- PROPOSED EPOXY URETHANE POLYMER OVERLAY
- SIDEWALK REMOVAL
- PROPOSED SIDEWALK
- PROPOSED MILL/OVERLAY

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04/01/2025 10:41:05 AM
Brian D. Kierath Jr. - Civil
MO PE-2023008624

DATE PREPARED
4/1/2025

ROUTE	STATE
100	MO
DISTRICT	SHEET NO.
SL	111

COUNTY
ST. LOUIS

JOB NO.
J6P3274

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
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GBA
16305 SWINGLEY RIDGE RD
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CHESTERFIELD, MO 63017
314.231.0100
GBAteam.com

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ASSOCIATES, INC.
PRO. ENGINEER 000133
ARCHITECT 000212
PRO. LAND SURVEYOR 000059

BRIAN KIERATH
PROFESSIONAL
ENGINEER
PE-2023008624

SHEET 51 OF 54

RIGHT OF WAY SHEET

MO ROUTE 100
MANCHESTER ROAD

SCALE
0 20 40 60

61
220410654
13205 MANCHESTER RD
N/F
13205 MANCHESTER LLC
DB 23718, PG 62
SEE SHEET 71

60
22P620452
13275 MANCHESTER RD
N/F
HORN LAKE PROPERTIES LLC
DB 22168, PG 5024
SEE SHEET 72

22P620571
13303 MANCHESTER RD
N/F
MONTGOMERY BAN
DB 25092, PG 449
NO AQUISITION

PL0901009
13421 MANCHESTER RD
N/F
DES PERES OFFICE PARK, LLC
DB 17684, PG 4443
NO ACQUISITION

PT STA 7+07.75
PC STA 6+19.03
PI STA. 1457+15.82
BEGIN STA. 1455+00.00
END STA. 1460+00.00
MATCHLINE STA. 1455+00.00
MATCHLINE STA. 1460+00.00

EXIST STL COUNTY COMMUNICATIONS, SEWERS & UTILITY ESM'T
EXIST STATE OF MISSOURI ESM'T
EXIST STL COUNTY COMMUNICATIONS, SEWERS & UTILITY ESM'T
EXIST INGRESS & EGRESS ESM'T
EXIST DETENTION ESM'T
EXIST CONST. & SLOPE ESM'T
EXIST STL COUNTY COMMUNICATIONS, SEWERS & UTILITY ESM'T
EXIST MSD ESM'T
EXIST DRAINAGE STRUCT. ESM'T
EXIST MSD ESM'T
EXIST MSD ESM'T
EXIST. R/W
EXIST. R/W
EXIST. R/W
EXIST. GAS ESM'T

S55°49'05"E 394.05'
POINTE DR
84°53'29"
76°31'12"
MILL/OVERLAY
℄ ROUTE 100 WB
STA. 5+00.00 POINTE DR. =
STA. 1458+9.82 ROUTE 100 WB

DRWY
STA. 1456+36.00 RT
NO IMPROVEMENTS

PROP_100_WB	
PI	1457+15.82
PC	1451+21.67
PT	1462+22.51
△	53°27'7.7" (LT)
D	4°51'20.0"
L	1,100.84' (ARC)
T	594.15'
R	1,180.00'

POINTE_DR	
PI	6+64.13
PC	6+19.03
PT	7+07.75
△	25°25'0.3" (RT)
D	28°38'52.2"
L	88.72' (ARC)
T	45.10'
R	200.00'

ROW SHEET LEGEND
- EXISTING RIGHT-OF-WAY (EXIST. ROW)
- PERMANENT EASEMENT (P.H.E.)
- TEMPORARY CONSTRUCTION EASEMENT (T.C.E.)
- CONSTRUCTION LIMITS (SL)
- PROPOSED EPOXY URETHANE POLYMER OVERLAY
- SIDEWALK REMOVAL
- PROPOSED SIDEWALK
- PROPOSED MILL/OVERLAY

SHEET 52 OF 54

RIGHT OF WAY SHEET

MO ROUTE 100
MANCHESTER ROAD

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NUMBER PE-2023008624
PROFESSIONAL ENGINEER
04/01/2025 10:41:05 AM
Brian D. Kierath Jr. - Civil
MO PE-2023008624

DATE PREPARED 4/1/2025
ROUTE 100 | STATE MO
DISTRICT SL | SHEET NO. 112
COUNTY ST. LOUIS
JOB NO. J6P3274
CONTRACT ID.
PROJECT NO.
BRIDGE NO.

DATE | DESCRIPTION

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

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
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GBA
16305 SWINGLEY RIDGE RD
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CHESTERFIELD, MO 63017
314.231.0100
GBAteam.com

GEORGE BUTLER ASSOCIATES, INC.
PRO. ENGINEER 000133
ARCHITECT 000212
PRO. LAND SURVEYOR 000059

BRIAN KIERATH
PROFESSIONAL ENGINEER
PE-2023008624

SCALE
0 20 40 60

EXIST. CROSS ACCESS ESM'T

EXIST DETENTION ESM'T

22P620571
13303 MANCHESTER RD
N/F
MONTGOMERY BANK
DB 25092, PG 449
NO AQUISITION

54

22P620591
13307 MANCHESTER RD
N/F
HORN LAKE PROPERTIES LLC
DB 14980, PG 1635
SEE SHEET 72

EXIST DRAINAGE STRUCT. ESM'T

EXIST. CONST. & SLOPE ESM'T

EXIST STL COUNTY COMMUNICATIONS, SEWERS & UTILITY ESM'T

EXIST CONST. & SLOPE ESM'T

EXIST STL COUNTY COMMUNICATIONS, SEWERS & UTILITY ESM'T

EXIST. R/W

EXIST. R/W

EXIST MSD ESM'T

EXIST MSD ESM'T

EXIST MSD ESM'T

PT STA 1462+22.51

MILL/OVERLAY

℄ ROUTE 100 WB

MATCHLINE STA. 1460+00.00

MATCHLINE STA. 1465+00.00

EXIST. R/W

EXIST. R/W

22P620342
13431 MANCHESTER RD
N/F
ERNEST PAUL WRIGHT TRUST ETAL
DB 18807, PG 1124
NO AQUISITION

22P620371
13008 PINGRY PL
N/F
CRUZ CHRISTOPHER T
DB 09533, PG 377
NO AQUISITION

ROW SHEET LEGEND

- EXISTING RIGHT-OF-WAY (EXIST. ROW)
- PERMANENT EASEMENT (P.H.E.)
- TEMPORARY CONSTRUCTION EASEMENT (T.C.E.)
- CONSTRUCTION LIMITS (SL)
- PROPOSED EPOXY URETHANE POLYMER OVERLAY
- SIDEWALK REMOVAL
- PROPOSED SIDEWALK
- PROPOSED MILL/OVERLAY

SHEET 53 OF 54

RIGHT OF WAY SHEET

MO ROUTE 100
MANCHESTER ROAD

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MO PE-2023008624

DATE PREPARED
4/1/2025

ROUTE	STATE
100	MO
DISTRICT	SHEET NO.
SL	113

COUNTY
ST. LOUIS

JOB NO.
J6P3274

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
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16305 SWINGLEY RIDGE RD
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GBAteam.com

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PRO. ENGINEER 000133
ARCHITECT 000212
PRO. LAND SURVEYOR 000059

BRIAN KIERATH
PROFESSIONAL ENGINEER
PE-2023008624

SCALE
0 20 40 60

54

22P620591
13307 MANCHESTER RD
N/F
HORN LAKE PROPERTIES LLC
DB 14980, PG 1635
SEE SHEET 72

L = 14.77'
S23°04'35"W
STA 1462+77.88
OFF 135.72' RT.
L = 24.05'
S43°51'11"E

STA 1462+89.99
OFF 128.45' RT.

EXIST STL COUNTY COMMUNICATIONS, SEWERS & UTILITY ESM'T

T.C.E.

R = 115.91'
L = 45.96'
STA 1462+80.44
OFF 159.61' RT.
STA 1462+98.62
OFF 173.16' RT.

STA 1462+54.74
OFF 169.66' RT.
L = 8.26'
S00°46'33"E
STA 1462+59.23
OFF 162.96' RT.
L = 47.60'
N56°58'24"E
L = 23.09'
S48°35'02"W

ROUTE 100 RAMP

EXIST. R/W

MILL/OVERLAY

℄ ROUTE 100 WB

S24°18'46"W

MATCHLINE STA. 1465+00.00

MATCHLINE STA. 1470+00.00
SEE PLAN SHEET 14 OF 54

EXIST. R/W

EXIST. R/W

22P620342
13431 MANCHESTER RD
N/F
ERNEST PAUL WRIGHT TRUST ETAL
DB 18807, PG 1124
NO AQUISITION

SHEET 54 OF 54

RIGHT OF WAY SHEET

MO ROUTE 100
MANCHESTER ROAD

ROW SHEET LEGEND

- EXISTING RIGHT-OF-WAY (EXIST. ROW)
- PERMANENT EASEMENT (P.H.E.)
- TEMPORARY CONSTRUCTION EASEMENT (T.C.E.)
- CONSTRUCTION LIMITS (SL)
- PROPOSED EPOXY URETHANE POLYMER OVERLAY
- SIDEWALK REMOVAL
- PROPOSED SIDEWALK
- PROPOSED MILL/OVERLAY

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PROFESSIONAL ENGINEER

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Brian D. Kierath Jr. - Civil
MO PE-2023008624

DATE PREPARED
4/1/2025

ROUTE	STATE
100	MO
DISTRICT	SHEET NO.
SL	114

COUNTY
ST. LOUIS

JOB NO.
J6P3274

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DATE	DESCRIPTION

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MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

105 WEST CAPITOL
JEFFERSON CITY, MO 65102
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CHESTERFIELD, MO 63017
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GBAteam.com

GEORGE BUTLER
ASSOCIATES, INC.
PRO. ENGINEER 000133
ARCHITECT 000212
PRO. LAND SURVEYOR 000059

BRIAN KIERATH
PROFESSIONAL
ENGINEER
PE-2023008624

ROUTE 100 IMPROVEMENTS - ROW IMPACTS					
PARCEL COUNT	PARCEL IDENTIFIER	PARCEL ADDRESS	OWNER NAME	PERM. HIGHWAY ESM'T (SF)	TEMP. CONSTRUCTION ESM'T (SF)
1	23Q530656	14290 MANCHESTER RD	RDJ L L C		848
2	23Q530711	14275 MANCHESTER RD	TKG-MANCHESTER HIGHLANDS SHOPPING CENTER, LLC	70	256
3	23Q530292	14270 MANCHESTER RD	WALMAR INVESTMENT CO	250	2332
4	23Q530436	151 GAYWOOD DR	MANCHESTER CITY OF	209	559
5	23Q530463	14268 MANCHESTER RD	H & H INVESTMENTS	77	1298
6	23Q530665	14248 MANCHESTER RD	SIGNS OF SNOWMASS LLC	294	537
7	23Q540877	14206 MANCHESTER RD	LLS HOLDINGS LLC	345	
8	23Q540345	14200 MANCHESTER RD	REGIONS BANK	1794	
9	23Q540538	14196 MANCHESTER RD	CHOI CHI WOONG & BONG HI H/W ETAL	27	101
10	23Q630114	1204 KNOLLHAVEN DR	ORCHARD VILLAGE KNOLLHAVEN LLC	VOID	
11	23Q630260	14177 MANCHESTER RD	LZB FURNITURE GALLERIES OF ST LOUIS INC		323
12	25Q630224	14128 MANCHESTER RD	TAYCO OLD ORCHARLD JUNIOR L C		422
13	23Q630242	14124 MANCHESTER RD	TAYCO OLD ORCHARLD JUNIOR L C	260	986
14	23Q630271	14120 MANCHESTER RD	TAYCO OLD ORCHARLD JUNIOR L C	1261	324
15	23Q640683	14116 MANCHESTER RD	14116 MANCHESTER ROAD LLC		3424
16	22Q320043	14100 MANCHESTER RD	ACE RE, LLC		283
17	23Q640171	14086 MANCHESTER RD	US 1100 CO	35	3837
18	22Q320162	14026 MANCHESTER RD	DELAWARE MCDONALD'S CORPORATION		148
19	22Q320171	14004 MANCHESTER RD	HALE REAL ESTATE GROUP LLC		289
20	22Q32005	13998 MANCHESTER RD	WILLIAMSBURG ENTERPRISES LLC A MISSOURI		200
21	22P110328	101 S WEIDMAN RD	MCKEE BARNET M REVOCABLE TRUST	116	465
22	22Q320209	14001 MANCHESTER RD	FIRST BANK		178
23	22P110290	13992 MANCHESTER RD	CS LOAN POOL V LLC	1378	
24	22P110281	13986 MANCHESTER RD	TMJ L L C	909	
25	22P140064	13861 MANCHESTER RD	INLAND WESTERN TOWN & COUNTRY MANCHESTER	105	365
26	22P120338	13956 MANCHESTER RD	LENETTE REALTY & INVESTMENT COMPANY	9164	1486

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BRIAN D. KIERATH JR.
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PROFESSIONAL ENGINEER
04/01/2025 10:41:06 AM
Brian D. Kierath Jr. - Civil
MO PE-2023008624

DATE PREPARED
4/1/2025

ROUTE	STATE
100	MO
DISTRICT	SHEET NO.
SL	115

COUNTY
ST. LOUIS

JOB NO.
J6P3274

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)

GBA
16305 SWINGLEY RIDGE RD
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CHESTERFIELD, MO 63017
314.231.0100
GBAteam.com

GEORGE BUTLER ASSOCIATES, INC.
PRO. ENGINEER 000133
ARCHITECT 000212
PRO. LAND SURVEYOR 000059

BRIAN KIERATH
PROFESSIONAL ENGINEER
PE-2023008624

SHEET 1 OF 4

RIGHT OF WAY IMPACTS TABLE

MO ROUTE 100
MANCHESTER ROAD

ROUTE 100 IMPROVEMENTS - ROW IMPACTS					
PARCEL COUNT	PARCEL IDENTIFIER	PARCEL ADDRESS	OWNER NAME	PERM. HIGHWAY ESM'T (SF)	TEMP. CONSTRUCTION ESM'T (SF)
27	22P120383	13920 MANCHESTER RD	DIETRICH MEADOWS LLC		301
28	22P120310	13898 MANCHESTER RD	J D STREETT & COMPANY INC	337	1891
29	22P120392	13894 MANCHESTER RD	WEST COUNTY CAR WASH INC	374	944
30	22P120163	13850 MANCHESTER RD	S H J LLC A MISSOURI LIMITED LIABILITY C	269	4085
31	22P210419	13720 MANCHESTER RD	K2M PROPERTIES LLC	464	1735
32	22P210400	13700 MANCHESTER BLVD	MANCHESTER CID I LLC	329	3506
33	22P210244	13721 MANCHESTER RD	13721 MANCHESTER LAND LLC	VOID	
34	22P210253	2185 S MASON RD	BALDRIDGE MASON LLC		52
35	22P220401	13645 MANCHESTER RD	CAPCO RECON LLC	3992	
36	22P220281	13662 MANCHESTER RD	DSJS NO 2 LLC		1247
37	22P220658	13652 MANCHESTER RD	DSJS #1 LLC	43	2129
38	22P220676	13650 MANCHESTER RD	RDI HOLDING COMPANY L L C	291	637
39	22P220685	13642 MANCHESTER RD	CALVERT GARY & LISA H/W	2787	315
40	22P220575	13620 MANCHESTER RD	DIVERSIFIED STORAGE FUNDII	1169	
41	22P240476	2173 BARRETT STATION RD	BARRETT STATION PROPERTY LLC		400
42	22P240467	2115 BARRETT STATION RD	ENVISION ST. LOUIS LLC	1101	1065
43	22P240302	2175 BARRETT STATION RD	AMERICAN EAGLE CREDIT UNION	1571	1249
44	22P220566	13616 MANCHESTER RD	GREATER ST LOUIS AUTOMOTIVE ASSOCIATION	835	1050
45	22P220584	13600 MANCHESTER RD	HOLLOWAY RONALD S TRUSTEE ETAL	1496	466
46	22P310610	2200 BARRETT STATION RD	ROLWES PROPERTIES LLC		818
47	22P310582	13537 BARRETT PARKWAY DR	TCG BARRETT WOODS HOLDINGS L L C		1833
48	22P330135	13589 MANCHESTER RD	AMEREN UE	3176	2184
49	22P330209	13565 MANCHESTER RD	WAL-MART PROPERTIES INC		464
50	22P330162	13455 MANCHESTER RD	WAL-MART PROPERTIES INC		3557

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4/1/2025

ROUTE	STATE
100	MO
DISTRICT	SHEET NO.
SL	116

COUNTY
ST. LOUIS

JOB NO.
J6P3274

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DESCRIPTION	DATE

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ARCHITECT 000212
PRO. LAND SURVEYOR 000059

BRIAN KIERATH
PROFESSIONAL ENGINEER
PE-2023008624

RIGHT OF WAY IMPACTS TABLE

MO ROUTE 100
MANCHESTER ROAD

ROUTE 100 IMPROVEMENTS - ROW IMPACTS

PARCEL COUNT	PARCEL IDENTIFIER	PARCEL ADDRESS	OWNER NAME	PERM. HIGHWAY ESM'T (SF)	TEMP. CONSTRUCTION ESM'T (SF)
51	22P340503	13380 MANCHESTER RD	D & D PARTNERSHIP L L C		2465
52	22P340594	13358 MANCHESTER RD	PRC INVESTMENTS L C	VOID	
53	22P340604	13354 MANCHESTER RD	IRONSTONE INVESTMENTS L L C	VOID	
54	22P620591	13307 MANCHESTER RD	HORN LAKE PROPERTIES L L C	1653	2534
55	22P340044	13350 MANCHESTER RD	MANCHESTER 13350 LLC		240
56	22P620131	13302 MANCHESTER RD	MANCHESTER PROPERTIES MGMT LLC		279
57	22P620140	13276 MANCHESTER RD	AVIACO PROPERTIES LLC		413
58	22O130109	13268 MANCHESTER RD	SPALITTO AND VEHIGE L L C		403
59	22O410681	13230 MANCHESTER RD	SOUTH COUNTY SENIOR CARE ASSOCIATES LLC	2127	527
60	22P620452	13275 MANCHESTER RD	HORN LAKE PROPERTIES L L C	655	4153
61	22O410654	13205 MANCHESTER RD	13205 MANCHESTER LLC		1350
63	22O410096	13200 MANCHESTER RD	13200 LLC		1252
64	22O410324	13100 MANCHESTER RD	OMVESCO LLC		1516
65	22O410663	13133 MANCHESTER RD	KA DES PERES LLC		765
66	22O410562, 22O410672	13101, 13075 MANCHESTER RD	13075 MANCHESTER ROAD LLC		1070
67	220420408	MEIER MANCHESTER LLC	13009 MANCHESTER RD	VOID	
68	220410591	LARRY & ALEKA KARAGIANNIS INVESTMENT LLC	13090 MANCHESTER RD	VOID	
69	22O420646	13030 MANCHESTER RD	HONG'S REAL ESTATES HOLDING LLC	749	582
70	22O420282	13000 MANCHESTER RD	N/F LEGACY ENTERPRISES LLC		528
71	22O420756	12990 MANCHESTER RD	DES PERES MEDICAL OFFICE BUILDING LLC		1658
72	22O420747	13001 MANCHESTER RD	RRG 28 LLC		1353
73	22O420701	12969 MANCHESTER RD	WHITE CO MANCHESTER 1 L L C		1714
74	22O420691	1011 DES PERES RD	FRANKLIN MANCHESTER ROAD LLC		3600

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STATE OF MISSOURI
BRIAN D. KIERATH JR.
NUMBER PE-2023008624
PROFESSIONAL ENGINEER
04/01/2025 10:41:07 AM
Brian D. Kierath Jr. - Civil
MO PE-2023008624

DATE PREPARED
4/1/2025

ROUTE	STATE
100	MO
DISTRICT	SHEET NO.
SL	117

COUNTY
ST. LOUIS

JOB NO.
J6P3274

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)

GBA
16305 SWINGLEY RIDGE RD
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CHESTERFIELD, MO 63017
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ASSOCIATES, INC.
PRO. ENGINEER 000133
ARCHITECT 000212
PRO. LAND SURVEYOR 000059

SHEET 3 OF 4

RIGHT OF WAY IMPACTS TABLE

MO ROUTE 100
MANCHESTER ROAD

BRIAN KIERATH
PROFESSIONAL
ENGINEER
PE-2023008624

ROUTE 100 IMPROVEMENTS - ROW IMPACTS

PARCEL COUNT	PARCEL IDENTIFIER	PARCEL ADDRESS	OWNER NAME	PERM. HIGHWAY ESM'T (SF)	TEMP. CONSTRUCTION ESM'T (SF)
75	22O420664	12878 MANCHESTER RD	BAH INVESTMENTS LLC	84	187
76	22O510305	12804 MANCHESTER RD	MANCHE REAL ESTATE PARTNERSHIP II, LP		253
77	220230621	1050 OLD DES PERES RD	DES PERES SQUARE PROFESSIONAL CONDOMINIUM		607
78	22O510314	12796 MANCHESTER RD	ROSALITAS CANTINA DES PERES HOLDINGS LLC		1164

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DISTRICT	SHEET NO.
SL	118

COUNTY
ST. LOUIS

JOB NO.
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MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
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PE-2023008624

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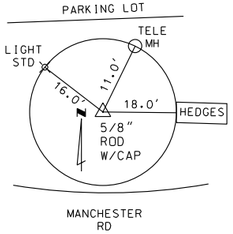
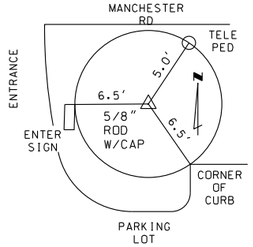
RIGHT OF WAY IMPACTS TABLE

MO ROUTE 100
MANCHESTER ROAD



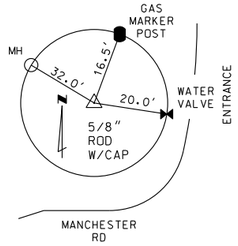
CONTROL TIE

CONTROL POINT #500
N 1004778.899
E 819579.560
ELEV 495.97
5/8" ROD W/CAP IN GRASS: APPROX 780 FEET EAST OF THE INTERSECTION OF MANCHESTER RD AND HIGHLAND BLVD ON THE NORTH SIDE OF MANCHESTER RD



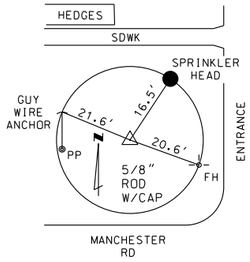
CONTROL TIE

CONTROL POINT #501
N 1005075.411
E 821102.736
ELEV 477.91
5/8" ROD W/CAP IN GRASS: APPROX 300 FEET WEST OF THE INTERSECTION OF MANCHESTER RD AND BRAESHIRE DR ON THE SOUTH SIDE OF MANCHESTER RD



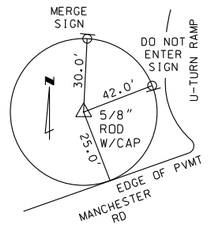
CONTROL TIE

CONTROL POINT #502
N 1006196.435
E 823968.283
ELEV 463.23
5/8" ROD W/CAP IN GRASS: APPROX 850 FEET EAST OF THE INTERSECTION OF MANCHESTER RD AND CONSORT DR ON THE NORTH SIDE OF MANCHESTER RD



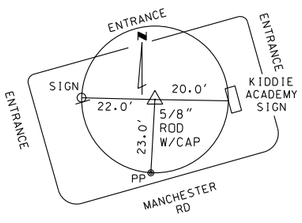
CONTROL TIE

CONTROL POINT #503
N 1006106.779
E 825497.911
ELEV 479.34
5/8" ROD W/CAP IN GRASS: APPROX 650 FEET WEST OF THE INTERSECTION OF MANCHESTER RD AND SOUTH MASON RD ON THE NORTH SIDE OF MANCHESTER RD



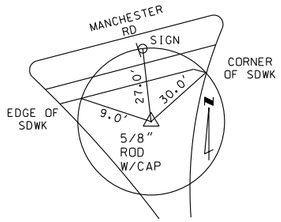
CONTROL TIE

CONTROL POINT #504
N 1007517.364
E 829574.794
ELEV 586.44
5/8" ROD W/CAP IN GRASS: APPROX 75 FEET SOUTHWEST OF THE INTERSECTION OF EASTBOUND MANCHESTER RD AND U-TURN RAMP FROM WESTBOUND MANCHESTER RD TO EASTBOUND MANCHESTER RD



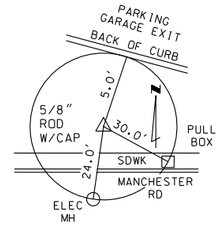
CONTROL TIE

CONTROL POINT #505
N 1008290.636
E 830846.846
ELEV 612.32
5/8" ROD W/CAP IN GRASS: APPROX 275 FEET WEST OF THE INTERSECTION OF EASTBOUND MANCHESTER RD AND TOPPING LN ON THE NORTH SIDE OF EASTBOUND MANCHESTER RD



CONTROL TIE

CONTROL POINT #506
N 1007942.419
E 833602.073
ELEV 651.28
5/8" ROD W/CAP IN GRASS: CENTER OF ISLAND AT THE INTERSECTION OF EASTBOUND MANCHESTER RD AND OLD DES PERES RD



CONTROL TIE

CONTROL POINT #507
N 1008770.104
E 835314.915
ELEV 667.75
5/8" ROD W/CAP IN GRASS: APPROX 900 FEET WEST OF THE INTERSECTION OF MANCHESTER RD AND NORTH BALLAS RD ON THE NORTH SIDE OF MANCHESTER RD

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REFERENCE POINT SHEET

MO ROUTE 100
MANCHESTER ROAD

STATE OF MISSOURI
BRIAN D. KIERATH JR.
NUMBER PE-2023008624
PROFESSIONAL ENGINEER
04/01/2025 10:41:07 AM
Brian D. Kierath Jr. - Civil
MO PE-2023008624

DATE PREPARED
4/1/2025

ROUTE	STATE
100	MO
DISTRICT	SHEET NO.
SL	119

COUNTY
ST. LOUIS

JOB NO.
J6P3274

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DATE	DESCRIPTION

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

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
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BRIAN KIERATH
PROFESSIONAL ENGINEER
PE-2023008624

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

PROJECT COORDINATE INFORMATION

COORDINATE SYSTEM	MODIFIED STATE PLANE (GROUND)
HORIZONTAL DATUM	NAD 83 (2011)
VERTICAL DATUM	NAVD 1988
GEOID MODEL	GEOID 12B
ELEVATIONS DETERMINED BY	
PROJECT PROJECTION FACTOR	1.0000878

REFERENCE CONTROL INFORMATION

COORDINATE SYSTEM	MISSOURI COORD. SYSTEM OF 1983
CONTROL STATION	
DESIGNATION	SEILER TREECOURT CORS ARP
CORS_ID	MOSI
PID	DL3650
LATITUDE	38°33'44.23066"
LONGITUDE	90°27'40.90251"
NORTHING (M)	302843.569
EASTING (M)	253367.387
ZONE	2401 (MO-EAST)
PROJECT AVERAGE GRID FACTOR	0.9999122

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 1005248.482 X 0.9999122 = N 1005160.229
E 827172.361 X 0.9999122 = E 827099.742

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								
	1571+48.86	ROUTE 100	64.87 RT	1004778.8988	819579.5598	495.974	SET 5/8" I.B. W/ 2" ALUMINUM CAP	
	1555+82.55	ROUTE 100	65.13 LT	1005075.4109	821102.7355	477.907	SET 5/8" I.B. W/ 2" ALUMINUM CAP	
	1525+17.58	ROUTE 100	75.21 RT	1006196.4353	823968.2831	463.233	SET 5/8" I.B. W/ 2" ALUMINUM CAP	
	1510+00.99	ROUTE 100	72.95 RT	1006106.7794	825497.9114	479.340	SET 5/8" I.B. W/ 2" ALUMINUM CAP	
	1463+40.35	ROUTE 100	50.04 RT	1007517.3643	829574.7943	586.442	SET 5/8" I.B. W/ 2" ALUMINUM CAP	
	1448+60.15	ROUTE 100	54.87 RT	1008290.6361	830846.8459	612.324	SET 5/8" I.B. W/ 2" ALUMINUM CAP	
	1420+70.40	ROUTE 100	73.49 LT	1007942.4186	833602.0728	651.280	SET 5/8" I.B. W/ 2" ALUMINUM CAP	
	1401+86.69	ROUTE 100	74.87 RT	1008770.1042	835314.9152	667.747	SET 5/8" I.B. W/ 2" ALUMINUM CAP	
ALIGNMENTS								
SEE SHEET	NO 120- 131							

BRIAN D. KIERATH JR. NUMBER PE-2023008624
PROFESSIONAL ENGINEER
STATE OF MISSOURI
04/01/2025 10:41:07 AM
Brian D. Kierath Jr. - Civil
MO PE-2023008624

DATE PREPARED: 4/1/2025
ROUTE: 100 | STATE: MO
DISTRICT: SL | SHEET NO.: 120
COUNTY: ST. LOUIS
JOB NO.: J6P3274
CONTRACT ID.:
PROJECT NO.:
BRIDGE NO.:

DESCRIPTION | DATE

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

MO ROUTE 100
MANCHESTER ROAD

BRIAN KIERATH
PROFESSIONAL
ENGINEER
PE-2023008624

REV.

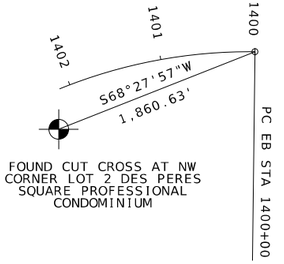
SCALE
0 100 200 300

2b 1b

PROP_100	
PI	1402+23.40
PC	1400+00.00
PT	1404+40.81
△	22°57'37.4" (LT)
D	5°12'31.3"
L	440.81' (ARC)
T	223.40'
R	1,100.00'

LAND TIE #1

LAND CORNER TIE:
FOUND CUT CROSS AT THE NORTHWESTERN CORNER OF
LOT 2 OF DES PERES CONDOMINIUM PROFESSIONAL CENTER
PB 351 PG 84
1,860.60 FEET SOUTHWEST OF BASELINE STATION 1400+00
PROJECT COORDINATES
N:1008026.775 E:833781.879



7b

PROP_100	
PI	1424+55.33
PC	1420+68.71
PT	1428+06.55
△	42°16'30.3" (RT)
D	5°43'46.4"
L	737.84' (ARC)
T	386.62'
R	1,000.00'

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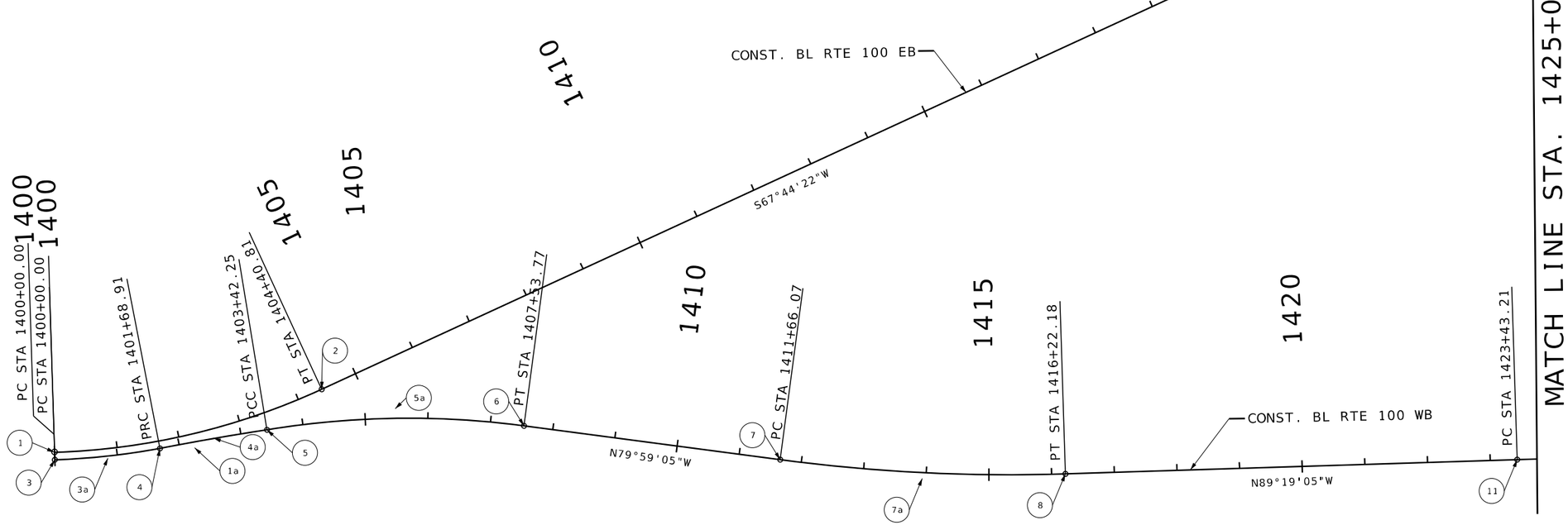

PROP_100_WB	
PI	1440+41.63
PC	1434+96.73
PT	1445+76.78
△	18°45'8.2" (LT)
D	1°44'10.4"
L	1,080.05' (ARC)
T	544.90'
R	3,300.00'

PROP_100_WB	
PI	1400+84.62
PC	1400+00.00
PT	1401+68.91
△	8°42'11.9" (LT)
D	5°9'9.0"
L	168.91' (ARC)
T	84.62'
R	1,112.00'

PROP_100_WB	
PI	1402+55.59
PC	1401+68.91
PT	1403+42.25
△	2°21'42.0" (RT)
D	1°21'44.9"
L	173.33' (ARC)
T	86.68'
R	4,205.24'

5b

PROP_100_WB	
PI	1405+49.51
PC	1403+42.25
PT	1407+53.77
△	16°50'30.8" (RT)
D	4°5'33.2"
L	411.52' (ARC)
T	207.26'
R	1,400.00'

4b

PROP_100_WB	
PI	1413+94.63
PC	1411+66.07
PT	1416+22.18
△	9°20'0.0" (LT)
D	2°2'46.6"
L	456.11' (ARC)
T	228.56'
R	2,800.00'

SHEET 2 OF 13

COORDINATE POINTS SHEET

MO ROUTE 100
MANCHESTER ROAD

BRIAN KIERATH
PROFESSIONAL
ENGINEER
PE-2023008624

STATE OF MISSOURI
BRIAN D. KIERATH JR.
NUMBER PE-2023008624
PROFESSIONAL ENGINEER
04/01/2025 10:41:08 AM
Brian D. Kierath Jr. - Civil
MO PE-2023008624

DATE PREPARED 4/1/2025
ROUTE 100 | STATE MO
DISTRICT SL | SHEET NO. 121
COUNTY ST. LOUIS
JOB NO. J6P3274
CONTRACT ID.
PROJECT NO.
BRIDGE NO.

DESCRIPTION	DATE

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COORDINATE POINTS

STATION	LOCATION	OFFSET (FEET)	NORTHING (FEET)	EASTING (FEET)	DESCRIPTION	DESIGN PT. ID
1400+00.00	RTE 100 EB	CL	1008709.699	835512.628	PC	1
1402+23.40	RTE 100 EB	22.46' RT.	1008712.427	835289.243	PI	1a
1404+40.81	RTE 100 EB	1100' LT.	1007609.781	835499.195	CC OF CURVE	1b
1404+40.81	RTE 100 EB	CL	1008627.798	835082.492	PT	2
1400+00.00	RTE 100 WB	CL	1008721.689	835512.775	PC	3
1400+84.62	RTE 100 WB	3.22' RT.	1008722.732	835428.161	PI	3a
1401+68.91	RTE 100 WB	1112' LT.	1007609.781	835499.195	CC OF CURVE	3b
1401+68.91	RTE 100 WB	CL	1008710.950	835344.365	PRC	4
1402+55.59	RTE 100 WB	0.89' LT.	1008698.040	835258.653	PI	4a
1403+42.25	RTE 100 WB	4205.24' RT.	1008688.673	835172.481	CC OF CURVE	4b
1403+42.25	RTE 100 WB	CL	1008688.673	835172.481	PCC	5
1405+49.51	RTE 100 WB	15.26' LT.	1008664.037	834966.693	PI	5a
1407+53.77	RTE 100 WB	1400' RT.	1010078.747	835006.072	CC OF CURVE	5b
1407+53.77	RTE 100 WB	CL	1008700.082	834762.595	PT	6
1411+66.07	RTE 100 WB	CL	1008771.784	834356.586	PC	7
1413+94.63	RTE 100 WB	9.31' RT.	1008811.534	834131.507	PI	7a
1416+22.18	RTE 100 WB	2800' LT.	1006014.453	833869.632	CC OF CURVE	7b
1416+22.18	RTE 100 WB	CL	1008814.255	833902.961	PT	8
1420+68.71	RTE 100 EB	CL	1008011.115	833575.920	PC	9
1424+55.33	RTE 100 EB	72.14' LT.	1007864.655	833218.114	PI	9a
1428+06.55	RTE 100 EB	1000' RT.	1008936.585	833197.099	CC OF CURVE	9b
1423+43.21	RTE 100 WB	CL	1008822.837	833181.977	PC	10

STATE OF MISSOURI
BRIAN D. KIERATH JR.
NUMBER PE-2023008624
PROFESSIONAL ENGINEER
04/01/2025 10:41:08 AM
Brian D. Kierath Jr. - Civil
MO PE-2023008624

DATE PREPARED
4/1/2025

ROUTE	STATE
100	MO
DISTRICT	SHEET NO.
SL	122

COUNTY
ST. LOUIS

JOB NO.
J6P3274

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)

GBA
16305 SWINGLEY RIDGE RD
ST. 300
CHESTERFIELD, MO 63017
314.231.0100
GBAteam.com

GEORGE BUTLER
ASSOCIATES, INC.
PRO. ENGINEER 000133
ARCHITECT 000212
PRO. LAND SURVEYOR 000059

SHEET 3 OF 13

COORDINATE POINTS SHEET

MO ROUTE 100
MANCHESTER ROAD

BRIAN KIERATH
PROFESSIONAL
ENGINEER
PE-2023008624

SCALE

0 100 200 300

PROP_100	
PI	1436+11.62
PC	1433+53.39
PT	1438+67.87
△	12°16'55.8" (LT)
D	2°23'14.3"
L	514.47' (ARC)
T	258.23'
R	2,400.00'

PROP_100_WB	
PI	1440+41.63
PC	1434+96.73
PT	1445+76.78
△	18°45'8.2" (LT)
D	1°44'10.4"
L	1,080.05' (ARC)
T	544.90'
R	3,300.00'

PROP_100_WB	
PI	1443+58.33
PC	1439+30.31
PT	1447+74.79
△	23°2'25.6" (LT)
D	2°43'42.1"
L	844.48' (ARC)
T	428.02'
R	2,100.00'

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MATCH LINE STA. 1425+00.00

PT STA 1428+06.55

N69°59'08"W

PC STA 1433+53.39

PT STA 1438+67.87

PC STA 1439+30.31

N82°16'04"W

STA. 14+45.96 WESTMARK DR. =
STA. 1441+46.18 RTE 100 EB
CONST. BL RTE 100 EB

PT STA 1447+74.79

S74°41'30"W

MATCH LINE STA. 1450+00.00

BL WESTMARK DR.

PT STA 1429+03.36

N83°28'58"W

PC STA 1434+96.73

PT STA 6+13.99

S07°30'23"W

PT STA 9+76.73

S89°58'53"W

PC STA 9+06.29

S00°17'58"W

PT STA 1445+76.78

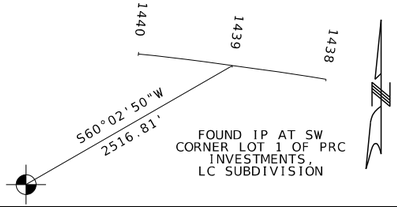
CONST. BL RTE 100 WB

S77°45'54"W

STA. 5+00.00 WESTMARK DR. =
STA. 1435+70.36 RTE 100 WB

LAND TIE #2:

LAND CORNER TIE:
FOUND IRON PIPE WITH CAP JAMES LS 129D AT SOUTHEASTERN CORNER OF LOT 1 OF PRC INVESTMENTS, LC SUBDIVISION
PB 351 PG 111
2,516.81 FEET SOUTHWEST OF BASELINE STATION 1439+00
PROJECT COORDINATES
N:1007054.971 E:829630.060



BL_WESTMARK_DR	
PI	5+85.85
PC	5+42.02
PT	6+13.99
△	82°28'29.9" (RT)
D	114°35'28.8"
L	71.97' (ARC)
T	43.83'
R	50.00'

BL_WESTMARK_DR	
PI	9+51.05
PC	9+06.29
PT	9+76.73
△	89°40'54.9" (LT)
D	127°19'25.3"
L	70.44' (ARC)
T	44.75'
R	45.00'

SHEET 4 OF 13

COORDINATE POINTS SHEET

MO ROUTE 100
MANCHESTER ROAD

BRIAN KIERATH
PROFESSIONAL
ENGINEER
PE-2023008624

STATE OF MISSOURI
BRIAN D. KIERATH JR.
NUMBER PE-2023008624
PROFESSIONAL ENGINEER
04/01/2025 10:41:08 AM
Brian D. Kierath Jr. - Civil
MO PE-2023008624

DATE PREPARED
4/1/2025

ROUTE	STATE
100	MO
DISTRICT	SHEET NO.
SL	123

COUNTY
ST. LOUIS

JOB NO.
J6P3274

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)

GBA
16305 SWINGLEY RIDGE RD
ST. 300
CHESTERFIELD, MO 63017
314.231.0100
GBAteam.com

GEORGE BUTLER
ASSOCIATES, INC.
PRO. ENGINEER 000133
ARCHITECT 000212
PRO. LAND SURVEYOR 000059

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

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COORDINATE POINTS

STATION	LOCATION	OFFSET (FEET)	NORTHING (FEET)	EASTING (FEET)	DESCRIPTION	DESIGN PT. ID
1428+06.55	RTE 100 EB	CL	1007996.978	831659.080	PT	10
1426+23.53	RTE 100 WB	7.14' LT.	1008826.174	832901.682	PI	11a
1429+03.36	RTE 100 WB	5500' RT.	1014322.448	833247.446	CC	11b
1429+03.36	RTE 100 WB	CL	1008857.991	832623.178	PT	12
1433+53.39	RTE 100 EB	CL	1008184.140	832341.023	PC	13
1436+11.62	RTE 100 EB	13.85' RT.	1008272.519	832098.391	PI	13a
1438+67.87	RTE 100 EB	2400' LT.	1005929.084	831519.607	CC	13b
1438+67.87	RTE 100 EB	CL	1008307.262	831842.512	PT	14
1440+41.63	RTE 100 WB	44.68' RT.	1008987.188	831492.263	PI	14a
1445+76.78	RTE 100 WB	3300' LT.	1005646.666	831659.080	CC	14b
1434+96.73	RTE 100 WB	CL	1008925.340	832033.641	PC	15
5+42.02	Westmark Dr.	CL	1008891.221	831954.909	PC	16
1445+76.78	RTE 100 WB	CL	1008871.713	830959.741	PT	16
5+00.00	Westmark Dr.	CL	1008932.881	831960.398	POT	17
5+85.85	Westmark Dr.	16.49' LT.	1008847.768	831949.183	PI	18a
6+13.99	Westmark Dr.	50.00' RT.	1008847.753	831905.353	CC	18b
6+13.99	Westmark Dr.	CL	1008847.753	831905.337	PT	19
9+06.29	Westmark Dr.	CL	1008847.658	831905.353	PC	20
9+51.05	Westmark Dr.	18.46' RT.	1008847.644	831568.301	PI	20a
9+76.73	Westmark Dr.	45.00' LT.	1008802.658	831613.066	CC	20b
9+76.73	Westmark Dr.	CL	1008802.893	831568.067	PT	21
14+45.96	Westmark Dr.	CL	1008333.672	831565.615	POT	22
1439+30.31	RTE 100 EB	CL	1008315.664	831780.634	PC	23
1443+58.33	RTE 100 EB	43.18' RT.	1008373.252	831356.503	PI	23a
1447+74.79	RTE 100 EB	2100' LT.	1006234.758	831498.092	CC	23b
1447+74.79	RTE 100 EB	CL	1008260.249	830943.668	PT	24

STATE OF MISSOURI
BRIAN D. KIERATH JR.
NUMBER PE-2023008624
PROFESSIONAL ENGINEER
04/01/2025 10:41:09 AM
Brian D. Kierath Jr. - Civil
MO PE-2023008624

DATE PREPARED
4/1/2025

ROUTE	STATE
100	MO
DISTRICT	SHEET NO.
SL	124

COUNTY
ST. LOUIS

JOB NO.
J6P3274

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)

GBA
16305 SWINGLEY RIDGE RD
ST. 300
CHESTERFIELD, MO 63017
314.231.0100
GBAteam.com

GEORGE BUTLER
ASSOCIATES, INC.
PRO. ENGINEER 000133
ARCHITECT 000212
PRO. LAND SURVEYOR 000059

COORDINATE POINTS SHEET

MO ROUTE 100
MANCHESTER ROAD

BRIAN KIERATH
PROFESSIONAL
ENGINEER
PE-2023008624

SCALE

0 100 200 300

PROP_100	
PI	1452+06.85
PC	1450+26.22
PT	1453+83.63
△	20°28'41.3" (LT)
D	5°43'46.4"
L	357.41' (ARC)
T	180.63'
R	1,000.00'

PROP_100_WB	
PI	1457+15.82
PC	1451+21.67
PT	1462+22.51
△	53°27'7.7" (LT)
D	4°51'20.0"
L	1,100.84' (ARC)
T	594.15'
R	1,180.00'

PROP_100	
PI	1466+22.63
PC	1462+23.03
PT	1470+12.79
△	21°32'50.8" (LT)
D	2°43'42.1"
L	789.75' (ARC)
T	399.60'
R	2,100.00'

BL_POINTE_DR	
PI	6+64.13
PC	6+19.03
PT	7+07.75
△	25°25'0.3" (RT)
D	28°38'52.2"
L	88.72' (ARC)
T	45.10'
R	200.00'

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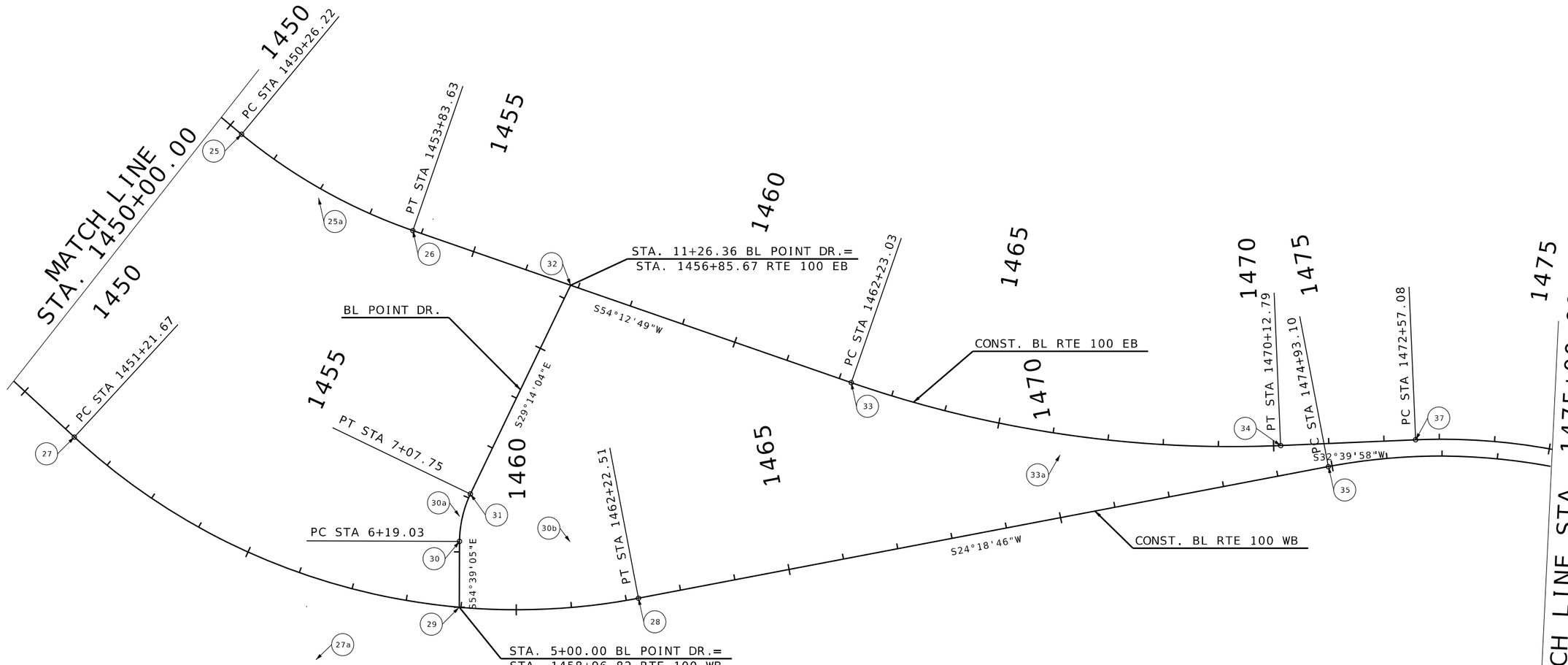

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

STATE OF MISSOURI
BRIAN D. KIERATH JR.
NUMBER PE-2023008624
PROFESSIONAL ENGINEER
04/01/2025 10:41:09 AM
Brian D. Kierath Jr. - Civil
MO PE-2023008624

DATE PREPARED 4/1/2025
ROUTE 100 | STATE MO
DISTRICT SL | SHEET NO. 125
COUNTY ST. LOUIS
JOB NO. J6P3274
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)

GBA
16305 SWINGLEY RIDGE RD
ST. 300
CHESTERFIELD, MO 63017
314.231.0100
GBAteam.com

GEORGE BUTLER ASSOCIATES, INC.
PRO. ENGINEER 000133
ARCHITECT 000212
PRO. LAND SURVEYOR 000059

BRIAN KIERATH
PROFESSIONAL ENGINEER
PE-2023008624

SHEET 6 OF 13

COORDINATE POINTS SHEET

MO ROUTE 100
MANCHESTER ROAD

DISCLAIMER
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COORDINATE POINTS

STATION	LOCATION	OFFSET (FEET)	NORTHING (FEET)	EASTING (FEET)	DESCRIPTION	DESIGN PT. ID
1450+26.22	RTE 100 EB	CL	1008193.870	830701.163	PC	25
1452+06.85	RTE 100 EB	16.18' RT.	1008146.181	830526.939	PI	25a
1453+83.63	RTE 100 EB	1000' LT.	1007229.350	830965.174	CC	25b
1453+83.63	RTE 100 EB	CL	1008040.553	830380.410	PT	26
1451+21.67	RTE 100 WB	CL	1008756.240	830427.230	PC	27
1457+15.82	RTE 100 WB	141.14' RT.	1008630.326	829846.574	PI	27a
1462+22.51	RTE 100 WB	1180' LT.	1007603.041	830677.297	CC	27b
1462+22.51	RTE 100 WB	CL	1008088.870	829601.951	PT	28
5+00.00	BL PROP 13	CL	1008363.531	829775.047	POT	29
6+19.03	BL PROP 13	CL	1008294.665	829872.135	PC	30
6+64.14	BL PROP 13	5.02' LT.	1008268.571	829908.923	PI	30a
7+07.75	BL PROP 13	200.00' RT.	1008131.536	829756.425	CC	30b
7+07.75	BL PROP 13	CL	1008229.213	829930.951	PT	31
11+26.36	BL PROP 13	CL	1007863.929	830135.390	POT	32
1462+23.03	RTE 100 EB	CL	1007549.699	829699.482	PC	33
1466+22.63	RTE 100 EB	37.68' RT.	1007316.028	829375.326	PI	33a
1470+12.79	RTE 100 EB	2100' LT.	1005846.173	830927.487	CC	33b
1470+12.79	RTE 100 EB	CL	1006979.635	829159.646	PT	34
1474+93.10	RTE 100 WB	CL	1006930.968	829078.824	PC	35
1472+57.08	RTE 100 EB	CL	1006773.984	829027.791	PC	37

STATE OF MISSOURI
BRIAN D. KIERATH JR.
NUMBER PE-2023008624
PROFESSIONAL ENGINEER
04/01/2025 10:41:09 AM
Brian D. Kierath Jr. - Civil
MO PE-2023008624

DATE PREPARED
4/1/2025

ROUTE	STATE
100	MO
DISTRICT	SHEET NO.
SL	126

COUNTY
ST. LOUIS

JOB NO.
J6P3274

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)

GBA
16305 SWINGLEY RIDGE RD
ST. 300
CHESTERFIELD, MO 63017
314.231.0100
GBAteam.com

GEORGE BUTLER
ASSOCIATES, INC.
PRO. ENGINEER 000133
ARCHITECT 000212
PRO. LAND SURVEYOR 000059

SHEET 7 OF 13

COORDINATE POINT SHEET

MO ROUTE 100
MANCHESTER ROAD

BRIAN KIERATH
PROFESSIONAL
ENGINEER
PE-2023008624

SCALE

0 100 200 300

PROP_100	
PI	1480+69.40
PC	1474+93.10
PT	1485+51.87
△	56°10'9.6" (RT)
D	5°18'18.6"
L	1,058.77' (ARC)
T	576.29'
R	1,080.00'

PROP_100_WB	
PI	1477+44.71
PC	1472+57.08
PT	1481+75.08
△	47°48'57.7" (RT)
D	5°12'31.3"
L	918.00' (ARC)
T	487.64'
R	1,100.00'

BL_CENTEROYAL	
PI	5+94.92
PC	5+56.24
PT	6+24.96
△	65°37'33.9" (LT)
D	95°29'34.0"
L	68.72' (ARC)
T	38.69'
R	60.00'

BL_N_BARRET_PKWY	
PI	2+79.24
PC	1+09.97
PT	3+86.51
△	83°23'35.4" (RT)
D	30°9'20.2"
L	276.54' (ARC)
T	169.26'
R	190.00'

BL_BARRETT_STATION	
PI	3+75.37
PC	3+35.25
PT	4+15.01
△	15°14'2.5" (LT)
D	19°5'54.8"
L	79.77' (ARC)
T	40.12'
R	300.00'

BL_BARRETT_PKWY	
PI	9+70.89
PC	7+79.88
PT	10+73.31
△	93°24'7.7" (LT)
D	31°49'51.3"
L	293.43' (ARC)
T	191.02'
R	180.00'

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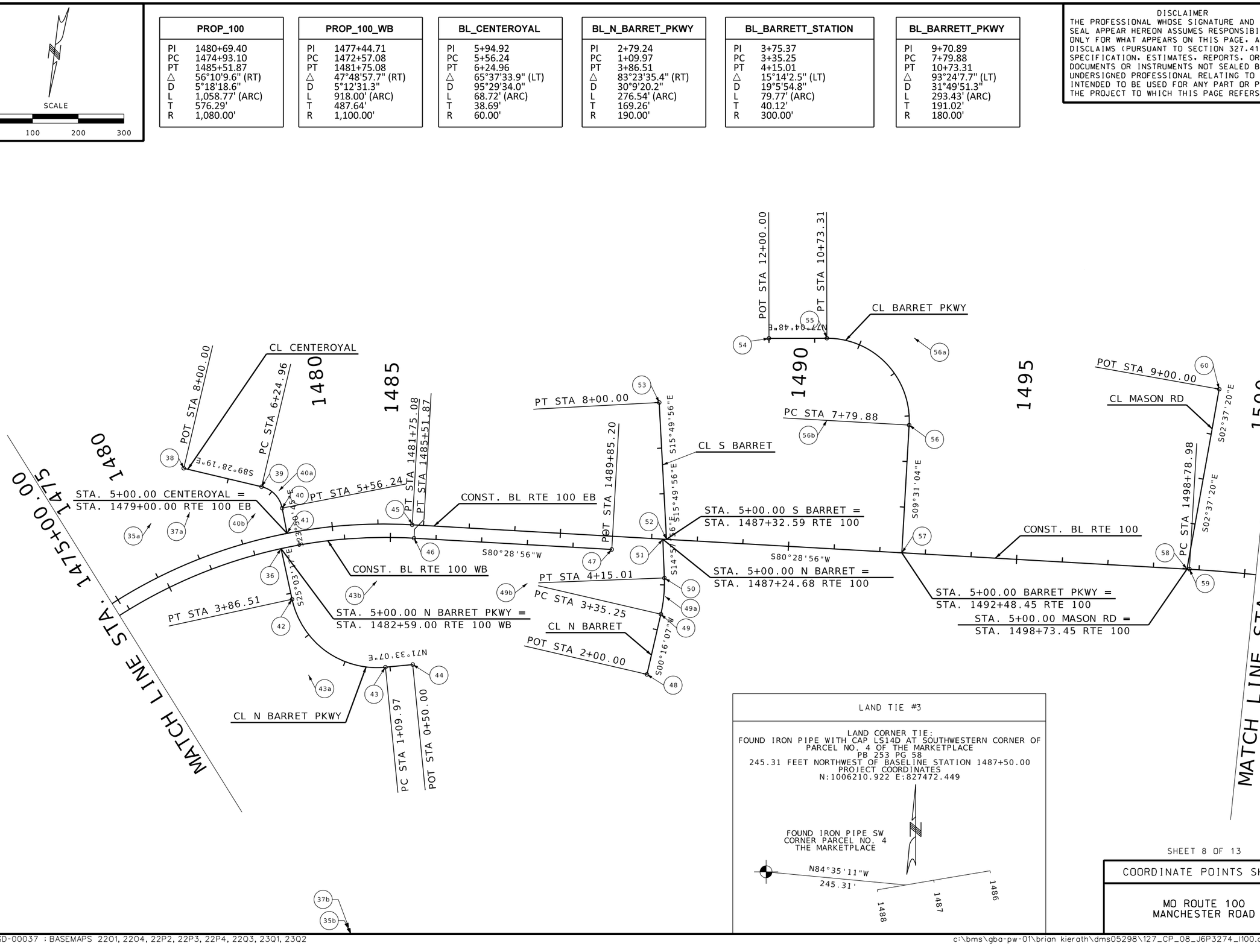

LAND TIE #3

LAND CORNER TIE:
FOUND IRON PIPE WITH CAP LS14D AT SOUTHWESTERN CORNER OF PARCEL NO. 4 OF THE MARKETPLACE
PB 253 PG 58
245.31 FEET NORTHWEST OF BASELINE STATION 1487+50.00
PROJECT COORDINATES
N:1006210.922 E:827472.449

SHEET 8 OF 13

COORDINATE POINTS SHEET

MO ROUTE 100
MANCHESTER ROAD

STATE OF MISSOURI
BRIAN D. KIERATH JR.
NUMBER PE-2023008624
PROFESSIONAL ENGINEER
04/01/2025 10:41:10 AM
Brian D. Kierath Jr. - Civil
MO PE-2023008624

DATE PREPARED 4/1/2025
ROUTE 100 | STATE MO
DISTRICT SL | SHEET NO. 127
COUNTY ST. LOUIS
JOB NO. J6P3274
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)

GBA
16305 SWINGLEY RIDGE RD
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CHESTERFIELD, MO 63017
314.231.0100
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GEORGE BUTLER
ASSOCIATES, INC.
PRO. ENGINEER 000133
ARCHITECT 000212
PRO. LAND SURVEYOR 000059

BRIAN KIERATH
PROFESSIONAL
ENGINEER
PE-2023008624

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COORDINATE POINTS

STATION	LOCATION	OFFSET (FEET)	NORTHING (FEET)	EASTING (FEET)	DESCRIPTION	DESIGN PT. ID
1480+69.40	RTE 100 WB	144.14' LT.	1006405.784	828841.552	PI	35a
1485+51.87	RTE 100 WB	1080' RT.	1007375.625	828094.608	CC	35b
5+00.00	N Barret Pkwy	CL	1006397.250	828551.973	POT	36
1477+44.71	RTE 100 EB	103.24' LT.	1006363.477	828764.592	PI	37a
1481+75.08	RTE 100 EB	1100' RT.	1006282.844	828101.780	CC	37b
8+00.00	Centeroyal Dr.	CL	1006272.810	828798.576	POT	38
6+24.96	Centeroyal Dr.	CL	1006274.424	828623.544	PT	39
5+56.24	Centeroyal Dr.	CL	1006310.165	828569.219	PC	40
5+94.92	Centeroyal Dr.	11.39' RT.	1006274.780	828584.859	PI	40a
6+24.96	Centeroyal Dr.	60.00' LT.	1006334.421	828624.097	CC	40b
5+00.00	Centeroyal Dr.	CL	1006361.602	828546.484	POT	41
3+86.51	N Barret Pkwy	CL	1006500.057	828503.913	PT	42
1+09.97	N Barret Pkwy	CL	1006599.831	828271.667	PC	43
2+79.24	N Barret Pkwy	64.46' LT.	1006653.394	828432.233	PI	43a
3+86.51	N Barret Pkwy	190.00' RT.	1006419.595	828331.792	CC	43b
00+50.00	N Barret Pkwy	CL	1006580.853	828214.777	POT	44
1481+75.08	RTE 100 EB	CL	1006282.844	828283.668	PT	45
1485+51.87	RTE 100 WB	CL	1006310.492	828273.190	PT	46
1489+85.20	RTE 100 WB	CL	1006238.839	827845.819	POT	47
2+00.00	Barret Station N	CL	1006488.475	827710.102	POT	48
3+35.25	Barret Station N	CL	1006353.277	827709.468	PC	49
3+75.37	Barret Station N	2.67' RT.	1006313.108	827709.280	PI	49a
4+15.01	Barret Station N	300.00' LT.	1006351.821	828009.465	CC	49b
4+15.01	Barret Station N	CL	1006274.350	827719.640	PT	50
4+99.99	Barret Station N	CL	1006192.247	827741.586	POT	51
5+00.00	S Barret Station	CL	1006190.659	827733.835	POT	52
8+00.00	S Barret Station	CL	1005902.039	827815.682	POT	53
12+00.00	Barret Pkwy Dr	CL	1005711.982	827612.602	POT	54
10+73.31	Barret Pkwy Dr	CL	1005683.655	827489.117	PT	55
7+79.88	Barret Pkwy Dr	CL	1005829.335	827271.349	PC	56
9+70.89	Barret Pkwy Dr	82.47' RT.	1005640.946	827302.934	PI	56a
10+73.31	Barret Pkwy Dr	180.00' LT.	1005859.098	827448.871	CC	56b
5+00.00	Barret Pkwy Dr	CL	1006105.359	827225.070	POT	57
5+00.00	Mason Rd	CL	1006002.013	826608.676	POT	58
1498+78.98	RTE 100	CL	1006001.099	826603.220	PC	59
9+00.00	Mason Rd	CL	1005602.432	826626.978	POT	60

STATE OF MISSOURI
BRIAN D. KIERATH JR.
NUMBER PE-2023008624
PROFESSIONAL ENGINEER
04/02/2025 8:52:25 AM
Brian D. Kierath Jr. - Civil
MO PE-2023008624

DATE PREPARED
4/2/2025

ROUTE	STATE
100	MO
DISTRICT	SHEET NO.
SL	128

COUNTY
ST. LOUIS

JOB NO.
J6P3274

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)

GBA
16305 SWINGLEY RIDGE RD
ST. 300
CHESTERFIELD, MO 63017
314.231.0100
GBAteam.com

GEORGE BUTLER ASSOCIATES, INC.
PRO. ENGINEER 000133
ARCHITECT 000212
PRO. LAND SURVEYOR 000059

SHEET 9 OF 13

COORDINATE POINTS SHEET

MO ROUTE 100
MANCHESTER ROAD

BRIAN KIERATH
PROFESSIONAL ENGINEER
PE-2023008624

SCALE

0 100 200 300

CURVE RTE100_8	
PI	1502+90.69
PC	1498+78.98
PT	1506+95.86
△	17°39'42.2" (RT)
D	2°9'43.6"
L	816.88' (ARC)
T	411.70'
R	2,650.00'

CURVE S_MANCHESTER_1	
PI	6+98.15
PC	6+17.08
PT	7+71.82
△	42°13'9.5" (LT)
D	27°17'1.1"
L	154.74' (ARC)
T	81.07'
R	210.00'

CURVE N_MANCHESTER_1	
PI	3+80.78
PC	3+22.93
PT	4+35.56
△	32°15'57.9" (RT)
D	28°38'52.2"
L	112.63' (ARC)
T	57.85'
R	200.00'

CURVE RTE100_9	
PI	1523+21.51
PC	1517+35.68
PT	1528+84.87
△	27°26'5.5" (LT)
D	2°23'14.3"
L	1,149.19' (ARC)
T	585.83'
R	2,400.00'

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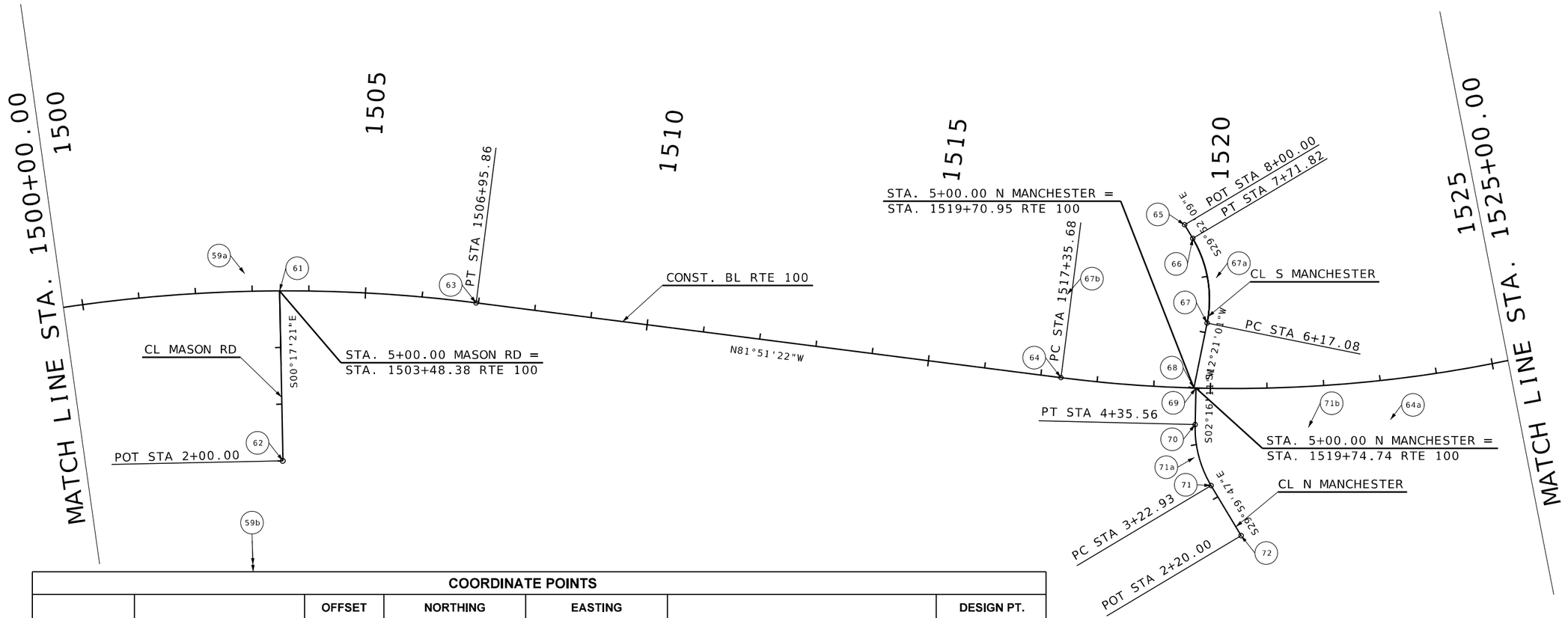

COORDINATE POINTS

STATION	LOCATION	OFFSET (FEET)	NORTHING (FEET)	EASTING (FEET)	DESCRIPTION	DESIGN PT. ID
1502+90.69	RTE 100	31.79' LT.	1005933.02	826197.18	PI STA 1502+90.69 RTE 100	59a
1506+95.86	RTE 100	2650' RT.	1008614.62	826165.03	CC OF CURVE STA 1506+95.86 RTE 100	59b
5+00.00	S Mason Rd	CL	1005964.78	826135.84	POT STA 5+00.00	61
2+00.00	S Mason Rd	CL	1006264.78	826134.33	POT STA 2+00.00	62
1506+95.86	RTE 100	CL	1005991.34	825789.63	PT STA 1506+95.86 RTE 100	63
1517+35.68	RTE 100	CL	1006138.65	824760.30	PC STA 1517+35.68 RTE 100	64
	S Manchester	210.00' LT.	1006001.23	824706.23	CC	67b
8+00.00	S Manchester	CL	1005872.21	824538.16	POT STA 8+00.00	65
	S Manchester	CL	1005896.65	824524.13	PT	66
	S Manchester	CL	1006046.15	824501.09	PC	67
5+00.00	S Manchester	CL	1006160.52	824526.14	POT STA 5+00.00	68
5+00.00	N Manchester	CL	1006160.68	824522.36	POT STA 5+00.00	69
4+53.56	N Manchester	CL	1006225.07	824524.91	PT STA 4+53.56	70
3+80.78	N Manchester	8.20' LT.	1006282.88	824527.20	PI STA 3+80.78	71a
3+22.93	N Manchester	CL	1006332.98	824498.28	PC STA 3+22.93	71
	S Manchester	15.11' RT.	1005966.95	824483.75	PI	67a
	N Manchester	CL	1006422.12	824446.82	POT 2+20.00	72
1523+21.51	RTE 100	70.47' RT.	1006221.64	824180.38	PI STA 1523+21.51 RTE 100	64a
1528+84.87	RTE 100	2400' LT.	1003762.85	824420.31	CC OF CURVE STA 1528+84.87 RTE 100	64b
4+53.56	N Manchester	200.00' RT.	1006232.99	824325.06	CC STA 4+53.56	71b

STATE OF MISSOURI
BRIAN D. KIERATH JR.
NUMBER PE-2023008624
PROFESSIONAL ENGINEER
04/01/2025 10:41:10 AM
Brian D. Kierath Jr. - Civil
MO PE-2023008624

DATE PREPARED 4/1/2025

ROUTE	STATE
100	MO
DISTRICT	SHEET NO.
SL	129

COUNTY: ST. LOUIS
JOB NO.: J6P3274
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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16305 SWINGLEY RIDGE RD
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314.231.0100
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ASSOCIATES, INC.
PRO. ENGINEER 000133
ARCHITECT 000212
PRO. LAND SURVEYOR 000059

SHEET 10 OF 13

COORDINATE POINT SHEET

MO ROUTE 100
MANCHESTER ROAD

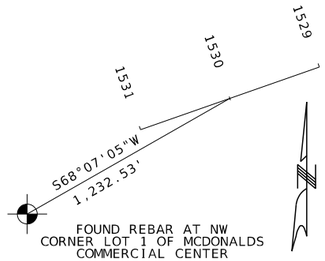
BRIAN KIERATH
PROFESSIONAL
ENGINEER
PE-2023008624

SCALE

0 100 200 300

LAND TIE #4

LAND CORNER TIE:
FOUND REBAR WITH CAP FARNSWORTH LS 299 AT NORTHWESTERN CORNER OF LOT 1 OF MCDONALDS COMMERCIAL CENTER
PB 249 PG 31
1,232.53 FEET SOUTHWEST OF BASELINE STATION 1530+00
PROJECT COORDINATES
N:1005530.700 E:822375.045



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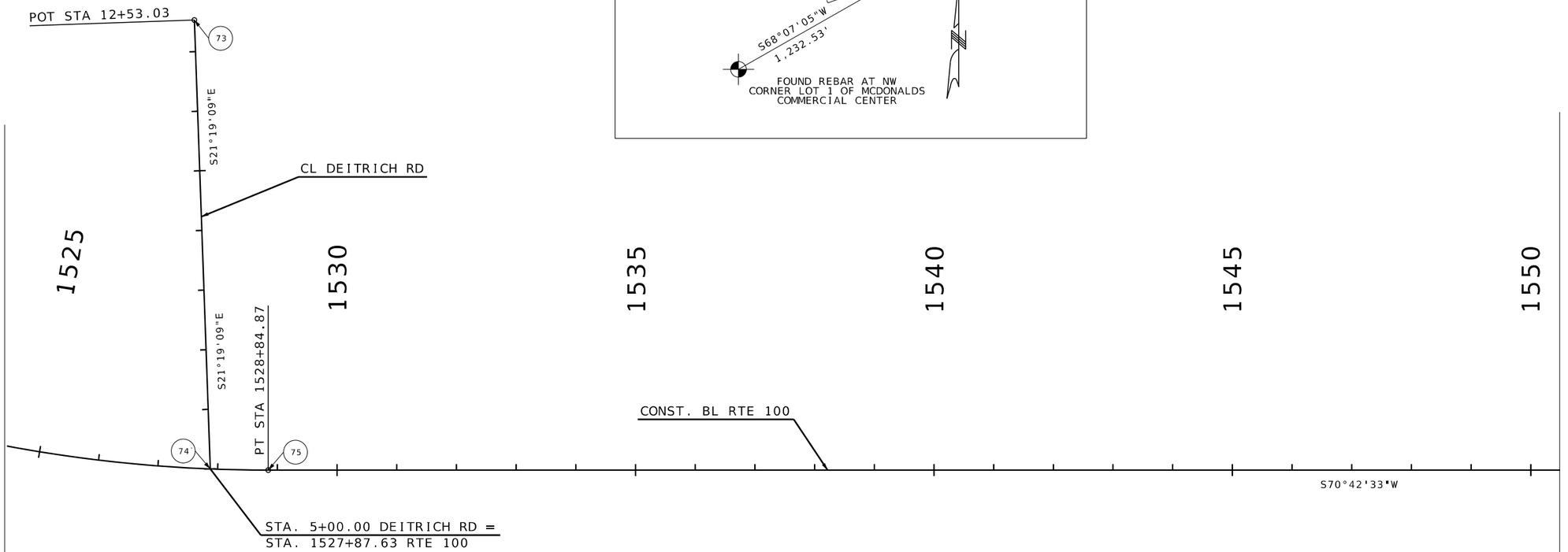

COORDINATE POINTS						
STATION	LOCATION	OFFSET (FEET)	NORTHING (FEET)	EASTING (FEET)	DESCRIPTION	DESIGN PT. ID
12+53.03	Deltrich Rd	CL	1005356.852	823993.620	POT	73
5+00.00	Deltrich Rd	CL	1006058.355	823719.845	POT	74
1528+84.87	RTE 100	CL	1006028.099	823627.439	PT	75

STATE OF MISSOURI
BRIAN D. KIERATH JR.
NUMBER PE-2023008624
PROFESSIONAL ENGINEER
04/01/2025 10:41:11 AM
Brian D. Kierath Jr. - Civil
MO PE-2023008624

DATE PREPARED
4/1/2025

ROUTE	STATE
100	MO
DISTRICT	SHEET NO.
SL	130

COUNTY
ST. LOUIS

JOB NO.
J6P3274

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)

GBA
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CHESTERFIELD, MO 63017
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GEORGE BUTLER
ASSOCIATES, INC.
PRO. ENGINEER 000133
ARCHITECT 000212
PRO. LAND SURVEYOR 000059

SHEET 11 OF 13

COORDINATE POINTS SHEET

MO ROUTE 100
MANCHESTER ROAD

BRIAN KIERATH
PROFESSIONAL
ENGINEER
PE-2023008624

SCALE

0 100 200 300

CURVE RTE100_10	
PI	1568+89.44
PC	1565+38.72
PT	1572+32.44
△	20°48'36.2" (RT)
D	2°59'59.2"
L	693.72' (ARC)
T	350.72'
R	1,910.00'

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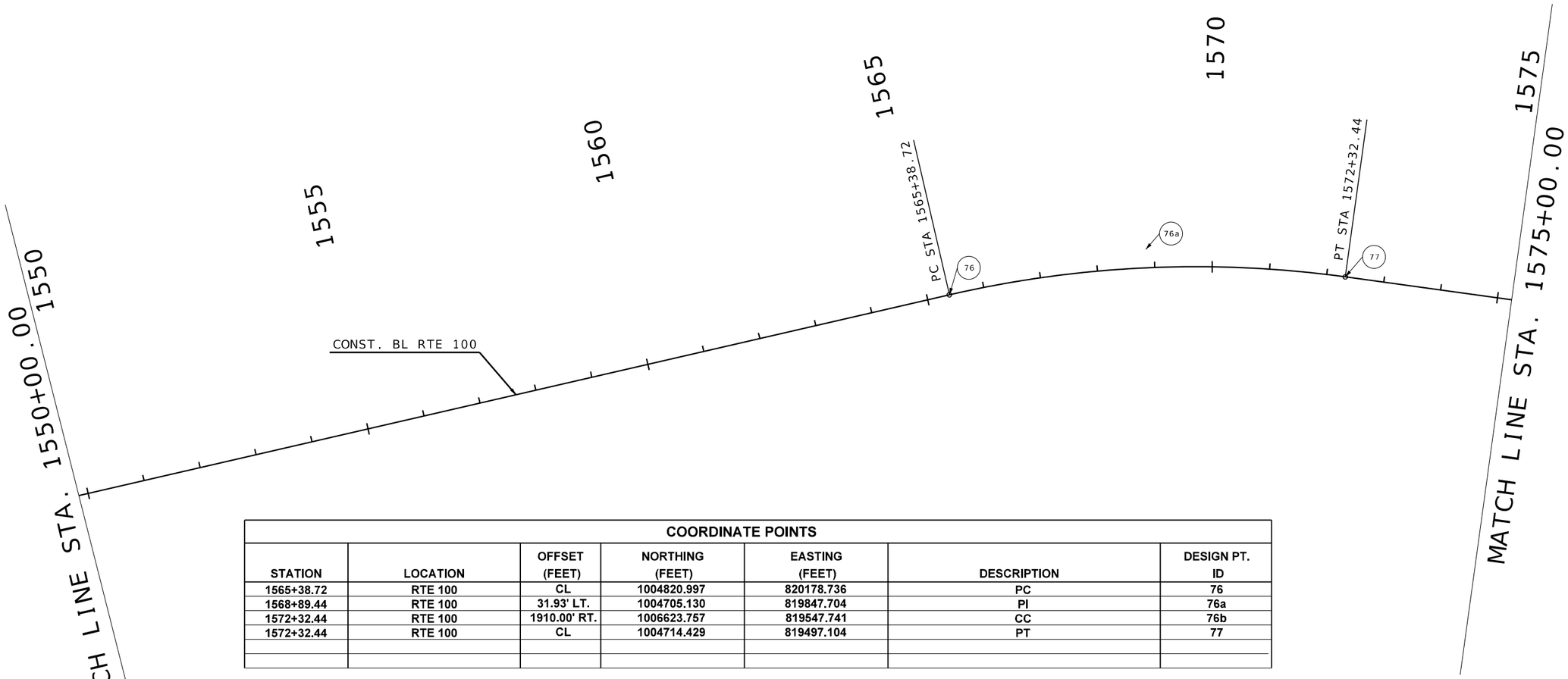

COORDINATE POINTS						
STATION	LOCATION	OFFSET (FEET)	NORTHING (FEET)	EASTING (FEET)	DESCRIPTION	DESIGN PT. ID
1565+38.72	RTE 100	CL	1004820.997	820178.736	PC	76
1568+89.44	RTE 100	31.93' LT.	1004705.130	819847.704	PI	76a
1572+32.44	RTE 100	1910.00' RT.	1006623.757	819547.741	CC	76b
1572+32.44	RTE 100	CL	1004714.429	819497.104	PT	77

STATE OF MISSOURI
BRIAN D. KIERATH JR.
NUMBER PE-2023008624
PROFESSIONAL ENGINEER
04/01/2025 10:41:11 AM
Brian D. Kierath Jr. - Civil
MO PE-2023008624

DATE PREPARED
4/1/2025

ROUTE	STATE
100	MO
DISTRICT	SHEET NO.
SL	131

COUNTY
ST. LOUIS

JOB NO.
J6P3274

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)

GBA
16305 SWINGLEY RIDGE RD
ST. 300
CHESTERFIELD, MO 63017
314.231.0100
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GEORGE BUTLER
ASSOCIATES, INC.
PRO. ENGINEER 000133
ARCHITECT 000212
PRO. LAND SURVEYOR 000059

SHEET 12 OF 13

COORDINATE POINT

MO ROUTE 100
MANCHESTER ROAD

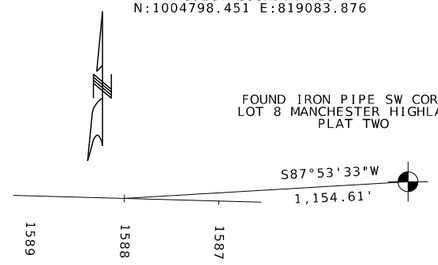
BRIAN KIERATH
PROFESSIONAL
ENGINEER
PE-2023008624

SCALE

0 100 200 300

LAND TIE #5

LAND CORNER TIE:
FOUND IRON PIPE WITH CAP LS14D AT SOUTHWESTERN CORNER OF LOT 8 OF MANCHESTER HIGHLANDS PLAT TWO
PB 356 PG 96
1,154.61 FEET NORTHEAST OF BASELINE STATION 1588+00.00
PROJECT COORDINATES
N:1004798.451 E:819083.876



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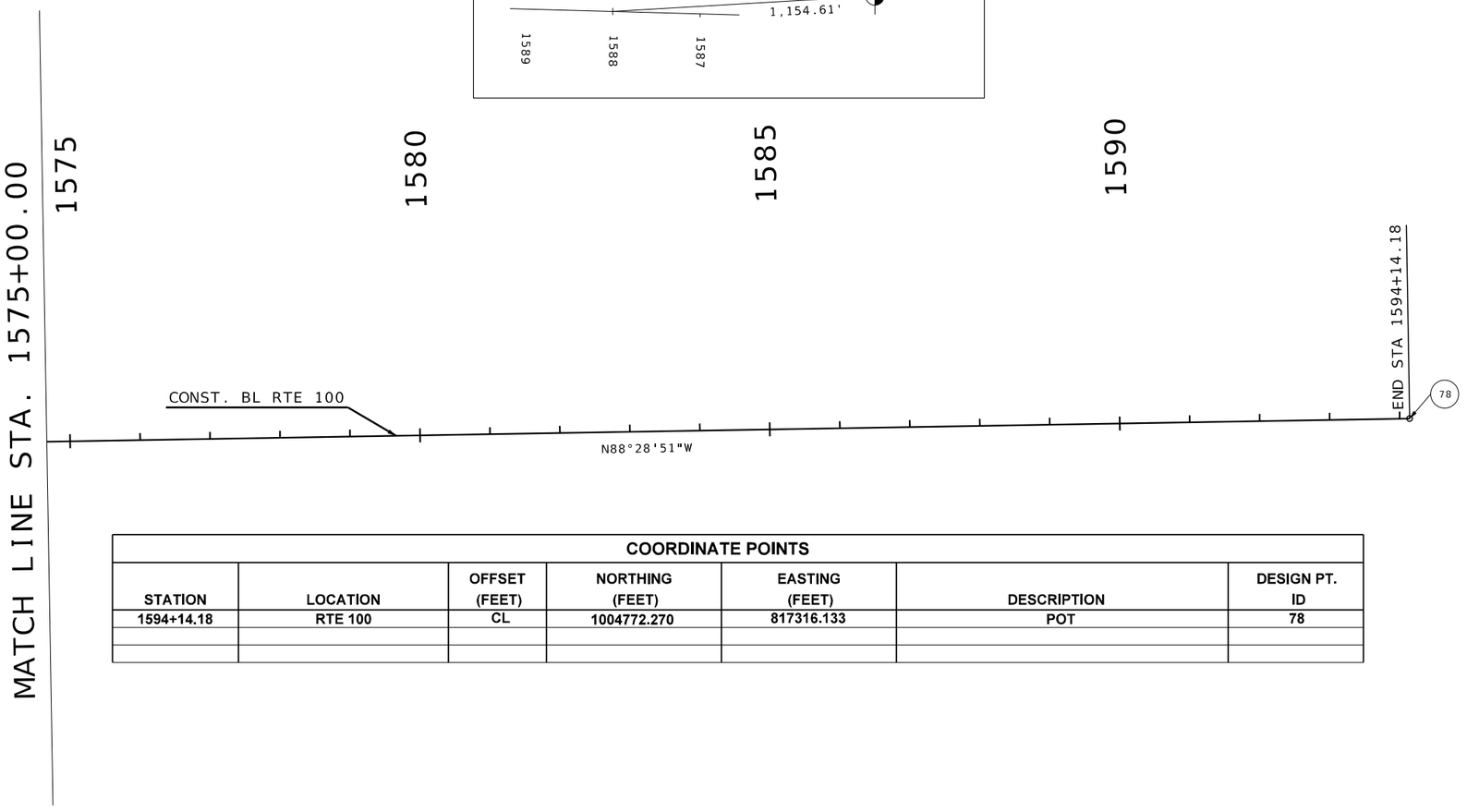

COORDINATE POINTS

STATION	LOCATION	OFFSET (FEET)	NORTHING (FEET)	EASTING (FEET)	DESCRIPTION	DESIGN PT. ID
1594+14.18	RTE 100	CL	1004772.270	817316.133	POT	78

BRIAN D. KIERATH JR. NUMBER PE-2023008624
PROFESSIONAL ENGINEER
STATE OF MISSOURI
04/01/2025 10:41:11 AM
Brian D. Kierath Jr. - Civil
MO PE-2023008624

DATE PREPARED 4/1/2025
ROUTE 100 | STATE MO
DISTRICT SL | SHEET NO. 132
COUNTY ST. LOUIS
JOB NO. J6P3274
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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GEORGE BUTLER ASSOCIATES, INC.
PRO. ENGINEER 000133
ARCHITECT 000212
PRO. LAND SURVEYOR 000059

SHEET 13 OF 13

COORDINATE POINT SHEET

MO ROUTE 100
MANCHESTER ROAD

BRIAN KIERATH
PROFESSIONAL ENGINEER
PE-2023008624

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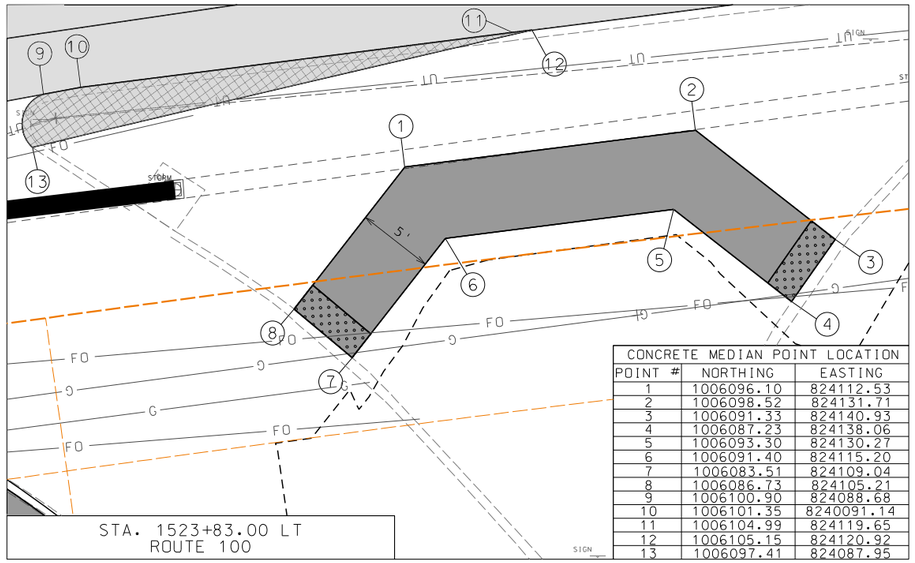
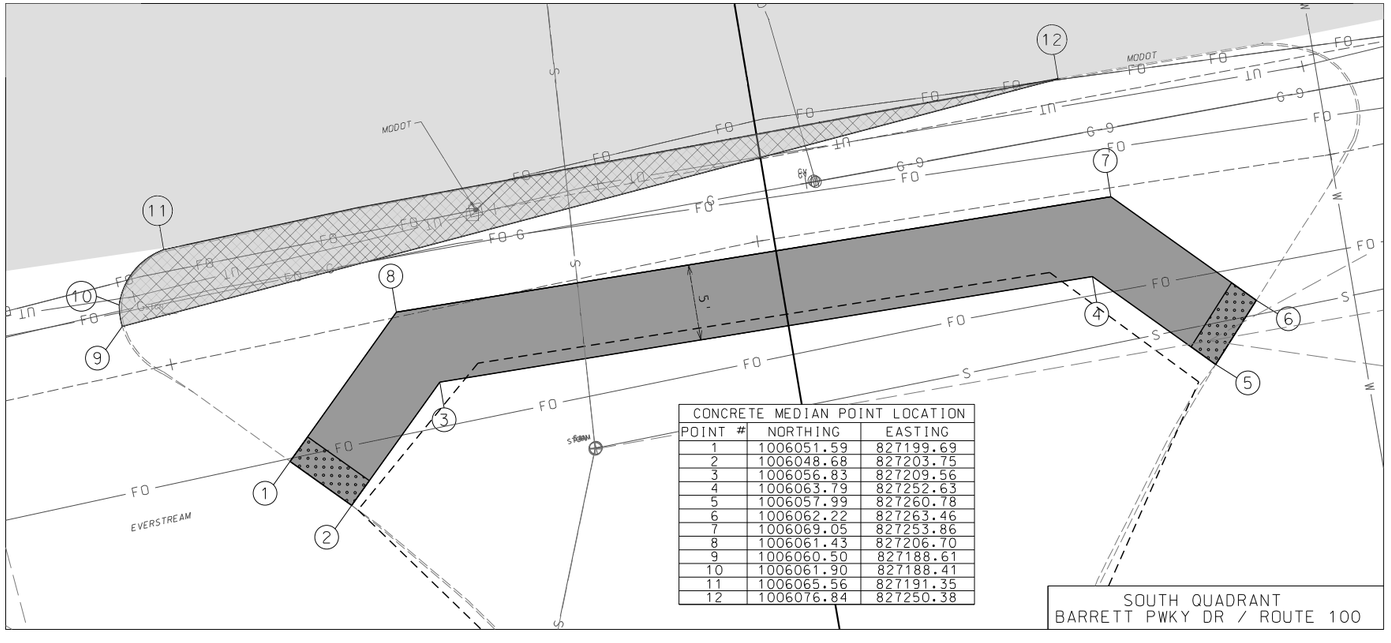


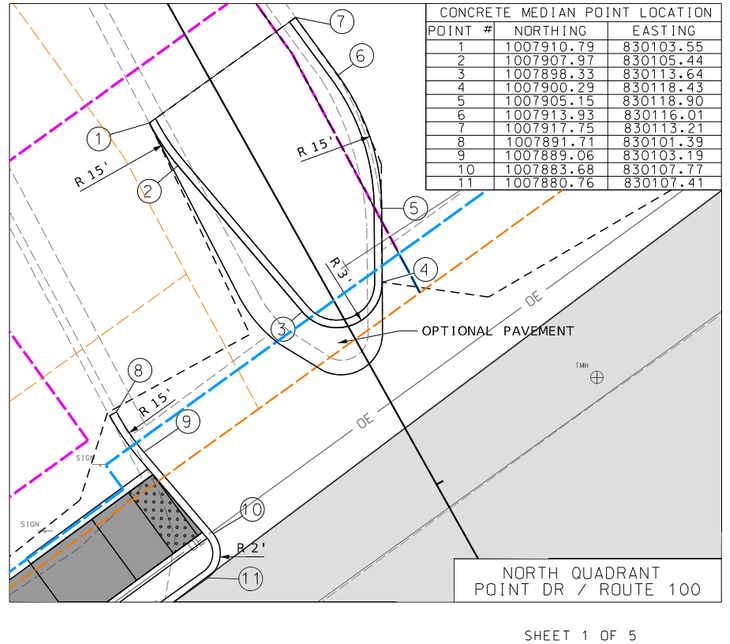
CONCRETE MEDIAN POINT LOCATION		
POINT #	NORTHING	EASTING
1	1006096.10	824112.53
2	1006098.52	824131.71
3	1006091.33	824140.93
4	1006087.23	824138.06
5	1006093.30	824130.27
6	1006091.40	824115.20
7	1006083.51	824109.04
8	1006086.73	824105.21
9	1006100.90	824088.68
10	1006101.35	8240091.14
11	1006104.99	824119.65
12	1006105.15	824120.92
13	1006097.41	824087.95

SCALE
0 5 10 15



CONCRETE MEDIAN POINT LOCATION		
POINT #	NORTHING	EASTING
1	1006051.59	827199.69
2	1006048.68	827203.75
3	1006056.83	827209.56
4	1006063.79	827252.63
5	1006057.99	827260.78
6	1006062.22	827263.46
7	1006069.05	827253.86
8	1006061.43	827206.70
9	1006060.50	827188.61
10	1006061.90	827188.41
11	1006065.56	827191.35
12	1006076.84	827250.38

SOUTH QUADRANT
BARRETT PWKY DR / ROUTE 100



CONCRETE MEDIAN POINT LOCATION		
POINT #	NORTHING	EASTING
1	1007910.79	830103.55
2	1007907.97	830105.44
3	1007898.33	830113.64
4	1007900.29	830118.43
5	1007905.15	830118.90
6	1007913.93	830116.01
7	1007917.75	830113.21
8	1007891.71	830101.39
9	1007889.06	830103.19
10	1007883.68	830107.77
11	1007880.76	830107.41

NORTH QUADRANT
POINT DR / ROUTE 100

SHEET 1 OF 5

ISLAND AND MEDIAN DETAILS

MO ROUTE 100
MANCHESTER ROAD

STATE OF MISSOURI
BRIAN D. KIERATH JR.
NUMBER PE-2023008624
PROFESSIONAL ENGINEER
04/02/2025 8:10:42 AM
Brian D. Kierath Jr. - Civil
MO PE-2023008624

DATE PREPARED
4/2/2025

ROUTE	STATE
100	MO
DISTRICT	SHEET NO.
SL	133

COUNTY
ST. LOUIS

JOB NO.
J6P3274

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)

GBA
16305 SWINGLEY RIDGE RD
ST. 300
CHESTERFIELD, MO 63017
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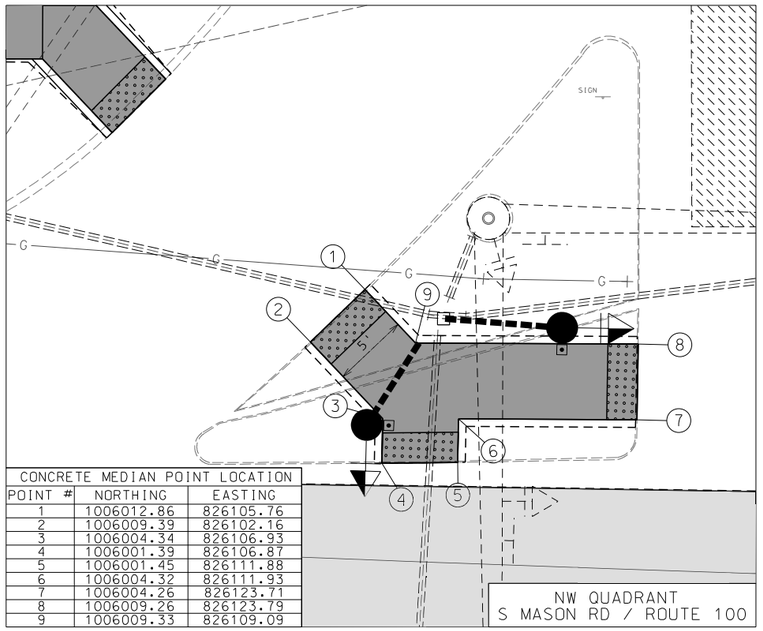
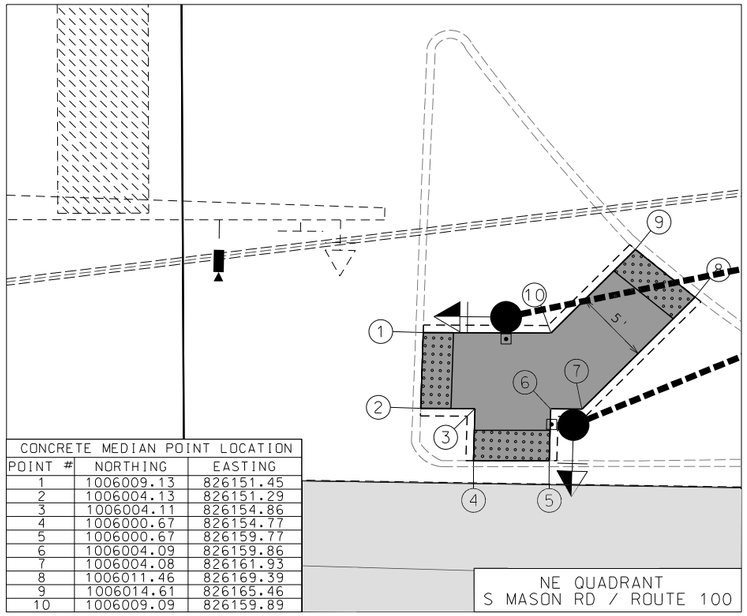
ASSOCIATES, INC.
PRO. ENGINEER 000133
ARCHITECT 000212
PRO. LAND SURVEYOR 000059

BRIAN KIERATH
PROFESSIONAL
ENGINEER
PE-2023008624



CONCRETE MEDIAN POINT LOCATION		
POINT #	NORTHING	EASTING
1	1006012.86	826105.76
2	1006009.39	826102.16
3	1006004.34	826106.93
4	1006001.39	826106.87
5	1006001.45	826111.88
6	1006004.32	826111.93
7	1006004.26	826123.71
8	1006009.26	826123.79
9	1006009.33	826109.09

NW QUADRANT
S MASON RD / ROUTE 100



CONCRETE MEDIAN POINT LOCATION		
POINT #	NORTHING	EASTING
1	1006009.13	826151.45
2	1006004.13	826151.29
3	1006004.11	826154.86
4	1006000.67	826154.77
5	1006000.67	826159.77
6	1006004.09	826159.86
7	1006004.08	826161.93
8	1006011.46	826169.39
9	1006014.61	826165.46
10	1006009.09	826159.89

NE QUADRANT
S MASON RD / ROUTE 100

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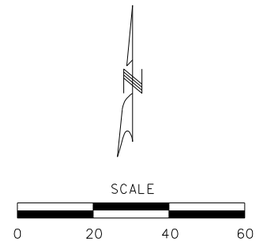
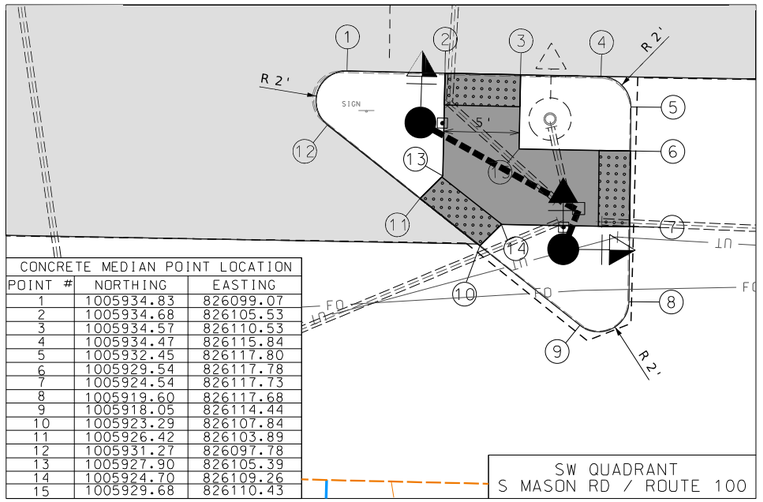
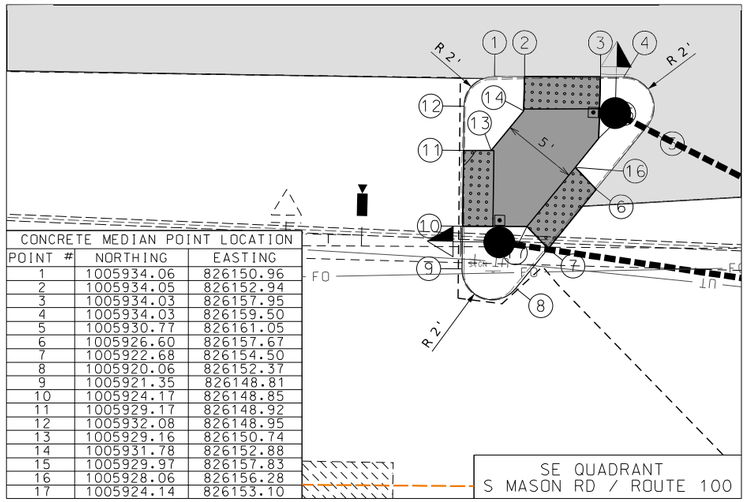




CONCRETE MEDIAN POINT LOCATION		
POINT #	NORTHING	EASTING
1	1005934.83	826099.07
2	1005934.68	826105.53
3	1005934.57	826110.53
4	1005934.47	826115.84
5	1005932.45	826117.80
6	1005929.54	826117.78
7	1005924.54	826117.73
8	1005919.60	826117.68
9	1005918.05	826114.44
10	1005923.29	826107.84
11	1005926.42	826103.89
12	1005931.27	826097.78
13	1005927.90	826105.39
14	1005924.70	826109.26
15	1005929.68	826110.43

SW QUADRANT
S MASON RD / ROUTE 100



CONCRETE MEDIAN POINT LOCATION		
POINT #	NORTHING	EASTING
1	1005934.06	826150.96
2	1005934.05	826152.94
3	1005934.03	826157.95
4	1005934.03	826159.50
5	1005930.77	826161.05
6	1005926.60	826157.67
7	1005922.68	826154.50
8	1005920.06	826152.37
9	1005921.35	826148.81
10	1005924.17	826148.85
11	1005929.17	826148.92
12	1005932.08	826148.95
13	1005929.16	826150.74
14	1005931.78	826152.88
15	1005929.97	826157.83
16	1005928.06	826156.28
17	1005924.14	826153.10

SE QUADRANT
S MASON RD / ROUTE 100

SHEET 2 OF 5

ISLAND AND MEDIAN DETAILS

MO ROUTE 100
MANCHESTER ROAD

STATE OF MISSOURI
BRIAN D. KIERATH JR.
NUMBER PE-2023008624
PROFESSIONAL ENGINEER

04/02/2025 8:10:58 AM
Brian D. Kierath Jr. - Civil
MO PE-2023008624

DATE PREPARED
4/2/2025

ROUTE	STATE
100	MO
DISTRICT	SHEET NO.
SL	134

COUNTY
ST. LOUIS

JOB NO.
J6P3274

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)

GBA
16305 SWINGLEY RIDGE RD
ST. 300
CHESTERFIELD, MO 63017
314.231.0100
GBAteam.com

GEORGE BUTLER
ASSOCIATES, INC.
PRO. ENGINEER 000133
ARCHITECT 000212
PRO. LAND SURVEYOR 000059

BRIAN KIERATH
PROFESSIONAL
ENGINEER
PE-2023008624

REV.

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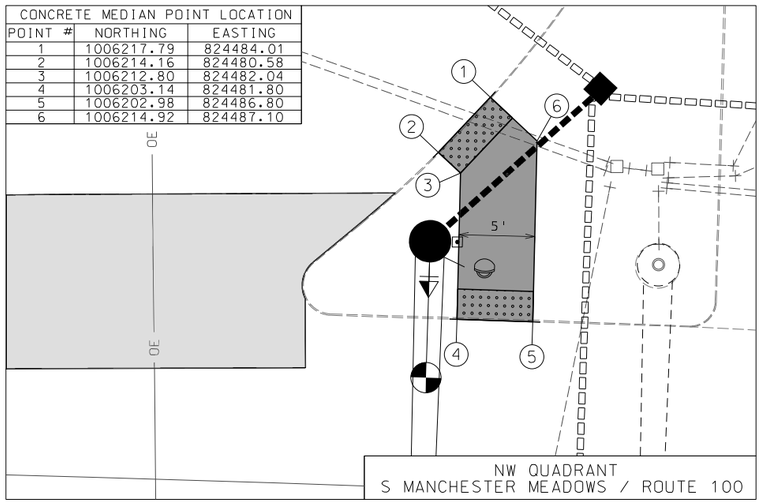
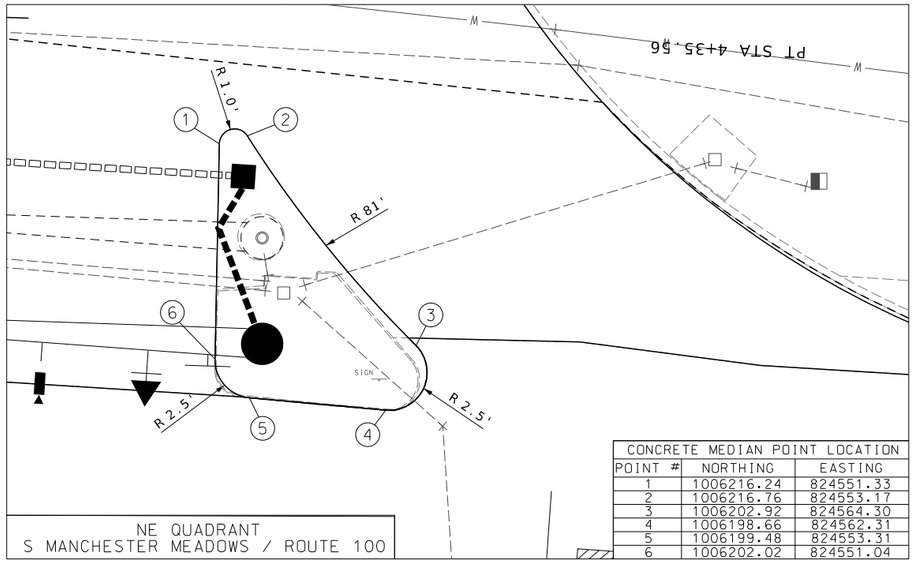
CONCRETE MEDIAN POINT LOCATION		
POINT #	NORTHING	EASTING
1	1006217.79	824484.01
2	1006214.16	824480.58
3	1006212.80	824482.04
4	1006203.14	824481.80
5	1006202.98	824486.80
6	1006214.92	824487.10

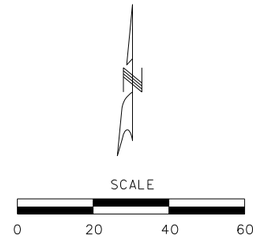


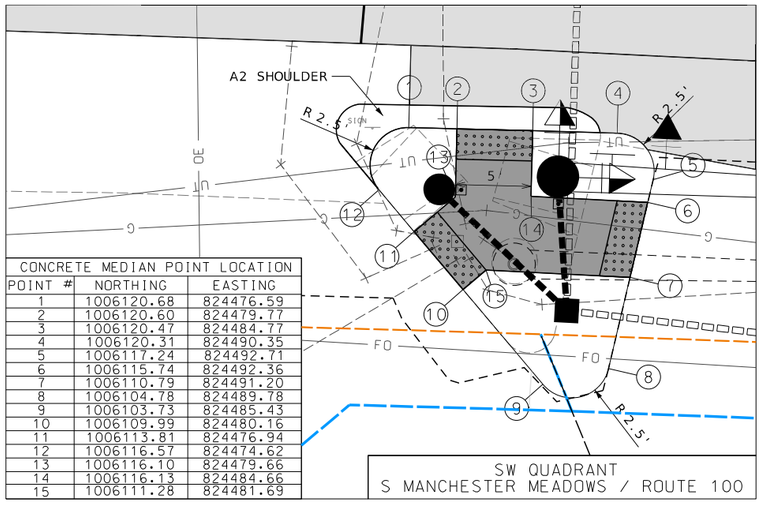
NW QUADRANT
S MANCHESTER MEADOWS / ROUTE 100



CONCRETE MEDIAN POINT LOCATION		
POINT #	NORTHING	EASTING
1	1006216.24	824551.33
2	1006216.76	824553.17
3	1006202.92	824564.30
4	1006198.66	824562.31
5	1006199.48	824553.31
6	1006202.02	824551.04

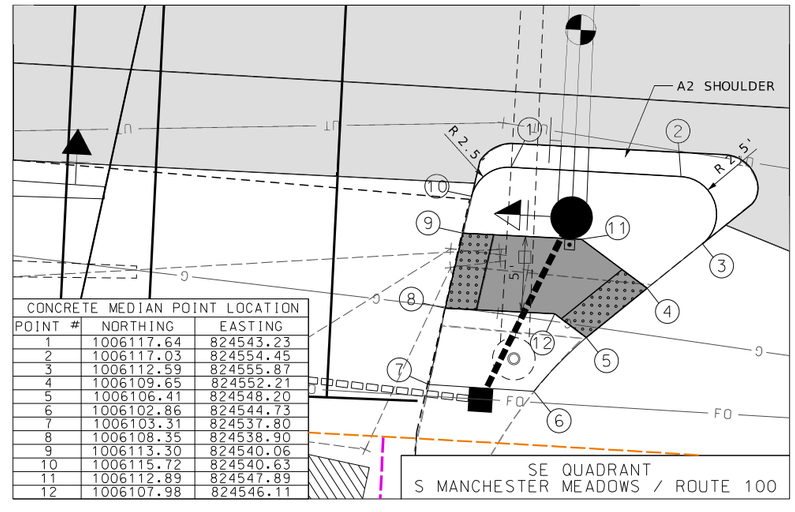
NE QUADRANT
S MANCHESTER MEADOWS / ROUTE 100





CONCRETE MEDIAN POINT LOCATION		
POINT #	NORTHING	EASTING
1	1006120.68	824476.59
2	1006120.60	824479.77
3	1006120.47	824484.77
4	1006120.31	824490.35
5	1006117.24	824492.71
6	1006115.74	824492.36
7	1006110.79	824491.20
8	1006104.78	824489.78
9	1006103.73	824485.43
10	1006109.99	824480.16
11	1006113.81	824476.94
12	1006116.57	824474.62
13	1006116.10	824479.66
14	1006116.13	824484.66
15	1006111.28	824481.69

SW QUADRANT
S MANCHESTER MEADOWS / ROUTE 100



CONCRETE MEDIAN POINT LOCATION		
POINT #	NORTHING	EASTING
1	1006117.64	824543.23
2	1006117.03	824554.45
3	1006112.59	824555.87
4	1006109.65	824552.21
5	1006106.41	824548.20
6	1006102.86	824544.73
7	1006103.31	824537.80
8	1006108.35	824538.90
9	1006113.30	824540.06
10	1006115.72	824540.63
11	1006112.89	824547.89
12	1006107.98	824546.11

SE QUADRANT
S MANCHESTER MEADOWS / ROUTE 100

SHEET 3 OF 5

ISLAND AND MEDIAN DETAILS

MO ROUTE 100
MANCHESTER ROAD

STATE OF MISSOURI
BRIAN D. KIERATH JR.
NUMBER PE-2023008624
PROFESSIONAL ENGINEER
04/02/2025 8:10:58 AM
Brian D. Kierath Jr. - Civil
MO PE-2023008624

DATE PREPARED
4/2/2025

ROUTE	STATE
100	MO
DISTRICT	SHEET NO.
SL	135

COUNTY
ST. LOUIS

JOB NO.
J6P3274

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)

GBA
16305 SWINGLEY RIDGE RD
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GEORGE BUTLER
ASSOCIATES, INC.
PRO. ENGINEER 000133
ARCHITECT 000212
PRO. LAND SURVEYOR 000059

BRIAN KIERATH
PROFESSIONAL
ENGINEER
PE-2023008624

REV.

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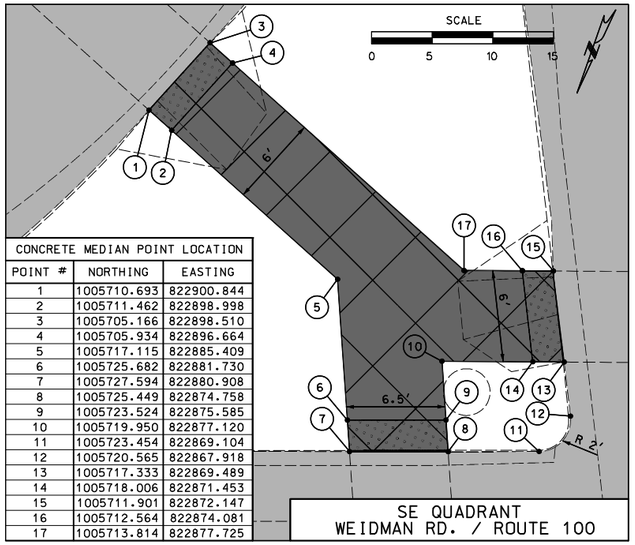
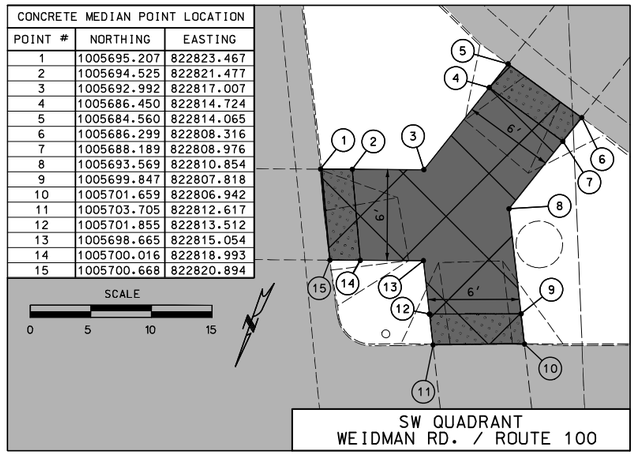


CONCRETE MEDIAN POINT LOCATION		
POINT #	NORTHING	EASTING
1	1005710.693	822900.844
2	1005711.462	822898.998
3	1005705.166	822898.510
4	1005705.934	822896.664
5	1005717.115	822885.409
6	1005725.682	822881.730
7	1005727.594	822880.908
8	1005725.449	822874.758
9	1005723.524	822875.585
10	1005719.950	822877.120
11	1005723.454	822869.104
12	1005720.565	822867.918
13	1005717.333	822869.489
14	1005718.006	822871.453
15	1005711.901	822872.147
16	1005712.564	822874.081
17	1005713.814	822877.725

SE QUADRANT
WEIDMAN RD. / ROUTE 100



CONCRETE MEDIAN POINT LOCATION		
POINT #	NORTHING	EASTING
1	1005695.207	822823.467
2	1005694.525	822821.477
3	1005692.992	822817.007
4	1005686.450	822814.724
5	1005684.560	822814.065
6	1005686.299	822808.316
7	1005688.189	822808.976
8	1005693.569	822810.854
9	1005699.847	822807.818
10	1005701.659	822806.942
11	1005703.705	822812.617
12	1005701.855	822813.512
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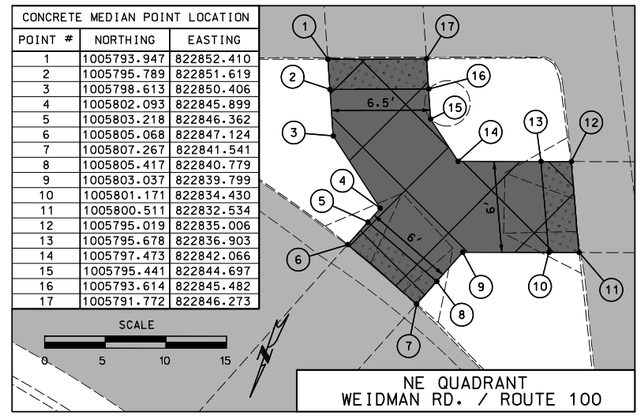
SW QUADRANT
WEIDMAN RD. / ROUTE 100



CONCRETE MEDIAN POINT LOCATION		
POINT #	NORTHING	EASTING
1	1005793.947	822852.410
2	1005795.789	822851.619
3	1005798.613	822850.406
4	1005802.093	822845.899
5	1005803.218	822846.362
6	1005805.068	822847.124
7	1005807.267	822841.541
8	1005805.417	822840.779
9	1005803.037	822839.799
10	1005801.171	822834.430
11	1005800.511	822832.534
12	1005795.019	822835.006
13	1005795.678	822836.903
14	1005797.473	822842.066
15	1005795.441	822844.697
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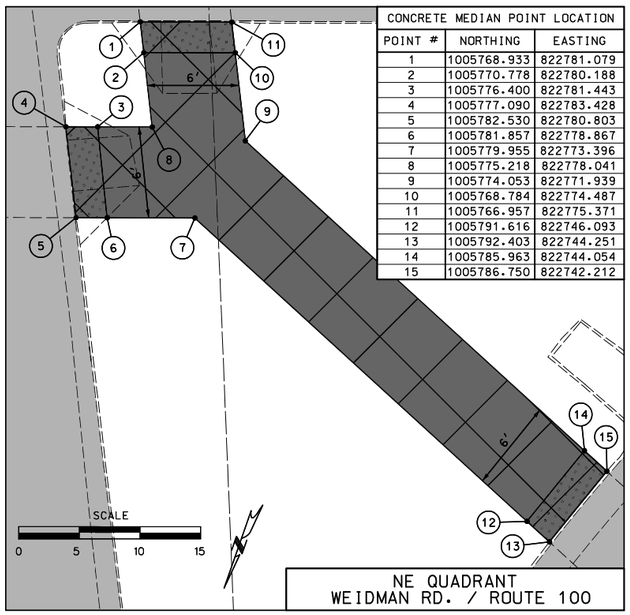
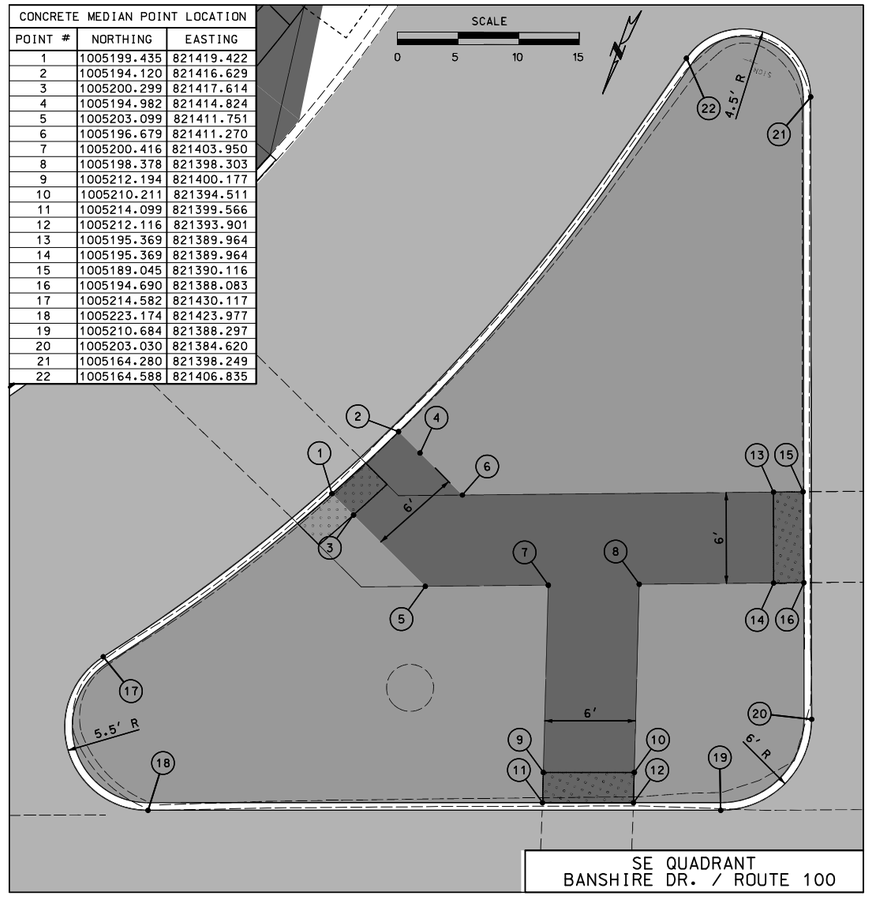
NE QUADRANT
WEIDMAN RD. / ROUTE 100



CONCRETE MEDIAN POINT LOCATION		
POINT #	NORTHING	EASTING
1	1005768.933	822781.079
2	1005770.778	822780.188
3	1005776.400	822781.443
4	1005777.090	822783.428
5	1005782.530	822780.803
6	1005781.857	822778.867
7	1005779.955	822773.396
8	1005775.218	822778.041
9	1005774.053	822771.939
10	1005768.784	822774.487
11	1005766.957	822775.371
12	1005791.616	822746.093
13	1005792.403	822744.251
14	1005785.963	822744.054
15	1005786.750	822742.212

NE QUADRANT
WEIDMAN RD. / ROUTE 100



CONCRETE MEDIAN POINT LOCATION		
POINT #	NORTHING	EASTING
1	1005199.435	821419.422
2	1005194.120	821416.629
3	1005200.299	821417.614
4	1005194.982	821414.824
5	1005203.099	821411.751
6	1005196.679	821411.270
7	1005200.416	821403.950
8	1005198.378	821398.303
9	1005212.194	821400.177
10	1005210.211	821394.511
11	1005214.099	821399.566
12	1005212.116	821393.901
13	1005195.369	821389.964
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16	1005194.690	821388.083
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18	1005223.174	821423.977
19	1005210.684	821388.297
20	1005203.030	821384.620
21	1005164.280	821398.249
22	1005164.588	821406.835

SE QUADRANT
BANSHIRE DR. / ROUTE 100

STATE OF MISSOURI
JENNIFER L. HUBER
NUMBER PE-2022000257
PROFESSIONAL ENGINEER

Jennifer Huber
03/27/2025 3:18:08 PM
Jennifer Huber - Civil
MO PE-2022000257

DATE PREPARED
3/27/2025

US ROUTE	STATE
100	MO
DISTRICT	SHEET NO.
SL	136

COUNTY
ST. LOUIS

JOB NO.
J6P3274

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)

CMT
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ONE MEMORIAL DRIVE, SUITE 500
ST. LOUIS, MO 63102 (314) 436-5500
ENGINEERING CORPORATION - 000631

SHEET 4 OF 5

ISLAND AND MEDIAN DETAILS

ROUTE 100
MANCHESTER ROAD

CONCRETE MEDIAN POINT LOCATION		
POINT #	NORTHING	EASTING
1	1004759.725	819763.989
2	1004759.014	819759.036
3	1004761.715	819763.780
4	1004761.005	819758.827
5	1004766.767	819763.249
6	1004767.973	819758.095
7	1004767.738	819763.864
8	1004770.463	819759.671
9	1004769.429	819764.934
10	1004772.153	819760.741

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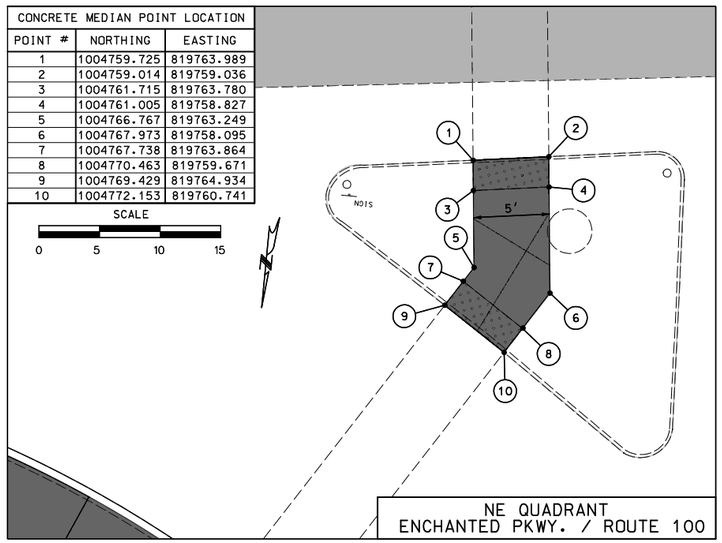
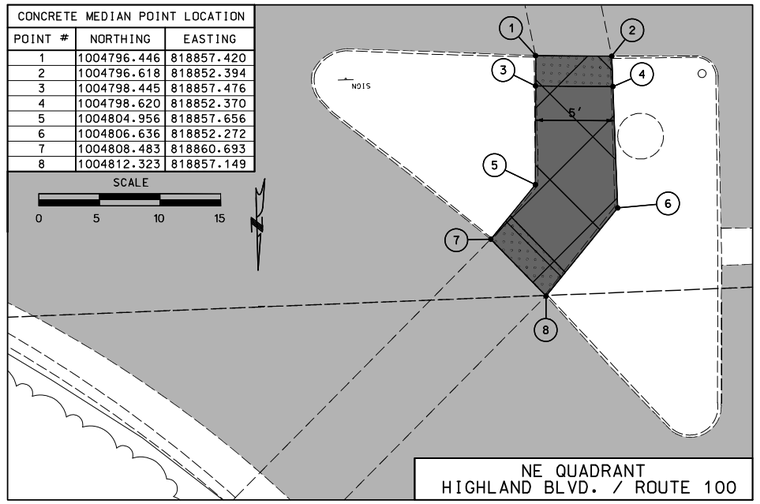


NE QUADRANT
ENCHANTED PKWY. / ROUTE 100

CONCRETE MEDIAN POINT LOCATION		
POINT #	NORTHING	EASTING
1	1004796.446	818857.420
2	1004796.618	818852.394
3	1004798.445	818857.476
4	1004798.620	818852.370
5	1004804.956	818857.656
6	1004806.636	818852.272
7	1004808.483	818860.693
8	1004812.323	818857.149

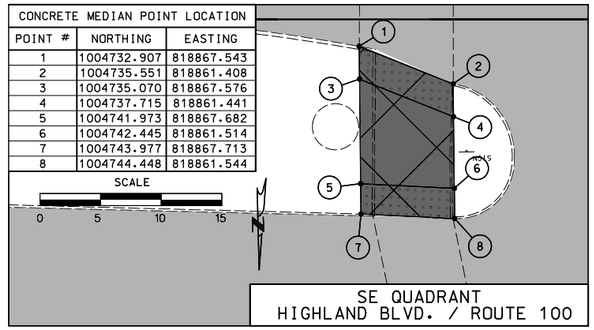
SCALE
0 5 10 15



NE QUADRANT
HIGHLAND BLVD. / ROUTE 100

CONCRETE MEDIAN POINT LOCATION		
POINT #	NORTHING	EASTING
1	1004732.907	818867.543
2	1004735.551	818861.408
3	1004735.070	818867.576
4	1004737.715	818861.441
5	1004741.973	818867.682
6	1004742.445	818861.514
7	1004743.977	818867.713
8	1004744.448	818861.544

SCALE
0 5 10 15



SE QUADRANT
HIGHLAND BLVD. / ROUTE 100

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STATE OF MISSOURI
JENNIFER L. HUBER
NUMBER PE-2022000257
PROFESSIONAL ENGINEER

Jennifer Huber
03/27/2025 3:18:25 PM
Jennifer Huber - Civil
MO PE-2022000257

DATE PREPARED
3/27/2025

US ROUTE	STATE
100	MO
DISTRICT	SHEET NO.
SL	137

COUNTY
ST. LOUIS

JOB NO.
J6P3274

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)

CMT
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ONE MEMORIAL DRIVE, SUITE 500
ST. LOUIS, MO 63102 (314) 436-5500
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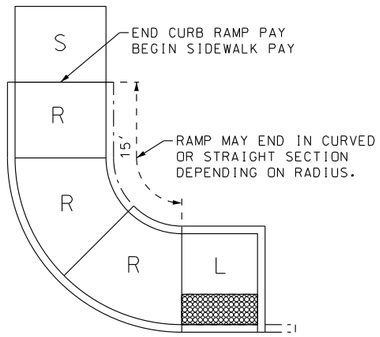
SHEET 5 OF 5

ISLAND AND MEDIAN DETAILS

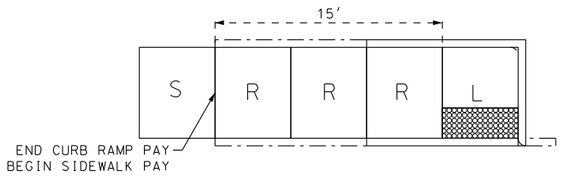
ROUTE 100
MANCHESTER ROAD

PEDESTRIAN CURB RAMP PAY LIMITS

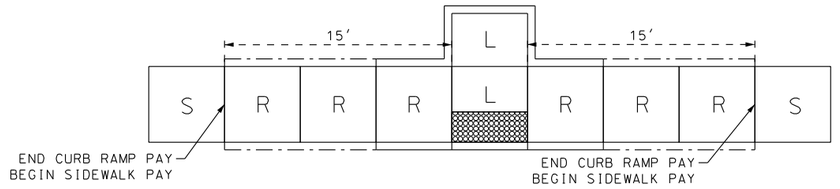


TYPE 1 PARALLEL

THE LENTH OF THIS RAMP SHALL BE MEASURED
ON THE INSIDE/SHORT SIDE OF THE CURVE



TYPE 2 PARALLEL



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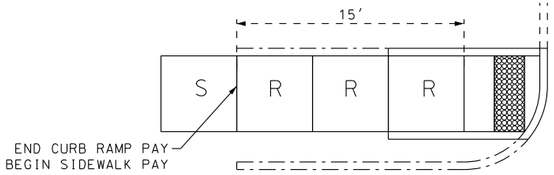
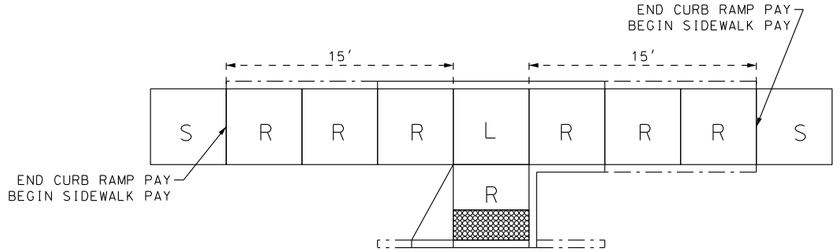
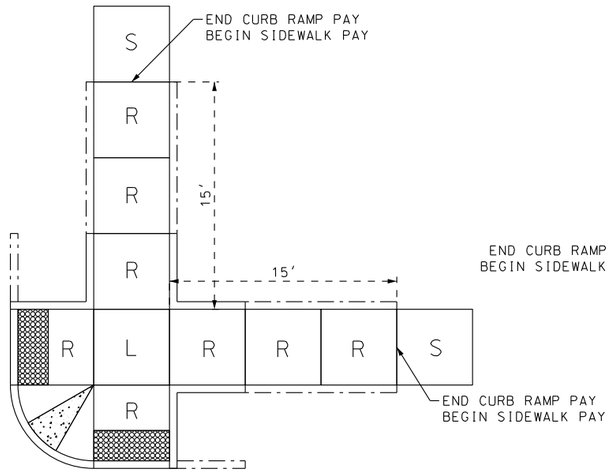


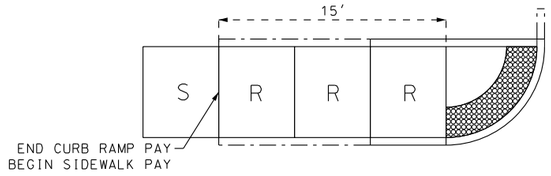
SMALL RADIUS PERPENDICULAR



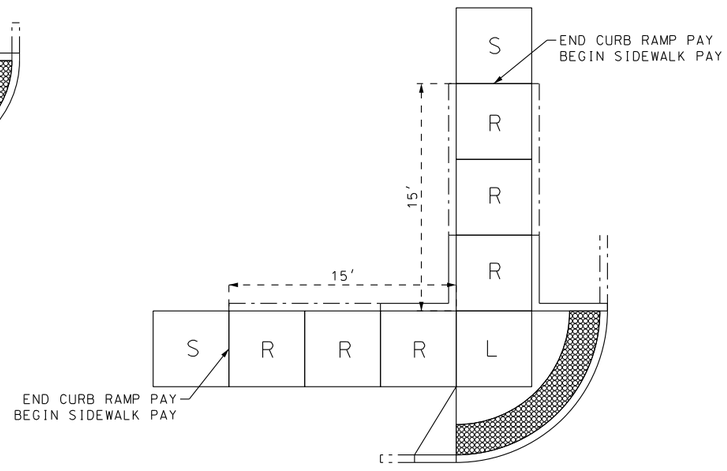
COMPOUND PERPENDICULAR



DUAL PERPENDICULAR
PAY AS 2 EACH



LARGE RADIUS PERPENDICULAR



BLENDED TRANSITION
PAY AS 2 EACH

Notes –
15 FEET OF WALKWAY SHALL BE INCLUDED IN CURB RAMP PAY, PER EACH, AS SHOWN.

L – LANDING OR CLEAR AREA FOR TURNING MOVEMENTS AND RESTS.
R – PAY AS RAMP
S – PAY AS SIDEWALK.

SEE JSP FOR OTHER INCIDENTALS INCLUDED IN CURB RAMP PAY.
SEE STANDARD PLANS 608 SERIES FOR DIMENTIONS, GRADES, AND OTHER REQUIREMENTS.
CONTRACTOR WILL HAVE OPTION TO CONSTRUCT RAMP WITH FLARE OR CURB FOR CERTAIN RAMPS ABOVE.

SHEET 1 OF 2

SPECIAL SHEET

MO ROUTE 100
MANCHESTER ROAD

STATE OF MISSOURI
BRIAN D. KIERATH JR. NUMBER PE-2023008624
PROFESSIONAL ENGINEER
04/02/2025 8:10:58 AM
Brian D. Kierath Jr. - Civil
MO PE-2023008624

DATE PREPARED
4/2/2025

ROUTE	STATE
100	MO
DISTRICT	SHEET NO.
SL	138

COUNTY
ST. LOUIS

JOB NO.
J6P3274

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)

GBA
16305 SWINGLEY RIDGE RD
ST. 300
CHESTERFIELD, MO 63017
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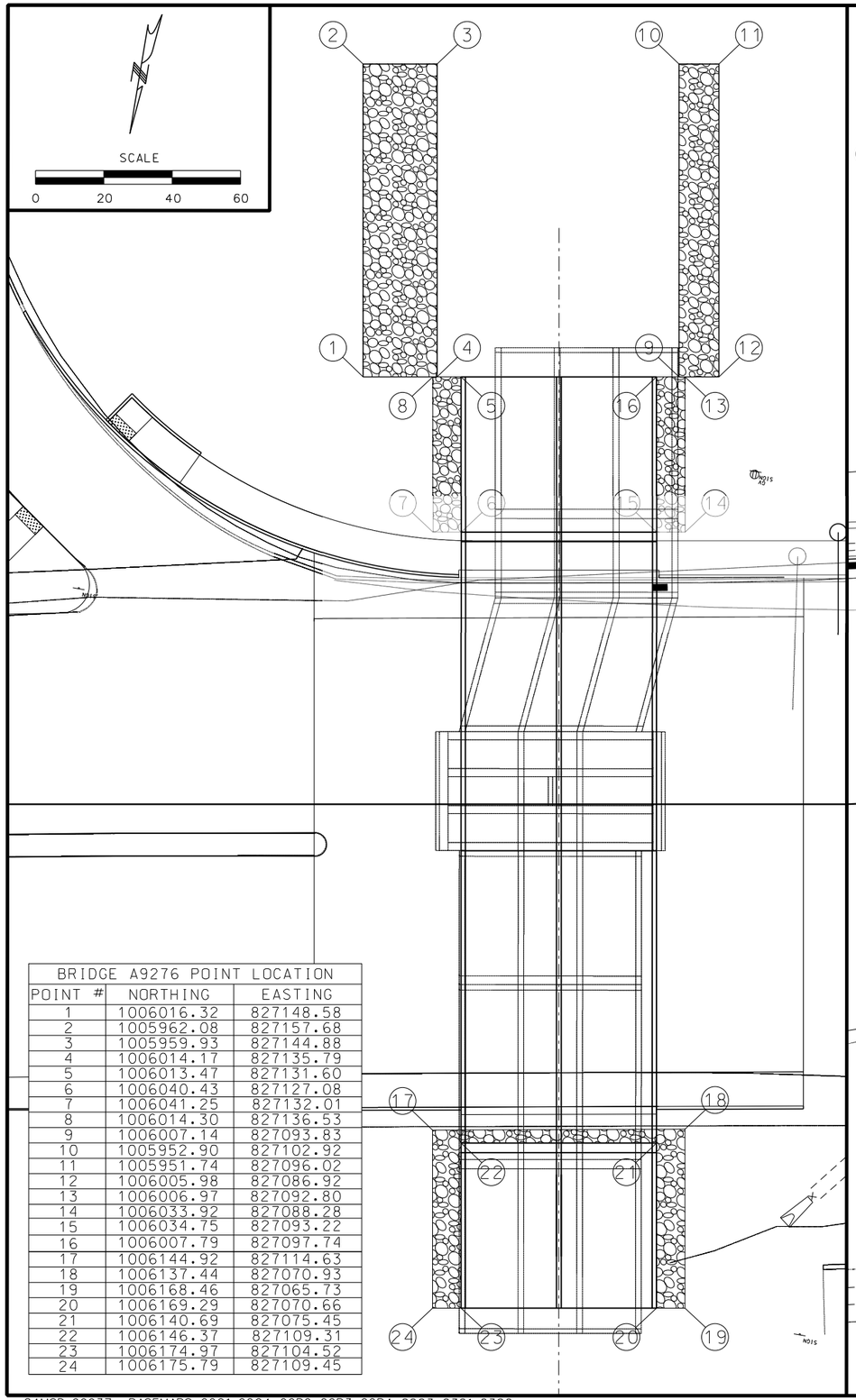
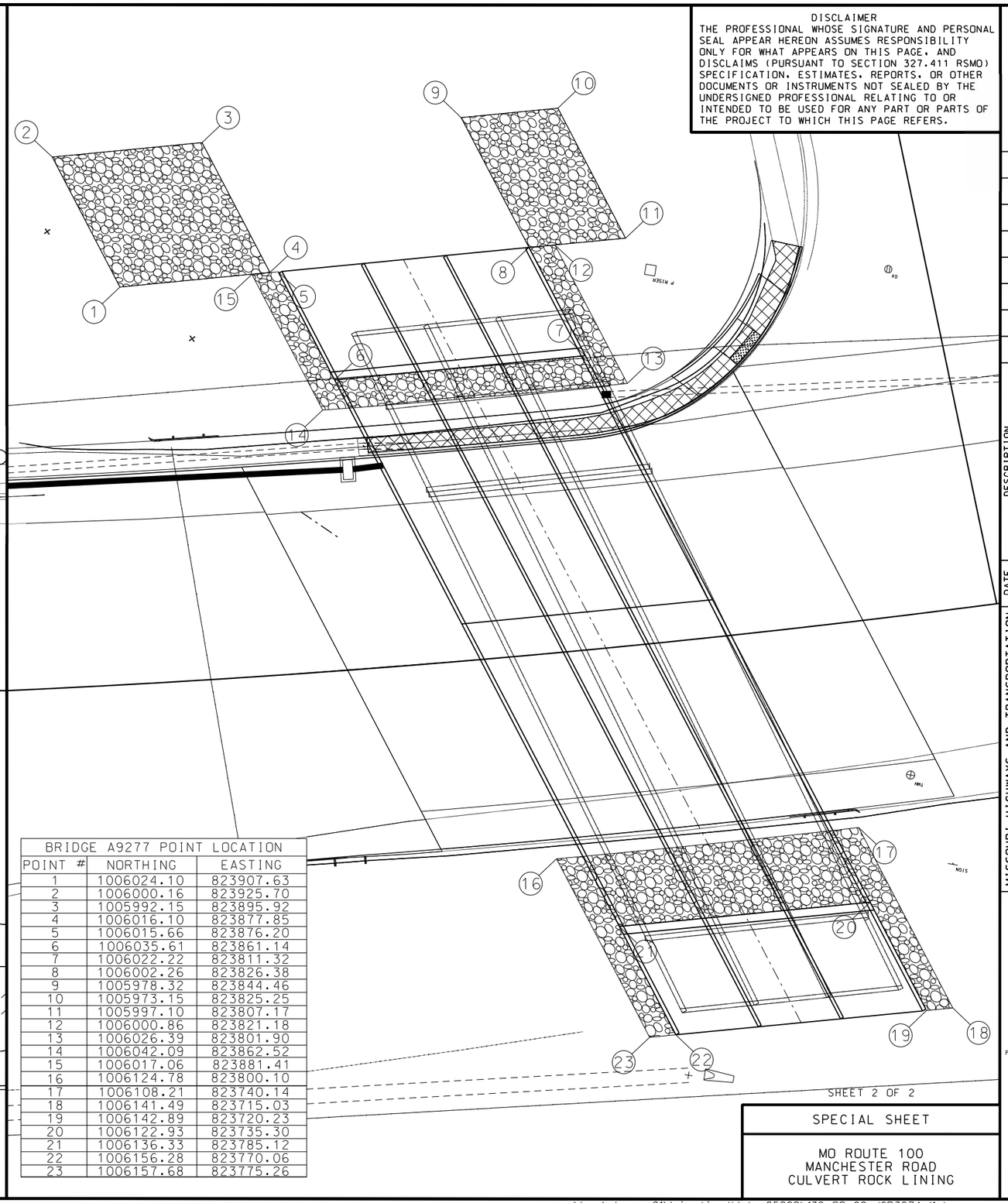
GEORGE BUTLER
ASSOCIATES, INC.
PRO. ENGINEER 000133
ARCHITECT 000212
PRO. LAND SURVEYOR 000059

BRIAN KIERATH
PROFESSIONAL
ENGINEER
PE-2023008624

REV.



BRIDGE A9276 POINT LOCATION		
POINT #	NORTHING	EASTING
1	1006016.32	827148.58
2	1005962.08	827157.68
3	1005959.93	827144.88
4	1006014.17	827135.79
5	1006013.47	827131.60
6	1006040.43	827127.08
7	1006041.25	827132.01
8	1006014.30	827136.53
9	1006007.14	827093.83
10	1005952.90	827102.92
11	1005951.74	827096.02
12	1006005.98	827086.92
13	1006006.97	827092.80
14	1006033.92	827088.28
15	1006034.75	827093.22
16	1006007.79	827097.74
17	1006144.92	827114.63
18	1006137.44	827070.93
19	1006168.46	827065.73
20	1006169.29	827070.66
21	1006140.69	827075.45
22	1006146.37	827109.31
23	1006174.97	827104.52
24	1006175.79	827109.45



BRIDGE A9277 POINT LOCATION		
POINT #	NORTHING	EASTING
1	1006024.10	823907.63
2	1006000.16	823925.70
3	1005992.15	823895.92
4	1006016.10	823877.85
5	1006015.66	823876.20
6	1006035.61	823861.14
7	1006022.22	823811.32
8	1006002.26	823826.38
9	1005978.32	823844.46
10	1005973.15	823825.25
11	1005997.10	823807.17
12	1006000.86	823821.18
13	1006026.39	823801.90
14	1006042.09	823862.52
15	1006017.06	823881.41
16	1006124.78	823800.10
17	1006108.21	823740.14
18	1006141.49	823715.03
19	1006142.89	823720.23
20	1006122.93	823735.30
21	1006136.33	823785.12
22	1006156.28	823770.06
23	1006157.68	823775.26

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STATE OF MISSOURI
BRIAN D. KIERATH JR.
NUMBER PE-2023008624
PROFESSIONAL ENGINEER

04/02/2025 8:10:58 AM
Brian D. Kierath Jr. - Civil
MO PE-2023008624

DATE PREPARED
4/2/2025

ROUTE	STATE
100	MO
DISTRICT	SHEET NO.
SL	139

COUNTY
ST. LOUIS

JOB NO.
J6P3274

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
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GBAteam.com

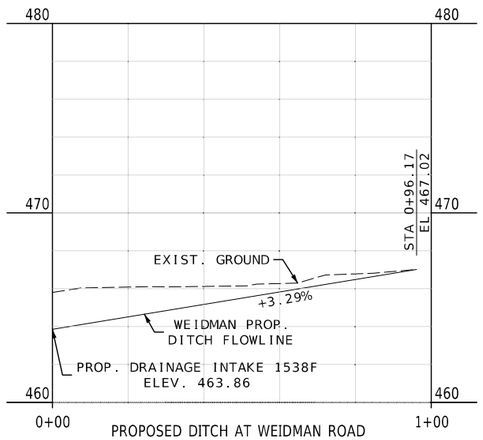
GEORGE BUTLER ASSOCIATES, INC.
PRO. ENGINEER 000133
ARCHITECT 000212
PRO. LAND SURVEYOR 000059

SHEET 2 OF 2

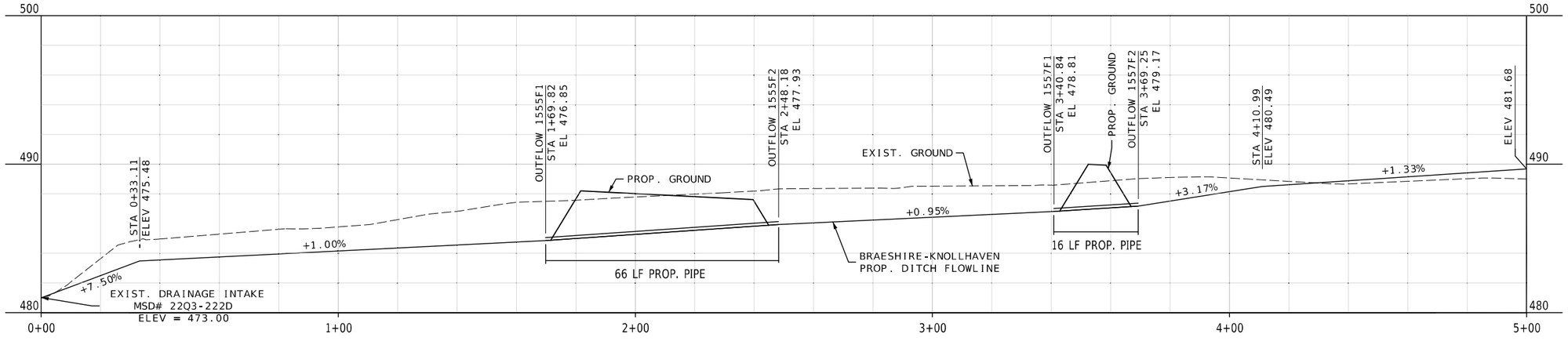
SPECIAL SHEET

MO ROUTE 100
MANCHESTER ROAD
CULVERT ROCK LINING

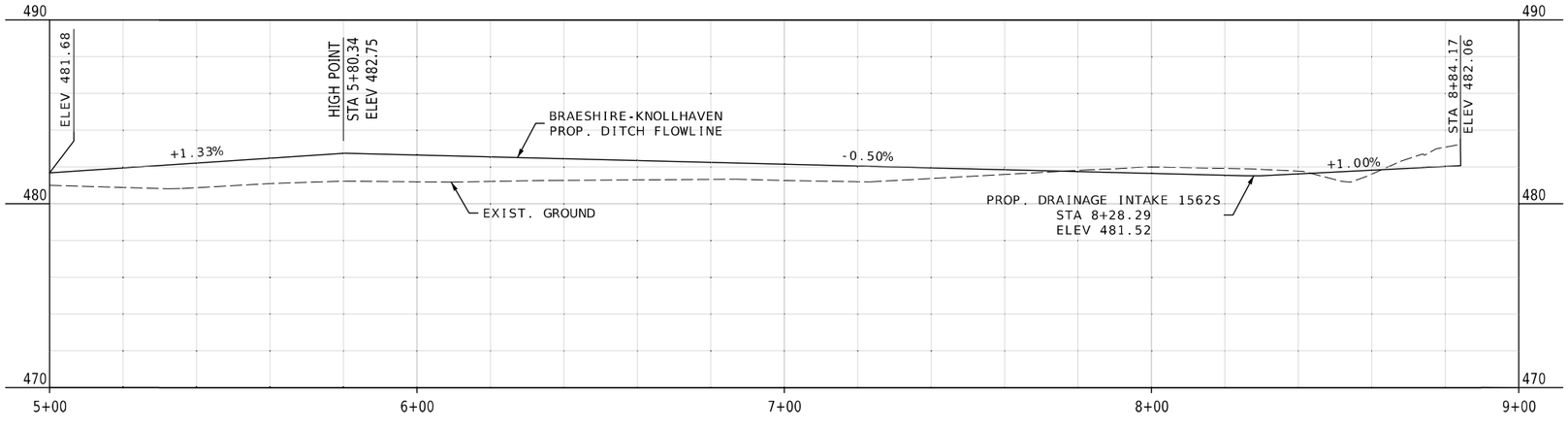
BRIAN KIERATH
PROFESSIONAL ENGINEER
PE-2023008624



PROPOSED DITCH AT WEIDMAN ROAD
ROUTE 100 STA. 1539+00.00 TO STA. 1539+95.90



PROPOSED DITCH AT BRAESHIRE ROAD TO KNOLLHAVEN ROAD
ROUTE 100 STA. 1553+89.48 TO STA. 1562+70.71



CONT. - PROPOSED DITCH AT BRAESHIRE ROAD TO KNOLLHAVEN ROAD
ROUTE 100 STA. 1553+89.48 TO STA. 1562+70.71

SHEET 1 OF 1

DITCH PROFILES

ROUTE 100
MANCHESTER ROAD

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STATE OF MISSOURI
JENNIFER L. HUBER
NUMBER PE-2022000257
PROFESSIONAL ENGINEER

03/27/2025 3:19:49 PM
Jennifer Huber - Civil
MO PE-2022000257

DATE PREPARED
3/27/2025

US ROUTE	STATE
100	MO
DISTRICT	SHEET NO.
SL	140

COUNTY
ST. LOUIS

JOB NO.
J6P3274

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)

CMT
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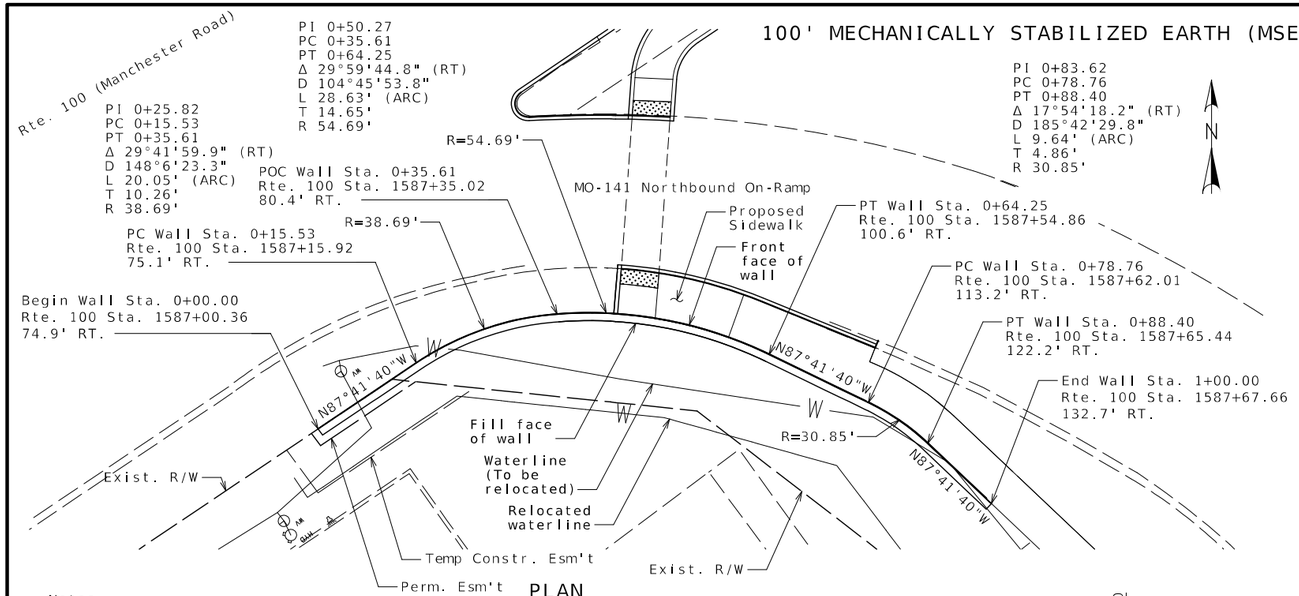
ST. LOUIS, MO 63102 (314) 436-5500
ENGINEERING CORPORATION - 000631

100' MECHANICALLY STABILIZED EARTH (MSE) RETAINING WALL SYSTEM



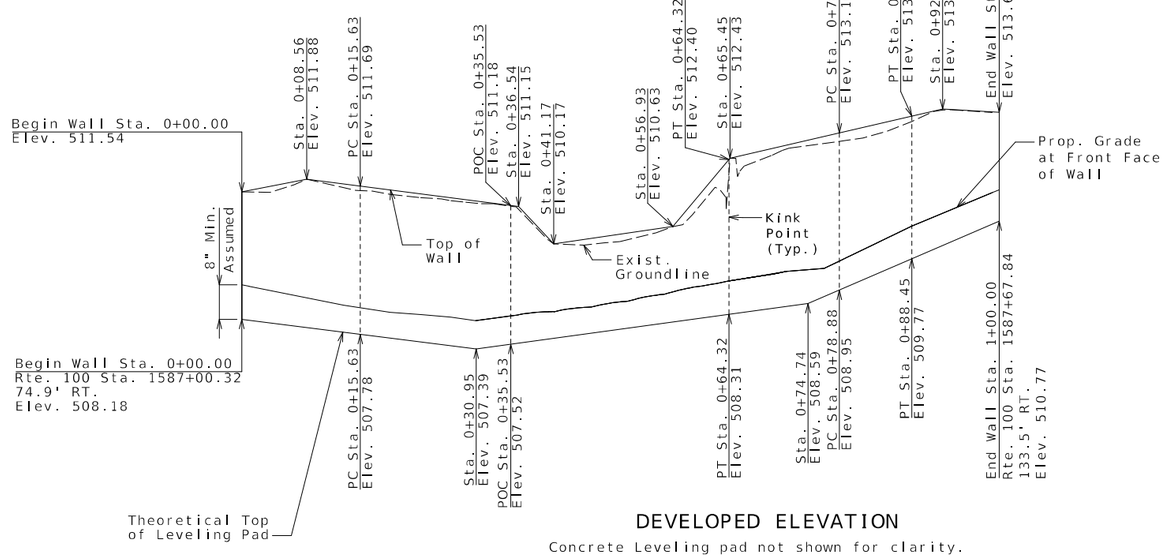
PLAN

Notes:

8" embedment assumed to provide estimate for wall quantity. Embedment to be confirmed by Contractor.

See Plan Sheets for utility and additional proposed work.

Wall stationings and offsets are shown to front face of wall.



DEVELOPED ELEVATION

Concrete Leveling pad not shown for clarity.

General Notes:

Design Specifications:

2020 AASHTO LRFD Bridge Design Specifications (9th Ed.)
2023 AASHTO Guide Specifications for LRFD Seismic Bridge Design (3rd Ed.)
Seismic Design Category = B (Seismic Zone - 2) (No Seismic Analysis)

Design Loading:

For strength limit state, the wall designer to confirm that the minimum Capacity to Demand Ratio (CDR) for bearing, sliding, overturning, eccentricity, and internal stability is greater than or equal to 1.0. MSE wall designer shall include this note on shop drawings.

Φ_f and Unit weight, γ_f for retained backfill material to be retained by the mechanically stabilized earth wall system to be determined by the Contractor.

The maximum applied factored bearing stress for the strength limit state at the foundation level shall be shown on the shop drawings and shall be less than the factored bearing resistance as determined by contractor.

Contractor shall include design Φ_f (actual $\Phi_f \geq 34°$) and the total unit weight, γ_f, for the select granular backfill (reinforced backfill and wedge area backfill) for structural systems on shop drawings. Contractor shall identify source of select granular backfill material, submit proctor in accordance with AASHTO T 99 (ASTM D698) and gradation with the shop drawings. When backfill material is too coarse to develop a proctor curve the contractor shall determine the maximum dry density (relative density) in accordance with ASTM D4253 and ASTM D4254 and assume percent passing the 200 sieve for optimum water content.

Total unit weight, γ_f = (95% compaction) x (maximum dry density) x (1 + optimum water content)

Design Φ_f = 34°for the select granular backfill (reinforced backfill) for structural systems.

No-Seismic-Analysis provisions may be considered for MSE wall design in accordance with LRFD 11.5.4.2.

Design Unit Stresses:

All concrete for leveling pad shall be Class B or B-1 with f'c = 4000 psi.

The minimum compressive strength of concrete for precast modular (drycast and wetcast) block shall be 4,000 psi in accordance with Sec 1052.

Excavation:

Excavation quantities and pay items are given on the roadway plans. Excavation quantities are based on a soil reinforcement length of H where "H" is measured from Top of Leveling Pad to Top of Wall. The soil reinforcement length may vary based upon the wall design selected by the contractor. Plan excavation quantities will be paid regardless of any actual quantities removed based on the soil reinforcement length and design selected.

Miscellaneous:

The MSE wall system shall be built in accordance with Sec 720.

The MSE wall system shall be a drycast modular block or wetcast modular block wall system.

Drycast modular block, wetcast modular block and coping (or capstone) reinforcement shall be epoxy coated.

A filter cloth meeting the requirements for a Separation Geotextile material shall be placed between the select granular backfill for structural systems and the backfill being retained by the mechanically stabilized earth wall system.

The top and bottom elevations are given for a vertical wall. The height of the wall shall be adjusted as necessary to fit the ground slope and the concrete leveling pad shall be adjusted as necessary to account for the wall batter. If a fence is built on an extended gutter, then the height of the wall shall be adjusted further.

The baseline of the wall shown is for a vertical wall. This baseline shall correspond to Elevation 507.39.

The contractor shall be solely responsible to coordinate construction of the wall with bridge and roadway construction and ensure that the bridge and roadway construction, resulting or existing obstructions, shall not impact the construction or performance of the wall. Soil reinforcement shall be designed and placed to avoid damage by pile driving, guardrail post installation, utility and sign foundations. (See Roadway and Bridge plans.)

MSE Wall Systems Data Table

Proprietary Wall Systems		Combination Wall Systems			
Manufacturer	System	Facing Unit Manufacturer	Facing Unit	Geogrid Manufacturer	Geogrid

MSE Wall Systems Data Table is to be completed by MoDOT construction personnel to record the manufacturer of the proprietary wall system or the manufacturers of the combination wall system that was used for constructing the MSE wall.

Wall contractor shall show the following items on the design drawings and/or on the fabricator shop drawings.

1. Leveling pad horizontal.

2. Leveling pad length and step elevations shall be based on wall manufacturer's recommendation. Top of leveling pad elevations shall not be higher than theoretical top of leveling pad elevations shown on these plans.

Estimated Quantities

Item		Total
Mechanically Stabilized Earth Wall Systems	sq. foot	357

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

RETAINING WALL ALONG RIGHT SIDE OF ROUTE 100

ROUTE 100 TO ROUTE 141 NORTHBOUND ON RAMP
ABOUT 3.1 MILES WEST OF I-270
BEGINNING STATION 1587+00.32

SHEET 1 OF 2

WALL DETAIL

ROUTE 100
MANCHESTER ROAD

STATE OF MISSOURI
ALBERT F. REINWART
NUMBER PE-2024008074
PROFESSIONAL ENGINEER

02/06/2025 2:54:09 PM
Albert F. Reinwart
MO PE-2024008074

DATE PREPARED
2/4/2025

US ROUTE	STATE
100	MO
DISTRICT	SHEET NO.
SL	141

COUNTY
ST. LOUIS

JOB NO.
J6P3274

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)

CMT
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Notes for Drycast or Wetcast Modular Block Walls:

(1) Topmost layer of reinforcement shall be fully covered with select granular backfill for structural systems, as approved by the wall manufacturer, before placement of the Separation Geotextile.

(2) Minimum 6" diameter perforated PVC or PE pipe.

Manufacturer shall show drain details on design plans to be submitted as shown on MoDOT MSE wall plans and/or roadway plans.

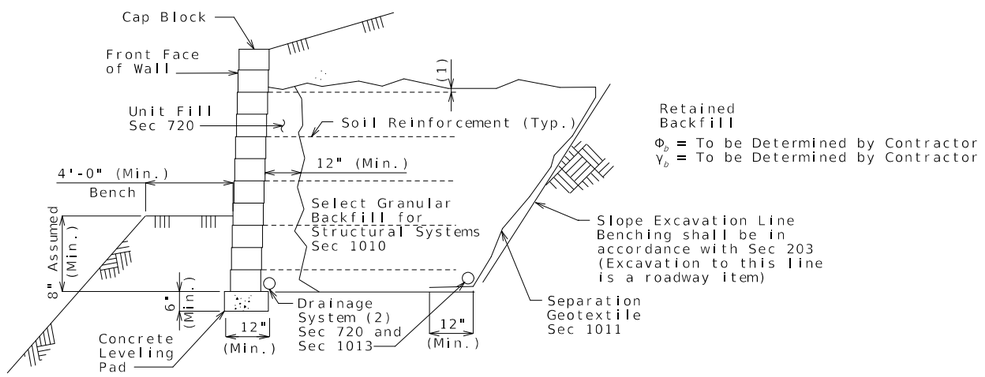
Contractor shall modify the drain details as shown if it will improve flow as may be the case for stepped leveling pad, and for an uneven ground line (approval of the engineer required).

Holes shall be 5/8-inch round and extended 4 inches into the third layer of blocks, recessed 2 inches deep by 1 1/2 inches round.

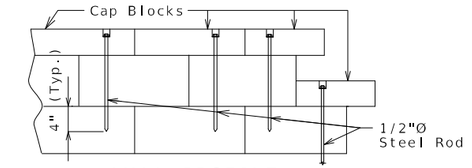
Rods or reinforcing bars shall be secured by an approved resin anchor system in accordance with Sec 1039.

Recess hole shall be backfilled with non-shrink cement grout.

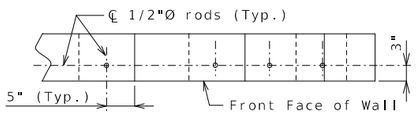
Permanent shims will be sparingly allowed to maintain horizontal and vertical control. The preferable shim shall be made of a plastic material that will not rust, stain, rot or leach onto the concrete and has a minimum compressive strength equal to block wall unit. Steel or wood shims will not be allowed. Shims shall not exceed 3/16 inch in thickness and shall distribute load in order to not induce stress into block wall units. No shim shall be used between the concrete leveling pad and the base course of the block wall.



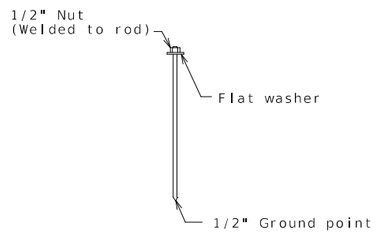
TYPICAL SECTION THRU DRYCAST OR WETCAST MODULAR BLOCK WALL



WALL PROFILE



WALL PLAN



DETAILS OF 1/2" THREADED ROD OR REINFORCING ROD

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

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STATE OF MISSOURI
ALBERT F. REINWART
NUMBER PE-2024008074
PROFESSIONAL ENGINEER

03/27/2025 1:17:13 PM
Albert F. Reinwart
MO PE-2024008074

DATE PREPARED
3/27/2025

US ROUTE	STATE
100	MO

DISTRICT	SHEET NO.
SL	142

COUNTY
ST. LOUIS

JOB NO.
J6P3274

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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SHEET 2 OF 2

WALL DETAIL

ROUTE 100
MANCHESTER ROAD

A9276 PHASE 1 TEMPORARY PAVEMENT WIDENING

SCALE
0 20 40 60

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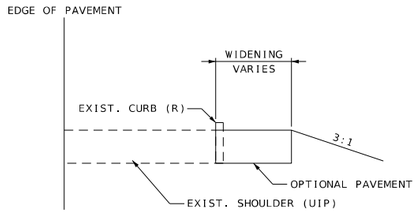
BARRETT PKWY DR
S09°31'04"E
1495
℄ ROUTE 100
STA 1492+30.00
OFF 52.73' RT.
STA 1492+30.00
OFF 54.73' RT.
STA 1495+05.00
OFF 54.47' RT.
STA 1495+05.00
OFF 56.47' RT.
275' EXIST. CURB (R)
EXIST. GUARDRAIL (R)
EXIST. PP (UIP)
EXIST. MH (UIP)
MATCH EXISTING EDGE OF SHOULDER
PROPOSED TEMPORARY WIDENING
EXIST. INLET (UIP)
EXIST. PP (UIP)

WIDENING TYPICAL



PHASE 1
-REMOVE EXIST CURB
-CONSTRUCT NORTH PAVEMENT WIDENING
-CONSTRUCT PROPOSED SOUTH PORTION OF PROPOSED CULVERT A9276

WIDENING

SHEET 1 OF 4

TEMPORARY PAVEMENT DETAILS

MO ROUTE 100
MANCHESTER ROAD

STATE OF MISSOURI
BRIAN D. KIERATH JR.
NUMBER PE-2023008624
PROFESSIONAL ENGINEER
04/02/2025 8:11:00 AM
Brian D. Kierath Jr. - Civil
MO PE-2023008624

DATE PREPARED
4/2/2025

ROUTE	STATE
100	MO
DISTRICT	SHEET NO.
SL	143

COUNTY
ST. LOUIS

JOB NO.
J6P3274

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)

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GEORGE BUTLER ASSOCIATES, INC.
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ARCHITECT 000212
PRO. LAND SURVEYOR 000059

BRIAN KIERATH
PROFESSIONAL ENGINEER
PE-2023008624

REV.

24MSD-00037 : BASEMAPS 22O1, 22O4, 22P2, 22P3, 22P4, 22Q3, 23Q1, 23Q2

c:\bms\gba-pw-01\brian kierath\dms05298\143_SS_06_J6P3274_120.dgn

4/2/2025

A9276 PHASE 2 TEMPORARY PAVEMENT WIDENING

SCALE
0 10 20 30

EXIST. ISLAND (UIP)

STA 1492+91.83
OFF 63.21' LT.

EXIST. GAS VALVE (UIP)

EXIST. ISLAND (R)

PROPOSED TEMPORARY PAVEMENT

EXIST. MODOT ITS PULLBOX (RELOC.)

MATCH EXISTING EDGE OF SHOULDER

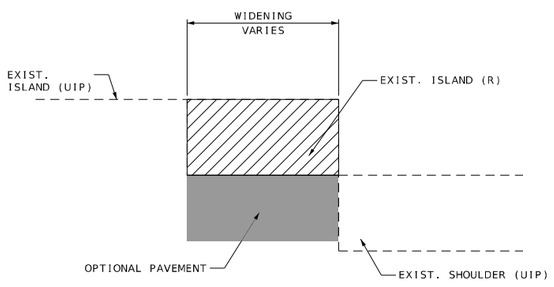
STA 1492+28.21
OFF 32.31' LT.

℄ RTE 100

PHASE 2
-REMOVE EXISTING ISLAND FOR WIDENING
-CONSTRUCT SOUTH PAVEMENT WIDENING
-CONSTRUCT NORTH PORTION OF PROPOSED CULVERT A9276

WIDENING

WIDENING TYPICAL



SHEET 2 OF 4

TEMPORARY PAVEMENT DETAILS

MO ROUTE 100
MANCHESTER ROAD

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STATE OF MISSOURI
BRIAN D. KIERATH JR.
NUMBER PE-2023008624
PROFESSIONAL ENGINEER
04/02/2025 8:11:00 AM
Brian D. Kierath Jr. - Civil
MO PE-2023008624

DATE PREPARED
4/2/2025

ROUTE	STATE
100	MO
DISTRICT	SHEET NO.
SL	144

COUNTY
ST. LOUIS

JOB NO.
J6P3274

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)

GBA
16305 SWINGLEY RIDGE RD
ST. 300
CHESTERFIELD, MO 63017
314.231.0100
GBAteam.com

GEORGE BUTLER
ASSOCIATES, INC.
PRO. ENGINEER 000133
ARCHITECT 000212
PRO. LAND SURVEYOR 000059

BRIAN KIERATH
PROFESSIONAL
ENGINEER
PE-2023008624

A9277 PHASE 1 TEMPORARY PAVEMENT WIDENING

SCALE
0 20 40 60

WIDENING

PHASE 1
-REMOVE EXISTING GUARDRAIL
-CONSTRUCT TEMPORARY PAVEMENT WIDENING
-CONSTRUCT SOUTH PORTION OF PROPOSED CULVERT A9277

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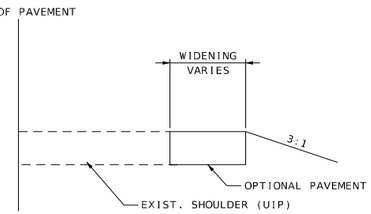
WIDENING TYPICAL



DIETRICH RD
S21°19'09"E
℄ RTE. 100
1525
1530
PT STA 1528+84.87
MATCH EXIST. SHOULDER EDGE
EXIST. GUARDRAIL (R)
PROPOSED TEMPORARY PAVEMENT
STA 1525+56.42 OFF 46.68' RT.
STA 1528+76.70 OFF 46.68' RT.
STA 1528+85.59 OFF 46.68' RT.
STA 1530+23.00 OFF 46.64' RT.
STA 1530+23.00 OFF 39.15' RT.

SHEET 3 OF 4

TEMPORARY PAVEMENT DETAILS

MO ROUTE 100
MANCHESTER ROAD

BRIAN D. KIERATH JR. NUMBER PE-2023008624
PROFESSIONAL ENGINEER
STATE OF MISSOURI
04/02/2025 8:11:00 AM
Brian D. Kierath Jr. - Civil
MO PE-2023008624

DATE PREPARED 4/2/2025
ROUTE 100 | STATE MO
DISTRICT SL | SHEET NO. 145
COUNTY ST. LOUIS
JOB NO. J6P3274
CONTRACT ID.
PROJECT NO.
BRIDGE NO.

REV.	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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GBAteam.com

GEORGE BUTLER ASSOCIATES, INC.
PRO. ENGINEER 000133
ARCHITECT 000212
PRO. LAND SURVEYOR 000059

BRIAN KIERATH
PROFESSIONAL ENGINEER
PE-2023008624

A9277 PHASE 2 TEMPORARY PAVEMENT WIDENING

SCALE
0 20 40 60

WIDENING

1. PHASE 1B
   - CONSTRUCT SOUTH PORTION OF PROPSOED CULVERT A9277
   - CONSTRUCT PROPOSED SOUTH PAVEMENT RECONSTRUCTION
2. PHASE 2B
   - REMOVE EXISTING FEATURES FOR PAVEMENT WIDENING
   - CONSTRUCT PAVEMENT WIDENING
   - CONSTRUCT NORTH PORTION OF PROPOSED CULVERT A9277
3. PHASE 3
   - CONSTRUCT PROPOSED SIDEWALK, CURB, AND DRIVEWAYS ON SOUTH PORTION OF PROPOSED CULVERT A9277

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DATE PREPARED 4/2/2025
ROUTE 100 | STATE MO
DISTRICT SL | SHEET NO. 146
COUNTY ST. LOUIS
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BRIDGE NO.

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PRO. ENGINEER 000133
ARCHITECT 000212
PRO. LAND SURVEYOR 000059

BRIAN KIERATH
PROFESSIONAL ENGINEER
PE-2023008624

REV.

DIETRICH RD
S21°19'09"E

STA 1524+61.96 OFF 45.85' LT.
STA 1525+69.57 OFF 54.58' LT.
STA 1527+22.62 OFF 56.25' LT.
STA 1528+09.62 OFF 54.68' LT.
STA 1528+61.48 OFF 51.52' LT.
STA 1529+01.93 OFF 48.31' LT.
STA 1529+22.21 OFF 46.63' LT.
STA 1523+81.93 OFF 38.65' LT.
STA 1524+16.21 OFF 41.90' LT.
STA 1522+42.76 OFF 56.23' LT.
PT STA 1528+84.81

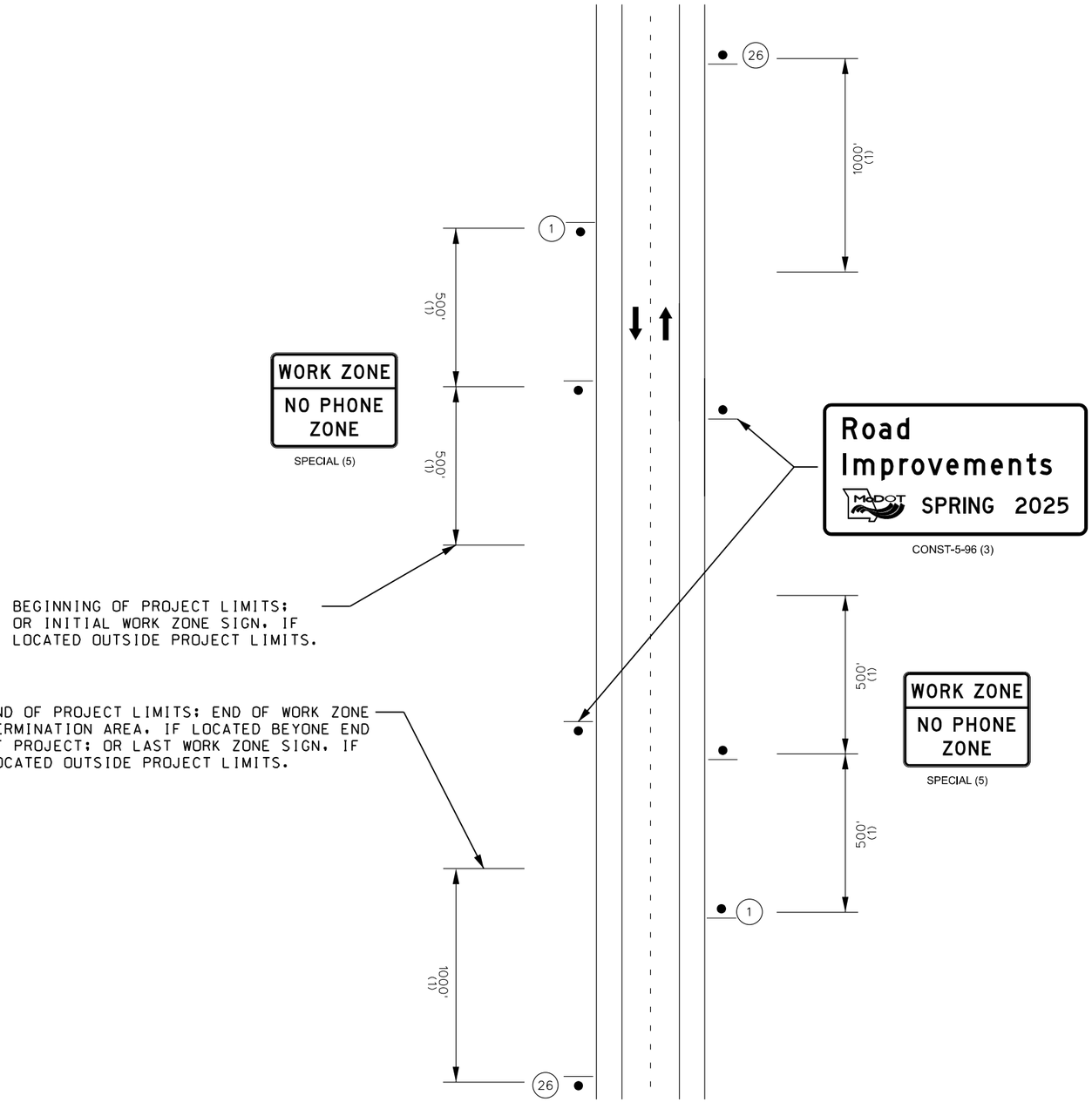
EXIST. ISLAND (UIP)
EXIST. SIGN (RELOC.)
EXIST. ISLAND (R)
MATCH EXIST. SHOULDER
EXIST. SIGN (RELOC.)
MATCH PROPSED SHOULDER EDGE
EXIST. GUARDRAIL (R)
EXIST. INLET (R)
EXIST. PP (UIP)
EXIST. CURB (R)
EXIST. INLET
USE IN PLACE FOR PHASE 2
REPLACE IN PHASE 3
EXIST. CURB (R)

℄ ROUTE 100

SHEET 4 OF 4

TEMPORARY PAVEMENT DETAILS

MO ROUTE 100
MANCHESTER ROAD



BEGIN/END OF PROJECT SIGNING

NOTES:

SIGN (1) IS REQUIRED PER EPG 616.6.56.

SIGN (26) IS USED ON ALL PROJECTS WHERE SIGN (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) SIGN CONST-5-96 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 "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 RIGHT 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.

(5) THE "WORK ZONE NO PHONE ZONE" SIGN IS PLACED 500 FEET BEFORE THE ROAD WORK AHEAD SIGN.

ROAD WORK
NEXT 4 MILES

GO20-1

(1)

END
ROAD WORK

GO20-2

(26)

STATE OF MISSOURI
KENDRA MILLER
NUMBER PE-2014041301
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	
3/28/2025	
MO ROUTE	STATE
100	MO
DISTRICT	SHEET NO.
SL	147
COUNTY	
ST. LOUIS	
JOB NO.	
J6P3274	
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	

DATE	DESCRIPTION

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

105 WEST CAPITOL
JEFFERSON CITY, MO 65102
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PRO. ENGINEER 000133
ARCHITECT 000212
PRO. LAND SURVEYOR 000059

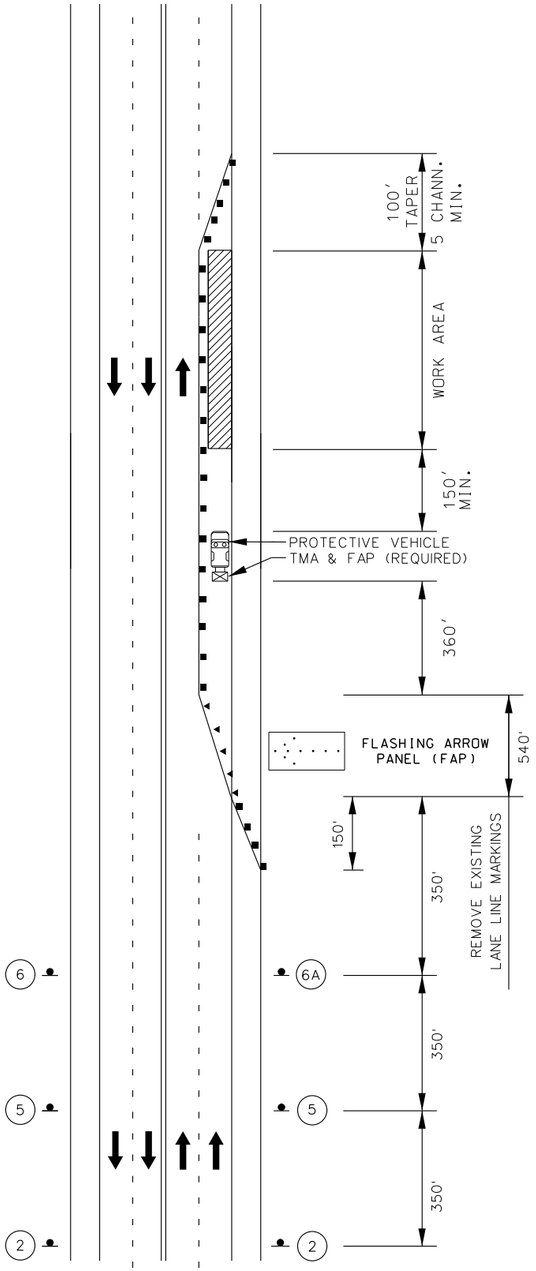
SHEET 1 OF 6

TRAFFIC CONTROL SHEET

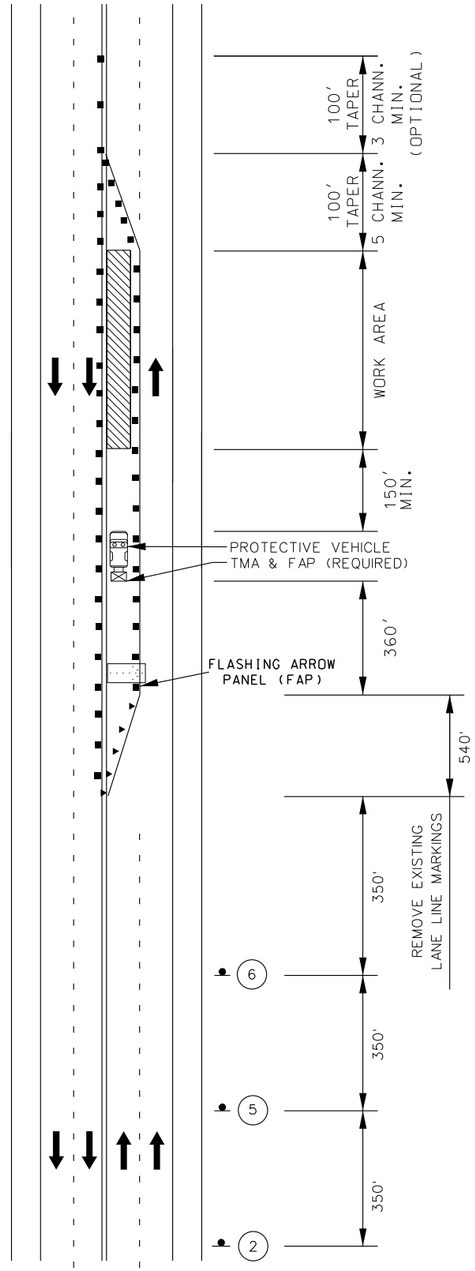
MO ROUTE 100
TYPICAL APPLICATION

KENDRA MILLER
PROFESSIONAL
ENGINEER
PE-2014041301

REV.



OUTSIDE LANE CLOSURE
MULTI-LANE HIGHWAY



INSIDE LANE CLOSURE
MULTI-LANE HIGHWAY

W020-1
(2)

W020-5
(5)

W020-6a
(6)

W04-1aL
(6A)

CHANNELIZERS

DIRECTIONAL INDICATOR BARRICADES

GENERAL NOTES:

(1). CHANNELIZERS WILL BE SPACE AT 40' INTERVALS ALONG THE WORK ZONE AND AT 20' INTERVALS WITHIN TAPERS.

(2). ALWAYS USE A PROTECTIVE VEHICLE WITH A FLASHING ARROW PANEL (FAP) AND A TRUCK/TRAILER MOUNTED ATTENUATOR (TMA).

(3). OPERATE THE FAP IN THE FOUR CORNER OR ALTERNATING DIAMOND CAUTION MODE.

(4). A WORK VEHICLE MAY BE USED AS A PROTECTIVE VEHICLE FOR ROADWAY SEGMENTS POSTED AT 45 MPH OR LESS.

STATE OF MISSOURI
KENDRA MILLER
NUMBER PE-2014041301
PROFESSIONAL ENGINEER

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DATE PREPARED
3/28/2025

MO ROUTE	STATE
100	MO
DISTRICT	SHEET NO.
SL	148

COUNTY
ST. LOUIS

JOB NO.
J6P3274

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DATE	DESCRIPTION	REV.

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JEFFERSON CITY, MO 65102
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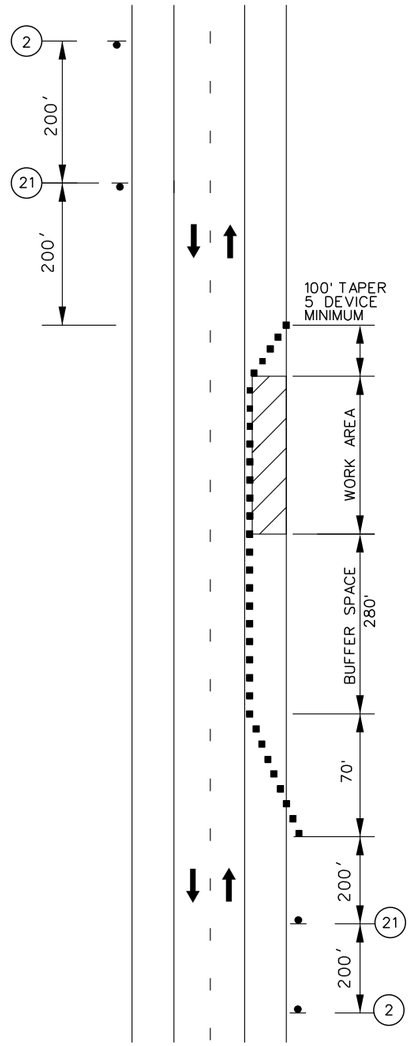
ARCHITECT 000212
PRO. LAND SURVEYOR 000059

SHEET 2 OF 6

TRAFFIC CONTROL SHEET

MO ROUTE 100
TYPICAL APPLICATION

KENDRA MILLER
PROFESSIONAL
ENGINEER
PE-2014041301



WORK ON THE SHOULDER
ON DIVIDED AND UNDIVIDED
HIGHWAYS

NOT TO SCALE

SPEED	SIGN SPACING (ft.)		TAPER LENGTH (ft.)		OPTIONAL	CHANNELIZER SPACING (ft.)	
PERM. POSTED (MPH)	UN -DIVIDED (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)
- CHANNELIZER (TRIM-LINE)
- WORK AREA

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.

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

WHEN PAVED SHOULDERS HAVING A WIDTH OF 8 FEET OR MORE ARE CLOSED, AT LEAST ONE ADVANCE WARNING SIGN SHALL BE USED. IN ADDITION, CHANNELIZING DEVICES SHALL BE USED TO CLOSE THE SHOULDER IN ADVANCE TO DELINEATE THE BEGINNING OF THE WORK SPACE AND DIRECT VEHICULAR TRAFFIC TO REMAIN WITHIN THE TRAVELED WAY.

THE ADVANCED WARNING RAIL SYSTEM IS INSTALLED ON THE ACTIVE FIRST OCCURANCE OF THE ROAD WORK AHEAD (W020-1) AND ROAD CLOSED AHEAD (W020-3) SIGNS ON THE MAINLINE ROADWAY.

STATE OF MISSOURI
KENDRA MILLER
NUMBER PE-2014041301
PROFESSIONAL ENGINEER

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DATE PREPARED
3/28/2025

MO ROUTE	STATE
100	MO
DISTRICT	SHEET NO.
SL	149

COUNTY
ST. LOUIS

JOB NO.
J6P3274

CONTRACT ID.

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BRIDGE NO.

DESCRIPTION	DATE

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GEORGE BUTLER
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PRO. ENGINEER 000133
ARCHITECT 000212
PRO. LAND SURVEYOR 000059

TRAFFIC CONTROL SHEET

MO ROUTE 100
TYPICAL APPLICATION

KENDRA MILLER
PROFESSIONAL
ENGINEER
PE-2014041301

REV.

WO20-1

(2)

BRIDGE
OR
RAMP

WO20-5

(5)

CENTER LANE
OR
LEFT LANE

WO20-6a

(6)

CENTER
OR
LEFT

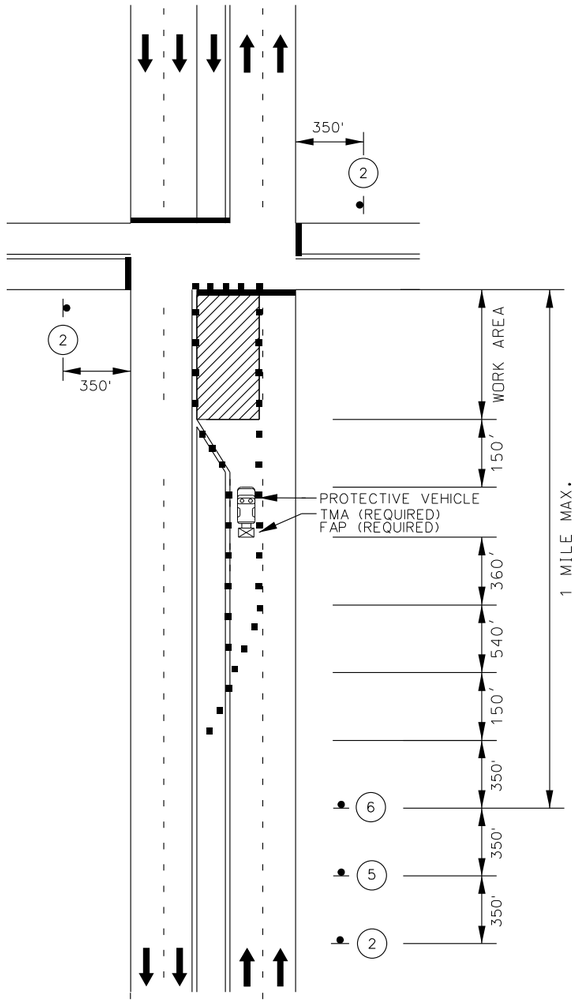
GENERAL NOTES:

(1). ALWAYS USE A PROTECTIVE VEHICLE WITH A FLASHING ARROW PANEL (FAP) AND A TRUCK/TRAILER MOUNTED ATTENUATOR (TMA).

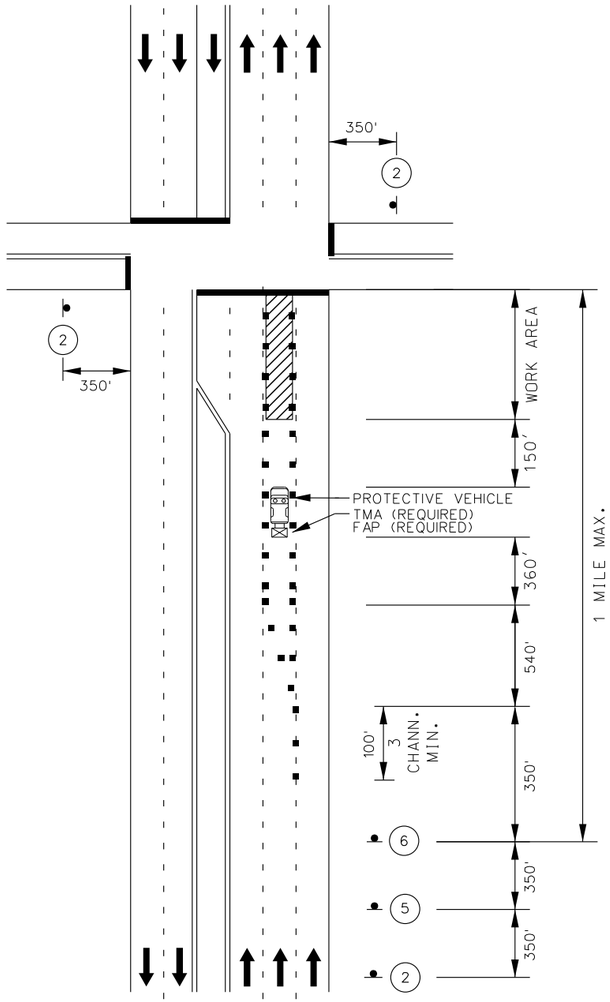
(2). OPERATE THE FAP IN THE FOUR CORNER OR ALTERNATING DIAMOND CAUTION MODE.

(3). A WORK VEHICLE MAY BE USED AS A PROTECTIVE VEHICLE FOR ROADWAY SEGMENTS POSTED AT 45 MPH OR LESS.

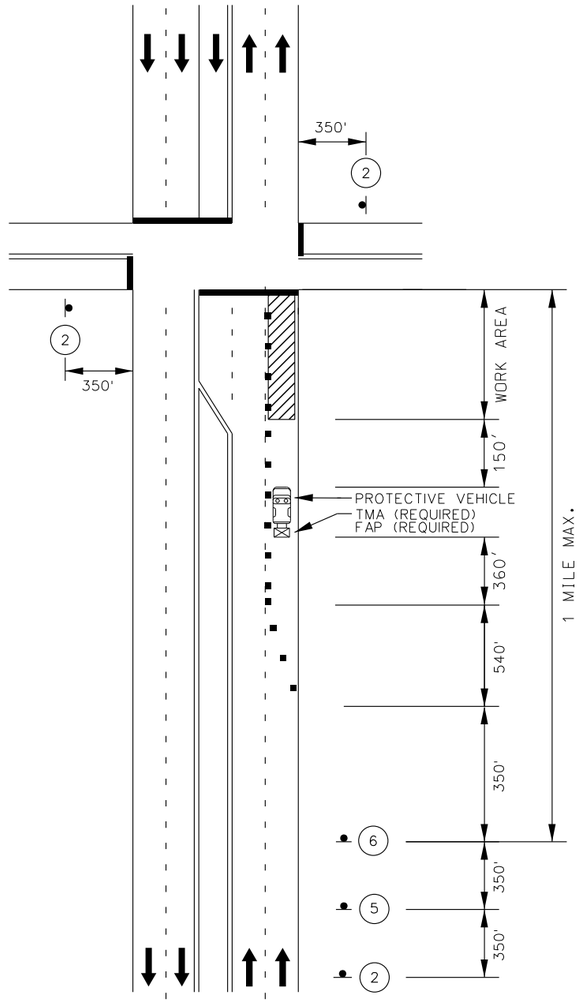
CHANNELIZERS



LEFT LANE CLOSURE
AT INTERSECTION
(NEAR SIDE WORK ZONE)



CENTER LANE CLOSURE
AT INTERSECTION
(NEAR SIDE WORK ZONE)



RIGHT LANE CLOSURE
AT INTERSECTION
(NEAR SIDE WORK ZONE)

SHEET 4 OF 6

TRAFFIC CONTROL SHEET

MO ROUTE 100
TYPICAL APPLICATION

STATE OF MISSOURI
KENDRA MILLER
NUMBER PE-2014041301
PROFESSIONAL ENGINEER

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DATE PREPARED
3/28/2025

MO ROUTE	STATE
100	MO
DISTRICT	SHEET NO.
SL	150

COUNTY
ST. LOUIS

JOB NO.
J6P3274

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

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REV.	DESCRIPTION	DATE

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PRO. LAND SURVEYOR 000059

KENDRA MILLER
PROFESSIONAL
ENGINEER
PE-2014041301

BRIDGE OR RAMP

WO20-1

(2)

CENTER LANE OR LEFT LANE

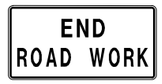
WO20-5

(5)

CENTER OR LEFT

WO20-6a

(6)



GO20-2

(26)

GENERAL NOTES:

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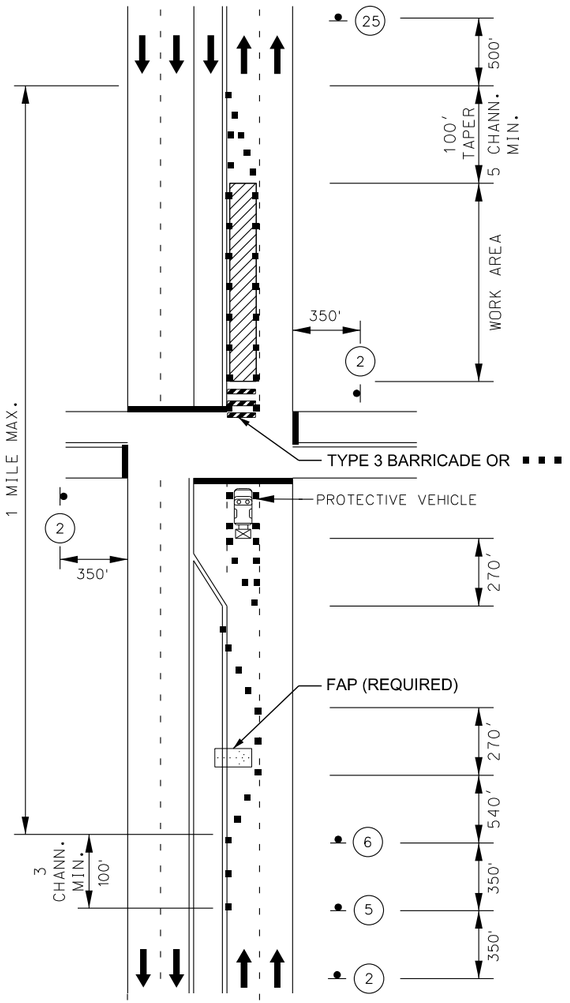
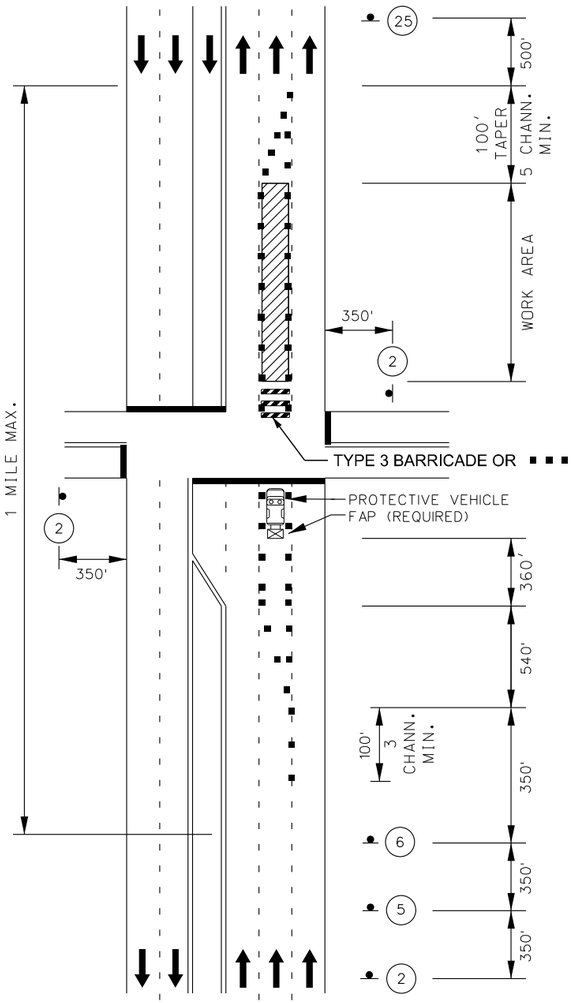
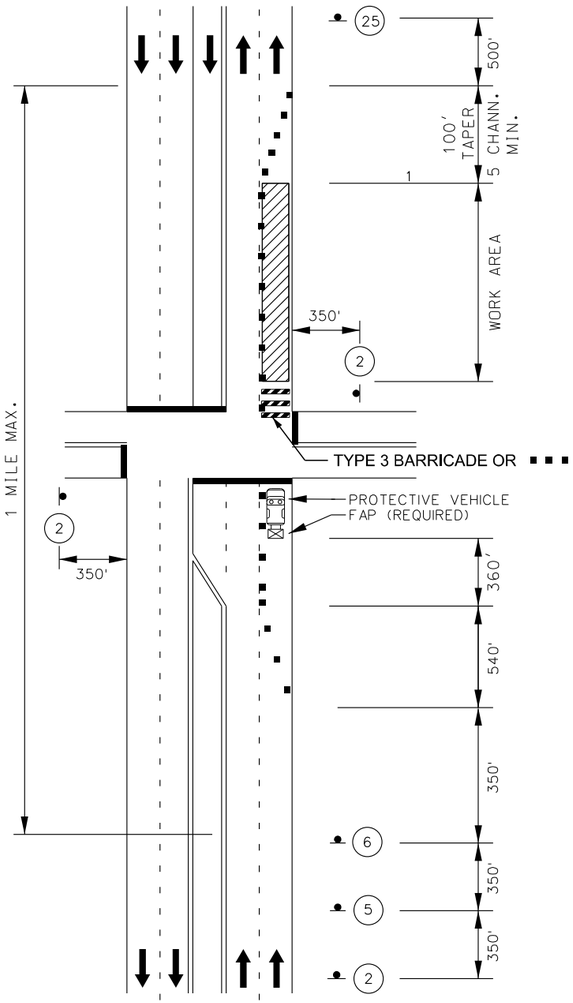
■ ■ ■ ■ ■ CHANNELIZERS



LEFT LANE CLOSURE
AT INTERSECTION
(FAR SIDE WORK ZONE)



CENTER LANE CLOSURE
AT INTERSECTION
(FAR SIDE WORK ZONE)



RIGHT LANE CLOSURE
AT INTERSECTION
(FAR SIDE WORK ZONE)

SHEET 5 OF 6

TRAFFIC CONTROL SHEET

MO ROUTE 100
TYPICAL APPLICATION

STATE OF MISSOURI
KENDRA MILLER
NUMBER PE-2014041301
PROFESSIONAL ENGINEER

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DATE PREPARED	
3/28/2025	
MO ROUTE	STATE
100	MO
DISTRICT	SHEET NO.
SL	151

COUNTY: ST. LOUIS

JOB NO.: J6P3274

CONTRACT ID.:

PROJECT NO.:

BRIDGE NO.:

NO.	DESCRIPTION	DATE
1	ADDED TYPICAL APPLICATION (26)	02/28/2025

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

105 WEST CAPITOL
JEFFERSON CITY, MO 65102
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KENDRA MILLER
PROFESSIONAL ENGINEER
PE-2014041301

REV.

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BRIDGE OR RAMP

WO20-1

(2)

CENTER OR LEFT

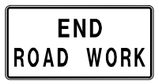
WO20-5a

(5A)

CENTER OR LEFT

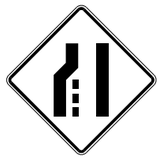
WO20-6a

(6)



GO20-2

(26)



W4-2L

(61A)

W4-2R

(61B)

GENERAL NOTES:

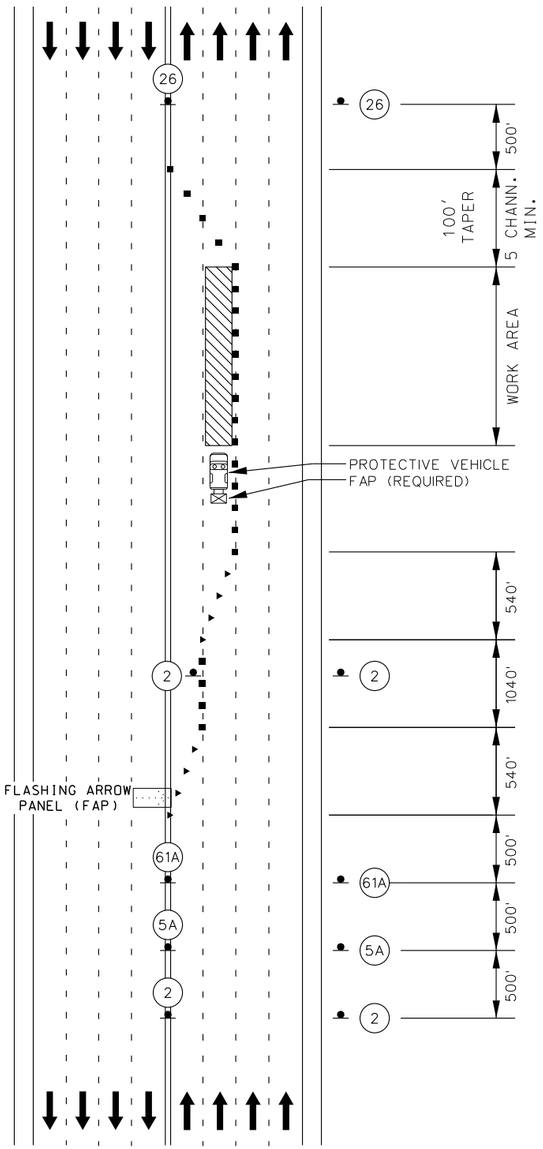
(1). ALWAYS USE A PROTECTIVE VEHICLE WITH A FLASHING ARROW PANEL (FAP) AND A TRUCK/TRAILER MOUNTED ATTENUATOR (TMA).

(2). OPERATE THE FAP IN THE FOUR CORNER OR ALTERNATING DIAMOND CAUTION MODE.

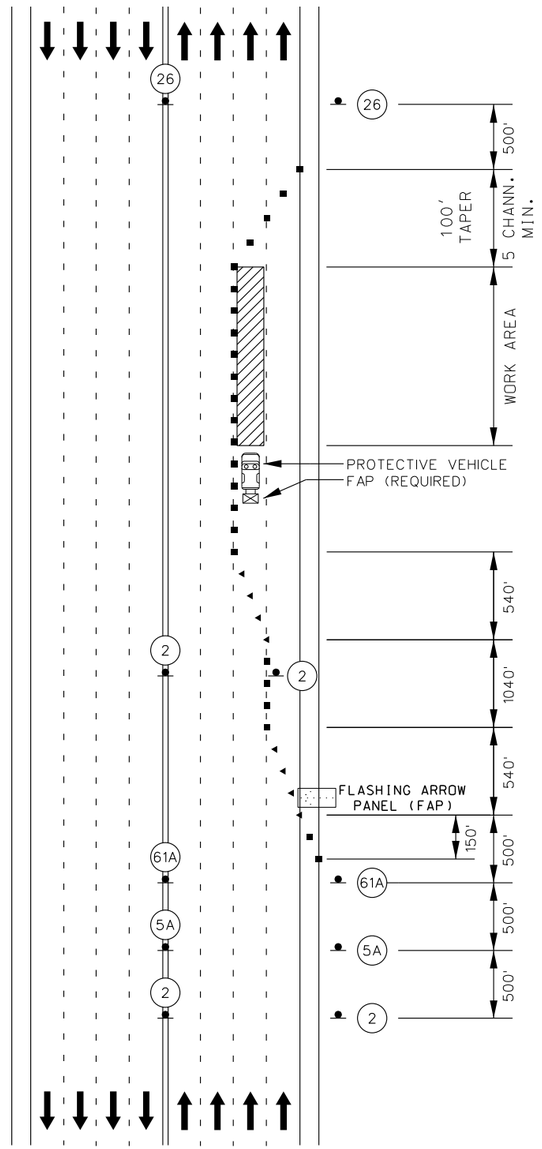
(3). A WORK VEHICLE MAY BE USED AS A PROTECTIVE VEHICLE FOR ROADWAY SEGMENTS POSTED AT 45 MPH OR LESS.

CHANNELIZERS

DIRECTIONAL INDICATOR BARRICADES



DOUBLE LEFT LANE CLOSURE



DOUBLE RIGHT LANE CLOSURE

SHEET 6 OF 6

TRAFFIC CONTROL SHEET

MO ROUTE 100
TYPICAL APPLICATION

STATE OF MISSOURI
KENDRA MILLER
NUMBER PE-2014041301
PROFESSIONAL ENGINEER

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

DATE PREPARED: 3/28/2025

MO ROUTE	STATE
100	MO
DISTRICT	SHEET NO.
SL	152

COUNTY: ST. LOUIS

JOB NO.: J6P3274

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)

GBA
16305 SWINGLEY RIDGE RD
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CHESTERFIELD, MO 63017
314.231.0100
GBAteam.com

GEORGE BUTLER
ASSOCIATES, INC.
PRO. ENGINEER 000133
ARCHITECT 000212
PRO. LAND SURVEYOR 000059

KENDRA MILLER
PROFESSIONAL
ENGINEER
PE-2014041301

REV.

PHASE	BRIDGE	WORK TO BE COMPLETED
A9276 PHASING		
PHASE 1A	A9276	CONSTRUCT TEMPORARY PAVEMENT FOR PHASE 1B WORK
PHASE 1B	A9276	CONSTRUCT IMPROVEMENTS FOR SOUTH PORTION OF A9276
PHASE 2A	A9276	CONSTRUCT TEMPORARY PAVEMENT FOR PHASE 2B WORK
PHASE 2B	A9276	CONSTRUCT IMPROVEMENTS FOR NORTH PORTION OF A9276
PHASE 3	A9276	CONSTRUCT SIDEWALK AND SHOULDER IMPROVEMENTS IN WORK AREA
A9277 PHASING		
PHASE 1A	A9277	CONSTRUCT TEMPORARY PAVEMENT FOR PHASE 1B WORK
PHASE 1B	A9277	CONSTRUCT IMPROVEMENTS FOR NORTH PORTION OF A9277
PHASE 2A	A9277	CONSTRUCT TEMPORARY PAVEMENT FOR PHASE 2B WORK
PHASE 2B	A9277	CONSTRUCT IMPROVEMENTS FOR SOUTH PORTION OF A9277
PHASE 3	A9277	CONSTRUCT SIDEWALK AND SHOULDER IMPROVEMENTS IN WORK AREA

STATE OF MISSOURI
KENDRA MILLER
NUMBER PE-2014041301
PROFESSIONAL ENGINEER

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

DATE PREPARED
3/28/2025

MO ROUTE	STATE
100	MO
DISTRICT	SHEET NO.
SL	153

COUNTY
ST. LOUIS

JOB NO.
J6P3274

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DESCRIPTION	DATE

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ASSOCIATES, INC.
PRO. ENGINEER 000133
ARCHITECT 000212
PRO. LAND SURVEYOR 000059

TRAFFIC CONTROL SHEET

SEQUENCING TABLE

KENDRA MILLER
PROFESSIONAL
ENGINEER
PE-2014041301

REV.

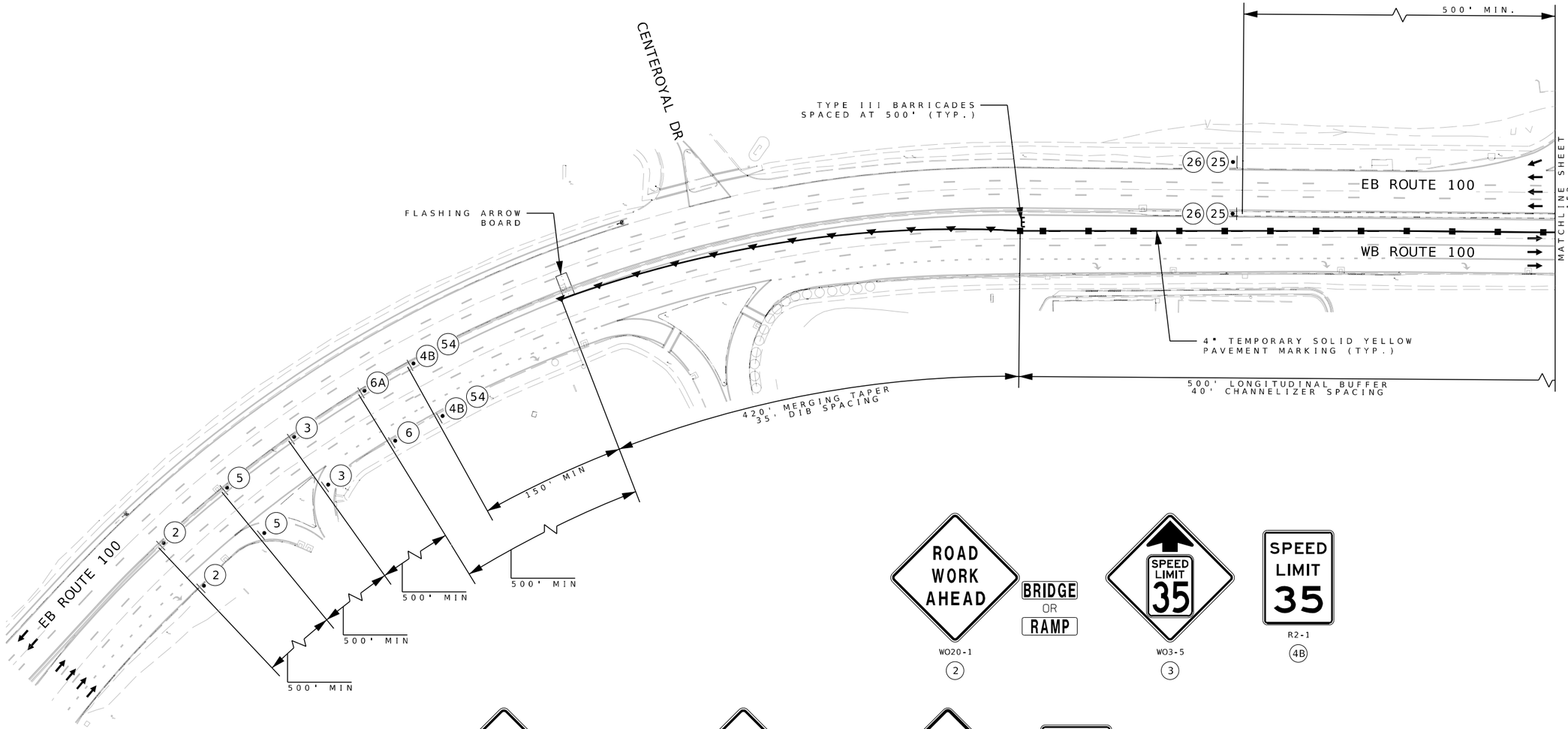
SCALE

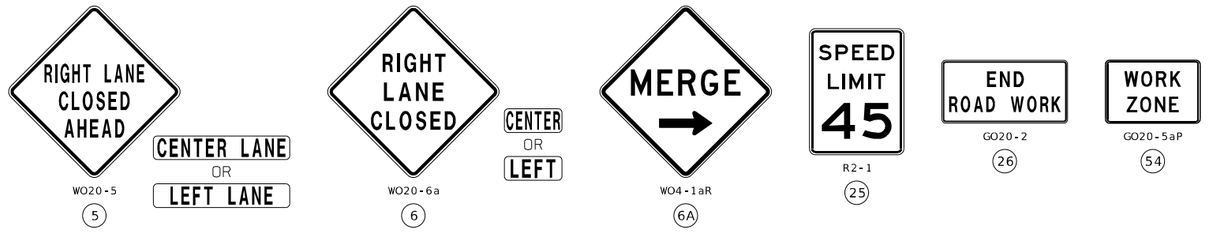
0 50 100 150

TRAFFIC CONTROL LEGEND

- SIGN (SINGLE SIDED)
- SIGN (DOUBLE SIDED)
- FLAGGER
- DIRECTIONAL INDICATOR BARRICADE (DIB) WITH SEQUENTIAL FLASHING WARNING LIGHTS
- CHANNELIZER
- CHANNELIZER
- TYPE III BARRICADE
- TYPE II BARRICADE
- CHANGEABLE MESSAGE BOARD

NOTE: PERMANENT PAVEMENT MARKING CONFLICTING WITH TEMPORARY PAVEMENT MARKING AND TRAFFIC CONTROL INSTALLATION SHALL BE MASKED DURING CONSTRUCTION.





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STATE OF MISSOURI KENDRA MILLER NUMBER PE-2014041301 PROFESSIONAL ENGINEER

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DATE PREPARED 3/28/2025

MO ROUTE	STATE
100	MO
DISTRICT	SHEET NO.
SL	154

COUNTY: ST. LOUIS

JOB NO.: J6P3274

CONTRACT ID.:

PROJECT NO.:

BRIDGE NO.:

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

REV.	DESCRIPTION	DATE

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ARCHITECT 000212
PRO. LAND SURVEYOR 000059

SHEET 1 OF 3

TRAFFIC CONTROL SHEET

MO ROUTE 100
TRAFFIC CONTROL PLAN
A9276 PHASE 1

KENDRA MILLER
PROFESSIONAL ENGINEER
PE-2014041301

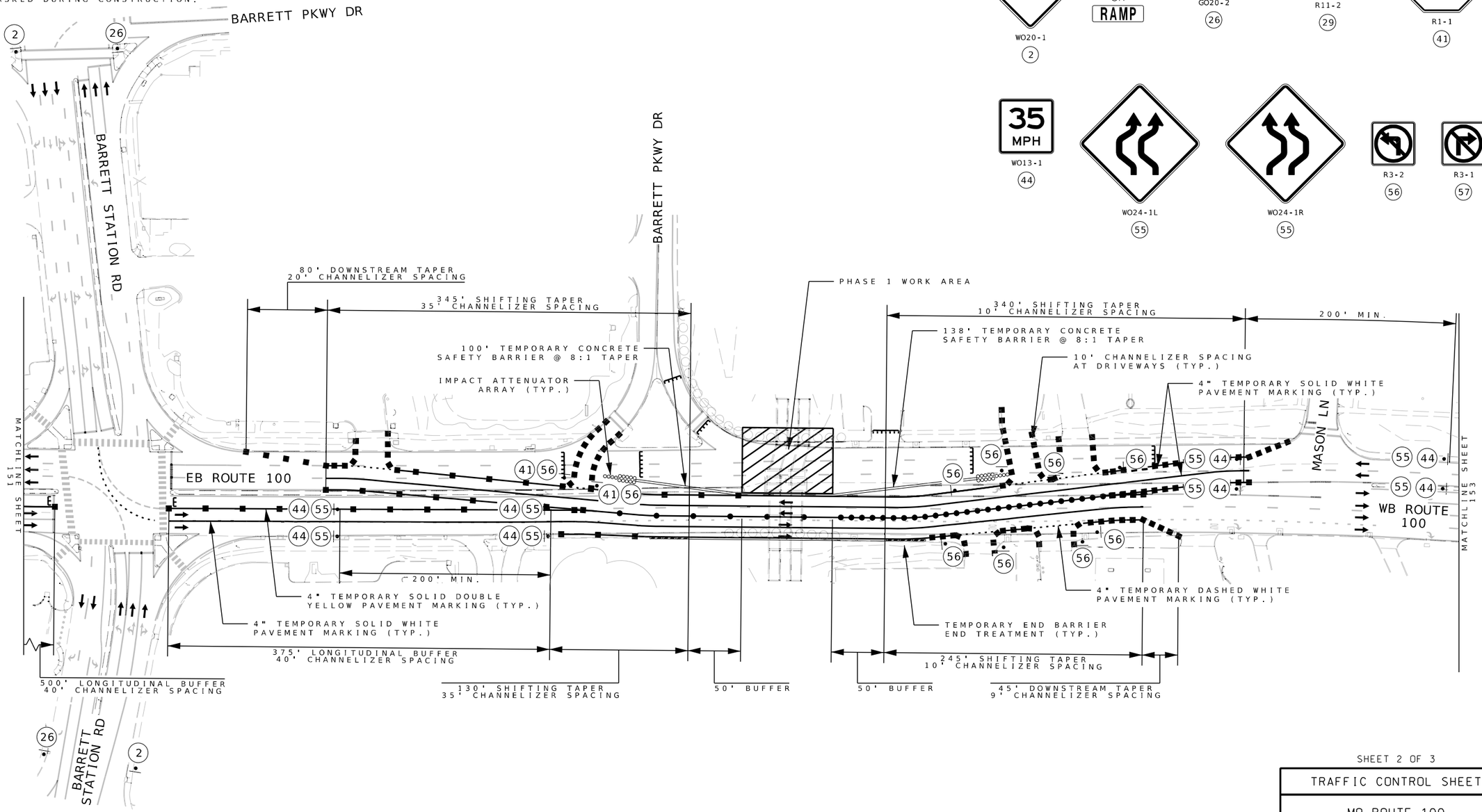
SCALE

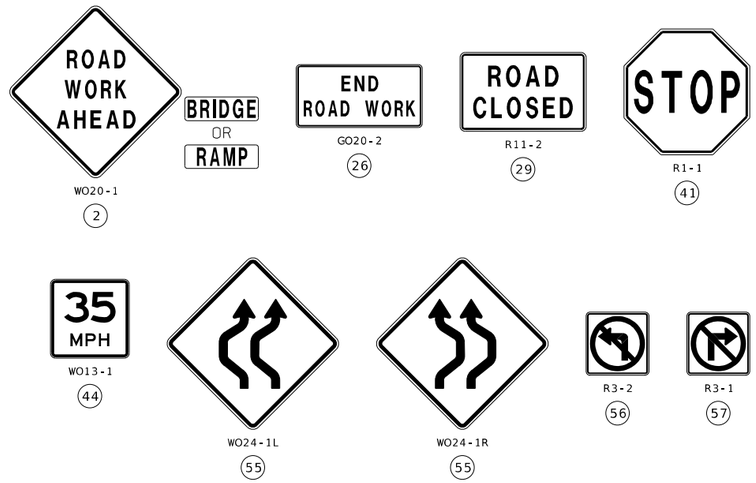
0 50 100 150

TRAFFIC CONTROL LEGEND

- SIGN (SINGLE SIDED)
- SIGN (DOUBLE SIDED)
- FLAGGER
- DIRECTIONAL INDICATOR BARRICADE (DIB) WITH SEQUENTIAL FLASHING WARNING LIGHTS
- CHANNELIZER
- CHANNELIZER
- TYPE III BARRICADE
- TYPE II BARRICADE
- CHANGEABLE MESSAGE BOARD

NOTE: PERMANENT PAVEMENT MARKING CONFLICTING WITH TEMPORARY PAVEMENT MARKING AND TRAFFIC CONTROL INSTALLATION SHALL BE MASKED DURING CONSTRUCTION.





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STATE OF MISSOURI KENDRA MILLER NUMBER PE-2014041301 PROFESSIONAL ENGINEER

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

DATE PREPARED 3/28/2025

MO ROUTE	STATE
100	MO
DISTRICT	SHEET NO.
SL	155

COUNTY: ST. LOUIS

JOB NO.: J6P3274

CONTRACT ID.:

PROJECT NO.:

BRIDGE NO.:

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

REV.	DESCRIPTION	DATE

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105 WEST CAPITOL
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314.231.0100
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ARCHITECT 000212
PRO. LAND SURVEYOR 000059

SHEET 2 OF 3

TRAFFIC CONTROL SHEET

MO ROUTE 100
TRAFFIC CONTROL PLAN
A9276 PHASE 1

KENDRA MILLER
PROFESSIONAL ENGINEER
PE-2014041301

SCALE

0 50 100 150

TRAFFIC CONTROL LEGEND

- SIGN (SINGLE SIDED)
- SIGN (DOUBLE SIDED)
- FLAGGER
- DIRECTIONAL INDICATOR BARRICADE (DIB) WITH SEQUENTIAL FLASHING WARNING LIGHTS
- CHANNELIZER
- CHANNELIZER
- TYPE III BARRICADE
- TYPE II BARRICADE
- CHANGEABLE MESSAGE BOARD

NOTE: PERMANENT PAVEMENT MARKING CONFLICTING WITH TEMPORARY PAVEMENT MARKING AND TRAFFIC CONTROL INSTALLATION SHALL BE MASKED DURING CONSTRUCTION.

WO20-1

(2)

WO3-5

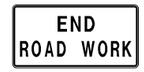
(3)

R2-1

(4B)

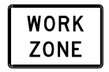
R2-1

(25)



GO20-2

(26)



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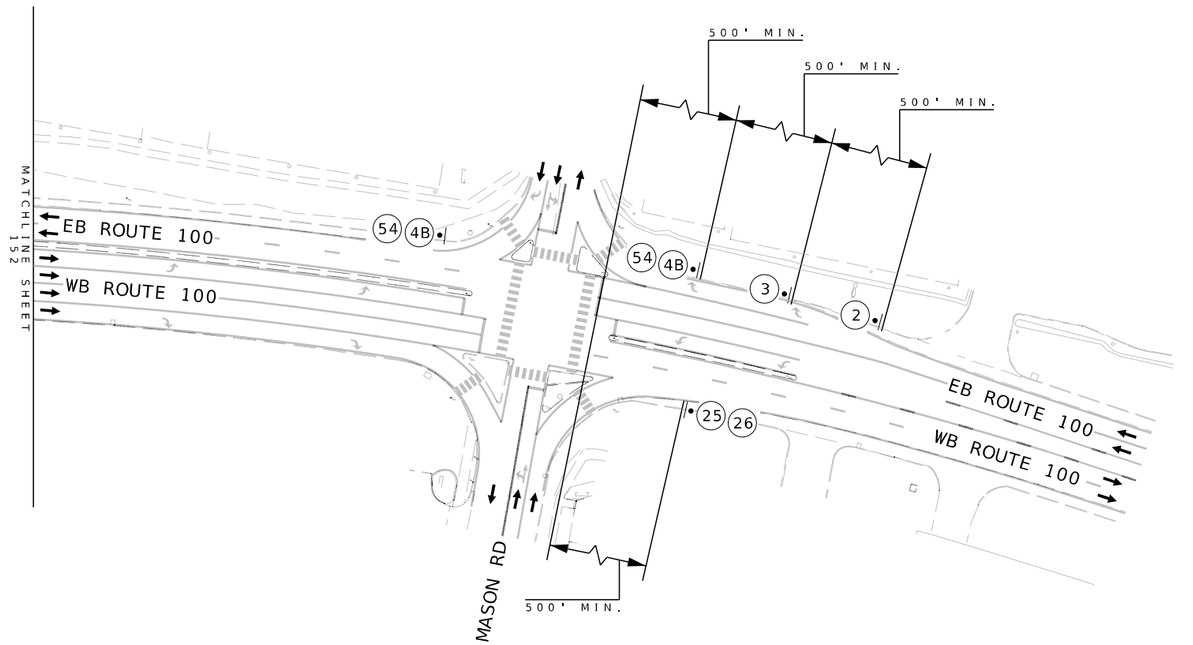
(54)



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STATE OF MISSOURI
KENDRA MILLER
NUMBER PE-2014041301
PROFESSIONAL ENGINEER

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

DATE PREPARED
3/28/2025

MO ROUTE	STATE
100	MO
DISTRICT	SHEET NO.
SL	156

COUNTY
ST. LOUIS

JOB NO.
J6P3274

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

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

DESCRIPTION	DATE	REV.

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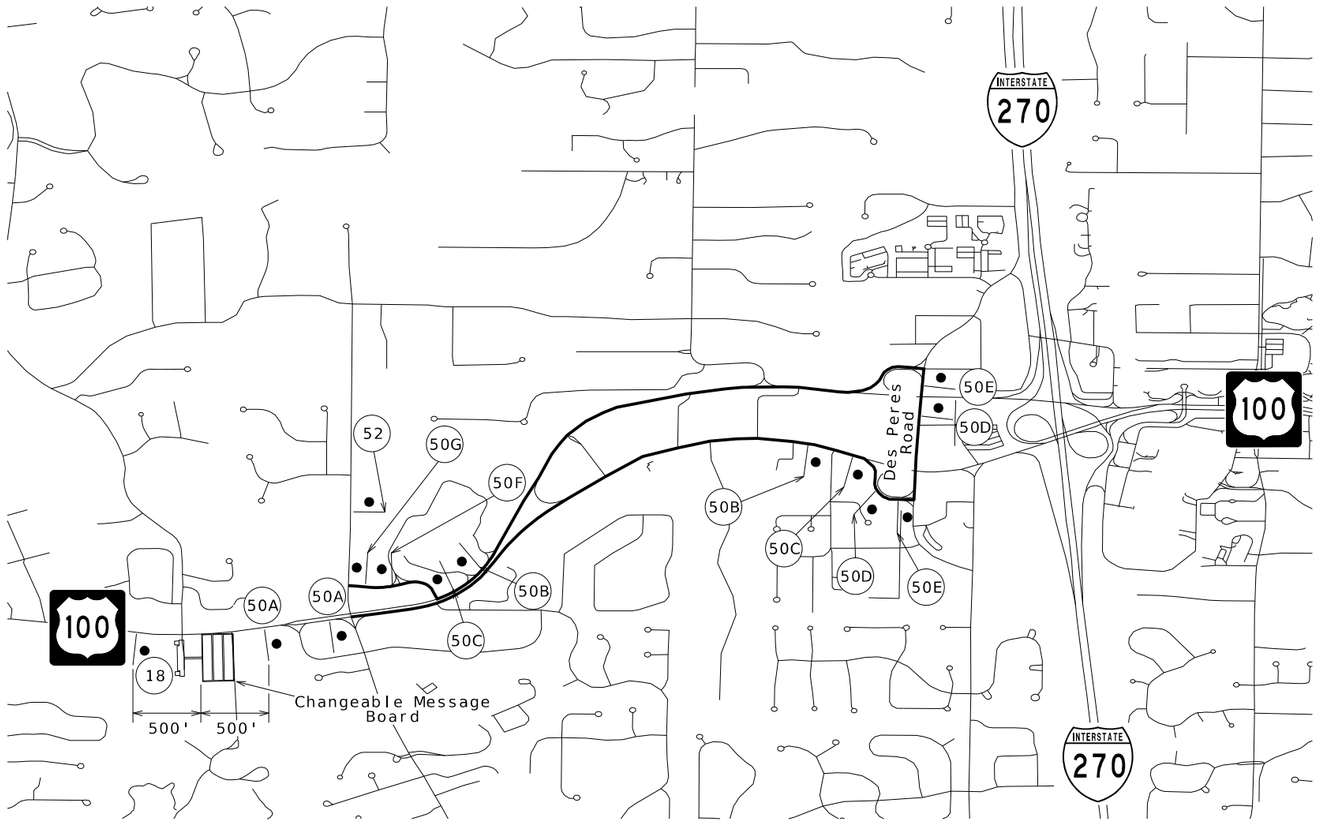
PRO. LAND SURVEYOR 000059

KENDRA MILLER
PROFESSIONAL
ENGINEER
PE-2014041301

SHEET 3 OF 3

TRAFFIC CONTROL SHEET

MO ROUTE 100
TRAFFIC CONTROL PLAN
A9276 PHASE 1



WO20-2

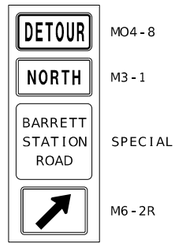
18

MO4-8
M3-1
SPECIAL
M6-3

50A

MO4-8
M3-1
SPECIAL
M5-2R

50B



MO4-8
M3-1
SPECIAL
M6-2R

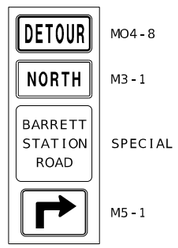
50C

MO4-8
M3-1
SPECIAL
M5-1L

50D

MO4-8
M3-1
SPECIAL
M6-1L

50E



MO4-8
M3-1
SPECIAL
M5-1

50F

MO4-8
M3-1
SPECIAL
M6-1

50G

MO4-8a

52

TYPE III
MOVEABLE BARRICADE

CHANGEABLE
MESSAGE BOARD

GENERAL NOTE

Changeable Message Board
shall display: Ramp Closure Ahead

TRAFFIC CONTROL SHEET

DETOUR SHEET
BARRETT STATION ROAD

STATE OF MISSOURI
KENDRA MILLER
NUMBER PE-2014041301
PROFESSIONAL ENGINEER

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

DATE PREPARED
3/28/2025

MO ROUTE	STATE
100	MO
DISTRICT	SHEET NO.
SL	157

COUNTY
ST. LOUIS

JOB NO.
J6P3274

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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CHESTERFIELD, MO 63017
314.231.0100
GBAteam.com

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ASSOCIATES, INC.
PRO. ENGINEER 000133
ARCHITECT 000212
PRO. LAND SURVEYOR 000059

KENDRA MILLER
PROFESSIONAL
ENGINEER
PE-2014041301

REV.

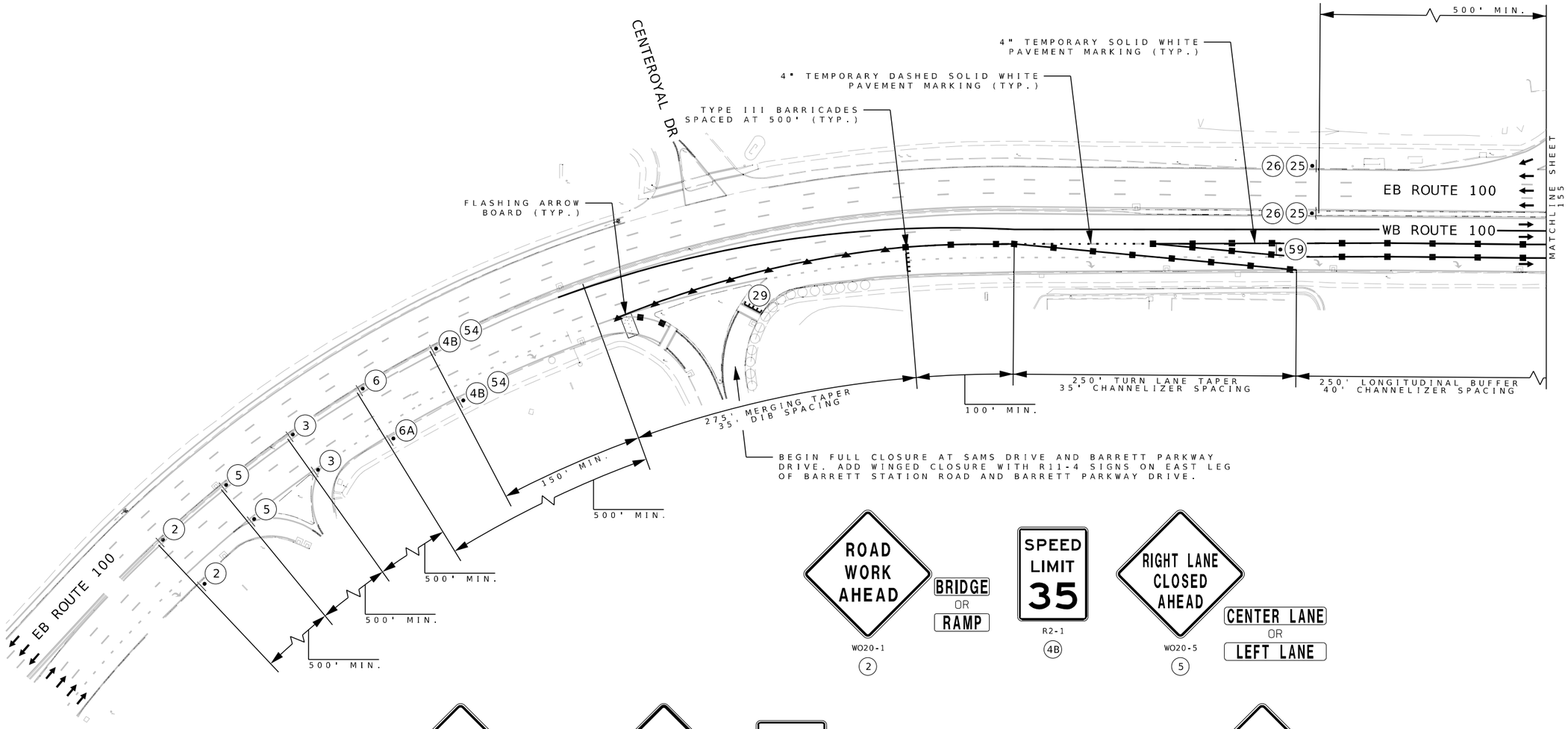
SCALE

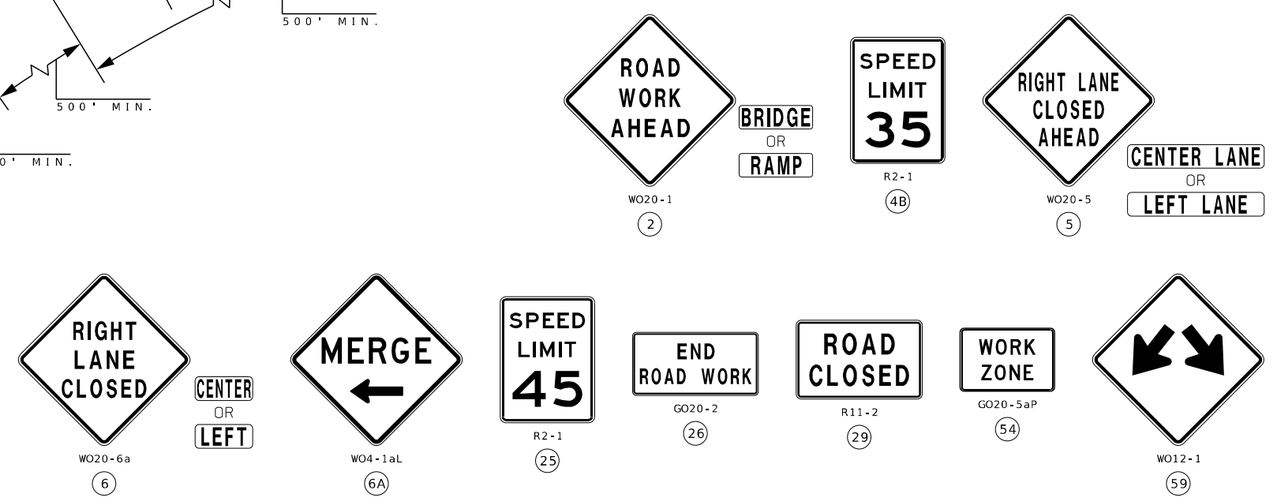
0 50 100 150

TRAFFIC CONTROL LEGEND

- SIGN (SINGLE SIDED)
- SIGN (DOUBLE SIDED)
- FLAGGER
- DIRECTIONAL INDICATOR BARRICADE (DIB) WITH SEQUENTIAL FLASHING WARNING LIGHTS
- CHANNELIZER
- CHANNELIZER
- TYPE III BARRICADE
- TYPE II BARRICADE
- CHANGEABLE MESSAGE BOARD

NOTE: PERMANENT PAVEMENT MARKING CONFLICTING WITH TEMPORARY PAVEMENT MARKING AND TRAFFIC CONTROL INSTALLATION SHALL BE MASKED DURING CONSTRUCTION.





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STATE OF MISSOURI KENDRA MILLER NUMBER PE-2014041301 PROFESSIONAL ENGINEER

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DATE PREPARED 3/28/2025

MO ROUTE	STATE
100	MO
DISTRICT	SHEET NO.
SL	158

COUNTY: ST. LOUIS

JOB NO.: J6P3274

CONTRACT ID.:

PROJECT NO.:

BRIDGE NO.:

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

REV.	DESCRIPTION	DATE

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

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ARCHITECT 000212
PRO. LAND SURVEYOR 000059

SHEET 1 OF 3

TRAFFIC CONTROL SHEET

MO ROUTE 100
TRAFFIC CONTROL PLAN
A9276 PHASE 2

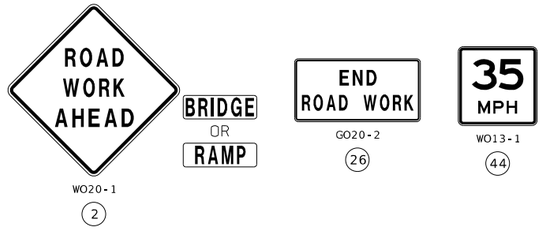
KENDRA MILLER
PROFESSIONAL ENGINEER
PE-2014041301

SCALE

0 50 100 150

TRAFFIC CONTROL LEGEND

- SIGN (SINGLE SIDED)
- SIGN (DOUBLE SIDED)
- FLAGGER
- DIRECTIONAL INDICATOR BARRICADE (DIB) WITH SEQUENTIAL FLASHING WARNING LIGHTS
- CHANNELIZER
- CHANNELIZER
- TYPE III BARRICADE
- TYPE II BARRICADE
- CHANGEABLE MESSAGE BOARD



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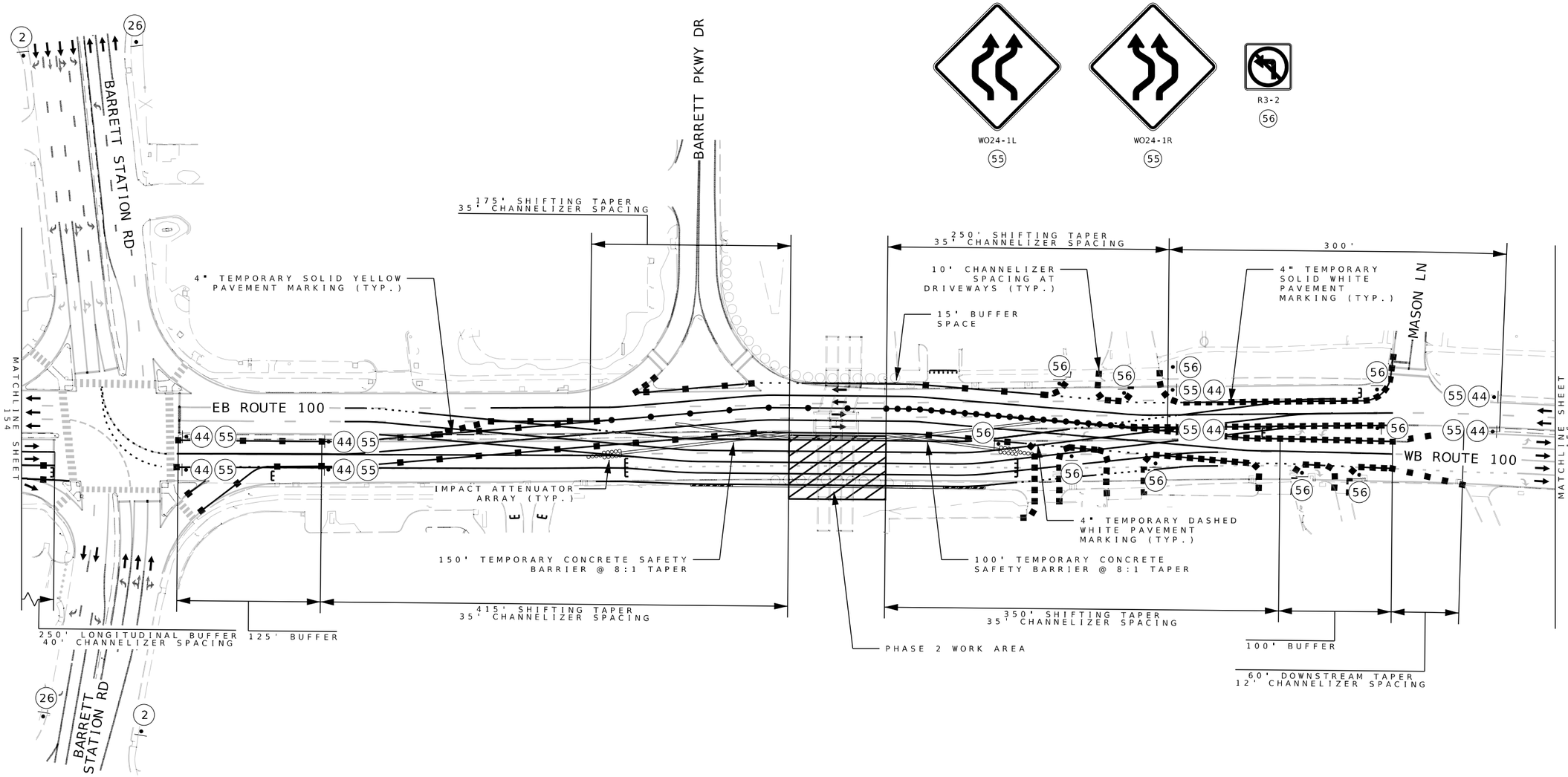

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SHEET 2 OF 3

TRAFFIC CONTROL SHEET

MO ROUTE 100
TRAFFIC CONTROL PLAN
A9276 PHASE 2

STATE OF MISSOURI
KENDRA MILLER
NUMBER PE-2014041301
PROFESSIONAL ENGINEER

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

DATE PREPARED: 3/28/2025

MO ROUTE	STATE
100	MO
DISTRICT	SHEET NO.
SL	159

COUNTY: ST. LOUIS

JOB NO.: J6P3274

CONTRACT ID.:

PROJECT NO.:

BRIDGE NO.:

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REV.	DESCRIPTION	DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
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CHESTERFIELD, MO 63017
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PRO. ENGINEER 000133
ARCHITECT 000212
PRO. LAND SURVEYOR 000059

KENDRA MILLER
PROFESSIONAL ENGINEER
PE-2014041301

SCALE

0 50 100 150

TRAFFIC CONTROL LEGEND

- SIGN (SINGLE SIDED)
- SIGN (DOUBLE SIDED)
- FLAGGER
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- CHANNELIZER
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- TYPE II BARRICADE
- CHANGEABLE MESSAGE BOARD

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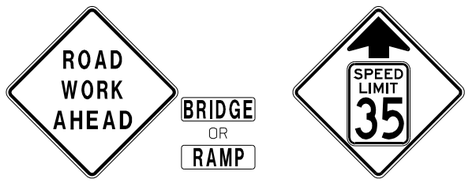


WO20-1

(2)

WO3-5

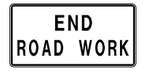
(3)

R2-1

(4B)

R2-1

(25)

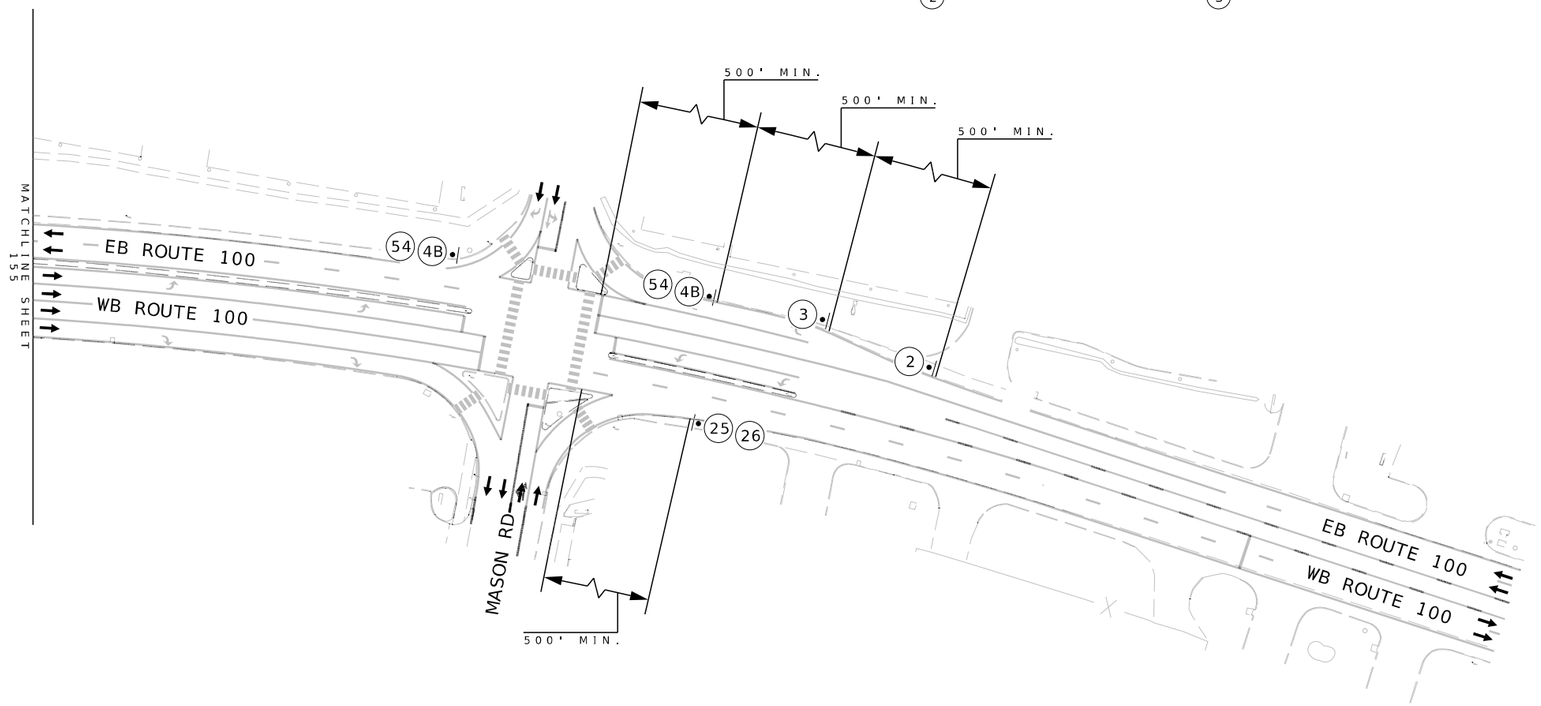


GO20-2

(26)

GO20-5aP

(54)



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STATE OF MISSOURI
KENDRA MILLER
NUMBER PE-2014041301
PROFESSIONAL ENGINEER

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

DATE PREPARED
3/28/2025

MO ROUTE	STATE
100	MO
DISTRICT	SHEET NO.
SL	160

COUNTY
ST. LOUIS

JOB NO.
J6P3274

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)

GBA

16305 SWINGLEY RIDGE RD
ST. 300
CHESTERFIELD, MO 63017
314.231.0100
GBAteam.com

GEORGE BUTLER ASSOCIATES, INC.
PRO. ENGINEER 000133
ARCHITECT 000212
PRO. LAND SURVEYOR 000059

SHEET 3 OF 3

TRAFFIC CONTROL SHEET

MO ROUTE 100
TRAFFIC CONTROL PLAN
A9276 PHASE 2

KENDRA MILLER
PROFESSIONAL ENGINEER
PE-2014041301

REV.

XXMSD-XXXXX, BASEMAPS 25-26N, 25M, 24-25K, 23-24J

c:*bms*gba-pw-01*regan hutchinson*dms05308*160_TC_13_J6P3274_i50_RTE100.dgn

3/28/2025

SCALE

0 50 100 150

TRAFFIC CONTROL LEGEND

- SIGN (SINGLE SIDED)
- SIGN (DOUBLE SIDED)
- FLAGGER
- DIRECTIONAL INDICATOR BARRICADE (DIB) WITH SEQUENTIAL FLASHING WARNING LIGHTS
- CHANNELIZER
- CHANNELIZER
- TYPE III BARRICADE
- TYPE II BARRICADE
- CHANGEABLE MESSAGE BOARD

NOTE: PERMANENT PAVEMENT MARKING CONFLICTING WITH TEMPORARY PAVEMENT MARKING AND TRAFFIC CONTROL INSTALLATION SHALL BE MASKED DURING CONSTRUCTION.

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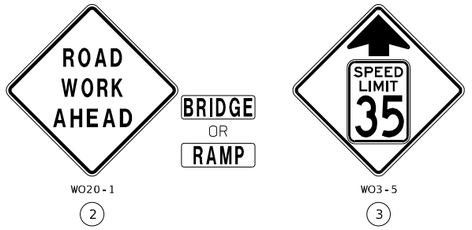
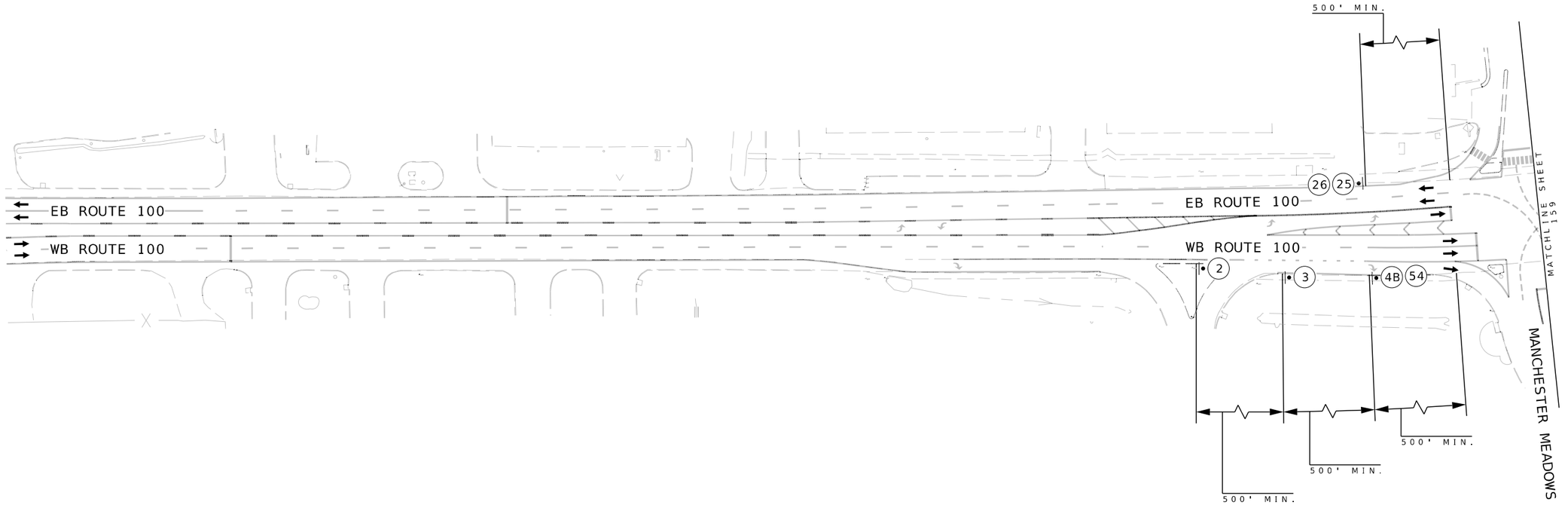


WO20-1 (2) | WO3-5 (3) | R2-1 (4B) | R2-1 (25) | GO20-2 (26) | GO20-5aP (54)



SHEET 1 OF 3

TRAFFIC CONTROL SHEET

MO ROUTE 100
TRAFFIC CONTROL PLAN
A9277 PHASE 1

KENDRA MILLER
PROFESSIONAL ENGINEER
PE-2014041301

STATE OF MISSOURI
KENDRA MILLER
NUMBER PE-2014041301
PROFESSIONAL ENGINEER

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

DATE PREPARED
3/28/2025

MO ROUTE	STATE
100	MO
DISTRICT	SHEET NO.
SL	161

COUNTY
ST. LOUIS

JOB NO.
J6P3274

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
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ARCHITECT 000212
PRO. LAND SURVEYOR 000059

XXMSD-XXXXX, BASEMAPS 25-26N, 25M, 24-25K, 23-24J

c:*bms*gba-pw-01*regan hutchinson*dms05308*161_TC_14_J6P3274_i50_RTE100.dgn

3/28/2025

SCALE

0 50 100 150

TRAFFIC CONTROL LEGEND

- SIGN (SINGLE SIDED)
- SIGN (DOUBLE SIDED)
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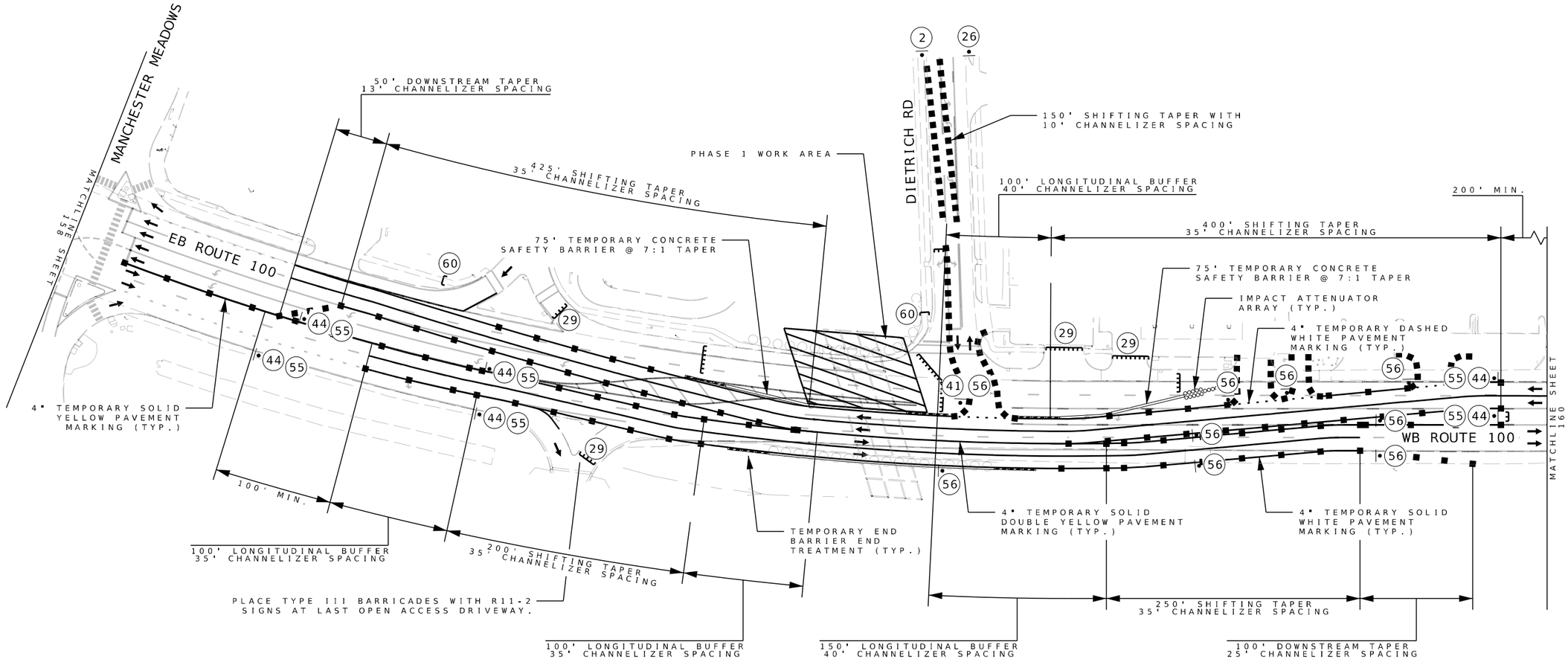
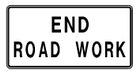


WO20-1
(2)



GO20-2
(26)

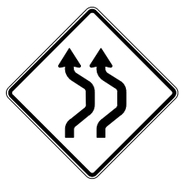
R11-2
(29)

R1-1
(41)

WO13-1
(44)

GO20-5aP
(54)

WO24-1L
(55)


WO24-1R
(55)

R3-2
(56)

R9-9
(60)

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KENDRA MILLER
NUMBER PE-2014041301
PROFESSIONAL ENGINEER

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DATE PREPARED
3/28/2025

MO ROUTE	STATE
100	MO
DISTRICT	SHEET NO.
SL	162

COUNTY
ST. LOUIS

JOB NO.
J6P3274

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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PRO. ENGINEER 000133
ARCHITECT 000212
PRO. LAND SURVEYOR 000059

SHEET 2 OF 3

TRAFFIC CONTROL SHEET

MO ROUTE 100
TRAFFIC CONTROL PLAN
A9277 PHASE 1

KENDRA MILLER
PROFESSIONAL ENGINEER
PE-2014041301

REV.

SCALE

0 50 100 150

TRAFFIC CONTROL LEGEND

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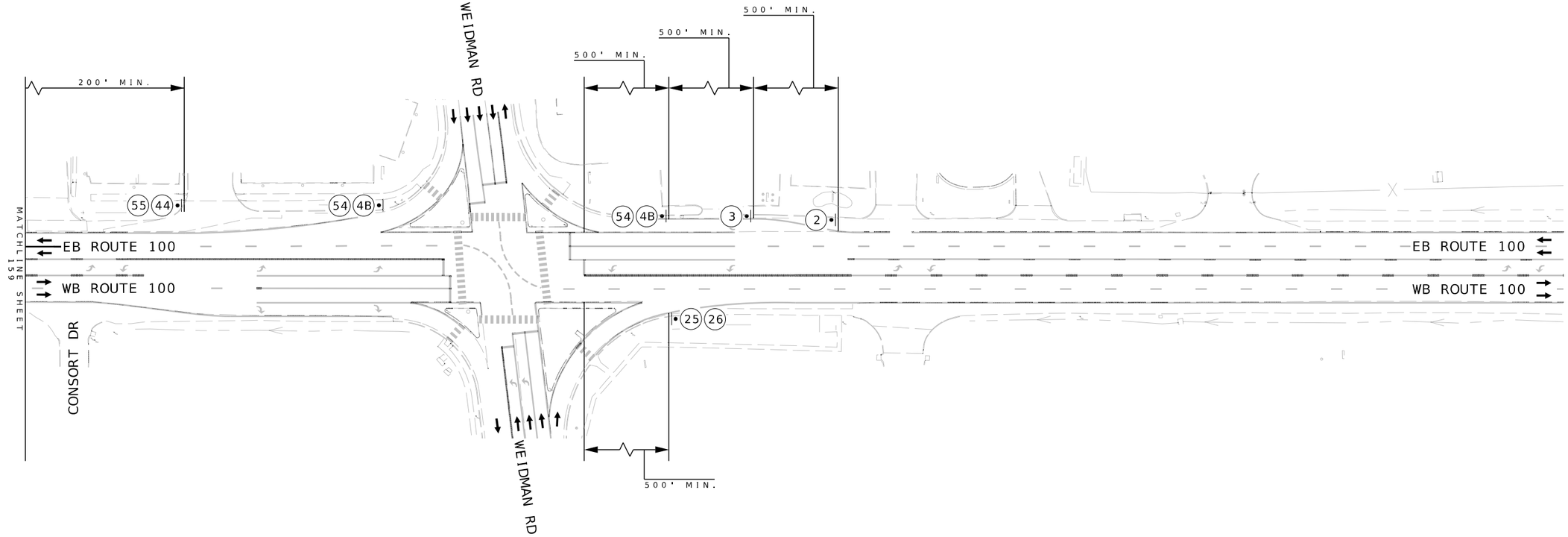

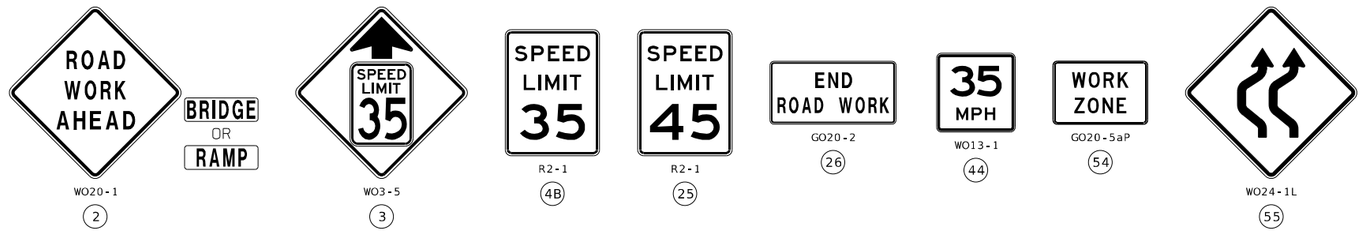

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KENDRA MILLER
NUMBER PE-2014041301
PROFESSIONAL ENGINEER

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DATE PREPARED
3/28/2025

MO ROUTE	STATE
100	MO
DISTRICT	SHEET NO.
SL	163

COUNTY
ST. LOUIS

JOB NO.
J6P3274

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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GBAteam.com

GEORGE BUTLER ASSOCIATES, INC.
PRO. ENGINEER 000133
ARCHITECT 000212
PRO. LAND SURVEYOR 000059

SHEET 3 OF 3

TRAFFIC CONTROL SHEET

MO ROUTE 100
TRAFFIC CONTROL PLAN
A9277 PHASE 1

KENDRA MILLER
PROFESSIONAL ENGINEER
PE-2014041301

REV.

SCALE

0 50 100 150

TRAFFIC CONTROL LEGEND

- SIGN (SINGLE SIDED)
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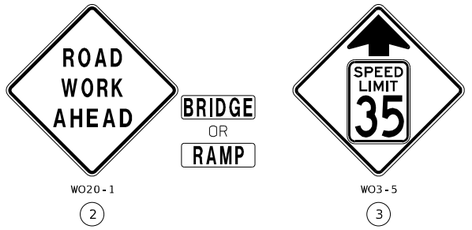
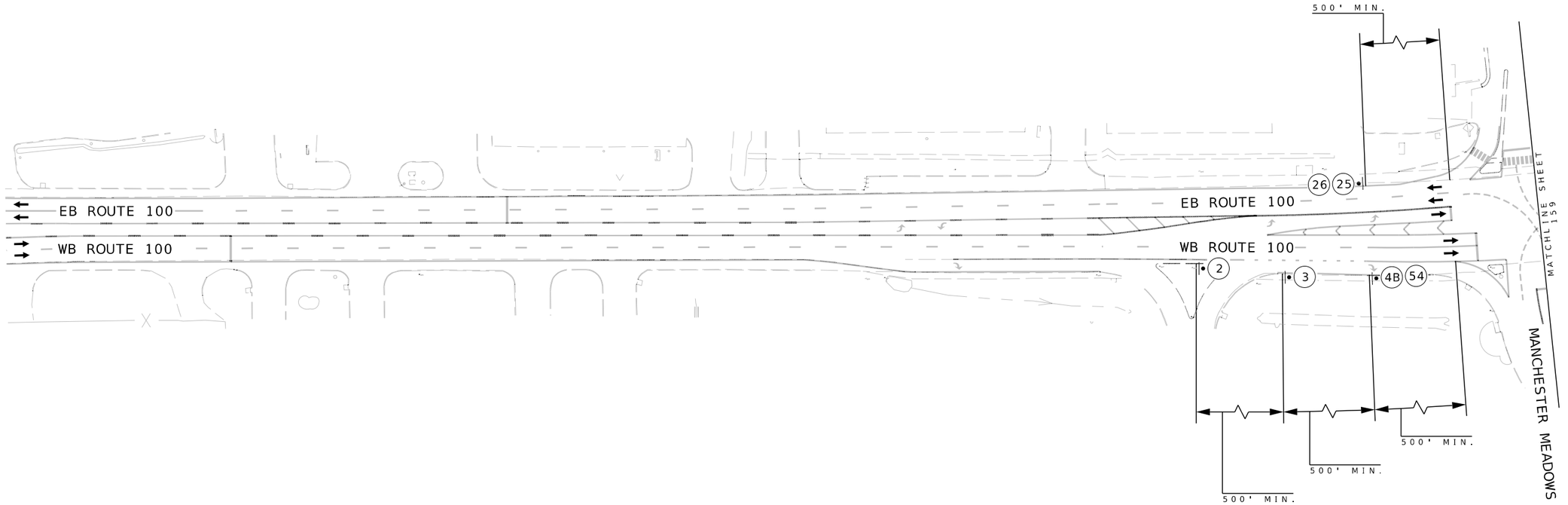


WO20-1 (2) | WO3-5 (3) | R2-1 (4B) | R2-1 (25) | GO20-2 (26) | GO20-5aP (54)



SHEET 1 OF 3

TRAFFIC CONTROL SHEET

MO ROUTE 100
TRAFFIC CONTROL PLAN
A9277 PHASE 2

KENDRA MILLER
PROFESSIONAL ENGINEER
PE-2014041301

STATE OF MISSOURI
KENDRA MILLER
NUMBER PE-2014041301
PROFESSIONAL ENGINEER

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

DATE PREPARED: 3/28/2025

MO ROUTE	STATE
100	MO
DISTRICT	SHEET NO.
SL	164

COUNTY: ST. LOUIS
JOB NO.: J6P3274
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
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16305 SWINGLEY RIDGE RD
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CHESTERFIELD, MO 63017
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GBAteam.com

GEORGE BUTLER ASSOCIATES, INC.
PRO. ENGINEER 000133
ARCHITECT 000212
PRO. LAND SURVEYOR 000059

SCALE

0 50 100 150

TRAFFIC CONTROL LEGEND

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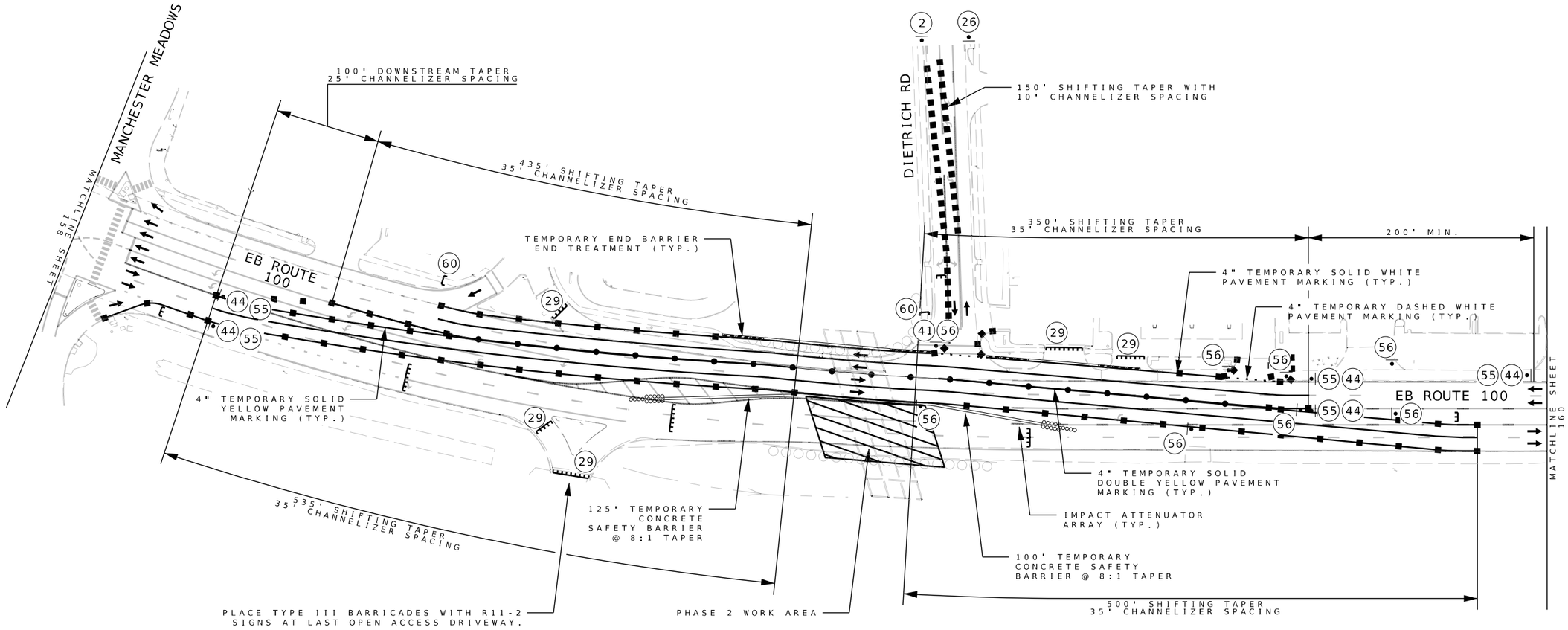

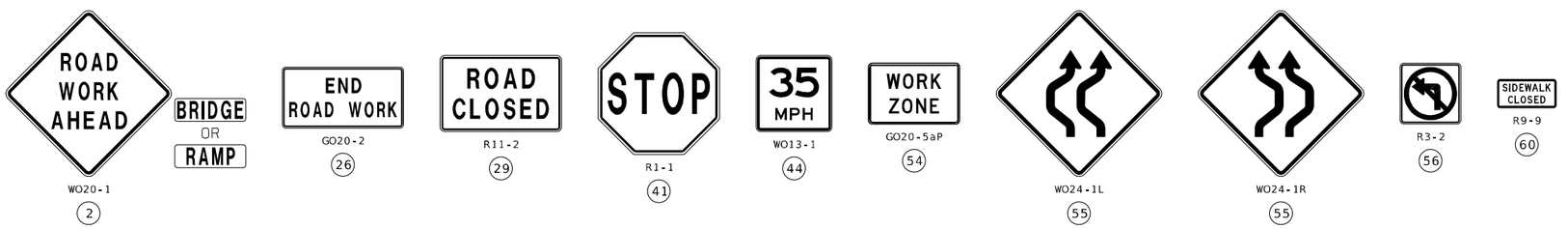

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KENDRA MILLER
NUMBER PE-2014041301
PROFESSIONAL ENGINEER

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DATE PREPARED: 3/28/2025

MO ROUTE	STATE
100	MO
DISTRICT	SHEET NO.
SL	165

COUNTY: ST. LOUIS

JOB NO.: J6P3274

CONTRACT ID.:

PROJECT NO.:

BRIDGE NO.:

DESCRIPTION	DATE

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JEFFERSON CITY, MO 65102
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SHEET 2 OF 3

TRAFFIC CONTROL SHEET

MO ROUTE 100
TRAFFIC CONTROL PLAN
A9277 PHASE 2

KENDRA MILLER
PROFESSIONAL ENGINEER
PE-2014041301

REV.

XXMSD-XXXXX, BASEMAPS 25-26N, 25M, 24-25K, 23-24J

c:*dms*gba-pw-01*regan hutchinson*dms05308*165_TC_18_J6P3274_i50_RTE100.dgn

3/28/2025

SCALE

0 50 100 150

TRAFFIC CONTROL LEGEND

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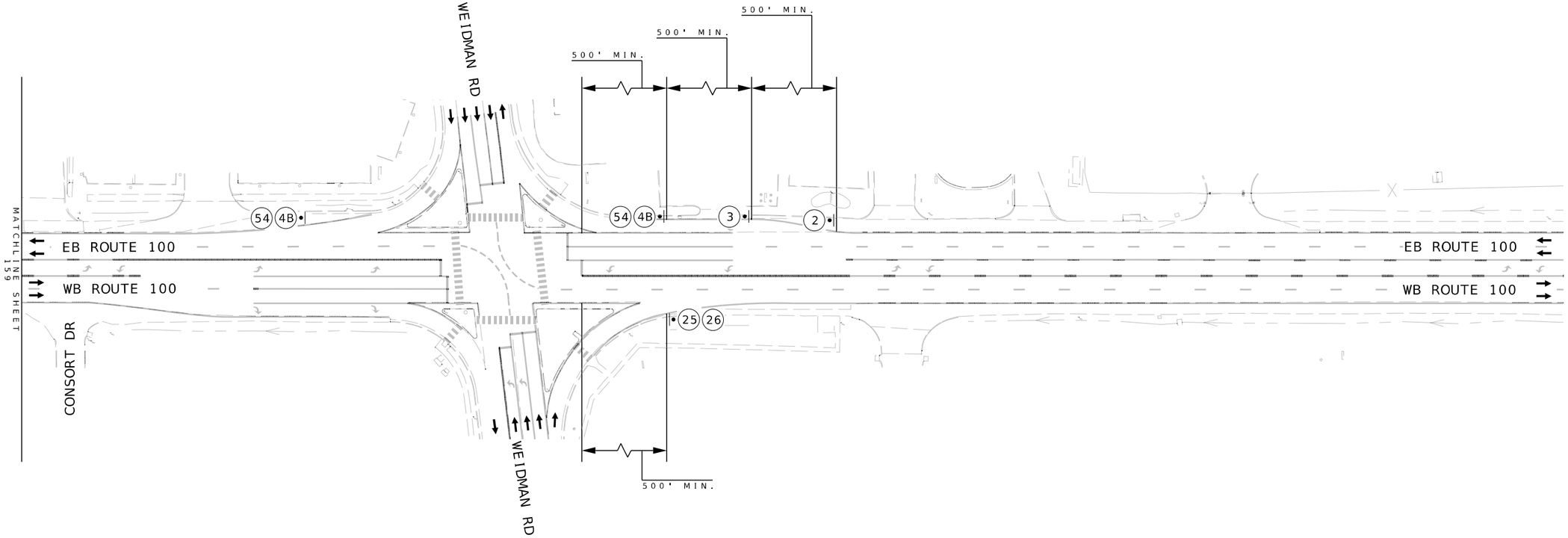

ROAD WORK AHEAD
WO20-1
2

BRIDGE OR RAMP

SPEED LIMIT 35
WO3-5
3

SPEED LIMIT 35
R2-1
4B

SPEED LIMIT 45
R2-1
25

END ROAD WORK
GO20-2
26

WORK ZONE
GO20-5aP
54

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KENDRA MILLER
NUMBER PE-2014041301
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DATE PREPARED
3/28/2025

MO ROUTE	STATE
100	MO
DISTRICT	SHEET NO.
SL	166

COUNTY
ST. LOUIS

JOB NO.
J6P3274

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

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REV.	DESCRIPTION	DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

105 WEST CAPITOL
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PRO. ENGINEER 000133
ARCHITECT 000212
PRO. LAND SURVEYOR 000059

SHEET 3 OF 3

TRAFFIC CONTROL SHEET

MO ROUTE 100
TRAFFIC CONTROL PLAN
A9277 PHASE 2

KENDRA MILLER
PROFESSIONAL ENGINEER
PE-2014041301

TRAFFIC SIGNALS LEGEND

CONTROLLER	CCTV CAMERA	6 X 6 LOOP DETECTOR	
CONTROLLER (EXISTING)	VIDEO DETECTOR	6 X 15 LOOP DETECTOR	
JUNCTION BOX	PUSH BUTTON DETECTOR	6 X 30 LOOP DETECTOR	
POWER SUPPLY	PREFORMED PULL BOX TYPE 1	CONDUIT MEDIAN	
WOOD POST	PREFORMED PULL BOX TYPE 2	CONDUIT PUSHED	
SIGNAL HEAD (OPT LIM CONV)	CONCRETE PULL BOX TYPE 1	CONDUIT BRIDGE	
SIGNAL HEAD (OPT LIM)	CONCRETE PULL BOX TYPE 2	CONDUIT EXISTING	
SIGNAL HEAD (PEDESTRIAN)	ITS PULL BOX TYPE 2	CONDUIT TRENCHED	
SIGNAL HEAD (STANDARD)	ITS PULL BOX TYPE 5	SPAN WIRE	
	VIDEO DETECTION ZONE	MAST ARM - TYPE A BASE	
		MAST ARM - TYPE C BASE	
		MAST ARM - TYPE F BASE	

SIGNAL GENERAL NOTES

1. ALL PEDESTRIAN HEADS SHALL BE COUNTDOWN TYPE HEADS.
2. ALL PUSHBUTTONS SHALL BE APS PUSHBUTTONS.
3. CONNECTION/ HOOK UP OF WIRES AND CONFIGURATION OF PEDESTRIAN HEADS AND PUSHBUTTON DETECTORS IN EXISTING CONTROLLERS INCLUDED IN UNIT PRICE FOR SIGNAL WIRE.
4. COORDINATE CURB RAMP & LANDING CONSTRUCTION WITH SIGNAL PLANS. SEE PLAN SHEETS.
5. ALL PUSHBUTTONS REQUIRE SIGN R10-3E (9"X15") TO BE INSTALLED ABOVE THEM.
6. EXISTING UTILITIES HAVE BEEN PLOTTED FROM AVAILABLE INFORMATION AND THEIR LOCATIONS MUST BE CONSIDERED APPROXIMATE. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO EXACTLY LOCATE EACH UTILITY BEFORE CONSTRUCTION. CONTRACTOR SHALL GIVE NOTIFICATION TO MODOT TO LOCATE ANY UTILITIES.
7. ALL TRAFFIC SIGNAL EQUIPMENT SHALL CONFORM TO THE LATEST MODOT STANDARDS AND SPECIFICATIONS.
8. UPON REMOVAL, ALL EXISTING TRAFFIC SIGNAL EQUIPMENT SHALL REMAIN PROPERTY OF MODOT. CONTRACTOR IS RESPONSIBLE FOR DELIVERING EQUIPMENT TO MODOT MAINTENANCE COMPLEX. CONTRACTOR TO COORDINATE DELIVERY DATE AND TIME WITH MODOT STAFF.
9. SIGNAL CONTRACTOR WILL NEED TO COORDINATE WITH MODOT REGARDING SIGNAL TIMING MODIFICATIONS DURING CONSTRUCTION AND FINAL SIGNAL TIMING IMPLEMENTATION. CONTRACTOR WILL BE RESPONSIBLE FOR INSTALLING ALL EQUIPMENT IN THE CABINET AND PROGRAMMING OF ALL TIMINGS.
10. SIGNAL CONTRACTOR SHALL BE RESPONSIBLE FOR ALL FIBER WORK NECESSARY TO HAVE COMMUNICATIONS RESTORED TO THE SIGNAL ONCE MODIFICATIONS ARE COMPLETED. COMMUNICATION MAY ONLY BE DISRUPTED FOR A MINIMUM OF 24 HOURS.
11. SEE CONNECTION DETAIL SHEETS FOR ADDITIONAL INFORMATION REGARDING COMMUNICATION EQUIPMENT QUANTITIES AND RELOCATIONS.

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DATE PREPARED: 3/28/2025
MO ROUTE: 100 | STATE: MO
DISTRICT: SL | SHEET NO.: 167
COUNTY: ST. LOUIS
JOB NO.: J6P3274
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)

GBA
16305 SWINGLEY RIDGE RD
ST. 300
CHESTERFIELD, MO 63017
314.231.0100
GBAteam.com

GEORGE BUTLER ASSOCIATES, INC.
PRO. ENGINEER 000133
ARCHITECT 000212
PRO. LAND SURVEYOR 000059

KENDRA MILLER
PROFESSIONAL ENGINEER
PE-2014041301

REV.

SHEET 1 OF 61

SIGNAL SHEET

MO ROUTE 100
GENERAL SIGNAL NOTES

SCALE
0 10 20 30

R10-3eL (A) OR R10-3eR (B)
INSTALL ABOVE PUSH BUTTONS

DISCLAIMER
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STATE OF MISSOURI
KENDRA MILLER
NUMBER PE-2014041301
PROFESSIONAL ENGINEER
THIS SHEET HAS BEEN SIGNED, SEALED, AND DATED ELECTRONICALLY.

DATE PREPARED 3/28/2025
MO ROUTE 100 | STATE MO
DISTRICT SL | SHEET NO. 168
COUNTY ST. LOUIS
JOB NO. J6P3274
CONTRACT ID.
PROJECT NO.
BRIDGE NO.

DESCRIPTION | DATE

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PRO. LAND SURVEYOR 000059

KENDRA MILLER
PROFESSIONAL ENGINEER
PE-2014041301

NOTE:
REPLACE EXISTING SIGNAL LOOPS WITH VIDEO DETECTION SYSTEM.

SHEET 2 OF 61

SIGNAL SHEET

MO ROUTE 100
MANCHESTER ROAD/
BARRETT STATION ROAD

REV.

XXMSD-XXXXX, BASEMAPS 25-26N, 25M, 24-25K, 23-24J
c:*dms*gba-pw-01*kregan hutchinson*dms05308*168_SG_02_J6P3274_i10.dgn
3/28/2025

EFFECTIVE: 07/01/2018

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

EFFECTIVE: 10-01-2015

CONDUIT (WITH #14 TRACER WIRE)

FROM	TO	CENTER TO CENTER DISTANCE	LOOP DET.	TRENCH				PUSHED			MEDIAN			ON STRUCTURE			REMARKS
			1"	2"	3"	4"		2"	3"	4"	2"	3"	4"	2"	3"		
2	2	17'			18'												PEDESTRIAN HEAD 65
5	7	9'			10'												PUSH BUTTON 65
																	VIDEO V-1
																	PEDESTRIAN HEAD 45
																	PUSH BUTTON 45
																	PEDESTRIAN HEAD 46
																	PUSH BUTTON 46
																	VIDEO V-4
																	PEDESTRIAN HEAD 24
																	PUSH BUTTON 24
																	PEDESTRIAN HEAD 25
																	PUSH BUTTON 25
																	VIDEO V-3
																	PEDESTRIAN HEAD 35
																	PUSH BUTTON 35
																	PEDESTRIAN HEAD 36
																	PUSH BUTTON 36
																	PEDESTRIAN HEAD 64
																	PUSH BUTTON 64
																	VIDEO V-2
SUBTOTALS					28'												
TOTALS					28'												

CABLE

FROM	TO	CENTER TO CENTER DISTANCE	POWER		CONTROL				CLOSED LOOP INTERCONNECT	LUMINAIRE		DETECTOR		FIBER		REMARKS
			1c#2	1c#6	2c #16	5c #16	7c #16	3c #16	3 PAIR #16	CONTROL 2c #12	POLE & BRACKET 1c #10	VIDEO (1)	CCTV (2)	SINGLE-MODE	MULTI-MODE	
☒	1	40'				71'										PEDESTRIAN HEAD 65
☒	1	40'			69'											PUSH BUTTON 65
☒	1	40'										(120')				VIDEO V-1
☒	2	52'				83'										PEDESTRIAN HEAD 45
☒	2	52'			81'											PUSH BUTTON 45
☒	3	143'				174'										PEDESTRIAN HEAD 46
☒	3	143'			172'											PUSH BUTTON 46
☒	3	143'										(221')				VIDEO V-4
☒	4	136'				167'										PEDESTRIAN HEAD 24
☒	4	136'			165'											PUSH BUTTON 24
☒	5	219'				256'										PEDESTRIAN HEAD 25
☒	5	219'			254'											PUSH BUTTON 25
☒	5	219'										(297')				VIDEO V-3
☒	6	220'				257'										PEDESTRIAN HEAD 35
☒	6	220'			255'											PUSH BUTTON 35
☒	7	128'				165'										PEDESTRIAN HEAD 36
☒	7	128'			163'											PUSH BUTTON 36
☒	8	123'				160'										PEDESTRIAN HEAD 64
☒	8	123'			158'											PUSH BUTTON 64
☒	8	123'										(209')				VIDEO V-2
SUBTOTALS					1317'	1333'						(847')				
5% FOR SNAKING					1383'	1400'						(889')				
TOTALS					1390'	1410'						(890')				

(1) NO DIRECT PAY FOR REQUIRED VIDEO DETECTOR CABLE

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INTERSECTION ROUTE 100 & BARRETT STATION ROAD

SHEET 4 OF 61

SIGNAL SHEET

MO ROUTE 100
BARRETT STATION ROAD
SIGNAL QUANTITIES

D-37B

STATE OF MISSOURI
KENDRA MILLER
NUMBER PE-2014041301
PROFESSIONAL ENGINEER

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

DATE PREPARED
3/28/2025

MO ROUTE	STATE
100	MO
DISTRICT	SHEET NO.
SL	170

COUNTY
ST. LOUIS

JOB NO.
J6P3274

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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105 WEST CAPITOL
JEFFERSON CITY, MO 65102
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KENDRA MILLER
PROFESSIONAL ENGINEER
PE-2014041301

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EFFECTIVE 04-01-2018

POWER SUPPLY

LOCATION			POWER SUPPLY ASSEMBLY		CIRCUIT BREAKER TRIP RATING*						LIGHTING CONTROL * (ON POWER SUPPLY)		SERVICE POLE	
					CONTROLLER		POWER SUPPLY DISCONNECT							
							MAIN BREAKER							
APPROACH	STATION	OFFSET	DRAWING 902.15	SPECIAL DRAWING (4)	AUXILIARY BREAKER	CONT & SIGNAL LAMPS	SIGNALS		LIGHTING		120 VOLT CONTROL CABINET	MAIN BREAKER	CONTRACT FURNISH	UTILITY COMPANY
ROUTE 100	EX	EX	Type		EX Amps	EX Amps	EX Amps		EX Amps		EX	EX Amps	CI. Ft.	EX
			Type		Amps	Amps	Amps		Amps			Amps	CI. Ft.	

CONTROLLER ASSEMBLY AND AUXILIARY EQUIPMENT

LOCATION			SYSTEM MASTER (CLOSED LOOP)		ACTUATED		ON-OFF* SWITCH TYPE		COORDINATION INTERFACE *						TIME * CLOCK	NEMA CABINET TYPE *			170 CABINET TYPE *		170 SOFTWARE *	
									12C/7C HARDWIRE (1)		TIME BASE	CLOSED LOOP		FIBER								
APPROACH	STATION	OFFSET	NEMA	170	NEMA	170	I	II	MASTER	LOCAL		NEMA	170			E	EV	DOUBLE	332	336S	BITRAN	WAPITI
ROUTE 100	EX	EX			EX									EX		MODOT TO PROVIDE						

DETECTOR SCHEDULE

DETECTOR NUMBER	APPROACH	TYPE				
		AUDIBLE PUSH BUTTON	INDUCTION LOOP (2)			OPTIONAL DETECTION (3)
			STANDARD	DELAY/ EXTEND *	CALL UNIT *	
21, 22, 23	WB ROUTE 100					V4
61, 62, 63	EB ROUTE 100					V2
31, 32, 33, 34	NB BARRETT STATION RD					V3
41, 42, 43, 44	SB BARRETT STATION RD					V1
24	BARRETT STATION RD	1				
25	BARRETT STATION RD	1				
35	ROUTE 100	1				
36	ROUTE 100	1				
45	ROUTE 100	1				
46	ROUTE 100	1				
64	BARRETT STATION RD	1				
65	BARRETT STATION RD	1				
TOTAL		8				

* ITEMS FOR WHICH SEPARATE PAYMENT WILL NOT BE MADE.

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

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

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

(3) SEE SL DISTRICT TRAFFIC SIGNAL DETECTION JSP FOR ADDITIONAL DETAILS. SIGNAL DETECTION SHALL BE PAID AS 1 PER INTERSECTION. THE CONTRACTOR SHALL PROVIDE AND INSTALL A VEHICLE DETECTION SYSTEM FULLY COVERING DETECTION ZONES AS SHOWN ON THE PLANS. THE METHOD CHOSEN SHALL COMPLY WITH MODOT'S STANDARDS AND SPECIFICATIONS. ALL EQUIPMENT USED IN THE SYSTEM SHALL BE IN ACCORDANCE WITH MODOT'S APPROVED PRODUCT LIST AND RECEIVE ST. LOUIS DISTRICT APPROVAL PRIOR TO INSTALLATION. THIS WILL BE A COMPLETE UNIT WITH ALL COSTS INCLUDED.

(4) POWER SUPPLY SHALL BE PAD MOUNTED 120V/240V POWER SUPPLY & LIGHTING CONTROLLER WITH UNINTERRUPTIBLE POWER SUPPLY. SEE DETAILS.

SL DISTRICT TRAFFIC SIGNAL DETECTION SYSTEM (3)
TOTAL = 1 EACH

SIGNAL SIGNS

QUANTITY	MUTCD SIGN NUMBER	SIZE	AREA	SIGN TOTAL AREA ITEM NO. 90208.33	SIGNAL SIGN MOUNTING HARDWARE ITEM NO. 90208.34
		INCHES	SQ.FT.	SQ.FT.	EA.
	R10-10L	24 X 30	5.0		
	R10-10R	24 X 30	5.0		
	R3-5L	30 X 36	7.5		
	R3-5R	30 X 36	7.5		
	R3-5A	30 X 36	7.5		
	R3-6L	30 X 36	7.5		
	R3-6R	30 X 36	7.5		
2	R3-2	36 X 36	9.0	18.0	2
	R3-1	24 X 24	4.0		
	R3-3	24 X 24	4.0		
	D3-1 ***	VAR. X 18			
	D3-1 ***	VAR. X 18			
	D3-1B ***	VAR. X 18			
4	R10-3eL**	9 X 15	0.9	3.6	4
4	R10-3eR**	9 X 15	0.9	3.6	4
	R10-11A	24 X 30	5.0		
	R10-13	36 X 24	6.0		
	R10-27A	30 X 36	7.5		
			SUBTOTAL	18.0	2
			TOTAL	18	2

**NOTE: NO DIRECT PAY FOR REQUIRED R10-3E SIGNS AND MOUNTING HARDWARE TO BE INCLUDED AS INCIDENTAL TO COST OF THE PUSH BUTTON.

PUSH BUTTON EXTENDER
TOTAL = 4 EACH

NEMA DETECTOR ASSIGNMENT

	CARD POSITION							
	1	2	3	4	5	6	7	8
CHANNEL 1		SL DISTRICT TRAFFIC SIGNAL DETECTION SYSTEM (3)						
CHANNEL 2								

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

NEMA LOAD SWITCH ASSIGNMENTS

1	2	3	4	5	6	7	8	9	10	11	12
NOT USED	∅2 EB	∅3 NB	∅4 SB	NOT USED	∅6 WB	NOT USED	NOT USED	∅2 PED	∅3 PED	∅4 PED	∅6 PED

ALL NEMA LOAD SWITCH ASSIGNMENTS TO BE USE IN PLACE. FOR INFORMATIONAL PURPOSES

ROUTE 100 & BARRETT STATION ROAD
INTERSECTION

SHEET 5 OF 61

SIGNAL SHEET

MO ROUTE 100
BARRETT STATION ROAD
SIGNAL QUANTITIES

D-37C

STATE OF MISSOURI
KENDRA MILLER
NUMBER PE-2014041301
PROFESSIONAL ENGINEER

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DATE PREPARED
3/28/2025

MO ROUTE	STATE
100	MO
DISTRICT	SHEET NO.
SL	171

COUNTY
ST. LOUIS

JOB NO.
J6P3274

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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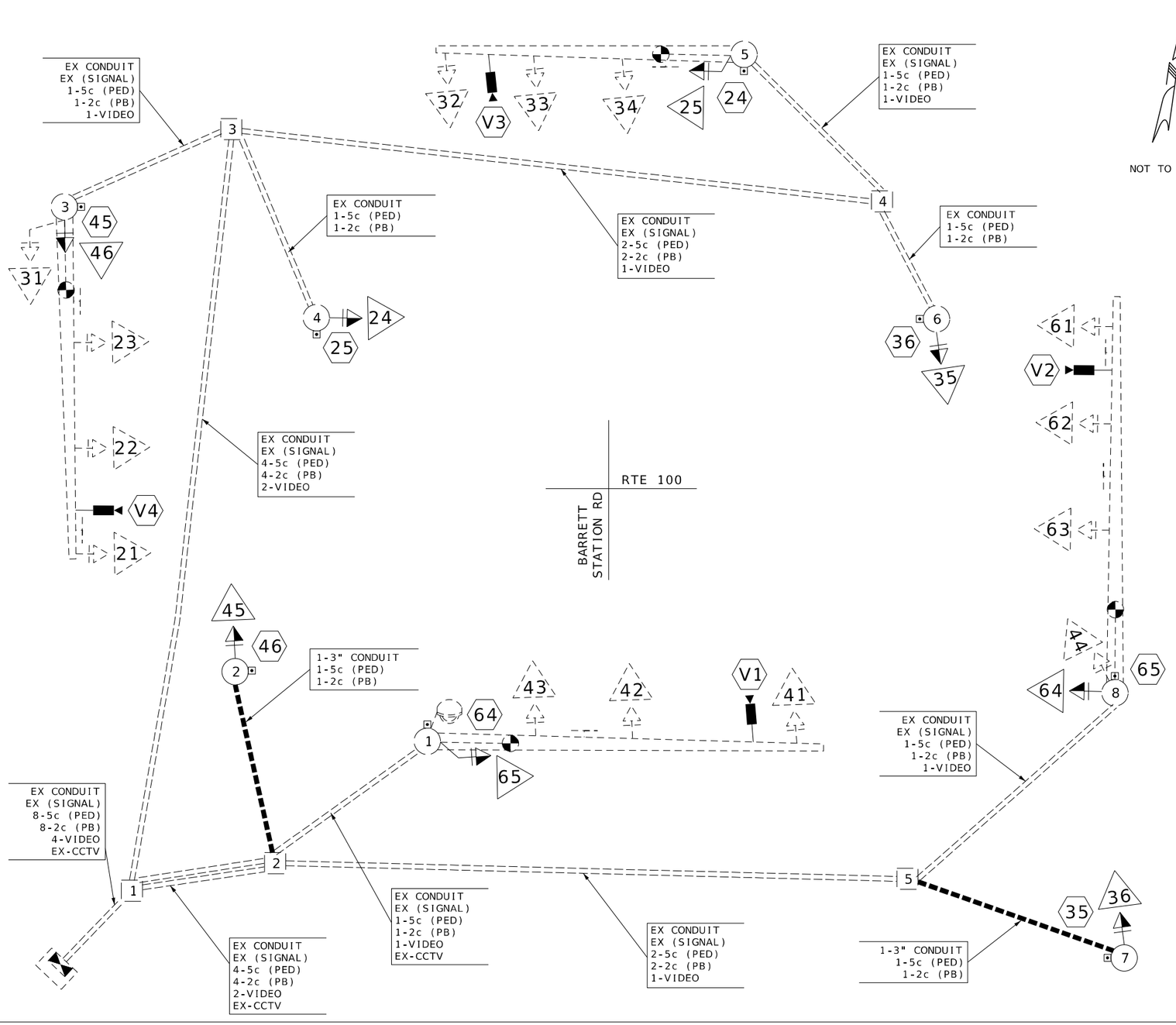
KENDRA MILLER
PROFESSIONAL ENGINEER
PE-2014041301

REV.

WIRING DIAGRAM



ROUTE 100 & BARRETT STATION ROAD

INTERSECTION

LEGEND

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

DISCLAIMER EFFECTIVE 12-01-17

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PROFESSIONAL ENGINEER

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DATE PREPARED 3/28/2025

MO ROUTE	STATE
100	MO
DISTRICT	SHEET NO.
SL	172

COUNTY: ST. LOUIS

JOB NO.: J6P3274

CONTRACT ID.:

PROJECT NO.:

BRIDGE NO.:

DESCRIPTION	DATE

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ARCHITECT 000212
PRO. LAND SURVEYOR 000059

SHEET 6 OF 61

SIGNAL SHEET

MO ROUTE 100
BARRETT STATION ROAD
SIGNAL QUANTITIES

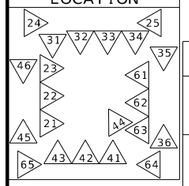
D-37D

KENDRA MILLER
PROFESSIONAL ENGINEER
PE-2014041301

REV.

EFFECTIVE 12/01/2017

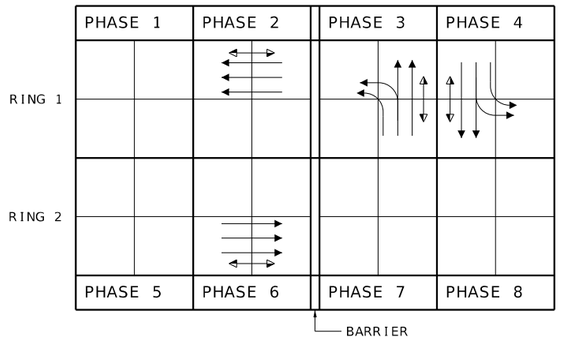
SIGNAL FACE LOCATION



EXISTING PHASING TO BE USE IN PLACE. FOR INFORMATIONAL PURPOSES

TRAFFIC PHASING AND COLOR SEQUENCE - ACTUATED CONTROLLERS

	PHASE 1	PHASE 2	PHASE 3	PHASE 4	PHASE 5	PHASE 6	PHASE 7	PHASE 8	PED Ø 2 OVERLAP	PED Ø 3 OVERLAP	PED Ø 4 OVERLAP	PED Ø 6 OVERLAP	
FACE NUMBERS		21 23	31 33 34	41 42 43		61 63			24	35	45	64	FACE NUMBERS
		22	32	44		62			25	36	46	65	
SIGNAL INDICATIONS R		R R	R R R	R R R		R R			DW	DW	DW	DW	R
SIGNAL INDICATIONS Y		Y Y	Y Y Y	Y Y Y		Y Y							Y
SIGNAL INDICATIONS FYA													FYA
SIGNAL INDICATIONS G		S S	L S S	L S S		S S			W	W	W	W	G
			L	L									
DETECTOR ASSIGNMENTS		21 23 22	31 33 34 32	41 42 43 44		61 63 62							DETECTOR ASSIGNMENTS
DETECTOR ASSIGNMENTS (PEDS. ONLY)									24 25	35 36	45 46	64 65	
OVERLAP PARENT PHASES													



RING STRUCTURE

NOTE: CONTRACTOR SHALL COORDINATE WITH MODOT TRAFFIC FOR FINAL PHASING OF INTERSECTION.

IF CALLED, ALL NON-CONFLICTING PHASES SHALL COMBINE AND TIME CONCURRENTLY. TIME TO BE DETERMINED BY THE ENGINEER AT SIGNAL TURN ON AND SET IN THE CONTROLLER BY THE CONTRACTOR.

LEGEND

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

FLASHING OPERATION	
ROUTE 100	FR
BARRETT STATION ROAD	FR

CONTROLLER TYPE	NEMA

TRAFFIC SIGNAL CONTROL OPERATION

INTERSECTION OF
ROUTE 100 & BARRETT STATION ROAD

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STATE OF MISSOURI
KENDRA MILLER
NUMBER PE-2014041301
PROFESSIONAL ENGINEER

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

DATE PREPARED 3/28/2025

MO ROUTE	STATE
100	MO
DISTRICT	SHEET NO.
SL	173

COUNTY: ST. LOUIS
JOB NO.: J6P3274
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
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ARCHITECT 000212
PRO. LAND SURVEYOR 000059

KENDRA MILLER
PROFESSIONAL ENGINEER
PE-2014041301

SHEET 7 OF 61

SIGNAL SHEET

MO ROUTE 100
BARRETT STATION ROAD
SIGNAL QUANTITIES

D-38A

SCALE
0 10 20 30

R10-3eL (A) OR R10-3eR (B)
INSTALL ABOVE PUSH BUTTONS

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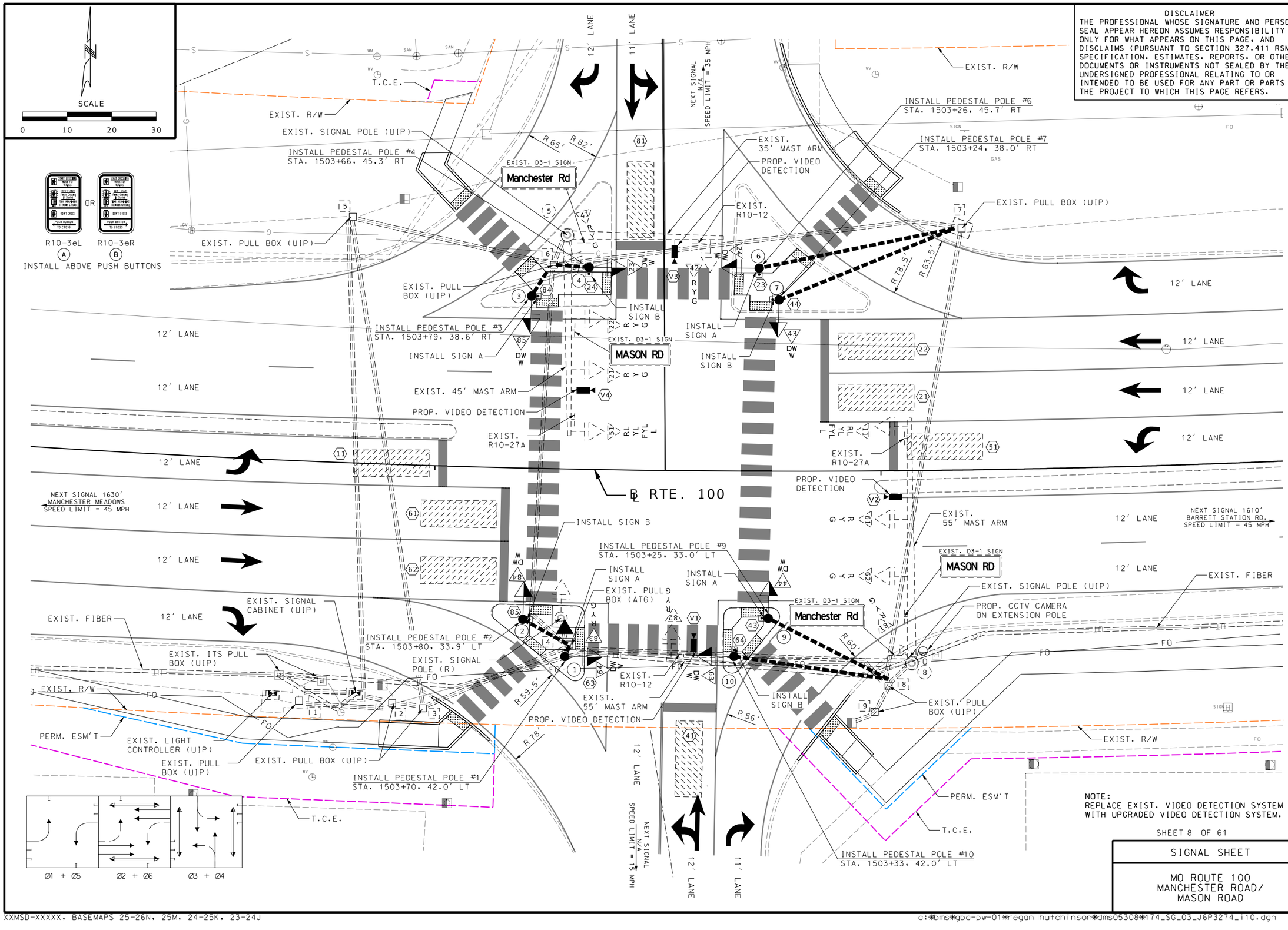

NOTE:
REPLACE EXIST. VIDEO DETECTION SYSTEM WITH UPGRADED VIDEO DETECTION SYSTEM.

SHEET 8 OF 61

SIGNAL SHEET

MO ROUTE 100
MANCHESTER ROAD/
MASON ROAD

STATE OF MISSOURI
KENDRA MILLER
NUMBER PE-2014041301
PROFESSIONAL ENGINEER

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DATE PREPARED	
3/28/2025	
MO ROUTE	STATE
100	MO
DISTRICT	SHEET NO.
SL	174
COUNTY	
ST. LOUIS	
JOB NO.	
J6P3274	
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)

GBA
16305 SWINGLEY RIDGE RD
ST. 300
CHESTERFIELD, MO 63017
314.231.0100
GBAteam.com

GEORGE BUTLER ASSOCIATES, INC.
PRO. ENGINEER 000133
ARCHITECT 000212
PRO. LAND SURVEYOR 000059

KENDRA MILLER
PROFESSIONAL ENGINEER
PE-2014041301

REV.

EFFECTIVE: 07/01/2018

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

EFFECTIVE: 10-01-2015

CONDUIT (WITH #14 TRACER WIRE)

FROM	TO	CENTER TO CENTER DISTANCE	LOOP DET.	TRENCH				PUSHED			MEDIAN			ON STRUCTURE			REMARKS
			1"	2"	3"	4"		2"	3"	4"	2"	3"	4"	2"	3"		
4	1	3'			4'												SIGNAL HEAD 83
4	2	13'			14'												PEDESTRIAN HEAD 64
6	3	9'			10'												PUSH BUTTON 64
6	4	7'			8'												PEDESTRIAN HEAD 84
7	6	46'			47'												PUSH BUTTON 84
7	7	44'			45'												PEDESTRIAN HEAD 85
8	9	32'			33'												PUSH BUTTON 85
8	10	37'			38'												PEDESTRIAN HEAD 23
SUBTOTALS					199'												
TOTALS					199'												

CABLE

FROM	TO	CENTER TO CENTER DISTANCE	POWER		CONTROL				CLOSED LOOP INTERCONNECT	LUMINAIRE		DETECTOR		FIBER		REMARKS
			1c#2	1c#6	2c #16	5c #16	7c #16	3c #16	3 PAIR #16	CONTROL 2c #12	POLE & BRACKET 1c #10	VIDEO (1)	CCTV	SINGLE-MODE	MULTI-MODE	
1	☒	74'					120'									SIGNAL HEAD 83
1	☒	74'				117'										PEDESTRIAN HEAD 64
1	☒	74'			115'											PUSH BUTTON 64
2	☒	84'				127'										PEDESTRIAN HEAD 84
2	☒	84'			125'											PUSH BUTTON 84
3	☒	168'				217'										PEDESTRIAN HEAD 85
3	☒	168'			215'											PUSH BUTTON 85
4	☒	169'				218'										PEDESTRIAN HEAD 23
4	☒	169'			216'											PUSH BUTTON 23
5	☒	167'										(263')				VIDEO V-4
5	☒	167'										(251')				VIDEO V-3
6	☒	298'				353'										PEDESTRIAN HEAD 24
6	☒	298'			351'											PUSH BUTTON 24
7	☒	295'				350'										PEDESTRIAN HEAD 43
7	☒	295'			348'											PUSH BUTTON 43
8	☒	153'										(251')				VIDEO V-2
8	☒	153'										(263')				VIDEO V-1
8	☒	153'											205'			CCTV
9	☒	177'				226'										PEDESTRIAN HEAD 44
9	☒	177'			224'											PUSH BUTTON 44
10	☒	182'				231'										PEDESTRIAN HEAD 63
10	☒	182'			229'											PUSH BUTTON 63
SUBTOTALS					1823'	1839'	120'					(1028')	205'			
5% FOR SNAKING					1914'	1931'	126'					(1080')	215'			
TOTALS					1920'	1940'	130'					(1090')	220'			

(1) NO DIRECT PAY FOR REQUIRED VIDEO DETECTOR CABLE

INTERSECTION ROUTE 100 & MASON ROAD

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STATE OF MISSOURI
KENDRA MILLER
NUMBER PE-2014041301
PROFESSIONAL ENGINEER

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

DATE PREPARED
3/28/2025

MO ROUTE	STATE
100	MO
DISTRICT	SHEET NO.
SL	176

COUNTY
ST. LOUIS

JOB NO.
J6P3274

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DESCRIPTION

DATE

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MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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ARCHITECT 000212
PRO. LAND SURVEYOR 000059

SHEET 10 OF 61

SIGNAL SHEET

MO ROUTE 100
MASON ROAD
SIGNAL QUANTITIES

D-37B

KENDRA MILLER
PROFESSIONAL ENGINEER
PE-2014041301

REV.

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EFFECTIVE 04-01-2018

POWER SUPPLY

LOCATION			POWER SUPPLY ASSEMBLY		CIRCUIT BREAKER TRIP RATING*						LIGHTING CONTROL * (ON POWER SUPPLY)		SERVICE POLE	
					CONTROLLER		POWER SUPPLY DISCONNECT							
APPROACH	STATION	OFFSET	DRAWING 902.15	SPECIAL DRAWING (4)	AUXILIARY BREAKER	CONT & SIGNAL LAMPS	MAIN BREAKER				120 VOLT CONTROL CABINET	MAIN BREAKER	CONTRACT FURNISH	UTILITY COMPANY
							SIGNALS		LIGHTING					
ROUTE 100	EX	EX	Type 2		EX Amps	EX Amps	EX Amps		EX Amps			Amps	CI. Ft.	EX
			Type		Amps	Amps	Amps		Amps			Amps	CI. Ft.	

CONTROLLER ASSEMBLY AND AUXILIARY EQUIPMENT

LOCATION			SYSTEM MASTER (CLOSED LOOP)		ACTUATED		ON-OFF* SWITCH TYPE		COORDINATION INTERFACE *						TIME * CLOCK	NEMA CABINET TYPE *			170 CABINET TYPE *		170 SOFTWARE *	
									12C/7C HARDWIRE (1)		TIME BASE	CLOSED LOOP		FIBER								
APPROACH	STATION	OFFSET	NEMA	170	NEMA	170	I	II	MASTER	LOCAL		NEMA	170			E	EV	DOUBLE	332	336S	BITRAN	WAPITI
ROUTE 100	EX	EX			EX									EX		MODOT TO PROVIDE						

DETECTOR SCHEDULE

DETECTOR NUMBER	APPROACH	TYPE				
		AUDIBLE PUSH BUTTON	INDUCTION LOOP (2)			OPTIONAL DETECTION (3)
			STANDARD	DELAY/ EXTEND *	CALL UNIT *	
21, 22, 51	WB ROUTE 100					V4
11, 61, 62	EB ROUTE 100					V2
41, 42	NB MASON RD					V3
81, 82, 83	SB MASON RD					V1
23	MASON RD	1				
24	MASON RD	1				
43	ROUTE 100	1				
44	ROUTE 100	1				
63	MASON RD	1				
64	MASON RD	1				
84	ROUTE 100	1				
85	ROUTE 100	1				
TOTAL		8				

* ITEMS FOR WHICH SEPARATE PAYMENT WILL NOT BE MADE.

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

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

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

(3) SEE SL DISTRICT TRAFFIC SIGNAL DETECTION JSP FOR ADDITIONAL DETAILS. SIGNAL DETECTION SHALL BE PAID AS 1 PER INTERSECTION. THE CONTRACTOR SHALL PROVIDE AND INSTALL A VEHICLE DETECTION SYSTEM FULLY COVERING DETECTION ZONES AS SHOWN ON THE PLANS. THE METHOD CHOSEN SHALL COMPLY WITH MODOT'S STANDARDS AND SPECIFICATIONS. ALL EQUIPMENT USED IN THE SYSTEM SHALL BE IN ACCORDANCE WITH MODOT'S APPROVED PRODUCT LIST AND RECEIVE ST. LOUIS DISTRICT APPROVAL PRIOR TO INSTALLATION. THIS WILL BE A COMPLETE UNIT WITH ALL COSTS INCLUDED.

(4) POWER SUPPLY SHALL BE PAD MOUNTED 120V/240V POWER SUPPLY & LIGHTING CONTROLLER WITH UNINTERRUPTIBLE POWER SUPPLY. SEE DETAILS.

SL DISTRICT TRAFFIC SIGNAL DETECTION SYSTEM (3)
TOTAL = 1 EACH

SIGNAL SIGNS

QUANTITY	MUTCD SIGN NUMBER	SIZE	AREA	SIGN TOTAL AREA ITEM NO. 90208.33	SIGNAL SIGN MOUNTING HARDWARE ITEM NO. 90208.34
		INCHES	SQ.FT.	SQ.FT.	EA.
	R10-10L	24 X 30	5.0		
	R10-10R	24 X 30	5.0		
	R3-5L	30 X 36	7.5		
	R3-5R	30 X 36	7.5		
	R3-5A	30 X 36	7.5		
	R3-6L	30 X 36	7.5		
	R3-6R	30 X 36	7.5		
	R3-2	24 X 24	4.0		
	R3-1	24 X 24	4.0		
	R3-3	24 X 24	4.0		
	D3-1 ***	VAR. X 18			
	D3-1 ***	VAR. X 18			
	D3-1B ***	VAR. X 18			
4	R10-3eL**	9 X 15	0.9	3.6	4
4	R10-3eR**	9 X 15	0.9	3.6	4
	R10-11A	24 X 30	5.0		
	R10-13	36 X 24	6.0		
	R10-27A	30 X 36	7.5		
			SUBTOTAL	0.0	0
			TOTAL	0	0

CCTV CAMERA ASSEMBLY
TOTAL = 1 EACH

INSTALL CCTV CAMERA ASSEMBLY
TOTAL = 1 EACH

CCTV EXTENSION POLE, 20 FT. METALLIC FINISH
TOTAL = 1 EACH

**NOTE: NO DIRECT PAY FOR REQUIRED R10-3E SIGNS AND MOUNTING HARDWARE TO BE INCLUDED AS INCIDENTAL TO COST OF THE PUSH BUTTON.

NEMA DETECTOR ASSIGNMENT

CHANNEL	CARD POSITION 1	2	3	4	5	6	7	8
1		SL DISTRICT TRAFFIC SIGNAL DETECTION SYSTEM (3)						
2								

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

NEMA LOAD SWITCH ASSIGNMENTS

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
∅1 EBL	∅2 WB	NOT USED	∅4 NB	∅5 WBL	∅6 EB	NOT USED	∅8 SB	OLA EBL	NOT USED	OLC WBL	NOT USED	∅2 PED	∅4 PED	∅6 PED	∅8 PED

NEMA LOAD SWITCH ASSIGNMENTS 1,2,4,5,6,8,9,11 TO BE USE IN PLACE. FOR INFORMATIONAL PURPOSES

ROUTE 100 & MASON ROAD
INTERSECTION

SHEET 11 OF 61

SIGNAL SHEET

MO ROUTE 100
MASON ROAD
SIGNAL QUANTITIES

D-37C

STATE OF MISSOURI
KENDRA MILLER
NUMBER PE-2014041301
PROFESSIONAL ENGINEER

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DATE PREPARED
3/28/2025

MO ROUTE	STATE
100	MO
DISTRICT	SHEET NO.
SL	177

COUNTY
ST. LOUIS

JOB NO.
J6P3274

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

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REV.	DESCRIPTION	DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
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JEFFERSON CITY, MO 65102
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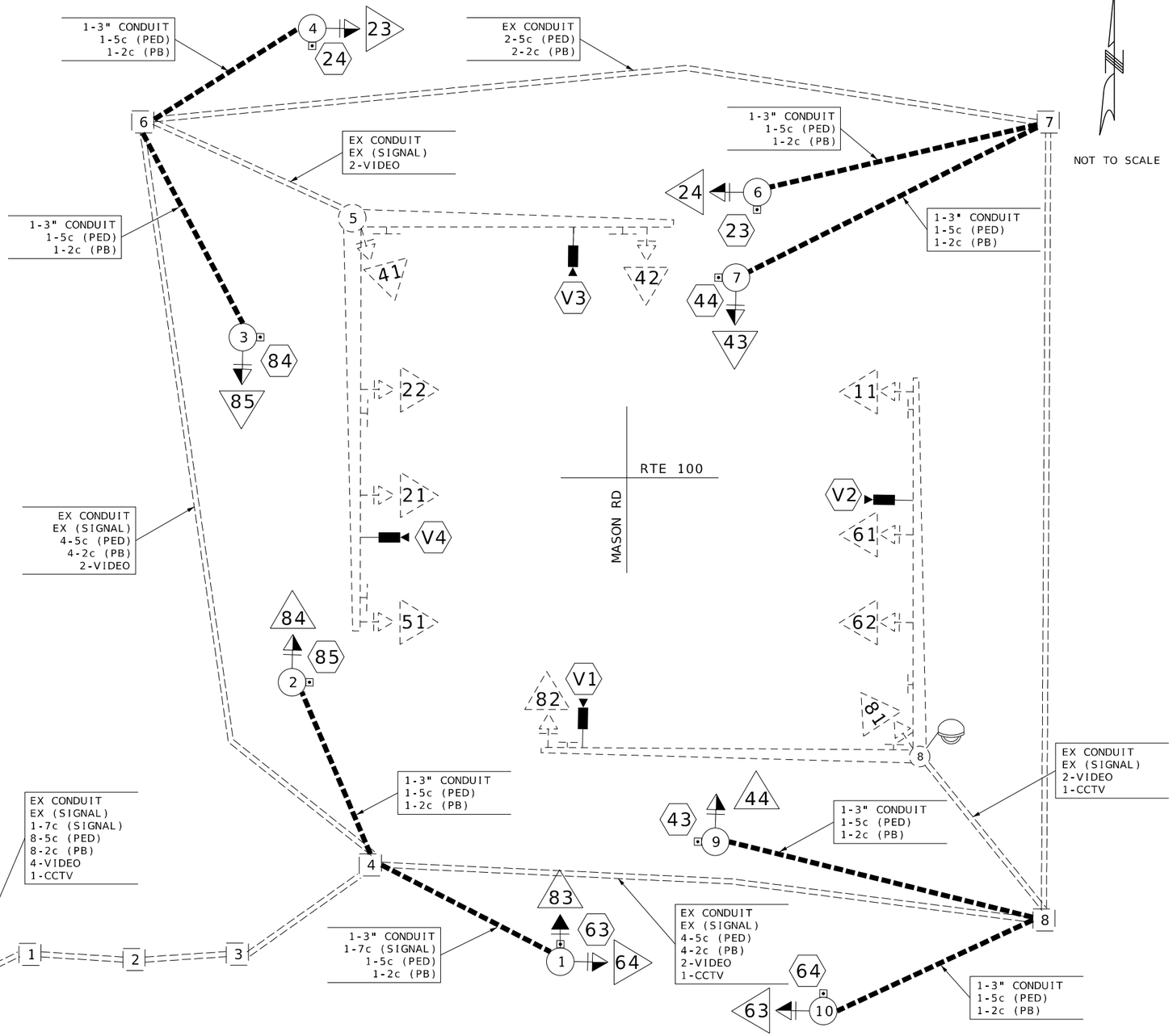
KENDRA MILLER
PROFESSIONAL ENGINEER
PE-2014041301

WIRING DIAGRAM



ROUTE 100 & MASON ROAD

INTERSECTION

LEGEND

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

DISCLAIMER EFFECTIVE 12-01-17

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KENDRA MILLER
NUMBER PE-2014041301
PROFESSIONAL ENGINEER

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MO ROUTE	STATE
100	MO
DISTRICT	SHEET NO.
SL	178

COUNTY: ST. LOUIS

JOB NO.: J6P3274

CONTRACT ID.:

PROJECT NO.:

BRIDGE NO.:

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PRO. ENGINEER 000133
ARCHITECT 000212
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SHEET 12 OF 61

SIGNAL SHEET

MO ROUTE 100
MASON ROAD
SIGNAL QUANTITIES

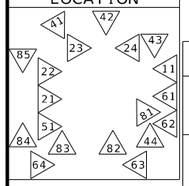
D-37D

KENDRA MILLER
PROFESSIONAL ENGINEER
PE-2014041301

REV.

EFFECTIVE 12/01/2017

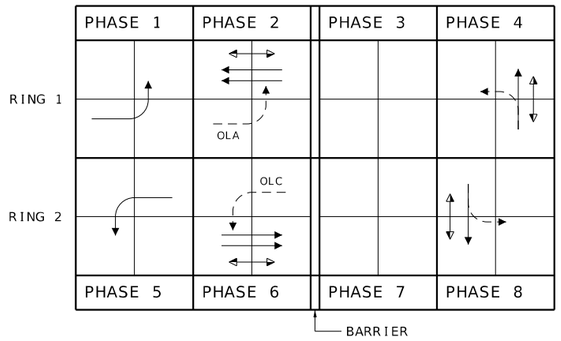
SIGNAL FACE LOCATION



EXISTING PHASING TO BE USE IN PLACE. FOR INFORMATIONAL PURPOSES

TRAFFIC PHASING AND COLOR SEQUENCE - ACTUATED CONTROLLERS

	PHASE 1	PHASE 2	PHASE 3	PHASE 4	PHASE 5	PHASE 6	PHASE 7	PHASE 8	PED Ø 2 OVERLAP	PED Ø 4 OVERLAP	PED Ø 6 OVERLAP	PED Ø 8 OVERLAP	OVERLAP A	OVERLAP C	
FACE NUMBERS	11	21 22		41 42	51	61 62		81 83 82	23 24	43 44	63 64	84 85	11	51	FACE NUMBERS
SIGNAL INDICATIONS R	RL	R		R	RL	R		R R	DW	DW	DW	DW	RL	RL	R
SIGNAL INDICATIONS Y	YL	Y		Y	YL	Y		Y Y					YL	YL	Y
SIGNAL INDICATIONS FYA													FYL	FYL	FYA
SIGNAL INDICATIONS G	L	G		G	L	G		G G	W	W	W	W			G
DETECTOR ASSIGNMENTS	11	21 22		41 42	51	61 62		81 83 82							DETECTOR ASSIGNMENTS
DETECTOR ASSIGNMENTS (PEDS. ONLY)									23 24	43 44	63 64	84 85			
OVERLAP PARENT PHASES													2	6	



RING STRUCTURE

IF CALLED, ALL NON-CONFLICTING PHASES SHALL COMBINE AND TIME CONCURRENTLY. TIME TO BE DETERMINED BY THE ENGINEER AT SIGNAL TURN ON AND SET IN THE CONTROLLER BY THE CONTRACTOR.

LEGEND

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

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FLASHING OPERATION	
ROUTE 100	FR
MASON ROAD	FR
CONTROLLER TYPE	NEMA

TRAFFIC SIGNAL CONTROL OPERATION
INTERSECTION OF
ROUTE 100 & MASON ROAD

SHEET 13 OF 61

SIGNAL SHEET

MO ROUTE 100
MASON ROAD
SIGNAL QUANTITIES

D-38A

STATE OF MISSOURI
KENDRA MILLER
NUMBER PE-2014041301
PROFESSIONAL ENGINEER
THIS SHEET HAS BEEN SIGNED, SEALED, AND DATED ELECTRONICALLY.

DATE PREPARED 3/28/2025

MO ROUTE	STATE
100	MO
DISTRICT	SHEET NO.
SL	179

COUNTY: ST. LOUIS
JOB NO.: J6P3274
CONTRACT ID.:
PROJECT NO.:
BRIDGE NO.:

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PROFESSIONAL ENGINEER
PE-2014041301

SCALE
0 10 20 30

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T.C.E.
PERM. ESM'T
EXIST. R/W
EXIST. POWER SUPPLY (R)
INSTALL CLASS 3 PULL BOX #1
STA. 1520+34, 76.2' RT
EXIST. PULL BOX (R)
INSTALL SIGNAL CABINET
STA. 1520+52, 72.0' RT
EXIST. ITS PULL BOX (UIP)
EXIST. PULL BOX (UIP)
INSTALL PAD MOUNTED SIGNAL POWER SUPPLY AND LIGHTING CONTROLLER WITH UPS
STA. 1520+46, 73.1' RT
EXIST. SIGNAL CABINET (R)
INSTALL CLASS 2 PULL BOX #2
STA. 1520+07, 56.5' RT
INSTALL SIGNAL POLE #1
STA. 1520+18, 46.2' RT
D3-1 SIGN
Manchester Meadows
INSTALL SIGN A
INSTALL PUSH BUTTON EXTENSION
PROP. CCTV CAMERA ON EXTENSION POLE
EXIST. FIBER
55' MAST ARM
PROP. VIDEO DETECTION
INSTALL R3-5L
NEXT SIGNAL 1750' WEIDMAN RD. SPEED LIMIT = 45 MPH
INSTALL R10-27a
INSTALL SIGNAL POLE #4
STA. 1520+09, 45.9' LT
D3-1 SIGN
Manchester Rd
INSTAL SIGN B
INSTALL PEDESTRIAN PUSHBUTTON POLE #5
STA. 1520+18, 44.8' LT
EXIST. ITS PULL BOX (UIP)
EXIST. FIBER
EXIST. R/W
T.C.E.
PERM ESM'T
EXIST. SIGNAL POLE (R)
INSTALL SIGN B
INSTALL PUSH BUTTON EXTENSION
INSTALL CLASS 2 PULL BOX #5
STA. 1520+09, 53.3' LT
PROP. VIDEO DETECTION
30' MAST ARM
NEXT SIGNAL N/A SPEED LIMIT = 25 MPH
Ø1 + Ø5
Ø2 + Ø6
Ø3
Ø4
11' LANE
12' LANE
13' LANE
12' LANE
11' LANE
NEXT SIGNAL N/A SPEED LIMIT = 25 MPH
STORM
30' MAST ARM
PROP. VIDEO DETECTION
EXIST. SIGNAL POLE (R)
EXIST. PULL BOX (UIP)
INSTALL CLASS 2 PULL BOX #3
STA. 1519+47, 54.8' RT
EXIST. PULL BOX (R)
INSTALL SIGNAL POLE #2
STA. 1519+45, 43.8' RT
R10-3eL (A) OR R10-3eR (B)
INSTALL ABOVE PUSH BUTTONS
R 57.5'
R 61.5'
R 53'
R 65.5'
R 64.5'
R 49'
R 48'
R 31.5'
℄ RTE. 100
INSTALL R3-5L
PROP. VIDEO DETECTION
55' MAST ARM
D3-1 SIGN
Manchester Meadows
INSTALL SIGNAL POLE #3
STA. 1519+48, 45.1' LT
INSTALL SIGN A
INSTALL PUSH BUTTON EXTENSION
EXIST. PULL BOX (R)
INSTALL CLASS 2 PULL BOX #4
STA. 1519+53, 57.4' LT
NEXT SIGNAL 1630' MASON RD. SPEED LIMIT = 45 MPH
12' LANE
11' LANE
EXIST. FIBER
EXIST. R/W
T.C.E.
PERM ESM'T
FO
PP

SHEET 14 OF 61

SIGNAL SHEET

MO ROUTE 100
MANCHESTER ROAD/
MANCHESTER MEADOWS

KENDRA MILLER
PROFESSIONAL ENGINEER
PE-2014041301

STATE OF MISSOURI
KENDRA MILLER
NUMBER PE-2014041301
PROFESSIONAL ENGINEER
THIS SHEET HAS BEEN SIGNED, SEALED, AND DATED ELECTRONICALLY.

DATE PREPARED
3/28/2025

MO ROUTE	STATE
100	MO
DISTRICT	SHEET NO.
SL	180

COUNTY
ST. LOUIS

JOB NO.
J6P3274

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)

GBA
16305 SWINGLEY RIDGE RD
ST. 300
CHESTERFIELD, MO 63017
314.231.0100
GBAteam.com

GEORGE BUTLER ASSOCIATES, INC.
PRO. ENGINEER 000133
ARCHITECT 000212
PRO. LAND SURVEYOR 000059

REV.

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

XXMSD-XXXXX, BASEMAPS 25-26N, 25M, 24-25K, 23-24J
c:*bms*gba-pw-01*regan hutchinson*dms05308*180_SG_04_J6P3274_i10.dgn
3/28/2025

EFFECTIVE: 07/01/2018

POST

| POST NUMBER | PULL BOX NUMBER | LOCATION APPROACH | LOCATION STATION | LOCATION OFFSET | BASE A 9 | BASE A 9.5 | BASE A 10 | BASE A 10.5 | BASE A 11 | BASE A 12 | BASE F 9 | BASE F 9.5 | BASE F 10 | BASE F 10.5 | BASE F 11 | BASE F 12 | BASE C | CONCRETE** (CU. YDS.) | PULL BOX PREFORMED CLASS 1 | PREFORMED CLASS 2 | PREFORMED CLASS 3 | PREFORMED CLASS 5 | CONCRETE STANDARD | CONCRETE DOUBLE, TYPE A | CONCRETE DOUBLE, TYPE B | DRAIN TYPE* I | DRAIN TYPE* II A | DRAIN TYPE* II B | DRAIN TYPE* II C | TOP MOUNT POST 4 FT. | TOP MOUNT POST 8 FT. | TYPE C & CL ARM LENGTH 30' | TYPE C & CL ARM LENGTH 55' | TYPE C & CL ARM LENGTH A | TYPE C & CL ARM LENGTH A | TYPE C & CL SIGNAL SPACING B | TYPE C & CL SIGNAL SPACING C | TYPE C & CL SIGNAL SPACING D | TYPE C & CL SIGNAL SPACING D' | TYPE C & CL SIGN SPACING B | TYPE C & CL SIGN SPACING C | TYPE C & CL SIGN SPACING D | TYPE C & CL SIGN SPACING D' | TYPE B & BL ARM LENGTH E | TYPE B & BL ARM LENGTH K | TYPE B & BL ARM LENGTH E | TYPE B & BL ARM LENGTH E | TYPE B & BL ARM LENGTH K | TYPE B & BL LEFT ARM E SIGNAL SPACING F | TYPE B & BL LEFT ARM E SIGNAL SPACING G | TYPE B & BL LEFT ARM E SIGNAL SPACING H | TYPE B & BL LEFT ARM E SIGNAL SPACING H' | TYPE B & BL LEFT ARM E SIGN SPACING F | TYPE B & BL LEFT ARM E SIGN SPACING G | TYPE B & BL LEFT ARM E SIGN SPACING H | TYPE B & BL LEFT ARM E SIGN SPACING H' | TYPE B & BL RIGHT ARM K SIGNAL SPACING L | TYPE B & BL RIGHT ARM K SIGNAL SPACING M | TYPE B & BL RIGHT ARM K SIGNAL SPACING N | TYPE B & BL RIGHT ARM K SIGNAL SPACING N' | TYPE B & BL RIGHT ARM K SIGN SPACING L | TYPE B & BL RIGHT ARM K SIGN SPACING M | TYPE B & BL RIGHT ARM K SIGN SPACING N | TYPE B & BL RIGHT ARM K SIGN SPACING N' | INCLUDED ANGLE | LUMINAIRE BRACKET ARM* 4 FT. | LUMINAIRE BRACKET ARM* 6 FT. | LUMINAIRE BRACKET ARM* 8 FT. | LUMINAIRE BRACKET ARM* 10 FT | LUMINAIRE BRACKET ARM* 12 FT | LUMINAIRE BRACKET ARM* 15 FT |
|---|---|---

EFFECTIVE: 10-01-2015

CONDUIT (WITH #14 TRACER WIRE)

FROM	TO	CENTER TO CENTER DISTANCE	LOOP DET.	TRENCH				PUSHED			MEDIAN			ON STRUCTURE			REMARKS
			1"	2"	3"	4"		2"	3"	4"	2"	3"	4"	2"	3"		
∅	∅ UPS	12'			(20')												FOR INFORMATIONAL PURPOSES
∅ UPS	☒	6'			10'												FOR LUMINAIRE CABLE
∅ UPS	1	13'			16'												2-3" CONDUIT
☒	1	19'			44'												
1	2	34'							32'								
2	(1)	15'			18'												
2	3	62'							60'								
3	(2)	12'			15'												
2	5	110'							108'								
5	(4)	9'			12'												
5	(5)	12'			13'												
5	4	55'							53'								
4	(3)	14'			17'												
SUBTOTALS					145'				253'								
TOTALS					145'				253'								

CABLE

FROM	TO	CENTER TO CENTER DISTANCE	POWER		CONTROL				CLOSED LOOP INTERCONNECT	LUMINAIRE		DETECTOR		FIBER		REMARKS
			1c#2	1c#8	2c #16	5c #16	7c #16	3c #16	3 PAIR #16	CONTROL 2c #12	POLE & BRACKET 1c #10	VIDEO (1)	CCTV	SINGLE-MODE	MULTI-MODE	
∅	∅ UPS	12'		(84')												FOR INFORMATIONAL PURPOSES
∅ UPS	☒	6'		66'												3-1C#6 CABLES
∅ UPS	1	69'					165'									SIGNAL HEAD 51
☒	1	69'					141'									SIGNAL HEAD 21
☒	1	69'					128'									SIGNAL HEAD 22
☒	1	69'										(145')				VIDEO V-2
☒	1	69'				100'										PEDESTRIAN HEAD 45
☒	1	69'			98'											PUSH BUTTON 45
☒	1	69'											103'			CCTV
☒	2	127'					206'									SIGNAL HEAD 31
☒	2	127'					195'									SIGNAL HEAD 32
☒	2	127'					184'									SIGNAL HEAD 33
☒	2	127'										(191')				VIDEO V-1
☒	3	231'					313'									SIGNAL HEAD 61
☒	3	231'					301'									SIGNAL HEAD 62
☒	3	231'					337'									SIGNAL HEAD 11
☒	3	231'					324'									SIGNAL HEAD 12
☒	3	231'										(318')				VIDEO V-4
☒	3	231'				274'										PEDESTRIAN HEAD 63
☒	3	231'			272'											PUSH BUTTON 63
☒	4	172'					249'									SIGNAL HEAD 41
☒	4	172'					237'									SIGNAL HEAD 42
☒	4	172'					228'									SIGNAL HEAD 43
☒	4	172'										(241')				VIDEO V-3
☒	4	172'				209'										PEDESTRIAN HEAD 44
☒	4	172'				209'										PEDESTRIAN HEAD 64
☒	4	172'			207'											PUSH BUTTON 64
☒	5	175'			210'											PUSH BUTTON 44
(1)	∅ UPS	61'								66'	90'					LUMINAIRE
(3)	∅ UPS	224'								236'	88'					LUMINAIRE
SUBTOTALS			66'	787'	792'	3008'				302'	178'	(895')	103'			
5% FOR SNAKING			69'	826'	832'	3158'				317'	187'	(940')	108'			
TOTALS			70'	830'	840'	3160'				320'	190'	(950')	110'			

(1) NO DIRECT PAY FOR REQUIRED VIDEO DETECTOR CABLE

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INTERSECTION ROUTE 100 & MANCHESTER MEADOWS

D-37B

SHEET 16 OF 61

SIGNAL SHEET

MO ROUTE 100
MANCHESTER MEADOWS
SIGNAL QUANTITIES

STATE OF MISSOURI
KENDRA MILLER
NUMBER PE-2014041301
PROFESSIONAL ENGINEER

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

DATE PREPARED
3/28/2025

MO ROUTE	STATE
100	MO
DISTRICT	SHEET NO.
SL	182

COUNTY
ST. LOUIS

JOB NO.
J6P3274

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)

GBA
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GEORGE BUTLER
ASSOCIATES, INC.
PRO. ENGINEER 000133
ARCHITECT 000212
PRO. LAND SURVEYOR 000059

KENDRA MILLER
PROFESSIONAL
ENGINEER
PE-2014041301

REV.

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EFFECTIVE 04-01-2018

POWER SUPPLY

LOCATION			POWER SUPPLY ASSEMBLY		CIRCUIT BREAKER TRIP RATING*				LIGHTING CONTROL * (ON POWER SUPPLY)		SERVICE POLE	
					CONTROLLER		POWER SUPPLY DISCONNECT					
							MAIN BREAKER					
APPROACH	STATION	OFFSET	DRAWING 902.15	SPECIAL DRAWING (4)	AUXILIARY BREAKER	CONT & SIGNAL LAMPS	SIGNALS	LIGHTING	120 VOLT CONTROL CABINET	MAIN BREAKER	CONTRACT FURNISH	UTILITY COMPANY
ROUTE 100	1520+46	73.1' RT	Type 2	-	15 Amps	30 Amps	100 Amps	100 Amps	1	15 Amps	CI. Ft.	EX
-	-	-	Type	-	- Amps	- Amps	- Amps	- Amps		- Amps	CI. Ft.	

CONTROLLER ASSEMBLY AND AUXILIARY EQUIPMENT

LOCATION			SYSTEM MASTER (CLOSED LOOP)		ACTUATED		ON-OFF* SWITCH TYPE		COORDINATION INTERFACE *						TIME * CLOCK	NEMA CABINET TYPE *			170 CABINET TYPE *		170 SOFTWARE *	
									12C/7C HARDWIRE (1)		TIME BASE	CLOSED LOOP		FIBER								
APPROACH	STATION	OFFSET	NEMA	170	NEMA	170	I	II	MASTER	LOCAL		NEMA	170			E	EV	DOUBLE	332	336S	BITRAN	WAPITI
ROUTE 100	1520+52	72.0' RT	-	-	1	-								1			1		-	-	-	-
-	-	-	-	-	-	-													-	-	-	-
-	-	-	-	-	-	-													-	-	-	-
-	-	-	-	-	-	-													-	-	-	-

SL DISTRICT TRAFFIC SIGNAL DETECTION SYSTEM (3)
TOTAL = 1 EACH

NETWORK CONNECTED SIGNAL MONITOR
TOTAL = 1 EACH

MODOT FURNISHED TRAFFIC SIGNAL CONTROLLER
TOTAL = 1 EACH

PAD MOUNTED 120V/240V SIGNAL POWER SUPPLY AND LIGHTING CONTROLLER WITH UNINTERRUPTIBLE POWER SUPPLY
TOTAL = 1 EACH

SIGNAL SIGNS

QUANTITY	MUTCD SIGN NUMBER	SIZE	AREA	SIGN TOTAL AREA ITEM NO. 90208.33	SIGNAL SIGN MOUNTING HARDWARE ITEM NO. 90208.34
		INCHES	SQ.FT.	SQ.FT.	EA.
	R10-10L	24 X 30	5.0		
	R10-10R	24 X 30	5.0		
3	R3-5L	30 X 36	7.5	22.5	3
	R3-5R	30 X 36	7.5		
	R3-5A	30 X 36	7.5		
	R3-6L	30 X 36	7.5		
	R3-6R	30 X 36	7.5		
	R3-2	24 X 24	4.0		
	R3-1	24 X 24	4.0		
	R3-3	24 X 24	4.0		
2	D3-1 ***	96 X 18	12.0	24.0	2
2	D3-1 ***	96 X 18	12.0	24.0	2
	D3-1B ***	VAR. X 18			
2	R10-3eL**	9 X 15	0.9	1.8	1
2	R10-3eR**	9 X 15	0.9	1.8	1
	R10-11A	24 X 30	5.0		
	R10-13	36 X 24	6.0		
1	R10-27A	30 X 36	7.5	7.5	1
			SUBTOTAL	78.0	8
			TOTAL	78	8

DETECTOR SCHEDULE

DETECTOR NUMBER	APPROACH	TYPE				
		AUDIBLE PUSH BUTTON	INDUCTION LOOP (2)			OPTIONAL DETECTION (3)
			STANDARD	DELAY/ EXTEND *	CALL UNIT *	
21, 22, 51	WB ROUTE 100	-	-	-	-	V4
-	-					
11, 12, 61, 62	EB ROUTE 100					V2
-	-					
31, 32, 33	NB MANCHESTER MEADOWS					V1
-	-					
41, 42, 43	SB MANCHESTER MEADOWS					V3
-	-					
44	ROUTE 100	1				
-	-					
45	ROUTE 100	1				
-	-					
63	MANCHESTER MEADOWS	1				
-	-					
64	MANCHESTER MEADOWS	1				
-	-					
-	-					
-	-					
-	-					
-	-					
-	-					
-	-					
-	-					
-	-					
-	-					
TOTAL		4				

CCTV CAMERA ASSEMBLY
TOTAL = 1 EACH

INSTALL CCTV CAMERA ASSEMBLY
TOTAL = 1 EACH

CCTV EXTENSION POLE, 20 FT. METALLIC FINISH
TOTAL = 1 EACH

**NOTE: NO DIRECT PAY FOR REQUIRED R10-3E SIGNS AND MOUNTING HARDWARE TO BE INCLUDED AS INCIDENTAL TO COST OF THE PUSH BUTTON.

PUSH BUTTON EXTENDER
TOTAL = 3 EACH

* ITEMS FOR WHICH SEPARATE PAYMENT WILL NOT BE MADE.

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

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

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

(3) SEE SL DISTRICT TRAFFIC SIGNAL DETECTION JSP FOR ADDITIONAL DETAILS. SIGNAL DETECTION SHALL BE PAID AS 1 PER INTERSECTION. THE CONTRACTOR SHALL PROVIDE AND INSTALL A VEHICLE DETECTION SYSTEM FULLY COVERING DETECTION ZONES AS SHOWN ON THE PLANS. THE METHOD CHOSEN SHALL COMPLY WITH MODOT'S STANDARDS AND SPECIFICATIONS. ALL EQUIPMENT USED IN THE SYSTEM SHALL BE IN ACCORDANCE WITH MODOT'S APPROVED PRODUCT LIST AND RECEIVE ST. LOUIS DISTRICT APPROVAL PRIOR TO INSTALLATION. THIS WILL BE A COMPLETE UNIT WITH ALL COSTS INCLUDED.

(4) POWER SUPPLY SHALL BE PAD MOUNTED 120V/240V POWER SUPPLY & LIGHTING CONTROLLER WITH UNINTERRUPTIBLE POWER SUPPLY. SEE DETAILS.

NEMA DETECTOR ASSIGNMENT

CHANNEL	CARD POSITION							
	1	2	3	4	5	6	7	8
1	-	SL DISTRICT TRAFFIC SIGNAL DETECTION SYSTEM (3)						-
2	-	-	-	-	-	-	-	-

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

NEMA LOAD SWITCH ASSIGNMENTS

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
Ø1 EBL	Ø2 WB	Ø3 NB	Ø4 SB	Ø5 WBL	Ø6 EB	NOT USED	NOT USED	NOT USED	NOT USED	OLC WBL	NOT USED	NOT USED	Ø4 PED	Ø6 PED	NOT USED

ROUTE 100 & MANCHESTER MEADOWS
INTERSECTION

SHEET 17 OF 61

SIGNAL SHEET

MO ROUTE 100
MANCHESTER MEADOWS
SIGNAL QUANTITIES

D-37C

STATE OF MISSOURI
KENDRA MILLER
NUMBER PE-2014041301
PROFESSIONAL ENGINEER

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

DATE PREPARED 3/28/2025
MO ROUTE 100 | STATE MO
DISTRICT SL | SHEET NO. 183
COUNTY ST. LOUIS
JOB NO. J6P3274
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)

GBA
16305 SWINGLEY RIDGE RD
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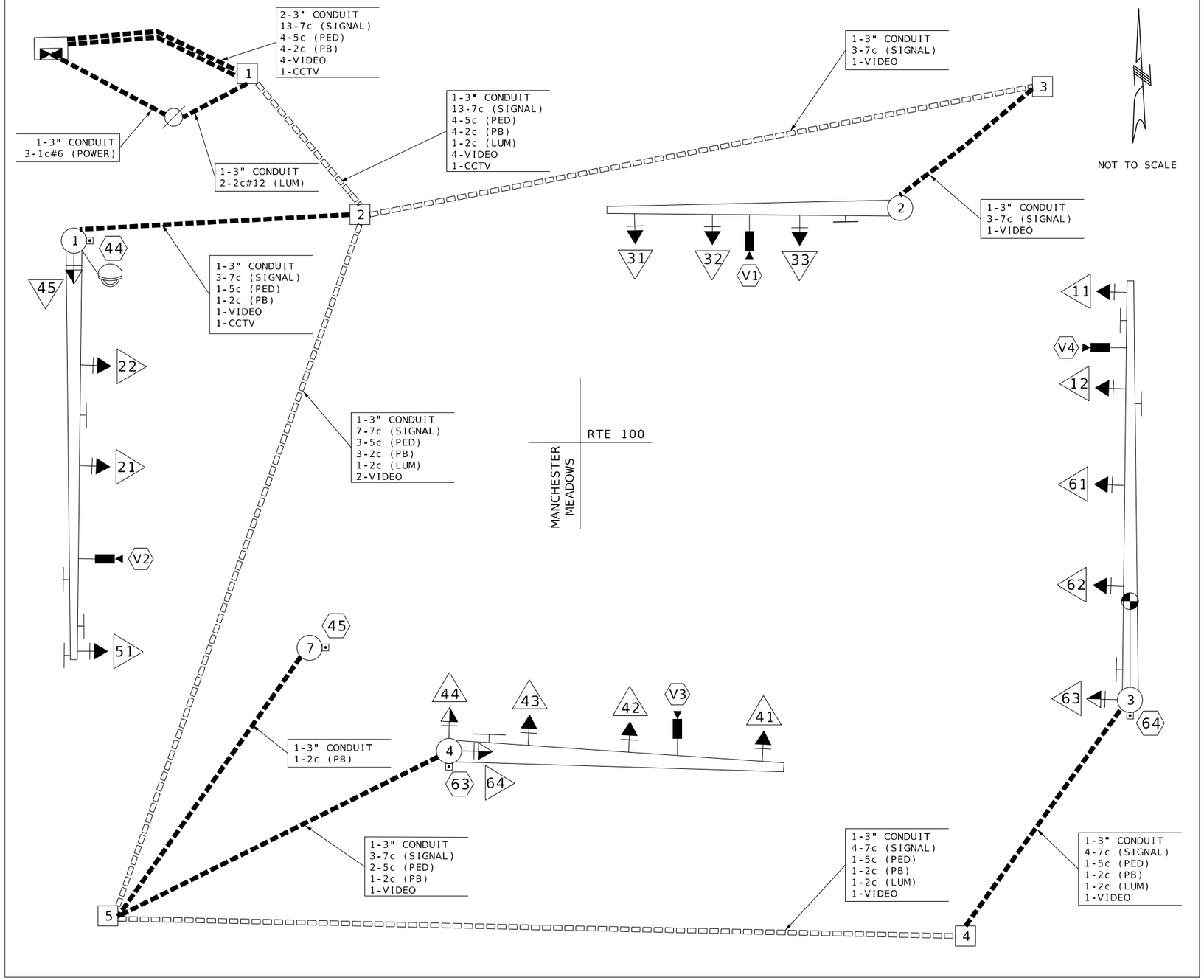
GEORGE BUTLER ASSOCIATES, INC.
PRO. ENGINEER 000133
ARCHITECT 000212
PRO. LAND SURVEYOR 000059

KENDRA MILLER
PROFESSIONAL ENGINEER
PE-2014041301

REV.

WIRING DIAGRAM



ROUTE 100 & MANCHESTER MEADOWS

INTERSECTION

LEGEND

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

DISCLAIMER EFFECTIVE 12-01-17

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KENDRA MILLER
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PROFESSIONAL ENGINEER

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DATE PREPARED: 3/28/2025

MO ROUTE	STATE
100	MO
DISTRICT	SHEET NO.
SL	184

COUNTY: ST. LOUIS

JOB NO.: J6P3274

CONTRACT ID.:

PROJECT NO.:

BRIDGE NO.:

DESCRIPTION	DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
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GEORGE BUTLER ASSOCIATES, INC.
PRO. ENGINEER 000133
ARCHITECT 000212
PRO. LAND SURVEYOR 000059

SHEET 18 OF 61

SIGNAL SHEET

MO ROUTE 100
MANCHESTER MEADOWS
SIGNAL QUANTITIES

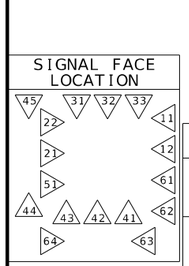
D-37D

KENDRA MILLER
PROFESSIONAL ENGINEER
PE-2014041301

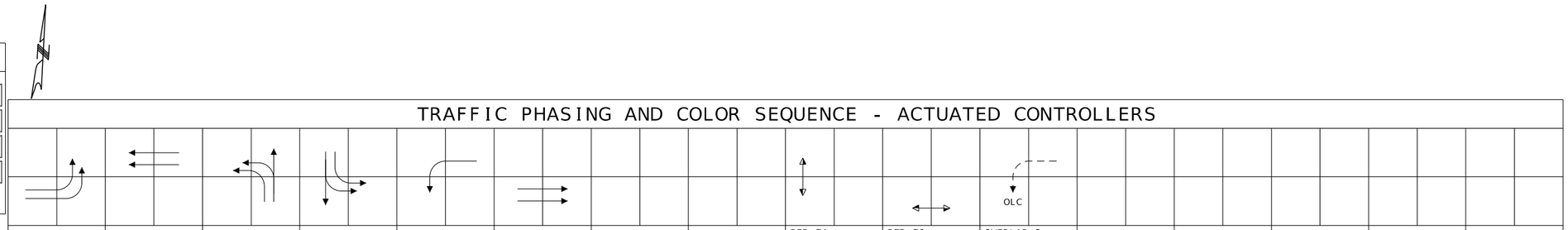
REV.

EFFECTIVE 12/01/2017

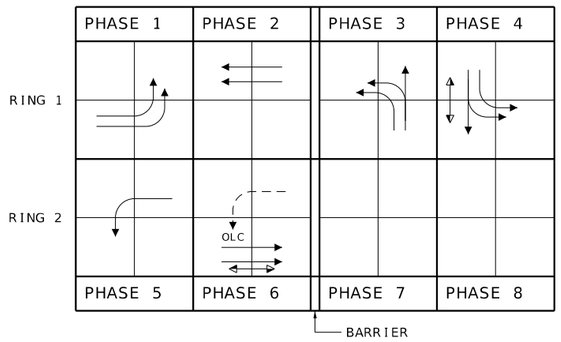
SIGNAL FACE LOCATION



TRAFFIC PHASING AND COLOR SEQUENCE - ACTUATED CONTROLLERS



	PHASE 1	PHASE 2	PHASE 3	PHASE 4	PHASE 5	PHASE 6	PHASE 7	PHASE 8	PED Ø4	PED Ø6	OVERLAP C	
FACE NUMBERS	11 12	21 22	31 32 33	41 42 43	51	61 62			44 45	63 64	51	FACE NUMBERS
SIGNAL INDICATIONS R	RL	R	RL R R	RL R R		R			DW	DW	RL	R
SIGNAL INDICATIONS Y	YL	Y	YL Y Y	YL Y Y		Y					YL	Y
SIGNAL INDICATIONS FYA											FYL	FYA
SIGNAL INDICATIONS G	L	G	L S G L	L S G L	L	G			W	W		G
DETECTOR ASSIGNMENTS	11 12	21 22	31 32 33	41 42 43	51	61 62						DETECTOR ASSIGNMENTS
DETECTOR ASSIGNMENTS (PEDS. ONLY)									23 24	44 45		
OVERLAP PARENT PHASES											6	



RING STRUCTURE

IF CALLED, ALL NON-CONFLICTING PHASES SHALL COMBINE AND TIME CONCURRENTLY. TIME TO BE DETERMINED BY THE ENGINEER AT SIGNAL TURN ON AND SET IN THE CONTROLLER BY THE CONTRACTOR.

LEGEND

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

FLASHING OPERATION	
ROUTE 100	FR
MANCHESTER MEADOWS	FR

CONTROLLER TYPE	NEMA

TRAFFIC SIGNAL CONTROL OPERATION

INTERSECTION OF
ROUTE 100 & MANCHESTER MEADOWS

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SHEET 19 OF 61

SIGNAL SHEET

MO ROUTE 100
MANCHESTER MEADOWS
SIGNAL QUANTITIES

D-38A

STATE OF MISSOURI
KENDRA MILLER
NUMBER PE-2014041301
PROFESSIONAL ENGINEER

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

DATE PREPARED 3/28/2025

MO ROUTE	STATE
100	MO
DISTRICT	SHEET NO.
SL	185

COUNTY ST. LOUIS
JOB NO. J6P3274
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)

GBA
16305 SWINGLEY RIDGE RD
ST. 300
CHESTERFIELD, MO 63017
314.231.0100
GBAteam.com

GEORGE BUTLER
ASSOCIATES, INC.
PRO. ENGINEER 000133
ARCHITECT 000212
PRO. LAND SURVEYOR 000059

KENDRA MILLER
PROFESSIONAL
ENGINEER
PE-2014041301

SCALE
0 10 20 30

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STATE OF MISSOURI
CASSANDRA MCKEE LEE
NUMBER PE-2023025373
PROFESSIONAL ENGINEER
03/27/2025
Cassandra McKee Lee - Civil
MO PE-2023025373

DATE PREPARED 3/27/2025
US ROUTE 100 | STATE MO
DISTRICT SL | SHEET NO. 186
COUNTY ST. LOUIS
JOB NO. J6P3274
CONTRACT ID.
PROJECT NO.
BRIDGE NO.

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MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
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ENGINEERING CORPORATION - 000631

SHEET 20 OF 61

SIGNAL SHEET

ROUTE 100
MANCHESTER ROAD/
WEIDMAN ROAD

NOTES:
1. REMOVE EXISTING LOOP DETECTION SYSTEM EQUIPMENT AND INSTALL NEW OPTIONAL TYPE SIGNAL DETECTION.
2. NEW PEDESTRIAN PUSHBUTTON POSTS (1, 2, 3, 4, 5) SHALL BE BREAKAWAY BASES WITH 4' POSTS & APS BUTTONS.
3. REMOVE EXISTING PEDESTRIAN HEADS FROM SIGNAL POSTS (EX1, EX2, EX3, EX4).

SIGN R10-3EL SIGN R10-3ER
INSTALLED ABOVE PUSH BUTTONS

EFFECTIVE: 07-01-2018

POST NUMBER	PULL BOX NUMBER	LOCATION: APPROACH	LOCATION: STATION	LOCATION: OFFSET	BASE: A 9	A 9.5	A 10	A 10.5	A 11	A 12	F 9	F 9.5	F 10	F 10.5	F 11	F 12	BASE: C	CONCRETE** (CU. YARDS)	PULL BOX: PREFORMED CLASS 1	CLASS 2	CLASS 3	CLASS 5	CONCRETE STANDARD	DOUBLE, TYPE A	DOUBLE, TYPE B	ADJUST TO GRADE	DRAIN TYPE* I	DRAIN TYPE* II A	II B	II C	4' PED POST	TOP MOUNT POST 8 FT.	TOP MOUNT POST 15 FT.
		CONTROLLER (AS REQ'D)																															
1		RTE 100	1537+07.07	49.04' RT														(1)													1			
2		RTE 100	1537+67.77	40.67' RT														(1)													1			
3		RTE 100	1537+77.05	38.71' RT														(1)													1			
4		RTE 100	1537+58.78	49.81' LT														(1)													1			
5		RTE 100	1536+87.20	41.38' LT														(1)													1			
	EX5	RTE 100	1538+15.01	53.96' LT																						1								
	EX6	RTE 100	1536+99.58	43.84' LT																						1								
	EX7	RTE 100	1536+56.17	72.86' LT																						1								
SUBTOTAL																										3					5		
TOTAL																										3					5		

POST NUMBER	PULL BOX NUMBER	POST: TYPE C & CL ARM LENGTH A	A	A	A	SIGNAL SPACING B	C	D	D'	SIGN SPACING B	C	D	D'	TYPE B & BL ARM LENGTH E	K	E	K	E	K	LEFT ARM E SIGNAL SPACING F	G	H	H'	LEFT ARM E SIGN SPACING F	G	H	H'	RIGHT ARM K SIGNAL SPACING L	M	N	N'	RIGHT ARM K SIGN SPACING L	M	N	N'	INCLUDED ANGLE	LUMINAIRE BRACKET ARM** 4 FT.	6 FT.	8 FT.	10 FT.	12 FT.	15 FT.
1																																									
2																																									
3																																									
4																																									
5																																									
	EX5																																								
	EX6																																								
	EX7																																								
SUBTOTAL																																								
TOTAL																																								

(1) NO DIRECT PAY FOR REQUIRED BASE MATERIAL ASSOCIATED WITH 4' PEDESTRIAN PUSH BUTTON STANCHION. SEE JSP FOR DETAILS.

NOTE:
SIGNAL & SIGN SPACING SHOWN IS APPROXIMATE. CONTRACTOR SHALL ADJUST AS NECESSARY

SIGNAL HEADS

| SPAN NUMBER | POST NUMBER | FACE NUMBER | LUMINAIRE LED A | INDICATIONS* 12" LENS CONVENTIONAL R | Y | YL | Yr† | FYL | FYR | G | S | L | R† | 1 | INDICATIONS* 12" LENS OPTICAL LIMITING R | Y | YL | Yr† | FYL | FYR | G | S | L | R† | VISORS* 12" LENS | PED | LOUVERS* A | B | C | D | E | F | BACKPLATE* LENSES 1 | 2 | 3 | 4 | 5 | RETROREFLECTIVE BACKPLATE* LENSES 1 | 2 | 3 | 4 | 5 | BRACKET* TYPE I | II | III | ONE FACE SECTION 1- T | S | C | B | 2- T | S | C | B | 3- T | S | C | B | 4- T | S | C | B | TWO FACE SECTIONS 11- T | S | B | 33- T | S | C | B | 34- S | B | 44- S | B | 45- S | B |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---

EFFECTIVE: 10-01-2015

CONDUIT (WITH #14 TRACER WIRE)

FROM	TO	CENTER TO CENTER DISTANCE	LOOP DET.	TRENCH				PUSHED			MEDIAN			ON STRUCTURE			REMARKS
			1"	2"	3"	4"	2" RIGID STEEL *	2"	3"	4"	2"	3"	4"	2"	3"		
EX1	EX2	55'							53'								
EX2	1	15'							14'								
EX2	EX3	82'							80'								
EX3	2	20'							21'								
EX3	3	14'							15'								
EX2	EX6	84'							82'								
EX6	5	17'							18'								
EX6	EX4	76'							74'								
EX4	4	20'							21'								

EFFECTIVE: 04-01-2018

POWER SUPPLY

LOCATION			POWER SUPPLY ASSEMBLY		CIRCUIT BREAKER TRIP RATING✱				LIGHTING CONTROL ✱ (ON POWER SUPPLY)		SERVICE POLE	
APPROACH	STATION	OFFSET	DRAWING 902.15	SPECIAL DRAWING (4)	CONTROLLER		POWER SUPPLY DISCONNECT				CONTRACT FURNISH	UTILITY COMPANY
					AUXILIARY BREAKER	CONT & SIGNAL LAMPS	MAIN BREAKER		120 VOLT CONTROL CABINET	MAIN BREAKER		
							SIGNALS	LIGHTING				
(USE EXIST. EQUIPMENT)				-	- Amps	- Amps	- Amps	- Amps		- Amps	Ci. Ft.	AMEREN
			Type		Amps	Amps	Amps	Amps		Amps	Ci. Ft.	

CONTROLLER ASSEMBLY AND AUXILIARY EQUIPMENT

LOCATION			SYSTEM MASTER (CLOSED LOOP)		ACTUATED		ON-OFF✱ SWITCH		COORDINATION INTERFACE ✱						TIME ✱ CLOCK	NEMA CABINET TYPE ✱			170 CABINET TYPE ✱		170 SOFTWARE ✱	
APPROACH	STATION	OFFSET					TYPE		12C/7C HARDWIRE (1)		TIME BASE	CLOSED LOOP		FIBER								
			NEMA	170	NEMA	170	I	II	MASTER	LOCAL		NEMA	170			E	EV	DOUBLE	332	336S	BITRAN	WAPITI
RTE 100	1536+85.24	89.6'	-	(USE EXIST EQUIPMENT)	-	-	-	-	-	(USE EXIST EQUIPMENT)	-	-	-	-	-	(USE EXIST CABINET)	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

NEMA DETECTOR ASSIGNMENT

		CARD POSITION							
		1	2	3	4	5	6	7	8
CHANNEL	1		SL DISTRICT TRAFFIC SIGNAL DETECTION SYSTEM (3)						
	2								

DETECTOR SCHEDULE

DETECTOR NUMBER	APPROACH	TYPE				
		AUDIBLE PUSH BUTTON	INDUCTION LOOP (2)			VIDEO
			STANDARD	DELAY/ EXTEND ✱	CALL UNIT ✱	
22	SB WEIDMAN	1				
23	NB WEIDMAN	1				
44	EB RTE 100	1				
45	WB RTE 100	1				
63	SB WEIDMAN	1				
62	NB WEIDMAN	1				
35	EB RTE 100	1				
34	WB RTE 100	1				
40	SBL WEIDMAN RD					V1
41	SBL WEIDMAN RD					V1
42	SB WEIDMAN RD					V1
10	EBL RTE 100					V2
60	EB RTE 100					V2
61	EB RTE 100					V2
30	NBL WEIDMAN RD					V3
31	NBL WEIDMAN RD					V3
32	NB WEIDMAN RD					V3
50	WBL RTE 100					V4
20	WB RTE 100					V4
21	WB RTE 100					V4
	TOTAL	8				

✱ ITEMS FOR WHICH SEPARATE PAYMENT WILL NOT BE MADE.

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

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

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

(3) SEE SL DISTRICT TRAFFIC SIGNAL DETECTION JSP FOR ADDITIONAL DETAILS. SIGNAL DETECTION SHALL BE PAID AS 1 PER INTERSECTION. THE CONTRACTOR SHALL PROVIDE AND INSTALL A VEHICLE DETECTION SYSTEM FULLY COVERING DETECTION ZONES AS SHOWN ON THE PLANS. THE METHOD CHOSEN SHALL COMPLY WITH MODOT'S STANDARDS AND SPECIFICATIONS.ALL EQUIPMENT USED IN THE SYSTEM SHALL BE IN ACCORDANCE WITH MODOT'S APPROVED PRODUCT LIST AND RECEIVE COMPLETE UNIT WITH ALL COSTS INCLUDED.

SIGNAL SIGNS

QUANTITY	MUTCD SIGN NUMBER	SIZE	AREA	SIGN TOTAL AREA	SIGNAL SIGN MOUNTING HARDWARE
				ITEM NO. 90208.33	ITEM NO. 90208.34
		INCHES	SQ.FT.	SQ.FT.	EA.
	R10-10L	24 X 30	5.0		
	R10-10R	24 X 30	5.0		
	R3-5L	30 X 36	7.5		
	R3-5R	30 X 36	7.5		
	R3-5A	30 X 36	7.5		
	R3-6L	30 X 36	7.5		
	R3-6R	30 X 36	7.5		
	R3-2	24 X 24	4.0		
	R3-1	24 X 24	4.0		
	R3-3	24 X 24	4.0		
	D3-1 ✱✱✱	VAR. X 18			
	D3-1B ✱✱✱	VAR. X 18			
7	R10-3EL	9 X 15	0.9	6.3✱	7✱
1	R10-3ER	9 X 15	0.9	0.9✱	1✱
	R10-11A	24 X 30	5.0		
	R10-13	36 X 24	6.0		
	R10-27A	30 X 36	7.5		
			SUBTOTAL		
			TOTAL		

NOTE: PAYMENT FOR PUSH BUTTON SIGNS (R10-3E) & MOUNTING HARDWARE ARE TO BE INCIDENTAL TO THE COST OF THE PUSH BUTTON

SL DISTRICT TRAFFIC SIGNAL DETECTION SYSTEM (3)

TOTAL = 1 EACH

NEMA LOAD SWITCH ASSIGNMENTS

1	2	3	4	5	6	7	8	9	10	11	12
OLA EBL FYA	Ø 2 WBT	Ø 3 NBL NBT	Ø 4 SBL SBT	OLC WBL FYA	Ø 6 EBT	NOT USED	NOT USED	Ø 1 EBL Ø 2 PED	Ø 4 PED	Ø 5 WBL Ø 6 PED	Ø 3 PED

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ROUTE 100 MANCHESTER ROAD/WEIDMAN ROAD

INTERSECTION

STATE OF MISSOURI
CASSANDRA MCKEE LEE
NUMBER PE-2023025373
PROFESSIONAL ENGINEER

03/27/2025
Cassandra McKee Lee - Civil
MO PE-2023025373

DATE PREPARED
3/27/2025

US ROUTE	STATE
100	MO
DISTRICT	SHEET NO.
SL	189

COUNTY
ST. LOUIS

JOB NO.
J6P3274

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)

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ST. LOUIS, MO 63102 (314) 436-5500
ENGINEERING CORPORATION - 000631

SHEET 23 OF 61

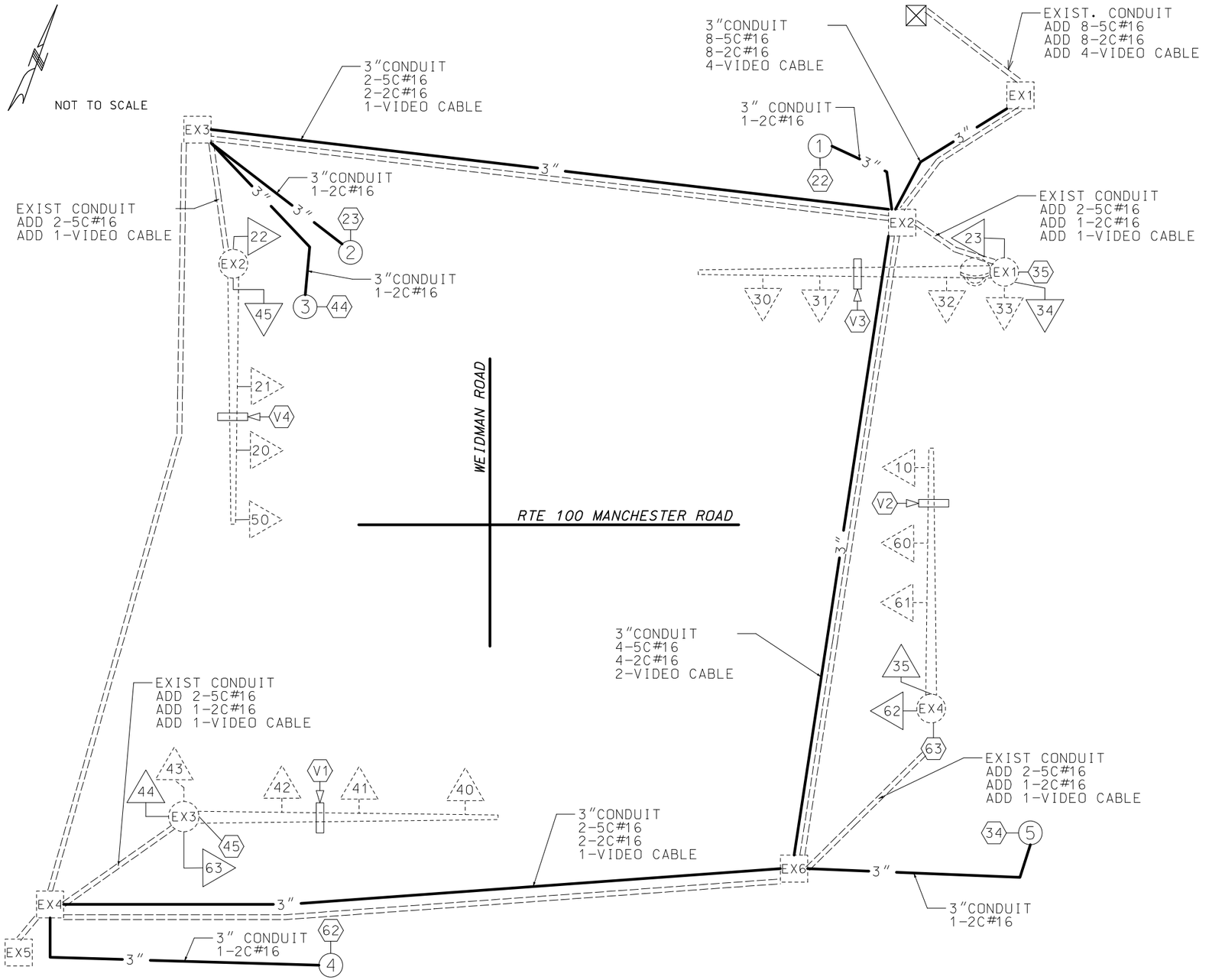
SIGNAL SHEET

ROUTE 100
MANCHESTER ROAD/
WEIDMAN ROAD

D37-C

WIRING DIAGRAM

EFFECTIVE: 12-01-17



LEGEND

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

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ROUTE 100 MANCHESTER ROAD/WEIDMAN ROAD

INTERSECTION

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PROFESSIONAL ENGINEER
03/27/2025
Cassandra McKee Lee - Civil
MO PE-2023025373

DATE PREPARED 3/27/2025

US ROUTE	STATE
100	MO
DISTRICT	SHEET NO.
SL	190

COUNTY: ST. LOUIS
JOB NO.: J6P3274
CONTRACT ID.:
PROJECT NO.:
BRIDGE NO.:

DESCRIPTION | DATE

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SHEET 24 OF 61

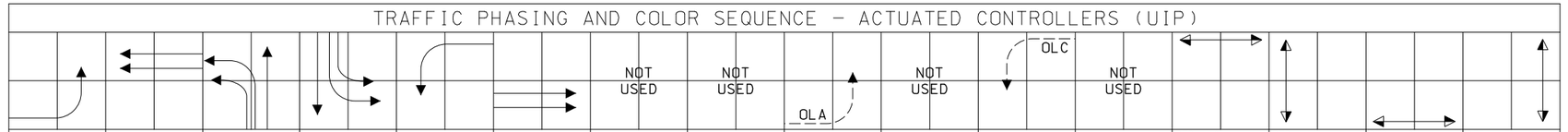
SIGNAL SHEET

ROUTE 100
MANCHESTER ROAD/
WEIDMAN ROAD

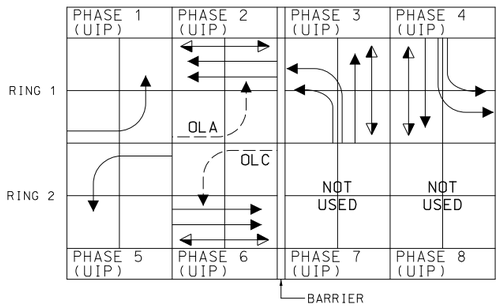
D37-D

EFFECTIVE: 12-01-17

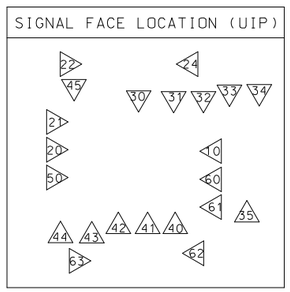
TRAFFIC PHASING AND COLOR SEQUENCE – ACTUATED CONTROLLERS (UIP)



		PHASE 1	PHASE 2	PHASE 3	PHASE 4	PHASE 5	PHASE 6	PHASE 7	PHASE 8	OVERLAP A	OVERLAP B	OVERLAP C	OVERLAP D	PED Φ 2	PED Φ 4	PED Φ 6	PED Φ 3	
FACE NUMBERS		10	20 21	30 32 31 33	40 42 41 43	50	60 61			10		50		22 23	44 45	62 63	34 35	FACE NUMBERS
SIGNAL INDICATIONS	R		R	RL R	RL R		R			RL		RL		DW	DW	DW	DW	R
	Y		Y	YL Y	YL Y		Y			YL		YL						Y
	FYA									FYL		FYL						FYA
	G L		G	L G	L G	L	G							W	W	W	W	G
DETECTOR ASSIGNMENTS		V2	V4	V3 V3	V1 V1	V4	V2											DETECTOR ASSIGNMENTS
DETECTOR ASSIGNMENTS (PEDS. ONLY)														22 23	62 63	34 35	44 45	
OVERLAP PARENT PHASES										2		6						



RING STRUCTURE



IF CALLED, ALL NON-CONFLICTING PHASES SHALL COMBINE AND TIME CONCURRENTLY. TIME TO BE DETERMINED BY THE ENGINEER AT SIGNAL TURN ON AND SET IN THE CONTROLLER BY THE CONTRACTOR.

LEGEND

- → — ACTUATED VEHICULAR MOVEMENT
- → — PARTIALLY RESTRICTED ACTUATED VEHICULAR MOVEMENT
- ▷ — NON-ACTUATED VEHICULAR MOVEMENT
- ▷ — PARTIALLY RESTRICTED NON-ACTUATED VEHICULAR MOVEMENT
- → — ACTUATED PEDESTRIAN MOVEMENT
- ▷ — NON-ACTUATED PEDESTRIAN MOVEMENT
- ⊣ — VEHICLE STOPPED
- FDW — FLASHING DON'T WALK
- W — WALK
- DW — DON'T WALK
- R/W — RIGHT OF WAY INTERVAL
- YR† — YELLOW RIGHT ARROW
- RT. — GREEN RIGHT ARROW
- LY –YL — YELLOW LEFT ARROW
- L — GREEN LEFT ARROW
- S — GREEN STRAIGHT AHEAD ARROW
- G — CIRCULAR GREEN
- Y — CIRCULAR YELLOW
- R — CIRCULAR RED
- RL — RED LEFT ARROW
- Ø — TRAFFIC PHASE
- AO — ALL OTHERS
- FR — FLASHING RED
- FY — FLASHING CIRCULAR YELLOW
- FYL — FLASHING YELLOW LEFT ARROW

FLASHING OPERATION	
ALL	FR (UIP)
CONTROLLER TYPE	NEMA 8Φ (UIP)

TRAFFIC SIGNAL CONTROL OPERATION
INTERSECTION OF ROUTE 100 MANCHESTER ROAD
WITH WEIDMAN ROAD

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ROUTE 100 MANCHESTER ROAD/WEIDMAN ROAD
INTERSECTION

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CASSANDRA MCKEE LEE
NUMBER PE-2023025373
PROFESSIONAL ENGINEER
03/27/2025
Cassandra McKee Lee - Civil
MO PE-2023025373

DATE PREPARED: 3/27/2025
US ROUTE: 100 | STATE: MO
DISTRICT: SL | SHEET NO.: 191
COUNTY: ST. LOUIS
JOB NO.: J6P3274
CONTRACT ID.:
PROJECT NO.:
BRIDGE NO.:

DESCRIPTION	DATE

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ENGINEERING CORPORATION - 000631

SHEET 25 OF 61
SIGNAL SHEET
ROUTE 100 MANCHESTER ROAD/ WEIDMAN ROAD
D38-A

SCALE
0 10 20 30

℄ BRAESHIRE DR

COMMERCIAL

EXIST. R/W

EXIST. SIGNAL CONTROLLER (UIP)

EXIST. POWER SUPPLY (UIP)

PROP. CCTV CAMERA ON EXTENSION POLE

NEXT SIGNAL 1020′
KNOLLHAVE ROAD
1.17%
SPEED LIMIT = 45 MPH

NEXT SIGNAL N/A
5.01%
SPEED LIMIT = N/A

11′ LANE

8′ POST

STA. 1552+97.00 (ROUTE 100) =
STA. 5+00.00 (BRAESHIRE)

STA. 1552+87.31 (ROUTE 100) =
STA. 5+00.00 (BRAESHIRE)

CONST. ℄ ROUTE 100.

14′ LANE

11′ LANE

11′ LANE

12′ LANE

12′ LANE

12′ LANE

13.5′ LANE

NEXT SIGNAL 1560′
WEIDMAN ROAD
1.02%
SPEED LIMIT = 45 MPH

EXIST RAISED 6″ CONC. ISLAND (R)

P.H.E.

EXIST. ESM'T

NEXT SIGNAL N/A
2.38%
SPEED LIMIT = 25 MPH

12′ LANE

16.5′ LANE

T.C.E.

NOTES:
1. REMOVE EXISTING VIDEO DETECTION SYSTEM EQUIPMENT AND INSTALL NEW OPTIONAL TYPE SIGNAL DETECTION.
3. NEW PEDESTRIAN SIGNAL POST (1, 2, 3, 4, 5) SHALL BE TYPE C BASE WITH 8′ POST, COUNTDOWN PED HEAD & APS PUSHBUTTON.
4. REMOVE EXISTING R10-12 SIGNS FROM MAST ARMS (EX2, EX4).

START CROSSING Watch For Vehicles
DON'T START Finish Crossing If Started
TIME REMAINING To Finish Crossing
DON'T CROSS
PUSH BUTTON TO CROSS

OR

22 23 82 62 63

83

SIGN R10-3EL SIGN R10-3ER
INSTALLED ABOVE PUSH BUTTONS

Ø1 + Ø5 Ø2 + Ø6 Ø4 + Ø8

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03/27/2025
Cassandra McKee Lee - Civil
MO PE-2023025373

DATE PREPARED
3/27/2025

US ROUTE	STATE
100	MO
DISTRICT	SHEET NO.
SL	192

COUNTY
ST. LOUIS

JOB NO.
J6P3274

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

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ENGINEERING CORPORATION - 000631

SHEET 26 OF 61

SIGNAL SHEET

ROUTE 100
MANCHESTER ROAD/
BRAESHIRE DRIVE

EFFECTIVE: 07-01-2018

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

EFFECTIVE: 10-01-2015

CONDUIT (WITH #14 TRACER WIRE)

FROM	TO	CENTER TO CENTER DISTANCE	LOOP DET.	TRENCH				PUSHED			MEDIAN			ON STRUCTURE			REMARKS
			1"	2"	3"	4"	2" RIGID STEEL *	2"	3"	4"	2"	3"	4"	2"	3"		
EX2	EX10	112'							110'								
EX10	5	13'			14'												
EX1	EX3	67'							65'								
EX3	1	7'			8'												
EX3	2	35'			36'												
EX3	EX7	112'							110'								
EX7	3	8'			9'												
EX7	4	18'			19'												
SUBTOTALS					86'				285'								
TOTALS					86'				285'								

CABLE

FROM	TO	CENTER TO CENTER DISTANCE	POWER		CONTROL				CLOSED LOOP INTERCONNECT	LUMINAIRE		DETECTOR			FIBER		REMARKS
			1c #8	1c #2 *	2c #16	5c #16	7c #16	3c #16	3 PAIR #16	CONTROL 2c #12	POLE & BRACKET 1c #10	1c #14 IN DUCT	2c #14 LEAD-IN CABLE	VIDEO CABLE*	SINGLE MODE	CCTV CAMERA CABLE	
☒	EX2	29'				59'											PEDESTRIAN HEAD 23
☒	EX1	29'			58'												PUSH BUTTON 24
☒	EX1	29'												(108')			VIDEO V-4
☒	EX3	29'														84'	CCTV
☒	EX2	86'												(156')			VIDEO V-3
☒	1	86'				116'											PEDESTRIAN HEAD 24
☒	1	86'			115'												PUSH BUTTON 23
☒	2	115'				145'											PEDESTRIAN HEAD 82
☒	2	115'			144'												PUSH BUTTON 83
☒	3	198'				234'											PEDESTRIAN HEAD 83
☒	3	198'			233'												PUSH BUTTON 82
☒	4	208'				244'											PEDESTRIAN HEAD 62
☒	4	208'			243'												PUSH BUTTON 63
☒	EX3	196'												(272')			VIDEO V-2
☒	5	144'				186'											PEDESTRIAN HEAD 63
☒	5	144'			185'												PUSH BUTTON 62
☒	EX4	149'												(231')			VIDEO V-1
☒	EX1	29'					82'										SIGNAL HEAD 22
SUBTOTALS					978'	984'	82'							(767')		84'	
5% FOR SNAKING					1027'	1033'	86'							(805')		88'	
TOTALS					1030'	1040'	90'							(810')		90'	

*QUANTITY SHOWN FOR INFORMATION PURPOSES. NO DIRECT PAY.

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ROUTE 100 MANCHESTER ROAD/BRAESHIRE DRIVE

INTERSECTION

STATE OF MISSOURI
CASSANDRA MCKEE LEE
NUMBER PE-2023025373
PROFESSIONAL ENGINEER
03/27/2025
Cassandra McKee Lee - Civil
MO PE-2023025373

DATE PREPARED
3/27/2025

US ROUTE	STATE
100	MO
DISTRICT	SHEET NO.
SL	194

COUNTY
ST. LOUIS

JOB NO.
J6P3274

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DESCRIPTION

DATE

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

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

105 WEST CAPITOL
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ENGINEERING CORPORATION - 000631

SHEET 28 OF 61

SIGNAL SHEET

ROUTE 100
MANCHESTER ROAD/
BRAESHIRE DRIVE

D37-B

EFFECTIVE: 04-01-2018

POWER SUPPLY

LOCATION			POWER SUPPLY ASSEMBLY		CIRCUIT BREAKER TRIP RATING*				LIGHTING CONTROL * (ON POWER SUPPLY)		SERVICE POLE	
					CONTROLLER		POWER SUPPLY DISCONNECT					
							MAIN BREAKER					
APPROACH	STATION	OFFSET	DRAWING 902.15	SPECIAL DRAWING (4)	AUXILIARY BREAKER	CONT & SIGNAL LAMPS	SIGNALS	LIGHTING	120 VOLT CONTROL CABINET	MAIN BREAKER	CONTRACT FURNISH	UTILITY COMPANY
(USE EXIST. EQUIPMENT)				-	15 Amps	- Amps	100 Amps	- Amps		- Amps	Ci. Ft.	AMEREN
			Type		Amps	Amps	Amps	Amps		Amps	Ci. Ft.	

CONTROLLER ASSEMBLY AND AUXILIARY EQUIPMENT

LOCATION			SYSTEM MASTER (CLOSED LOOP)		ACTUATED		ON-OFF* SWITCH		COORDINATION INTERFACE *						TIME * CLOCK	NEMA CABINET TYPE *			170 CABINET TYPE *	170 SOFTWARE *		
							TYPE		12C/7C HARDWIRE (1)		TIME BASE	CLOSED LOOP										
APPROACH	STATION	OFFSET	NEMA	170	NEMA	170	I	II	MASTER	LOCAL		NEMA	170	FIBER		E	EV	DOUBLE	332	336S	BITRAN	WAPITI
RTE 100	1553+59.47	63.25'	-	(USE EXIST. EQUIPMENT)			-	-	-	(USE EXIST. EQUIPMENT)				-	-	(USE EXIST. CABINET)			-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

NEMA DETECTOR ASSIGNMENT

		CARD POSITION							
		1	2	3	4	5	6	7	8
CHANNEL	1		SL DISTRICT TRAFFIC SIGNAL DETECTION SYSTEM (3)						
	2								

DETECTOR SCHEDULE

DETECTOR NUMBER	APPROACH	TYPE				
		AUDIBLE PUSH BUTTON	INDUCTION LOOP (2)			VIDEO
			STANDARD	DELAY/ EXTEND *	CALL UNIT *	
23	WB BRAESHIRE	1				
24	EB BRAESHIRE	1				
82	SB RTE 100	1				
83	NB RTE 100	1				
62	EB BRAESHIRE	1				
63	WB BRAESHIRE	1				
40	SB BRAESHIRE					V1
41	SB BRAESHIRE					V1
10	EBL RTE 100					V2
60	EB RTE 100					V2
61	EB RTE 100					V2
80	NB BRAESHIRE					V3
81	NB BRAESHIRE					V3
50	WB RTE100					V4
20	WB RTE100					V4
21	WB RTE100					V4
22	WB RTE100					V4
TOTAL		6				

* ITEMS FOR WHICH SEPARATE PAYMENT WILL NOT BE MADE.

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

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

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

(3) SEE SL DISTRICT TRAFFIC SIGNAL DETECTION JSP FOR ADDITIONAL DETAILS. SIGNAL DETECTION SHALL BE PAID AS 1 PER INTERSECTION. THE CONTRACTOR SHALL PROVIDE AND INSTALL A VEHICLE DETECTION SYSTEM FULLY COVERING DETECTION ZONES AS SHOWN ON THE PLANS. THE METHOD CHOSEN SHALL COMPLY WITH MODOT'S STANDARDS AND SPECIFICATIONS. ALL EQUIPMENT USED IN THE SYSTEM SHALL BE IN ACCORDANCE WITH MODOT'S APPROVED PRODUCT LIST AND RECEIVE COMPLETE UNIT WITH ALL COSTS INCLUDED.

SIGNAL SIGNS

QUANTITY	MUTCD SIGN NUMBER	SIZE	AREA	SIGN TOTAL AREA	SIGNAL SIGN MOUNTING HARDWARE
				ITEM NO. 90208.33	ITEM NO. 90208.34
		INCHES	SQ.FT.	SQ.FT.	EA.
	R10-10L	24 X 30	5.0		
	R10-10R	24 X 30	5.0		
	R3-5L	30 X 36	7.5		
	R3-5R	30 X 36	7.5		
	R3-5A	30 X 36	7.5		
	R3-6L	30 X 36	7.5		
	R3-6R	30 X 36	7.5		
	R3-2	24 X 24	4.0		
	R3-1	24 X 24	4.0		
	R3-3	24 X 24	4.0		
	D3-1 ***	VAR. X 18			
	D3-1B ***	VAR. X 18			
5	R10-3EL	9 X 15	0.9	4.5*	5*
1	R10-3ER	9 X 15	0.9	0.9*	1*
	R10-11A	24 X 30	5.0		
	R10-13	36 X 24	6.0		
	R10-27A	30 X 36	7.5		
			SUBTOTAL		
			TOTAL		

NOTE: PAYMENT FOR PUSH BUTTON SIGNS (R10-3E) & MOUNTING HARDWARE ARE TO BE INCIDENTAL TO THE COST OF THE PUSH BUTTON

NEMA LOAD SWITCH ASSIGNMENTS

1 (UIP)	2 (UIP)	3	4 (UIP)	5 (UIP)	6 (UIP)	7	8 (UIP)	9*	10	11*	12
OLA FYA	Ø 2 WBT	NOT USED	Ø 4 SBL SBT	OLC FYA	Ø 6 EBT	NOT USED	Ø 8 NBL NBT	Ø 2 PED Ø 1 EBL	NOT USED	Ø 6 PED Ø 5 WBL	Ø 8 PED

* PEDESTRIAN PHASES SHOULD BE WIRED TO THEIR RESPECTIVE EXIST. FYA LOAD SWITCHES.

SL DISTRICT TRAFFIC SIGNAL DETECTION SYSTEM (3)
TOTAL = 1 EACH

CCTV CAMERA ASSEMBLY
TOTAL = 1 EACH

INSTALL CCTV CAMERA ASSEMBLY
TOTAL = 1 EACH

CCTV EXTENSION POLE, 20' METALLIC FINISH
TOTAL = 1 EACH

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ROUTE 100 MANCHESTER ROAD/BRAESHIRE DRIVE

INTERSECTION

STATE OF MISSOURI
CASSANDRA MCKEE LEE
NUMBER PE-2023025373
PROFESSIONAL ENGINEER
03/27/2025
Cassandra McKee Lee - Civil
MO PE-2023025373

DATE PREPARED: 3/27/2025

US ROUTE	STATE
100	MO
DISTRICT	SHEET NO.
SL	195

COUNTY: ST. LOUIS
JOB NO.: J6P3274
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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SHEET 29 OF 61

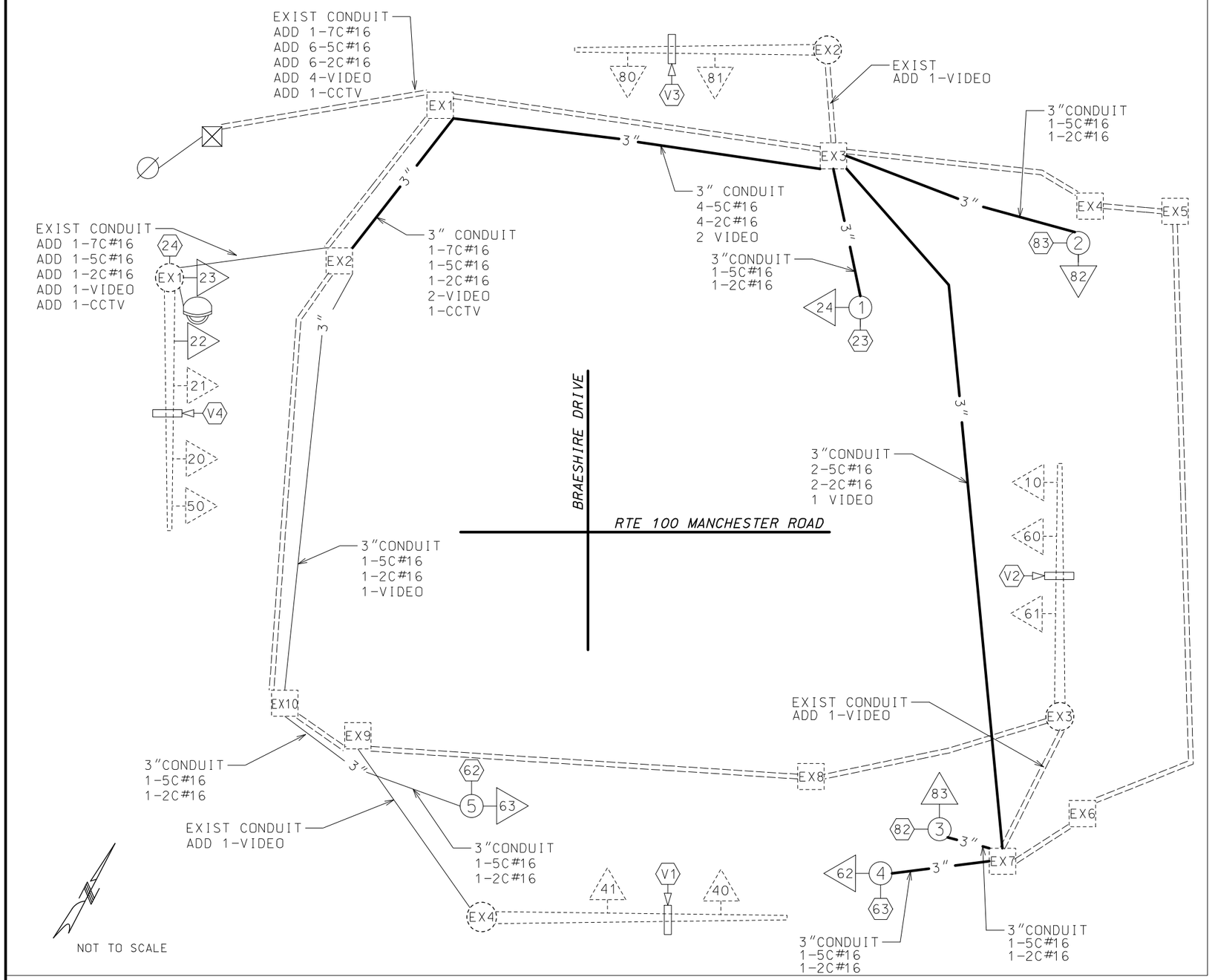
SIGNAL SHEET

ROUTE 100
MANCHESTER ROAD/
BRAESHIRE DRIVE

D37-C

WIRING DIAGRAM

EFFECTIVE: 12-01-17



LEGEND

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

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03/27/2025
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DATE PREPARED
3/27/2025

US ROUTE	STATE
100	MO
DISTRICT	SHEET NO.
SL	196

COUNTY
ST. LOUIS

JOB NO.
J6P3274

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DESCRIPTION	DATE

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SHEET 30 OF 61

SIGNAL SHEET

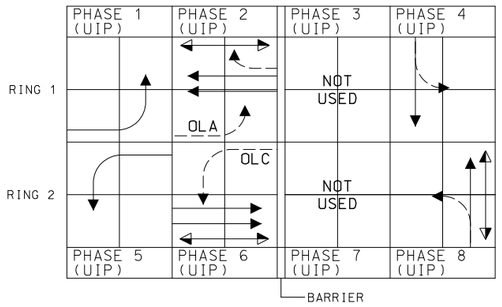
ROUTE 100
MANCHESTER ROAD/
BRAESHIRE DRIVE

D37-D

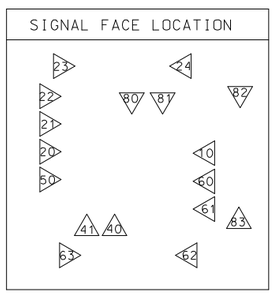
EFFECTIVE: 12-01-17

TRAFFIC PHASING AND COLOR SEQUENCE - ACTUATED CONTROLLERS

		PHASE 1	PHASE 2	NOT USED	PHASE 4	PHASE 5	PHASE 6	NOT USED	PHASE 8	OLA	NOT USED	OLC	NOT USED	PED Φ 2	NOT USED	PED Φ 6	PED Φ 8	
										OVERLAP A	OVERLAP B	OVERLAP C	OVERLAP D					
FACE NUMBERS		10	20 22		40	50	60		80	10		50		23		62	82	FACE NUMBERS
			21		41		61		81					24		63	83	
SIGNAL INDICATIONS	R		R R		R		R		R	RL		RL		DW		DW	DW R	SIGNAL INDICATIONS
	Y		Y Y		Y		Y		Y	YL		YL					Y	
	FYA									FYL		FYL					FYA	
	G L		G G		G	L	G		G					W		W	W G	
DETECTOR ASSIGNMENTS		10	20 22 21		40 41		60 61		80 81									DETECTOR ASSIGNMENTS
DETECTOR ASSIGNMENTS (PEDS. ONLY)														23 24		62 63	82 83	
OVERLAP PARENT PHASES										2		6						



RING STRUCTURE



IF CALLED, ALL NON-CONFLICTING PHASES SHALL COMBINE AND TIME CONCURRENTLY. TIME TO BE DETERMINED BY THE ENGINEER AT SIGNAL TURN ON AND SET IN THE CONTROLLER BY THE CONTRACTOR.

LEGEND

- ——▶ — ACTUATED VEHICULAR MOVEMENT
- ——▶ — PARTIALLY RESTRICTED ACTUATED VEHICULAR MOVEMENT
- ——▷ — NON-ACTUATED VEHICULAR MOVEMENT
- ——▷ — PARTIALLY RESTRICTED NON-ACTUATED VEHICULAR MOVEMENT
- ——▶ — ACTUATED PEDESTRIAN MOVEMENT
- ——▷ — NON-ACTUATED PEDESTRIAN MOVEMENT
- —⊣— VEHICLE STOPPED
- FDW — FLASHING DON'T WALK
- W — WALK
- DW — DON'T WALK
- R/W — RIGHT OF WAY INTERVAL
- YR† — YELLOW RIGHT ARROW
- RT. — GREEN RIGHT ARROW
- LY —YL — YELLOW LEFT ARROW
- L — GREEN LEFT ARROW
- S — GREEN STRAIGHT AHEAD ARROW
- G — CIRCULAR GREEN
- Y — CIRCULAR YELLOW
- R — CIRCULAR RED
- RL — RED LEFT ARROW
- Ø — TRAFFIC PHASE
- AO — ALL OTHERS
- FR — FLASHING RED
- FY — FLASHING CIRCULAR YELLOW
- FYL — FLASHING YELLOW LEFT ARROW

FLASHING OPERATION	
ALL	FR (UIP)
CONTROLLER TYPE	NEMA 8Φ (UIP)

TRAFFIC SIGNAL CONTROL OPERATION
INTERSECTION OF ROUTE 100 MANCHESTER ROAD
WITH BRAESHIRE DRIVE

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CASSANDRA MCKEE LEE
NUMBER PE-2023025373
PROFESSIONAL ENGINEER
03/27/2025
Cassandra McKee Lee - Civil
MO PE-2023025373

DATE PREPARED 3/27/2025
US ROUTE 100 | STATE MO
DISTRICT SL | SHEET NO. 197
COUNTY ST. LOUIS
JOB NO. J6P3274
CONTRACT ID.
PROJECT NO.
BRIDGE NO.

DESCRIPTION | DATE

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SHEET 31 OF 61
SIGNAL SHEET
ROUTE 100 MANCHESTER ROAD/ BRAESHIRE DRIVE
D38-A

SCALE
0 10 20 30

℄ KNOLLHAVEN RD

COMMERCIAL

T.C.E.

4' POST

EXIST. SIGNAL CONTROLLER (UIP)

EXIST. POWER SUPPLY (UIP)

EXIST. R/W

16' LANE

NEXT SIGNAL N/A
8.12%
SPEED LIMIT = N/A

8' POST

RELOCATED PB EX2

(RELOC. & ATG)

12' LANE

12' LANE

12' LANE

13' LANE

NEXT SIGNAL 680'
ENCHANTED PARKWAY
0.68%
SPEED LIMIT = 45 MPH

STA. 1563+18.05 (ROUTE 100) =
STA. 5+00.00 (KNOLLHAVEN)

14.5' LANE

11' LANE

12' LANE

CONST. ℄ ROUTE 100.

NEXT SIGNAL 1020'
BRAESHIRE DRIVE
0.52%
SPEED LIMIT = 45 MPH

4' POST

8' POST

(ATG)

(UIP)

EXIST. R/W

RESIDENTIAL

15' LANE

NEXT SIGNAL N/A
3.45%
SPEED LIMIT = N/A

℄ KNOLLHAVEN LN

START CROSSING Watch For Vehicles
DON'T START Ample Crossing If Started
TIME REMAINING To Finish Crossing
DON'T CROSS
PUSH BUTTON TO CROSS

OR

63

22 23 82 83

62

SIGN R10-3EL INSTALLED ABOVE PUSH BUTTONS

SIGN R10-3ER

Ø1 + Ø5 Ø2 + Ø6 Ø4 + Ø8

NOTES:
1. REMOVE EXISTING VIDEO DETECTION SYSTEM EQUIPMENT AND INSTALL NEW OPTIONAL TYPE SIGNAL DETECTION.
2. NEW PEDESTRIAN PUSHBUTTON POSTS (1, 3) SHALL BE BREAKAWAY BASES WITH 4' POSTS & APS BUTTONS.
3. NEW PEDESTRIAN SIGNAL POSTS (2, 4) SHALL BE TYPE C BASE WITH 8' POST, COUNTDOWN PED HEAD & APS PUSHHBUTTON.

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NUMBER PE-2023025373
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03/27/2025
Cassandra McKee Lee - Civil
MO PE-2023025373

DATE PREPARED
3/27/2025

US ROUTE	STATE
100	MO
DISTRICT	SHEET NO.
SL	198

COUNTY
ST. LOUIS

JOB NO.
J6P3274

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

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REV.

SHEET 32 OF 60

SIGNAL SHEET

ROUTE 100
MANCHESTER ROAD/
KNOLLHAVEN LANE

EFFECTIVE: 07-01-2018

POST NUMBER	PULL BOX NUMBER	LOCATION: APPROACH	LOCATION: STATION	LOCATION: OFFSET	BASE: A 9	A 9.5	A 10	A 10.5	A 11	A 12	BASE: F 9	F 9.5	F 10	F 10.5	F 11	F 12	BASE: C	CONCRETE** (CU. YARDS)	PULL BOX: PREFORMED CLASS 1	CLASS 2	CLASS 3	CLASS 5	CONCRETE: STANDARD	DOUBLE, TYPE A	DOUBLE, TYPE B	ADJUST TO GRADE	DRAIN TYPE* I	II A	II B	II C	4' PED POST	TOP MOUNT POST 8 FT.	15 FT.
		CONTROLLER (AS REQ'D)																															
1		RTE 100	1563+38.78	61.3' RT														(1)													1			
2		RTE 100	1562+73.19	48.9' RT													1	0.44														1		
3		RTE 100	1562+85.47	39.9' LT														(1)													1			
4		RTE 100	1562+95.34	44.1' LT													1	0.44														1		
	EX1	RTE 100	1563+43.47	52.14' RT																						1								
	EX2	RTE 100	1562+71.00	44.94' RT																						1								
	EX4	RTE 100	1562+77.12	45.93' LT																						1								
	EX5	RTE 100	1563+46.35	46.23' LT																						1								
EX1		RTE 100																															
				SUBTOTAL														0.88								4					2	2		
				TOTAL														0.9								4					2	2		

POST NUMBER	TYPE C & CL: ARM LENGTH A	A	A	SIGNAL SPACING B	C	D	D'	SIGN SPACING B	C	D	D'	TYPE B & BL: ARM LENGTH E	K	E	K	E	K	LEFT ARM E: SIGNAL SPACING F	G	H	H'	SIGN SPACING F	G	H	H'	RIGHT ARM K: SIGNAL SPACING L	M	N	N'	SIGN SPACING L	M	N	N'	INCLUDED ANGLE	LUMINAIRE BRACKET ARM** 4 FT.	6 FT.	8 FT.	10 FT.	12 FT.	15 FT.
1																																							
2																																							
3																																							
4																																							
	EX1																																						
	EX2																																						
	EX4																																						
	EX5																																						
EX1					12'																																		

NOTE:
SIGNAL & SIGN SPACING SHOWN IS APPROXIMATE. CONTRACTOR SHALL ADJUST AS NECESSARY

(1) NO DIRECT PAY FOR REQUIRED BASE MATERIAL ASSOCIATED WITH 4' PEDESTRIAN PUSH BUTTON STANCHION. SEE JSP FOR DETAILS.

SIGNAL HEADS

| SPAN NUMBER | POST NUMBER | FACE NUMBER | LUMINAIRE LED A | INDICATIONS* 12" LENS CONVENTIONAL R | Y | YL | Yr† | FYL | FYR | G | S | L | R† | 12" LENS OPTICAL LIMITING R | Y | YL | Yr† | FYL | FYR | G | S | L | R† | VISORS* 12" LENS | PED | LOUVERS* A | B | C | D | E | F | BACKPLATE* LENSES 1 | 2 | 3 | 4 | 5 | RETROREFLECTIVE BACKPLATE* LENSES 1 | 2 | 3 | 4 | 5 | BRACKET* TYPE I | II | III | ONE FACE SECTION 1- T | S | C | B | 2- T | S | C | B | 3- T | S | C | B | 4- T | S | C | B | TWO FACE SECTIONS 11- T | S | B | 33- T | S | C | B | 34- S | B | 44- S | B | 45- S | B |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---

EFFECTIVE: 10-01-2015

CONDUIT (WITH #14 TRACER WIRE)

FROM	TO	CENTER TO CENTER DISTANCE	LOOP DET.	TRENCH				PUSHED			MEDIAN			ON STRUCTURE			REMARKS
			1"	2"	3"	4"	2" RIGID STEEL *	2"	3"	4"	2"	3"	4"	2"	3"		
EX1	1	10'			16'												PUSH BUTTON 24
EX1	EX2	73'							71'								PEDESTRIAN HEAD 23
EX2	2	7'			8'												VIDEO V-4
EX2	EX3	77'							75'								SIGNAL HEAD 22
EX3	3	17'			18'												PEDESTRIAN HEAD 24
EX3	4	27'			28'												PUSH BUTTON 23
EX3	EX5	74'							72'								VIDEO V-3
SUBTOTALS					70'				218'								
TOTALS					70'				218'								

CABLE

FROM	TO	CENTER TO CENTER DISTANCE	POWER		CONTROL				CLOSED LOOP INTERCONNECT	LUMINAIRE		DETECTOR			FIBER		REMARKS
			1c #8	1c #2 *	2c #16	5c #16	7c #16	3c #16	3 PAIR #16	CONTROL 2c #12	POLE & BRACKET 1c #10	1c #14 IN DUCT	2c #14 LEAD-IN CABLE	VIDEO CABLE*	SINGLE MODE	MULTI-MODE	
	1	19'			42'												PUSH BUTTON 24
	EX1	22'				46'											PEDESTRIAN HEAD 23
	EX1	22'												(91')			VIDEO V-4
	EX1	22'					71'										SIGNAL HEAD 22
	EX2	60'				78'											PEDESTRIAN HEAD 24
	EX2	60'			77'												PUSH BUTTON 23
	EX2	60'												(123')			VIDEO V-3
	2	90'				120'											PEDESTRIAN HEAD 82
	2	90'			119'												PUSH BUTTON 83
	EX3	166'				202'											PEDESTRIAN HEAD 83
	EX3	166'												(247')			VIDEO V-2
	3	177'			212'												PUSH BUTTON 82
	4	188'				224'											PEDESTRIAN HEAD 62
	4	188'			223'												PUSH BUTTON 63
	EX4	227'				263'											PEDESTRIAN HEAD 63
	EX4	227'			262'												PUSH BUTTON 62
	EX4	227'												(308')			VIDEO V-1
SUBTOTALS					935'	933'	71'							(769')			
5% FOR SNAKING					982'	980'	75'							(807')			
TOTALS					990'	980'	80'							(810')			

*QUANTITY SHOWN FOR INFORMATION PURPOSES. NO DIRECT PAY.

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ROUTE 100 MANCHESTER ROAD/KNOLLHAVEN LANE

INTERSECTION

STATE OF MISSOURI
CASSANDRA MCKEE LEE
NUMBER PE-2023025373
PROFESSIONAL ENGINEER

03/27/2025
Cassandra McKee Lee - Civil
MO PE-2023025373

DATE PREPARED
3/27/2025

US ROUTE	STATE
100	MO
DISTRICT	SHEET NO.
SL	200

COUNTY
ST. LOUIS

JOB NO.
J6P3274

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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ST. LOUIS, MO 63102 (314) 436-5500
ENGINEERING CORPORATION - 000631

SHEET 34 OF 61

SIGNAL SHEET

ROUTE 100
MANCHESTER ROAD/
KNOLLHAVEN LANE

D37-B

EFFECTIVE: 04-01-2018

POWER SUPPLY

LOCATION			POWER SUPPLY ASSEMBLY		CIRCUIT BREAKER TRIP RATING*				LIGHTING CONTROL * (ON POWER SUPPLY)		SERVICE POLE	
					CONTROLLER		POWER SUPPLY DISCONNECT					
APPROACH	STATION	OFFSET	DRAWING 902.15	SPECIAL DRAWING (4)	AUXILIARY BREAKER	CONT & SIGNAL LAMPS	MAIN BREAKER		120 VOLT CONTROL CABINET	MAIN BREAKER	CONTRACT FURNISH	UTILITY COMPANY
							SIGNALS	LIGHTING				
RTE 100	1563+51.73	61.96'	(USE EXISTING)		15 Amps	- Amps	100 Amps	- Amps		- Amps	Ci. Ft.	AMEREN
			Type		Amps	Amps	Amps	Amps		Amps	Ci. Ft.	

CONTROLLER ASSEMBLY AND AUXILIARY EQUIPMENT

LOCATION			SYSTEM MASTER (CLOSED LOOP)		ACTUATED		ON-OFF* SWITCH		COORDINATION INTERFACE *						TIME * CLOCK	NEMA CABINET TYPE *			170 CABINET TYPE *		170 SOFTWARE *	
							TYPE		12C/7C HARDWIRE (1)		TIME BASE	CLOSED LOOP										
APPROACH	STATION	OFFSET	NEMA	170	NEMA	170	I	II	MASTER	LOCAL		NEMA	170	FIBER		E	EV	DOUBLE	332	336S	BITRAN	WAPITI
RTE 100	1563+44.52	60.01'	-	(USE EXIST EQUIPMENT)			-	-	-	(USE EXIST EQUIPMENT)				-	-	(USE EXIST EQUIPMENT)			-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

NEMA DETECTOR ASSIGNMENT

CHANNEL	CARD POSITION 1	2	3	4	5	6	7	8
1			SL DISTRICT TRAFFIC SIGNAL DETECTION SYSTEM (3)					
2								

DETECTOR SCHEDULE

DETECTOR NUMBER	APPROACH	TYPE				
		AUDIBLE PUSH BUTTON	INDUCTION LOOP (2)			VIDEO
			STANDARD	DELAY/ EXTEND *	CALL UNIT *	
23	WB RTE 100	1				
24	EB RTE 100	1				
82	NB KNOLLHAVEN	1				
83	SB KNOLLHAVEN	1				
62	EB RTE 100	1				
63	WB RTE 100	1				
40	SB KNOLLHAVEN					V1
10	EBL RTE 100					V2
60	EB RTE 100					V2
61	EB RTE 100					V2
80	NB KNOLLHAVEN					V3
50	WBL RTE 100					V4
20	WB RTE 100					V4
21	WB RTE 100					V4
22	WB RTE 100					V4
TOTAL		6				

* ITEMS FOR WHICH SEPARATE PAYMENT WILL NOT BE MADE.

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

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

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

(3) SEE SL DISTRICT TRAFFIC SIGNAL DETECTION JSP FOR ADDITIONAL DETAILS. SIGNAL DETECTION SHALL BE PAID AS 1 PER INTERSECTION. THE CONTRACTOR SHALL PROVIDE AND INSTALL A VEHICLE DETECTION SYSTEM FULLY COVERING DETECTION ZONES AS SHOWN ON THE PLANS. THE METHOD CHOSEN SHALL COMPLY WITH MODOT'S STANDARDS AND SPECIFICATIONS. ALL EQUIPMENT USED IN THE SYSTEM SHALL BE IN ACCORDANCE WITH MODOT'S APPROVED PRODUCT LIST AND RECEIVE COMPLETE UNIT WITH ALL COSTS INCLUDED.

SIGNAL SIGNS

QUANTITY	MUTCD SIGN NUMBER	SIZE	AREA	SIGN TOTAL AREA	SIGNAL SIGN MOUNTING HARDWARE
				ITEM NO. 90208.33	ITEM NO. 90208.34
		INCHES	SQ.FT.	SQ.FT.	EA.
	R10-10L	24 X 30	5.0		
	R10-10R	24 X 30	5.0		
	R3-5L	30 X 36	7.5		
	R3-5R	30 X 36	7.5		
	R3-5A	30 X 36	7.5		
	R3-6L	30 X 36	7.5		
	R3-6R	30 X 36	7.5		
	R3-2	24 X 24	4.0		
	R3-1	24 X 24	4.0		
	R3-3	24 X 24	4.0		
	D3-1 ***	VAR. X 18			
	D3-1B ***	VAR. X 18			
1	R10-3EL	9 X 15	0.9	0.9*	1*
5	R10-3ER	9 X 15	0.9	4.5*	5*
	R10-11A	24 X 30	5.0		
	R10-13	36 X 24	6.0		
	R10-27A	30 X 36	7.5		
			SUBTOTAL		
			TOTAL		

NOTE: PAYMENT FOR PUSH BUTTON SIGNS (R10-3E) & MOUNTING HARDWARE ARE TO BE INCIDENTAL TO THE COST OF THE PUSH BUTTON

SL DISTRICT TRAFFIC SIGNAL DETECTION SYSTEM (3)
TOTAL = 1 EACH

NEMA LOAD SWITCH ASSIGNMENTS

1 (UIP)	2 (UIP)	3	4 (UIP)	5 (UIP)	6 (UIP)	7	8 (UIP)	9*	10	11*	12
OLA FYA	Ø 2 WBT	NOT USED	Ø 4 SBL SBT	OLC FYA	Ø 6 EBT	NOT USED	Ø 8 NBL NBT	Ø 2 PED Ø 1 EBL	NOT USED	Ø 6 PED Ø 5 WBL	Ø 8 PED

* PEDESTRIAN PHASES SHOULD BE WIRED TO THEIR RESPECTIVE EXIST. FYA LOAD SWITCHES.

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ROUTE 100 MANCHESTER ROAD/KNOLLHAVEN LANE

INTERSECTION

STATE OF MISSOURI
CASSANDRA MCKEE LEE
NUMBER PE-2023025373
PROFESSIONAL ENGINEER
03/27/2025
Cassandra McKee Lee - Civil
MO PE-2023025373

DATE PREPARED 3/27/2025

US ROUTE 100 | STATE MO

DISTRICT SL | SHEET NO. 201

COUNTY ST. LOUIS

JOB NO. J6P3274

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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SHEET 35 OF 61

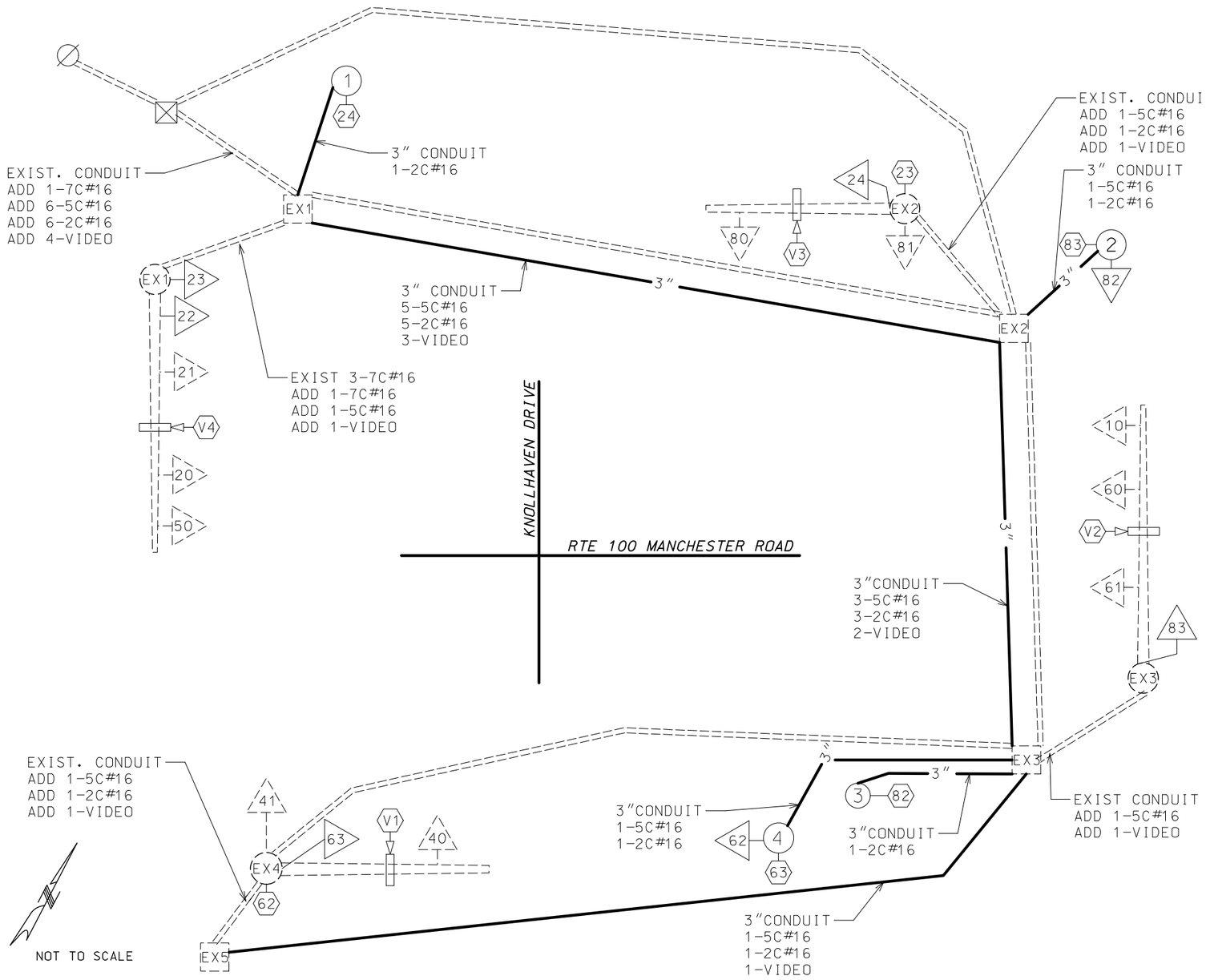
SIGNAL SHEET

ROUTE 100 MANCHESTER ROAD/ KNOLLHAVEN LANE

D37-C

WIRING DIAGRAM

EFFECTIVE: 12-01-17



LEGEND

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

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ROUTE 100 MANCHESTER ROAD/KNOLLHAVEN LANE

INTERSECTION

STATE OF MISSOURI
CASSANDRA MCKEE LEE
NUMBER PE-2023025373
PROFESSIONAL ENGINEER
03/27/2025
Cassandra McKee Lee - Civil
MO PE-2023025373

DATE PREPARED 3/27/2025

US ROUTE	STATE
100	MO
DISTRICT	SHEET NO.
SL	202

COUNTY: ST. LOUIS
JOB NO.: J6P3274
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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SHEET 36 OF 61

SIGNAL SHEET

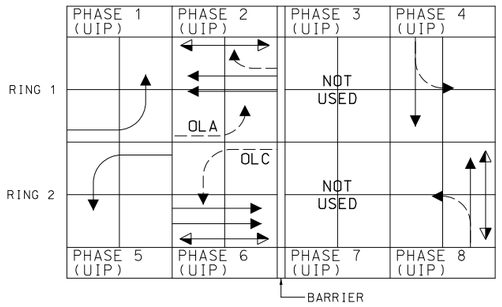
ROUTE 100
MANCHESTER ROAD/
KNOLLHAVEN LANE

D37-D

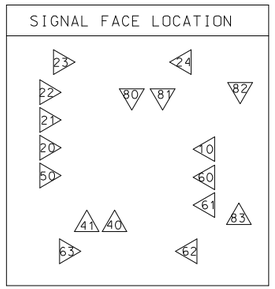
EFFECTIVE: 12-01-17

TRAFFIC PHASING AND COLOR SEQUENCE - ACTUATED CONTROLLERS

	PHASE 1	PHASE 2	PHASE 3	PHASE 4	PHASE 5	PHASE 6	PHASE 7	PHASE 8	OVERLAP A	OVERLAP B	OVERLAP C	OVERLAP D	PED Φ 2	PED Φ 4	PED Φ 6	PED Φ 8	
		NOT USED	NOT USED	NOT USED		NOT USED		OLA	NOT USED		OLC NOT USED	NOT USED	NOT USED				
FACE NUMBERS	10	20 22		40	50	60		80	10		50		23		62	82	FACE NUMBERS
		21		41		61		81					24		63	83	
SIGNAL INDICATIONS R		R R		R		R		R	RL		RL		DW		DW	DW	R
SIGNAL INDICATIONS Y		Y Y		Y		Y		Y	YL		YL						Y
SIGNAL INDICATIONS FYA									FYL		FYL						FYA
SIGNAL INDICATIONS G L		G G		G	L	G		G					W		W	W	G
DETECTOR ASSIGNMENTS	10	20 22		40	50	60		80									DETECTOR ASSIGNMENTS
		21				61											
DETECTOR ASSIGNMENTS (PEDS. ONLY)													23		62	82	
													24		63	83	
OVERLAP PARENT PHASES									2		6						



RING STRUCTURE



IF CALLED, ALL NON-CONFLICTING PHASES SHALL COMBINE AND TIME CONCURRENTLY. TIME TO BE DETERMINED BY THE ENGINEER AT SIGNAL TURN ON AND SET IN THE CONTROLLER BY THE CONTRACTOR.

LEGEND

- → — ACTUATED VEHICULAR MOVEMENT
- → — PARTIALLY RESTRICTED ACTUATED VEHICULAR MOVEMENT
- ▷ — NON-ACTUATED VEHICULAR MOVEMENT
- ▷ — PARTIALLY RESTRICTED NON-ACTUATED VEHICULAR MOVEMENT
- → — ACTUATED PEDESTRIAN MOVEMENT
- ▷ — NON-ACTUATED PEDESTRIAN MOVEMENT
- ⊣ — VEHICLE STOPPED
- FDW — FLASHING DON'T WALK
- W — WALK
- DW — DON'T WALK
- R/W — RIGHT OF WAY INTERVAL
- YR† — YELLOW RIGHT ARROW
- RT. — GREEN RIGHT ARROW
- LY –YL — YELLOW LEFT ARROW
- L — GREEN LEFT ARROW
- S — GREEN STRAIGHT AHEAD ARROW
- G — CIRCULAR GREEN
- Y — CIRCULAR YELLOW
- R — CIRCULAR RED
- RL — RED LEFT ARROW
- Ø — TRAFFIC PHASE
- AO — ALL OTHERS
- FR — FLASHING RED
- FY — FLASHING CIRCULAR YELLOW
- FYL — FLASHING YELLOW LEFT ARROW

FLASHING OPERATION	
ALL	FR (UIP)
CONTROLLER TYPE	NEMA 8Φ (UIP)

TRAFFIC SIGNAL CONTROL OPERATION
INTERSECTION OF ROUTE 100 MANCHESTER ROAD
WITH KNOLLHAVEN LANE

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ROUTE 100 MANCHESTER ROAD/KNOLLHAVEN LANE

INTERSECTION

STATE OF MISSOURI
CASSANDRA MCKEE LEE
NUMBER PE-2023025373
PROFESSIONAL ENGINEER
03/27/2025
Cassandra McKee Lee - Civil
MO PE-2023025373

DATE PREPARED: 3/27/2025
US ROUTE: 100 | STATE: MO
DISTRICT: SL | SHEET NO.: 203
COUNTY: ST. LOUIS
JOB NO.: J6P3274
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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SHEET 37 OF 61

SIGNAL SHEET

ROUTE 100
MANCHESTER ROAD/
KNOLLHAVEN LANE

D38-A

NOTES:
1. REMOVE EXISTING LOOP DETECTION SYSTEM EQUIPMENT AND INSTALL NEW OPTIONAL TYPE SIGNAL DETECTION.
2. REMOVE EXIST. MAST ARMS AND SIGNAL HEADS.
3. NEW PEDESTRIAN PUSHBUTTON POSTS (1, 4) SHALL BE BREAKAWAY BASES WITH 4' POSTS & APS BUTTONS.
4. NEW PEDESTRIAN SIGNAL POSTS (6, 7) SHALL BE TYPE C BASE WITH 8' POST, COUNTDOWN PED HEAD & APS PUSHBUTTON.

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STATE OF MISSOURI
CASSANDRA MCKEE LEE
NUMBER PE-2023025373
PROFESSIONAL ENGINEER
03/27/2025
Cassandra McKee Lee - Civil
MO PE-2023025373

DATE PREPARED: 3/27/2025
US ROUTE: 100 | STATE: MO
DISTRICT: SL | SHEET NO.: 204
COUNTY: ST. LOUIS
JOB NO.: J6P3274
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
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SHEET 38 OF 61
SIGNAL SHEET
ROUTE 100
MANCHESTER ROAD/
ENCHANTED PARKWAY

REV.

SCALE 0 10 20 30

INDUSTRIAL
COMMERCIAL
℄ ENCHANTED PARKWAY
CONST. ℄ ROUTE 100.
STA. 1569+99.03 (ROUTE 100) = STA. 5+00.00 (ENCHANTED)
EXIST. R/W
EXIST. POWER SOURCE (UIP)
PROP. SIGNAL CONTROLLER
PAD MOUNTED 120V/240V SIGNAL POWER SUPPLY AND LIGHTING CONTROLLER WITH UPS
EXIST. ITS PB (ATG)
NEXT SIGNAL N/A
2.81%
SPEED LIMIT = N/A
LED-A LUMINAIRE ON 10' BRACKET
20' MAST ARM
EXIST RAISED 6" ISLAND (UIP)
EXIST. LPR (R&R BO)
EXIST RAISED 6" CONC. MEDIAN (UIP)
NEXT SIGNAL 925' HIGHLANDS BOULEVARD DRIVE
2.54%
SPEED LIMIT = 45 MPH
D3-1 STREET SIGN
ENCHANTED PKWY
MANCHESTER RD
40' MAST ARM
LED-A LUMINAIRE ON 15' BRACKET
PROP. CCTV CAMERA
4' POST
LEFT TURN YIELD ON FLASHING ARROW R10-27A
45' MAST ARM
NEXT SIGNAL 680' KNOLLHAVEN LANE
1.36%
SPEED LIMIT = 45 MPH
8' POST
4' POST
40' MAST ARM
EXIST. MAST ARM (R)
LED-A LUMINAIRE IB 15' BRACKET
NEXT SIGNAL N/A
2.73%
SPEED LIMIT = 20 MPH
11' LANE
12' LANE
13' LANE
13.5' LANE
11.5' LANE
Ø1 + Ø5
Ø2 + Ø6
Ø4 + Ø8
SIGN R10-3EL INSTALLED ABOVE PUSH BUTTONS
SIGN R10-3ER INSTALLED ABOVE PUSH BUTTONS

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

EFFECTIVE: 10-01-2015

CONDUIT (WITH #14 TRACER WIRE)

FROM	TO	CENTER TO CENTER DISTANCE	LOOP DET.	TRENCH				PUSHED			MEDIAN			ON STRUCTURE			REMARKS
			1"	2"	3"	4"	2" RIGID STEEL *	2"	3"	4"	2"	3"	4"	2"	3"		
∅	☒	13′			21′												
∅	1	15′			18′												FOR LIGHTING
☒	1	7′			20′												2-3" CONDUITS
1	2	33′							62′								2-3" CONDUITS
2	1	11′			12′												
2	2	10′			11′												
2	3	68′							66′								
3	3	7′							8′								
2	6	83′							81′								
6	7	9′			10′												
6	8	9′			10′												
6	6	24′			25′												
6	5	32′			30′												
5	4	67′							65′								
4	4	17′			18′												
4	5	4′			5′												
☒	1A	20′			22												FOR ITS
SUBTOTALS					202′				282′								
TOTALS					202′				282′								

CABLE

FROM	TO	CENTER TO CENTER DISTANCE	POWER		CONTROL				LUMINAIRE		DETECTOR			CCTV CAMERA CABLE	SIGN CABLE*	REMARKS
			1c #8	1c #2 *	2c #16	5c #16	7c #16	3c #16	CONTROL 2c #12	POLE & BRACKET 1c #10	1c #14 IN DUCT	2c #14 LEAD-IN CABLE	VIDEO CABLE*			
∅	☒	13′	87′													POWER
☒	1	52′			81′											PUSH BUTTON 83
☒	2	51′				81′										PEDESTRIAN HEAD 82
☒	2	51′					100′									SIGNAL HEAD 81
☒	2	51′					110′									SIGNAL HEAD 80
☒	2	51′											(116′)			VIDEO V-3
☒	2	51′												106′		CCTV
☒	3	116′					201′									SIGNAL HEAD 50
☒	3	116′					190′									SIGNAL HEAD 20
☒	3	116′					179′									SIGNAL HEAD 21
☒	3	116′											(192′)			VIDEO V-4
☒	4	240′			287′											PUSH BUTTON 63
☒	5	227′				275′										PEDESTRIAN HEAD 64
☒	5	227′					278′									SIGNAL HEAD 42
☒	5	227′					312′									SIGNAL HEAD 41
☒	5	227′					319′									SIGNAL HEAD 40
☒	5	227′											(294′)			VIDEO V-1
☒	6	149′				185′										PEDESTRIAN HEAD 63
☒	6	149′			184′											PUSH BUTTON 64
☒	7	134′				170′										PEDESTRIAN HEAD 83
☒	7	134′			169′											PUSH BUTTON 82
☒	8	133′					172′									SIGNAL HEAD 62
☒	8	133′					191′									SIGNAL HEAD 61
☒	8	133′					203′									SIGNAL HEAD 60
☒	8	133′					217′									SIGNAL HEAD 10
☒	8	133′											(208′)			VIDEO V-2
∅	2	58′							65′	126′						LUMINAIRE
∅	3	122′							138′	120′						LUMINAIRE
∅	5	230′							260′	116′						LUMINAIRE
∅	8	140′							154′	124′						LUMINAIRE
SUBTOTALS			87′		721′	711′	2472′		617′	486′			(810′)	106′		
5% FOR SNAKING			91′		757′	747′	2596′		648′	510′			(851′)	111′		
TOTALS			100′		760′	750′	2600′		650′	520′			(860′)	120′		

*QUANTITY SHOWN FOR INFORMATION PURPOSES. NO DIRECT PAY.

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ROUTE 100 MANCHESTER ROAD/ENCHANTED PARKWAY

INTERSECTION

STATE OF MISSOURI
CASSANDRA MCKEE LEE
NUMBER PE-2023025373
PROFESSIONAL ENGINEER

03/27/2025
Cassandra McKee Lee - Civil
MO PE-2023025373

DATE PREPARED
3/27/2025

US ROUTE	STATE
100	MO
DISTRICT	SHEET NO.
SL	206

COUNTY
ST. LOUIS

JOB NO.
J6P3274

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)

CMT
CRAWFORD, MURPHY & TILLY, INC.
ONE MEMORIAL DRIVE, SUITE 500
ST. LOUIS, MO 63102 (314) 436-5500
ENGINEERING CORPORATION - 000631

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SHEET 40 OF 61

SIGNAL SHEET

ROUTE 100
MANCHESTER ROAD/
ENCHANTED PARKWAY

D37-B

EFFECTIVE: 04-01-2018

POWER SUPPLY

LOCATION			POWER SUPPLY ASSEMBLY		CIRCUIT BREAKER TRIP RATING✳				LIGHTING CONTROL ✳ (ON POWER SUPPLY)		SERVICE POLE	
					CONTROLLER		POWER SUPPLY DISCONNECT					
							MAIN BREAKER					
APPROACH	STATION	OFFSET	DRAWING 902.15	SPECIAL DRAWING (4)	AUXILIARY BREAKER	CONT & SIGNAL LAMPS	SIGNALS	LIGHTING	120 VOLT CONTROL CABINET	MAIN BREAKER	CONTRACT FURNISH	UTILITY COMPANY
RTE 100	1569+37.79	76.83'LT	Type	1	15 Amps	30 Amps	100 Amps	100 Amps	1	15 Amps	Ci. Ft.	
			Type		Amps	Amps	Amps	Amps		Amps	Ci. Ft.	

CONTROLLER ASSEMBLY AND AUXILIARY EQUIPMENT

LOCATION			SYSTEM MASTER (CLOSED LOOP)		ACTUATED		ON-OFF✳ SWITCH		COORDINATION INTERFACE ✳						TIME ✳ CLOCK	NEMA CABINET TYPE ✳			170 CABINET TYPE ✳		170 SOFTWARE ✳	
							TYPE		12C/7C HARDWIRE (1)		TIME BASE	CLOSED LOOP		FIBER								
APPROACH	STATION	OFFSET	NEMA	170	NEMA	170	I	II	MASTER	LOCAL		NEMA	170			E	EV	DOUBLE	332	336S	BITRAN	WAPITI
RTE 100	1569+45.54	76.98'RT	-	-	1	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

NEMA DETECTOR ASSIGNMENT

		CARD POSITION							
		1	2	3	4	5	6	7	8
CHANNEL	1		SL DISTRICT TRAFFIC SIGNAL DETECTION SYSTEM (3)						
	2								

DETECTOR SCHEDULE

DETECTOR NUMBER	APPROACH	TYPE				
		AUDIBLE PUSH BUTTON	INDUCTION LOOP (2)			VIDEO
			STANDARD	DELAY/ EXTEND ✳	CALL UNIT ✳	
43	EB RTE 100	1				
42	WB RTE 100	1				
63	SB ENCHANTED PKWY	1				
64	NB ENCHANTED PKWY	1				
81	SB ENCHANTED					V1
80	SB ENCHANTED					V1
30	SBL ENCHANTED					V1
10	EBL RTE 100					V2
60	EB RTE 100					V2
61	EB RTE 100					V2
62	EB RTE 100					V2
40	NB ENCHANTED					V3
41	NB ENCHANTED					V3
50	WBL RTE 100					V4
20	WB RTE 100					V4
21	WB RTE 100					V4
TOTAL		4				

✳ ITEMS FOR WHICH SEPARATE PAYMENT WILL NOT BE MADE.

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

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

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

(3) SEE SL DISTRICT TRAFFIC SIGNAL DETECTION JSP FOR ADDITIONAL DETAILS. SIGNAL DETECTION SHALL BE PAID AS 1 PER INTERSECTION. THE CONTRACTOR SHALL PROVIDE AND INSTALL A VEHICLE DETECTION SYSTEM FULLY COVERING DETECTION ZONES AS SHOWN ON THE PLANS. THE METHOD CHOSEN SHALL COMPLY WITH MODOT'S STANDARDS AND SPECIFICATIONS.ALL EQUIPMENT USED IN THE SYSTEM SHALL BE IN ACCORDANCE WITH MODOT'S APPROVED PRODUCT LIST AND RECEIVE COMPLETE UNIT WITH ALL COSTS INCLUDED.

(4) POWER SUPPLY SHALL BE PAD MOUNTED 120V/240V POWER SUPPLY & LIGHTING CONTROLLER WITH UNINTERRUPTIBLE POWER SUPPLY. SEE DETAILS.

SIGNAL SIGNS

QUANTITY	MUTCD SIGN NUMBER	SIZE	AREA	SIGN TOTAL AREA	SIGNAL SIGN MOUNTING HARDWARE
				ITEM NO. 90208.33	ITEM NO. 90208.34
		INCHES	SQ.FT.	SQ.FT.	EA.
	R10-10L	24 X 30	5.0		
	R10-10R	24 X 30	5.0		
2	R3-5L	30 X 36	7.5	15.0	2
	R3-5R	30 X 36	7.5		
	R3-5A	30 X 36	7.5		
	R3-6L	30 X 36	7.5		
	R3-6R	30 X 36	7.5		
	R3-2	24 X 24	4.0		
	R3-1	24 X 24	4.0		
	R3-3	24 X 24	4.0		
2	D3-1 ✳✳✳	96. X 18	12.0	24.0	2
2	D3-1B ✳✳✳	96 X 18	12.0	24.0	2
3	R10-3EL	9 X 15	0.9	2.7✳	3
1	R10-3ER	9 X 15	0.9	0.9✳	1
	R10-11A	24 X 30	5.0		
	R10-13	36 X 24	6.0		
3	R10-27A	30 X 36	7.5	22.5	3
			SUBTOTAL	85.5	9
			TOTAL	86	9

NOTE: PAYMENT FOR PUSH BUTTON SIGNS (R10-3E) & MOUNTING HARDWARE ARE TO BE INCIDENTAL TO THE COST OF THE PUSH BUTTON

SL DISTRICT TRAFFIC SIGNAL DETECTION SYSTEM (3)
TOTAL = 1 EACH

REMOVE AND RELOCATE EXISTING CCTV CAMERA
TOTAL = 1 EACH

MODOT FURNISHED TRAFFIC SIGNAL CONTROLLER
TOTAL = 1 EACH

NETWORK CONNECTED SIGNAL MONITOR
TOTAL = 1 EACH

CCTV EXTENSION POLE, 20 FT. METALLIC FINISH
TOTAL = 1 EACH

PAD MOUNTED 120V/240V SIGNAL POWER SUPPLY AND LIGHTING CONTROLLER WITH UNINTERRUPTIBLE POWER SUPPLY
TOTAL = 1 EACH

NOTE: BID PRICE FOR PAD MOUNTED POWER SUPPLY/CONTROLLER SHALL INCLUDE CABLE (#2 AWG.), RIGID STEEL CONDUIT, AND TRENCHING BETWEEN ASSEMBLY AND UTILITY COMPANY FACILITIES

NEMA LOAD SWITCH ASSIGNMENTS

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
Ø 1 EBL	Ø 2 WBT	NOT USED	Ø 4 SBT	Ø 5 WBL	Ø 6 EBT	NOT USED	Ø 8 NBL NBT	OLA EBL FYA	OLB NBR†	OLC WBL FYA	OLD SBL FYA	NOT USED	NOT USED	Ø 6 PED	Ø 8 PED

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ROUTE 100 MANCHESTER ROAD/ENCHANTED PARKWAY

INTERSECTION

STATE OF MISSOURI
CASSANDRA MCKEE LEE
NUMBER PE-2023025373
PROFESSIONAL ENGINEER
03/27/2025
Cassandra McKee Lee - Civil
MO PE-2023025373

DATE PREPARED
3/27/2025

US ROUTE	STATE
100	MO
DISTRICT	SHEET NO.
SL	207

COUNTY
ST. LOUIS

JOB NO.
J6P3274

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)

CMT
CRAWFORD, MURPHY & TILLY, INC.
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ST. LOUIS, MO 63102 (314) 436-5500
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SHEET 41 OF 61

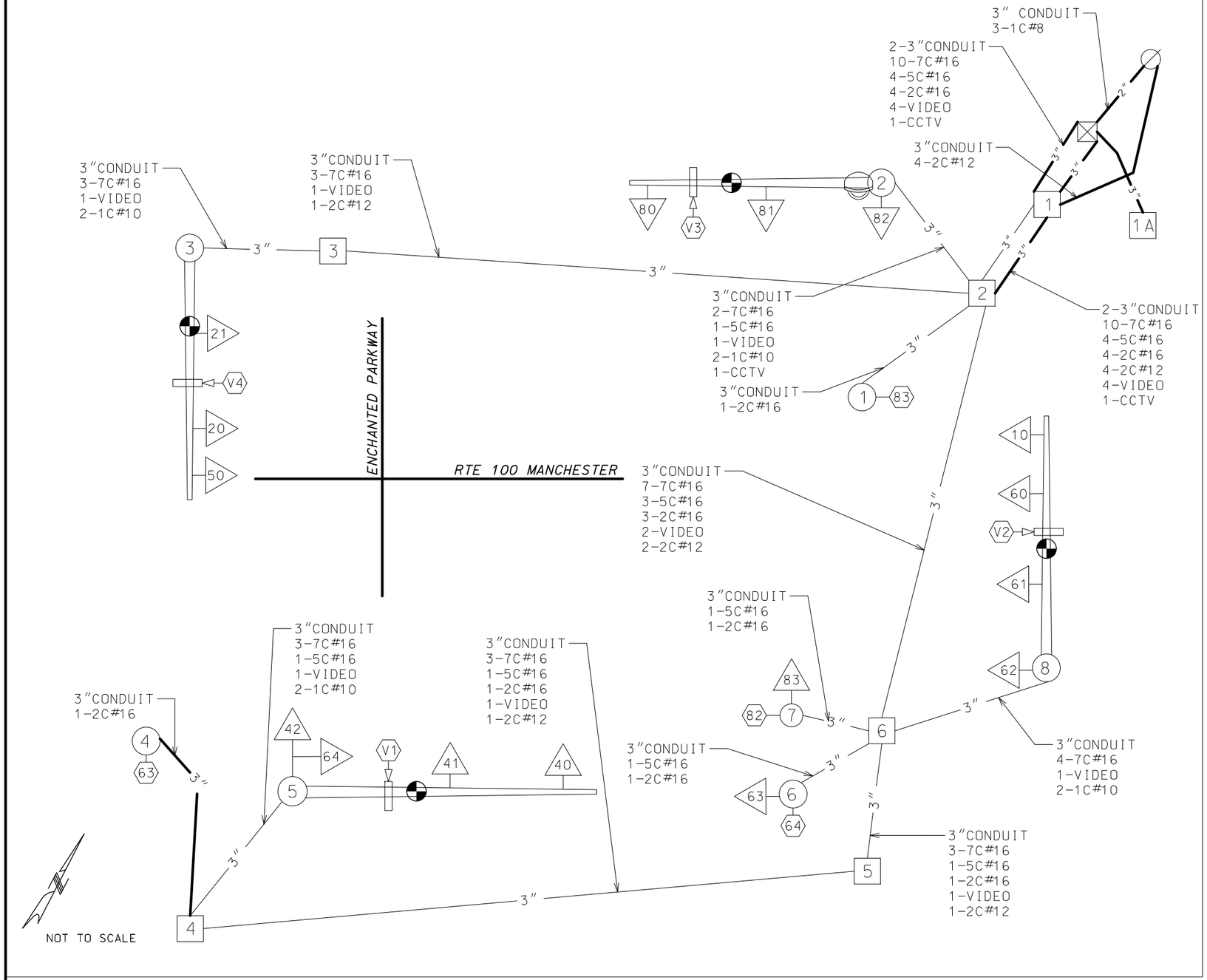
SIGNAL SHEET

ROUTE 100
MANCHESTER ROAD/
ENCHANTED PARKWAY

D37-C

WIRING DIAGRAM

EFFECTIVE: 12-01-17



LEGEND

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

STATE OF MISSOURI
CASSANDRA MCKEE LEE
NUMBER PE-2023025373
PROFESSIONAL ENGINEER
03/27/2025
Cassandra McKee Lee - Civil
MO PE-2023025373

DATE PREPARED: 3/27/2025

US ROUTE	STATE
100	MO
DISTRICT	SHEET NO.
SL	208

COUNTY: ST. LOUIS
JOB NO.: J6P3274
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)

CMT
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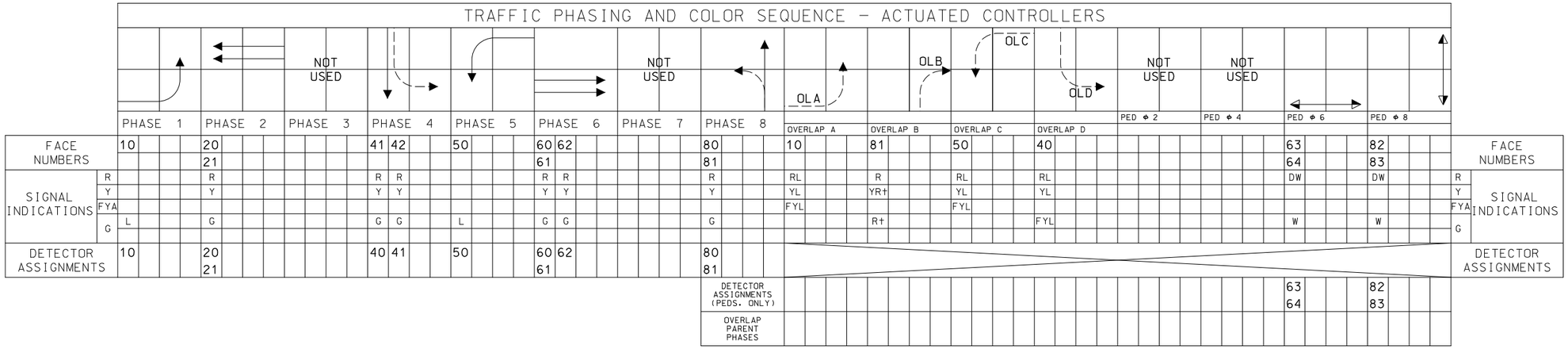
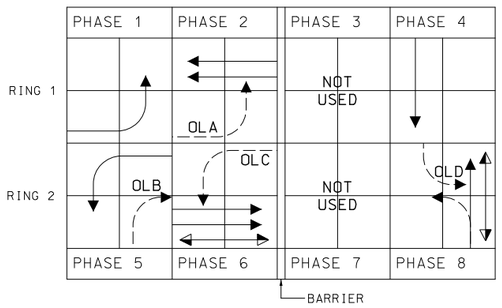
ROUTE 100 MANCHESTER ROAD/ENCHANTED PARKWAY
INTERSECTION

SHEET 42 OF 61
SIGNAL SHEET
ROUTE 100
MANCHESTER ROAD/
ENCHANTED PARKWAY
D37-D

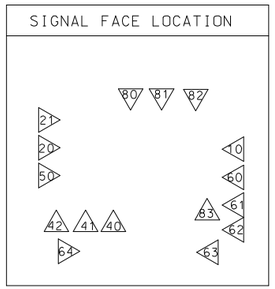
EFFECTIVE: 12-01-17

TRAFFIC PHASING AND COLOR SEQUENCE - ACTUATED CONTROLLERS





RING STRUCTURE



IF CALLED, ALL NON-CONFLICTING PHASES SHALL COMBINE AND TIME CONCURRENTLY. TIME TO BE DETERMINED BY THE ENGINEER AT SIGNAL TURN ON AND SET IN THE CONTROLLER BY THE CONTRACTOR.

LEGEND

- ACTUATED VEHICULAR MOVEMENT
- PARTIALLY RESTRICTED ACTUATED VEHICULAR MOVEMENT
- NON-ACTUATED VEHICULAR MOVEMENT
- PARTIALLY RESTRICTED NON-ACTUATED VEHICULAR MOVEMENT
- ACTUATED PEDESTRIAN MOVEMENT
- NON-ACTUATED PEDESTRIAN MOVEMENT
- VEHICLE STOPPED

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

FLASHING OPERATION	
ALL	FR
CONTROLLER TYPE	NEMA 8Φ

TRAFFIC SIGNAL CONTROL OPERATION
INTERSECTION OF ROUTE 100 MANCHESTER ROAD
WITH ENCHANTED PARKWAY

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ROUTE 100 MANCHESTER ROAD/ENCHANTED PARKWAY

INTERSECTION

SHEET 43 OF 61

SIGNAL SHEET

ROUTE 100
MANCHESTER ROAD/
ENCHANTED PARKWAY

D38-A

STATE OF MISSOURI
CASSANDRA MCKEE LEE
NUMBER PE-2023025373
PROFESSIONAL ENGINEER
03/27/2025
Cassandra McKee Lee - Civil
MO PE-2023025373

DATE PREPARED
3/27/2025

US ROUTE	STATE
100	MO
DISTRICT	SHEET NO.
SL	209

COUNTY
ST. LOUIS

JOB NO.
J6P3274

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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SCALE
0 10 20 30

℄ HIGHLANDS BLVD DR

COMMERCIAL

EXIST. R/W

20' LANE

12' LANE

12' LANE

11' LANE

R 126'

R 155'

NEXT SIGNAL ROUTE 141
4.37%
SPEED LIMIT = 25 MPH

EXIST RAISED 6" CONC. MEDIAN (UIP)

EXIST RAISED 6" CONC. ISLAND (UIP))

NEXT SIGNAL 1005' ROUTE 141
0.66%
SPEED LIMIT = 40 MPH

R 112'

R 96'

EXIST RAISED 6" CONC. MEDIAN (MODIFY)

11' LANE

12' LANE

12' LANE

11' LANE

12' LANE

11' LANE

EXIST RAISED 6" CONC. MEDIAN (UIP)

STA. 1579+32.90 (ROUTE 100) =
STA. 5+00.00 (HIGHLANDS)

R 69'

CONST. ℄ ROUTE 100.

EXIST RAISED 6" CONC. MEDIAN (MODIFY)

NEXT SIGNAL 925' ENCHANTED PARKWAY
1.50%
SPEED LIMIT = 40 MPH

R 78'

R 47'

EXIST. CCTV CAMERA (R)

EXIST. MAST ARM (UIP)

℄ HIGHLANDS BLVD DR

EXIST RAISED 6" CONC. MEDIAN (UIP)

NEXT SIGNAL N/A
4.81%
SPEED LIMIT = N/A

P.H.E.

T.C.E.

COMMERCIAL

11' LANE

11' LANE

Ø1 + Ø5 Ø2 + Ø6 Ø3 Ø4

SHEET 44 OF 61

SIGNAL SHEET

ROUTE 100
MANCHESTER ROAD/
HIGHLANDS BOULEVARD DRIVE

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STATE OF MISSOURI
CASSANDRA MCKEE LEE
NUMBER PE-2023025373
PROFESSIONAL ENGINEER

03/27/2025
Cassandra McKee Lee - Civil
MO PE-2023025373

DATE PREPARED
3/27/2025

US ROUTE	STATE
100	MO
DISTRICT	SHEET NO.
SL	210

COUNTY
ST. LOUIS

JOB NO.
J6P3274

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DESCRIPTION

DATE

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ST. LOUIS, MO 63102 (314) 436-5500
ENGINEERING CORPORATION - 000631

REV.

POST NUMBER	PULL BOX NUMBER	LOCATION APPROACH	LOCATION STATION	LOCATION OFFSET	BASE A 9	BASE A 9.5	BASE A 10	BASE A 10.5	BASE A 11	BASE A 12	BASE F 9	BASE F 9.5	BASE F 10	BASE F 10.5	BASE F 11	BASE F 12	BASE C	CONCRETE** (CU. YARDS)	PULL BOX PREFORMED CLASS 1	PREFORMED CLASS 2	PREFORMED CLASS 3	PREFORMED CLASS 5	PULL BOX CONCRETE STANDARD	CONCRETE DOUBLE, TYPE A	CONCRETE DOUBLE, TYPE B	ADJUST TO GRADE	DRAIN TYPE* I	DRAIN TYPE* II A	DRAIN TYPE* II B	DRAIN TYPE* II C	4' PED POST
		CONTROLLER (AS REQ'D)																													
EX4																															
	EX6	ROUTE 100	1578+52.43	60.61' LT																						1					
EX1		ROUTE 100																													
SUBTOTAL																										1					
TOTAL																										1					

POST NUMBER	TOP MOUNT POST 8 FT.	TOP MOUNT POST 15 FT.	TYPE C & CL ARM LENGTH A	A	A	A	SIGNAL SPACING B	C	D	D'	SIGN SPACING B	C	D	D'	TYPE B & BL ARM LENGTH E	K	E	K	E	K	LEFT ARM E SIGNAL SPACING F	G	H	H'	LEFT ARM E SIGN SPACING F	G	H	H'	RIGHT ARM K SIGNAL SPACING L	M	N	N'	RIGHT ARM K SIGN SPACING L	M	N	N'	INCLUDED ANGLE	LUMINAIRE BRACKET ARM** 4 FT.	6 FT.	8 FT.	10 FT.	12 FT.	15 FT.
EX4							15'																																		
EX6																																									
EX1							27'																																		

NOTE:
SIGNAL & SIGN SPACING SHOWN IS APPROXIMATE. CONTRACTOR SHALL ADJUST AS NECESSARY

EFFECTIVE: 07-01-2018

SIGNAL HEADS

| SPAN NUMBER | POST NUMBER | FACE NUMBER | LUMINAIRE LED A | INDICATIONS* 12" LENS CONVENTIONAL R | Y | YL | Yr† | FYL | FYR | G | S | L | R† | 🚶 | 12" LENS OPTICAL LIMITING R | Y | YL | Yr† | FYL | FYR | G | S | L | R† | VISORS* 12" LENS | PED | LOUVERS* A | B | C | D | E | F | BACKPLATE* LENSES 1 | 2 | 3 | 4 | 5 | RETROREFLECTIVE BACKPLATE* LENSES 1 | 2 | 3 | 4 | 5 | BRACKET* TYPE I | II | III | ONE FACE SECTION 1- T | S | C | B | 2- T | S | C | B | 3- T | S | C | B | 4- T | S | C | B | TWO FACE SECTIONS 11- T | S | B | 33- T | S | C | B | 34- T | S | B | 44- T | S | B | 45- T | S | B |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---

EFFECTIVE: 10-01-2015

CONDUIT (WITH #14 TRACER WIRE)

FROM	TO	CENTER TO CENTER DISTANCE	LOOP DET.	TRENCH				PUSHED			MEDIAN			ON STRUCTURE			REMARKS
			1"	2"	3"	4"	2" RIGID STEEL *	2"	3"	4"	2"	3"	4"	2"	3"		
EX1	EX2	61'							59'								
EX2	EX3	61'							59'								
EX3	EX4	131'							129'								
EX2	EX7	70'							68'								
SUBTOTALS									315'								
TOTALS									315'								

CABLE

FROM	TO	CENTER TO CENTER DISTANCE	POWER		CONTROL					CLOSED LOOP INTERCONNECT	LUMINAIRE		DETECTOR			FIBER		REMARKS
			1c #8	1c #2 *	2c #16	5c #16	7c #16	3c #16	3 PAIR #16		CONTROL 2c #12	POLE & BRACKET 1c #10	1c #14 IN DUCT	2c #14 LEAD-IN CABLE	VIDEO CABLE*	SINGLE MODE	MULTI-MODE	
☒	EX1	78'													(153')			VIDEO V-3
☒	EX1	151'					222'											SIGNAL HEAD 41
☒	EX2	151'													(232')			VIDEO V-2
☒	EX4	318'													(405')			VIDEO V-1
☒	EX4	318'					375'											SIGNAL HEAD 33
☒	EX5	183'													(264')			VIDEO V-4
SUBTOTALS		597'													(1054')			
5% FOR SNAKING		627'													(1107')			
TOTALS		630'													(1110')			

*QUANTITY SHOWN FOR INFORMATION PURPOSES. NO DIRECT PAY.

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ROUTE 100 MANCHESTER ROAD/HIGHLANDS BOULEVARD DRIVE

INTERSECTION

STATE OF MISSOURI
CASSANDRA MCKEE LEE
NUMBER PE-2023025373
PROFESSIONAL ENGINEER

03/27/2025
Cassandra McKee Lee - Civil
MO PE-2023025373

DATE PREPARED
3/27/2025

US ROUTE 100 | STATE MO
DISTRICT SL | SHEET NO. 212
COUNTY ST. LOUIS
JOB NO. J6P3274
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)

CMT
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ST. LOUIS, MO 63102 (314) 436-5500
ENGINEERING CORPORATION - 000631

SHEET 46 OF 61

SIGNAL SHEET

ROUTE 100
MANCHESTER ROAD/
HIGHLANDS BOULEVARD DRIVE

D37-B

EFFECTIVE: 04-01-2018

POWER SUPPLY

LOCATION			POWER SUPPLY ASSEMBLY		CIRCUIT BREAKER TRIP RATING*				LIGHTING CONTROL * (ON POWER SUPPLY)		SERVICE POLE	
					CONTROLLER		POWER SUPPLY DISCONNECT					
							MAIN BREAKER					
APPROACH	STATION	OFFSET	DRAWING 902.15	SPECIAL DRAWING (4)	AUXILIARY BREAKER	CONT & SIGNAL LAMPS	SIGNALS	LIGHTING	120 VOLT CONTROL CABINET	MAIN BREAKER	CONTRACT FURNISH	UTILITY COMPANY
(USE EXIST EQUIPMENT)			Type		15 Amps	- Amps	100 Amps	- Amps		- Amps	Ci. Ft.	AMEREN
			Type		Amps	Amps	Amps	Amps		Amps	Ci. Ft.	

CONTROLLER ASSEMBLY AND AUXILIARY EQUIPMENT

LOCATION			SYSTEM MASTER (CLOSED LOOP)		ACTUATED		ON-OFF* SWITCH		COORDINATION INTERFACE *						TIME * CLOCK	NEMA CABINET TYPE *			170 CABINET TYPE *		170 SOFTWARE *	
							TYPE		12C/7C HARDWIRE (1)		TIME BASE	CLOSED LOOP		FIBER								
APPROACH	STATION	OFFSET	NEMA	170	NEMA	170	I	II	MASTER	LOCAL		NEMA	170			E	EV	DOUBLE	332	336S	BITRAN	WAPITI
(USD EXIST EQUIPMENT)				(USE EXIST EQUIPMENT)								(USE EXIST EQUIPMENT)				(USE EXIST CABINET)						

NEMA DETECTOR ASSIGNMENT

		CARD POSITION							
		1	2	3	4	5	6	7	8
CHANNEL	1			SL DISTRICT TRAFFIC SIGNAL DETECTION SYSTEM (3)					
	2								

SIGNAL SIGNS

QUANTITY	MUTCD SIGN NUMBER	SIZE	AREA	SIGN TOTAL AREA	SIGNAL SIGN MOUNTING HARDWARE
				ITEM NO. 90208.33	ITEM NO. 90208.34
		INCHES	SQ.FT.	SQ.FT.	EA.
	R10-10L	24 X 30	5.0		
	R10-10R	24 X 30	5.0		
	R3-5L	30 X 36	7.5		
	R3-5R	30 X 36	7.5		
	R3-5A	30 X 36	7.5		
	R3-6L	30 X 36	7.5		
	R3-6R	30 X 36	7.5		
	R3-2	24 X 24	4.0		
	R3-1	24 X 24	4.0		
	R3-3	24 X 24	4.0		
	D3-1 ***	VAR. X 18			
	D3-1B ***	VAR. X 18			
	R10-3EL	9 X 15	0.9		
	R10-3ER	9 X 15	0.9		
	R10-11A	24 X 30	5.0		
	R10-13	36 X 24	6.0		
	R10-27A	30 X 36	7.5		
			SUBTOTAL		
			TOTAL		

NOTE: PAYMENT FOR PUSH BUTTON SIGNS (R10-3E) & MOUNTING HARDWARE ARE TO BE INCIDENTAL TO THE COST OF THE PUSH BUTTON

DETECTOR SCHEDULE

DETECTOR NUMBER	APPROACH	TYPE				
		AUDIBLE PUSH BUTTON	INDUCTION LOOP (2)			VIDEO
			STANDARD	DELAY/ EXTEND *	CALL UNIT *	
10	EBL RTE 100					V2
11	EBL RTE 100					V2
60	EB RTE 100					V2
61	EB RTE 100					V2
62	EB RTE 100					V2
50	WB RTE 100					V4
20	WB RTE 100					V4
21	WB RTE 100					V4
22	WB RTE 100					V4
31	SBL HIGHLANDS					V1
30	SBL HIGHLANDS					V1
32	SB HIGHLANDS					V1
33	SB HIGHLANDS					V1
51	SB HIGHLANDS					V1
41	NB HIGHLANDS					V3
42	NBL HIGHLANDS					V3
40	NBL HIGHLANDS					V3
TOTAL						

* ITEMS FOR WHICH SEPARATE PAYMENT WILL NOT BE MADE.

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

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

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

(3) SEE SL DISTRICT TRAFFIC SIGNAL DETECTION JSP FOR ADDITIONAL DETAILS. SIGNAL DETECTION SHALL BE PAID AS 1 PER INTERSECTION. THE CONTRACTOR SHALL PROVIDE AND INSTALL A VEHICLE DETECTION SYSTEM FULLY COVERING DETECTION ZONES AS SHOWN ON THE PLANS. THE METHOD CHOSEN SHALL COMPLY WITH MODOT'S STANDARDS AND SPECIFICATIONS. ALL EQUIPMENT USED IN THE SYSTEM SHALL BE IN ACCORDANCE WITH MODOT'S APPROVED PRODUCT LIST AND RECEIVE COMPLETE UNIT WITH ALL COSTS INCLUDED.

SL DISTRICT TRAFFIC SIGNAL DETECTION SYSTEM (3)
TOTAL = 1 EACH

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ROUTE 100 MANCHESTER ROAD/HIGHLANDS BOULEVARD DRIVE

INTERSECTION

SHEET 47 OF 61

SIGNAL SHEET

ROUTE 100
MANCHESTER ROAD/
HIGHLANDS BOULEVARD DRIVE

D37-C

STATE OF MISSOURI
CASSANDRA MCKEE LEE
NUMBER PE-2023025373
PROFESSIONAL ENGINEER

03/27/2025
Cassandra McKee Lee - Civil
MO PE-2023025373

DATE PREPARED
3/27/2025

US ROUTE	STATE
100	MO
DISTRICT	SHEET NO.
SL	213

COUNTY
ST. LOUIS

JOB NO.
J6P3274

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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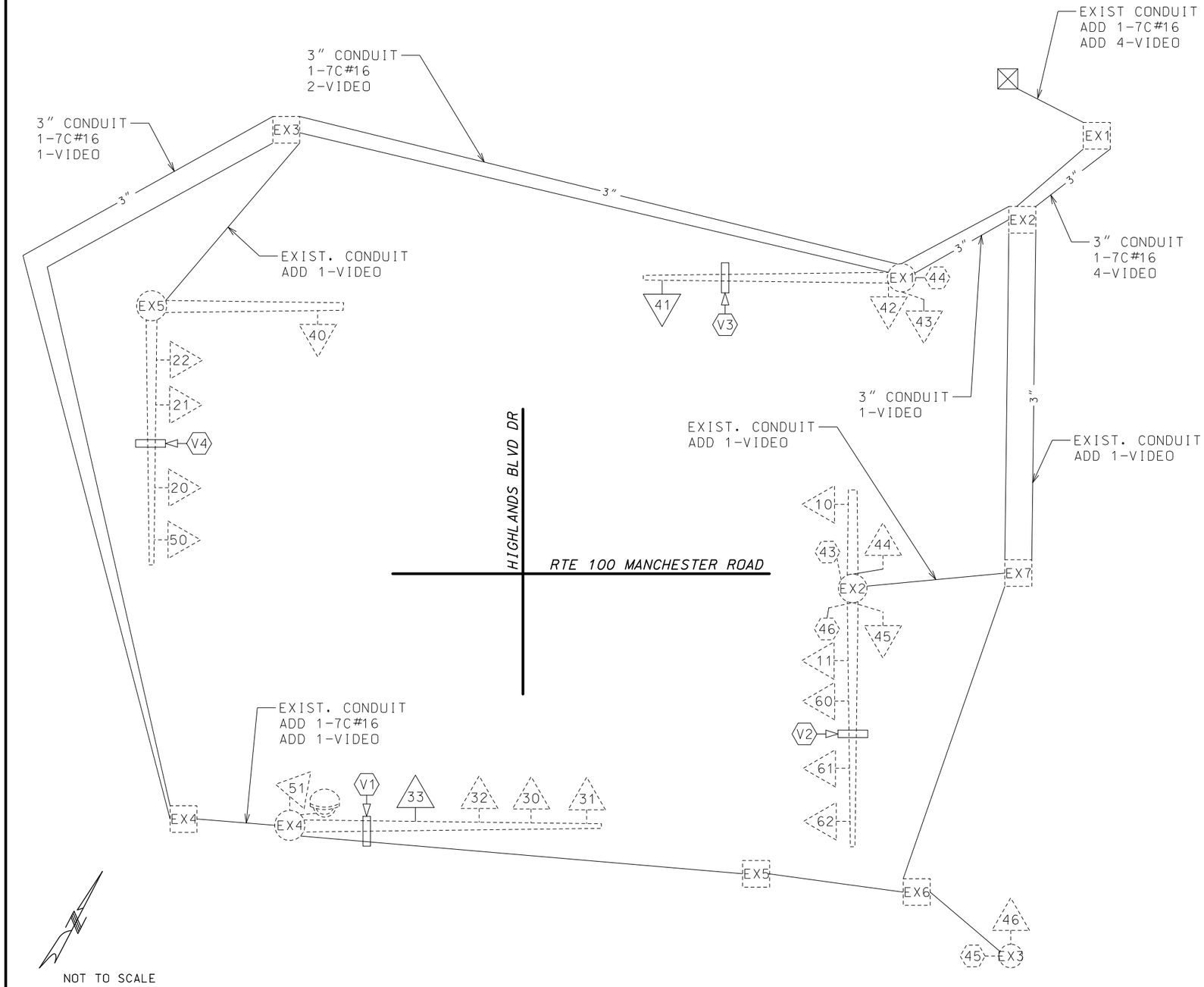
ONE MEMORIAL DRIVE, SUITE 500
ST. LOUIS, MO 63102 (314) 436-5500
ENGINEERING CORPORATION - 000631

WIRING DIAGRAM

EFFECTIVE: 12-01-17



LEGEND

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

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ROUTE 100 MANCHESTER ROAD/HIGHLANDS BOULEVARD DRIVE

INTERSECTION

STATE OF MISSOURI
CASSANDRA MCKEE LEE
NUMBER PE-2023025373
PROFESSIONAL ENGINEER

03/27/2025
Cassandra McKee Lee - Civil
MO PE-2023025373

DATE PREPARED
3/27/2025

US ROUTE	STATE
100	MO
DISTRICT	SHEET NO.
SL	214

COUNTY
ST. LOUIS

JOB NO.
J6P3274

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)

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SHEET 48 OF 61

SIGNAL SHEET

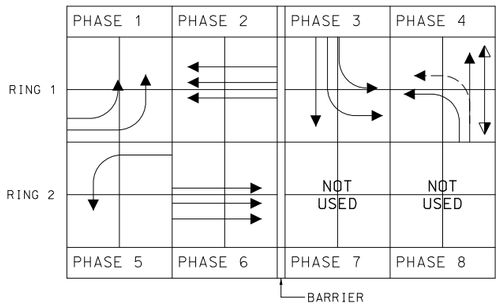
ROUTE 100
MANCHESTER ROAD/
HIGHLANDS BOULEVARD DRIVE

D37-D

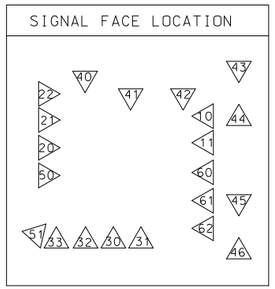
EFFECTIVE: 12-01-17

TRAFFIC PHASING AND COLOR SEQUENCE - ACTUATED CONTROLLERS

	PHASE 1	PHASE 2	PHASE 3	PHASE 4	PHASE 5	PHASE 6	PHASE 7	PHASE 8	OVERLAP A	OVERLAP B	OVERLAP C	OVERLAP D	PED Φ 2	PED Φ 4	PED Φ 6	PED Φ 8
							NOT USED	NOT USED	NOT USED	NOT USED	NOT USED	NOT USED	NOT USED		NOT USED	NOT USED
FACE NUMBERS	10 11	20 21 22	30 32 31 33	40 41 42	50 51	60 61 62								43 45 44 46		
SIGNAL INDICATIONS R	RL	R R	RL R	RL R R	RL R	R R								DW DW		
SIGNAL INDICATIONS Y	YL	Y Y	YL Y	YL Y Y	YL Y	Y Y										
SIGNAL INDICATIONS FYA				S												
SIGNAL INDICATIONS G	L	G S	L S	L L G	L L	S G								W W		
DETECTOR ASSIGNMENTS	10 11	20 21 22	30 32 31 33	40 41 42	50	60 61 62										
DETECTOR ASSIGNMENTS (PEDS. ONLY)														43 45 44 46		
OVERLAP PARENT PHASES																



RING STRUCTURE



IF CALLED, ALL NON-CONFLICTING PHASES SHALL COMBINE AND TIME CONCURRENTLY. TIME TO BE DETERMINED BY THE ENGINEER AT SIGNAL TURN ON AND SET IN THE CONTROLLER BY THE CONTRACTOR.

LEGEND

- → — ACTUATED VEHICULAR MOVEMENT
- ⇢ — PARTIALLY RESTRICTED ACTUATED VEHICULAR MOVEMENT
- ▷ — NON-ACTUATED VEHICULAR MOVEMENT
- ⇢ — PARTIALLY RESTRICTED NON-ACTUATED VEHICULAR MOVEMENT
- → — ACTUATED PEDESTRIAN MOVEMENT
- ▷ — NON-ACTUATED PEDESTRIAN MOVEMENT
- ⊣ — VEHICLE STOPPED
- FDW — FLASHING DON'T WALK
- W — WALK
- DW — DON'T WALK
- R/W — RIGHT OF WAY INTERVAL
- YR† — YELLOW RIGHT ARROW
- RT. — GREEN RIGHT ARROW
- LY —YL — YELLOW LEFT ARROW
- L — GREEN LEFT ARROW
- S — GREEN STRAIGHT AHEAD ARROW
- G — CIRCULAR GREEN
- Y — CIRCULAR YELLOW
- R — CIRCULAR RED
- RL — RED LEFT ARROW
- Ø — TRAFFIC PHASE
- AO — ALL OTHERS
- FR — FLASHING RED
- FY — FLASHING CIRCULAR YELLOW
- FYL — FLASHING YELLOW LEFT ARROW

FLASHING OPERATION	
ALL	FR
CONTROLLER TYPE	NEMA 8Φ

TRAFFIC SIGNAL CONTROL OPERATION
INTERSECTION OF ROUTE 100 MANCHESTER ROAD
WITH HIGHLANDS BOULEVARD DRIVE

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ROUTE 100 MANCHESTER ROAD/HIGHLANDS BOULEVARD DRIVE
INTERSECTION

STATE OF MISSOURI
CASSANDRA MCKEE LEE
NUMBER PE-2023025373
PROFESSIONAL ENGINEER
03/27/2025
Cassandra McKee Lee - Civil
MO PE-2023025373

DATE PREPARED: 3/27/2025
US ROUTE: 100
STATE: MO
DISTRICT: SL
SHEET NO.: 215
COUNTY: ST. LOUIS
JOB NO.: J6P3274
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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SHEET 49 OF 61
SIGNAL SHEET
ROUTE 100
MANCHESTER ROAD/
HIGHLANDS BOULEVARD DRIVE
D38-A

NOTES:
1. REMOVE EXISTING LOOP DETECTION SYSTEM EQUIPMENT AND INSTALL NEW OPTIONAL TYPE SIGNAL DETECTION.

2. NEW PEDESTRIAN SIGNAL POSTS (1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12) SHALL BE TYPE C BASES WITH 8' POSTS, COUNTDOWN PED HEADS & APS PUSHBUTTON.

SCALE
0 20 40 60

COMMERCIAL

EXIST. SIGNAL CONTROLLER (UIP)
EXIST. ITS CONTROLLER (UIP)
EXIST. PULL BOX (UIP)
EXIST. LIGHT CONTROLLER (UIP)

INSTALL PEDESTAL POLE #1
STA 15691+61.36, OFF 80.61' RT.

INSTALL SIGN B

INSTALL PEDESTAL POLE #2
STA 1591+29.92, OFF 62.94' RT.

INSTALL SIGN A

STA. 1590+67.33 (ROUTE 100) = STA. 100+00.00 (SB EXIT RAMP)

EXIST RAISED 6" MEDIAN (UIP)

12' LANE
11.5' LANE
14' LANE
15' LANE

NEXT SIGNAL 850' CREVE COUER AVENUE
1.21%
SPEED LIMIT = 45 MPH

EXIST RAISED 6" ISLAND (MODIFY)

NEXT SIGNAL N/A
5.62%
SPEED LIMIT = 35 MPH

℄ SB ROUTE 144 EXIT RAMP

11.5' LANE

INSTALL PEDESTAL POLE #3
STA 1590+12.19, OFF 90.93' RT.

EXIST RAISED 6" ISLAND (MODIFY)

STA. 1590+63.11 (ROUTE 100) = STA. 200+00.00 (SB ENTRANCE RAMP)

LEFT TURN SIGNAL RB-18 (R)

CONST. ℄ ROUTE 100.

INSTALL SIGN A

INSTALL PEDESTAL POLE #4
STA 1589+67.55, OFF 80.70' RT.

INSTALL PEDESTAL POLE #5
STA 1588+92.51, OFF 84.52' RT.

INSTALL SIGN B

INSTALL SIGN B

EXIST RAISED 6" ISLAND (MODIFY)

INSTALL PEDESTAL POLE #11
STA 1589+84.80, OFF 71.04' LT.

INSTALL SIGN B

INSTALL PEDESTAL POLE #12
STA 1590+19.24, OFF 42.82' LT.

EXIST. CCTV CAMERA (UIP)
EXIST. UTILITY POST (UIP)

INSTALL SIGN A

INSTALL PEDESTAL POLE #10
STA 1588+99.75, OFF 70.23' LT.

LEFT TURN SIGNAL RB-18 (R)

STA. 1588+06.13 (ROUTE 100) = STA. 400+00.00 (NB EXIT RAMP)

INSTALL SIGN B

INSTALL PEDESTAL POLE #9
STA 1588+67.11, OFF 45.19' LT.

℄ NB ROUTE 144 EXIT RAMP

NEXT SIGNAL N/A
7.76%
SPEED LIMIT = 35 MPH

11.5' LANE

NEXT SIGNAL N/A
6.34%
SPEED LIMIT = 50 MPH

℄ NB ROUTE 144 ENTRANCE RAMP

T.C.E.
P.H.E.

COMMERCIAL

INSTALL PEDESTAL POLE #6
STA 1588+51.54, OFF 63.87' RT.

INSTALL SIGN A

EXIST R/W

T.C.E.
P.H.E.

11.5' LANE

LEFT TURN SIGNAL RB-18 (R)

EXIST RAISED 6" ISLAND (MODIFY)

STA. 1588+14.18 (ROUTE 100) = STA. 300+00.00 (NB ENTRANCE RAMP)

12' LANE

NEXT SIGNAL 1005' HIGHLANDS BOULEVARD DRIVE
0.60%
SPEED LIMIT = 45 MPH

11.5' LANE

11' LANE

11' LANE

EXIST RAISED 6" MEDIAN (UIP)

EXIST RAISED 6" ISLAND (MODIFY)

INSTALL PEDESTAL POLE #8
STA 1587+17.66, OFF 48.59' LT.

INSTALL SIGN A

INSTALL SIGN B

INSTALL PEDESTAL POLE #7
STA 1586+96.60, OFF 75.17' LT.

EXIST. R/W

COMMERCIAL

℄ SB ROUTE 144 ENTRANCE RAMP

SPEED LIMIT = 50 MPH

NEXT SIGNAL N/A
4.69%

SIGN R10-3EL (A) OR SIGN R10-3ER (B)
INSTALLED ABOVE PUSH BUTTONS

Ø1 + Ø5 Ø2 + Ø6 Ø3 + Ø7

SHEET 50 OF 61

SIGNAL SHEET

ROUTE 100
MANCHESTER ROAD/
ROUTE 141

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STATE OF MISSOURI
CASSANDRA MCKEE LEE
NUMBER PE-2023025373
PROFESSIONAL ENGINEER
03/27/2025
Cassandra McKee Lee - Civil
MO PE-2023025373

DATE PREPARED	
3/27/2025	
US ROUTE	STATE
100	MO
DISTRICT	SHEET NO.
SL	216
COUNTY	
ST. LOUIS	
JOB NO.	
J6P3274	
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)

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ONE MEMORIAL DRIVE, SUITE 500
ST. LOUIS, MO 63102 (314) 436-5500
ENGINEERING CORPORATION - 000631

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

EFFECTIVE: 10-01-2015

CONDUIT (WITH #14 TRACER WIRE)

FROM	TO	CENTER TO CENTER DISTANCE	LOOP DET.	TRENCH				PUSHED			MEDIAN			ON STRUCTURE			REMARKS
			1"	2"	3"	4"	2" RIGID STEEL *	2"	3"	4"	2"	3"	4"	2"	3"		
EX1	1	8′			9′												
EX1	1	43′							41′								
EX1	EX8	66′							64′								
1	2	11′			12′												
1	EX2	103′							101′								
EX2	EX3	74′							72′								
EX2	3	13′			14′												
EX2	8	119′							117′								
EX3	4	25′							26′								
EX3	2	57′							55′								
2	5	7′							8′								
2	3	44′							42′								
3	6	4′							5′								
8	12	11′			12′												
8	7	47′							45′								
7	11	9′							10′								
7	6	86′							84′								
6	10	8′							9′								
6	5	54′							52′								
5	9	23′			24′												
5	EX4	93′							91′								
EX4	8	46′			47′												
EX4	4	67′							65′								
EX4	EX6	64′							62′								
4	7	7′			8′												
SUBTOTALS					126				949								
TOTALS					126				949								

CABLE

FROM	TO	CENTER TO CENTER DISTANCE	POWER		CONTROL				CLOSED LOOP INTERCONNECT	LUMINAIRE		DETECTOR			FIBER		REMARKS
			1c #8	1c #2 *	2c #16	5c #16	7c #16	3c #16	3 PAIR #16	CONTROL 2c #12	POLE & BRACKET 1c #10	1c #14 IN DUCT	2c #14 LEAD-IN CABLE	VIDEO CABLE*	SINGLE MODE	MULTI-MODE	
EX1	EX11	114′												(169′)			VIDEO V-5
1	1	26′				50′											PEDESTRIAN HEAD 22
1	1	26′			49′												PUSH BUTTON 23
2	2	72′				102′											PEDESTRIAN HEAD 23
2	2	72′			101′												PUSH BUTTON 22
3	3	177′				213′											PEDESTRIAN HEAD 24
3	3	177′			212′												PUSH BUTTON 25
4	4	272′				314′											PEDESTRIAN HEAD 25
4	4	272′			313′												PUSH BUTTON 24
5	5	302′				350′											PEDESTRIAN HEAD 26
5	5	302′			349′												PUSH BUTTON 27
6	6	342′				396′											PEDESTRIAN HEAD 27
6	6	342′			395′												PUSH BUTTON 26
EX3	EX3	274′												(411′)			VIDEO V-1
EX3	EX3	274′												(346′)			VIDEO V-2
EX4	EX4	274′												(351′)			VIDEO V-3
EX4	EX4	274′												(420′)			VIDEO V-4
12	12	294′				336′											PEDESTRIAN HEAD 63
12	12	294′			335′												PUSH BUTTON 62
11	11	338′				386′											PEDESTRIAN HEAD 62
11	11	338′			385′												PUSH BUTTON 63
10	10	423′				477′											PEDESTRIAN HEAD 64
10	10	423′			476′												PUSH BUTTON 65
9	9	491′				551′											PEDESTRIAN HEAD 65
9	9	491′			550′												PUSH BUTTON 64
8	8	611′				677′											PEDESTRIAN HEAD 66
8	8	611′			676′												PUSH BUTTON 67
7	7	635′				707′											PEDESTRIAN HEAD 67
7	7	635′			706′												PUSH BUTTON 66
EX5	EX5	735′												(832′)			VIDEO V-6
SUBTOTALS					4547′	4559′								(2529′)			
5% FOR SNAKING					4774′	4787′								(2655′)			
TOTALS					4780′	4790′								(2660′)			

*QUANTITY SHOWN FOR INFORMATION PURPOSES. NO DIRECT PAY.

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ROUTE 100 MANCHESTER ROAD/ROUTE 141

INTERSECTION

STATE OF MISSOURI
CASSANDRA MCKEE LEE
NUMBER PE-2023025373
PROFESSIONAL ENGINEER

03/27/2025
Cassandra McKee Lee - Civil
MO PE-2023025373

DATE PREPARED
3/27/2025

US ROUTE	STATE
100	MO
DISTRICT	SHEET NO.
SL	218

COUNTY
ST. LOUIS

JOB NO.
J6P3274

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)

CMT
CRAWFORD, MURPHY & TILLY, INC.
ONE MEMORIAL DRIVE, SUITE 500
ST. LOUIS, MO 63102 (314) 436-5500
ENGINEERING CORPORATION - 000631

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SHEET 52 OF 61

SIGNAL SHEET

ROUTE 100
MANCHESTER ROAD/
ROUTE 141

D37-B

EFFECTIVE: 04-01-2018

POWER SUPPLY

LOCATION			POWER SUPPLY ASSEMBLY		CIRCUIT BREAKER TRIP RATING*				LIGHTING CONTROL * (ON POWER SUPPLY)		SERVICE POLE	
					CONTROLLER		POWER SUPPLY DISCONNECT					
APPROACH	STATION	OFFSET	DRAWING 902.15	SPECIAL DRAWING (4)	AUXILIARY BREAKER	CONT & SIGNAL LAMPS	MAIN BREAKER		120 VOLT CONTROL CABINET	MAIN BREAKER	CONTRACT FURNISH	UTILITY COMPANY
							SIGNALS	LIGHTING				
(USE EXIST. EQUIPMENT)				-	- Amps	- Amps	- Amps	- Amps		- Amps	Ci. Ft.	
			Type		Amps	Amps	Amps	Amps		Amps	Ci. Ft.	

CONTROLLER ASSEMBLY AND AUXILIARY EQUIPMENT

LOCATION			SYSTEM MASTER (CLOSED LOOP)		ACTUATED		ON-OFF* SWITCH		COORDINATION INTERFACE *						TIME * CLOCK	NEMA CABINET TYPE *			170 CABINET TYPE *		170 SOFTWARE *	
							TYPE		12C/7C HARDWIRE (1)		TIME BASE	CLOSED LOOP										
APPROACH	STATION	OFFSET	NEMA	170	NEMA	170	I	II	MASTER	LOCAL		NEMA	170	FIBER		E	EV	DOUBLE	332	336S	BITRAN	WAPITI
(USE EXIST. EQUIPMENT)				(USE EXIST. EQUIPMENT)												(USE EXIST. EQUIPMENT)						

NEMA DETECTOR ASSIGNMENT

CHANNEL	CARD POSITION 1	2	3	4	5	6	7	8
1		SL DISTRICT TRAFFIC SIGNAL DETECTION SYSTEM (3)						
2								

SIGNAL SIGNS

QUANTITY	MUTCD SIGN NUMBER	SIZE	AREA	SIGN TOTAL AREA	SIGNAL SIGN MOUNTING HARDWARE
				ITEM NO. 90208.33	ITEM NO. 90208.34
		INCHES	SQ.FT.	SQ.FT.	EA.
	R10-10L	24 X 30	5.0		
	R10-10R	24 X 30	5.0		
	R3-5L	30 X 36	7.5		
	R3-5R	30 X 36	7.5		
	R3-5A	30 X 36	7.5		
	R3-6L	30 X 36	7.5		
	R3-6R	30 X 36	7.5		
	R3-2	24 X 24	4.0		
	R3-1	24 X 24	4.0		
	R3-3	24 X 24	4.0		
	D3-1 ***	VAR. X 18			
	D3-1B ***	VAR. X 18			
5	R10-3EL	9 X 15	0.9	4.5*	5*
7	R10-3ER	9 X 15	0.9	6.3*	7*
	R10-11A	24 X 30	5.0		
	R10-13	36 X 24	6.0		
	R10-27A	30 X 36	7.5		
			SUBTOTAL		
			TOTAL		

NOTE: PAYMENT FOR PUSH BUTTON SIGNS (R10-3E) & MOUNTING HARDWARE ARE TO BE INCIDENTAL TO THE COST OF THE PUSH BUTTON

DETECTOR SCHEDULE

DETECTOR NUMBER	APPROACH	TYPE: AUDIBLE PUSH BUTTON	INDUCTION LOOP (2): STANDARD	INDUCTION LOOP (2): DELAY/ EXTEND *	INDUCTION LOOP (2): CALL UNIT *	VIDEO
22		1				
23		1				
24		1				
25		1				
26		1				
27		1				
62		1				
63		1				
64		1				
65		1				
66		1				
67		1				
60.61.10.11	EB ROUTE 100					V1
70.71	SBL 141					V2
20.21.50.51	WB ROUTE 100					V3
30.31	NBL 141					V4
12.13	SBR 141					V5
52.53	NBR 141					V6
	TOTAL	12				

* ITEMS FOR WHICH SEPARATE PAYMENT WILL NOT BE MADE.

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

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

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

(3) SEE SL DISTRICT TRAFFIC SIGNAL DETECTION JSP FOR ADDITIONAL DETAILS. SIGNAL DETECTION SHALL BE PAID AS 1 PER INTERSECTION. THE CONTRACTOR SHALL PROVIDE AND INSTALL A VEHICLE DETECTION SYSTEM FULLY COVERING DETECTION ZONES AS SHOWN ON THE PLANS. THE METHOD CHOSEN SHALL COMPLY WITH MODOT'S STANDARDS AND SPECIFICATIONS. ALL EQUIPMENT USED IN THE SYSTEM SHALL BE IN ACCORDANCE WITH MODOT'S APPROVED PRODUCT LIST AND RECEIVE COMPLETE UNIT WITH ALL COSTS INCLUDED.

SL DISTRICT TRAFFIC SIGNAL DETECTION SYSTEM (3)
TOTAL = 1 EACH

NEMA LOAD SWITCH ASSIGNMENTS

1	2	3	4	5	6	7	8	9	10	11	12
Ø 1 EBL SBR	Ø 2 WB	Ø 3 NBL	PED OLA SBL	Ø 5 WBL NBR	Ø 6 EB	Ø 7 SBL	PED OLB/ OVER NBL	Ø 2 PED/ OVER EBL	PED OLC/ OVER SBR	Ø 6 PED/ OVER WBL	PED OLD/ OVER NBR

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ROUTE 100 MANCHESTER ROAD/ROUTE 141

INTERSECTION

STATE OF MISSOURI
CASSANDRA MCKEE LEE
NUMBER PE-2023025373
PROFESSIONAL ENGINEER

03/27/2025
Cassandra McKee Lee - Civil
MO PE-2023025373

DATE PREPARED
3/27/2025

US ROUTE	STATE
100	MO
DISTRICT	SHEET NO.
SL	219

COUNTY
ST. LOUIS

JOB NO.
J6P3274

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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ST. LOUIS, MO 63102 (314) 436-5500
ENGINEERING CORPORATION - 000631

SHEET 53 OF 61

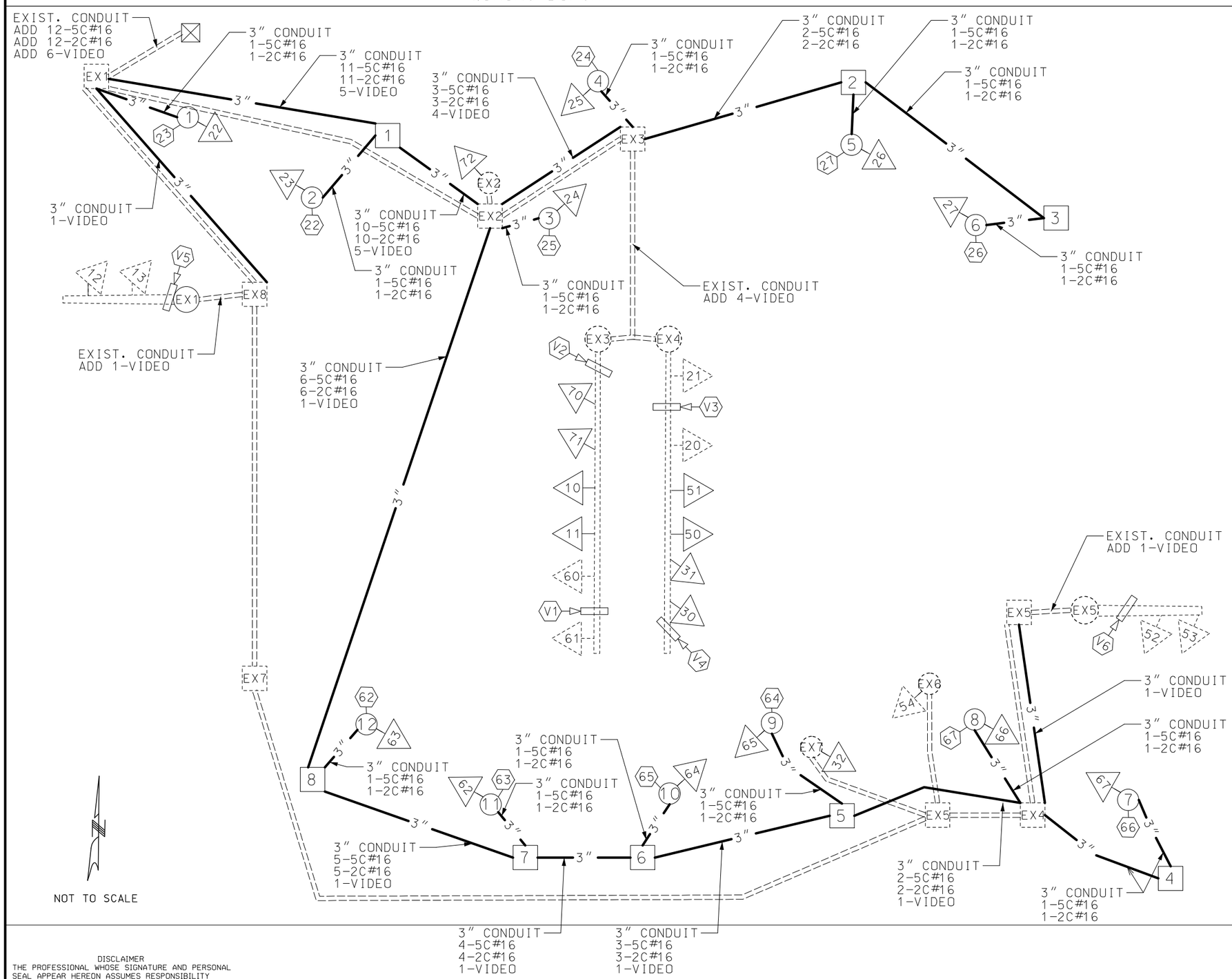
SIGNAL SHEET

ROUTE 100
MANCHESTER ROAD/
ROUTE 141

D37-C

WIRING DIAGRAM

EFFECTIVE: 12-01-17



LEGEND

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

ROUTE 100 MANCHESTER ROAD/ROUTE 141

INTERSECTION

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STATE OF MISSOURI
CASSANDRA MCKEE LEE
NUMBER PE-2023025373
PROFESSIONAL ENGINEER

03/27/2025
Cassandra McKee Lee - Civil
MO PE-2023025373

DATE PREPARED: 3/27/2025

US ROUTE	STATE
100	MO
DISTRICT	SHEET NO.
SL	220

COUNTY: ST. LOUIS
JOB NO.: J6P3274
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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SHEET 54 OF 61

SIGNAL SHEET

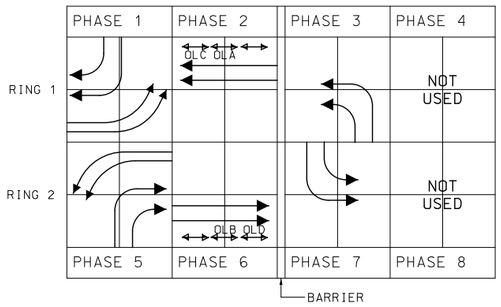
ROUTE 100
MANCHESTER ROAD/
ROUTE 141

D37-D

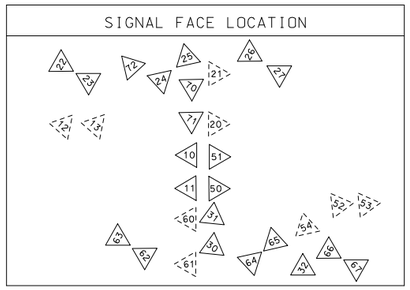
EFFECTIVE: 12-01-17

TRAFFIC PHASING AND COLOR SEQUENCE - ACTUATED CONTROLLERS

	PHASE 1	PHASE 2	PHASE 3	PHASE 4	PHASE 5	PHASE 6	PHASE 7	PHASE 8	OVERLAP A	OVERLAP B	OVERLAP C	OVERLAP D	PED Φ 2	PED Φ 4	PED Φ 6	PED Φ 8	
				NOT USED				NOT USED						NOT USED		NOT USED	
FACE NUMBERS	10 12 11 13	20 21	30 32 31		50 52 51 53	60 61	70 72 71		24 25	64 65	22 23	66 67	22 24 26 23 25 27		62 64 66 63 65 67		FACE NUMBERS
SIGNAL INDICATIONS R	RL R	R	RL R		RL R	R	RL R						DW DW DW		DW DW DW		R
SIGNAL INDICATIONS Y	YL Y	Y	YL Y		YL Y	Y	YL Y										Y
SIGNAL INDICATIONS FYA																	FYA
SIGNAL INDICATIONS G	L G	G	L G		L G	G	L G		W	W	W	W	W W W		W W W		G
DETECTOR ASSIGNMENTS	10 12 11 13	20 21	30 32 31		50 52 51 53	60 61	70 72 71										DETECTOR ASSIGNMENTS
DETECTOR ASSIGNMENTS (PEDS. ONLY)									24 25	64 65	22 23	66 67	22 24 26 23 25 27		62 64 66 63 65 67		
OVERLAP PARENT PHASES									2	6	2	6					



RING STRUCTURE



IF CALLED, ALL NON-CONFLICTING PHASES SHALL COMBINE AND TIME CONCURRENTLY. TIME TO BE DETERMINED BY THE ENGINEER AT SIGNAL TURN ON AND SET IN THE CONTROLLER BY THE CONTRACTOR.

LEGEND

- ACTUATED VEHICULAR MOVEMENT
- PARTIALLY RESTRICTED ACTUATED VEHICULAR MOVEMENT
- NON-ACTUATED VEHICULAR MOVEMENT
- PARTIALLY RESTRICTED NON-ACTUATED VEHICULAR MOVEMENT
- ACTUATED PEDESTRIAN MOVEMENT
- NON-ACTUATED PEDESTRIAN MOVEMENT
- VEHICLE STOPPED

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

FLASHING OPERATION	
ALL	FR
CONTROLLER TYPE	NEMA 8Φ

TRAFFIC SIGNAL CONTROL OPERATION
INTERSECTION OF ROUTE 100 MANCHESTER ROAD
WITH ROUTE 141

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ROUTE 100 MANCHESTER ROAD/ROUTE 141
INTERSECTION

STATE OF MISSOURI
CASSANDRA MCKEE LEE
NUMBER PE-2023025373
PROFESSIONAL ENGINEER
03/27/2025
Cassandra McKee Lee - Civil
MO PE-2023025373

DATE PREPARED: 3/27/2025
US ROUTE: 100 | STATE: MO
DISTRICT: SL | SHEET NO.: 221
COUNTY: ST. LOUIS
JOB NO.: J6P3274
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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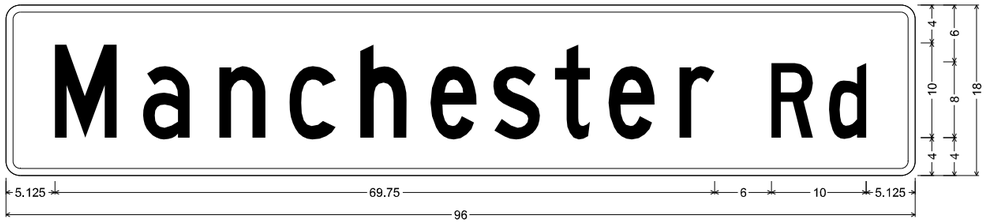
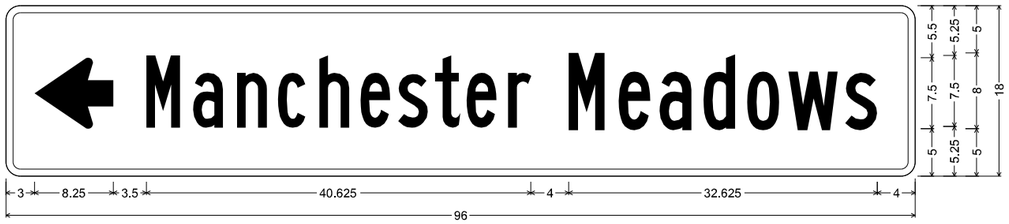
SHEET 55 OF 61
SIGNAL SHEET
ROUTE 100 MANCHESTER ROAD/ ROUTE 141
D38-A



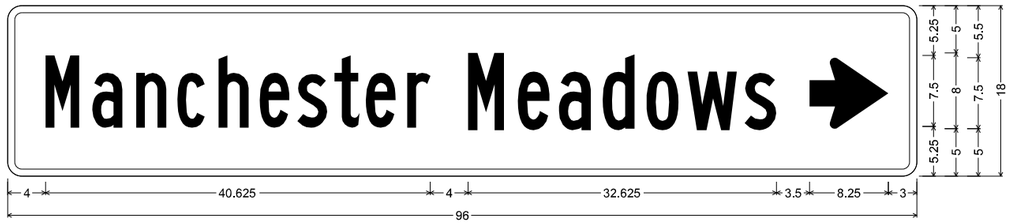
D3-1 SH-FLAT SHEET;
1.500" Radius, 0.750" Border, White on, Green;
"Manchester", C; "Rd", C;
Table of letter and object lefts

M	a	n	c	h	e	s	t	e	r	R	d
5.125	14.500	22.500	29.875	37.375	44.875	51.500	58.000	63.625	71.125	80.875	86.875



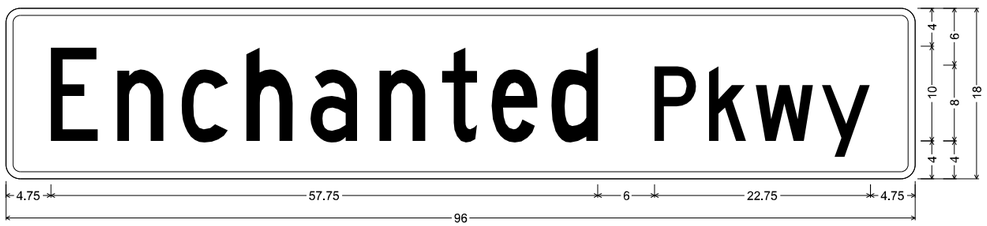
D3-1 SH-FLAT SHEET;
1.500" Radius, 0.750" Border, White on, Green;
"Manchester Meadows", B 70% spacing;
Table of letter and object lefts

◁	M	a	n	c	h	e	s	t	e	r	M	e	a	d	o	w	s
3.000	14.750	19.750	24.375	28.750	33.125	37.375	41.375	45.250	48.625	53.000	59.375	64.750	69.000	73.625	78.250	82.625	88.625



D3-1 SH-FLAT SHEET;
1.500" Radius, 0.750" Border, White on, Green;
"Manchester Meadows", B 70% spacing;
Table of letter and object lefts

M	a	n	c	h	e	s	t	e	r	M	e	a	d	o	w	s	▷
4.000	9.000	13.625	17.875	22.250	26.625	30.625	34.500	37.875	42.250	48.625	53.875	58.250	62.875	67.500	71.750	77.750	84.750



D3-1 SH-FLAT SHEET;
1.500" Radius, 0.750" Border, White on, Green;
"Enchanted", C 75% spacing; "Pkwy", C 75% spacing;
Table of letter and object lefts

E	n	c	h	a	n	t	e	d	P	k	w	y
4.750	11.750	18.500	25.375	32.125	39.375	46.000	51.250	57.625	68.500	74.250	79.125	86.125

STATE OF MISSOURI
KENDRA MILLER
NUMBER PE-2014041301
PROFESSIONAL ENGINEER
THIS SHEET HAS BEEN SIGNED, SEALED, AND DATED ELECTRONICALLY.

DATE PREPARED
3/28/2025

MO ROUTE	STATE
100	MO
DISTRICT	SHEET NO.
SL	222

COUNTY
ST. LOUIS

JOB NO.
J6P3274

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)

GBA
16305 SWINGLEY RIDGE RD
ST. 300
CHESTERFIELD, MO 63017
314.231.0100
GBAteam.com

GEORGE BUTLER
ASSOCIATES, INC.
PRO. ENGINEER 000133
ARCHITECT 000212
PRO. LAND SURVEYOR 000059

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

SIGNAL SHEET

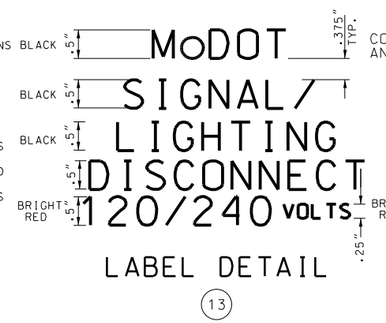
MO ROUTE 100
SIGN DETAILS

KENDRA MILLER
PROFESSIONAL ENGINEER
PE-2014041301

REV.

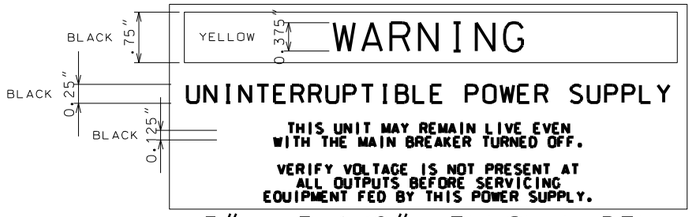
GENERAL NOTES:

1. ALTERNATE CABINET DIMENSIONS WILL BE ALLOWED AS APPROVED BY THE ENGINEER. INTERIOR CABINET VOLUME SHALL BE EQUAL TO OR GREATER THAN THAT SHOWN ON PLANS AND PROPER CLEARANCES SHALL BE PROVIDED FOR ALL EQUIPMENT. CONCRETE BASE DIMENSIONS SHALL BE MODIFIED TO FIT THE CABINET SUPPLIER.
2. PLACEMENT OF ALL ITEMS SHALL BE APPROVED BY THE ENGINEER.
3. SCHEMATIC DIAGRAM SHALL BE MOUNTED ON INSIDE OF CABINET DOOR.
4. THE UTILITY SHALL BE NOTIFIED IN WRITING 30 DAYS PRIOR TO DATE SERVICE WILL BE REQUIRED.
5. ALL CABINET OPENINGS SHALL BE COVERED AND SEALED WITH LIFETIME SILICONE CAULK.
6. ALL MATERIALS REQUIRED EXCLUDING REFERENCE ITEMS AS SHOWN ON THE DRAWING SHALL BE INCLUDED IN PRICE BID FOR 'PAD MOUNTED 120V/240V SIGNAL POWER SUPPLY AND LIGHTING CONTROLLER WITH UNINTERRUPTIBLE POWER SUPPLY.' CABLE AND CONDUIT FROM POWER SUPPLY ASSEMBLY TO UTILITY COMPANY FACILITIES SHALL BE INCLUDED IN THE BID PRICE.
7. REFER TO PLAN SHEET DETAIL TO DETERMINE IF A UTILITY POLE OR PEDESTAL WILL BE REQUIRED.
8. CABINET SHALL BE LOCATED WITH A MINIMUM 36" CLEARANCE, FRONT, BACK, AND SIDES.
9. SEE CABINET MANUFACTURER FOR MOUNTING BASE DIMENSIONS AND ANCHOR BOLT LOCATIONS.

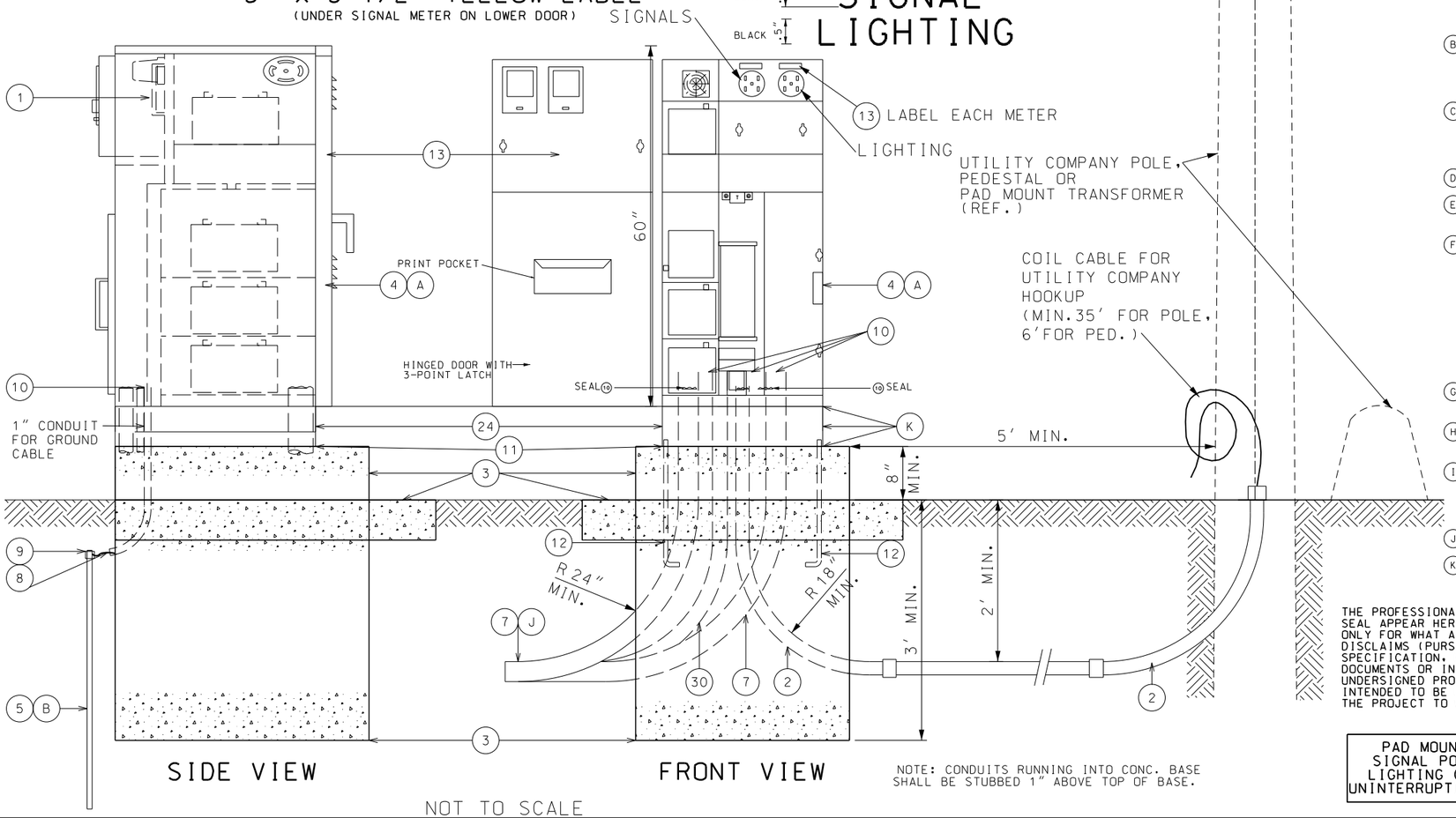


LABEL DETAIL

13



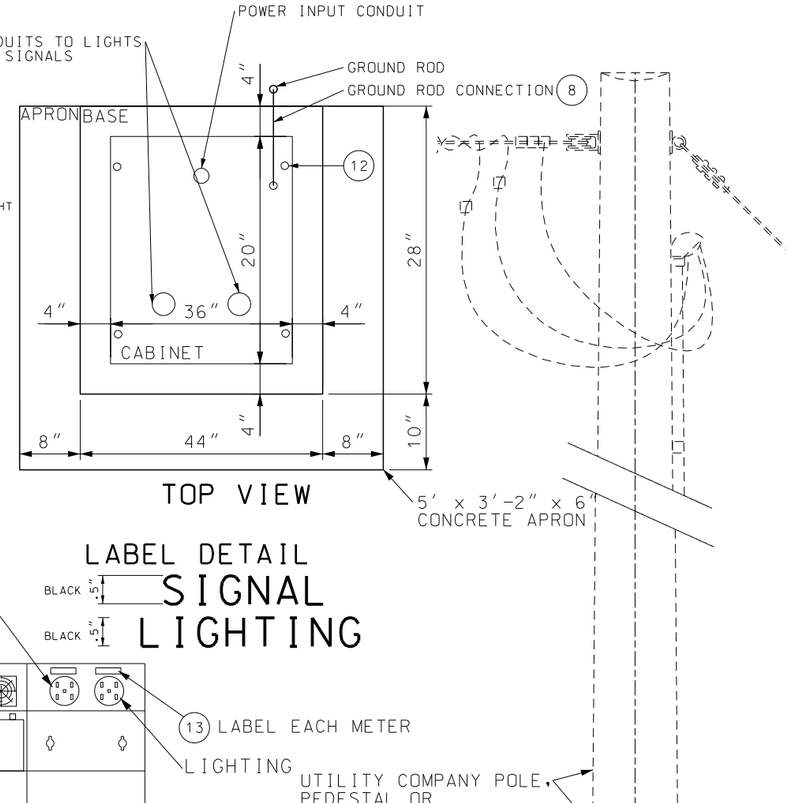
5" x 3 1/2" YELLOW LABEL
(UNDER SIGNAL METER ON LOWER DOOR)



SIDE VIEW FRONT VIEW

NOTE: CONDUITS RUNNING INTO CONC. BASE SHALL BE STUBBED 1" ABOVE TOP OF BASE.

NOT TO SCALE



LABEL DETAIL

LIST OF MATERIALS	
ITEM	DESCRIPTION
1	METER SOCKET, 200 AMP, WITH LEVER TEST BYPASS
2	RIGID STEEL CONDUIT, 2" MIN. TO UTILITY CO. FACILITIES
3	CLASS B CONCRETE, 1.3 cu. yd. (MIN.)
4	NEMA 3R, DUST-TIGHT, WATERTIGHT CABINET
5	GROUND ROD, 3/4" DIA. x 8' MIN. (MIN. 8' IN SOIL)
6	PHOTOELECTRIC SWITCH AND SOCKET, 105/285 V., 1000 WATT
7	2" MIN. SCH 40 PVC CONDUIT (REF.)
8	#2 AWG MIN., 600 V., GROUND CABLE
9	EXOTHERMIC WELD WIRE TO ROD
10	PLIABLE SEALANT
11	LIFETIME SILICONE CAULK
12	ANCHOR BOLTS, 5/8-11 x 18" LONG BOLTS, HOT DIP GALVANIZED, 4 REQUIRED
13	WEATHERPROOF ADHESIVE LABEL, VINYL RAISED LETTERING (OR EQUIVALENT, SEE DETAIL)
14	INSULATED TERMINAL BLOCK
15	2-POLE, 20 AMP, 120V COIL LIGHTING CONTACTOR
16	2-POLE, 650 VOLT LIGHTNING ARRESTER
17	1-POLE, 15 AMP, TYPE B BREAKER TO PHOTOELECTRIC SWITCH
18	MANUAL-AUTO SWITCH
19	INSULATED GROUNDABLE NEUTRAL, 100 AMP
20	2-POLE, TYPE A MAIN BREAKER
21	2-POLE, 15 AMP (MIN), TYPE A BREAKERS TO LIGHTING CIRCUITS *
22	1-POLE, 15 AMP (MIN.), TYPE A BREAKER TO SIGNALS *
23	#2 AWG MIN., 600 V., POWER CABLE *
24	6" PEDESTAL RISER
25	12V GEL CELL BATTERIES IN SERIES (4 MINIMUM)
26	30A GENERATOR MALE BASE
27	INVERTER (1100VA MINIMUM)
28	1-POLE, 40 AMP, TYPE B UPS BREAKER
29	1-POLE, 15 AMP, TYPE B FAN BREAKER
30	1 ½" CONDUIT OUT TO SIGNAL CABINET (CAT 5E AND CONTROL WIRING)
*	SEE PLANS FOR SIZE

NOTES

(A) CABINET WITH POWER SUPPLY SHALL BE ALUMINUM OR STAINLESS STEEL. ALL HARDWARE, HINGES, CATCHES, ETC. SHALL BE STAINLESS STEEL. METER SOCKET AND OTHER EQUIPMENT AND MATERIALS SHALL BE U.L. APPROVED AND CONFORM TO THE REQUIREMENTS OF THE UTILITY COMPANY OR MUNICIPALITY PROVIDING POWER.

(B) IF SUBSURFACE CONDITIONS EXIST WHICH PROHIBIT THE PLACEMENT OF THE GROUND ROD IN A VERTICAL POSITION, THE ROD MAY BE DRIVEN AT AN OBLIQUE ANGLE NOT TO EXCEED 45 DEGREES FROM VERTICAL OR BURIED IN A TRENCH AT LEAST 30 INCHES DEEP. CONNECTION TO GROUND ROD SHALL BE CAD WELDED.

(C) LIGHTING SYSTEM VOLTAGE AS SPECIFIED ON PLANS (120 OR 240 VOLTS). IF LIGHTS ARE TO BE MOUNTED ON SIGNAL POSTS, VOLTAGE MUST BE 120 VOLTS. 240 VOLT LIGHTS ARE NOT TO BE MOUNTED ON OR WIRED THROUGH SIGNAL POSTS, CONDUIT, OR PULL BOXES.

(D) LOCATE PHOTOELECTRIC SWITCH AT CENTER OF WINDOW.

(E) IF FOR REASONS OF VOLTAGE DROP A WIRE SIZE IS SPECIFIED LARGER THAN #2 AWG, A LARGER TERMINAL BLOCK SHALL BE INSTALLED FOR THAT CIRCUIT.

(F) BREAKER SIZING:

SIZE (AMPS)	240V TOTAL CIRCUIT LOAD (WATTS)	120V TOTAL CIRCUIT LOAD (WATTS)
15	0-2800	0-1390
20	2850-3700	1400-1850
25	3750-4600	1860-2320
30	4650-5500	2330-2780
35	5550-6500	-
40	6550-7400	-

CIRCUIT LOAD INCLUDES LOAD DUE TO LINE LOSS, LAMP, AND BALLAST LOAD.

(G) ALL CIRCUIT BREAKERS SHALL CONFORM TO SECTION 901.4 OF THE STANDARD SPECIFICATIONS.

(H) TAPE BATTERY TEMPERATURE SENSOR TO THE SIDE OF EITHER BATTERY #2 OR BATTERY #3. SENSOR SHOULD BE TO THE MIDDLE OF THE BATTERY BANK.

(I) UTILITY COMPANY SHALL DECIDE IF LIGHTNING ARRESTORS ARE TO BE CONNECTED ON THE LINE SIDE OR THE LOAD SIDE OF THE METER. THE UTILITY COMPANY SHALL ALSO DETERMINE WHERE THE LIGHTNING ARRESTOR SHALL BE MOUNTED.

(J) INCLUDE ADDITIONAL CONDUITS AS NECESSARY FOR AUXILIARY CIRCUITS.

(K) SEE CABINET MANUFACTURER FOR MOUNTING BASE DIMENSIONS AND ANCHOR BOLT LOCATIONS.

DISCLAIMER
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SHEET 57 OF 61

PAD MOUNTED 120V/240V SIGNAL POWER SUPPLY AND LIGHTING CONTROLLER WITH UNINTERRUPTIBLE POWER SUPPLY

SIGNAL SHEET

MO ROUTE 100
MANCHESTER ROAD
SIGNAL DETAIL

STATE OF MISSOURI
KENDRA MILLER
NUMBER PE-2014041301
PROFESSIONAL ENGINEER

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

DATE PREPARED
3/28/2025

MO ROUTE	STATE
100	MO
DISTRICT	SHEET NO.
SL	223

COUNTY
ST. LOUIS

JOB NO.
J6P3274

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

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REV.	DESCRIPTION	DATE

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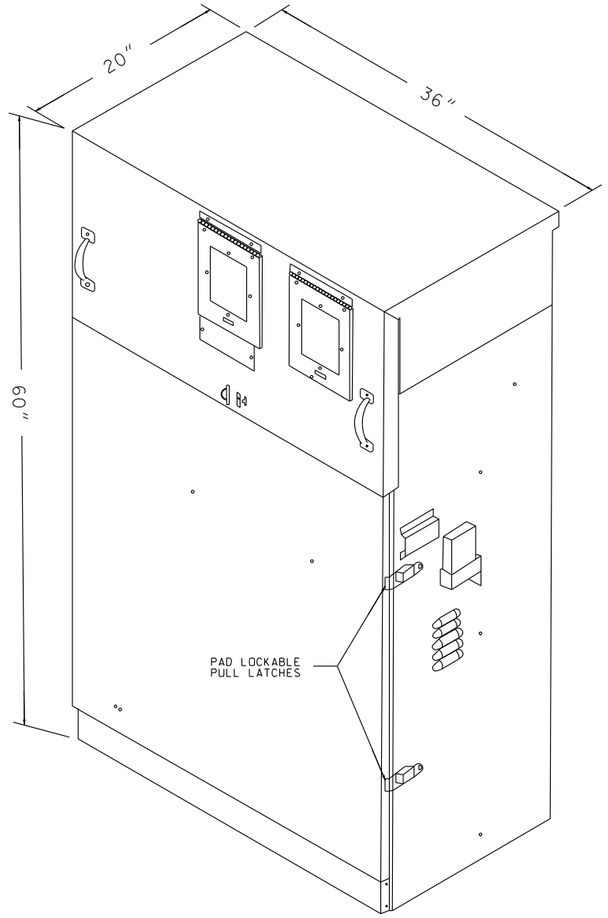
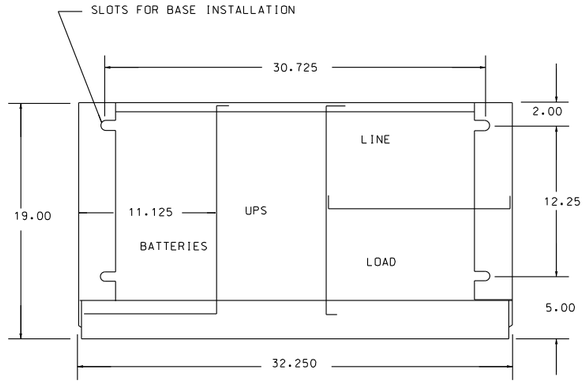
ARCHITECT 000212
PRO. LAND SURVEYOR 000059

KENDRA MILLER
PROFESSIONAL ENGINEER
PE-2014041301

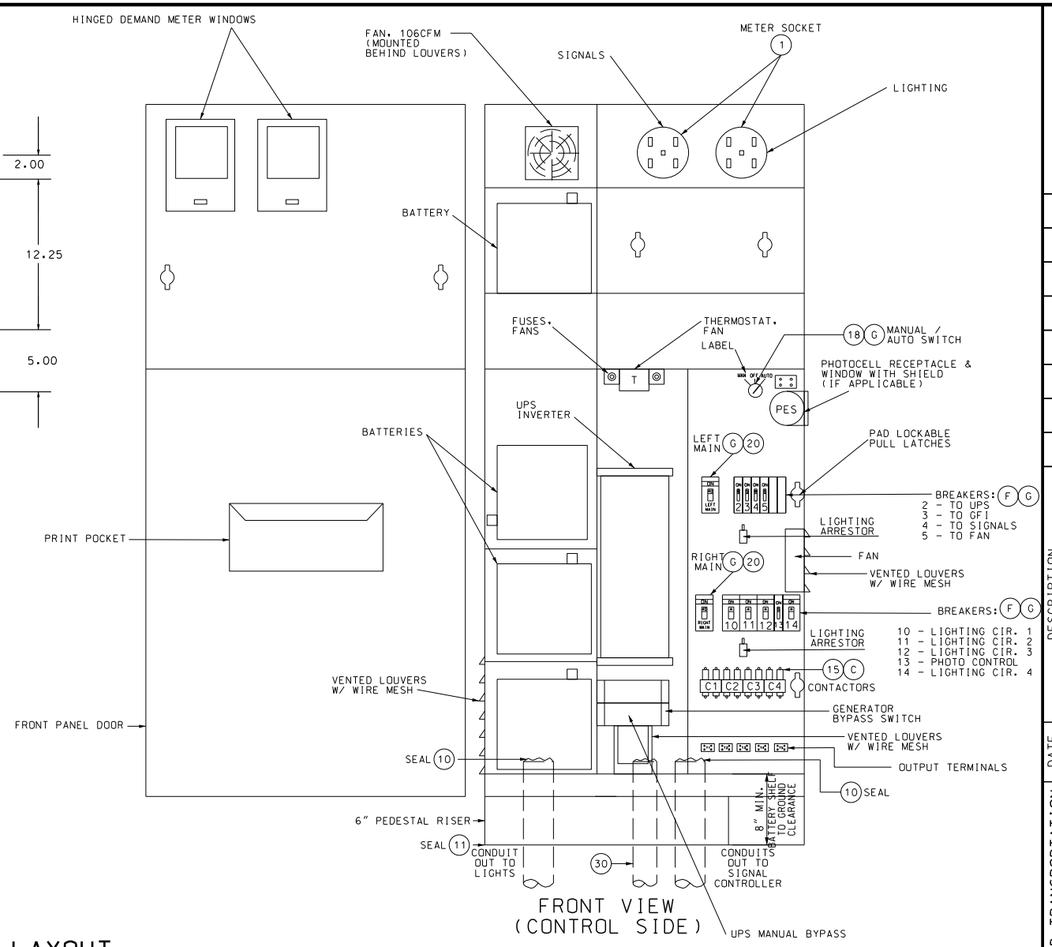




PEDESTAL PLAN VIEW

MOUNTING SLOT DETAIL

NOTE: WHERE SPACE PROVIDES, UPS SHALL HAVE ADDITIONAL LABELS DENOTING 'LIGHTING' CONTROLS



FRONT VIEW
(CONTROL SIDE)

NOTE: CONDUITS RUNNING INTO CONC. BASE SHALL BE STUBBED 1" ABOVE TOP OF BASE.

EQUIPMENT LAYOUT

NOT TO SCALE

LIST OF MATERIALS			
ITEM	DESCRIPTION		
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25	12V GEL CELL BATTERIES IN SERIES (4 MINIMUM)	✳	SEE PLANS FOR SIZE

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CIRCUIT LOAD INCLUDES LOAD DUE TO LINE LOSS, LAMP, AND BALLAST LOAD.

(G) ALL CIRCUIT BREAKERS SHALL CONFORM TO SECTION 901.4 OF THE STANDARD SPECIFICATIONS.

(H) TAPE BATTERY TEMPERATURE SENSOR TO THE SIDE OF EITHER BATTERY #2 OR BATTERY #3. SENSOR SHOULD BE TO THE MIDDLE OF THE BATTERY BANK.

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PAD MOUNTED 120V/240V SIGNAL POWER SUPPLY AND LIGHTING CONTROLLER WITH UNINTERRUPTIBLE POWER SUPPLY

SIGNAL SHEET

MO ROUTE 100
MANCHESTER ROAD
SIGNAL DETAIL

STATE OF MISSOURI
KENDRA MILLER
NUMBER PE-2014041301
PROFESSIONAL ENGINEER

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

DATE PREPARED 3/28/2025

MO ROUTE	STATE
100	MO
DISTRICT	SHEET NO.
SL	224

COUNTY: ST. LOUIS
JOB NO.: J6P3274
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)

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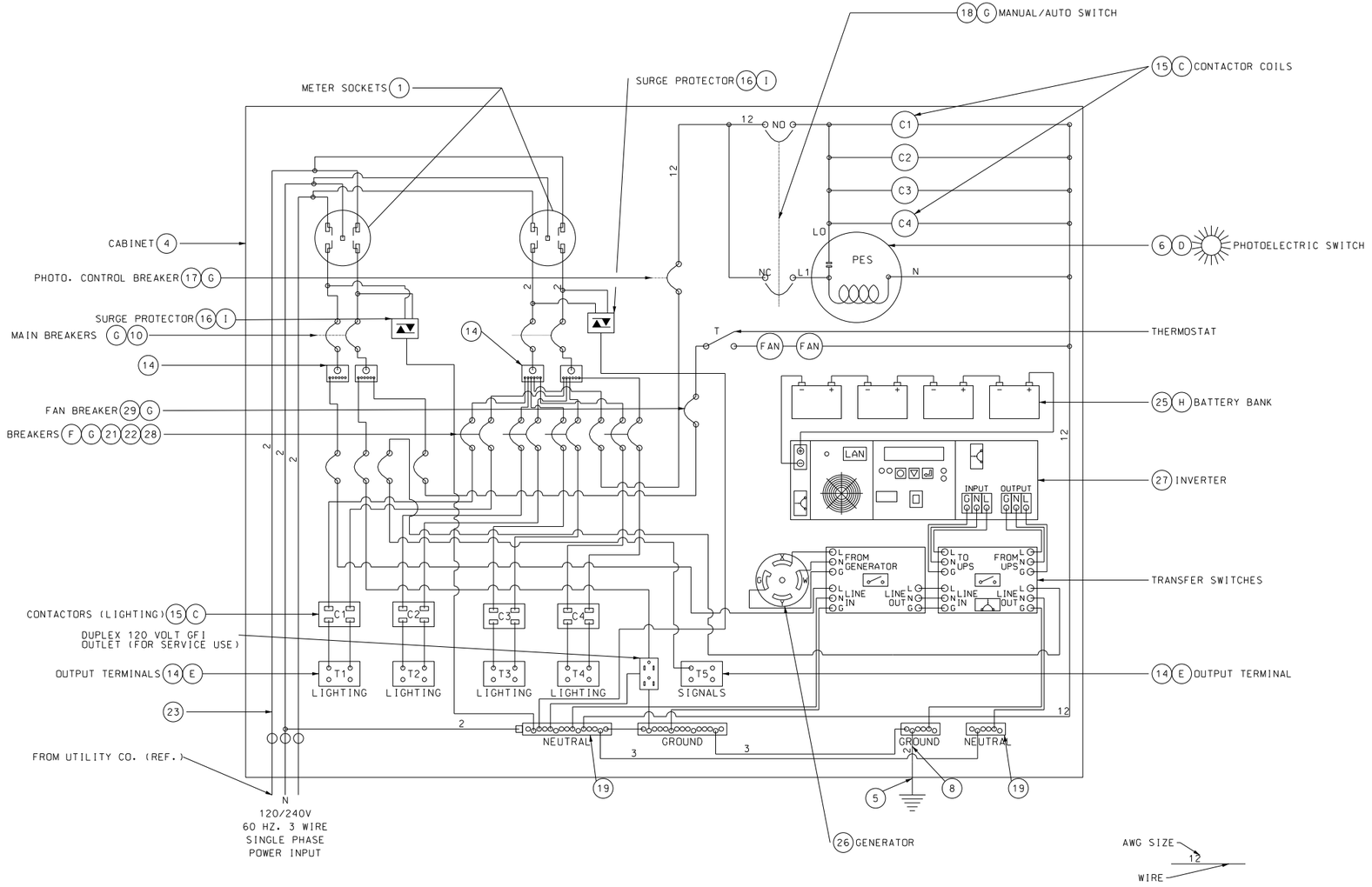

WIRING DIAGRAM

LIST OF MATERIALS	
ITEM	DESCRIPTION
1	METER SOCKET, 200 AMP, WITH LEVER TEST BYPASS
2	RIGID STEEL CONDUIT, 2" MIN. TO UTILITY CO. FACILITIES
3	CLASS B CONCRETE, 1.3 cu. yd. (MIN.)
4	NEMA 3R, DUST-TIGHT, WATERTIGHT CABINET
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✳	SEE PLANS FOR SIZE

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(C) LIGHTING SYSTEM VOLTAGE AS SPECIFIED ON PLANS (120 OR 240 VOLTS). IF LIGHTS ARE TO BE MOUNTED ON SIGNAL POSTS, VOLTAGE MUST BE 120 VOLTS. 240 VOLT LIGHTS ARE NOT TO BE MOUNTED ON OR WIRED THROUGH SIGNAL POSTS. CONDUIT, OR PULL BOXES.

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PAD MOUNTED 120V/240V SIGNAL POWER SUPPLY AND LIGHTING CONTROLLER WITH UNINTERRUPTIBLE POWER SUPPLY

SHEET 59 OF 61

SIGNAL SHEET

MO ROUTE 100
MANCHESTER ROAD
SIGNAL DETAIL

STATE OF MISSOURI
KENDRA MILLER
NUMBER PE-2014041301
PROFESSIONAL ENGINEER

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

DATE PREPARED 3/28/2025

MO ROUTE	STATE
100	MO
DISTRICT	SHEET NO.
SL	225

COUNTY: ST. LOUIS
JOB NO.: J6P3274
CONTRACT ID.:
PROJECT NO.:
BRIDGE NO.:

REV.	DESCRIPTION	DATE

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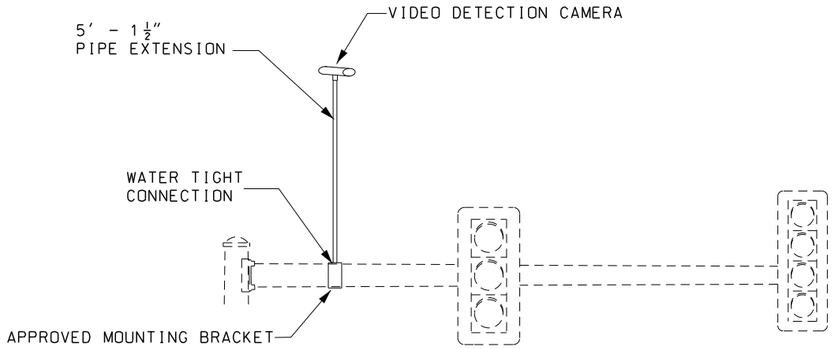
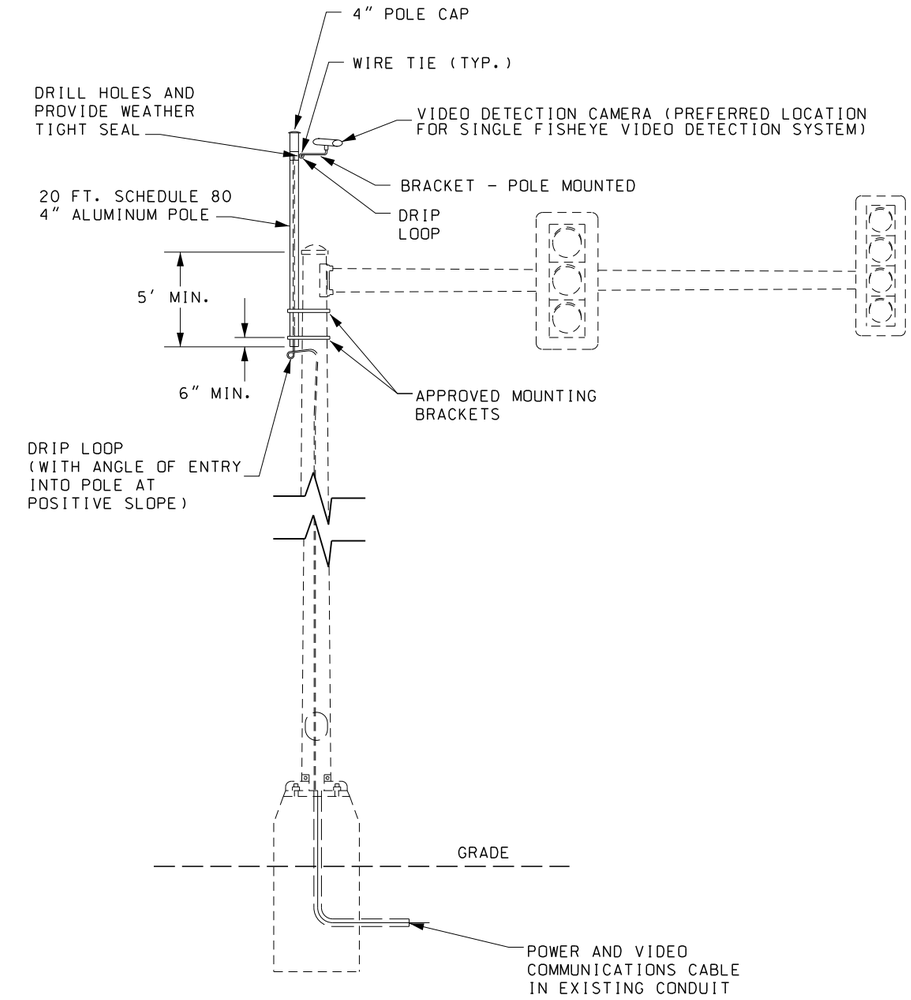


CAMERAS SHALL BE AS CLOSE AS POSSIBLE TO CENTER OF SIGNALIZED APPROACH



DISCLAIMER
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STATE OF MISSOURI
KENDRA MILLER
NUMBER PE-2014041301
PROFESSIONAL ENGINEER

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

DATE PREPARED
3/28/2025

MO ROUTE	STATE
100	MO
DISTRICT	SHEET NO.
SL	226

COUNTY
ST. LOUIS

JOB NO.
J6P3274

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)

GBA
16305 SWINGLEY RIDGE RD
ST. 300
CHESTERFIELD, MO 63017
314.231.0100
GBAteam.com

GEORGE BUTLER
ASSOCIATES, INC.
PRO. ENGINEER 000133
ARCHITECT 000212
PRO. LAND SURVEYOR 000059

KENDRA MILLER
PROFESSIONAL
ENGINEER
PE-2014041301

REV.

SHEET 60 OF 61

SIGNAL SHEET

MO ROUTE 100
MANCHESTER ROAD
SIGNAL DETAIL

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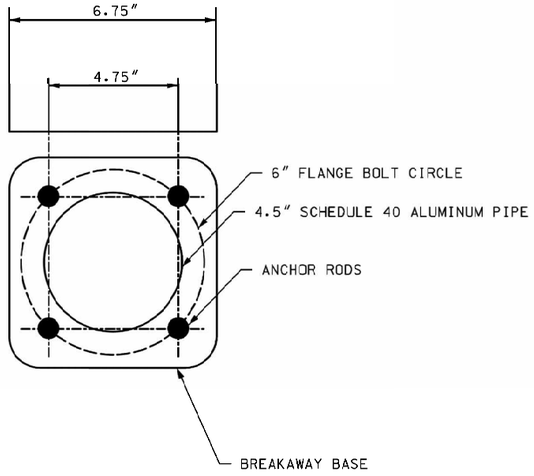
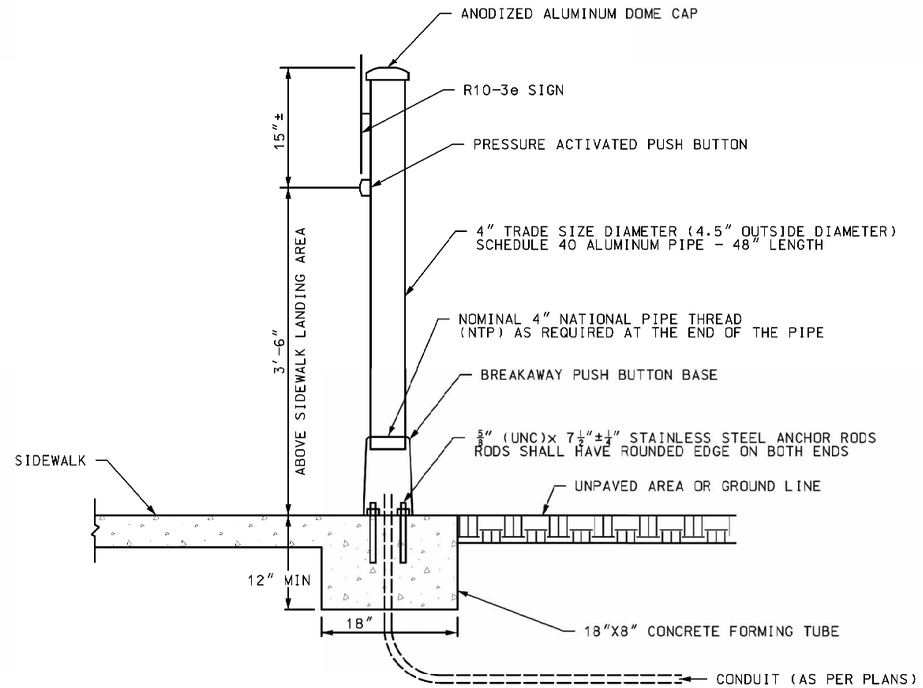


ANCHOR ROD PLACEMENT



PUSH BUTTON STANCHION

NOTES:

- THE PUSH BUTTON STANCHION FOUNDATION IS CONSTRUCTED AS PART OF THE SIDEWALK. INCREASE THE SIDEWALK THICKNESS TO 12" (MIN.) TO PROVIDE FOR THE PUSH BUTTON STANCHION FOUNDATION.
- INSTALLATION OF THE PUSH BUTTON STANCHION SHALL BE PER MANUFACTURER'S REQUIREMENTS.
- CABLES SHALL HAVE A SLIT-FIT CONNECTION IN THE PEDESTAL THAT WILL DETACH IN THE EVENT THE POLE IS STRUCK.

NOT TO SCALE

SHEET 61 OF 61

SIGNAL SHEET

MO ROUTE 100
MANCHESTER ROAD
SIGNAL DETAIL

STATE OF MISSOURI
KENDRA MILLER
NUMBER PE-2014041301
PROFESSIONAL ENGINEER

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

DATE PREPARED
3/28/2025

MO ROUTE	STATE
100	MO
DISTRICT	SHEET NO.
SL	227

COUNTY
ST. LOUIS

JOB NO.
J6P3274

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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GEORGE BUTLER ASSOCIATES, INC.
PRO. ENGINEER 000133
ARCHITECT 000212
PRO. LAND SURVEYOR 000059

KENDRA MILLER
PROFESSIONAL ENGINEER
PE-2014041301

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

SCALE

0 50 100 150

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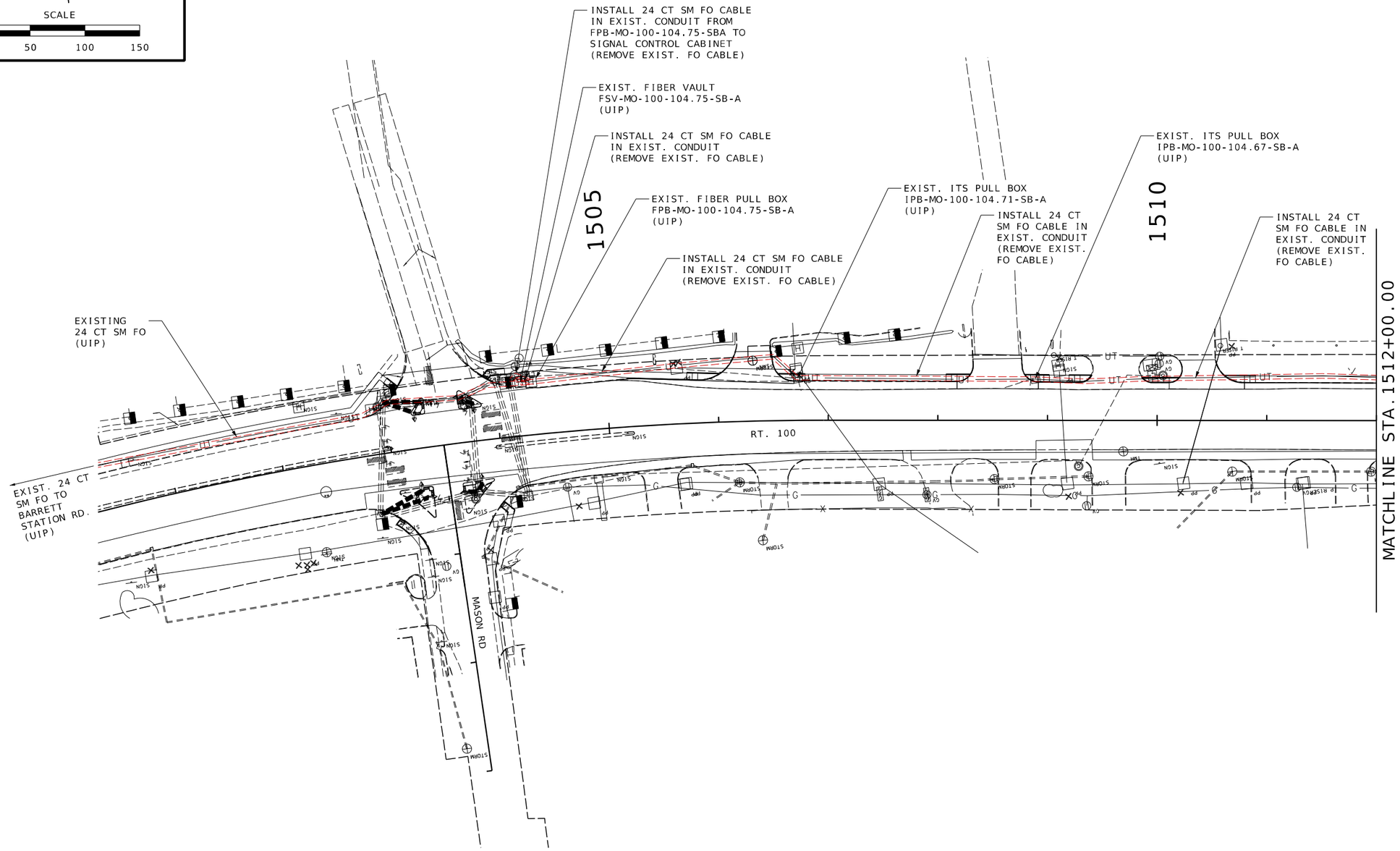

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STATE OF MISSOURI
KENDRA MILLER
NUMBER PE-2014041301
PROFESSIONAL ENGINEER

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

DATE PREPARED
3/28/2025

MO ROUTE	STATE
100	MO
DISTRICT	SHEET NO.
SL	228

COUNTY
ST. LOUIS

JOB NO.
J6P3274

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DESCRIPTION	DATE

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

GEORGE BUTLER ASSOCIATES, INC.
PRO. ENGINEER 000133
ARCHITECT 000212
PRO. LAND SURVEYOR 000059

SHEET 1 OF 11

ITS SHEET

MO ROUTE 100
MANCHESTER ROAD

KENDRA MILLER
PROFESSIONAL ENGINEER
PE-2014041301

REV.

SCALE

0 50 100 150

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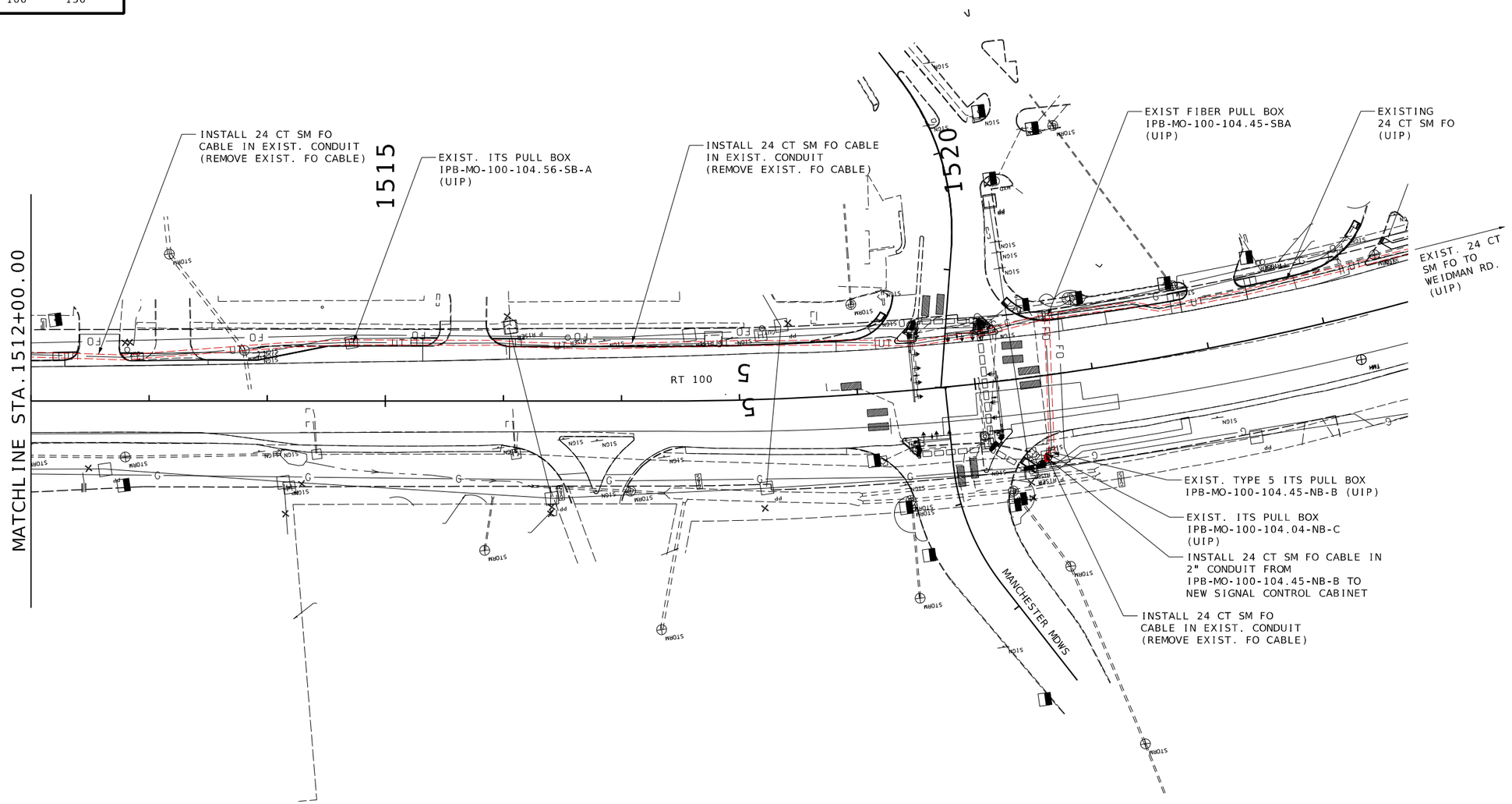

SHEET 2 OF 11

ITS SHEET

MO ROUTE 100
MANCHESTER ROAD

KENDRA MILLER
PROFESSIONAL ENGINEER
PE-2014041301

STATE OF MISSOURI
KENDRA MILLER
NUMBER PE-2014041301
PROFESSIONAL ENGINEER

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

DATE PREPARED
3/28/2025

MO ROUTE	STATE
100	MO
DISTRICT	SHEET NO.
SL	229

COUNTY
ST. LOUIS

JOB NO.
J6P3274

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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PRO. ENGINEER 000133
ARCHITECT 000212
PRO. LAND SURVEYOR 000059

REV.

SCALE

0 50 100 150

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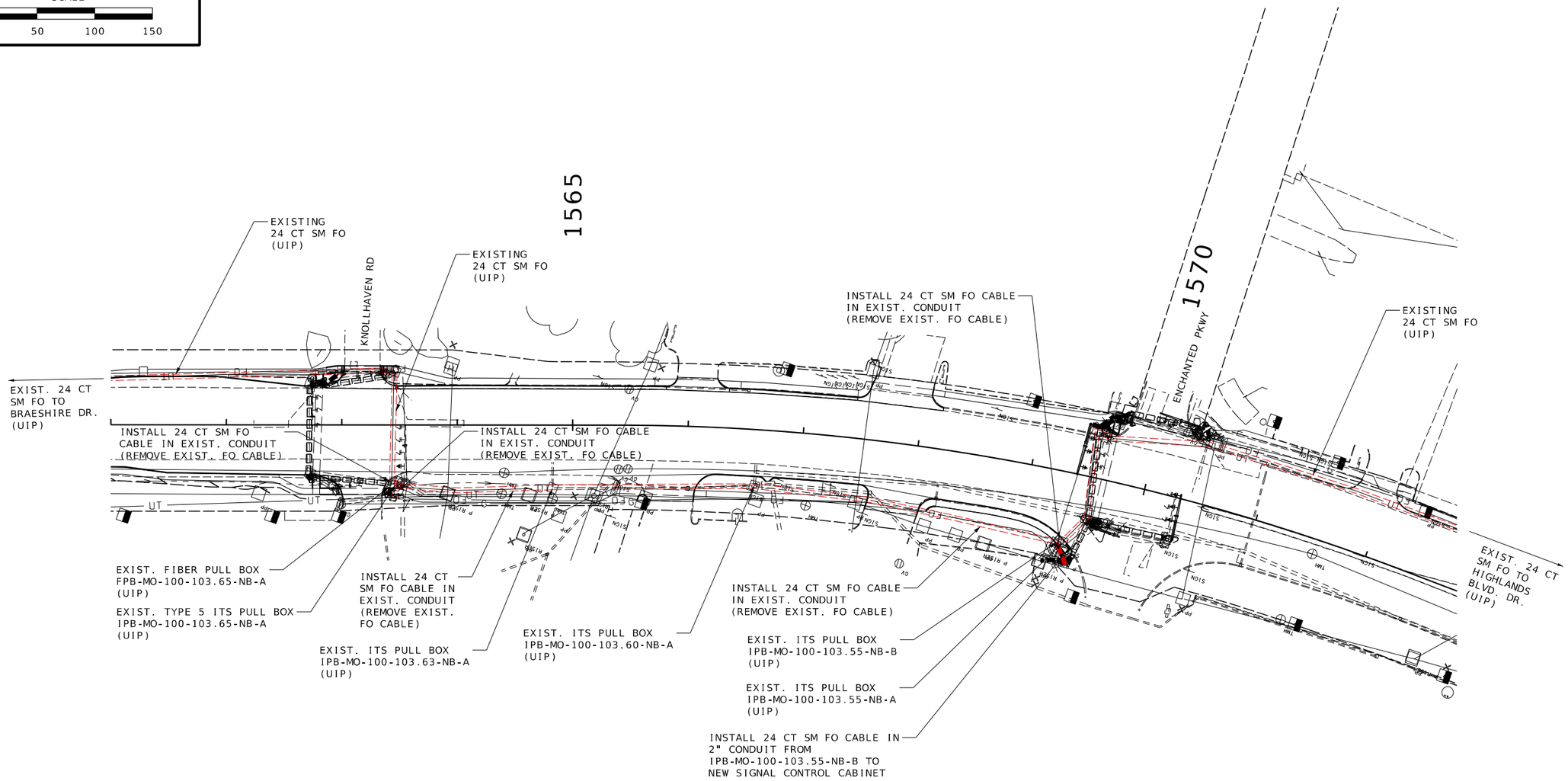

STATE OF MISSOURI
KENDRA MILLER
NUMBER PE-2014041301
PROFESSIONAL ENGINEER

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DATE PREPARED
3/28/2025

MO ROUTE	STATE
100	MO
DISTRICT	SHEET NO.
SL	230

COUNTY
ST. LOUIS

JOB NO.
J6P3274

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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PRO. ENGINEER 000133
ARCHITECT 000212
PRO. LAND SURVEYOR 000059

SHEET 3 OF 11

ITS SHEET

MO ROUTE 100
MANCHESTER ROAD

KENDRA MILLER
PROFESSIONAL ENGINEER
PE-2014041301

REV.

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STATE OF MISSOURI
KENDRA MILLER
NUMBER PE-2014041301
PROFESSIONAL ENGINEER

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

ITS CONDUIT, FIBER, AND PULL BOX

CONDUIT (WITH #14 TRACER WIRE)

FROM	TO	CENTER TO CENTER DISTANCE	TRENCH 2"	TRENCH	TRENCH	TRENCH	PUSHED 2"	PUSHED	PUSHED	PUSHED	REMARKS
IPB-MO-100-104.45-NB-C	☒	10'	15'								ITS SHEET 2
IPB-MO-100-103.55-NB-B	☒	15'	20'								ITS SHEET 3
SUBTOTALS 1			35'								

FIBER

FROM	TO	CENTER TO CENTER DISTANCE	COIL	24 CT SM FO TOTAL	REMARKS
FPB-MO-100-104.75-SB-A	FSV-MO-100-104.75-SB-A	17'	30'	47'	ITS SHEET 1
FSB-MO-100-104.75-SB-A	☒	10'	60'	70'	ITS SHEET 1 (INCLUDED 60' FIBER SLACK)
FPB-MO-100-104.75-SB-A	IPB-MO-100-104.71-SB-A	243	30'	273'	ITS SHEET 1
IPB-MO-100-104.71-SB-A	IPB-MO-100-104.67-SB-A	218	30'	248'	ITS SHEET 1
IPB-MO-100-104.67-SB-A	IPB-MO-100-104.56-SB-A	583'	30'	613'	ITS SHEET 2
IPB-MO-100-104.56-SB-A	IPB-MO-100-104.45-SB-A	590'	30'	620'	ITS SHEET 2
IPB-MO-100-104.45-SB-A	IPB-MO-100-104.45-NB-B	115'	60'	175'	ITS SHEET 2 (INCLUDED 60' FIBER SLACK)
IPB-MO-100-104.45-NB-B	IPB-MO-100-104.45-NB-C	7'	30'	37'	ITS SHEET 2
IPB-MO-100-104.45-NB-B	☒	10'	60'	70'	ITS SHEET 2 (INCLUDED 60' FIBER SLACK)
FPB-MO-100-103.65-NB-A	IPB-MO-100-103.65-NB-A	5'	30'	35'	ITS SHEET 3
IPB-MO-100-103.65-NB-A	☒	15'	60'	75'	ITS SHEET 2 (INCLUDED 60' FIBER SLACK)
IPB-MO-100-103.65-NB-A	IPB-MO-100-103.63-NB-A	132'	30'	162'	ITS SHEET 3
IPB-MO-100-103.63-NB-A	IPB-MO-100-103.60-NB-A	175'	30'	205'	ITS SHEET 3
IPB-MO-100-103.60-NB-A	IPB-MO-100-103.55-NB-B	267'	30'	297'	ITS SHEET 3
IPB-MO-100-103.55-NB-B	☒	15'	60'	75'	ITS SHEET 3 (INCLUDED 60' FIBER SLACK)
SUBTOTALS 1				3002'	

PULL BOX/SPLICE BOX

LOCATION	CLASS 2	CLASS 5

DATE PREPARED
3/28/2025

MO ROUTE 100 | STATE MO
DISTRICT SL | SHEET NO. 231
COUNTY ST. LOUIS
JOB NO. J6P3274
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)

GBA
16305 SWINGLEY RIDGE RD
ST. 300
CHESTERFIELD, MO 63017
314.231.0100
GBAteam.com

GEORGE BUTLER ASSOCIATES, INC.
PRO. ENGINEER 000133
ARCHITECT 000212
PRO. LAND SURVEYOR 000059

SHEET 4 OF 11

MO ROUTE 100 ITS

QUANTITIES

MO ROUTE 100
ITS QUANTITIES

KENDRA MILLER
PROFESSIONAL ENGINEER
PE-2014041301

REV.

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ITS NEWORKING EQUIPMENT

LOCATION	INSTALL OR RELOCATE EXISTING AND NEW COMMUNICATION EQUIPMENT	REINSTALL ETHERNET SWITCH	INSTALL ETHERNET SWITCH	REINSTALL MULTIMODE FIBER OPTIC DATA MODEM AND DEVICE SERVER	REINSTALL IP ADDRESSABLE POWER STRIP	WALL MOUNTED INTERCONNECT CENTER	REINSTALL ETHERNET BRIDGE RADIO	INSTALL IP ADDRESSABLE POWER STRIP	NEW FIBER DISTRIBUTION UNIT (FDU)	FO PIGTAIL	FO JUMPER	FO FUSION SPLICE	REMOVE-IN-PAVEMENT WIRELESS DETECTION SYSTEM PER INTERSECTION	INSTALL CONDUIT INTO EXISTING BOX	INSTALL CCTV CAMERA	RELOCATE EXISTING CCTV CAMERA
	(EA)	(EA)	(EA)	(EA)	(EA)	(EA)	(EA)	(EA)	(EA)	(EA)	(EA)	(EA)	(EA)	(EA)	(EA)	(EA)
BARRETT STATION ROAD													1			
MASON ROAD	1	1			1	1			1	4		26			1	
MANCHESTER MEADOWS	1	1				1		1	1	4		26			1	
WEIDMAN ROAD	1	1			1				1							
BRAESHIRE DRIVE	1	1						1	1						1	
KNOLLHAVEN ROAD	1	1				1		1	1	4		26	1			
ENCHANTED PARKWAY	1	1				1		1	1	4		26				1
HIGHLANDS BOULEVARD DRIVE	1							1								
ROUTE 141	1	1						1	1				1			
TOTALS	8	7 *			2 *	4		6	7	16		104	3		3	1

* ITEM WILL BE INCLUDED UNDER THE BID ITEM 910-99.02
"INSTALL OR RELOCATE EXISTING AND NEW COMMUNICATION EQUIPMENT"

ITS ASSET MANAGEMENT TOOL
TOTAL = 1 LUMP SUM

REMOVAL OF EXISTING FIBER OPTIC CABLE
TOTAL = 1 LUMP SUM

STATE OF MISSOURI
KENDRA MILLER
NUMBER PE-2014041301
PROFESSIONAL ENGINEER

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DATE PREPARED
3/28/2025

MO ROUTE	STATE
100	MO
DISTRICT	SHEET NO.
SL	232

COUNTY
ST. LOUIS

JOB NO.
J6P3274

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

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DESCRIPTION	DATE

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

GBA
16305 SWINGLEY RIDGE RD
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CHESTERFIELD, MO 63017
314.231.0100
GBAteam.com

GEORGE BUTLER
ASSOCIATES, INC.
PRO. ENGINEER 000133
ARCHITECT 000212
PRO. LAND SURVEYOR 000059

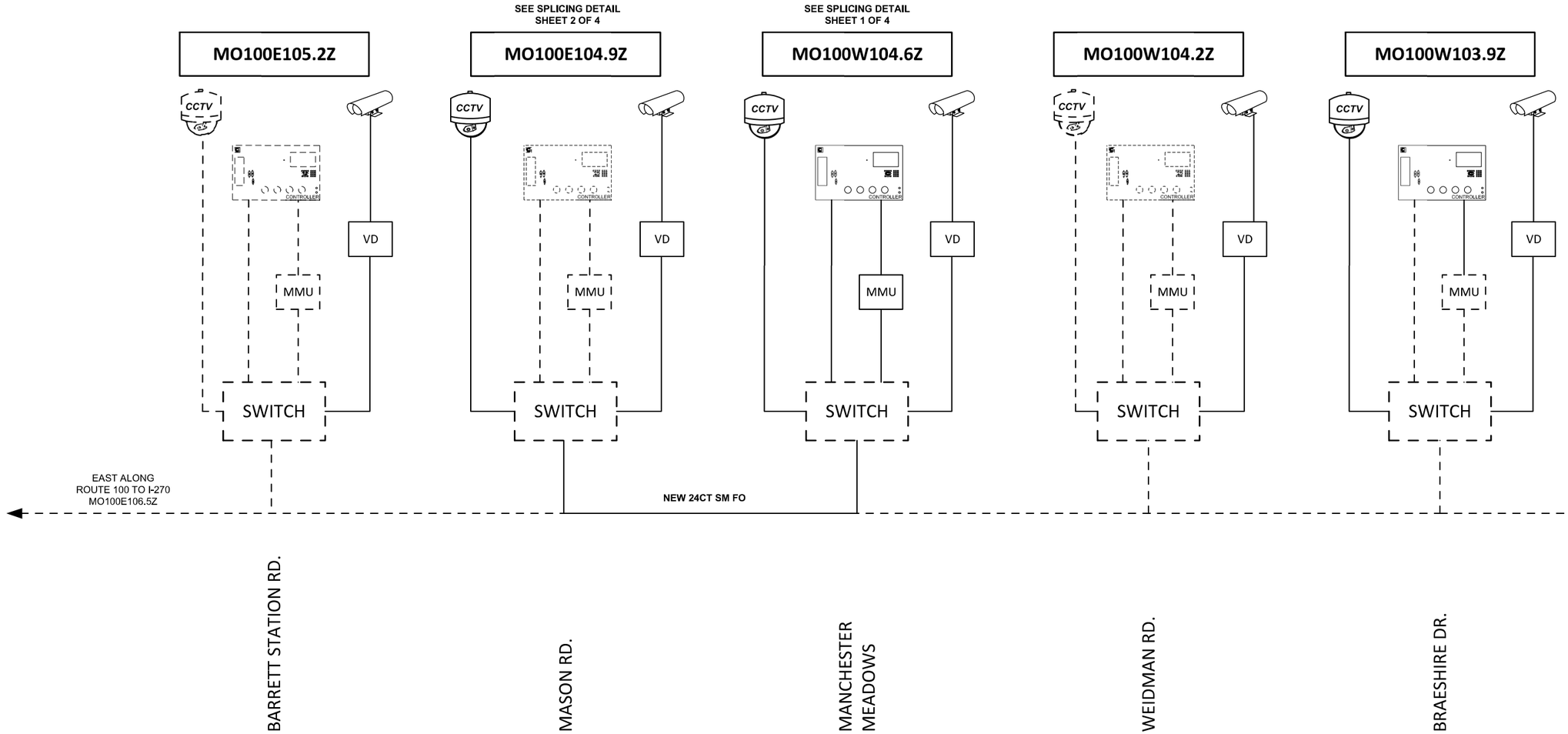
SHEET 5 OF 11

QUANTITIES

MO ROUTE 100
ITS QUANTITIES

KENDRA MILLER
PROFESSIONAL
ENGINEER
PE-2014041301

REV.



KEY

- PROPOESED CCTV CAMERA
- PROPOSED CAMERA DETECTION
- PROPOSED CONTROLLER
- EXISTING CCTV CAMERA
- EXISTING CAMERA DETECTION
- EXISTING CONTROLLER
- WIRELESS LINK
- EXISTING AIR FIBER
- AIR FIBER

CONNECTION DETAILS
ROUTE 100 (MANCHESTER RD.)
SHEET 1 OF 2

STATE OF MISSOURI
KENDRA MILLER
NUMBER PE-2014041301
PROFESSIONAL ENGINEER

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DATE PREPARED
3/28/2025

ROUTE	STATE
100	MO
DISTRICT	SHEET NO.
SL	233

COUNTY
ST. LOUIS

JOB NO.
J6P3274

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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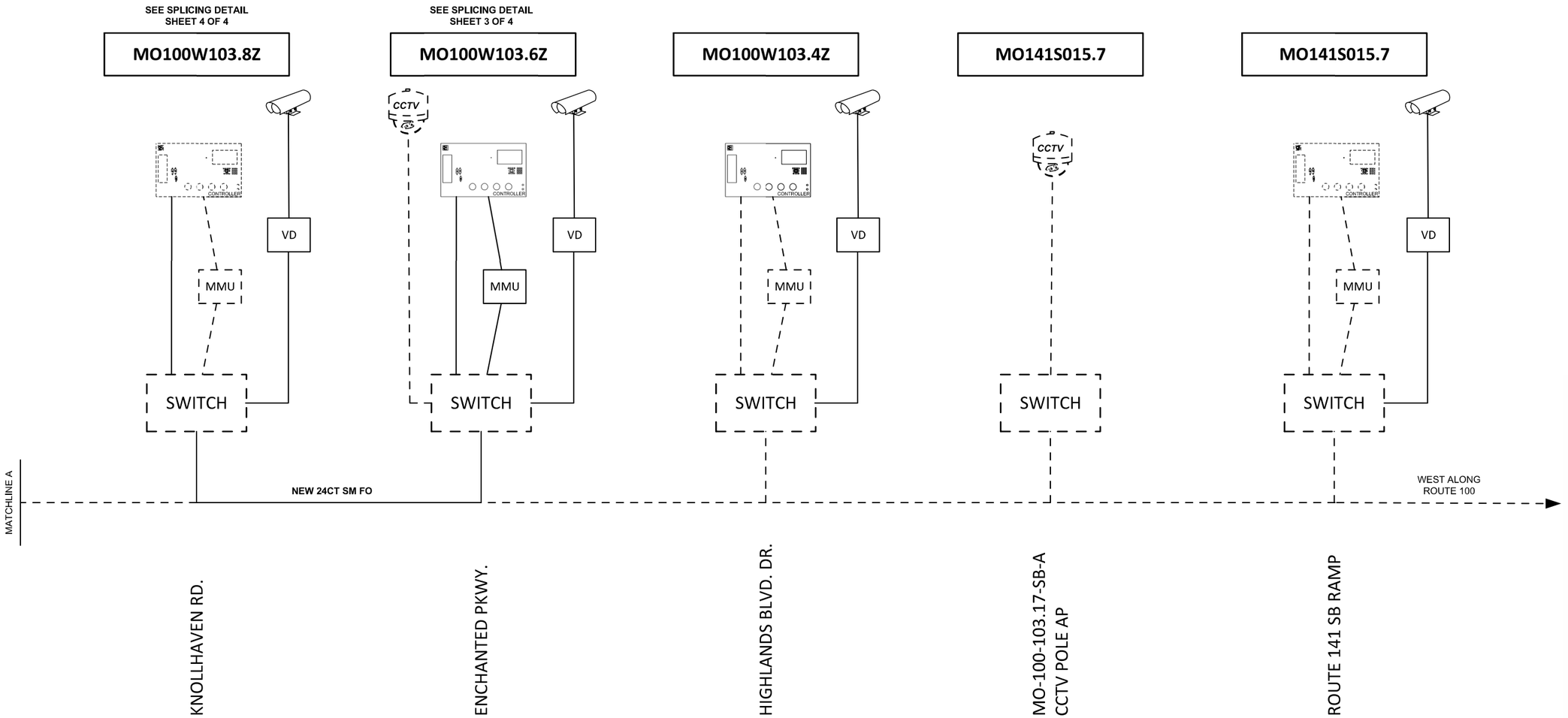
KENDRA MILLER
PROFESSIONAL
ENGINEER
PE-2014041301



KEY

- PROPOESED CCTV CAMERA
- PROPOSED CAMERA DETECTION
- PROPOSED CONTROLLER
- EXISTING CCTV CAMERA
- EXISTING CAMERA DETECTION
- EXISTING CONTROLLER
- WIRELESS LINK
- EXISTING AIR FIBER
- AIR FIBER

SHEET 7 OF 11

CONNECTION DETAILS
ROUTE 100 (MANCHESTER RD.)
SHEET 2 OF 2

STATE OF MISSOURI
KENDRA MILLER
NUMBER PE-2014041301
PROFESSIONAL ENGINEER

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

DATE PREPARED
3/28/2025

ROUTE	STATE
100	MO
DISTRICT	SHEET NO.
SL	234

COUNTY
ST. LOUIS

JOB NO.
J6P3274

CONTRACT ID.
-

PROJECT NO.

BRIDGE NO.
-

DESCRIPTION	DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
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Chesterfield, MO 63017
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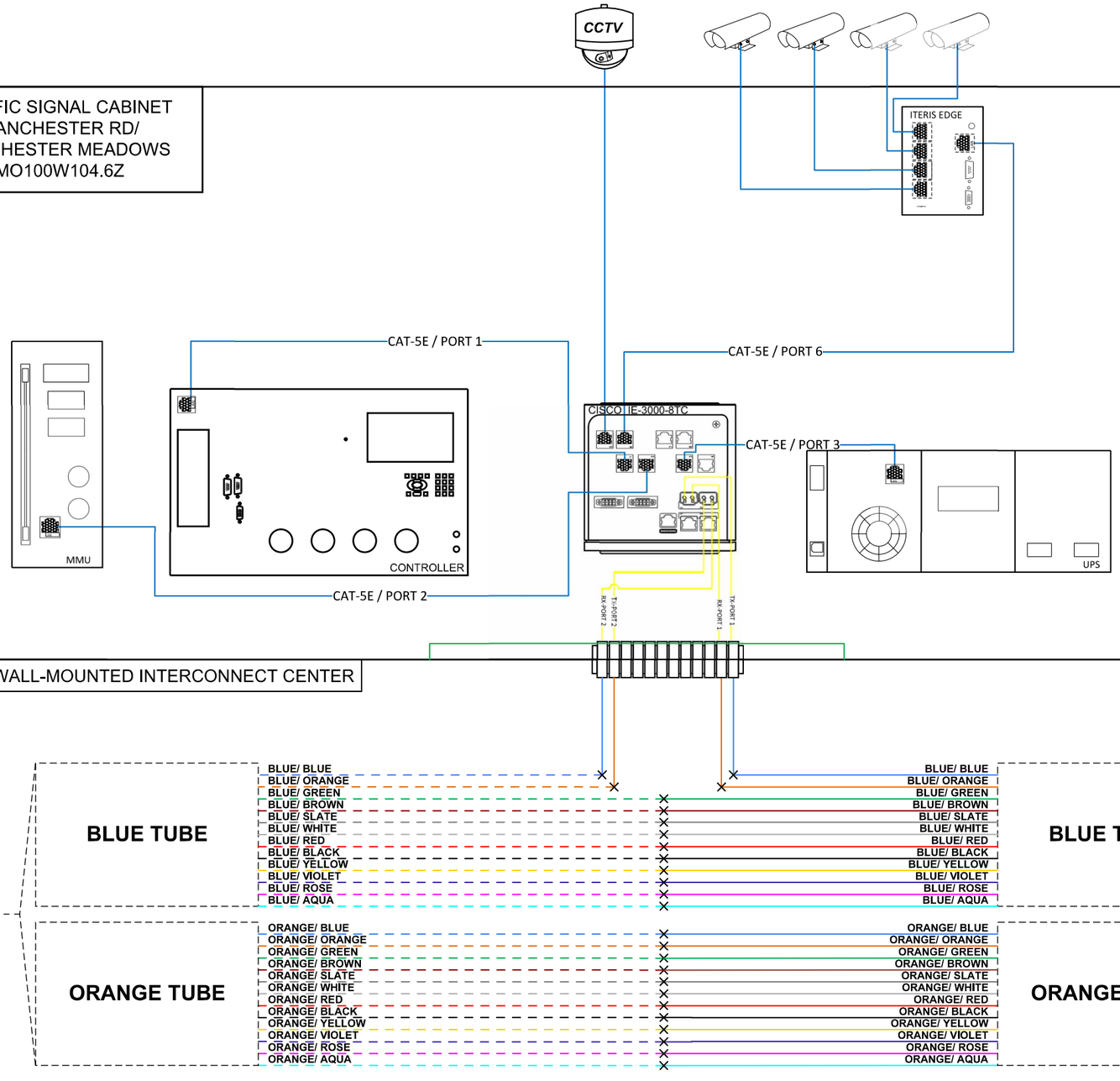
KENDRA MILLER
PROFESSIONAL ENGINEER
PE-2014041301

TRAFFIC SIGNAL CABINET
MANCHESTER RD/
MANCHESTER MEADOWS
MO100W104.6Z



KEY

- CCTV CAMERA
- EXISTING CCTV CAMERA
- DYNAMIC MESSAGE SIGN
- EXISTING DYNAMIC MESSAGE SIGN
- PATCH THROUGH FIBER OPTIC JUMPER
- EQUIPMENT CONNECTION FIBER OPTIC JUMPER
- FIBER OPTIC PIGTAIL
- BARE FIBER LEFT COILED IN SPLICE TRAY
- FUSION SPLICE
- PATCH PANEL MODULE
- WIRELESS LINK
- SENSYS DETECTION SYSTEM

1. MAXIMUM SPLICE LOSS SHALL BE 0.1 dB
2. NO INTERMEDIATE SPLICES ALLOWED
3. ALL SPLICES SHALL BE FUSION SPLICES
4. DASHED LINES INDICATE EXISTING EQUIPMENT OR CABLING.

STATE OF MISSOURI
KENDRA MILLER
NUMBER PE-2014041301
PROFESSIONAL ENGINEER
THIS SHEET HAS BEEN SIGNED, SEALED, AND DATED ELECTRONICALLY.

DATE PREPARED	3/28/2025
ROUTE	100
STATE	MO
DISTRICT	SL
SHEET NO.	235
COUNTY	ST. LOUIS
JOB NO.	J6P3274
CONTRACT ID.	-
PROJECT NO.	-
BRIDGE NO.	-

DESCRIPTION | DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
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Chesterfield, MO 63017
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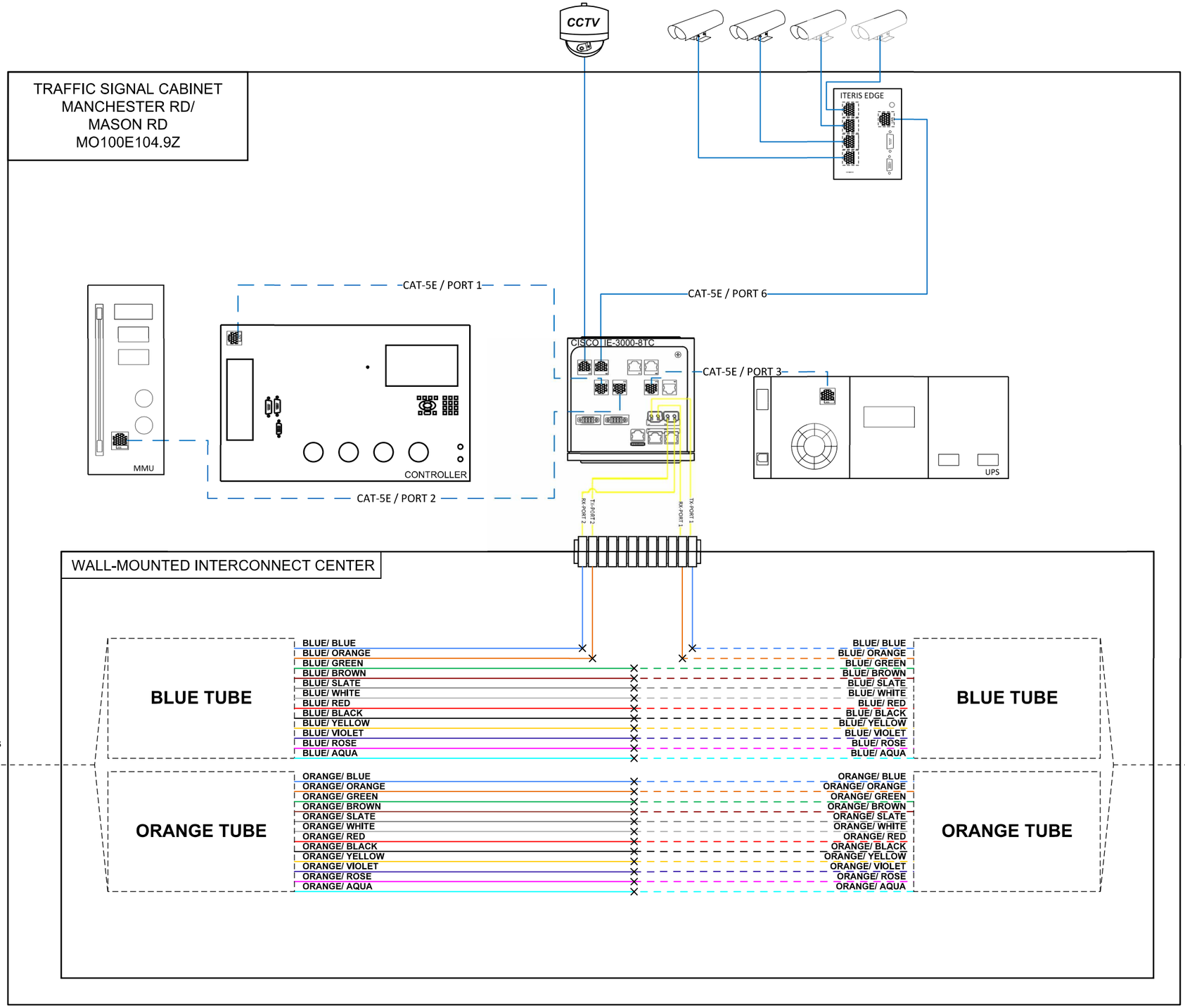
SPLICING/TERMINATION DETAILS
SHEET 1 OF 4

KENDRA MILLER
PROFESSIONAL ENGINEER
PE-2014041301

TRAFFIC SIGNAL CABINET
MANCHESTER RD/
MASON RD
MO100E104.9Z



KEY

- CCTV CAMERA
- EXISTING CCTV CAMERA
- DYNAMIC MESSAGE SIGN
- EXISTING DYNAMIC MESSAGE SIGN
- PATCH THROUGH FIBER OPTIC JUMPER
- EQUIPMENT CONNECTION FIBER OPTIC JUMPER
- FIBER OPTIC PIGTAIL
- BARE FIBER LEFT COILED IN SPLICE TRAY
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3. ALL SPLICES SHALL BE FUSION SPLICES
4. DASHED LINES INDICATE EXISTING EQUIPMENT OR CABLING.

SPLICING/TERMINATION DETAILS
SHEET 2 OF 4

STATE OF MISSOURI
KENDRA MILLER
NUMBER PE-2014041301
PROFESSIONAL ENGINEER
THIS SHEET HAS BEEN SIGNED, SEALED, AND DATED ELECTRONICALLY.

DATE PREPARED 3/28/2025

ROUTE	STATE
100	MO
DISTRICT	SHEET NO.
SL	236

COUNTY ST. LOUIS
JOB NO. J6P3274
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
GBA
16305 Swingley Ridge Rd
Ste. 300
Chesterfield, MO 63017
314.231.0100
GBAteam.com
KENDRA MILLER
PROFESSIONAL ENGINEER
PE-2014041301

TRAFFIC SIGNAL CABINET
ENCHANTED PARKWAY
MO100W103.6Z

CCTV

ITERIS EDGE

CAT-5E / PORT 1

CAT-5E / PORT 6

CAT-5E / PORT 3

CAT-5E / PORT 2

MMU

CONTROLLER

CISCO IE-3000-8TC

UPS

TX-PORT 2
RX-PORT 2
TX-PORT 1
RX-PORT 1

WALL-MOUNTED INTERCONNECT CENTER

EXIST. 24 SM FIBER OPTIC CABLE WEST TO HIGHLANDS BLVD. DR. MO100W103.4Z

BLUE TUBE		
BLUE/ BLUE		BLUE/ BLUE
BLUE/ ORANGE		BLUE/ ORANGE
BLUE/ GREEN		BLUE/ GREEN
BLUE/ BROWN		BLUE/ BROWN
BLUE/ SLATE		BLUE/ SLATE
BLUE/ WHITE		BLUE/ WHITE
BLUE/ RED		BLUE/ RED
BLUE/ BLACK		BLUE/ BLACK
BLUE/ YELLOW		BLUE/ YELLOW
BLUE/ VIOLET		BLUE/ VIOLET
BLUE/ ROSE		BLUE/ ROSE
BLUE/ AQUA		BLUE/ AQUA

ORANGE TUBE		
ORANGE/ BLUE		ORANGE/ BLUE
ORANGE/ ORANGE		ORANGE/ ORANGE
ORANGE/ GREEN		ORANGE/ GREEN
ORANGE/ BROWN		ORANGE/ BROWN
ORANGE/ SLATE		ORANGE/ SLATE
ORANGE/ WHITE		ORANGE/ WHITE
ORANGE/ RED		ORANGE/ RED
ORANGE/ BLACK		ORANGE/ BLACK
ORANGE/ YELLOW		ORANGE/ YELLOW
ORANGE/ VIOLET		ORANGE/ VIOLET
ORANGE/ ROSE		ORANGE/ ROSE
ORANGE/ AQUA		ORANGE/ AQUA

EXIST 24 SM FIBER OPTIC CABLE EAST TO KNOLLHAVEN RD. MO100W103.8Z

KEY

- CCTV CAMERA
- EXISTING CCTV CAMERA
- DMS — DYNAMIC MESSAGE SIGN
- DMS — EXISTING DYNAMIC MESSAGE SIGN
- PATCH THROUGH FIBER OPTIC JUMPER
- EQUIPMENT CONNECTION FIBER OPTIC JUMPER
- FIBER OPTIC PIGTAIL
- BARE FIBER LEFT COILED IN SPLICE TRAY
- FUSION SPLICE
- PATCH PANEL MODULE
- WIRELESS LINK
- VDS AP — SENSYS DETECTION SYSTEM

1. MAXIMUM SPLICE LOSS SHALL BE 0.1 dB
2. NO INTERMEDIATE SPLICES ALLOWED
3. ALL SPLICES SHALL BE FUSION SPLICES
4. DASHED LINES INDICATE EXISTING EQUIPMENT OR CABLING.

STATE OF MISSOURI
KENDRA MILLER
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PROFESSIONAL ENGINEER

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ROUTE	STATE
100	MO
DISTRICT	SHEET NO.
SL	237

COUNTY: ST. LOUIS

JOB NO.: J6P3274

CONTRACT ID.: -

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BRIDGE NO.: -

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MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
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SPLICING/TERMINATION DETAILS
SHEET 3 OF 4

KENDRA MILLER
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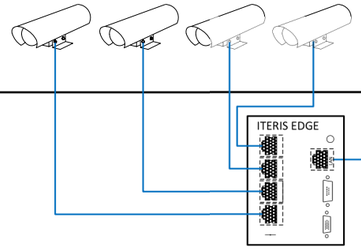
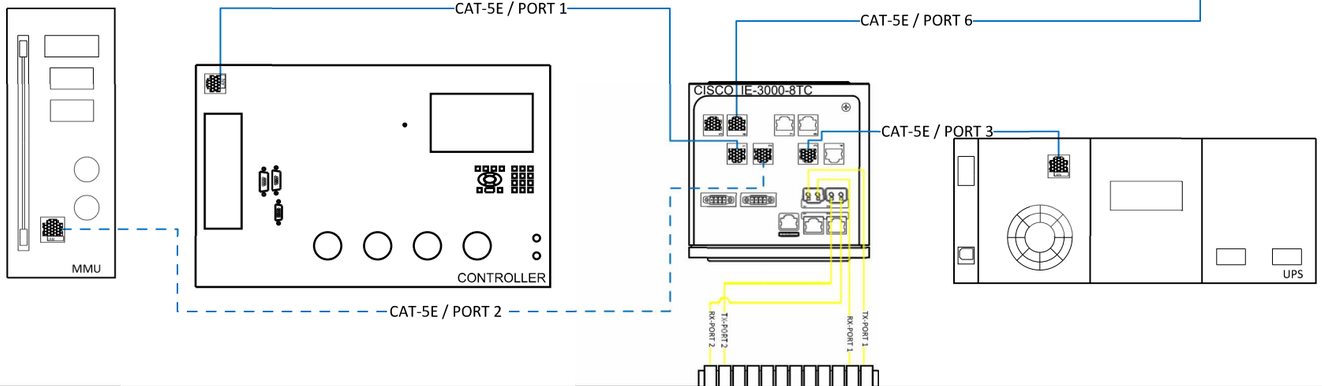
PE-2014041301

TRAFFIC SIGNAL CABINET
KNOLLHAVEN RD
MO100W103.8Z





WALL-MOUNTED INTERCONNECT CENTER

BLUE TUBE	BLUE/ BLUE	BLUE/ BLUE
	BLUE/ ORANGE	BLUE/ ORANGE
	BLUE/ GREEN	BLUE/ GREEN
	BLUE/ BROWN	BLUE/ BROWN
	BLUE/ SLATE	BLUE/ SLATE
	BLUE/ WHITE	BLUE/ WHITE
	BLUE/ RED	BLUE/ RED
	BLUE/ BLACK	BLUE/ BLACK
	BLUE/ YELLOW	BLUE/ YELLOW
	BLUE/ VIOLET	BLUE/ VIOLET
	BLUE/ ROSE	BLUE/ ROSE
	BLUE/ AQUA	BLUE/ AQUA
ORANGE TUBE	ORANGE/ BLUE	ORANGE/ BLUE
	ORANGE/ ORANGE	ORANGE/ ORANGE
	ORANGE/ GREEN	ORANGE/ GREEN
	ORANGE/ BROWN	ORANGE/ BROWN
	ORANGE/ SLATE	ORANGE/ SLATE
	ORANGE/ WHITE	ORANGE/ WHITE
	ORANGE/ RED	ORANGE/ RED
	ORANGE/ BLACK	ORANGE/ BLACK
	ORANGE/ YELLOW	ORANGE/ YELLOW
	ORANGE/ VIOLET	ORANGE/ VIOLET
	ORANGE/ ROSE	ORANGE/ ROSE
	ORANGE/ AQUA	ORANGE/ AQUA

EXIST. 24 SM FIBER OPTIC CABLE WEST TO ENCHANTED PKWY. MO100W103.6Z

EXIST 24 SM FIBER OPTIC CABLE EAST TO BRAESHIRE DR. MO100W103.9Z

KEY

- CCTV CAMERA
- EXISTING CCTV CAMERA
- DYNAMIC MESSAGE SIGN
- EXISTING DYNAMIC MESSAGE SIGN
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SPLICING/TERMINATION DETAILS
SHEET 4 OF 4

STATE OF MISSOURI
KENDRA MILLER
NUMBER PE-2014041301
PROFESSIONAL ENGINEER

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SL	238

COUNTY: ST. LOUIS
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MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
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16305 Swingley Ridge Rd
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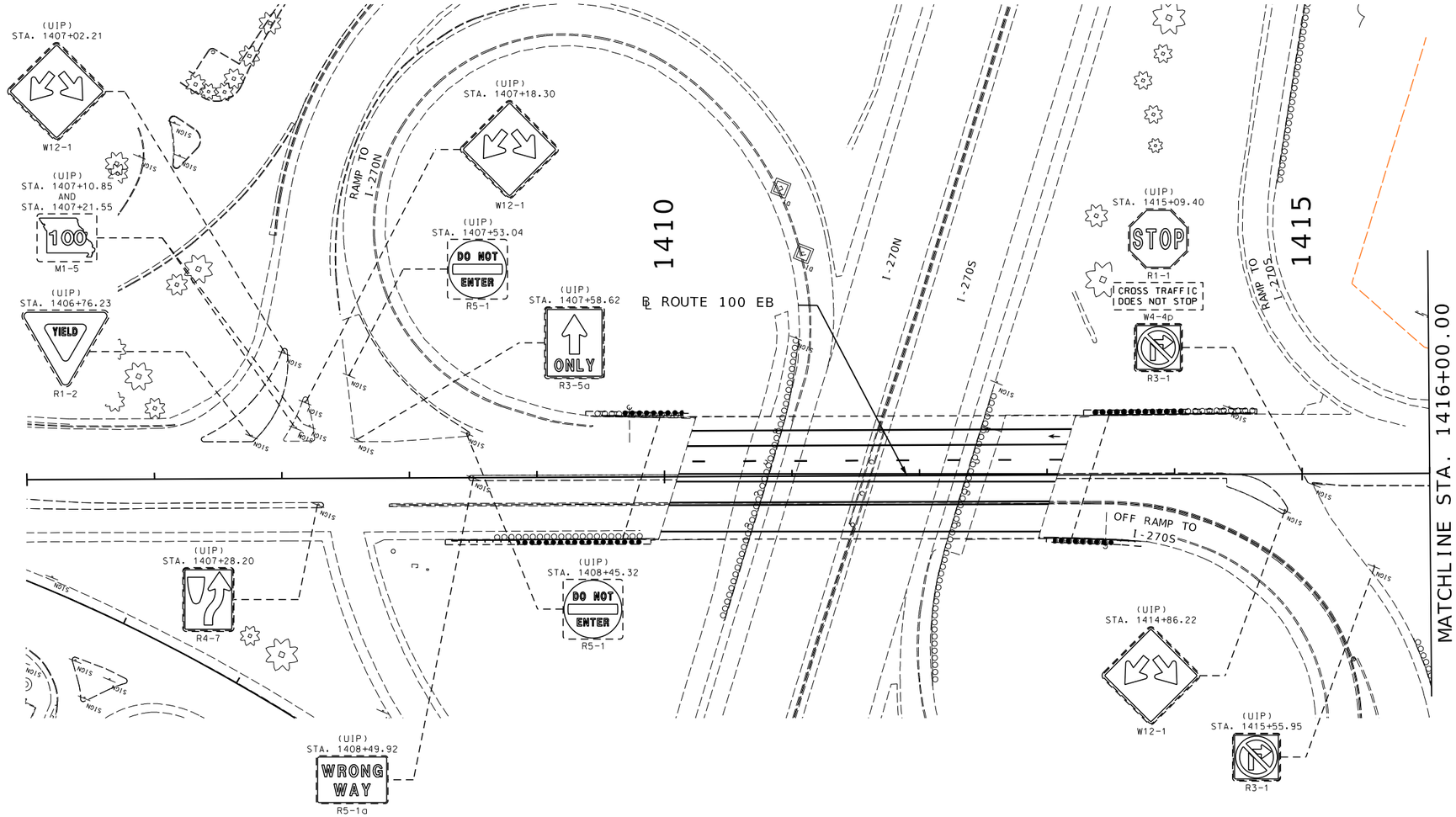
GBAteam.com

KENDRA MILLER
PROFESSIONAL ENGINEER
PE-2014041301

SCALE

0 50 100 150



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STATE OF MISSOURI
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MO ROUTE	STATE
100	MO
DISTRICT	SHEET NO.
SL	239

COUNTY
ST. LOUIS

JOB NO.
J6P3274

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DATE	DESCRIPTION

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

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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JEFFERSON CITY, MO 65102
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PRO. ENGINEER 000133
ARCHITECT 000212
PRO. LAND SURVEYOR 000059

SHEET 1 OF 26

SIGNING SHEET

MO ROUTE 100
MANCHESTER ROAD

KENDRA MILLER
PROFESSIONAL ENGINEER
PE-2014041301

REV.

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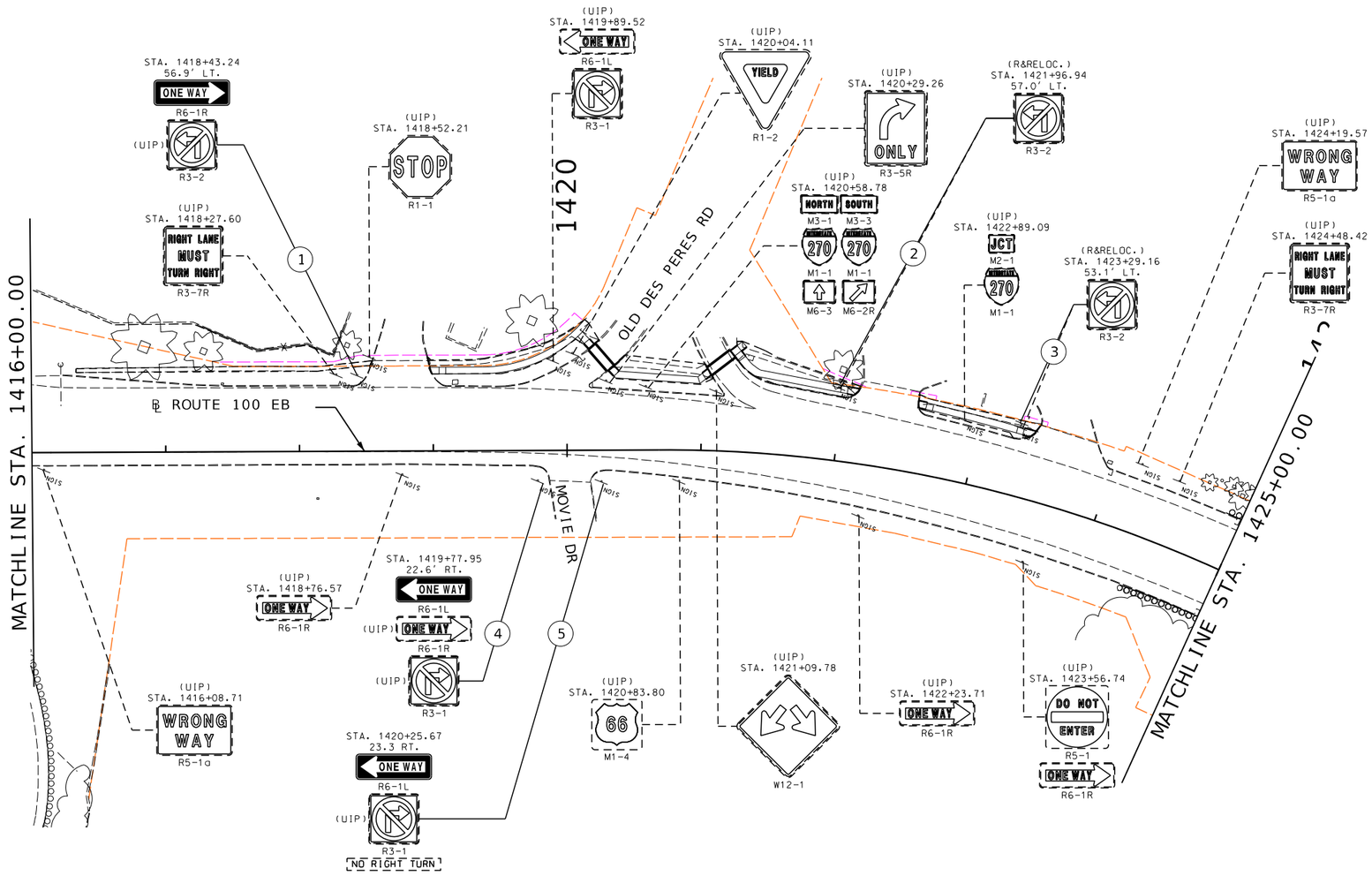

SHEET 2 OF 26

SIGNING SHEET

MO ROUTE 100
MANCHESTER ROAD

STATE OF MISSOURI
KENDRA MILLER
NUMBER PE-2014041301
PROFESSIONAL ENGINEER

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DATE PREPARED 3/28/2025

MO ROUTE	STATE
100	MO
DISTRICT	SHEET NO.
SL	240

COUNTY ST. LOUIS

JOB NO. J6P3274

CONTRACT ID.

PROJECT NO.

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

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
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PRO. LAND SURVEYOR 000059

KENDRA MILLER
PROFESSIONAL ENGINEER
PE-2014041301

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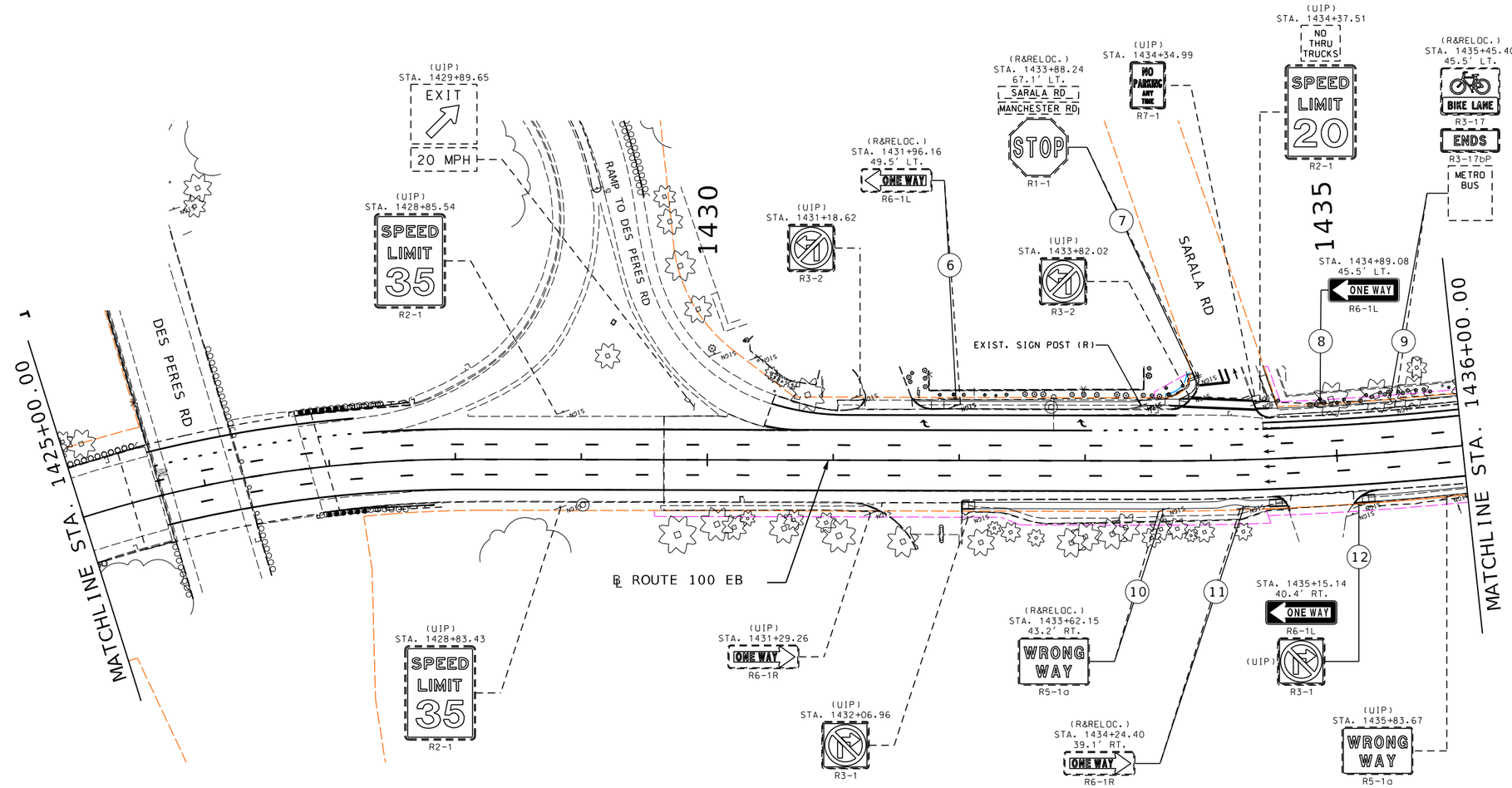

SHEET 3 OF 26

SIGNING SHEET

MO ROUTE 100
MANCHESTER ROAD

KENDRA MILLER
PROFESSIONAL ENGINEER
PE-2014041301

REV. | DATE | DESCRIPTION

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

STATE OF MISSOURI
KENDRA MILLER
NUMBER PE-2014041301
PROFESSIONAL ENGINEER

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DATE PREPARED
3/28/2025

MO ROUTE	STATE
100	MO
DISTRICT	SHEET NO.
SL	241

COUNTY
ST. LOUIS

JOB NO.
J6P3274

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

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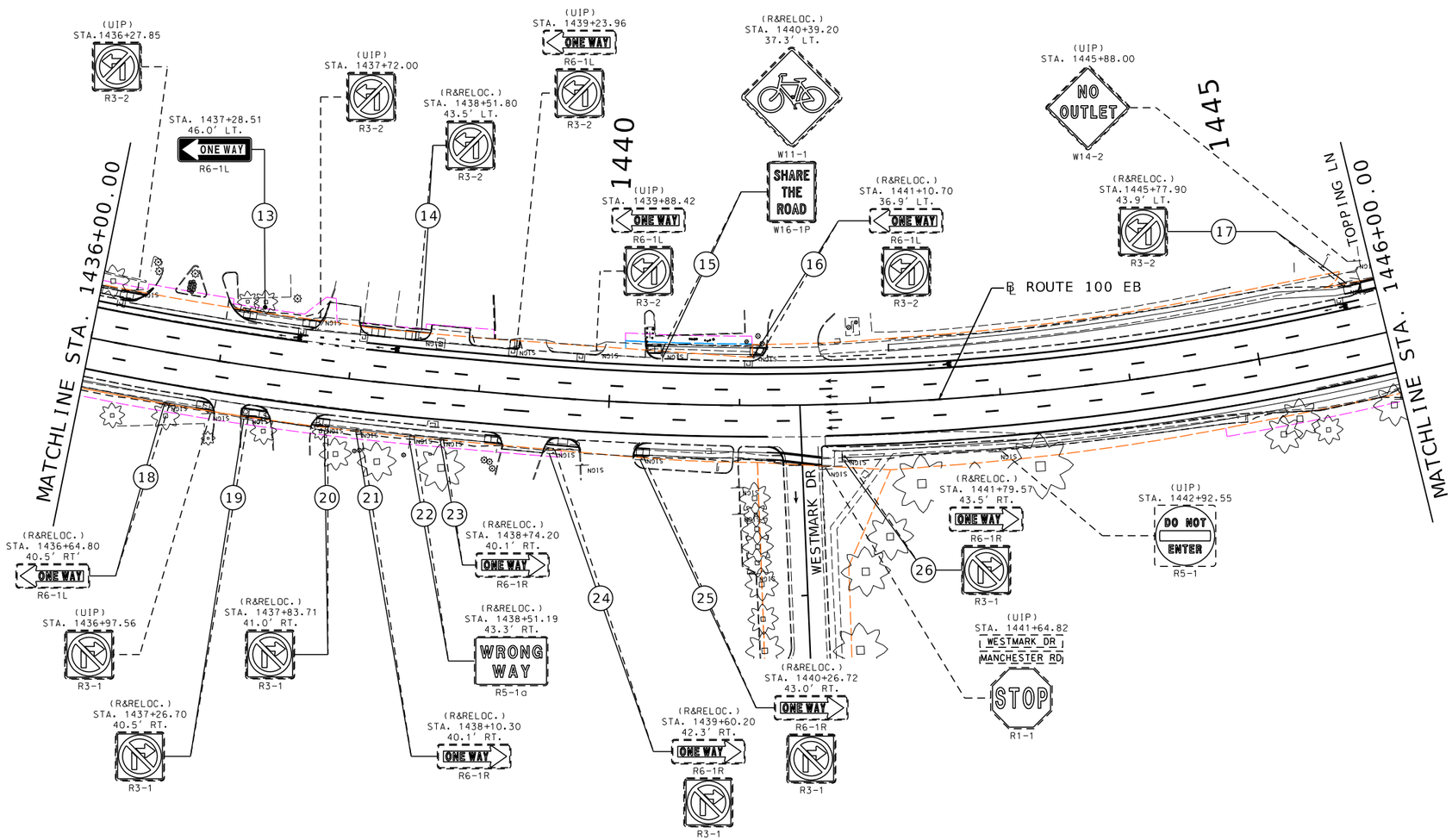

SHEET 4 OF 26

SIGNING SHEET

MO ROUTE 100
MANCHESTER ROAD

KENDRA MILLER
PROFESSIONAL ENGINEER
PE-2014041301

REV.

STATE OF MISSOURI
KENDRA MILLER
NUMBER PE-2014041301
PROFESSIONAL ENGINEER

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

DATE PREPARED
3/28/2025

MO ROUTE	STATE
100	MO
DISTRICT	SHEET NO.
SL	242

COUNTY
ST. LOUIS

JOB NO.
J6P3274

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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PRO. ENGINEER 000133
ARCHITECT 000212
PRO. LAND SURVEYOR 000059

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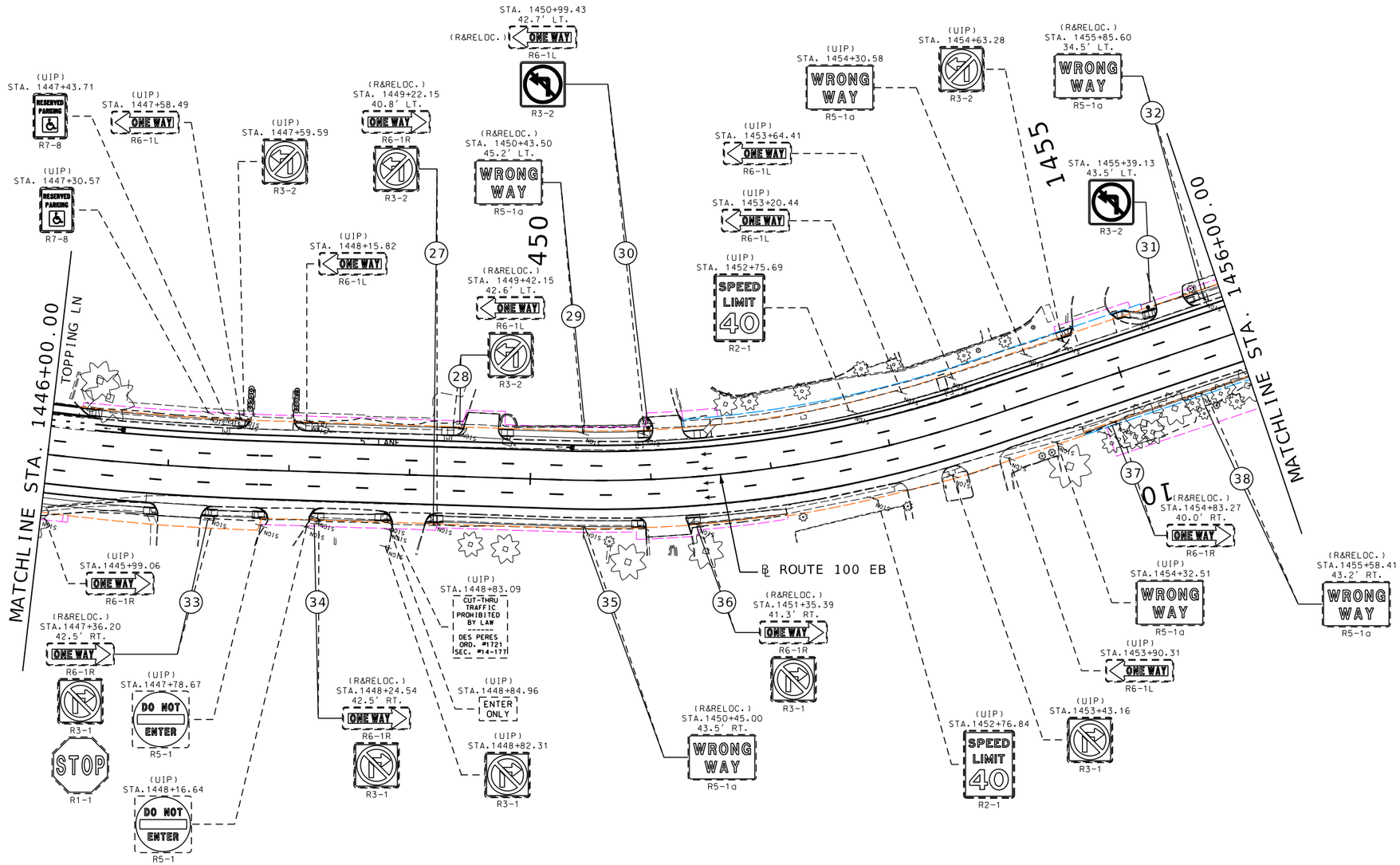

SHEET 5 OF 26

SIGNING SHEET

MO ROUTE 100
MANCHESTER ROAD

KENDRA MILLER
PROFESSIONAL ENGINEER
PE-2014041301

REV.

STATE OF MISSOURI
KENDRA MILLER
NUMBER PE-2014041301
PROFESSIONAL ENGINEER

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

DATE PREPARED	
3/28/2025	
MO ROUTE	STATE
100	MO
DISTRICT	SHEET NO.
SL	243
COUNTY	
ST. LOUIS	
JOB NO.	
J6P3274	
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	

DATE	DESCRIPTION

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MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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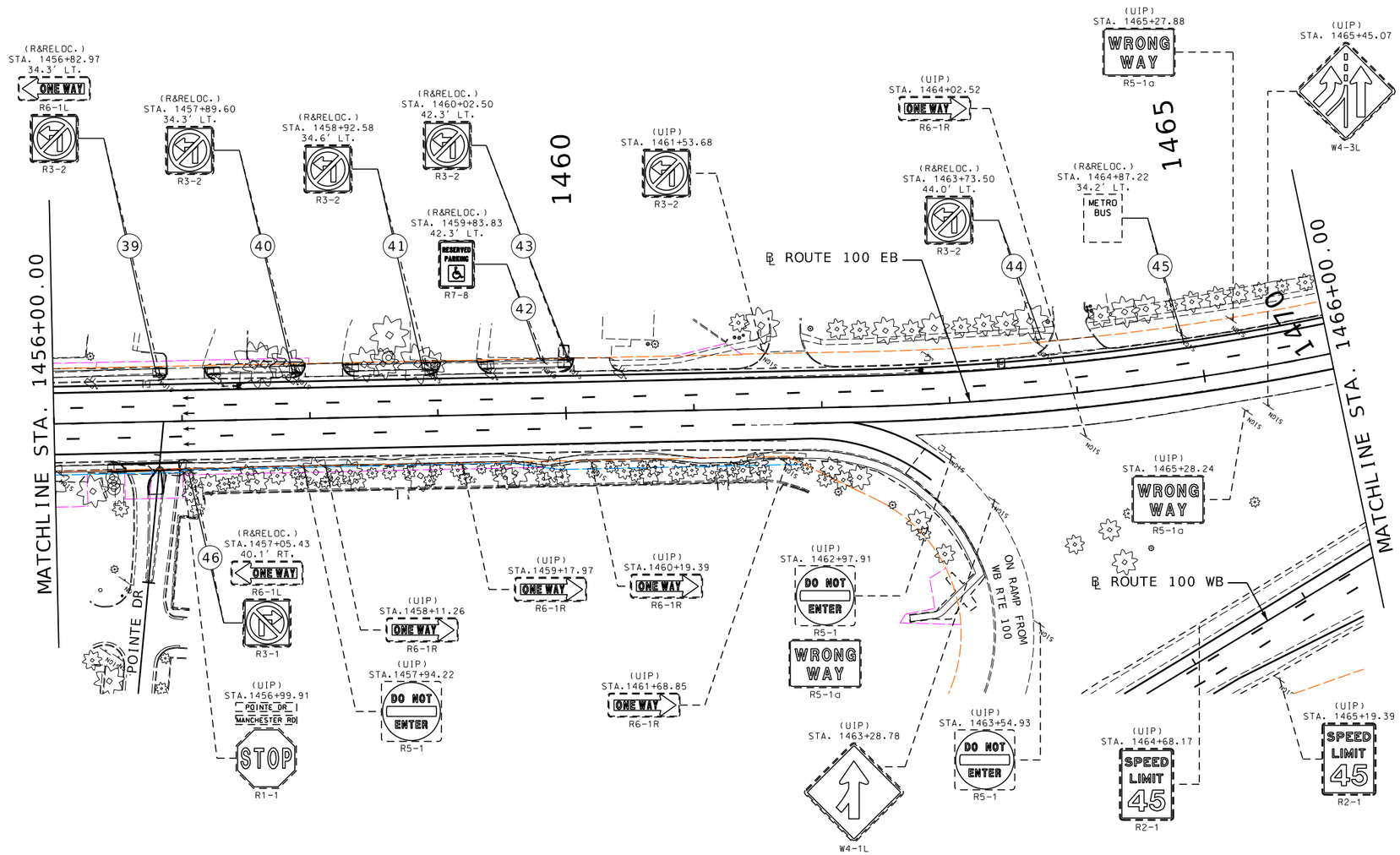

SHEET 6 OF 26

SIGNING SHEET

MO ROUTE 100
MANCHESTER ROAD

STATE OF MISSOURI
KENDRA MILLER
NUMBER PE-2014041301
PROFESSIONAL ENGINEER

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DATE PREPARED	3/28/2025
MO ROUTE	100
STATE	MO
DISTRICT	SL
SHEET NO.	244
COUNTY	ST. LOUIS
JOB NO.	J6P3274
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	

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105 WEST CAPITOL
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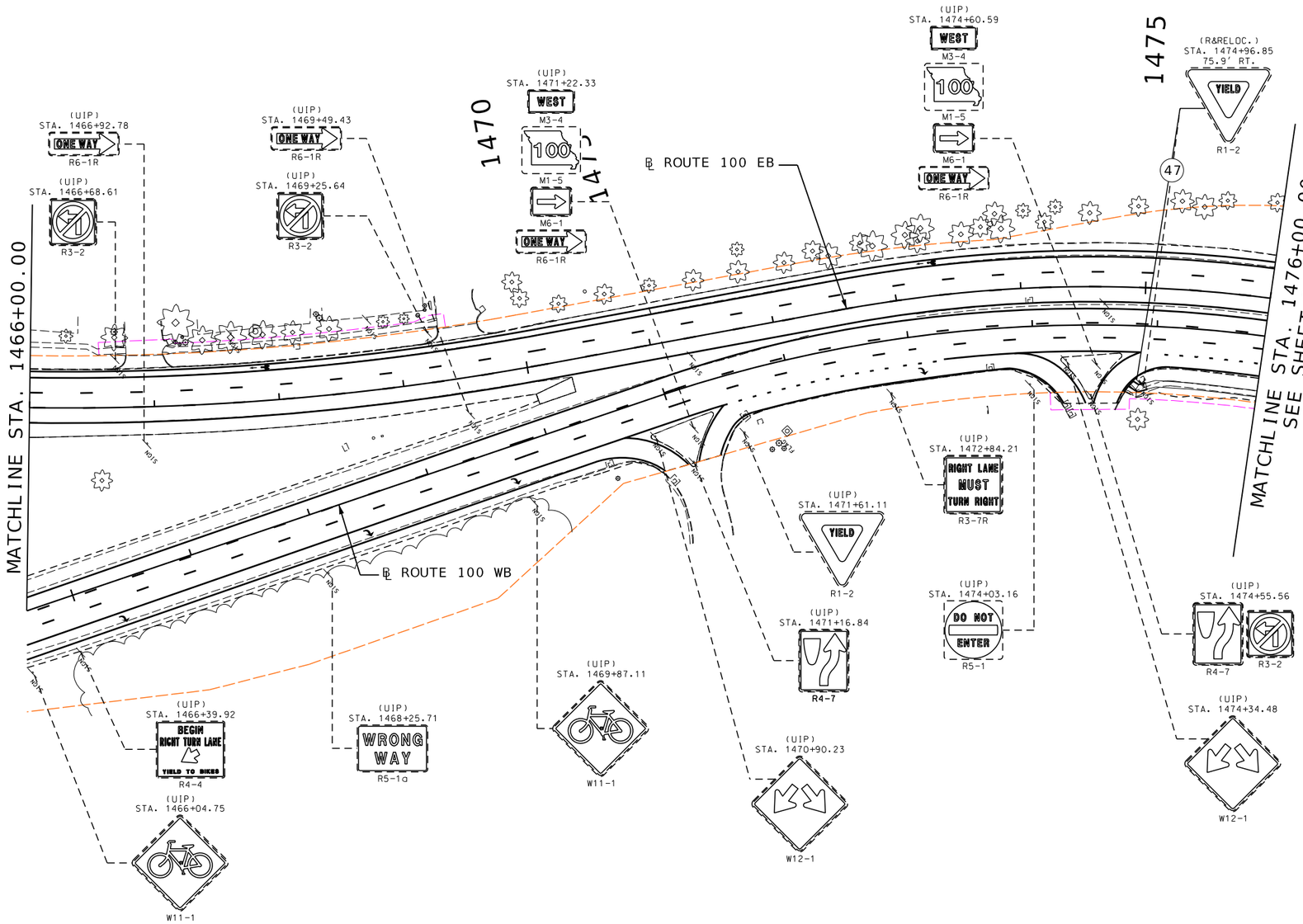

SHEET 7 OF 26

SIGNING SHEET

MO ROUTE 100
MANCHESTER ROAD

STATE OF MISSOURI
KENDRA MILLER
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MO ROUTE	STATE
100	MO
DISTRICT	SHEET NO.
SL	245

COUNTY: ST. LOUIS
JOB NO.: J6P3274
CONTRACT ID.:
PROJECT NO.:
BRIDGE NO.:

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MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
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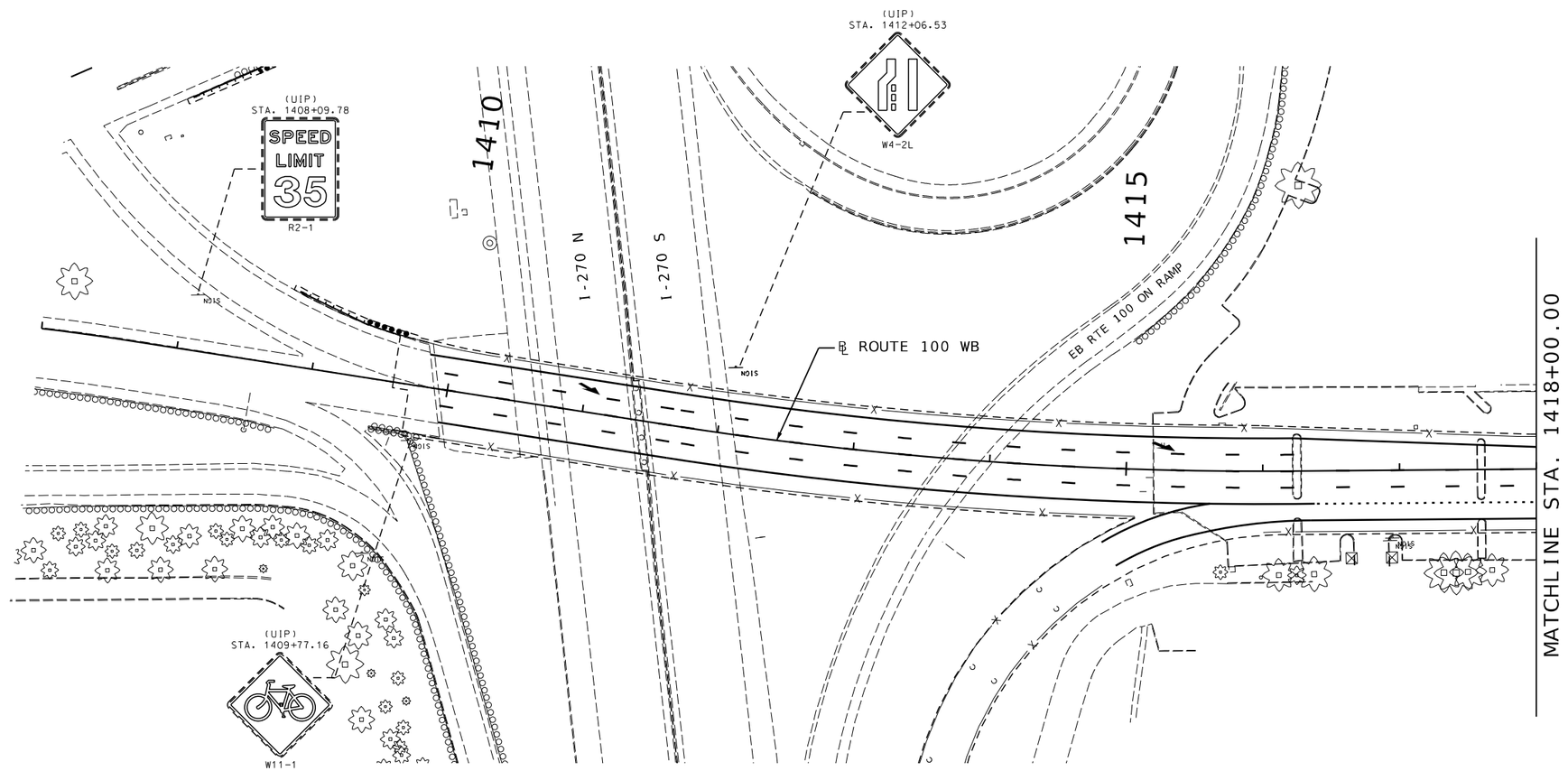

SHEET 8 OF 26

SIGNING SHEET

MO ROUTE 100
MANCHESTER ROAD

KENDRA MILLER
PROFESSIONAL ENGINEER
PE-2014041301

STATE OF MISSOURI
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DATE PREPARED	
3/28/2025	
MO ROUTE	STATE
100	MO
DISTRICT	SHEET NO.
SL	246
COUNTY	
ST. LOUIS	
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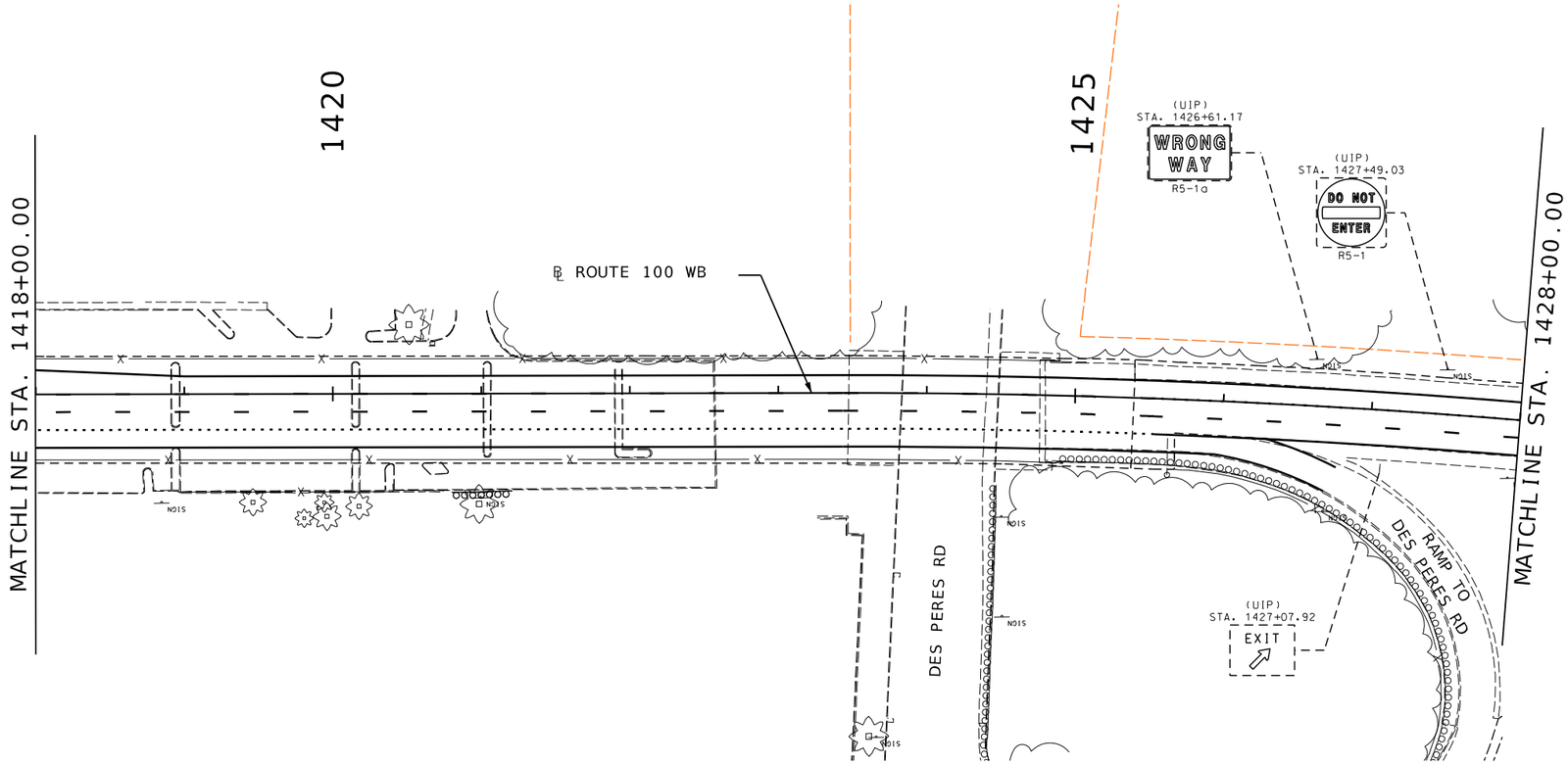

SHEET 9 OF 26

SIGNING SHEET

MO ROUTE 100
MANCHESTER ROAD

KENDRA MILLER
PROFESSIONAL ENGINEER
PE-2014041301

STATE OF MISSOURI
KENDRA MILLER
NUMBER PE-2014041301
PROFESSIONAL ENGINEER

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

DATE PREPARED: 3/28/2025

MO ROUTE	STATE
100	MO
DISTRICT	SHEET NO.
SL	247

COUNTY: ST. LOUIS

JOB NO.: J6P3274

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)

GBA

16305 SWINGLEY RIDGE RD
ST. 300
CHESTERFIELD, MO 63017
314.231.0100
GBAteam.com

GEORGE BUTLER ASSOCIATES, INC.
PRO. ENGINEER 000133
ARCHITECT 000212
PRO. LAND SURVEYOR 000059

REV.

SCALE

0 50 100 150

STA. 1428+53.33
34.0' LT.

Westmark Dr
NEXT LEFT
Manchester Rd
EAST
3/4 MILE
LEFT LANE ONLY
D3-2

127

(UIP)
STA. 1429+05.12
W4-1R

(UIP)
STA. 1431+27.85
W2-4
WESTMARK DR

1430

(UIP)
STA. 1430+42.72
SPEED LIMIT 45
R2-1

(UIP)
STA. 1434+23.40
WRONG WAY
R5-1a

(UIP)
STA. 1435+51.42
WESTMARK DR
MANCHESTER RD
ONE WAY
R6-1R

STOP
R1-1

R3-1

1435

(UIP)
STA. 1435+05.49
DO NOT ENTER
R5-1

(UIP)
STA. 1437+46.11
← THE MILLER GROUP
RED ROBIN ↑

WESTMARK DR

MATCHLINE STA. 1428+00.00

RAMP FROM DES PERES RD

℄ ROUTE 100 WB

(UIP)
STA. 1431+36.96
RIGHT LANE MUST TURN RIGHT
R3-7R

(UIP)
STA. 1430+45.01
SPEED LIMIT 45
R2-1

(UIP)
STA. 1429+16.28
W4-1R

(UIP)
STA. 1435+73.17
ONE WAY
R6-1L

MATCHLINE STA. 1438+00.00

NO1S

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STATE OF MISSOURI
KENDRA MILLER
NUMBER PE-2014041301
PROFESSIONAL ENGINEER

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

DATE PREPARED
3/28/2025

MO ROUTE	STATE
100	MO
DISTRICT	SHEET NO.
SL	248

COUNTY
ST. LOUIS

JOB NO.
J6P3274

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)

GBA
16305 SWINGLEY RIDGE RD
ST. 300
CHESTERFIELD, MO 63017
314.231.0100
GBAteam.com

GEORGE BUTLER ASSOCIATES, INC.
PRO. ENGINEER 000133
ARCHITECT 000212
PRO. LAND SURVEYOR 000059

SHEET 10 OF 26

SIGNING SHEET

MO ROUTE 100
MANCHESTER ROAD

KENDRA MILLER
PROFESSIONAL ENGINEER
PE-2014041301

XXMSD-XXXXX, BASEMAPS 25-26N, 25M, 24-25K, 23-24J

c:\bms\gba-pw-01\regan hutchinson\dms05308\248_SN_10_J6P3274_i50_WB100.dgn

3/28/2025

SCALE

0 50 100 150

DISCLAIMER
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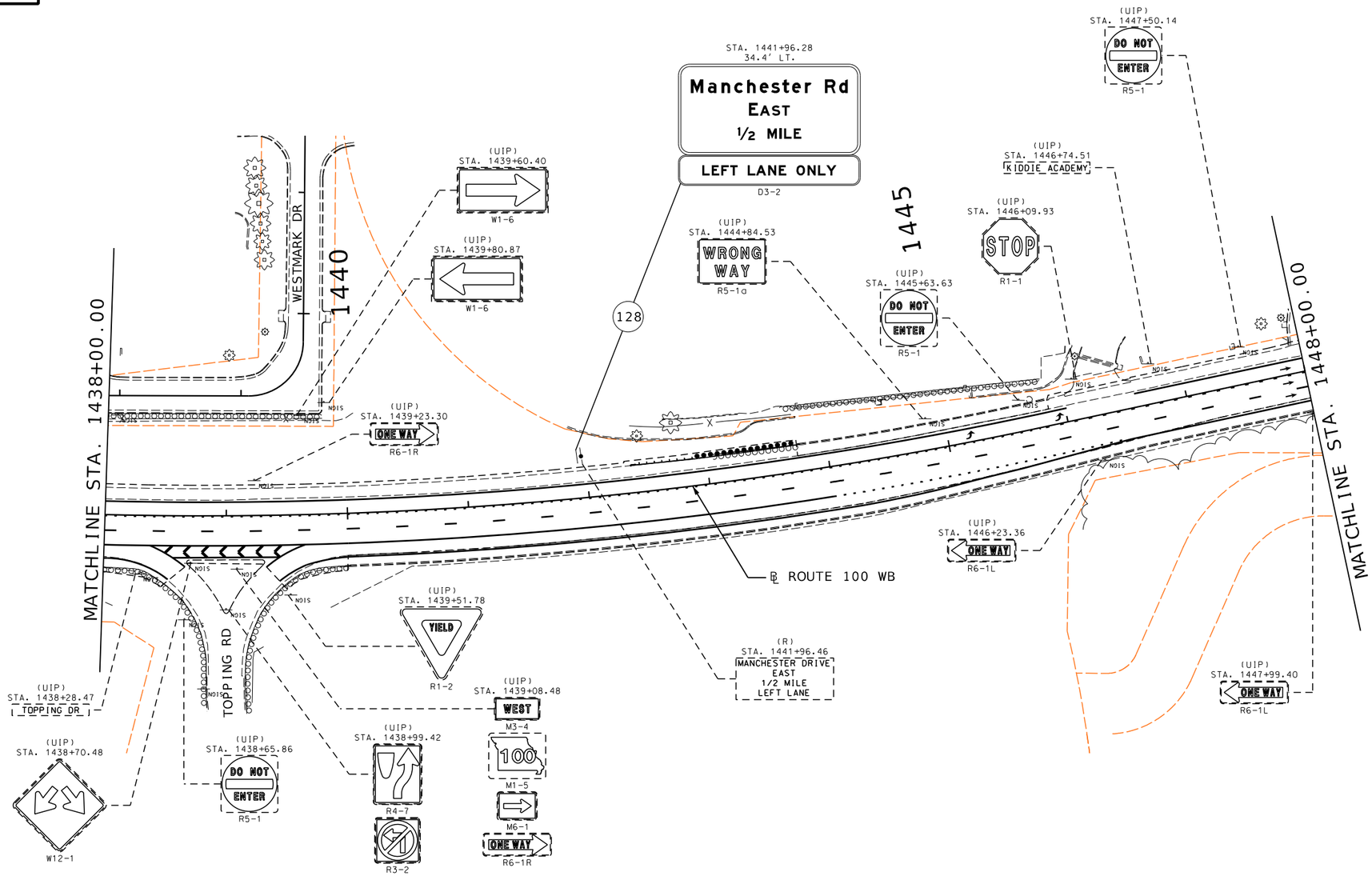

SHEET 11 OF 26

SIGNING SHEET

MO ROUTE 100
MANCHESTER ROAD

KENDRA MILLER
PROFESSIONAL ENGINEER
PE-2014041301

REV. | DESCRIPTION | DATE

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

STATE OF MISSOURI
KENDRA MILLER
NUMBER PE-2014041301
PROFESSIONAL ENGINEER

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

DATE PREPARED
3/28/2025

MO ROUTE	STATE
100	MO
DISTRICT	SHEET NO.
SL	249

COUNTY
ST. LOUIS

JOB NO.
J6P3274

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
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ARCHITECT 000212
PRO. LAND SURVEYOR 000059

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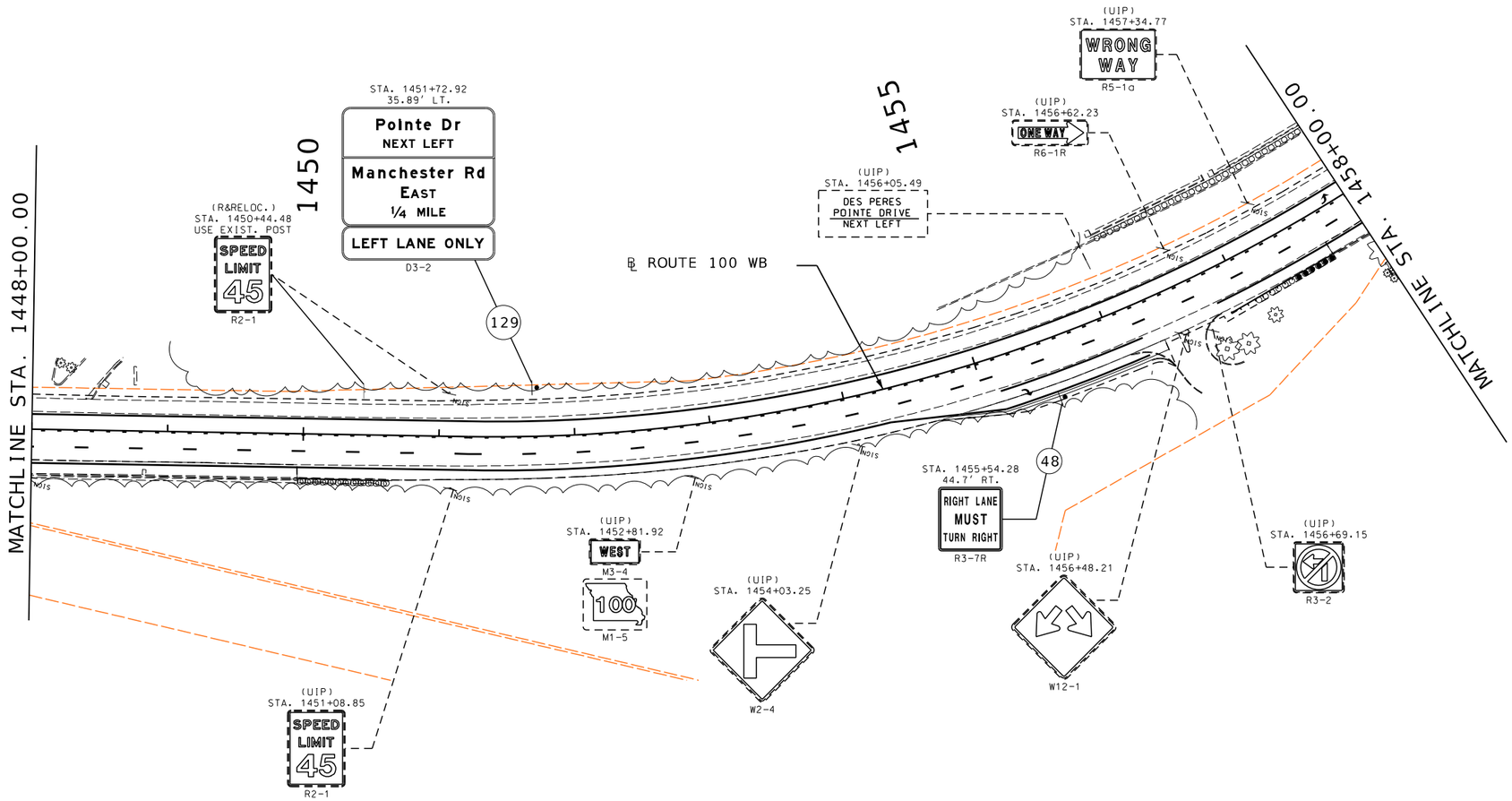

SHEET 12 OF 26

SIGNING SHEET

MO ROUTE 100
MANCHESTER ROAD

KENDRA MILLER
PROFESSIONAL ENGINEER
PE-2014041301

REV.

STATE OF MISSOURI
KENDRA MILLER
NUMBER PE-2014041301
PROFESSIONAL ENGINEER

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

DATE PREPARED	
3/28/2025	
MO ROUTE	STATE
100	MO
DISTRICT	SHEET NO.
SL	250
COUNTY	
ST. LOUIS	
JOB NO.	
J6P3274	
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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ST. 300
CHESTERFIELD, MO 63017
314.231.0100
GBAteam.com

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ASSOCIATES, INC.
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ARCHITECT 000212
PRO. LAND SURVEYOR 000059

SCALE

0 50 100 150

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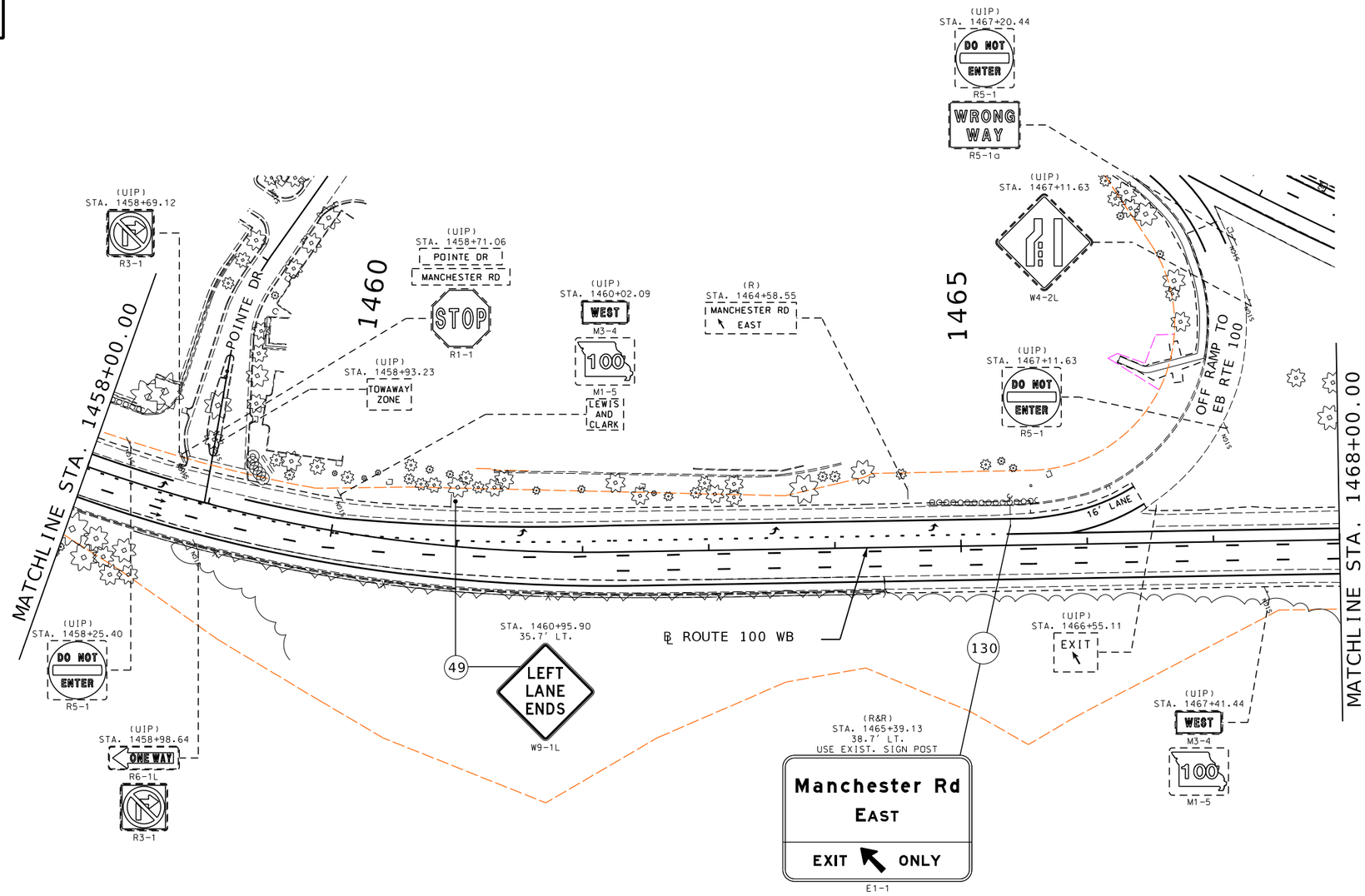

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

STATE OF MISSOURI
KENDRA MILLER
NUMBER PE-2014041301
PROFESSIONAL ENGINEER

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

DATE PREPARED
3/28/2025

MO ROUTE	STATE
100	MO
DISTRICT	SHEET NO.
SL	251

COUNTY
ST. LOUIS

JOB NO.
J6P3274

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DATE	DESCRIPTION

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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

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ST. 300
CHESTERFIELD, MO 63017
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PRO. ENGINEER 000133
ARCHITECT 000212
PRO. LAND SURVEYOR 000059

SHEET 13 OF 26

SIGNING SHEET

MO ROUTE 100
MANCHESTER ROAD

KENDRA MILLER
PROFESSIONAL ENGINEER
PE-2014041301

REV.

SCALE

0 50 100 150

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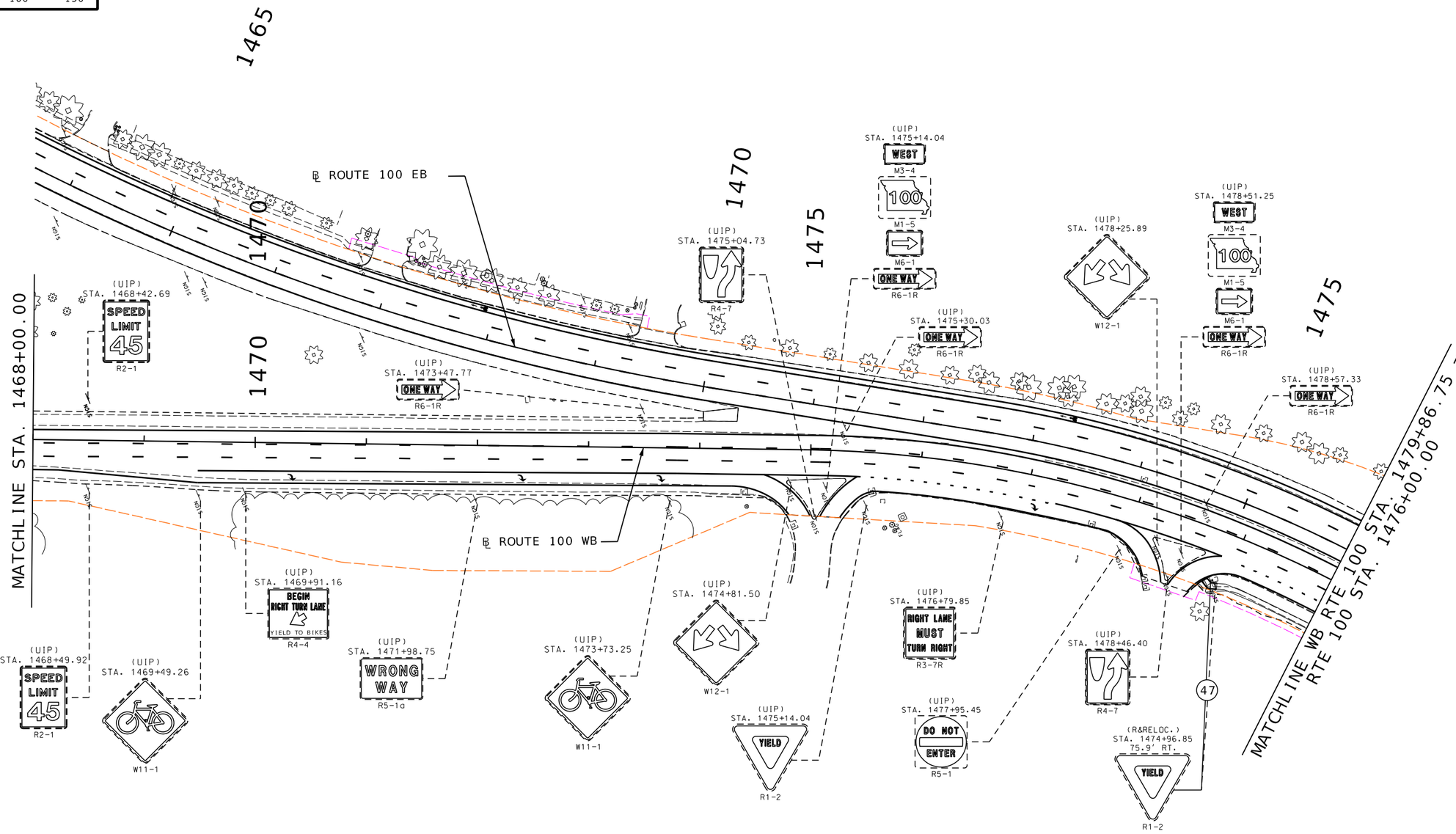

SHEET 14 OF 26

SIGNING SHEET

MO ROUTE 100
MANCHESTER ROAD

STATE OF MISSOURI
KENDRA MILLER
NUMBER PE-2014041301
PROFESSIONAL ENGINEER

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

DATE PREPARED
3/28/2025

MO ROUTE	STATE
100	MO
DISTRICT	SHEET NO.
SL	252

COUNTY
ST. LOUIS

JOB NO.
J6P3274

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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ARCHITECT 000212
PRO. LAND SURVEYOR 000059

KENDRA MILLER
PROFESSIONAL ENGINEER
PE-2014041301

REV.

SCALE

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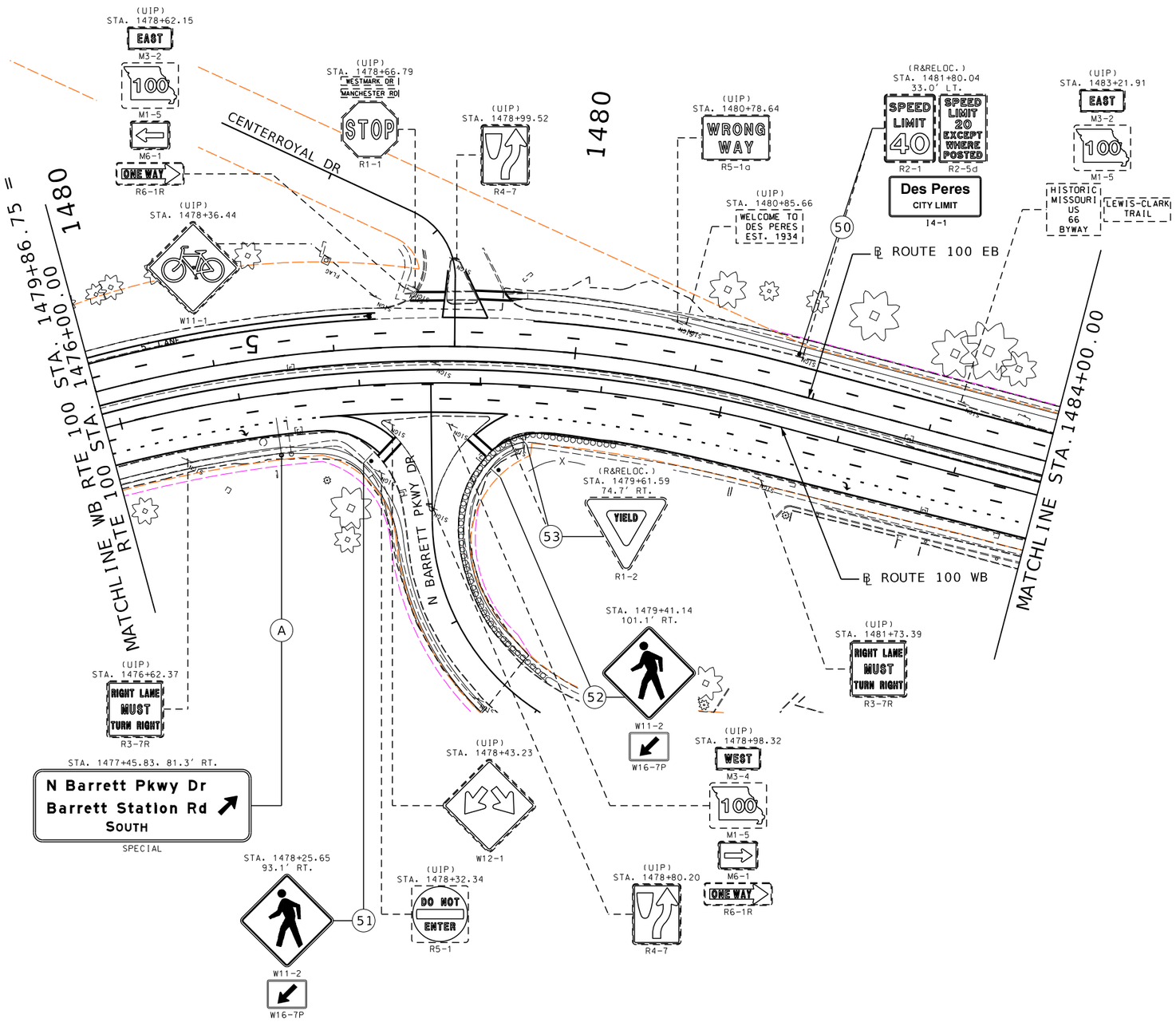

SHEET 15 OF 26

SIGNING SHEET

MO ROUTE 100
MANCHESTER ROAD

KENDRA MILLER
PROFESSIONAL ENGINEER
PE-2014041301

STATE OF MISSOURI
KENDRA MILLER
NUMBER PE-2014041301
PROFESSIONAL ENGINEER

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

DATE PREPARED
3/28/2025

MO ROUTE	STATE
100	MO
DISTRICT	SHEET NO.
SL	253

COUNTY
ST. LOUIS

JOB NO.
J6P3274

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)

GBA
16305 SWINGLEY RIDGE RD
ST. 300
CHESTERFIELD, MO 63017
314.231.0100
GBAteam.com

GEORGE BUTLER
ASSOCIATES, INC.
PRO. ENGINEER 000133
ARCHITECT 000212
PRO. LAND SURVEYOR 000059

SCALE

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DISCLAIMER
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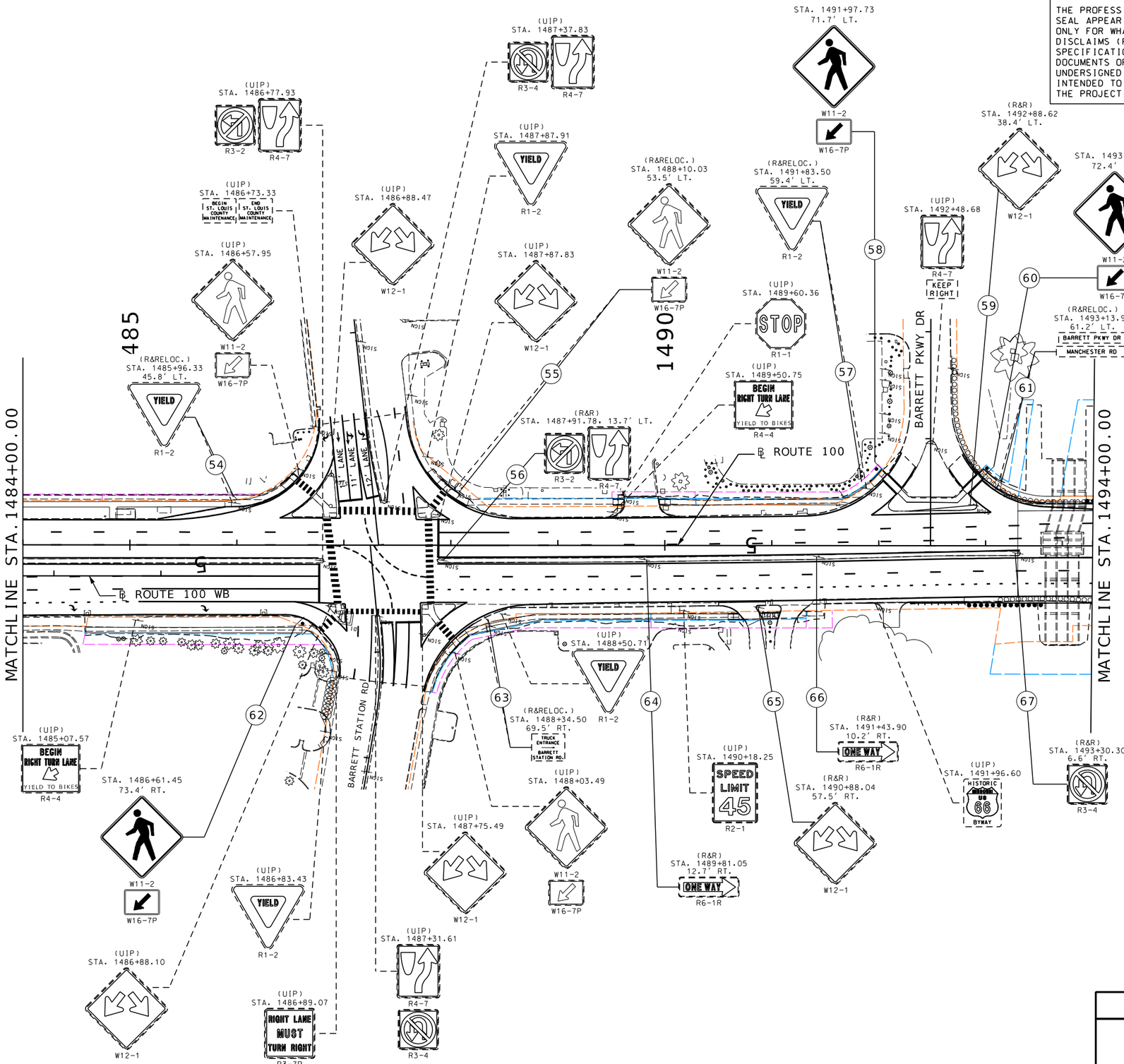

SHEET 16 OF 26

SIGNING SHEET

MO ROUTE 100
MANCHESTER ROAD

STATE OF MISSOURI
KENDRA MILLER
NUMBER PE-2014041301
PROFESSIONAL ENGINEER

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

DATE PREPARED 3/28/2025

MO ROUTE	STATE
100	MO
DISTRICT	SHEET NO.
SL	254

COUNTY: ST. LOUIS
JOB NO.: J6P3274
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)

GBA
16305 SWINGLEY RIDGE RD
ST. 300
CHESTERFIELD, MO 63017
314.231.0100
GBAteam.com

GEORGE BUTLER ASSOCIATES, INC.
PRO. ENGINEER 000133
ARCHITECT 000212
PRO. LAND SURVEYOR 000059

KENDRA MILLER
PROFESSIONAL ENGINEER
PE-2014041301

XXMSD-XXXXX, BASEMAPS 25-26N, 25M, 24-25K, 23-24J

c:*dms*gba-pw-01*regan hutchinson*dms05308*254_SN_16_J6P3274_i50_RTE100.dgn

3/28/2025

SCALE

0 50 100 150

DISCLAIMER
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STATE OF MISSOURI
KENDRA MILLER
NUMBER PE-2014041301
PROFESSIONAL ENGINEER

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DATE PREPARED	
3/28/2025	
MO ROUTE	STATE
100	MO
DISTRICT	SHEET NO.
SL	255
COUNTY	
ST. LOUIS	
JOB NO.	
J6P3274	
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)

GBA
16305 SWINGLEY RIDGE RD
ST. 300
CHESTERFIELD, MO 63017
314.231.0100
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GEORGE BUTLER ASSOCIATES, INC.
PRO. ENGINEER 000133
ARCHITECT 000212
PRO. LAND SURVEYOR 000059

KENDRA MILLER
PROFESSIONAL ENGINEER
PE-2014041301

REV.

STA. 1494+22
47.8' LT.
Barrett Pkwy Dr
Barrett Station Rd
NORTH
SPECIAL
1495
B
MATCHLINE STA.1494+00.00

(R&RELOC.)
STA. 1499+03.84
56.6' LT.
NO OUTLET
MASON LN
MANCHESTER RD
ST. LOUIS COUNTY
JOHN ALLEN LOVE PARK
END ST. LOUIS COUNTY MAINTENANCE
BEGIN ST. LOUIS COUNTY MAINTENANCE
68

(UIP)
STA. 1498+58.79
STOP
R1-1

MASON LN

(UIP)
STA. 1500+69.15
EAST
M3-2
100
M1-5
METRO BUS
1500

(R&RELOC.)
STA. 1502+56.08
38.5' LT.
W11-1

(R&RELOC.)
STA. 1502+81.90
39.7' LT.
YIELD
R1-2
70

(UIP)
STA. 1502+97.63
R4-7

69

STA. 1503+11.09
65.6' LT.
W11-2
W16-7P
71

(R&R)
STA. 1503+33.18
W12-1

72

(R&RELOC.)
STA. 1503+74.54
83.3' LT.
YIELD
R1-2

(R&R)
STA. 1503+83.08
W12-1
74

73

STA. 1503+98.43
66.2' LT.
W11-2
W16-7P

1505
75

(UIP)
STA. 1505+16.47
R4-7

(UIP)
STA. 1495+88.96
RIGHT LANE MUST TURN RIGHT
R3-7R

(UIP)
STA. 1497+93.32
RIGHT LANE MUST TURN RIGHT
R3-7R

℄ ROUTE 100

(UIP)
STA. 1503+07.17
W12-1

STA. 1502+92.46
62.6' RT.
W11-2
W16-7P
76

77

(R&RELOC.)
STA. 1502+93.60
63.5' RT.
YIELD
R1-2

(UIP)
STA. 1503+63.81
W12-1

MASON RD

(UIP)
STA. 1505+00.00
METRO BUS

(UIP)
STA. 1503+99.00
R4-7

MATCHLINE STA.1506+00.00

STA. 1503+96.88
67.7' RT.
W11-2
W16-7P
78

79

(R&RELOC.)
STA. 1504+25.16
48.7' RT.
YIELD
R1-2

SHEET 17 OF 26

SIGNING SHEET

MO ROUTE 100
MANCHESTER ROAD

SCALE

0 50 100 150

DISCLAIMER

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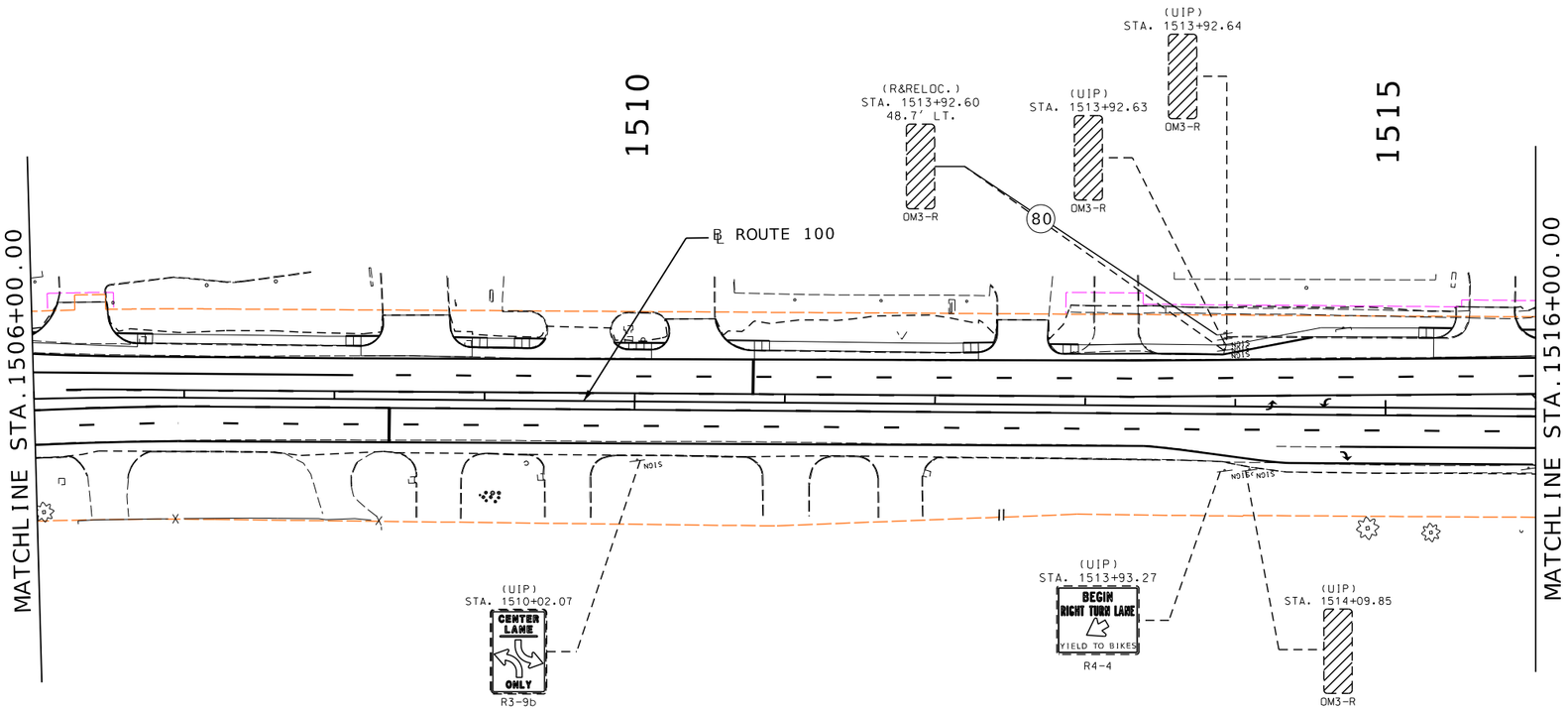

STATE OF MISSOURI
KENDRA MILLER
NUMBER PE-2014041301
PROFESSIONAL ENGINEER

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

DATE PREPARED
3/28/2025

MO ROUTE	STATE
100	MO
DISTRICT	SHEET NO.
SL	256

COUNTY
ST. LOUIS

JOB NO.
J6P3274

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)

GBA
16305 SWINGLEY RIDGE RD
ST. 300
CHESTERFIELD, MO 63017
314.231.0100
GBAteam.com

GEORGE BUTLER
ASSOCIATES, INC.
PRO. ENGINEER 000133
ARCHITECT 000212
PRO. LAND SURVEYOR 000059

SHEET 18 OF 26

SIGNING SHEET

MO ROUTE 100
MANCHESTER ROAD

KENDRA MILLER
PROFESSIONAL
ENGINEER
PE-2014041301

REV.

SCALE

0 50 100 150

DISCLAIMER

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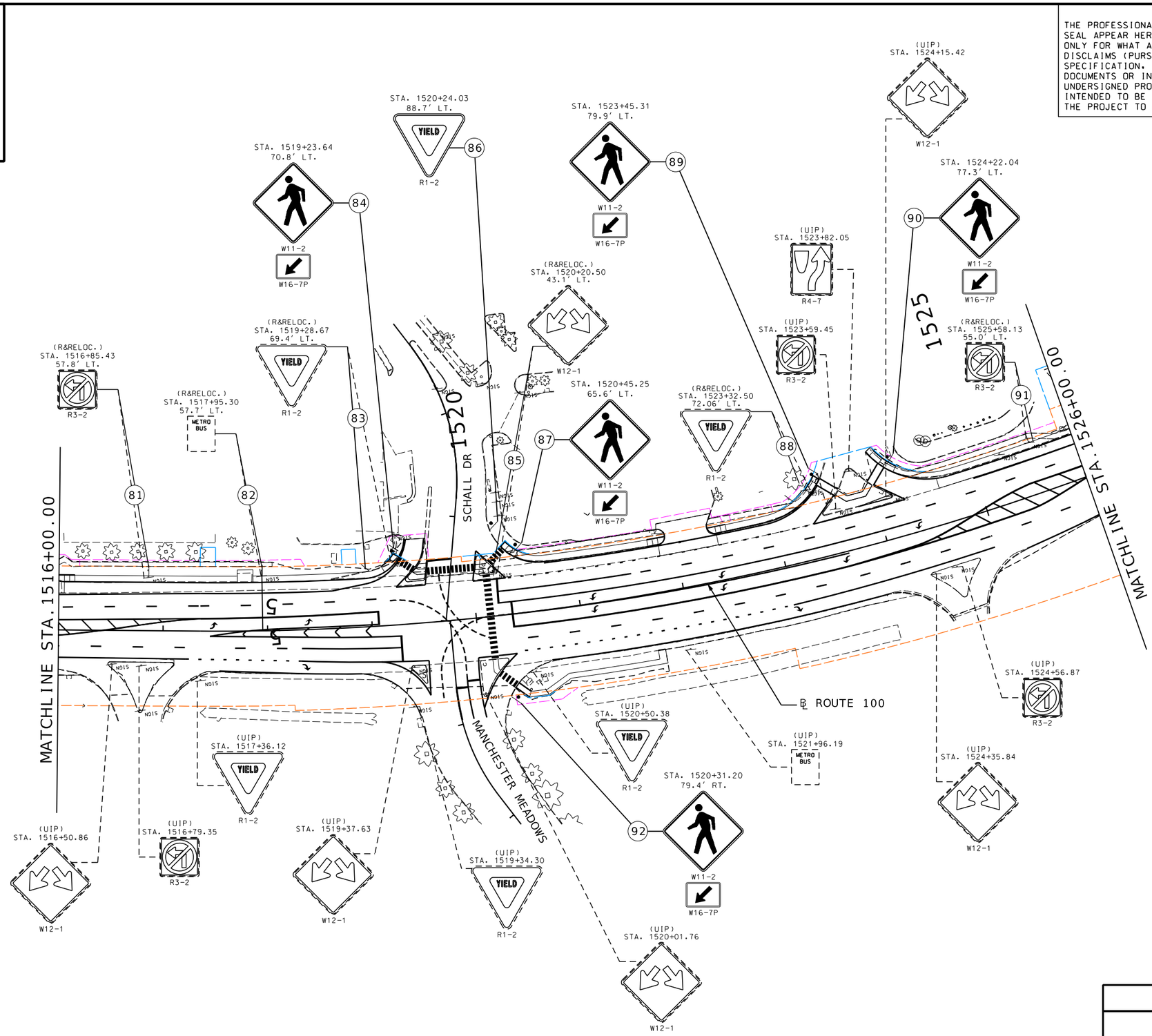

STATE OF MISSOURI
KENDRA MILLER
NUMBER PE-2014041301
PROFESSIONAL ENGINEER

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	
3/28/2025	
MO ROUTE 100	STATE MO
DISTRICT SL	SHEET NO. 257
COUNTY ST. LOUIS	
JOB NO. J6P3274	
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)

GBA
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GBAteam.com

GEORGE BUTLER ASSOCIATES, INC.
PRO. ENGINEER 000133
ARCHITECT 000212
PRO. LAND SURVEYOR 000059

SHEET 19 OF 26

SIGNING SHEET

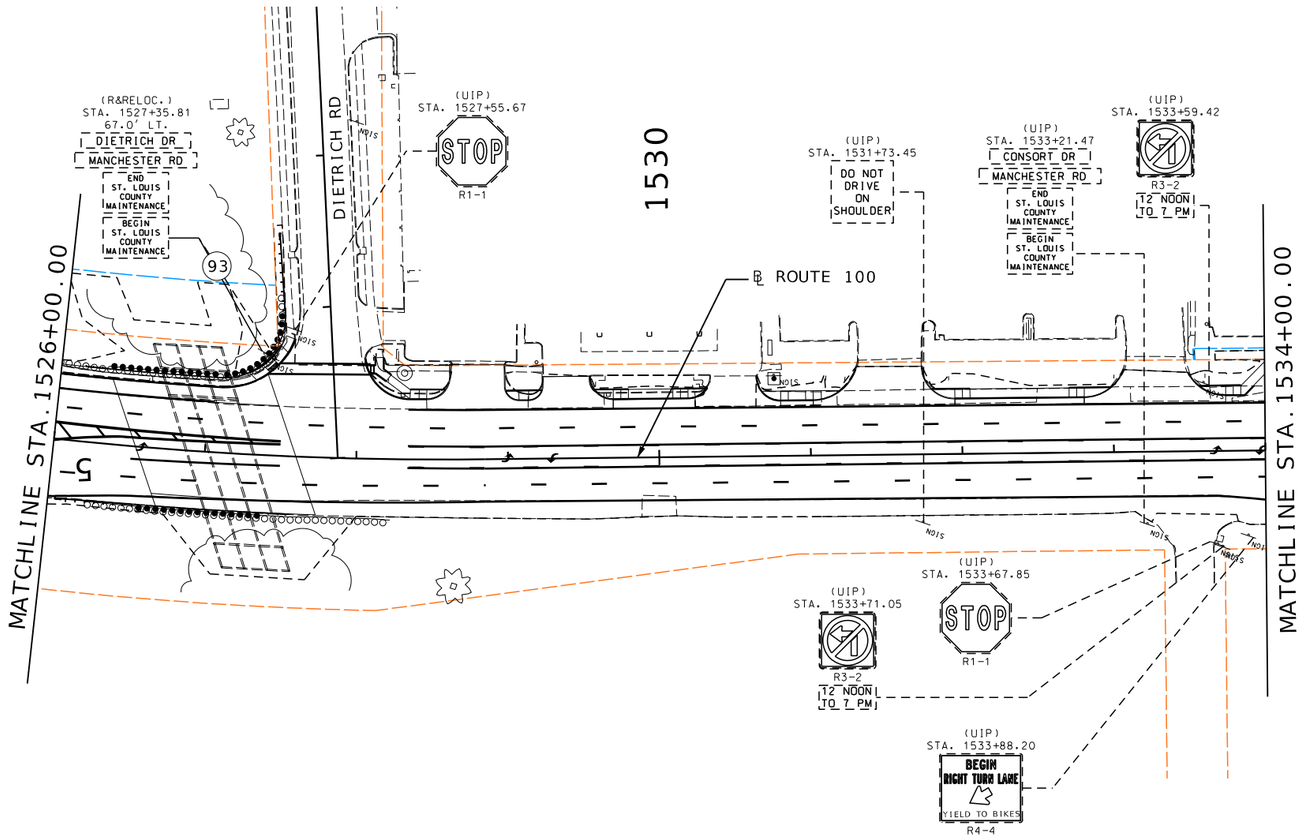
MO ROUTE 100
MANCHESTER ROAD

KENDRA MILLER
PROFESSIONAL ENGINEER
PE-2014041301

REV.

SCALE

0 50 100 150



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STATE OF MISSOURI
KENDRA MILLER
NUMBER PE-2014041301
PROFESSIONAL ENGINEER

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

DATE PREPARED
3/28/2025

MO ROUTE	STATE
100	MO
DISTRICT	SHEET NO.
SL	258

COUNTY
ST. LOUIS

JOB NO.
J6P3274

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)

GBA
16305 SWINGLEY RIDGE RD
ST. 300
CHESTERFIELD, MO 63017
314.231.0100
GBAteam.com

GEORGE BUTLER ASSOCIATES, INC.
PRO. ENGINEER 000133
ARCHITECT 000212
PRO. LAND SURVEYOR 000059

SHEET 20 OF 26

SIGNING SHEET

MO ROUTE 100
MANCHESTER ROAD

KENDRA MILLER
PROFESSIONAL ENGINEER
PE-2014041301

REV.

SCALE

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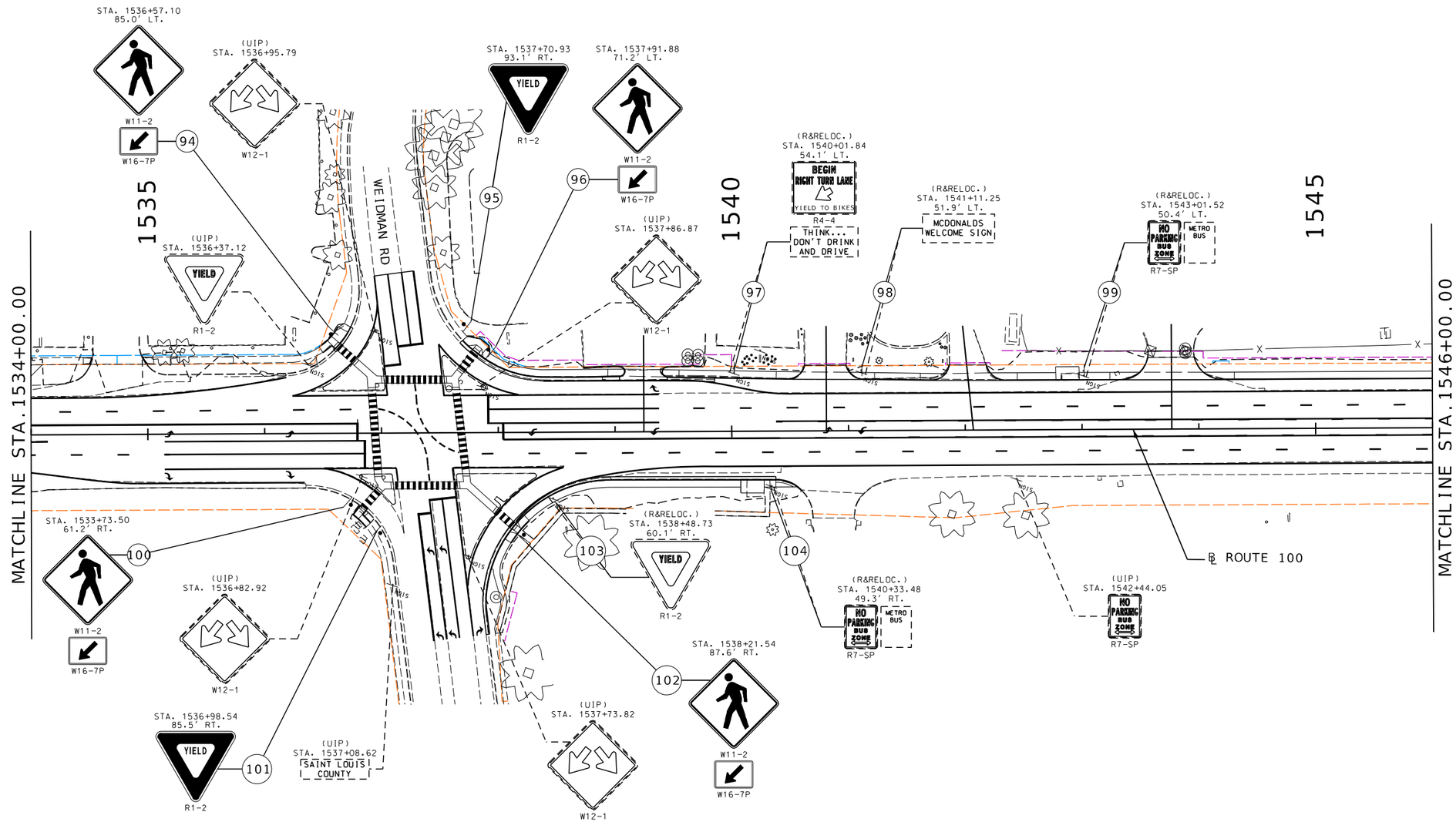

SHEET 21 OF 26

SIGNING SHEET

MO ROUTE 100
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STATE OF MISSOURI
KENDRA MILLER
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100	MO
DISTRICT	SHEET NO.
SL	259

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ST. LOUIS

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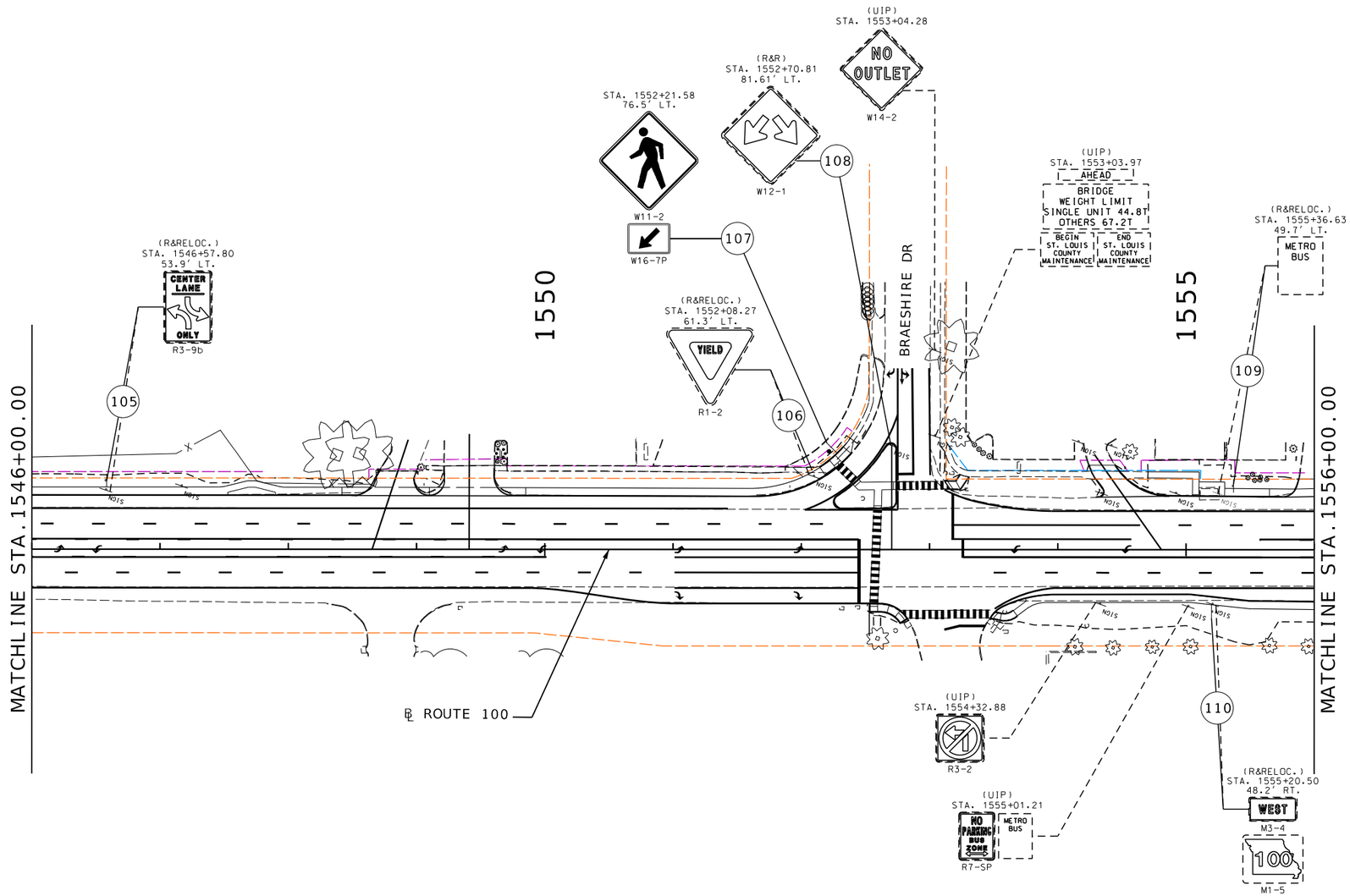

SHEET 22 OF 26

SIGNING SHEET

MO ROUTE 100
MANCHESTER ROAD

KENDRA MILLER
PROFESSIONAL ENGINEER
PE-2014041301

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KENDRA MILLER
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100	MO
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SL	260

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ARCHITECT 000212
PRO. LAND SURVEYOR 000059

REV.

XXMSD-XXXXX, BASEMAPS 25-26N, 25M, 24-25K, 23-24J

c:*dms*gba-pw-01*regan hutchinson*dms05308*260_SN_22_J6P3274_i50_RTE100.dgn

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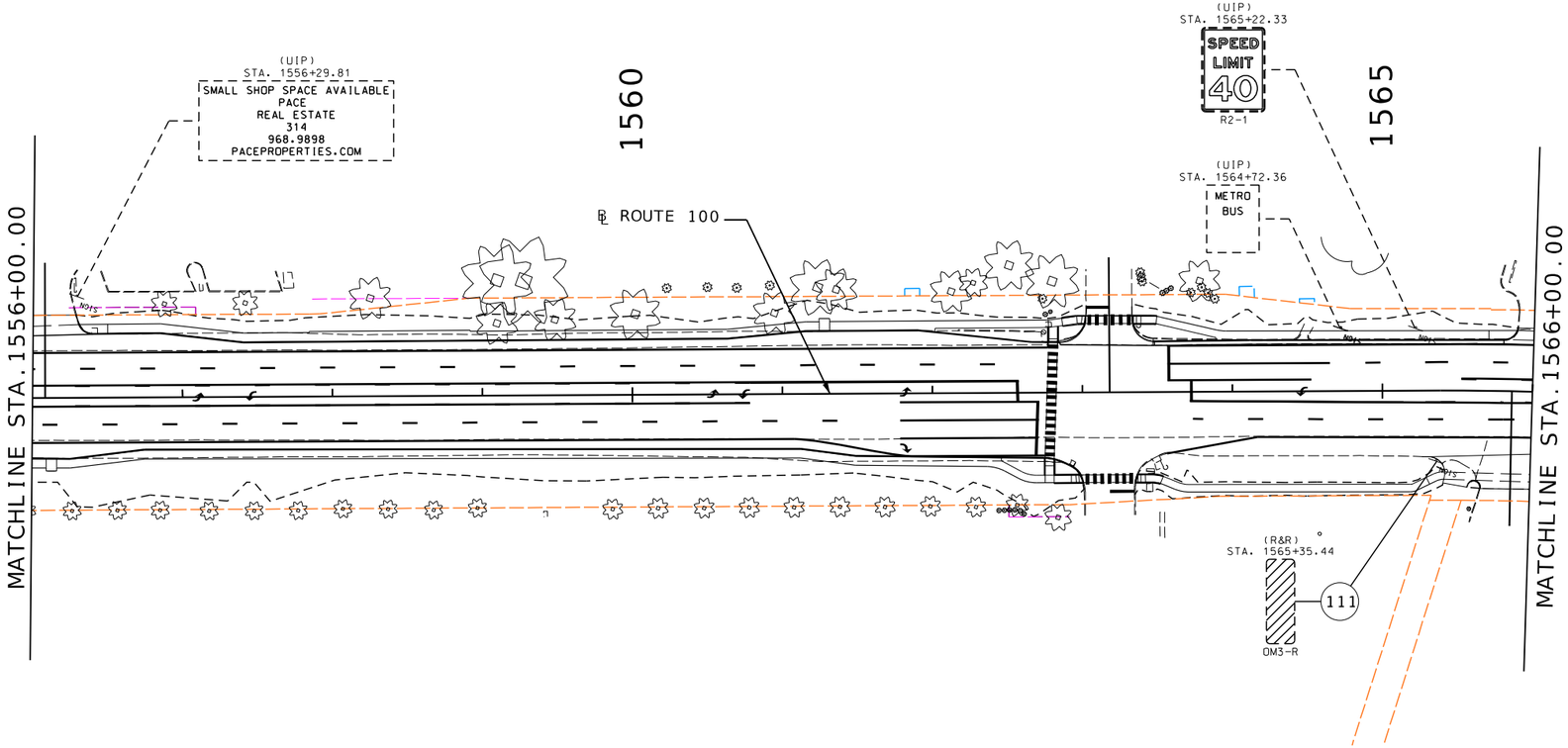

SHEET 23 OF 26

SIGNING SHEET

MO ROUTE 100
MANCHESTER ROAD

KENDRA MILLER
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PE-2014041301

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

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MO ROUTE	STATE
100	MO
DISTRICT	SHEET NO.
SL	261

COUNTY
ST. LOUIS

JOB NO.
J6P3274

CONTRACT ID.

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105 WEST CAPITOL
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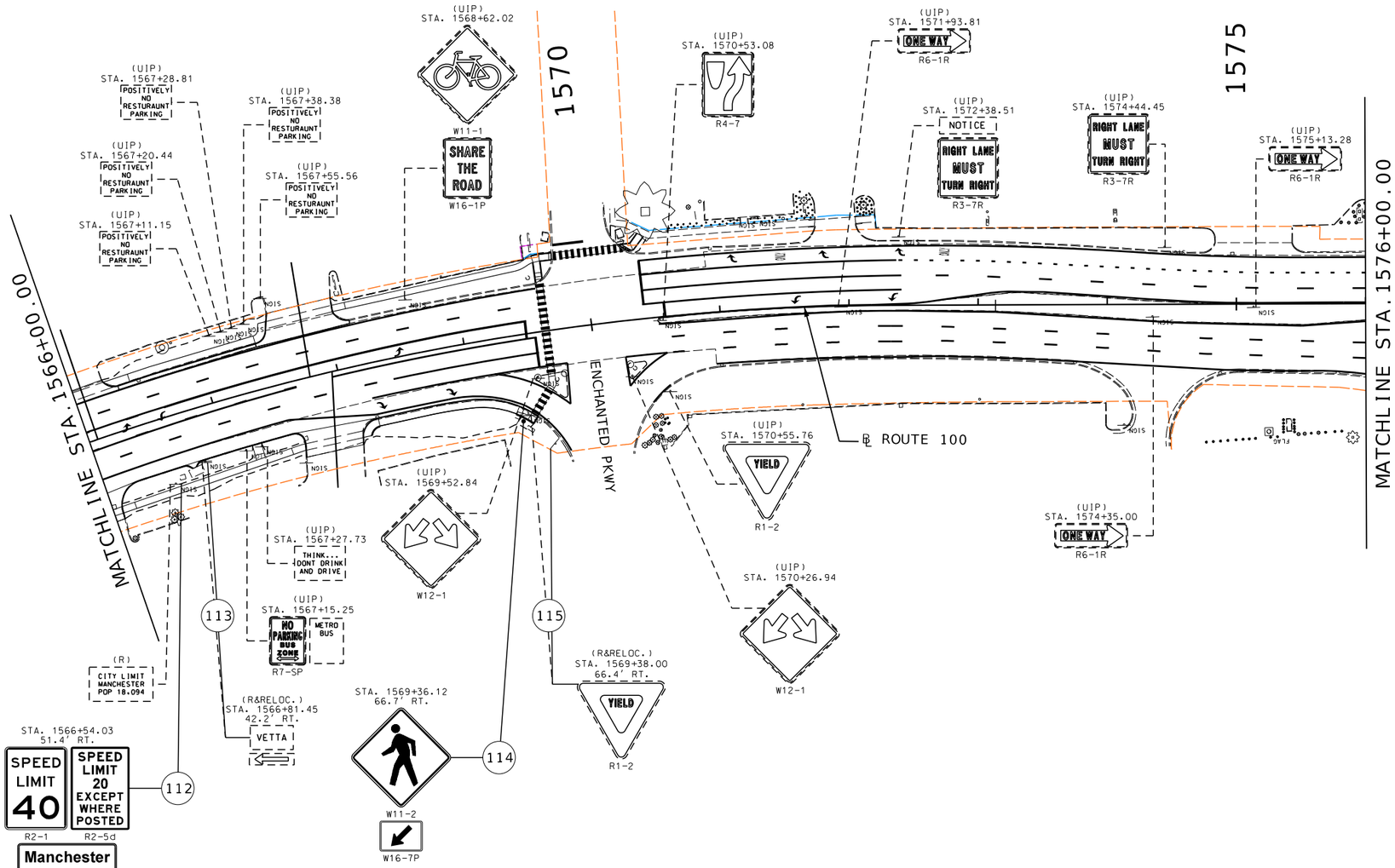

SHEET 24 OF 26

SIGNING SHEET

MO ROUTE 100
MANCHESTER ROAD

STATE OF MISSOURI
KENDRA MILLER
NUMBER PE-2014041301
PROFESSIONAL ENGINEER

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DATE PREPARED
3/28/2025

MO ROUTE	STATE
100	MO
DISTRICT	SHEET NO.
SL	262

COUNTY
ST. LOUIS

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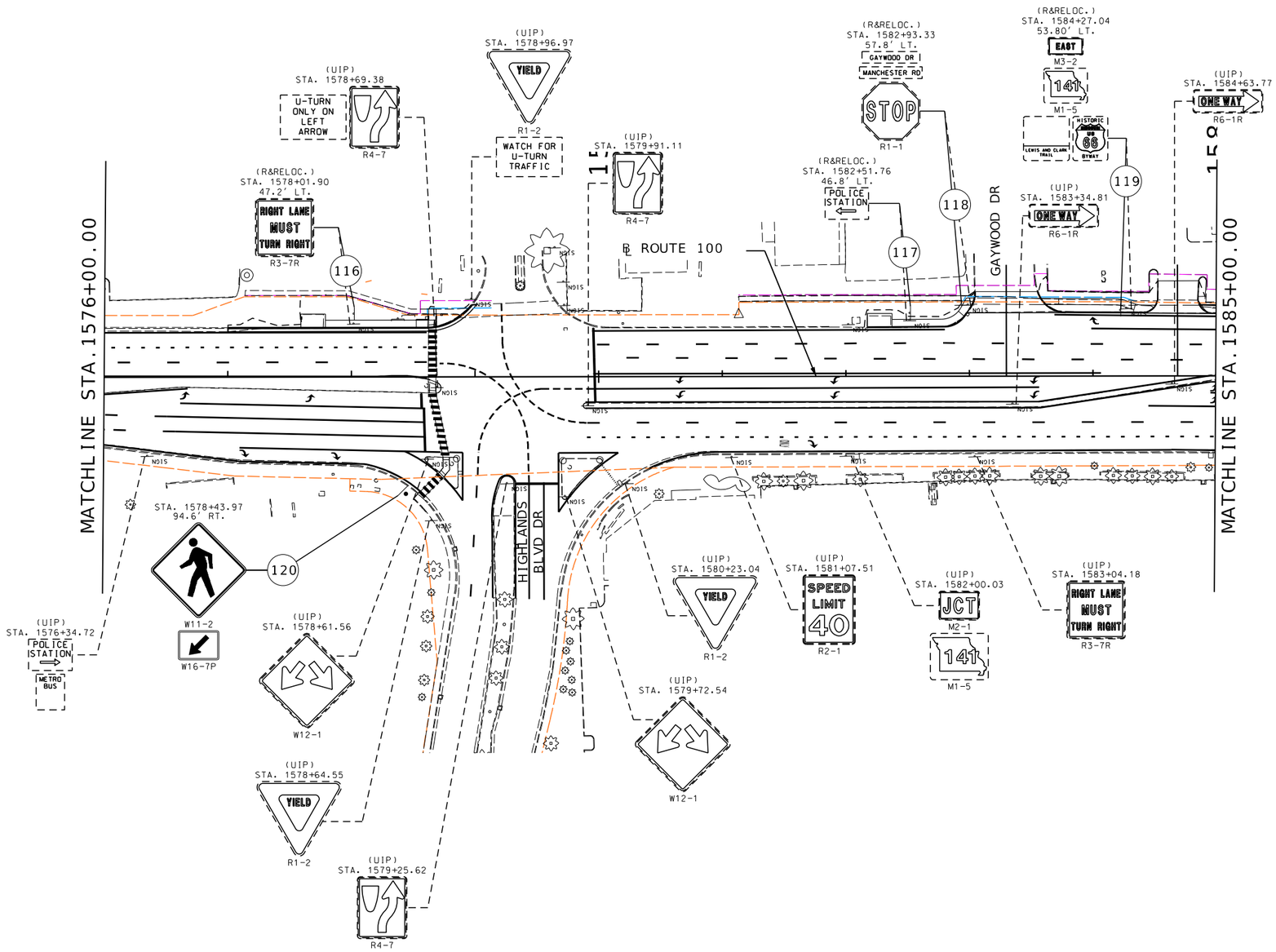

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KENDRA MILLER
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MO ROUTE	STATE
100	MO
DISTRICT	SHEET NO.
SL	263

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JOB NO.
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105 WEST CAPITOL
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SHEET 25 OF 26

SIGNING SHEET

MO ROUTE 100
MANCHESTER ROAD

KENDRA MILLER
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PE-2014041301

SCALE

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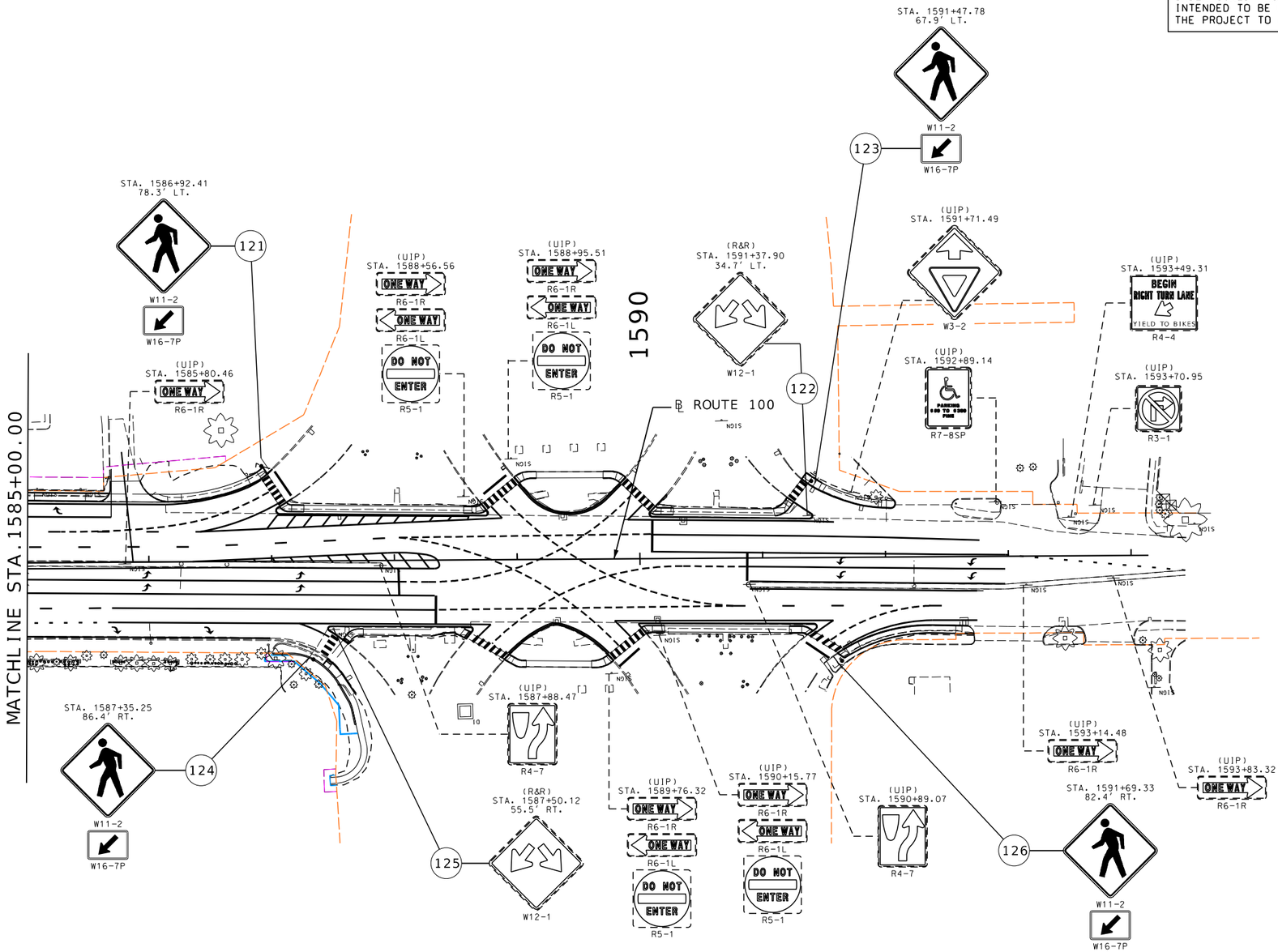

SHEET 26 OF 26

SIGNING SHEET

MO ROUTE 100
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STATE OF MISSOURI
KENDRA MILLER
NUMBER PE-2014041301
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THIS SHEET HAS BEEN SIGNED, SEALED, AND DATED ELECTRONICALLY.

DATE PREPARED
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MO ROUTE	STATE
100	MO
DISTRICT	SHEET NO.
SL	264

COUNTY
ST. LOUIS

JOB NO.
J6P3274

CONTRACT ID.

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BRIDGE NO.

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KENDRA MILLER
PROFESSIONAL
ENGINEER
PE-2014041301

REV.

EFFECTIVE: 07-01-2024

SIGNS 902 SIGNAL SIGNS TABULATED ON D-37A SHEET						CONCRETE FOOTINGS EMBEDDED	STRUCTURAL STEEL POSTS *						PIPE POSTS *					BACKING BARS **				U-CHANNEL POST	PERFORATED SQUARE STEEL TUBE												REMARKS AND OTHER REQUIRED ITEMS
																							2 IN. POST						2.5 IN. POST							
																										ANCHORS					ANCHORS		BREAK-AWAY ASSEMBLY	
SIGN NO.	SIGN SIZE	STATION	HORZ CLEAR IF NOT STD	LOCATION	SIGN DTL. SHT. NO.	ITEM NO. 9031010	POST DES NO.	POST NO.1	POST NO.2	POST NO.3	LBS PER FT	TOTAL ITEM NO. 9031210	PIPE SIZE	POST NO.1	POST NO.2	LBS PER FT	TOTAL ITEM NO. 9031220	2" X 3/8" BARS @ 2.55 LBS PER FT NO. EACH	LGTH	TOTAL	TOTAL	ITEM NO. 9031250A	POST NO.1	POST NO.2	TOTAL ITEM NO. 9031270A	DRIVEN 12-GA. ITEM NO. 9031271A	DRIVEN 7-GA. ITEM NO. 9031273A	CONCRETE 7-GA. ITEM NO. 9031274	POST NO.1	POST NO.2	TOTAL ITEM NO. 9031280	2.25" INSERT (6 FT) ITEM NO. 9031272A	DRIVEN 7-GA. ITEM NO. 9031281A	CONCRETE 7-GA. ITEM NO. 9031285	ITEM NO. 9031241	
						CY		LF	LF	LF		LBS	IN.	LF	LF		LBS	EACH	IN.	LF	LBS	LF	LF	LF	LF	EA	EA	EA	LF	LF	LF	EA	EA	EA	EA	
1	ASSY.	1418+43		ROUTE 100																			11.00	11.00	22.00	2										
2	24"X24"	1421+97		ROUTE 100																			9.00		9.00	1										
3	24"X24"	1423+29		ROUTE 100																			9.00		9.00	1										
4	ASSY.	1419+78		ROUTE 100																			11.00	11.00	22.00	2										
5	ASSY.	1420+26		ROUTE 100																			11.00	11.00	22.00	2										
6	54"X18"	1431+96		ROUTE 100																			9.00	9.00	18.00	2										
7	ASSY.	1433+88		ROUTE 100																			12.00		12.00	1										
8	54"X18"	1434+89		ROUTE 100																			9.00	9.00	18.00	2										
9	ASSY.	1435+45		ROUTE 100																			11.00		11.00	1										
10	42"X30"	1433+62		ROUTE 100																			10.00		10.00	1										
11	54"X18"	1434+24		ROUTE 100																			9.00	9.00	18.00	2										
12	ASSY.	1435+15		ROUTE 100																			11.00	11.00	22.00	2										
13	54"X18"	1437+29		ROUTE 100																			9.00	9.00	18.00	2										
14	24"X24"	1438+52		ROUTE 100																			9.00		9.00	1										
15	ASSY.	1440+39		ROUTE 100																										11.00		11.00		1			
16	ASSY.	1441+11		ROUTE 100																			11.00	11.00	22.00	2										
17	24"X24"	1445+78		ROUTE 100																			9.00		9.00	1										
18	54"X18"	1436+65		ROUTE 100																			9.00	9.00	18.00	2										
19	24"X24"	1437+27		ROUTE 100																			9.00		9.00	1										
20	24"X24"	1437+84		ROUTE 100																			9.00		9.00	1										
21	54"X18"	1438+10		ROUTE 100																			9.00	9.00	18.00	2										
22	42"X30"	1438+51		ROUTE 100																			10.00		10.00	1										
23	54"X18"	1438+74		ROUTE 100																			9.00	9.00	18.00	2										
24	ASSY.	1439+60		ROUTE 100																			11.00	11.00	22.00	2										
25	ASSY.	1440+27		ROUTE 100																			11.00	11.00	22.00	2										
26	ASSY.	1441+80		ROUTE 100																			11.00		11.00	1										
27	ASSY.	1449+22		ROUTE 100																			11.00	11.00	22.00	2										
28	ASSY.	1449+42		ROUTE 100																			11.00	11.00	22.00	2										
29	42"X30"	1450+44		ROUTE 100																			10.00		10.00	1										
30	ASSY.	1450+99		ROUTE 100																			11.00	11.00	22.00	2										
31	24"X24"	1455+39		ROUTE 100																			9.00		9.00	1										
32	42"X30"	1455+86		ROUTE 100																			10.00		10.00	1										
33	ASSY.	1447+36		ROUTE 100																										13.00	13.00	26.00		2			2
34	ASSY.	1448+25		ROUTE 100																			11.00	11.00	22.00	2										
35	42"X30"	1450+45		ROUTE 100																			10.00		10.00	1										
36	ASSY.	1451+35		ROUTE 100																			11.00	11.00	22.00	2										
37	54"X18"	1454+83		ROUTE 100																			9.00	9.00	18.00	2										
38	42"X30"	1455+58		ROUTE 100																			10.00		10.00	1										
39	ASSY.	1456+83		ROUTE 100																			11.00	11.00	22.00	2										
40	24"X24"	1457+90		ROUTE 100																			9.00		9.00	1										
41	24"X24"	1458+93		ROUTE 100																			9.00		9.00	1										
42	12"X18"	1459+84		ROUTE 100																			9.00		9.00	1										
43	24"X24"	1460+03		ROUTE 100																			9.00		9.00	1										
44	24"X24"	1463+74		ROUTE 100																			9.00		9.00	1										
45	SPECIAL	1464+87		ROUTE 100																			9.00		9.00	1										
46	ASSY.	1457+05		ROUTE 100																			11.00	11.00	22.00	2										
47	48"TRI.	1474+97		ROUTE 100																										11.00		11.00		1			
48	36"X36"	1455+54		ROUTE 100																			10.00		10.00	1										
49	36"X36"	1460+96		ROUTE 100																			10.00		10.00	1										
50	ASSY.	1481+80		ROUTE 100	D-31																									13.00	13.00	26.00		2			2
51	ASSY.	1478+26		ROUTE 100																										12.00		12.00		1			
52	ASSY.	1479+41		ROUTE 100																										12.00		12.00		1			
53	ASSY.	1479+62		ROUTE 100																										11.00		11.00		1			
54	48"TRI	1485+96		ROUTE 100																										11.00		11.00		1			
55	ASSY.	1488+10		ROUTE 100																			11.00		11.00	1										
56	ASSY.	1487+92		ROUTE 100																			10.00		10.00				1							
57	48"TRI.	1491+84		ROUTE 100																										11.00		11.00		1			
58	ASSY.	1491+98		ROUTE 100																										12.00		12.00		1			
59	36"X36"	1492+89		ROUTE 100																			10.00		10.00				1							
60	ASSY.	1493+01		ROUTE 100																										12.00		12.00		1			
	SUBTOTAL					0						0													714	69		2			155	0	13		4	
	TOTAL					3.00						1523									**				1009	87		14			616	1	52		9	

* BREAKAWAY ASSEMBLY IS INCIDENTAL FOR STRUCTURAL STEEL AND PIPE POSTS.
** BACKING BARS ARE TOTALED WITH STRUCTURAL STEEL OR PIPE POSTS.

ROUND PIPE POST AND FOOTING DATA TABLE

NOM. SIZE	WEIGHT		STUB LENGTH	FOOTING		CONCRETE
(IN.)	LBS/FT	LBS/IN		DIA.	DEPTH	C.Y.
2½	5.79	0.48	4'- 3½"	12"	4-6"	0.13
4	10.79	0.90	5'- 3½"	18"	5-6"	0.36

STRUCTURAL STEEL POST AND FOOTING DATA TABLE

POST DES. NO.	POST 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

STATE OF MISSOURI
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MO ROUTE	STATE
100	MO
DISTRICT	SHEET NO.
SL	265

COUNTY
ST. LOUIS

JOB NO.
J6P3274

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DATE	DESCRIPTION	REV.

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

GBA
16305 SWINGLEY RIDGE RD
ST. 300
CHESTERFIELD, MO 63017
314.231.0100
GBAteam.com

GEORGE BUTLER ASSOCIATES, INC.
PRO. ENGINEER 000133
ARCHITECT 000212
PRO. LAND SURVEYOR 000059

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

SIGNING SHEET: D-29

MO ROUTE 100
MANCHESTER ROAD

KENDRA MILLER
PROFESSIONAL ENGINEER
PE-2014041301

EFFECTIVE: 07-01-2024

SIGNS 902 SIGNAL SIGNS TABULATED ON D-37A SHEET						CONCRETE FOOTINGS EMBEDDED	STRUCTURAL STEEL POSTS *						PIPE POSTS *					BACKING BARS **				U-CHANNEL POST	PERFORATED SQUARE STEEL TUBE										BREAK-AWAY ASSEMBLY	REMARKS AND OTHER REQUIRED ITEMS
																							2 IN. POST						2.5 IN. POST						
																										ANCHORS					ANCHORS			
SIGN NO.	SIGN SIZE	STATION	HORZ CLEAR IF NOT STD	LOCATION	SIGN DTL. SHT. NO.	ITEM NO. 9031010	POST DES NO.	POST NO.1	POST NO.2	POST NO.3	LBS PER FT	TOTAL ITEM NO. 9031210	PIPE SIZE	POST NO.1	POST NO.2	LBS PER FT	TOTAL ITEM NO. 9031220	NO. EACH	LGTH	TOTAL	TOTAL	ITEM NO. 9031250A	POST NO.1	POST NO.2	TOTAL ITEM NO. 9031270A	DRIVEN 12-GA. ITEM NO. 9031271A	DRIVEN 7-GA. ITEM NO. 9031273A	CONCRETE 7-GA. ITEM NO. 9031274	POST NO.1	POST NO.2	TOTAL ITEM NO. 9031280	2.25" INSERT (6 FT) ITEM NO. 9031272A	DRIVEN 7-GA. ITEM NO. 9031281A	CONCRETE 7-GA. ITEM NO. 9031285	ITEM NO. 9031241	
						CY		LF	LF	LF		LBS	IN.	LF	LF		LBS	EACH	IN.	LF	LBS	LF	LF	LF	LF	EA	EA	EA	LF	LF	LF	EA	EA	EA	EA	
61	ASSY.	1493+14		ROUTE 100																			9.00		9.00	1										
62	ASSY.	1486+61		ROUTE 100																									12.00		12.00		1			
63	SPECIAL	1488+35		ROUTE 100																			9.00		9.00	1										
64	54"X18"	1489+81		ROUTE 100																			9.00	9.00	18.00			2								
65	36"X36"	1490+88		ROUTE 100																			10.00		10.00			1								
66	54"X18"	1491+44		ROUTE 100																			9.00	9.00	18.00			2								
67	48"X48"	1493+30		ROUTE 100																			11.00		11.00			1								
68	ASSY.	1499+04		ROUTE 100																									13.00		13.00	1	1		1	
69	36"X36"	1502+56		ROUTE 100																			10.00		10.00	1										
70	48"TRI.	1502+82		ROUTE 100																									11.00		11.00		1			
71	ASSY.	1503+11		ROUTE 100																									12.00		12.00		1			
72	36"X36"	1503+33		ROUTE 100																			10.00		10.00			1								
73	48"TRI.	1503+75		ROUTE 100																									11.00		11.00		1			
74	36"X36"	1503+83		ROUTE 100																			10.00		10.00			1								
75	ASSY.	1503+98		ROUTE 100																									12.00		12.00		1			
76	ASSY.	1502+92		ROUTE 100																									12.00		12.00		1			
77	48"TRI.	1502+94		ROUTE 100																									11.00		11.00		1			
78	ASSY.	1503+97		ROUTE 100																									12.00		12.00		1			
79	48"TRI.	1504+25		ROUTE 100																									11.00		11.00		1			
80	12"X36"	1513+93		ROUTE 100																			10.00		10.00	1										
81	24"X24"	1516+85		ROUTE 100																			9.00		9.00	1										
82	SPECIAL	1517+95		ROUTE 100																			9.00		9.00	1										
83	48"TRI.	1519+29		ROUTE 100																									11.00		11.00		1			
84	ASSY.	1519+24		ROUTE 100																									12.00		12.00		1			
85	36"X36"	1520+21		ROUTE 100																			10.00		10.00			1								
86	48"TRI.	1520+24		ROUTE 100																									11.00		11.00		1			
87	ASSY.	1520+45		ROUTE 100																									12.00		12.00		1			
88	48"TRI.	1523+33		ROUTE 100																									11.00		11.00		1			
89	ASSY.	1523+45		ROUTE 100																									12.00		12.00		1			
90	ASSY.	1524+22		ROUTE 100																									12.00		12.00		1			
91	24"X24"	1525+58		ROUTE 100																			9.00		9.00	1										
92	ASSY.	1520+31		ROUTE 100																									12.00		12.00		1			
93	ASSY.	1527+36		ROUTE 100																			11.00		11.00	1										
94	ASSY.	1536+57		ROUTE 100																									12.00		12.00		1			
95	48"TRI.	1537+71		ROUTE 100																									11.00		11.00		1			
96	ASSY.	1537+92		ROUTE 100																									12.00		12.00		1			
97	ASSY.	1540+02		ROUTE 100																									12.00		12.00		1			
98	SPECIAL	1541+11		ROUTE 100																																MCDONALDS WELCOME SIGN
99	ASSY.	1543+02		ROUTE 100																			11.00		11.00	1										
100	ASSY.	1533+74		ROUTE 100																									12.00		12.00		1			
101	48"TRI.	1536+99		ROUTE 100																									11.00		11.00		1			
102	ASSY.	1538+22		ROUTE 100																									12.00		12.00		1			
103	48"TRI.	1538+49		ROUTE 100																									11.00		11.00		1			
104	ASSY.	1540+33		ROUTE 100																			11.00		11.00	1										
105	24"X36"	1546+58		ROUTE 100																			10.00		10.00	1										
106	48"TRI.	1552+08		ROUTE 100																									11.00		11.00		1			
107	ASSY.	1552+22		ROUTE 100																									12.00		12.00		1			
108	36"X36"	1552+71		ROUTE 100																			10.00		10.00			1								
109	SPECIAL	1555+37		ROUTE 100																			9.00		9.00	1										
110	ASSY.	1555+21		ROUTE 100																			10.00		10.00	1										
111	12"X36"	1565+35		ROUTE 100																			10.00		10.00	1										
112	ASSY.	1566+54		ROUTE 100	D-31																								13.00	13.00	26.00		2		2	
113	ASSY.	1566+81		ROUTE 100																			11.00		11.00	1										
114	ASSY.	1569+36		ROUTE 100																									12.00		12.00		1			
115	48"TRI.	1569+38		ROUTE 100																									11.00		11.00		1			
116	36"X36"	1578+02		ROUTE 100																			10.00		10.00	1										
117	SPECIAL	1582+52		ROUTE 100																			10.00		10.00	1										
118	ASSY.	1582+93		ROUTE 100																			12.00		12.00	1										
119	ASSY.	1584+27		ROUTE 100																									13.00	13.00	26.00		2		2	
120	ASSY.	1578+44		ROUTE 100																									12.00		12.00		1			
				SUBTOTAL		0						0													277	18		10			413	1	35		5	
				TOTAL		3.00						1523									**				1009	87		14			616	1	52		9	

* BREAKAWAY ASSEMBLY IS INCIDENTAL FOR STRUCTURAL STEEL AND PIPE POSTS.
** BACKING BARS ARE TOTALED WITH STRUCTURAL STEEL OR PIPE POSTS.

ROUND PIPE POST AND FOOTING DATA TABLE

NOM. SIZE	WEIGHT		STUB LENGTH	FOOTING		CONCRETE
(IN.)	LBS/FT	LBS/IN		DIA.	DEPTH	C.Y.
2½	5.79	0.48	4'- 3½"	12"	4-6"	0.13
4	10.79	0.90	5'- 3½"	18"	5-6"	0.36

STRUCTURAL STEEL POST AND FOOTING DATA TABLE

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

STATE OF MISSOURI
KENDRA MILLER
NUMBER PE-2014041301
PROFESSIONAL ENGINEER

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

DATE PREPARED
3/28/2025

MO ROUTE	STATE
100	MO
DISTRICT	SHEET NO.
SL	266

COUNTY
ST. LOUIS

JOB NO.
J6P3274

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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GEORGE BUTLER ASSOCIATES, INC.
PRO. ENGINEER 000133
ARCHITECT 000212
PRO. LAND SURVEYOR 000059

SIGNING SHEET: D-29

MO ROUTE 100
MANCHESTER ROAD

D-29

KENDRA MILLER
PROFESSIONAL ENGINEER
PE-2014041301

REV.

EFFECTIVE: 07-01-2024

SIGNS						CONCRETE FOOTINGS EMBEDDED	STRUCTURAL STEEL POSTS *					PIPE POSTS *					BACKING BARS **				U-CHANNEL POST	PERFORATED SQUARE STEEL TUBE										BREAK-AWAY ASSEMBLY	REMARKS AND OTHER REQUIRED ITEMS
902 SIGNAL SIGNS TABULATED ON D-37A SHEET																						2 IN. POST						2.5 IN. POST						
																									ANCHORS						ANCHORS			
SIGN NO.	SIGN SIZE	STATION	HORZ CLEAR IF NOT STD	LOCATION	SIGN DTL. SHT. NO.	ITEM NO. 9031010	POST DES NO.	POST NO.1	POST NO.2	POST NO.3	LBS PER FT	TOTAL ITEM NO. 9031210	PIPE SIZE	POST NO.1	POST NO.2	LBS PER FT	TOTAL ITEM NO. 9031220	2" X 3/8" BARS @ 2.55 LBS PER FT NO. EACH	LGTH	TOTAL	TOTAL	ITEM NO. 9031250A	POST NO.1	POST NO.2	TOTAL ITEM NO. 9031270A	DRIVEN 12-GA. ITEM NO. 9031271A	DRIVEN 7-GA. ITEM NO. 9031273A	CONCRETE 7-GA. ITEM NO. 9031274	POST NO.1	POST NO.2	TOTAL ITEM NO. 9031280	2.25" INSERT (6 FT) ITEM NO. 9031272A	DRIVEN 7-GA. ITEM NO. 9031281A	CONCRETE 7-GA. ITEM NO. 9031285	ITEM NO. 9031241	
						CY		LF	LF	LF		LBS	IN.	LF	LF		LBS	EACH	IN.	LF	LBS	LF	LF	LF	LF	EA	EA	EA	LF	LF	LF	EA	EA	EA	EA	
121	ASSY.	1586+92		ROUTE 100																								12.00		12.00		1			
122	36"X36"	1591+38		ROUTE 100																		9.00		9.00			1							
123	ASSY.	1591+48		ROUTE 100																								12.00		12.00		1			
124	ASSY.	1587+35		ROUTE 100																								12.00		12.00		1			
125	36"X36"	1587+50		ROUTE 100																		9.00		9.00			1							
126	ASSY.	1591+69		ROUTE 100																								12.00		12.00		1			
127	108"X108"	1428+53		ROUTE 100		0.98	2	17.50	17.00		15.00	517.50																							
128	144"X96"	1441+96		ROUTE 100		1.01	2	17.00	16.00		15.00	495.00																							
129	108"X108"	1451+73		ROUTE 100		0.94	2	17.00	17.00		15.00	510.00																							
SUBTOTAL						2.93						1522.5												18	0		2		48	0	4		0	
TOTAL						3.00						1523									**			1009	87		14		616	1	52		9	

* BREAKAWAY ASSEMBLY IS INCIDENTAL FOR STRUCTURAL STEEL AND PIPE POSTS.
** BACKING BARS ARE TOTALED WITH STRUCTURAL STEEL OR PIPE POSTS.

ROUND PIPE POST AND FOOTING DATA TABLE

NOM. SIZE	WEIGHT		STUB LENGTH	FOOTING		CONCRETE
(IN.)	LBS/FT	LBS/IN		DIA.	DEPTH	C.Y.
2½	5.79	0.48	4'- 3½"	12"	4-6"	0.13
4	10.79	0.90	5'- 3½"	18"	5-6"	0.36

STRUCTURAL STEEL POST AND FOOTING DATA TABLE

POST DES. NO.	NOM. SIZE	POST WEIGHT LBS/FT	POST WEIGHT LBS/IN	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

STATE OF MISSOURI
KENDRA MILLER
NUMBER PE-2014041301
PROFESSIONAL ENGINEER

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

DATE PREPARED
3/28/2025

MO ROUTE	STATE
100	MO
DISTRICT	SHEET NO.
SL	267

COUNTY
ST. LOUIS

JOB NO.
J6P3274

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)

GBA
16305 SWINGLEY RIDGE RD
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GEORGE BUTLER
ASSOCIATES, INC.
PRO. ENGINEER 000133
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PRO. LAND SURVEYOR 000059

SIGNING SHEET: D-29

MO ROUTE 100
MANCHESTER ROAD

KENDRA MILLER
PROFESSIONAL ENGINEER
PE-2014041301

D-29

EFFECTIVE 10-01-2016

STANDARD SIGN ASSEMBLIES

SIGN NUMBER	STATION	LOCATION	TYPE	SIGN DESCRIPTION, SIZES & NUMBER OF EACH																
			SH	SH	SH	SH	SH	SH	SH	SHF	SHF	SHF								
			R1-2 48"TRI	SPEED LIMIT 40 R2-1 36"x48"	SPEED LIMIT 20 EXCEPT WHERE POSTED R2-5d 36"x48"	R3-2 24"x24"	RIGHT LANE MUST TURN RIGHT R3-7R 36"x36"	R6-1L 54"x18"	R6-1R 54"x18"	W9-1L 36"x36"	W11-2 36"x36"	W16-7P 30"x18"								
1	1418+43	EB ROUTE 100							1											
4	1419+78	EB ROUTE 100						1												
5	1420+26	EB ROUTE 100						1												
8	1434+89	EB ROUTE 100						1												
12	1435+15	EB ROUTE 100						1												
13	1437+29	EB ROUTE 100						1												
30	1450+99	EB ROUTE 100				1														
31	1455+39	EB ROUTE 100				1														
48	1455+54	WB ROUTE 100					1													
49	1460+96	WB ROUTE 100								1										
51	1478+26	WB ROUTE 100									1	1								
52	1479+41	WB ROUTE 100									1	1								
58	1491+98	ROUTE 100									1	1								
60	1493+01	ROUTE 100									1	1								
62	1486+61	ROUTE 100									1	1								
71	1503+11	ROUTE 100									1	1								
75	1503+98	ROUTE 100									1	1								
76	1502+92	ROUTE 100									1	1								
78	1503+97	ROUTE 100									1	1								
84	1519+24	ROUTE 100									1	1								
86	1520+24	ROUTE 100	1																	
87	1520+45	ROUTE 100									1	1								
89	1523+45	ROUTE 100									1	1								
90	1524+22	ROUTE 100									1	1								
92	1520+31	ROUTE 100									1	1								
94	1536+57	ROUTE 100									1	1								
95	1537+71	ROUTE 100	1																	
96	1537+92	ROUTE 100									1	1								
100	1533+74	ROUTE 100									1	1								
101	1536+99	ROUTE 100	1																	
102	1538+22	ROUTE 100									1	1								
107	1552+22	ROUTE 100									1	1								
112	1566+54	ROUTE 100		1	1															
114	1569+36	ROUTE 100									1	1								
120	1578+44	ROUTE 100									1	1								
121	1586+92	ROUTE 100									1	1								
123	1591+48	ROUTE 100									1	1								
124	1587+35	ROUTE 100									1	1								
126	1591+69	ROUTE 100									1	1								
		TOTAL	3	1	1	2	1	5	1	1	25	25								

SIGN SUMMARY

STANDARD SIGN OR SPECIAL SIGN NUMBER	SIGN DETAIL SHEET NO.	NO. EACH	SIZE, TYPE & SQUARE FEET				
			SIZE	FLAT SHEET SH ITEM NO. 9035004A	FLAT SHEET FLUORESCENT SHF * ITEM NO. 9035069A	STRUCTURAL ST ITEM NO. 9035011A	STRUCTURAL FLUORESCENT STF * ITEM NO. 9035071A
R1-2	STD	3	48"TRI	20.78			
R2-1	STD	1	36"X48"	12.00			
R2-5d	STD	1	36"X48"	12.00			
R3-2	STD	2	24"X24"	8.00			
R3-7R	STD	1	36"X36"	9.00			
R6-1L	STD	5	54"X18"	33.75			
R6-1R	STD	1	54"X18"	6.75			
W9-1L	STD	1	36"X36"		9.00		
W11-2	STD	25	36"X36"		225.00		
W16-7P (LEFT)	STD	25	30"X18"		93.75		
E1-1 BARRETT PKWY DR SOUTH	D-31	1	216"X72"			108.00	
E1-1 BARRETT PKWY DR NORTH	D-31	1	216"X72"			108.00	
I4-1 DES PERES CITY LIMIT	D-31	1	54"X24"	9.00			
I4-1 MANCHESTER CITY LIMIT	D-31	1	66"X24"	11.00			
D3-2 WESTMARK DR NEXT LEFT	D-31	1	108"X108"			63.00	18.00
D3-2 MANCHESTER RD 1/2 MILE	D-31	1	144"X96"			72.00	24.00
D3-2 POINTE DR NEXT LEFT	D-31	1	108"X108"			63.00	18.00
E1-1 MANCHESTER RD EXIT ONLY	D-31	1	144"X96"			66.00	30.00
TOTAL				123	328	480	90

* ORANGE, YELLOW & YELLOW/GREEN

SIGNING SHEET: D-30

MO ROUTE 100
MANCHESTER ROAD

D-30

STATE OF MISSOURI
KENDRA MILLER
NUMBER PE-2014041301
PROFESSIONAL ENGINEER

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

DATE PREPARED
3/28/2025

MO ROUTE	STATE
100	MO
DISTRICT	SHEET NO.
SL	268

COUNTY
ST. LOUIS

JOB NO.
J6P3274

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)

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PRO. ENGINEER 000133
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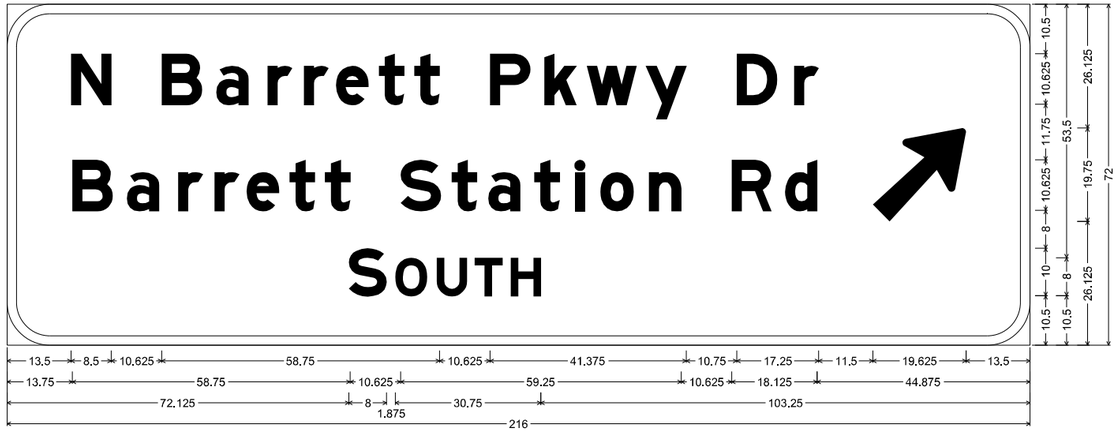
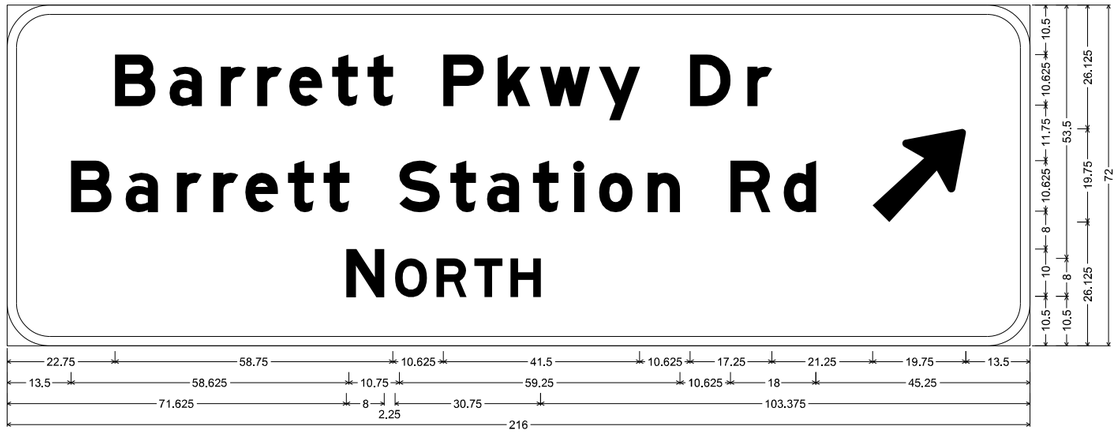
KENDRA MILLER
PROFESSIONAL ENGINEER
PE-2014041301



SIGN NO.	A
STATION	1493+38
ROADWAY	WB ROUTE 100

E1-1 ST-STRUCTURAL;
9.000" Radius, 2.000" Border, White on, Green;
"N Barrett Pkwy Dr", E Mod; "Barrett Station Rd", E Mod; "SOUTH", E Mod; Arrow 80 - 25.000" 45';
Table of letter and object lefts

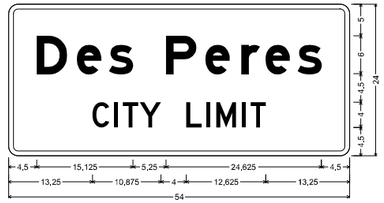
N	B	a	r	r	e	t	t	P	k	w	y	D	r	⇗	
13.500	32.625	44.125	55.000	62.625	69.500	78.500	86.000	102.000	113.500	122.375	134.875	154.125	166.125	182.875	
B	a	r	r	e	t	t	S	t	a	t	i	o	n	R	d
13.750	25.250	36.125	43.875	50.625	59.625	67.125	83.125	93.875	101.625	111.375	120.000	125.250	135.500	153.000	164.250
S	O	U	T	H											
72.125	82.000	90.750	98.750	106.375											



SIGN NO.	B
STATION	1494+22
ROADWAY	EB ROUTE 100

E1-1 ST-STRUCTURAL;
9.000" Radius, 2.000" Border, White on, Green;
"Barrett Pkwy Dr", E Mod; "Barrett Station Rd", E Mod; "NORTH", E Mod; Arrow 80 - 25.000" 45';
Table of letter and object lefts

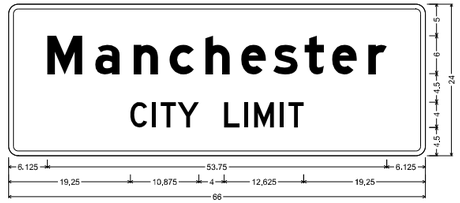
B	a	r	r	e	t	t	P	k	w	y	D	r	⇗	
22.750	34.250	45.125	52.875	59.625	68.625	76.125	92.125	103.625	112.500	125.000	144.250	156.375	182.750	
B	a	r	r	e	t	t	S	t	a	t	i	o	n	R	d
13.500	25.000	35.875	43.500	50.250	59.375	66.875	82.875	93.625	101.375	111.000	119.750	125.000	135.250	152.750	164.000
N	O	R	T	H										
71.625	81.875	90.625	98.750	106.250										



SIGN NO.	50
STATION	1481+80
ROADWAY	EB ROUTE 100

E1-1 SH-FLAT SHEET;
1.500" Radius, 0.750" Border, White on, Green;
"Des Peres", E Mod; "CITY LIMIT", D;
Table of letter and object lefts

D	e	s	P	e	r	e	s		
4,500	10,750	15,875	24,875	31,125	36,875	40,625	45,750		
C	I	T	Y	L	I	M	I	T	
13.250	16.750	18.125	20.750	28.125	31.375	32.875	36.875	38.250	



SIGN NO.	112
STATION	1566+54
ROADWAY	ROUTE 100

E1-1 SH-FLAT SHEET;
1.500" Radius, 0.750" Border, White on, Green;
"Manchester", E Mod; "CITY LIMIT", D;
Table of letter and object lefts

M	a	n	c	h	e	s	t	e	r	
6,125	13,750	19,875	25,500	31,125	36,875	41,875	46,875	51,250	57,000	
C	I	T	Y	L	I	M	I	T		
19,250	22,750	24,125	26,750	34,125	37,375	38,875	42,875	44,250		

KENDRA MILLER
STATE OF MISSOURI
NUMBER PE-2014041301
PROFESSIONAL ENGINEER

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

DATE PREPARED
3/28/2025

MO ROUTE	STATE
100	MO
DISTRICT	SHEET NO.
SL	269

COUNTY
ST. LOUIS

JOB NO.
J6P3274

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)

GBA
16305 SWINGLEY RIDGE RD
ST. 300
CHESTERFIELD, MO 63017
314.231.0100
GBAteam.com

GEORGE BUTLER
ASSOCIATES, INC.
PRO. ENGINEER 000133
ARCHITECT 000212
PRO. LAND SURVEYOR 000059

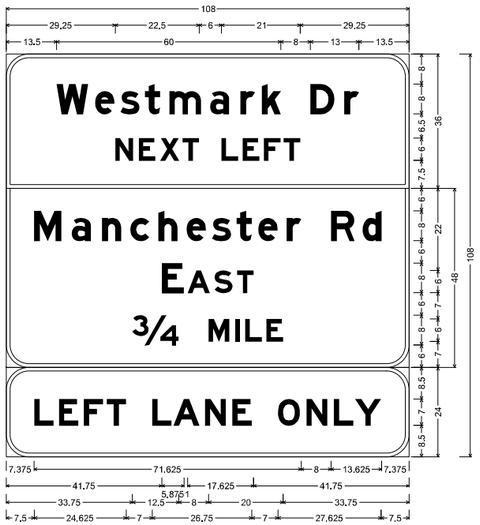
SIGNING SHEET: D-31

MO ROUTE 100
MANCHESTER ROAD

D-31

KENDRA MILLER
PROFESSIONAL
ENGINEER
PE-2014041301

REV.



D3-2 ST-STRUCTURAL;

6.000" Radius, 1.000" Border, White on, Green;
"Westmark Dr", E Mod; "NEXT LEFT", E Mod;

6.000" Radius, 1.000" Border, White on, Green;
"Manchester Rd", E Mod; "EAST", E Mod; "3/4", E Mod; "MILE", E Mod;

STF-STRUCTURAL FLUORESCENT;
6.000" Radius, 1.000" Border, Black on, Yellow;
"LEFT LANE ONLY", E Mod;
Table of letter and object lefts

W 13.500	e 23.750	s 30.500	t 37.250	m 43.750	a 54.625	r 62.750	k 68.500	D 81.500	r 90.625		
N 29.250	E 35.500	X 41.250	T 47.250	L 57.750	E 63.375	F 69.125	T 74.375				
M 7.375	a 17.500	n 25.625	c 33.250	h 40.750	e 48.375	s 55.125	t 61.750	e 67.500	r 75.125	R 87.000	d 95.500
E 41.750	A 48.625	S 55.875	T 61.875								
3/4 33.750	M 54.250	I 61.250	L 64.000	E 69.750							
L 7.500	E 14.125	F 20.750	T 26.875	L 39.125	A 44.750	N 53.250	E 60.625	O 72.875	N 80.500	L 87.875	Y 93.500

SIGN NO.	127
STATION	1428+53
ROADWAY	WB ROUTE 100

D3-2 ST-STRUCTURAL;

6.000" Radius, 1.000" Border, White on, Green;
"Pointe Dr", E Mod; "NEXT LEFT", E Mod;

6.000" Radius, 1.000" Border, White on, Green;
"Manchester Rd", E Mod; "EAST", E Mod; "1/4", E Mod; "MILE", E Mod;
Table of letter and object lefts

P 24.125	o 32.375	l 40.125	n 44.625	t 52.000	e 57.875	D 70.875	r 80.000				
N 29.250	E 35.500	X 41.250	T 47.250	L 57.750	E 63.375	F 69.125	T 74.375				
M 7.375	a 17.500	n 25.625	c 33.250	h 40.750	e 48.375	s 55.125	t 61.750	e 67.500	r 75.125	R 87.000	d 95.500
E 41.750	A 48.625	S 55.875	T 61.875								
1/4 34.750	M 53.250	I 60.375	L 63.125	E 68.750							
L 7.500	E 14.125	F 20.750	T 26.875	L 39.125	A 44.750	N 53.250	E 60.625	O 72.875	N 80.500	L 87.875	Y 93.500

STF-STRUCTURAL FLUORESCENT;
6.000" Radius, 1.000" Border, Black on, Yellow;
"LEFT LANE ONLY", E Mod;

SIGN NO.	129
STATION	1451+73
ROADWAY	WB ROUTE 100

D3-2 ST-STRUCTURAL;

9.000" Radius, 2.000" Border, White on, Green;
"Manchester Rd", E Mod; "EAST", E Mod; "1/2", E Mod; "MILE", E Mod;
Table of letter and object lefts

M 9.875	a 23.375	n 34.250	c 44.250	h 54.375	e 64.500	s 73.500	t 82.375	e 90.000	r 100.250	R 116.125	d 127.375
E 55.875	A 64.500	S 74.125	T 82.250								
1/2 46.750	M 70.625	I 80.125	L 83.750	E 91.375							
L 18.875	E 26.375	F 34.000	T 41.000	L 55.000	A 61.500	N 71.125	E 79.625	O 93.500	N 102.250	L 110.625	Y 117.125

STF-STRUCTURAL FLUORESCENT;
6.000" Radius, 1.000" Border, Black on, Yellow;
"LEFT LANE ONLY", E Mod;
Table of letter and object lefts

SIGN NO.	128
STATION	1441+96
ROADWAY	WB ROUTE 100

E1-1 ST-STRUCTURAL;

9.000" Radius, 2.000" Border, White on, Green;
"Manchester Rd", E Mod; "EAST", E Mod;
Table of letter and object lefts

M 9.875	a 23.375	n 34.250	c 44.250	h 54.375	e 64.500	s 73.500	t 82.375	e 90.000	r 100.250	R 116.125	d 127.375
E 55.875	A 64.500	S 74.125	T 82.250								
E 23.625	X 31.250	I 39.875	T 43.125	59.000	O 88.750	N 97.375	L 105.875	Y 112.375			

STF-STRUCTURAL FLUORESCENT;
9.000" Radius, 2.000" Border, Black on, Yellow;
"EXIT", E Mod; Arrow 80 - 25.000° 135°; "ONLY", E Mod;

SIGN NO.	130
STATION	1465+39
ROADWAY	WB ROUTE 100

STATE OF MISSOURI
KENDRA MILLER
NUMBER PE-2014041301
PROFESSIONAL ENGINEER

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

DATE PREPARED
3/28/2025

MO ROUTE	STATE
100	MO
DISTRICT	SHEET NO.
SL	270

COUNTY
ST. LOUIS

JOB NO.
J6P3274

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)

GBA
16305 SWINGLEY RIDGE RD
ST. 300
CHESTERFIELD, MO 63017
314.231.0100
GBAteam.com

GEORGE BUTLER
ASSOCIATES, INC.
PRO. ENGINEER 000133
ARCHITECT 000212
PRO. LAND SURVEYOR 000059

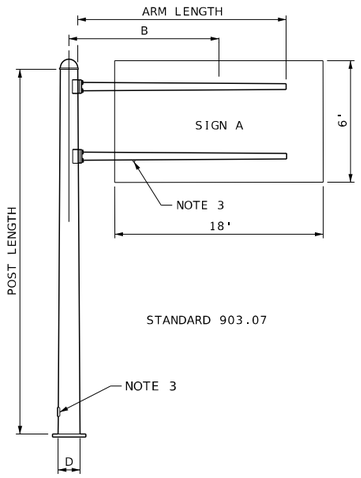
SIGNING SHEET: D-31

MO ROUTE 100
MANCHESTER ROAD

D-31

KENDRA MILLER
PROFESSIONAL
ENGINEER
PE-2014041301

REV.



STANDARD 903.07

TWO TUBE - TYPE C

TUBULAR STEEL SUPPORT NUMBERING SYSTEM

THE FIRST SYMBOL (LETTER) INDICATES TYPE AS, C FOR CANTILEVER, B FOR BUTTERFLY, S FOR SPAN TYPE.

THE SECOND SYMBOL (NUMBER) INDICATES SINGLE (1) OR DOUBLE (2) MAST ARMS OR TRUSS.

THE THIRD SYMBOL (NUMBER) INDICATES GAGE - POST
7 = 7 GAUGE (.1793") 77 = 7 + 7 GAUGE (.3586")
3 = 3 GAUGE (.2500") 33 = 3 + 3 GAUGE (.5000")
0 = 0 GAUGE (.3125") 00 = 0 + 0 GAUGE (.6250")

THE FOURTH SYMBOL (NUMBER) INDICATES DIAMETER IN INCHES OF THE POST BASE.

THE FIFTH SYMBOL (NUMBER) INDICATES LENGTH IN FEET OF ARM OR SPAN.

EXAMPLE: DESIGN NUMBER B-20018-24 INDICATES BUTTERFLY TYPE, TWO ARMS, 2-PLY, O-GAUGE, 18" DIAMETER AT BASE OF POST & 24' MAST ARMS.

NOTES

1. ALL POSTS, BEAMS, MAST ARMS, ANGLES, BRACKETS & ETC. SHALL BE HOT DIP GALVANIZED AFTER FABRICATION.
2. SHOP DRAWINGS ARE NOT REQUIRED.
3. HANDHOLES AND 1¼" BLIND HALF COUPLINGS REQUIRED ON DESIGNATED POSTS. HANDHOLES SHALL BE PLACED ON RIGHT HAND SHOULDER SIDE OF TRUSSES.
4. STRUCTURES DESIGNED FOR TOTAL SIGN AREA COMMENSURATE WITH HEIGHT OF SIGN AND REQUIRED VERTICAL CEARANCE.
5. DESIGN SPECIFICATIONS: AASHTO STANDARD SPECIFICATIONS FOR STRUCTURAL SUPPORTS FOR HIGHWAY SIGNS, LUMINAIRES, AND TRAFFIC SIGNALS - 1985.

TUBULAR STEEL SUPPORT DESIGN DATA STANDARDS 903.05 THRU 903.08

SIGN NUMBER	STATION	LOCATION	STANDARD NUMBER	TYPE	SPAN OR ARM	B LENGTH	POST LENGTH NO. 1	POST LENGTH NO. 2	CONCRETE FOOTINGS	SIGN DATA: SPREAD	SIGN A L	SIGN A H	SPACE	SIGN B L	SIGN B H	SPACE	SIGN C L	SIGN C H	SPACE	SIGN D L	SIGN D H	SPACE	SIGN E L	SIGN E H	SPACE	TOTAL
					FT-IN.	FT-IN.	FT	FT	CU YDS	FT-IN.	FT-IN.	FT-IN.	FT-IN.	FT-IN.	FT-IN.	FT-IN.	FT-IN.	FT-IN.	FT-IN.	FT-IN.	FT-IN.	FT-IN.	FT-IN.	FT-IN.	FT-IN.	SQ FT
A	1477+46	WB ROUTE 100	2018	C	28	24'	19'		5.02		18'	6'														108
B	1494+22	EB ROUTE 100	2018	C	28	21'	22'		4.88		18'	6'														108

STATE OF MISSOURI
KENDRA MILLER
NUMBER PE-2014041301
PROFESSIONAL ENGINEER

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

DATE PREPARED 3/28/2025

MO ROUTE	STATE
100	MO
DISTRICT	SHEET NO.
SL	271

COUNTY ST. LOUIS

JOB NO. J6P3274

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)

GBA
16305 SWINGLEY RIDGE RD
ST. 300
CHESTERFIELD, MO 63017
314.231.0100
GBAteam.com

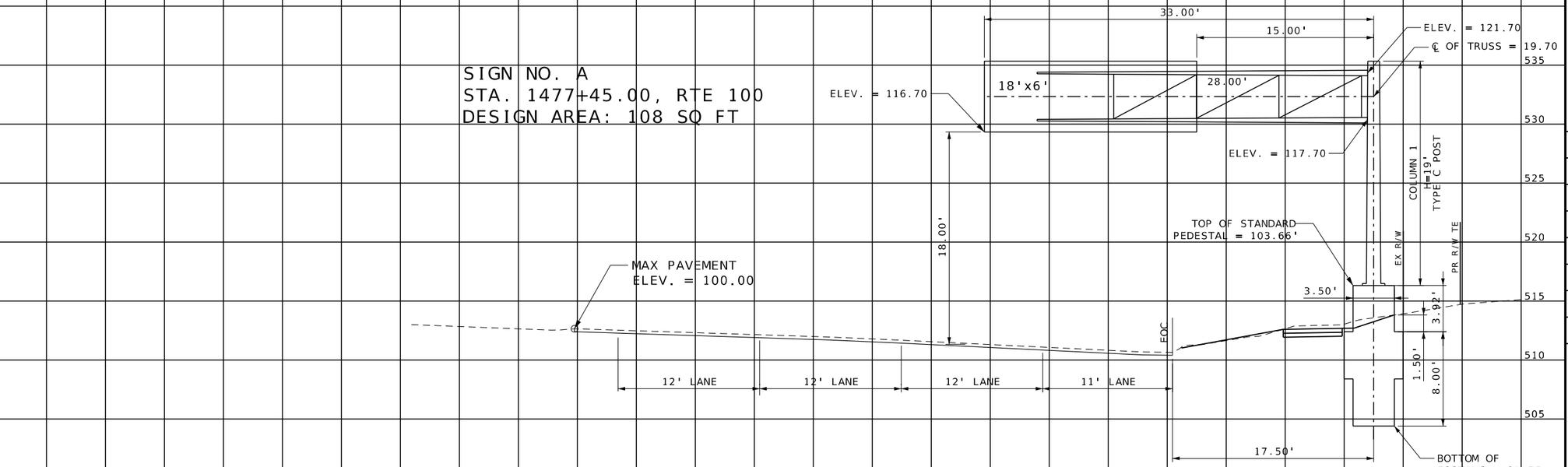
GEORGE BUTLER ASSOCIATES, INC.
PRO. ENGINEER 000133
ARCHITECT 000212
PRO. LAND SURVEYOR 000059

KENDRA MILLER
PROFESSIONAL ENGINEER
PE-2014041301

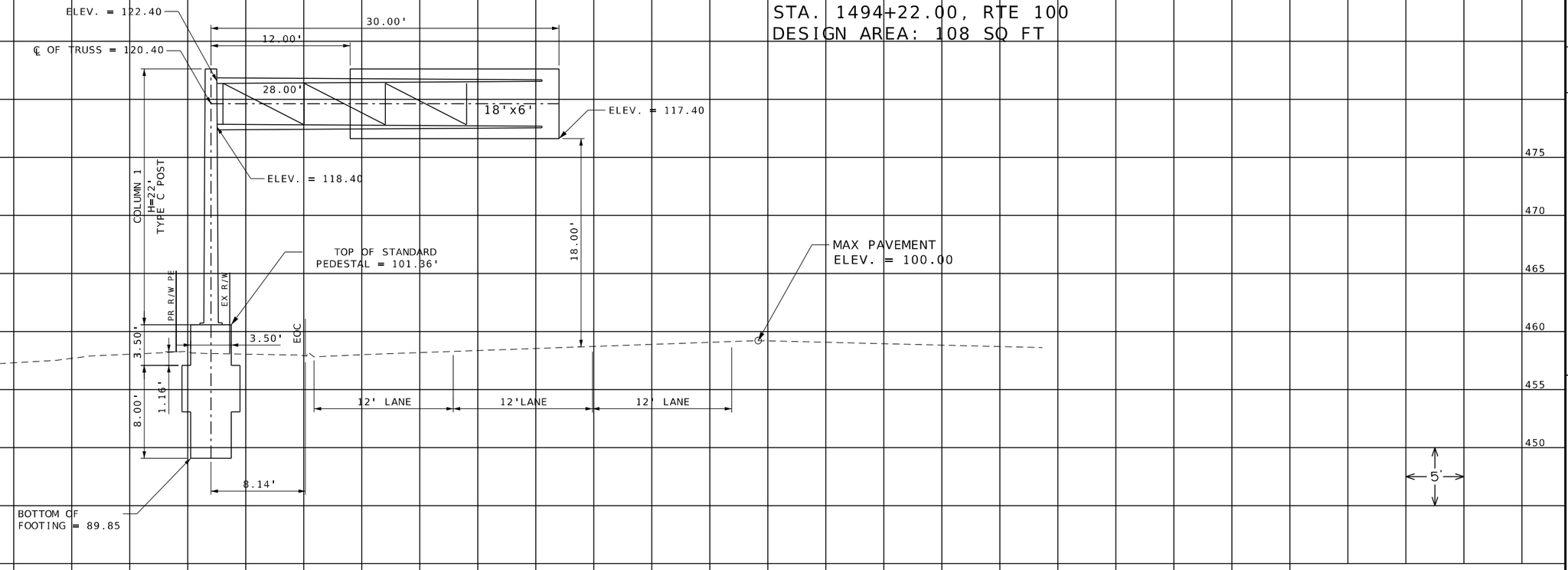
REV.

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

SIGN NO. A
STA. 1477+45.00, RTE 100
DESIGN AREA: 108 SQ FT



SIGN NO. B
STA. 1494+22.00, RTE 100
DESIGN AREA: 108 SQ FT



SHEET 1 OF 1

SIGN SECTIONS

MO ROUTE 100
MANCHESTER ROAD

STATE OF MISSOURI
KENDRA MILLER
NUMBER PE-2014041301
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	3/28/2025
MO ROUTE	100
STATE	MO
DISTRICT	SL
SHEET NO.	272
COUNTY	ST. LOUIS
JOB NO.	J6P3274
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	

DESCRIPTION | DATE

REV.

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

GBA
16305 SWINGLEY RIDGE RD
ST. 300
CHESTERFIELD, MO 63017
314.231.0100
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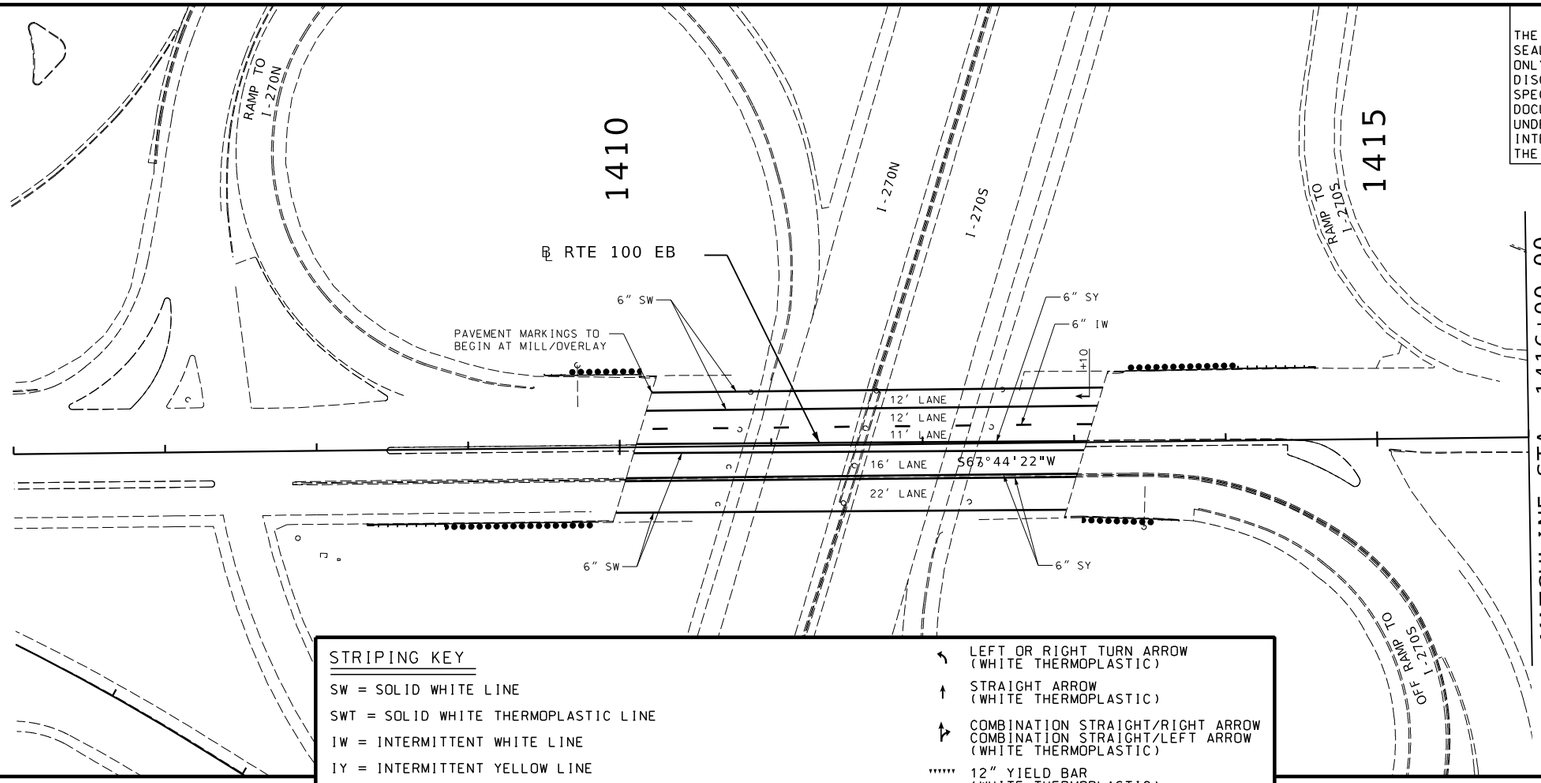
GEORGE BUTLER
ASSOCIATES, INC.
PRO. ENGINEER 000133
ARCHITECT 000212
PRO. LAND SURVEYOR 000059

KENDRA MILLER
PROFESSIONAL
ENGINEER
PE-2014041301

SCALE

0 50 100 150



STRIPING KEY

SW = SOLID WHITE LINE

SWT = SOLID WHITE THERMOPLASTIC LINE

IW = INTERMITTENT WHITE LINE

IY = INTERMITTENT YELLOW LINE

DW = DOTTED WHITE LINE (3 FT. LINE, 9 FT. GAPS)

DWT = DOTTED WHITE THERMOPLASTIC LINE (2 FT. LINE, 4 FT. GAPS)

SY = SOLID YELLOW LINE

SYT = SOLID YELLOW THERMOPLASTIC LINE

DSY = DOUBLE SOLID YELLOW LINE

LEFT OR RIGHT TURN ARROW (WHITE THERMOPLASTIC)

STRAIGHT ARROW (WHITE THERMOPLASTIC)

COMBINATION STRAIGHT/RIGHT ARROW
COMBINATION STRAIGHT/LEFT ARROW
(WHITE THERMOPLASTIC)

12" YIELD BAR (WHITE THERMOPLASTIC)

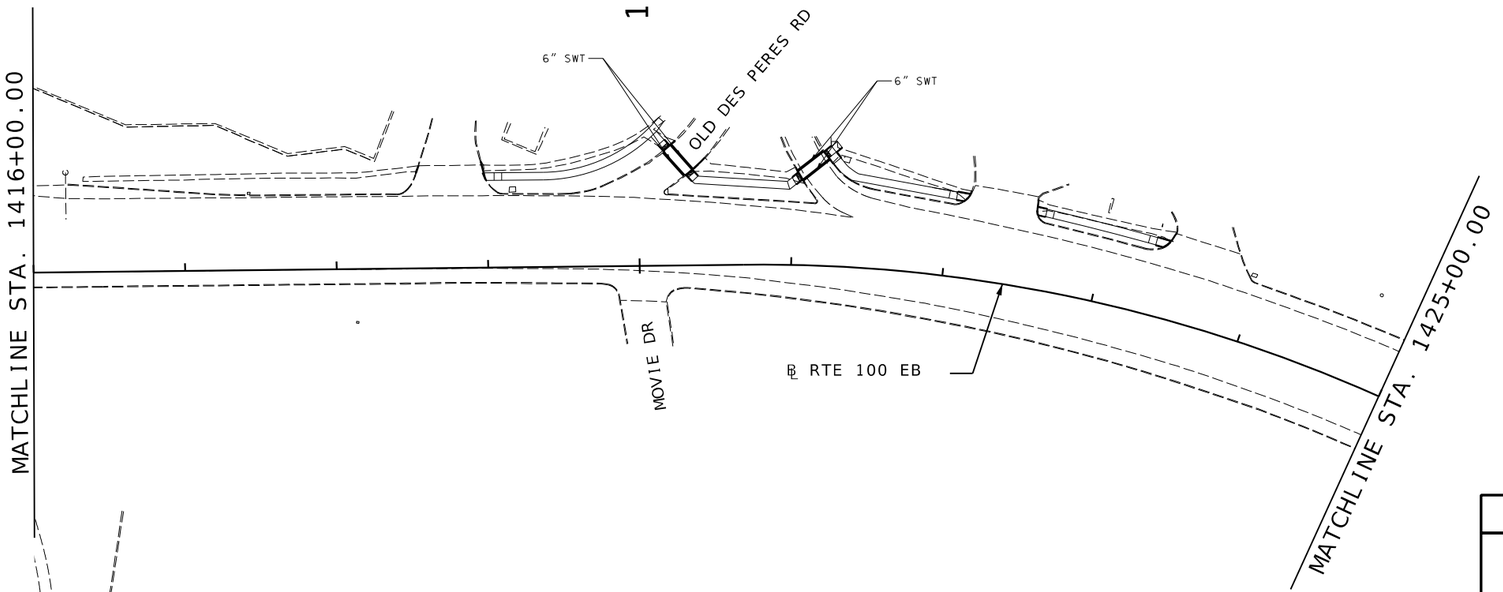
BIKE LANE ARROW (WHITE THERMOPLASTIC)

ONLY LETTERING (WHITE THERMOPLASTIC)

30" X 6' CONTINENTAL CROSSWALK (WHITE THERMOPLASTIC)

SCALE

0 50 100 150



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STATE OF MISSOURI
KENDRA MILLER
NUMBER PE-2014041301
PROFESSIONAL ENGINEER

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

DATE PREPARED: 3/28/2025

MO ROUTE	STATE
100	MO
DISTRICT	SHEET NO.
SL	273

COUNTY: ST. LOUIS

JOB NO.: J6P3274

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)

GBA
16305 SWINGLEY RIDGE RD
ST. 300
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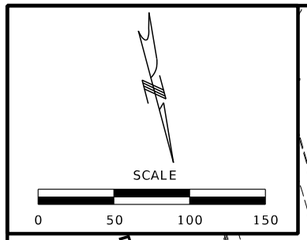
GEORGE BUTLER ASSOCIATES, INC.
PRO. ENGINEER 000133
ARCHITECT 000212
PRO. LAND SURVEYOR 000059

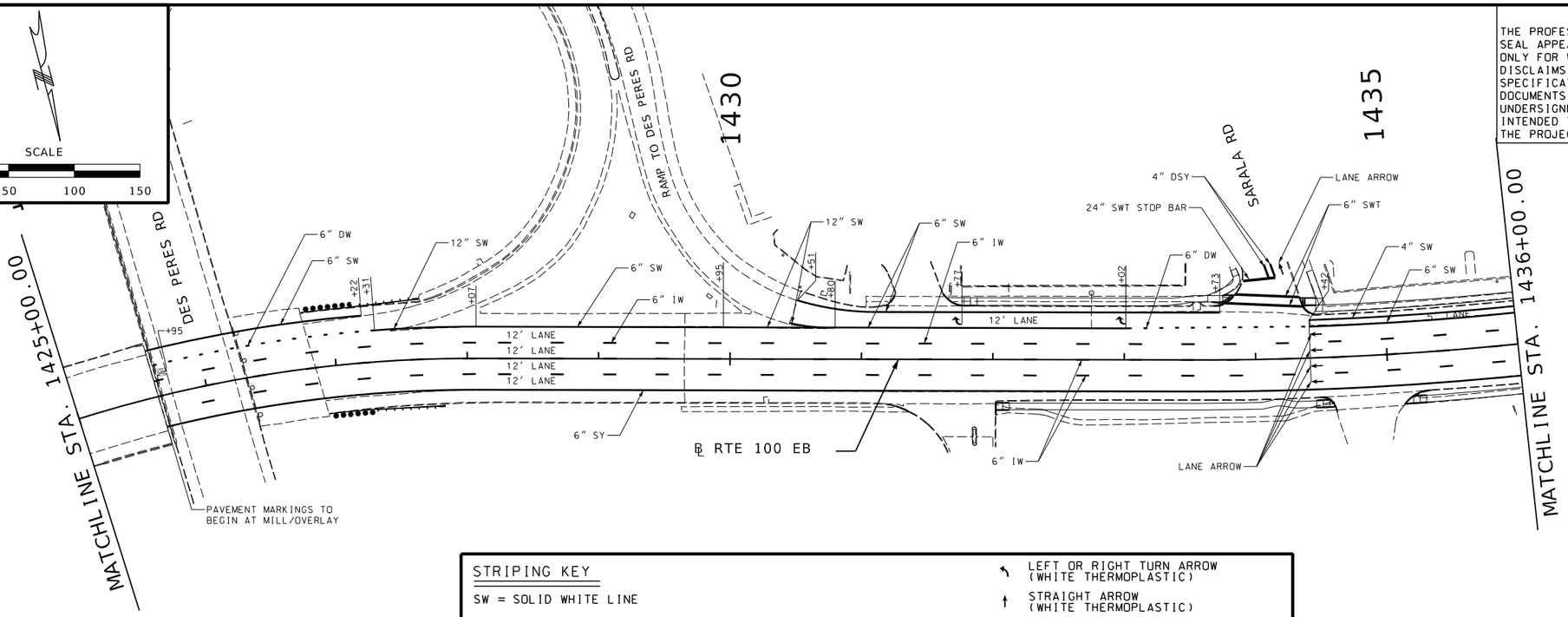
KENDRA MILLER
PROFESSIONAL ENGINEER
PE-2014041301

SHEET 1 OF 14

PAVEMENT MARKING SHEET

MO ROUTE 100
MANCHESTER ROAD





STRIPING KEY

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DW = DOTTED WHITE LINE (3 FT. LINE, 9 FT. GAPS)

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SY = SOLID YELLOW LINE

SYT = SOLID YELLOW THERMOPLASTIC LINE

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LEFT OR RIGHT TURN ARROW (WHITE THERMOPLASTIC)

STRAIGHT ARROW (WHITE THERMOPLASTIC)

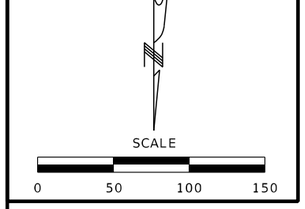
COMBINATION STRAIGHT/RIGHT ARROW
COMBINATION STRAIGHT/LEFT ARROW
(WHITE THERMOPLASTIC)

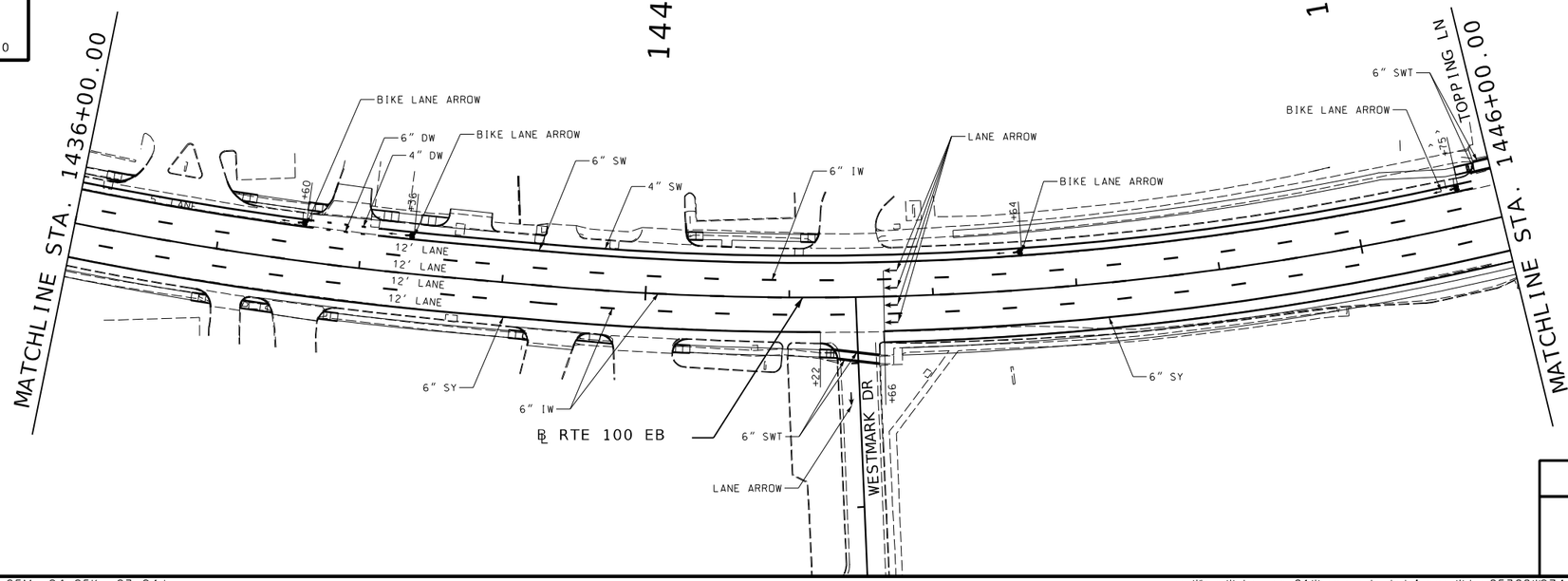
12" YIELD BAR (WHITE THERMOPLASTIC)

BIKE LANE ARROW (WHITE THERMOPLASTIC)

ONLY LETTERING (WHITE THERMOPLASTIC)

30" X 6' CONTINENTAL CROSSWALK (WHITE THERMOPLASTIC)





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STATE OF MISSOURI
KENDRA MILLER
NUMBER PE-2014041301
PROFESSIONAL ENGINEER

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

DATE PREPARED
3/28/2025

MO ROUTE	STATE
100	MO
DISTRICT	SHEET NO.
SL	274

COUNTY
ST. LOUIS

JOB NO.
J6P3274

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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ARCHITECT 000212
PRO. LAND SURVEYOR 000059

SHEET 2 OF 14

PAVEMENT MARKING SHEET

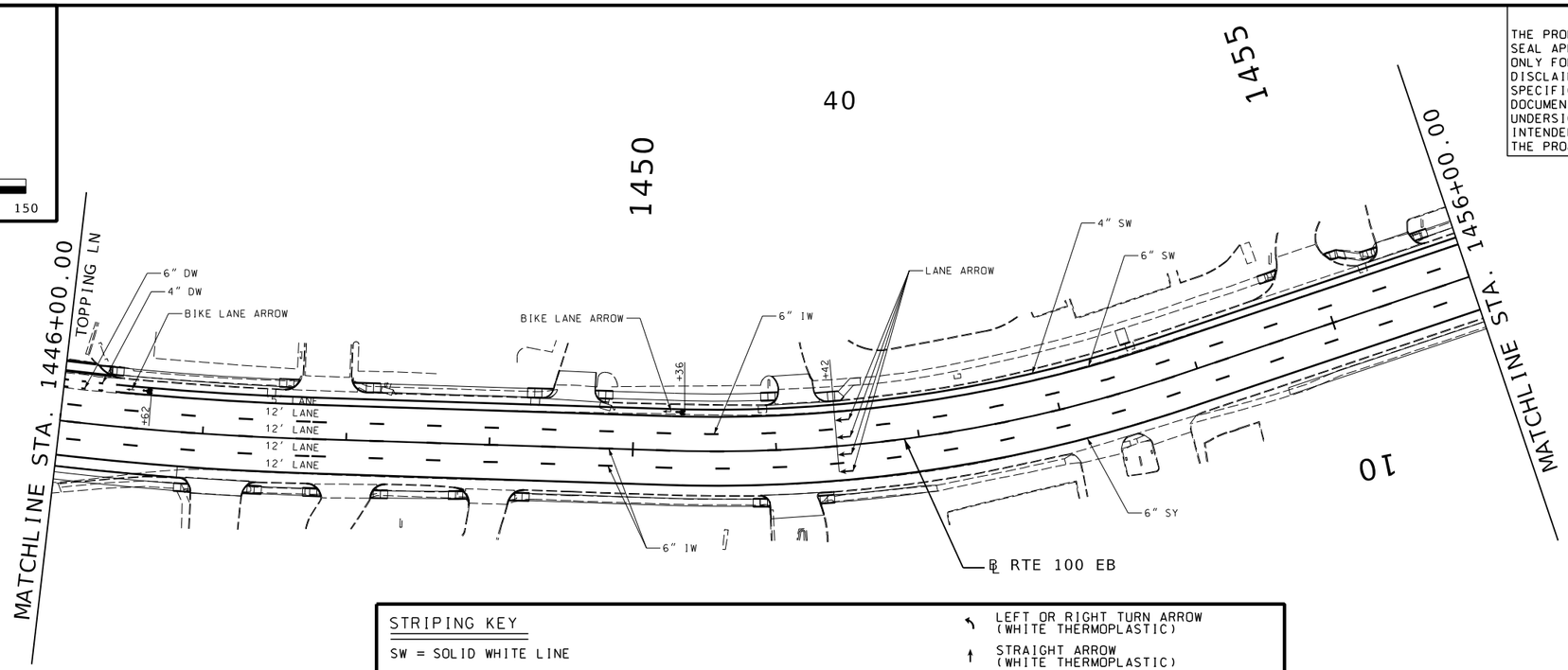
MO ROUTE 100
MANCHESTER ROAD

KENDRA MILLER
PROFESSIONAL ENGINEER
PE-2014041301

REV.

SCALE

0 50 100 150



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ONLY LETTERING (WHITE THERMOPLASTIC)
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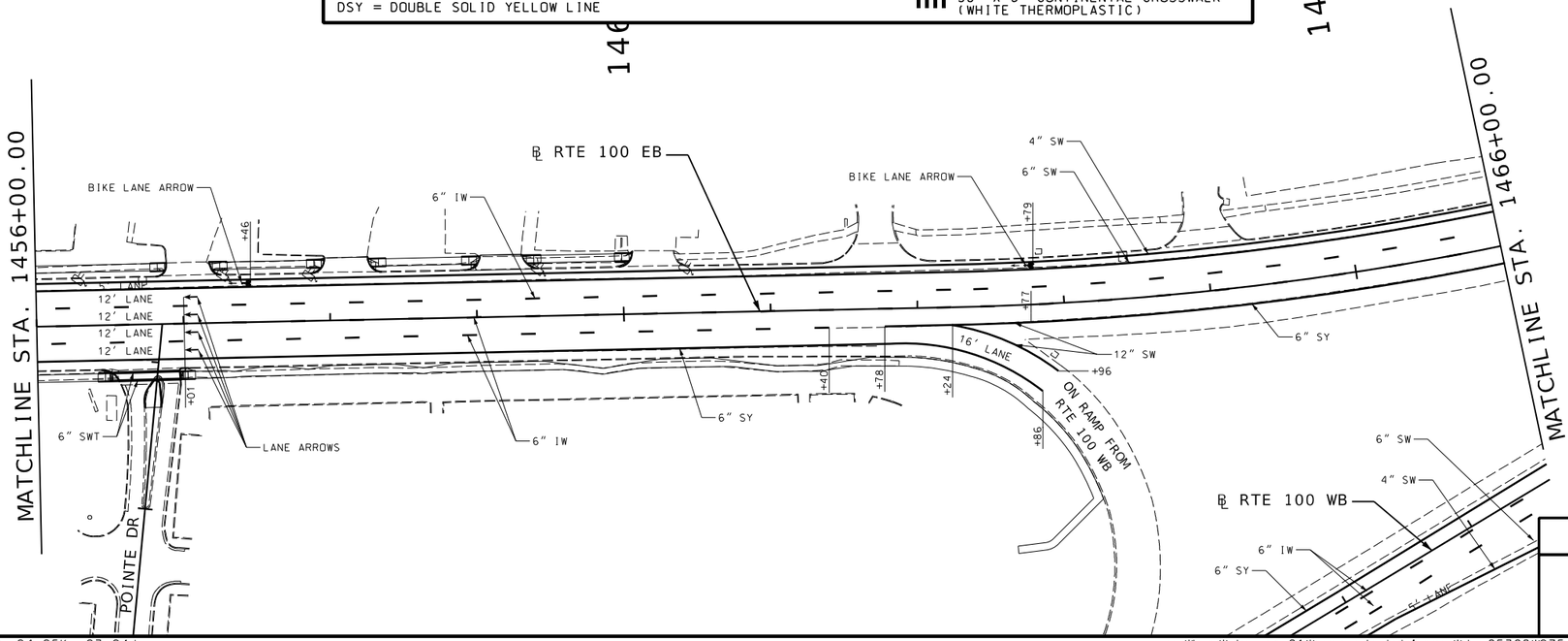

SHEET 3 OF 14

PAVEMENT MARKING SHEET

MO ROUTE 100
MANCHESTER ROAD

STATE OF MISSOURI
KENDRA MILLER
NUMBER PE-2014041301
PROFESSIONAL ENGINEER

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

DATE PREPARED
3/28/2025

MO ROUTE	STATE
100	MO
DISTRICT	SHEET NO.
SL	275

COUNTY
ST. LOUIS

JOB NO.
J6P3274

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DATE	DESCRIPTION

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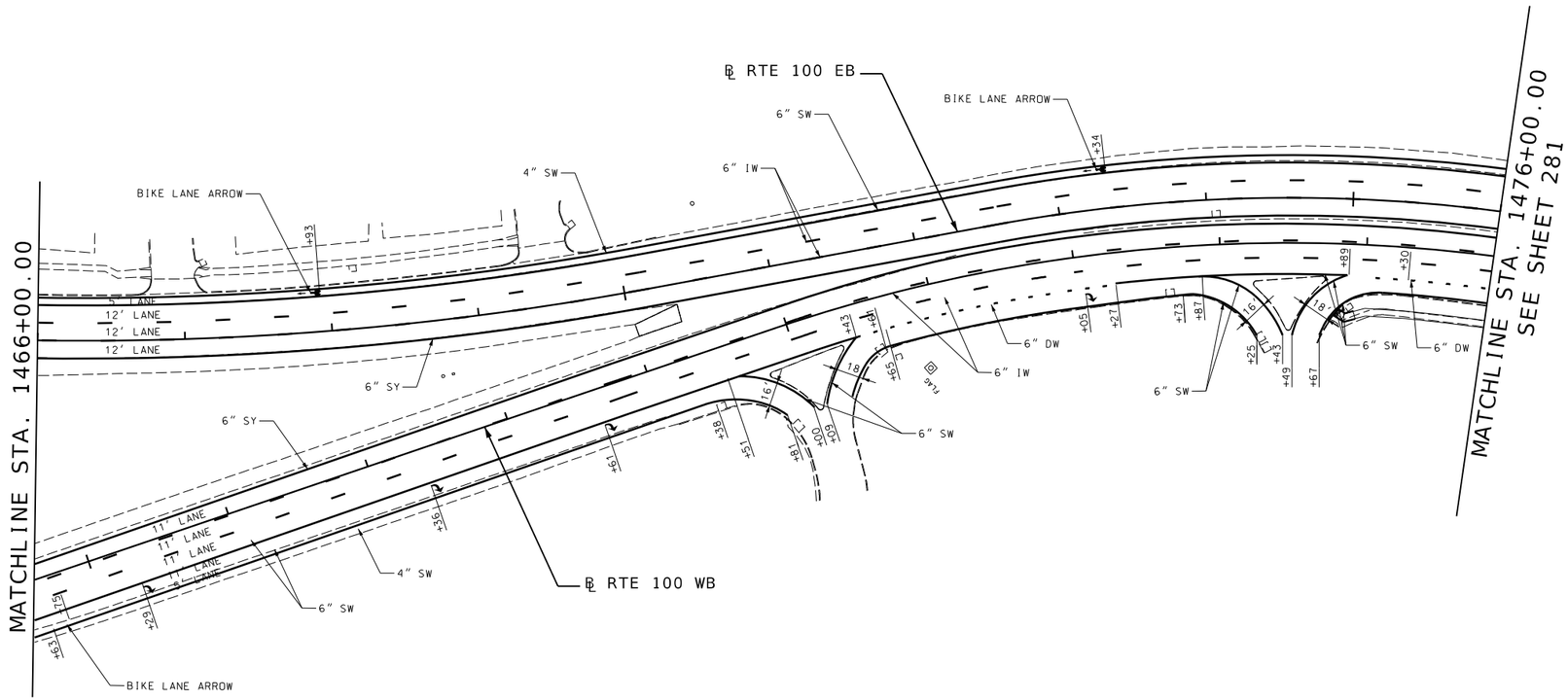

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NUMBER PE-2014041301
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100	MO
DISTRICT	SHEET NO.
SL	276

COUNTY: ST. LOUIS

JOB NO.: J6P3274

CONTRACT ID.:

PROJECT NO.:

BRIDGE NO.:

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SHEET 4 OF 14

PAVEMENT MARKING SHEET

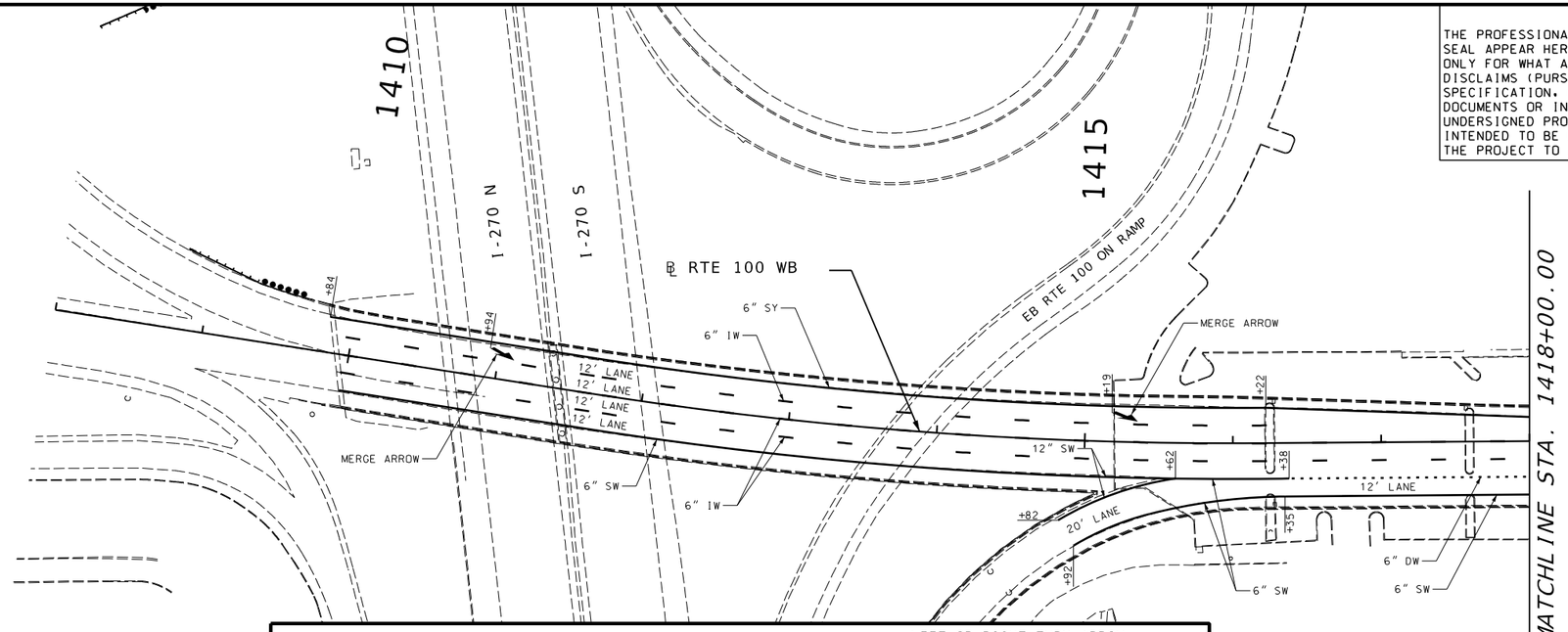
MO ROUTE 100
MANCHESTER ROAD

KENDRA MILLER
PROFESSIONAL ENGINEER
PE-2014041301

REV.

SCALE

0 50 100 150



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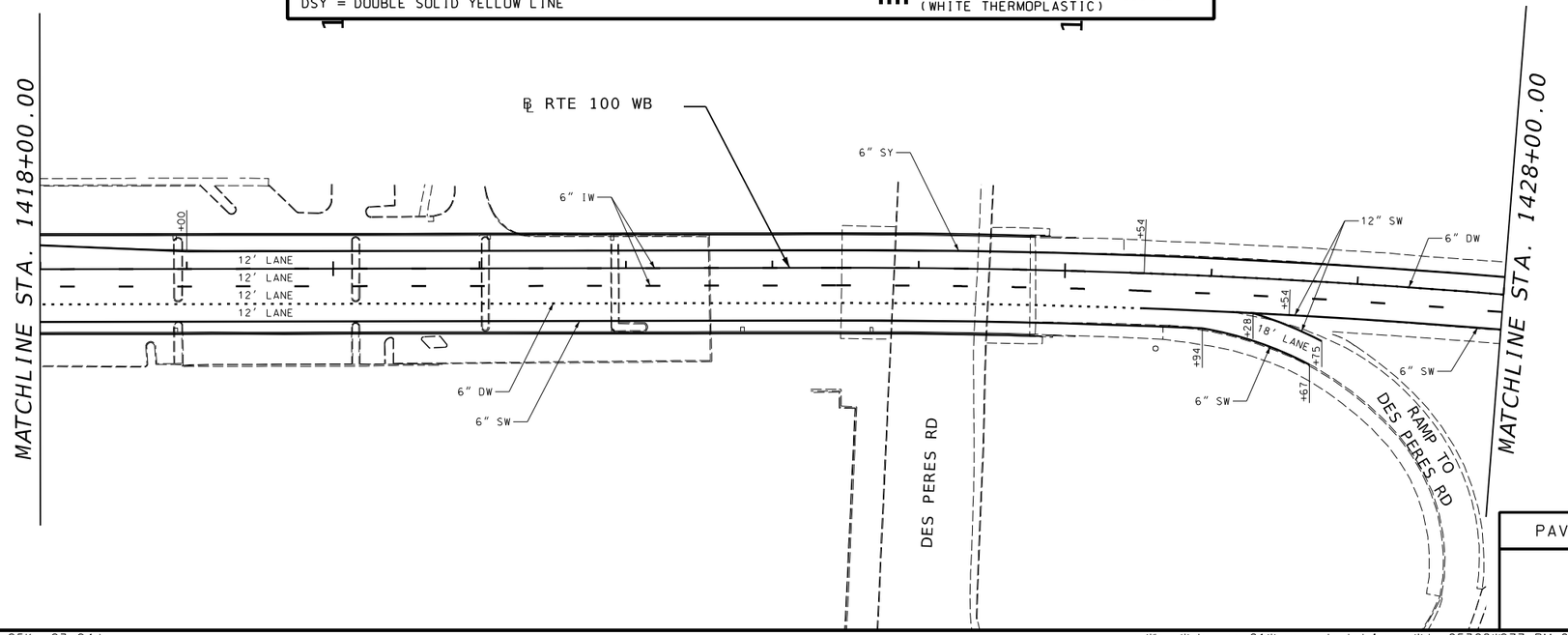

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KENDRA MILLER
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DATE PREPARED: 3/28/2025

MO ROUTE	STATE
100	MO
DISTRICT	SHEET NO.
SL	277

COUNTY: ST. LOUIS

JOB NO.: J6P3274

CONTRACT ID.:

PROJECT NO.:

BRIDGE NO.:

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SHEET 5 OF 14

PAVEMENT MARKING SHEET

MO ROUTE 100
MANCHESTER ROAD

KENDRA MILLER
PROFESSIONAL ENGINEER
PE-2014041301

REV.

XXMSD-XXXXX, BASEMAPS 25-26N, 25M, 24-25K, 23-24J

c:*dms*gba-pw-01*regan hutchinson*dms05308*277_PM_05_J6P3274_i50_WB100.dgn

3/28/2025

SCALE

0 50 100 150

1430

1435

MATCHLINE STA. 1428+00.00

℄ RTE 100 WB

6" IW

6" SY

6" DW

SIGN

LANE ARROW

+68

+54

+83

+93

WESTMARK DR

6" SY

6" DW

12' LANE

12' LANE

12' LANE

11' LANE

+66

+66

+69

+94

+94

+43

+19

6" SW

6" SW

6" DW

6" SW

12" SW

RAMP FROM DES PERES RD

MATCHLINE STA. 1438+00.00

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SCALE

0 50 100 150

1440

MATCHLINE STA. 1438+00.00

WESTMARK DR

℄ RTE 100 WB

LANE ARROW

MATCHLINE STA. 1448+00.00

6" SY

6" DW

6" IW

6" SW

12' LANE

12' LANE

12' LANE

11' LANE

+37

+64

+52

+66

+33

+24

+10

+88

+02

+54

+80

+36

+99

+49

6" DW

6" SW

6" SW

TOPPING RD

24" SW CHEVRONS @ 15' SPACING

SHEET 6 OF 14

PAVEMENT MARKING SHEET

MO ROUTE 100
MANCHESTER ROAD

DATE PREPARED
3/28/2025

MO ROUTE	STATE
100	MO
DISTRICT	SHEET NO.
SL	278

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ST. LOUIS

JOB NO.
J6P3274

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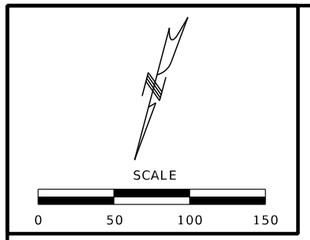

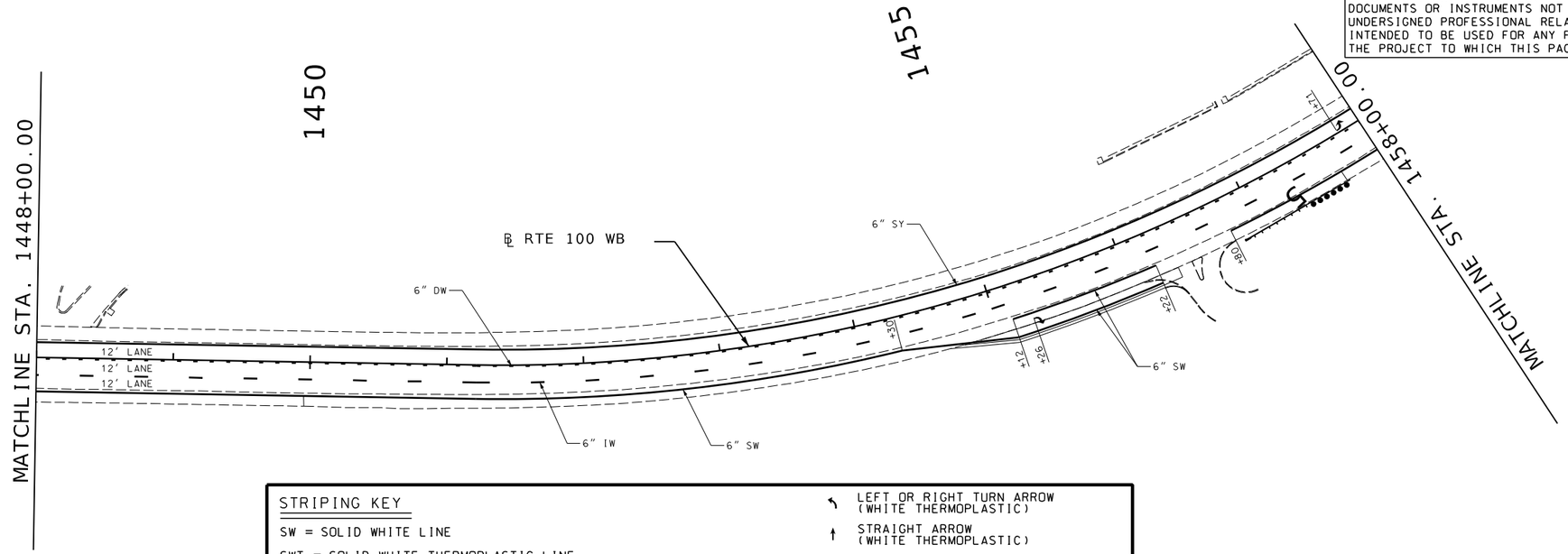

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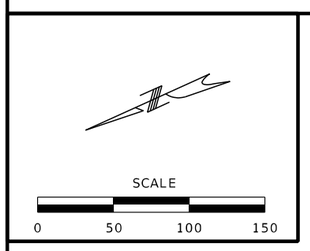

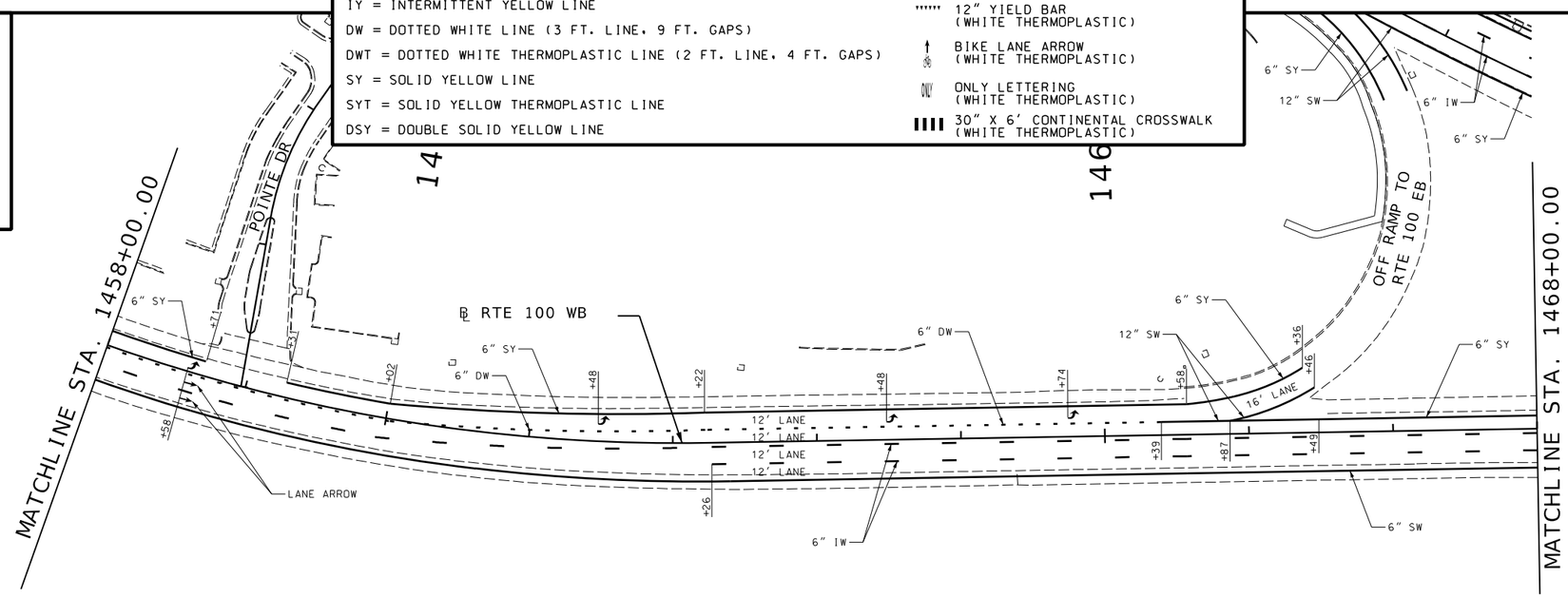

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PROFESSIONAL ENGINEER

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100	MO
DISTRICT	SHEET NO.
SL	279

COUNTY
ST. LOUIS

JOB NO.
J6P3274

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PROJECT NO.

BRIDGE NO.

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SHEET 7 OF 14

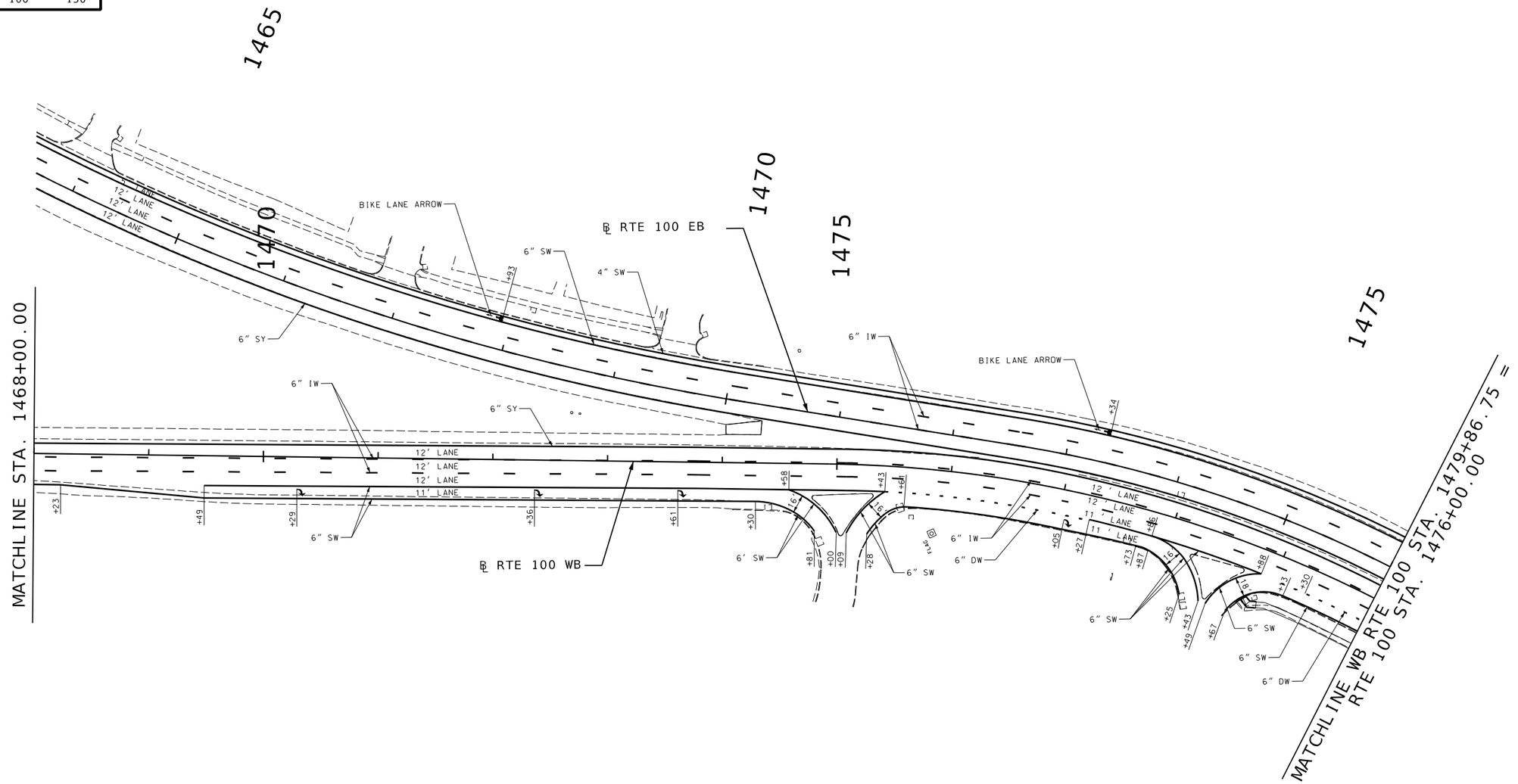
PAVEMENT MARKING SHEET

MO ROUTE 100
MANCHESTER ROAD

KENDRA MILLER
PROFESSIONAL ENGINEER
PE-2014041301

SCALE

0 50 100 150



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SHEET 8 OF 14

PAVEMENT MARKING SHEET

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MANCHESTER ROAD

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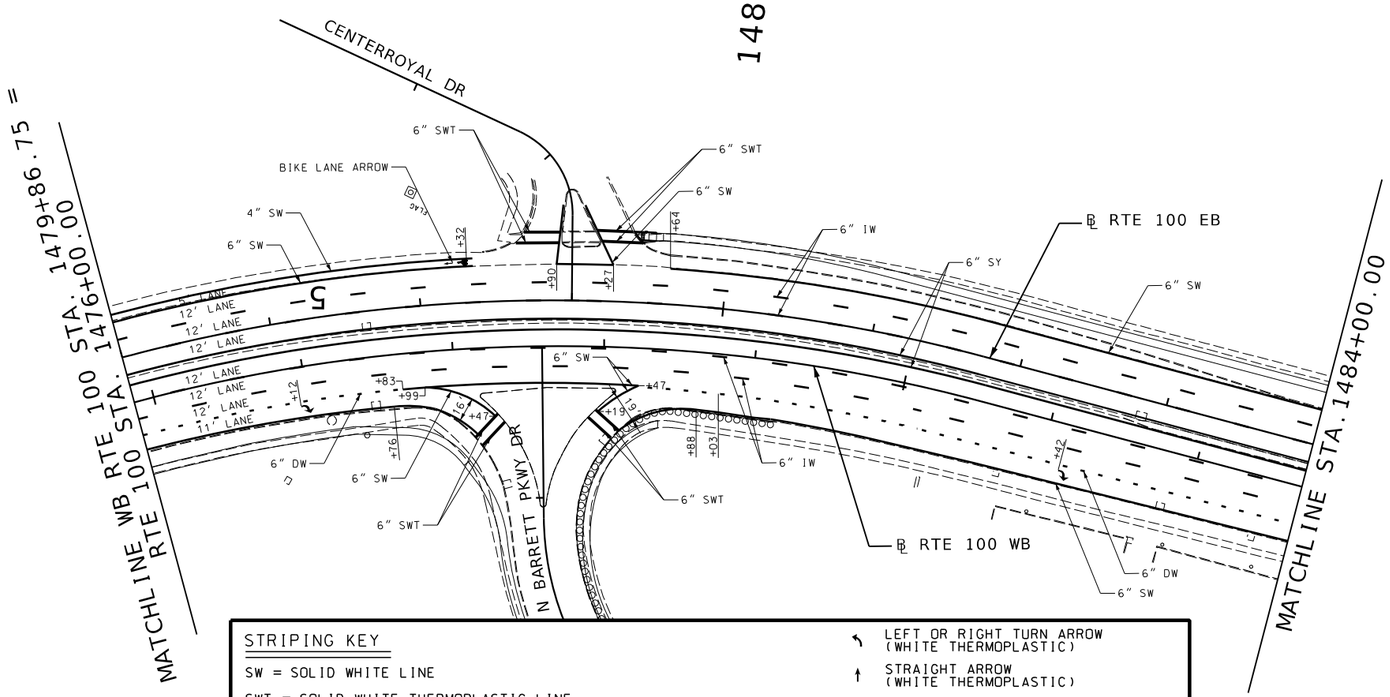

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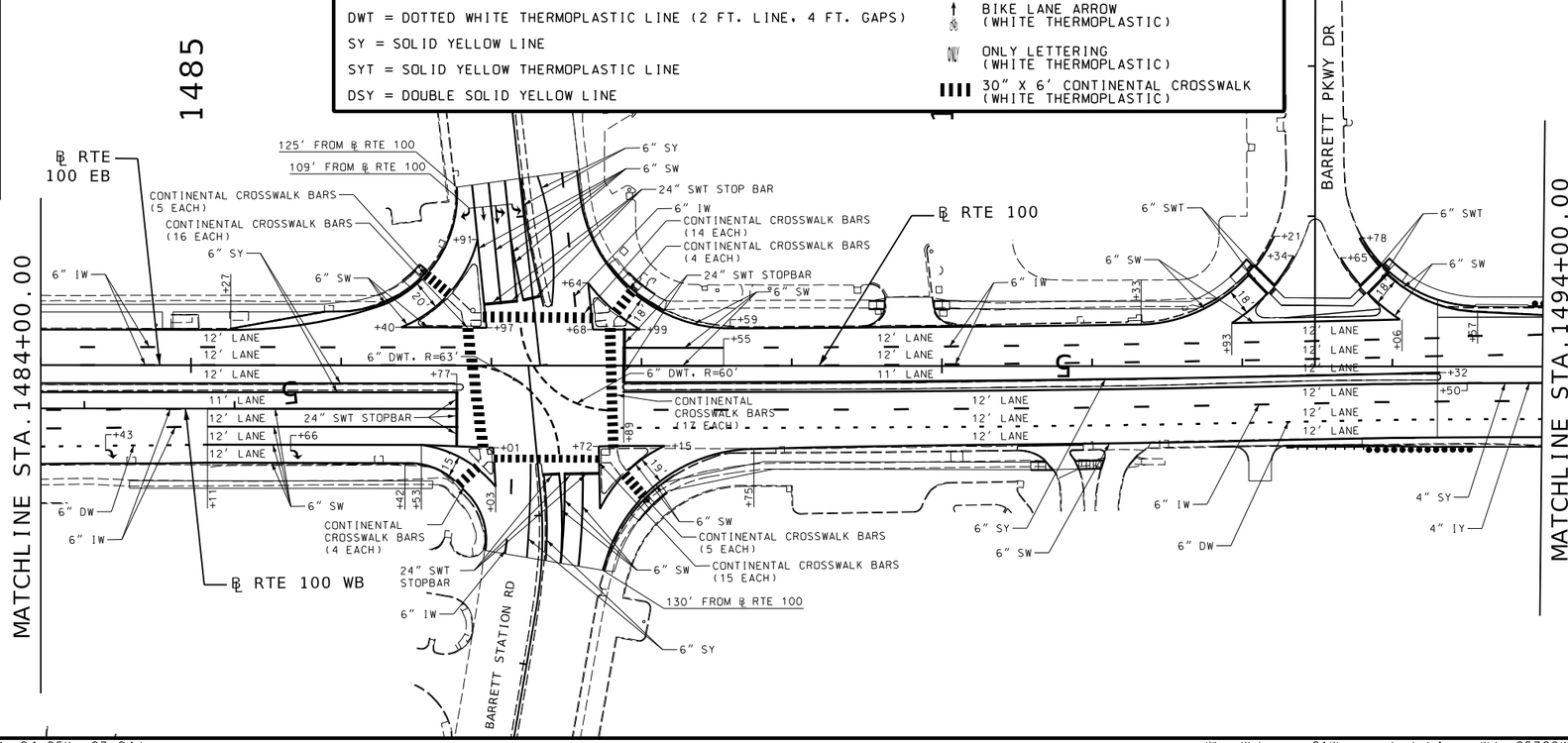

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100	MO
DISTRICT	SHEET NO.
SL	281

COUNTY: ST. LOUIS
JOB NO.: J6P3274
CONTRACT ID.:
PROJECT NO.:
BRIDGE NO.:

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SHEET 9 OF 14

PAVEMENT MARKING SHEET

MO ROUTE 100
MANCHESTER ROAD

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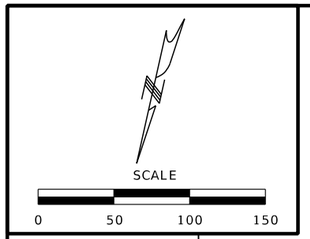

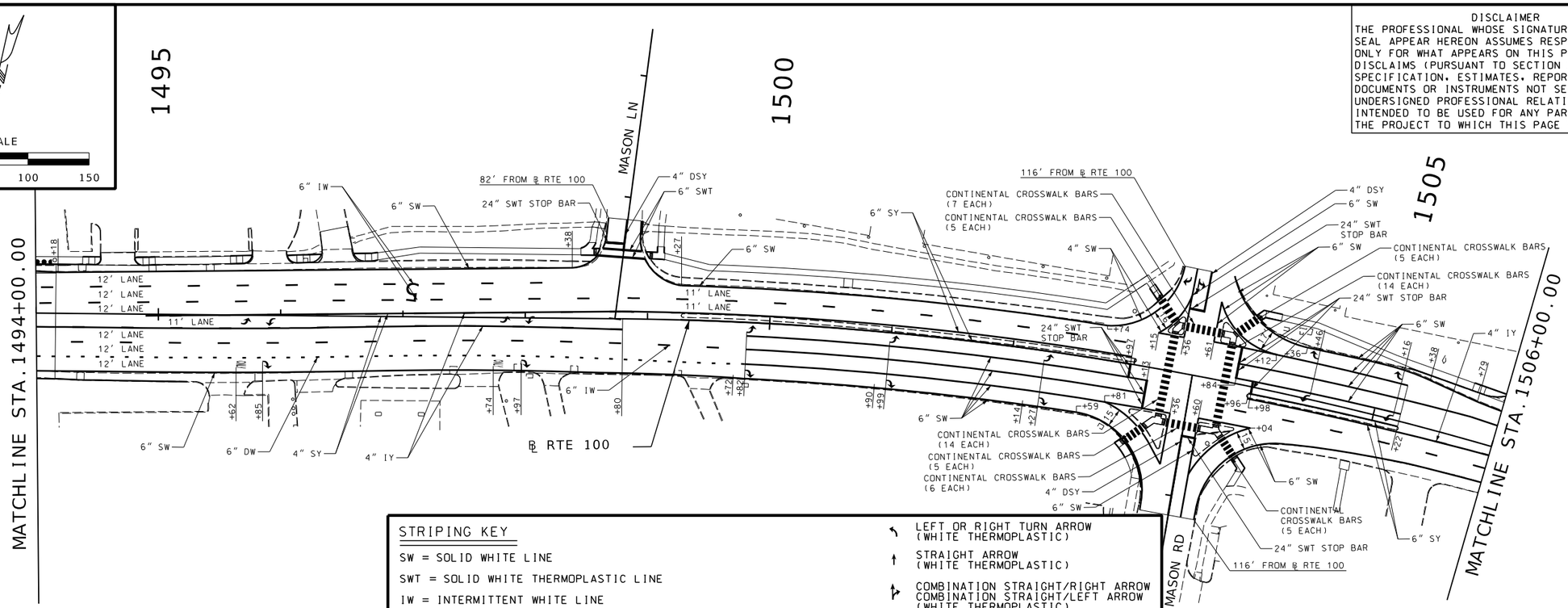

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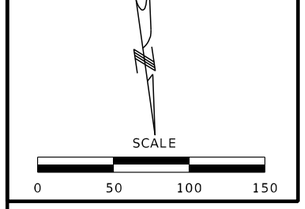

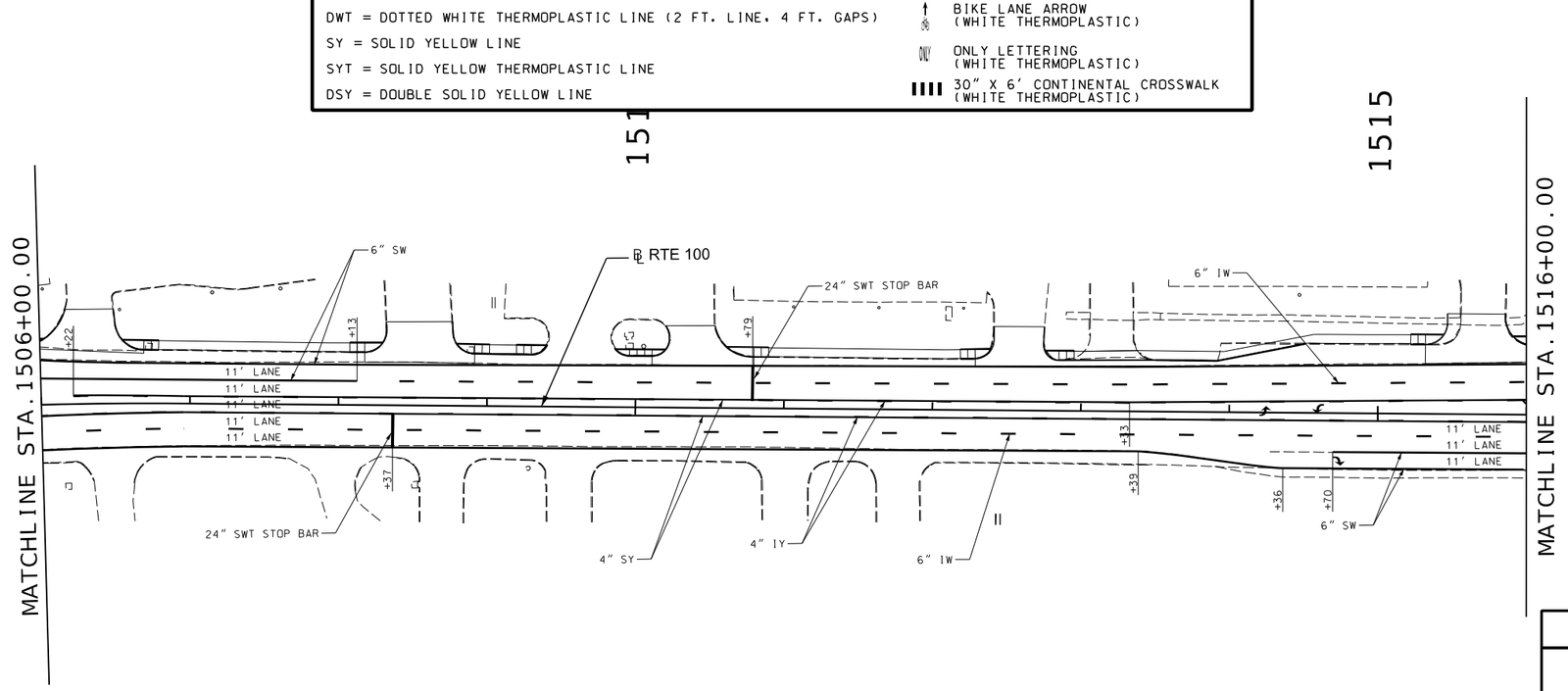

SHEET 10 OF 14

PAVEMENT MARKING SHEET

MO ROUTE 100
MANCHESTER ROAD

STATE OF MISSOURI
KENDRA MILLER
NUMBER PE-2014041301
PROFESSIONAL ENGINEER
THIS SHEET HAS BEEN SIGNED, SEALED, AND DATED ELECTRONICALLY.

DATE PREPARED: 3/28/2025
MO ROUTE: 100
STATE: MO
DISTRICT: SL
SHEET NO.: 282
COUNTY: ST. LOUIS
JOB NO.: J6P3274
CONTRACT ID.:
PROJECT NO.:
BRIDGE NO.:

DATE	DESCRIPTION

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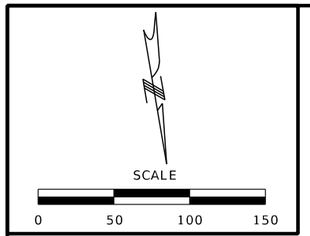
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

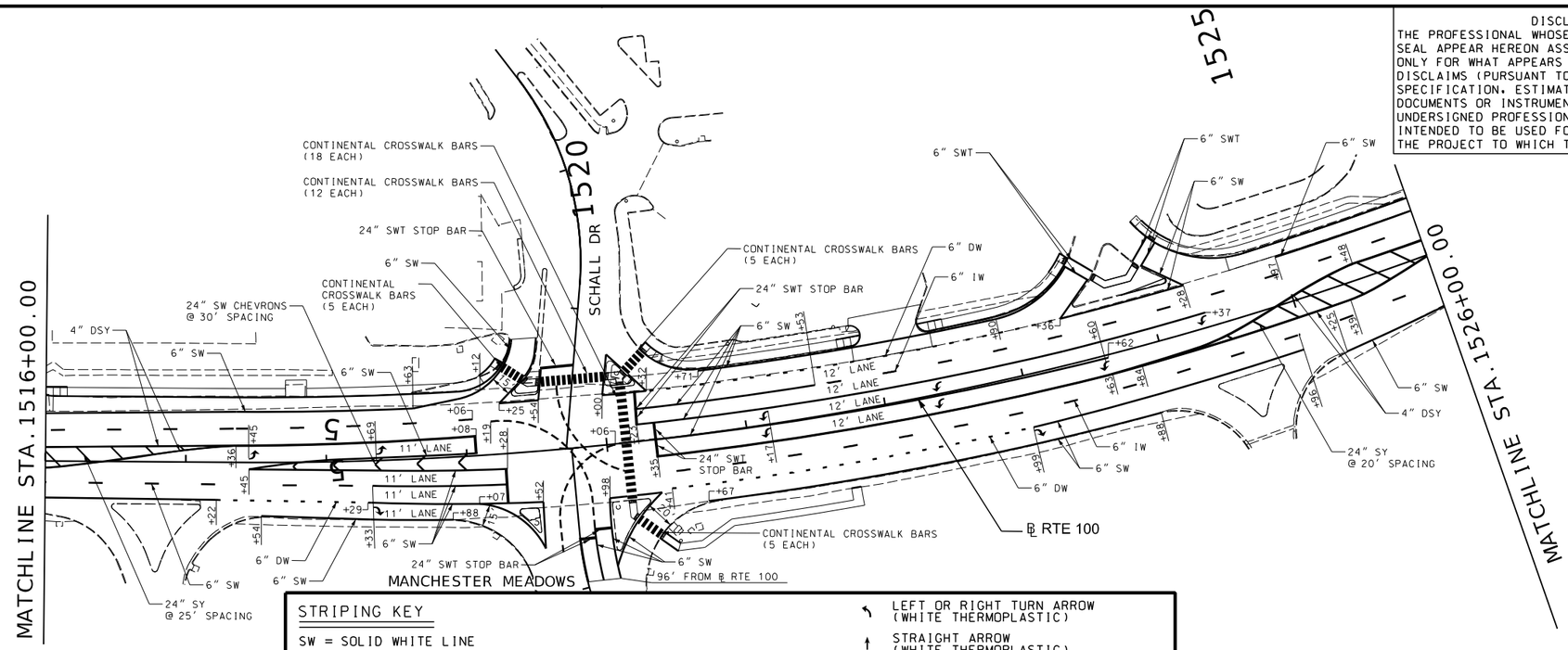
GBA
16305 SWINGLEY RIDGE RD
ST. 300
CHESTERFIELD, MO 63017
314.231.0100
GBAteam.com

GEORGE BUTLER ASSOCIATES, INC.
PRO. ENGINEER 000133
ARCHITECT 000212
PRO. LAND SURVEYOR 000059

KENDRA MILLER
PROFESSIONAL ENGINEER
PE-2014041301

REV.





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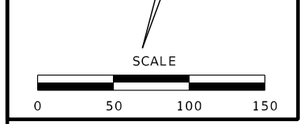

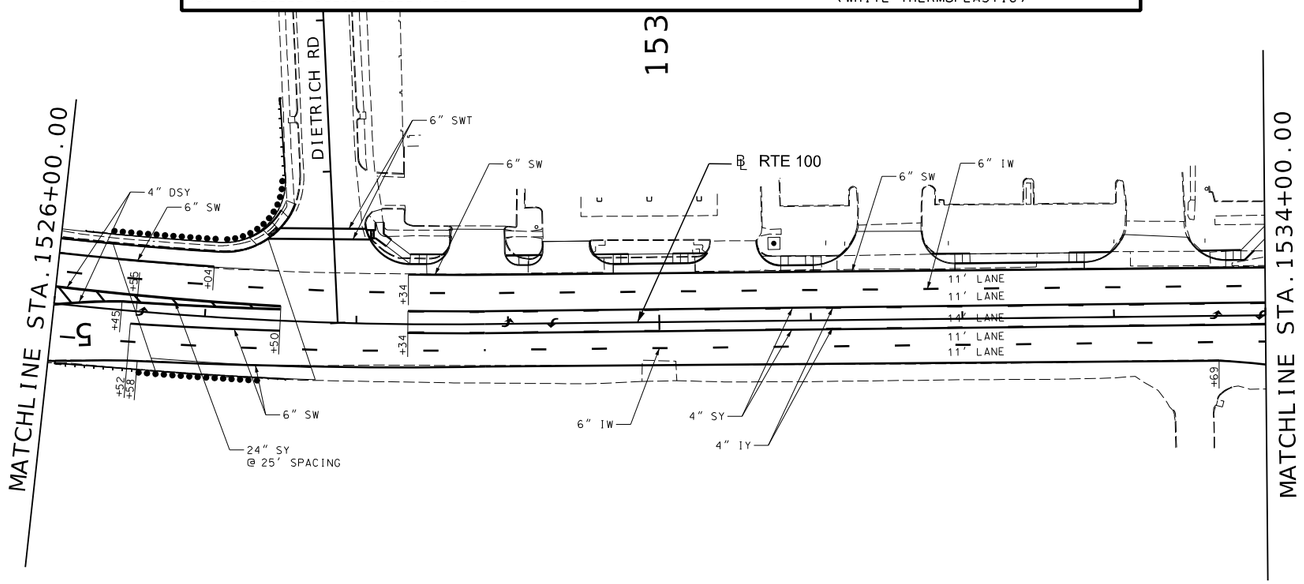

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KENDRA MILLER
NUMBER PE-2014041301
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MO ROUTE	STATE
100	MO
DISTRICT	SHEET NO.
SL	283

COUNTY: ST. LOUIS
JOB NO.: J6P3274
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ARCHITECT 000212
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SHEET 11 OF 14

PAVEMENT MARKING SHEET

MO ROUTE 100
MANCHESTER ROAD

KENDRA MILLER
PROFESSIONAL ENGINEER
PE-2014041301

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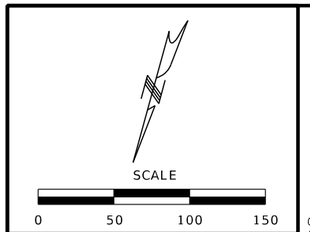

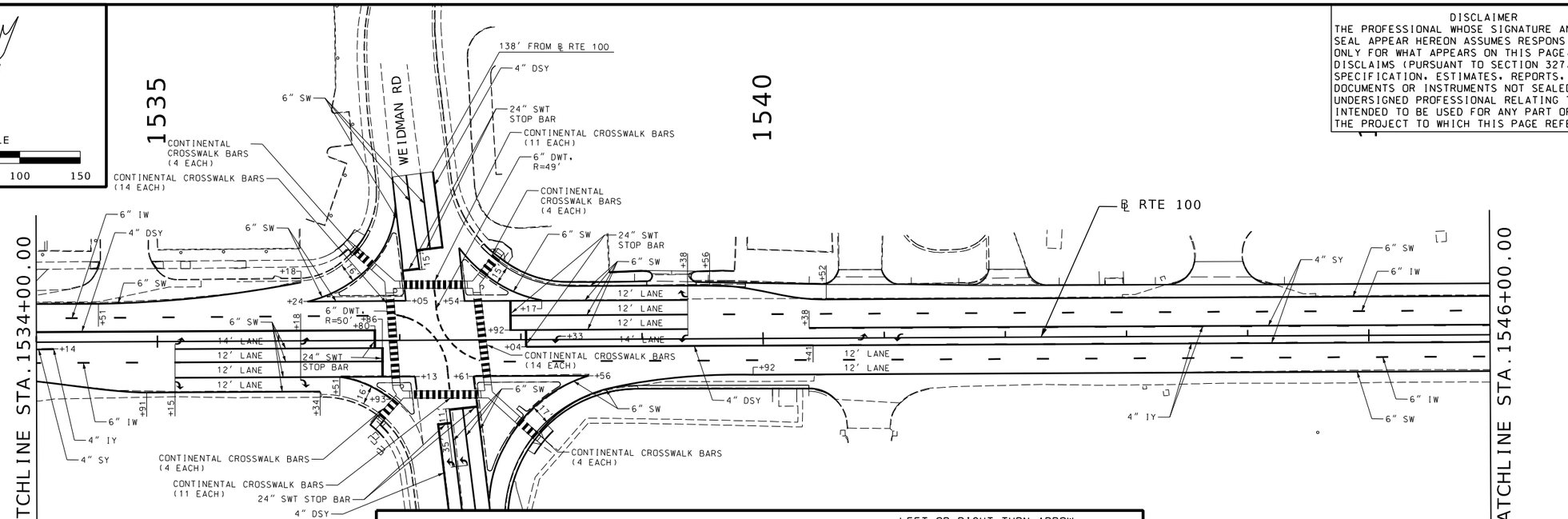

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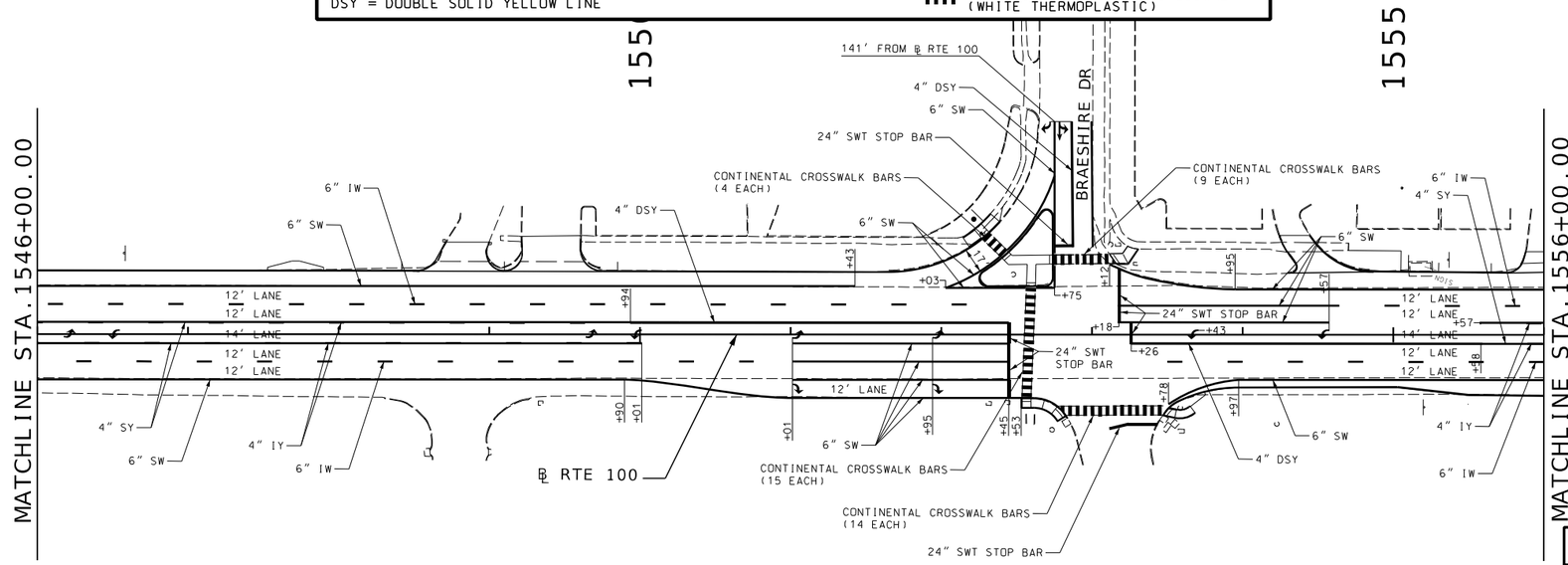

SHEET 12 OF 14

PAVEMENT MARKING SHEET

MO ROUTE 100
MANCHESTER ROAD

KENDRA MILLER
PROFESSIONAL ENGINEER
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STATE OF MISSOURI
KENDRA MILLER
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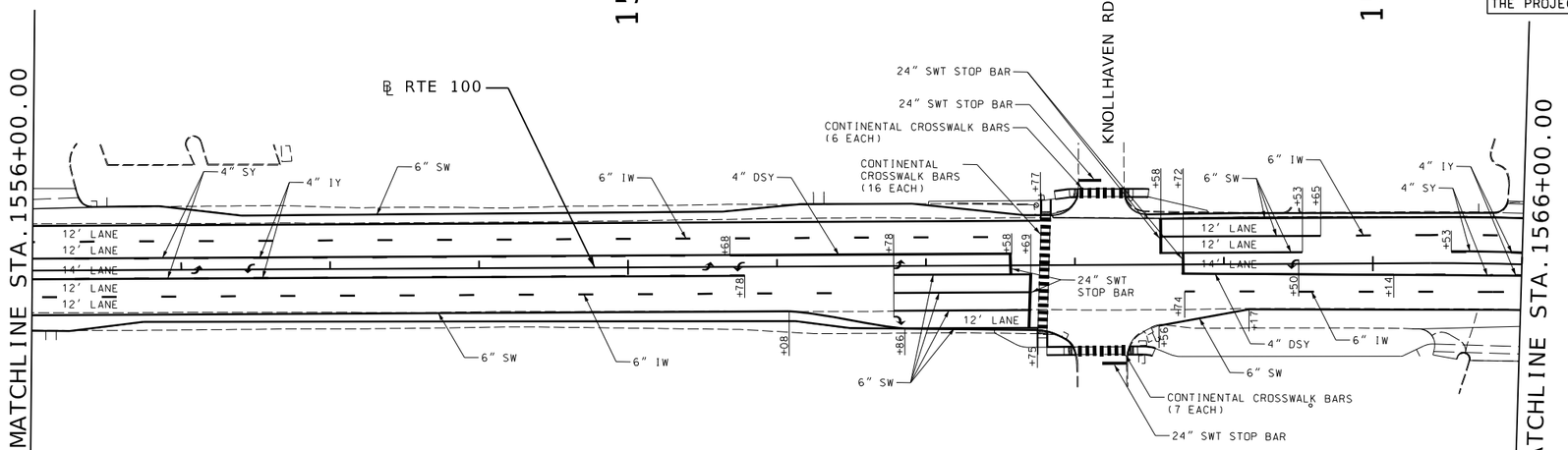
ARCHITECT 000212
PRO. LAND SURVEYOR 000059

REV.

SCALE

0 50 100 150



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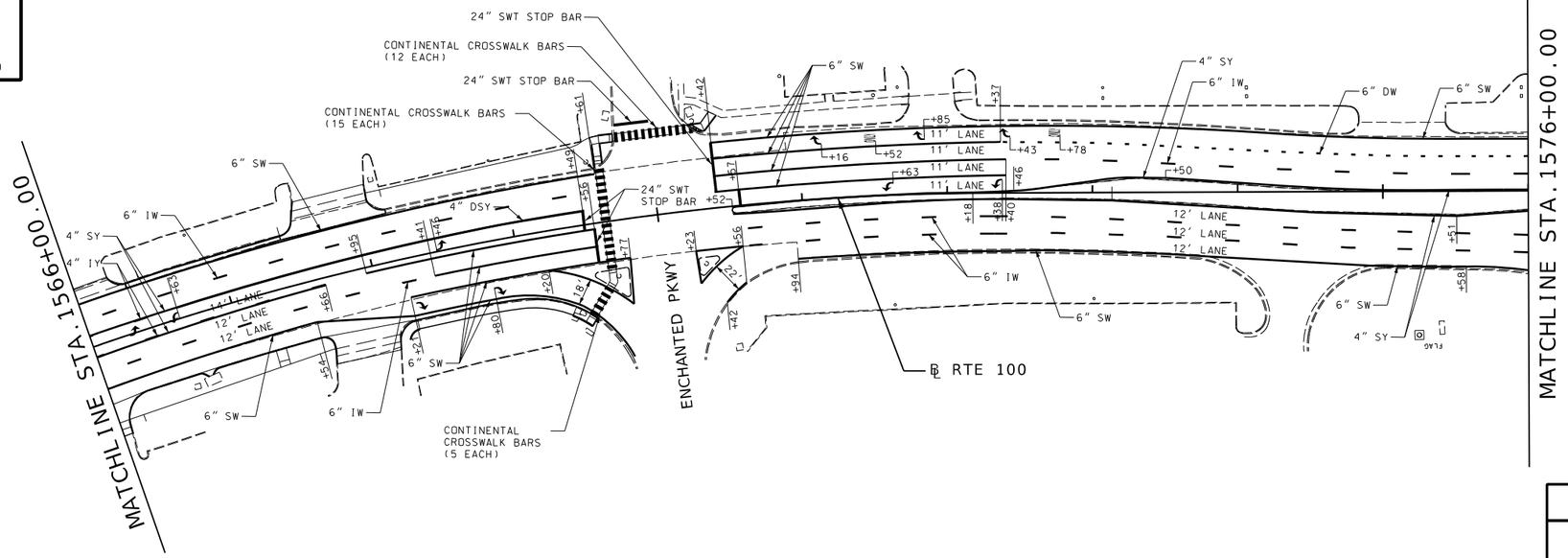

SHEET 13 OF 14

PAVEMENT MARKING SHEET

MO ROUTE 100
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100	MO
DISTRICT	SHEET NO.
SL	285

COUNTY
ST. LOUIS

JOB NO.
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KENDRA MILLER
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PE-2014041301

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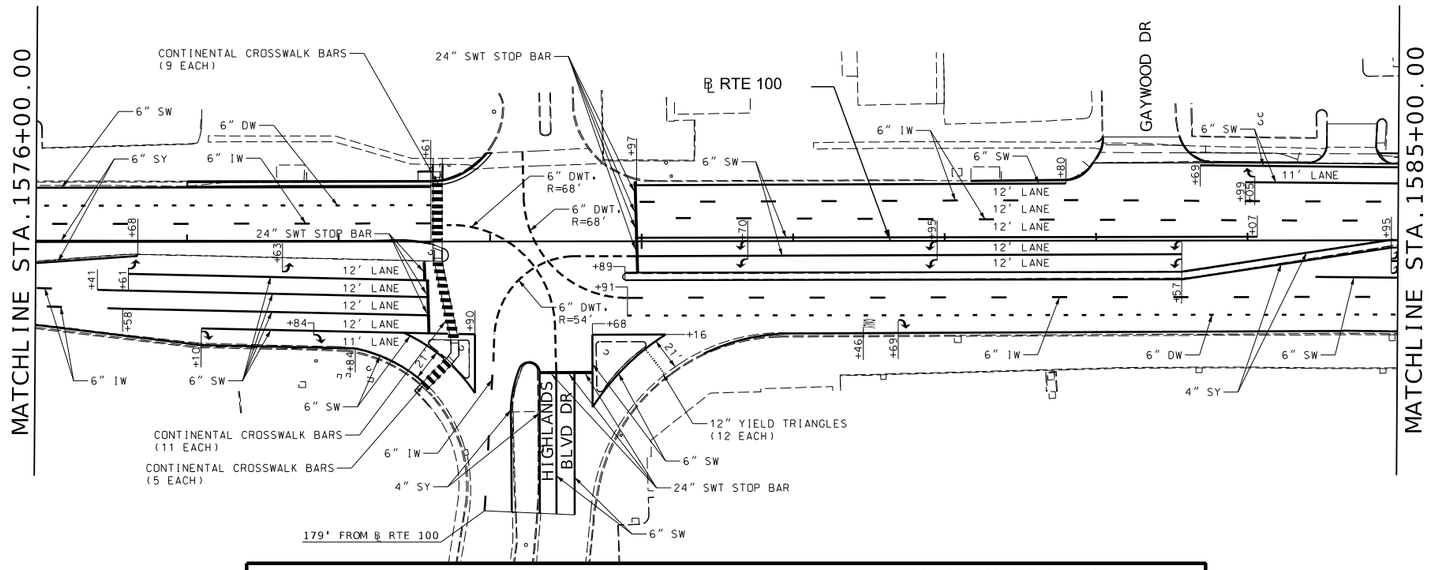

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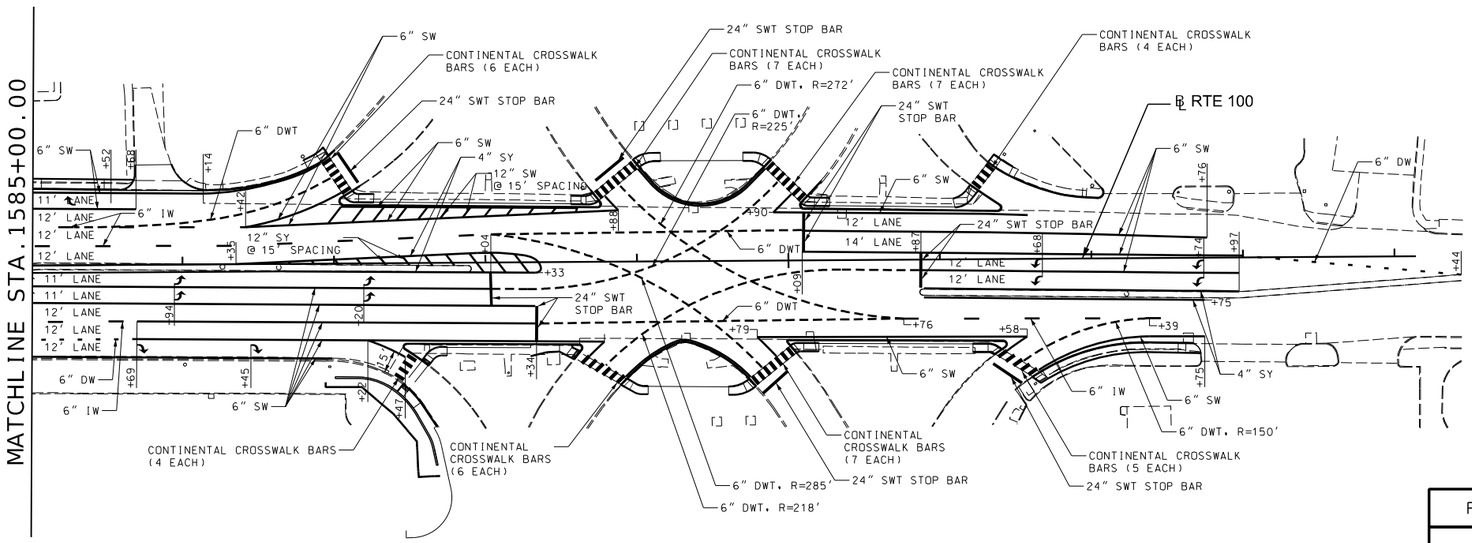

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KENDRA MILLER
NUMBER PE-2014041301
PROFESSIONAL ENGINEER

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MO ROUTE	STATE
100	MO
DISTRICT	SHEET NO.
SL	286

COUNTY: ST. LOUIS

JOB NO.: J6P3274

CONTRACT ID.:

PROJECT NO.:

BRIDGE NO.:

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MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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PRO. ENGINEER 000133
ARCHITECT 000212
PRO. LAND SURVEYOR 000059

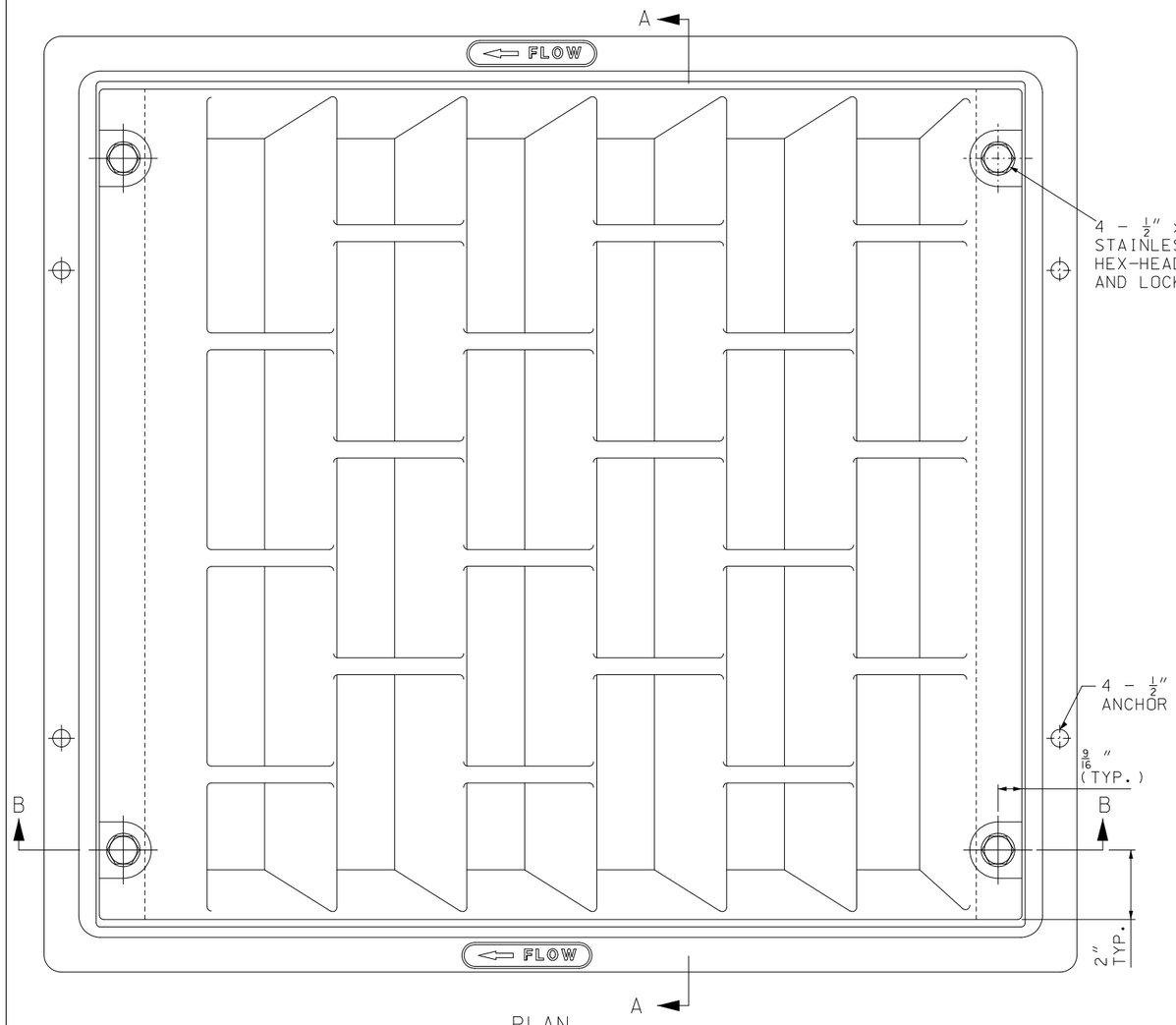
SHEET 14 OF 14

PAVEMENT MARKING SHEET

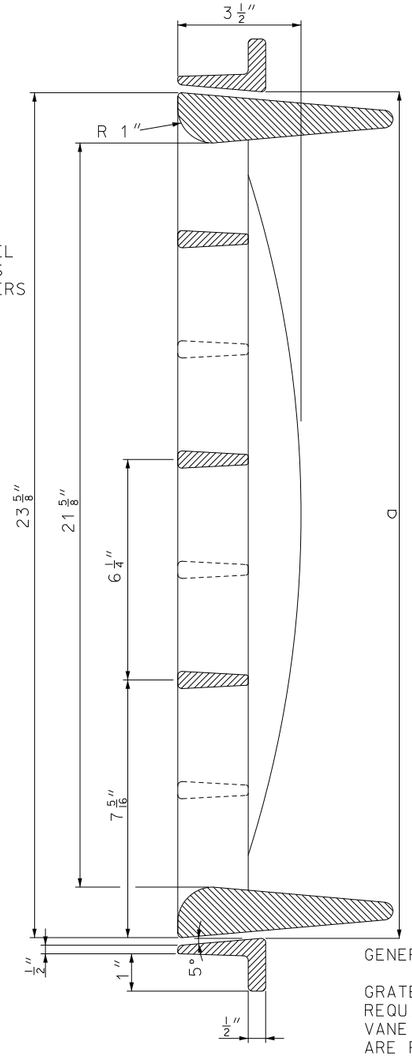
MO ROUTE 100
MANCHESTER ROAD

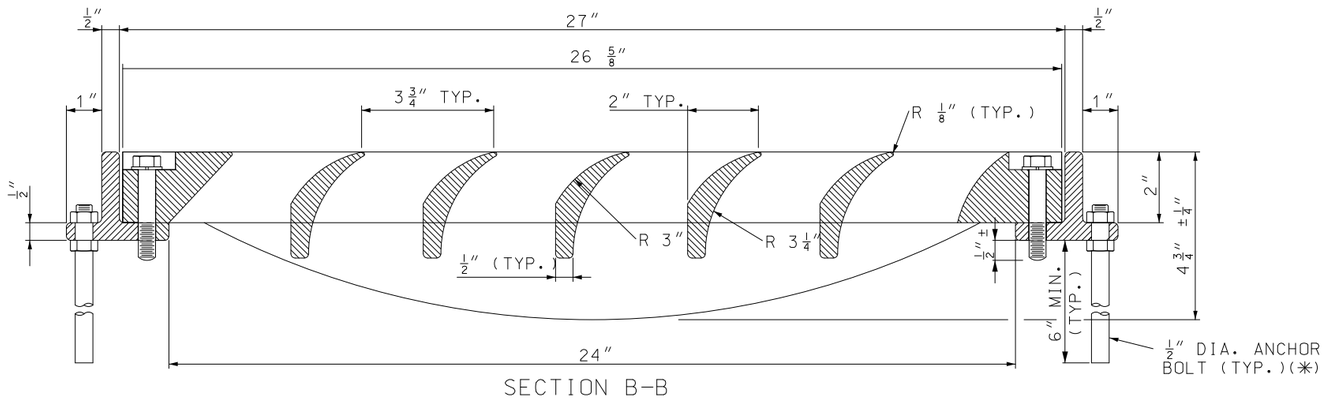
KENDRA MILLER
PROFESSIONAL ENGINEER
PE-2014041301

REV.



PLAN





SECTION B–B

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NOMINAL DIMENSIONS AND WEIGHTS

OPENING				NUMBER OF	
WIDTH	LENGTH	a	WEIGHT (LB.)	ANCHOR BOLTS	STAINLESS STEEL BOLTS
2′-0″	2′-0″	24″	200	4	4
4′-0″	2′-0″	48″	348	8	8

NOTE: TWO 2′ X 2′ GRATES MAY BE USED IN LIEU OF SINGLE 4′ X 2′ GRATES.

INSTALLATION INSTRUCTIONS:

DRILL AND TAP FRAME.

INSTALL ½″ DIA. BOLTS WITHOUT WASHERS BEFORE CONCRETE POUR TO FORM ½″± BOLT EXTENSION INTO CONCRETE BELOW FRAME. LUBRICATE EXPOSED THREADS.

AFTER CONCRETE HARDENS SUFFICIENTLY, FINAL INSTALLATION SHALL REMOVE AND REINSTALL ½″ DIA. BOLTS AND LOCK WASHERS THROUGH GRATE AND FRAME. TORQUE ½″ DIA. BOLTS TO 35–40 FT. LB. APPLY THREAD ADHESIVE TO ALL ½″ DIA. STAINLESS STEEL BOLTS.

GENERAL NOTES:

GRATES TO BE CONSTRUCTED OF CAST GRAY IRON AND MEET REQUIREMENTS OF AASHTO M 306. MINOR VARIATIONS IN VANE SHAPE TO MEET MANUFACTURER'S STANDARD PRACTICE ARE PERMITTED.

MINIMUM CLEAR OPEN AREA: 2.10 SQUARE FEET.

(✳) ½″ DIA. ANCHOR BOLTS, NUTS, AND WASHERS SHALL BE GALVANIZED IN ACCORDANCE WITH AASHTO M 232 OR SHALL BE MECHANICALLY GALVANIZED. IF MECHANICALLY GALVANIZED, THE COATING THICKNESS, ADHERENCE AND QUALITY REQUIREMENTS SHALL BE IN ACCORDANCE WITH AASHTO M 232, CLASS C. DAMAGED SPELTER COATING SHALL BE REPAIRED IN ACCORDANCE WITH SEC 1081.

STEEL REINFORCEMENT FOR STRUCTURE SHALL BE AS DETAILED IN STANDARD PLAN 731.10S

SHEET 1 OF 2

DETAIL SHEET

MO ROUTE 100
MANCHESTER ROAD

STATE OF MISSOURI
SANDRA MARIE WAGNER
NUMBER PE-2010019606
PROFESSIONAL ENGINEER

Sandra M. Wagner

DATE PREPARED
2/6/2025

ROUTE	STATE
100	MO
DISTRICT	SHEET NO.
SL	287

COUNTY
ST. LOUIS

JOB NO.
J6P3274

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TREKK DESIGN GROUP, LLC
17 Cassens Ct.
Fenton, MO 63026
Tel (314) 932-1226
www.trekkdesigngroup.com
Missouri Cert. of Authority 2002010300

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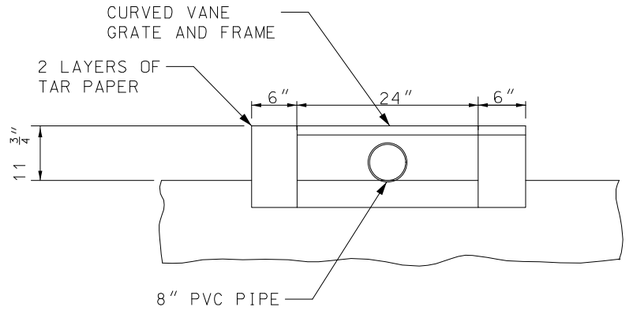

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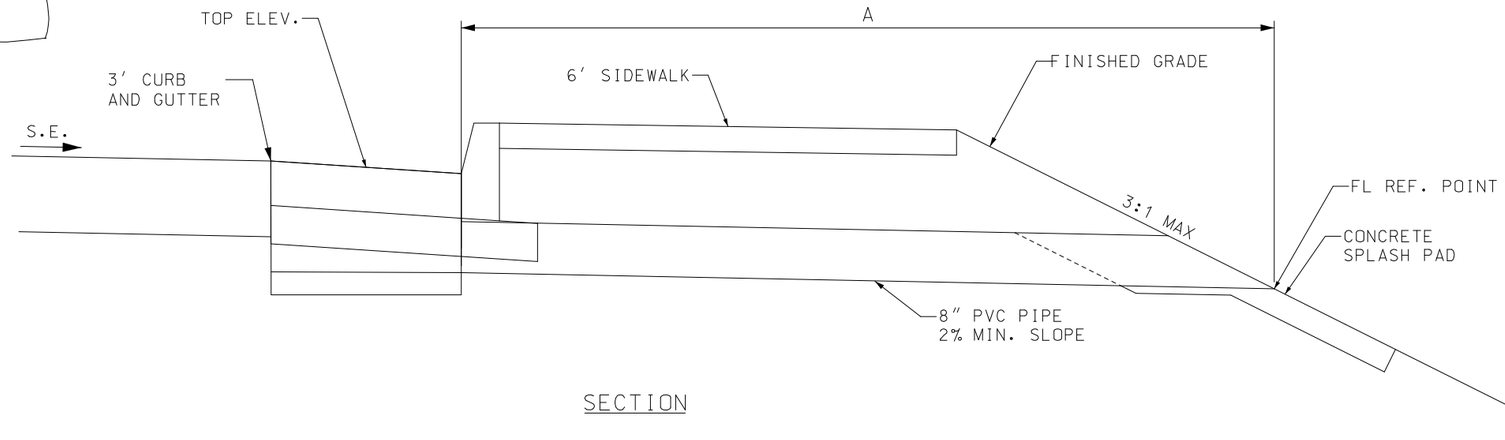


SECTION

NOTES: PRECAST CONCRETE SPLASH PADS MAY BE INSTALLED AS APPROVED BY THE ENGINEER.

TOP OF SPLASH PAD SHALL MATCH EXISTING CROSS SLOPE. CONSTRUCT BEND IN SPLASH PAD WHERE CROSS SLOPE CHANGES.

DIMENSIONS ARE APPROXIMATE AND CAN BE ADJUSTED AS DIRECTED BY THE ENGINEER.

STEEL REINFORCEMENT FOR STRUCTURE SHALL BE AS DETAILED IN STANDARD PLAN 731.10S.

STRUCTURE	STATION	OFFSET	TOP ELEV.	SIDE	A	A SLOPE	FL STATION	FL OFFSET	FL ELEV.
1517A	1517+42.53	44.00	467.69	LT	28.00	2.0	1517+42.53	74.00	466.06
1518A	1518+80.86	44.00	464.10	LT	22.00	2.0	1518+80.86	68.00	462.58
1531A	1531+26.10	46.76	459.70	LT	4.57	2.0	1531+20.82	48.61	458.63
1532A	1532+01.76	34.34	460.95	LT	10.61	2.0	1532+01.76	46.94	459.76
1555A	1555+52.40	37.65	479.00	RT	10.55	2.0	1555+52.40	50.17	478.87
1558A1	1558+00.00	33.10	481.81	RT	14.00	2.0	1558+00.00	49.11	480.49
1558A2	1558+04.66	34.14	481.44	LT	12.18	2.0	1558+04.66	48.32	479.91
1561A3	1561+87.94	39.62	481.42	LT	11.86	1.5	1561+87.94	53.48	480.26
1564A1	1564+10.00	33.05	480.31	LT	18.65	2.0	1564+10.00	52.70	478.96
1564A2	1564+50.00	32.91	480.28	LT	13.98	2.0	1564+50.00	47.89	479.02

NOTE: ALL STATIONS AND OFFSETS ARE REFERENCED FROM EXISTING MO ROUTE 100 MAINLINE.

SANDRA MARIE WAGNER
NUMBER PE-2010019606
STATE OF MISSOURI
PROFESSIONAL ENGINEER

DATE PREPARED
3/27/2025

ROUTE	STATE
100	MO
DISTRICT	SHEET NO.
SL	288

COUNTY
ST. LOUIS

JOB NO.
J6P3274

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)

17 Cassens Ct.
Fenton, MO 63026
Tel (314) 932-1226
www.trekkdesigngroup.com
Missouri Cert. of Authority 2002010300

TREKK DESIGN GROUP, LLC

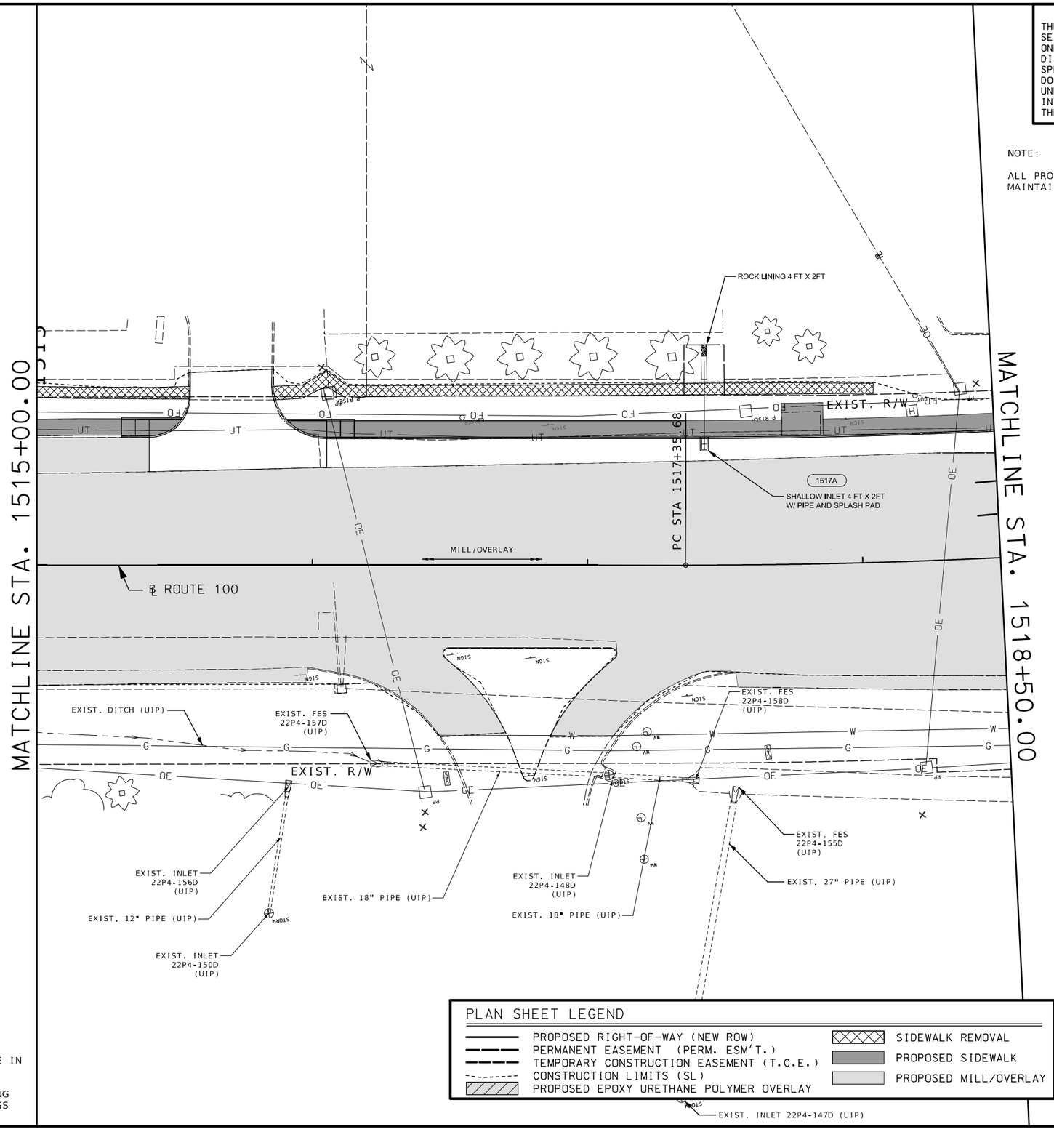
SHEET 2 OF 2

DETAIL SHEET

MO ROUTE 100
MANCHESTER ROAD

SCALE

0 20 40 60



PLAN SHEET LEGEND

- PROPOSED RIGHT-OF-WAY (NEW ROW)
- PERMANENT EASEMENT (PERM. ESM'T.)
- TEMPORARY CONSTRUCTION EASEMENT (T.C.E.)
- CONSTRUCTION LIMITS (SL)
- PROPOSED EPOXY URETHANE POLYMER OVERLAY
- SIDEWALK REMOVAL
- PROPOSED SIDEWALK
- PROPOSED MILL/OVERLAY

ADDITIONAL IMPERVIOUS AREA = 0.82 ACRES
PI IMPERVIOUS = 3.54
PI PERVIOUS = 1.70

DIFFERENTIAL = +1.51 CFS

DIFFERENTIAL FOR 19MSD-00527 = +0.17 CFS

CUMMULATIVE DIFFERENTIAL = 1.68 CFS

STORMWATER MANAGEMENT FUTURE DISTURBANCE NOTE:

LAND AREA DISTURBED = 7.36 ACRES (SEE THE ROADWAY PLANS FOR LIMITS)
PROJECT RUNOFF DIFFERENTIAL = 1.51 CFS
ANY FUTURE LAND DISTURBANCE AND/OR INCREASE IN IMPERVIOUS AREA ON THIS SITE MAY REQUIRE ADDITIONAL STORMWATER MANAGEMENT PER MSD REGULATIONS IN PLACE AT THAT TIME (INCLUDING TOTAL LAND DISTURBANCE AND/OR IMPERVIOUSNESS ADDED ON THIS PLAN.)

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STATE OF MISSOURI
SANDRA MARIE WAGNER
NUMBER PE-2010019606
PROFESSIONAL ENGINEER

Sandra M. Wagner

DATE PREPARED
2/6/2025

ROUTE	STATE
100	MO
DISTRICT	SHEET NO.
SL	289

COUNTY
ST. LOUIS

JOB NO.
J6P3274

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

17 Cassens Ct.
Fenton, MO 63026
Tel: 636.305.2220
www.trekdesigngroup.com
Missouri Cert. of Authority 2002010300

TREK DESIGN GROUP, LLC

SHEET 1 OF 14

DRAINAGE PLAN SHEET

MO ROUTE 100
MANCHESTER ROAD

SCALE
0 20 40 60

DISCLAIMER
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MATCHLINE STA. 1518+50.00

MATCHLINE STA. 1523+00.00

EXIST. INLET 22P4-119D (UIP)
EXIST. 12" PIPE (UIP)
EXIST. 12" PIPE (UIP)
EXIST. SLOTTED DRAIN (UIP)
EXIST. INLET NO MSD ID (UIP)
PC STA 6+17.08
S MANCHESTER MEADOWS
EXIST. INLET 22P4-075D (ATG)
ROCK LINING 5FT X 2FT
EXIST. R/W
1518A
SHALLOW INLET 4FT X 2FT W/ PIPE AND SPLASH PAD
S12°21'01"W
1520
EXIST. VACUUM (UIP)
EXIST. MH (TYP) NO MSD ID
EXIST. VACUUM (UIP)
EXIST. INLET 22P4-118D (UIP)
EXIST. 15" PIPE (UIP)
EXIST. 12" PIPE (UIP)
EXIST. INLET 22P4-122D (ATG)
EXIST. INLET 22P4-123D (ATG)
℄ ROUTE 100
MILL/OVERLAY
80°
STA. 5+00.00 MANCHESTER MDWS =
STA. 1519+70.05 ROUTE 100
STA. 5+00.00 MANCHESTER MDWS =
STA. 1519+74.74 ROUTE 100
S02°16'11"W
PT STA 4+35.56
EXIST. R/W
EXIST. FES NO MSD ID (UIP)
EXIST. FES 22P4-170D (UIP)
EXIST. 30" PIPE (UIP)
EXIST. INLET 22P4-167D (UIP)
EXIST. 15" PIPE (UIP)
EXIST. INLET 22P4-166D (UIP)
MANCHESTER S MEADOWS
PC STA 3+22.93
EXIST. SAN. MH 22P4-104S (UIP)
EXIST. INLET 22P4-172D (UIP)
EXIST. 18" PIPE (UIP)
EXIST. FES NO MSD ID (UIP)
EXIST. FES 22P4-171D (UIP)
EXIST. 30" PIPE (UIP)
EXIST. PAVED DITCH (UIP)

PLAN SHEET LEGEND
- PROPOSED RIGHT-OF-WAY (NEW ROW)
- PERMANENT EASEMENT (PERM. ESM'T.)
- TEMPORARY CONSTRUCTION EASEMENT (T.C.E.)
- CONSTRUCTION LIMITS (SL)
- PROPOSED EPOXY URETHANE POLYMER OVERLAY
- SIDEWALK REMOVAL
- PROPOSED SIDEWALK
- PROPOSED MILL/OVERLAY

SHEET 2 OF 14

DRAINAGE PLAN SHEET

MO ROUTE 100
MANCHESTER ROAD

STATE OF MISSOURI
SANDRA MARIE WAGNER NUMBER PE-2010019606
PROFESSIONAL ENGINEER
Sandra M. Wagner

DATE PREPARED 2/6/2025

ROUTE	STATE
100	MO
DISTRICT	SHEET NO.
SL	290

COUNTY ST. LOUIS
JOB NO. J6P3274
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)

17 Cassens Ct.
Fenton, MO 63026
Tel (314) 932-1226
www.trekdesigngroup.com
Missouri Cert. of Authority 2002010300

TREK DESIGN GROUP, LLC

SCALE
0 20 40 60

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MATCHLINE STA. 1523+00.00

MATCHLINE STA. 1528+00.00

TREE (DND)

EXIST. R/W

DIETRICH RD

EXIST. INLET 22P4-228D (UIP)

EXIST. INLET 22P4-125D (R)

152YP TYPE A PIPE COLLAR

EXIST. 12" PIPE (UIP)

EXIST. 18" PIPE (UIP)

EXIST. 15" PIPE (R)

EXIST. INLET 22P4-124D (R)

EXIST. R/W

EXIST. 15" PIPE (UIP)

EXIST. INLET 22P4-235D (UIP)

EXIST. INLET 22P4-127D (UIP)

EXIST. 15" PIPE (R)

1525A GRATE INLET 4FT X 2FT

EXIST. 15" PIPE (R)

LINE 1526-A

1526A GRATE INLET 4FT X 2FT

LINE 1526-B

STA. 5+00.00 DIETRICH RD. = STA. 1527+87.63 ROUTE 100

94°20'56"

℄ ROUTE 100

MILL/OVERLAY

EXIST. PAVED DITCH (UIP)

EXIST. INLET 22P4-192D (UIP)

EXIST. 36" PIPE (UIP)

EXIST. STORM MH 22P4-201D (UIP)

EXIST. 36" PIPE (UIP)

EXIST. R/W

EXIST. INLET 22P4-189D (UIP)

EXIST. SLOTTED DRAIN (UIP)

EXIST. 36" PIPE (UIP)

EXIST. SAN. MH 22P4-034S (UIP)

EXIST. INLET 22P4-190D (UIP)

EXIST. SAN. MH 22P4-106S (UIP)

EXIST. INLET 22P4-185D (UIP)

EXIST. FES 22P4-200D (UIP)

PLAN SHEET LEGEND

- PROPOSED RIGHT-OF-WAY (NEW ROW)
- PERMANENT EASEMENT (PERM. ESM'T.)
- TEMPORARY CONSTRUCTION EASEMENT (T.C.E.)
- CONSTRUCTION LIMITS (SL)
- PROPOSED EPOXY URETHANE POLYMER OVERLAY
- SIDEWALK REMOVAL
- PROPOSED SIDEWALK
- PROPOSED MILL/OVERLAY

SHEET 3 OF 14

DRAINAGE PLAN SHEET

MO ROUTE 100
MANCHESTER ROAD

STATE OF MISSOURI
SANDRA MARIE WAGNER
NUMBER PE-2010019606
PROFESSIONAL ENGINEER

Sandra M. Wagner

DATE PREPARED
2/6/2025

ROUTE	STATE
100	MO
DISTRICT	SHEET NO.
SL	291

COUNTY
ST. LOUIS

JOB NO.
J6P3274

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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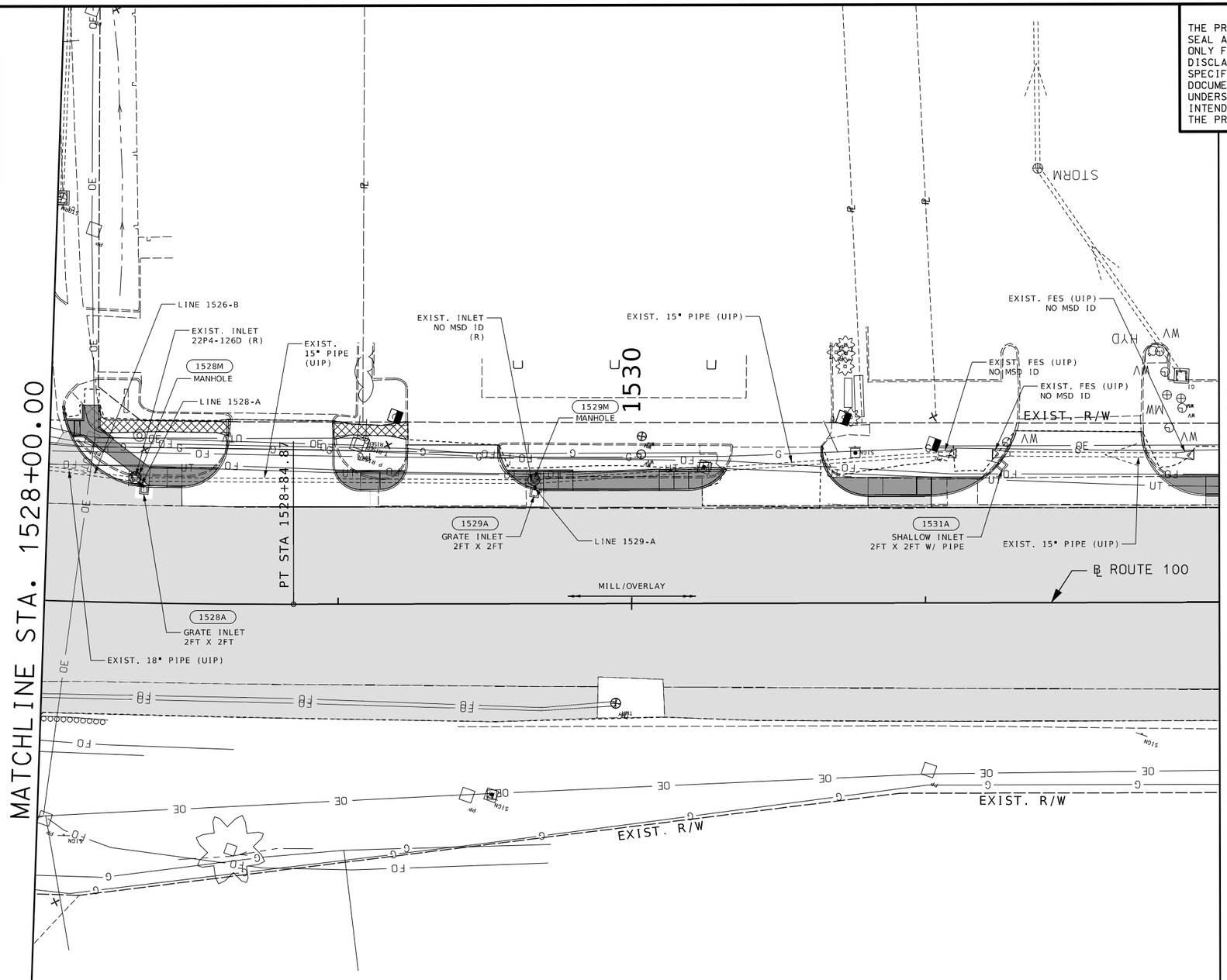
17 Cassens Ct.
Fenton, MO 63026
Tel (314) 932-1226
www.trekkdesigngroup.com
Missouri Cert. of Authority 2002010390

TREKK DESIGN GROUP, LLC

SCALE

0 20 40 60



PLAN SHEET LEGEND

- PROPOSED RIGHT-OF-WAY (NEW ROW)
- PERMANENT EASEMENT (PERM. ESM'T.)
- TEMPORARY CONSTRUCTION EASEMENT (T.C.E.)
- CONSTRUCTION LIMITS (SL)
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SHEET 4 OF 14

DRAINAGE PLAN SHEET

MO ROUTE 100
MANCHESTER ROAD

STATE OF MISSOURI
SANDRA MARIE WAGNER
NUMBER PE-2010019606
PROFESSIONAL ENGINEER

Sandra M. Wagner

DATE PREPARED
2/6/2025

ROUTE	STATE
100	MO
DISTRICT	SHEET NO.
SL	292

COUNTY
ST. LOUIS

JOB NO.
J6P3274

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)

TREKK DESIGN GROUP, LLC
17 Cassens Ct.
Fenton, MO 63026
Tel (314) 932-1226
www.trekkdesigngroup.com
Missouri Cert. of Authority 2002010300

SCALE

0 20 40 60

MATCHLINE STA. 1532+00.00

EXIST. 15" PIPE (UIP)

EXIST. FES (UIP) NO MSD ID

EXIST. FES (UIP) NO MSD ID

EXIST. AGGR. DITCH (UIP)

EXIST. 15" PIPE (UIP)

1535

EXIST. R/W

1532A
SHALLOW INLET
4FT X 2FT W/ PIPE

1533F
15 IN FES

LINE 1533-A

1534F
15 IN FES

EXIST. FES 22P4-251D (UIP)

EXIST. FES 22P4-250D (UIP)

EXIST. DITCH (UIP)

MILL/OVERLAY

℄ ROUTE 100

EXIST. INLET 22P4-069D (UIP)

EXIST. FES 22P4-071D (UIP)

EXIST. R/W

EXIST. FES 22P4-072D (UIP)

EXIST. 18" PIPE (UIP)

EXIST. INLET 22P4-070D (UIP)

EXIST. 18" PIPE (UIP)

EXIST. 18" PIPE (UIP)

CONSORT DR

MATCHLINE STA. 1536+00.00

PLAN SHEET LEGEND

- PROPOSED RIGHT-OF-WAY (NEW ROW)
- PERMANENT EASEMENT (PERM. ESM'T.)
- TEMPORARY CONSTRUCTION EASEMENT (T.C.E.)
- CONSTRUCTION LIMITS (SL)
- PROPOSED EPOXY URETHANE POLYMER OVERLAY
- SIDEWALK REMOVAL
- PROPOSED SIDEWALK
- PROPOSED MILL/OVERLAY

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STATE OF MISSOURI
SANDRA MARIE WAGNER
NUMBER PE-2010019606
PROFESSIONAL ENGINEER

Sandra M. Wagner

DATE PREPARED
2/6/2025

ROUTE	STATE
100	MO
DISTRICT	SHEET NO.
SL	293

COUNTY
ST. LOUIS

JOB NO.
J6P3274

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

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MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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

MoDOT

TREKK DESIGN GROUP, LLC

17 Cassens Ct.
Fenton, MO 63026
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www.trekkdesigngroup.com
Missouri Cert. of Authority 2002010300

SHEET 5 OF 14

DRAINAGE PLAN SHEET

MO ROUTE 100
MANCHESTER ROAD

SCALE

0 20 40 60

MATCHLINE STA. 1536+00.00

MATCHLINE STA. 1540+75.00

WEILDMAN RD

EXIST. R/W

EXIST. 12" PIPE (UIP)

EXIST. INLET 22Q3-229D (UIP)

1540

EXIST. INLET 22Q3-230D (UIP)

EXIST. 15" PIPE (UIP)

1538P

TYPE A PIPE COLLAR

EXIST. FES 22Q3-065D (R)

1538F

15 IN FES

LINE 1538-A

EXIST. 24" PIPE (UIP)

EXIST. INLET 22Q3-231D (UIP)

EXIST. FES 22P4-312D (UIP)

EXIST. 24" PIPE (UIP)

EXIST. 12" PIPE (UIP)

EXIST. INLET 22Q3-063D (UIP)

EXIST. 15" PIPE (UIP)

PLAN SHEET LEGEND

- PROPOSED RIGHT-OF-WAY (NEW ROW)
- PERMANENT EASEMENT (PERM. ESM'T.)
- TEMPORARY CONSTRUCTION EASEMENT (T.C.E.)
- CONSTRUCTION LIMITS (SL)
- PROPOSED EPOXY URETHANE POLYMER OVERLAY
- SIDEWALK REMOVAL
- PROPOSED SIDEWALK
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STATE OF MISSOURI
SANDRA MARIE WAGNER
NUMBER PE-2010019606
PROFESSIONAL ENGINEER

Sandra M. Wagner

DATE PREPARED: 2/6/2025

ROUTE	STATE
100	MO

DISTRICT	SHEET NO.
SL	294

COUNTY: ST. LOUIS

JOB NO.: J6P3274

CONTRACT ID.:

PROJECT NO.:

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TREKK DESIGN GROUP, LLC

SHEET 6 OF 14

DRAINAGE PLAN SHEET

MO ROUTE 100
MANCHESTER ROAD

SCALE
0 20 40 60

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STATE OF MISSOURI
SANDRA MARIE WAGNER
NUMBER PE-2010019606
PROFESSIONAL ENGINEER
Sandra M. Wagner

DATE PREPARED
2/6/2025

ROUTE	STATE
100	MO
DISTRICT	SHEET NO.
SL	295

COUNTY
ST. LOUIS

JOB NO.
J6P3274

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

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

MATCHLINE STA. 1540+75.00

MATCHLINE STA. 1546+00.00

1545

1543M2
PRECAST 5' MANOLE
TOP = 468.93
FL 36" (NW) = 462.47
INV 42" = 462.37 (FIELD VERIFY PIPE SIZE)
STA 1543+30.16
O/S 47.20' LT
D = 6.6'

1542A
GRATE INLET
4FT X 2FT

1543M2
MANHOLE

1543M1
MANHOLE

1544S
GRATE INLET
3FT X 2FT

1544A
GRATE INLET
4FT X 2FT

1545A
GRATE INLET
4FT X 2FT

EXIST. 42" PIPE (UIP)
EXIST. 42" PIPE (UIP)
EXIST. INLET NO MSD ID (R)
EXIST. 36" PIPE (UIP)
EXIST. 15" PIPE (TBA)
EXIST. INLET NO MSD ID (R)
LINE 1544-A
LINE 1543-A
EXIST. R/W
EXIST. MANHOLE NO MSD ID (R)
LINE 1543-B
EXIST. 36" PIPE (UIP)
EXIST. INLET 22Q3-006D (UIP)
EXIST. 36" PIPE (UIP)
EXIST. 15" PIPE (UIP)
EXIST.12" PIPE (UIP)
EXIST. R/W
EXIST. MANHOLE 22Q3-005D (UIP)
EXIST. 15" PIPE (UIP)
EXIST. INLET 22Q3-002D (UIP)
EXIST. MANHOLE 22Q3-004D (UIP)
EXIST. 12" PIPE (UIP)
EXIST. INLET 22Q3-003D (UIP)
EXIST. INLET 22Q3-012D (UIP)
EXIST. 15" PIPE (UIP)
EXIST. INLET 22Q3-013D (UIP)
EXIST. 15" PIPE (UIP)
EXIST. 18" PIPE (UIP)
EXIST. MANHOLE 22Q3-015D (UIP)
EXIST. 18" PIPE (UIP)
EXIST. MANHOLE 22Q3-016D (UIP)
EXIST. INLET NO MSD ID (UIP)
EXIST. 12" PIPE (UIP)
EXIST. 27" PIPE (UIP)

NOTE:

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PLAN SHEET LEGEND

- PROPOSED RIGHT-OF-WAY (NEW ROW)
- PERMANENT EASEMENT (PERM. ESM'T.)
- TEMPORARY CONSTRUCTION EASEMENT (T.C.E.)
- CONSTRUCTION LIMITS (SL)
- PROPOSED EPOXY URETHANE POLYMER OVERLAY
- SIDEWALK REMOVAL
- PROPOSED SIDEWALK
- PROPOSED MILL/OVERLAY

SHEET 7 OF 14

DRAINAGE PLAN SHEET

MO ROUTE 100
MANCHESTER ROAD

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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TREKK DESIGN GROUP, LLC

SCALE

0 20 40 60

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MATCHLINE STA. 1546+00.00

MATCHLINE STA. 1551+00.00

1550

EXIST. R/W

1547A
GRATE INLET
4FT X 2FT

LINE 1543-B

S70°42'33"W

EXIST. R/W

EXIST. INLET
22Q3-009D
(UIP)

EXIST. PIPE END
NO MSD ID
(UIP)

EXIST. 12" PIPE
(UIP)

EXIST. 12" PIPE
(UIP)

EXIST. INLET
22Q3-010D
(UIP)

EXIST. 12" PIPE
(UIP)

EXIST. FES
22Q3-011D
(UIP)

EXISTING DITCH (UIP)

EXIST. R/W

EXIST. FES
22Q3-017D
(UIP)

PLAN SHEET LEGEND

- PROPOSED RIGHT-OF-WAY (NEW ROW)
- PERMANENT EASEMENT (PERM. ESM'T.)
- TEMPORARY CONSTRUCTION EASEMENT (T.C.E.)
- CONSTRUCTION LIMITS (SL)
- PROPOSED EPOXY URETHANE POLYMER OVERLAY
- SIDEWALK REMOVAL
- PROPOSED SIDEWALK
- PROPOSED MILL/OVERLAY

SHEET 8 OF 14

DRAINAGE PLAN SHEET

MO ROUTE 100
MANCHESTER ROAD

STATE OF MISSOURI
PROFESSIONAL ENGINEER
SANDRA MARIE WAGNER
NUMBER
PE-2010019606

Sandra M. Wagner

DATE PREPARED
2/6/2025

ROUTE	STATE
100	MO
DISTRICT	SHEET NO.
SL	296

COUNTY
ST. LOUIS

JOB NO.
J6P3274

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)

17 Cassens Ct.
Fenton, MO 63026
Tel (314) 932-1226
www.trekkdesigngroup.com
Missouri Cert. of Authority 2002010309

TREKK DESIGN GROUP, LLC

SCALE
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NOTE:

ALL PROPOSED STORM SEWERS ARE PUBLIC AND TO BE MAINTAINED BY MODOT.

MATCHLINE STA. 1551+00.00

MATCHLINE STA. 1556+00.00

BRAESHIRE DR

EXIST. R/W

EXIST. 48" PIPE (UIP)

EXIST. INLET (CONVERT TO MH)

EXIST. 48" PIPE (UIP)

EXIST. 24" PIPE (UIP)

EXIST. INLET 22Q3-219D (UIP)

EXIST. 24" PIPE (UIP)

EXIST. HEADWALL 22Q3-228D (UIP)

1553A
GRATE INLET 4FT X 2FT

LINE 1553-A

EXIST. 18" PIPE (UIP)

1553M
MANHOLE

EXIST. 18" PIPE (UIP)

EXIST. INLET 22Q3-221D (UIP)

EXIST. FES 22Q3-222D (UIP)

EXIST. 18" PIPE (UIP)

EXIST. MANHOLE 22Q3-216D (UIP)

EXIST. 12"PIPE (UIP)

EXIST. MANHOLE 22Q3-215D (UIP)

EXIST. 12" PIPE (UIP)

1555A
SHALLOW INLET 4FT X 2FT W/ PIPE AND SPLASH PAD

LINE 1555-A

1555F1
12IN FES
INV = 476.85
STA 1555+58.96
O/S 55.46' RT

66 LF OF 12" GROUP B PIPE

EXIST. 15" PIPE (UIP)

EXIST. MANHOLE NO MSD ID (UIP)

EXIST. 15" PIPE (UIP)

PLAN SHEET LEGEND

- PROPOSED RIGHT-OF-WAY (NEW ROW)
- PERMANENT EASEMENT (PERM. ESM'T.)
- TEMPORARY CONSTRUCTION EASEMENT (T.C.E.)
- CONSTRUCTION LIMITS (SL)
- PROPOSED EPOXY URETHANE POLYMER OVERLAY
- SIDEWALK REMOVAL
- PROPOSED SIDEWALK
- PROPOSED MILL/OVERLAY

SHEET 9 OF 14

DRAINAGE PLAN SHEET

MO ROUTE 100
MANCHESTER ROAD

STATE OF MISSOURI
SANDRA MARIE WAGNER
NUMBER PE-2010019606
PROFESSIONAL ENGINEER

Sandra M. Wagner

DATE PREPARED
2/6/2025

ROUTE	STATE
100	MO
DISTRICT	SHEET NO.
SL	297

COUNTY
ST. LOUIS

JOB NO.
J6P3274

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)

17 Cassens Ct.
Fenton, MO 63026
Tel (314) 932-1226
www.trekkdesigngroup.com
Missouri Cert. of Authority 2002010300

TREKK DESIGN GROUP, LLC

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NOTE:

ALL PROPOSED STORM SEWERS ARE PUBLIC AND TO BE MAINTAINED BY MODOT.

MATCHLINE STA. 1556+00.00

MATCHLINE STA. 1561+00.00

1560

ROCK LINING
5FT X 2FT

1558A2
SHALLOW INLET
4FT X 2FT W/ PIPE
AND SPLASH PAD

EXIST. R/W

LINE 1557-A

1556F1
12IN FES
INV = 477.93
STA 1556+37.31
O/S 54.43' RT

66 LF OF 12"
GROUP B PIPE

1557F1
12IN FES
INV = 478.81
STA 1557+29.77
O/S 50.05' RT

16 LF OF 12"
GROUP B PIPE

1557F2
12IN FES
INV = 479.17
STA 1557+58.21
O/S 50.47' RT

1558A1
SHALLOW INLET
4FT X 2FT W/ PIPE
AND SPLASH PAD

PLAN SHEET LEGEND

- PROPOSED RIGHT-OF-WAY (NEW ROW)
- PERMANENT EASEMENT (PERM. ESM'T.)
- TEMPORARY CONSTRUCTION EASEMENT (T.C.E.)
- CONSTRUCTION LIMITS (SL)
- PROPOSED EPOXY URETHANE POLYMER OVERLAY
- SIDEWALK REMOVAL
- PROPOSED SIDEWALK
- PROPOSED MILL/OVERLAY

SHEET 10 OF 14

DRAINAGE PLAN SHEET

MO ROUTE 100
MANCHESTER ROAD

STATE OF MISSOURI
SANDRA MARIE WAGNER
NUMBER PE-2010019606
PROFESSIONAL ENGINEER

Sandra M. Wagner

DATE PREPARED
3/27/2025

ROUTE	STATE
100	MO
DISTRICT	SHEET NO.
SL	298

COUNTY
ST. LOUIS

JOB NO.
J6P3274

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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TREKK DESIGN GROUP, LLC

SCALE

0 20 40 60

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MATCHLINE STA. 1561+00.00

MATCHLINE STA. 1566+00.00

1565

PC STA 1565+38.72

EXIST. R/W

GRADE TO DRAIN

ROCK LINING 8.5FT X 2FT

ROCK LINING 7.5FT X 2FT

ROCK LINING 7.5FT X 2FT

GRADE TO DRAIN

GRADE TO DRAIN

EXIST. 12" PIPE (UIP)

1561A3
SHALLOW INLET 4FT X 2FT W/ PIPE AND SPLASH PAD

1562A2
GRATE INLET 2FT X 2FT

1564A1
SHALLOW INLET 2FT X 2FT W/ PIPE AND SPLASH PAD

1564A2
SHALLOW INLET 2FT X 2FT W/ PIPE AND SPLASH PAD

1561A1
GRATE INLET 4FT X 2FT

1561A2
GRATE INLET 4FT X 2FT

1562A1
GRATE INLET 2FT X 2FT

LINE 1563-A

EXIST. INLET 23Q2-291D (R)

EXIST. INLET 23Q2-290D (UIP)

1562A3
GRATE INLET 2FT X 2 FT

EXIST. 15" PIPE (UIP)

EXIST. 15" PIPE (UIP)

EXIST. FES 23Q2-289D (UIP)

EXIST. 12" PIPE (UIP)

LINE-1562-A

1562S
DROP INLET 3FT X 2FT

EXIST. FES 23Q2-288D (R)

EXIST. 15" PIPE (R)

EXIST. INLET 23Q2-281D (UIP)

EXIST. SAN. MH 23Q2-205S (UIP) (HAZARDOUS STRUCTURE PER MSD BASEMAP)

EXIST. FES 23Q2-277D (UIP)

EX. TRENCH DRAIN 23Q2-282D (UIP)

EXIST. 15" PIPE (UIP)

EXIST. 18" PIPE (UIP)

EXIST. MANHOLE 23Q2-278D (UIP)

EXIST. 18" PIPE (UIP)

EXIST. 18" PIPE (UIP)

EX. SAN. MH 23Q2-206S (UIP) (HAZARDOUS STRUCTURE PER MSD BASEMAP)

PLAN SHEET LEGEND

- PROPOSED RIGHT-OF-WAY (NEW ROW)
- PERMANENT EASEMENT (PERM. ESM'T.)
- TEMPORARY CONSTRUCTION EASEMENT (T.C.E.)
- CONSTRUCTION LIMITS (SL)
- PROPOSED EPOXY URETHANE POLYMER OVERLAY
- SIDEWALK REMOVAL
- PROPOSED SIDEWALK
- PROPOSED MILL/OVERLAY

SHEET 11 OF 14

DRAINAGE PLAN SHEET

MO ROUTE 100
MANCHESTER ROAD

STATE OF MISSOURI
SANDRA MARIE WAGNER
NUMBER PE-2010019606
PROFESSIONAL ENGINEER

Sandra M. Wagner

DATE PREPARED
2/6/2025

ROUTE	STATE
100	MO
DISTRICT	SHEET NO.
SL	299

COUNTY
ST. LOUIS

JOB NO.
J6P3274

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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Fenton, MO 63026
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NOTE:

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STATE OF MISSOURI
SANDRA MARIE WAGNER
NUMBER PE-2010019606
PROFESSIONAL ENGINEER
Sandra M. Wagner

DATE PREPARED
2/6/2025

ROUTE	STATE
100	MO
DISTRICT	SHEET NO.
SL	300

COUNTY
ST. LOUIS

JOB NO.
J6P3274

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

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

MATCHLINE STA. 1566+00.00

MATCHLINE STA. 1571+00.00

EXIST. R/W

1570

EXIST. 12" PIPE (UIP)

EXIST. INLET NO MSD ID (UIP)

EXIST. 5.5' X 5' RCB (UIP)

EXIST. INLET 23Q2-154D (UIP)

EXIST. 30" PIPE (UIP)

EXIST. INLET 23Q2-155D (UIP)

EXIST. MANHOLE 23Q2-236D (UIP)

EXIST. 12" PIPE (UIP)

EXIST. 30" PIPE (UIP)

EXIST. INLET 23Q2-153D (ATG)

EXIST. 24" PIPE (UIP)

EXIST. SAN. MH 23Q2-0214S (UIP)

EXIST. 48" PIPE (UIP)

EXIST. SAN. MH. 23Q2-099S (UIP)

EXIST. INLET 23Q2-156D (UIP)

EXIST. SAN. MH 23Q2-100S (UIP)

EXIST. 24" PIPE (UIP)

EXIST. INLET 23Q2-228D (UIP)

EXIST. 15" PIPE (UIP)

EXIST. SAN. MH 23Q2-197S (UIP)

EXIST. SAN. MH 23Q2-202S (UIP)

EXIST. INLET 23Q2-237D (UIP)

EXIST. 24" PIPE (UIP)

EXIST. INLET 23Q2-227D (UIP)

EXIST. INLET 23Q2-235D (UIP)

EXIST. 12" PIPE (UIP)

EXIST. MANHOLE 23Q2-234D (ATG)

EXIST. 12" PIPE (UIP)

EXIST. INLET 23Q2-232D (ATG)

EXIST. 12" PIPE (UIP)

EXIST. SAN. MH 23Q2-122S (UIP)

EXIST. INLET 23Q2-233D (UIP)

EXIST. 12" PIPE (UIP)

EXIST. 15" PIPE (UIP)

EXIST. INLET 23Q2-224D (UIP)

EXIST. 15" PIPE (UIP)

EXIST. INLET 23Q2-226D (UIP)

EXIST. INLET 23Q2-225D (UIP)

EXIST. 15" PIPE (UIP)

PLAN SHEET LEGEND

- PROPOSED RIGHT-OF-WAY (NEW ROW)
- PERMANENT EASEMENT (PERM. ESM'T.)
- TEMPORARY CONSTRUCTION EASEMENT (T.C.E.)
- CONSTRUCTION LIMITS (SL)
- PROPOSED EPOXY URETHANE POLYMER OVERLAY
- SIDEWALK REMOVAL
- PROPOSED SIDEWALK
- PROPOSED MILL/OVERLAY

SHEET 12 OF 14

DRAINAGE PLAN SHEET

MO ROUTE 100
MANCHESTER ROAD

DATE	DESCRIPTION

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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

MoDOT

17 Cassens Ct.
Fenton, MO 63026
Tel (314) 932-1226
www.trekdesigngroup.com
Missouri Cert. of Authority 2002010390

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PT STA 7+05.75

EXIST. 12" PIPE (UIP)
EXIST. INLET 22P2-126D (UIP)
EXIST. 60" PIPE (UIP)
EXIST. STORM MH 22P2-108D (UIP)
EXIST. 36" PIPE (UIP)
EXIST. MANHOLE 22P2-086D (UIP)
EXIST. 24" PIPE (UIP)
EXIST. INLET NO MSD ID (UIP)
EXIST. SAN. MH 22P2-103S (UIP)
EXIST. SAN. MH 22P2-102S (UIP)
EXIST. 15" PIPE (UIP)
PC STA 6+19.13
EXIST. 24" PIPE (UIP)
EXIST. INLET 22P2-087D (UIP)
EXIST. INLET 22P2-088D (UIP)
EXIST. 15" PIPE (UIP)
EXIST. MANHOLE 22P2-099S (UIP)
EXIST. MANHOLE 22P2-094D (UIP)
EXIST. INLET 22P2-090D (UIP)
EXIST. 18" PIPE (UIP)
EXIST. INLET 22P2-089D (UIP)
EXIST. 21" PIPE (UIP)
EXIST. 21" PIPE (UIP)
EXIST. 15" PIPE (UIP)
EXIST. INLET 22P2-095D (UIP)
EXIST. R/W
MATCHLINE STA. 1455+00.00
MATCHLINE STA. 1460+00.00
POINTE DR
S 45°39'55" E
MILL/OVERLAY
℄ ROUTE 100 WB
STA. 5+00.00 POINTE DR. = STA. 1458+9.82 ROUTE 100 WB
1455F 15IN FES
1455M MANHOLE
EXIST. FES 22P2-0180D (UIP)
EXIST. DITCH (UIP)
LINE 1455-A
EXIST. FES 22P2-0179D (R)
EXIST. 15" PIPE (UIP)
DRWY STA. 1456+47.00 RT NO IMPROVEMENTS
EXIST. DITCH (UIP)
EXIST. R/W
EXIST. R/W

NOTE:

ALL PROPOSED STORM SEWERS ARE PUBLIC AND TO BE MAINTAINED BY MODOT.

PLAN SHEET LEGEND

- PROPOSED RIGHT-OF-WAY (NEW ROW)
- PERMANENT EASEMENT (PERM. ESM'T.)
- TEMPORARY CONSTRUCTION EASEMENT (T.C.E.)
- CONSTRUCTION LIMITS (SL)
- PROPOSED EPOXY URETHANE POLYMER OVERLAY
- SIDEWALK REMOVAL
- PROPOSED SIDEWALK
- PROPOSED MILL/OVERLAY

SHEET 13 OF 14

DRAINAGE PLAN SHEET

MO ROUTE 100
MANCHESTER ROAD

STATE OF MISSOURI
SANDRA MARIE WAGNER NUMBER PE-2010019606
PROFESSIONAL ENGINEER
Sandra M. Wagner

DATE PREPARED
2/6/2025

ROUTE	STATE
100	MO
DISTRICT	SHEET NO.
SL	301

COUNTY
ST. LOUIS

JOB NO.
J6P3274

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)

17 Cassens Ct,
Fenton, MO 63026
Tel (314) 932-1226
www.trekkdesigngroup.com
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MATCHLINE STA. 1465+00.00

MATCHLINE STA. 1470+00.00

1466F2
12IN FES

EXIST. R/W

LINE 1466-A

1466F1
12IN FES

EXIST. INLET
22P2-109D
(UIP)

EXIST. DITCH
(UIP)

EXIST. 12"
PIPE (UIP)

EXIST. INLET
22P2-122D
(UIP)

ROUTE 100 RAMP

EXIST. AGGR. DITCH (UIP)

EXIST. INLET
22P2-123D
(UIP)

MILL/OVERLAY

℄ ROUTE 100 WB

S24°18'46"W

EXIST. DITCH (UIP)

EXIST. 18 IN PIPE
(UIP)

EXIST. FES
22P2-121D
(UIP)

EXIST. R/W

NOTE:

ALL PROPOSED STORM SEWERS ARE PUBLIC AND TO BE MAINTAINED BY MODOT.

PLAN SHEET LEGEND

- PROPOSED RIGHT-OF-WAY (NEW ROW)
- PERMANENT EASEMENT (PERM. ESM'T.)
- TEMPORARY CONSTRUCTION EASEMENT (T.C.E.)
- CONSTRUCTION LIMITS (SL)
- PROPOSED EPOXY URETHANE POLYMER OVERLAY
- SIDEWALK REMOVAL
- PROPOSED SIDEWALK
- PROPOSED MILL/OVERLAY

SHEET 14 OF 14

DRAINAGE PLAN SHEET

MO ROUTE 100
MANCHESTER ROAD

STATE OF MISSOURI
SANDRA MARIE WAGNER
NUMBER PE-2010019606
PROFESSIONAL ENGINEER

Sandra M. Wagner

DATE PREPARED
2/6/2025

ROUTE	STATE
100	MO
DISTRICT	SHEET NO.
SL	302

COUNTY
ST. LOUIS

JOB NO.
J6P3274

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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105 WEST CAPITOL
JEFFERSON CITY, MO 65102
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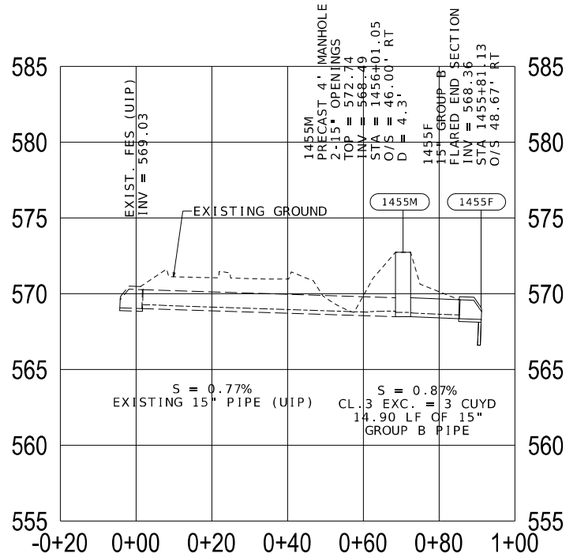
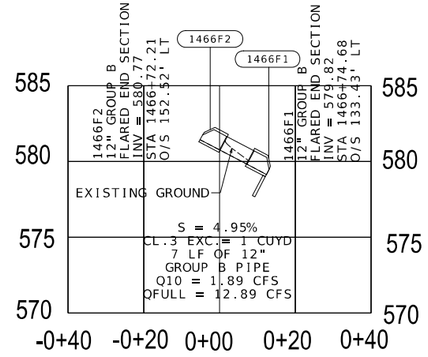
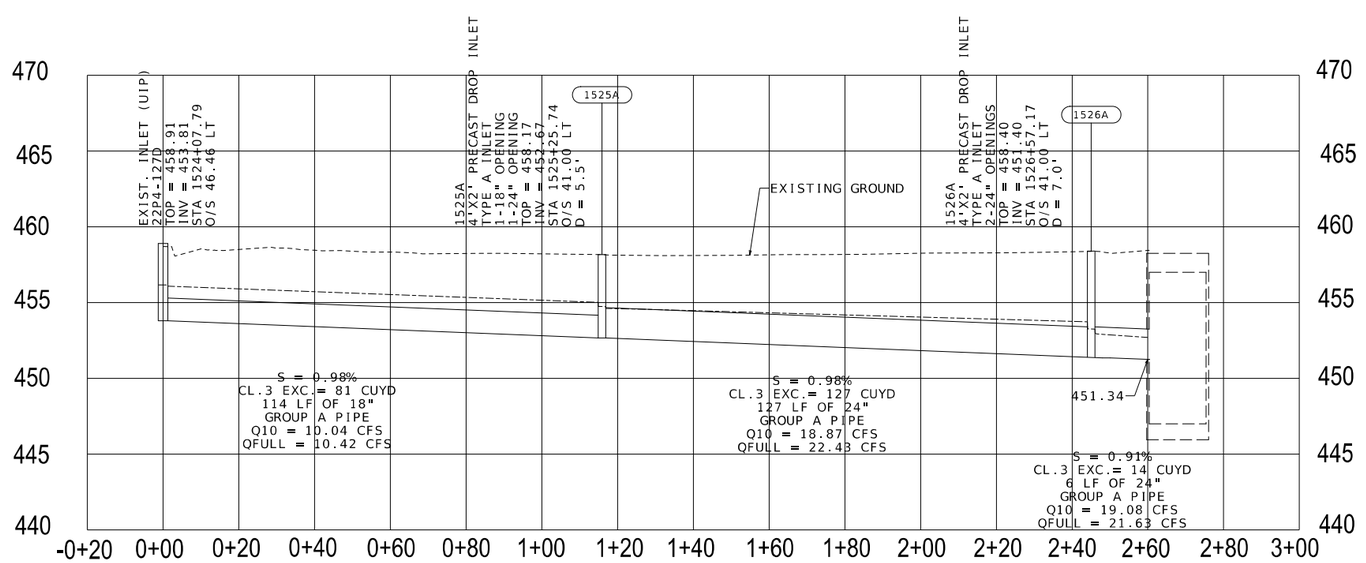


LINE 1455-A



LINE 1466-A



LINE 1526-A

NOTES:
1. ALL STORM SEWERS ARE PUBLIC AND TO BE MAINTAINED BY MODOT.
2. MAHOLE AND INLET STATION, OFFSET, AND TOP ELEVATION ARE TO THE CENTER OF THE STRUCTURE.
3. FES STATION AND OFFSET ARE AT THE CENTER OF THE OPEN END OF THE STRUCTURE.

SHEET 1 OF 4

PIPE PROFILE

MO ROUTE 100
MANCHESTER ROAD

SANDRA MARIE WAGNER
NUMBER PE-2010019606
STATE OF MISSOURI
PROFESSIONAL ENGINEER
Sandra M. Wagner

DATE PREPARED
2/6/2025

ROUTE	STATE
100	MO
DISTRICT	SHEET NO.
SL	303

COUNTY
ST. LOUIS

JOB NO.
J6P3274

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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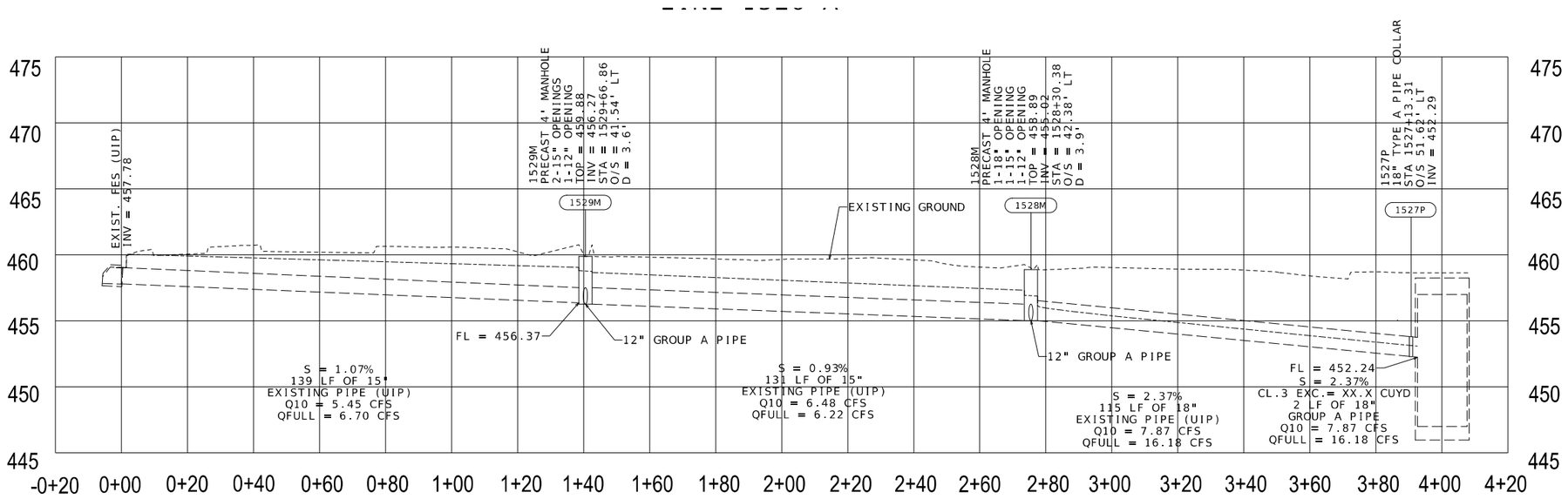
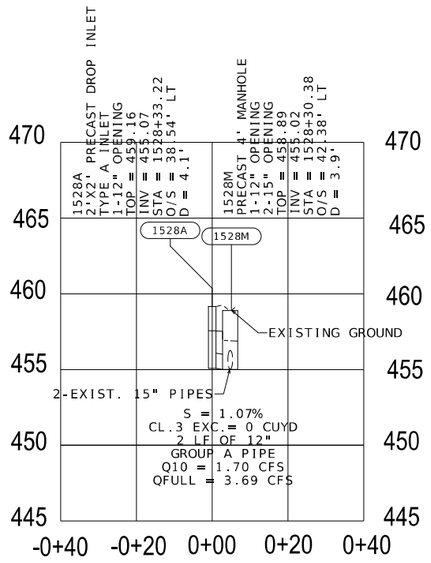
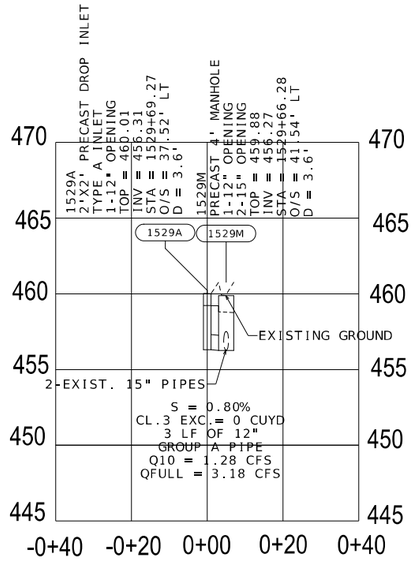


LINE 1526-B



LINE 1528-A



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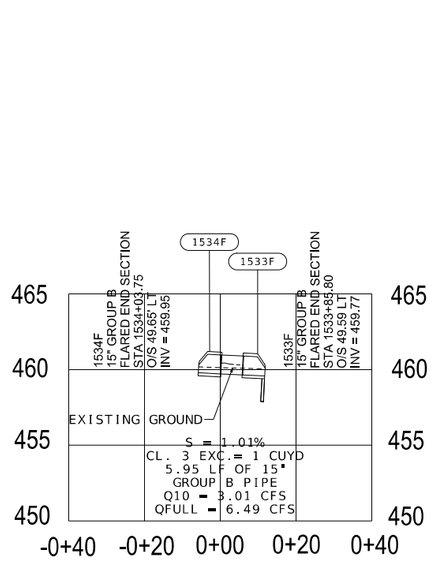

LINE 1533-A

NOTES:
1. ALL STORM SEWERS ARE PUBLIC AND TO BE MAINTAINED BY MODOT.
2. MAHOLE AND INLET STATION, OFFSET, AND TOP ELEVATION ARE TO THE CENTER OF THE STRUCTURE.
3. FES STATION AND OFFSET ARE AT THE CENTER OF THE OPEN END OF THE STRUCTURE.

STATE OF MISSOURI
SANDRA MARIE WAGNER
NUMBER PE-2010019606
PROFESSIONAL ENGINEER

DATE PREPARED
2/6/2025

ROUTE	STATE
100	MO
DISTRICT	SHEET NO.
SL	304

COUNTY
ST. LOUIS

JOB NO.
J6P3274

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)

TREKK DESIGN GROUP, LLC
17 Cassens Ct.
Fenton, MO 63026
Tel (314) 932-1226
www.trekkdesigngroup.com
Missouri Cert. of Authority 2002010300

SHEET 2 OF 4

PIPE PROFILE

MO ROUTE 100
MANCHESTER ROAD

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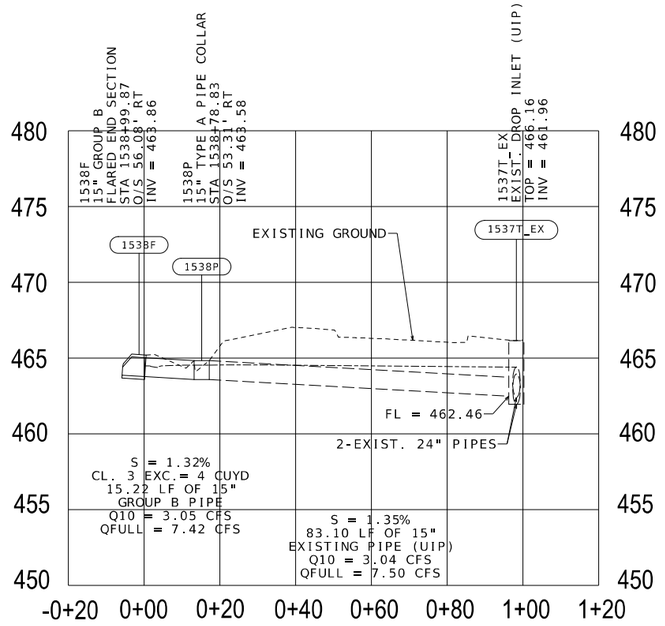
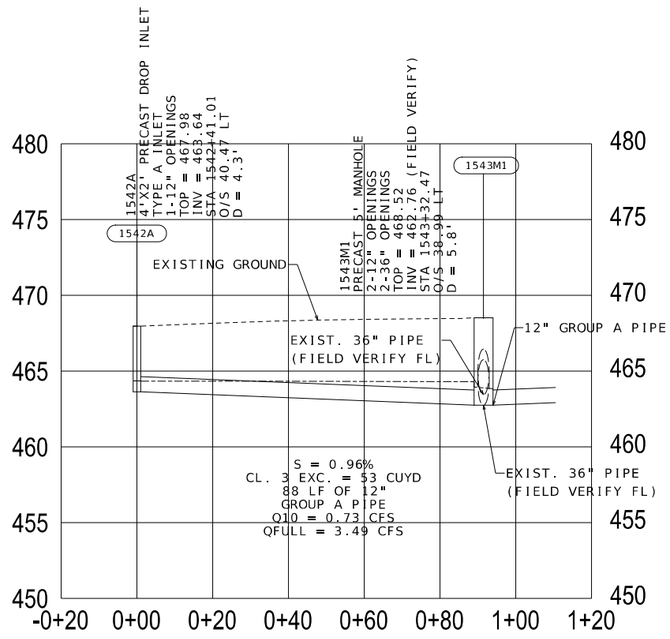
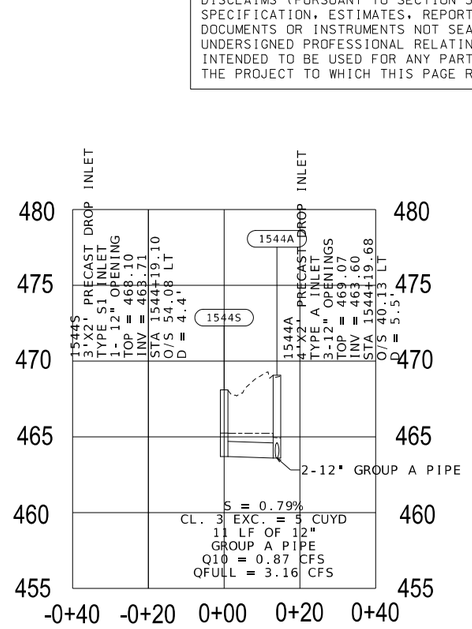


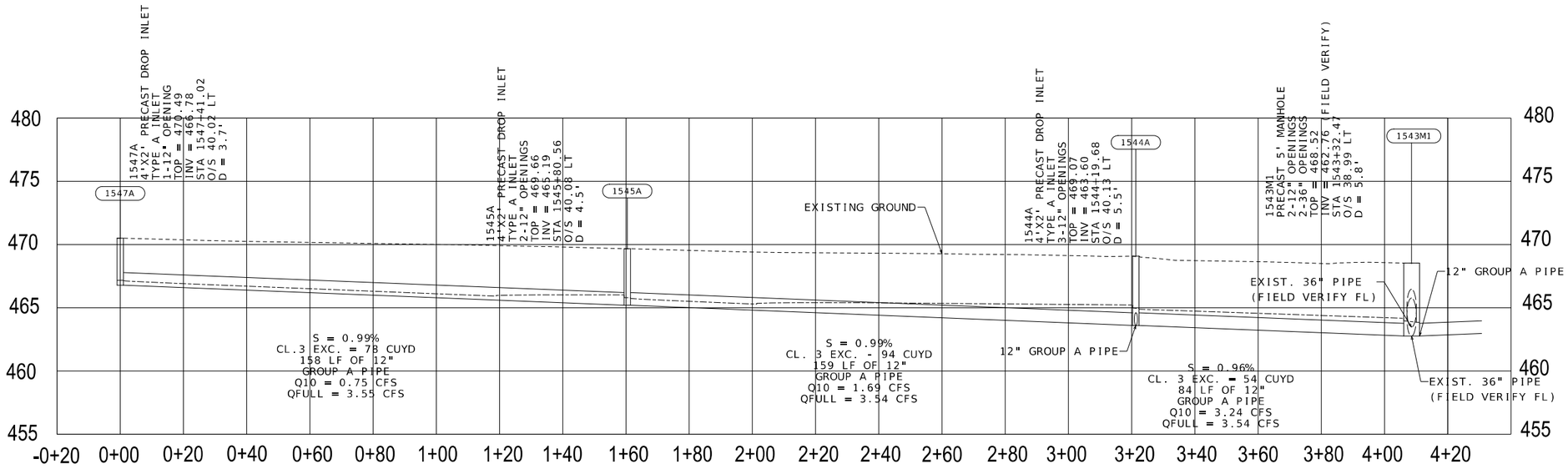
LINE 1538-A



LINE 1543-A



LINE 1544-A



LINE 1543-B

NOTES:
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SHEET 3 OF 4

PIPE PROFILE

MO ROUTE 100
MANCHESTER ROAD

STATE OF MISSOURI
SANDRA MARIE WAGNER
NUMBER PE-2010019606
PROFESSIONAL ENGINEER

DATE PREPARED
2/6/2025

ROUTE	STATE
100	MO
DISTRICT	SHEET NO.
SL	305

COUNTY
ST. LOUIS

JOB NO.
J6P3274

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)

17 Cassens Ct.
Fenton, MO 63026
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www.trekdesigngroup.com
Missouri Cert. of Authority 2002010300

DESIGN GROUP, LLC

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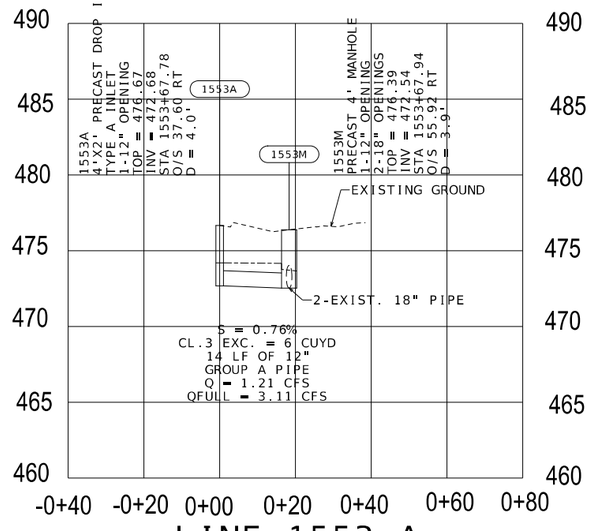
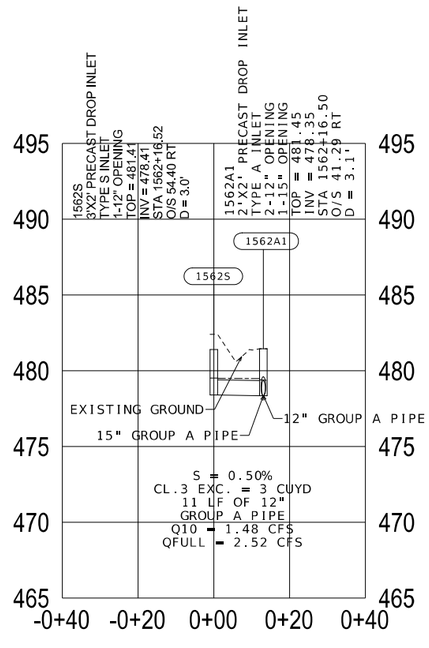
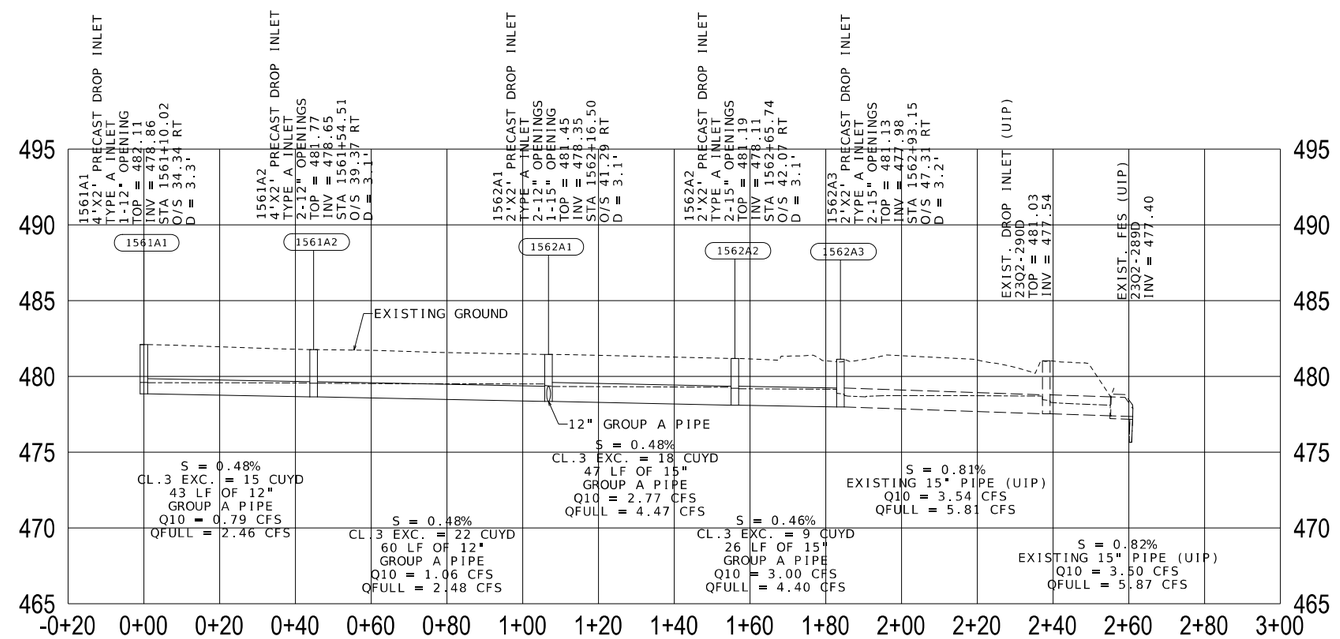


LINE 1553-A



LINE 1562-A



LINE 1563-A

NOTES:
1. ALL STORM SEWERS ARE PUBLIC AND TO BE MAINTAINED BY MODOT.
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3. FES STATION AND OFFSET ARE AT THE CENTER OF THE OPEN END OF THE STRUCTURE.

SHEET 4 OF 4

PIPE PROFILE

MO ROUTE 100
MANCHESTER ROAD

STATE OF MISSOURI
SANDRA MARIE WAGNER
NUMBER PE-2010019606
PROFESSIONAL ENGINEER

Sandra M. Wagner

DATE PREPARED
2/6/2025

ROUTE	STATE
100	MO
DISTRICT	SHEET NO.
SL	306

COUNTY
ST. LOUIS

JOB NO.
J6P3274

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DESCRIPTION	DATE

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MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

105 WEST CAPITOL
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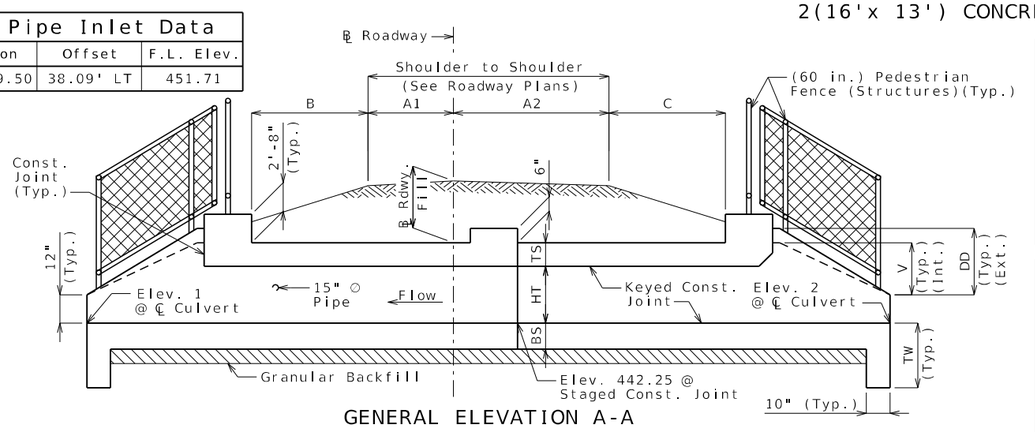
Tel (314) 932-1226
www.trekdesigngroup.com
Missouri Cert. of Authority 2002010300

TREK DESIGN GROUP, LLC

2(16'x 13') CONCRETE BOX CULVERT

SEC/SUR 32 TWP 45N RGE 5E

15" Pipe Inlet Data		
Station	Offset	F.L. Elev.
1493+89.50	38.09' LT	451.71



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.

Layout Dimensions

Var.	Equation	Dim.	Var.	Equation	Dim.	Var.	Equation	Dim.
S	- - -	16'-0"	A1	- - -	32'-9¾"	G	- - -	27'-1"
HT	- - -	13'-0"	A2	- - -	47'-2¼"	V	HT + TS - 12"	13'-3"
TS	- - -	15"	B	- - -	13'-4¼"	W	A1 + A2 + B + C + 2E	163'-9"
BS	- - -	13"	C	- - -	12'-4¾"	TW	Max{3'-4" or (BS + 12")}	3'-4"
TX	- - -	9"	E	G + 23"	29'-0"	DD	- - -	15'-5"
TI	- - -	10"	F	2S + 2TX + TI	34'-4"			

Hydrologic Data

Drainage Area = 3.4 mi²
Design Flood Frequency = 50 years
Design Flood Discharge = 2300 cfs
Design Flood (D.F.) Elevation = 452.2
Base Flood (100-year)
Base Flood Elevation = 453.2
Base Flood Discharge = 2700 cfs
Estimated Backwater = 1.4 ft
Outlet Velocity = 13.3 ft/s
Roadway Overtopping
Overtopping Flood Discharge = >3600 cfs
Overtopping Flood Frequency = >500 years
Overtopping Flood Elevation = 455.7

Elevations

Downstream (Elev. 1) = 442.00
Upstream (Elev. 2) = 442.50
Pr. Gr. at Tie Sta. = 459.10

Fill Heights

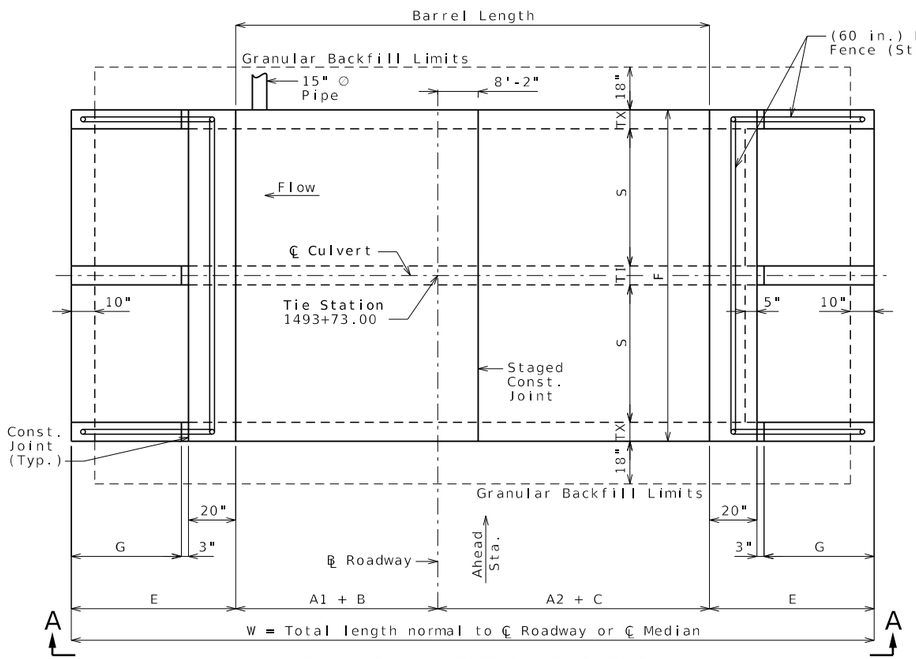
℄ Rdwy at ℄ Culvert = 2.62 ft
Design (All units) = 1.0 ft

Dimensions are based on end units.
Fill heights are measured from the top of top slab to the top of earth fill or roadway.

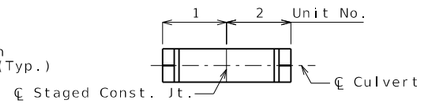
Estimated Quantities

			Final
Class 4 Excavation	cu. yard	664	
Temporary Shoring	lump sum	1	
Dewatering *	lump sum	1	
Removal of Bridges (F0181)	lump sum	1	
(60 in.) Pedestrian Fence (Structures)	linear foot	195	
Class B-1 Concrete (Culverts-Bridge)	cu. yard	580.8	
Reinforcing Steel (Culverts-Bridge)	pound	82,750	
Mechanical Bar Splice	each	141	

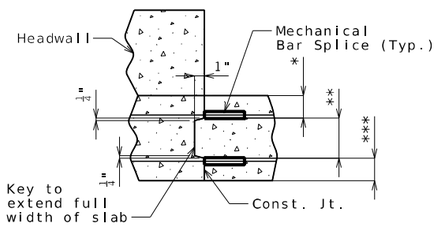
* See Job Special Provisions (Bridge).



PLAN OF LAYOUT DIMENSIONS

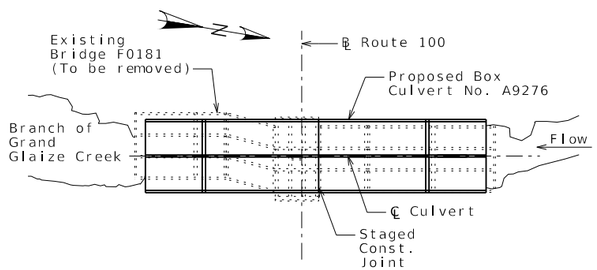


PLAN OF STAGED CONSTRUCTION



STAGED CONSTRUCTION JOINT DETAIL

* 3 1/4" Top Slab
2 3/4" Bottom Slab
** 9" Top Slab
6" Bottom Slab
*** 2 3/4" Top Slab
4 1/4" Bottom Slab



LOCATION SKETCH

General Notes:

Design Specifications:
2010 AASHTO LRFD Bridge Design Specifications and 2010 Interim Revisions

Design Loading:
Vehicular = HL-93 minus lane load, 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, 703.40, 703.46, 703.47, 703.60, 706.35

Miscellaneous:
See Job Special Provisions (Bridge) for Construction Requirements.

Concrete box culvert shall be cast-in-place.

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)

For utility relocations in the vicinity of this bridge, see roadway job special provisions for more information and timeline.

Traffic Handling:
Traffic to be maintained on structure during construction. See roadway plans for traffic control and Sheet No. 2 for staged construction details.

CULVERT-BRIDGE: ROUTE 100 OVER BRANCH OF GRAND GLAIZE CREEK

ROUTE 100 FROM ROUTE 141 TO ROUTE I-270
ABOUT 1.5 MILES WEST OF ROUTE I-270
TIE STA. 1493+73.00

Designed May 2024
Detailed May 2024
Checked May 2024

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

STATE OF MISSOURI
RYAN G. HAGERTY
NUMBER PE-2016034015
PROFESSIONAL ENGINEER
THIS SHEET HAS BEEN SIGNED, SEALED, AND DATED ELECTRONICALLY

DATE PREPARED 1/28/2025
ROUTE 100 | STATE MO
DISTRICT BR | SHEET NO. 1
COUNTY ST. LOUIS
JOB NO. J6P3274
CONTRACT ID.
PROJECT NO.
BRIDGE NO. A9276

DESCRIPTION | DATE

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

GBA
16305 SWINGLEY RIDGE RD
ST. 300
CHESTERFIELD, MO 63017
314.231.0100
GBAteam.com

GEORGE BUTLER ASSOCIATES, INC.
PRO. ENGINEER 000133
ARCHITECT 000212
PRO. LAND SURVEYOR 000059

RYAN G. HAGERTY
PROFESIONAL ENGINEER
PE-2016034015

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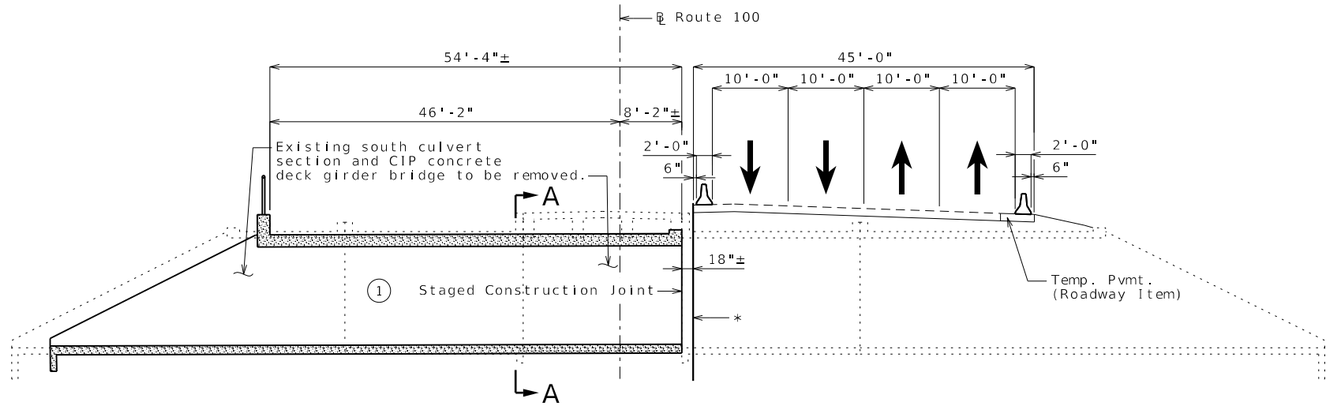
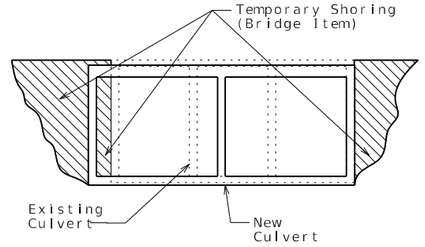
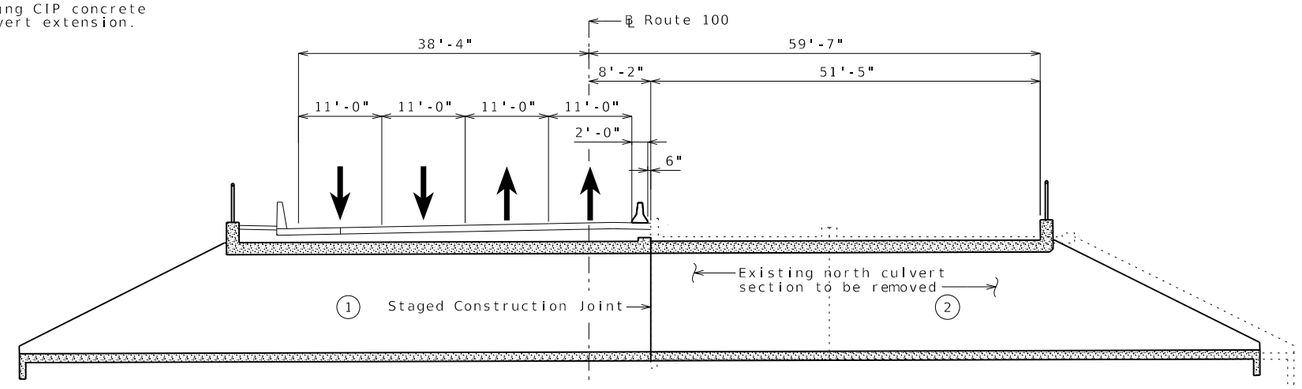


SECTION SHOWING STAGE 1 CONSTRUCTION

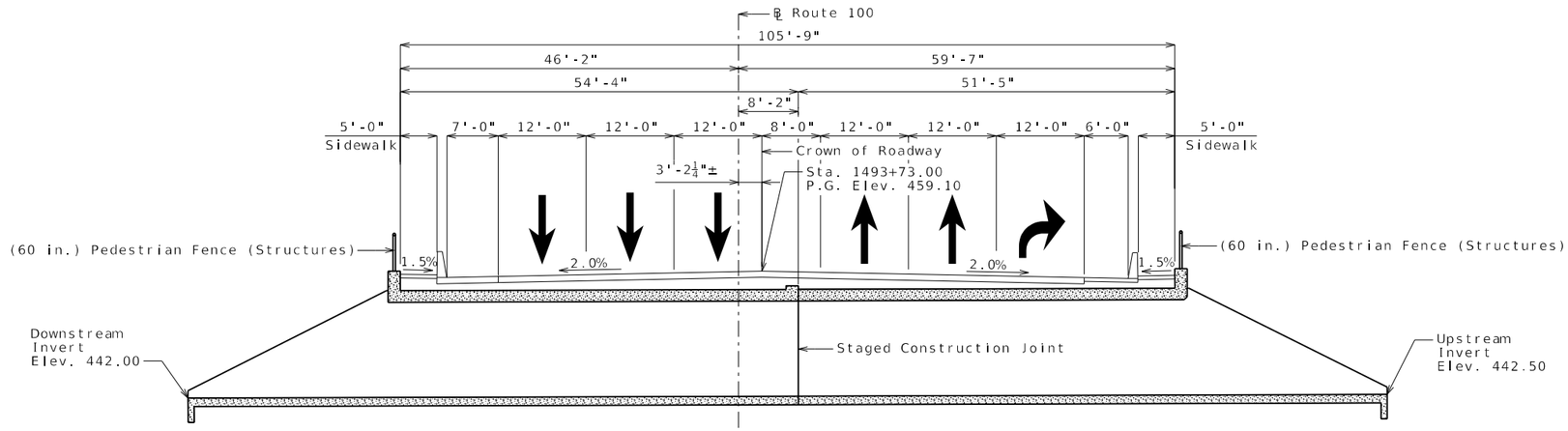


SECTION A-A

* Removal line and temporary shoring to be located at existing construction joint between existing CIP concrete deck girder bridge and existing north culvert extension.



SECTION SHOWING STAGE 2 CONSTRUCTION



FINAL SECTION

DETAILS OF REMOVAL AND STAGED CONSTRUCTION

Note:

All dimensions are at ℄ culvert.

Pavement, fill, barriers and sidewalks shown above culvert are Roadway Items.

Detailed May 2024
Checked May 2024

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

STATE OF MISSOURI
RYAN G. HAGERTY
NUMBER PE-2016034015
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED, AND DATED ELECTRONICALLY

DATE PREPARED
1/28/2025

ROUTE	STATE
100	MO

DISTRICT	SHEET NO.
BR	2

COUNTY
ST. LOUIS

JOB NO.
J6P3274

CONTRACT ID.

PROJECT NO.

BRIDGE NO.
A9276

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)

GBA
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CHESTERFIELD, MO 63017
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GEORGE BUTLER
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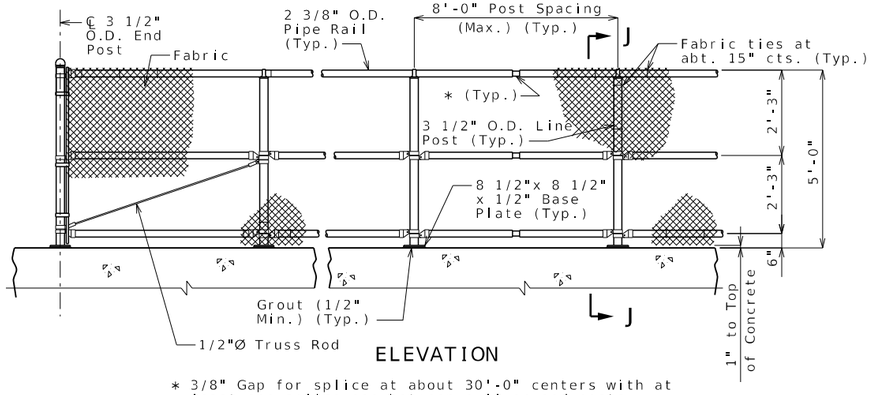
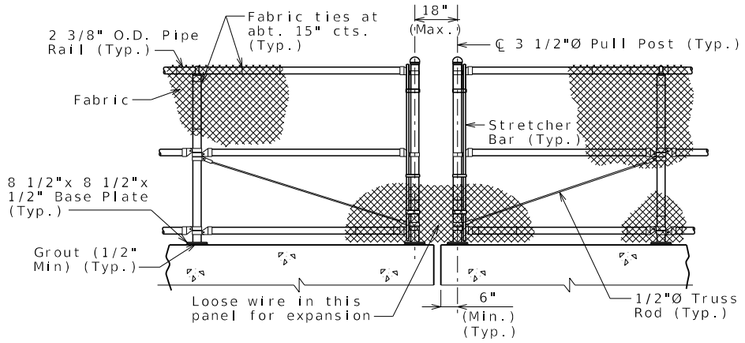
PRO. ENGINEER 000133
ARCHITECT 000212
PRO. LAND SURVEYOR 000059

RYAN G. HAGERTY
PROFESIONAL
ENGINEER
PE-2016034015

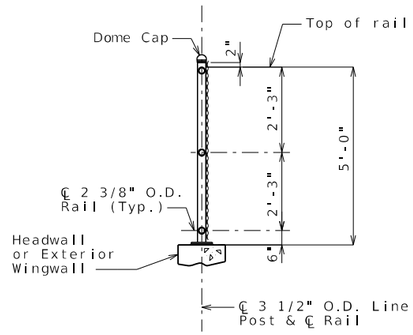


ELEVATION

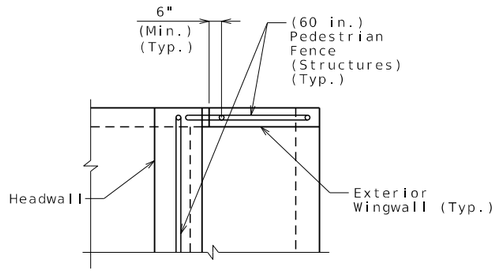
* 3/8" Gap for splice at about 30'-0" centers with at least one splice gap between pull or end posts.



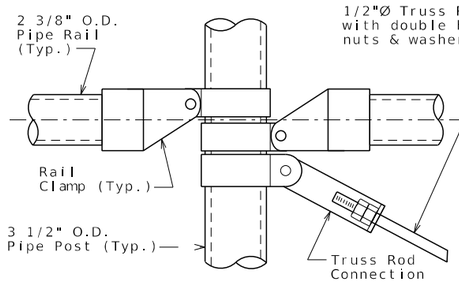
ELEVATION AT EXPANSION GAP



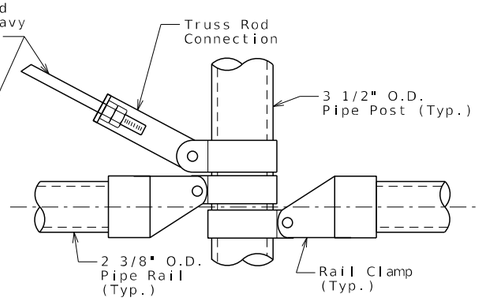
SECTION J-J



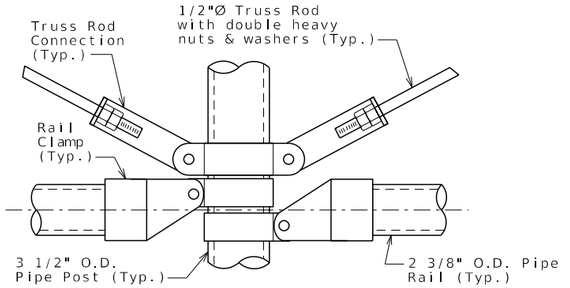
FENCE AT HEADWALL/EXTERIOR WINGWALL DETAIL



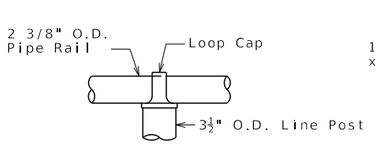
UPPER TRUSS ROD CONNECTION DETAIL



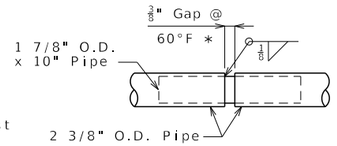
LOWER TRUSS ROD CONNECTION DETAIL



DUAL LOWER TRUSS ROD CONNECTION DETAIL

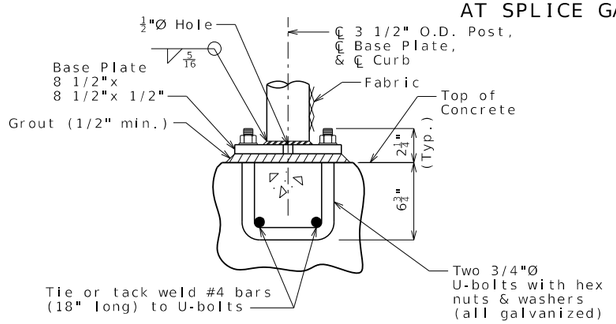


DETAIL A



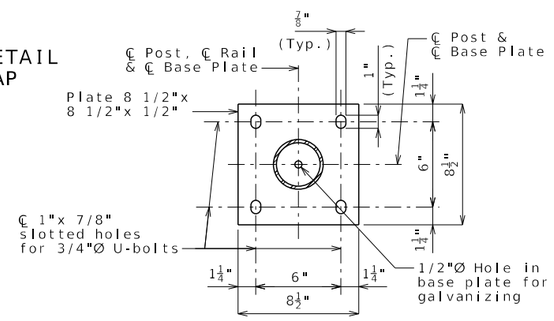
TYPICAL RAIL DETAIL AT SPLICE GAP

Note: At the contractor's option, manufacturer-approved expansion coupling may be used in lieu of detail shown. No additional payment will be made for this substitution.



POST CONNECTION (TYPICAL)

Note: Base plate shall be welded to the post prior to galvanizing the post with base plate.



PLAN OF BASE PLATE

GENERAL NOTES:

Pedestrian chain link fence shall be in accordance with Sec 1043 except all fabric shall have the top and bottom edges knuckled and pipe members shall be in accordance with ASTM F1043, high strength grade (minimum yield = 50 ksi) heavy industrial steel pipe Group 1A.

All posts shall be vertical. Grout shall be placed under the post base plates in accordance with Sec 1066.

Payment for furnishing, galvanizing and erecting the fence and frame complete in place will be considered completely covered by the contract unit price for (60 in.) Pedestrian Fence (Structures) per linear foot.

Dimensions of pedestrian chain link fence are measured horizontally.

The maximum spacing allowed between pull posts and end posts is 100 feet. Post brace and 1/2-inch diameter truss rod are required for panels adjacent to pull post and end posts only. Connect the lower end of truss rod to bottom of pull posts and end posts to which the stretcher bar is attached.

Rail clamps, dome cap, bands, tie wires, stretcher bars and truss rod connections shall be in accordance with the manufacturer's recommendations. The truss rod and truss rod connections shall have a minimum capacity of 2000 pounds. Dome cap shall fit tightly.

Expansion joints shall be placed in the horizontal pieces at not more than 30-foot centers and at all joint filler locations in the curb with a minimum gap of 3/8 inch at 60 degrees F.

Steel for truss rods shall be ASTM A709 Grade 36. Steel for base plates shall be ASTM A709 Grade 50.

(60 in.) Pedestrian Fence (Structures) will be measured to the nearest linear foot for each end measured along the outside edge of the headwall from end to end and the sloped lengths of the exterior wing walls.

Contractor shall submit complete detailed shop drawings in accordance with Sec 1080.

All base plates, U bolts, hex nuts and washers shall be galvanized in accordance with ASTM A123 and Sec 1081.

U bolts shall be ASTM F1554 Grade 36.

Chain link wire fabric shall be 9 gage minimum, 2-inch diamond mesh.

The chain link fence shall be built in accordance with Sec 607 & Sec 1043.

PEDESTRIAN CHAIN LINK FENCE

Detailed May 2024
Checked May 2024

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

STATE OF MISSOURI
RYAN G. HAGERTY
NUMBER PE-2016034015
PROFESSIONAL ENGINEER
THIS SHEET HAS BEEN SIGNED, SEALED, AND DATED ELECTRONICALLY

DATE PREPARED 1/28/2025
ROUTE 100 | STATE MO
DISTRICT BR | SHEET NO. 3
COUNTY ST. LOUIS
JOB NO. J6P3274
CONTRACT ID.
PROJECT NO.
BRIDGE NO. A9276

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)

GBA
16305 SWINGLEY RIDGE RD
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CHESTERFIELD, MO 63017
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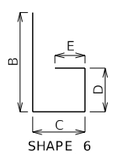
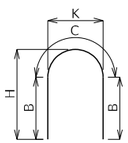
GEORGE BUTLER ASSOCIATES, INC.
PRO. ENGINEER 000133
ARCHITECT 000212
PRO. LAND SURVEYOR 000059

RYAN G. HAGERTY
PROFESSIONAL ENGINEER
PE-2016034015



SHAPE 6
or 6S



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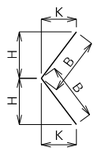

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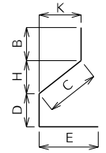

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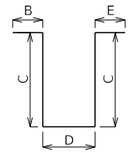

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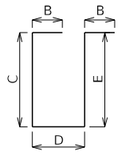

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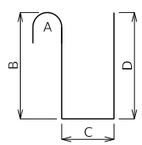

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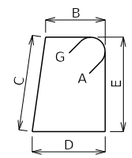

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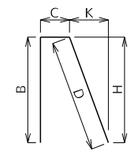

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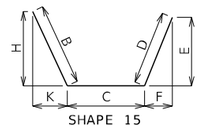

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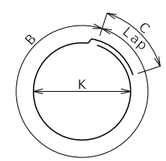

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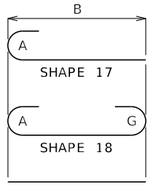
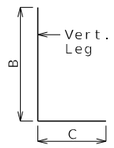


SHAPE 17
SHAPE 18
SHAPE 20



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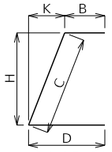

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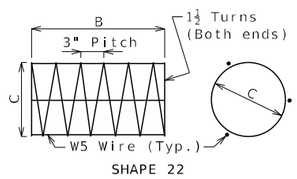

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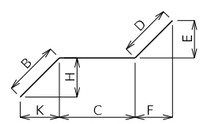

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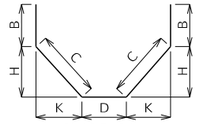

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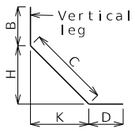

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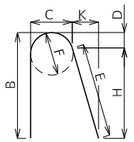

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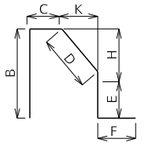

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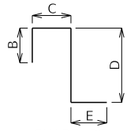

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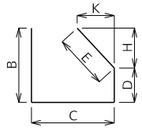

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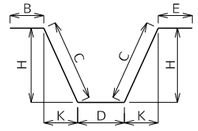

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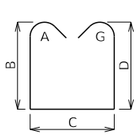

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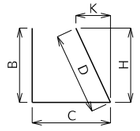

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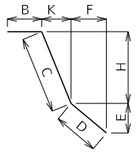

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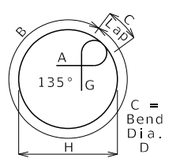

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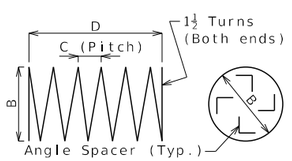

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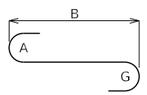
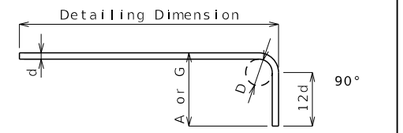


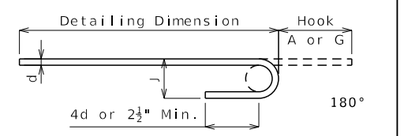
SHAPE 36

Finished Bend Diameters D and Hook Dimensions

Standard Pin Bend Shapes

Size	Case	D	A or G		J
			90°	180°	180°
#4	1	3"	8"	6"	4"
#5	1	3¾"	10"	7"	5"
#6	1	4½"	12"	8¼"	6"
#7	2	5¼"	14"	9¾"	7"
	3	7"	15"	11½"	8¾"
#8	2	6"	16"	11"	8"
	3	8"	17"	13¾"	10"
#9	1	9½"	19½"	15½"	11¾"
#10	1	10¾"	22"	17½"	13¼"
#11	1	12"	24½"	19½"	14⅞"
#14	1	18¾"	31¼"	27½"	21⅝"
#18	1	24"	41½"	36¼"	28½"



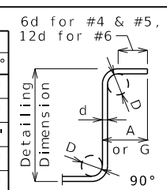


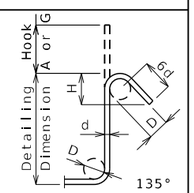
Stirrup Pin Bend Shapes (S)

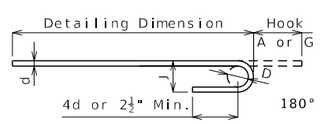
Size	Case	D	A or G			H	J
			90°	135°	180°	135°	180°
#4	2	2"	4½"	4½"	5"	2⅜"	3"
	3	3"	5"	5¼"	6"	3"	4"
#5	2	2½"	5¾"	5¾"	5¾"	3⅝"	3¾"
	3	3¾"	6¼"	6½"	7"	3⅞"	5"
#6	1	4½"	12"	7¾"	8¼"	4⅝"	6"

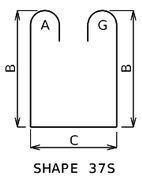
Applicable for all grades of steel.

Case 1 applies to all reinforcement. Case 2 applies to all reinforcement except for galvanized bars. Case 3 applies to galvanized bars only.

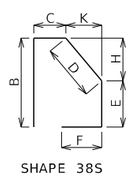








SHAPE 37S



SHAPE 38S

BENDING DIAGRAMS

All dimensions are out to out.

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

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

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

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

Reinforcing Steel Totals (Pounds)

		Substructure		Superstructure				Entire Bridge	
				Slab			Slip		
	Size	Plain	Epoxy	Plain	Epoxy	Barrier	Form	Plain	Epoxy
By Size	W5	0	0	0	0	0	0	0	0
	4	12673	0	0	0	0	0	12673	0
	5	29343	0	0	0	0	0	29343	0
	6	38352	0	0	0	0	0	38352	0
	7	1658	0	0	0	0	0	1658	0
	8	545	0	0	0	0	0	545	0
	9	183	0	0	0	0	0	183	0
	10	0	0	0	0	0	0	0	0
	11	0	0	0	0	0	0	0	0
	14	0	0	0	0	0	0	0	0
	18	0	0	0	0	0	0	0	0
By Type		82754	0	0	0	0	0	82754	0

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

BENDING DIAGRAMS AND REINFORCING STEEL TOTALS

Detailed May 2024
Checked May 2024

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

STATE OF MISSOURI
RYAN G. HAGERTY
NUMBER PE-2016034015
PROFESSIONAL ENGINEER
THIS SHEET HAS BEEN SIGNED, SEALED, AND DATED ELECTRONICALLY

DATE PREPARED 1/28/2025
ROUTE 100 | STATE MO
DISTRICT BR | SHEET NO. 4
COUNTY ST. LOUIS
JOB NO. J6P3274
CONTRACT ID.
PROJECT NO.
BRIDGE NO. A9276

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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16305 SWINGLEY RIDGE RD
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CHESTERFIELD, MO 63017
314.231.0100
GBAteam.com

GEORGE BUTLER
ASSOCIATES, INC.
PRO. ENGINEER 000133
ARCHITECT 000212
PRO. LAND SURVEYOR 000059

RYAN G. HAGERTY
PROFESIONAL
ENGINEER
PE-2016034015

Bill of Reinforcing Steel

No. Req.	Size/ Mark	Location	Codes C	SH	V	Dimensions B ft in.	C ft in.	D ft in.	E ft in.	F ft in.	H ft in.	K ft in.	Nom. Length ft in.	Actual Length ft in.	Weight lb
		UNIT 1													
90	6 A1	TOP SLAB		20		34 0.00							34 0	34 0	4596
167	5 A2	BOTTOM SLAB		20		34 0.00							34 0	34 0	5922
141	4 F1	BARREL		20		55 10.00							55 10	55 10	5259
37	4 F4	BOTTOM SLAB		20		29 3.00							29 3	29 3	723
20	4 F5	WING		20	2	10 6.00							10 6	10 6	261
		INCR = 24"				28 6.00							28 6	28 6	
20	4 F6	WALL		20	2	6 11.00							6 11	6 11	235
		INCR = 28.5"				28 3.50							28 4	28 4	
44	6 H1	TOP SLAB		20		25 11.00							25 11	25 11	1713
43	6 H2	TOP SLAB		20		8 11.00							8 11	8 11	576
167	6 H3	BOTTOM SLAB		20		11 8.00							11 8	11 8	2926
4	7 J1	WING		20		33 4.00							33 4	33 4	273
224	5 J3	TOP SLAB		19		2 11.00	6 5.50						9 5	9 3	2161
224	6 J4	BOTTOM SLAB		19		13 9.00	7 5.50						21 2	21 1	7093
106	6 J5	WING		19	2	2 3.25	7 5.50						9 9	9 7	2733
		INCR = 3.5"				17 5.25	7 5.50						24 11	24 9	
8	7 J6	WALL		14		15.00	21.00	31 2.50			15 8.00	27 0.00	34 2	34 0	556
118	5 B1	WALL		21		14 11.00	12.00	12.00			14 11.00		16 11	16 8	2051
158	5 B2	WALL		21		14 11.00	12.00	12.00			14 11.00		16 11	16 8	2747
4	8 D1	HEADWALL		20		34 0.00							34 0	34 0	363
4	9 D2	HEADWALL		20		9 0.00							9 0	9 0	122
8	5 D3	HEADWALL		20		34 0.00							34 0	34 0	284
56	5 G1	INT WING		20	2	21.75							1 10	1 10	484
		INCR = 5.75"				14 9.00							14 9	14 9	
76	5 G2	EXT WING		20	2	2 0.00							2 0	2 0	770
		INCR = 5"				17 5.00							17 5	17 5	
12	5 E1	WALL		20		3 11.00							3 11	3 11	49
34	5 R3	EDGE BEAM		10			17.00	18.00					4 4	4 1	145
34	5 R4	HEADWALL		13		17.00	4 0.00	17.00	4 0.00				11 9	11 5	405
		UNIT 2													
84	6 A1	TOP SLAB		20		34 0.00							34 0	34 0	4290
161	5 A2	BOTTOM SLAB		20		34 0.00							34 0	34 0	5709
111	4 F2	BARREL		20		52 11.00							52 11	52 11	3924
30	4 F3	TOP SLAB		20		52 6.00							52 6	52 6	1052
37	4 F4	BOTTOM SLAB		20		29 3.00							29 3	29 3	723
20	4 F5	WING		20	2	10 6.00							10 6	10 6	261
		INCR = 24"				28 6.00							28 6	28 6	
20	4 F6	WALL		20	2	6 11.00							6 11	6 11	235
		INCR = 28.5"				28 3.50							28 4	28 4	
41	6 H1	TOP SLAB		20		25 11.00							25 11	25 11	1596
42	6 H2	TOP SLAB		20		8 11.00							8 11	8 11	562
161	6 H3	BOTTOM SLAB		20		11 8.00							11 8	11 8	2821
4	7 J1	WING		20		33 4.00							33 4	33 4	273
212	5 J3	TOP SLAB		19		2 11.00	6 5.50						9 5	9 3	2045
212	6 J4	BOTTOM SLAB		19		13 9.00	7 5.50						21 2	21 1	6713
106	6 J5	WING		19	2	2 3.25	7 5.50						9 9	9 7	2733
		INCR = 3.5"				17 5.25	7 5.50						24 11	24 9	
8	7 J6	WALL		14		15.00	21.00	31 2.50			15 8.00	27 0.00	34 2	34 0	556
110	5 B1	WALL		21		14 11.00	12.00	12.00			14 11.00		16 11	16 8	1912
150	5 B2	WALL		21		14 11.00	12.00	12.00			14 11.00		16 11	16 8	2608
2	8 D1	HEADWALL		20		34 0.00							34 0	34 0	182
2	9 D2	HEADWALL		20		9 0.00							9 0	9 0	61
8	5 D3	HEADWALL		20		34 0.00							34 0	34 0	284
56	5 G1	INT WING		20	2	21.75							1 10	1 10	484
		INCR = 5.75"				14 9.00							14 9	14 9	
76	5 G2	EXT WING		20	2	2 0.00							2 0	2 0	770
		INCR = 5"				17 5.00							17 5	17 5	
12	5 E1	WALL		20		3 11.00							3 11	3 11	49
34	5 R1	HEADWALL		27		17.00	3 7.75	6.00	2 2.50		4.25	4.25	7 9	7 7	269
34	5 R2	HEADWALL		10			10.50	4 0.00					5 9	5 6	195

Bill of Reinforcing Steel

No. Req.	Size/ Mark	Location	Codes C	SH	V	Dimensions B ft in.	C ft in.	D ft in.	E ft in.	F ft in.	H ft in.	K ft in.	Nom. Length ft in.	Actual Length ft in.	Weight lb

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

For bending diagrams and steel reinforcing totals, see Sheet No. 4.

All bars shall be Grade 60.

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

SH = Required shape, see bending diagrams.

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

Detailed May 2024
Checked May 2024

BILL OF REINFORCING STEEL

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

STATE OF MISSOURI
RYAN G. HAGERTY
NUMBER PE-2016034015
PROFESSIONAL ENGINEER

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DATE PREPARED
1/28/2025

ROUTE	STATE
100	MO

DISTRICT	SHEET NO.
BR	5

COUNTY
ST. LOUIS

JOB NO.
J6P3274

CONTRACT ID.

PROJECT NO.

BRIDGE NO.
A9276

DESCRIPTION	DATE

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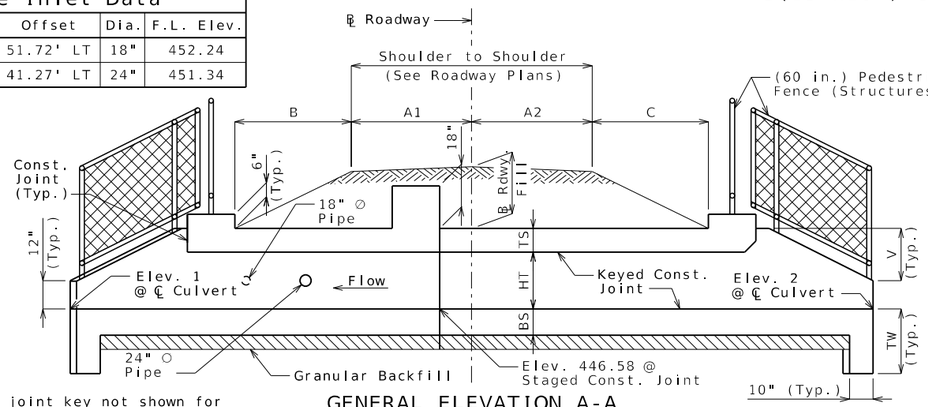
PRO. ENGINEER 000133
ARCHITECT 000212
PRO. LAND SURVEYOR 000059

RYAN G. HAGERTY
PROFESIONAL ENGINEER
PE-2016034015

3(15'x10') CONCRETE BOX CULVERT

SEC/SUR 31&32 TWP 45N RGE 5E

Pipe Inlet Data			
Station	Offset	Dia.	F.L. Elev.
1527+11.28	51.72' LT	18"	452.24
1526+64.55	41.27' LT	24"	451.34

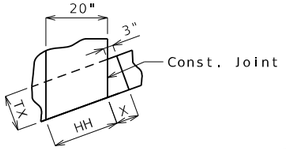


GENERAL ELEVATION A-A

Construction joint key not shown for clarity, see standard plans for details.

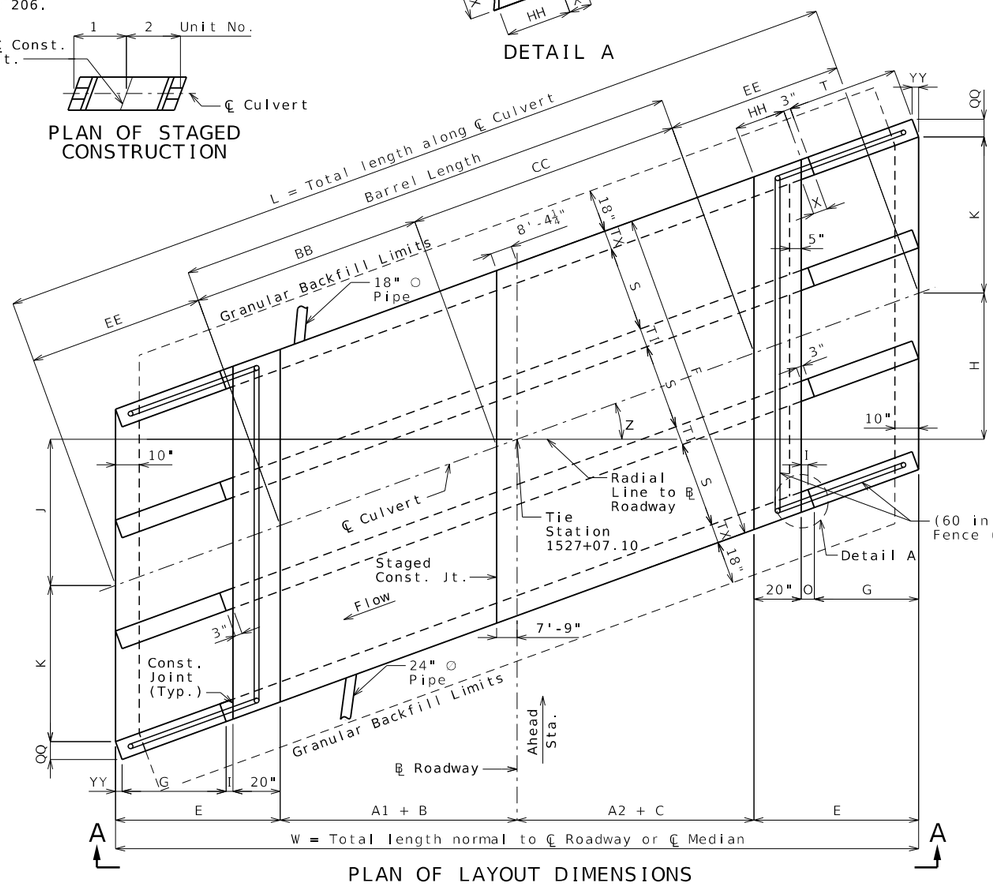
If any part of the barrel is exposed, the roadway fill shall be warped to provide 12 inches minimum cover. (Roadway Item)

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 STAGED CONSTRUCTION



PLAN OF LAYOUT DIMENSIONS

Layout Dimensions

Var.	Equation	Dim.	Var.	Equation	Dim.	Var.	Equation	Dim.
S	- - -	15'-0"	F	3S + 2TX + 2TI	47'-10"	W	A1 + A2 + B + C + 2E	163'-4¼"
HT	- - -	10'-0"	G	- - -	21'-0"	X	3" + TX(tan Z)	6⅝"
TS	- - -	15"	H	(A2 + C + E)(tan Z)	32'-4¾"	Z	Skew Angle	22.0°
BS	- - -	11"	I	3"(cos Z)	2¾"			
TX	- - -	9"	J	(A1 + B + E)(tan Z)	33'-7¼"	BB	- - -	56'-4¼"
TI	- - -	8"	K	(3S/2 + TI)(sec Z)	24'-11⅞"	CC	- - -	69'-10"
A1	- - -	33'-0"	L	2EE + AA + BB + CC + DD	176'-2¼"			
A2	- - -	30'-0"	O	I + YY	6⅛"	EE	E(sec Z)	25'-0"
B	- - -	27'-0"	T	G(sec Z)	22'-7¾"	HH	20"(sec Z)	21⅝"
C	- - -	27'-0"	V	HT + TS - 12"	10'-3"	QQ	TX(cos Z)	8⅜"
E	G + O + 20"	23'-2⅛"				YY	TX(sin Z)	3⅜"
						TW	Max{3'-4" or (BS + 12")}	3'-4"

Hydrologic Data

Drainage Area = 3.8 mi²
Design Flood Frequency = 50 years
Design Flood Discharge = 3500 cfs
Design Flood (D.F.) Elevation = 458.0
Base Flood (100-year)
Base Flood Elevation = 459.0
Base Flood Discharge = 4100 cfs
Estimated Backwater = 2.4 ft
Outlet Velocity = 17.1 ft/s
Roadway Overtopping
Overtopping Flood Discharge = 5600 cfs
Overtopping Flood Frequency = 500 years
Overtopping Flood Elevation = 461.4

Elevations

Downstream (Elev. 1) = 446.0
Upstream (Elev. 2) = 447.25
Pr. Gr. at Tie Sta. = 460.65

Fill Heights

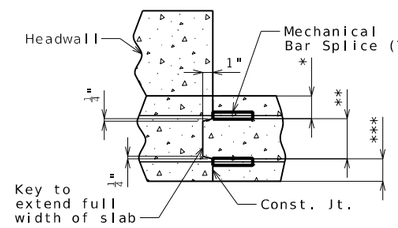
℄ Rdwy at ℄ Culvert = 2.97 ft
Design (All units) = 2.0 ft

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

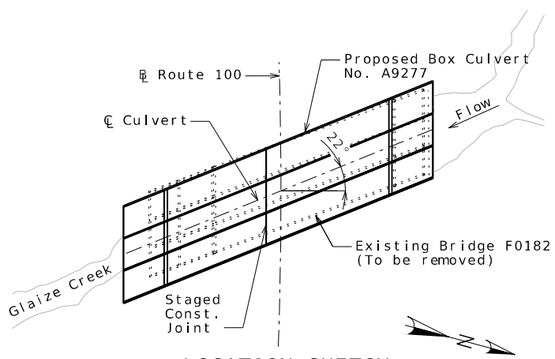
			Final
Class 4 Excavation	cu. yard	1681	
Temporary Shoring	lump sum	1	
Dewatering *	lump sum	1	
Removal of Bridges (F0182)	lump sum	1	
(60 in.) Pedestrian Fence (Structures)	linear foot	102	
Class B-1 Concrete (Culverts-Bridge)	cu. yard	755.2	
Reinforcing Steel (Culverts-Bridge)	pound	116,430	
Mechanical Bar Splices	each	252	
Bridge Guardrail (W-Beam)	linear foot	52	

* See Job Special Provisions (Bridge).



STAGED CONSTRUCTION JOINT DETAIL

* 3 1/4" Top Slab
2 3/4" Bottom Slab
** 9" Top Slab
4" Bottom Slab
*** 2 3/4" Top Slab
4 1/4" Bottom Slab



LOCATION SKETCH

General Notes:

Design Specifications:
2010 AASHTO LRFD Bridge Design Specifications and 2010 Interim Revisions

Design Loading:
Vehicular = HL-93 minus lane load, 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, 703.84, 703.86, 703.87, 703.60, 706.35

Miscellaneous:
See Job Special Provisions (Bridge for Construction Requirements.

Concrete box culvert shall be cast-in-place.

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)

For utility relocations in the vicinity of this bridge, see roadway job special provisions for more information and timeline.

Traffic Handling:
Traffic to be maintained on structure during construction. See roadway plans for traffic control and Sheet No. 2 for staged construction details.

CULVERT-BRIDGE: ROUTE 100 OVER GLAIZE CREEK

ROUTE 100 FROM ROUTE 141 TO ROUTE I-270
ABOUT 2.1 MILES WEST OF ROUTE I-270
TIE STA. 1527+07.10

Designed May 2024
Detailed May 2024
Checked May 2024

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

STATE OF MISSOURI
RYAN G. HAGERTY
NUMBER PE-2016034015
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED, AND DATED ELECTRONICALLY

DATE PREPARED 1/28/2025
ROUTE 100 | STATE MO
DISTRICT BR | SHEET NO. 1
COUNTY ST. LOUIS
JOB NO. J6P3274
CONTRACT ID.
PROJECT NO.
BRIDGE NO. A9277

DESCRIPTION | DATE

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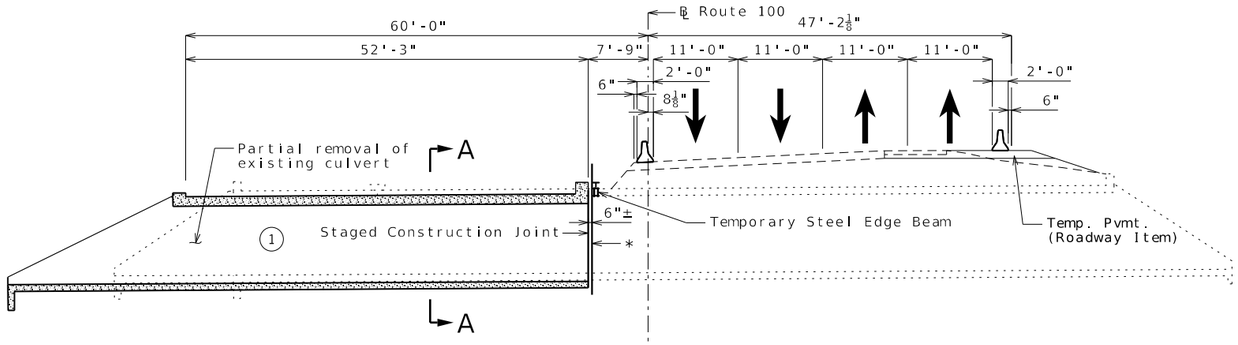
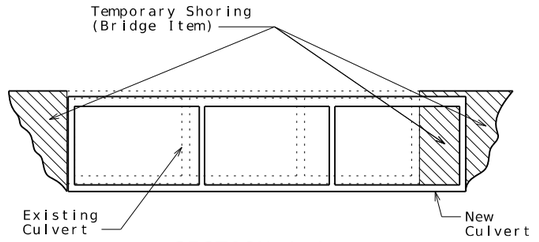
ARCHITECT 000212
PRO. LAND SURVEYOR 000059

RYAN G. HAGERTY
PROFESIONAL ENGINEER
PE-2016034015

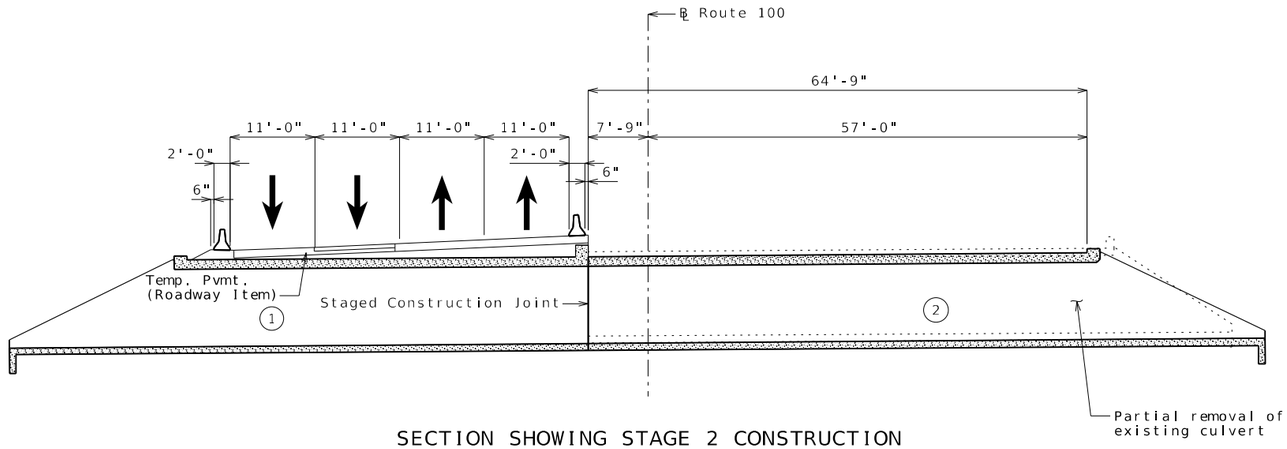




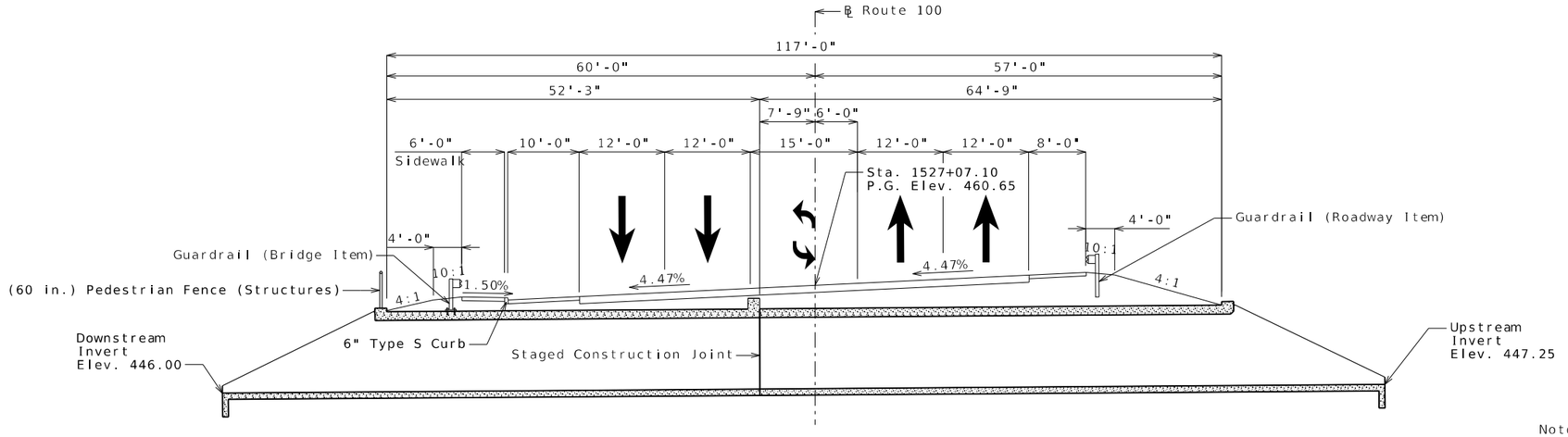
SECTION A-A

* Removal line & temporary shoring location.

SECTION SHOWING STAGE 1 CONSTRUCTION



SECTION SHOWING STAGE 2 CONSTRUCTION



FINAL SECTION

DETAILS OF REMOVAL AND STAGED CONSTRUCTION

Detailed May 2024
Checked May 2024

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

Sheet No. 2 of 7

Notes:

All dimensions are perpendicular to a radial line at Sta. 1527+07.10.

Pavement, fill, sidewalks and guardrail on the right side of the roadway shown above are Roadway Items.

STATE OF MISSOURI
RYAN G. HAGERTY
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PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED, AND DATED ELECTRONICALLY

DATE PREPARED
1/28/2025

ROUTE	STATE
100	MO
DISTRICT	SHEET NO.
BR	2

COUNTY
ST. LOUIS

JOB NO.
J6P3274

CONTRACT ID.

PROJECT NO.

BRIDGE NO.
A9277

DESCRIPTION	DATE

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ARCHITECT 000212
PRO. LAND SURVEYOR 000059

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PROFESIONAL ENGINEER
PE-2016034015

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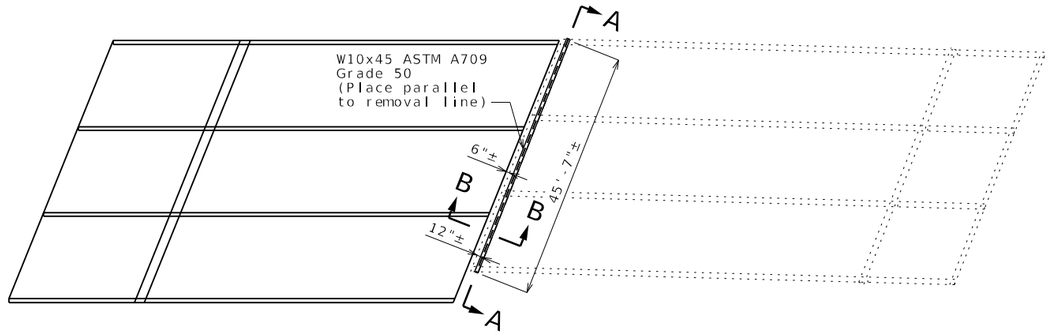
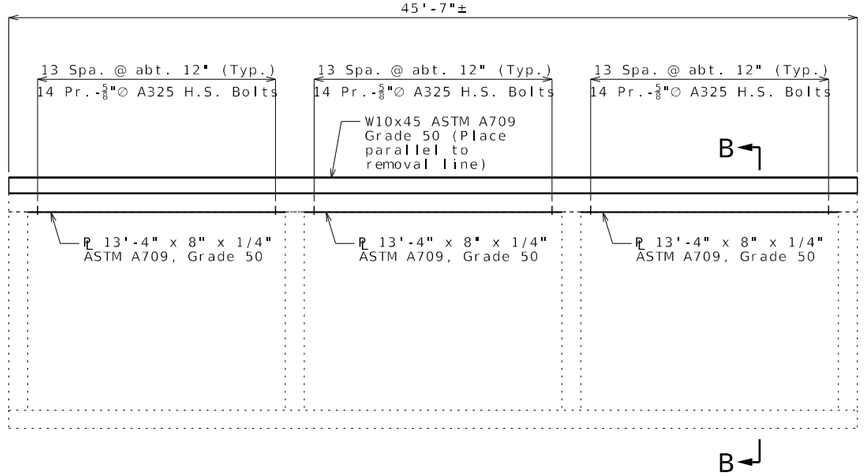
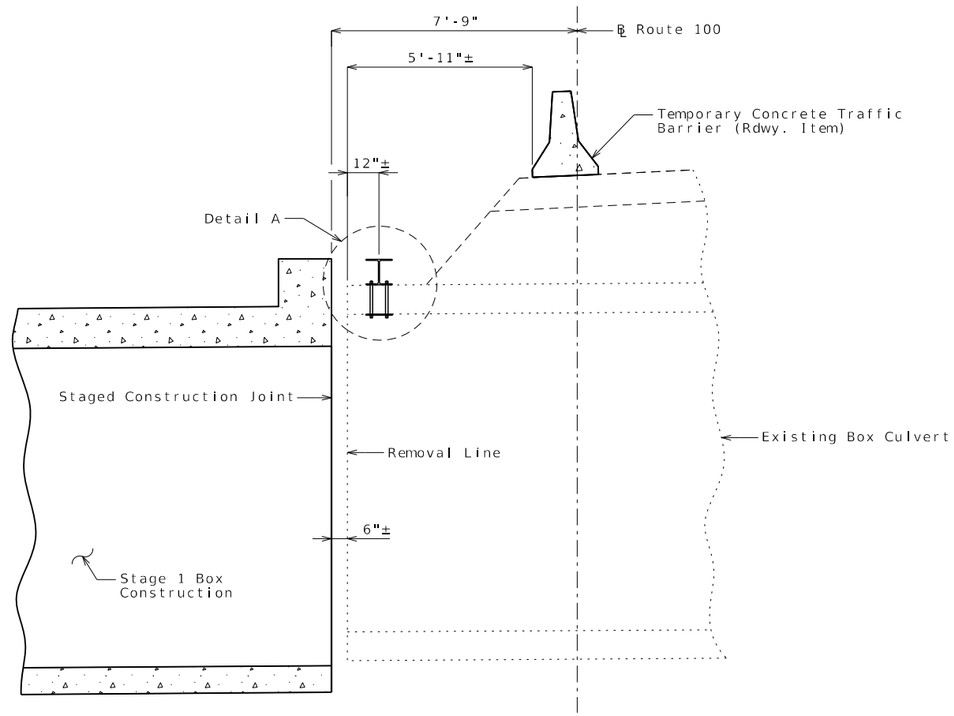


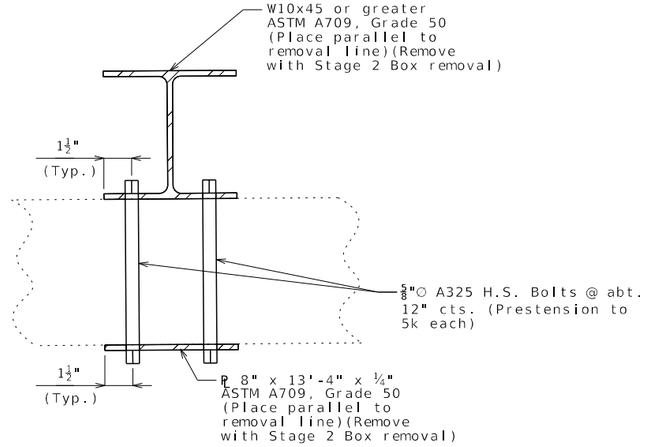
PLAN SHOWING STEEL EDGE BEAM



SECTION A-A



SECTION B-B



DETAIL A

Note:

Payment for furnishing all materials and labor necessary to install W10x45 temporary steel edge beam and other incidental work as shown on this sheet, complete in place, will be considered completely covered by the contract unit price for Removal of Bridges.

TEMPORARY STEEL EDGE BEAM DETAILS

Detailed May 2024
Checked May 2024

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

STATE OF MISSOURI
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PROFESSIONAL ENGINEER

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1/28/2025

ROUTE	STATE
100	MO
DISTRICT	SHEET NO.
BR	3

COUNTY
ST. LOUIS

JOB NO.
J6P3274

CONTRACT ID.

PROJECT NO.

BRIDGE NO.
A9277

DESCRIPTION	DATE

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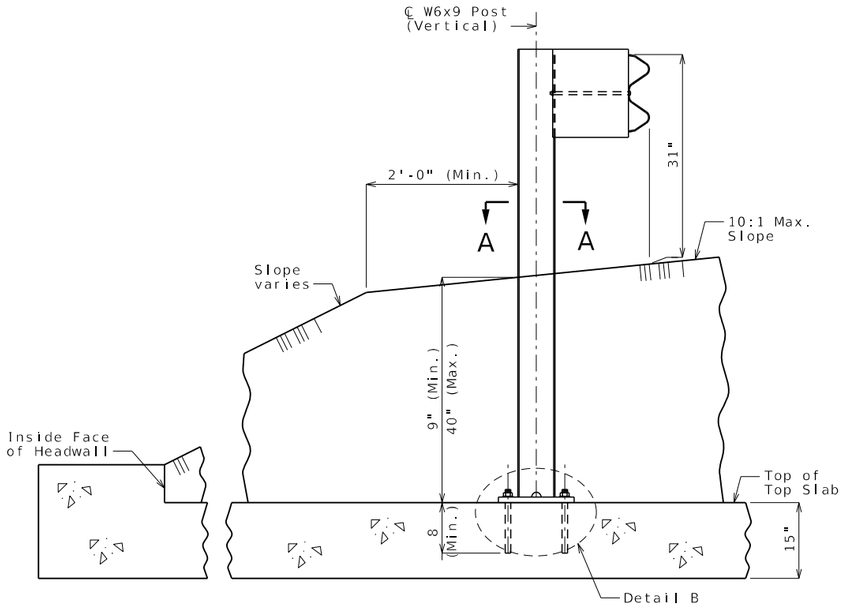
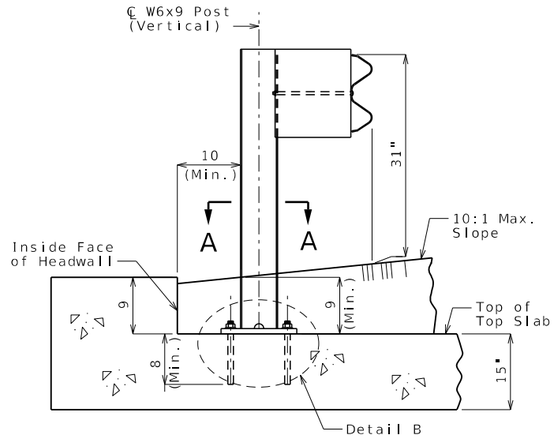
PE-2016034015



PART SECTION THRU TOP SLAB
SHOWING RAIL POST ATTACHMENT
(Far from headwall)



PART SECTION THRU TOP SLAB
SHOWING RAIL POST ATTACHMENT
(Close to headwall)

General Notes:

Furnishing and installing posts and guardrail on culvert as shown on this sheet will be considered completely covered by the contract unit price for Bridge Guardrail (W-Beam).

Furnishing and installing posts and guardrail on culvert shall be in accordance with Sec 606 except as shown.

Rail posts shall be seated on 1/16-inch elastomeric pads having the same dimensions as the post base plate. Such pads may be any elastomeric material, plain or fibered, having hardness (durometer) of 50 or above, as certified by the manufacturer. Additional pads or half pads may be used in shimming for alignment. Post heights shown will increase by the thickness of the pad.

Posts, base plates, and connection hardware shall be fabricated from ASTM A709 Grade 36 steel and galvanized.

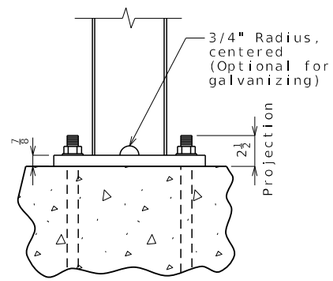
Fabrication of structural steel shall be in accordance with Sec 1080.

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

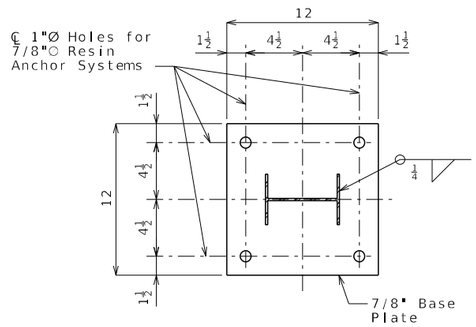
Cost of furnishing and installing the resin anchor systems, complete in place, will be considered completely covered by the contract unit price for Bridge Guardrail (W-beam).

The minimum embedment depth in concrete with f'c = 4,000 psi for the resin anchor systems shall be that required to meet the minimum ultimate pullout strength in accordance with Sec 1039 but shall not be less than 8 inches.

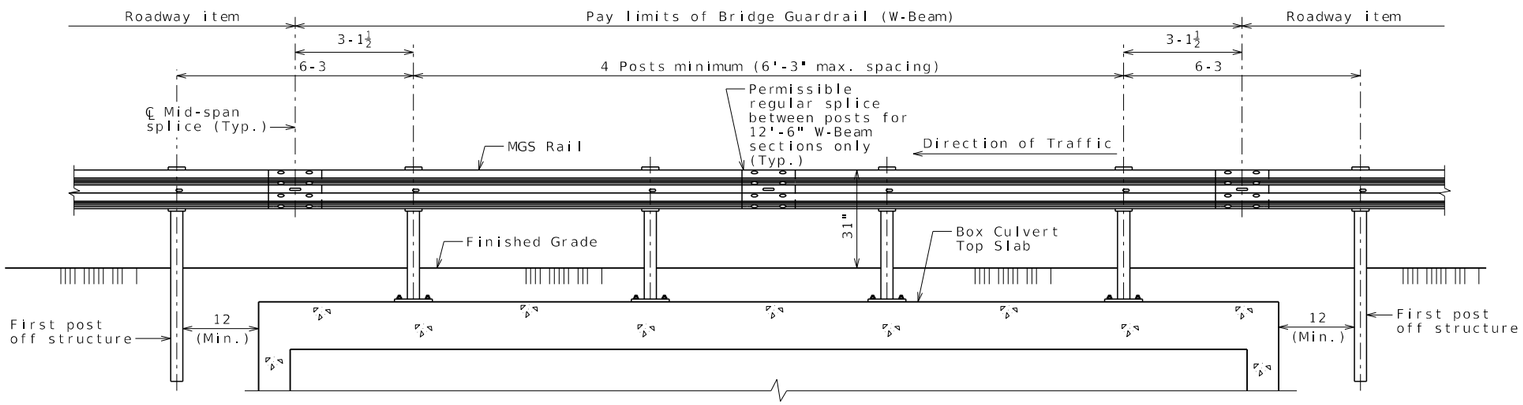
See Missouri Standard Plans drawing 606.50 for details not shown.



DETAIL B



SECTION A-A



TYPICAL ELEVATION

MIDWEST GUARDRAIL SYSTEM (MGS) ON BOX CULVERT (LEFT GUARDRAIL ONLY)

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

Detailed May 2024
Checked May 2024

STATE OF MISSOURI
RYAN G. HAGERTY
NUMBER PE-2016034015
PROFESSIONAL ENGINEER

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DATE PREPARED
1/28/2025

ROUTE	STATE
100	MO
DISTRICT	SHEET NO.
BR	4

COUNTY
ST. LOUIS

JOB NO.
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CONTRACT ID.

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DESCRIPTION	DATE

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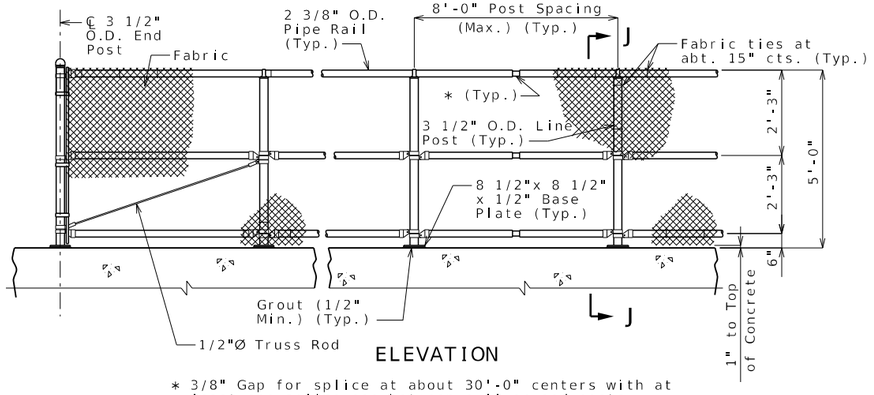
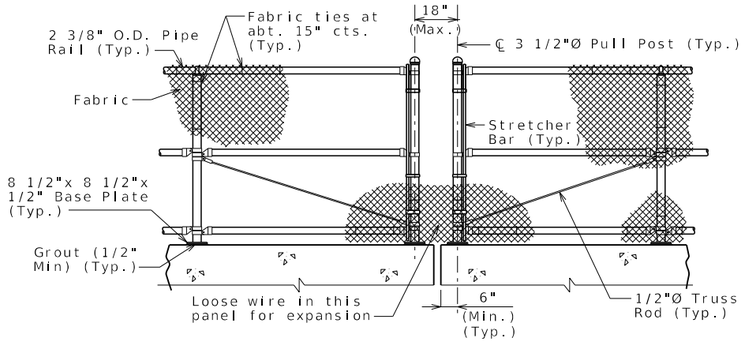
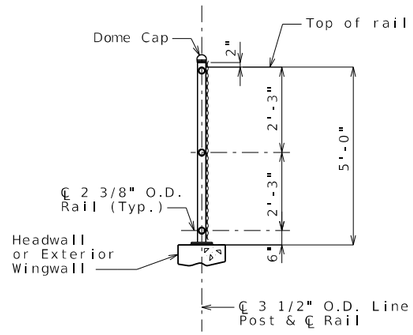


ELEVATION

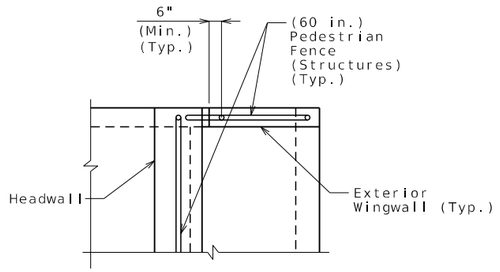
* 3/8" Gap for splice at about 30'-0" centers with at least one splice gap between pull or end posts.



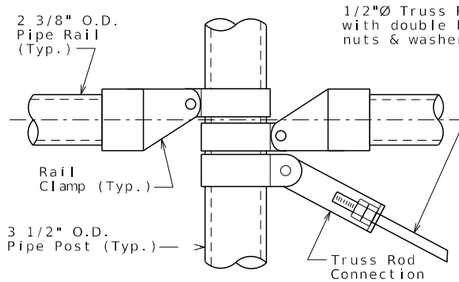
ELEVATION AT EXPANSION GAP



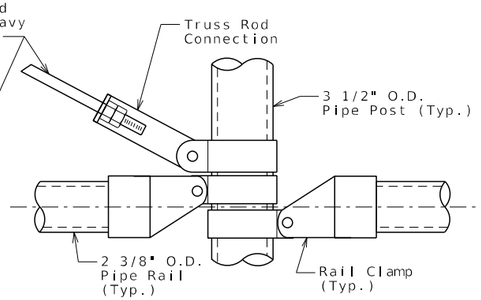
SECTION J-J



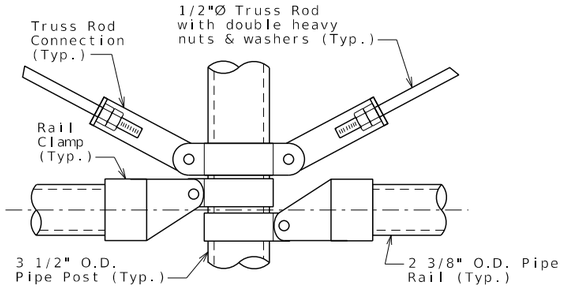
FENCE AT HEADWALL/EXTERIOR WINGWALL DETAIL



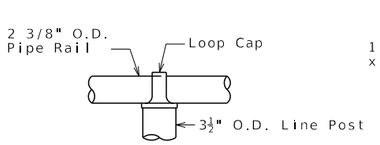
UPPER TRUSS ROD CONNECTION DETAIL



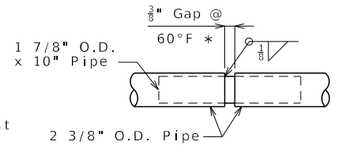
LOWER TRUSS ROD CONNECTION DETAIL



DUAL LOWER TRUSS ROD CONNECTION DETAIL

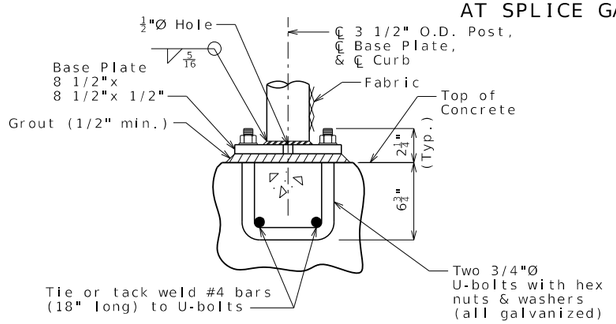


DETAIL A



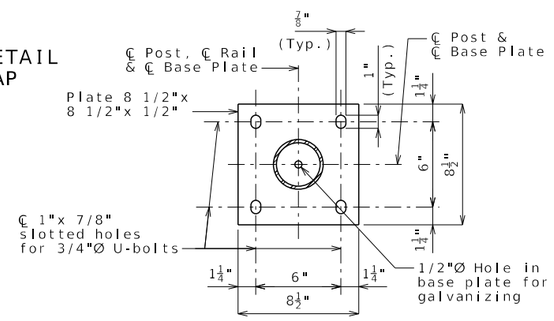
TYPICAL RAIL DETAIL AT SPLICE GAP

Note: At the contractor's option, manufacturer-approved expansion coupling may be used in lieu of detail shown. No additional payment will be made for this substitution.



POST CONNECTION (TYPICAL)

Note: Base plate shall be welded to the post prior to galvanizing the post with base plate.



PLAN OF BASE PLATE

GENERAL NOTES:

Pedestrian chain link fence shall be in accordance with Sec 1043 except all fabric shall have the top and bottom edges knuckled and pipe members shall be in accordance with ASTM F1043, high strength grade (minimum yield = 50 ksi) heavy industrial steel pipe Group 1A.

All posts shall be vertical. Grout shall be placed under the post base plates in accordance with Sec 1066.

Payment for furnishing, galvanizing and erecting the fence and frame complete in place will be considered completely covered by the contract unit price for (60 in.) Pedestrian Fence (Structures) per linear foot.

Dimensions of pedestrian chain link fence are measured horizontally.

The maximum spacing allowed between pull posts and end posts is 100 feet. Post brace and 1/2-inch diameter truss rod are required for panels adjacent to pull post and end posts only. Connect the lower end of truss rod to bottom of pull posts and end posts to which the stretcher bar is attached.

Rail clamps, dome cap, bands, tie wires, stretcher bars and truss rod connections shall be in accordance with the manufacturer's recommendations. The truss rod and truss rod connections shall have a minimum capacity of 2000 pounds. Dome cap shall fit tightly.

Expansion joints shall be placed in the horizontal pieces at not more than 30-foot centers and at all joint filler locations in the curb with a minimum gap of 3/8 inch at 60 degrees F.

Steel for truss rods shall be ASTM A709 Grade 36. Steel for base plates shall be ASTM A709 Grade 50.

(60 in.) Pedestrian Fence (Structures) will be measured to the nearest linear foot for each end measured along the outside edge of the headwall from end to end and the sloped lengths of the exterior wing walls.

Contractor shall submit complete detailed shop drawings in accordance with Sec 1080.

All base plates, U bolts, hex nuts and washers shall be galvanized in accordance with ASTM A123 and Sec 1081.

U bolts shall be ASTM F1554 Grade 36.

Chain link wire fabric shall be 9 gage minimum, 2-inch diamond mesh.

The chain link fence shall be built in accordance with Sec 607 & Sec 1043.

PEDESTRIAN CHAIN LINK FENCE

Detailed May 2024
Checked May 2024

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

STATE OF MISSOURI
RYAN G. HAGERTY
NUMBER PE-2016034015
PROFESSIONAL ENGINEER
THIS SHEET HAS BEEN SIGNED, SEALED, AND DATED ELECTRONICALLY

DATE PREPARED 1/28/2025
ROUTE 100 | STATE MO
DISTRICT BR | SHEET NO. 5
COUNTY ST. LOUIS
JOB NO. J6P3274
CONTRACT ID.
PROJECT NO.
BRIDGE NO. A9277

DESCRIPTION | DATE

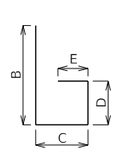
IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

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

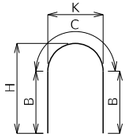
GBA
16305 SWINGLEY RIDGE RD
ST. 300
CHESTERFIELD, MO 63017
314.231.0100
GBAteam.com

GEORGE BUTLER ASSOCIATES, INC.
PRO. ENGINEER 000133
ARCHITECT 000212
PRO. LAND SURVEYOR 000059

RYAN G. HAGERTY
PROFESIONAL ENGINEER
PE-2016034015



SHAPE 6
or 6S



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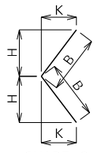

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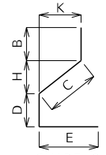

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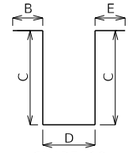

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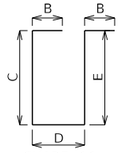

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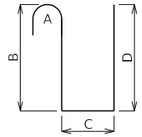

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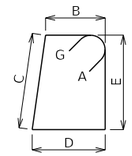

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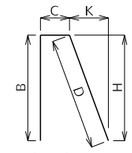

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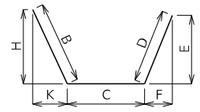

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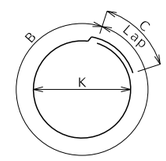

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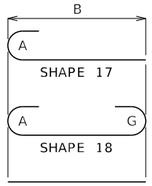
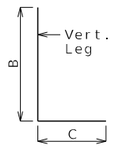


SHAPE 17
SHAPE 18
SHAPE 20



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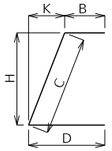

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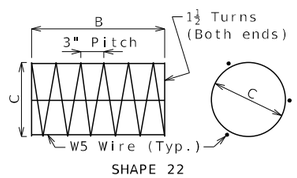

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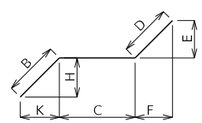

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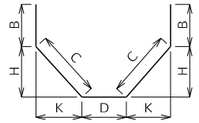

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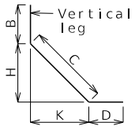

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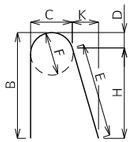

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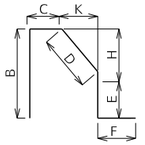

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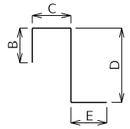

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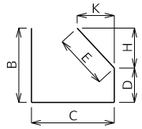

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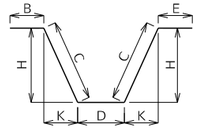

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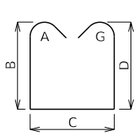

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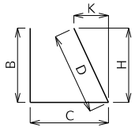

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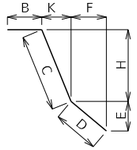

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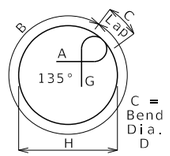

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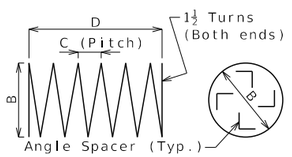
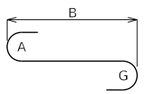


SHAPE 35 (1)

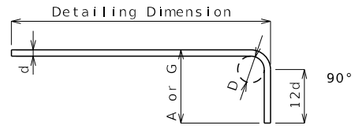


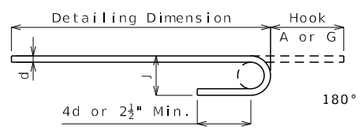
SHAPE 36

Finished Bend Diameters D and Hook Dimensions

Standard Pin Bend Shapes

Size	Case	D	A or G		J
			90°	180°	180°
#4	1	3"	8"	6"	4"
#5	1	3¾"	10"	7"	5"
#6	1	4½"	12"	8¼"	6"
#7	2	5¼"	14"	9¾"	7"
	3	7"	15"	11½"	8¾"
#8	2	6"	16"	11"	8"
	3	8"	17"	13¾"	10"
#9	1	9½"	19½"	15½"	11¾"
#10	1	10¾"	22"	17½"	13¼"
#11	1	12"	24½"	19½"	14⅞"
#14	1	18¾"	31¼"	27½"	21⅝"
#18	1	24"	41½"	36¼"	28½"



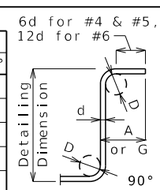


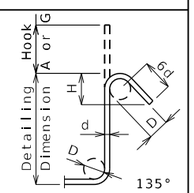
Stirrup Pin Bend Shapes (S)

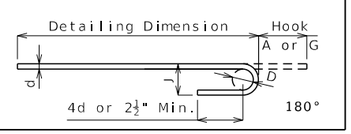
Size	Case	D	A or G			H	J
			90°	135°	180°	135°	180°
#4	2	2"	4½"	4½"	5"	2⅝"	3"
	3	3"	5"	5¼"	6"	3"	4"
#5	2	2½"	5¾"	5¾"	5¾"	3⅝"	3¾"
	3	3¾"	6¼"	6½"	7"	3⅞"	5"
#6	1	4½"	12"	7¾"	8¼"	4⅝"	6"

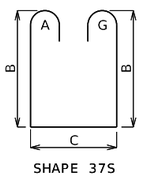
Applicable for all grades of steel.

Case 1 applies to all reinforcement. Case 2 applies to all reinforcement except for galvanized bars. Case 3 applies to galvanized bars only.

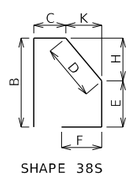








SHAPE 37S



SHAPE 38S

BENDING DIAGRAMS

All dimensions are out to out.

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

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

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

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

Reinforcing Steel Totals (Pounds)

		Substructure		Superstructure				Entire Bridge	
				Slab			Slip		
	Size	Plain	Epoxy	Plain	Epoxy	Barrier	Form	Plain	Epoxy
By Size	W5	0	0	0	0	0	0	0	0
	4	19205	0	0	0	0	0	19205	0
	5	30770	0	0	0	0	0	30770	0
	6	47875	0	0	0	0	0	47875	0
	7	15757	0	0	0	0	0	15757	0
	8	2458	0	0	0	0	0	2458	0
	9	367	0	0	0	0	0	367	0
	10	0	0	0	0	0	0	0	0
	11	0	0	0	0	0	0	0	0
	14	0	0	0	0	0	0	0	0
	18	0	0	0	0	0	0	0	0
By Type		116432	0	0	0	0	0	116432	0

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

BENDING DIAGRAMS AND REINFORCING STEEL TOTALS

Detailed May 2024
Checked May 2024

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

STATE OF MISSOURI
RYAN G. HAGERTY
NUMBER PE-2016034015
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED, AND DATED ELECTRONICALLY

DATE PREPARED 1/28/2025

ROUTE	STATE
100	MO
DISTRICT	SHEET NO.
BR	6

COUNTY: ST. LOUIS
JOB NO.: J6P3274
CONTRACT ID.:
PROJECT NO.:
BRIDGE NO.: A9277

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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16305 SWINGLEY RIDGE RD
ST. 300
CHESTERFIELD, MO 63017
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GEORGE BUTLER
ASSOCIATES, INC.
PRO. ENGINEER 000133
ARCHITECT 000212
PRO. LAND SURVEYOR 000059

RYAN G. HAGERTY
PROFESIONAL
ENGINEER
PE-2016034015

Bill of Reinforcing Steel

No. Req.	Size/ Mark	Location	Codes C	SH	V	Dimensions B ft in.	C ft in.	D ft in.	E ft in.	F ft in.	H ft in.	K ft in.	Nom. Length ft in.	Actual Length ft in.	Weight lb
		UNIT 1													
71	6 A1	TOP SLAB		20		47 6.00							47 6	47 6	5065
114	5 A2	BOTTOM SLAB		20		47 6.00							47 6	47 6	5648
34	6 A3	TOP SLAB		20	1	2 8.50							2 9	2 9	1281
		INCR = 16 1/4"				47 4.75							47 5	47 5	
34	5 A4	BOTTOM SLAB		20	1	2 4.50							2 5	2 5	878
		INCR = 16.25"				47 0.75							47 1	47 1	
34	6 A5	TOP SLAB		20	1	2 5.75							2 6	2 6	1268
		INCR = 16 1/4"				47 2.00							47 2	47 2	
34	5 A6	BOTTOM SLAB		20	1	2 6.25							2 6	2 6	882
		INCR = 16 1/4"				47 2.50							47 3	47 3	
188	4 F1	SLABS		20		58 0.00							58 0	58 0	7284
52	4 F3	BOTTOM SLAB		20		25 1.00							25 1	25 1	871
48	4 F4	WALL		20	6	6 0.00							6 0	6 0	476
		INCR = 30 1/4"				23 7.75							23 8	23 8	
107	6 H1	TOP SLAB		20		21 6.00							21 6	21 6	3455
116	6 H2	TOP SLAB		20		8 6.00							8 6	8 6	1481
292	7 H3	BOTTOM SLAB		20		10 9.00							10 9	10 9	6416
8	8 H4	HEADWALL		20		51 2.00							51 2	51 2	1093
16	7 J1	WING		20		27 11.00							27 11	27 11	913
195	6 J3	TOP SLAB		19		3 0.00	6 1.50						9 2	9 0	2636
215	6 J4	BOTTOM SLAB		19		10 7.00	5 0.25						15 7	15 5	4979
39	6 J5	WING		19	1	2 5.25	5 0.25						7 6	7 4	708
		INCR = 3"				11 11.25	5 0.25						17 0	16 10	
41	6 J6	WING		19	1	18.00	5 0.25						6 6	6 4	698
		INCR = 3"				11 6.00	5 0.25						16 6	16 4	
244	5 B1	WALL		21		11 9.00	12.00	12.00			11 9.00		13 9	13 6	3436
116	5 B2	WALL		21		11 9.00	12.00	12.00			11 9.00		13 9	13 6	1633
4	8 D1	HEADWALL		20		51 2.00							51 2	51 2	546
8	9 D2	HEADWALL		20		9 0.00							9 0	9 0	245
4	5 D3	HEADWALL		20		51 2.00							51 2	51 2	213
46	5 G1	EXT WING		20	2	23.25							1 11	1 11	324
		INCR = 5 1/4"				11 6.75							11 7	11 7	
96	5 G2	INT WING		20	4	21.75							1 10	1 10	688
		INCR = 5 1/4"				11 10.50							11 11	11 11	
16	5 E1	TOE WALL		20		4 0.00							4 0	4 0	67
51	5 R3	HEADWALL		10			17.00	18.00					4 4	4 1	217
51	5 R4	HEADWALL		13		17.00	2 6.00	17.00	2 6.00				8 9	8 5	448
		UNIT 2													
95	6 A1	TOP SLAB		20		47 6.00							47 6	47 6	6778
139	5 A2	BOTTOM SLAB		20		47 6.00							47 6	47 6	6886
34	6 A3	TOP SLAB		20	1	2 8.50							2 9	2 9	1281
		INCR = 16 1/4"				47 4.75							47 5	47 5	
34	5 A4	BOTTOM SLAB		20	1	2 4.50							2 5	2 5	878
		INCR = 16 1/4"				47 0.75							47 1	47 1	
34	6 A7	TOP SLAB		20	1	2 6.75							2 7	2 7	1272
		INCR = 16 1/4"				47 3.00							47 3	47 3	
34	5 A8	BOTTOM SLAB		20	1	2 5.50							2 6	2 6	881
		INCR = 16 1/4"				47 1.75							47 2	47 2	
376	4 F2	SLABS		20		36 9.00							36 9	36 9	9230
52	4 F3	SLABS		20		25 1.00							25 1	25 1	871
48	4 F5	WALL		20	6	5 5.75							5 6	5 6	473
		INCR = 31 3/4"				24 0.00							24 0	24 0	
135	6 H1	TOP SLAB		20		21 6.00							21 6	21 6	4360
142	6 H2	TOP SLAB		20		8 6.00							8 6	8 6	1813
342	7 H3	BOTTOM SLAB		20		10 9.00							10 9	10 9	7515
4	8 H4	HEADWALL		20		51 2.00							51 2	51 2	546
16	7 J1	WING		20		27 11.00							27 11	27 11	913
241	6 J3	TOP SLAB		19		3 0.00	6 1.50						9 2	9 0	3258
265	6 J4	BOTTOM SLAB		19		10 7.00	5 0.25						15 7	15 5	6136
39	6 J5	WING		19	1	2 5.25	5 0.25						7 6	7 4	708
		INCR = 3"				11 11.25	5 0.25						17 0	16 10	
41	6 J6	WING		19	1	18.00	5 0.25						6 6	6 4	698
		INCR = 3"				11 6.00	5 0.25						16 6	16 4	
296	5 B1	WALL		21		11 9.00	12.00	12.00			11 9.00		13 9	13 6	4168
143	5 B2	WALL		21		11 9.00	12.00	12.00			11 9.00		13 9	13 6	2014
2	8 D1	HEADWALL		20		51 2.00							51 2	51 2	273
4	9 D2	HEADWALL		20		9 0.00							9 0	9 0	122
46	5 G1	EXT WING		20	2	23.25							1 11	1 11	324
		INCR = 5 1/4"				11 6.75							11 7	11 7	
96	5 G2	INT WING		20	4	21.75							1 10	1 10	688
		INCR = 5 1/4"				11 10.50							11 11	11 11	

Bill of Reinforcing Steel

No. Req.	Size/ Mark	Location	Codes C	SH	V	Dimensions B ft in.	C ft in.	D ft in.	E ft in.	F ft in.	H ft in.	K ft in.	Nom. Length ft in.	Actual Length ft in.	Weight lb
		UNIT 2 (CONT'D)													
16	5 E1	TOE WALL		20		4 0.00							4 0	4 0	67
51	5 R1	HEADWALL		27		17.00	13.75	6.00	2 2.50		4.25	4.25	5 3	5 1	270
51	5 R2	HEADWALL		10			10.50	18.00					3 3	3 0	160

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

For bending diagrams and steel reinforcing totals, see Sheet No. 6.

All bars shall be Grade 60.

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

SH = Required shape, see bending diagrams.

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

Detailed May 2024
Checked May 2024

BILL OF REINFORCING STEEL

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

STATE OF MISSOURI
RYAN G. HAGERTY
NUMBER PE-2016034015
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED, AND DATED ELECTRONICALLY

DATE PREPARED
1/28/2025

ROUTE 100 | STATE MO
DISTRICT BR | SHEET NO. 7
COUNTY ST. LOUIS
JOB NO. J6P3274
CONTRACT ID.
PROJECT NO.
BRIDGE NO. A9277

DESCRIPTION	DATE

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

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
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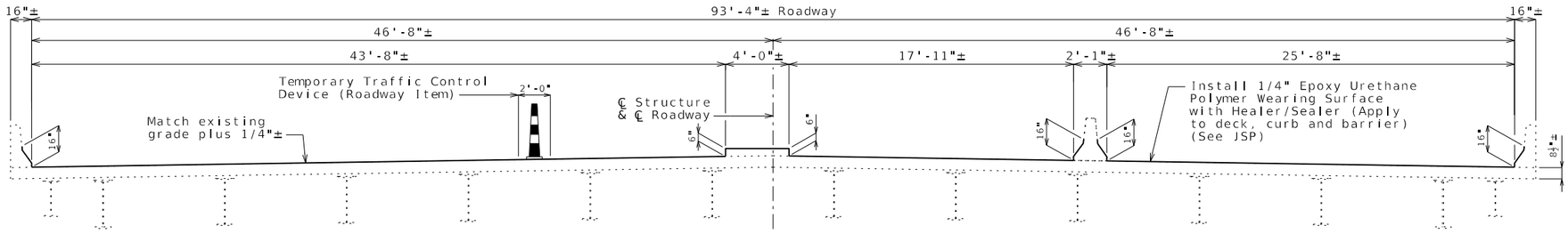
GEORGE BUTLER ASSOCIATES, INC.
PRO. ENGINEER 000133
ARCHITECT 000212
PRO. LAND SURVEYOR 000059

RYAN G. HAGERTY
PROFESIONAL ENGINEER
PE-2016034015

SEC/SUR 34 TWP 45N RGE 5E

U.I.P. AND REHABILITATE EXISTING (64'-83'-83'-64') CONTINUOUS COMPOSITE STEEL PLATE GIRDER SPANS (SKEW: 17° LA)



GENERAL NOTES:

Design Specifications:

2002 AASHTO LFD (17th Ed.) Standard Specifications
Bridge Deck Rating = 7

Design Loading:

HS20-44 plus 15 psf Future Wearing Surface

Miscellaneous:

See Job Special Provisions for Construction Requirements.

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.

Bars bonded in old concrete not removed shall be cleanly stripped and embedded into new concrete where possible. If length is available, old bars shall extend into new concrete at least 40 diameters for smooth bars and 30 diameters for deformed bars, unless otherwise noted.

The contractor shall exercise care to ensure spillage over joint edges is prevented and that a neat line is obtained along any terminating edge of the wearing surface.

Traffic Handling:

Traffic to be maintained on structure during construction. See roadway plans for traffic control.

Slab Drain Extension:

Outside dimensions of existing drains are 8"x4"±.

The contractor shall verify the number and size of the existing drains before ordering materials.

Slab drain extensions may be fabricated of either 1/4" welded sheets of ASTM A709 Grade 36 steel or from 1/4" structural steel tubing ASTM A500 or A501.

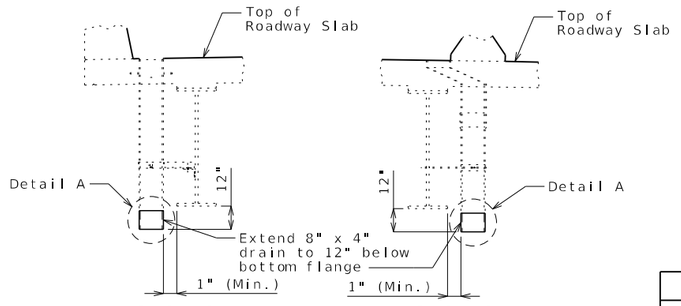
The drain extensions shall be galvanized in accordance with ASTM A123.

All bolts, hardened washers, lock washers, and nuts shall be galvanized in accordance with ASTM A153.

Shop drawings will not be required for the slab drain extensions.

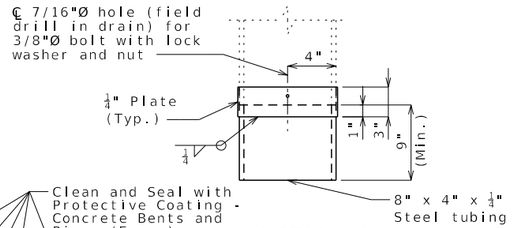
Cost of furnishing and installing slab drain extensions will be considered completely covered by the contract unit price for Slab Drain Extension (8"x4").

TYPICAL SECTION THRU EXISTING DECK

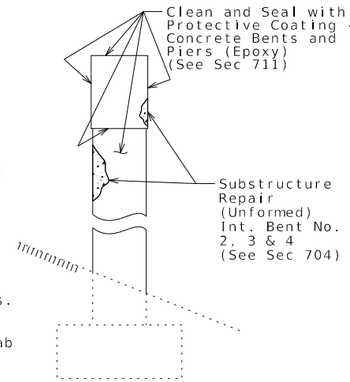


PART SECTION NEAR EXTERIOR DRAIN

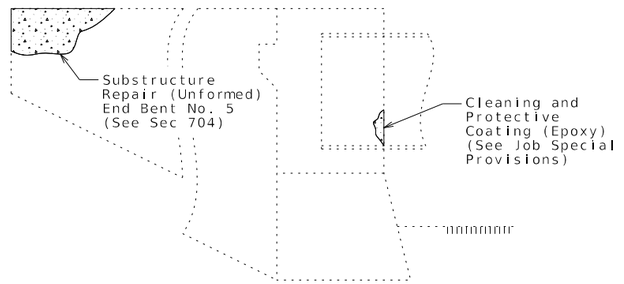
PART SECTION NEAR MEDIAN DRAIN



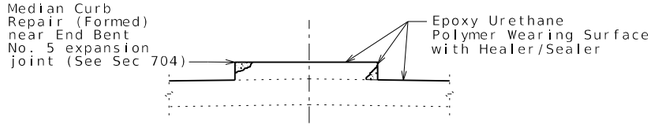
DETAIL A



TYPICAL SECTION THRU INT. BENTS 2, 3 & 4 SHOWING SUBSTRUCTURE REPAIR AND PROTECTIVE COATING



TYPICAL SECTION THRU END BENT 5 SHOWING SUBSTRUCTURE REPAIR



TYPICAL SECTION MEDIAN CURB SHOWING MEDIAN CURB REPAIR

Chip away loose concrete curb down to sound concrete and reform curb to existing dimensions and replace in-kind.

Median Curb Repair (Formed) shall be repaired before applying Epoxy Urethane Polymer Wearing Surface.

Median Curb Repair (Formed) shall be constructed, measured and paid for similar to Slab Edge Repair (See Sec 704).

Estimated Quantities

	Item		Total
(1)(3)	Epoxy Urethane Polymer Wearing Surface with Healer/Sealer	sq. yard	3227
	Substructure Repair (Unformed)	sq. foot	150
(2)	Concrete Crack Filler	sq. yard	546
	Median Curb Repair (Formed)	linear foot	10
	Protective Coating - Concrete Bents and Piers (Epoxy)	lump sum	1
(3)	Cleaning and Protective Coating (Epoxy)	sq. foot	5
	Slab Drain Extension (8" x 4")	each	37

(1) Bridge Deck area from fill face to fill face, entire median curb and 16 inches up roadway face of barriers.
(2) Apply to bridge approach slabs.
(3) See Job Special Provisions (Bridge).

ESTIMATED REPAIR QUANTITES

Substructure Repair (Unformed)
40 sq. ft. @ Int. Bent No. 2
50 sq. ft. @ Int. Bent No. 3
30 sq. ft. @ Int. Bent No. 4
5 sq. ft. @ End Bent No. 5

Substructure repair quantities shall be confirmed with the Engineer prior to ordering materials or beginning work.

Shotcrete is required for all unformed repairs.

REPAIRS TO BRIDGE: ROUTE 100 EB OVER ROUTE I-270

ROUTE 100 FROM ROUTE 61 TO ROUTE 141
ABOUT 2.4 MILES WEST OF ROUTE 61
BEGINNING STATION 1410+09.98± (Match Existing)

Detailed Apr 2024
Checked Apr 2024

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

Sheet No. 1 of 1

STATE OF MISSOURI RYAN G. HAGERTY NUMBER PE-2016034015 PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED, AND DATED ELECTRONICALLY

DATE PREPARED 1/28/2025

ROUTE	STATE
100	MO
DISTRICT	SHEET NO.
BR	1

COUNTY: ST. LOUIS
JOB NO.: J6P3274
CONTRACT ID.:
PROJECT NO.:
BRIDGE NO.: A09602

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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16305 SWINGLEY RIDGE RD ST. 300
CHESTERFIELD, MO 63017
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GEORGE BUTLER ASSOCIATES, INC.
PRO. ENGINEER 000133
ARCHITECT 000212
PRO. LAND SURVEYOR 000059

RYAN G. HAGERTY
PROFESIONAL ENGINEER
PE-2016034015

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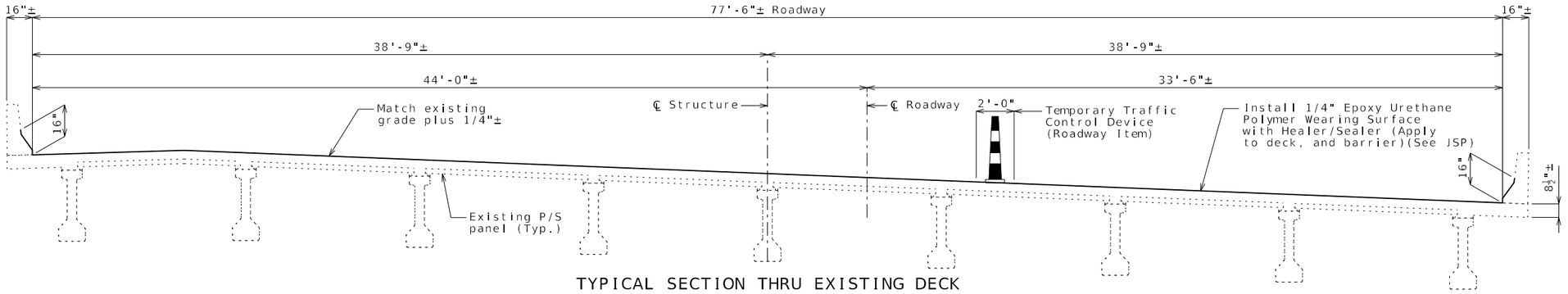
SEC/SUR 33 TWP 45N RGE 5E

U.I.P. AND REHABILITATE EXISTING (70'-39') PRESTRESSED CONCRETE I-GIRDER SPANS (SKEW: VARIES)



TYPICAL SECTION THRU EXISTING DECK

GENERAL NOTES:

Design Specifications:

2002 AASHTO LFD (17th Ed.) Standard Specifications
Bridge Deck Rating = 7

Design Loading:

HS20-44 plus 35 psf Future Wearing Surface

Miscellaneous:

See Job Special Provisions for Construction Requirements.

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.

The contractor shall exercise care to ensure spillage over joint edges is prevented and that a neat line is obtained along any terminating edge of the wearing surface.

Traffic Handling:

Traffic to be maintained on structure during construction. See roadway plans for traffic control.

Open Cell Foam Joint:

Open cell foam joint seal size (width and depth) shall be determined by the manufacturer. Manufacturer recommended seal size shall meet the movement and installation gap requirements and skew effect.

The open cell foam joint seal shall be installed according to the manufacturer's recommendations.

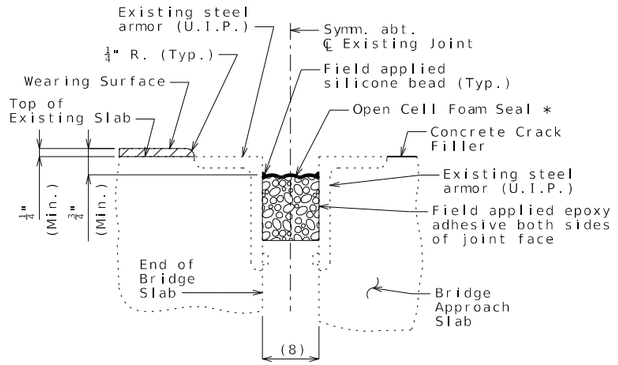
The installation temperature shall be taken as the actual air temperature averaged over the 24-hour period immediately preceding installation.

(8) Allowed installation gap (±) normal to joint at roadway surface. (See Table)

FOAM JOINT SEAL

Movement Parallel to Rdwy	Movement Normal to Joint	Min. Jt. Width (Normal to Joint)	Max. Jt. Width (Normal to Joint)	(7) Allowed Installation Gap (±) Normal to Joint at Roadway Surface at Air/Surface Temperature				Manufacturer	Seal Name
				@ 40°F	@ 50°F	@ 60°F	@ 70°F		
1.01"	1.01"	1.85"	2.85"	2⅜"	2⅜"	2¼"	2⅛"		

MoDOT construction personnel will record the manufacturer and seal name that was used.



SECTION THRU JOINT AT END BENT NO. 1

Remove existing expansion joint seal at End Bent No. 1 and install new open cell foam joint seal.

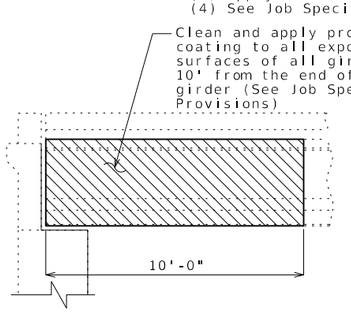
* Manufacturer's recommended size

Extend seal 3" past edges of slab.

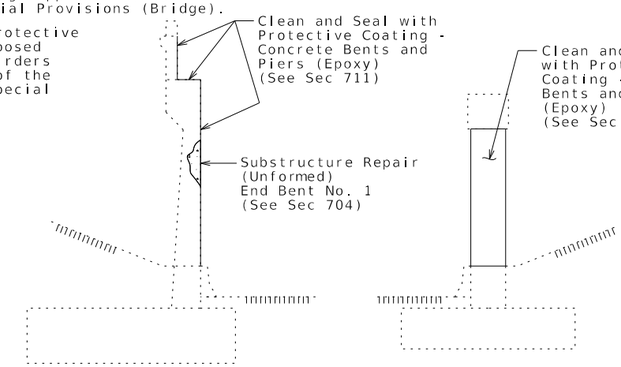
Estimated Quantities

	Item		Total
	Removal of Existing Expansion Joint Seal or Sealant	linear foot	78
(1)(4)	Epoxy Urethane Polymer Wearing Surface with Healer/Sealer	sq. yard	980
	Substructure Repair (Unformed)	sq. foot	20
(2)	Half-Sole Repair	sq. foot	60
(3)	Concrete Crack Filler	sq. yard	434
	Protective Coating - Concrete Bents and Piers (Epoxy)	lump sum	1
(4)	Cleaning and Protective Coating (Epoxy)	sq. foot	870
	Open Cell Foam Joint Seal	linear foot	78

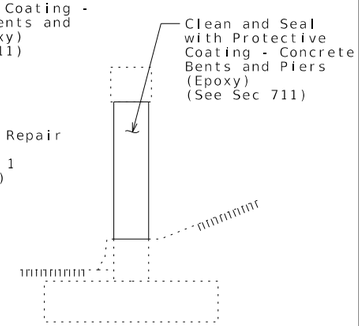
(1) Bridge Deck area from fill face to fill face of end bents, and 16 inches up roadway face of barriers.
(2) On End Bent No. 3 appraoch slab. See details below.
(3) Apply to bridge approach slabs.
(4) See Job Special Provisions (Bridge).



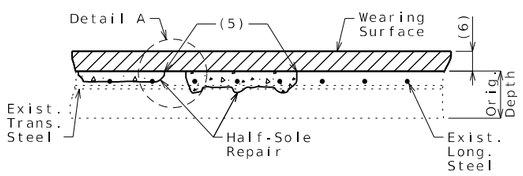
SECTION NEAR END BENT NO. 1 SHOWING COATING ON PRESTRESSED GIRDERS



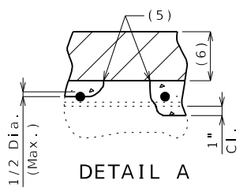
TYPICAL SECTION THRU END BENT 1 SHOWING SUBSTRUCTURE REPAIR AND PROTECTIVE COATING



TYPICAL SECTION THRU INT. BENT 2 SHOWING PROTECTIVE COATING



HALF-SOLE REPAIR ON END BENT NO. 3 BRIDGE APPRAOCH SLAB



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.

(5) 1" vertical side shall be established outside the deteriorated area.

(6) 1/4" minimum epoxy urethane polymer wearing surface with healer/sealer

ESTIMATED REPAIR QUANTITIES

Cleaning and Protective Coating (Epoxy)
870 sq. ft. @ Girder Ends @ End Bent No. 1

Substructure Repair (Unformed)
15 sq. ft. @ End Bent No. 1

Substructure repair quantities shall be confirmed with the Engineer prior to ordering materials or beginning work.

Shotcrete is required for all unformed repairs.

REPAIRS TO BRIDGE: ROUTE 100 EB OVER DES PERES RD.

ROUTE 100 FROM ROUTE 141 TO ROUTE I-270
ABOUT 3.1 MILES EAST OF ROUTE 141
BEGINNING STATION 1425+65.50± (Match Existing)

Detailed Apr 2024
Checked Apr 2024

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

STATE OF MISSOURI
RYAN G. HAGERTY
NUMBER PE-2016034015
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED, AND DATED ELECTRONICALLY

DATE PREPARED
2/5/2025

ROUTE	STATE
100	MO
DISTRICT	SHEET NO.
BR	1

COUNTY
ST. LOUIS

JOB NO.
J6P3274

CONTRACT ID.

PROJECT NO.

BRIDGE NO.
A50161

DESCRIPTION

DATE

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

GBA
16305 SWINGLEY RIDGE RD
ST. 300
CHESTERFIELD, MO 63017
314.231.0100
GBAteam.com

GEORGE BUTLER ASSOCIATES, INC.
PRO. ENGINEER 000133
ARCHITECT 000212
PRO. LAND SURVEYOR 000059

RYAN G. HAGERTY
PROFESIONAL ENGINEER
PE-2016034015

DESIGN DESIGNATION

A.A.D.T. - 2023 = 23,244
T = 10.6%
V = 45 M.P.H.

FUNCTIONAL CLASSIFICATION - PRINCIPAL ARTERIAL

NO RIGHT OF WAY IS TO BE ACQUIRED FOR THIS PROJECT

DISCLAIMER
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CONVENTIONAL SYMBOLS
(USED IN PLANS)

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

NOTE: DASHED OR OPEN SYMBOLS INDICATE EXISTING FEATURES

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

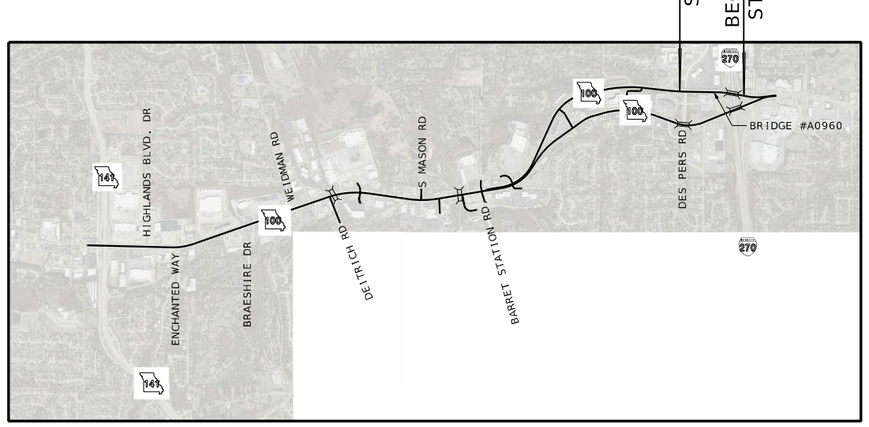
PLANS FOR PROPOSED STATE HIGHWAY

MO ROUTE 100 (MANCHESTER ROAD) ROADWAY IMPROVEMENTS A56822 REHABILITATION MoDOT JOB NO. J6P3274B ST. LOUIS COUNTY

ROUTE 100 PROJECT LIMITS
GUARDRAIL, GRADING, & ROADWAY ITEMS
REHABILITATE BR. A56822

END PROJECT STA. 1425+40
BEGIN PROJECT STA. 1408+50

NOT TO SCALE



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

INDEX OF SHEETS

DESCRIPTION	SHEET NUMBER
TITLE SHEET	1
TYPICAL SECTIONS (TS)	2
QUANTITIES (QU) (3 SHEETS)	3
PLAN (PL)	4-5
TRAFFIC CONTROL SHEETS (TC)	6-11
DETOUR SHEET (DT)	12
LIGHTING (LT)	13
BRIDGE DRAWINGS (B)	
A56822	1-7

LENGTH OF PROJECT

BEGINNING OF PROJECT	STA. 1408+50
END OF PROJECT	STA. 1425+40
APPARENT LENGTH	1,690 FEET
EQUATIONS AND EXCEPTIONS:	
TOTAL CORRECTIONS	0 FEET
NET LENGTH OF PROJECT	1,690 FEET
STATE LENGTH	0.32 MILES
FOR INFORMATION ONLY ESTIMATED DISTURBED ACRES	0.1 ACRES

STATE OF MISSOURI
BRIAN D. KIERATH JR. NUMBER PE-2023008624
PROFESSIONAL ENGINEER
04/02/2025 9:33:18 AM
Brian D. Kierath Jr. - Civil
MO PE-2023008624

DATE PREPARED 4/2/2025

ROUTE	STATE
100	MO
DISTRICT	SHEET NO.
SL	1

COUNTY ST. LOUIS
JOB NO. J6P3274B
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)

GBA
16305 SWINGLEY RIDGE RD
ST. 300
CHESTERFIELD, MO 63017
314.231.0100
GBAteam.com

GEORGE BUTLER ASSOCIATES, INC.
PRO. ENGINEER 000133
ARCHITECT 000212
PRO. LAND SURVEYOR 000059

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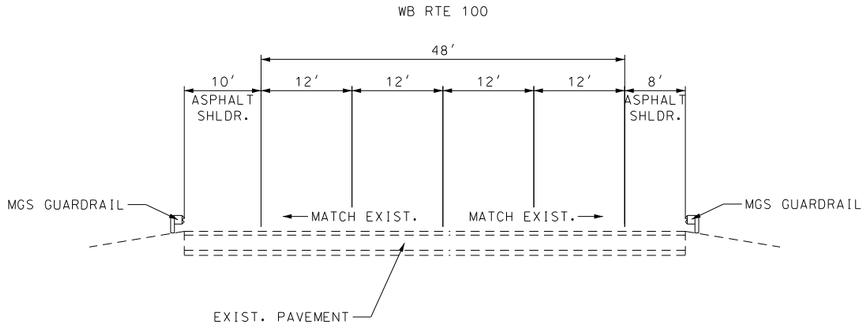
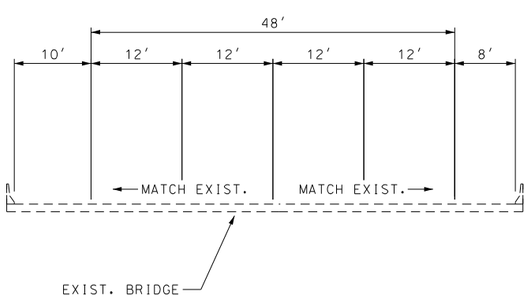


1 TYPICAL SECTION WB ROUTE 100 MANCHESTER ROAD

STA. 1408+50 TO STA. 1409+90
STA. 1424+80 TO STA. 1425+40



2 TYPICAL BRIDGE SECTION A56822

STA. 1409+90 TO STA. 1424+80

STATE OF MISSOURI
BRIAN D. KIERATH JR.
NUMBER PE-2023008624
PROFESSIONAL ENGINEER
04/02/2025 9:33:48 AM
Brian D. Kierath Jr. - Civil
MO PE-2023008624

DATE PREPARED
4/2/2025

ROUTE	STATE
100	MO
DISTRICT	SHEET NO.
SL	2

COUNTY
ST. LOUIS

JOB NO.
J6P3274B

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)

GBA
16305 SWINGLEY RIDGE RD
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GEORGE BUTLER ASSOCIATES, INC.
PRO. ENGINEER 000133
ARCHITECT 000212
PRO. LAND SURVEYOR 000059

TYPICAL SECTION

MO ROUTE 100
MANCHESTER ROAD

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MOBILIZATION	
TOTAL	1 LUMP SUM

CONTRACTOR FURNISHED SURVEYING AND STAKING	
TOTAL	1 LUMP SUM

REMOVAL OF IMPROVEMENTS - 1 LUMP SUM

SHEET NO.	ROADWAY	STATION BEGIN	STATION END	LOCATION	LENGTH (FEET)	WIDTH (FEET)	AREA (SF)	AREA (SY)	EACH	DESCRIPTION
4	WB RTE 100	1409+32.00	1409+70.00	LT	100.00	-	-	-	-	EXISTING GUARDRAIL
4	WB RTE 100	1409+70.00	1409+71.00	RT	1.00	-	-	-	-	CLEAR OUT EXISTING DITCH AT BASE OF CONCRETE SLOPE
4	WB RTE 100	1413+63.00		RT	84.00	-	-	-	-	EXISTING GUARDRAIL
4	WB RTE 100	1413+91.00		RT	82.00	-	-	-	-	EXISTING SIDEWALK

MGS GUARDRAIL

SHEET NO.	ROADWAY	STATION BEGIN	STATION END	LOCATION	MGS GUARDRAIL (LF)	MGS BRIDGE APPROACH TRANSITION SECTION (REGULAR/NO CURB) (EACH)	TYPE A CRASHWORTHY END TERMINAL (MASH) (EACH)	"SHAPING SLOPES CLASS III" (MODIFIED) (100FT)	REMARKS
4	WB RTE 100	1409+32	1409+70	LT	-	1	1	1.40	
4	WB RTE 100	1413+63		RT	-	1	1	1.40	I-270 TO WB 100 OFF RAMP
4	WB RTE 100	1413+91		RT	-	1	1	1.40	I-270 TO WB 100 OFF RAMP
				SUBTOTAL	0.0	3	3	4.20	
				PROJECT TOTAL	0	3	3	4	

FLOWABLE BACKFILL

SHEET NO.	ROADWAY	BRIDGE NO.	BRIDGE END	FLOWABLE BACKFILL (CY)
4	RTE 100	A56822	E	5
4	RTE 100	A56822	NW AT RAMP APPR	5
			SUBTOTAL	10
			PROJECT TOTAL	10

DRAINAGE IMPROVEMENTS

SHEET NO.	ROADWAY	STATION BEGIN	STATION END	LOCATION	FURNISHING TYPE 2 ROCK BLANKET (CY)	PLACING TYPE 2 ROCK BLANKET (CY)	PERMANENT EROSION CONTROL GEOTEXTILE (SY)	CONCRETE GUTTER TYPE A (LF)
4	WB RTE 100	1413+90.00	1414+05.00	RT	-	-	-	15.00
4	WB RTE 100	1414+03.36	1414+14.31	RT	10.67	10.67	5.33	-
				SUBTOTAL	10.67	10.67	5.33	15.00
				PROJECT TOTAL	11	11	5	15

BRIAN D. KIERATH JR. NUMBER PE-2023008624
PROFESSIONAL ENGINEER
STATE OF MISSOURI
04/02/2025 9:33:52 AM
Brian D. Kierath Jr. - Civil
MO PE-2023008624

DATE PREPARED
4/2/2025

ROUTE	STATE
100	MO
DISTRICT	SHEET NO.
SL	3

COUNTY
ST. LOUIS

JOB NO.
J6P3274B

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)

GBA
16305 SWINGLEY RIDGE RD
ST. 300
CHESTERFIELD, MO 63017
314.231.0100
GBAteam.com

GEORGE BUTLER
ASSOCIATES, INC.
PRO. ENGINEER 000133
ARCHITECT 000212
PRO. LAND SURVEYOR 000059

QUANTITIES

MO ROUTE 100
MANCHESTER ROAD

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POLES, FOUNDATIONS, & LUMINAIRES

SHEET	POLE NO.	ROADWAY	STATION	OFFSET	LIGHT POLE (EACH)		BRIDGE LIGHTING (LS)	BRACKET ARM (EACH)		LUMINAIRE (EACH)			POLE & BRACKET CABLE. #10 AWG (FT.)	MODOT 45' POLE FOUNDATION (EACH)
					45' M.H.	RELOCATED		10'	15'	250 W HPS	LED-B	LED-A WALL PACK (INCLUDING HOUSING)		
13		WB RTE 100	1415+04	1' Rt.								1		
13		WB RTE 100	1415+64	4' Rt.								2		
13		WB RTE 100	1416+23	7' Rt.								1		
13		WB RTE 100	1416+27	7' Rt.								1		
13		WB RTE 100	1416+92	8' Rt.								2		
13		WB RTE 100	1417+58	10' Rt.								1		
13		WB RTE 100	1417+61	10' Rt.								1		
13		WB RTE 100	1418+26	10' Rt.								2		
13		WB RTE 100	1418+92	10' Rt.								1		
13		WB RTE 100	1418+96	10' Rt.								1		
13		WB RTE 100	1419+55	10' Rt.								2		
13		WB RTE 100	1420+14	10' Rt.								1		
13		WB RTE 100	1420+17	10' Rt.								1		
13		WB RTE 100	1420+60	10' Rt.								2		
13		WB RTE 100	1421+02	10' Lt.								1		
13		WB RTE 100	1421+02	30' Rt.								1		
13		WB RTE 100	1421+06	10' Rt.								1		
13		WB RTE 100	1421+48	10' Rt.								2		
13		WB RTE 100	1421+91	10' Rt.								1		
13		WB RTE 100	1421+94	10' Rt.								1		
13		WB RTE 100	1422+37	10' Rt.								2		
13		WB RTE 100	1422+80	10' Rt.								1		
			PROJECT TOTAL				1					29		

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

DATE PREPARED
3/28/2025

MO ROUTE	STATE
100	MO
DISTRICT	SHEET NO.
SL	3

COUNTY
ST. LOUIS

JOB NO.
J6P3274B

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)

GBA
16305 SWINGLEY RIDGE RD
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CHESTERFIELD, MO 63017
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GEORGE BUTLER ASSOCIATES, INC.
PRO. ENGINEER 000133
ARCHITECT 000212
PRO. LAND SURVEYOR 000059

KENDRA MILLER
PROFESSIONAL ENGINEER
PE-2014041301

SHEET 2 OF 3

QUANTITIES

MO ROUTE 100
LIGHTING QUANTITIES

EFFECTIVE: 04-01-2024

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)
WO1-1R	48X48	16.00						TURN (SYMBOL RIGHT)
WO1-2L	48X48	16.00						CURVE (SYMBOL LEFT)
WO1-2R	48X48	16.00						CURVE (SYMBOL RIGHT)
WO1-3L	48X48	16.00						REVERSE TURN (SYMBOL LEFT)
WO1-3R	48X48	16.00						REVERSE TURN (SYMBOL RIGHT)
WO1-4L	48X48	16.00						REVERSE CURVE (SYMBOL LEFT)
WO1-4R	48X48	16.00						REVERSE CURVE (SYMBOL RIGHT)
WO1-4bL	48X48	16.00						DOUBLE ARROW REVERSE CURVE (SYMBOL LEFT)
WO1-4bR	48X48	16.00						DOUBLE ARROW REVERSE CURVE (SYMBOL RIGHT)
WO1-4cL	48X48	16.00						TRIPLE ARROW REVERSE CURVE (SYMBOL LEFT)
WO1-4cR	48X48	16.00						TRIPLE ARROW REVERSE CURVE (SYMBOL RIGHT)
WO1-6	60X30	12.50						HORIZONTAL ARROW (SYMBOL)
WO1-6a	72X36	18.00						HORIZ. ARROW (SYMBOL ON PERMANENT BARRICADE)
WO1-7	60X30	12.50						DOUBLE HEAD HORIZONTAL ARROW (SYMBOL)
WO1-7a	72X36	18.00						DOUBLE HEAD HORIZ. ARROW (SYMBOL ON PERM. BARR.)
WO1-8	18X24	3.00						CHEVRON (SYMBOL)
WO1-8a	30X36	7.50						CHEVRON (SYMBOL FOR DIVIDED HIGHWAYS)
WO3-1	48X48	16.00						STOP AHEAD (SYMBOL)
WO3-2	48X48	16.00						YIELD AHEAD (SYMBOL)
WO3-3	48X48	16.00						SIGNAL AHEAD (SYMBOL)
WO3-4	48X48	16.00						BE PREPARED TO STOP
WO3-5	48X48	16.00						SPEED LIMIT AHEAD
WO4-1L	48X48	16.00						MERGE (SYMBOL FROM LEFT)
WO4-1R	48X48	16.00						MERGE (SYMBOL FROM RIGHT)
WO4-1aL	48X48	16.00	1	16.00	3	48.00	6A	MERGE (LEFT)
WO4-1aR	48X48	16.00	1	16.00	2	32.00	6A	MERGE (RIGHT)
WO5-1	48X48	16.00	1	16.00	1	16.00	43	ROAD/BRIDGE/RAMP NARROWS
WO5-3	48X48	16.00						ONE LANE BRIDGE
WO5-5	48X48	16.00						NARROW LANES
WO6-1	48X48	16.00						DIVIDED HIGHWAY (SYMBOL)
WO6-2	48X48	16.00						DIVIDED HIGHWAY END (SYMBOL)
WO6-3	48X48	16.00						TWO WAY TRAFFIC (SYMBOL)
WO7-3a	30X24	5.00						NEXT XX MILES (PLAQUE)
WO8-1	48X48	16.00						BUMP
WO8-2	48X48	16.00						DIP
WO8-3	48X48	16.00						PAVEMENT ENDS
WO8-4	48X48	16.00						SOFT SHOULDER
WO8-5	48X48	16.00						SLIPPERY WHEN WET (SYMBOL)
WO8-6	48X48	16.00						TRUCK CROSSING
WO8-6c	48X48	16.00						TRUCK ENTRANCE
WO8-7	36X36	9.00						LOOSE GRAVEL
WO8-7a	36X36	9.00						FRESH OIL / LOOSE GRAVEL
WO8-9	48X48	16.00						LOW SHOULDER
WO8-11	48X48	16.00						UNEVEN LANES
WO8-12	48X48	16.00						NO CENTER LINE
WO8-15	48X48	16.00						GROOVED PAVEMENT
WO8-15P	30X24	5.00						MOTORCYCLE (PLAQUE)
WO8-17L	48X48	16.00						SHOULDER DROP-OFF (SYMBOL LEFT)
WO8-17R	48X48	16.00						SHOULDER DROP-OFF (SYMBOL RIGHT)
WO8-17P	30X24	5.00						SHOULDER DROP-OFF (PLAQUE)
W10-1	42RND.	9.62						RAILROAD CROSSING
WO12-1	24X24	4.00	1	4.00	3	12.00	59	DOUBLE DOWN ARROW (SYMBOL)
WO12-2	48X48	16.00						LOW CLEARANCE (SYMBOL)
WO12-2x	24X18	3.00						LOW CLEARANCE (PLAQUE)
WO12-2a	84X24	14.00						OVERHEAD LOW CLEARANCE (FEET AND INCHES)
WO12-4	120X60	50.00						LOW CLEARANCE XX FT XX IN XX MILES AHEAD
WO12-5	120X60	50.00						WIDTH RESTRICTION XX FT XX IN XX MILES AHEAD
WO13-1	30X30	6.25						ADVISORY SPEED (PLAQUE)
WO16-2	30X24	5.00						XXX FEET (PLAQUE)
WO16-3	30X24	5.00						X MILE (PLAQUE)
WO20-1	48X48	16.00	3	48.00	10	160.00	2	ROAD/BRIDGE/RAMP WORK AHEAD
WO20-2	48X48	16.00	1	16.00			18	DETOUR AHEAD
WO20-3	48X48	16.00	2	32.00			19/20	ROAD CLOSED AHEAD
WO20-4	48X48	16.00						ONE LANE ROAD AHEAD
WO20-5	48X48	16.00	2	32.00	8	128.00	5	RIGHT/CENTER/LEFT LANE CLOSED AHEAD
WO20-5a	48X48	16.00						2 RIGHT/CENTER/LEFT LANES CLOSED AHEAD
WO20-6a	48X48	16.00	1	16.00	4	64.00	6	RIGHT/CENTER/LEFT LANE CLOSED
WO20-7a	48X48	16.00						FLAGGER (SYMBOL)
WO21-2	36X36	9.00						FRESH OIL
WO21-5	48X48	16.00						SHOULDER WORK / SHOULDER WORK AHEAD
WO22-1	48X48	16.00						BLASTING ZONE AHEAD
WO22-2	42X36	10.50						TURN OFF 2-WAY RADIO AND PHONE
WO22-3	42X36	10.50						END BLASTING ZONE
GO22-1	21X15	2.19						WET PAINT (ARROW PIVOTS)

SIGN	SIZE IN.	AREA SQ.FT.	QTY EACH	TOTAL SQ.FT.	QTY RELOC EACH	TOTAL RELOC SQ.FT.	SIGN NUM.	DESCRIPTION
GUIDE SIGNS								
E05-1	36X48	12.00	1	12.00	1	12.00	49	GORE EXIT
E05-2	48X36	12.00						EXIT OPEN
E05-2a	48X36	12.00	1	12.00	1	12.00	61	EXIT CLOSED
GO20-1	60X24	10.00						ROAD WORK NEXT XX MILES
GO20-2	48X24	8.00	2	16.00			26	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						WORK ZONE (PLAQUE)
MO4-8a	24X18	3.00	1	3.00			52	END DETOUR
MO4-9L	48X36	12.00						DETOUR (LEFT)
MO4-9R	48X36	12.00						DETOUR (RIGHT)
MO4-9P	48X12	4.00						STREET NAME (PLAQUE)
MO4-10L	48X18	6.00						DETOUR ARROW (LEFT)
MO4-10R	48X18	6.00						DETOUR ARROW (RIGHT)
REGULATORY SIGNS								
R1-1	48X48	13.25						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
R4-7a	36X48	12.00						KEEP RIGHT (HORIZONTAL ARROW)
R4-8a	36X48	12.00						KEEP LEFT (HORIZONTAL ARROW)
R5-1	30X30	6.25						DO NOT ENTER
R5-1a	36X24	6.00						WRONG WAY
R6-1L	54X18	6.75						ONE WAY ARROW (LEFT)
R6-1R	54X18	6.75						ONE WAY ARROW (RIGHT)
R6-2L	24X30	5.00						ONE WAY (LEFT)
R6-2R	24X30	5.00						ONE WAY (RIGHT)
R9-9	24X12	2.00						SIDEWALK CLOSED
R9-11L	24X18	3.00						SIDEWALK CLOSED AHEAD, (ARROW LEFT) CROSS HERE
R9-11R	24X18	3.00						SIDEWALK CLOSED AHEAD, (ARROW RIGHT) CROSS HERE
R10-6	24X36	6.00						STOP HERE ON RED (45^ ARROW)
R11-2	48X30	10.00	1	10.00			29	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
W024-1L	48X48	16.00						DOUBLE REVERSE CURVE (SYMBOL LEFT)(2 LANES)
W024-1R	48X48	16.00						DOUBLE REVERSE CURVE (SYMBOL RIGHT)(2 LANES)
SPECIAL	VAR.	29.70	9	267.30			50F-50K	DETOUR ROUTE SIGN ASSEMBLY

	TOTAL
616-10.05 CONSTRUCTION SIGNS	517
616-10.10 RELOCATED SIGNS	452

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		IMPACT ATTENUATOR 70 MPH (SAND BARRELS)
6122020		REPLACEMENT SAND BARREL
6122030		IMPACT ATTENUATOR (RELOCATION)
6123001	1*	TRUCK MOUNTED ATTENUATOR (TMA)
6161008		ADVANCED WARNING RAIL SYSTEM
6161012		BUOYS (BOATS KEEP OUT)
6161013		BUOYS (NO WAKE)
6161014		SPECIAL SIGN ASSEMBLY (BOATS KEEP OUT)
6161025	123	CHANNELIZER (TRIM LINE)
6161030	8	TYPE III MOVEABLE BARRICADE
6161033	8	DIRECTION INDICATOR BARRICADE
6161040	1	FLASHING ARROW PANEL
6161047		TYPE III OBJECT MARKER
6161055		SEQUENTIAL FLASHING WARNING LIGHT
6161070		TUBULAR MARKER
6161095		RADAR SPEED ADVISORY SYSTEM
6161096		CHANGEABLE MESSAGE SIGN, COMMISSION FURNISHED/RETAINED
6161098A	2*	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
6173600D		TEMPORARY TRAFFIC BARRIER 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
6205301B		TEMPORARY REMOVABLE MARKING TAPE 4 IN., WHITE
6205303B		TEMPORARY REMOVABLE MARKING TAPE 4 IN., YELLOW
6122040		WORK ZONE CRASH CUSHION (NARROW)
6122041		WORK ZONE CRASH CUSION (NARROW) (RELOCATION)

* ITEMS NOT INCLUDED IN TEMPORARY TRAFFIC CONTROL - 1 LUMP SUM

NOTE: ALL TRAFFIC CONTROL ARE INCLUDED IN PAY ITEM 616-99.01, LUMP SUM TEMPORARY TRAFFIC CONTROL UNLESS NOTED OTHERWISE IN THE PLANS. THESE QUANTITIES ARE ONLY AN ESTIMATE AND ARE SUBJECT TO CHANGE BASED UPON FIELD CONDITIONS.

ALL TRAFFIC CONTROL ITEMS ARE INCLUDED IN THE ITEM NO. 6169901. TEMPORARY TRAFFIC CONTROL, LUMP SUM, UNLESS OTHERWISE NOTED.

SHEET 3 OF 3

TRAFFIC CONTROL SHEET

MO ROUTE 100
TRAFFIC CONTROL QUANTITIES

STATE OF MISSOURI
KENDRA MILLER
NUMBER PE-2014041301
PROFESSIONAL ENGINEER

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

DATE PREPARED
3/28/2025

MO ROUTE	STATE
100	MO
DISTRICT	SHEET NO.
SL	3

COUNTY
ST. LOUIS

JOB NO.
J6P3274B

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)

GBA
16305 SWINGLEY RIDGE RD
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GBAteam.com

GEORGE BUTLER ASSOCIATES, INC.
PRO. ENGINEER 000133
ARCHITECT 000212
PRO. LAND SURVEYOR 000059

KENDRA MILLER
PROFESSIONAL ENGINEER
PE-2014041301

SCALE
0 50 100 150

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STA. 1407+00

PT STA 1407+53.72

STA 1409+90 BEGIN EPOXY URETHANE POLYMER WEARING SURFACE

BEGIN PROJECT STA 1408+50

EXIST. GUARDRAIL (UIP)

EXIST. LIGHT POLE (UIP)

SAWCUT 1 LF CURB FOR DRAINAGE AS DIRECTED BY ENGINEER

1410

EXIST. SIGN (UIP)

EXIST. GUARDRAIL (R)

℄ ROUTE 100 WB STA. 1409+32 TO STA. 1409+70 LT
INSTALL 1 TYPE A CRASHWORTHY END TEMRINAL (MASH)
W/ 1 MGS BRIDGE APPROACH TRANSITION SECTION
(REGULAR / NO CURB)

5 CU. YD. FLOWABLE FILL

CLEAN OUT CONCRETE DITCH

N79°59'05"W

PC STA 1411+66.07

EXIST. GUARDRAIL (UIP)
EXIST. POWER POLE (UIP)
EXIST. SIGN (UIP)
EXIST. GUARDRAIL (UIP)

I-270 RAMP

1415

PT STA 1416+22.18

BRIDGE A56822

℄ WB ROUTE 100

N89°19'05"

100 RAMP

REPLACE UNDERBRIDGE LIGHTING

STA. 1420+00

MATCHLINE STA. 1420+00

INSTALL 5 CU. YD. FLOWABLE BACKFILL
AT NW CORNER OF BRIDGE
AND REPAIR EROSION
AS DIRECTED BY THE ENGINEER

℄ ROUTE 100 WB RAMP LT
INSTALL 1 TYPE A CRASHWORTHY END TEMRINAL (MASH)
W/ 1 MGS BRIDGE APPROACH TRANSITION SECTION
(REGULAR / NO CURB)

℄ ROUTE 100 WB RAMP RT
INSTALL 1 TYPE A CRASHWORTHY END TEMRINAL (MASH)
W/ 1 MGS BRIDGE APPROACH TRANSITION SECTION
(REGULAR / NO CURB)

℄ WB ROUTE 100 RAMP RT
INSTALL 15 LF CONCRETE GUTTER TYPE A
AND 11 CUYD TYPE 2 ROCK BLANKET

PLAN SHEET LEGEND

- PROPOSED RIGHT-OF-WAY (NEW ROW)
- PERMANENT EASEMENT (PERM. ESM'T.)
- TEMPORARY CONSTRUCTION EASEMENT (T.C.E.)
- CONSTRUCTION LIMITS (SL)
- PROPOSED EPOXY URETHANE POLYMER OVERLAY
- SIDEWALK REMOVAL
- PROPOSED SIDEWALK
- PROPOSED MILL/OVERLAY

STATE OF MISSOURI
BRIAN D. KIERATH JR.
NUMBER PE-2023008624
PROFESSIONAL ENGINEER

04/02/2025 9:33:55 AM
Brian D. Kierath Jr. - Civil
MO PE-2023008624

DATE PREPARED
4/2/2025

ROUTE	STATE
100	MO
DISTRICT	SHEET NO.
SL	4

COUNTY
ST. LOUIS

JOB NO.
J6P3274B

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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GEORGE BUTLER ASSOCIATES, INC.
PRO. ENGINEER 000133
ARCHITECT 000212
PRO. LAND SURVEYOR 000059

SHEET 1 OF 2

PLAN SHEET

MO ROUTE 100
MANCHESTER ROAD

SCALE

0 50 100 150

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MATCHLINE STA. 1420+00

1420

1425

1430

1432+00

STA. 1432+00

EXIST. R/W

DES PERES RD

PC STA 1423+43.21

BRIDGE A56822

TREES (DND)

℄ WB ROUTE 100

STA. 1424+80 END PROJECT AND EPOXY URETHANE POLYMER WEARING SURFACE

EXIST. SIGN (UIP)

PT STA 1429+03.36

EXIST. GUARDRAIL (UIP)

EXIST. INLET (UIP)

EXIST. INLET (UIP)

EXIST. SIGN (UIP)

EXIST. LIGHT POLE (UIP)

TREES (DND)

ROUTE 100 RAMP

EXIST. SIGN (UIP)

N83°2

EXIST. R/W

EXIST. R/W

PLAN SHEET LEGEND

- PROPOSED RIGHT-OF-WAY (NEW ROW)
- PERMANENT EASEMENT (PERM. ESM'T.)
- TEMPORARY CONSTRUCTION EASEMENT (T.C.E.)
- CONSTRUCTION LIMITS (SL)
- PROPOSED EPOXY URETHANE POLYMER OVERLAY
- SIDEWALK REMOVAL
- PROPOSED SIDEWALK
- PROPOSED MILL/OVERLAY

SHEET 2 OF 2

PLAN SHEET

MO ROUTE 100
MANCHESTER ROAD

STATE OF MISSOURI
BRIAN D. KIERATH JR.
NUMBER PE-2023008624
PROFESSIONAL ENGINEER

04/02/2025 9:34:21 AM
Brian D. Kierath Jr. - Civil
MO PE-2023008624

DATE PREPARED
4/2/2025

ROUTE	STATE
100	MO
DISTRICT	SHEET NO.
SL	5

COUNTY
ST. LOUIS

JOB NO.
J6P3274B

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DATE	DESCRIPTION

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

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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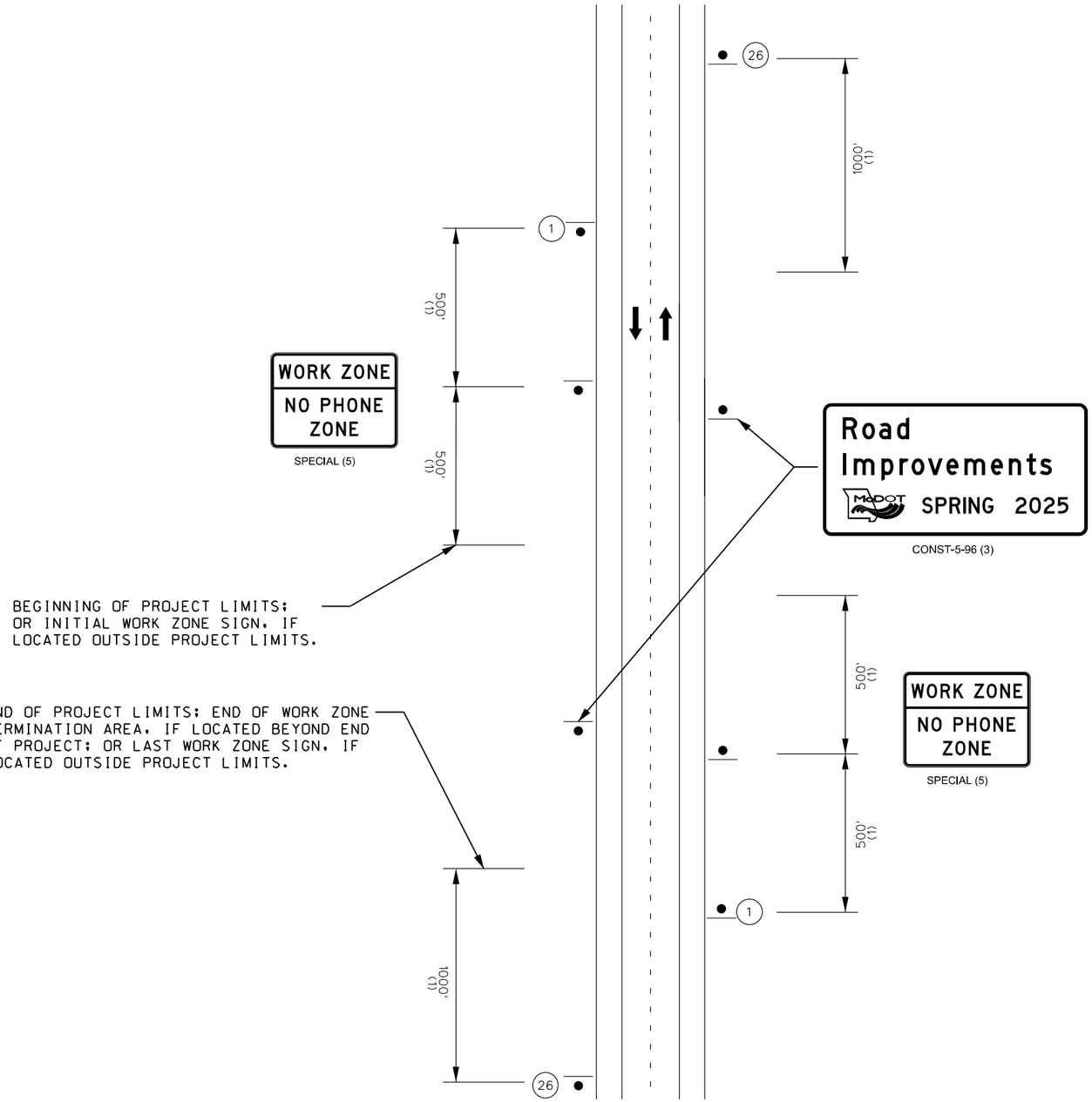

BEGIN/END OF PROJECT SIGNING

NOTES:

SIGN (1) IS REQUIRED PER EPG 616.6.56.

SIGN (26) IS USED ON ALL PROJECTS WHERE SIGN (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) SIGN CONST-5-96 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 "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 RIGHT 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.

(5) THE "WORK ZONE NO PHONE ZONE" SIGN IS PLACED 500 FEET BEFORE THE ROAD WORK AHEAD SIGN.

ROAD WORK
NEXT 1 MILES

GO20-1

(1)

END
ROAD WORK

GO20-2

(26)

SHEET 1 OF 6

TRAFFIC CONTROL SHEET

MO ROUTE 100
TYPICAL APPLICATION

STATE OF MISSOURI
KENDRA MILLER
NUMBER PE-2014041301
PROFESSIONAL ENGINEER

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

DATE PREPARED
3/28/2025

MO ROUTE	STATE
100	MO
DISTRICT	SHEET NO.
SL	6

COUNTY
ST. LOUIS

JOB NO.
J6P3274B

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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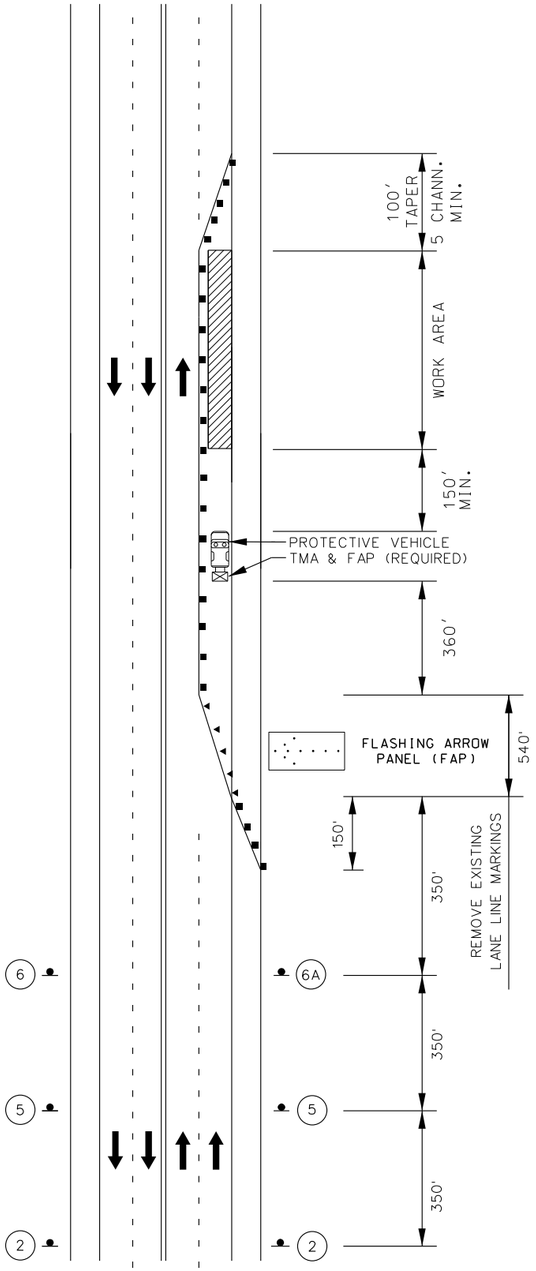
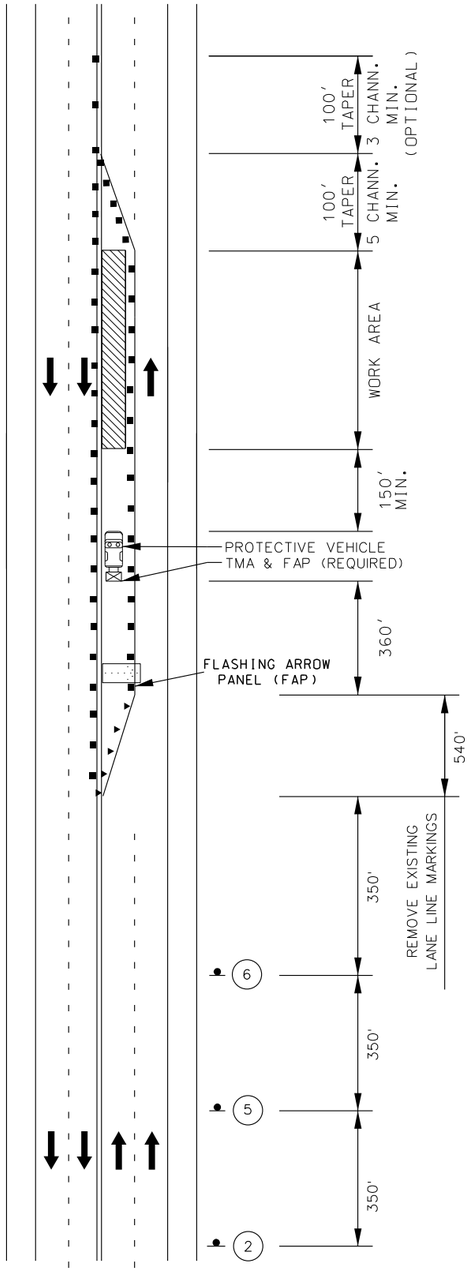
KENDRA MILLER
PROFESSIONAL
ENGINEER
PE-2014041301

REV.



OUTSIDE LANE CLOSURE
MULTI-LANE HIGHWAY



INSIDE LANE CLOSURE
MULTI-LANE HIGHWAY

WO20-1
(2)

WO20-5
(5)

WO20-6a
(6)

WO4-1aL
(6A)

CHANNELIZERS

DIRECTIONAL INDICATOR BARRICADES

NOTES:

(1) CHANNELIZERS WILL BE SPACE AT 40' INTERVALS ALONG THE WORK ZONE AND AT 20' INTERVALS WITHIN TAPERS.

(2) ALWAYS USE A PROTECTIVE VEHICLE WITH A FLASHING ARROW PANEL (FAP) AND A TRUCK/TRAILER MOUNTED ATTENUATOR (TMA).

(3) OPERATE THE FAP IN THE FOUR CORNER OR ALTERNATING DIAMOND CAUTION MODE.

(4) A WORK VEHICLE MAY BE USED AS A PROTECTIVE VEHICLE FOR ROADWAY SEGMENTS POSTED AT 45 MPH OR LESS.

STATE OF MISSOURI
KENDRA MILLER
NUMBER PE-2014041301
PROFESSIONAL ENGINEER

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

DATE PREPARED
3/28/2025

MO ROUTE	STATE
100	MO
DISTRICT	SHEET NO.
SL	7

COUNTY
ST. LOUIS

JOB NO.
J6P3274B

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

REV.	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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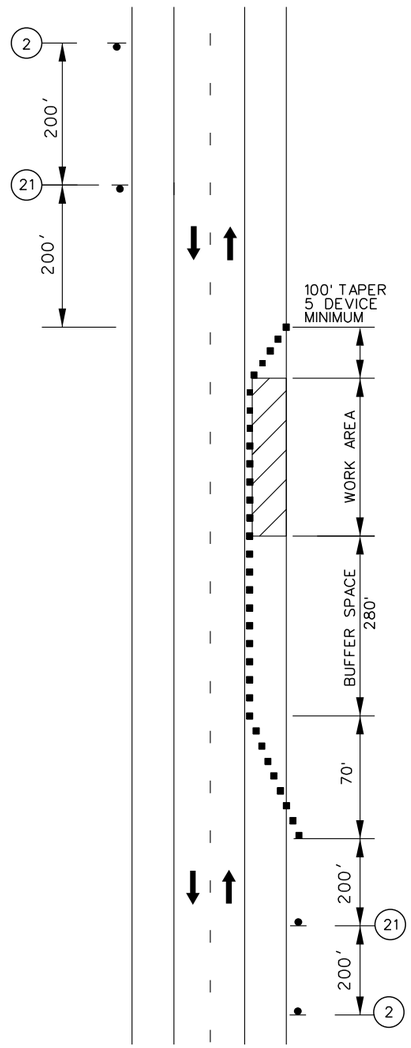
PRO. ENGINEER 000133
ARCHITECT 000212
PRO. LAND SURVEYOR 000059

SHEET 2 OF 6

TRAFFIC CONTROL SHEET

MO ROUTE 100
TYPICAL APPLICATION

KENDRA MILLER
PROFESSIONAL
ENGINEER
PE-2014041301



WORK ON THE SHOULDER
ON DIVIDED AND UNDIVIDED
HIGHWAYS

NOT TO SCALE

SPEED	SIGN SPACING (ft.)		TAPER LENGTH (ft.)		OPTIONAL	CHANNELIZER SPACING (ft.)	
PERM. POSTED (MPH)	UN -DIVIDED (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)
- CHANNELIZER (TRIM-LINE)
- WORK AREA

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.

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

WHEN PAVED SHOULDERS HAVING A WIDTH OF 8 FEET OR MORE ARE CLOSED, AT LEAST ONE ADVANCE WARNING SIGN SHALL BE USED. IN ADDITION, CHANNELIZING DEVICES SHALL BE USED TO CLOSE THE SHOULDER IN ADVANCE TO DELINEATE THE BEGINNING OF THE WORK SPACE AND DIRECT VEHICULAR TRAFFIC TO REMAIN WITHIN THE TRAVELED WAY.

THE ADVANCED WARNING RAIL SYSTEM IS INSTALLED ON THE ACTIVE FIRST OCCURANCE OF THE ROAD WORK AHEAD (WO20-1) AND ROAD CLOSED AHEAD (WO20-3) SIGNS ON THE MAINLINE ROADWAY.

STATE OF MISSOURI
KENDRA MILLER
NUMBER PE-2014041301
PROFESSIONAL ENGINEER

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

DATE PREPARED
3/28/2025

MO ROUTE	STATE
100	MO
DISTRICT	SHEET NO.
SL	8

COUNTY
ST. LOUIS

JOB NO.
J6P3274B

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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GEORGE BUTLER
ASSOCIATES, INC.
PRO. ENGINEER 000133
ARCHITECT 000212
PRO. LAND SURVEYOR 000059

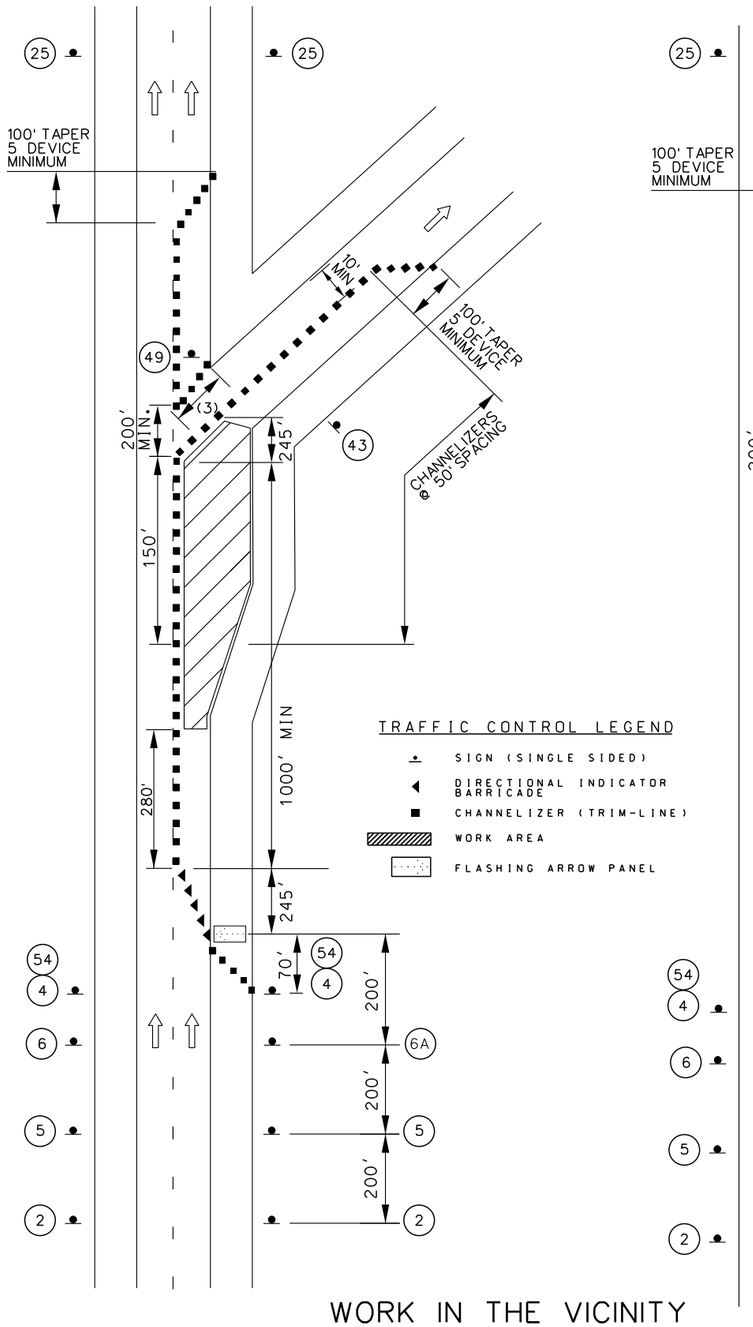
SHEET 3 OF 6

TRAFFIC CONTROL SHEET

MO ROUTE 100
TYPICAL APPLICATION

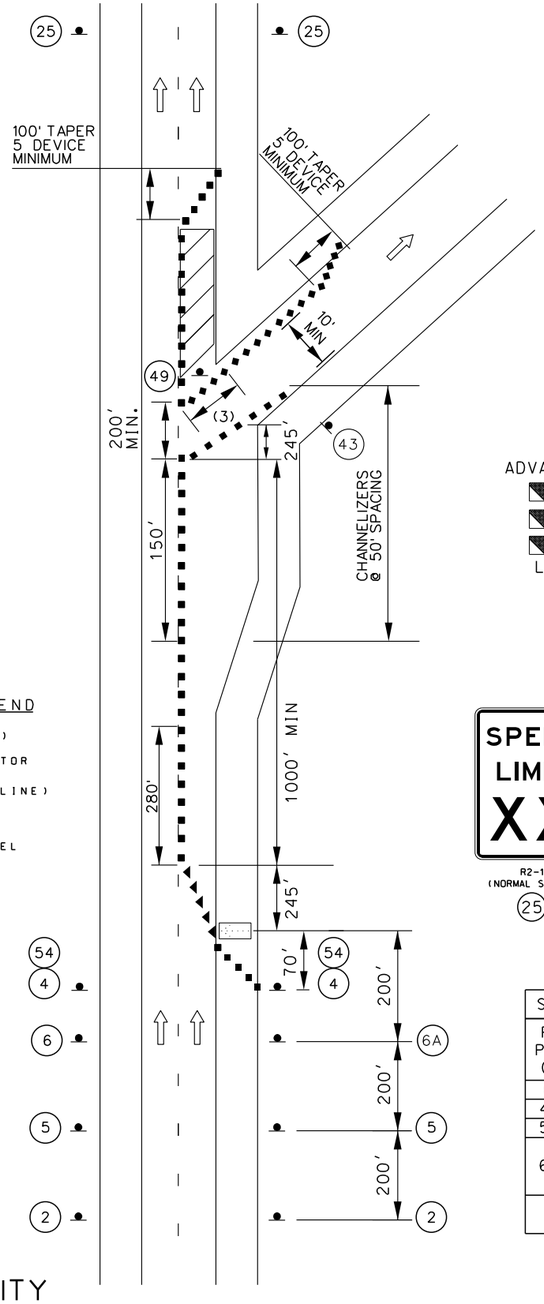
KENDRA MILLER
PROFESSIONAL
ENGINEER
PE-2014041301

REV.



TRAFFIC CONTROL LEGEND

- SIGN (SINGLE SIDED)
- DIRECTIONAL INDICATOR BARRICADE
- CHANNELIZER (TRIM-LINE)
- WORK AREA
- FLASHING ARROW PANEL



WORK IN THE VICINITY
OF AN EXIT RAMP

NOT TO SCALE

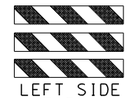
W04-1a
6A

W020-1
2

W020-6a
6

W020-5
5

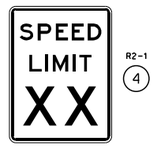
ADVANCE WARNING RAIL SYSTEM



LEFT SIDE
OF ROAD

RIGHT SIDE
OF ROAD

G020-5aP
54



R2-1
4

W05-1
43

E05-1
49

R2-1
(NORMAL SPEED)
25

NOTES:

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

TEMPORARY PAVEMENT MARKING REQUIRED WITH LONG TERM LANE CLOSURES.

RAMP NARROWS SIGN IS REQUIRED WHEN RAMP WIDTH IS REDUCED.

(3) 5 CHANNELIZER DEVICES MINIMUM

THE ADVANCED WARNING RAIL SYSTEM IS INSTALLED ON THE ACTIVE FIRST OCCURANCE OF THE ROAD WORK AHEAD (W020-1) AND ROAD CLOSED AHEAD (W020-3) SIGNS ON THE MAINLINE ROADWAY.

SPEED	SIGN SPACING (ft.)		TAPER LENGTH (ft.)		OPTIONAL	CHANNELIZER SPACING (ft.)	
PERM. POSTED (MPH)	UN -DIVIDED (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.

STATE OF MISSOURI
KENDRA MILLER
NUMBER PE-2014041301
PROFESSIONAL ENGINEER

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

DATE PREPARED
3/28/2025

MO ROUTE	STATE
100	MO
DISTRICT	SHEET NO.
SL	9

COUNTY
ST. LOUIS

JOB NO.
J6P3274B

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)

GBA
16305 SWINGLEY RIDGE RD
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CHESTERFIELD, MO 63017
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GBAteam.com

GEORGE BUTLER
ASSOCIATES, INC.
PRO. ENGINEER 000133
ARCHITECT 000212
PRO. LAND SURVEYOR 000059

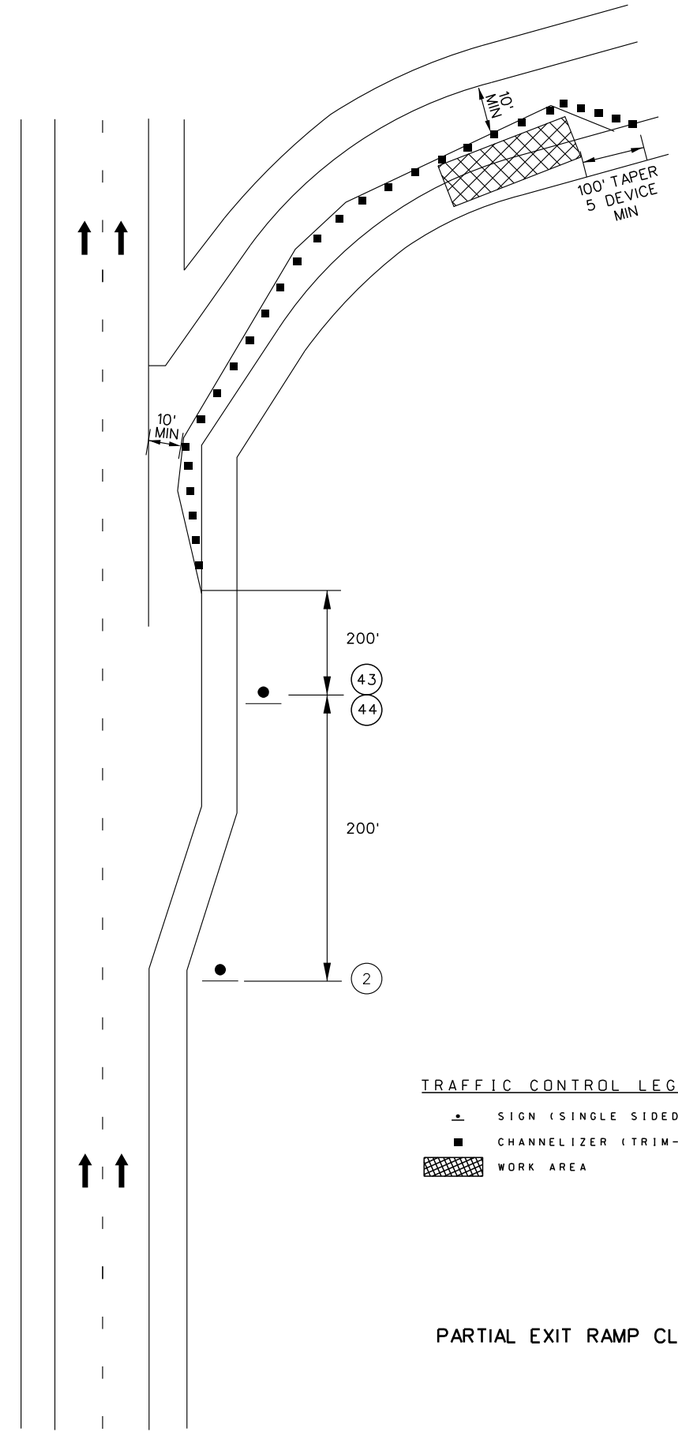
SHEET 4 OF 6

TRAFFIC CONTROL SHEET

MO ROUTE 100
TYPICAL APPLICATION

KENDRA MILLER
PROFESSIONAL
ENGINEER
PE-2014041301

REV.



NOTES:

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

TEMPORARY PAVEMENT MARKING OPTIONAL FOR SHORT TERM OPERATIONS.

RAMP NARROWS SIGN IS REQUIRED WHEN RAMP WIDTH IS REDUCED.

THE ADVANCED WARNING RAIL SYSTEM IS INSTALLED ON THE ACTIVE FIRST OCCURANCE OF THE ROAD WORK AHEAD (W020-1) AND ROAD CLOSED AHEAD (W020-3) SIGNS ON THE MAINLINE ROADWAY.

TRAFFIC CONTROL LEGEND

- SIGN (SINGLE SIDED)
- CHANNELIZER (TRIM-LINE)
- WORK AREA

SPEED	SIGN SPACING (ft.)		TAPER LENGTH (ft.)		OPTIONAL	CHANNELIZER SPACING (ft.)	
PERM. POSTED (MPH)	UN -DIVIDED (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.

PARTIAL EXIT RAMP CLOSURE

NOT TO SCALE

STATE OF MISSOURI
KENDRA MILLER
NUMBER PE-2014041301
PROFESSIONAL ENGINEER

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

DATE PREPARED 3/28/2025

MO ROUTE	STATE
100	MO
DISTRICT	SHEET NO.
SL	10

COUNTY: ST. LOUIS
JOB NO.: J6P3274B
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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16305 SWINGLEY RIDGE RD
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CHESTERFIELD, MO 63017
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GBAteam.com

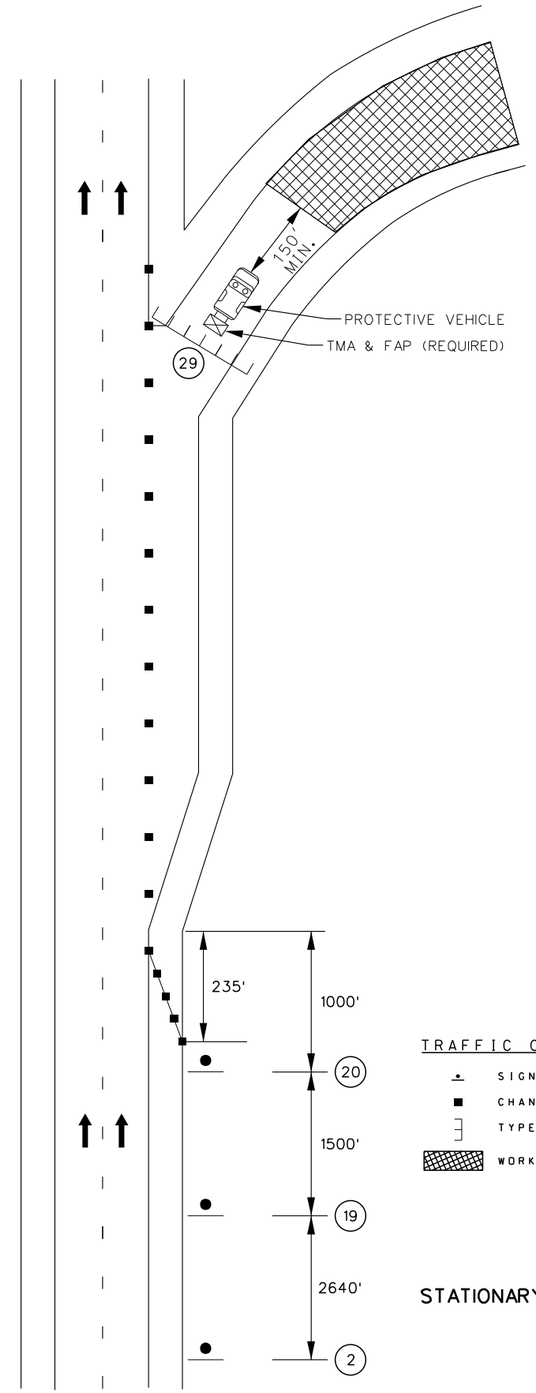
GEORGE BUTLER
ASSOCIATES, INC.
PRO. ENGINEER 000133
ARCHITECT 000212
PRO. LAND SURVEYOR 000059

TRAFFIC CONTROL SHEET

MO ROUTE 100
TYPICAL APPLICATION

KENDRA MILLER
PROFESSIONAL ENGINEER
PE-2014041301

REV.



NOT TO SCALE

WO20-1

(2)

WO20-3

(19)

WO20-3

(20)

R11-2

(29)

TRAFFIC CONTROL LEGEND

- SIGN (SINGLE SIDED)
- CHANNELIZER (TRIM-LINE)
- TYPE III MOVABLE BARRICADE
- WORK AREA

NOTES:

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

TEMPORARY PAVEMENT MARKING OPTIONAL FOR SHORT TERM OPERATIONS.

REDUCE CHANNELIZER SPACING TO NO MORE THAN 30' AT THE BEGINNING OF THE DECELERATION LANE TO PAST THE GORE POINT.

OPERATE THE FLASHING ARROW PANEL (FAP) IN THE FOUR CORNER OR ALTERNATING DIAMOND CAUTION MODE.

SPEED	SIGN SPACING (ft.)		TAPER LENGTH (ft.)		OPTIONAL	CHANNELIZER SPACING (ft.)	
PERM. POSTED (MPH)	UN -DIVIDED (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.							

STATIONARY WORK ON FULLY CLOSED RAMP

STATE OF MISSOURI
KENDRA MILLER
NUMBER PE-2014041301
PROFESSIONAL ENGINEER

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

DATE PREPARED
3/28/2025

MO ROUTE	STATE
100	MO
DISTRICT	SHEET NO.
SL	11

COUNTY
ST. LOUIS

JOB NO.
J6P3274B

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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CHESTERFIELD, MO 63017
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GBAteam.com

GEORGE BUTLER ASSOCIATES, INC.
PRO. ENGINEER 000133
ARCHITECT 000212
PRO. LAND SURVEYOR 000059

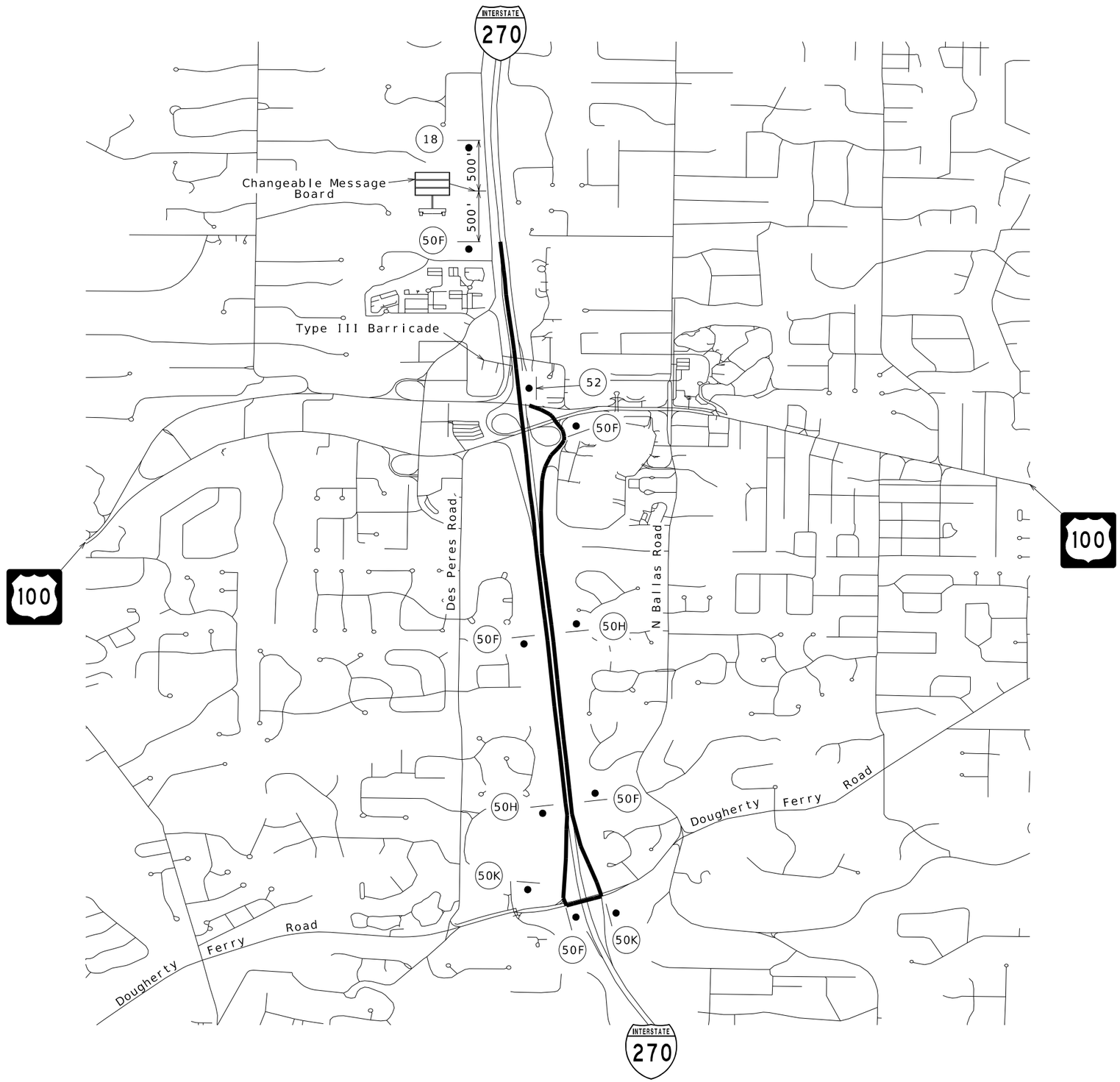
SHEET 6 OF 6

TRAFFIC CONTROL SHEET

MO ROUTE 100
TYPICAL APPLICATION

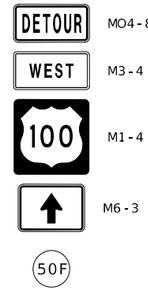
KENDRA MILLER
PROFESSIONAL ENGINEER
PE-2014041301

REV.



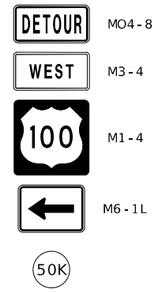
WO20-2

18



50F

50H



50K

MO4-8a

52

TYPE III
MOVEABLE BARRICADE

CHANGEABLE
MESSAGE BOARD

GENERAL NOTE

Changeable Message Board
shall display: Ramp Closure Ahead

TRAFFIC CONTROL SHEET

DETOUR SHEET
MO ROUTE 100

STATE OF MISSOURI
KENDRA MILLER
NUMBER PE-2014041301
PROFESSIONAL ENGINEER

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

DATE PREPARED
3/28/2025

MO ROUTE	STATE
100	MO
DISTRICT	SHEET NO.
SL	12

COUNTY
ST. LOUIS

JOB NO.
J6P3274B

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)

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16305 SWINGLEY RIDGE RD
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GEORGE BUTLER
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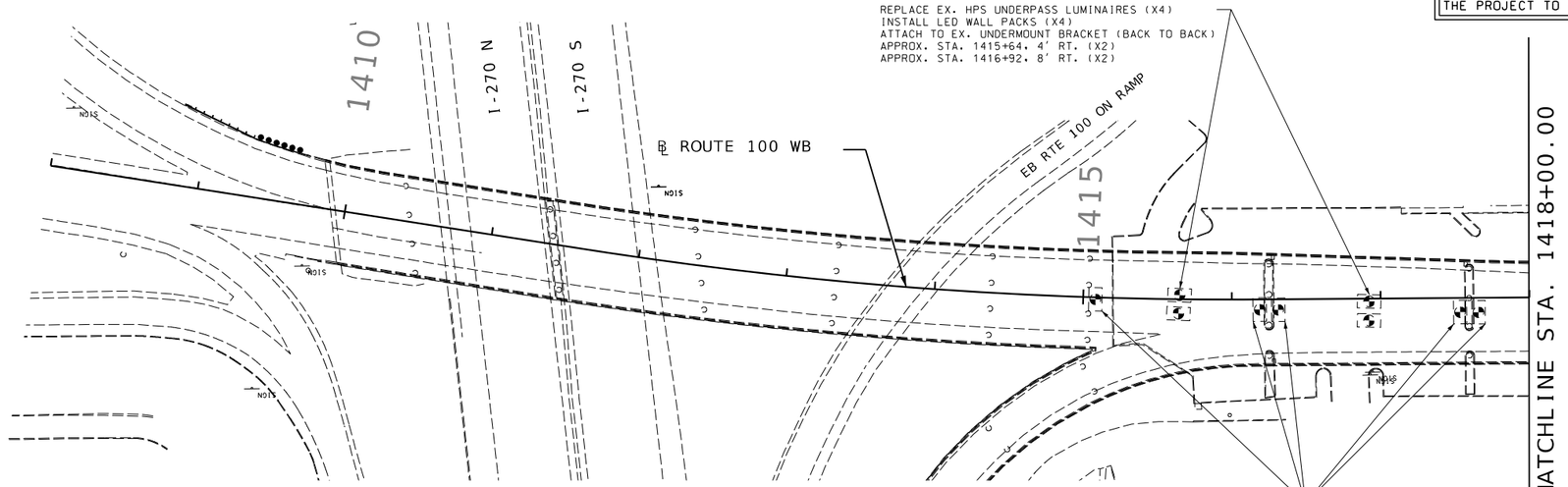
PRO. ENGINEER 000133
ARCHITECT 000212
PRO. LAND SURVEYOR 000059

KENDRA MILLER
PROFESSIONAL
ENGINEER
PE-2014041301

REV.

SCALE

0 50 100 150



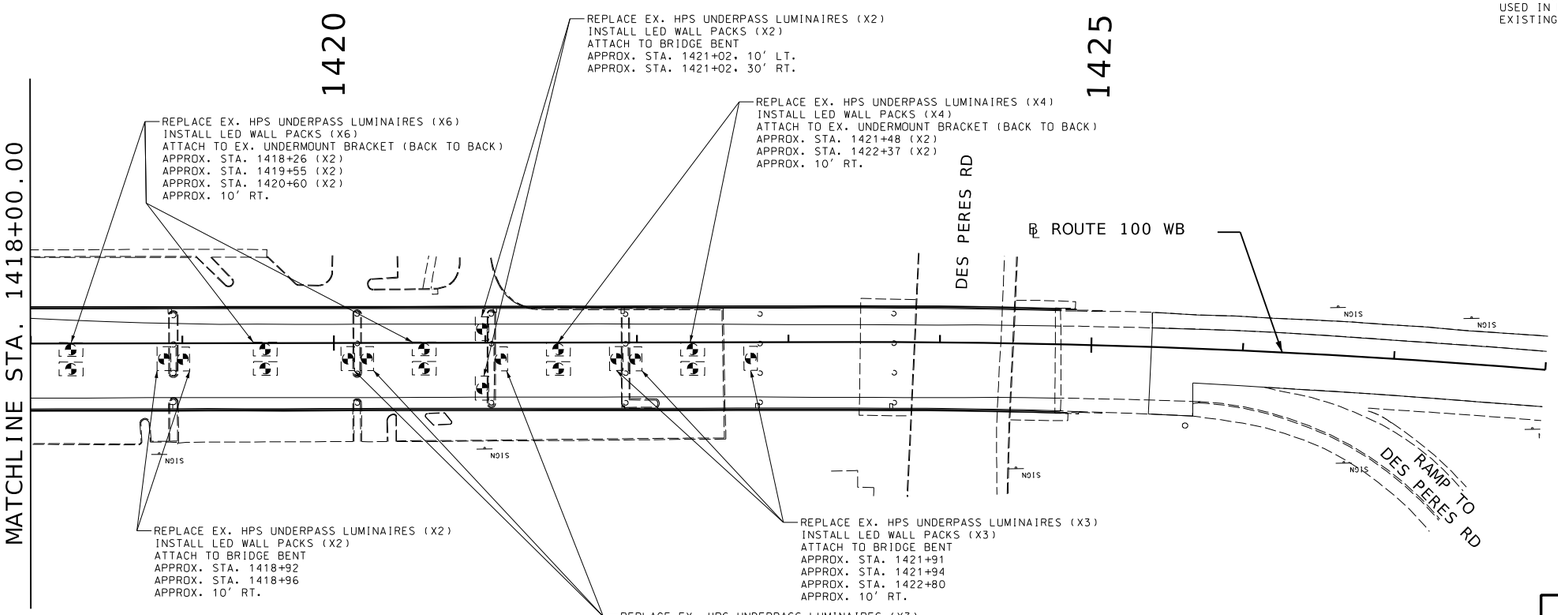
REPLACE EX. HPS UNDERPASS LUMINAIRES (X4)
INSTALL LED WALL PACKS (X4)
ATTACH TO EX. UNDERMOUNT BRACKET (BACK TO BACK)
APPROX. STA. 1415+64. 4' RT. (X2)
APPROX. STA. 1416+92. 8' RT. (X2)

REPLACE EX. HPS UNDERPASS LUMINAIRES (X5)
INSTALL LED WALL PACKS (X5)
ATTACH TO BRIDGE BENT
APPROX. STA. 1415+04. 1' RT.
APPROX. STA. 1416+23. 7' RT.
APPROX. STA. 1416+27. 7' RT.
APPROX. STA. 1417+58. 10' RT.
APPROX. STA. 1417+61. 10' RT.

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.

SCALE

0 50 100 150



REPLACE EX. HPS UNDERPASS LUMINAIRES (X6)
INSTALL LED WALL PACKS (X6)
ATTACH TO EX. UNDERMOUNT BRACKET (BACK TO BACK)
APPROX. STA. 1418+26 (X2)
APPROX. STA. 1419+55 (X2)
APPROX. STA. 1420+60 (X2)
APPROX. 10' RT.

REPLACE EX. HPS UNDERPASS LUMINAIRES (X2)
INSTALL LED WALL PACKS (X2)
ATTACH TO BRIDGE BENT
APPROX. STA. 1421+02. 10' LT.
APPROX. STA. 1421+02. 30' RT.

REPLACE EX. HPS UNDERPASS LUMINAIRES (X4)
INSTALL LED WALL PACKS (X4)
ATTACH TO EX. UNDERMOUNT BRACKET (BACK TO BACK)
APPROX. STA. 1421+48 (X2)
APPROX. STA. 1422+37 (X2)
APPROX. 10' RT.

REPLACE EX. HPS UNDERPASS LUMINAIRES (X2)
INSTALL LED WALL PACKS (X2)
ATTACH TO BRIDGE BENT
APPROX. STA. 1418+92
APPROX. STA. 1418+96
APPROX. 10' RT.

REPLACE EX. HPS UNDERPASS LUMINAIRES (X3)
INSTALL LED WALL PACKS (X3)
ATTACH TO BRIDGE BENT
APPROX. STA. 1421+91
APPROX. STA. 1421+94
APPROX. STA. 1422+80
APPROX. 10' RT.

REPLACE EX. HPS UNDERPASS LUMINAIRES (X3)
INSTALL LED WALL PACKS (X3)
ATTACH TO BRIDGE BENT
APPROX. STA. 1420+14
APPROX. STA. 1420+17
APPROX. STA. 1421+06
APPROX. 10' RT.

NOTE:
EXISTING CONDUIT AND WIRING SYSTEM SHALL BE USED IN PLACE. LED WALL PACKS TO BE WIRED TO EXISTING CABLING.

SHEET 1 OF 1

LIGHTING SHEET

MO ROUTE 100
MANCHESTER ROAD

STATE OF MISSOURI
KENDRA MILLER
NUMBER PE-2014041301
PROFESSIONAL ENGINEER

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

DATE PREPARED: 3/28/2025
MO ROUTE: 100
STATE: MO
DISTRICT: SL
SHEET NO.: 13
COUNTY: ST. LOUIS
JOB NO.: J6P3274B
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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CHESTERFIELD, MO 63017
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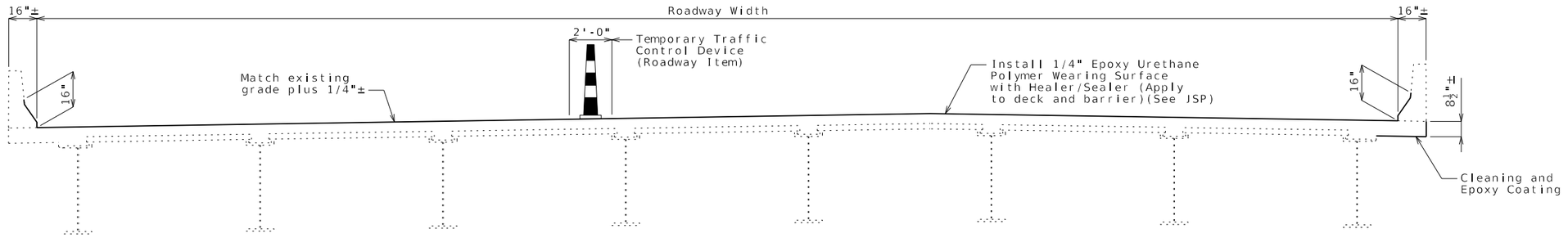
GEORGE BUTLER ASSOCIATES, INC.
PRO. ENGINEER 000133
ARCHITECT 000212
PRO. LAND SURVEYOR 000059

KENDRA MILLER
PROFESSIONAL ENGINEER
PE-2014041301

SEC/SUR 34 TWP 45N RGE 5E

U.I.P. AND REHABILITATE EXISTING (52.5'-2 @ 98.4'-91.9'-105-59')(6.6'-121.4'-2 @ 134.5'-121.4'-6.6')(82'-3 @ 88.6'-108.3')(4 @ 70.5')
CONTINUOUS COMPOSITE STEEL PLATE GIRDER SPANS (SKEW: VARIES)



SECTION THRU EXISTING DECK

(Unit 1 shown, other units vary in the number and spacing of girders and roadway width).

GENERAL NOTES:

Design Specifications:

2002 AASHTO LFD (17th Ed.) Standard Specifications
Bridge Deck Rating = 6

Design Loading:

HS20-44 Modified plus 15 psf Future Wearing Surface

Miscellaneous:

See Job Special Provisions for Construction Requirements.

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.

Bars bonded in old concrete not removed shall be cleanly stripped and embedded into new concrete where possible. If length is available, old bars shall extend into new concrete at least 40 diameters for smooth bars and 30 diameters for deformed bars, unless otherwise noted.

The contractor shall exercise care to ensure spillage over joint edges is prevented and that a neat line is obtained along any terminating edge of the wearing surface.

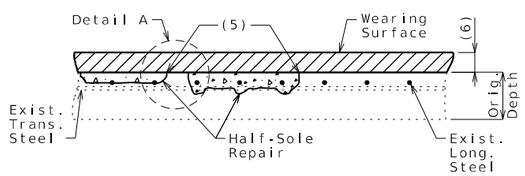
Traffic Handling:

Traffic to be maintained on structure during construction. See roadway plans for traffic control.

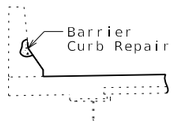
Open Cell Foam Joint:

Open cell foam joint seal size (width and depth) shall be determined by the manufacturer. Manufacturer recommended seal size shall meet the movement and installation gap requirements and skew effect. The depth of the open cell foam joint seal shall not be less than the width of the joint.

The open cell foam joint seal shall be installed according to the manufacturer's recommendations.



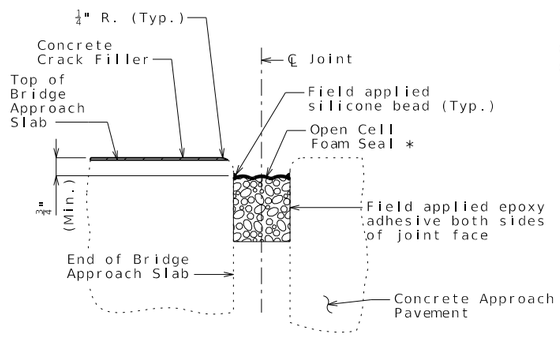
HALF-SOLE REPAIR ON BRIDGE DECK AND BRIDGE APPRAOCH SLAB



BARRIER CURB REPAIR

Barrier Curb Repair shall use shotcrete repair method. See Job Special Provisions.

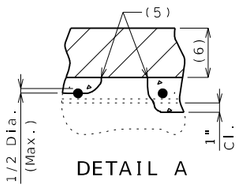
Payment for barrier repair including all material, equipment, labor and any other incidental work necessary to complete this item, will be considered completely covered by the contract unit price for Barrier Curb Repair.



SECTION THRU JOINT AT END OF BRIDGE APPROACH SLAB AT BENT NO. 16

* Manufacturer's recommended size

Extend seal full width of approach slab.



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.

(5) 1" vertical side shall be established outside the deteriorated area.

(6) 1/4" minimum epoxy urethane polymer wearing surface with healer/sealer

Estimated Quantities

	Item		Total
(1)	Temporary Falsework	each	3
	Removal of Existing Expansion Joint & Adjacent Concrete	linear foot	30
	Removal of Existing Expansion Joint Seal or Sealant	linear foot	66
	Remove and Replace Barrier Curb	linear food	8
(1)(2)	Epoxy Urethane Polymer Wearing Surface with Healer/Sealer	sq. yard	12,370
	Class B-2 Concrete	cu. yard	5
	Substructure Repair (Formed)	sq. foot	75
	Substructure Repair (Unformed)	sq. foot	520
(3)	Half-Sole Repair	sq. foot	180
	Cleaning and Epoxy Coating	sq. foot	480
(4)	Concrete Crack Filler	sq. yard	487
	Barrier Curb Repair	linear foot	10
	Reinforcing Steel (Epoxy Coated)	pound	430
	Protective Coating - Concrete Bents and Piers	lump sum	1
(1)	Drainage System Repair	lump sum	1
(1)	Flush Bridge Drainage System	lump sum	1
	Slab Drain Extension (8" x 4")	each	10
	Slab Drain Extension (6" Dia.)	each	5
	Slab Drain Extension (8" Dia.)	each	10
	Strip Seal Expansion Joint System	linear foot	30
	Open Cell Foam Joint Seal	linear foot	66

(1) See Job Special Provisions (Bridge).
(2) Bridge Deck area from fill face to fill face of end bents and 16 inches up roadway face of barriers, excludes joints and approach slabs.
(3) On bridge deck and approach slabs. See details below.
(4) Apply to bridge approach slabs.

ESTIMATED QUANTITIES OF WEARING SURFACE

Unit No.	Bents in Unit	Average Roadway Width ± (feet)	Length of Bridge Deck (feet)	Estimated Quantity of Wearing Surface (Sq. Yds.)
1	1-6	64'-0"	511'-10"	3800
2	7-11	71'-0"	509'-6"	4000
3	12-16	66'-0"	463'-6"	3540
4	17-21	30'-0"	283'-7"	1030

REPAIRS TO BRIDGE: ROUTE 100 WB OVER ROUTE I-270, RAMP 2A & DES PERES RD.

ROUTE 100 FROM ROUTE 61 TO ROUTE 141
ABOUT 2.4 MILES WEST OF ROUTE 61
BEGINNING STATION 1409+89.81± (Match Existing)

Detailed Feb 2024
Checked Feb 2024

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

STATE OF MISSOURI
RYAN G. HAGERTY
NUMBER PE-2016034015
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED, AND DATED ELECTRONICALLY

DATE PREPARED 2/5/2025
ROUTE 100 | STATE MO
DISTRICT BR | SHEET NO. 1
COUNTY ST. LOUIS
JOB NO. J6P3274B
CONTRACT ID.
PROJECT NO.
BRIDGE NO. A56822

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)

GBA
16305 SWINGLEY RIDGE RD
ST. 300
CHESTERFIELD, MO 63017
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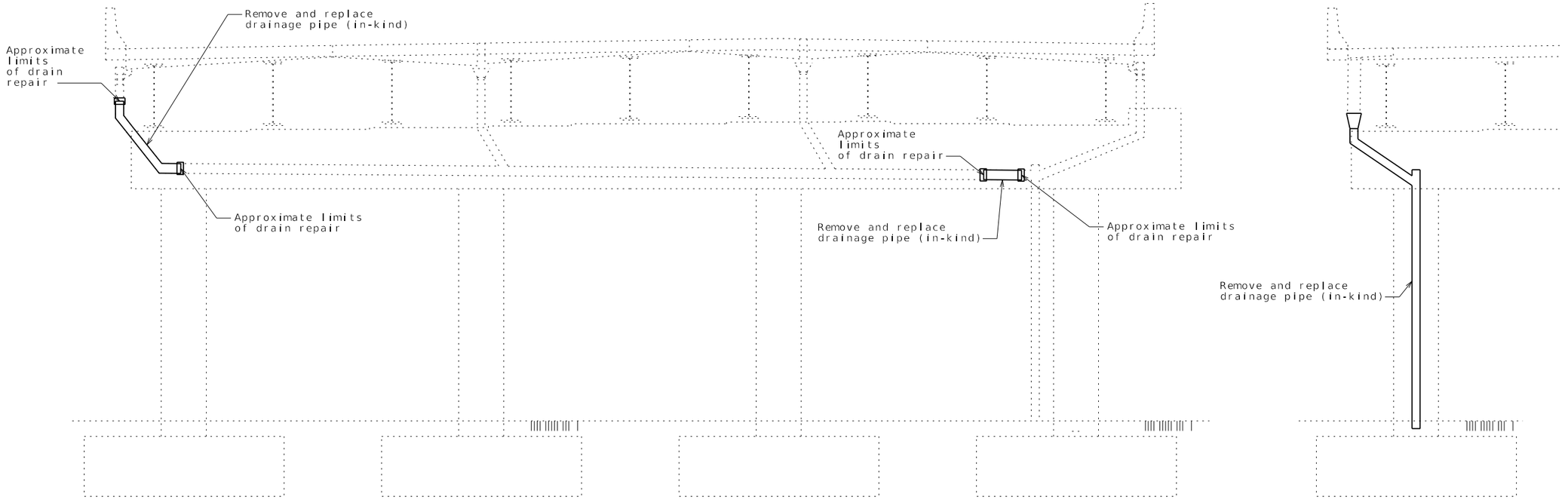
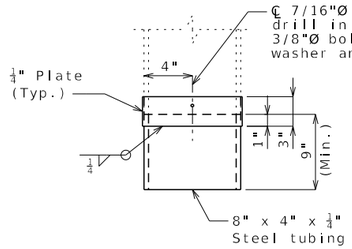
GEORGE BUTLER ASSOCIATES, INC.
PRO. ENGINEER 000133
ARCHITECT 000212
PRO. LAND SURVEYOR 000059

RYAN G. HAGERTY
PROFESIONAL ENGINEER
PE-2016034015





DETAIL A

ELEVATION SHOWING DRAIN AT BENT NO. 11

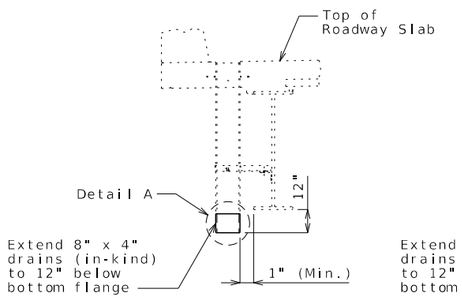
(6" Dia. pipe, Typ.)

Cost of furnishing and installing slab drain repairs will be considered completely covered by the contract unit price for Drainage System Repair (see Special Provisions).

PART ELEVATION NEAR DRAIN AT BENT NO. 12

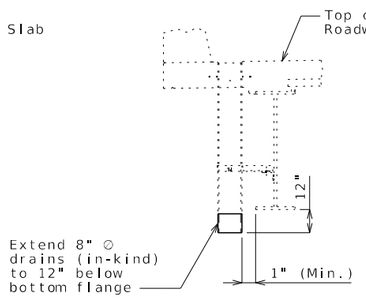
(6" Dia. pipe, Typ.)

Cost of furnishing and installing slab drain repairs will be considered completely covered by the contract unit price for Drainage System Repair (see Special Provisions).



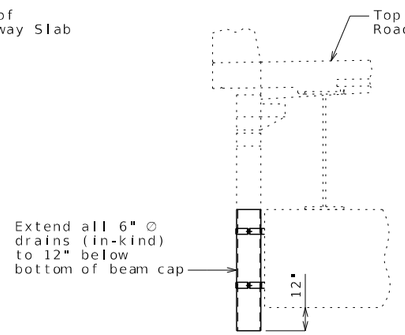
PART SECTION AT ALL DRAINS EXCEPT NEAR BENTS NO. 7, 8, 9, 10, 12, 13, 14, 15 & 21

Cost of furnishing and installing slab drain extensions will be considered completely covered by the contract unit price for Slab Drain Extension (8"x4").



PART SECTION AT DRAINS NEAR BENTS NO. 8, 9, 10, 12, 13, 14 & 15

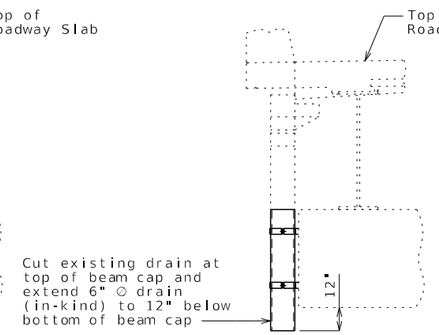
Cost of furnishing and installing slab drain extensions will be considered completely covered by the contract unit price for Slab Drain Extension (8" Dia.).



PART SECTION AT DRAINS NEAR BENT NO. 7

(Ext. drain shown, Int. drain similar)

Cost of furnishing and installing slab drain extensions will be considered completely covered by the contract unit price for Slab Drain Extension (6" Dia.).



PART SECTION AT DRAINS NEAR BENT NO. 21

Cost of furnishing and installing slab drain extensions will be considered completely covered by the contract unit price for Slab Drain Extension (6" Dia.).

Notes:

All costs to install drains or drainage system shall be covered by the contract unit price for each bid item.

Outside dimensions of existing drains are 8"x4"±, 8"∅±, or 6"∅±.

The contractor shall verify the number and size of the existing drains and conduit before ordering materials.

All bolts, hardened washers, lock washers, and nuts shall be galvanized in accordance with ASTM A153.

Shop drawings will not be required for the slab drain extensions or the drainage system repair.

Flush entire existing bridge drainage system including all drains and expansion devices in accordance with Job Special Provisions. Cost of flushing bridge drainage system shall be completely covered by the contract unit price for Flush Bridge Drainage System.

Notes for 8"x4" Slab Drain Extensions:

Slab drain extensions may be fabricated of either 1/4" welded sheets of ASTM A709 Grade 36 steel or from 1/4" structural steel tubing ASTM A500 or A501.

The drain extensions shall be galvanized in accordance with ASTM A123.

Notes for 6"∅ and 8"∅ Slab Drain Extensions:

Reinforced fiberglass pipe and fittings shall be a Reinforced Thermosetting Resin Pipe (RTRP) System in accordance with the requirements of ASTM D 2996. The RTRP system shall have a minimum short time rupture strength hoop tensile stress of 30,000 psi (207 MPa). The RTRP system shall be pigmented resin throughout the wall. The color of the RTRP system shall be matched to the existing system components. The RTRP system shall not be coated with paint, gel-coat or any other exterior coating.

BRIDGE DRAINAGE SYSTEM REPAIRS

Detailed Feb 2024
Checked Feb 2024

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

STATE OF MISSOURI
RYAN G. HAGERTY
NUMBER PE-2016034015
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED, AND DATED ELECTRONICALLY

DATE PREPARED: 2/3/2025

ROUTE	STATE
100	MO
DISTRICT	SHEET NO.
BR	2

COUNTY: ST. LOUIS
JOB NO.: J6P3274B
CONTRACT ID.:
PROJECT NO.:
BRIDGE NO.: A56822

DATE	DESCRIPTION

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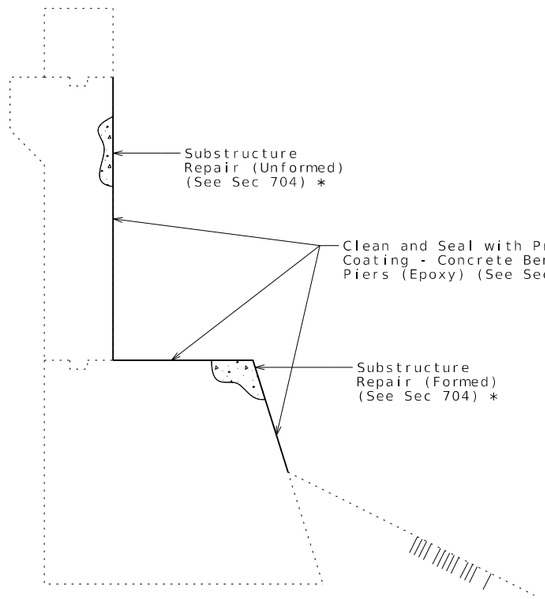
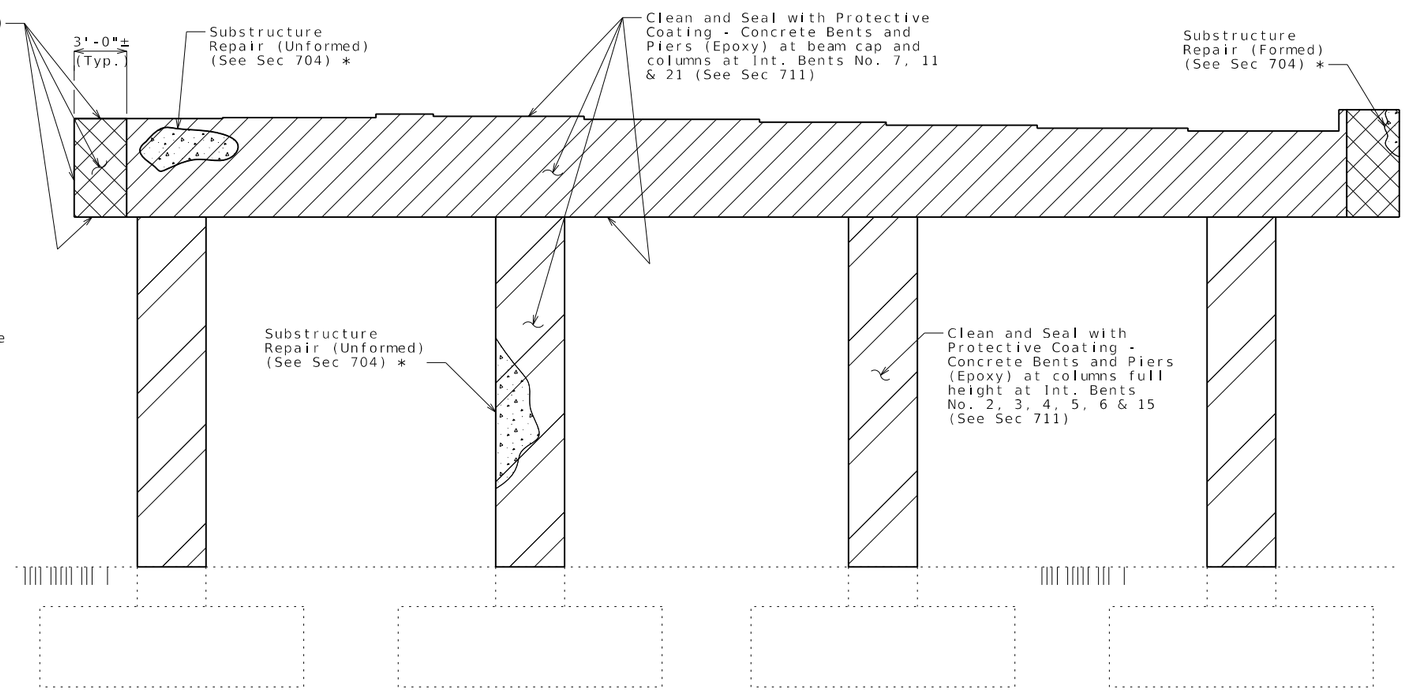


TYPICAL SECTION THRU END
BENTS NO. 1, 16 & 17
SHOWING PROTECTIVE COATING



TYPICAL ELEVATION OF INT.
BENT SHOWING SUBSTRUCTURE
REPAIR AND PROTECTIVE COATING

ESTIMATED SUBSTRUCTURE PROTECTIVE COATING QUANTITIES

Protective Coating - Concrete Bents and Piers (Epoxy)

810	sq. ft. @ End Bent No. 1
870	sq. ft. @ Int. Bent No. 2
740	sq. ft. @ Int. Bent No. 3
780	sq. ft. @ Int. Bent No. 4
830	sq. ft. @ Int. Bent No. 5
1090	sq. ft. @ Int. Bent No. 6
2030	sq. ft. @ Int. Bent No. 7
130	sq. ft. @ Int. Bent No. 8
100	sq. ft. @ Int. Bent No. 9
100	sq. ft. @ Int. Bent No. 10
1230	sq. ft. @ Int. Bent No. 11
80	sq. ft. @ Int. Bent No. 12
80	sq. ft. @ Int. Bent No. 13
80	sq. ft. @ Int. Bent No. 14
570	sq. ft. @ Int. Bent No. 15
810	sq. ft. @ End Bent No. 16
380	sq. ft. @ End Bent No. 17
80	sq. ft. @ Int. Bent No. 18
80	sq. ft. @ Int. Bent No. 19
80	sq. ft. @ Int. Bent No. 20
980	sq. ft. @ Int. Bent No. 21

Substructure repair quantities shall be confirmed with the Engineer prior to ordering materials and beginning work.

* Shotcrete required for all unformed repairs.

SUBSRUCTURE REPAIR

Notes:

The contractor and engineer will visually inspect and fully sound the existing bents and identify all unsound concrete. The contractor shall remove all identified unsound concrete and perform repairs in accordance with Sec 704.

It may be necessary to raise girders when performing substructure repairs adjacent to and under the bearings. See special provisions for Temporary Falsework.

Detailed Feb 2024
Checked Feb 2024

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STATE OF MISSOURI
RYAN G. HAGERTY
NUMBER PE-2016034015
PROFESSIONAL ENGINEER

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DATE PREPARED: 1/28/2025

ROUTE	STATE
100	MO
DISTRICT	SHEET NO.
BR	3

COUNTY: ST. LOUIS
JOB NO.: J6P3274B
CONTRACT ID.:
PROJECT NO.:
BRIDGE NO.: A56822

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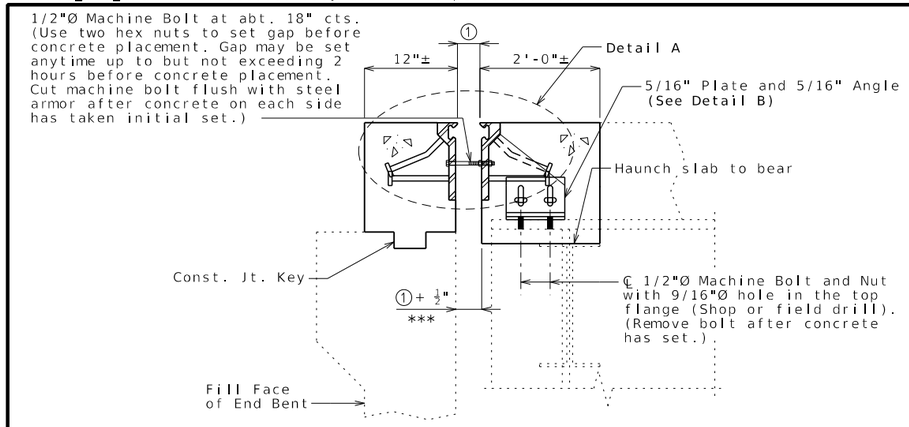
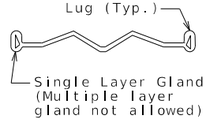
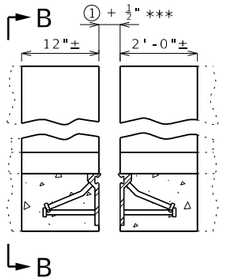


SECTION A-A

Strip seal gland not shown for clarity.

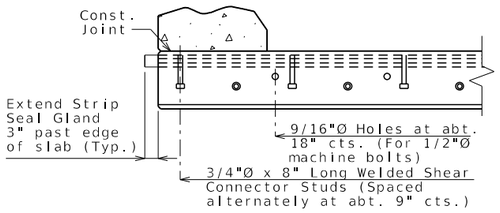


DETAIL OF GLAND

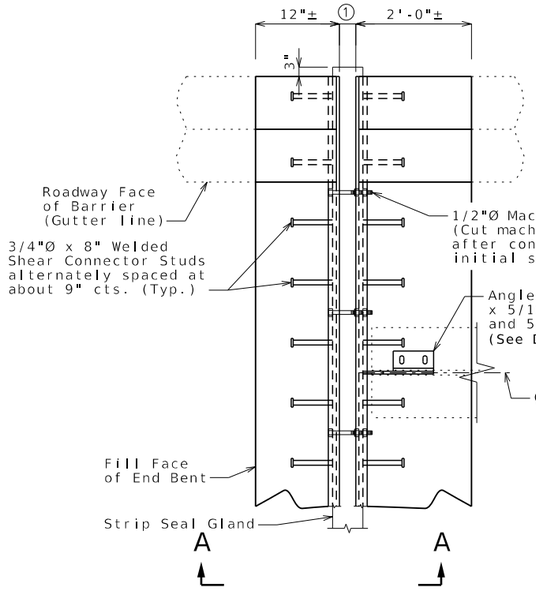


PART ELEVATION OF BARRIER

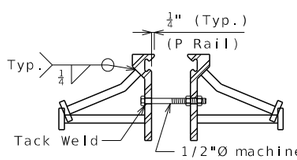
Strip seal gland not shown for clarity.



PART SECTION B-B

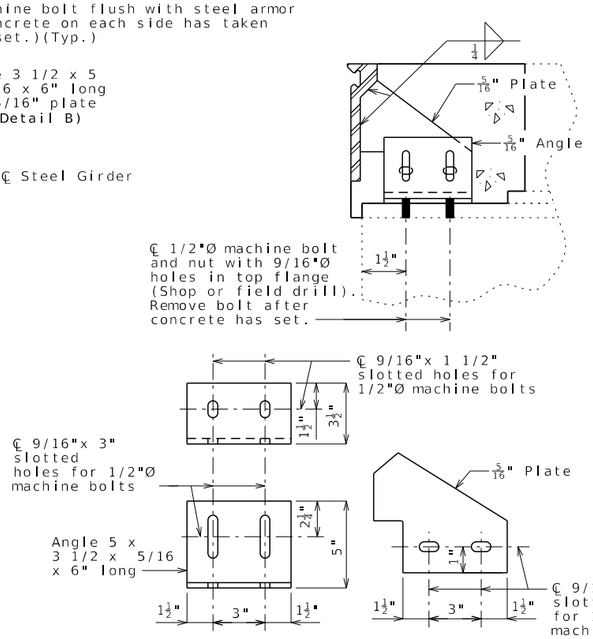


PART PLAN



DETAIL A

(P Rail shown, R Rail similar)



DETAIL B

GENERAL NOTES:

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

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

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

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

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

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

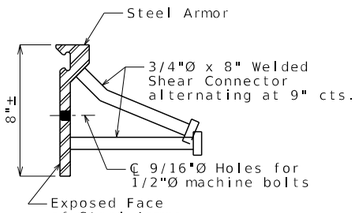
② The installation temperature shall be taken as the actual air temperature averaged over the 24-hour period immediately preceding installation.

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

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

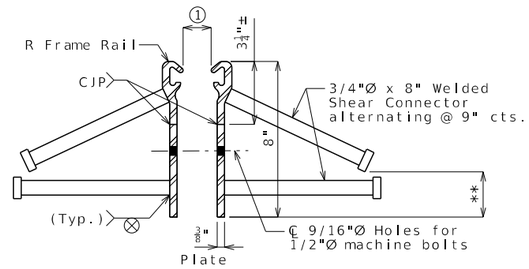
The terms P and R rail are used for identification only, and are not endorsements for any particular manufacturer.

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



DETAIL OF JOINT ARMOR

(P Rail)



** Bend stud in shop if necessary to maintain 1" min. from bottom of vertical plate.

OPTIONAL R RAIL DETAIL

Table of Allowed Transverse Strip Seal Expansion Joint System								
Manufacturer	Strip Seal System (Designated Name)	Movement Parallel to RDWY	① Normal to Joint at RDWY Surface @ Air/Surface Temperature ②					③
			@ 40°F	@ 50°F	@ 60°F	@ 70°F	@ 80°F	@ 90°F	
D S Brown	Strip seal L2-500	3"	3⅛"	2 15/16"	2¾"	2 9/16"	2⅜"	2⅛"	□

RYAN G. HAGERTY
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PROFESSIONAL ENGINEER
STATE OF MISSOURI
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DATE PREPARED 1/28/2025

ROUTE 100 | STATE MO

DISTRICT BR | SHEET NO. 4

COUNTY ST. LOUIS

JOB NO. J6P3274B

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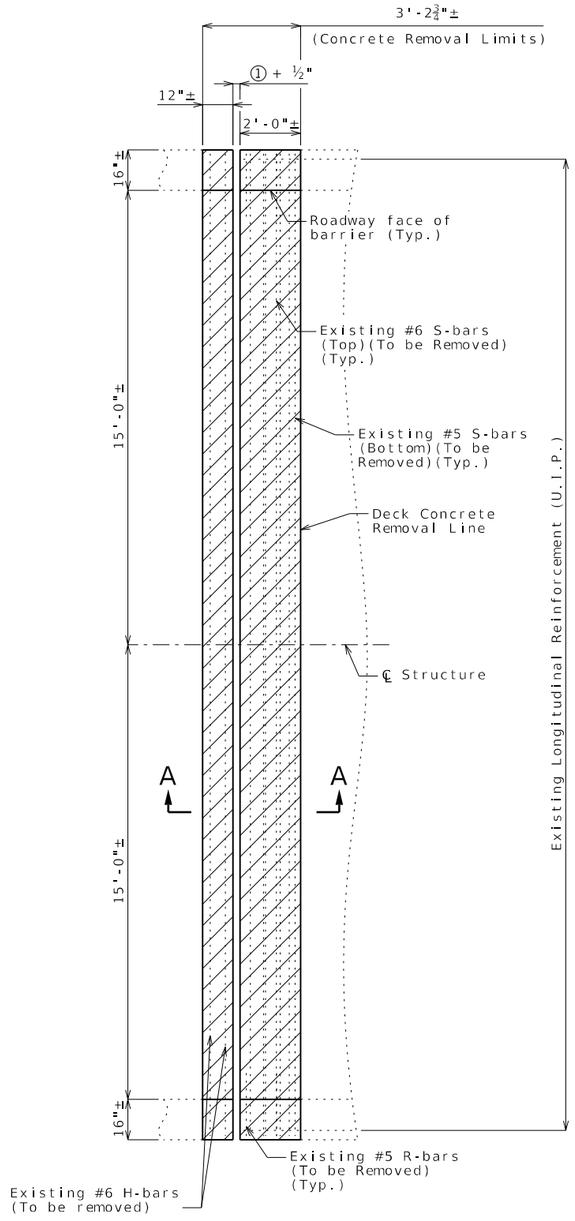
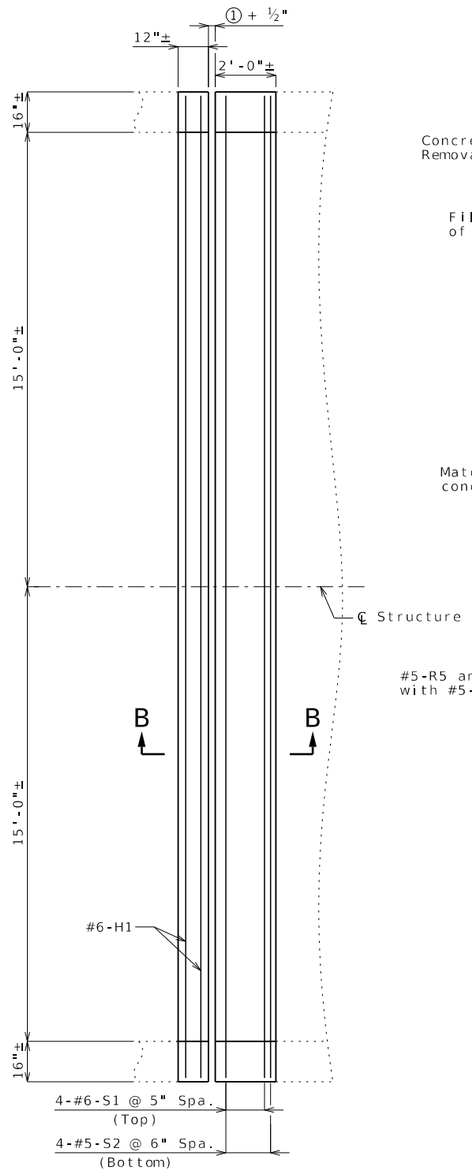
STRIP SEAL EXPANSION JOINT SYSTEM AT END BENT NO. 17

Detailed Feb 2024
Checked Feb 2024

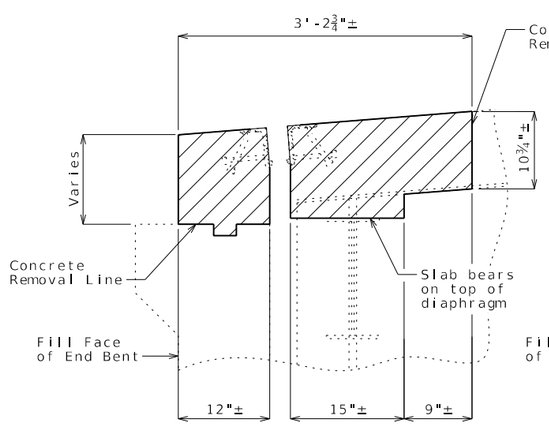
Note: This drawing is not to scale. Follow dimensions.



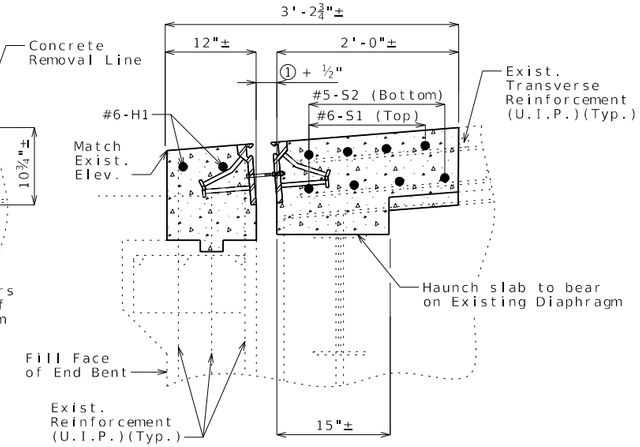
PART PLAN OF SLAB AT
END BENT NO. 17 SHOWING
LIMITS OF CONCRETE REMOVAL



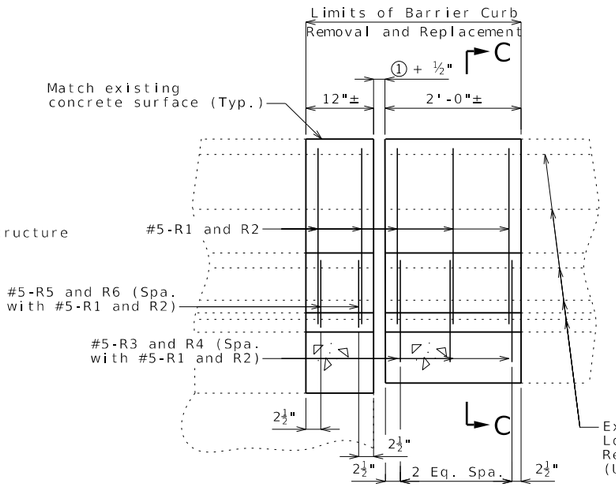
PART PLAN OF SLAB AT
END BENT NO. 17 SHOWING
NEW CONCRETE AND REINFORCEMENT



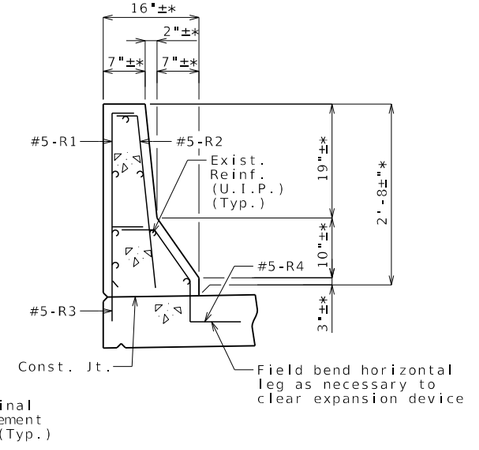
SECTION A-A



SECTION B-B



PART ELEVATION OF LEFT SAFETY
BARRIER CURB AT END BENT NO. 17



SECTION C-C

* Match existing

(Wearing surface not shown for clarity.)

(Right barrier curb similar)
(Expansion device not shown for clarity)

Notes:

For details of strip seal expansion joint, see Sheet No. 4.

Concrete for slab replacement shall be Class B-2.

Payment for removal of slab concrete will be considered completely covered by the contract unit price for Removal of Existing Expansion Joints and Adjacent Concrete.

Payment for slab concrete, complete in place, for expansion joint replacement will be considered completely covered by the contract unit price for Class B-2 Concrete.

Payment for furnishing and installing slab reinforcement will be considered completely covered by the contract unit price for Reinforcing Steel (Epoxy Coated).

Concrete for barrier curb replacement shall be Class B-1.

Existing stirrups in barrier curb not embedded in concrete shall be removed within limits of barrier curb removal.

Top of barrier shall be built parallel to grade with barrier joints normal to grade. All exposed edges of new barrier curb shall match existing barrier curb.

Payment for curb removal and all new concrete and reinforcement for barrier curb, complete, in place, will be considered completely covered by the contract unit price for Remove and Replace Barrier Curb.

DETAILS OF SLAB AND BACKWALL REPLACEMENT AT END BENT NO. 17

Detailed Feb 2024
Checked Feb 2024

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

STATE OF MISSOURI
RYAN G. HAGERTY
NUMBER PE-2016034015
PROFESSIONAL ENGINEER

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1/28/2025

ROUTE	STATE
100	MO
DISTRICT	SHEET NO.
BR	5

COUNTY
ST. LOUIS

JOB NO.
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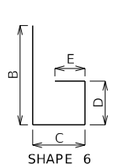
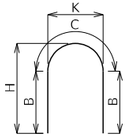
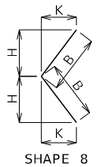


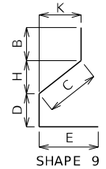
SHAPE 6
or 6S



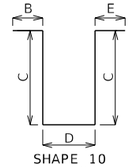
SHAPE 7



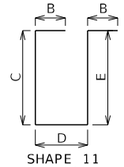
SHAPE 8
or 8S



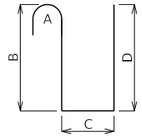
SHAPE 9
or 9S



SHAPE 10
or 10S



SHAPE 11
or 11S



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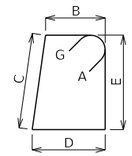

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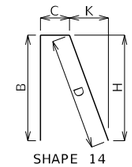

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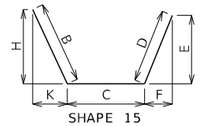

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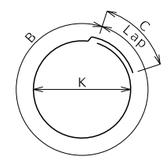

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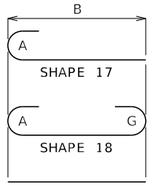
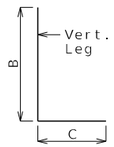


SHAPE 17
SHAPE 18
SHAPE 20



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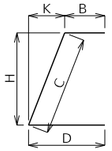

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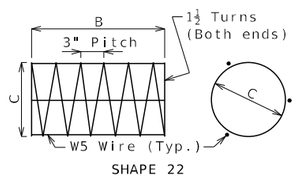

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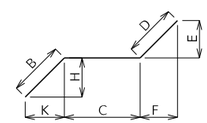

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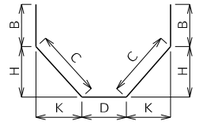

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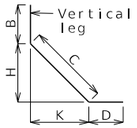

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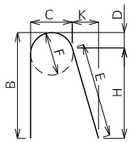
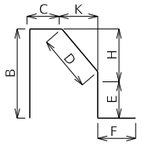


SHAPE 26



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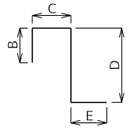

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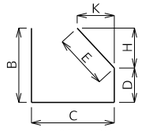
or 28S



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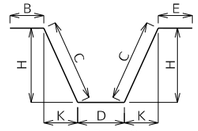

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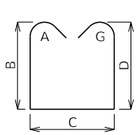

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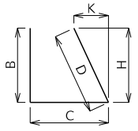

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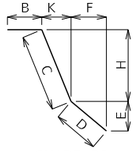

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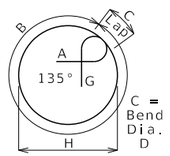

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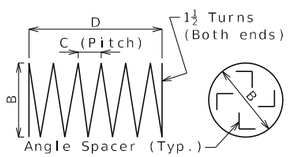
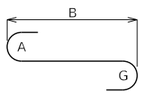


SHAPE 35 (1)

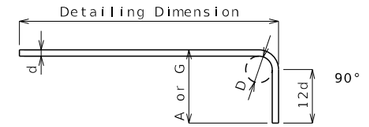


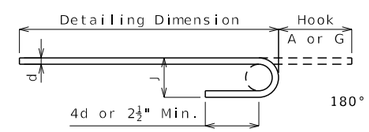
SHAPE 36

Finished Bend Diameters D and Hook Dimensions

Standard Pin Bend Shapes

Size	Case	D	A or G		J
			90°	180°	180°
#4	1	3"	8"	6"	4"
#5	1	3¾"	10"	7"	5"
#6	1	4½"	12"	8¼"	6"
#7	2	5¼"	14"	9¾"	7"
	3	7"	15"	11½"	8¾"
#8	2	6"	16"	11"	8"
	3	8"	17"	13¾"	10"
#9	1	9½"	19½"	15½"	11¾"
#10	1	10¾"	22"	17½"	13¼"
#11	1	12"	24½"	19½"	14⅞"
#14	1	18¾"	31¼"	27½"	21⅝"
#18	1	24"	41½"	36¼"	28½"



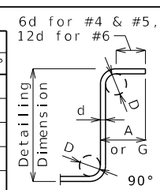


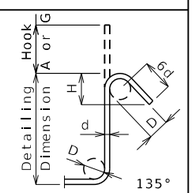
Stirrup Pin Bend Shapes (S)

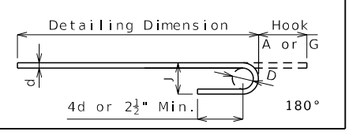
Size	Case	D	A or G			H	J
			90°	135°	180°	135°	180°
#4	2	2"	4½"	4½"	5"	2⅝"	3"
	3	3"	5"	5¼"	6"	3"	4"
#5	2	2½"	5¾"	5¾"	5¾"	3⅝"	3¾"
	3	3¾"	6¼"	6½"	7"	3⅞"	5"
#6	1	4½"	12"	7¾"	8¼"	4⅝"	6"

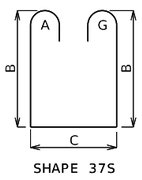
Applicable for all grades of steel.

Case 1 applies to all reinforcement. Case 2 applies to all reinforcement except for galvanized bars. Case 3 applies to galvanized bars only.

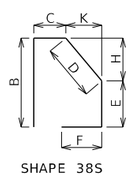








SHAPE 37S



SHAPE 38S

BENDING DIAGRAMS

All dimensions are out to out.

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

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

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

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

Reinforcing Steel Totals (Pounds)

		Substructure		Superstructure				Entire Bridge	
				Slab			Slip		
	Size	Plain	Epoxy	Plain	Epoxy	Barrier	Form	Plain	Epoxy
By Size	W5	0	0	0	0	0	0	0	0
	4	0	0	0	0	0	0	0	0
	5	0	0	0	135	105	0	0	240
	6	0	97	0	195	0	0	0	292
	7	0	0	0	0	0	0	0	0
	8	0	0	0	0	0	0	0	0
	9	0	0	0	0	0	0	0	0
	10	0	0	0	0	0	0	0	0
	11	0	0	0	0	0	0	0	0
	14	0	0	0	0	0	0	0	0
	18	0	0	0	0	0	0	0	0
By Type		0	97	0	330	105	0	0	532

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

BENDING DIAGRAMS AND REINFORCING STEEL TOTALS

Detailed Feb 2024
Checked Feb 2024

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

STATE OF MISSOURI
RYAN G. HAGERTY
NUMBER PE-2016034015
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED, AND DATED ELECTRONICALLY

DATE PREPARED 1/28/2025

ROUTE	STATE
100	MO
DISTRICT	SHEET NO.
BR	6

COUNTY: ST. LOUIS
JOB NO.: J6P3274B
CONTRACT ID.:
PROJECT NO.:
BRIDGE NO.: A56822

DATE	DESCRIPTION

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

GBA
16305 SWINGLEY RIDGE RD
ST. 300
CHESTERFIELD, MO 63017
314.231.0100
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GEORGE BUTLER ASSOCIATES, INC.
PRO. ENGINEER 000133
ARCHITECT 000212
PRO. LAND SURVEYOR 000059

RYAN G. HAGERTY
PROFESIONAL ENGINEER
PE-2016034015

Bill of Reinforcing Steel

No. Req.	Size/ Mark	Location	Codes C	SH	V	Dimensions B ft in.	C ft in.	D ft in.	E ft in.	F ft in.	H ft in.	K ft in.	Nom. Length ft in.	Actual Length ft in.	Weight lb
		END BENT NO. 17													
2	6 H1	BACKWALL	E	20		32 5.00							32 5	32 5	97
4	6 S1	SLAB	E	20		32 5.00							32 5	32 5	195
4	5 S2	SLAB	E	20		32 5.00							32 5	32 5	135
10	5 R1	BARRIER	E	19S		2 5.00	4.00						2 9	2 8	28
10	5 R2	BARRIER	E	15S		2 5.00	4.00						2 9	2 8	28
6	5 R3	BARRIER	E	19S		17.00	6.00						1 11	1 10	11
6	5 R4	BARRIER	E	27S			6.00	10.50	6.75	12.00	8.50	6.00	2 11	2 9	17
4	5 R5	BARRIER	E	19S		18.50	6.00						2 1	1 11	8
4	5 R6	BARRIER	E	27S		13.00	9.25	10.50	6.00		6.00	8.50	3 3	3 1	13

Bill of Reinforcing Steel

No. Req.	Size/ Mark	Location	Codes C	SH	V	Dimensions B ft in.	C ft in.	D ft in.	E ft in.	F ft in.	H ft in.	K ft in.	Nom. Length ft in.	Actual Length ft in.	Weight lb

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

For bending diagrams and steel reinforcing totals, see Sheet No. 6.

All bars shall be Grade 60.

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

SH = Required shape, see bending diagrams.

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

Detailed Feb 2024
Checked Feb 2024

BILL OF REINFORCING STEEL

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

STATE OF MISSOURI
RYAN G. HAGERTY
NUMBER PE-2016034015
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED, AND DATED ELECTRONICALLY

DATE PREPARED
1/28/2025

ROUTE 100 | STATE MO
DISTRICT BR | SHEET NO. 7
COUNTY ST. LOUIS
JOB NO. J6P3274B
CONTRACT ID.
PROJECT NO.
BRIDGE NO. A56822

DESCRIPTION | DATE

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105 WEST CAPITOL
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