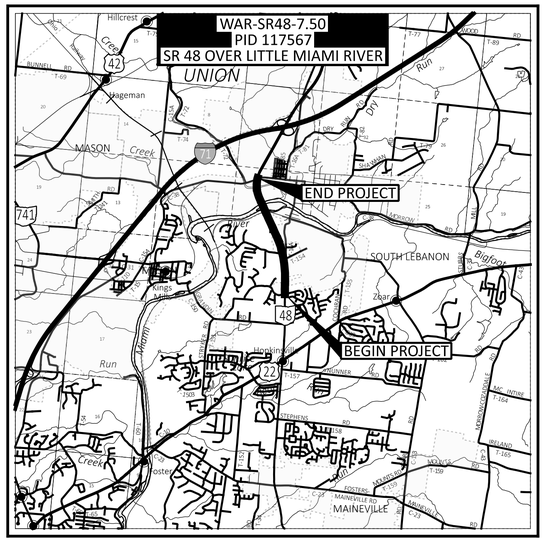

LOCATION MAP

LATITUDE: 39°22'08.31" LONGITUDE: 84°13'30.53"

PORTION TO BE IMPROVED
INTERSTATE HIGHWAY
FEDERAL ROUTES
STATE ROUTES
COUNTY & TOWNSHIP ROADS
OTHER ROADS

DESIGN DESIGNATION

CURRENT ADT (2024)	*19,392*
DESIGN YEAR ADT (2044)	*25,269*
DESIGN HOURLY VOLUME (2044)	*1,228*
DIRECTIONAL DISTRIBUTION	*54%*
TRUCKS (24 HOUR B&C)	*3%*
DESIGN SPEED	*50/55*
LEGAL SPEED	*45/50*

DESIGN FUNCTIONAL CLASSIFICATION:
03 URBAN OTHER PRINCIPAL ARTERIAL

NHS PROJECT — *NO*

DESIGN EXCEPTIONS

ADA DESIGN WAIVERS

UNDERGROUND UTILITIES
Contact Two Working Days Before You Dig
OHIO811.org Before You Dig
OHIO811, 8-1-1, or 1-800-362-2764
(Non members must be called directly)

PLAN PREPARED BY:

STATE OF OHIO
DEPARTMENT OF TRANSPORTATION

WAR-SR48-7.50

CITY OF SOUTH LEBANON
HAMILTON TOWNSHIP
WARREN COUNTY

INDEX OF SHEETS:

FEDERAL PROJECT NUMBER

RAILROAD INVOLVEMENT

N/A

PROJECT DESCRIPTION

EARTH DISTURBED AREAS

PROJECT EARTH DISTURBED AREA:	*ACRES*
ESTIMATED CONTRACTOR EARTH DISTURBED AREA:	*ACRES*
NOTICE OF INTENT EARTH DISTURBED AREA:	*ACRES*

LIMITED ACCESS

THIS IMPROVEMENT IS ESPECIALLY DESIGNED FOR THROUGH TRAFFIC AND HAS BEEN DECLARED A LIMITED ACCESS HIGHWAY OR FREEWAY BY ACTION OF THE DIRECTOR IN ACCORDANCE WITH THE PROVISIONS OF SECTION 5511.02 OF THE OHIO REVISED CODE.

2023 SPECIFICATIONS

THE STANDARD SPECIFICATIONS OF THE STATE OF OHIO, DEPARTMENT OF TRANSPORTATION, INCLUDING SUPPLEMENTAL SPECIFICATIONS LISTED IN THE PLANS, CHANGES LISTED IN THE PROPOSAL, AND THE SUPPLEMENTAL SPECIFICATION 800 VERSION INDICATED ON THE PROPOSAL SHALL GOVERN THIS IMPROVEMENT.

District Deputy Director

Director, Department of Transportation

STANDARD CONSTRUCTION DRAWINGS					*SUPPLEMENTAL SPECIFICATIONS*	*SPECIAL PROVISIONS*

WAR-SR48-7.50

DESIGN AGENCY
Michael Baker INTERNATIONAL

DESIGNER AKA

REVIEWER KMD 04/17/26

PROJECT ID 117567

SHEET P.1 TOTAL P.40

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WAR-SR48-7.50

CURVE DATA
P.I. = STA. 668+30.24
Δ = 00°56'30" RT
Dc = 00°12'00"
R = 28,647.89'
T = 235.42'
L = 470.82'
E = .97'

CURVE DATA
P.I. = STA. 3+89.51
Δ = 56°36'19" LT
Dc = 22°55'06"
R = 250.00'
T = 134.63'
L = 246.99'
E = 33.94'

CURVE DATA
P.I. = STA. 21+37.24
Δ = 29°42'26" RT
Dc = 22°55'06"
R = 250.00'
T = 66.3'
L = 129.62'
E = 8.64'

CURVE DATA
P.I. = STA. 15+67.71
Δ = 104°37'43" LT
Dc = 22°55'06"
R = 250.00'
Ls = 0.00'
Θs = 00°00'00"
LT = 0.00'
ST = 0.00'
Lc = 246.99'
Ts = 1,312.82'
Es = 1,086.41'
Emax =

CURVE DATA
P.I. = STA. 688+32.68
Δ = 25°18'07" LT
Dc = 00°48'00"
R = 7,161.97'
T = 1,607.58'
L = 3,162.74'
E = 178.20'

CURVE DATA
P.I. = STA. 6+57.79
Δ = 48°01'24" RT
Dc = 16°22'13"
R = 350.00'
T = 155.92'
L = 293.36'
E = 33.16'

CURVE DATA
P.I. = STA. 688+32.68
Δ = 25°18'07" LT
Dc = 00°48'00"
R = 7,161.97'
T = 1,607.58'
L = 3,162.74'
E = 178.20'

CURVE DATA
P.I. = STA. 13+15.12
Δ = 10°50'26" RT
Dc = 22°55'06"
R = 250.00'
T = 23.72'
L = 47.3'
E = 1.12'

CURVE DATA
P.I. = STA. 668+30.24
Δ = 00°56'30" RT
Dc = 00°12'00"
R = 28,647.89'
T = 235.42'
L = 470.82'
E = .97'

CURVE DATA
P.I. = STA. 107+32.76
Δ = 02°42'02" LT
Dc = 00°39'00"
R = 8,814.74'
T = 207.76'
L = 415.45'
E = 2.45'

CURVE DATA
P.I. = STA. 43+75.14
Δ = 09°50'26" LT
Dc = 02°30'39"
R = 2,282.00'
T = 196.45'
L = 391.93'
E = 8.44'

CURVE DATA
P.I. = STA. 742+79.64
Δ = 53°24'57" RT
Dc = 02°45'00"
R = 2,083.48'
Ls = 300.00'
Θs = 04°07'30"
LT = 200.05'
ST = 100.05'
x = 299.84'
y = 7.20'
p = 1.80'
C = 299.93'
Lc = 1,642.40'
Ts = 1,199.12'
Es = 250.85'
Emax =

CURVE DATA
P.I. = STA. 139+37.52
Δ = 53°24'57" RT
Dc = 02°36'51"
R = 2,191.74'
T = 1,102.71'
L = 2,043.32'
E = 261.77'

CURVE DATA
P.I. = STA. 113+48.22
Δ = 02°42'02" RT
Dc = 00°39'00"
R = 8,814.74'
T = 207.76'
L = 415.45'
E = 2.45'

CURVE DATA
P.I. = STA. 48+01.36
Δ = 04°39'14" RT
Dc = 04°32'37"
R = 1,261.00'
T = 51.24'
L = 102.43'
E = 1.04'

SPIRAL DATA
P.I. = STA. 732+80.57
Ls = 300.00'
Θs = 04°07'30"
LT = 200.05'
ST = 100.05'
x = 299.84'
y = 7.20'
k = 149.97'
p = 1.80'
C = 299.93'
Start = Sta. 730+80.51
End = Sta. 733+80.51
C.B. = N23°47'18"W

CURVE DATA
P.I. = STA. 742+79.64
Δ = 53°24'57" RT
Dc = 02°45'00"
R = 2,083.48'
Ls = 300.00'
Θs = 04°07'30"
LT = 200.05'
ST = 100.05'
Lc = 1,642.40'
Ts = 1,199.12'
Es = 250.85'
Emax =
T.S. =
S.C. = 733+80.51
C.S. = 750+22.91
S.T. =

SPIRAL DATA
P.I. = STA. 751+22.96
Ls = 300.00'
Θs = 04°07'30"
LT = 200.05'
ST = 100.05'
x = 299.59'
y = 14.39'
k = 149.97'
p = 1.80'
C = 299.93'
Start = Sta. 750+22.91
End = Sta. 753+22.91
C.B. = N26°52'40"E

CURVE DATA
P.I. = STA. 742+47.06
Δ = 45°09'57" RT
Dc = 02°45'00"
R = 2,083.48'
T = 866.54'
L = 1,642.4'
E = 173.02'

BEGIN WORK STA. 665+00.00
BEGIN PROJECT STA. 666+00.00
END WORK STA. 753+00.00
END PROJECT STA. 752+00.00
MATCH LINE STA. 707+00
MATCH LINE STA. 707+00
STONE BROOK WAY
DWIRE RD
MASON RD
LEBANON RD
TURTLE GREEK
LITTLE MIAMI RIVER
LITTLE MIAMI RIVER
S.R.48
S.R.48
S.R.48
S.R.48

STRUCTURE NO. STA- 121+22.93 SFN
STRUCTURE NO. STA- 725+07.68 SFN 8301086
STRUCTURE NO. STA- 135+62.72 SFN
STRUCTURE NO. STA- 739+40.05 SFN 8301116

POT STA. 22+84.48
PT STA. 22+00.56
N53°57'17"W
PC STA. 20+70.94
732.24'
N83°39'43"W
POT STA. 100+00.00
N25°09'47"W
525.00'
PT STA. 703+87.84
POT STA. 8+34.69
POT STA. 6+00.00
PT STA. 13+38.70
PC STA. 12+91.40
POT STA. 10+00.00
N00°14'00"W
1,163.81'
POT STA. 4+00.00
POT STA. 17+63.81
PC STA. 2+54.88
POT STA. 2+00.00
N85°51'10"E
55.38'
PC STA. 672+25.10
PT STA. 670+65.64
PC STA. 665+94.82
1,453.68'
N00°48'10"W
159.46'
N00°08'19"E
PRC STA. 5+01.87
PT STA. 7+95.23
N77°01'06"E
334.65'
POT STA. 11+29.88
POT STA. 41+00.00
PC STA. 41+78.69
78.69'
N78°26'07"E
MASON RD
PT STA. 45+70.62
179.49'
N83°39'43"W
PC STA. 47+50.11
PT STA. 48+52.54
PC STA. 53+83.45
530.91'
N75°17'30"E
PT STA. 148+78.13
PC STA. 105+25.00
PT STA. 109+40.45
PC STA. 111+40.45
PT STA. 115+55.90
1,278.90'
N25°09'47"W
2,992.68'
N27°31'49"W
N25°09'47"W
PC STA. 128+34.81
TS STA. 730+80.51
SC STA. 733+80.51
CS STA. 750+22.91
ST STA. 753+22.91
POT STA. 153+05.67
N28°15'10"E
427.54'
S84°54'51"E
267.27'
PT STA. 58+67.71
POT STA. 61+66.98

HORIZONTAL
SCALE IN FEET
0 0 0 0

SCHEMATIC PLAN

WAR-SR48-7.50

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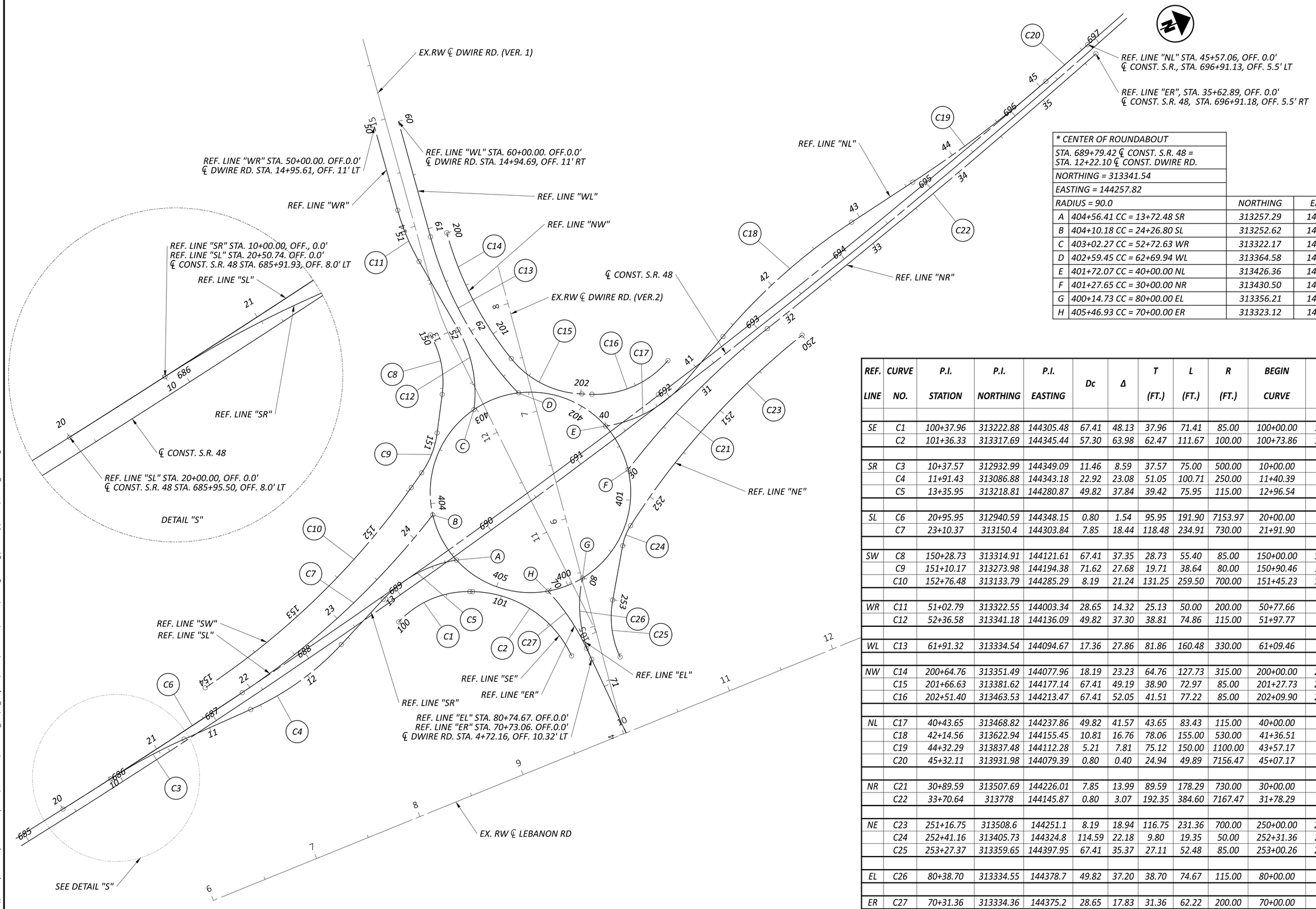
DESIGN AGENCY
Michael Baker INTERNATIONAL

DESIGNER	AKA
REVIEWER	KMD 04/17/26
PROJECT ID	117567
SUBSET	TOTAL
SHEET	TOTAL
P.2	P.40



* CENTER OF ROUNDABOUT		
STA. 689+79.42 ℄ CONST. S.R. 48 = STA. 12+22.10 ℄ CONST. DWIRE RD.		
NORTHING = 313341.54		
EASTING = 144257.82		
RADIUS = 90.0	NORTHING	EASTING
A 404+56.41 CC = 13+72.48 SR	313257.29	144289.43
B 404+10.18 CC = 24+26.80 SL	313252.62	144243.94
C 403+02.27 CC = 52+72.63 WR	313322.17	144169.93
D 402+59.45 CC = 62+69.94 WL	313364.58	144170.82
E 401+72.07 CC = 40+00.00 NL	313426.36	144227.72
F 401+27.65 CC = 30+00.00 NR	313430.50	144271.49
G 400+14.73 CC = 80+00.00 EL	313356.21	144346.62
H 405+46.93 CC = 70+00.00 ER	313323.12	144345.91

REF. LINE	CURVE NO.	P.I. STATION	P.I. NORTHING	P.I. EASTING	Dc	Δ	T (FT.)	L (FT.)	R (FT.)	BEGIN CURVE	END CURVE
SE	C1	100+37.96	313222.88	144305.48	67.41	48.13	37.96	71.41	85.00	100+00.00	100+71.41
	C2	101+36.33	313317.69	144345.44	57.30	63.98	62.47	111.67	100.00	100+73.86	101+85.53
SR	C3	10+37.57	312932.99	144349.09	11.46	8.59	37.57	75.00	500.00	10+00.00	10+75.00
	C4	11+91.43	313086.88	144343.18	22.92	23.08	51.05	100.71	250.00	11+40.39	12+41.09
	C5	13+35.95	313218.81	144280.87	49.82	37.84	39.42	75.95	115.00	12+96.54	13+72.48
SL	C6	20+95.95	312940.59	144348.15	0.80	1.54	95.95	191.90	7153.97	20+00.00	21+91.90
	C7	23+10.37	313150.4	144303.84	7.85	18.44	118.48	234.91	730.00	21+91.90	24+26.80
SW	C8	150+28.73	313314.91	144121.61	67.41	37.35	28.73	55.40	85.00	150+00.00	150+55.40
	C9	151+10.17	313273.98	144194.38	71.62	27.68	19.71	38.64	80.00	150+90.46	151+29.11
	C10	152+76.48	313133.79	144285.29	8.19	21.24	131.25	259.50	700.00	151+45.23	154+04.72
WR	C11	51+02.79	313322.55	144003.34	28.65	14.32	25.13	50.00	200.00	50+77.66	51+27.66
	C12	52+36.58	313341.18	144136.09	49.82	37.30	38.81	74.86	115.00	51+97.77	52+72.63
WL	C13	61+91.32	313334.54	144094.67	17.36	27.86	81.86	160.48	330.00	61+09.46	62+69.95
NW	C14	200+64.76	313351.49	144077.96	18.19	23.23	64.76	127.73	315.00	200+00.00	201+27.73
	C15	201+66.63	313381.62	144177.14	67.41	49.19	38.90	72.97	85.00	201+27.73	202+00.70
	C16	202+51.40	313463.53	144213.47	67.41	52.05	41.51	77.22	85.00	202+09.90	202+87.12
NL	C17	40+43.65	313468.82	144237.86	49.82	41.57	43.65	83.43	115.00	40+00.00	40+83.43
	C18	42+14.56	313622.94	144155.45	10.81	16.76	78.06	155.00	530.00	41+36.51	42+91.51
	C19	44+32.29	313837.48	144112.28	5.21	7.81	75.12	150.00	1100.00	43+57.17	45+07.17
	C20	45+32.11	313931.98	144079.39	0.80	0.40	24.94	49.89	7156.47	45+07.17	45+57.06
NR	C21	30+89.59	313507.69	144226.01	7.85	13.99	89.59	178.29	730.00	30+00.00	31+78.29
	C22	33+70.64	313778	144145.87	0.80	3.07	192.35	384.60	7167.47	31+78.29	35+62.89
NE	C23	251+16.75	313508.6	144251.1	8.19	18.94	116.75	231.36	700.00	250+00.00	252+31.36
	C24	252+41.16	313405.73	144324.8	114.59	22.18	9.80	19.35	50.00	252+31.36	252+50.71
	C25	253+27.37	313359.65	144397.95	67.41	35.37	27.11	52.48	85.00	253+00.26	253+52.74
EL	C26	80+38.70	313334.55	144378.7	49.82	37.20	38.70	74.67	115.00	80+00.00	80+74.67
ER	C27	70+31.36	313334.36	144375.2	28.65	17.83	31.36	62.22	200.00	70+00.00	70+62.22

ROUNDABOUT GEOMETRIC LAYOUT

WAR-SR48-7.50

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DESIGN AGENCY
Michael Baker INTERNATIONAL

DESIGNER
AKA

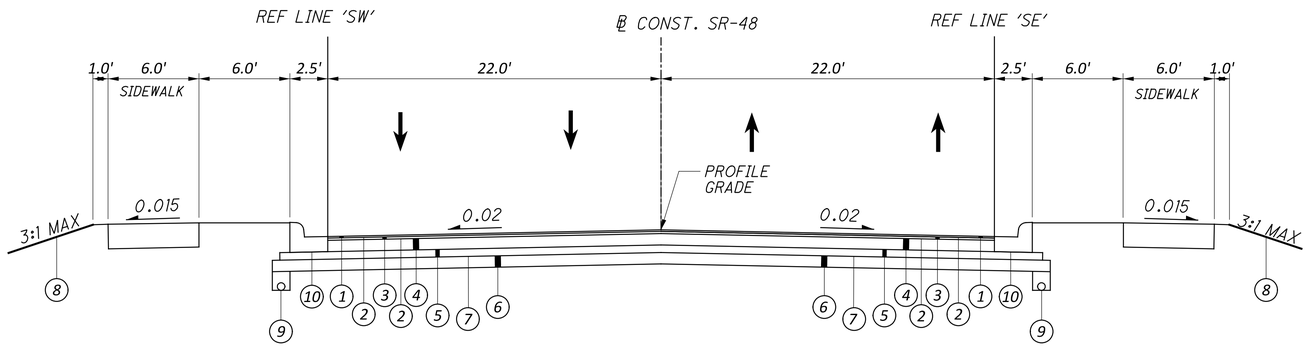
REVIEWER
KMD 04/17/26

PROJECT ID
117567

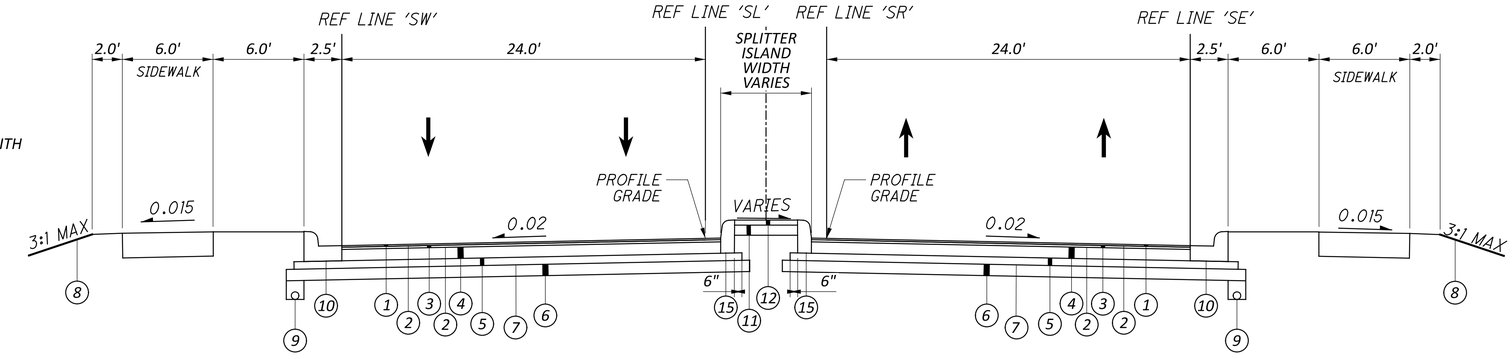
SHEET P.3 TOTAL P.40

PROPOSED LEGEND

1. ITEM 442- ASPHALT CONCRETE SURFACE COURSE, 12.5mm, TYPE A (446), (T=1.5")
2. ITEM 407- NON-TRACKING TACK COAT
3. ITEM 442- ASPHALT CONCRETE INTERMEDIATE COURSE, 12.5mm, TYPE A(446), (T=1 3/4")
4. ITEM 301- ASPHALT CONCRETE BASE, PG64-22, (499), (T=8")
5. ITEM 304- AGGREGATE BASE (T=6")
6. ITEM 206- CHEMICALLY STABILIZED SUBGRADE, XX".
7. ITEM 204- PROOF ROLLING
8. ITEM 659- SEEDING AND MULCHING
9. ITEM 605- 6" BASE PIPE UNDERDRAINS, WITH GEOTEXTILE FABRIC
10. ITEM 609- COMBINATION CURB AND GUTTER, TYPE 2
11. ITEM 304- AGGREGATE BASE (T=4")
12. ITEM 452- 9" NON-REINFORCED CONCRETE PAVEMENT, CLASS QC 1P
13. ITEM 452- 8" NON-REINFORCED CONCRETE PAVEMENT, CLASS QC 1P, AS PER PLAN
14. ITEM 304- AGGREGATE BASE (T=6")
15. ITEM 609- CURB, TYPE 4-C
16. ITEM 609- CURB, TYPE 6
17. ITEM 609- CURB, TYPE 9
18. ITEM 601- ROCK CHANNEL PROTECTION, MISC.: WASHED LANDSCAPE GRAVEL WITH GEOTEXTILE FABRIC (T=4")



SOUTH LEG NORMAL SECTION
SR-48



APPROACH SECTION WITH SPLITTER ISLAND
SOUTH LEG SR-48

TYPICAL SECTION

WAR-SR48-7.50

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DESIGN AGENCY
Michael Baker INTERNATIONAL

DESIGNER
AKA

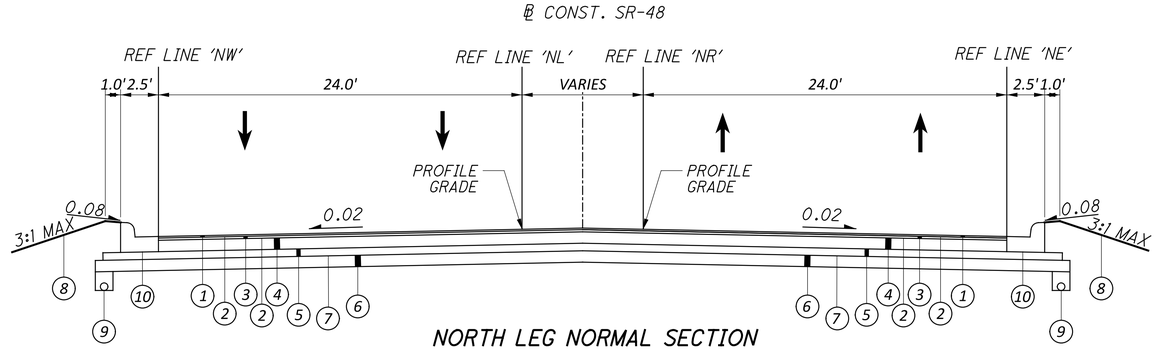
REVIEWER
KMD 04-17-26

PROJECT ID
117567

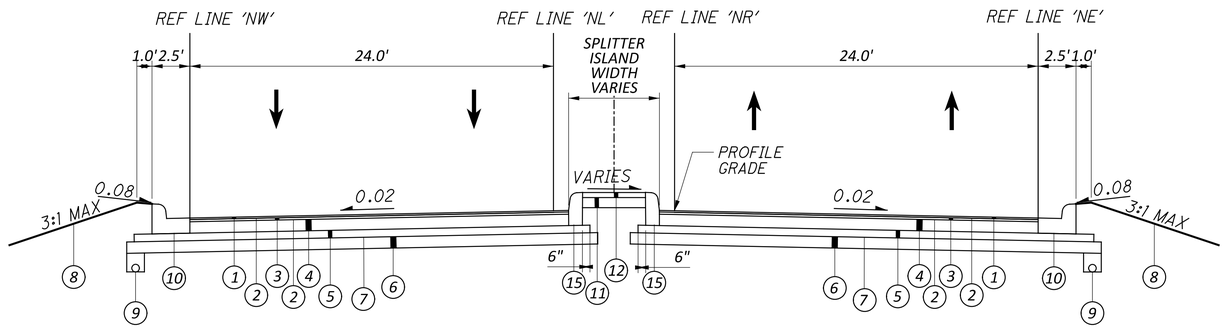
SHEET P.4 | TOTAL P.40

PROPOSED LEGEND

1. ITEM 442- ASPHALT CONCRETE SURFACE COURSE, 12.5mm, TYPE A (446), (T=1.5")
2. ITEM 407- NON-TRACKING TACK COAT
3. ITEM 442- ASPHALT CONCRETE INTERMEDIATE COURSE, 12.5mm, TYPE A(446), (T=1 3/4")
4. ITEM 301- ASPHALT CONCRETE BASE, PG64-22, (499), (T=8")
5. ITEM 304- AGGREGATE BASE (T=6")
6. ITEM 206- CHEMICALLY STABILIZED SUBGRADE, XX".
7. ITEM 204- PROOF ROLLING
8. ITEM 659- SEEDING AND MULCHING
9. ITEM 605- 6" BASE PIPE UNDERDRAINS, WITH GEOTEXTILE FABRIC
10. ITEM 609- COMBINATION CURB AND GUTTER, TYPE 2
11. ITEM 304- AGGREGATE BASE (T=4")
12. ITEM 452- 9" NON-REINFORCED CONCRETE PAVEMENT, CLASS QC 1P
13. ITEM 452- 8" NON-REINFORCED CONCRETE PAVEMENT, CLASS QC 1P, AS PER PLAN
14. ITEM 304- AGGREGATE BASE (T=6")
15. ITEM 609- CURB, TYPE 4-C
16. ITEM 609- CURB, TYPE 6
17. ITEM 609- CURB, TYPE 9
18. ITEM 601- ROCK CHANNEL PROTECTION, MISC.: WASHED LANDSCAPE GRAVEL WITH GEOTEXTILE FABRIC (T=4")



NORTH LEG NORMAL SECTION
SR-48



APPROACH SECTION WITH SPLITTER ISLAND
NORTH LEG SR-48

TYPICAL SECTION

WAR-SR48-7.50

DESIGN AGENCY
Michael Baker INTERNATIONAL

DESIGNER
AKA

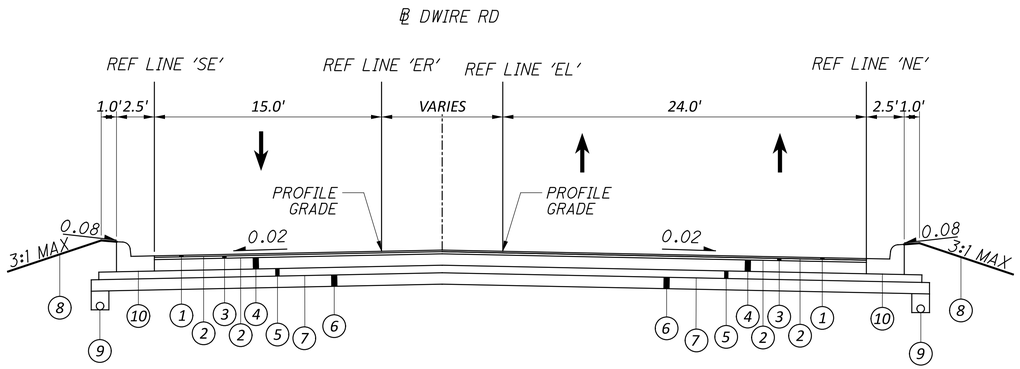
REVIEWER
KMD 04-17-26

PROJECT ID
117567

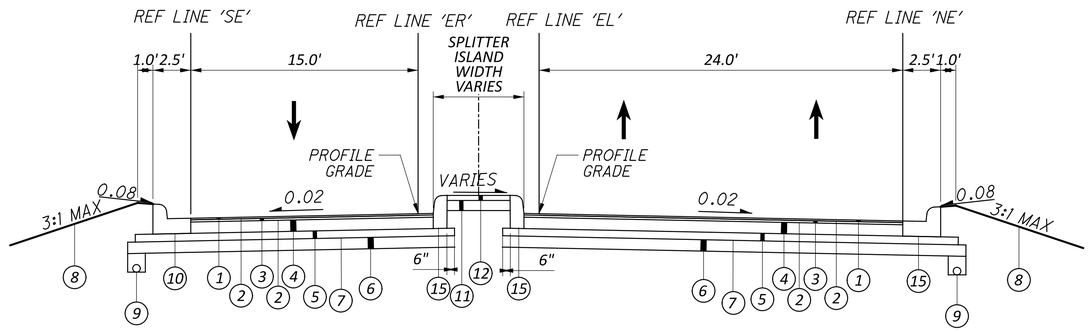
SHEET P.5 | TOTAL P.40

PROPOSED LEGEND

1. ITEM 442- ASPHALT CONCRETE SURFACE COURSE, 12.5mm, TYPE A (446), (T=1.5")
2. ITEM 407- NON-TRACKING TACK COAT
3. ITEM 442- ASPHALT CONCRETE INTERMEDIATE COURSE, 12.5mm, TYPE A(446), (T=1 3/4")
4. ITEM 301- ASPHALT CONCRETE BASE, PG64-22, (499), (T=8")
5. ITEM 304- AGGREGATE BASE (T=6")
6. ITEM 206- CHEMICALLY STABILIZED SUBGRADE, XX".
7. ITEM 204- PROOF ROLLING
8. ITEM 659- SEEDING AND MULCHING
9. ITEM 605- 6" BASE PIPE UNDERDRAINS, WITH GEOTEXTILE FABRIC
10. ITEM 609- COMBINATION CURB AND GUTTER, TYPE 2
11. ITEM 304- AGGREGATE BASE (T=4")
12. ITEM 452- 9" NON-REINFORCED CONCRETE PAVEMENT, CLASS QC 1P
13. ITEM 452- 8" NON-REINFORCED CONCRETE PAVEMENT, CLASS QC 1P, AS PER PLAN
14. ITEM 304- AGGREGATE BASE (T=6")
15. ITEM 609- CURB, TYPE 4-C
16. ITEM 609- CURB, TYPE 6
17. ITEM 609- CURB, TYPE 9
18. ITEM 601- ROCK CHANNEL PROTECTION, MISC.: WASHED LANDSCAPE GRAVEL WITH GEOTEXTILE FABRIC (T=4")



EAST LEG NORMAL SECTION
DWIRE RD



APPROACH SECTION WITH SPLITTER ISLAND
EAST LEG DWIRE RD

TYPICAL SECTION

DESIGN AGENCY
Michael Baker INTERNATIONAL

DESIGNER
AKA

REVIEWER
KMD 04-17-26

PROJECT ID
117567

SHEET P.6 | TOTAL P.40

WAR-SR48-7.50

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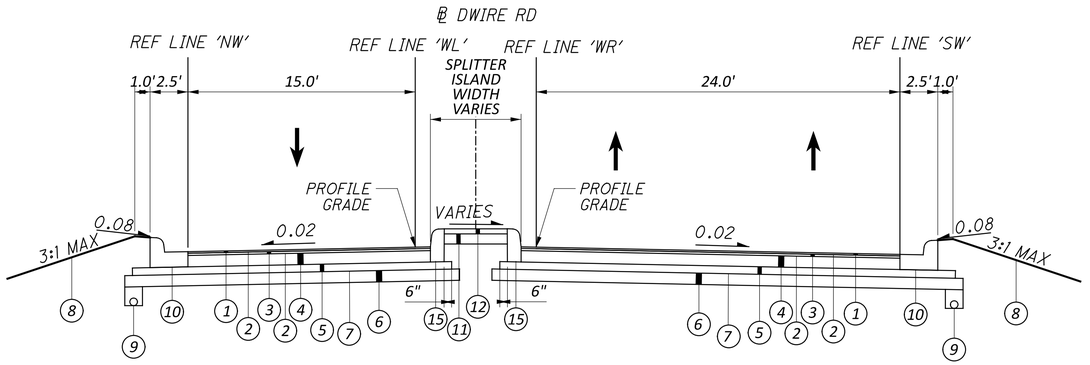
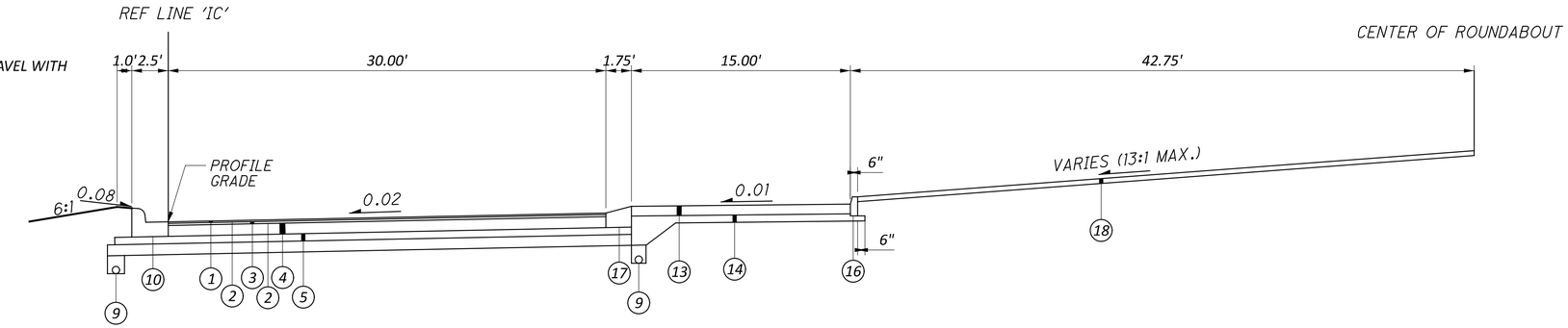
PROPOSED LEGEND

1. ITEM 442- ASPHALT CONCRETE SURFACE COURSE, 12.5mm, TYPE A (446), (T=1.5")
2. ITEM 407- NON-TRACKING TACK COAT
3. ITEM 442- ASPHALT CONCRETE INTERMEDIATE COURSE, 12.5mm, TYPE A(446), (T=1 3/4")
4. ITEM 301- ASPHALT CONCRETE BASE, PG64-22, (499), (T=8")
5. ITEM 304- AGGREGATE BASE (T=6")
6. ITEM 206- CHEMICALLY STABILIZED SUBGRADE, XX".
7. ITEM 204- PROOF ROLLING
8. ITEM 659- SEEDING AND MULCHING
9. ITEM 605- 6" BASE PIPE UNDERDRAINS, WITH GEOTEXTILE FABRIC
10. ITEM 609- COMBINATION CURB AND GUTTER, TYPE 2
11. ITEM 304- AGGREGATE BASE (T=4")
12. ITEM 452- 9" NON-REINFORCED CONCRETE PAVEMENT, CLASS QC 1P
13. ITEM 452- 8" NON-REINFORCED CONCRETE PAVEMENT, CLASS QC 1P, AS PER PLAN
14. ITEM 304- AGGREGATE BASE (T=6")
15. ITEM 609- CURB, TYPE 4-C
16. ITEM 609- CURB, TYPE 6
17. ITEM 609- CURB, TYPE 9
18. ITEM 601- ROCK CHANNEL PROTECTION, MISC.: WASHED LANDSCAPE GRAVEL WITH GEOTEXTILE FABRIC (T=4")



APPROACH SECTION WITH SPLITTER ISLAND
WEST LEG DWIRE RD



ROUNDABOUT CENTER SECTION

TYPICAL SECTION

WAR-SR48-7.50

DESIGN AGENCY
Michael Baker INTERNATIONAL

DESIGNER
AKA

REVIEWER
KMD 04-17-26

PROJECT ID
117567

SHEET P.7 | TOTAL P.40

WAR-SR48-7.50

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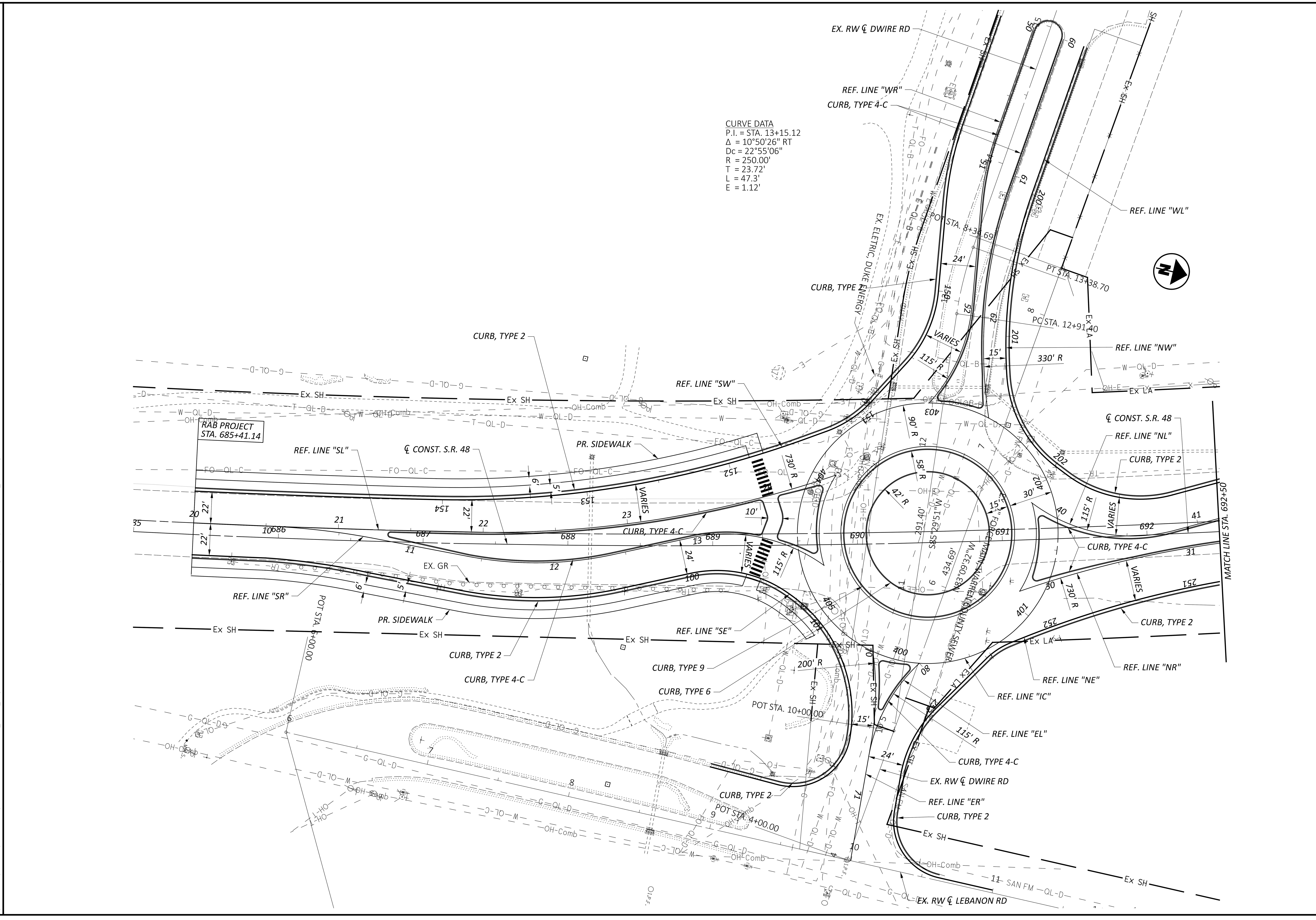

HORIZONTAL SCALE IN FEET

0 15 30 60

PLAN AND PROFILE SR 48
STA. 685+00.00 TO STA. 692+50.00

DESIGN AGENCY

Michael Baker INTERNATIONAL

DESIGNER
AKA

REVIEWER
KMD 04/17/26

PROJECT ID
117567

SHEET P.9 TOTAL P.40

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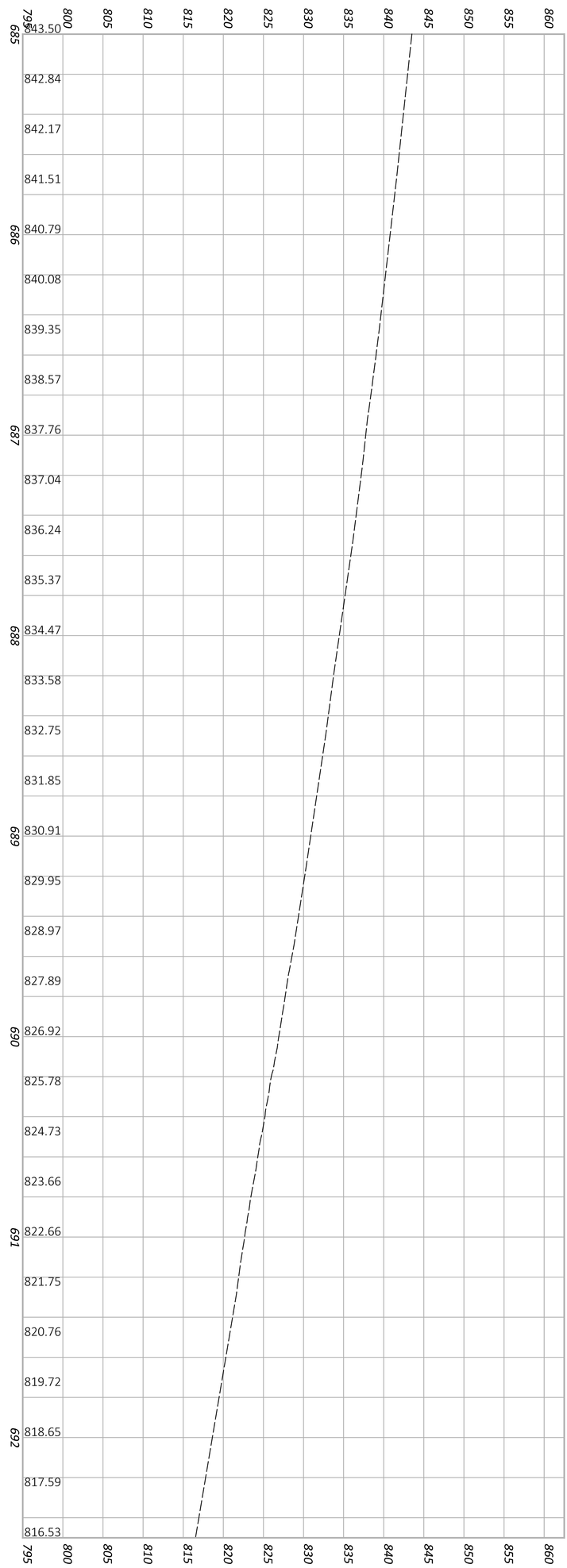

SHEET P.10 / TOTAL P.40	PROJECT ID 117567	REVIEWER KMD 04/17/26	DESIGNER AKA	Michael Baker INTERNATIONAL	DESIGN AGENCY

PLAN AND PROFILE SR 48
STA. 685+00.00 TO STA. 692+50.00

HORIZONTAL SCALE IN FEET
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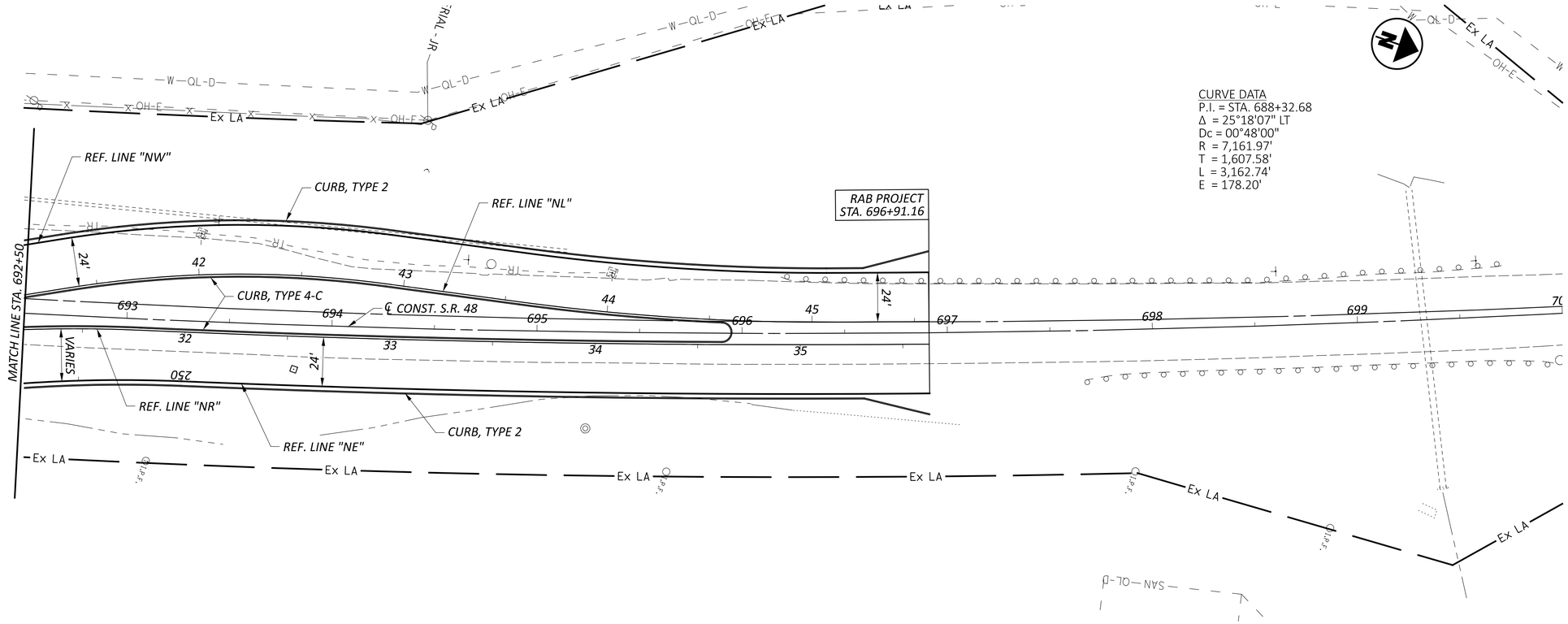

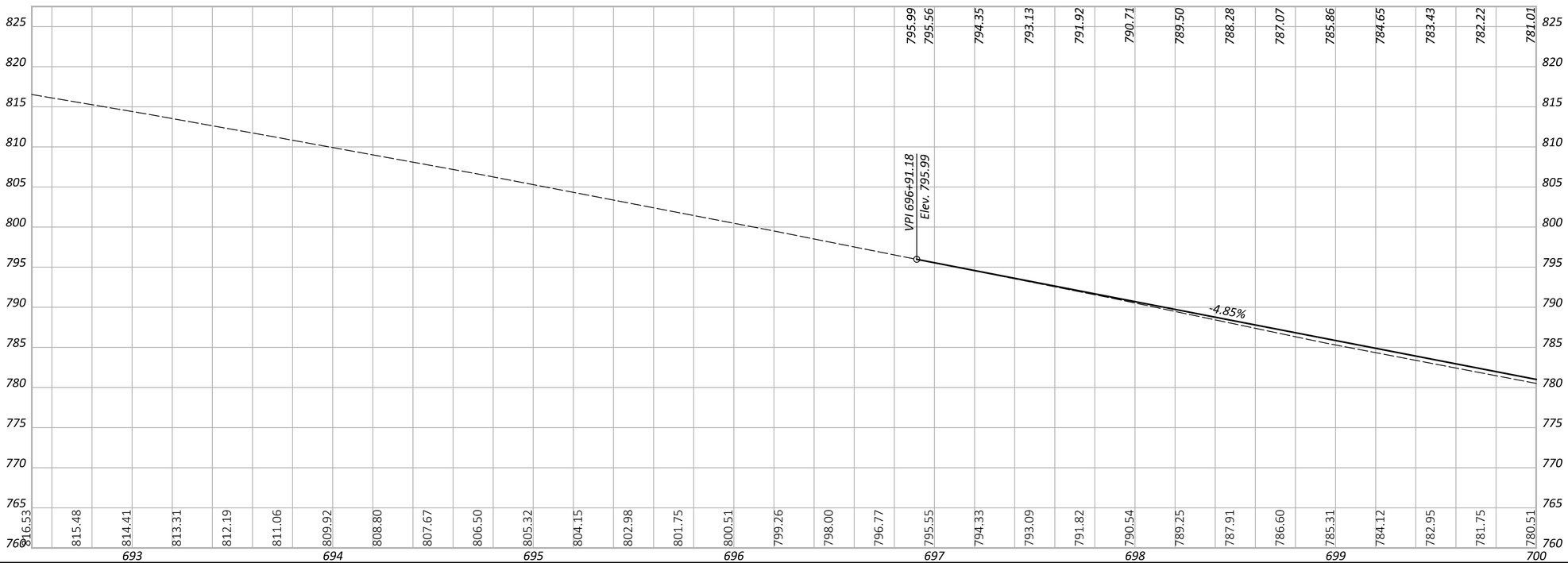

WAR-SR48-7.50

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HORIZONTAL SCALE IN FEET
0 15 30 60

PLAN AND PROFILE SR 48
STA. 692+50.00 TO STA. 700+00.00

DESIGN AGENCY
Michael Baker INTERNATIONAL

DESIGNER	AKA
REVIEWER	KMD 04/17/26
PROJECT ID	117567
SHEET	P.11
TOTAL	P.40

ROUNDABOUT PROFILE
REF. LINE IC

WAR-SR48-7.50

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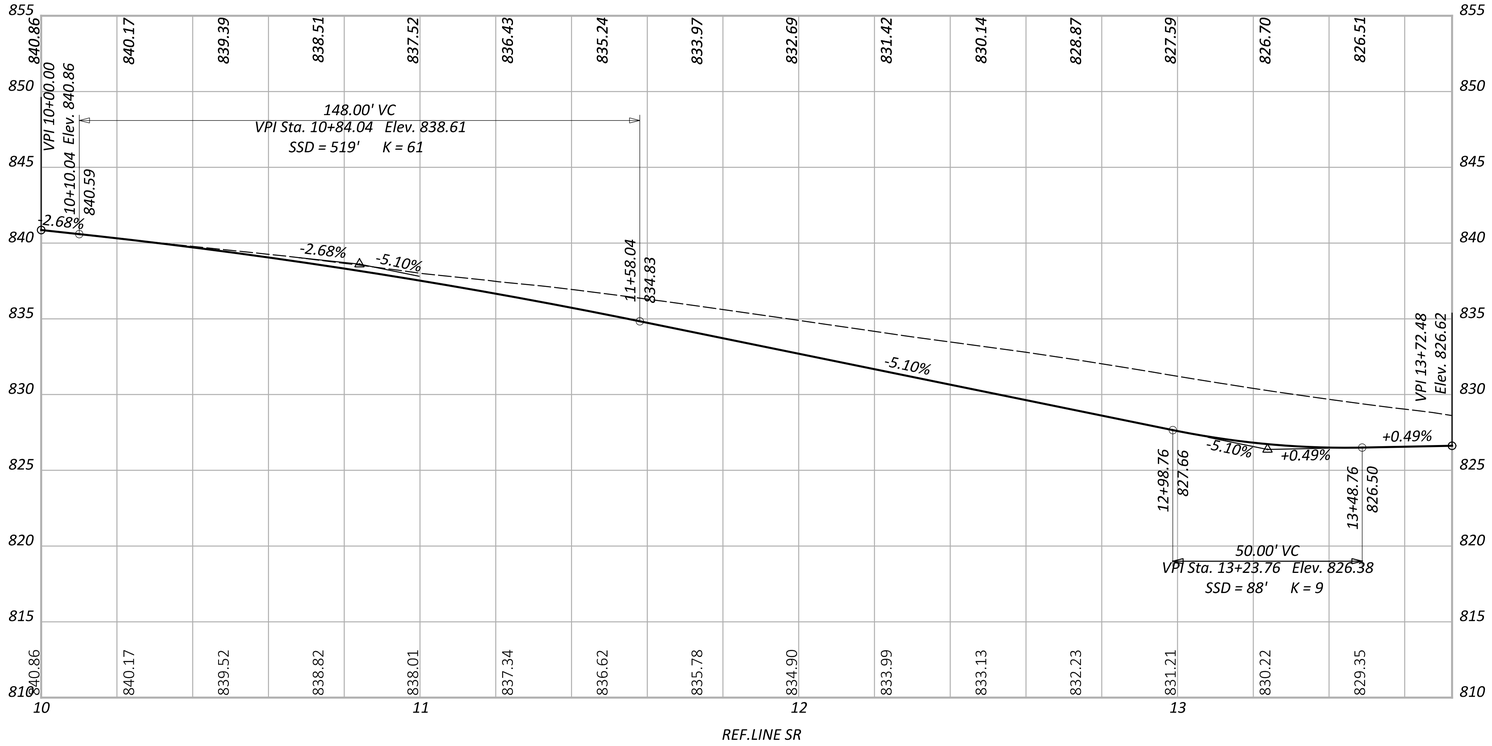
DESIGN AGENCY
Michael Baker INTERNATIONAL

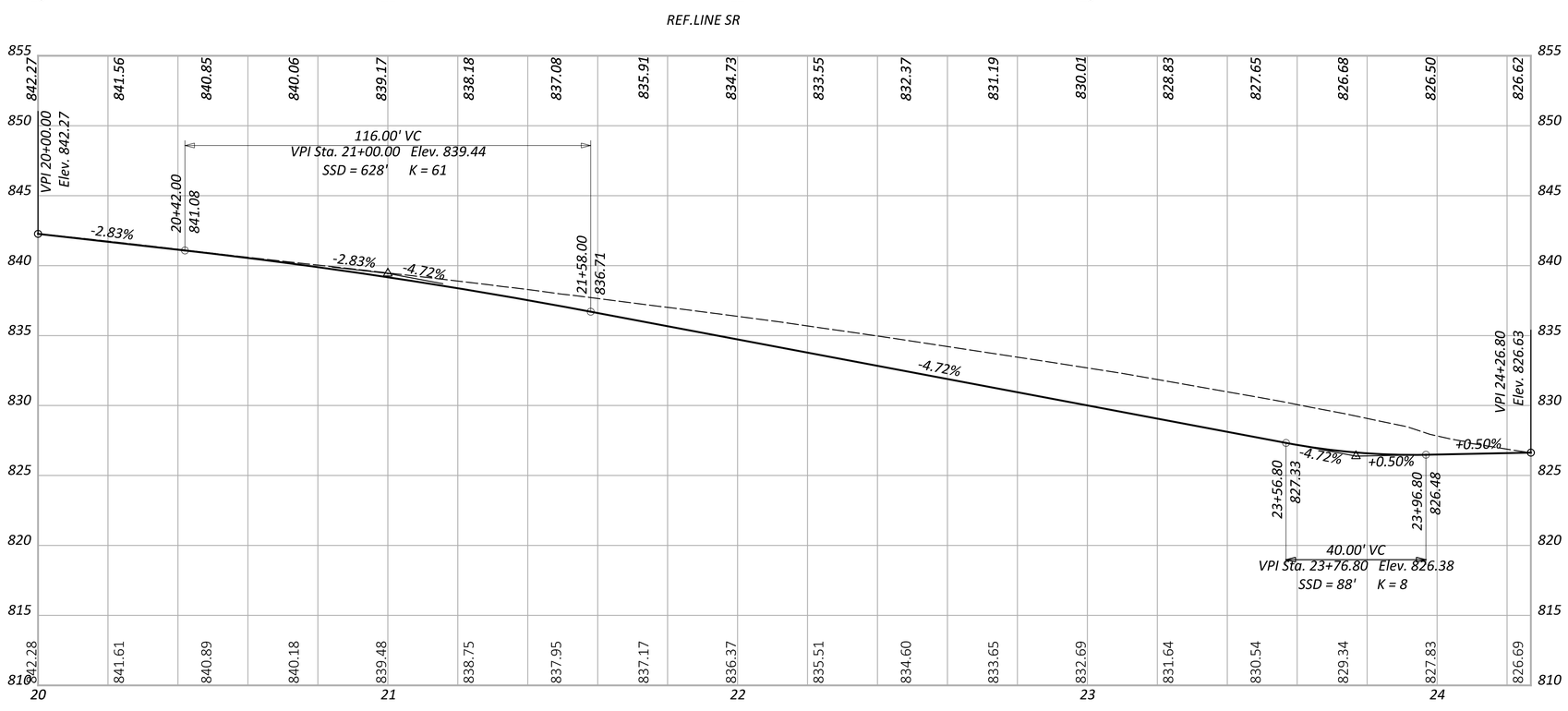
DESIGNER
AKA

REVIEWER
KMD 04/17/26

PROJECT ID
117567

SHEET P.12 | TOTAL P.40





ROUNDABOUT PROFILES
REF. LINE SR & SL

WAR-SR48-7.50

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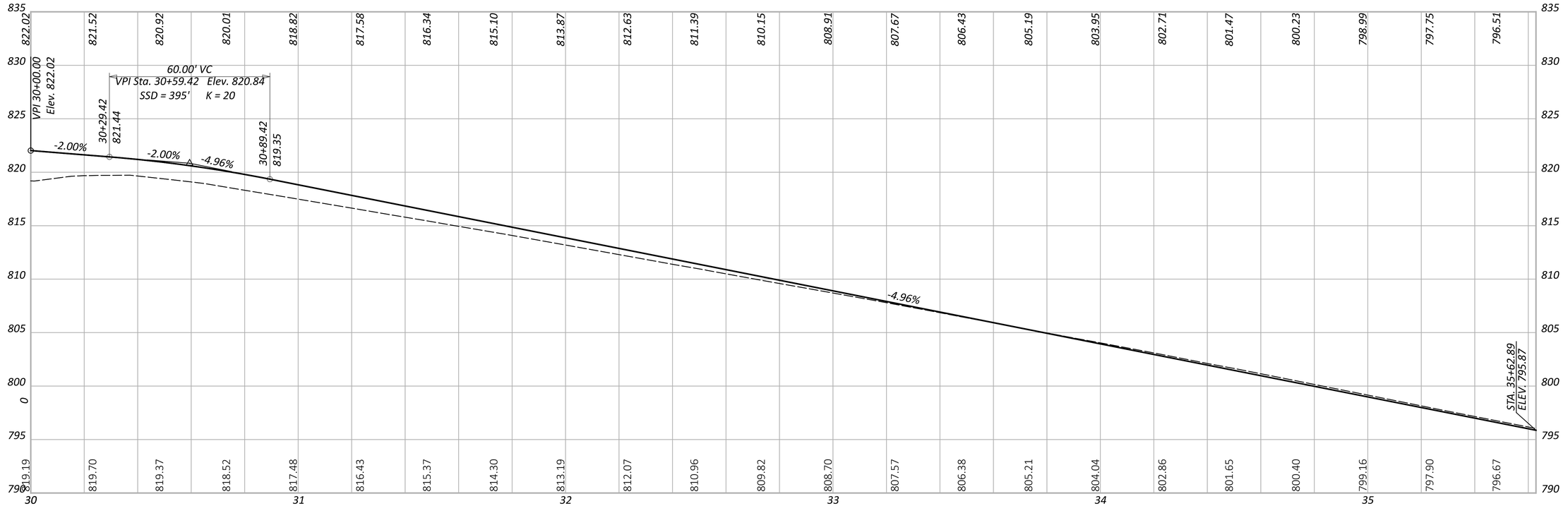
DESIGN AGENCY
Michael Baker INTERNATIONAL

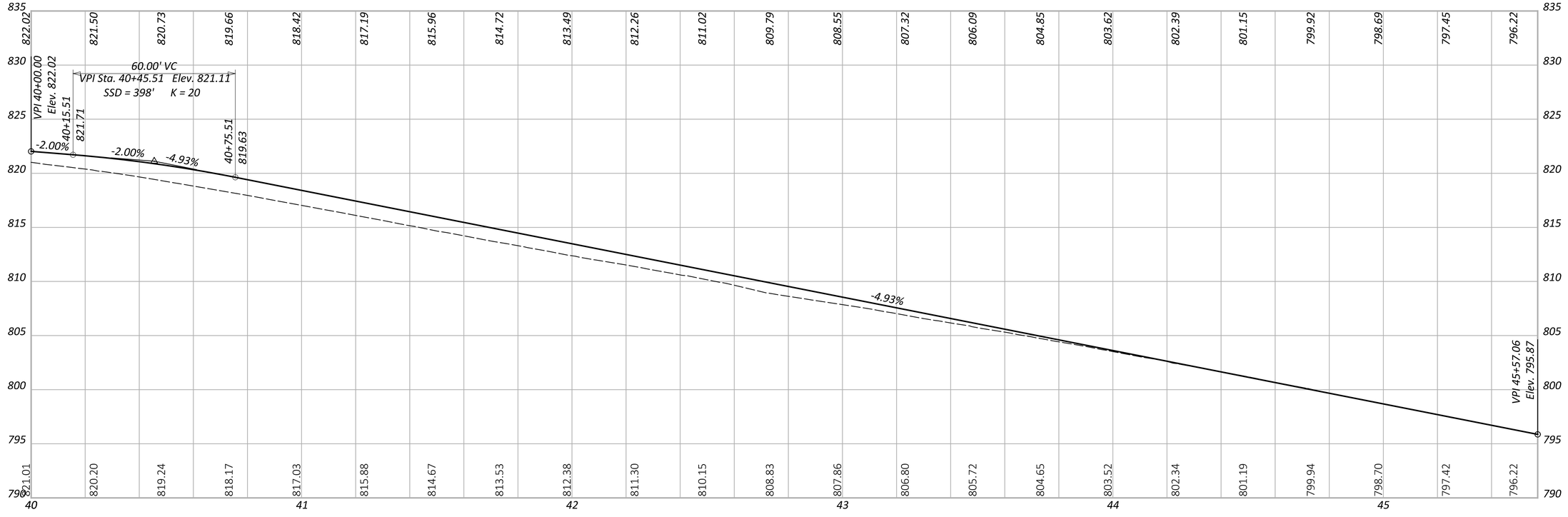
DESIGNER
AKA

REVIEWER
KMD 04/17/26

PROJECT ID
117567

SHEET P.13 TOTAL P.40





ROUNDABOUT PROFILES
REF. LINE NR & NL

WAR-SR48-7.50

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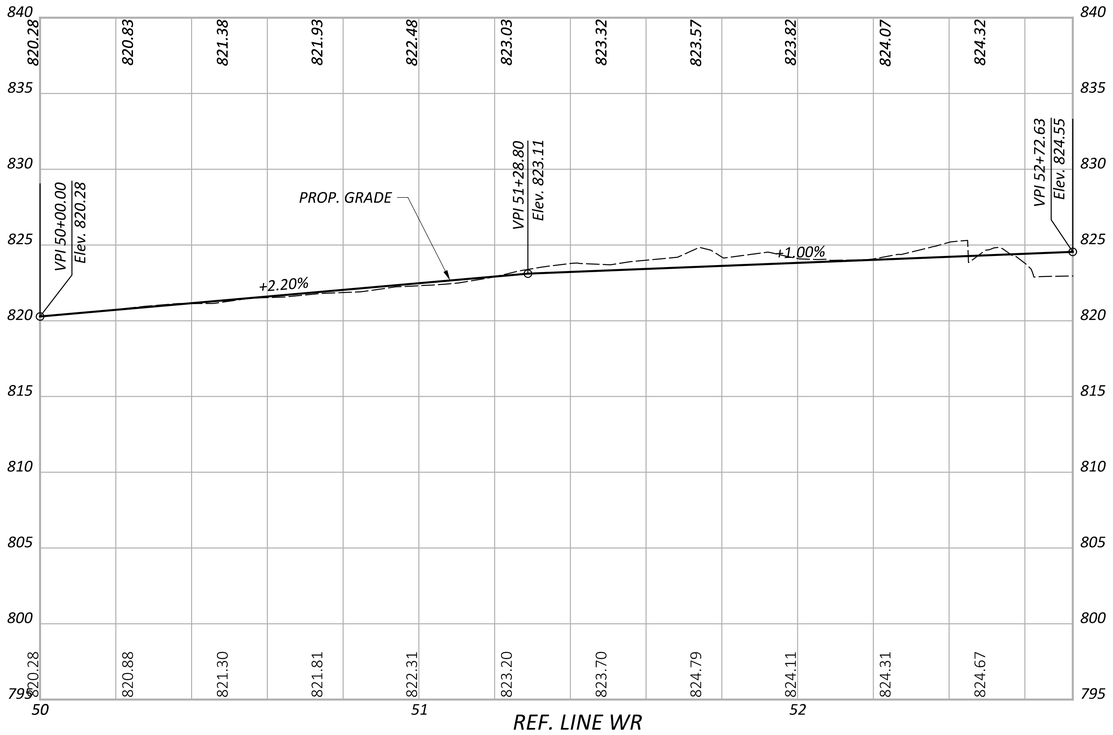
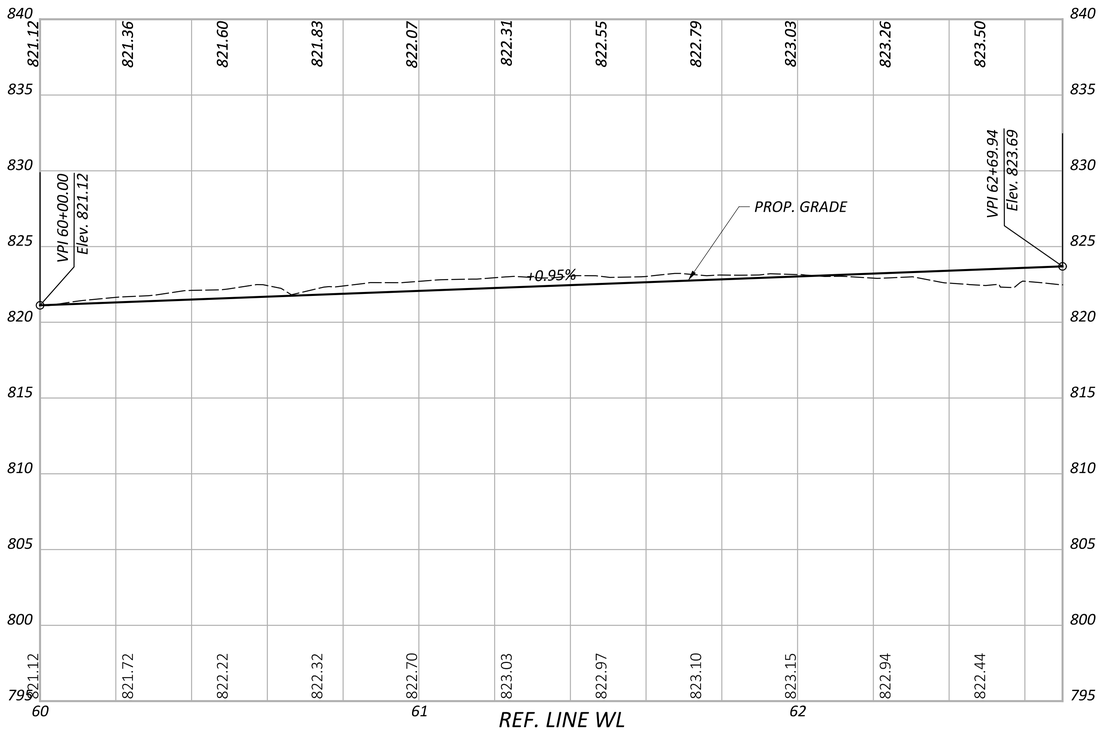
DESIGN AGENCY
Michael Baker INTERNATIONAL

DESIGNER AKA
REVIEWER KMD 04/17/26
PROJECT ID 117567
SHEET P.14 TOTAL P.40





ROUNDABOUT PROFILES
REF. LINE WR & WL

WAR-SR48-7.50

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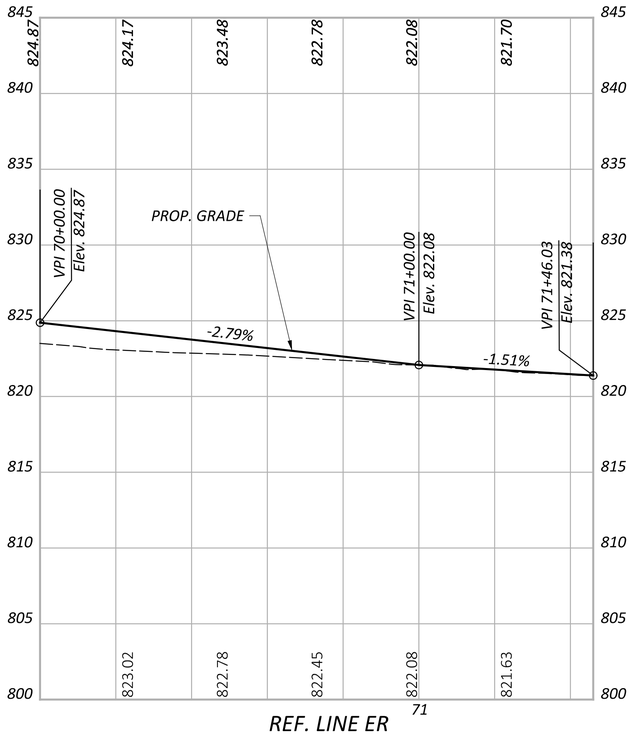
DESIGN AGENCY
Michael Baker INTERNATIONAL

DESIGNER
AKA

REVIEWER
KMD 04/17/26

PROJECT ID
117567

SHEET P.15 | TOTAL P.40



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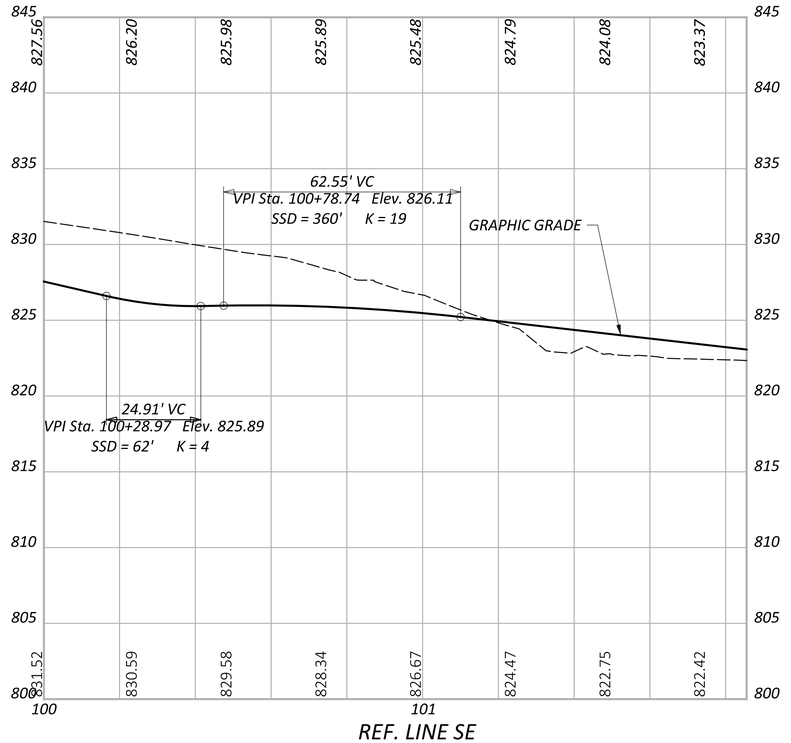

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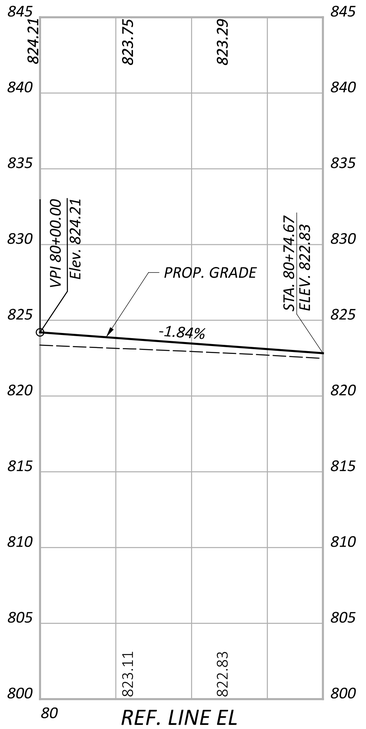

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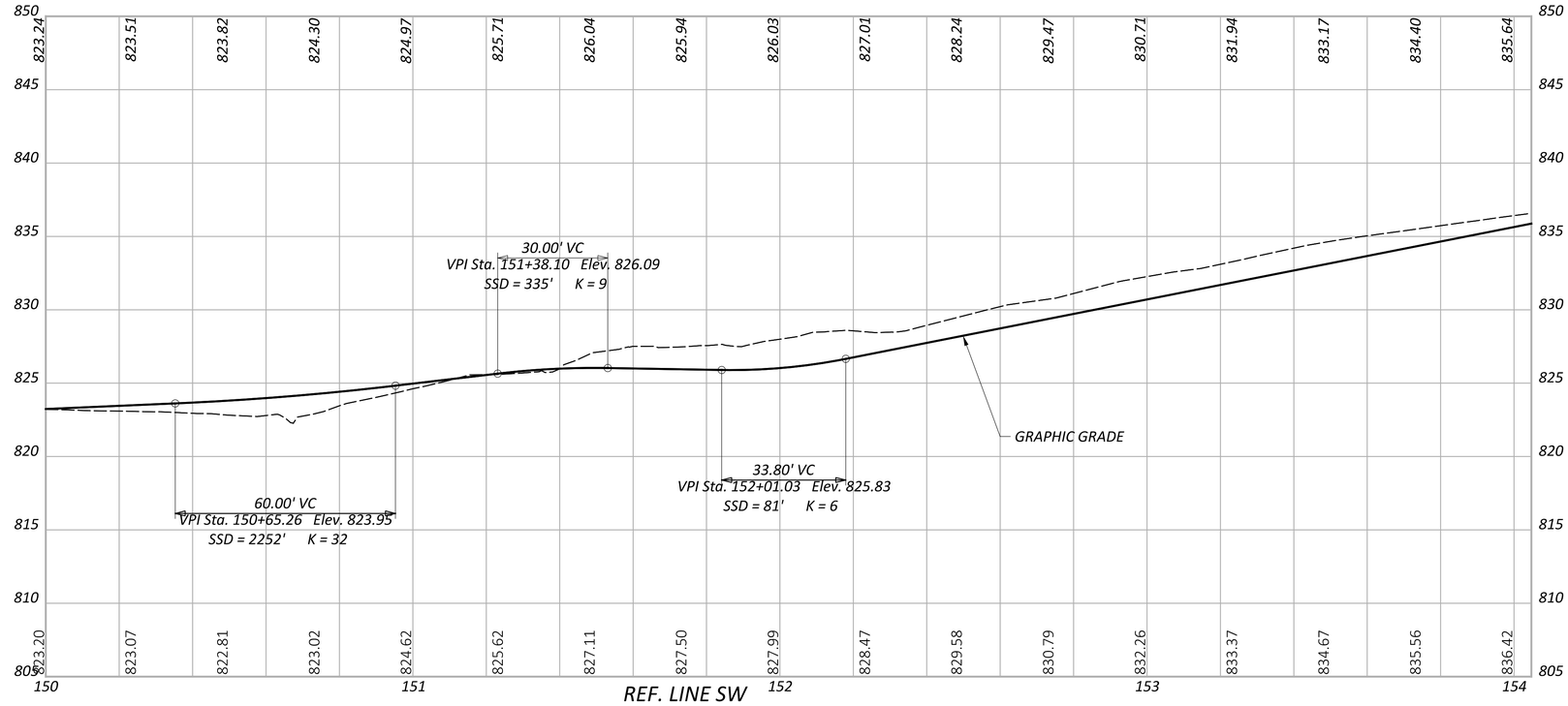

REF. LINE SW

ROUNDABOUT PROFILES
REF. LINE ER, SE, EL & SW

WAR-SR48-7.50

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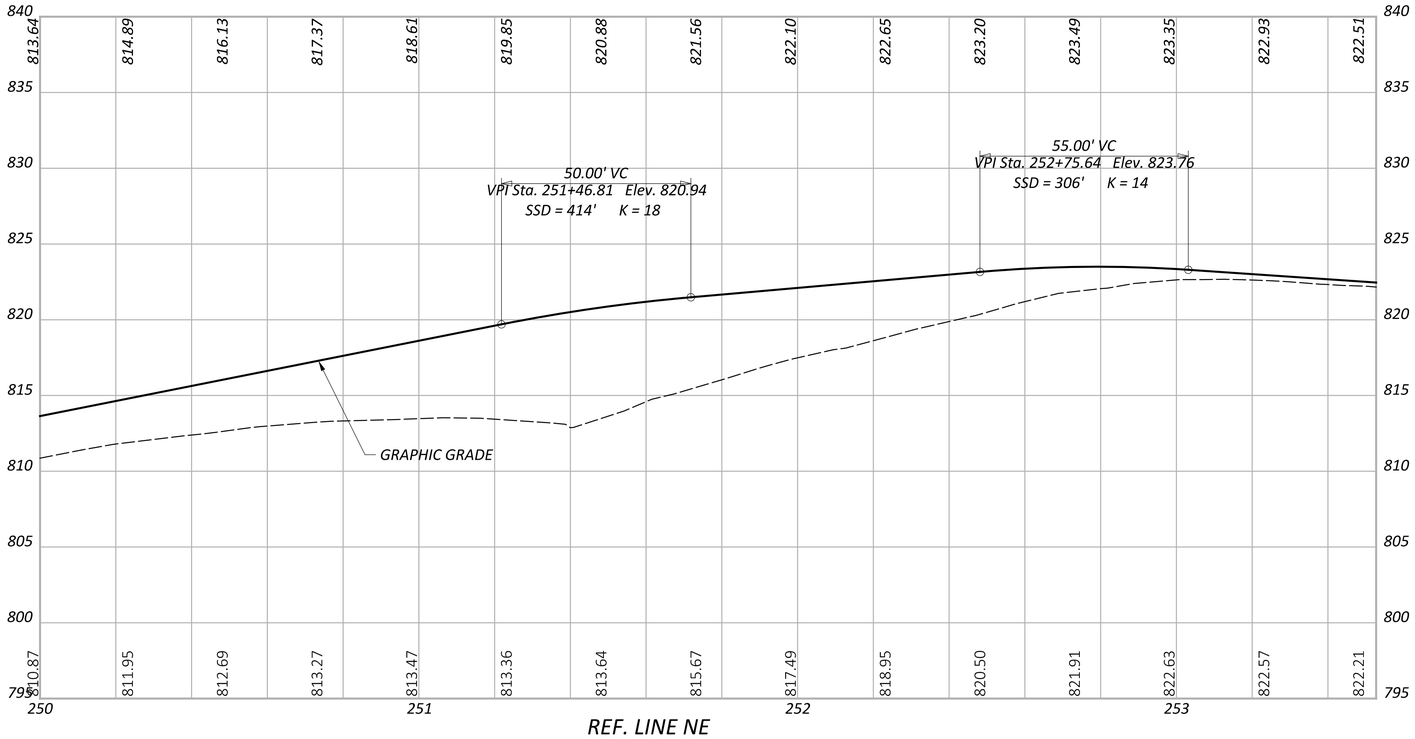
DESIGN AGENCY
Michael Baker INTERNATIONAL

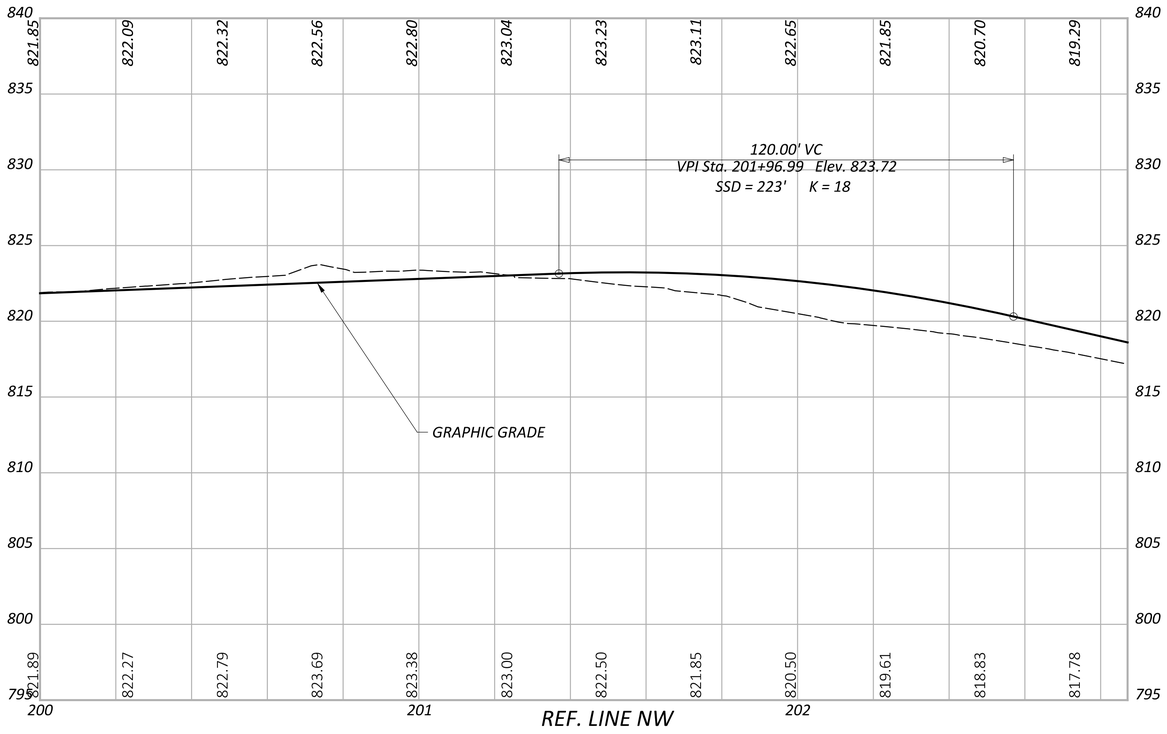
DESIGNER
AKA

REVIEWER
KMD 04/17/26

PROJECT ID
117567

SHEET P.16 | TOTAL P.40





ROUNDABOUT PROFILES
REF. LINE NE & NW

WAR-SR48-7.50

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DESIGN AGENCY
Michael Baker INTERNATIONAL

DESIGNER
AKA

REVIEWER
KMD 04/17/26

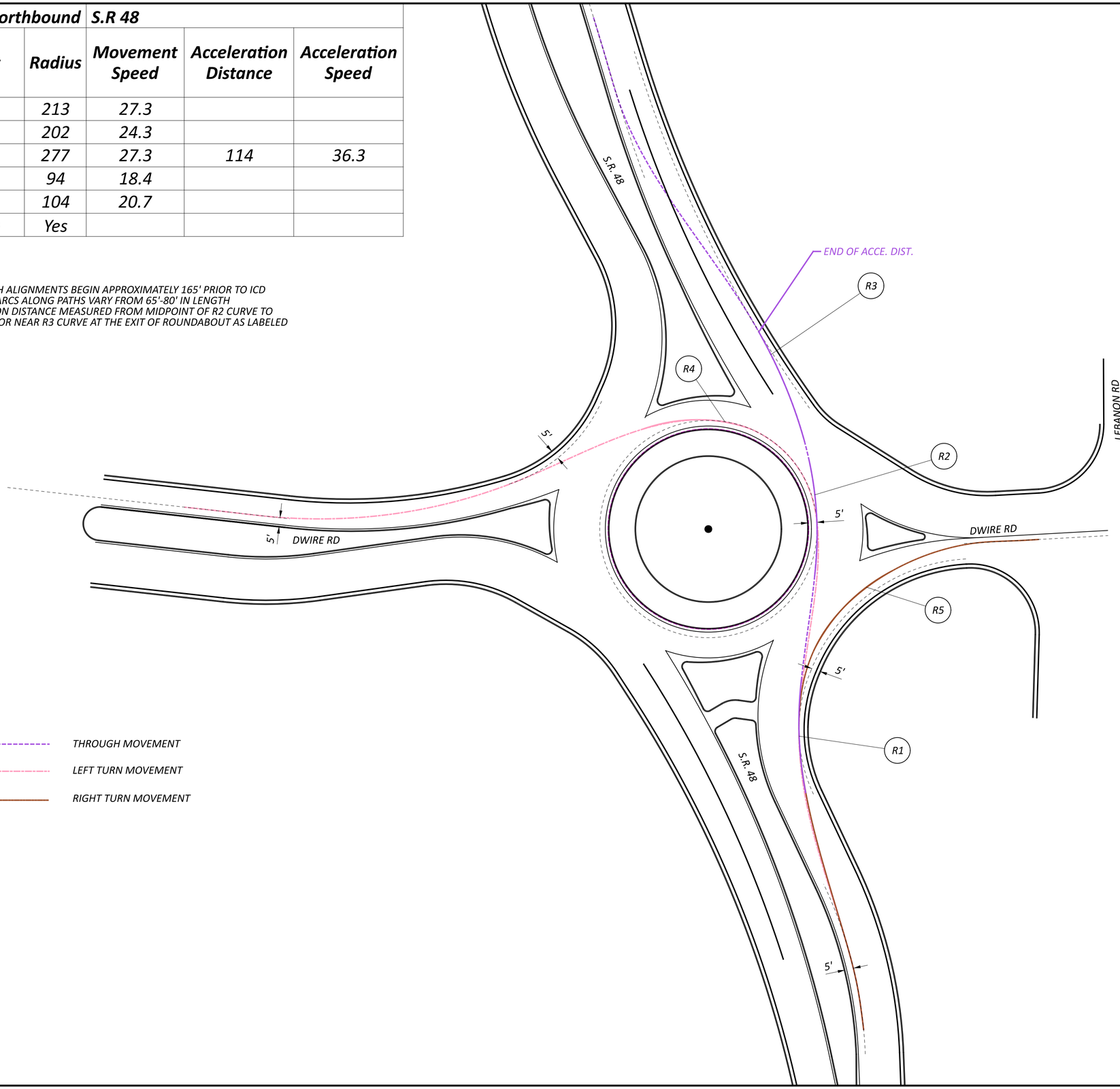
PROJECT ID
117567

SHEET P.17 | TOTAL P.40

Northbound	S.R 48			
Movement	**Radius**	**Movement Speed**	**Acceleration Distance**	**Acceleration Speed**
R1	213	27.3		
R2	202	24.3		
R3	277	27.3	114	36.3
R4	94	18.4		
R5	104	20.7		
R1<30mph	Yes			

NOTES:

1. *FASTEST PATH ALIGNMENTS BEGIN APPROXIMATELY 165' PRIOR TO ICD*
2. *MEASURED ARCS ALONG PATHS VARY FROM 65'-80' IN LENGTH*
3. *ACCELERATION DISTANCE MEASURED FROM MIDPOINT OF R2 CURVE TO A POINT ON OR NEAR R3 CURVE AT THE EXIT OF ROUNDABOUT AS LABELED*



HORIZONTAL SCALE IN FEET
0 15 30 60

FASTEST PATH EXHIBITS
S.R. 48 NB

WAR-SR48-7.50

MODEL: North Bound Path PAPERSIZE: 34x22 (in.) DATE: 4/17/2026 TIME: 3:55:33 PM USER: Owusu.Poku
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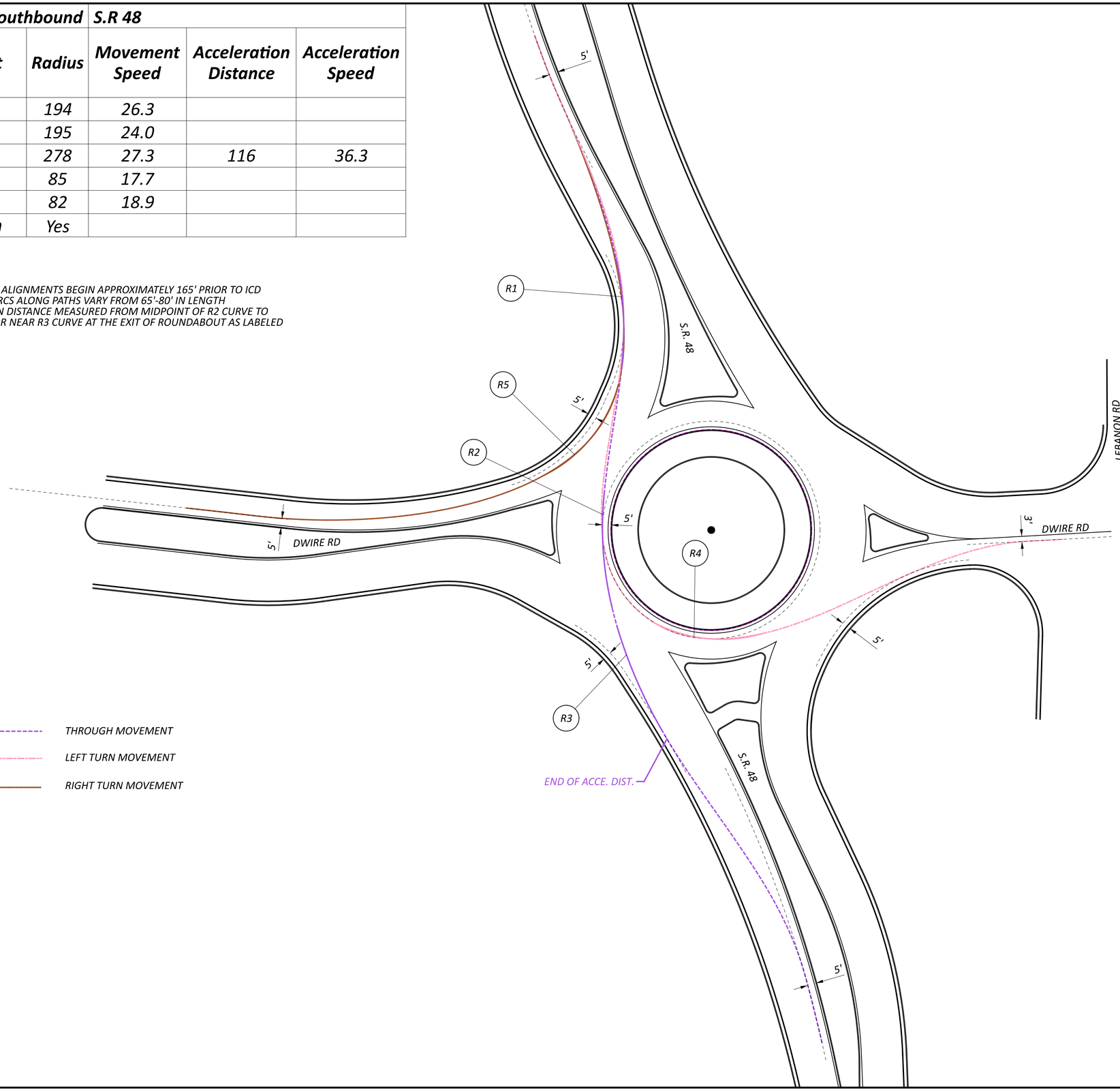
DESIGN AGENCY
Michael Baker INTERNATIONAL

DESIGNER AKA
REVIEWER KMD 04/17/26
PROJECT ID 117567
SHEET P.18 TOTAL P.40

Southbound	S.R 48			
Movement	**Radius**	**Movement Speed**	**Acceleration Distance**	**Acceleration Speed**
R1	194	26.3		
R2	195	24.0		
R3	278	27.3	116	36.3
R4	85	17.7		
R5	82	18.9		
R1<30mph	Yes			

NOTES:

1. *FASTEST PATH ALIGNMENTS BEGIN APPROXIMATELY 165' PRIOR TO ICD*
2. *MEASURED ARCS ALONG PATHS VARY FROM 65'-80' IN LENGTH*
3. *ACCELERATION DISTANCE MEASURED FROM MIDPOINT OF R2 CURVE TO A POINT ON OR NEAR R3 CURVE AT THE EXIT OF ROUNDABOUT AS LABELED*



HORIZONTAL SCALE IN FEET
0 15 30 60

FASTEST PATH EXHIBITS
S.R. 48 SB

WAR-SR48-7.50

MODEL: South Bound Path PAPERSIZE: 34x22 (in.) DATE: 4/17/2026 TIME: 3:56:31 PM USER: Owusu.Poku
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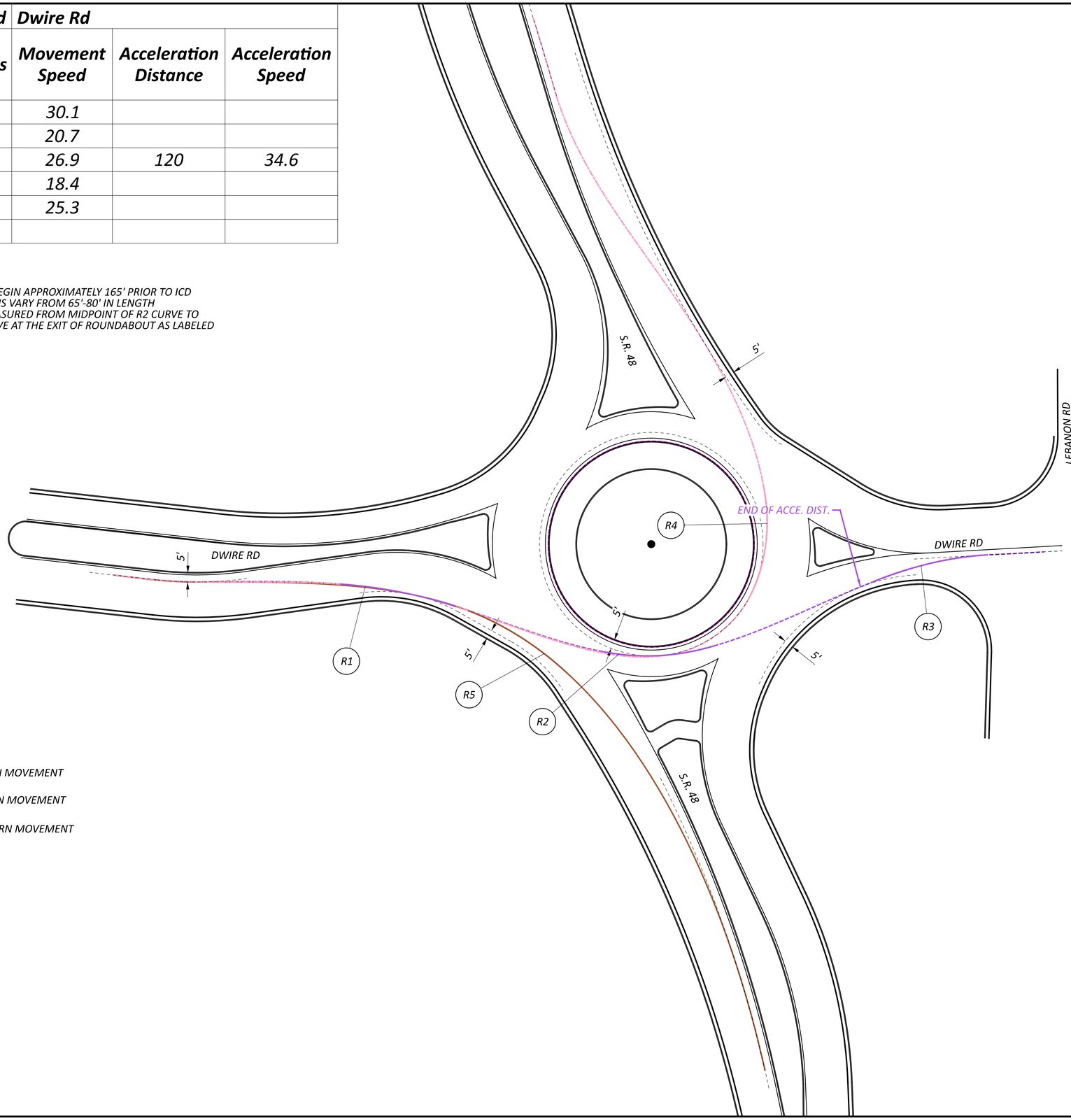
DESIGN AGENCY
Michael Baker INTERNATIONAL

DESIGNER AKA
REVIEWER KMD 04/17/26
PROJECT ID 117567
SHEET P.19 TOTAL P.40

Eestbound		Dwire Rd		
Movement	**Radius**	**Movement Speed**	**Acceleration Distance**	**Acceleration Speed**
R1	274	30.1		
R2	130	20.7		
R3	206	26.9	120	34.6
R4	95	18.4		
R5	176	25.3		
R1<30mph	No			

NOTES:

1. *FASTEST PATH ALIGNMENTS BEGIN APPROXIMATELY 165' PRIOR TO ICD*
2. *MEASURED ARCS ALONG PATHS VARY FROM 65'-80' IN LENGTH*
3. *ACCELERATION DISTANCE MEASURED FROM MIDPOINT OF R2 CURVE TO A POINT ON OR NEAR R3 CURVE AT THE EXIT OF ROUNDABOUT AS LABELED*



HORIZONTAL SCALE IN FEET
0 15 30 60

FASTEST PATH EXHIBITS
DWIRE EB

DESIGN AGENCY
Michael Baker INTERNATIONAL

DESIGNER AKA
REVIEWER KMD 04/17/26
PROJECT ID 117567
SHEET P.20 TOTAL P.40

WAR-SR48-7.50

MODEL: Dwire East Path PAPERSIZE: 34x22 (in.) DATE: 4/17/2026 TIME: 3:57:33 PM USER: Owusu.Poku
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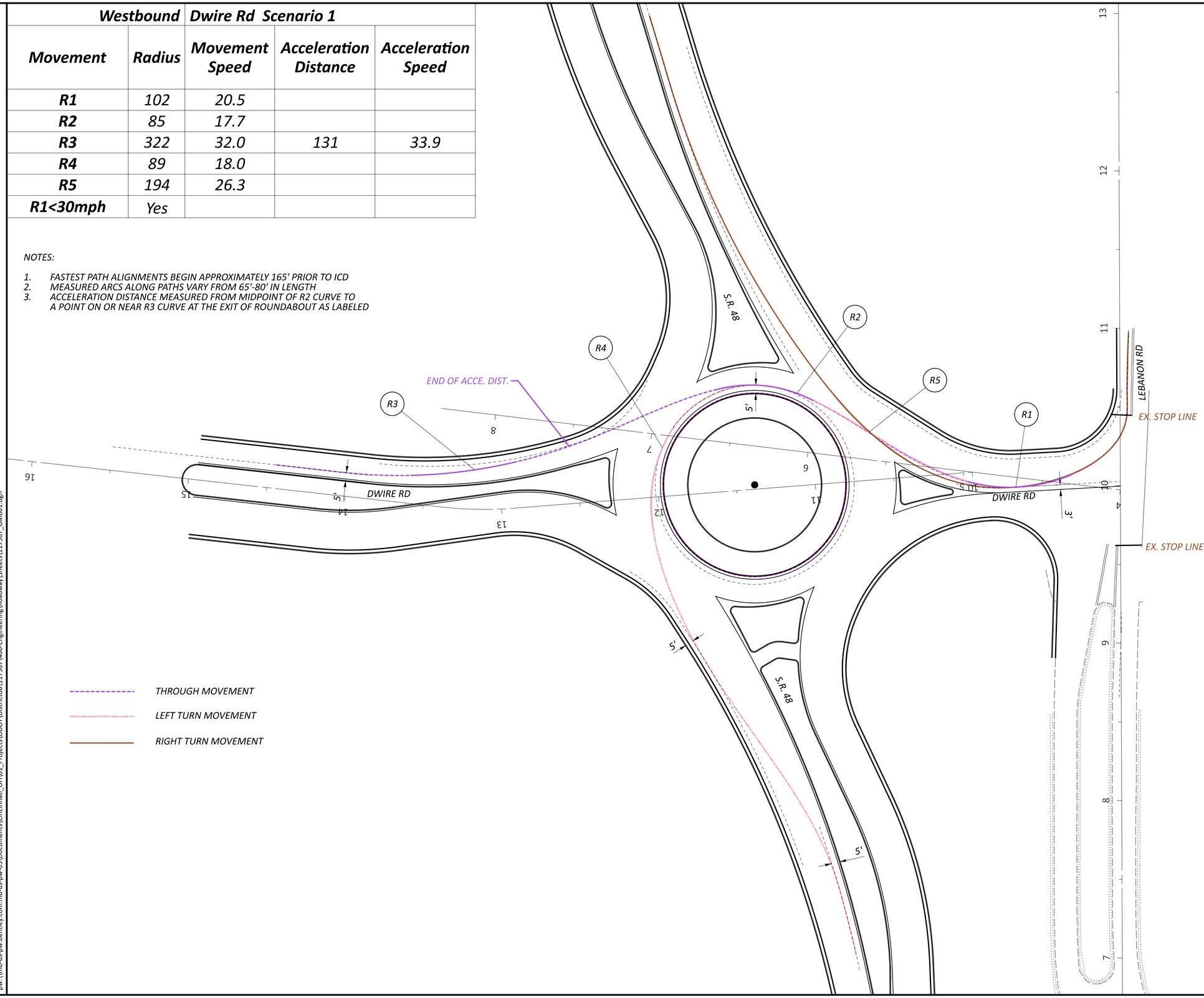
Westbound		Dwire Rd Scenario 1		
Movement	**Radius**	**Movement Speed**	**Acceleration Distance**	**Acceleration Speed**
R1	102	20.5		
R2	85	17.7		
R3	322	32.0	131	33.9
R4	89	18.0		
R5	194	26.3		
R1<30mph	Yes			

NOTES:

1. *FASTEST PATH ALIGNMENTS BEGIN APPROXIMATELY 165' PRIOR TO ICD*
2. *MEASURED ARCS ALONG PATHS VARY FROM 65'-80' IN LENGTH*
3. *ACCELERATION DISTANCE MEASURED FROM MIDPOINT OF R2 CURVE TO A POINT ON OR NEAR R3 CURVE AT THE EXIT OF ROUNDABOUT AS LABELED*



HORIZONTAL SCALE IN FEET
0 15 30 60

FASTEST PATH EXHIBITS
DWIRE WB SCENARIO 1

DESIGN AGENCY
Michael Baker INTERNATIONAL

DESIGNER AKA
REVIEWER KMD 04/17/26
PROJECT ID 117567
SHEET P.21 TOTAL P.40

WAR-SR48-7.50

MODEL: Dwire West Path Scenario 1 PAPERSIZE: 34x22 (in.) DATE: 4/17/2026 TIME: 3:58:48 PM USER: Owusu.Poku
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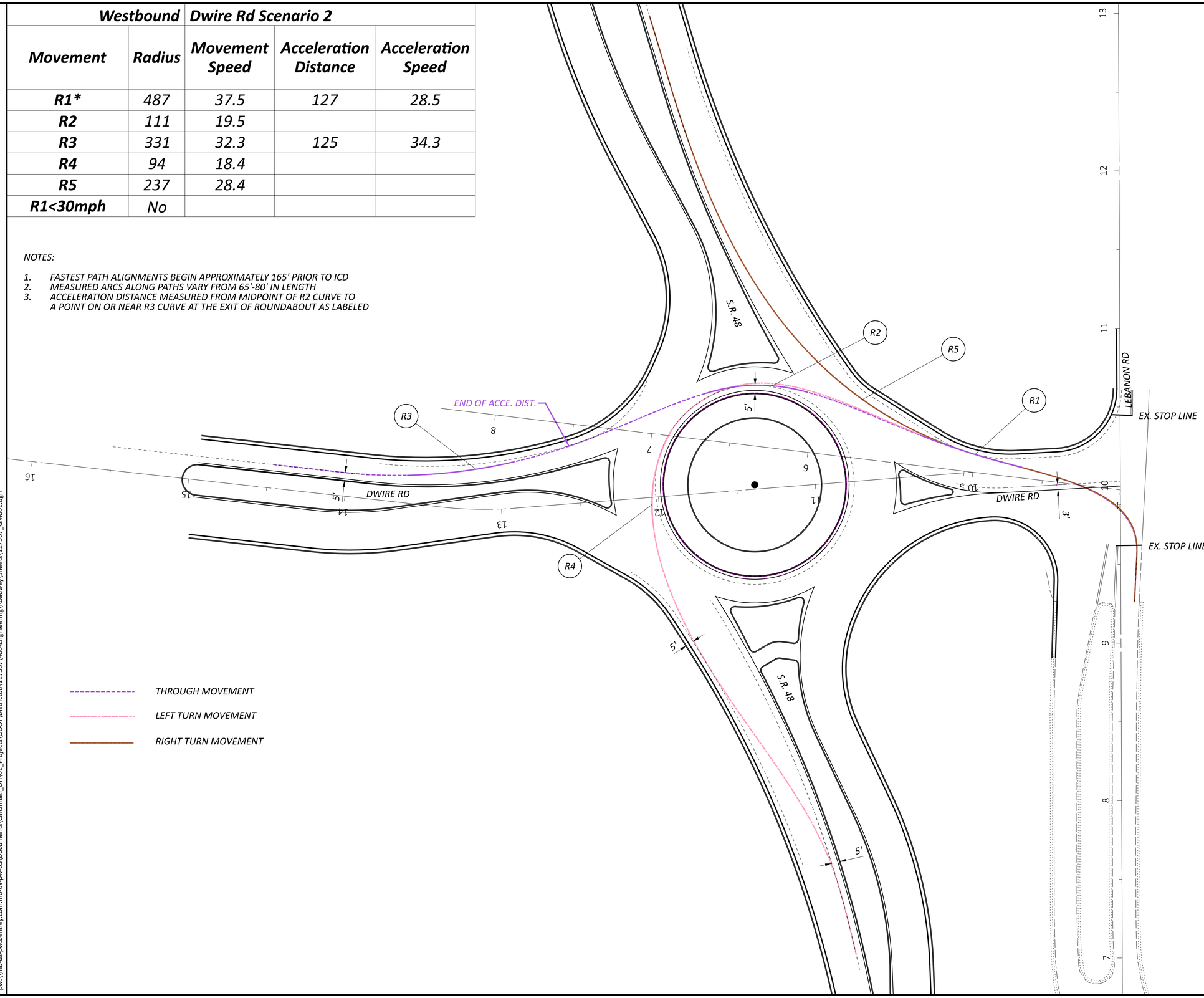
Westbound		Dwire Rd Scenario 2		
Movement	**Radius**	**Movement Speed**	**Acceleration Distance**	**Acceleration Speed**
R1*	487	37.5	127	28.5
R2	111	19.5		
R3	331	32.3	125	34.3
R4	94	18.4		
R5	237	28.4		
R1<30mph	No			

NOTES:

1. *FASTEST PATH ALIGNMENTS BEGIN APPROXIMATELY 165' PRIOR TO ICD*
2. *MEASURED ARCS ALONG PATHS VARY FROM 65'-80' IN LENGTH*
3. *ACCELERATION DISTANCE MEASURED FROM MIDPOINT OF R2 CURVE TO A POINT ON OR NEAR R3 CURVE AT THE EXIT OF ROUNDABOUT AS LABELED*



HORIZONTAL SCALE IN FEET
0 15 30 60

FASTEST PATH EXHIBITS
DWIRE WB SCENARIO 2

DESIGN AGENCY
Michael Baker INTERNATIONAL

DESIGNER AKA
REVIEWER KMD 04/17/26
PROJECT ID 117567
SHEET P.22 TOTAL P.40

WAR-SR48-7.50

MODEL: Dwire West Path Scenario 2 PAPERSIZE: 34x22 (in.) DATE: 4/17/2026 TIME: 3:59:51 PM USER: Owusu.Poku
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HORIZONTAL SCALE IN FEET
0 15 30 60

PHI ANGLES EXHIBITS

DESIGN AGENCY
Michael Baker INTERNATIONAL

DESIGNER
AKA

REVIEWER
KMD 04/17/26

PROJECT ID
117567

SHEET P.23 | TOTAL P.40

WAR-SR48-7.50

MODEL: PHI ANGLES EXHIBIT PAPERSIZE: 34x22 (in.) DATE: 4/17/2026 TIME: 4:00:38 PM USER: Owusu.Poku
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MODEL: CLX_1 - WB-62-SR-48-Thru-Mvnt [Sheet] PAPERSIZE: 34x22 (in.) DATE: 4/17/2026 TIME: 4:08:54 PM USER: Owusu.Poku
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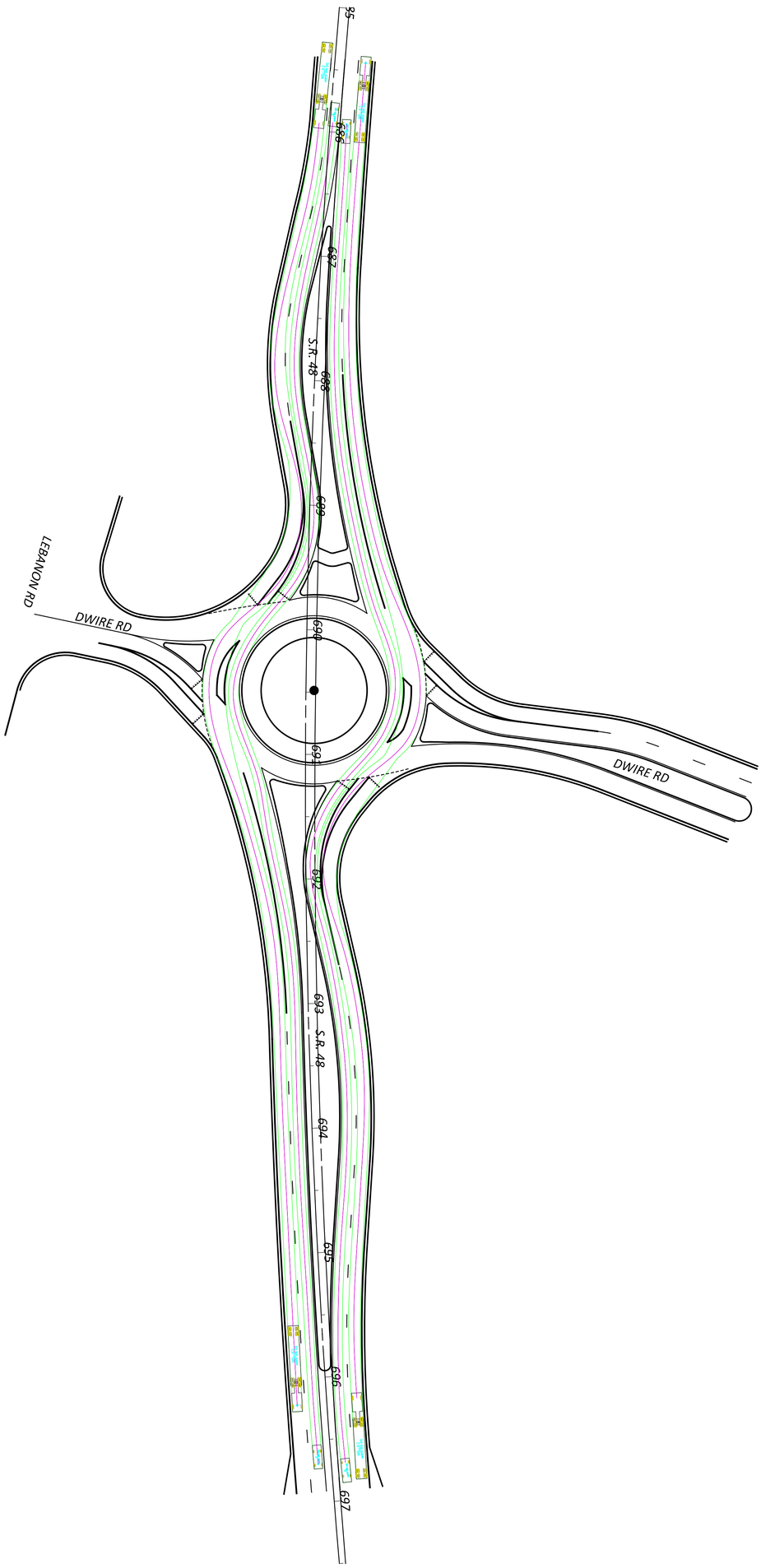

AUTOTURN EXHIBITS (WB-62)
NB AND SB THROUGH MOVEMENTS

HORIZONTAL SCALE IN FEET
0 50
25 100

SHEET	P.24
TOTAL	P.40
PROJECT ID	117567
REVIEWER	KMD 04/17/26
DESIGNER	AKA
DESIGN AGENCY	Michael Baker INTERNATIONAL

MODEL: CLX_1 - WB-62-SR-48-SB-NB-RTTurns [Sheet] PAPERSIZE: 34x22 (in.) DATE: 4/17/2026 TIME: 4:10:00 PM USER: Owusu.Poku
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SHEET P.25 / TOTAL P.40	PROJECT ID 117567	REVIEWER KMD 04/17/26	DESIGNER AKA	Michael Baker INTERNATIONAL	DESIGN AGENCY

AUTOTURN EXHIBITS (WB-62)
NB AND SB RIGHT TRUN MOVEMENTS

HORIZONTAL SCALE IN FEET
0 50
25 100

MODEL: CLX_1 - WB-62-SR-48-NB-SB-Loop [Sheet] PAPERSIZE: 34x22 (in.) DATE: 4/17/2026 TIME: 4:11:17 PM USER: Owusu.Poku
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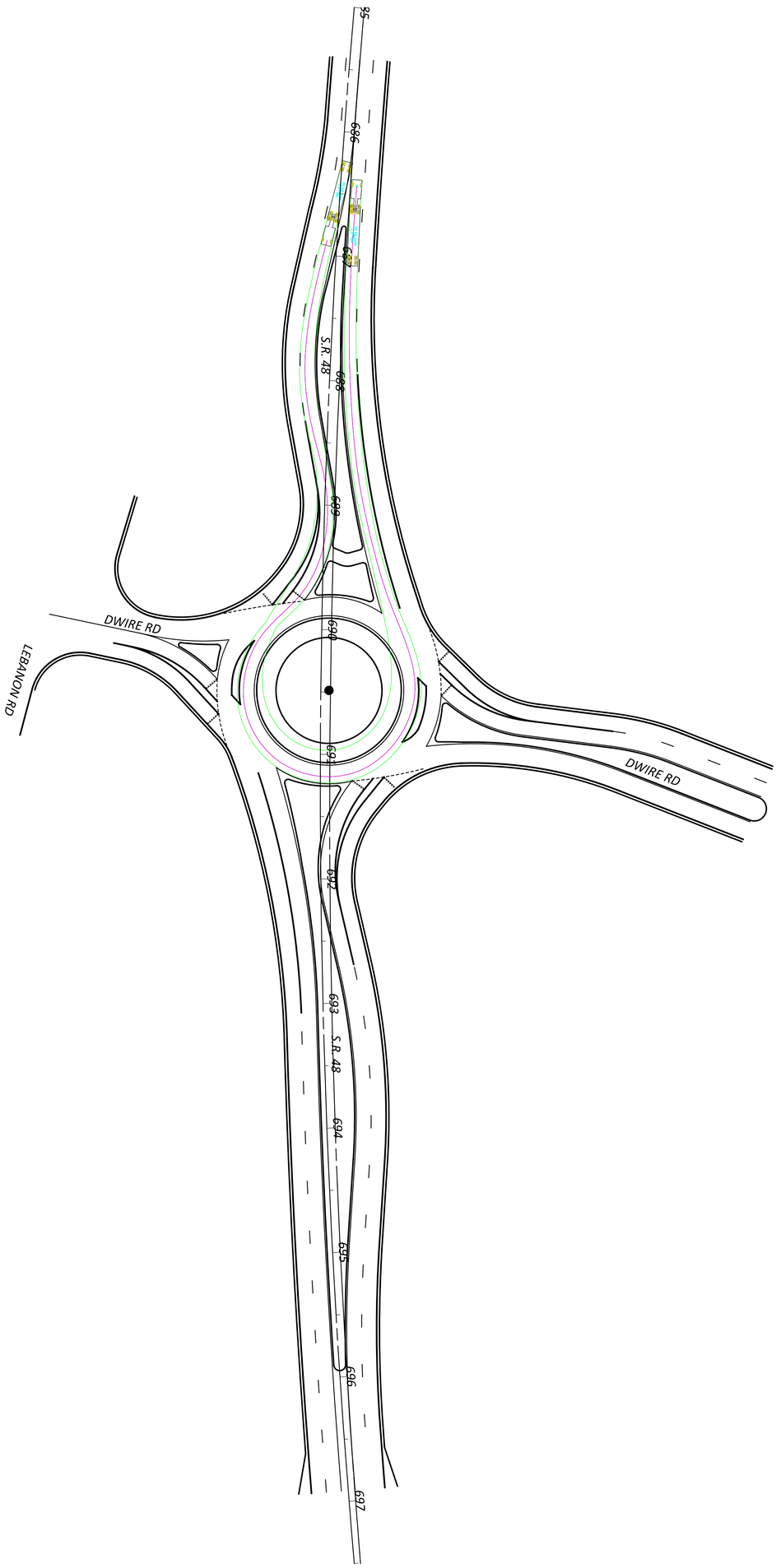

SHEET P.26 | TOTAL P.40	PROJECT ID 117567	REVIEWER KMD 04/17/26	DESIGNER AKA	Michael Baker INTERNATIONAL	DESIGN AGENCY

AUTOTURN EXHIBITS (WB-62)
NB-SB LOOP MOVEMENT

HORIZONTAL SCALE IN FEET
0 50
25 100

MODEL: CLX_2 - WB-62-SR-48-NB-WB [Sheet] PAPERSIZE: 34x22 (in.) DATE: 4/17/2026 TIME: 4:13:03 PM USER: Owusu.Poku
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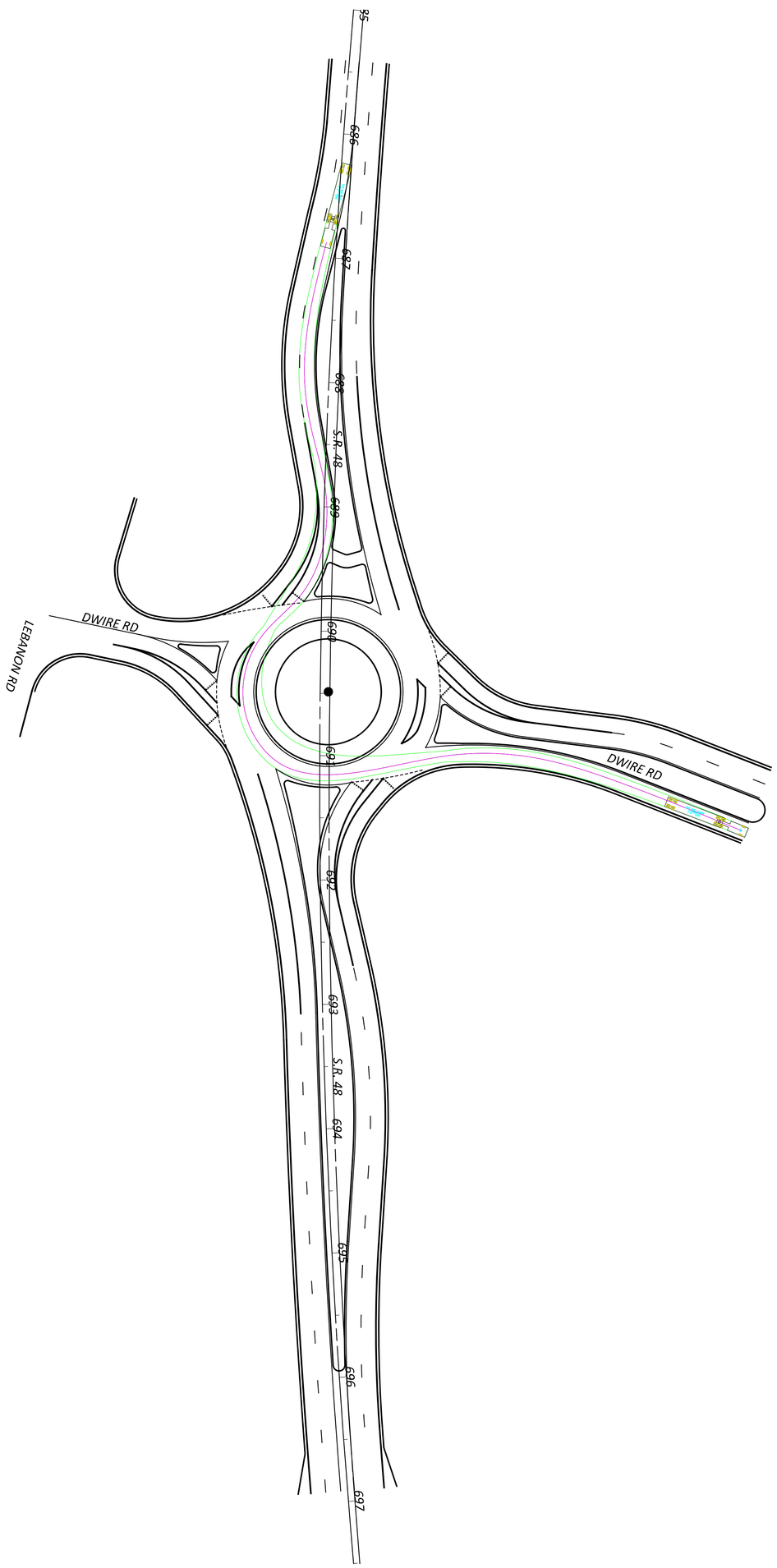

AUTOTURN EXHIBITS (WB-62)
NB LEFT TURN MOVEMENT

SHEET	P.27
TOTAL	P.40
PROJECT ID	117567
REVIEWER	KMD 04/17/26
DESIGNER	AKA
DESIGN AGENCY	Michael Baker INTERNATIONAL

HORIZONTAL SCALE IN FEET
0 50
25 100

MODEL: CLX_1 - WB-62-SR-48-SB-NB-LT-Loop [Sheet] PAPERSIZE: 34x22 (in.) DATE: 4/17/2026 TIME: 4:14:10 PM USER: Owusu.Poku
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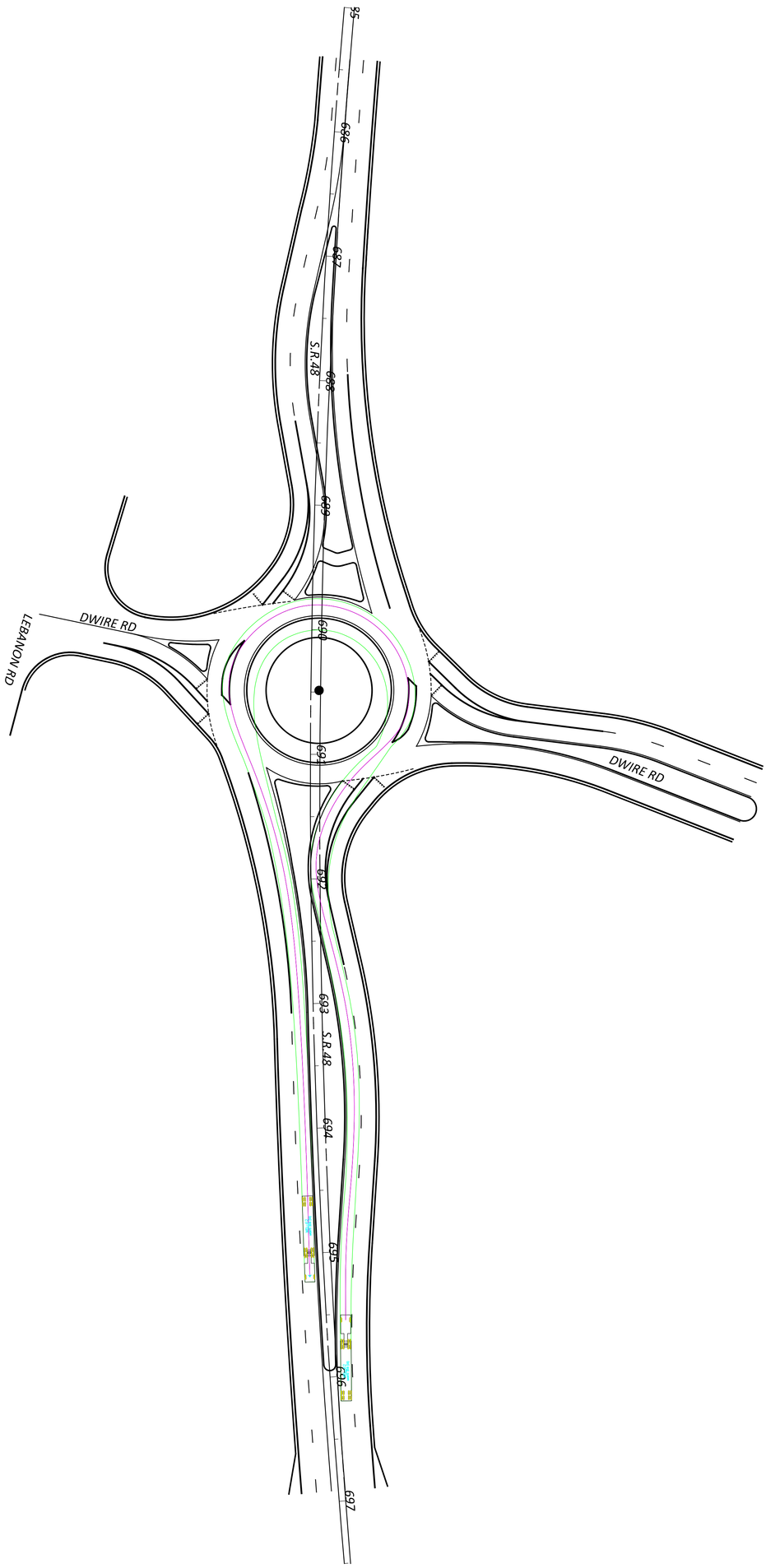

SHEET P.28 | TOTAL P.40	PROJECT ID 117567	REVIEWER KMD 04/17/26	DESIGNER AKA	Michael Baker INTERNATIONAL	DESIGN AGENCY

AUTOTURN EXHIBITS (WB-62)
SB-NB LOOP MOVEMENT

HORIZONTAL SCALE IN FEET
0 50
25 100

MODEL: CLX_1 - WB-62-SR-48-SB-EB-LT [Sheet] PAPERSIZE: 34x22 (in.) DATE: 4/17/2026 TIME: 4:15:27 PM USER: Owusu.Poku
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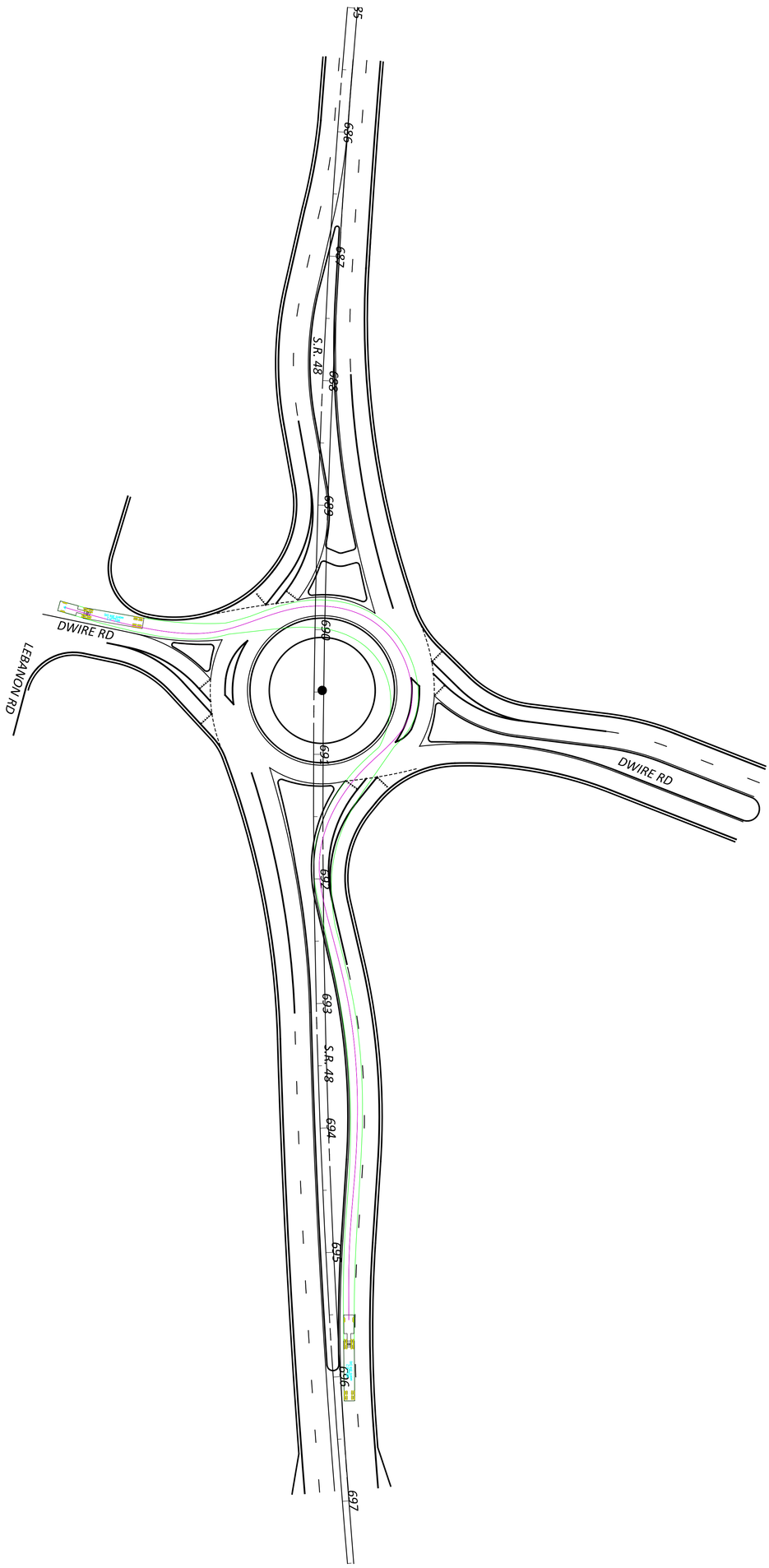

SHEET P.29 | TOTAL P.40	PROJECT ID 117567	REVIEWER KMD 04/17/26	DESIGNER AKA	Michael Baker INTERNATIONAL	DESIGN AGENCY

AUTOTURN EXHIBITS (WB-62)
SB LEFT TURN MOVEMENT

HORIZONTAL SCALE IN FEET
0 50
25 100

AUTOTURN EXHIBITS (WB-62)
EB THROUGH MOVEMENT

HORIZONTAL SCALE IN FEET
0 25 50 100

DESIGN AGENCY
Michael Baker INTERNATIONAL

DESIGNER
AKA

REVIEWER
KMD 04/17/26

PROJECT ID
117567

SHEET P.30 | TOTAL P.40

WAR-SR48-7.50

MODEL: CLX_1 - WB-62-Dwire-WB-EB-Thru [Sheet] PAPERSIZE: 34x22 (in.) DATE: 4/17/2026 TIME: 4:17:13 PM USER: Owusu.Poku
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MODEL: CLX_1 - WB-62-Dwire-EB-WB-Thru [Sheet] PAPERSIZE: 34x22 (in.) DATE: 4/17/2026 TIME: 4:18:08 PM USER: Owusu.Poku
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SHEET P.31 / TOTAL P.40	PROJECT ID 117567	REVIEWER KMD 04/17/26	DESIGNER AKA	Michael Baker INTERNATIONAL	DESIGN AGENCY

AUTOTURN EXHIBITS (WB-62)
WB THROUGH MOVEMENT

HORIZONTAL SCALE IN FEET
0 50
25 100

MODEL: CLX_1 - WB-62-Dwire-EB-WB-RT Turns [Sheet] PAPERSIZE: 34x22 (in.) DATE: 4/17/2026 TIME: 4:19:36 PM USER: Owusu.Poku
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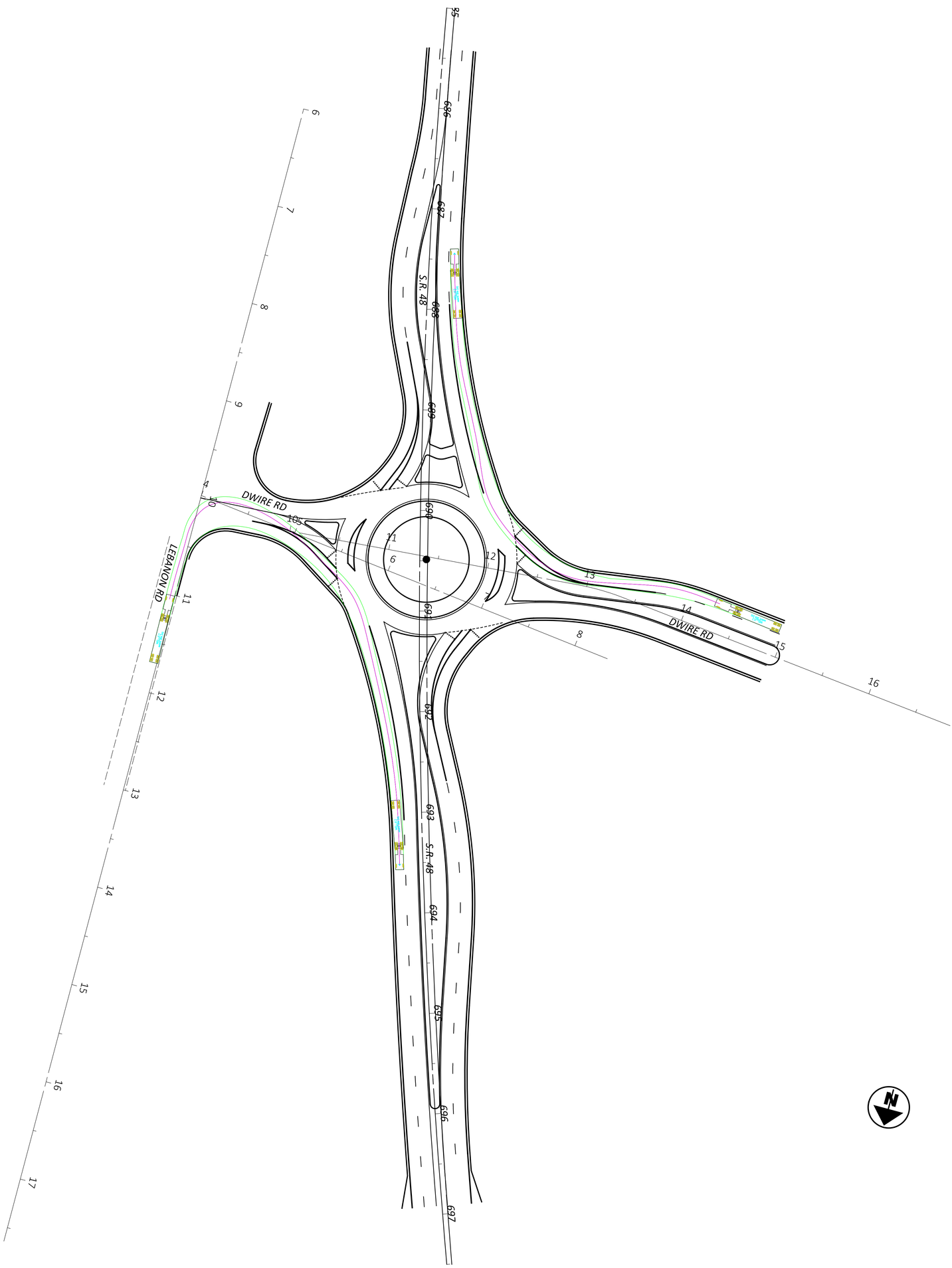

AUTOTURN EXHIBITS (WB-62)
EB AND WB RIGHT TURN MOVEMENT

HORIZONTAL SCALE IN FEET
0 50
25 100

SHEET	P.32
TOTAL	P.40
PROJECT ID	117567
REVIEWER	KMD 04/17/26
DESIGNER	AKA
DESIGN AGENCY	Michael Baker INTERNATIONAL

MODEL: CLX_1 - S-BUS-Dwire-EB-WB-Thru [Sheet] PAPERSIZE: 34x22 (in.) DATE: 4/17/2026 TIME: 4:20:25 PM USER: Owusu.Poku
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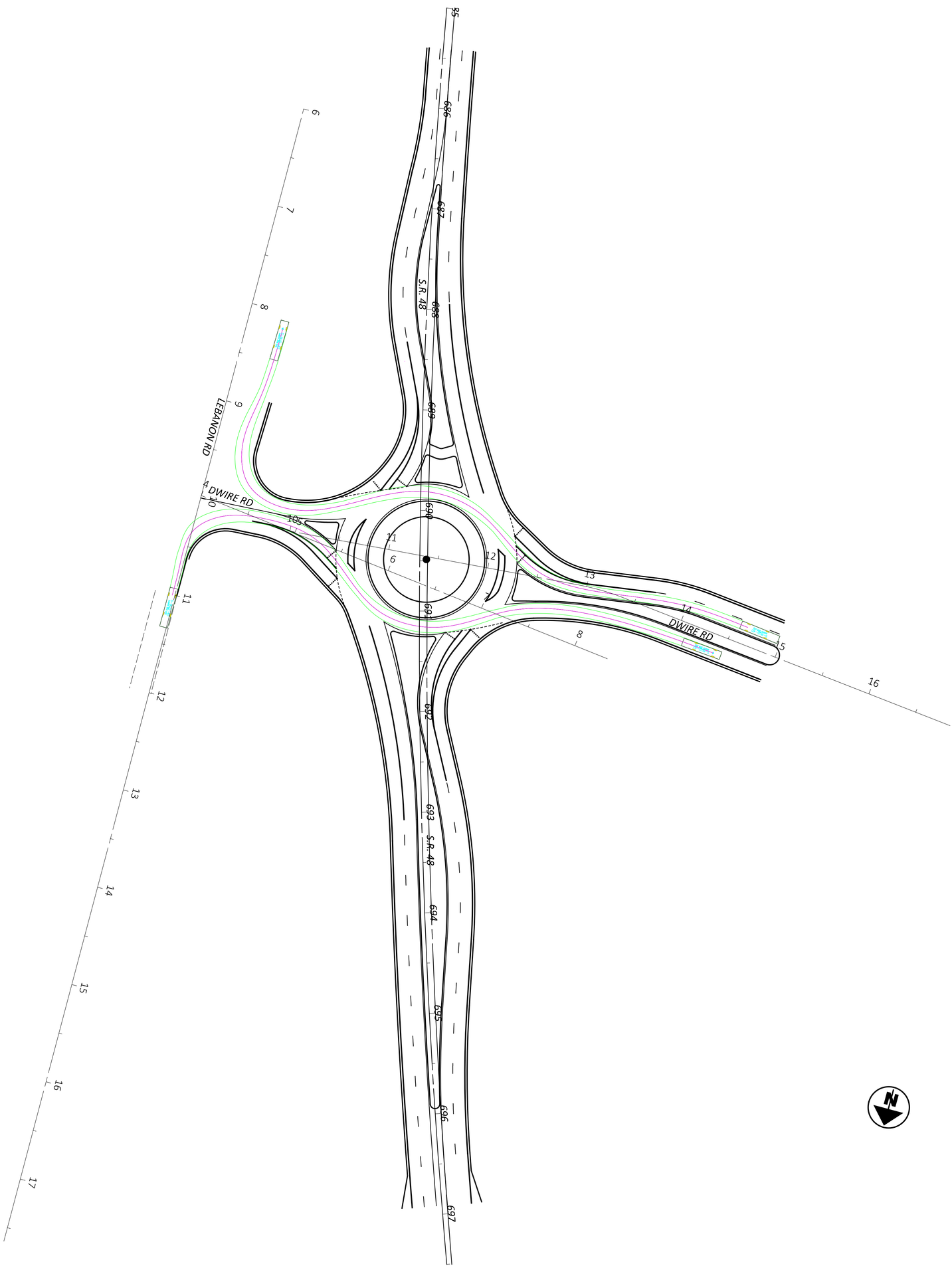

AUTOTURN EXHIBITS (S-BUS)
EB AND WB THROUGH MOVEMENT

HORIZONTAL SCALE IN FEET
0 50
25 100

SHEET	TOTAL
P.33	P.40

PROJECT ID: 117567

REVIEWER: KMD 04/17/26

DESIGNER: AKA

Michael Baker INTERNATIONAL

DESIGN AGENCY

MODEL: CLX_1 - S-BUS-Dwire-EB-WB-RT-TRN [Sheet] PAPERSIZE: 34x22 (in.) DATE: 4/17/2026 TIME: 4:21:28 PM USER: Owusu.Poku
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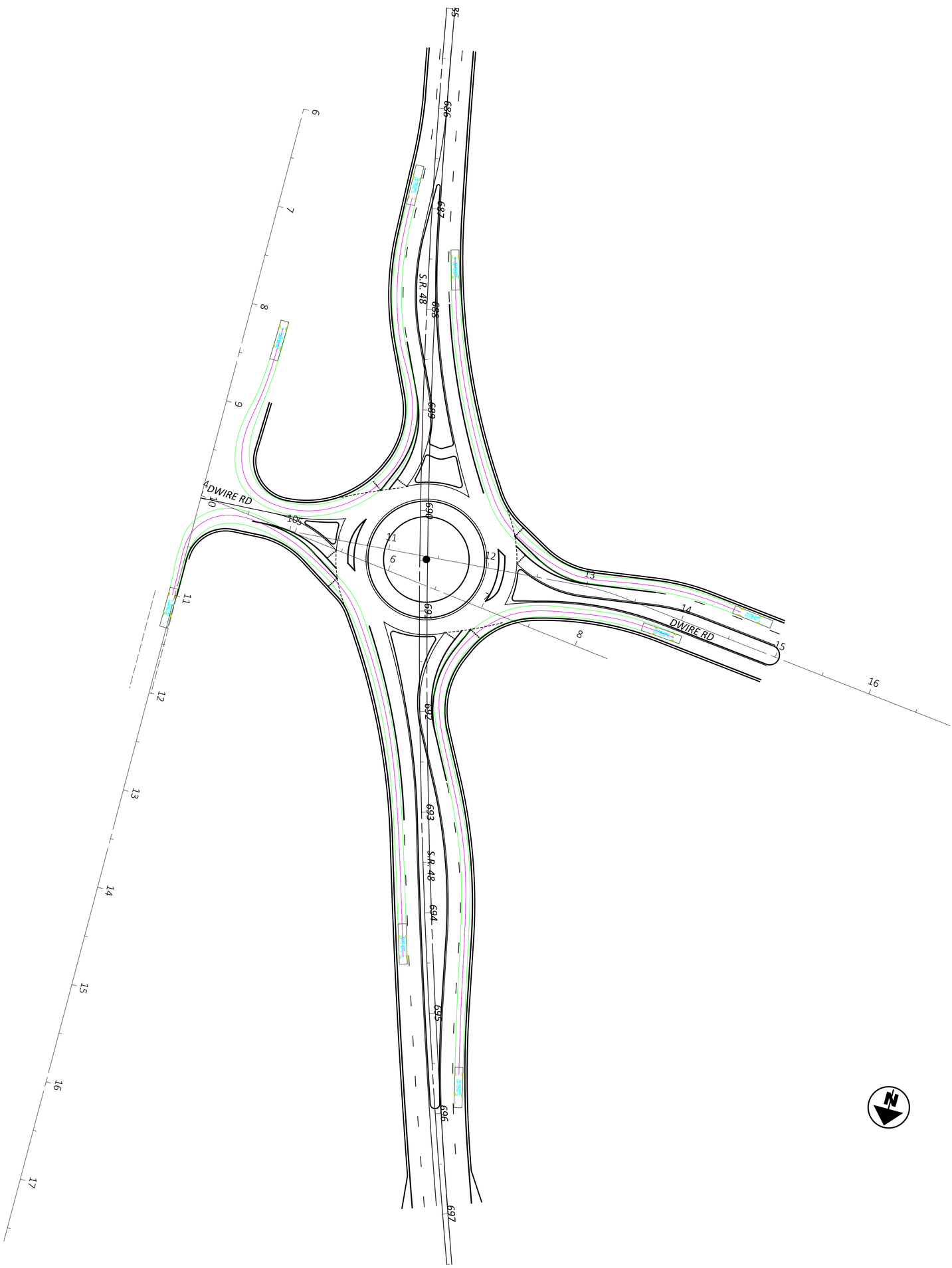

AUTOTURN EXHIBITS (S-BUS)
NB-SB-EB AND WB RIGHT TURN MOVEMENT

DESIGN AGENCY: Michael Baker INTERNATIONAL

DESIGNER: AKA

REVIEWER: KMD 04/17/26

PROJECT ID: 117567

SHEET: P.34 | TOTAL: P.40

HORIZONTAL SCALE IN FEET
0 50
25 100

MODEL: CLX_1 - FireE-SR-48-SB-NB-Dwire-EB-WB-RTTurns [Sheet] PAPERSIZE: 34x22 (in.) DATE: 4/17/2026 TIME: 4:22:19 PM USER: Owusu.Poku
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AUTOTURN EXHIBITS (FIRE)
NB-SB-EB AND WB RIGHT TURN MOVEMENT

SHEET	P.35
TOTAL	P.40
PROJECT ID	117567
REVIEWER	KMD 04/17/26
DESIGNER	AKA
DESIGN AGENCY	Michael Baker INTERNATIONAL

HORIZONTAL SCALE IN FEET
0 50
25 100

WAR-SR48-7.50

MODEL: CLX_1 - FireE-Dwire-EB-WB-Thru [Sheet] PAPERSIZE: 34x22 (in.) DATE: 4/17/2026 TIME: 4:24:22 PM USER: Owusu.Poku
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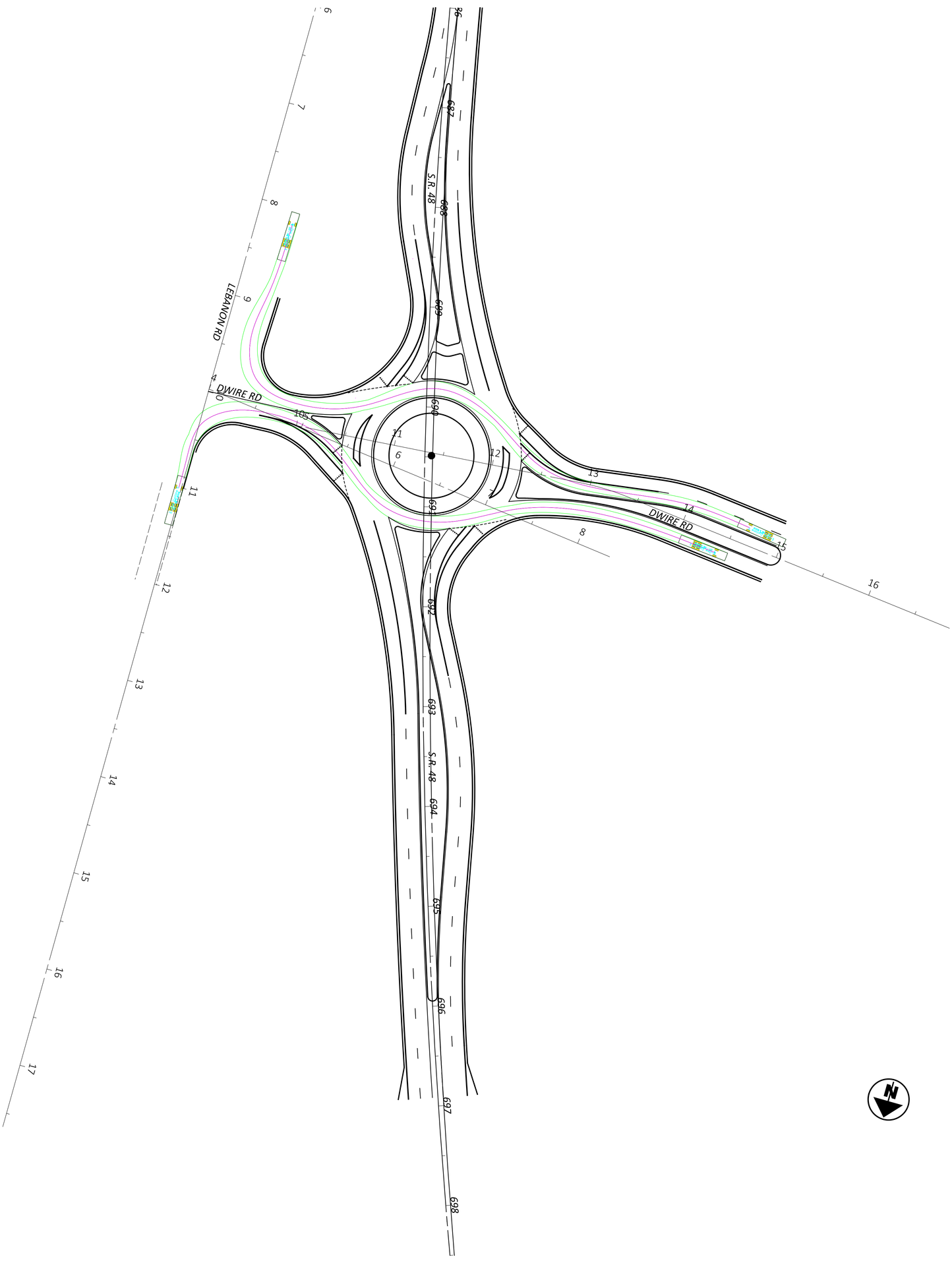
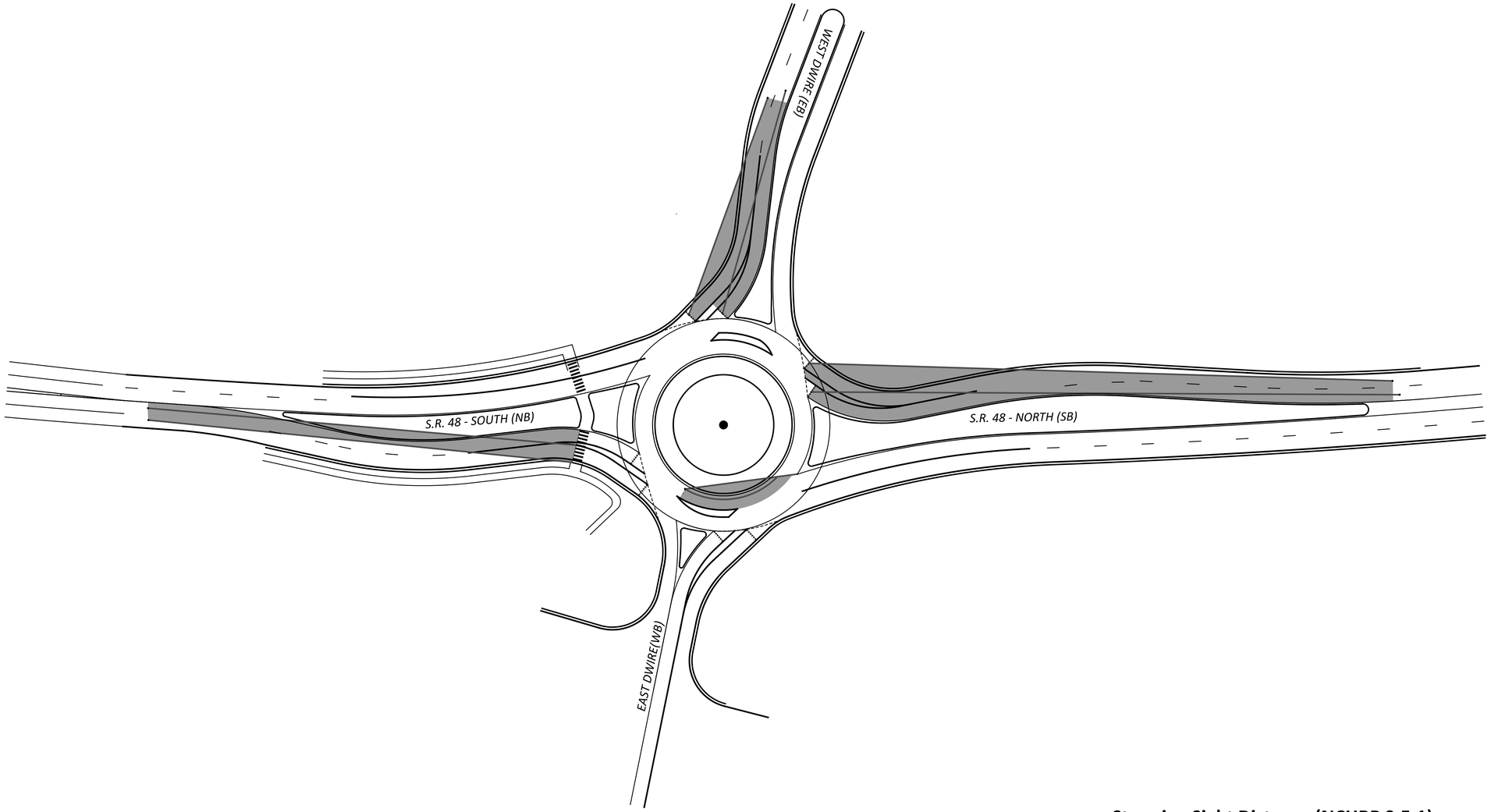


SHEET P.36 / TOTAL P.40	PROJECT ID 117567	REVIEWER KMD 04/17/26	DESIGNER AKA	Michael Baker INTERNATIONAL	DESIGN AGENCY

AUTOTURN EXHIBITS (FIRE)
EB AND WB THROUGH MOVEMENTS

HORIZONTAL SCALE IN FEET
0 50
25 100



Stopping Sight Distance (NCHRP 9.5.1)

Direction	V	d (feet)
West Dewire(EB)	30	200
North Dewire(SB)	55	495
South Dewire(NB)	45	360
East Dewire(WB)	30	200
CrossWalk Exit (SD)	25	155

Note: Stopping sight distance "d" is measure along the vehicles traveled path in respective lanes.

HORIZONTAL SCALE IN FEET
0 10 20 40

STOPPING SIGHT DISTANCE EXHIBIT

DESIGN AGENCY
Michael Baker INTERNATIONAL

DESIGNER AKA
REVIEWER KMD 04/17/26
PROJECT ID 117567
SHEET P.37 TOTAL P.40

WAR-SR48-7.50

MODEL: SR 48 - SSD PAPERSIZE: 34x22 (in.) DATE: 4/17/2026 TIME: 3:42:52 PM USER: Owusu.Poku
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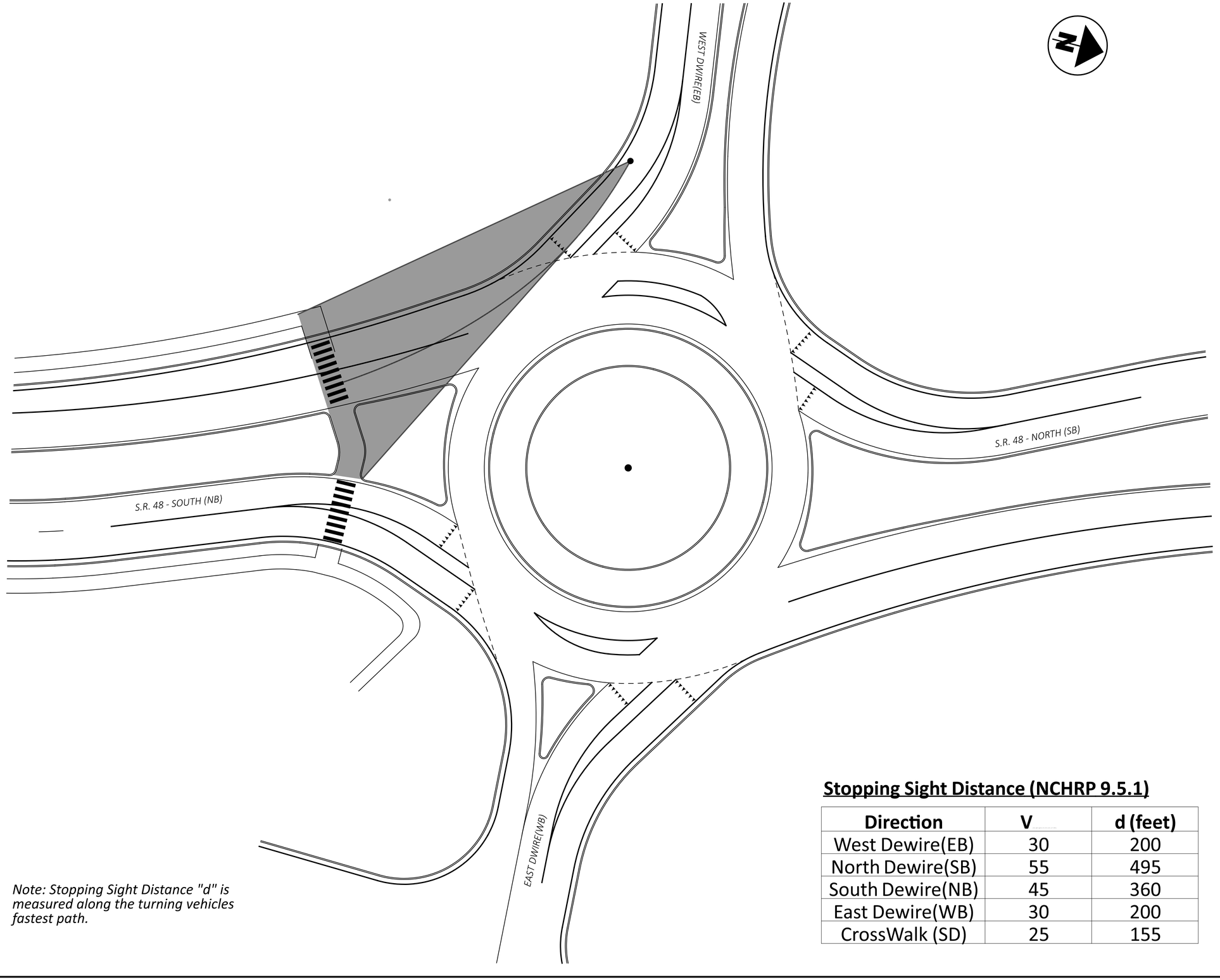

Note: Stopping Sight Distance "d" is measured along the turning vehicles fastest path.

Stopping Sight Distance (NCHRP 9.5.1)

Direction	V	d (feet)
West Dewire(EB)	30	200
North Dewire(SB)	55	495
South Dewire(NB)	45	360
East Dewire(WB)	30	200
CrossWalk (SD)	25	155

HORIZONTAL SCALE IN FEET
0 10 20 40

CROSSWALK SIGHT DISTANCE EXHIBIT

DESIGN AGENCY
Michael Baker INTERNATIONAL

DESIGNER AKA
REVIEWER KMD 04/17/26
PROJECT ID 117567
SHEET P.38 TOTAL P.40

WAR-SR48-7.50

MODEL: SR 48 - CROSSWALK SD PAPERSIZE: 34x22 (in.) DATE: 4/17/2026 TIME: 3:42:58 PM USER: Owusu.Poku
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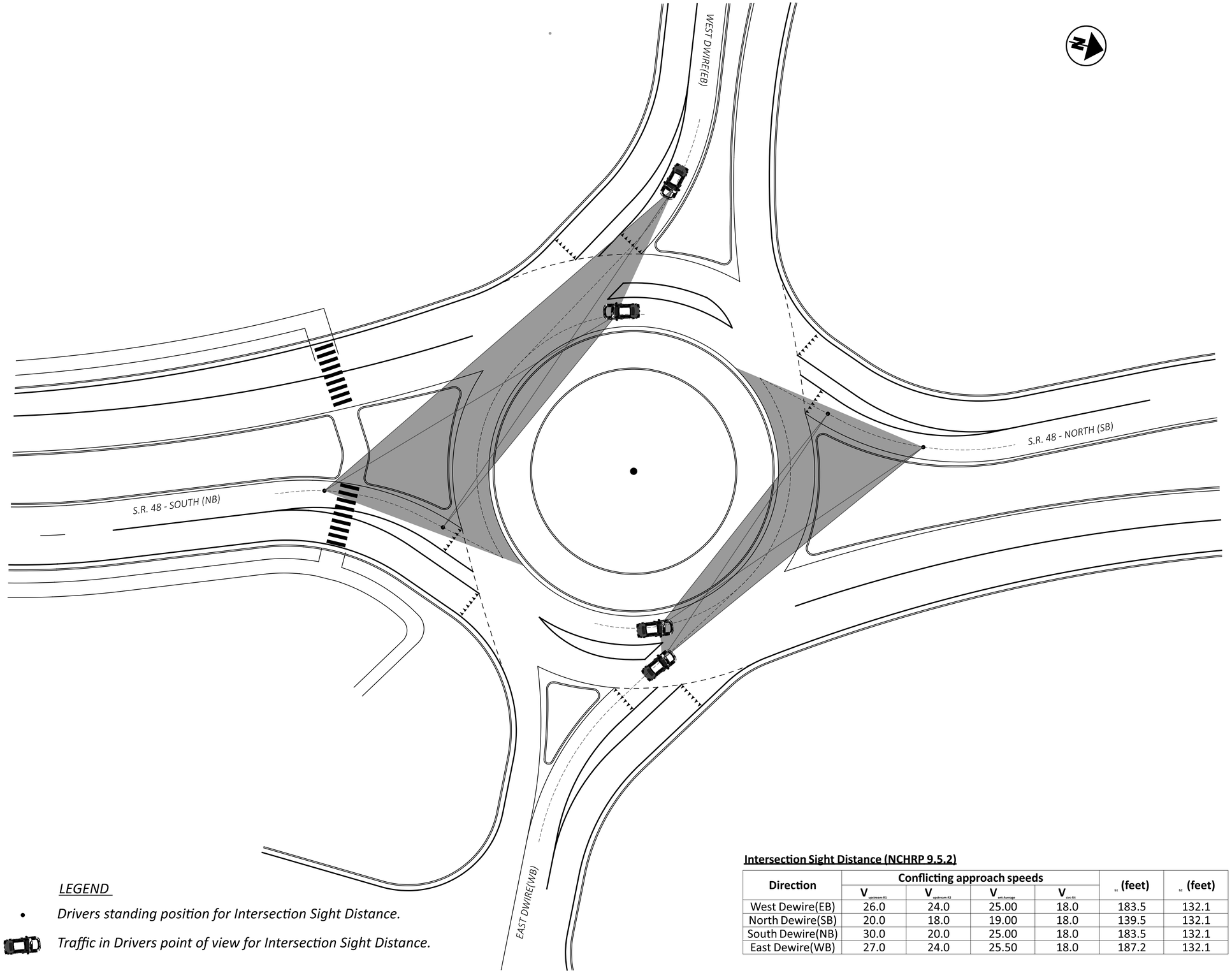

LEGEND

- *Drivers standing position for Intersection Sight Distance.*
- *Traffic in Drivers point of view for Intersection Sight Distance.*

Intersection Sight Distance (NCHRP 9.5.2)

Direction	Conflicting approach speeds				t_1 (feet)	t_2 (feet)
	$V_{major,R1}$	$V_{major,R2}$	$V_{int.Average}$	$V_{stp,R4}$		
West Dewire(EB)	26.0	24.0	25.00	18.0	183.5	132.1
North Dewire(SB)	20.0	18.0	19.00	18.0	139.5	132.1
South Dewire(NB)	30.0	20.0	25.00	18.0	183.5	132.1
East Dewire(WB)	27.0	24.0	25.50	18.0	187.2	132.1

HORIZONTAL SCALE IN FEET
0 10 20 40

INTERSECTION SIGHT DISTANCE EXHIBIT

DESIGN AGENCY
Michael Baker INTERNATIONAL

DESIGNER AKA
REVIEWER KMD 04/17/26
PROJECT ID 117567
SHEET P.39 TOTAL P.40

WAR-SR48-7.50

MODEL: SR 48 - ISD PAPERSIZE: 34x22 (in.) DATE: 4/17/2026 TIME: 3:43:15 PM USER: Owusu.Poku
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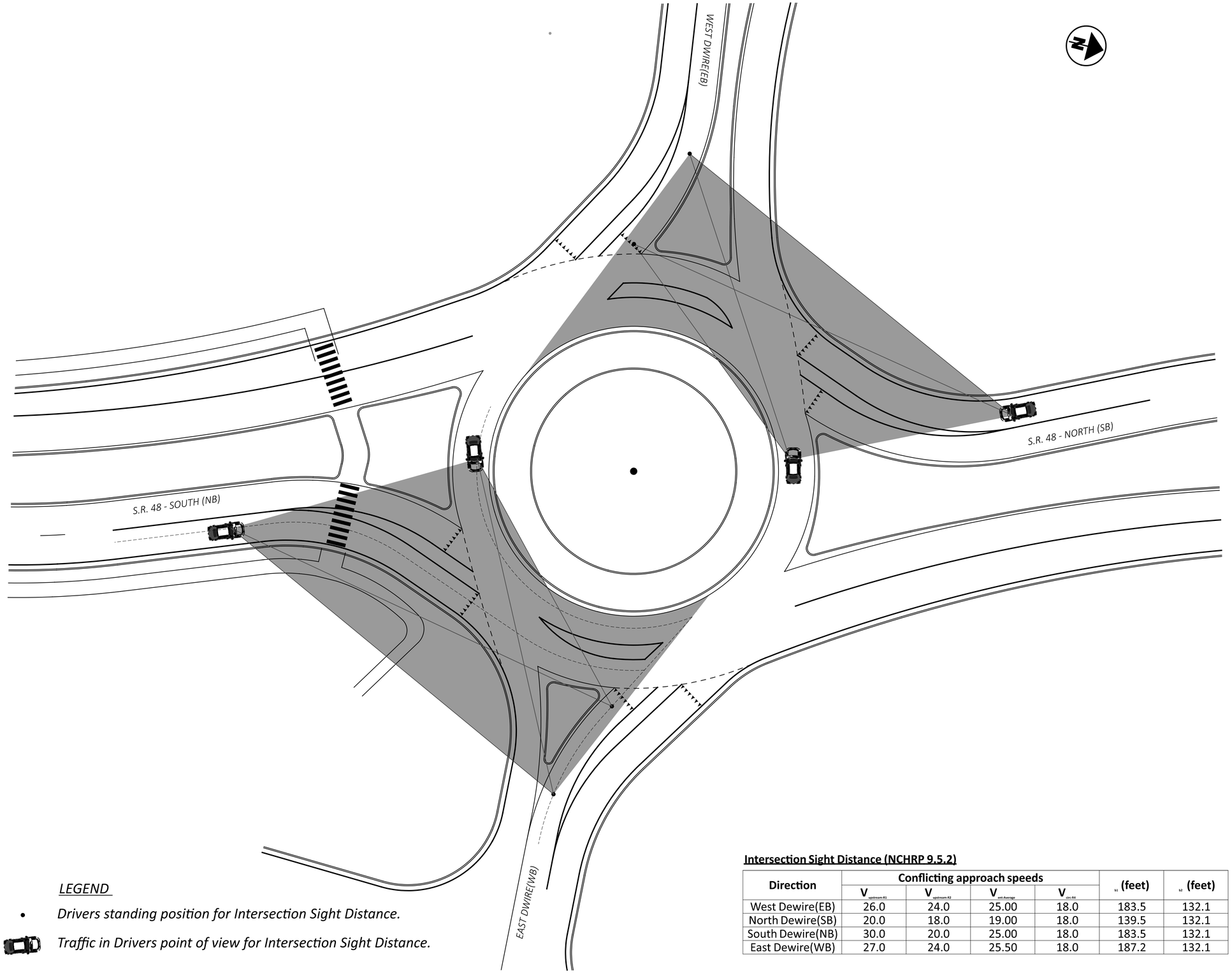

LEGEND

- *Drivers standing position for Intersection Sight Distance.*
- *Traffic in Drivers point of view for Intersection Sight Distance.*

Intersection Sight Distance (NCHRP 9.5.2)

Direction	Conflicting approach speeds				t_1 (feet)	t_2 (feet)
	$V_{upstream-R1}$	$V_{upstream-R2}$	$V_{unt-Average}$	$V_{circ-R4}$		
West Dewire(EB)	26.0	24.0	25.00	18.0	183.5	132.1
North Dewire(SB)	20.0	18.0	19.00	18.0	139.5	132.1
South Dewire(NB)	30.0	20.0	25.00	18.0	183.5	132.1
East Dewire(WB)	27.0	24.0	25.50	18.0	187.2	132.1

HORIZONTAL SCALE IN FEET
0 10 20 40

INTERSECTION SIGHT DISTANCE EXHIBIT

DESIGN AGENCY
Michael Baker INTERNATIONAL

DESIGNER AKA
REVIEWER KMD 04/17/26
PROJECT ID 117567
SHEET P.40 TOTAL P.40

WAR-SR48-7.50

MODEL: SR 48 - ISD PAPERSIZE: 34x22 (in.) DATE: 4/17/2026 TIME: 3:43:03 PM USER: Owusu.Poku
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