WKE

PROJECT ID: 3180-00-78

WITH:

COUNTY: RACINE COUNTY

APRIL 2025

ORDER OF SHEETS

TOTAL SHEETS = 154

STATE PROJECT	FEDERAL PROJECT	
	PROJECT	CONTRACT
3180-00-78		

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

PLAN OF PROPOSED IMPROVEMENT

STH 11/STH 36 RAMPS

RACINE CO LINE TO STH 36/CTH Q I/C

VAR HWY
RACINE COUNTY

STATE PROJECT NUMBER
3180-00-78

N

BEGIN PROJECT
STA 40+39
Y = 161737.672
X = 503889.379

BEGIN CONSTRUCTION
STA 10+36

BEGIN CONSTRUCTION
STA 180+35

END CONSTRUCTION
STA 207+41

END PROJECT
STA 215+12

NET EXCEPTION TO CL LENGTH
STA 202+86 - STA 208+18

END CONSTRUCTION
STA 203+75

END CONSTRUCTION
STA 57+25

END CONSTRUCTION
STA 80+70

BEGIN CONSTRUCTION
STA 71+24

BEGIN CONSTRUCTION
STA 50+24

END CONSTRUCTION
STA 59+66

END CONSTRUCTION
STA 49+76

END CONSTRUCTION
STA 50+94

BEGIN CONSTRUCTION
STA 39+89

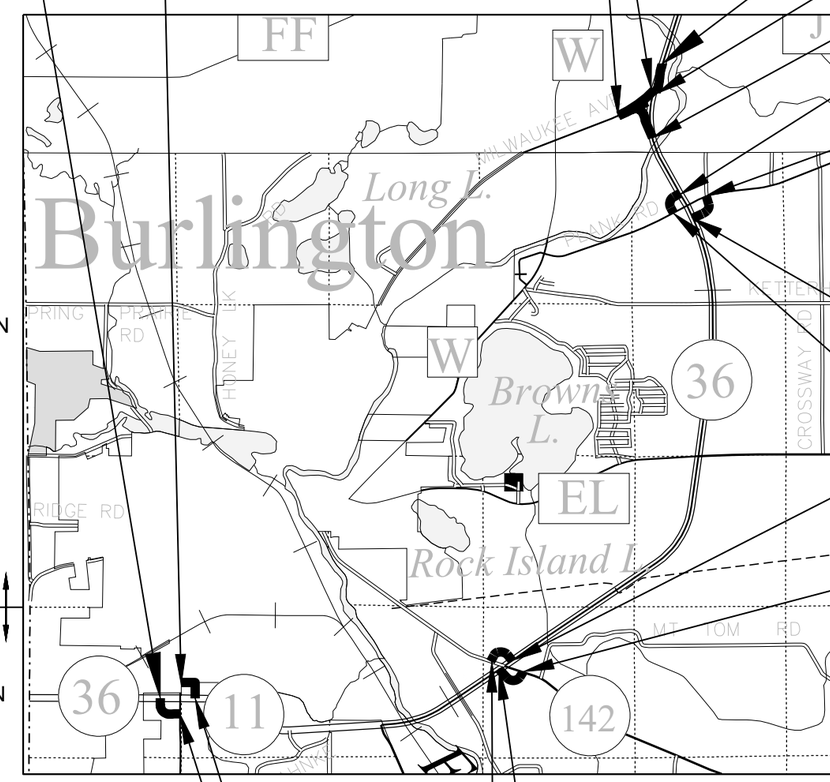
END CONSTRUCTION
STA 49+66

BEGIN CONSTRUCTION
STA 50+24

R-19-E

T-3-N

T-2-N



LAYOUT

SCALE 0 1 MI

TOTAL NET LENGTH OF CENTERLINE = 0.816

DESIGN DESIGNATION			SB RAMP	NB RAMP	NB TO SB RAMP	CTH A RAMP	STH 142 RAMP	CTH P RAMP
A.A.D.T.	2025	=	4200	4100	350	825	2240	2240
A.A.D.T.	2045	=	4700	4600	400	895	2440	2440
D.H.V.		=	569	557	120	171	272	272
D.D.		=	N/A	N/A	N/A	N/A	N/A	N/A
T.		=	4.46%	4.46%	4.46%	19.9%	19.9%	19.9%
DESIGN SPEED		=	55 MPH	20-50 MPH	20-50 MPH	10-25 MPH	10-25 MPH	15-25 MPH
ESALS		=	720,000	700,000	66,000	660,000	1,900,000	1,900,000

CONVENTIONAL SYMBOLS

PLAN
- CORPORATE LIMITS
- PROPERTY LINE
- LOT LINE
- LIMITED HIGHWAY EASEMENT
- EXISTING RIGHT OF WAY
- PROPOSED OR NEW R/W LINE
- SLOPE INTERCEPT
- REFERENCE LINE (300'EB')
- EXISTING CULVERT
- PROPOSED CULVERT (Box or Pipe)
- COMBUSTIBLE FLUIDS (CAUTION)
- MARSH AREA
- WOODED OR SHRUB AREA

PROFILE
- GRADE LINE
- ORIGINAL GROUND
- MARSH OR ROCK PROFILE (To be noted as such) (ROCK)
- SPECIAL DITCH (LABEL)
- GRADE ELEVATION (95.36)
- CULVERT (Profile View)

UTILITIES
- ELECTRIC (E)
- FIBER OPTIC (FO)
- GAS (G)
- SANITARY SEWER (SAN)
- STORM SEWER (SS)
- TELEPHONE (T)
- WATER (W)
- UTILITY PEDESTAL
- POWER POLE
- TELEPHONE POLE

HORIZONTAL POSITIONS SHOWN ON THIS PLAN ARE WISCONSIN COORDINATE REFERENCE SYSTEM (WISCRS), RACINE COUNTY, NAD83 (2011), IN U.S. SURVEY FEET. POSITIONS SHOWN ARE GRID COORDINATES, GRID BEARINGS, AND GRID DISTANCES. GRID DISTANCES ARE THE SAME AS GROUND DISTANCES.

ELEVATIONS ARE REFERENCED TO NAVD 88 (2012). GPS DERIVED ELEVATIONS ARE BASED ON GEOID 12A

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

PREPARED BY

Surveyor	AYRES
Designer	RONNIE HAYNES
Project Manager	JUSTIN SUYDAM
Regional Examiner	REGIONAL EXAMINER
Regional Supervisor	JANET CANNON

APPROVED FOR THE DEPARTMENT

DATE: 11/01/2024 Justin W Suydam

E

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UTILITIES CONTACTS

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SPECTRUM
COMMUNICATION LINE
JAY CHAPMAN
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MILWAUKEE, WI 53212
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ATC MANAGEMENT, INC.
ELECTRICITY-TRANSMISSION
CHRIS DAILEY
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WE ENERGIES
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SEWER
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TDS TELECOM
COMMUNICATION LINE
DAVE HUWE
525 JUNCTION ROAD
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TDS METROCOM LLC
COMMUNICATION LINE
BOB PULDA
525 JUNCTION ROAD
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MIDWEST FIBER NETWORKS LLC
COMMUNICATION LINE
CORY SCHMUKI
6070 NORTH FLINT ROAD
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WIDOT CONTACTS

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WISCONSIN DNR LIAISON

CRAIG WEBSTER
SE REGION
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GENERAL NOTES

THE LOCATIONS OF EXISTING AND PROPOSED UTILITY INSTALLATIONS AS SHOWN ON THE PLANS ARE APPROXIMATE. THERE MAY BE OTHER UTILITY INSTALLATIONS WITHIN THE PROJECT AREA THAT ARE NOT SHOWN.

CONTRACTOR WILL BE RESPONSIBLE FOR RESHAPING AND SEEDING ANY PREVIOUSLY GRASSED AREAS WHICH ARE DISTURBED BY OPERATIONS, OUTSIDE OF THE NORMAL CONSTRUCTION LIMITS.

NO TREES OR SHRUBS ARE TO BE REMOVED WITHOUT THE APPROVAL OF THE ENGINEER.

THE CONTRACTOR IS TO WORK WITH UTMOST CARE AND PROTECT ALL SURVEY MARKERS. REMOVAL OF ANY SURVEY MARKER IS TO BE WITH THE APPROVAL OF THE ENGINEER.

EROSION CONTROL FEATURES AS SHOWN IN THE PLANS ARE AT APPROXIMATE LOCATIONS. EXACT LOCATIONS WILL BE DETERMINED BY THE CONTRACTOR'S EROSION CONTROL IMPLEMENTATION PLAN (ECIP) AND APPROVED BY THE ENGINEER. MAINTAIN EROSION CONTROL MEASURES UNTIL SUCH A TIME AS THE ENGINEER DETERMINES THE MEASURE IS NO LONGER NECESSARY.

PAVEMENT REMOVAL WILL BE TO THE NEAREST JOINT OR A SAWED EDGE WILL BE REQUIRED AS DIRECTED BY THE ENGINEER.

ANY REINFORCEMENT LOCATED IN EXISTING CONCRETE PAVEMENT SHALL BE CONSIDERED INCIDENTAL TO THE REMOVING PAVEMENT ITEM, AND NO ADDITIONAL COMPENSATION WILL BE GRANTED.

THE PROPOSED SHOULDER WIDTH SHOWN IN THE TYPICAL SECTIONS ARE MINIMUM WIDTH. PERPETUATE EXISTING SHOULDERS THAT ARE WIDER THAN WHAT IS SHOWN IN THE TYPICAL SECTIONS.

THE CONTRACTOR'S PAVING OPERATION SHALL BE CONSISTENT WITH THE TYPICAL SECTIONS AND CONSTRUCTED TO PREVENT LONGITUDINAL JOINTS FROM BEING LOCATED WITHIN A DRIVING, TURNING, PASSING, OR PARKING LANE.

SAWCUTS, AS SHOWN ON THE PLANS, ARE SUGGESTED LOCATIONS AND MAY BE ADJUSTED AT THE DISCRETION OF THE ENGINEER TO BETTER SUIT FIELD CONDITIONS.

TRAFFIC CONTROL DEVICES SHALL BE ADJUSTED TO FIT FIELD CONDITIONS AS DIRECTED BY THE ENGINEER.

DO NOT DRIVE OR STORE EQUIPMENT, OR STORE CONSTRUCTION MATERIALS IN ENVIRONMENTALLY SENSITIVE AREAS, WETLANDS OR WATERWAYS.

CONTRACTOR TO STORE MATERIAL AND EQUIPMENT IN LOCATIONS APPROVED BY ENGINEER.

CONTACT THE PROJECT ENGINEER AND THE SOUTHEASTERN WISCONSIN REGIONAL PLANNING COMMISSION (SEWRPC), AT LEAST TWO WEEKS PRIOR TO WORK NEAR ANY PUBLIC SURVEY MONUMENT.

2

NOT A UTILITY - FOR INFORMATION ONLY

RACINE COUNTY
ENGINEERING MANAGER
CHRISTOPHER GALLAGHER
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MEDIX AMBULANCE SERVICE
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CITY OF BURLINGTON
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SEWRPC (CONSTRUCTION COORDINATOR)
ANDY TRAEGER
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CITY OF BURLINGTON
FIRE CHIEF
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DIGGERS HOTLINE
Dial 811 or (800)242-8511
www.DiggersHotline.com

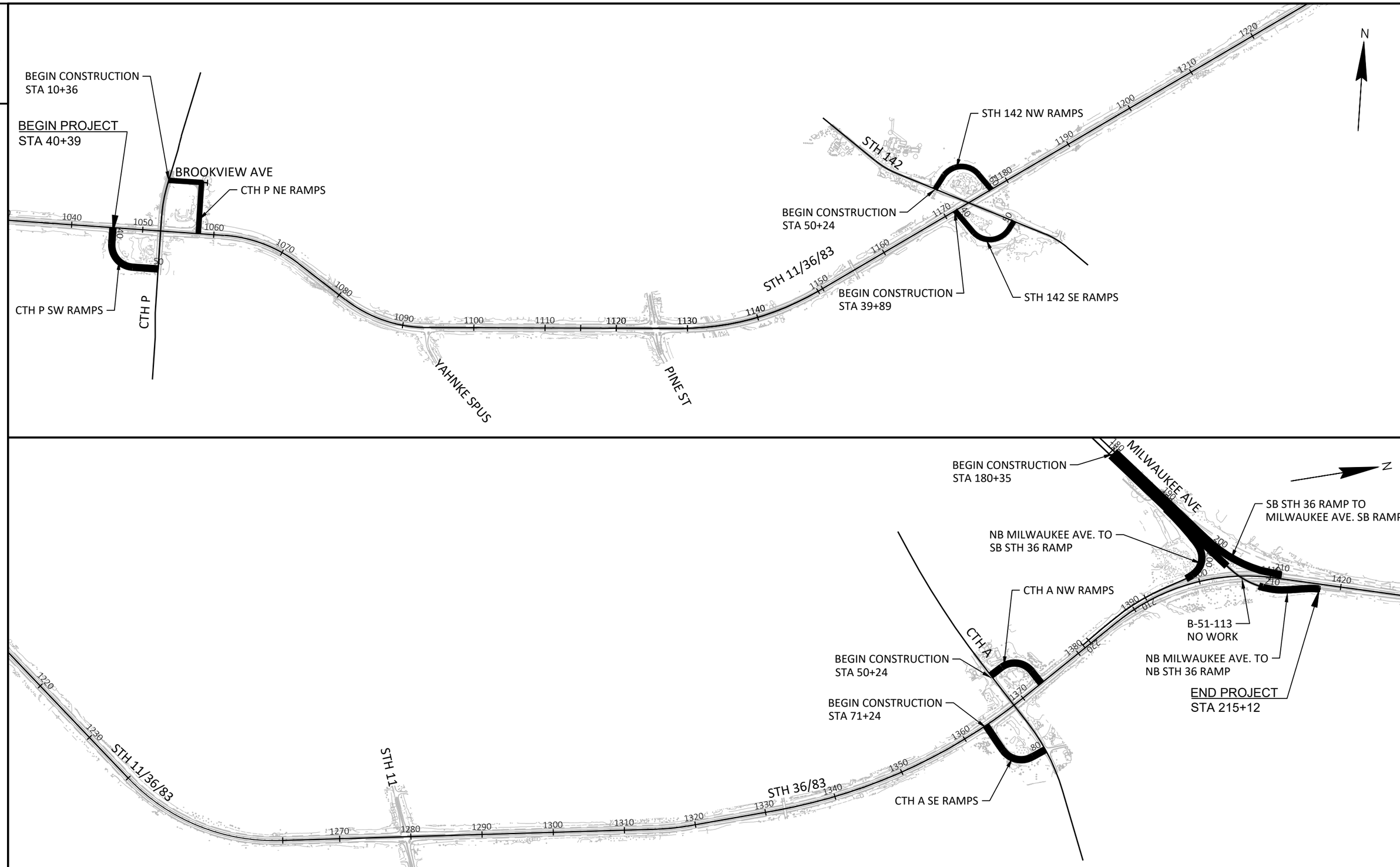
ORDER OF SECTIONS 2 DETAIL SHEET

HMA PAVING

LOCATION	STA TO STA	LAYER	THICKNESS	HMA PAVEMENT
MILWAUKEE AVE.	180+35 TO 183+66	UPPER	1¼-INCH	5 LT 58-28 H
		LOWER	1¼-INCH	5 LT 58-28 S
SB STH 36 RAMP TO MILWAUKEE AVE. SB RAMP	183+66 TO 207+14	UPPER	1¾-INCH	4 LT 58-28 H
		LOWER	2¼-INCH	3 LT 58-28 S
NB MILWAUKEE AVE. TO NB STH 36 RAMP	183+66 TO 215+12	UPPER	1¾-INCH	4 LT 58-28 H
NB MILWAUKEE AVE. TO SB STH 36 RAMP	183+66 TO 203+75	UPPER	1¾-INCH	4 LT 58-28 H
CTH A SE RAMPS	71+24 TO 80+70	UPPER	1¾-INCH	4 LT 58-28 H
CTH A NW RAMPS	50+24 TO57+25	UPPER	1¾-INCH	4 LT 58-28 H
STH 142 NE RAMPS	50+24 TO 59+66	UPPER	1¾-INCH	4 LT 58-28 H
STH 142 SW RAMPS	39+89 TO49+76	UPPER	1¾-INCH	4 LT 58-28 H
CTH P SW RAMPS	40+39 TO 49+66	UPPER	1¾-INCH	4 MT 58-28 H
		LOWER	2¾-INCH	3 MT 58-28 S
		LOWER	2¾-INCH	3 MT 58-28 S
CTH P NE RAMPS	10+36 TO 50+94	UPPER	1¾-INCH	4 MT 58-28 H
		LOWER	2¾-INCH	3 MT 58-28 S
		LOWER	2¾-INCH	3 MT 58-28 S

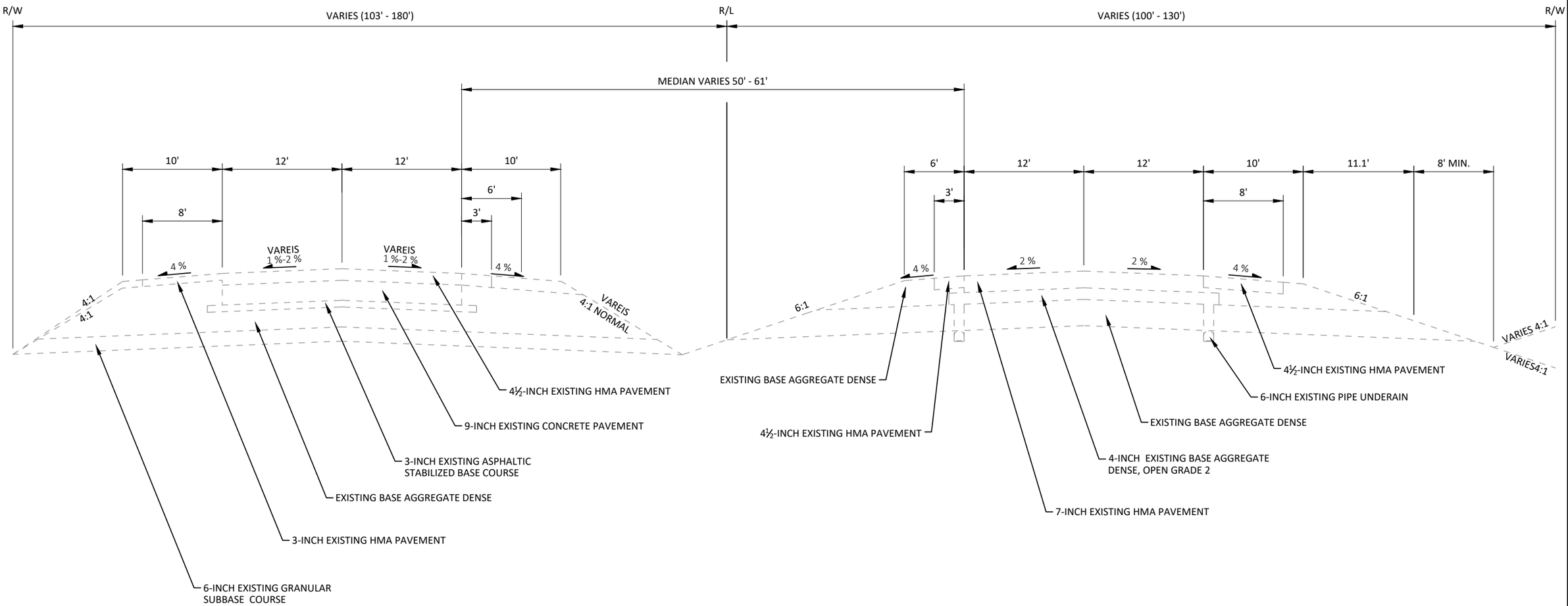
STANDARD ABBREVIATIONS

ABUT	ABUTMENT	LT	LEFT
AC	ACRE	LHF	LEFT HAND FORWARD
AGG	AGGREGATE	L	LENGTH OF CURVE
AH	AHEAD	LF	LINEAR FOOT
∠	ANGLE	LC	LONG CHORD OF CURVE
AADT	ANNUAL AVERAGE DAILY TRAFFIC	LS	LUMP SUM
AEW	APRON ENDWALL	MGAL	ONE THOUSAND GALLONS
ASPH	ASPHALTIC	MH	MANHOLE
BK	BACK	ML OR M/L	MATCH LINE
BC	BACK OF CURB	NOM	NOMINAL
BAD	BASE AGGREGATE DENSE	NC	NORMAL CROWN
BL OR B/L	BASE LINE	NB	NORTHBOUND
BM	BENCH MARK	NO	NUMBER
CB	CATCH BASIN	OD	OUTSIDE DIAMETER
CL OR C/L	CENTER LINE	PAVT	PAVEMENT
Δ	CENTRAL ANGLE OR DELTA	PLE	PERMANENT LIMITED EASEMENT
CE	COMMERCIAL ENTRANCE	PC	POINT OF CURVATURE
CONC	CONCRETE	PI	POINT OF INTERSECTION
CSW	CONCRETE SIDEWALK	PT	POINT OF TANGENCY
CONST	CONSTRUCTION	PCC	PORTLAND CEMENT CONCRETE
CP	CONTROL POINT	LB	POUND
CO	COUNTY	PSI	POUNDS PER SQUARE INCH
CTH	COUNTY TRUCK HIGHWAY	PE	PRIVATE ENTRANCE
CY	CUBIC YARD	PROJ	PROJECT
CP	CULVERT PIPE	PL	PROPERTY LINE
CPCA	CULVERT PIPE CORRUGATED ALUMINUM	PRW	PROPOSED RIGHT OF WAY
CPCPE	CULVERT PIPE CORRUGATED POLYETHYLENE	R	RADIUS
CPCPP	CULVERT PIPE CORRUGATED POLYPROPYLENE	RL OR R/L	REFERENCE LINE
CPCS	CULVERT PIPE CORRUGATED STEEL	REQD	REQUIRED
CPCSAC	CULVERT PIPE CORRUGATED STEEL ALUMINUM COATED	RT	RIGHT
CPCSPC	CULVERT PIPE CORRUGATED STEEL POLYMER COATED	RHF	RIGHT HAND FORWARD
CPRC	CULVERT PIPE REINFORCED CONCRETE	R/W	RIGHT OF WAY
CPRCHE	CULVERT PIPE REINFORCED CONCRETE HORIZONTAL ELLIPTICAL	RD	ROAD
CPS	CULVERT PIPE SALVAGED	RDWY	ROADWAY
CPT	CULVERT PIPE TEMPORARY	SHLDR	SHOULDER
C & G	CURB AND GUTTER	SW	SIDEWALK
D	DEGREE OF CURVE	SB	SOUTHBOUND
DHV	DESIGN HOUR VOLUME	SPECS	SPECIFICATIONS
DIA	DIAMETER	SF	SQUARE FEET
DD	DIRECTIONAL DISTRIBUTION	SY	SQUARE YARD
DE	DRAINAGE EASEMENT	SDD	STANDARD DETAIL DRAWINGS
DWY	DRIVEWAY	STH	STATE TRUNK HIGHWAY
EA	EACH	STA	STATION
EB	EASTBOUND	SSPC	STORM SEWER PIPE COMPOSITE
EL OR ELEV	ELEVATION	SSCPE	STORM SEWER PIPE CORRUGATED POLYETHYLENE
EMB	EMBANKMENT	SSCPP	STORM SEWER PIPE CORRUGATED POLYPROPYLENE
EW	ENDWALL	SSPNRC	STORM SEWER PIPE NON-REINFORCED CONCRETE
EAT	ENERGY ABSORBING TERMINAL	SSPRC	STORM SEWER PIPE REINFORCED CONCRETE
ESALS	EQUIVALENT SINGLE AXLE LOADS	SSPRC	STORM SEWER PIPE REINFORCED CONCRETE
EXC	EXCAVATION	SSPRCHE	STORM SEWER PIPE REINFORCED CONCRETE HORIZONTAL ELLIPTICAL
EBS	EXCAVATION BELOW SUBGRADE	SE	SUPERELEVATION
EXIST	EXISTING	SL OR S/L	SURVEY LINE
FERT	FERTILIZER	TEMP	TEMPORARY
FE	FIELD ENTRANCE	TI	TEMPORARY INTEREST
FL OR F/L	FLOW LINE	TLE	TEMPORARY LIMITED EASEMENT
FT	FOOT	TC	TOP OF CURB
FTMS	FREE TRAFFIC MANAGEMENT SYSTEM	TL OR T/L	TRANSIT LINE
HES	HIGH EARLY STRENGTH	T	TRUCKS (PERCENT OF)
HE	HIGHWAY EASEMENT	TYP	TYPICAL
CWT	HUNDRED WEIGHT	USH	UNITED STATES HIGHWAY
IN DIA	INCH DIAMETER	VAR	VARIABLE
INL	INLET	VC	VERTICAL CURVE
ID	INSIDE DIAMETER	VPC	VERTICAL POINT OF CURVATURE
INTERS	INTERSECTION	VPI	VERTICAL POINT OF INTERSECTION
IH	INTERSTATE HIGHWAY	VPT	VERTICAL POINT OF TANGENCY
INV	INVERT	W	WEST
JT	JOINT	WB	WESTBOUND



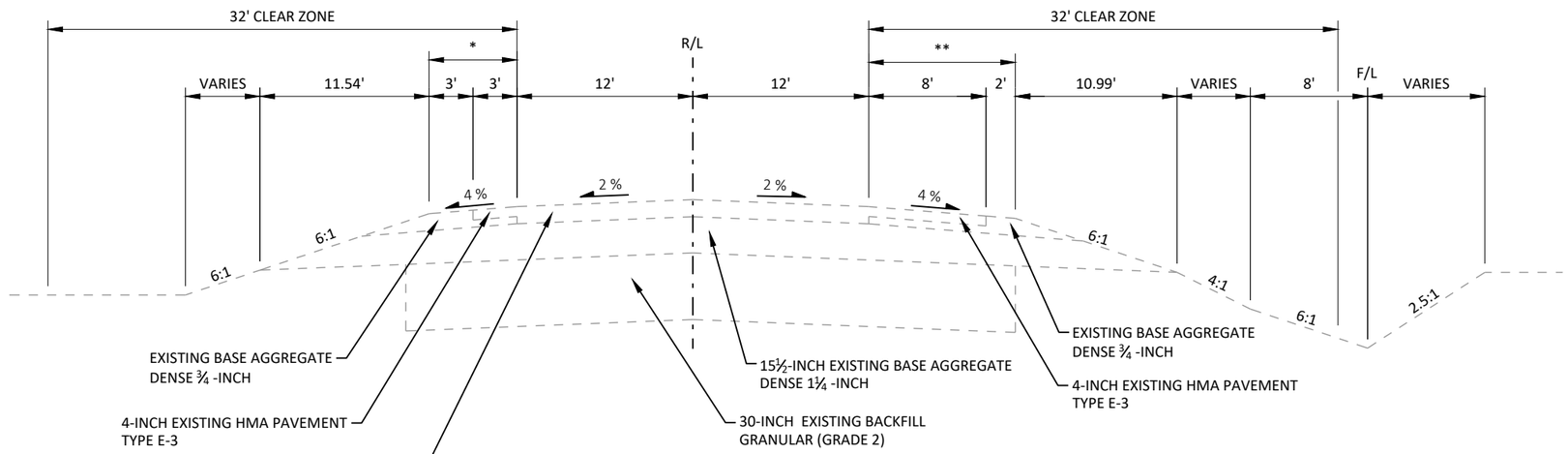
PROJECT NO: 3180-00-78	HWY: VAR HWY	COUNTY: RACINE	PROJECT OVERVIEW	SHEET 4	E

FILE NAME : N:\PDS\C3D\31800008\SHEETS\020201-PO.DWG
LAYOUT NAME - 1-po
PLOT DATE : 9/23/2024 11:36 AM
PLOT BY : HAYNES, RONNIE
PLOT NAME :
PLOT SCALE : 1 IN:1250 FT
WISDOT/CADDS SHEET 44

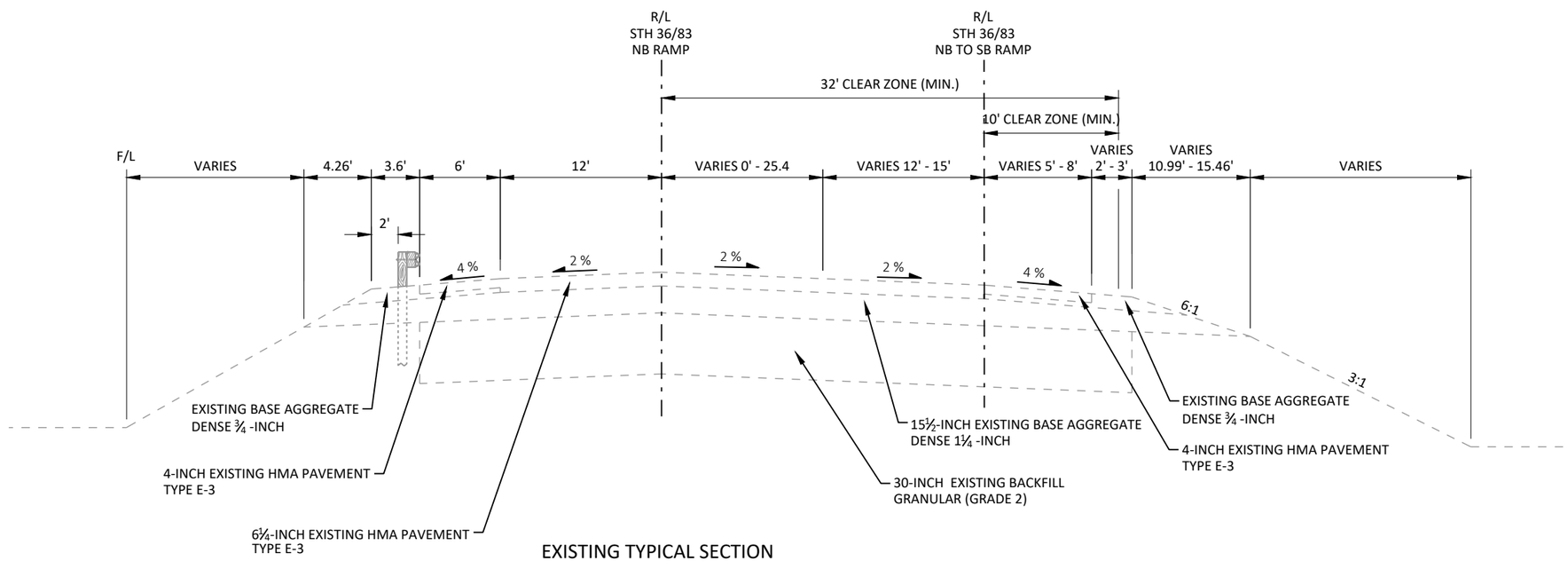


EXISTING TYPICAL SECTION
MILWAUKEE AVENUE
STA. 180+35 TO STA. 183+66

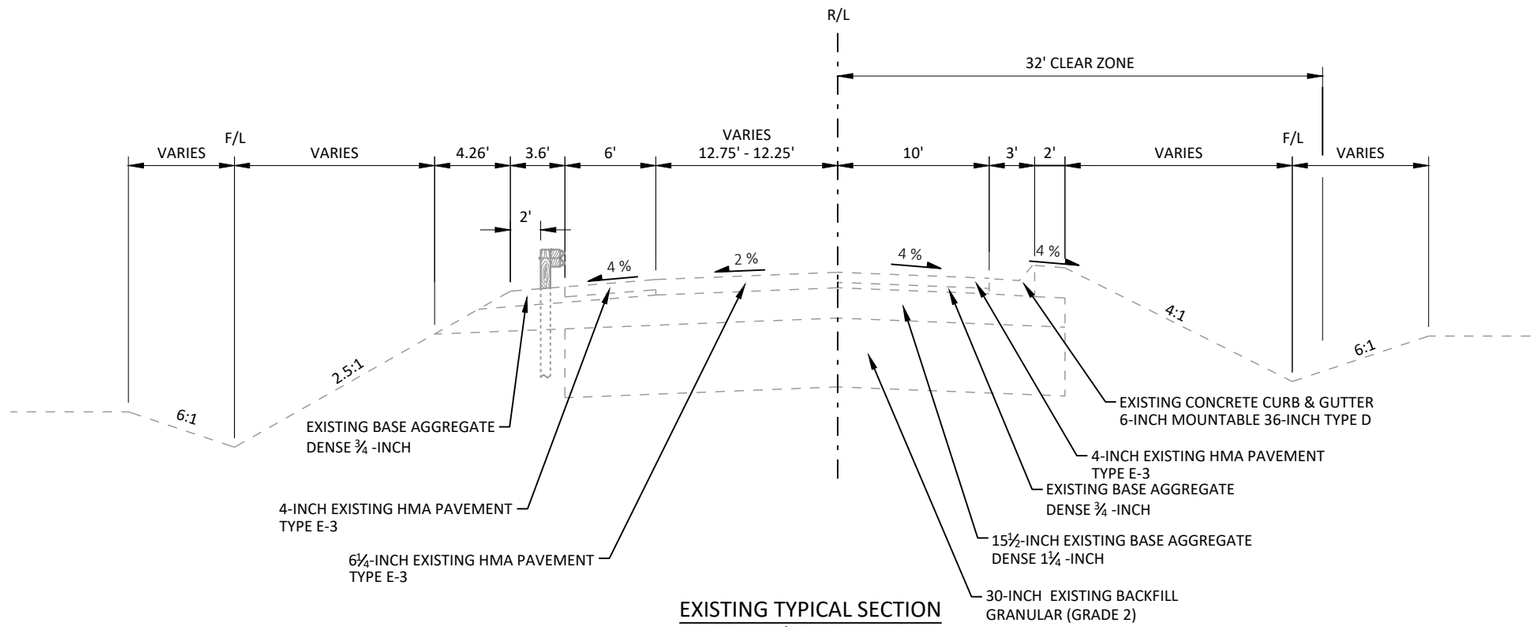
PROJECT NO: 3180-00-78	HWY: VAR HWY	COUNTY: RACINE	TYPICAL SECTIONS	SHEET 5	E



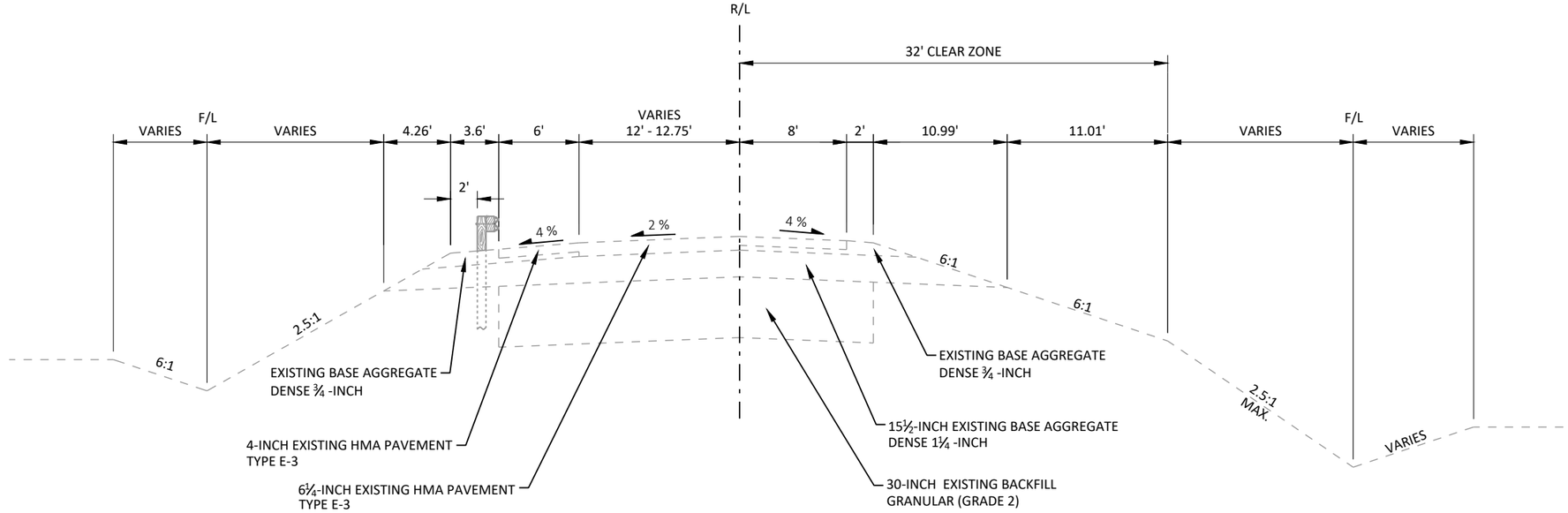
EXISTING TYPICAL SECTION
STH 36/83 NB RAMP
STA. 183+66 TO STA. 191+10 ±
* STA. 189+21 TO STA. 191+10 SHOULDER WIDTH VARIES DUE TO BEAM GUARD.
** STA. 189+00 TO STA. 191+10 SHOULDER WIDTH VARIES DUE TO BEAM GUARD.



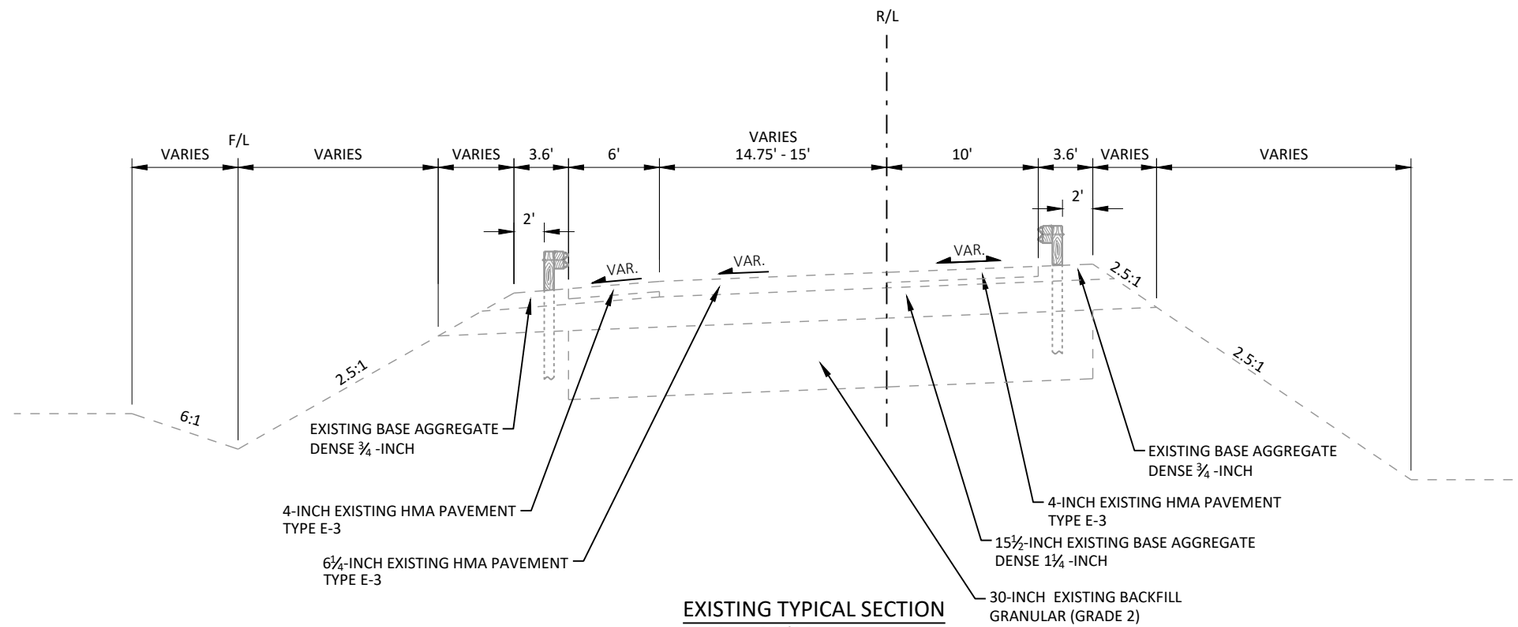
EXISTING TYPICAL SECTION
STH 36/83 NB RAMP
STA. 191+10 ± TO STA. 195+85 ±



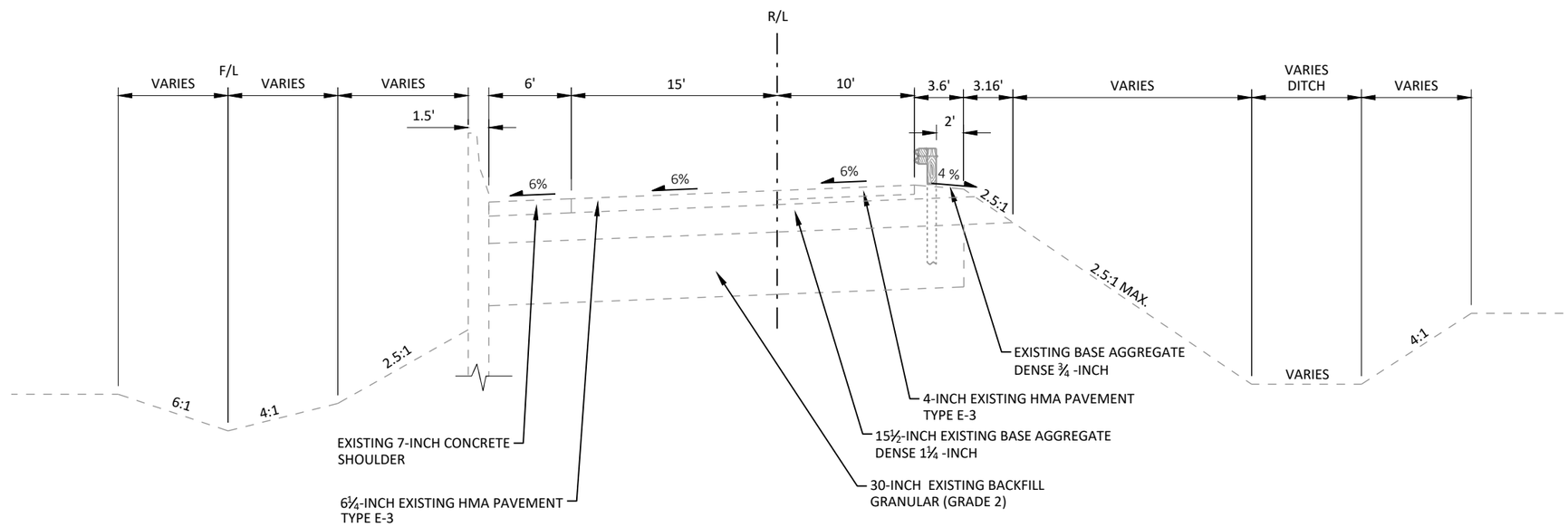
EXISTING TYPICAL SECTION
STH 36/83 NB RAMP
STA. 195+85 TO STA. 198+00



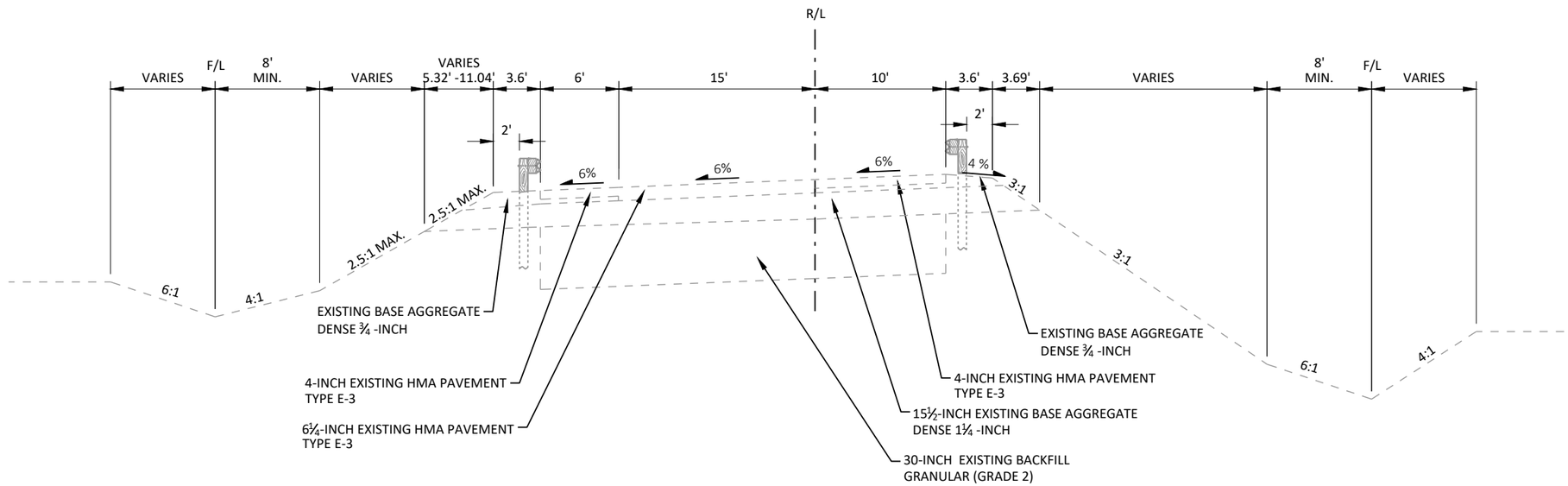
EXISTING TYPICAL SECTION
STH 36/83 NB RAMP
STA. 198+00 TO STA. 199+90 ±



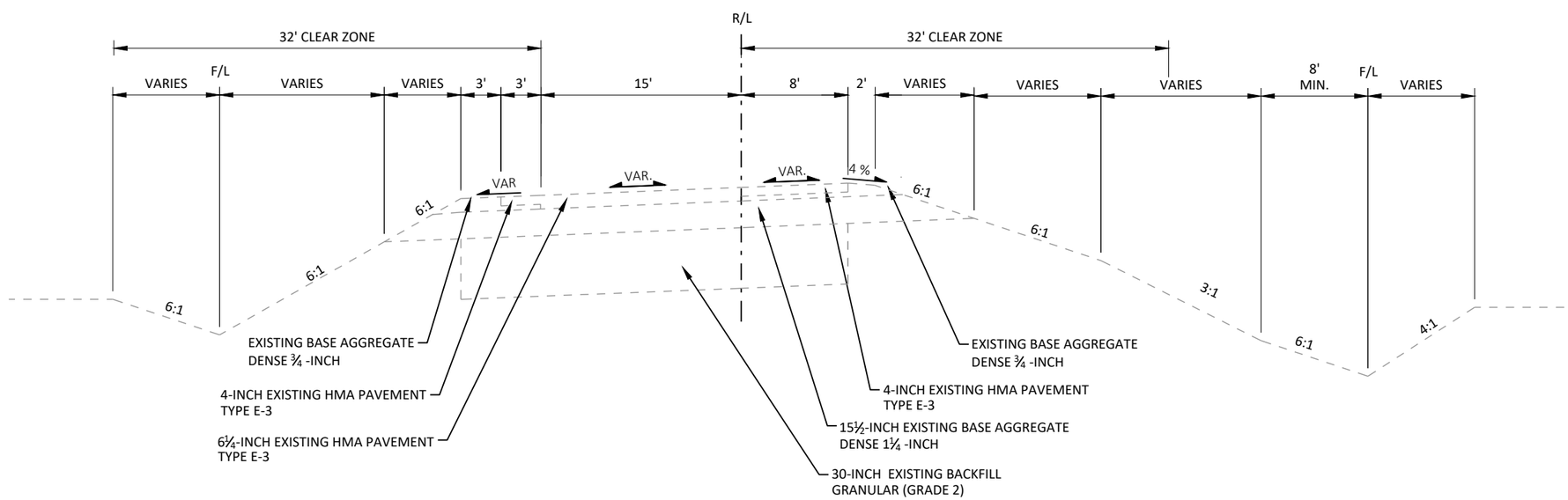
EXISTING TYPICAL SECTION
STH 36/83 NB RAMP
STA.199+90 ± TO END BRIDGE (B-51-113)



EXISTING TYPICAL SECTION
STH 36/83 NB RAMP
BRIDGE (B-51-113) TO STA. 209+55 ±

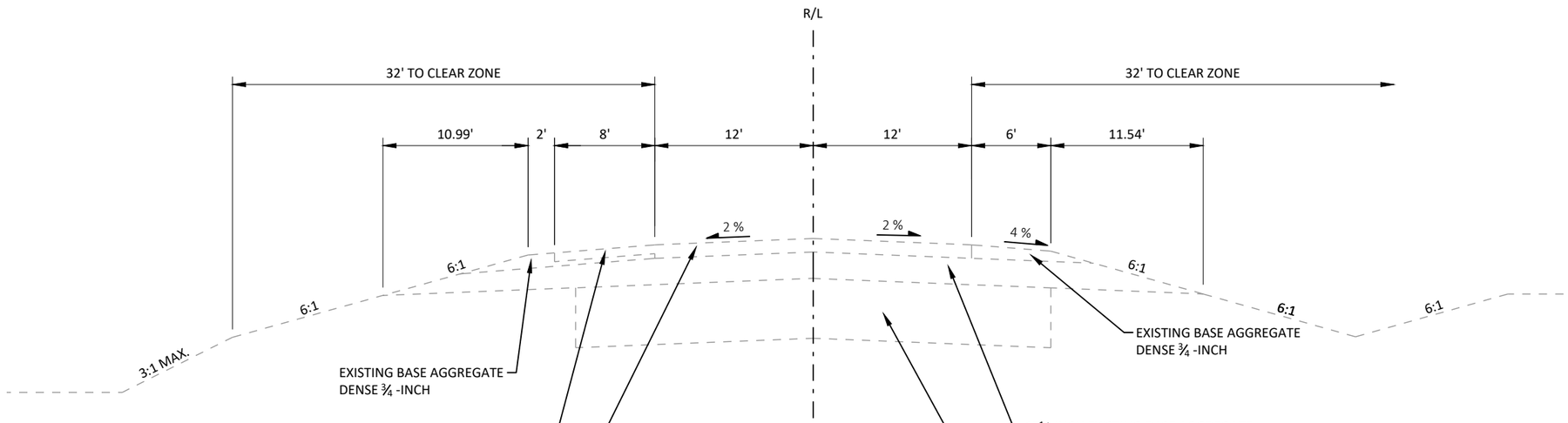


EXISTING TYPICAL SECTION
STH 36/83 NB RAMP
STA. 209+55 ± TO STA. 211+00 ±

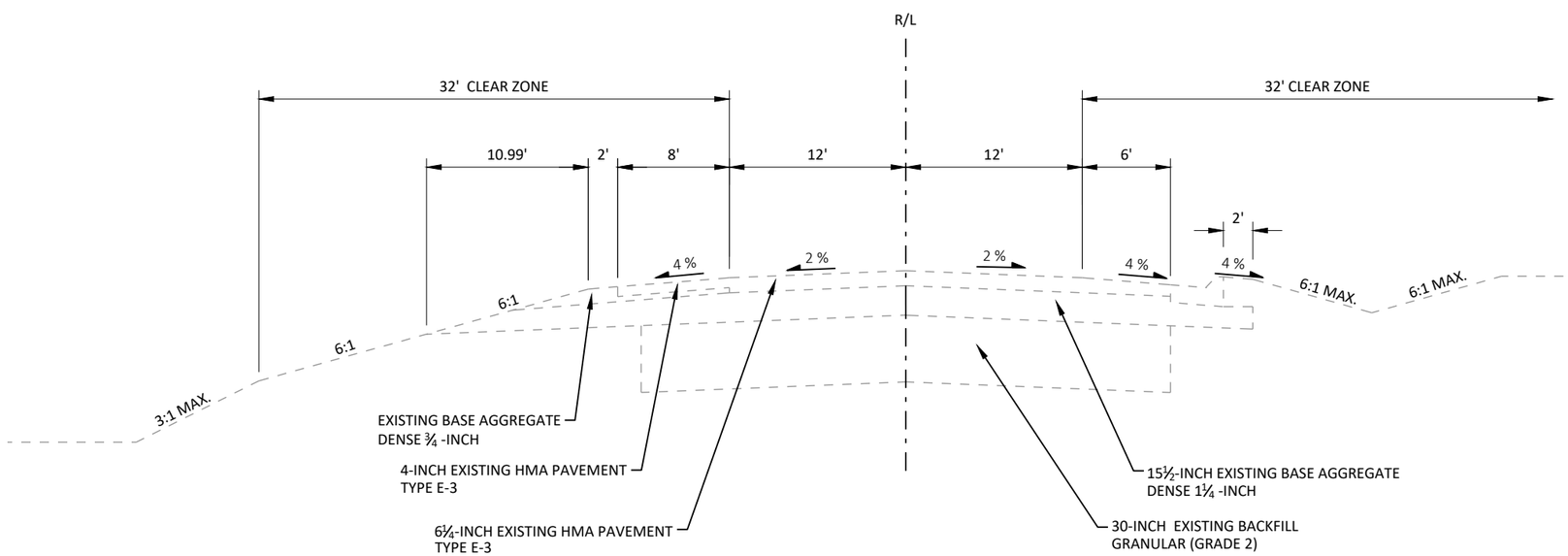


EXISTING TYPICAL SECTION
STH 36/83 NB RAMP
STA. 211+00 ± TO STA. 215+00 ±

PROJECT NO: 3180-00-78	HWY: VAR HWY	COUNTY: RACINE	TYPICAL SECTIONS	SHEET 9	E

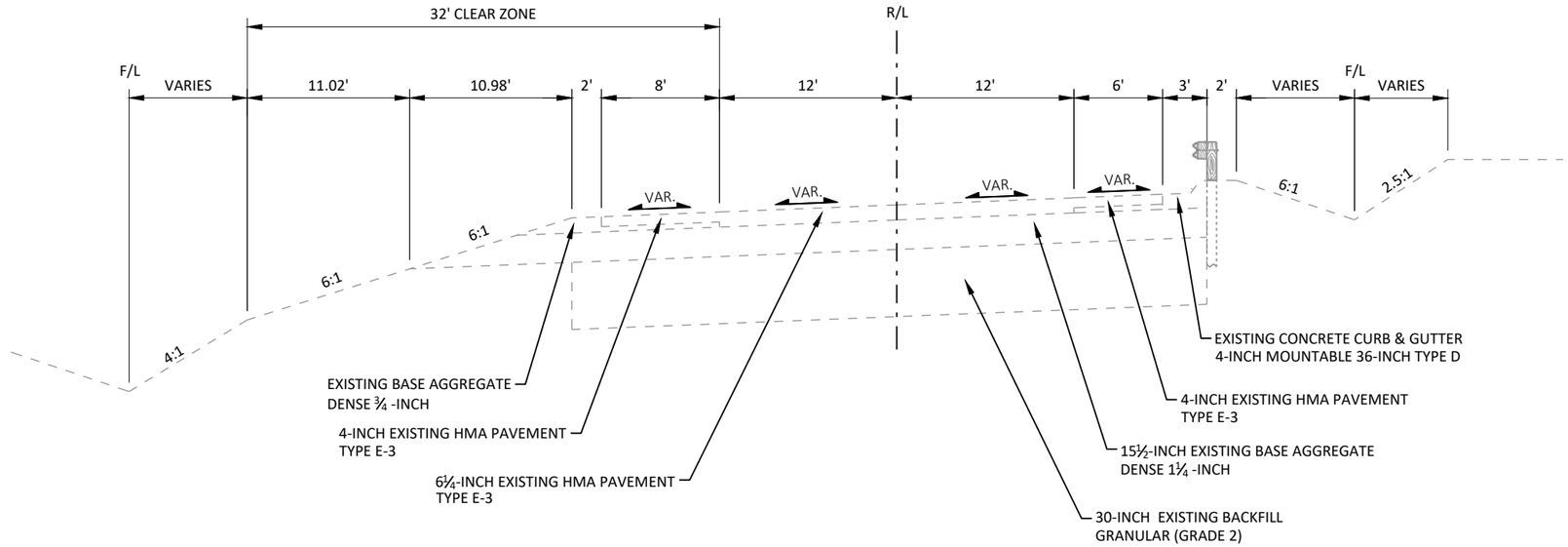


EXISTING TYPICAL SECTION
STH 36/83 SB RAMP
STA. 183+66 TO STA. 192+00



EXISTING TYPICAL SECTION
STH 36/83 SB RAMP
STA. 192+00 TO STA. 197+00

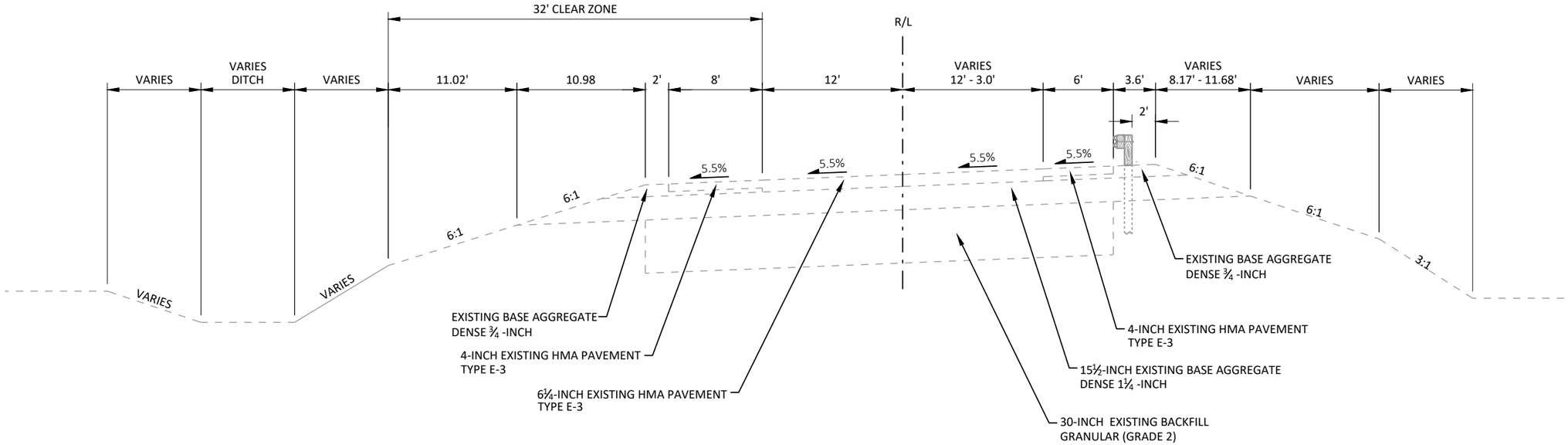
2



EXISTING TYPICAL SECTION

STH 36/83 SB RAMP

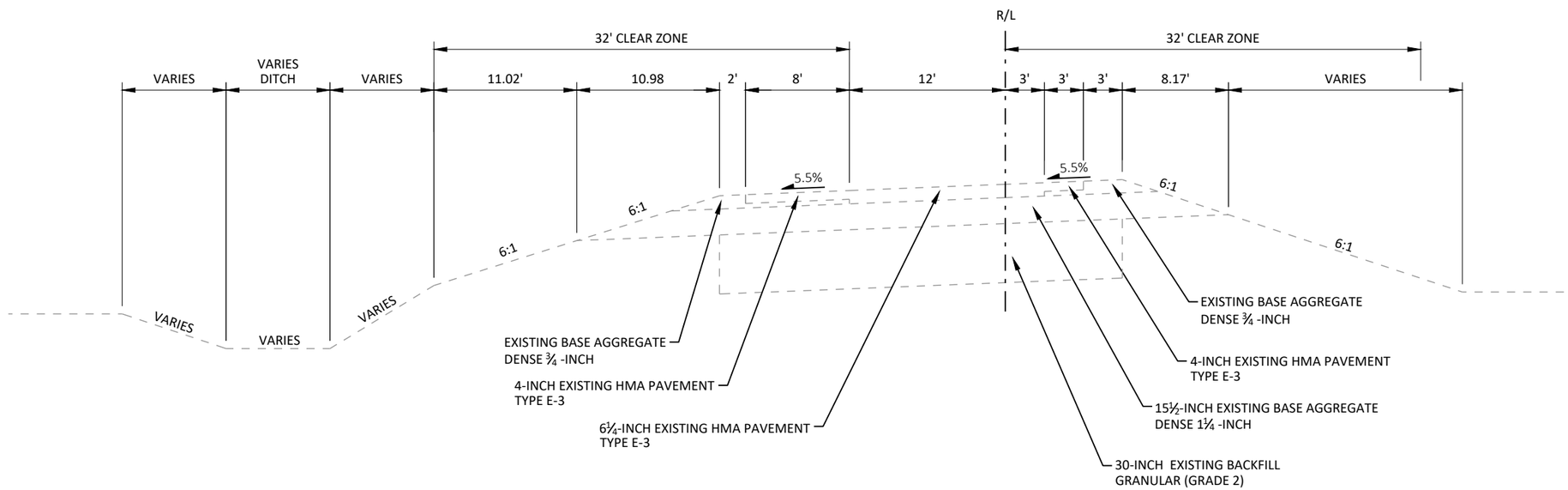
STA. 197+00 TO STA. 201+50



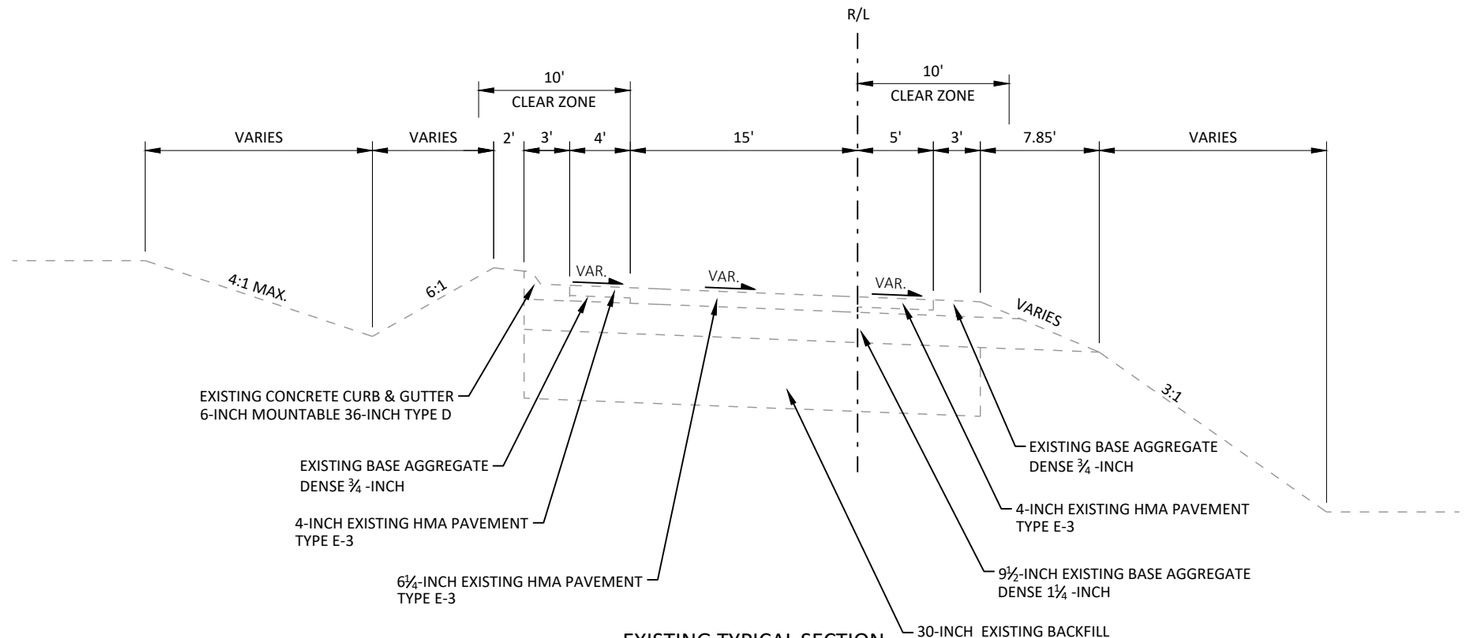
EXISTING TYPICAL SECTION

STH 36/83 SB RAMP

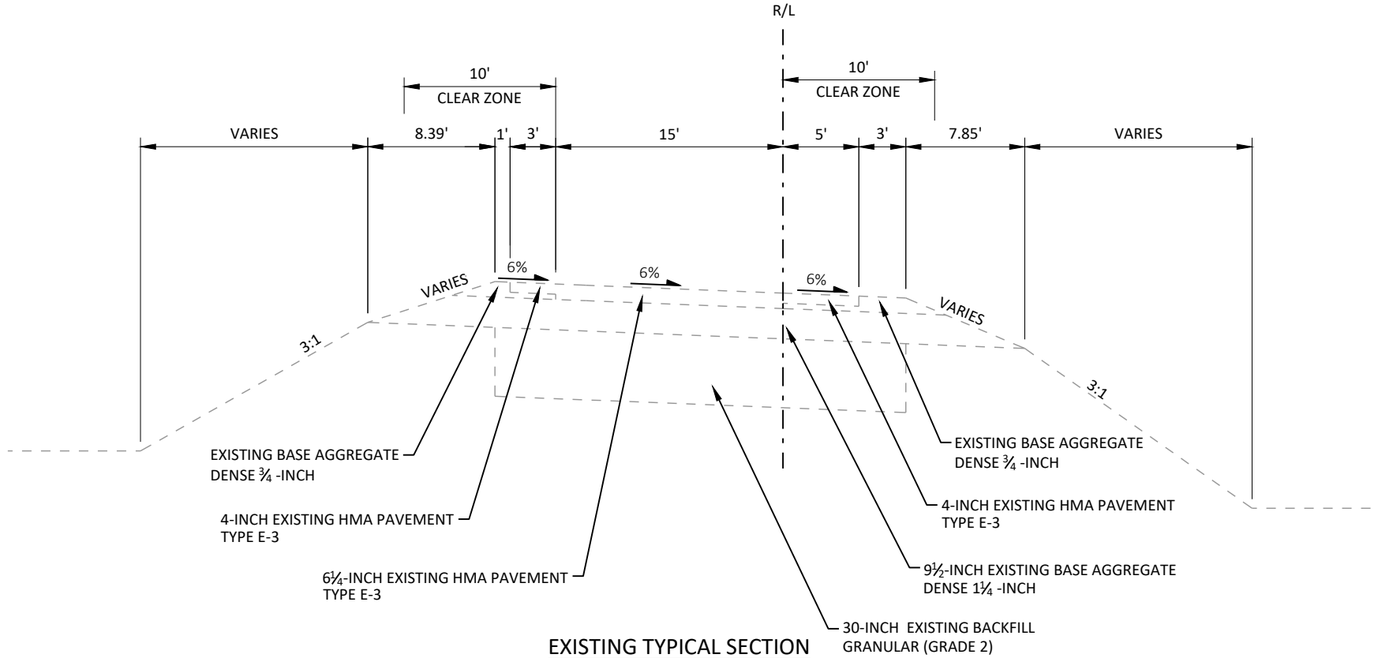
STA. 201+50 TO STA. 204+00 ±



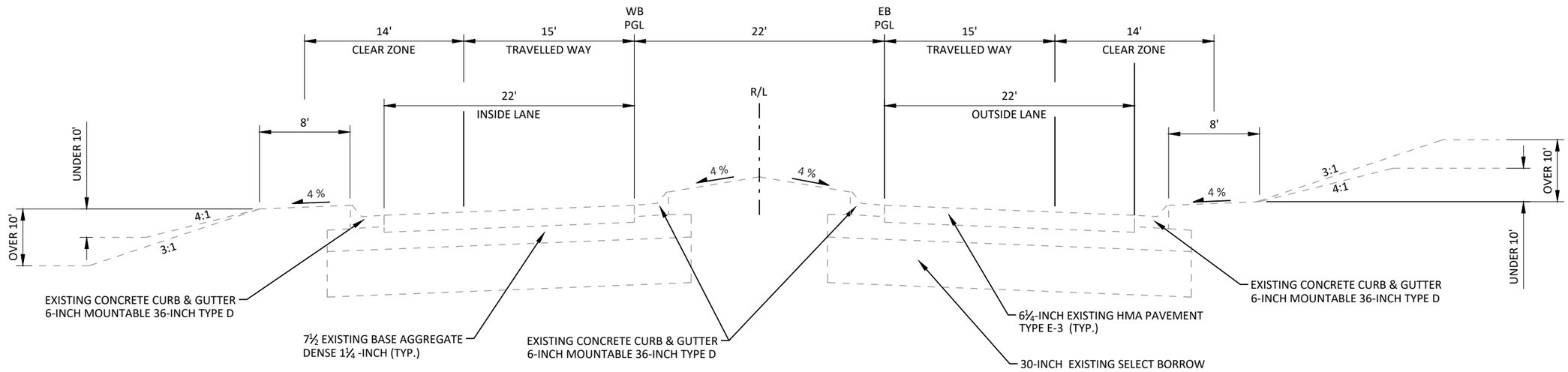
EXISTING TYPICAL SECTION
STH 36/83 SB RAMP
STA. 204+00 ± TO STA. 207+50 ±



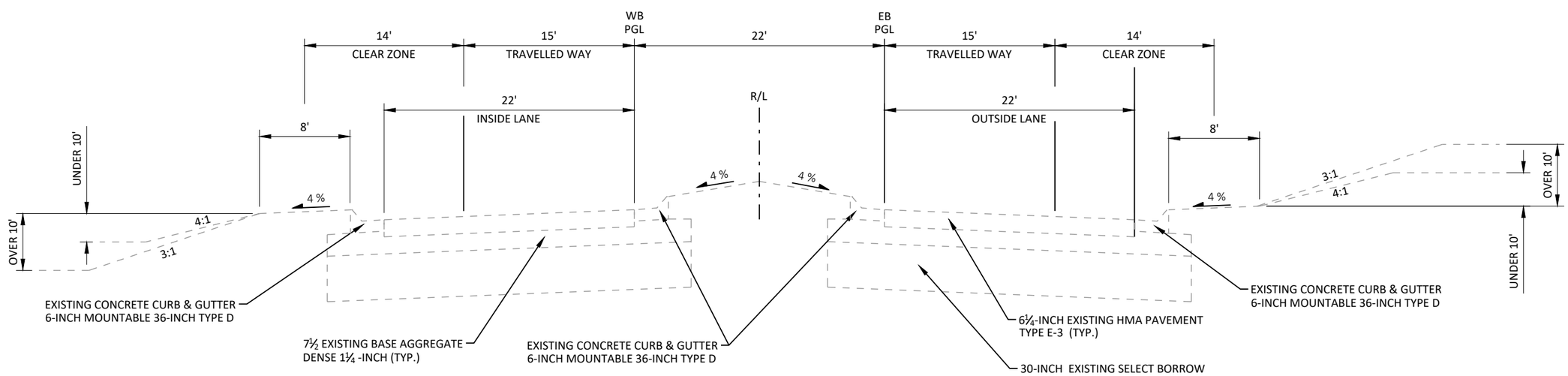
EXISTING TYPICAL SECTION
STH 36/83 NB TO SB RAMP
STA. 195+85 TO STA. 198+00
STA. 201+50 TO 203+75



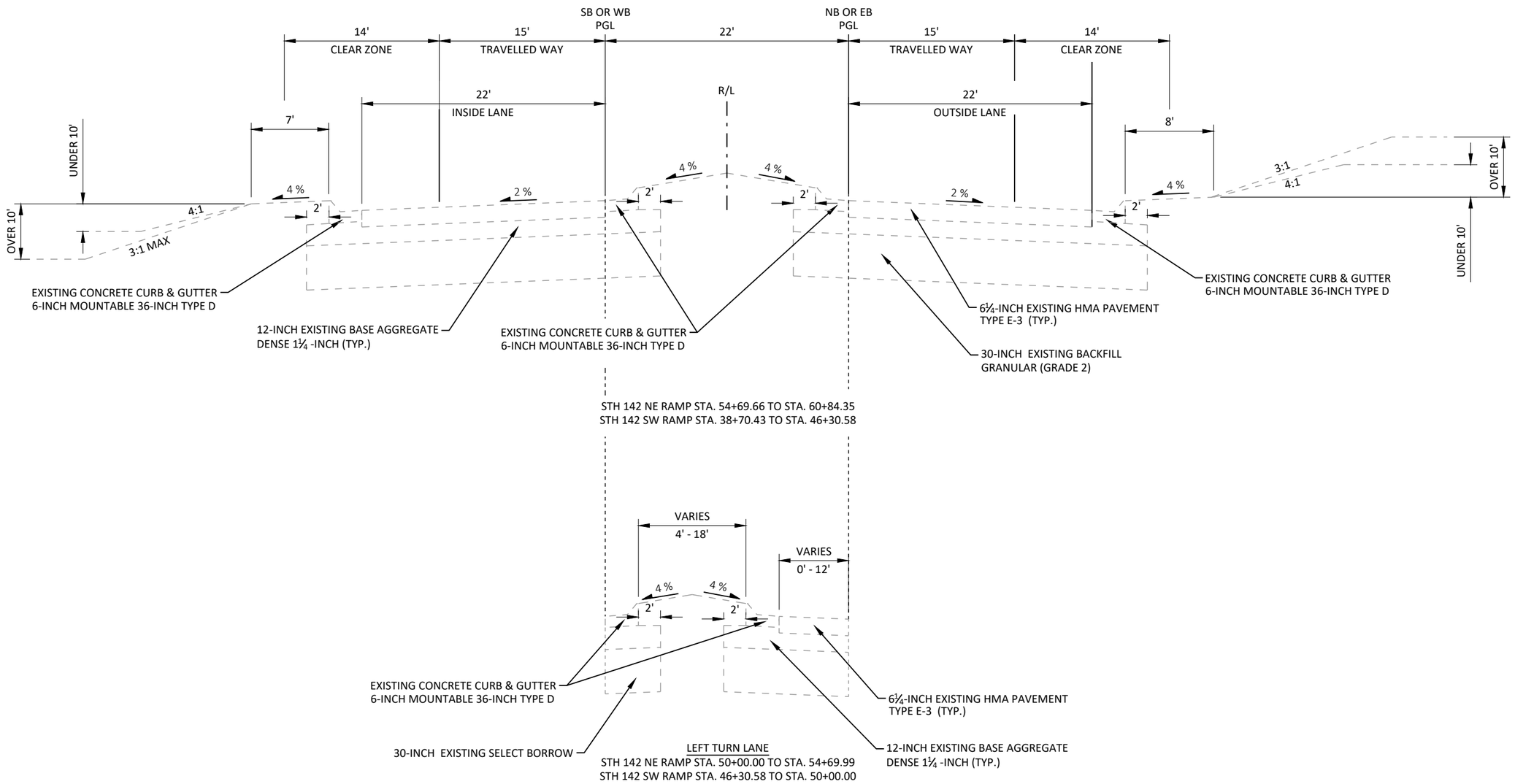
EXISTING TYPICAL SECTION
STH 36/83 NB TO SB RAMP
STA. 198+00 TO STA. 201+50



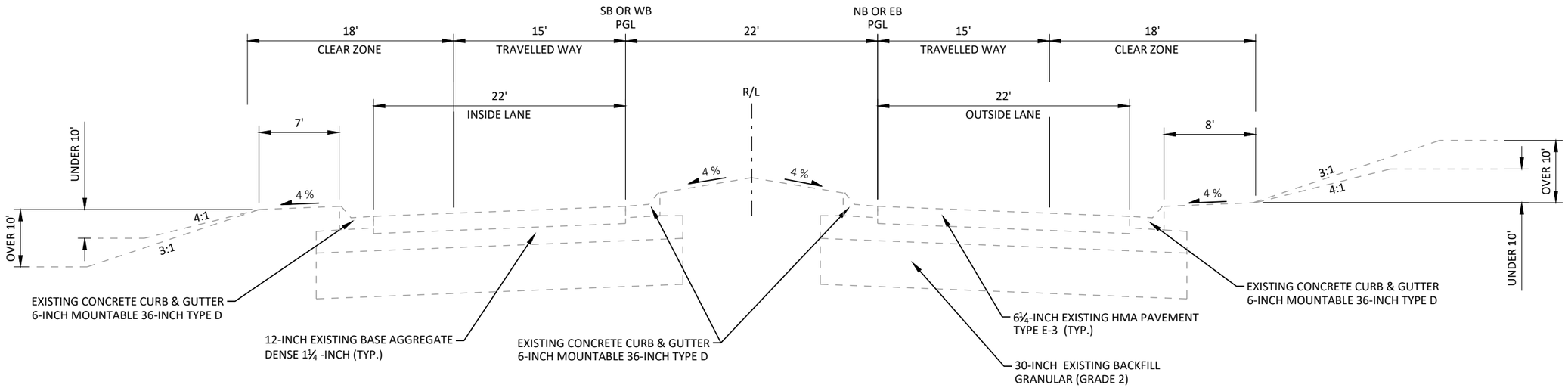
EXISTING TYPICAL SECTION
CTH A NW RAMP
STA. 50+00.00 TO STA. 58+84.97



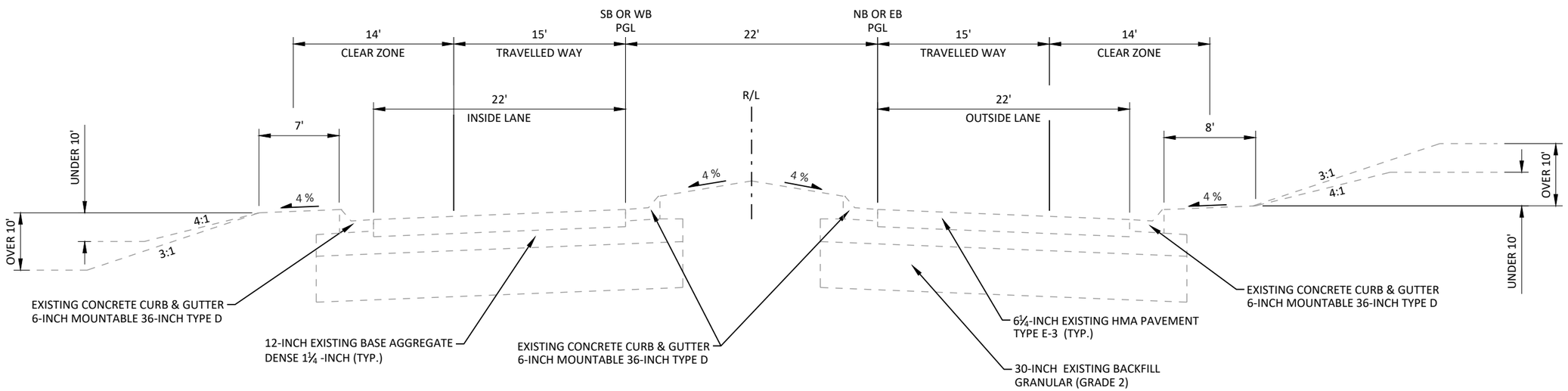
EXISTING TYPICAL SECTION
CTH A SE RAMP
STA. 70+00.00 TO STA. 80+97.11



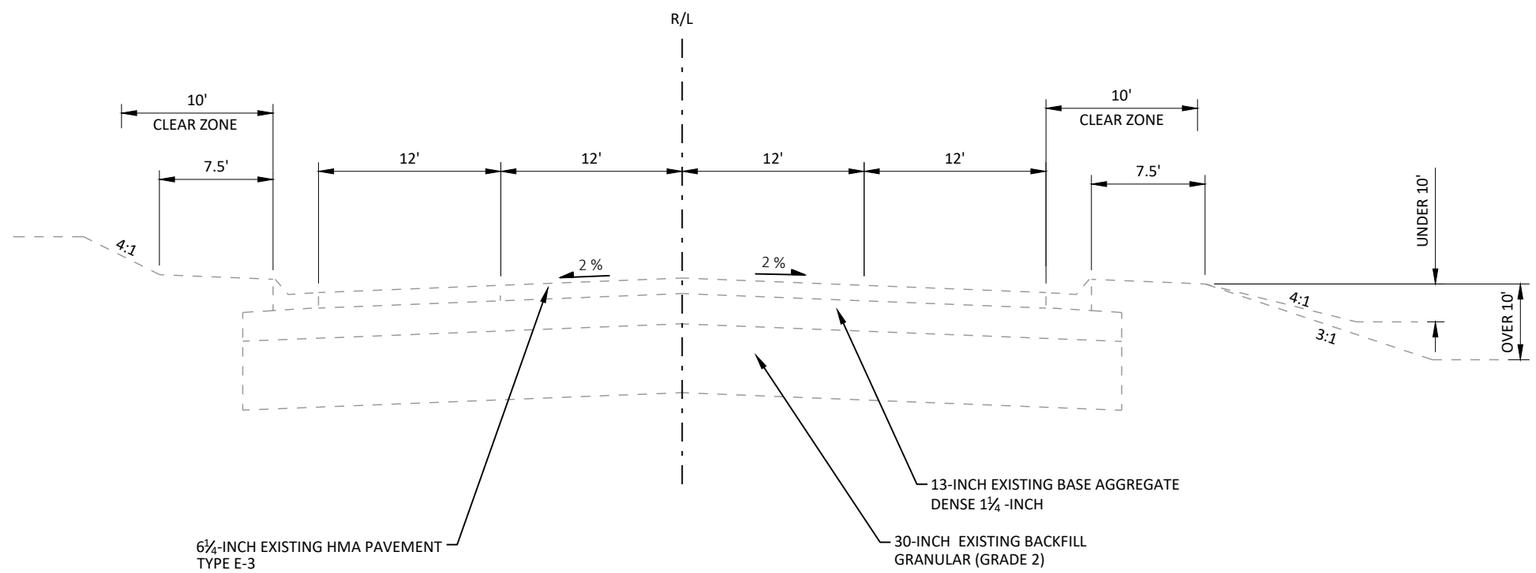
EXISTING TYPICAL SECTION
STH 142 RAMP



EXISTING TYPICAL SECTION
CTH P SW RAMP
STA. 39+85.62 TO STA. 49+66.63

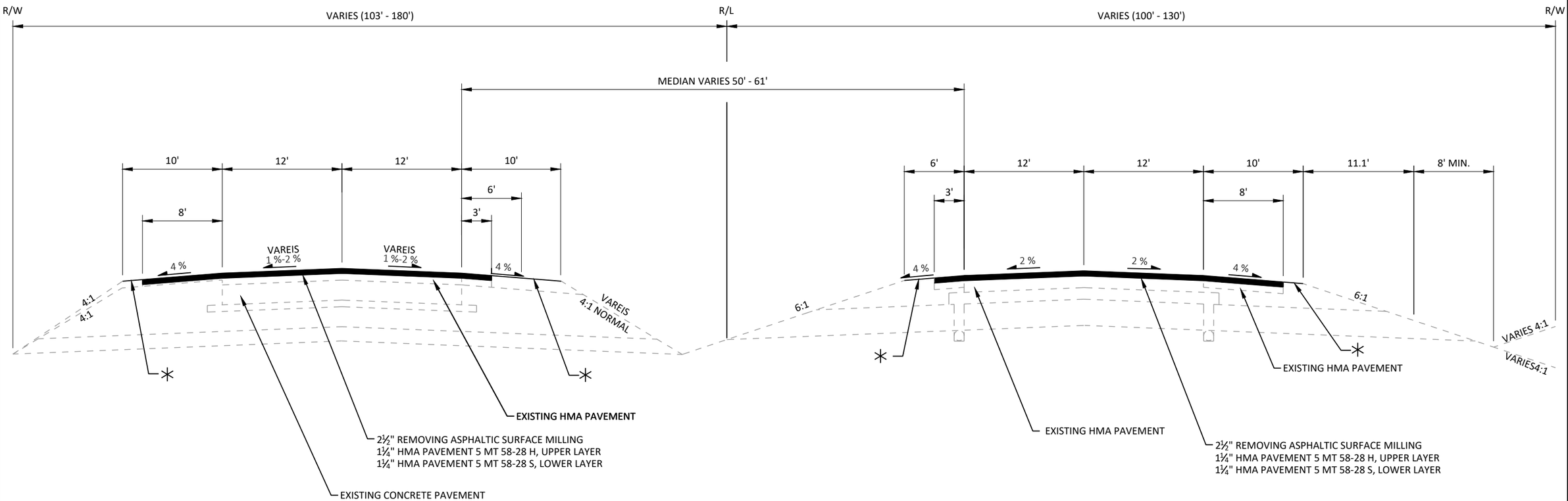


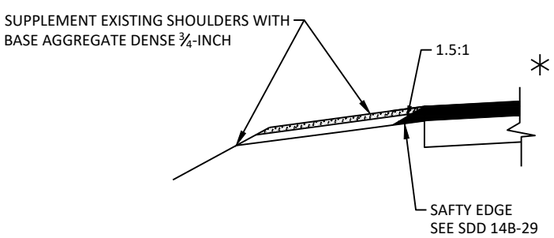
EXISTING TYPICAL SECTION
CTH P NE RAMP
STA. 50+00.00 TO STA. 57+19.63



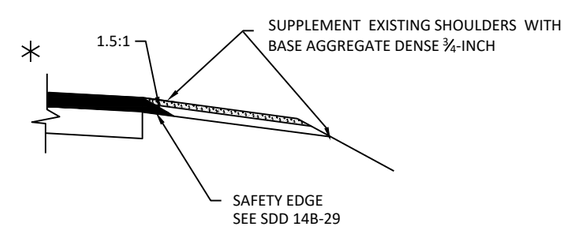
EXISTING TYPICAL URBAN 4-LANE UNDIVIDED SECTION BROOKVIEW AVE

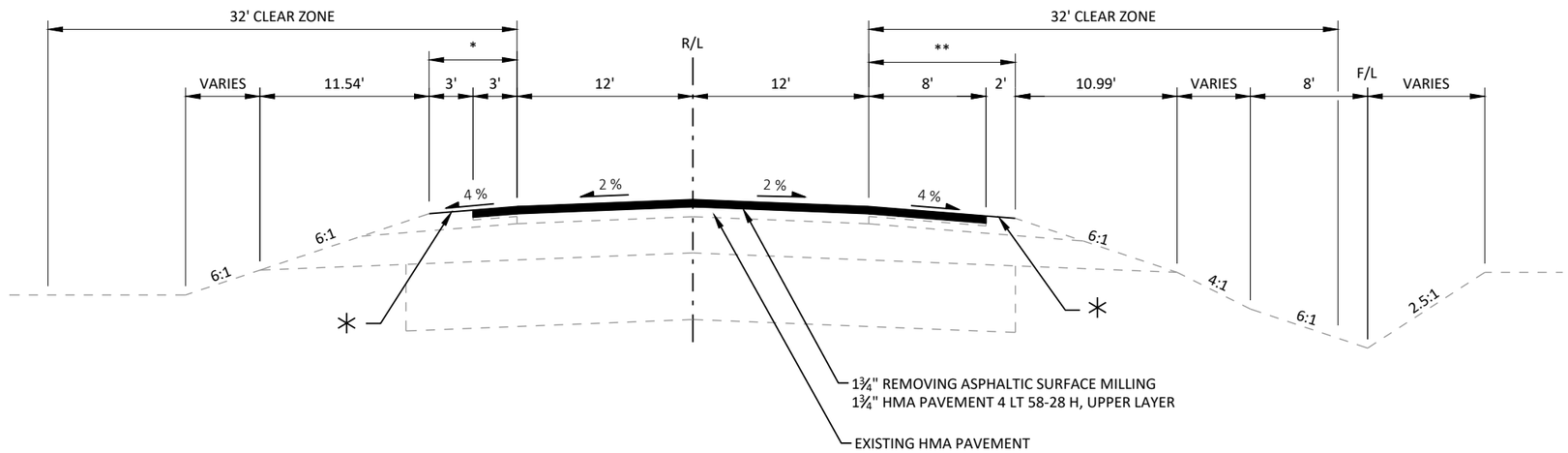
STA. 10+00.00 TO STA. 14+95.82





PROPOSED TYPICAL SECTION
MILWAUKEE AVENUE
STA. 180+35 TO STA. 183+66



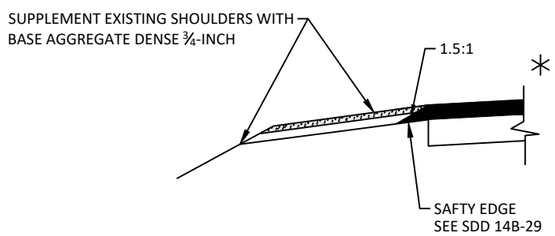


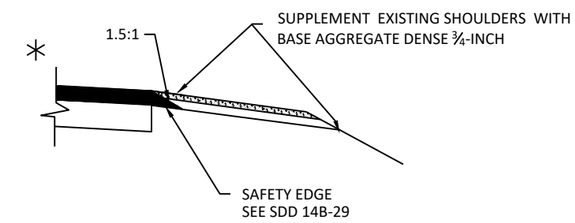
PROPOSED TYPICAL SECTION
STH 36/83 NB RAMP

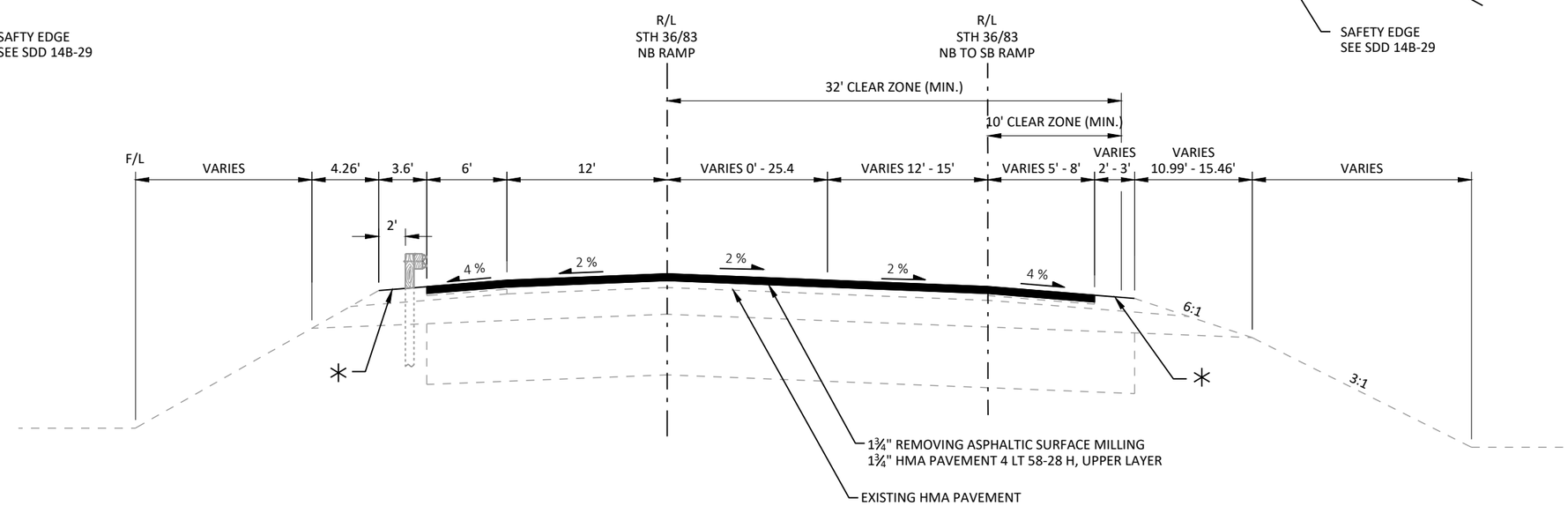
STA. 183+66 TO STA. 191+10 ±

* STA. 189+21 TO STA. 191+10 SHOULDER WIDTH VARIES DUE TO BEAM GUARD.

** STA. 189+00 TO STA. 191+10 SHOULDER WIDTH VARIES DUE TO BEAM GUARD.





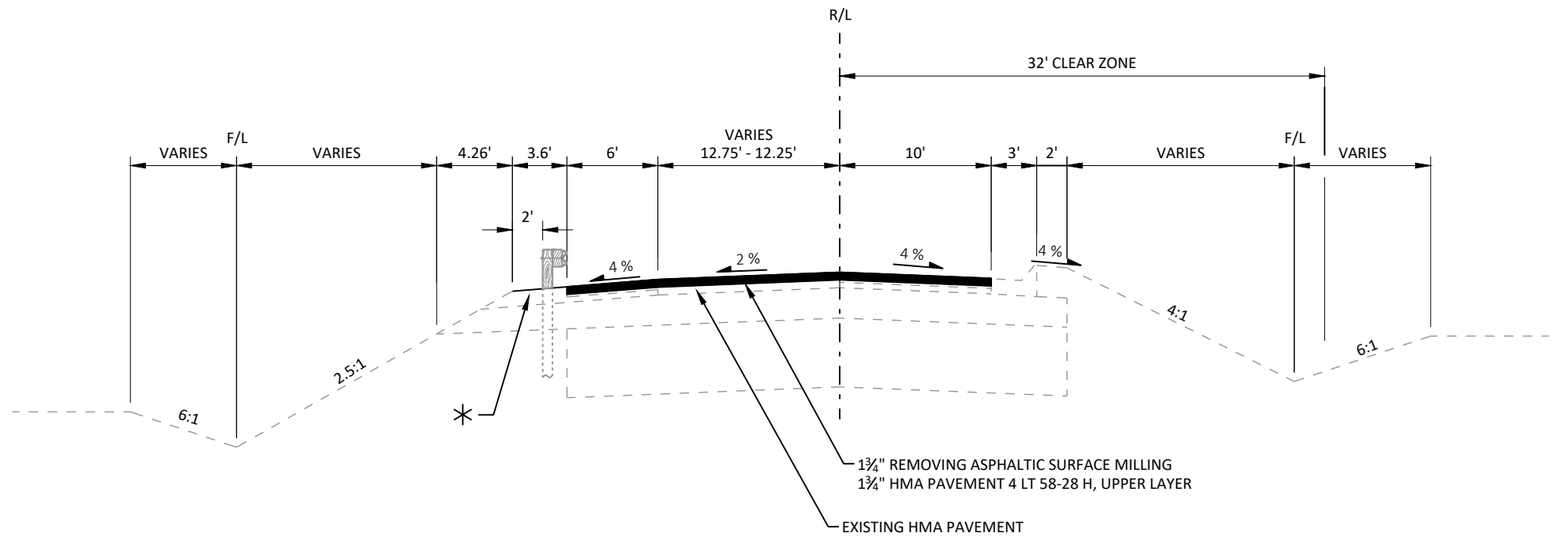


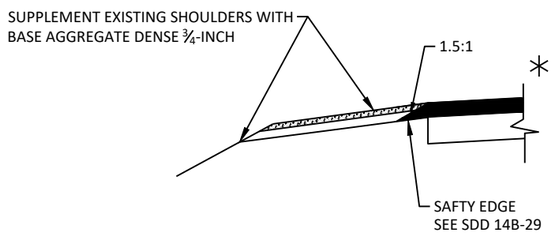
PROPOSED TYPICAL SECTION
STH 36/83 NB RAMP

STA. 191+10 ± TO STA. 195+85 ±

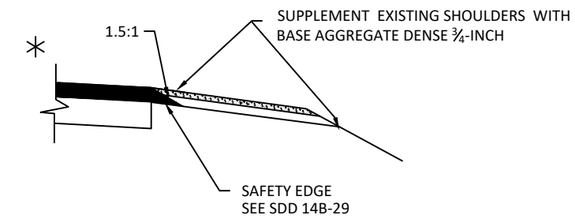
PROJECT NO: 3180-00-78	HWY: VAR HWY	COUNTY: RACINE	TYPICAL SECTIONS	SHEET 19	E

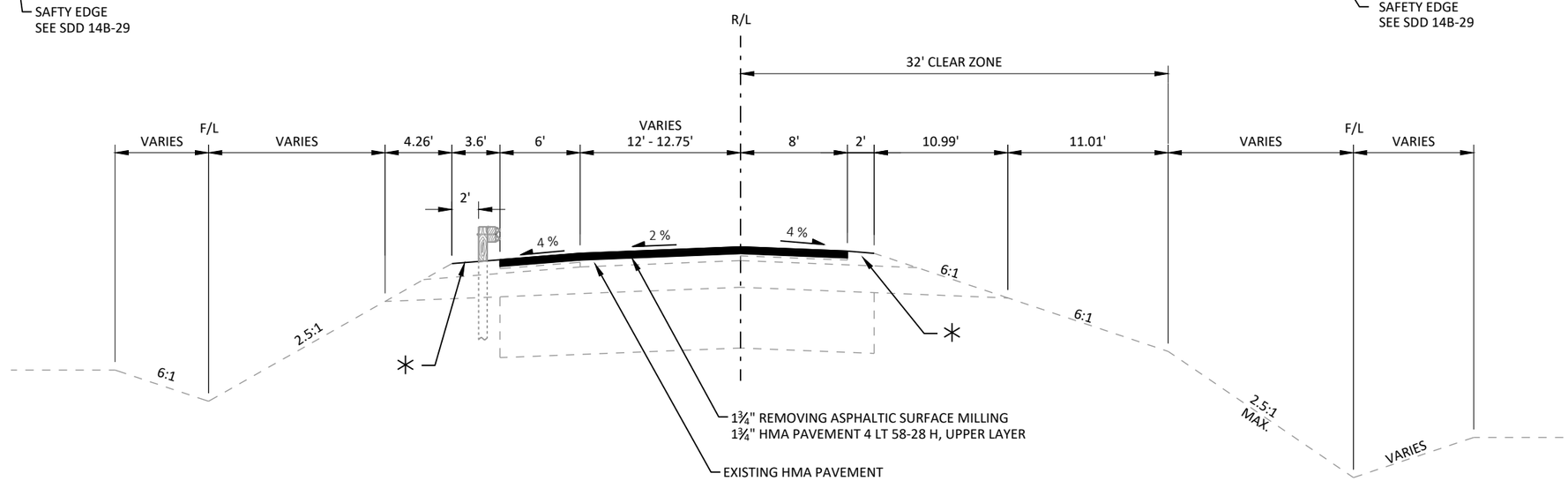
2





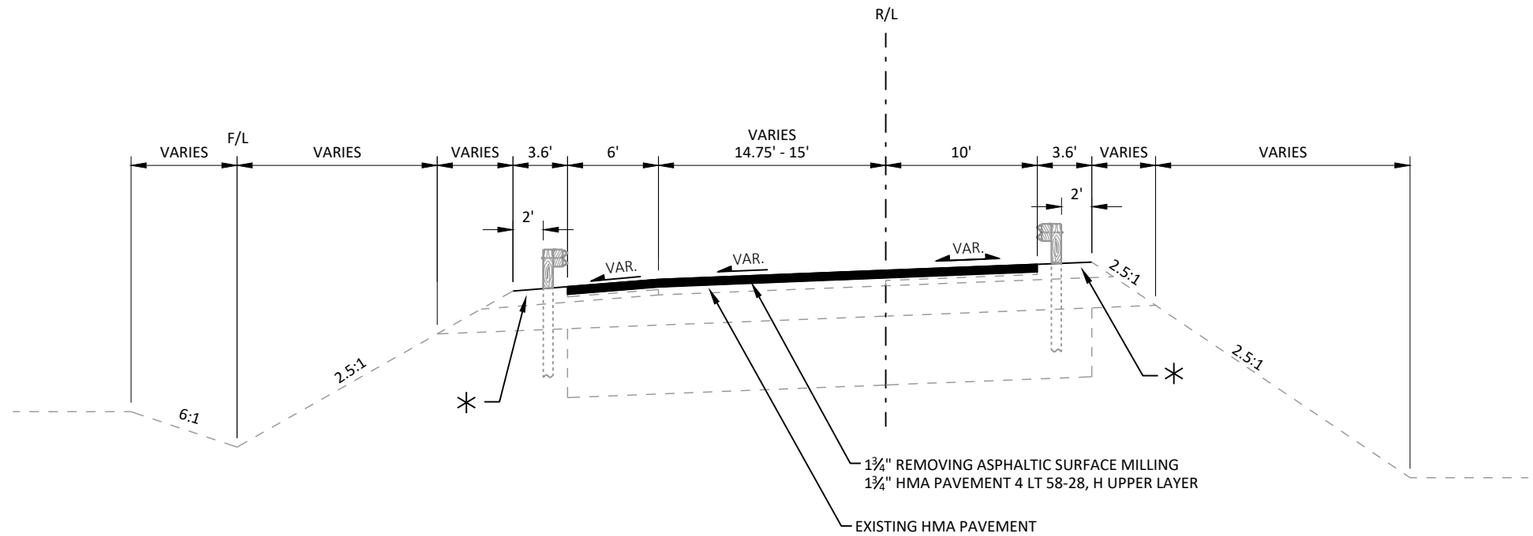
PROPOSED TYPICAL SECTION
STH 36/83 NB RAMP
STA. 195+85 TO STA. 198+00

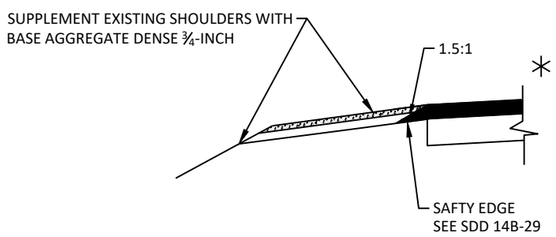




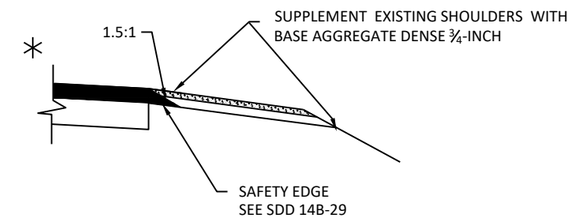
PROPOSED TYPICAL SECTION
STH 36/83 NB RAMP
STA. 198+00 TO STA. 199+90 ±

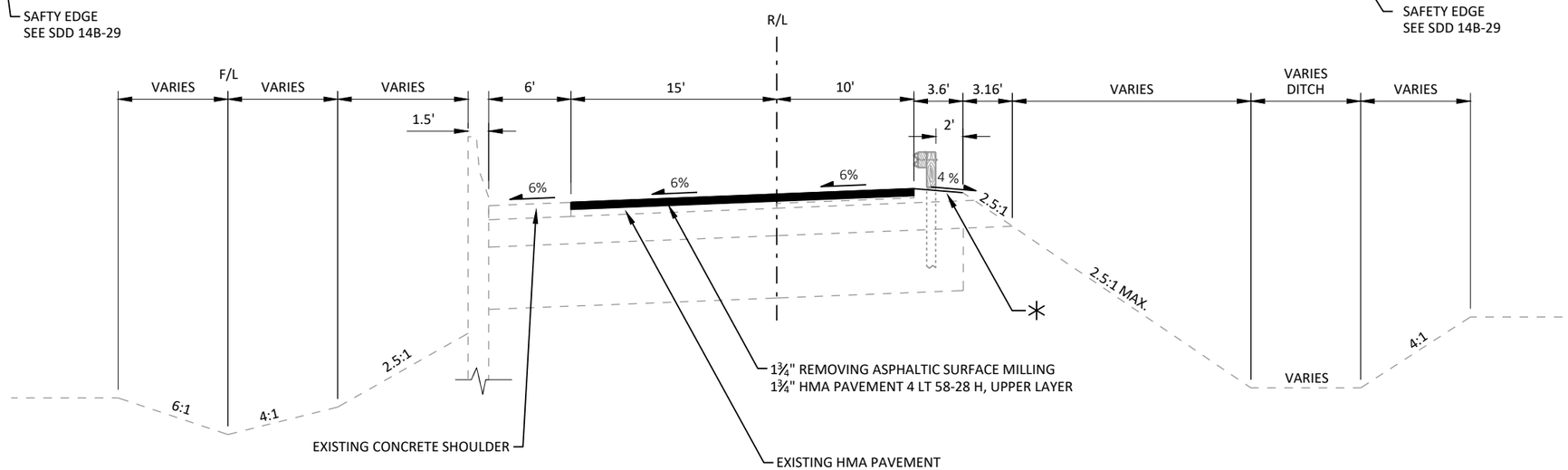
PROJECT NO: 3180-00-78	HWY: VAR HWY	COUNTY: RACINE	TYPICALS SECTIONS	SHEET 20	E



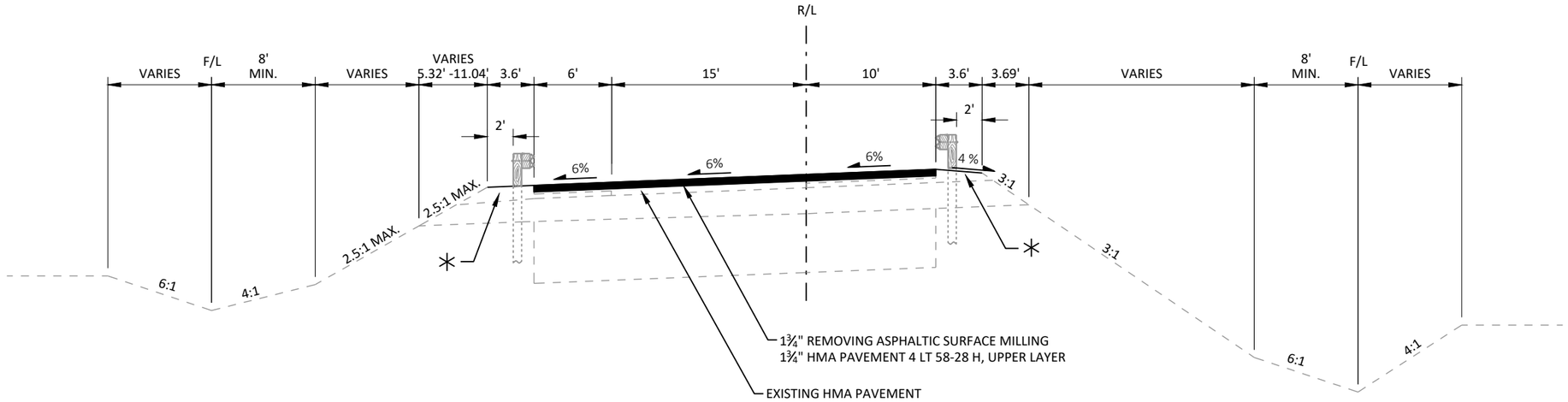


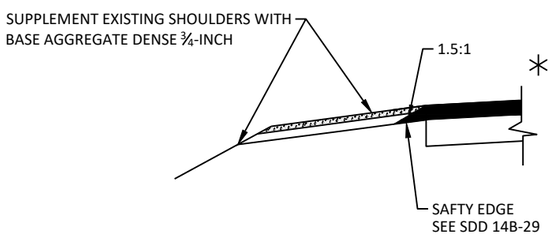
PROPOSED TYPICAL SECTION
STH 36/83 NB RAMP
STA.199+90 ± TO END BRIDGE (B-51-113)



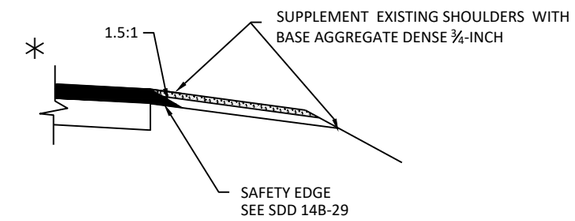


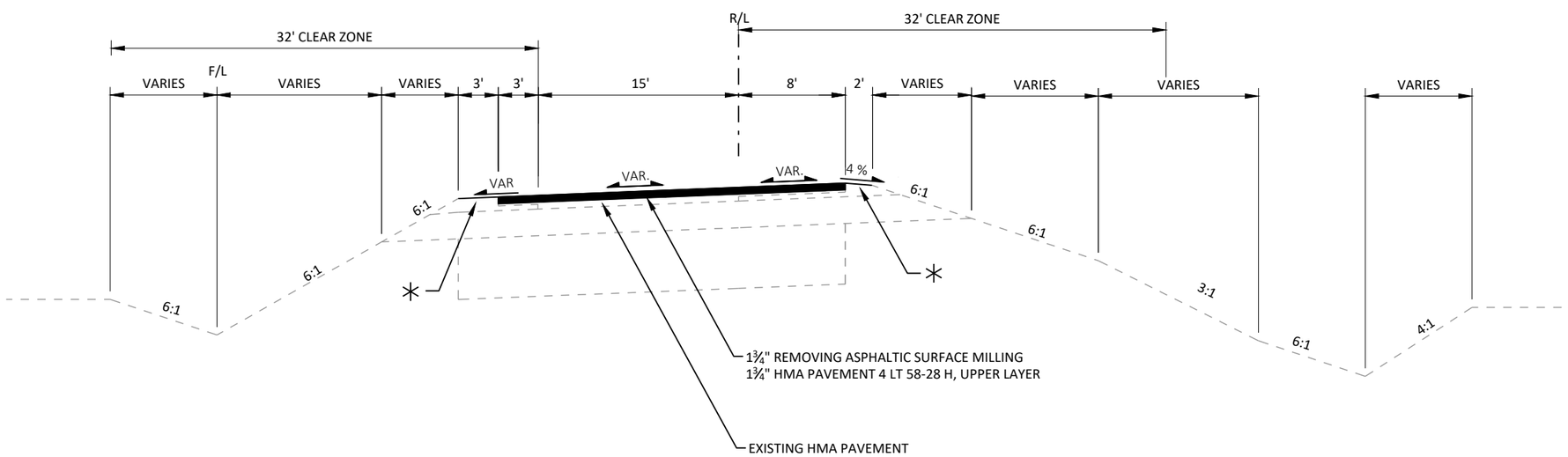
PROPOSED TYPICAL SECTION
STH 36/83 NB RAMP
BRIDGE (B-51-113) TO STA. 209+55 ±





PROPOSED TYPICAL SECTION
STH 36/83 NB RAMP
STA. 209+55 ± TO STA. 211+00 ±

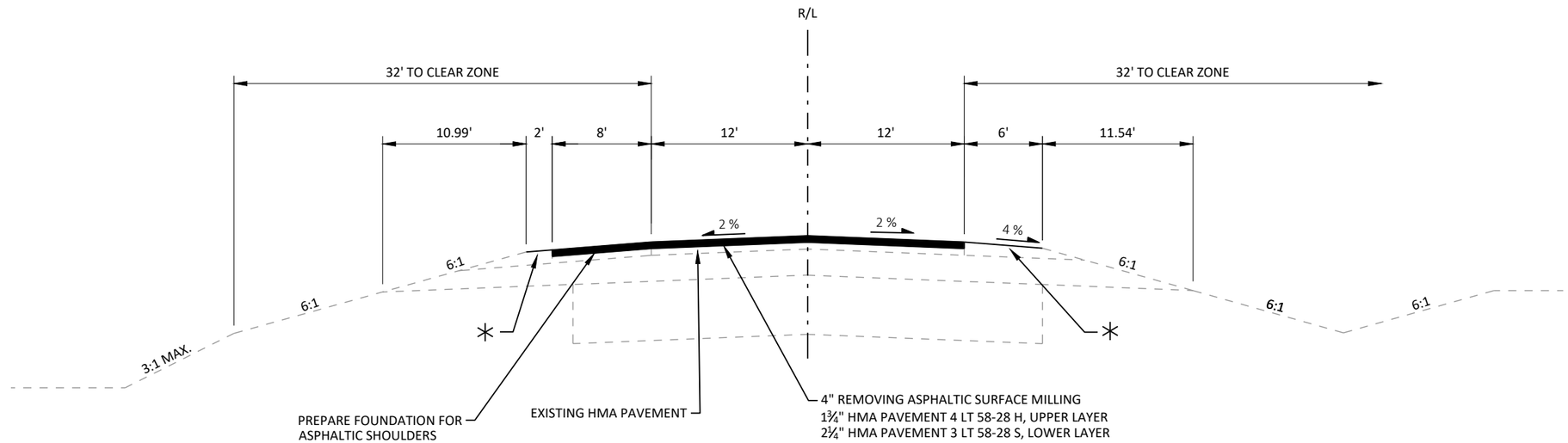


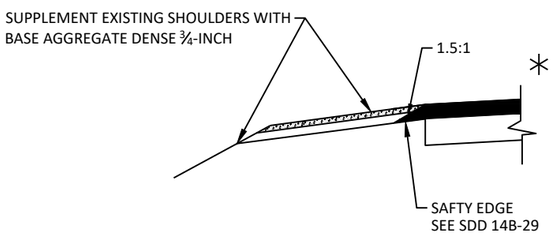


PROPOSED TYPICAL SECTION
STH 36/83 NB RAMP
STA. 211+00 ± TO STA. 215+00 ±

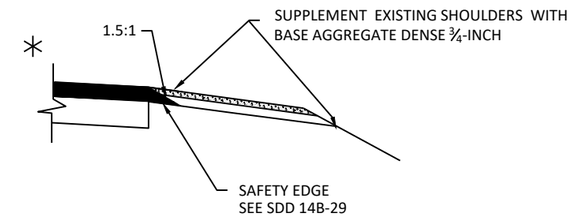
PROJECT NO: 3180-00-78	HWY: VAR HWY	COUNTY: RACINE	TYPICAL SECTIONS	SHEET 22	E

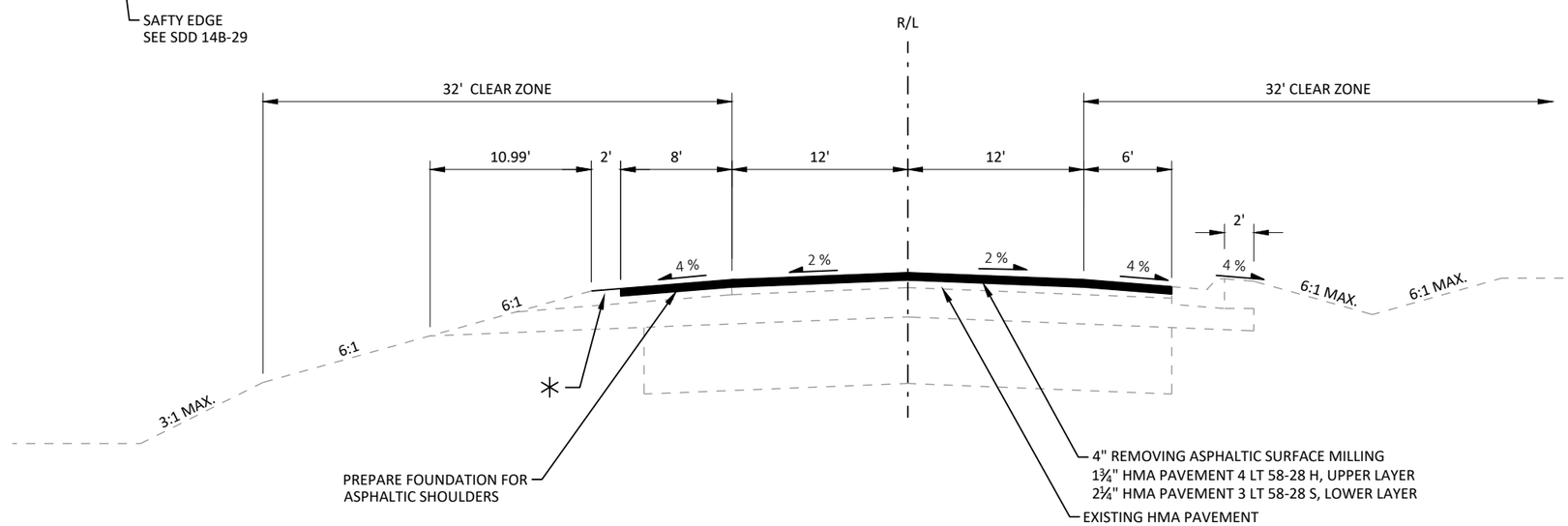
FILE NAME : N:\PDS\C3D\31800008\SHEETS\020302-TS.DWG
LAYOUT NAME - 05-10ft
PLOT DATE : 2/19/2025 9:02 AM PLOT BY : HAYNES, RONNIE PLOT NAME : PLOT SCALE : 1 IN:10 FT
WISDOT/CADDS SHEET 42



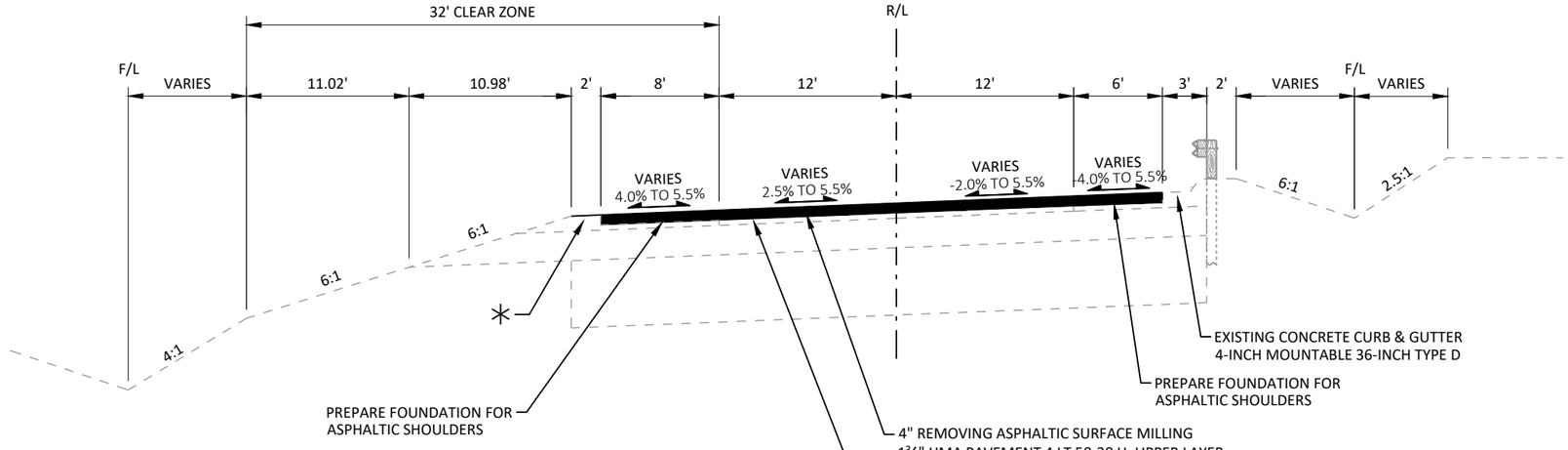


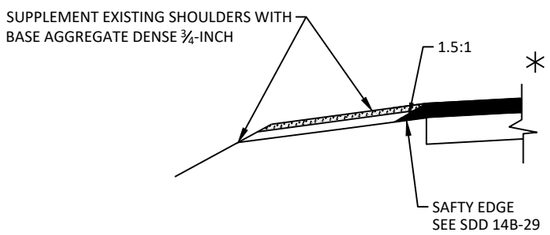
PROPOSED TYPICAL SECTION
STH 36/83 SB RAMP
STA. 183+66 TO STA. 192+00

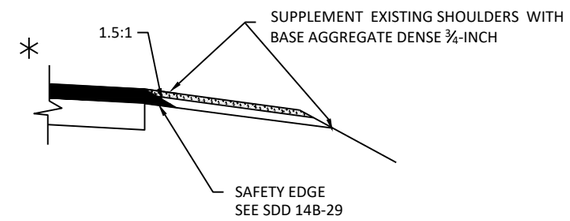




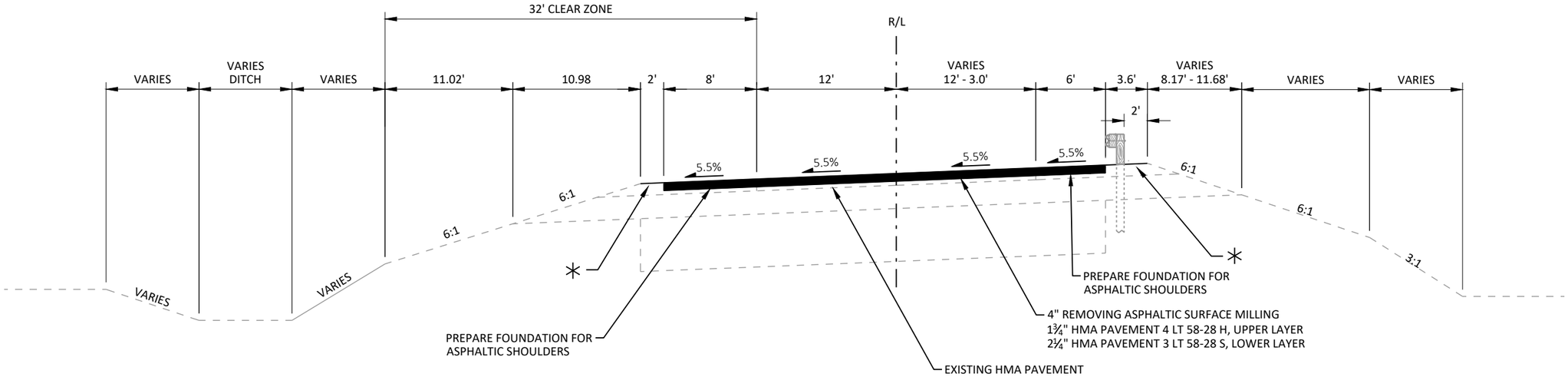
PROPOSED TYPICAL SECTION
STH 36/83 SB RAMP
STA. 192+00 TO STA. 197+00





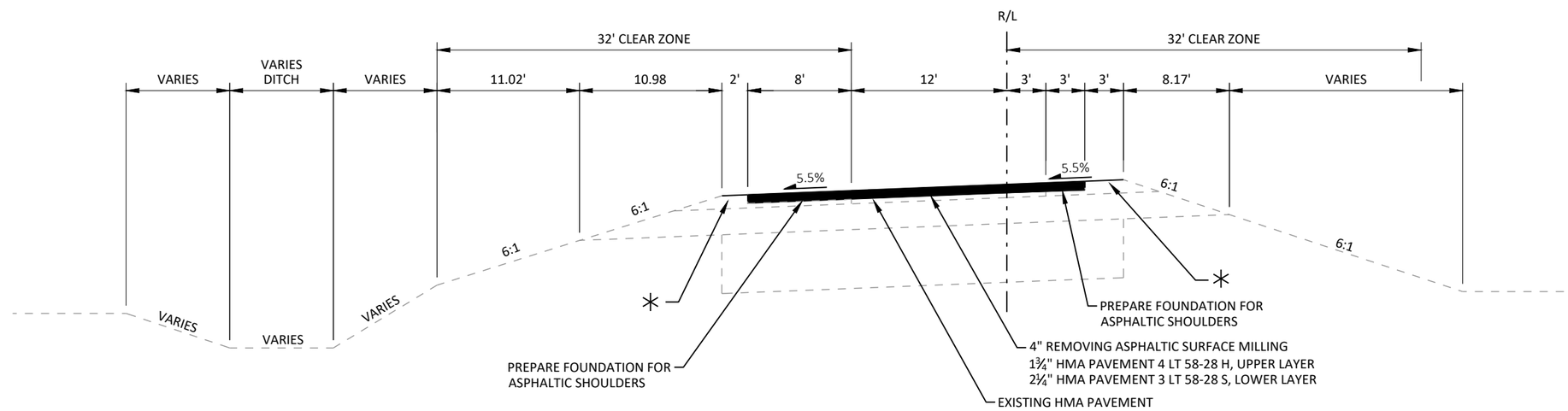


PROPOSED TYPICAL SECTION
STH 36/83 SB RAMP
STA. 197+00 TO STA. 201+50



PROPOSED TYPICAL SECTION
STH 36/83 SB RAMP
STA. 201+50 TO STA. 204+00 ±

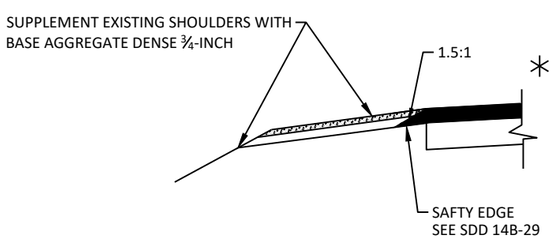
2

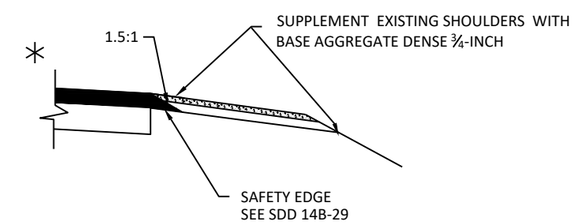


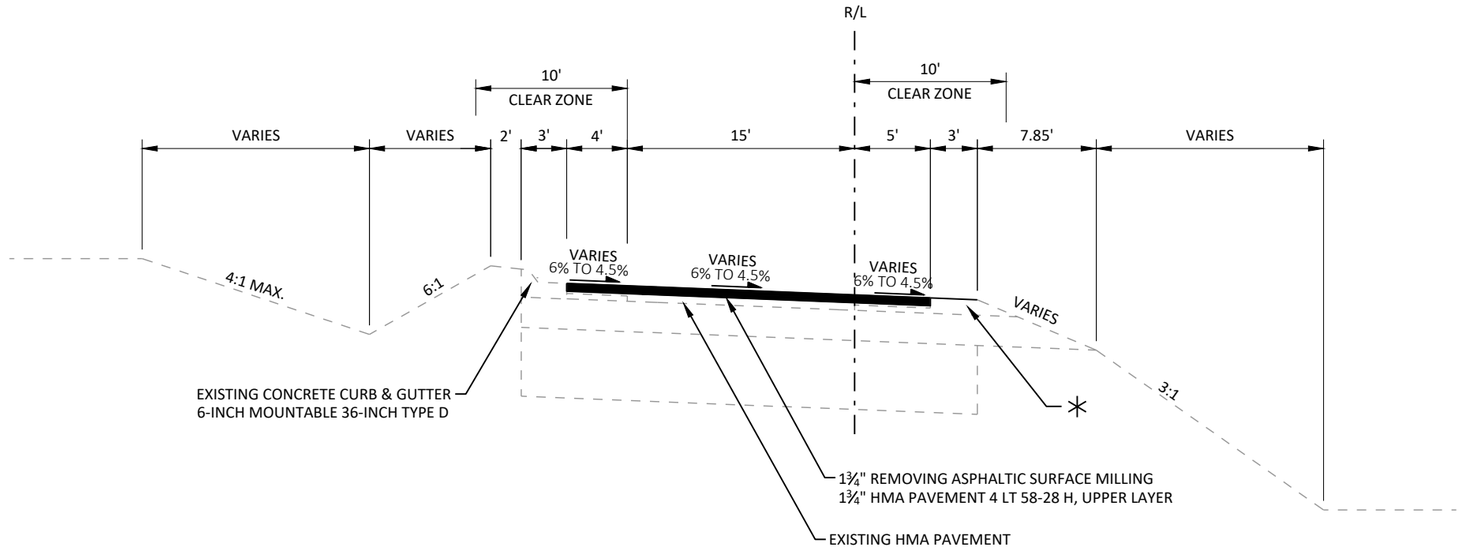
PROPOSED TYPICAL SECTION

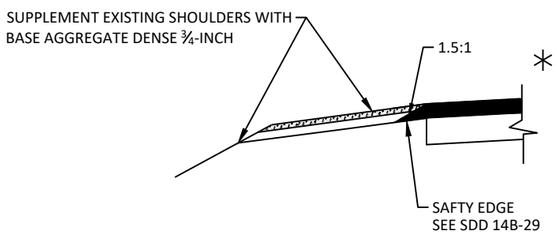
STH 36/83 SB RAMP

STA. 204+00 ± TO STA. 207+50 ±

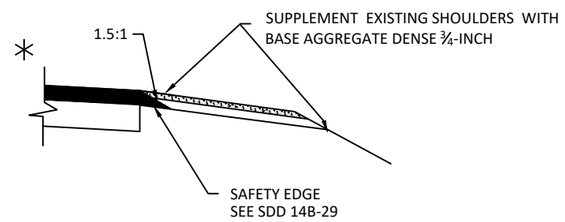


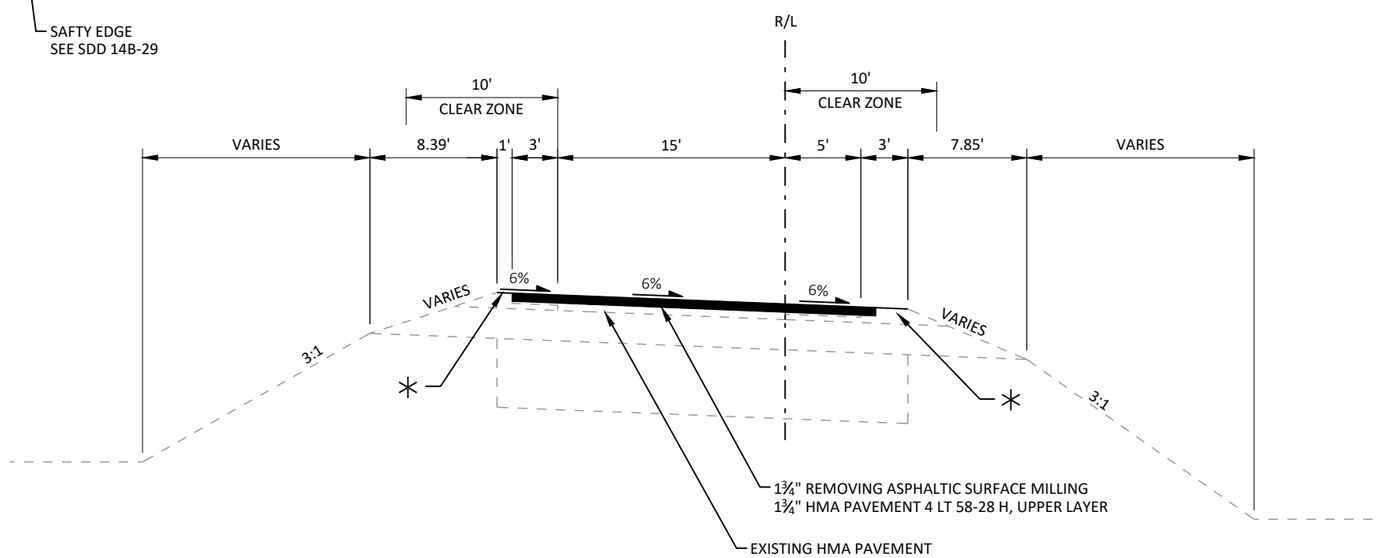




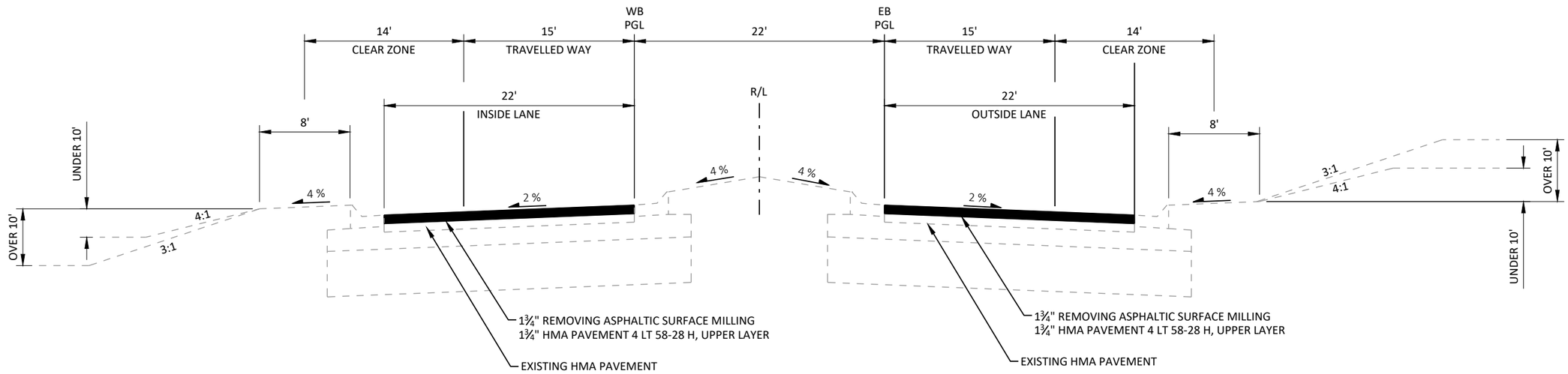


PROPOSED TYPICAL SECTION
STH 36/83 NB TO SB RAMP
STA. 195+85 TO STA. 198+00
STA. 201+50 TO 203+75

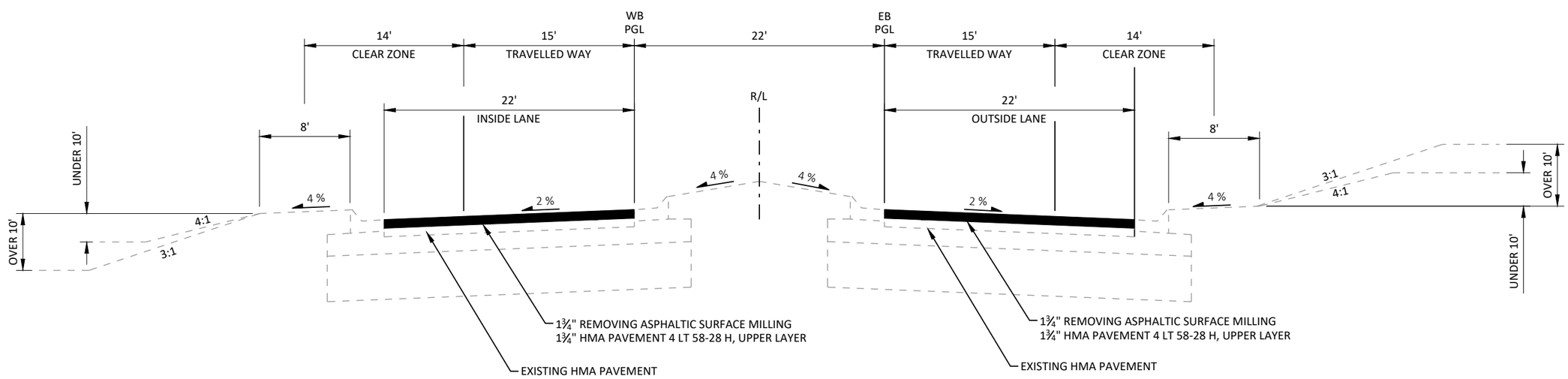




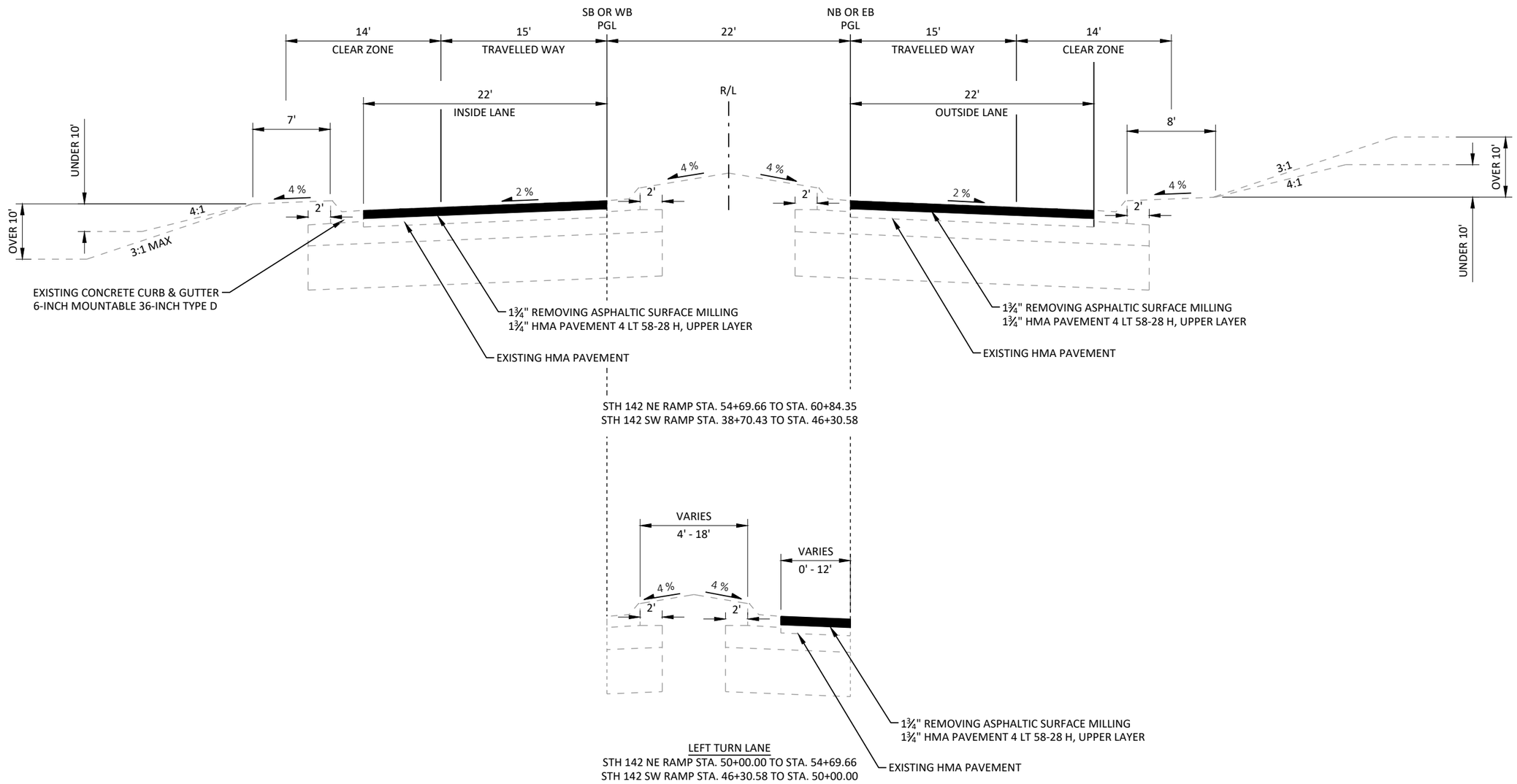
PROPOSED TYPICAL SECTION
STH 36/83 NB TO SB RAMP
STA. 198+00 TO STA. 201+50



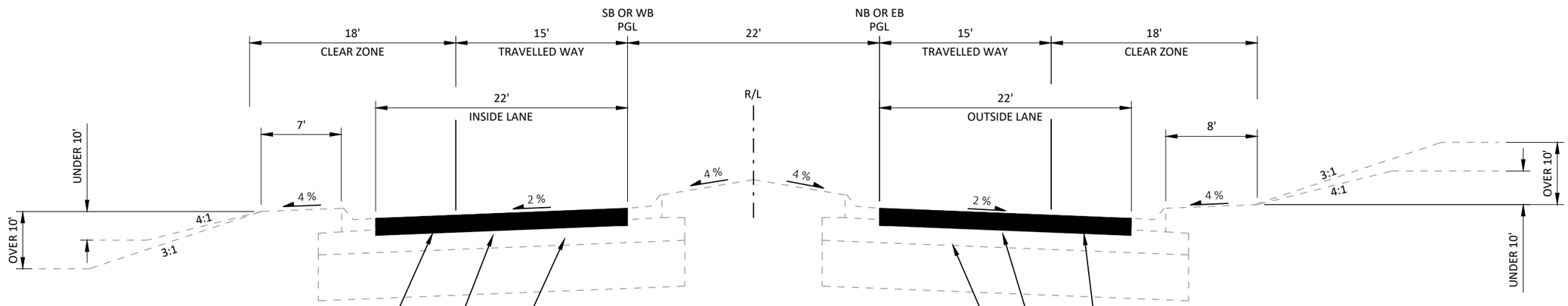
PROPOSED TYPICAL SECTION
CTH A NW RAMP
STA. 50+00.00 TO STA. 58+84.97



PROPOSED TYPICAL SECTION
CTH A SE RAMP
STA. 70+00.00 TO STA. 80+97.11



PROPOSED TYPICAL SECTION
STH 142 RAMP



REMOVE 6¼" EXISTING HMA AND 1" EXISTING BASE AGGREGATE*.
7¼" HMA PAVEMENT
1¾" HMA PAVEMENT 4 MT 58-28 H, UPPER LAYER
2¾" HMA PAVEMENT 3 MT 58-28 S, LOWER LAYER
2¾" HMA PAVEMENT 3 MT 58-28 S, LOWER LAYER

RESTORATION OF BASE AGGREGATE PAID AS
PREPARE FOUNDATION FOR ASPHALTIC PAVING

11" EXISTING BASE AGGREGATE TO REMAIN

REMOVE 6¼" EXISTING HMA AND 1" EXISTING BASE AGGREGATE*.
7¼" HMA PAVEMENT
1¾" HMA PAVEMENT 4 MT 58-28 H, UPPER LAYER
2¾" HMA PAVEMENT 3 MT 58-28 S, LOWER LAYER
2¾" HMA PAVEMENT 3 MT 58-28 S, LOWER LAYER

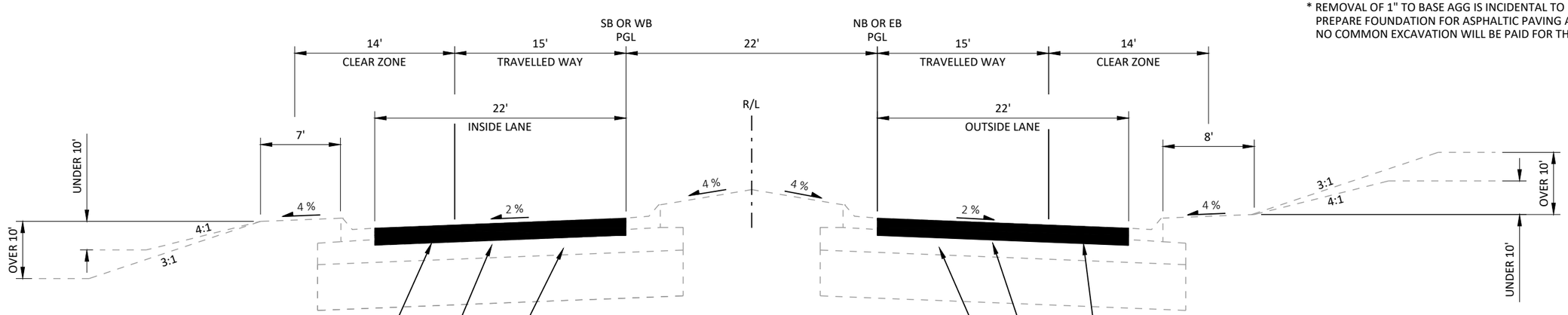
RESTORATION OF BASE AGGREGATE PAID AS
PREPARE FOUNDATION FOR ASPHALTIC PAVING

11" EXISTING BASE AGGREGATE TO REMAIN

PROPOSED TYPICAL SECTION
CTH P SW RAMP
STA. 39+85.62 TO STA. 49+66.63

NOTE:

* REMOVAL OF 1" TO BASE AGG IS INCIDENTAL TO ITEM PREPARE FOUNDATION FOR ASPHALTIC PAVING AND NO COMMON EXCAVATION WILL BE PAID FOR THIS WORK.



REMOVE 6¼" EXISTING HMA AND 1" EXISTING BASE AGGREGATE*.
7¼" HMA PAVEMENT
1¾" HMA PAVEMENT 4 MT 58-28 H, UPPER LAYER
2¾" HMA PAVEMENT 3 MT 58-28 S, LOWER LAYER
2¾" HMA PAVEMENT 3 MT 58-28 S, LOWER LAYER

RESTORATION OF BASE AGGREGATE PAID AS
PREPARE FOUNDATION FOR ASPHALTIC PAVING

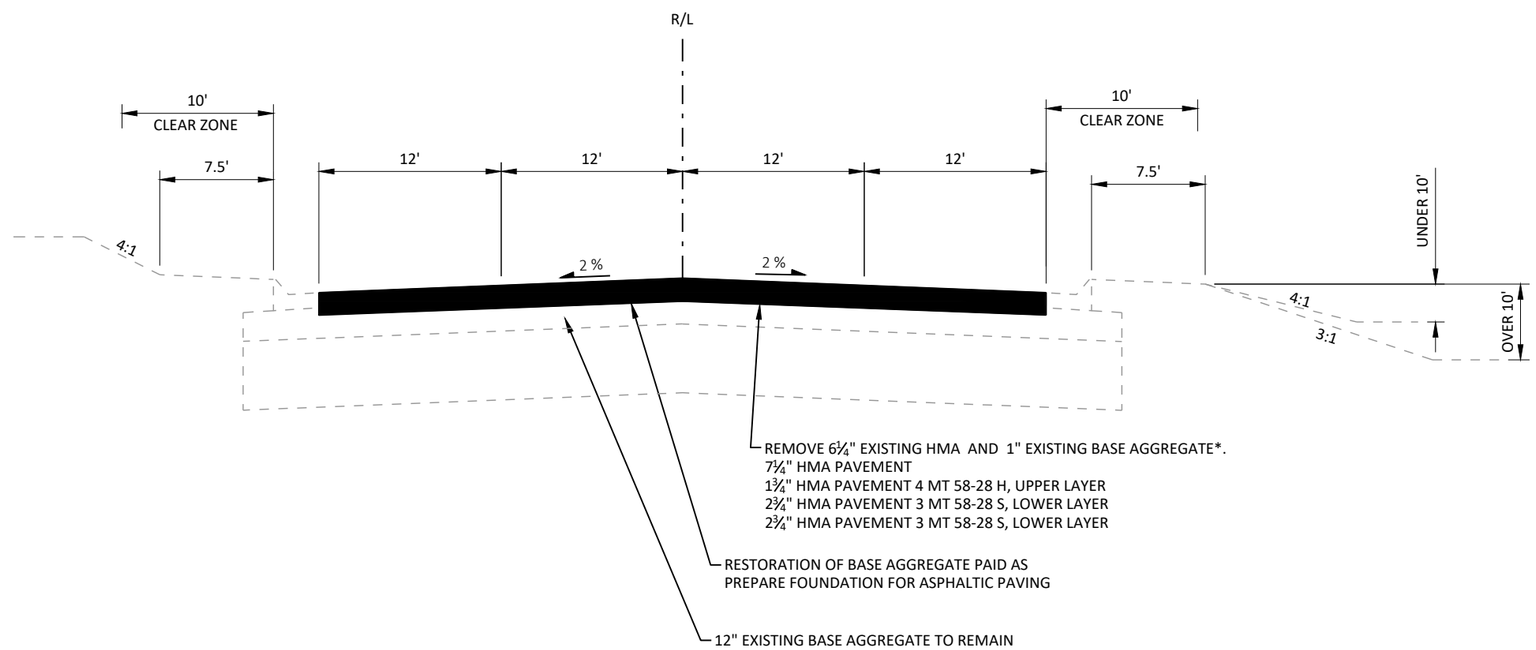
11" EXISTING BASE AGGREGATE TO REMAIN

REMOVE 6¼" EXISTING HMA AND 1" EXISTING BASE AGGREGATE*.
7¼" HMA PAVEMENT
1¾" HMA PAVEMENT 4 MT 58-28 H, UPPER LAYER
2¾" HMA PAVEMENT 3 MT 58-28 S, LOWER LAYER
2¾" HMA PAVEMENT 3 MT 58-28 S, LOWER LAYER

RESTORATION OF BASE AGGREGATE PAID AS
PREPARE FOUNDATION FOR ASPHALTIC PAVING

11" EXISTING BASE AGGREGATE TO REMAIN

PROPOSED TYPICAL SECTION
CTH P NE RAMP
STA. 50+00.00 TO STA. 57+19.63

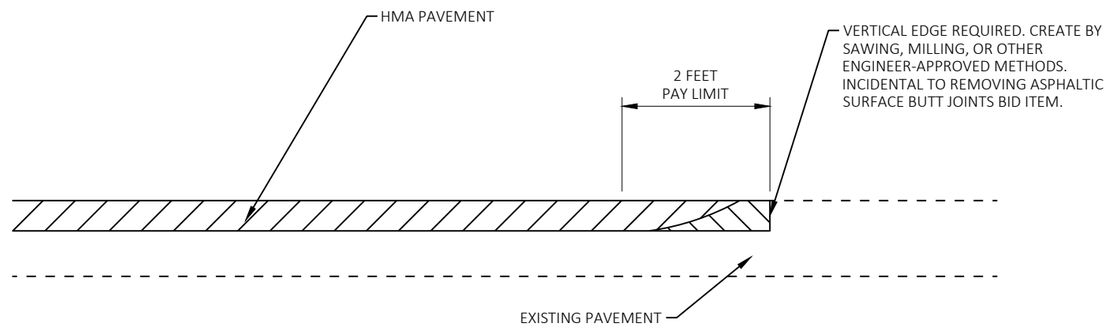


PROPOSED TYPICAL URBAN 4-LANE UNDIVIDED SECTION

BROOKVIEW AVE. STA. 10+00.00 TO STA. 14+95.82

NOTE:

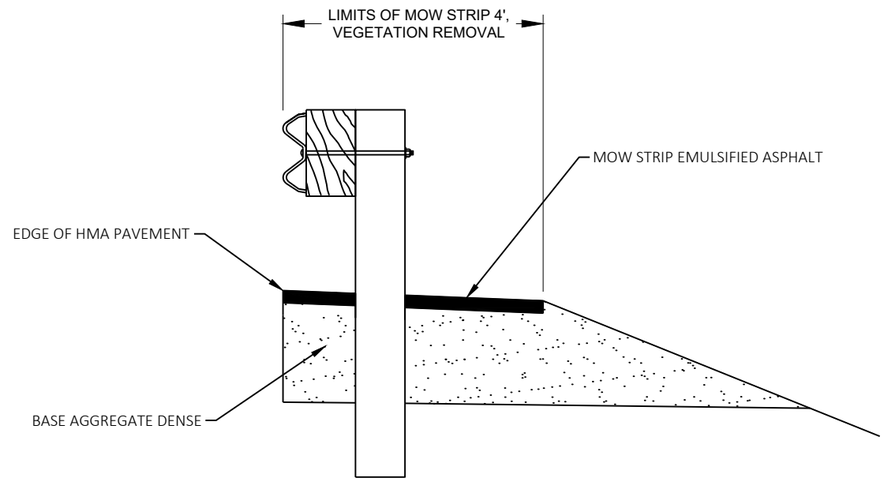
* REMOVAL OF 1" TO BASE AGG IS INCIDENTAL TO ITEM PREPARE FOUNDATION FOR ASPHALTIC PAVING AND NO COMMON EXCAVATION WILL BE PAID FOR THIS WORK.



REMOVE MATERIAL UNDER ITEM 'REMOVING ASPHALTIC SURFACE BUTT JOINT'

REMOVING ASPHALTIC SURFACE MILLING

BUTT JOINT - NO CHANGE IN PROFILE



GUARDRAIL MOW STRIP EMULSIFIED ASPHALT LIMITS

NOTE:

SEE SDD GUARDRAIL MOW STRIP FOR ADDITIONAL DETAILS

STH 11/36 R/L STA. 1045+80.55 =
CTH P SW RAMP R/L STA. 39+24.61

STH 11/STH 36

1044 1046 1048 1050 1052 1054 1056 1058

BP: 39+24.61

BP: 50+00.00

STH 11 WB / STH 36 SB

STH 11 EB / STH 36 NB

CTH P/MCHENRY ST

CTH P/MCHENRY ST

CTH P SB

CTH P NB

CTH P NE ON RAMP

CTH P NE OFF RAMP

N

TYPE C

TYPE C

END CONSTRUCTION
STA. 50+94
MATCH EXISTING

R/L CTH P NE RAMPS

TYPE C

STH 11/36 R/L STA. 1057+78.42 =
CTH P NE RAMP R/L STA. 50+00.00

BEGIN PROJECT
STA 40+39
MATCH EXISTING

40

TYPE D

TYPE D

PC: 41+49.02

CTH P SW OFF RAMP

CTH P SW ON RAMP

42

R/L CTH P SW RAMPS

44

PT: 46+39.50

TYPE C

TYPE C

EP: 50+00.00

46

48

50

CAUTION

TYPE C

TYPE C

END CONSTRUCTION
STA. 48+66
MATCH EXISTING

BERM

POSTS

SLAB

POST

RIPRAP

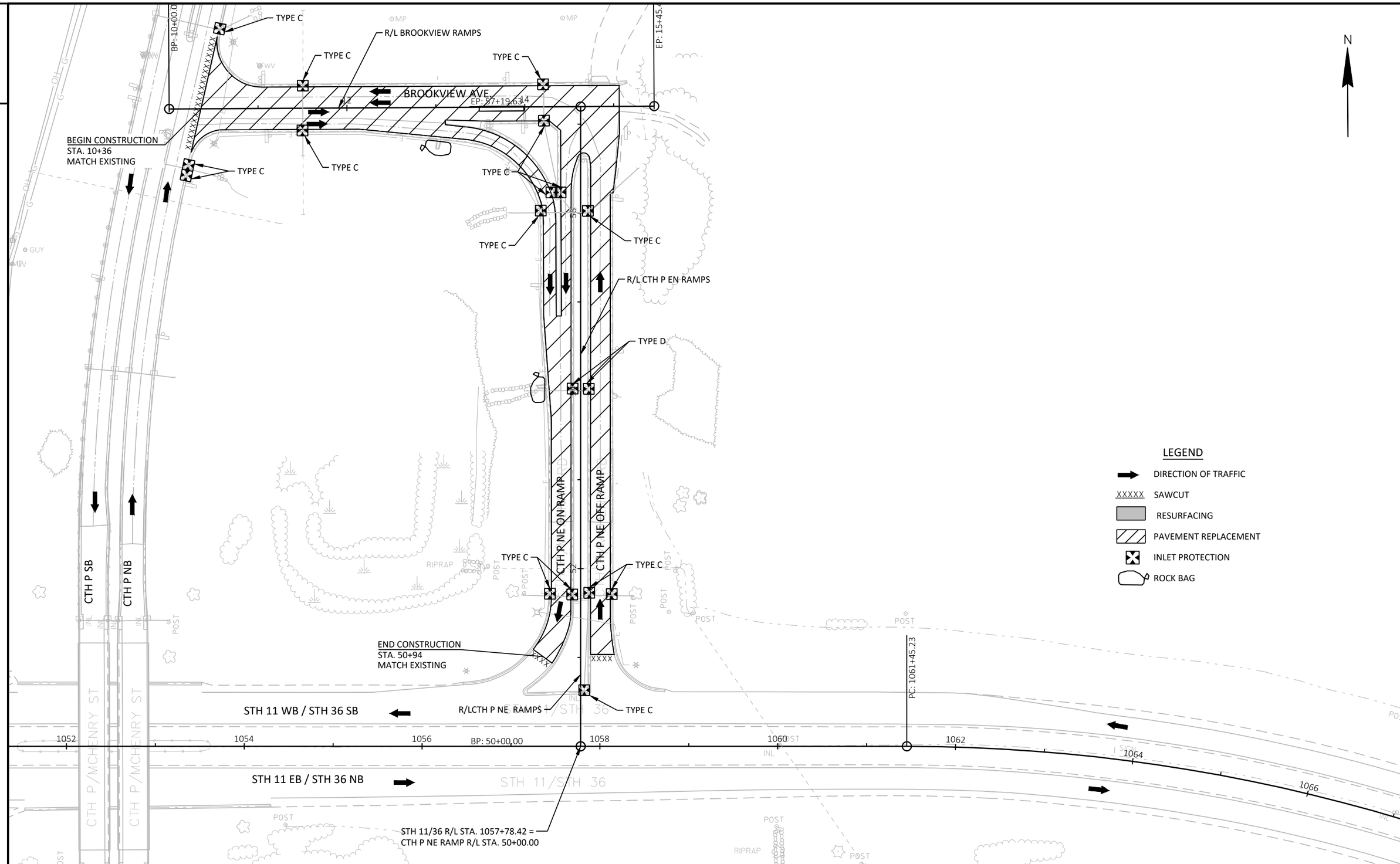
STATUE

INL

LEGEND

- DIRECTION OF TRAFFIC
- XXXXX SAWCUT
- RESURFACING
- PAVEMENT REPLACEMENT
- INLET PROTECTION
- ROCK BAG

PROJECT NO: 3180-00-78	HWY: VAR HWY	COUNTY: RACINE	PLAN DETAILS - CTH P RAMPS	SHEET 33	E



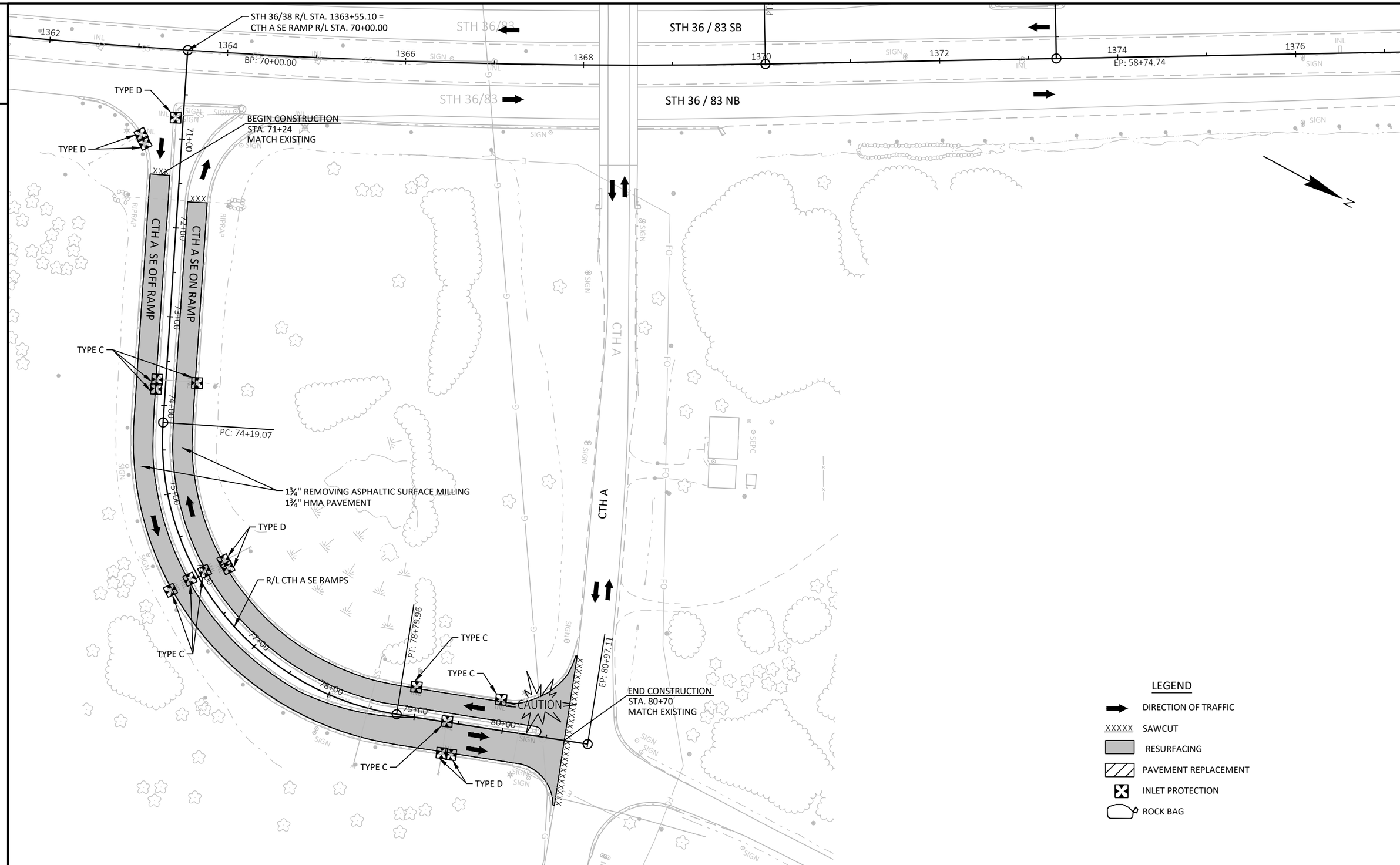
PROJECT NO: 3180-00-78	HWY: VAR HWY	COUNTY: RACINE	PLAN DETAILS - CTH P RAMPS	SHEET 34	E

FILE NAME : N:\PDS\C3D\31800008\SHEETS\021201-PD.DWG
LAYOUT NAME - 02102-pd
PLOT DATE : 10/29/2024 6:10 AM
PLOT BY : HAYNES, RONNIE
PLOT NAME :
PLOT SCALE : 1 IN:100 FT
WISDOT/CADDS SHEET 42

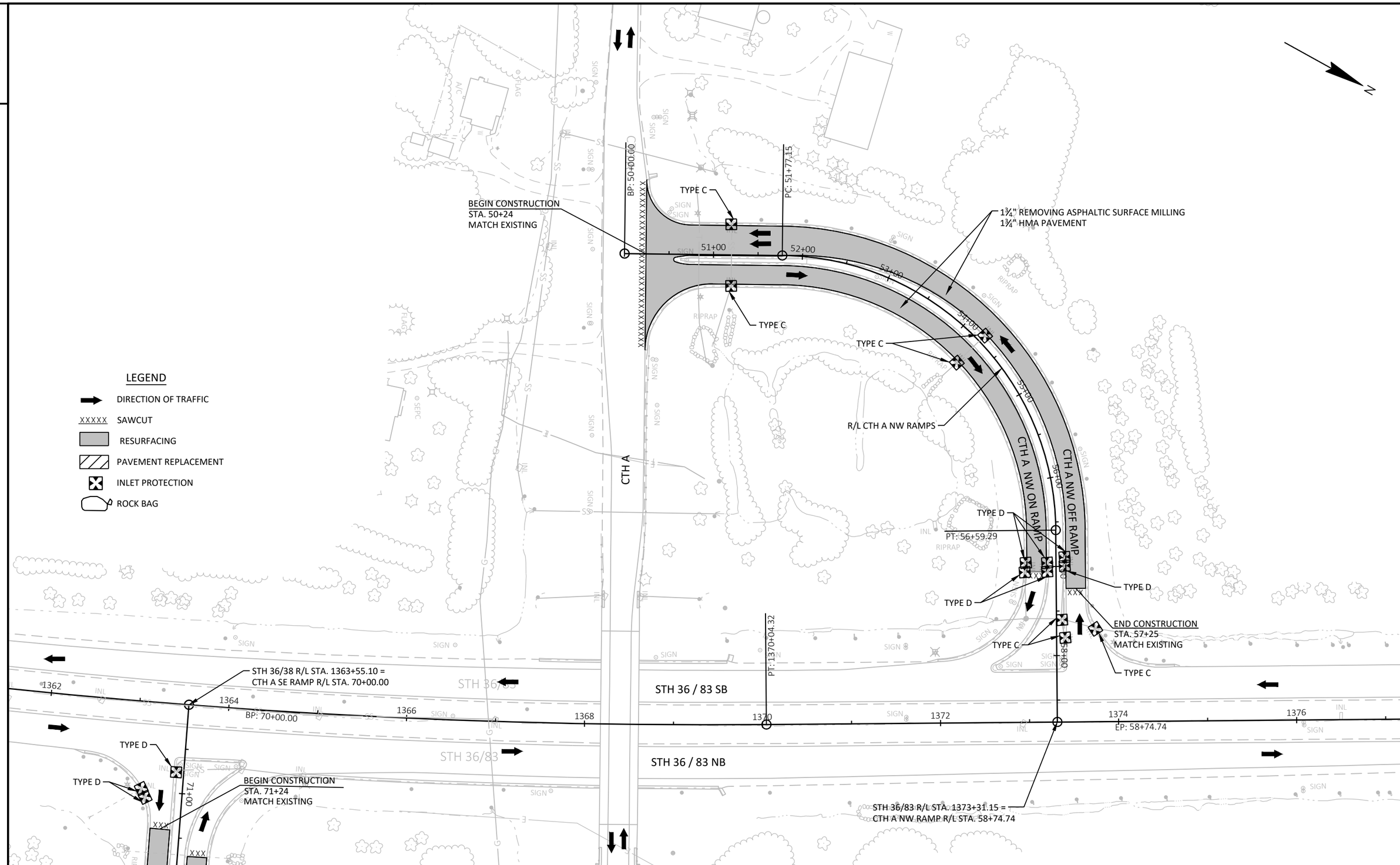
STH 142 NE OFF RAMP
STH 142 NE ON RAMP
TYPE C
TYPE D
PT: 57+84.
R/L STH 142 NE RAMPS
1¾" REMOVING ASPHALTIC SURFACE MILLING
1¾" HMA PAVEMENT
PC: 52+01.94
EP: 60+63.18
END CONSTRUCTION
STA. 59+66
MATCH EXISTING
STH 11/36/83 R/L STA. 1177+45.63 =
STH 142 NW RAMP R/L STA. 60+63.18
STH 11 WB / 36/83 SB
STH 11 EB / 36/83 NB
STH 142
SHNELL RD
BP: 50+00.00
BEGIN CONSTRUCTION
STA. 50+24
MATCH EXISTING
STH 11/36/83 R/L STA. 1171+58.10 =
STH 142 SE RAMP R/L STA. 38+91.60
BP: 38+91.60
BEGIN CONSTRUCTION
STA. 39+89
MATCH EXISTING
STH 142 SW ON RAMP
STH 142 SW OFF RAMP
PC: 42+83.40
R/L STH 142 SW RAMPS
EP: 50+00.00
END CONSTRUCTION
STA. 49+75
MATCH EXISTING
PT: 48+66.12
RIPRAP
N

LEGEND

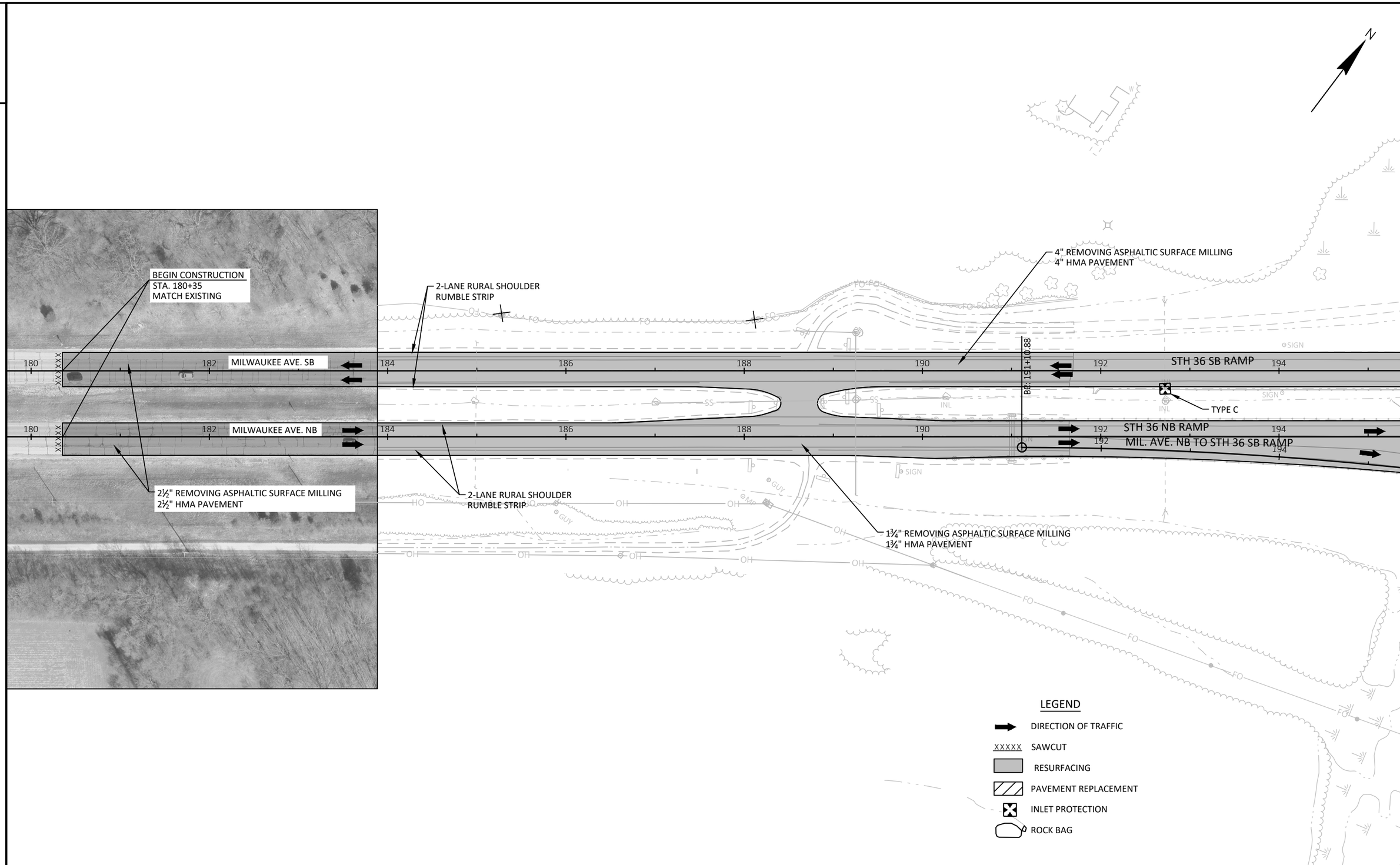
- DIRECTION OF TRAFFIC
- XXXXX SAWCUT
- RESURFACING
- PAVEMENT REPLACEMENT
- INLET PROTECTION
- ROCK BAG

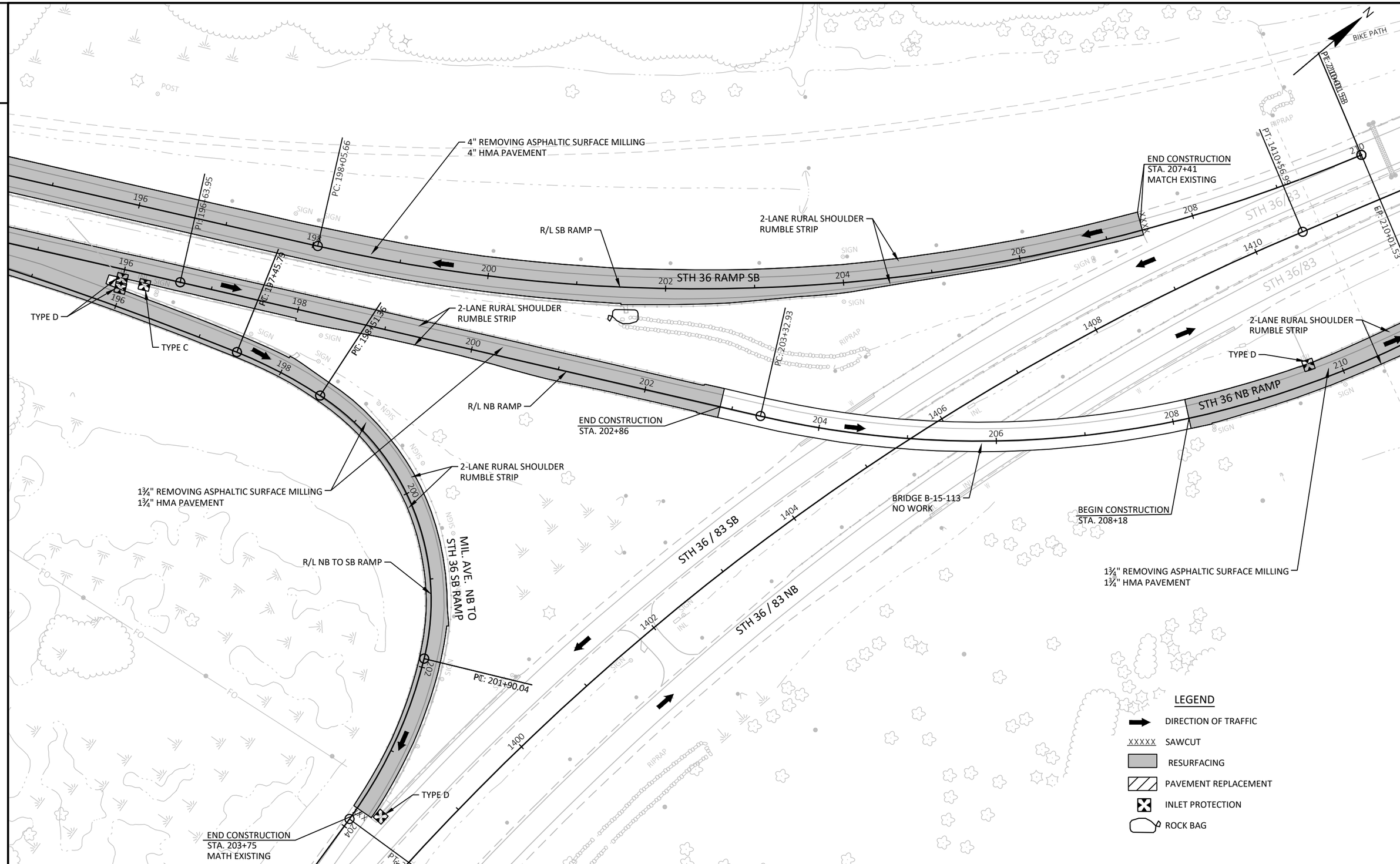


PROJECT NO: 3180-00-78	HWY: VAR HWY	COUNTY: RACINE	PLAN DETAILS - CTH A	SHEET 36	E

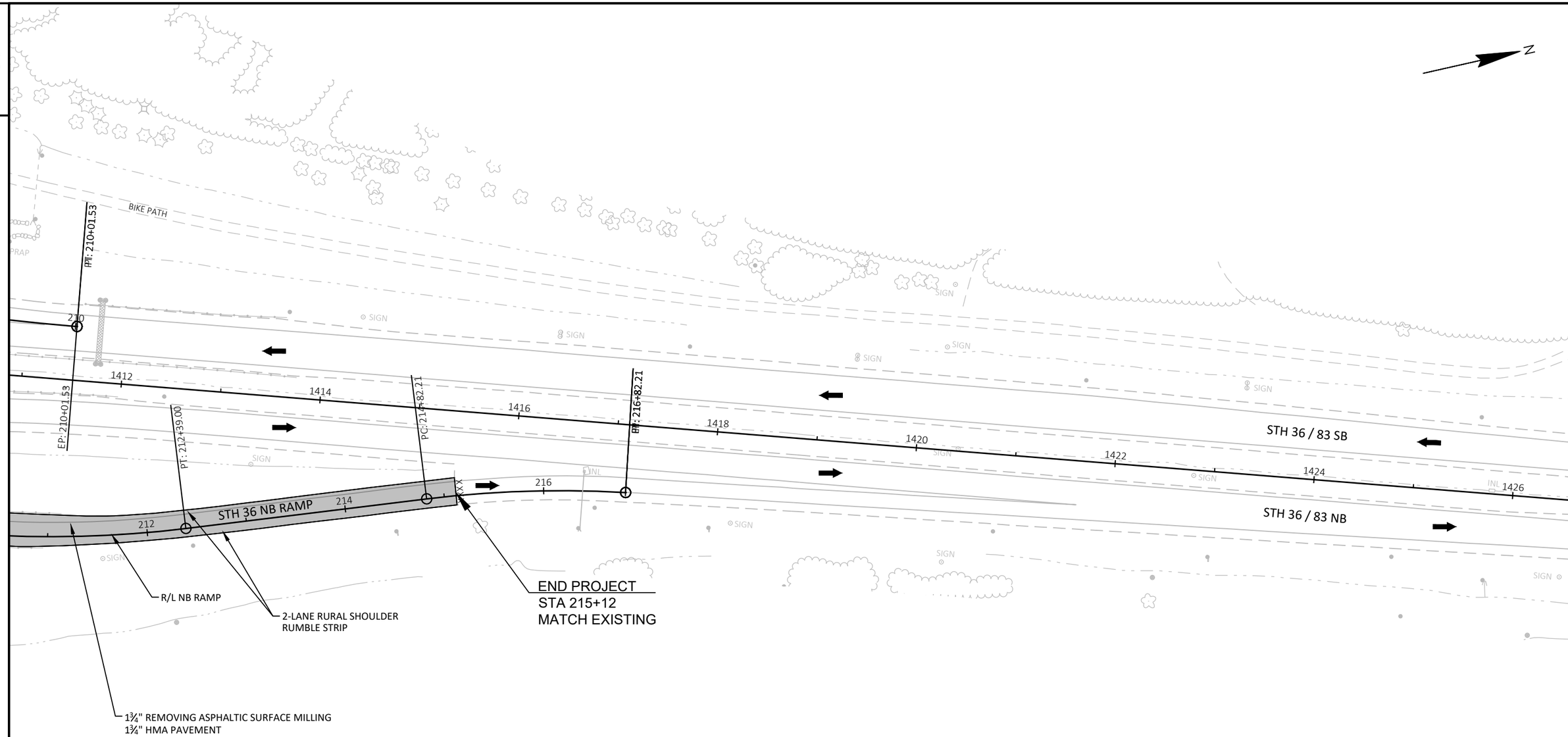


PROJECT NO: 3180-00-78	HWY: VAR HWY	COUNTY: RACINE	PLAN DETAILS - CTH A	SHEET 37	E


BEGIN CONSTRUCTION
STA. 180+35
MATCH EXISTING
2-LANE RURAL SHOULDER
RUMBLE STRIP
4" REMOVING ASPHALTIC SURFACE MILLING
4" HMA PAVEMENT
MILWAUKEE AVE. SB
MILWAUKEE AVE. NB
STH 36 SB RAMP
STH 36 NB RAMP
MIL. AVE. NB TO STH 36 SB RAMP
BR: 191+10.88
TYPE C
180
182
184
186
188
190
192
194
2½" REMOVING ASPHALTIC SURFACE MILLING
2½" HMA PAVEMENT
2-LANE RURAL SHOULDER
RUMBLE STRIP
1¾" REMOVING ASPHALTIC SURFACE MILLING
1¾" HMA PAVEMENT
LEGEND
DIRECTION OF TRAFFIC
XXXXX SAWCUT
RESURFACING
PAVEMENT REPLACEMENT
INLET PROTECTION
ROCK BAG



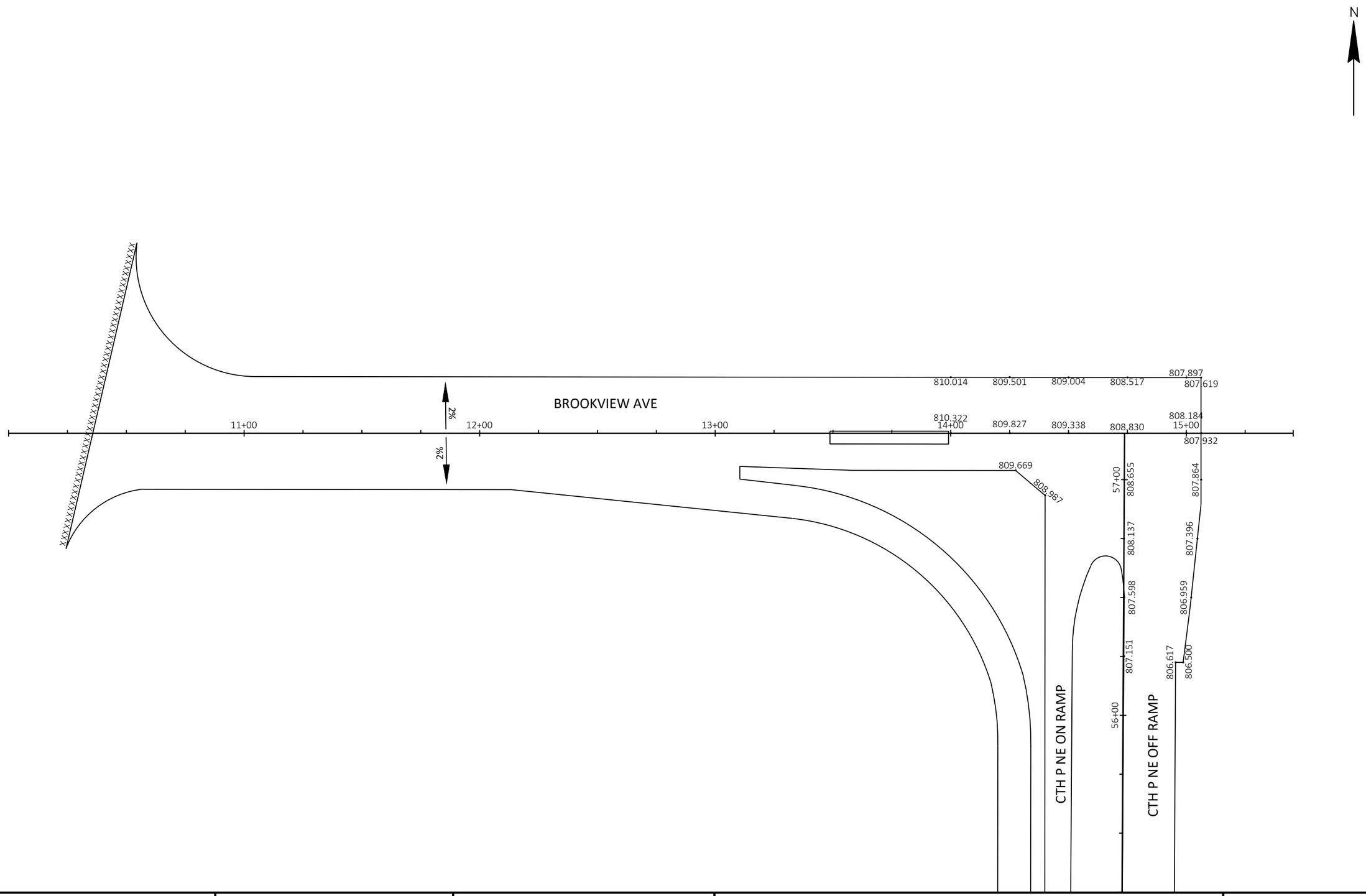
PROJECT NO: 3180-00-78	HWY: VAR HWY	COUNTY: RACINE	PLAN DETAILS	SHEET 39	E



LEGEND

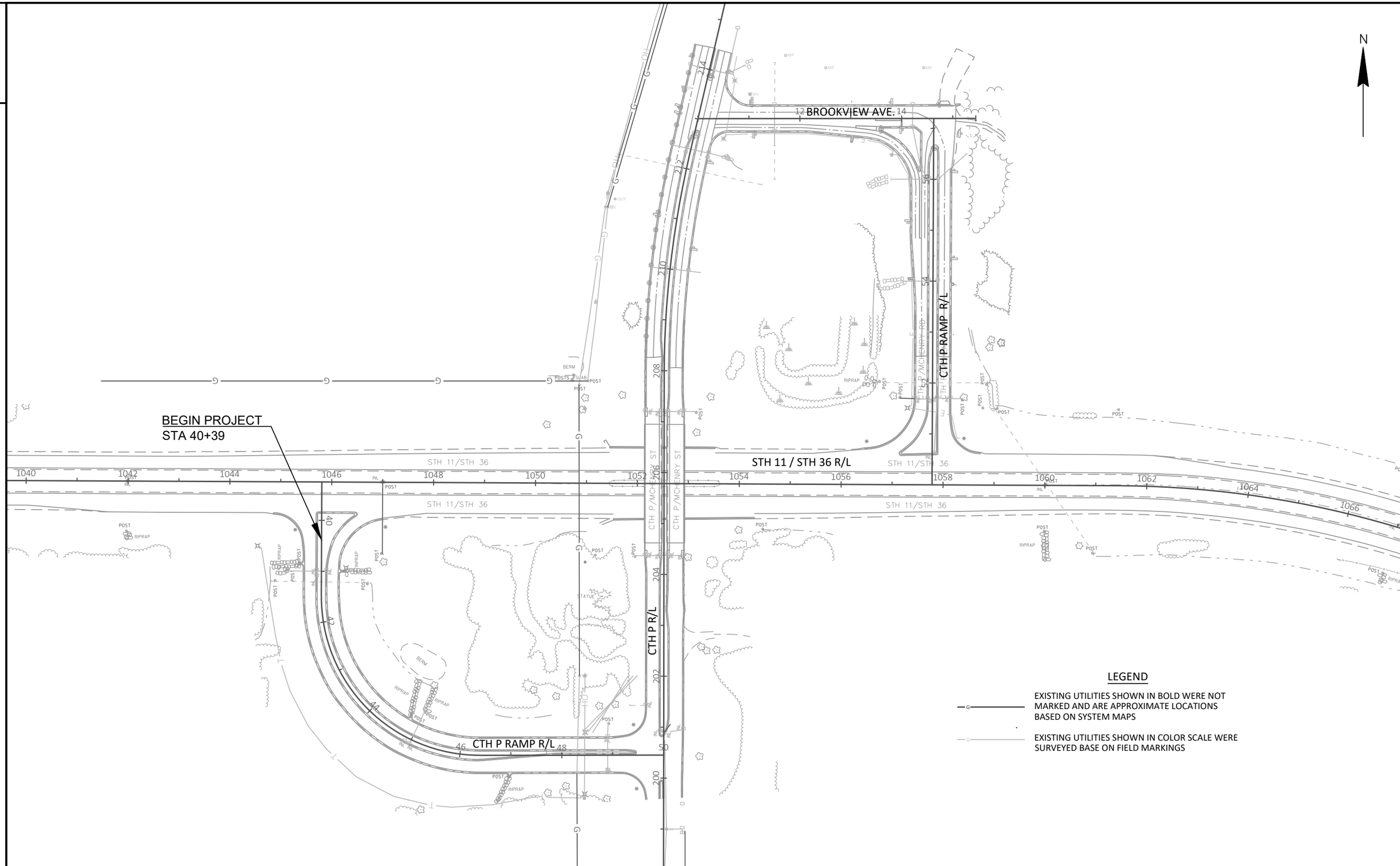
- DIRECTION OF TRAFFIC
- XXXXX SAWCUT
- RESURFACING
- PAVEMENT REPLACEMENT
- INLET PROTECTION
- ROCK BAG

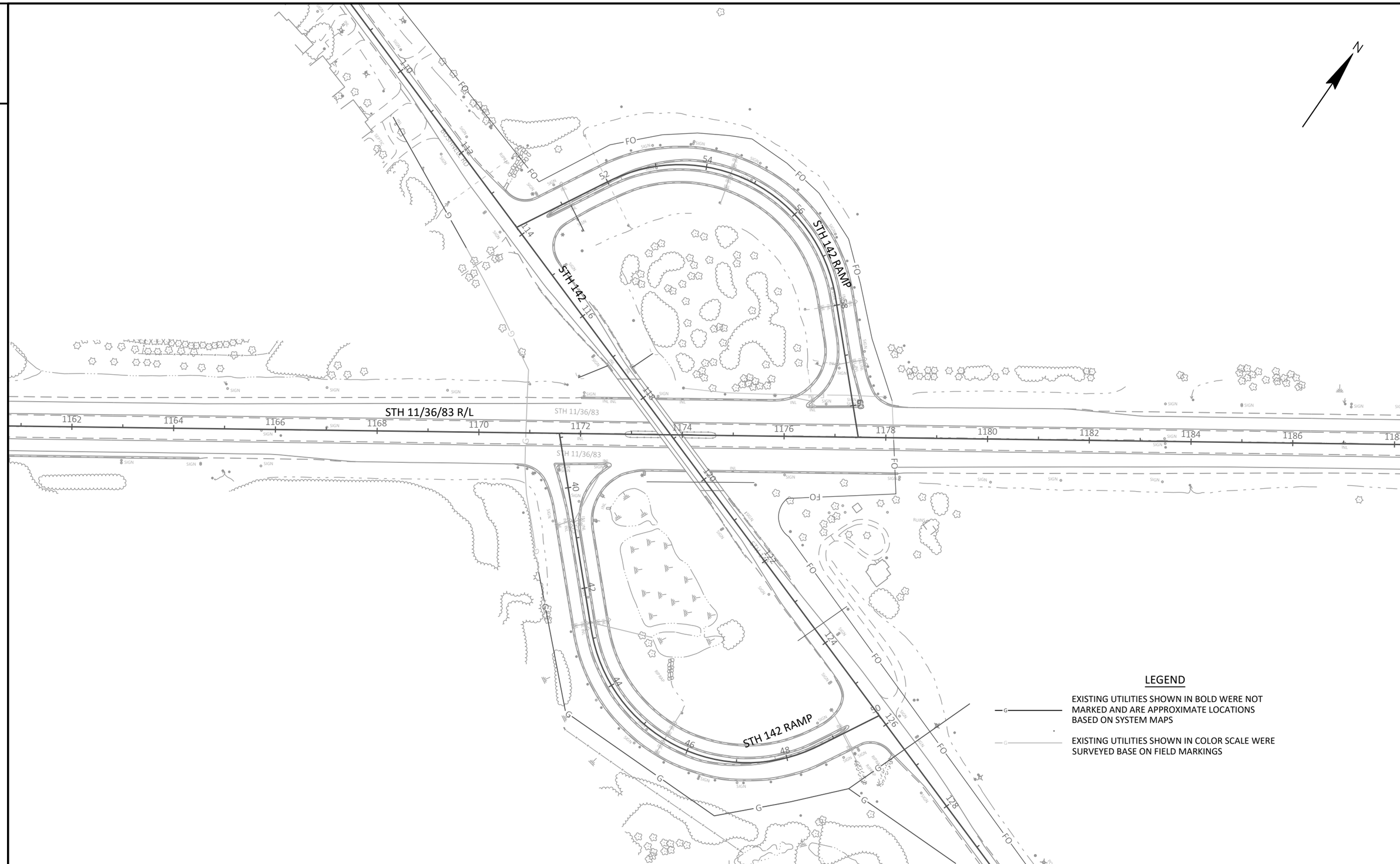
PROJECT NO: 3180-00-78	HWY: VAR HWY	COUNTY: RACINE	PLAN DETAILS	SHEET 40	E



PROJECT NO: 3180-00-78	HWY: VAR HWY	COUNTY: RACINE	PAVEMENT GRADES	SHEET 41	E

FILE NAME : N:\PDS\C3D\31800008\SHEETS\021301-PG.DWG
LAYOUT NAME - 021301-pg
PLOT DATE : 10/29/2024 7:31 AM
PLOT BY : HAYNES, RONNIE
PLOT NAME :
PLOT SCALE : 1 IN:40 FT


N
BROOKVIEW AVE.
CTH P RAMP R/L
STH 11 / STH 36 R/L
BEGIN PROJECT
STA 40+39
STH 11/STH 36
CTH P/MCHENRY ST
CTH P R/L
CTH P RAMP R/L
LEGEND
EXISTING UTILITIES SHOWN IN BOLD WERE NOT MARKED AND ARE APPROXIMATE LOCATIONS BASED ON SYSTEM MAPS
EXISTING UTILITIES SHOWN IN COLOR SCALE WERE SURVEYED BASE ON FIELD MARKINGS



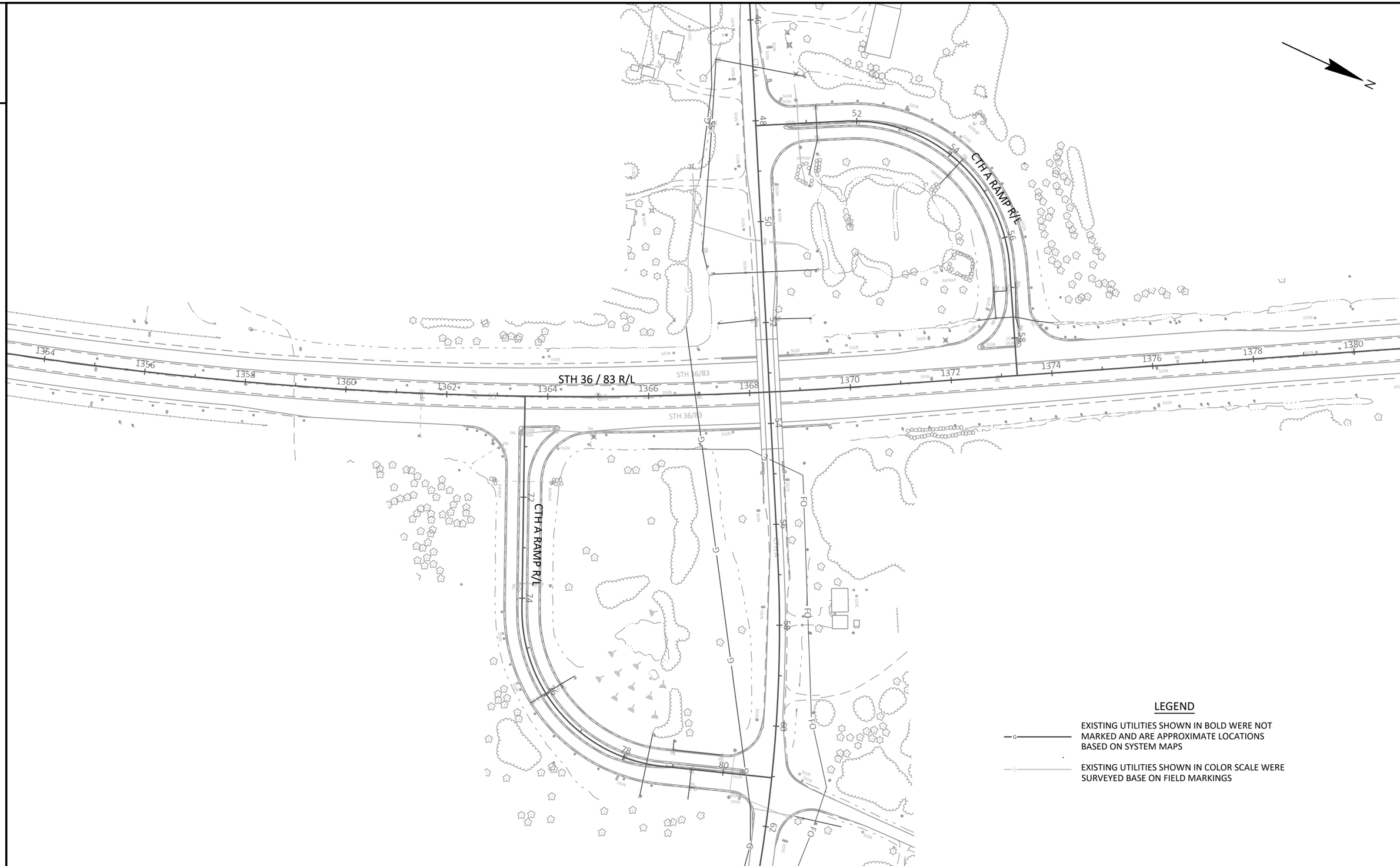
LEGEND

EXISTING UTILITIES SHOWN IN BOLD WERE NOT MARKED AND ARE APPROXIMATE LOCATIONS BASED ON SYSTEM MAPS

EXISTING UTILITIES SHOWN IN COLOR SCALE WERE SURVEYED BASE ON FIELD MARKINGS

PROJECT NO: 3180-00-78	HWY: VAR HWY	COUNTY: RACINE	UTILITY PLAN	SHEET 43	E

FILE NAME : N:\PDS\C3D\31800008\SHEETS\023001-UP.DWG
LAYOUT NAME - 02-up
PLOT DATE : 10/29/2024 7:40 AM
PLOT BY : HAYNES, RONNIE
PLOT NAME :
PLOT SCALE : 1 IN:175 FT



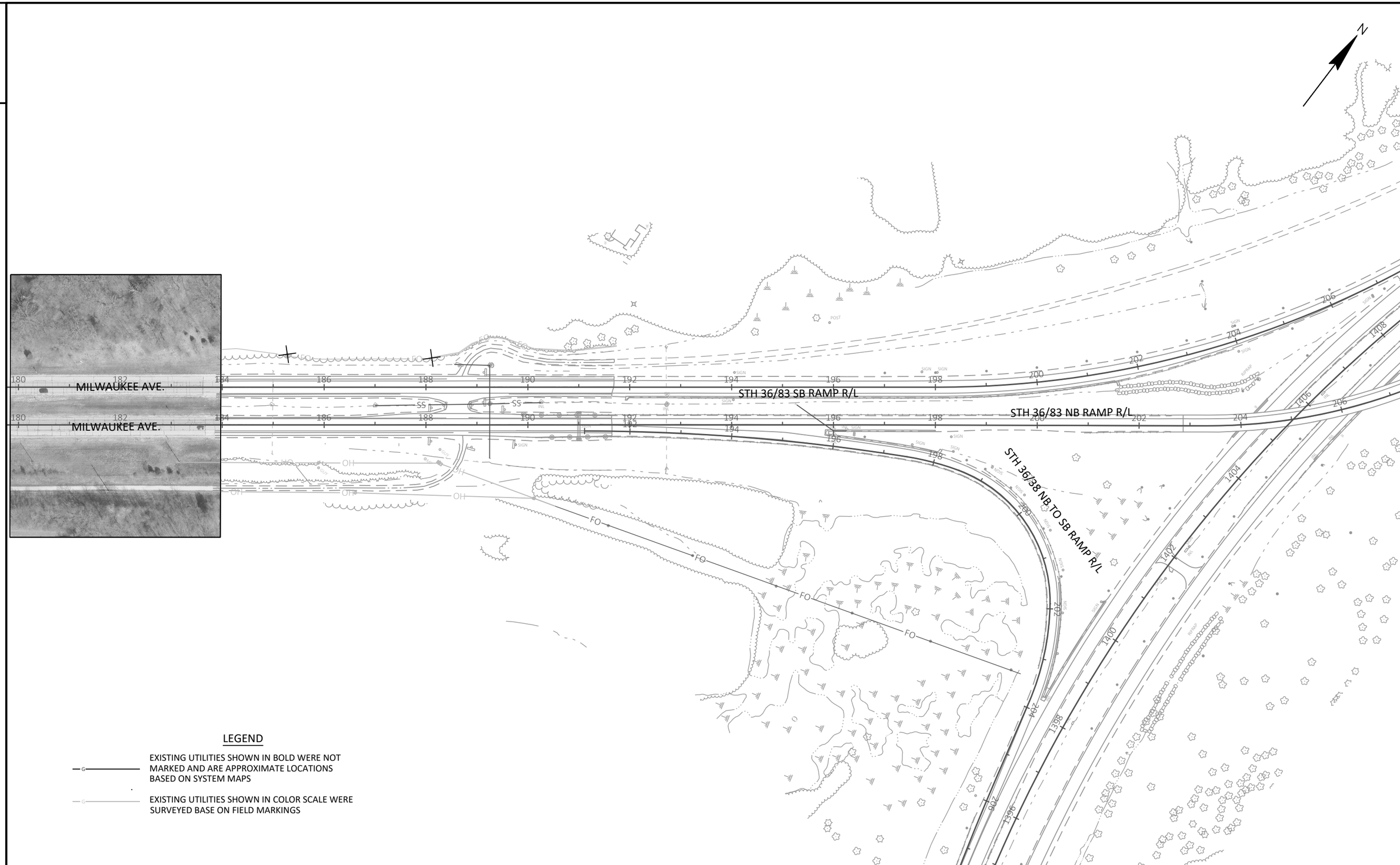
LEGEND

EXISTING UTILITIES SHOWN IN BOLD WERE NOT MARKED AND ARE APPROXIMATE LOCATIONS BASED ON SYSTEM MAPS

EXISTING UTILITIES SHOWN IN COLOR SCALE WERE SURVEYED BASE ON FIELD MARKINGS

PROJECT NO: 3180-00-78	HWY: VAR HWY	COUNTY: RACINE	UTILITY PLAN	SHEET 44	E

FILE NAME : N:\PDS\C3D\31800008\SHEETS\023001-UP.DWG
LAYOUT NAME - 03-up
PLOT DATE : 10/29/2024 7:41 AM
PLOT BY : HAYNES, RONNIE
PLOT NAME :
PLOT SCALE : Custom

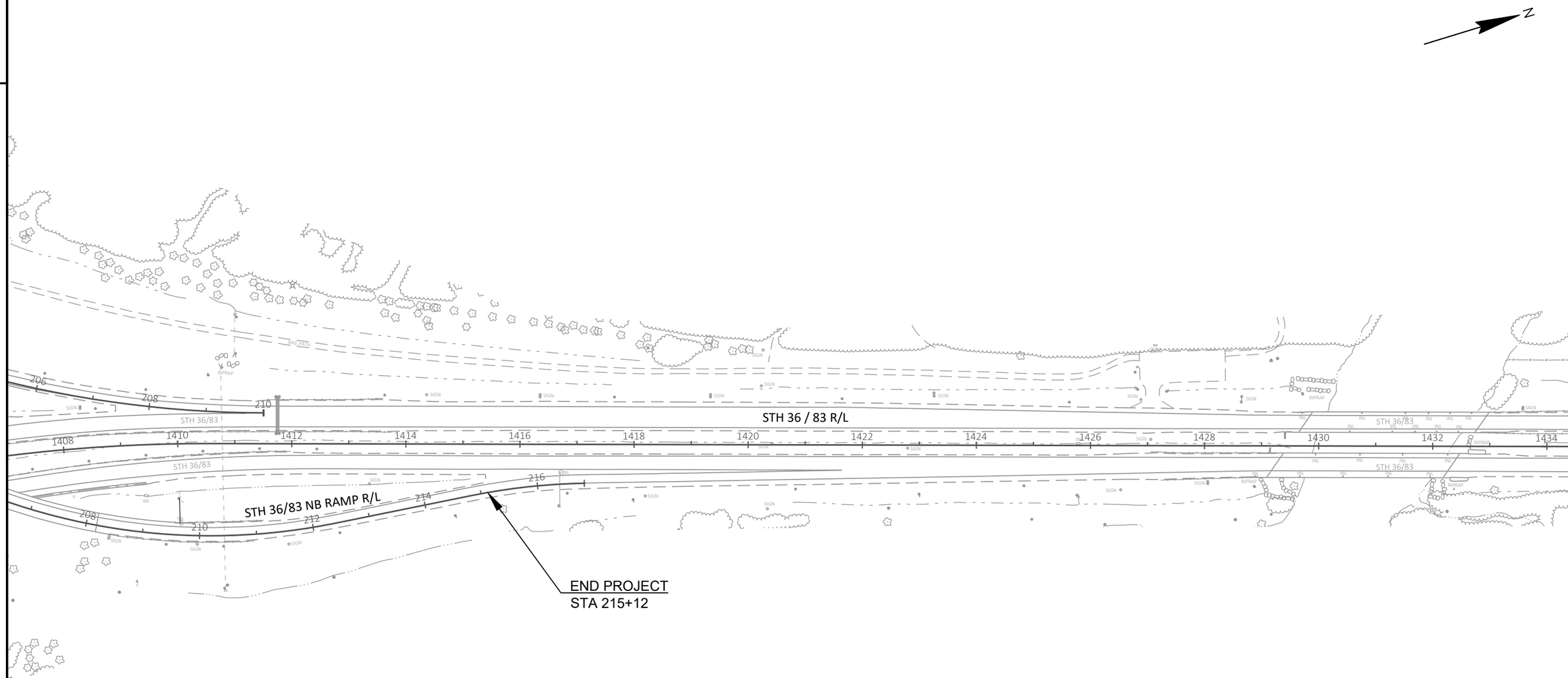


LEGEND

EXISTING UTILITIES SHOWN IN BOLD WERE NOT MARKED AND ARE APPROXIMATE LOCATIONS BASED ON SYSTEM MAPS

EXISTING UTILITIES SHOWN IN COLOR SCALE WERE SURVEYED BASE ON FIELD MARKINGS

2



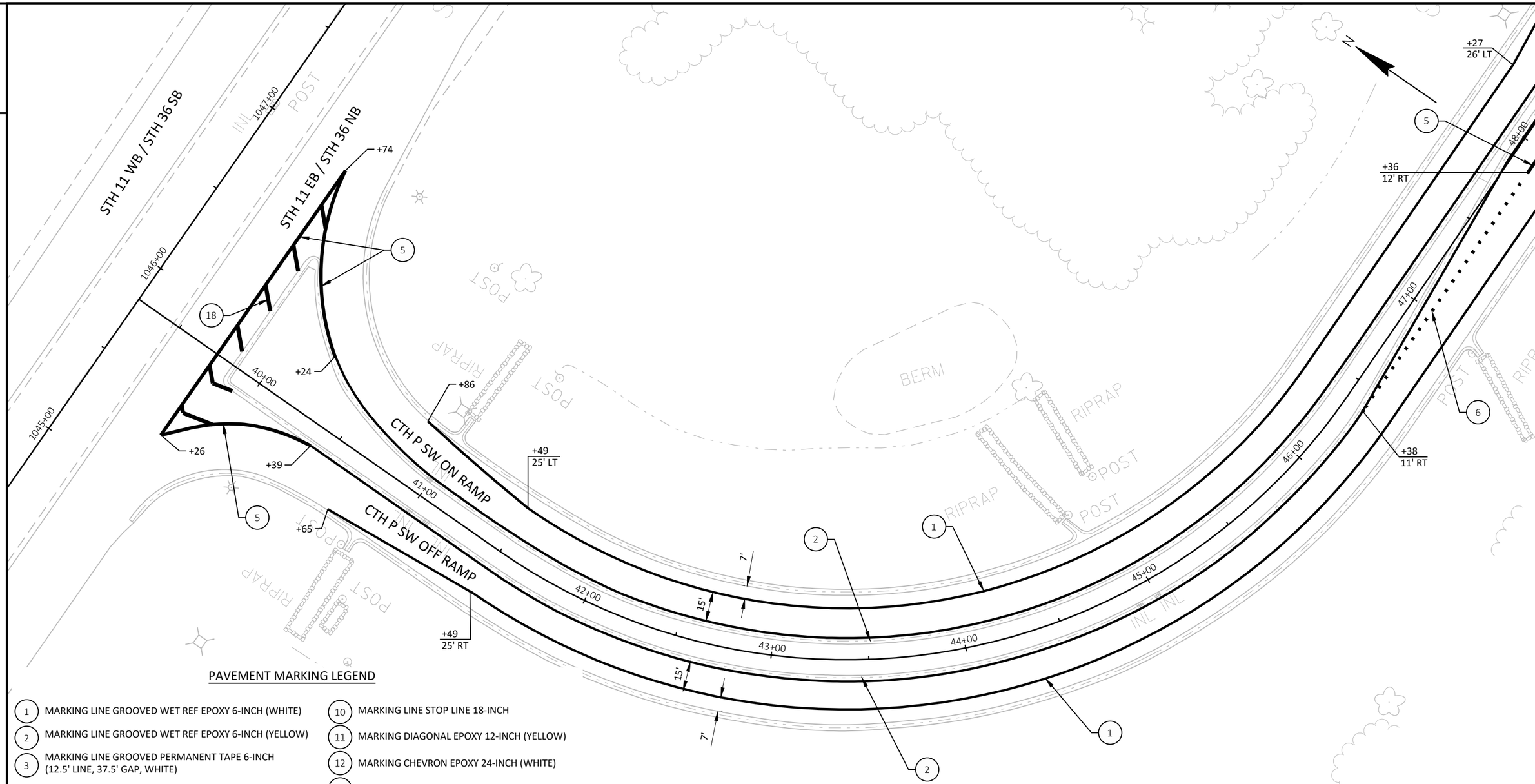
LEGEND

—G———— EXISTING UTILITIES SHOWN IN BOLD WERE NOT MARKED AND ARE APPROXIMATE LOCATIONS BASED ON SYSTEM MAPS

—G———— EXISTING UTILITIES SHOWN IN COLOR SCALE WERE SURVEYED BASE ON FIELD MARKINGS

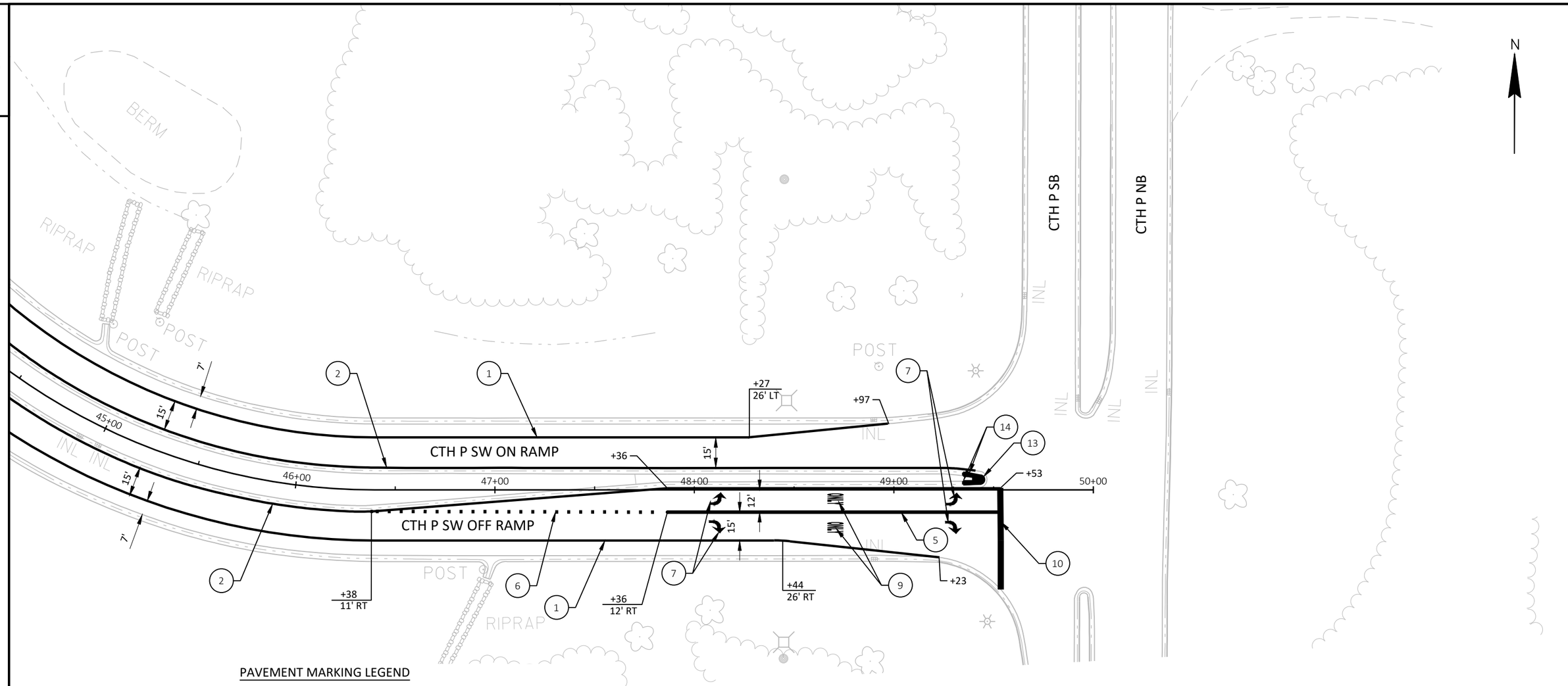
PROJECT NO: 3180-00-78	HWY: VAR HWY	COUNTY: RACINE	UTILITY PLAN	SHEET 46	E

FILE NAME : N:\PDS\C3D\31800008\SHEETS\023001-UP.DWG
LAYOUT NAME - 05-up
PLOT DATE : 10/29/2024 7:41 AM
PLOT BY : HAYNES, RONNIE
PLOT NAME :
PLOT SCALE : 1 IN:175 FT
WISDOT/CADDS SHEET 42



PAVEMENT MARKING LEGEND

1. MARKING LINE GROOVED WET REF EPOXY 6-INCH (WHITE)
2. MARKING LINE GROOVED WET REF EPOXY 6-INCH (YELLOW)
3. MARKING LINE GROOVED PERMANENT TAPE 6-INCH (12.5' LINE, 37.5' GAP, WHITE)
4. MARKING LINE GROOVED WET REF EPOXY 6-INCH (2' LINE, 6' GAP, YELLOW)
5. MARKING LINE GROOVED PERMANENT TAPE 10-INCH (WHITE)
6. MARKING LINE GROOVED PERMANENT TAPE 10-INCH (3' LINE, 9' GAP, WHITE)
7. MARKING ARROW EPOXY (TYPE 2)
8. MARKING ARROW EPOXY (TYPE 3)
9. MARKING LINE WORD EPOXY
10. MARKING LINE STOP LINE 18-INCH
11. MARKING DIAGONAL EPOXY 12-INCH (YELLOW)
12. MARKING CHEVRON EPOXY 24-INCH (WHITE)
13. MARKING ISLAND NOSE EPOXY
14. MARKING CURB EPOXY
15. MARKING LINE EPOXY 6-INCH (WHITE)
16. MARKING LINE EPOXY 6-INCH (YELLOW)
17. MARKING LINE GROOVED WET REF EPOXY 6-INCH (12.5' LINE, 37.5' GAP, WHITE)
18. MARKING DIAGONAL EPOXY 12-INCH (WHITE)



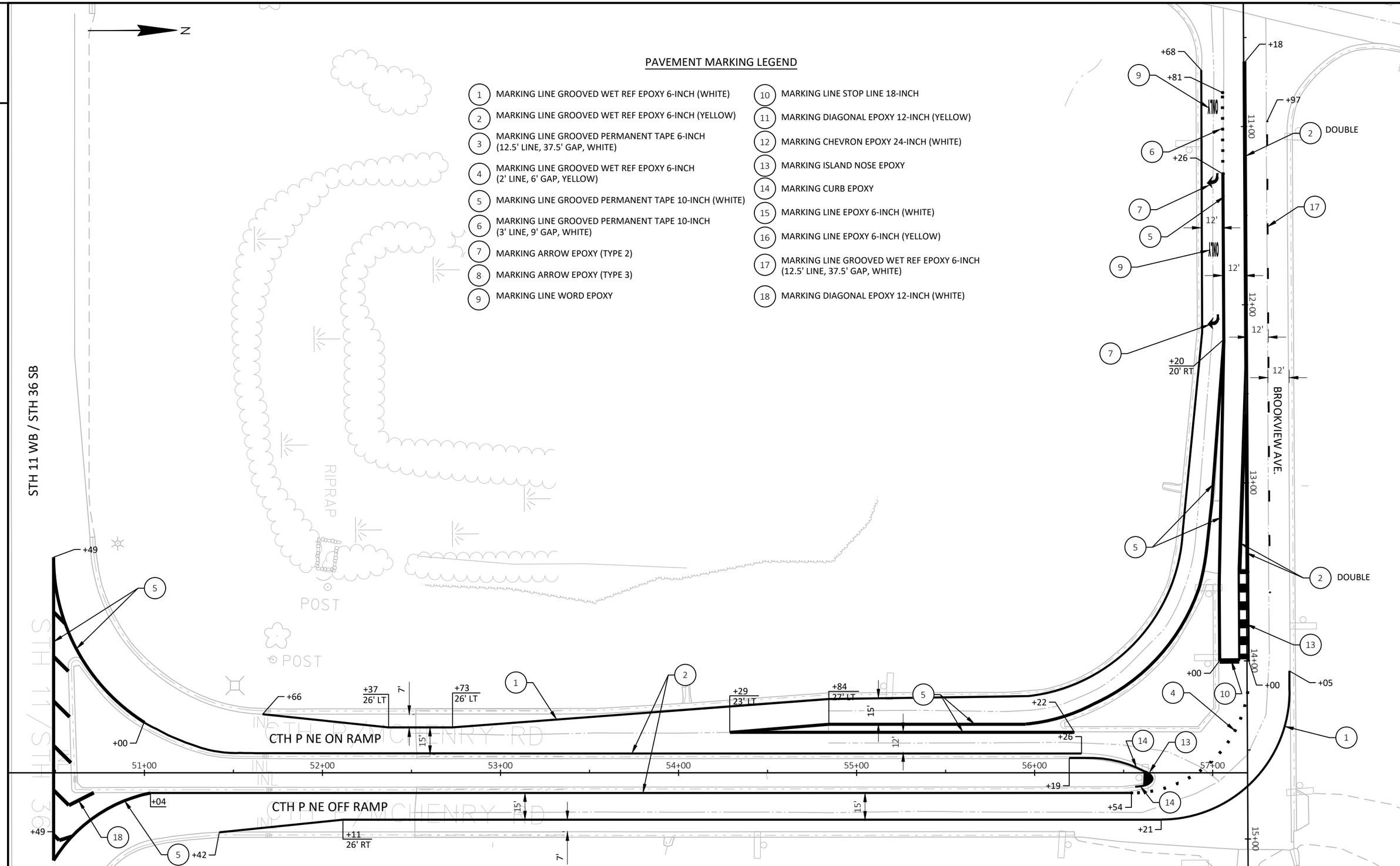
PAVEMENT MARKING LEGEND

1. MARKING LINE GROOVED WET REF EPOXY 6-INCH (WHITE)
2. MARKING LINE GROOVED WET REF EPOXY 6-INCH (YELLOW)
3. MARKING LINE GROOVED PERMANENT TAPE 6-INCH (12.5' LINE, 37.5' GAP, WHITE)
4. MARKING LINE GROOVED WET REF EPOXY 6-INCH (2' LINE, 6' GAP, YELLOW)
5. MARKING LINE GROOVED PERMANENT TAPE 10-INCH (WHITE)
6. MARKING LINE GROOVED PERMANENT TAPE 10-INCH (3' LINE, 9' GAP, WHITE)
7. MARKING ARROW EPOXY (TYPE 2)
8. MARKING ARROW EPOXY (TYPE 3)
9. MARKING LINE WORD EPOXY
10. MARKING LINE STOP LINE 18-INCH
11. MARKING DIAGONAL EPOXY 12-INCH (YELLOW)
12. MARKING CHEVRON EPOXY 24-INCH (WHITE)
13. MARKING ISLAND NOSE EPOXY
14. MARKING CURB EPOXY
15. MARKING LINE EPOXY 6-INCH (WHITE)
16. MARKING LINE EPOXY 6-INCH (YELLOW)
17. MARKING LINE GROOVED WET REF EPOXY 6-INCH (12.5' LINE, 37.5' GAP, WHITE)

2

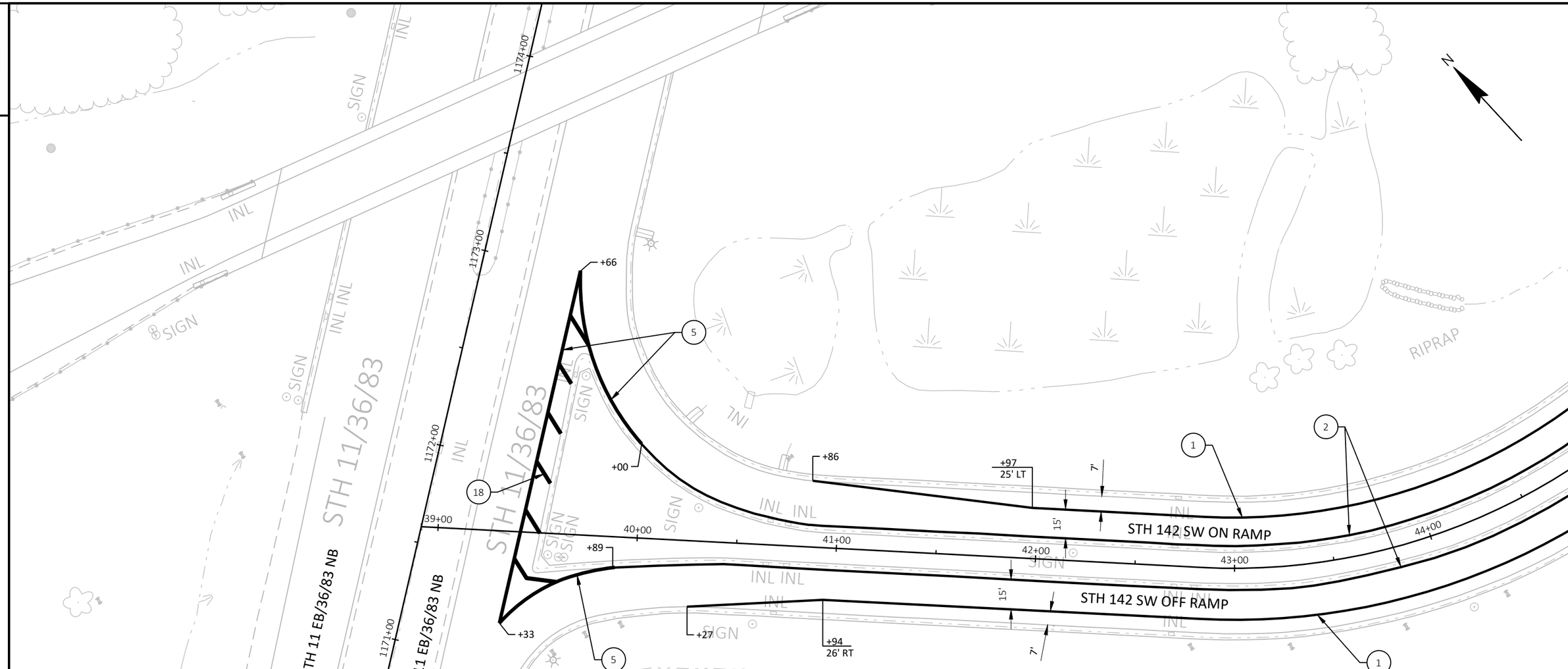
PAVEMENT MARKING LEGEND

1. MARKING LINE GROOVED WET REF EPOXY 6-INCH (WHITE)
2. MARKING LINE GROOVED WET REF EPOXY 6-INCH (YELLOW)
3. MARKING LINE GROOVED PERMANENT TAPE 6-INCH (12.5' LINE, 37.5' GAP, WHITE)
4. MARKING LINE GROOVED WET REF EPOXY 6-INCH (2' LINE, 6' GAP, YELLOW)
5. MARKING LINE GROOVED PERMANENT TAPE 10-INCH (WHITE)
6. MARKING LINE GROOVED PERMANENT TAPE 10-INCH (3' LINE, 9' GAP, WHITE)
7. MARKING ARROW EPOXY (TYPE 2)
8. MARKING ARROW EPOXY (TYPE 3)
9. MARKING LINE WORD EPOXY
10. MARKING LINE STOP LINE 18-INCH
11. MARKING DIAGONAL EPOXY 12-INCH (YELLOW)
12. MARKING CHEVRON EPOXY 24-INCH (WHITE)
13. MARKING ISLAND NOSE EPOXY
14. MARKING CURB EPOXY
15. MARKING LINE EPOXY 6-INCH (WHITE)
16. MARKING LINE EPOXY 6-INCH (YELLOW)
17. MARKING LINE GROOVED WET REF EPOXY 6-INCH (12.5' LINE, 37.5' GAP, WHITE)
18. MARKING DIAGONAL EPOXY 12-INCH (WHITE)



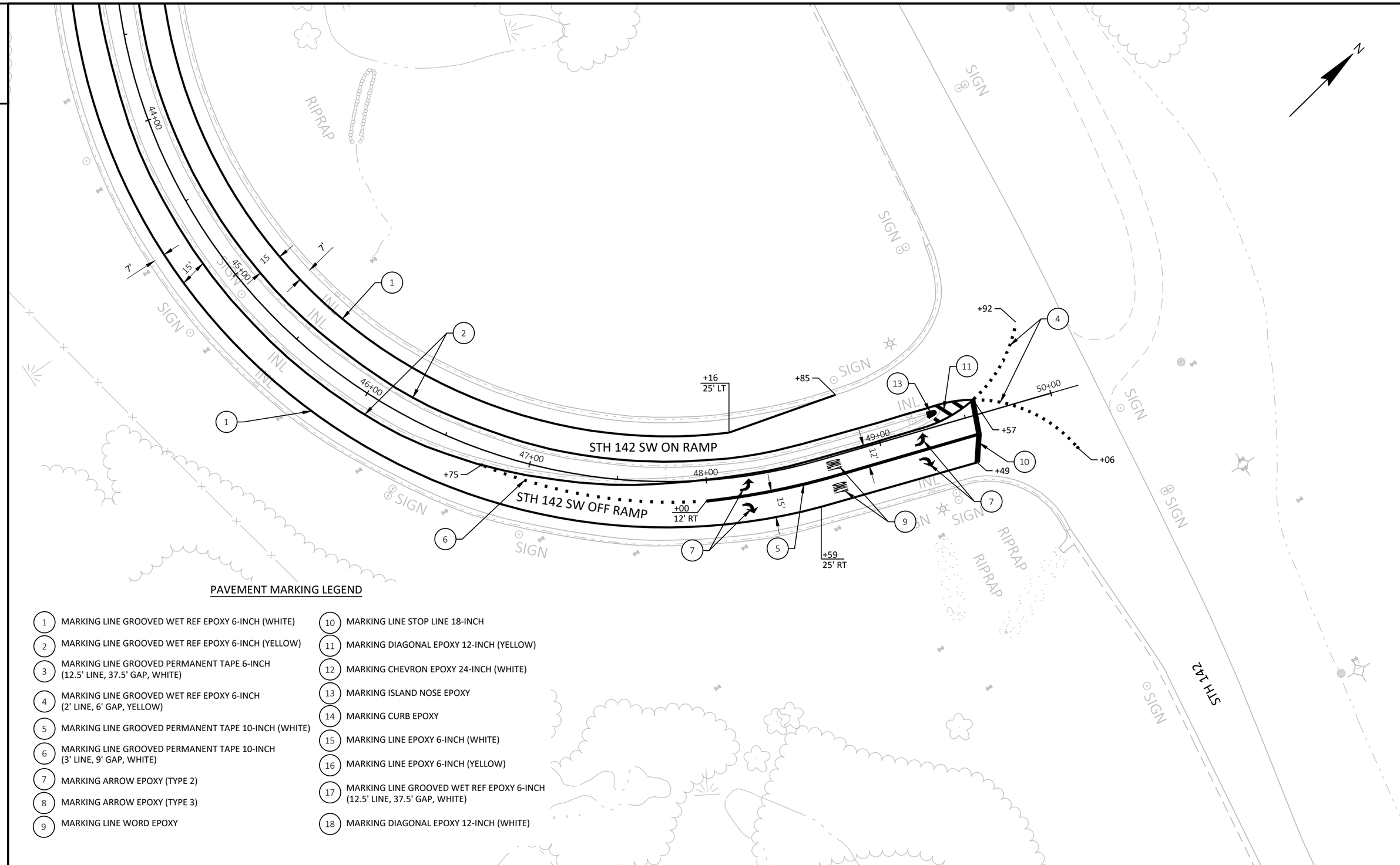
PROJECT NO: 3180-00-78	HWY: VAR HWY	COUNTY: RACINE	PAVEMENT MARKING	SHEET 49	E

FILE NAME : N:\PDS\C3D\31800008\SHEETS\024501-PM.DWG
LAYOUT NAME - 024503-pm
PLOT DATE : 10/29/2024 6:20 AM PLOT BY : HAYNES, RONNIE PLOT NAME : PLOT SCALE : 1 IN:50 FT



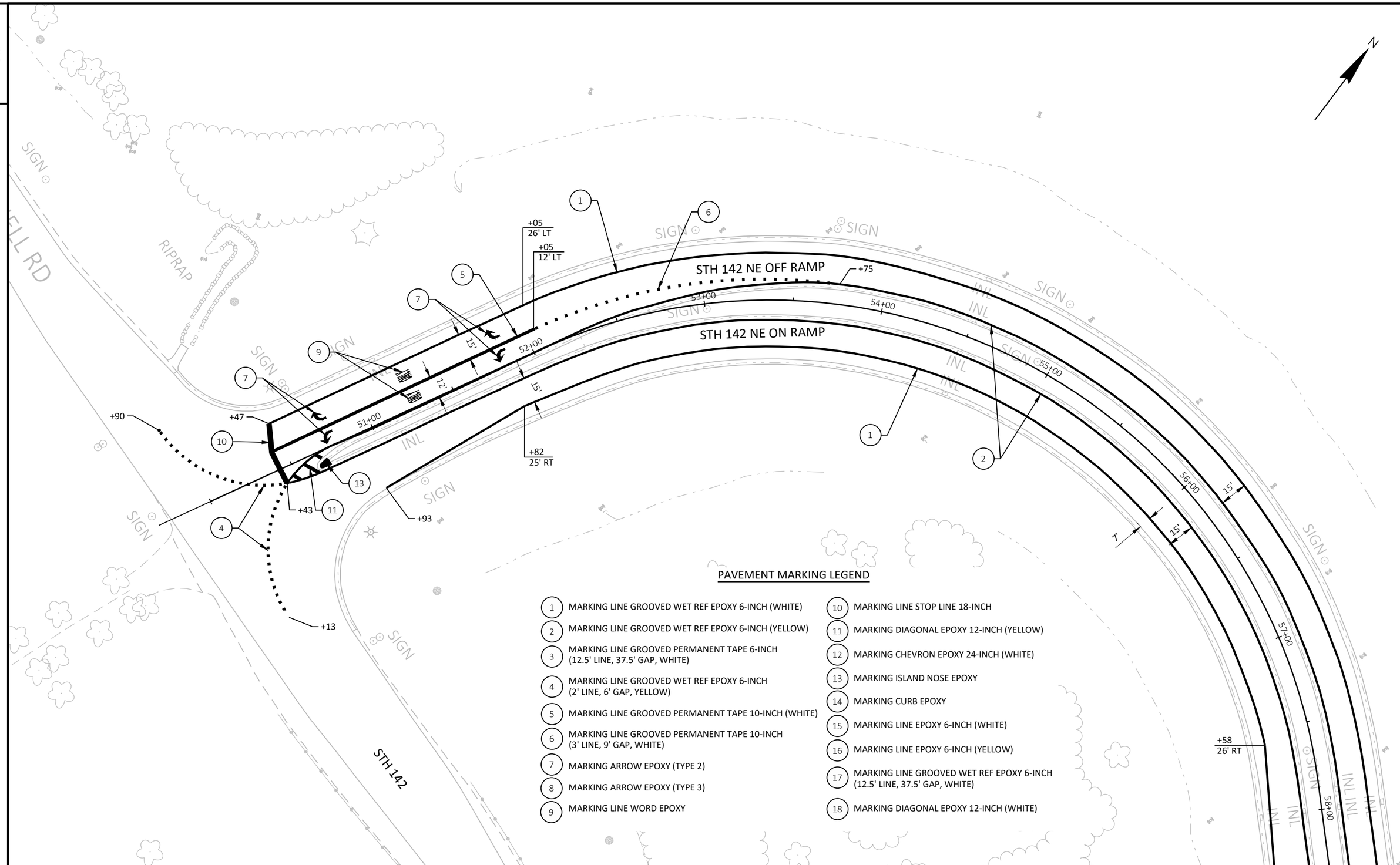
PAVEMENT MARKING LEGEND

1. MARKING LINE GROOVED WET REF EPOXY 6-INCH (WHITE)
2. MARKING LINE GROOVED WET REF EPOXY 6-INCH (YELLOW)
3. MARKING LINE GROOVED PERMANENT TAPE 6-INCH (12.5' LINE, 37.5' GAP, WHITE)
4. MARKING LINE GROOVED WET REF EPOXY 6-INCH (2' LINE, 6' GAP, YELLOW)
5. MARKING LINE GROOVED PERMANENT TAPE 10-INCH (WHITE)
6. MARKING LINE GROOVED PERMANENT TAPE 10-INCH (3' LINE, 9' GAP, WHITE)
7. MARKING ARROW EPOXY (TYPE 2)
8. MARKING ARROW EPOXY (TYPE 3)
9. MARKING LINE WORD EPOXY
10. MARKING LINE STOP LINE 18-INCH
11. MARKING DIAGONAL EPOXY 12-INCH (YELLOW)
12. MARKING CHEVRON EPOXY 24-INCH (WHITE)
13. MARKING ISLAND NOSE EPOXY
14. MARKING CURB EPOXY
15. MARKING LINE EPOXY 6-INCH (WHITE)
16. MARKING LINE EPOXY 6-INCH (YELLOW)
17. MARKING LINE GROOVED WET REF EPOXY 6-INCH (12.5' LINE, 37.5' GAP, WHITE)
18. MARKING DIAGONAL EPOXY 12-INCH (WHITE)



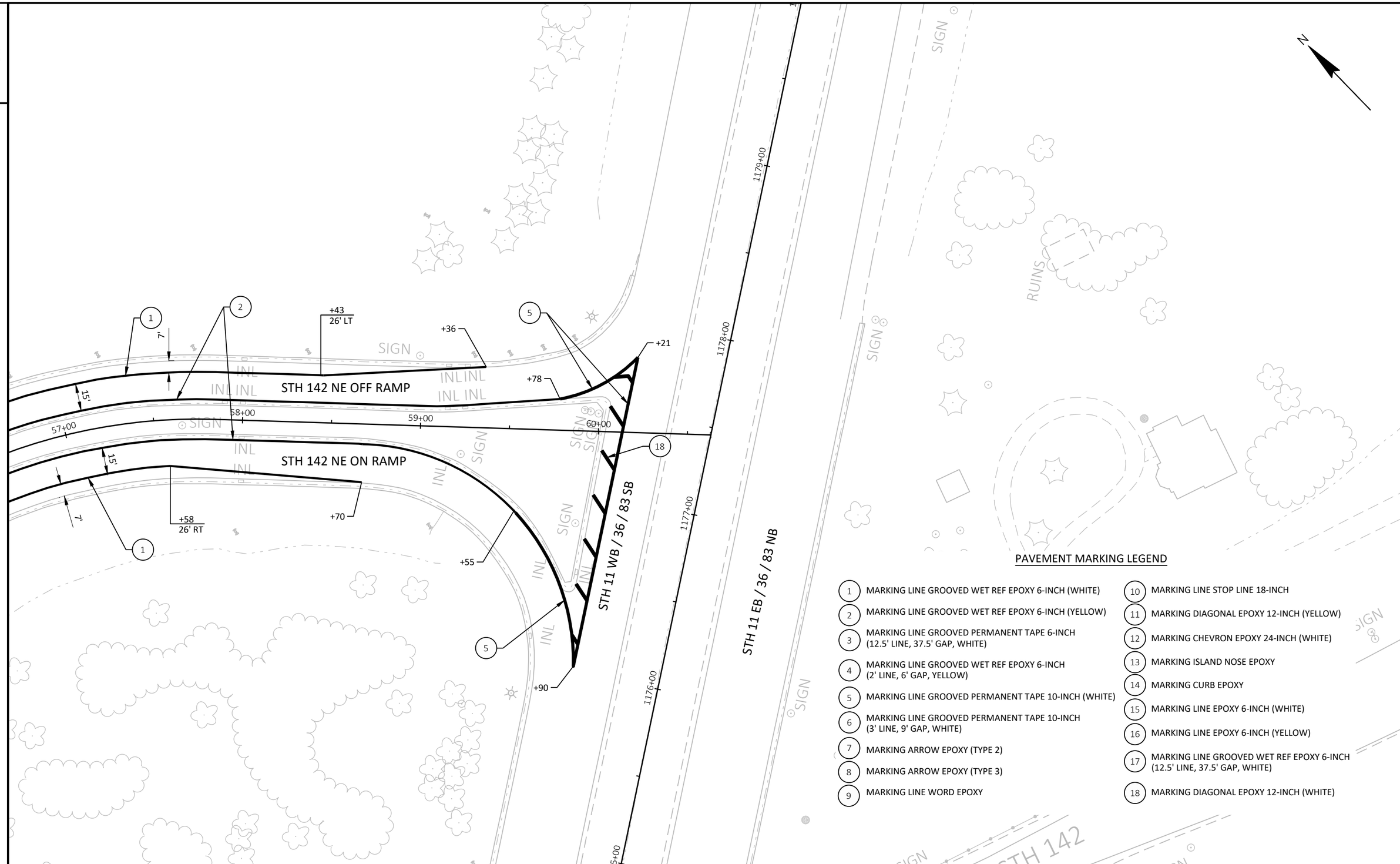
PAVEMENT MARKING LEGEND

1. MARKING LINE GROOVED WET REF EPOXY 6-INCH (WHITE)
2. MARKING LINE GROOVED WET REF EPOXY 6-INCH (YELLOW)
3. MARKING LINE GROOVED PERMANENT TAPE 6-INCH (12.5' LINE, 37.5' GAP, WHITE)
4. MARKING LINE GROOVED WET REF EPOXY 6-INCH (2' LINE, 6' GAP, YELLOW)
5. MARKING LINE GROOVED PERMANENT TAPE 10-INCH (WHITE)
6. MARKING LINE GROOVED PERMANENT TAPE 10-INCH (3' LINE, 9' GAP, WHITE)
7. MARKING ARROW EPOXY (TYPE 2)
8. MARKING ARROW EPOXY (TYPE 3)
9. MARKING LINE WORD EPOXY
10. MARKING LINE STOP LINE 18-INCH
11. MARKING DIAGONAL EPOXY 12-INCH (YELLOW)
12. MARKING CHEVRON EPOXY 24-INCH (WHITE)
13. MARKING ISLAND NOSE EPOXY
14. MARKING CURB EPOXY
15. MARKING LINE EPOXY 6-INCH (WHITE)
16. MARKING LINE EPOXY 6-INCH (YELLOW)
17. MARKING LINE GROOVED WET REF EPOXY 6-INCH (12.5' LINE, 37.5' GAP, WHITE)
18. MARKING DIAGONAL EPOXY 12-INCH (WHITE)



PAVEMENT MARKING LEGEND

1. MARKING LINE GROOVED WET REF EPOXY 6-INCH (WHITE)
2. MARKING LINE GROOVED WET REF EPOXY 6-INCH (YELLOW)
3. MARKING LINE GROOVED PERMANENT TAPE 6-INCH (12.5' LINE, 37.5' GAP, WHITE)
4. MARKING LINE GROOVED WET REF EPOXY 6-INCH (2' LINE, 6' GAP, YELLOW)
5. MARKING LINE GROOVED PERMANENT TAPE 10-INCH (WHITE)
6. MARKING LINE GROOVED PERMANENT TAPE 10-INCH (3' LINE, 9' GAP, WHITE)
7. MARKING ARROW EPOXY (TYPE 2)
8. MARKING ARROW EPOXY (TYPE 3)
9. MARKING LINE WORD EPOXY
10. MARKING LINE STOP LINE 18-INCH
11. MARKING DIAGONAL EPOXY 12-INCH (YELLOW)
12. MARKING CHEVRON EPOXY 24-INCH (WHITE)
13. MARKING ISLAND NOSE EPOXY
14. MARKING CURB EPOXY
15. MARKING LINE EPOXY 6-INCH (WHITE)
16. MARKING LINE EPOXY 6-INCH (YELLOW)
17. MARKING LINE GROOVED WET REF EPOXY 6-INCH (12.5' LINE, 37.5' GAP, WHITE)
18. MARKING DIAGONAL EPOXY 12-INCH (WHITE)



PAVEMENT MARKING LEGEND

1. MARKING LINE GROOVED WET REF EPOXY 6-INCH (WHITE)
2. MARKING LINE GROOVED WET REF EPOXY 6-INCH (YELLOW)
3. MARKING LINE GROOVED PERMANENT TAPE 6-INCH (12.5' LINE, 37.5' GAP, WHITE)
4. MARKING LINE GROOVED WET REF EPOXY 6-INCH (2' LINE, 6' GAP, YELLOW)
5. MARKING LINE GROOVED PERMANENT TAPE 10-INCH (WHITE)
6. MARKING LINE GROOVED PERMANENT TAPE 10-INCH (3' LINE, 9' GAP, WHITE)
7. MARKING ARROW EPOXY (TYPE 2)
8. MARKING ARROW EPOXY (TYPE 3)
9. MARKING LINE WORD EPOXY
10. MARKING LINE STOP LINE 18-INCH
11. MARKING DIAGONAL EPOXY 12-INCH (YELLOW)
12. MARKING CHEVRON EPOXY 24-INCH (WHITE)
13. MARKING ISLAND NOSE EPOXY
14. MARKING CURB EPOXY
15. MARKING LINE EPOXY 6-INCH (WHITE)
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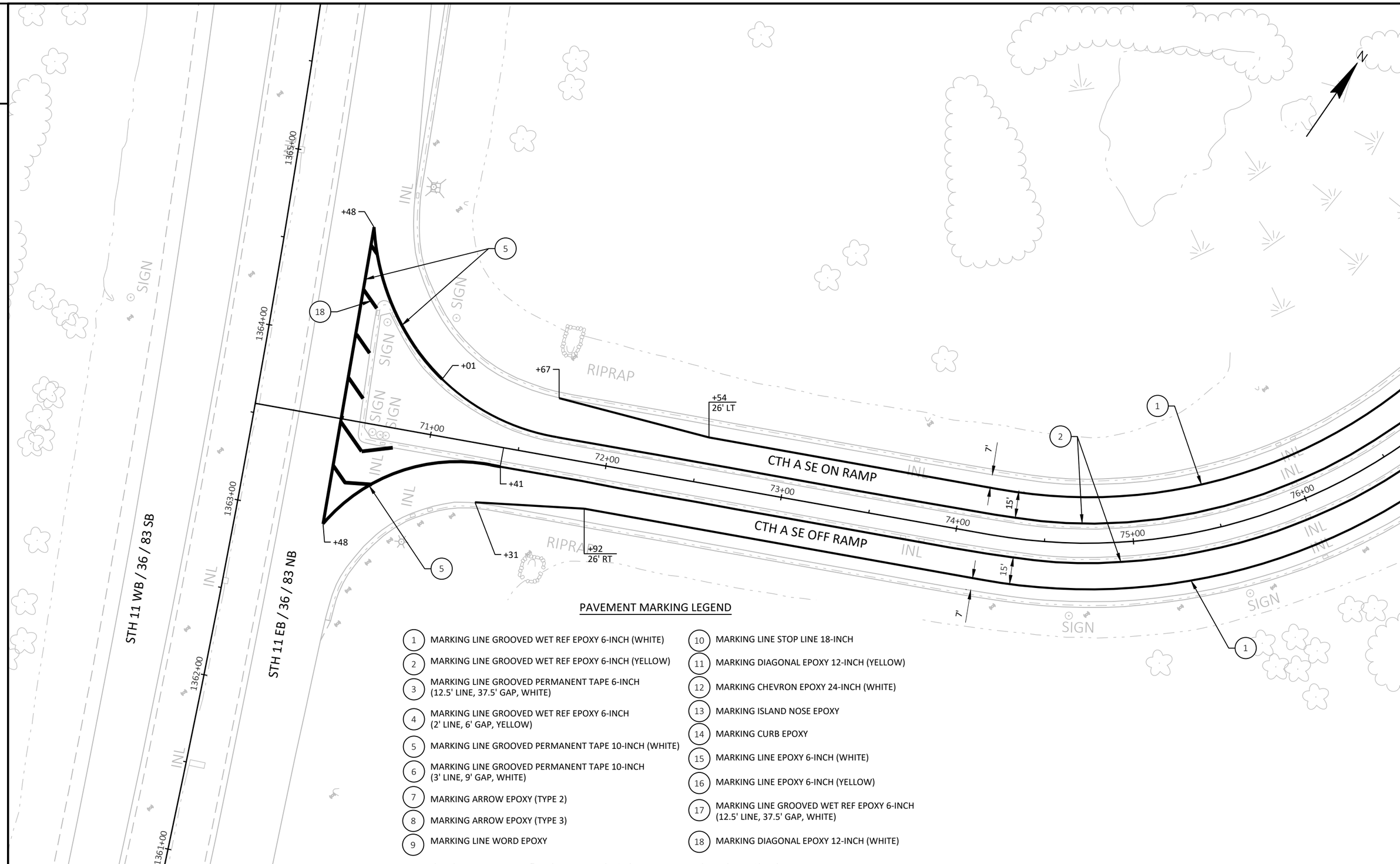
18. MARKING DIAGONAL EPOXY 12-INCH (WHITE)



PAVEMENT MARKING LEGEND

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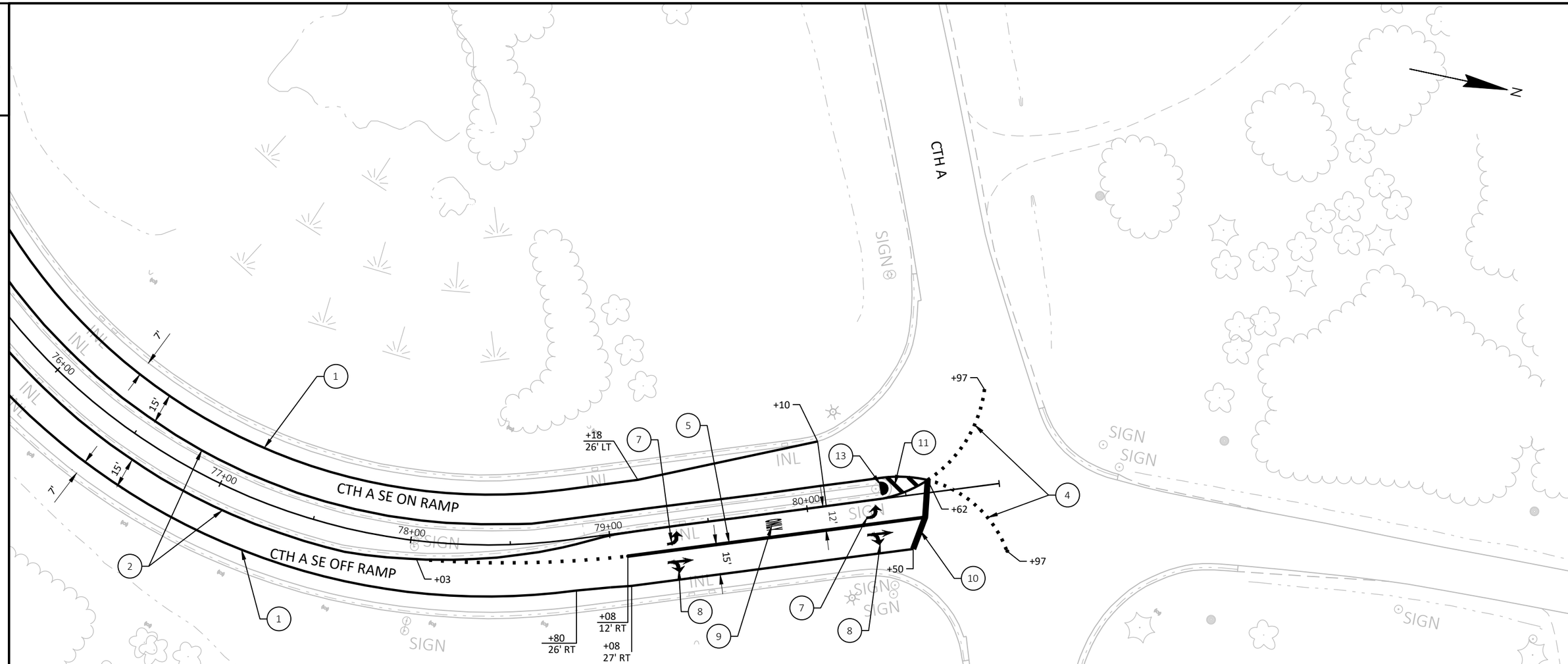

PAVEMENT MARKING LEGEND

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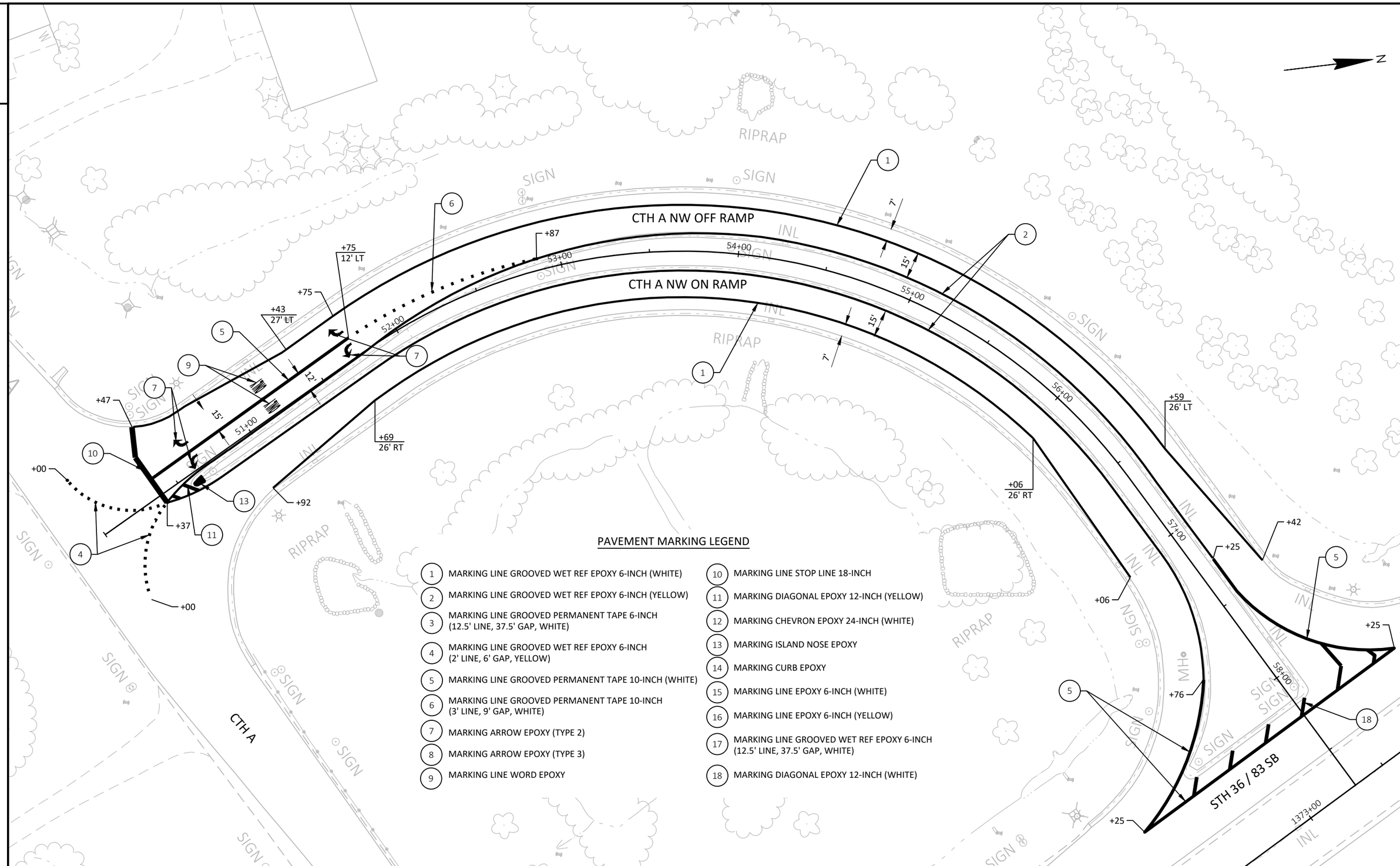

PAVEMENT MARKING LEGEND

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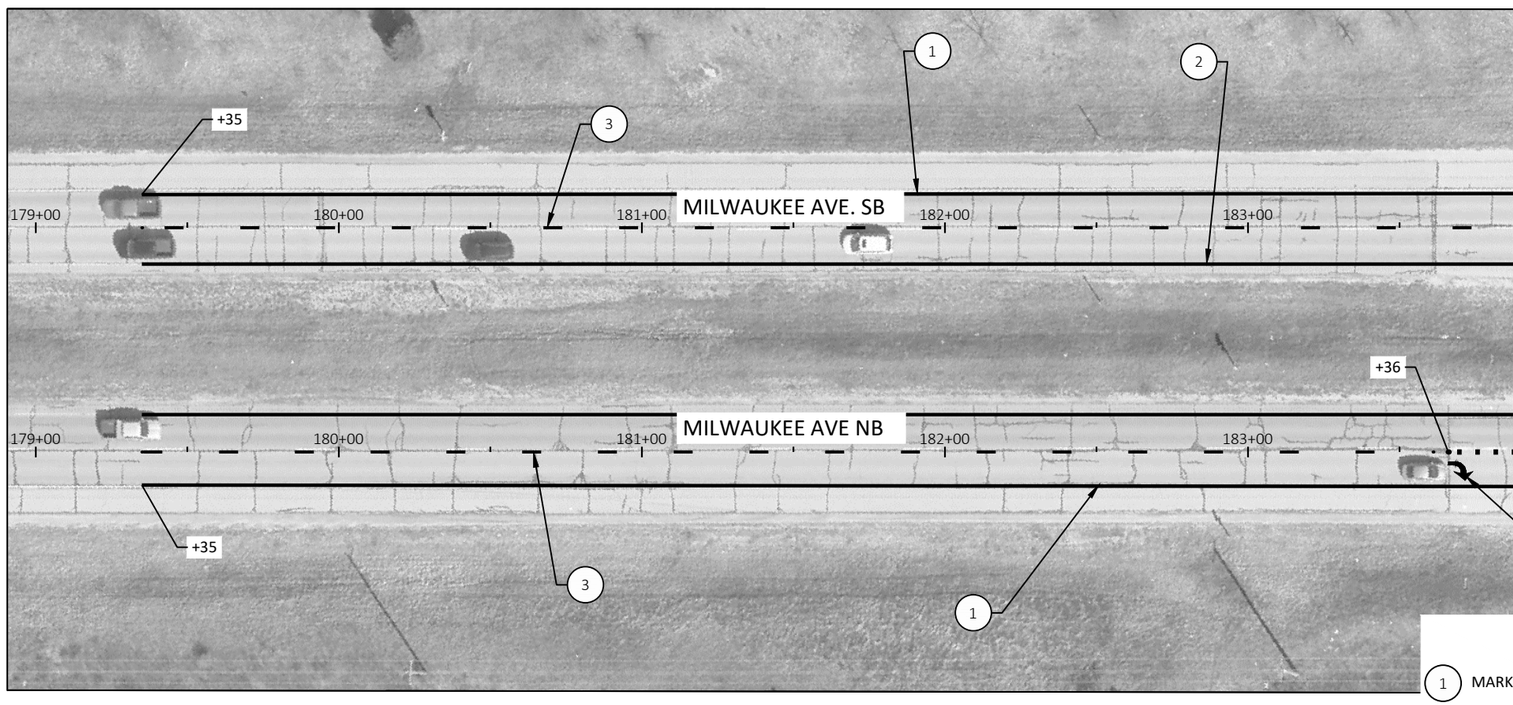
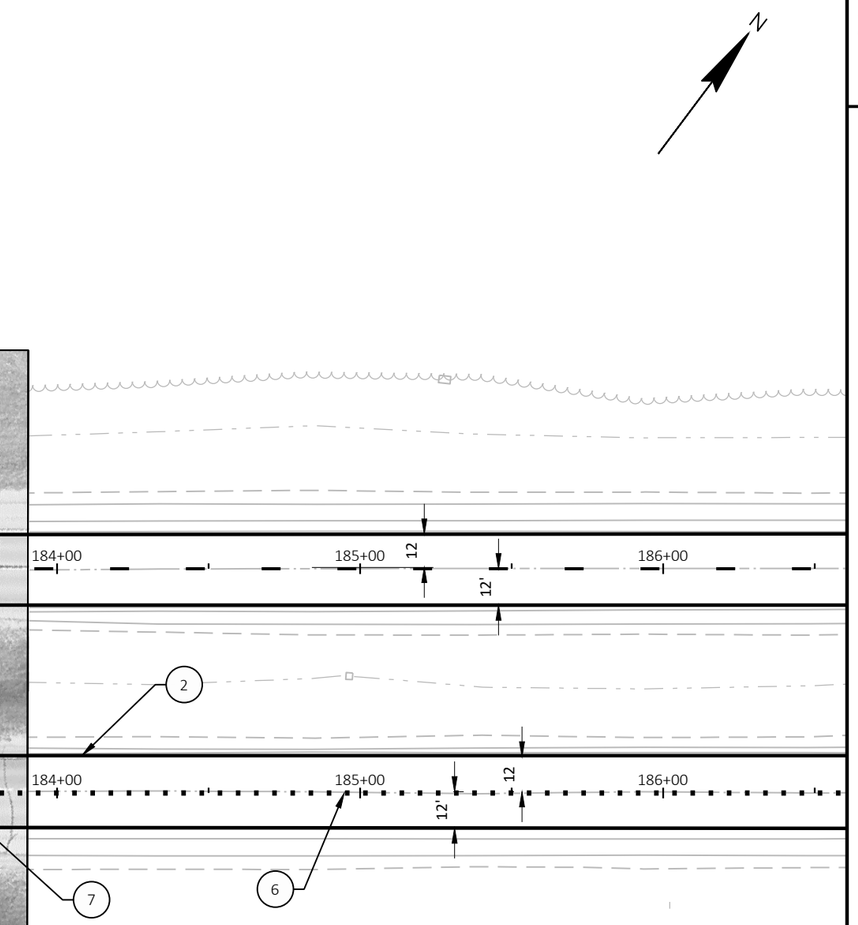
18. MARKING DIAGONAL EPOXY 12-INCH (WHITE)

PROJECT NO: 3180-00-78	HWY: VAR HWY	COUNTY: RACINE	PAVEMENT MARKING	SHEET 56	E





PAVEMENT MARKING LEGEND

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14. MARKING CURB EPOXY
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17. MARKING LINE GROOVED WET REF EPOXY 6-INCH (12.5' LINE, 37.5' GAP, WHITE)
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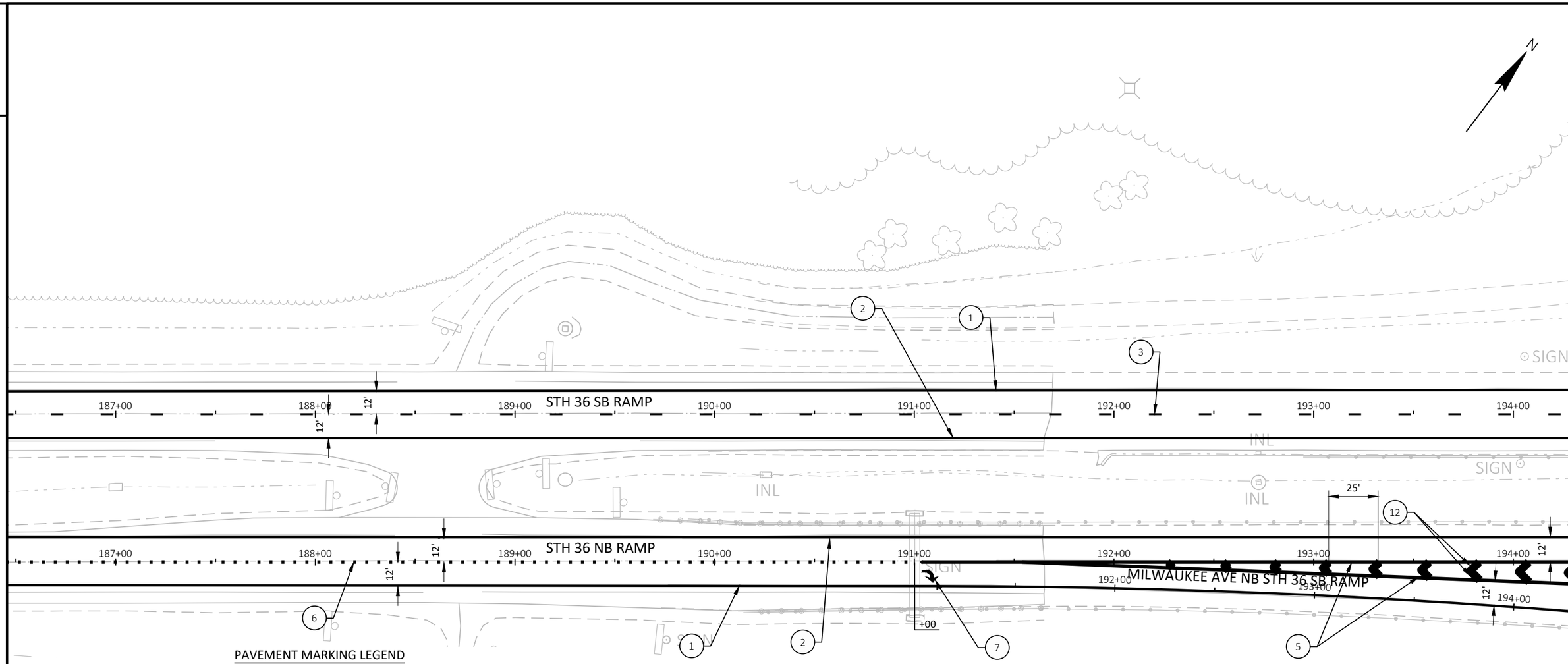

PAVEMENT MARKING LEGEND

1. MARKING LINE GROOVED WET REF EPOXY 6-INCH (WHITE)
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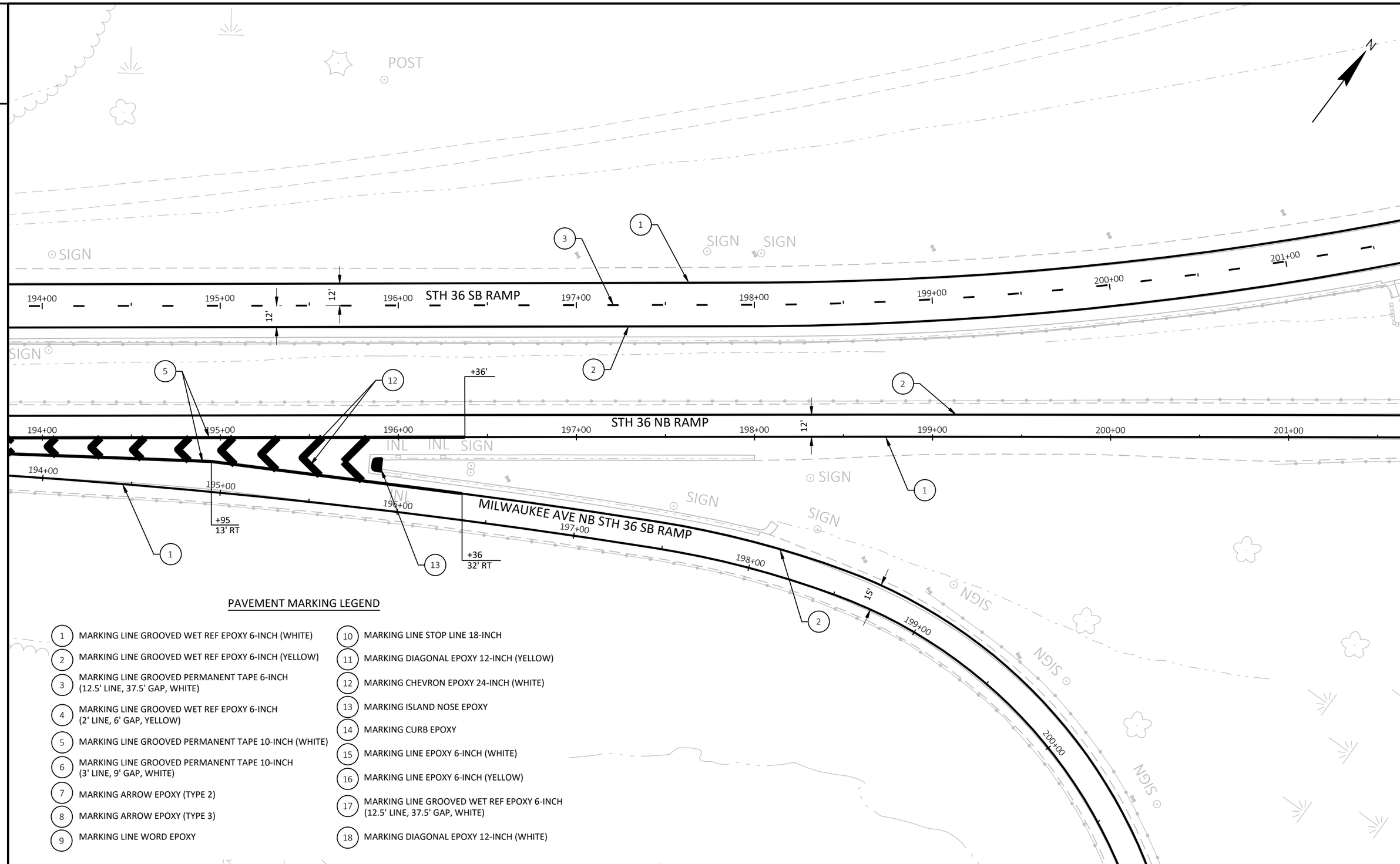
18. MARKING DIAGONAL EPOXY 12-INCH (WHITE)

PROJECT NO: 3180-00-78	HWY: VAR HWY	COUNTY: RACINE	PAVEMENT MARKING	SHEET 58	E



PAVEMENT MARKING LEGEND

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2. MARKING LINE GROOVED WET REF EPOXY 6-INCH (YELLOW)
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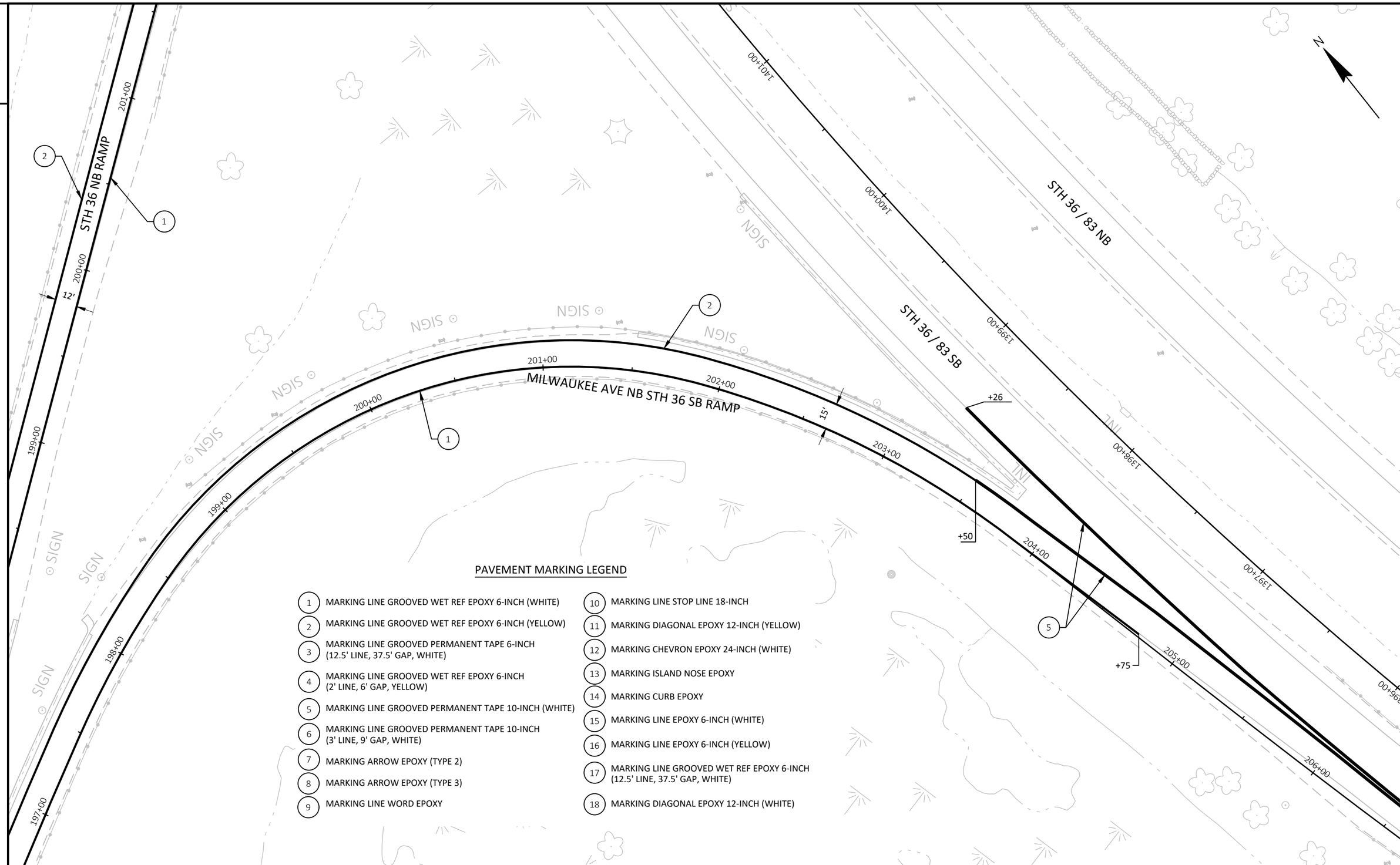
18. MARKING DIAGONAL EPOXY 12-INCH (WHITE)

PROJECT NO: 3180-00-78	HWY: VAR HWY	COUNTY: RACINE	PAVEMENT MARKING	SHEET 59	E



PAVEMENT MARKING LEGEND

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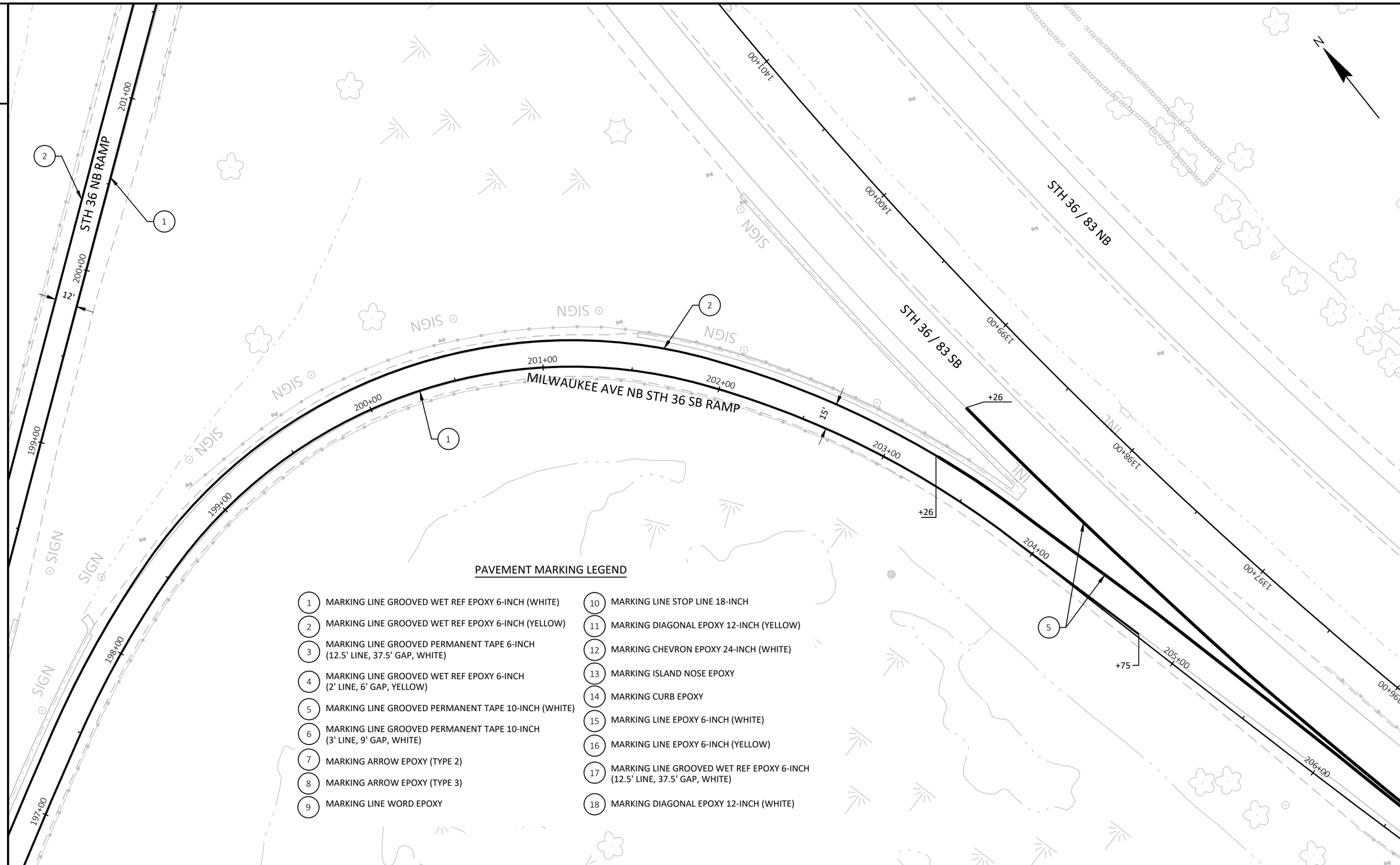

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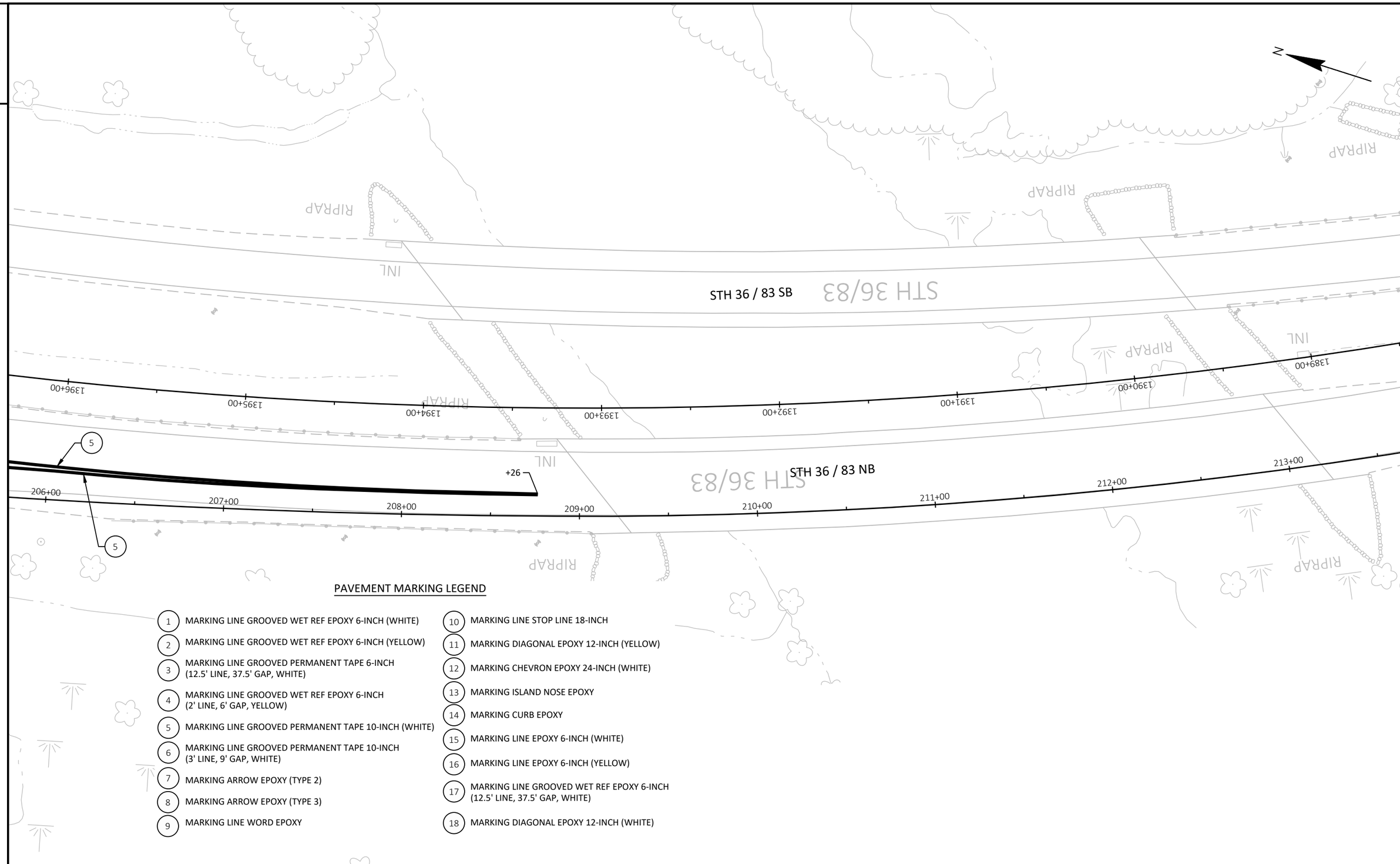

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17. MARKING LINE GROOVED WET REF EPOXY 6-INCH (12.5' LINE, 37.5' GAP, WHITE)
18. MARKING DIAGONAL EPOXY 12-INCH (WHITE)

PROJECT NO: 3180-00-78	HWY: VAR HWY	COUNTY: RACINE	PAVEMENT MARKING	SHEET 62	E

STH 36 SB RAMP
STH 36 / 83 SB
STH 36 / 83 NB
STH 36 NB RAMP
STH 36/83
202+00
203+00
204+00
205+00
206+00
207+00
208+00
209+00
1410+00
1409+00
1408+00
1407+00
1406+00
1405+00
1404+00
1403+00
12'
+36
+11
+90
+18
SIGN
RIPRAP
INL
W
N

PAVEMENT MARKING LEGEND

1. MARKING LINE GROOVED WET REF EPOXY 6-INCH (WHITE)
2. MARKING LINE GROOVED WET REF EPOXY 6-INCH (YELLOW)
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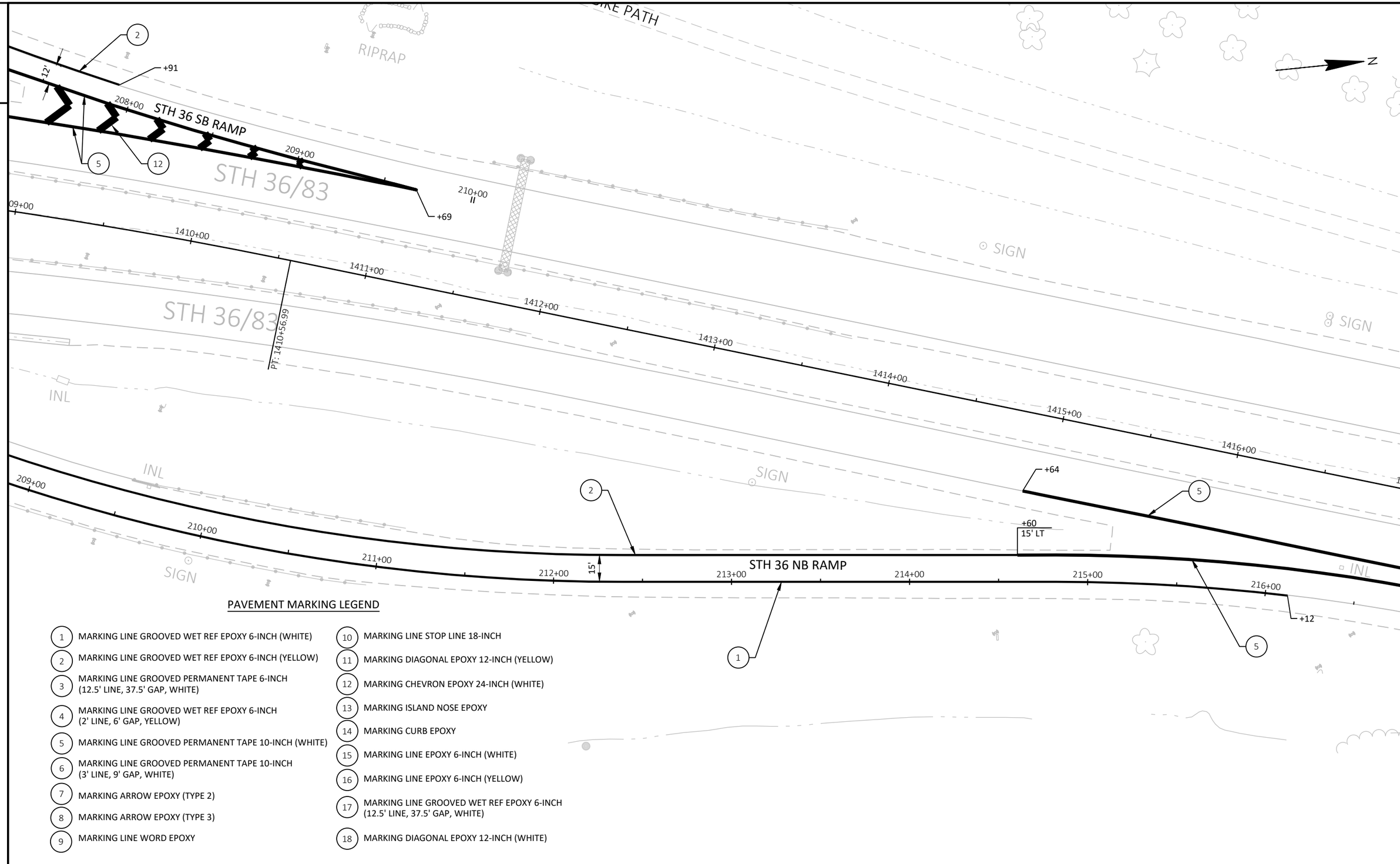

PAVEMENT MARKING LEGEND

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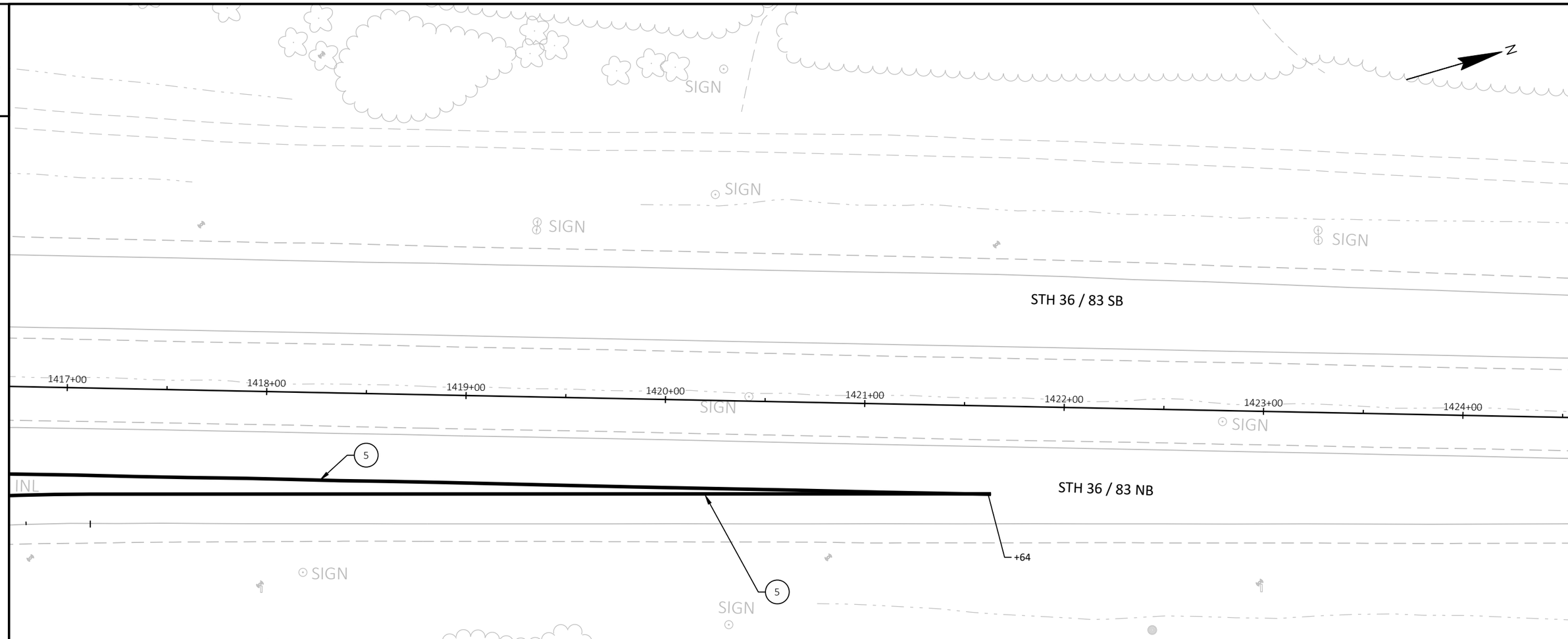
18. MARKING DIAGONAL EPOXY 12-INCH (WHITE)

PROJECT NO:	HWY:	COUNTY: RACINE	PAVEMENT MARKING	SHEET 64	E



PAVEMENT MARKING LEGEND

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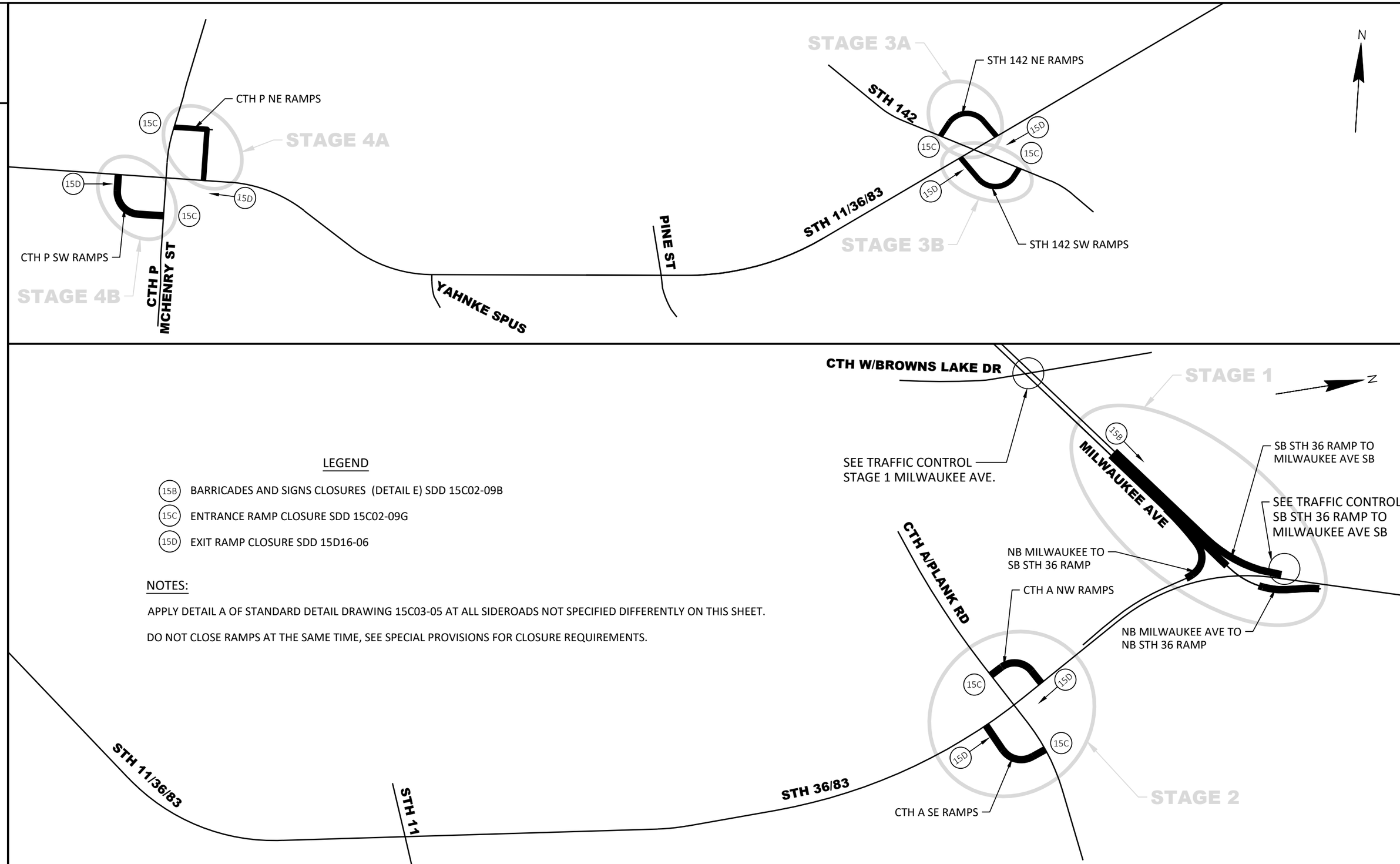


LEGEND

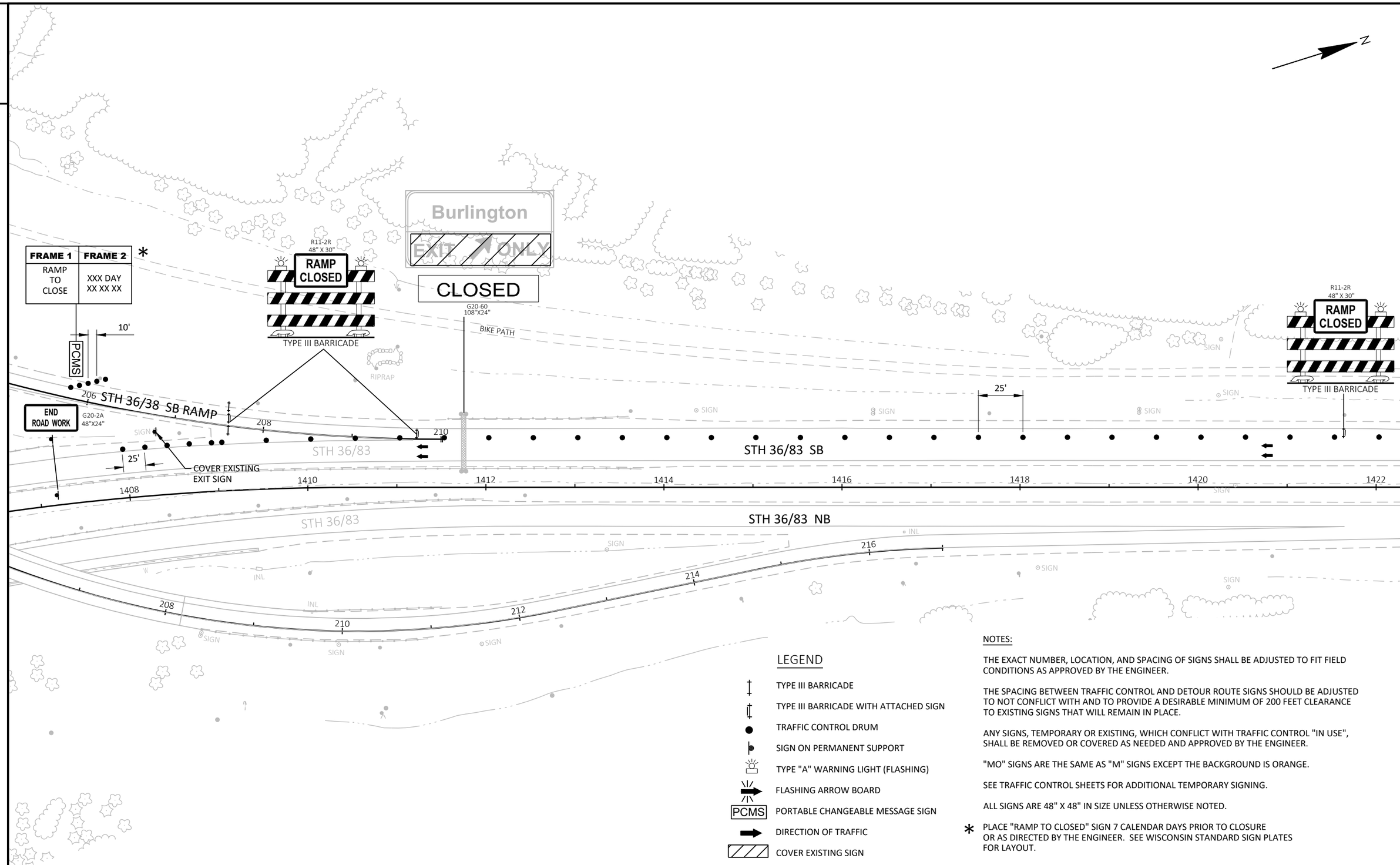
- (15B) BARRICADES AND SIGNS CLOSURES (DETAIL E) SDD 15C02-09B
- (15C) ENTRANCE RAMP CLOSURE SDD 15C02-09G
- (15D) EXIT RAMP CLOSURE SDD 15D16-06

NOTES:

APPLY DETAIL A OF STANDARD DETAIL DRAWING 15C03-05 AT ALL SIDEROADS NOT SPECIFIED DIFFERENTLY ON THIS SHEET.

DO NOT CLOSE RAMPS AT THE SAME TIME, SEE SPECIAL PROVISIONS FOR CLOSURE REQUIREMENTS.

PROJECT NO: 3180-00-78	HWY: VAR HWY	COUNTY: RACINE	TRAFFIC CONTROL - OVERVIEW	SHEET 66	E



NOTES:

THE EXACT NUMBER, LOCATION, AND SPACING OF SIGNS SHALL BE ADJUSTED TO FIT FIELD CONDITIONS AS APPROVED BY THE ENGINEER.

THE SPACING BETWEEN TRAFFIC CONTROL AND DETOUR ROUTE SIGNS SHOULD BE ADJUSTED TO NOT CONFLICT WITH AND TO PROVIDE A DESIRABLE MINIMUM OF 200 FEET CLEARANCE TO EXISTING SIGNS THAT WILL REMAIN IN PLACE.

ANY SIGNS, TEMPORARY OR EXISTING, WHICH CONFLICT WITH TRAFFIC CONTROL "IN USE", SHALL BE REMOVED OR COVERED AS NEEDED AND APPROVED BY THE ENGINEER.

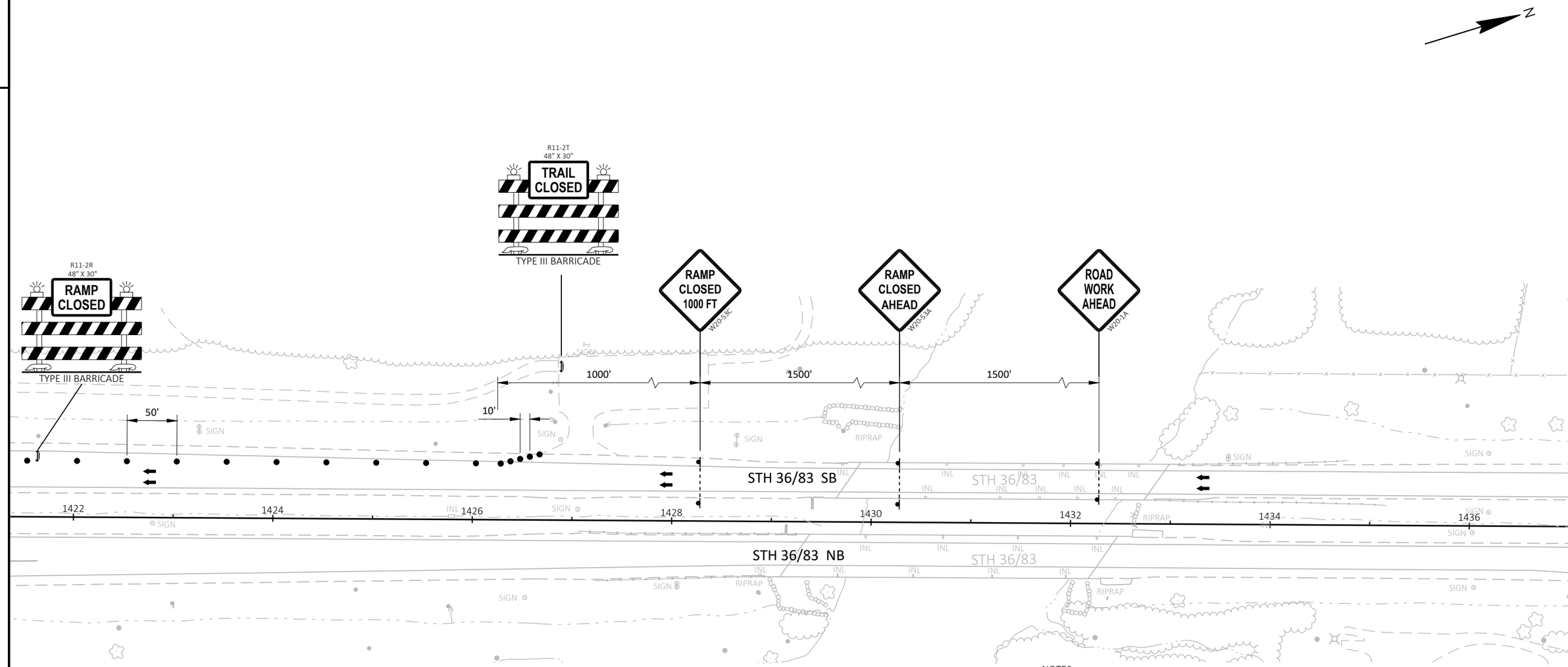
"MO" SIGNS ARE THE SAME AS "M" SIGNS EXCEPT THE BACKGROUND IS ORANGE.

SEE TRAFFIC CONTROL SHEETS FOR ADDITIONAL TEMPORARY SIGNING.

ALL SIGNS ARE 48" X 48" IN SIZE UNLESS OTHERWISE NOTED.

* PLACE "RAMP TO CLOSED" SIGN 7 CALENDAR DAYS PRIOR TO CLOSURE OR AS DIRECTED BY THE ENGINEER. SEE WISCONSIN STANDARD SIGN PLATES FOR LAYOUT.

PROJECT NO: 3180-00-78	HWY: VAR HWY	COUNTY: RACINE	TRAFFIC CONTROL - STAGE 1 SB STH 36 RAMP TO MILWAUKEE AVE SB	SHEET 67	E



LEGEND

- TYPE III BARRICADE
- TYPE III BARRICADE WITH ATTACHED SIGN
- TRAFFIC CONTROL DRUM
- SIGN ON PERMANENT SUPPORT
- TYPE "A" WARNING LIGHT (FLASHING)
- FLASHING ARROW BOARD
- PCMS — PORTABLE CHANGEABLE MESSAGE SIGN
- DIRECTION OF TRAFFIC
- COVER EXISTING SIGN

NOTES:

THE EXACT NUMBER, LOCATION, AND SPACING OF SIGNS SHALL BE ADJUSTED TO FIT FIELD CONDITIONS AS APPROVED BY THE ENGINEER.

THE SPACING BETWEEN TRAFFIC CONTROL AND DETOUR ROUTE SIGNS SHOULD BE ADJUSTED TO NOT CONFLICT WITH AND TO PROVIDE A DESIRABLE MINIMUM OF 200 FEET CLEARANCE TO EXISTING SIGNS THAT WILL REMAIN IN PLACE.

ANY SIGNS, TEMPORARY OR EXISTING, WHICH CONFLICT WITH TRAFFIC CONTROL "IN USE", SHALL BE REMOVED OR COVERED AS NEEDED AND APPROVED BY THE ENGINEER.

"MO" SIGNS ARE THE SAME AS "M" SIGNS EXCEPT THE BACKGROUND IS ORANGE.

SEE TRAFFIC CONTROL SHEETS FOR ADDITIONAL TEMPORARY SIGNING.

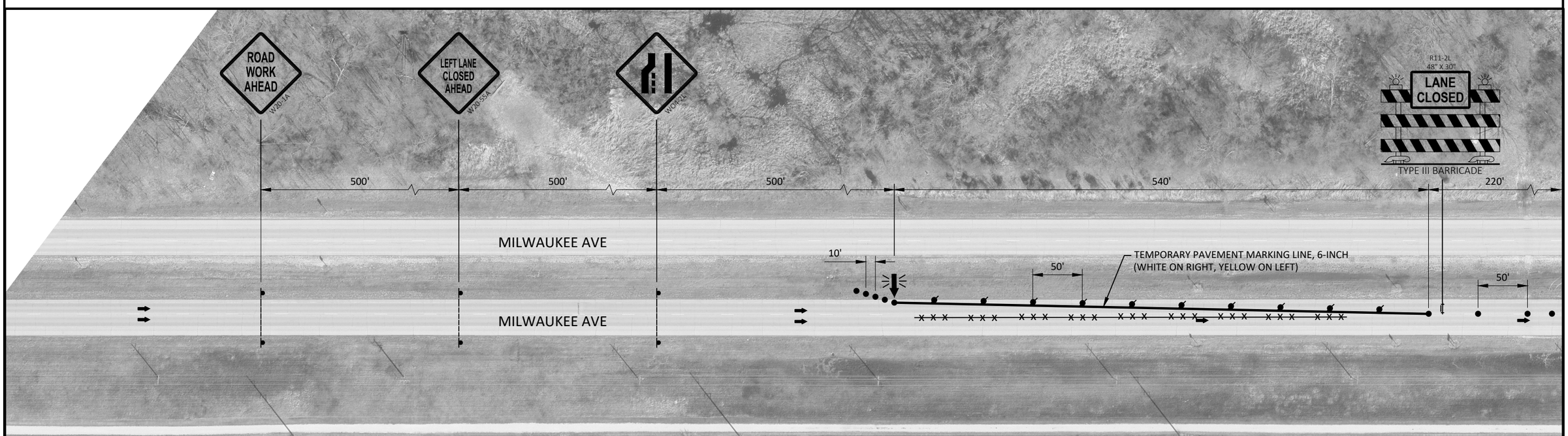
ALL SIGNS ARE 48" X 48" IN SIZE UNLESS OTHERWISE NOTED.

* PLACE "RAMP TO CLOSED" SIGN 7 CALENDAR DAYS PRIOR TO CLOSURE OR AS DIRECTED BY THE ENGINEER. SEE WISCONSIN STANDARD SIGN PLATES FOR LAYOUT.

PROJECT NO: 3180-00-78	HWY: VAR HWY	COUNTY: RACINE	TRAFFIC CONTROL - STAGE 1 SB STH 36 RAMP TO MILWAUKEE AVE SB	SHEET 68	E

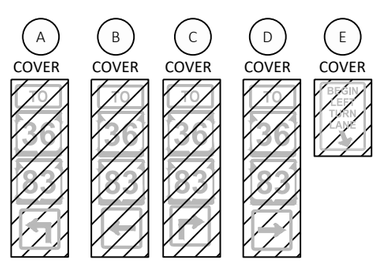
2

2



LEGEND

- TYPE III BARRICADE
- TYPE III BARRICADE WITH ATTACHED SIGN
- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT
- SIGN ON PERMANENT SUPPORT
- SIGN ON TEMPORARY SUPPORT
- FLASHING ARROW BOARD
- DIRECTION OF TRAFFIC
- REMOVE PAVEMENT MARKING (SEE NOTES)
- COVER EXISTING SIGN



NOTES:

THE EXACT NUMBER, LOCATION, AND SPACING OF SIGNS SHALL BE ADJUSTED TO FIT FIELD CONDITIONS AS APPROVED BY THE ENGINEER.

THE SPACING BETWEEN TRAFFIC CONTROL AND DETOUR ROUTE SIGNS SHOULD BE ADJUSTED TO NOT CONFLICT WITH AND TO PROVIDE A DESIRABLE MINIMUM OF 200 FEET CLEARANCE TO EXISTING SIGNS THAT WILL REMAIN IN PLACE.

ANY SIGNS, TEMPORARY OR EXISTING, WHICH CONFLICT WITH TRAFFIC CONTROL "IN USE", SHALL BE REMOVED OR COVERED AS NEEDED AND APPROVED BY THE ENGINEER.

"MO" SIGNS ARE THE SAME AS "M" SIGNS EXCEPT THE BACKGROUND IS ORANGE.

SEE TRAFFIC CONTROL SHEETS FOR ADDITIONAL TEMPORARY SIGNING.

REMOVE PAVEMENT MARKING AND PLACE TEMPORARY PAVEMENT MARKING LINE IF LANE CLOSURE IS TO BE IN PLACE FOR 4 OR MORE CONTINUOUS DAY AND NIGHT.

PLACE "RAMPS TO CLOSED" SIGN 7 CALENDAR DAYS PRIOR TO CLOSURE OR AS DIRECTED BY THE ENGINEER. SEE WISCONSIN STANDARD SIGN PLATES FOR LAYOUT.

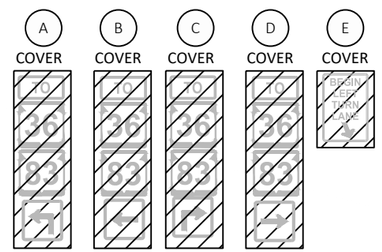
ALL SIGNS ARE 48" X 48" IN SIZE UNLESS OTHERWISE NOTED.

PROJECT NO: 3180-00-78	HWY: VAR HWY	COUNTY: RACINE	TRAFFIC CONTROL - STAGE 1 MILWAUKEE AVE.	SHEET 69	E

2

LEGEND

- TYPE III BARRICADE
- TYPE III BARRICADE WITH ATTACHED SIGN
- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT
- SIGN ON PERMANENT SUPPORT
- SIGN ON TEMPORARY SUPPORT
- FLASHING ARROW BOARD
- DIRECTION OF TRAFFIC
- REMOVE PAVEMENT MARKING (SEE NOTES)
- COVER EXISTING SIGN



NOTES:

THE EXACT NUMBER, LOCATION, AND SPACING OF SIGNS SHALL BE ADJUSTED TO FIT FIELD CONDITIONS AS APPROVED BY THE ENGINEER.

THE SPACING BETWEEN TRAFFIC CONTROL AND DETOUR ROUTE SIGNS SHOULD BE ADJUSTED TO NOT CONFLICT WITH AND TO PROVIDE A DESIRABLE MINIMUM OF 200 FEET CLEARANCE TO EXISTING SIGNS THAT WILL REMAIN IN PLACE.

ANY SIGNS, TEMPORARY OR EXISTING, WHICH CONFLICT WITH TRAFFIC CONTROL "IN USE", SHALL BE REMOVED OR COVERED AS NEEDED AND APPROVED BY THE ENGINEER.

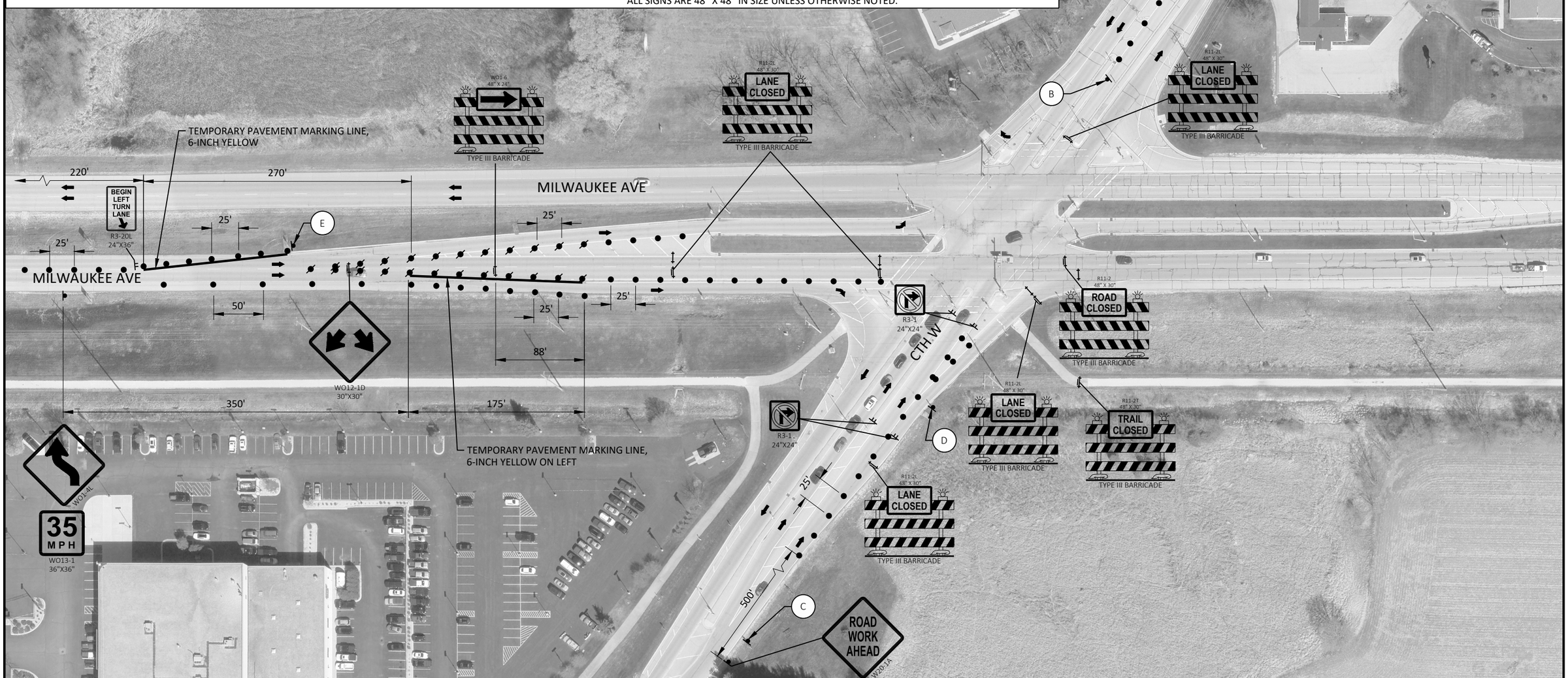
"MO" SIGNS ARE THE SAME AS "M" SIGNS EXCEPT THE BACKGROUND IS ORANGE.

SEE TRAFFIC CONTROL SHEETS FOR ADDITIONAL TEMPORARY SIGNING.

REMOVE PAVEMENT MARKING AND PLACE TEMPORARY PAVEMENT MARKING LINE IF LANE CLOSURE IS TO BE IN PLACE FOR 4 OR MORE CONTINUOUS DAY AND NIGHT.

PLACE "RAMPS TO CLOSED" SIGN 7 CALENDAR DAYS PRIOR TO CLOSURE OR AS DIRECTED BY THE ENGINEER. SEE WISCONSIN STANDARD SIGN PLATES FOR LAYOUT.

ALL SIGNS ARE 48" X 48" IN SIZE UNLESS OTHERWISE NOTED.

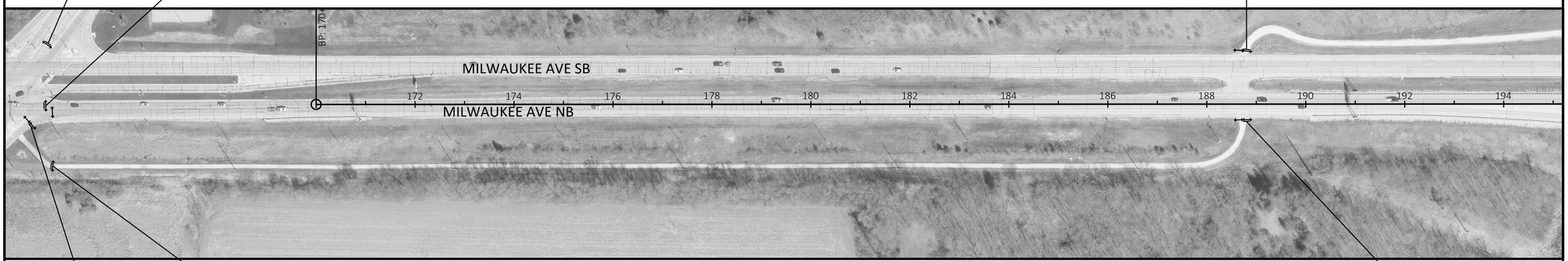


2

PROJECT NO: 3180-00-78	HWY: VAR HWY	COUNTY: RACINE	TRAFFIC CONTROL - STAGE 1 MILWAUKEE AVE.	SHEET 70	E

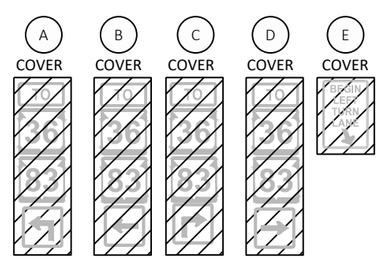
FILE NAME : N:\PDS\C3D\31800008\SHEETS\025003-TC.DWG
LAYOUT NAME - 02-tc
PLOT DATE : 10/29/2024 6:30 AM
PLOT BY : HAYNES, RONNIE
PLOT NAME :
PLOT SCALE : 1 IN:100 FT

2



LEGEND

- TYPE III BARRICADE
- TYPE III BARRICADE WITH ATTACHED SIGN
- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT
- SIGN ON PERMANENT SUPPORT
- SIGN ON TEMPORARY SUPPORT
- FLASHING ARROW BOARD
- DIRECTION OF TRAFFIC
- REMOVE PAVEMENT MARKING (SEE NOTES)
- COVER EXISTING SIGN



NOTES:

THE EXACT NUMBER, LOCATION, AND SPACING OF SIGNS SHALL BE ADJUSTED TO FIT FIELD CONDITIONS AS APPROVED BY THE ENGINEER.

THE SPACING BETWEEN TRAFFIC CONTROL AND DETOUR ROUTE SIGNS SHOULD BE ADJUSTED TO NOT CONFLICT WITH AND TO PROVIDE A DESIRABLE MINIMUM OF 200 FEET CLEARANCE TO EXISTING SIGNS THAT WILL REMAIN IN PLACE.

ANY SIGNS, TEMPORARY OR EXISTING, WHICH CONFLICT WITH TRAFFIC CONTROL "IN USE", SHALL BE REMOVED OR COVERED AS NEEDED AND APPROVED BY THE ENGINEER.

"MO" SIGNS ARE THE SAME AS "M" SIGNS EXCEPT THE BACKGROUND IS ORANGE.

SEE TRAFFIC CONTROL SHEETS FOR ADDITIONAL TEMPORARY SIGNING.

REMOVE PAVEMENT MARKING AND PLACE TEMPORARY PAVEMENT MARKING LINE IF LANE CLOSURE IS TO BE IN PLACE FOR 4 OR MORE CONTINUOUS DAY AND NIGHT.

PLACE "RAMPS TO CLOSED" SIGN 7 CALENDAR DAYS PRIOR TO CLOSURE OR AS DIRECTED BY THE ENGINEER. SEE WISCONSIN STANDARD SIGN PLATES FOR LAYOUT.

ALL SIGNS ARE 48" X 48" IN SIZE UNLESS OTHERWISE NOTED.

PROJECT NO: 3180-00-78	HWY: VAR HWY	COUNTY: RACINE	TRAFFIC CONTROL - STAGE 1 MILWAUKEE AVE.	SHEET 71	E

LEGEND

- DETOUR ROUTE
- (XX) DETOUR ROUTE SIGN NUMBER
- CONSTRUCTION LIMITS
- PROPOSED SIGN
- EXISTING SIGN
- DIRECTION OF TRAFFIC
- COVER EXISTING SIGN

NOTES:

THE EXACT NUMBER, LOCATION, AND SPACING OF SIGNS SHALL BE ADJUSTED TO FIT FIELD CONDITIONS AS APPROVED BY THE ENGINEER.

THE SPACING BETWEEN TRAFFIC CONTROL AND DETOUR ROUTE SIGNS SHOULD BE ADJUSTED TO NOT CONFLICT WITH AND TO PROVIDE A DESIRABLE MINIMUM OF 200 FEET CLEARANCE TO EXISTING SIGNS THAT WILL REMAIN IN PLACE.

ANY SIGNS, TEMPORARY OR EXISTING, WHICH CONFLICT WITH TRAFFIC CONTROL "IN USE", SHALL BE REMOVED OR COVERED AS NEEDED AND APPROVED BY THE ENGINEER.

"MO" SIGNS ARE THE SAME AS "M" SIGNS EXCEPT THE BACKGROUND IS ORANGE.

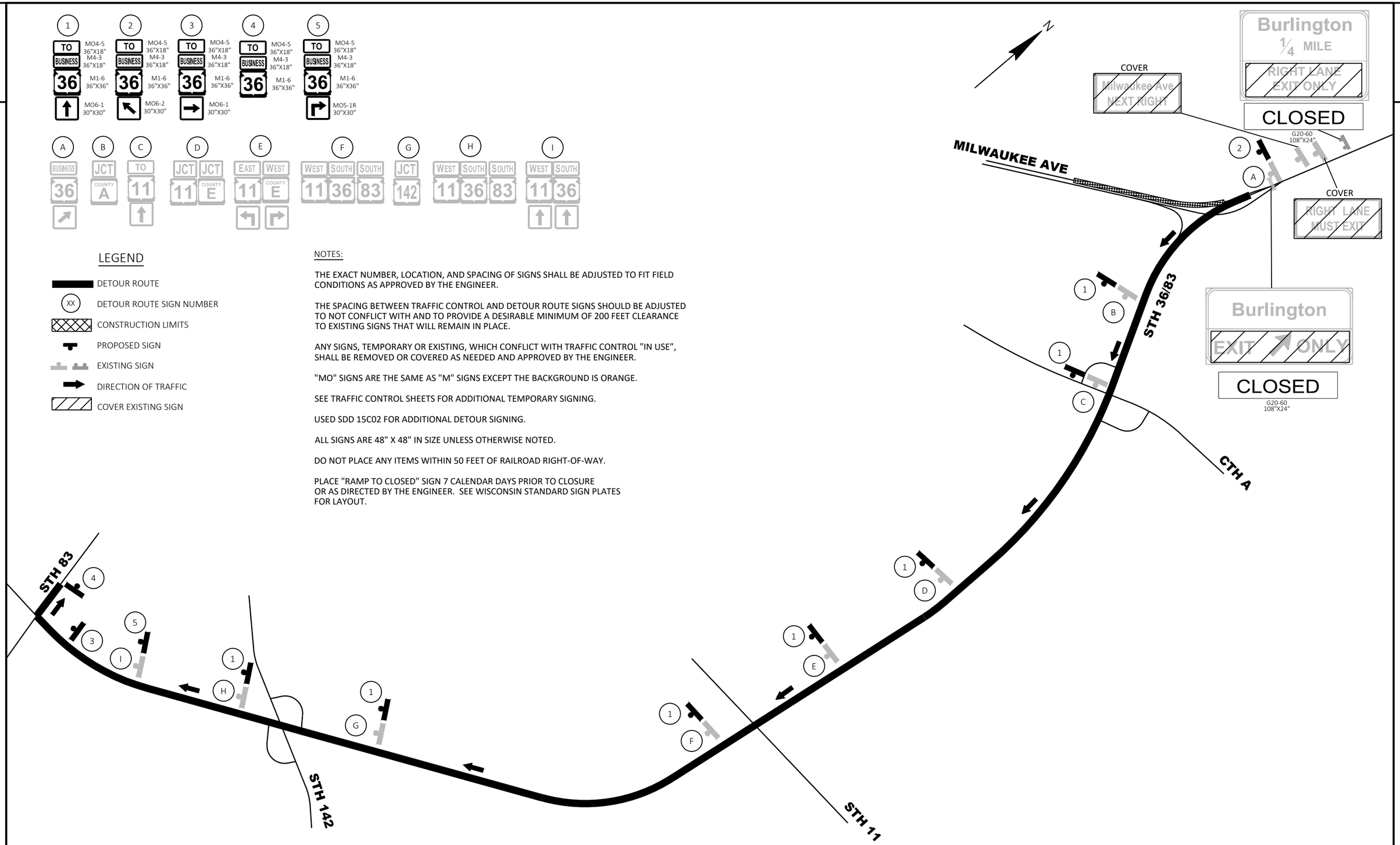
SEE TRAFFIC CONTROL SHEETS FOR ADDITIONAL TEMPORARY SIGNING.

USED SDD 15C02 FOR ADDITIONAL DETOUR SIGNING.

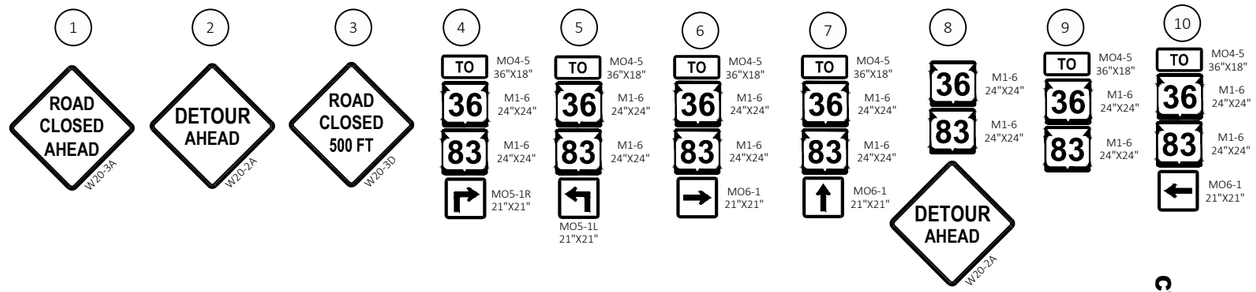
ALL SIGNS ARE 48" X 48" IN SIZE UNLESS OTHERWISE NOTED.

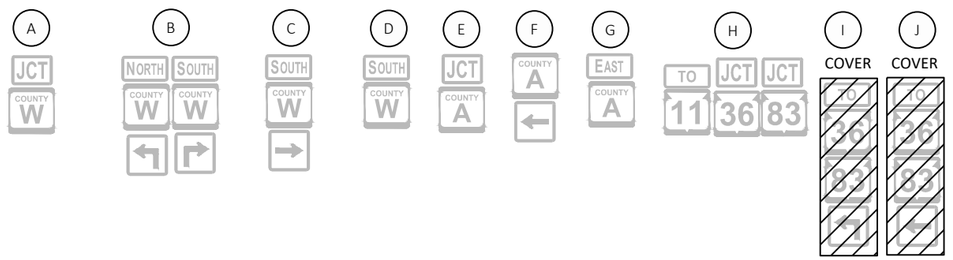
DO NOT PLACE ANY ITEMS WITHIN 50 FEET OF RAILROAD RIGHT-OF-WAY.

PLACE "RAMP TO CLOSED" SIGN 7 CALENDAR DAYS PRIOR TO CLOSURE OR AS DIRECTED BY THE ENGINEER. SEE WISCONSIN STANDARD SIGN PLATES FOR LAYOUT.



PROJECT NO: 3180-00-78	HWY: VAR HWY	COUNTY: RACINE	DETOUR - STAGE 1 (SB STH 36 RAMP TO MILWAUKEE AVE SB CLOSURE)	SHEET 72	E





NOTES:

THE EXACT NUMBER, LOCATION, AND SPACING OF SIGNS SHALL BE ADJUSTED TO FIT FIELD CONDITIONS AS APPROVED BY THE ENGINEER.

THE SPACING BETWEEN TRAFFIC CONTROL AND DETOUR ROUTE SIGNS SHOULD BE ADJUSTED TO NOT CONFLICT WITH AND TO PROVIDE A DESIRABLE MINIMUM OF 200 FEET CLEARANCE TO EXISTING SIGNS THAT WILL REMAIN IN PLACE.

ANY SIGNS, TEMPORARY OR EXISTING, WHICH CONFLICT WITH TRAFFIC CONTROL "IN USE", SHALL BE REMOVED OR COVERED AS NEEDED AND APPROVED BY THE ENGINEER.

"MO" SIGNS ARE THE SAME AS "M" SIGNS EXCEPT THE BACKGROUND IS ORANGE.

SEE TRAFFIC CONTROL SHEETS FOR ADDITIONAL TEMPORARY SIGNING.

USED SDD 15C02-09A DETAIL B FOR MAINLINE CLOSURE WITH POSTED DETOUR

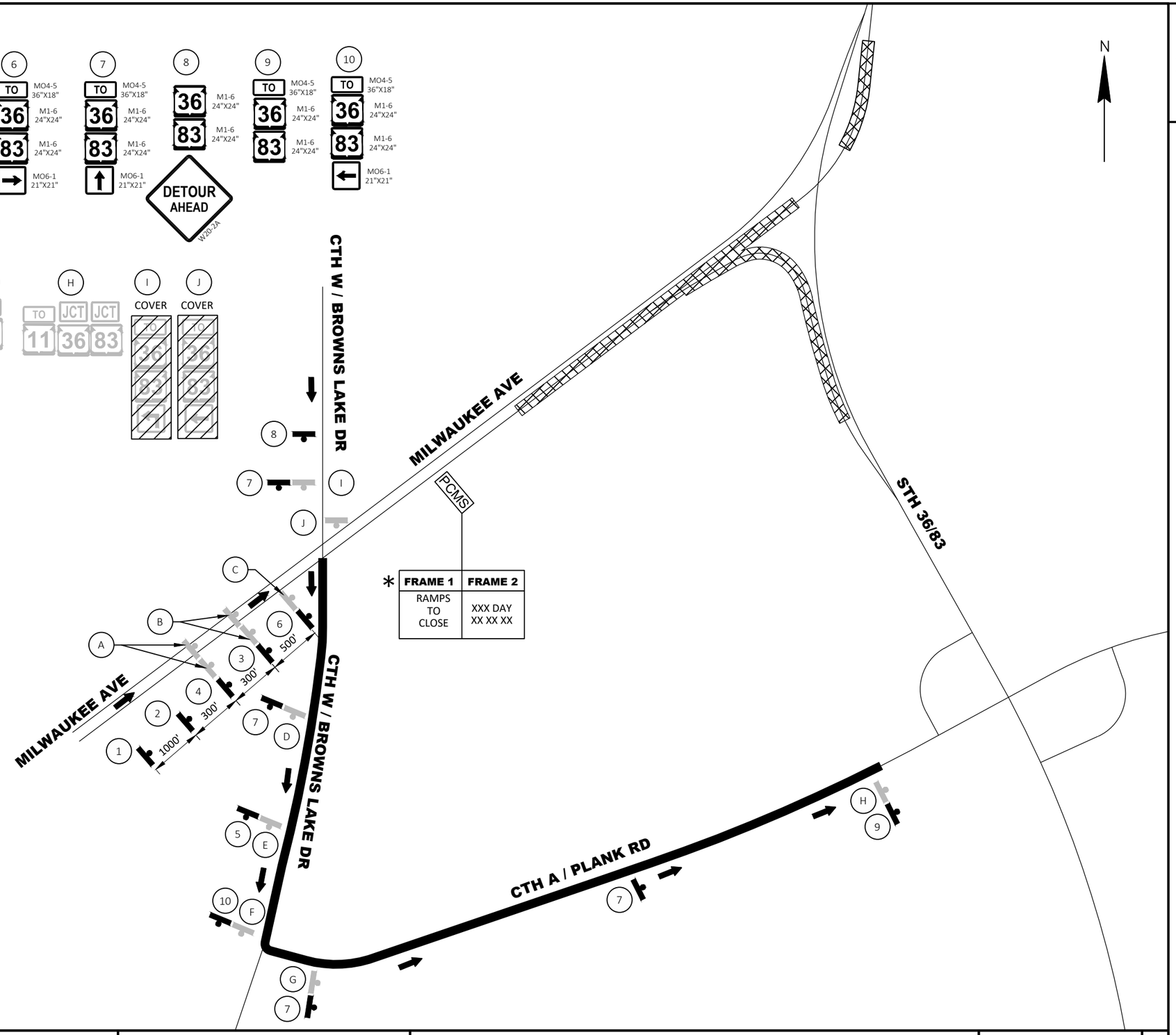
ALL SIGNS ARE 48" X 48" IN SIZE UNLESS OTHERWISE NOTED.

DO NOT PLACE ANY ITEMS WITHIN 50 FEET OF RAILROAD RIGHT-OF-WAY.

* PLACE "RAMPS TO CLOSED" SIGN 7 CALENDAR DAYS PRIOR TO CLOSURE OR AS DIRECTED BY THE ENGINEER. SEE WISCONSIN STANDARD SIGN PLATES FOR LAYOUT.

LEGEND

- DETOUR ROUTE
- (XX) DETOUR ROUTE SIGN NUMBER
- CONSTRUCTION LIMITS
- PROPOSED SIGN
- EXISTING SIGN
- PCMS PORTABLE CHANGEABLE MESSAGE SIGN
- DIRECTION OF TRAFFIC
- COVER EXISTING SIGN



* FRAME 1	FRAME 2
RAMPS TO CLOSE	XXX DAY XX XX XX

PROJECT NO: 3180-00-78	HWY: VAR HWY	COUNTY: RACINE	DETOUR - STAGE 1 (NB MILWAUKEE AVE CLOSURE)	SHEET 73	E

NOTES:

THE EXACT NUMBER, LOCATION, AND SPACING OF SIGNS SHALL BE ADJUSTED TO FIT FIELD CONDITIONS AS APPROVED BY THE ENGINEER.

THE SPACING BETWEEN TRAFFIC CONTROL AND DETOUR ROUTE SIGNS SHOULD BE ADJUSTED TO NOT CONFLICT WITH AND TO PROVIDE A DESIRABLE MINIMUM OF 200 FEET CLEARANCE TO EXISTING SIGNS THAT WILL REMAIN IN PLACE.

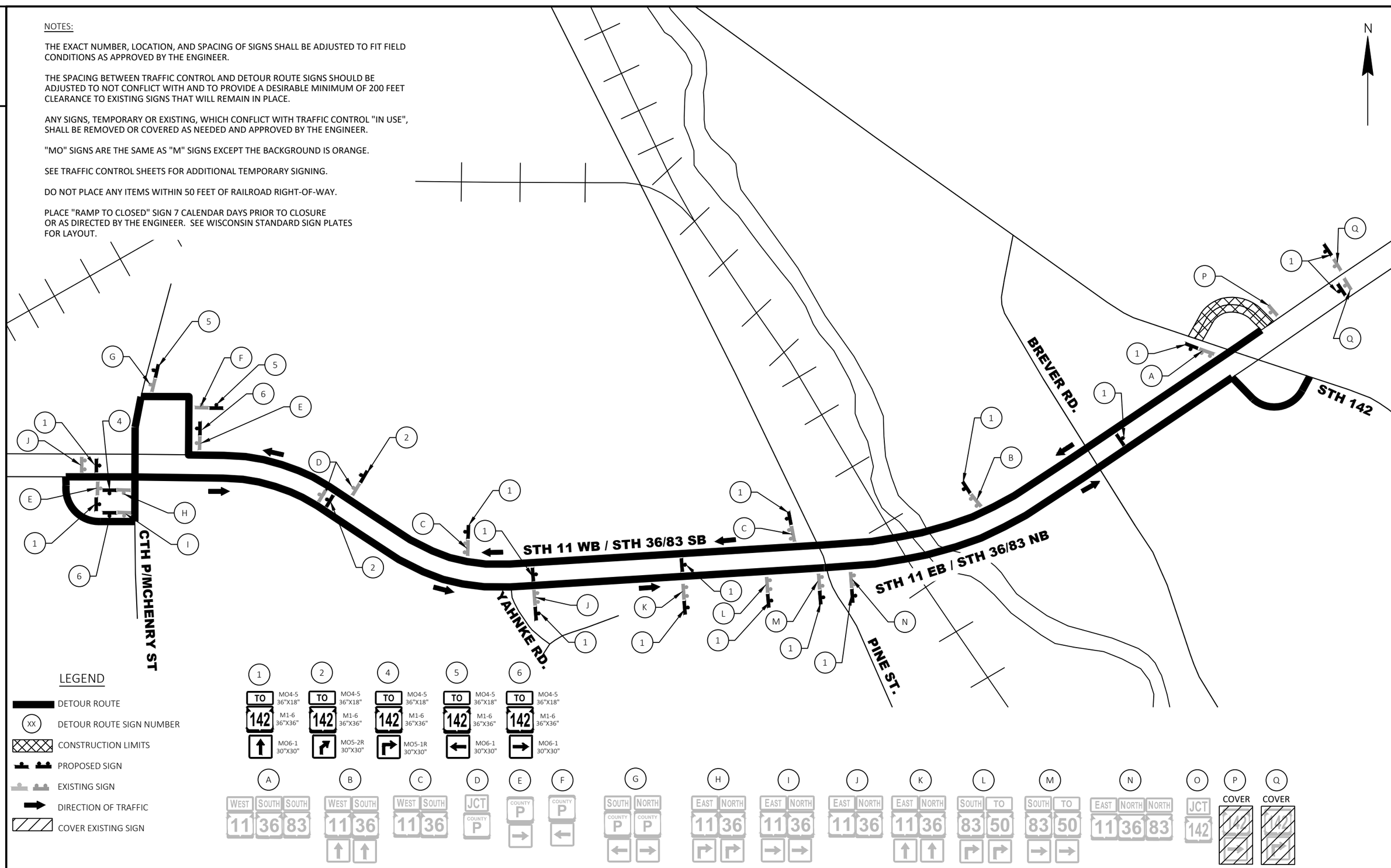
ANY SIGNS, TEMPORARY OR EXISTING, WHICH CONFLICT WITH TRAFFIC CONTROL "IN USE", SHALL BE REMOVED OR COVERED AS NEEDED AND APPROVED BY THE ENGINEER.

"MO" SIGNS ARE THE SAME AS "M" SIGNS EXCEPT THE BACKGROUND IS ORANGE.

SEE TRAFFIC CONTROL SHEETS FOR ADDITIONAL TEMPORARY SIGNING.

DO NOT PLACE ANY ITEMS WITHIN 50 FEET OF RAILROAD RIGHT-OF-WAY.

PLACE "RAMP TO CLOSED" SIGN 7 CALENDAR DAYS PRIOR TO CLOSURE OR AS DIRECTED BY THE ENGINEER. SEE WISCONSIN STANDARD SIGN PLATES FOR LAYOUT.



PROJECT NO: 3180-00-78	HWY: VAR HWY	COUNTY: RACINE	DETOUR - STAGE 3A TO STH 142 (STH 142 NE RAMPS CLOSURE)	SHEET 74	E

NOTES:

THE EXACT NUMBER, LOCATION, AND SPACING OF SIGNS SHALL BE ADJUSTED TO FIT FIELD CONDITIONS AS APPROVED BY THE ENGINEER.

THE SPACING BETWEEN TRAFFIC CONTROL AND DETOUR ROUTE SIGNS SHOULD BE ADJUSTED TO NOT CONFLICT WITH AND TO PROVIDE A DESIRABLE MINIMUM OF 200 FEET CLEARANCE TO EXISTING SIGNS THAT WILL REMAIN IN PLACE.

ANY SIGNS, TEMPORARY OR EXISTING, WHICH CONFLICT WITH TRAFFIC CONTROL "IN USE", SHALL BE REMOVED OR COVERED AS NEEDED AND APPROVED BY THE ENGINEER.

"MO" SIGNS ARE THE SAME AS "M" SIGNS EXCEPT THE BACKGROUND IS ORANGE.

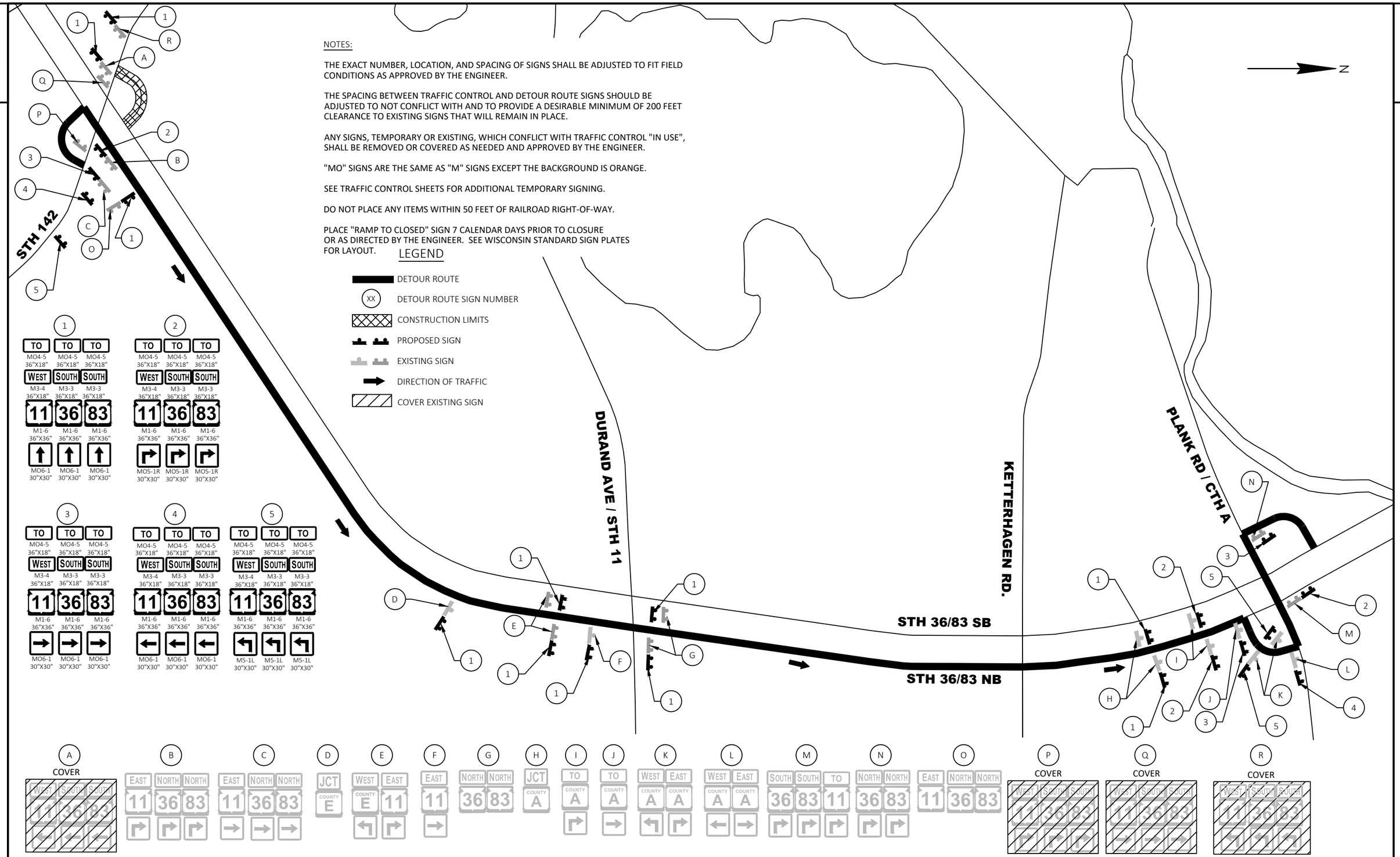
SEE TRAFFIC CONTROL SHEETS FOR ADDITIONAL TEMPORARY SIGNING.

DO NOT PLACE ANY ITEMS WITHIN 50 FEET OF RAILROAD RIGHT-OF-WAY.

PLACE "RAMP TO CLOSED" SIGN 7 CALENDAR DAYS PRIOR TO CLOSURE OR AS DIRECTED BY THE ENGINEER. SEE WISCONSIN STANDARD SIGN PLATES FOR LAYOUT.

LEGEND

- DETOUR ROUTE
- XX DETOUR ROUTE SIGN NUMBER
- CONSTRUCTION LIMITS
- PROPOSED SIGN
- EXISTING SIGN
- DIRECTION OF TRAFFIC
- COVER EXISTING SIGN



PROJECT NO: 3180-00-78	HWY: VAR HWY	COUNTY: RACINE	DETOUR - STAGE 3A TO STH 36 SB (STH 142 NE RAMPS CLOSURE)	SHEET 75	E

2

NOTES:

THE EXACT NUMBER, LOCATION, AND SPACING OF SIGNS SHALL BE ADJUSTED TO FIT FIELD CONDITIONS AS APPROVED BY THE ENGINEER.

THE SPACING BETWEEN TRAFFIC CONTROL AND DETOUR ROUTE SIGNS SHOULD BE ADJUSTED TO NOT CONFLICT WITH AND TO PROVIDE A DESIRABLE MINIMUM OF 200 FEET CLEARANCE TO EXISTING SIGNS THAT WILL REMAIN IN PLACE.

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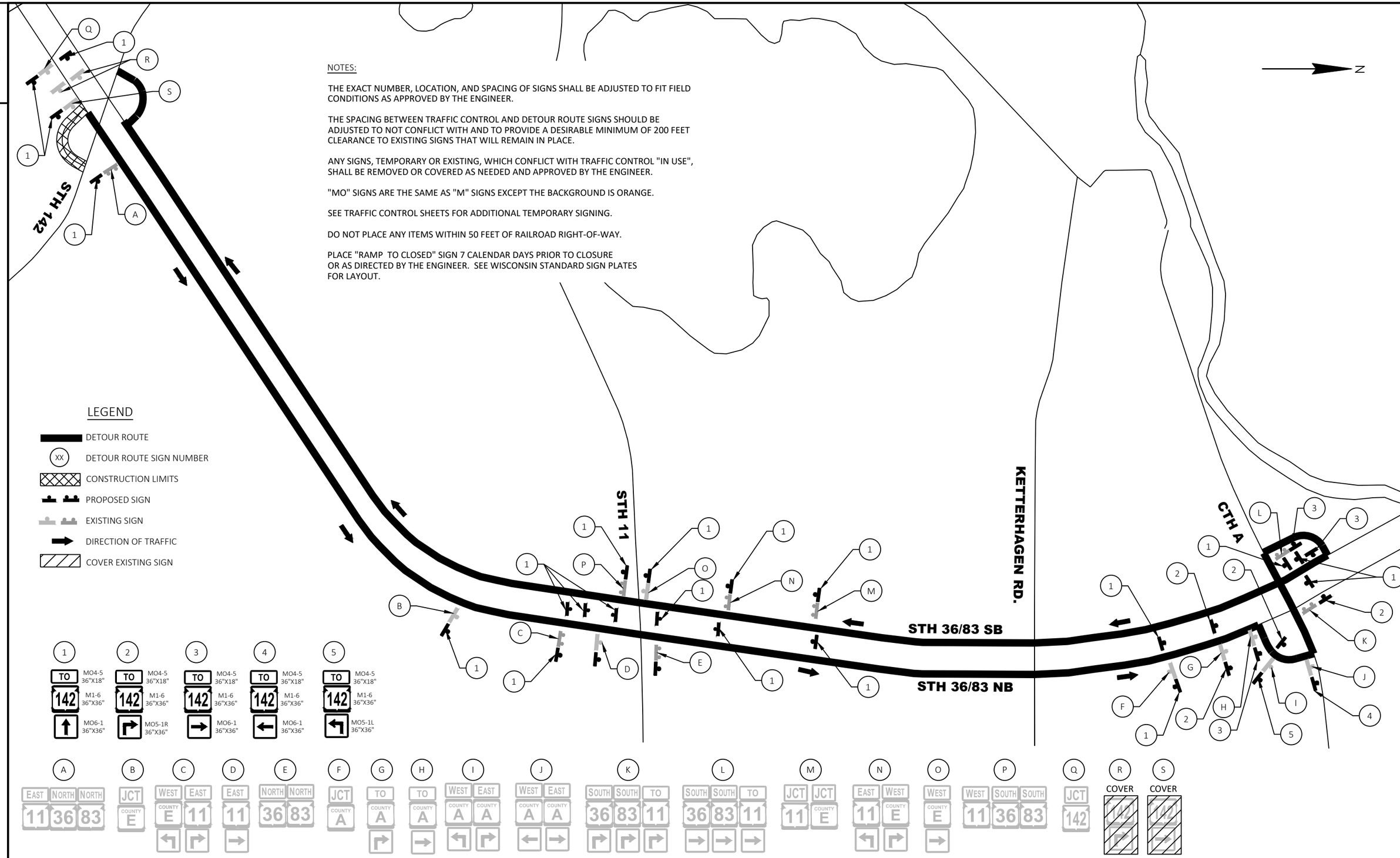
"MO" SIGNS ARE THE SAME AS "M" SIGNS EXCEPT THE BACKGROUND IS ORANGE.

SEE TRAFFIC CONTROL SHEETS FOR ADDITIONAL TEMPORARY SIGNING.

DO NOT PLACE ANY ITEMS WITHIN 50 FEET OF RAILROAD RIGHT-OF-WAY.

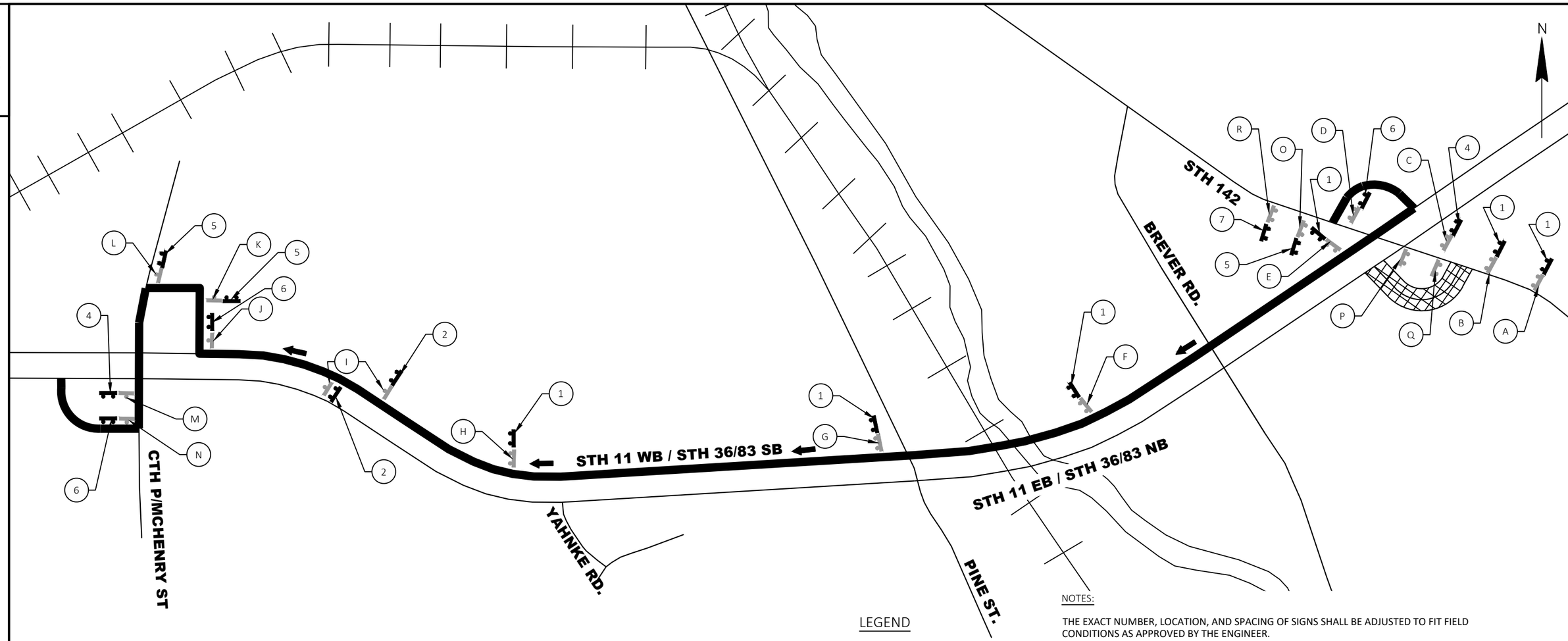
PLACE "RAMP TO CLOSED" SIGN 7 CALENDAR DAYS PRIOR TO CLOSURE OR AS DIRECTED BY THE ENGINEER. SEE WISCONSIN STANDARD SIGN PLATES FOR LAYOUT.



2

PROJECT NO: 3180-00-78	HWY: VAR HWY	COUNTY: RACINE	DETOUR - STAGE 3B TO STH 142 (STH 142 SW RAMPS CLOSURE)	SHEET 76	E

FILE NAME : N:\PDS\C3D\31800008\SHEETS\027005-DT.DWG
LAYOUT NAME - 05-dt
PLOT DATE : 10/29/2024 6:38 AM PLOT BY : HAYNES, RONNIE PLOT NAME : PLOT SCALE : Custom



LEGEND

- DETOUR ROUTE
- (XX) DETOUR ROUTE SIGN NUMBER
- CONSTRUCTION LIMITS
- PROPOSED SIGN
- EXISTING SIGN
- DIRECTION OF TRAFFIC
- COVER EXISTING SIGN

NOTES:

THE EXACT NUMBER, LOCATION, AND SPACING OF SIGNS SHALL BE ADJUSTED TO FIT FIELD CONDITIONS AS APPROVED BY THE ENGINEER.

THE SPACING BETWEEN TRAFFIC CONTROL AND DETOUR ROUTE SIGNS SHOULD BE ADJUSTED TO NOT CONFLICT WITH AND TO PROVIDE A DESIRABLE MINIMUM OF 200 FEET CLEARANCE TO EXISTING SIGNS THAT WILL REMAIN IN PLACE.

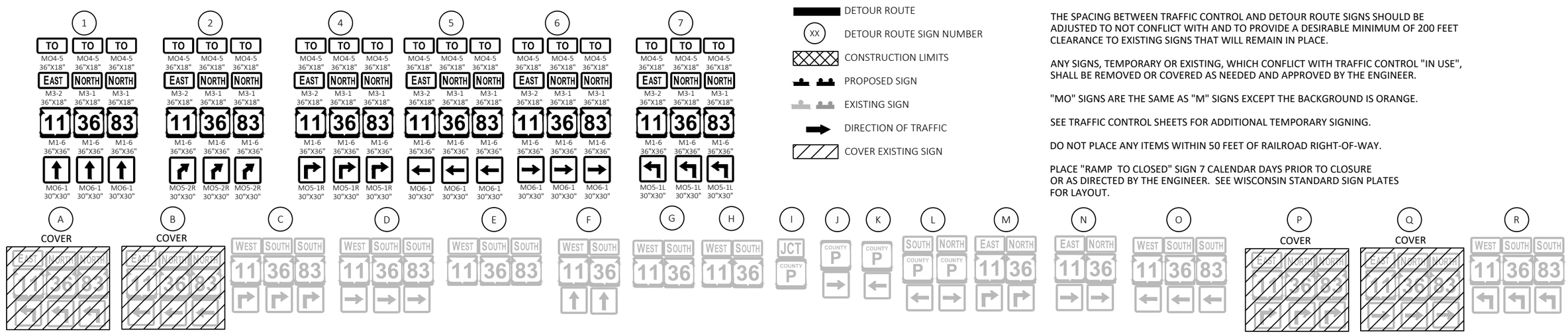
ANY SIGNS, TEMPORARY OR EXISTING, WHICH CONFLICT WITH TRAFFIC CONTROL "IN USE", SHALL BE REMOVED OR COVERED AS NEEDED AND APPROVED BY THE ENGINEER.

"MO" SIGNS ARE THE SAME AS "M" SIGNS EXCEPT THE BACKGROUND IS ORANGE.

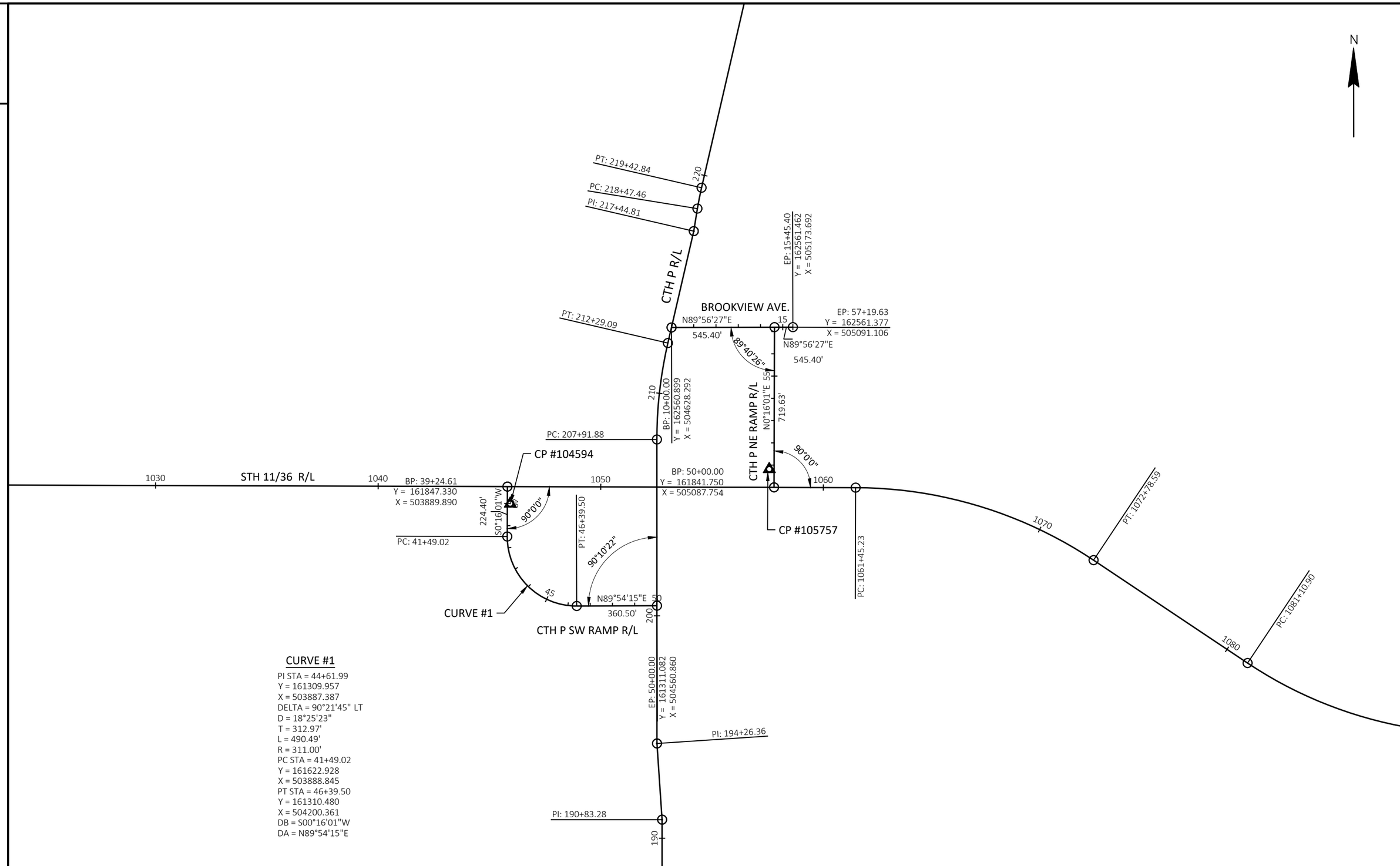
SEE TRAFFIC CONTROL SHEETS FOR ADDITIONAL TEMPORARY SIGNING.

DO NOT PLACE ANY ITEMS WITHIN 50 FEET OF RAILROAD RIGHT-OF-WAY.

PLACE "RAMP TO CLOSED" SIGN 7 CALENDAR DAYS PRIOR TO CLOSURE OR AS DIRECTED BY THE ENGINEER. SEE WISCONSIN STANDARD SIGN PLATES FOR LAYOUT.



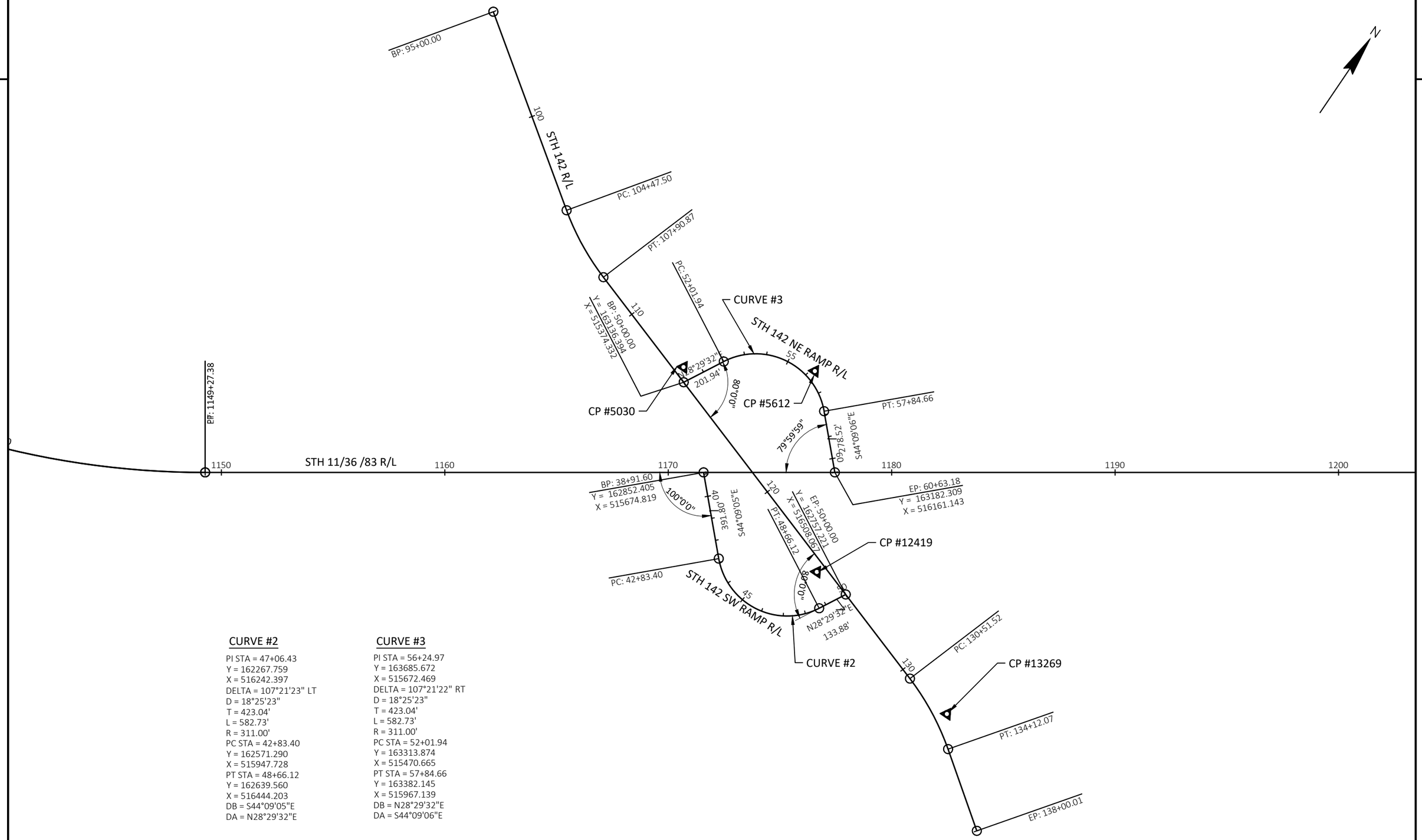
PROJECT NO: 3180-00-78	HWY: VAR HWY	COUNTY: RACINE	DETOUR - STAGE 3B TO STH 36 NB (STH 142 SW RAMPS CLOSURE)	SHEET 77	E



CURVE #1

PI STA = 44+61.99
Y = 161309.957
X = 503887.387
DELTA = 90°21'45" LT
D = 18°25'23"
T = 312.97'
L = 490.49'
R = 311.00'
PC STA = 41+49.02
Y = 161622.928
X = 503888.845
PT STA = 46+39.50
Y = 161310.480
X = 504200.361
DB = S00°16'01"W
DA = N89°54'15"E

PROJECT NO: 3180-00-78	HWY: VARHWY	COUNTY: RACINE	ALIGNMENT LAYOUT	SHEET 78	E

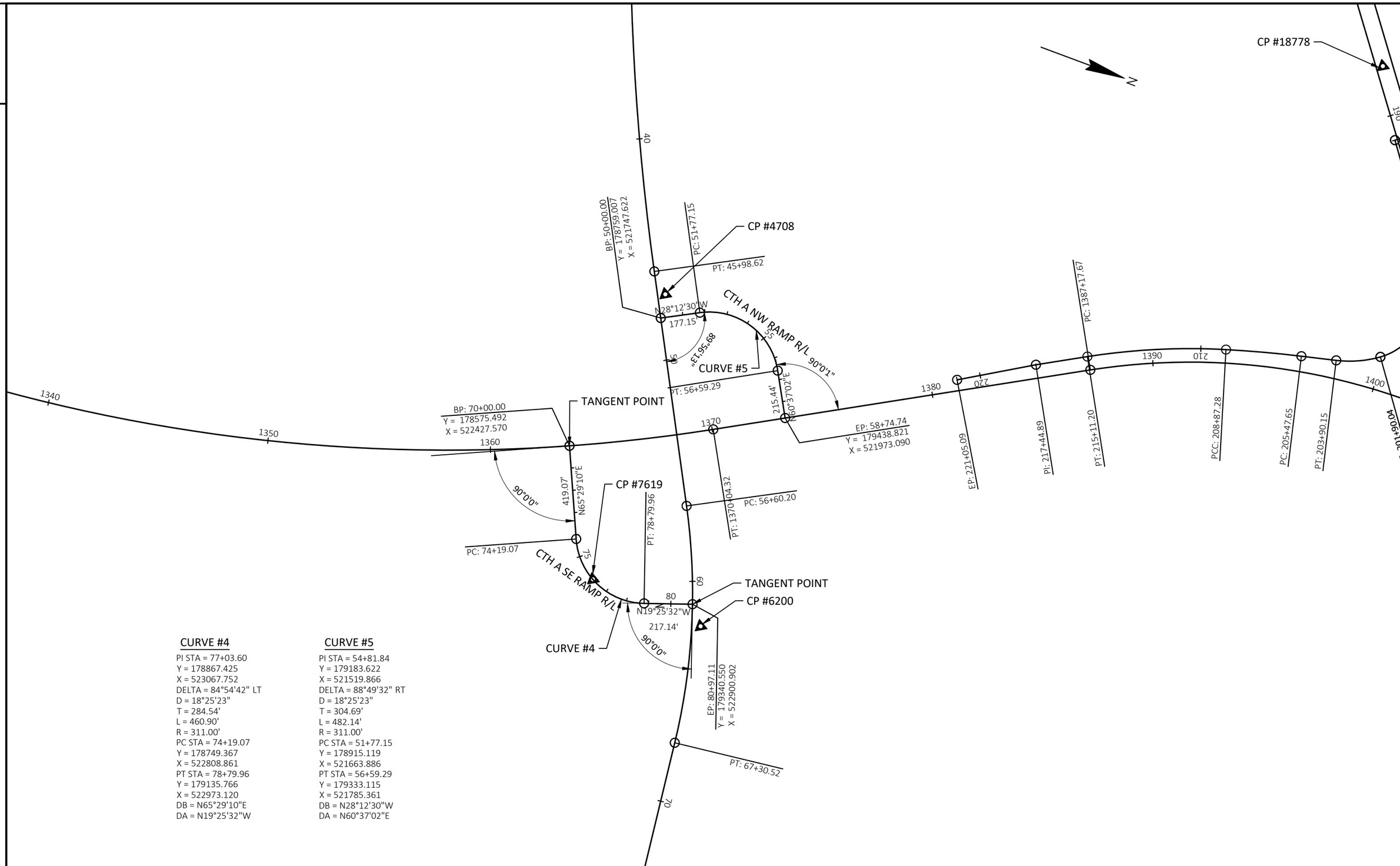


CURVE #2

PI STA = 47+06.43
Y = 162267.759
X = 516242.397
DELTA = 107°21'23" LT
D = 18°25'23"
T = 423.04'
L = 582.73'
R = 311.00'
PC STA = 42+83.40
Y = 162571.290
X = 515947.728
PT STA = 48+66.12
Y = 162639.560
X = 516444.203
DB = S44°09'05"E
DA = N28°29'32"E

CURVE #3

PI STA = 56+24.97
Y = 163685.672
X = 515672.469
DELTA = 107°21'22" RT
D = 18°25'23"
T = 423.04'
L = 582.73'
R = 311.00'
PC STA = 52+01.94
Y = 163313.874
X = 515470.665
PT STA = 57+84.66
Y = 163382.145
X = 515967.139
DB = N28°29'32"E
DA = S44°09'06"E



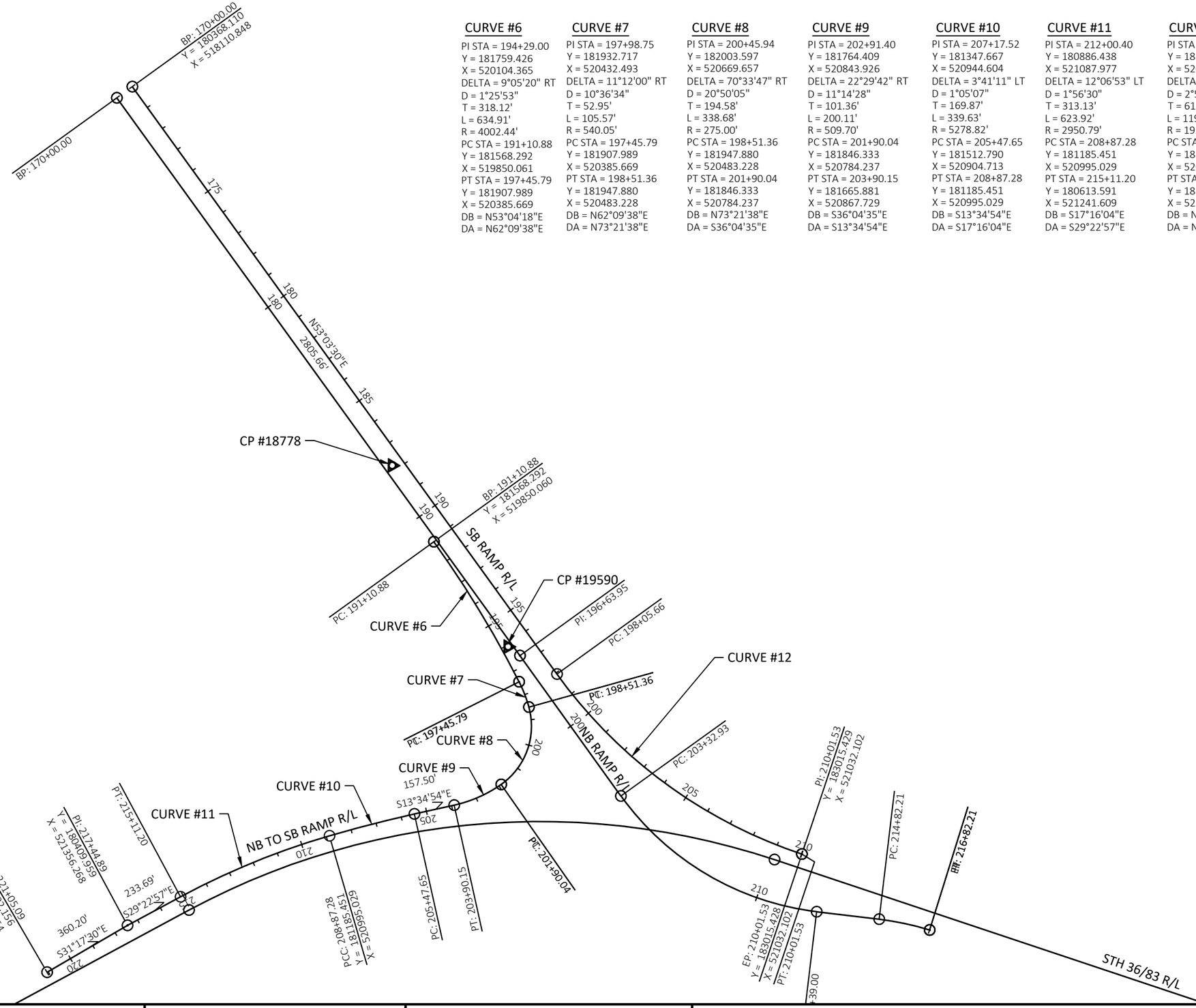
CURVE #4

PI STA = 77+03.60
Y = 178867.425
X = 523067.752
DELTA = 84°54'42" LT
D = 18°25'23"
T = 284.54'
L = 460.90'
R = 311.00'
PC STA = 74+19.07
Y = 178749.367
X = 522808.861
PT STA = 78+79.96
Y = 179135.766
X = 522973.120
DB = N65°29'10"E
DA = N19°25'32"W

CURVE #5

PI STA = 54+81.84
Y = 179183.622
X = 521519.866
DELTA = 88°49'32" RT
D = 18°25'23"
T = 304.69'
L = 482.14'
R = 311.00'
PC STA = 51+77.15
Y = 178915.119
X = 521663.886
PT STA = 56+59.29
Y = 179333.115
X = 521785.361
DB = N28°12'30"W
DA = N60°37'02"E

PROJECT NO: 3180-00-78	HWY: VARHWY	COUNTY: RACINE	ALIGNMENT LAYOUT	SHEET 80	E



CURVE #6

PI STA = 194+29.00
Y = 181759.426
X = 520104.365
DELTA = 9°05'20" RT
D = 1°25'53"
T = 318.12'
L = 634.91'
R = 4002.44'
PC STA = 191+10.88
Y = 181568.292
X = 519850.061
PT STA = 197+45.79
Y = 181907.989
X = 520385.669
DB = N53°04'18"E
DA = N62°09'38"E

CURVE #7

PI STA = 197+98.75
Y = 181932.717
X = 520432.493
DELTA = 11°12'00" RT
D = 10°36'34"
T = 52.95'
L = 105.57'
R = 540.05'
PC STA = 197+45.79
Y = 181907.989
X = 520385.669
PT STA = 198+51.36
Y = 181947.880
X = 520483.228
DB = N62°09'38"E
DA = N73°21'38"E

CURVE #8

PI STA = 200+45.94
Y = 182003.597
X = 520669.657
DELTA = 70°33'47" RT
D = 20°50'05"
T = 194.58'
L = 338.68'
R = 275.00'
PC STA = 198+51.36
Y = 181947.880
X = 520483.228
PT STA = 201+90.04
Y = 181846.333
X = 520784.237
DB = N73°21'38"E
DA = S36°04'35"E

CURVE #9

PI STA = 202+91.40
Y = 181764.409
X = 520843.926
DELTA = 22°29'42" RT
D = 11°14'28"
T = 101.36'
L = 200.11'
R = 509.70'
PC STA = 201+90.04
Y = 181846.333
X = 520784.237
PT STA = 203+90.15
Y = 181665.881
X = 520867.729
DB = S36°04'35"E
DA = S13°34'54"E

CURVE #10

PI STA = 207+17.52
Y = 181347.667
X = 520944.604
DELTA = 3°41'11" LT
D = 1°05'07"
T = 169.87'
L = 339.63'
R = 5278.82'
PC STA = 205+47.65
Y = 181512.790
X = 520904.713
PT STA = 208+87.28
Y = 181185.451
X = 520995.029
DB = S13°34'54"E
DA = S17°16'04"E

CURVE #11

PI STA = 212+00.40
Y = 180886.438
X = 521087.977
DELTA = 12°06'53" LT
D = 1°56'30"
T = 313.13'
L = 623.92'
R = 2950.79'
PC STA = 208+87.28
Y = 181185.451
X = 520995.029
PT STA = 215+11.20
Y = 180613.591
X = 521241.609
DB = S17°16'04"E
DA = S29°22'57"E

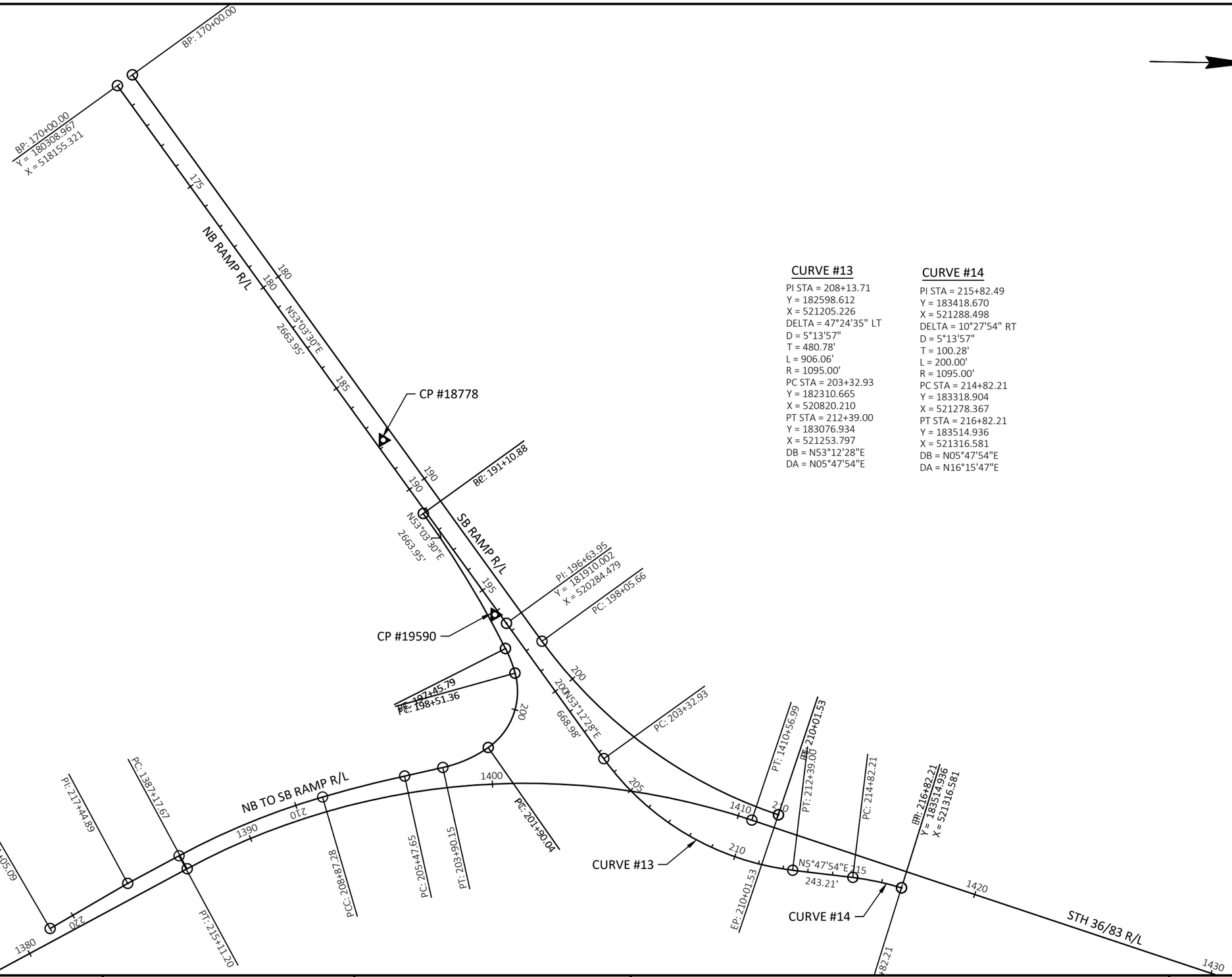
CURVE #12

PI STA = 204+23.66
Y = 182425.736
X = 520847.201
DELTA = 35°38'57" LT
D = 2°58'52"
T = 618.00'
L = 1195.87'
R = 1922.01'
PC STA = 198+05.66
Y = 182054.316
X = 520353.265
PT STA = 210+01.53
Y = 183015.428
X = 521032.102
DB = N53°03'30"E
DA = N17°24'33"E

N

2

PROJECT NO: 3180-00-78	HWY: VARHWY	COUNTY: RACINE	ALIGNMENT LAYOUT - NB TO SB RAMP AND SB RAMP	SHEET 81	E



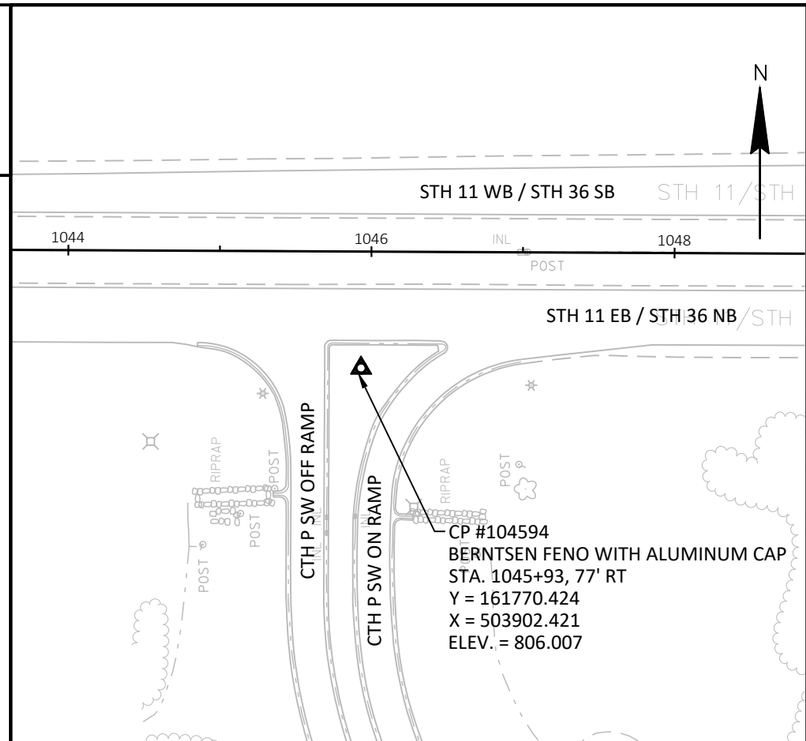
CURVE #13

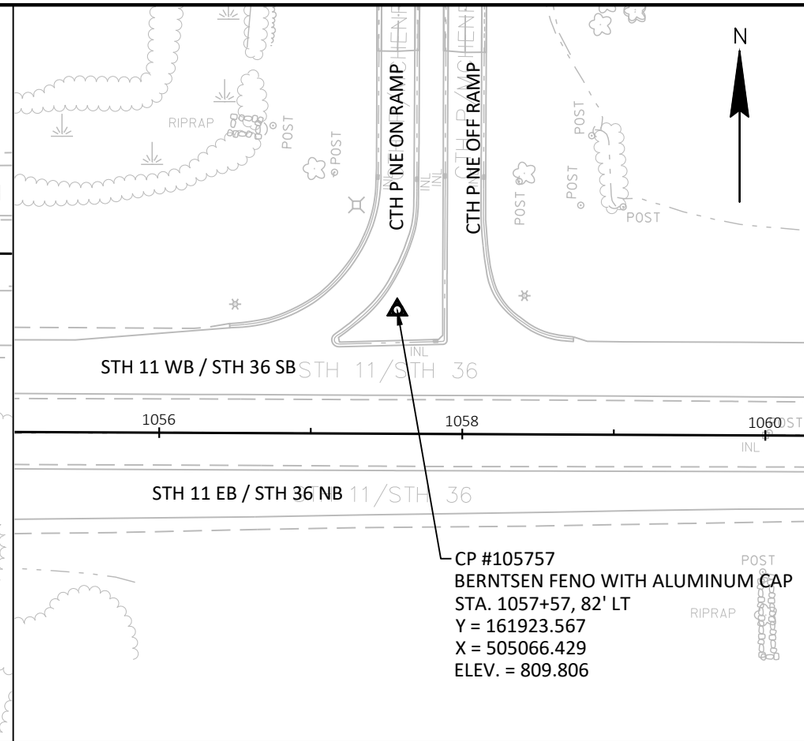
PI STA = 208+13.71
Y = 182598.612
X = 521205.226
DELTA = 47°24'35" LT
D = 5°13'57"
T = 480.78'
L = 906.06'
R = 1095.00'
PC STA = 203+32.93
Y = 182310.665
X = 520820.210
PT STA = 212+39.00
Y = 183076.934
X = 521253.797
DB = N53°12'28"E
DA = N05°47'54"E

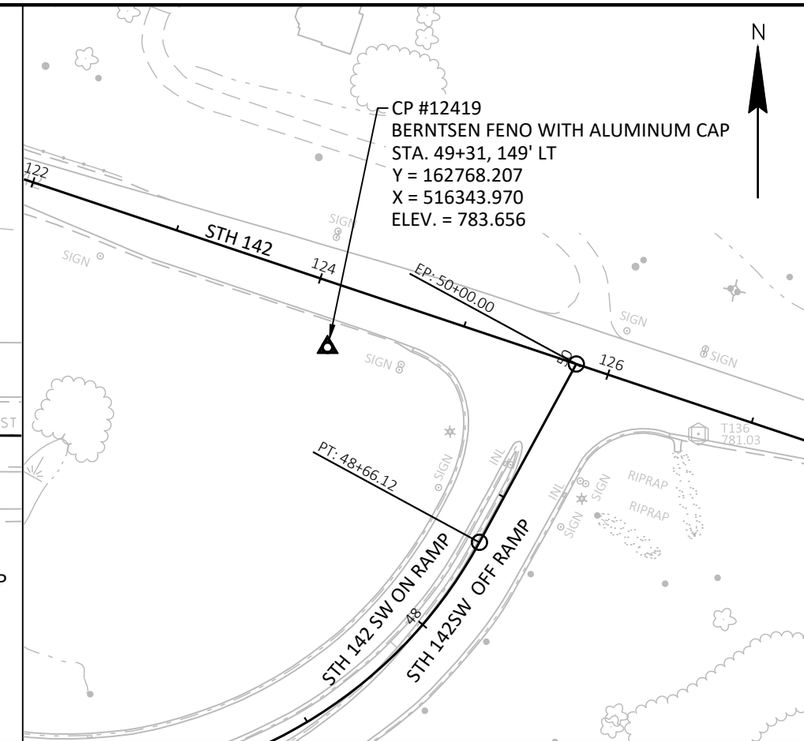
CURVE #14

PI STA = 215+82.49
Y = 183418.670
X = 521288.498
DELTA = 10°27'54" RT
D = 5°13'57"
T = 100.28'
L = 200.00'
R = 1095.00'
PC STA = 214+82.21
Y = 183318.904
X = 521278.367
PT STA = 216+82.21
Y = 183514.936
X = 521316.581
DB = N05°47'54"E
DA = N16°15'47"E

2







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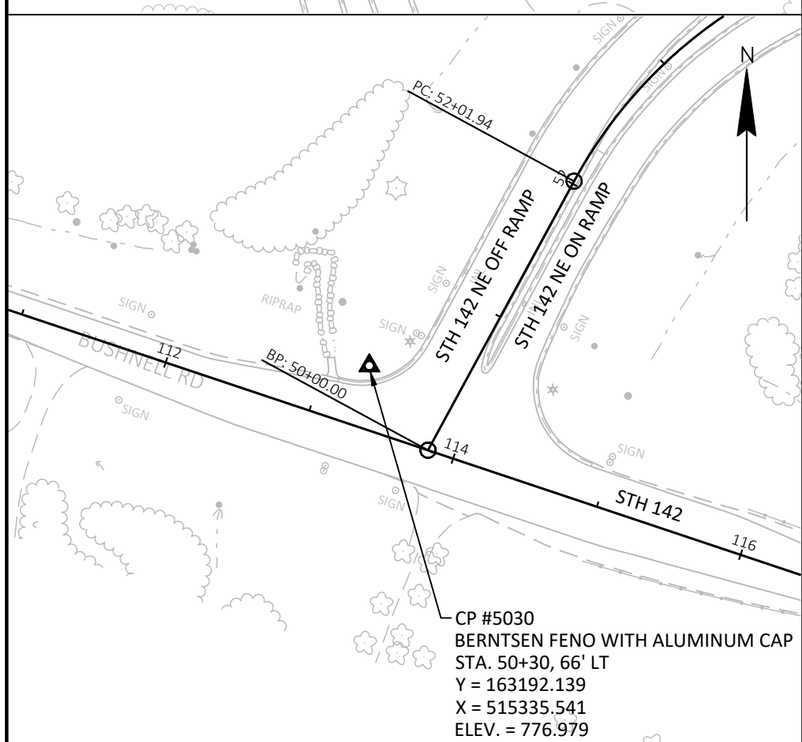
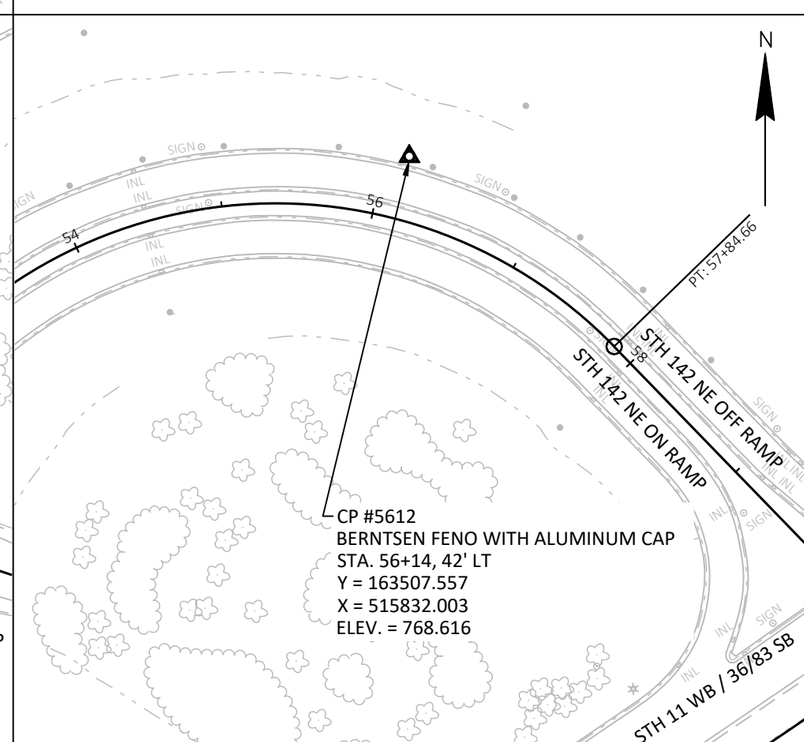
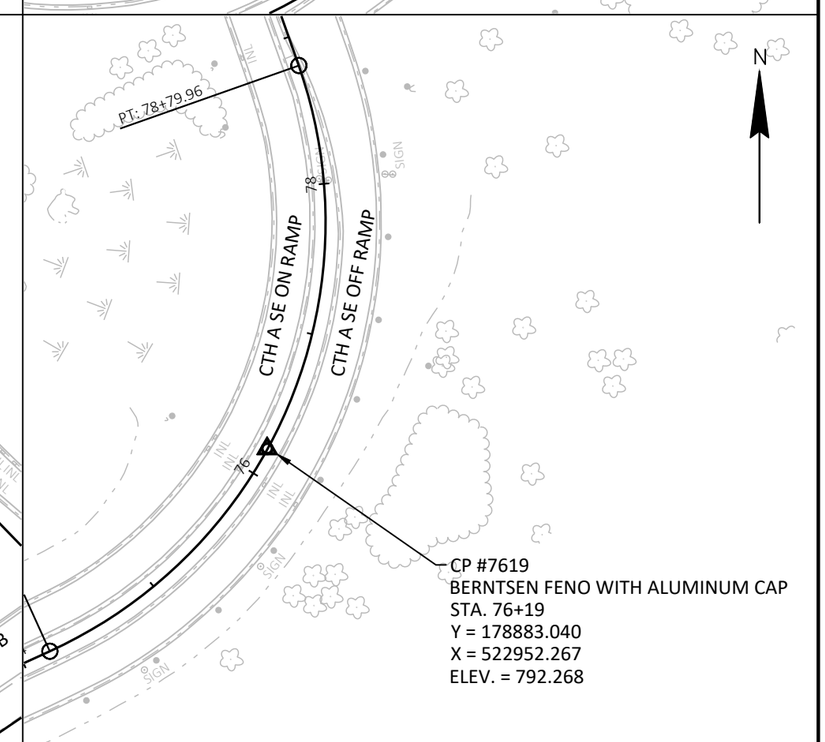
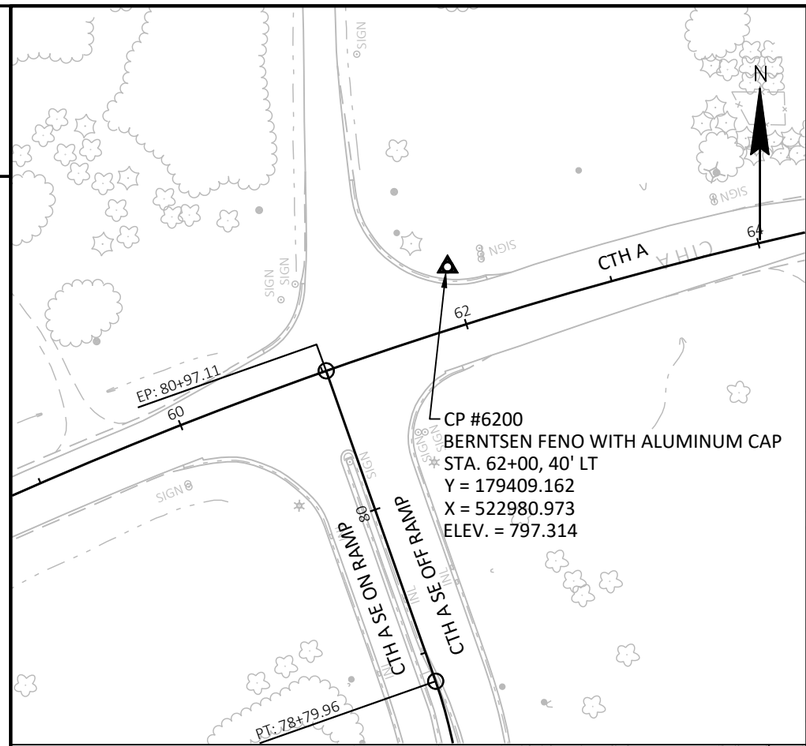


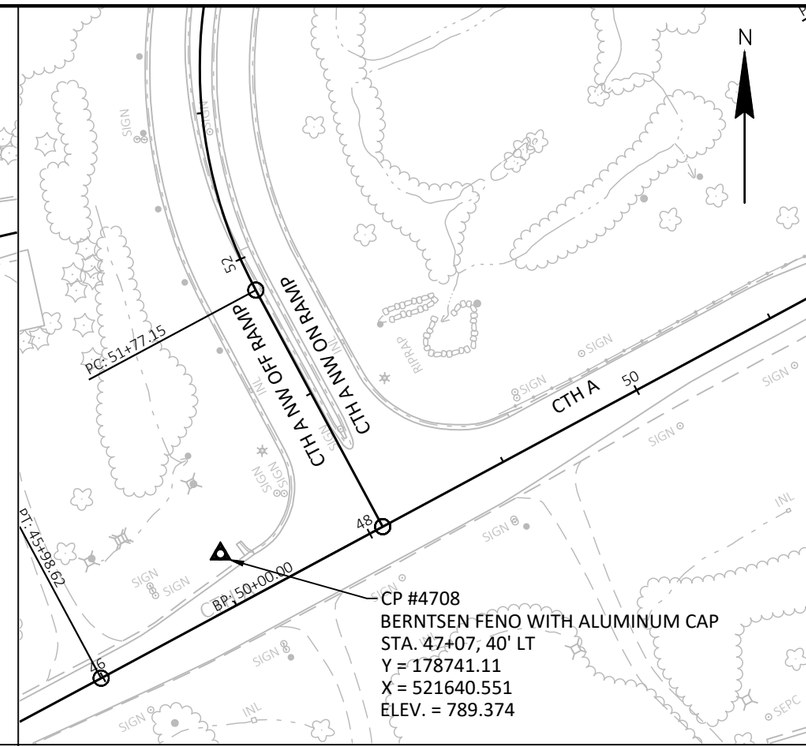


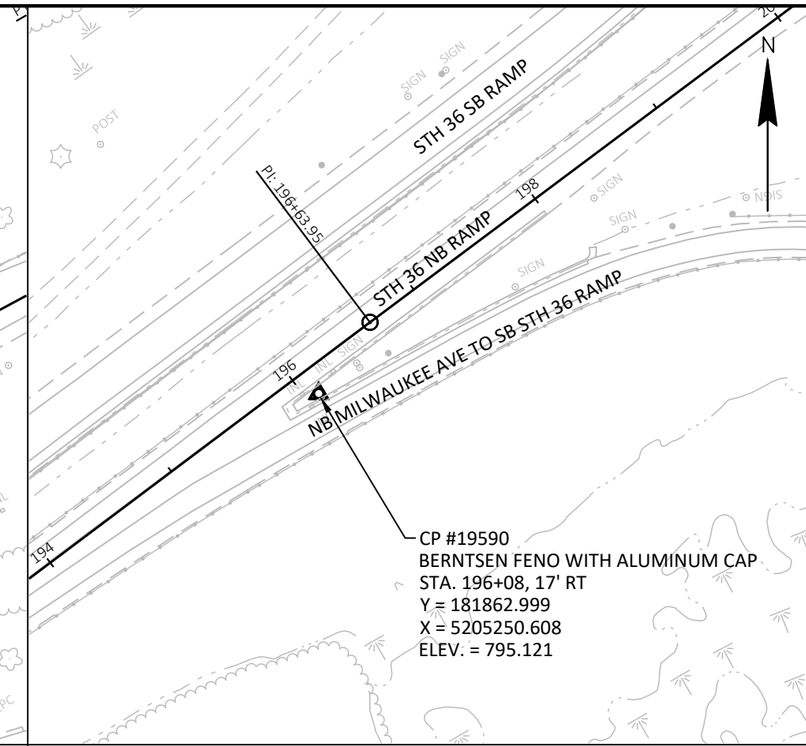


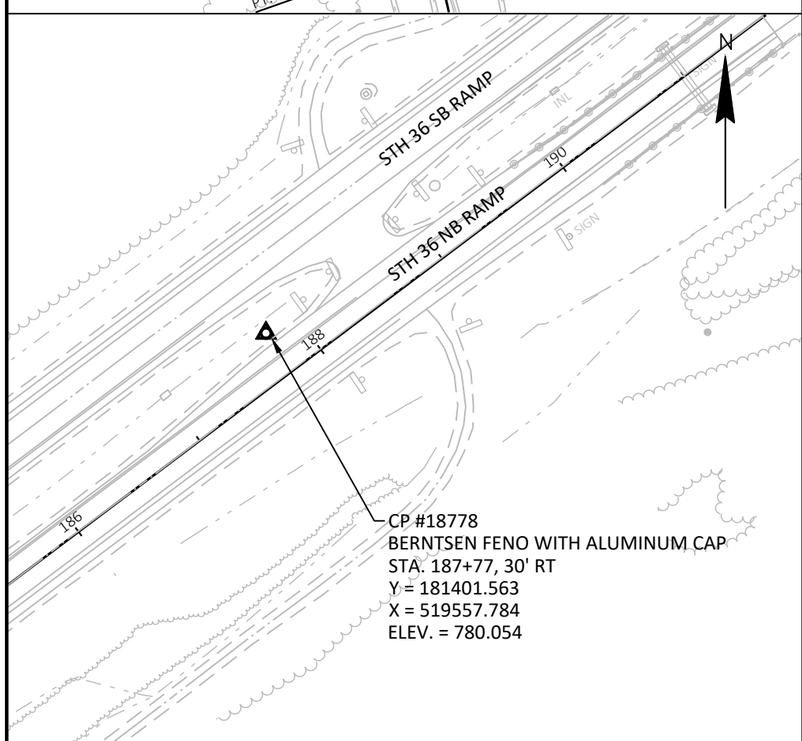
2

PROJECT NO: 3180-00-78	HWY: VAR HWY	COUNTY: RACINE	ALIGNMENT LAYOUT - SURVEY CONTROL	SHEET 83	E


N
CTH A
64
62
60
EP: 80+97.11
CTH A SE ON RAMP
CTH A SE OFF RAMP
PT: 78+79.96
CP #6200
BERNTSEN FENO WITH ALUMINUM CAP
STA. 62+00, 40' LT
Y = 179409.162
X = 522980.973
ELEV. = 797.314


N
CTH A
52
50
48
46
PC: 51+77.15
CTH A NW OFF RAMP
CTH A NW ON RAMP
PT: 45+98.62
BP: 50+00.00
CP #4708
BERNTSEN FENO WITH ALUMINUM CAP
STA. 47+07, 40' LT
Y = 178741.11
X = 521640.551
ELEV. = 789.374


N
STH 36 SB RAMP
STH 36 NB RAMP
NB MILWAUKEE AVE TO SB STH 36 RAMP
PI: 196+63.95
198
196
194
CP #19590
BERNTSEN FENO WITH ALUMINUM CAP
STA. 196+08, 17' RT
Y = 181862.999
X = 5205250.608
ELEV. = 795.121


N
STH 36 SB RAMP
STH 36 NB RAMP
190
188
186
CP #18778
BERNTSEN FENO WITH ALUMINUM CAP
STA. 187+77, 30' RT
Y = 181401.563
X = 519557.784
ELEV. = 780.054

Estimate Of Quantities

3180-00-78

Line	Item	Item Description	Unit	Total	Qty
0002	204.0110	Removing Asphaltic Surface	SY	10,900.000	10,900.000
0004	204.0115	Removing Asphaltic Surface Butt Joints	SY	340.000	340.000
0006	204.0125	Removing Asphaltic Surface Milling	TON	6,090.000	6,090.000
0008	211.0101	Prepare Foundation for Asphaltic Paving (project) 01. 3180-00-78	EACH	1.000	1.000
0010	211.0400	Prepare Foundation for Asphaltic Shoulders	STA	36.000	36.000
0012	213.0100	Finishing Roadway (project) 01. 3180-00-78	EACH	1.000	1.000
0014	305.0110	Base Aggregate Dense 3/4-Inch	TON	410.000	410.000
0016	455.0605	Tack Coat	GAL	4,595.000	4,595.000
0018	460.2000	Incentive Density HMA Pavement	DOL	7,442.000	7,442.000
0020	460.5223	HMA Pavement 3 LT 58-28 S	TON	1,510.000	1,510.000
0022	460.5424	HMA Pavement 4 LT 58-28 H	TON	4,800.000	4,800.000
0024	460.6223	HMA Pavement 3 MT 58-28 S	TON	3,750.000	3,750.000
0026	460.6225	HMA Pavement 5 MT 58-28 S	TON	249.000	249.000
0028	460.6424	HMA Pavement 4 MT 58-28 H	TON	1,140.000	1,140.000
0030	460.6425	HMA Pavement 5 MT 58-28 H	TON	208.000	208.000
0032	465.0510	Asphaltic Rumble Strips, Shoulder Divided Roadway	LF	12,066.000	12,066.000
0034	614.0397	Guardrail Mow Strip Emulsified Asphalt	SY	2,095.000	2,095.000
0036	619.1000	Mobilization	EACH	1.000	1.000
0038	628.1905	Mobilizations Erosion Control	EACH	4.000	4.000
0040	628.1910	Mobilizations Emergency Erosion Control	EACH	2.000	2.000
0042	628.7015	Inlet Protection Type C	EACH	61.000	61.000
0044	628.7020	Inlet Protection Type D	EACH	31.000	31.000
0046	628.7570	Rock Bags	EACH	7.000	7.000
0048	634.0618	Posts Wood 4x6-Inch X 18-FT	EACH	5.000	5.000
0050	634.0814	Posts Tubular Steel 2x2-Inch X 14-FT	EACH	2.000	2.000
0052	637.2210	Signs Type II Reflective H	SF	30.000	30.000
0054	637.2230	Signs Type II Reflective F	SF	30.000	30.000
0056	638.2102	Moving Signs Type II	EACH	5.000	5.000
0058	638.2602	Removing Signs Type II	EACH	5.000	5.000
0060	638.3000	Removing Small Sign Supports	EACH	5.000	5.000
0062	642.5001	Field Office Type B	EACH	1.000	1.000
0064	643.0300	Traffic Control Drums	DAY	5,922.000	5,922.000
0066	643.0420	Traffic Control Barricades Type III	DAY	1,048.000	1,048.000
0068	643.0705	Traffic Control Warning Lights Type A	DAY	1,472.000	1,472.000
0070	643.0715	Traffic Control Warning Lights Type C	DAY	1,528.000	1,528.000
0072	643.0800	Traffic Control Arrow Boards	DAY	20.000	20.000
0074	643.0900	Traffic Control Signs	DAY	10,397.000	10,397.000
0076	643.0910	Traffic Control Covering Signs Type I	EACH	40.000	40.000
0078	643.0920	Traffic Control Covering Signs Type II	EACH	450.000	450.000
0080	643.1050	Traffic Control Signs PCMS	DAY	49.000	49.000
0082	643.3165	Temporary Marking Line Paint 6-Inch	LF	861.000	861.000
0084	643.5000	Traffic Control	EACH	1.000	1.000
0086	646.2020	Marking Line Epoxy 6-Inch	LF	1,058.000	1,058.000
0088	646.2040	Marking Line Grooved Wet Ref Epoxy 6-Inch	LF	36,345.000	36,345.000
0090	646.2050	Marking Line Grooved Permanent Tape 6-Inch	LF	727.000	727.000
0092	646.4050	Marking Line Grooved Permanent Tape 10-Inch	LF	8,107.000	8,107.000
0094	646.5020	Marking Arrow Epoxy	EACH	24.000	24.000
0096	646.5120	Marking Word Epoxy	EACH	11.000	11.000
0098	646.6120	Marking Stop Line Epoxy 18-Inch	LF	200.000	200.000

Estimate Of Quantities

3180-00-78

Line	Item	Item Description	Unit	Total	Qty
0100	646.7120	Marking Diagonal Epoxy 12-Inch	LF	622.000	622.000
0102	646.7220	Marking Chevron Epoxy 24-Inch	LF	333.000	333.000
0104	646.8120	Marking Curb Epoxy	LF	10.000	10.000
0106	646.8220	Marking Island Nose Epoxy	EACH	7.000	7.000
0108	SPV.0060	Special 01. Vegetation Removal Project 3180-00-78	EACH	1.000	1.000

3

REMOVAL ITEMS

STATION	TO	STATION	LOCATION	204.0110 REMOVING ASPHALTIC SURFACE SY	204.0115 REMOVING ASPHALTIC SURFACE BUTT JOINTS SY	204.0125 REMOVING ASPHALTIC SURFACE MILLING TON
10+00	-	50+00	CTH P NE RAMPS	5890	41	-
40+25	-	49+75	CTH P SW RAMPS	4954	47	-
50+00	-	60+00	STH 142 NE RAMP	-	49	513
39+00	-	50+00	STH 142 SW RAMP	-	50	536
50+00	-	58+00	CTH A NW RAMP	-	52	413
71+00	-	80+97	CTH A SE RAMP	-	48	520
180+00	-	189+00	MILWAUKEE AVE SB	-	8	214
180+00	-	189+00	MILWAUKEE AVE NB	-	8	201
189+00	-	203+90	NB MILWAUKEE AVE TO SB STH 36 RAMP	-	5	575
208+00	-	209+00	NB RAMP AT BRIDGE	-	15	-
189+00	-	207+00	SB RAMP TO MILWAUKEE AVE	-	6	2400
189+00	-	215+12	NB MILWAUKE AVE TO NB STH 36 RAMP	-	6	718
			TOTAL	10,900	340	6,090

3

BASE AGGREGATE

STATION	TO	STATION	LOCATION	305.0110 BASE AGGREGATE DENSE 3/4-INCH TON
180+00	-	189+00	MILWAUKEE AVE SB	25
180+00	-	189+00	MILWAUKEE AVE NB	20
189+00	-	203+90	NB MILWAUKEE AVE TO SB STH 36 RAMP	30
189+00	-	207+00	SB RAMP TO MILWAUKEE AVE	145
189+00	-	215+12	NB MILWAUKE AVE TO NB STH 36 RAMP	183
	-		STH 11/STH 36 RAMPS	-
			TOTAL	410

PREPARE FOUNDATION FOR ASPHALTIC SHOULDERS FOR SB RAMP TO MILWAUKEE AVE

CATEGORY	STATION	TO	STATION	LOCATION	211.0400 PREPARE FOUNDATION FOR ASPHALTIC SHOULDERS STA
0010	183+66	-	192+00	LT	9
0010	192+00	-	197+00	LT	5
0010	197+00	-	201+50	LT	5
0010	197+00	-	201+50	RT	5
0010	201+50	-	204+00	LT	2
0010	201+50	-	204+00	RT	2
0010	204+00	-	207+50	LT	4
0010	204+00	-	207+50	RT	4
				TOTAL	36

3

ASPHALTIC PAVEMENT

STATION	TO	STATION	LOCATION	211.0101.01 PREPARE FOUNDATION FOR ASPHALTIC PAVING (PROJECT) (01. 3180-00-78) EACH	455.0605 TACK COAT GAL	460.2000 INCENTIVE DENSITY HMA PAVEMENT DOL	460.5223 HMA PAVEMENT 3 LT 58-28 S TON	460.5424 HMA PAVEMENT 4 LT 58-28 H TON	460.6223 HMA PAVEMENT 3 MT 58-28 S TON	460.6225 HMA PAVEMENT 5 MT 58-28 S TON	460.6424 HMA PAVEMENT 4 MT 58-28 H TON	460.6425 HMA PAVEMENT 5 MT 58-28 H TON	628.7570 ROCK BAGS EACH
10+00	-	50+00	CTH P NE RAMPS	-	825	1696	-	-	2032	-	618	-	2
40+25	-	49+75	CTH P SW RAMPS	-	694	1427	-	-	1709	-	520	-	4
50+00	-	60+00	STH 142 NE RAMP	-	342	375	-	586	-	-	-	-	-
39+00	-	50+00	STH 142 SW RAMP	-	357	392	-	612	-	-	-	-	-
50+00	-	58+00	CTH A NW RAMP	-	275	302	-	472	-	-	-	-	-
71+00	-	80+97	CTH A SE RAMP	-	346	380	-	594	-	-	-	-	-
180+00	-	189+00	MILWAUKEE AVE SB	-	100	150	-	-	-	128	-	107	-
180+00	-	189+00	MILWAUKEE AVE NB	-	94	141	-	-	-	121	-	100	-
189+00	-	203+90	NB MILWAUKEE AVE TO SB STH 36 RAMP	-	383	421	-	657	-	-	-	-	-
208+00	-	209+00	NB RAMP AT BRIDGE	-	478	-	-	-	-	-	-	-	-
189+00	-	207+00	SB RAMP TO MILWAUKEE AVE	-	700	1632	1500	1050	-	-	-	-	1
189+00	-	215+12	NB MILWAUKE AVE TO NB STH 36 RAMP	-	-	525	-	820	-	-	-	-	-
	-		STH 11/STH 36 RAMPS	1	-	-	-	-	-	-	-	-	-
			TOTAL	1	4,595	7,442	1,510	4,800	3,750	249	1,140	208	7

3

3

ROADWAY ITEMS

STATION	TO	STATION	LOCATION	465.0510 ASPHALTIC RUMBLE STRIPS, SHOULDER DIVIDED ROADWAY LF
180+00	-	189+00	MILWAUKEE AVE SB	1583
180+00	-	189+00	MILWAUKEE AVE NB	1578
189+00	-	203+90	NB MILWAUKEE AVE TO SB STH 36 RAMP	2288
208+00	-	209+00	NB RAMP AT BRIDGE	-
189+00	-	207+00	SB RAMP TO MILWAUKEE AVE	3665
189+00	-	215+12	NB MILWAUKE AVE TO NB STH 36 RAMP	2952
			STH 11/STH 36 RAMPS	-
			TOTAL	12,066

3

TRAFFIC CONTROL

CATEGORY	STATION	TO	STATION	LOCATION	643.0300 TRAFFIC CONTROL DRUMS DAY	643.0420 TRAFFIC CONTROL BARRICADES TYPE III DAY	643.0705 TRAFFIC CONTROL WARNING LIGHTS TYPE A DAY	643.0715 TRAFFIC CONTROL WARNING LIGHTS TYPE C DAY	643.0800 TRAFFIC CONTROL ARROW BOARDS DAY	643.0900 TRAFFIC CONTROL SIGNS DAY	643.0910 TRAFFIC CONTROL COVERING SIGNS TYPE I EACH	643.0920 TRAFFIC CONTROL COVERING SIGNS TYPE II EACH	643.1050 TRAFFIC CONTROL SIGNS PCMS DAY	643.3165 TEMPORARY MARKING LINE PAINT 6-INCH LF	643.5000 TRAFFIC CONTROL EACH
0010	10+00	-	50+00	DETOUR STAGE 1 (SB STH 36 RAMP TO MILWAUKEE AVE SB CLOSURE)	-	-	-	-	-	900	40	40	-	-	
0010	40+25	-	49+75	DETOUR STAGE 1 (NB MILWAUKEE AVE CLOSURE)	100	-	-	-	-	820	-	40	7	-	
0010	50+00	-	60+00	DETOUR STAGE 3A TO STH 142 (STH 142 NE RAMPS CLOUSURE)	-	-	-	-	-	621	-	27	-	-	
0010	39+00	-	50+00	DETOUR STAGE 3A TO STH 36 SB (STH 142 NE RAMPS CLOSURE)	-	-	-	-	-	2484	-	36	-	-	
0010	50+00	-	58+00	DETOUR STAGE 3B TO STH 142 (STH 142 SW RAMPS CLOSURE)	-	-	-	-	-	864	-	27	-	-	
0010	71+00	-	80+97	DETOURE STAGE 3B TO STH 36 NB (STH 142 SW RAMPS CLOSURE)	-	-	-	-	-	1836	-	36	-	-	
0010	180+00	-	189+00	TRAFFIC CONTROL STAGE 1 (MILWAUKEE AVE)	2100	380	640	660	20	600	-	100	-	861	
0010	180+00	-	189+00	TRAFFIC CONTROL STAGE 1 (SB STH 36 RAMP TO MILWAUKEE AVE SB)	1000	120	160	-	-	240	-	-	7	-	
0010	189+00	-	203+90	TRAFFIC CONTROL CTH A RAMPS	702	144	180	252	-	522	-	144	7	-	
0010	208+00	-	209+00	TRAFFIC CONTROL STH 142 NB RAMP	360	72	90	126	-	261	-	-	7	-	
0010	189+00	-	207+00	TRAFFIC CONTROL STH 142 SW RAMP	360	72	90	126	-	261	-	-	7	-	
0010	189+00	-	215+12	TRAFFIC CONTROL CTH P NE RAMP	650	130	156	182	-	494	-	-	7	-	
0010		-		TRAFFIC CONTROL CTH P SW RAMP	650	130	156	182	-	494	-	-	7	-	1
				TOTAL	5,922	1,048	1,472	1,528	20	10,397	40	450	49	861	1

3

3

3

BEAMGUARD

STATION	TO	STATION	LOCATION	614.0397 GUARDRAIL MOW STRIP EMULSIFIED ASPHALT SY
190+15	-	203+16	NB MILWAUKEE AVE TO SB STH 36 RAMP	578
198+94		203+43	NB MILWAUKEE AVE TO SB STH 36 RAMP	200
192+95	-	203+92	SB RAMP TO MILWAUKEE AVE	490
189+87	-	202+64	NB MILWAUKE AVE TO NB STH 36 RAMP	568
209+55	-	211+14	NB MILWAUKE AVE TO NB STH 36 RAMP	71
200+92	-	202+62	NB MILWAUKE AVE TO NB STH 36 RAMP	76
208+42	-	210+96	NB MILWAUKE AVE TO NB STH 36 RAMP	113
	-		STH 11/STH 36 RAMPS	-
			TOTAL	2,095

3

3

ENVIRONMENTAL ITEMS

LOCATION	628.1905 MOBILIZATIONS EROSION CONTROL EACH	628.1910 MOBILIZATIONS EMERGENCY EROSION CONTROL EACH	628.7015 INLET PROTECTION TYPE C EACH	628.7020 INLET PROTECTION TYPE D EACH
CTH P NE RAMPS	1	-	16	2
CTH P SW RAMPS	-	-	5	3
STH 142 NE RAMP	1	-	11	5
STH 142 SW RAMP	-	-	12	5
CTH A NW RAMP	1	-	7	6
CTH A SE RAMP	-	-	9	7
MILWAUKEE AVE SB	-	-	-	-
MILWAUKEE AVE NB	-	-	-	-
NB MILWAUKEE AVE TO SB STH 36 RAMP	1	-	-	1
NB RAMP AT BRIDGE	-	-	-	-
SB RAMP TO MILWAUKEE AVE	-	-	-	-
NB MILWAUKE AVE TO NB STH 36 RAMP	-	-	1	2
STH 11/STH 36 RAMPS	-	2	-	-
TOTAL	4	2	61	31

3

PAVEMENT MARKING

LOCATION	646.2020 MARKING LINE EPOXY 6-INCH LF	646.2020 MARKING LINE EPOXY 6-INCH LF	646.2040 MARKING LINE GROOVED WET REF EPOXY 6-INCH WHITE LF	646.2040 MARKING LINE GROOVED WET REF EPOXY 6-INCH YELLOW	646.2050 MARKING LINE GROOVED PERMANENT TAPE 6-INCH WHITE LF	646.4050 MARKING LINE GROOVED PERMANENT TAPE 10-INCH WHITE LF	646.5020 MARKING ARROW EPOXY (TYPE 2) EACH	646.5020 MARKING ARROW EPOXY (TYPE 3) EACH	646.5120 MARKING WORD EPOXY EACH	646.6120 MARKING STOP LINE EPOXY 18-INCH WHITE LF	646.7120 MARKING DIAGONAL EPOXY 12-INCH WHITE LF	646.7120 MARKING DIAGONAL EPOXY 12-INCH YELLOW LF	646.7220 MARKING CHEVRON EPOXY 24-INCH LF	646.8120 MARKING CURB EPOXY LF	646.8220 MARKING ISLAND NOSE EPOXY EACH
CTH P NE RAMPS	-	-	1550	1953	-	1265	2	-	2	11	87	-	-	-	1
CTH P SW RAMPS	-	-	1673	1836	-	550	4	-	2	26	93	-	-	10	1
STH 142 NE RAMP	-	-	1665	1896	-	530	4	-	2	42	82	19	-	-	1
STH 142 SW RAMP	-	-	1721	1960	-	535	4	-	2	42	95	20	-	-	1
CTH A NW RAMP	-	-	1310	1456	-	555	4	-	2	31	83	14	-	-	1
CTH A SE RAMP	-	-	1763	1916	-	555	2	2	1	47	111	18	-	-	1
MILWAUKEE AVE SB	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MILWAUKEE AVE NB	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
NB MILWAUKEE AVE TO SB STH 36 RAMP	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
NB RAMP AT BRIDGE	532	526	-	-	-	-	-	-	-	-	-	-	-	-	-
SB RAMP TO MILWAUKEE AVE	-	-	2580	4281	620	554	-	-	-	-	-	-	95	-	-
NB MILWAUKE AVE TO NB STH 36 RAMP	-	-	4568	4216	107	3563	2	-	-	-	-	-	238	-	1
SUBTOTAL	532	526	16830	19514			22	2			551	71			
TOTAL	1,058		36,345		727	8,107	24		11	200	622		333	10	7

3

3

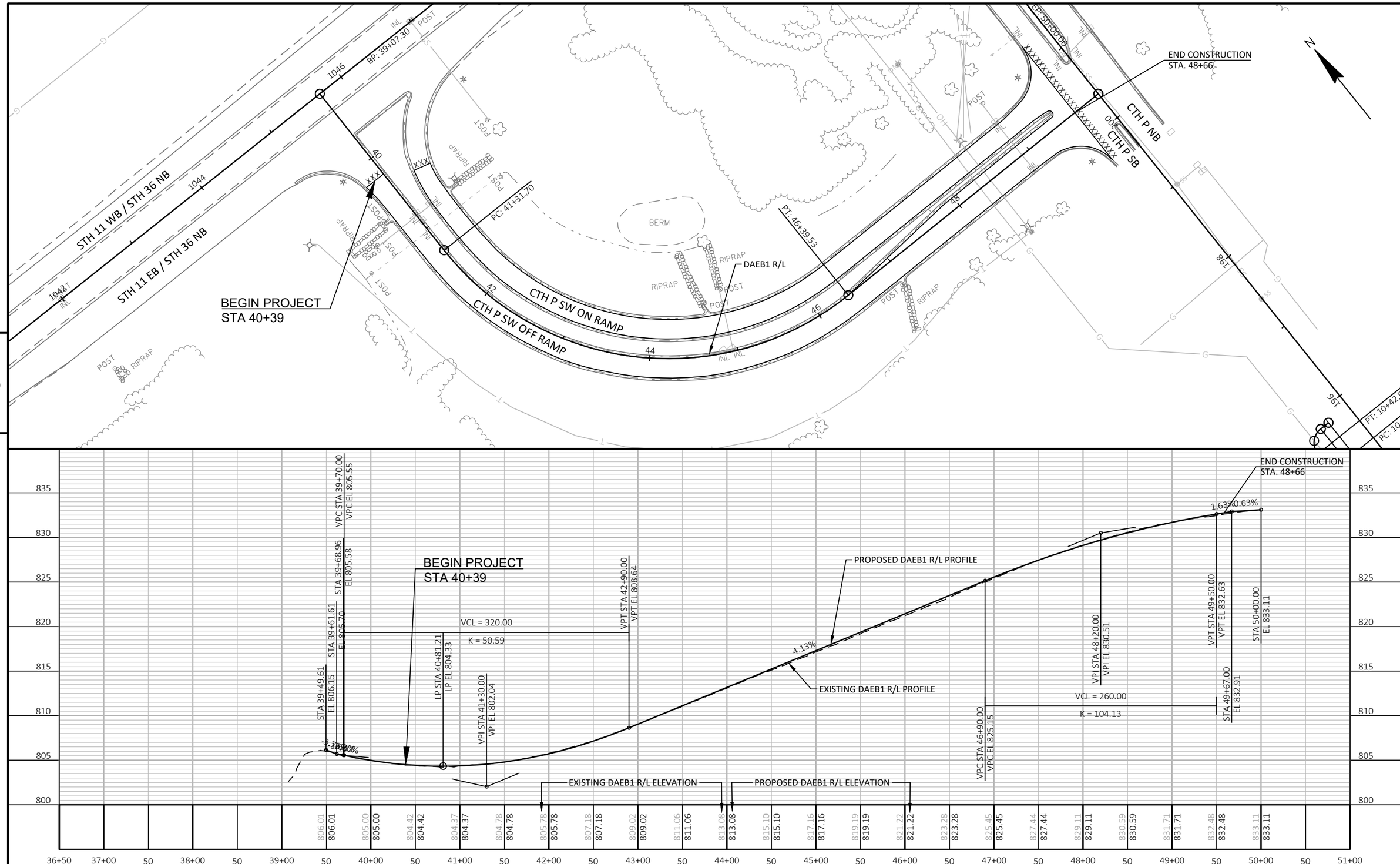
PROJECT ITEMS

LOCATION	213.0100.01 FINISHING ROADWAY (PROJECT) (01. 3180-00-78) EACH	619.1000 MOBILIZATION EACH	642.5001 FIELD OFFICE TYPE B EACH	SPV.0060.01 VEGETATION REMOVAL (PROJECT) (01. 3180-00-78) EACH
STH 11/STH 36 RAMPS	1	1	1	1
TOTAL	1	1	1	1

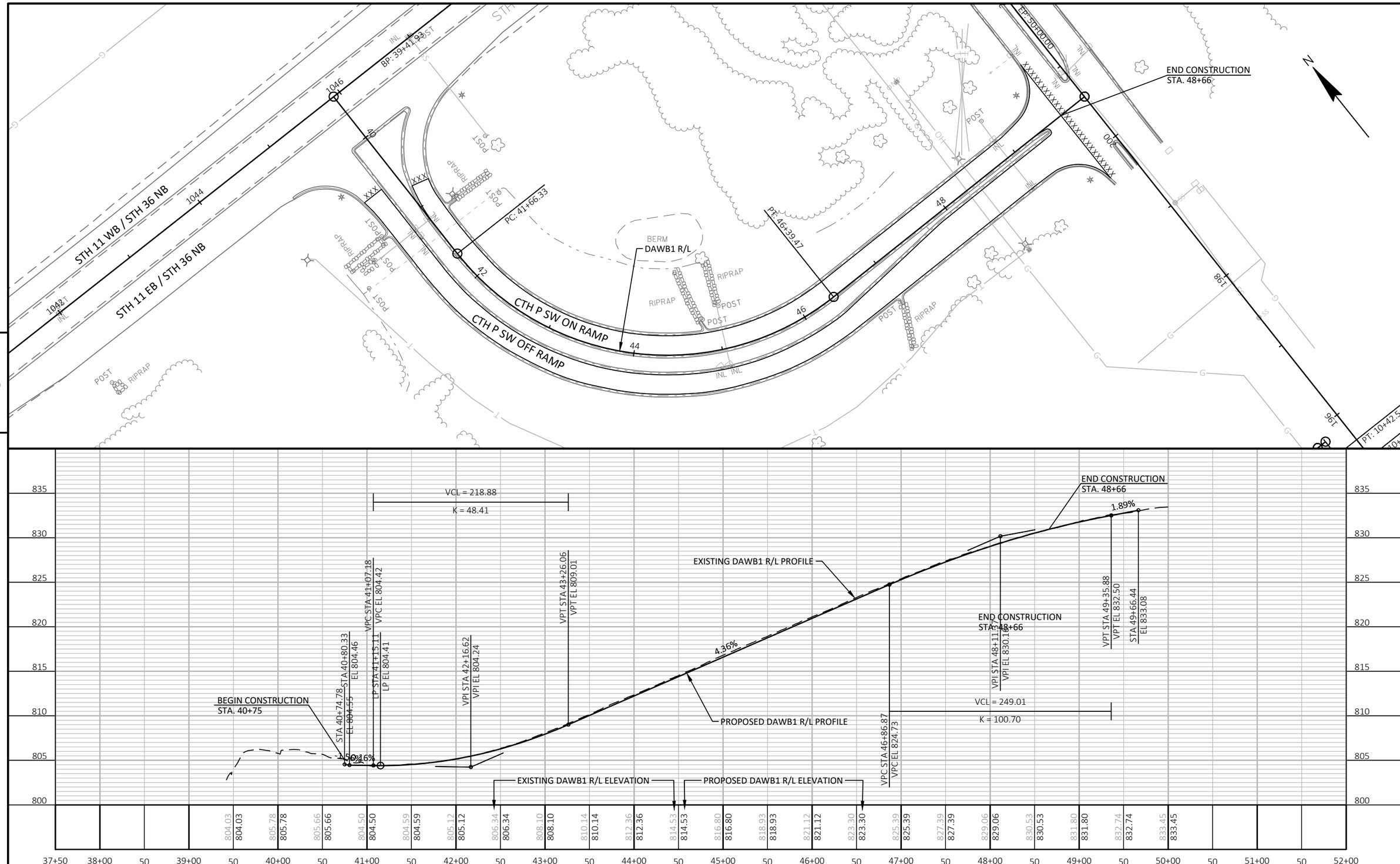
TYPE II PERMANENT SIGNING 3180-00-78 STH 11 36 ramps

SIGN NO.		SIGN MESSAGE	SIGN SIZE W x H [IN.] x [IN.]	637.2210 SIGNS TYPE II REFLECTIVE H [SF]	637.2230 SIGNS TYPE II RELFECTIVE F [SF]	638.2102 MOVING SIGNS TYPE II [EA]	638.2602 REMOVING SIGNS TYPE II (EA)	638.3000 REM SMALL SIGN SUP [EA]	634.0618 POSTS WOOD 4" X 6" X 18' [EA]	634.0814 POSTS TUBULAR STEEL 2 X 2 INCH X 14 FT (EA)	MOUNT ON SAME POST AS SIGN #	REMARKS / NEW SIGN LOCATION
UNDISTRIBUTED				30.000	30.000	5	5	5	5	2		
TOTAL				30.000	30.000	5	5	5	5	2	--	--

SHEET: 1 OF 1

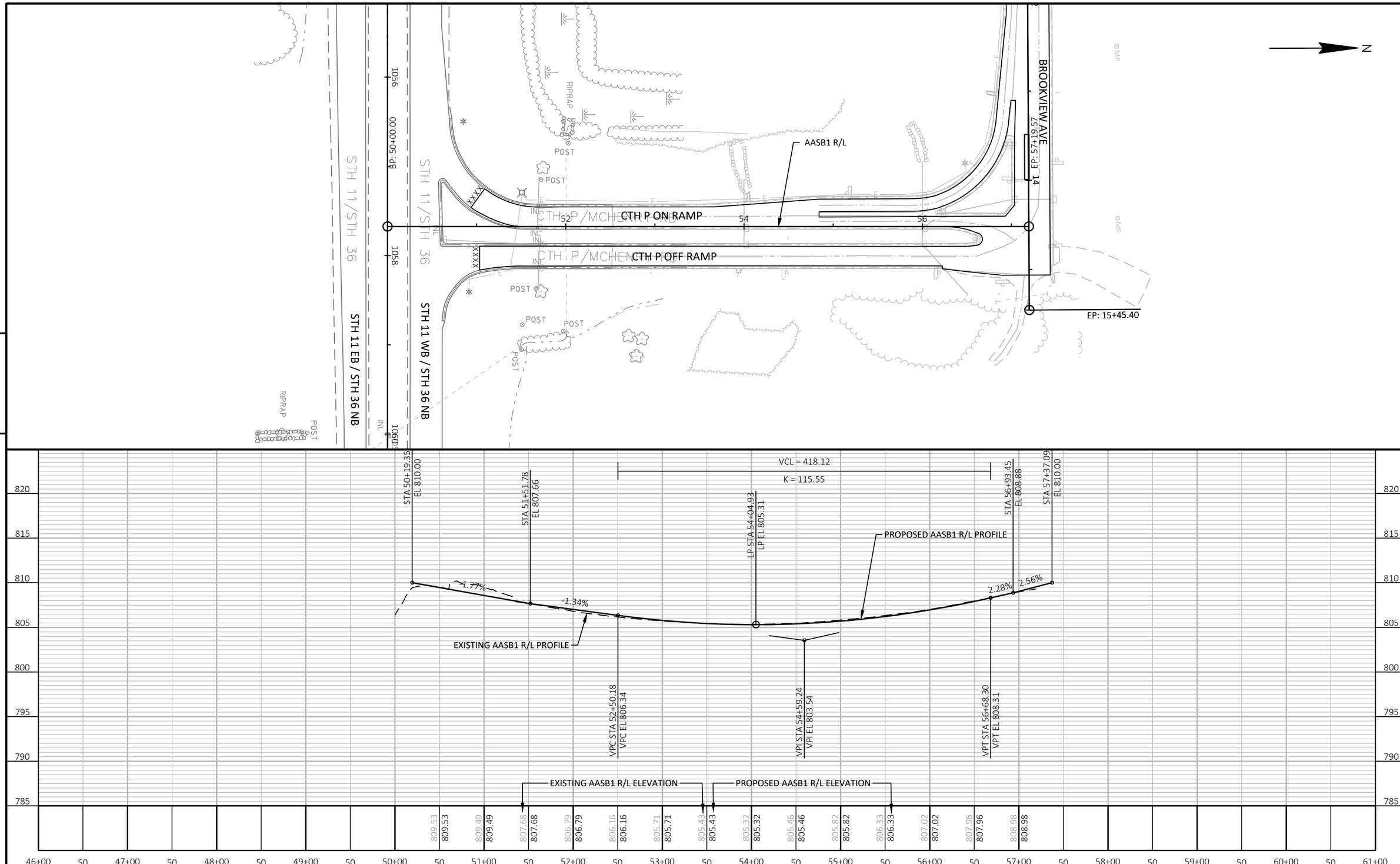


PROJECT NO: 3180-00-78	HWY: VAR HWY	COUNTY: RACINE	PLAN AND PROFILE: CTH P SW OFF RAMP DAEB1 REFERENCE LINE	SHEET 97	E



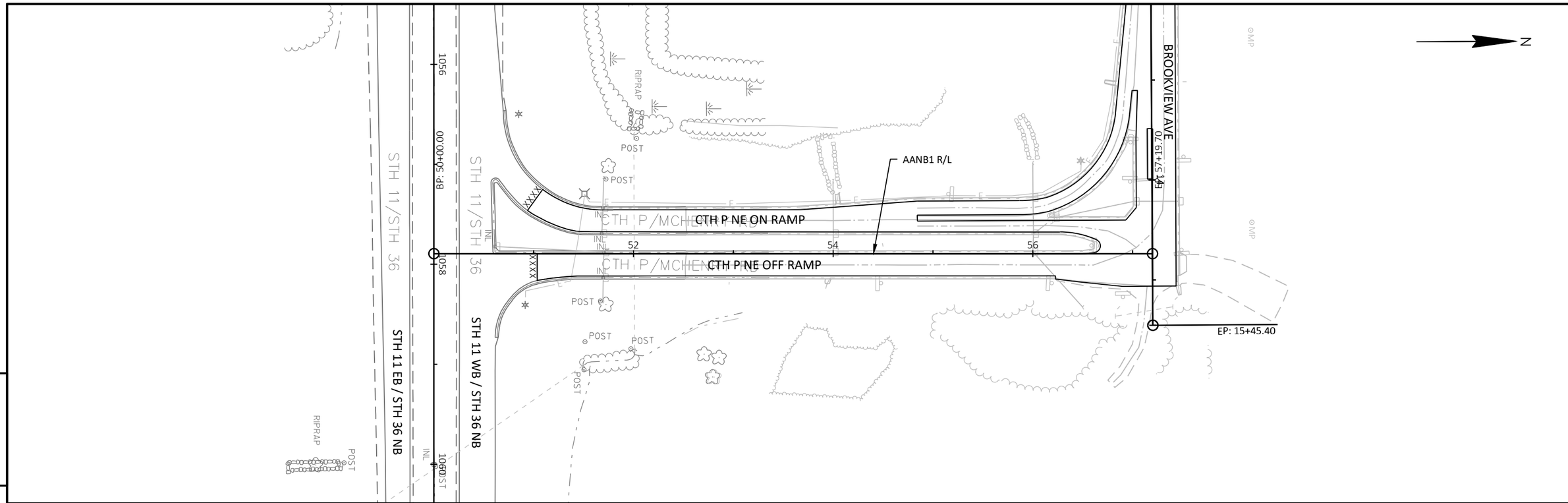
PROJECT NO: 3180-00-78	HWY: VAR HWY	COUNTY: RACINE	PLAN AND PROFILE: CTH P SW ON RAMP DAWB1 REFERENCE LINE	SHEET 98	E

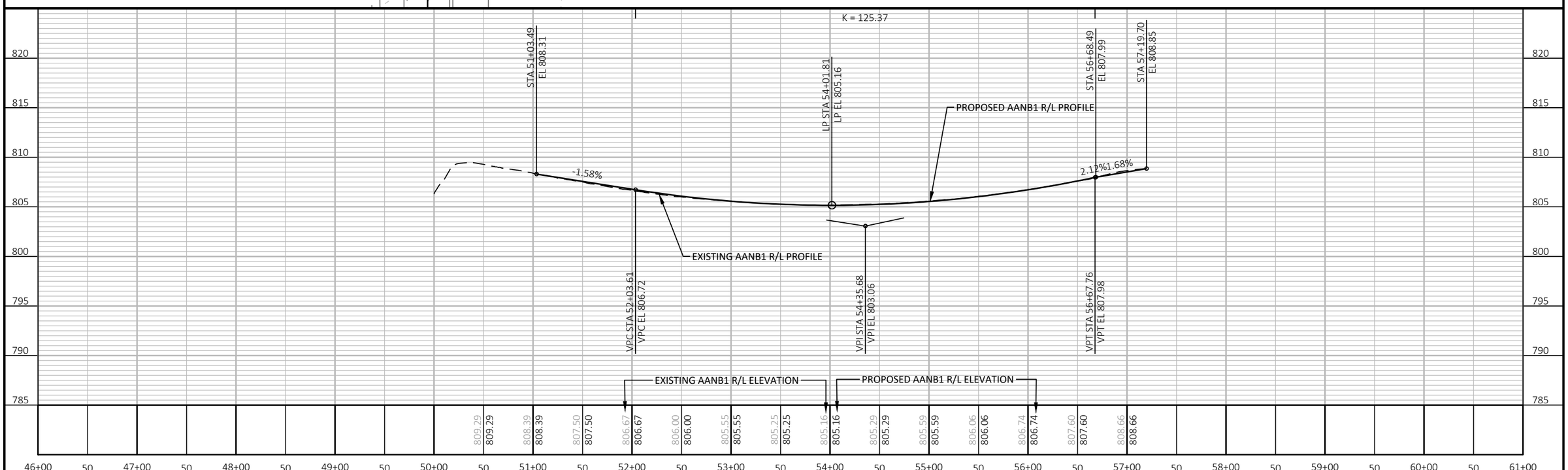
FILE NAME : N:\PDS\C3D\31800008\SHEETS\050102-PP.DWG
LAYOUT NAME - 050102-pp
PLOT DATE : 9/25/2024 9:42 AM
PLOT BY : HAYNES, RONNIE
PLOT NAME :
PLOT SCALE : 1 IN:100 FT



PROJECT NO: 3180-00-78	HWY: VAR HWY	COUNTY: RACINE	PLAN AND PROFILE: CTH P NE ON RAMP AASB1 REFERENCE LINE	SHEET 99	E

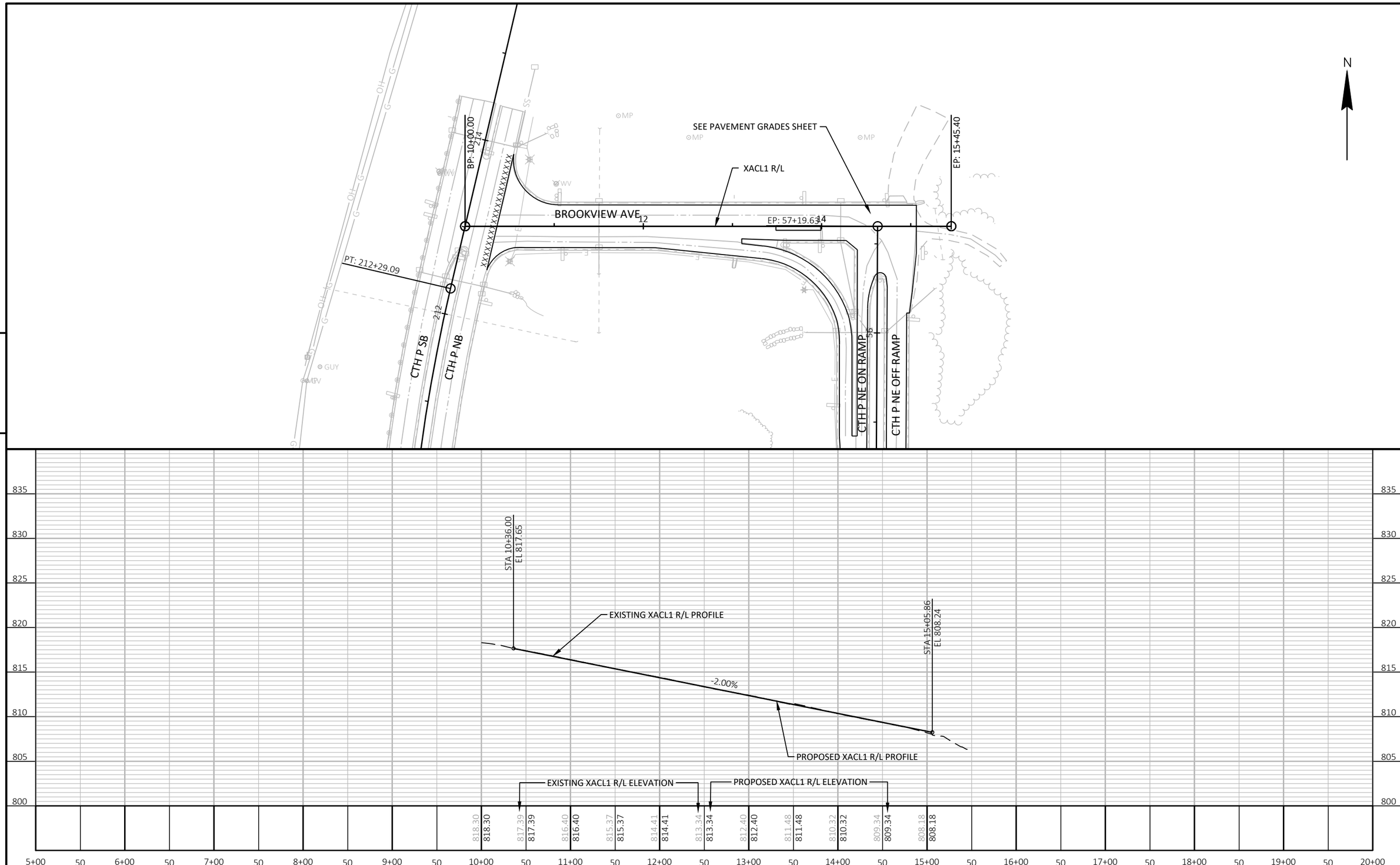
FILE NAME : N:\PDS\C3D\31800008\SHEETS\050103-PP.DWG
LAYOUT NAME - 050103-pp
PLOT DATE : 9/25/2024 9:42 AM
PLOT BY : HAYNES, RONNIE
PLOT NAME :
PLOT SCALE : 1 IN:100 FT
WISDOT/CADDS SHEET 44





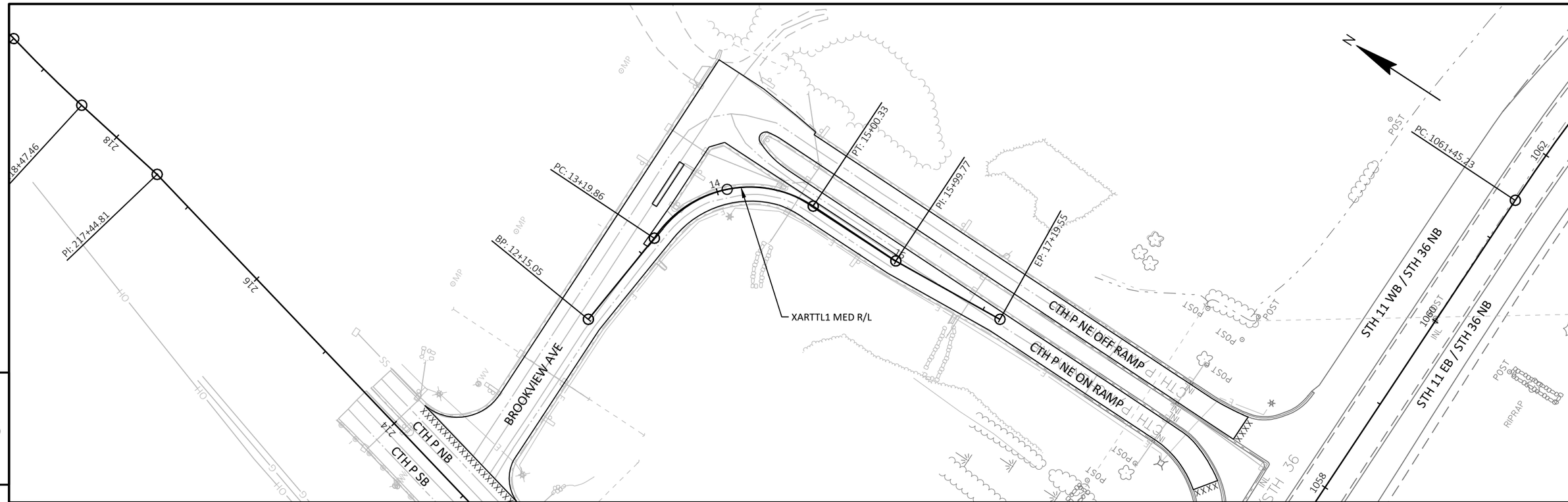
PROJECT NO: 3180-00-78	HWY: VAR HWY	COUNTY: RACINE	PLAN AND PROFILE: CTH P NE OFF RAMP AASBI REFERENCE LINE	SHEET 100	E

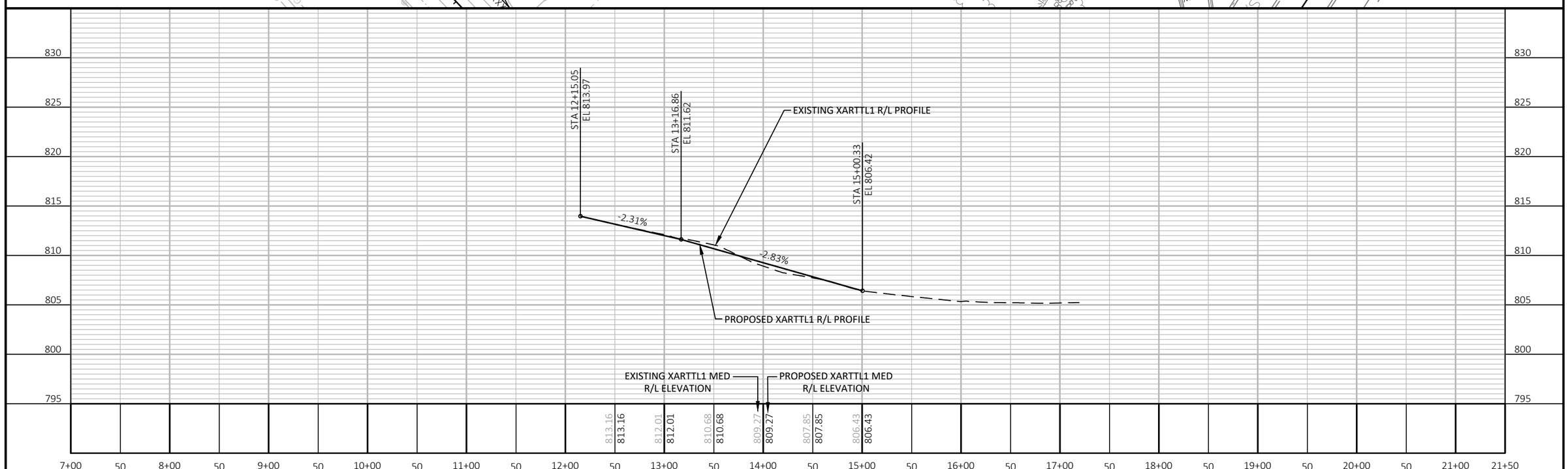
FILE NAME : N:\PDS\C3D\31800008\SHEETS\050104-PP.DWG
LAYOUT NAME - 050104-pp
PLOT DATE : 9/25/2024 9:43 AM
PLOT BY : HAYNES, RONNIE
PLOT NAME :
PLOT SCALE : 1 IN:100 FT



PROJECT NO: 3180-00-78	HWY: VAR HWY	COUNTY: RACINE	PLAN AND PROFILE: BROOKVIEW AVE XACL1 REFERENCE LINE	SHEET 101	E

FILE NAME : N:\PDS\C3D\31800008\SHEETS\050105-PP.DWG
LAYOUT NAME - 050105-pp
PLOT DATE : 9/25/2024 9:43 AM
PLOT BY : HAYNES, RONNIE
PLOT NAME :
PLOT SCALE : 1 IN:100 FT
WISDOT/CADDS SHEET 44



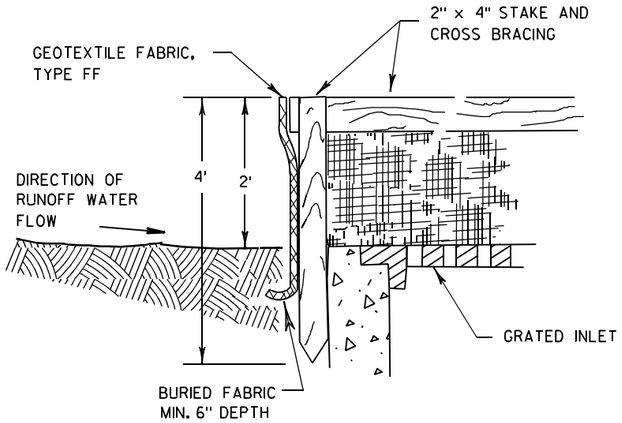


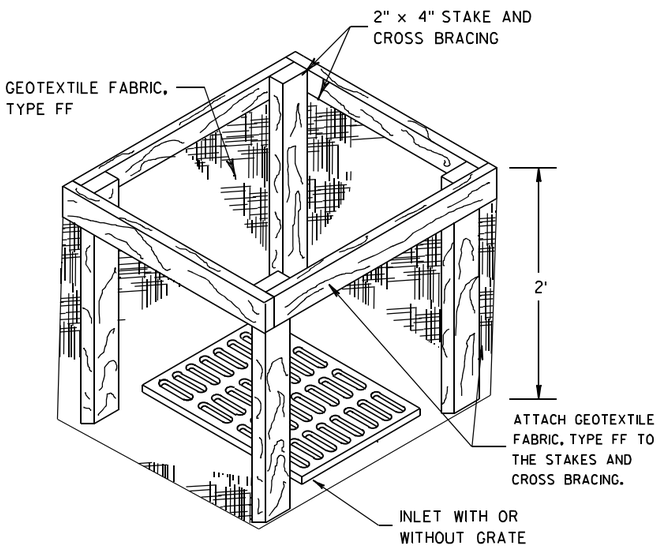
PROJECT NO: 3180-00-78	HWY: VAR HWY	COUNTY: RACINE	PLAN AND PROFILE: BROOKVIEW AVE MED XARTTL1 MED REFERENCE LINE	SHEET 102	E

Standard Detail Drawing List

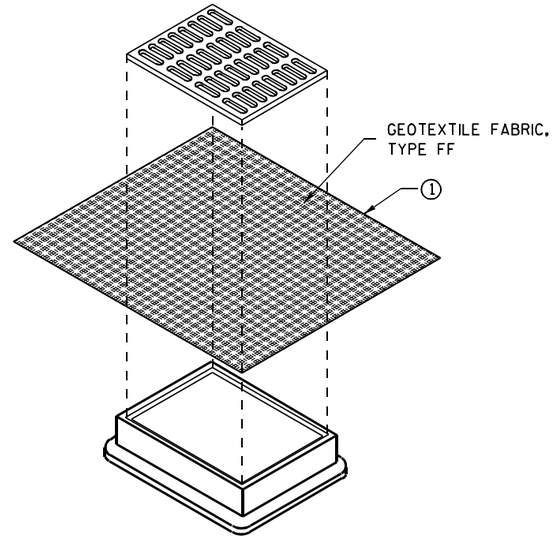
08E10-02	INLET PROTECTION TYPE A, B, C AND D
13A05-06A	SHOULDER RUMBLE STRIPS, DIVIDED ROADWAY
13A05-06B	SHOULDER RUMBLE STRIPS, DIVIDED ROADWAY
13A08-02	TRANSVERSE RUMBLE STRIPS, ASPHALTIC
13A10-03G	SHOULDER AND EDGE LINE RUMBLE STRIPS - CROSSINGS, INTERSECTIONS, BRIDGES, DRIVEWAYS
14B28-04A	GUARDRAIL MOW STRIP
14B29-01	SAFETY EDGE
15C02-09A	BARRICADES AND SIGNS FOR MAINLINE CLOSURES
15C02-09B	BARRICADES AND SIGNS FOR VARIOUS CLOSURES
15C02-09C	DETOUR SIGNING FOR MAINLINE CLOSURES
15C02-09D	ON RAMP LANE CLOSURE
15C02-09E	OFF RAMP LANE CLOSURE
15C02-09G	TRAFFIC CONTROL FOR ENTRANCE RAMP CLOSURE
15C02-09H	MODIFIED ROUTE ASSEMBLY FOR DETOUR SIGNING
15C07-15B	PAVEMENT MARKING WORDS
15C07-15C	PAVEMENT MARKING ARROWS
15C08-23A	PERMANENT LONGITUDINAL PAVEMENT MARKINGS
15C08-23D	PAVEMENT MARKING (TURN LANES)
15C11-10B	CHANNELIZING DEVICES DRUMS, CONES, BARRICADES AND VERTICAL PANELS
15C18-08B	MEDIAN ISLAND MARKING MEDIAN ISLAND NOSE
15C18-08C	MEDIAN PAVEMENT MARKINGS DOUBLE ARROW WARNING SIGN PLACEMENT
15C31-06A	PAVEMENT MARKING EXIT RAMP AND PARALLEL EXIT RAMP
15C31-06C	PAVEMENT MARKING ENTRANCE RAMP AND PARALLEL ENTRANCE RAMP
15C33-04	STOP LINE AND CROSSWALK PAVEMENT MARKING
15D16-06	TRAFFIC CONTROL, EXIT RAMP CLOSURE
15D20-07A	TRAFFIC CONTROL, SINGLE LANE CLOSURE, DIVIDED NON-FREEWAY/EXPRESSWAY
15D21-07A	TRAFFIC CONTROL, INTERSECTION WITHIN SINGLE LANE CLOSURE
15D21-07B	TRAFFIC CONTROL, INTERSECTION WITHIN SINGLE LANE CLOSURE

6



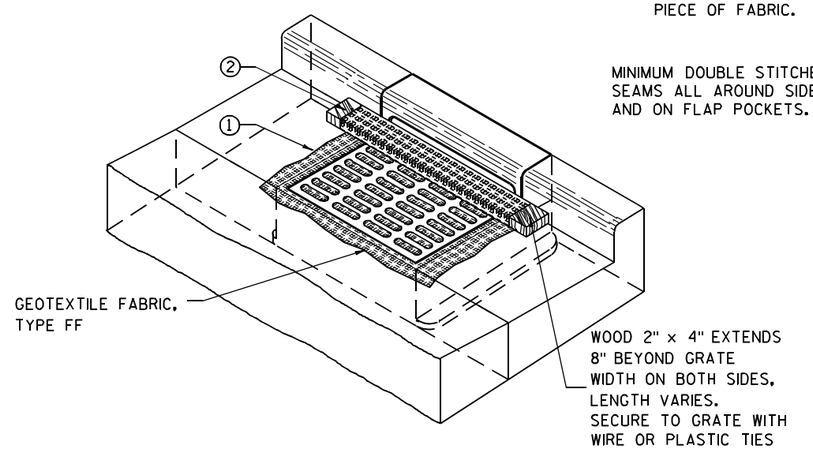


INLET PROTECTION, TYPE A

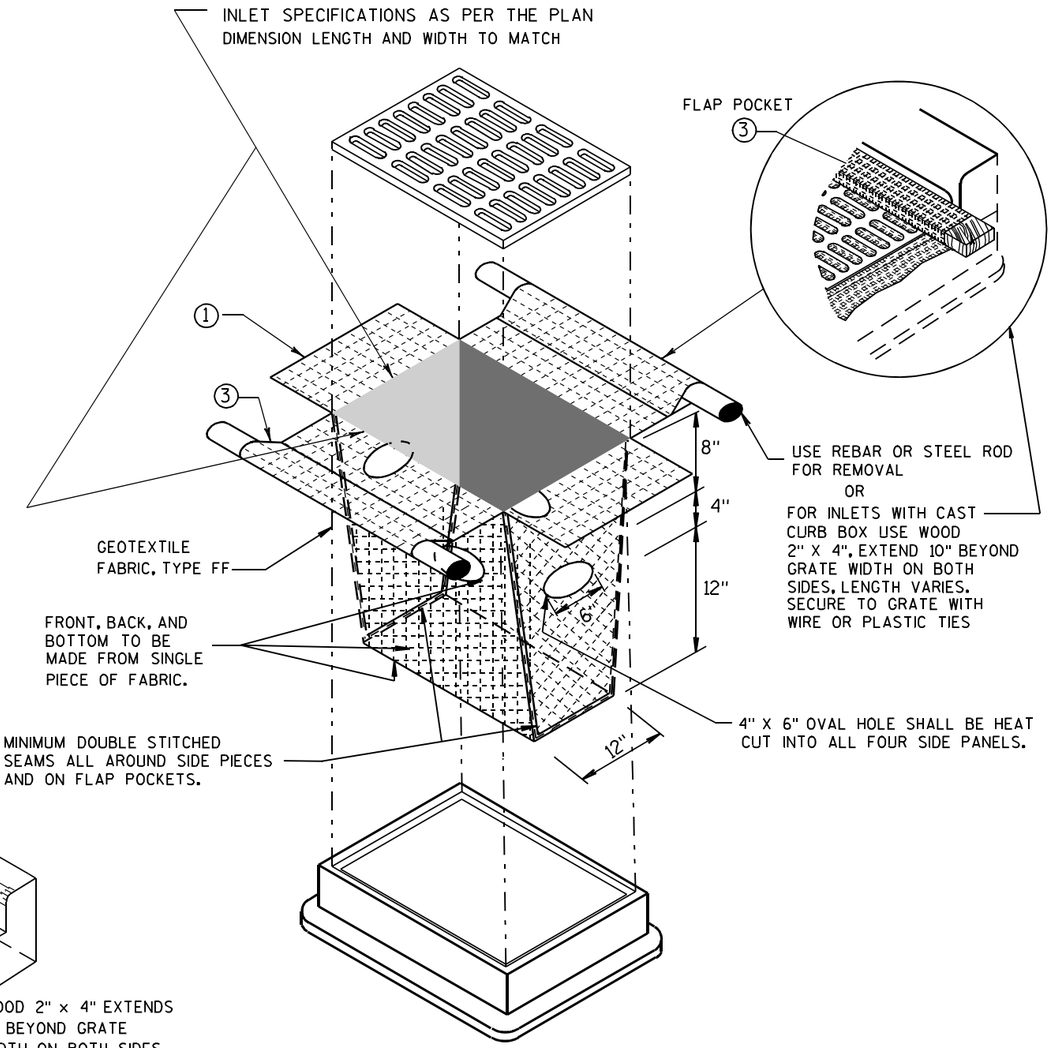


INLET PROTECTION, TYPE B
(WITHOUT CURB BOX)

(CAN BE INSTALLED IN ANY INLET WITHOUT A CURB BOX)



INLET PROTECTION, TYPE C (WITH CURB BOX)



INLET PROTECTION, TYPE D

(CAN BE INSTALLED IN ANY INLET TYPE WITH
OR WITHOUT A CURB BOX AS PER NOTE ②)

GENERAL NOTES

INLET PROTECTION DEVICES SHALL BE MAINTAINED OR REPLACED AT THE DIRECTION OF THE ENGINEER.

MANUFACTURED ALTERNATIVES APPROVED AND LISTED ON THE DEPARTMENT'S EROSION CONTROL PRODUCT ACCEPTABILITY LIST MAY BE SUBSTITUTED.

WHEN REMOVING OR MAINTAINING INLET PROTECTION, CARE SHALL BE TAKEN SO THAT THE SEDIMENT TRAPPED ON THE GEOTEXTILE FABRIC DOES NOT FALL INTO THE INLET. ANY MATERIAL FALLING INTO THE INLET SHALL BE REMOVED IMMEDIATELY.

① FINISHED SIZE, INCLUDING FLAP POCKETS WHERE REQUIRED, SHALL EXTEND A MINIMUM OF 10" AROUND THE PERIMETER TO FACILITATE MAINTENANCE OR REMOVAL.

② FOR INLET PROTECTION, TYPE C (WITH CURB BOX), AN ADDITIONAL 18" OF FABRIC IS WRAPPED AROUND THE WOOD AND SECURED WITH STAPLES. THE WOOD SHALL NOT BLOCK THE ENTIRE HEIGHT OF THE CURB BOX OPENING.

③ FLAP POCKETS SHALL BE LARGE ENOUGH TO ACCEPT WOOD 2X4.

INSTALLATION NOTES

TYPE B & C

TRIM EXCESS FABRIC IN THE FLOW LINE TO WITHIN 3" OF THE GRATE.

THE CONTRACTOR SHALL DEMONSTRATE A METHOD OF MAINTENANCE, USING A SEWN FLAP, HAND HOLDS OR OTHER METHOD TO PREVENT ACCUMULATED SEDIMENT FROM ENTERING THE INLET.

TYPE D

DO NOT INSTALL INLET PROTECTION TYPE D IN INLETS SHALLOWER THAN 30", MEASURED FROM THE BOTTOM OF THE INLET TO THE TOP OF THE GRATE.

TRIM EXCESS FABRIC IN THE FLOW LINE TO WITHIN 3" OF THE GRATE.

THE INSTALLED BAG SHALL HAVE A MINIMUM SIDE CLEARANCE, BETWEEN THE INLET WALLS AND THE BAG, MEASURED AT THE BOTTOM OF THE OVERFLOW HOLES, OF 3". WHERE NECESSARY THE CONTRACTOR SHALL CINCH THE BAG, USING PLASTIC ZIP TIES, TO ACHIEVE THE 3" CLEARANCE. THE TIES SHALL BE PLACED AT A MAXIMUM OF 4" FROM THE BOTTOM OF THE BAG.

INLET PROTECTION
TYPE A, B, C, AND D

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
10/16/02 — DATE
/S/ Beth Cannestra
CHIEF ROADWAY DEVELOPMENT ENGINEER
FHWA

6

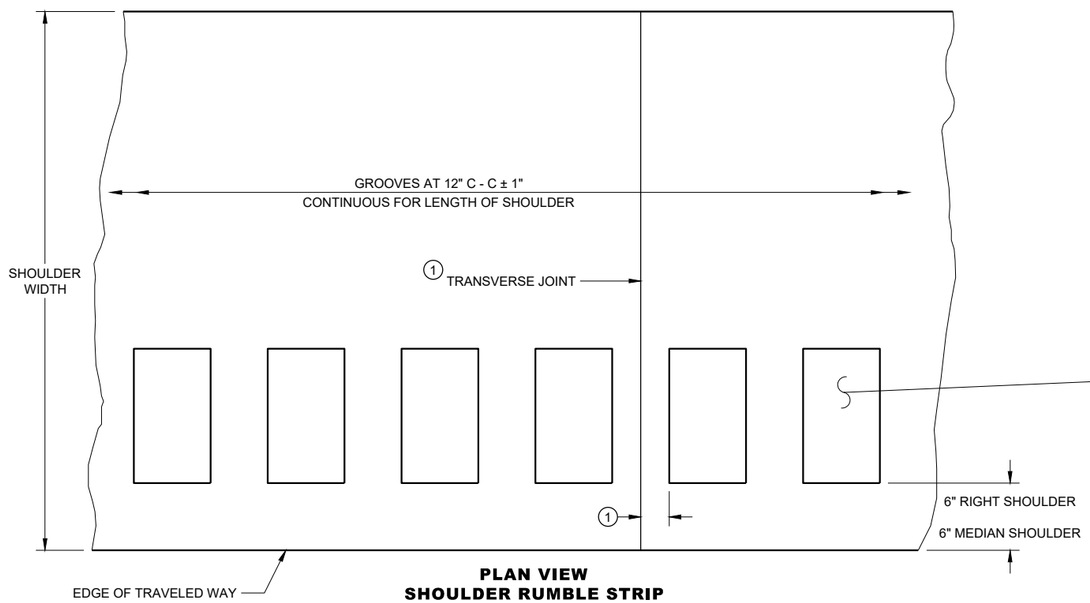
S.D.D. 8 E 10-2

GENERAL NOTES

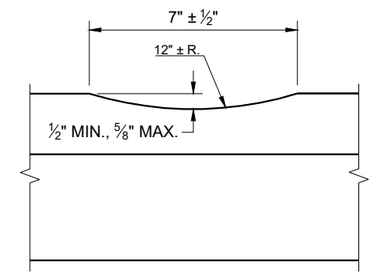
SDD 13A5, SHEET "b" SHOWS THE LOCATION OF THE RUMBLE STRIPS AT RAMP AND GORE LOCATIONS.

RUMBLE STRIPS ON EXPRESSWAYS:
DO NOT INSTALL SHOULDER RUMBLE STRIPS ACROSS SIDE ROAD INTERSECTIONS, COMMERCIAL AND PRIVATE DRIVEWAYS, ADJACENT TO RIGHT TURN LANES, LEFT TURN LANES, TURN LANE TAPERS, 25' IN ADVANCE OF BRIDGE DECKS, 25' IN ADVANCE OF BRIDGE APPROACHES, OR 100 FEET IN ADVANCE OF RAILROAD CROSSINGS.

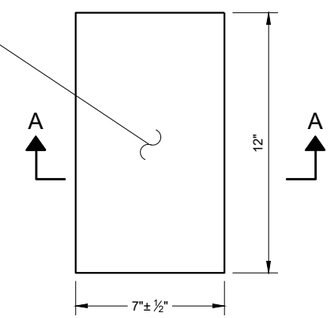
(1) CONCRETE PAVEMENT - RUMBLE STRIPS SHALL BE A MINIMUM OF 6 INCHES AWAY FROM TRANSVERSE JOINTS.



PLAN VIEW
SHOULDER RUMBLE STRIP

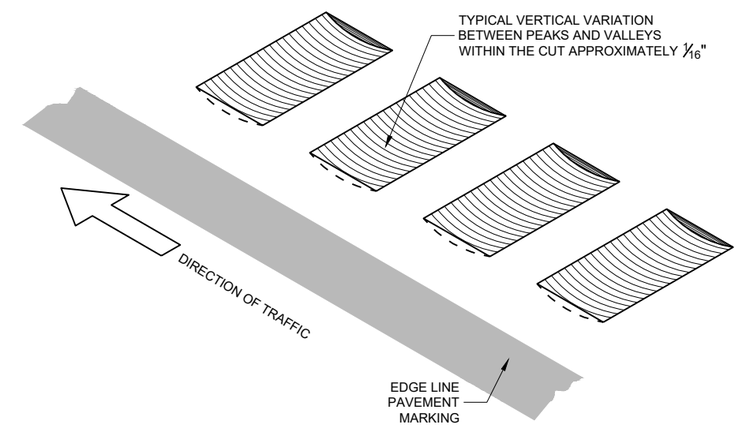


SECTION A - A

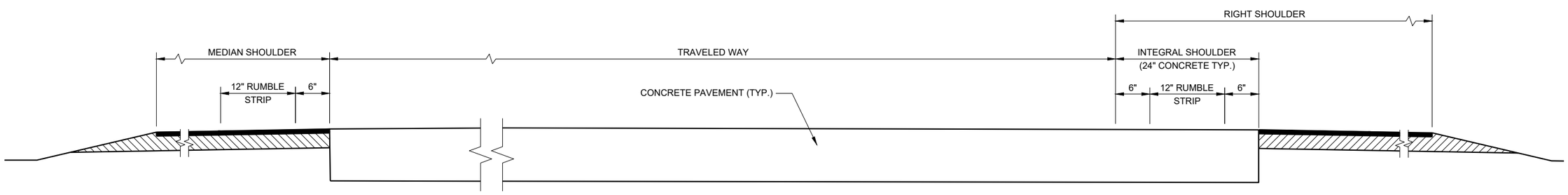


PLAN VIEW
(SINGLE GROOVE)

PLACEMENT DETAIL FOR RUMBLE STRIP



ISOMETRIC



SECTION VIEW

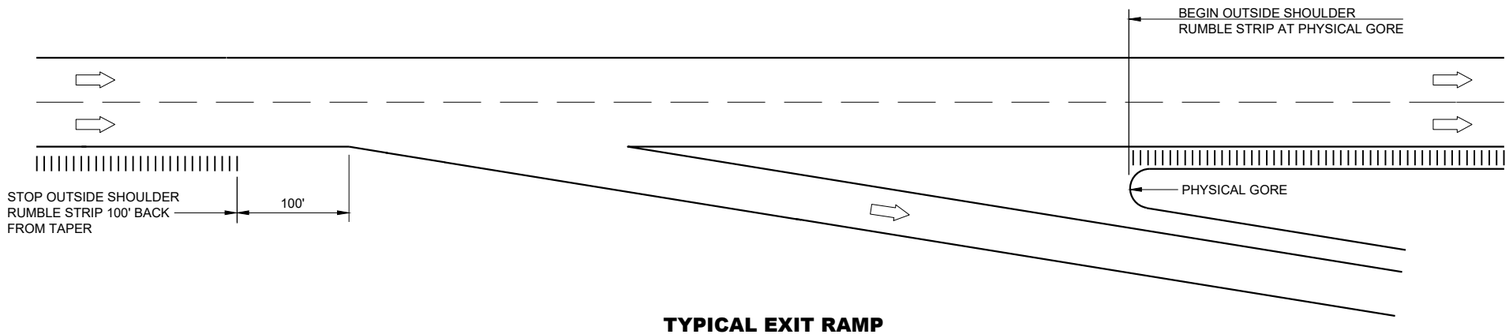
TYPICAL SHOULDER RUMBLE STRIPS
(ONE ROADWAY IS SHOWN)

SHOULDER RUMBLE STRIPS, DIVIDED ROADWAY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

6

SDD 13A05-06a



TYPICAL EXIT RAMP

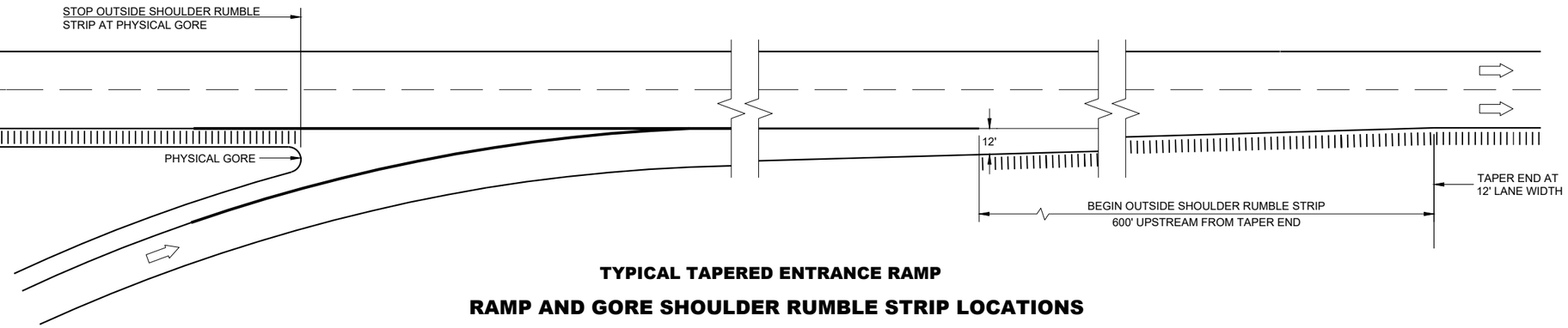
GENERAL NOTES

NO RUMBLE STRIP ON EXIT, DIRECTIONAL OR ENTRANCE RAMPS, EXCEPT NEAR THE ENTRANCE TAPER END AND ALONG THE PARALLEL RAMP AREA AS SHOWN.

RUMBLE STRIPS ON EXPRESSWAYS:
DO NOT INSTALL SHOULDER RUMBLE STRIPS ACROSS SIDE ROAD INTERSECTIONS, COMMERCIALAND PRIVATE DRIVEWAYS, ADJACENT TO RIGHT TURN LANES, LEFT TURN LANES, TURN LANE TAPERS, 25' IN ADVANCE OF BRIDGE DECKS, 25' IN ADVANCE OF BRIDGE APPROACHES, OR 100 FEET IN ADVANCE OF RAILROAD CROSSINGS.

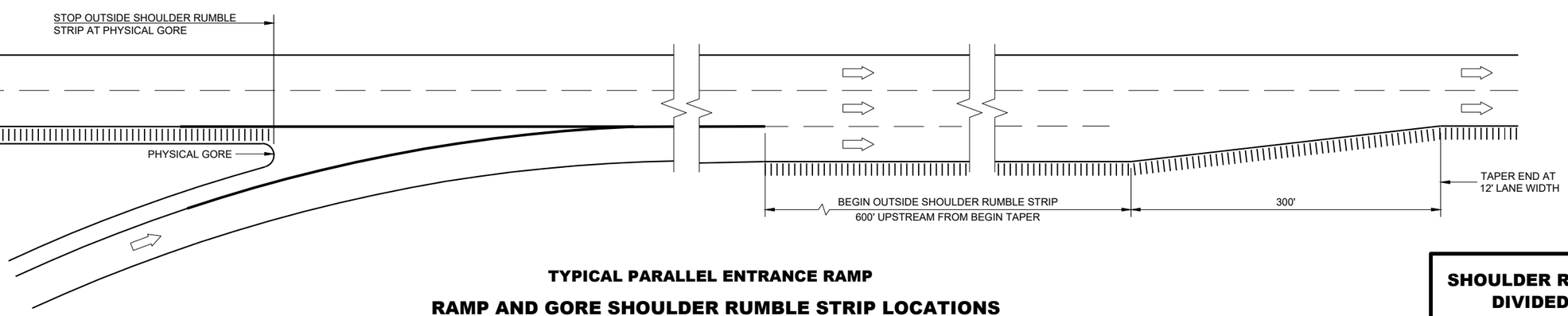
LEGEND

DIRECTION OF TRAFFIC



TYPICAL TAPERED ENTRANCE RAMP

RAMP AND GORE SHOULDER RUMBLE STRIP LOCATIONS



TYPICAL PARALLEL ENTRANCE RAMP

RAMP AND GORE SHOULDER RUMBLE STRIP LOCATIONS

SHOULDER RUMBLE STRIPS, DIVIDED ROADWAY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

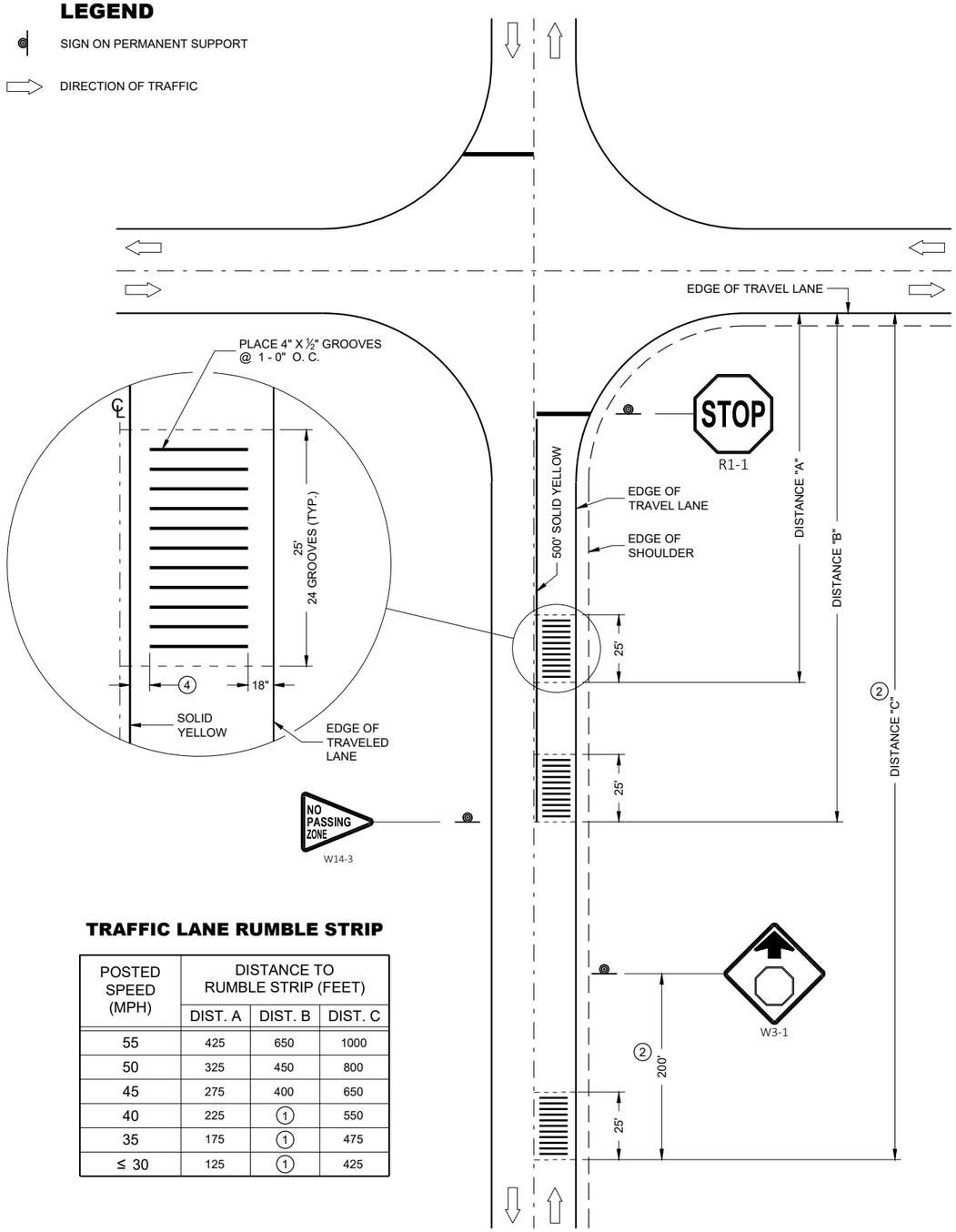
APPROVED
May 2023 — DATE
/S/ Rodney Taylor — ROADWAY DESIGN STANDARDS UNIT SUPERVISOR
FHWA

6
SDD 13A05-06b

LEGEND

SIGN ON PERMANENT SUPPORT

DIRECTION OF TRAFFIC



TRAFFIC LANE RUMBLE STRIP

POSTED SPEED (MPH)	DISTANCE TO RUMBLE STRIP (FEET)		
	DIST. A	DIST. B	DIST. C
55	425	650	1000
50	325	450	800
45	275	400	650
40	225	1	550
35	175	1	475
≤ 30	125	1	425

RUMBLE STRIP LOCATION

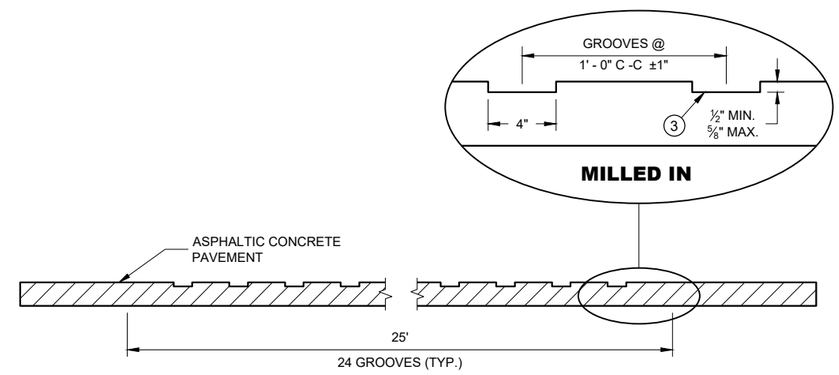
GENERAL NOTES

CONTRACTOR SHALL CONFIRM RUMBLE STRIP LOCATION WITH THE ENGINEER PRIOR TO INSTALLATION. THE ENGINEER MAY MODIFY THE RUMBLE STRIP LOCATION AS FIELD CONDITIONS DICTATE.

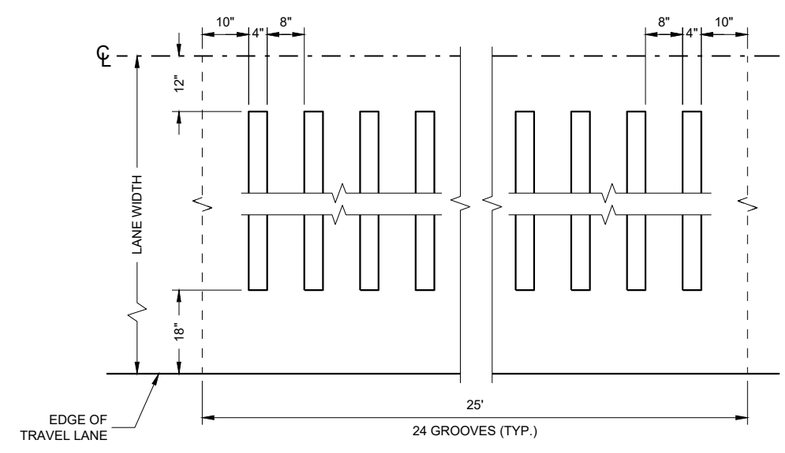
WHEN ASPHALTIC PAVEMENT IS NEW IN THE RUMBLE AREA, THE CONTRACTOR SHALL ALLOW THE PAVEMENT TO CURE A MINIMUM OF 7 DAYS PRIOR TO RUMBLE INSTALLATION.

PAVEMENT MARKING AND SIGNING DETAILS AND SPECIFICATIONS ARE PROVIDE ELSEWHERE IN THE CONTRACT.

1. ELIMINATE THE MIDDLE SET OF RUMBLE STRIPS.
2. LOCATE RUMBLE STRIP 200 FEET IN ADVANCE OF W3-1 SIGN AS SHOWN. IF W3-1 IS NOT IN PLACE, USE DISTANCE "C".
3. TYPICAL VERTICAL VARIATION BETWEEN PEAKS AND VALLEYS WITHIN THE CUT APPROXIMATELY $\frac{1}{16}$".
4. 12 INCH CLEAR BETWEEN THE SOLID YELLOW LINE AND THE EDGE OF THE RUMBLE.



ELEVATION VIEW



PLAN VIEW

ASPHALTIC PAVEMENT MILLED IN

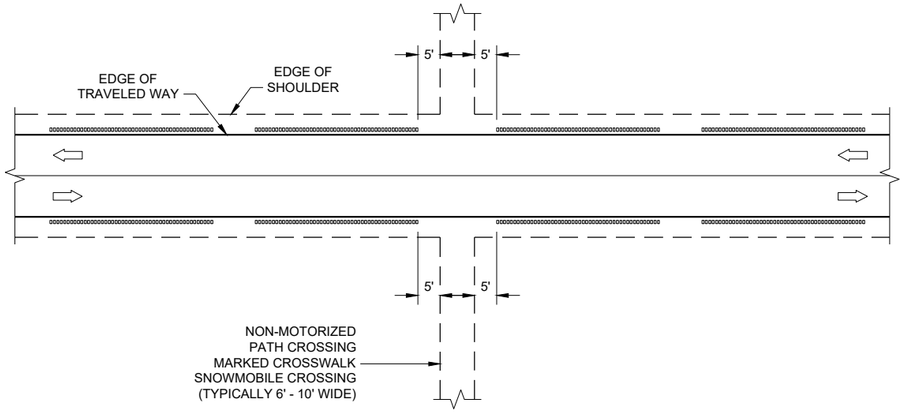
TRANSVERSE RUMBLE STRIPS, ASPHALTIC

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

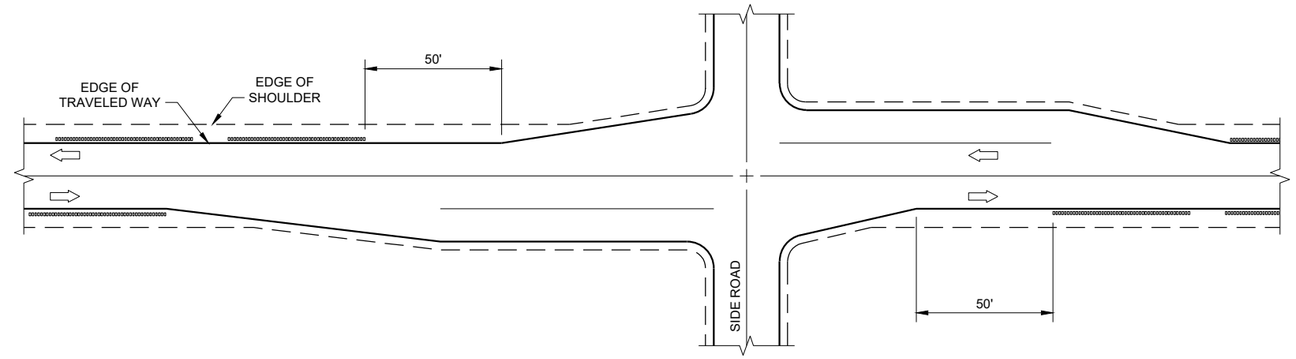
APPROVED
May 2023 — DATE
/S/ Rodney Taylor — ROADWAY DESIGN STANDARDS UNIT SUPERVISOR
FHWA

6

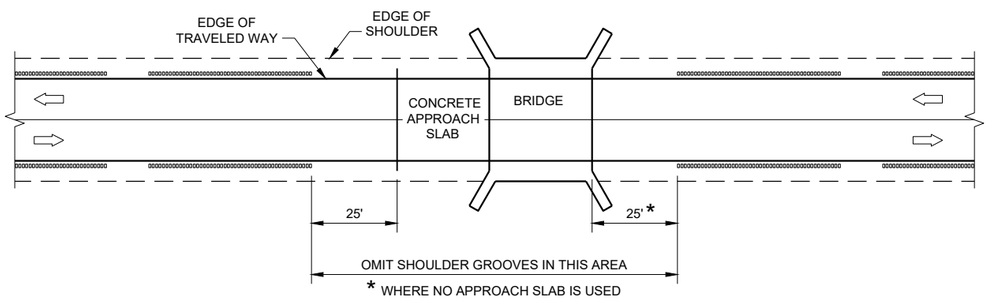
SDD 13A08 - 02



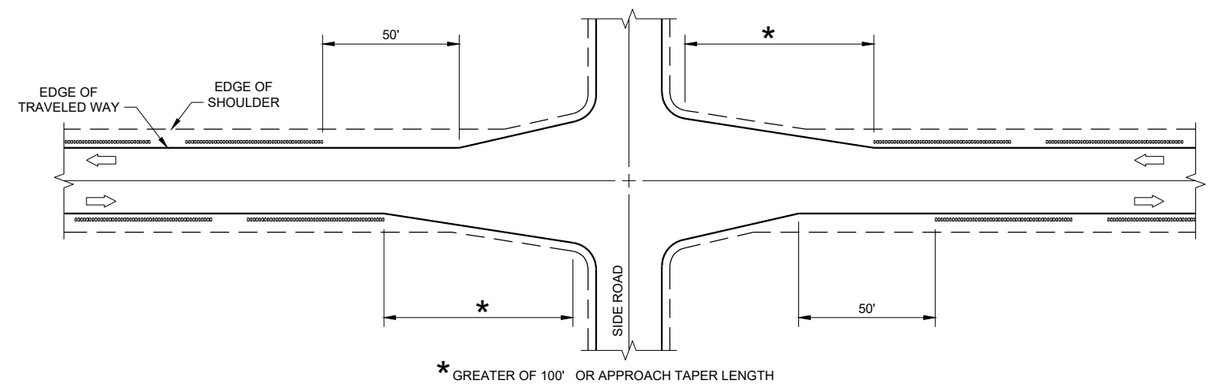
GROOVES AT MISCELLANEOUS CROSSINGS



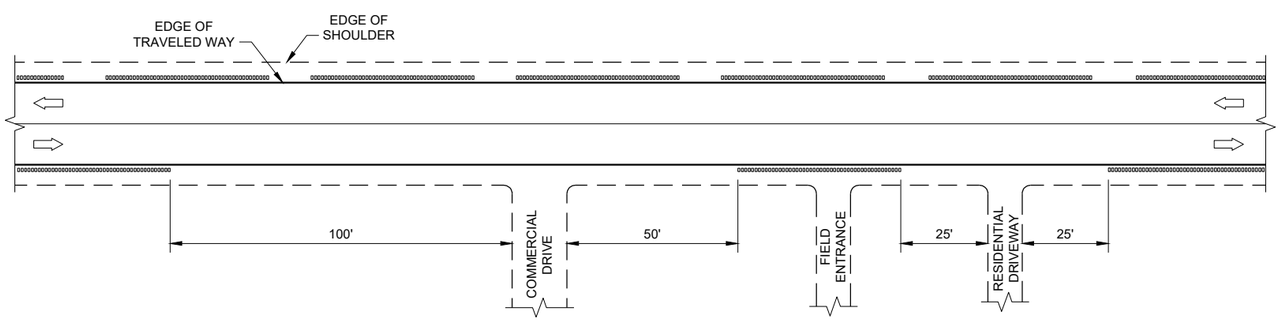
GROOVES AT RIGHT TURN LANE



GROOVES AT BRIDGES



GROOVES AT INTERSECTIONS WITH APPROACH TAPER



GROOVES AT DRIVEWAYS (1)

GENERAL NOTES

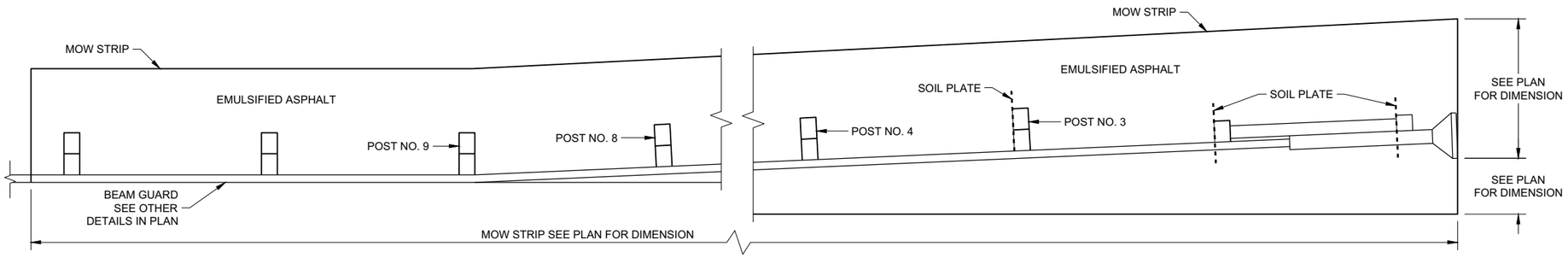
(1) SHOULDER GROOVES MAY BE OMITTED IN AREAS WITH HIGH CONCENTRATIONS OF DRIVEWAYS. WHEN DIRECTED BY THE ENGINEER.

SHOULDER AND EDGE LINE RUMBLE STRIPS CROSSINGS, INTERSECTIONS, BRIDGES, DRIVEWAYS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTA

6

SDD 13A10 - 03g

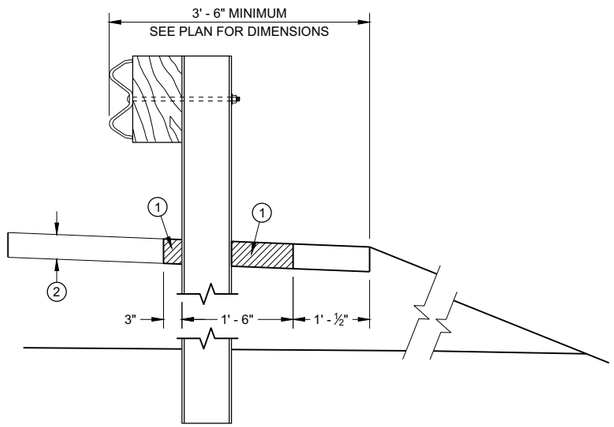


PLAN VIEW
MOW STRIP LAYOUT FOR ENERGY ABSORBING TERMINAL

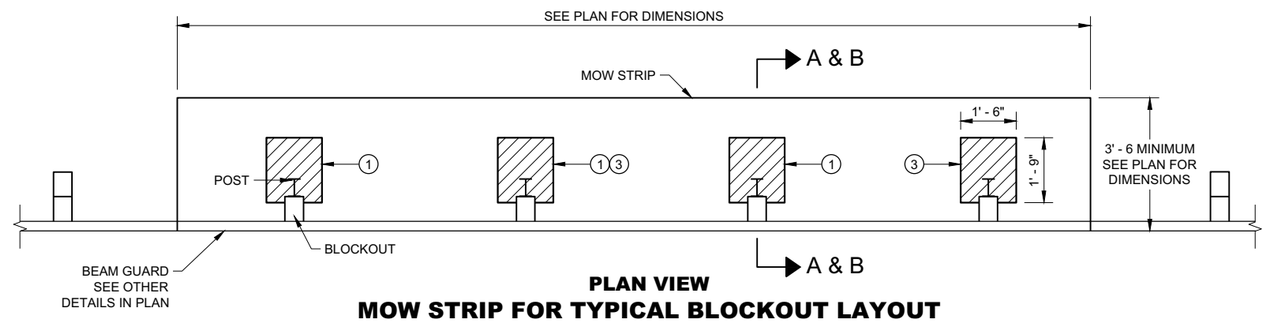
GENERAL NOTES

ONLY USE STEEL POSTS IN CONCRETE AND ASPHALT MOW STRIPS.

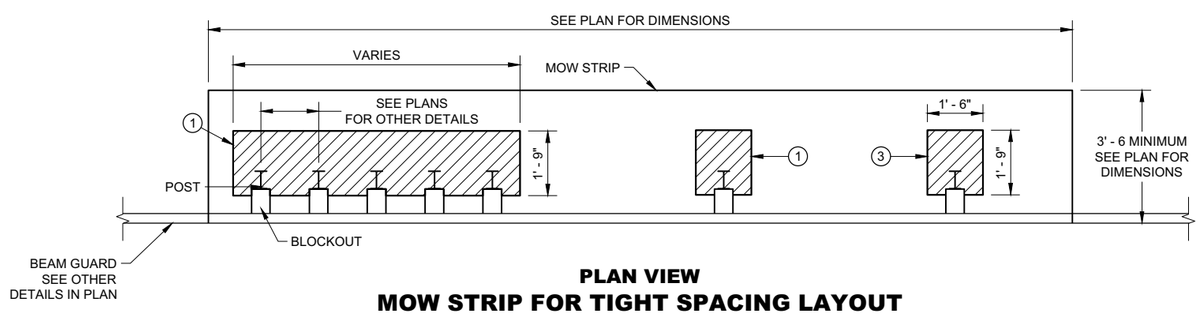
1. CONTROLLED LOW-STRENGTH BACKFILL OR EMULSIFIED ASPHALT.
2. DEPTH OF MOW STRIP:
   ASPHALT - 4"
   CONCRETE - 4"
   EMULSIFIED ASPHALT - 1" OR LESS
3. FOR EMULSIFIED ASPHALT, MOW STRIP STRIP LEAVE OUTS NOT REQUIRED. (TYPICAL FOR ALL POSTS)



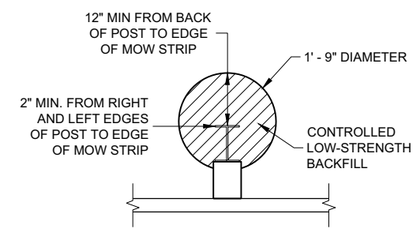
SECTION A - A



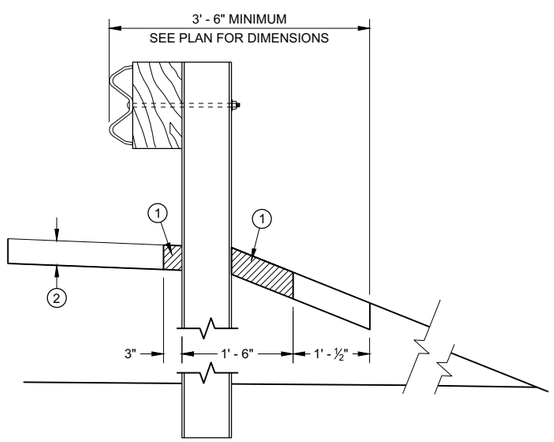
PLAN VIEW
MOW STRIP FOR TYPICAL BLOCKOUT LAYOUT



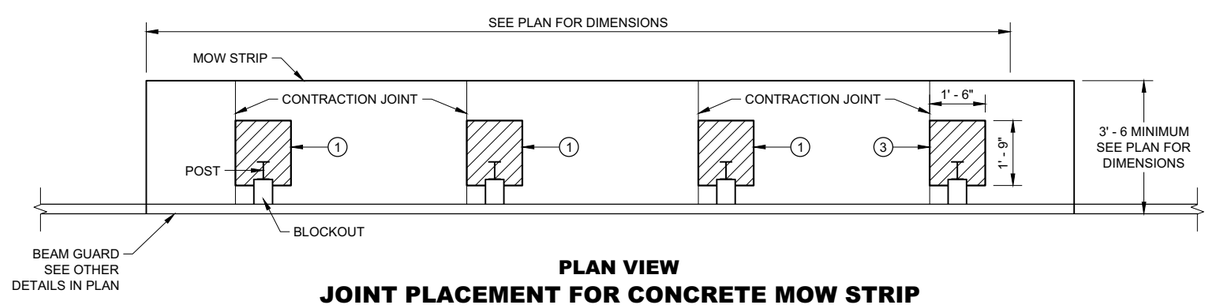
PLAN VIEW
MOW STRIP FOR TIGHT SPACING LAYOUT



ALTERNATIVE HMA
MOW STRIP DESIGN



SECTION B - B



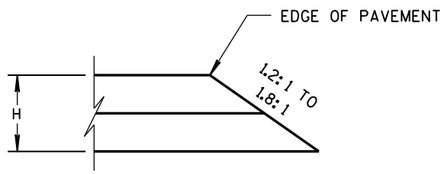
PLAN VIEW
JOINT PLACEMENT FOR CONCRETE MOW STRIP

GUARDRAIL MOW STRIP

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTA

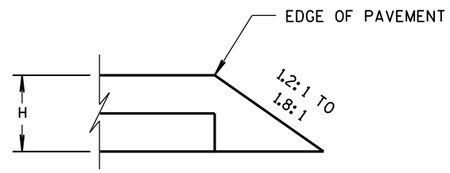
6

SDD 14B28 - 04a



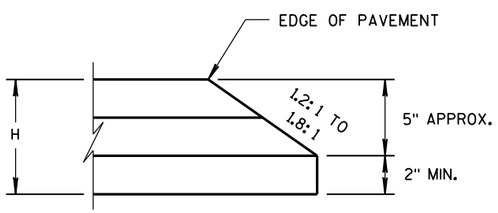
CONSTRUCTED WITH FINAL TWO LAYERS

FOR H 5" OR LESS



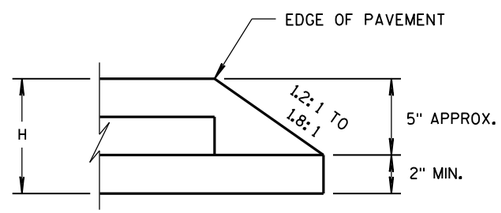
CONSTRUCTED WITH FINAL LAYER

FOR H 5" OR LESS



CONSTRUCTED WITH FINAL TWO LAYERS

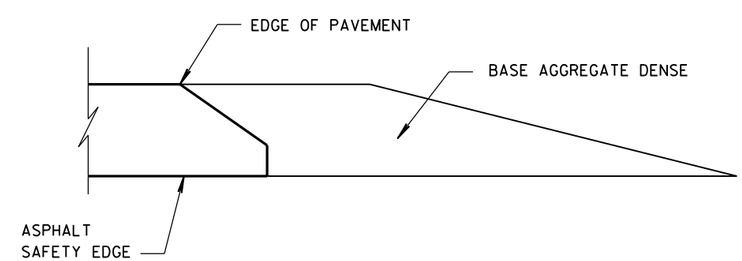
FOR H GREATER THAN 5"



CONSTRUCTED WITH FINAL LAYER

FOR H GREATER THAN 5"

HMA PAVEMENT AND HMA OVERLAYS



FINISHED SHOULDER AGGREGATE PLACEMENT

6

6

S.D.D. 14 B 29-1

SAFETY EDGE SM

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

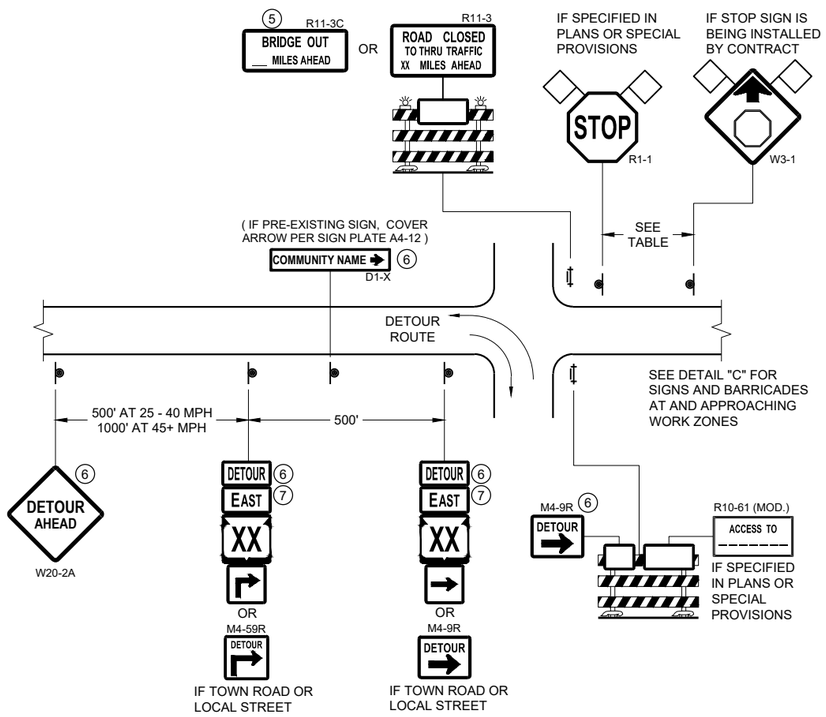
APPROVED

11/30/2012
DATE

/S/ Jerry H. Zogg
ROADWAY STANDARDS DEVELOPMENT ENGINEER

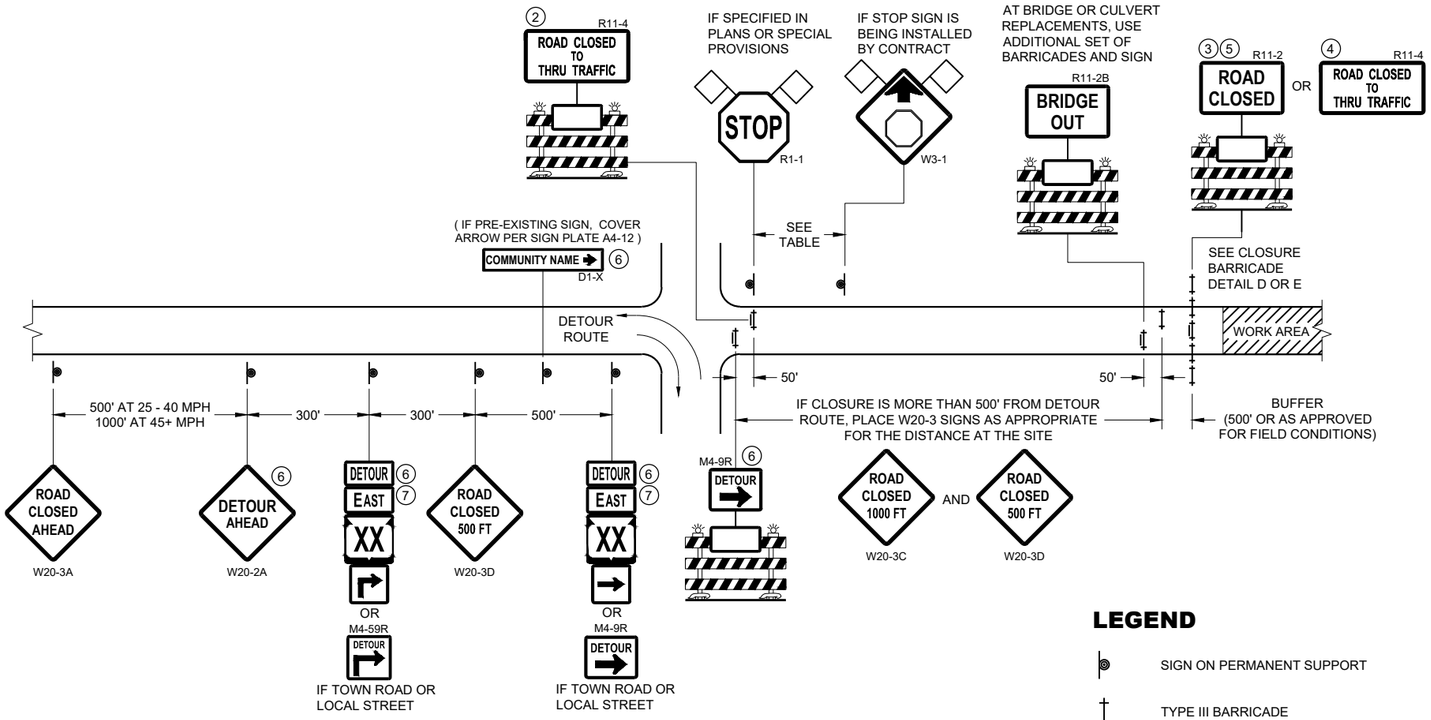
FHWA

S.D.D. 14 B 29-1



DETAIL A
MAINLINE CLOSURE WITH POSTED DETOUR

WORK ZONE GREATER THAN OR EQUAL TO ½ MILE FROM DETOUR ROUTE (1000 FEET IF URBAN)

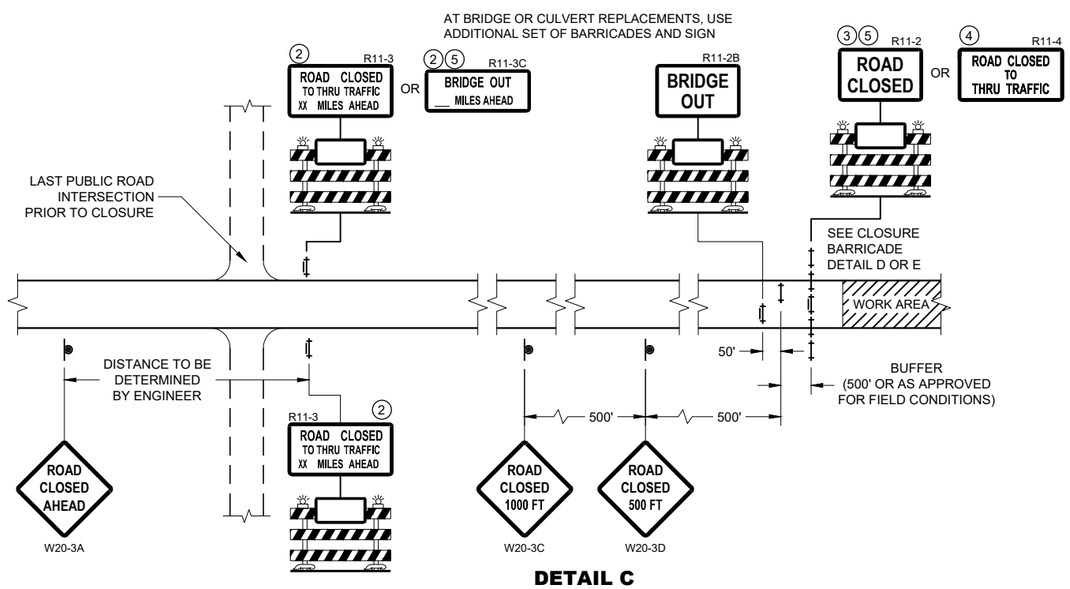


DETAIL B
MAINLINE CLOSURE WITH POSTED DETOUR

WORK ZONE LESS THAN ½ MILE FROM DETOUR ROUTE (1000 FEET IF URBAN)

LEGEND

- SIGN ON PERMANENT SUPPORT
- TYPE III BARRICADE
- TYPE III BARRICADE WITH ATTACHED SIGN
- TYPE "A" WARNING LIGHT (FLASHING)
- WORK AREA
- FLAGS, 16" X 16" MIN. (ORANGE)
- DETOUR M4 - 8
- EAST M3 - X
- XX (M1 - 4) OR XX (M1 - 6) OR COUNTY X (M1 - 5A)
- M05 - 1 OR M06 - 1



DETAIL C
MAINLINE CLOSURE, NO POSTED DETOUR

SPEED LIMIT (MPH)	"STOP AHEAD" ADVANCE WARNING DISTANCE (FT)
25	200
30	200
35	350
40	350
45	500
50	550
55	750

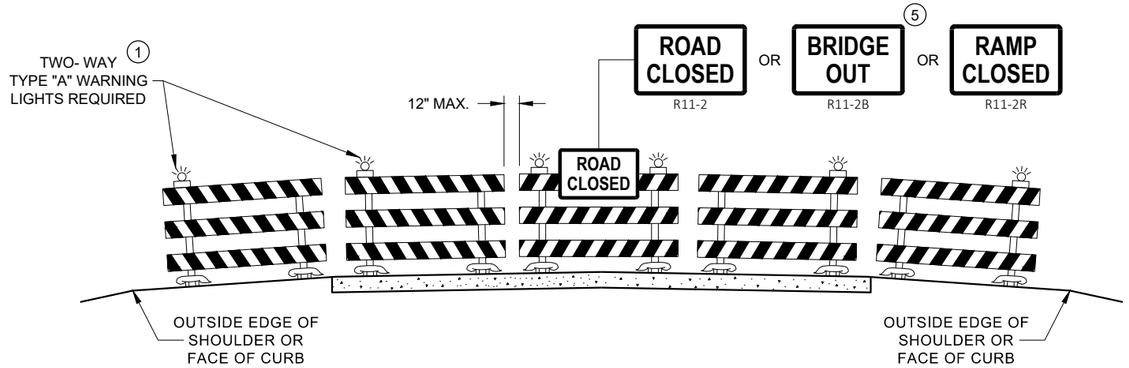
SEE SDD 15C2-SHEET "b" FOR GENERAL NOTES AND FOOTNOTES 1 THROUGH 7

BARRICADES AND SIGNS FOR MAINLINE CLOSURES

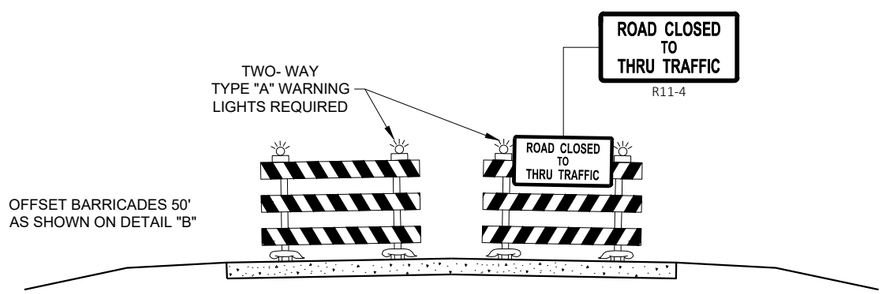
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
May 2023 — DATE
/S/ Andrew Heidtke — WORK ZONE ENGINEER

FHWA



DETAIL D
ROAD CLOSURE BARRICADE DETAIL
APPROACH VIEW



DETAIL E
LANE CLOSURE BARRICADE DETAIL
APPROACH VIEW

SEE SDD 15C2 - SHEET "a" FOR LEGEND

GENERAL NOTES

THE EXACT NUMBER, LOCATION, AND SPACING OF ALL SIGNS AND BARRICADES SHALL BE ADJUSTED TO FIT FIELD CONDITIONS AS APPROVED BY THE ENGINEER.

ANY SIGNS TEMPORARY OR EXISTING, WHICH CONFLICT WITH TRAFFIC CONTROL "IN USE", SHALL BE REMOVED OR COVERED AS NEEDED AND AS APPROVED BY THE ENGINEER.

THE SPACING BETWEEN TRAFFIC CONTROL SIGNS SHOULD BE ADJUSTED TO NOT CONFLICT WITH AND SHOULD PROVIDE A DESIRABLE MINIMUM OF 200 FEET CLEARANCE TO EXISTING SIGNS THAT WILL REMAIN IN PLACE.

BARRICADES THAT MUST BE MOVED FOR A WORK OPERATION SHALL BE IMMEDIATELY RE-ESTABLISHED UPON COMPLETION OF THE OPERATION, OR FOR CONTINUING OPERATIONS, AT THE END OF EACH WORKING DAY.

SIGNS THAT WILL BE IN PLACE LESS THAN 7 CONTINUOUS DAYS AND NIGHTS MAY BE MOUNTED ON PORTABLE SUPPORTS.

ALL TYPE III BARRICADES SHALL HAVE RAILS REFLECTORIZED ON BOTH FACES. STRIPES SHALL BE PROPERLY SLOPED DOWN TOWARD THE TRAFFIC SIDE OR AS SHOWN IN THE ROAD CLOSURE BARRICADE DETAIL "D" FOR FULL ROAD CLOSURES.

TYPE "A" LOW - INTENSITY FLASHING WARNING LIGHTS SHALL BE VISIBLE ON BOTH SIDES OF THE BARRICADE.

THE R11 - 2, R11 - 3, M4 - 9, R11 - 4, AND R10 - 61 SIGNS PLACED ON THE BARRICADES SHALL COVER NO MORE THAN THE TOP RAIL. THE SIGNS SHALL NOT COVER ANY PORTION OF THE MIDDLE RAIL OR BOTTOM RAILS.

"WO" AND "MO" SIGNS ARE THE SAME AS "W" AND "M" SIGNS EXCEPT THE BACKGROUND IS ORANGE.

ALL SIGNS SHALL BE 48" X 48" UNLESS OTHERWISE NOTED BELOW:
- R11 - 2 SHALL BE 48" X 30"
- R11 - 3 SHALL, R11 - 4 AND R10 - 61 SHALL BE 60 " X 30"
- M4 - 9 SHALL BE 30" X 24"
- M3 - X SHALL BE 24" X 12" (36" X 18" IF NEEDED TO MATCH EXISTING SIGNS)
- M4 - 8 SHALL BE 24" X 12" (36" X 18" IF NEEDED TO MATCH EXISTING SIGNS)
- M1 - 4, M1 - 5A AND M1 - 6 SHALL BE 24" X 24" (36" X 36" IF NEEDED TO MATCH EXISTING SIGNS)
- MO5 - 1 AND MO6 - 1 SHALL BE 21" X 21" (30" X 30" IF NEEDED TO MATCH EXISTING SIGNS)
- D1 - X SHALL BE AS SHOWN ON SPECIFIC PROJECT SIGNING DETAIL SHEETS.
- R1 - 1 SHALL BE 36" X 36"

1. TWO WARNING LIGHTS SHALL BE PROVIDED ON THE CENTER BARRICADE AND A MINIMUM OF ONE WARNING LIGHT SHALL BE PROVIDED ON EACH OF THE OTHER BARRICADES WITHIN THE ROADWAY LIMITS. SPACING OF THE WARNING LIGHTS SHALL BE UNIFORM TO THE EDGE OF ROADWAY AS SHOWN (APPROX. 8 FOOT LIGHT SPACING.
2. THESE SIGNS AND BARRICADES ARE NOT REQUIRED IF ROAD CLOSURE BEGINS AT AN INTERSECTION.
3. FOR ROAD CLOSURE WITHOUT LOCAL ACCESS TO PROJECT, SEE ROAD CLOSURE BARRICADE DETAIL "D".
4. FOR ROAD CLOSURE WITH LOCAL ACCESS TO PROJECT, SEE ROAD CLOSURE BARRICADE DETAIL "E".
5. FOR BRIDGE OR CULVERT REPLACEMENTS, SUBSTITUTE "BRIDGE OUT" INSTEAD OF "ROAD CLOSED" ON R11 - 2 AND R11 - 3 SIGNS.
6. INSTALL DETOUR AND COMMUNITY GUIDE SIGNS AND ARROWS ONLY IF SPECIFIED IN THE CONTRACT. IF THERE ARE EXISTING ROUTE MARKER ASSEMBLIES THAT WILL REMAIN IN PLACE, ADJUST THE LOCATION OF THE DETOUR ROUTE SIGNS TO CORRESPOND WITH THE EXISTING ASSEMBLIES. MODIFY EXISTING SIGNS WHERE POSSIBLE. SEE SPECIFIC PROJECT DETOUR SIGNING DETAIL SHEETS. IF DETOUR SIGNS ARE BEING INSTALLED BY OTHERS, PLACE THE CONTRACTED TRAFFIC CONTROL SIGNS TO ALLOW FOR PLACEMENT OF ALL WARNING, DETOUR AND GUIDE SIGNS AS SHOWN.
7. "EAST" CARDINAL DIRECTION MARKERS AND RIGHT TURN ARROWS ARE SHOWN. USE OTHER CARDINAL DIRECTIONS AND ARROWS AS APPROPRIATE.

BARRICADES AND SIGNS FOR VARIOUS CLOSURES

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
May 2023 — DATE
/S/ Andrew Heidtke — WORK ZONE ENGINEE
FHWA

THIS DRAWING PROVIDES GENERAL GUIDANCE ON TYPICAL DETOUR SIGN LAYOUT AND SPACING. SEE PROJECT DETOUR SIGNING SHEETS FOR SPECIFIC DETAILS FOR EACH PROJECT.

LEGEND

- SIGN ON PERMANENT SUPPORT
- WORK AREA
- DETOUR — M4 - 8
- EAST — M3 - X
- XX — M1 - 4 OR XX — M1 - 6 OR COUNTY X — M1 - 5A
- M05 - 1 OR M06 - 1 OR M06 - 1

GENERAL NOTES

THE EXACT NUMBER, LOCATION AND SPACING OF ALL SIGNS SHALL BE ADJUSTED TO FIT FIELD CONDITIONS AS APPROVED BY THE ENGINEER.

IF THERE ARE EXISTING ROUTE MARKER ASSEMBLIES THAT WILL REMAIN IN PLACE, ADJUST THE LOCATION OF THE DETOUR ROUTE SIGNS TO CORRESPOND WITH THE EXISTING ASSEMBLIES. SEE SPECIFIC PROJECT DETOUR SIGNING DETAIL SHEETS. MODIFY EXISTING SIGNS WHERE POSSIBLE.

THE SPACING BETWEEN TRAFFIC CONTROL AND DETOUR SIGNS SHOULD BE ADJUSTED TO NOT CONFLICT WITH AND TO PROVIDE A DESIRABLE MINIMUM OF 200 FEET CLEARANCE TO EXISTING SIGNS THAT WILL REMAIN IN PLACE.

ANY SIGNS TEMPORARY OR EXISTING, WHICH CONFLICT WITH TRAFFIC CONTROL "IN USE" SHALL BE REMOVED OR COVERED AS NEEDED AND AS APPROVED BY THE ENGINEER.

SIGNS THAT WILL BE IN PLACE LESS THAN 7 CONTINUOUS DAYS AND NIGHTS MAY BE MOUNTED ON PORTABLE SUPPORTS.

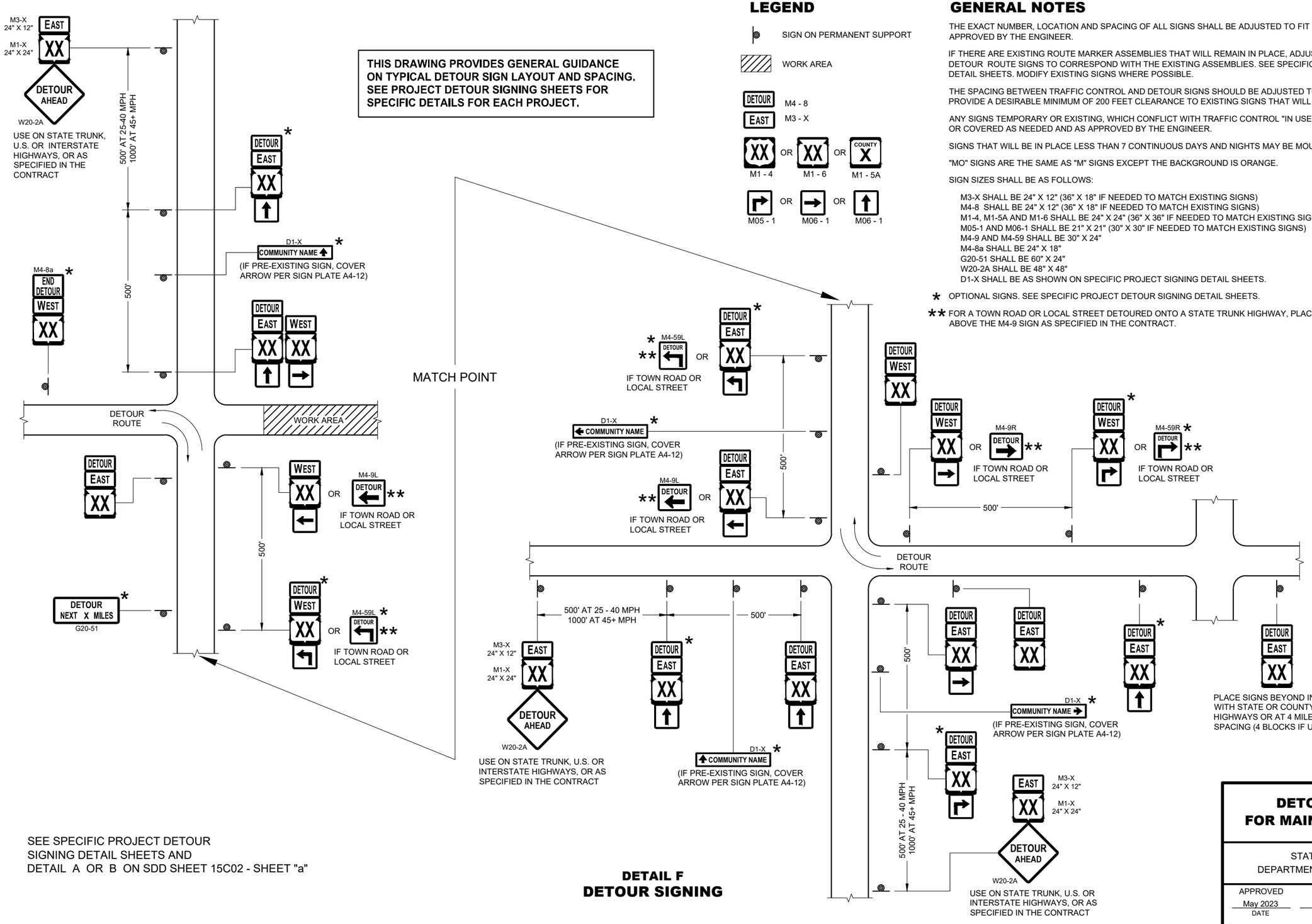
"MO" SIGNS ARE THE SAME AS "M" SIGNS EXCEPT THE BACKGROUND IS ORANGE.

SIGN SIZES SHALL BE AS FOLLOWS:

M3-X SHALL BE 24" X 12" (36" X 18" IF NEEDED TO MATCH EXISTING SIGNS)
M4-8 SHALL BE 24" X 12" (36" X 18" IF NEEDED TO MATCH EXISTING SIGNS)
M1-4, M1-5A AND M1-6 SHALL BE 24" X 24" (36" X 36" IF NEEDED TO MATCH EXISTING SIGNS)
M05-1 AND M06-1 SHALL BE 21" X 21" (30" X 30" IF NEEDED TO MATCH EXISTING SIGNS)
M4-9 AND M4-59 SHALL BE 30" X 24"
M4-8a SHALL BE 24" X 18"
G20-51 SHALL BE 60" X 24"
W20-2A SHALL BE 48" X 48"
D1-X SHALL BE AS SHOWN ON SPECIFIC PROJECT SIGNING DETAIL SHEETS.

* OPTIONAL SIGNS. SEE SPECIFIC PROJECT DETOUR SIGNING DETAIL SHEETS.

** FOR A TOWN ROAD OR LOCAL STREET DETOURED ONTO A STATE TRUNK HIGHWAY, PLACE A ROAD NAME PLAQUE ABOVE THE M4-9 SIGN AS SPECIFIED IN THE CONTRACT.



SEE SPECIFIC PROJECT DETOUR SIGNING DETAIL SHEETS AND DETAIL A OR B ON SDD SHEET 15C02 - SHEET "a"

DETAIL F
DETOUR SIGNING

DETOUR SIGNING FOR MAINLINE CLOSURES

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
May 2023 — DATE
/S/ Andrew Heidtke — WORK ZONE ENGINEER
FHWA

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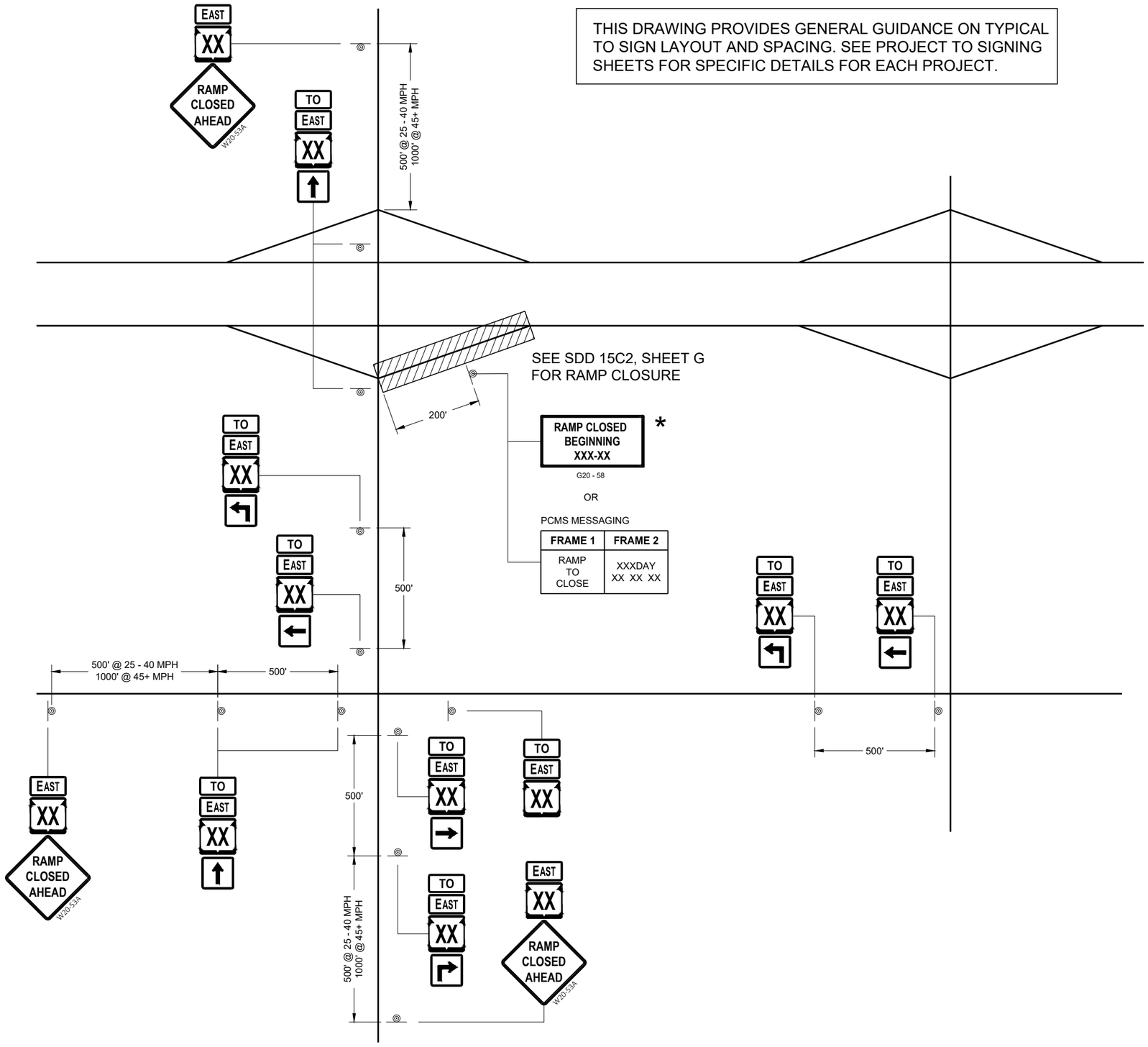
SDD 15C02 - 09c

THIS DRAWING PROVIDES GENERAL GUIDANCE ON TYPICAL TO SIGN LAYOUT AND SPACING. SEE PROJECT TO SIGNING SHEETS FOR SPECIFIC DETAILS FOR EACH PROJECT.



LEGEND

SIGN ON PERMANENT SUPPORT

TO / EAST — MO4 - 5, M3 - X

XX M1 - 6 OR XX M1 - 4 OR INTERSTATE XX M1 - 1

M05 - 1 OR M06 - 1 OR M06 - 1

GENERAL NOTES

THE EXACT NUMBER, LOCATION AND SPACING OF ALL SIGNS SHALL BE ADJUSTED TO FIT FIELD CONDITIONS AS APPROVED BY THE ENGINEER.

IF THERE ARE ANY ROUTE MARKER ASSEMBLIES THAT WILL REMAIN IN PLACE, ADJUST THE LOCATION OF THE TO ROUTE SIGNS TO CORRESPOND WITH THE EXISTING ASSEMBLIES. SEE SPECIFIC PROJECT TO SIGNING DETAIL SHEETS. MODIFY EXISTING SIGNS WHERE POSSIBLE.

THE SPACING BETWEEN TRAFFIC CONTROL AND TO SIGNS SHOULD BE ADJUSTED TO NOT CONFLICT WITH AND TO PROVIDE A DESIRABLE MINIMUM OF 200 FEET CLEARANCE TO EXISTING SIGNS THAT WILL REMAIN IN PLACE.

ANY SIGNS TEMPORARY OR EXISTING, WHICH CONFLICT WITH TRAFFIC CONTROL " IN USE" SHALL BE REMOVED OR COVERED AS NEEDED AND AS APPROVED BY THE ENGINEER.

SIGNS THAT SHALL BE IN PLACE LESS THAN 7 CONTINUOUS DAYS AND NIGHTS MAY BE MOUNTED ON PORTABLE SUPPORTS.

"MO" SIGNS ARE THE SAME AS "M" SIGNS EXCEPT THE BACKGROUND IS ORANGE.

SIGN SIZES SHALL BE AS FOLLOW:
- M3 - X SHALL BE 24" X 12". (36" X 18" IF NEEDED TO MATCH EXISTING SIGNS).
- MO4 - 5 SHALL BE 24" X 12". (36" X 18" IF NEEDED TO MATCH EXISTING SIGNS).
- M1 - 1, M1 - 4, AND M1 - 6 SHALL BE 24" X 24" (36" X 36" IF NEEDED TO MATCH EXISTING SIGNS).
- MO5 - 1, MO5 - 2, AND MO6 - 1, SHALL BE 21" X 21". (30" X 30" IF NEEDED TO MATCH EXISTING SIGNS).
- W20 - 53A SHALL BE 48" X 48"

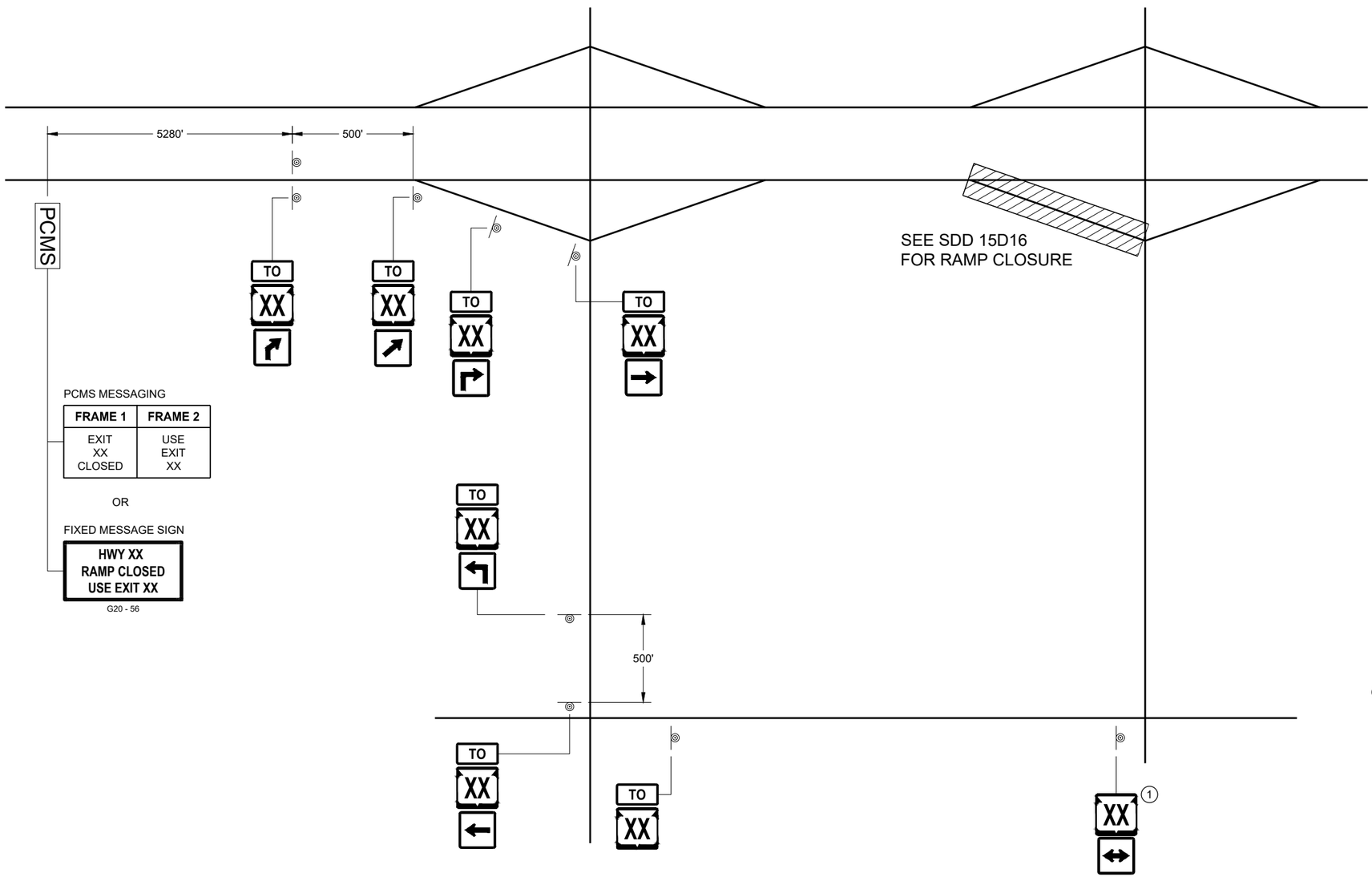
* PLACE "RAMP CLOSED BEGINNING" SIGN 7 CALENDAR DAYS PRIOR TO CLOSURE OR AS DIRECTED BY THE ENGINEER. SEE WISCONSIN STANDARD SIGN PLATES FOR LAYOUT.

ON RAMP LANE CLOSURE

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
May 2023 — DATE
/S/ Andrew Heidtke — WORK ZONE ENGINEE
FHWA

THIS DRAWING PROVIDES GENERAL GUIDANCE ON TYPICAL "TO" MO-4 SIGN LAYOUT AND SPACING. SEE PROJECT TO SIGNING SHEETS FOR SPECIFIC DETAILS FOR EACH PROJECT.



PCMS MESSAGING

FRAME 1	FRAME 2
EXIT XX CLOSED	USE EXIT XX

OR

FIXED MESSAGE SIGN

HWY XX
RAMP CLOSED
USE EXIT XX

G20 - 56

LEGEND

SIGN ON PERMANENT SUPPORT

PCMS — PORTABLE CHANGEABLE MESSAGE SIGN

TO — MO4 - 5

XX — M1 - 4 OR XX — M1 - 6 OR COUNTY X — M1 - 5A

M05 - 1 OR M05 - 2 OR M06 - 1 OR M06 - 2 OR M06 - 4

GENERAL NOTES

SEE SDD 15D16 "TRAFFIC CONTROL, EXIT RAMP CLOSURE" DETAIL FOR TRAFFIC CONTROL AT EXIT RAMP CLOSURE.

THE EXACT NUMBER, LOCATION AND SPACING OF ALL SIGNS SHALL BE ADJUSTED TO FIT FIELD CONDITIONS AS APPROVED BY THE ENGINEER.

IF THERE ARE ANY ROUTE MARKER ASSEMBLIES THAT WILL REMAIN IN PLACE, ADJUST THE LOCATION OF THE "TO" MO-4 ROUTE SIGNS TO CORRESPOND WITH THE EXISTING ASSEMBLIES. SEE SPECIFIC PROJECT TO SIGNING DETAIL SHEETS. MODIFY EXISTING SIGNS WHERE POSSIBLE.

THE SPACING BETWEEN TRAFFIC CONTROL AND "TO" MO-4 SIGNS SHOULD BE ADJUSTED TO NOT CONFLICT WITH AND TO PROVIDE A DESIRABLE MINIMUM OF 200 FEET CLEARANCE TO EXISTING SIGNS THAT WILL REMAIN IN PLACE.

ANY SIGNS TEMPORARY OR EXISTING, WHICH CONFLICT WITH TRAFFIC CONTROL " IN USE" SHALL BE REMOVED OR COVERED AS NEEDED AND AS APPROVED BY THE ENGINEER.

SIGNS THAT SHALL BE IN PLACE LESS THAN 7 CONTINUOUS DAYS AND NIGHTS MAY BE MOUNTED ON PORTABLE SUPPORTS.

"MO" SIGNS ARE THE SAME AS "M" SIGNS EXCEPT THE BACKGROUND IS ORANGE.

SIGN SIZES SHALL BE AS FOLLOW:
- MO4 - 5 SHALL BE 24" X 12". (36" X 18" IF NEEDED TO MATCH EXISTING SIGNS).
- M1 - 4, M1 - 5A, AND M1 - 6 SHALL BE 24" X 24" (36" X 36" IF NEEDED TO MATCH EXISTING SIGNS).
- MO5 - 1, MO5 - 2, AND MO6 - 1, SHALL BE 21" X 21". (30" X 30" IF NEEDED TO MATCH EXISTING SIGNS).

(1) ONLY ADD IF THERE ARE NO EXISTING ROUTE MARKERS FOR THE INTERSECTING ROADWAY.

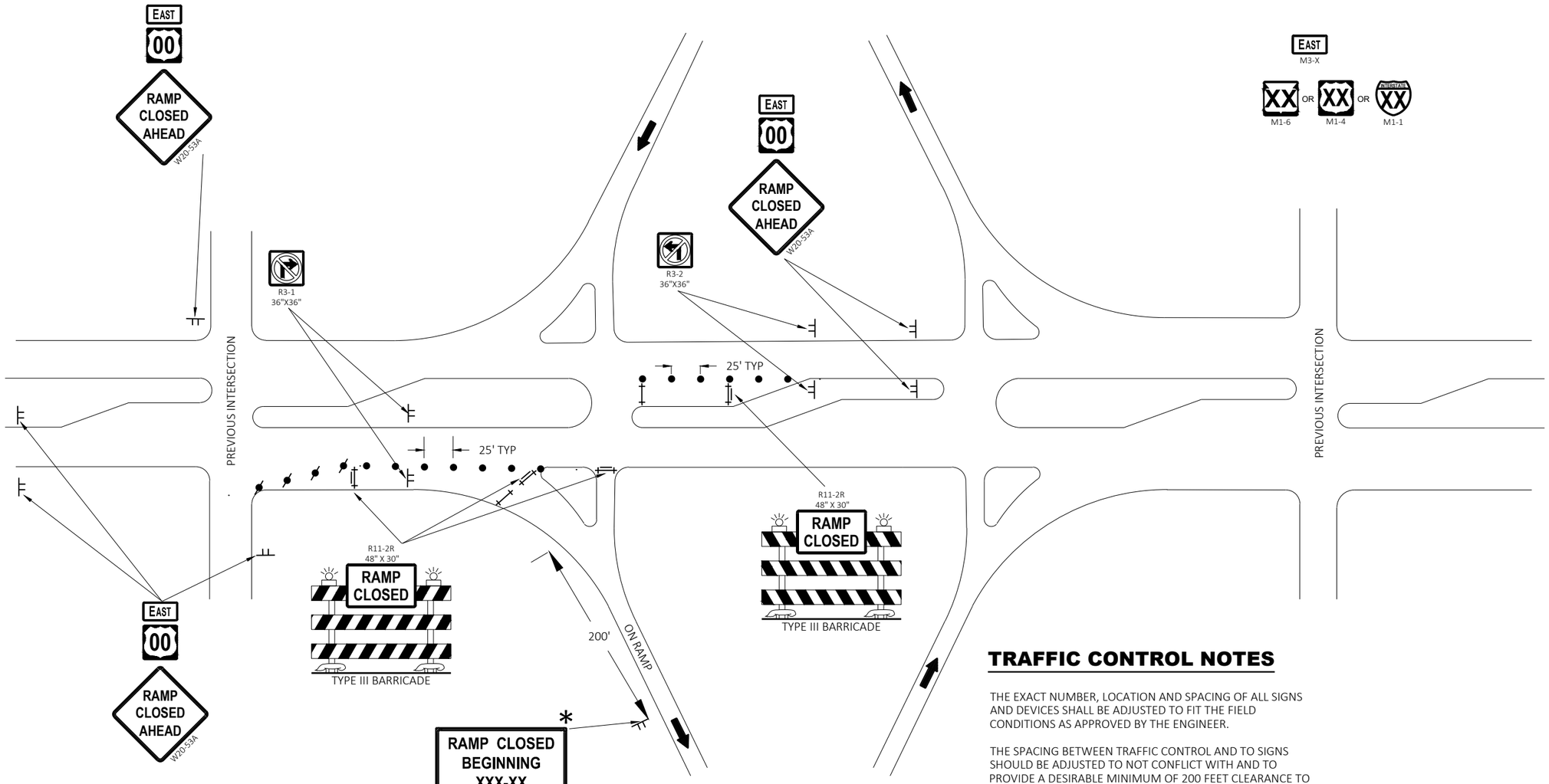
OFF RAMP
LANE CLOSURE

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
May 2023 — DATE
/S/ Andrew Heidtke — WORK ZONE ENGINEE
FHWA

6

SDD 15C02 - 09e



LEGEND

- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE "C" STEADY BURN LIGHT
- TYPE III BARRICADE
- TYPE III BARRICADE WITH ATTACHED SIGN
- SIGN ON PERMANENT SUPPORT
- SIGN ON TEMPORARY SUPPORT
- DIRECTION OF TRAFFIC

OR

PCMS MESSAGING

FRAME 1	FRAME 2
RAMP TO CLOSE	XXX DAY XX XX XX

TRAFFIC CONTROL NOTES

THE EXACT NUMBER, LOCATION AND SPACING OF ALL SIGNS AND DEVICES SHALL BE ADJUSTED TO FIT THE FIELD CONDITIONS AS APPROVED BY THE ENGINEER.

THE SPACING BETWEEN TRAFFIC CONTROL AND TO SIGNS SHOULD BE ADJUSTED TO NOT CONFLICT WITH AND TO PROVIDE A DESIRABLE MINIMUM OF 200 FEET CLEARANCE TO EXISTING SIGNS THAT WILL REMAIN IN PLACE.

ANY SIGNS TEMPORARY OR EXISTING, WHICH CONFLICT WITH THE TRAFFIC CONTROL "IN USE" SHALL BE REMOVED OR COVERED AS NEEDED AND AS APPROVED BY THE ENGINEER.

SIGNS THAT SHALL BE IN PLACE LESS THAN 7 CONTINUOUS DAYS AND NIGHTS MAY BE MOUNTED ON PORTABLE SUPPORTS.

SIGN SIZES SHALL BE AS FOLLOWS:

- M3-X SHALL BE 24"x24" (36" x18" IF NEEDED TO MATCH EXISTING SIGNS)
- M1-1, M1-4, AND M1-6 SHALL BE 24"x24" (36"x36" IF NEEDED TO MATCH EXISTING SIGNS)
- W20-53A SHALL BE 48"X48"

* PLACE "RAMP CLOSED BEGINNING" SIGN 7 CALENDAR DAYS PRIOR TO CLOSURE OR AS DIRECTED BY THE ENGINEER. SEE WISCONSIN STANDARD SIGN PLATES FOR LAYOUT.

TRAFFIC CONTROL FOR ENTRANCE RAMP CLOSURE

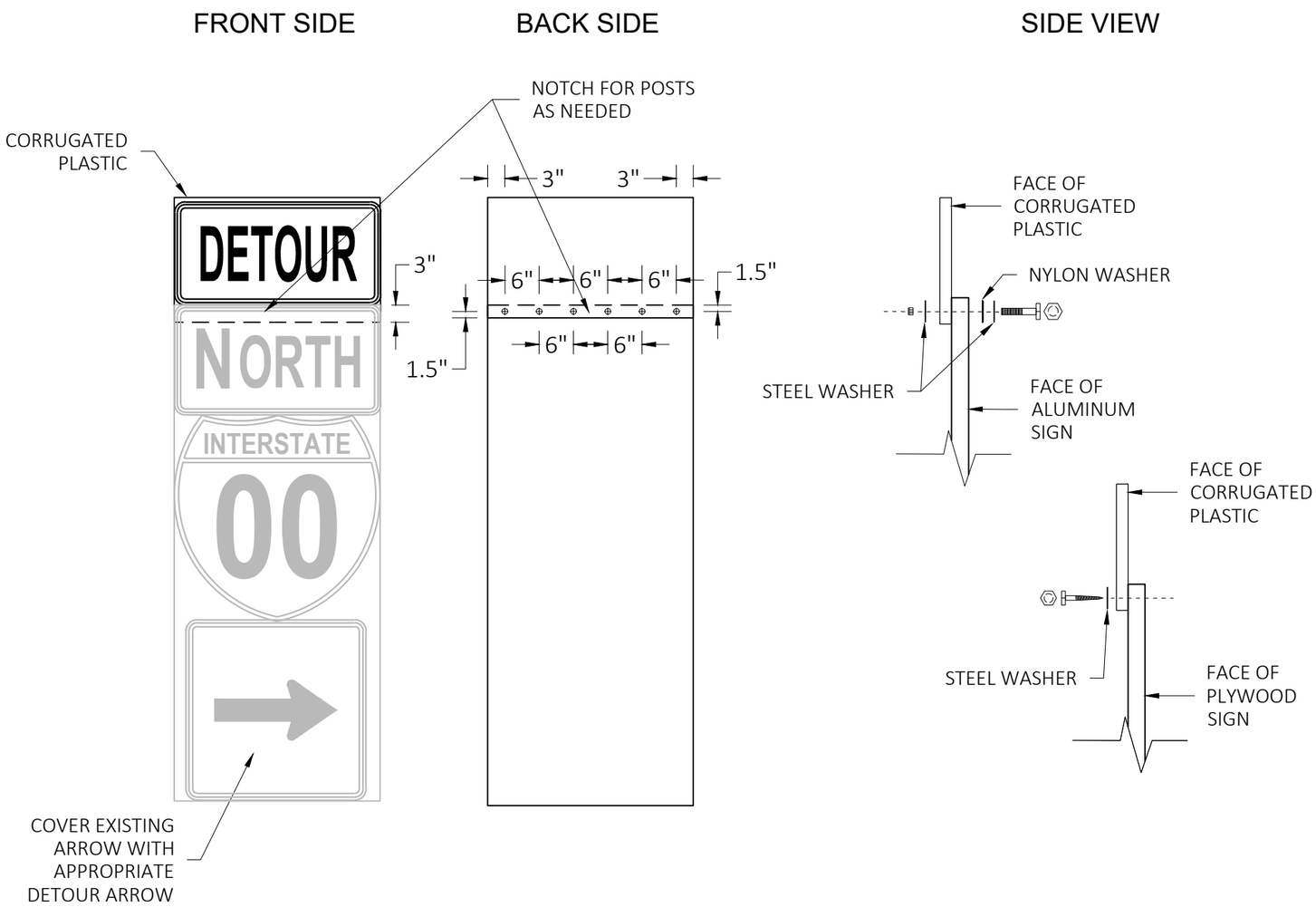
TRAFFIC CONTROL FOR ENTRANCE RAMP CLOSURE

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
May 2023 — DATE
/S/ Andrew Heidtke — WORK ZONE ENGINEE
FHWA

6

SDD 15C02-09g



GENERAL NOTES

CELLS OF CORRUGATED PLASTIC SHALL BE VERTICALLY ORIENTED.

PROVIDE A 0.4-INCH THICK BASE CORRUGATED PLASTIC WITH A 0.035-INCH WALL THICKNESS AND 0.4-INCH CELL SIZE.

FOR 36" WIDE SIGNS: USE 6 FASTENERS AS SHOWN.

FOR 24" WIDE SIGNS: USE 4 FASTENERS WITH EDGE SPACING AS SHOWN AND 6" SPACING BETWEEN FASTENERS.

METAL WASHERS, NUTS, BOLTS AND LAGS SHALL HAVE HEXAGONAL HEADS AND SHALL BE EITHER:

A. HOT DIP GALVANIZED IN ACCORDANCE WITH ASTM DESIGNATION: A 153, CLASS D, OR SC 3.

B. ELECTRO-GALVANIZED IN ACCORDANCE WITH ASTM DESIGNATION: B 633, TYPE III, SC3

THREADS ON BOLTS AND NUTS SHALL BE MANUFACTURED WITH SUFFICIENT ALLOWANCE FOR THE CADMIUM PLATE OR GALVANIZED COATING TO PERMIT THE NUTS TO RUN FREELY ON THE BOLTS.

PLYWOOD SIGNS:
LAG SCREWS - 5/16" x 1"
ALUMINUM SIGNS:
MACHINE BOLTS - 5/16" x 1-1/4" LENGTH W/NUTS
WASHERS:
1-1/4" O.D. x 3/8" I.D. x 1/16" STEEL
1-1/4" O.D. x 3/8" I.D. x .080 NYLON

MODIFIED ROUTE ASSEMBLY FOR DETOUR SIGNING

MODIFIED ROUTE ASSEMBLY FOR DETOUR SIGNING

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
May 2023 — DATE
/S/ Andrew Heidtke — ROADWAY STANDARDS DEVEL ENGINEER
FHWA

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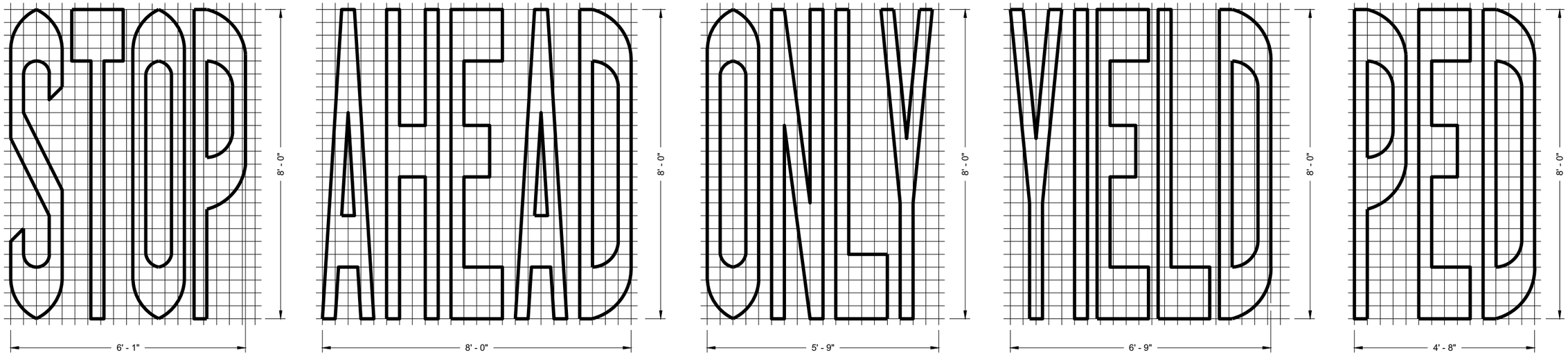
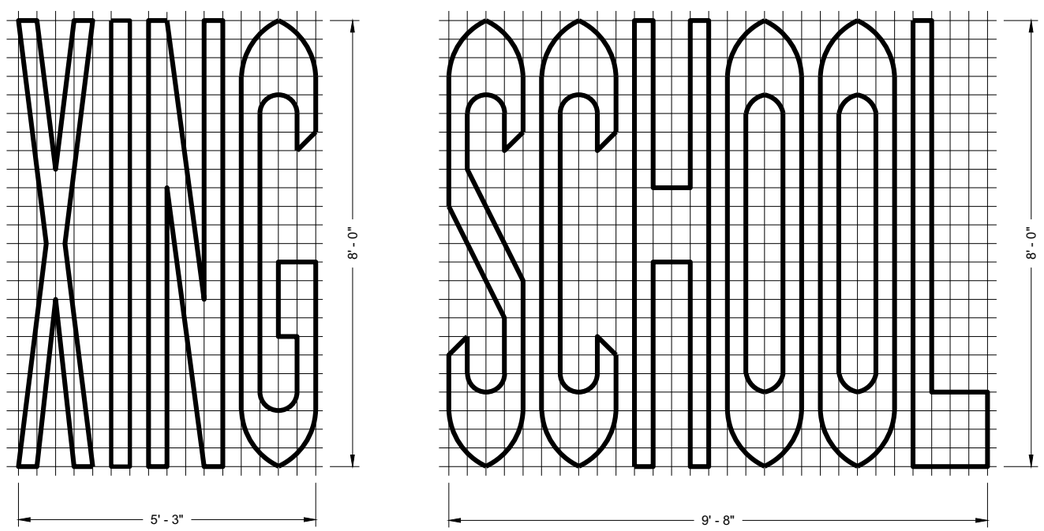
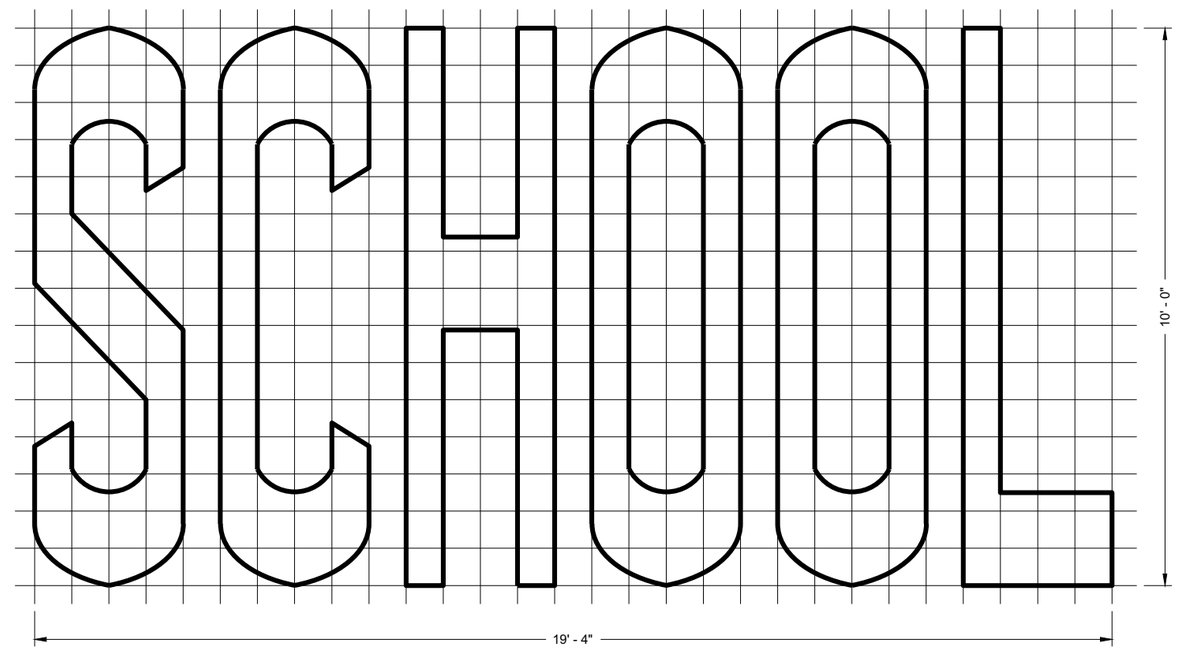
SDD 15C02-09h





SINGLE LANE



TWO - LANE

6

6

GENERAL NOTES

DETAILS OF INSTALLATION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND APPLICABLE SPECIAL PROVISIONS.

PAVEMENT MARKING WORDS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

November 2019 — DATE

/S/ Matthew Rauch — STATE SIGNING AND MAF ENGINEER

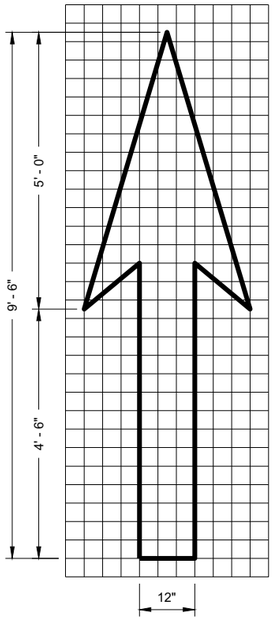
FHWA

SDD 15C07 - 15b

SDD 15C07 - 15b

GENERAL NOTES

DETAILS OF INSTALLATION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND APPLICABLE SPECIAL PROVISIONS.



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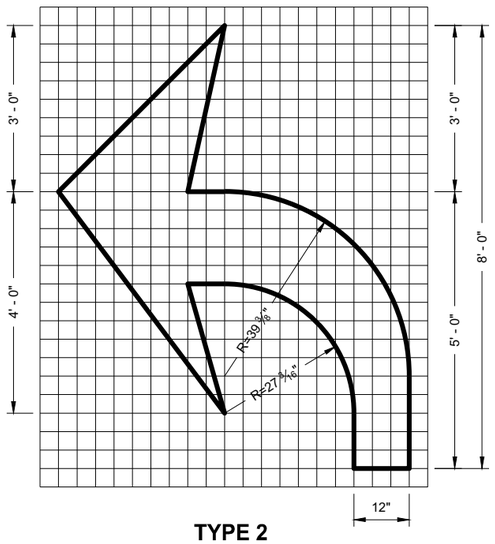

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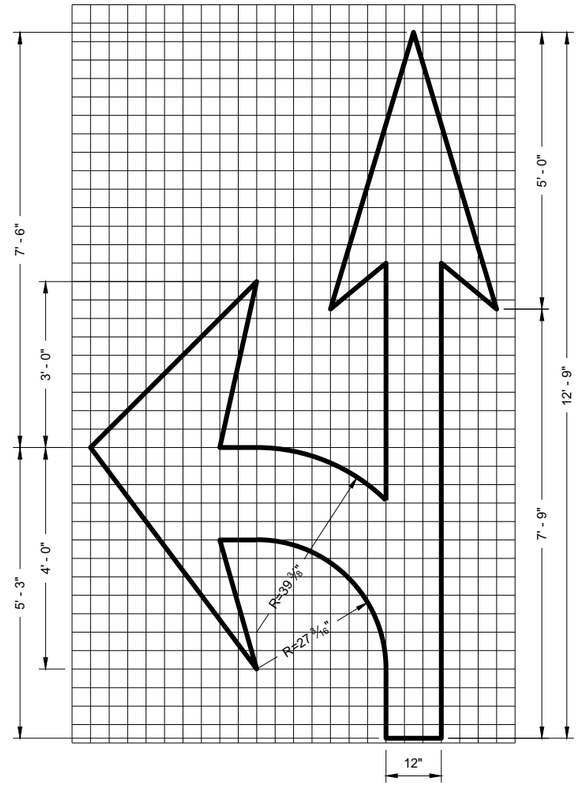

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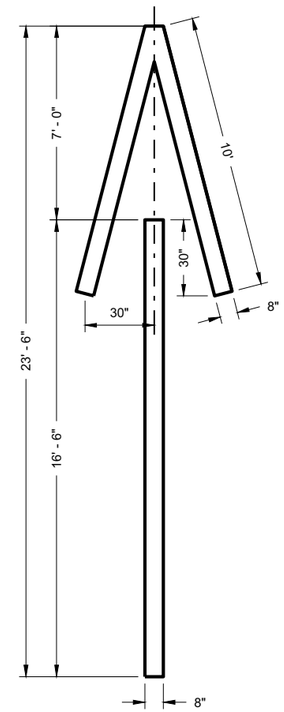

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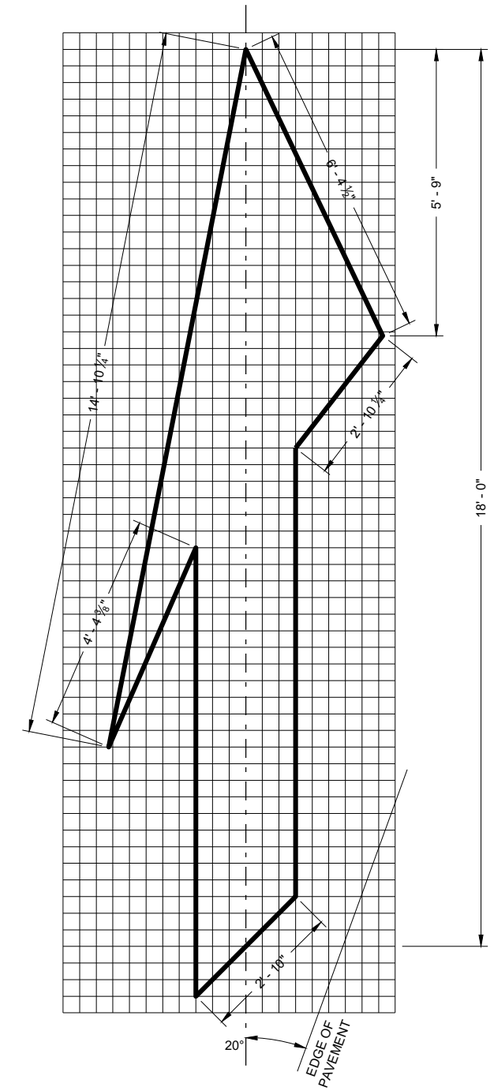
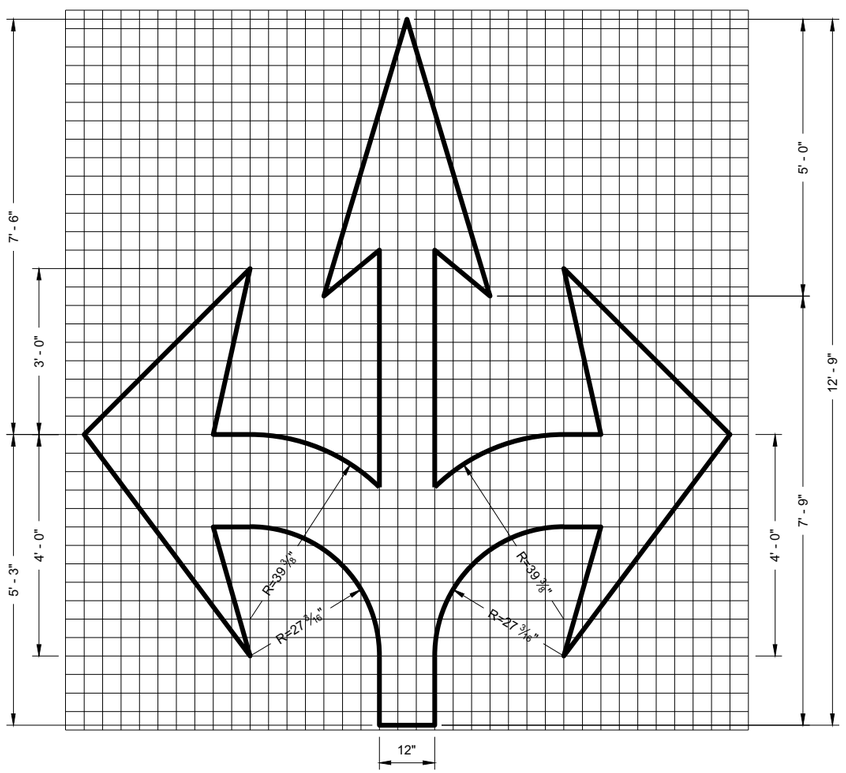
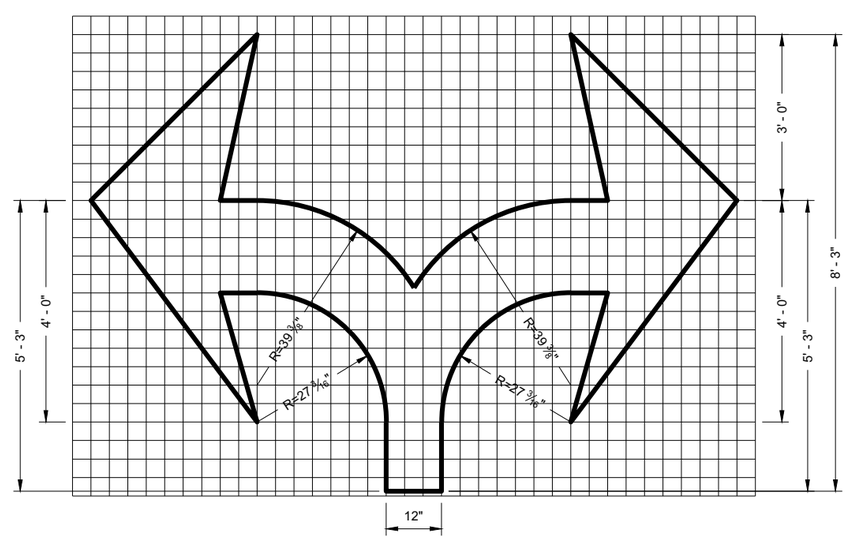


TYPE 5 LANE DROP ARROW



TYPE 6



TYPE 7

6

6

PAVEMENT MARKING ARROWS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
November 2019 — DATE
/S/ Matthew Rauch — STATE SIGNING AND MAR ENGINEER
FHWA

SDD 15C07 - 15c

SDD 15C07 - 15c

*CONFIRM MARKING LINE WIDTH WITH THE MISCELLANEOUS QUANTITIES

GENERAL NOTES

DETAILS OF CONSTRUCTION NOT SHOWN ON THIS DRAWING SHALL CONFORM TO STANDARD SPECIFICATIONS AND SPECIAL PROVISIONS.

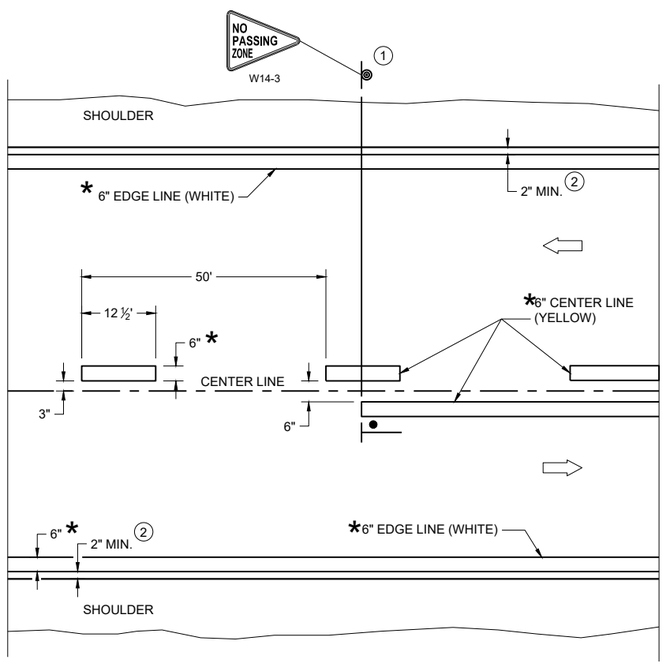
1. LOCATE THE NO PASSING ZONE W14-3 SIGN WITHIN 50 FEET OF THE "T" MARKING
2. MEASURE FROM EDGE OF MARKING TO JOINT LINE. THIS DOES NOT INCLUDE SPACE NEEDED FOR GROOVING OPERATIONS.

LEGEND

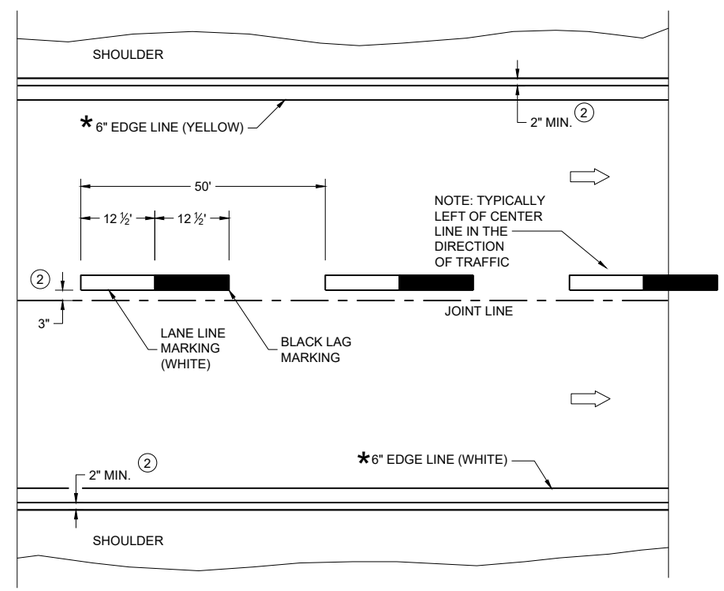
"T" MARKING

SIGN ON PERMANENT SUPPORT

DIRECTION OF TRAFFIC



TWO WAY TRAFFIC



ONE WAY TRAFFIC

PERMANENT PAVEMENT MARKING

6

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SDD 15C08-23a

SDD 15C08-23a

PERMANENT LONGITUDINAL PAVEMENT MARKINGS

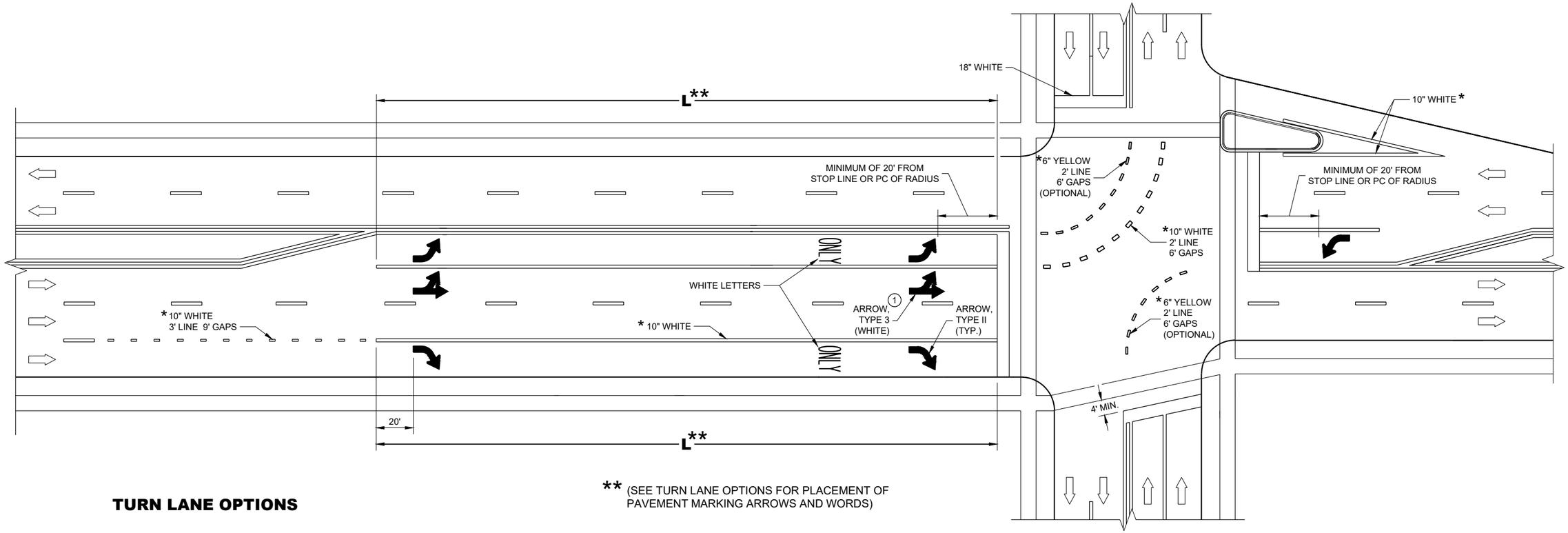
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

May 2023 — DATE

/S/ Jeannie Silver — Statewide Pavement Marking Engineer

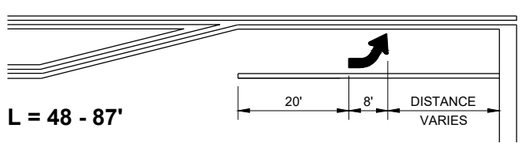
FHWA

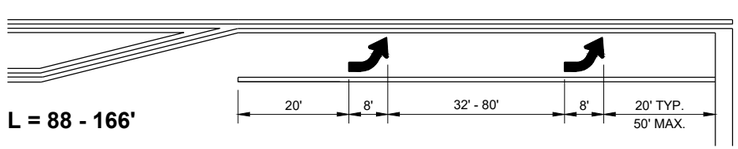


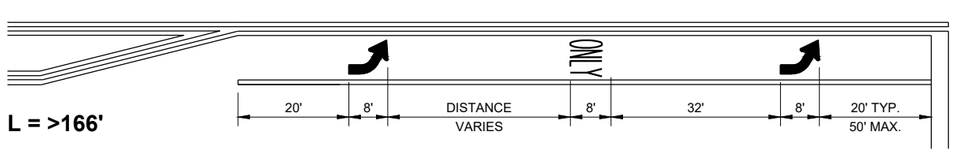
** (SEE TURN LANE OPTIONS FOR PLACEMENT OF PAVEMENT MARKING ARROWS AND WORDS)

TURN LANE OPTIONS

LENGTH OF TURN BAY (L) OF 0 - 47' DOES NOT REQUIRE PAVEMENT MARKING ARROWS OR WORDS







GENERAL NOTES

1. QUANTITY AND LOCATION OF TYPE 3 ARROWS ARE THE SAME AS THE TYPE II ARROWS IN THE ADJACENT TURN LANE. FOR TURN LANES WITH A PHYSICAL SEPARATION IN THE SAME DIRECTION OF TRAVEL, THE ARROWS AND "ONLY" MARKING MAY BE ELIMINATED.

⇨ DIRECTION OF TRAFFIC

L = LENGTH OF TURN BAY

* CONFIRM MARKING LINE WIDTH WITH THE MISCELLANEOUS QUANTITIES

PAVEMENT MARKING (TURN LANES)

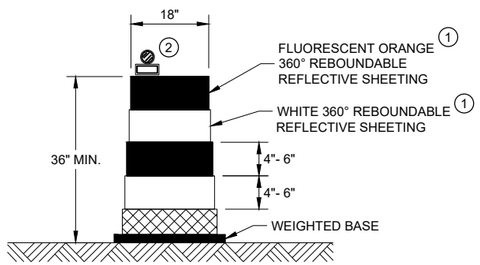
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTAT

6

SDD 15C08-23d

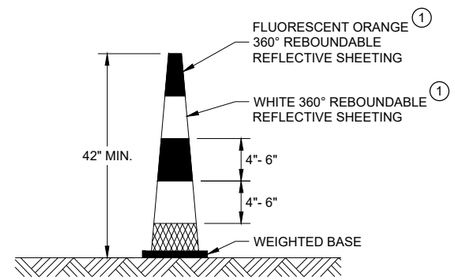
GENERAL NOTES

1. REFLECTIVE SHEETING SHALL FOLLOW THE REQUIREMENTS IN THE APPROVED PRODUCTS LISTING FOR SIGN SHEETING.
2. LOCATION OF WARNING LIGHTS WHEN SHOWN ON THE PLAN.



DRUM

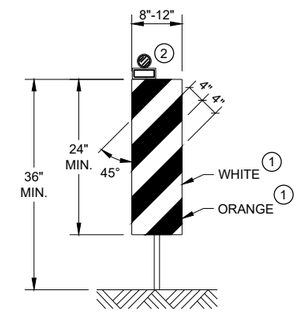
BALLAST WIDTHS
RANGE FROM 24"-36"



42" CONE

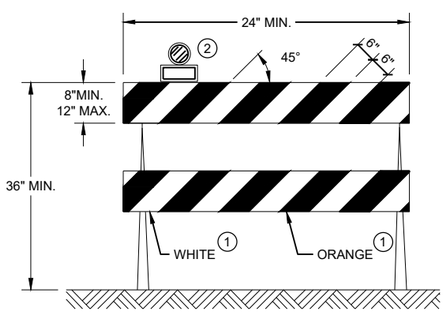
DO NOT USE IN TAPERS
½ SPACING OF DRUMS

BALLAST WIDTHS
RANGE FROM 14"-20"



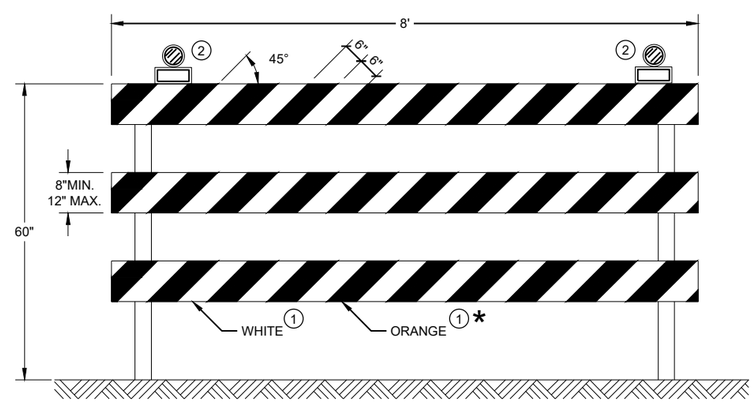
VERTICAL PANEL

THE STRIPES SHALL SLOPE DOWNWARD TO
THE TRAFFIC SIDE FOR CHANNELIZATION.



TYPE II BARRICADE

FOR RAILS LESS THAN 36" LONG, 4" WIDE STRIPES
MAY BE USED. ALL STRIPES SHALL SLOPE DOWNWARD
TO THE TRAFFIC SIDE FOR CHANNELIZATION.



TYPE III BARRICADE

IF SIGN MOUNTED, DO NOT COVER MORE THAN 50% OF THE TOP
TWO RAILS OR 33% OF THE TOTAL AREA OF THE THREE RAILS.

* IF USED FOR A PERMANENT APPLICATION USE RED SHEETING.

CHANNELIZING DEVICES DRUMS, CONES, BARRICADES AND VERTICAL PANELS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
November 2022 /S/ Andrew Heidtke
DATE WORK ZONE ENGINEE
FHWA

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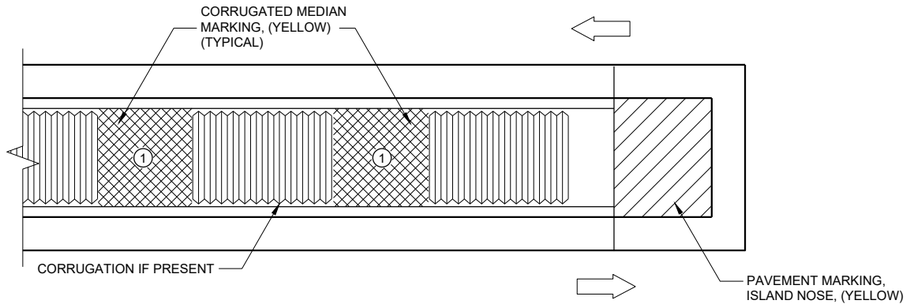
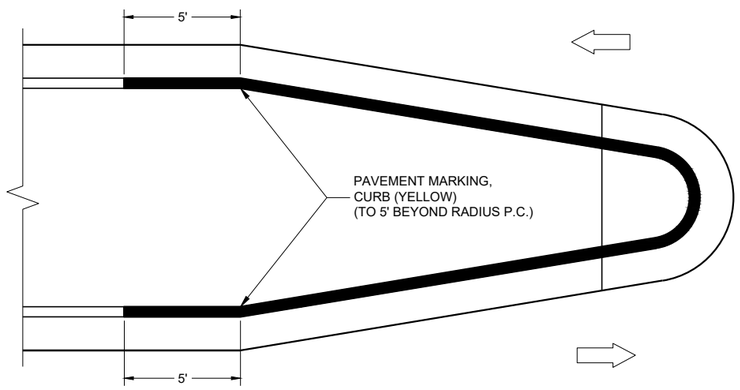
SDD 15C11 - 10b

6

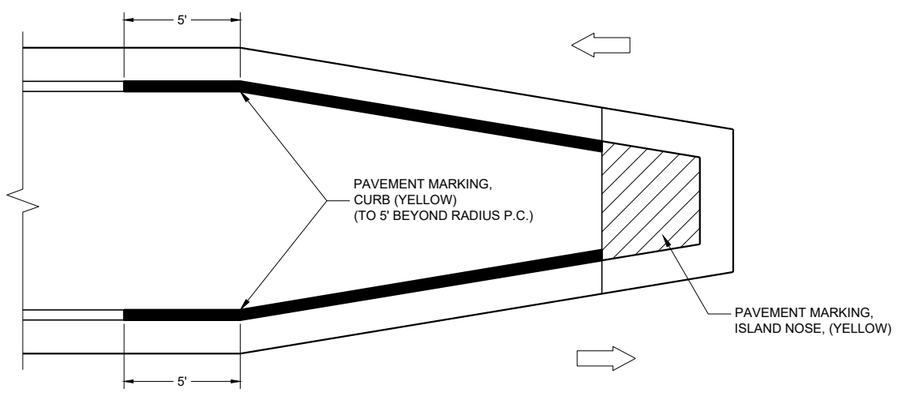
SDD 15C11 - 10b



MEDIAN ISLAND WITH SQUARE BLUNT NOSE



MEDIAN ISLAND WITH ROUND BLUNT NOSE



MEDIAN ISLAND WITH SLOPED NOSE

TYPICAL PLACEMENT OF PAVEMENT MARKING ON MEDIAN ISLANDS

GENERAL NOTES

WHEN CONCRETE CORRUGATED MEDIAN IS CONSTRUCTED TO SEPARATE TRAFFIC OPERATING IN THE OPPOSING DIRECTION, YELLOW PAVEMENT MARKING SHALL BE APPLIED TO THE FLAT PORTION OF THE CONCRETE CORRUGATED MEDIAN. THE ITEM OF PAVEMENT MARKING, CONCRETE CORRUGATED MEDIAN, WILL BE MEASURED IN PLACE AND ACCEPTED IN ACCORDANCE WITH THE CONTRACT AND PAID FOR AT THE CONTRACT UNIT PRICE PER SQUARE FOOT.

(1) APPLY PAVEMENT MARKING TO THE FLAT PORTION OF CORRUGATED MEDIAN.

ISLAND NOSE MARKING

CURB MARKING

CORRUGATED MEDIAN MARKING

DIRECTION OF TRAVEL

PAVEMENT MARKINGS, MEDIAN ISLAND NOSE

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
May 2023 — DATE
/S/ Jeannie Silver — ROADWAY STANDARDS DEVELOPMENT UNIT SUPERVISOR
FHWA

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SDD 15C18-08b

REQUIREMENTS FOR EDGE LINES		
POSTED SPEED	IS THERE CONTINUOUS LIGHTING?	
	YES	NO
≤ 30 MPH	NO	OPTIONAL
35 OR 40 MPH	OPTIONAL	RECOMMENDED
≥ 45 MPH	RECOMMENDED	REQUIRED

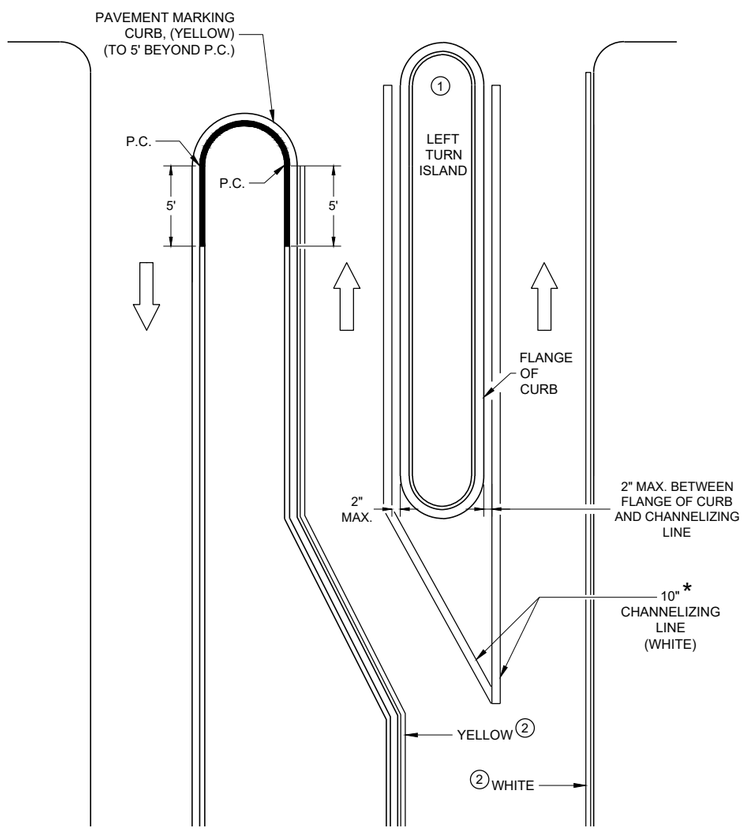
GENERAL NOTES

APPLIES TO ISLANDS AT LEFT TURNS AT ONE WAY ROADWAYS AS WELL.

SEE MISCELLANEOUS QUANTITIES FOR SIGN SIZE.

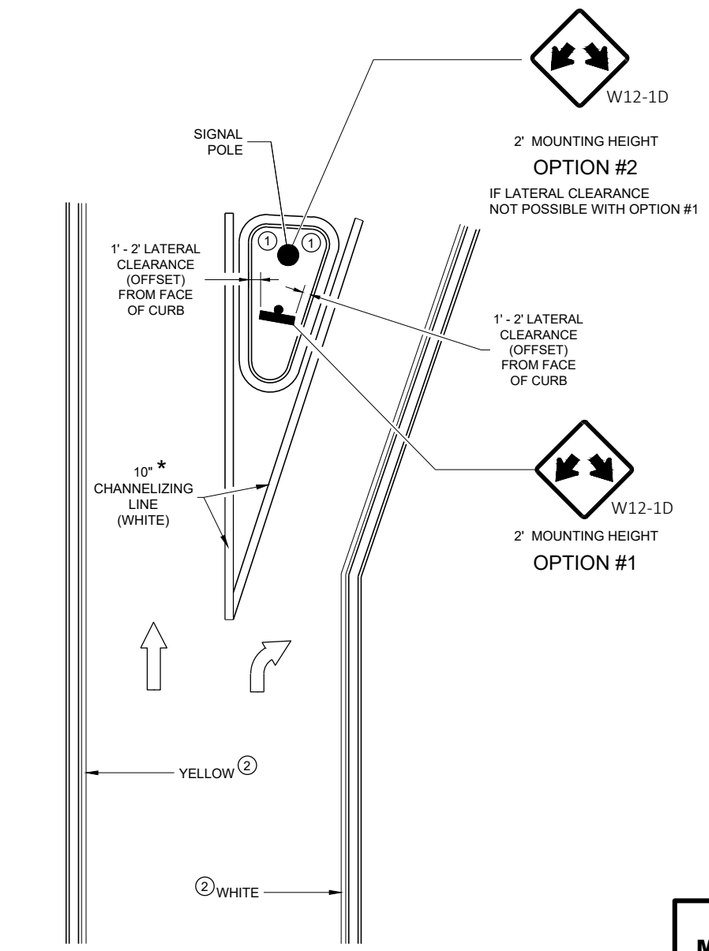
1. MARK CURB NOSES YELLOW.
2. MARK ACCORDING TO TABLE.

DIRECTION OF TRAVEL



* CONFIRM MARKING LINE WIDTH WITH THE MISCELLANEOUS QUANTITIES

LEFT TURN & MEDIAN ISLAND



RIGHT TURN ISLAND

MEDIAN PAVEMENT MARKINGS, DOUBLE ARROW WARNING SIGN PLACEMENT

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
May 2023 — DATE
/S/ Jeannie Silver — ROADWAY STANDARDS DEVELOPMENT UNIT SUPERVISOR

FHWA

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SDD 15C18-08c

GENERAL NOTES

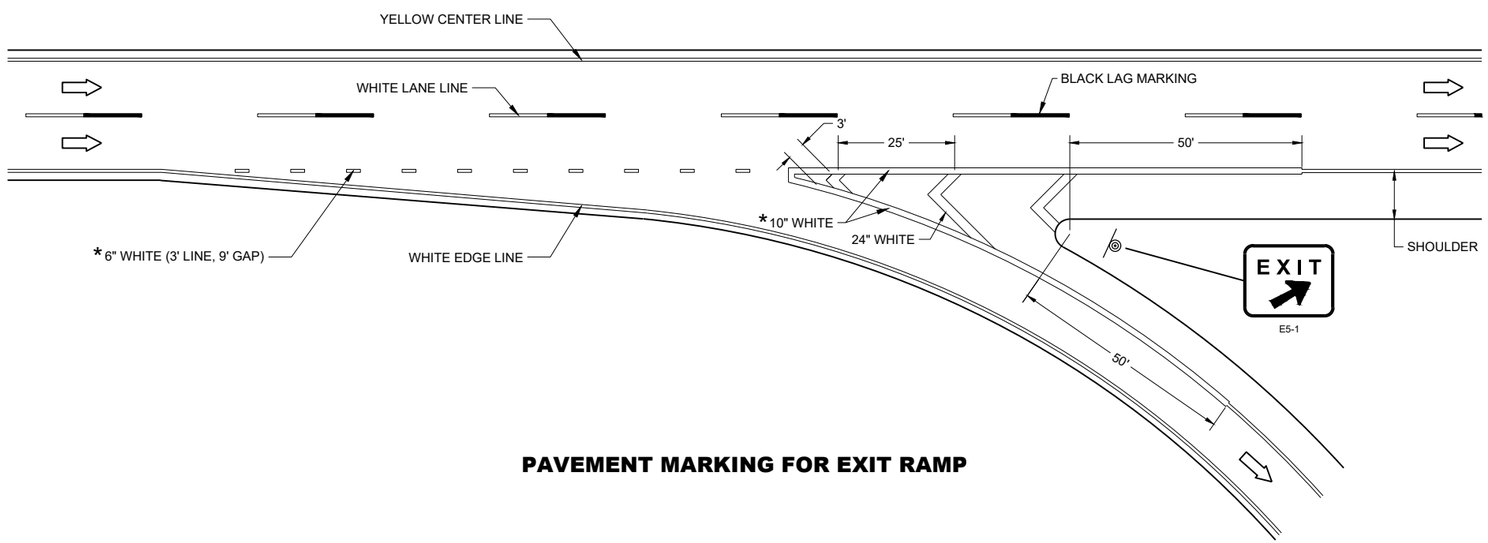
PLACE GROOVE 3 INCHES LEFT OF JOINT.

LEGEND

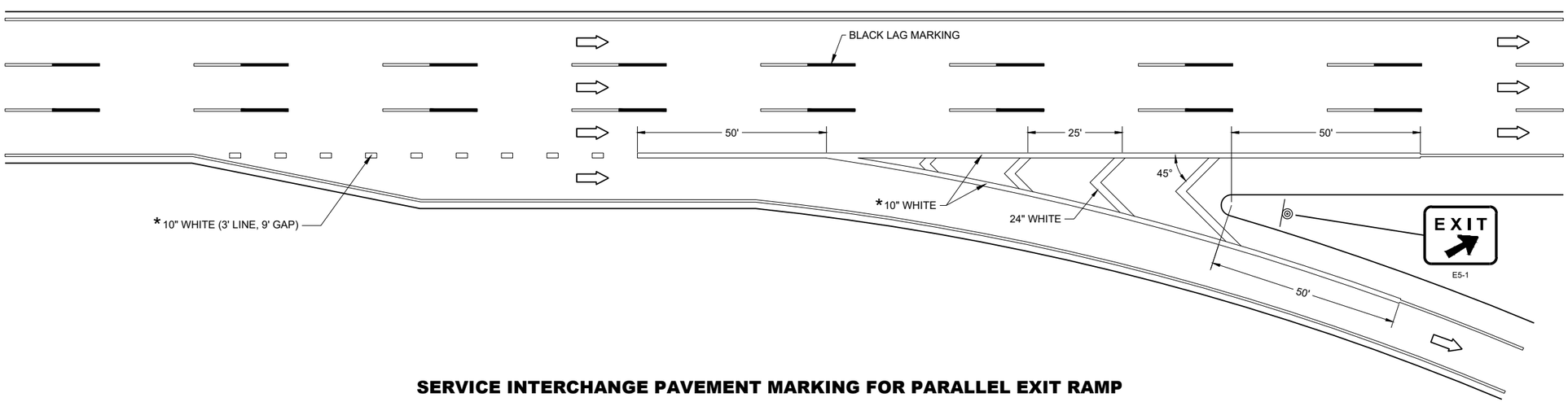
SIGN ON PERMANENT SUPPORT

DIRECTION OF TRAVEL

* CONFIRM MARKING LINE WIDTH WITH THE MISCELLANEOUS QUANTITIES



PAVEMENT MARKING FOR EXIT RAMP



SERVICE INTERCHANGE PAVEMENT MARKING FOR PARALLEL EXIT RAMP

PAVEMENT MARKING, EXIT RAMP AND PARALLEL EXIT RAMP

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

6
SDD 15C31-06a

GENERAL NOTES

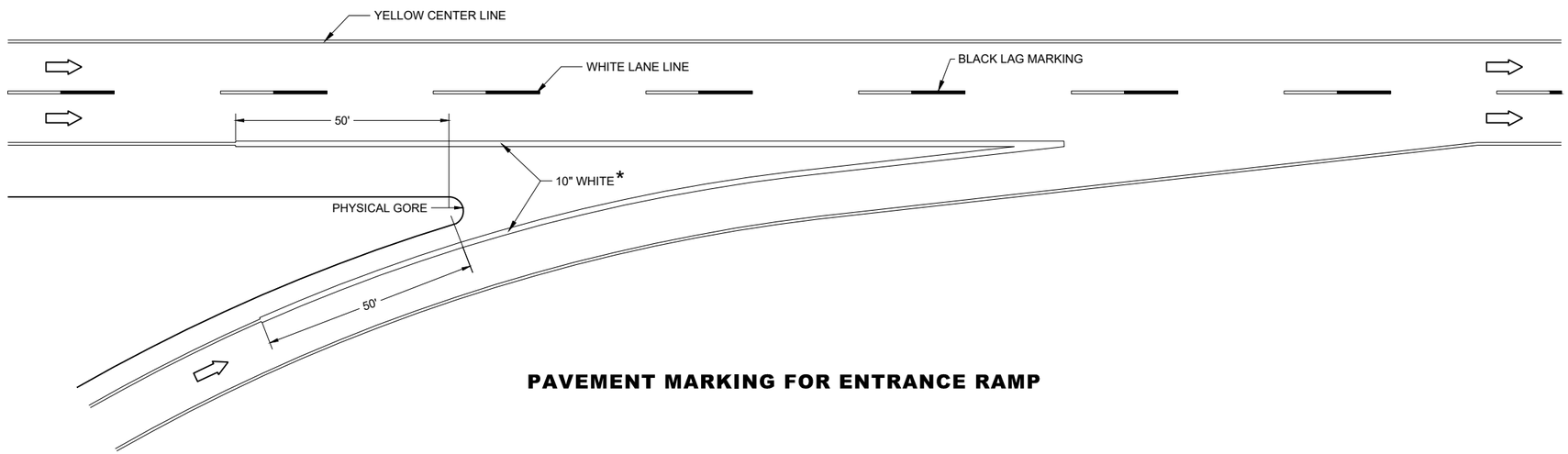
PLACE GROOVE 3 INCHES LEFT OF JOINT.

(1) ½ LENGTH OF FULL WIDTH ACCELERATION LANE.

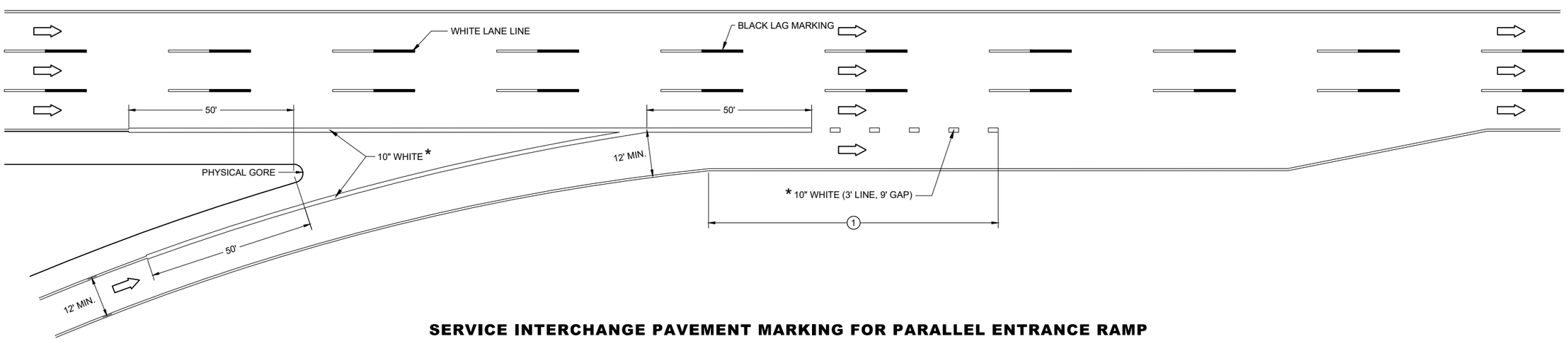
LEGEND

DIRECTION OF TRAVEL

* CONFIRM MARKING LINE WIDTH WITH THE MISCELLANEOUS QUANTITIES



PAVEMENT MARKING FOR ENTRANCE RAMP



SERVICE INTERCHANGE PAVEMENT MARKING FOR PARALLEL ENTRANCE RAMP

6

6

SDD 15C31-06c

SDD 15C31-06c

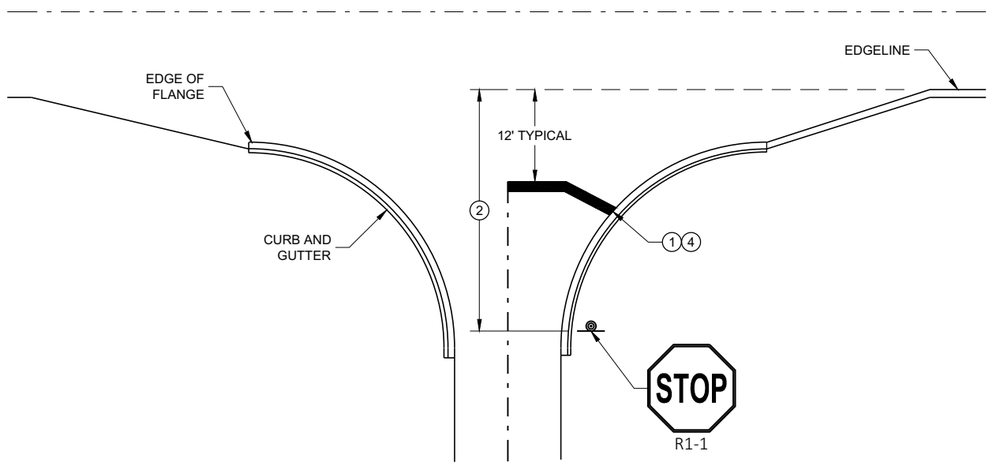
PAVEMENT MARKING, ENTRANCE RAMP AND PARALLEL ENTRANCE RAMP

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

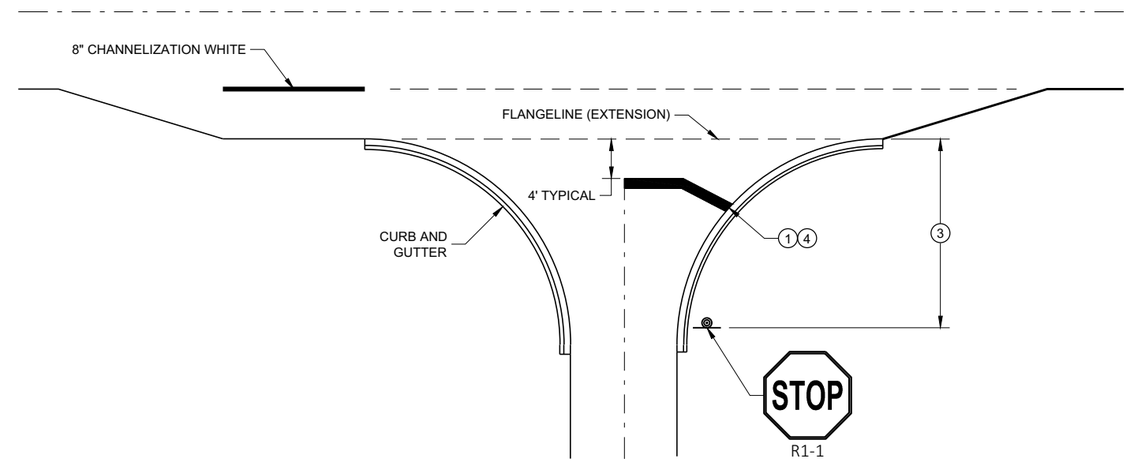
GENERAL NOTES

STOP SIGN SHALL BE PLACED A MINIMUM OF 6 FEET TO A MAXIMUM OF 50 FEET FROM THE EDGELINE LOCATION.

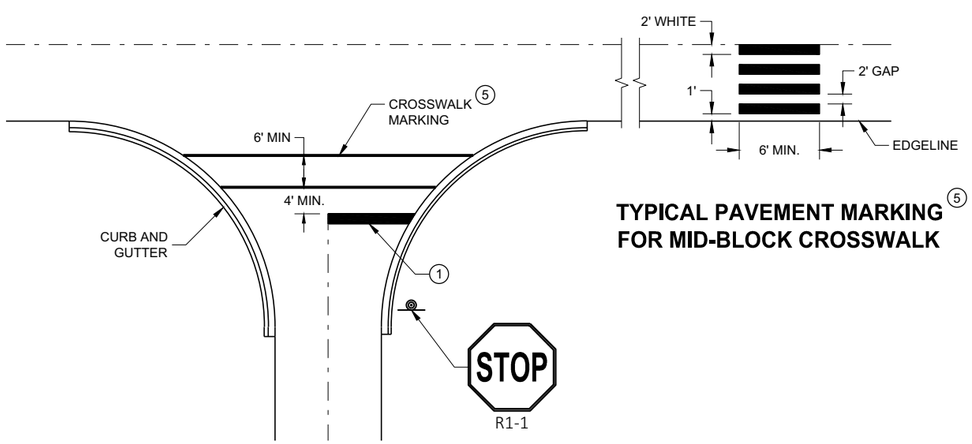
1. 18-INCH STOP LINES MAY BE DELETED OR ADDED BY THE REGION MARKING ENGINEER BASED ON VISIBILITY AND SIGHT LINES.
2. NO STOP LINE IS REQUIRED IF STOP SIGN IS LESS THAN OR EQUAL TO 40 FEET FROM THE EDGELINE.
3. NO STOP LINE IS REQUIRED IF STOP SIGN IS LESS THAN OR EQUAL TO 30 FEET FROM THE FLANGELINE EXTENSION.
4. MOVE CLOSER TO THE EDGE OF TRAVEL LINE AS NEEDED FOR VISIBILITY AND SIGHT LINES (NO CLOSER THAN 4 FEET).
5. LADDER BAR CROSSWALKS SHOULD ONLY BE USED FOR MID BLOCK CROSSINGS. USE 2 - 6" TRANSVERSE LINES INSTEAD.



TYPICAL STOP LINE PAVEMENT MARKING WITH CURB AND GUTTER

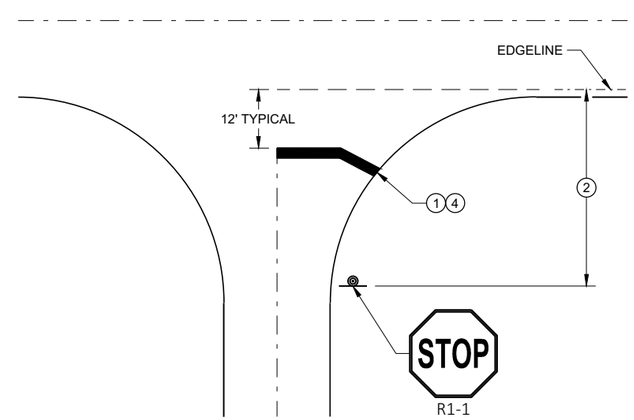


TYPICAL STOP LINE PAVEMENT MARKING FOR SIDEROADS WITH RIGHT TURN LANE



TYPICAL STOP LINE PAVEMENT MARKING FOR SIDEROADS WITH CROSSWALK MARKING

TYPICAL PAVEMENT MARKING 5 FOR MID-BLOCK CROSSWALK



TYPICAL STOP LINE PAVEMENT MARKING WITHOUT CURB AND GUTTER

STOP LINE AND CROSSWALK PAVEMENT MARKING

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
November 2019 — DATE
/S/ Matthew Rauch — STATE SIGNING AND MAR ENGINEER
FHWA

6

SDD 15C33 - 04

LEGEND

- TYPE III BARRICADE
- TYPE III BARRICADE WITH ATTACHED SIGN
- TRAFFIC CONTROL DRUM
- SIGN ON PERMANENT SUPPORT
- TYPE "A" WARNING LIGHT (FLASHING)
- DIRECTION OF TRAFFIC

GENERAL NOTES

THIS RAMP CLOSURE DETAIL IS TYPICAL FOR CLOSING A RIGHT SIDE EXIT RAMP. FOR A LEFT SIDE EXIT RAMP, REVERSE THE TRAFFIC CONTROL.

THE EXACT NUMBER, LOCATION, AND SPACING OF ALL SIGNS AND DEVICES SHALL BE ADJUSTED TO FIT FIELD CONDITIONS AS APPROVED BY THE ENGINEER.

THE SPACING BETWEEN TRAFFIC CONTROL SIGNS SHOULD BE ADJUSTED TO NOT CONFLICT WITH AND SHOULD PROVIDE A MINIMUM OF 200 FEET (500 FEET DESIRABLE) CLEARANCE TO EXISTING SIGNS THAT WILL REMAIN IN PLACE.

ALL SIGNS ARE 48" X 48" UNLESS OTHERWISE NOTED.

SIGNS THAT WILL BE IN PLACE LESS THAN 7 CONTINUOUS DAYS AND NIGHTS MAY BE MOUNTED ON PORTABLE SUPPORTS.

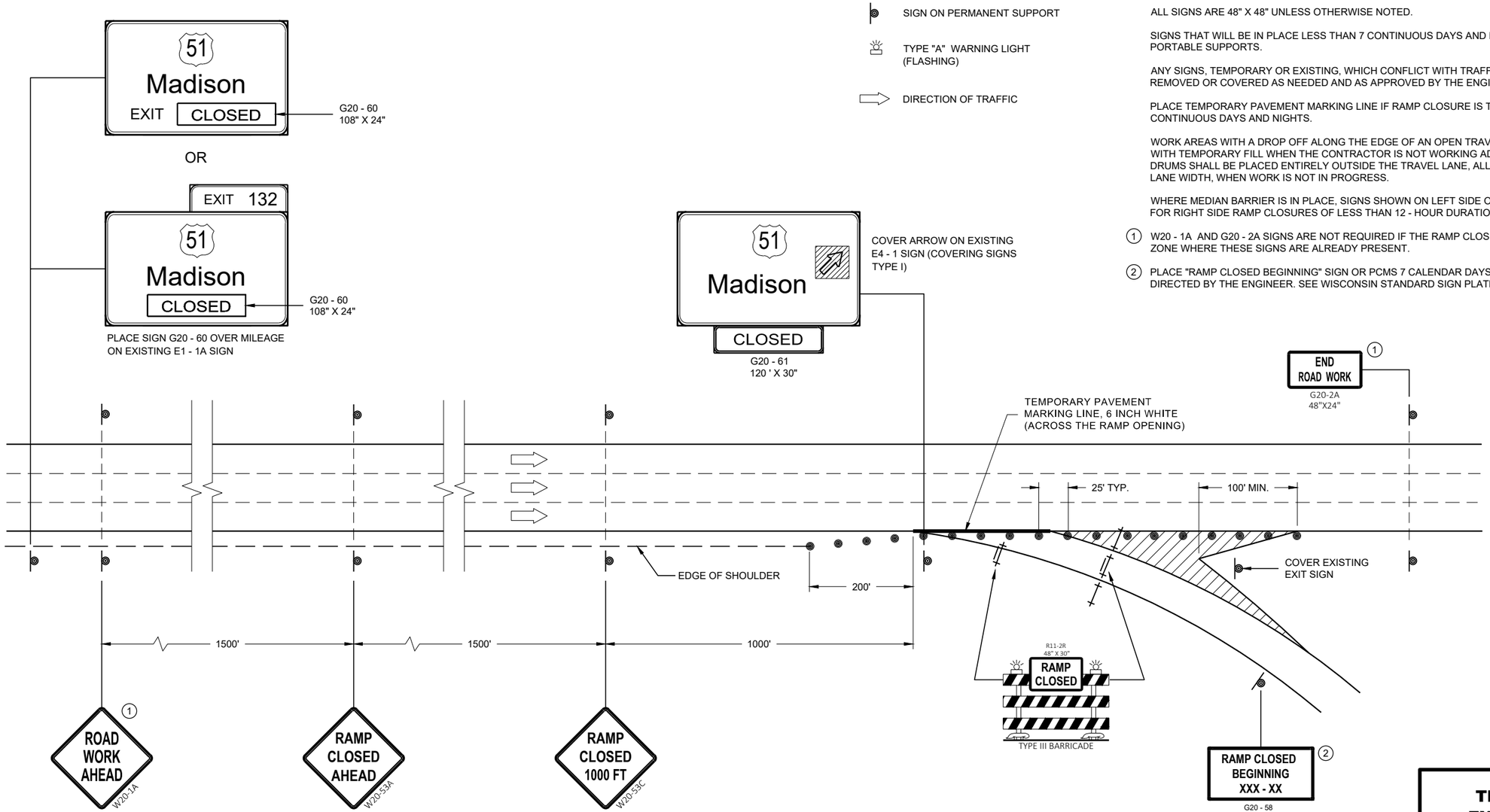
ANY SIGNS, TEMPORARY OR EXISTING, WHICH CONFLICT WITH TRAFFIC CONTROL "IN USE" SHALL BE REMOVED OR COVERED AS NEEDED AND AS APPROVED BY THE ENGINEER.

PLACE TEMPORARY PAVEMENT MARKING LINE IF RAMP CLOSURE IS TO BE IN PLACE 4 OR MORE CONTINUOUS DAYS AND NIGHTS.

WORK AREAS WITH A DROP OFF ALONG THE EDGE OF AN OPEN TRAVEL LANE SHALL BE LEVELED WITH TEMPORARY FILL WHEN THE CONTRACTOR IS NOT WORKING ADJACENT TO THE TRAVEL LANE. DRUMS SHALL BE PLACED ENTIRELY OUTSIDE THE TRAVEL LANE, ALLOWING THE FULL UNOBSTRUCTED LANE WIDTH, WHEN WORK IS NOT IN PROGRESS.

WHERE MEDIAN BARRIER IS IN PLACE, SIGNS SHOWN ON LEFT SIDE OF ROADWAY MAY BE OMITTED FOR RIGHT SIDE RAMP CLOSURES OF LESS THAN 12 - HOUR DURATION.

1. W20 - 1A AND G20 - 2A SIGNS ARE NOT REQUIRED IF THE RAMP CLOSURE IS WITHIN A LARGER WORK ZONE WHERE THESE SIGNS ARE ALREADY PRESENT.
2. PLACE "RAMP CLOSED BEGINNING" SIGN OR PCMS 7 CALENDAR DAYS PRIOR TO CLOSURE OR AS DIRECTED BY THE ENGINEER. SEE WISCONSIN STANDARD SIGN PLATES FOR SIGN LAYOUT.



OR

PCMS MESSAGING

FRAME 1	FRAME 2
RAMP TO CLOSE	XXXDAY XX XX XX

TRAFFIC CONTROL, EXIT RAMP CLOSURE

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
May 2023 — DATE
/S/ Andrew Heidtke — ROADWAY STANDARDS DEVE ENGINEER

FHWA

LEGEND

- SIGN ON PERMANENT SUPPORT
- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE "C" STEADY BURN LIGHT
- TYPE III BARRICADE WITH ATTACHED SIGN
- TYPE "A" WARNING LIGHT (FLASHING)
- FLASHING ARROW BOARD
- DIRECTION OF TRAFFIC
- REMOVE PAVEMENT MARKING (SEE GENERAL NOTES)
- WORK AREA

GENERAL NOTES

FOR WORK ON ROADWAYS WITH SPEEDS GREATER THAN 45MPH, USE SDD 15D12.

THIS LANE CLOSURE DETAIL IS TYPICAL FOR CLOSING THE LEFT LANE. FOR A RIGHT LANE CLOSURE, REVERSE THE TRAFFIC CONTROL.

THIS DETAIL MAY BE USED FOR ROADWAYS WITH EITHER TWO OR THREE LANES IN EACH DIRECTION.

ALL SIGNS ARE 48"X48" UNLESS OTHERWISE NOTED. IF NECESSARY DUE TO SPACE CONSTRAINTS IN URBAN AREAS, 36"X 36" SIGNS MAY BE USED IF APPROVED BY REGIONAL TRAFFIC UNIT.

"WO" SIGN IS THE SAME AS "W" SIGN EXCEPT THE BACKGROUND IS ORANGE.

ANY SIGNS TEMPORARY OR EXISTING, WHICH CONFLICT WITH THE TRAFFIC CONTROL "IN USE" SHALL BE REMOVED OR COVERED AS NEEDED AND AS APPROVED BY THE ENGINEER. NO WARNING LIGHTS SHALL BE WORKING ON COVERED OR "DOWNED" SIGNS.

SIGNS THAT WILL BE IN PLACE LESS THAN 7 CONTINUOUS DAYS AND NIGHTS OR THAT WILL BE PLACED IN A CLOSED LANE MAY BE MOUNTED ON TEMPORARY SUPPORTS.

THE EXACT NUMBER, LOCATION, AND SPACING OF ALL SIGNS AND DEVICES SHALL BE ADJUSTED TO FIT FIELD CONDITIONS AS APPROVED BY THE ENGINEER.

THE SPACING BETWEEN TRAFFIC CONTROL SIGNS SHOULD BE ADJUSTED TO NOT CONFLICT WITH AND TO PROVIDE A MINIMUM OF 200 FEET (500' DESIRABLE) DISTANCE TO EXISTING SIGNS THAT WILL REMAIN IN PLACE

W20-1A, G20-1 AND G20-2A SIGNS ARE NOT REQUIRED IF THE LANE CLOSURE IS WITHIN A LARGER WORK ZONE WHERE THESE SIGNS ARE ALREADY PRESENT.

REMOVE PAVEMENT MARKINGS AND PLACE TEMPORARY PAVEMENT MARKING LINE IF LANE CLOSURE IS TO BE IN PLACE FOR 4 OR MORE CONTINUOUS DAYS AND NIGHTS.

CONSIDER GEOMETRICS WHEN LOCATING SIGNS AND ARROW BOARDS SO THE APPROACHING DRIVER HAS A CLEAR VIEW OF THE ARROW BOARDS AND LANE CLOSURE DRUMS FOR A MINIMUM 1500 FEET IN FRONT OF DRUMS.

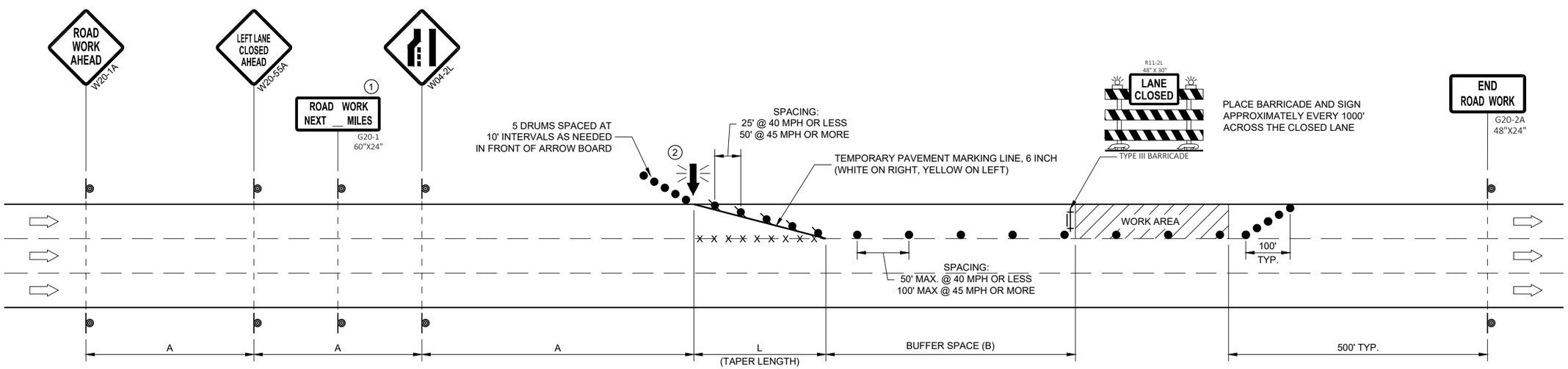
BARRICADES IN A CLOSED LANE THAT MUST BE MOVED FOR A WORK OPERATION SHALL BE IMMEDIATELY REESTABLISHED UPON COMPLETION OF THE OPERATION, OR FOR CONTINUING OPERATIONS, AT THE END OF EACH WORKING DAY.

CHANNELIZING DEVICES PLACED ADJACENT TO WORK AREA SHALL BE PULLED BACK FROM THE TRAVEL LANE WHEN WORK IS NOT IN PROGRESS.

WARNING LIGHTS ARE NOT REQUIRED IF THE LANE CLOSURE IS A DAYTIME ONLY OPERATION.

(1) OMIT G20-1 SIGNS IF LENGTH OF WORK AREA IS 2 MILES OR LESS.

(2) WHERE THE SHOULDER OR TERRACE HAS INSUFFICIENT SPACE TO PLACE THE ARROW BOARD AS SHOWN, PLACE THE ARROW BOARD AT THE END OF THE TAPER.



POSTED SPEED LIMIT PRIOR TO WORK STARTING (MPH)	ADVANCE WARNING SIGN SPACING (A) FEET	TAPER LENGTH (12 FT. LANE) (L) FEET	BUFFER SPACE (B) FEET
25	200'	125'	55'
30	200'	180'	85'
35	350'	245'	120'
40	350'	320'	170'
45	500'	540'	220'

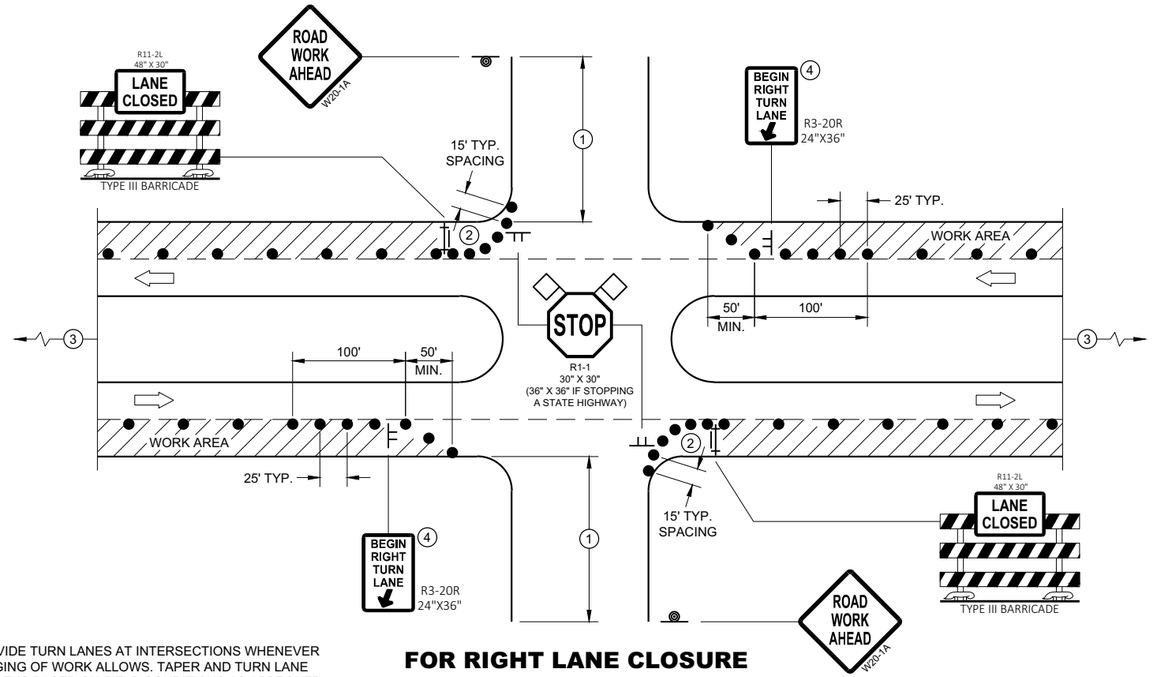
TRAFFIC CONTROL, SINGLE LANE CLOSURE, DIVIDED NON-FREEWAY/EXPRESSWAY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
May 2023 — DATE
/S/ Andrew Heidtke — WORK ZONE ENGINEE
FHWA

6

SDD 15D20-07a



PROVIDE TURN LANES AT INTERSECTIONS WHENEVER STAGING OF WORK ALLOWS. TAPER AND TURN LANE LENGTHS BASED ON FIELD CONDITIONS AS APPROVED BY THE ENGINEER.

FOR RIGHT LANE CLOSURE AT INTERSECTION

GENERAL NOTES

ALL SIGNS ARE 48"X48" UNLESS OTHERWISE NOTED. IF NECESSARY DUE TO SPACE CONSTRAINTS IN URBAN AREAS, 36" X 36" MAY BE USED IF APPROVED BY THE DISTRICT TRAFFIC UNIT.

"WO" SIGN IS THE SAME AS "W" SIGN EXCEPT THE BACKGROUND IS ORANGE.

ANY SIGNS TEMPORARY OR EXISTING, WHICH CONFLICT WITH THE TRAFFIC CONTROL "IN USE" SHALL BE REMOVED OR COVERED AS NEEDED AND AS APPROVED BY THE ENGINEER. NO WARNING LIGHTS SHALL BE WORKING ON COVERED OR "DOWNED" SIGNS.

THE EXACT NUMBER, LOCATION, AND SPACING OF ALL SIGNS AND DEVICES SHALL BE ADJUSTED TO FIT FIELD CONDITIONS AS APPROVED BY THE ENGINEER.

THE SPACING BETWEEN TRAFFIC CONTROL SIGNS SHOULD BE ADJUSTED TO NOT CONFLICT WITH AND TO PROVIDE A MINIMUM OF 200 FEET (500' DESIRABLE) DISTANCE TO EXISTING SIGNS THAT WILL REMAIN IN PLACE

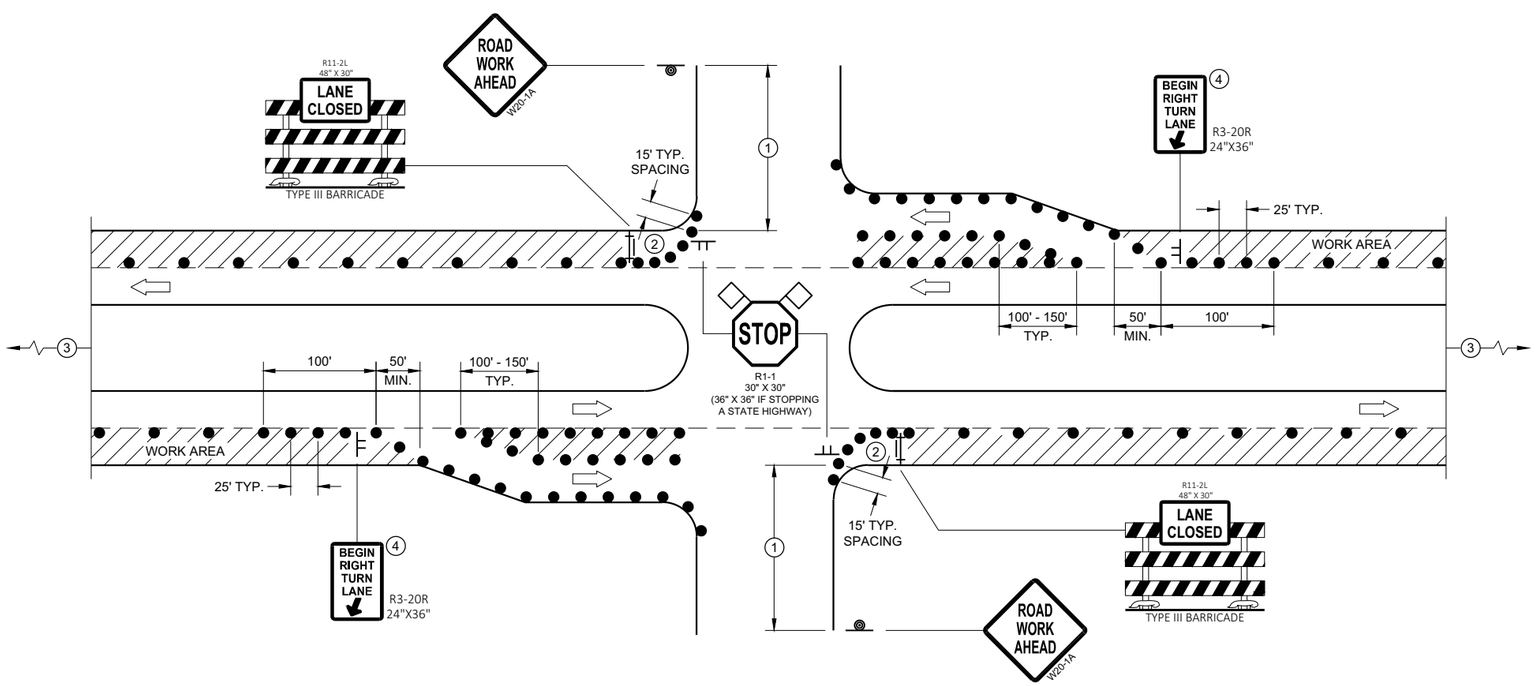
SIGN LAYOUTS SHALL BE IN ACCORDANCE WITH THE FHWA'S MANUAL OF STANDARD HIGHWAY SIGNS OR THE WISCONSIN STANDARD SIGN PLATES.

SIGNS THAT WILL REMAIN IN PLACE LESS THAN 7 CONTINUOUS DAYS AND NIGHTS OR THAT WILL BE PLACED IN A CLOSED LANE MAY BE MOUNTED ON PORTABLE SUPPORTS.

BARRICADES IN A CLOSED LANE THAT MUST BE MOVED FOR A WORK OPERATION SHALL BE IMMEDIATELY REESTABLISHED UPON COMPLETION OF THE OPERATION, OR FOR CONTINUING OPERATIONS, AT THE END OF EACH WORKING DAY.

CHANNELIZING DEVICES PLACED ADJACENT TO WORK AREA SHALL BE PULLED BACK FROM THE TRAVEL LANE WHEN WORK IS NOT IN PROGRESS.

1. 500' TYPICAL OR AT LAST INTERSECTION, WHICHEVER IS CLOSER.
   350' IF 35 - 40 MPH.
   200' IF 25 - 30 MPH.
2. ALSO USE BARRICADE AND 15 FOOT TYPICAL DRUM SPACING AT COMMERCIAL DRIVEWAYS
3. SEE SEPARATE LANE CLOSURE DETAIL FOR ADDITIONAL TRAFFIC CONTROL.
4. MINIMUM MOUNTING HEIGHT OF 5 FEET FROM EDGE OF PAVEMENT (AT EDGE LINE LOCATION) TO BOTTOM OF SIGN.



FOR RIGHT LANE CLOSURE AT INTERSECTION (WITH RIGHT TURN BAY OPEN)

LEGEND

- SIGN ON TEMPORARY SUPPORT
- SIGN ON PERMANENT SUPPORT
- TRAFFIC CONTROL DRUM
- TYPE III BARRICADE WITH ATTACHED SIGN
- DIRECTION OF TRAFFIC
- FLAGS, 16" X 16" MIN., ORANGE
- WORK AREA

TRAFFIC CONTROL, INTERSECTION WITHIN SINGLE RIGHT LANE CLOSURE

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTAT

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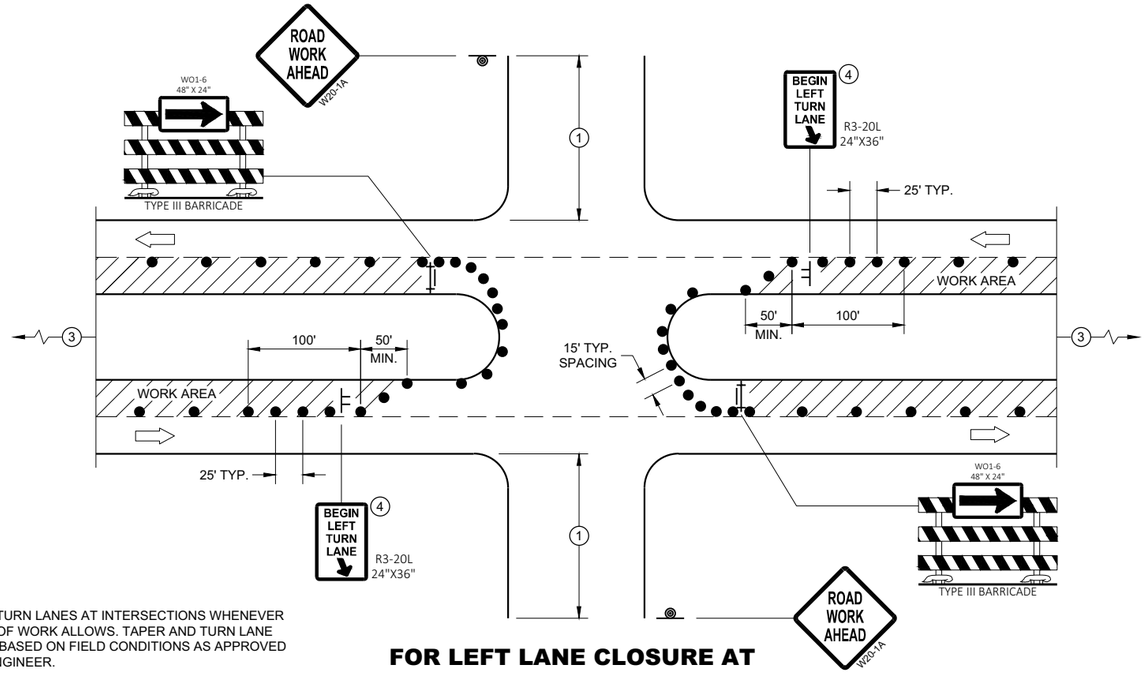
SDD 15D21 - 07a



PROVIDE TURN LANES AT INTERSECTIONS WHENEVER STAGING OF WORK ALLOWS. TAPER AND TURN LANE LENGTHS BASED ON FIELD CONDITIONS AS APPROVED BY THE ENGINEER.

FOR LEFT LANE CLOSURE AT INTERSECTION OR MEDIAN OPENING

GENERAL NOTES

ALL SIGNS ARE 48"X48" UNLESS OTHERWISE NOTED. IF NECESSARY DUE TO SPACE CONSTRAINTS IN URBAN AREAS, 36" X 36" MAY BE USED IF APPROVED BY THE DISTRICT TRAFFIC UNIT.

"WO" SIGN IS THE SAME AS "W" SIGN EXCEPT THE BACKGROUND IS ORANGE.

ANY SIGNS TEMPORARY OR EXISTING, WHICH CONFLICT WITH THE TRAFFIC CONTROL "IN USE" SHALL BE REMOVED OR COVERED AS NEEDED AND AS APPROVED BY THE ENGINEER. NO WARNING LIGHTS SHALL BE WORKING ON COVERED OR "DOWNED" SIGNS.

THE EXACT NUMBER, LOCATION, AND SPACING OF ALL SIGNS AND DEVICES SHALL BE ADJUSTED TO FIT FIELD CONDITIONS AS APPROVED BY THE ENGINEER.

THE SPACING BETWEEN TRAFFIC CONTROL SIGNS SHOULD BE ADJUSTED TO NOT CONFLICT WITH AND TO PROVIDE A MINIMUM OF 200 FEET (500' DESIRABLE) DISTANCE TO EXISTING SIGNS THAT WILL REMAIN IN PLACE

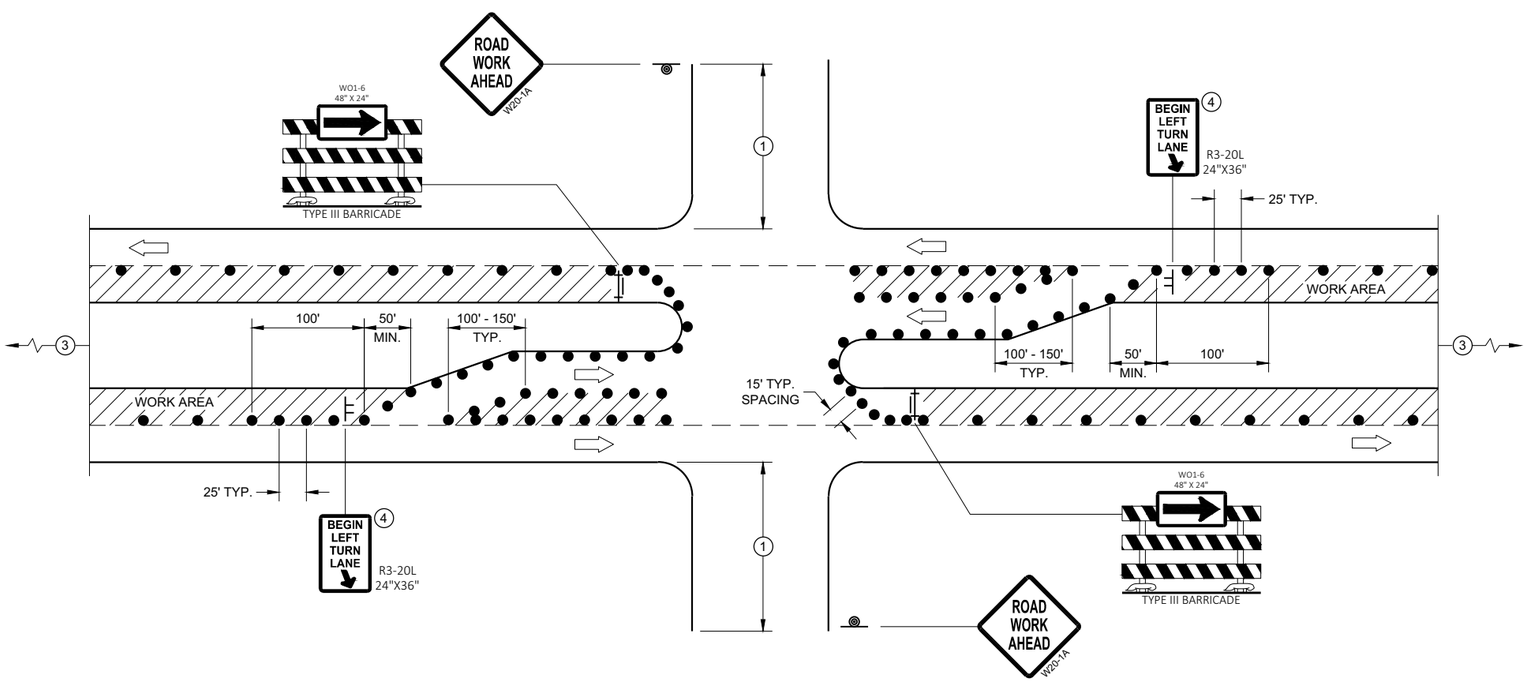
SIGN LAYOUTS SHALL BE IN ACCORDANCE WITH THE FHWA'S MANUAL OF STANDARD HIGHWAY SIGNS OR THE WISCONSIN STANDARD SIGN PLATES.

SIGNS THAT WILL REMAIN IN PLACE LESS THAN 7 CONTINUOUS DAYS AND NIGHTS OR THAT WILL BE PLACED IN A CLOSED LANE MAY BE MOUNTED ON PORTABLE SUPPORTS.

BARRICADES IN A CLOSED LANE THAT MUST BE MOVED FOR A WORK OPERATION SHALL BE IMMEDIATELY REESTABLISHED UPON COMPLETION OF THE OPERATION, OR FOR CONTINUING OPERATIONS, AT THE END OF EACH WORKING DAY.

CHANNELIZING DEVICES PLACED ADJACENT TO WORK AREA SHALL BE PULLED BACK FROM THE TRAVEL LANE WHEN WORK IS NOT IN PROGRESS.

1. 500' TYPICAL OR AT LAST INTERSECTION, WHICHEVER IS CLOSER.
   350' IF 35 - 40 MPH.
   200' IF 25 - 30 MPH.
2. ALSO USE BARRICADE AND 15 FOOT TYPICAL DRUM SPACING AT COMMERCIAL DRIVEWAYS
3. SEE SEPARATE LANE CLOSURE DETAIL FOR ADDITIONAL TRAFFIC CONTROL.
4. MINIMUM MOUNTING HEIGHT OF 5 FEET FROM EDGE OF PAVEMENT (AT EDGE LINE LOCATION) TO BOTTOM OF SIGN.



FOR LEFT LANE CLOSURE AT INTERSECTION OR MEDIAN OPENING (WITH LEFT TURN BAY OPEN)

LEGEND

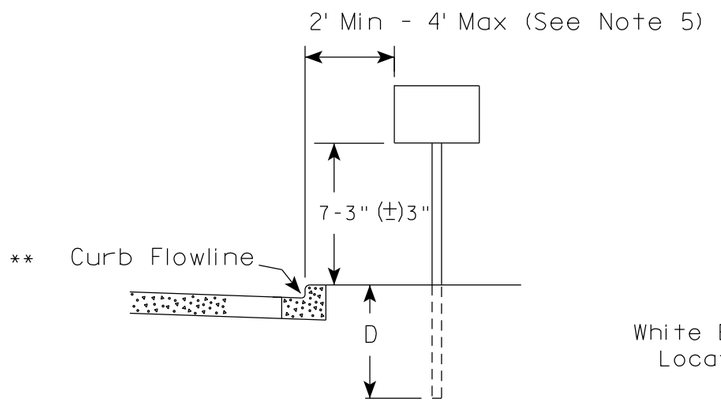
- SIGN ON TEMPORARY SUPPORT
- SIGN ON PERMANENT SUPPORT
- TRAFFIC CONTROL DRUM
- TYPE III BARRICADE WITH ATTACHED SIGN
- DIRECTION OF TRAFFIC
- FLAGS, 16" X 16" MIN., ORANGE
- WORK AREA

TRAFFIC CONTROL, INTERSECTION WITHIN SINGLE LEFT LANE CLOSURE

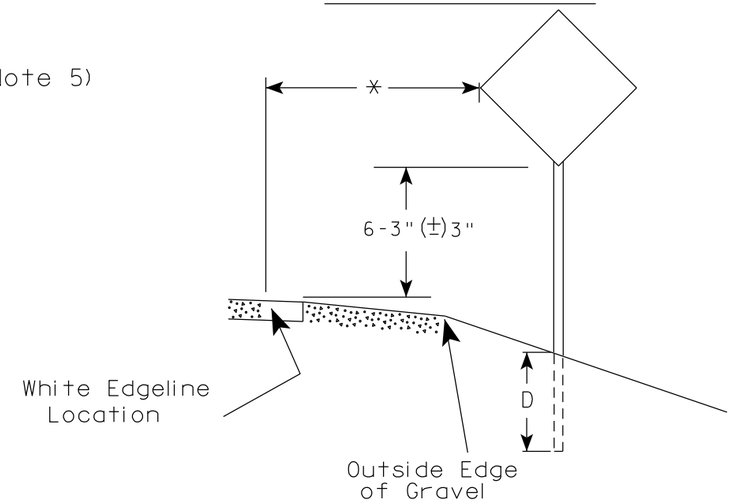
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

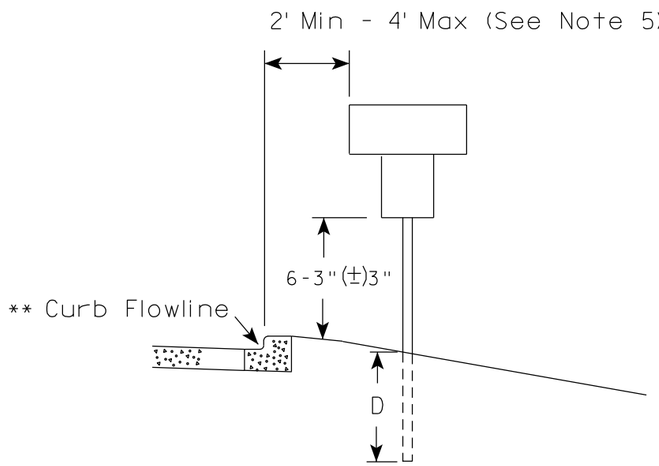
APPROVED
August 2020 — DATE
/S/ Andrew Heidtke — WORK ZONE ENGINEER
FHWA

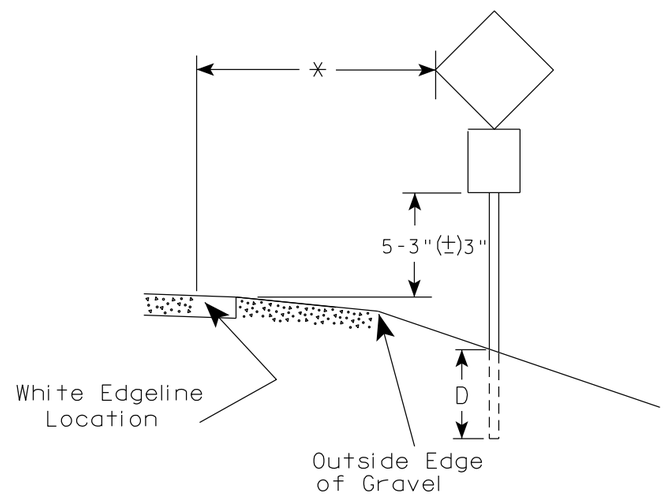
URBAN AREA



RURAL AREA (See Note 2)







** The existence of curb and gutter does not in itself mandate the vertical clearance illustrated. That height is typically measured where there is sidewalk adjacent to the roadway or parking is permitted. In the absence of sidewalk vertical clearance is measured from the top of the curb. Offset of signs is measured from the flow line.

* 6 feet from edge of a paved shoulder or 12 feet from the edge of pavement (edge line location) or 2 feet from outside edge of gravel, whichever is greater unless directed by project engineer.

GENERAL NOTES

1. Signs wider than 4 feet or 20 sq.ft or larger, shall be mounted on multiple posts. Refer to plate A4-4.
2. If signs are mounted on or behind barrier wall, see A4-10 sign plate.
   The Double Arrow sign (W12-1D) shall be mounted at a height of 2'-3" (±) 3". The Chevron sign (W1-8), Roundabout Chevron panel (R6-4B), Enhanced Reference Markers, Clearance Markers (W5-52), Mile Markers (D10 series), In Road Object Markers (W5-54) & End of Road Markers (W5-56) shall be mounted at a height of 4'-3" (±) 3".
3. For expressways and freeways, mounting height is 7'- 3" (±) 3" or 6'-3" (±) 3" depending upon existence of a sub-sign.
4. Minimum mounting height for signs mounted on traffic signal poles is 5'- 3" (±) 3".
5. Offset distance shall be consistent with existing signs or consistent throughout length of project.
6. Folding signs shall be mounted at a height of 5'-3" (±) 3" or as directd by the Engineer.

POST EMBEDMENT DEPTH

Area of Sign Installation (Sq. Ft.)	D (Min)
20 or Less	4'
Greater than 20	5'

TYPICAL INSTALLATION OF PERMANENT TYPE II SIGNS ON SINGLE POSTS

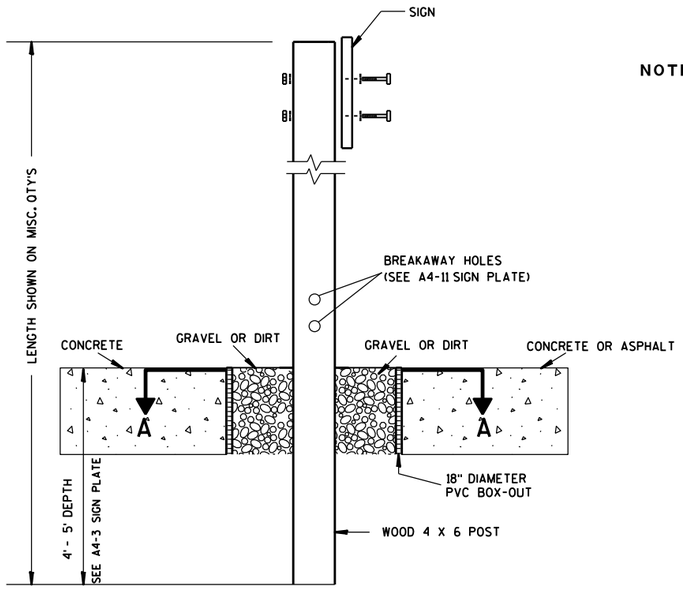
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 12/6/23 PLATE NO. A4-3.23

7 7

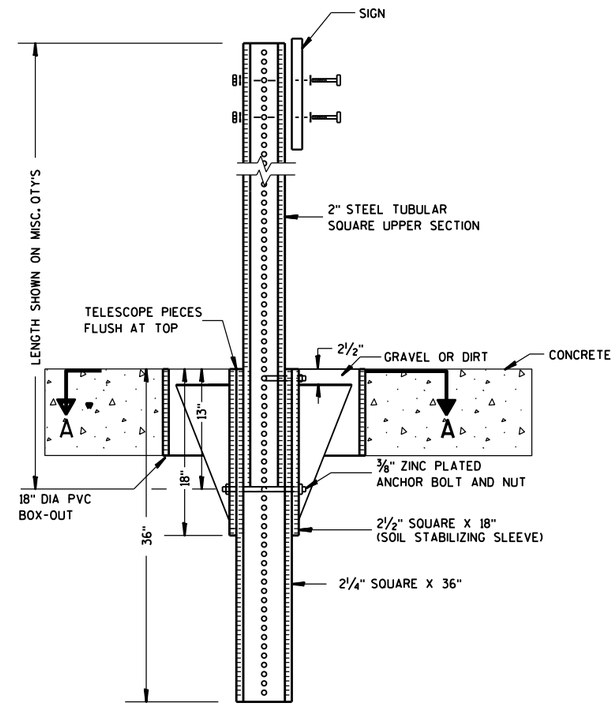
PROJECT NO:	HWY:	COUNTY:		SHEET NO: 132	E



ELEVATION VIEW

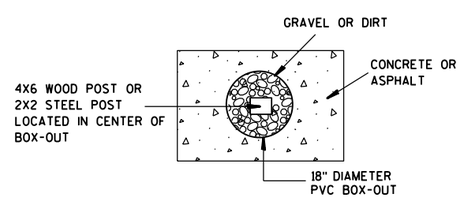
DETAIL OF WOOD 4 X 6 SIGN POST IN BOX-OUT

NOTES:
1. ALL MATERIAL TO BE APPROVED BY ENGINEER PRIOR TO INSTALLATION
2. SEE SIGN PLATE A4-8 FOR SIGN HARDWARE REQUIREMENTS
3. 18 INCH X 18 INCH SQUARE BOX-OUTS MAY BE USED FOR INSTALLATIONS IN EXISTING CONCRETE OR ASPHALT LOCATIONS.



ELEVATION VIEW

DETAIL OF STEEL 2 X 2 SIGN POST IN BOX-OUT



PLAN VIEW

FOR NEW CONCRETE/ASPHALT INSTALLATIONS

SIGN POST
BOX-OUTS
A4-3B

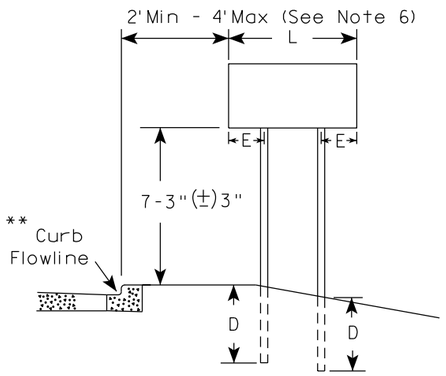
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

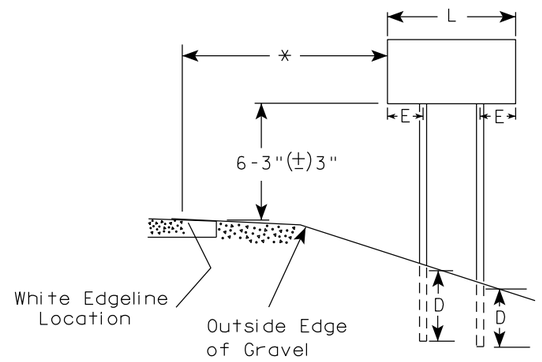
DATE 1/27/14 PLATE NO. A4-3B.1

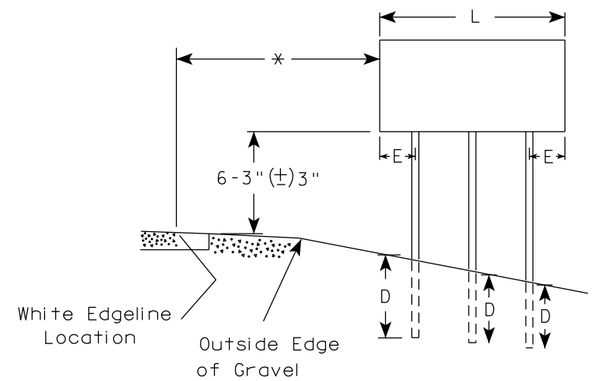
PROJECT NO:	HWY:	COUNTY:		SHEET NO:	E

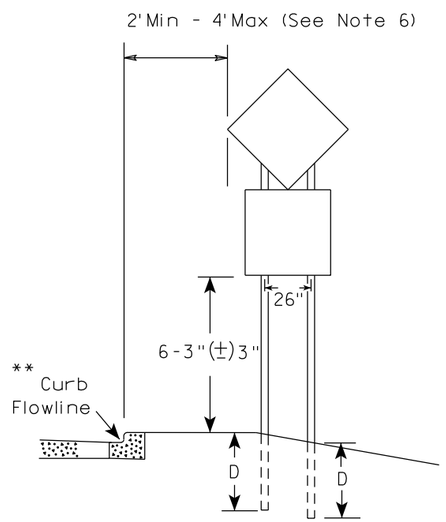
URBAN AREA



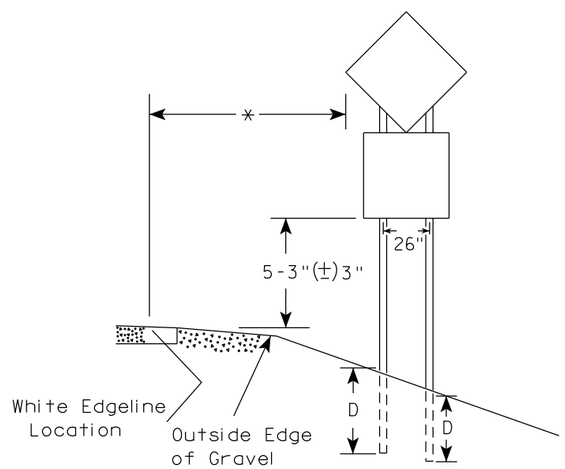
RURAL AREA (See Note 3)







48" DIAMOND WARNING SIGN



48" DIAMOND WARNING SIGN

GENERAL NOTES

1. For 3 or 4 post installations, individual post spacing shall be greater than 3'-6".
2. See tables below for required number of posts.
3. For expressways and freeways, mounting height is 7'-3" (±) 3" or 6'-3" (±) 3" depending upon existence of sub-sign.
4. The (±) tolerance for mounting height is 3 inches.
5. J-Assemblies are considered to be one sign for mounting height.
6. Offset distance shall be consistent with existing signs or consistent throughout length of project.
7. Folding signs shall be mounted at a height of 5'-3" (±) 3" or as directed by the engineer.
8. The Double Arrow sign (W12-1) shall be mounted at a height of 2'-3" (±) 3". The Chevron sign (W1-8), Roundabout Chevron panel (R6-4B), Clearance Markers (W5-52), Mile Markers (D10 series), In Road Object Markers (W5-54) & End of Road Markers (W5-56) shall be mounted at a height of 4"-3" (±) 3".

* 6 feet from edge of a paved shoulder or 12 feet from the edge of pavement (edge line location) or 2 feet from outside edge of gravel, whichever is greater unless directed by project engineer.

** The existence of curb and gutter does not in itself mandate the vertical clearance illustrated. That height is typically measured where there is sidewalk adjacent to the roadway or parking is permitted. In the absence of sidewalk vertical clearance is measured from the top of the curb. Offset of signs is measured from the flow line.

*** See A4-3 sign plate for signs 4' or less in width and less than 20 S.F. in area.

SIGN SHAPE OTHER THAN DIAMOND (TWO POSTS REQUIRED)	
L	E
*** Greater than 48" Less than 60"	12"
60" to 108"	L/5

SIGN SHAPE OTHER THAN DIAMOND (THREE POSTS REQUIRED)	
L	E
Greater than 108" to 144"	12"

POST EMBEDMENT DEPTH

Area of Sign Installation (Sq. Ft.)	D (Min)
20 or Less	4'
Greater than 20	5'

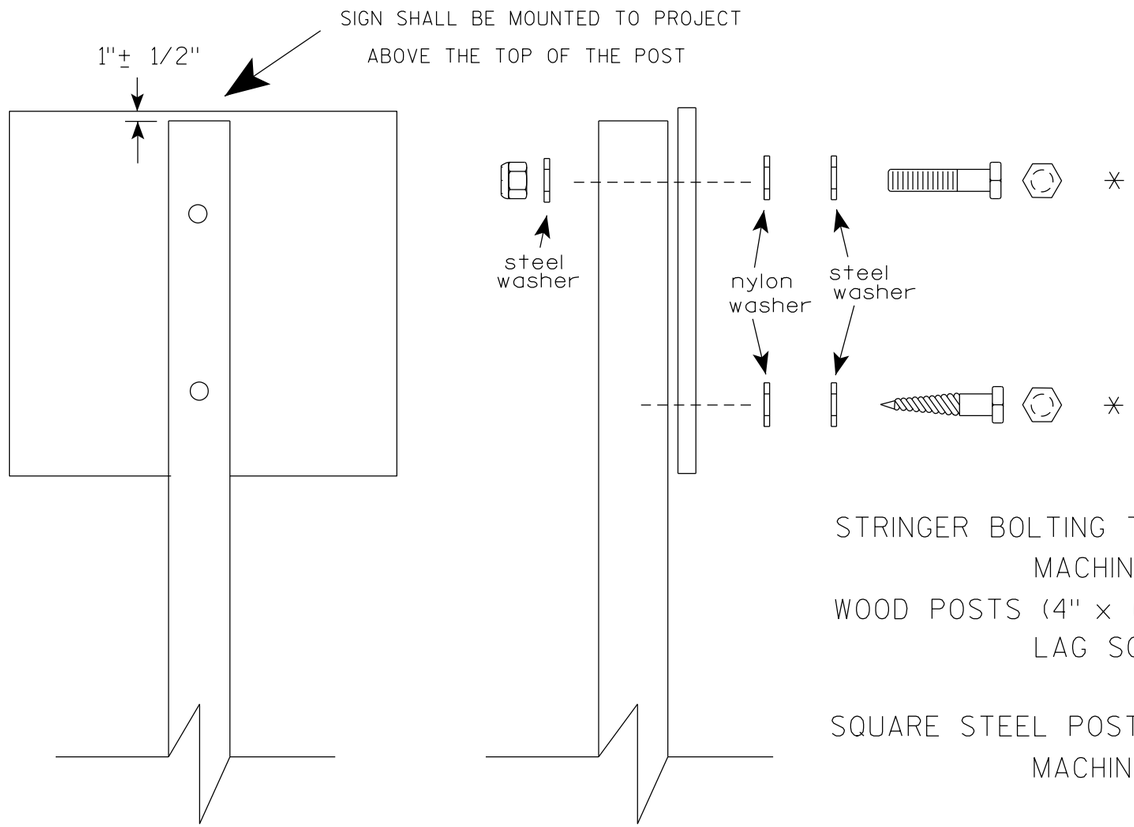
TYPICAL INSTALLATION OF TYPE II SIGNS ON MULTIPLE POSTS

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 12/6/23 PLATE NO. A4-4.16

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 134	E



Nuts, bolts and lags used for mounting signs shall have hexagonal heads and shall be either :

a. Hot dip galvanized in accordance with ASTM Designation: A 153, Class D, or SC 3

b. Electro-galvanized in accordance with ASTM Designation : B 633, TYPE III, SC 3.

Threads on bolts and nuts shall be manufactured with sufficient allowance for the cadmium plate or galvanized coating to permit the nuts to run freely on the bolts.

STRINGER BOLTING TO ALUMINUM SIGNS (SEE SIGN PLATE A4-18)

MACHINE BOLTS - 5/16" X 1-3/4" Length w/ lock nuts

WOOD POSTS (4" x 6")

LAG SCREWS - 3/8" X 3" (NO STRINGERS ON BACK OF SIGN)
3/8" X 4" (STRINGERS ON BACK OF SIGN)

SQUARE STEEL POSTS (2" x 2")

MACHINE BOLTS - 3/8" X 3-1/4" Length w/ nuts (NO STRINGER ON BACK OF SIGN)
3/8" X 5" Length w/ nuts (STRINGERS ON BACK OF SIGN)

RIVETS - 9/32 " (6605-9-6) BULB-TITE, TRI-FOLD, ALUMINUM BODY/MANDREL
O.D. FLANGE .720-.765 INCH, GRIP RANGE .042-.375 INCH

WASHERS (ALL POSTS) -

1-1/4" O.D. X 3/8" I.D. X 1/16" STEEL
1-1/4" O.D. X 3/8" I.D. X .080 NYLON

* Two different fastening systems are shown for illustration purposes. On any individual sign, either one or the other system shall be used. Actual number of fasteners per sign varies with the sign area, but normally there are two. For a single post installation, all signs greater than 9 sq. ft. require the use of 3 fasteners.

ATTACHMENT OF SIGNS TO POSTS

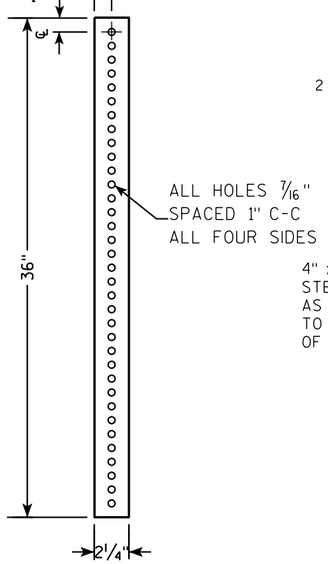
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

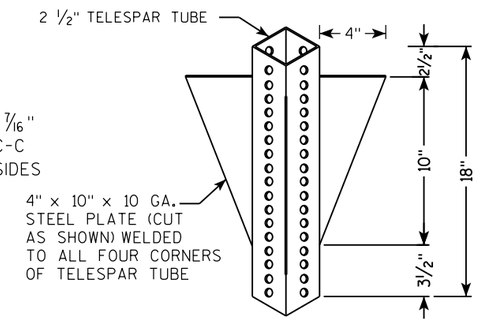
DATE 4/1/2020 PLATE NO. A4-8.9

TELESCOPIC TUBING ANCHORS
TWO PIECE SYSTEM

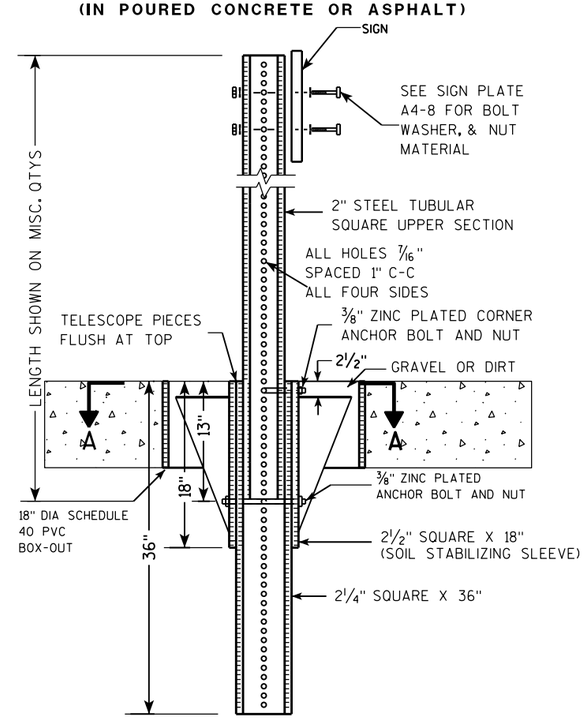
2 1/4" SQUARE
12 GAUGE
PERFORATED
GALVANIZED FINISH



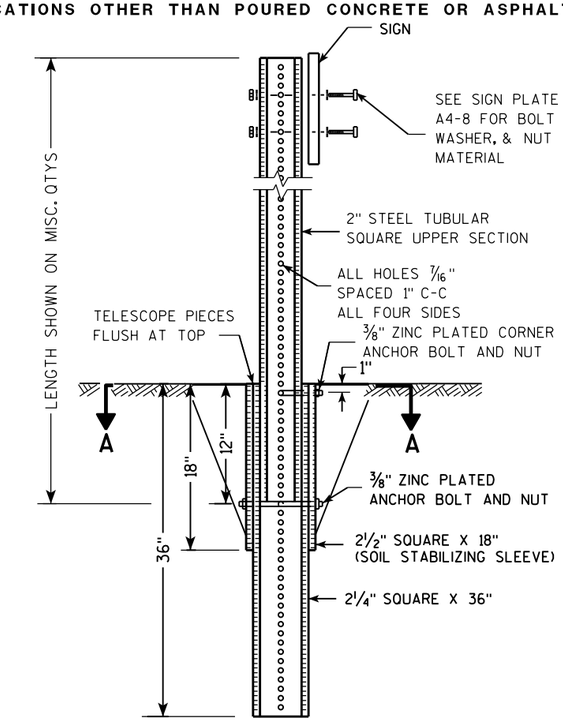
2 1/2" SQUARE
12 GAUGE
OMNI-DIRECTIONAL
PERFORATED
SOIL STABILIZING SLEEVE
GALVANIZED FINISH

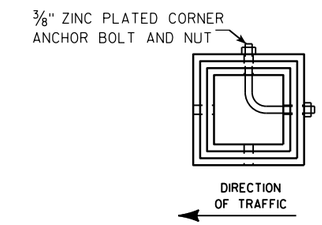


DETAIL OF TUBULAR STEEL SIGN POST
(IN POURED CONCRETE OR ASPHALT)



DETAIL OF TUBULAR STEEL SIGN POST
(IN LOCATIONS OTHER THAN POURED CONCRETE OR ASPHALT)





SECTION A-A

Area of Sign Installation (Sq. Ft.)	Number of Required Posts
9 or less	1
Greater than 9 less than or equal to 18	2
Greater than 18 less than or equal to 27	3

Signs wider than 3 feet or larger than 9 sq. ft shall be mounted on multiple posts (see above table).

TUBULAR STEEL
SIGN POST
A4-9

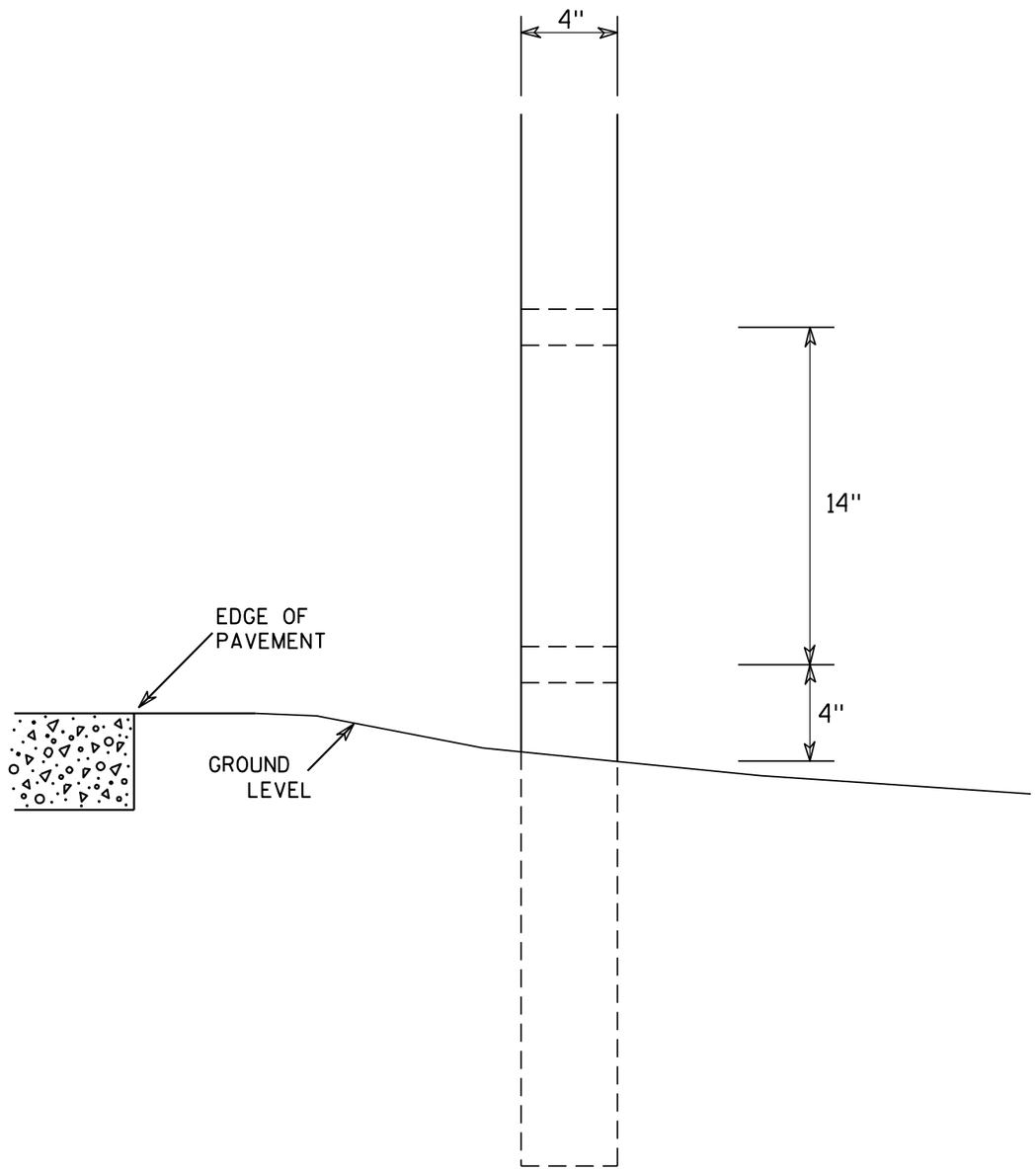
WISCONSIN DEPT OF TRANSPORTATION

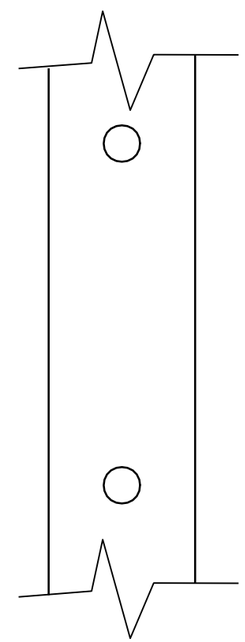
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 2/05/15 PLATE A4-9.9

7 7

PROJECT NO:	HWY:	COUNTY:		SHEET NO:	E





SIDE VIEW

GENERAL NOTES

1. All 4 x 6 Wood Posts shall be modified by having two 1½" diameter holes drilled perpendicular to the roadway centerline.

4 X 6 WOOD POST MODIFICATIONS

WISCONSIN DEPT OF TRANSPORTATION

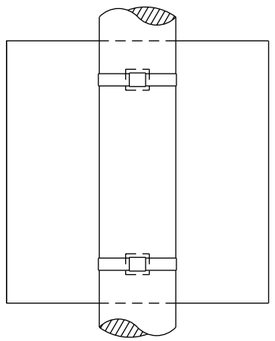
APPROVED Chester J Spang for State Traffic Engineer

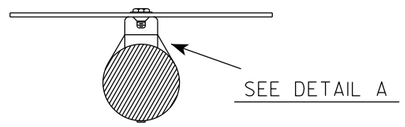
DATE 3/27/97 PLATE NO. A4-11.2

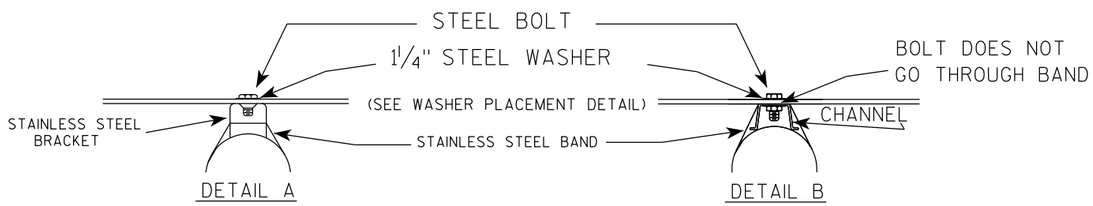
PROJECT NO:	HWY:	COUNTY:		SHEET NO: 137	E

BANDING

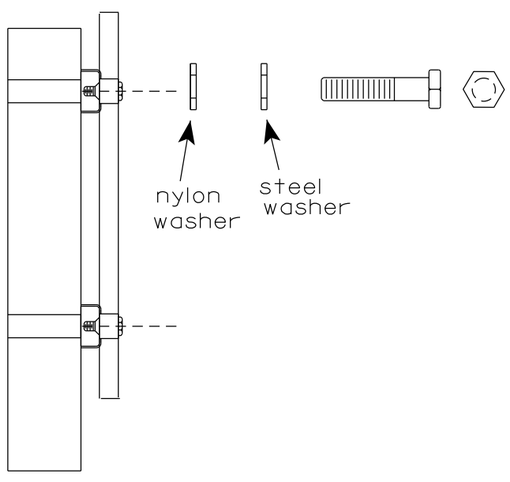
SINGLE SIGN







WASHER PLACEMENT

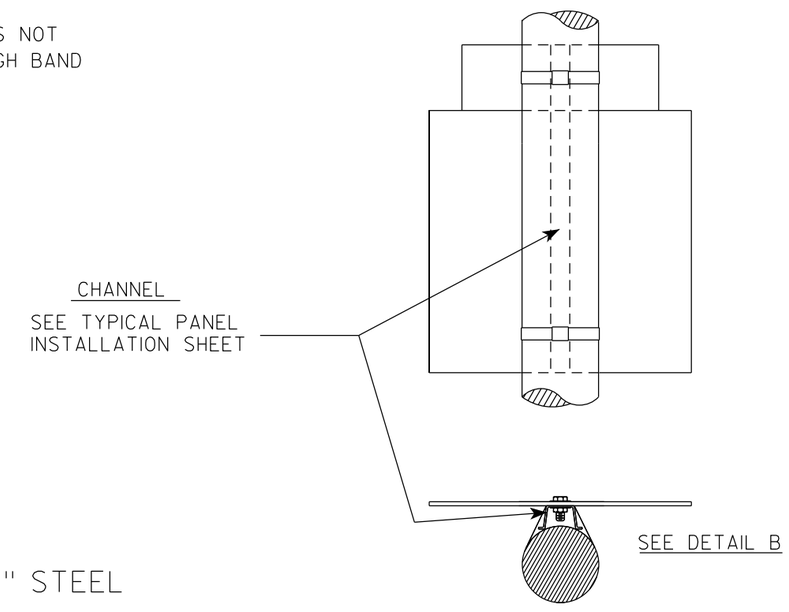


WASHERS (ALL POSTS) -
1-1/4" O.D. X 3/8" I.D. X 1/16" STEEL
1-1/4" O.D. X 3/8" I.D. X .080 NYLON
FOR ALL TYPE H SIGNS

GENERAL NOTES

1. Any sign over 3 feet in width shall use the V-Block banding method. See A5-10 standard plate.
2. Signs 3 feet or greater in height shall have three bracket bands installed. Signs less than 3 feet in height shall have two bracket bands installed.
3. Banding and assembly bracket shall be stainless steel. All bands shall be ¾" in width and 0.025" thickness.
4. ALL SIGN MOUNTING BOLTS AND WASHERS SHALL BE EITHER:
   a. Hot dip or mechanically galvanized in accordance with ASTM Designation: A 153, Class D
   b. Electro-galvanized in accordance with ASTM designation: B 633, Type III, SC 3

"J" ASSEMBLY



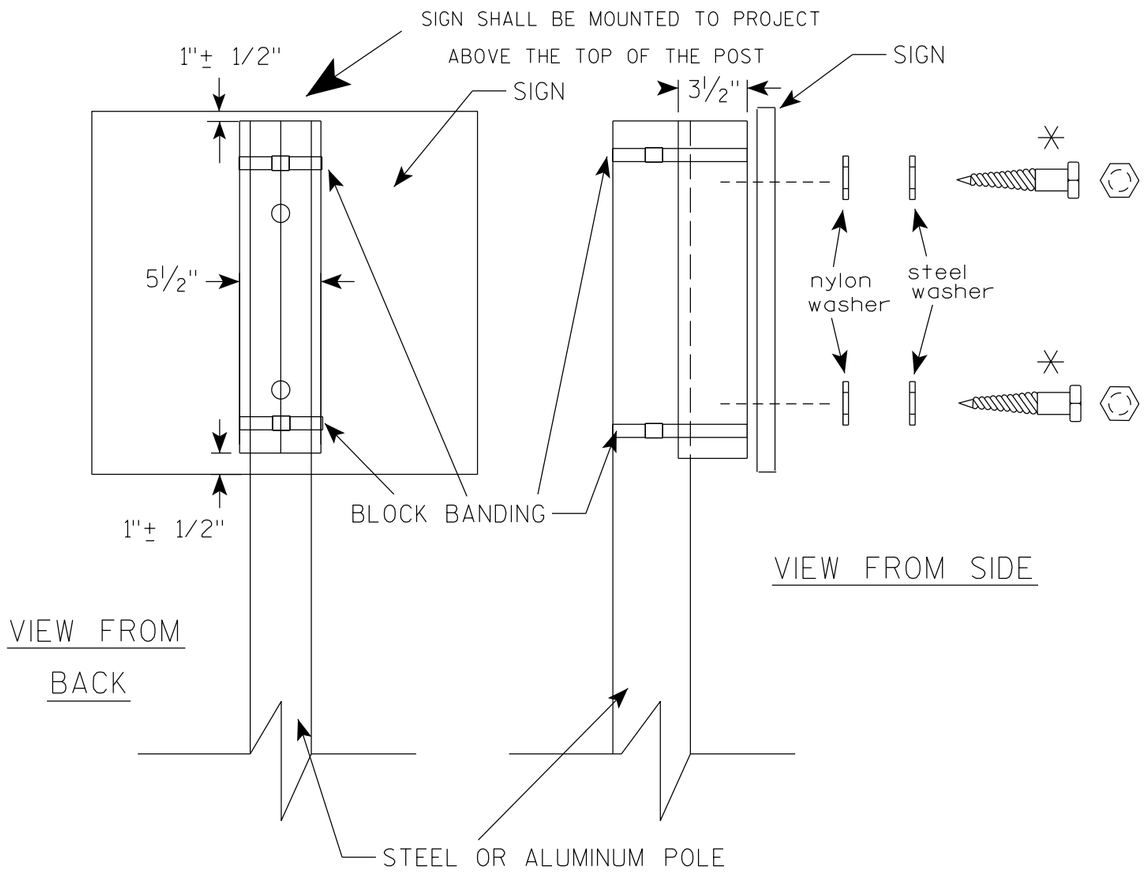
STANDARD SIGN
SIGN BANDING DETAILS

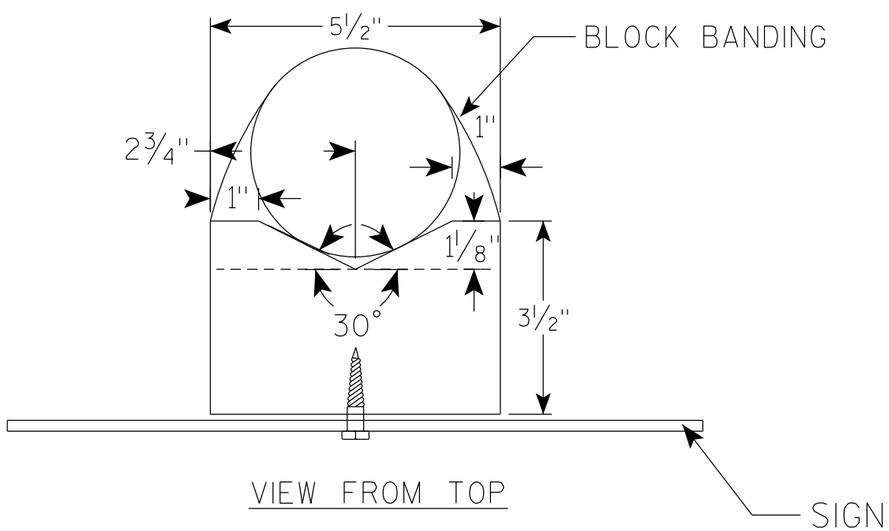
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch for State Traffic Engineer

DATE 6/10/19 PLATE NO. A5-9.4

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 138	E





GENERAL NOTES

1. WOOD 4"X6" POST MATERIAL SHALL CONFORM TO 507.2.2 OF THE WisDOT STANDARD SPECIFICATIONS
2. BLOCK BANDING AND CLIPS SHALL BE STAINLESS STEEL, 3/4" WIDTH AND 0.025" THICKNESS
3. SIGNS 3' OR GREATER IN HEIGHT SHALL UTILIZE 3 BLOCK BANDS. SIGNS UNDER 3' IN HEIGHT SHALL UTILIZE 2 BLOCK BANDS
4. ACTUAL NUMBER OF FASTENERS PER SIGN VARIES WITH THE SIGN AREA, BUT NORNALLY THERE ARE TWO. FOR SIGNS GREATER THAN 9 S.F. 3 FASTENERS SHALL BE USED.
5. ALL SIGN MOUNTING BOLTS AND WASHERS SHALL BE EITHER:
   a. Hot dip or mechanically galvanized in accordance with ASTM Designation: A 153, Class D
   b. Electro-galvanized in accordance with ASTM Designation : B 633, TYPE III, SC 3
6. ALL BOLTS SHALL HAVE HEXAGONAL HEADS.
7. STEEL WASHERS SHALL BE 1 1/4" O.D. X 3/8" I.D. X 1/16"
8. NYLON WASHERS SHALL BE 1 1/4" O.D. X 3/8" I.D. X .080 FOR TYPE H OR TYPE F FACE SIGN

✳ LAG BOLTS SHALL BE 3/8" X 2 1/2"

7

7

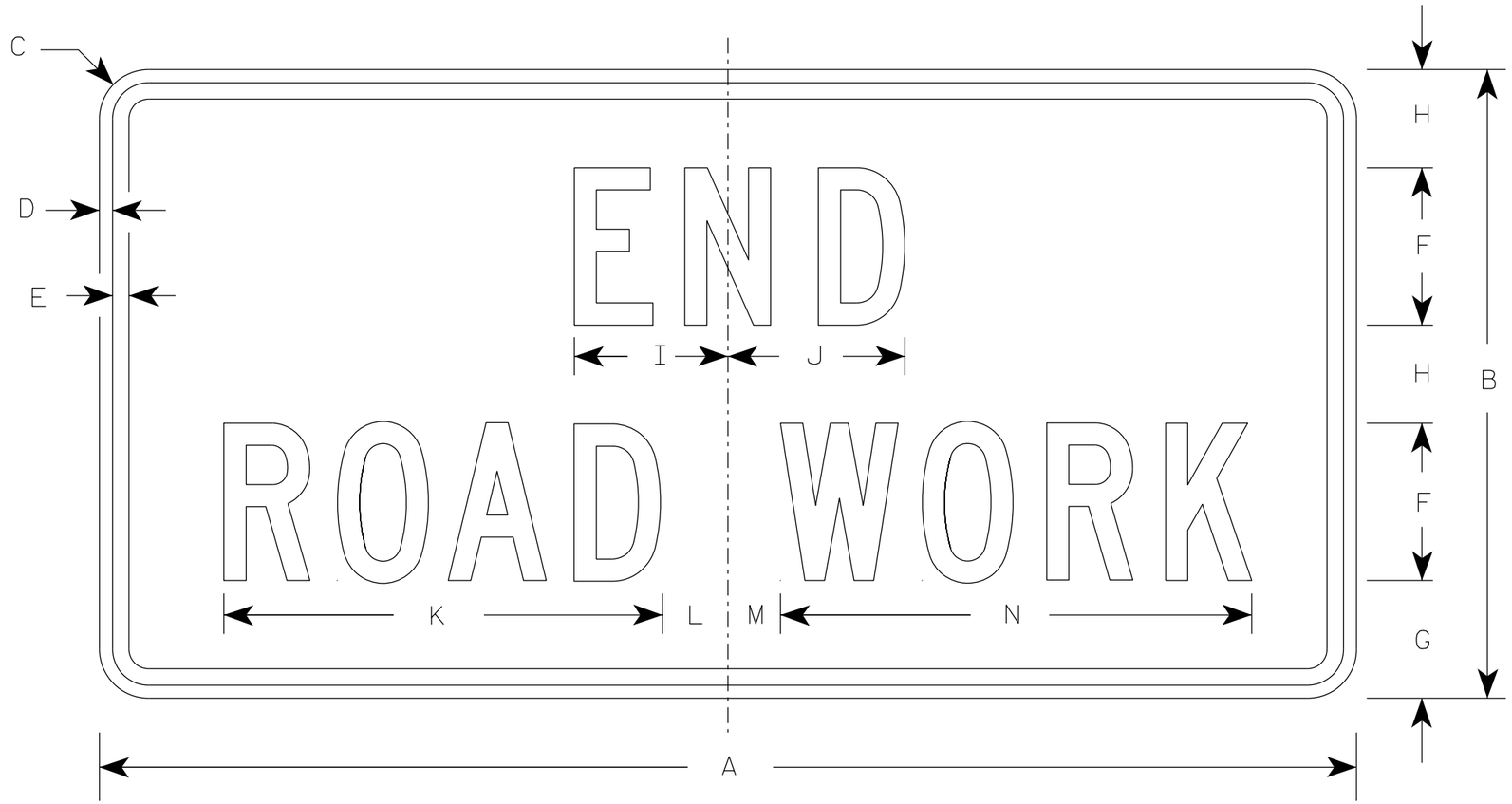
BLOCK BANDING DETAIL
(V-BLOCK OPTION)

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 4/19/2022 PLATE NO. A5-10.3

PROJECT NO:				SHEET NO: 139	E



G20-2A

NOTES

1. Sign is Type II - Type F Reflective
2. Color:
   Background - Orange
   Message - Black
3. Message Series - C
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	36	18	1 1/2	3/8	1/2	4	3 3/4	2 1/2	4 1/8	4 1/8	11 1/8	2	1	12 1/8													4.5
2	48	24	1 7/8	1/2	5/8	6	4 1/2	3 3/4	5 7/8	6 3/4	16 3/4	2 1/2	1 3/4	18 1/2													8.0
2M	48	24	1 7/8	1/2	5/8	6	4 1/2	3 3/4	5 7/8	6 3/4	16 3/4	2 1/2	1 3/4	18 1/2													8.0
3	48	24	1 7/8	1/2	5/8	6	4 1/2	3 3/4	5 7/8	6 3/4	16 3/4	2 1/2	1 3/4	18 1/2													8.0
4	48	24	1 7/8	1/2	5/8	6	4 1/2	3 3/4	5 7/8	6 3/4	16 3/4	2 1/2	1 3/4	18 1/2													8.0
5	48	24	1 7/8	1/2	5/8	6	4 1/2	3 3/4	5 7/8	6 3/4	16 3/4	2 1/2	1 3/4	18 1/2													8.0

STANDARD SIGN

G20-2A

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 1/26/2023 PLATE NO. G20-2A.10

PROJECT NO: | HWY: | COUNTY: | SHEET NO: 140 | E

NOTES

1. Sign is Type II- Type F Reflective
2. Color:
   Background - Orange
   Message - Black
3. Message Series - E
4. Material shall be .040 aluminmum

G20-60

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2																											
3																											
4	108	24				12	6	14 7/8	78 1/4																		18.0
5																											

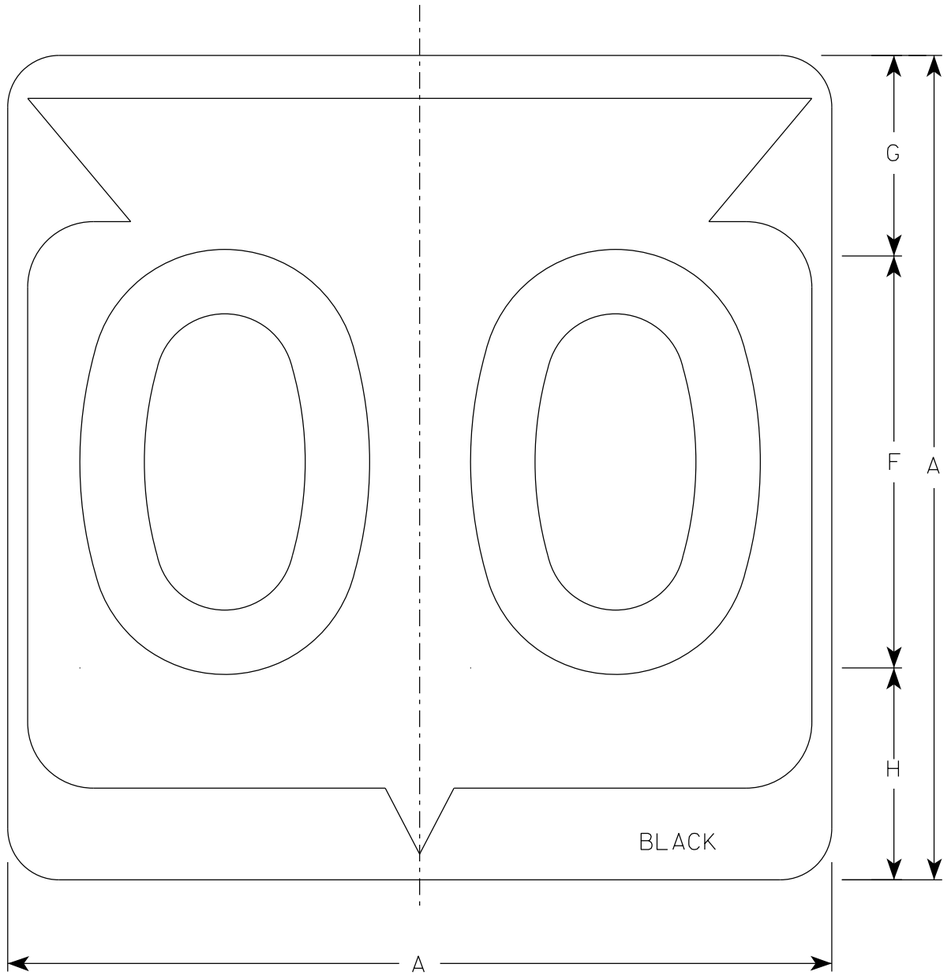
STANDARD SIGN
G20-60

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 5/13/15 PLATE NO G20-60.1

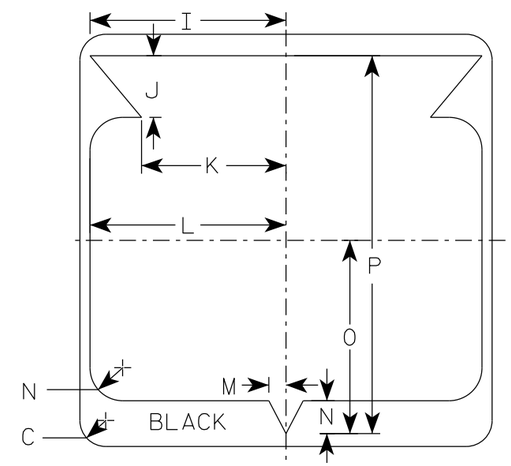
PROJECT NO:	HWY:	COUNTY:		SHEET NO:	E



M1-6

NOTES

1. Sign is Type II - Type H Reflective
2. Color:
   Background - White
   Message - Black
3. Message Series - D except 3 number signs Series C



SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2	24		1 1/2			12	5 1/2	6 1/2	10 1/4	2 1/2	8 7/8	11 1/2	1	1 7/8	11 1/4	21 7/8											4.0
2M	24		1 1/2			12	5 1/2	6 1/2	10 1/4	2 1/2	8 7/8	11 1/2	1	1 7/8	11 1/4	21 7/8											4.0
3	36		2 1/4			18	8 3/4	9 1/4	15 3/8	5 3/8	12 5/8	17 1/8	1 1/2	2 7/8	16 7/8	33											9.0
4	36		2 1/4			18	8 3/4	9 1/4	15 3/8	5 3/8	12 5/8	17 1/8	1 1/2	2 7/8	16 7/8	33											9.0
5	36		2 1/4			18	8 3/4	9 1/4	15 3/8	5 3/8	12 5/8	17 1/8	1 1/2	2 7/8	16 7/8	33											9.0

STATE ROUTE MARKER
M1-6 FOR ASSEMBLIES

WISCONSIN DEPT OF TRANSPORTATION

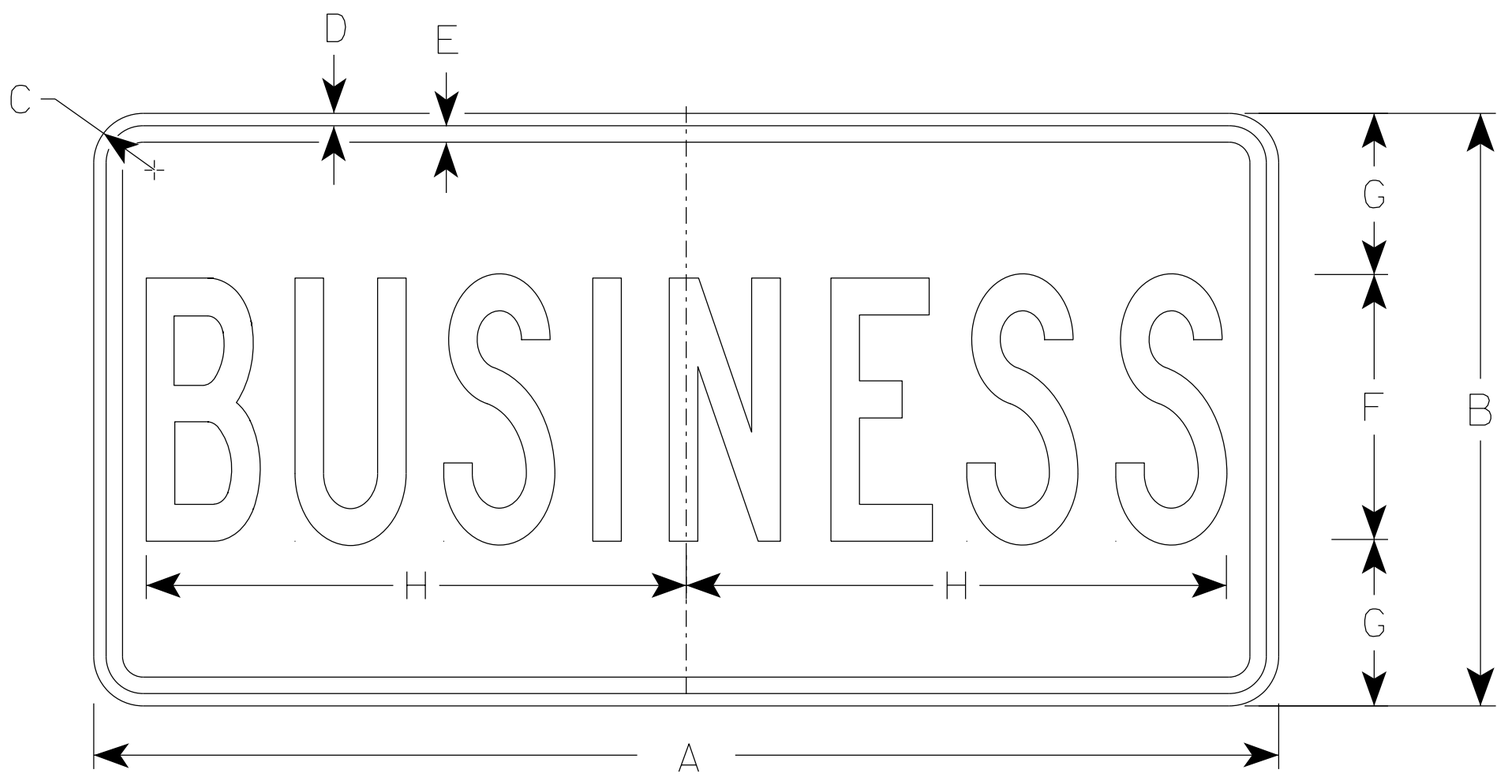
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 11/8/2022 PLATE NO. M1-6.11

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 142	E

NOTES

1. Sign is Type II - Type H Reflective
2. Color:
   Background - White
   Message - Black
3. Message Series - B



M4-3

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2	24	12	1 1/2	3/8	3/8	5	3 1/2	9 5/8																			2.0
2M	24	12	1 1/2	3/8	3/8	5	3 1/2	9 5/8																			2.0
3	36	18	1 1/2	3/8	1/2	8	5	16 3/8																			4.5
4	36	18	1 1/2	3/8	1/2	8	5	16 3/8																			4.5
5	36	18	1 1/2	3/8	1/2	8	5	16 3/8																			4.5

STANDARD SIGN

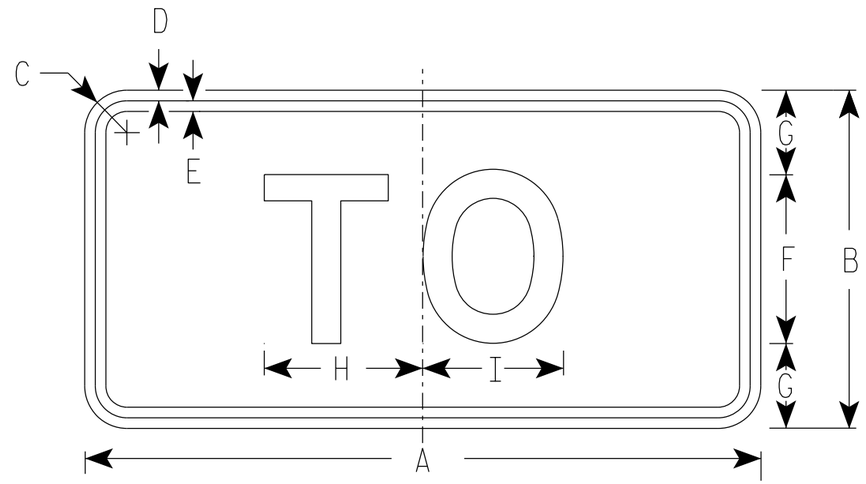
M4-3

WISCONSIN DEPT OF TRANSPORTATION

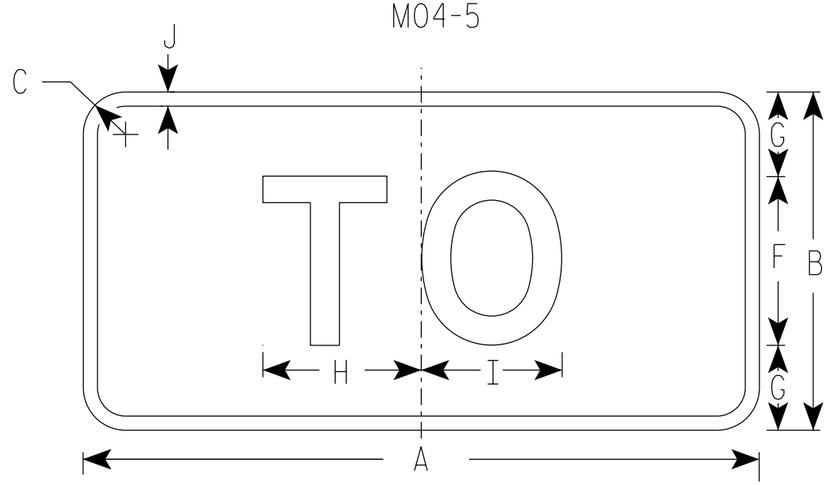
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 2/8/2023 PLATE NO. M4-3.7

PROJECT NO: | HWY: | COUNTY: | SHEET NO: | E



M4-5
MM4-5
MP4-5
M04-5



MB4-5
MK4-5
MN4-5

NOTES

1. Sign is Type II - Type H Reflective
2. Color:
   Background - See note 5
   Message - See note 5
3. Message Series - E
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
5. M4-5 Background - White
   Message - Black

   MB4-5 Background - Blue
   Message - White

   MK4-5 Background - Green
   Message - White

   MM4-5 Background - White
   Message - Green

   MN4-5 Background - Brown
   Message - White

   MP4-5 Background - White
   Message - Blue

   M04-5 Background - Orange Type F Reflective
   Message - Black

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2S	24	12	1 1/2	3/8	3/8	6	3	5 3/8	5 1/4	1/2																	2.00
2M	24	12	1 1/2	3/8	3/8	6	3	5 3/8	5 1/4	1/2																	2.00
3	36	18	1 1/2	3/8	1/2	9	4 1/2	8 1/4	8 3/8	1/2																	4.5
4	36	18	1 1/2	3/8	1/2	9	4 1/2	8 1/4	8 3/8	1/2																	4.5
5	36	18	1 1/2	3/8	1/2	9	4 1/2	8 1/4	8 3/8	1/2																	4.5

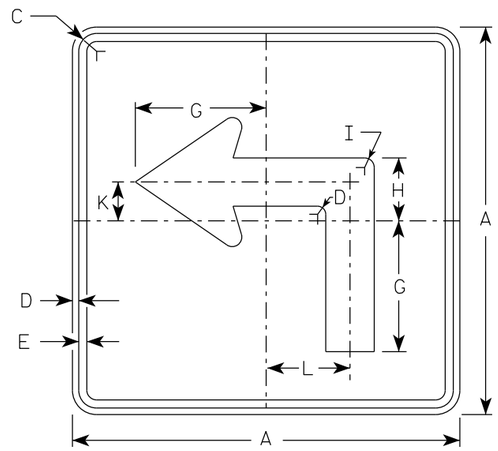
STANDARD SIGN
M4-5

WISCONSIN DEPT OF TRANSPORTATION

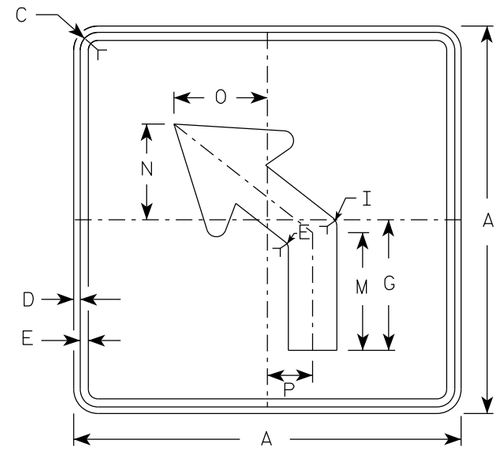
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 2/8/2023 PLATE NO. M4-5.11

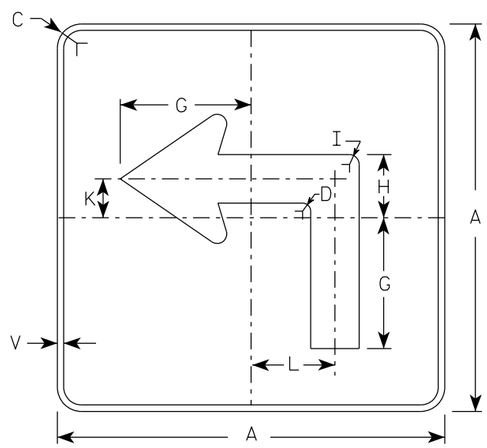
PROJECT NO: | HWY: | COUNTY: | SHEET NO: 144 | E



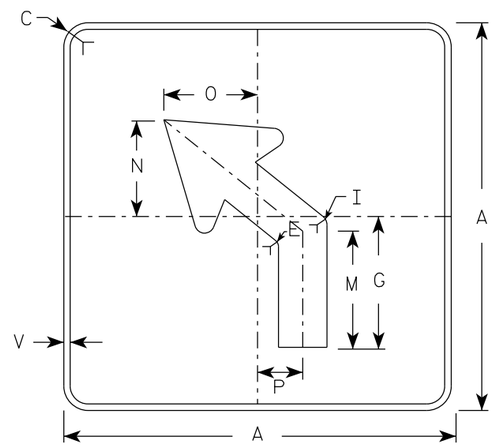
M5-1L
MM5-1L
MO5-1L
MP5-1L



M5-2L
MM5-2L
MO5-2L
MP5-2L



MB5-1L
MK5-1L
MN5-1L
MR5-1L

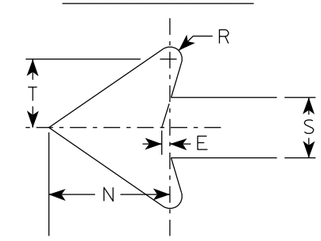


MB5-2L
MK5-2L
MN5-2L
MR5-2L

NOTES

1. Signs are Type II - Type H reflective except as shown
2. Color:
   Background - See note 4
   Message - See note 4
3. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
4. M5-1 and M5-2 Background - White
   Message - Black
   MB5-1 and MB5-2 Background - Blue
   Message - White
   MK5-1 and MK5-2 Background - Green
   Message - White
   MM5-1 and MM5-2 Background - White
   Message - Green
   MN5-1 and MN5-2 Background - Brown
   Message - White
   MO5-1 and MO5-2 Background - Orange - Type F Reflective
   Message - Black
   MP5-1 and MP5-2 Background - White
   Message - Blue
   MR5-1 and MR5-2 Background - Brown
   Message - Yellow
5. M5-1R same as M5-1L except arrow points right.
6. M5-2R same as M5-2L except arrow tilts right.

ARROW DETAIL



SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2S	21		1 1/2	3/8	3/8		7	3 3/8	5/8		2 1/8	4 1/2	6 3/8	5 1/4	5	2 1/2		1/2	2 5/8	3		1/2					3.06
2M	21		1 1/2	3/8	3/8		7	3 3/8	5/8		2 1/8	4 1/2	6 3/8	5 1/4	5	2 1/2		1/2	2 5/8	3		1/2					3.06
3	30		1 7/8	1/2	5/8		10 1/8	4 7/8	7/8		3	6 1/2	9 1/8	7 1/2	7 1/4	3 1/2		3/4	3 3/4	4 1/4		1/2					6.25
4	30		1 7/8	1/2	5/8		10 1/8	4 7/8	7/8		3	6 1/2	9 1/8	7 1/2	7 1/4	3 1/2		3/4	3 3/4	4 1/4		1/2					6.25
5	30		1 7/8	1/2	5/8		10 1/8	4 7/8	7/8		3	6 1/2	9 1/8	7 1/2	7 1/4	3 1/2		3/4	3 3/4	4 1/4		1/2					6.25

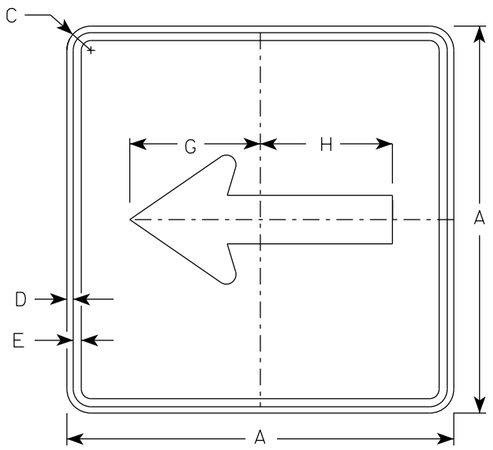
STANDARD SIGN
M5-1 & M5-2

WISCONSIN DEPT OF TRANSPORTATION

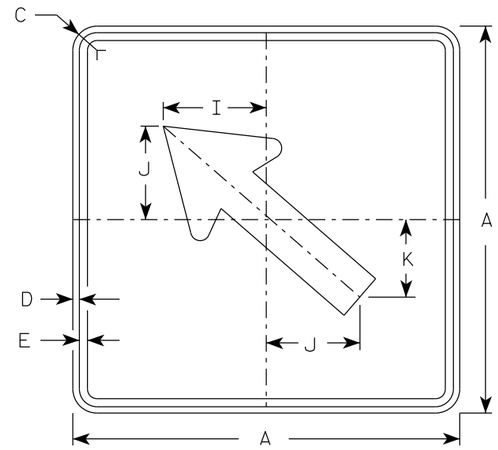
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 2/13/2023 PLATE NO. M5-1.15

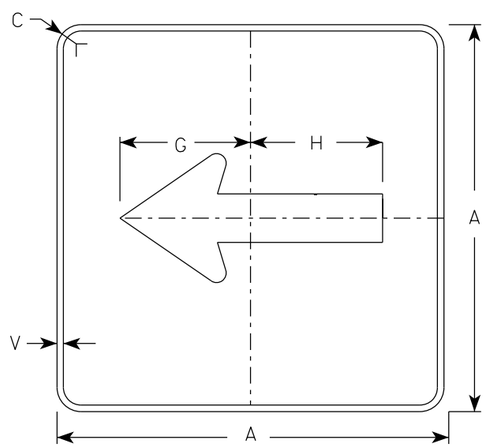
PROJECT NO: | HWY: | COUNTY: | SHEET NO: 145 | E



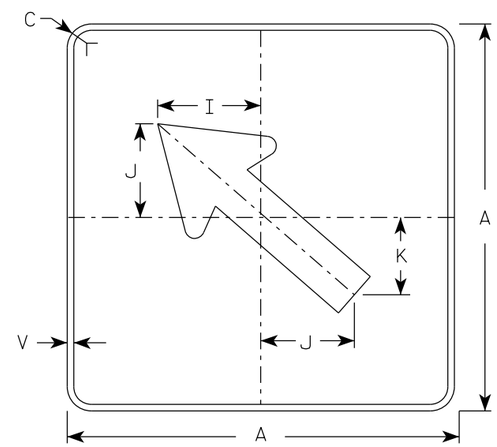
M6-1
MM6-1
MO6-1
MP6-1



M6-2
MM6-2
MO6-2
MP6-2



MB6-1
MK6-1
MN6-1
MR6-1

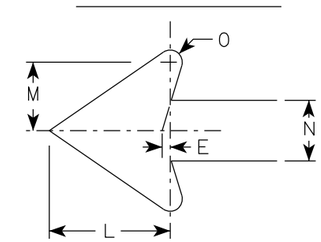


MB6-2
MK6-2
MN6-2
MR6-2

NOTES

1. Signs are Type II - Type H Reflective except as Shown
2. Color:
   Background - See note 4
   Message - See note 4
3. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
4. M6-1 and M6-2 Background - White
   Message - Black
   MB6-1 and MB6-2 Background - Blue
   Message - White
   MK6-1 and MK6-2 Background - Green
   Message - White
   MM6-1 and MM6-2 Background - White
   Message - Green
   MN6-1 and MN6-2 Background - Brown
   Message - White
   MO6-1 and MO6-2 Background - Orange - Type F Reflective
   Message - Black
   MP6-1 and MP6-2 Background - White
   Message - Blue
   MR6-1 and MR6-2 Background - Brown
   Message - Yellow

ARROW DETAIL



SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2S	21		1 1/2	3/8	3/8		7 1/2	7 1/8	5 5/8	5	4 1/4	5 1/4	3	2 5/8	1/2							1/2					3.06
2M	21		1 1/2	3/8	3/8		7 1/2	7 1/8	5 5/8	5	4 1/4	5 1/4	3	2 5/8	1/2							1/2					3.06
3	30		1 7/8	1/2	5/8		10 3/4	10 1/4	8	7 1/4	6	7 1/2	4 1/4	3 3/4	3/4							1/2					6.25
4	30		1 7/8	1/2	5/8		10 3/4	10 1/4	8	7 1/4	6	7 1/2	4 1/4	3 3/4	3/4							1/2					6.25
5	30		1 7/8	1/2	5/8		10 3/4	10 1/4	8	7 1/4	6	7 1/2	4 1/4	3 3/4	3/4							1/2					6.25

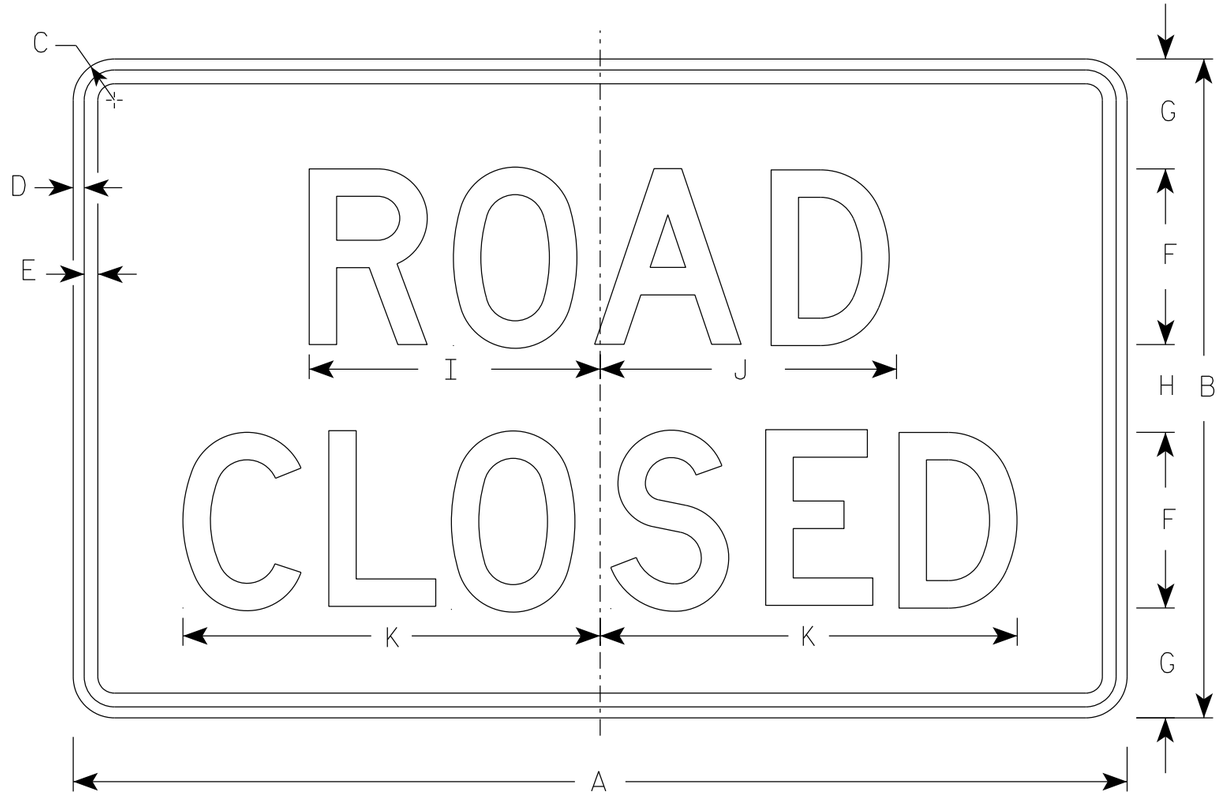
STANDARD SIGN
M6-1 & M6-2
SERIES

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 2/13/2023 PLATE NO. M6-1.16

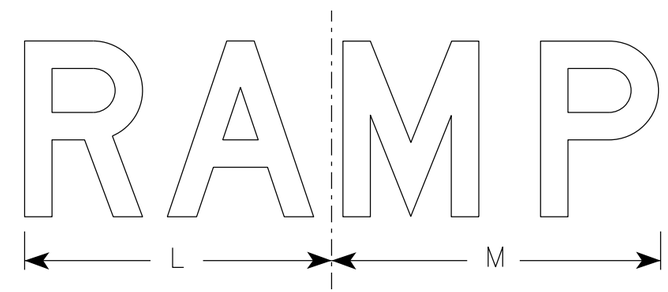
PROJECT NO: | HWY: | COUNTY: | SHEET NO: 146 | E



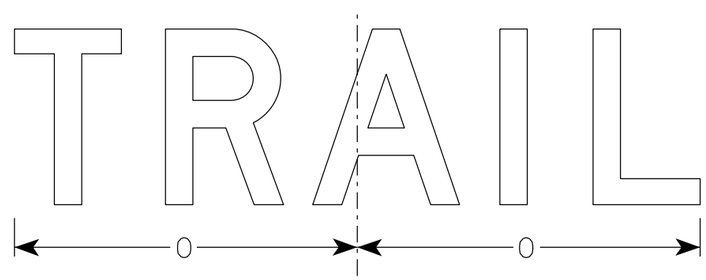
R11-2

NOTES

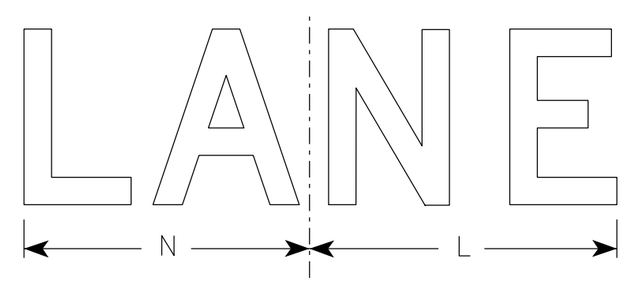
1. Sign is Type II - Type H Reflective
2. Color:
   Background - White
   Message - Black
3. Message Series - D
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
5. Modify the message as required.



R11-2R



R11-2T



R11-2L

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2S	48	30	1 7/8	1/2	5/8	8	5	4	13 1/4	13 1/2	19	14	15	13	15 5/8												10.0
2M	48	30	1 7/8	1/2	5/8	8	5	4	13 1/4	13 1/2	19	14	15	13	15 5/8												10.0
3	48	30	1 7/8	1/2	5/8	8	5	4	13 1/4	13 1/2	19	14	15	13	15 5/8												10.0
4	48	30	1 7/8	1/2	5/8	8	5	4	13 1/4	13 1/2	19	14	15	13	15 5/8												10.0
5	48	30	1 7/8	1/2	5/8	8	5	4	13 1/4	13 1/2	19	14	15	13	15 5/8												10.0

STANDARD SIGN
R11-2

WISCONSIN DEPT OF TRANSPORTATION

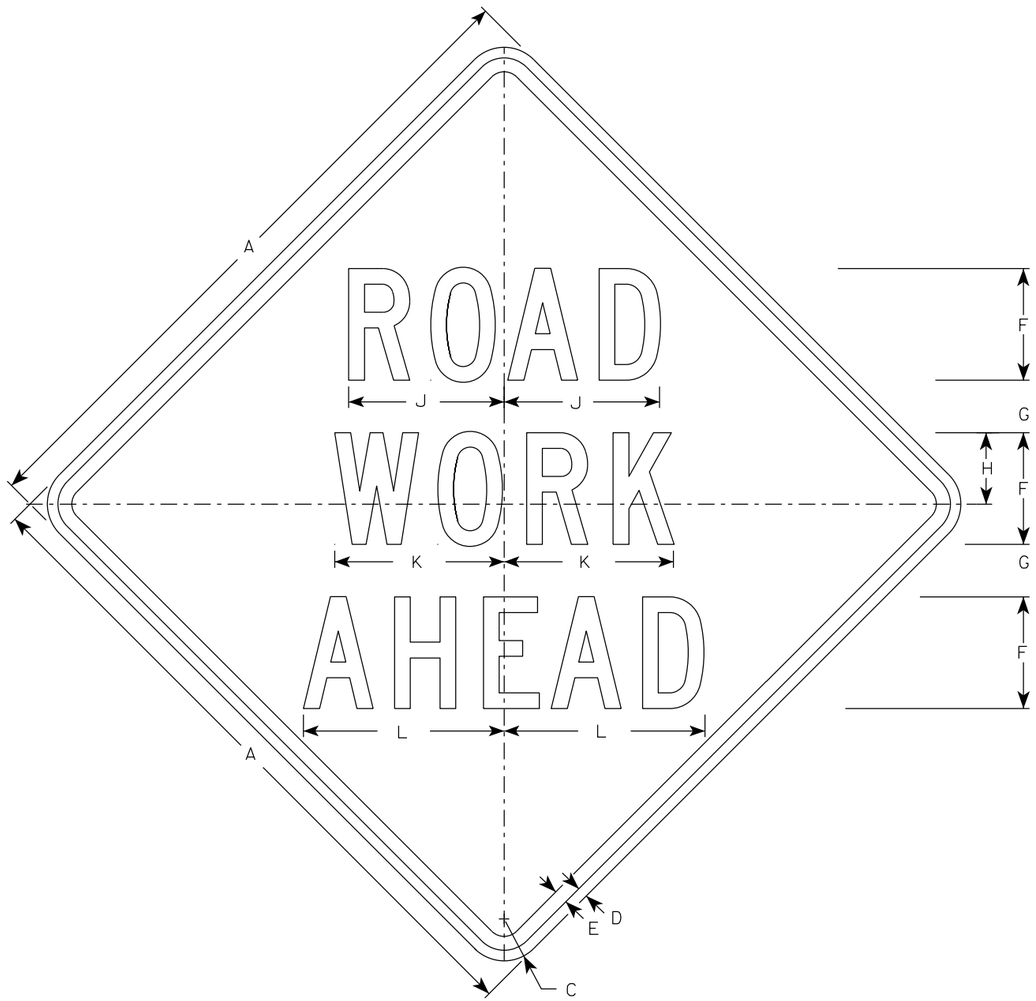
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 2/5/24 PLATE NO. R11-2.12

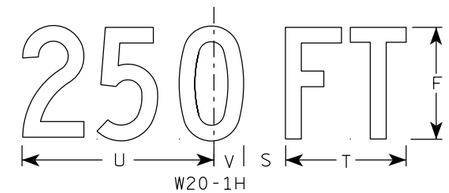
PROJECT NO: | HWY: | COUNTY: | SHEET NO: E

NOTES

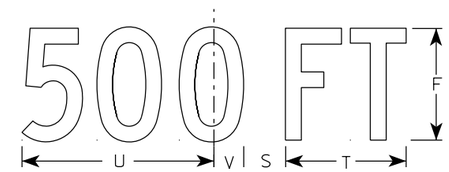
1. Sign is Type II - Type F Reflective
2. Color:
   Background - Orange
   Message - Black
3. Message Series - C
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.



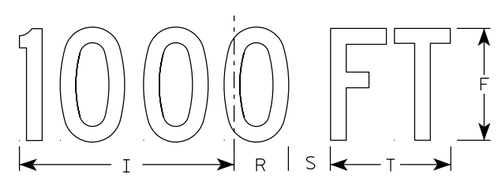
W20-1A



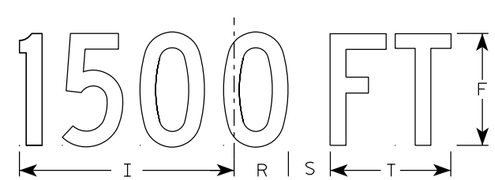
W20-1H



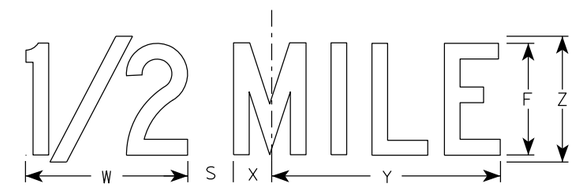
W20-1D



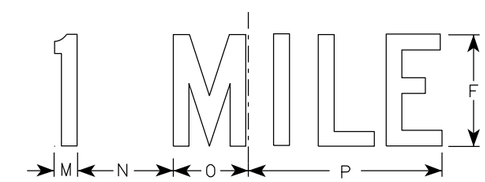
W20-1C



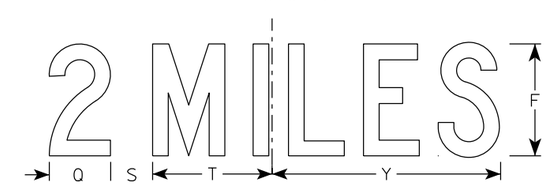
W20-1B



W20-1G



W20-1F



W20-1E

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	36		2 1/4	5/8	3/4	5	2 5/8	3 1/4	10 1/8	7	7 5/8	8 7/8	1 1/8	4 1/2	3 1/2	9	3 1/4	2 1/2	2 1/4	5 5/8	9	1 3/8	8	1 3/4	10 3/4	6	9.0
2S	48		3	3/4	1	8	3 3/4	5 1/8	15 3/8	11 1/8	12 1/8	14 3/8	1 5/8	6 7/8	5 3/8	13 7/8	4 3/8	3 7/8	3	8 5/8	13 3/4	2 1/8	11 7/8	2 3/4	16 3/8	9	16.0
2M	48		3	3/4	1	8	3 3/4	5 1/8	15 3/8	11 1/8	12 1/8	14 3/8	1 5/8	6 7/8	5 3/8	13 7/8	4 3/8	3 7/8	3	8 5/8	13 3/4	2 1/8	11 7/8	2 3/4	16 3/8	9	16.0
3	48		3	3/4	1	8	3 3/4	5 1/8	15 3/8	11 1/8	12 1/8	14 3/8	1 5/8	6 7/8	5 3/8	13 7/8	4 3/8	3 7/8	3	8 5/8	13 3/4	2 1/8	11 7/8	2 3/4	16 3/8	9	16.0
4	48		3	3/4	1	8	3 3/4	5 1/8	15 3/8	11 1/8	12 1/8	14 3/8	1 5/8	6 7/8	5 3/8	13 7/8	4 3/8	3 7/8	3	8 5/8	13 3/4	2 1/8	11 7/8	2 3/4	16 3/8	9	16.0
5	48		3	3/4	1	8	3 3/4	5 1/8	15 3/8	11 1/8	12 1/8	14 3/8	1 5/8	6 7/8	5 3/8	13 7/8	4 3/8	3 7/8	3	8 5/8	13 3/4	2 1/8	11 7/8	2 3/4	16 3/8	9	16.0

STANDARD SIGN
W20-1A, B, C, D, E, F, G & H

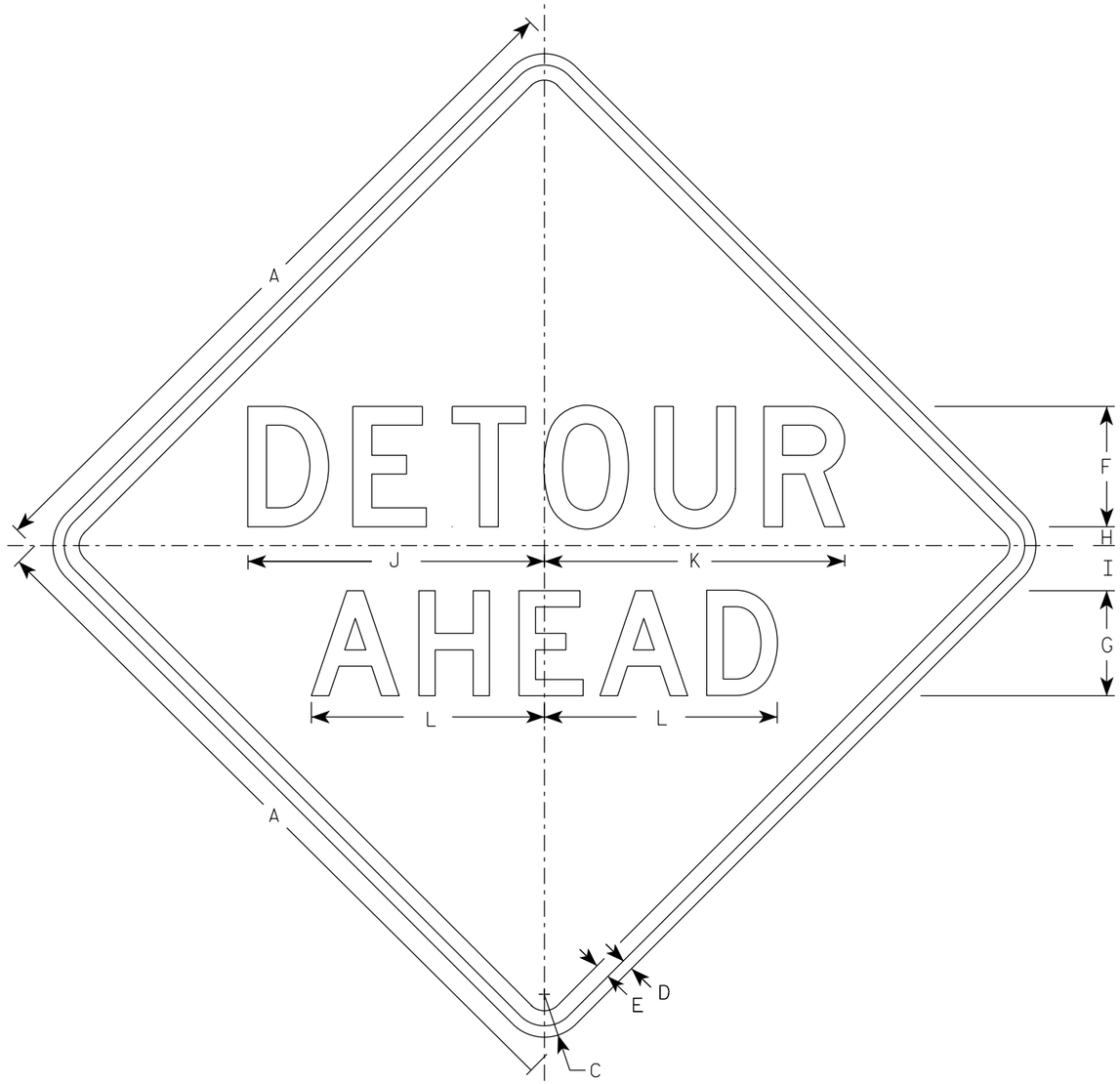
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
For State Traffic Engineer

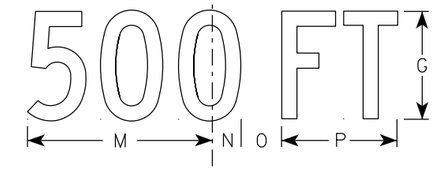
DATE 1/10/2024 PLATE NO. W20-1.12

PROJECT NO:

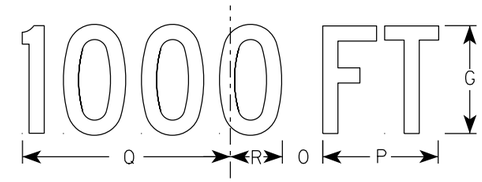
SHEET NO: 148 E



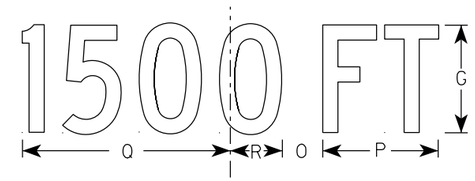
W20-2A



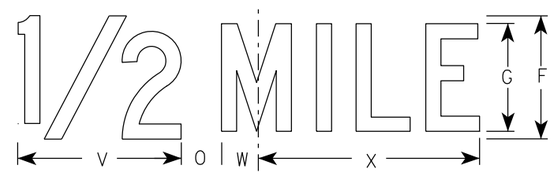
W20-2D



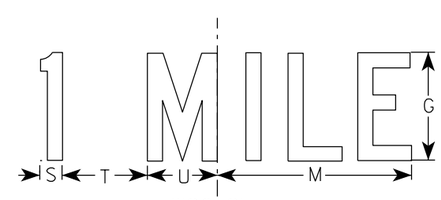
W20-2C



W20-2B



W20-2G



W20-2F

NOTES

1. Sign is Type II - Type F Reflective
2. Color:
   Background - Orange
   Message - Black
3. Message Series - See note 5
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
5. Line 1 is Series D.
   Line 2 is Series D for AHEAD and Series C for all other distances.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	36		2 1/4	5/8	3/4	6	5	1	2 1/4	14 3/4	15	11 5/8	9	1 3/8	1 7/8	5 5/8	10 1/8	2 1/2	1 1/8	4 1/2	3 1/2	8	1 3/4	10 3/4			9.0
2S	48		3	3/4	1	8	7	1 1/4	3	19 3/4	20	15 1/2	12	1 7/8	2 5/8	7 1/2	13 1/2	3 3/8	1 1/2	6	4 5/8	10 5/8	2 3/8	14 3/8			16.0
2M	48		3	3/4	1	8	7	1 1/4	3	19 3/4	20	15 1/2	12	1 7/8	2 5/8	7 1/2	13 1/2	3 3/8	1 1/2	6	4 5/8	10 5/8	2 3/8	14 3/8			16.0
3	48		3	3/4	1	8	7	1 1/4	3	19 3/4	20	15 1/2	12	1 7/8	2 5/8	7 1/2	13 1/2	3 3/8	1 1/2	6	4 5/8	10 5/8	2 3/8	14 3/8			16.0
4	48		3	3/4	1	8	7	1 1/4	3	19 3/4	20	15 1/2	12	1 7/8	2 5/8	7 1/2	13 1/2	3 3/8	1 1/2	6	4 5/8	10 5/8	2 3/8	14 3/8			16.0
5	48		3	3/4	1	8	7	1 1/4	3	19 3/4	20	15 1/2	12	1 7/8	2 5/8	7 1/2	13 1/2	3 3/8	1 1/2	6	4 5/8	10 5/8	2 3/8	14 3/8			16.0

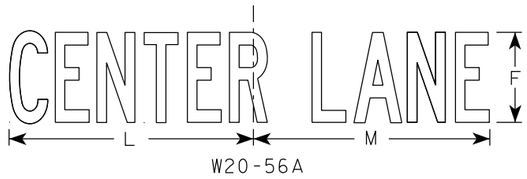
STANDARD SIGN
W20-2A,B,C,D,F & G

WISCONSIN DEPT OF TRANSPORTATION

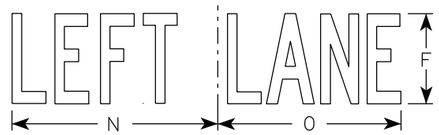
APPROVED Matthew R Rauch
For State Traffic Engineer

DATE 1/10/2024 PLATE NO. W20-2.7

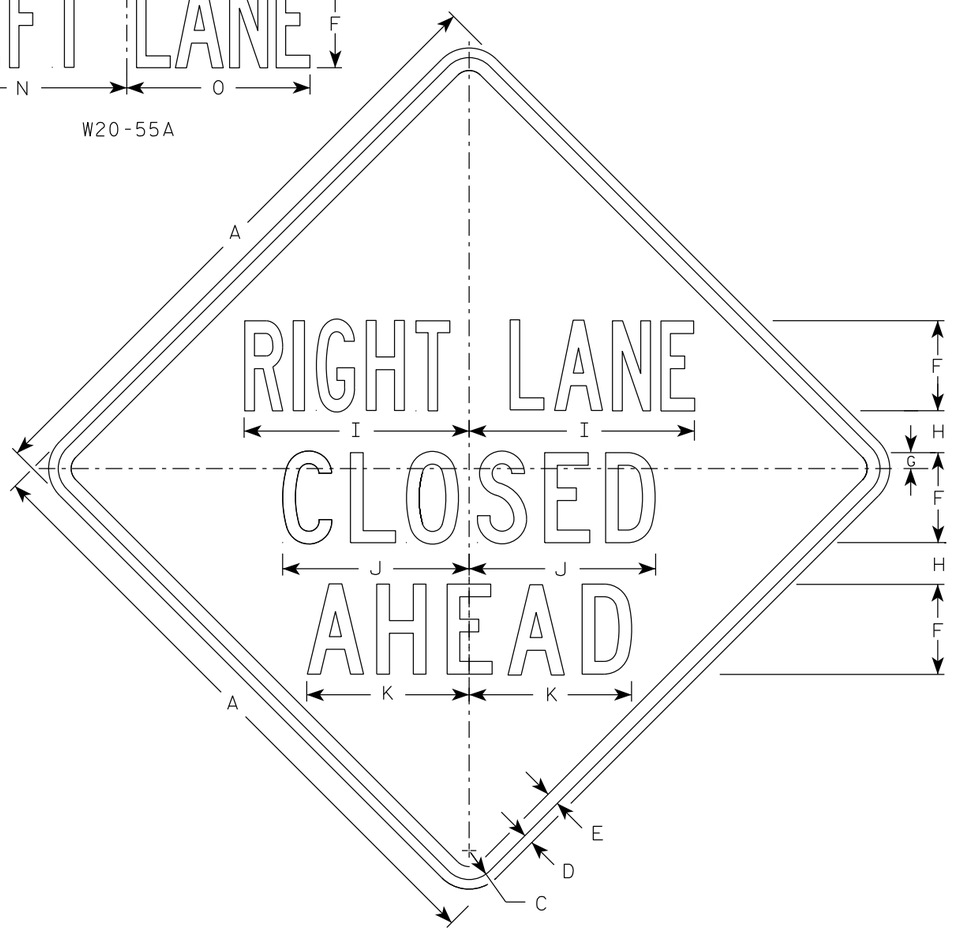
PROJECT NO: | HWY: | COUNTY: | SHEET NO: E



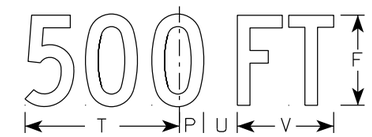
W20-56A



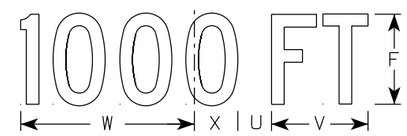
W20-55A



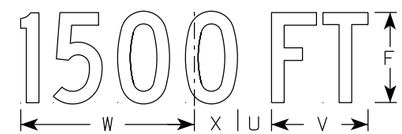
W20-5A



W20-5D



W20-5C



W20-5B

W20-5G

W20-5F

NOTES

1. Sign is Type II - Type F Reflective
2. Color:
   Background - Orange
   Message - Black
3. Message Series - See Note 5
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
5. " _____ LANE" is Series B.
   All other copy is Series C.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	36	6	2 1/4	5/8	3/4	5	7/8	2 1/2	13 1/8	10 3/4	9 1/2	14 1/4	13 5/8	12	12	1 3/8	1 1/8	4 1/2	3 1/2	9	1 7/8	5 5/8	10 1/8	2 1/2	1 3/4	8	9.0
2S	48	8	3	3/4	1	7	1 1/4	3 1/4	17 1/2	14 3/8	12 5/8	19	18 3/8	16	14 1/4	1 7/8	1 1/2	6	4 5/8	12	2 5/8	7 1/2	13 1/2	3 3/8	2 3/8	10 5/8	16.0
2M	48	8	3	3/4	1	7	1 1/4	3 1/4	17 1/2	14 3/8	12 5/8	19	18 3/8	16	14 1/4	1 7/8	1 1/2	6	4 5/8	12	2 5/8	7 1/2	13 1/2	3 3/8	2 3/8	10 5/8	16.0
3	48	8	3	3/4	1	7	1 1/4	3 1/4	17 1/2	14 3/8	12 5/8	19	18 3/8	16	14 1/4	1 7/8	1 1/2	6	4 5/8	12	2 5/8	7 1/2	13 1/2	3 3/8	2 3/8	10 5/8	16.0
4	48	8	3	3/4	1	7	1 1/4	3 1/4	17 1/2	14 3/8	12 5/8	19	18 3/8	16	14 1/4	1 7/8	1 1/2	6	4 5/8	12	2 5/8	7 1/2	13 1/2	3 3/8	2 3/8	10 5/8	16.0
5	48	8	3	3/4	1	7	1 1/4	3 1/4	17 1/2	14 3/8	12 5/8	19	18 3/8	16	14 1/4	1 7/8	1 1/2	6	4 5/8	12	2 5/8	7 1/2	13 1/2	3 3/8	2 3/8	10 5/8	16.0

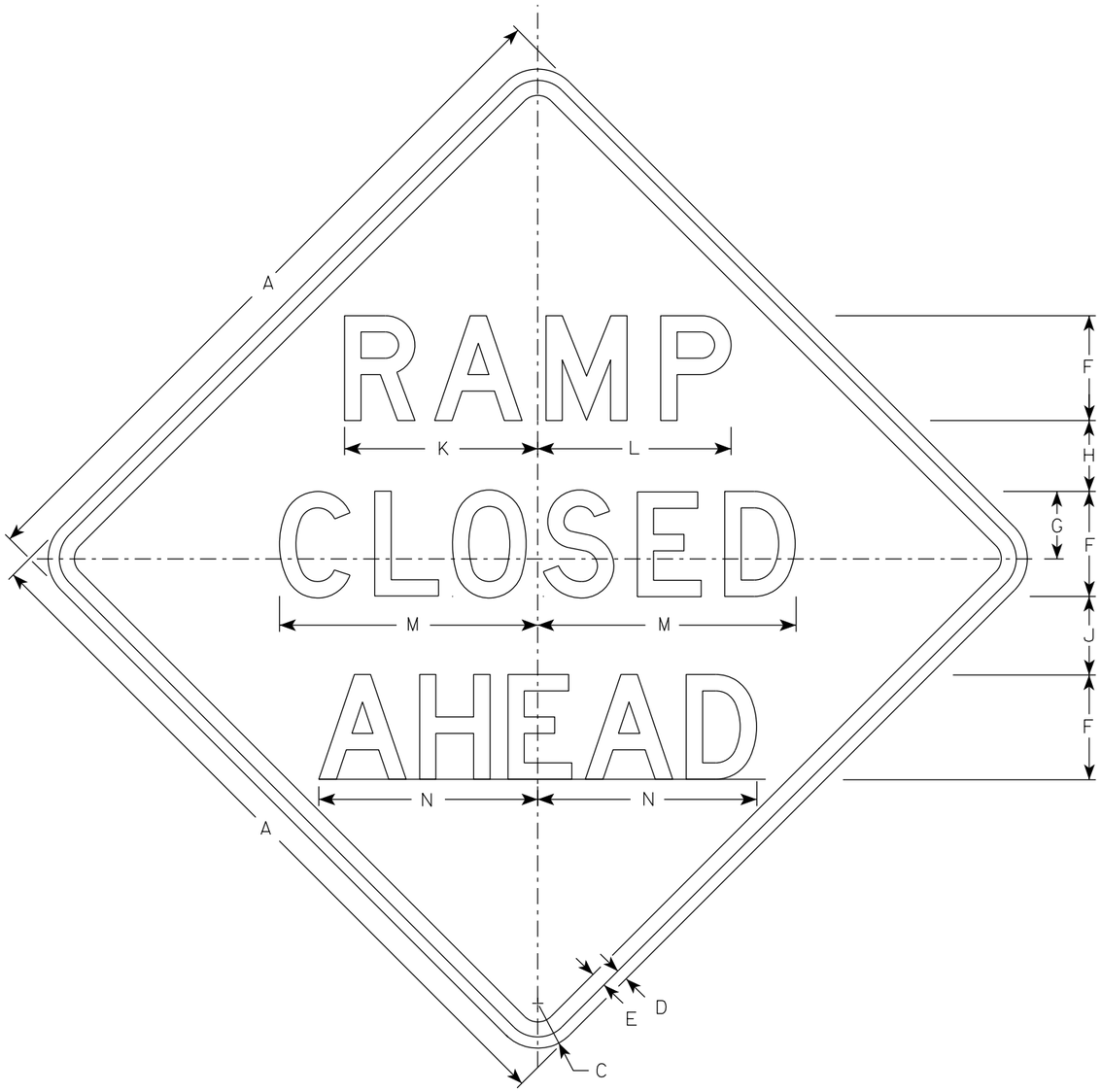
STANDARD SIGN
W20-5A, B, C, D, F & G

WISCONSIN DEPT OF TRANSPORTATION

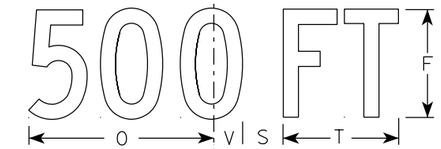
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 3/27/24 PLATE NO. W20-5.12

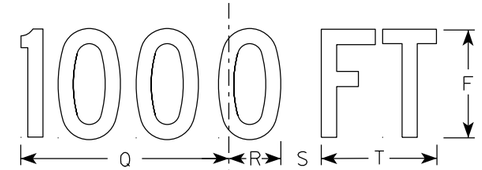
PROJECT NO:	HWY:	COUNTY:		SHEET NO: 150	E



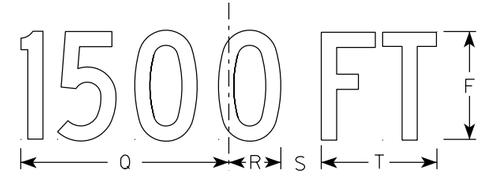
W20-53A



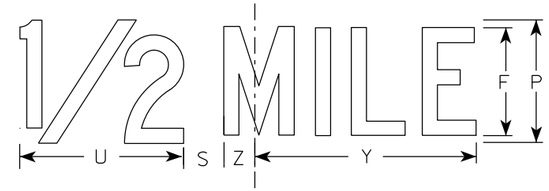
W20-53D



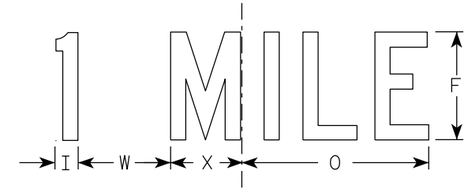
W20-53C



W20-53B



W20-53G



W20-53F

NOTES

1. Sign is Type II - Type F Reflective
2. Color:
   Background - Orange
   Message - Black
3. Message Series - see note 5
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
5. Lines 1 and 2 are Series D.
   Line 3 is Series D for AHEAD and Series C for all other distances.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	36		2 1/4	5/8	3/4	5	3 3/8	3 1/2	1 1/8	4	9 1/4	9 1/4	12 1/2	11	9	6	10 1/8	2 1/2	1 7/8	5 5/8	8	1 3/8	4 1/2	3 1/2	10 3/4	1 3/4	9.0
2S	48		3	3/4	1	7	4 1/2	4 3/4	1 1/2	5 1/4	12 7/8	12 7/8	17 1/4	14 5/8	12	8	13 1/2	3 3/8	2 5/8	7 1/2	10 5/8	1 7/8	6	4 5/8	14 3/8	2 3/8	16.0
2M	48		3	3/4	1	7	4 1/2	4 3/4	1 1/2	5 1/4	12 7/8	12 7/8	17 1/4	14 5/8	12	8	13 1/2	3 3/8	2 5/8	7 1/2	10 5/8	1 7/8	6	4 5/8	14 3/8	2 3/8	16.0
3	48		3	3/4	1	7	4 1/2	4 3/4	1 1/2	5 1/4	12 7/8	12 7/8	17 1/4	14 5/8	12	8	13 1/2	3 3/8	2 5/8	7 1/2	10 5/8	1 7/8	6	4 5/8	14 3/8	2 3/8	16.0
4	48		3	3/4	1	7	4 1/2	4 3/4	1 1/2	5 1/4	12 7/8	12 7/8	17 1/4	14 5/8	12	8	13 1/2	3 3/8	2 5/8	7 1/2	10 5/8	1 7/8	6	4 5/8	14 3/8	2 3/8	16.0
5	48		3	3/4	1	7	4 1/2	4 3/4	1 1/2	5 1/4	12 7/8	12 7/8	17 1/4	14 5/8	12	8	13 1/2	3 3/8	2 5/8	7 1/2	10 5/8	1 7/8	6	4 5/8	14 3/8	2 3/8	16.0

STANDARD SIGN
W20-53A,B,C,D,F,G

WISCONSIN DEPT OF TRANSPORTATION

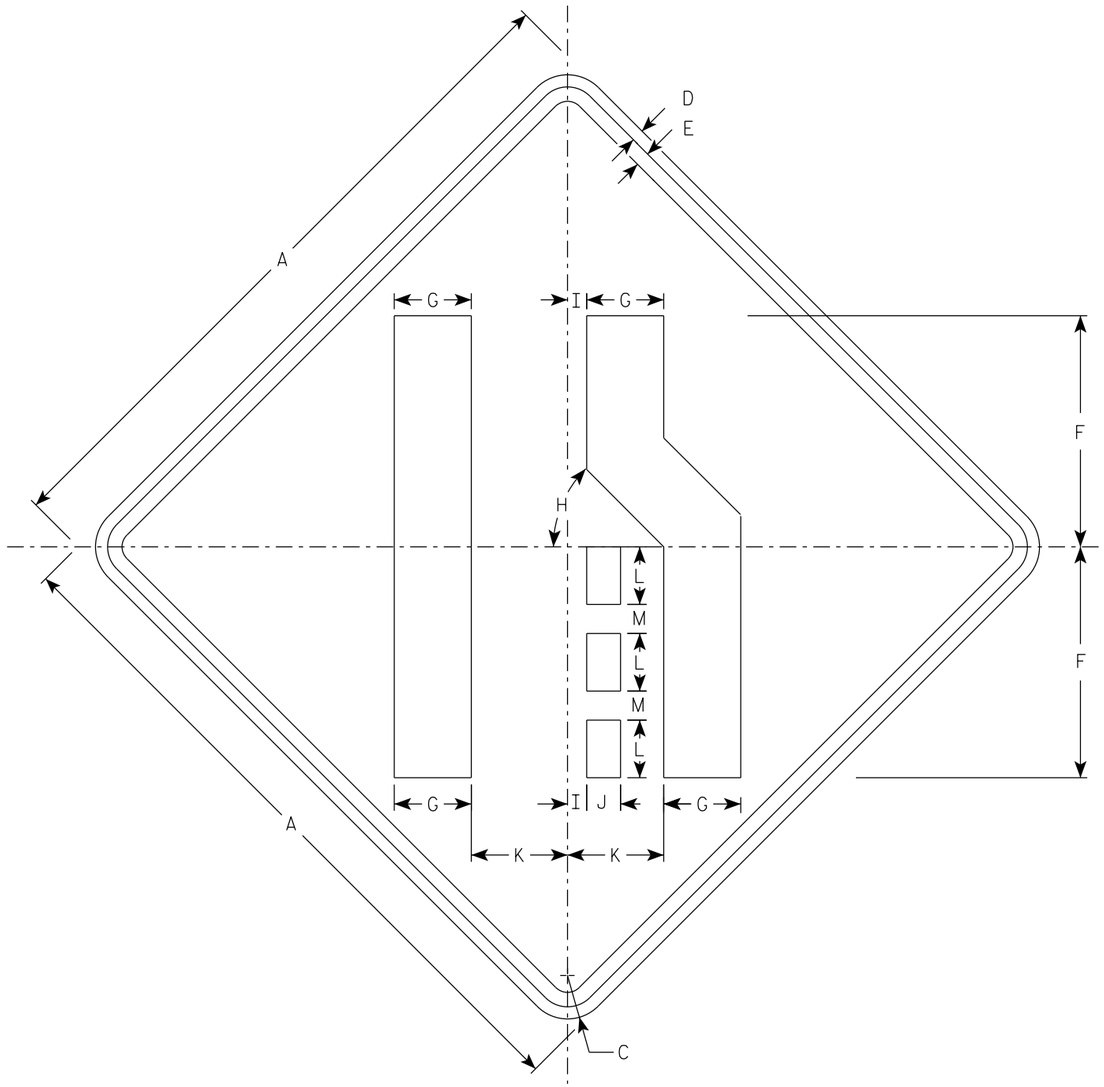
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 1/10/2024 PLATE NO. W20-53.2

7

7

PROJECT NO: | HWY: | COUNTY: | SHEET NO: E



W04-2R

NOTES

1. Sign is Type II - Type F Reflective
2. Color:
   Background - Orange
   Message - Black
3. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
4. W04-2L is the same as W04-2R except the symbol is reversed along the vertical centerline.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	36		2 1/4	5/8	3/4	12	4	45°	1	1 3/4	5	3	1 1/2														9.0
2S	48		3	3/4	1	16	5 3/8	45°	1 1/4	2 3/8	6 3/4	4	2														16.0
2M	48		3	3/4	1	16	5 3/8	45°	1 1/4	2 3/8	6 3/4	4	2														16.0
3	48		3	3/4	1	16	5 3/8	45°	1 1/4	2 3/8	6 3/4	4	2														16.0
4	48		3	3/4	1	16	5 3/8	45°	1 1/4	2 3/8	6 3/4	4	2														16.0
5	48		3	3/4	1	16	5 3/8	45°	1 1/4	2 3/8	6 3/4	4	2														16.0

STANDARD SIGN
W04-2

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 1/25/2024 PLATE NO. W04-2.2

PROJECT NO:

SHEET NO: 152 E

Notes

Wisconsin Department of Transportation

Dedicated people creating transportation solutions through innovation and exceptional service.

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