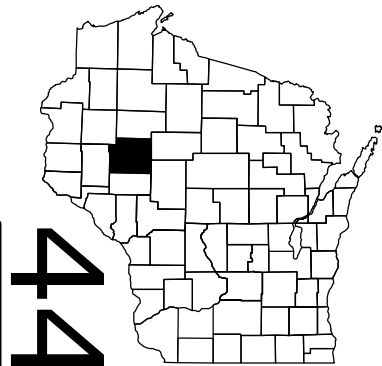


ORDER OF SHEETS

Section No.	1	Title
Section No.	2	Typical Sections and Details
Section No.	3	Estimate of Quantities
Section No.	3	Miscellaneous Quantities
Section No.	4	Right of Way Plat
Section No.	5	Plan
Section No.	6	Standard Detail Drawings
Section No.	7	Sign Plates
Section No.	8	Structure Plans
Section No.	9	Computer Earthwork Data
Section No.	9	Cross Sections

TOTAL SHEETS = 62



DESIGN DESIGNATION

A.A.D.T.	= 1,200 (2026)
A.A.D.T.	= 1,460 (2046)
D.H.V.	= N/A
D.D.	= 50/50
T.	= 5.0%
DESIGN SPEED	= 40 MPH (STH 64- CTH Z) 50 MPH (CTH Z - 239TH AVENUE) 60 MPH (239TH AVENUE - CTH M)
ESALS	= 410,000

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	
EXISTING CULVERT	
PROPOSED CULVERT (Box or Pipe)	
COMBUSTIBLE FLUIDS	
MARSH AREA	
WOODED OR SHRUB AREA	

PROFILE	
GRADE LINE	
ORIGINAL GROUND	
MARSH OR ROCK PROFILE (To be noted as such)	
SPECIAL DITCH	
GRADE ELEVATION	
CULVERT (Profile View)	
UTILITIES	
ELECTRIC	
FIBER OPTIC	
GAS	
SANITARY SEWER	
STORM SEWER	
TELEPHONE	
WATER	
UTILITY PEDESTAL	
POWER POLE	
TELEPHONE POLE	

END PROJECT
STA 230+00
Y = 232,105.7508
X = 228,325.0490

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

PLAN OF PROPOSED IMPROVEMENT

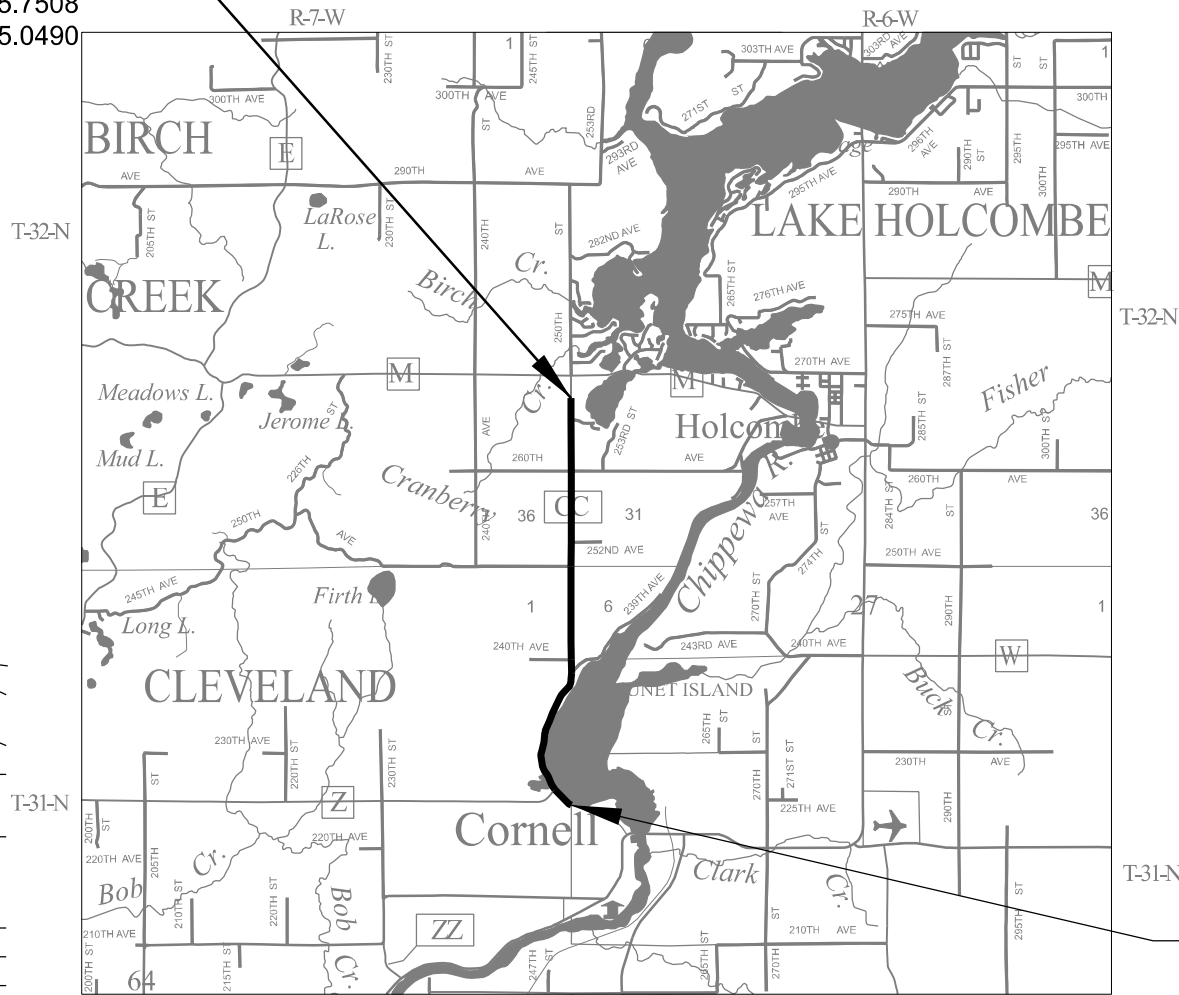
STH 64 - CTH M

STH 64 TO CTH M

CTH CC

CHIPPEWA COUNTY

STATE PROJECT NUMBER
8908-03-71



LAYOUT
SCALE 0 2 MI

TOTAL NET LENGTH OF CENTERLINE = 3.580 MILES

HORIZONTAL POSITIONS SHOWN ON THIS PLAN ARE WISCONSIN
COORDINATE REFERENCE SYSTEM (WISCRS), CHIPPEWA COUNTY,
NAD83(2011), IN U.S. SURVEY FEET

BEGIN PROJECT
STA 41+00
Y = 214,482.5201
X = 228,725.5354

STATE PROJECT

FEDERAL PROJECT

PROJECT

CONTRACT

8908-03-71

WISC 2026198

1

ACCEPTED FOR

CHIPPEWA COUNTY

Date 10/1/25 Chris Estran
Highway Commissioner

ORIGINAL PLANS PREPARED BY

AECOM



Siegler, Bill

DATE: _____
(Professional Engineer Signature)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

PREPARED BY

Surveyor	NA
Designer	AECOM
Project Manager	MATTHEW BERG
Regional Examiner	WISDOT NW REGION
Regional Supervisor	TOU YANG

APPROVED FOR THE DEPARTMENT

DATE: _____
Matthew Berg
(Signature)

E

2

UTILITY CONTACTS

BRIGHTSPEED COMMUNICATIONS
BRIAN HUHN
425 ELLINGSON AVENUE
HAWKINS, WI 54530
PHONE: 715-563-8294
EMAIL: BRIAN.HUHN@BRIGHTSPEED.COM

CHIPPEWA VALLEY ELECTRIC COOP
ELECTRICAL
NIC ALBERSON
317 SOUTH 8TH STREET
CORNELL, WI 54732
PHONE: 715-239-6800
EMAIL: NALBERSON@CVE.COOP

CITIZENS CONNECTED/NTERA
FIBER
TYLER RICHTER
317 SOUTH 8TH STREET
CORNELL, WI 54732
PHONE: 833-466-8372
EMAIL: TRICHTER@CITIZENS-CONNECTED.COM

DIGGERSHOTLINE

Dial 811 or (800)242-8511

www.DiggersHotline.com

WISCONSIN DNR LIAISON

LEAH NICOL
WDNR NW REGION
1300 WEST CLAIREMONT AVENUE
EAU CLAIRE, WI 54701
PHONE: 715-934-9014
EMAIL: leah.nicol@wisconsin.gov

DESIGN PROJECT MANAGER

MATTHEW BERG, PE
WISDOT NW REGION
718 WEST CLAIREMONT AVENUE
EAU CLAIRE, WI 54701
PHONE: 920-492-4147
EMAIL: matthew.berg@dot.wi.gov

COUNTY CONTACT

FRED ANDERSON, PE
CHIPPEWA COUNTY HIGHWAY DEPARTMENT
801 EAST GRAND AVENUE
CHIPPEWA FALLS, WI 54729
PHONE: 715-726-7914
EMAIL: fanderson@chippewacountywi.gov

DESIGN CONTACT

BILL SIEGLER, PE
AECOM
800 LASALLE AVENUE, SUITE 1100
MINNEAPOLIS, MN 55402
PHONE: 612-376-2000
EMAIL: bill.siegler@aecom.com

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.

TACK COAT APPLICATION RATE BASED ON 0.060 GAL/SY

HMA PAVEMENT WEIGHT CALCULATIONS ARE BASED ON 110 LBS/SY/IN.

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

RIGHT OF WAY INFORMATION SHOWN ON THE PLANS IS APPROXIMATE.

STANDARD ABBREVIATIONS

ABUT
AC
AGG
AH
∠
AADT
AEW
ASPH
BK
BC
BAD
BL OR B/L
BM
CB
CL OR C/L
Δ
CE
CONC
CSW
CONST
CP
CO
CTH
CY
CP
CPS
CPT
C & G
D
DHV
DIA
DD
DE
DWH
EA
EB
EL OR ELEV
EMB
EW
EAT
ESALS
EXC
EBS
EXIST
FERT
FE
FL OR F/L
FT
FTMS
HES
HE
CWT
IN DIA
INL
ID
INTERS
IH
INV
JT
LT

ABUTMENT
ACRE
AGGREGATE
AHEAD
ANGLE
ANNUAL AVERAGE DAILY TRAFFIC
APRON ENDWALL
ASPHALTIC
BACK
BACK OF CURB
BASE AGGREGATE DENSE
BASE LINE
BENCH MARK
CATCH BASIN
CENTER LINE
CENTRAL ANGLE OR DELTA
COMMERCIAL ENTRANCE
CONCRETE
CONCRETE SIDEWALK
CONSTRUCTION
CONTROL POINT
COUNTY
COUNTY TRUCK HIGHWAY
CUBIC YARD
CULVERT PIPE
CULVERT PIPE SALVAGED
CULVERT PIPE TEMPORARY
CURB AND GUTTER
DEGREE OF CURVE
DESIGN HOUR VOLUME
DIAMETER
DIRECTIONAL DISTRIBUTION
DRAINAGE EASEMENT
DRIVEWAY
EACH
EASTBOUND
ELEVATION
EMBANKMENT
ENDWALL
ENERGY ABSORBING TERMINAL
EQUIVALENT SINGLE AXLE LOADS
EXCAVATION
EXCAVATION BELOW SUBGRADE
EXISTING
FERTILIZER
FIELD ENTRANCE
FLOW LINE
FOOT
FREE TRAFFIC MANAGEMENT SYSTEM
HIGH EARLY STRENGTH
HIGHWAY EASEMENT
HUNDRED WEIGHT
INCH DIAMETER
INLET
INSIDE DIAMETER
INTERSECTION
INTERSTATE HIGHWAY
INVERT
JOINT
LEFT

JT
JOINT
LT
LEFT
LHF
LEFT HAND FORWARD
L
LENGTH OF CURVE
LF
LINEAR FOOT
LC
LONG CHORD OF CURVE
LS
LUMP SUM
MGAL
ONE THOUSAND GALLONS
MH
MANHOLE
ML OR M/L
MATCH LINE
NOM
NOMINAL
NC
NORMAL CROWN
NB
NORTHBOUND
NO
NUMBER
OD
OUTSIDE DIAMETER
PAVT
PAVEMENT
PLE
PERMANENT LIMITED EASEMENT
PC
POINT OF CURVATURE
PI
POINT OF INTERSECTION
PT
POINT OF TANGENCY
PCC
PORTLAND CEMENT CONCRETE
LB
POUND
PSI
POUNDS PER SQUARE INCH
PE
PRIVATE ENTRANCE
PROJ
PROJECT
PL
PROPERTY LINE
PRW
PROPOSED RIGHT OF WAY
R
RADIUS
RL OR R/L
REFERENCE LINE
REQD
REQUIRED
RT
RIGHT
RHF
RIGHT HAND FORWARD
R/W
RIGHT OF WAY
RD
ROAD
RDWY
ROADWAY
SHLDR
SHOULDER
SW
SIDEWALK
SB
SOUTHBOUND
SPECS
SPECIFICATIONS
SF
SQUARE FEET
SY
SQUARE YARD
SDD
STANDARD DETAIL DRAWINGS
STH
STATE TRUNK HIGHWAY
STA
STATION
SE
SUPERELEVATION
SL OR S/L
SURVEY LINE
TEMP
TEMPORARY
TI
TEMPORARY INTEREST
TLE
TEMPORARY LIMITED EASEMENT
TC
TOP OF CURB
TL OR T/L
TRANSIT LINE
T
TRUCKS (PERCENT OF)
TYP
TYPICAL
USH
UNITED STATES HIGHWAY
VAR
VARIABLE
VC
VERTICAL CURVE
VPC
VERTICAL POINT OF CURVATURE
VPI
VERTICAL POINT OF INTERSECTION
VPT
VERTICAL POINT OF TANGENCY
W
WEST
WB
WESTBOUND

RUNOFF COEFFICIENT TABLE

LAND USE:	HYDROLOGIC SOIL GROUP											
	A			B			C			D		
	SLOPE RANGE (PERCENT)			SLOPE RANGE (PERCENT)			SLOPE RANGE (PERCENT)			SLOPE RANGE (PERCENT)		
ROW CROPS:	.08	.16	.22	.12	.20	.27	.15	.24	.33	.19	.28	.38
	.22	.30	.38	.26	.34	.44	.30	.37	.50	.34	.41	.56
MEDIAN STRIPTURF:	.19	.20	.24	.19	.22	.26	.20	.23	.30	.20	.25	.30
	.24	.26	.30	.25	.28	.33	.26	.30	.37	.27	.32	.40
SIDE SLOPETURF:			.25			.27			.28			.30
			.32			.34			.36			.38
PAVEMENT:												
ASPHALT:	.70- .95											
CONCRETE:	.80- .95											
BRICK:	.70- .80											
DRIVES, WALKS:	.75- .85											
ROOFS:	.75- .95											
GRAVEL ROADS, SHOULDERS:	.40- .60											

TOTAL PROJECT AREA = ____ NA ____ ACRES
TOTAL AREA EXPECTED TO BE DISTURBED BY CONSTRUCTION ACTIVITIES = ____ NA ____ ACRES
MINIMAL DISTURBANCE ANTICIPATED FOR THIS PROJECT. MINOR AREAS OF NEW SIGN PLACEMENT

ORDER OF SECTION 2 DETAIL SHEETS

GENERAL NOTES
PROJECT OVERVIEW
TYPICAL SECTIONS
CONSTRUCTION DETAILS
ALIGNMENT PLAN

PROJECT NO: 8908-03-71

HWY: CTH CC

COUNTY: CHIPPEWA

GENERAL NOTES

SHEET 2

E

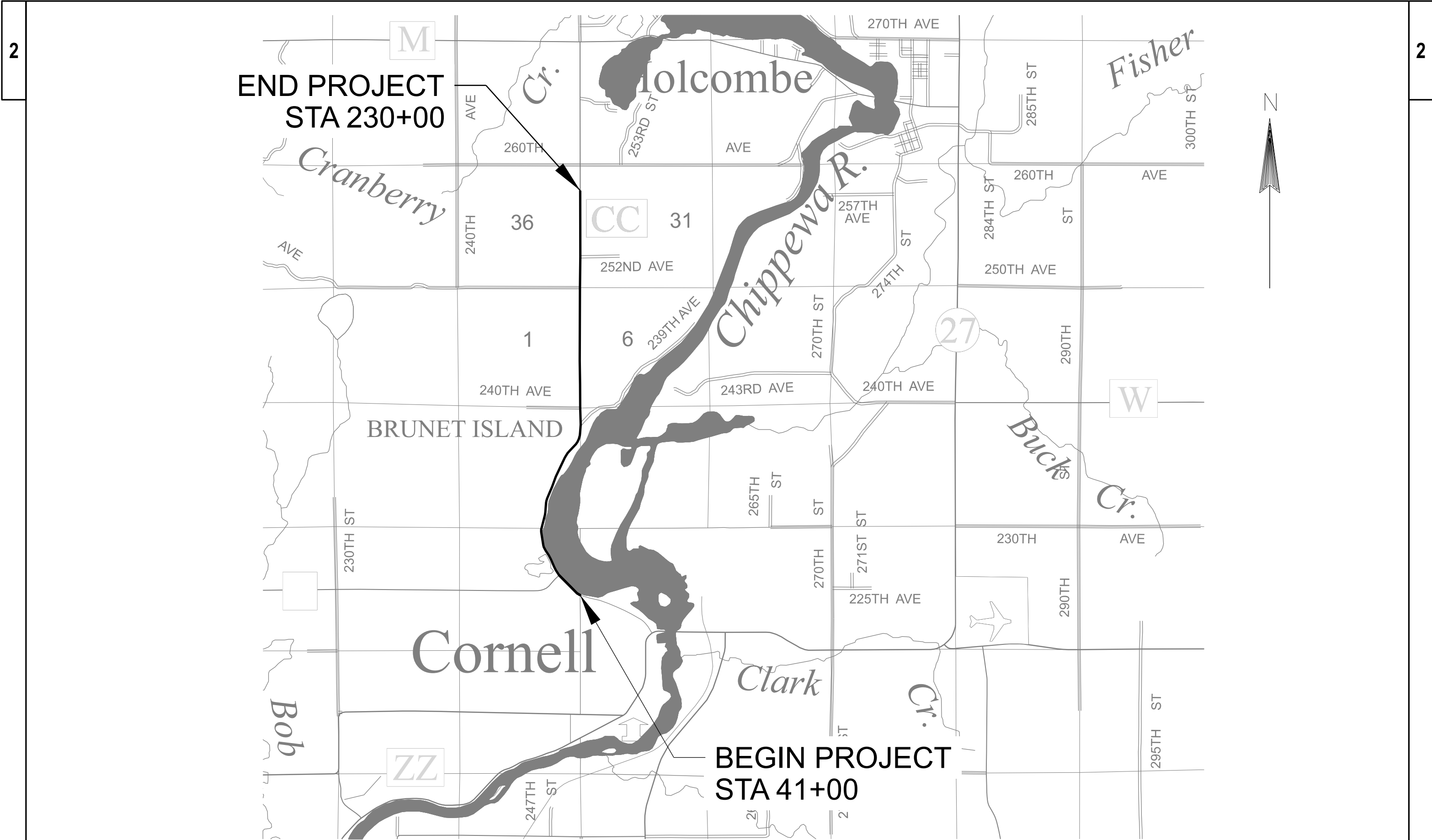
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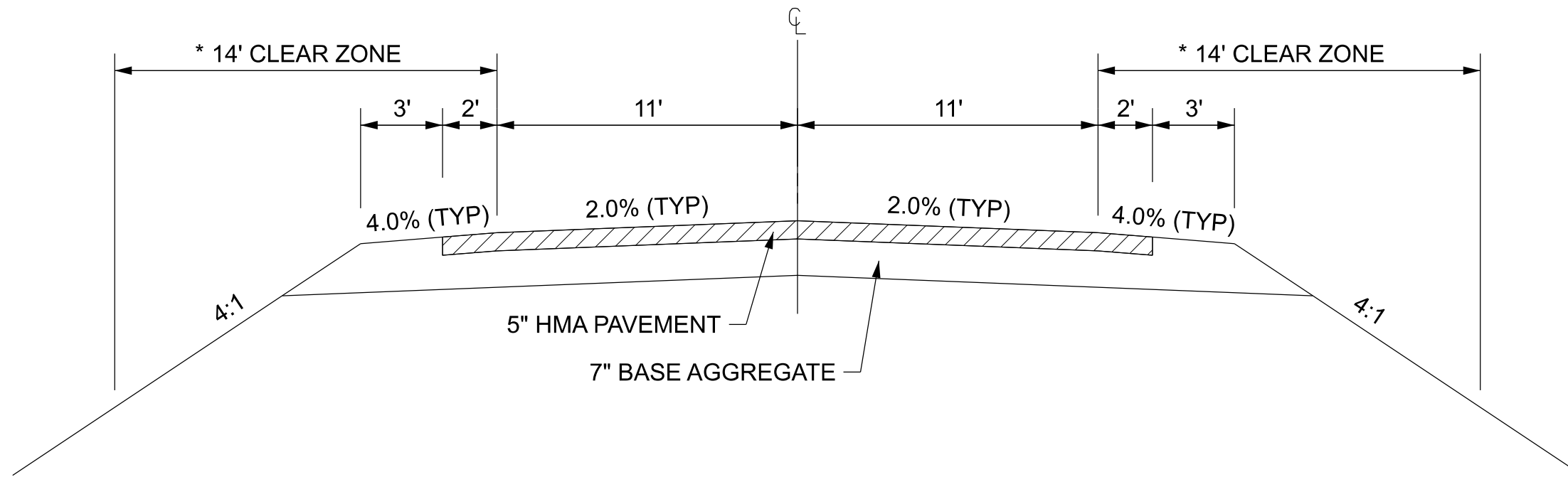
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PLOT BY :

PLOT NAME : ...\\910_CAD\20_SHEETS\gn01.dgn

WISDOT/CADDs SHEET 42

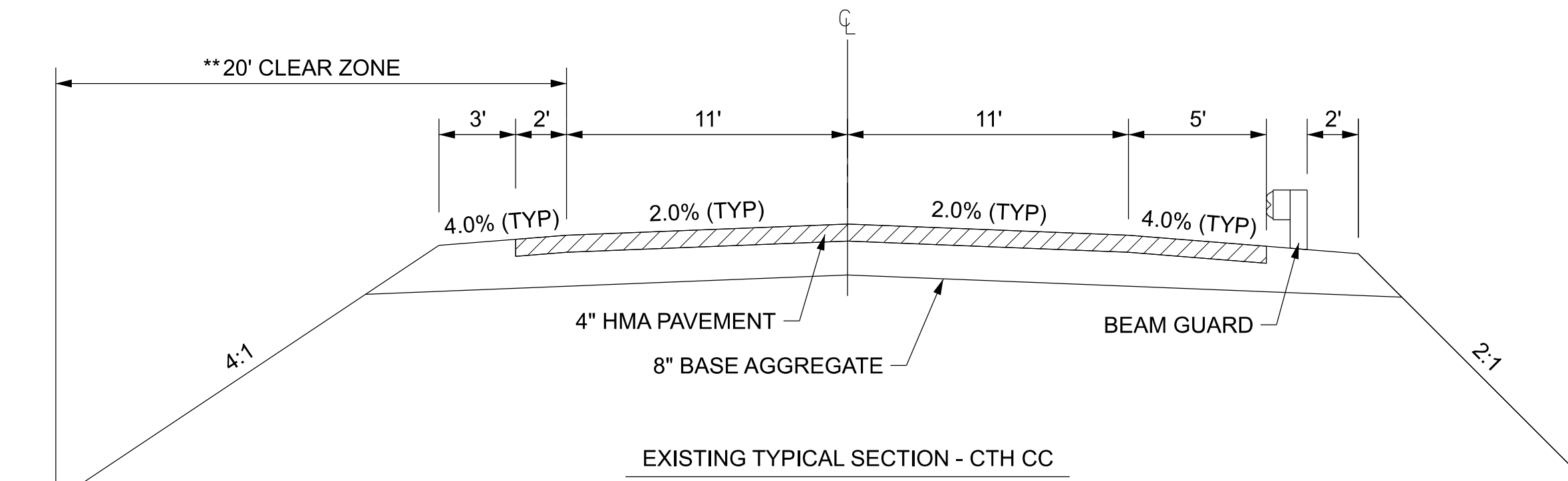




* 40 MPH DESIGN SPEED

EXISTING TYPICAL SECTION - CTH CC

STA. 41+00 - STA. 56+12

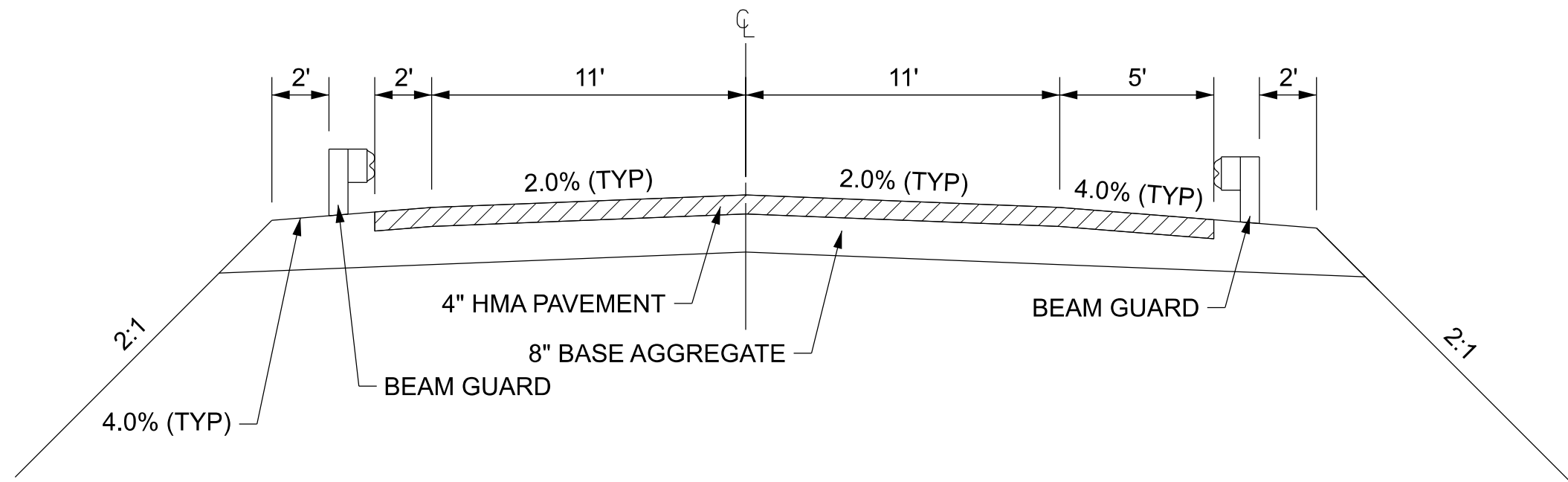


** 50 MPH DESIGN SPEED

EXISTING TYPICAL SECTION - CTH CC

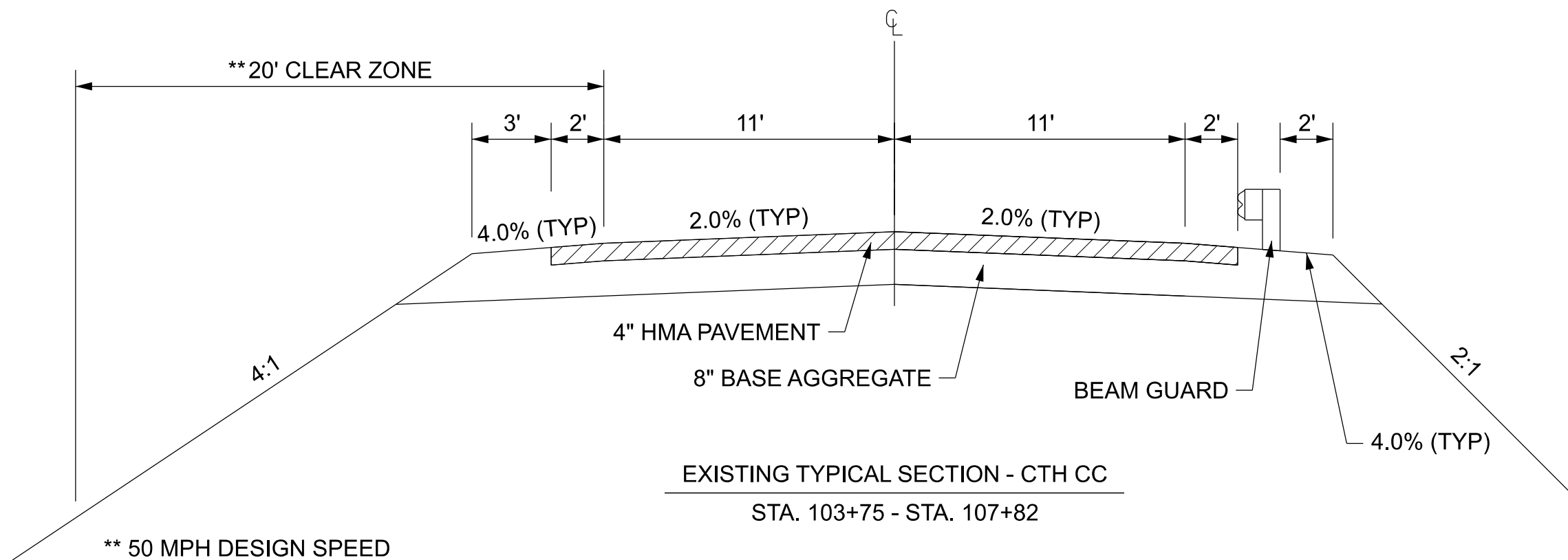
STA. 56+12 - STA. 62+93

STA. 69+49 - STA. 103+75



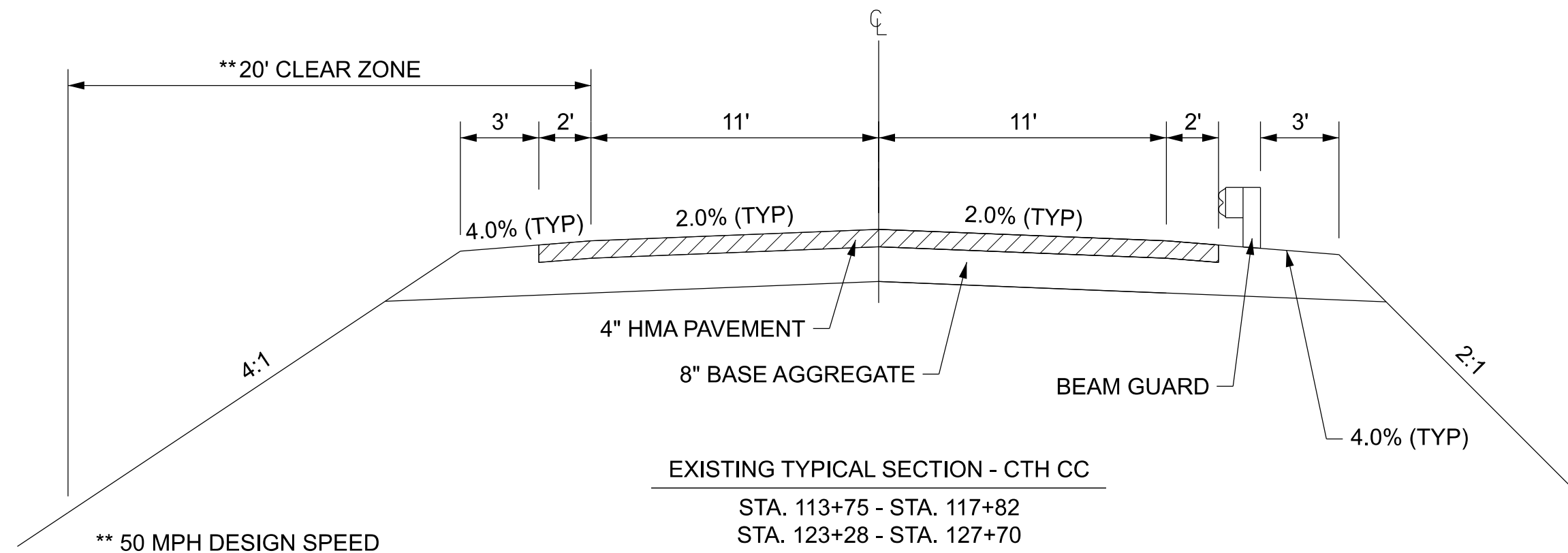
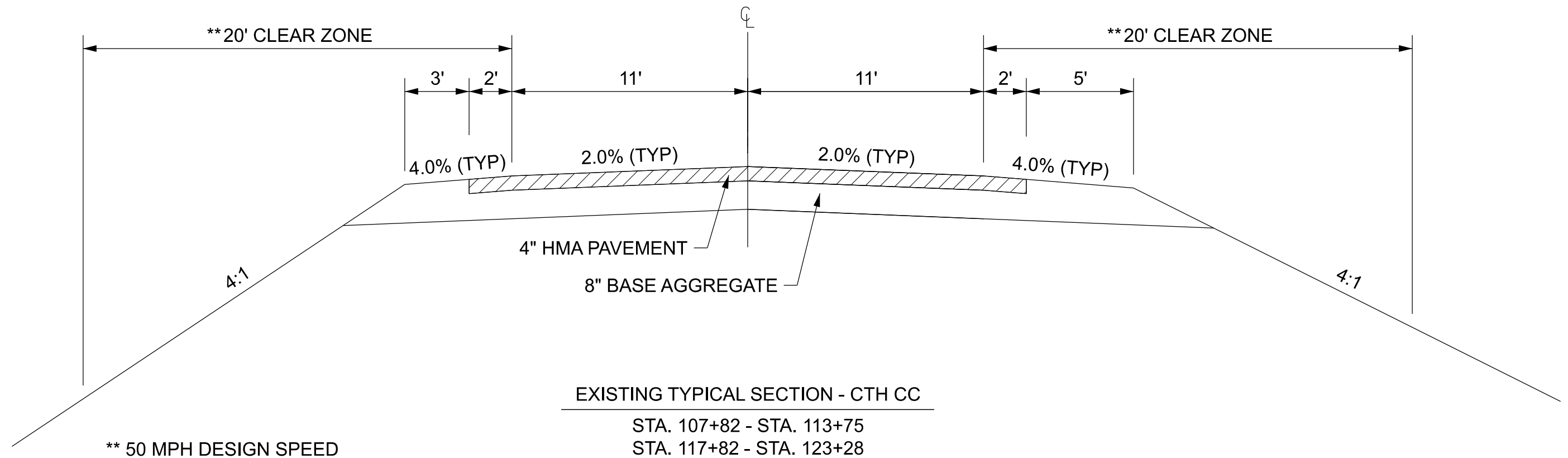
EXISTING TYPICAL SECTION - CTH CC

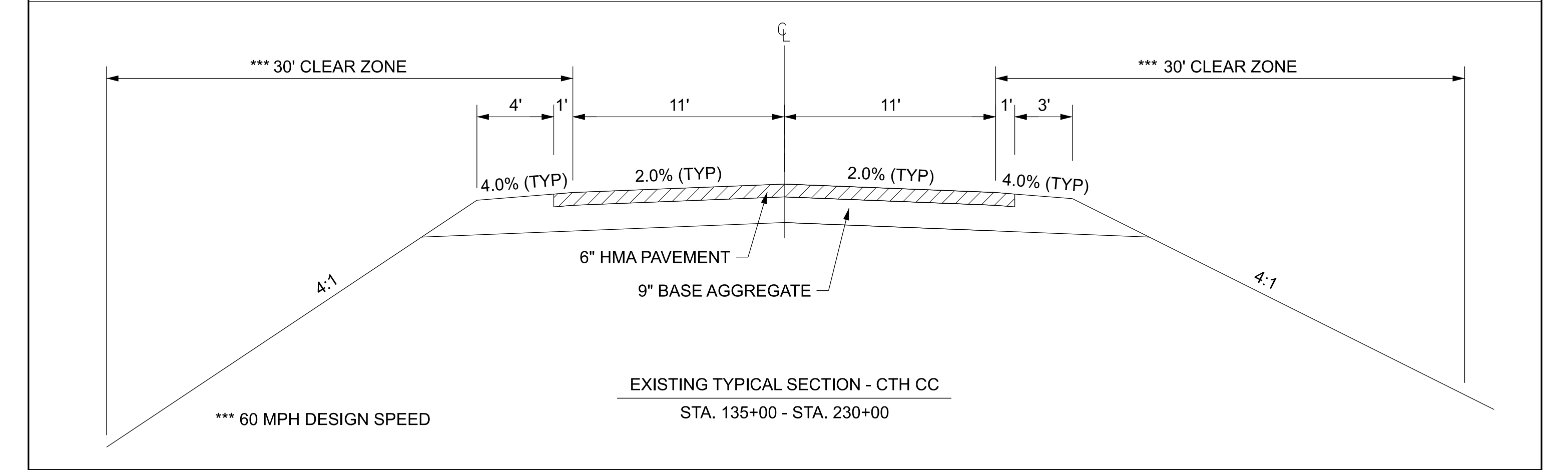
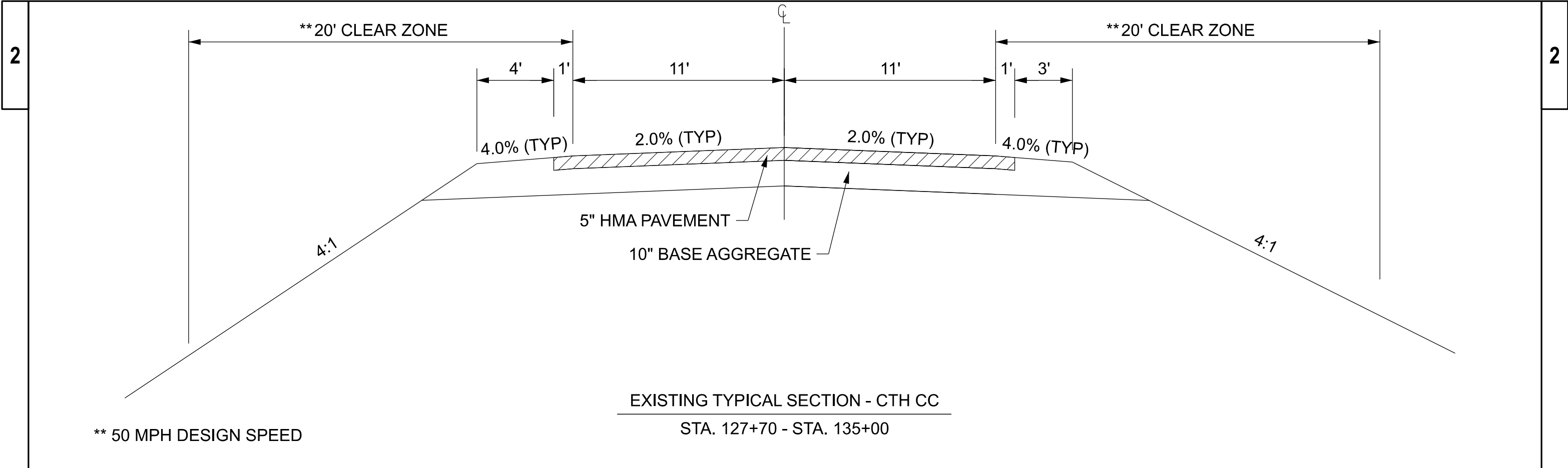
STA. 62+93 - STA. 69+49

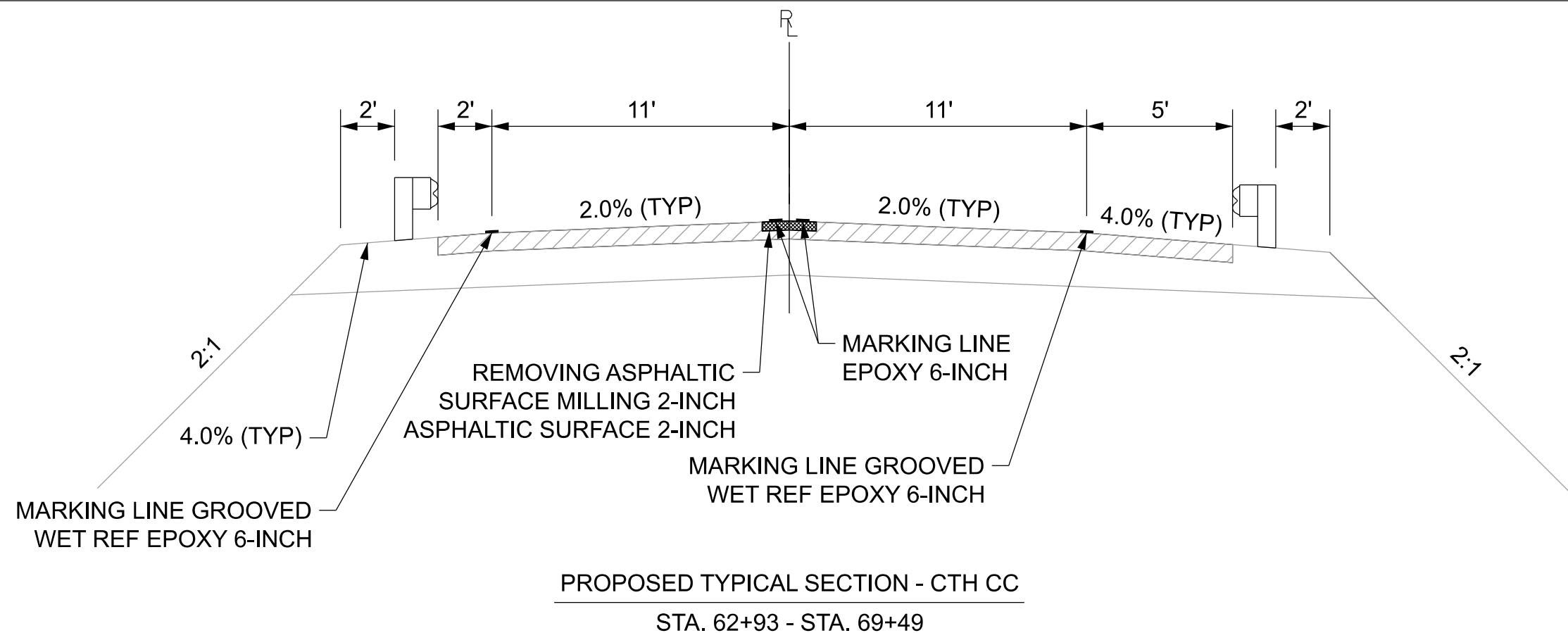
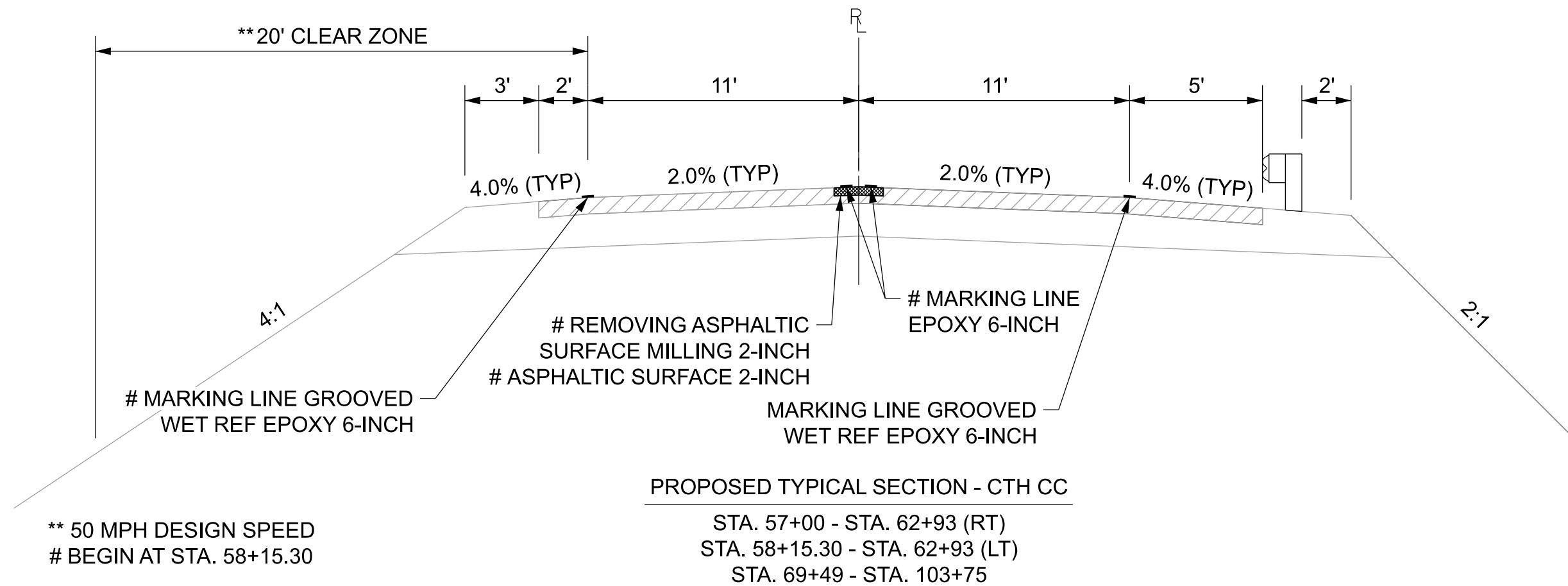


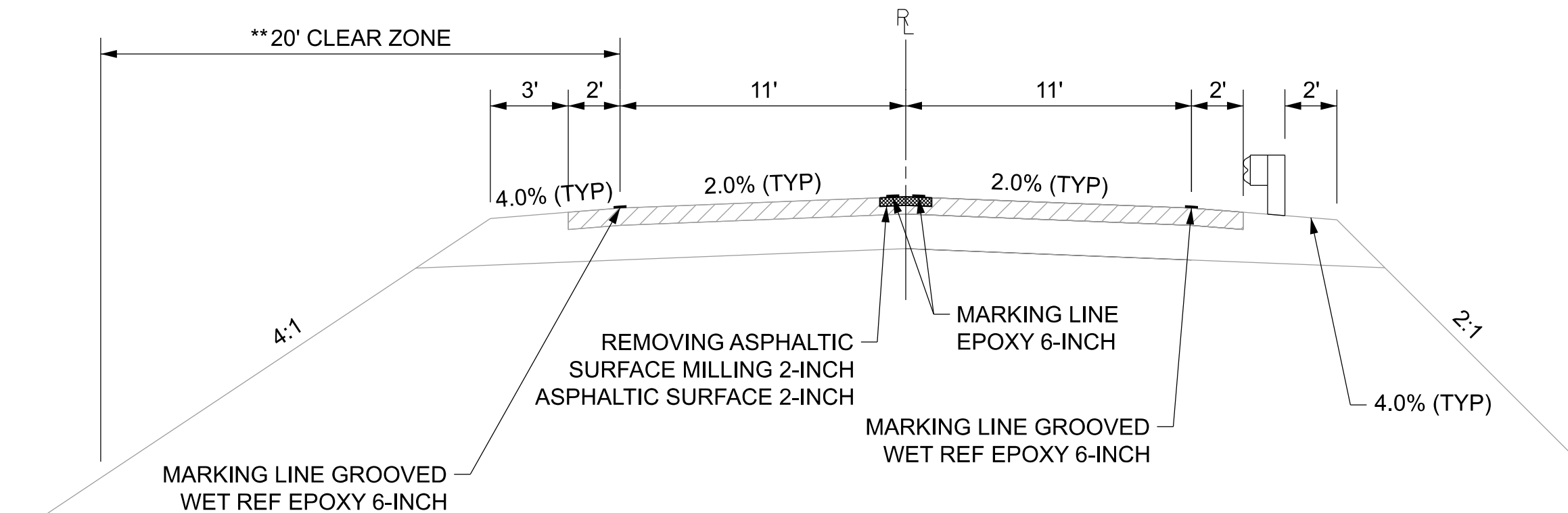
EXISTING TYPICAL SECTION - CTH CC

STA. 103+75 - STA. 107+82





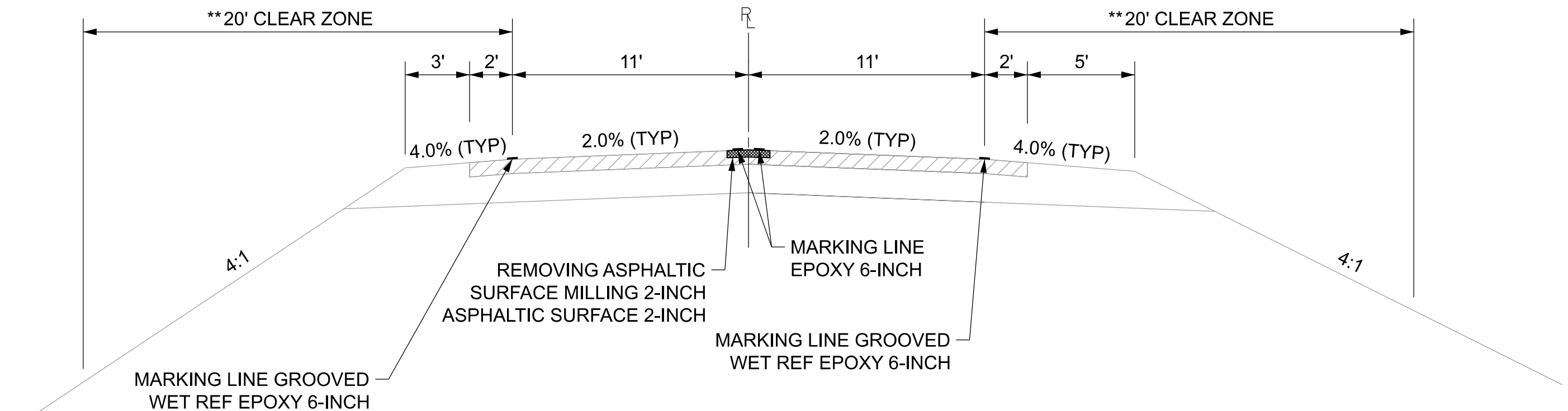




** 50 MPH DESIGN SPEED

PROPOSED TYPICAL SECTION - CTH CC

STA. 103+75 - STA. 107+82

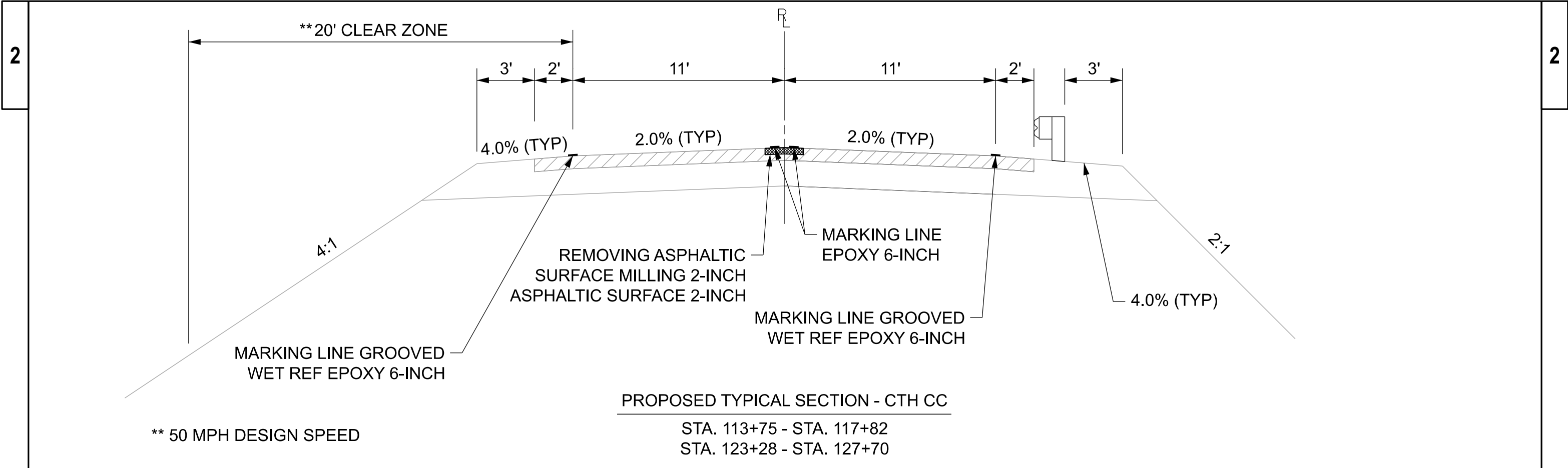


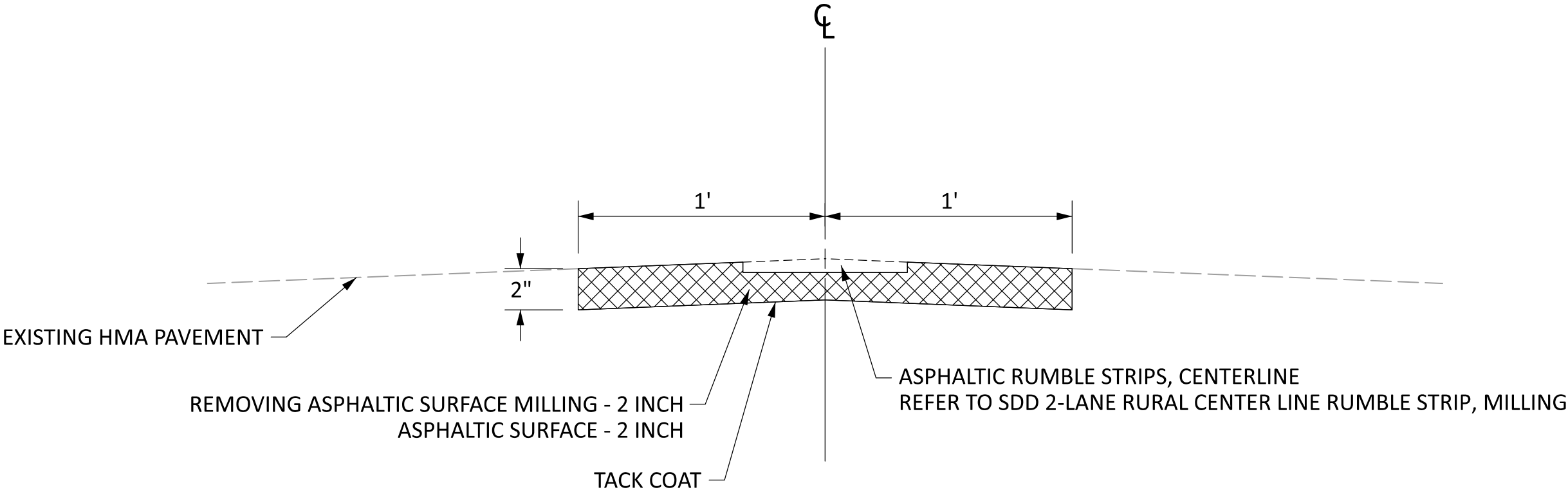
** 50 MPH DESIGN SPEED

PROPOSED TYPICAL SECTION - CTH CC

STA. 107+82 - STA. 113+75

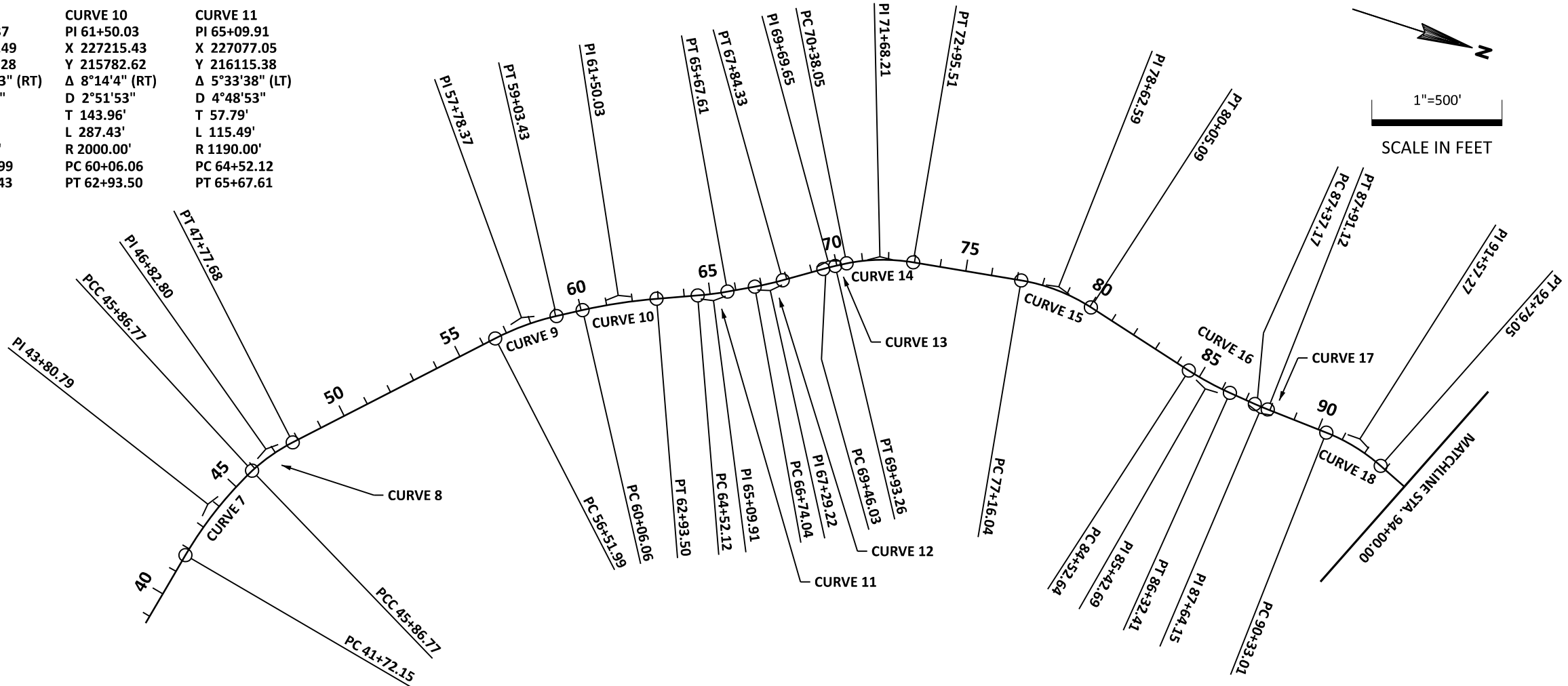
STA. 117+82 - STA. 123+28





RUMBLE STRIP INSTALLATION

CURVE 7	CURVE 8	CURVE 9	CURVE 10	CURVE 11
PI 43+80.79	PI 46+82.80	PI 57+78.37	PI 61+50.03	PI 65+09.91
X 228451.27	X 228183.83	X 227406.49	X 227215.43	X 227077.05
Y 214542.71	Y 214688.63	Y 215462.28	Y 215782.62	Y 216115.38
Δ 15°50'15" (RT)	Δ 15°23'3" (RT)	Δ 14°24'23" (RT)	Δ 8°14'4" (RT)	Δ 5°33'38" (LT)
D 3°49'11"	D 8°3'31"	D 5°43'46"	D 2°51'53"	D 4°48'53"
T 208.64'	T 96.03'	T 126.39'	T 143.96'	T 57.79'
L 414.62'	L 190.91'	L 251.44'	L 287.43'	L 115.49'
R 1500.00'	R 711.00'	R 1000.00'	R 2000.00'	R 1190.00'
PC 41+72.15	PC 45+86.77	PC 56+51.99	PC 60+06.06	PC 64+52.12
PT 45+86.77	PT 47+77.68	PT 59+03.43	PT 62+93.50	PT 65+67.61



CURVE 12	CURVE 13	CURVE 14	CURVE 15	CURVE 16
PI 67+29.22	PI 69+69.65	PI 71+68.21	PI 78+62.59	PI 85+42.69
X 226973.58	X 226841.01	X 226742.15	X 226639.95	X 226815.48
Y 216308.84	Y 216509.51	Y 216681.68	Y 217371.39	Y 218032.64
Δ 5°18'38" (LT)	Δ 2°16'28" (RT)	Δ 20°44'51" (RT)	Δ 23°17'37" (RT)	Δ 8°39'20" (LT)
D 4°48'53"	D 4°48'53"	D 8°3'31"	D 8°3'31"	D 4°48'53"
T 55.19'	T 23.62'	T 130.16'	T 146.55'	T 90.06'
L 110.30'	L 47.24'	L 257.46'	L 289.06'	L 179.77'
R 1190.00'	R 1190.00'	R 711.00'	R 711.00'	R 1190.00'
PC 66+74.04	PC 69+46.03	PC 70+38.05	PC 77+16.04	PC 84+52.64
PT 67+84.33	PT 69+93.26	PT 72+95.51	PT 80+05.09	PT 86+32.41

CURVE 17	CURVE 18
PI 87+64.15	PI 91+57.27
X 226839.47	X 226864.24
Y 218253.14	Y 218645.49
Δ 2°35'51" (LT)	Δ 19°49'37" (RT)
D 4°48'53"	D 8°3'31"
T 26.98'	T 124.26'
L 53.95'	L 246.04'
R 1190.00'	R 711.00'
PC 87+37.17	PC 90+33.01
PT 87+91.12	PT 92+79.05

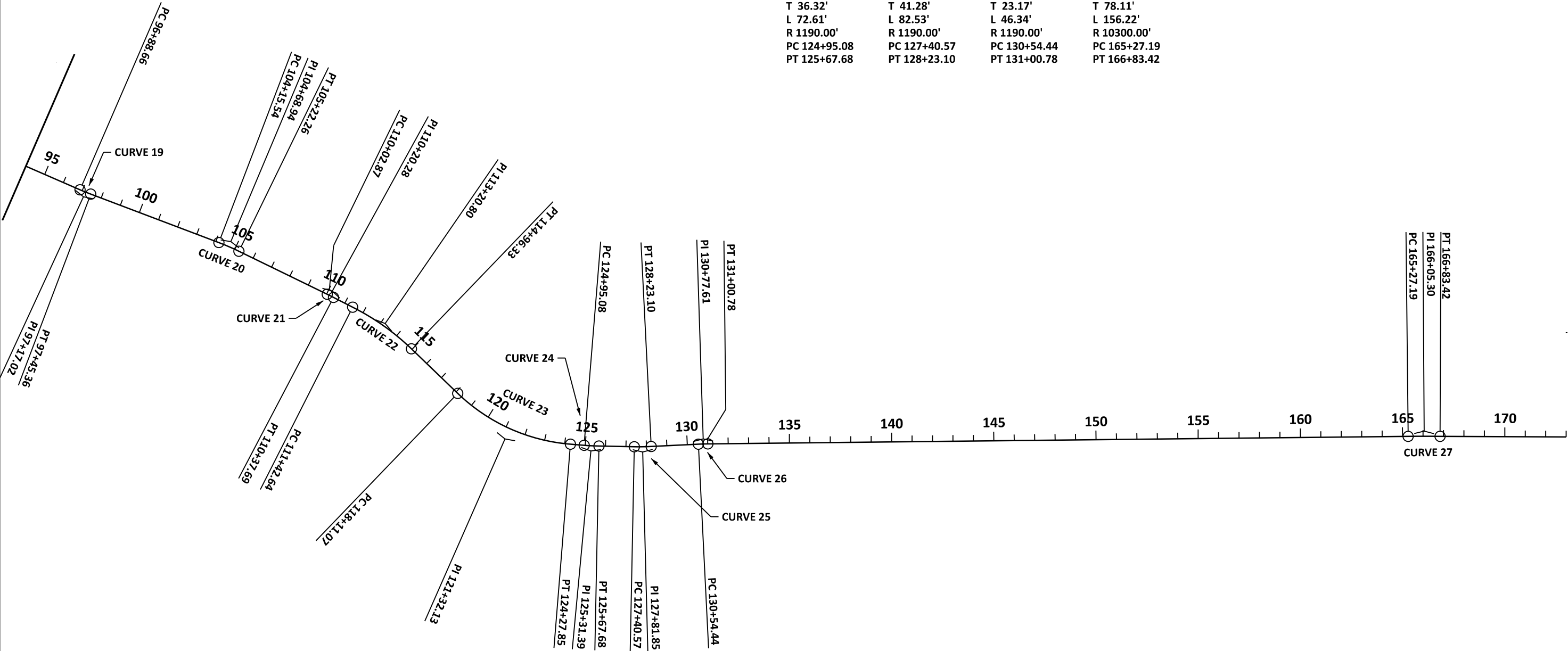
CURVE 19	CURVE 20	CURVE 21	CURVE 22	CURVE 23
PI 97+17.02	PI 104+68.94	PI 110+20.28	PI 113+20.80	PI 121+32.13
X 227087.88	X 227353.90	X 227595.50	X 227731.51	X 228295.84
Y 219161.32	Y 219864.62	Y 220360.30	Y 220628.28	Y 221214.84
Δ 2°43'49" (LT)	Δ 5°8'18" (RT)	Δ 1°40'36" (RT)	Δ 17°1'45" (RT)	Δ 39°15'56" (LT)
D 4°48'53"	D 4°48'53"	D 4°48'53"	D 4°48'53"	D 6°21'58"
T 28.36'	T 53.39'	T 17.41'	T 178.16'	T 321.06'
L 56.71'	L 106.72'	L 34.82'	L 353.68'	L 616.78'
R 1190.00'	R 1190.00'	R 1190.00'	R 1190.00'	R 900.00'
PC 96+88.66	PC 104+15.54	PC 110+02.87	PC 111+42.64	PC 118+11.07
PT 97+45.36	PT 105+22.26	PT 110+37.69	PT 114+96.33	PT 124+27.85

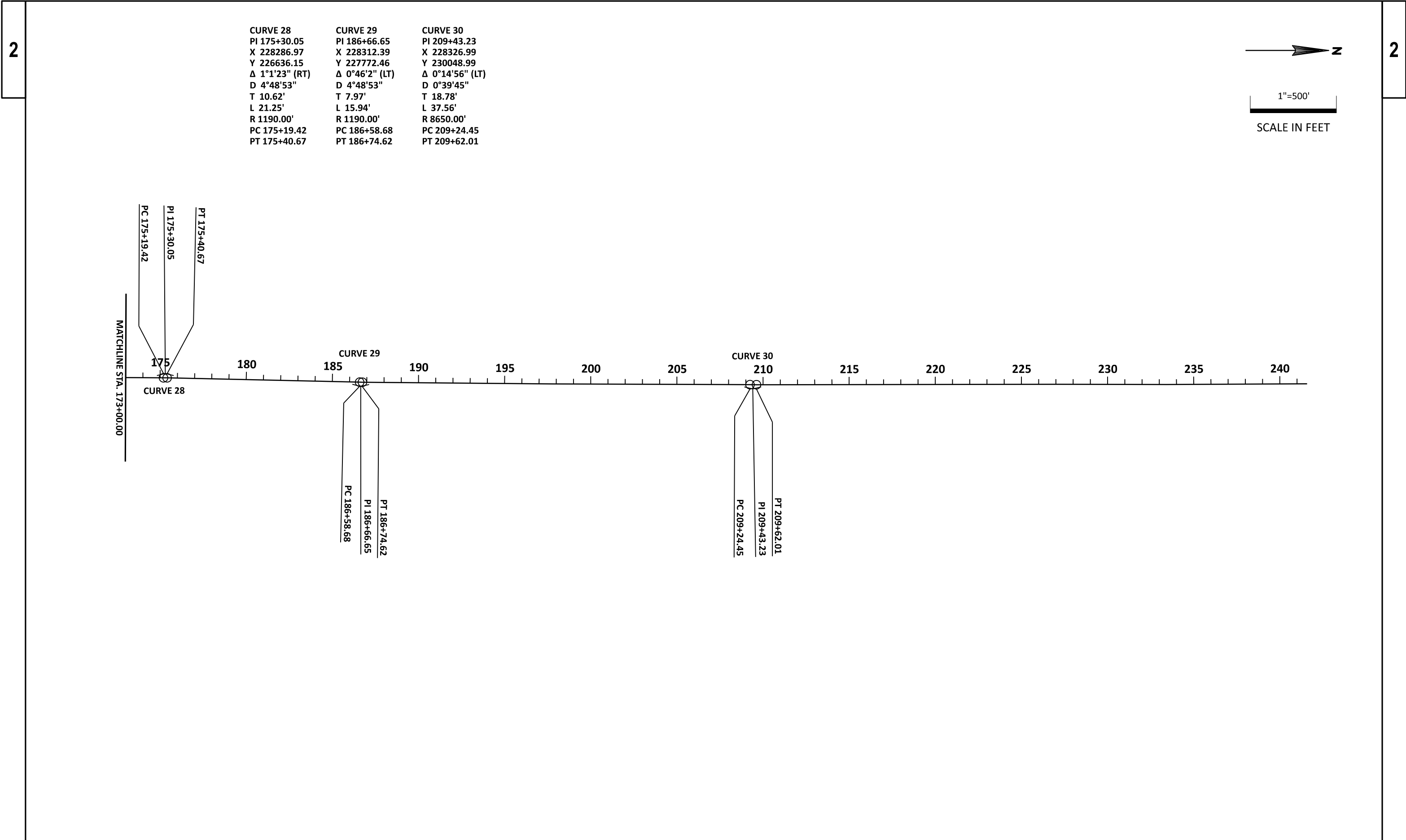
CURVE 24	CURVE 25	CURVE 26	CURVE 27
PI 125+31.39	PI 127+81.85	PI 130+77.61	PI 166+05.30
X 228330.10	X 228335.05	X 228320.38	X 228282.80
Y 221638.05	Y 221888.48	Y 222183.91	Y 225711.41
Δ 3°29'45" (LT)	Δ 3°58'24" (LT)	Δ 2°13'52" (RT)	Δ 0°52'9" (RT)
D 4°48'53"	D 4°48'53"	D 4°48'53"	D 0°33'23"
T 36.32'	T 41.28'	T 23.17'	T 78.11'
L 72.61'	L 82.53'	L 46.34'	L 156.22'
R 1190.00'	R 1190.00'	R 1190.00'	R 10300.00'
PC 124+95.08	PC 127+40.57	PC 130+54.44	PC 165+27.19
PT 125+67.68	PT 128+23.10	PT 131+00.78	PT 166+83.42



1"=500'

SCALE IN FEET





Estimate Of Quantities

8908-03-71

Line	Item	Item Description	Unit	Total	Qty
0002	204.0120	Removing Asphaltic Surface Milling	SY	1,550.000	1,550.000
0004	455.0605	Tack Coat	GAL	93.000	93.000
0006	465.0105	Asphaltic Surface	TON	170.000	170.000
0008	465.0560	Asphaltic Rumble Strips, Centerline	LF	6,955.000	6,955.000
0010	619.1000	Mobilization	EACH	1.000	1.000
0012	634.0612	Posts Wood 4x6-Inch X 12-FT	EACH	20.000	20.000
0014	634.0614	Posts Wood 4x6-Inch X 14-FT	EACH	3.000	3.000
0016	634.0616	Posts Wood 4x6-Inch X 16-FT	EACH	11.000	11.000
0018	634.0618	Posts Wood 4x6-Inch X 18-FT	EACH	2.000	2.000
0020	637.2230	Signs Type II Reflective F	SF	198.120	198.120
0022	638.2102	Moving Signs Type II	EACH	14.000	14.000
0024	638.3000	Removing Small Sign Supports	EACH	1.000	1.000
0026	638.4000	Moving Small Sign Supports	EACH	7.000	7.000
0028	643.0900	Traffic Control Signs	DAY	558.000	558.000
0030	643.5000	Traffic Control	EACH	1.000	1.000
0032	646.2020	Marking Line Epoxy 6-Inch	LF	13,970.000	13,970.000
0034	646.2040	Marking Line Grooved Wet Ref Epoxy 6-Inch	LF	14,025.000	14,025.000
0036	ASP.1T0A	On-the-Job Training Apprentice at \$5.00/HR	HRS	100.000	100.000
0038	ASP.1T0G	On-the-Job Training Graduate at \$5.00/HR	HRS	100.000	100.000

204.0120 REMOVING ASPHALTIC SURFACE SURFACE MILLING SY					
CATEGORY	STATION	TO	STATION	LOCATION	
0010	58+15	-	127+70	CL	1,550
TOTAL					1,550

					455.0605 TACK COAT GAL	465.0105 ASPHALTIC SURFACE TON	465.0560 ASPHALTIC RUMBLE STRIPS, CENTERLINE LF
CATEGORY	STATION	TO	STATION	LOCATION			
0010	58+15	-	127+70	CL	93	170	6,955
TOTAL					93	170	6,955

643.0900 TRAFFIC CONTROL SIGNS				
CATEGORY	LOCATION	DAYS**	EACH	DAYS
0010	BEGIN PROJECT	31	5	155
0010	END PROJECT	31	5	155
0010	SIDE ROADS	31	8	248
TOTAL				558

**FOR INFORMATION ONLY
REFER TO STANDARD DETAIL DRAWING "TRAFFIC CONTROL, ADVANCE WARNING SIGNS 45 MPH
OR GREATER TWO-WAY UNDIVIDED ROAD OPEN TO TRAFFIC"

					646.2020 MARKING LINE EPOXY 6-INCH (YELLOW) LF	646.2040 MARKING LINE GROOVED WET REF EPOXY 6-INCH (WHITE) LF
CATEGORY	STATION	TO	STATION	LOCATION		
0010	57+85	-	127+70	CL	13,970	---
0010	58+15	-	127+70	LT	---	6,955
0010	57+00	-	127+70	RT	---	7,070
TOTAL					13,970	14,025

PERMANENT SIGNING
SHEET 01

						634.0612	634.0614	634.0616	634.0618	637.2230	638.2102	638.3000	638.4000	MOUNT ON SAME POST	DESCRIPTION	COMMENTS
STATION	LOCATION	SIGN #	SIGN CODE	SIZE		POSTS WOOD 4X6-INCH 12 FT EACH	POSTS WOOD 4X6-INCH 14 FT EACH	POSTS WOOD 4X6-INCH 16 FT EACH	POSTS WOOD 4X6-INCH 18 FT EACH	SF REFLECTIVE F	EACH SIGN TYPE II	EACH SIGN SUPPORTS	EACH SMALL SIGN SUPPORTS			
CTH CC				IN X IN										AS SIGN #		
41+60	RT	1	W1-2R	30 X 30		--	--	1	--	6.25	--	--	--	--	WARNING SIGN	CURVE AHEAD
42+12	LT	2	W1-8	18 X 24	1	--	--	--	--	3.00	--	--	--	--	WARNING SIGN	CHEVRON
43+30	LT	3	W1-8	18 X 24	1	--	--	--	--	3.00	1	--	--	--	WARNING SIGN	CHEVRON
43+30	LT	4	W1-8	18 X 24	--	--	--	--	--	3.00	--	--	--	3	WARNING SIGN	CHEVRON
44+48	LT	5	W1-8	18 X 24	1	--	--	--	--	3.00	--	--	--	--	WARNING SIGN	CHEVRON
44+48	LT	6	W1-8	18 X 24	--	--	--	--	--	3.00	--	--	--	5	WARNING SIGN	CHEVRON
45+10	LT	7	-	- - -	--	--	--	--	--	--	1	1	--	14	REGULATORY SIGN	SPEED LIMIT 35 -- MOVE TO SIGN #14 LOCATION
45+50	LT	8	-	- - -	--	--	--	--	--	--	1	--	1	--	NO ENGINE BRAKING	MOVE TO SIGN #16 LOCATION
45+50	LT	9	-	- - -	--	--	--	--	--	--	1	--	--	--	NO PARKING	MOVE TO SIGN #17 LOCATION
45+60	LT	10	W1-8	18 X 24	1	--	--	--	--	3.00	--	--	--	--	WARNING SIGN	CHEVRON
45+60	LT	11	W1-8	18 X 24	--	--	--	--	--	3.00	--	--	--	10	WARNING SIGN	CHEVRON
46+90	LT	12	W1-8	18 X 24	1	--	--	--	--	3.00	--	--	--	--	WARNING SIGN	CHEVRON
46+90	LT	13	W1-8	18 X 24	--	--	--	--	--	3.00	--	--	--	12	WARNING SIGN	CHEVRON
48+00	LT	14	W1-8	18 X 24	--	1	--	--	--	3.00	--	--	--	--	WARNING SIGN	CHEVRON
48+00	LT	15	-	- - -	--	--	--	--	--	--	--	--	--	14	REGULATORY SIGN	SPEED LIMIT 35 -- MOVE SIGN #7 TO THIS LOCATION
49+50	LT	16	-	- - -	--	--	--	--	--	--	--	--	--	--	NO ENGINE BRAKING	MOVE SIGN #8 TO THIS LOCATION
49+50	LT	17	-	- - -	--	--	--	--	--	--	--	--	--	16	NO PARKING	MOVE SIGN #9 TO THIS LOCATION
52+00	LT	18	W1-2L	30 X 30	--	--	1	--	--	6.25	--	--	--	--	WARNING SIGN	CURVE AHEAD
53+80	LT	19	-	- - -	--	--	--	--	--	--	--	--	--	--	DIRECTIONAL ASSEMBLY	MOVE SIGN #20 TO THIS LOCATION
55+50	LT	20	-	- - -	--	--	--	--	--	--	1	--	1	--	DIRECTIONAL ASSEMBLY	MOVE TO SIGN #19 LOCATION
55+90	RT	21	-	- - -	--	--	--	--	--	--	--	--	--	--	DIRECTIONAL ASSEMBLY	MOVE SIGN #22 TO THIS LOCATION
-	-	-	M1-6	- - -	--	--	--	--	--	--	--	--	--	--	CTH ROUTE MARKER	Z
-	-	-	M6-1	- - -	--	--	--	--	--	--	--	--	--	--	CARDINAL DIRECTION MARKER	LEFT
-	-	-	M1-6	- - -	--	--	--	--	--	--	--	--	--	--	CTH ROUTE MARKER	CC
-	-	-	M6-1	- - -	--	--	--	--	--	--	--	--	--	--	CARDINAL DIRECTION MARKER	THRU
56+40	RT	22	-	- - -	--	--	--	--	--	--	--	--	1	--	DIRECTIONAL ASSEMBLY	MOVE TO SIGN #21 LOCATION
-	-	-	M1-6	- - -	--	--	--	--	--	--	1	--	--	--	CTH ROUTE MARKER	Z
-	-	-	M6-1	- - -	--	--	--	--	--	--	1	--	--	--	CARDINAL DIRECTION MARKER	LEFT
-	-	-	M1-6	- - -	--	--	--	--	--	--	1	--	--	--	CTH ROUTE MARKER	CC
-	-	-	M6-1	- - -	--	--	--	--	--	--	1	--	--	--	CARDINAL DIRECTION MARKER	THRU
59+10	RT	23	-	- - -	--	--	--	--	--	--	--	--	1	--	DIRECTIONAL ASSEMBLY	MOVE TO SIGN #24 LOCATION
-	-	-	M3-1	- - -	--	--	--	--	--	--	1	--	--	--	CARDINAL DIRECTION MARKER	NORTH
-	-	-	M1-6	- - -	--	--	--	--	--	--	1	--	--	--	CTH ROUTE MARKER	CC
60+50	RT	24	-	- - -	--	--	--	--	--	--	--	--	--	--	DIRECTIONAL ASSEMBLY	MOVE SIGN #23 TO THIS LOCATION
-	-	-	M3-1	- - -	--	--	--	--	--	--	--	--	--	--	CARDINAL DIRECTION MARKER	NORTH
-	-	-	M1-6	- - -	--	--	--	--	--	--	--	--	--	--	CTH ROUTE MARKER	CC
67+85	RT	25	W1-2R	30 X 30	--	--	1	--	--	6.25	--	--	--	--	WARNING SIGN	CURVE AHEAD
70+40	LT	26	W1-8	18 X 24	1	--	--	--	--	3.00	--	--	--	--	WARNING SIGN	CHEVRON
71+60	LT	27	W1-8	18 X 24	1	--	--	--	--	3.00	--	--	--	--	WARNING SIGN	CHEVRON
71+60	LT	28	W1-8	18 X 24	--	--	--	--	--	3.00	--	--	--	27	WARNING SIGN	CHEVRON
72+80	LT	29	W1-8	18 X 24	1	--	--	--	--	3.00	--	--	--	--	WARNING SIGN	CHEVRON
74+00	LT	30	W1-2L	30 X 30	--	--	1	--	--	6.25	--	--	--	--	WARNING SIGN	CURVE AHEAD
76+10	RT	31	W1-2R	30 X 30	--	--	1	--	--	6.25	--	--	--	--	WARNING SIGN	CURVE AHEAD
77+40	LT	32	W1-8	18 X 24	--	--	1	--	--	3.00	--	--	--	--	WARNING SIGN	CHEVRON
77+60	LT	33	-	- - -	--	--	--	--	--	--	1	--	1	--	REGULATORY SIGN	SPEED LIMIT 45 -- MOVE TO SIGN #42 LOCATION
78+70	LT	34	W1-8	18 X 24	1	--	--	--	--	3.00	--	--	--	--	WARNING SIGN	CHEVRON
78+70	LT	35	W1-8	18 X 24	--	--	--	--	--	3.00	--	--	--	34	WARNING SIGN	CHEVRON
54+35	RT	36	W11-2	30 X 30	--	--	--	1	--	6.25	--	--	--	--	WARNING SIGN	PEDESTRIAN CROSSING SYMBOL
54+35	RT	37	W16-4P	30 X 24	--	--	--	--	--	5.00	--	--	--	36	WARNING SIGN	NEXT 2 MILE
79+80	LT	38	W1-8	18 X 24	1	--	--	--	--	3.00	--	--	--	--	WARNING SIGN	CHEVRON
83+80	LT	39	W1-2L	30 X 30	--	--	1	--	--	6.25	--	--	--	--	WARNING SIGN	CURVE AHEAD
84+50	RT	40	-	- - -	--	--	--	--	--	--	--	--	--	--	REGULATORY SIGN	SPEED LIMIT 45 -- MOVE SIGN #43 TO THIS LOCATION
86+50	RT	41	W1-2R	30 X 30	--	--	1	--	--	6.25	--	--	--	--	WARNING SIGN	CURVE AHEAD
87+30	LT	42	-	- - -	--	--	--	--	--	--	--	--	--	--	REGULATORY SIGN	SPEED LIMIT 45 -- MOVE SIGN #33 TO THIS LOCATION
89+30	RT	43	-	- - -	--	--	--	--	--	--	1	--	1	--	REGULATORY SIGN	SPEED LIMIT 45 -- MOVE TO SIGN #40 LOCATION
90+40	LT	44	W1-8	18 X 24	1	--	--	--	--	3.00	--	--	--	--	WARNING SIGN	CHEVRON
91+60	LT	45	W1-8	18 X 24	1	--	--	--	--	3.00	--	--	--	--	WARNING SIGN	CHEVRON
91+60	LT	46	W1-8	18 X 24	--	--	--	--	--	3.00	--	--	--	45	WARNING SIGN	CHEVRON
92+80	LT	47	W1-8	18 X 24	1	--	--	--	--	3.00	--	--	--	--	WARNING SIGN	CHEVRON
SUBTOTALS						13	1	8	1	121.00	13	1	6			

3

PERMANENT SIGNING
SHEET 02

SHEET 02								634.0612	634.0614	634.0616	634.0618	637.2230	638.2102	638.3000	638.4000				
								POSTS	POSTS	POSTS	POSTS	SIGNS	MOVING	REMOVING	MOVING				
								WOOD	WOOD	WOOD	WOOD	TYPE II	SIGNS	SMALL	SMALL SIGN				
								4X6-INCH	4X6-INCH	4X6-INCH	4X6-INCH	REFLECTIVE F	TYPE II	SIGN SUPPORTS	SUPPORTS	MOUNT ON			
								12 FT	14 FT	16 FT	18 FT					SAME POST	DESCRIPTION	COMMENTS	
STATION	LOCATION	SIGN #	SIGN CODE	IN	X	IN	FT	FT	EACH	EACH	EACH	EACH	SF	EACH	EACH	EACH	AS SIGN #		
CTH CC																			
97+90	LT	48	W1-2L	30	X	30	3.5	15.70	--	--	1	--	6.25	--	--	--	--	WARNING SIGN	CURVE AHEAD
115+20	RT	49	R2-1	-	-	-	--	--	--	--	--	--	--	--	--	--	--	REGULATORY SIGN	SPEED LIMIT 45 -- MOVE SIGN #60 TO THIS LOCATION
117+10	RT	50	W1-2L	30	X	30	3.5	15.70	--	--	1	--	6.25	--	--	--	--	WARNING SIGN	CURVE AHEAD
117+70	RT	51	W1-8	18	X	24	2	11.53	1	--	--	--	3.00	--	--	--	--	WARNING SIGN	CHEVRON
118+80	RT	52	W1-8	18	X	24	2	11.53	1	--	--	--	3.00	--	--	--	--	WARNING SIGN	CHEVRON
118+80	RT	53	W1-8	18	X	24	2	--	--	--	--	--	3.00	--	--	--	52	WARNING SIGN	CHEVRON
120+00	RT	54	W1-8	18	X	24	2	11.53	1	--	--	--	3.00	--	--	--	--	WARNING SIGN	CHEVRON
120+00	RT	55	W1-8	18	X	24	2	--	--	--	--	--	3.00	--	--	--	54	WARNING SIGN	CHEVRON
121+20	RT	56	W1-8	18	X	24	2	11.53	1	--	--	--	3.00	--	--	--	--	WARNING SIGN	CHEVRON
121+20	RT	57	W1-8	18	X	24	2	--	--	--	--	--	3.00	--	--	--	56	WARNING SIGN	CHEVRON
122+30	RT	58	W1-8	18	X	24	2	11.53	1	--	--	--	3.00	--	--	--	--	WARNING SIGN	CHEVRON
122+30	RT	59	W1-8	18	X	24	2	11.53	--	--	--	--	3.00	--	--	--	58	WARNING SIGN	CHEVRON
122+30	RT	60	--	-	-	-	--	--	--	--	--	--	--	1	--	1	49	REGULATORY SIGN	SPEED LIMIT 45 -- MOVE TO SIGN #49 LOCATION
123+50	RT	61	W1-8	18	X	24	2	11.53	1	--	--	--	3.00	--	--	--	--	WARNING SIGN	CHEVRON
123+50	RT	62	W1-8	18	X	24	2	--	--	--	--	--	3.00	--	--	--	61	WARNING SIGN	CHEVRON
124+70	RT	63	W1-8	18	X	24	2	11.53	1	--	--	--	3.00	--	--	--	--	WARNING SIGN	CHEVRON
127+50	LT	64	W1-2R	30	X	30	3.5	15.70	--	--	1	--	6.25	--	--	--	--	WARNING SIGN	CURVE AHEAD
187+10	LT	65	W11-2	30	X	30	3.5	16.70	--	--	--	1	6.25	--	--	--	--	WARNING SIGN	PEDESTRIAN CROSSING SYMBOL
187+10	LT	66	W16-4P	30	X	24	2	--	--	--	--	--	5.00	--	--	--	65	WARNING SIGN	NEXT 2 MILE
227+80	RT	67	W14-3	48	X	36	1.5	13.70	--	1	--	--	5.56	--	--	--	--	WARNING SIGN	NO PASSING ZONE
229+80	LT	68	W14-3	48	X	36	1.5	13.70	--	1	--	--	5.56	--	--	--	--	WARNING SIGN	NO PASSING ZONE
SUBTOTALS									7	2	3	1	77.12	1	0	1			
TOTALS									20	3	11	2	198.12	14	1	7			

PROJECT NO: 8908-03-71

HWY: CTH CC

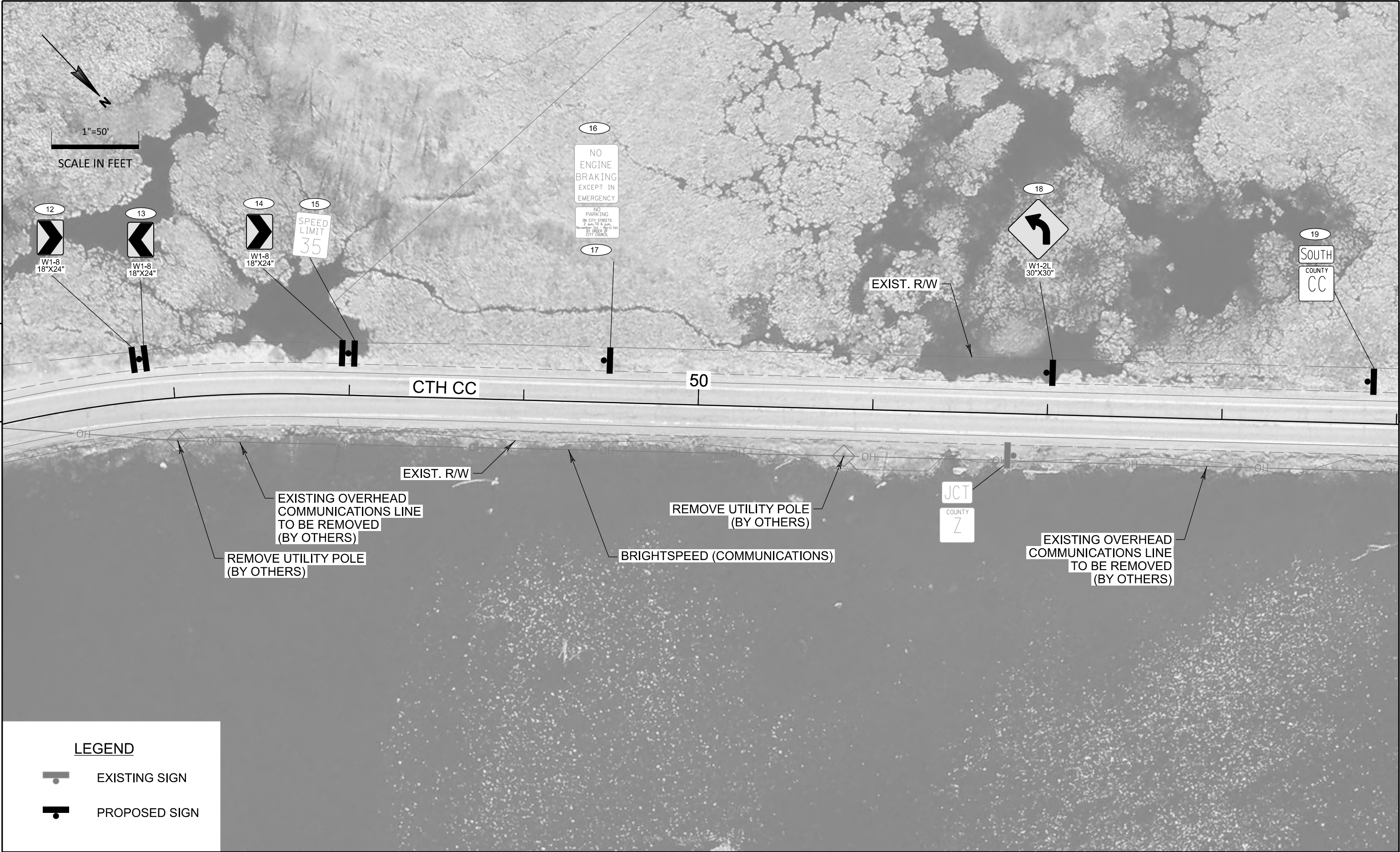
COUNTY: CHIPPEWA

MISCELLANEOUS QUANTITIES

SHEET

E

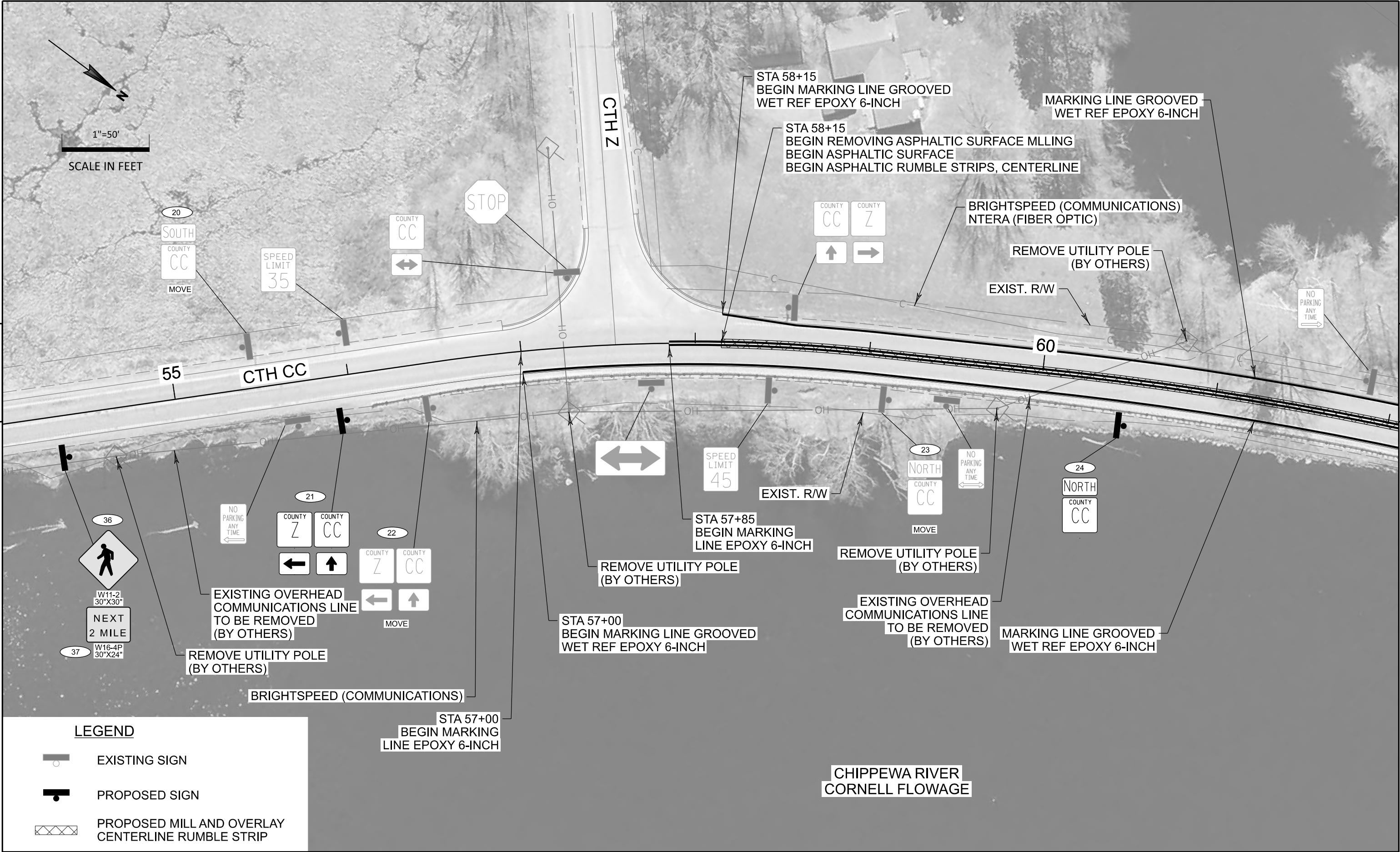


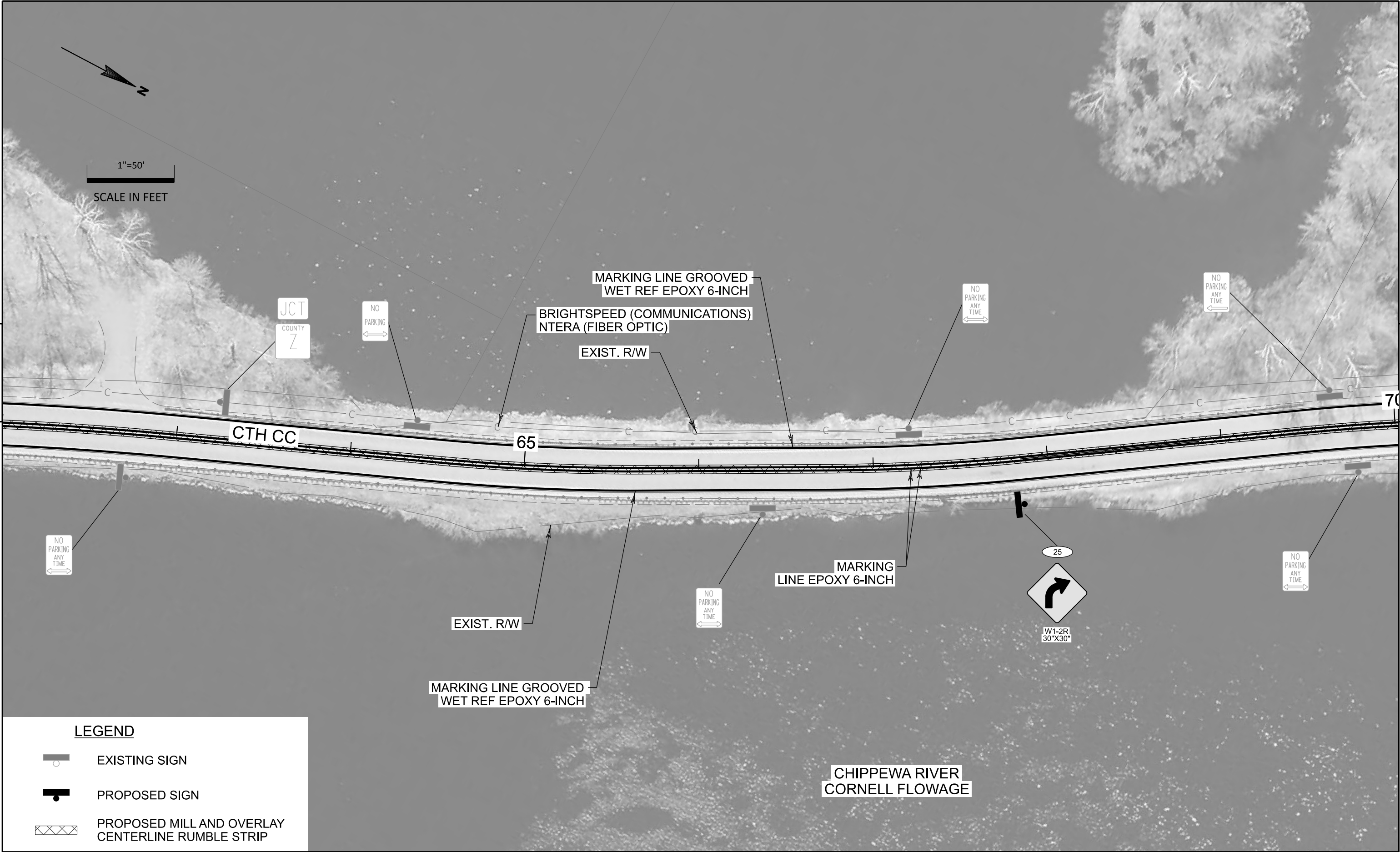


LEGEND

EXISTING SIGN

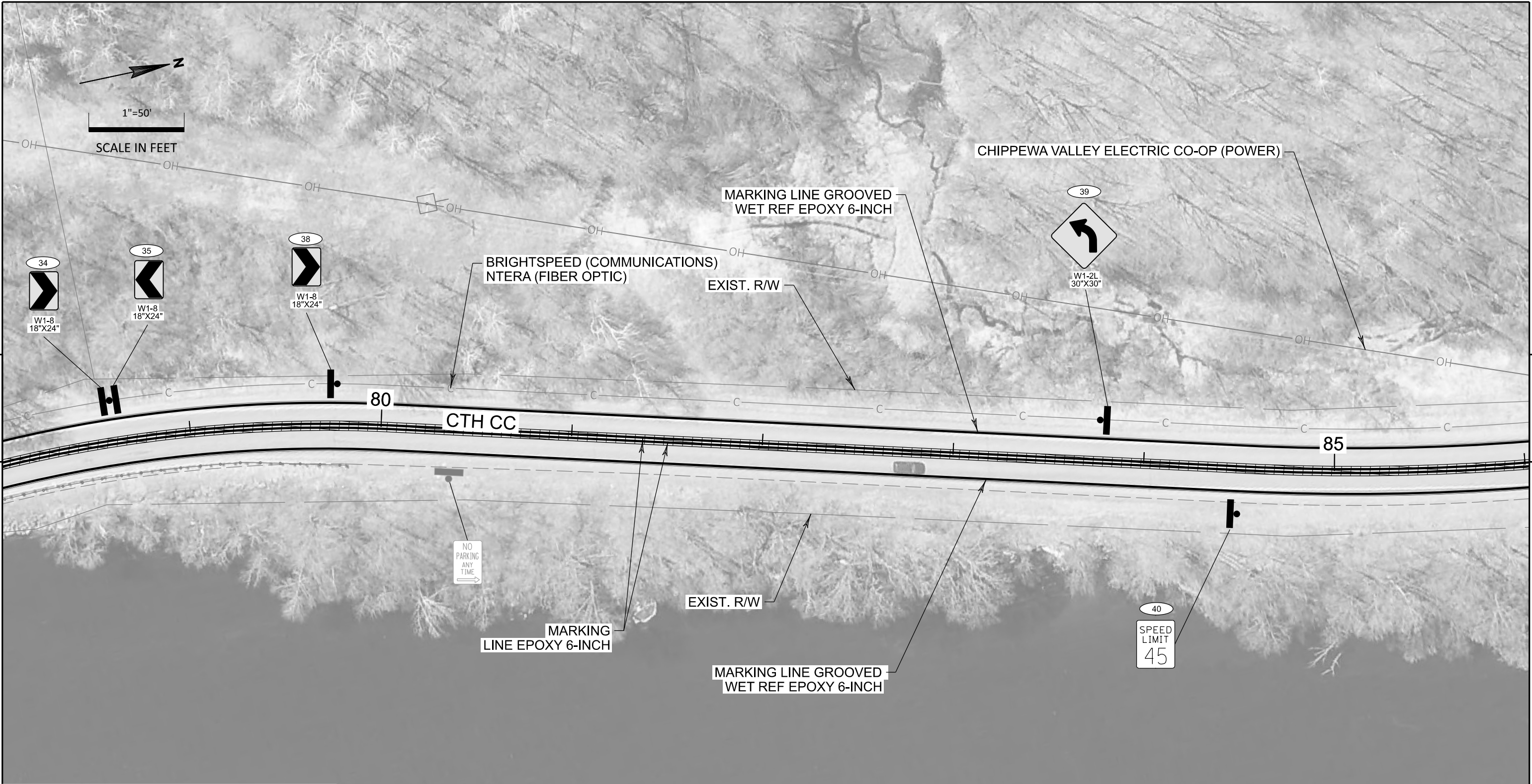
PROPOSED SIGN





LEGEND

-  EXISTING SIGN
-  PROPOSED SIGN
-  PROPOSED MILL AND OVERLAY CENTERLINE RUMBLE STRIP

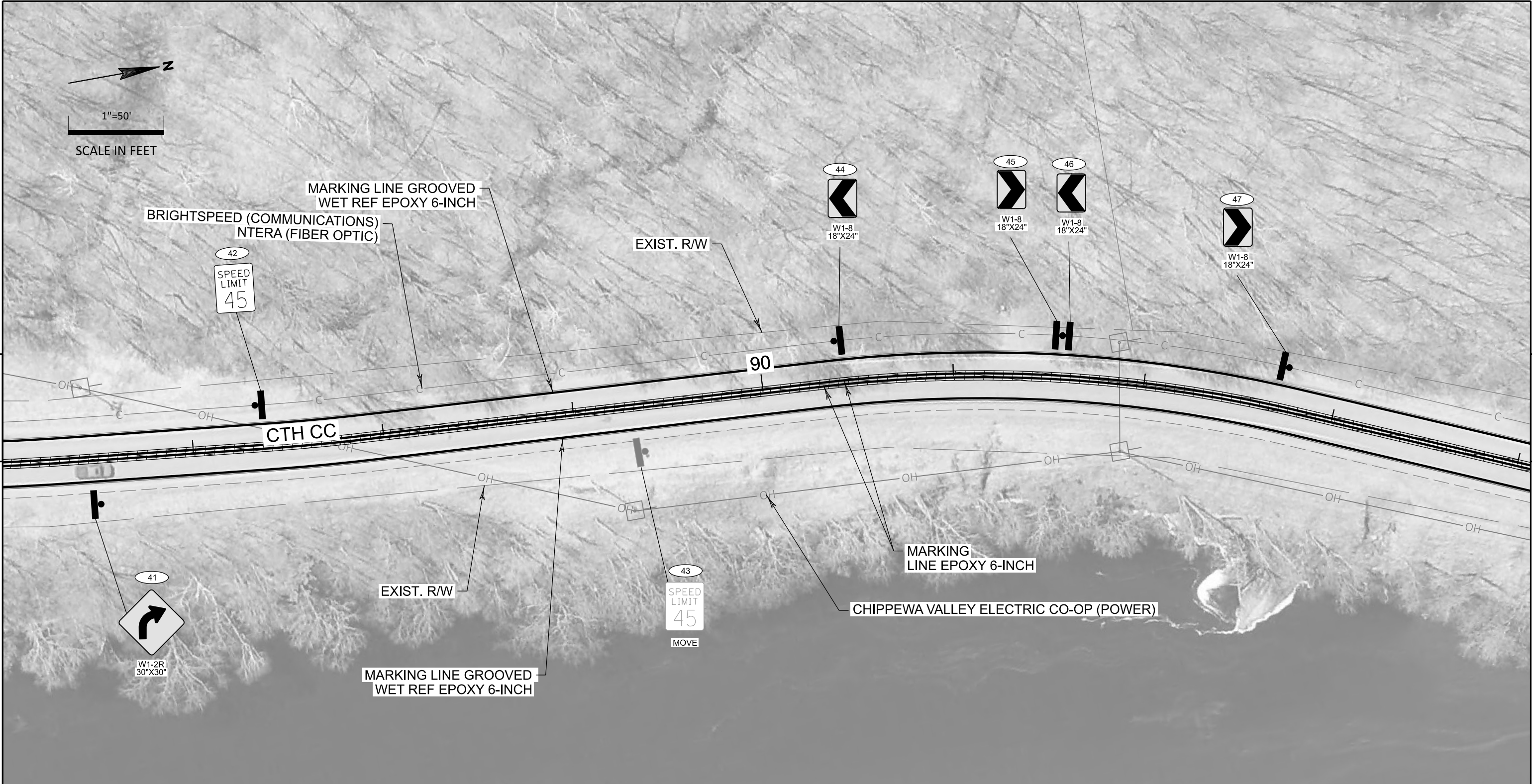


LEGEND

EXISTING SIGN

PROPOSED SIGN

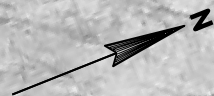
PROPOSED MILL AND OVERLAY
CENTERLINE RUMBLE STRIP



LEGEND

- EXISTING SIGN
- PROPOSED SIGN
- PROPOSED MILL AND OVERLAY CENTERLINE RUMBLE STRIP

CHIPPEWA RIVER
CORNELL FLOWAGE



1"=50'

SCALE IN FEET

MARKING LINE GROOVED
WET REF EPOXY 6-INCH



W1-2L
30"X30"

SPEED
LIMIT
45

BRIGHTSPEED (COMMUNICATIONS)
NTERA (FIBER OPTIC)

EXIST. R/W

95

CTH CC

100

MARKING
LINE EPOXY 6-INCH

EXIST. R/W

MARKING LINE GROOVED
WET REF EPOXY 6-INCH

CHIPPEWA VALLEY ELECTRIC CO-OP (POWER)

LEGEND

-  EXISTING SIGN
-  PROPOSED SIGN
-  PROPOSED MILL AND OVERLAY
CENTERLINE RUMBLE STRIP

CHIPPEWA RIVER
CORNELL FLOWAGE

PROJECT NO: 8908-03-71

HWY: CTH CC

COUNTY: CHIPPEWA

PLAN DETAILS

SHEET

26

E

FILE NAME : c:\pwworking\usmn\dms04266\Sheet_Layout.dgn

PLOT DATE : 9/4/2025 2:40:17 PM

PLOT BY : Bill Siegler

PLOT NAME : ...\\20_SHEETS\Sheet_Layout.dgn

PLOT SCALE : 50.00000000' / in.

WISDOT/CADDs SHEET 44

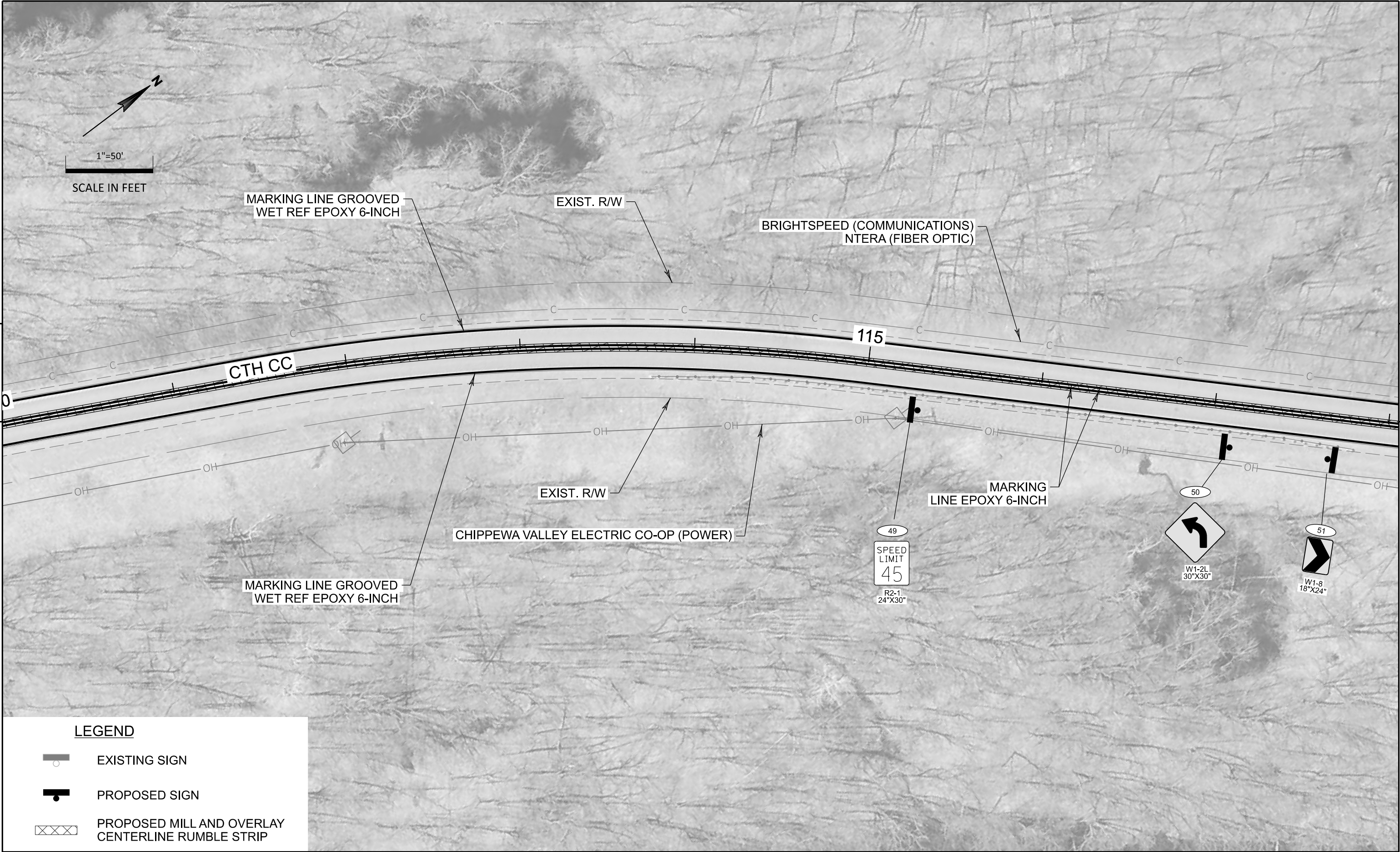


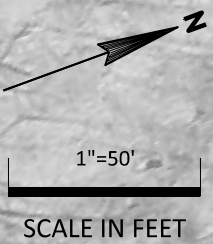
LEGEND

EXISTING SIGN

PROPOSED SIGN

PROPOSED MILL AND OVERLAY
CENTERLINE RUMBLE STRIP





5

5

BRIGHTSPEED (COMMUNICATIONS)
NTERA (FIBER OPTIC)

MARKING
LINE EPOXY 6-INCH

MARKING LINE GROOVED
WET REF EPOXY 6-INCH

SPEED
LIMIT
45

EXIST. R/W

60
SPEED
LIMIT
45
MOVE

125

CTH CC 120

58
W1-8
18"x24"

59
W1-8
18"x24"

52
W1-8
18"x24"

53
W1-8
18"x24"

54
W1-8
18"x24"

55
W1-8
18"x24"

56
W1-8
18"x24"

57
W1-8
18"x24"

61
W1-8
18"x24"

62
W1-8
18"x24"

63
W1-8
18"x24"

MARKING LINE GROOVED
WET REF EPOXY 6-INCH

EXIST. R/W

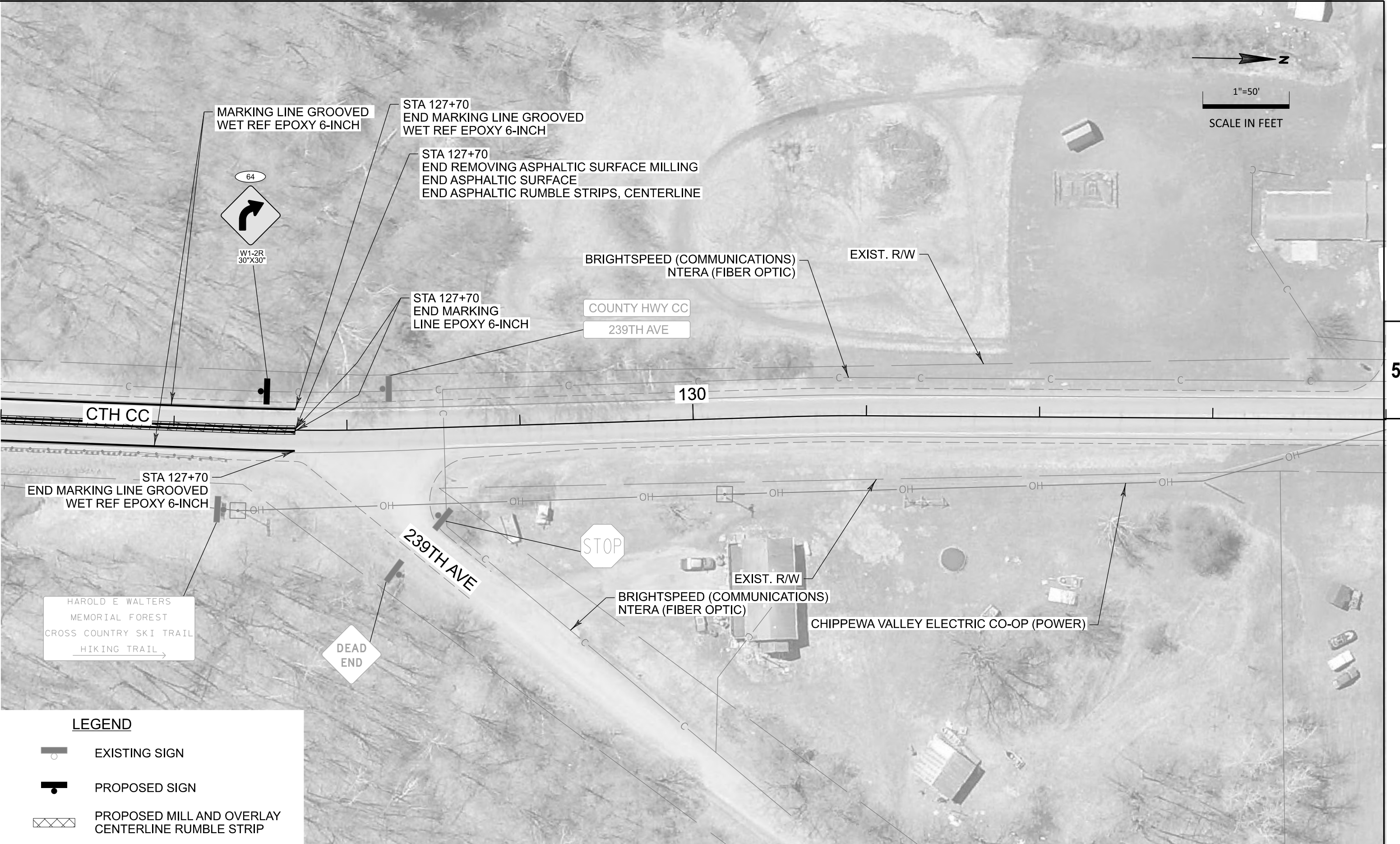
Ice Age
National
Scenic Trail

Ice Age
National
Scenic Trail

CHIPPEWA VALLEY ELECTRIC CO-OP (POWER)

LEGEND

- EXISTING SIGN
- PROPOSED SIGN
- PROPOSED MILL AND OVERLAY
CENTERLINE RUMBLE STRIP



LEGEND

-  EXISTING SIGN
-  PROPOSED SIGN
-  PROPOSED MILL AND OVERLAY
-  CENTERLINE RUMBLE STRIP



1"=50'

SCALE IN FEET

250TH AVE

CTY CC

250TH AVE



EXIST. R/W



W11-2
30"X30"

NEXT
2 MILE
W16-4P
30"X24"

65

66

190

185

CTH CC

BRIGHTSPEED (COMMUNICATIONS)
NTERA (FIBER OPTIC)

CHIPPEWA VALLEY ELECTRIC CO-OP (POWER)

EXIST. R/W

LEGEND



EXISTING SIGN



PROPOSED SIGN

PROJECT NO: 8908-03-71

HWY: CTH CC

COUNTY: CHIPPEWA

PLAN DETAILS

SHEET

31

E



1"=50'

SCALE IN FEET

68

NO
PASSING
ZONE

W14-3
48"x36"

EXIST. R/W

230

CTH CC

67

NO
PASSING
ZONE

W14-3
48"x36"

EXIST. R/W

BRIGHTSPEED (COMMUNICATIONS)
NTERA (FIBER OPTIC)

END PROJECT
STA 230+00

CHIPPEWA VALLEY ELECTRIC CO-OP (POWER)

LEGEND



EXISTING SIGN



PROPOSED SIGN

PROJECT NO: 8908-03-71

HWY: CTH CC

COUNTY: CHIPPEWA

PLAN DETAILS

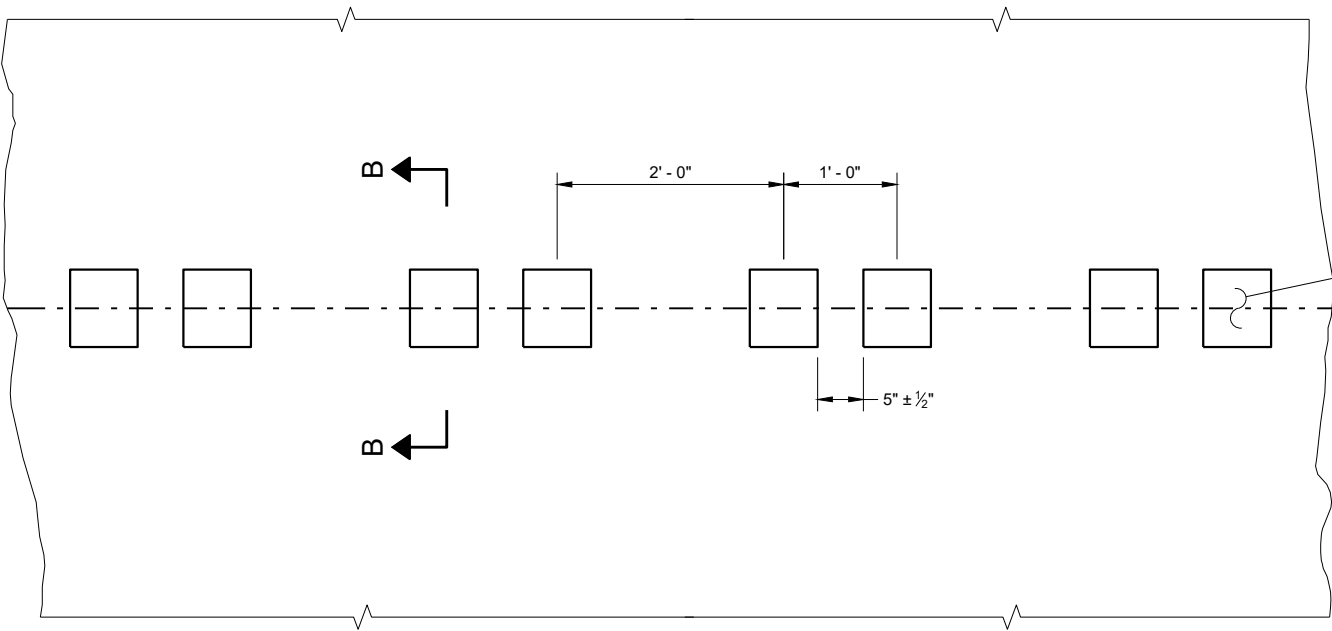
SHEET

32

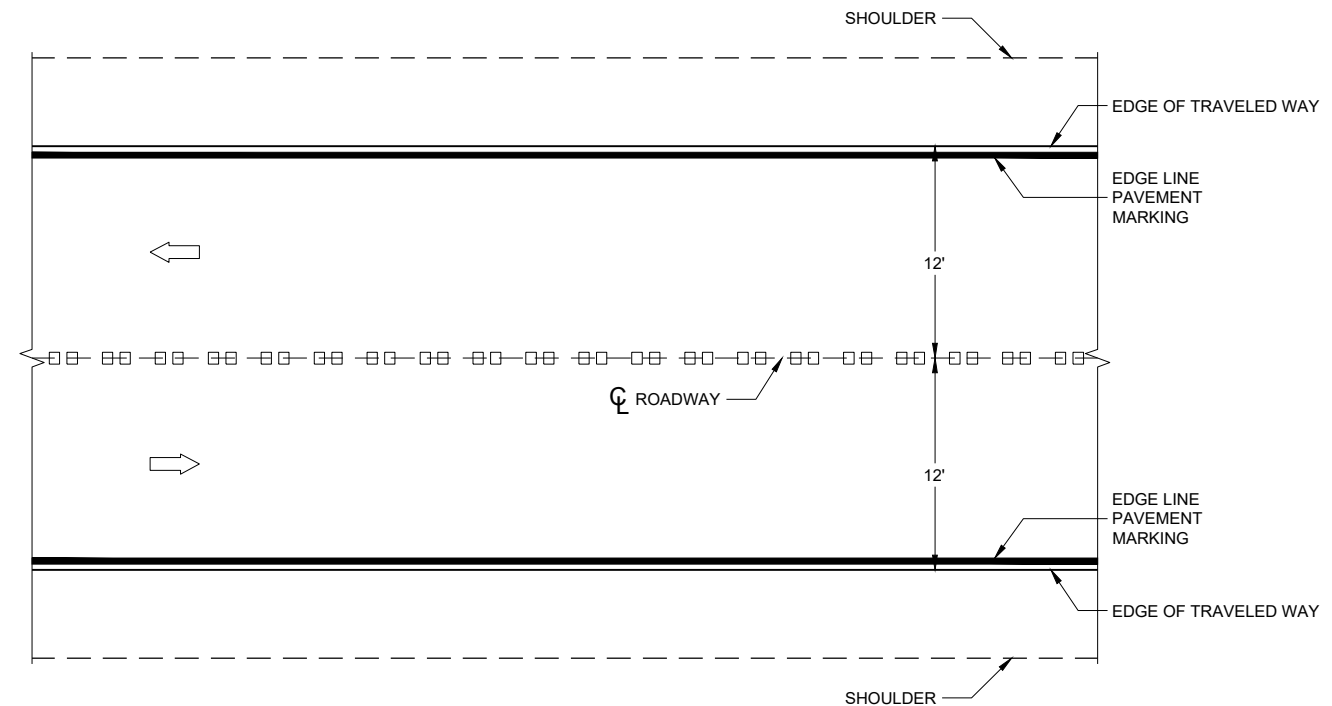
E

Standard Detail Drawing List

13A11-04A	CENTERLINE RUMBLE STRIPS - ASPHALT
13A11-04D	CENTERLINE RUMBLE STRIPS - INTERSECTIONS, DRIVEWAYS, BRIDGES, RAILROADS
15C04-05	TRAFFIC CONTROL, ADVANCE WARNING SIGNS 45 M.P.H. OR GREATER TWO-WAY UNDIVIDED ROAD OPEN TO TRAFFIC
15C08-24A	PERMANENT LONGITUDINAL PAVEMENT MARKINGS
15C12-09A	TRAFFIC CONTROL FOR LANE CLOSURE WITH FLAGGING OPERATION
15C12-09B	TRAFFIC CONTROL, LANE CLOSURE WITH AUTOMATED FLAGGER ASSISTANCE DEVICE
15C19-10A	MOVING PAVEMENT MARKING OPERATION TWO-LANE TWO-WAY ROADWAY

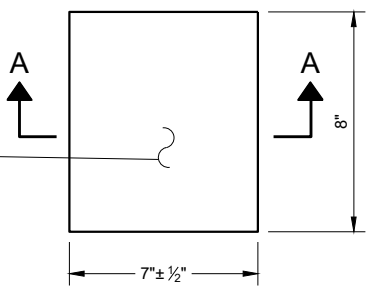


PLAN DETAIL VIEW

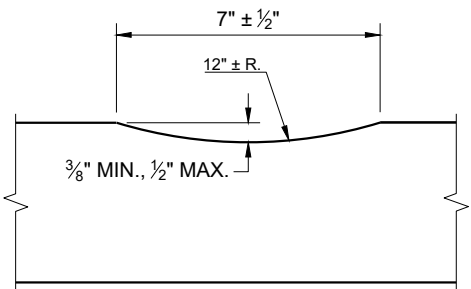


PLAN VIEW

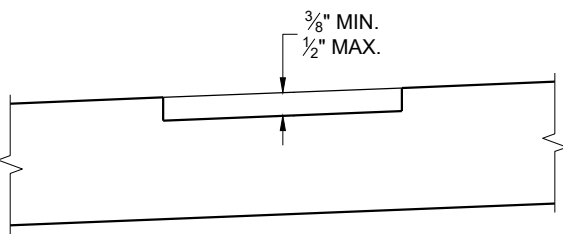
CENTERLINE RUMBLE STRIPS - ASPHALT



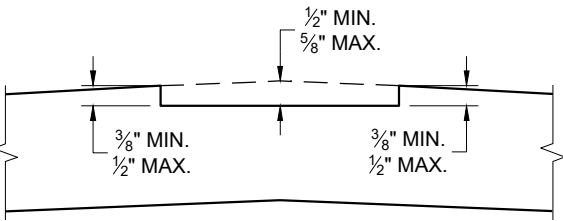
PLAN VIEW
(SINGLE GROOVE)



SECTION A - A



SECTION B - B
SUPERELEVATED ROADWAY

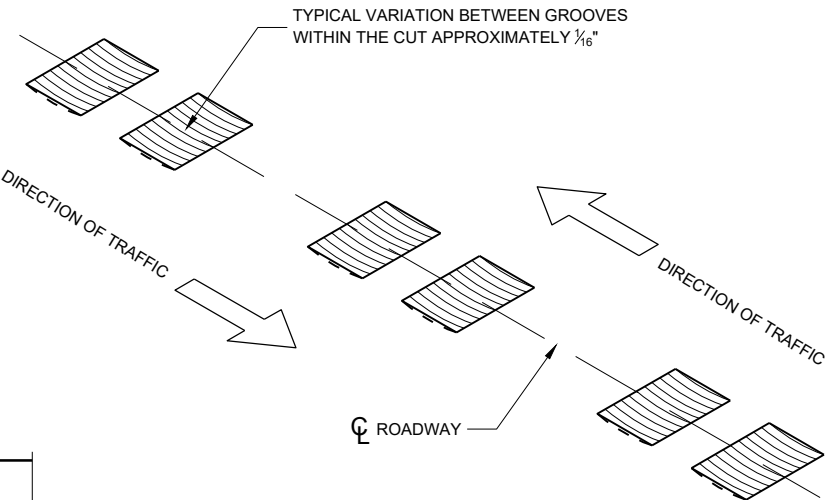


SECTION B - B
CROWNED ROADWAY

GENERAL NOTES

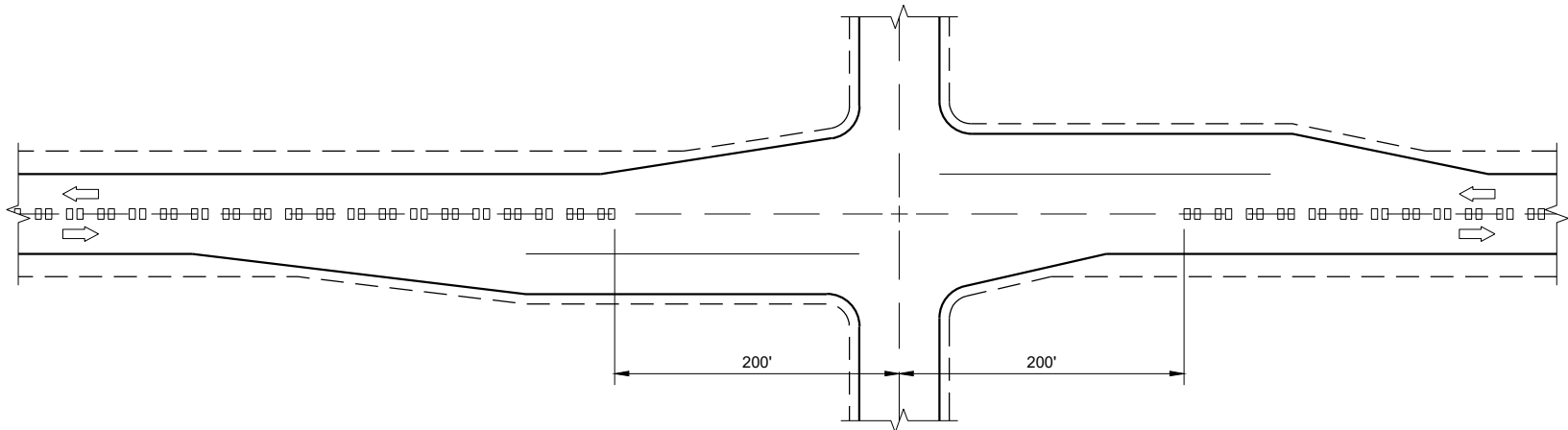
DO NOT MILL SHOULDER GROOVES THROUGH INTERSECTIONS, MARKED CROSSWALKS, NON-MOTORIZED PATH CROSSINGS, ETC. REFER TO SDD 13A11 SHEETS "d" AND "e".

CENTERLINE GROOVES MAY BE OMITTED IN AREAS WITH HIGH CONCENTRATIONS OF DRIVEWAYS WHEN DIRECTED BY THE ENGINEER.

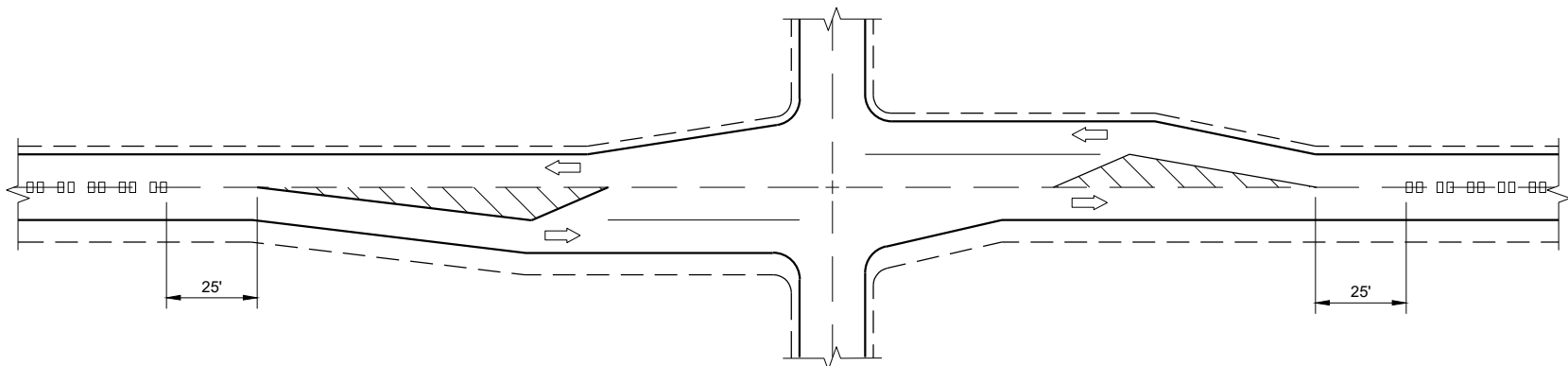


CENTERLINE RUMBLE STRIPS - ASPHALT

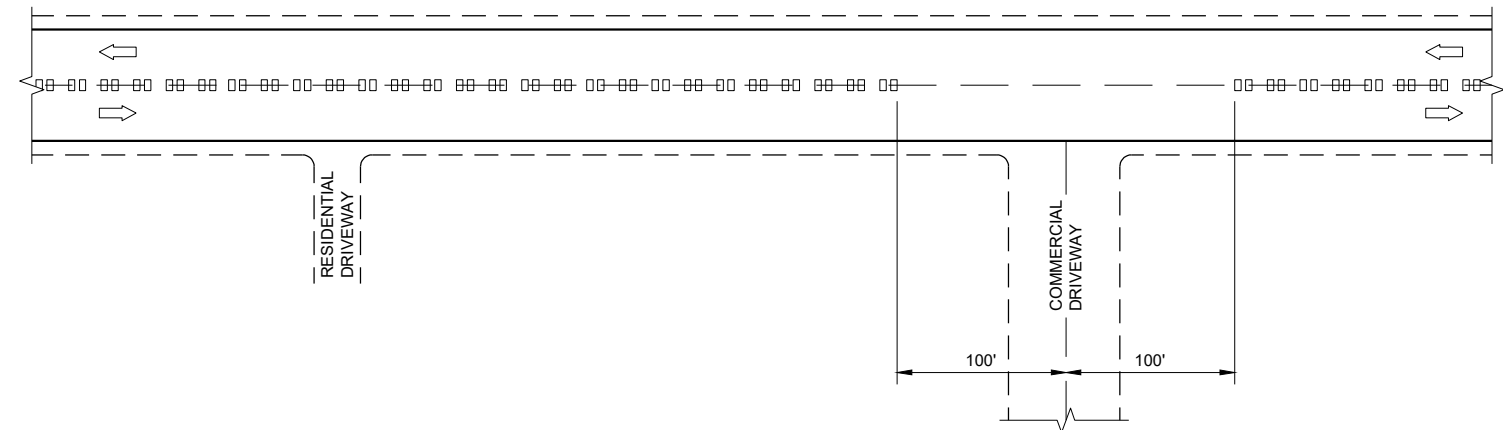
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION



CENTERLINE GROOVES AT INTERSECTIONS



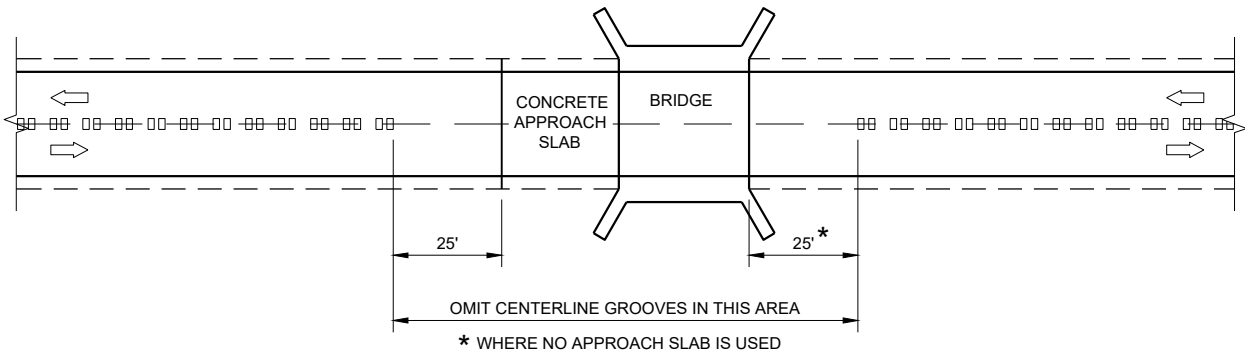
CENTERLINE GROOVES AT INTERSECTIONS
(WITH LEFT TURN LANES)



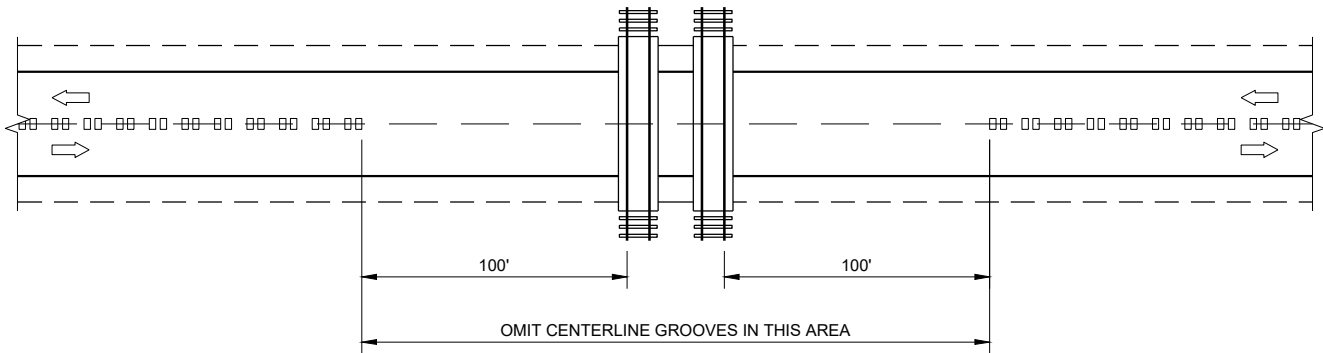
CENTERLINE GROOVES AT DRIVEWAYS^①

GENERAL NOTES

- ① CENTERLINE GROOVES MAY BE OMITTED IN AREAS WITH HIGH CONCENTRATIONS OF DRIVEWAYS WHEN DIRECTED BY THE ENGINEER.



CENTERLINE GROOVES AT BRIDGES



CENTERLINE GROOVES AT RAILROADS

CENTER LINE
RUMBLE STRIPS -
INTERSECTIONS, DRIVEWAYS,
BRIDGES, RAIL ROADS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
May 2023
DATE
/S/ John Jenkins
ROADWAY STANDARDS DEVELOPMENT ENGINEER
35

FHWA

GENERAL NOTES

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

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.

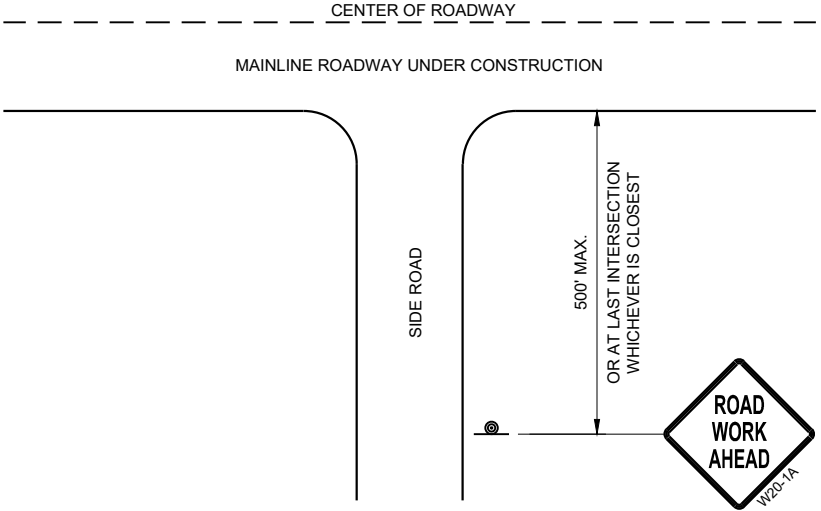
SIGNS THAT WILL BE IN PLACE LESS THAN SEVEN CONTINUOUS DAYS AND NIGHTS MAY BE MOUNTED ON PORTABLE SUPPORTS.

IF A "STOP" SIGN MUST BE REMOVED FOR A WORK OPERATION, A TEMPORARY "STOP" SIGN SHALL BE PLACED PRIOR TO THE SIGN REMOVAL, OR A FLAGGER SHALL BE PROVIDED UNTIL THE SIGN IS REESTABLISHED.

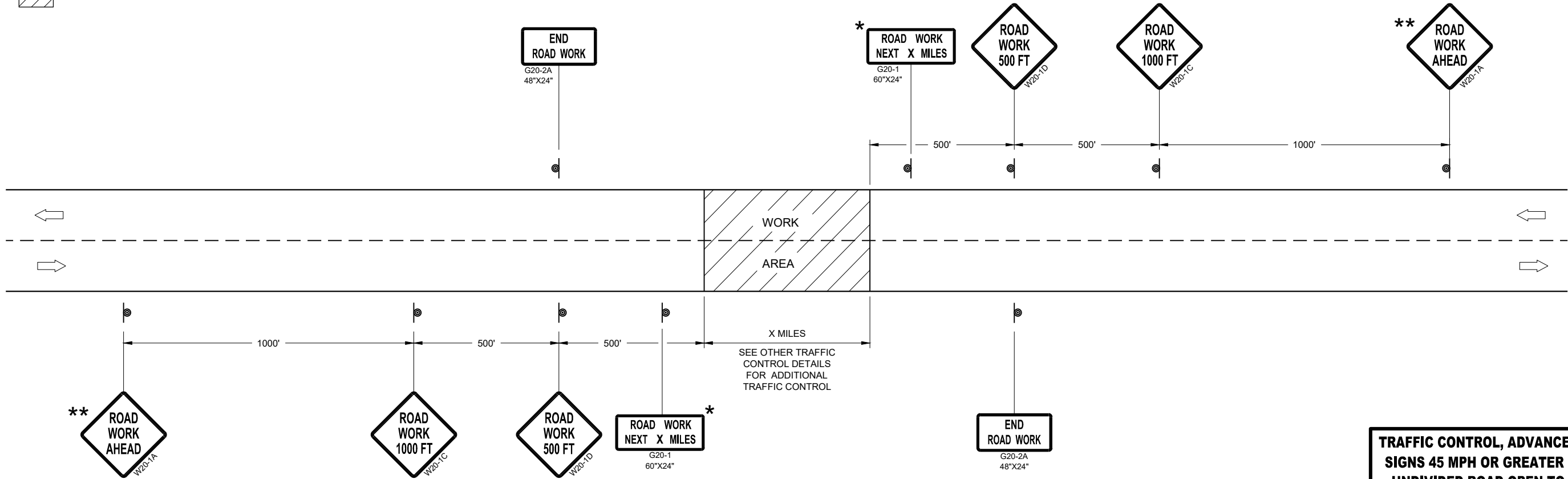
- * OMIT G20-1 SIGNS IF LENGTH OF WORK AREA IS 2 MILES OR LESS
- ** PLACE AN ADDITIONAL W20-1A "ROAD WORK AHEAD" SIGN IF WORK AREA WITHIN THE PROJECT IS SEPARATED BY MORE THAN 2 MILES FROM PREVIOUS WORK AREA.

LEGEND

-  SIGN ON PERMANENT SUPPORT
-  DIRECTION OF TRAFFIC
-  WORK AREA



TYPICAL SIDE ROAD APPROACH
WARNING SIGN DETAIL

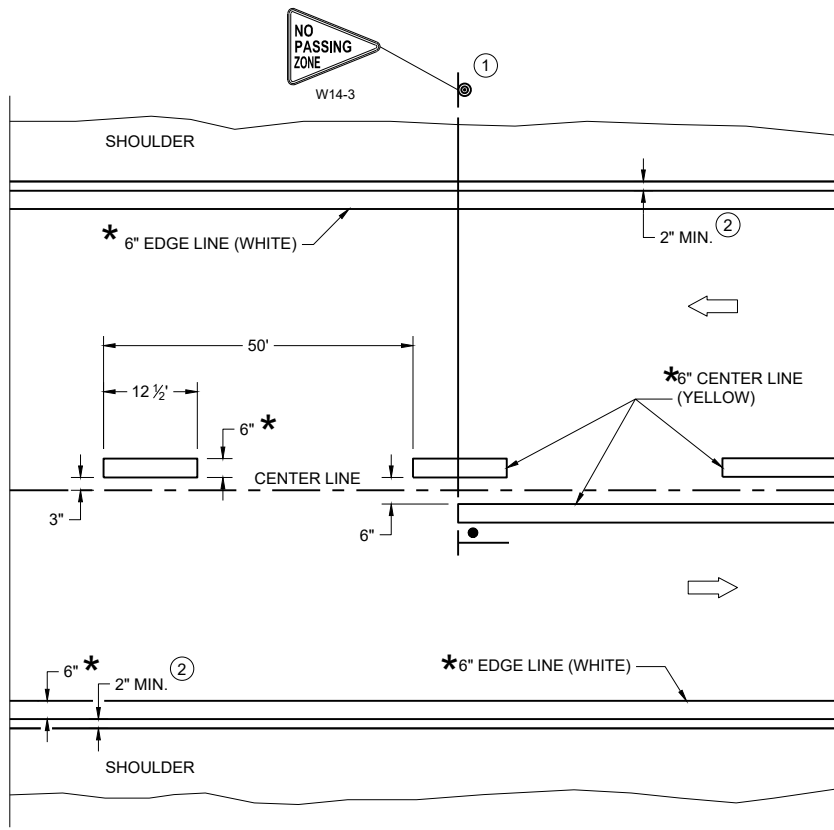


TRAFFIC CONTROL, ADVANCE WARNING SIGNS 45MPH OR GREATER

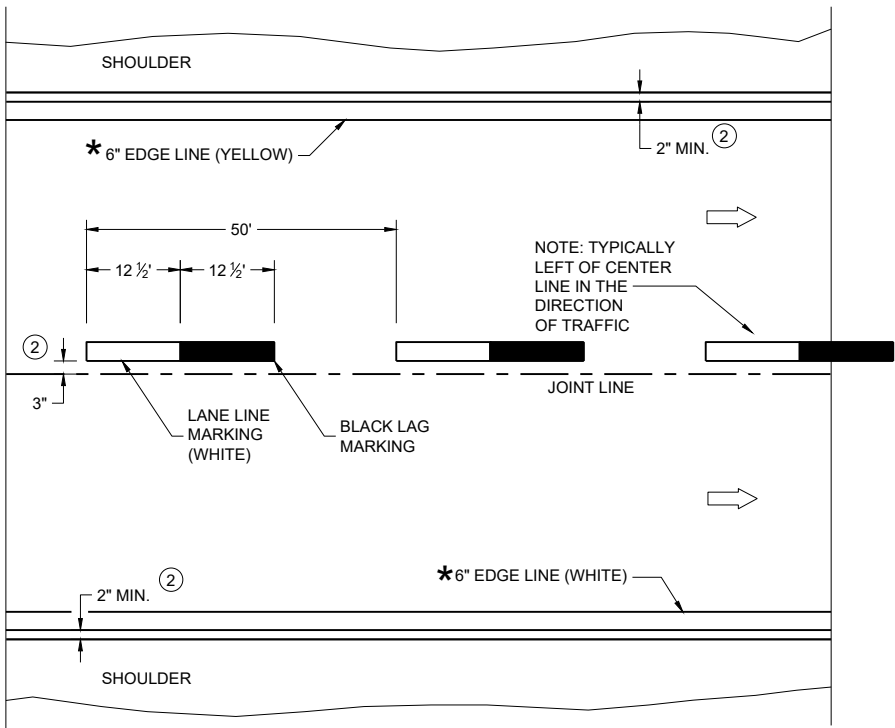
TRAFFIC CONTROL, ADVANCE WARNING
SIGNS 45 MPH OR GREATER TWO-WAY
UNDIVIDED ROAD OPEN TO TRAFFIC

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
July 2018 /S/ Andrew Heidtke
DATE WORK ZONE ENGINEER 36
FHWA



TWO WAY TRAFFIC



ONE WAY TRAFFIC

PERMANENT PAVEMENT MARKING

*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

PERMANENT LONGITUDINAL PAVEMENT MARKINGS	
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION	
APPROVED December 2024 DATE	/S/ Jeannie Silver Statewide Pavement Marking Engineer

LEGEND

-  SIGN ON PORTABLE OR PERMANENT SUPPORT
-  TEMPORARY PORTABLE RUMBLE STRIP ARRAY
-  DIRECTION OF TRAFFIC
-  WORK AREA
-  FLAGGER, EQUIPPED WITH STOP/SLOW PADDLE FASTENED ON SUPPORT STAFF

GENERAL NOTES

DETAILS OF TRAFFIC CONTROL DEVICES AND INSTALLATION NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS, THE SPECIAL PROVISIONS, AND THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES.

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

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

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

THE FIRST ADVANCE WARNING SIGN SHOULD TYPICALLY BE LOCATED IN ADVANCE OF THE ANTICIPATED TRAFFIC BACKUP OR QUEUE.

WHEN A SIDE ROAD OR RAMP INTERSECTS THE FACILITY ON WHICH THE WORK IS BEING PERFORMED, ADDITIONAL TRAFFIC CONTROLS SHALL BE PROVIDED AS SPECIFIED IN THE PLANS AND/OR THE SPECIAL PROVISIONS OR AS APPROVED BY THE ENGINEER.

FLAGGING

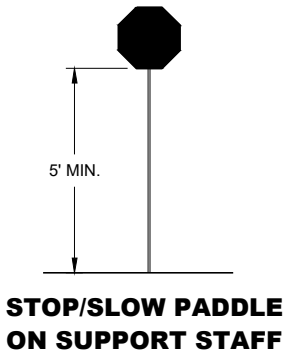
FLAGGERS SHALL BE IN SIGHT OF EACH OTHER OR IN DIRECT COMMUNICATION AT ALL TIMES. THEY SHALL BE EQUIPPED WITH STOP/SLOW PADDLES FASTENED ON SUPPORT STAFFS. WHEN THE FLAGGING OPERATION IS NOT IN EFFECT REMOVE TEMPORARY PORTABLE RUMBLE STRIPS PRIOR TO COVERING OR REMOVING ALL ADVANCE SIGNING.

- ① FOR MOVING WORK OPERATIONS, POST ADDITIONAL W20-7A FLAGGER SIGNS AT APPROXIMATELY 3,500' INTERVALS IN THE MOVING WORK OPERATION OR AS APPROVED BY THE ENGINEER.
- ② SIGN NOT REQUIRED IF FLAGGING OPERATION OCCURS WITHIN A SIGNED ROAD WORK ZONE AREA.

WHEN THE DISTANCE BETWEEN FLAGGERS EXCEEDS 2 MILES, A PILOT CAR IS REQUIRED. WHEN CURVES REDUCE SIGHT DISTANCE BELOW 400', A PILOT CAR IS REQUIRED.

TEMPORARY PORTABLE RUMBLE STRIPS

- UTILIZE TEMPORARY PORTABLE RUMBLE STRIPS ON ALL FLAGGING OPERATIONS.
- ③ EACH TEMPORARY PORTABLE RUMBLE STRIP ARRAY CONSISTS OF THREE RUMBLE STRIPS PLACED TRANSVERSE ACROSS THE LANE AT THE LOCATIONS SHOWN. WITHIN EACH ARRAY, SPACING BETWEEN RUMBLE STRIPS SHALL BE 15 FEET ON CENTER
- ONLY USE TEMPORARY PORTABLE RUMBLE STRIPS FROM THE APPROVED PRODUCTS LIST.
- INSTALL TEMPORARY RUMBLE STRIPS PER MANUFACTURER'S RECOMMENDATIONS.
- PLACE ADVANCE SIGNING PRIOR TO INSTALLING TEMPORARY RUMBLE STRIPS.
- DO NOT INSTALL TEMPORARY PORTABLE RUMBLE STRIPS ON GRAVEL, MILLED SURFACES, OR ASPHALT THAT HAS BEEN PAVED LESS THAN 12 HOURS.

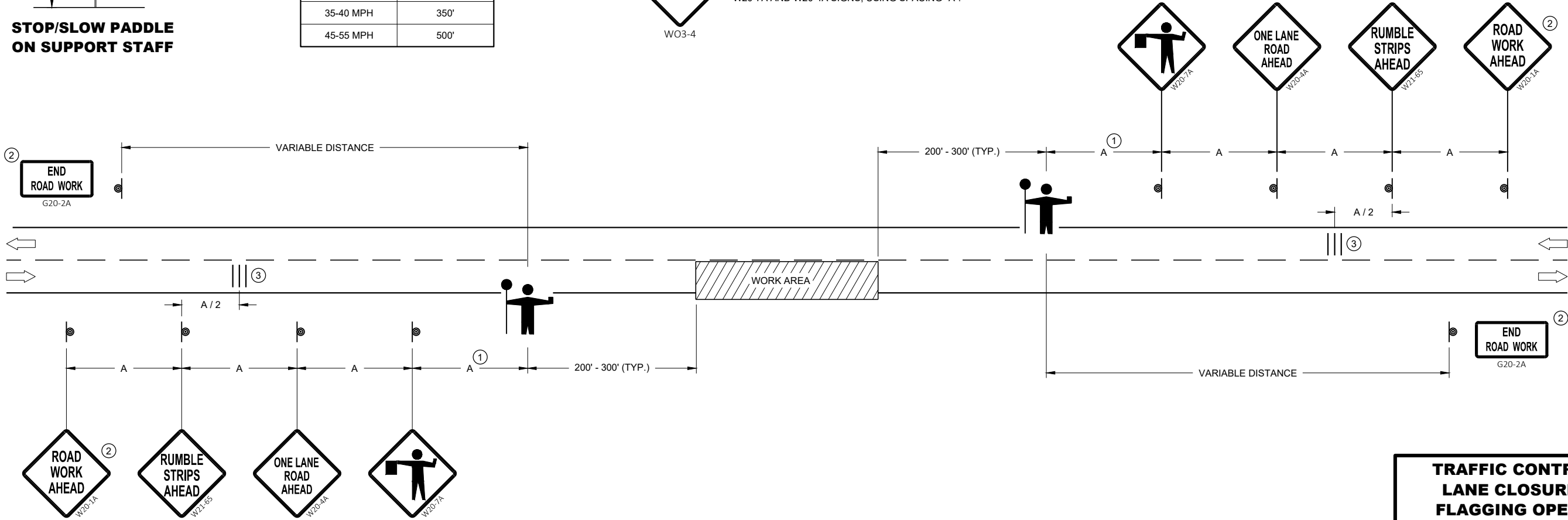


SIGN AND TEMPORARY RUMBLE STRIP ARRAY SPACING TABLE

SPEED LIMIT	SPACING "A"
25-30 MPH	200'
35-40 MPH	350'
45-55 MPH	500'



USE OF W03-4 SIGN IS OPTIONAL. WHEN USED, THIS SIGN SHALL BE LOCATED BETWEEN THE W20-7A AND W20-4A SIGNS, USING SPACING "A".



**TRAFFIC CONTROL FOR
LANE CLOSURE WITH
FLAGGING OPERATION**

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
May 2022 /S/ Andrew Heidtke
DATE WORK ZONE ENGINEER 38

FHWA

	SIGN ON PERMANENT SUPPORT
	TRAFFIC CONTROL CONE 42-INCH
	TRAFFIC CONTROL DRUM
	TEMPORARY PORTABLE RUMBLE STRIP ARRAY
	DIRECTION OF TRAFFIC
	WORK AREA
AFAD	AUTOMATED FLAGGER ASSISTANCE DEVICE (AFAD)

DETAILS OF TRAFFIC CONTROL DEVICES AND INSTALLATION NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS, THE SPECIAL PROVISIONS, AND THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES.

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

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

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

THE FIRST ADVANCE WARNING SIGN SHOULD TYPICALLY BE LOCATED IN ADVANCE OF THE ANTICIPATED TRAFFIC BACKUP OR QUEUE.

WHEN A SIDE ROAD OR RAMP INTERSECTS THE FACILITY ON WHICH THE WORK IS BEING PERFORMED, ADDITIONAL TRAFFIC CONTROLS SHALL BE PROVIDED AS SPECIFIED IN THE PLANS AND/OR THE SPECIAL PROVISIONS OR AS APPROVED BY THE ENGINEER.

IF THE AUTOMATED FLAGGER ASSISTANCE DEVICE (AFAD) STOPS WORKING, FLAGGERS SHALL BE IN SIGHT OF EACH OTHER OR IN DIRECT COMMUNICATION AT ALL TIMES. THEY SHALL BE EQUIPPED WITH STOP/SLOW PADDLES FASTENED ON SUPPORT STAFFS. WHEN THE FLAGGING OPERATION IS NOT IN EFFECT REMOVE TEMPORARY PORTABLE RUMBLE STRIPS PRIOR TO COVERING OR REMOVING ALL ADVANCE SIGNING.

WHEN THE DISTANCE BETWEEN FLAGGERS EXCEEDS 2 MILES, A PILOT CAR IS REQUIRED. WHEN CURVES REDUCE SIGHT DISTANCE BELOW 400', A PILOT CAR IS REQUIRED.

① SIGN NOT REQUIRED IF FLAGGING OPERATION OCCURS WITHIN A SIGNED ROAD WORK ZONE AREA.

② IF FLAGGERS ARE PHYSICALLY NEEDED TO FLAG, REPLACE WO3-4 SIGNS WITH W20-7A SIGNS.

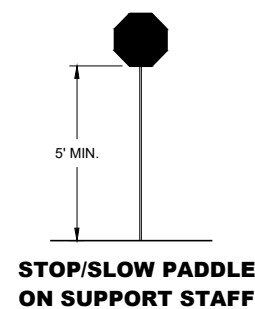
UTILIZE TEMPORARY PORTABLE RUMBLE STRIPS ON ALL FLAGGING OPERATIONS.

ONLY USE TEMPORARY PORTABLE RUMBLE STRIPS FROM THE APPROVED PRODUCTS LIST.

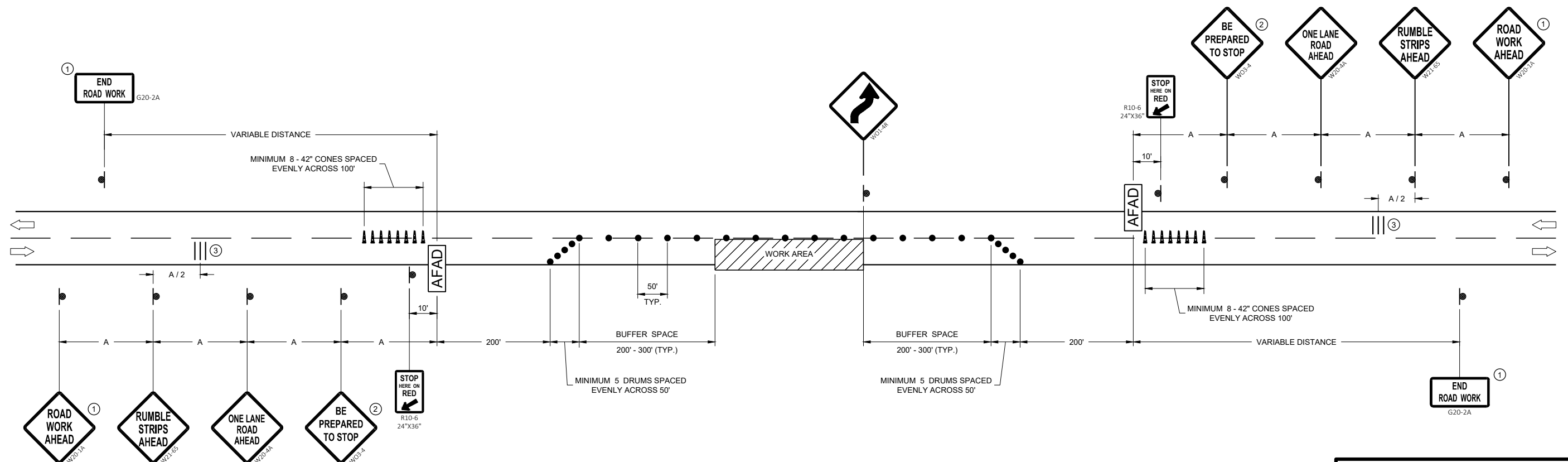
PLACE ADVANCE SIGNING PRIOR TO INSTALLING TEMPORARY RUMBLE STRIPS.

DO NOT INSTALL TEMPORARY PORTABLE RUMBLE STRIPS ON GRAVEL, MILLED SURFACES, OR ASPHALT THAT HAS BEEN PAVED LESS THAN 12 HOURS.

③ EACH TEMPORARY PORTABLE RUMBLE STRIP ARRAY CONSISTS OF THREE RUMBLE STRIPS PLACED TRANSVERSELY AT THE LOCATIONS SHOWN. WITHIN EACH ARRAY, SPACING BETWEEN RUMBLE STRIPS SHALL BE 15 FEET ON CENTER.



SPEED LIMIT	SPACING "A"
25-30 MPH	200'
35-40 MPH	350'
45-55 MPH	500'



**TRAFFIC CONTROL, LANE
CLOSURE WITH AUTOMATED
FLAGGER ASSISTANCE DEVICE**

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
May 2022
 DATE

/S/ Andrew Heidtke
 WORK ZONE ENGINEER

39

FHWA

LEGEND

- V1

LEAD VEHICLE
- V2

MARKING VEHICLE
- V3

SHADOW VEHICLE
- 

TRUCK MOUNTED ATTENUATOR (TMA)
- 

SIGN ON TEMPORARY SUPPORT
- 

DIRECTION OF TRAFFIC

GENERAL NOTES

ALL VEHICLES SHALL BE EQUIPPED WITH TWO 360 DEGREE HIGH INTENSITY YELLOW FLASHING LIGHTS OR STROBE LIGHTS AND OPERATED WITH HEADLIGHTS TURNED ON.

ALL VEHICLES SHALL BE EQUIPPED WITH REAR FACING TYPE B OR C FLASHING ARROW PANEL OPERATING IN CAUTION MODE. SIGNS PLACED ON VEHICLES MUST NOT OBSCURE THE ARROW PANEL.

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

DISTANCE BETWEEN VEHICLES MAY VARY ACCORDING TO TERRAIN, SIGHT DISTANCE, PAINT DRYING TIME, AND OTHER FACTORS. WHENEVER ADEQUATE STOPPING SIGHT DISTANCE EXISTS TO THE REAR, SHADOW VEHICLES SHOULD MAINTAIN THE MINIMUM DISTANCE FROM THE WORK VEHICLE AND PROCEED AT THE SAME SPEED AS THE WORK VEHICLE. SHADOW VEHICLES SHOULD SLOW DOWN IN ADVANCE OF VERTICAL AND HORIZONTAL CURVES THAT RESTRICT SIGHT DISTANCE.

THE WORK AND SHADOW VEHICLES SHOULD PULL OVER PERIODICALLY TO ALLOW TRAFFIC TO PASS.

WHEN NO WORK ACTIVITY IS TAKING PLACE, REMOVE OR LAY STATIONARY SIGNS AND SUPPORTS FLAT ON THE GRADE WITH

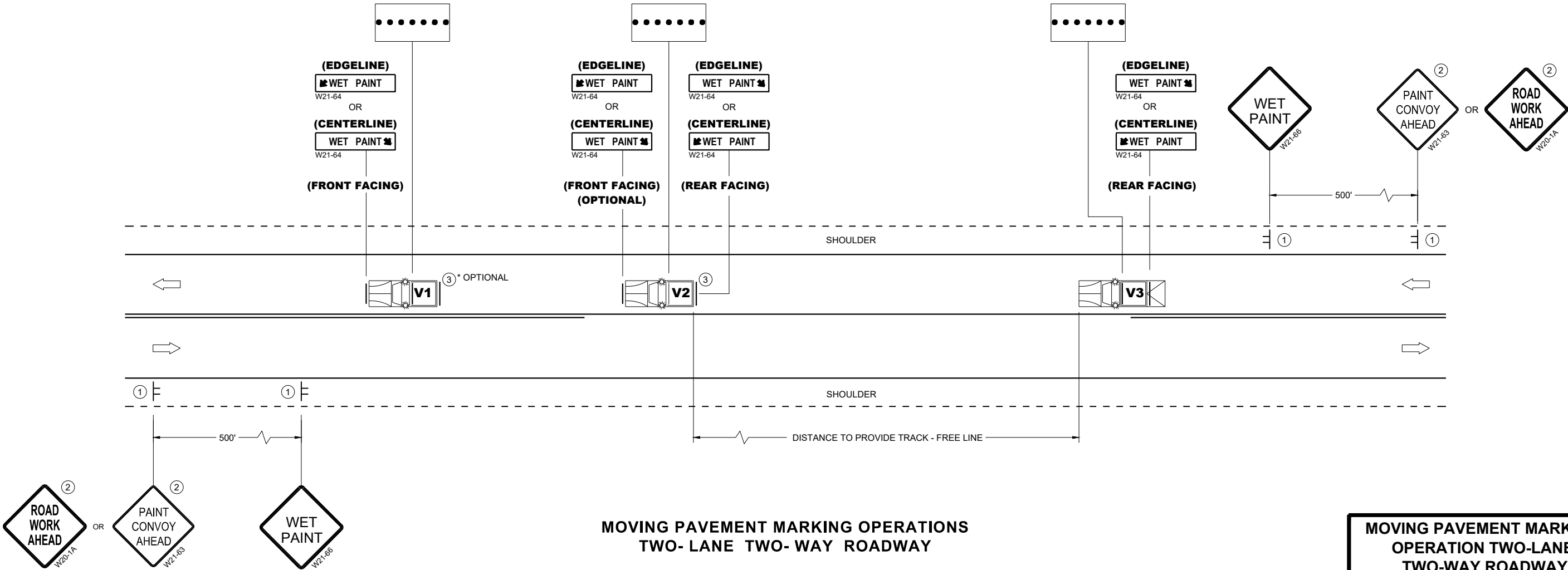
WORKERS SHALL NOT PERFORM WORK FROM ANY SHADOW OR PROTECTION VEHICLES.

UPRIGHTS ORIENTED PARALLEL TO AND DOWNSTREAM FROM TRAFFIC.

CONES SHOULD BE USED BETWEEN THE MARKING AND SHADOW VEHICLE AT 100 FOOT SPACING. CONES MAY BE OMITTED ON PAINTED LINE IF APPROVED BY THE ENGINEER. CONSIDER PAVEMENT MARKING DRY OR CURE TIMES AND TRAFFIC VOLUME.

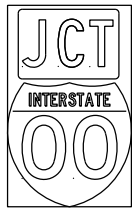
CONES SHALL BE A MINIMUM OF 28" FOR WET PAVEMENT MARKING .

- ① SIGNS SHALL BE REPEATED APPROXIMATELY EVERY THREE MILES AND AFTER EVERY MAJOR INTERSECTION.
- ② IF CONSTRUCTION WORK ZONE SIGNS ARE IN PLACE, W20-1A OR W21-63 ARE NOT REQUIRED.
- ③ V1 AND V2 CAN BE SWITCHED SO THAT THE MARKER IS THE LEAD VEHICLE.

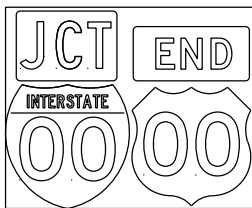


MOVING PAVEMENT MARKING OPERATION TWO-LANE TWO-WAY ROADWAY	
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION	
APPROVED November 2025 DATE	/S/ Andrew Heidtke STATE ELECTRICAL ENGINEER
FHWA	

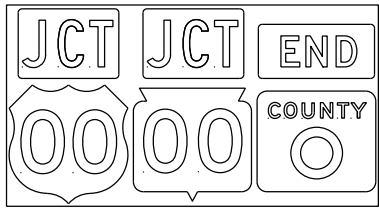
TYPICAL ASSEMBLIES



J1-1



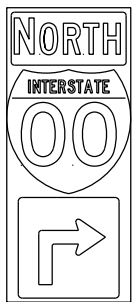
J1-2



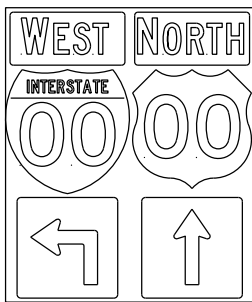
J1-3



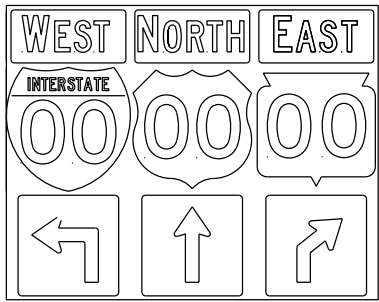
JR1-1



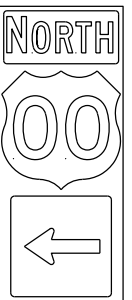
J2-1



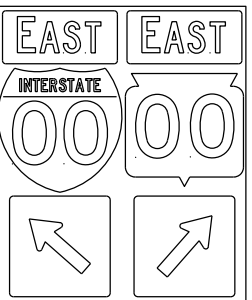
J2-2



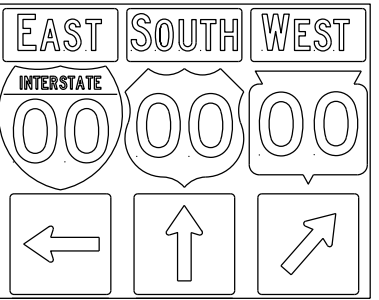
J2-3



J3-1



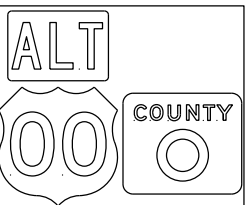
J3-2



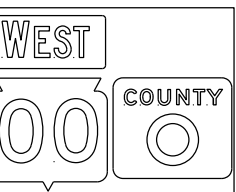
J3-3



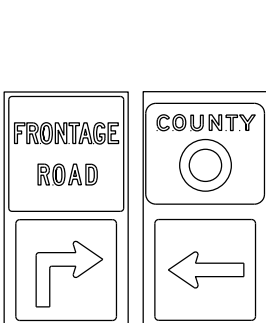
J4-1



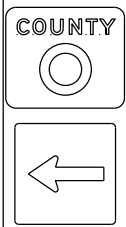
J4-2



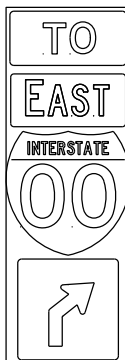
J4-2



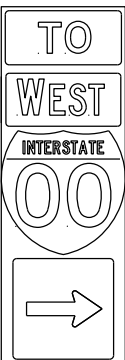
J12-1



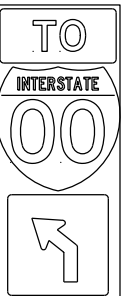
J13-1



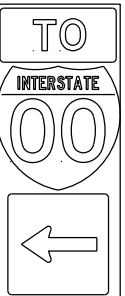
J32-1



J33-1



J22-1



J23-1



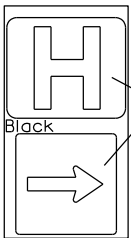
JR13-1



JR23-1



JR99-1

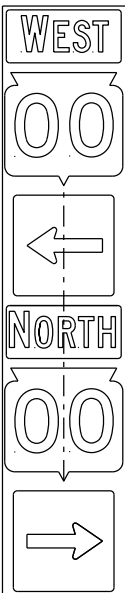
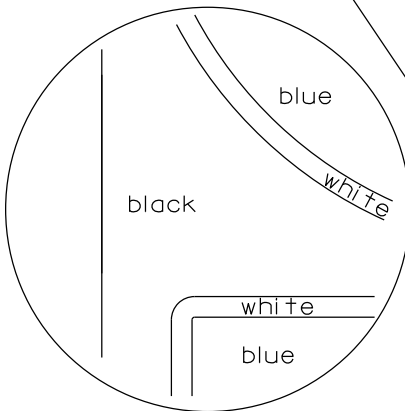


JH-1

Blue Background

Black

blue background with interstate

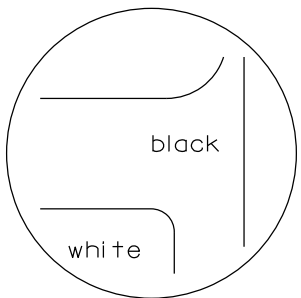
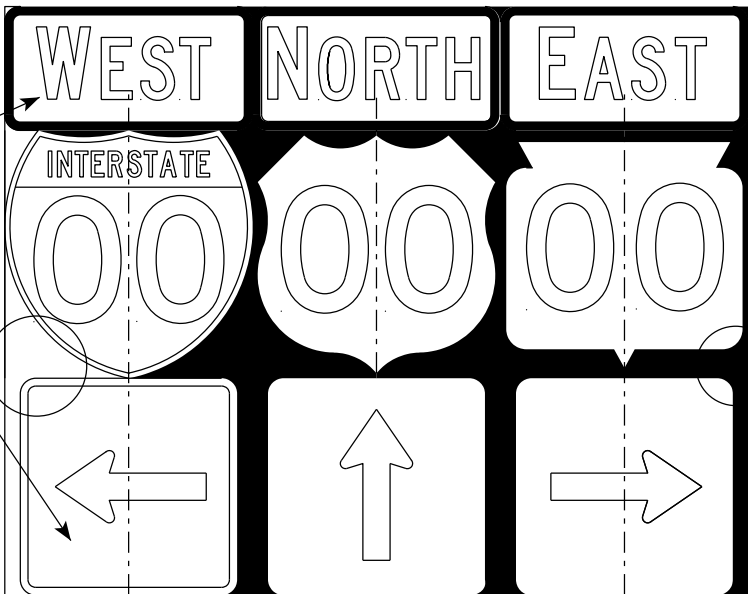


JV

(Typical Vertical J-Assembly
See Note 10 and 11)

NOTES

1. Signs are Type II - Type H Reflective
2. Color:
Background - Black Non-reflective
Message - see Note 4
3. Message Series - See Note 4
4. The colors and message spacing on each marker shall be according to the applicable route marker panel specifications.
5. Certain marker heads require the component pieces to be the same color. As an example, all the components used with an M1-1 Interstate marker shall be blue.
6. Single panel j-assemblies shall only be used with route marker shields that are same size. If the route marker shields are different size use multiple piece component.
7. Route assemblies that have 24 inch route shields and have dimensions greater than 48 inches (both vertical and horizontal) shall have one horizontal splice between the arrows and route shields. Vertical splices shall not be used on route assemblies with a horizontal dimension of 144 inches or less. The contractor shall not use more than one vertical joint per sign and the joint shall be between route shields.
8. Route assemblies that have 36 inch shields and have dimensions greater than 48 inches (both vertical and horizontal) shall have two horizontal splices. One horizontal splice shall be between the cardinal direction and route shields and the other horizontal splice shall be between the arrows and route shields. Vertical splices shall not be used on route assemblies with a horizontal dimension of 144 or less. The contractor shall not use more than one vertical joint per sign and the joint shall be between route shields.
9. All Vertical J Assemblies are given a Sign Code of JV
10. For JV Assemblies that have a mixture of Interstate and Non-Interstate shields, arrows and cardinals shall be white on blue.
11. For JV Assemblies that have a mixture of Non-Interstate and Auto-Tour shields, arrows and cardinals shall be black on white.



black background

ROUTE MARKERS & COMPONENTS
IN TYPICAL ASSEMBLIES

WISCONSIN DEPT OF TRANSPORTATION

APPROVED *Matthew R. Rauch*
for State Traffic Engineer

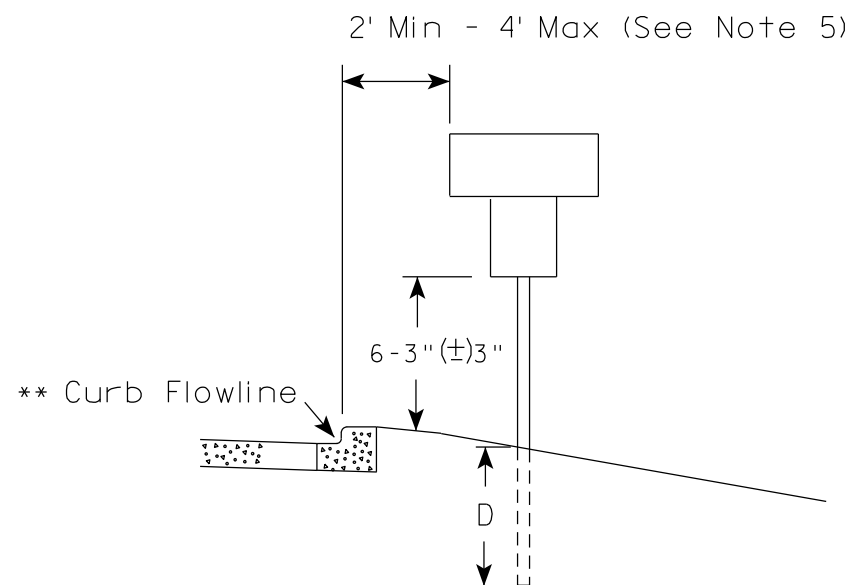
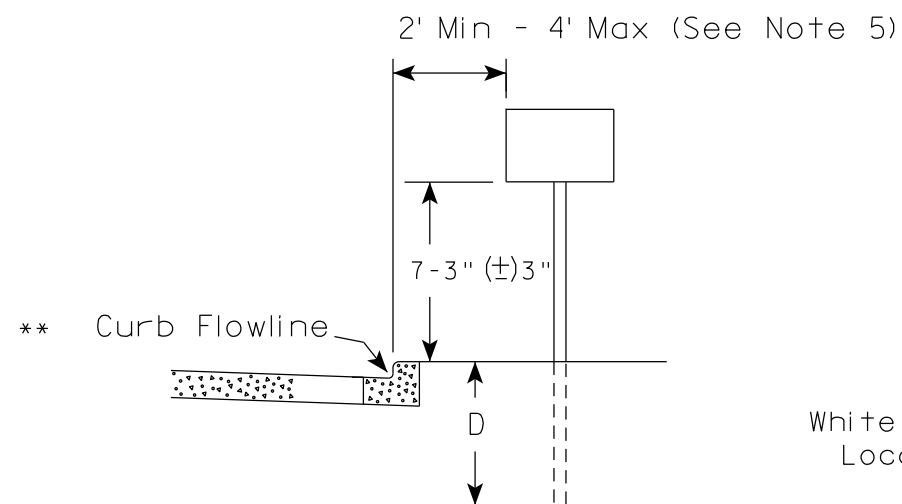
DATE 6/7/23 PLATE NO. A2-1S.10

PROJECT NO:

SHEET NO: 41

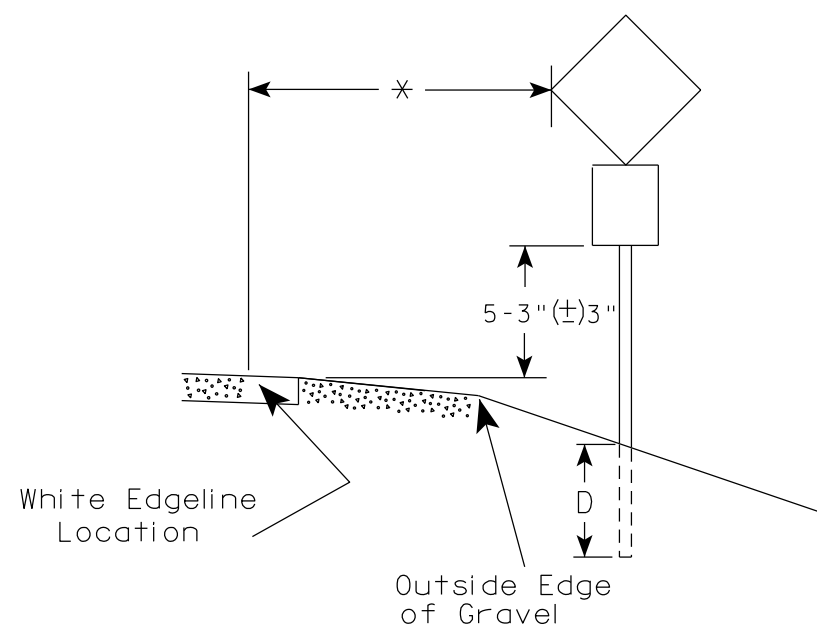
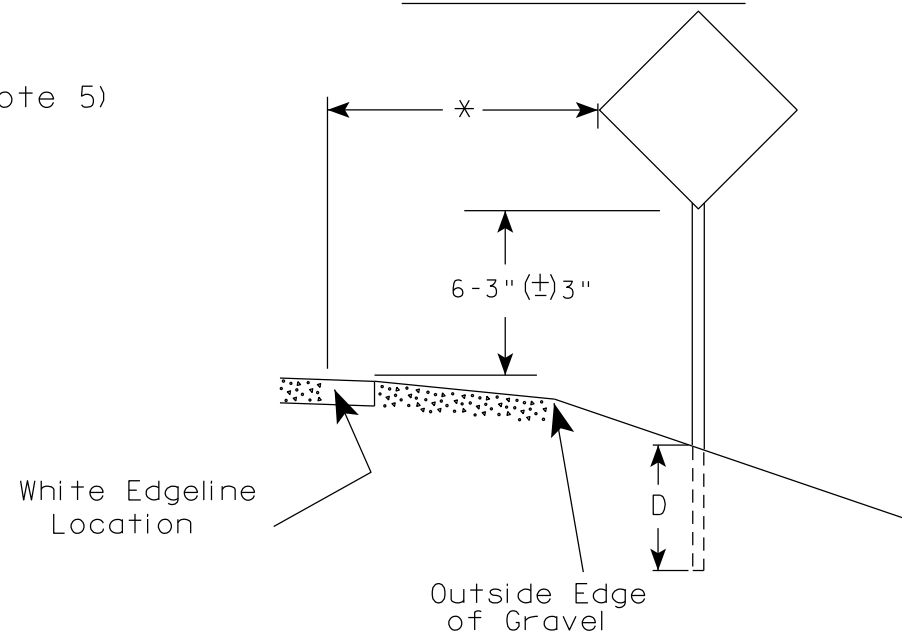
E

URBAN AREA



* * 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.

RURAL AREA (See Note 2)



* 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

- Signs wider than 4 feet or 20 sq.ft or larger, shall be mounted on multiple posts. Refer to plate A4-4.
- 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".
- For expressways and freeways, mounting height is 7'-3" (±) 3" or 6'-3" (±) 3" depending upon existence of a sub-sign.
- Minimum mounting height for signs mounted on traffic signal poles is 5'-3" (±) 3".
- Offset distance shall be consistent with existing signs or consistent throughout length of project.
- Folding signs shall be mounted at a height of 5'-3" (±) 3" or as directed 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

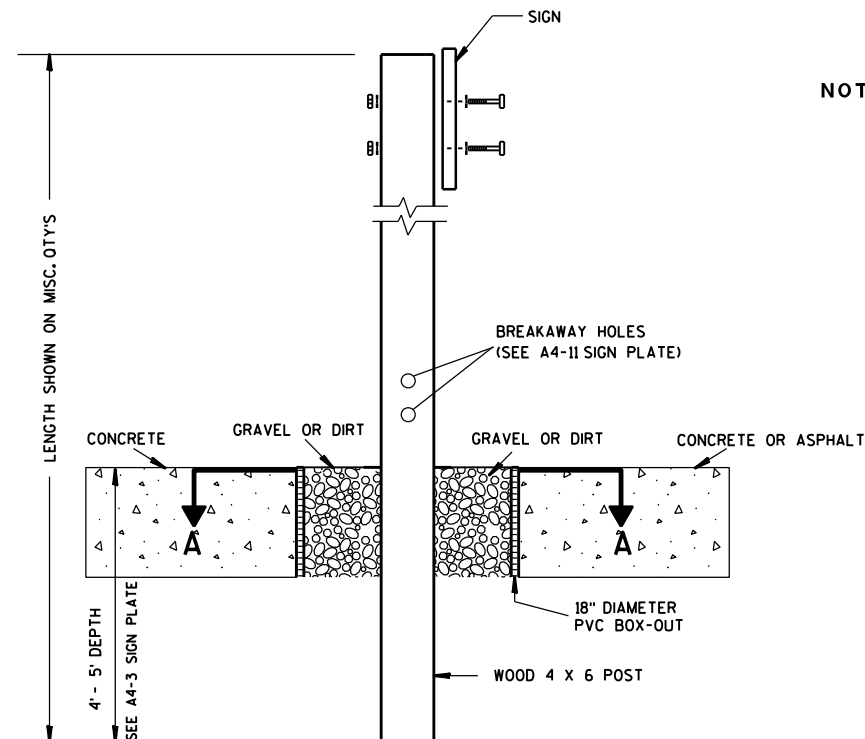
PROJECT NO:

HWY:

COUNTY:

SHEET NO: 42

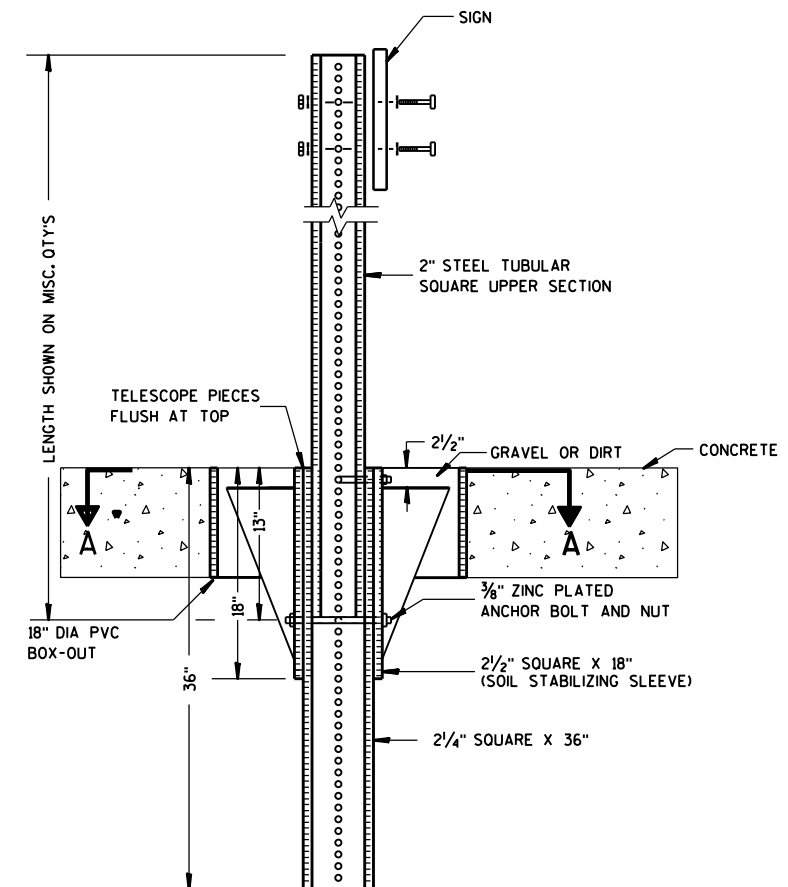
E



ELEVATION VIEW

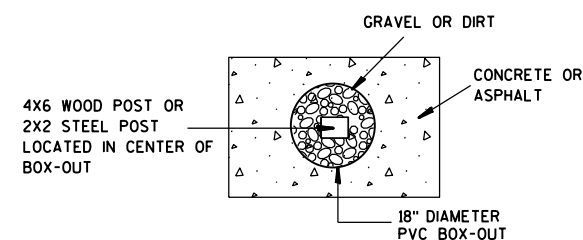
DETAIL OF WOOD 4 X 6 SIGN POST IN BOX-OUT

- 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 PLAT 43 A4-3B.1

PROJECT NO:

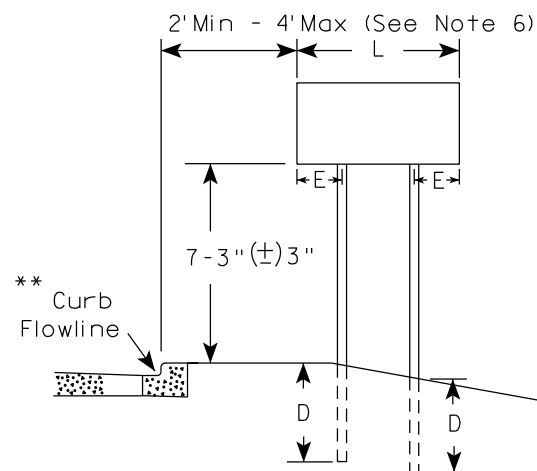
HWY:

COUNTY:

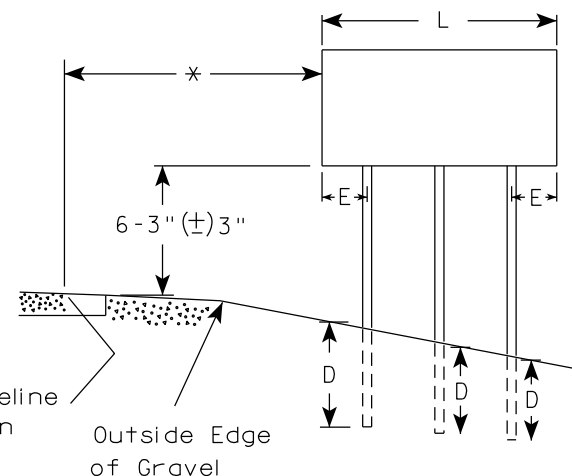
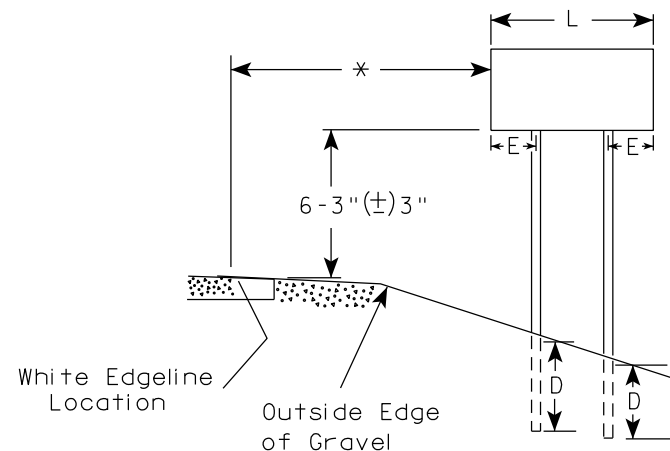
SHEET NO:

E

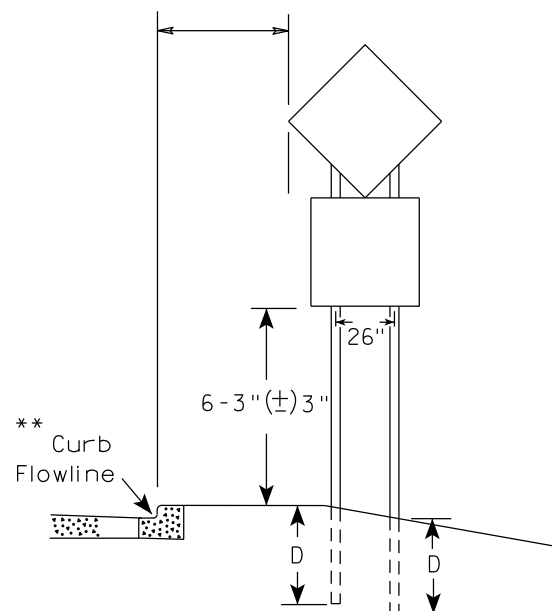
URBAN AREA



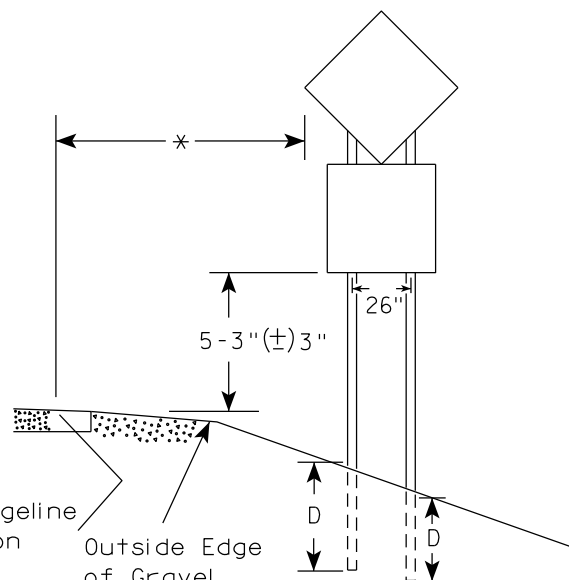
RURAL AREA (See Note 3)



2' Min - 4' Max (See Note 6)



48" DIAMOND WARNING SIGN



48" DIAMOND WARNING SIGN

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

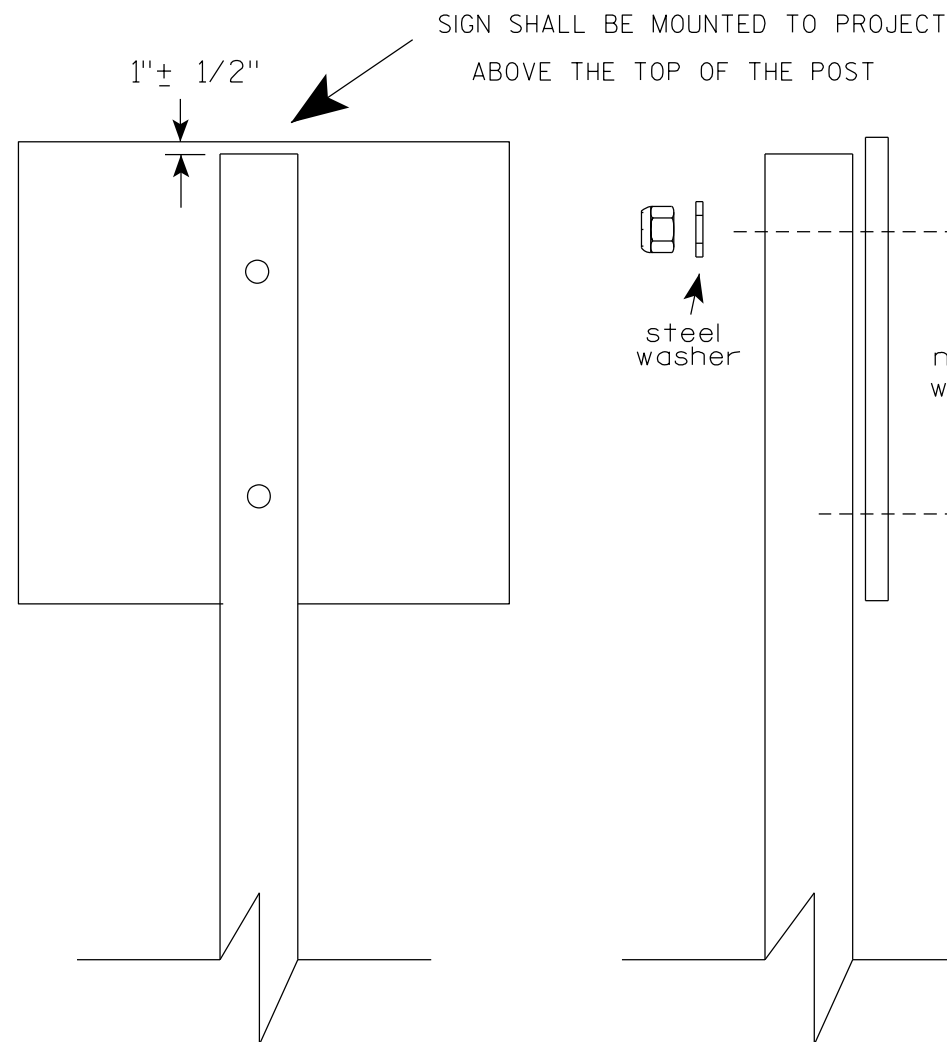
GENERAL NOTES

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.



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.

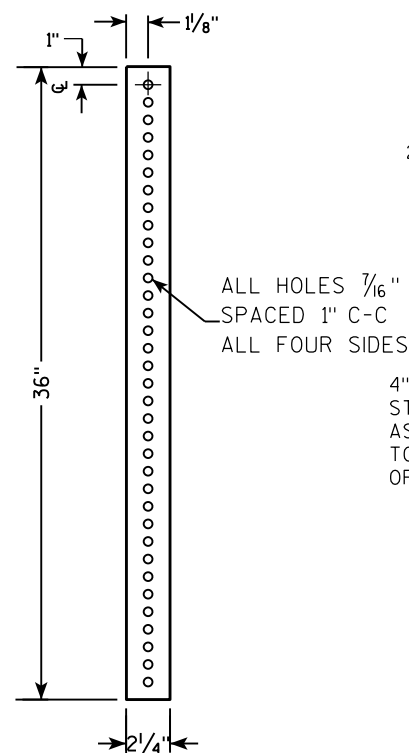
Threads on bolts and nuts shall be manufactured with sufficient allowance for the cadmium plate or galvanized coating to permit the nuts to run freely on the bolts.

- STRINGER BOLTING TO ALUMINUM SIGNS (SEE SIGN PLATE A4-18)
- MACHINE BOLTS - $\frac{5}{16}$ " X 1-3/4" Length w/ lock nuts
- WOOD POSTS (4" x 6")
- LAG SCREWS - $\frac{3}{8}$ " X 3" (NO STRINGERS ON BACK OF SIGN)
 $\frac{3}{8}$ " X 4" (STRINGERS ON BACK OF SIGN)
- SQUARE STEEL POSTS (2" x 2")
- MACHINE BOLTS - $\frac{3}{8}$ " X 3-1/4" Length w/ nuts (NO STRINGER ON BACK OF SIGN)
 $\frac{3}{8}$ " X 5" Length w/ nuts (STRINGERS ON BACK OF SIGN)
- RIVETS - $\frac{9}{32}$ " (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 $\frac{3}{8}$ " I.D. X $\frac{1}{16}$ " STEEL
 - 1-1/4" O.D. X $\frac{3}{8}$ " 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	<i>Matthew R. Rauch</i> For State Traffic Engineer
DATE 4/1/2020	PLATE NO. A4-8.9

**2 1/4 " SQUARE
12 GAUGE
PERFORATED
GALVANIZED FINISH**



2 1/2" TELES PAR TUBE

4" x 10" x 10 GA. STEEL PLATE (CUT AS SHOWN) WELDED TO ALL FOUR CORNERS OF TELES PAR TUBE

4"

2 1/2"

10"

3 1/2"

18"

[illegible]

TECHNICAL DRAWING OF A SIGNPOST ASSEMBLY.

Side View (Left):

- Overall height dimension: LENGTH SHOWN ON MISC. Q'TYS
- Section A-A is indicated at the base.
- Vertical dimensions from the base: 36", 18", and 12".
- Label: TELESCOPE PIECES FLUSH AT TOP

End View (Right):

- Top section: 2" STEEL TUBULAR SQUARE UPPER SECTION
- Sign assembly: SIGN (plate) with A4-8 BOLTS, WASHERS, & NUTS.
- Post body: ALL HOLES $\frac{7}{16}$ " SPACED 1" C-C ALL FOUR SIDES
- Corner fasteners: $\frac{3}{8}$ " ZINC PLATED CORNER ANCHOR BOLT AND NUT (1" spacing)
- Base fasteners: $\frac{3}{8}$ " ZINC PLATED ANCHOR BOLT AND NUT
- Soil stabilizing sleeve: $2\frac{1}{2}$ " SQUARE X 18" (SOIL STABILIZING SLEEVE)
- Post body: $2\frac{1}{4}$ " SQUARE X 36"

DIRECTION
OF TRAFFIC

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 PLATI 46 14-9.9

SHEET NO:

E

PROJECT NO:

HWY:

COUNTY:

FILE NAME : C:\CAEFiles\Projects\tr_stdplate\A49.DGN

PLOT DATE : 05-FEB-2015 17:09

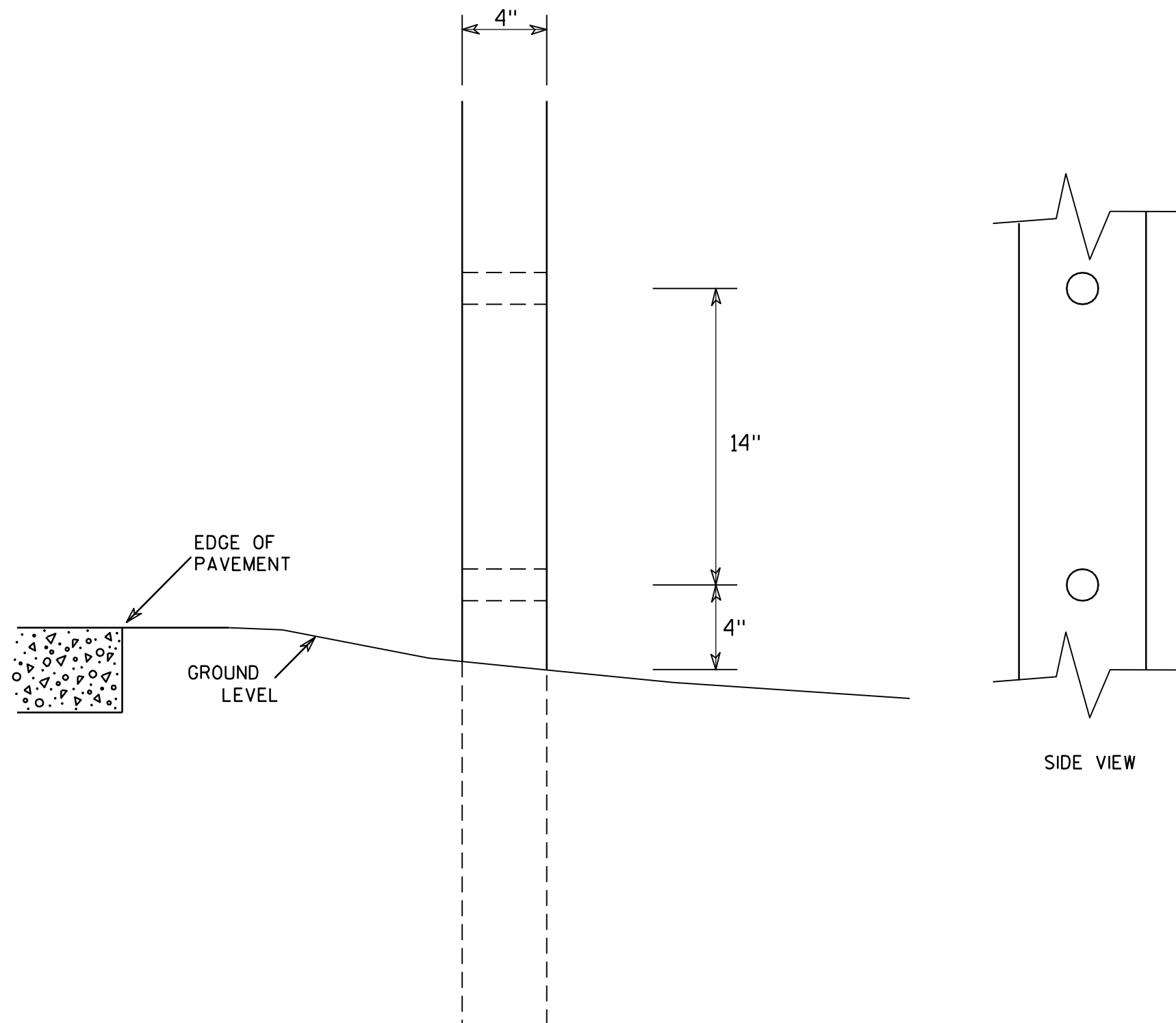
PLOT BY : mscs_ja

PLOT NAME :

PLOT SCALE : 13.659812:1.000000

WISDOT/CADDS SHEET 42

7



GENERAL NOTES

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

7

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:

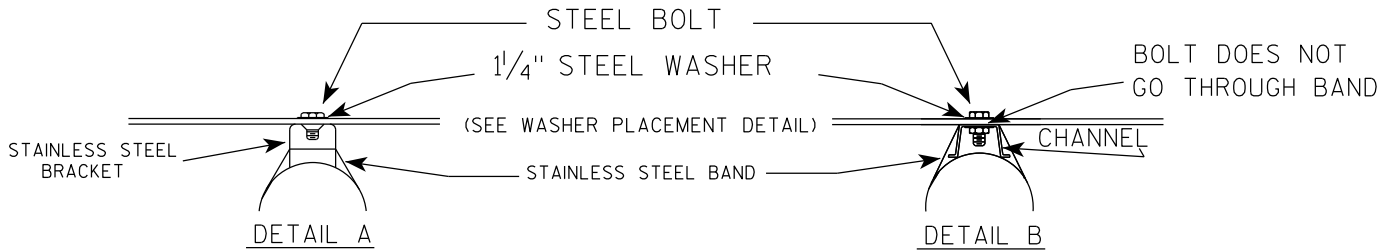
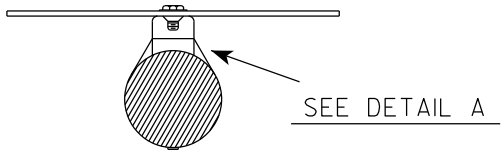
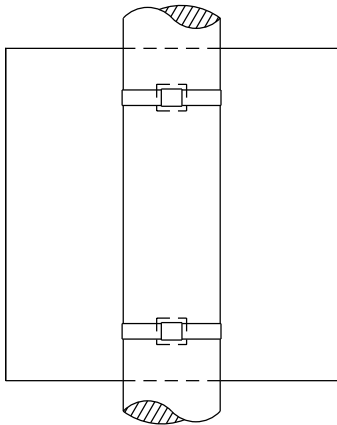
COUNTY:

SHEET NO: 47

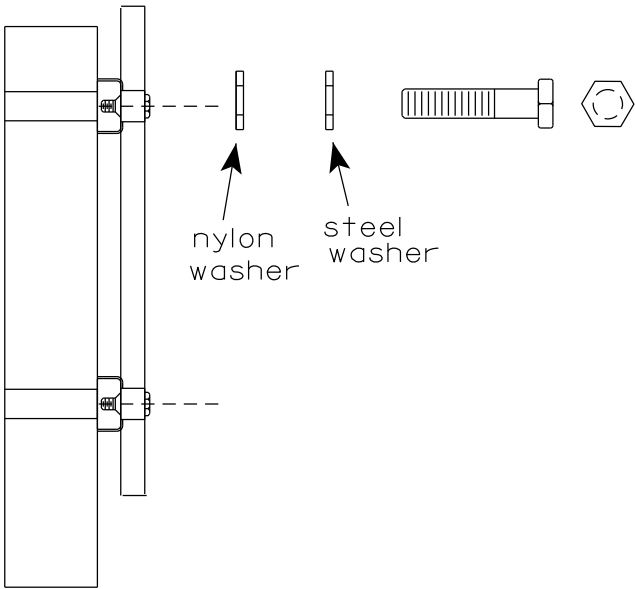
E

BANDING

SINGLE SIGN



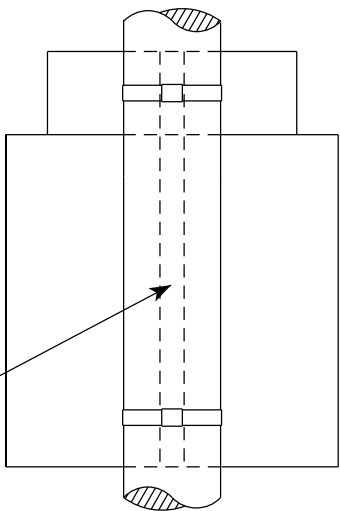
WASHER PLACEMENT



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

CHANNEL
SEE TYPICAL PANEL
INSTALLATION SHEET

"J" ASSEMBLY



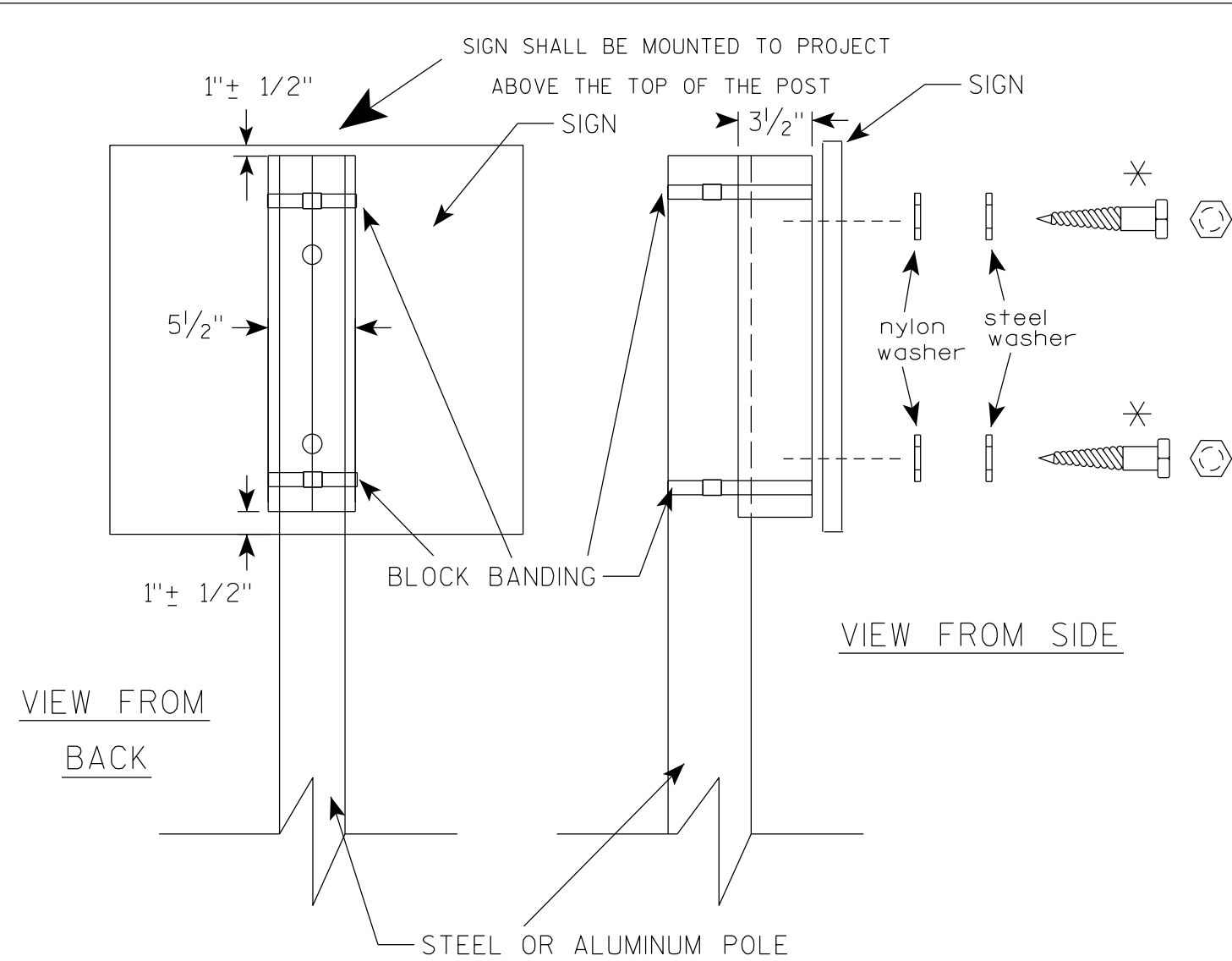
SEE DETAIL B

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 3/4" 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

STANDARD SIGN
SIGN BANDING DETAILS

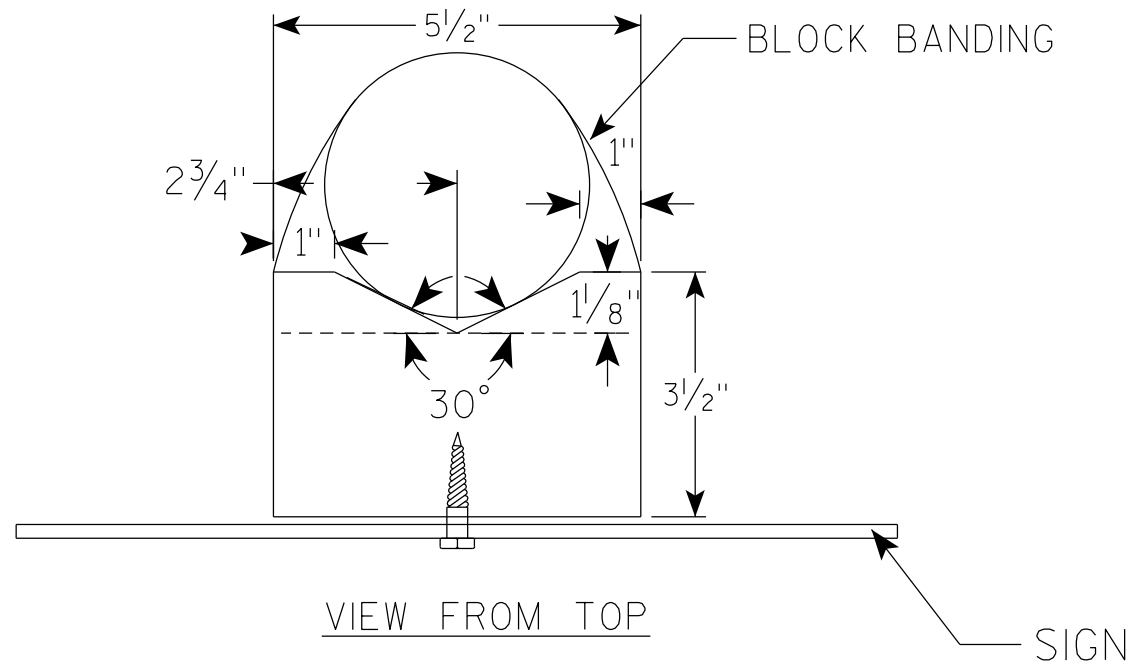
WISCONSIN DEPT OF TRANSPORTATION

APPROVED *Matthew R. Rauch*
for State Traffic Engineer
DATE 6/10/19 PLATE NO. A5-9.4



VIEW FROM
BACK

VIEW FROM SIDE



VIEW FROM TOP

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, $\frac{3}{4}$ " 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 NORMALLY 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 $\frac{1}{4}$ " O.D. X $\frac{3}{8}$ " I.D. X $\frac{1}{16}$ "
8. NYLON WASHERS SHALL BE $\frac{1}{4}$ " O.D. X $\frac{3}{8}$ " I.D. X .080 FOR TYPE H OR TYPE F FACE SIGN

✱ LAG BOLTS SHALL BE $\frac{3}{8}$ " X $2\frac{1}{2}$ "

BLOCK BANDING DETAIL
(V-BLOCK OPTION)

WISCONSIN DEPT OF TRANSPORTATION

APPROVED *Matthew R. Rauch*
for State Traffic Engineer

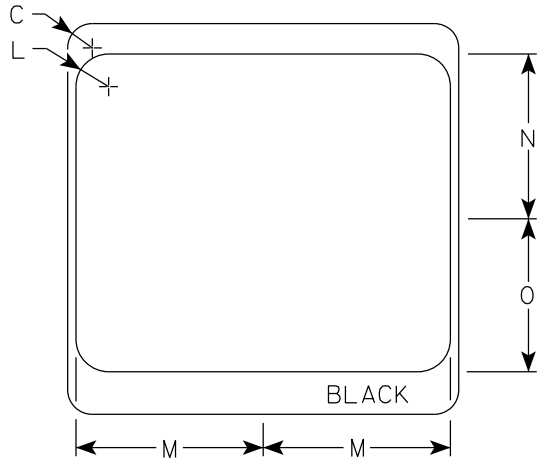
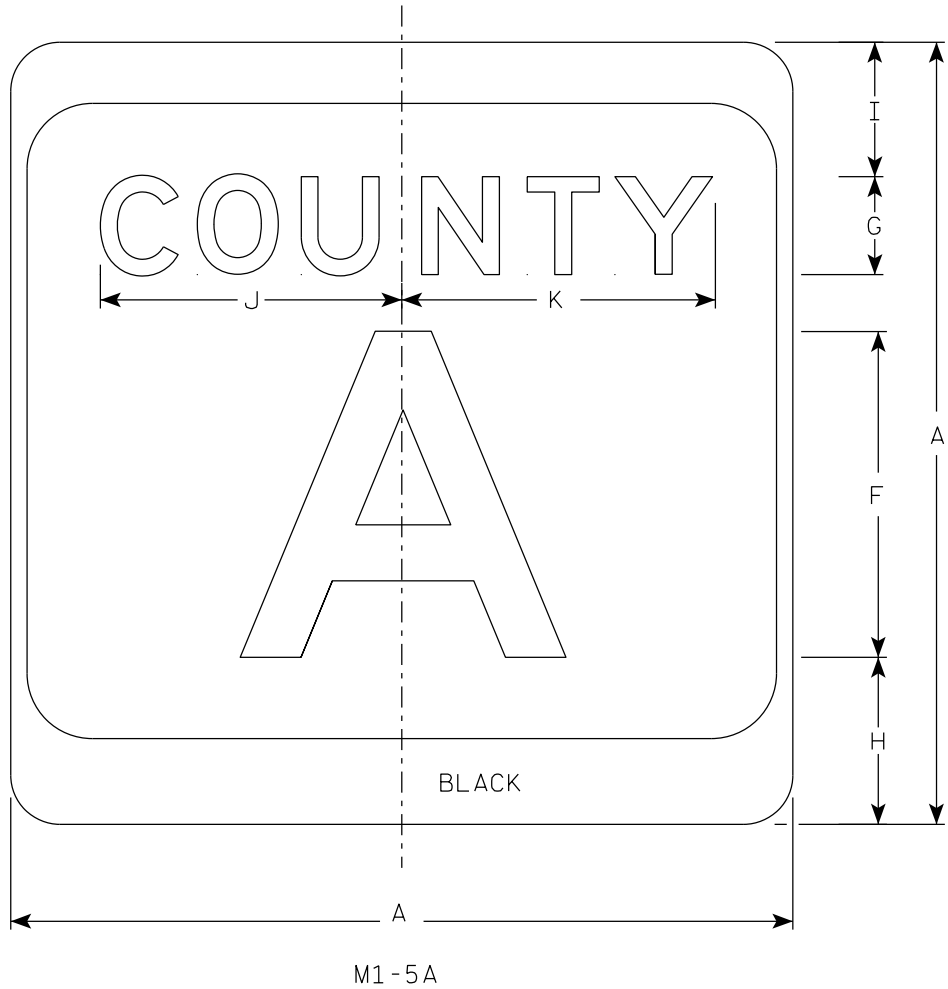
DATE 4/19/2022 PLATE NO. A5-10.3

PROJECT NO:

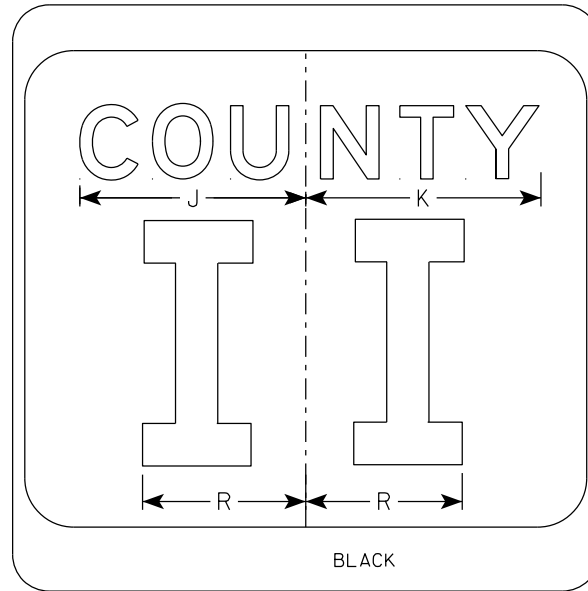
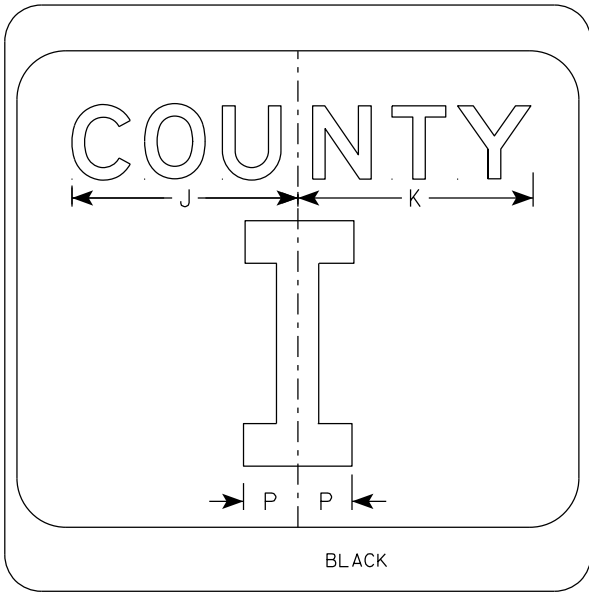
SHEET NO: 49

E

7



- NOTES
- Sign is Type II - Type H Reflective
 - Color:
Background - White & Black
Message - Black
 - Message Series - see Note 4
 - Message Series E for 1 letter.
Message Series D for 2 letters unless message is too big then Series C.
Message Series C for 3 letters unless message is too big then Series B.
 - Substitute appropriate letters & optically center to achieve proper balance.



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			10	3	5 1/8	4 1/8	9 1/4	9 5/8	2	11 1/2	10 1/8	9 3/8	2 1/4		6 5/8									4.0
2M	24		1 1/2			10	3	5 1/8	4 1/8	9 1/4	9 5/8	2	11 1/2	10 1/8	9 3/8	2 1/4		6 5/8									4.0
3	36		2 1/4			16	4	7 5/8	5 5/8	12 1/4	12 7/8	3	17 1/8	15 1/4	14	3 3/8		10									9.0
4	36		2 1/4			16	4	7 5/8	5 5/8	12 1/4	12 7/8	3	17 1/8	15 1/4	14	3 3/8		10									9.0
5	36		2 1/4			16	4	7 5/8	5 5/8	12 1/4	12 7/8	3	17 1/8	15 1/4	14	3 3/8		10									9.0

CTH MARKER

M1-5A FOR ASSEMBLIES

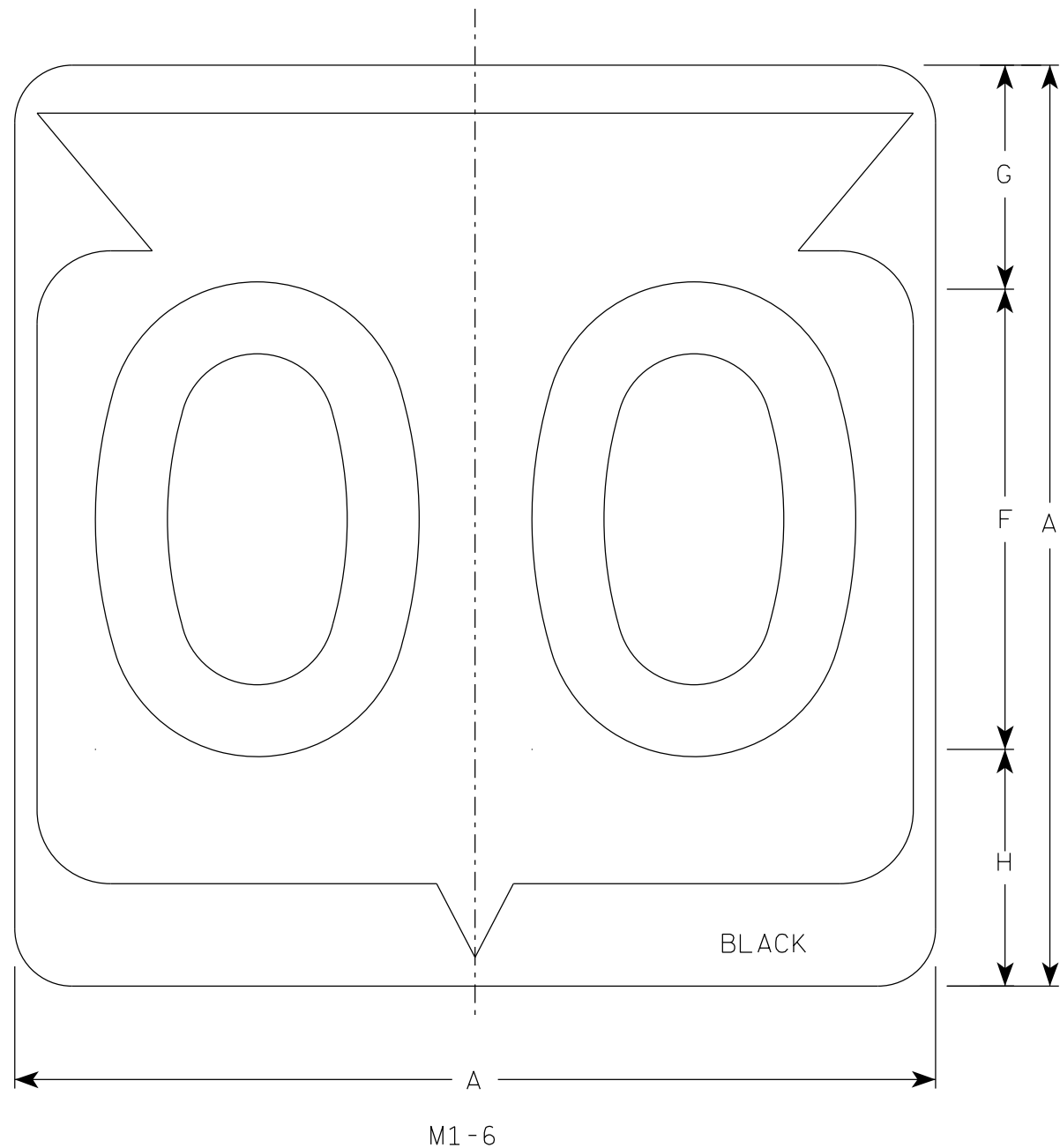
WISCONSIN DEPT OF TRANSPORTATION

APPROVED *Matthew R. Rauch*
for State Traffic Engineer

DATE 11/8/2022 PLATE NO. M1-5A.9

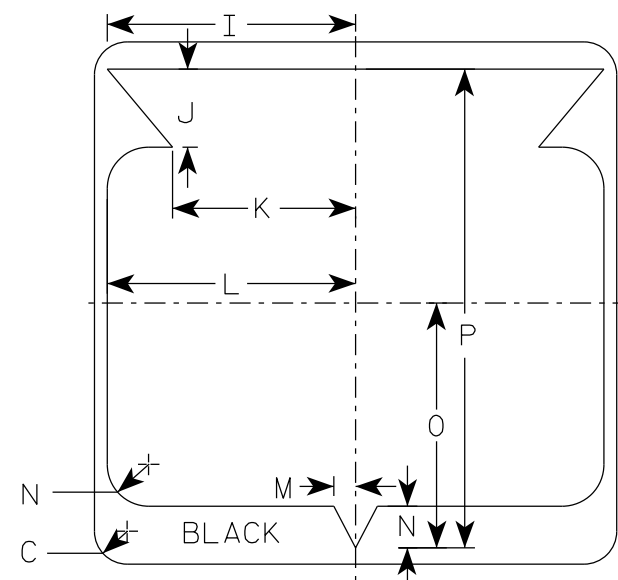
7

7



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



7

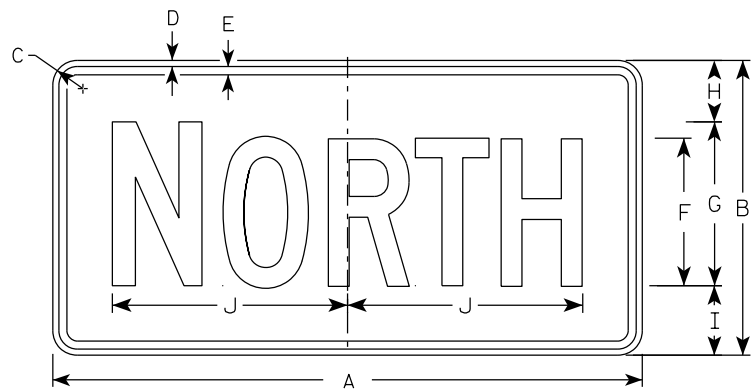
SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2	24		1 1/2			12	5 1/2	6 1/2	10 1/4	2 1/2	8 7/8	11 1/2	1	1 7/8	11 1/4	21 7/8											4.0
2M	24		1 1/2			12	5 1/2	6 1/2	10 1/4	2 1/2	8 7/8	11 1/2	1	1 7/8	11 1/4	21 7/8											4.0
3	36		2 1/4			18	8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

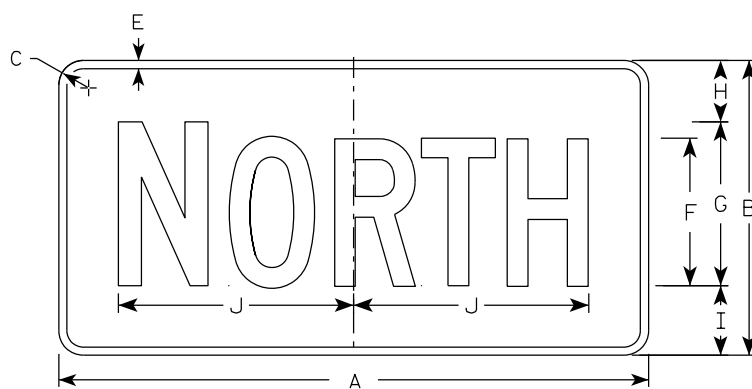
WISCONSIN DEPT OF TRANSPORTATION

APPROVED *Matthew R. Rauch*
for State Traffic Engineer

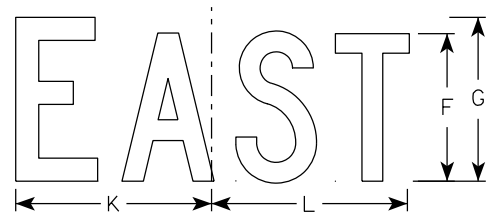
DATE 11/8/2022 PLATE NO. M1-6.11



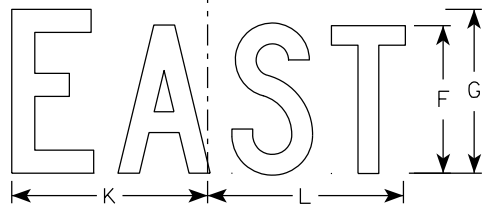
M3-1
MM3-1
MP3-1



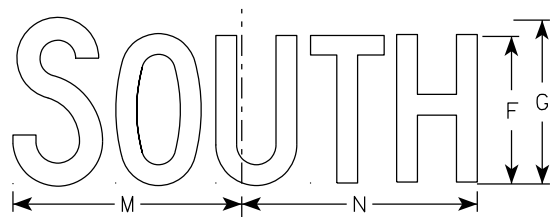
MB3-1
MK3-1
MN3-1



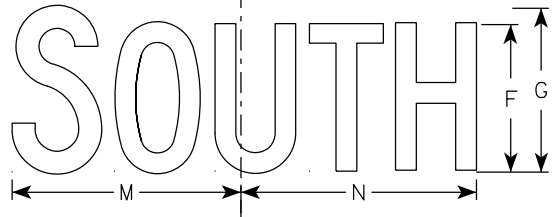
M3-2
MM3-2
MP3-2



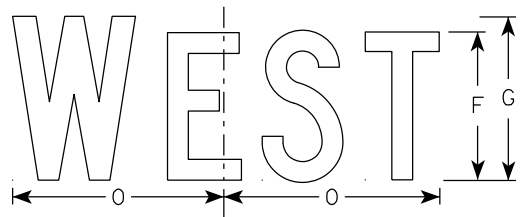
MB3-2
MK3-2
MN3-2



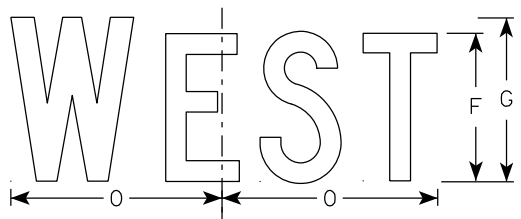
M3-3
MM3-3
MP3-3



MB3-3
MK3-3
MN3-3



M3-4
MM3-4
MP3-4



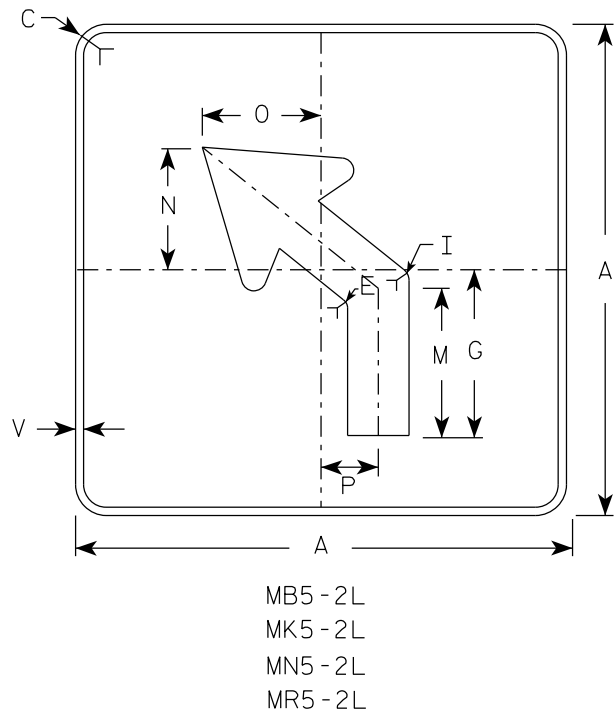
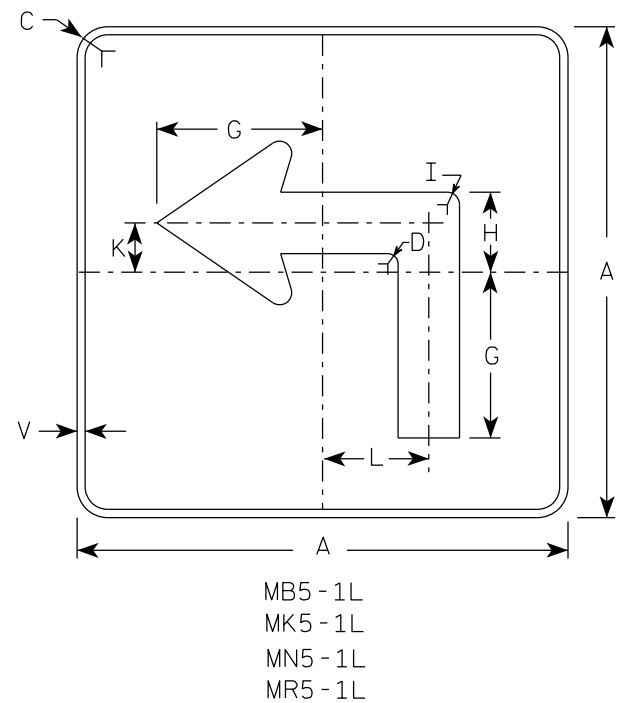
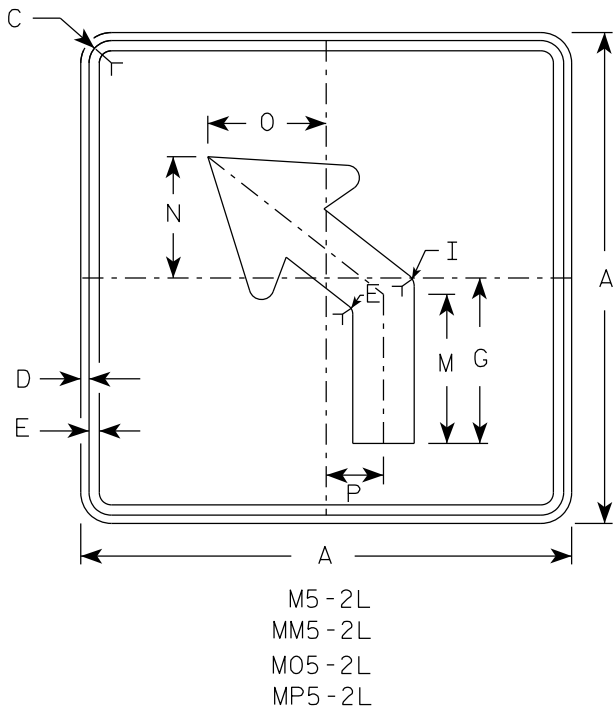
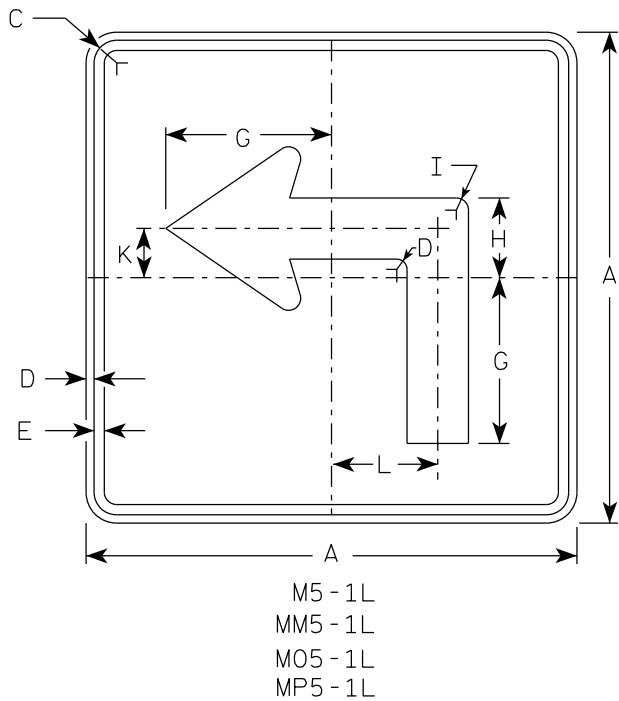
MB3-4
MK3-4
MN3-4

NOTES

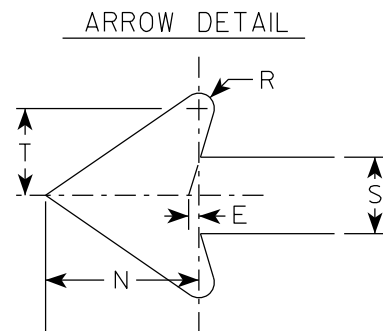
- All Signs Type II - Type H Reflective
- Color:
 - Background - See note 5
 - Message - See note 5
- Message Series - C
- Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
- M3-1 thru M3-4 Background - White
Message - Black
MB3-1 thru MB3-4 Background - Blue
Message - White
MK3-1 thru MK3-4 Background - Green
Message - White
MM3-1 thru MM3-4 Background - White
Message - Green
MN3-1 thru MN3-4 Background - Brown
Message - White
MP3-1 thru MP3-4 Background - White
Message - Blue
- Note the first letter of each direction is larger than the remainder of the message.

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	7	2 1/4	2 3/4	10 1/4	7 7/8	8 3/8	10 1/4	9 3/4	8 3/4												2.00
2M	24	12	1 1/2	3/8	3/8	6	7	2 1/4	2 3/4	10 1/4	7 7/8	8 3/8	10 1/4	9 3/4	8 3/4												2.00
3	36	18	1 1/2	3/8	1/2	9	10	3 3/4	4 1/4	14 3/8	12	12 1/8	14	14 1/8	13												4.5
4	36	18	1 1/2	3/8	1/2	9	10	3 3/4	4 1/4	14 3/8	12	12 1/8	14	14 1/8	13												4.5
5	36	18	1 1/2	3/8	1/2	9	10	3 3/4	4 1/4	14 3/8	12	12 1/8	14	14 1/8	13												4.5

PROJECT NO:	HWY:	COUNTY:	SHEET NO: 52	E
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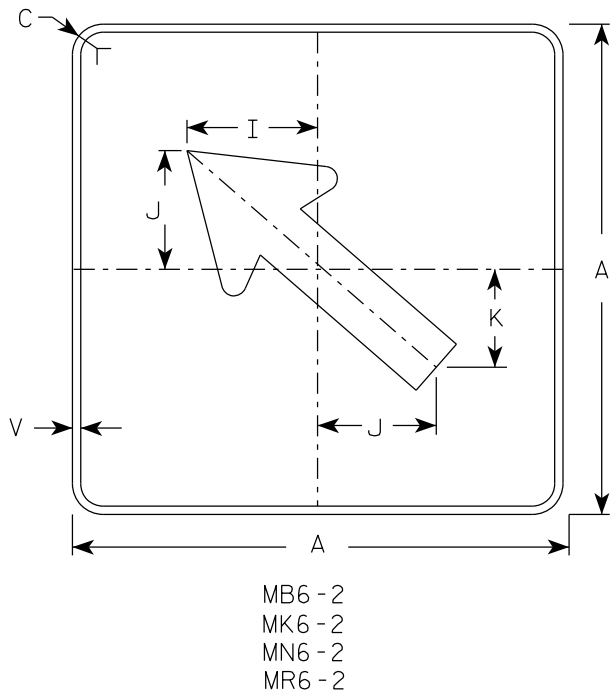
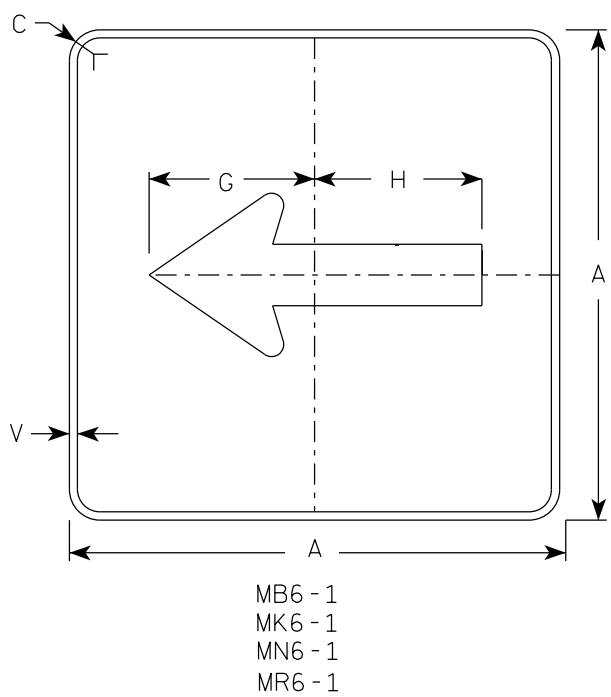
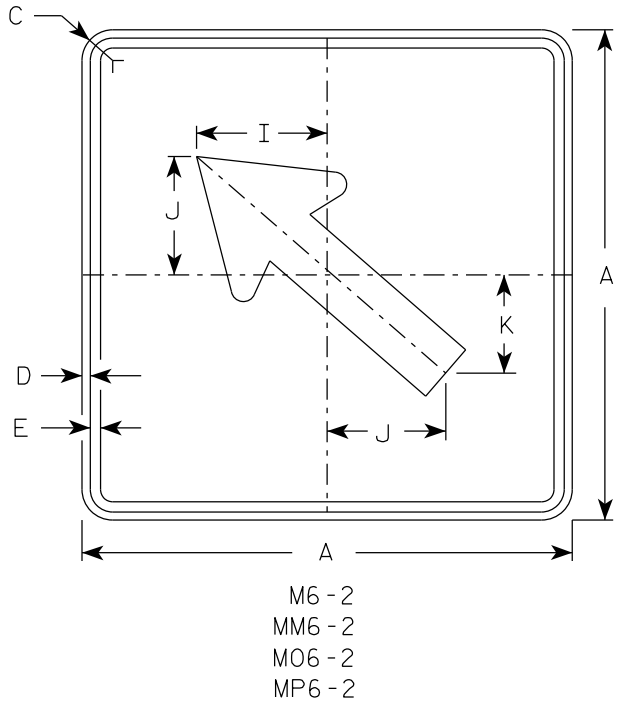
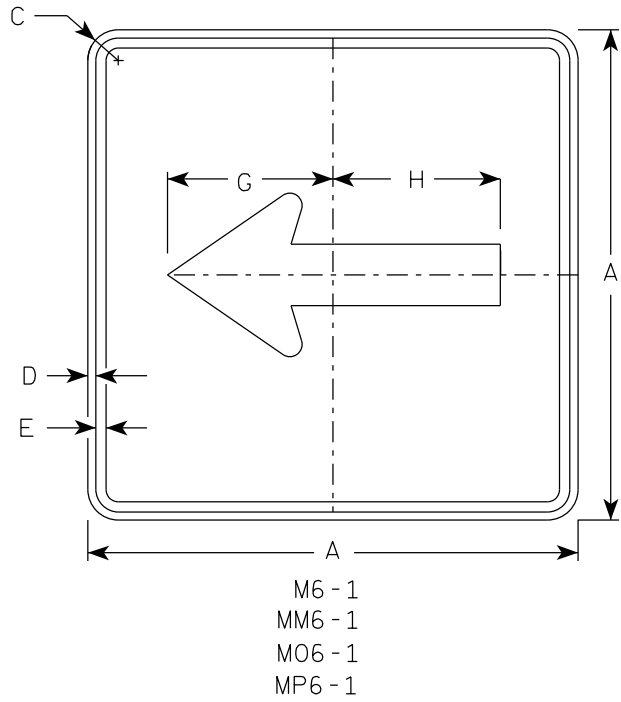


- NOTES
- Signs are Type II - Type H reflective except as shown
 - Color:
Background - See note 4
Message - See note 4
 - Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
 - | | | |
|-----------|-------|---|
| 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 |
| M05-1 and | M05-2 | 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 |
 - M5-1R same as M5-1L except arrow points right.
 - M5-2R same as M5-2L except arrow tilts right.

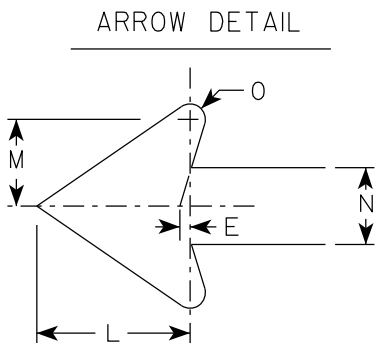


SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2S	21		1 1/2	3/8	3/8		7	3 3/8	5/8		2 1/8	4 1/2	6 3/8	5 1/4	5	2 1/2		1/2	2 5/8	3		1/2					3.06
2M	21		1 1/2	3/8	3/8		7	3 3/8	5/8		2 1/8	4 1/2	6 3/8	5 1/4	5	2 1/2		1/2	2 5/8	3		1/2					3.06
3	30		1 7/8	1/2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

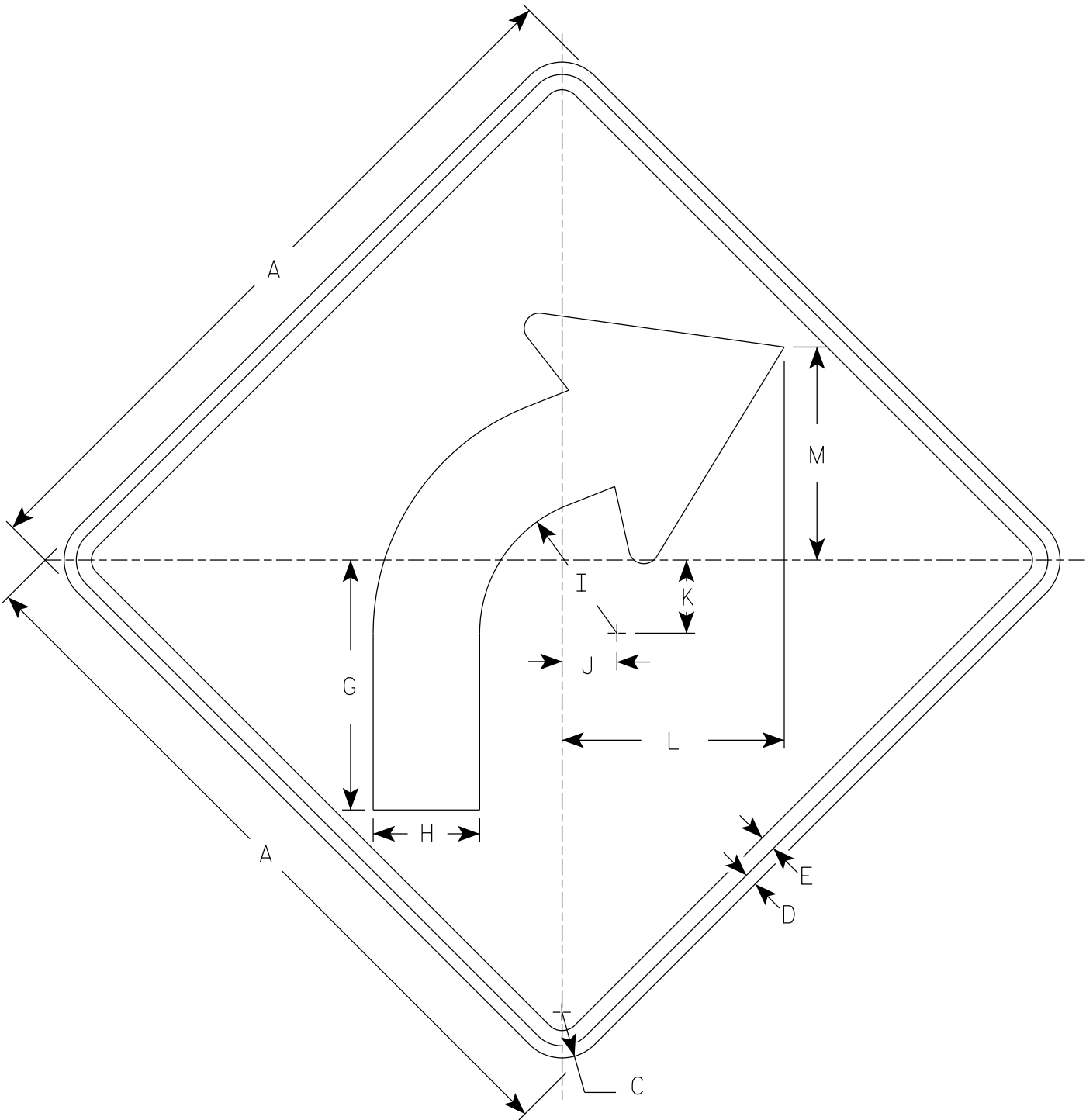
PROJECT NO:		HWY:		COUNTY:		SHEET NO: 53		E
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- NOTES**
- Signs are Type II - Type H Reflective except as Shown
 - Color:
Background - See note 4
Message - See note 4
 - Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
 - 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
M06-1 and M06-2 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



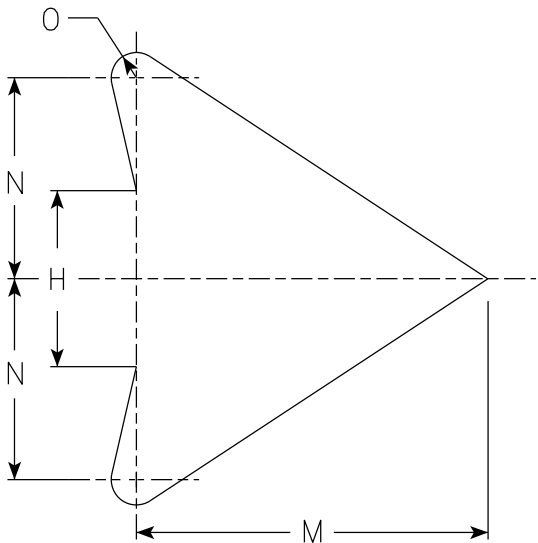
SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2S	21		1 1/2	3/8	3/8		7 1/2	7 1/8	5 5/8	5	4 1/4	5 1/4	3	2 5/8	1/2							1/2					3.06
2M	21		1 1/2	3/8	3/8		7 1/2	7 1/8	5 5/8	5	4 1/4	5 1/4	3	2 5/8	1/2							1/2					3.06
3	30		1 7/8	1/2	5/8		10 3/4	10 1/4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



W1-2R

NOTES

- 1. Sign is Type II - Type F Reflective
- 2. Color:
Background - Yellow
Message - Black
- 3. W1-2L is the same as W1-2R except the arrow is reversed along the vertical centerline.



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	24		1 1/2	3/8	1/2		8 1/4	3 1/2	4 1/2	1 3/4	2 3/8	7 1/4	7	4	1/2												4.0
2S	30		1 7/8	1/2	5/8		10 1/4	4 3/8	5 5/8	2 1/4	3	9 1/8	8 3/4	5	5/8												6.25
2M	36		2 1/4	5/8	3/4		12 3/8	5 1/4	6 3/4	2 5/8	3 1/2	10 7/8	10 1/2	6	3/4												9.0
3	36		2 1/4	5/8	3/4		12 3/8	5 1/4	6 3/4	2 5/8	3 1/2	10 7/8	10 1/2	6	3/4												9.0
4	36		2 1/4	5/8	3/4		12 3/8	5 1/4	6 3/4	2 5/8	3 1/2	10 7/8	10 1/2	6	3/4												9.0
5	48		3	3/4	1		16 1/2	7	9	3 1/2	4 5/8	14 1/2	14	8	1												16.0

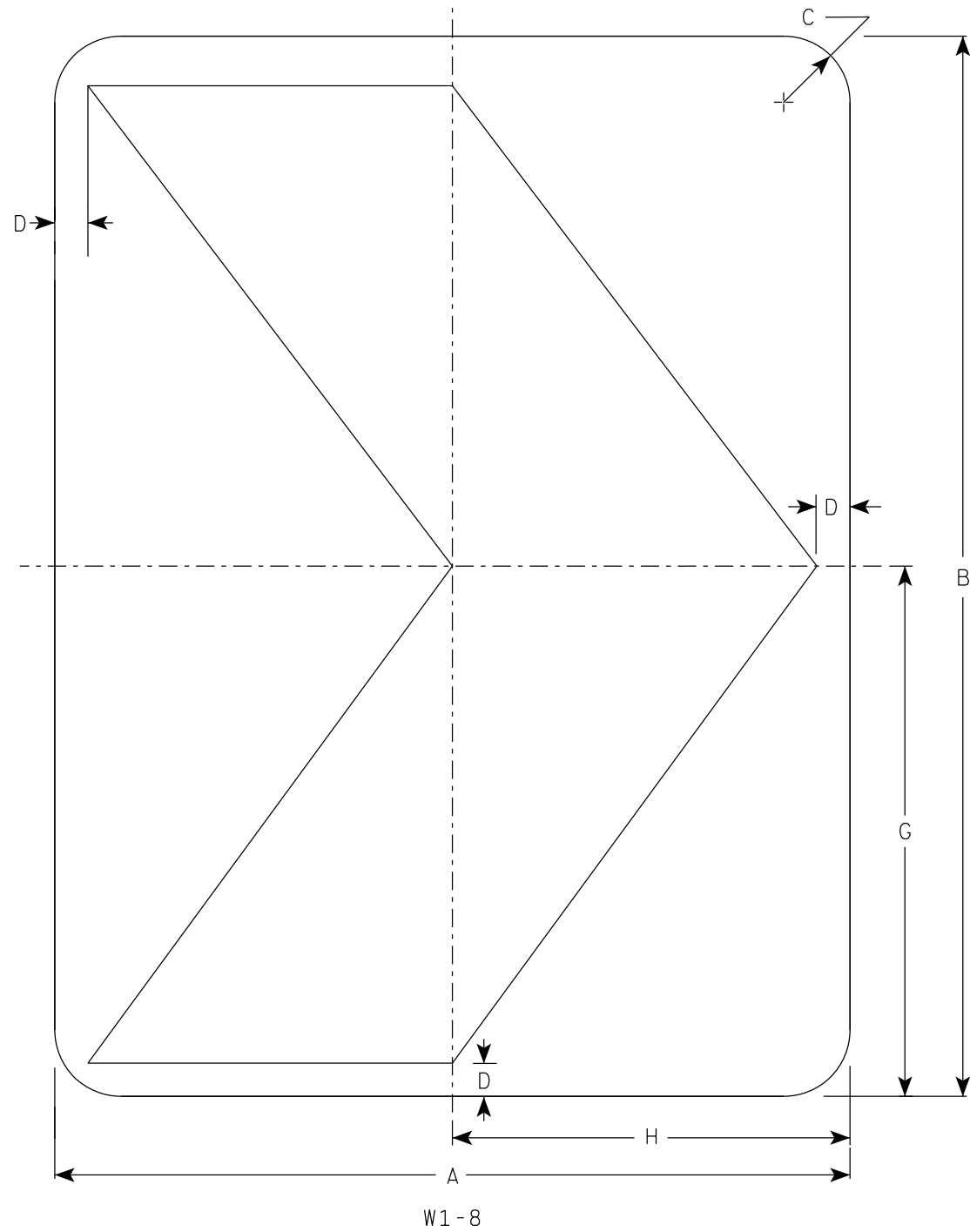
STANDARD SIGN
W1-2

WISCONSIN DEPT OF TRANSPORTATION

APPROVED *Matthew R. Rauch*
for State Traffic Engineer

DATE 3/23/2023 PLATE NO. W1-2.11

7



NOTES

- 1. Sign is Type II - Type F Reflective
- 2. Color:
 - Background - Yellow
 - Message - Black

7

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	12	18	1 1/2	1/2			9	6																			1.5
2S	18	24	1 1/2	3/4			12	9																			3.0
2M	18	24	1 1/2	3/4			12	9																			3.0
3	24	30	1 1/2	1			15	12																			5.0
4	30	36	1 7/8	1 1/4			18	15																			7.5
5	36	48	1 7/8	1 1/2			24	18																			12.0

STANDARD SIGN

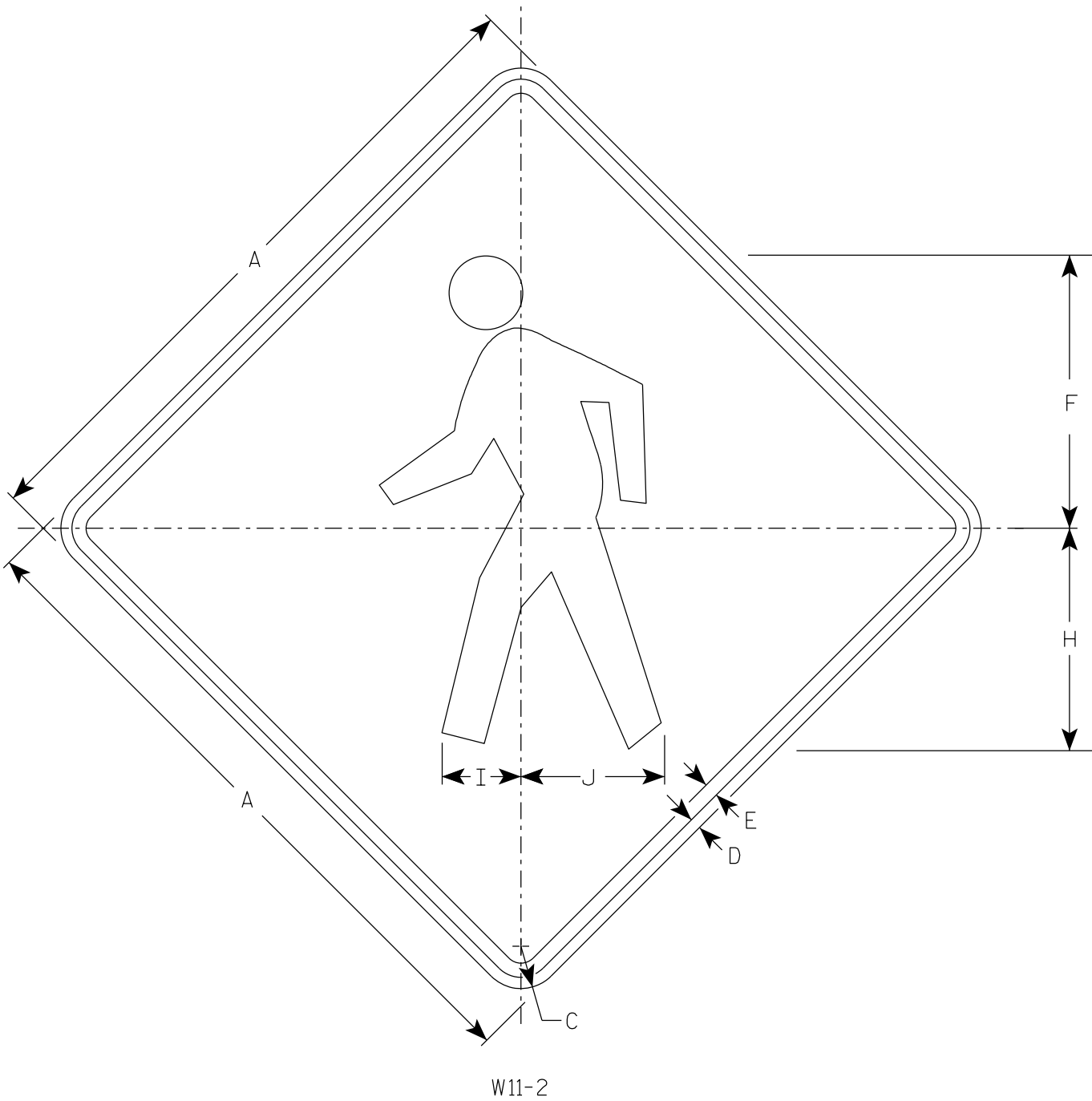
W1-8

WISCONSIN DEPT OF TRANSPORTATION

APPROVED *Matthew R. Rauch*
for State Traffic Engineer

DATE 5/11/2023 PLATE NO. W1-8.7

7



NOTES

- 1. Sign is Type II - Type F Reflective
- 2. Color:
Background - Yellow
Message - Black

7

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	24		1 1/2	3/8	1/2	9 3/4		7 7/8	2 7/8	5 1/8																	4.0
2S	30		1 7/8	1/2	5/8	12 1/8		9 7/8	3 1/2	6 3/8																	6.25
2M	36		2 1/4	5/8	3/4	14 1/2		11 7/8	4 1/4	7 5/8																	9.0
3	36		2 1/4	5/8	3/4	14 1/2		11 7/8	4 1/4	7 5/8																	9.0
4	48		3	3/4	1	19 3/8		15 3/4	5 5/8	10 1/4																	16.0
5																											

STANDARD SIGN
W11-2

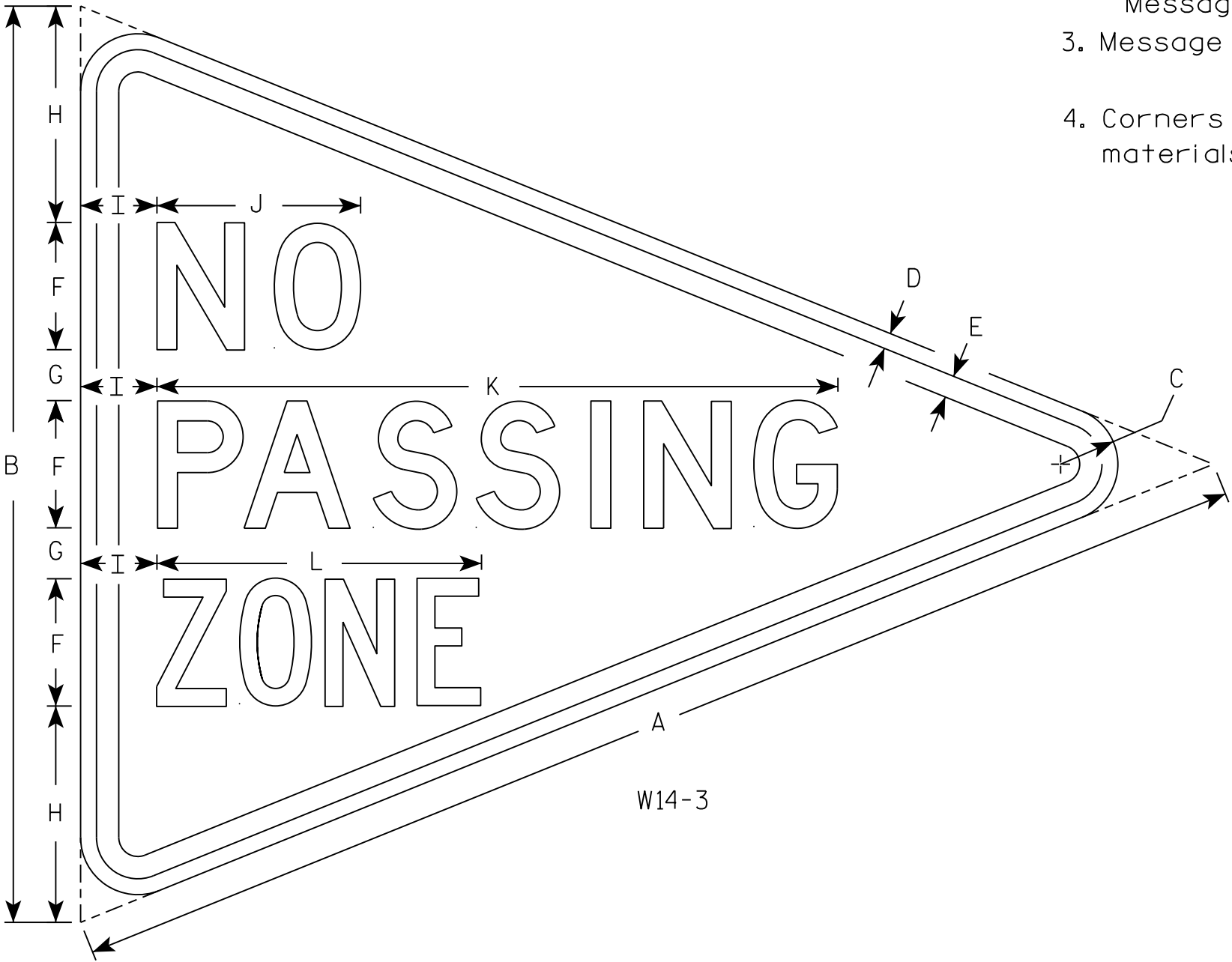
WISCONSIN DEPT OF TRANSPORTATION

APPROVED *Matthew R. Rauch*
for State Traffic Engineer

DATE 6/15/2023 PLATE NO. W11-2.9

NOTES

- 1. Sign is Type II - Type F Reflective
- 2. Color:
Background - Yellow
Message - Black
- 3. Message Series - Lines 1 and 2 are Series D.
Line 3 is series C.
- 4. Corners and borders shall be rounded on all base materials for this sign.



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	36	2 1/4	5/8	7/8	5	2	8 1/2	3	8	26 3/4	12 3/4															5.56
2M																											
3																											
4																											
5																											

STANDARD SIGN
W14-3

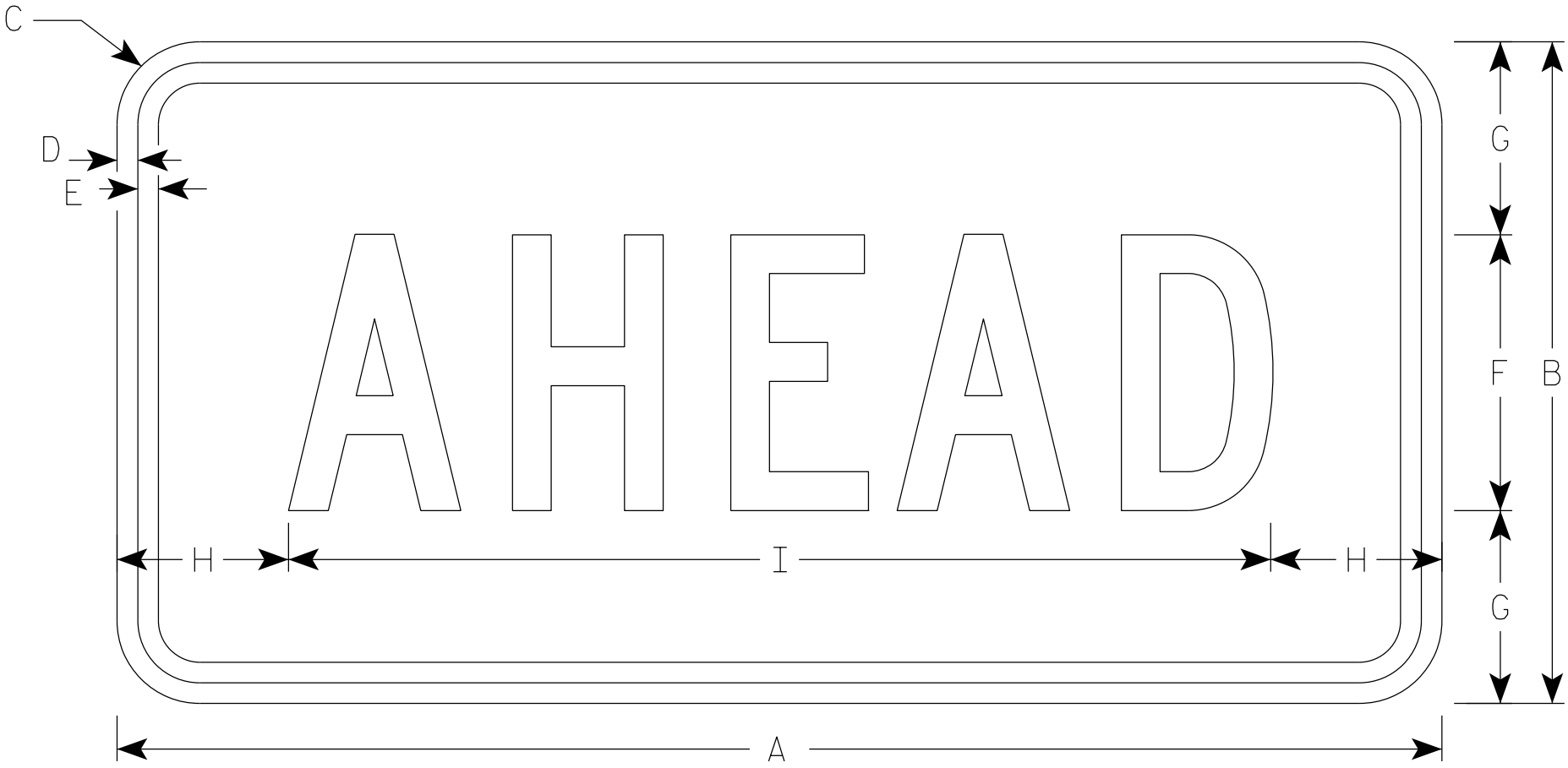
WISCONSIN DEPT OF TRANSPORTATION

APPROVED *Matthew R. Rauch*
for State Traffic Engineer

DATE 3/21/17 PLATE NO. W14-3.10

NOTES

- 1. Sign is Type II - Type F Reflective
- 2. Color:
Background - Yellow
Message - Black
- 3. Message Series - C



W16-9P

- * For 36" x 36" Warning Signs, use 30" x 18" W16-9P signs.
- * For 48" x 48" Warning Signs, use 48" x 24" W16-9P signs.

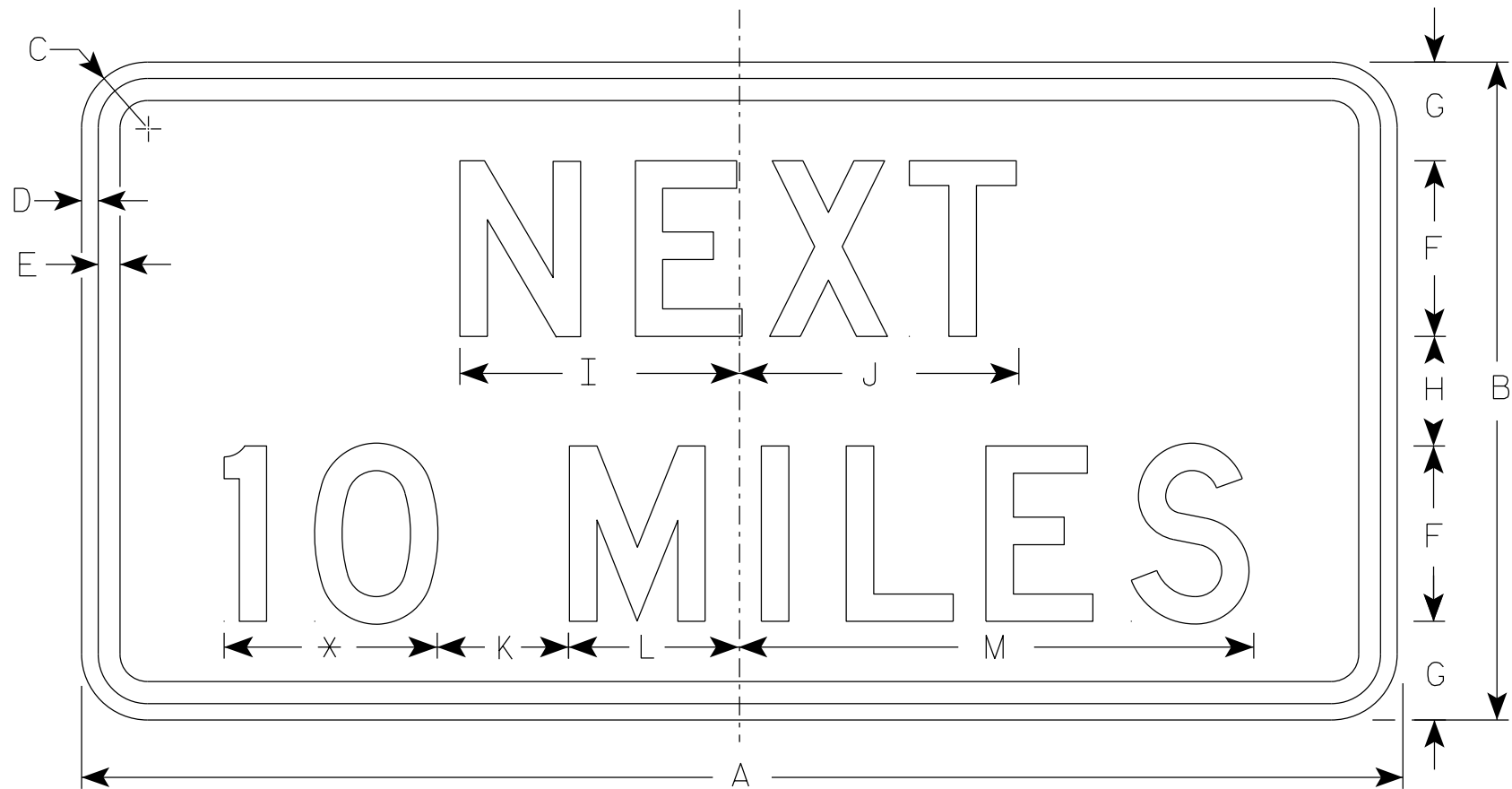
SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2S	24	12	1 1/2	3/8	3/8	5	3 1/2	3 1/8	17 3/4																		2.0
2M	30	18	1 1/2	3/8	1/2	7	5 1/2	2 3/4	24 1/2																		3.75
3	30	18	1 1/2	3/8	1/2	7	3 1/2	2 3/4	24 1/2																		3.75
4	48	24	1 7/8	1/2	5/8	10	7	6 1/8	35 3/4																		8.0
5																											

STANDARD SIGN
W16-9P

WISCONSIN DEPT OF TRANSPORTATION

APPROVED *Matthew R. Rauch*
for State Traffic Engineer

DATE 1/9/2024 PLATE NO. W16-9P.9



W057-51

* See note 5

NOTES

1. Sign is Type II - Type F Reflective
2. Color:
Background - Orange
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. Round distance to the nearest whole Mile and substitute appropriate numerals and optically adjust spacing to achieve proper balance.

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	5	2 3/4	2 1/2	7 7/8	8	5	4 1/8	15 3/8														4.5
2S	48	24	1 7/8	1/2	5/8	6	4	4	10	10 1/8	6	5 5/8	19														8.0
2M	48	24	1 7/8	1/2	5/8	6	4	4	10	10 1/8	6	5 5/8	19														8.0
3	48	24	1 7/8	1/2	5/8	6	4	4	10	10 1/8	6	5 5/8	19														8.0
4	48	24	1 7/8	1/2	5/8	6	4	4	10	10 1/8	6	5 5/8	19														8.0
5	48	24	1 7/8	1/2	5/8	6	4	4	10	10 1/8	6	5 5/8	19														8.0

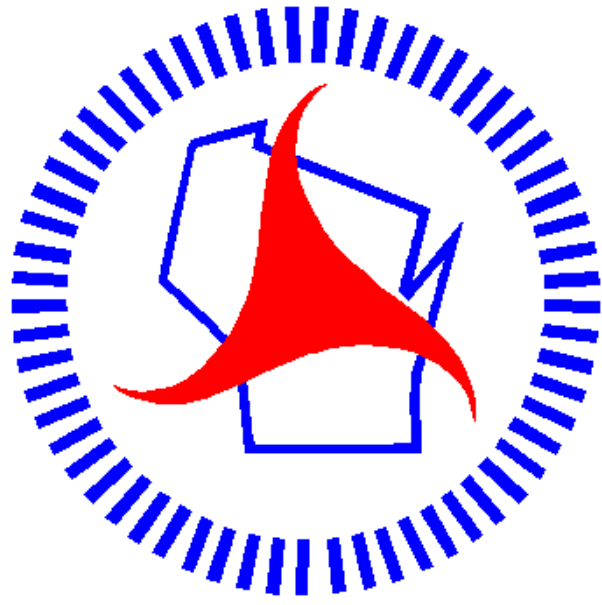
STANDARD SIGN
W057-51

WISCONSIN DEPT OF TRANSPORTATION

APPROVED
Matthew R. Rauch
for State Traffic Engineer

DATE 2/1/2024 PLATE NO. W057-51.4

Notes



Wisconsin Department of Transportation

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