WKE

Feb 08, 2022

PROJECT ID: 3834-06-70

WITH: N/A

COUNTY: KENOSHA

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 and Profile
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 = 184

STATE PROJECT	FEDERAL PROJECT	
	PROJECT	CONTRACT
3834-06-70	WISC 2022202	1

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

PLAN OF PROPOSED IMPROVEMENT

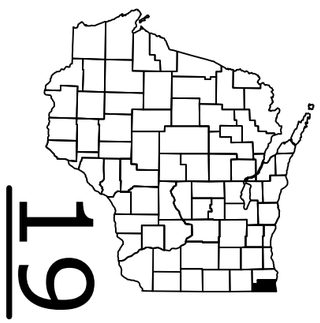
BURLINGTON ROAD

RACINE CO LINE - IH 94 W FRONTAGE RD

STH 142

KENOSHA COUNTY

STATE PROJECT NUMBER
3834-06-70

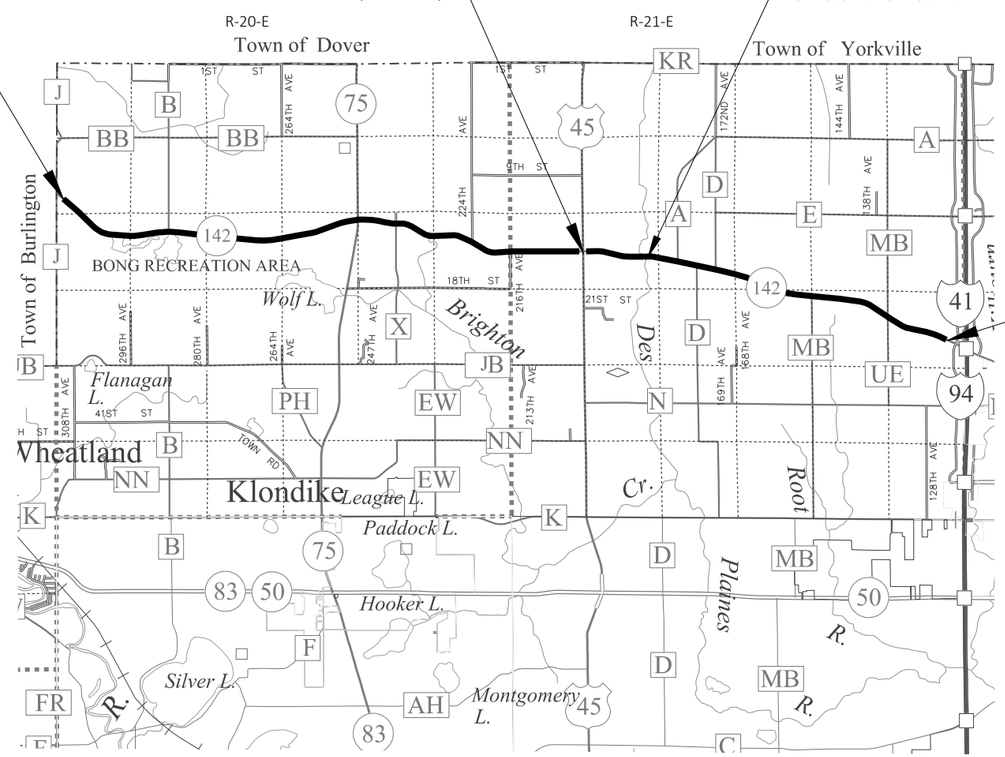


N

EXCEPTION TO NET C/L LENGTH
STA 471+04.85 - 473+49.64 (USH 45)

STRUCTURE B-30-654
OVER DES PLAINES RIVER
STA 516+41 - STA 517+17

BEGIN PROJECT 3834-06-70
STA 92+18.17
Y =155,729.84
X =531,329.84



END PROJECT
STA 715+97.28

DESIGN DESIGNATION

A.A.D.T.	(2021)	=	4,500
A.A.D.T.	(2041)	=	5,200
D.H.V.		=	577
D.D.		=	60/40
T.		=	18.2%
DESIGN SPEED		=	55 M.P.H
ESALS		=	1,700,000

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

LAYOUT

SCALE 0 — 2 MI

TOTAL NET LENGTH OF CENTERLINE = 11.767 MI

HORIZONTAL POSITIONS SHOWN ON THIS PLAN ARE WISCONSIN COORDINATE REFERENCE SYSTEM (WISCRS), KENOSHA COUNTY, NAD83 (2011), IN U.S. SURVEY FEET. ELEVATIONS SHOWN ON THIS PLAN ARE REFERENCED TO THE NORTH AMERICAN VERTICAL DATUM NAVD88 (2012)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

PREPARED BY

Surveyor	N/A
Designer	DIEGO SILVA, P.E.
Project Manager	FRANK PRITZLAFF, P.E.
Regional Examiner	
Regional Supervisor	MANOJOY NAG, P.E.

APPROVED FOR THE DEPARTMENT

DATE: 07/30/2020 *Frank J. Pritzlaff* (Signature)

E

STANDARD ABBREVIATIONS

AP	ACCESS POINT
AC	ACRE
AGG	AGGREGATE
AADT	ANNUAL AVERAGE DAILY TRAFFIC
ASPH	ASPHALTIC
AVG	AVERAGE
B/L	BASE LINE
C/L	CENTER LINE
CE	COMMERCIAL ENTRANCE
CONC	CONCRETE
CO	COUNTY
CTH	COUNTY TRUNK HIGHWAY
CABC	CRUSHED AGGREGATE BASE COURSE
CY	CUBIC YARD
C & G	CURB AND GUTTER
DHV	DESIGN HOUR VOLUME
DD	DIRECTIONAL DISTRIBUTION
DWY	DRIVEWAY
E	EAST
X	EAST GRID COORDINATE
EB	EASTBOUND
ELEV	ELEVATION
ESALS	EQUIVALENT SINGLE AXLE LOADS
EXC	EXCAVATION
EBS	EXCAVATION BELOW SUBGRADE
EXIST	EXISTING
FERT	FERTILIZE
FE	FIELD ENTRANCE
FAB	FLASHING ARROW BOARD
FT	FOOT
HES	HIGH EARLY STRENGTH
CWT	HUNDREDWEIGHT
IN DIA	INCH DIAMETER
IP	IRON PIPE OR PIN
LT	LEFT
LF	LINEAR FOOT
LS	LUMP SUM
MP	MARKER POST
M/L	MATCH LINE
MB	MESSAGE BOARD
NC	NORMAL CROWN
N	NORTH
Y	NORTH GRID COORDINATE
NB	NORTHBOUND
NO	NUMBER
PAVT	PAVEMENT
PT	POINT
PCC	POINT OF COMPOUND CURVE
PC	POINT OF CURVATURE
PI	POINT OF INTERSECTION
PRC	POINT OF REVERSE CURVATURE
PT	POINT OF TANGENCY
PCC	PORTLAND CEMENT CONCRETE
LB	POUND
PE	PRIVATE ENTRANCE
PROJ	PROJECT
R	RADIUS
R/L	REFERENCE LINE
REQD	REQUIRED
RT	RIGHT
RD	ROAD
RDWY	ROADWAY
SEC	SECTION
SHLDR	SHOULDER
S	SOUTH
SB	SOUTHBOUND
SP	SPECIAL
SPECS	SPECIFICATIONS
SF	SQUARE FEET
SY	SQUARE YARD
STD	STANDARD
SDD	STANDARD DETAIL DRAWINGS
STH	STATE TRUNK HIGHWAYS
STA	STATION
SSD	STOPPING SIGHT DISTANCE
STR	STRUCTURE OR STRUCTURAL
SE	SUPERELEVATION
SURF	SURFACE
S/L	SURVEY LINE
TEMP	TEMPORARY
TPM	TEMPORARY PAVEMENT MARKING
MBM	THOUSAND FEET BOARD MEASURE
T	TON
TC	TOP OF CURB
T OR TN	TOWN
T	TRUCKS (PERCENT OF)
TYP	TYPICAL
UG	UNDERGROUND
USH	UNITED STATES HIGHWAY
VAR	VARIABLE
V	VELOCITY OR DESIGN SPEED
VERT	VERTICAL
VOL	VOLUME
W	WEST
WB	WESTBOUND

GENERAL NOTES

DO NOT REMOVE ANY TREES OR SHRUBS WITHOUT APPROVAL OF THE ENGINEER.

THE LOCATIONS OF EXISTING AND PROPOSED UTILITY INSTALLATIONS AS SHOWN ON THE PLANS ARE APPROXIMATE. THERE MAY BE OTHER UTILITY INSTALLATIONS WITHIN THE PROJECT LOCATION THAT ARE NOT SHOWN. COORDINATE CONSTRUCTION ACTIVITIES WITH A CALL TO DIGGERS HOTLINE AND/OR A CALL TO THE UTILITIES THAT HAVE INSTALLATIONS WITHIN THE PROJECT AREA. NOT ALL UTILITIES ARE MEMBERS OF DIGGER'S HOTLINE.

SAWCUT EXISTING ASPHALT PAVEMENT AT THE MATCHLINE AS INDICATED ON THE PLAN OR AS DIRECTED BY THE ENGINEER.

DISTURBED AREAS WITHIN THE RIGHT OF WAY ARE TO BE TOPSOILED, FERTILIZED, SEEDED, AND MULCHED AS DIRECTED BY THE ENGINEER.

EXISTING DRIVEWAYS AND FIELD ENTRANCES SHALL BE RESTORED IN KIND AS DIRECTED BY THE ENGINEER IN THE FIELD AND AT THE LOCATION DETERMINED BY THE ENGINEER.

CONSTRUCTION LIMITS ON SIDE ROADS AND PRIVATE ENTRANCES SHALL BE DETERMINED BY THE ENGINEER AND SHALL BE RESTORED IN KIND.

ALL SIGN LOCATIONS SHALL BE REVIEWED BY THE ENGINEER PRIOR TO INSTALLATION.

NO MILLING ON STH 142 FROM STATION 471+05 TO STA 473+50.

CONTACT THE PROJECT ENGINEER, THE COUNTY SURVEYOR, AND SEWRPC AT LEAST TWO WEEKS BEFORE WORKING NEAR ANY SECTION CORNER MONUMENT.

CONTRACTOR MUST CONTACT ELIAS WILSON RICHARD BONG STATE RECREATION AREA SUPERINTENDENT AT 262-224-1871 OR ELIAS.WILSON@WISCONSIN.GOV AT LEAST TWO WEEKS BEFORE WORKING ON RICHARD BONG STATE RECREATION AREA ENTRANCE AND DRIVEWAYS.

CONSTRUCT PAVEMENT CONSISTENT WITH THE PLAN TYPICAL SECTIONS. LOCATE LONGITUDINAL JOINTS IN ASPHALT PAVEMENT OUTSIDE OF DRIVING, TURNING, BIKE, OR PARKING LANE UNLESS DIRECTED OTHERWISE BY THE ENGINEER.

TRAFFIC CONTROL ITEMS AS SHOWN ON THE PLANS ARE AT SUGGESTED LOCATIONS, EXACT LOCATIONS WILL BE APPROVED BY THE ENGINEER IN THE FIELD.

ALL LAYOUT DATA IS REFERENCED TO THE C/L UNLESS OTHERWISE NOTED.

HMA PAVEMENT SHALL BE CONSTRUCTED WITH THE FOLLOWING LAYERS AND GRADATION:

HMA PAVEMENT

LOCATION	HMA	UPPER LAYER
STH 142 - MAINLINE AND SIDE ROADS	4 MT 58-28 S	2"
STH 142 - BYPASS LANES AND RIGHT TURN LANES	4 MT 58-28 S	2"

ORDER OF SECTION 2 SHEETS

GENERAL NOTES
PROJECT OVERVIEW
TYPICAL SECTIONS
CONSTRUCTION DETAILS
EXISTING/PERMANENT SIGNING
PAVEMENT MARKING
TRAFFIC CONTROL
DETOUR

2

2

UTILITY CONTACTS

AT&T WISCONSIN
MIKE VANBOVEN
AT&T WISCONSIN-COMMUNICATION LINE
411 7TH STREET
RACINE, WI 53403
PHONE: 262-636-0514
EMAIL: MV3658@ATT.COM

ATC MANAGEMENT, INC
CHRIS DAILEY
ATC MANAGEMENT, INC-ELECTRICITY
PO BOX 47
WAUKESHA, WI 53187-0047
PHONE: 262-506-6884
EMAIL: CDAILEY@ATCLLC.COM

KENOSHA WATER UTILITY
STEVE THUSIUS
KENOSHA WATER UTILITY - SEWER
4401 GREEN BAY ROAD
KENOSHA, WI 53144
PHONE: 262-653-4315 (OFFICE)
PHONE: 262-620-7811 (CELL)
EMAIL: STHUSIUS@KENOSHA.ORG

KENOSHA WATER UTILITY
STEVE THUSIUS
KENOSHA WATER UTILITY - WATER
4401 GREEN BAY ROAD
KENOSHA, WI 53144
PHONE: 262-653-4315 (OFFICE)
PHONE: 262-620-7811 (CELL)
EMAIL: STHUSIUS@KENOSHA.ORG

MIDWEST FIBER NETWORKS, LLC
CORY SCHMUKI
MIDWEST FIBER NETWORKS - COMMUNICATIONS LINE
6070 N FLINT ROAD
GLENDALE, WI 53209
PHONE: 414-459-3561 (OFFICE)
PHONE: 414-349-2764 (CELL)
EMAIL: CSCHMUKI@MIDWESTFIBERNETWORKS.COM

NORTH SHORE GAS COMPANY
JAY HAMMER
NORTH SHORE GAS COMPANY - GAS/PETROLEUM
3001 GRAND AVENUE
WAUKEGAN, IL 60085
PHONE: 847-263-4678 (OFFICE)
PHONE: 224-338-9093 (CELL)
EMAIL: JAY.HAMMER@NORTHSHOREGASDELIVERY.COM

SPECTRUM
GERALD SCHULTZ
SPECTRUM - COMMUNICATION LINE
1320 N DR MARTIN LUTHER KING JR DR
MILWAUKEE, WI 53212
PHONE: 414-232-7178 (CELL)
EMAIL: GERALD.SCHULTZ@CHARTER.COM

TDS TELECOM
ERIK BORGEN
TDS TELECOM - COMMUNICATION LINE
525 JUNCTION ROAD
MADISON, WI 53717
PHONE: 608-664-4438 (OFFICE)
PHONE: 608-556-7110 (CELL)
EMAIL: ERIK.BORGEN@TDSTELECOM.COM

WE ENERGIES
ADAM PSICIHULIS
WE ENERGIES- ELECTRIC
700 SOUTH KANE STREET
BURLINGTON WI, 53105
PHONE: 262-763-1011 (OFFICE)
PHONE: 262-490-1259 (CELL)
WE ENERGIES ELECTRIC DISPATCH 1-800-662-4797

WE ENERGIES
SCOTT HOLSTEIN
WE ENERGIES- GAS
700 SOUTH KANE STREET
BURLINGTON WI, 53105
PHONE: 262-763-1084 (OFFICE)
PHONE: 262-949-0490 (CELL)
EMAIL: SCOTT.HOLSTEIN@WE-ENERGIES.COM
WE ENERGIES GAS DISPATCH 1-800-261-5325

WEST SHORE PIPE LINE COMPANY
ARIC AUFDERMAUER
WEST SHORE GAS COMPANY - PETROLEUM
PHONE: 414-391-8102 (OFFICE)
PHONE: PHONE: 414-391-8102 (CELL)
EMAIL: AAUFDERMAUER@BUCKEYE.COM

WINDSTREAM KDL, LLC
MARY FISHER
WINDSTREAM KDL - COMMUNICATION LINE
13935 BISHOPS DRIVE
BROOKFIELD, WI 53005
PHONE: 262-792-7938
CELL: 414-313-9032
EMAIL: MARY.B.FISHER@WINDSTREAM.COM

WISCONSIN DEPARTMENT OF TRANSPORTATION
WISDOT ELECTRICAL FIELD UNIT
635 SOUTH 60TH STREET
WEST ALLIS, WI 53214
PHONE: 414-266-1170

WISCONSIN DEPARTMENT OF TRANSPORTATION
DAVID BRANTNER
WISDOT SIGNAL OPERATIONS
141 NW BARSTOW STREET
PO BOX 798
WAUKESHA, WI 53187
PHONE: 262-548-8736
EMAIL: DAVID.BRANTNER@DOT.WI.GOV

OTHER CONTACTS

WISDOT
FRANK PRITZLAFF
WISDOT PROJECT MANAGER
141 NW BARSTOW ST
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WAUKESHA, WI 53187
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EMAIL: FRANK.PRITZLAFF@DOT.WI.GOV

TOWN OF BRIGHTON
SUSAN CRANE
TOWN OF BRIGHTON CHAIRWOMAN
25000 BURLINGTON ROAD
KANSASVILLE, WI 53139
PHONE: 262-537-2920

KENOSHA COUNTY
CLEMENT ABONGWA
KENOSHA COUNTY HIGHWAY COMMISSIONER
19600 75TH ST, SUITE 122-1
BRISTOL, WI 53104
PHONE: 262-857-1870
EMAIL: CLEMENT.ABONGWA@KENOSHACOUNTY.ORG

SOUTHEASTERN WISCONSIN REGIONAL PLANNING COMMISSION
ROB MERRY
SEWRPC (KENOSHA COUNTY SURVEYOR)
W239 N1812 ROCKWOOD DRIVE
P.O. BOX 1607
WAUKESHA, WI 53187
PHONE: 262-953-4289
EMAIL: RMERRY@SEWRPC.ORG

WISDNR CONTACT
CRAIG WEBSTER
DNR LIAISON
141 NW BARSTOW ST ROOM 180
WAUKESHA, WI 53188
PHONE: 262-574-2141
EMAIL: CRAIG.WEBSTER@WISCONSIN.GOV

TOWN OF PARIS
JOHN HOLLOWAY
TOWN OF PARIS CHAIRMAN
15404 BURLINGTON ROAD
UNION GROVE, WI 53182
PHONE: 262-331-1151
EMAIL: TOWNOFPARIS@WI.NET

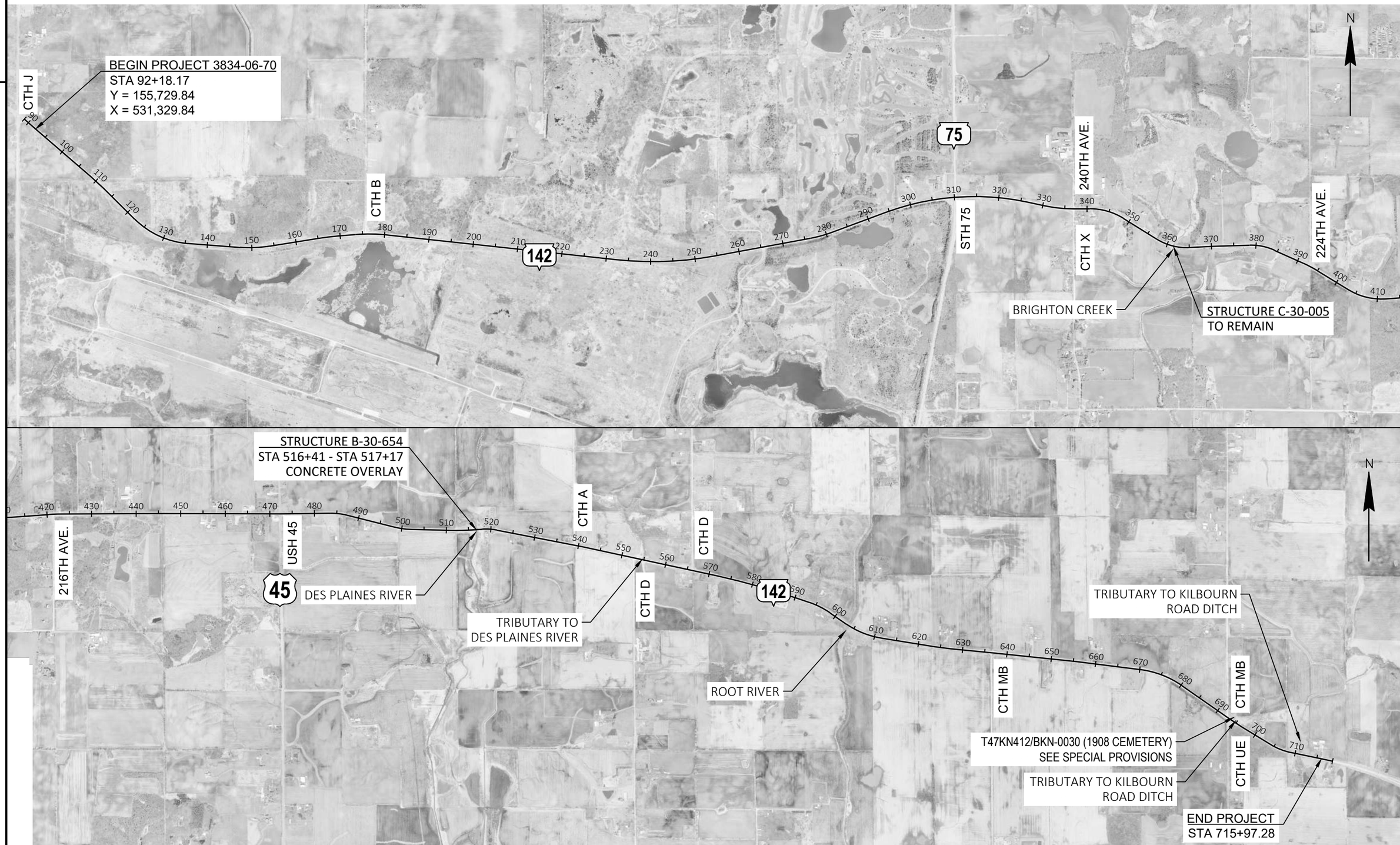
KENOSHA COUNTY SHERIFF
DAVID BETH
KENOSHA COUNTY SHERIFF
1000 55TH STREET
KENOSHA, WI 53140
PHONE: 262-605-5101

RICHARD BONG STATE RECREATION AREA
ELIAS WILSON
RICHARD BONG STATE RECREATION AREA SUPERINTENDENT
26313 BURLINGTON ROAD
KANSASVILLE, WI 53139
PHONE: 262-224-1871
EMAIL: ELIAS.WILSON@WISCONSIN.GOV

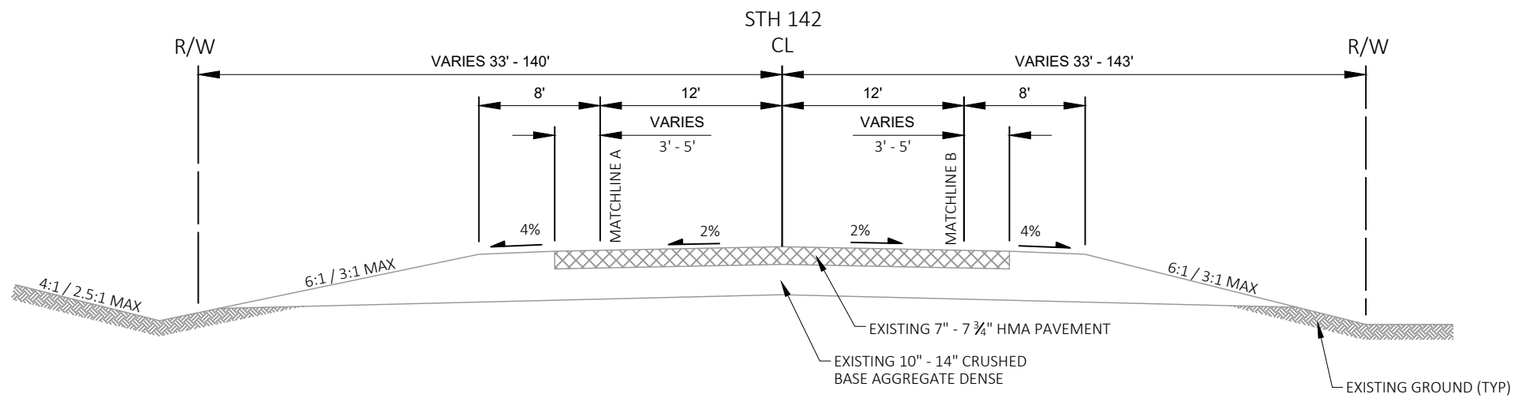
TOWN OF PARIS FIRE AND RESCUE DEPARTMENT
ROLAN IWEN
TOWN OF PARIS FIRE CHIEF
16607 BURLINGTON ROAD
UNION GROVE, WI 53182
PHONE: 262-498-2593
EMAIL: TOWNOFPARIS@WI.NET

KANSASVILLE FIRE AND RESCUE DEPARTMENT
SCOTT REMER
KANSASVILLE FIRE CHIEF
23730 DURAND AVENUE
KANSASVILLE, WI 53139
PHONE: 262-878-3811

DIGGERS HOTLINE
Dial 811 or (800)242-8511
www.DiggersHotline.com

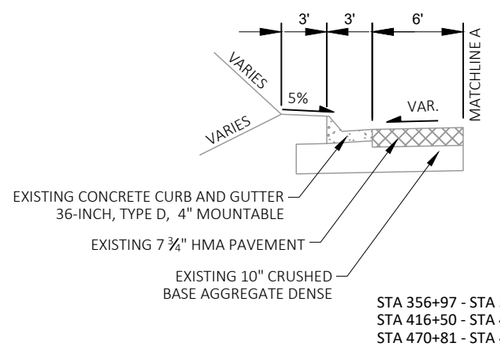


PROJECT NO: 3834-06-70	HWY: STH 142	COUNTY: KENOSHA	PROJECT OVERVIEW	SHEET 4	E

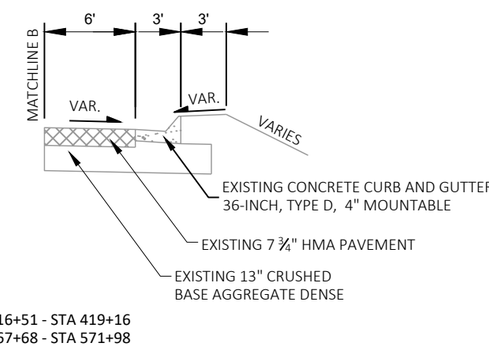


EXISTING TYPICAL SECTION
STH 142

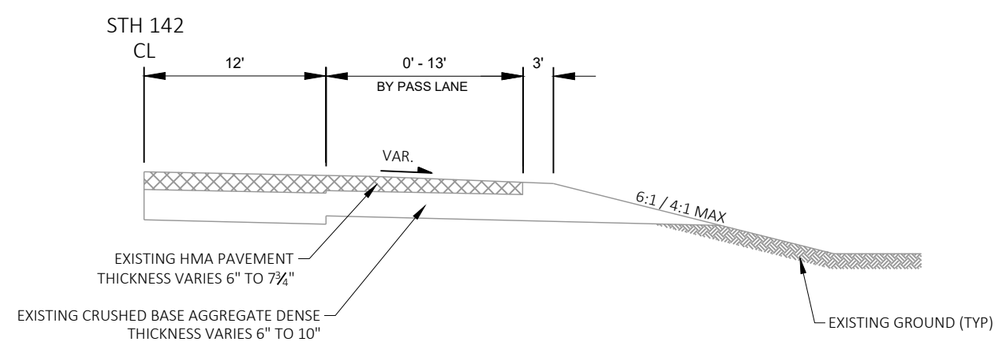
STA 92+18 - 308+41 (5')
STA 308+41 - 416+50
STA 419+16 - 471+04
STA 566+00 - 574+00
STA 589+00 - 614+00



STA 356+97 - STA 359+35
STA 416+50 - STA 419+07
STA 470+81 - STA 471+05

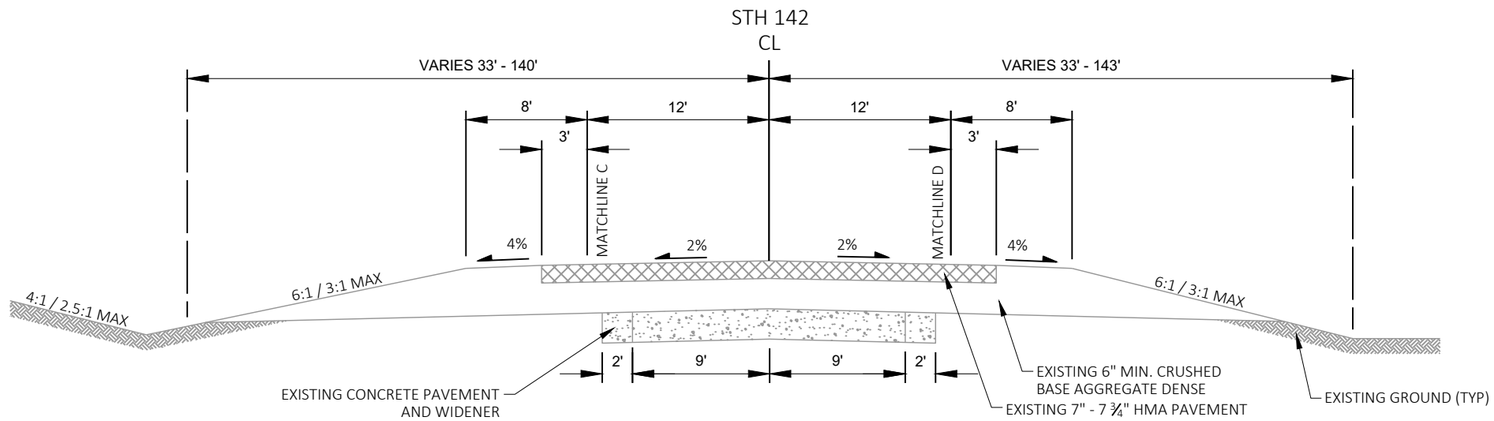


STA 416+51 - STA 419+16
STA 567+68 - STA 571+98



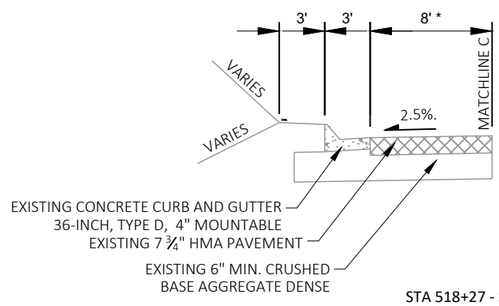
EXISTING BY PASS LANE TYPICAL SECTION
STH 142

CTH B STA 172+43 - 179+75, 13' RT
224TH AVE STA 389+55 - 396+57, 13 RT
216TH AVE STA 419+85 - 424+70, 13' LT
CTH A STA 536+36 - 541+89, 12' RT
176TH AVE STA 549+99 - 555+69, 12' LT
CTH D STA 563+46 - 568+61, 13' RT
CTH MB STA 633+48 - 639+47, 12 LT

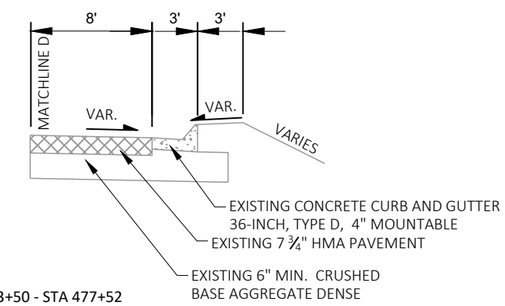


EXISTING TYPICAL SECTION
STH 142

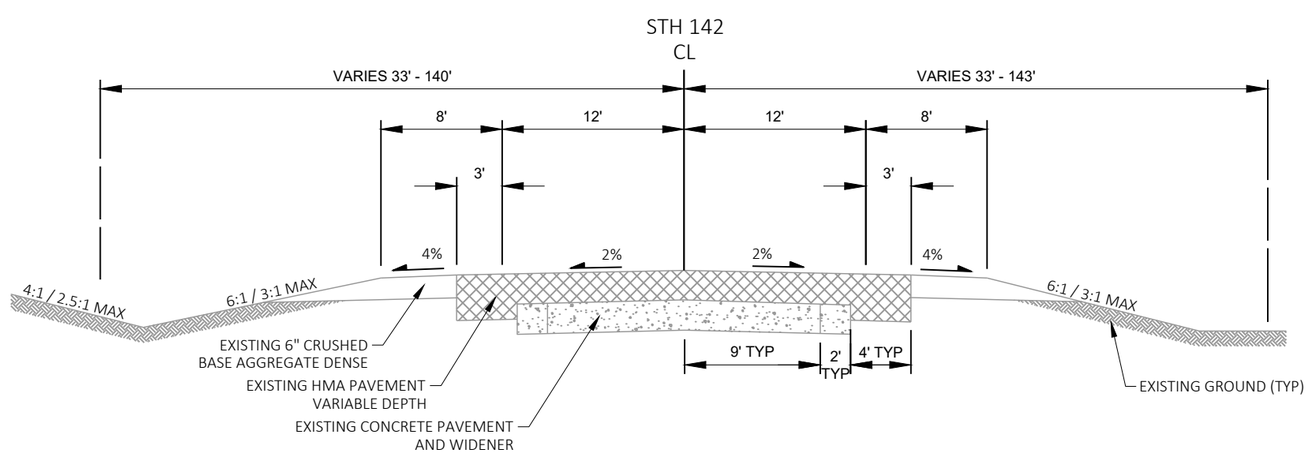
STA 471+50 - 514+00
STA 518+42 - 566+00
STA 574+00 - 589+00
STA 614+00 - 715+97



STA 518+27 - STA 521+00
STA 697+74 - STA 700+52 (6')*



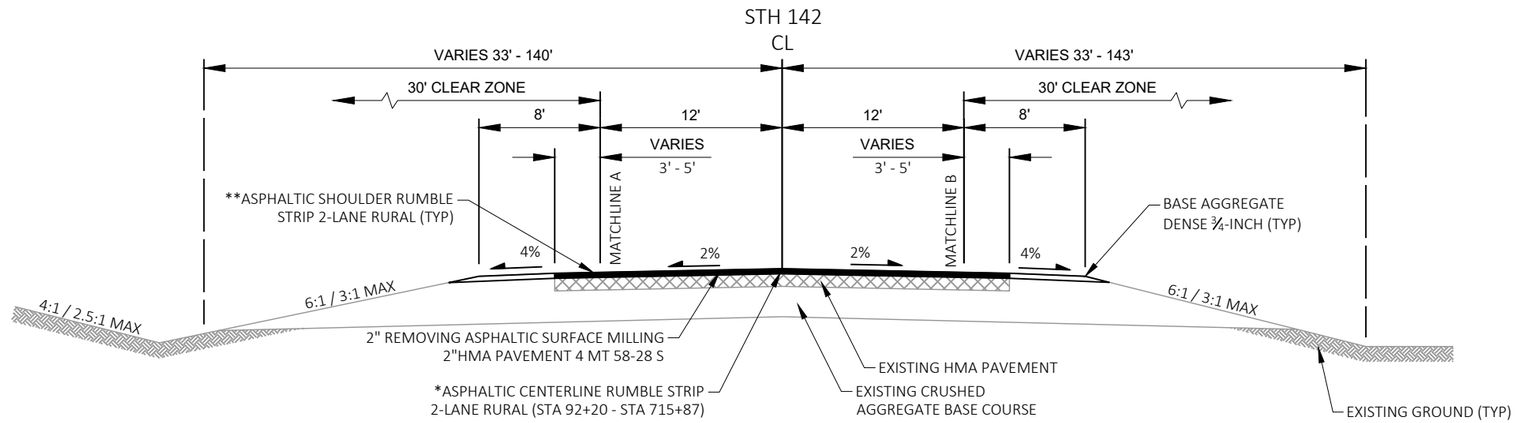
STA 473+50 - STA 477+52



EXISTING TYPICAL SECTION
STH 142

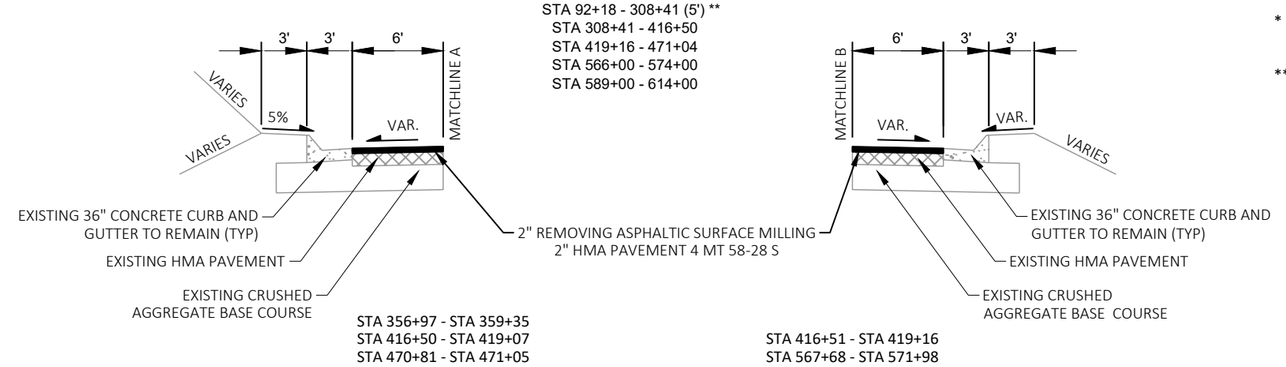
STA 514+00 - 516+41
STA 517+17 - 518+42

PROJECT NO: 3834-06-70	HWY: STH 142	COUNTY: KENOSHA	TYPICAL SECTIONS	SHEET 6	E



FINISHED TYPICAL SECTION
STH 142

STA 92+18 - 308+41 (5') **
STA 308+41 - 416+50
STA 419+16 - 471+04
STA 566+00 - 574+00
STA 589+00 - 614+00

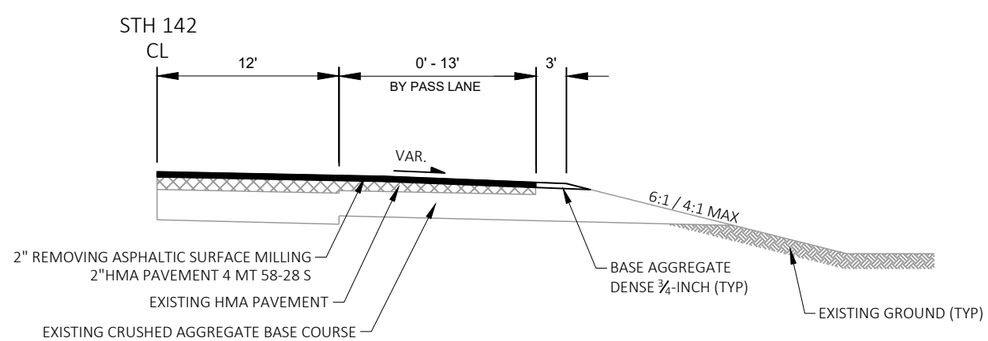


STA 356+97 - STA 359+35
STA 416+50 - STA 419+07
STA 470+81 - STA 471+05

STA 416+51 - STA 419+16
STA 567+68 - STA 571+98

* SEE SDD "2-LANE RURAL CENTERLINE RUMBLE STRIP, MILLING" FOR GROOVE SPACING AND GAP LOCATIONS.

** SEE SDD "2-LANE RURAL SHOULDER RUMBLE STRIP, MILLING" FOR GROOVE SPACING AND GAP LOCATIONS.
STA 92+20 - STA 304+87 RT
STA 92+20 - STA 307+90 LT



FINISHED BY PASS LANE TYPICAL SECTION
STH 142

CTH B STA 172+43 - 179+75, 13' RT
224TH AVE STA 389+55 - 396+57, 13 RT
216TH AVE STA 419+85 - 424+70, 13' LT
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176TH AVE STA 549+99 - 555+69, 12' LT
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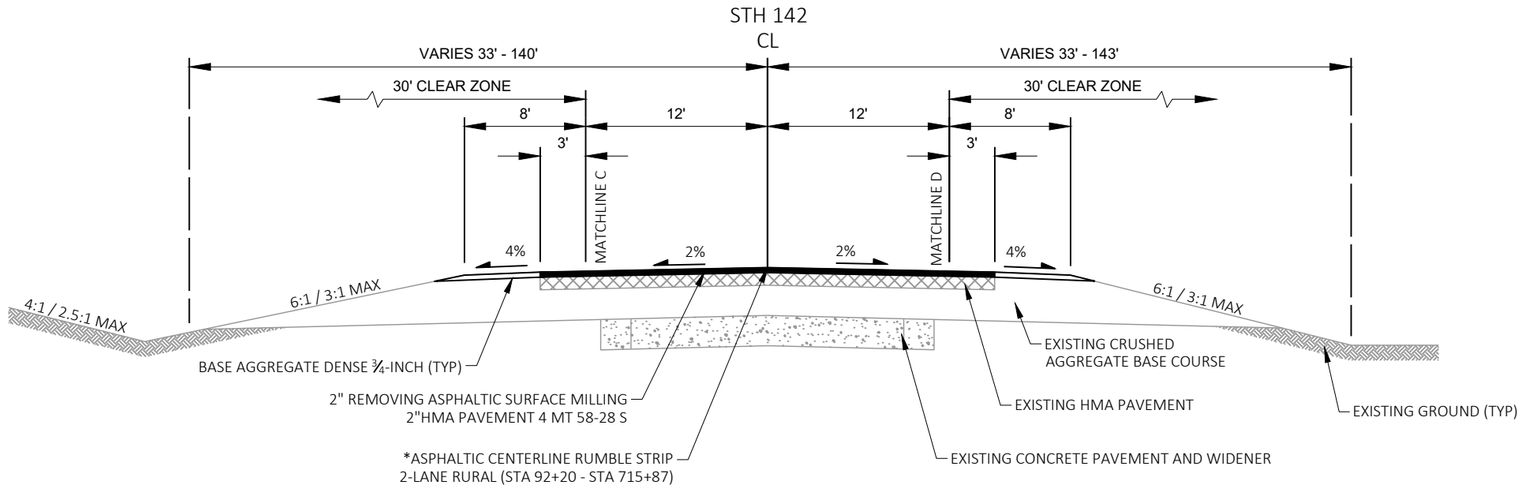
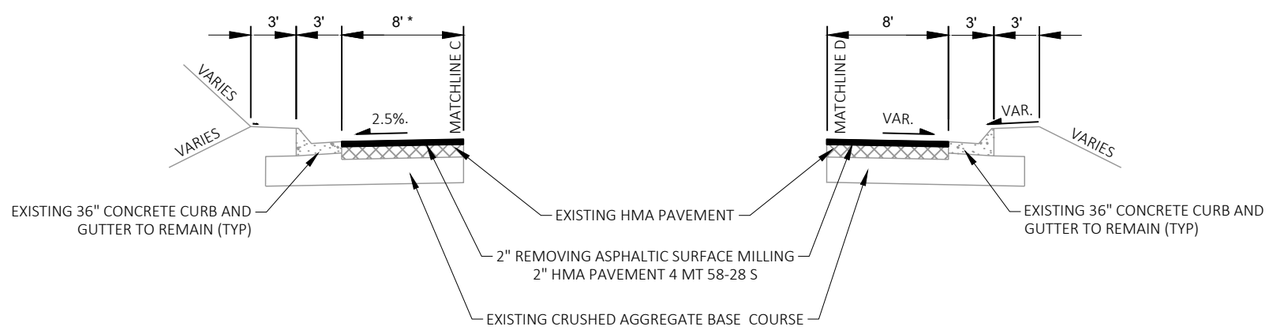
CTH MB STA 633+48 - 639+47, 12 LT



FINISHED TYPICAL SECTION
STH 142

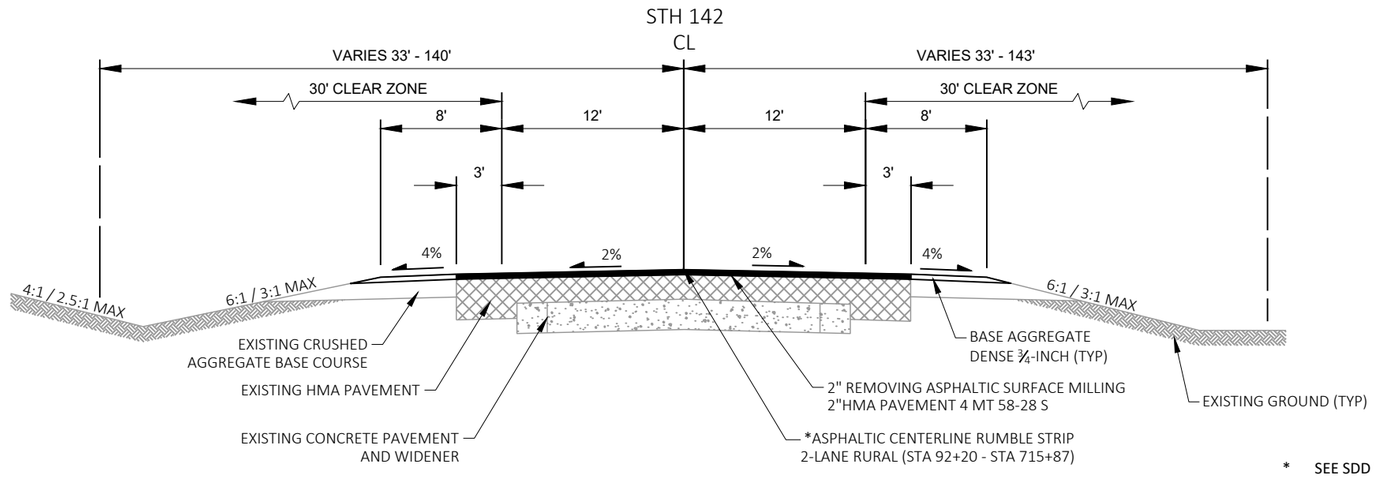
STA 471+50 - 514+00
STA 518+42 - 566+00
STA 574+00 - 589+00
STA 614+00 - 715+97

* SEE SDD "2-LANE RURAL CENTERLINE RUMBLE STRIP, MILLING" FOR GROOVE SPACING AND GAP LOCATIONS.



STA 518+27 - STA 521+00
STA 697+74 - STA 700+52 (6')*

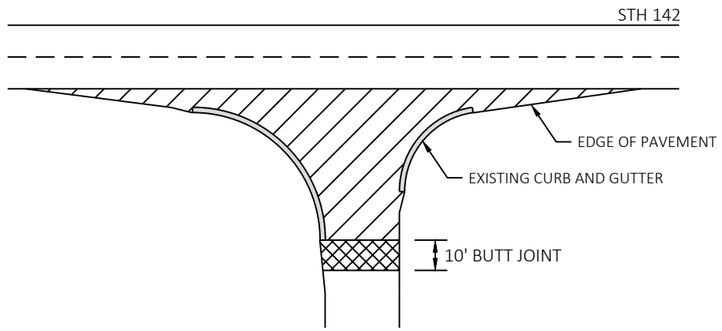
STA 473+50 - STA 477+52



* SEE SDD "2-LANE RURAL CENTERLINE RUMBLE STRIP, MILLING" FOR GROOVE SPACING AND GAP LOCATIONS.

FINISHED TYPICAL SECTION
STH 142

STA 514+00 - 516+41
STA 517+17 - 518+42

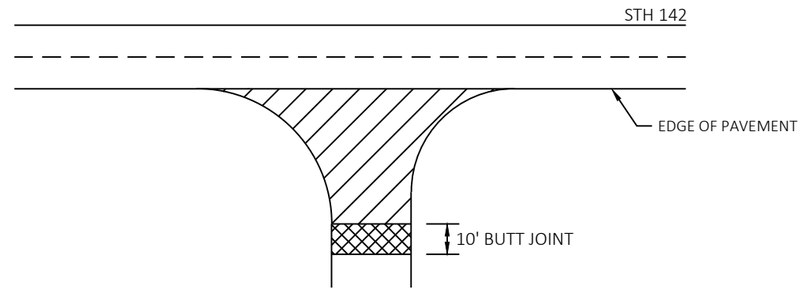


REMOVING ASPHALTIC SURFACE MILLING

REMOVING ASPHALTIC SURFACE BUTT JOINTS
SEE BUTT JOINT DETAIL

SIDE ROADS WITH CURB AND GUTTER

CTH B
STH 75
CTH X
224TH AVE
216TH AVE
CTH A
CTH D
CTH MB
CTH UE

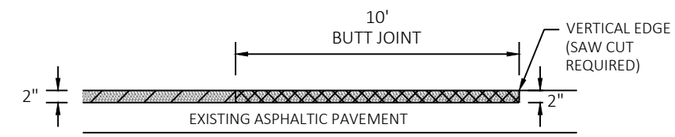


REMOVING ASPHALTIC SURFACE MILLING

REMOVING ASPHALTIC SURFACE BUTT JOINTS
SEE BUTT JOINT DETAIL

SIDE ROADS WITHOUT CURB AND GUTTER

RICHARD BONG STATE PARK



HMA PAVEMENT

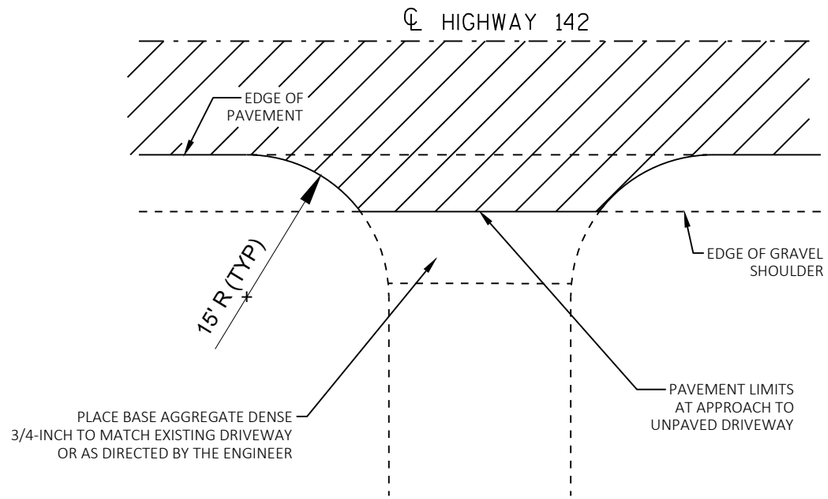
REMOVING ASPHALTIC SURFACE MILLING

REMOVING ASPHALTIC SURFACE BUTT JOINTS

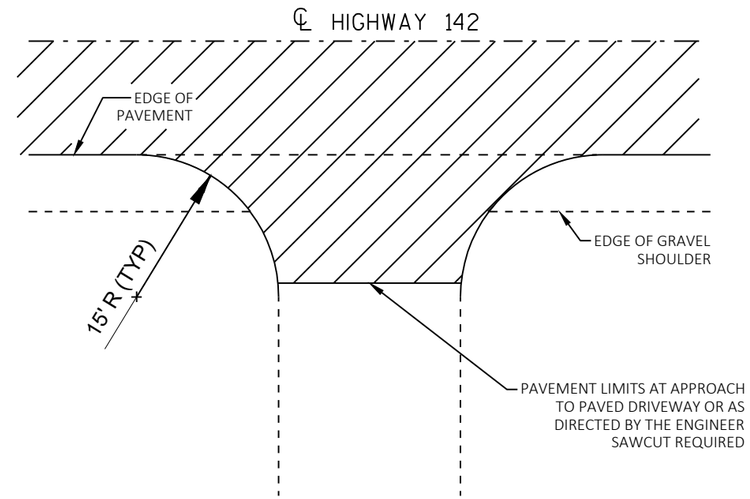
BUTT JOINT MAINLINE AND SIDE ROADS

BUTT JOINT DETAIL FOR ASPHALTIC PAVEMENTS

NOTES:
1. MILL TO THE END OF RADIUS OR EXISTING PAVEMENT JOINT, WHICHEVER IS CLOSER.
2. WHEN MATCHING TO AN UNPAVED SURFACE BUTT JOINT IS NOT REQUIRED.



PLAN VIEW

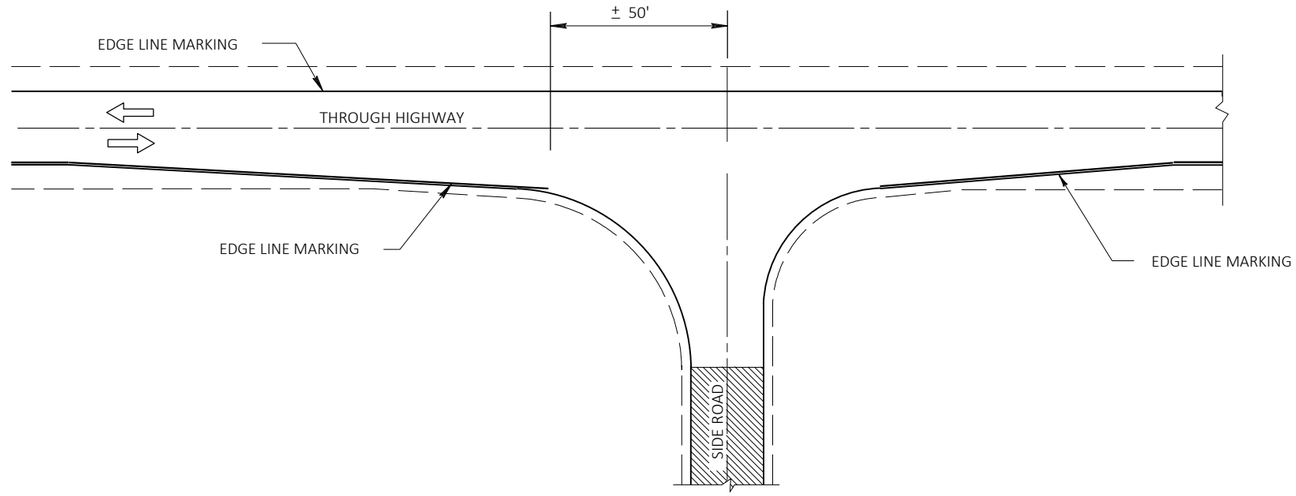


PLAN VIEW

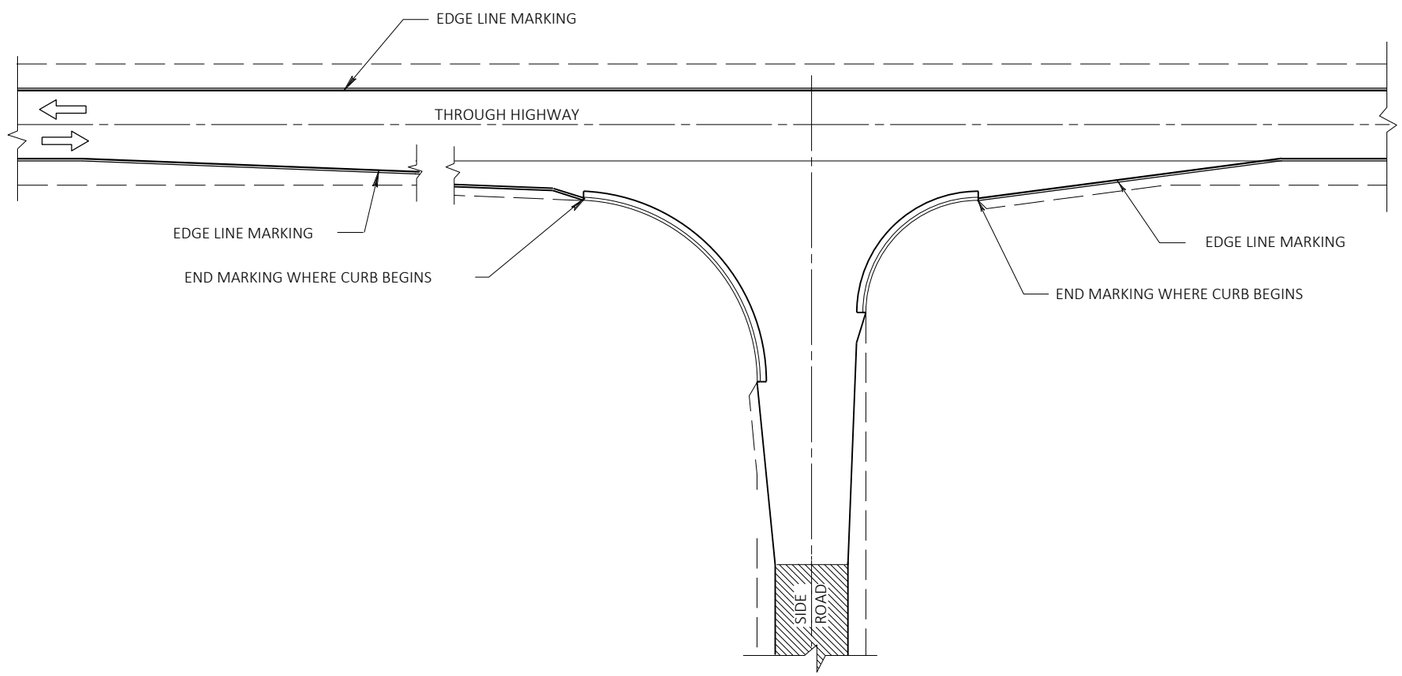
RURAL DRIVEWAY DETAIL RESURFACING LIMITS

NOTE: DRIVEWAY SURFACE TO BE REPLACED IN KIND

HMA PAVEMENT

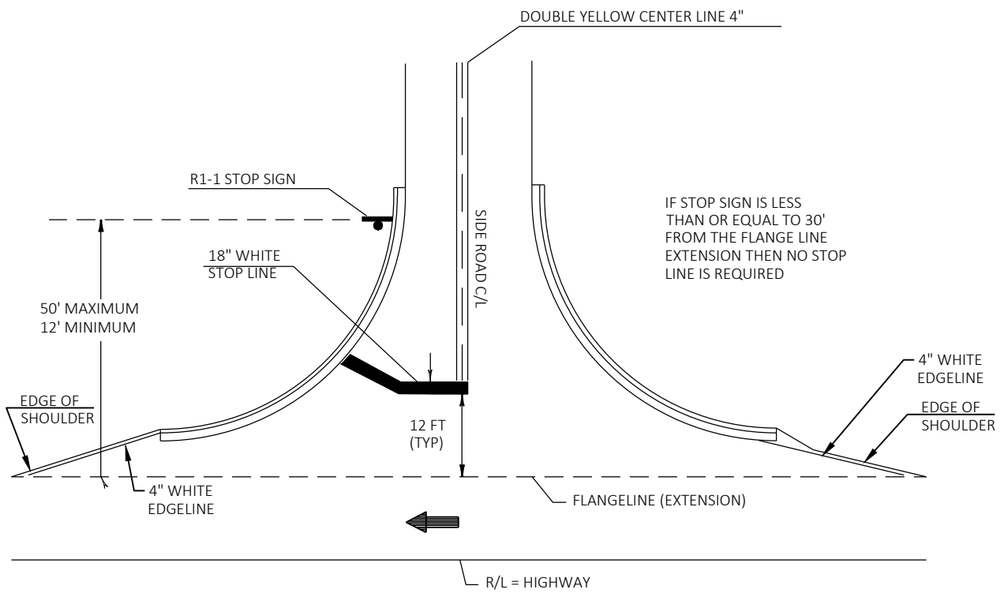


MINOR INTERSECTION WITHOUT CURBS
(TYPICAL MARKING)

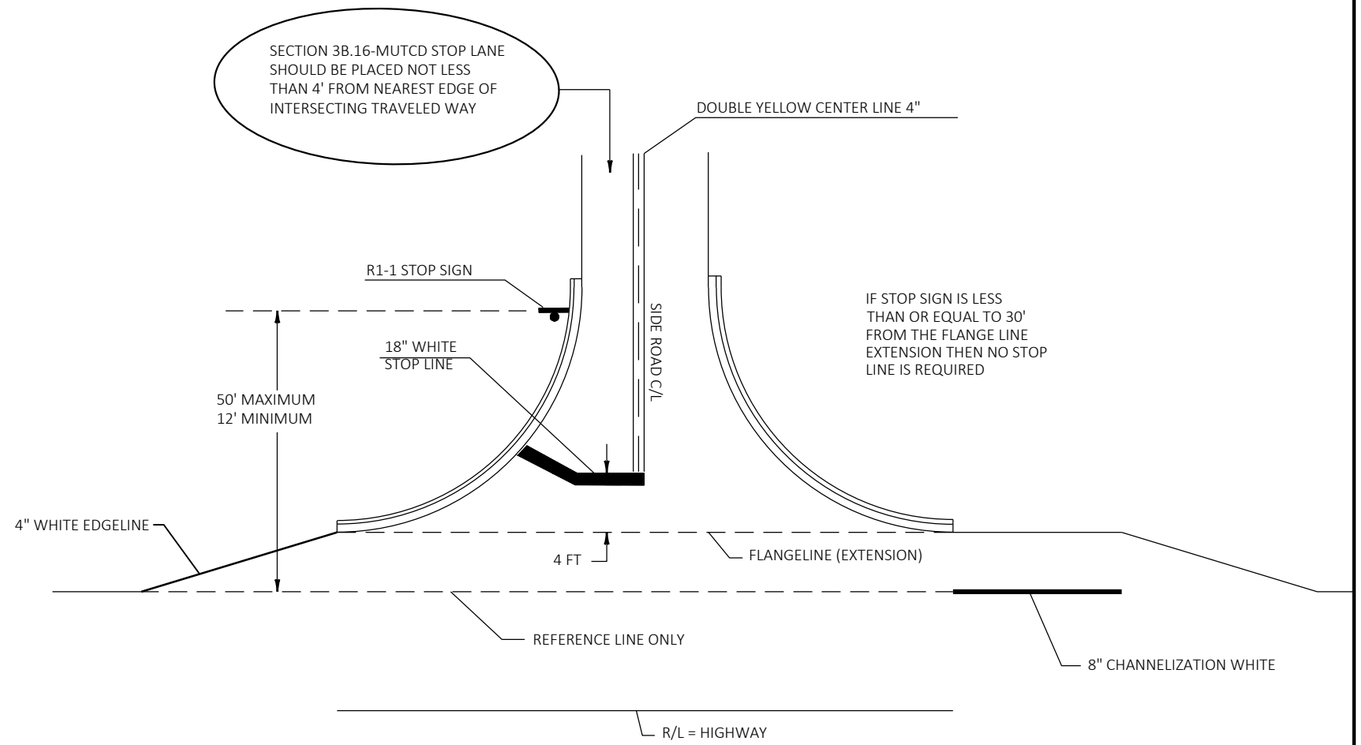


MINOR INTERSECTION WITH CURBS
(TYPICAL MARKING)

INTERSECTION PAVEMENT MARKING DETAILS



TYPICAL PAVEMENT MARKING FOR SIDEROADS



TYPICAL PAVEMENT MARKING FOR SIDEROADS WITH RIGHT TURN LANE

NOTES:
18-INCH STOP LINES MAY BE DELETED OR ADDED BY THE PROJECT ENGINEER BASED ON VISIBILITY AND SIGHT LINES.

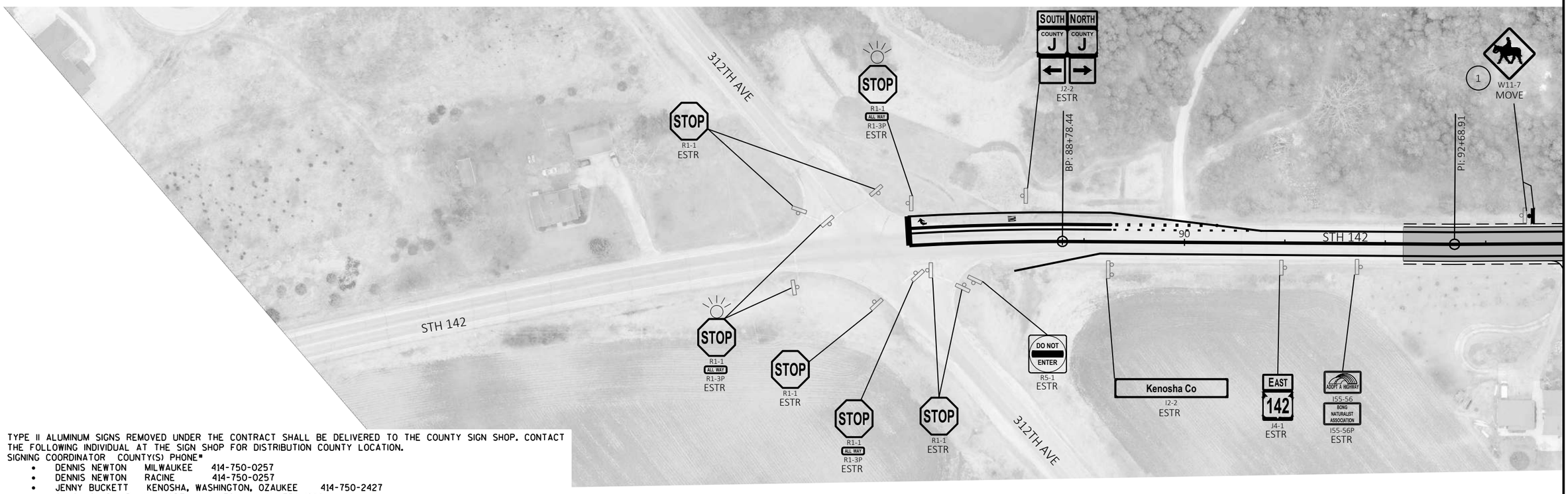
STOP LINES REQUIRED WHERE:
- CROSSWALK MARKINGS EXIST OR BEING PROVIDED
- LARGE RADII
- OFFSET LEFT TURNS WHERE STOP BAR FOR LEFT TURN IS SET BACK FROM THRU MOVEMENT.

SIDEROADS PAVEMENT MARKING DETAILS

2

LEGEND

- EXISTING SIGN MOUNTED ON POST(S)
- EXISTING SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- PROPOSED SIGN MOUNTED ON POST(S)
- PROPOSED SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- VMS VARIABLE MESSAGE SIGN
- EXISTING LIGHT OR SIGNAL POLE
- SIGN BRIDGE
- CANTILEVER SIGN BRIDGE
- (XXX) DENOTES SIGN NUMBER
- ESTR EXISTING SIGN TO REMAIN



TYPE II ALUMINUM SIGNS REMOVED UNDER THE CONTRACT SHALL BE DELIVERED TO THE COUNTY SIGN SHOP. CONTACT THE FOLLOWING INDIVIDUAL AT THE SIGN SHOP FOR DISTRIBUTION COUNTY LOCATION.

SIGNING COORDINATOR COUNTY(S) PHONE#

- DENNIS NEWTON MILWAUKEE 414-750-0257
- DENNIS NEWTON RACINE 414-750-0257
- JENNY BUCKETT KENOSHA, WASHINGTON, OZAUKEE 414-750-2427
- CHUCK SALDIVAR WALWORTH, WAUKESHA 414-750-1682

SIGNS SHALL BE CAREFULLY REMOVED FROM SIGN SUPPORTS. THE SIGNS SHALL BE PALLETIZED FOR HANDLING WITH A FORKLIFT (SEE STANDARD SPEC 638.3.4). THE REGIONAL SIGN SHOP (414-266-1165) SHALL BE NOTIFIED THREE WORKING DAYS PRIOR TO DELIVERY OF THE SIGNS.

WHEN AN EXISTING STOP SIGN SUPPORT IS TO BE REMOVED AND A NEW STOP SIGN AND SUPPORT ERECTED, THE WORK SHALL BE DONE CONCURRENTLY. FOR OTHER SIGNS AND SUPPORTS THAT ARE TO BE REMOVED AND NEW SIGNS AND SUPPORTS ERECTED, THE REMOVAL OF THE EXISTING SIGN/SUPPORT AND ERECTION OF THE NEW SIGN/SUPPORT SHOULD BE DONE AS CONCURRENTLY AS POSSIBLE. IN NO CASE SHALL A NEW SIGN/SUPPORT BE DOWN FOR MORE THAN 24 HOURS AND THERE SHALL NOT BE MORE THAN ONE SIGN OF THE SAME LEGEND MISSING IN A ROW.

WOOD POST SIZES, FOR TYPE II SIGNS ARE ESTIMATED LENGTHS AND THE ACTUAL LENGTH WILL BE DETERMINED IN THE FIELD.

STREET NAME SIGNS ARE PROPERTY OF THE MUNICIPALITY (CITY, VILLAGE OR TOWN). THE MUNICIPALITY SHALL BE CONTACTED TO REMOVE THEIR STREET NAME SIGNS PRIOR TO CONSTRUCTION AND IT IS THEIR RESPONSIBILITY TO REINSTALL THE OLD SIGNS OR REPLACE THEM FOLLOWING CONSTRUCTION. WISDOT DOES NOT FURNISH OR INSTALL STREET NAME SIGNS. THE STREET NAME SIGNS SHALL NOT BE PLACED ON TOP OF THE STOP SIGNS.

LOCATE NO PASSING PENNANTS BASED ON ESTABLISHING NO PASSING ZONES PAY ITEM. PLACE SIGNS BASED ON WHERE THE PAVEMENT MARKING FOR NO PASSING ZONES BEGIN.

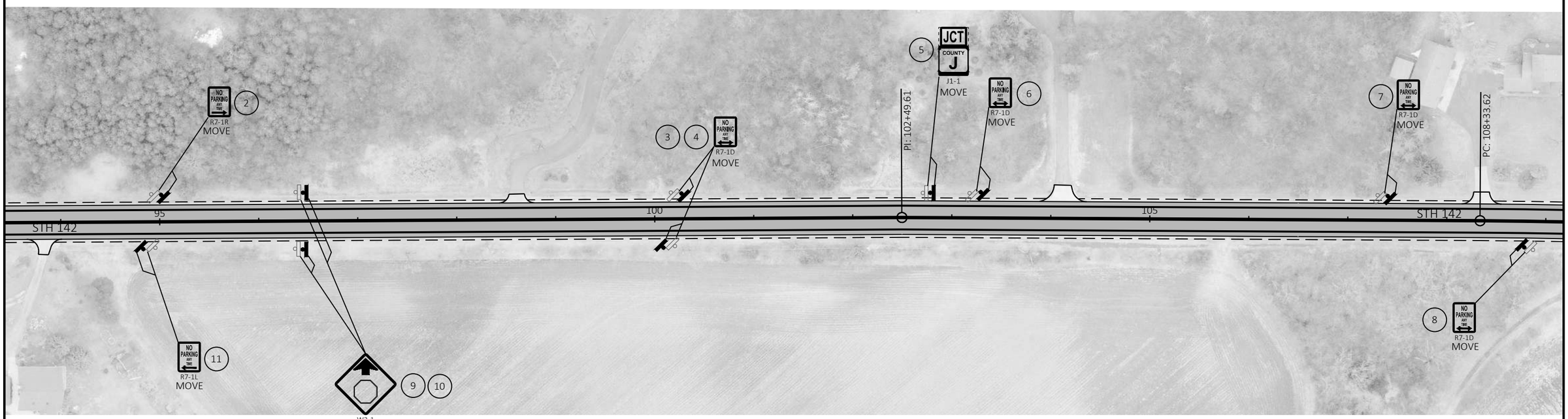
2

LEGEND

- EXISTING SIGN MOUNTED ON POST(S)
- EXISTING SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- PROPOSED SIGN MOUNTED ON POST(S)
- PROPOSED SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- VMS VARIABLE MESSAGE SIGN
- EXISTING LIGHT OR SIGNAL POLE
- SIGN BRIDGE
- CANTILEVER SIGN BRIDGE
- XXX DENOTES SIGN NUMBER
- ESTR EXISTING SIGN TO REMAIN

NOTE:
LOCATE NO PASSING PENNANTS BASED ON ESTABLISHING NO PASSING ZONES PAY ITEM.
PLACE SIGNS BASED ON WHERE THE PAVEMENT MARKING FOR NO PASSING ZONES BEGIN.

2



SHEET 2 OF 43

PROJECT NO: 3834-06-70	HWY: STH 142	COUNTY: KENOSHA	PERMANENT SIGNING PLAN	SHEET 15	E

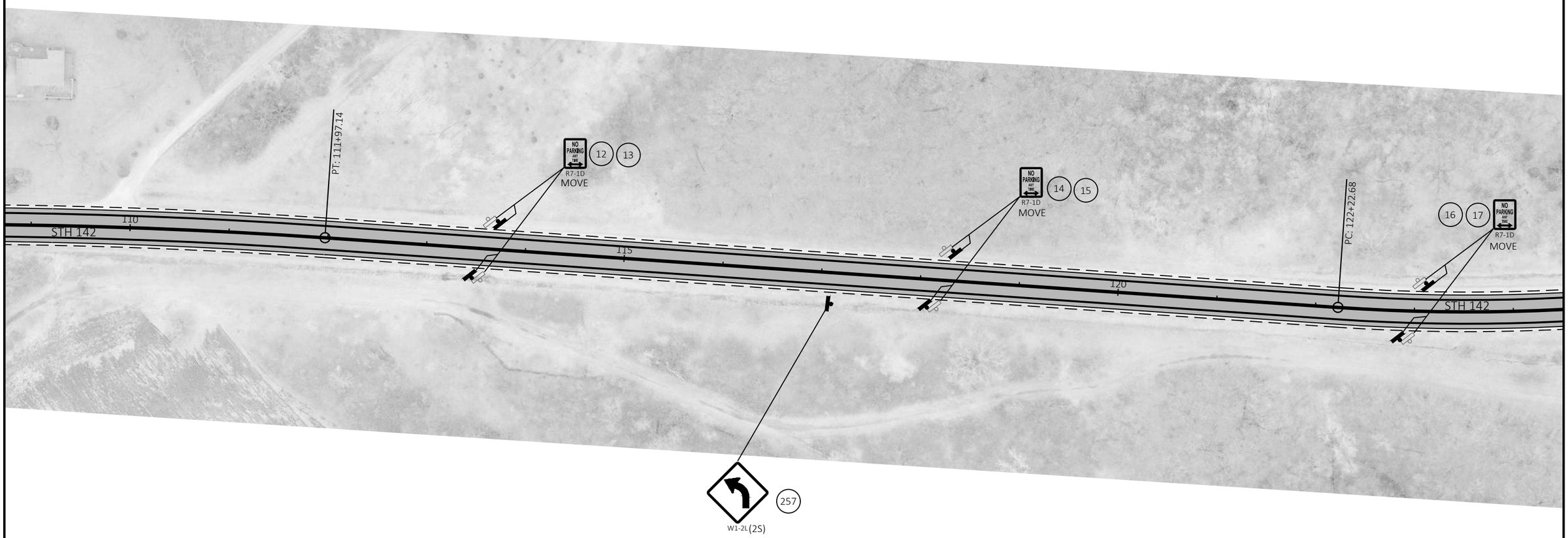
FILE NAME : C:\CIVIL 3D PROJECTS\38340600\SIGN\023201_PS_18.DWG
LAYOUT NAME - 023202_PS
PLOT DATE : 5/5/2020 9:48 AM PLOT BY : MARTENS, KAREN L PLOT NAME : PLOT SCALE : 1 IN:100 FT

WISDOT/CADDS SHEET 42

LEGEND

- EXISTING SIGN MOUNTED ON POST(S)
- EXISTING SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- PROPOSED SIGN MOUNTED ON POST(S)
- PROPOSED SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- VMS — VARIABLE MESSAGE SIGN
- EXISTING LIGHT OR SIGNAL POLE
- SIGN BRIDGE
- CANTILEVER SIGN BRIDGE
- XXX — DENOTES SIGN NUMBER
- ESTR — EXISTING SIGN TO REMAIN

NOTE:
LOCATE NO PASSING PENNANTS BASED ON ESTABLISHING NO PASSING ZONES PAY ITEM.
PLACE SIGNS BASED ON WHERE THE PAVEMENT MARKING FOR NO PASSING ZONES BEGIN.



SHEET 3 OF 43

PROJECT NO: 3834-06-70	HWY: STH 142	COUNTY: KENOSHA	PERMANENT SIGNING PLAN	SHEET 16	E

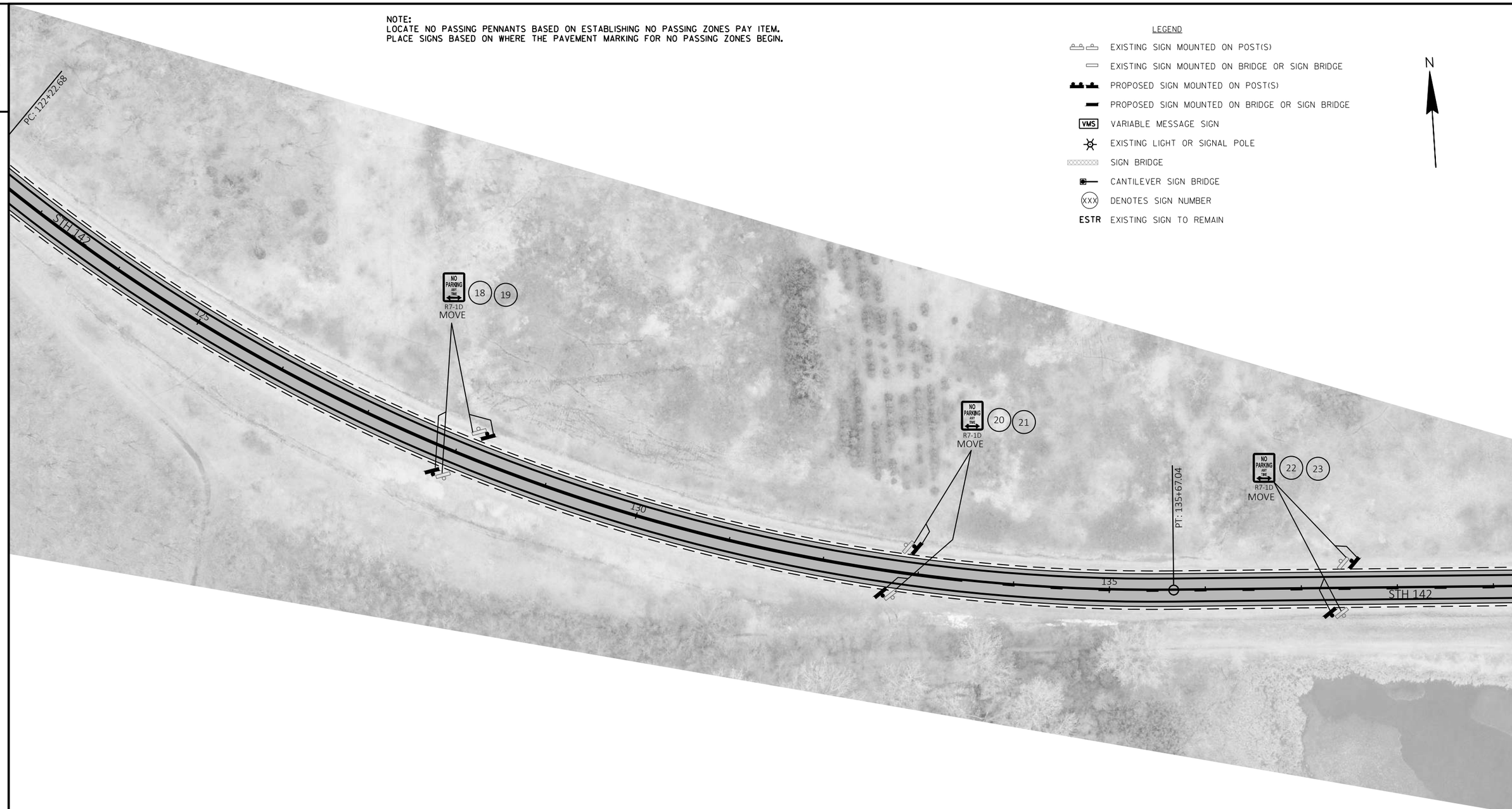
FILE NAME : C:\CIVIL 3D PROJECTS\38340600\SIGN\023201_PS_18.DWG
LAYOUT NAME - 023203_PS
PLOT DATE : 5/5/2020 9:48 AM
PLOT BY : MARTENS, KAREN L
PLOT NAME :
PLOT SCALE : 1 IN:100 FT

NOTE:
LOCATE NO PASSING PENNANTS BASED ON ESTABLISHING NO PASSING ZONES PAY ITEM.
PLACE SIGNS BASED ON WHERE THE PAVEMENT MARKING FOR NO PASSING ZONES BEGIN.

LEGEND

- EXISTING SIGN MOUNTED ON POST(S)
- EXISTING SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- PROPOSED SIGN MOUNTED ON POST(S)
- PROPOSED SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- VMS VARIABLE MESSAGE SIGN
- EXISTING LIGHT OR SIGNAL POLE
- SIGN BRIDGE
- CANTILEVER SIGN BRIDGE
- XXX DENOTES SIGN NUMBER
- ESTR EXISTING SIGN TO REMAIN

N



SHEET 4 OF 43

PROJECT NO: 3834-06-70	HWY: STH 142	COUNTY: KENOSHA	PERMANENT SIGNING PLAN	SHEET 17	E

FILE NAME : C:\CIVIL 3D PROJECTS\38340600\SIGN\023201_PS_18.DWG
LAYOUT NAME - 023204_PS
PLOT DATE : 5/5/2020 9:49 AM PLOT BY : MARTENS, KAREN L PLOT NAME : PLOT SCALE : 1 IN:100 FT

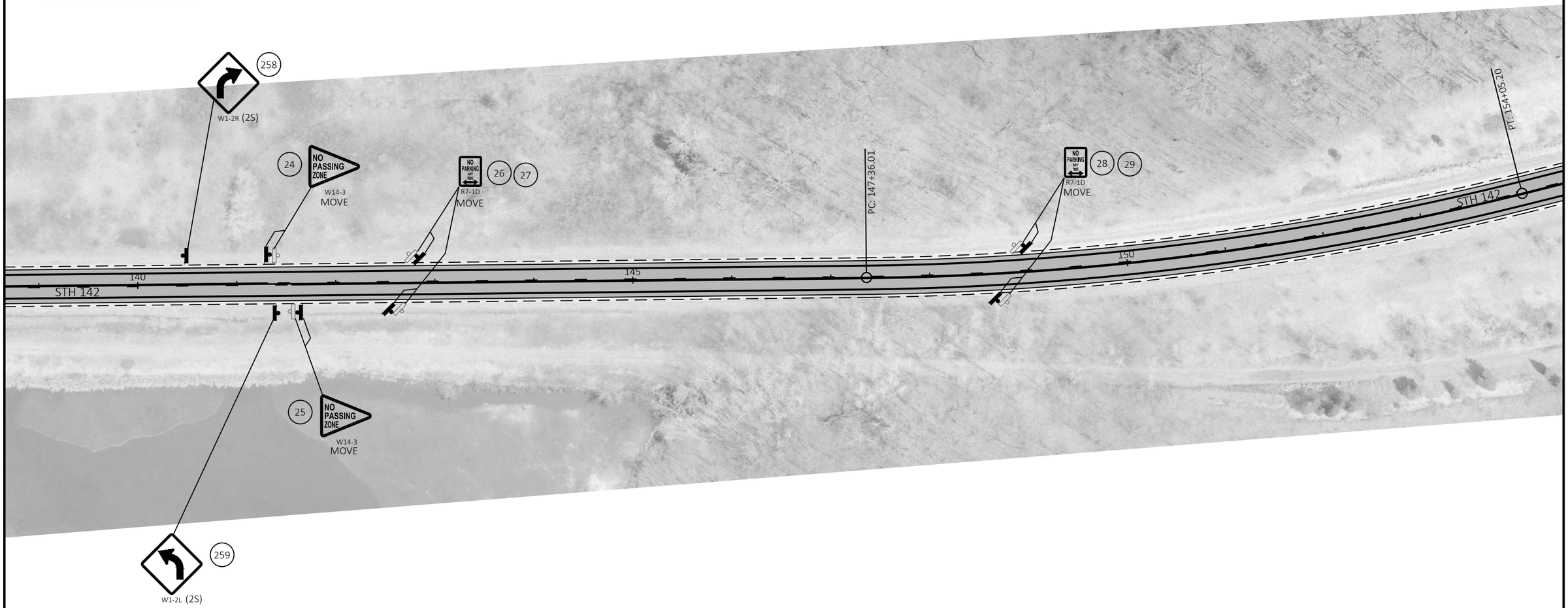
2

LEGEND

- EXISTING SIGN MOUNTED ON POST(S)
- EXISTING SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- PROPOSED SIGN MOUNTED ON POST(S)
- PROPOSED SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- VMS VARIABLE MESSAGE SIGN
- EXISTING LIGHT OR SIGNAL POLE
- SIGN BRIDGE
- CANTILEVER SIGN BRIDGE
- XXX DENOTES SIGN NUMBER
- ESTR EXISTING SIGN TO REMAIN

NOTE:
LOCATE NO PASSING PENNANTS BASED ON ESTABLISHING NO PASSING ZONES PAY ITEM.
PLACE SIGNS BASED ON WHERE THE PAVEMENT MARKING FOR NO PASSING ZONES BEGIN.

N



2

SHEET 5 OF 43

PROJECT NO: 3834-06-70	HWY: STH 142	COUNTY: KENOSHA	PERMANENT SIGNING PLAN	SHEET 18	E

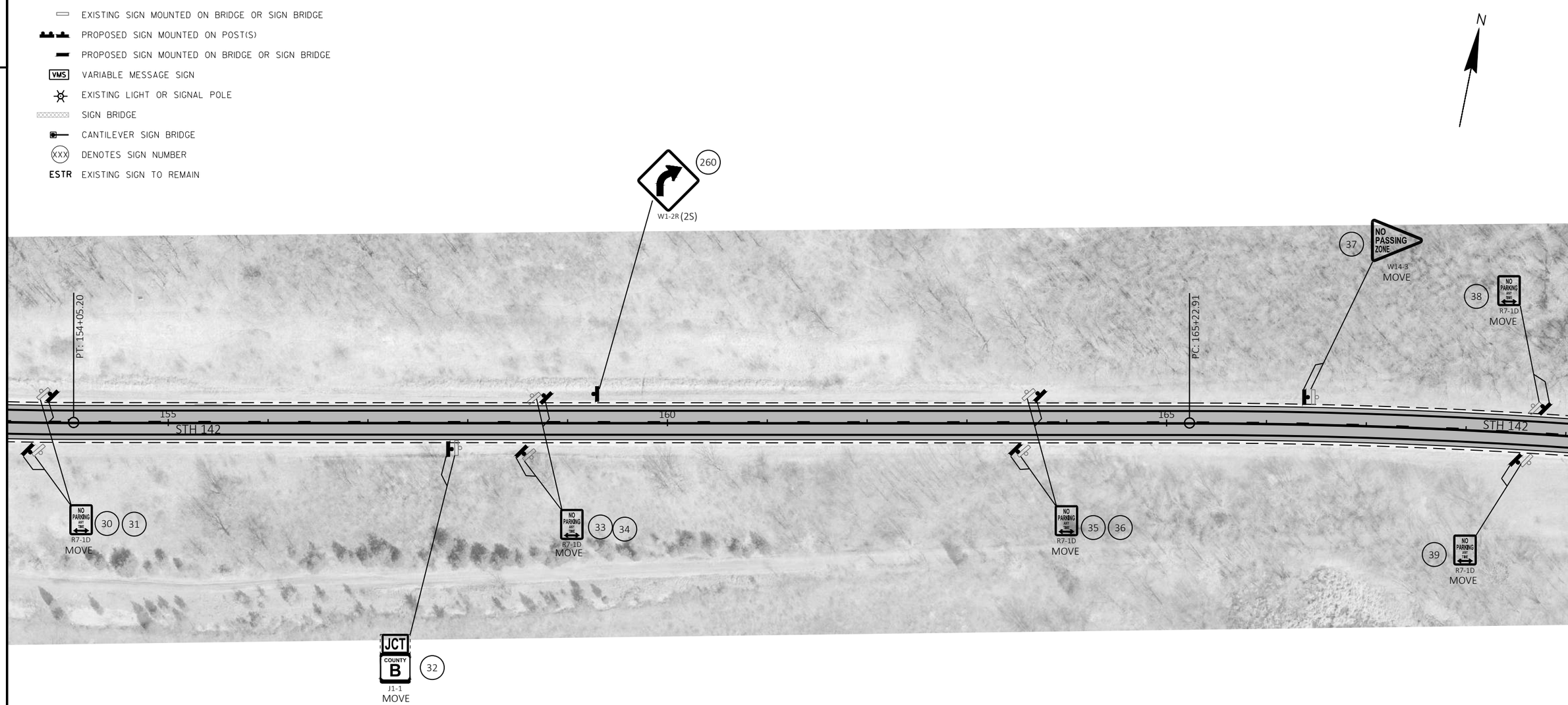
FILE NAME : C:\CIVIL 3D PROJECTS\38340600\SIGN\023201_PS_18.DWG
LAYOUT NAME - 023205_PS
PLOT DATE : 5/5/2020 9:49 AM
PLOT BY : MARTENS, KAREN L
PLOT NAME :
PLOT SCALE : 1 IN:100 FT
WISDOT/CADDS SHEET 42

2

LEGEND

- EXISTING SIGN MOUNTED ON POST(S)
- EXISTING SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- PROPOSED SIGN MOUNTED ON POST(S)
- PROPOSED SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- VMS VARIABLE MESSAGE SIGN
- EXISTING LIGHT OR SIGNAL POLE
- SIGN BRIDGE
- CANTILEVER SIGN BRIDGE
- XXX DENOTES SIGN NUMBER
- ESTR EXISTING SIGN TO REMAIN

NOTE:
LOCATE NO PASSING PENNANTS BASED ON ESTABLISHING NO PASSING ZONES PAY ITEM.
PLACE SIGNS BASED ON WHERE THE PAVEMENT MARKING FOR NO PASSING ZONES BEGIN.



SHEET 6 OF 43

PROJECT NO: 3834-06-70	HWY: STH 142	COUNTY: KENOSHA	PERMANENT SIGNING PLAN	SHEET 19	E

FILE NAME : C:\CIVIL 3D PROJECTS\38340600\SIGN\023201_PS_18.DWG
LAYOUT NAME - 023206_PS
PLOT DATE : 5/5/2020 9:49 AM PLOT BY : MARTENS, KAREN L PLOT NAME : PLOT SCALE : 1 IN:100 FT

2

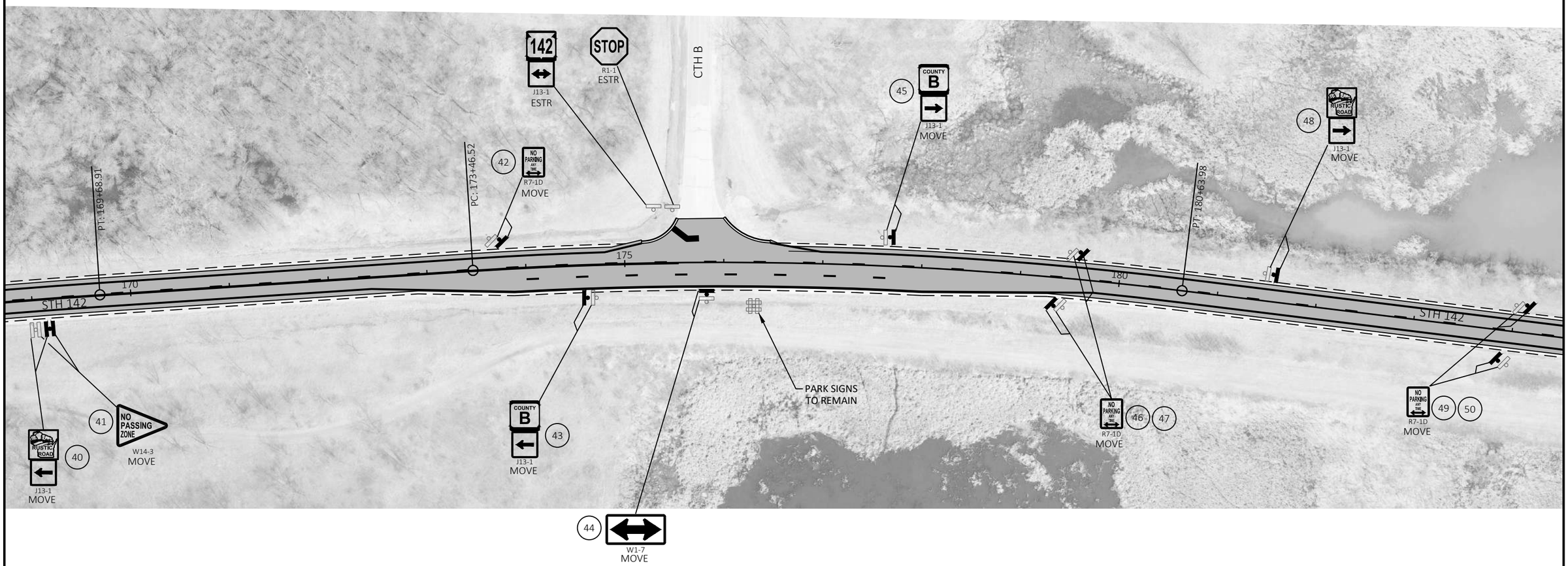
LEGEND

- EXISTING SIGN MOUNTED ON POST(S)
- EXISTING SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- PROPOSED SIGN MOUNTED ON POST(S)
- PROPOSED SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- VMS VARIABLE MESSAGE SIGN
- EXISTING LIGHT OR SIGNAL POLE
- SIGN BRIDGE
- CANTILEVER SIGN BRIDGE
- XXX DENOTES SIGN NUMBER
- ESTR EXISTING SIGN TO REMAIN

NOTE:
LOCATE NO PASSING PENNANTS BASED ON ESTABLISHING NO PASSING ZONES PAY ITEM.
PLACE SIGNS BASED ON WHERE THE PAVEMENT MARKING FOR NO PASSING ZONES BEGIN.

N

2



SHEET 7 OF 43

PROJECT NO: 3834-06-70	HWY: STH 142	COUNTY: KENOSHA	PERMANENT SIGNING PLAN	SHEET 20	E

FILE NAME : C:\CIVIL 3D PROJECTS\38340600\SIGN\023201_PS_18.DWG
LAYOUT NAME - 023207_PS
PLOT DATE : 5/5/2020 9:49 AM
PLOT BY : MARTENS, KAREN L
PLOT NAME :
PLOT SCALE : 1 IN:100 FT
WISDOT/CADDS SHEET 42

2

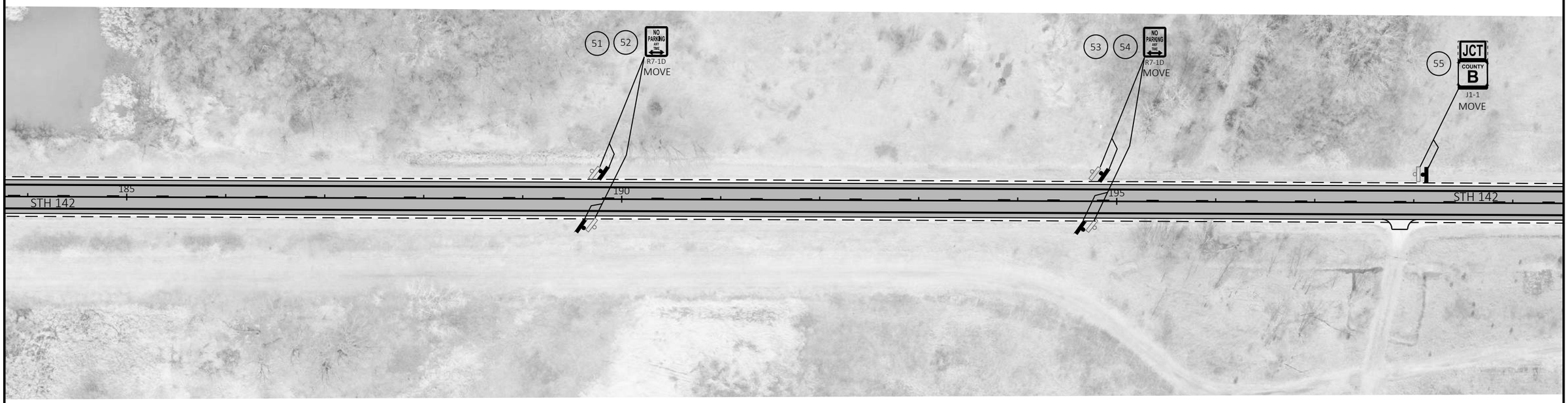
LEGEND

- EXISTING SIGN MOUNTED ON POST(S)
- EXISTING SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- PROPOSED SIGN MOUNTED ON POST(S)
- PROPOSED SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- VMS VARIABLE MESSAGE SIGN
- EXISTING LIGHT OR SIGNAL POLE
- SIGN BRIDGE
- CANTILEVER SIGN BRIDGE
- XXX DENOTES SIGN NUMBER
- ESTR EXISTING SIGN TO REMAIN

NOTE:
LOCATE NO PASSING PENNANTS BASED ON ESTABLISHING NO PASSING ZONES PAY ITEM.
PLACE SIGNS BASED ON WHERE THE PAVEMENT MARKING FOR NO PASSING ZONES BEGIN.

N

2



SHEET 8 OF 43

PROJECT NO: 3834-06-70	HWY: STH 142	COUNTY: KENOSHA	PERMANENT SIGNING PLAN	SHEET 21	E

FILE NAME : C:\CIVIL 3D PROJECTS\38340600\SIGN\023201_PS_18.DWG
LAYOUT NAME - 023208_PS
PLOT DATE : 5/5/2020 9:49 AM
PLOT BY : MARTENS, KAREN L
PLOT NAME :
PLOT SCALE : 1 IN:100 FT

WISDOT/CADDS SHEET 42

2

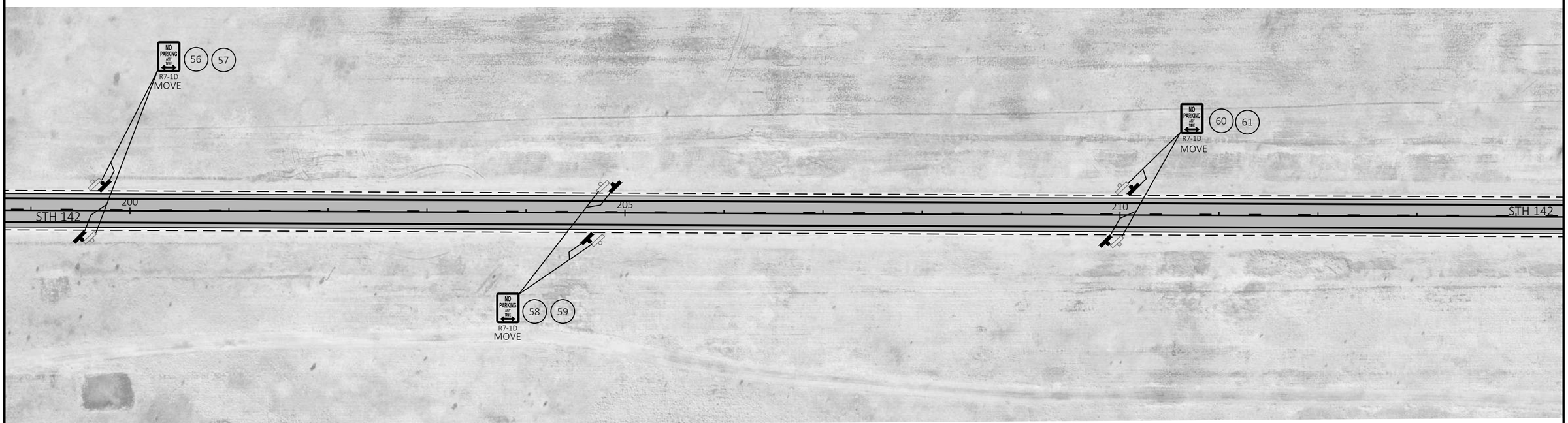
LEGEND

- EXISTING SIGN MOUNTED ON POST(S)
- EXISTING SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- PROPOSED SIGN MOUNTED ON POST(S)
- PROPOSED SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- VMS VARIABLE MESSAGE SIGN
- EXISTING LIGHT OR SIGNAL POLE
- SIGN BRIDGE
- CANTILEVER SIGN BRIDGE
- XXX DENOTES SIGN NUMBER
- ESTR EXISTING SIGN TO REMAIN

NOTE:
LOCATE NO PASSING PENNANTS BASED ON ESTABLISHING NO PASSING ZONES PAY ITEM.
PLACE SIGNS BASED ON WHERE THE PAVEMENT MARKING FOR NO PASSING ZONES BEGIN.

N

2



SHEET 9 OF 43

PROJECT NO: 3834-06-70	HWY: STH 142	COUNTY: KENOSHA	PERMANENT SIGNING PLAN	SHEET 22	E

FILE NAME : C:\CIVIL 3D PROJECTS\38340600\SIGN\023201_PS_18.DWG
LAYOUT NAME - 023209_PS
PLOT DATE : 5/5/2020 9:49 AM
PLOT BY : MARTENS, KAREN L
PLOT NAME :
PLOT SCALE : 1 IN:100 FT

WISDOT/CADDS SHEET 42

2

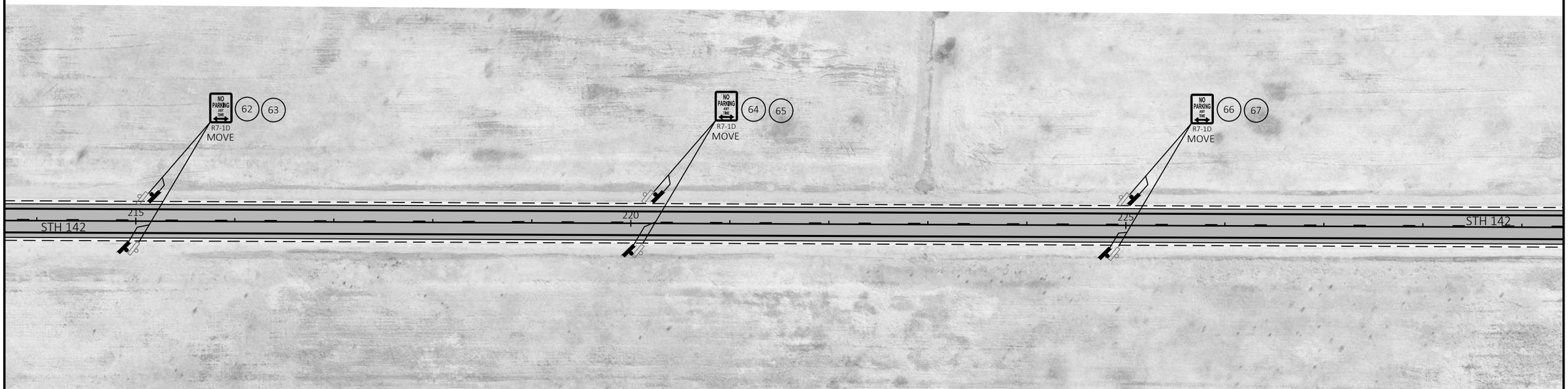
LEGEND

- EXISTING SIGN MOUNTED ON POST(S)
- EXISTING SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- PROPOSED SIGN MOUNTED ON POST(S)
- PROPOSED SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- VMS VARIABLE MESSAGE SIGN
- EXISTING LIGHT OR SIGNAL POLE
- SIGN BRIDGE
- CANTILEVER SIGN BRIDGE
- XXX DENOTES SIGN NUMBER
- ESTR EXISTING SIGN TO REMAIN

NOTE:
LOCATE NO PASSING PENNANTS BASED ON ESTABLISHING NO PASSING ZONES PAY ITEM.
PLACE SIGNS BASED ON WHERE THE PAVEMENT MARKING FOR NO PASSING ZONES BEGIN.

N

2



SHEET 10 OF 43

PROJECT NO: 3834-06-70	HWY: STH 142	COUNTY: KENOSHA	PERMANENT SIGNING PLAN	SHEET 23	E

FILE NAME : C:\CIVIL 3D PROJECTS\38340600\SIGN\023201_PS_18.DWG
LAYOUT NAME - 023210_PS
PLOT DATE : 5/5/2020 9:49 AM PLOT BY : MARTENS, KAREN L PLOT NAME : PLOT SCALE : 1 IN:100 FT

WISDOT/CADDS SHEET 42

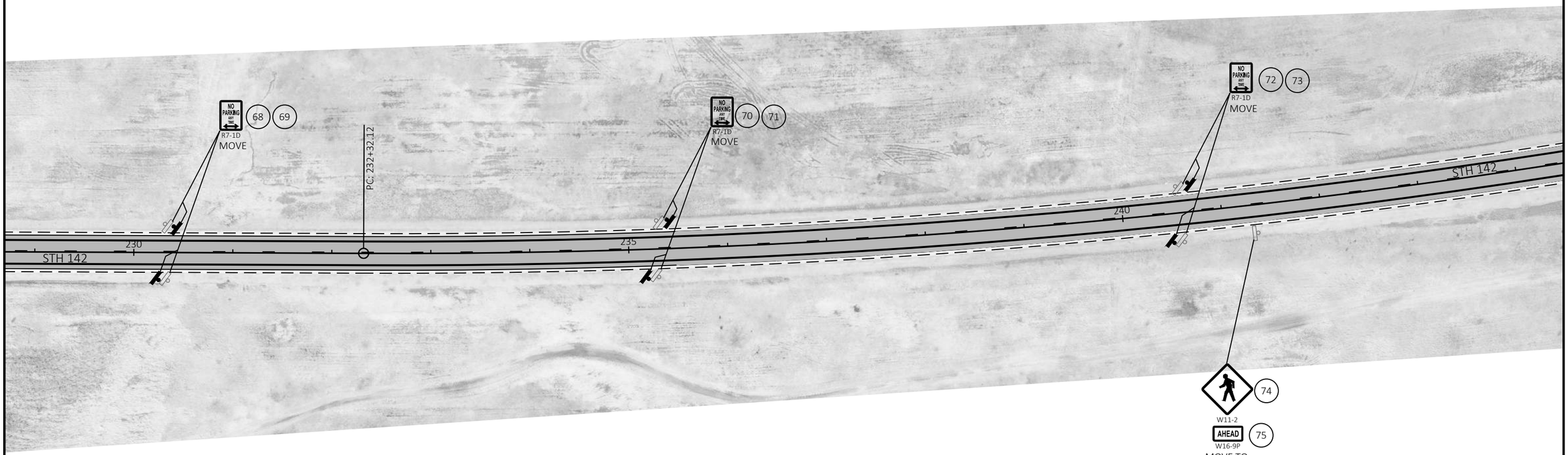
2

LEGEND

- EXISTING SIGN MOUNTED ON POST(S)
- EXISTING SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- PROPOSED SIGN MOUNTED ON POST(S)
- PROPOSED SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- VMS VARIABLE MESSAGE SIGN
- EXISTING LIGHT OR SIGNAL POLE
- SIGN BRIDGE
- CANTILEVER SIGN BRIDGE
- XXX DENOTES SIGN NUMBER
- ESTR EXISTING SIGN TO REMAIN

NOTE:
LOCATE NO PASSING PENNANTS BASED ON ESTABLISHING NO PASSING ZONES PAY ITEM.
PLACE SIGNS BASED ON WHERE THE PAVEMENT MARKING FOR NO PASSING ZONES BEGIN.

N



SHEET 11 OF 43

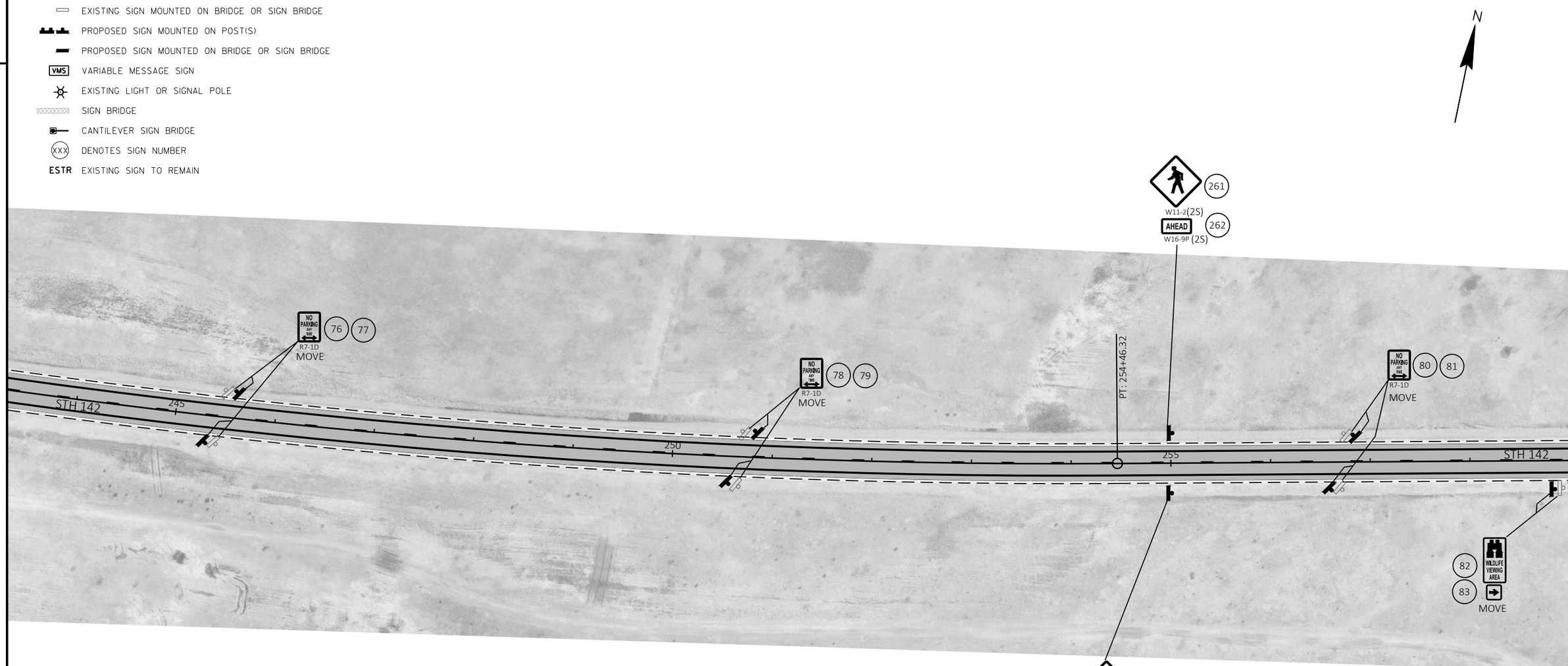
PROJECT NO: 3834-06-70	HWY: STH 142	COUNTY: KENOSHA	PERMANENT SIGNING PLAN	SHEET 24	E

2

LEGEND

- EXISTING SIGN MOUNTED ON POST(S)
- EXISTING SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- PROPOSED SIGN MOUNTED ON POST(S)
- PROPOSED SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- VMS VARIABLE MESSAGE SIGN
- EXISTING LIGHT OR SIGNAL POLE
- SIGN BRIDGE
- CANTILEVER SIGN BRIDGE
- XXX DENOTES SIGN NUMBER
- ESTR EXISTING SIGN TO REMAIN

NOTE:
LOCATE NO PASSING PENNANTS BASED ON ESTABLISHING NO PASSING ZONES PAY ITEM.
PLACE SIGNS BASED ON WHERE THE PAVEMENT MARKING FOR NO PASSING ZONES BEGIN.



SHEET 12 OF 43

PROJECT NO: 3834-06-70	HWY: STH 142	COUNTY: KENOSHA	PERMANENT SIGNING PLAN	SHEET 25	E

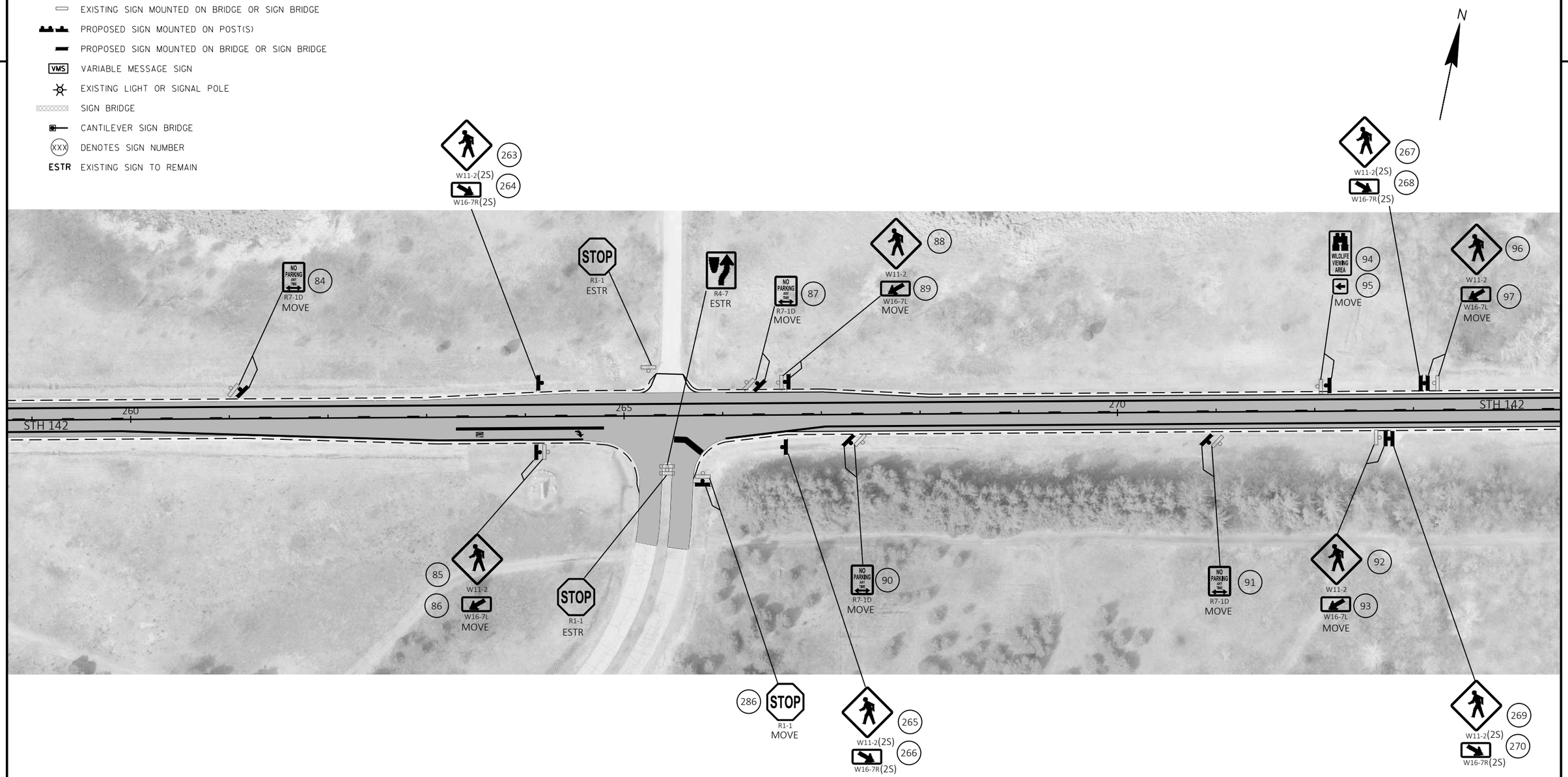
FILE NAME : C:\CIVIL 3D PROJECTS\38340600\SIGN\023201_PS_18.DWG
LAYOUT NAME - 023212_PS
PLOT DATE : 5/5/2020 9:49 AM
PLOT BY : MARTENS, KAREN L
PLOT NAME :
PLOT SCALE : 1 IN:100 FT
WISDOT/CADDS SHEET 42

2

LEGEND

- EXISTING SIGN MOUNTED ON POST(S)
- EXISTING SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- PROPOSED SIGN MOUNTED ON POST(S)
- PROPOSED SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- VMS VARIABLE MESSAGE SIGN
- EXISTING LIGHT OR SIGNAL POLE
- SIGN BRIDGE
- CANTILEVER SIGN BRIDGE
- XXX DENOTES SIGN NUMBER
- ESTR EXISTING SIGN TO REMAIN

NOTE:
LOCATE NO PASSING PENNANTS BASED ON ESTABLISHING NO PASSING ZONES PAY ITEM.
PLACE SIGNS BASED ON WHERE THE PAVEMENT MARKING FOR NO PASSING ZONES BEGIN.



SHEET 13 OF 43

PROJECT NO: 3834-06-70	HWY: STH 142	COUNTY: KENOSHA	PERMANENT SIGNING PLAN	SHEET 26	E

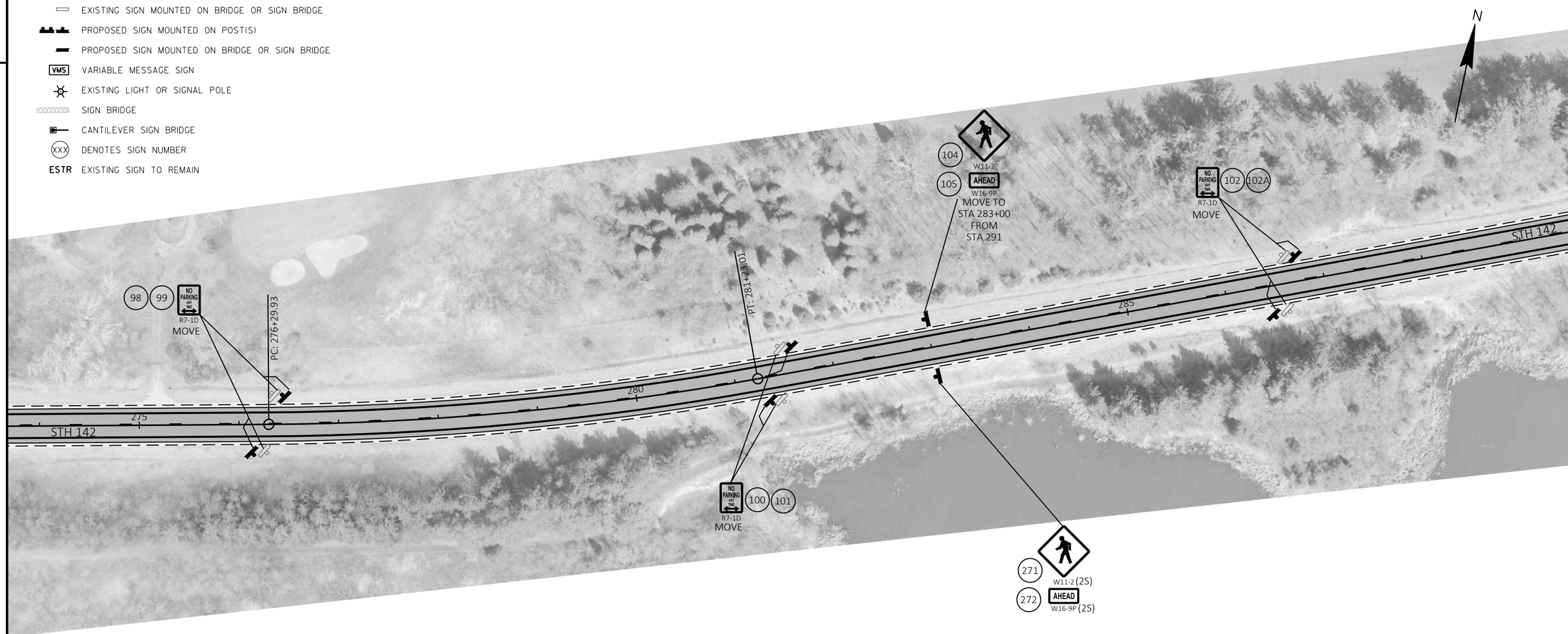
FILE NAME : C:\CIVIL 3D PROJECTS\38340600\SIGN\023201_PS_18.DWG
LAYOUT NAME - 023213_PS
PLOT DATE : 5/5/2020 9:49 AM PLOT BY : MARTENS, KAREN L PLOT NAME : PLOT SCALE : 1 IN:100 FT

2

LEGEND

- EXISTING SIGN MOUNTED ON POST(S)
- EXISTING SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- PROPOSED SIGN MOUNTED ON POST(S)
- PROPOSED SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- VMS VARIABLE MESSAGE SIGN
- EXISTING LIGHT OR SIGNAL POLE
- SIGN BRIDGE
- CANTILEVER SIGN BRIDGE
- XXX DENOTES SIGN NUMBER
- ESTR EXISTING SIGN TO REMAIN

NOTE:
LOCATE NO PASSING PENNANTS BASED ON ESTABLISHING NO PASSING ZONES PAY ITEM.
PLACE SIGNS BASED ON WHERE THE PAVEMENT MARKING FOR NO PASSING ZONES BEGIN.



SHEET 14 OF 43

PROJECT NO: 3834-06-70	HWY: STH 142	COUNTY: KENOSHA	PERMANENT SIGNING PLAN	SHEET 27	E

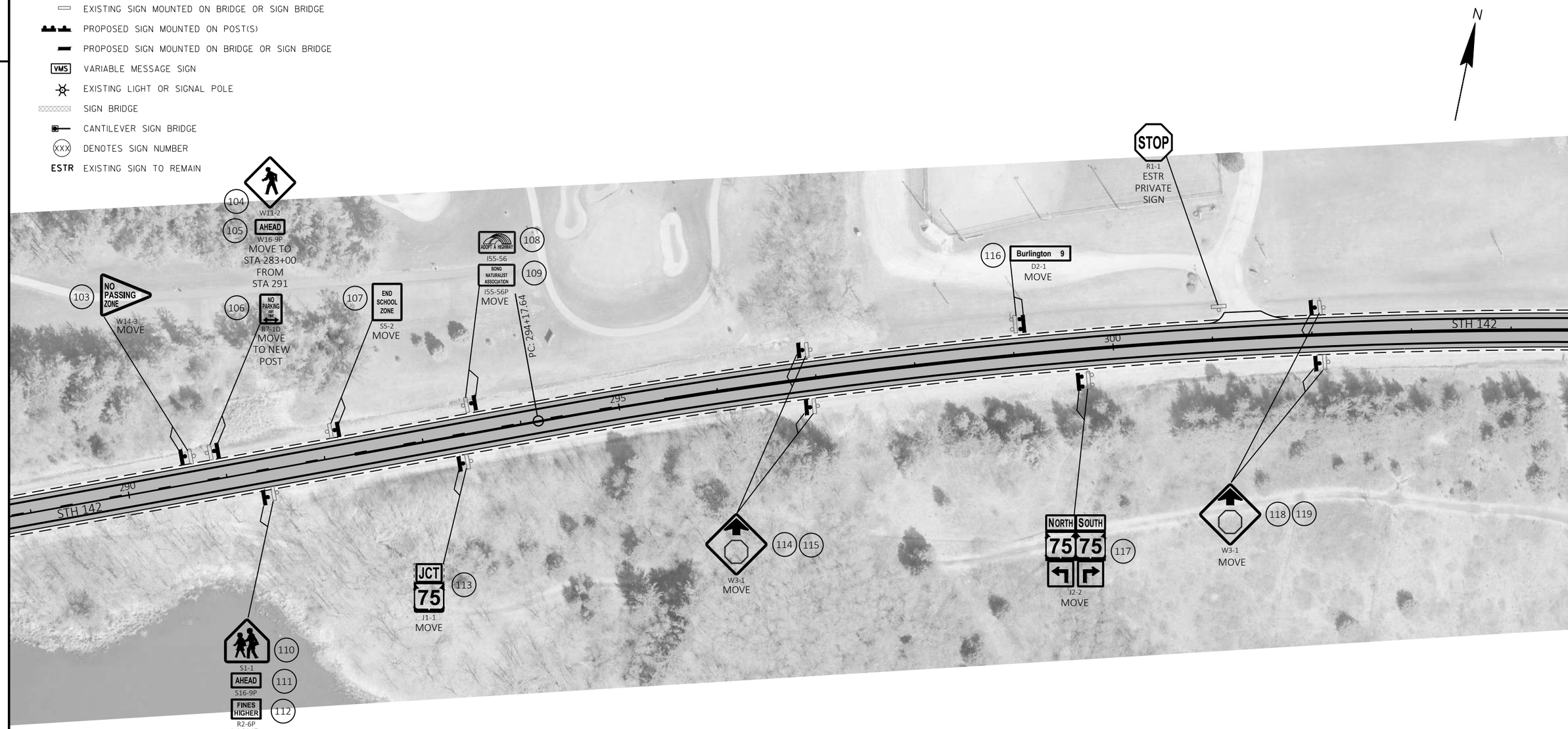
FILE NAME : C:\CIVIL 3D PROJECTS\38340600\SIGN\023201_PS_18.DWG
LAYOUT NAME - 023214_PS
PLOT DATE : 5/5/2020 9:49 AM PLOT BY : MARTENS, KAREN L PLOT NAME : PLOT SCALE : 1 IN:100 FT
WISDOT/CADDS SHEET 42

2

LEGEND

- EXISTING SIGN MOUNTED ON POST(S)
- EXISTING SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- PROPOSED SIGN MOUNTED ON POST(S)
- PROPOSED SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- VMS VARIABLE MESSAGE SIGN
- EXISTING LIGHT OR SIGNAL POLE
- SIGN BRIDGE
- CANTILEVER SIGN BRIDGE
- XXX DENOTES SIGN NUMBER
- ESTR EXISTING SIGN TO REMAIN

NOTE:
LOCATE NO PASSING PENNANTS BASED ON ESTABLISHING NO PASSING ZONES PAY ITEM.
PLACE SIGNS BASED ON WHERE THE PAVEMENT MARKING FOR NO PASSING ZONES BEGIN.



SHEET 15 OF 43

PROJECT NO: 3834-06-70	HWY: STH 142	COUNTY: KENOSHA	PERMANENT SIGNING PLAN	SHEET 28	E

FILE NAME : C:\CIVIL 3D PROJECTS\38340600\SIGN\023201_PS_18.DWG
LAYOUT NAME - 023215_PS
PLOT DATE : 5/5/2020 9:49 AM PLOT BY : MARTENS, KAREN L PLOT NAME : PLOT SCALE : 1 IN:100 FT

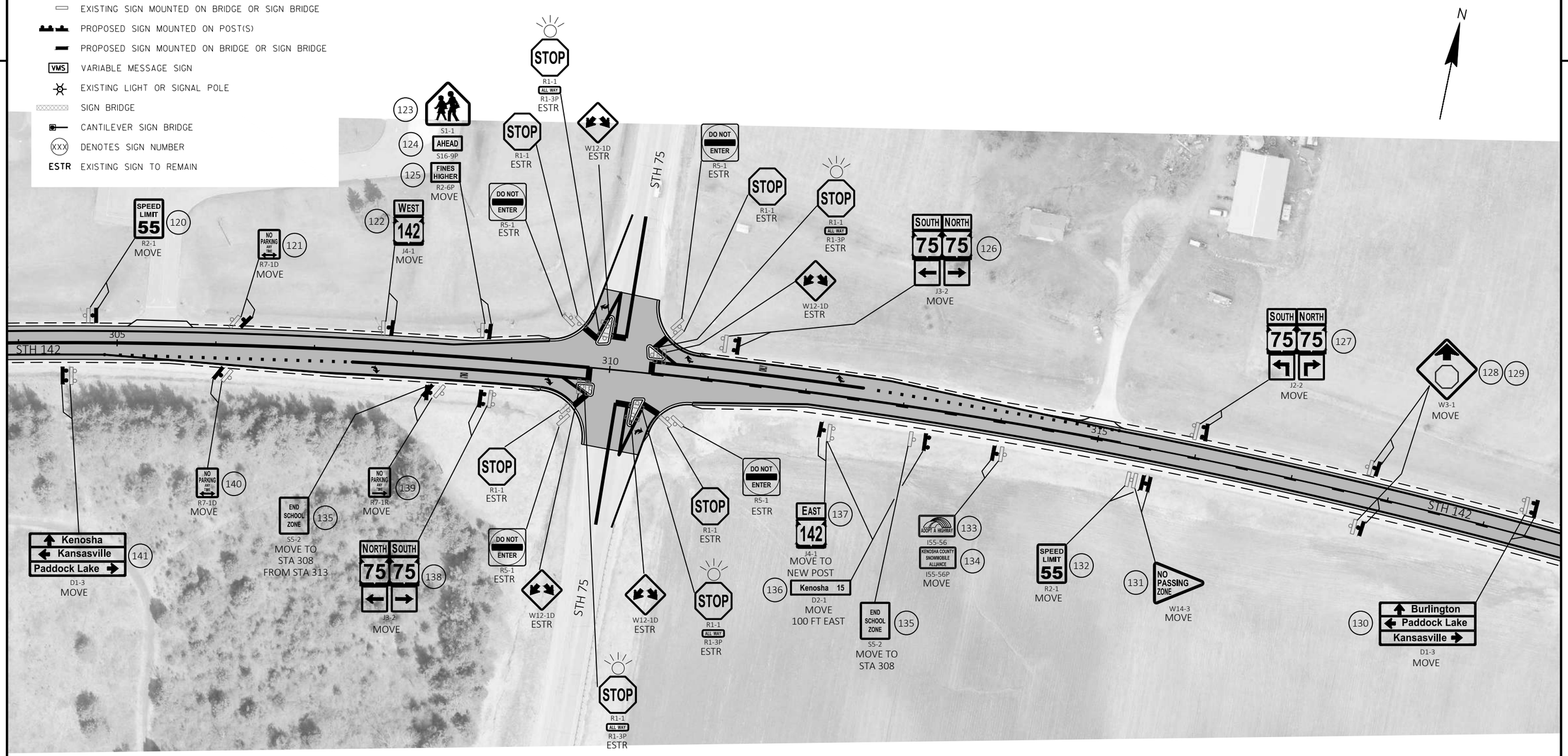
WISDOT/CADDS SHEET 42

2

LEGEND

- EXISTING SIGN MOUNTED ON POST(S)
- EXISTING SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- PROPOSED SIGN MOUNTED ON POST(S)
- PROPOSED SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- VMS VARIABLE MESSAGE SIGN
- EXISTING LIGHT OR SIGNAL POLE
- SIGN BRIDGE
- CANTILEVER SIGN BRIDGE
- XXX DENOTES SIGN NUMBER
- ESTR EXISTING SIGN TO REMAIN

NOTE:
LOCATE NO PASSING PENNANTS BASED ON ESTABLISHING NO PASSING ZONES PAY ITEM.
PLACE SIGNS BASED ON WHERE THE PAVEMENT MARKING FOR NO PASSING ZONES BEGIN.



SHEET 16 OF 43

PROJECT NO: 3834-06-70	HWY: STH 142	COUNTY: KENOSHA	PERMANENT SIGNING PLAN	SHEET 29	E

FILE NAME : C:\CIVIL 3D PROJECTS\38340600\SIGN\023201_PS_18.DWG
LAYOUT NAME - 023216_PS
PLOT DATE : 5/5/2020 9:49 AM PLOT BY : MARTENS, KAREN L PLOT NAME : PLOT SCALE : 1 IN:100 FT

2

LEGEND

- EXISTING SIGN MOUNTED ON POST(S)
- EXISTING SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- PROPOSED SIGN MOUNTED ON POST(S)
- PROPOSED SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- VMS VARIABLE MESSAGE SIGN
- EXISTING LIGHT OR SIGNAL POLE
- SIGN BRIDGE
- CANTILEVER SIGN BRIDGE
- XXX DENOTES SIGN NUMBER
- ESTR EXISTING SIGN TO REMAIN

NOTE:
LOCATE NO PASSING PENNANTS BASED ON ESTABLISHING NO PASSING ZONES PAY ITEM.
PLACE SIGNS BASED ON WHERE THE PAVEMENT MARKING FOR NO PASSING ZONES BEGIN.

N

2

SHEET 17 OF 43

PROJECT NO: 3834-06-70	HWY: STH 142	COUNTY: KENOSHA	PERMANENT SIGNING PLAN	SHEET 30	E

FILE NAME : C:\CIVIL 3D PROJECTS\38340600\SIGN\023201_PS_18.DWG
LAYOUT NAME - 023217_PS
PLOT DATE : 5/5/2020 9:49 AM
PLOT BY : MARTENS, KAREN L
PLOT NAME :
PLOT SCALE : 1 IN:100 FT
WISDOT/CADDS SHEET 42

2

LEGEND

- EXISTING SIGN MOUNTED ON POST(S)
- EXISTING SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- PROPOSED SIGN MOUNTED ON POST(S)
- PROPOSED SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- VMS VARIABLE MESSAGE SIGN
- EXISTING LIGHT OR SIGNAL POLE
- SIGN BRIDGE
- CANTILEVER SIGN BRIDGE
- XXX DENOTES SIGN NUMBER
- ESTR EXISTING SIGN TO REMAIN

NOTE:
LOCATE NO PASSING PENNANTS BASED ON ESTABLISHING NO PASSING ZONES PAY ITEM.
PLACE SIGNS BASED ON WHERE THE PAVEMENT MARKING FOR NO PASSING ZONES BEGIN.

N

SHEET 18 OF 43

PROJECT NO: 3834-06-70	HWY: STH 142	COUNTY: KENOSHA	PERMANENT SIGNING PLAN	SHEET 31	E

FILE NAME : C:\CIVIL 3D PROJECTS\38340600\SIGN\023201_PS_18.DWG
LAYOUT NAME - 023218_PS
PLOT DATE : 5/5/2020 9:49 AM PLOT BY : MARTENS, KAREN L PLOT NAME : PLOT SCALE : 1 IN:100 FT

2

LEGEND

- EXISTING SIGN MOUNTED ON POST(S)
- EXISTING SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- PROPOSED SIGN MOUNTED ON POST(S)
- PROPOSED SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- VMS VARIABLE MESSAGE SIGN
- EXISTING LIGHT OR SIGNAL POLE
- SIGN BRIDGE
- CANTILEVER SIGN BRIDGE
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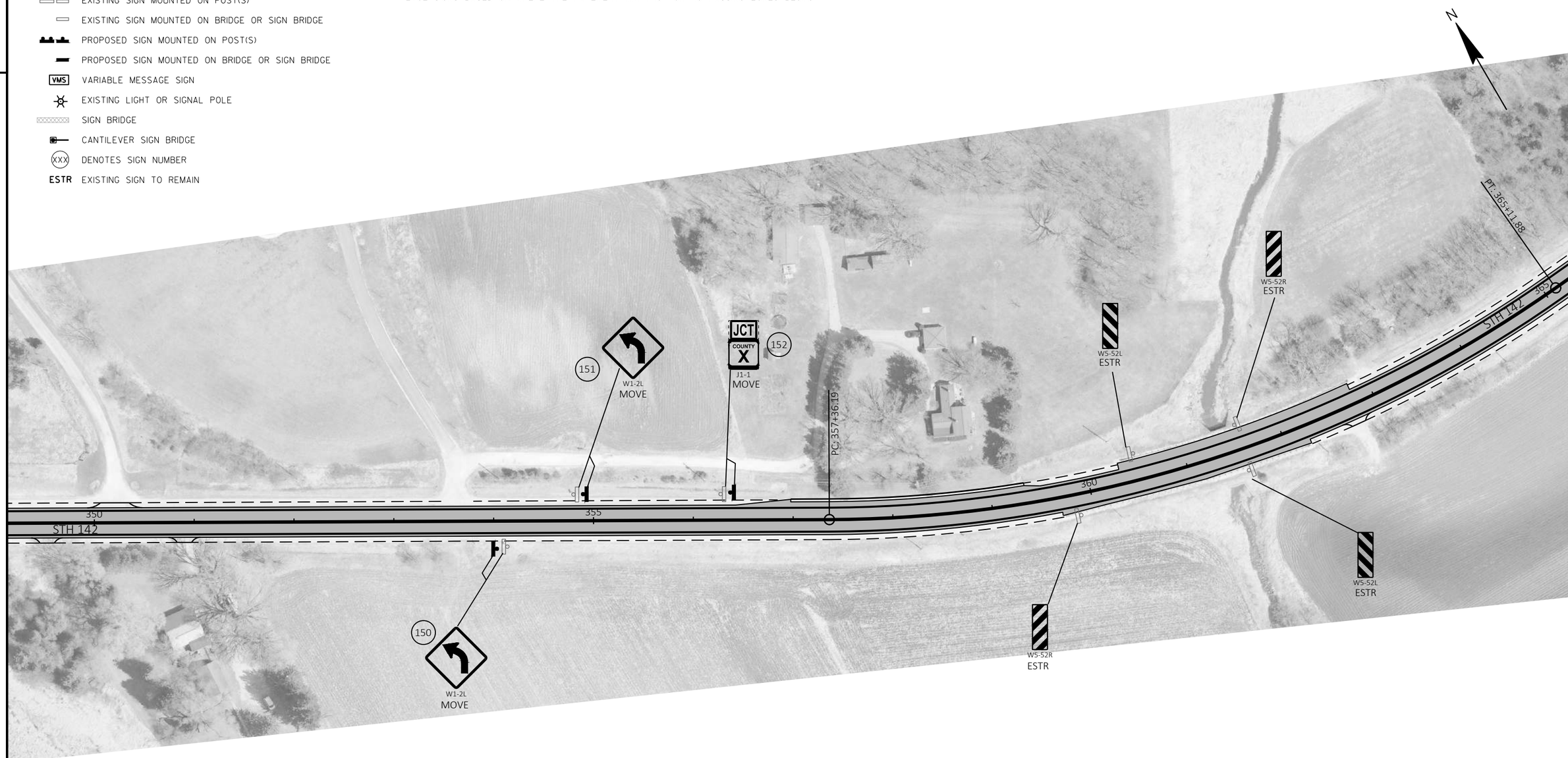
- ESTR EXISTING SIGN TO REMAIN

NOTE:
LOCATE NO PASSING PENNANTS BASED ON ESTABLISHING NO PASSING ZONES PAY ITEM.
PLACE SIGNS BASED ON WHERE THE PAVEMENT MARKING FOR NO PASSING ZONES BEGIN.



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SHEET 19 OF 43

PROJECT NO: 3834-06-70	HWY: STH 142	COUNTY: KENOSHA	PERMANENT SIGNING PLAN	SHEET 32	E

FILE NAME : C:\CIVIL 3D PROJECTS\38340600\SIGN\023201_PS_18.DWG
LAYOUT NAME - 023219_PS
PLOT DATE : 5/5/2020 9:51 AM PLOT BY : MARTENS, KAREN L PLOT NAME : PLOT SCALE : 1 IN:100 FT

WISDOT/CADDS SHEET 42

2

LEGEND

- EXISTING SIGN MOUNTED ON POST(S)
- EXISTING SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- PROPOSED SIGN MOUNTED ON POST(S)
- PROPOSED SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- VMS VARIABLE MESSAGE SIGN
- EXISTING LIGHT OR SIGNAL POLE
- SIGN BRIDGE
- CANTILEVER SIGN BRIDGE
- XXX DENOTES SIGN NUMBER
- ESTR EXISTING SIGN TO REMAIN

NOTE:
LOCATE NO PASSING PENNANTS BASED ON ESTABLISHING NO PASSING ZONES PAY ITEM.
PLACE SIGNS BASED ON WHERE THE PAVEMENT MARKING FOR NO PASSING ZONES BEGIN.

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SHEET 20 OF 43

PROJECT NO: 3834-06-70	HWY: STH 142	COUNTY: KENOSHA	PERMANENT SIGNING PLAN	SHEET 33	E

FILE NAME : C:\CIVIL 3D PROJECTS\38340600\SIGN\023201_PS_18.DWG
LAYOUT NAME - 023220_PS
PLOT DATE : 5/5/2020 9:51 AM PLOT BY : MARTENS, KAREN L PLOT NAME : PLOT SCALE : 1 IN:100 FT

WISDOT/CADDS SHEET 42

LEGEND

- EXISTING SIGN MOUNTED ON POST(S)
- EXISTING SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- PROPOSED SIGN MOUNTED ON POST(S)
- PROPOSED SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- VMS VARIABLE MESSAGE SIGN
- EXISTING LIGHT OR SIGNAL POLE
- SIGN BRIDGE
- CANTILEVER SIGN BRIDGE
- XXX DENOTES SIGN NUMBER
- ESTR EXISTING SIGN TO REMAIN

NOTE:
LOCATE NO PASSING PENNANTS BASED ON ESTABLISHING NO PASSING ZONES PAY ITEM.
PLACE SIGNS BASED ON WHERE THE PAVEMENT MARKING FOR NO PASSING ZONES BEGIN.

SHEET 21 OF 43

PROJECT NO: 3834-06-70	HWY: STH 142	COUNTY: KENOSHA	PERMANENT SIGNING PLAN	SHEET 34	E

FILE NAME : C:\CIVIL 3D PROJECTS\38340600\SIGN\023221_PS_18.DWG
LAYOUT NAME - 023221_PS
PLOT DATE : 5/5/2020 9:52 AM
PLOT BY : MARTENS, KAREN L
PLOT NAME :
PLOT SCALE : 1 IN:100 FT

2

LEGEND

- EXISTING SIGN MOUNTED ON POST(S)
- EXISTING SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- PROPOSED SIGN MOUNTED ON POST(S)
- PROPOSED SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- VMS VARIABLE MESSAGE SIGN
- EXISTING LIGHT OR SIGNAL POLE
- SIGN BRIDGE
- CANTILEVER SIGN BRIDGE
- XXX DENOTES SIGN NUMBER
- ESTR EXISTING SIGN TO REMAIN

NOTE:
LOCATE NO PASSING PENNANTS BASED ON ESTABLISHING NO PASSING ZONES PAY ITEM.
PLACE SIGNS BASED ON WHERE THE PAVEMENT MARKING FOR NO PASSING ZONES BEGIN.

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SHEET 22 OF 43

PROJECT NO: 3834-06-70	HWY: STH 142	COUNTY: KENOSHA	PERMANENT SIGNING PLAN	SHEET 35	E

FILE NAME : C:\CIVIL 3D PROJECTS\38340600\SIGN\023221_PS_18.DWG
LAYOUT NAME - 023222_PS
PLOT DATE : 5/5/2020 9:53 AM PLOT BY : MARTENS, KAREN L PLOT NAME : PLOT SCALE : 1 IN:100 FT

WISDOT/CADDS SHEET 42

2

LEGEND

- EXISTING SIGN MOUNTED ON POST(S)
- EXISTING SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- PROPOSED SIGN MOUNTED ON POST(S)
- PROPOSED SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- VMS VARIABLE MESSAGE SIGN
- EXISTING LIGHT OR SIGNAL POLE
- SIGN BRIDGE
- CANTILEVER SIGN BRIDGE
- XXX DENOTES SIGN NUMBER
- ESTR EXISTING SIGN TO REMAIN

NOTE:
LOCATE NO PASSING PENNANTS BASED ON ESTABLISHING NO PASSING ZONES PAY ITEM.
PLACE SIGNS BASED ON WHERE THE PAVEMENT MARKING FOR NO PASSING ZONES BEGIN.

2

SHEET 23 OF 43

PROJECT NO: 3834-06-70	HWY: STH 142	COUNTY: KENOSHA	PERMANENT SIGNING PLAN	SHEET 36	E

FILE NAME : C:\CIVIL 3D PROJECTS\38340600\SIGN\023221_PS_18.DWG
LAYOUT NAME - 023223_PS
PLOT DATE : 5/5/2020 9:54 AM PLOT BY : MARTENS, KAREN L PLOT NAME : PLOT SCALE : 1 IN:100 FT

WISDOT/CADDS SHEET 42

2

LEGEND

- EXISTING SIGN MOUNTED ON POST(S)
- EXISTING SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- PROPOSED SIGN MOUNTED ON POST(S)
- PROPOSED SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- VMS VARIABLE MESSAGE SIGN
- EXISTING LIGHT OR SIGNAL POLE
- SIGN BRIDGE
- CANTILEVER SIGN BRIDGE
- XXX DENOTES SIGN NUMBER
- ESTR EXISTING SIGN TO REMAIN

NOTE:
LOCATE NO PASSING PENNANTS BASED ON ESTABLISHING NO PASSING ZONES PAY ITEM.
PLACE SIGNS BASED ON WHERE THE PAVEMENT MARKING FOR NO PASSING ZONES BEGIN.

N

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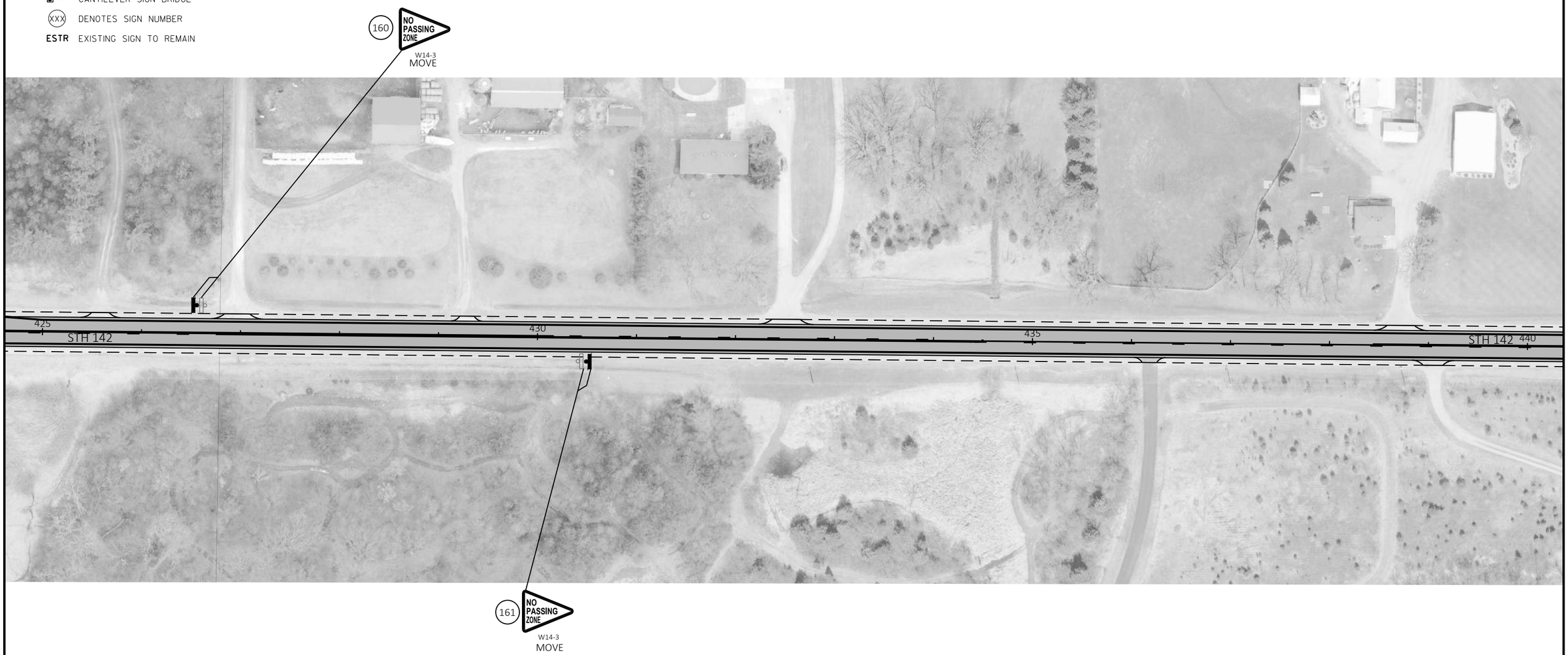


SHEET 24 OF 43

PROJECT NO: 3834-06-70	HWY: STH 142	COUNTY: KENOSHA	PERMANENT SIGNING PLAN	SHEET 37	E

FILE NAME : C:\CIVIL 3D PROJECTS\38340600\SIGN\023221_PS_18.DWG
LAYOUT NAME - 023224_PS
PLOT DATE : 5/5/2020 9:55 AM
PLOT BY : MARTENS, KAREN L
PLOT NAME :
PLOT SCALE : 1 IN:100 FT

WISDOT/CADDS SHEET 42

2

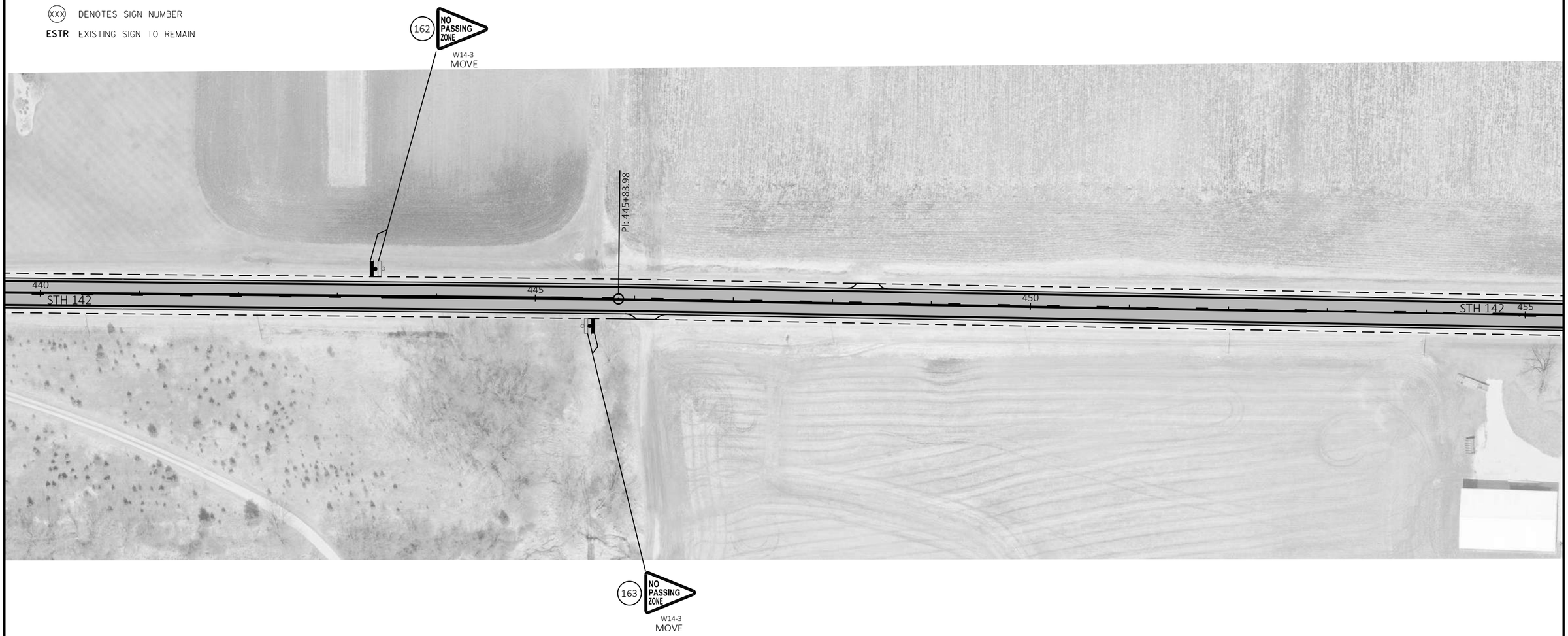
LEGEND

- EXISTING SIGN MOUNTED ON POST(S)
- EXISTING SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- PROPOSED SIGN MOUNTED ON POST(S)
- PROPOSED SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- VMS VARIABLE MESSAGE SIGN
- EXISTING LIGHT OR SIGNAL POLE
- SIGN BRIDGE
- CANTILEVER SIGN BRIDGE
- XXX DENOTES SIGN NUMBER
- ESTR EXISTING SIGN TO REMAIN

NOTE:
LOCATE NO PASSING PENNANTS BASED ON ESTABLISHING NO PASSING ZONES PAY ITEM.
PLACE SIGNS BASED ON WHERE THE PAVEMENT MARKING FOR NO PASSING ZONES BEGIN.

N

2



SHEET 25 OF 43

PROJECT NO: 3834-06-70	HWY: STH 142	COUNTY: KENOSHA	PERMANENT SIGNING PLAN	SHEET 38	E

FILE NAME : C:\CIVIL 3D PROJECTS\38340600\SIGN\023221_PS_18.DWG
LAYOUT NAME - 023225_PS
PLOT DATE : 5/5/2020 9:55 AM
PLOT BY : MARTENS, KAREN L
PLOT NAME :
PLOT SCALE : 1 IN:100 FT

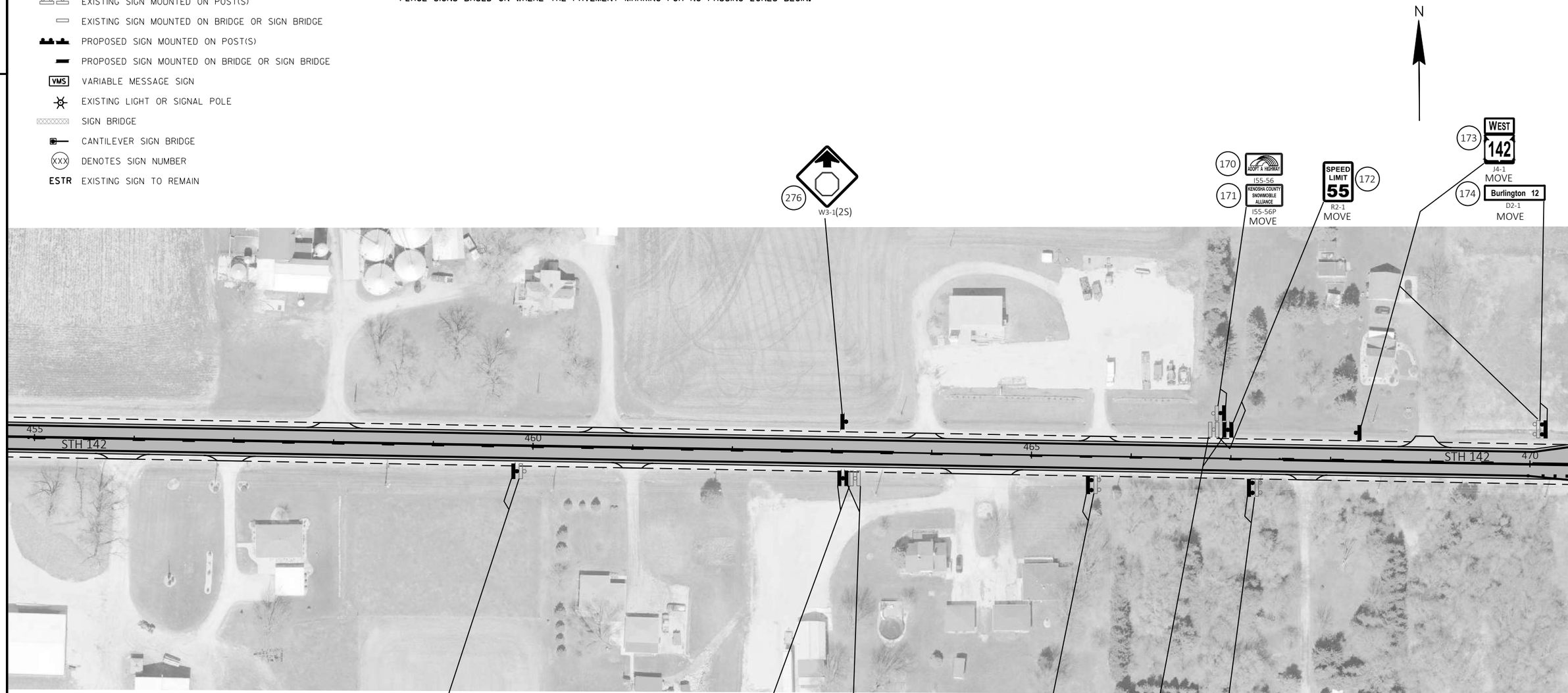
WISDOT/CADDS SHEET 42

2

LEGEND

- EXISTING SIGN MOUNTED ON POST(S)
- EXISTING SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- PROPOSED SIGN MOUNTED ON POST(S)
- PROPOSED SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- VMS VARIABLE MESSAGE SIGN
- EXISTING LIGHT OR SIGNAL POLE
- SIGN BRIDGE
- CANTILEVER SIGN BRIDGE
- XXX DENOTES SIGN NUMBER
- ESTR EXISTING SIGN TO REMAIN

NOTE:
LOCATE NO PASSING PENNANTS BASED ON ESTABLISHING NO PASSING ZONES PAY ITEM.
PLACE SIGNS BASED ON WHERE THE PAVEMENT MARKING FOR NO PASSING ZONES BEGIN.



SHEET 26 OF 43

PROJECT NO: 3834-06-70	HWY: STH 142	COUNTY: KENOSHA	PERMANENT SIGNING PLAN	SHEET 39	E

FILE NAME : C:\CIVIL 3D PROJECTS\38340600\SIGN\023221_PS_18.DWG
LAYOUT NAME - 023226_PS
PLOT DATE : 5/5/2020 9:55 AM
PLOT BY : MARTENS, KAREN L
PLOT NAME :
PLOT SCALE : 1 IN:100 FT
WISDOT/CADDS SHEET 42

2

LEGEND

- EXISTING SIGN MOUNTED ON POST(S)
- EXISTING SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- PROPOSED SIGN MOUNTED ON POST(S)
- PROPOSED SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- VMS VARIABLE MESSAGE SIGN
- EXISTING LIGHT OR SIGNAL POLE
- SIGN BRIDGE
- CANTILEVER SIGN BRIDGE
- XXX DENOTES SIGN NUMBER
- ESTR EXISTING SIGN TO REMAIN

NOTE:
LOCATE NO PASSING PENNANTS BASED ON ESTABLISHING NO PASSING ZONES PAY ITEM.
PLACE SIGNS BASED ON WHERE THE PAVEMENT MARKING FOR NO PASSING ZONES BEGIN.

SHEET 27 OF 43

PROJECT NO: 3834-06-70	HWY: STH 142	COUNTY: KENOSHA	PERMANENT SIGNING PLAN	SHEET 40	E

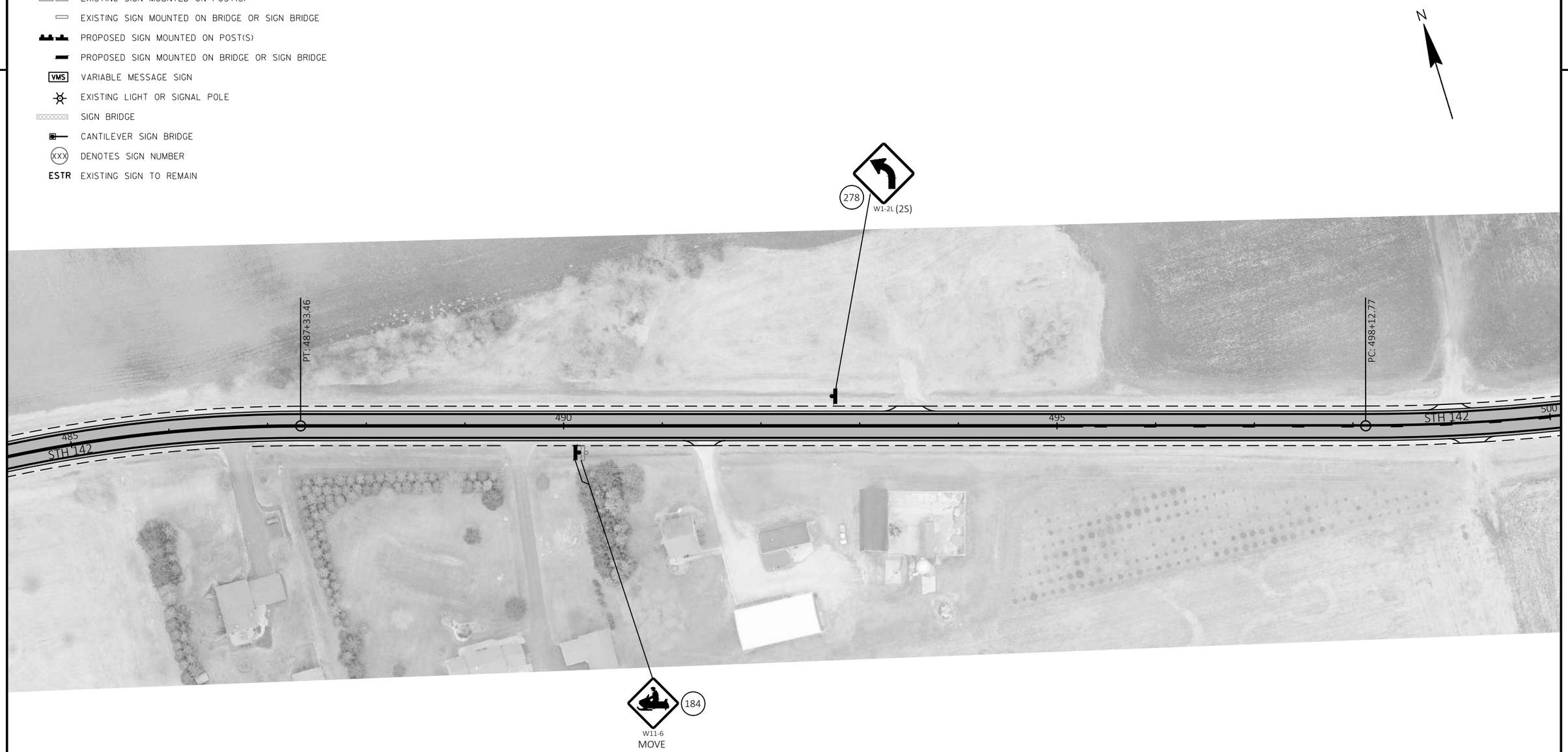
FILE NAME : C:\CIVIL 3D PROJECTS\38340600\SIGN\023221_PS_18.DWG
LAYOUT NAME - 023227_PS
PLOT DATE : 5/5/2020 9:55 AM
PLOT BY : MARTENS, KAREN L
PLOT NAME :
PLOT SCALE : 1 IN:100 FT
WISDOT/CADDS SHEET 42

2

LEGEND

- EXISTING SIGN MOUNTED ON POST(S)
- EXISTING SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- PROPOSED SIGN MOUNTED ON POST(S)
- PROPOSED SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- VMS VARIABLE MESSAGE SIGN
- EXISTING LIGHT OR SIGNAL POLE
- SIGN BRIDGE
- CANTILEVER SIGN BRIDGE
- XXX DENOTES SIGN NUMBER
- ESTR EXISTING SIGN TO REMAIN

NOTE:
LOCATE NO PASSING PENNANTS BASED ON ESTABLISHING NO PASSING ZONES PAY ITEM.
PLACE SIGNS BASED ON WHERE THE PAVEMENT MARKING FOR NO PASSING ZONES BEGIN.



SHEET 28 OF 43

PROJECT NO: 3834-06-70	HWY: STH 142	COUNTY: KENOSHA	PERMANENT SIGNING PLAN	SHEET 41	E

FILE NAME : C:\CIVIL 3D PROJECTS\38340600\SIGN\023221_PS_18.DWG
LAYOUT NAME - 023228_PS
PLOT DATE : 5/5/2020 9:56 AM PLOT BY : MARTENS, KAREN L PLOT NAME : PLOT SCALE : 1 IN:100 FT

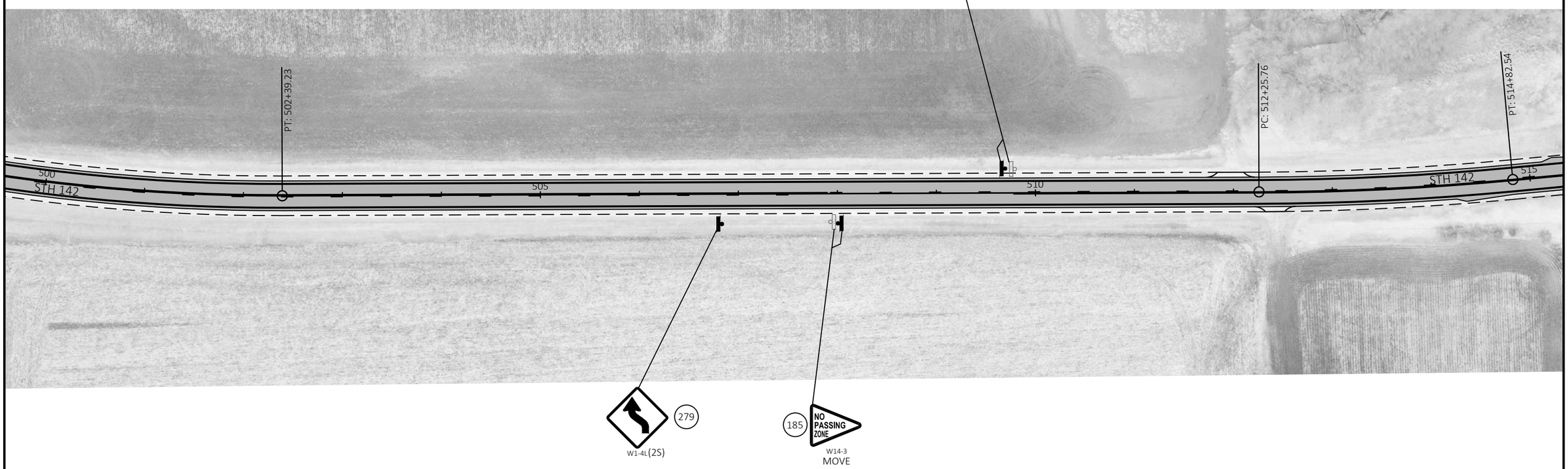
2

LEGEND

- EXISTING SIGN MOUNTED ON POST(S)
- EXISTING SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- PROPOSED SIGN MOUNTED ON POST(S)
- PROPOSED SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- VMS VARIABLE MESSAGE SIGN
- EXISTING LIGHT OR SIGNAL POLE
- SIGN BRIDGE
- CANTILEVER SIGN BRIDGE
- XXX DENOTES SIGN NUMBER
- ESTR EXISTING SIGN TO REMAIN

NOTE:
LOCATE NO PASSING PENNANTS BASED ON ESTABLISHING NO PASSING ZONES PAY ITEM.
PLACE SIGNS BASED ON WHERE THE PAVEMENT MARKING FOR NO PASSING ZONES BEGIN.

N



SHEET 29 OF 43

PROJECT NO: 3834-06-70	HWY: STH 142	COUNTY: KENOSHA	PERMANENT SIGNING PLAN	SHEET 42	E

FILE NAME : C:\CIVIL 3D PROJECTS\38340600\SIGN\023221_PS_18.DWG
LAYOUT NAME - 023229_PS
PLOT DATE : 5/5/2020 9:56 AM PLOT BY : MARTENS, KAREN L PLOT NAME : PLOT SCALE : 1 IN:100 FT

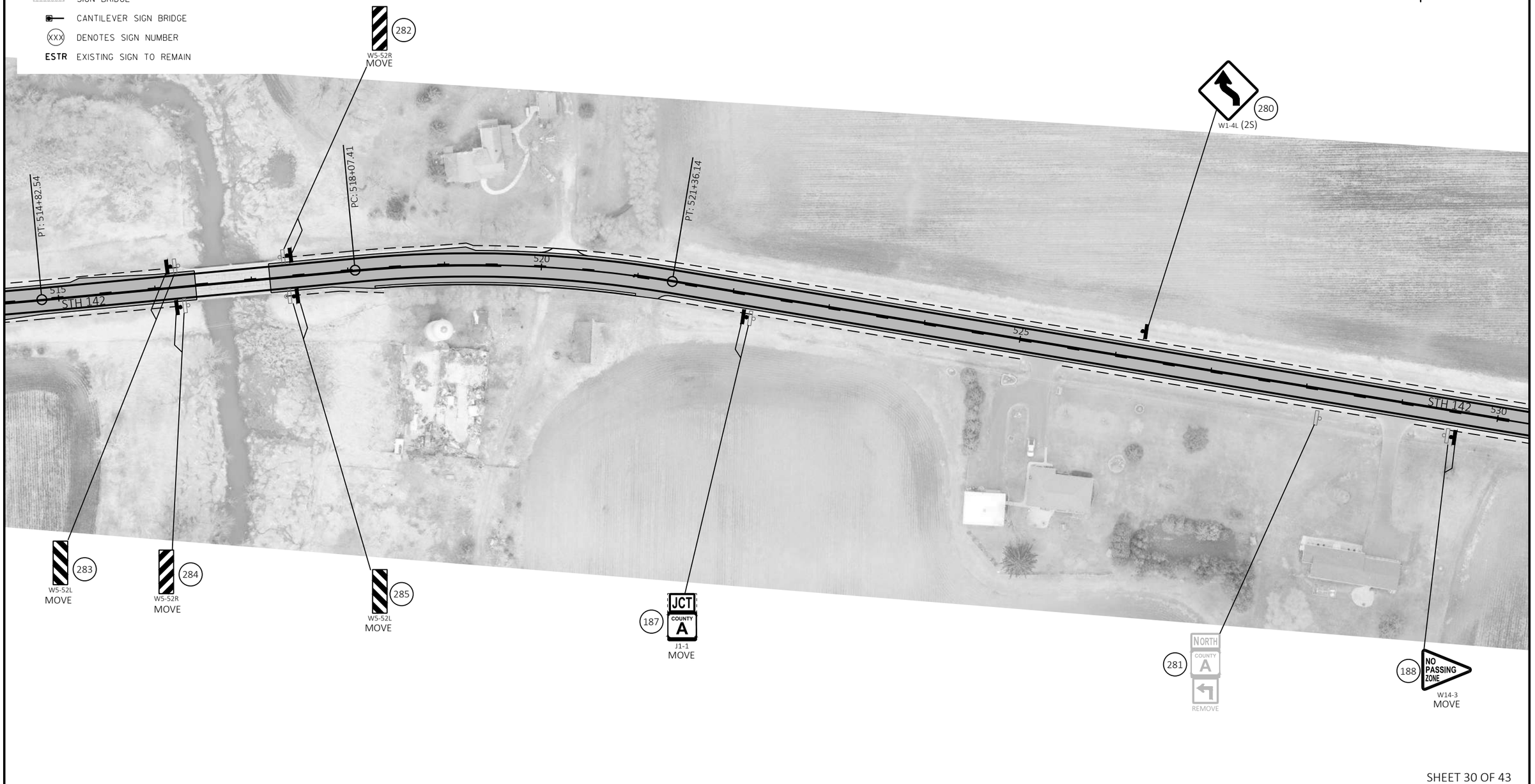
2

LEGEND

- EXISTING SIGN MOUNTED ON POST(S)
- EXISTING SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- PROPOSED SIGN MOUNTED ON POST(S)
- PROPOSED SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- VMS VARIABLE MESSAGE SIGN
- EXISTING LIGHT OR SIGNAL POLE
- SIGN BRIDGE
- CANTILEVER SIGN BRIDGE
- XXX DENOTES SIGN NUMBER
- ESTR EXISTING SIGN TO REMAIN

NOTE:
LOCATE NO PASSING PENNANTS BASED ON ESTABLISHING NO PASSING ZONES PAY ITEM.
PLACE SIGNS BASED ON WHERE THE PAVEMENT MARKING FOR NO PASSING ZONES BEGIN.

N



2

SHEET 30 OF 43

PROJECT NO: 3834-06-70	HWY: STH 142	COUNTY: KENOSHA	PERMANENT SIGNING PLAN	SHEET 43	E

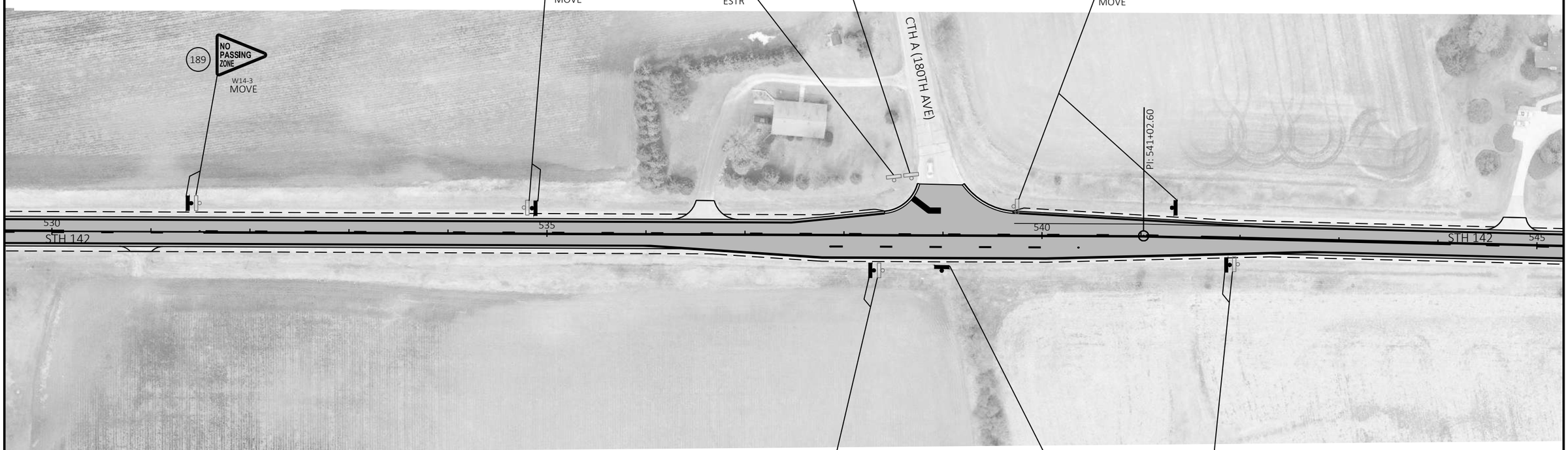
FILE NAME : C:\CIVIL 3D PROJECTS\38340600\SIGN\023221_PS_18.DWG
LAYOUT NAME - 023230_PS
PLOT DATE : 5/5/2020 9:57 AM
PLOT BY : MARTENS, KAREN L
PLOT NAME :
PLOT SCALE : 1 IN:100 FT

2

LEGEND

- EXISTING SIGN MOUNTED ON POST(S)
- EXISTING SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- PROPOSED SIGN MOUNTED ON POST(S)
- PROPOSED SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- VMS VARIABLE MESSAGE SIGN
- EXISTING LIGHT OR SIGNAL POLE
- SIGN BRIDGE
- CANTILEVER SIGN BRIDGE
- XXX DENOTES SIGN NUMBER
- ESTR EXISTING SIGN TO REMAIN

NOTE:
LOCATE NO PASSING PENNANTS BASED ON ESTABLISHING NO PASSING ZONES PAY ITEM.
PLACE SIGNS BASED ON WHERE THE PAVEMENT MARKING FOR NO PASSING ZONES BEGIN.



SHEET 31 OF 43

PROJECT NO: 3834-06-70	HWY: STH 142	COUNTY: KENOSHA	PERMANENT SIGNING PLAN	SHEET 44	E

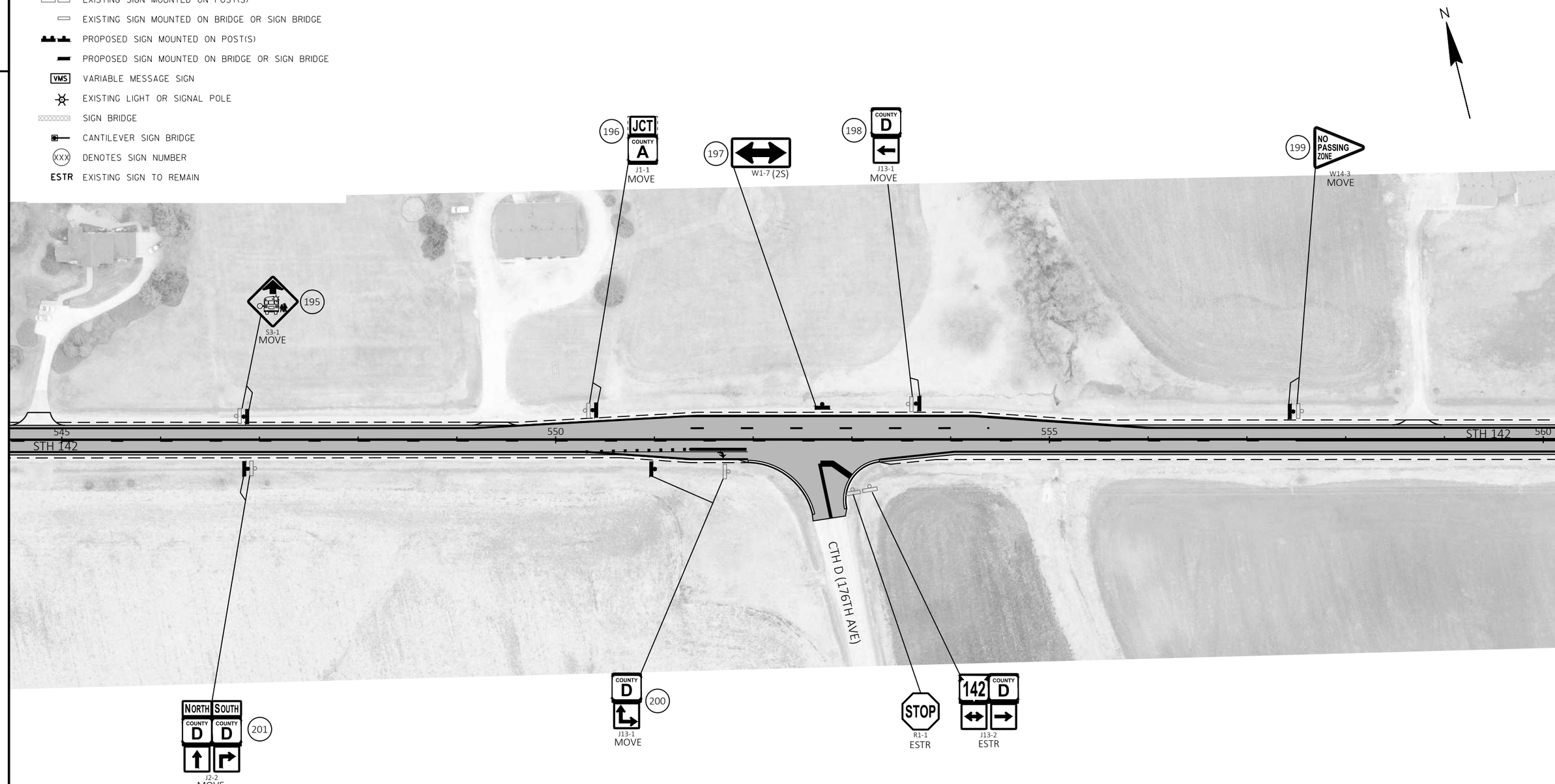
FILE NAME : C:\CIVIL 3D PROJECTS\38340600\SIGN\023221_PS_18.DWG
LAYOUT NAME - 023231_PS
PLOT DATE : 5/5/2020 9:57 AM PLOT BY : MARTENS, KAREN L PLOT NAME : PLOT SCALE : 1 IN:100 FT

2

LEGEND

- EXISTING SIGN MOUNTED ON POST(S)
- EXISTING SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- PROPOSED SIGN MOUNTED ON POST(S)
- PROPOSED SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- VMS VARIABLE MESSAGE SIGN
- EXISTING LIGHT OR SIGNAL POLE
- SIGN BRIDGE
- CANTILEVER SIGN BRIDGE
- XXX DENOTES SIGN NUMBER
- ESTR EXISTING SIGN TO REMAIN

NOTE:
LOCATE NO PASSING PENNANTS BASED ON ESTABLISHING NO PASSING ZONES PAY ITEM.
PLACE SIGNS BASED ON WHERE THE PAVEMENT MARKING FOR NO PASSING ZONES BEGIN.



2

SHEET 32 OF 43

PROJECT NO: 3834-06-70	HWY: STH 142	COUNTY: KENOSHA	PERMANENT SIGNING PLAN	SHEET 45	E

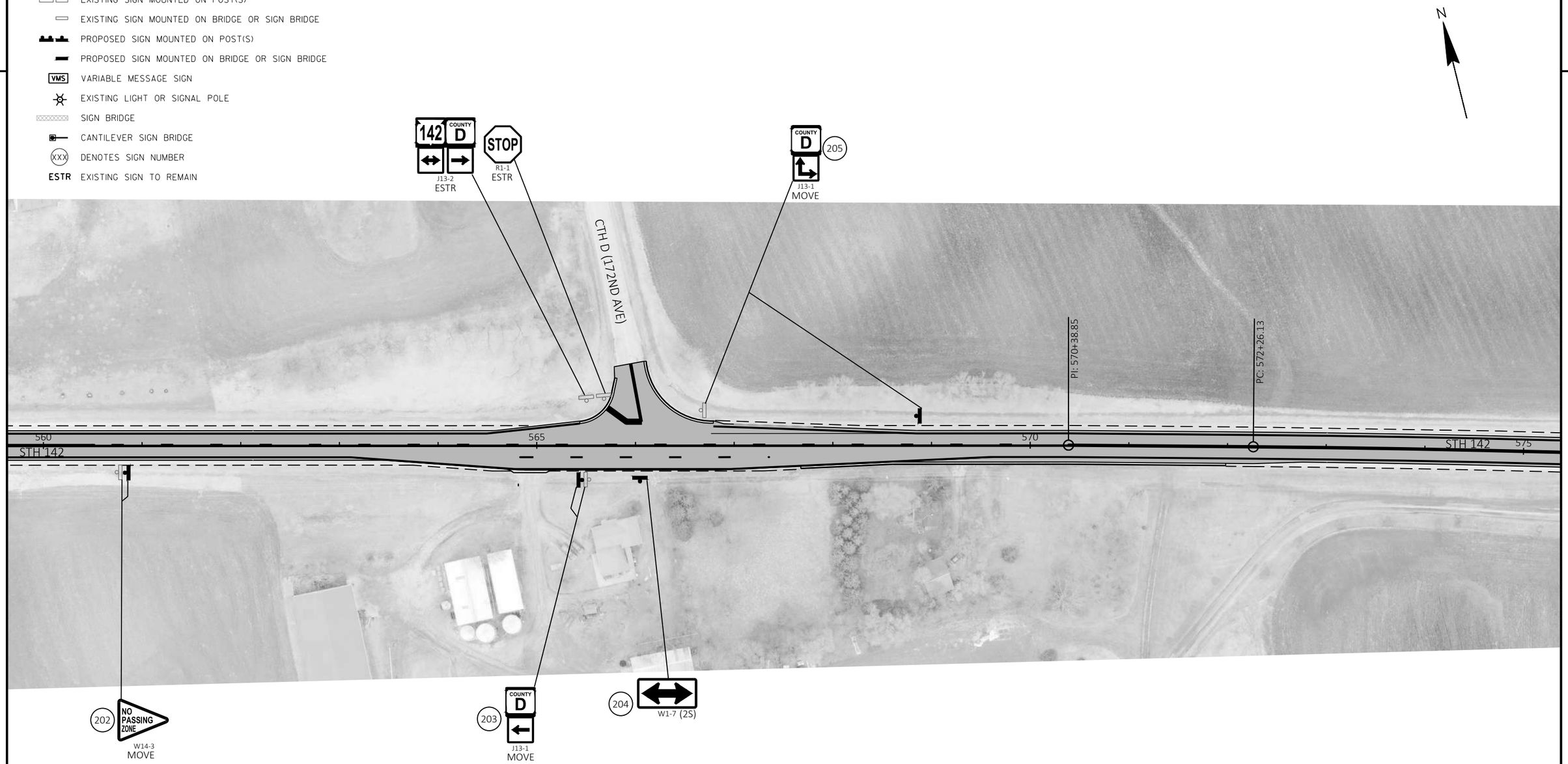
FILE NAME : C:\CIVIL 3D PROJECTS\38340600\SIGN\023221_PS_18.DWG
LAYOUT NAME - 023232_PS
PLOT DATE : 5/5/2020 9:57 AM
PLOT BY : MARTENS, KAREN L
PLOT NAME :
PLOT SCALE : 1 IN:100 FT
WISDOT/CADDS SHEET 42

2

LEGEND

- EXISTING SIGN MOUNTED ON POST(S)
- EXISTING SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- PROPOSED SIGN MOUNTED ON POST(S)
- PROPOSED SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- VMS VARIABLE MESSAGE SIGN
- EXISTING LIGHT OR SIGNAL POLE
- SIGN BRIDGE
- CANTILEVER SIGN BRIDGE
- XXX DENOTES SIGN NUMBER
- ESTR EXISTING SIGN TO REMAIN

NOTE:
LOCATE NO PASSING PENNANTS BASED ON ESTABLISHING NO PASSING ZONES PAY ITEM.
PLACE SIGNS BASED ON WHERE THE PAVEMENT MARKING FOR NO PASSING ZONES BEGIN.



2

SHEET 33 OF 43

PROJECT NO: 3834-06-70	HWY: STH 142	COUNTY: KENOSHA	PERMANENT SIGNING PLAN	SHEET 46	E

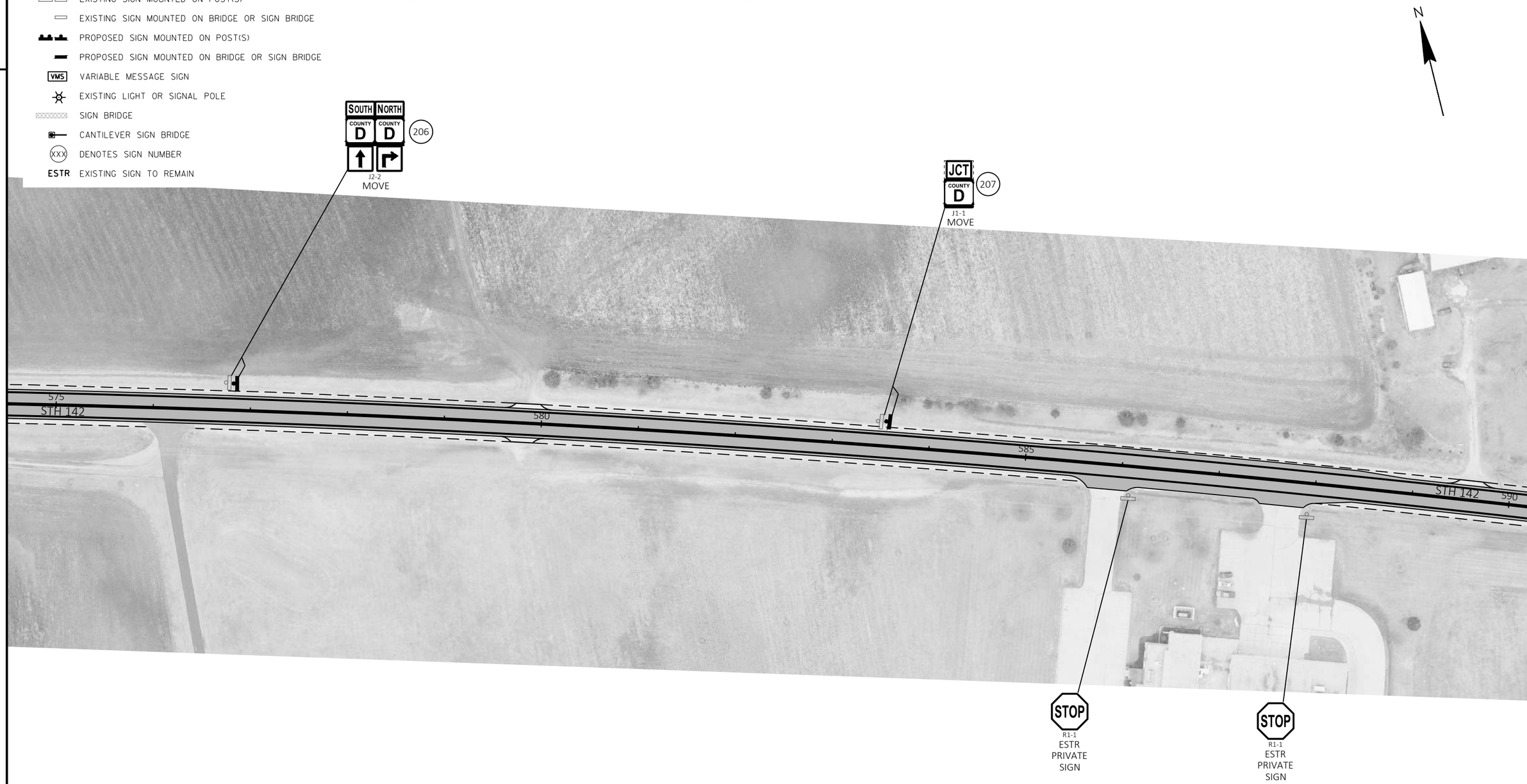
FILE NAME : C:\CIVIL 3D PROJECTS\38340600\SIGN\023221_PS_18.DWG
LAYOUT NAME - 023233_PS
PLOT DATE : 5/5/2020 9:57 AM
PLOT BY : MARTENS, KAREN L
PLOT NAME :
PLOT SCALE : 1 IN:100 FT

2

LEGEND

- EXISTING SIGN MOUNTED ON POST(S)
- EXISTING SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- PROPOSED SIGN MOUNTED ON POST(S)
- PROPOSED SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- VMS VARIABLE MESSAGE SIGN
- EXISTING LIGHT OR SIGNAL POLE
- SIGN BRIDGE
- CANTILEVER SIGN BRIDGE
- XXX DENOTES SIGN NUMBER
- ESTR EXISTING SIGN TO REMAIN

NOTE:
LOCATE NO PASSING PENNANTS BASED ON ESTABLISHING NO PASSING ZONES PAY ITEM.
PLACE SIGNS BASED ON WHERE THE PAVEMENT MARKING FOR NO PASSING ZONES BEGIN.



2

SHEET 34 OF 43

PROJECT NO: 3834-06-70	HWY: STH 142	COUNTY: KENOSHA	PERMANENT SIGNING PLAN	SHEET 47	E

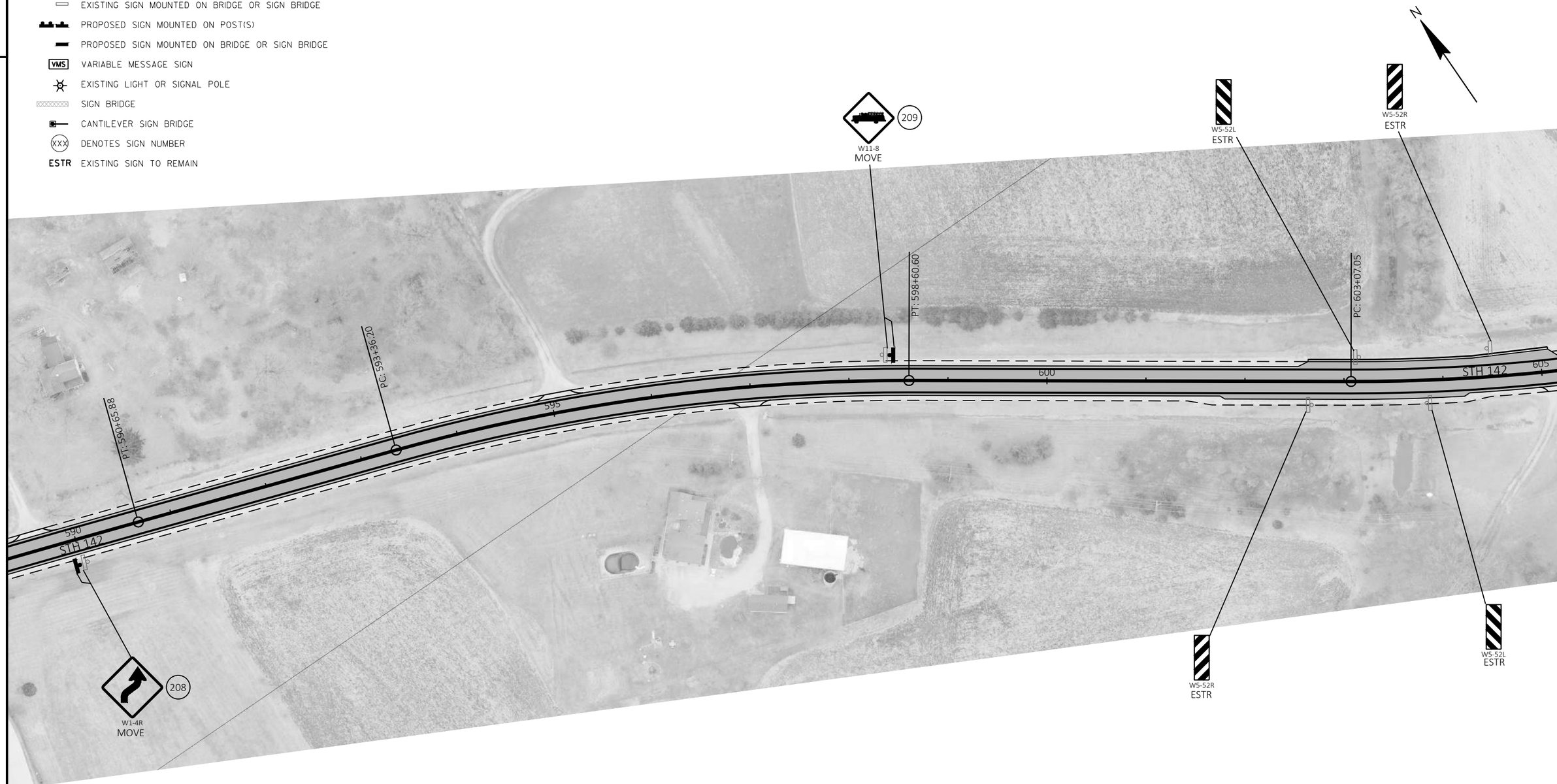
FILE NAME : C:\CIVIL 3D PROJECTS\38340600\SIGN\023221_PS_18.DWG
LAYOUT NAME - 023234_PS
PLOT DATE : 5/5/2020 9:58 AM
PLOT BY : MARTENS, KAREN L
PLOT NAME :
PLOT SCALE : 1 IN:100 FT
WISDOT/CADDS SHEET 42

2

LEGEND

- EXISTING SIGN MOUNTED ON POST(S)
- EXISTING SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- PROPOSED SIGN MOUNTED ON POST(S)
- PROPOSED SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- VMS VARIABLE MESSAGE SIGN
- EXISTING LIGHT OR SIGNAL POLE
- SIGN BRIDGE
- CANTILEVER SIGN BRIDGE
- XXX DENOTES SIGN NUMBER
- ESTR EXISTING SIGN TO REMAIN

NOTE:
LOCATE NO PASSING PENNANTS BASED ON ESTABLISHING NO PASSING ZONES PAY ITEM.
PLACE SIGNS BASED ON WHERE THE PAVEMENT MARKING FOR NO PASSING ZONES BEGIN.



2

SHEET 35 OF 43

PROJECT NO: 3834-06-70	HWY: STH 142	COUNTY: KENOSHA	PERMANENT SIGNING PLAN	SHEET 48	E

FILE NAME : C:\CIVIL 3D PROJECTS\38340600\SIGN\023221_PS_18.DWG
LAYOUT NAME - 023235_PS
PLOT DATE : 5/5/2020 10:00 AM PLOT BY : MARTENS, KAREN L PLOT NAME : PLOT SCALE : 1 IN:100 FT

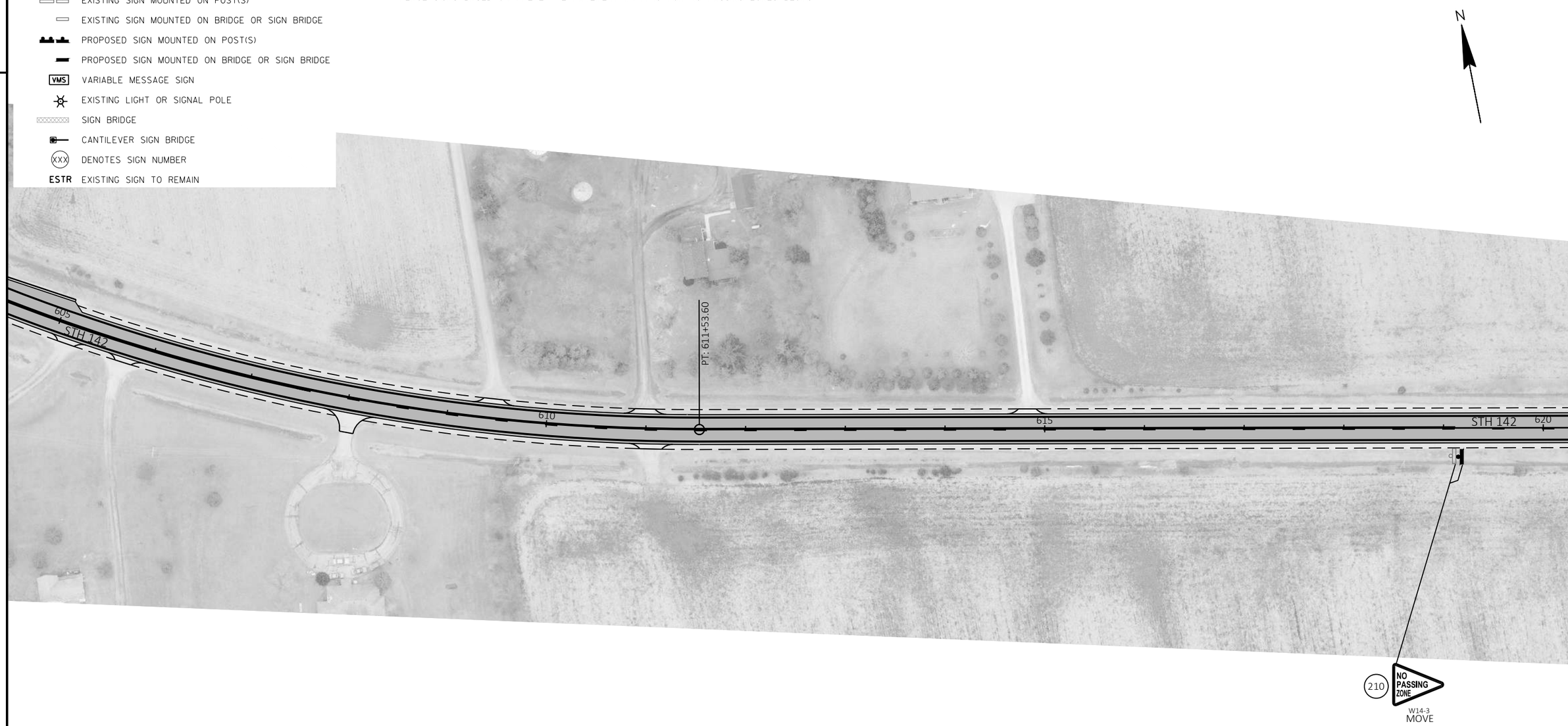
WISDOT/CADDS SHEET 42

2

LEGEND

- EXISTING SIGN MOUNTED ON POST(S)
- EXISTING SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- PROPOSED SIGN MOUNTED ON POST(S)
- PROPOSED SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- VMS VARIABLE MESSAGE SIGN
- EXISTING LIGHT OR SIGNAL POLE
- SIGN BRIDGE
- CANTILEVER SIGN BRIDGE
- XXX DENOTES SIGN NUMBER
- ESTR EXISTING SIGN TO REMAIN

NOTE:
LOCATE NO PASSING PENNANTS BASED ON ESTABLISHING NO PASSING ZONES PAY ITEM.
PLACE SIGNS BASED ON WHERE THE PAVEMENT MARKING FOR NO PASSING ZONES BEGIN.



2

SHEET 36 OF 43

PROJECT NO: 3834-06-70	HWY: STH 142	COUNTY: KENOSHA	PERMANENT SIGNING PLAN	SHEET 49	E

FILE NAME : C:\CIVIL 3D PROJECTS\38340600\SIGN\023221_PS_18.DWG
LAYOUT NAME - 023236_PS
PLOT DATE : 5/5/2020 10:02 AM
PLOT BY : MARTENS, KAREN L
PLOT NAME :
PLOT SCALE : 1 IN:100 FT
WISDOT/CADDS SHEET 42

2

LEGEND

- EXISTING SIGN MOUNTED ON POST(S)
- EXISTING SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- PROPOSED SIGN MOUNTED ON POST(S)
- PROPOSED SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- VMS VARIABLE MESSAGE SIGN
- EXISTING LIGHT OR SIGNAL POLE
- SIGN BRIDGE
- CANTILEVER SIGN BRIDGE
- XXX DENOTES SIGN NUMBER
- ESTR EXISTING SIGN TO REMAIN

NOTE:
LOCATE NO PASSING PENNANTS BASED ON ESTABLISHING NO PASSING ZONES PAY ITEM.
PLACE SIGNS BASED ON WHERE THE PAVEMENT MARKING FOR NO PASSING ZONES BEGIN.

SHEET 37 OF 43

PROJECT NO: 3834-06-70	HWY: STH 142	COUNTY: KENOSHA	PERMANENT SIGNING PLAN	SHEET 50	E

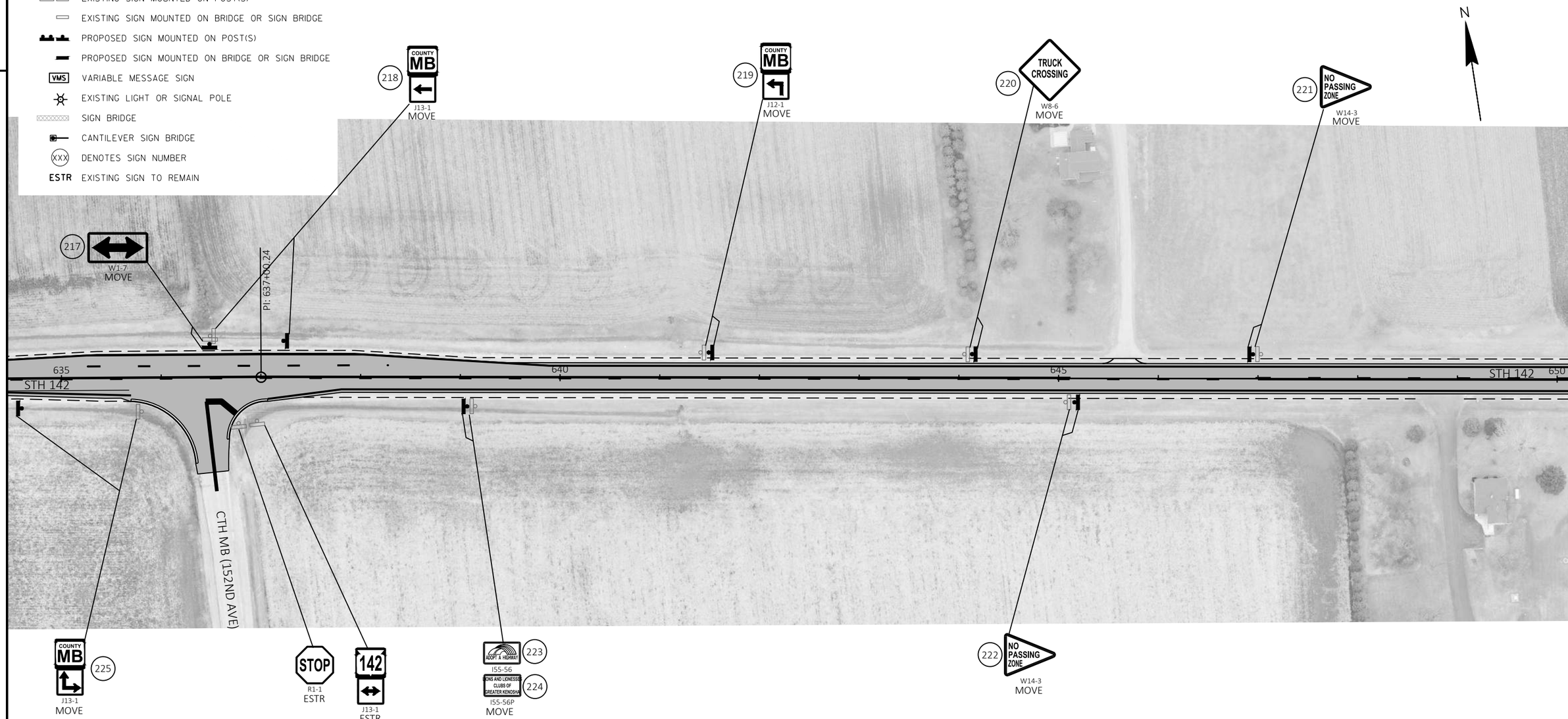
FILE NAME : C:\CIVIL 3D PROJECTS\38340600\SIGN\023221_PS_18.DWG
LAYOUT NAME - 023237_PS
PLOT DATE : 5/5/2020 10:05 AM PLOT BY : MARTENS, KAREN L PLOT NAME : PLOT SCALE : 1 IN:100 FT

WISDOT/CADDS SHEET 42

LEGEND

- EXISTING SIGN MOUNTED ON POST(S)
- EXISTING SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- PROPOSED SIGN MOUNTED ON POST(S)
- PROPOSED SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- VMS — VARIABLE MESSAGE SIGN
- EXISTING LIGHT OR SIGNAL POLE
- SIGN BRIDGE
- CANTILEVER SIGN BRIDGE
- XXX — DENOTES SIGN NUMBER
- ESTR — EXISTING SIGN TO REMAIN

NOTE:
LOCATE NO PASSING PENNANTS BASED ON ESTABLISHING NO PASSING ZONES PAY ITEM.
PLACE SIGNS BASED ON WHERE THE PAVEMENT MARKING FOR NO PASSING ZONES BEGIN.



SHEET 38 OF 43

PROJECT NO: 3834-06-70	HWY: STH 142	COUNTY: KENOSHA	PERMANENT SIGNING PLAN	SHEET 51	E

FILE NAME : C:\CIVIL 3D PROJECTS\38340600\SIGN\023221_PS_18.DWG
LAYOUT NAME - 023238_PS
PLOT DATE : 5/5/2020 10:07 AM
PLOT BY : MARTENS, KAREN L
PLOT NAME :
PLOT SCALE : 1 IN:100 FT
WISDOT/CADDS SHEET 42

2

LEGEND

- EXISTING SIGN MOUNTED ON POST(S)
- EXISTING SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- PROPOSED SIGN MOUNTED ON POST(S)
- PROPOSED SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- VMS VARIABLE MESSAGE SIGN
- EXISTING LIGHT OR SIGNAL POLE
- SIGN BRIDGE
- CANTILEVER SIGN BRIDGE
- XXX DENOTES SIGN NUMBER
- ESTR EXISTING SIGN TO REMAIN

NOTE:
LOCATE NO PASSING PENNANTS BASED ON ESTABLISHING NO PASSING ZONES PAY ITEM.
PLACE SIGNS BASED ON WHERE THE PAVEMENT MARKING FOR NO PASSING ZONES BEGIN.

N

2

SHEET 39 OF 43

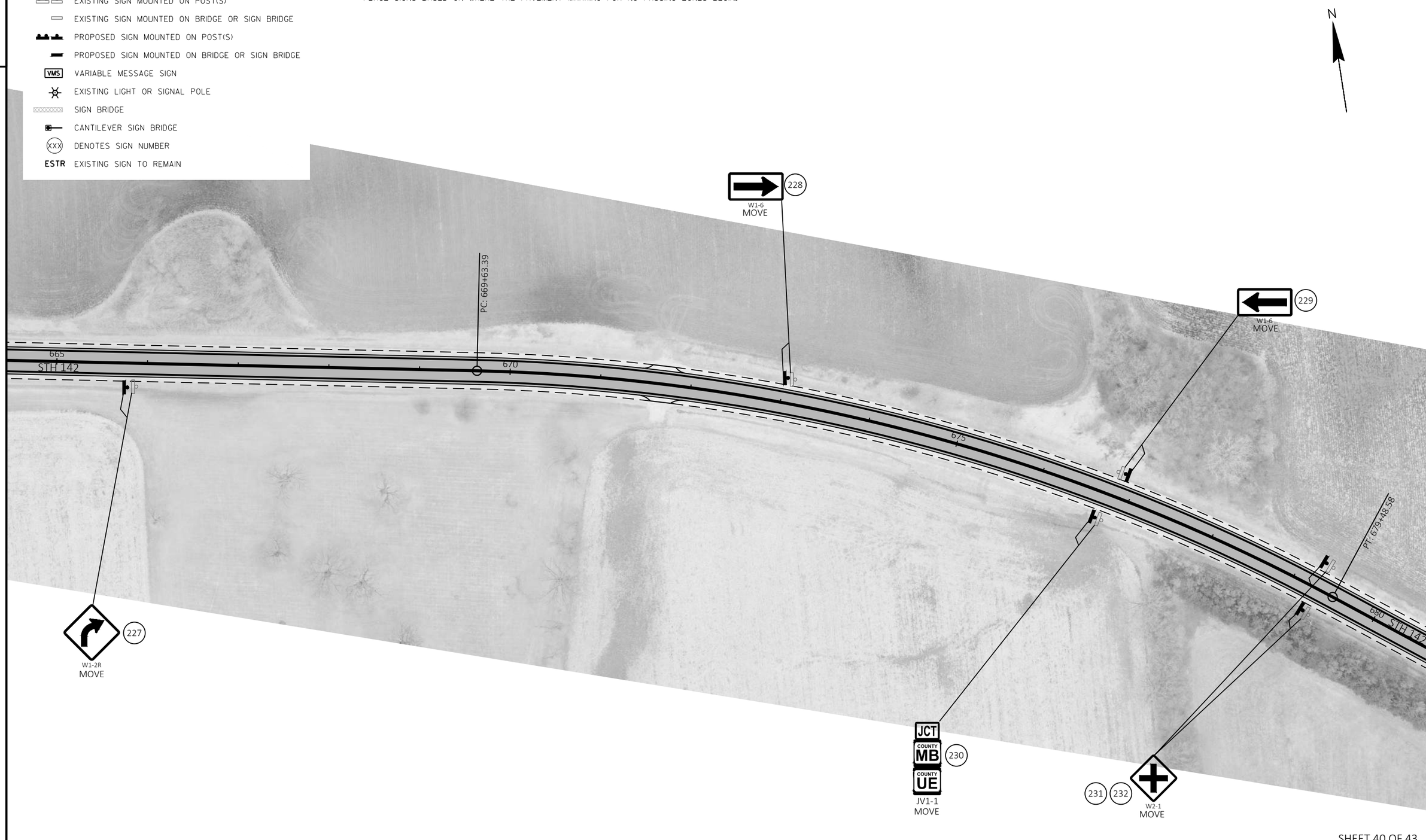
PROJECT NO: 3834-06-70	HWY: STH 142	COUNTY: KENOSHA	PERMANENT SIGNING PLAN	SHEET 52	E

FILE NAME : C:\CIVIL 3D PROJECTS\38340600\SIGN\023221_PS_18.DWG
LAYOUT NAME - 023239_PS
PLOT DATE : 5/5/2020 10:08 AM PLOT BY : MARTENS, KAREN L PLOT NAME : PLOT SCALE : 1 IN:100 FT

LEGEND

- EXISTING SIGN MOUNTED ON POST(S)
- EXISTING SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- PROPOSED SIGN MOUNTED ON POST(S)
- PROPOSED SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- VMS VARIABLE MESSAGE SIGN
- EXISTING LIGHT OR SIGNAL POLE
- SIGN BRIDGE
- CANTILEVER SIGN BRIDGE
- XXX DENOTES SIGN NUMBER
- ESTR EXISTING SIGN TO REMAIN

NOTE:
LOCATE NO PASSING PENNANTS BASED ON ESTABLISHING NO PASSING ZONES PAY ITEM.
PLACE SIGNS BASED ON WHERE THE PAVEMENT MARKING FOR NO PASSING ZONES BEGIN.



SHEET 40 OF 43

PROJECT NO: 3834-06-70	HWY: STH 142	COUNTY: KENOSHA	PERMANENT SIGNING PLAN	SHEET 53	E

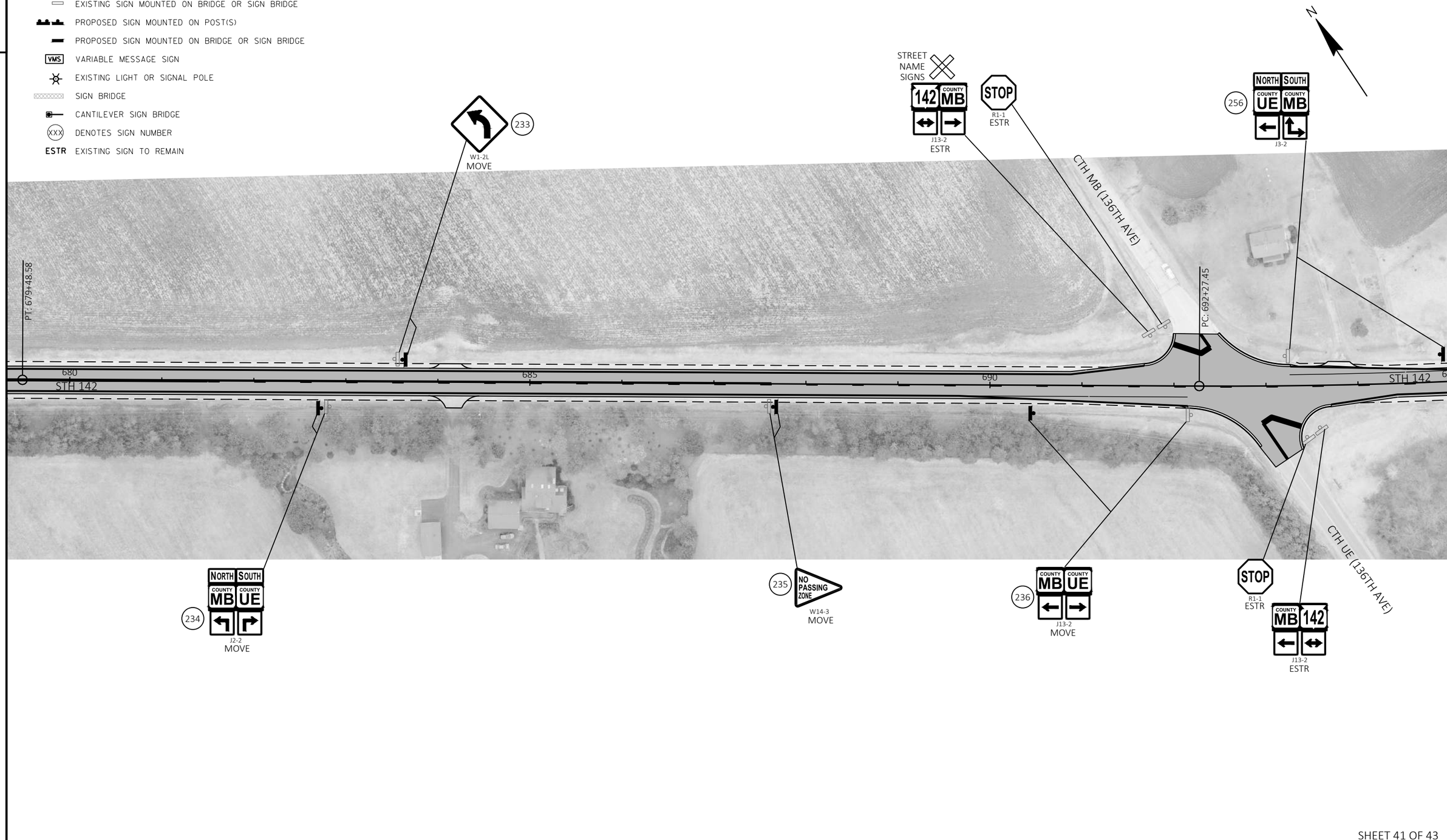
FILE NAME : C:\CIVIL 3D PROJECTS\38340600\SIGN\023221_PS_18.DWG
LAYOUT NAME - 023240_PS
PLOT DATE : 5/5/2020 10:09 AM
PLOT BY : MARTENS, KAREN L
PLOT NAME :
PLOT SCALE : 1 IN:100 FT

2

LEGEND

- EXISTING SIGN MOUNTED ON POST(S)
- EXISTING SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- PROPOSED SIGN MOUNTED ON POST(S)
- PROPOSED SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- VMS VARIABLE MESSAGE SIGN
- EXISTING LIGHT OR SIGNAL POLE
- SIGN BRIDGE
- CANTILEVER SIGN BRIDGE
- XXX DENOTES SIGN NUMBER
- ESTR EXISTING SIGN TO REMAIN

NOTE:
LOCATE NO PASSING PENNANTS BASED ON ESTABLISHING NO PASSING ZONES PAY ITEM.
PLACE SIGNS BASED ON WHERE THE PAVEMENT MARKING FOR NO PASSING ZONES BEGIN.



SHEET 41 OF 43

PROJECT NO: 3834-06-70	HWY: STH 142	COUNTY: KENOSHA	PERMANENT SIGNING PLAN	SHEET 54	E

FILE NAME : C:\CIVIL 3D PROJECTS\38340600\SIGN\023241_PS_18.DWG
LAYOUT NAME - 023241_PS
PLOT DATE : 5/5/2020 10:10 AM PLOT BY : MARTENS, KAREN L PLOT NAME : PLOT SCALE : 1 IN:100 FT

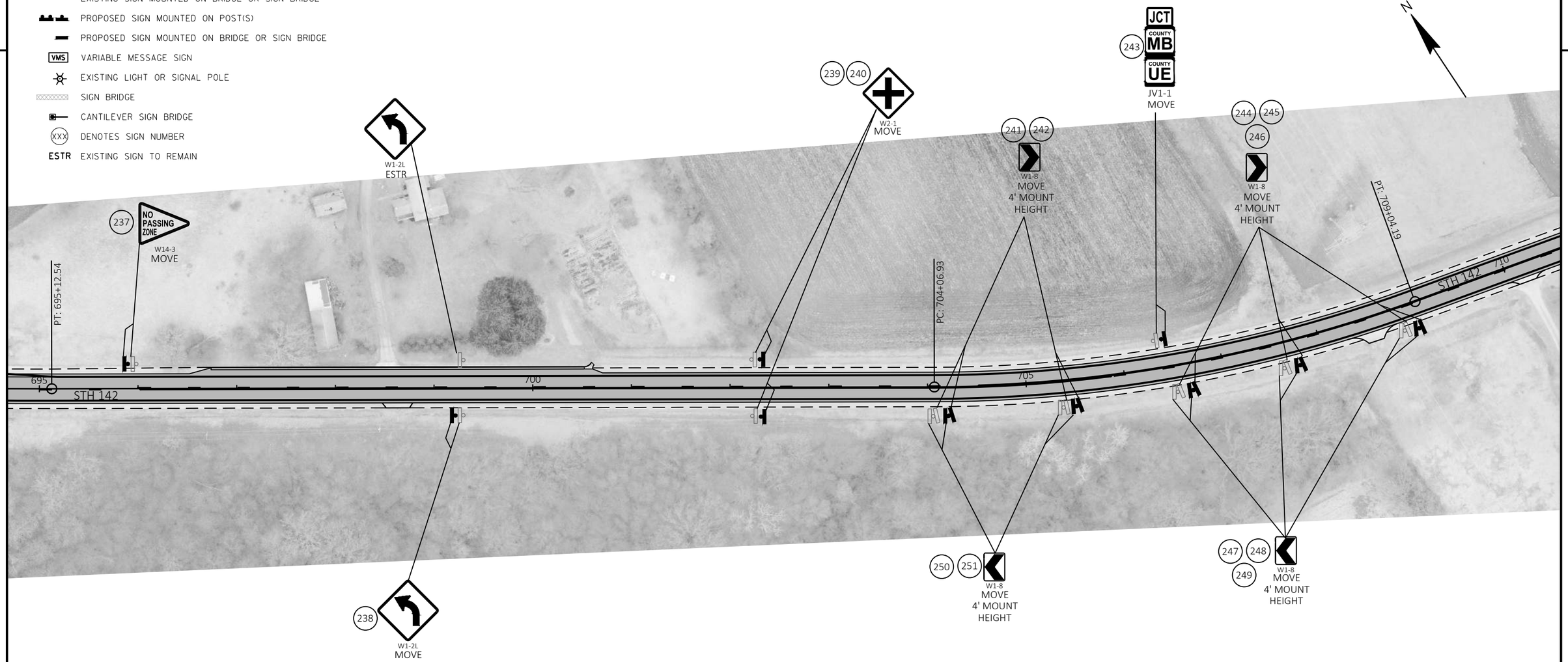
WISDOT/CADDS SHEET 42

2

LEGEND

- EXISTING SIGN MOUNTED ON POST(S)
- EXISTING SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- PROPOSED SIGN MOUNTED ON POST(S)
- PROPOSED SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- VMS VARIABLE MESSAGE SIGN
- EXISTING LIGHT OR SIGNAL POLE
- SIGN BRIDGE
- CANTILEVER SIGN BRIDGE
- XXX DENOTES SIGN NUMBER
- ESTR EXISTING SIGN TO REMAIN

NOTE:
LOCATE NO PASSING PENNANTS BASED ON ESTABLISHING NO PASSING ZONES PAY ITEM.
PLACE SIGNS BASED ON WHERE THE PAVEMENT MARKING FOR NO PASSING ZONES BEGIN.



SHEET 42 OF 43

PROJECT NO: 3834-06-70	HWY: STH 142	COUNTY: KENOSHA	PERMANENT SIGNING PLAN	SHEET 55	E

FILE NAME : C:\CIVIL 3D PROJECTS\38340600\SIGN\023241_PS_18.DWG
LAYOUT NAME - 023242_PS
PLOT DATE : 5/5/2020 10:11 AM
PLOT BY : MARTENS, KAREN L
PLOT NAME :
PLOT SCALE : 1 IN:100 FT
WISDOT/CADDS SHEET 42

2

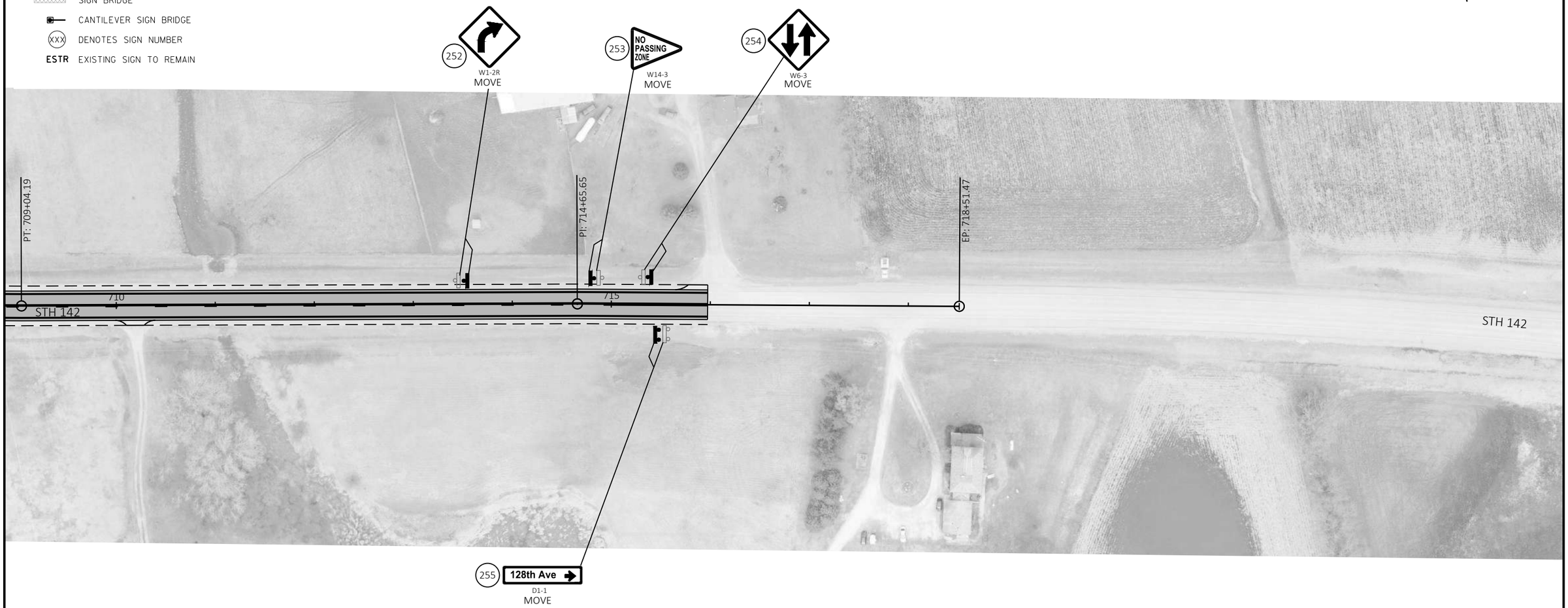
2

LEGEND

- EXISTING SIGN MOUNTED ON POST(S)
- EXISTING SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- PROPOSED SIGN MOUNTED ON POST(S)
- PROPOSED SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- VMS VARIABLE MESSAGE SIGN
- EXISTING LIGHT OR SIGNAL POLE
- SIGN BRIDGE
- CANTILEVER SIGN BRIDGE
- XXX DENOTES SIGN NUMBER
- ESTR EXISTING SIGN TO REMAIN

NOTE:
LOCATE NO PASSING PENNANTS BASED ON ESTABLISHING NO PASSING ZONES PAY ITEM.
PLACE SIGNS BASED ON WHERE THE PAVEMENT MARKING FOR NO PASSING ZONES BEGIN.

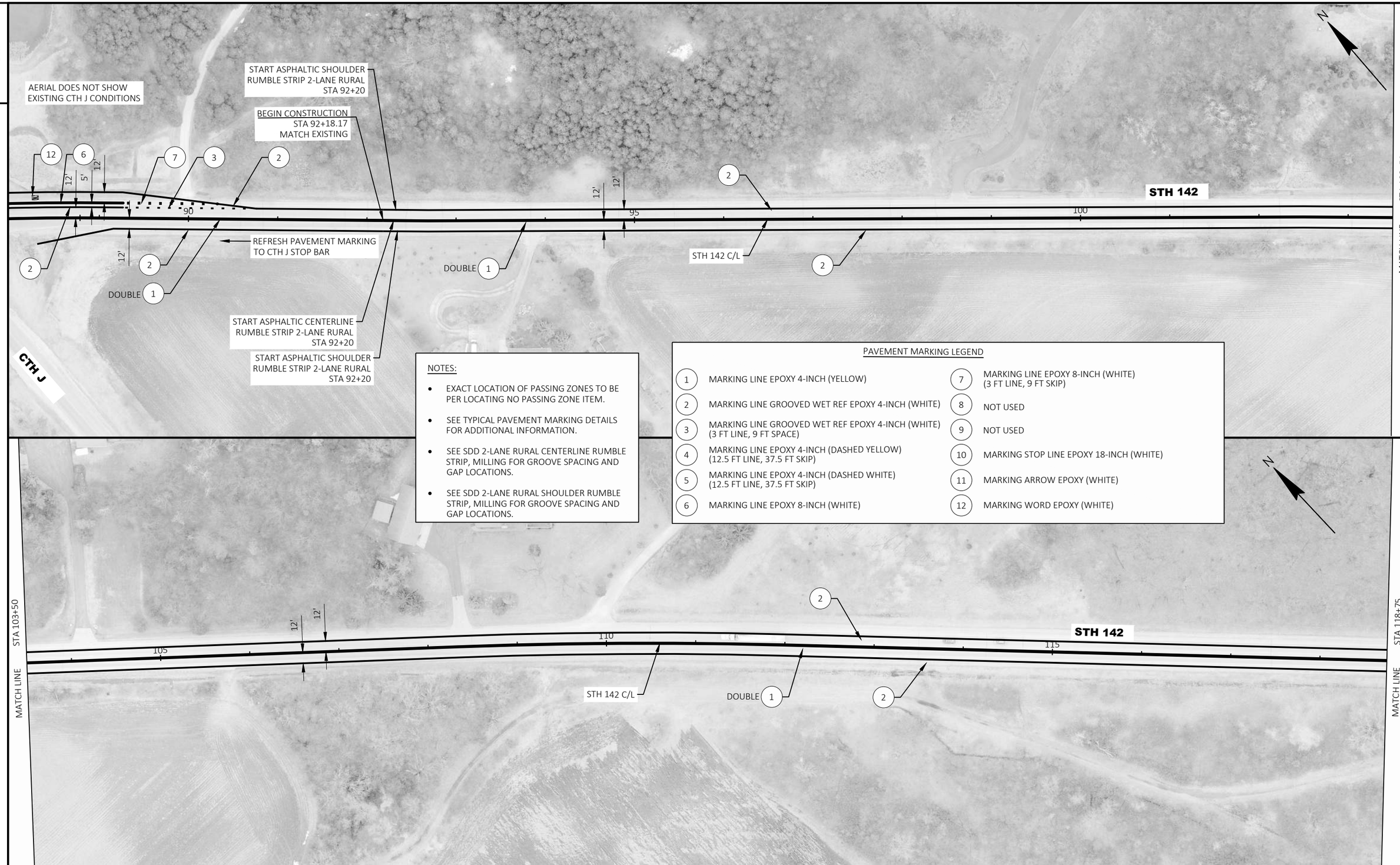
N



SHEET 43 OF 43

PROJECT NO: 3834-06-70	HWY: STH 142	COUNTY: KENOSHA	PERMANENT SIGNING PLAN	SHEET 56	E

FILE NAME : C:\CIVIL 3D PROJECTS\38340600\SIGN\023241_PS_18.DWG
LAYOUT NAME - 023243_PS
PLOT DATE : 5/5/2020 10:11 AM
PLOT BY : MARTENS, KAREN L
PLOT NAME :
PLOT SCALE : 1 IN:100 FT
WISDOT/CADDS SHEET 42

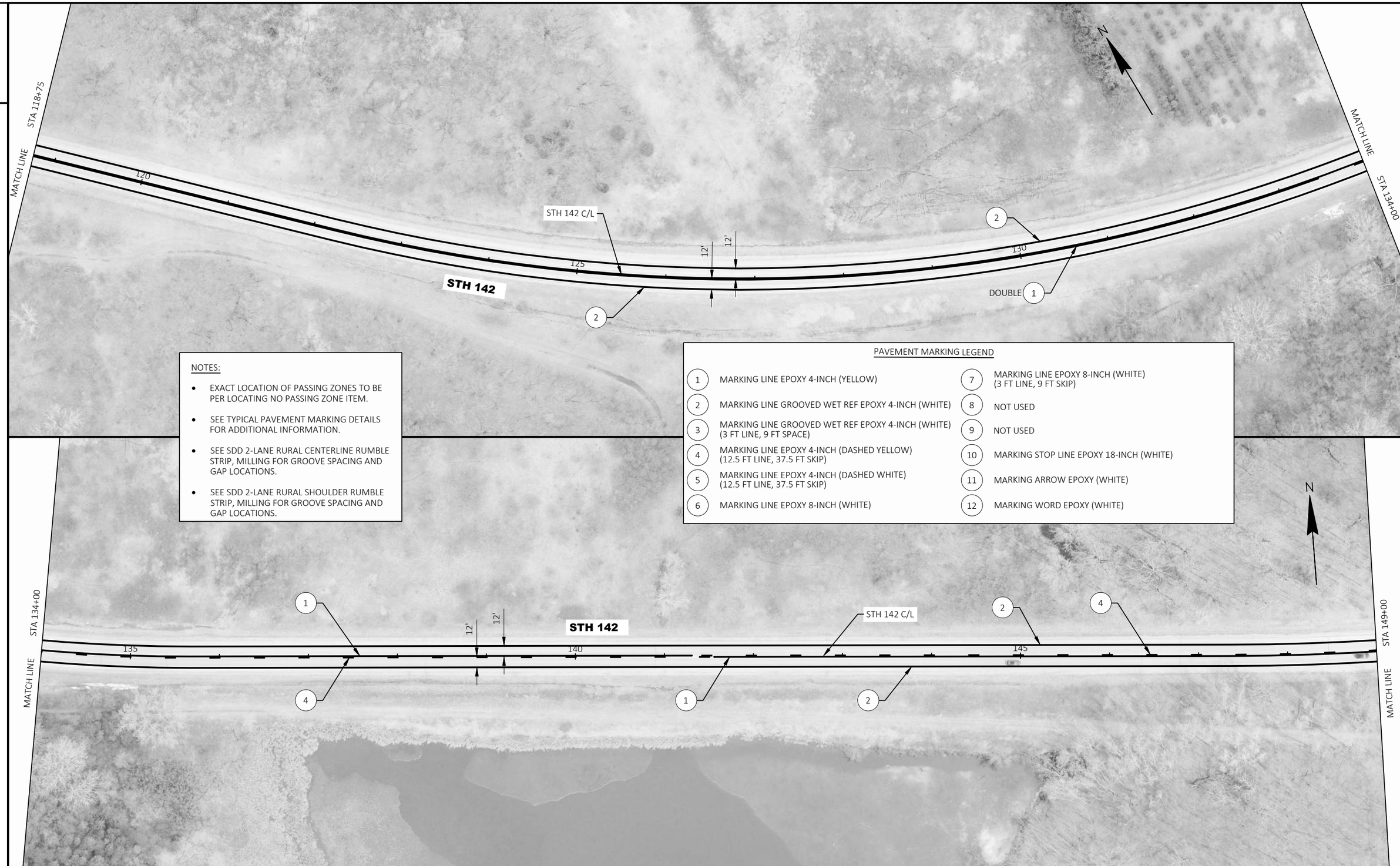


NOTES:

- EXACT LOCATION OF PASSING ZONES TO BE PER LOCATING NO PASSING ZONE ITEM.
- SEE TYPICAL PAVEMENT MARKING DETAILS FOR ADDITIONAL INFORMATION.
- SEE SDD 2-LANE RURAL CENTERLINE RUMBLE STRIP, MILLING FOR GROOVE SPACING AND GAP LOCATIONS.
- SEE SDD 2-LANE RURAL SHOULDER RUMBLE STRIP, MILLING FOR GROOVE SPACING AND GAP LOCATIONS.

PAVEMENT MARKING LEGEND

1	MARKING LINE EPOXY 4-INCH (YELLOW)	7	MARKING LINE EPOXY 8-INCH (WHITE) (3 FT LINE, 9 FT SKIP)
2	MARKING LINE GROOVED WET REF EPOXY 4-INCH (WHITE)	8	NOT USED
3	MARKING LINE GROOVED WET REF EPOXY 4-INCH (WHITE) (3 FT LINE, 9 FT SPACE)	9	NOT USED
4	MARKING LINE EPOXY 4-INCH (DASHED YELLOW) (12.5 FT LINE, 37.5 FT SKIP)	10	MARKING STOP LINE EPOXY 18-INCH (WHITE)
5	MARKING LINE EPOXY 4-INCH (DASHED WHITE) (12.5 FT LINE, 37.5 FT SKIP)	11	MARKING ARROW EPOXY (WHITE)
6	MARKING LINE EPOXY 8-INCH (WHITE)	12	MARKING WORD EPOXY (WHITE)



NOTES:

- EXACT LOCATION OF PASSING ZONES TO BE PER LOCATING NO PASSING ZONE ITEM.
- SEE TYPICAL PAVEMENT MARKING DETAILS FOR ADDITIONAL INFORMATION.
- SEE SDD 2-LANE RURAL CENTERLINE RUMBLE STRIP, MILLING FOR GROOVE SPACING AND GAP LOCATIONS.
- SEE SDD 2-LANE RURAL SHOULDER RUMBLE STRIP, MILLING FOR GROOVE SPACING AND GAP LOCATIONS.

PAVEMENT MARKING LEGEND

1	MARKING LINE EPOXY 4-INCH (YELLOW)	7	MARKING LINE EPOXY 8-INCH (WHITE) (3 FT LINE, 9 FT SKIP)
2	MARKING LINE GROOVED WET REF EPOXY 4-INCH (WHITE)	8	NOT USED
3	MARKING LINE GROOVED WET REF EPOXY 4-INCH (WHITE) (3 FT LINE, 9 FT SPACE)	9	NOT USED
4	MARKING LINE EPOXY 4-INCH (DASHED YELLOW) (12.5 FT LINE, 37.5 FT SKIP)	10	MARKING STOP LINE EPOXY 18-INCH (WHITE)
5	MARKING LINE EPOXY 4-INCH (DASHED WHITE) (12.5 FT LINE, 37.5 FT SKIP)	11	MARKING ARROW EPOXY (WHITE)
6	MARKING LINE EPOXY 8-INCH (WHITE)	12	MARKING WORD EPOXY (WHITE)

PROJECT NO: 3834-06-70	HWY: STH 142	COUNTY: KENOSHA	PAVEMENT MARKING	SHEET 58	E

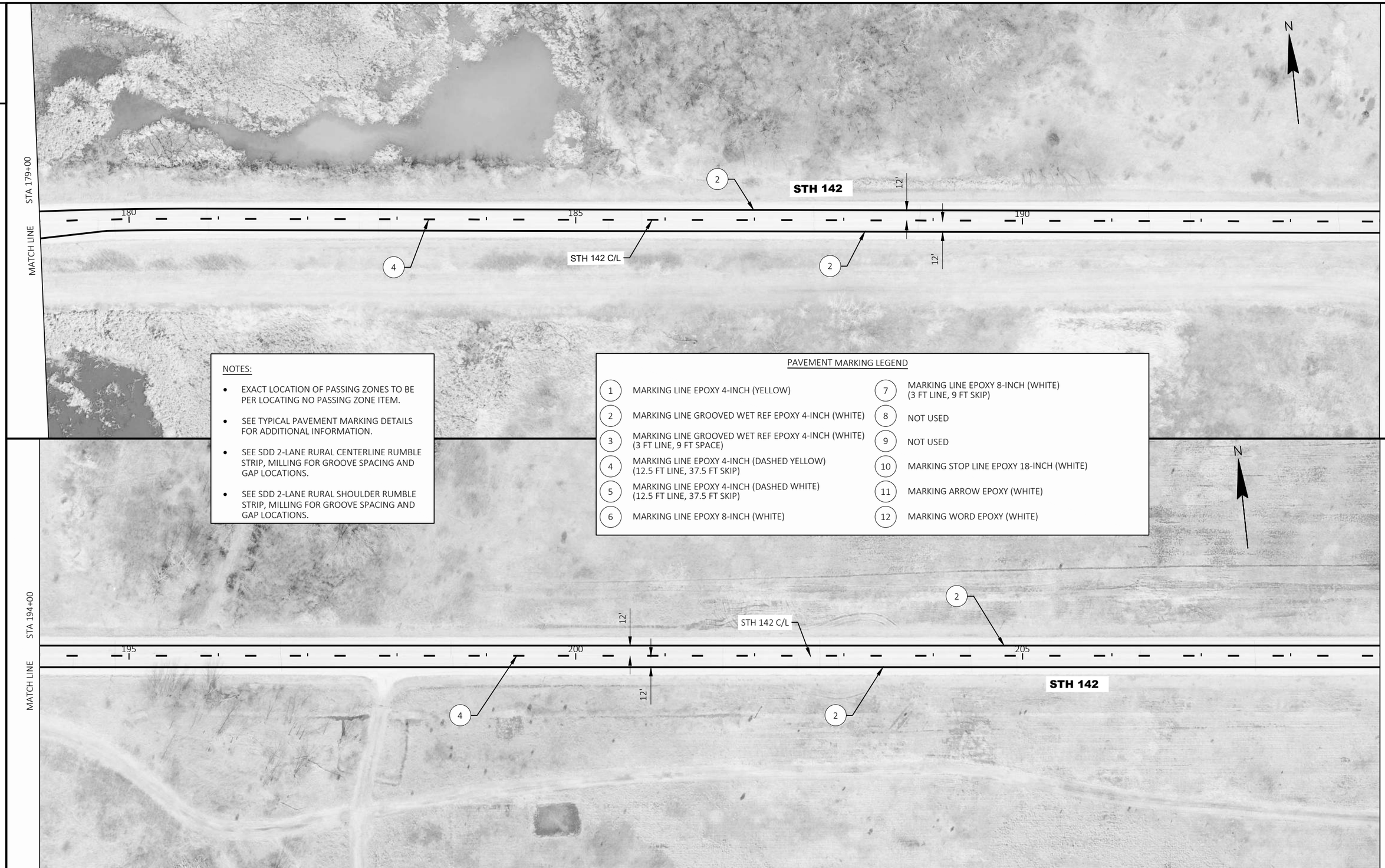
NOTES:

- EXACT LOCATION OF PASSING ZONES TO BE PER LOCATING NO PASSING ZONE ITEM.
- SEE TYPICAL PAVEMENT MARKING DETAILS FOR ADDITIONAL INFORMATION.
- SEE SDD 2-LANE RURAL CENTERLINE RUMBLE STRIP, MILLING FOR GROOVE SPACING AND GAP LOCATIONS.
- SEE SDD 2-LANE RURAL SHOULDER RUMBLE STRIP, MILLING FOR GROOVE SPACING AND GAP LOCATIONS.

PAVEMENT MARKING LEGEND

1. MARKING LINE EPOXY 4-INCH (YELLOW)
2. MARKING LINE GROOVED WET REF EPOXY 4-INCH (WHITE)
3. MARKING LINE GROOVED WET REF EPOXY 4-INCH (WHITE) (3 FT LINE, 9 FT SPACE)
4. MARKING LINE EPOXY 4-INCH (DASHED YELLOW) (12.5 FT LINE, 37.5 FT SKIP)
5. MARKING LINE EPOXY 4-INCH (DASHED WHITE) (12.5 FT LINE, 37.5 FT SKIP)
6. MARKING LINE EPOXY 8-INCH (WHITE)
7. MARKING LINE EPOXY 8-INCH (WHITE) (3 FT LINE, 9 FT SKIP)
8. NOT USED
9. NOT USED
10. MARKING STOP LINE EPOXY 18-INCH (WHITE)
11. MARKING ARROW EPOXY (WHITE)
12. MARKING WORD EPOXY (WHITE)

PROJECT NO: 3834-06-70	HWY: STH 142	COUNTY: KENOSHA	PAVEMENT MARKING	SHEET 59	E



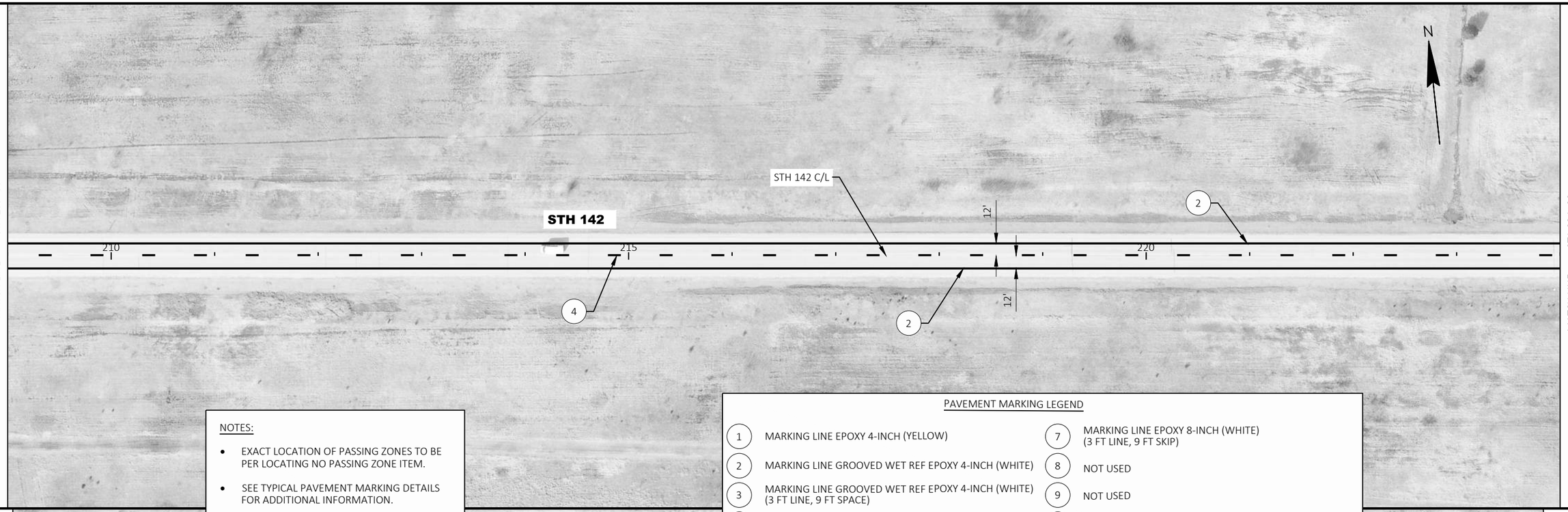
NOTES:

- EXACT LOCATION OF PASSING ZONES TO BE PER LOCATING NO PASSING ZONE ITEM.
- SEE TYPICAL PAVEMENT MARKING DETAILS FOR ADDITIONAL INFORMATION.
- SEE SDD 2-LANE RURAL CENTERLINE RUMBLE STRIP, MILLING FOR GROOVE SPACING AND GAP LOCATIONS.
- SEE SDD 2-LANE RURAL SHOULDER RUMBLE STRIP, MILLING FOR GROOVE SPACING AND GAP LOCATIONS.

PAVEMENT MARKING LEGEND

1	MARKING LINE EPOXY 4-INCH (YELLOW)	7	MARKING LINE EPOXY 8-INCH (WHITE) (3 FT LINE, 9 FT SKIP)
2	MARKING LINE GROOVED WET REF EPOXY 4-INCH (WHITE)	8	NOT USED
3	MARKING LINE GROOVED WET REF EPOXY 4-INCH (WHITE) (3 FT LINE, 9 FT SPACE)	9	NOT USED
4	MARKING LINE EPOXY 4-INCH (DASHED YELLOW) (12.5 FT LINE, 37.5 FT SKIP)	10	MARKING STOP LINE EPOXY 18-INCH (WHITE)
5	MARKING LINE EPOXY 4-INCH (DASHED WHITE) (12.5 FT LINE, 37.5 FT SKIP)	11	MARKING ARROW EPOXY (WHITE)
6	MARKING LINE EPOXY 8-INCH (WHITE)	12	MARKING WORD EPOXY (WHITE)

PROJECT NO: 3834-06-70	HWY: STH 142	COUNTY: KENOSHA	PAVEMENT MARKING	SHEET 60	E



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PAVEMENT MARKING LEGEND

1	MARKING LINE EPOXY 4-INCH (YELLOW)	7	MARKING LINE EPOXY 8-INCH (WHITE) (3 FT LINE, 9 FT SKIP)
2	MARKING LINE GROOVED WET REF EPOXY 4-INCH (WHITE)	8	NOT USED
3	MARKING LINE GROOVED WET REF EPOXY 4-INCH (WHITE) (3 FT LINE, 9 FT SPACE)	9	NOT USED
4	MARKING LINE EPOXY 4-INCH (DASHED YELLOW) (12.5 FT LINE, 37.5 FT SKIP)	10	MARKING STOP LINE EPOXY 18-INCH (WHITE)
5	MARKING LINE EPOXY 4-INCH (DASHED WHITE) (12.5 FT LINE, 37.5 FT SKIP)	11	MARKING ARROW EPOXY (WHITE)
6	MARKING LINE EPOXY 8-INCH (WHITE)	12	MARKING WORD EPOXY (WHITE)

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- SEE SDD 2-LANE RURAL SHOULDER RUMBLE STRIP, MILLING FOR GROOVE SPACING AND GAP LOCATIONS.

PAVEMENT MARKING LEGEND

1	MARKING LINE EPOXY 4-INCH (YELLOW)	7	MARKING LINE EPOXY 8-INCH (WHITE) (3 FT LINE, 9 FT SKIP)
2	MARKING LINE GROOVED WET REF EPOXY 4-INCH (WHITE)	8	NOT USED
3	MARKING LINE GROOVED WET REF EPOXY 4-INCH (WHITE) (3 FT LINE, 9 FT SPACE)	9	NOT USED
4	MARKING LINE EPOXY 4-INCH (DASHED YELLOW) (12.5 FT LINE, 37.5 FT SKIP)	10	MARKING STOP LINE EPOXY 18-INCH (WHITE)
5	MARKING LINE EPOXY 4-INCH (DASHED WHITE) (12.5 FT LINE, 37.5 FT SKIP)	11	MARKING ARROW EPOXY (WHITE)
6	MARKING LINE EPOXY 8-INCH (WHITE)	12	MARKING WORD EPOXY (WHITE)

PROJECT NO: 3834-06-70	HWY: STH 142	COUNTY: KENOSHA	PAVEMENT MARKING	SHEET 62	E

NOTES:

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PAVEMENT MARKING LEGEND

1. MARKING LINE EPOXY 4-INCH (YELLOW)
2. MARKING LINE GROOVED WET REF EPOXY 4-INCH (WHITE)
3. MARKING LINE GROOVED WET REF EPOXY 4-INCH (WHITE) (3 FT LINE, 9 FT SPACE)
4. MARKING LINE EPOXY 4-INCH (DASHED YELLOW) (12.5 FT LINE, 37.5 FT SKIP)
5. MARKING LINE EPOXY 4-INCH (DASHED WHITE) (12.5 FT LINE, 37.5 FT SKIP)
6. MARKING LINE EPOXY 8-INCH (WHITE)
7. MARKING LINE EPOXY 8-INCH (WHITE) (3 FT LINE, 9 FT SKIP)
8. NOT USED
9. NOT USED
10. MARKING STOP LINE EPOXY 18-INCH (WHITE)
11. MARKING ARROW EPOXY (WHITE)
12. MARKING WORD EPOXY (WHITE)

PROJECT NO: 3834-06-70	HWY: STH 142	COUNTY: KENOSHA	PAVEMENT MARKING	SHEET 63	E

2

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PAVEMENT MARKING LEGEND

1	MARKING LINE EPOXY 4-INCH (YELLOW)	7	MARKING LINE EPOXY 8-INCH (WHITE) (3 FT LINE, 9 FT SKIP)
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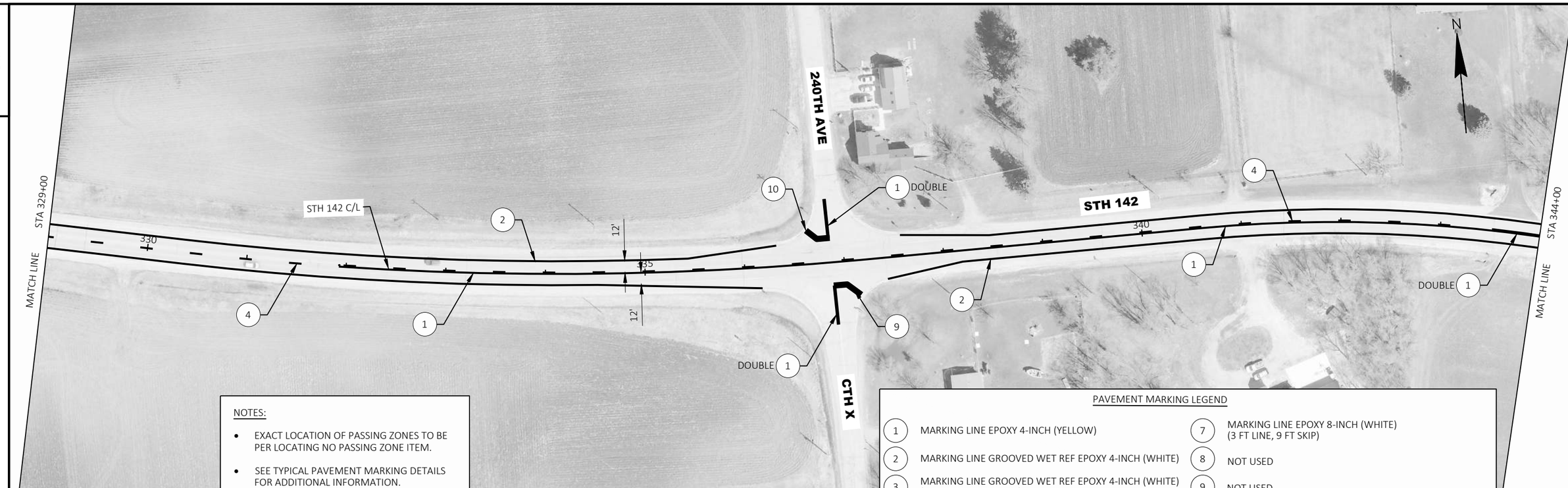
5	MARKING LINE EPOXY 4-INCH (DASHED WHITE) (12.5 FT LINE, 37.5 FT SKIP)	11	MARKING ARROW EPOXY (WHITE)
6	MARKING LINE EPOXY 8-INCH (WHITE)	12	MARKING WORD EPOXY (WHITE)

PROJECT NO: 3834-06-70	HWY: STH 142	COUNTY: KENOSHA	PAVEMENT MARKING	SHEET 64	E

2



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PAVEMENT MARKING LEGEND

1	MARKING LINE EPOXY 4-INCH (YELLOW)	7	MARKING LINE EPOXY 8-INCH (WHITE) (3 FT LINE, 9 FT SKIP)
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5	MARKING LINE EPOXY 4-INCH (DASHED WHITE) (12.5 FT LINE, 37.5 FT SKIP)	11	MARKING ARROW EPOXY (WHITE)
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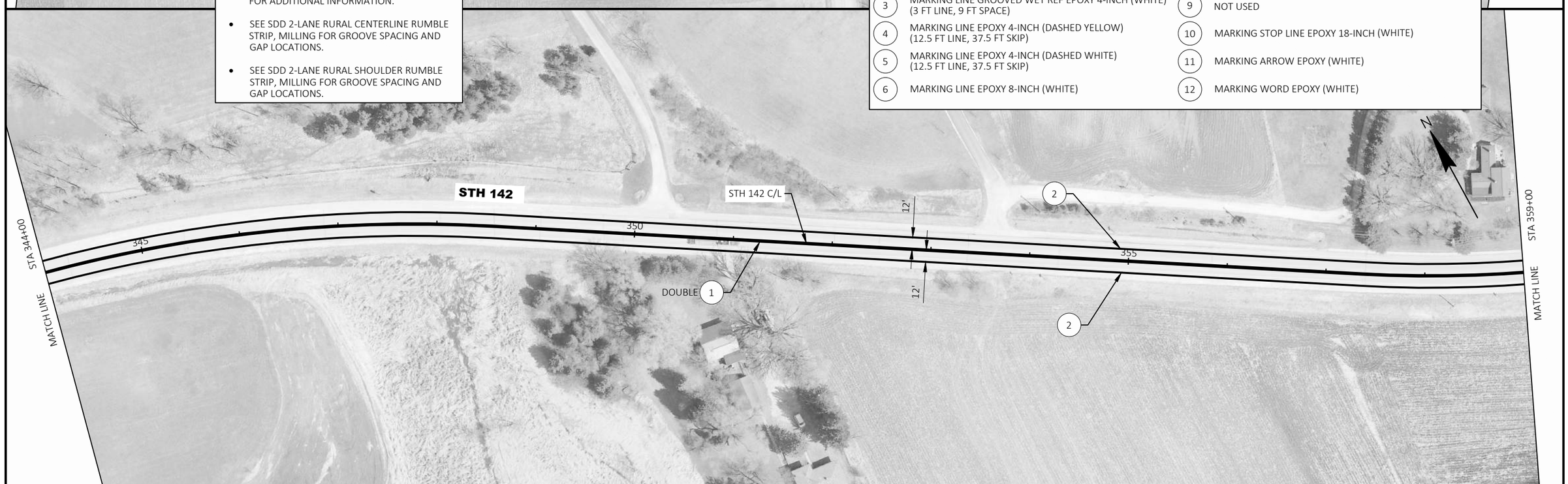
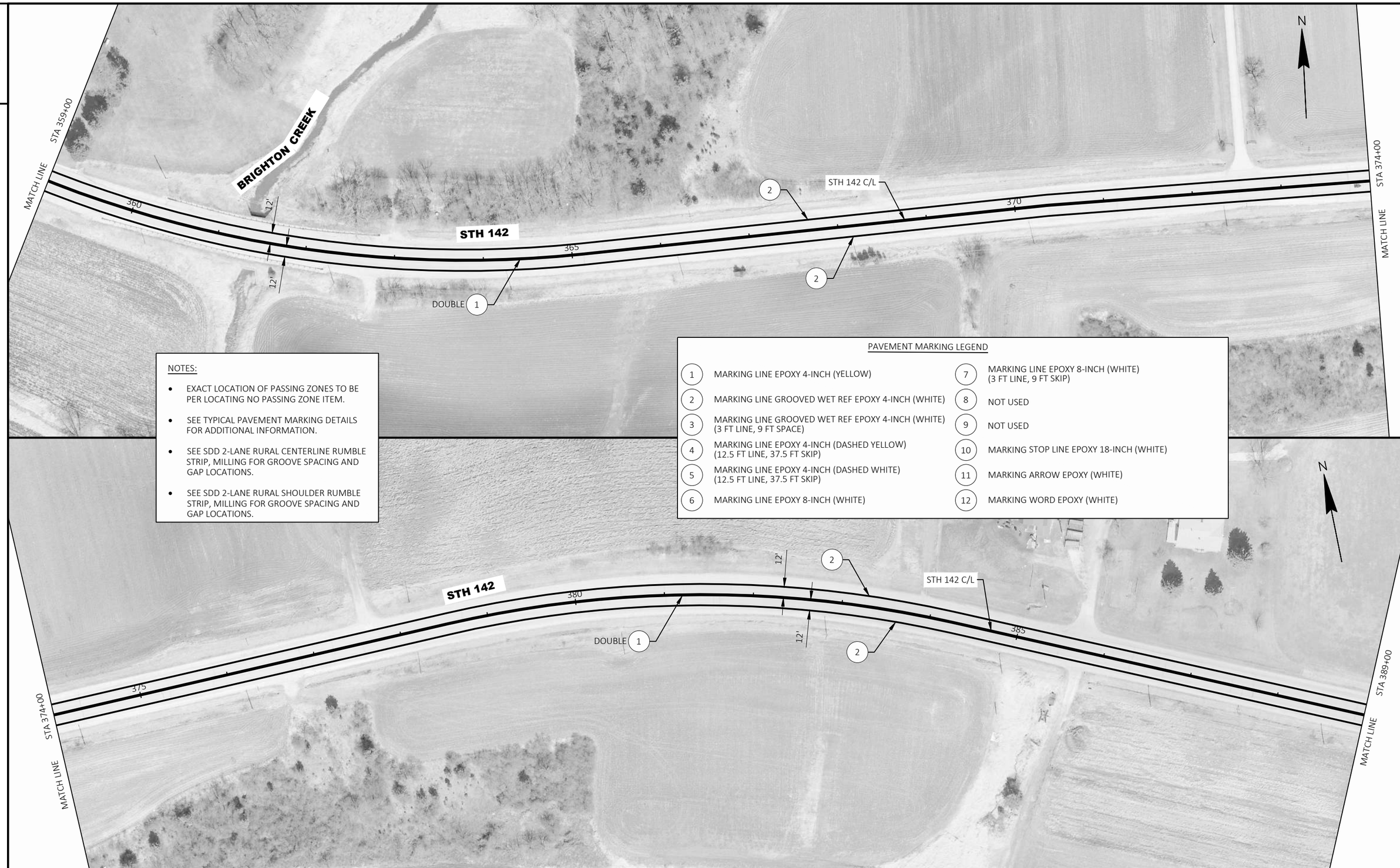


2

PROJECT NO: 3834-06-70	HWY: STH 142	COUNTY: KENOSHA	PAVEMENT MARKING	SHEET 65	E



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PAVEMENT MARKING LEGEND

1	MARKING LINE EPOXY 4-INCH (YELLOW)	7	MARKING LINE EPOXY 8-INCH (WHITE) (3 FT LINE, 9 FT SKIP)
2	MARKING LINE GROOVED WET REF EPOXY 4-INCH (WHITE)	8	NOT USED
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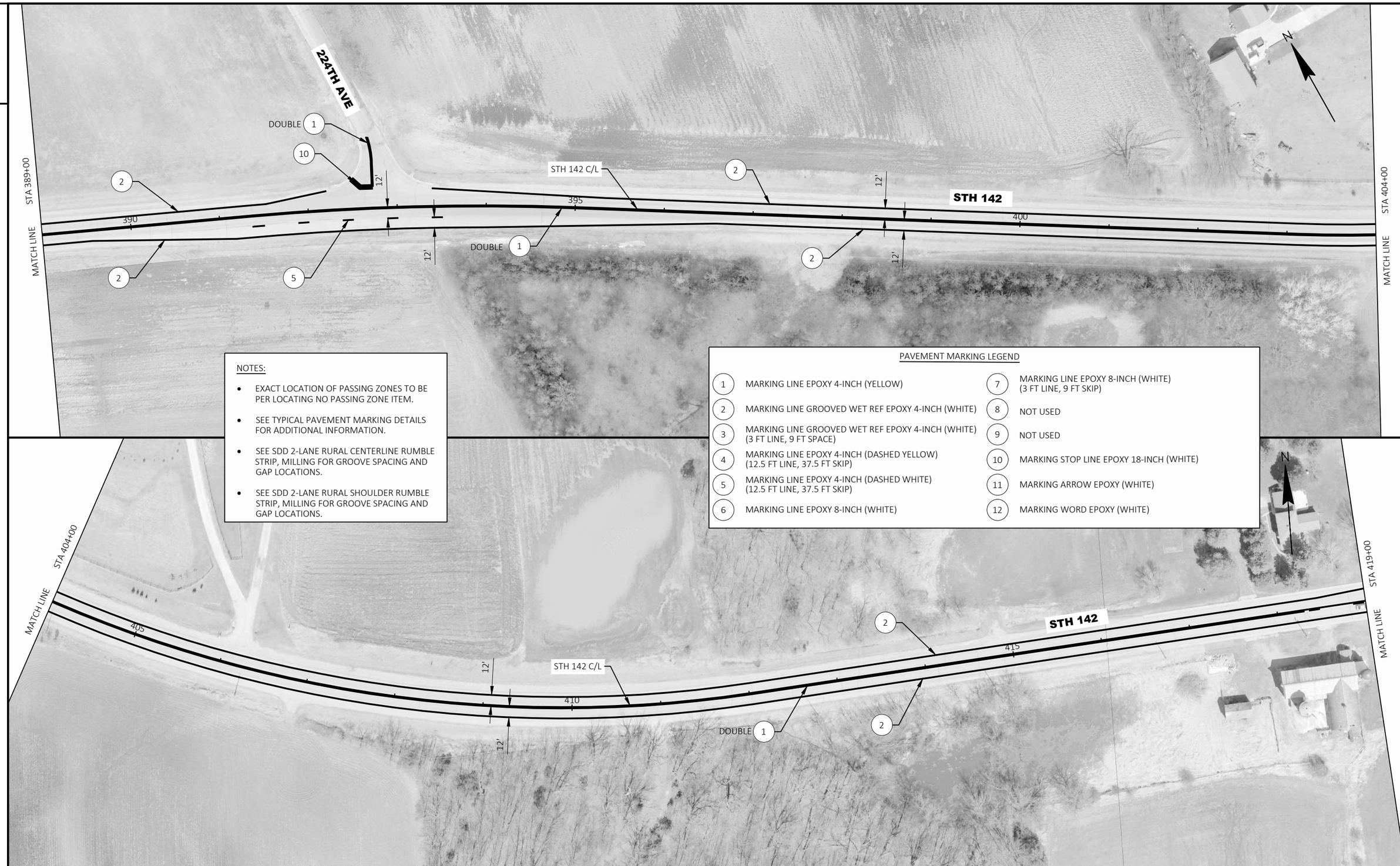
6	MARKING LINE EPOXY 8-INCH (WHITE)	12	MARKING WORD EPOXY (WHITE)

PROJECT NO: 3834-06-70	HWY: STH 142	COUNTY: KENOSHA	PAVEMENT MARKING	SHEET 66	E



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PAVEMENT MARKING LEGEND

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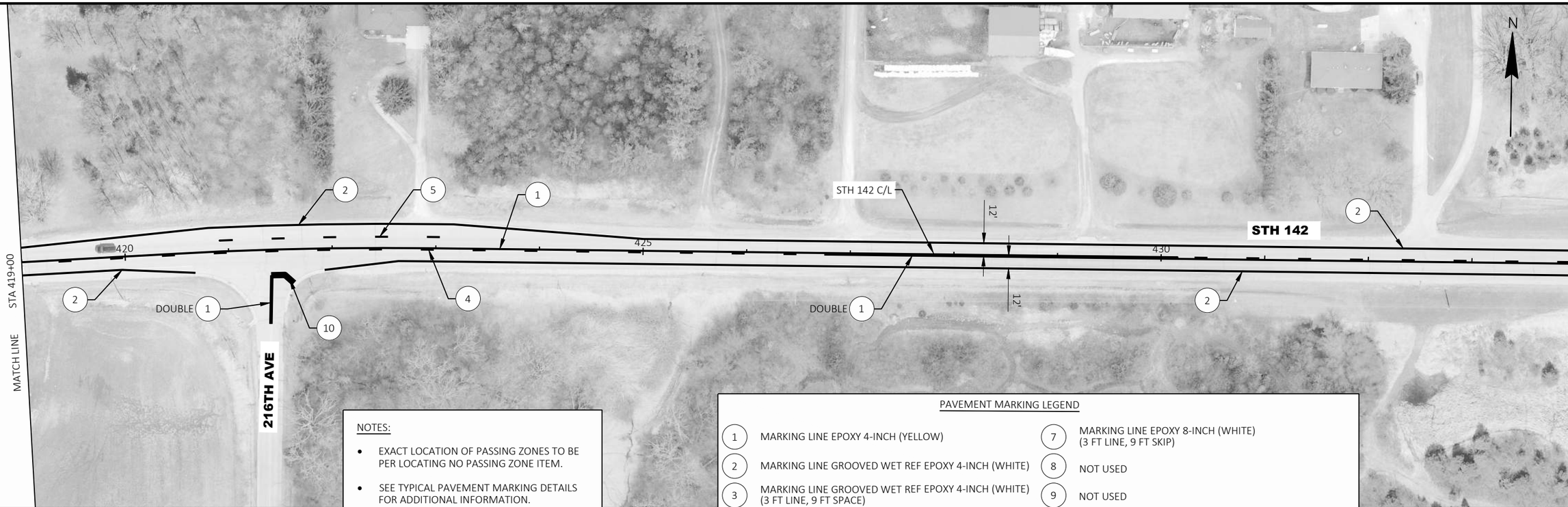
6	MARKING LINE EPOXY 8-INCH (WHITE)	12	MARKING WORD EPOXY (WHITE)

PROJECT NO: 3834-06-70	HWY: STH 142	COUNTY: KENOSHA	PAVEMENT MARKING	SHEET 67	E



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PAVEMENT MARKING LEGEND

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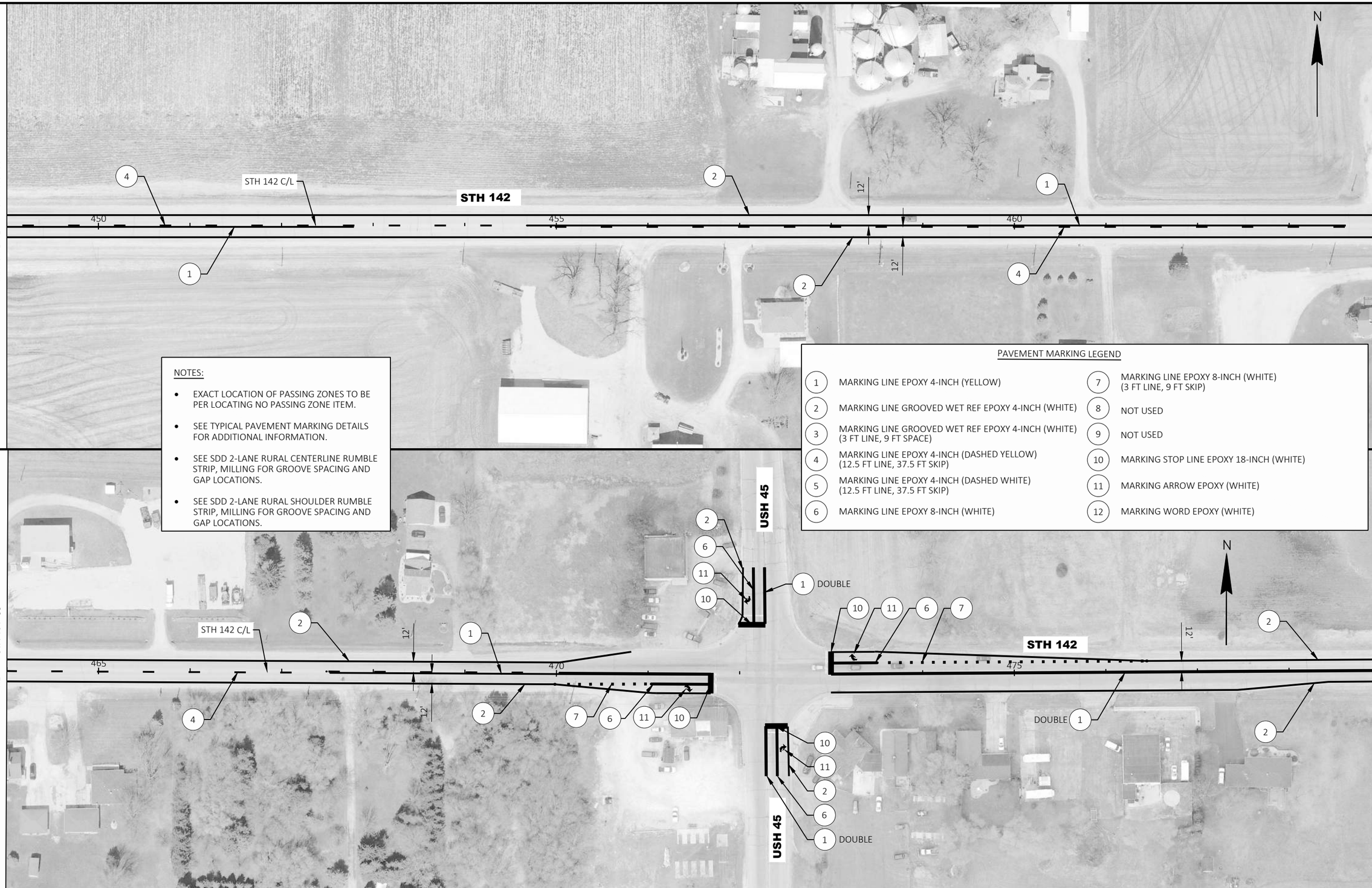
6	MARKING LINE EPOXY 8-INCH (WHITE)	12	MARKING WORD EPOXY (WHITE)

PROJECT NO: 3834-06-70	HWY: STH 142	COUNTY: KENOSHA	PAVEMENT MARKING	SHEET 68	E



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PAVEMENT MARKING LEGEND

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PROJECT NO: 3834-06-70	HWY: STH 142	COUNTY: KENOSHA	PAVEMENT MARKING	SHEET 69	E

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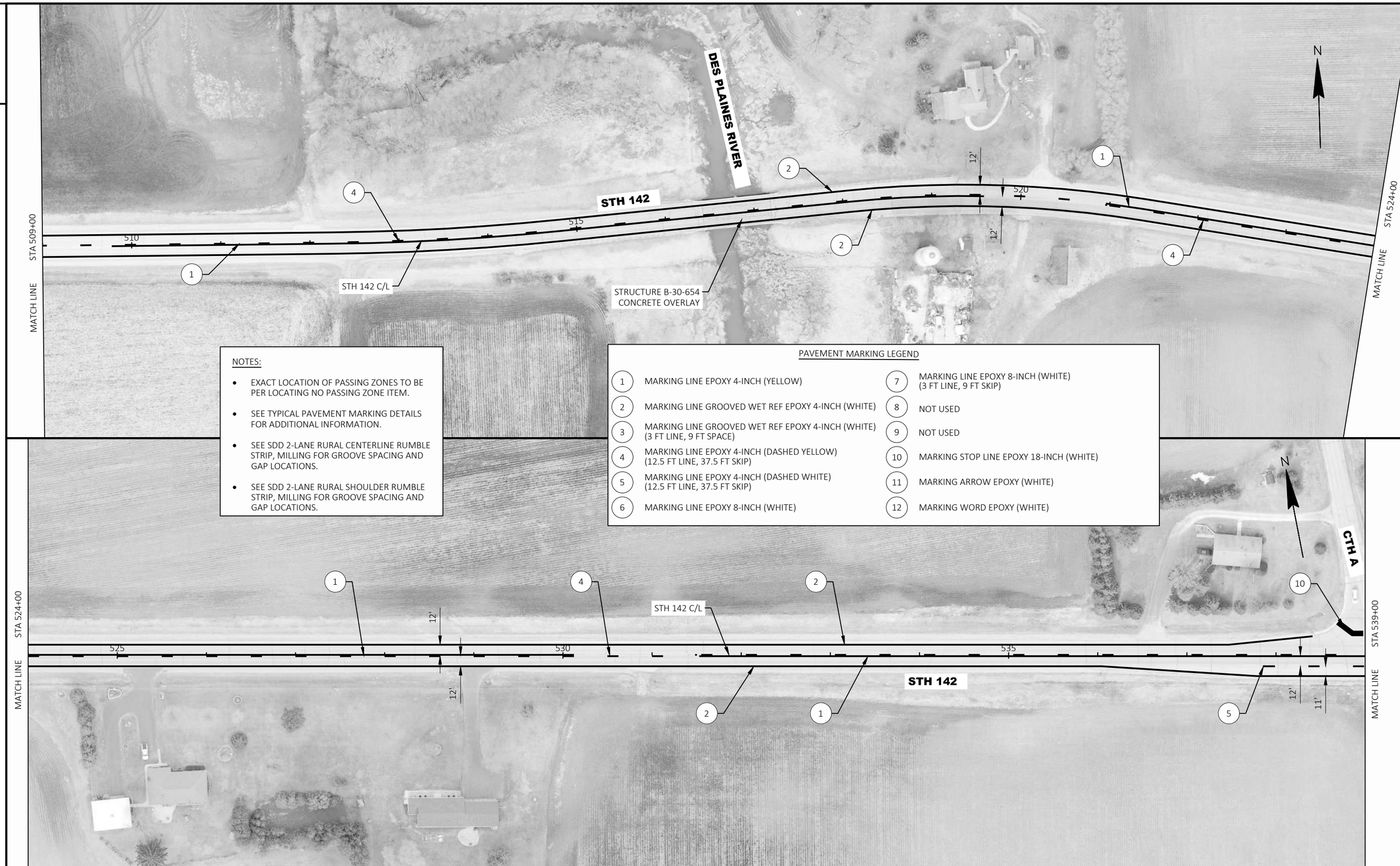
6	MARKING LINE EPOXY 8-INCH (WHITE)	12	MARKING WORD EPOXY (WHITE)

PROJECT NO: 3834-06-70	HWY: STH 142	COUNTY: KENOSHA	PAVEMENT MARKING	SHEET 70	E



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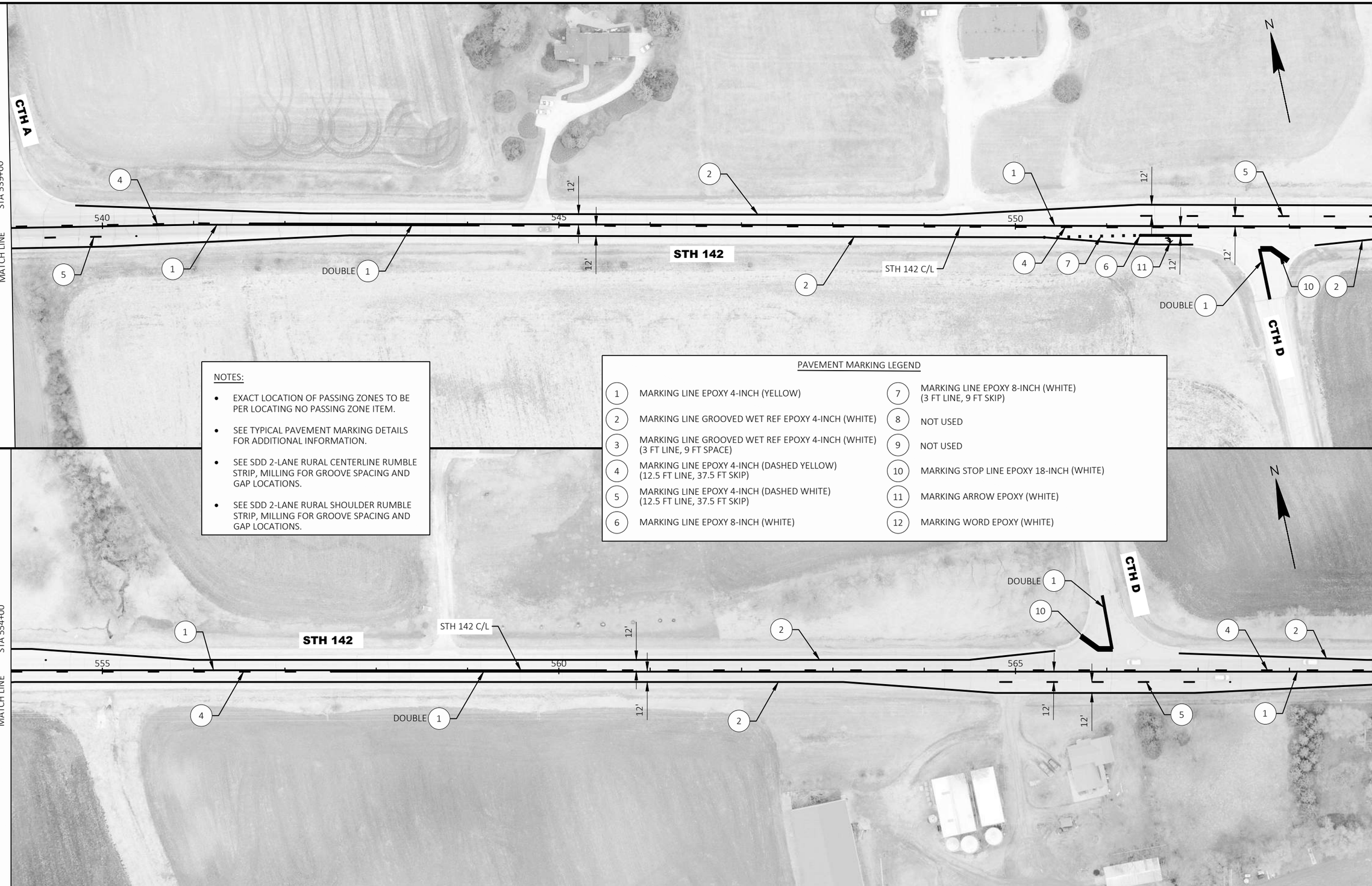
PROJECT NO: 3834-06-70	HWY: STH 142	COUNTY: KENOSHA	PAVEMENT MARKING	SHEET 71	E



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2

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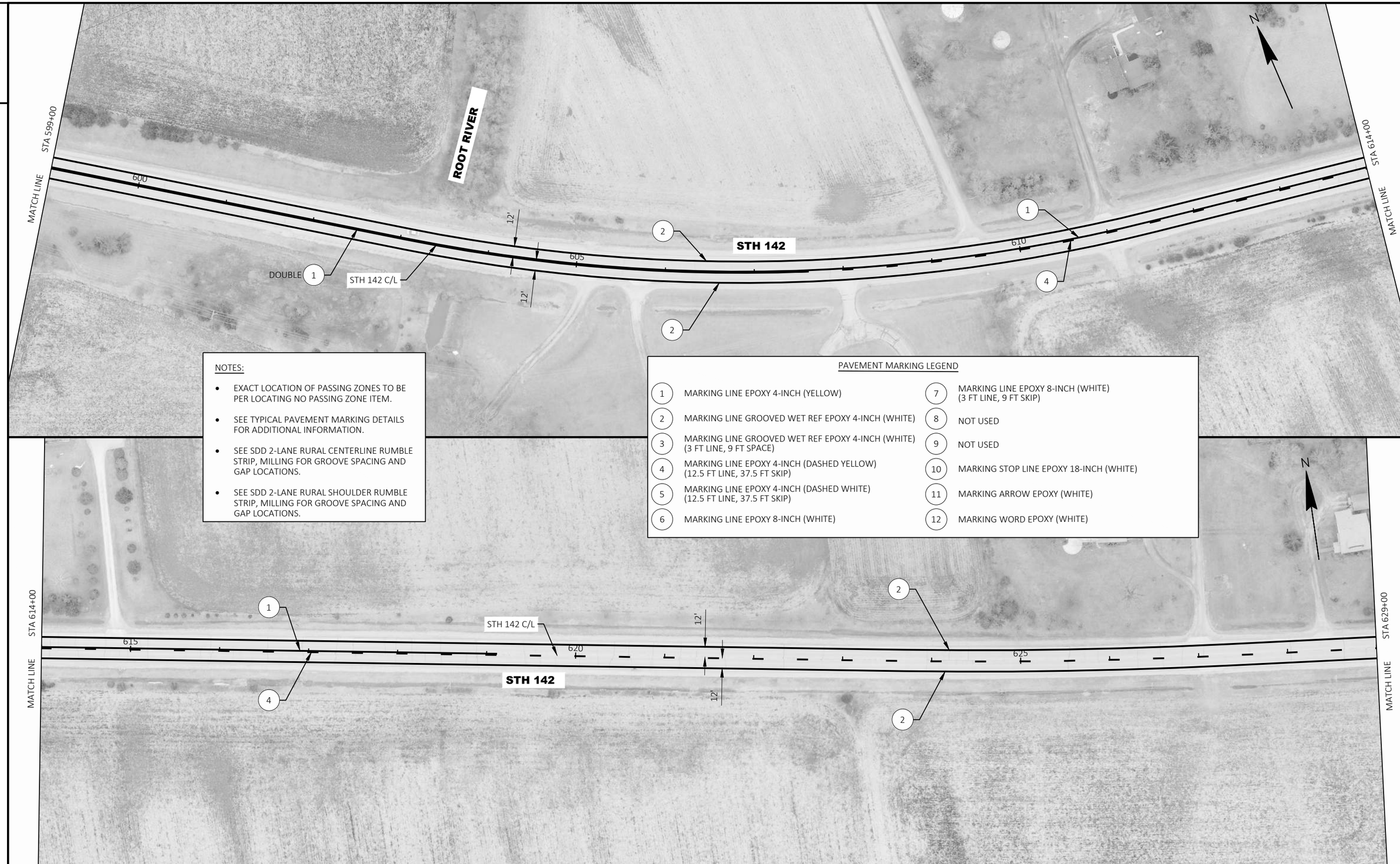
2

PROJECT NO: 3834-06-70	HWY: STH 142	COUNTY: KENOSHA	PAVEMENT MARKING	SHEET 73	E



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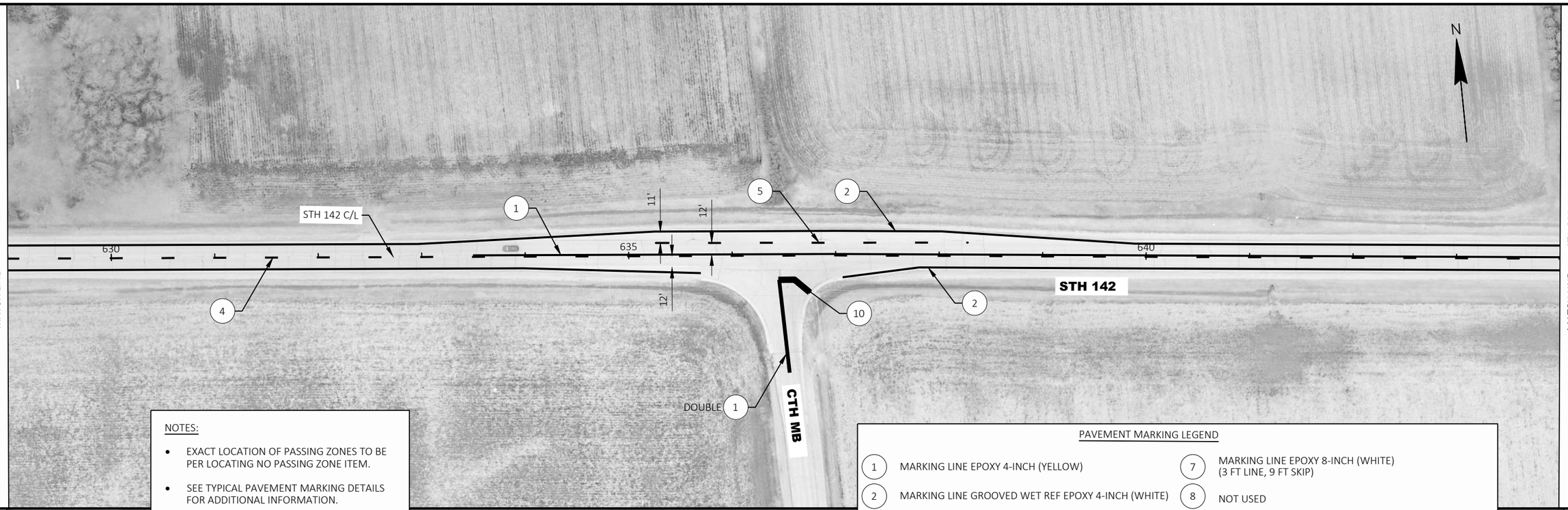
PROJECT NO: 3834-06-70	HWY: STH 142	COUNTY: KENOSHA	PAVEMENT MARKING	SHEET 74	E



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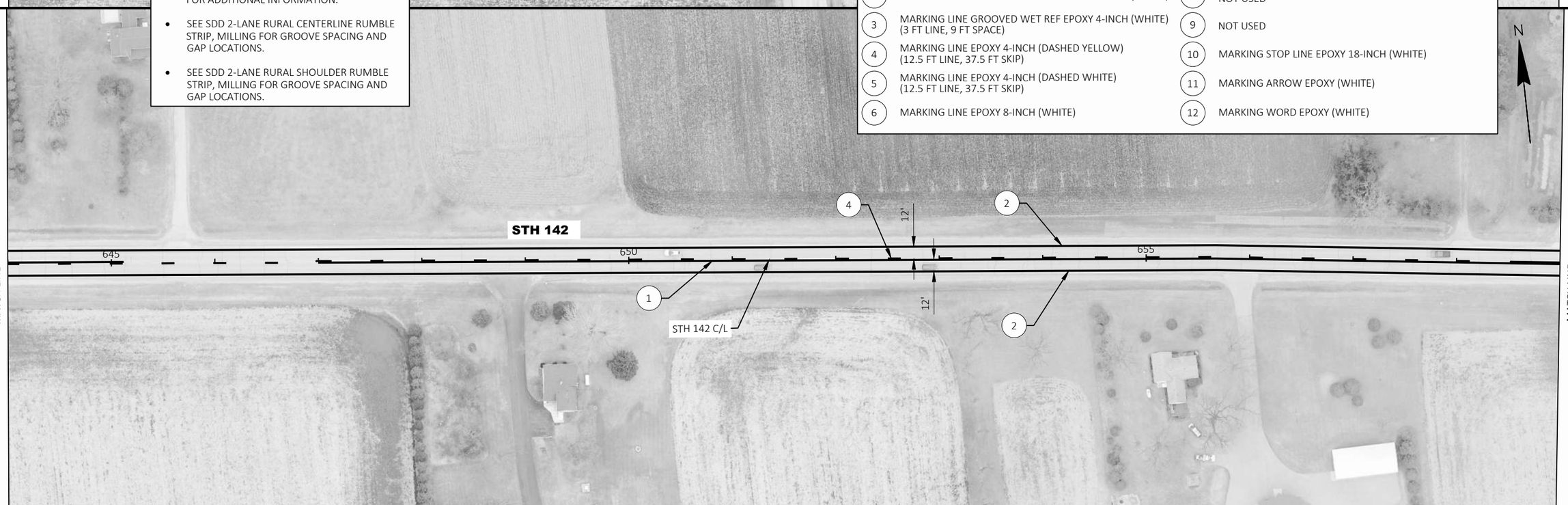
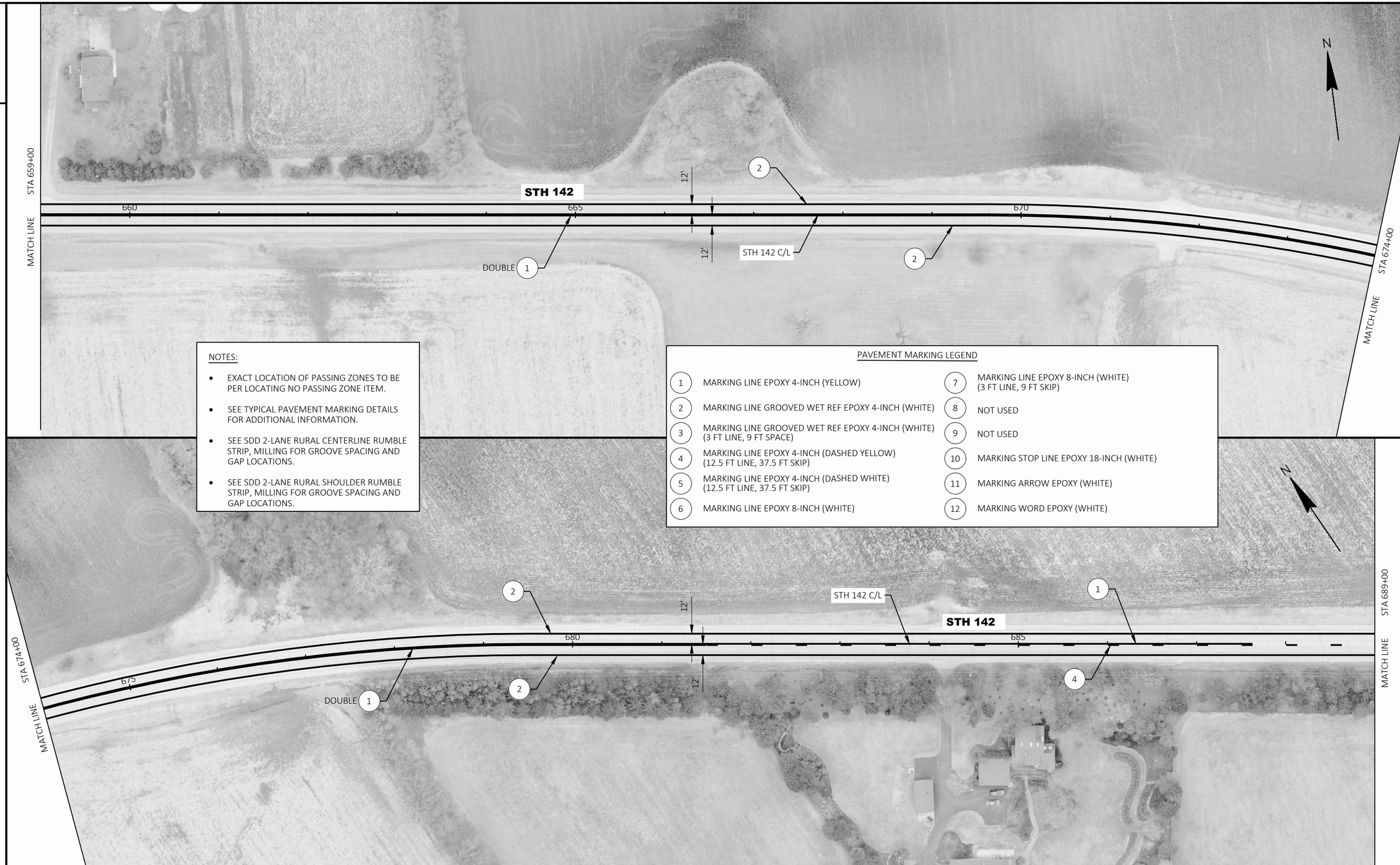
- SEE SDD 2-LANE RURAL CENTERLINE RUMBLE STRIP, MILLING FOR GROOVE SPACING AND GAP LOCATIONS.
- SEE SDD 2-LANE RURAL SHOULDER RUMBLE STRIP, MILLING FOR GROOVE SPACING AND GAP LOCATIONS.

PAVEMENT MARKING LEGEND

1	MARKING LINE EPOXY 4-INCH (YELLOW)	7	MARKING LINE EPOXY 8-INCH (WHITE) (3 FT LINE, 9 FT SKIP)
2	MARKING LINE GROOVED WET REF EPOXY 4-INCH (WHITE)	8	NOT USED
3	MARKING LINE GROOVED WET REF EPOXY 4-INCH (WHITE) (3 FT LINE, 9 FT SPACE)	9	NOT USED
4	MARKING LINE EPOXY 4-INCH (DASHED YELLOW) (12.5 FT LINE, 37.5 FT SKIP)	10	MARKING STOP LINE EPOXY 18-INCH (WHITE)
5	MARKING LINE EPOXY 4-INCH (DASHED WHITE) (12.5 FT LINE, 37.5 FT SKIP)	11	MARKING ARROW EPOXY (WHITE)
6	MARKING LINE EPOXY 8-INCH (WHITE)	12	MARKING WORD EPOXY (WHITE)





NOTES:

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PAVEMENT MARKING LEGEND

1	MARKING LINE EPOXY 4-INCH (YELLOW)	7	MARKING LINE EPOXY 8-INCH (WHITE) (3 FT LINE, 9 FT SKIP)
2	MARKING LINE GROOVED WET REF EPOXY 4-INCH (WHITE)	8	NOT USED
3	MARKING LINE GROOVED WET REF EPOXY 4-INCH (WHITE) (3 FT LINE, 9 FT SPACE)	9	NOT USED
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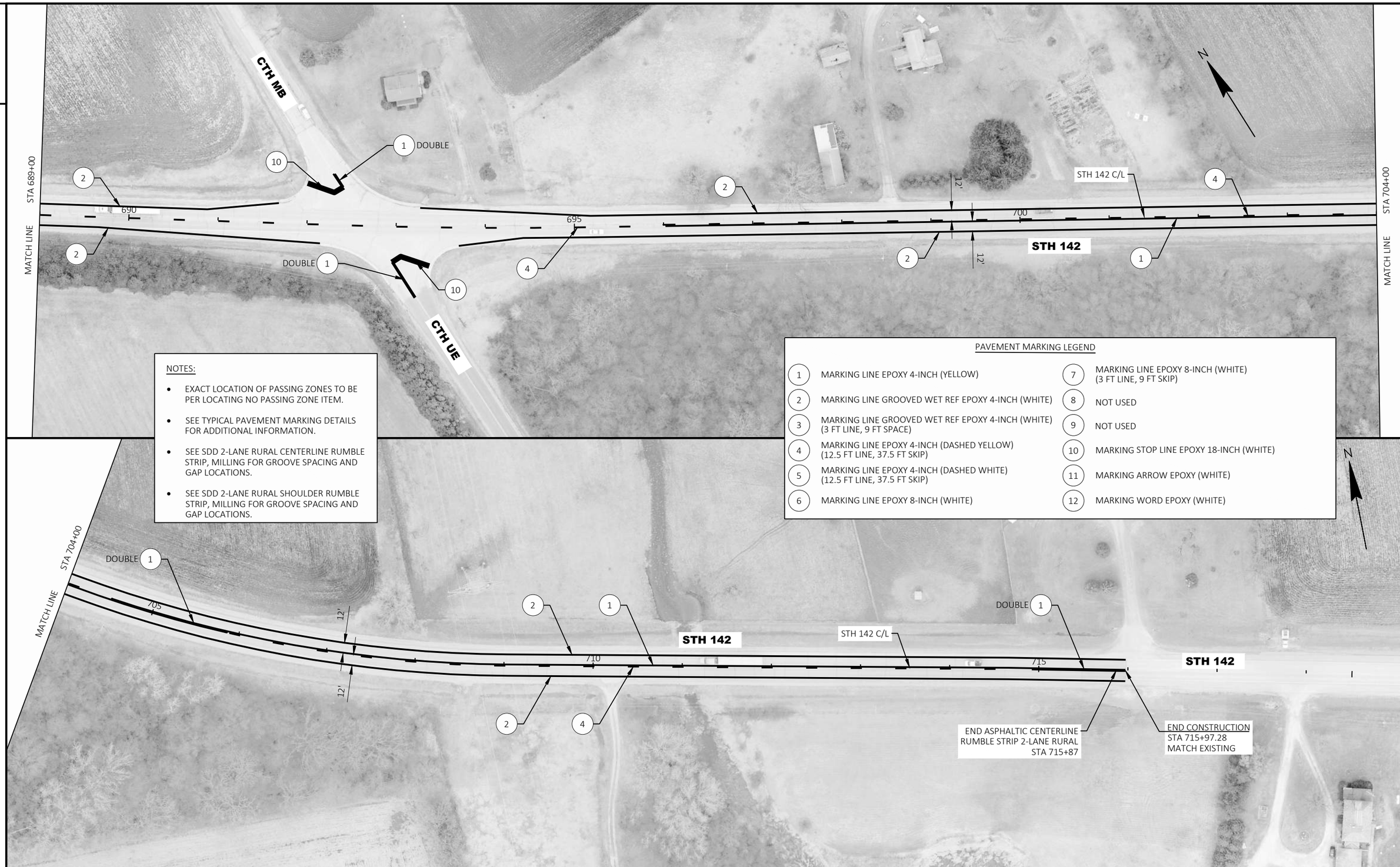
5	MARKING LINE EPOXY 4-INCH (DASHED WHITE) (12.5 FT LINE, 37.5 FT SKIP)	11	MARKING ARROW EPOXY (WHITE)
6	MARKING LINE EPOXY 8-INCH (WHITE)	12	MARKING WORD EPOXY (WHITE)

PROJECT NO: 3834-06-70	HWY: STH 142	COUNTY: KENOSHA	PAVEMENT MARKING	SHEET 76	E



NOTES:

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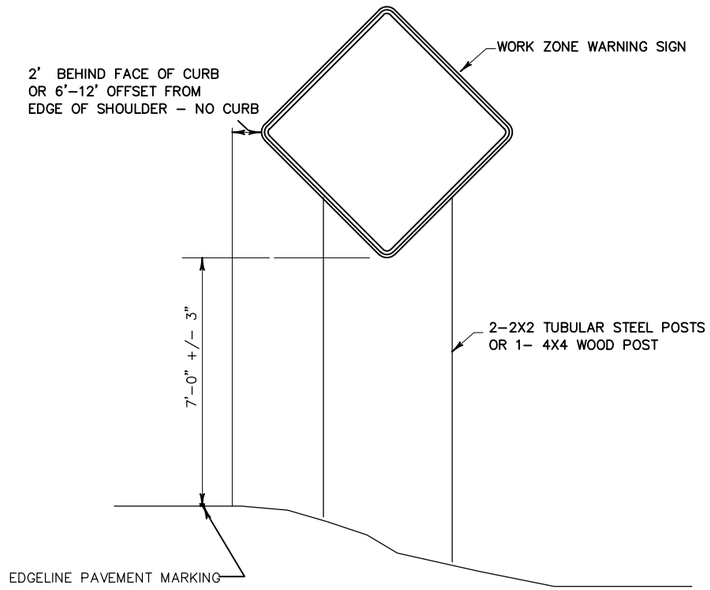
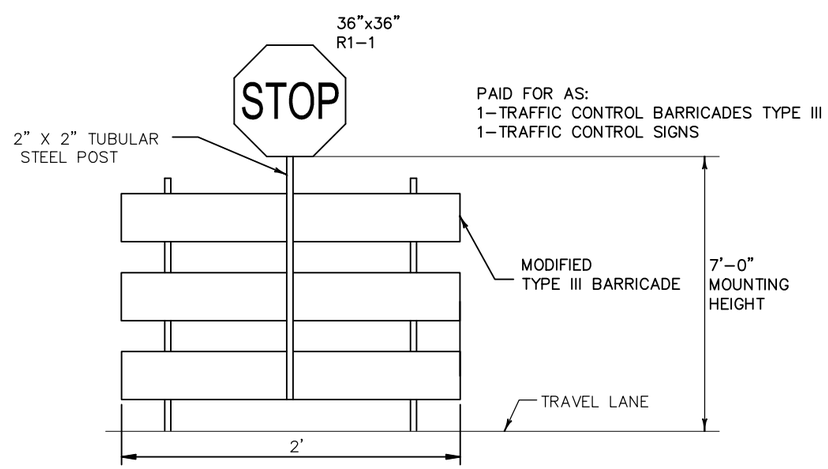


TYPICAL TEMPORARY TRAFFIC CONTROL DETAIL
MOUNTING ON FIXED SUPPORT

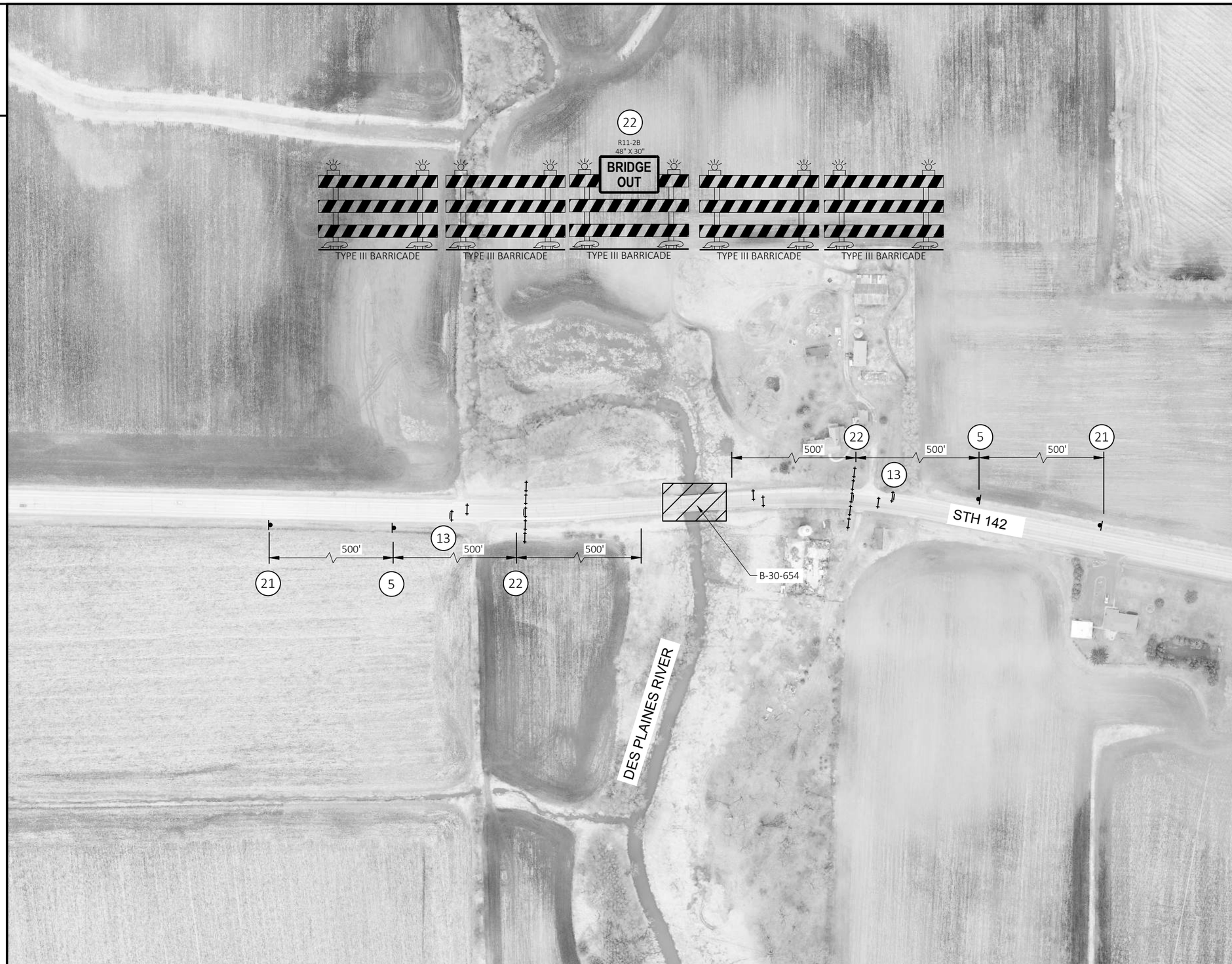
LONG TERM
7 DAYS OR MORE

GENERAL NOTES FOR TRAFFIC CONTROL

1. TRAFFIC CONTROL DRUMS IN TAPERS, SHALL BE EQUIPPED WITH WARNING LIGHTS, TYPE "C", ONE WAY LIGHTS IN TAPERS ONLY, UNLESS OTHERWISE SHOWN.
2. SIGN LOCATIONS ARE APPROXIMATE. THE ACTUAL LOCATION SPACING MAY BE ADJUSTED AS DIRECTED BY THE ENGINEER TO MEET FIELD CONDITIONS.
3. "WO" SIGNS ARE THE SAME AS "W" SIGNS EXCEPT THE BACKGROUND IS REFLECTIVE ORANGE.
4. ALL TRAFFIC CONTROL SIGNS SHALL BE 48" X 48" UNLESS OTHERWISE NOTED IN THE PLANS.
5. BARRICADE STRIPES ARE TO BE SLOPED DOWNWARD IN THE DIRECTION OF TRAFFIC FLOW.



TEMPORARY STOP SIGN



DETOUR GENERAL NOTES

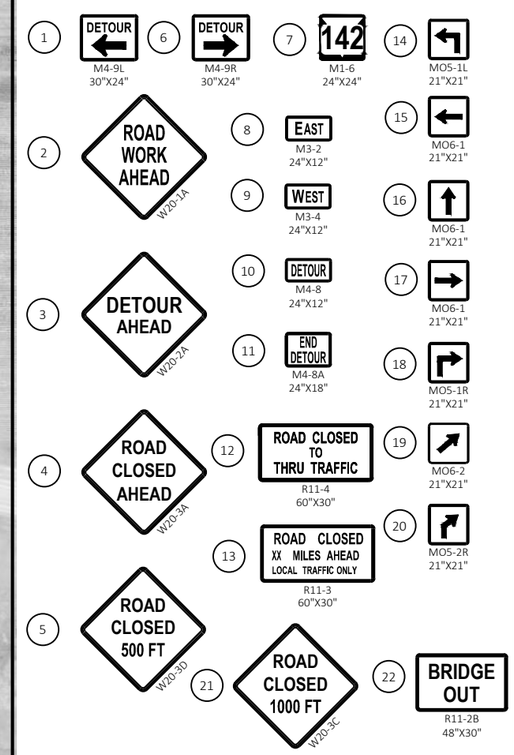
ALL SIGNS SHALL BE PLACED IN ACCORDANCE WITH THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES.

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

SIGN LAYOUTS SHALL BE IN ACCORDANCE WITH THE FEDERAL HIGHWAY ADMINISTRATION MANUAL OF STANDARD HIGHWAY SIGNS, UNLESS OTHERWISE PROVIDED BY THE PLAN.

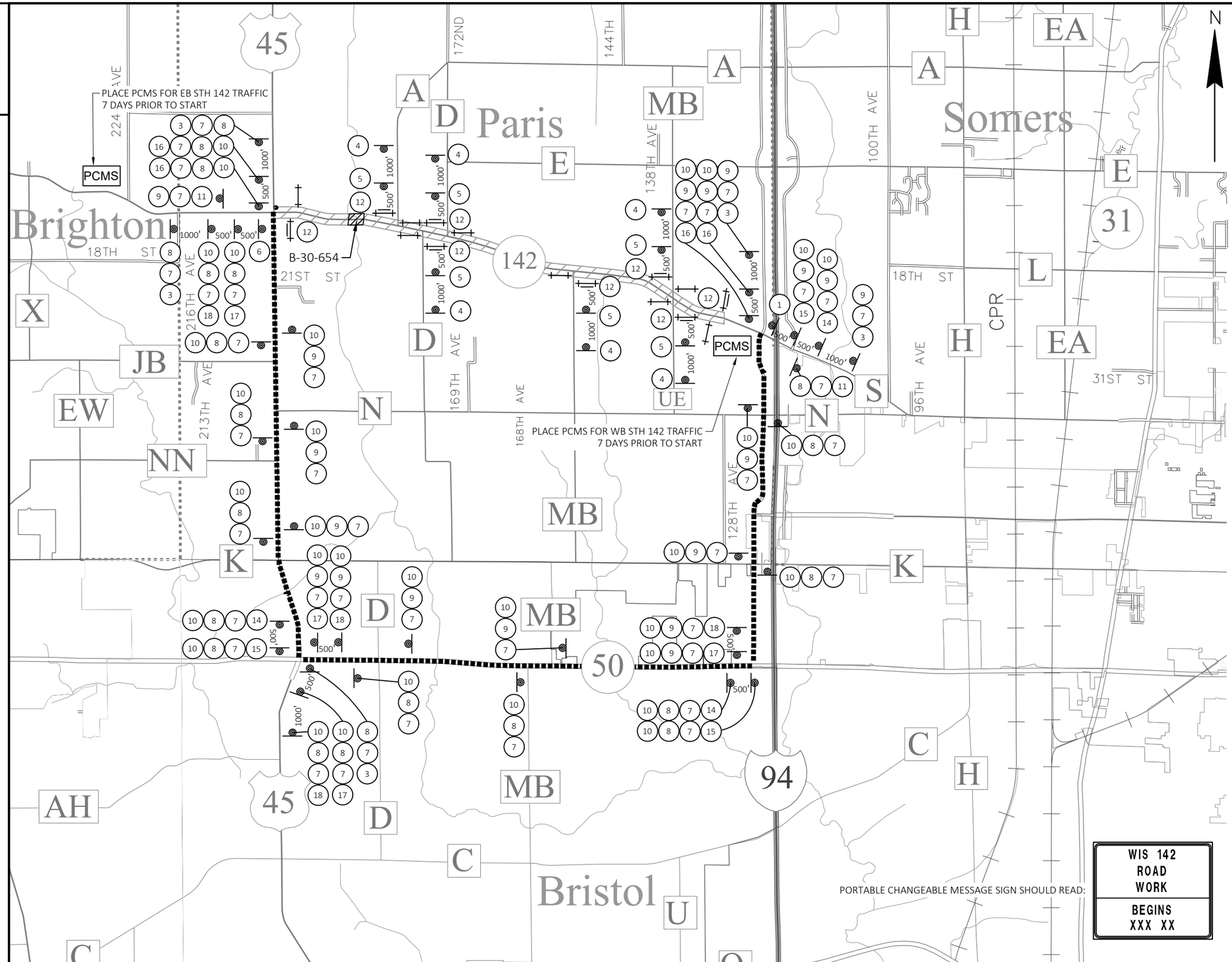
ANY EXISTING TRAFFIC SIGNS THAT CONFLICT WITH THIS WORK SHALL BE COVERED AS DIRECTED BY THE ENGINEER.

USE SIZE 3 SIGN ON FREEWAY.



LEGEND

- TYPE III BARRICADE
- TYPE III BARRICADE WITH ATTACHED SIGN
- SIGN ON PERMANENT SUPPORT
- SIGN ON TEMPORARY SUPPORT
- WORK ZONE
- (x) SIGN NUMBER
- 500' DISTANCE BETWEEN SIGNS
- DETOUR ROUTE



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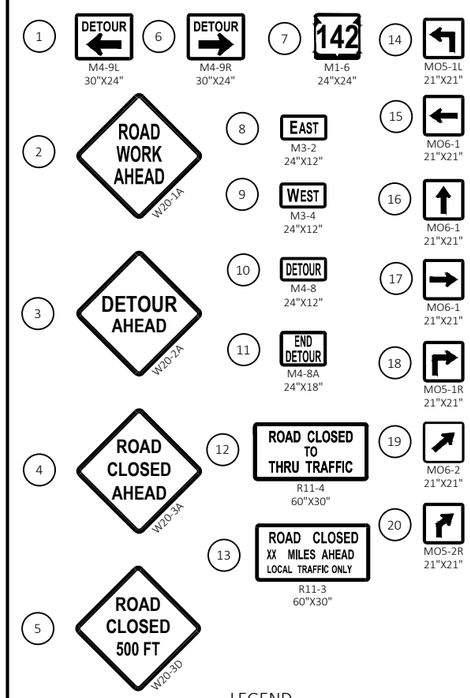
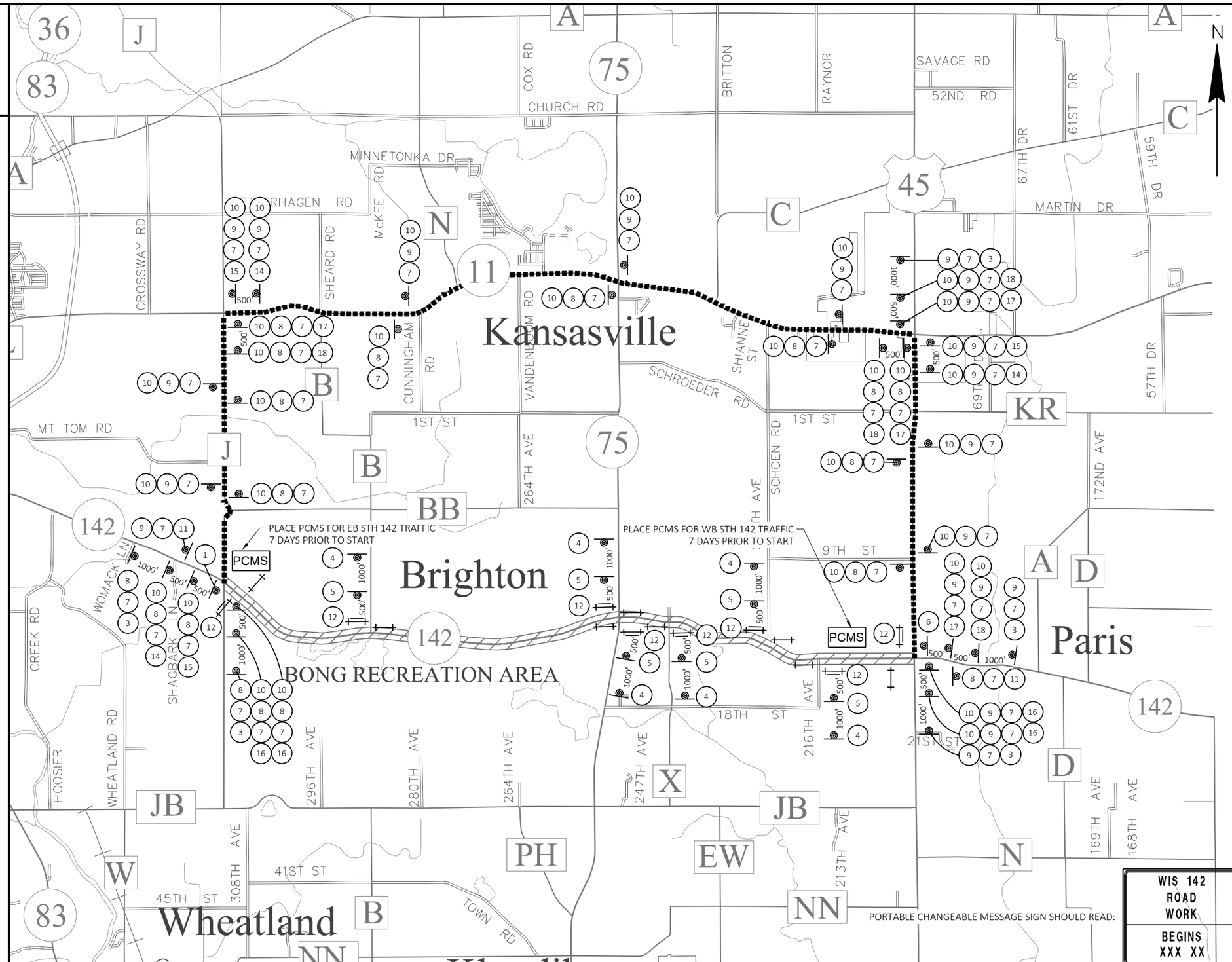


LEGEND

- TYPE III BARRICADE
- TYPE III BARRICADE WITH ATTACHED SIGN
- SIGN ON PERMANENT SUPPORT
- SIGN ON TEMPORARY SUPPORT
- WORK ZONE
- DIRECTION OF TRAFFIC
- (x) SIGN NUMBER
- 500' DISTANCE BETWEEN SIGNS
- DETOUR ROUTE
- PCMS PORTABLE CHANGEABLE MESSAGE SIGN

PROJECT NO: 3834-06-70	HWY: STH 142	COUNTY: KENOSHA	DETOUR ROUTE STAGE 1	SHEET 80	E



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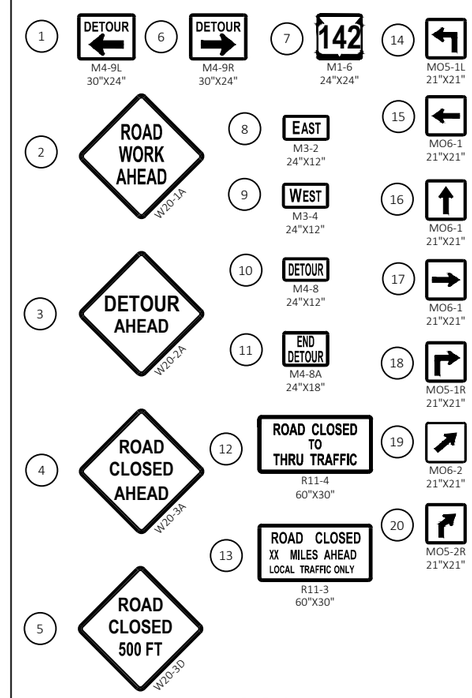

LEGEND

- TYPE III BARRICADE
- TYPE III BARRICADE WITH ATTACHED SIGN
- SIGN ON PERMANENT SUPPORT
- SIGN ON TEMPORARY SUPPORT
- WORK ZONE
- DIRECTION OF TRAFFIC
- (x) SIGN NUMBER
- 500' DISTANCE BETWEEN SIGNS
- DETOUR ROUTE
- PCMS PORTABLE CHANGEABLE MESSAGE SIGN

PROJECT NO: 3834-06-70	HWY: STH 142	COUNTY: KENOSHA	DETOUR ROUTE STAGE 2	SHEET 81	E

3834-06-70

Line	Item	Item Description	Unit	Total	Qty
0002	203.0335	Debris Containment Over Waterway (structure) 01. B-30-654	EACH	1.000	1.000
0004	204.0115	Removing Asphaltic Surface Butt Joints	SY	796.000	796.000
0006	204.0120	Removing Asphaltic Surface Milling	SY	230,043.000	230,043.000
0008	204.9060.S	Removing (item description) 01. Apron Endwalls	EACH	2.000	2.000
0010	205.0100	Excavation Common	CY	800.000	800.000
0012	213.0100	Finishing Roadway (project) 01. 3834-06-70	EACH	1.000	1.000
0014	305.0110	Base Aggregate Dense 3/4-Inch	TON	5,687.000	5,687.000
0016	305.0120	Base Aggregate Dense 1 1/4-Inch	TON	1,510.000	1,510.000
0018	311.0110	Breaker Run	TON	1,100.000	1,100.000
0020	390.0203	Base Patching Asphaltic	SY	1,440.000	1,440.000
0022	390.0403	Base Patching Concrete Shes	SY	1,030.000	1,030.000
0024	416.0610	Drilled Tie Bars	EACH	320.000	320.000
0026	416.0620	Drilled Dowel Bars	EACH	850.000	850.000
0028	455.0605	Tack Coat	GAL	16,231.000	16,231.000
0030	460.0105.S	HMA Percent Within Limits (PWL) Test Strip Volumetrics	EACH	1.000	1.000
0032	460.0110.S	HMA Percent Within Limits (PWL) Test Strip Density	EACH	1.000	1.000
0034	460.2005	Incentive Density PWL HMA Pavement	DOL	19,630.000	19,630.000
0036	460.2007	Incentive Density HMA Pavement Longitudinal Joints	DOL	31,070.000	31,070.000
0038	460.2010	Incentive Air Voids HMA Pavement	DOL	27,360.000	27,360.000
0040	460.6224	HMA Pavement 4 MT 58-28 S	TON	27,360.000	27,360.000
0042	465.0315	Asphaltic Flumes	SY	20.000	20.000
0044	465.0425	Asphaltic Shoulder Rumble Strips 2-Lane Rural	LF	32,876.000	32,876.000
0046	465.0475	Asphalt Centerline Rumble Strips 2-Lane Rural	LF	57,735.000	57,735.000
0048	502.3200	Protective Surface Treatment	SY	275.000	275.000
0050	505.0400	Bar Steel Reinforcement HS Structures	LB	410.000	410.000
0052	509.0301	Preparation Decks Type 1	SY	50.000	50.000
0054	509.0302	Preparation Decks Type 2	SY	20.000	20.000
0056	509.0500	Cleaning Decks	SY	260.000	260.000
0058	509.1500	Concrete Surface Repair	SF	650.000	650.000
0060	509.2500	Concrete Masonry Overlay Decks	CY	18.000	18.000
0062	509.9010.S	Removing Asphaltic Concrete Deck Overlay (structure) 01. B-30-654	SY	260.000	260.000
0064	520.8700	Cleaning Culvert Pipes	EACH	1.000	1.000
0066	521.1024	Apron Endwalls for Culvert Pipe Steel 24-Inch	EACH	2.000	2.000
0068	618.0100	Maintenance And Repair of Haul Roads (project) 01. 3834-06-70	EACH	1.000	1.000
0070	619.1000	Mobilization	EACH	1.000	1.000
0072	624.0100	Water	MGAL	69.000	69.000
0074	625.0100	Topsoil	SY	170.000	170.000
0076	627.0200	Mulching	SY	150.000	150.000
0078	628.2002	Erosion Mat Class I Type A	SY	20.000	20.000
0080	628.7015	Inlet Protection Type C	EACH	3.000	3.000
0082	629.0210	Fertilizer Type B	CWT	0.500	0.500
0084	630.0130	Seeding Mixture No. 30	LB	3.000	3.000
0086	634.0618	Posts Wood 4x6-Inch X 18-FT	EACH	270.000	270.000
0088	637.2230	Signs Type II Reflective F	SF	170.000	170.000
0090	638.2102	Moving Signs Type II	EACH	256.000	256.000
0092	638.2602	Removing Signs Type II	EACH	1.000	1.000
0094	638.3000	Removing Small Sign Supports	EACH	245.000	245.000
0096	642.5001	Field Office Type B	EACH	1.000	1.000
0098	643.0420	Traffic Control Barricades Type III	DAY	4,416.000	4,416.000

3834-06-70

Line	Item	Item Description	Unit	Total	Qty
0100	643.0705	Traffic Control Warning Lights Type A	DAY	8,832.000	8,832.000
0102	643.0900	Traffic Control Signs	DAY	43,332.000	43,332.000
0104	643.1050	Traffic Control Signs PCMS	DAY	28.000	28.000
0106	643.5000	Traffic Control	EACH	1.000	1.000
0108	645.0135	Geotextile Type SR	SY	1,440.000	1,440.000
0110	646.1020	Marking Line Epoxy 4-Inch	LF	72,268.000	72,268.000
0112	646.1040	Marking Line Grooved Wet Ref Epoxy 4-Inch	LF	134,438.000	134,438.000
0114	646.3020	Marking Line Epoxy 8-Inch	LF	1,641.000	1,641.000
0116	646.5020	Marking Arrow Epoxy	EACH	13.000	13.000
0118	646.5120	Marking Word Epoxy	EACH	4.000	4.000
0120	646.6120	Marking Stop Line Epoxy 18-Inch	LF	664.000	664.000
0122	648.0100	Locating No-Passing Zones	MI	12.000	12.000
0124	650.8000	Construction Staking Resurfacing Reference	LF	62,130.000	62,130.000
0126	650.9910	Construction Staking Supplemental Control (project) 01. 3834-06-70	LS	1.000	1.000
0128	690.0150	Sawing Asphalt	LF	4,795.000	4,795.000
0130	740.0440	Incentive IRI Ride	DOL	23,534.000	23,534.000
0132	ASP.1T0A	On-the-Job Training Apprentice at $5.00/HR	HRS	3,000.000	3,000.000
0134	ASP.1T0G	On-the-Job Training Graduate at $5.00/HR	HRS	4,320.000	4,320.000
0136	SPV.0060	Special 01. Embedded Galvanic Anodes	EACH	160.000	160.000
0138	SPV.0060	Special 02. Railing Steel Type "W" Repair B-30-654	EACH	3.000	3.000
0140	SPV.0060	Special 03. Section Corner Monuments	EACH	2.000	2.000
0142	SPV.0090	Special 01. Flashing Stainless Steel	LF	154.000	154.000

3

REMOVING ASPHALT

STATION	TO	STATION	204.0115 REMOVING ASPHALTIC SURFACE BUTT JOINTS SY	204.0120 REMOVING ASPHALTIC SURFACE MILLING SY
92+18.17	-	118+50	38	9,943
118+50	-	148+00	-	11,144
148+00	-	178+00	51	11,993
178+00	-	208+00	-	11,396
208+00	-	237+00	-	10,956
237+00	-	267+00	73	12,498
267+00	-	297+00	-	11,372
297+00	-	327+00	125	12,321
327+00	-	356+00	65	10,614
356+00	-	385+25	-	10,079
385+25	-	414+50	30	10,663
414+50	-	444+50	29	11,126
444+50	-	474+50	104	9,423
474+50	-	504+00	-	10,086
504+00	-	533+50	-	9,735
533+50	-	563+00	86	11,728
563+00	-	592+50	36	11,251
592+50	-	621+50	-	9,905
621+50	-	649+25	34	10,261
649+25	-	678+75	-	9,833
678+75	-	708+00	93	11,058
708+00	-	715+97.28	33	2,658
TOTALS			796	230,043

EXCAVATION COMMON

LOCATION	STATION	* 205.0100 CY
PROJECT	UNDISTRIBUTED	800
TOTALS		800

* TO BE USE ON BASE PATCHING WHERE SUBGRADE IMPROVEMENT IS EXPECTED. EXACT LOCATIONS TO BE DETERMINED BY THE FIELD ENGINEER.

APRON ENDWALL REPLACEMENT

LOCATION	STATION	204.9060.S REMOVING APPRON ENDWALLS EACH	520.8700 CLEANING CULVERT PIPE EACH	521.1024 APRON ENDWALLS FOR CULVERT PIPE STEEL 24-INCH EACH
PROJECT	661+48	2	1	2
TOTALS		2	1	2

BASE COURSE ITEMS

STATION	TO	STATION	305.0110 BASE AGGREGATE DENSE 3/4-INCH TON	* 305.0120 BASE AGGREGATE DENSE 1 1/4- TON	* 311.0110 BREAKER RUN TON	624.0100 WATER MGAL
92+18.17	-	118+50	191	---	---	2
118+50	-	148+00	219	---	---	3
148+00	-	178+00	216	---	---	3
178+00	-	208+00	221	---	---	3
208+00	-	237+00	215	---	---	3
237+00	-	267+00	221	---	---	3
267+00	-	297+00	222	---	---	3
297+00	-	327+00	268	---	---	3
327+00	-	356+00	316	---	---	4
356+00	-	385+25	306	---	---	4
385+25	-	414+50	317	---	---	4
414+50	-	444+50	285	---	---	3
444+50	-	474+50	298	---	---	3
474+50	-	504+00	329	---	---	4
504+00	-	533+50	136	---	---	2
533+50	-	563+00	270	---	---	3
563+00	-	592+50	271	---	---	3
592+50	-	621+50	336	---	---	4
621+50	-	649+25	305	---	---	4
649+25	-	678+75	355	---	---	4
678+75	-	708+00	297	---	---	3
708+00	-	715+97.28	93	---	---	1
UNDISTRIBUTED			---	1,510	1,100	
TOTALS			5,687	1,510	1,100	69

* TO BE USE ON BASE PATCHING. EXACT LOCATIONS TO BE DETERMINED BY THE FIELD ENGINEER.

BASE PATCHING ITEMS

STATION	* 390.0203 BASE PATCHING ASPHALTIC SY	* 390.0403 BASE PATCHING CONCRETE SHFS SY	416.0610 DRILLED TIE BARS EACH	416.0620 DRILLED DOWEL BARS EACH
UNDISTRIBUTED	1440	1030	320	850
TOTALS	1440	1030	320	850

* EXACT LOCATIONS TO BE DETERMINED BY THE FIELD ENGINEER AFTER MILLING OPERATION IS COMPLETED.

HMA PAVEMENT

STATION	TO	STATION	455.0605 TACK COAT GAL	460.6224 HMA PAVEMENT 4 MT 58-28 S TON
92+18.17	-	118+50	704	1,188
118+50	-	148+00	780	1,315
148+00	-	178+00	839	1,415
178+00	-	208+00	799	1,347
208+00	-	237+00	767	1,293
237+00	-	267+00	875	1,475
267+00	-	297+00	796	1,342
297+00	-	327+00	873	1,472
327+00	-	356+00	753	1,269
356+00	-	385+25	711	1,199
385+25	-	414+50	752	1,268
414+50	-	444+50	789	1,329
444+50	-	474+50	676	1,140
474+50	-	504+00	712	1,201
504+00	-	533+50	686	1,157
533+50	-	563+00	831	1,400
563+00	-	592+50	792	1,335
592+50	-	621+50	705	1,189
621+50	-	649+25	724	1,220
649+25	-	678+75	694	1,170
678+75	-	708+00	780	1,316
708+00	-	715+97.28	190	321
TOTALS			16,230	27,360

HMA PWL TEST STRIP

STATION	TO	STATION	LOCATION	460.0105.S HMA PERCENT WITHIN LIMITS (PWL) TEST STRIP VOLUMETRICS EACH	460.0110.S HMA PERCENT WITHIN LIMITS (PWL) TEST STRIP DENSITY EACH
92+18		715+87	STH 142	1	1
TOTALS				1	1

3

PWL MIXTURE USE TABLE

THE FOLLOWING ACCEPTANCE CRITERIA ARE APPLICABLE FOR THIS PROJECT:

LOCATION	STATION	MIXTURE USE	UNDERLYING SURFACE	BID ITEM	TONS	THICKNESS	QUALITY MANAGEMENT PROGRAM TO BE USE FOR:	
							MIXTURE ACCEPTANCE	DENSITY ACCEPTANCE
12 FOOT EB DRIVING LANE	92+18 - 715+97	UPPER LAYER	MILLED EXISTING HMA PAVEMENT	4 MT 58-28 S	9,815	2"	INCENTIVE AIR VOIDS PWL HMA PAVEMENT 460.2010	INCENTIVE DENSITY PWL HMA PAVEMENT 460.2005
12 FOOT WB DRIVING LANE	92+18 - 715+97	UPPER LAYER	MILLED EXISTING HMA PAVEMENT	4 MT 58-28 S	9,815	2"	INCENTIVE AIR VOIDS PWL HMA PAVEMENT 460.2010	INCENTIVE DENSITY PWL HMA PAVEMENT 460.2005
TURN LANES BYPASS LANES & SHOULDERS	92+18 - 715+97	UPPER LAYER	MILLED EXISTING HMA PAVEMENT	4 MT 58-28 S	7,730	2"	INCENTIVE AIR VOIDS PWL HMA PAVEMENT 460.2010	ACCEPTANCE TESTING BY THE DEPARTMENT; NOT ELIGIBLE FOR INCENTIVE

RUMBLE STRIP

STATION	TO	STATION	465.0425 2-LANE SHOULDER RUMBLE STRIP LF	465.0475 2-LANE CENTERLINE RUMBLE STRIP LF
92+20		715+87	---	57,735
92+20		304+87, RT	15,836	---
92+20		307+90, LT	17,040	---
TOTALS			32,876	57,735

NOTE: ALL SHOULDER RUMBLE STRIP TO BE TYPE 1.

3

FLUMES

STATION	465.0315 ASPHALTIC FLUMES SY
360+35, LT	5
362+77, LT	5
477+55, RT	5
700+56, LT	5
TOTALS	20

RESTORATION ITEMS

STATION	625.0100 TOPSOIL SY	627.0200 MULCHING SY	628.2002 EROSION MAT CLASS I TYPE A SY	629.0210 FERTILIZER TYPE B CWT	630.0130 SEEDING MIXTURE # 30 LB
UNDISTRIBUTED	170	150	20	0.5	3
TOTALS	170	150	20	0.5	3

TO BE USE AROUND ASPHALTIC FLUME REPLACEMENT AND LOCATIONS DETERMINED BY THE FIELD ENGINEER.

INLET PROTECTION

LOCATION	STATION	628.7015 TYPE C EA
USH 45		
	471+80	1
	472+00	1
DES PLANES RIVER		
	518+50	1
TOTALS		3

SAWING

STATION	TO	STATION	690.0150 SAWING ASPHALT LF
92+18.17	-	118+50	197
118+50	-	148+00	-
148+00	-	178+00	45
178+00	-	208+00	36
208+00	-	237+00	-
237+00	-	267+00	69
267+00	-	297+00	-
297+00	-	327+00	418
327+00	-	356+00	369
356+00	-	385+25	182
385+25	-	414+50	249
414+50	-	444+50	383
444+50	-	474+50	691
474+50	-	504+00	242
504+00	-	533+50	185
533+50	-	563+00	288
563+00	-	592+50	223
592+50	-	621+50	388
621+50	-	649+25	246
649+25	-	678+75	205
678+75	-	708+00	236
708+00	-	715+97.28	143
TOTALS			4795

TRAFFIC CONTROL ITEMS

LOCATION	STAGE	643.0420 TRAFFIC CONTROL BARRICADES TYPE III EACH	643.0420 DAYS	643.0705 TRAFFIC CONTROL WARNING LIGHTS TYPE A EACH	643.0705 DAYS	643.0900 TRAFFIC CONTROL SIGNS EACH	643.0900 DAYS	643.1050 SIGNS PCMS EACH	643.1050 DAYS	643.5000 TRAFFIC CONTROL EACH
CTH J to STH 45	1	16	61	32	61	157	61	1	7	---
	2	16	77	32	77	157	77	1	7	---
STH 45 to W Frontage Rd	1	16	61	32	61	157	61	1	7	---
	2	16	77	32	77	157	77	1	7	---
PROJECT										1
TOTALS			4,416		8,832		43,332		28	1

GEOGRID

STATION	* 645.0135 GEOGRID TYPE SR SY
UNDISTRIBUTED	1440
TOTALS	1440

* TO BE USED UNDER BREAKER RUN. EXACT LOCATIONS TO BE DETERMINED BY THE FIELD ENGINEER AFTER MILLING OPERATION IS COMPLETED.

3

SIGN NO.	SIGN CODE & SIZE	SIGN MESSAGE	SIGN SIZE W [IN.]	x x	H [IN.]	637.2230 SIGNS TYPE II REFLC F [SF]	638.2602 REMOVING SIGNS TYPE II [EA]	638.3000 REMOVING SMALL SIGN SUPPORTS [EA]	634.0618 WOOD POSTS 4"X 6"x18' [EA]	638.2102 MOVE SIGNS TYPE II [EA]	MOUNT ON SAME POST AS SIGN #	REMARKS / NEW SIGN LOCATION
1	W11-7	--	--	x	--	--	--	1	1	1	--	--
2	R7-1R	--	--	x	--	--	--	1	1	1	--	--
3	R7-1D	--	--	x	--	--	--	1	1	1	--	--
4	R7-1D	--	--	x	--	--	--	1	1	1	--	--
5	J1-1	--	--	x	--	--	--	1	1	1	--	--
6	R7-1D	--	--	x	--	--	--	1	1	1	--	--
7	R7-1D	--	--	x	--	--	--	1	1	1	--	--
8	R7-1D	--	--	x	--	--	--	1	1	1	--	--
9	W3-1	--	--	x	--	--	--	1	1	1	--	--
10	W3-1	--	--	x	--	--	--	1	1	1	--	--
11	R7-1L	--	--	x	--	--	--	1	1	1	--	--
12	R7-1D	--	--	x	--	--	--	1	1	1	--	--
13	R7-1D	--	--	x	--	--	--	1	1	1	--	--
14	R7-1D	--	--	x	--	--	--	1	1	1	--	--
15	R7-1D	--	--	x	--	--	--	1	1	1	--	--
16	R7-1D	--	--	x	--	--	--	1	1	1	--	--
17	R7-1D	--	--	x	--	--	--	1	1	1	--	--
18	R7-1D	--	--	x	--	--	--	1	1	1	--	--
19	R7-1D	--	--	x	--	--	--	1	1	1	--	--
20	R7-1D	--	--	x	--	--	--	1	1	1	--	--
21	R7-1D	--	--	x	--	--	--	1	1	1	--	--
22	R7-1D	--	--	x	--	--	--	1	1	1	--	--
23	R7-1D	--	--	x	--	--	--	1	1	1	--	--
24	W14-3	--	--	x	--	--	--	1	1	1	--	--
25	W14-3	--	--	x	--	--	--	1	1	1	--	--
26	R7-1D	--	--	x	--	--	--	1	1	1	--	--
27	R7-1D	--	--	x	--	--	--	1	1	1	--	--
28	R7-1D	--	--	x	--	--	--	1	1	1	--	--
29	R7-1D	--	--	x	--	--	--	1	1	1	--	--
30	R7-1D	--	--	x	--	--	--	1	1	1	--	--
31	R7-1D	--	--	x	--	--	--	1	1	1	--	--
32	J1-1	--	--	x	--	--	--	1	1	1	--	--
33	R7-1D	--	--	x	--	--	--	1	1	1	--	--
34	R7-1D	--	--	x	--	--	--	1	1	1	--	--
35	R7-1D	--	--	x	--	--	--	1	1	1	--	--

3

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36	R7-1D	--	--	x	--	--	--	1	1	1	--	--
37	W14-3	--	--	x	--	--	--	1	1	1	--	--
38	R7-1D	--	--	x	--	--	--	1	1	1	--	--
39	R7-1D	--	--	x	--	--	--	1	1	1	--	--
40	J13-1	--	--	x	--	--	--	1	1	1	--	--
41	W14-3	--	--	x	--	--	--	1	1	1	--	--
42	R7-1D	--	--	x	--	--	--	1	1	1	--	--
43	J13-1	--	--	x	--	--	--	1	1	1	--	--
44	W1-7	--	--	x	--	--	--	1	1	1	--	--
45	J13-1	--	--	x	--	--	--	1	1	1	--	--
46	R7-1D	--	--	x	--	--	--	1	1	1	--	--
47	R7-1D	--	--	x	--	--	--	1	1	1	--	--
48	J13-1	--	--	x	--	--	--	1	1	1	--	--
49	R7-1D	--	--	x	--	--	--	1	1	1	--	--
50	R7-1D	--	--	x	--	--	--	1	1	1	--	--
51	R7-1D	--	--	x	--	--	--	1	1	1	--	--
52	R7-1D	--	--	x	--	--	--	1	1	1	--	--
53	R7-1D	--	--	x	--	--	--	1	1	1	--	--
54	R7-1D	--	--	x	--	--	--	1	1	1	--	--
55	J1-1	--	--	x	--	--	--	1	1	1	--	--
56	R7-1D	--	--	x	--	--	--	1	1	1	--	--
57	R7-1D	--	--	x	--	--	--	1	1	1	--	--
58	R7-1D	--	--	x	--	--	--	1	1	1	--	--
59	R7-1D	--	--	x	--	--	--	1	1	1	--	--
60	R7-1D	--	--	x	--	--	--	1	1	1	--	--
61	R7-1D	--	--	x	--	--	--	1	1	1	--	--
62	R7-1D	--	--	x	--	--	--	1	1	1	--	--
63	R7-1D	--	--	x	--	--	--	1	1	1	--	--
64	R7-1D	--	--	x	--	--	--	1	1	1	--	--
65	R7-1D	--	--	x	--	--	--	1	1	1	--	--
66	R7-1D	--	--	x	--	--	--	1	1	1	--	--
67	R71D	--	--	x	--	--	--	1	1	1	--	--
68	R7-1D	--	--	x	--	--	--	1	1	1	--	--
69	R7-1D	--	--	x	--	--	--	1	1	1	--	--
70	R7-1D	--	--	x	--	--	--	1	1	1	--	--

3

SIGN NO.	SIGN CODE & SIZE	SIGN MESSAGE	SIGN SIZE W [IN.]	x x	H [IN.]	637.2230 SIGNS TYPE II REFLC F [SF]	638.2602 REMOVING SIGNS TYPE II [EA]	638.3000 REMOVING SMALL SIGN SUPPORTS [EA]	634.0618 WOOD POSTS 4"X 6"x18' [EA]	638.2102 MOVE SIGNS TYPE II [EA]	MOUNT ON SAME POST AS SIGN #	REMARKS / NEW SIGN LOCATION
71	R7-1D	--	--	x	--	--	--	1	1	1	--	--
72	R7-1D	--	--	x	--	--	--	1	1	1	--	--
73	R7-1D	--	--	x	--	--	--	1	1	1	--	--
74	W11-2	--	--	x	--	--	--	1	1	1	--	MOVE TO STA 255+00
75	W16-9P	--	--	x	--	--	--	--	--	1	#74	MOVE TO STA 255+00
76	R7-1D	--	--	x	--	--	--	1	1	1	--	--
77	R7-1D	--	--	x	--	--	--	1	1	1	--	--
78	R7-1D	--	--	x	--	--	--	1	1	1	--	--
79	R7-1D	--	--	x	--	--	--	1	1	1	--	--
80	R7-1D	--	--	x	--	--	--	1	1	1	--	--
81	R7-1D	--	--	x	--	--	--	1	1	1	--	--
82	M1-86	--	--	x	--	--	--	1	1	1	--	--
83	M1-88A	--	--	x	--	--	--	--	--	1	#82	--
84	R7-1D	--	--	x	--	--	--	1	1	1	--	--
85	W11-2	--	--	x	--	--	--	1	1	1	--	--
86	W16-7L	--	--	x	--	--	--	--	--	1	#85	--
87	R7-1D	--	--	x	--	--	--	1	1	1	--	--
88	W11-2	--	--	x	--	--	--	1	1	1	--	--
89	W16-7L	--	--	x	--	--	--	--	--	1	#88	--
90	R7-1D	--	--	x	--	--	--	1	1	1	--	--
91	R7-1D	--	--	x	--	--	--	1	1	1	--	--
92	W11-2	--	--	x	--	--	--	1	1	1	--	--
93	W16-7L	--	--	x	--	--	--	--	--	1	#92	--
94	M1-86	--	--	x	--	--	--	1	1	1	--	--
95	M1-88A	--	--	x	--	--	--	--	--	1	#94	--
96	W11-2	--	--	x	--	--	--	1	1	1	--	--
97	W16-7L	--	--	x	--	--	--	--	--	1	#96	--
98	R7-1D	--	--	x	--	--	--	1	1	1	--	--
99	R7-1D	--	--	x	--	--	--	1	1	1	--	--
100	R7-1D	--	--	x	--	--	--	1	1	1	--	--
101	R7-1D	--	--	x	--	--	--	1	1	1	--	--
102	R7-1D	--	--	x	--	--	--	1	1	1	--	--
102A	R7-1D	--	--	x	--	--	--	1	1	1	--	--
103	W14-3	--	--	x	--	--	--	1	1	1	--	--
104	W11-2	--	--	x	--	--	--	1	1	1	--	MOVE TO STA 283+00
105	W16-9P	--	--	x	--	--	--	--	--	1	#104	MOVE TO STA 283+00

3

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106	R7-1D	--	--	x	--	--	--	--	1	1	--	NEW POST - SAME LOCATION
107	S5-2	--	--	x	--	--	--	1	1	1	--	--
108	I55-56	--	--	x	--	--	--	1	1	1	--	--
109	I55-56P	--	--	x	--	--	--	--	--	1	#108	--
110	S1-1	--	--	x	--	--	--	1	1	1	--	--
111	S16-9P	--	--	x	--	--	--	--	--	1	#110	--
112	R2-6P	--	--	x	--	--	--	--	--	1	#110	--
113	J1-1	--	--	x	--	--	--	--	--	--	--	--
114	W3-1	--	--	x	--	--	--	1	1	1	--	--
115	W3-1	--	--	x	--	--	--	1	1	1	--	--
116	D2-1	BURLINGTON 9	--	x	--	--	--	2	2	1	--	--
117	J2-2	--	--	x	--	--	--	2	2	1	--	--
118	W3-1	--	--	x	--	--	--	1	1	1	--	--
119	W3-1	--	--	x	--	--	--	1	1	1	--	--
120	R2-1	--	--	x	--	--	--	1	1	1	--	--
121	R7-1D	--	--	x	--	--	--	1	1	1	--	--
122	J4-1	--	--	x	--	--	--	1	1	1	--	--
123	S1-1	--	--	x	--	--	--	1	1	1	--	--
124	S16-9P	--	--	x	--	--	--	--	--	1	#123	--
125	R2-6P	--	--	x	--	--	--	--	--	1	#123	--
126	J3-2	--	--	x	--	--	--	2	2	1	--	--
127	J2-2	--	--	x	--	--	--	2	2	1	--	--
128	W3-1	--	--	x	--	--	--	1	1	1	--	--
129	W3-1	--	--	x	--	--	--	1	1	1	--	--
130	D1-3	--	--	x	--	--	--	2	2	1	--	--
131	W14-3	--	--	x	--	--	--	1	1	1	--	--
132	R2-1	--	--	x	--	--	--	--	--	1	#131	BACK OF SIGN #131
133	I55-56	--	--	x	--	--	--	1	1	1	--	--
134	I55-56P	--	--	x	--	--	--	--	--	1	#133	--
135	S5-2	--	--	x	--	--	--	1	1	1	--	MOVE TO STA 308 ABOVE R7-1R
136	D2-1	--	--	x	--	--	--	2	2	1	--	MOVE SIGN 100' EAST
137	J4-1	--	--	x	--	--	--	--	1	1	--	NEW POST - SAME LOCATION
138	J3-2	--	--	x	--	--	--	2	2	1	--	--
139	R7-1D	--	--	x	--	--	--	1	1	1	--	--
140	R7-1D	--	--	x	--	--	--	1	1	1	--	--

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141	D1-3	--	--	x	--	--	--	2	2	1	--	--
142	J1-1	--	--	x	--	--	--	1	1	1	--	--
143	R59-51	--	--	x	--	--	--	1	1	1	--	--
144	J1-1	--	--	x	--	--	--	1	1	1	--	--
145	W3-1	--	--	x	--	--	--	1	1	1	--	--
145A	W3-1	--	--	x	--	--	--	1	1	1	--	--
146	W14-3	--	--	x	--	--	--	1	1	1	--	--
147	J13-1	--	--	x	--	--	--	1	1	1	--	MOVE TO NEW LOCATION
148	J13-1	--	--	x	--	--	--	1	1	1	--	MOVE TO NEW LOCATION
149	W1-2R	--	--	x	--	--	--	1	1	1	--	--
150	W1-2L	--	--	x	--	--	--	1	1	1	--	--
151	W1-2L	--	--	x	--	--	--	1	1	1	--	--
152	J1-1	--	--	x	--	--	--	1	1	1	--	--
153	S3-1	--	--	x	--	--	--	1	1	1	--	--
154	W11-5	--	--	x	--	--	--	1	1	1	--	--
155	W1-2R	--	--	x	--	--	--	1	1	1	--	--
156	D1-1	--	--	x	--	--	--	2	2	1	--	--
157	W1-7(2S)	--	48	x	24	8.000	--	--	1	--	--	--
158	D1-1	224TH AVE	--	x	--	--	--	2	2	1	--	--
159	W1-7(2S)	--	48	x	24	8.000	--	--	1	--	--	--
160	W14-3	--	--	x	--	--	--	1	1	1	--	--
161	W14-3	--	--	x	--	--	--	1	1	1	--	--
162	W14-3	--	--	x	--	--	--	1	1	1	--	--
163	W14-3	--	--	x	--	--	--	1	1	1	--	--
164	J1-1	--	--	x	--	--	--	1	1	1	--	--
165	W3-1	--	--	x	--	--	--	1	1	1	--	--
166	W14-3	--	--	x	--	--	--	--	--	1	#165	BACK OF SIGN #165
167	J2-3	--	--	x	--	--	--	1	1	1	--	--
168	W14-3	--	--	x	--	--	--	1	1	1	--	--
169	D1-3	--	--	x	--	--	--	2	2	1	--	--
170	I55-56	--	--	x	--	--	--	1	1	1	--	--
171	I55-56P	--	--	x	--	--	--	--	--	1	#170	--
172	R2-1	--	--	x	--	--	--	--	--	1	#168	BACK OF SIGN #168
173	J4-1	--	--	x	--	--	--	--	1	1	--	MOVE ONTO SEPARATE POST
174	D2-1	BURLINGTON 12	--	x	--	--	--	2	2	1	--	--
175	D1-3	--	--	x	--	--	--	2	2	1	--	--

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176	J2-3	--	--	x	--	--	--	2	2	1	--	--
177	W3-1	--	--	x	--	--	--	1	1	1	--	--
178	J1-1	--	--	x	--	--	--	1	1	1	--	--
179	D12-2A	--	--	x	--	--	--	2	2	1	--	--
180	D2-1	KENOSHA 12	--	x	--	--	--	2	2	1	--	--
181	I55-56	--	--	x	--	--	--	1	1	1	--	--
182	I55-56P	--	--	x	--	--	--	--	--	1	#181	--
183	R2-1	--	--	x	--	--	--	1	1	1	--	--
184	W11-6	--	--	x	--	--	--	1	1	1	--	--
185	W14-3	--	--	x	--	--	--	1	1	1	--	--
186	W14-3	--	--	x	--	--	--	1	1	1	--	--
187	J1-1	--	--	x	--	--	--	1	1	1	--	--
188	W14-3	--	--	x	--	--	--	1	1	1	--	--
189	W14-3	--	--	x	--	--	--	1	1	1	--	--
190	R59-51	--	--	x	--	--	--	1	1	1	--	--
191	J13-1	--	--	x	--	--	--	1	1	1	--	MOVE TO NEW LOCATION
192	J13-1	--	--	x	--	--	--	1	1	1	--	--
193	W1-7(2S)	--	48	x	24	8.000	--	--	1	--	--	--
194	J1-1	--	--	x	--	--	--	1	1	1	--	--
195	S3-1	--	--	x	--	--	--	1	1	1	--	--
196	J1-1	--	--	x	--	--	--	1	1	1	--	--
197	W1-7(2S)	--	48	x	24	8.000	--		1		--	--
198	J13-1	--	--	x	--	--	--	1	1	1	--	--
199	W14-3	--	--	x	--	--	--	1	1	1	--	--
200	J13-1	--	--	x	--	--	--	1	1	1	--	--
201	J2-2	--	--	x	--	--	--	1	1	1	--	--
202	W14-3	--	--	x	--	--	--	1	1	1	--	--
203	J13-1	--	--	x	--	--	--	1	1	1	--	--
204	W1-7(2S)	--	48	x	24	8.000	--	--	1	--	--	--
205	J13-1	--	--	x	--	--	--	1	1	1	--	MOVE TO NEW LOCATION
206	J2-2	--	--	x	--	--	--	1	1	1	--	--
207	J1-1	--	--	x	--	--	--	1	1	1	--	--
208	W1-4R	--	--	x	--	--	--	1	1	1	--	--
209	W11-8	--	--	x	--	--	--	1	1	1	--	--
210	W14-3	--	--	x	--	--	--	1	1	1	--	--

3

SIGN NO.	SIGN CODE & SIZE	SIGN MESSAGE	SIGN SIZE W [IN.]	x x	H [IN.]	637.2230 SIGNS TYPE II REFLC F [SF]	638.2602 REMOVING SIGNS TYPE II [EA]	638.3000 REMOVING SMALL SIGN SUPPORTS [EA]	634.0618 WOOD POSTS 4"X 6"x18' [EA]	638.2102 MOVE SIGNS TYPE II [EA]	MOUNT ON SAME POST AS SIGN #	REMARKS / NEW SIGN LOCATION
211	W1-4R	--	--	x	--	--	--	1	1	1	--	--
212	J1-1	--	--	x	--	--	--	1	1	1	--	--
213	J2-2	--	--	x	--	--	--	1	1	1	--	--
214	W8-6	--	--	x	--	--	--	1	1	1	--	--
215	I55-56	--	--	x	--	--	--	1	1	1	--	--
216	I55-56P	--	--	x	--	--	--	--	--	1	#215	--
217	W1-7	--	--	x	--	--	--	1	1	1	--	--
218	J13-1	--	--	x	--	--	--	--	1	1	--	MOVE TO SEPARATE POST
219	J12-1	--	--	x	--	--	--	1	1	1	--	--
220	W8-6	--	--	x	--	--	--	1	1	1	--	--
221	W14-3	--	--	x	--	--	--	1	1	1	--	--
222	W14-3	--	--	x	--	--	--	1	1	1	--	--
223	I55-56	--	--	x	--	--	--	1	1	1	--	--
224	I55-56P	--	--	x	--	--	--	--	--	1	#223	--
225	J13-1	--	--	x	--	--	--	1	1	1	--	MOVE TO NEW LOCATION
226	J1-1	--	--	x	--	--	--	1	1	1	--	--
227	W1-2R	--	--	x	--	--	--	1	1	1	--	--
228	W1-6	--	--	x	--	--	--	1	1	1	--	--
229	W1-6	--	--	x	--	--	--	1	1	1	--	--
230	JV1-1	--	--	x	--	--	--	1	1	1	--	--
231	W2-1	--	--	x	--	--	--	1	1	1	--	--
232	W2-1	--	--	x	--	--	--	1	1	1	--	--
233	W1-2L	--	--	x	--	--	--	1	1	1	--	--
234	J2-2	--	--	x	--	--	--	1	1	1	--	--
235	W14-3	--	--	x	--	--	--	1	1	1	--	--
236	J13-2	--	--	x	--	--	--	1	1	1	--	MOVE TO NEW LOCATION
237	W14-3	--	--	x	--	--	--	1	1	1	--	--
238	W1-2L	--	--	x	--	--	--	1	1	1	--	--
239	W2-1	--	--	x	--	--	--	1	1	1	--	--
240	W2-1	--	--	x	--	--	--	1	1	1	--	--
241	W1-8	--	--	x	--	--	--	1	1	1	--	4' MOUNT HEIGHT
242	W1-8	--	--	x	--	--	--	1	1	1	--	4' MOUNT HEIGHT
243	JV1-1	--	--	x	--	--	--	1	1	1	--	--
244	W1-8	--	--	x	--	--	--	1	1	1	--	4' MOUNT HEIGHT
245	W1-8	--	--	x	--	--	--	1	1	1	--	4' MOUNT HEIGHT

3

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SIGN NO.	SIGN CODE & SIZE	SIGN MESSAGE	SIGN SIZE W [IN.]	x	H [IN.]	637.2230 SIGNS TYPE II REFLC F [SF]	638.2602 REMOVING SIGNS TYPE II [EA]	638.3000 REMOVING SMALL SIGN SUPPORTS [EA]	634.0618 WOOD POSTS 4"X 6"x18' [EA]	638.2102 MOVE SIGNS TYPE II [EA]	MOUNT ON SAME POST AS SIGN #	REMARKS / NEW SIGN LOCATION
246	W1-8	--	--	x	--	--	--	1	1	1	--	4' MOUNT HEIGHT
247	W1-8	--	--	x	--	--	--	--	--	1	#244	4' MOUNT HEIGHT
248	W1-8	--	--	x	--	--	--	--	--	1	#245	4' MOUNT HEIGHT
249	W1-8	--	--	x	--	--	--	--	--	1	#246	4' MOUNT HEIGHT
250	W1-8	--	--	x	--	--	--	--	--	1	#241	4' MOUNT HEIGHT
251	W1-8	--	--	x	--	--	--	--	--	1	#242	4' MOUNT HEIGHT
252	W1-2R	--	--	x	--	--	--	1	1	1	--	--
253	W14-3	--	--	x	--	--	--	1	1	1	--	--
254	W6-3	--	--	x	--	--	--	1	1	--	--	--
255	D1-1	128TH AVE	--	x	--	--	--	2	2	1	--	--
256	J3-2	--	--	x	--	--	--	1	1	1	--	MOVE TO NEW LOCATION - SHEET 41
257	W1-2L(2M)	--	30	x	30	6.250	--	--	1	--	--	SHEET 3
258	W1-2R(2M)	--	30	x	30	6.250	--	--	1	--	--	SHEET 5
259	W1-2L(2M)	--	30	x	30	6.250	--	--	1	--	--	SHEET 5
260	W1-2R(2M)	--	30	x	30	6.250	--	--	1	--	--	SHEET 6
261	W11-2(2S)	--	30	x	30	6.250	--	--	1	--	--	SHEET 12
262	W16-9P(2S)	--	24	x	12	2.000	--	--	--	--	#261	SHEET 12
263	W11-2(2S)	--	30	x	30	6.250	--	--	1	--	--	SHEET 13
264	W16-7R(2S)	--	24	x	12	2.000	--	--	--	--	#263	SHEET 13
265	W11-2(2S)	--	30	x	30	6.250	--	--	1	--	--	SHEET 13
266	W16-7R(2S)	--	24	x	12	2.000	--	--	--	--	#265	SHEET 13
267	W11-2(2S)	--	30	x	30	6.250	--	--		--	#96	SHEET 13. MOUNT ON BACK OF # 96
268	W16-7R(2S)	--	24	x	12	2.000	--	--	--	--	#267	SHEET 13
269	W11-2(2S)	--	30	x	30	6.250	--	--		--	92	SHEET 13. MOUNT ON BACK OF # 92
270	W16-7R(2S)	--	24	x	12	2.000	--	--	--	--	#269	SHEET 13
271	W11-2(2S)	--	30	x	30	6.250	--	--	1	--	--	SHEET 14
272	W16-9P(2S)	--	24	x	12	2.000	--	--	--	--	#271	SHEET 14
273	W1-2L(2M)	--	30	x	30	6.250	--	--	1	--	--	SHEET 21
274	W1-2L(2M)	--	30	x	30	6.250	--	--	1	--	--	SHEET 22
275	W1-2R(2M)	--	30	x	30	6.250	--	--	1	--	--	SHEET 23
276	W3-1(2S)	--	36	x	36	9.000	--	--	1	--	--	SHEET 26
277	W3-1(2S)	--	36	x	36	9.000	--	--	1	--	--	SHEET 27
278	W1-2L(2M)	--	30	x	30	6.250	--	--	1	--	--	SHEET 28
279	W1-4L(2M)	--	30	x	30	6.250	--	--	1	--	--	SHEET 29
280	W1-4L(2M)	--	30	x	30	6.250	--	--	1	--	--	SHEET 30

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SIGN NO.	SIGN CODE & SIZE	SIGN MESSAGE	SIGN SIZE W [IN.]	x x	H [IN.]	637.2230 SIGNS TYPE II REFLC F [SF]	638.2602 REMOVING SIGNS TYPE II [EA]	638.3000 REMOVING SMALL SIGN SUPPORTS [EA]	634.0618 WOOD POSTS 4"X 6"x18' [EA]	638.2102 MOVE SIGNS TYPE II [EA]	MOUNT ON SAME POST AS SIGN #	REMARKS / NEW SIGN LOCATION
281	J2-1	--	--	x	--	--	1	1	1	--	--	SHEET 30
282	W5-52R	--	--	x	--	--	--	1	1	1	--	SHEET 30
283	W5-52L	--	--	x	--	--	--	1	1	1	--	SHEET 30
284	W5-52R	--	--	x	--	--	--	1	1	1	--	SHEET 30
285	W5-52L	--	--	x	--	--	--	1	1	1	--	SHEET 30
286	R1-1	--	--	x	--	--	--	1	1	1	--	SHEET 13
	TOTALS					170.000	1	245	270	256		

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PAVEMENT MARKING

STATION	TO	STATION	646.1020 MARKING LINE EPOXY 4-INCH (YELLOW) LF	646.1040 MARKING LINE GROOVED WET REF EPOXY 4-INCH SOLID (WHITE) LF	3' LINE / 9'GAP (WHITE) LF	12.5' LINE / 37.5 GAP (YELLOW) LF	12.5' LINE / 37.5 GAP (WHITE) LF	646.3020 MRKING LINE EPOXY 8-INCH SOLID (WHITE) LF	3' LINE/9'GAP (WHITE) LF	646.5020 MARKING ARROW EPOXY (WHITE) EA	646.5120 MARKING WORD EPOXY (WHITE) EA	646.6120 MARKING STOP LINE EPOXY 18-INCH (WHITE) LF	648.0100 LOCATING NO PASSING ZONES MI
92+18.17	-	118+75	6,298	6,198	39	-	-	201	27	1	1	29	---
118+75	-	149+00	2,962	6,050	-	413	-	-	-	-	-	-	---
149+00	-	179+00	2,654	5,871	-	750	100	-	-	-	-	30	---
179+00	-	209+00	-	6,000	-	750	-	-	-	-	-	-	---
209+00	-	239+00	-	6,000	-	750	-	-	-	-	-	-	---
239+00	-	269+00	-	5,857	-	750	-	150	-	1	1	33	---
269+00	-	299+00	1,024	6,000	-	675	-	-	-	-	-	-	---
299+00	-	329+00	3,139	6,023	-	475	-	718	129	6	2	125	---
329+00	-	359+00	4,411	5,751	2	350	-	-	-	-	-	58	---
359+00	-	389+00	6,000	6,000	-	-	-	-	-	-	-	-	---
389+00	-	419+00	6,041	5,883	-	-	63	-	-	-	-	28	---
419+00	-	449+00	3,200	5,877	-	613	63	-	-	-	-	25	---
449+00	-	479+00	6,704	5,769	-	525	-	230	102	4	-	103	---
479+00	-	509+00	4,542	6,000	-	338	-	-	-	-	-	-	---
509+00	-	539+00	2,643	5,942	68	738	38	-	-	-	-	33	---
539+00	-	569+00	3,803	5,662	135	588	163	57	27	-	-	75	---
569+00	-	599+00	6,000	6,000	-	-	-	-	-	1	-	-	---
599+00	-	629+00	2,873	6,000	-	513	-	-	-	-	-	-	---
629+00	-	659+00	2,590	5,864	-	738	75	-	-	-	-	35	---
659+00	-	689+00	5,111	6,000	-	188	-	-	-	-	-	-	---
689+00	-	715+97.28	2,273	5,185	-	613	-	-	-	-	-	90	---
PROJECT													12
SUBTOTAL				123,932	244	9,763	500	1,356	285				
TOTALS			72,268			134,438			1,641	13	4	664	12

CONSTRUCTION STAKING

LOCATION	STATION	650.8000 CONSTRUCTION STAKING RESURFACING REFERENCE LF	650.9910 CONSTRUCTION STAKING SUPPLEMENTAL CONTROL LS
PROJECT	ALL	62,130	1
TOTALS		62,130	1

SECTION CORNER MONUMENTS

POINT	LOCATION	SPV.0060.03 EA
42171	216TH AVE	1
44584	STA 445+83	1
TOTALS		2

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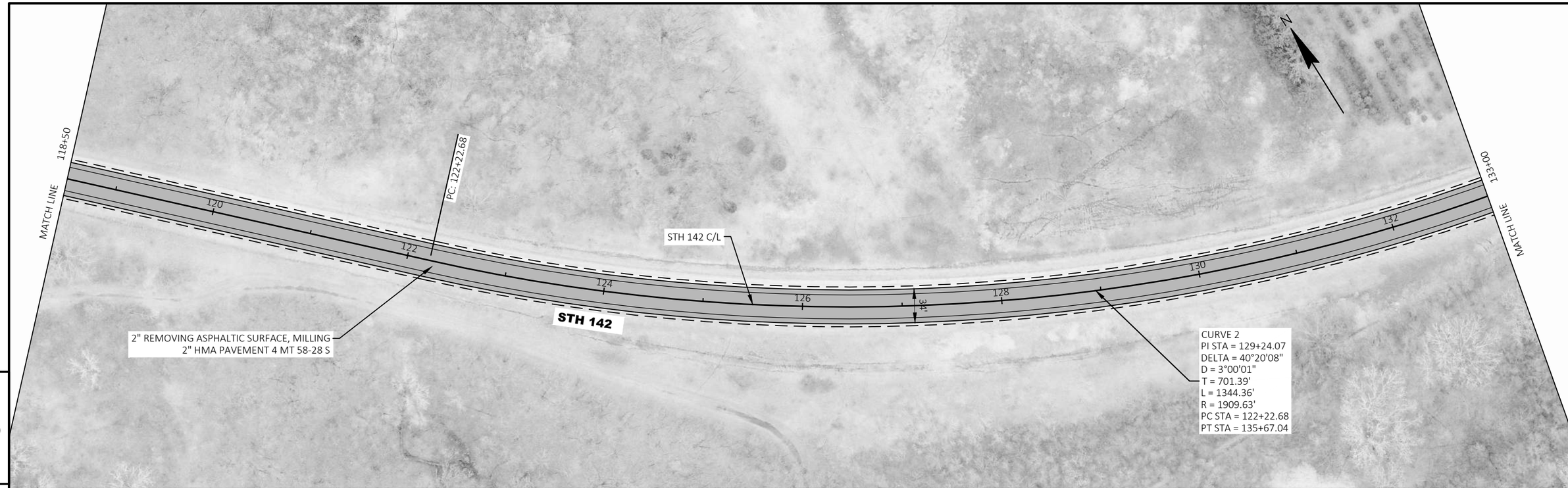
PROJECT NO: 3834-06-70	HWY: STH 142	COUNTY: KENOSHA	PLAN SHEETS	SHEET 96	E

FILE NAME : N:\PDS\C3D\38340600\SHEETSPLAN\050201-PN.DWG
LAYOUT NAME - 01
PLOT DATE : 7/30/2020 4:39 PM
PLOT BY : SILVA, DIEGO
PLOT NAME :
PLOT SCALE : 1 IN:100 FT

WISDOT/CADDS SHEET 44



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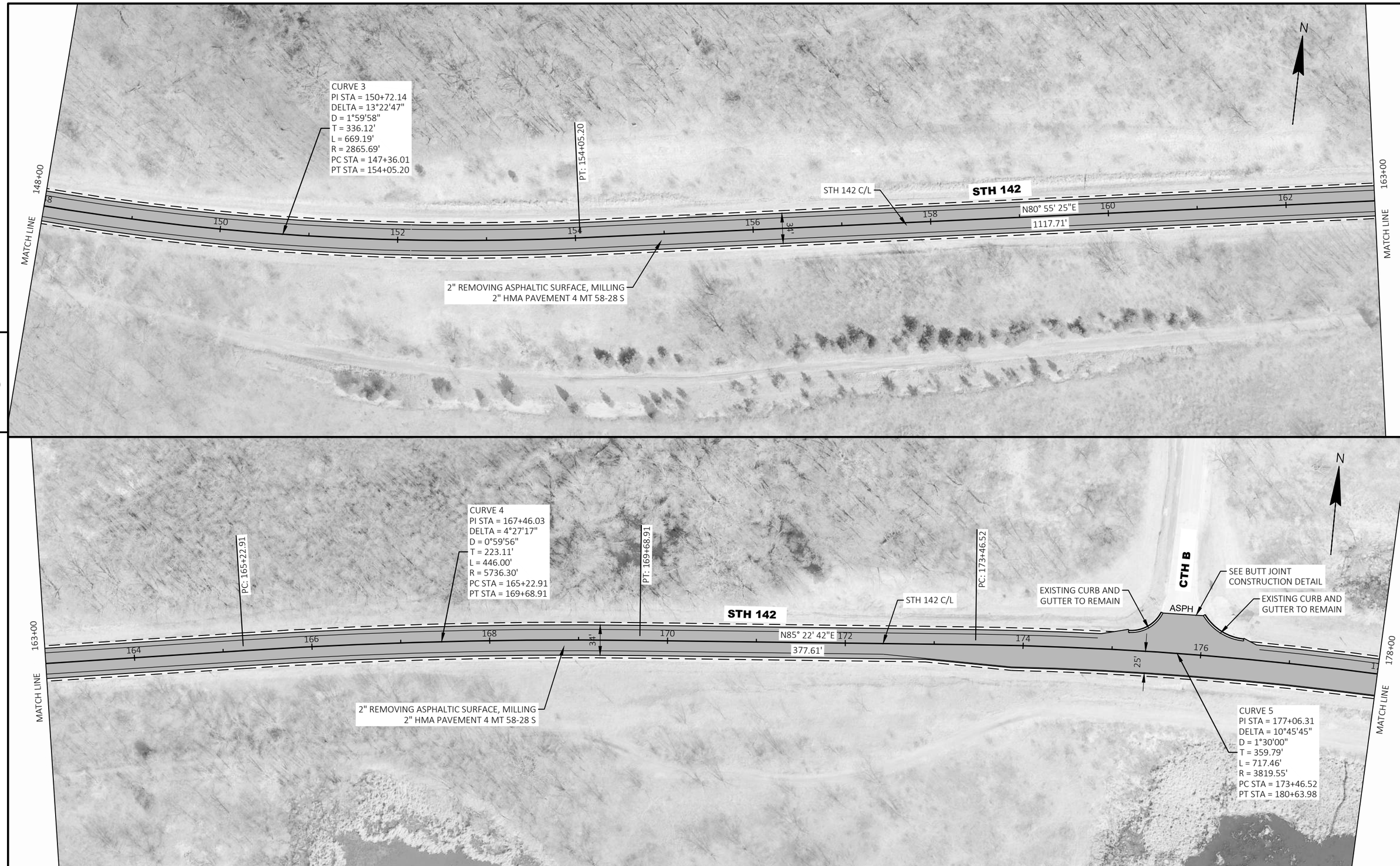
PROJECT NO: 3834-06-70	HWY: STH 142	COUNTY: KENOSHA	PLAN SHEETS	SHEET 97	E

FILE NAME : N:\PDS\C3D\38340600\SHEETSPLAN\050201-PN.DWG
LAYOUT NAME - 02
PLOT DATE : 7/30/2020 4:40 PM
PLOT BY : SILVA, DIEGO
PLOT NAME :
PLOT SCALE : 1 IN:100 FT
WISDOT/CADDS SHEET 44



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PROJECT NO: 3834-06-70	HWY: STH 142	COUNTY: KENOSHA	PLAN SHEETS	SHEET 98	E

FILE NAME : N:\PDS\C3D\38340600\SHEETSPLAN\050201-PN.DWG
LAYOUT NAME - 03
PLOT DATE : 7/30/2020 4:40 PM
PLOT BY : SILVA, DIEGO
PLOT NAME :
PLOT SCALE : 1 IN:100 FT
WISDOT/CADDS SHEET 44

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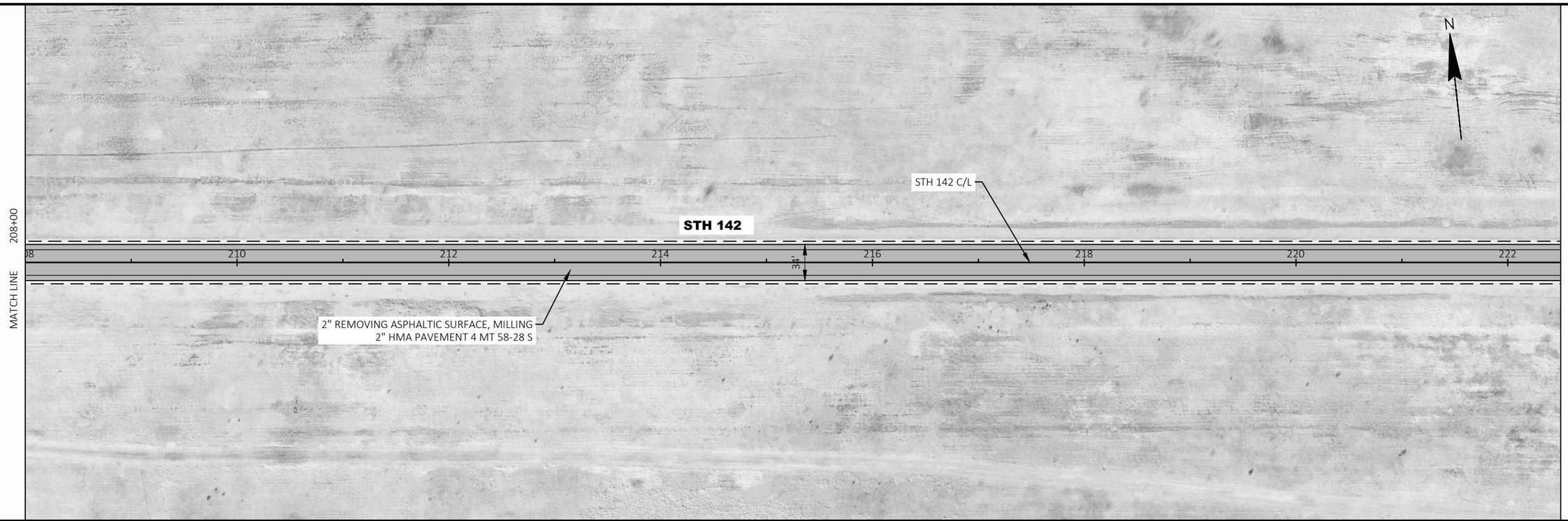
PROJECT NO: 3834-06-70	HWY: STH 142	COUNTY: KENOSHA	PLAN SHEETS	SHEET 99	E

FILE NAME : N:\PDS\C3D\38340600\SHEETSPLAN\050201-PN.DWG
LAYOUT NAME - 04
PLOT DATE : 7/30/2020 4:40 PM
PLOT BY : SILVA, DIEGO
PLOT NAME :
PLOT SCALE : 1 IN:100 FT
WISDOT/CADDS SHEET 44



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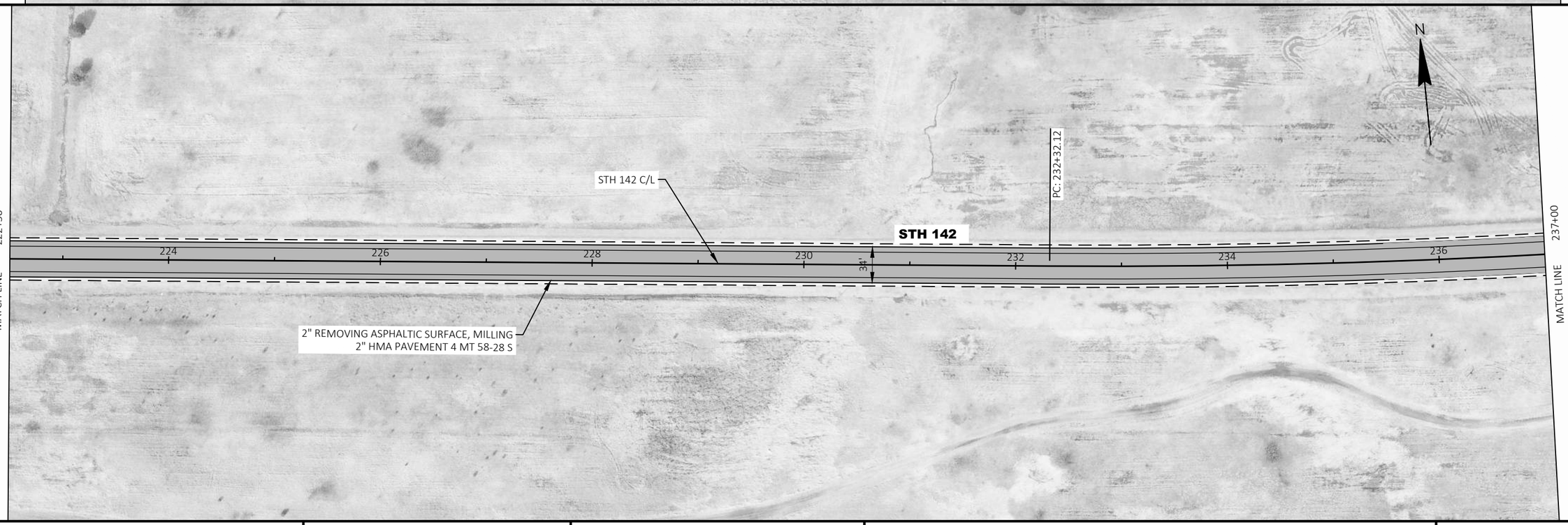
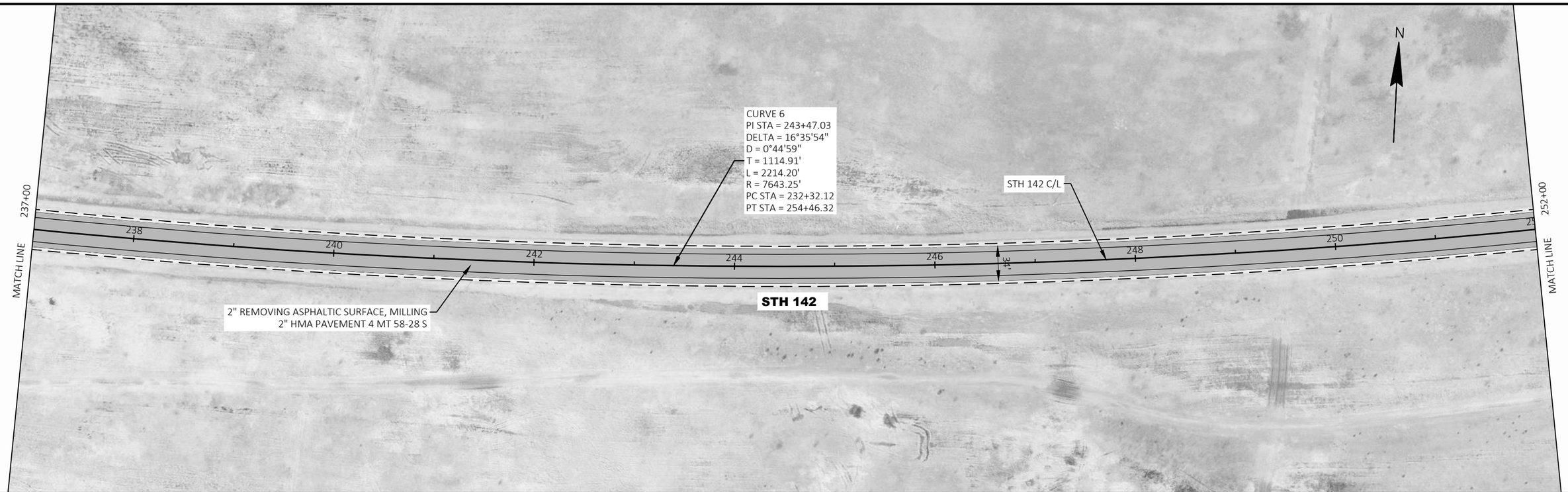


PROJECT NO: 3834-06-70	HWY: STH 142	COUNTY: KENOSHA	PLAN SHEETS	SHEET 100	E

FILE NAME : N:\PDS\C3D\38340600\SHEETSPLAN\050201-PN.DWG
LAYOUT NAME - 05
PLOT DATE : 7/30/2020 4:40 PM
PLOT BY : SILVA, DIEGO
PLOT NAME :
PLOT SCALE : 1 IN:100 FT
WISDOT/CADDS SHEET 44



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PROJECT NO: 3834-06-70	HWY: STH 142	COUNTY: KENOSHA	PLAN SHEETS	SHEET 101	E

FILE NAME : N:\PDS\C3D\38340600\SHEETSPLAN\050201-PN.DWG
LAYOUT NAME - 06
PLOT DATE : 7/30/2020 4:40 PM
PLOT BY : SILVA, DIEGO
PLOT NAME :
PLOT SCALE : 1 IN:100 FT
WISDOT/CADDS SHEET 44

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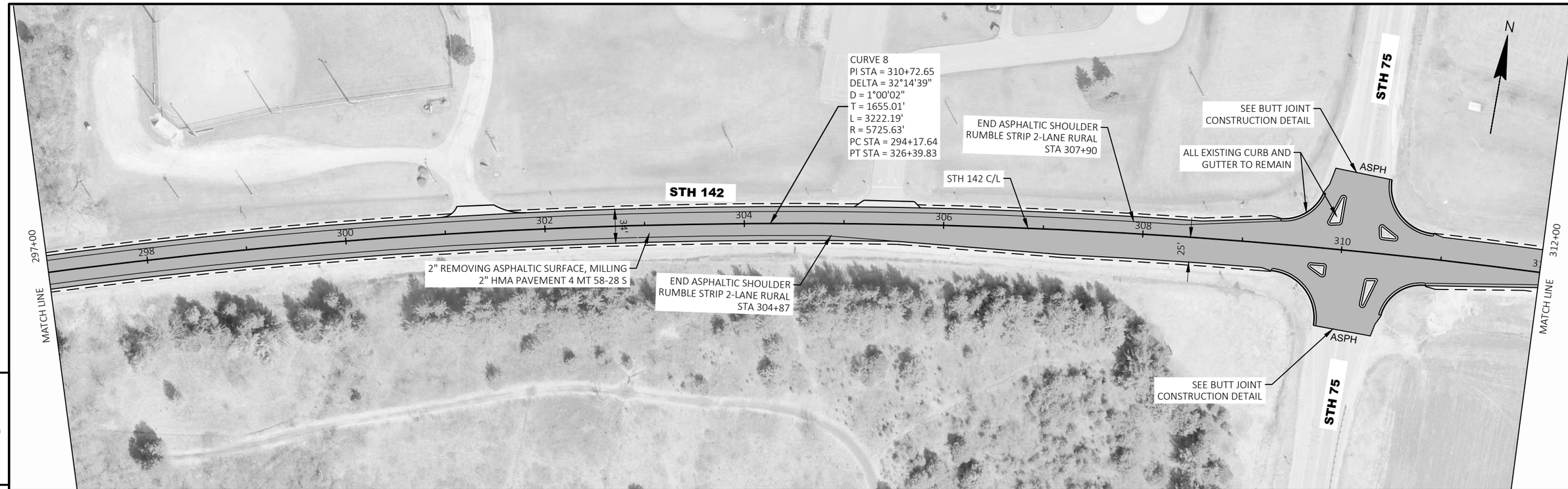
PROJECT NO: 3834-06-70	HWY: STH 142	COUNTY: KENOSHA	PLAN SHEETS	SHEET 102	E

FILE NAME : N:\PDS\C3D\38340600\SHEETSPLAN\050201-PN.DWG
LAYOUT NAME - 07
PLOT DATE : 7/30/2020 4:40 PM
PLOT BY : SILVA, DIEGO
PLOT NAME :
PLOT SCALE : 1 IN:100 FT
WISDOT/CADDS SHEET 44



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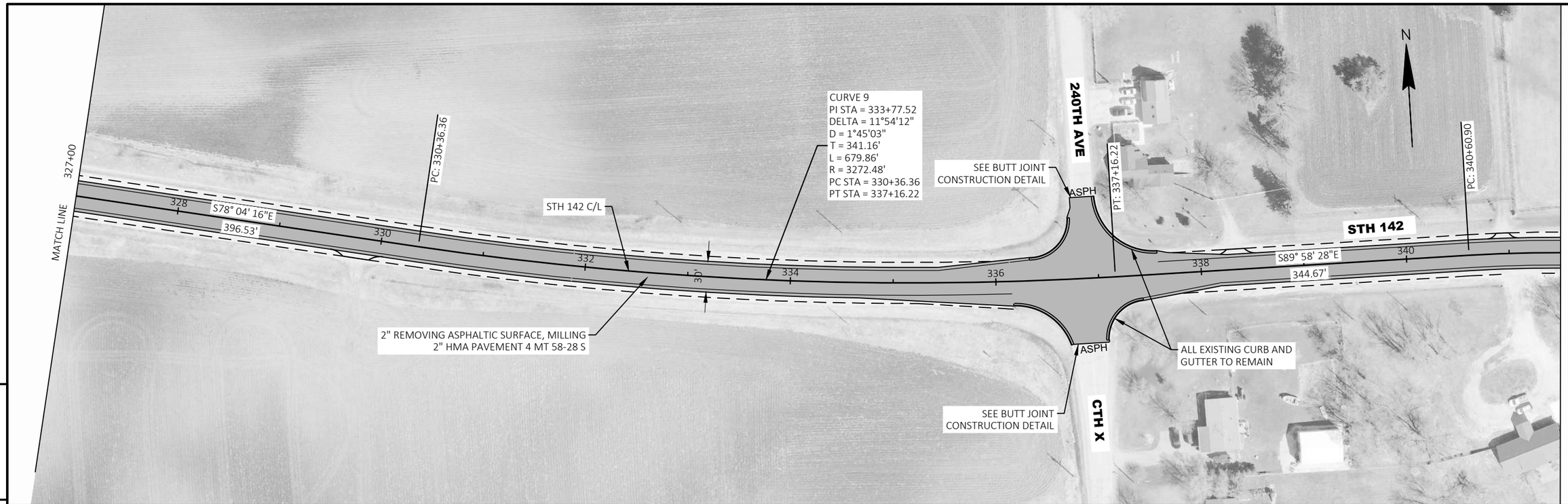
PROJECT NO: 3834-06-70	HWY: STH 142	COUNTY: KENOSHA	PLAN SHEETS	SHEET 103	E

FILE NAME : N:\PDS\C3D\38340600\SHEETSPLAN\050201-PN.DWG
LAYOUT NAME - 08
PLOT DATE : 7/30/2020 4:48 PM
PLOT BY : SILVA, DIEGO
PLOT NAME :
PLOT SCALE : 1 IN:100 FT
WISDOT/CADDS SHEET 44



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PROJECT NO: 3834-06-70	HWY: STH 142	COUNTY: KENOSHA	PLAN SHEETS	SHEET 104	E

FILE NAME : N:\PDS\C3D\38340600\SHEETSPLAN\050201-PN.DWG
LAYOUT NAME - 09
PLOT DATE : 7/30/2020 4:40 PM
PLOT BY : SILVA, DIEGO
PLOT NAME :
PLOT SCALE : 1 IN:100 FT
WISDOT/CADDS SHEET 44

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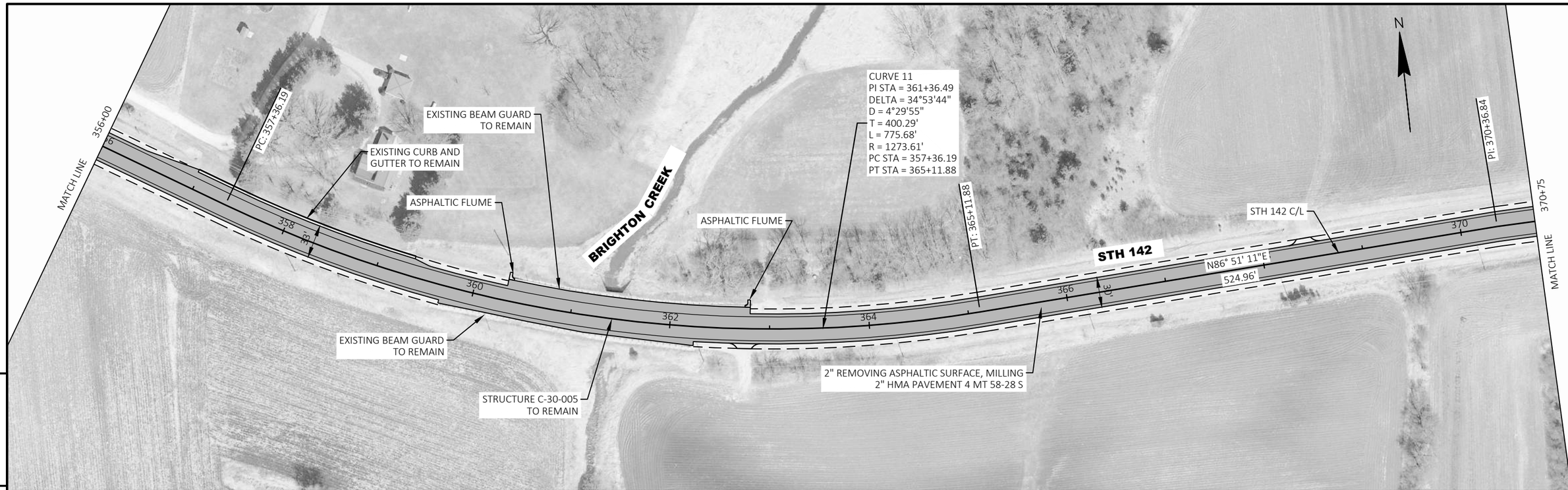

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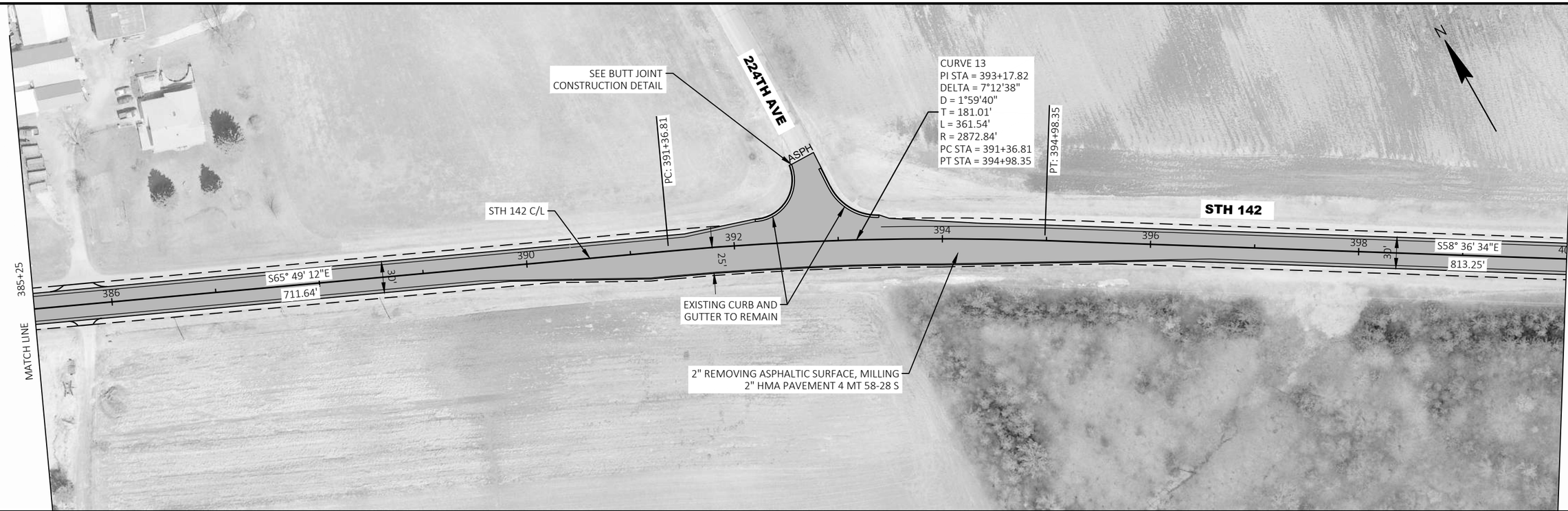
PROJECT NO: 3834-06-70	HWY: STH 142	COUNTY: KENOSHA	PLAN SHEETS	SHEET 105	E

FILE NAME : N:\PDS\C3D\38340600\SHEETSPLAN\050201-PN.DWG
LAYOUT NAME - 10
PLOT DATE : 7/30/2020 4:40 PM
PLOT BY : SILVA, DIEGO
PLOT NAME :
PLOT SCALE : 1 IN:100 FT
WISDOT/CADDS SHEET 44

5



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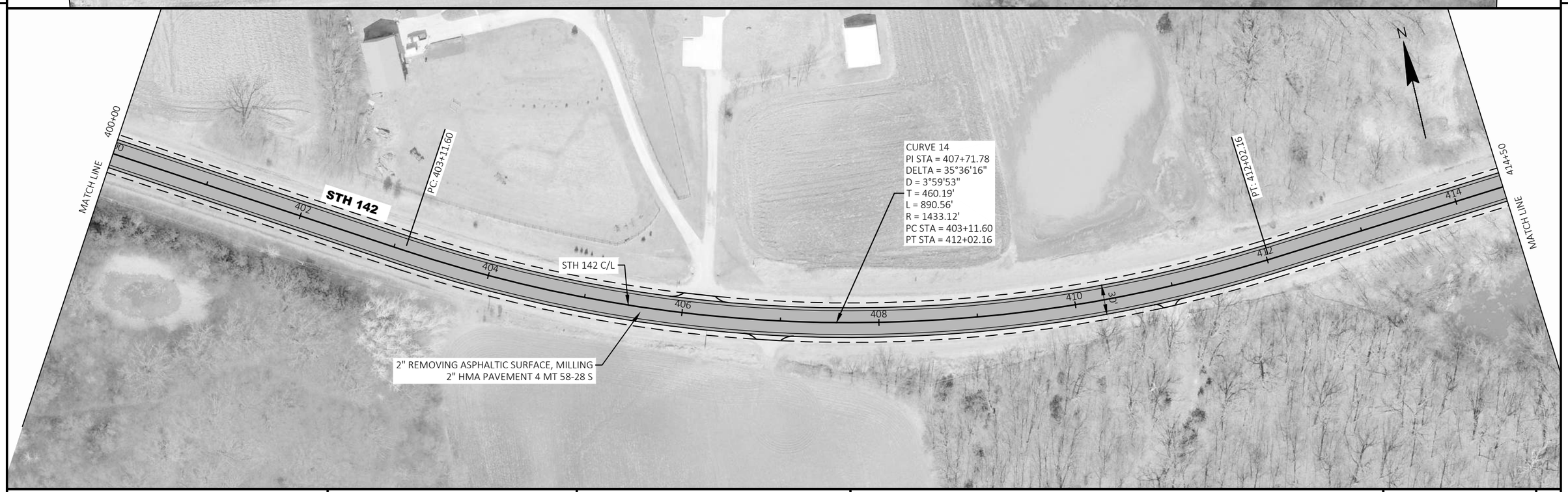
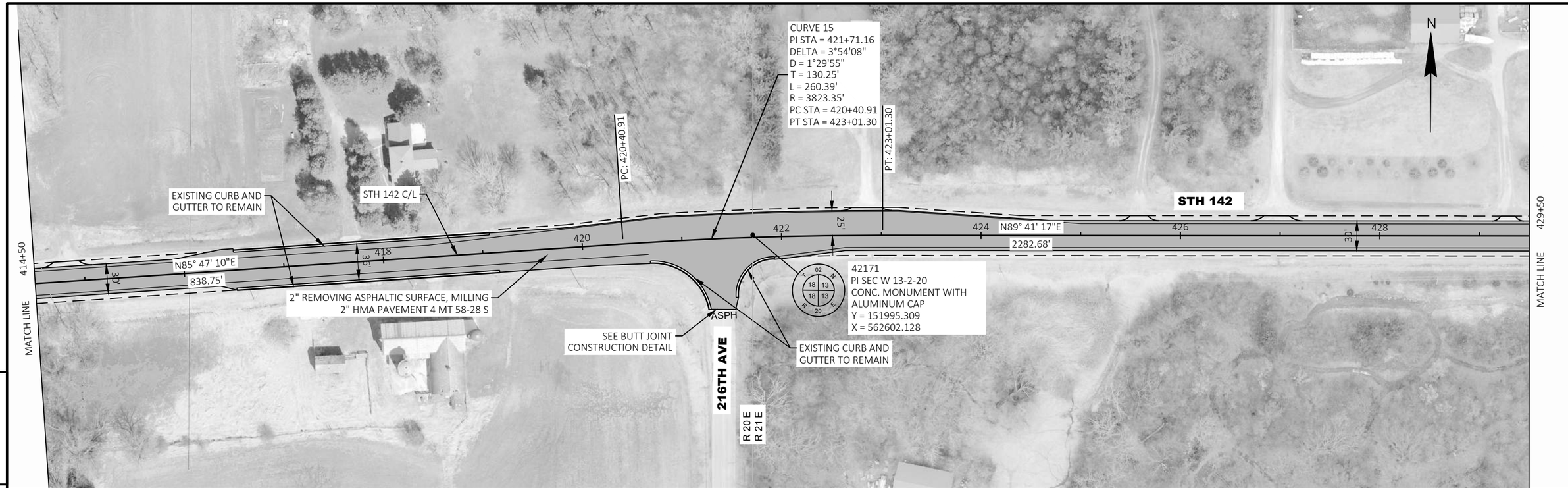
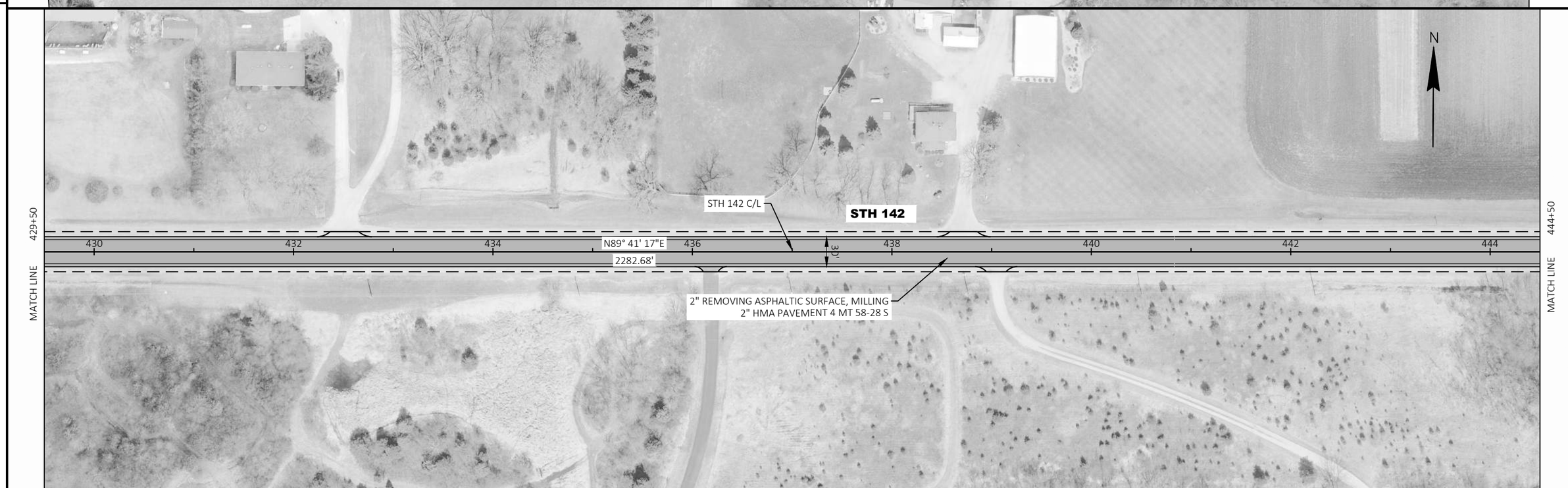


PROJECT NO: 3834-06-70	HWY: STH 142	COUNTY: KENOSHA	PLAN SHEETS	SHEET 106	E

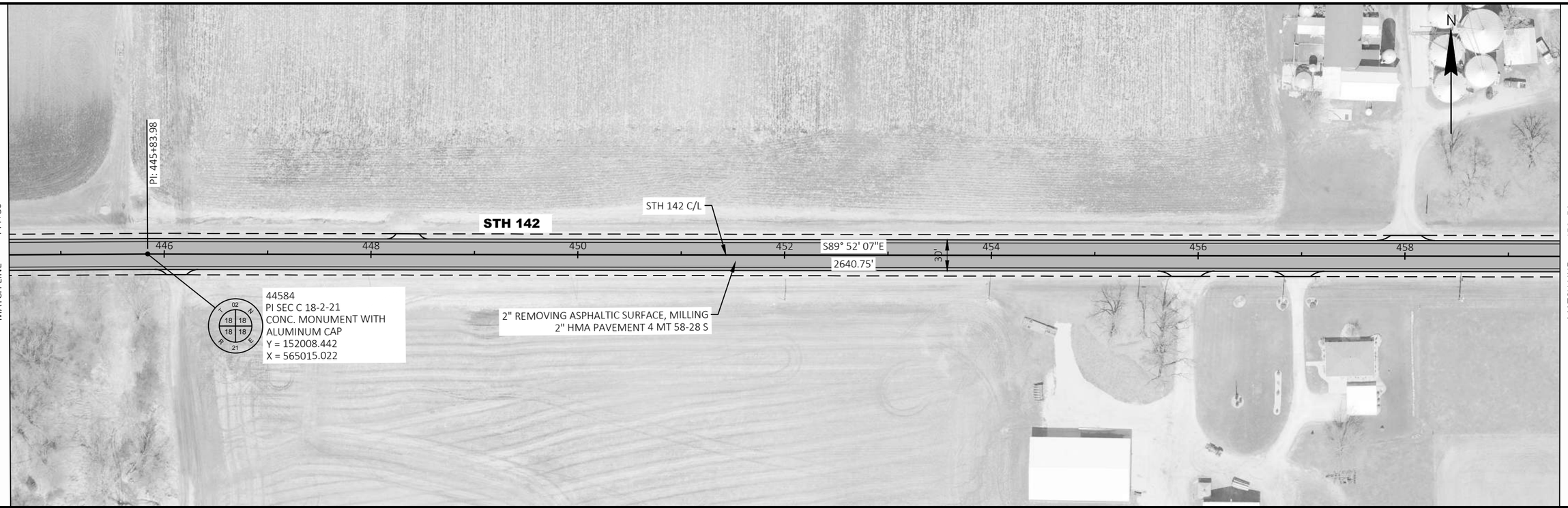
FILE NAME : N:\PDS\C3D\38340600\SHEETSPLAN\050201-PN.DWG
LAYOUT NAME - 11
PLOT DATE : 7/30/2020 4:40 PM
PLOT BY : SILVA, DIEGO
PLOT NAME :
PLOT SCALE : 1 IN:100 FT
WISDOT/CADDS SHEET 44





PROJECT NO: 3834-06-70	HWY: STH 142	COUNTY: KENOSHA	PLAN SHEETS	SHEET 107	E

FILE NAME : N:\PDS\C3D\38340600\SHEETSPLAN\050201-PN.DWG
LAYOUT NAME - 12
PLOT DATE : 7/30/2020 4:41 PM
PLOT BY : SILVA, DIEGO
PLOT NAME :
PLOT SCALE : 1 IN:100 FT
WISDOT/CADDS SHEET 44



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PROJECT NO: 3834-06-70	HWY: STH 142	COUNTY: KENOSHA	PLAN SHEETS	SHEET 108	E

PROJECT NO: 3834-06-70	HWY: STH 142	COUNTY: KENOSHA	PLAN SHEETS	SHEET 109	E

FILE NAME : N:\PDS\C3D\38340600\SHEETSPLAN\050201-PN.DWG
LAYOUT NAME - 14
PLOT DATE : 7/30/2020 4:41 PM
PLOT BY : SILVA, DIEGO
PLOT NAME :
PLOT SCALE : 1 IN:100 FT
WISDOT/CADDS SHEET 44

BENCHMARKS			
NO.	STATION	ELEV.	DESCRIPTION
1	516+28	702.39	19' RT ALUM. WISDOT MONUMENT

5

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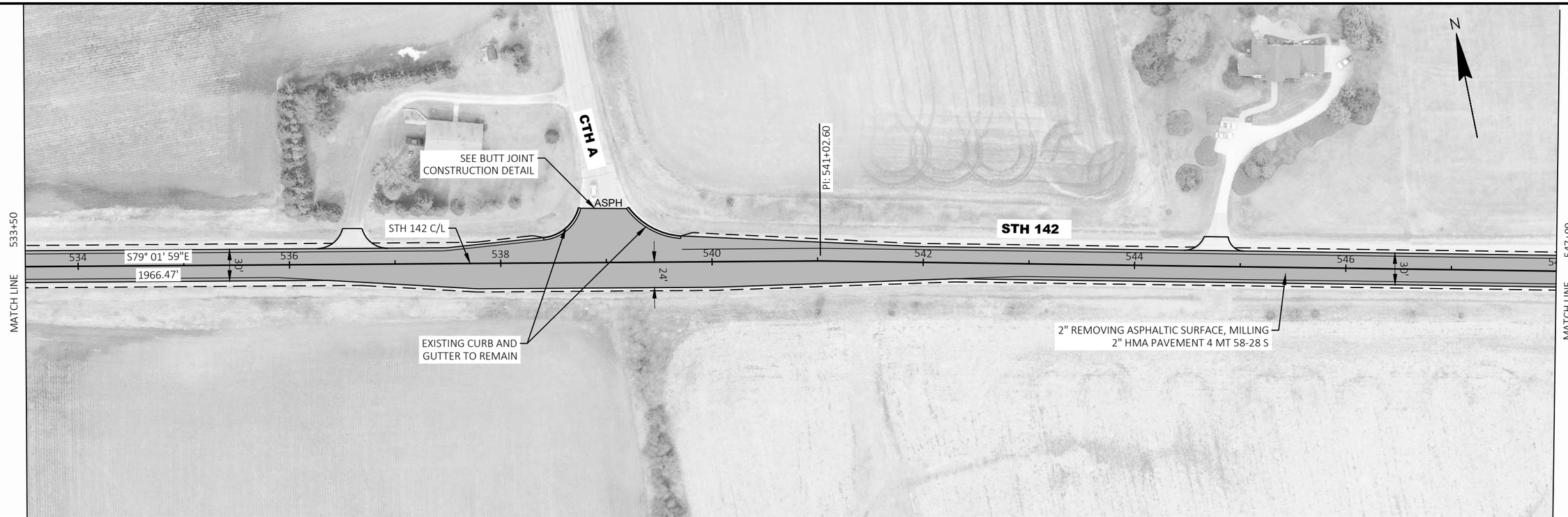
PROJECT NO: 3834-06-70	HWY: STH 142	COUNTY: KENOSHA	PLAN SHEETS	SHEET 110	E

FILE NAME : N:\PDS\C3D\38340600\SHEETSPLAN\050201-PN.DWG
LAYOUT NAME - 15
PLOT DATE : 7/30/2020 4:41 PM
PLOT BY : SILVA, DIEGO
PLOT NAME :
PLOT SCALE : 1 IN:100 FT
WISDOT/CADDS SHEET 44



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PROJECT NO: 3834-06-70	HWY: STH 142	COUNTY: KENOSHA	PLAN SHEETS	SHEET 111	E

FILE NAME : N:\PDS\C3D\38340600\SHEETSPLAN\050201-PN.DWG
LAYOUT NAME - 16
PLOT DATE : 7/30/2020 4:41 PM
PLOT BY : SILVA, DIEGO
PLOT NAME :
PLOT SCALE : 1 IN:100 FT
WISDOT/CADDS SHEET 44

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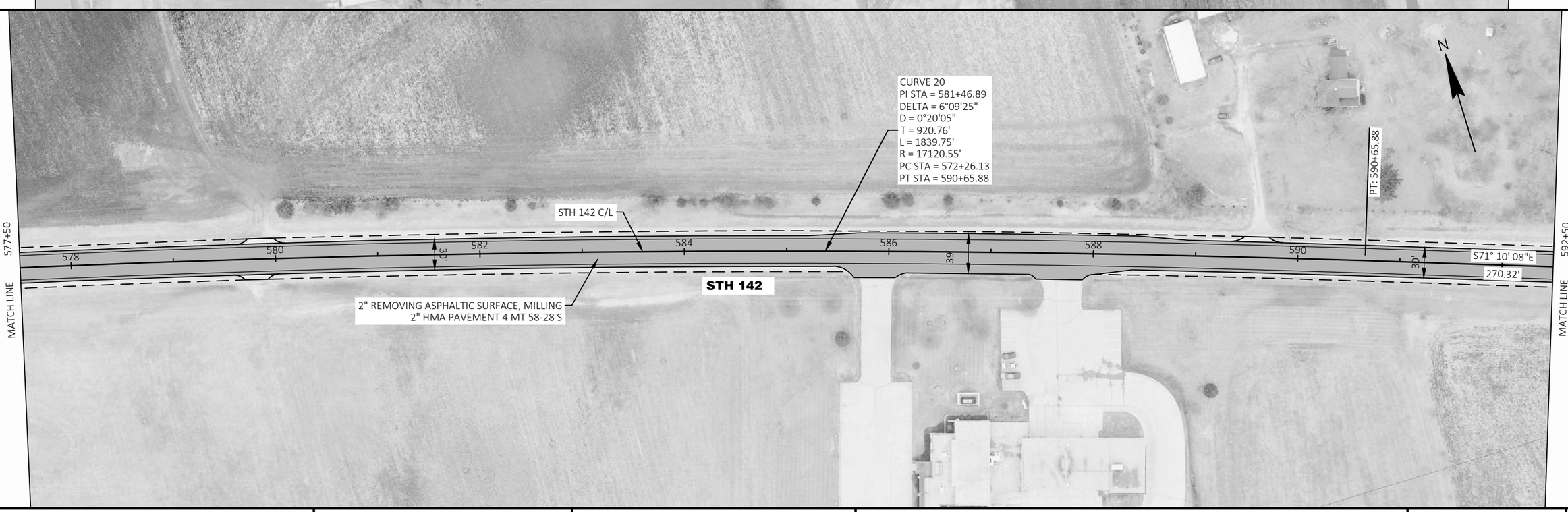

PROJECT NO: 3834-06-70	HWY: STH 142	COUNTY: KENOSHA	PLAN SHEETS	SHEET 112	E

FILE NAME : N:\PDS\C3D\38340600\SHEETSPLAN\050201-PN.DWG
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PLOT BY : SILVA, DIEGO
PLOT NAME :
PLOT SCALE : 1 IN:100 FT
WISDOT/CADDS SHEET 44

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PROJECT NO: 3834-06-70	HWY: STH 142	COUNTY: KENOSHA	PLAN SHEETS	SHEET 113	E

FILE NAME : N:\PDS\C3D\38340600\SHEETSPLAN\050201-PN.DWG
LAYOUT NAME - 18
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PLOT BY : SILVA, DIEGO
PLOT NAME :
PLOT SCALE : 1 IN:100 FT
WISDOT/CADDS SHEET 44

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PROJECT NO: 3834-06-70	HWY: STH 142	COUNTY: KENOSHA	PLAN SHEETS	SHEET 114	E

5

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PROJECT NO: 3834-06-70	HWY: STH 142	COUNTY: KENOSHA	PLAN SHEETS	SHEET 115	E

FILE NAME : N:\PDS\C3D\38340600\SHEETSPLAN\050201-PN.DWG
LAYOUT NAME - 20
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PLOT BY : SILVA, DIEGO
PLOT NAME :
PLOT SCALE : 1 IN:100 FT
WISDOT/CADDS SHEET 44

PROJECT NO: 3834-06-70	HWY: STH 142	COUNTY: KENOSHA	PLAN SHEETS	SHEET 116	E

FILE NAME : N:\PDS\C3D\38340600\SHEETSPLAN\050201-PN.DWG
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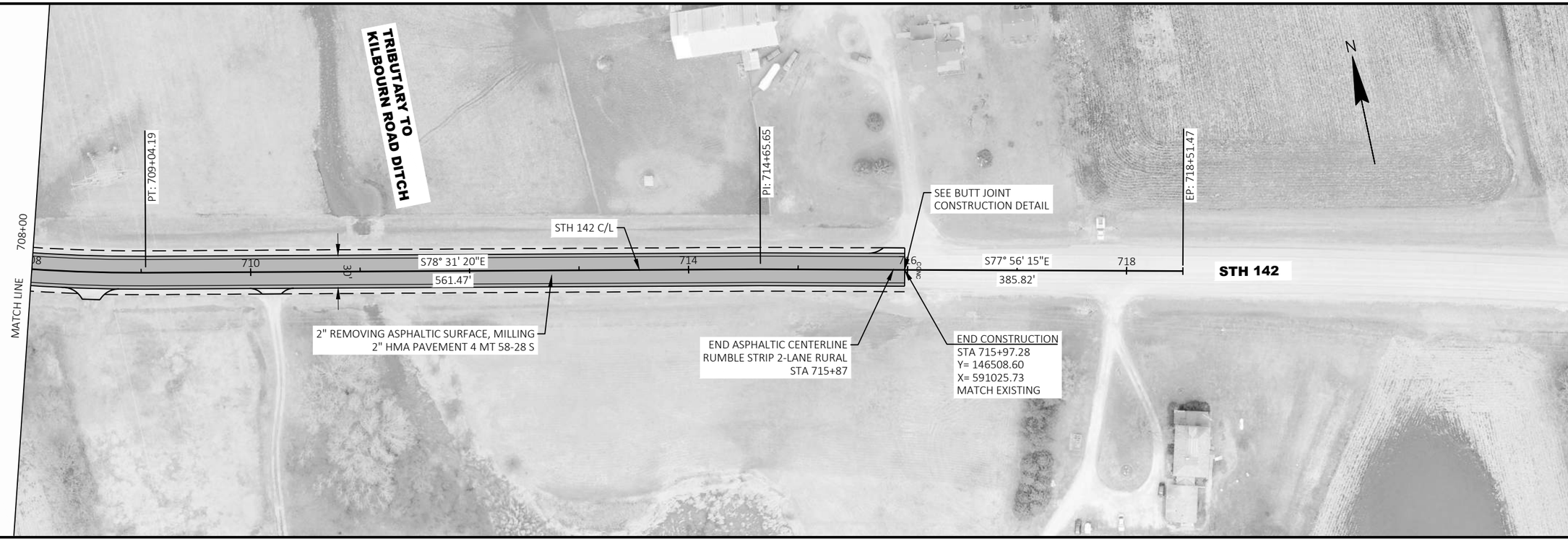
PLOT BY : SILVA, DIEGO
PLOT NAME :
PLOT SCALE : 1 IN:100 FT
WISDOT/CADDS SHEET 44



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Standard Detail Drawing List

08D04-05	CONCRETE SURFACE DRAINS & ASPHALTIC FLUMES
08D22-01	DRIVEWAYS WITHOUT CURB & GUTTER RESURFACING PROJECTS RURAL
08E10-02	INLET PROTECTION TYPE A, B, C AND D
08F01-11	APRON ENDWALLS FOR CULVERT PIPE
13A10-02A	2-LANE RURAL SHOULDER RUMBLE STRIP, MILLING
13A10-02B	2-LANE RURAL SHOULDER RUMBLE STRIP, MILLING
13A10-02C	2-LANE RURAL SHOULDER RUMBLE STRIP, MILLING
13A10-02D	2-LANE RURAL SHOULDER RUMBLE STRIP, MILLING
13A11-03A	2-LANE RURAL CENTER LINE RUMBLE STRIP, MILLING
13A11-03B	2-LANE RURAL CENTER LINE RUMBLE STRIP, MILLING
13C14-07A	BASE PATCHING CONCRETE
13C14-07B	BASE PATCHING CONCRETE
13C14-07C	BASE PATCHING CONCRETE
15C02-08A	BARRICADES AND SIGNS FOR MAINLINE CLOSURES
15C02-08B	BARRICADES AND SIGNS FOR VARIOUS CLOSURES
15C02-08C	DETOUR SIGNING FOR MAINLINE CLOSURES
15C06-09	SIGNING & MARKING FOR TWO LANE BRIDGES
15C07-15B	PAVEMENT MARKING WORDS
15C07-15C	PAVEMENT MARKING ARROWS
15C08-20A	LONGITUDINAL MARKING (MAINLINE)
15C11-09B	CHANNELIZING DEVICES DRUMS, CONES, BARRICADES AND VERTICAL PANELS
15C12-07	TRAFFIC CONTROL FOR LANE CLOSURE WITH FLAGGING OPERATION
15C18-05A	MEDIAN ISLAND MARKING PAVEMENT MARKINGS
15C18-05B	MEDIAN ISLAND MARKING MEDIAN ISLAND NOSE
15C18-05C	MEDIAN PAVEMENT MARKINGS DOUBLE ARROW WARNING SIGN PLACEMENT
15C33-04	STOP LINE AND CROSSWALK PAVEMENT MARKING
15C35-04A	PAVEMENT MARKING (INTERSECTIONS)
15D38-02A	TEMPORARY TRAFFIC CONTROL SIGN MOUNTING
15D38-02B	ATTACHMENT OF SIGNS TO POSTS

6

GENERAL NOTES

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

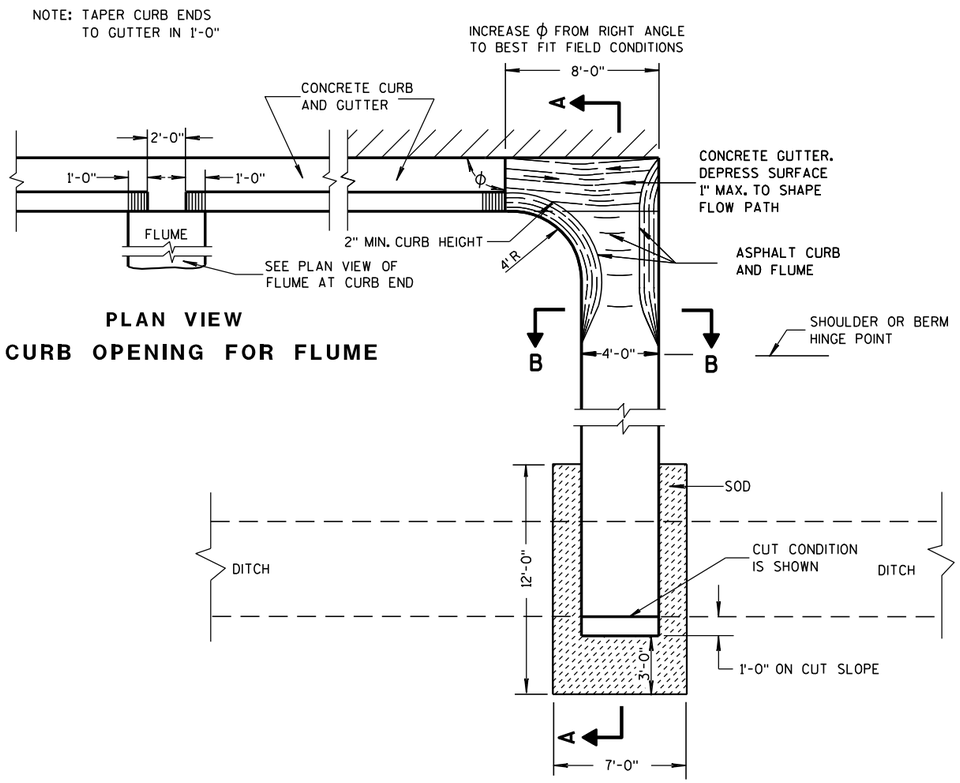
WELDED STEEL WIRE FABRIC SHALL BE IN ACCORDANCE WITH AASHTO SPECIFICATION M55.

① JOINTS SHALL BE 1/8 TO 1/4 INCH WIDE BY 1 1/2 INCHES DEEP AND SPACED AT UNIFORM INTERVALS OF APPROXIMATELY 4 FEET.

② GEOTEXTILE FABRIC TYPE "R" SHALL UNDERLAY THE FULL LENGTH AND WIDTH OF THE CONCRETE SURFACE DRAIN AND RIPRAP.

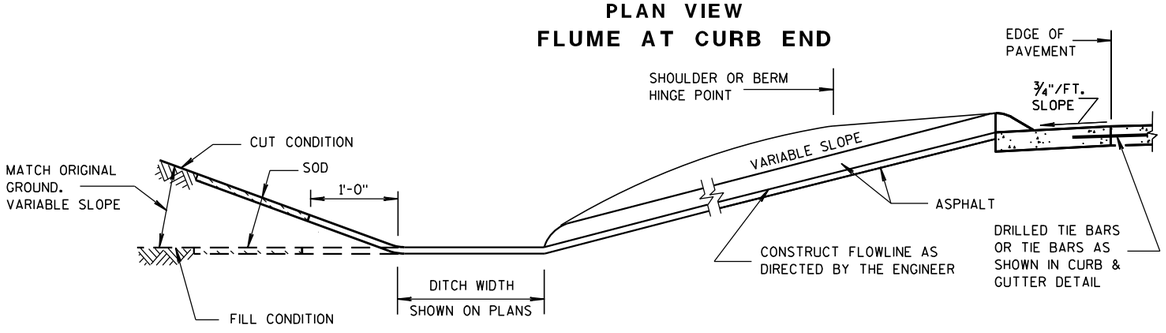
③ CONCRETE SURFACE DRAIN WITHOUT CURB AND GUTTER MAY BE USED ON BACKSLOPES WHEN SPECIFIED

ASPHALTIC FLUME

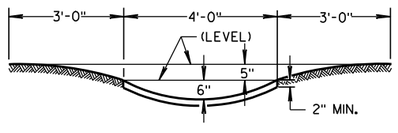


PLAN VIEW
CURB OPENING FOR FLUME

PLAN VIEW
FLUME AT CURB END

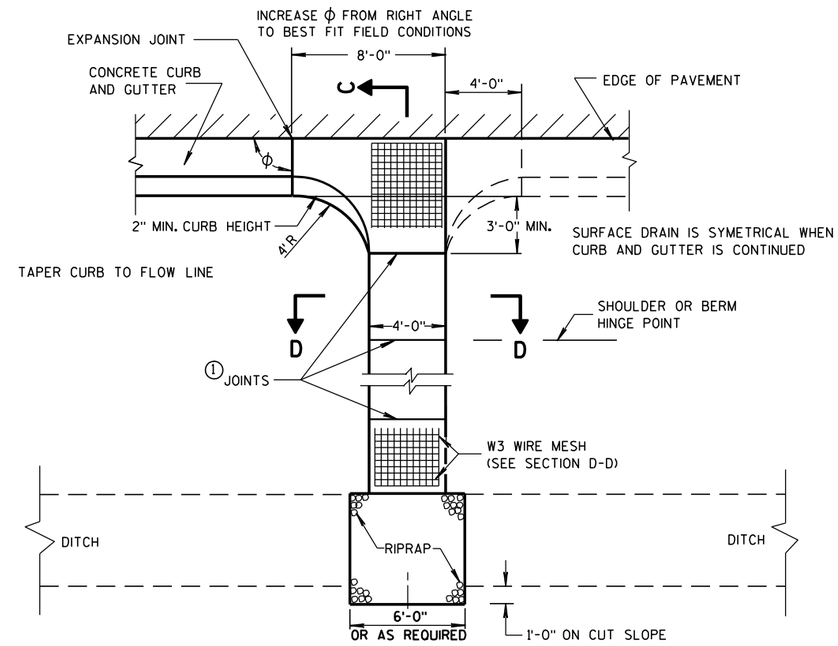


SECTION A-A

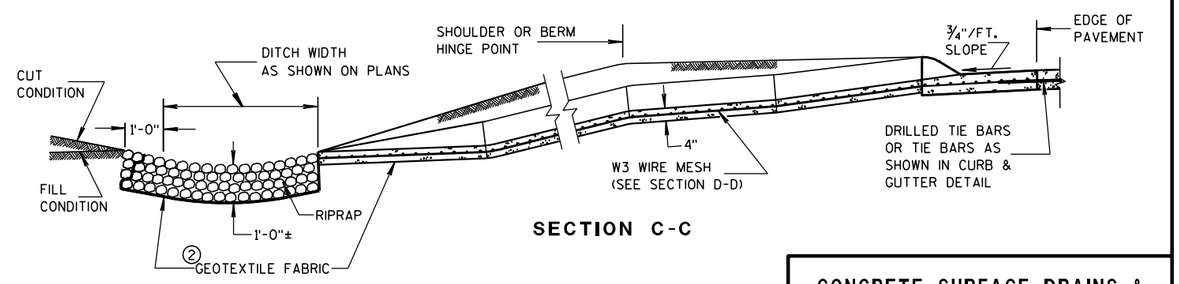


SECTION B-B

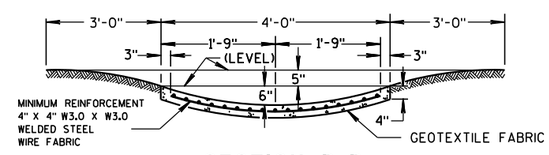
③ CONCRETE SURFACE DRAIN



PLAN VIEW



SECTION C-C



SECTION D-D

CONCRETE SURFACE DRAINS & ASPHALTIC FLUMES

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
9-4-08 /S/ Jerry H. Zogg
DATE ROADWAY STANDARDS ENGINEER MENT
FHWA

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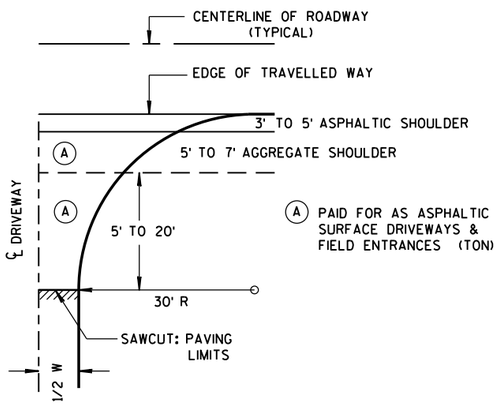
6

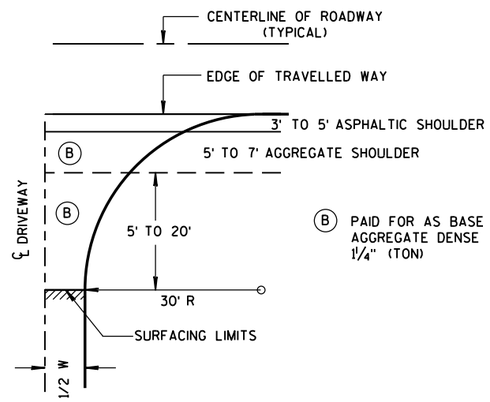
S.D.D. 8 D 4-5

S.D.D. 8 D 4-5

W MIN. = 16'
W MAX. = 24'



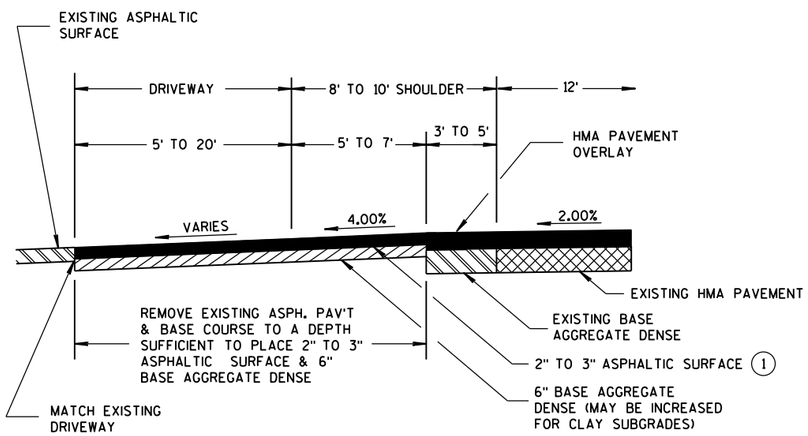
PLAN VIEW
HALF SECTION



PLAN VIEW
HALF SECTION

GENERAL NOTES

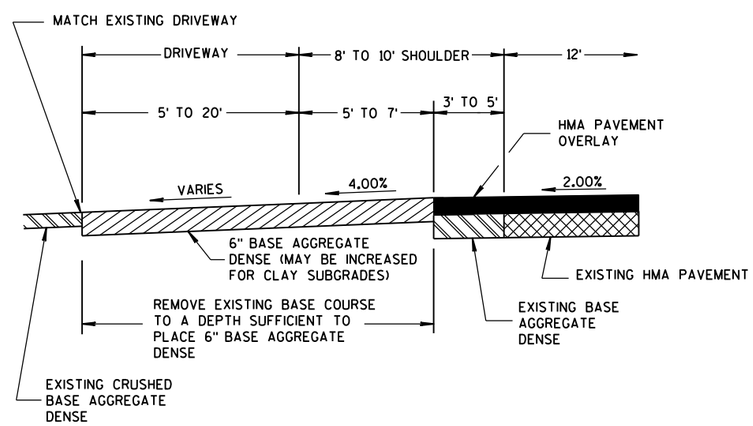
1. DESIGN WILL DETERMINE FINAL DRIVEWAY ASPHALTIC THICKNESS BASED ON TYPE OF USAGE AND LOADINGS.



PROFILE VIEW

RURAL ENTRANCE WITH ASPHALTIC SURFACE

RESURFACING PROJECTS



PROFILE VIEW

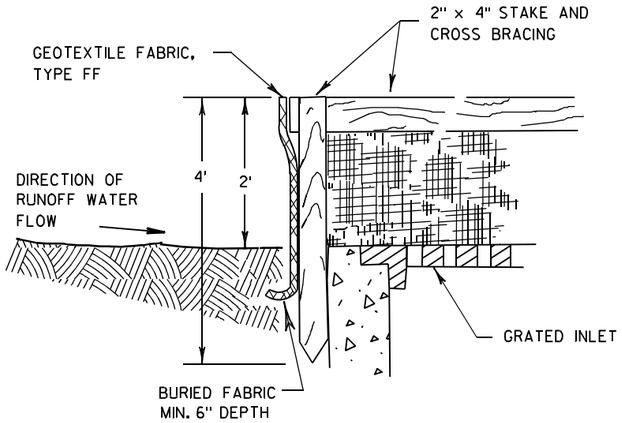
RURAL ENTRANCE WITH AGGREGATE SURFACE

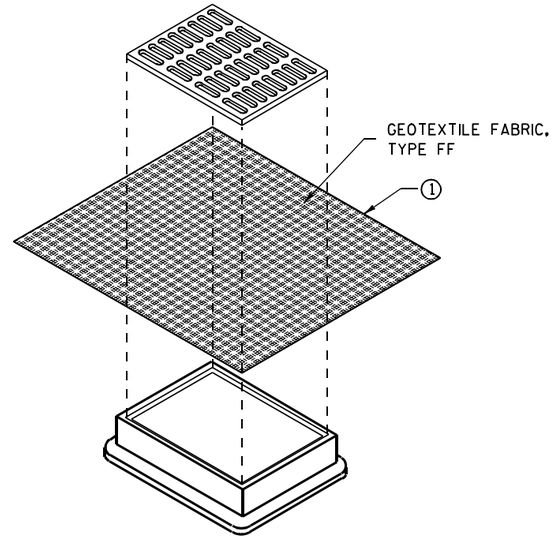
6" BASE AGGREGATE DENSE
RESURFACING PROJECTS

DRIVEWAYS WITHOUT CURB & GUTTER RESURFACING PROJECTS RURAL
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION
APPROVED December, 2016 /S/ Rodney Taylor DATE ROADWAY STANDARDS UNIT SUPERV ENT FHWA

6

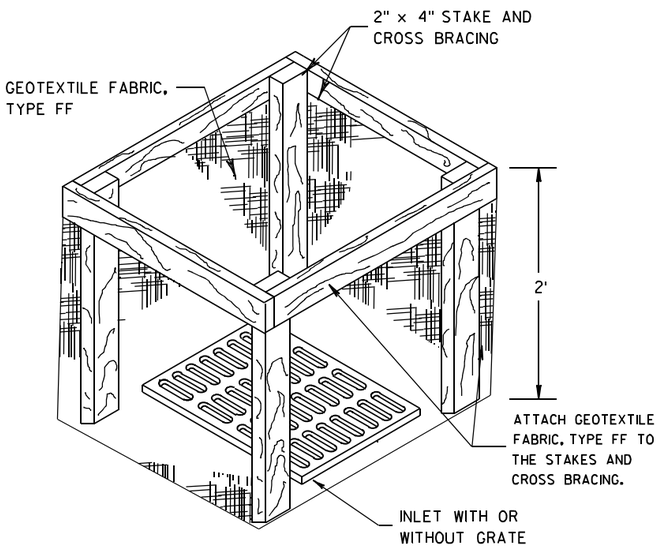
S.D.D. 8 D 22-1



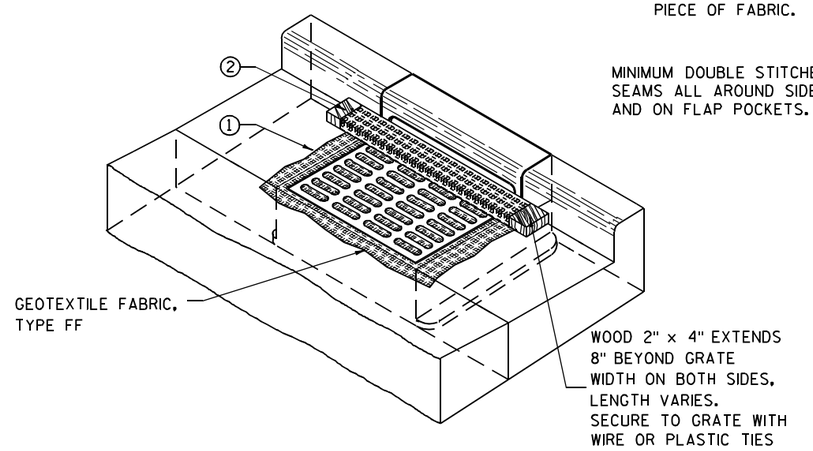


INLET PROTECTION, TYPE B
(WITHOUT CURB BOX)

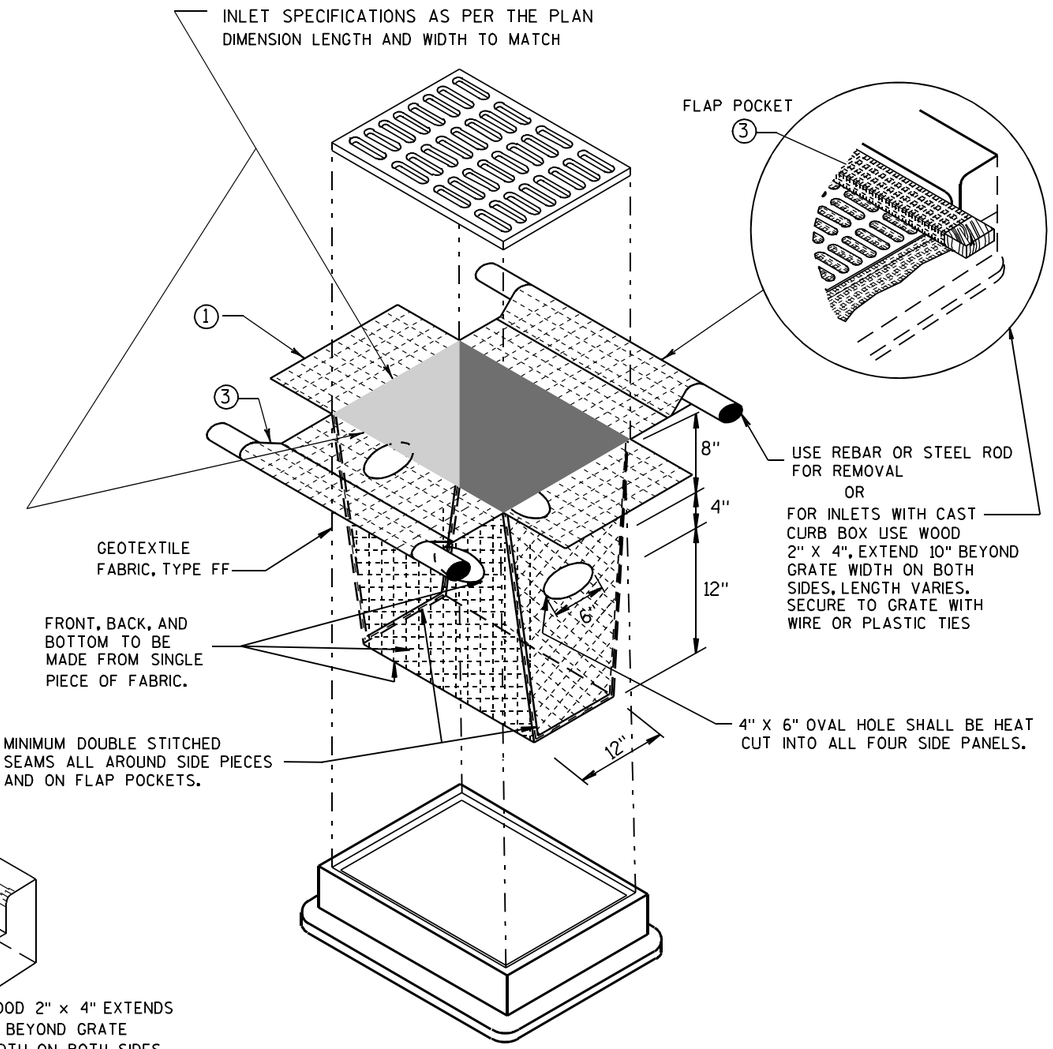
(CAN BE INSTALLED IN ANY INLET WITHOUT A CURB BOX)



INLET PROTECTION, TYPE A



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 Cannon — CHIEF ROADWAY DEVELOPMENT ENGINEER
FHWA

6

S.D.D. 8 E 10-2

METAL APRON ENDWALLS

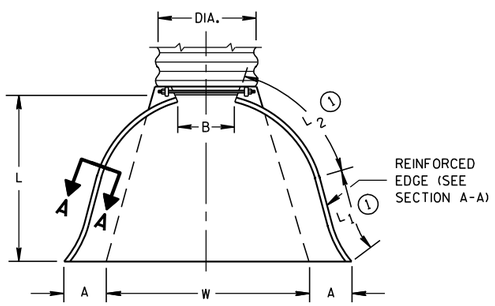
PIPE DIA. (IN.)	MIN. THICK. (Inches) STEEL	MIN. THICK. (Inches) ALUM.	DIMENSIONS (Inches) A (±1")	B (MAX.)	H (±1")	L (±1 1/2")	L1 ①	L2 ①	W (±2")	APPROX. SLOPE	BODY
12	.064	.060	6	6	6	21	12	17 1/2	24	2 1/2 to 1	1 Pc.
15	.064	.060	7	8	6	26	14	21 3/4	30	2 1/2 to 1	1 Pc.
18	.064	.060	8	10	6	31	15	28 1/4	36	2 1/2 to 1	1 Pc.
21	.064	.060	9	12	6	36	18	29 5/8	42	2 1/2 to 1	1 Pc.
24	.064	.075	10	13	6	41	18	37 1/4	48	2 1/2 to 1	1 Pc.
30	.079	.075	12	16	8	51	18	52 1/4	60	2 1/2 to 1	1 Pc.
36	.079	.105	14	19	9	60	24	59 3/4	72	2 1/2 to 1	2 Pc.
42	.109	.105	16	22	11	69	24	75 5/8	84	2 1/2 to 1	2 Pc.
48	.109	.105	18	27	12	78	24	81	90	2 1/4 to 1	3 Pc.
54	.109	.105	18	30	12	84	30	85 1/2	102	2 1/4 to 1	3 Pc.
60	.109×	.105×	18	33	12	87	—	—	114	2 to 1	3 Pc.
66	.109×	.105×	18	36	12	87	—	—	120	2 to 1	3 Pc.
72	.109×	.105×	18	39	12	87	—	—	126	2 to 1	3 Pc.
78	.109×	.105×	18	42	12	87	—	—	132	1 1/2 to 1	3 Pc.
84	.109×	.105×	18	45	12	87	—	—	138	1 1/2 to 1	3 Pc.
90	.109×	.105×	18	37	12	87	—	—	144	1 1/2 to 1	3 Pc.
96	.109×	.105×	18	35	12	87	—	—	150	1 1/2 to 1	3 Pc.

× EXCEPT CENTER PANEL
SEE GENERAL NOTES

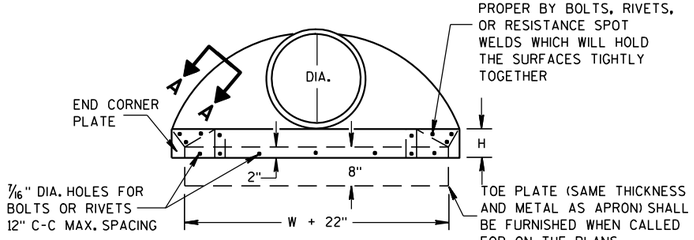
REINFORCED CONCRETE APRON ENDWALLS

PIPE DIA. (IN.)	DIMENSIONS (Inches) T	A	B	C	D	E	G	APPROX. SLOPE
12	2	4	24	48 7/8	72 7/8	24	2	3 to 1
15	2 1/4	6	27	46	73	30	2 1/4	3 to 1
18	2 1/2	9	27	46	73	36	2 1/2	3 to 1
21	2 3/4	9	36	37 1/2	73 1/2	42	2 3/4	3 to 1
24	3	9 1/2	43 1/2	30	73 1/2	48	3	3 to 1
27	3 1/4	10 1/2	49 1/2	24	73 1/2	54	3 1/4	3 to 1
30	3 1/2	12	54	19 3/4	73 1/2	60	3 1/2	3 to 1
36	4	15	63	34 3/4	97 3/4	72	4	3 to 1
42	4 1/2	21	63	35	98	78	4 1/2	3 to 1
48	5	24	72	26	98	84	5	3 to 1
54	5 1/2	27	65	*33 1/4-**35	*98 1/4-**100	90	5 1/2	2 2/5 to 1
60	6	*30-**35	60	39	99	96	5	2 to 1
66	6 1/2	*24-**30	*72-**78	*21-**27	99	102	5 1/2	2 to 1
72	7	*24-**36	78	21	99	108	6	2 to 1
78	7 1/2	*24-**36	78	21	99	114	6 1/2	2 to 1
84	8	36	90 1/2	21	111 1/2	120	6 1/2	1 1/2 to 1
90	8 1/2	41	87 1/2	24	111 1/2	132	6 1/2	1 1/2 to 1

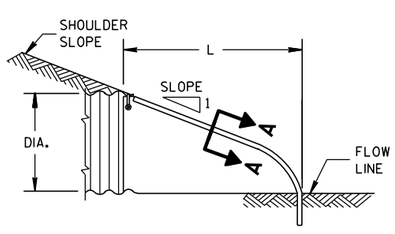
*MINIMUM
**MAXIMUM



PLAN VIEW

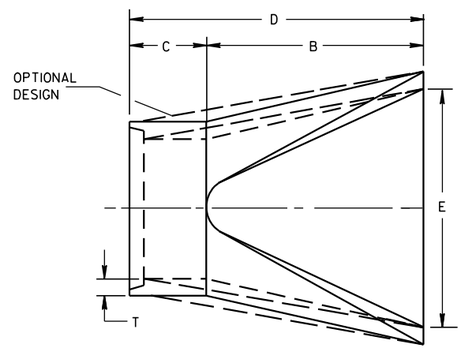


END VIEW

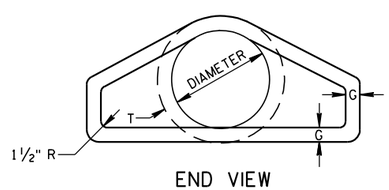


SIDE ELEVATION

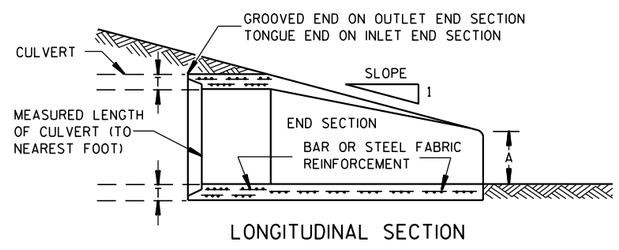
METAL ENDWALLS



PLAN

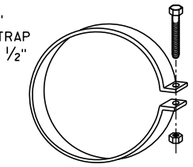


END VIEW



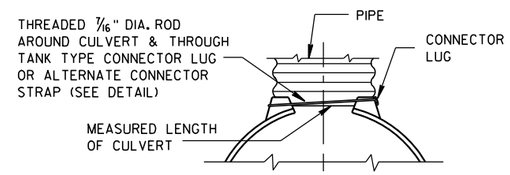
LONGITUDINAL SECTION

CONCRETE ENDWALLS

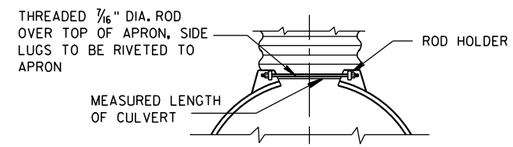


ALTERNATE FOR TYPE 1 CONNECTION

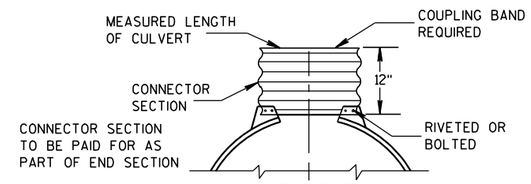
END SECTION CONNECTOR STRAP



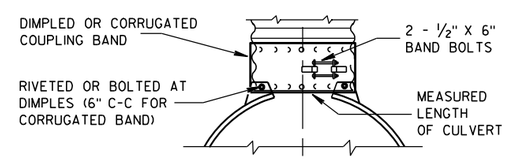
TYPE 1
FOR 12" THRU 24" CORR. PIPE



TYPE 2
FOR 30" THRU 96" CORR. PIPE



TYPE 3
FOR 42" THRU 96" CORR. PIPE



TYPE 5
ALTERNATE FOR:
ALL SIZES CORRUGATED CIRCULAR PIPE

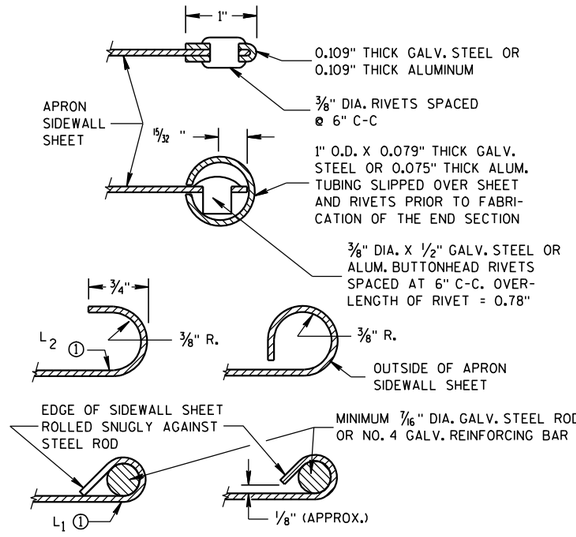
NOTE: DIMPLED BAND FITS OVER OUTSIDE OF ENDWALL, AND CORRUGATED BAND FITS INSIDE ENDWALL. DIMPLED BAND MAY BE USED WITH HELICALLY CORRUGATED PIPE.

FOR CIRCUMFERENTIALLY CORRUGATED PIPE USE ENDWALL CONNECTION DETAILS 1, 2, 3 OR 5 AS APPLICABLE.

FOR HELICALLY CORRUGATED PIPE USE ENDWALL CONNECTION DETAILS 1, 2 OR 5.

FOR HELICALLY CORRUGATED PIPES WITH TWO CIRCUMFERENTIAL CORRUGATIONS AT EACH END USE ENDWALL CONNECTION DETAILS 1, 2 OR 3.

CONNECTION DETAILS



SECTION A-A

GENERAL NOTES

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

CONCRETE CULVERT ENDWALLS MAY NOT BE USED WITH GALVANIZED STEEL OR ALUMINUM CULVERT PIPE OR VISE VERSA. GALVANIZED STEEL OR ALUMINUM ENDWALLS SHALL NORMALLY BE INSTALLED ON CULVERT PIPE OF THE SAME METAL.

ALL THREE PIECE STEEL APRON ENDWALLS FOR 60" DIAMETER PIPE AND LARGER SHALL HAVE 0.109" SIDES AND 0.138" CENTER PANELS. ALL THREE PIECE ALUMINUM APRON ENDWALLS FOR 60" DIAMETER PIPE AND LARGER SHALL HAVE 0.105" SIDES AND 0.134" CENTER PANELS. THE WIDTH OF CENTER PANELS SHALL BE GREATER THAN 20 PERCENT OF THE PIPE PERIMETER.

LAP SEAMS SHALL BE TIGHTLY JOINED BY GALVANIZED RIVETS OR BOLTS FOR STEEL UNITS AND ALUMINUM RIVETS AND BOLTS FOR ALUMINUM UNITS. FOR THE 60" THROUGH 96" DIAMETER APRON ENDWALL SIZES, THE REINFORCED EDGES AND CENTER PANEL SEAMS SHALL BE FURTHER REINFORCED WITH GALVANIZED STEEL OR ALUMINUM STIFFENER ANGLES. THE ANGLES SHALL BE ATTACHED BY GALVANIZED NUTS AND BOLTS FOR STEEL UNITS AND ALUMINUM NUTS AND BOLTS FOR ALUMINUM UNITS.

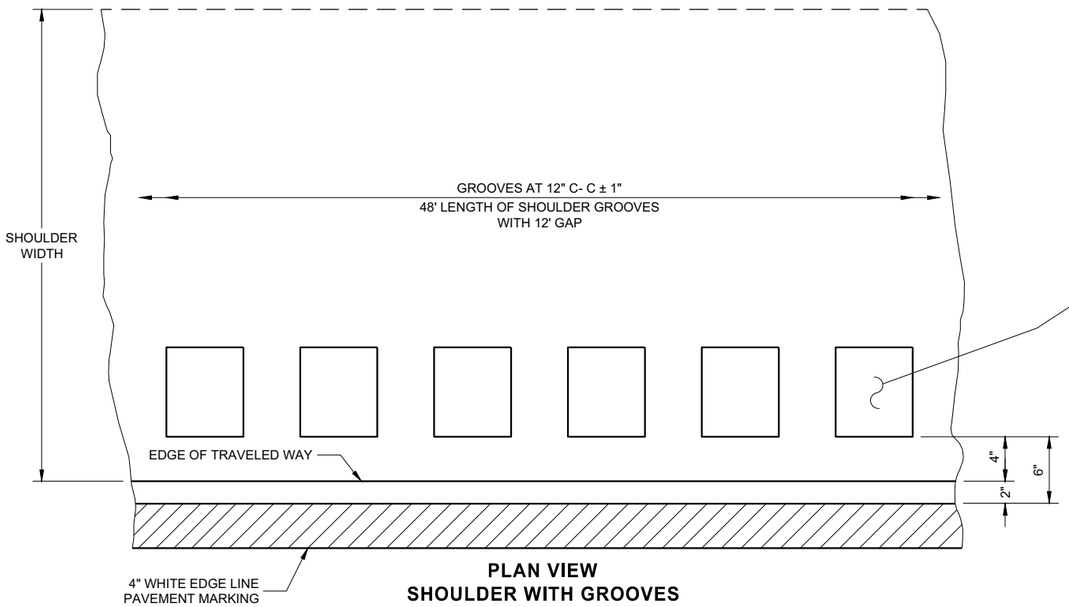
WHERE TWO OR MORE PIPES WITH APRON ENDWALLS ARE LAID ADJACENT TO EACH OTHER, THEY SHALL BE SEPARATED BY A DISTANCE SUFFICIENT TO PROVIDE A MINIMUM CLEARANCE OF 6 INCHES BETWEEN APRON ENDWALLS.

① FOR PIPE SIZES UP TO 60" DIAMETER, A 180° ROLLED EDGE MAY BE USED INSTEAD OF STEEL ROD REINFORCEMENT. SEE SECTION A-A.

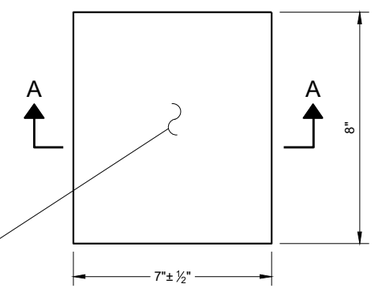
APRON ENDWALLS FOR CULVERT PIPE

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
11/30/94 — DATE
/S/ Rory L. Rhinesmith — CHIEF ROADWAY DEVELOPMENT ENGINEER
FHWA



PLAN VIEW
SHOULDER WITH GROOVES



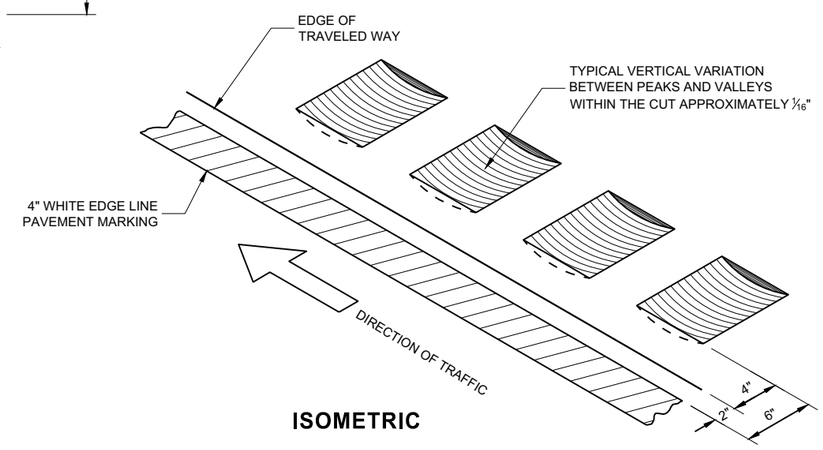
PLAN VIEW
(SINGLE GROOVE)

GENERAL NOTES

DETAILS OF CONSTRUCTION NO SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND APPLICABLE SPECIAL PROVISIONS.

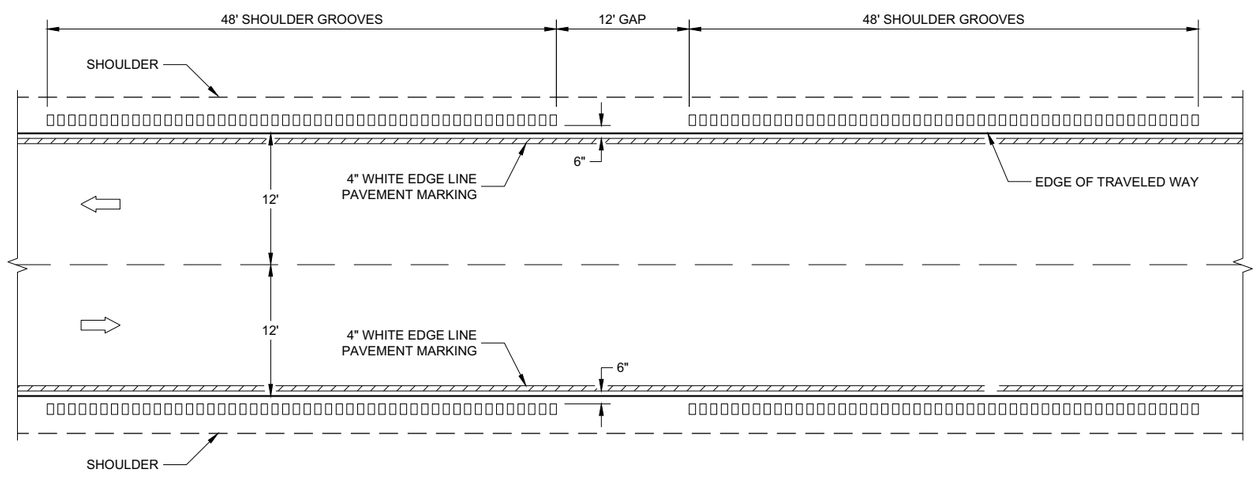
DO NOT MILL SHOULDER GROOVES THROUGH ANY INTERSECTION, MARKED CROSSWALK, NON-MOTORIZED PATH CROSSING, OR SNOWMOBILE CROSSING.

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

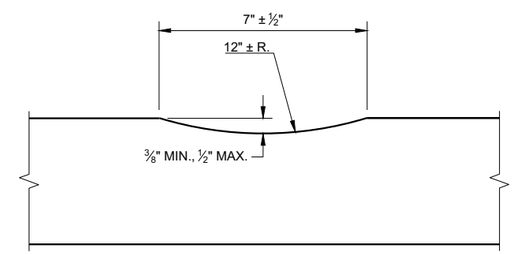


ISOMETRIC

PLACEMENT DETAIL FOR TYPE 1 MILLED RUMBLE STRIP



TYPE 1
2 - LANE SHOULDER RUMBLE STRIP



SECTION A - A

2-LANE RURAL SHOULDER RUMBLE STRIP, MILLING

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

6

SDD 13A10 - 02a

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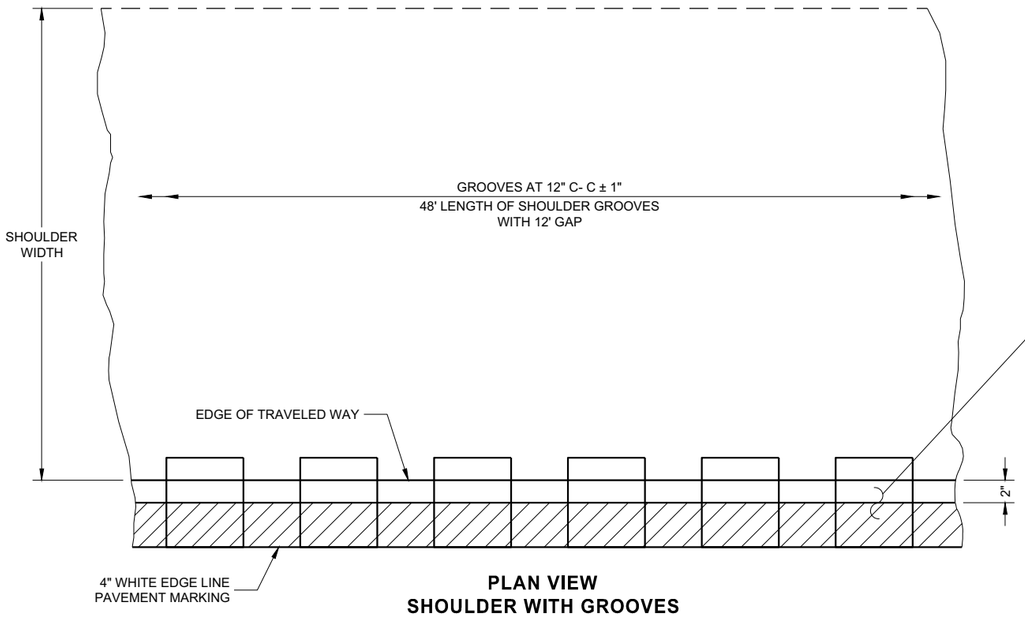
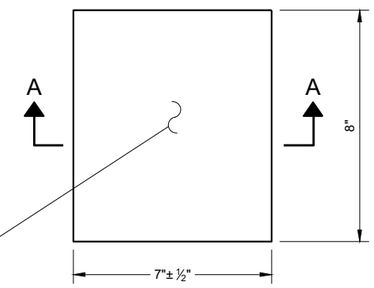
SDD 13A10 - 02a



PLAN VIEW
SHOULDER WITH GROOVES



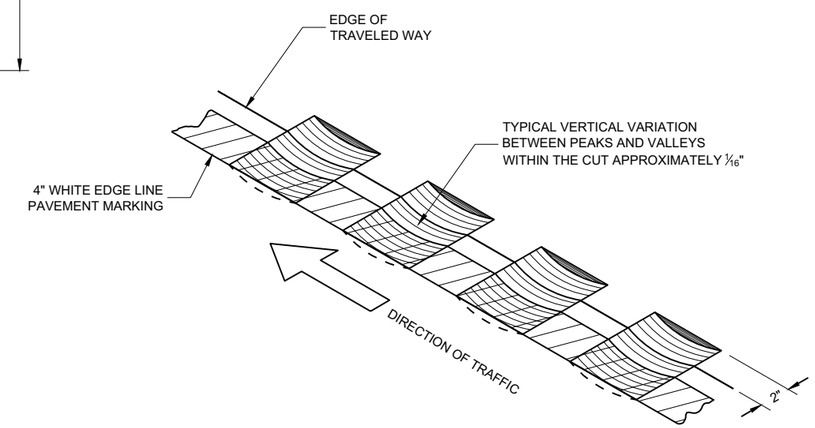
PLAN VIEW
(SINGLE GROOVE)

GENERAL NOTES

DETAILS OF CONSTRUCTION NO SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND APPLICABLE SPECIAL PROVISIONS.

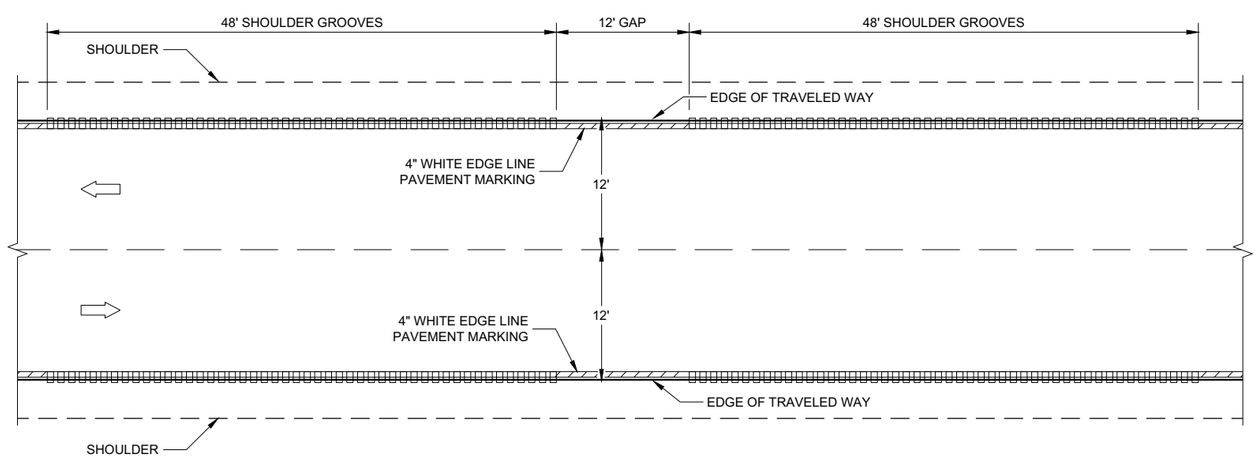
DO NOT MILL SHOULDER GROOVES THROUGH ANY INTERSECTION, MARKED CROSSWALK, NON-MOTORIZED PATH CROSSING, OR SNOWMOBILE CROSSING.

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

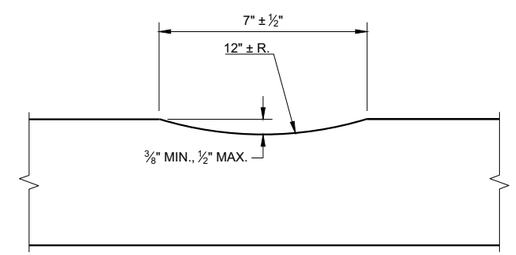


ISOMETRIC

PLACEMENT DETAIL FOR TYPE 2 MILLED RUMBLE STRIP



TYPE 2
2 - LANE SHOULDER RUMBLE STRIP



SECTION A - A

2-LANE RURAL SHOULDER RUMBLE STRIP, MILLING

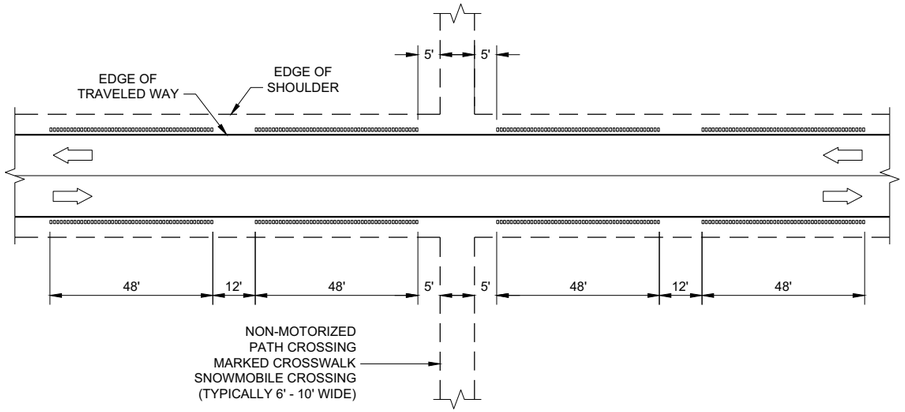
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

6

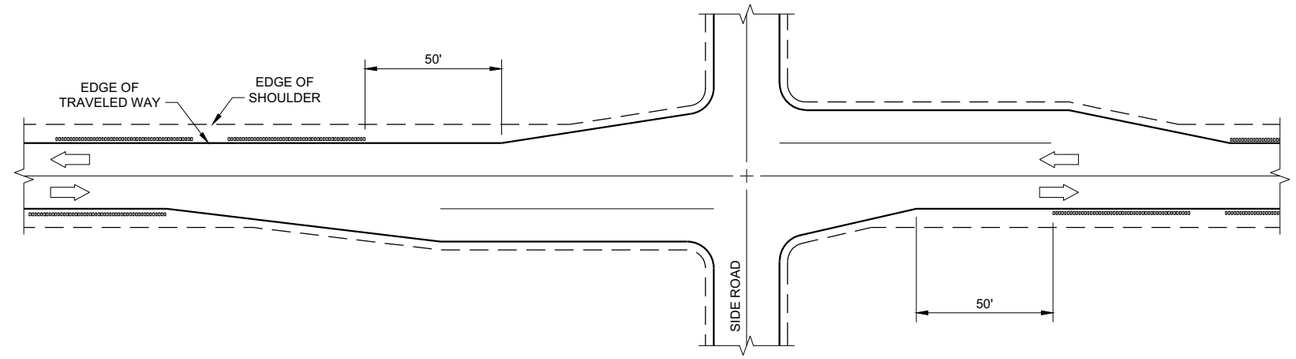
6

SDD 13A10 - 02b

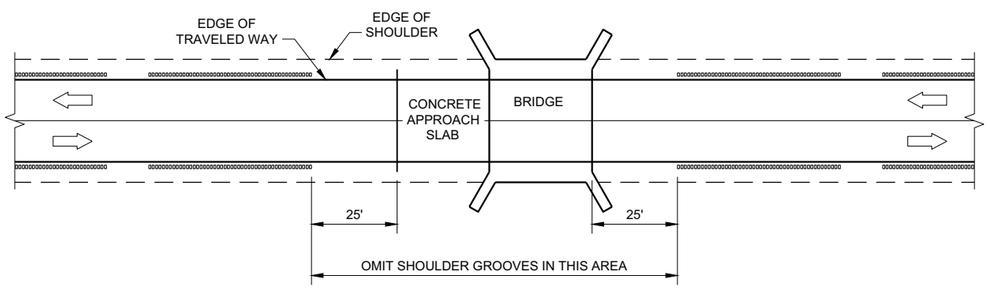
SDD 13A10 - 02b



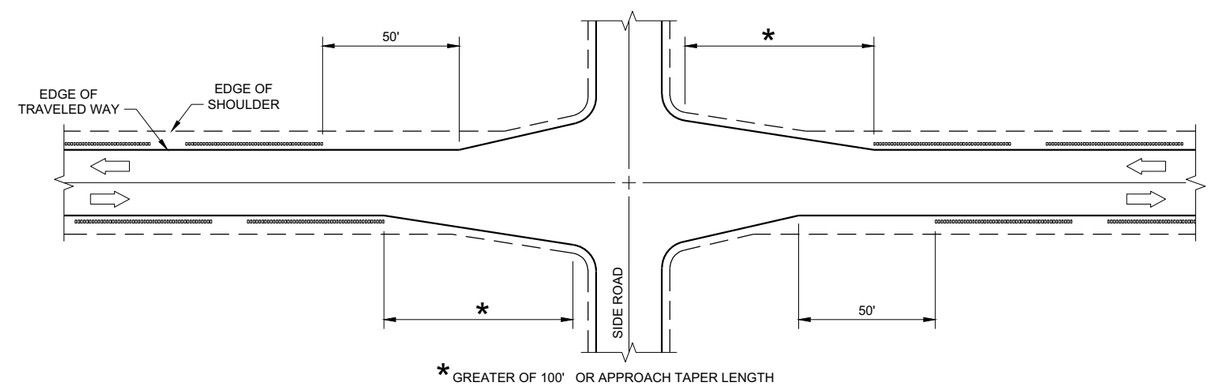
SHOULDER GROOVES AT MISCELLANEOUS CROSSINGS



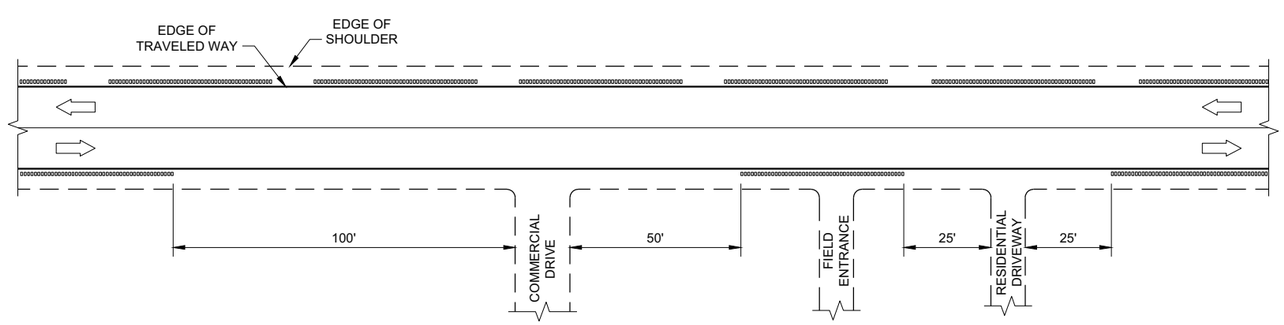
SHOULDER GROOVES AT RIGHT TURN LANE



SHOULDER GROOVES AT BRIDGES



SHOULDER GROOVES AT INTERSECTIONS WITH APPROACH TAPER



SHOULDER GROOVES AT DRIVEWAYS (1)

GENERAL NOTES

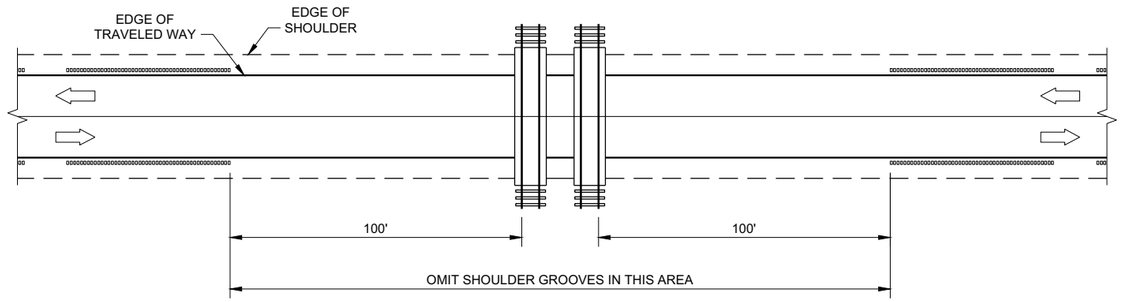
(1) SHOULDER GROOVES MAY BE OMITTED IN AREAS WITH HIGH CONCENTRATIONS OF DRIVEWAYS. WHEN DIRECTED BY THE ENGINEER.

2-LANE RURAL SHOULDER RUMBLE STRIP, MILLING

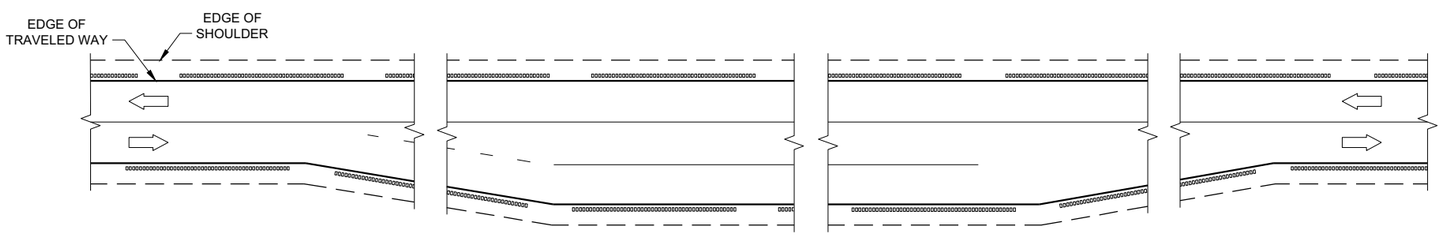
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTA

6

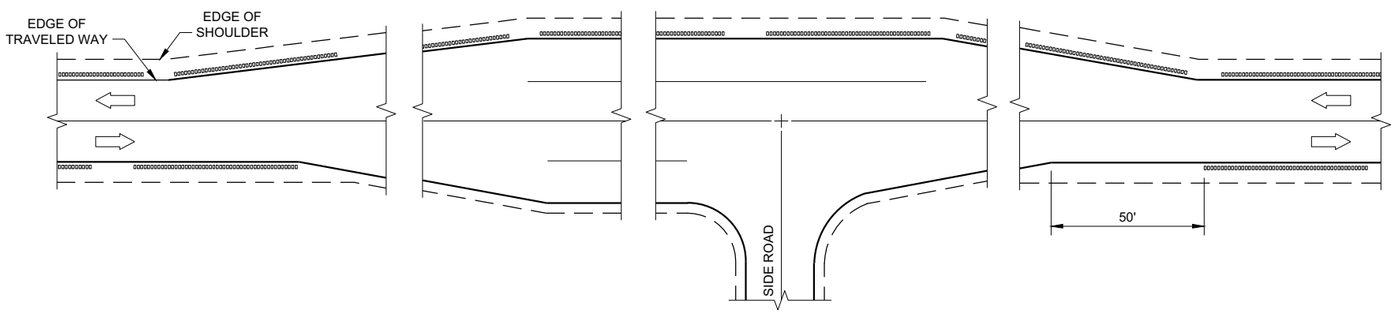
SDD 13A10 - 02c



SHOULDER GROOVES AT RAILROADS



SHOULDER GROOVES AT PASSING AND CLIMBING LANES



SHOULDER GROOVES AT BYPASS LANES

6

6

2-LANE RURAL SHOULDER RUMBLE STRIP, MILLING

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
7/2018 — DATE
/S/ Rodney Taylor — ROADWAY STANDARDS DEVE ENGINEER

FHWA

SDD 13A10 - 02d

SDD 13A10 - 02d

GENERAL NOTES

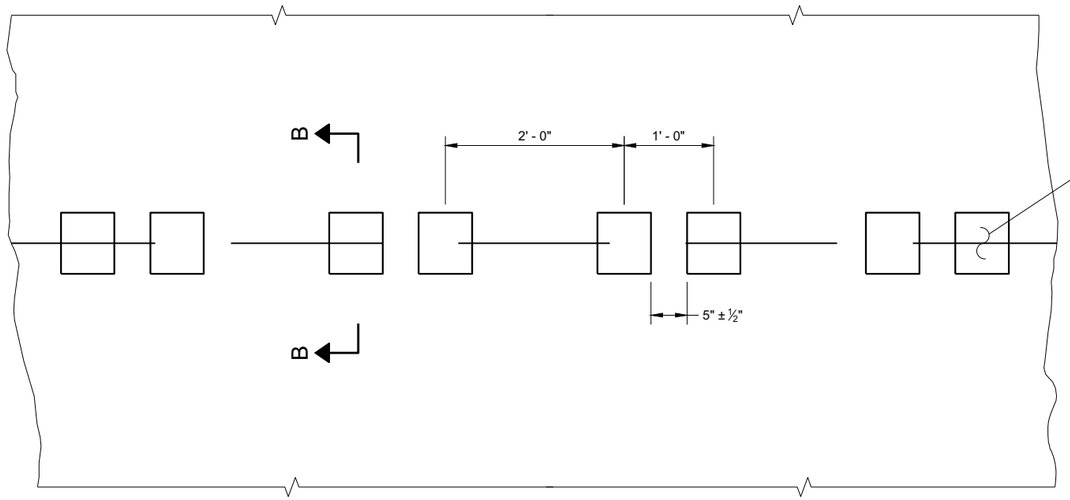
DETAILS OF CONSTRUCTION NO SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND APPLICABLE SPECIAL PROVISIONS.

DO NOT MILL CENTERLINE GROOVES THROUGH ANY INTERSECTION, MARKED CROSSWALK, NON-MOTORIZED PATH CROSSING, OR SNOWMOBILE CROSSING.

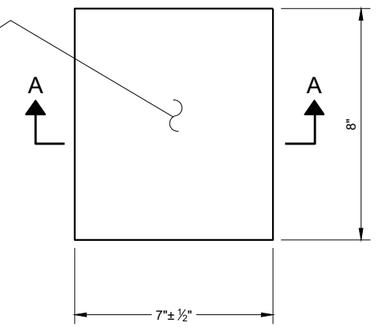
INSTALL PAVEMENT MARKING AFTER THE GROOVES ARE INSTALLED.

SEE SIGNING PLAN FOR SIGN REQUIREMENTS THAT MAY BE NEEDED.

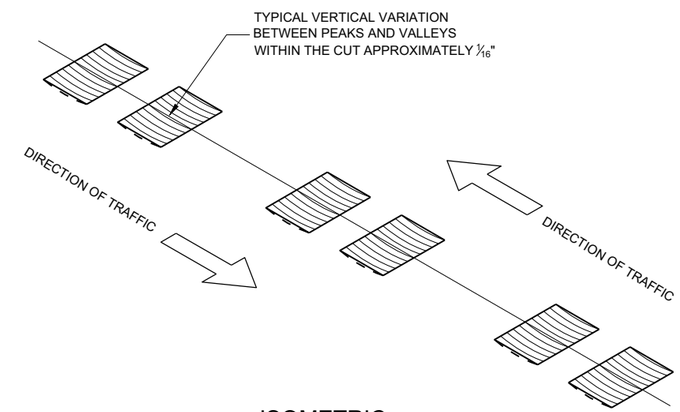
(1) CENTERLINE GROOVES MAY BE OMITTED IN AREAS WITH HIGH CONCENTRATIONS OF DRIVEWAYS. WHEN DIRECTED BY THE ENGINEER.



PLAN VIEW
SHOULDER WITH GROOVES

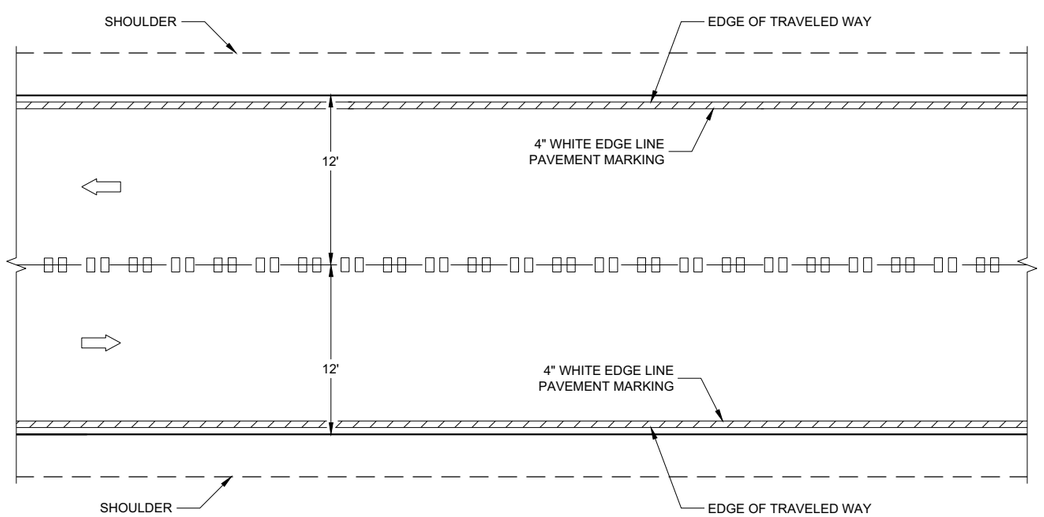


PLAN VIEW
(SINGLE GROOVE)

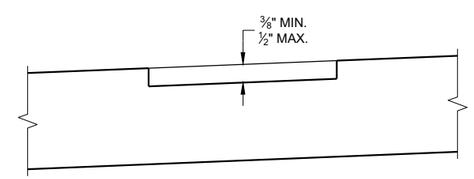


ISOMETRIC

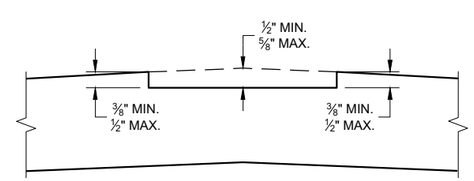
PLACEMENT DETAIL FOR TYPE 1 MILLED RUMBLE STRIP



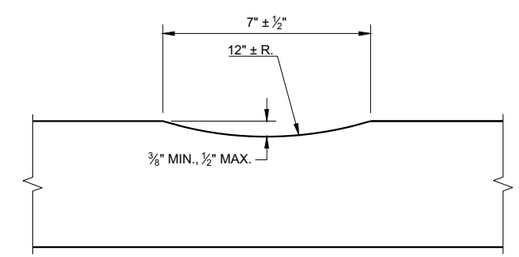
CENTERLINE GROOVES ON TWO-WAY ROADWAYS



SECTION B - B
SUPERELEVATED ROADWAY



SECTION B - B
CROWNED ROADWAY



SECTION A - A

2-LANE RURAL
CENTER LINE RUMBLE STRIP, MILLING

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTAT

6

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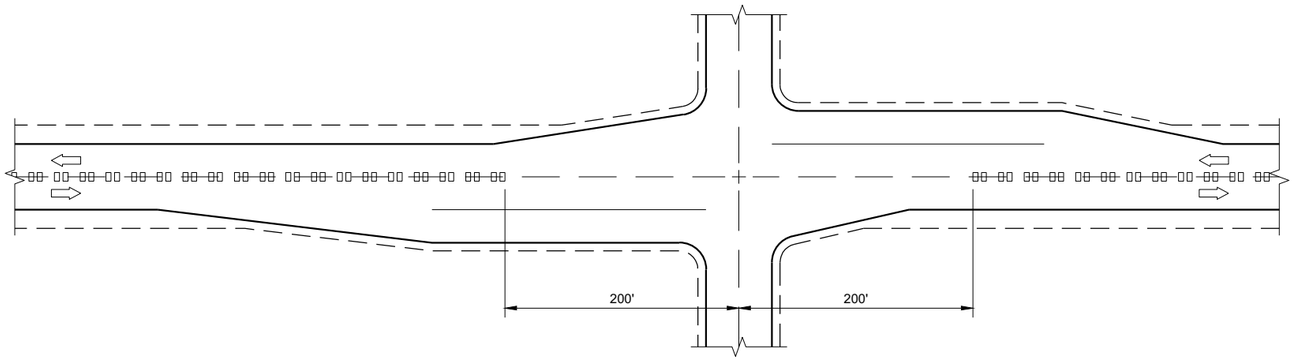
SDD 13A11 - 03a

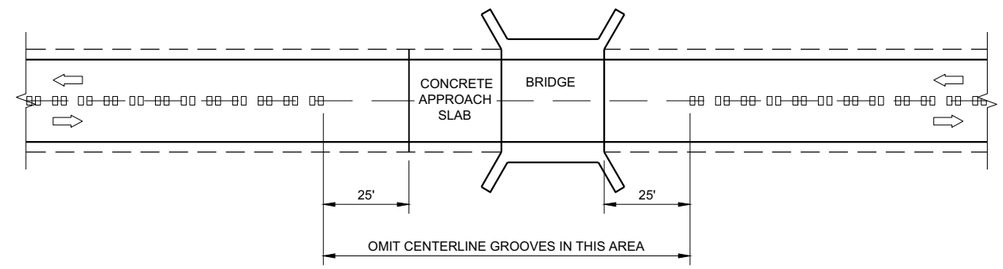
SDD 13A11 - 03a

GENERAL NOTES

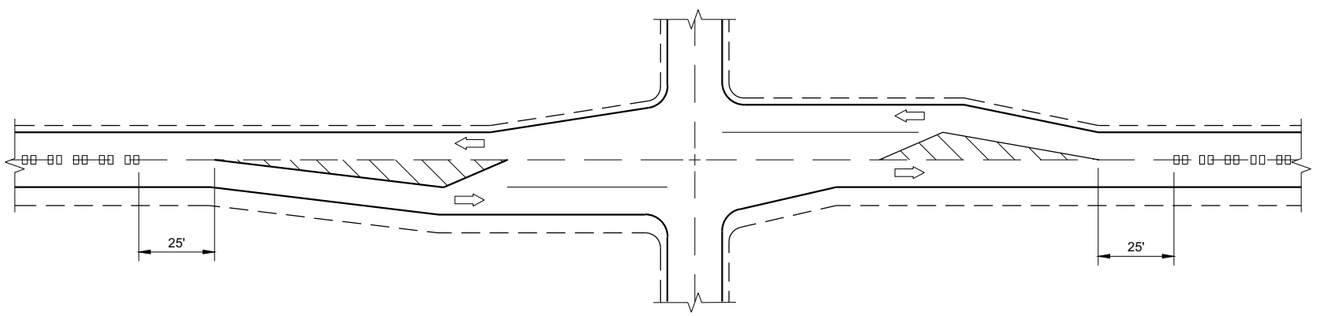
1. CENTERLINE GROOVES MAY BE OMITTED IN AREAS WITH HIGH CONCENTRATIONS OF DRIVEWAYS. WHEN DIRECTED BY THE ENGINEER.



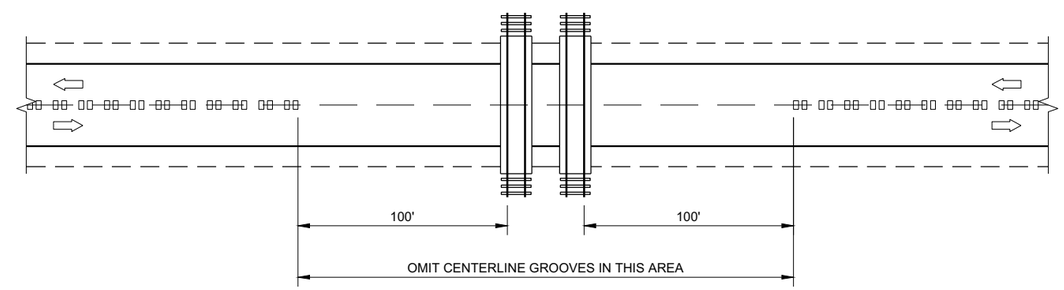
CENTERLINE GROOVES AT INTERSECTIONS



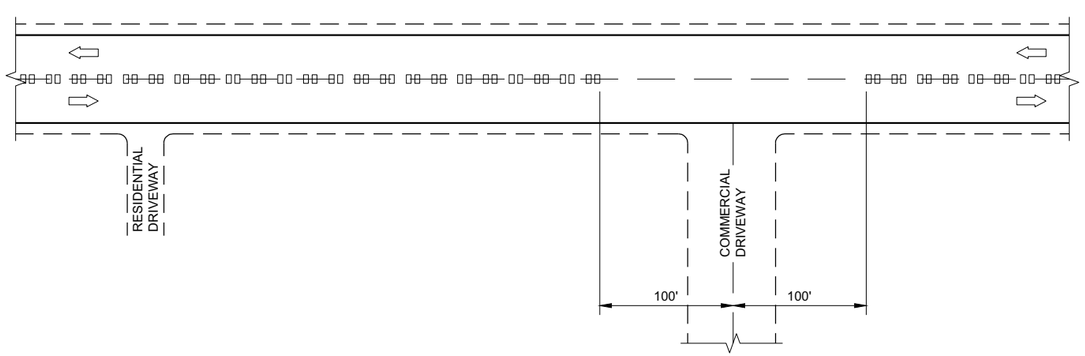
CENTERLINE GROOVES AT BRIDGES



CENTERLINE GROOVES AT INTERSECTIONS (WITH LEFT TURN LANES)



CENTERLINE GROOVES AT RAILROADS



CENTERLINE GROOVES AT DRIVEWAYS (1)

2-LANE RURAL CENTERLINE RUMBLE STRIP, MILLING	
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION	
APPROVED 7/2018 DATE	/S/ Rodney Taylor ROADWAY STANDARDS DEVE ENGINEER
FHWA	

6
SDD 13A11 - 03b

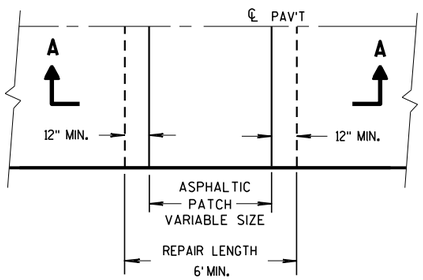
GENERAL NOTES

SAW CUT, DRILL, AND LIFT OUT EXISTING CONCRETE PAVEMENT WITHIN THE BOUNDARIES OF CONCRETE REPAIR AREAS. THE CONTRACTOR MAY MAKE ADDITIONAL SAW CUTS INSIDE THE REPAIR LIMITS TO REDUCE WEIGHT AND SIZE OF CONCRETE PIECES.

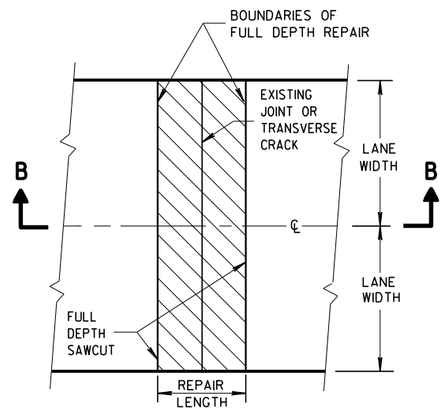
PROVIDE 6-FOOT MINIMUM DISTANCE FROM BOUNDARIES OF CONCRETE REPAIR AREAS TO ADJACENT TRANSVERSE JOINT OR CRACK.

THE LENGTH OF THE REPAIRS MAY VARY FROM THE DIMENSIONS SHOWN IF THE EXISTING CONCRETE PAVEMENT IS NONDOWELED AND THE PAVEMENT IS TO BE OVERLAID AFTER REPAIRING.

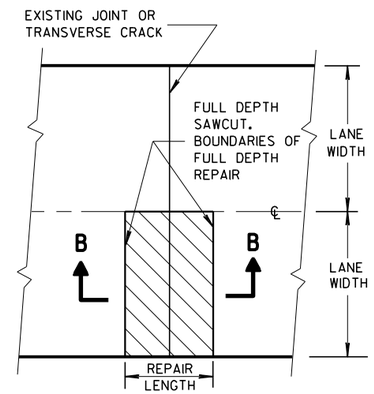
(1) DOWEL BARS MIGHT NOT EXIST.



PLAN VIEW

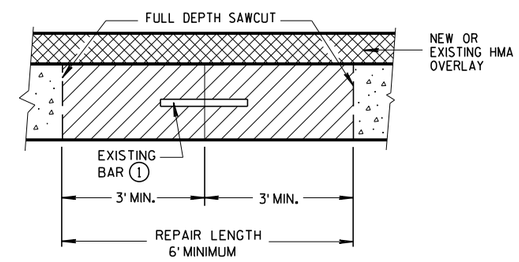


PLAN VIEW
(DOUBLE LANE REPAIR)



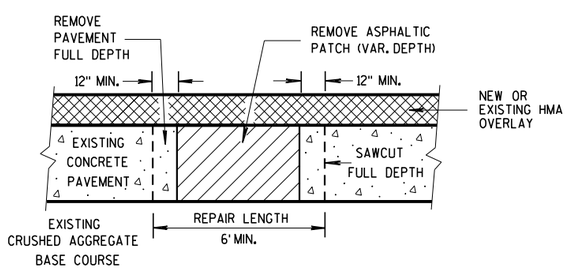
PLAN VIEW
(SINGLE LANE REPAIR)

FULL DEPTH CONCRETE PAVEMENT REMOVAL



SECTION B-B

CONCRETE REMOVAL



SECTION A-A

HMA PATCH REMOVAL

6

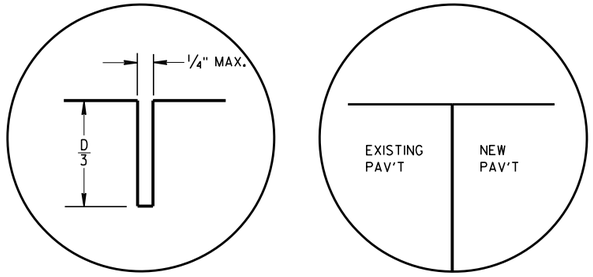
6

S.D.D. 13 C 14-7a

S.D.D. 13 C 14-7a

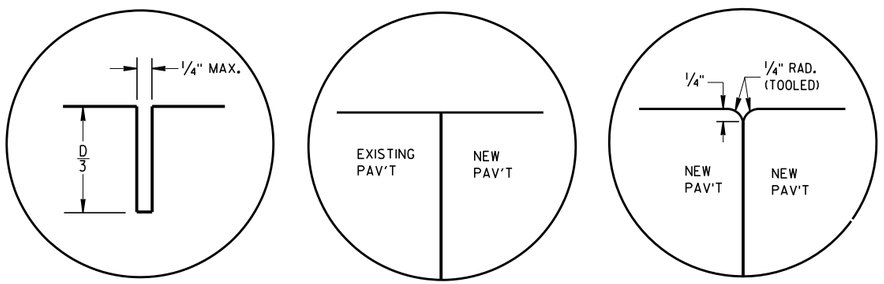
BASE PATCHING CONCRETE

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION



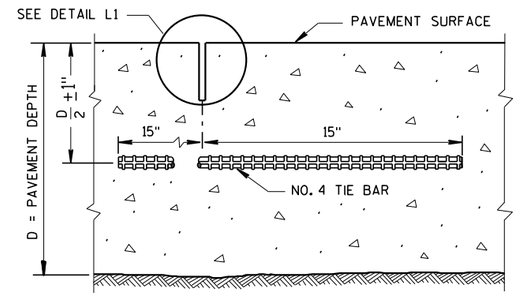
C1 C2

TRANSVERSE JOINTS



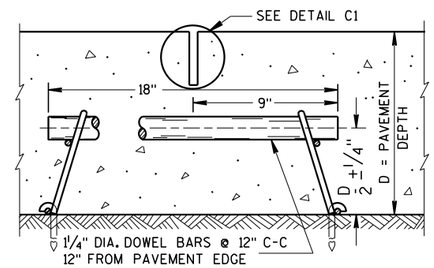
L1 L2 L3

LONGITUDINAL JOINTS



SECTION C-C

SAWED LONGITUDINAL JOINT



SECTION F-F

CONTRACTION JOINT

GENERAL NOTES

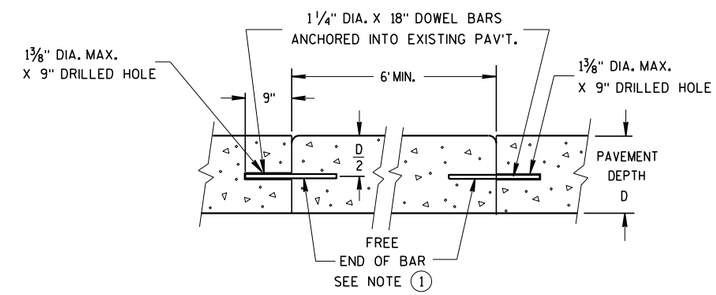
INSTALL DOWEL BARS PARALLEL TO THE PAVEMENT CENTERLINE AND PAVEMENT SURFACE.

CONCRETE BASE PATCHES OF EXISTING NONDOWELED CONCRETE PAVEMENTS DO NOT NEED TO BE DOWELED.

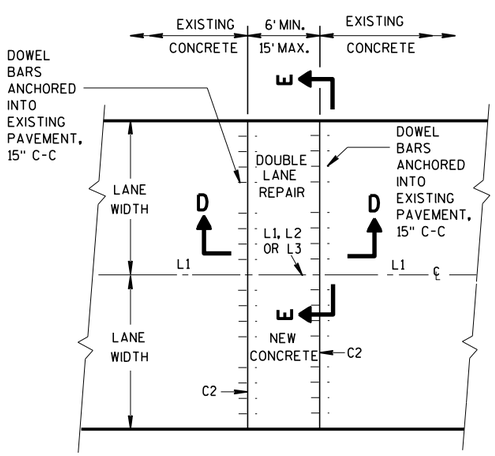
ANCHOR DOWEL BARS AND TIE BARS INTO DRILLED HOLES WITH AN EPOXY.

PROVIDE A MINIMUM DISTANCE OF 15 INCHES FROM AN EXISTING TRANSVERSE JOINT OR THE EDGE OF REPLACEMENT TO THE CENTER OF THE TIE BAR NEAREST THAT JOINT OR EDGE.

(1) APPLY A THIN UNIFORM COATING OF SURFACE TREATMENT TO THE FREE END OF DOWEL BARS TO PREVENT BONDING.

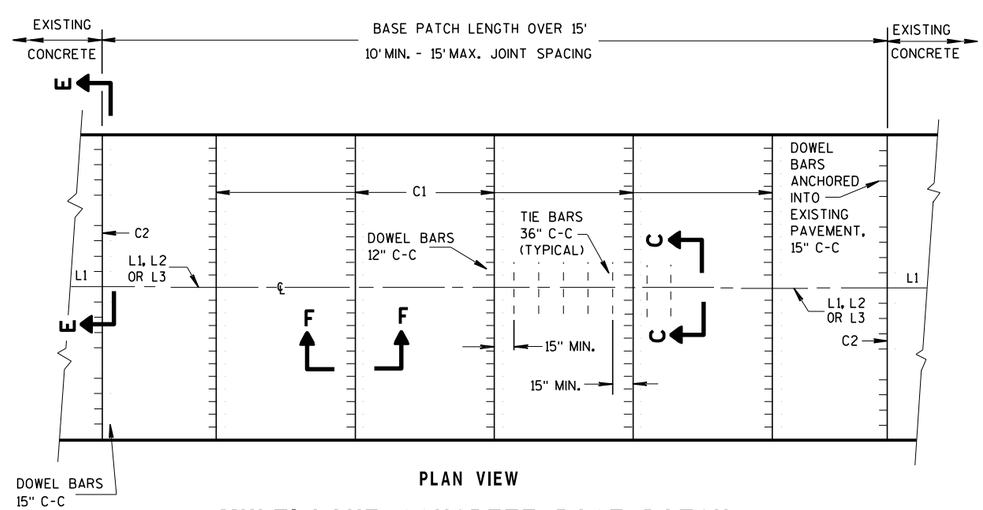


SECTION D-D



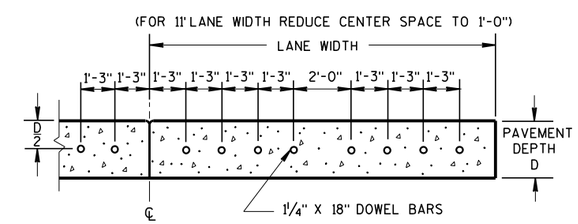
PLAN VIEW

MULTI-LANE CONCRETE BASE PATCH 15' MAXIMUM LENGTH



PLAN VIEW

MULTI-LANE CONCRETE BASE PATCH GREATER THAN 15' IN LENGTH



SECTION E-E

SPACING OF DOWEL BARS ANCHORED INTO EXISTING PAVEMENT

BASE PATCHING CONCRETE

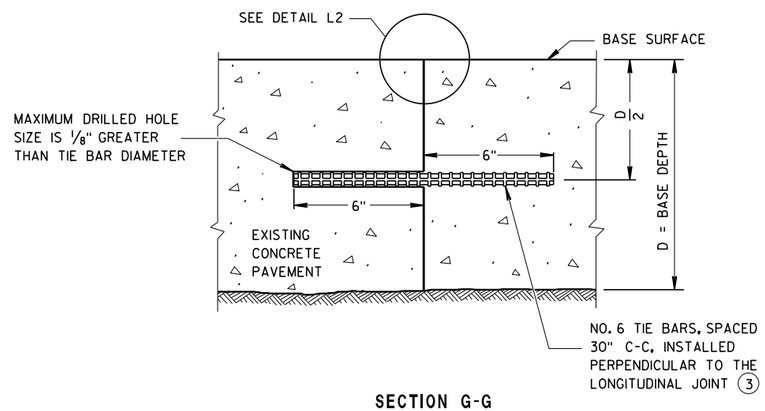
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

GENERAL NOTES

1. USE AN ENGINEER-APPROVED BOND BREAKER (E.G. RELEASE AGENT, CURING COMPOUND) FOR SINGLE LANE BASE PATCHES UP TO 15 FEET IN LENGTH.

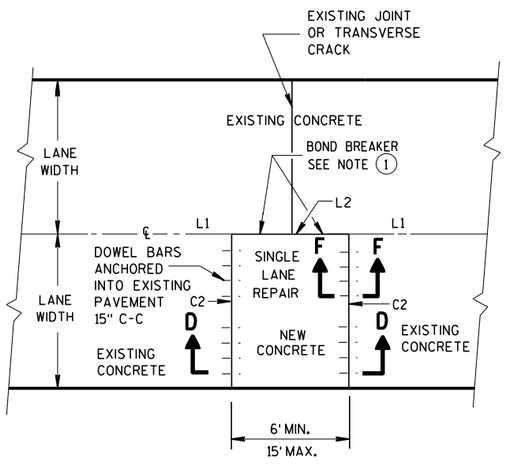
2. WITH THE APPROVAL OF THE ENGINEER, FOR SINGLE LANE PAVEMENT REPLACEMENTS LESS THAN 30 FEET IN LENGTH, DRILLED TIE BARS MAY BE INSTALLED ON 6:1 SKEW HORIZONTALLY. DIRECTION OF SKEW ALTERNATING WITH EACH SUCCESSIVE BAR. DRIVE SKEWED TIE BARS TO A DEPTH OF 6 INCHES IN A HOLE OF SUCH A DIAMETER AS TO PROVIDE A TIGHT DRIVEN FIT.

3. ANCHOR TIE BARS INTO DRILLED HOLES WITH AN EPOXY.



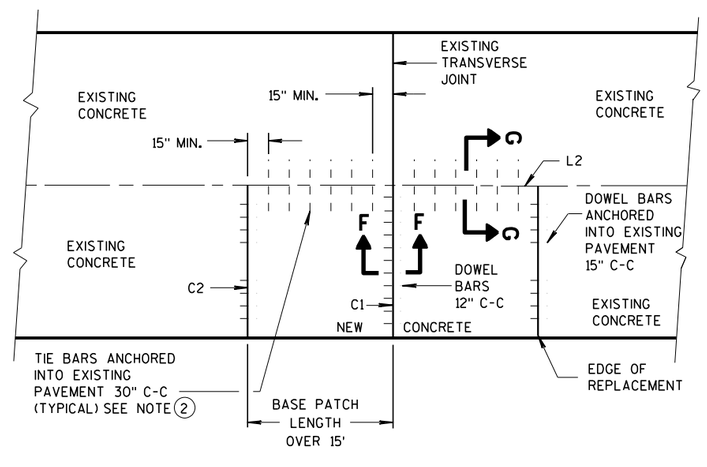
SECTION G-G

TIE BARS ANCHORED INTO EXISTING PAVEMENT



PLAN VIEW

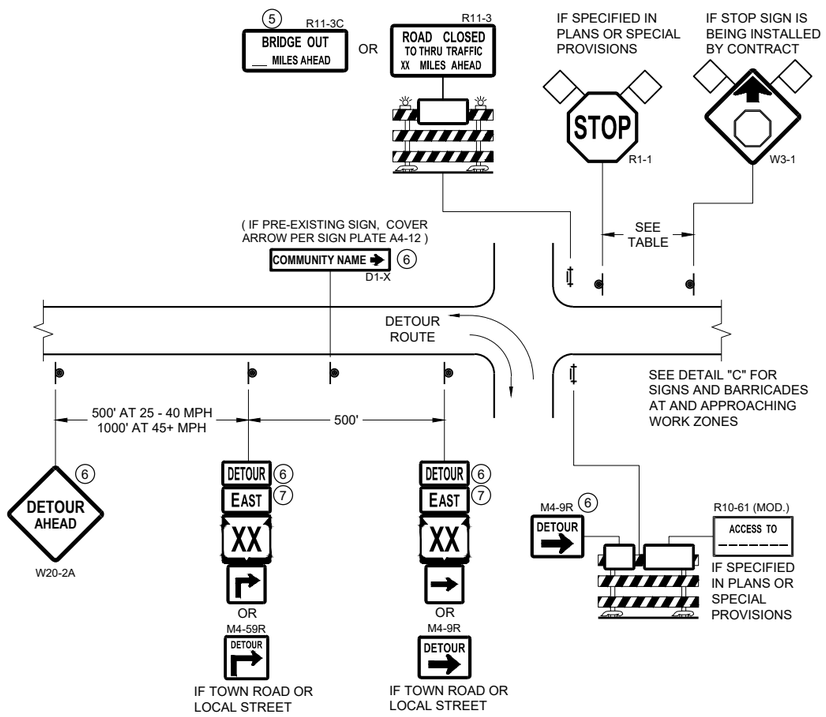
SINGLE LANE CONCRETE BASE PATCH 15' MAXIMUM LENGTH



PLAN VIEW

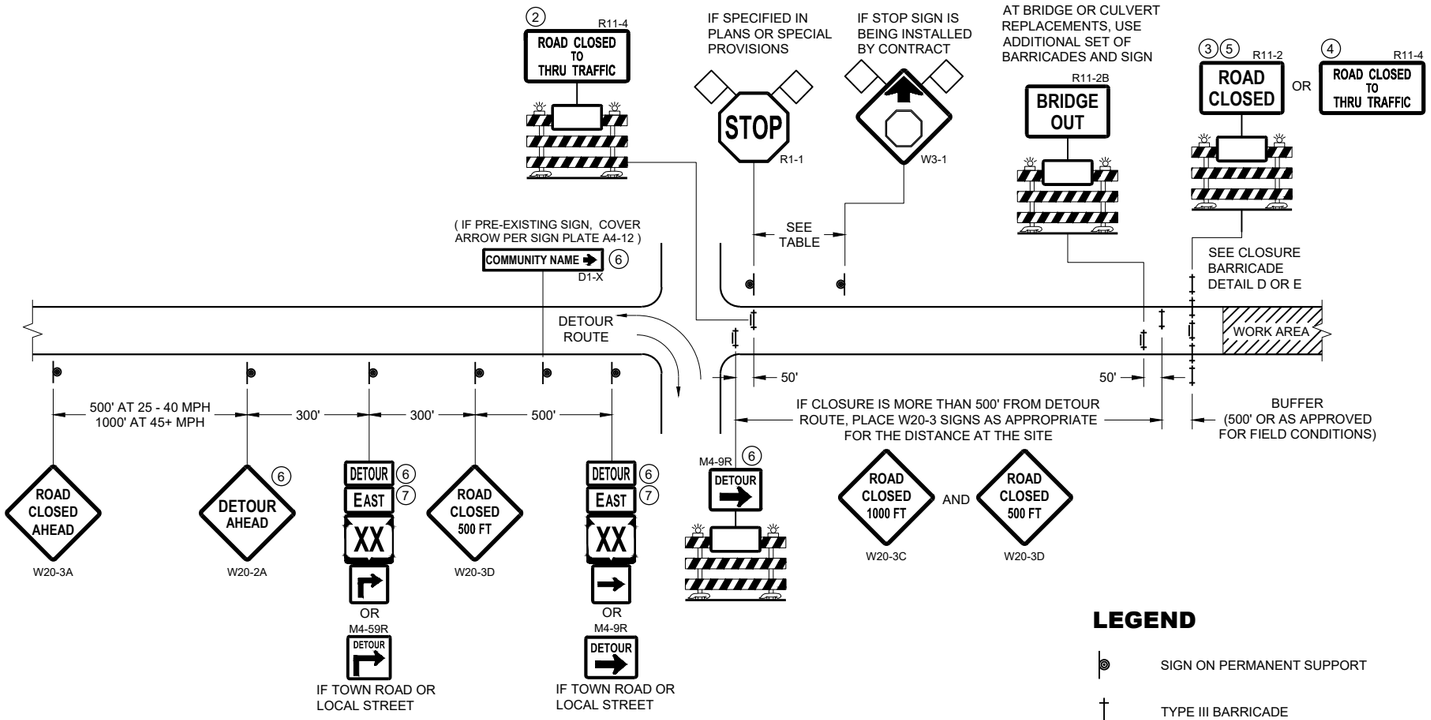
SINGLE LANE CONCRETE BASE PATCH GREATER THAN 15' IN LENGTH

BASE PATCHING CONCRETE	
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION	
APPROVED March 2018 DATE	/S/ Peter Kemp P.E. PAVEMENT SUPER
FHWA	



DETAIL A
MAINLINE CLOSURE WITH POSTED DETOUR

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

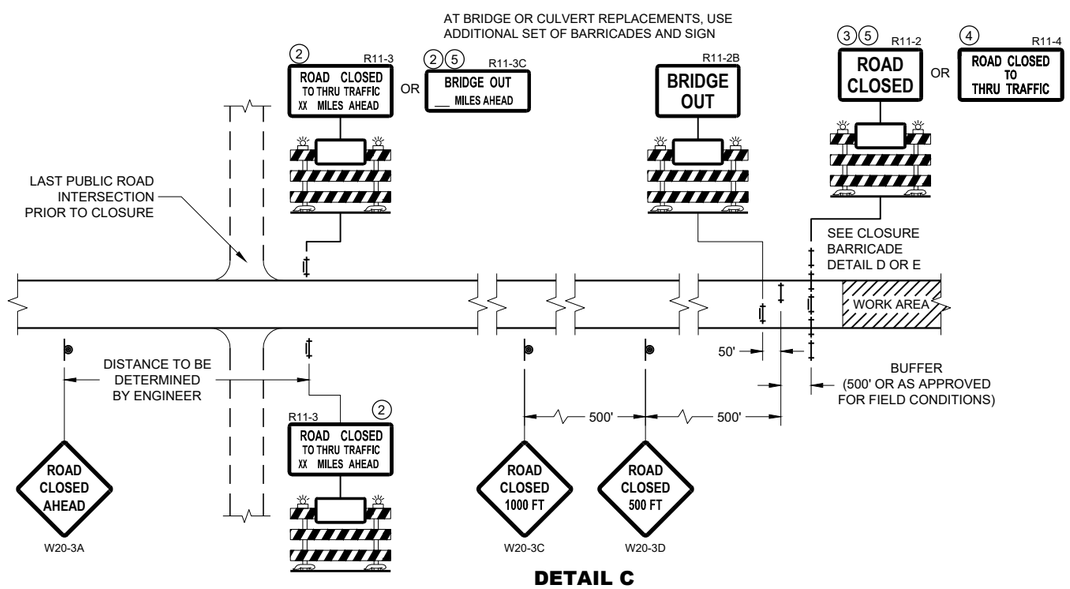


DETAIL B
MAINLINE CLOSURE WITH POSTED DETOUR

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
February 2020 — DATE
/S/ Andrew Heidtke — WORK ZONE ENGINEER

FHWA

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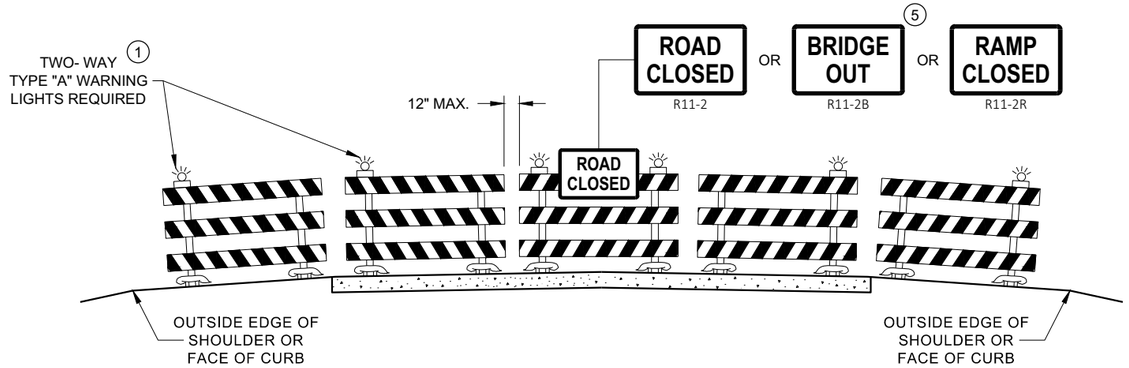
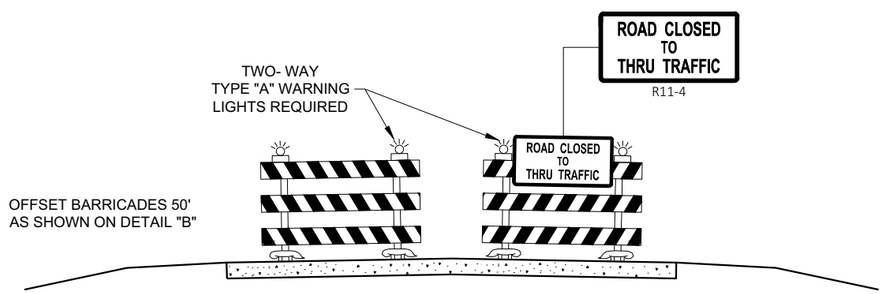
SDD 15C02 - 08a



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
February 2020 — DATE
/S/ Andrew Heidtke — WORK ZONE ENGINEE
FHWA

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SDD 15C02 - 08b

SDD 15C02 - 08b

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.

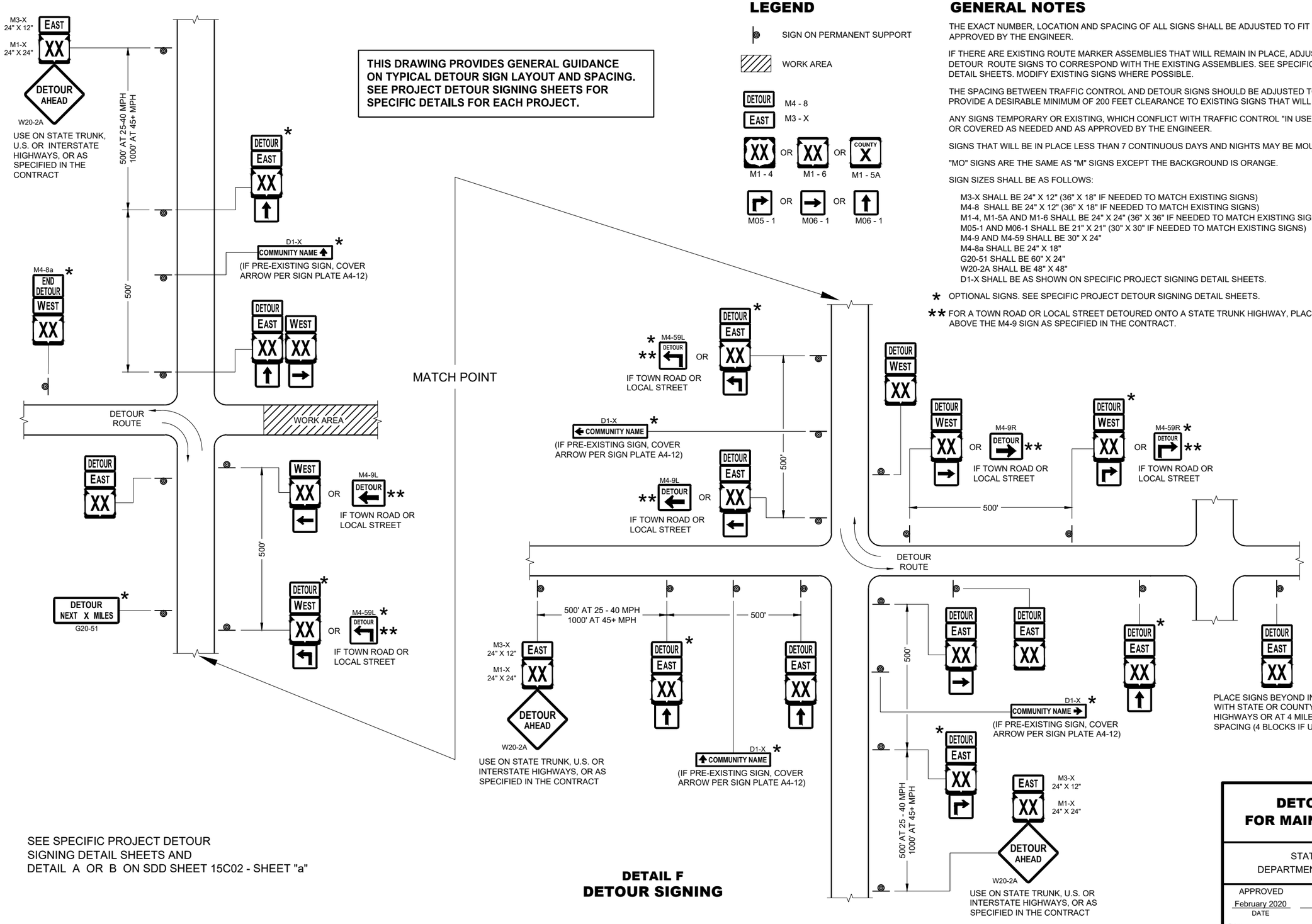
"MO" SIGNS ARE THE SAME AS "M" SIGNS EXCEPT THE BACKGROUND IS ORANGE.

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
February 2020 — DATE
/S/ Andrew Heidtke — WORK ZONE ENGINEER
FHWA

6

SDD 15C02 - 08c

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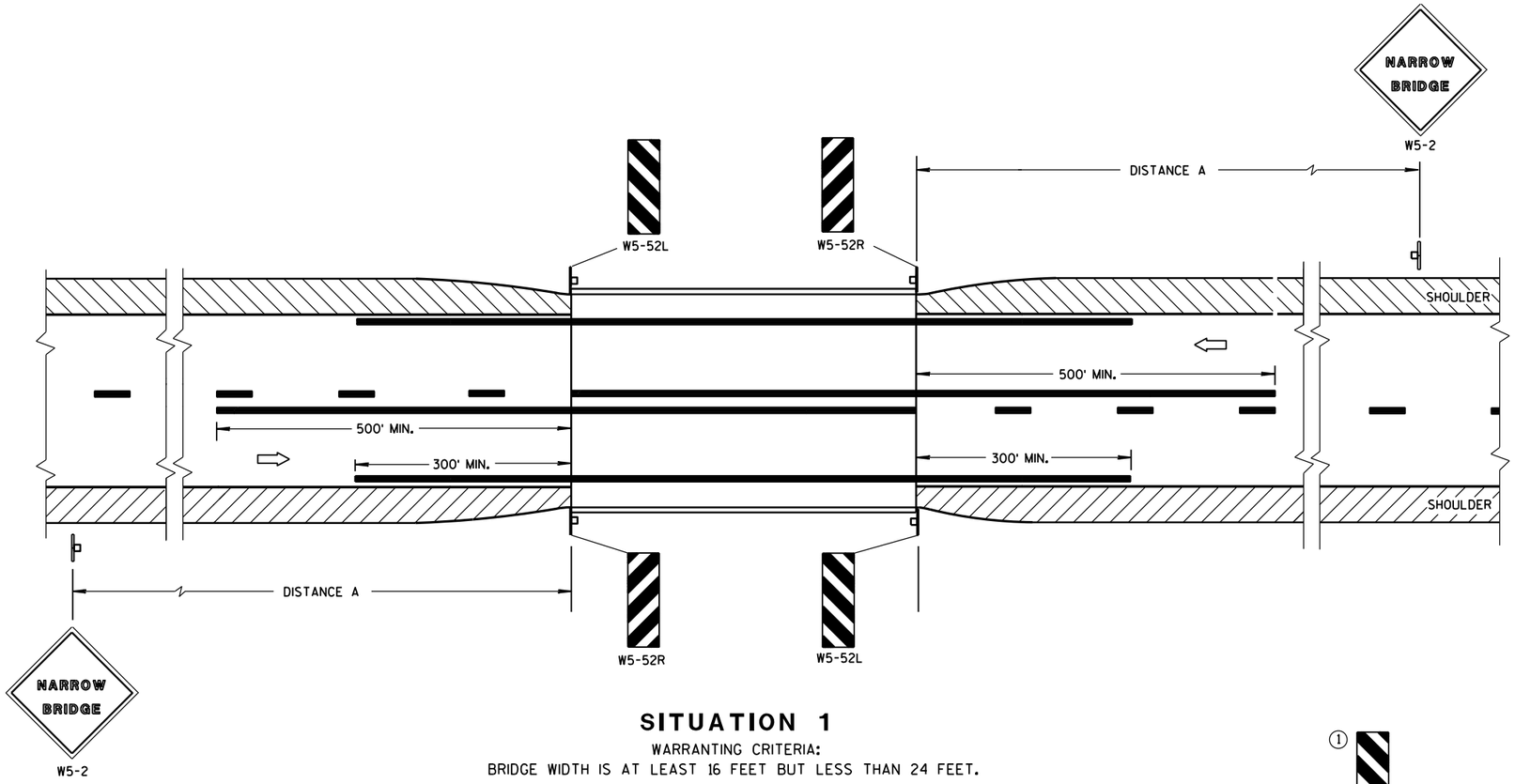
SDD 15C02 - 08c



SITUATION 1

WARRANTING CRITERIA:
BRIDGE WIDTH IS AT LEAST 16 FEET BUT LESS THAN 24 FEET.

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.

LOCATE W5-52 SIGN POST(S) BEHIND GUARDRAIL WHEN PRESENT.

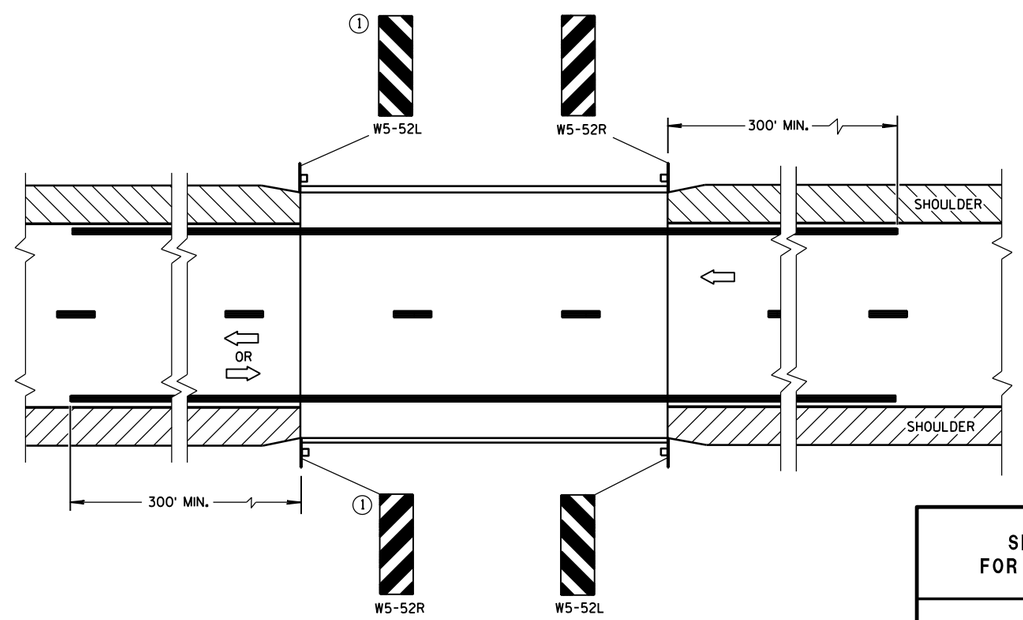
PLACE THE EDGE OF THE W5-52 SIGN IN LINE WITH FACE OF CURB OR PARAPET.

(1) OMIT ON ONE-WAY TRAVELLED WAYS.

⇨ DIRECTION OF TRAFFIC

DISTANCE TABLE

POSTED OR 85th PERCENTILE SPEED	DISTANCE "A"
25	150'
30	200'
35	250'
40	300'
45	400'
50	550'
55	750'



SITUATION 2

WARRANTING CRITERIA:
1. BRIDGE WIDTH IS AT LEAST 24 FEET AND
2. BRIDGE SHOULDER WIDTH IS LESS THAN 6 FEET.

SIGNING & MARKING
FOR TWO LANE BRIDGES

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
June 2017 /S/ Matthew R. Rauch
DATE STATE SIGNING AND MAR NEER
FHWA

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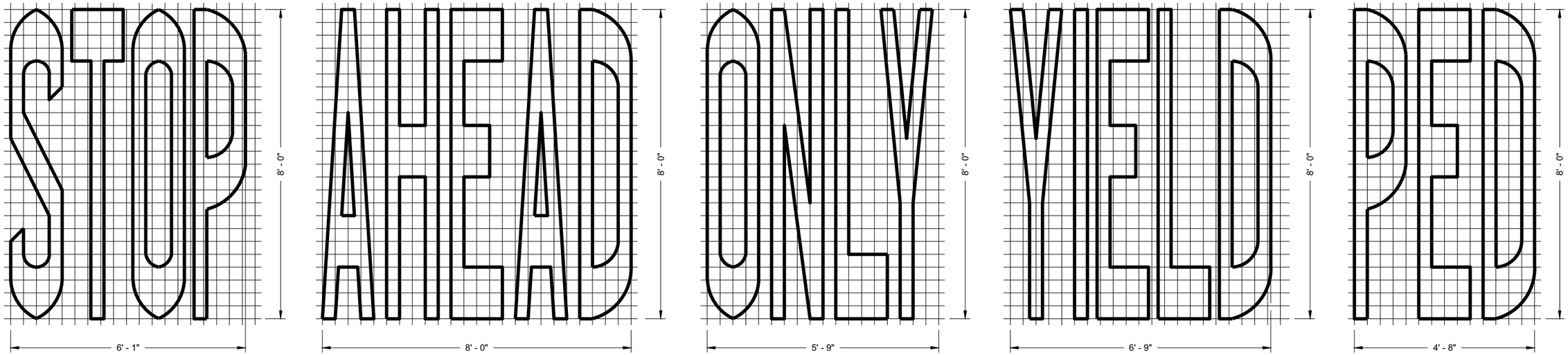
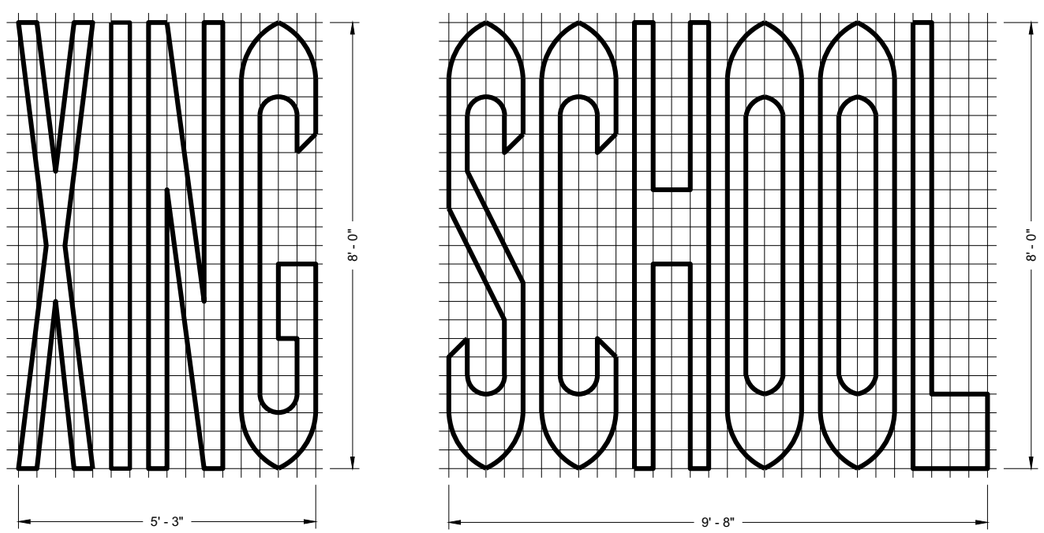
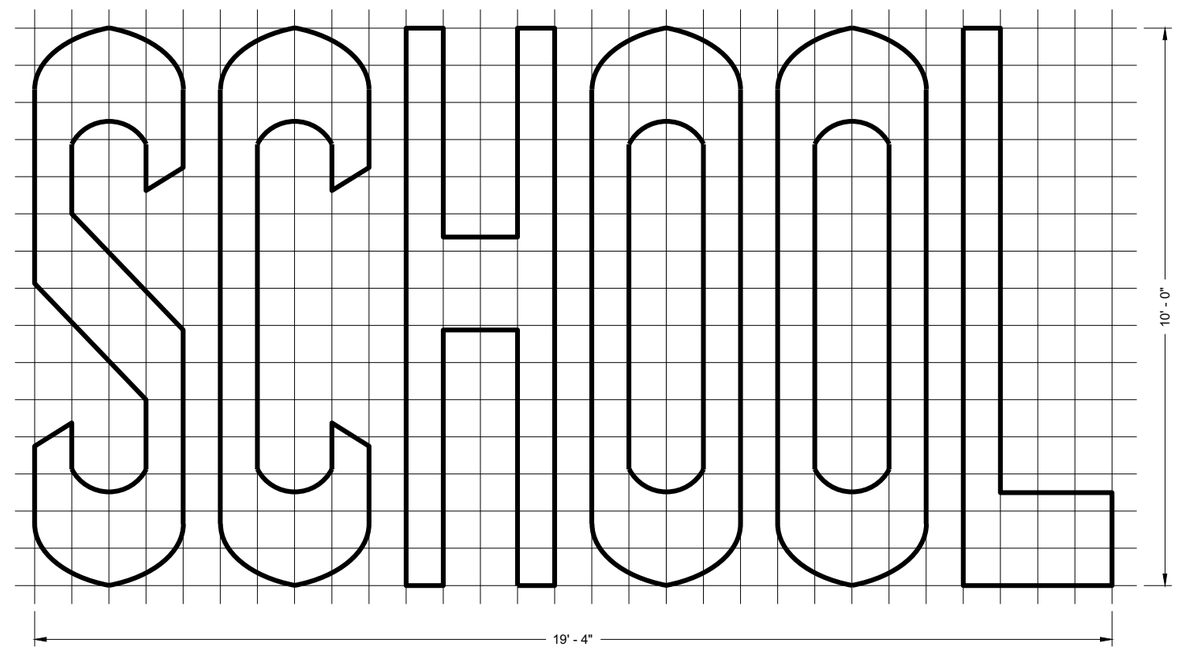
S.D.D. 15 C 6-9

S.D.D. 15 C 6-9





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

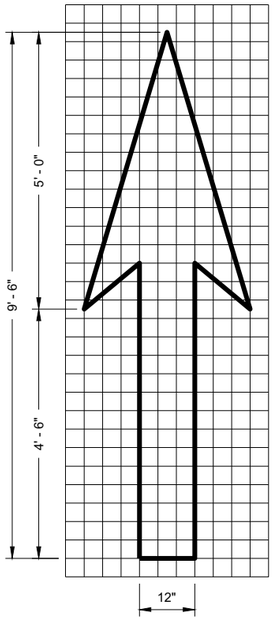
FHWA

SDD 15C07 - 15b

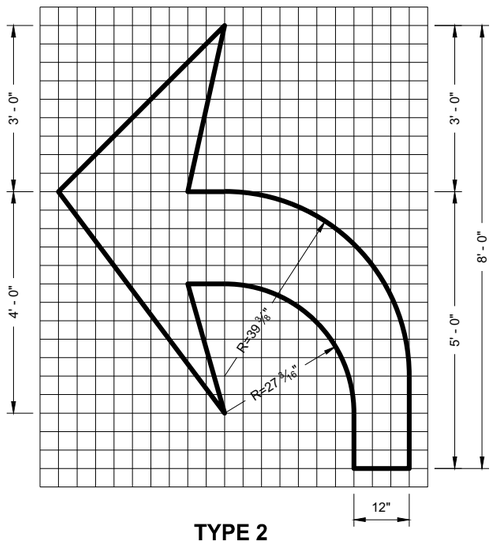
SDD 15C07 - 15b

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.



TYPE 1



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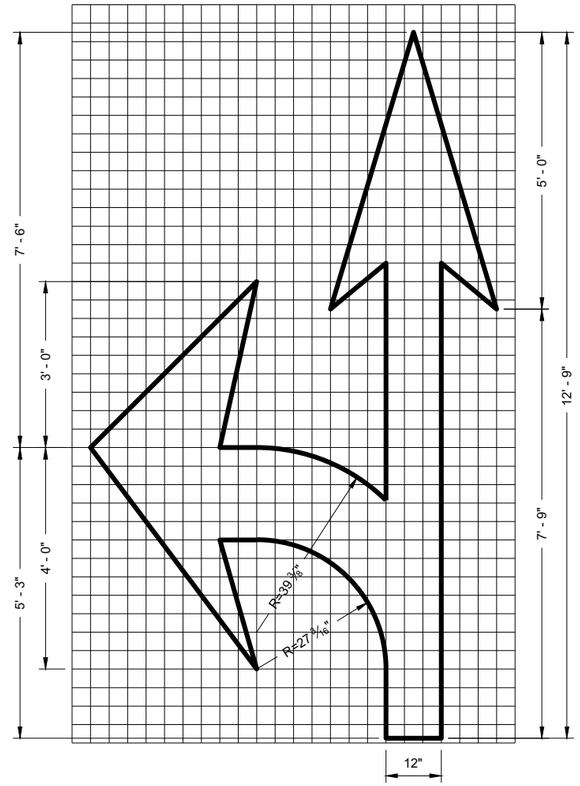

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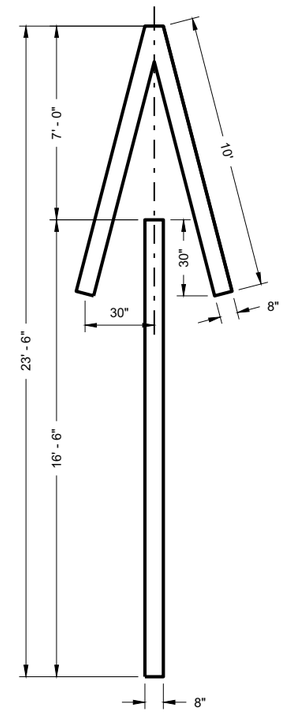

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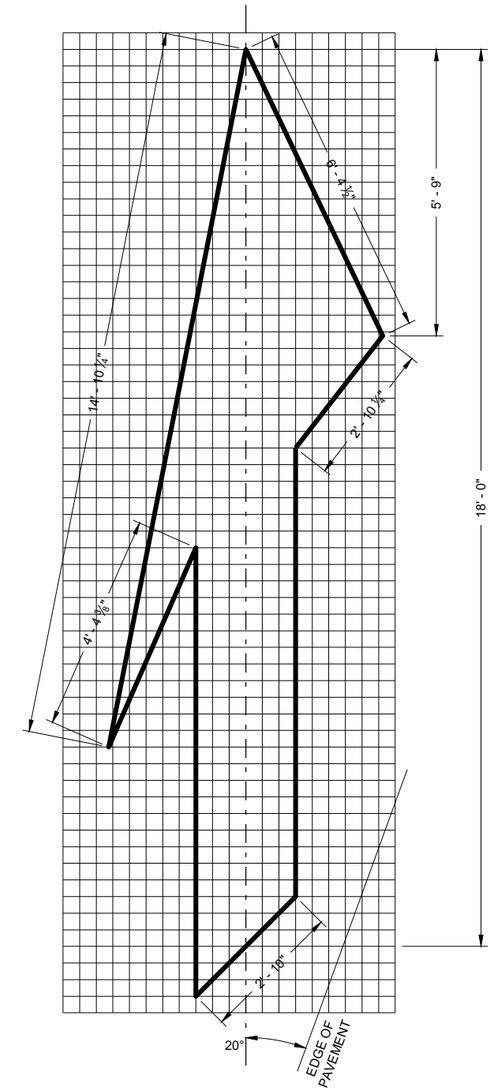
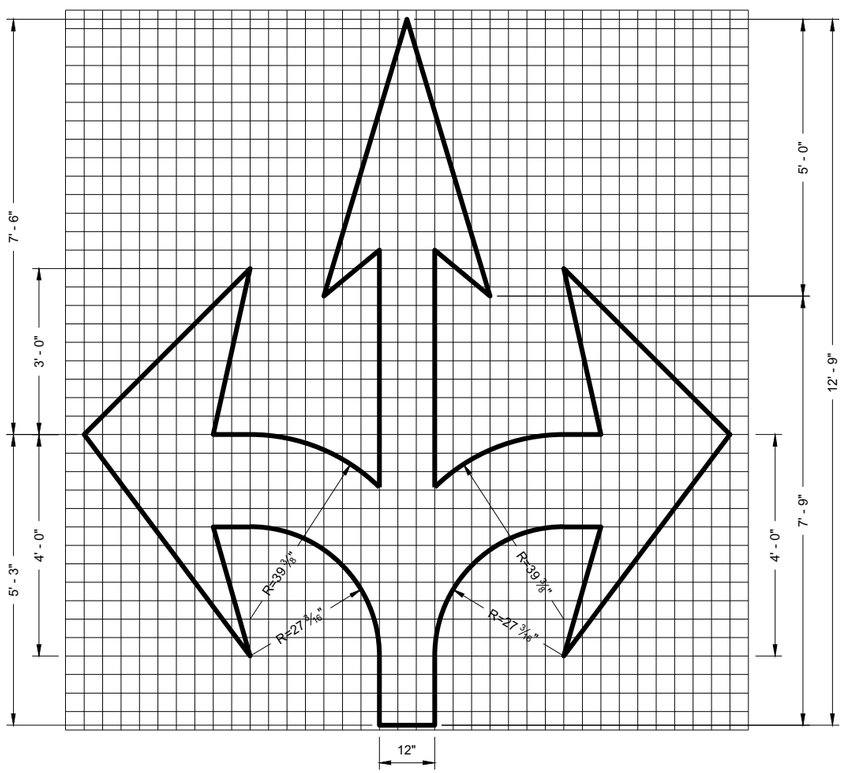
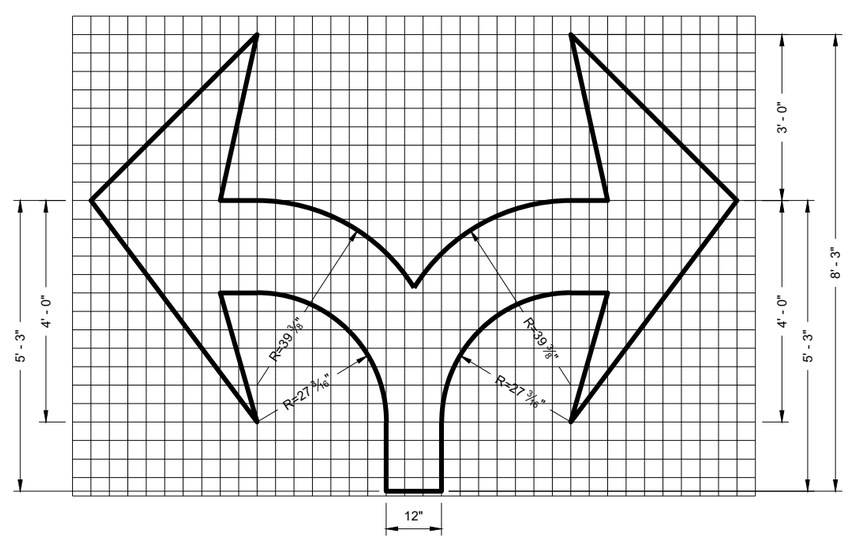


TYPE 5 LANE DROP ARROW



TYPE 6



TYPE 7

6

6

PAVEMENT MARKING ARROWS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

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November 2019 — DATE
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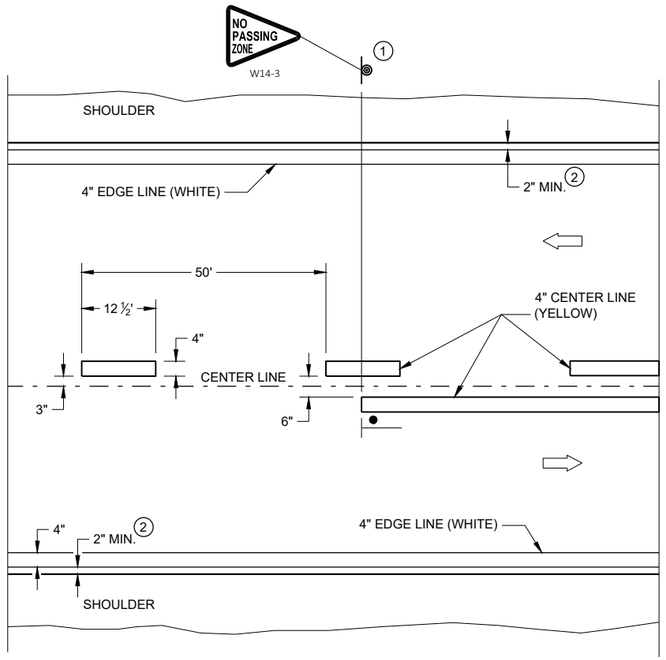
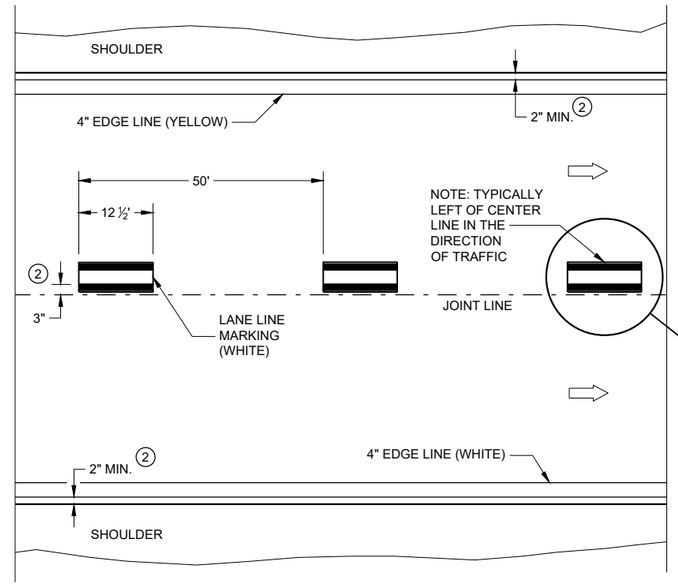
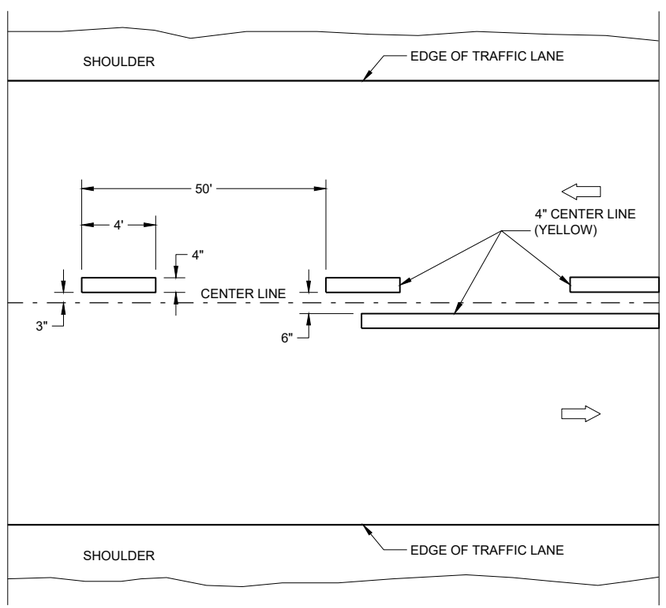


TWO WAY TRAFFIC

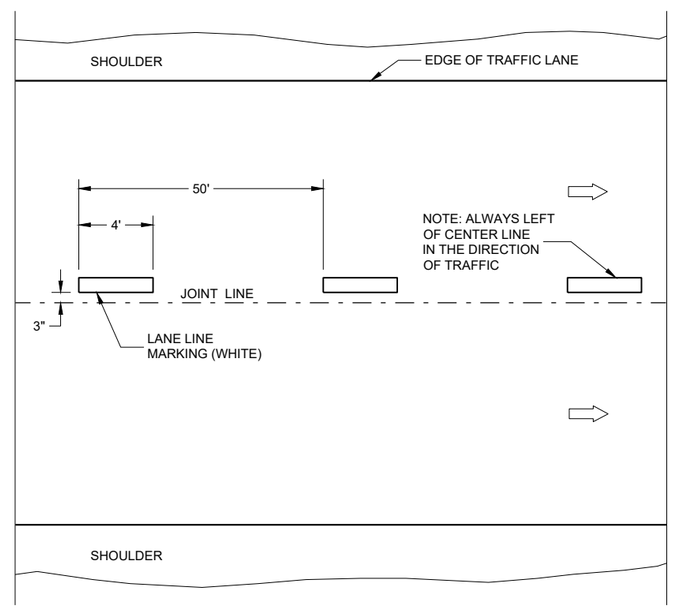


ONE WAY TRAFFIC

PERMANENT PAVEMENT MARKING



TWO WAY TRAFFIC



ONE WAY TRAFFIC

TEMPORARY PAVEMENT MARKING

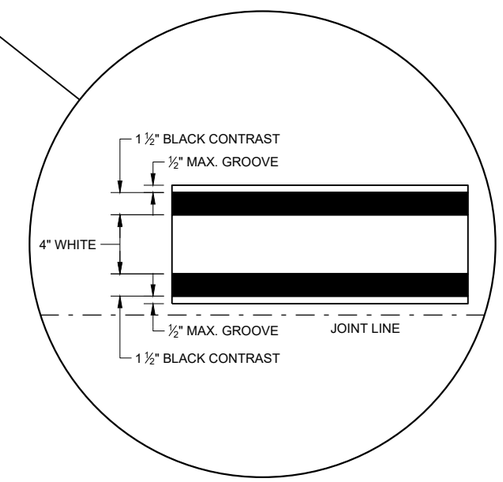
GENERAL NOTES

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



LONGITUDINAL MARKING (MAINLINE)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
February 2020 — DATE
/S/ Matthew Rauch — STATEWIDE SIGNING AND M ENGINEER
FHWA

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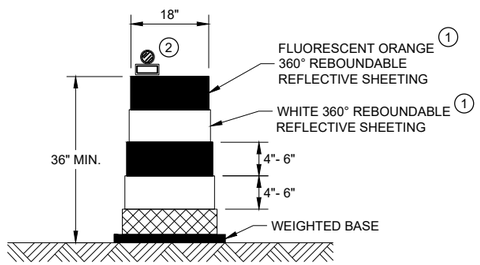
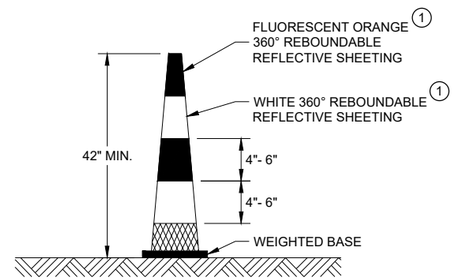
SDD 15C08 - 20a

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.

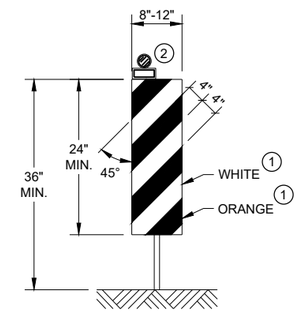


DRUM



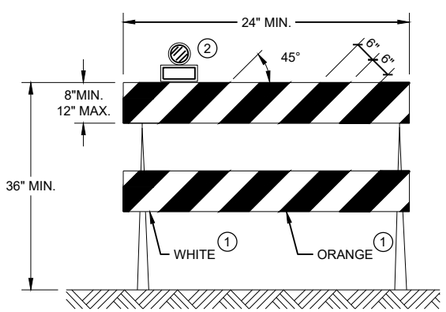
42" CONE

DO NOT USE IN TAPERS
½ SPACING OF DRUMS



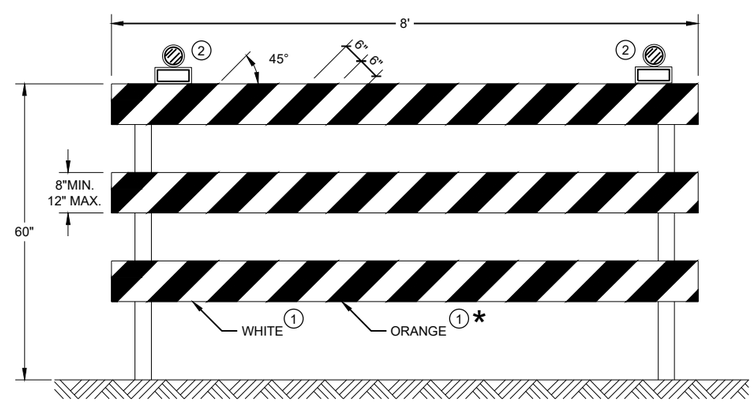
VERTICAL PANEL

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
May 2021 — DATE
/S/ Andrew Heidtke — WORK ZONE ENGINEE
FHWA

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SDD 15C11 - 09b

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.

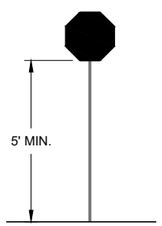
(3) EACH TEMPORARY PORTABLE RUMBLE STRIP ARRAY CONSISTS OF THREE RUMBLE STRIPS SPACED ACCORDING TO MANUFACTURER'S RECOMMENDATION, PLACED TRANSVERSE ACROSS THE LANE AT LOCATIONS SHOWN.

ONLY USE TEMPORARY PORTABLE RUMBLE STRIPS FOR 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.

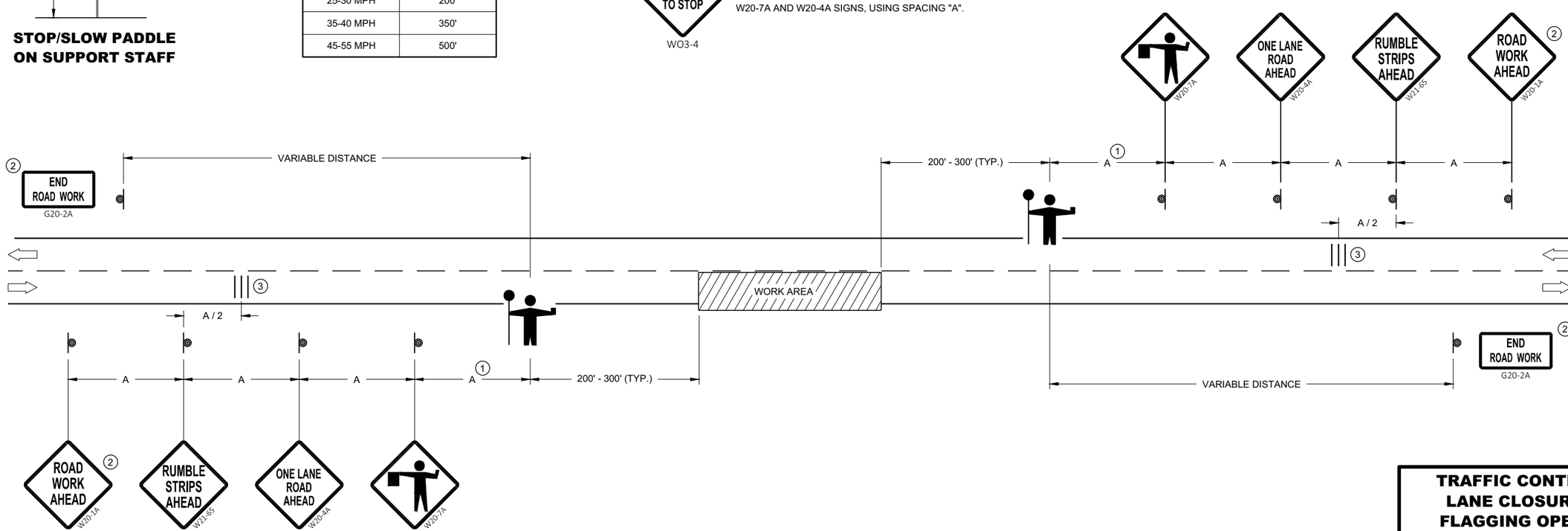


STOP/SLOW PADDLE ON SUPPORT STAFF

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 WO3-4 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

TRAFFIC CONTROL FOR LANE CLOSURE WITH FLAGGING OPERATION

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
May 2019 — DATE
/S/ Andrew Heidtke — WORK ZONE ENGINEE
FHWA

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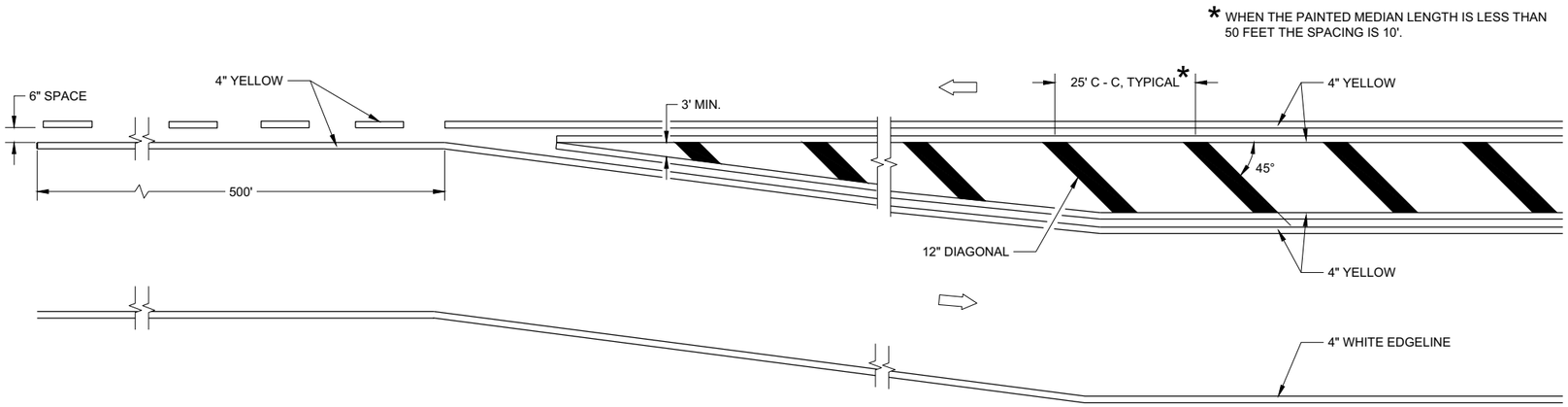
SDD 15C12 - 07

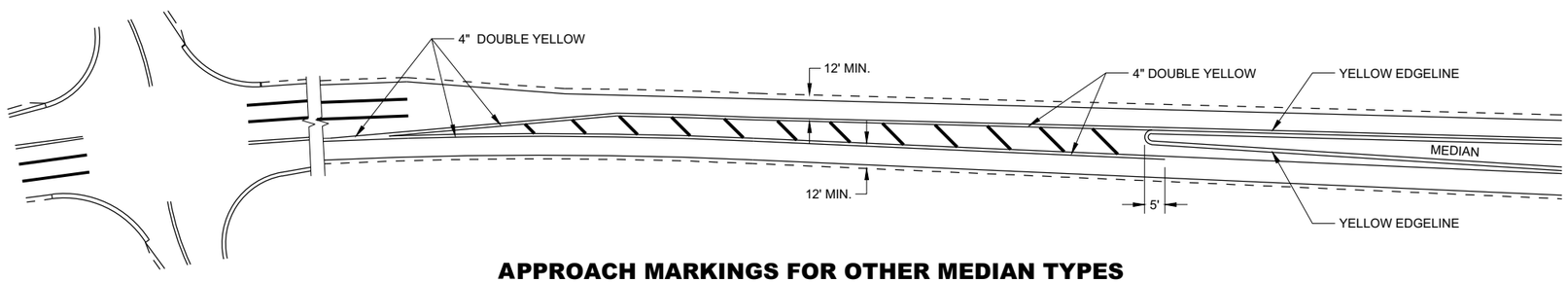
GENERAL NOTES

DIAGONALS ARE OPTIONAL WHEN PAINED ISLAND IS LESS THAN 6 FEET AT WIDEST POINT.

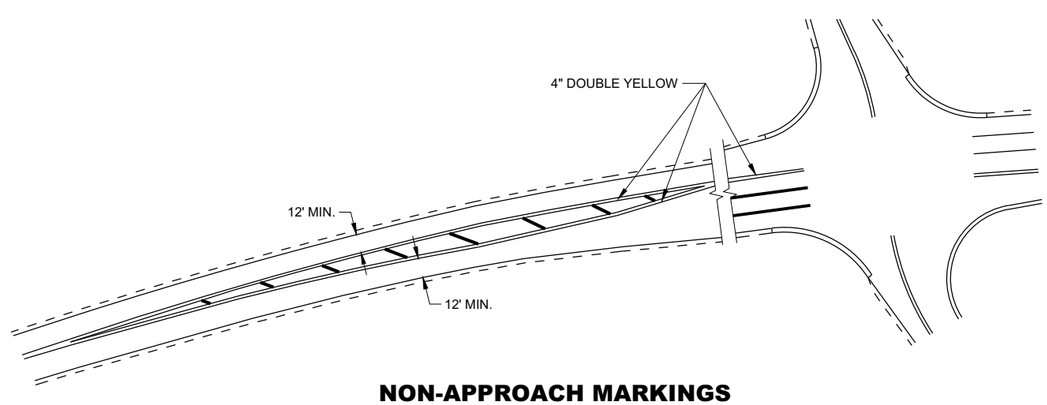
DIRECTION OF TRAVEL



MEDIAN ISLAND DETAIL



APPROACH MARKINGS FOR OTHER MEDIAN TYPES



NON-APPROACH MARKINGS

6

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SDD 15C18 - 05a

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MEDIAN ISLAND PAVEMENT MARKINGS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

February 2021 — DATE

/S/ Matthew R. Rauch — STATE SIGNING AND MAR ENGINEER

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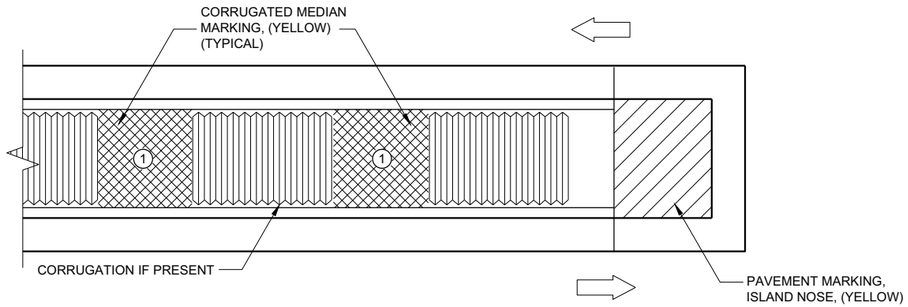
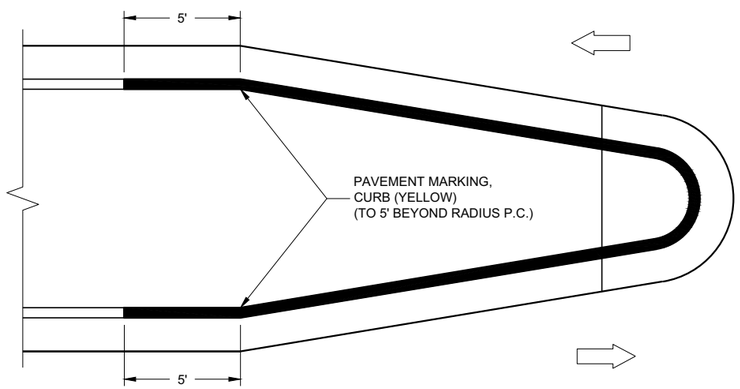
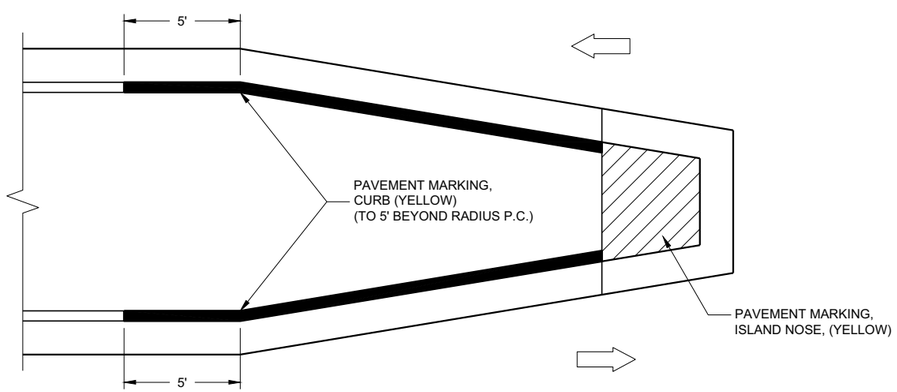


MEDIAN ISLAND WITH SQUARE BLUNT NOSE



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.

ISLAND NOSE MARKING

CURB MARKING

CORRUGATED MEDIAN MARKING

DIRECTION OF TRAVEL

PAVEMENT MARKINGS,
MEDIAN ISLAND NOSE

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
February 2021 — DATE
/S/ Matthew R. Rauch — STATE SIGNING AND MAR ENGINEER
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SDD 15C18 - 05b

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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

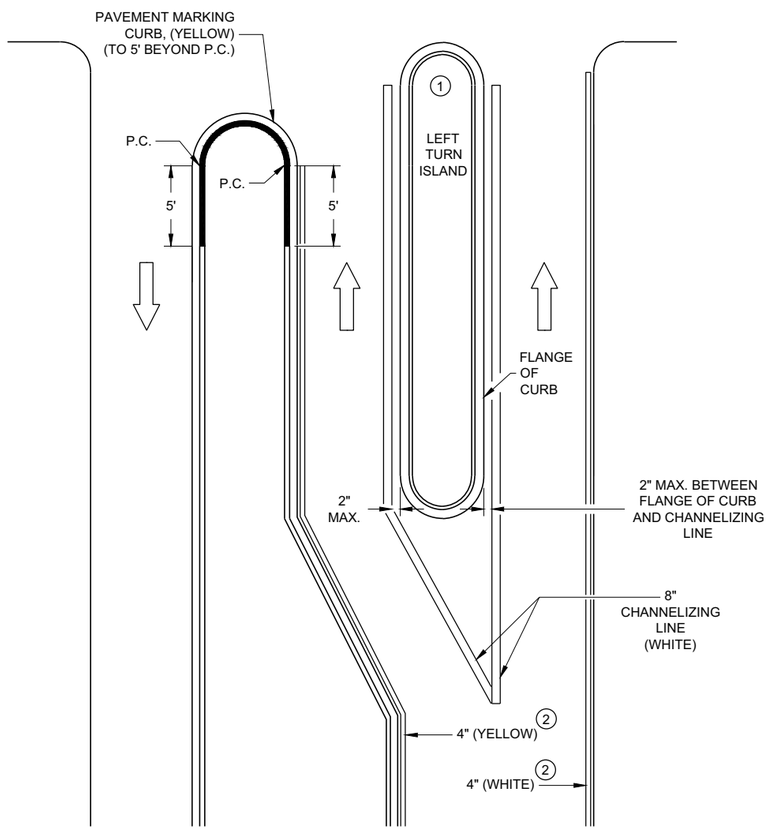
APPLIES TO ISLANDS AT LEFT TURNS AT ONE WAY ROADWAYS AS WELL.

SEE MISCELLANEOUS QUANTITIES FOR SIGN SIZE.

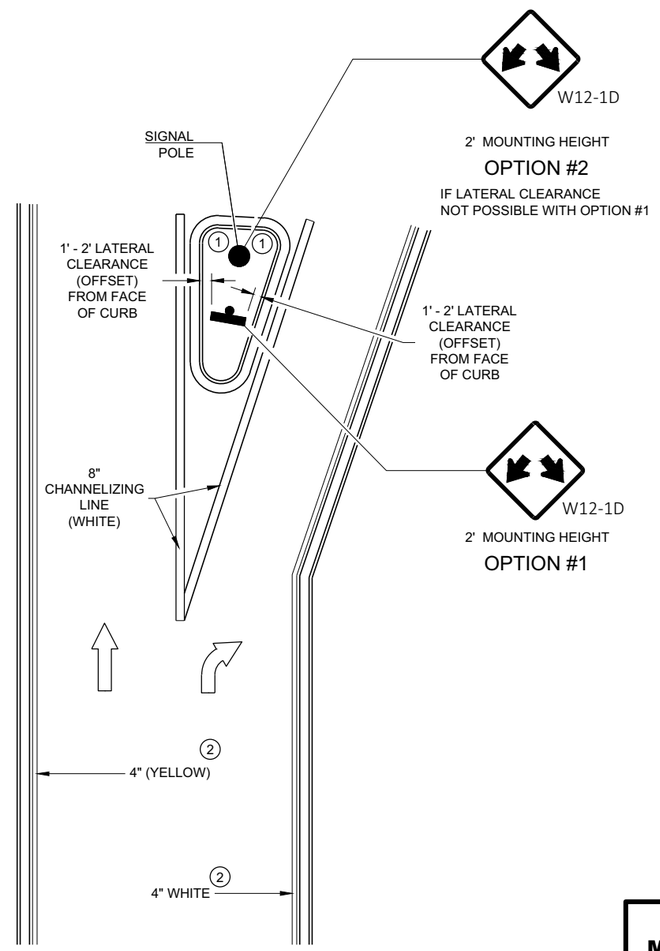
(1) MARK CURB NOSES YELLOW.

(2) MARK ACCORDING TO TABLE.

DIRECTION OF TRAVEL



LEFT TURN & MEDIAN ISLAND



RIGHT TURN ISLAND

MEDIAN PAVEMENT MARKINGS, DOUBLE ARROW WARNING SIGN PLACEMENT

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
February 2021 — DATE
/S/ Matthew R. Rauch — STATE SIGNING AND MAR ENGINEER
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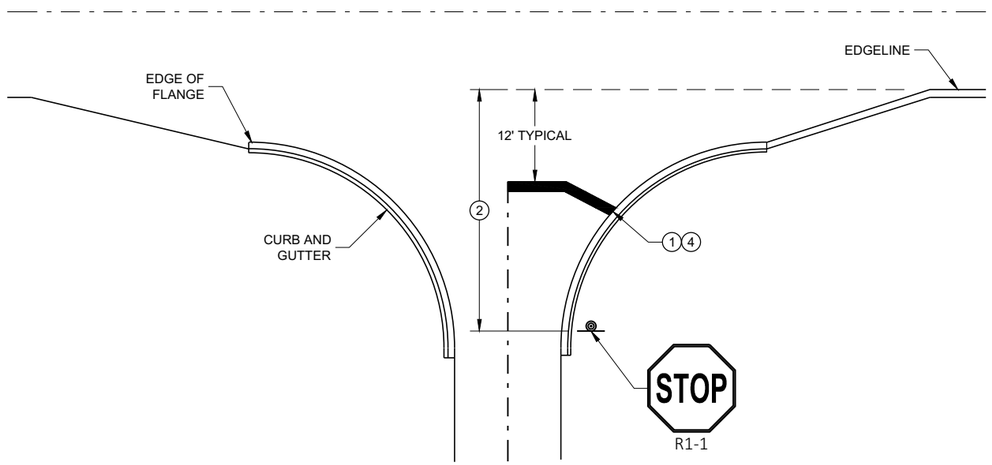
SDD 15C18 - 05c

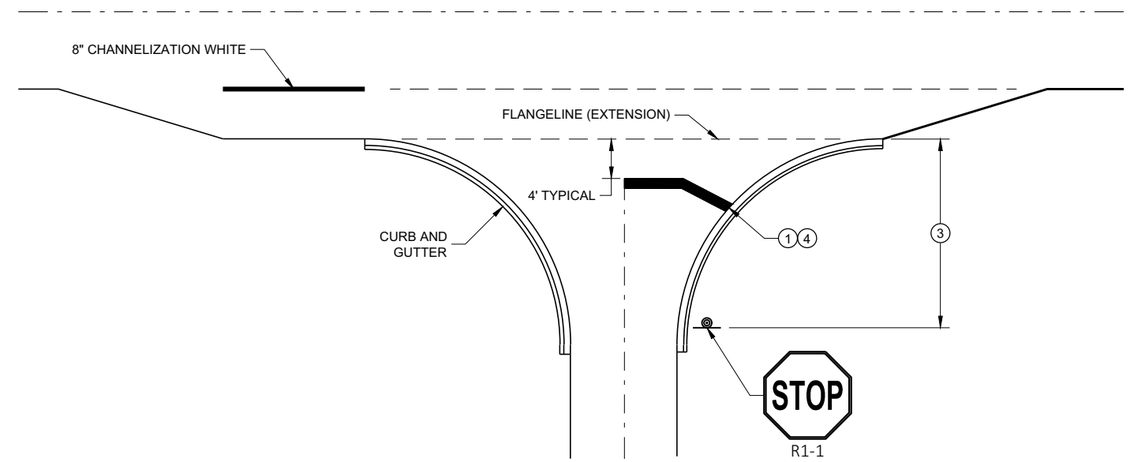
GENERAL NOTES

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

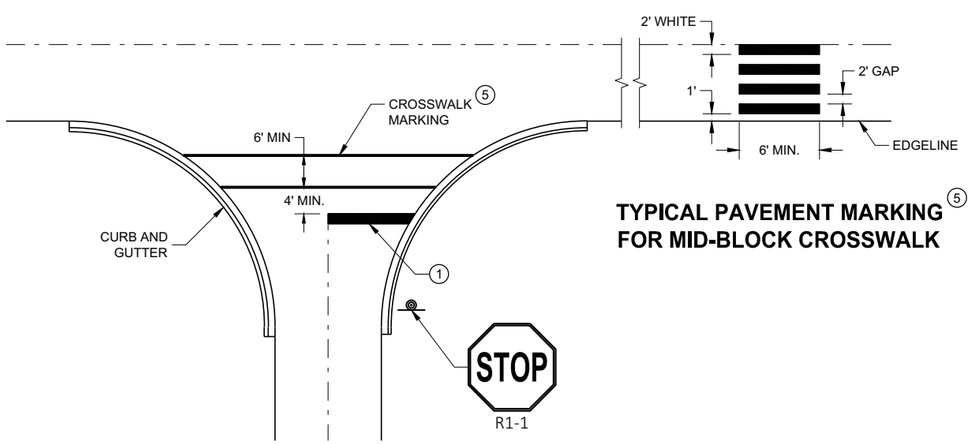
1. 18-INCH STOP LINES MAY BE DELETED OR ADDED BY THE REGION MARKING ENGINEER BASED ON VISIBILITY AND SIGHT LINES.
2. NO STOP LINE IS REQUIRED IF STOP SIGN IS LESS THAN OR EQUAL TO 40 FEET FROM THE EDGELINE.
3. NO STOP LINE IS REQUIRED IF STOP SIGN IS LESS THAN OR EQUAL TO 30 FEET FROM THE FLANGELINE 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

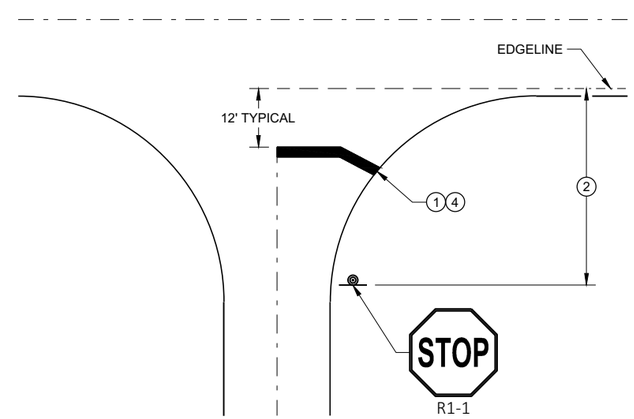


TYPICAL STOP LINE PAVEMENT MARKING FOR SIDEROADS WITH RIGHT TURN LANE



TYPICAL PAVEMENT MARKING FOR MID-BLOCK CROSSWALK 5

TYPICAL STOP LINE PAVEMENT MARKING FOR SIDEROADS WITH CROSSWALK MARKING



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 MAF ENGINEER
FHWA

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SDD 15C33 - 04

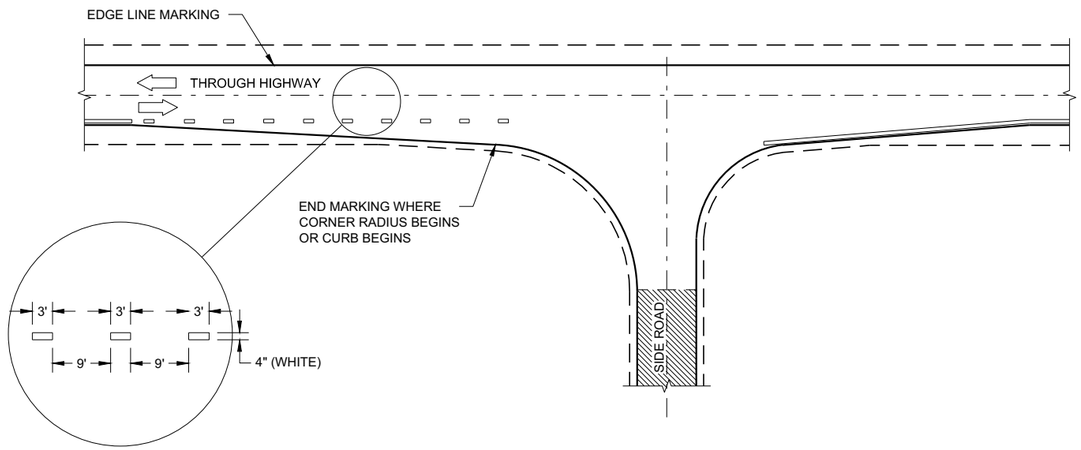
GENERAL NOTES

OMIT EDGE LINES THROUGH INTERSECTIONS. CONTINUE EDGE LINES THROUGH DRIVEWAYS.

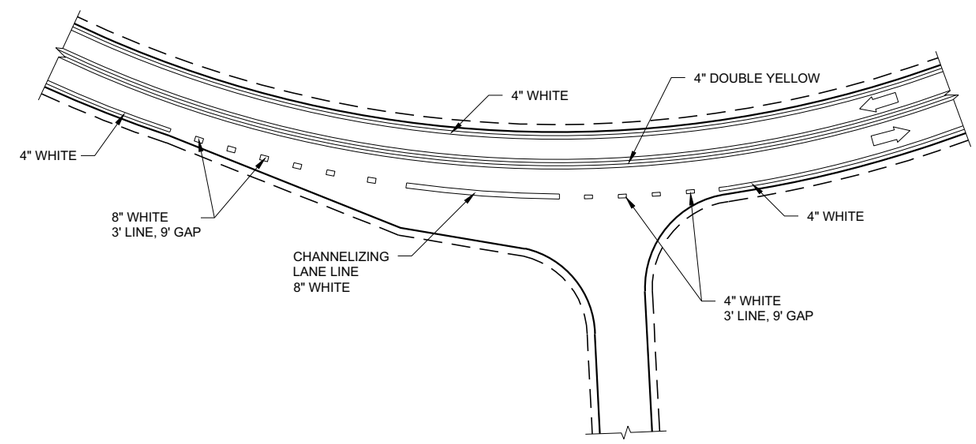
1. WHEN DISTANCE "A" IS LESS THAN 250 FEET, OMIT LANE LINE.
2. WHEN DISTANCE "B" IS LESS THAN 100 FEET, OMIT CHANNELIZING LANE LINE.
3. BARRIER LINE ENDS AT SIDE ROAD PAVEMENT / SURFACE EDGE EXTENSION.
4. BARRIER LINE STARTS 500 FEET PRIOR TO THE BYPASS TAPER.

LEGEND

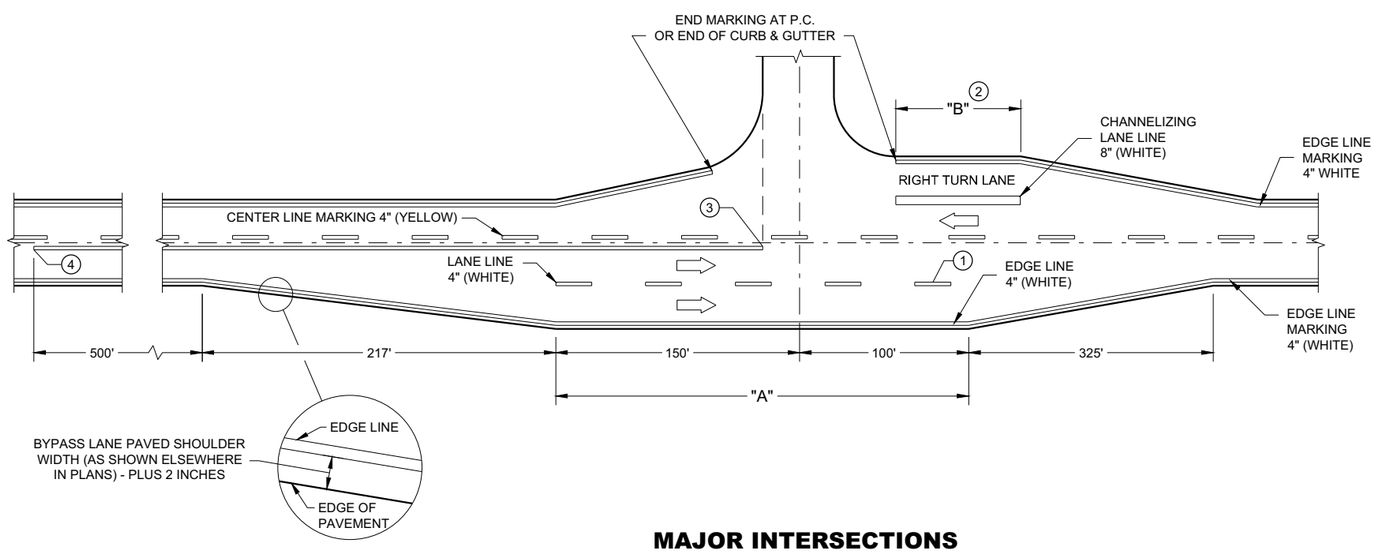
DIRECTION OF TRAVEL



MINOR INTERSECTION



INTERSECTION ON OUTSIDE OF CURVE



MAJOR INTERSECTIONS

(INTERSECTION WITH FULL RIGHT TURN LANE OR BYPASS LANE)

PAVEMENT MARKING (INTERSECTIONS)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTAT

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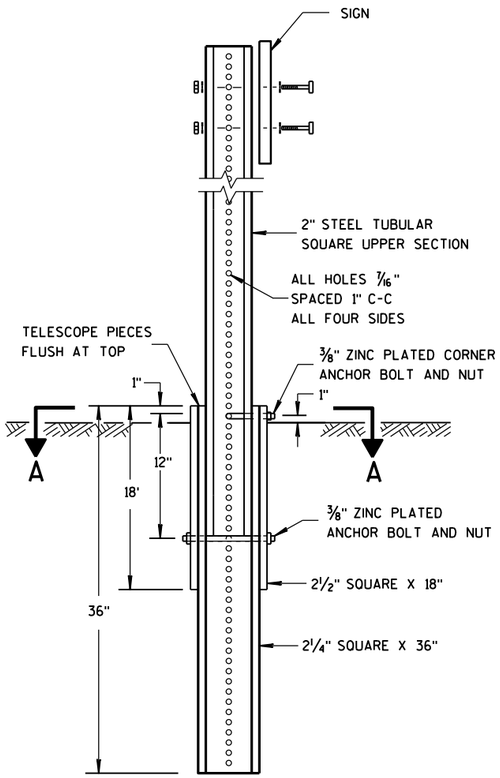
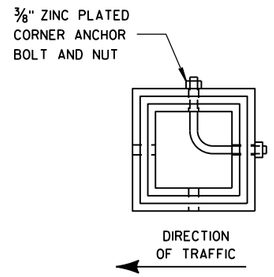
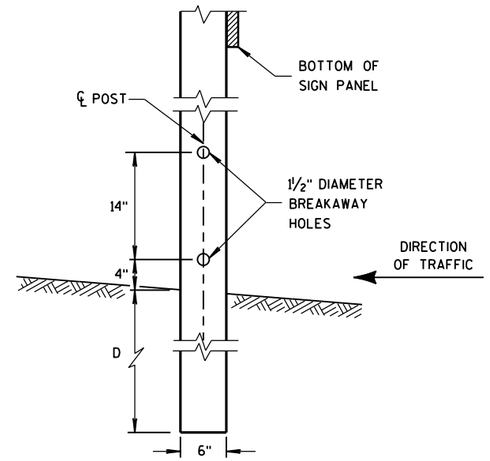
SDD 15C35 - 04a



DETAIL OF TUBULAR STEEL SIGN POST



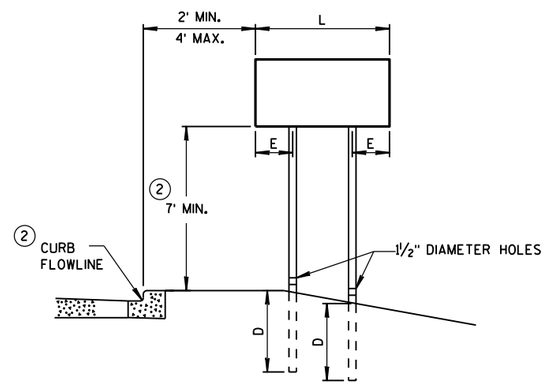
SECTION A-A



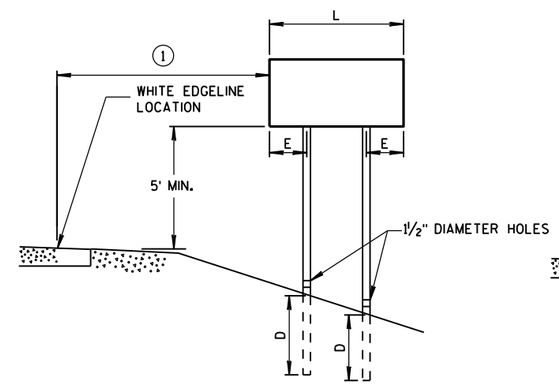
4"x6" WOOD POST MODIFICATION

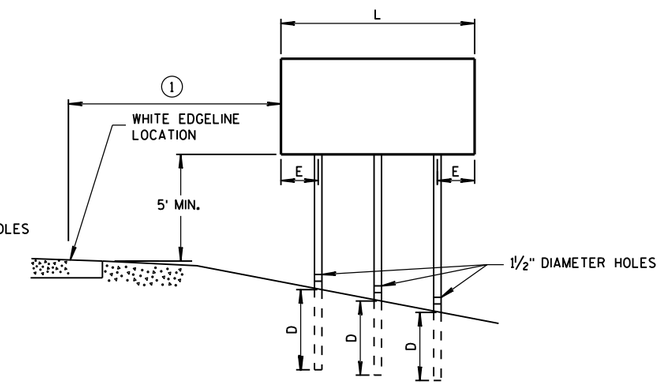
GENERAL NOTES

1. 6 FEET FROM THE EDGE OF PAVEMENT (EDGE LINE LOCATION) UNLESS OTHERWISE DIRECTED BY THE PROJECT ENGINEER. LATERAL OFFSET SHOULD BE ADJUSTED TO AVOID THE DITCH FLOWLINE.
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. IF NO SIDEWALK AND NO PARKING, VERTICAL CLEARANCE MAY BE REDUCED TO 5 FOOT MINIMUM. OFFSET OF SIGNS IS MEASURED FROM THE CURB FLOWLINE.
3. FOR SIGNS REQUIRING 4 POSTS, SPACE INTERMEDIATE POSTS EVENLY.



URBAN AREA





RURAL AREA

POST MOUNTING DETAIL FOR TEMPORARY TRAFFIC CONTROL FIXED MESSAGE SIGNS

TUBULAR STEEL POSTS

AREA OF SIGN INSTALLATION (SQ. FT.)	NUMBER OF REQUIRED TUBULAR STEEL 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).

SIGNS LARGER THAN 27 SQ. FT. SHALL NOT BE MOUNTED ON TUBULAR STEEL POSTS.

WOOD POST EMBEDMENT DEPTH

AREA OF SIGN INSTALLATION (SQ. FT.)	D (MIN)
20 OR LESS	4'
GREATER THAN 20	5'

4" X 6" WOOD POST

POST SPACING REQUIREMENTS		NUMBER OF WOOD POSTS REQUIRED
L	E	
48" OR LESS AND LESS THAN 20 SQ. FT.	-	1
LESS THAN 60"	12"	2
60" TO 120"	L/5	2
GREATER THAN 120" LESS THAN 168"	12"	3
168" AND GREATER	12"	4

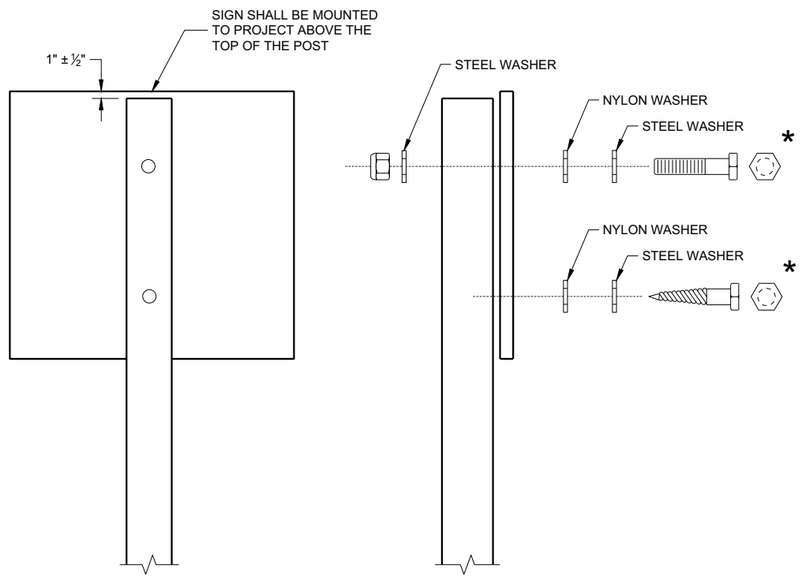
SEE NOTE 3

TEMPORARY TRAFFIC CONTROL SIGN MOUNTING

STATE OF WISCONSIN
DEPARTMENT OF TRANSPO

6

S.D.D. 15 D 38-2a



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.

WOOD POST (4" x 6")
LAG SCREWS - ⅜" x 3"
MACHINE BOLTS - 5/16" x 6 ½" OR 7" LENGTH W/NUTS

SQUARE STEEL POST (2" x 2")
MACHINE BOLTS - ⅜" x 3 ¼" LENGTH W/NUTS
RIVETS - 9/32" (6605-9-6) BULB-TITE, TRI-FOLD, ALUMINUM BODY/MANDREL O.D. FLANGE 0.720 - 0.765 INCH, GRIP RANGE 0.042 - 0.375 INCH

WASHERS (ALL POSTS) -
1 ¼" O.D. x ⅜" I.D. x 1/16" STEEL
1 ¼" O.D. x ⅜" I.D. x 0.080 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. FOR A SINGLE POST INSTALLATION, ALL SIGNS GREATER THAN 9 SQ. FT. REQUIRE THE USE OF 3 FASTENERS.

6

SDD 15D38 - 02b

ATTACHMENT OF SIGNS TO POSTS

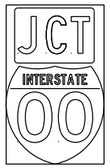
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
June 2017 — DATE
/S/ Andrew Heidtke — WORK ZONE ENGINEE
FHWA

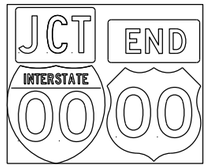
6

SDD 15D38 - 02b

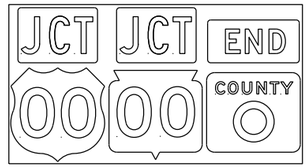
TYPICAL ASSEMBLIES



J1-1



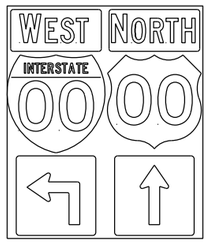
J1-2



J1-3

JR1-1

J2-1



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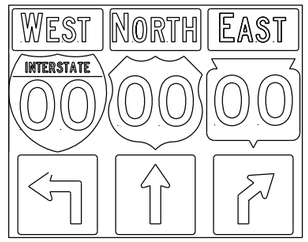

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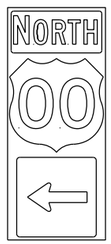
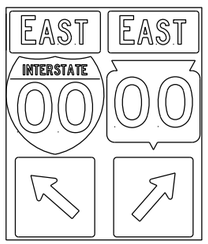
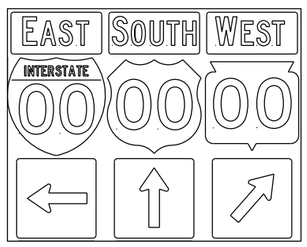


J3-1

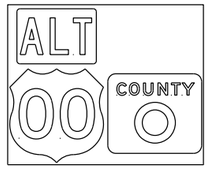


J3-2

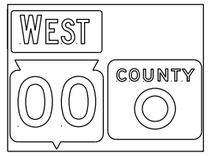


J3-3

J4-1

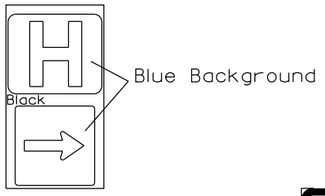


J4-2



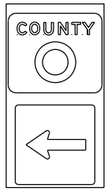
J4-2

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

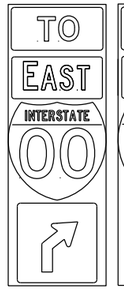


JH-1

J12-1



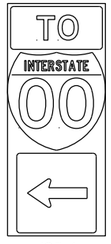
J13-1



J32-1

J33-1

J22-1

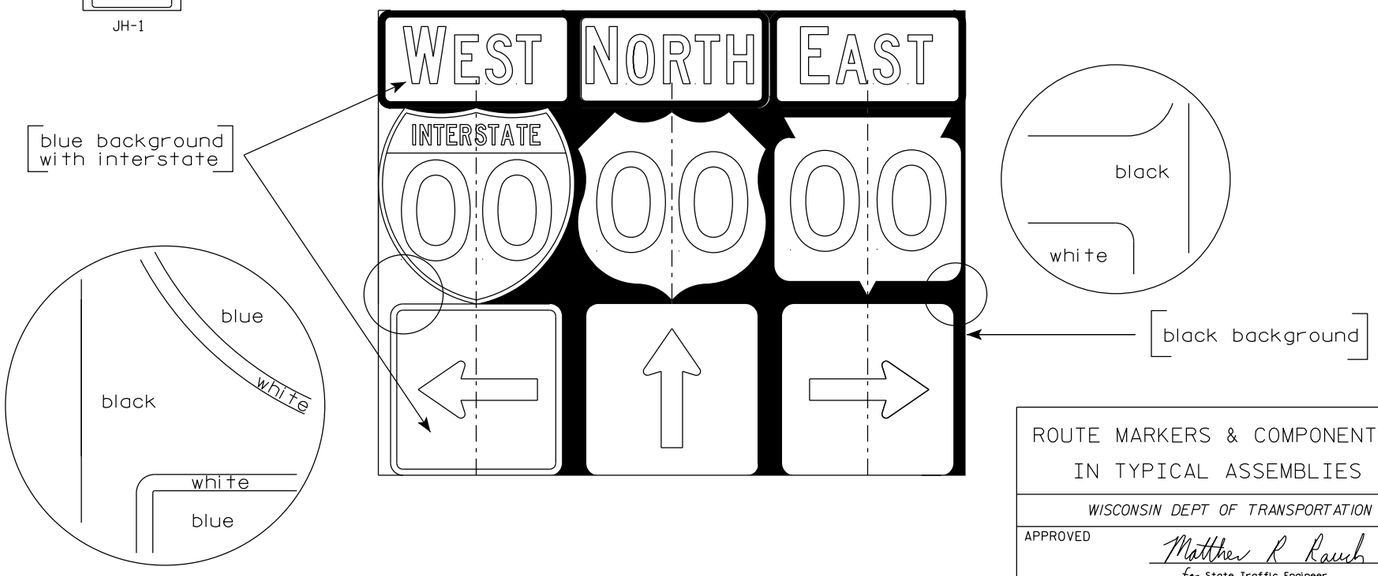


J23-1

JR13-1

JR23-1

JR99-1



NOTES

1. Signs are Type II - Type H Reflective
2. Color:
   Background - Black Non-reflective
   Message - see Note 5
3. Message Series - See Note 5
4. Corners shall be square or rounded if base material is plywood. If base material is metal the corners shall be rounded.
5. The colors and message spacing on each marker shall be according to the applicable route marker panel specifications.
6. 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.
7. 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.
8. 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.
9. Route assemblies that have 36 inch shields and have dimensions greater than 48 inchs (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.
10. All Vertical J Assemblies are given a Sign Code of JV
11. For JV Assemblies that have a mixture of Interstate and non Interstate shields, arrows and cardinals shall be white on blue.

ROUTE MARKERS & COMPONENTS
IN TYPICAL ASSEMBLIES

WISCONSIN DEPT OF TRANSPORTATION

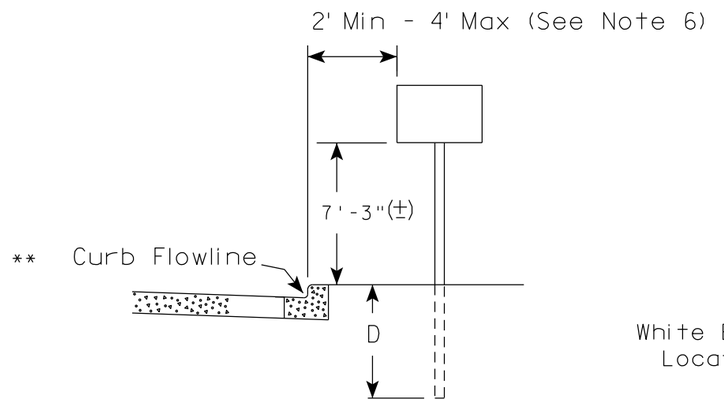
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 3/18/21 PLATE NO. A2-1S.9

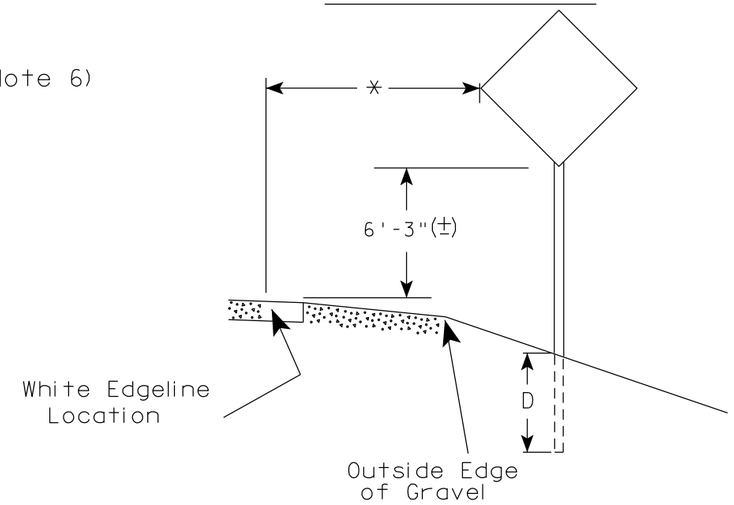
PROJECT NO:

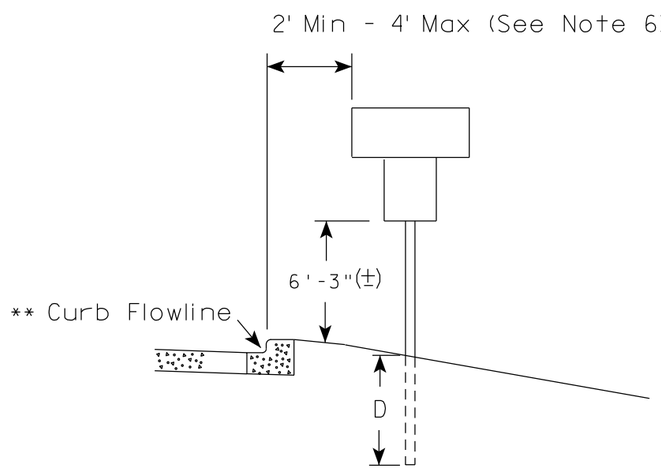
SHEET NO: 148 E

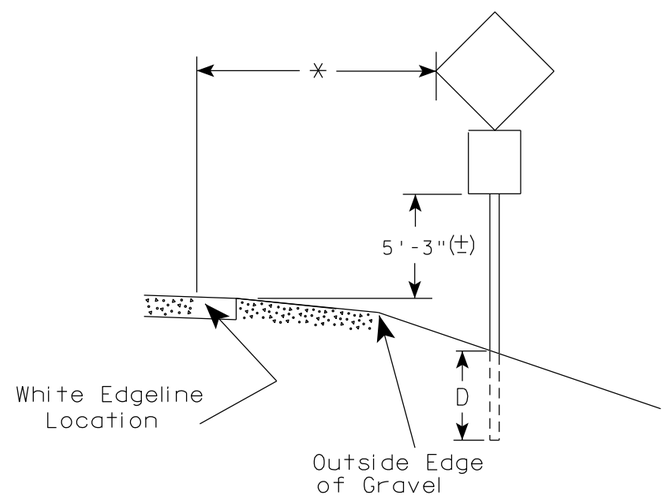
URBAN AREA



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" (±). 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" (±) or 6'-3" (±) depending upon existence of a sub-sign.
4. Minimum mounting height for signs mounted on traffic signal poles is 5'- 3" (±).
5. Offset distance shall be consistent with existing signs or consistent throughout length of project.
6. The (±) tolerance for mounting height is 3 inches.
7. Folding signs shall be mounted at a height of 5'-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

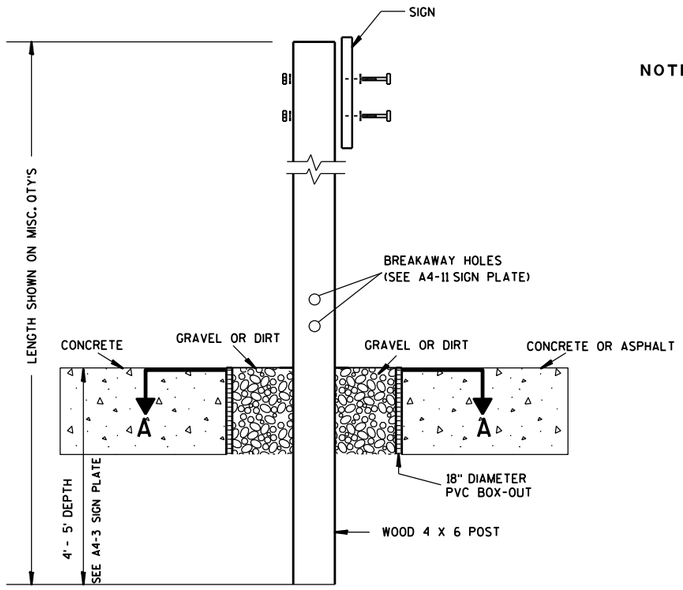
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch for State Traffic Engineer

DATE 5/13/2020 PLATE NO. A4-3.22

7 7

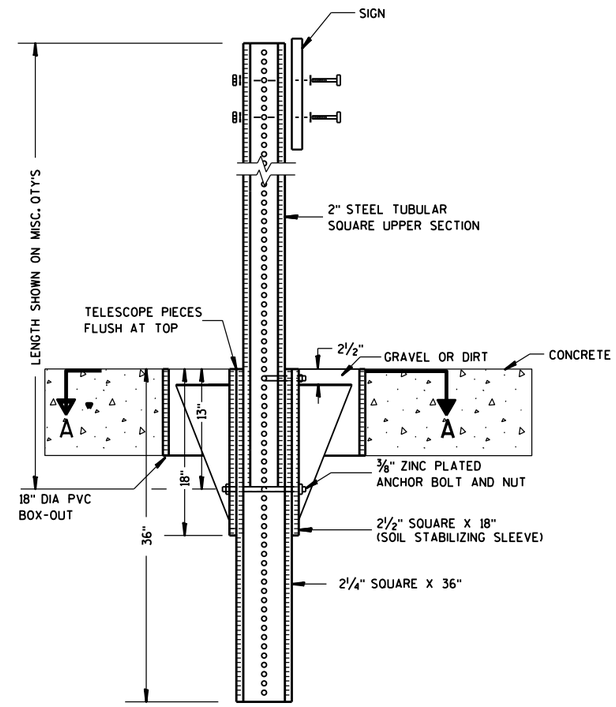
PROJECT NO:	HWY:	COUNTY:		SHEET NO: 149	E



ELEVATION VIEW

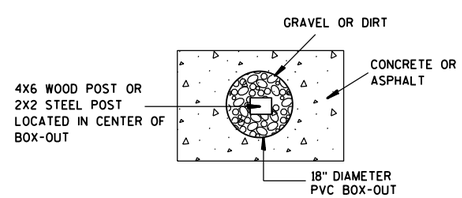
DETAIL OF WOOD 4 X 6 SIGN POST IN BOX-OUT

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

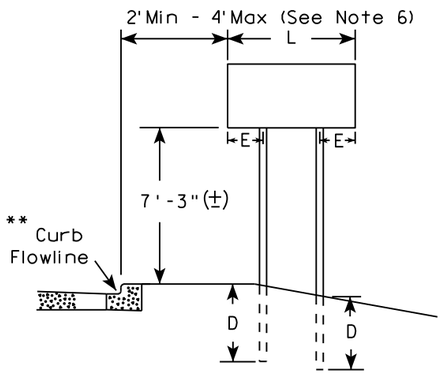
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

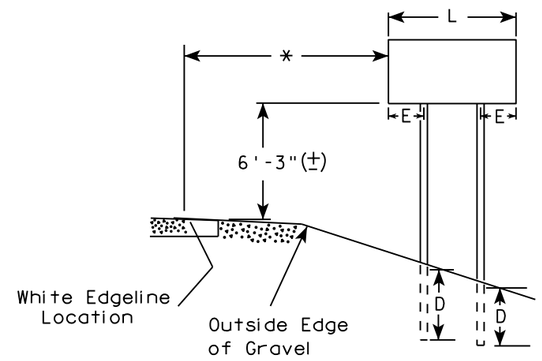
DATE 1/27/14 PLATE NO. A4-3B.1

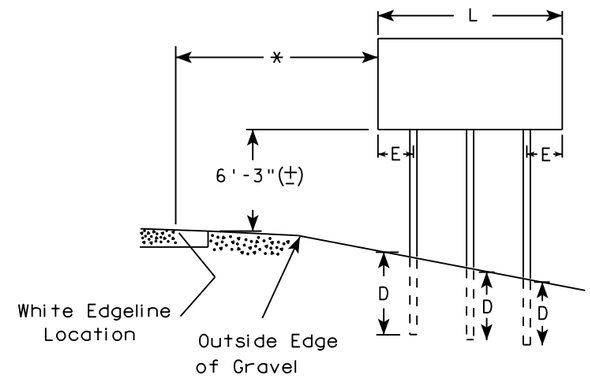
PROJECT NO:	HWY:	COUNTY:		SHEET NO:	E

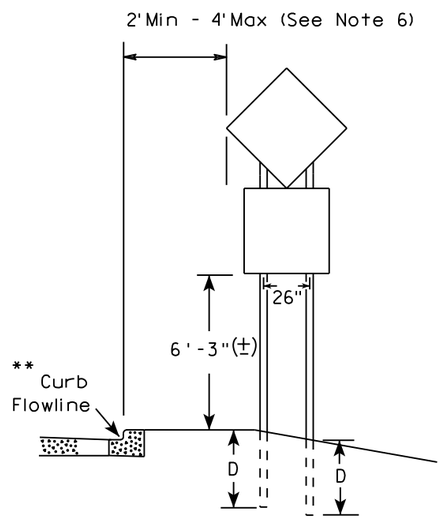
URBAN AREA



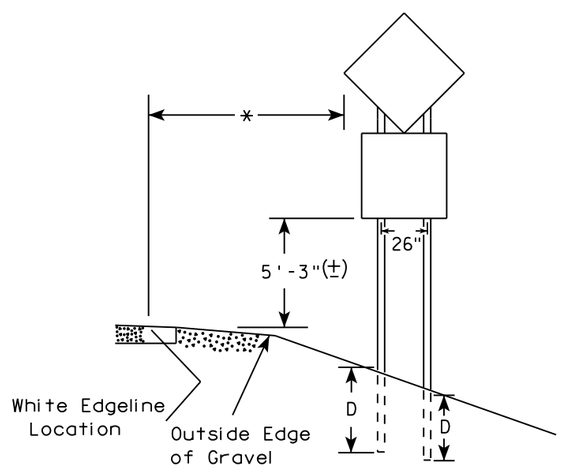
RURAL AREA (See Note 3)







48" DIAMOND WARNING SIGN



48" DIAMOND WARNING SIGN

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"

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" (±) or 6'-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" (±) or as directed by the engineer.
8. The Double Arrow sign (W12-1) shall be mounted at a height of 2'-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" (±).

* 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.

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

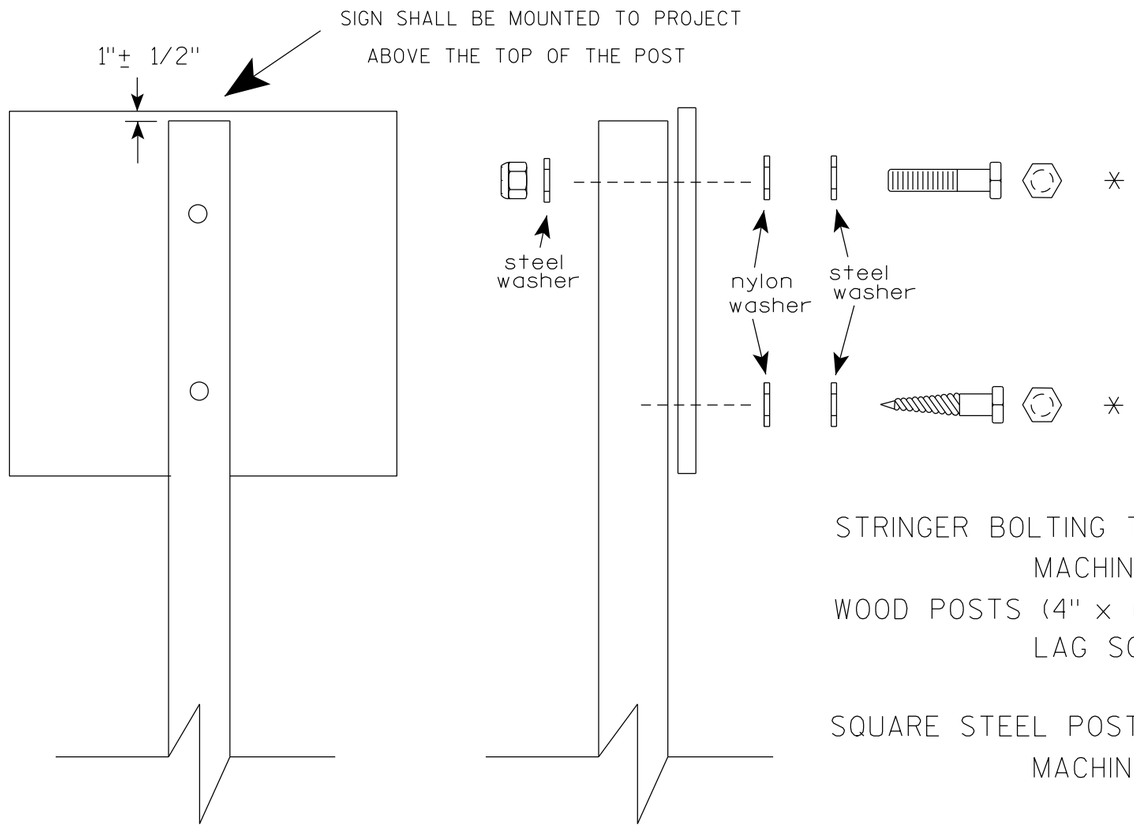
APPROVED Matthew R Rauch
For State Traffic Engineer

DATE 8/21/17 PLATE NO. A4-4.15

7

7

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 151	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.

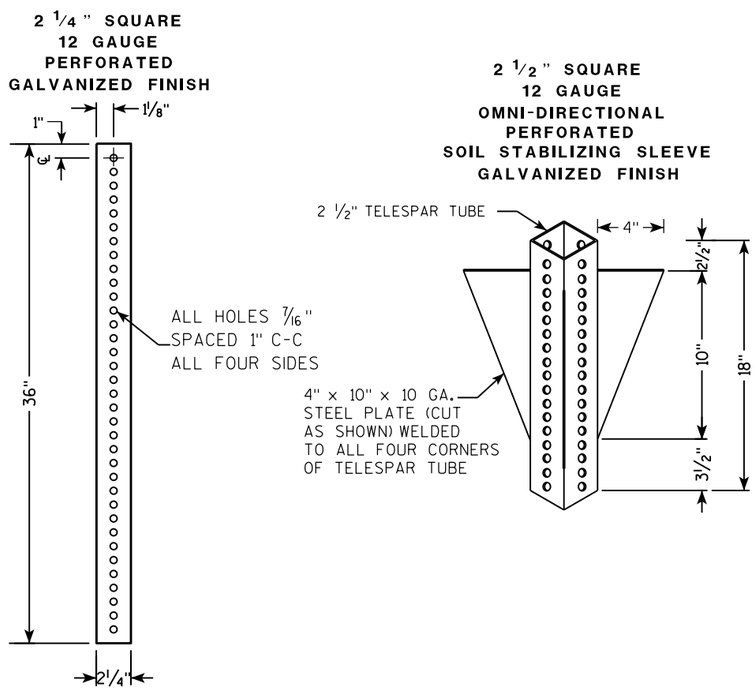
ATTACHMENT OF SIGNS TO POSTS

WISCONSIN DEPT OF TRANSPORTATION

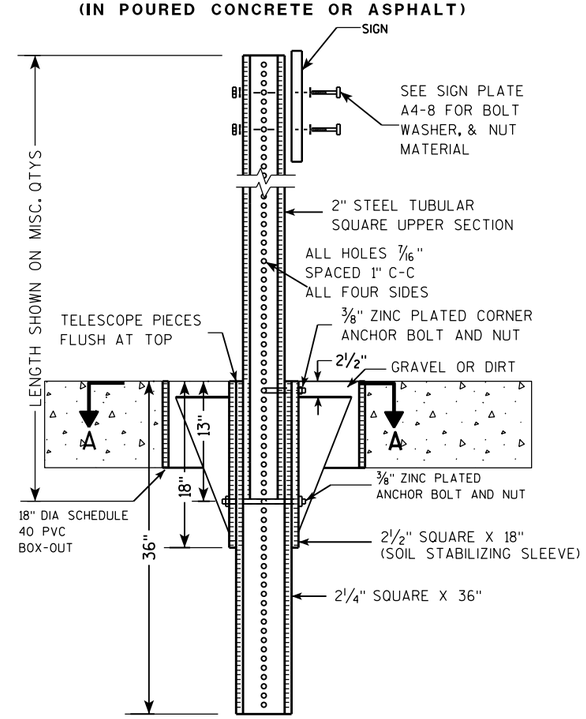
APPROVED Matthew R Rauch
for State Traffic Engineer

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

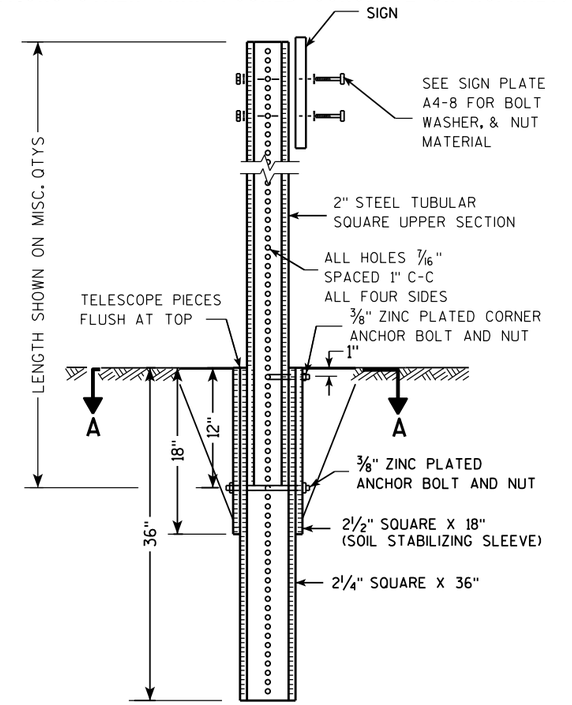
TELESCOPIC TUBING ANCHORS
TWO PIECE SYSTEM

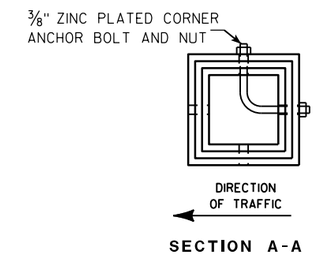


DETAIL OF TUBULAR STEEL SIGN POST
(IN POURED CONCRETE OR ASPHALT)



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

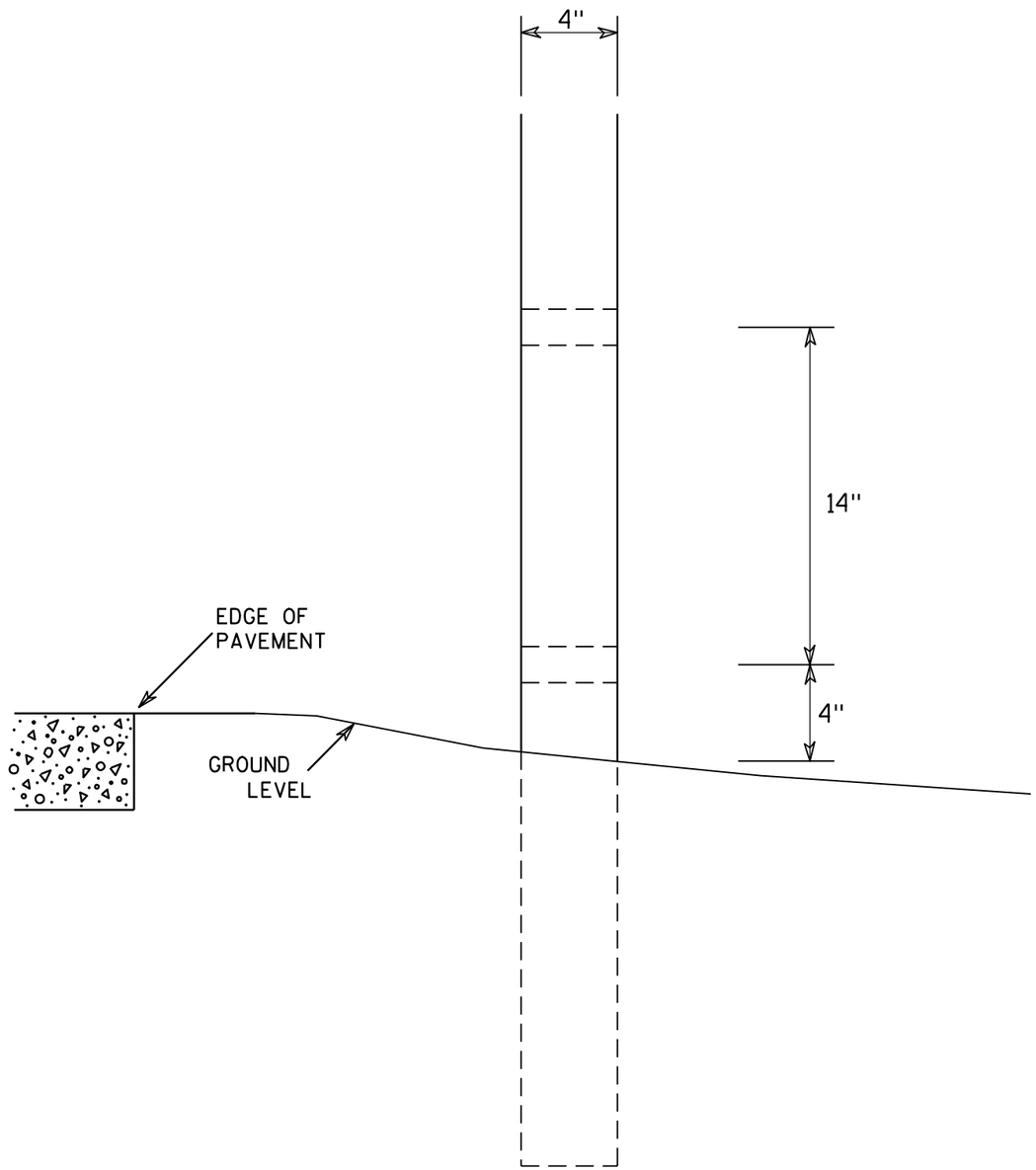
APPROVED Matthew R Rauch
for State Traffic Engineer

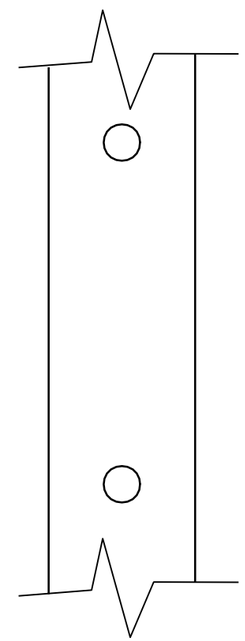
DATE 2/05/15 PLATE A4-9.9

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

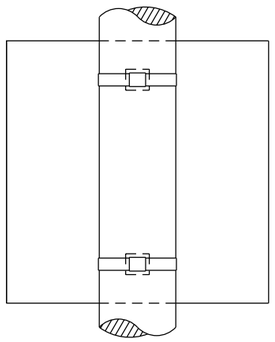
APPROVED Chester J Spang for State Traffic Engineer

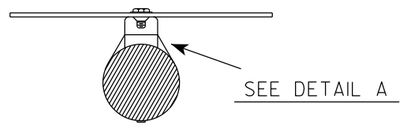
DATE 3/27/97 PLATE NO. A4-11.2

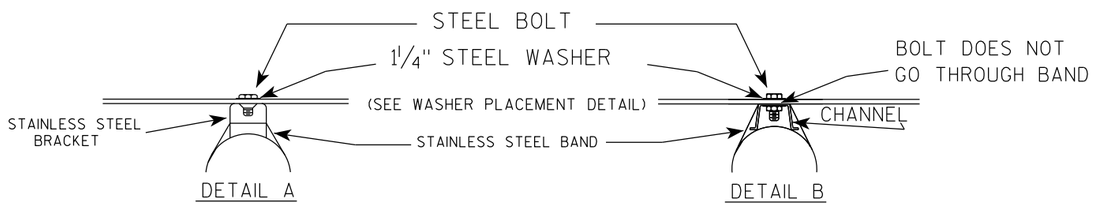
PROJECT NO:	HWY:	COUNTY:		SHEET NO: 154	E

BANDING

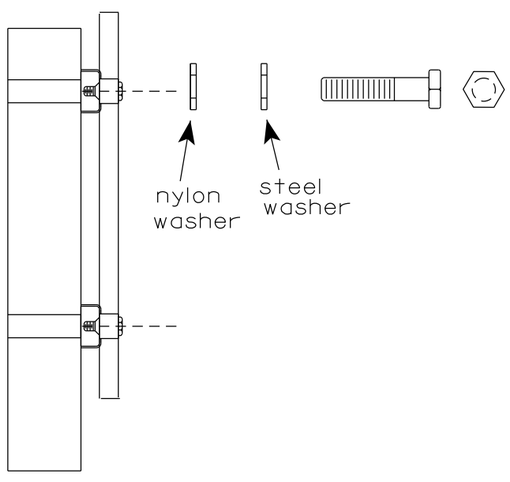
SINGLE SIGN







WASHER PLACEMENT

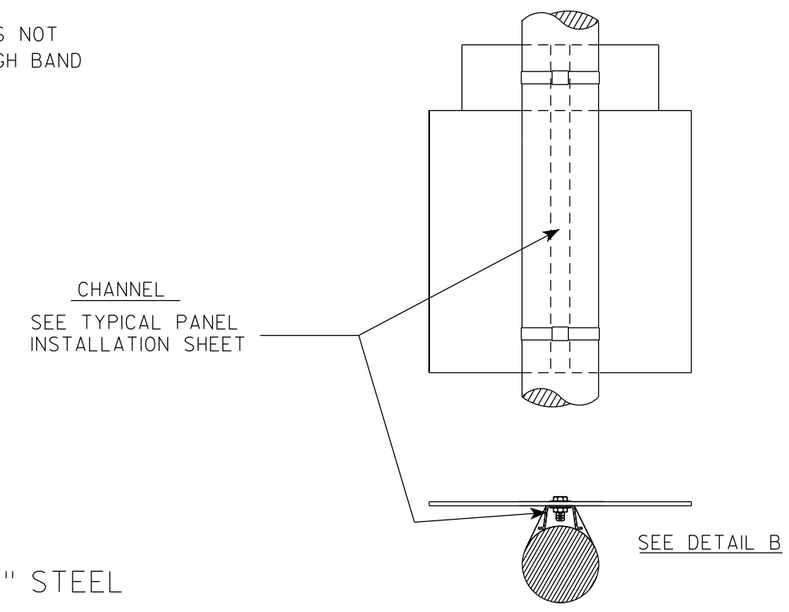


WASHERS (ALL POSTS) -
1-1/4" O.D. X 3/8" I.D. X 1/16" STEEL
1-1/4" O.D. X 3/8" I.D. X .080 NYLON
FOR ALL TYPE H SIGNS

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



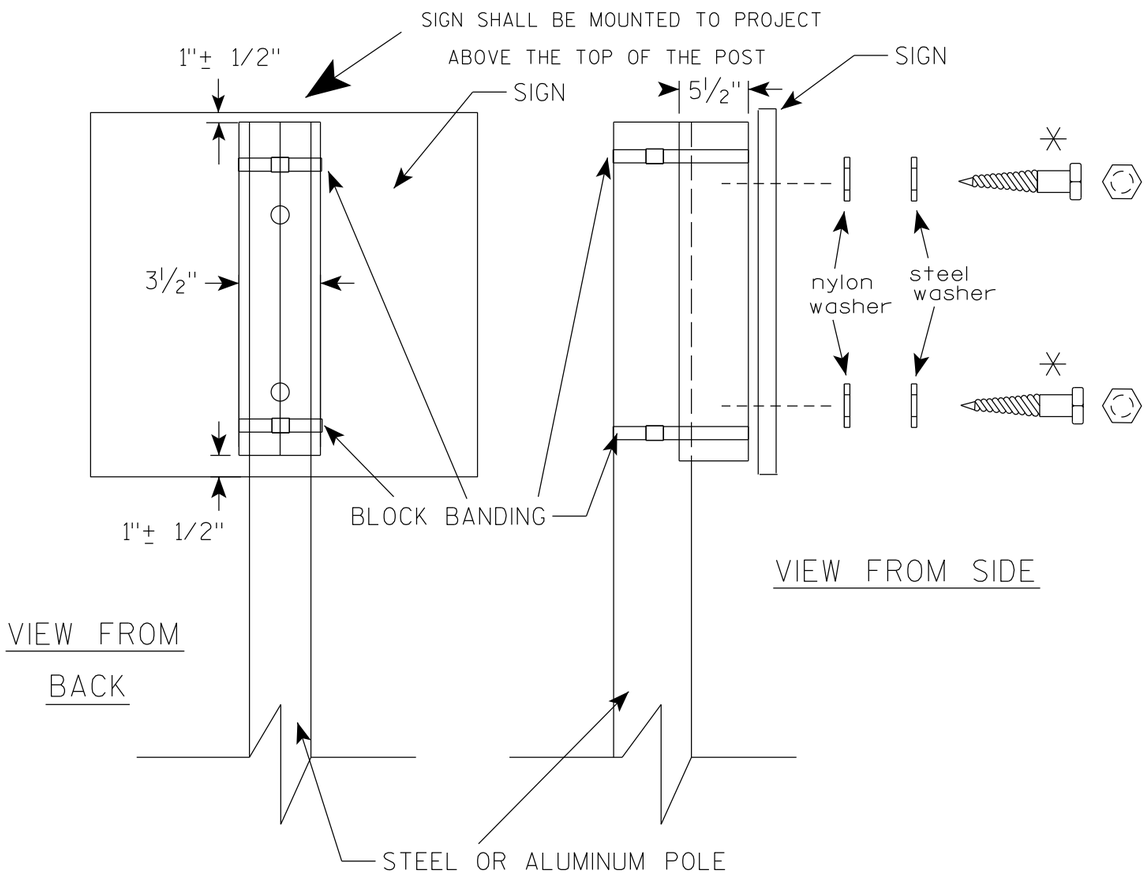
STANDARD SIGN
SIGN BANDING DETAILS

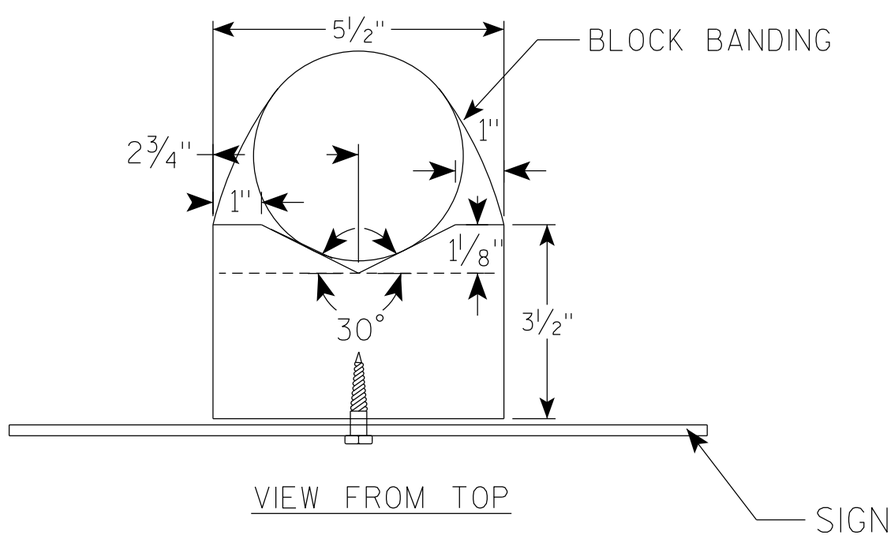
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

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

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 155	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"

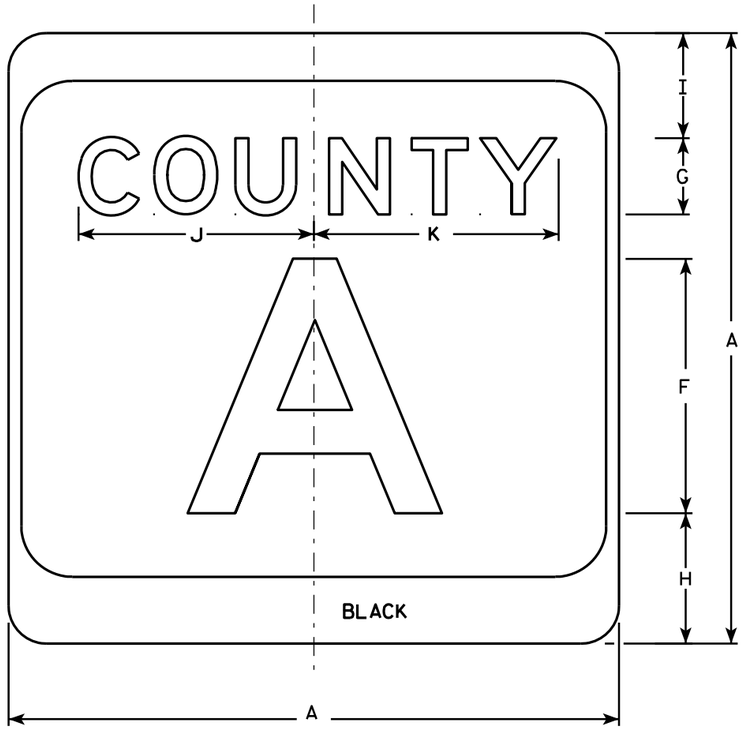
BLOCK BANDING DETAIL
(V-BLOCK OPTION)

WISCONSIN DEPT OF TRANSPORTATION

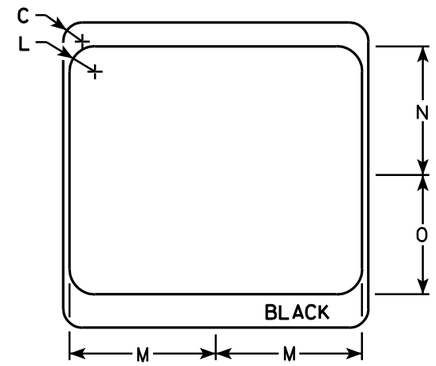
APPROVED Matthew R Rauch
For State Traffic Engineer

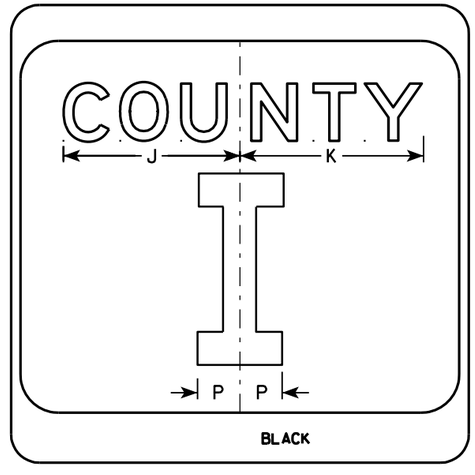
DATE 6/10/19 PLATE NO. A5-10.2

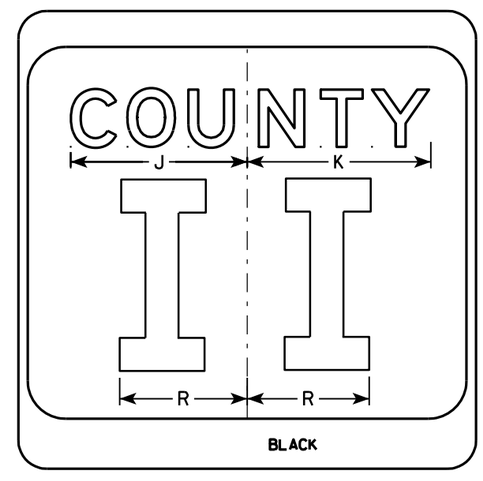
PROJECT NO:				SHEET NO: 156	E



M1-5A







NOTES

1. Sign is Type II - see Note 7 - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - White & Black - See Note 7
   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. 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.
6. Substitute appropriate letters & optically center to achieve proper balance.
7. Permanent Signs
   Background - Type H Reflective
   Detour or temporary Signs
   Background - Reflective

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
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

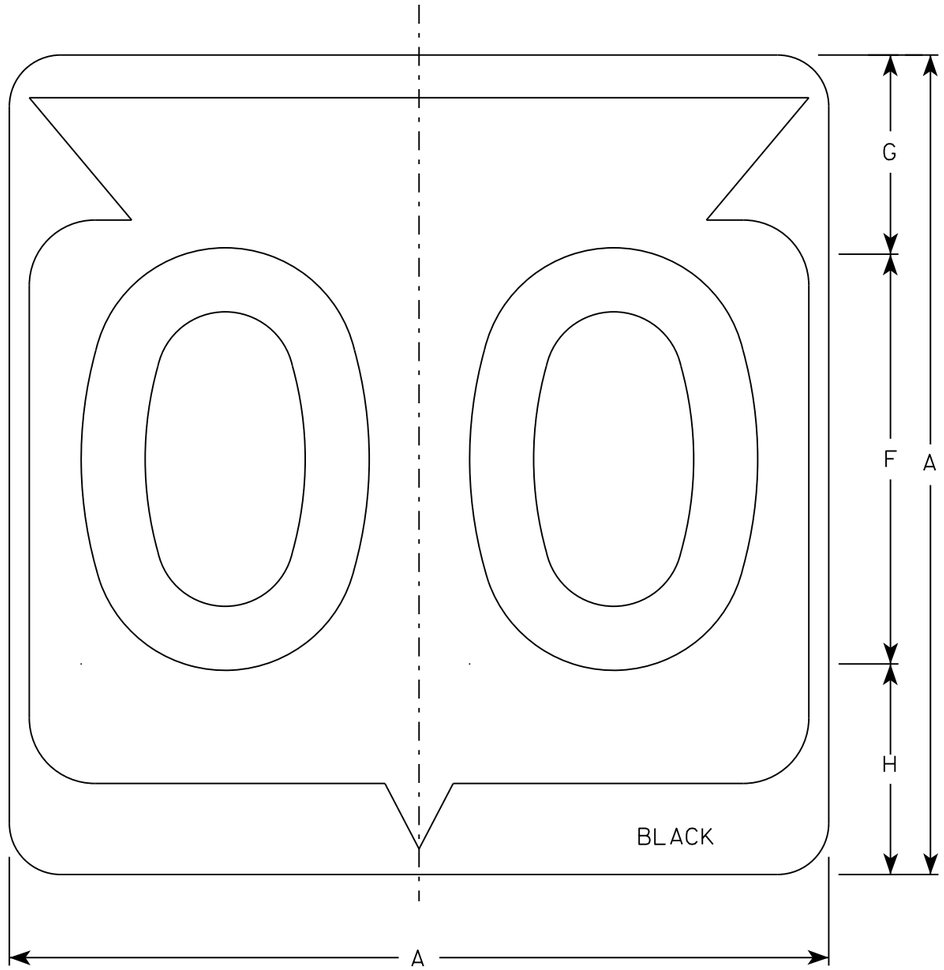
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 9/27/11 PLATE NO. M1-5A.8

7

7

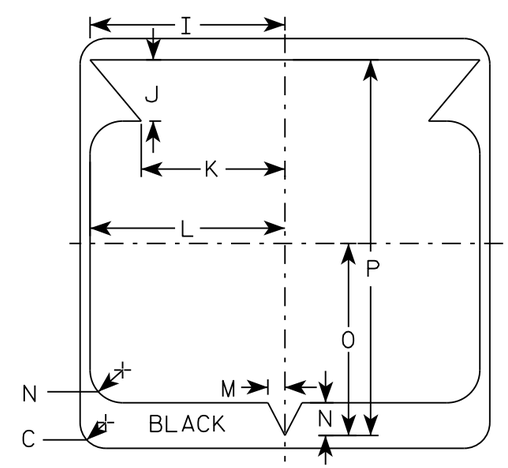
PROJECT NO: | HWY: | COUNTY: | SHEET NO: 157 | E



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
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																											
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
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

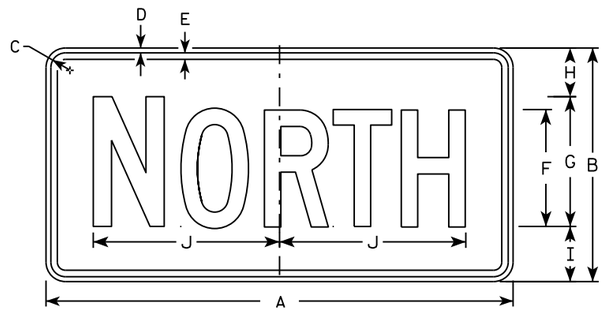
STATE ROUTE MARKER
M1-6 FOR ASSEMBLIES

WISCONSIN DEPT OF TRANSPORTATION

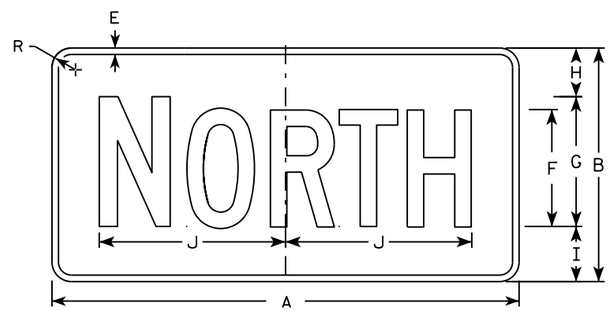
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 3/16/18 PLATE NO. M1-6.10

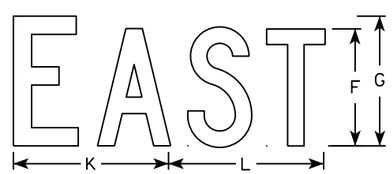
PROJECT NO: | HWY: | COUNTY: | SHEET NO: 158 | E



M3-1
MM3-1
MP3-1

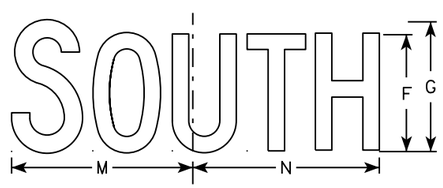


MB3-1
MK3-1
MN3-1

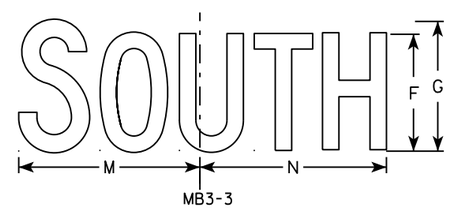


M3-2
MM3-2
MP3-2

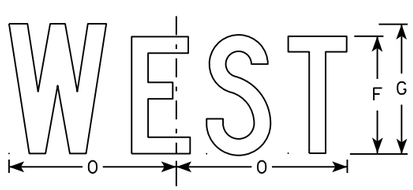
MB3-2
MK3-2
MN3-2



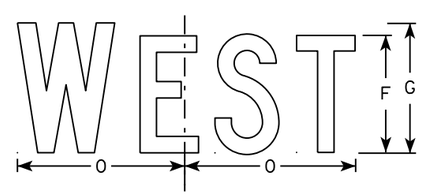
M3-3
MM3-3
MP3-3



MB3-3
MK3-3
MN3-3



M3-4
MM3-4
MP3-4



MB3-4
MK3-4
MN3-4

NOTES

1. All Signs Type II - Type H
2. Color:
   Background - See note 5
   Message - See note 5
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.
5. 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
6. 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																											
2	24	12	1 1/8	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			1 1/2									2.00
3	36	18	1 1/8	3/8	1/2	9	10	3 3/4	4 1/4	14 3/8	12	12 1/8	14	14 1/8	13			1 1/2									4.5
4	36	18	1 1/8	3/8	1/2	9	10	3 3/4	4 1/4	14 3/8	12	12 1/8	14	14 1/8	13			1 1/2									4.5
5	36	18	1 1/8	3/8	1/2	9	10	3 3/4	4 1/4	14 3/8	12	12 1/8	14	14 1/8	13			1 1/2									4.5

STANDARD SIGNS
M3-1 thur M3-4
SERIES

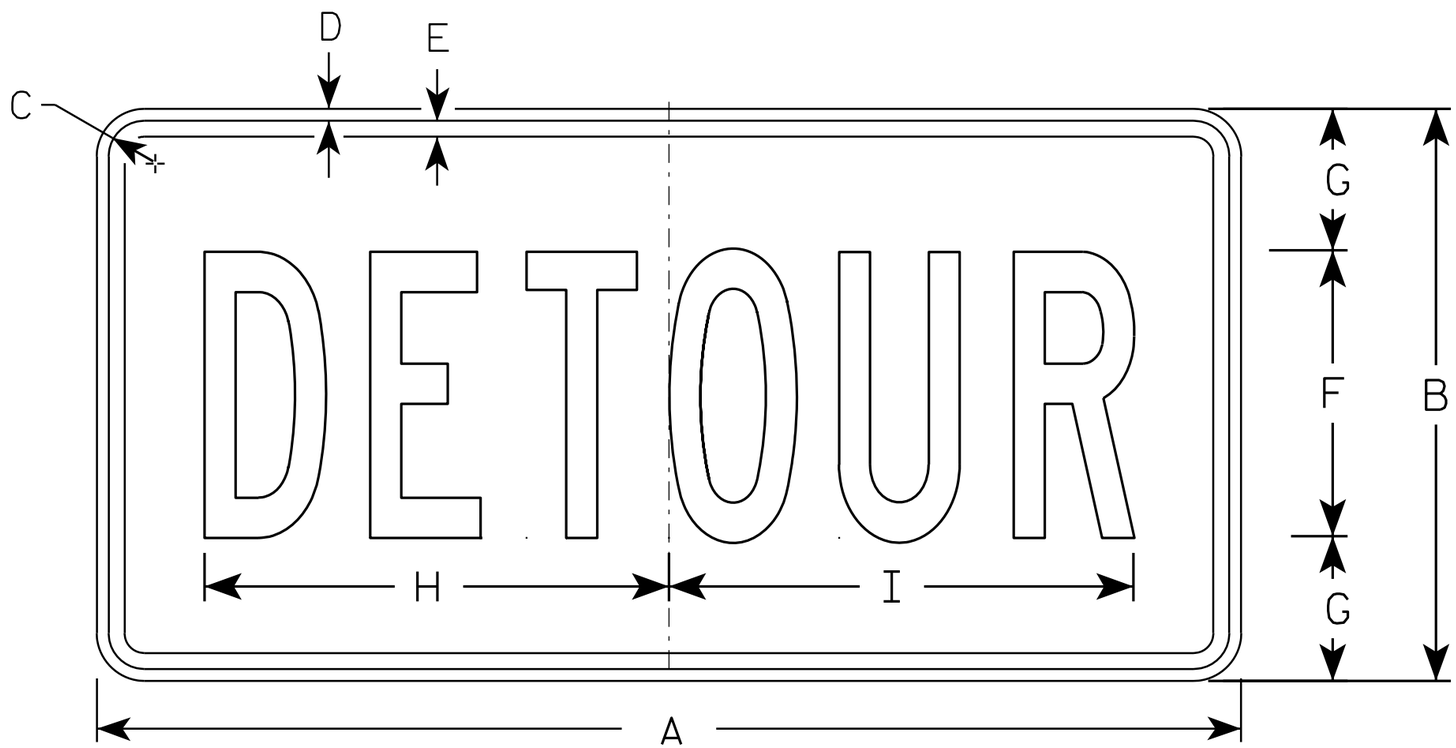
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 10/15/15 PLATE NO M3-1.14

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

FILE NAME : C:\CAEfiles\Projects\tr_stdplate\M31.DGN PLOT DATE : 01-DEC-2015 17:54 PLOT BY : $$ plotuser $$ PLOT NAME : PLOT SCALE : 11.675051:1.000000



M4-8

NOTES

1. Sign is Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Orange
   Message - Black
3. Message Series - B
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																											
2	24	12	1 1/8	3/8	3/8	6	3	10	10 1/4																		2.0
3	36	18	1 1/8	3/8	1/2	9	4 1/2	14 5/8	14 1/2																		4.5
4																											
5																											

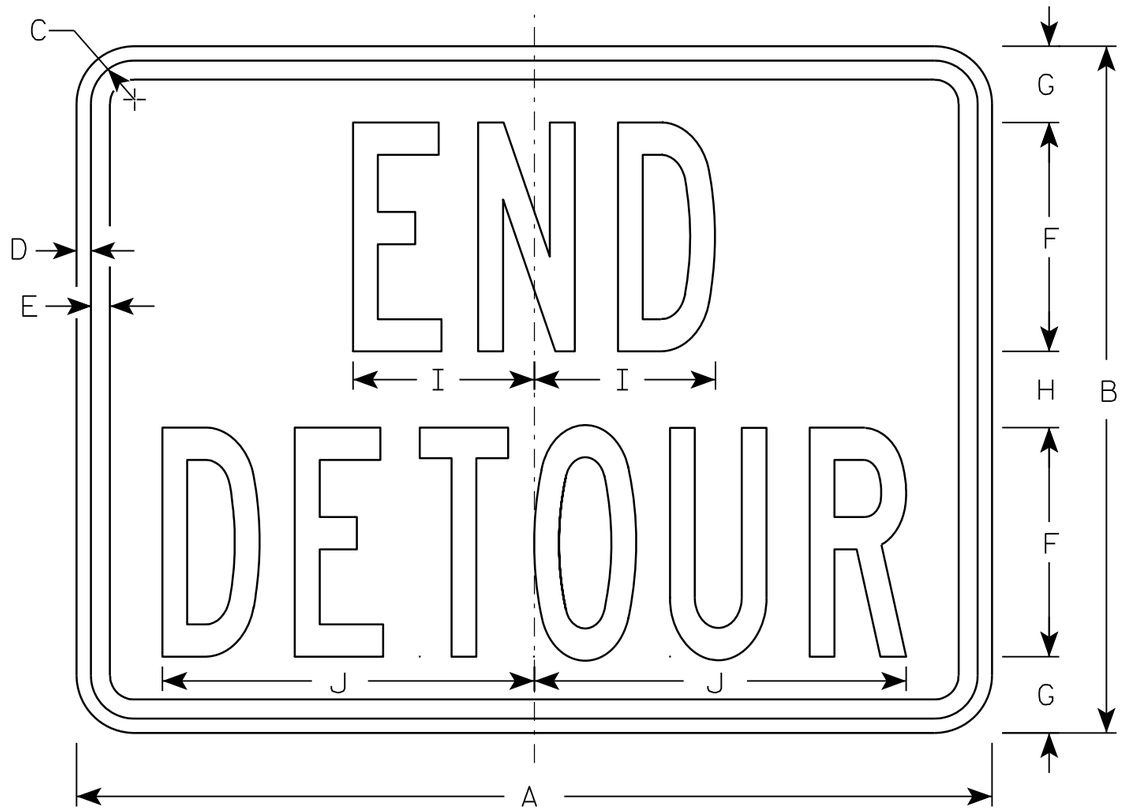
STANDARD SIGN
M4-8

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 11/10/10 PLATE NO. M4-8.2

PROJECT NO: | HWY: | COUNTY: | SHEET NO: 160 | E



M4-8A

NOTES

1. Sign is Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Orange
   Message - Black
3. Message Series - B
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																											
2	24	18	1 1/8	3/8	1/2	6	2	2	4 3/4	9 3/4																	3.0
3	30	24	1 1/8	3/8	1/2	8	2 1/2	3	6 3/4	13																	5.0
4																											
5																											

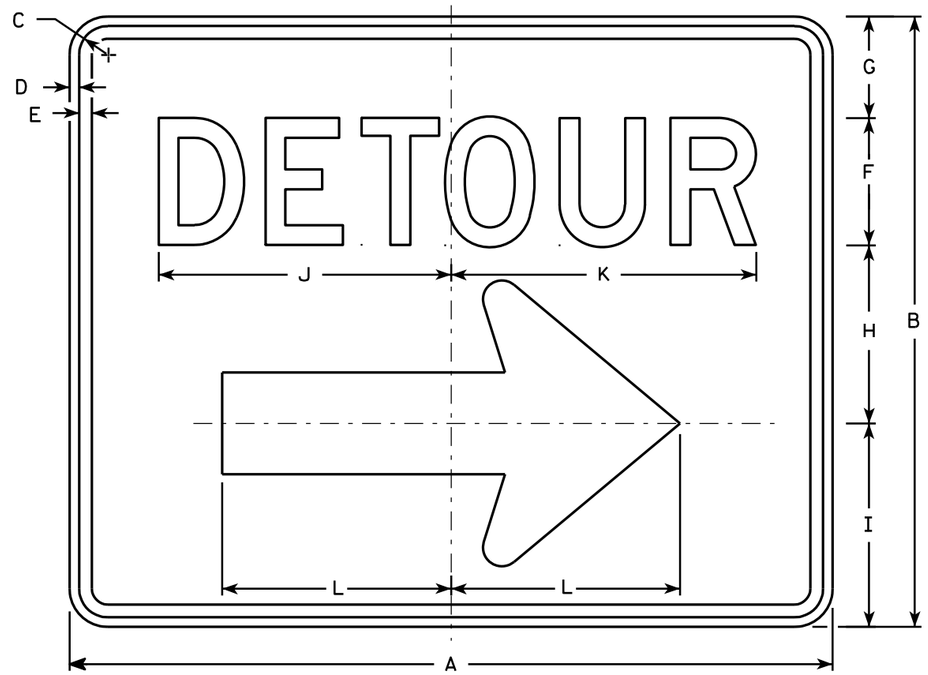
STANDARD SIGN
M4-8A

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 3/9/11 PLATE NO. M4-8A.2

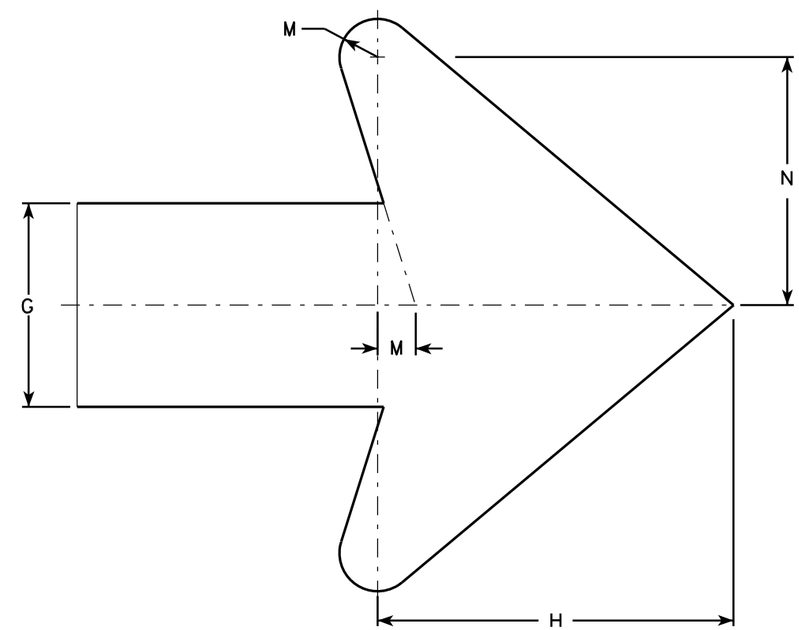
PROJECT NO: | HWY: | COUNTY: | SHEET NO: 161 | E



M4-9R

NOTES

1. Sign is Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
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. M4-9L is the same as M4-9R except the arrow is reversed.



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																											
2	30	24	1 1/8	3/8	1/2	5	4	7	8	11 1/2	12	9	3/4	4 7/8													5.00
3	30	24	1 1/8	3/8	1/2	5	4	7	8	11 1/2	12	9	3/4	4 7/8													5.00
4	48	36	1 3/8	1/2	5/8	8	6	10 1/2	11 5/8	20 5/8	20 1/2	13 1/4	1 1/8	6 7/8													12.0
5	48	36	1 3/8	1/2	5/8	8	6	10 1/2	11 5/8	20 5/8	20 1/2	13 1/4	1 1/8	6 7/8													12.0

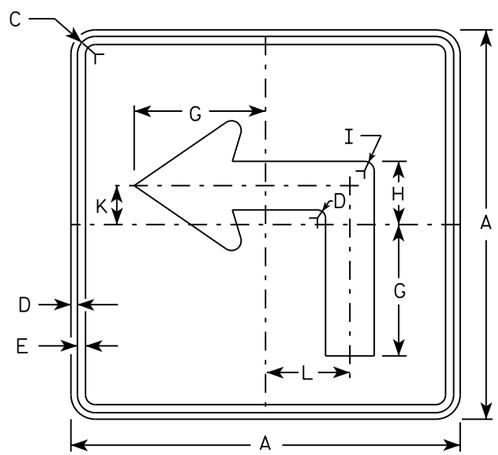
STANDARD SIGN
M4-9 R & L

WISCONSIN DEPT OF TRANSPORTATION

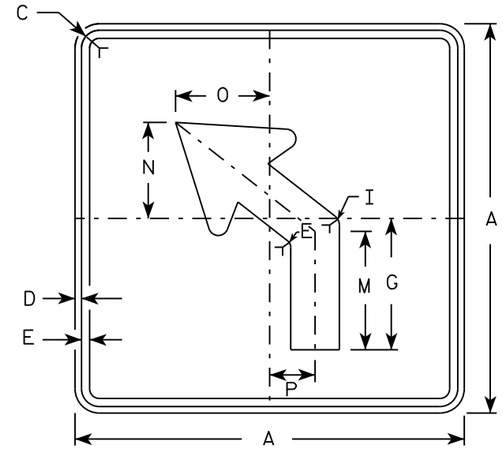
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 3/9/11 PLATE NO. M4-9R.4

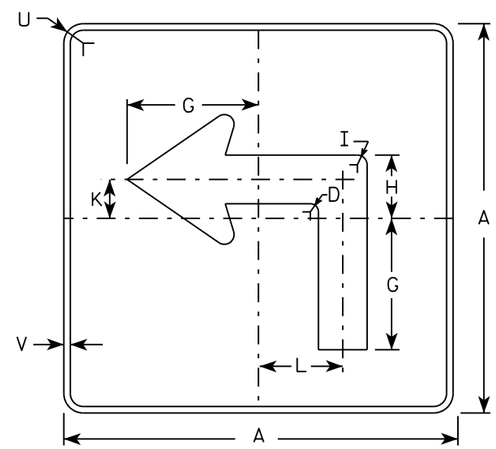
PROJECT NO: | HWY: | COUNTY: | SHEET NO: 162 | E



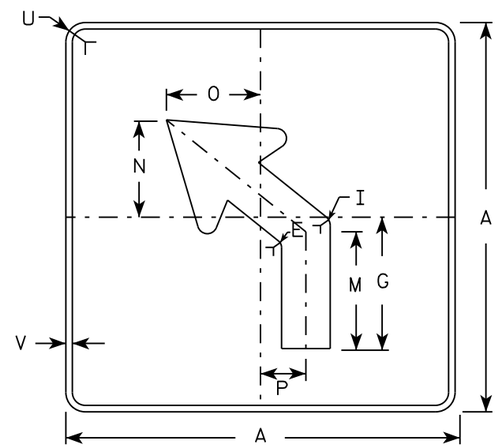
M5-1L
MM5-1L
MO5-1L
MP5-1L



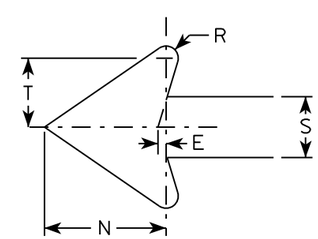
M5-2L
MM5-2L
MO5-2L
MP5-2L



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 - Type H Reflective
   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.

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	21		1 1/8	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 1/2	1/2					3.06
3	30		1 3/8	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 7/8	1/2					6.25
4	30		1 3/8	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 7/8	1/2					6.25
5	30		1 3/8	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 7/8	1/2					6.25

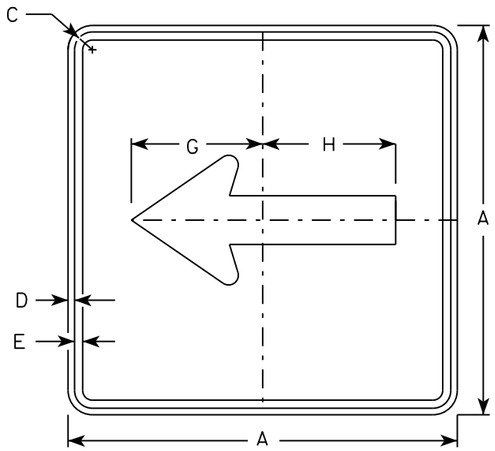
STANDARD SIGN
M5-1 & M5-2

WISCONSIN DEPT OF TRANSPORTATION

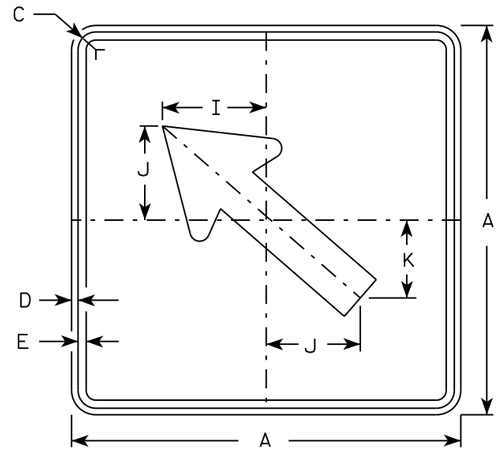
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 10/15/15 PLATE NO. M5-1.13

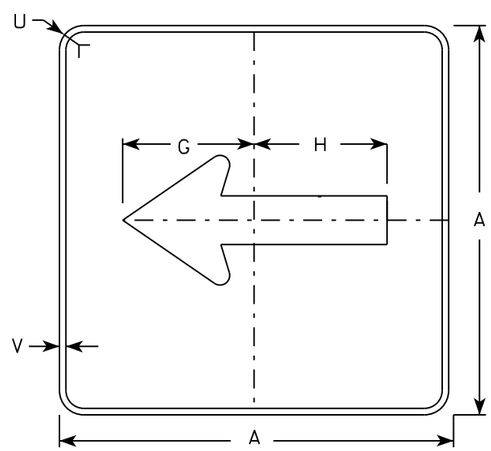
PROJECT NO: | HWY: | COUNTY: | SHEET NO: E



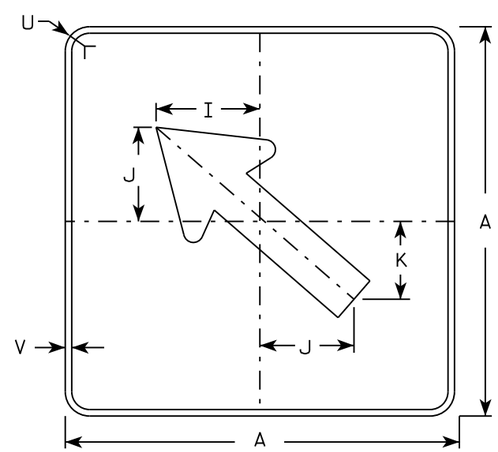
M6-1
MM6-1
MO6-1
MP6-1



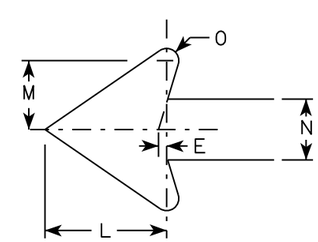
M6-2
MM6-2
MO6-2
MP6-2



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



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



NOTES

1. Signs are Type II - Type H 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

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	21		1 1/8	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 1/2	1/2					3.06
3	30		1 3/8	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 7/8	1/2					6.25
4	30		1 3/8	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 7/8	1/2					6.25
5	30		1 3/8	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 7/8	1/2					6.25

STANDARD SIGN
M6-1 & M6-2
SERIES

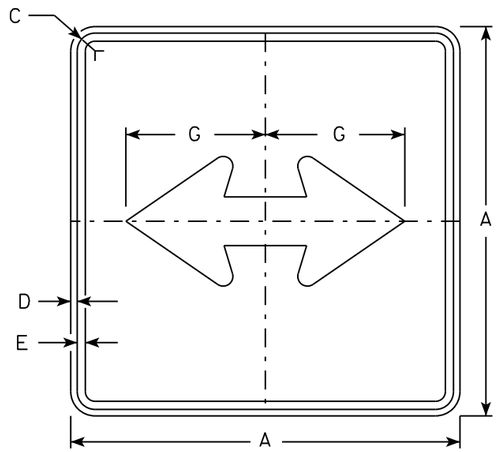
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

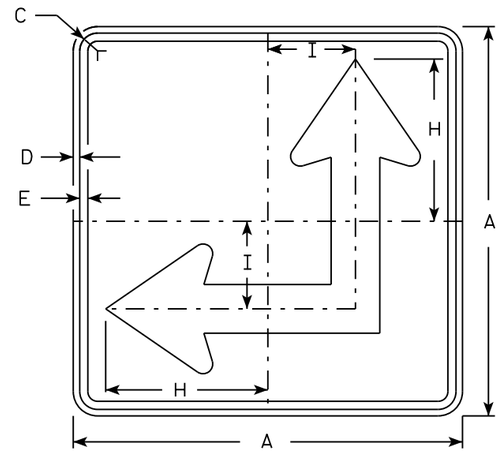
DATE 10/15/15 PLATE 164 M6-1.15

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

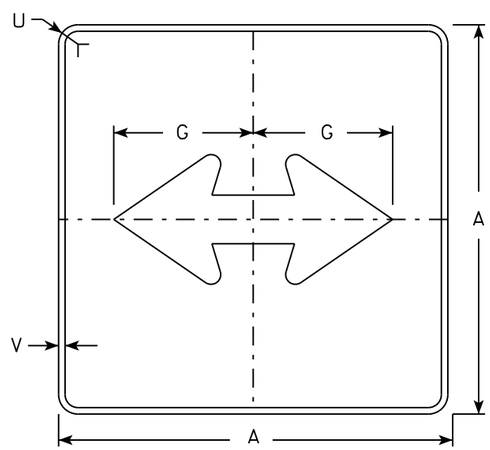
FILE NAME : C:\CAEfiles\Projects\tr stdplate\M61.DGN PLOT DATE : 01-DEC-2015 17:57 PLOT BY : $$ plotuser $$ PLOT NAME : PLOT SCALE : 11.675051:1.000000



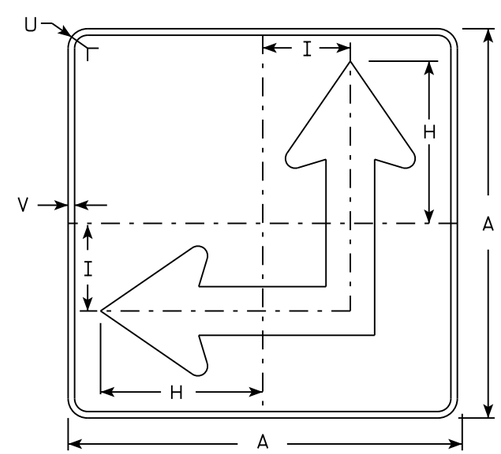
M6-4
MM6-4
MO6-4
MP6-4



M6-6
MM6-6
MO6-6
MP6-6



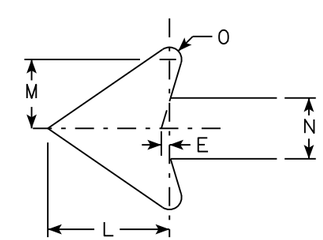
MB6-4
MK6-4
MN6-4
MR6-4



MB6-6
MK6-6
MN6-6
MR6-6

NOTES

1. Signs are Type II - Type H 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. M6-4 and M6-6 Background - White
   Message - Black
   MB6-4 and MB6-6 Background - Blue
   Message - White
   MK6-4 and MK6-6 Background - Green
   Message - White
   MM6-4 and MM6-6 Background - White
   Message - Green
   MN6-4 and MN6-6 Background - Brown
   Message - White
   MO6-4 and MO6-6 Background - Orange - Type F Reflective
   Message - Black
   MP6-4 and MP6-6 Background - White
   Message - Blue
   MR6-4 and MR6-6 Background - Brown
   Message - Yellow
5. M6-6R same as M6-6L except arrow points ahead and 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																											
2	21		1 1/8	3/8	3/8		7 1/2	8 3/4	4 1/4			5 1/4	3	2 5/8	1/2						1 1/2	1/2					3.06
3	30		1 3/8	1/2	5/8		10 3/4	12 1/2	6 3/4			7 1/2	4 1/4	3 3/4	3/4						1 7/8	1/2					6.25
4	30		1 3/8	1/2	5/8		10 3/4	12 1/2	6 3/4			7 1/2	4 1/4	3 3/4	3/4						1 7/8	1/2					6.25
5	30		1 3/8	1/2	5/8		10 3/4	12 1/2	6 3/4			7 1/2	4 1/4	3 3/4	3/4						1 7/8	1/2					6.25

STANDARD SIGN
M6-4 & M6-6
SERIES

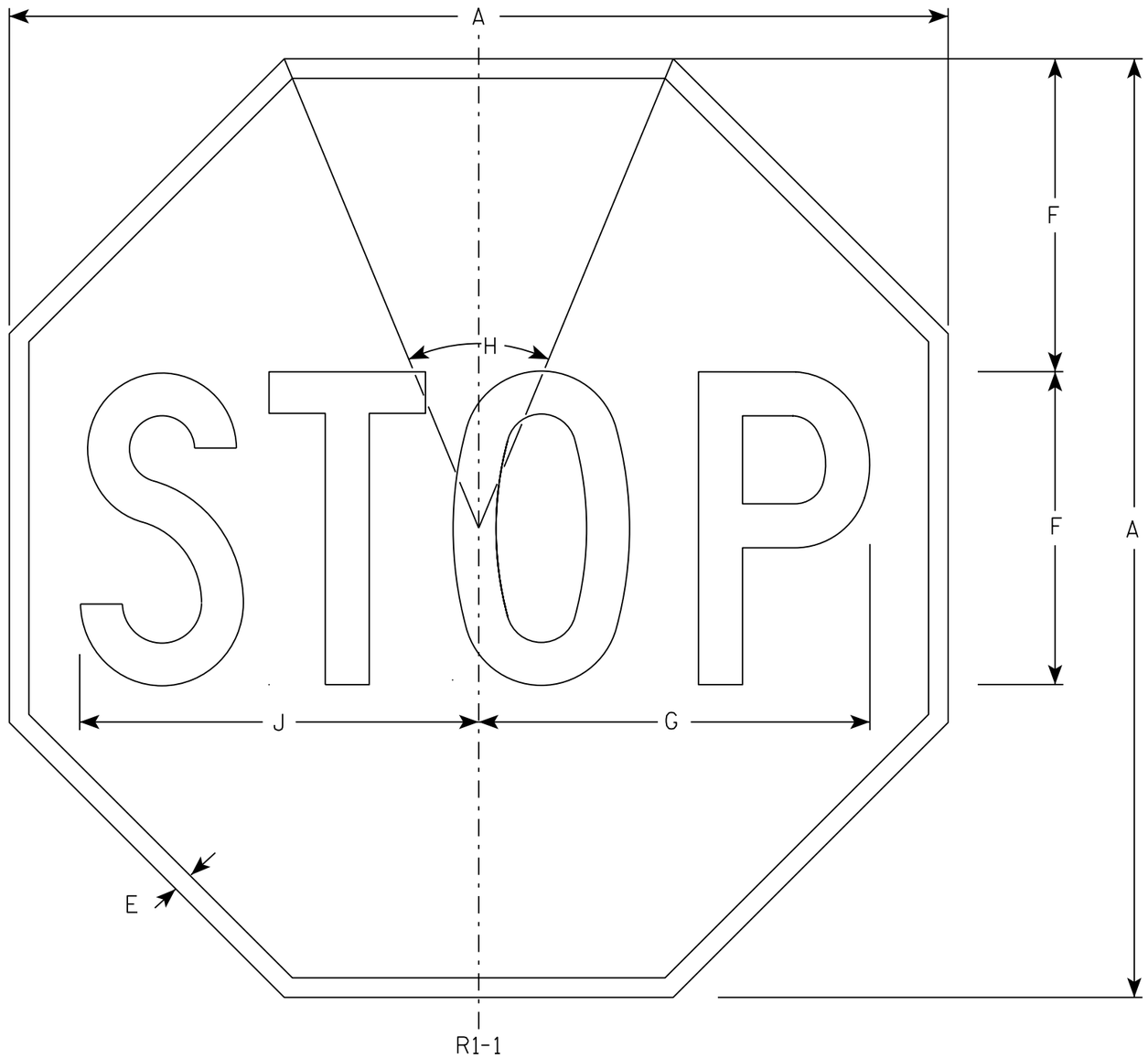
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 10/15/15 PLATE 165 M6-4.10

PROJECT NO: HWY: COUNTY: SHEET NO: E

FILE NAME : C:\CAEfiles\Projects\tr_stdplate\M64.DGN PLOT DATE : 01-DEC-2015 17:58 PLOT BY : $$ plotuser $$ PLOT NAME : PLOT SCALE : 11.675051:1.000000



NOTES

1. Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Red
   Message - White
3. Message 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	30				5/8	10	12 1/2	45°		12 3/4																	5.18
2S	30				5/8	10	12 1/2	45°		12 3/4																	5.18
2M	36				3/4	12	15	45°		15 3/8																	7.46
3	36				3/4	12	15	45°		15 3/8																	7.46
4	48				1	16	20	45°		20 1/2																	13.25
5	48				1	16	20	45°		20 1/2																	13.25
6	18				3/8	6	7 3/4	45°		7 3/4																	1.86
7	12				1/4	4	5	45°		5 1/8																	0.78

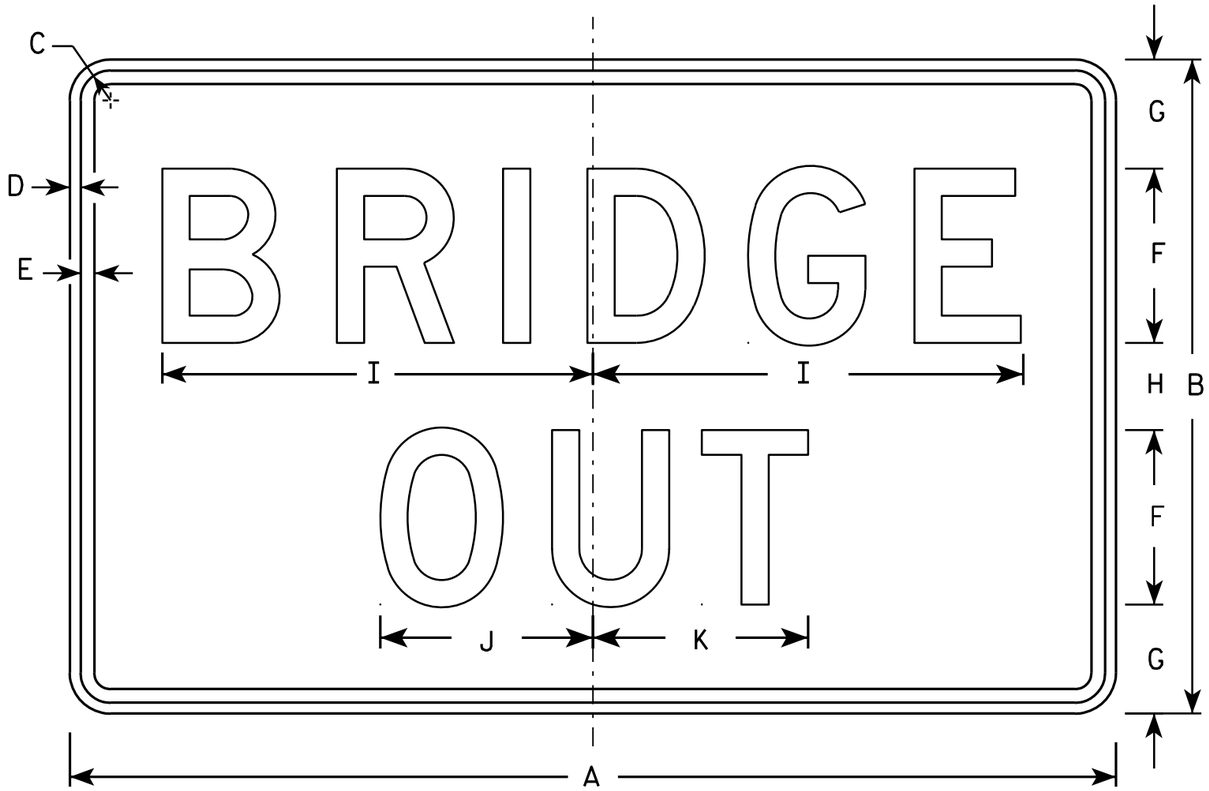
STANDARD SIGN
R1-1

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 11/12/15 PLATE NO. R1-1.13

PROJECT NO: | HWY: | COUNTY: | SHEET NO: 166 | E



R11-2B

NOTES

1. Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
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.

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 3/8	1/2	5/8	8	5	4	19 3/4	9 3/4	9 7/8																10.0
2M	48	30	1 3/8	1/2	5/8	8	5	4	19 3/4	9 3/4	9 7/8																10.0
3	48	30	1 3/8	1/2	5/8	8	5	4	19 3/4	9 3/4	9 7/8																10.0
4	48	30	1 3/8	1/2	5/8	8	5	4	19 3/4	9 3/4	9 7/8																10.0
5	48	30	1 3/8	1/2	5/8	8	5	4	19 3/4	9 3/4	9 7/8																10.0

STANDARD SIGN
R11-2B

WISCONSIN DEPT OF TRANSPORTATION

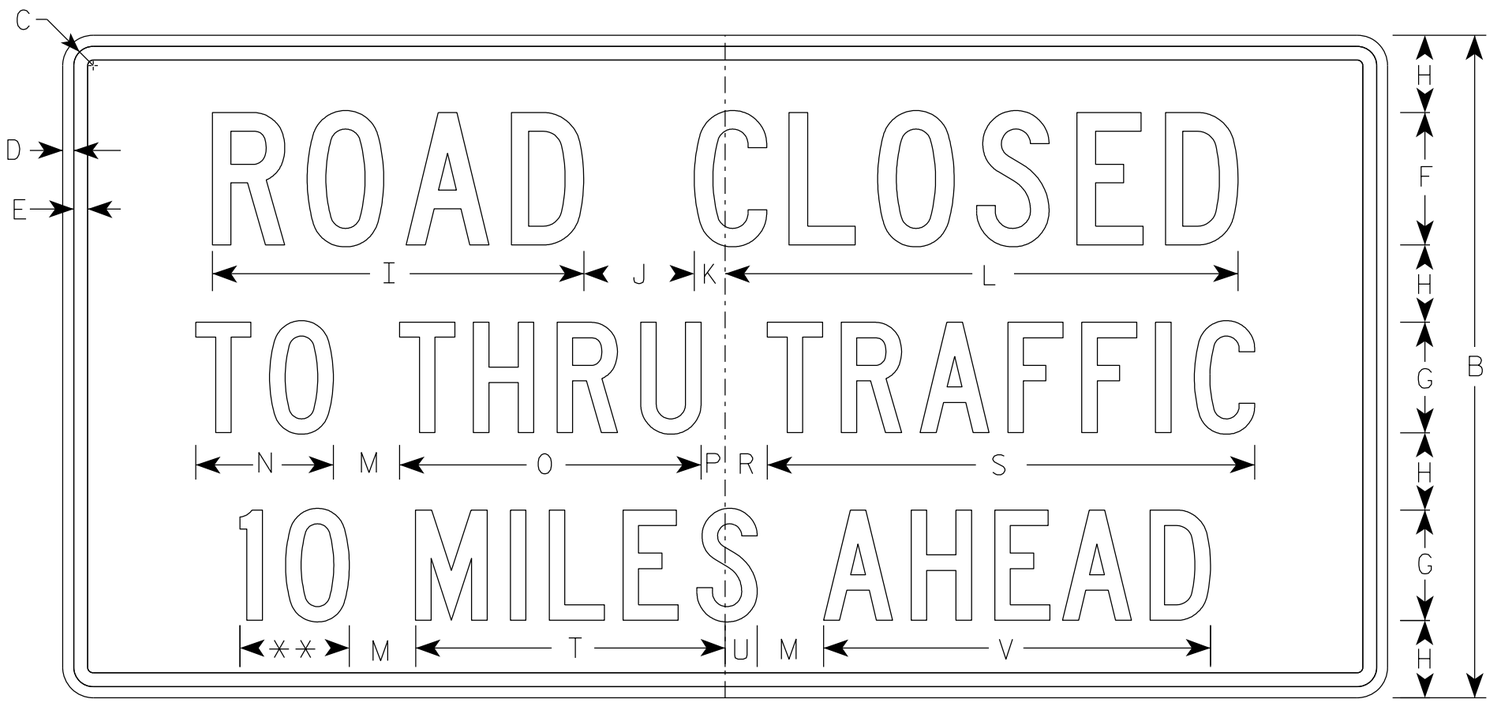
APPROVED Matthew R Rauch
For State Traffic Engineer
DATE 4/1/11 PLATE NO. R11-2B.2

PROJECT NO:

SHEET NO: 167 E

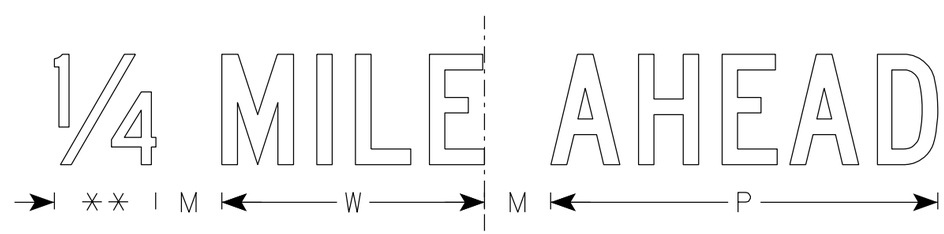
NOTES

1. Sign is Type II - Type H Reflective
2. Color:
   Background - White
   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.
5. Substitute appropriate numerals to nearest quarter mile and optically adjust spacing to achieve proper balance.



R11-3

** See Note 5



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 1/4	3/8	3/8	4	3	2	11 1/4	3	1 1/8	15 3/8	2	3 3/4	8 1/4	5/8		1 3/8	13 1/4	8 3/8	7/8	10 1/2	7 1/8				4.5
2S	60	30	1 3/8	1/2	5/8	6	5	3 1/2	16 7/8	5	1 3/8	23 1/4	3	6 1/4	13 5/8	1 1/8		1 7/8	22 1/8	14	1 1/2	17 1/2	11 7/8				12.5
2M	60	30	1 3/8	1/2	5/8	6	5	3 1/2	16 7/8	5	1 3/8	23 1/4	3	6 1/4	13 5/8	1 1/8		1 7/8	22 1/8	14	1 1/2	17 1/2	11 7/8				12.5
3																											
4																											
5																											

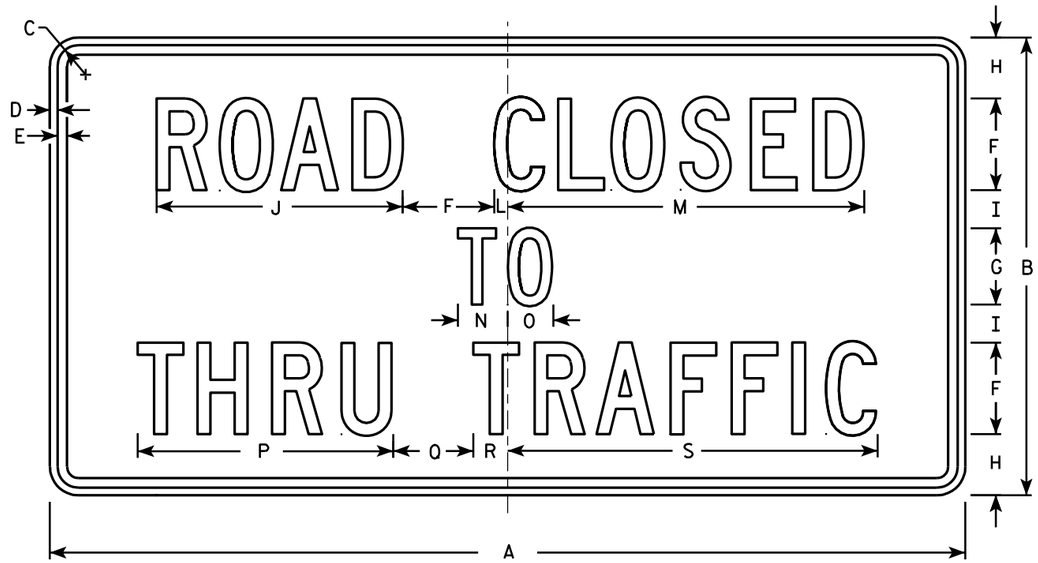
STANDARD SIGN
R11-3

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 6/14/2021 PLATE NO. R11-3.9

PROJECT NO: | HWY: | COUNTY: | SHEET NO: 168 | E



R11-4

NOTES

1. Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - White
   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																											
2S	60	30	1 3/8	1/2	5/8	6	5	4	2 1/2	16 1/8		7/8	23 3/8	3 1/4	3	16 3/4	5 1/4	2 1/4	24 1/4								12.5
2M	60	30	1 3/8	1/2	5/8	6	5	4	2 1/2	16 1/8		7/8	23 3/8	3 1/4	3	16 3/4	5 1/4	2 1/4	24 1/4								12.5
3																											
4																											
5																											

STANDARD SIGN
R11 - 4

WISCONSIN DEPT OF TRANSPORTATION

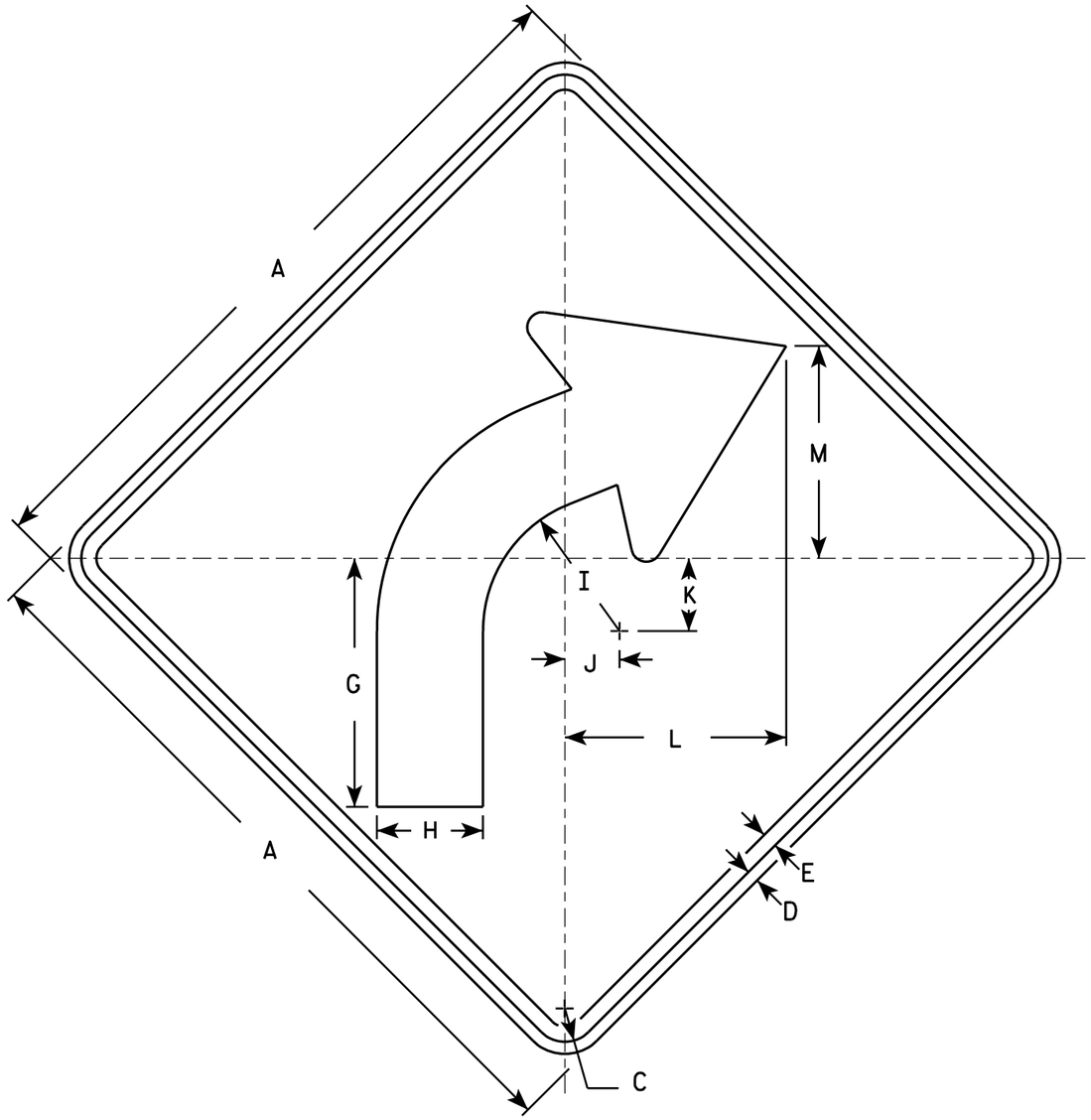
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 4/1/11 PLATE NO. R11-4.3

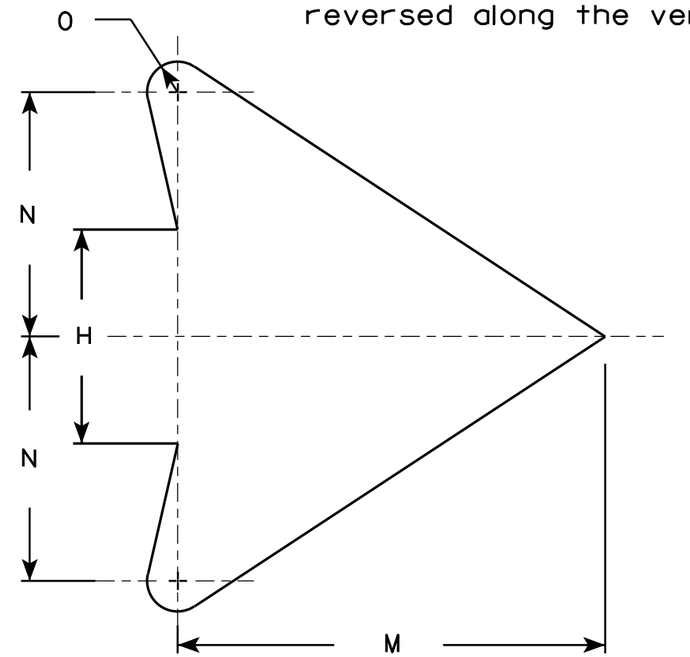
PROJECT NO:	HWY:	COUNTY:		SHEET NO: 169	E

NOTES

1. Sign is Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Yellow
   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. W1-2L is the same as W1-2R except the arrow is reversed along the vertical centerline.



W1-2R



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 1/8	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 3/8	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		1 5/8	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		1 5/8	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		1 5/8	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		2 1/4	3/4	1		16 1/2	7	9	3 1/2	4 5/8	14 1/2	14	8	1												16.0

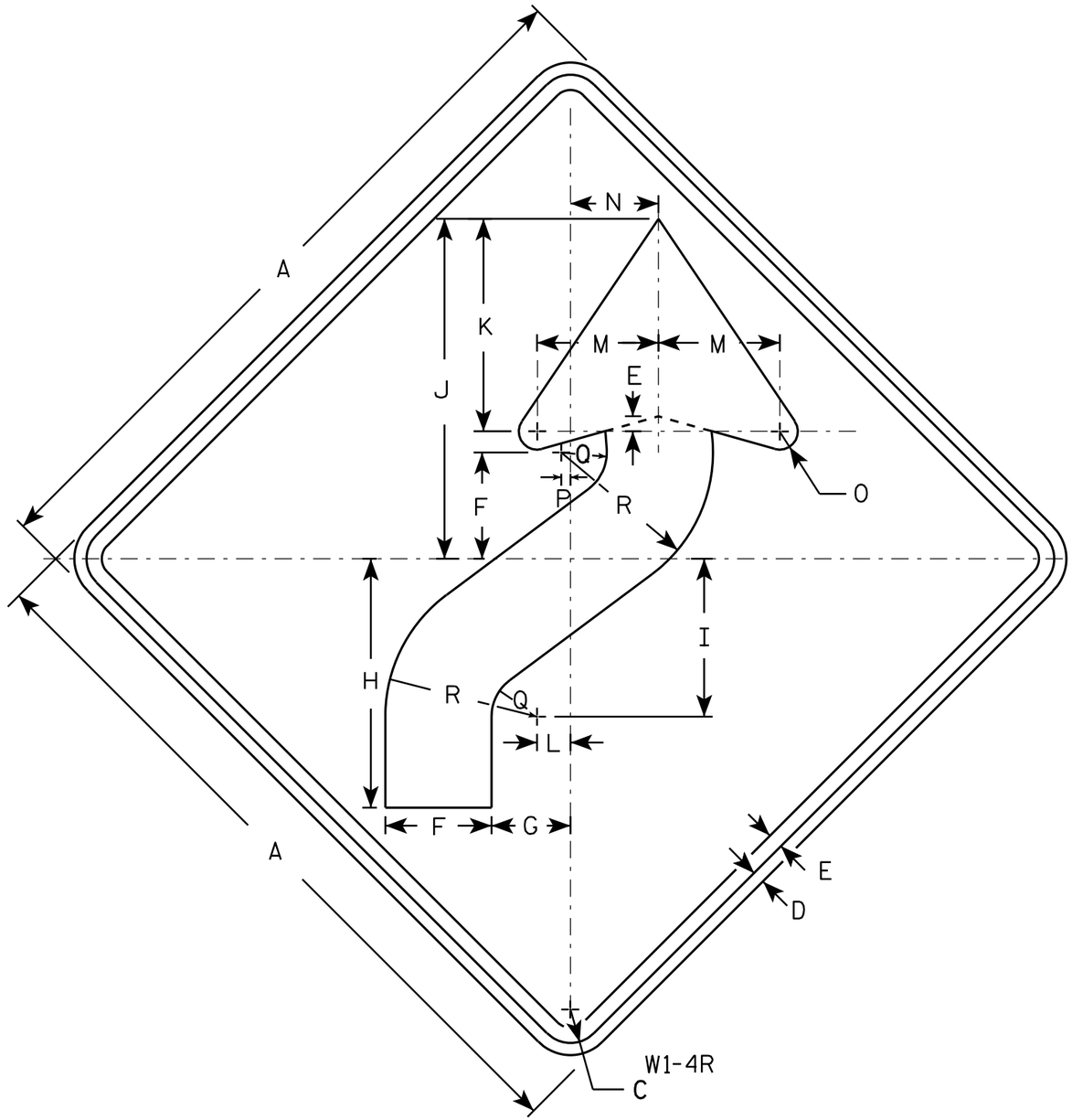
STANDARD SIGN
W1-2

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 5/15/12 PLATE NO. W1-2.10

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 170	E



NOTES

1. Sign is Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Yellow
   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. W1-4L is the same as W1-4R except the arrow 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	24		1 1/8	3/8	1/2	3 1/2	2 5/8	8 1/4	5 1/4	11 1/4	7	1 1/8	4	3	5/8	1/4	1 1/2	5									4.0
2S	30		1 3/8	1/2	5/8	4 3/8	3 1/4	10 1/4	6 1/2	14	8 3/4	1 3/8	5	3 5/8	3/4	3/8	1 7/8	6 1/4									6.25
2M	36		1 5/8	5/8	3/4	5 1/4	4	12 3/8	7 7/8	16 7/8	10 1/2	1 5/8	6	4 1/2	1	1/2	2 1/4	7 1/2									9.0
3	36		1 5/8	5/8	3/4	5 1/4	4	12 3/8	7 7/8	16 7/8	10 1/2	1 5/8	6	4 1/2	1	1/2	2 1/4	7 1/2									9.0
4	36		1 5/8	5/8	3/4	5 1/4	4	12 3/8	7 7/8	16 7/8	10 1/2	1 5/8	6	4 1/2	1	1/2	2 1/4	7 1/2									9.0
5	48		2 1/4	3/4	1	7	5 1/4	16 1/2	10 1/2	22 1/2	14	2 1/4	8	6	1 1/4	5/8	3	10									16.0

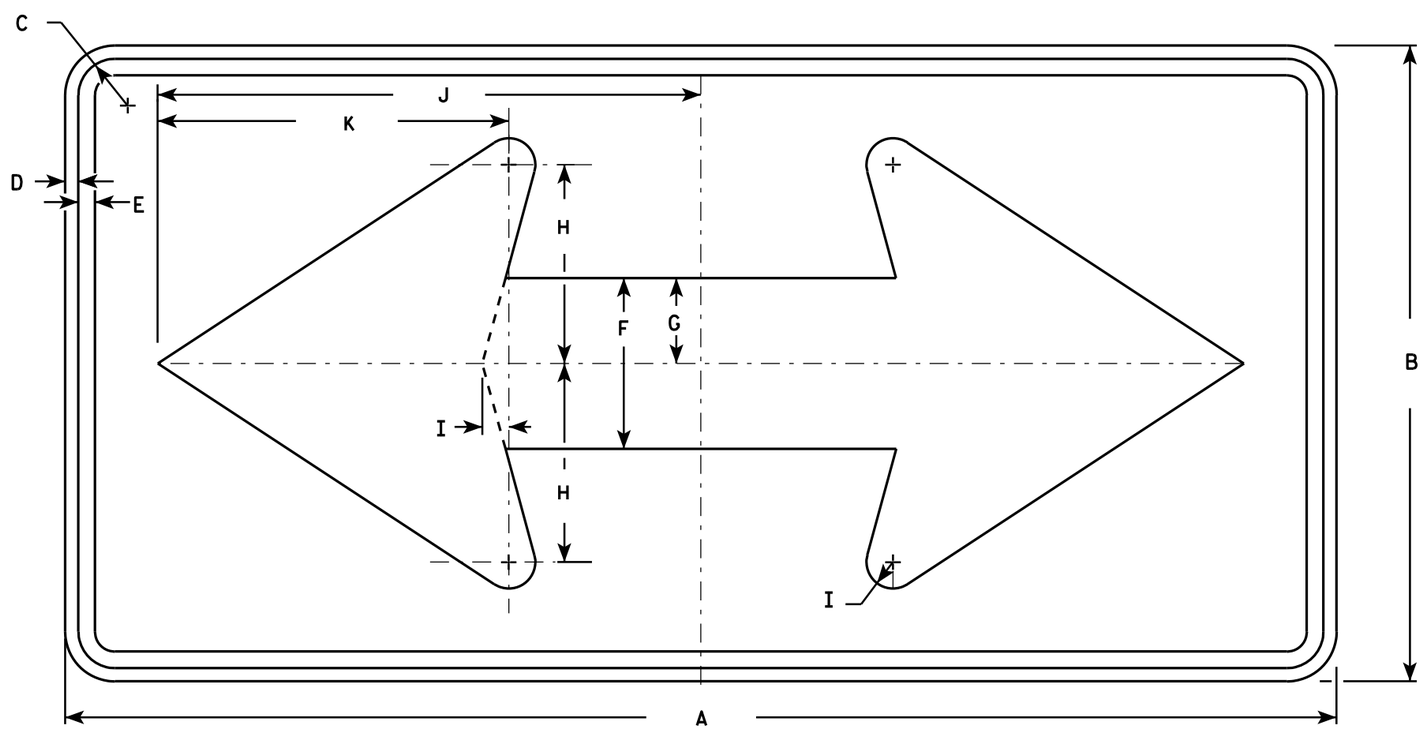
STANDARD SIGN
W1-4

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 5/17/12 PLATE NO. W1-4.11

PROJECT NO: | HWY: | COUNTY: | SHEET NO: 171 | E



W1-7

NOTES

1. Sign is Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Yellow
   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.

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 1/8	3/8	1/2	5	2 1/2	5 3/4	3/4	15 5/8	10 1/8																4.5
2S	48	24	1 3/8	1/2	5/8	6 1/2	3 1/4	7 1/2	1	20 1/2	13 1/4																8.0
2M	48	24	1 3/8	1/2	5/8	6 1/2	3 1/4	7 1/2	1	20 1/2	13 1/4																8.0
3	60	30	1 3/8	1/2	5/8	8	4	9 1/4	1 1/4	25 3/8	16 1/4																12.5
4	60	30	1 3/8	1/2	5/8	8	4	9 1/4	1 1/4	25 3/8	16 1/4																12.5
5	96	48	2 1/4	3/4	1	13	6 1/2	15	2	41	26 1/2																32.0

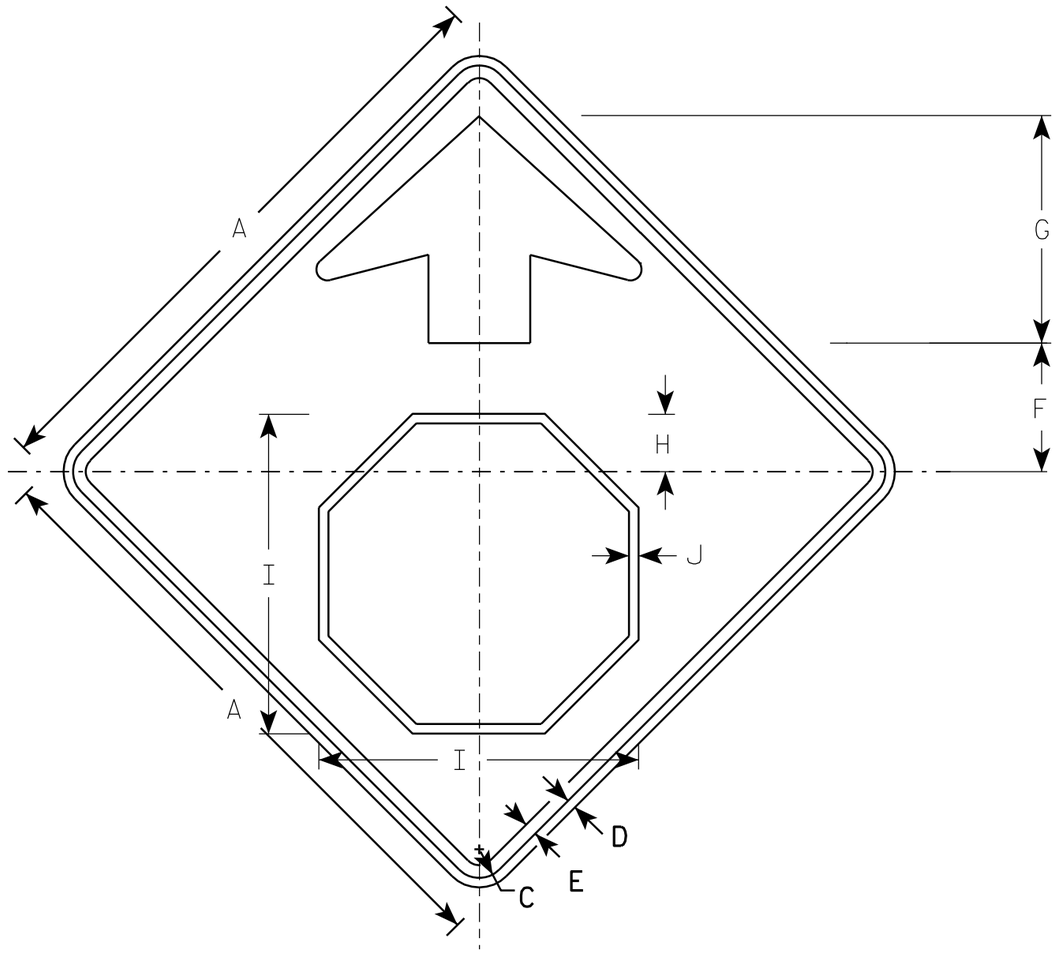
STANDARD SIGN
W1-7

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 6/7/10 PLATE NO. W1-7.7

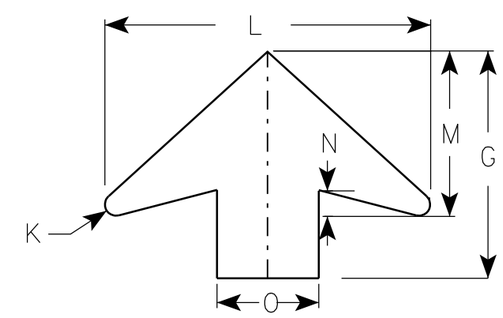
PROJECT NO: | HWY: | COUNTY: | SHEET NO: 172 | E



W3-1

NOTES

1. All Signs Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   - Background - YELLOW
   - Arrow & Border - BLACK
   - Stop Symbol - WHITE BORDER ON RED BACKGROUND



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	30		1 3/8	1/2	5/8	6 1/4	11 1/4	2 7/8	15 3/4	1/2	1/2	16	8	1 1/4	5												6.25
2S	36		1 5/8	5/8	3/4	7 1/2	13 1/2	3 1/2	19	5/8	5/8	19 1/4	9 3/4	1 5/8	6												9.0
2M	36		1 5/8	5/8	3/4	7 1/2	13 1/2	3 1/2	19	5/8	5/8	19 1/4	9 3/4	1 5/8	6												9.0
3	36		1 5/8	5/8	3/4	7 1/2	13 1/2	3 1/2	19	5/8	5/8	19 1/4	9 3/4	1 5/8	6												9.0
4	48		2 1/4	3/4	1	10	17 7/8	4 1/2	25 1/8	3/4	7/8	25 5/8	13	2	8												16.0
5	48		2 1/4	3/4	1	10	17 7/8	4 1/2	25 1/8	3/4	7/8	25 5/8	13	2	8												16.0

STANDARD SIGN
W3-1

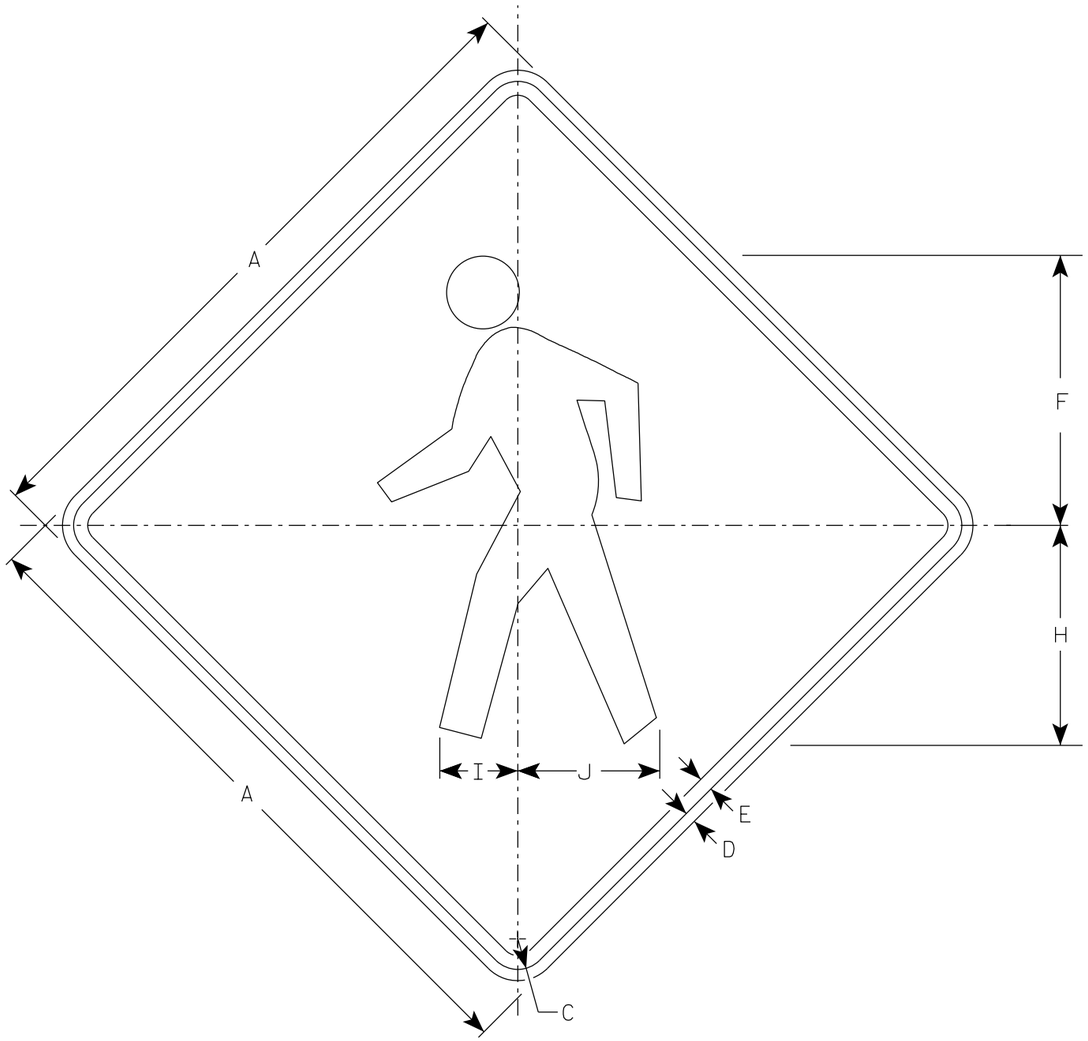
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 6/7/10 PLATE NO. W3-1.12

PROJECT NO:

SHEET NO: 173 E



W11-2

NOTES

1. Sign is Type II - Type F Reflective
2. Color:
   Background - Yellow
   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	24		1 1/8	3/8	1/2	9 3/4		7 7/8	2 7/8	5 1/8																	4.0
2S	30		1 3/8	1/2	5/8	12 1/8		9 7/8	3 1/2	6 3/8																	6.25
2M	36		1 5/8	5/8	3/4	14 1/2		11 7/8	4 1/4	7 5/8																	9.0
3	36		1 5/8	5/8	3/4	14 1/2		11 7/8	4 1/4	7 5/8																	9.0
4	48		2 1/4	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

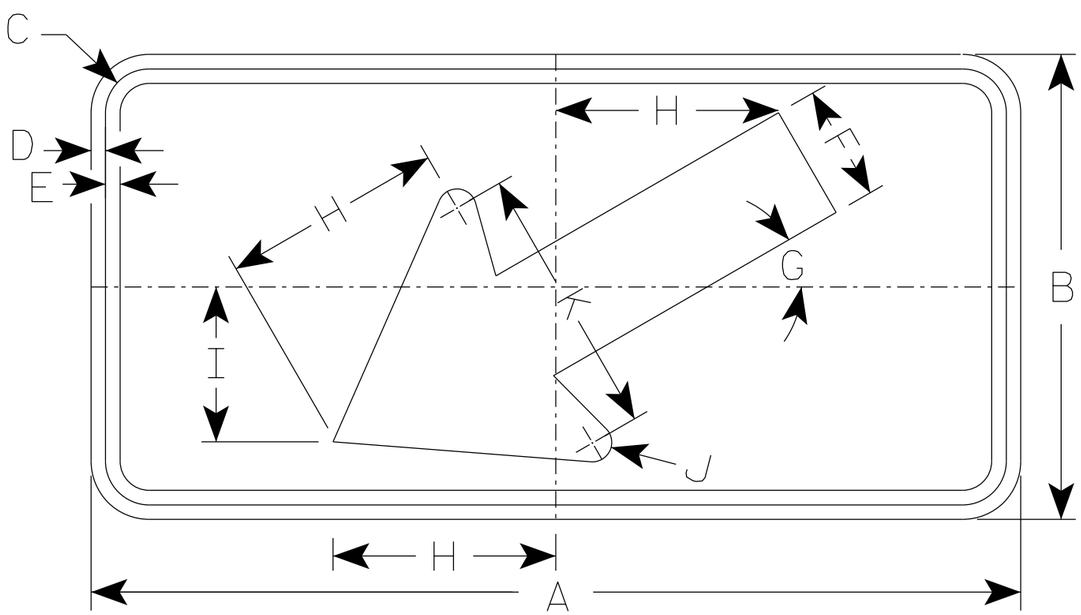
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 4/8/2020 PLATE NO. W11-2.8

PROJECT NO: | HWY: | COUNTY: | SHEET NO: 174 | E

NOTES

1. Sign is Type II - Type F Reflective
2. Color:
   Background - Yellow
   Message - Black
3. W16-7R is the same as W16-7L
   except the arrow is reversed along
   the vertical centerline.



W16-7L

* For 36" x 36" Warning Signs, use 30" x 18" W16-7L signs.
* For 48" x 48" Warning Signs, use 48" x 24" W16-7L 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 1/8	3/8	3/8	3	30°	5 3/4	4	1/2	7																2.0
* 2M	30	18	1 1/8	3/8	1/2	4 1/2	30°	8 1/2	6	5/8	10 1/4																3.75
* 3	30	18	1 1/8	3/8	1/2	4 1/2	30°	8 1/2	6	5/8	10 1/4																3.75
* 4	48	24	1 3/8	1/2	5/8	6	30°	11 1/2	8	1	14																8.0
5																											

STANDARD SIGN
W16-7

WISCONSIN DEPT OF TRANSPORTATION

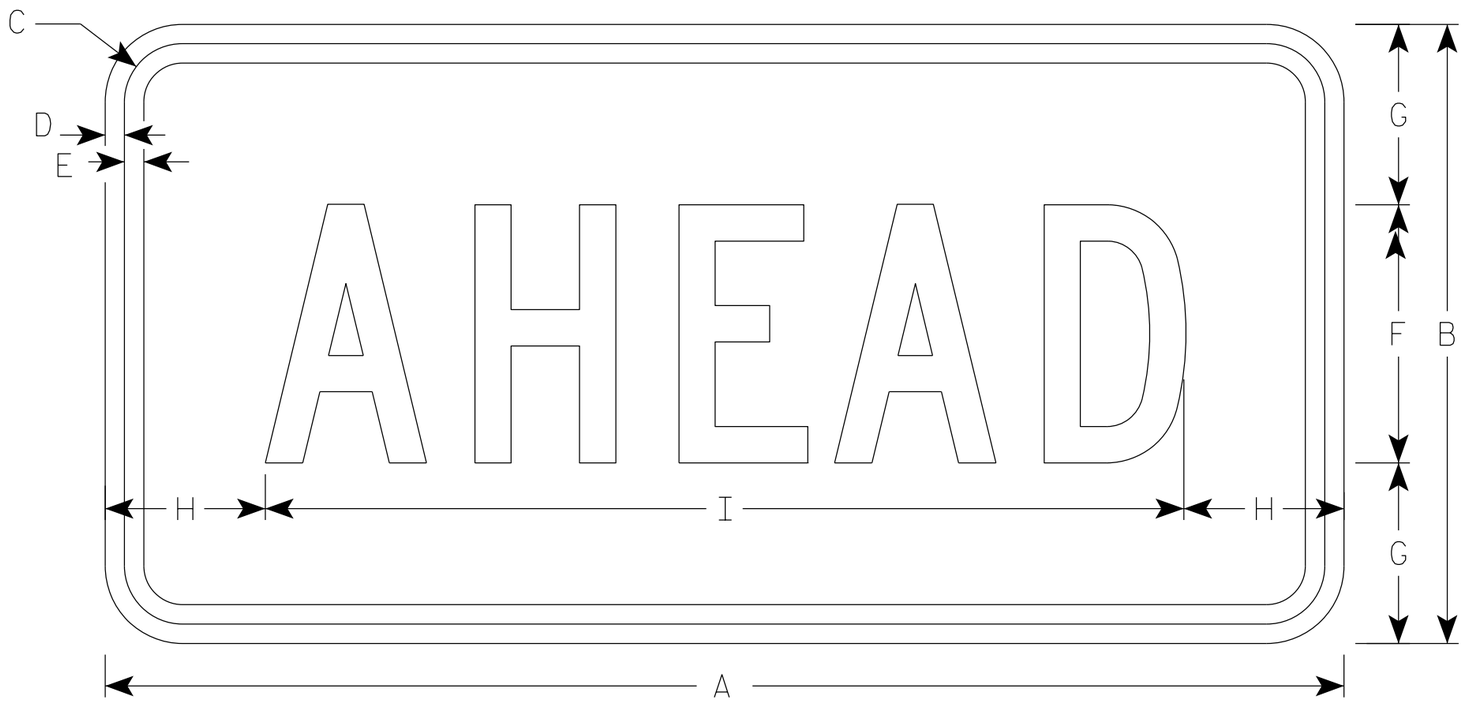
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 3/16/2021 PLATE NO. W16-7.8

PROJECT NO: | HWY: | COUNTY: | SHEET NO: 175 | E

NOTES

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



W16-9P

7

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																											
2S	24	12	1 1/8	3/8	3/8	5	3 1/2	3 1/8	17 3/4																		2.0
2M	30	18	1 1/8	3/8	1/2	7	5 1/2	2 3/4	24 1/2																		3.75
3	30	18	1 1/8	3/8	1/2	7	3 1/2	2 3/4	24 1/2																		3.75
4	48	24	1 3/8	1/2	5/8	10	7	6 1/8	35 3/4																		8.0
5																											

STANDARD SIGN
W16-9P

WISCONSIN DEPT OF TRANSPORTATION

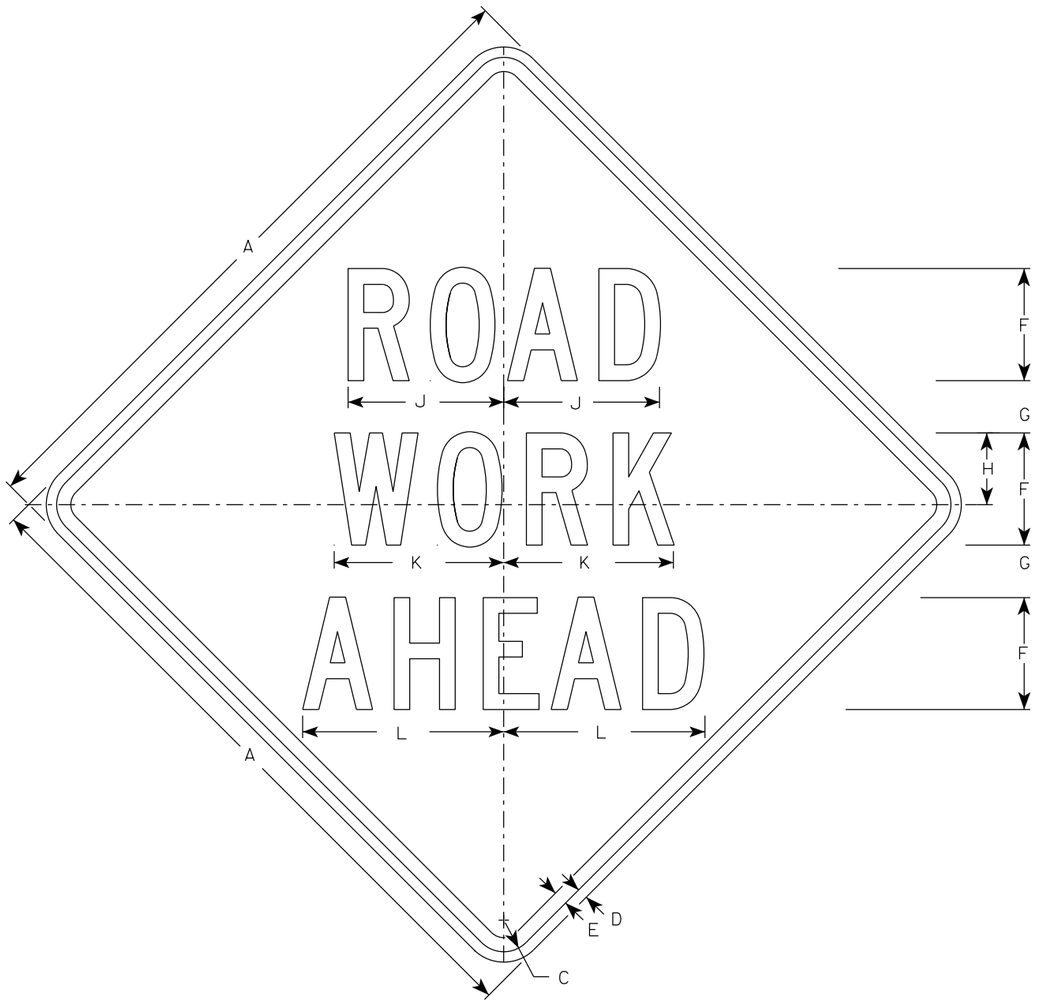
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 3/7/19 PLATE NO. W16-9P.7

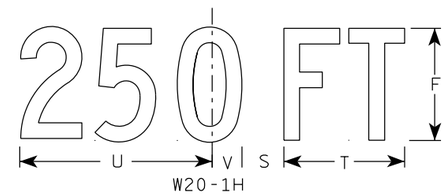
PROJECT NO: | HWY: | COUNTY: | SHEET NO: 176 | E

NOTES

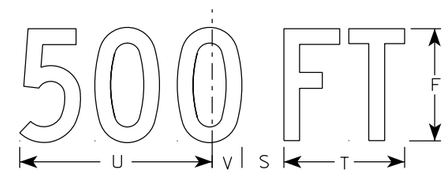
1. Sign is Type II - Type F Reflective
2. Color:
   Background - Orange
   Message - Black
3. Message Series - C
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.



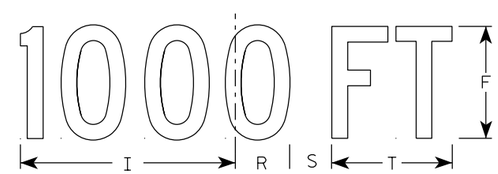
W20-1A



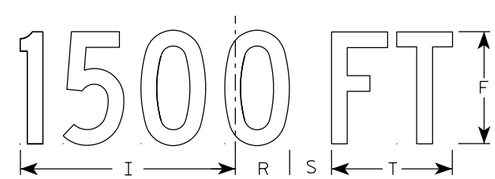
W20-1H



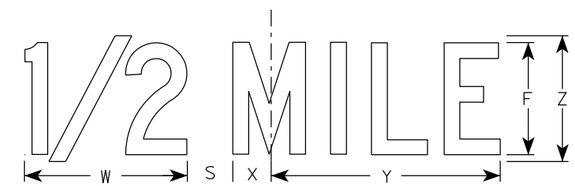
W20-1D



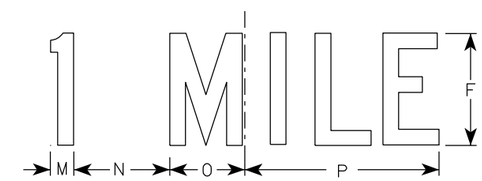
W20-1C



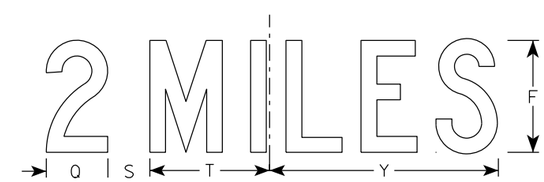
W20-1B



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		1 5/8	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		2 1/4	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		2 1/4	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		2 1/4	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		2 1/4	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		2 1/4	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

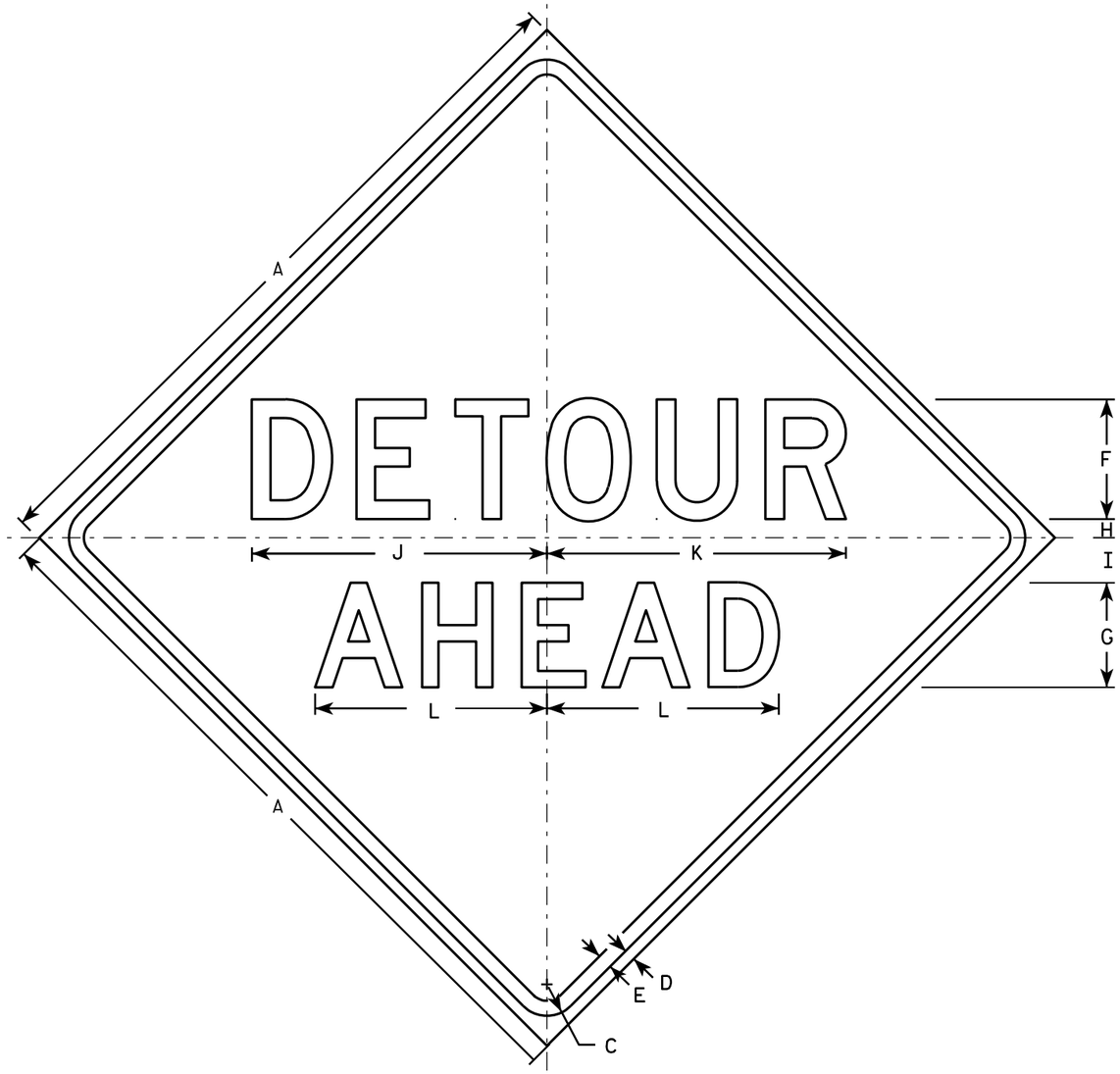
STANDARD SIGN
W20-1A, B, C, D, E, F, G & H

WISCONSIN DEPT OF TRANSPORTATION

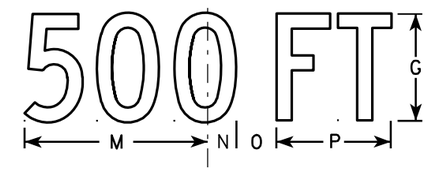
APPROVED Matthew R Rauch
For State Traffic Engineer
DATE 3/25/2020 PLATE NO. W20-1.11

PROJECT NO:

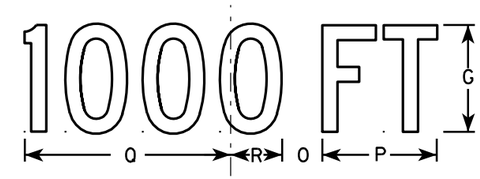
SHEET NO: 177 E



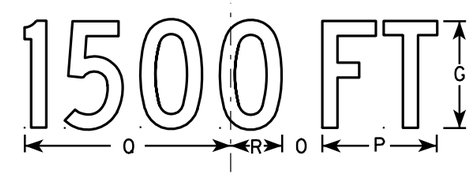
W20-2A



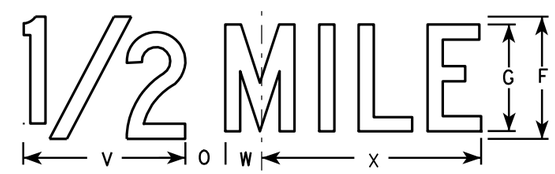
W20-2D



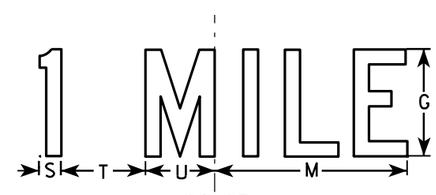
W20-2C



W20-2B



W20-2G



W20-2F

NOTES

1. Sign is Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
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		1 5/8	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		2 1/4	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		2 1/4	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		2 1/4	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		2 1/4	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		2 1/4	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

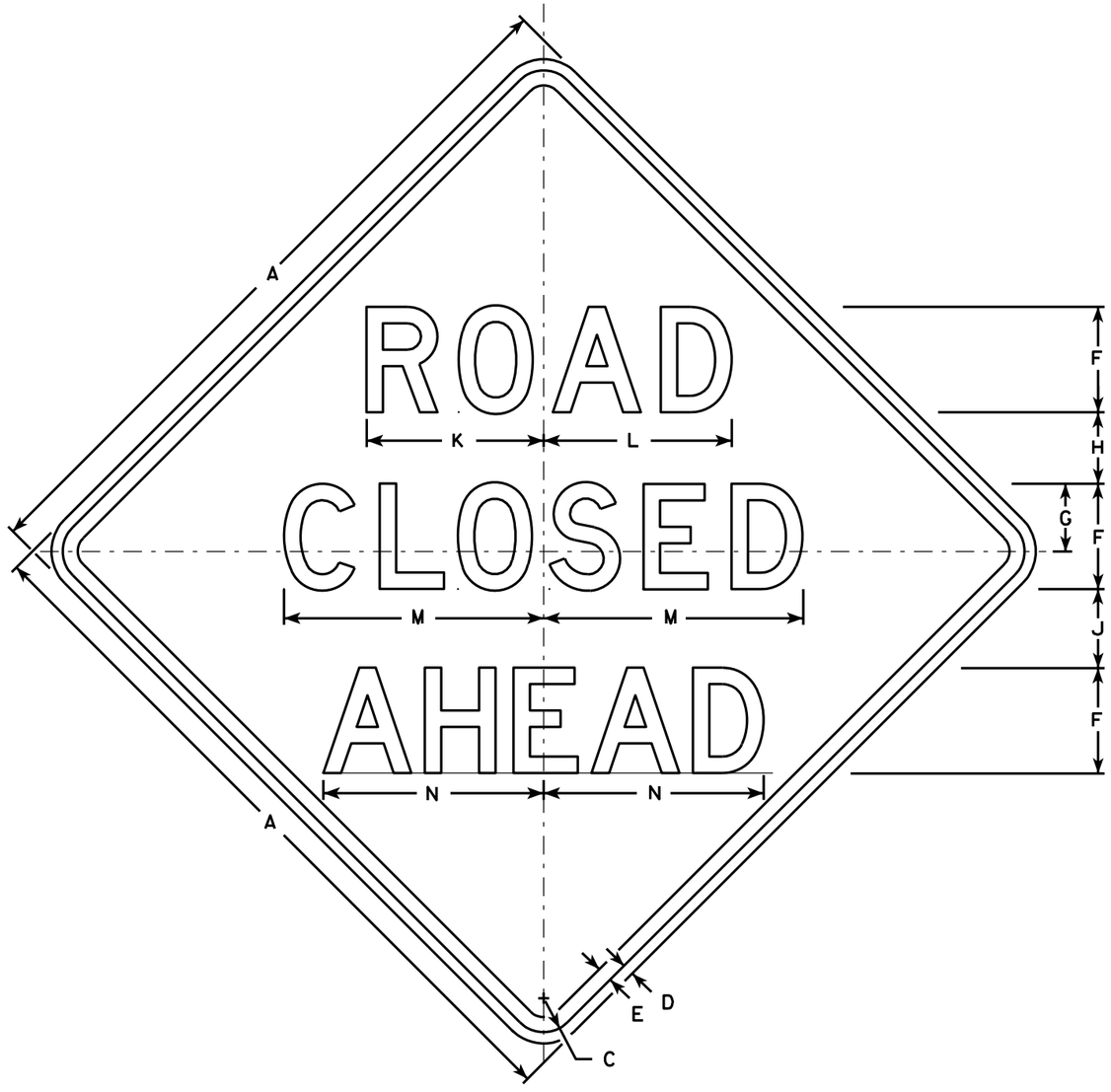
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer
DATE 3/18/11 PLATE NO. W20-2.6

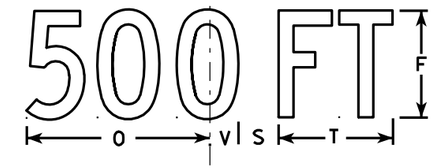
7

7

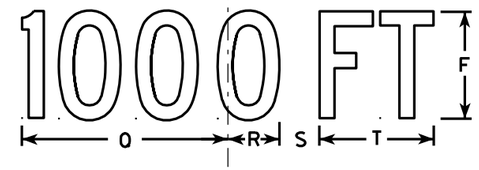
PROJECT NO: | HWY: | COUNTY: | SHEET NO: 178 | E



W20-3A



W20-3D



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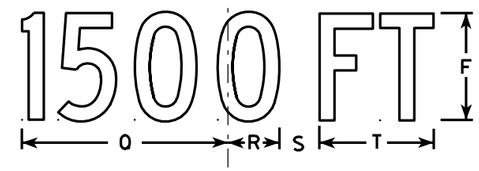
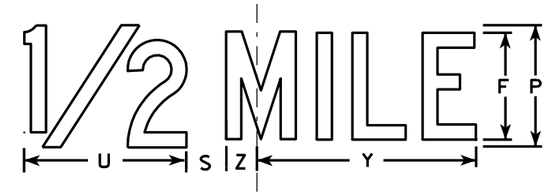
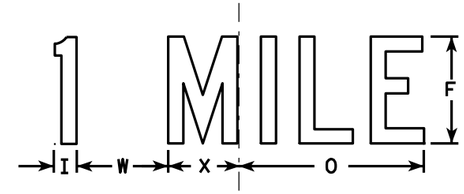


W20-3B



W20-3G



W20-3F

NOTES

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2S	48		2 1/4	3/4	1	7	4 1/2	4 3/4	1 1/2	5 1/4	11 3/4	12 1/2	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		2 1/4	3/4	1	7	4 1/2	4 3/4	1 1/2	5 1/4	11 3/4	12 1/2	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		2 1/4	3/4	1	7	4 1/2	4 3/4	1 1/2	5 1/4	11 3/4	12 1/2	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
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5	48		2 1/4	3/4	1	7	4 1/2	4 3/4	1 1/2	5 1/4	11 3/4	12 1/2	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
W20-3A, B, C, D, F & G

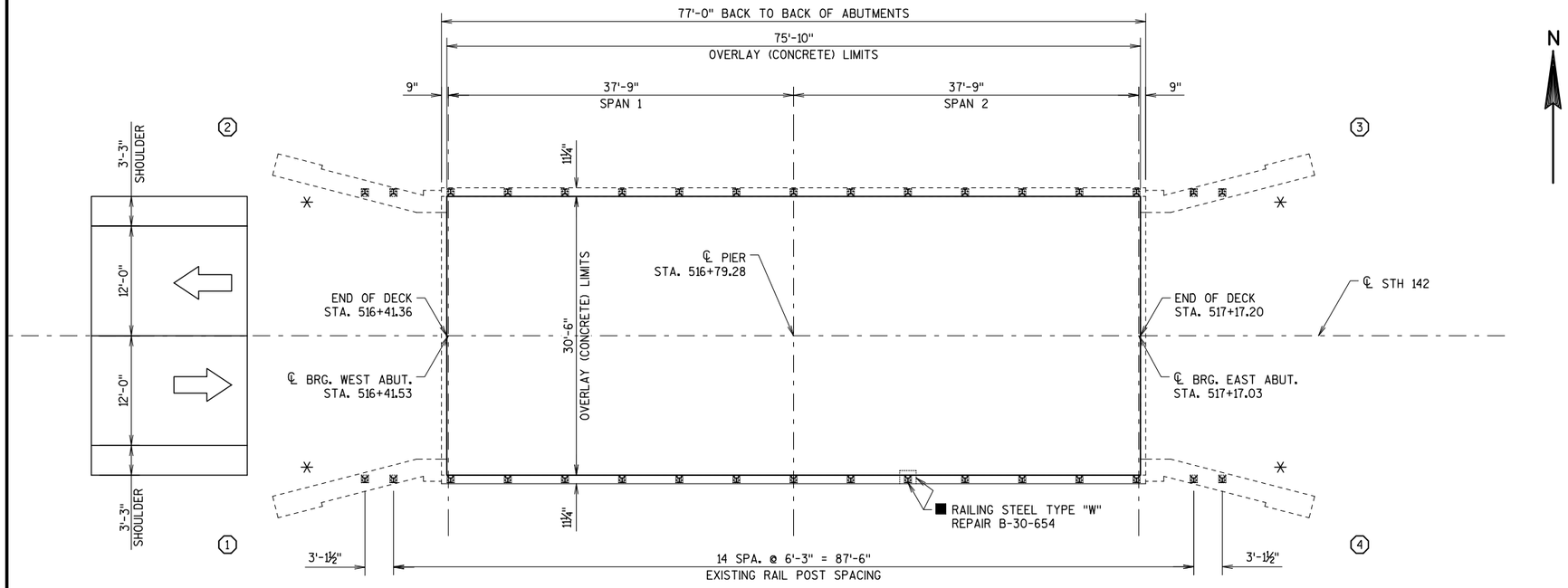
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer
DATE 3/18/11 PLATE NO. W20-3.7

PROJECT NO: | HWY: | COUNTY: | SHEET NO: 179 | E

STATE PROJECT NUMBER

3834-06-70



PLAN

(CONCRETE OVERLAY: 2 SPAN - CONCRETE HAUNCHED SLAB)

DESIGN DATA

LIVE LOAD:

DESIGN LOADING	HS20
INVENTORY RATING	HS23
OPERATIONAL RATING	HS38
WISCONSIN STANDARD PERMIT VEHICLE (WIS-SPV)	250 KIPS

MATERIAL PROPERTIES:

CONCRETE MASONRY OVERLAY DECKS	f'c = 4,000 PSI
ALL OTHER CONCRETE	f'c = 3,500 PSI
HIGH STRENGTH BAR STEEL REINFORCEMENT	fy = 60,000 PSI

TRAFFIC DATA

STH 142

ADT (2021) = 4,500

ADT (2041) = 5,200

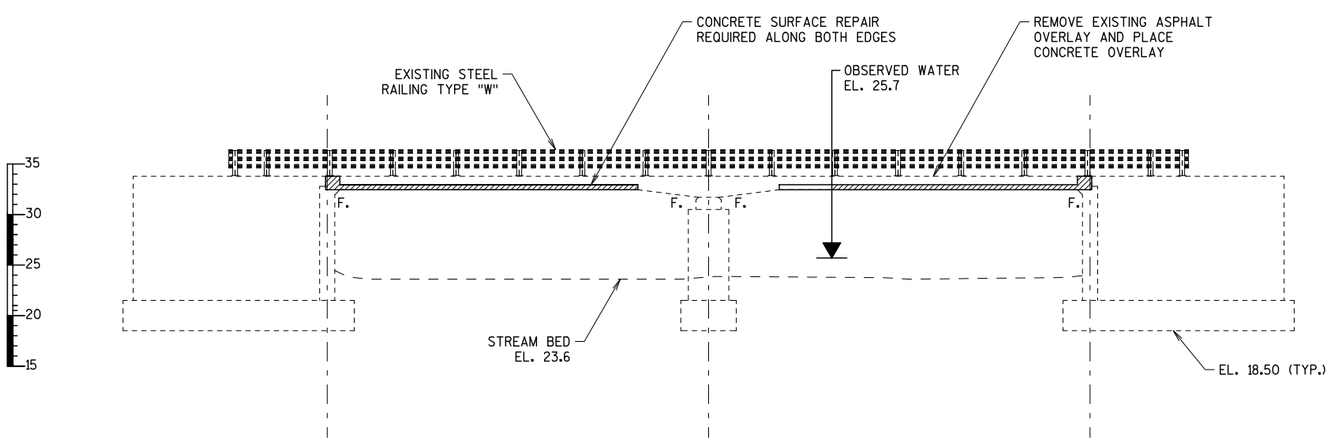
DESIGN SPEED = 55 MPH

LEGEND

- ◯ DENOTES WING NUMBER
- ✳ EXISTING THRIE BEAM CONNECTION
- ■ RAILING STEEL TYPE "W" REPAIR B-30-654 INCLUDES THE FOLLOWING:
  - SAW CUT AND REMOVAL OF DETERIORATED CONCRETE AND EXISTING RAIL POST ANCHORAGES AT LOCATIONS DESIGNATED BY THE ENGINEER.
  - DISPOSAL OF WASTE MATERIAL & FORMING.
  - SALVAGING, CLEANING, AND INCORPORATING EXISTING REINFORCEMENT. IF DIRECTED BY ENGINEER, ADD SUPPLEMENTAL REINFORCEMENT.
  - FURNISHING AND INSTALLING NEW ANCHORAGES PER THE DETAILS ON SHEET 3.
  - CONCRETE WILL BE PAID FOR UNDER THE "CONCRETE MASONRY OVERLAY DECKS" ITEM.

WISCONSIN PROFESSIONAL ENGINEER
WILLIAM A. HOVE
E-33600
MADISON, WI

10/18/2021



ELEVATION

(NORMAL TO DES PLAINES RIVER)

LIST OF DRAWINGS

1. GENERAL PLAN & ELEVATION
2. CROSS SECTION & QUANTITIES
3. RAILING REPAIR DETAILS

BRIDGE OFFICE CONTACT
AARON BONK, P.E.
TELEPHONE: (608) 261-0261

CONSULTANT CONTACT
BILL HOVE, P.E.
TELEPHONE: (262) 393-1260

NO.	DATE	REVISION	BY

CORRE ENGINEERING
6510 GRAND TETON PLAZA
SUITE 314
MADISON, WI 53719
(608)828-1011
www.correninc.com

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED SDR 10/19/21
CHIEF STRUCTURES DESIGN ENGINEER DATE

STRUCTURE B-30-654

STH 142 OVER DES PLAINES RIVER

COUNTY	KENOSHA
TOWN/~~CITY/VILLAGE~~	PARIS
DESIGN SPEC.	REHABILITATION N/A

DESIGNED BY	BH	DESIGN CK'D.	ETP	DRAWN BY	PKF	PLANS CK'D.	BH

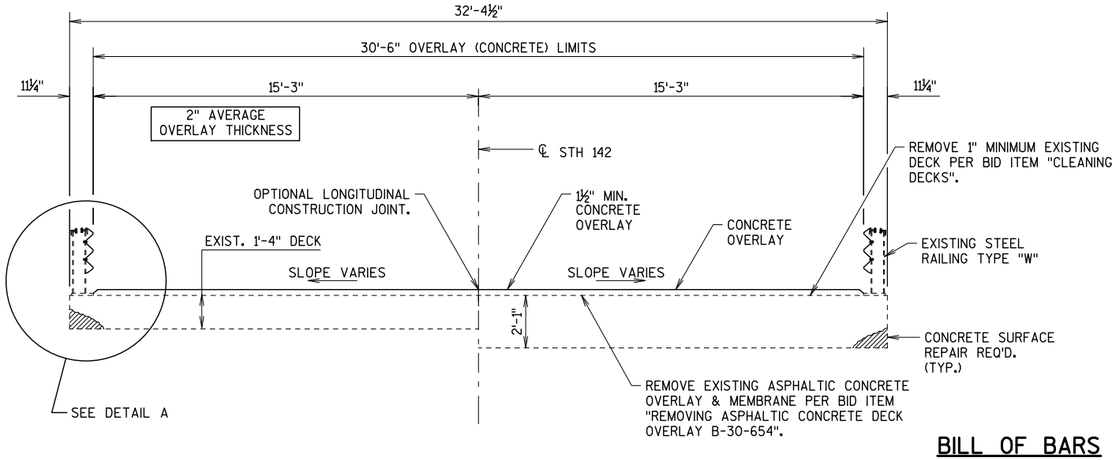
GENERAL PLAN & ELEVATION

SHEET 1 of 3

180

8

8



CROSS SECTION THRU BRIDGE

(LOOKING EAST)

SUPERELEV. TRANSITION TABLE

STATION	CROWN	
	LT. SIDE	RT. SIDE
516+41 TO 517+06.94	-1.5%	-1.5%
517+10	-1.36%	-1.5%
517+15	-1.2%	-1.5%
517+17.55	-1.0%	-1.5%

TABLE IS FOR REFERENCE ONLY, MATCH EXISTING SLOPES.

BILL OF BARS

	BAR MARK	COAT	NO. REQ'D.	LENGTH	BENT	DESCRIPTION
*	S901	----	4	30'-0"	----	EDGE OF DECK - LONGIT.
	TOTAL WEIGHT =					410 LBS.

*ESTIMATED LENGTH, ANTICIPATE FIELD CUTTING REQUIRED.

GENERAL NOTES

THE PROPOSED WORK INCLUDES REMOVAL OF EXISTING ASPHALTIC CONCRETE OVERLAY, PLACEMENT OF A CONCRETE OVERLAY, CONCRETE SURFACE REPAIR WITH CATHODIC PROTECTION, AND RAILING REPAIR.

DRAWINGS SHALL NOT BE SCALED.

DIMENSIONS SHOWN ARE BASED ON THE ORIGINAL STRUCTURE PLANS.

ELEVATIONS ARE BASED ON THE INSPECTION REPORT OR EXISTING PLANS.

BAR STEEL REINFORCEMENT SHALL BE EMBEDDED 2" CLEAR UNLESS OTHERWISE SHOWN OR NOTED.

PROFILE GRADE LINE SHALL BE DETERMINED IN THE FIELD BASED ON A MINIMUM OVERLAY THICKNESS OF 1½" PLACED ABOVE THE DECK AFTER SURFACE PREPARATION. EXPECTED AVERAGE OVERLAY THICKNESS IS 2". IF EXPECTED AVERAGE OVERLAY THICKNESS IS EXCEEDED BY MORE THAN ½", CONTACT THE STRUCTURE DESIGN SECTION.

A MINIMUM OF 1-INCH OF CONCRETE SHALL BE REMOVED FROM THE ENTIRE BRIDGE DECK UNDER THE BID ITEM "CLEANING DECKS". A MINIMUM OF 1-INCH OF EXISTING CONCRETE COVER SHALL BE MAINTAINED.

ANY EXCAVATION REQUIRED TO COMPLETE THE OVERLAY IS INCIDENTAL TO THE BID ITEM "CONCRETE MASONRY OVERLAY DECKS".

THE FIRST DIGIT OF A THREE DIGIT AND THE FIRST TWO DIGITS OF A FOUR DIGIT BAR MARK SIGNIFY THE BAR SIZE.

CLEAN, STRAIGHTEN, AND EXTEND EXISTING BAR STEEL REINFORCEMENT 24 BAR DIAMETERS INTO NEW CONSTRUCTION WHERE APPLICABLE.

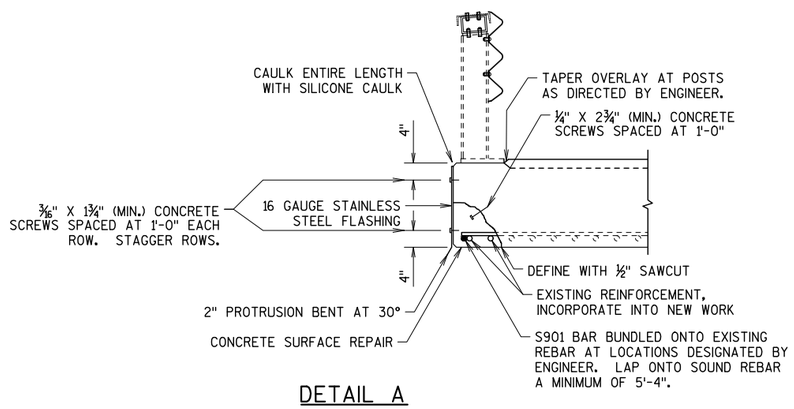
ALL CONCRETE REMOVAL NOT COVERED WITH A CONCRETE OVERLAY SHALL BE DEFINED BY A ½" DEEP SAW CUT.

"PREPARATION DECKS TYPE 1", "PREPARATION DECKS TYPE 2", AND "CONCRETE SURFACE REPAIR" QUANTITIES ARE APPROXIMATE. CONTRACTOR SHALL COORDINATE THE FIELD IDENTIFICATION AND DETERMINATION OF ALL REPAIR LOCATIONS WITH THE ENGINEER. DECK PREPARATION SHALL BE FILLED WITH "CONCRETE MASONRY OVERLAY DECKS".

ALL PREVIOUS PATCHES SHALL BE REMOVED UNDER THE BID ITEM FOR "PREPARATION DECKS TYPE 1", AND "PREPARATION DECKS TYPE 2".

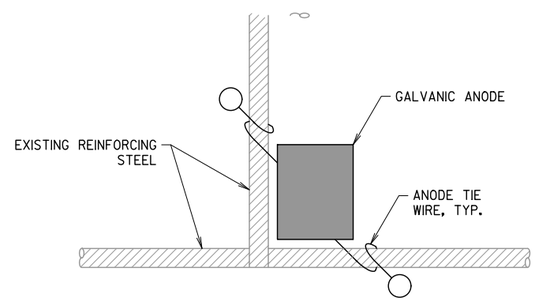
MATERIALS, EQUIPMENT, ETC. SHALL NOT BE STOCKPILED/STORED ON THE BRIDGE DECK WITHOUT PRIOR APPROVAL FROM THE ENGINEER.

PROTECTIVE SURFACE TREATMENT SHALL BE APPLIED TO THE ENTIRE TOP SURFACE OF THE NEW OVERLAY AND TO EXPOSED EXISTING CONCRETE BETWEEN THE RAIL POSTS. CLEAN AND PREPARE EXISTING CONCRETE PER 502.3.13.2 OF THE STANDARD SPECS., INCLUDED IN THE PROTECTIVE SURFACE TREATMENT ITEM.

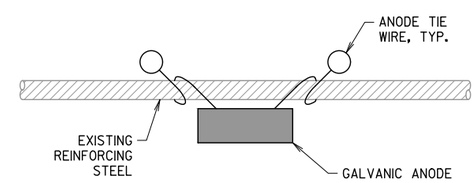


DETAIL A

THE BID ITEM "FLASHING STAINLESS STEEL" SHALL INCLUDE PROVIDING AND INSTALLING THE STAINLESS STEEL FLASHING, SILICONE CAULK, ⅜" AND ¼" CONCRETE SCREWS, AND CLEANING THE EDGE OF THE DECK PRIOR TO ATTACHMENT OF THE FLASHING.



TYPICAL INSTALLATION AT BAR STEEL INTERSECTION



TYPICAL INSTALLATION FOR BAR STEEL

CATHODIC PROTECTION REPAIR NOTES

SEE SPECIAL PROVISION "EMBEDDED GALVANIC ANODES" FOR DESCRIPTION, MATERIALS, CONSTRUCTION, MEASUREMENT, AND PAYMENT INFORMATION.

SURFACE REPAIR AREAS WITH CATHODIC PROTECTION ARE BASED ON THE PLANS AND AS DETERMINED BY THE ENGINEER. THE PLAN QUANTITY FOR THE BID ITEM "EMBEDDED GALVANIC ANODES" IS BASED ON A MAXIMUM SPACING OF 24-INCHES AROUND THE SURFACE REPAIR PERIMETER. THE ACTUAL QUANTITY SHALL BE BASED ON THE FIELD CONDITIONS AND AS RECOMMENDED BY THE GALVANIC ANODE SUPPLIER.

SURFACE REPAIRS SHALL BE FILLED WITH REPAIR MATERIALS COMPATIBLE WITH CATHODIC PROTECTION, AS RECOMMENDED BY THE ANODE SUPPLIER.

EXISTING REINFORCING STEEL TO BE COMPLETELY CLEANED OF CORRODED MATERIAL AND CONCRETE TO PROVIDE SUFFICIENT ELECTRICAL CONNECTION AND BOND. CATHODIC PROTECTION PREPARATIONS ARE INCLUDED IN THE BID ITEM "EMBEDDED GALVANIC ANODES".

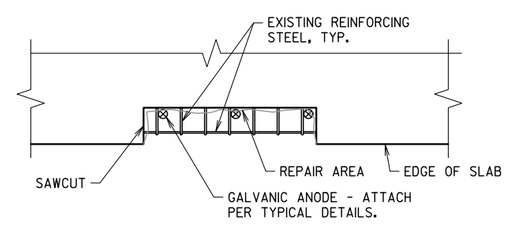
ANODES NEAREST TO EDGE OF REPAIR TO BE WITHIN 6" OF EDGE.

AFTER PLACEMENT, GALVANIC ANODES SHOULD MAINTAIN A MINIMUM TOP COVER OF 1½" AND A MINIMUM BOTTOM COVER OF ¾".

TOTAL ESTIMATED QUANTITIES

ITEM NUMBER	BID ITEMS	UNIT	WEST ABUT.	PIER	EAST ABUT.	SUPER	TOTAL
203.0335	DEBRIS CONTAINMENT OVER WATERWAY B-30-654	EACH	----	----	----	----	1
502.3200	PROTECTIVE SURFACE TREATMENT	SY	----	----	----	275	275
505.0400	BAR STEEL REINFORCEMENT HS STRUCTURES	LB	----	----	----	410	410
509.0301	PREPARATION DECKS TYPE 1	SY	----	----	----	50	50
509.0302	PREPARATION DECKS TYPE 2	SY	----	----	----	20	20
509.0500	CLEANING DECKS	SY	----	----	----	260	260
509.1500	CONCRETE SURFACE REPAIR	SF	75	150	75	350	650
509.2500	CONCRETE MASONRY OVERLAY DECKS	CY	----	----	----	18	18
509.9010.S	REMOVING ASPHALTIC CONCRETE DECK OVERLAY B-30-654	SY	----	----	----	260	260
SPV.0060.01	EMBEDDED GALVANIC ANODES	EACH	----	----	----	160	160
SPV.0060.02	RAILING STEEL TYPE "W" REPAIR B-30-654	EACH	----	----	----	----	3
SPV.0090.01	FLASHING STAINLESS STEEL	LF	----	----	----	154	154

ALL BID ITEMS ARE CATEGORY 0020



PART. PLAN TYPICAL CATHODIC PROTECTION REPAIR DETAIL

(APPLICABLE FOR CONCRETE SURFACE REPAIR LOCATIONS AT EDGE OF SLAB ONLY)

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

STRUCTURE B-30-654

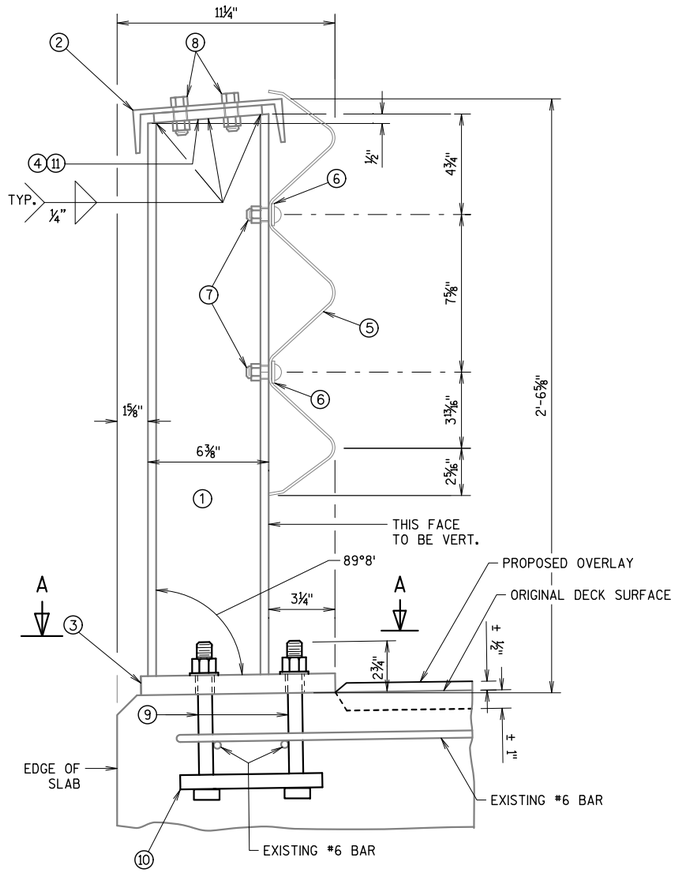
DRAWN BY PKF PLANS CK'D. BH

CROSS SECTION & QUANTITIES

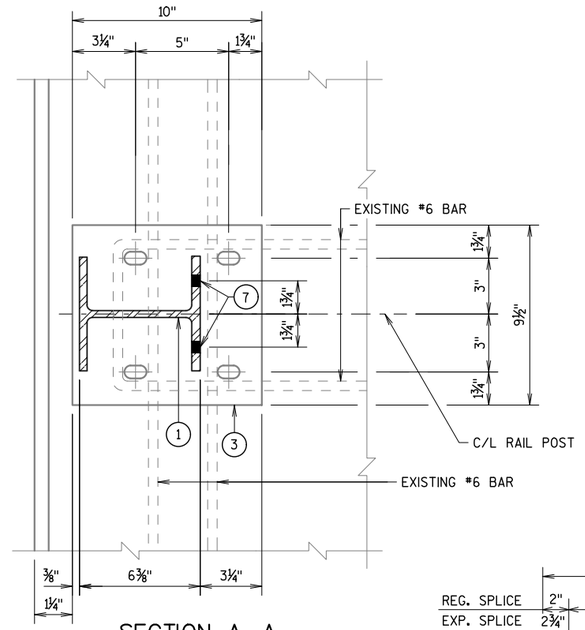
SHEET 2 OF 3

STATE PROJECT NUMBER

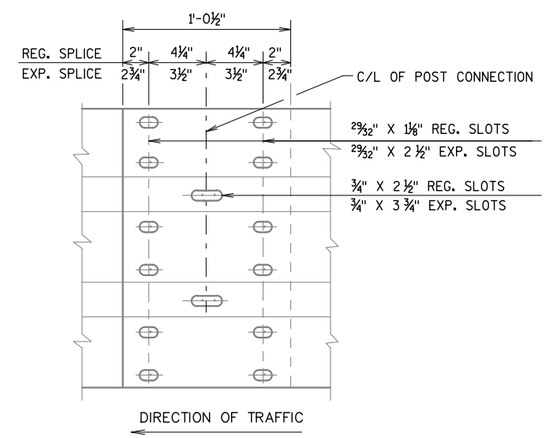
3834-06-70



SECTION THRU EXISTING RAILING



SECTION A–A



RAIL MEMBER SPLICE

⅝" DIA. BUTTON HEAD OVAL SHOULDER BOLTS WITH HEX NUTS AT ALL SLOTS.

LEGEND

1. W6x25 WITH 2 - ¾" x 2½" VERTICAL SLOTS ON ONE SIDE OF POST FLANGE FOR BOLT NO. 7.
2. C8x11.5 WITH 13/16" DIA. HOLES, ATTACH TO NO. 4 WITH BOLTS NO. 8.
3. BASE PLATE 1" X 9½" x 10" WITH 1 1/16" x 1½" SLOTTED HOLES FOR ANCHOR BOLTS NO. 9. WELD TO NO. 1 AS SHOWN.
4. PLATE ½" x 5¾" x 6", WITH 1¼" DIA. HOLE FOR BOLTS NO. 8. WELD TO NO. 1 AS SHOWN.
5. CORRUGATED SHEET BEAM PER STANDARD SPECIFICATIONS. ATTACH TO NO. 1 WITH BOLTS NO. 7.
6. 1¾" x 3" MOUNTING BOLT WASHER (GALVANIZED).
7. ⅝" DIA. BUTTON HEAD RAIL MOUNTING BOLT WITH ROUND WASHER AND NUT.
8. ⅝" DIA. x 2" LG. HEX BOLTS WITH NUT AND TWO WASHERS EACH. 4 REQ'D. PER POST CONNECTION, 8 REQ'D. PER SPLICE.
9. A325 - ⅞" DIA. HEX BOLTS (GALVANIZED) WITH A325 NUT AND WASHER. 14" LONG AT END POSTS AND AT POSTS ON CONCRETE SLAB SUPERSTRUCTURES WHERE THE SLAB THICKNESS IS > 15". USE 8" LONG AT ALL OTHER LOCATIONS. 4 REQ'D. PER POST. THREAD 3" AND PLACE NORMAL TO PLATE NO. 3. CHAMFER TOP OF BOLTS BEFORE THREADING.
10. ¼" x 8" x 8" FLAT BAR WITH 15/16" DIA. HOLES FOR ANCHOR BOLTS NO. 9.
11. PLATE ½" x 5¾" x 11½" WITH 1¼" DIA. HOLES FOR BOLTS NO. 8. WELD THE SAME AS NO. 4. USE AT CHANNEL FIELD SPLICE ONLY.

NOTES

BID ITEM SHALL BE "RAILING STEEL TYPE W REPAIR B-30-654" WHICH INCLUDES:

- SAW CUT AND REMOVAL OF DETERIORATED CONCRETE AND EXISTING RAIL POST ANCHORAGES AT LOCATIONS DESIGNATED BY THE ENGINEER.
- DISPOSAL OF WASTE MATERIAL & FORMING.
- SALVAGING, CLEANING, AND INCORPORATING EXISTING REINFORCEMENT. IF DIRECTED BY ENGINEER, ADD SUPPLEMENTAL REINFORCEMENT.
- FURNISHING AND INSTALLING NEW ANCHORAGES PER THE DETAILS ON THIS SHEET.
- CONCRETE WILL BE PAID FOR UNDER THE "CONCRETE MASONRY OVERLAY DECKS" ITEM.

POST BASE PLATES SHALL BE FLAT WITH ALL SURFACES SMOOTH AND FREE FROM WARP AND ALL EDGES SMOOTH, STRAIGHT AND VERTICAL. ALL PLATE CUTS SHALL BE MACHINE OR MACHINE FLAME CUTS.

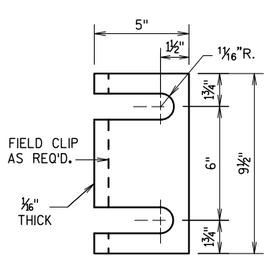
ALL MATERIAL EXCEPT ANCHORAGE DETAIL NO. 10 SHALL BE GALVANIZED AFTER FABRICATION.

ALL MATERIAL USED IN FABRICATION SHALL BE MADE FROM MATERIALS CONFORMING TO ASTM DESIGNATION A709 GRADE 36 UNLESS NOTED OTHERWISE.

FILL BOLT SLOT OPENINGS IN POST SHIMS & PLATE NO. 3 WITH NON-STAINING GRAY NON-BITUMINOUS JOINT SEALER.

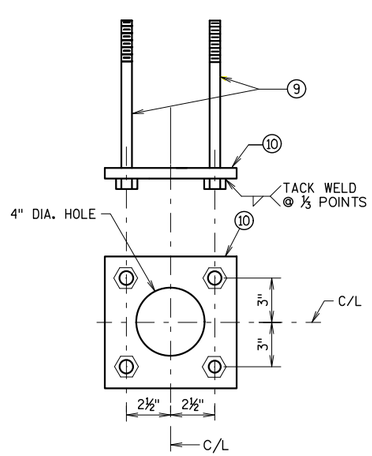
AT EXPANSION SLOTS IN RAIL AND CHANNEL MEMBERS, TIGHTEN BOLTS, BACK OFF ONE HALF TURN AND BURR THREADS. RAIL MEMBERS SHALL BE LAPPED IN THE DIRECTION OF TRAFFIC AND THE UPPER RAIL SHALL LAP THE LOWER RAIL.

STEEL POST SHIMS MAY BE USED UNDER POSTS WHERE REQ'D. FOR ALIGNMENT.

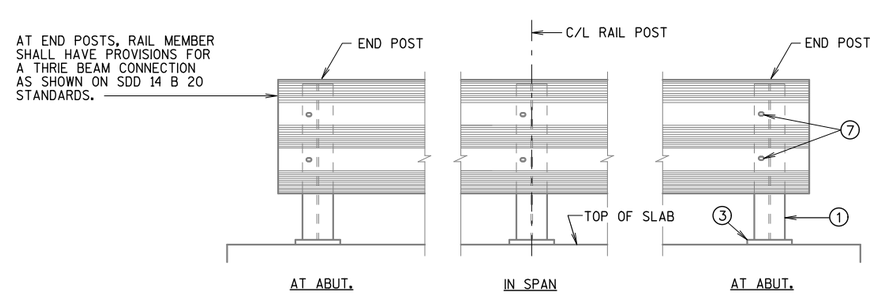


PROPOSED POST SHIM DETAIL

(4 PER POST)



PROPOSED ANCHORAGE DETAIL



ELEVATION

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

STRUCTURE B–30–654

DRAWN BY PKF PLANS CK'D. BH

RAILING REPAIR DETAILS

SHEET 3 OF 3

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Notes

Wisconsin Department of Transportation

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