

PROJECT ID: 3834-06-70

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 =



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

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

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

PLAN OF PROPOSED IMPROVEMENT

BURLINGTON ROAD

RACINE CO LINE - IH 94 W FRONTAGE RD

STH 142
KENOSHA COUNTY

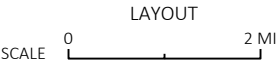
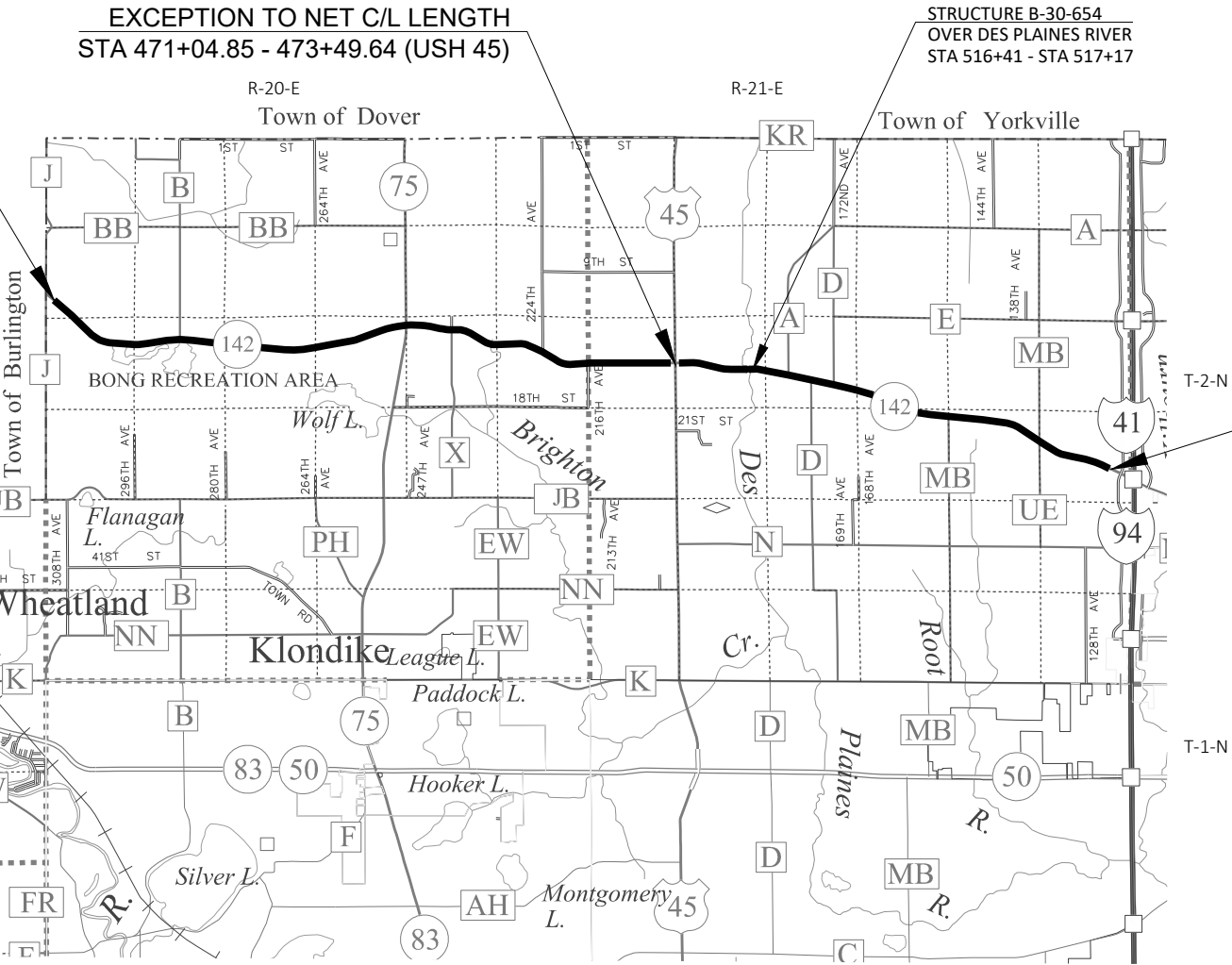
STATE PROJECT NUMBER
3834-06-70

STATE PROJECT	FEDERAL PROJECT	
	PROJECT	CONTRACT
3834-06-70		

TRANS 220 PROJECT PLAN FOR
DESIGN OF UTILITY FACILITY
ALTERATIONS OR RELOCATIONS
APRIL 15, 2020

BEGIN PROJECT 3834-06-70

STA 92+18.17
Y =155,729.84
X =531,329.84



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)

END PROJECT
STA 715+97.28

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: _____
(Signature)

E

STANDARD ABBREVIATIONS

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

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.

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 AND FROM STA 516+42 TO STA 517+19.

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

* NOT INCLUDED WITH TRANS 220 PLANS

UTILITY CONTACTS

ATC MANAGEMENT, INC
MIKE OLSEN
ATC MANAGEMENT, INC-ELECTRICITY
801 O'KEEFE RD
PO BOX 6113
DE PERE, WI 54115-6113
PHONE: 920-338-6582
EMAIL: MOLSEN@ATCLLC.COM

AT&T WISCONSIN
MIKE VANBOVEN
AT&T WISCONSIN-COMMUNICATION LINE
411 7TH STREET
RACINE, WI 53403
PHONE: 262-676-3958
EMAIL: MV3658@ATT.COM

PAE TEC COMMUNICATIONS
MARY FISHER
PAE TEC COMMUNICATIONS, LLC COMMUNICATION LINE
13935 BISHOPS DRIVE
BROOKFIELD, WI 53005
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EMAIL: MARY.B.FISHER@WINDSTREAM.COM

WEST SHORE PIPE LINE COMPANY
DAVID JONES
WEST SHORE PIPE LINE-GAS/PETROLEUM
FIVE TEK PARK, 9999 HAMILTON BLVD
BREINIGSVILLE, PA 18031
PHONE: 610-904-4409
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CHARTER COMMUNICATIONS
NEAL LONG
CHARTER COMMUNICATIONS COMMUNICATION LINE
1320 N DR MARTIN LUTHER KING JR DR
MILWAUKEE, WI 53212
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EMAIL: NEAL.LONG@CHARTER.COM

WISCONSIN DEPARTMENT OF TRANSPORTATION
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WISCONSIN SIGNAL
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CITY OF KENOSHA
BRIAN CATER
CITY OF KENOSHA - ROAD FACILITY
625 52ND STREET
ROOM 305
KENOSHA, WI 53140
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EMAIL: BCATER@KENOSHA.ORG

CITY OF KENOSHA
CURT CZARNECKI
CITY OF KENOSHA - WATER UTILITY - WATER
4401 GREEN BAY ROAD
KENOSHA, WI 53144
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EMAIL: CCZARNECKI@KENOSHA.ORG

CITY OF KENOSHA
CURT CZARNECKI
CITY OF KENOSHA - WATER UTILITY - SEWER
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PHONE: 262-653-4300
EMAIL: CCZARNECKI@KENOSHA.ORG

TDS TELECOM
MATTEW SCHULTE
TDS TELECOM - COMMUNICATION LINE
16924 WEST VICTOR ROAD
NEW BERLIN, WI 53151
PHONE: 262-754-3063
EMAIL: MATT.SCHULTE@TDSTELECOM.COM

WE ENERGIES
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WE ENERGIES - GAS
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WE ENERGIES
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FRONTIER COMMUNICATIONS OF WI LLC
RUSS RYAN
FRONTIER COMMUNICATIONS OF WI LLC - COMMUNICATION LINE
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EMAIL: RUSSELL.W.RYAN@FTR.COM

NORTH SHORE GAS COMPANY
UTILITY RELOCATIONS
NORTH SHORE GAS COMPANY - GAS/PETROLEUM
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OTHER CONTACTS

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WISDOT PROJECT MANAGER
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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
JOHN WASHBURN
SEWRPC (KENOSHA COUNTY SURVEYOR)
W239 N1812 ROCKWOOD DRIVE
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WAUKESHA, WI 53187
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WISDNR CONTACT
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DNR LIAISON
141 NW BARSTOW ST ROOM 180
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PHONE: 262-574-2141
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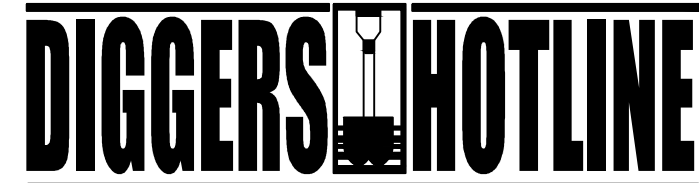
TOWN OF PARIS
JOHN HOLLOWAY
TOWN OF PARIS CHAIRMAN
15404 BURLINGTON ROAD
UNION GROVE, WI 53182
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KENOSHA COUNTY SHERIFF
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RICHARD BONG STATE RECREATION AREA
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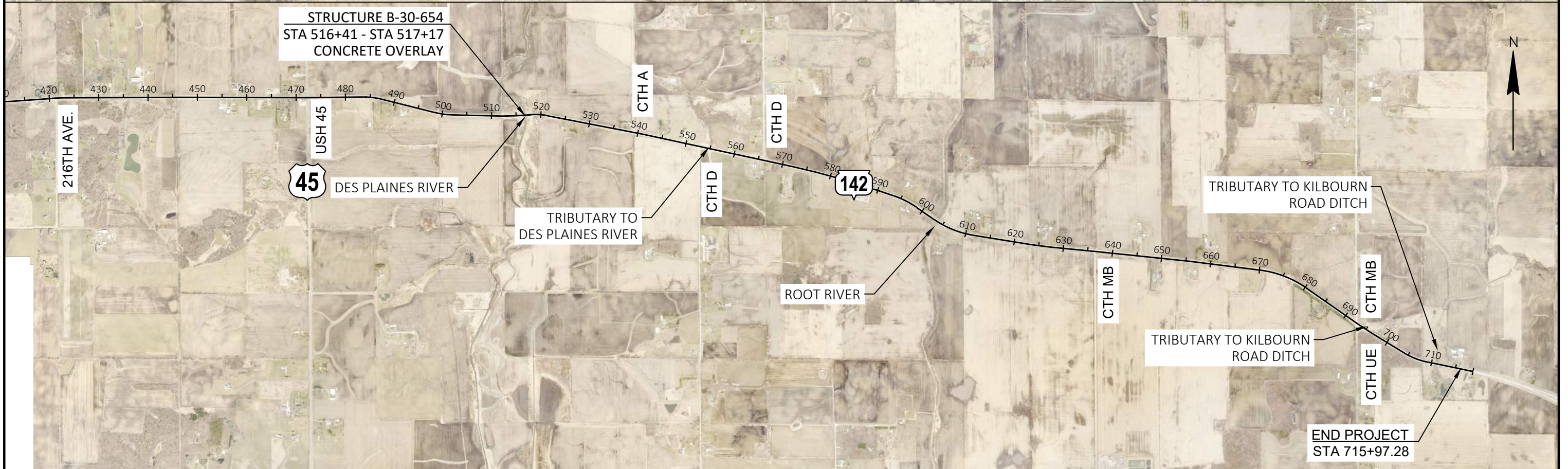
TOWN OF PARIS FIRE AND RESCUE DEPARTMENT
ROLAN IWEN
TOWN OF PARIS FIRE CHIEF
16607 BURLINGTON ROAD
UNION GROVE, WI 53182
PHONE: 262-498-2593
EMAIL: TOWNOFPARIS@WI.NET

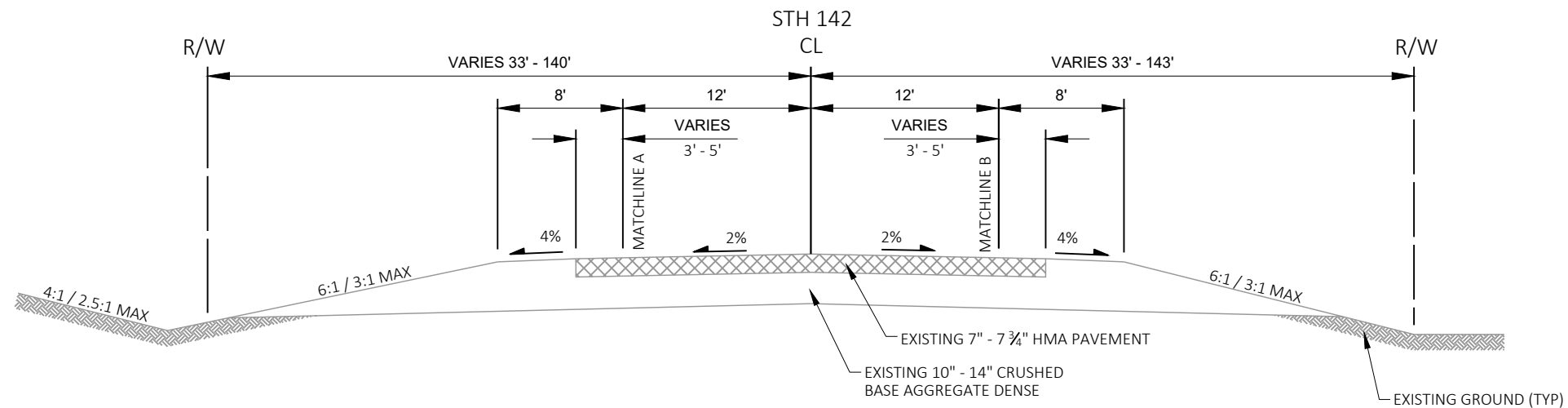
KANSASVILLE FIRE AND RESCUE DEPARTMENT
SCOTT REMER
KANSASVILLE FIRE CHIEF
23730 DURAND AVENUE
KANSASVILLE, WI 53139
PHONE: 262-878-3811



Dial 811 or (800)242-8511

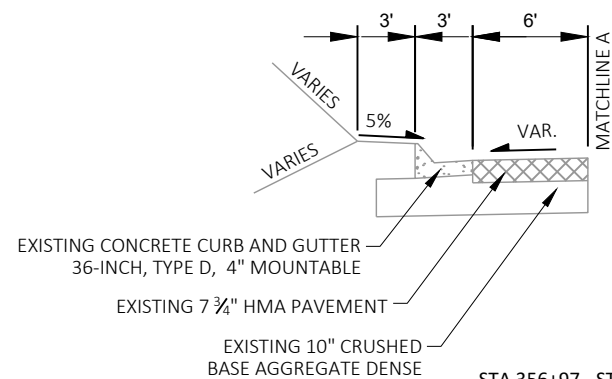
www.DiggersHotline.com





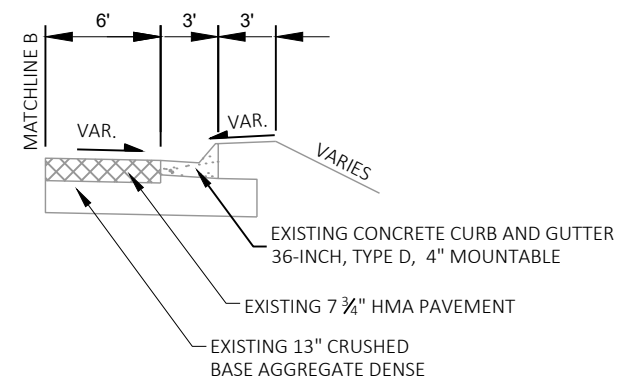
**EXISTING TYPICAL SECTION
STH 142**

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



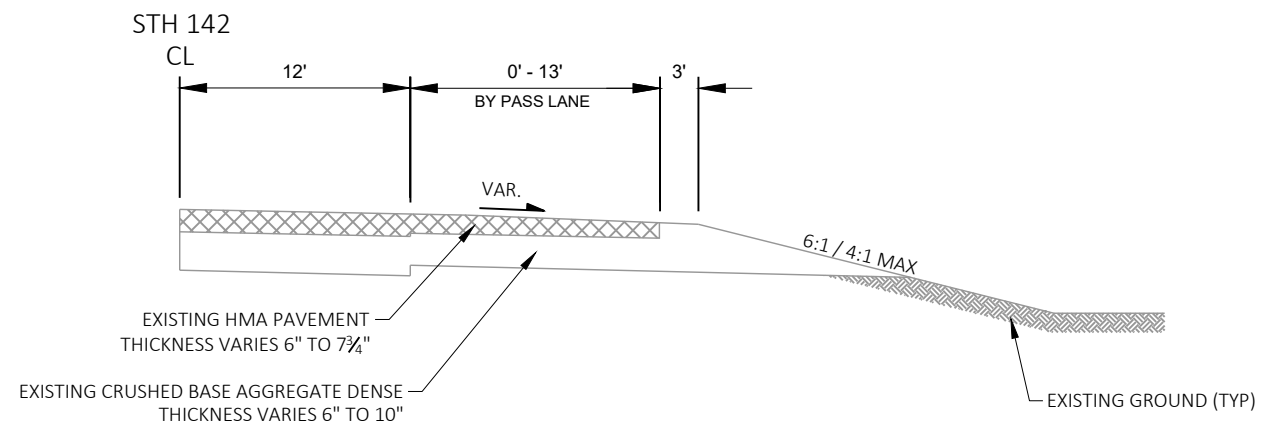
EXISTING CONCRETE CURB AND GUTTER
36-INCH, TYPE D, 4" MOUNTABLE
EXISTING 7 3/4" HMA PAVEMENT
EXISTING 10" CRUSHED
BASE AGGREGATE DENSE

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



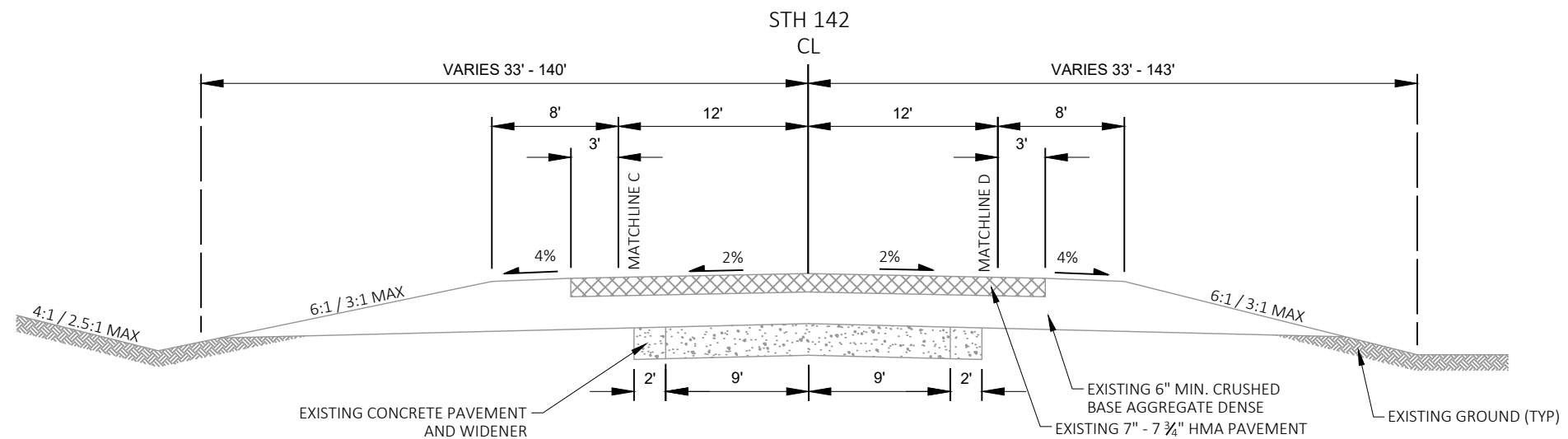
EXISTING CONCRETE CURB AND GUTTER
36-INCH, TYPE D, 4" MOUNTABLE
EXISTING 7 3/4" HMA PAVEMENT
EXISTING 13" CRUSHED
BASE AGGREGATE DENSE

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



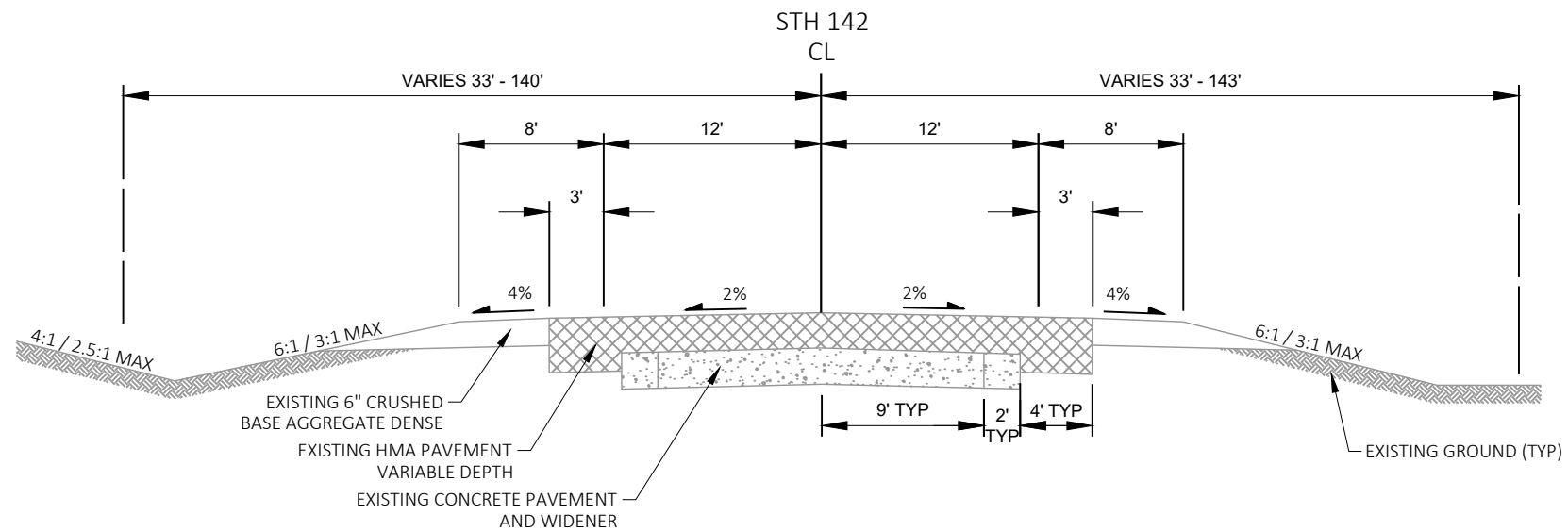
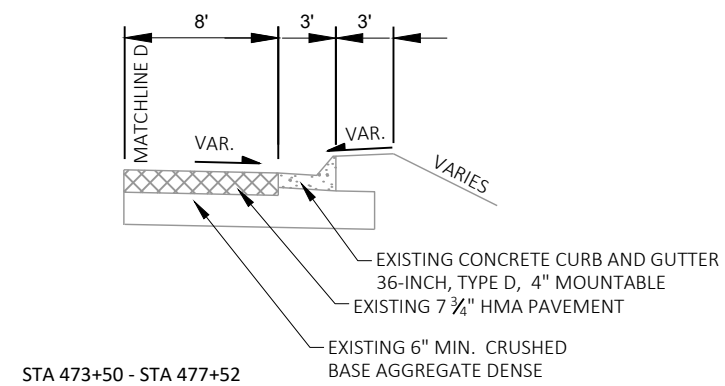
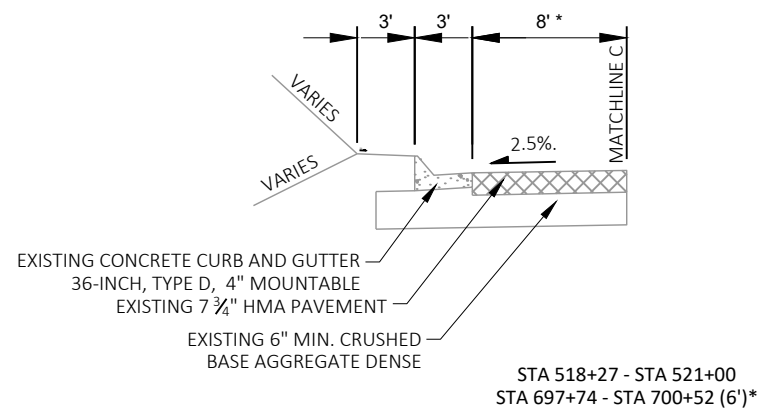
**EXISTING BY PASS LANE TYPICAL SECTION
STH 142**

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



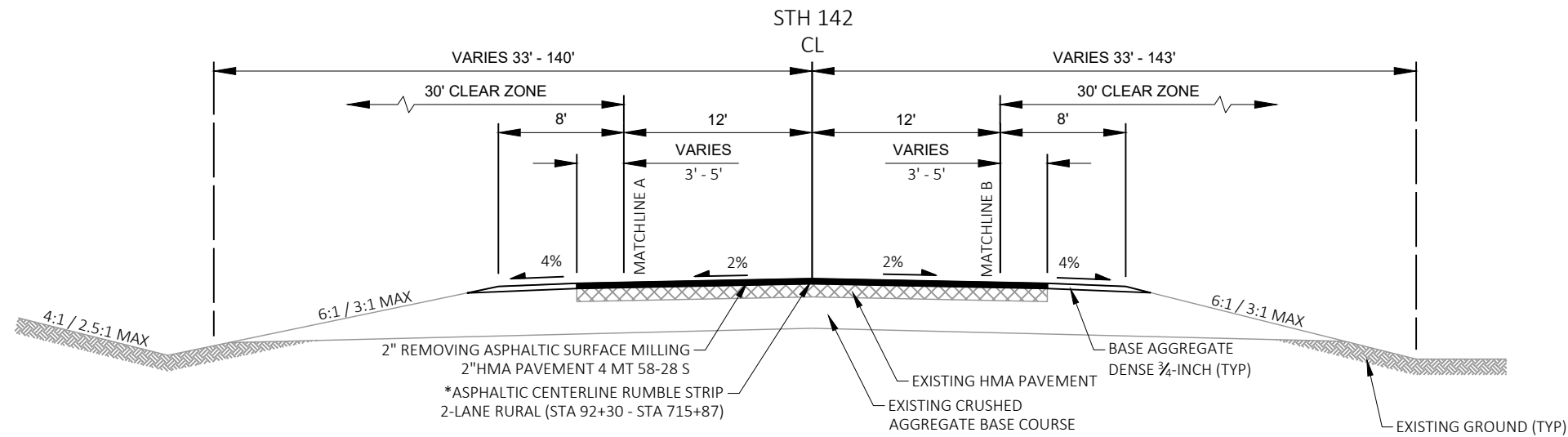
**EXISTING TYPICAL SECTION
STH 142**

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



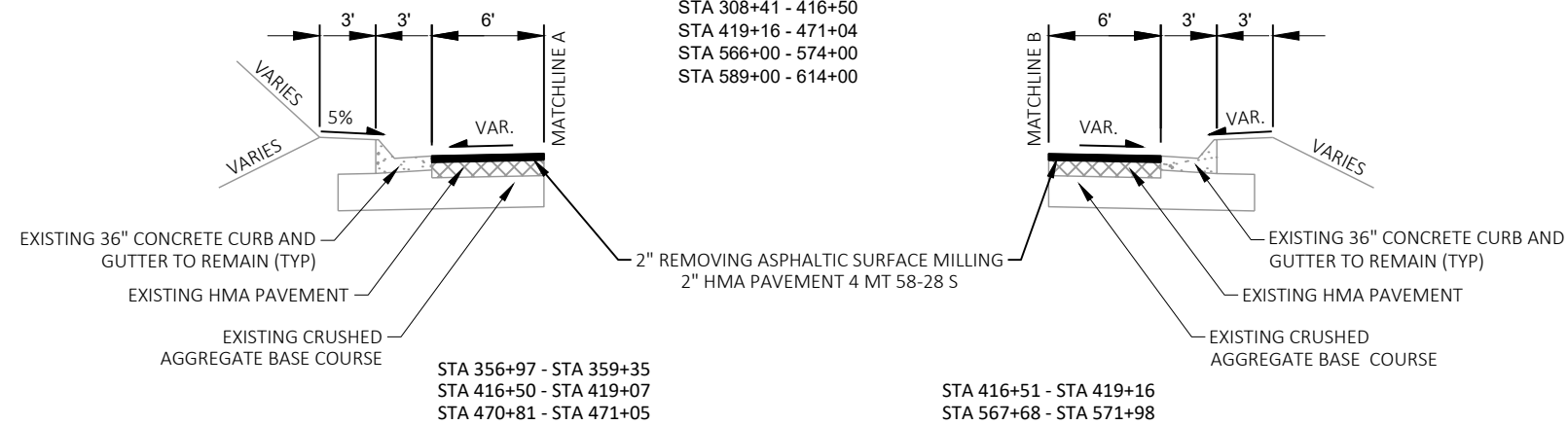
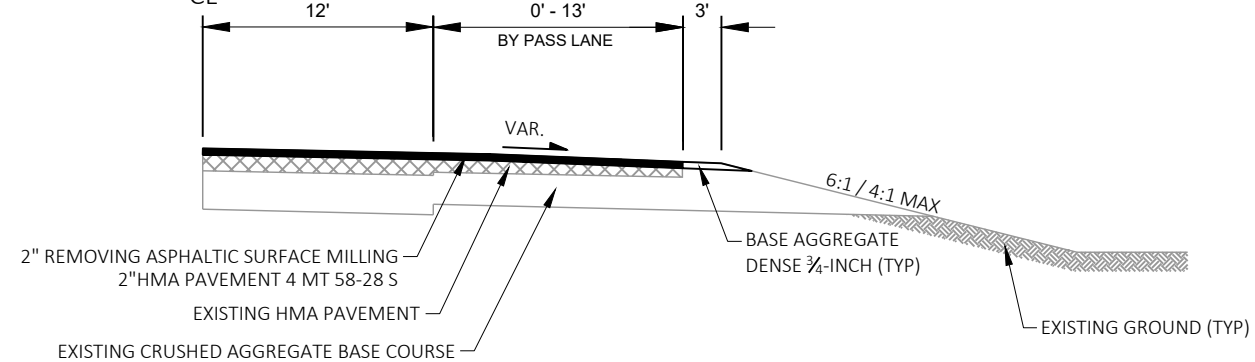
**EXISTING TYPICAL SECTION
STH 142**

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

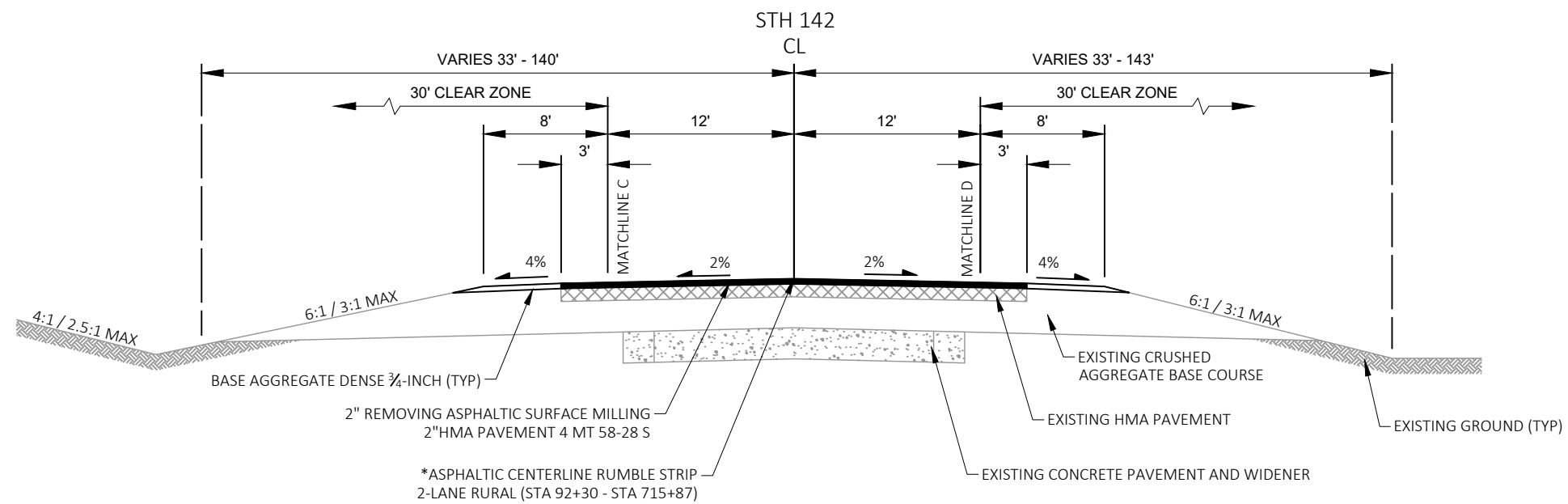
**FINISHED TYPICAL SECTION****STH 142**

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

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

**STH 142****CL****FINISHED BY PASS LANE TYPICAL SECTION****STH 142**

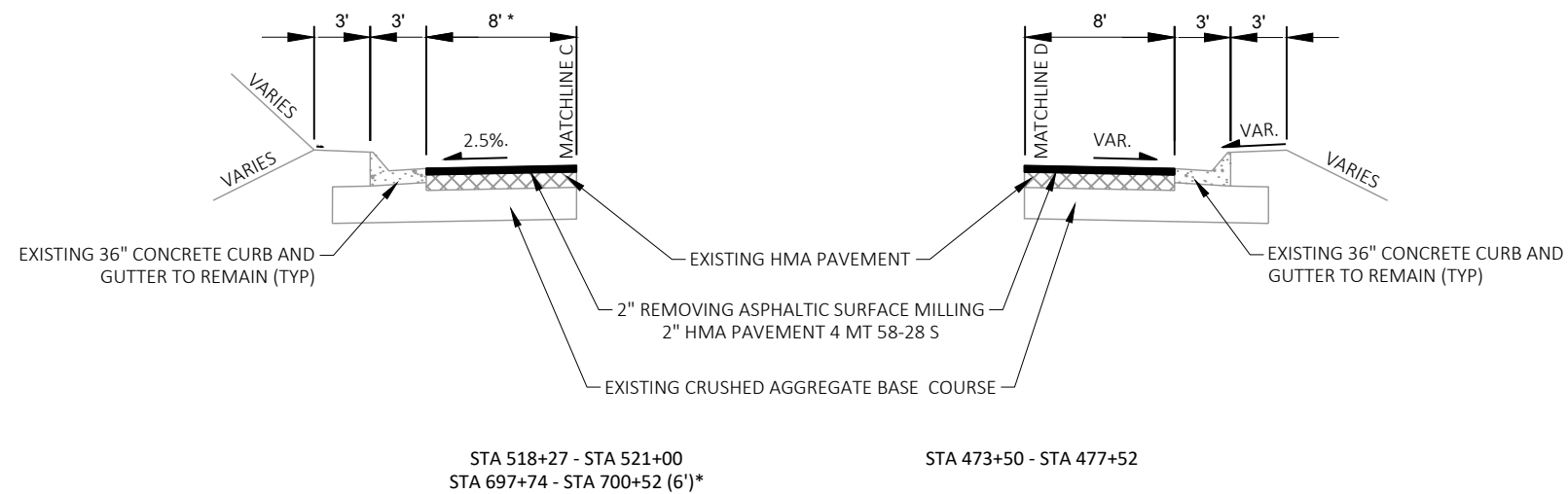
CTH B STA 172+43 - 179+75, 13' RT
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CTH A STA 536+36 - 541+89, 12' RT
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CTH D STA 563+46 - 568+61, 13' RT
CTH MB STA 633+48 - 639+47, 12' LT

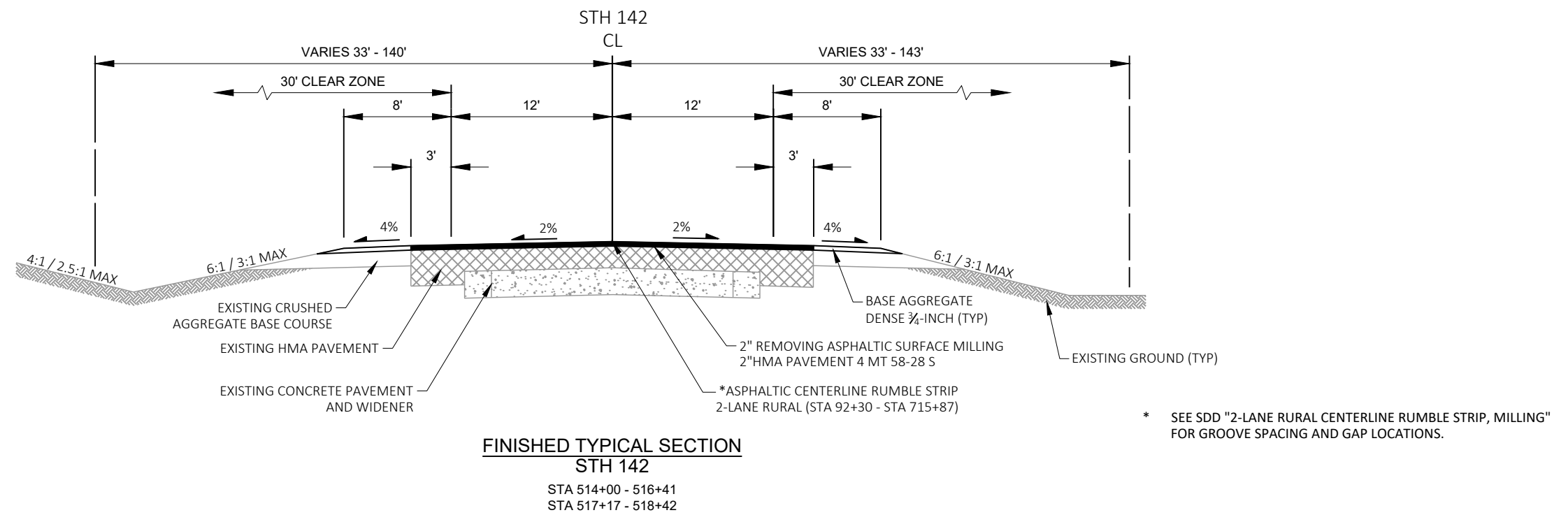


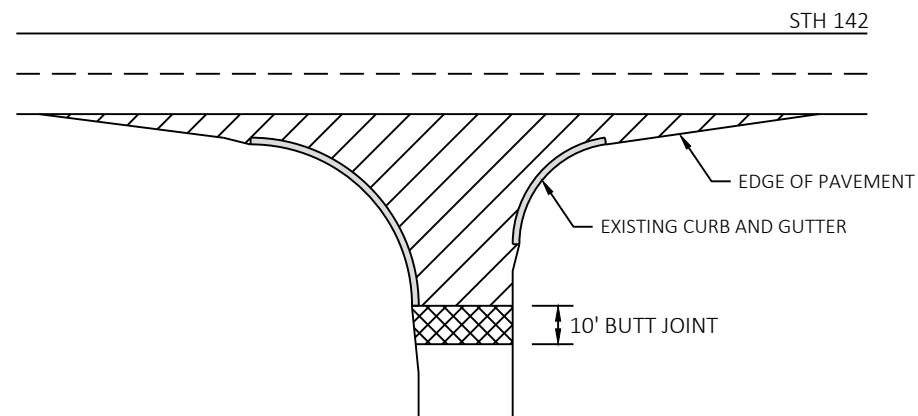
**FINISHED TYPICAL SECTION
STH 142**

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.



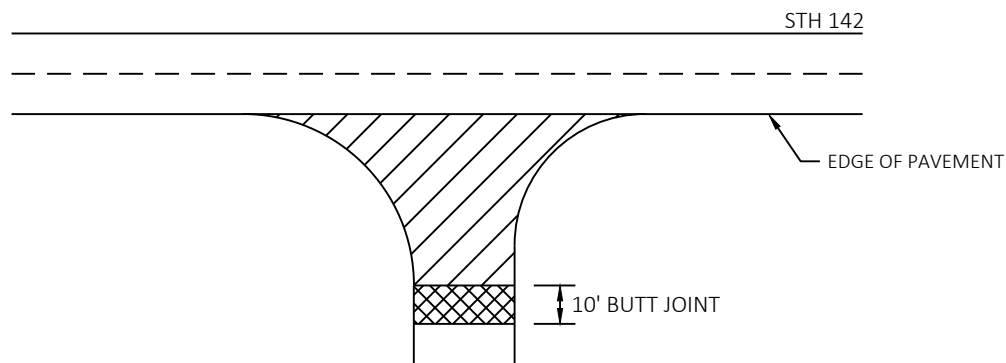




- REMOVING ASPHALTIC SURFACE MILLING
- REMOVING ASPHALTIC SURFACE BUTT JOINTS
SEE BUTT JOINT DETAIL

SIDE ROADS WITH CURB AND GUTTER

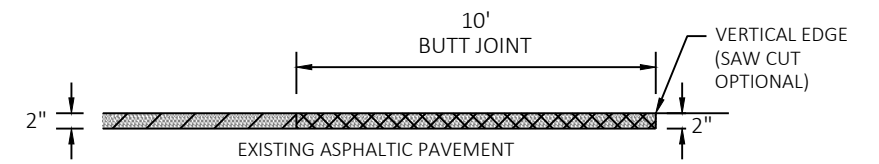
CTH B
STH 75
CTH X
224TH AVE
216TH AVE
CTH A
CTH D
CTH MB
CTH UE



- REMOVING ASPHALTIC SURFACE MILLING
- REMOVING ASPHALTIC SURFACE BUTT JOINTS
SEE BUTT JOINT DETAIL

SIDE ROADS WITHOUT CURB AND GUTTER

RICHARD BONG STATE PARK



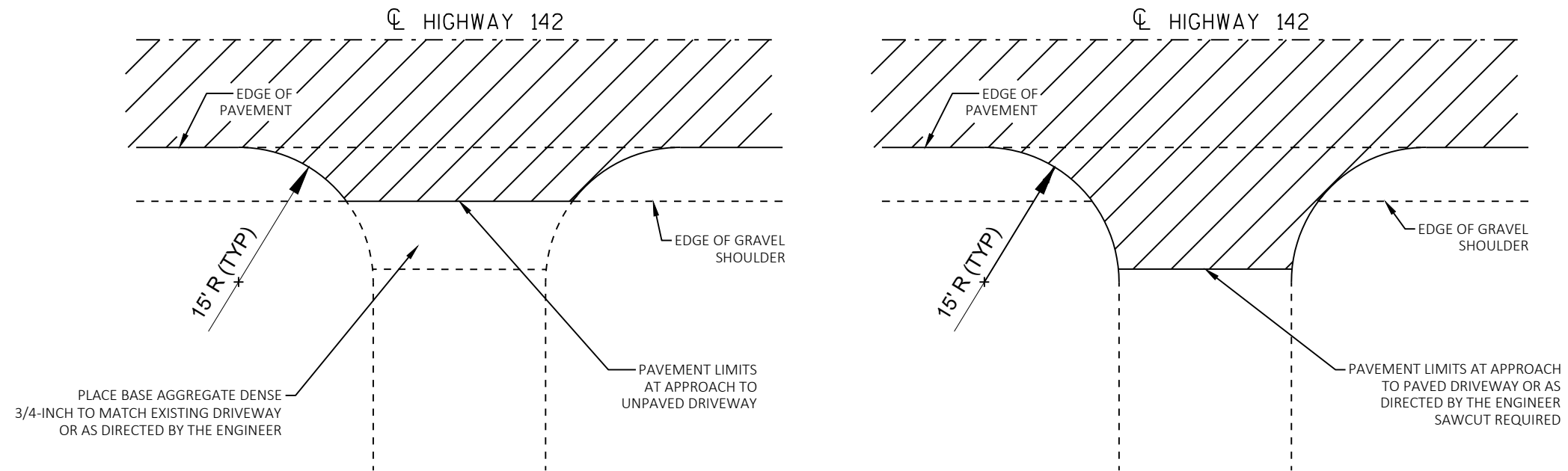
- HMA PAVEMENT
- REMOVING ASPHALTIC SURFACE MILLING
- REMOVING ASPHALTIC SURFACE BUTT JOINTS

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.



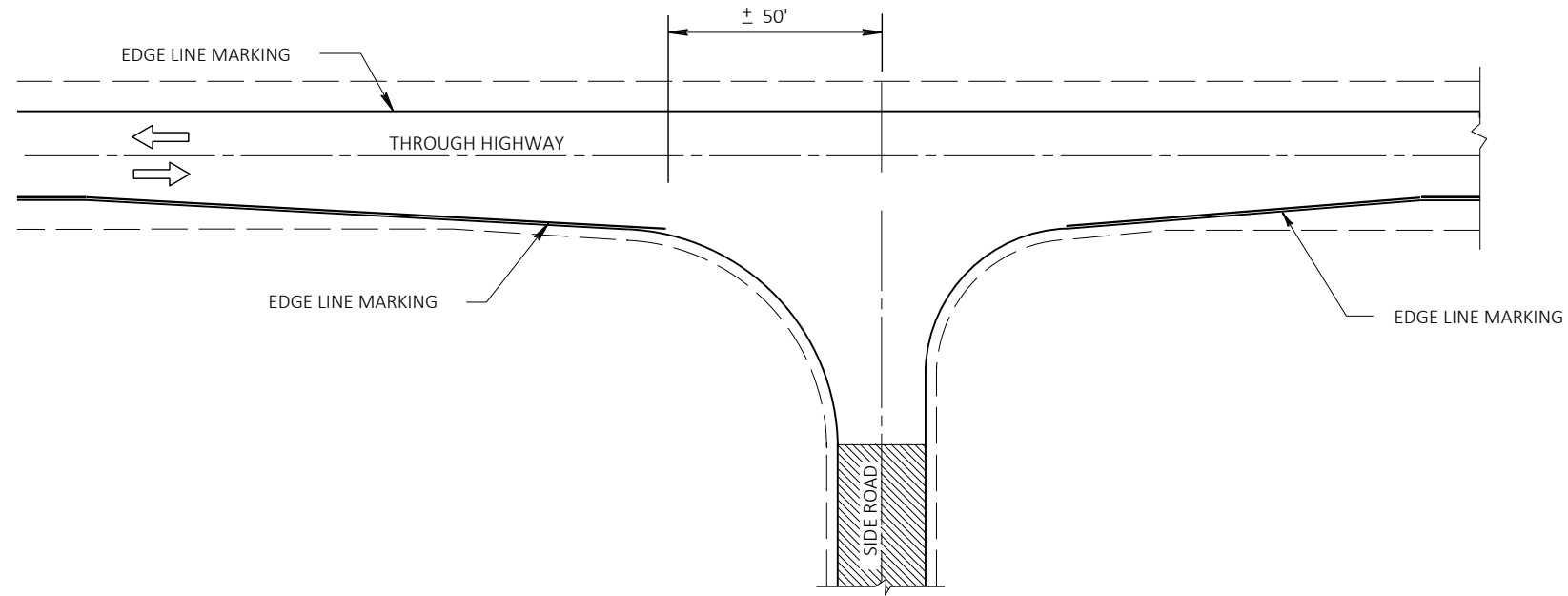
PLAN VIEW

PLAN VIEW

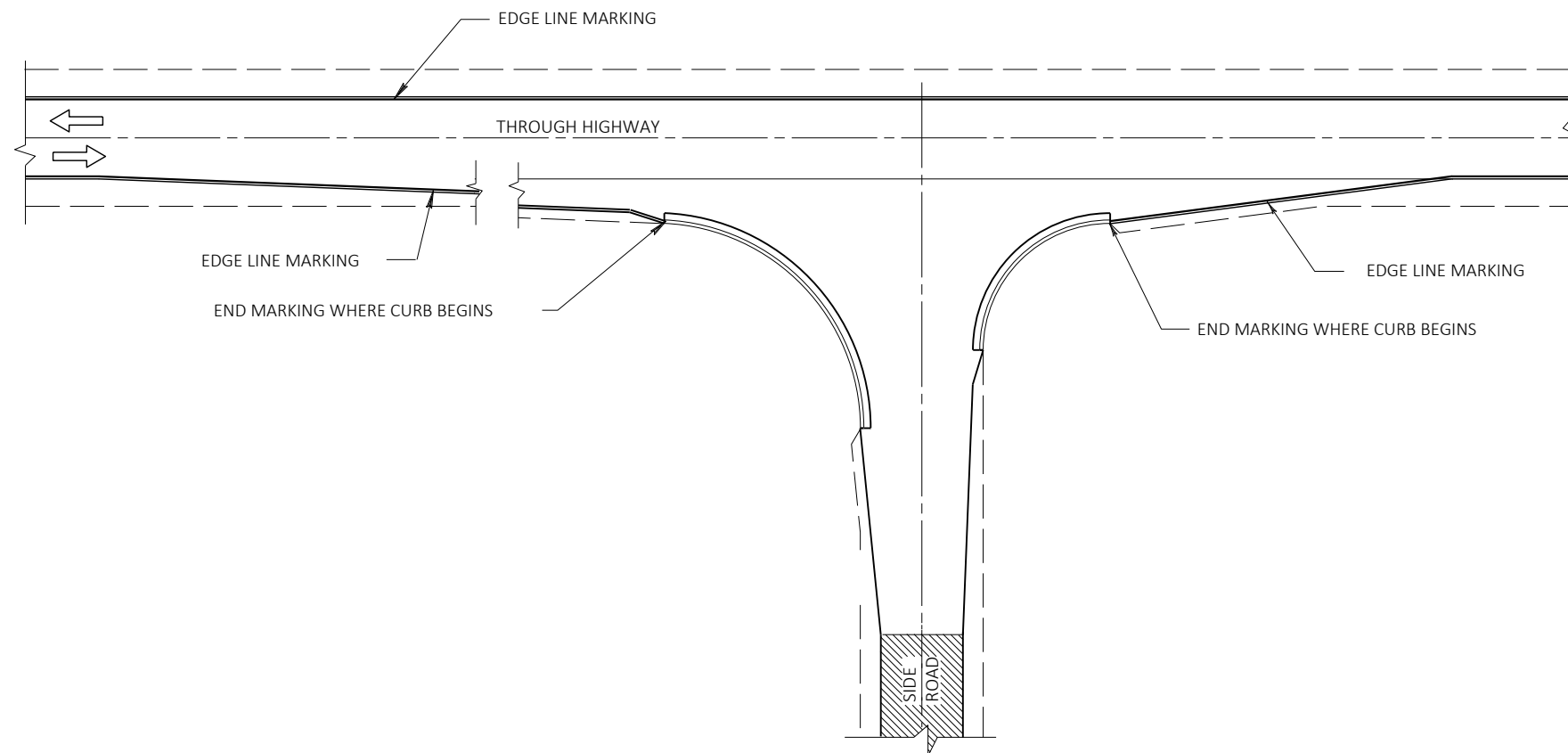
RURAL DRIVEWAY DETAIL RESURFACING LIMITS

NOTE: DRIVEWAY SURFACE TO BE REPLACED IN KIND





MINOR INTERSECTION WITHOUT CURBS
(TYPICAL MARKING)



MINOR INTERSECTION WITH CURBS
(TYPICAL MARKING)

INTERSECTION PAVEMENT MARKING DETAILS

PROJECT NO: 3834-06-70

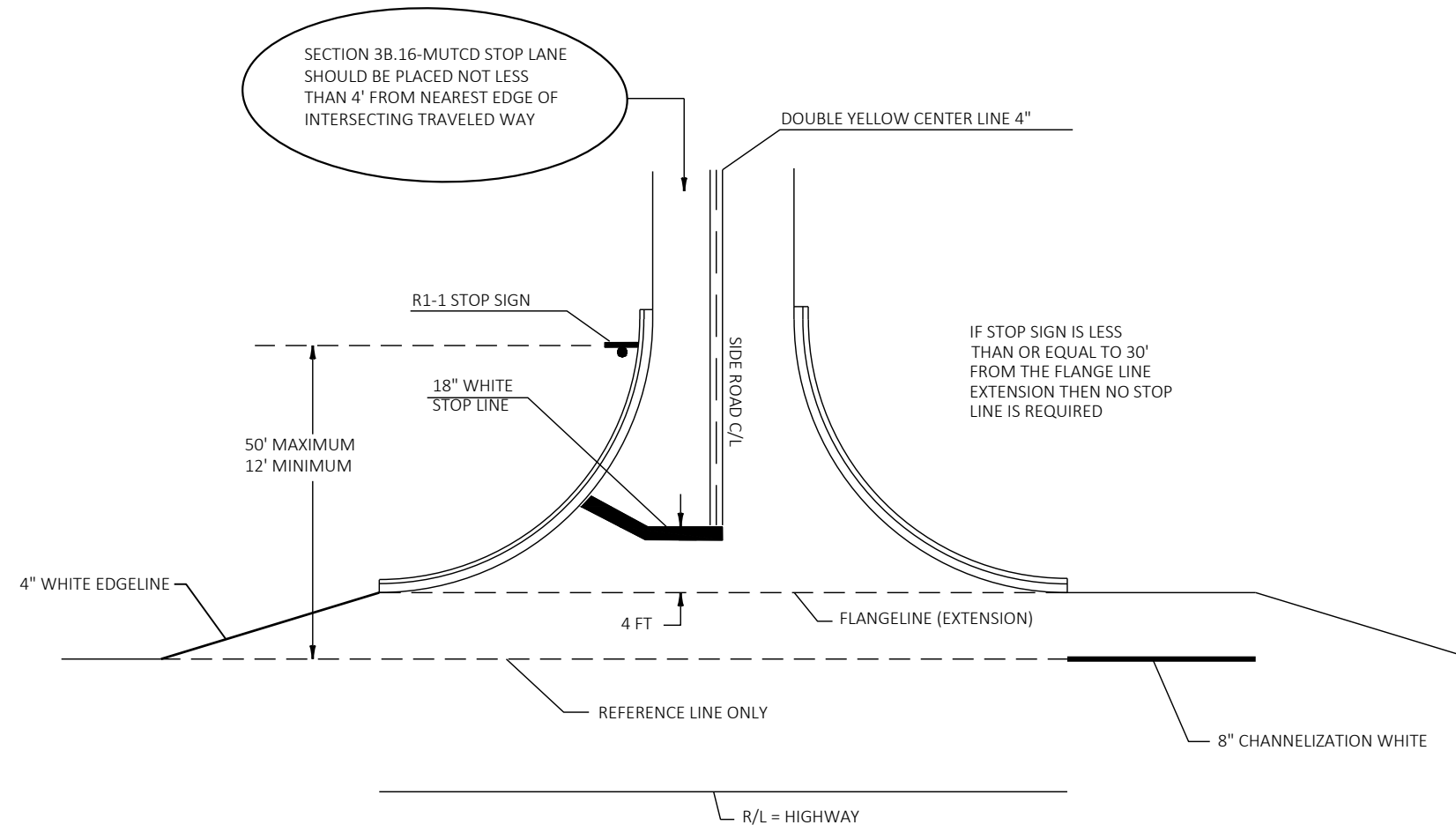
HWY: STH 142

COUNTY: KENOSHA

CONSTRUCTION DETAILS

SHEET

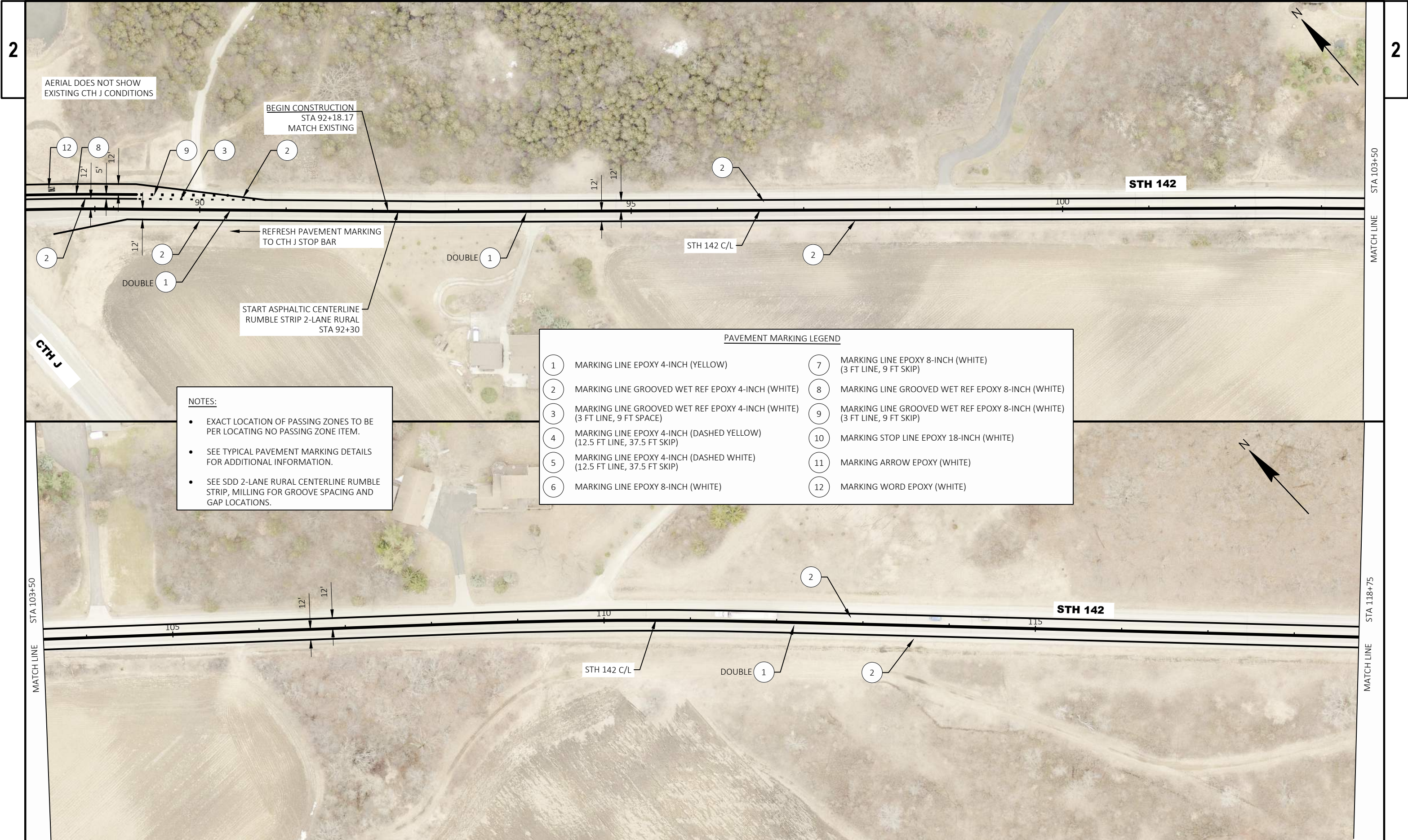
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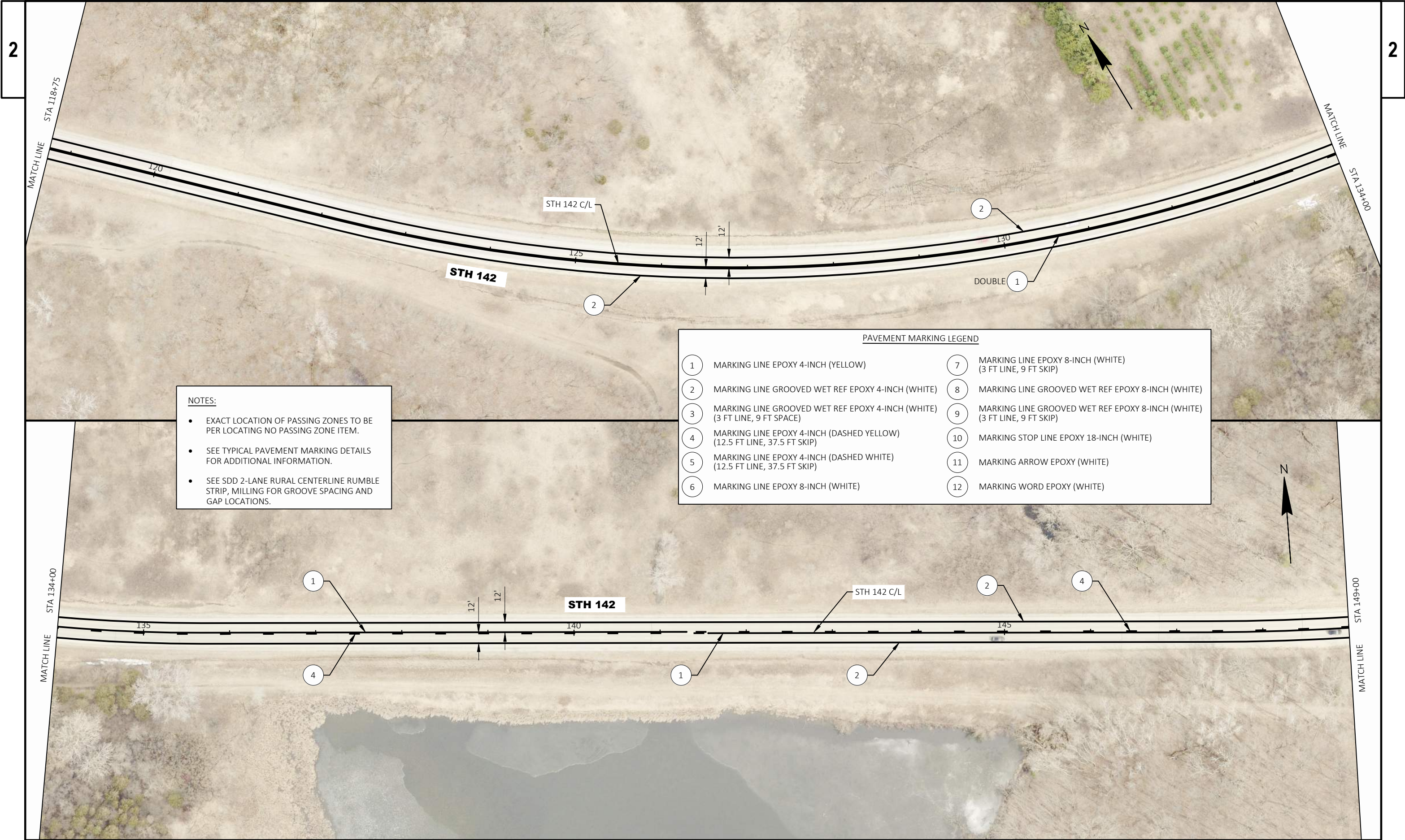


TYPICAL PAVEMENT MARKING FOR SIDEROADS WITH RIGHT TURN LANE

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

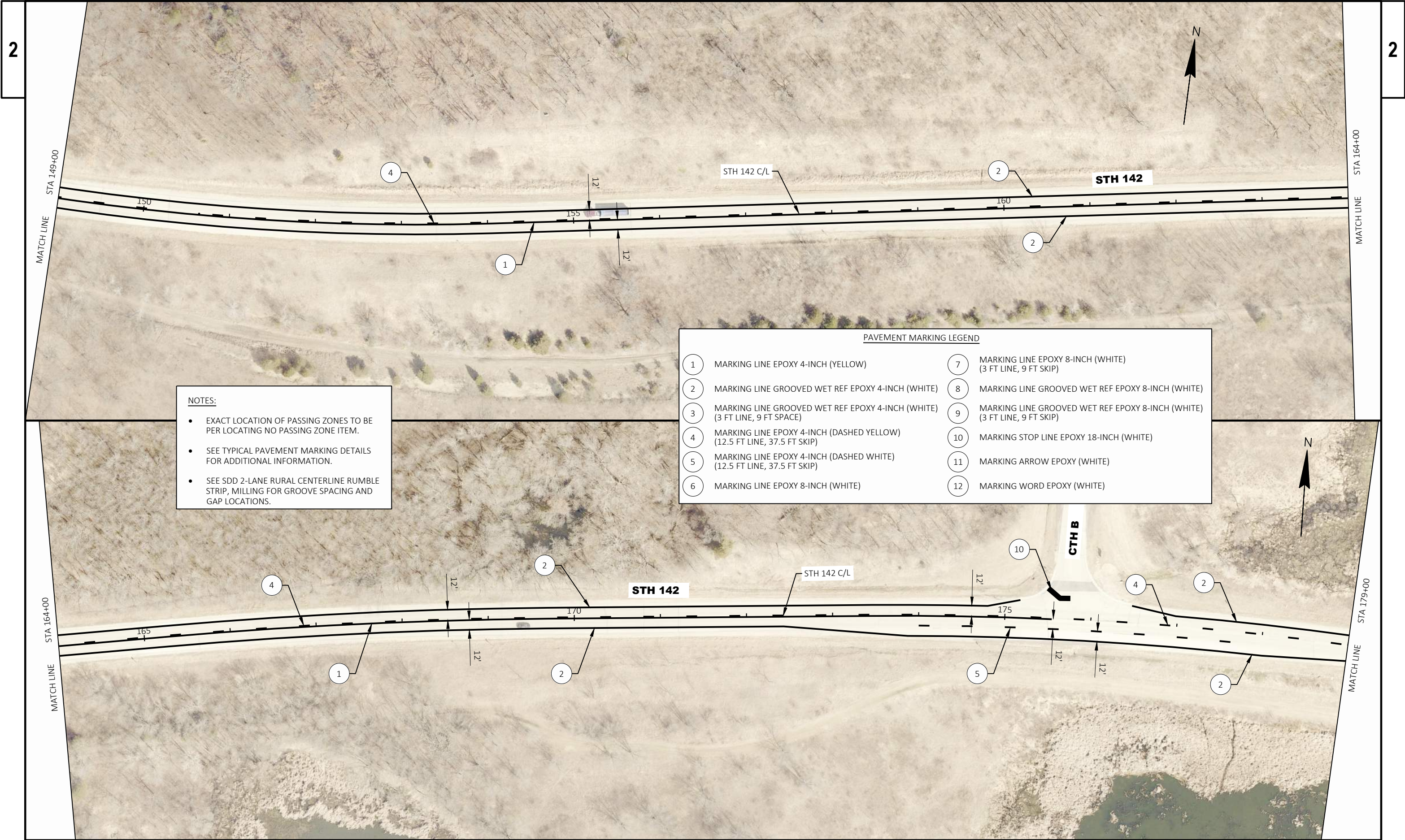
SIDEROADS PAVEMENT MARKING DETAILS





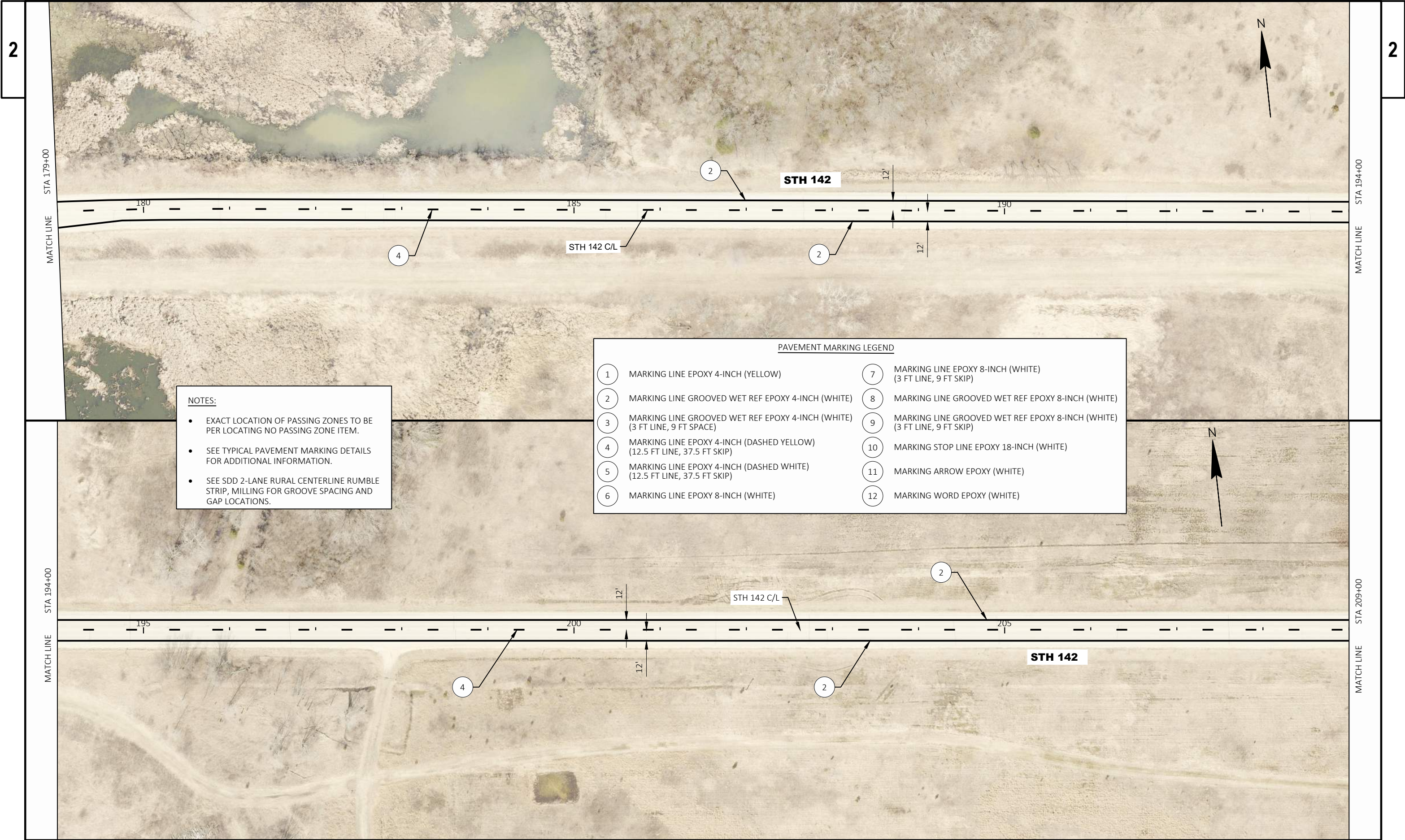
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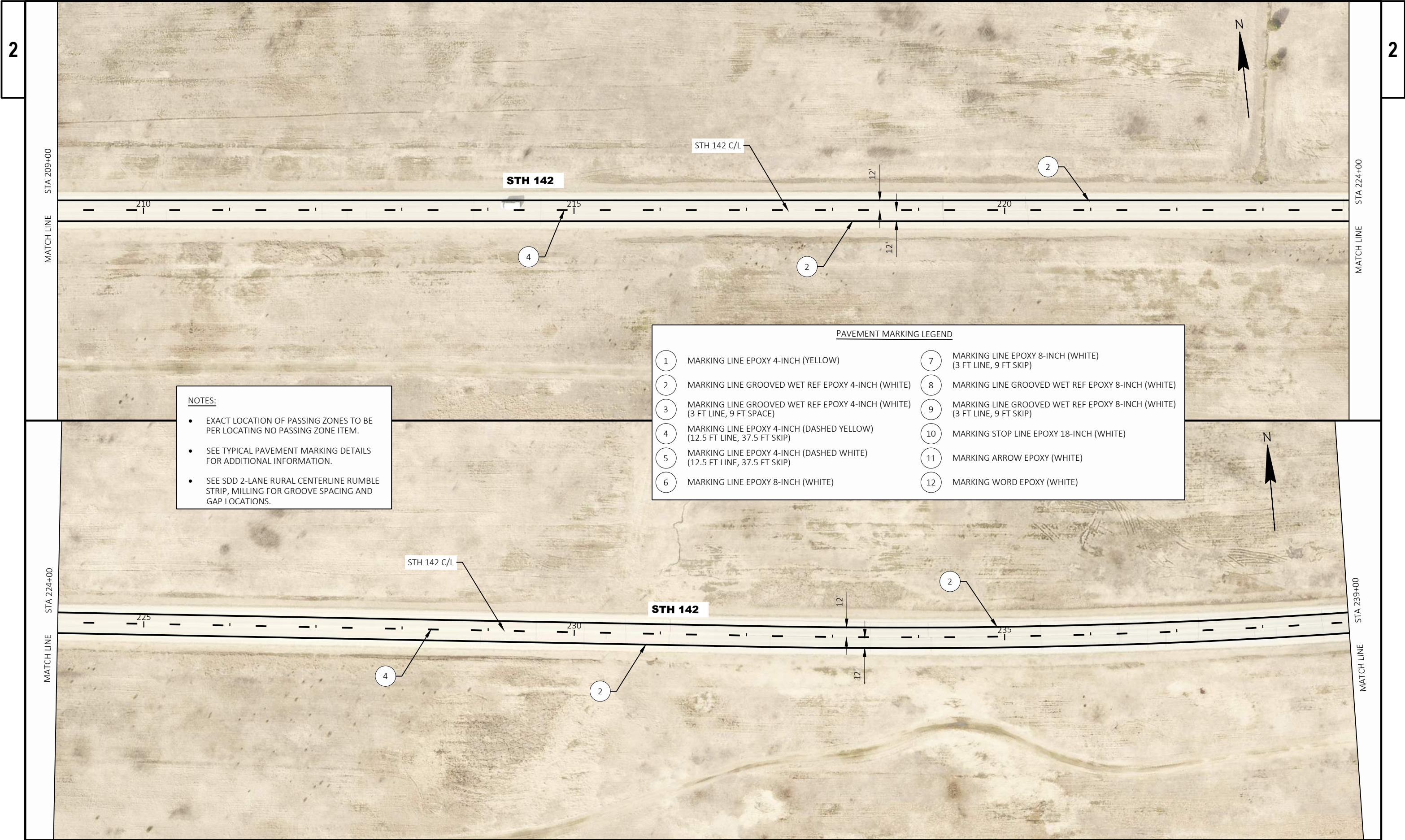
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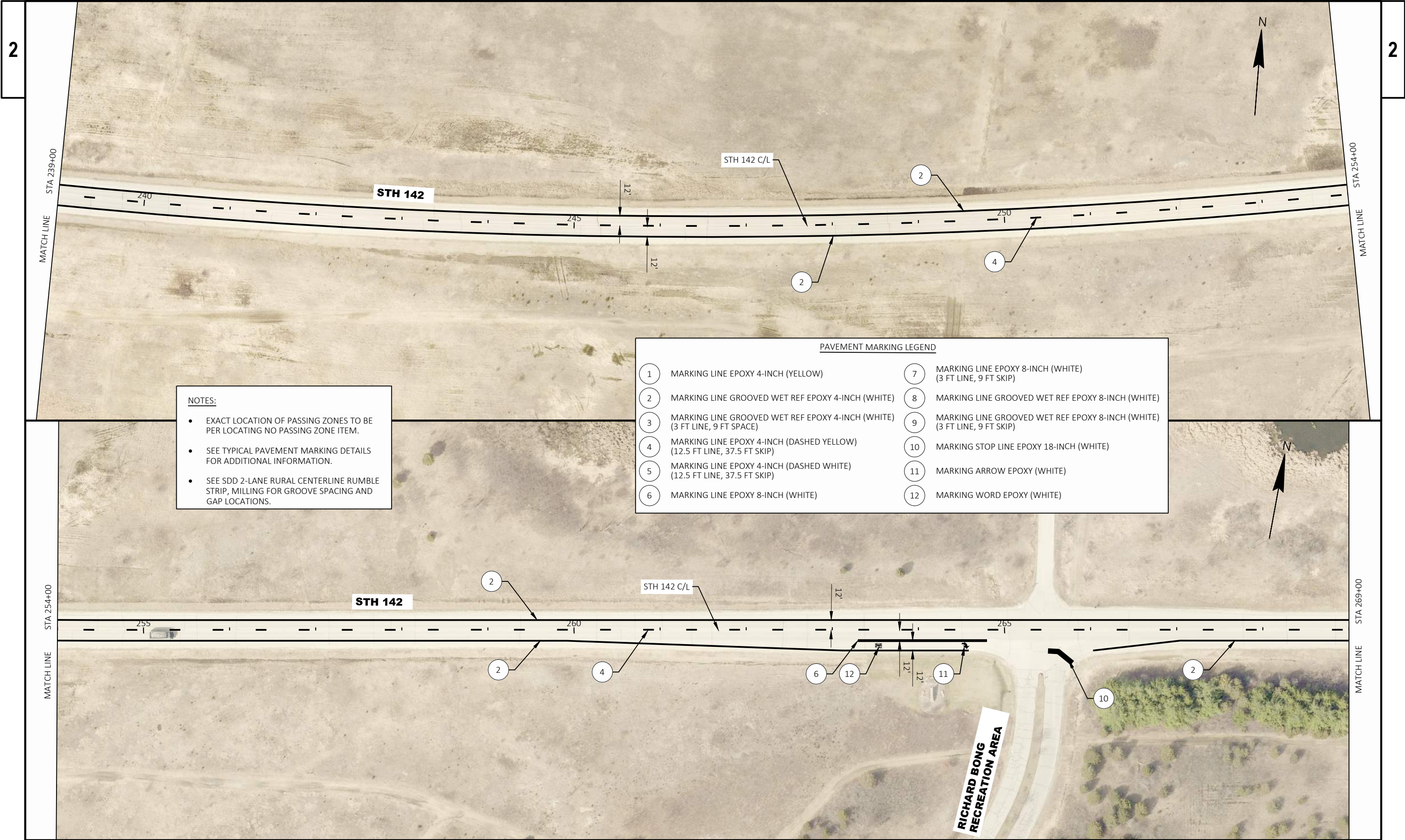




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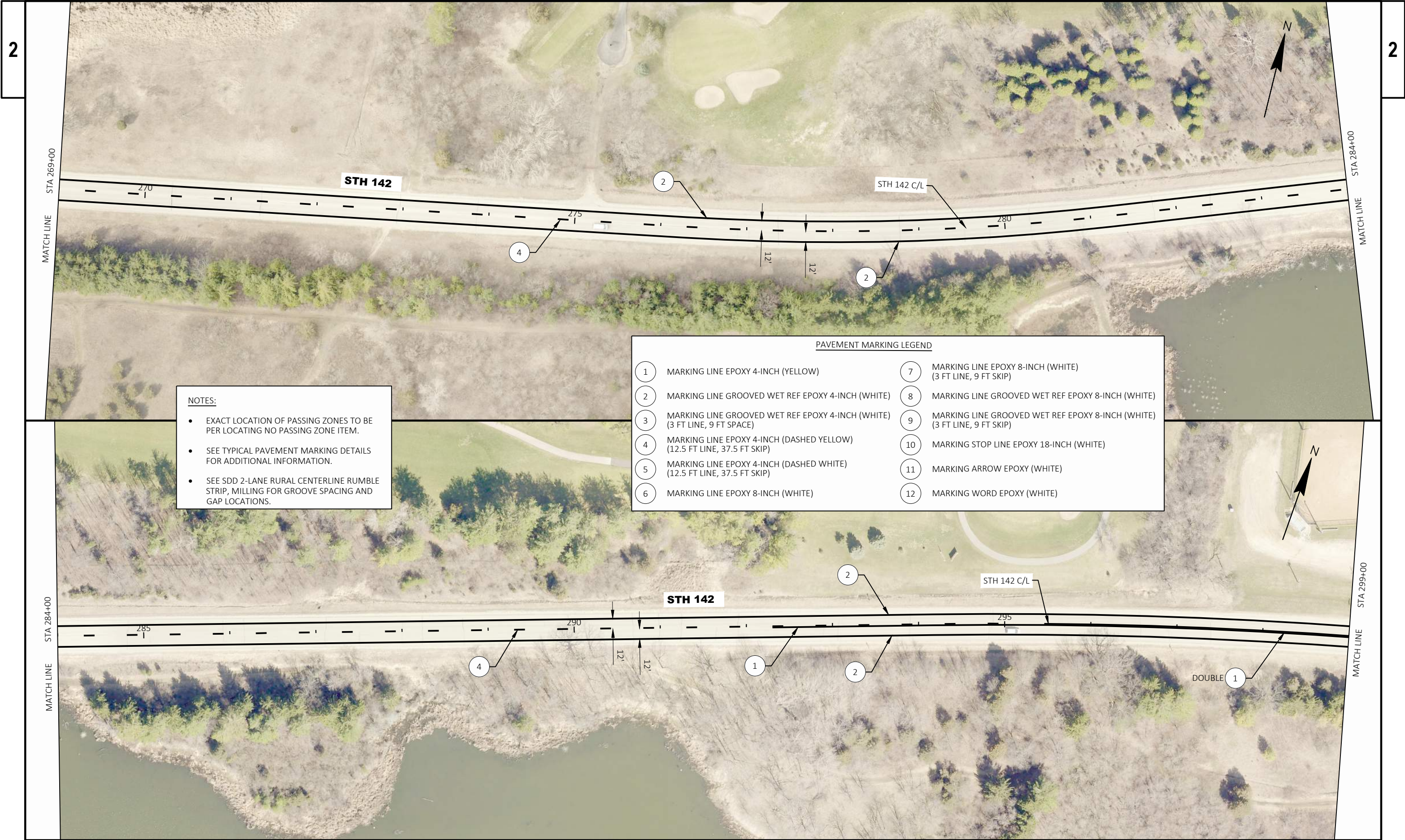
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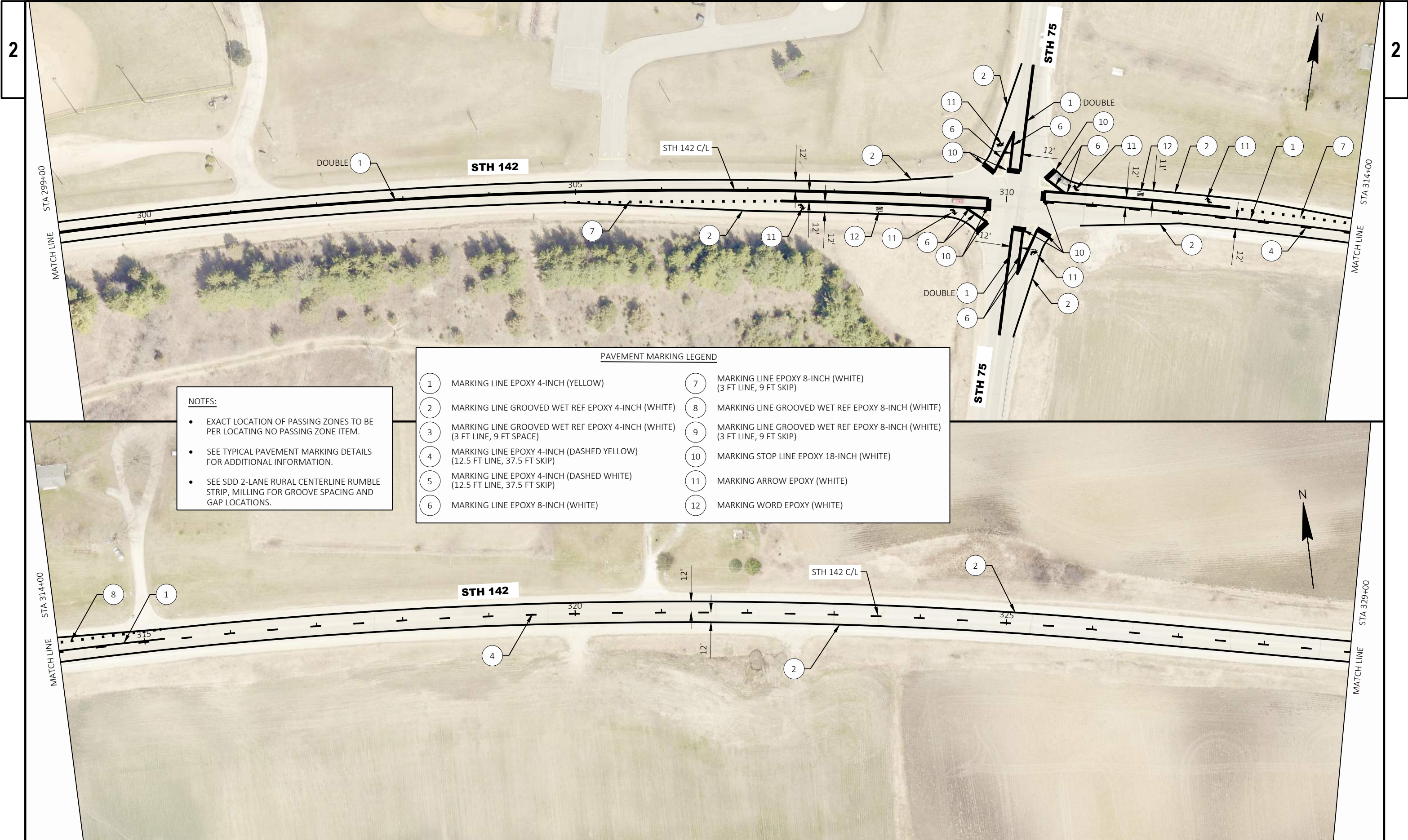
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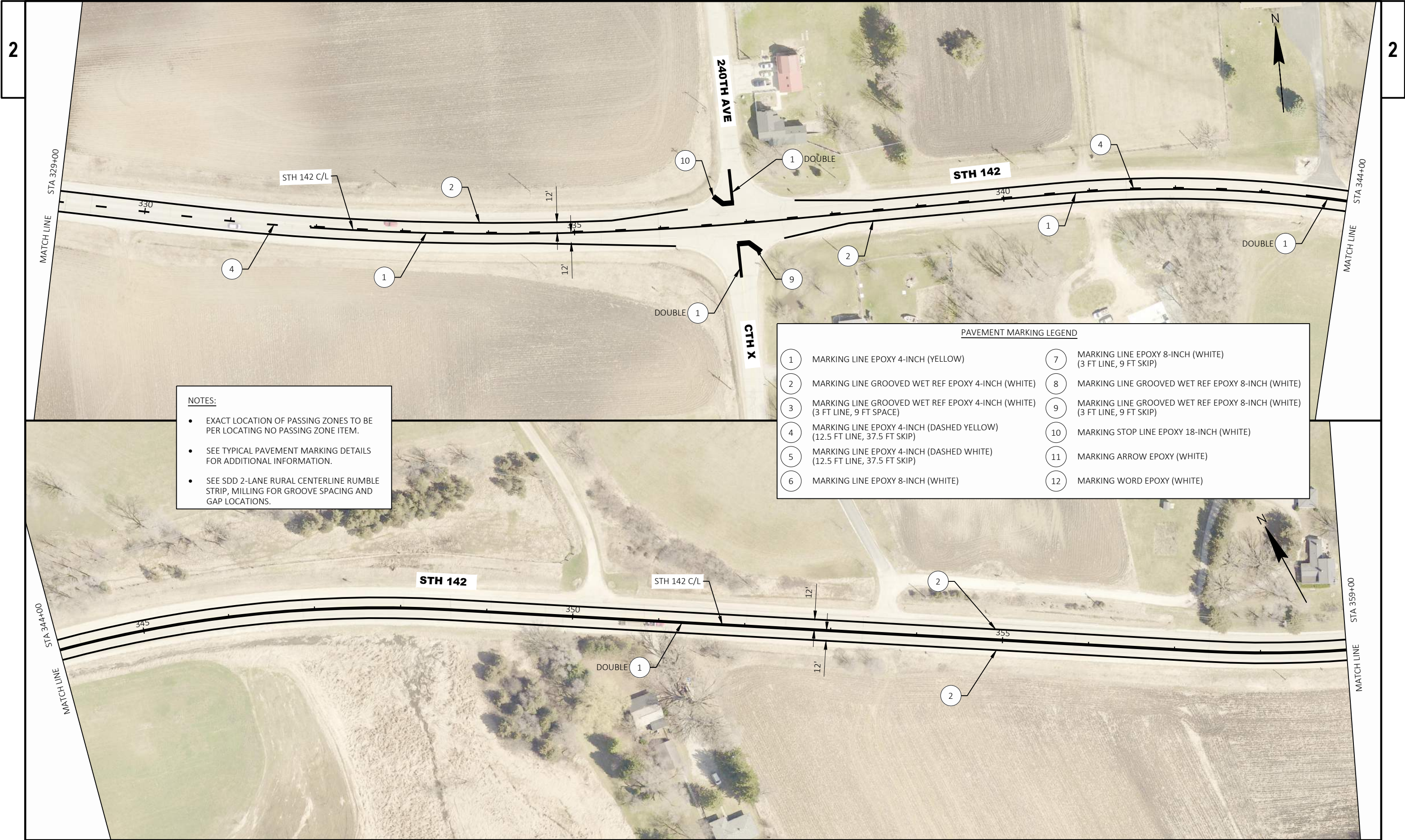
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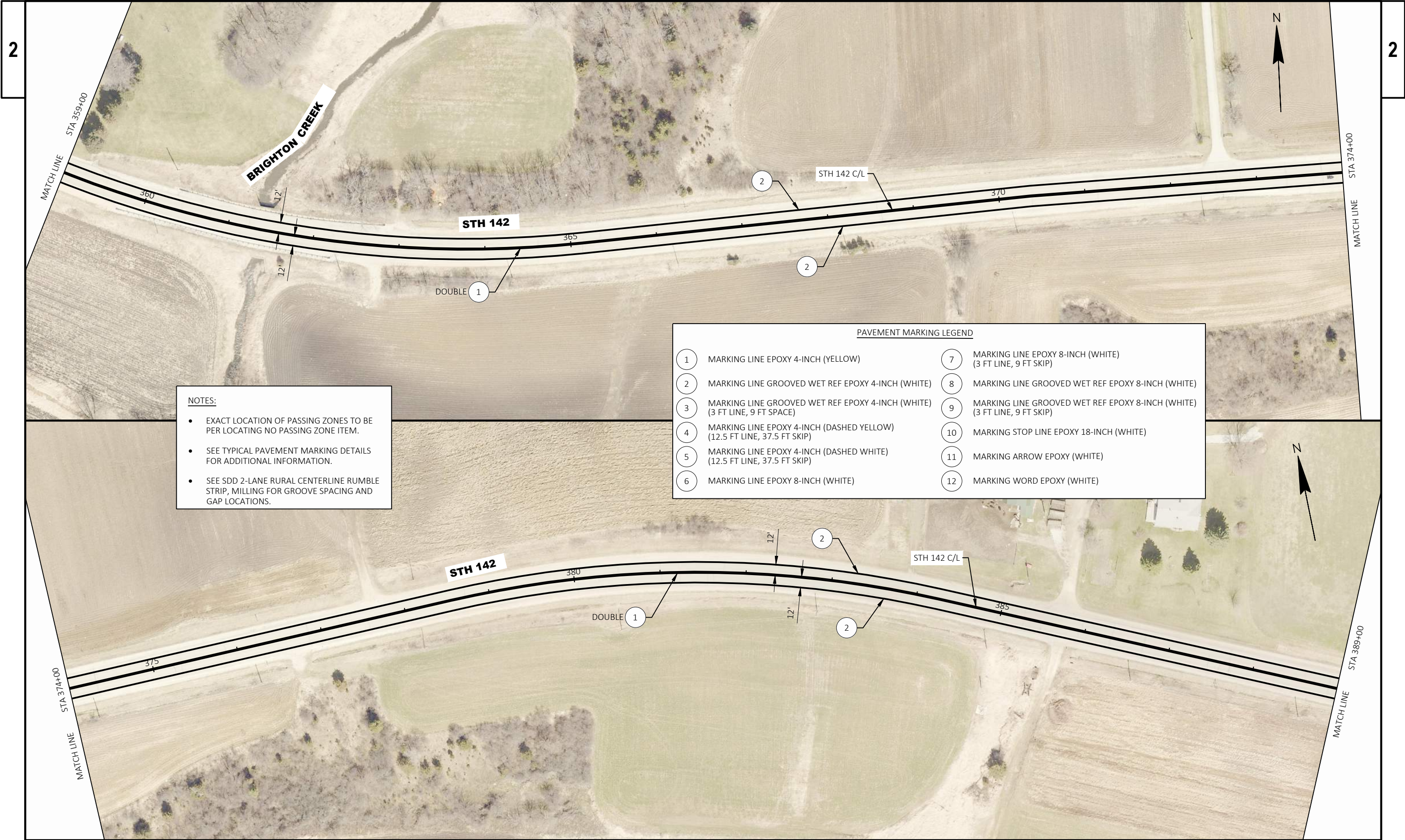
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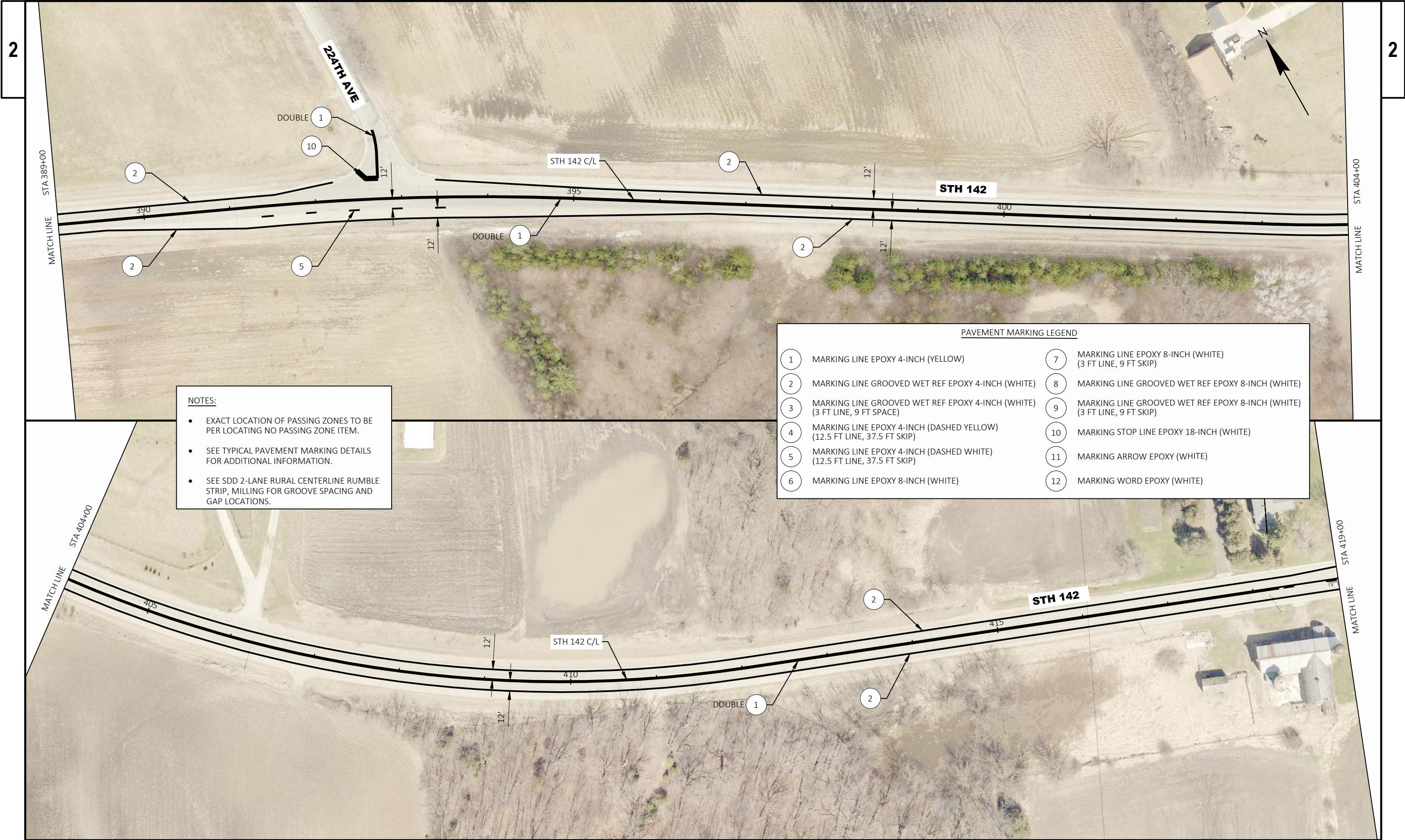
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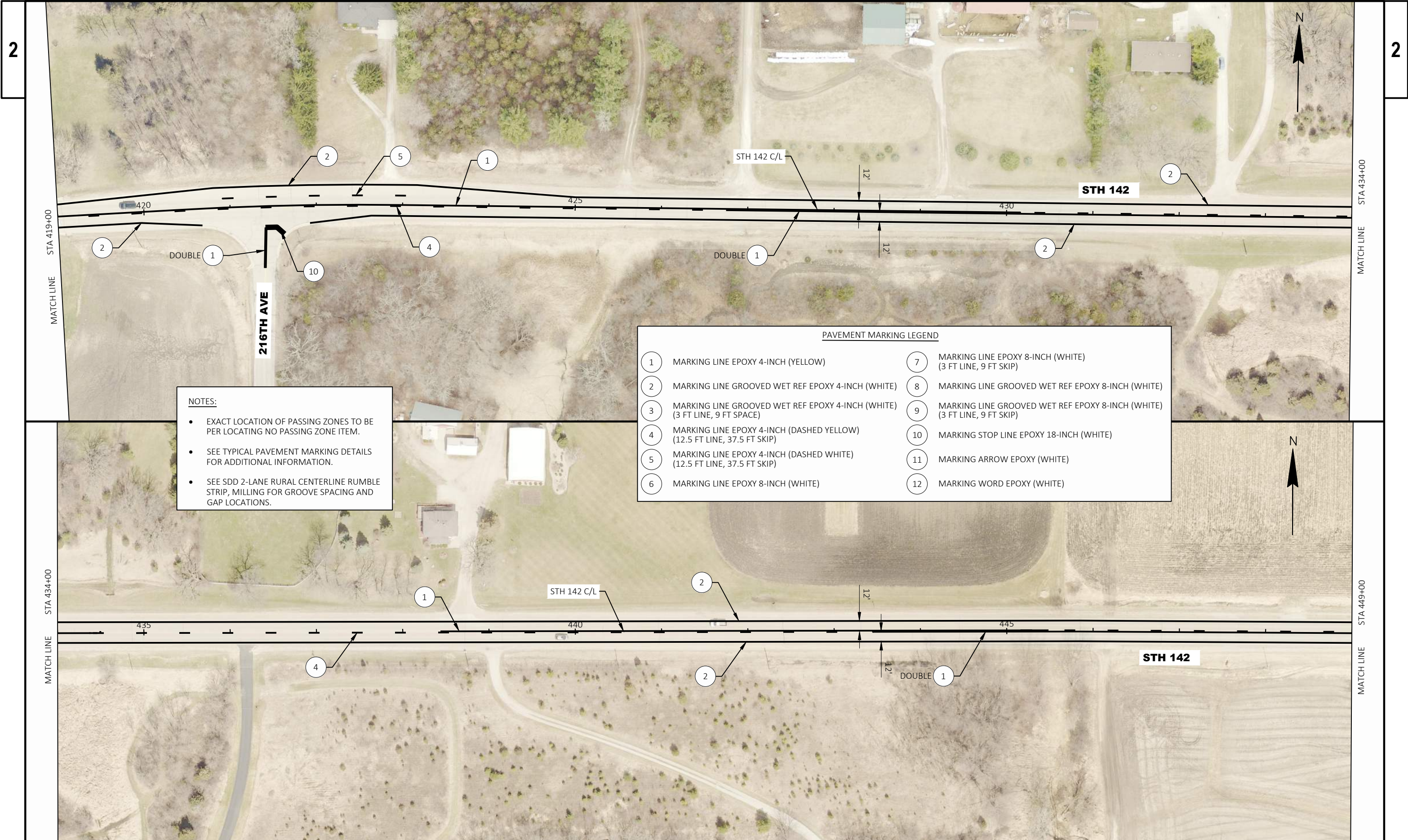
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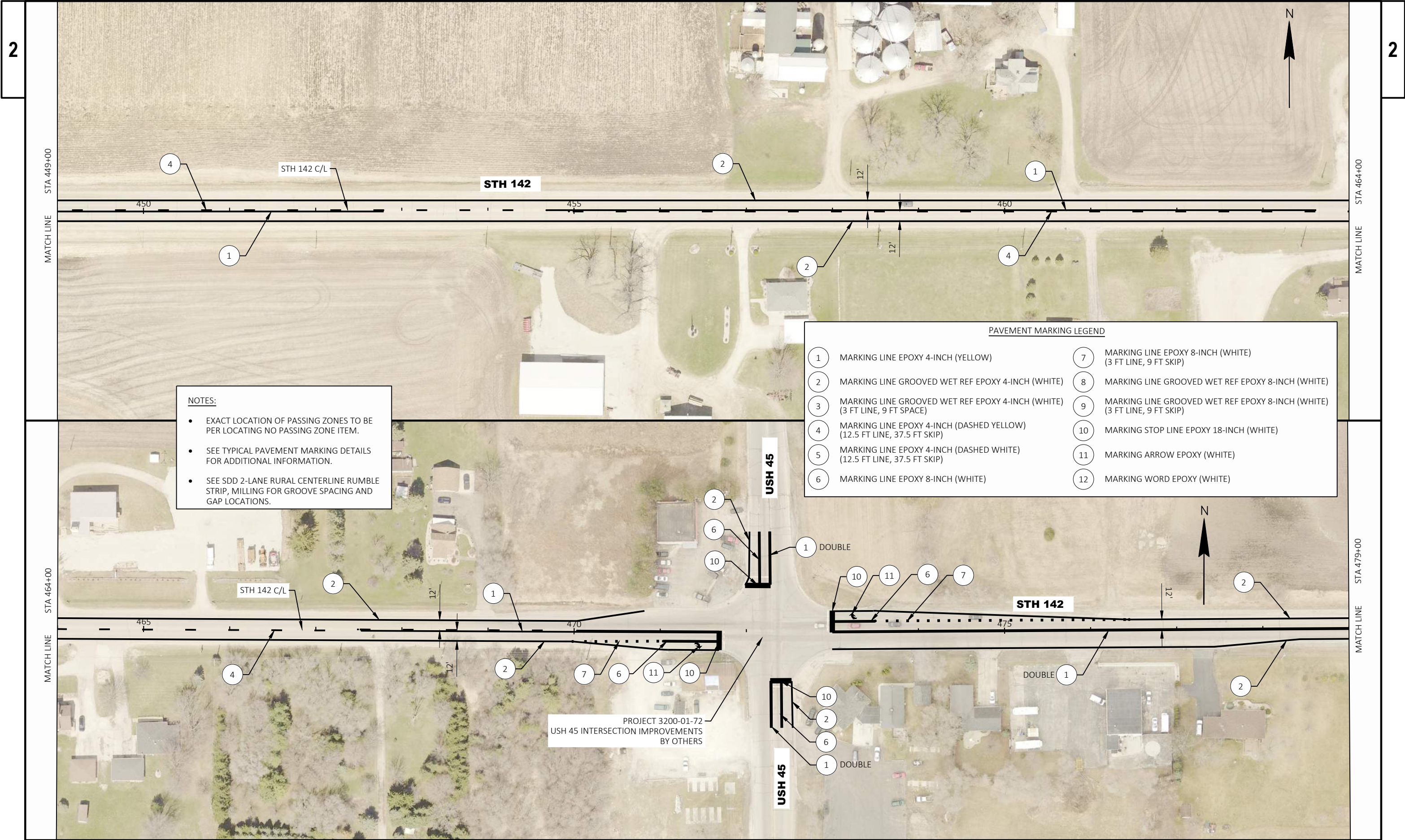
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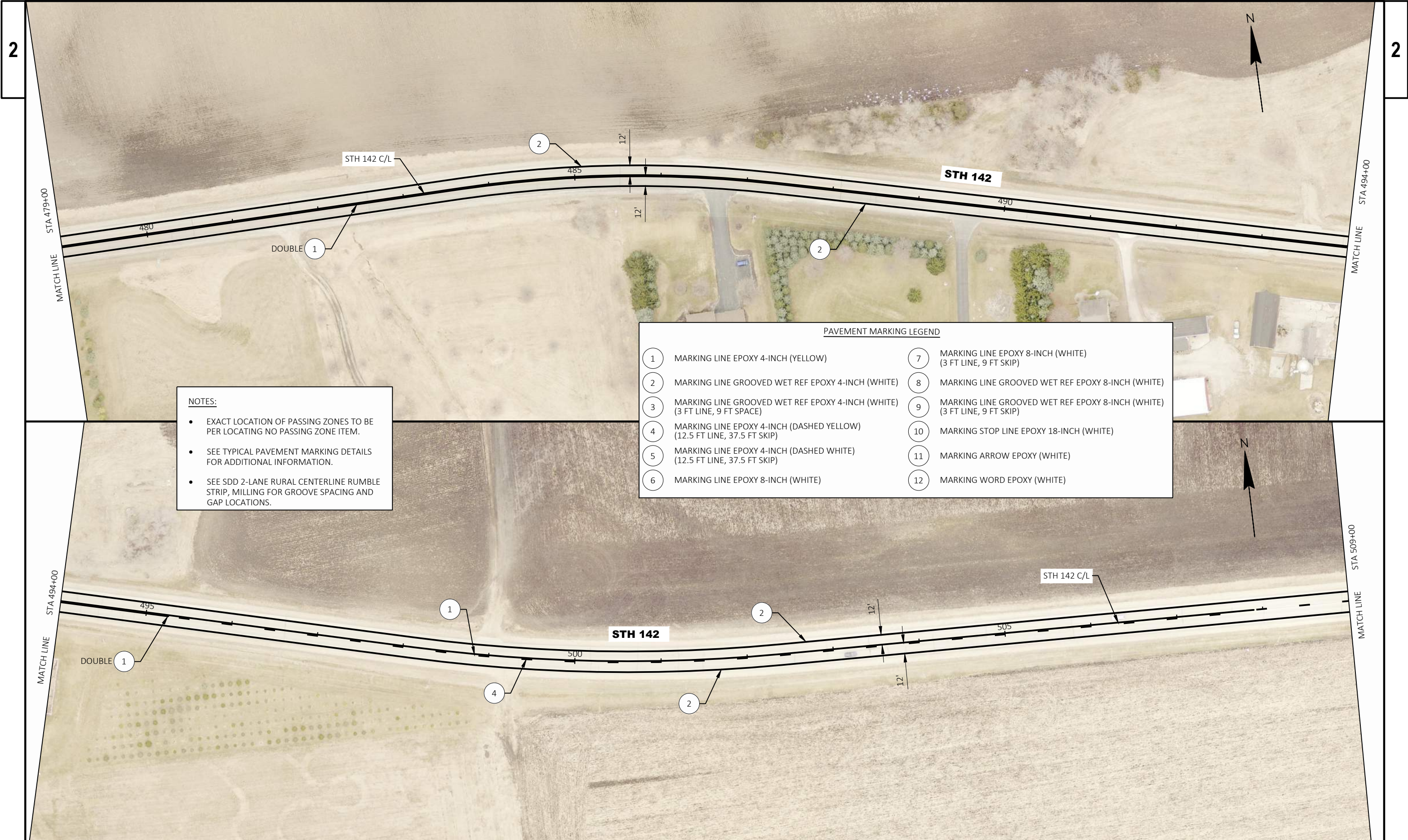


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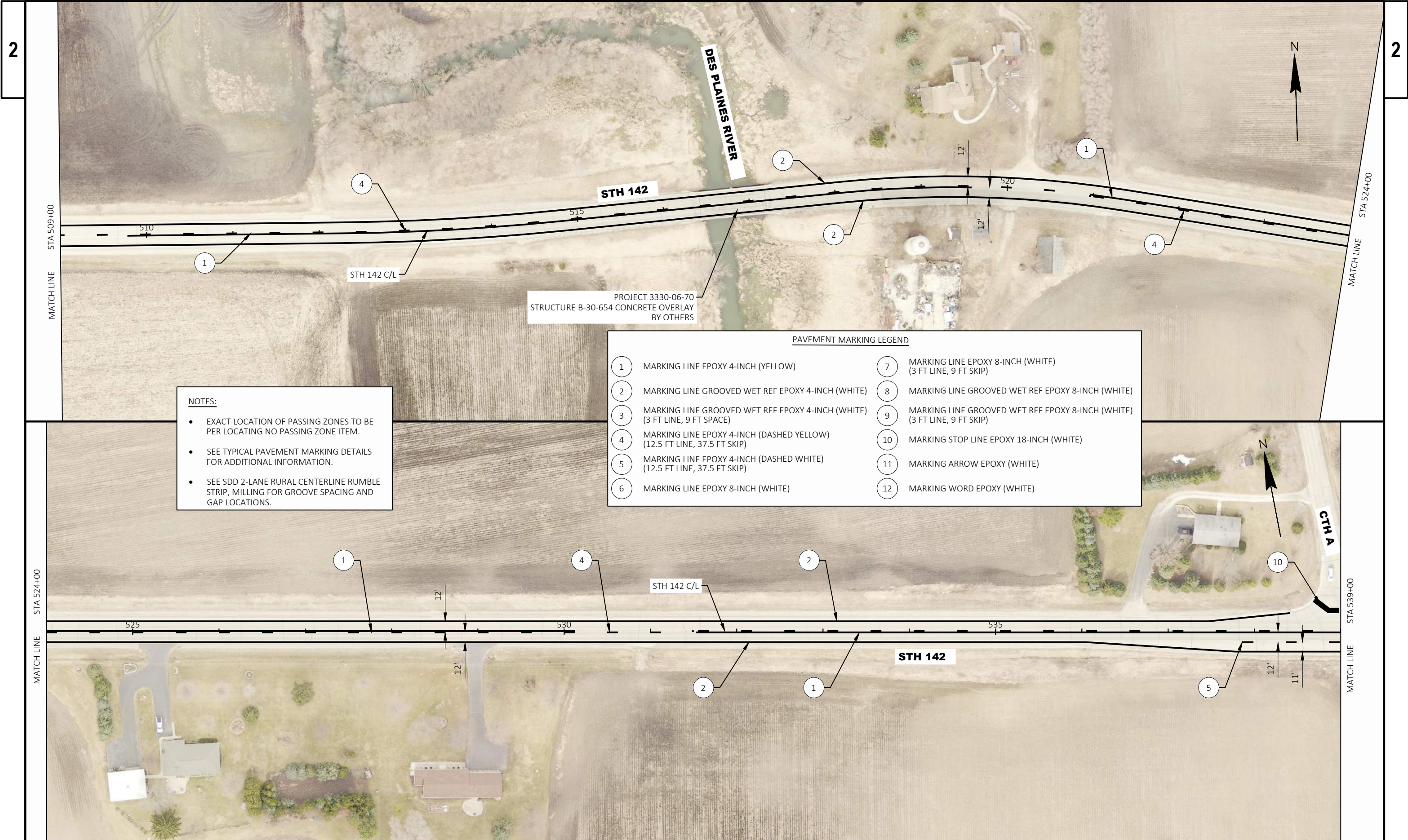
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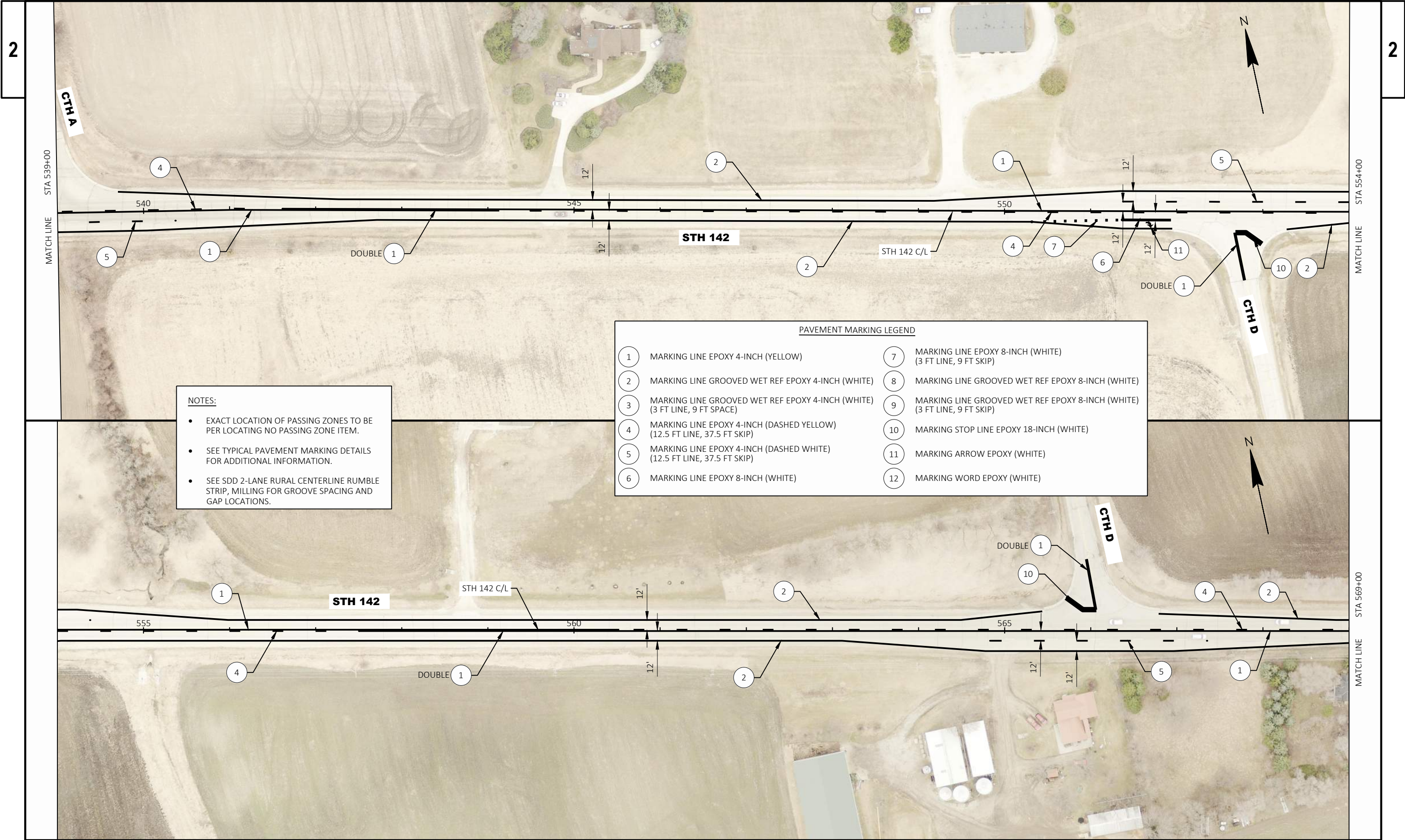




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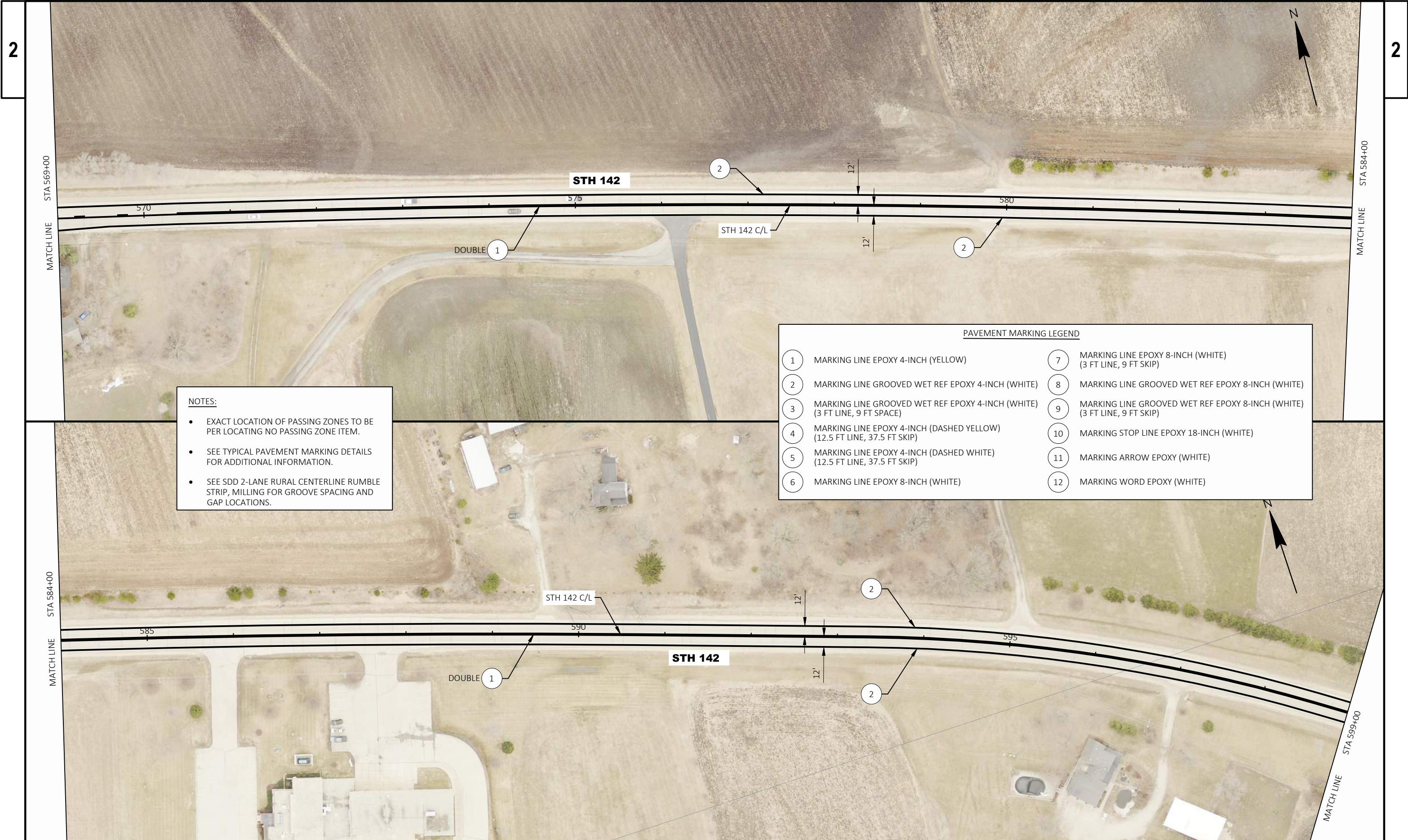




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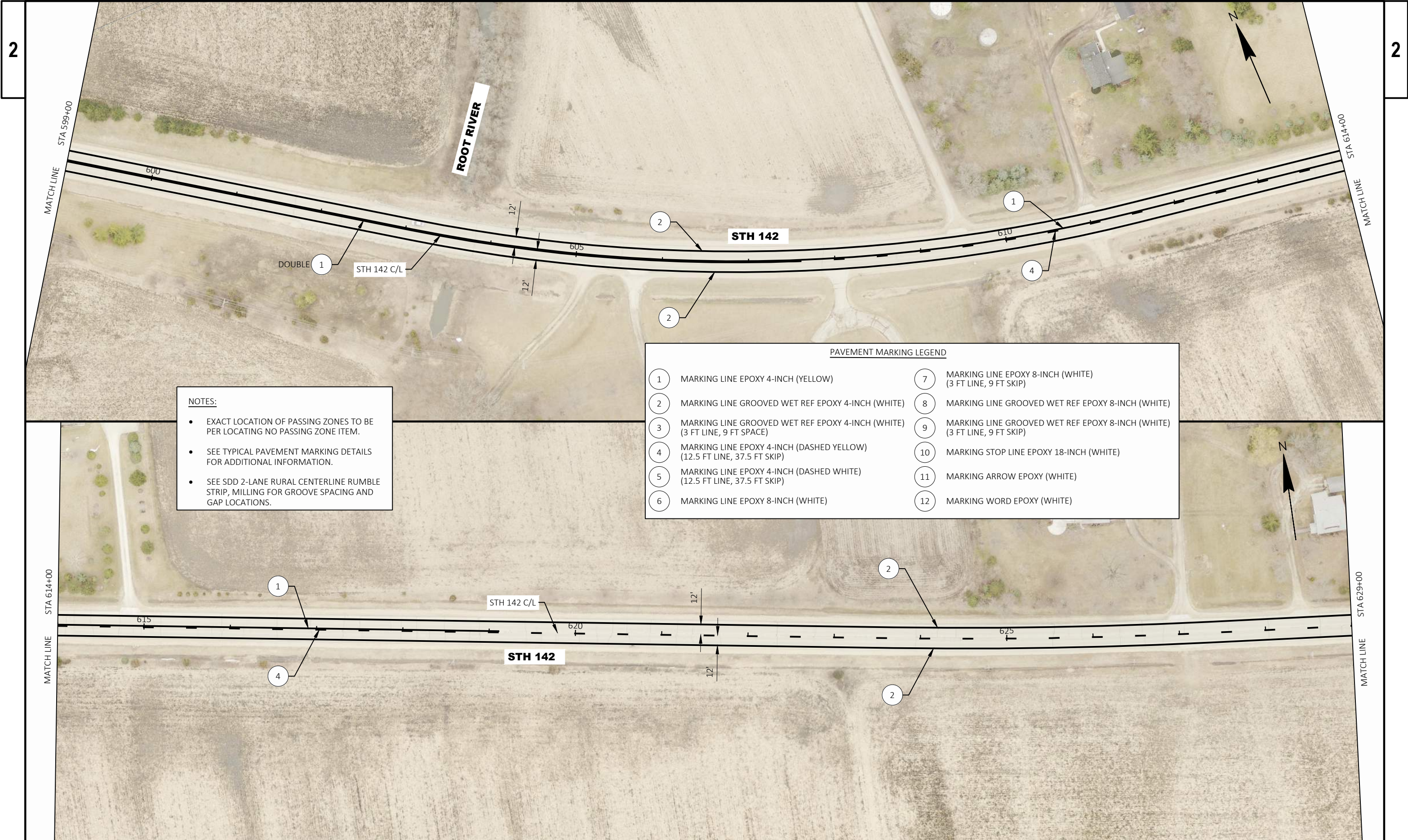
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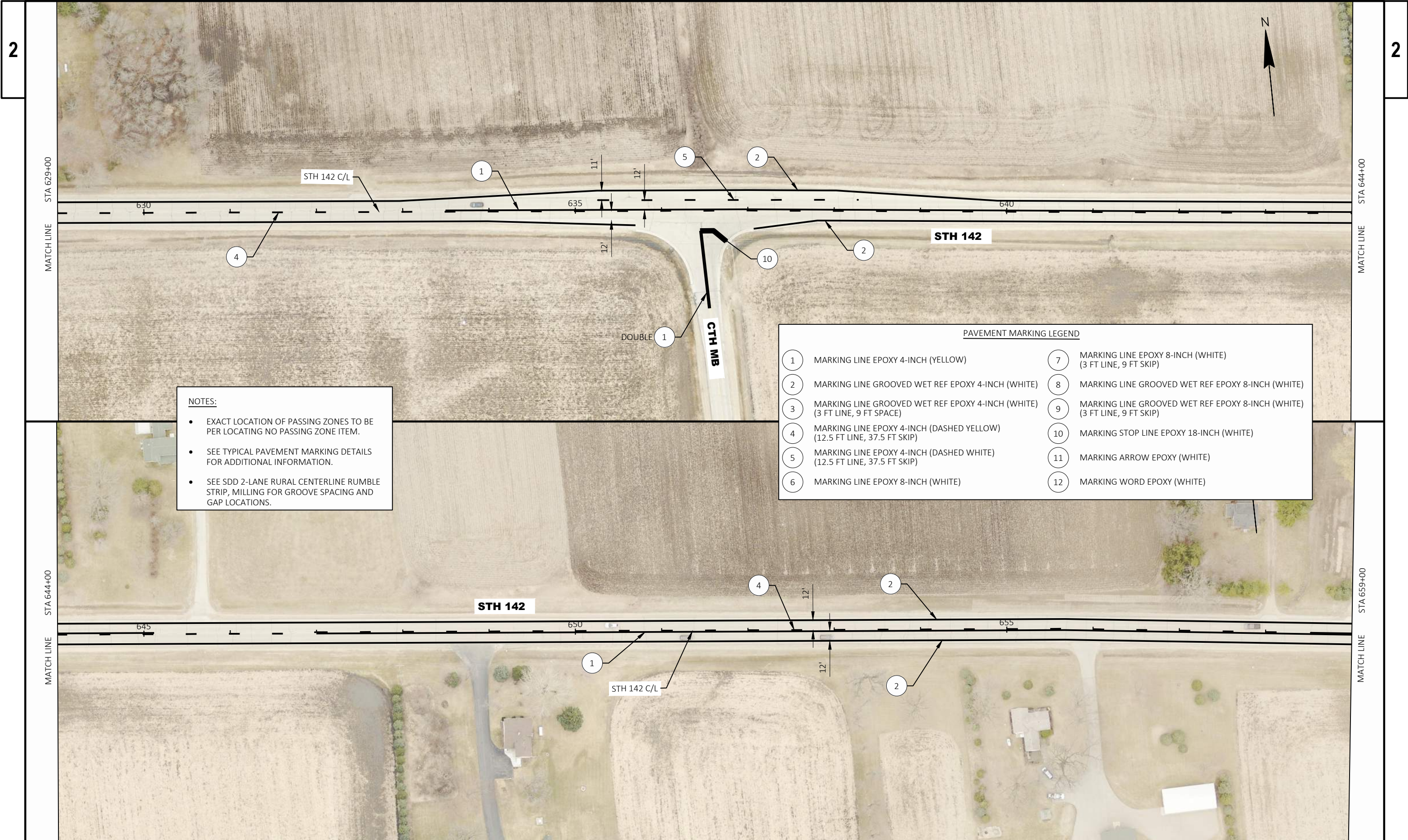
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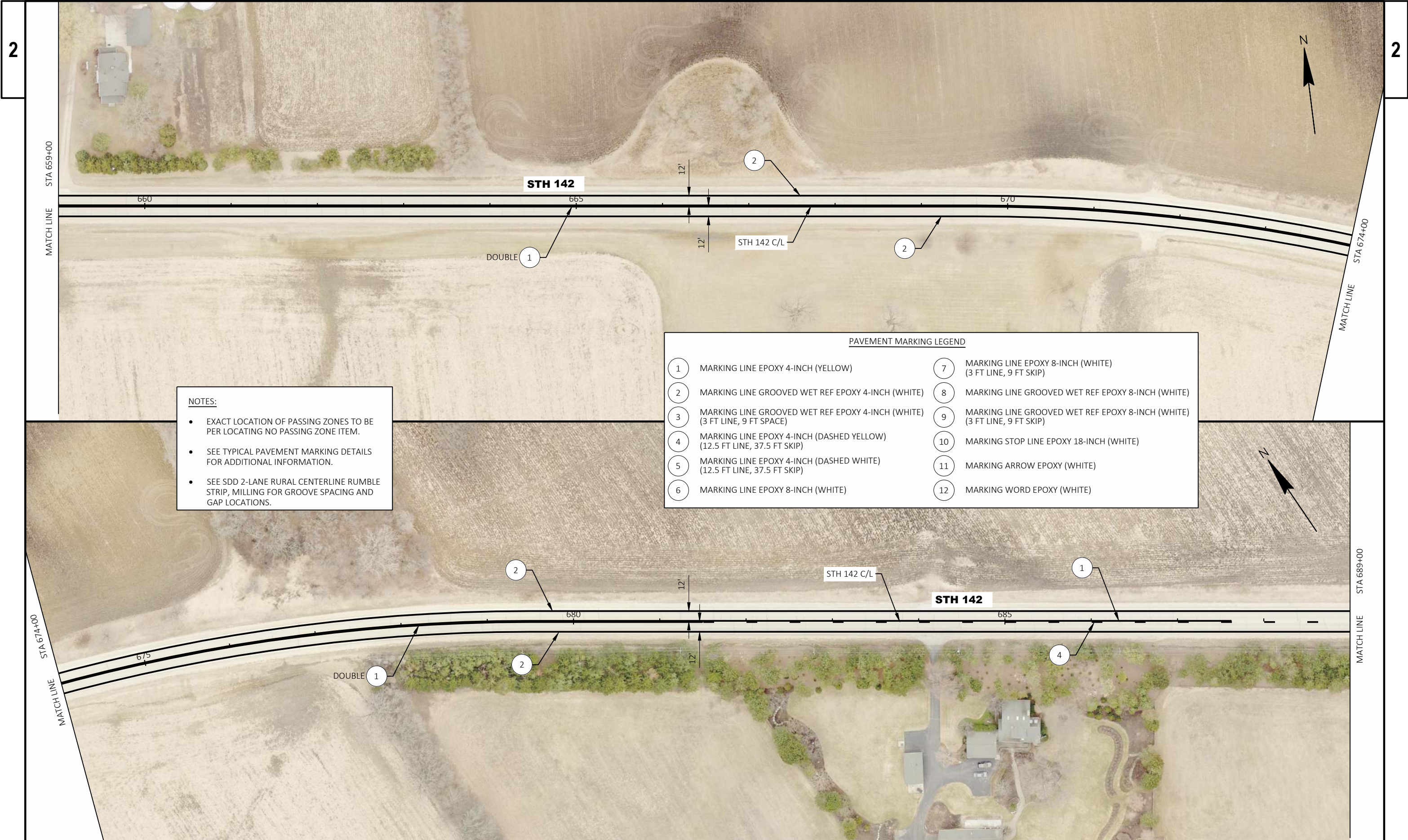
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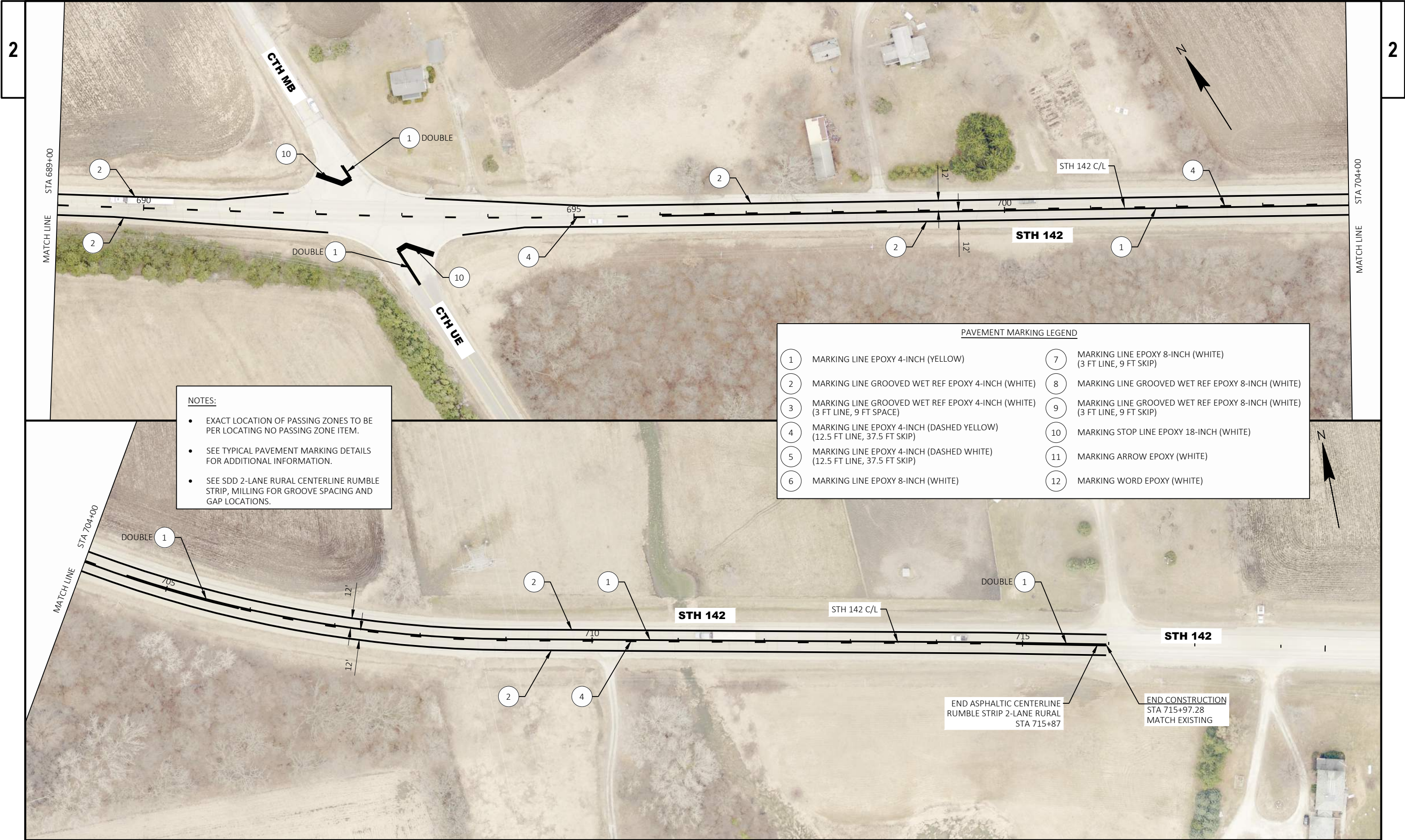
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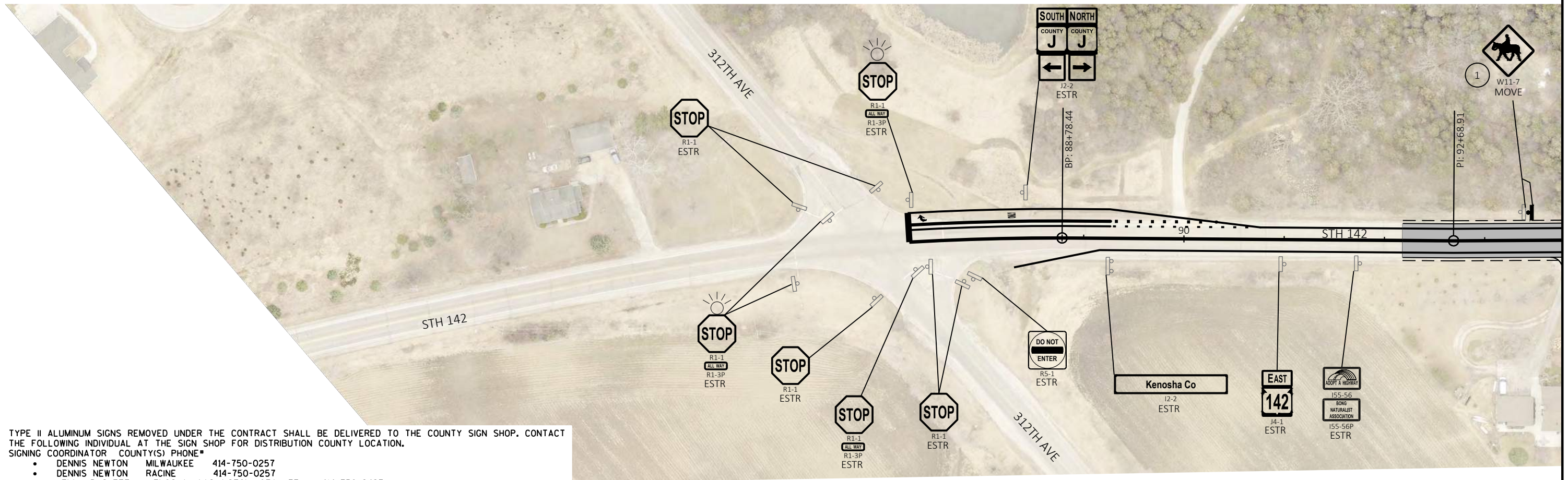
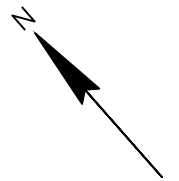
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3	MARKING LINE GROOVED WET REF EPOXY 4-INCH (WHITE) (3 FT LINE, 9 FT SPACE)	9	MARKING LINE GROOVED WET REF EPOXY 8-INCH (WHITE) (3 FT LINE, 9 FT SKIP)
4	MARKING LINE EPOXY 4-INCH (DASHED YELLOW) (12.5 FT LINE, 37.5 FT SKIP)	10	MARKING STOP LINE EPOXY 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)



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
-  VARIABLE MESSAGE SIGN
-  EXISTING LIGHT OR SIGNAL POLE
-  SIGN BRIDGE
-  CANTILEVER SIGN BRIDGE
-  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.

SHEET 1 OF 43

PROJECT NO: 3834-06-70

HWY: STH 142

COUNTY: KENOSHA

PERMANENT SIGNING PLAN

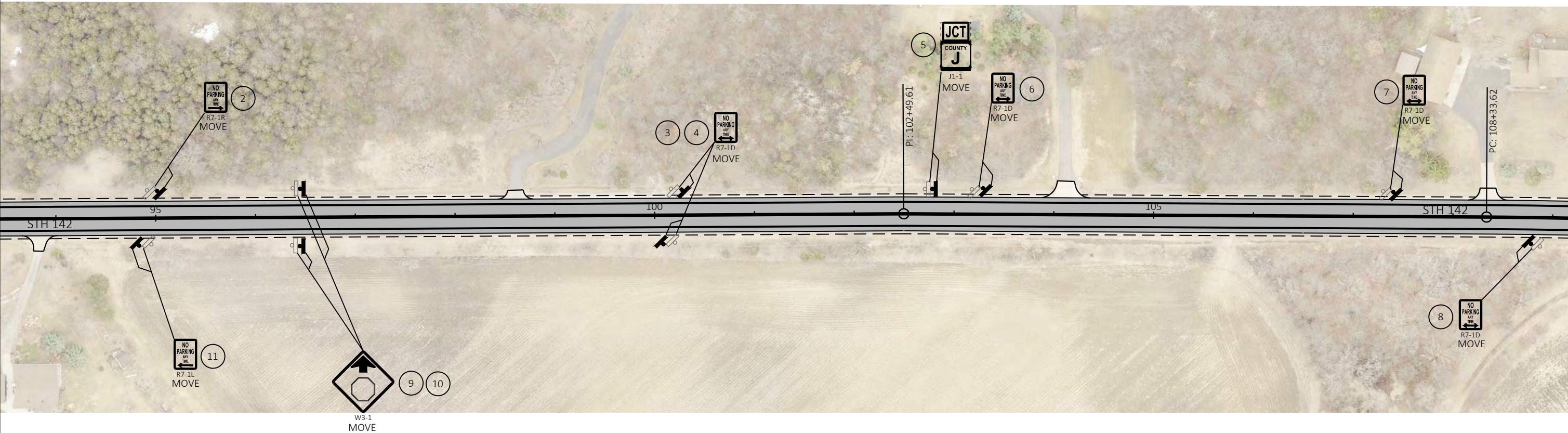
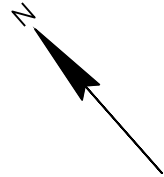
SHEET

E

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
- VARIABLE MESSAGE SIGN
- EXISTING LIGHT OR SIGNAL POLE
- SIGN BRIDGE
- CANTILEVER SIGN BRIDGE
- DENOTES SIGN NUMBER
- ESTR** EXISTING SIGN TO REMAIN

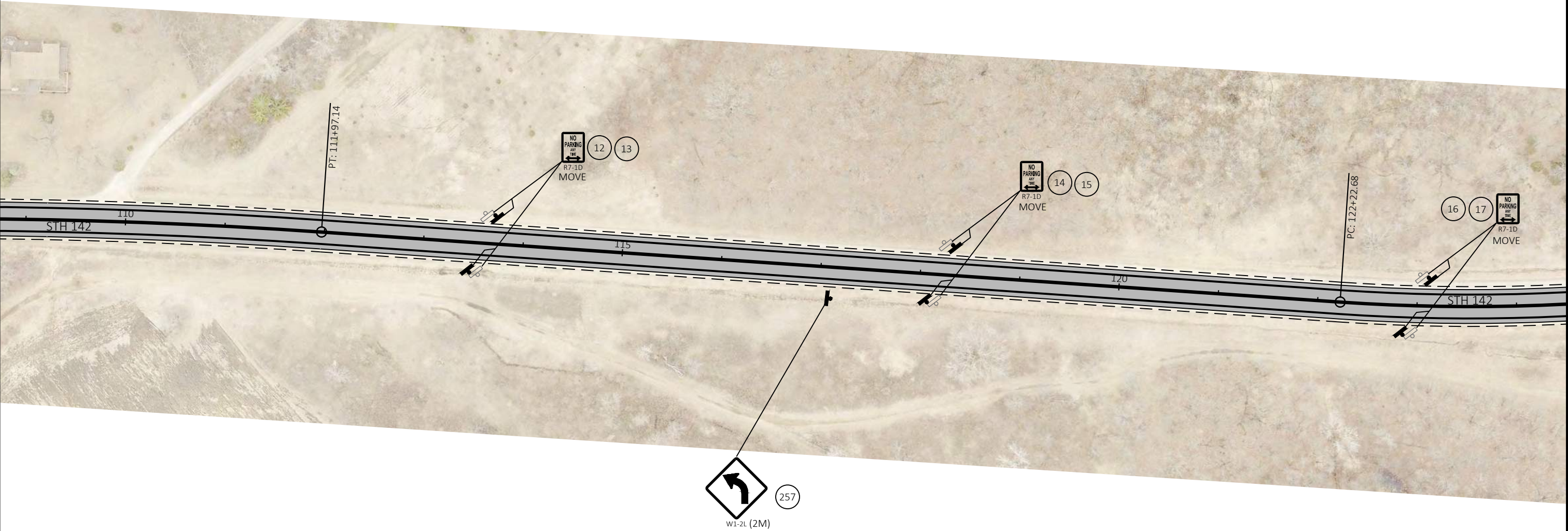
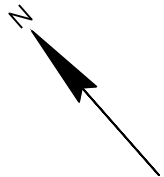
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2

2

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- SIGN BRIDGE
- CANTILEVER SIGN BRIDGE
- DENOTES SIGN NUMBER
- EXISTING SIGN TO REMAIN

PC: 122+22.68

125

130

135

PT: 135+67.04

STH 142

STH 142

NO PARKING ANY TIME
R7-1D
MOVE

18 19

NO PARKING ANY TIME
R7-1D
MOVE

20 21

NO PARKING ANY TIME
R7-1D
MOVE

22 23

SHEET 4 OF 43

	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
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ESTR	EXISTING SIGN TO REMAIN



SHEET 4 OF 43

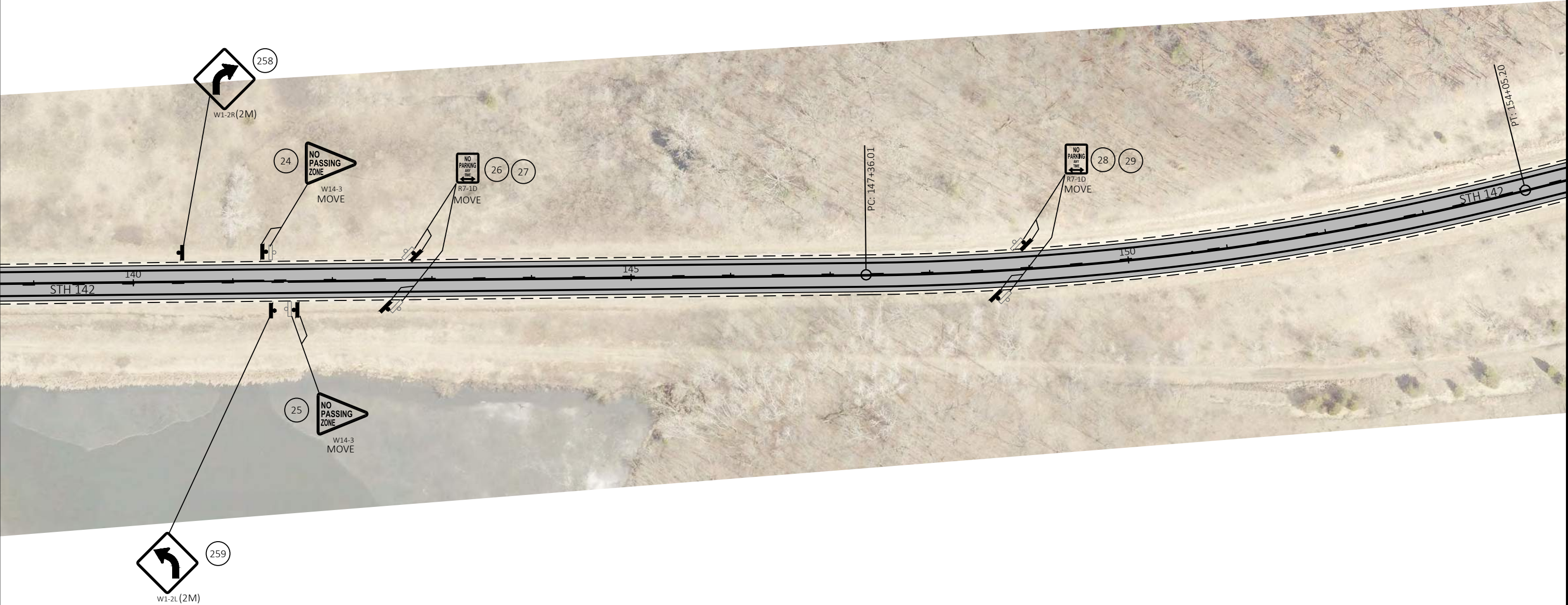
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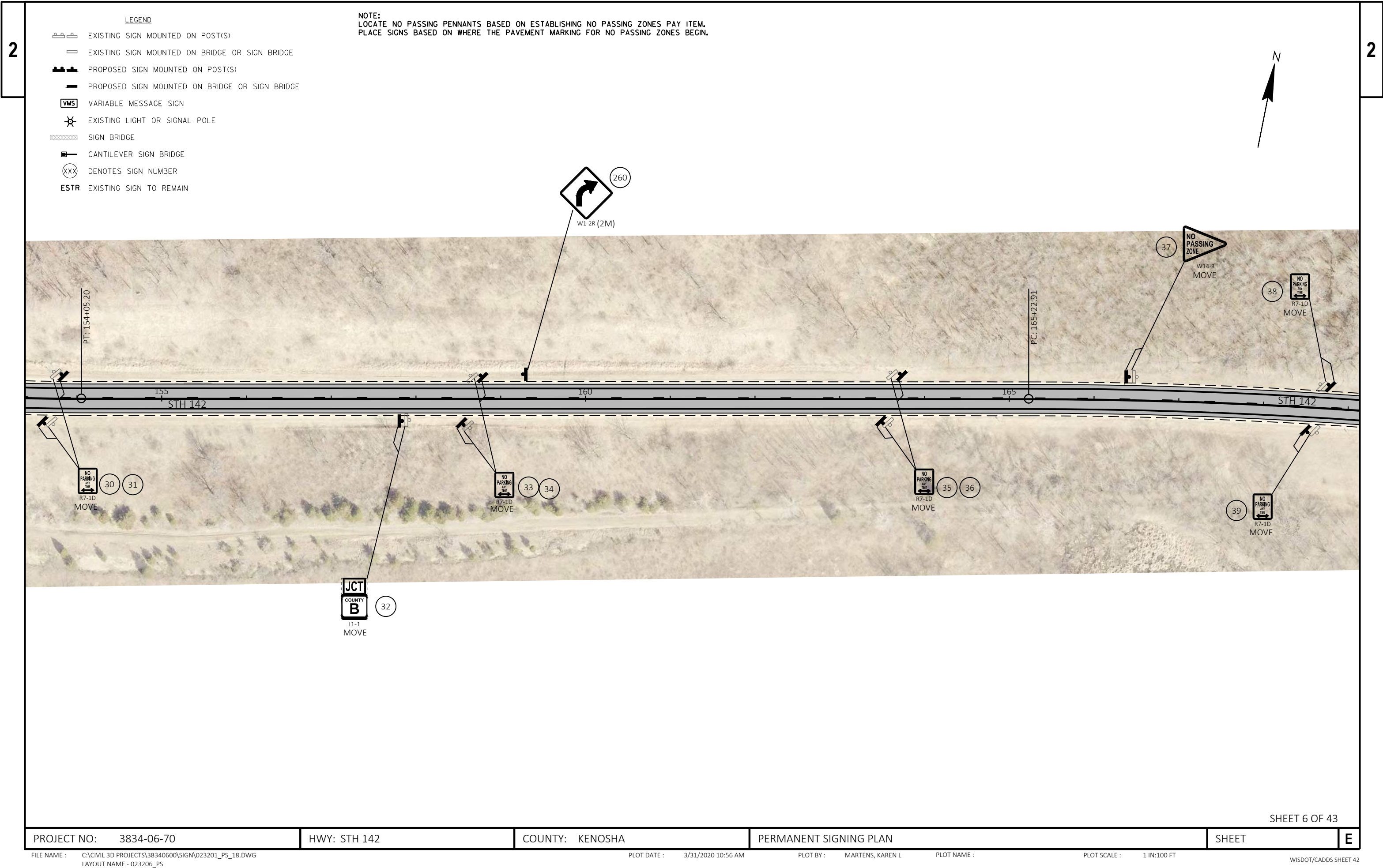
WISDOT/CADDS SHEET 42

LEGEND

- EXISTING SIGN MOUNTED ON POST(S)
- EXISTING SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
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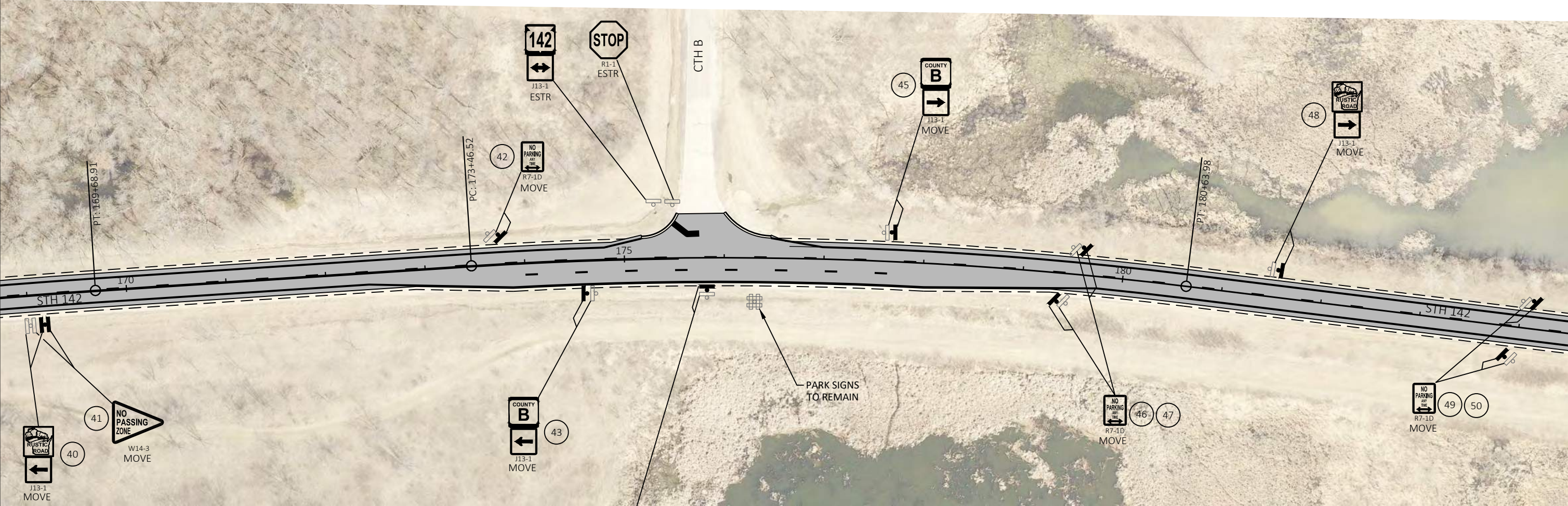


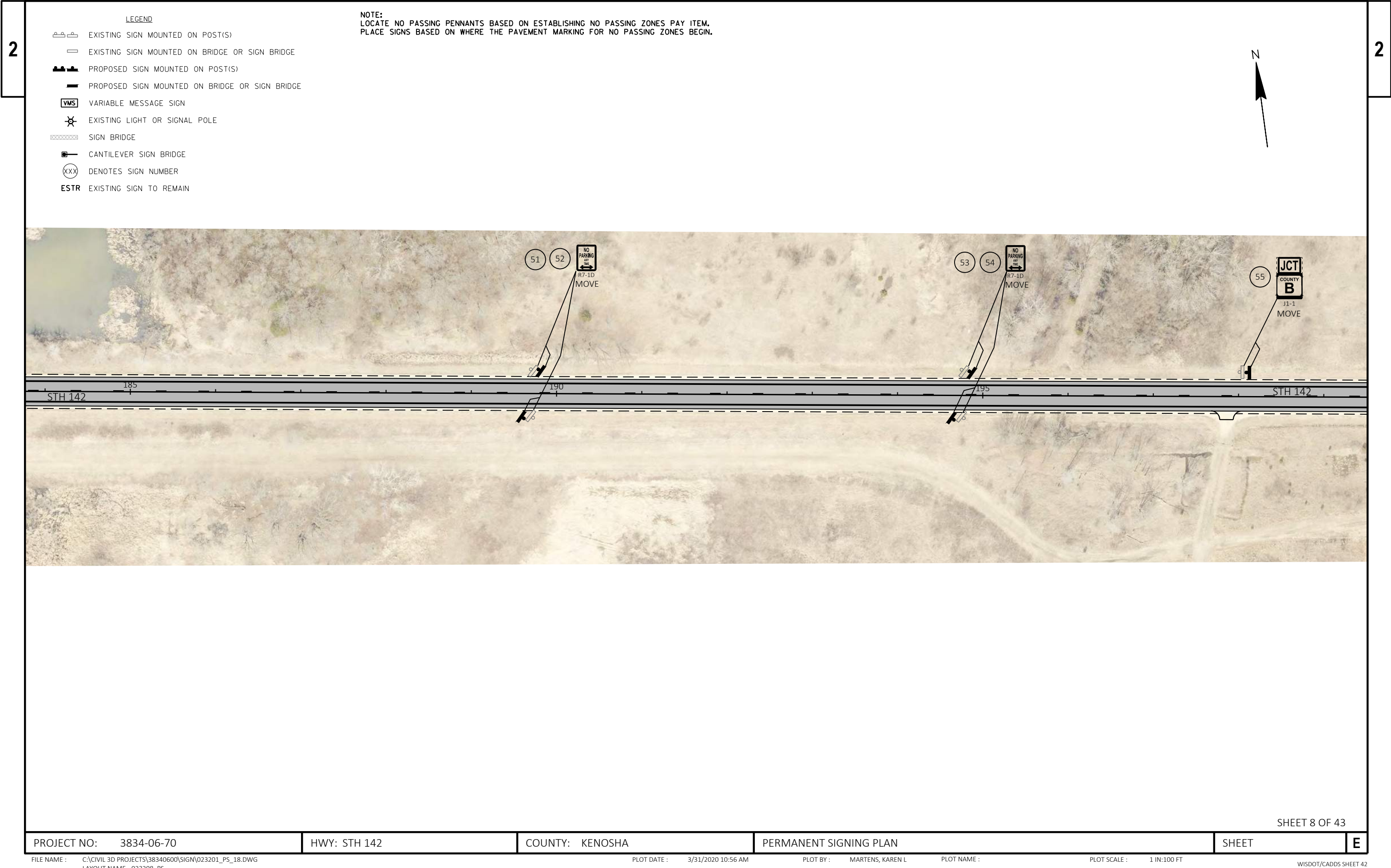


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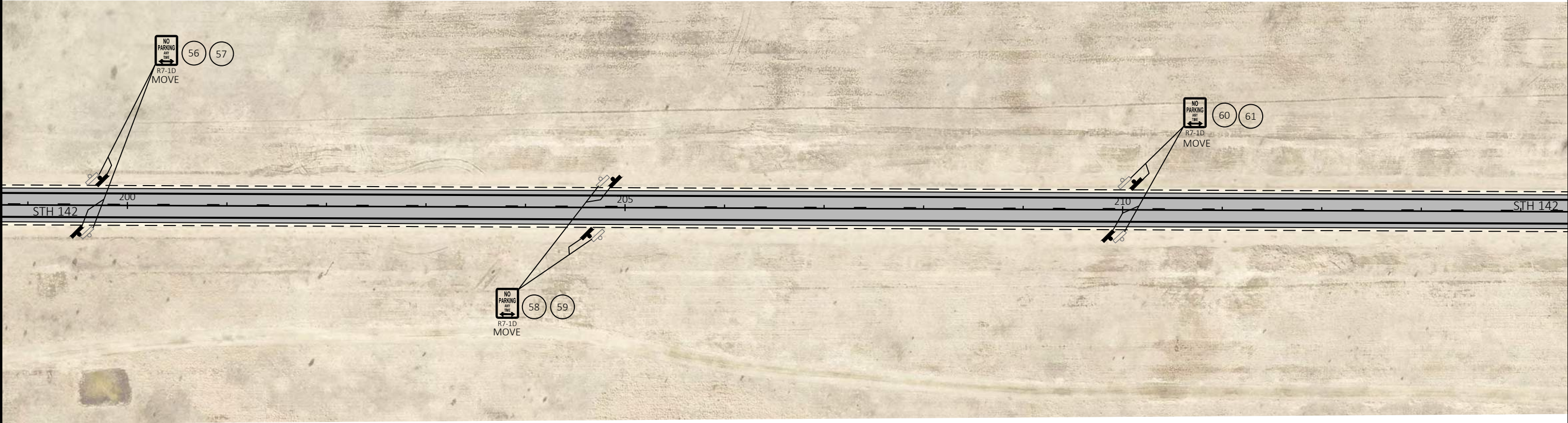




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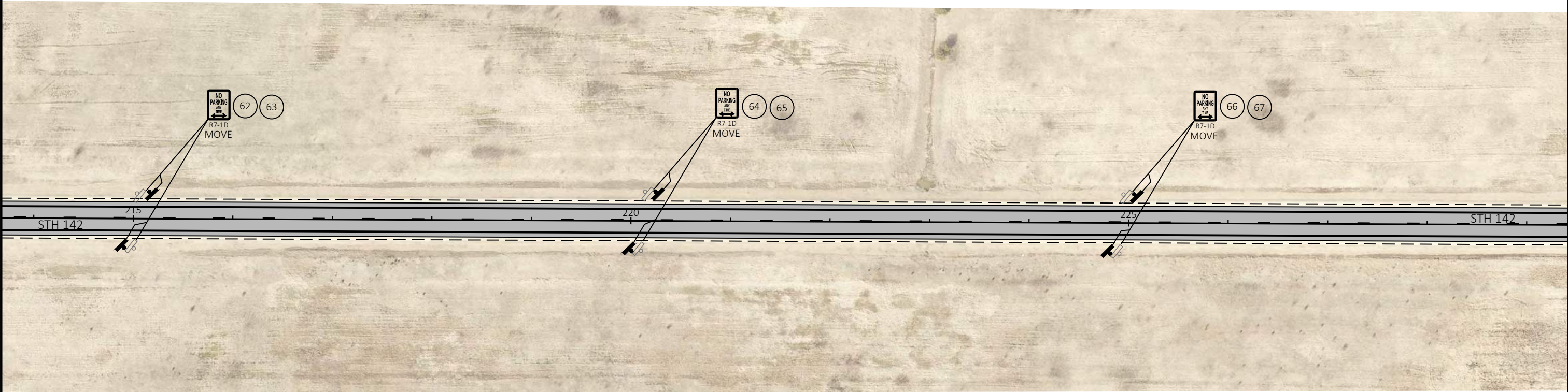
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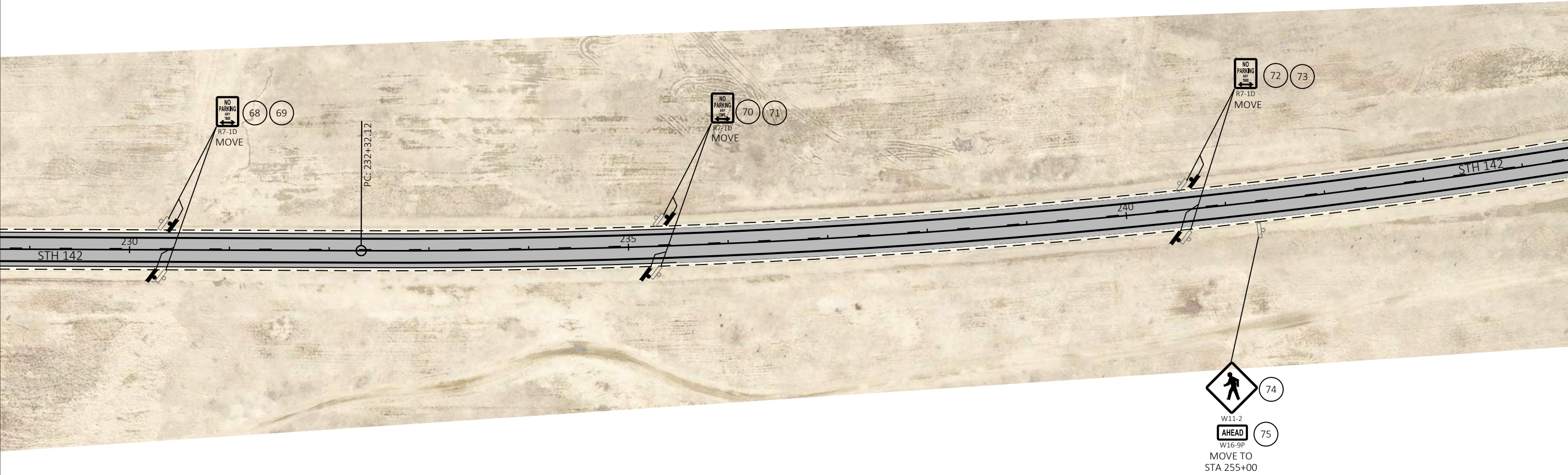
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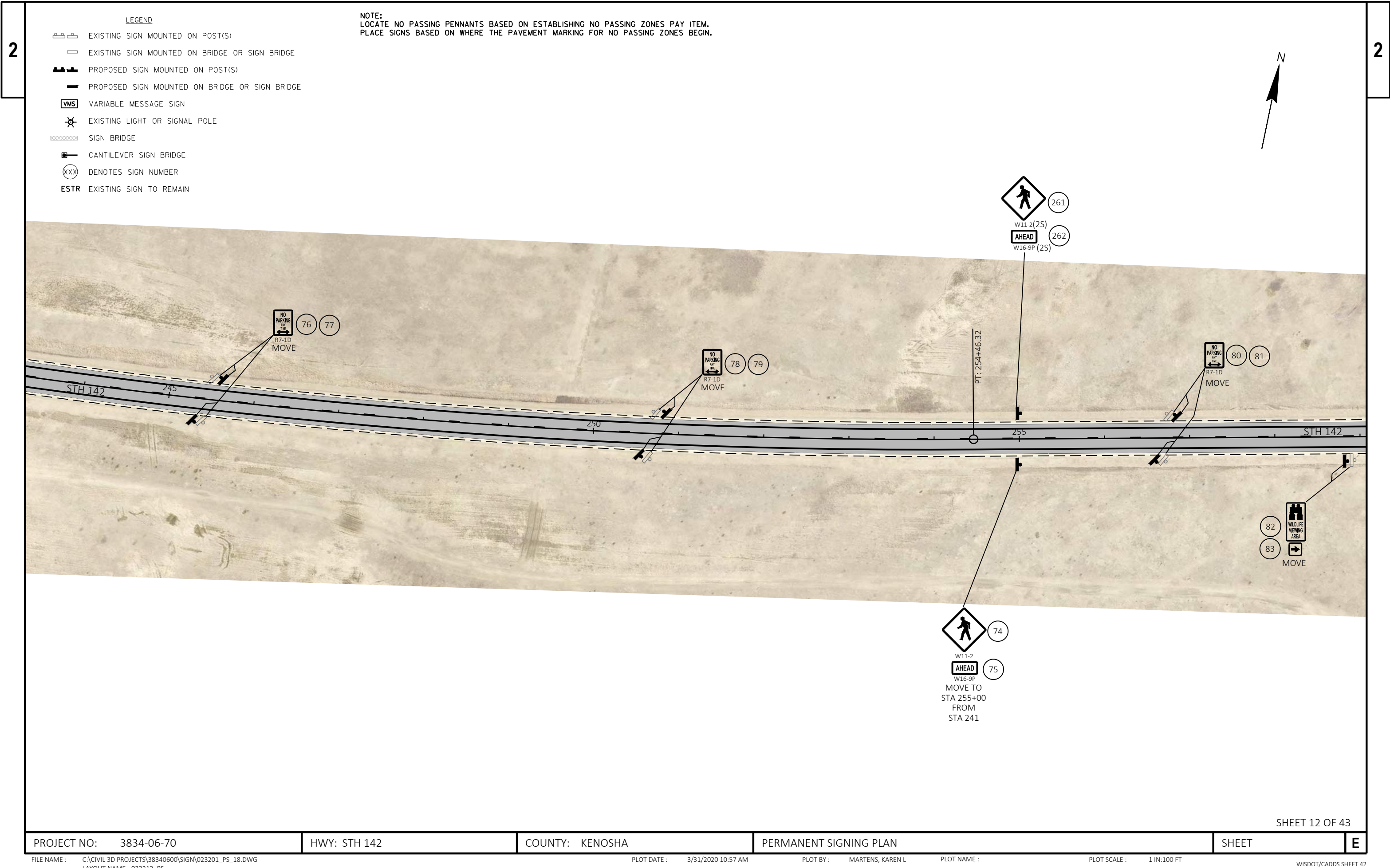


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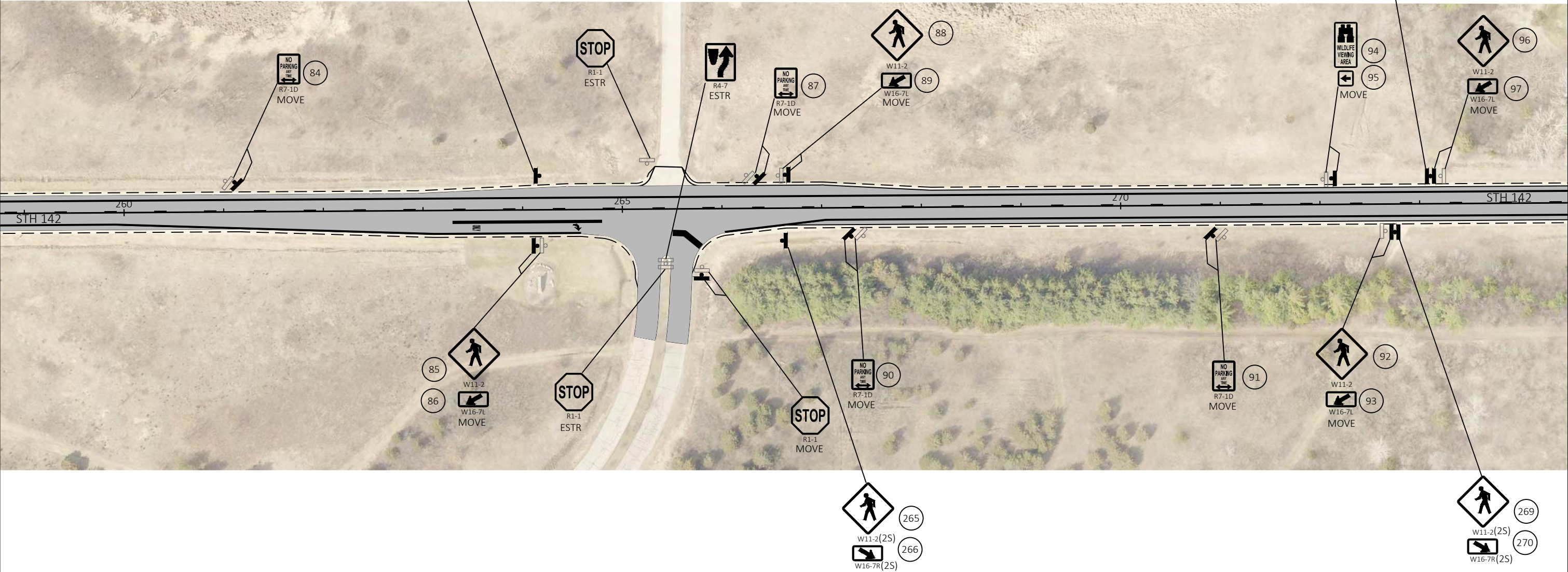




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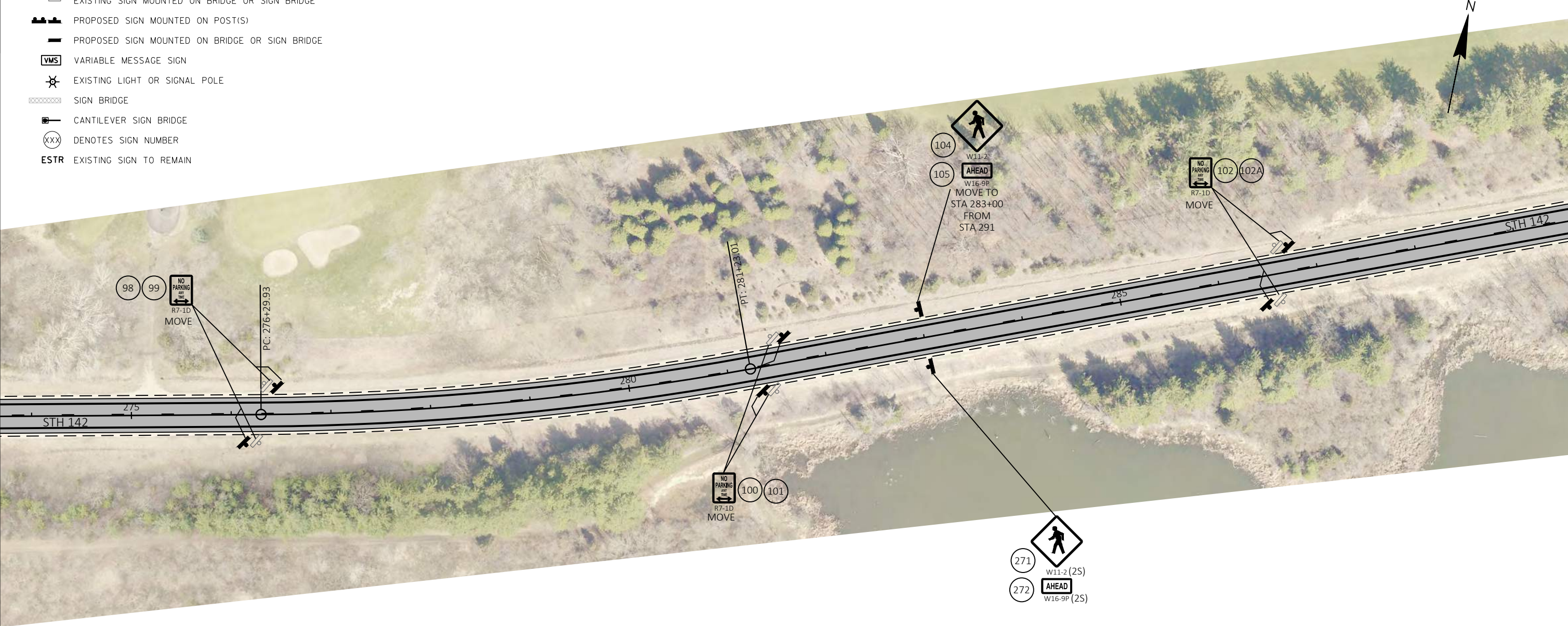
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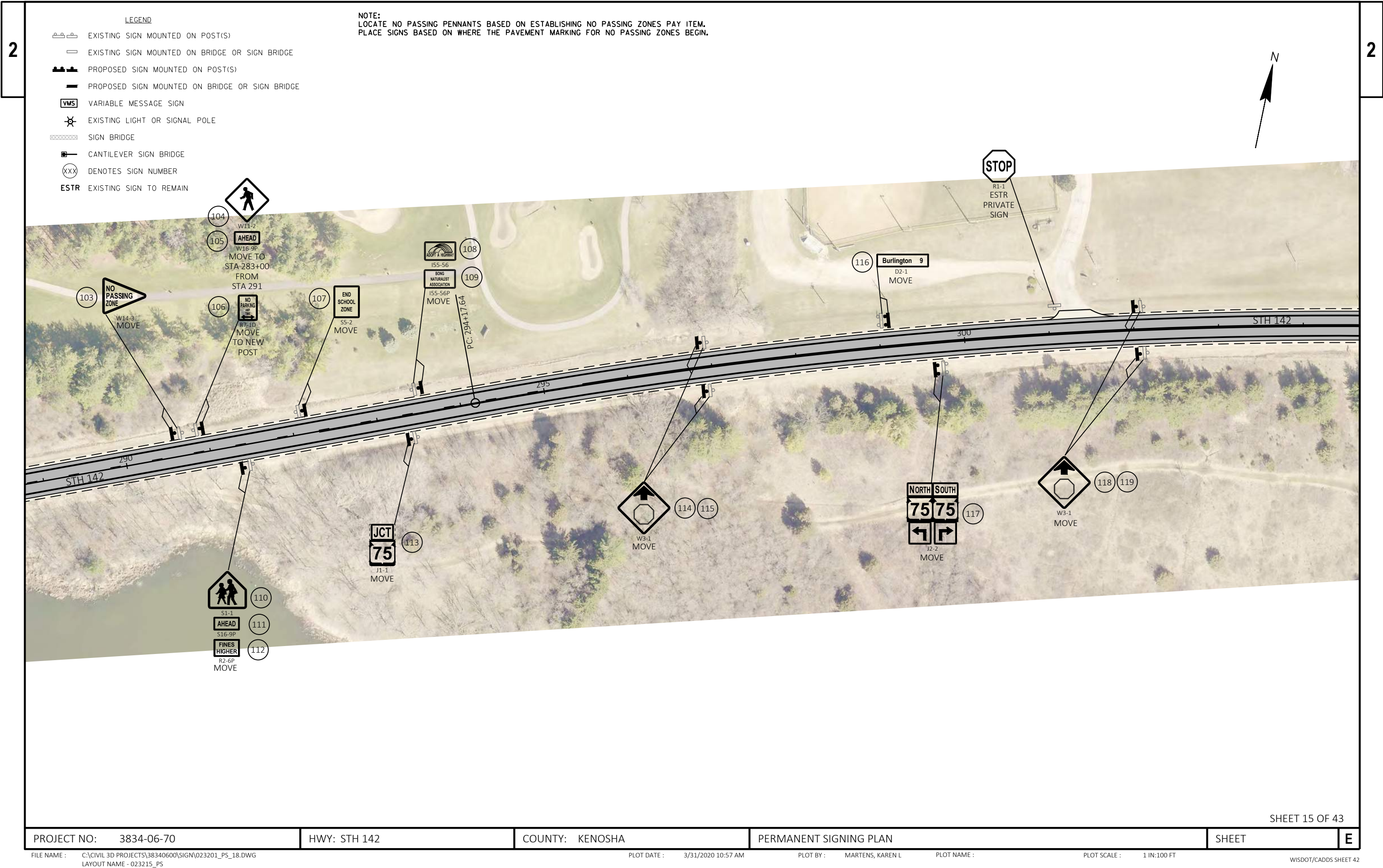


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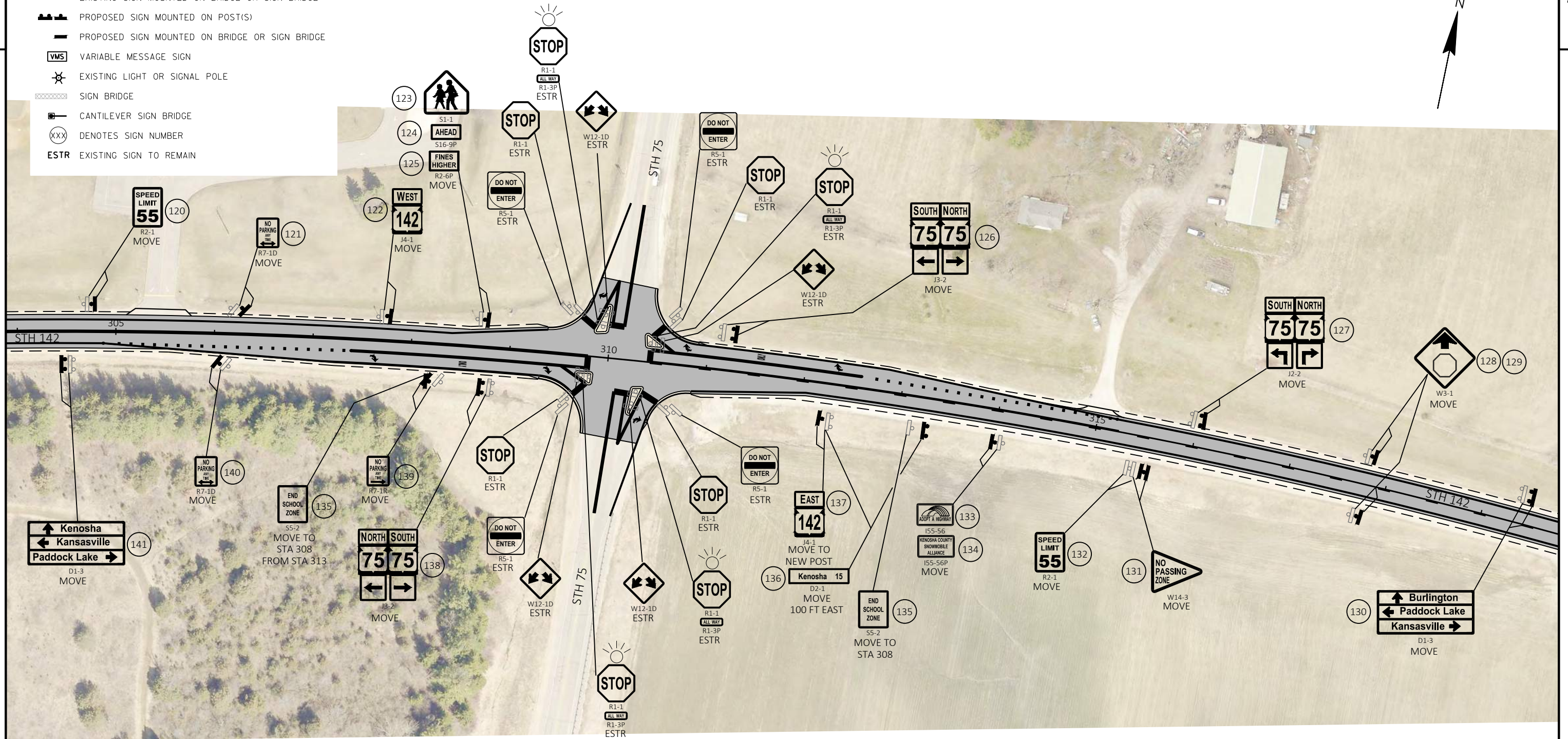




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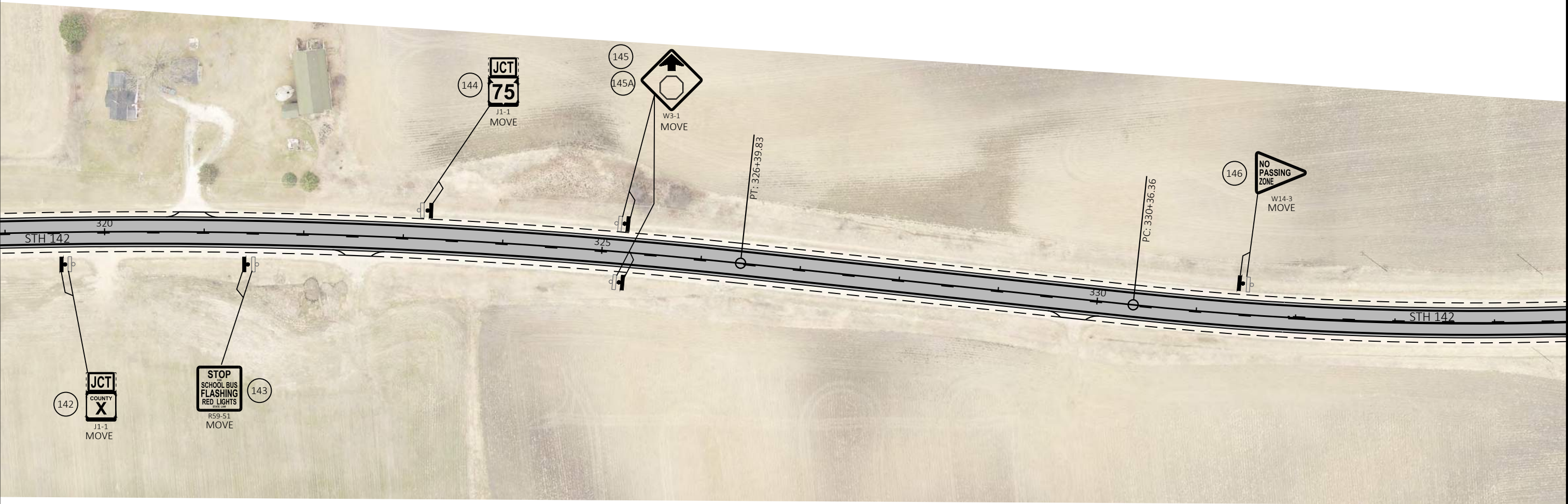
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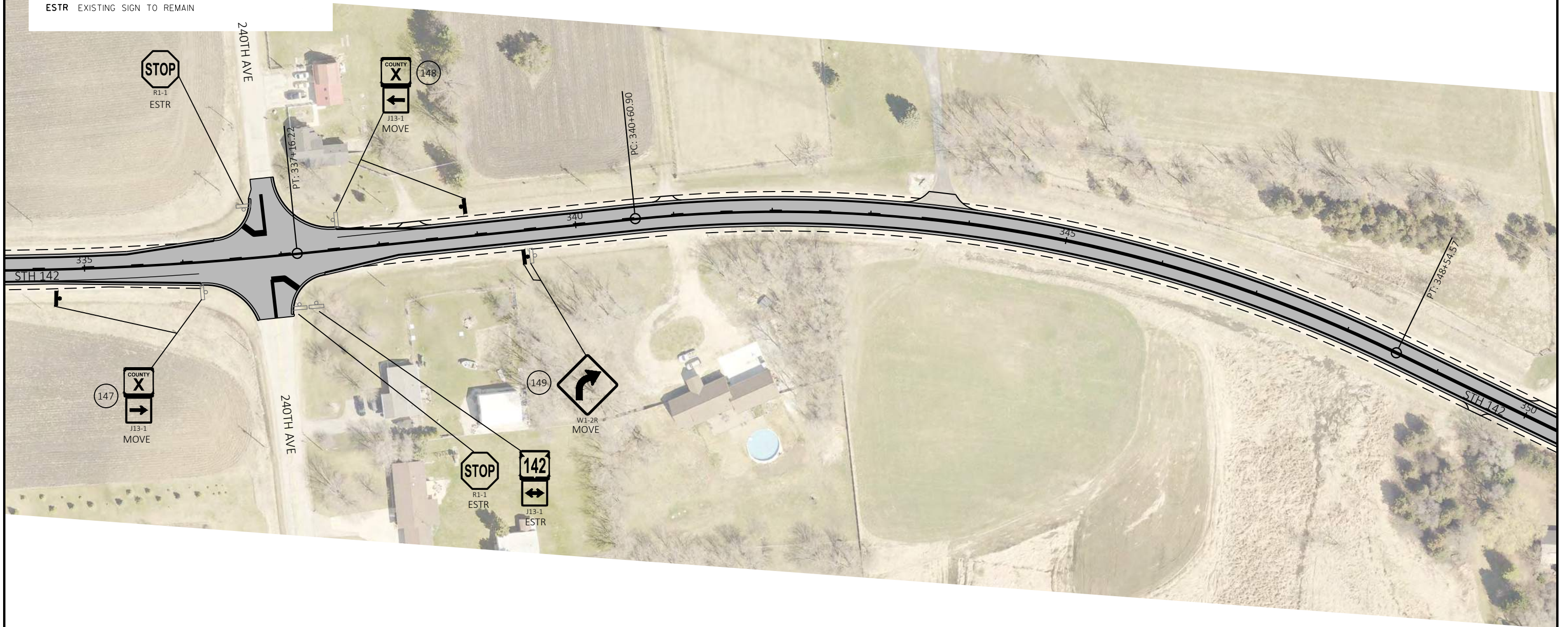
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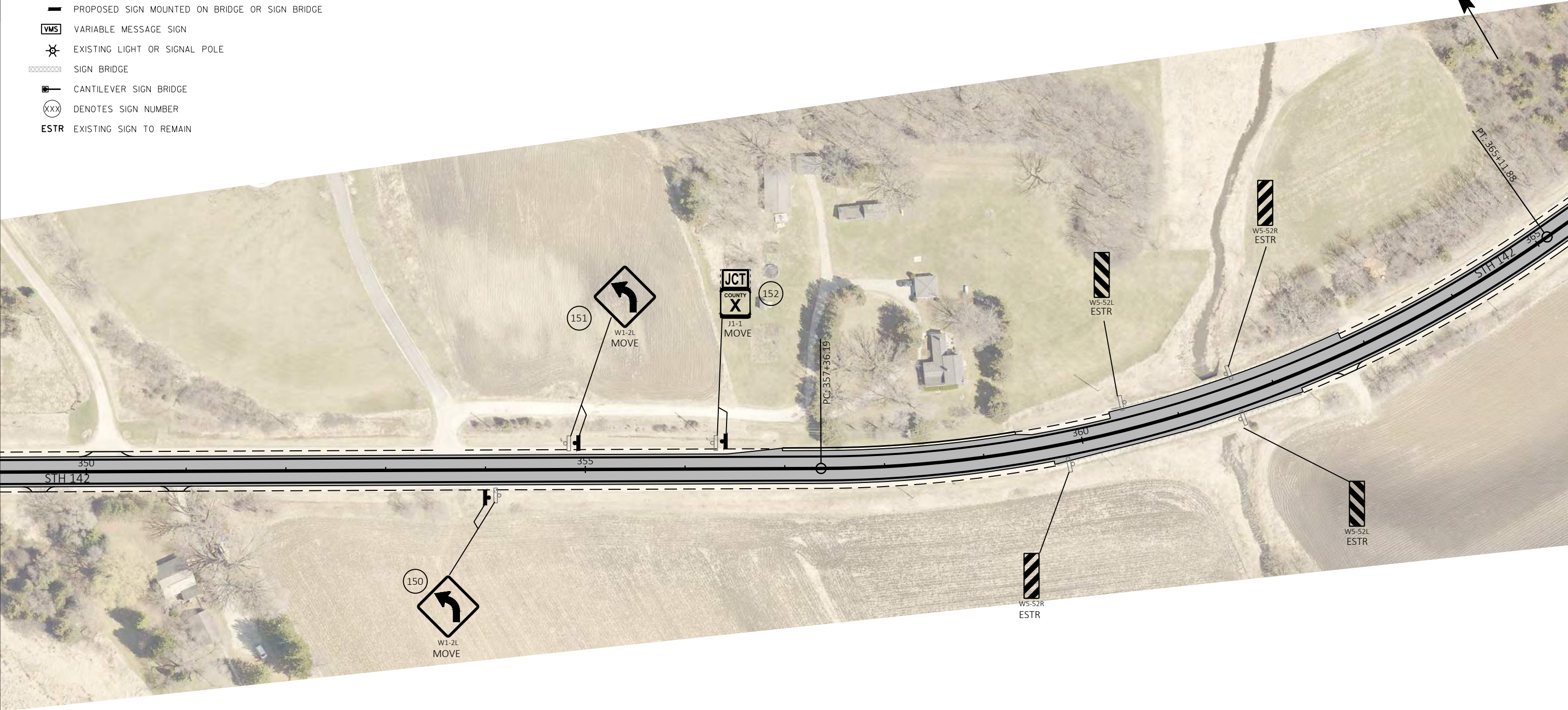
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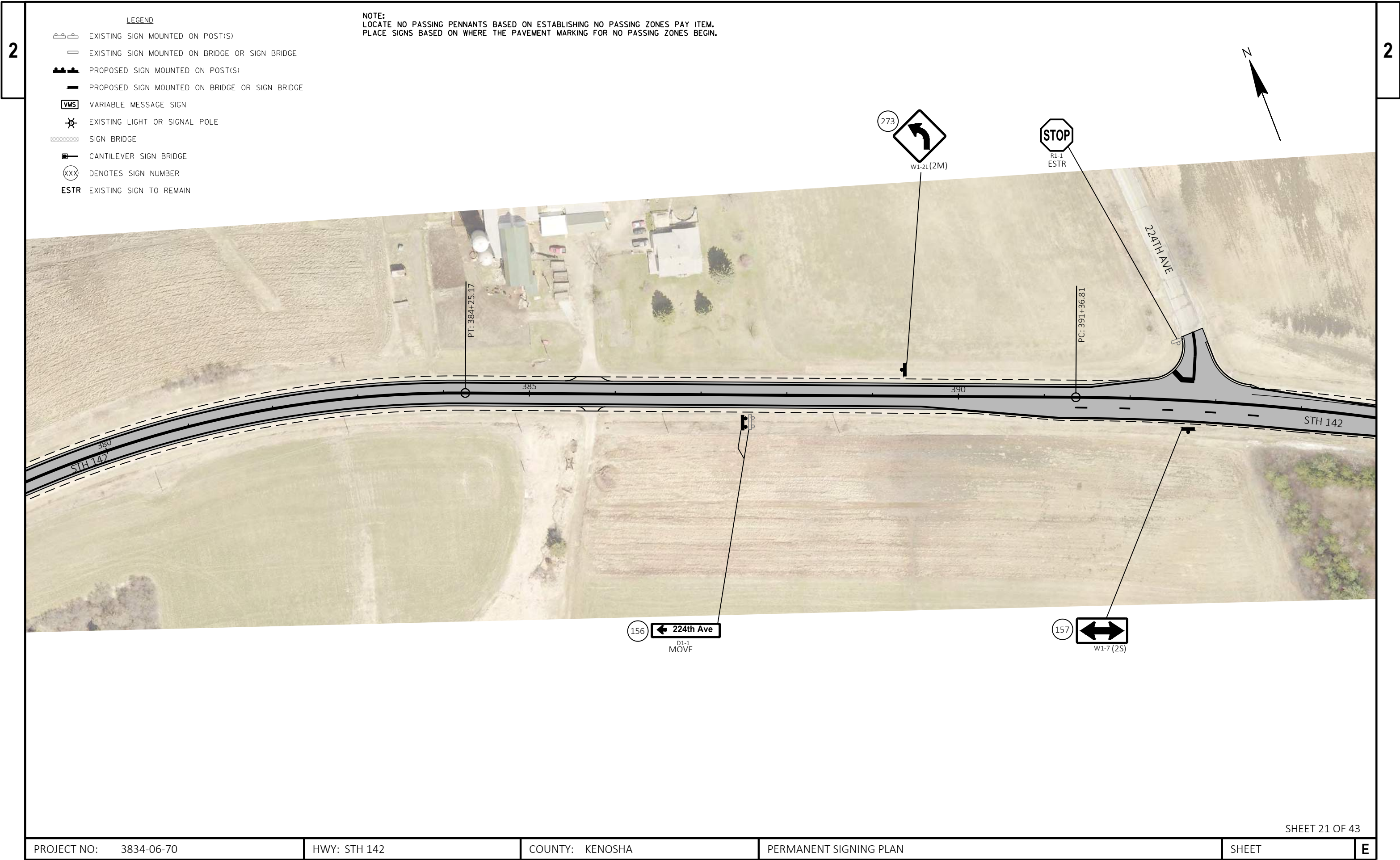


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158 224th Ave →
D1-1
MOVE



(274)
W1-2L(2M)

LEGEND

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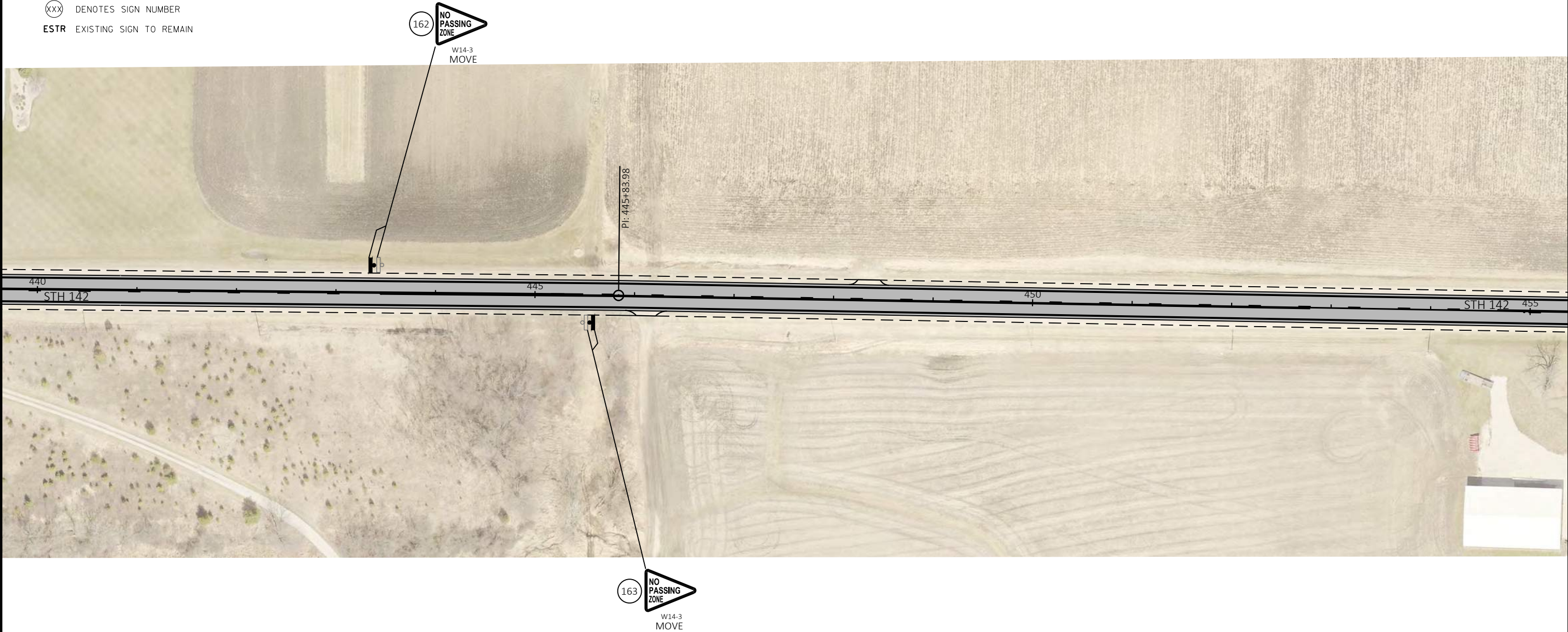
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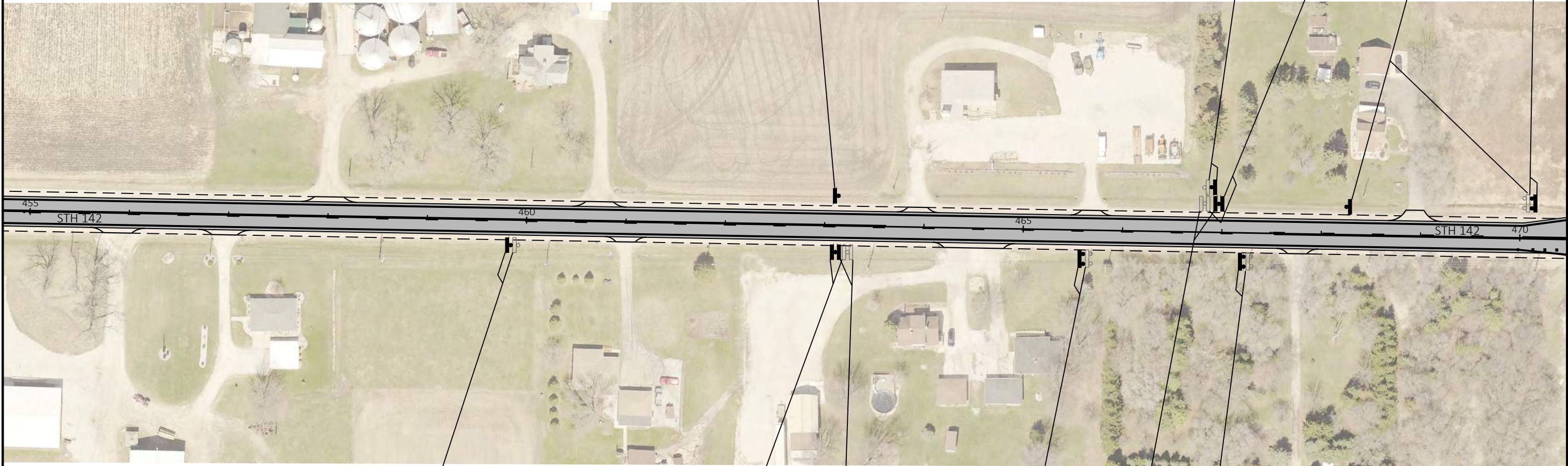
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164

J1-1
MOVE

165

W3-1
MOVE

166

W14-3
MOVE

167

J2-3
MOVE

168

W14-3
MOVE

169

D1-3
MOVE

170

155-56
KENOSHA COUNTY
SNOWMOBILE
ALLIANCE
MOVE

172

R2-1
MOVE

173

J4-1
MOVE

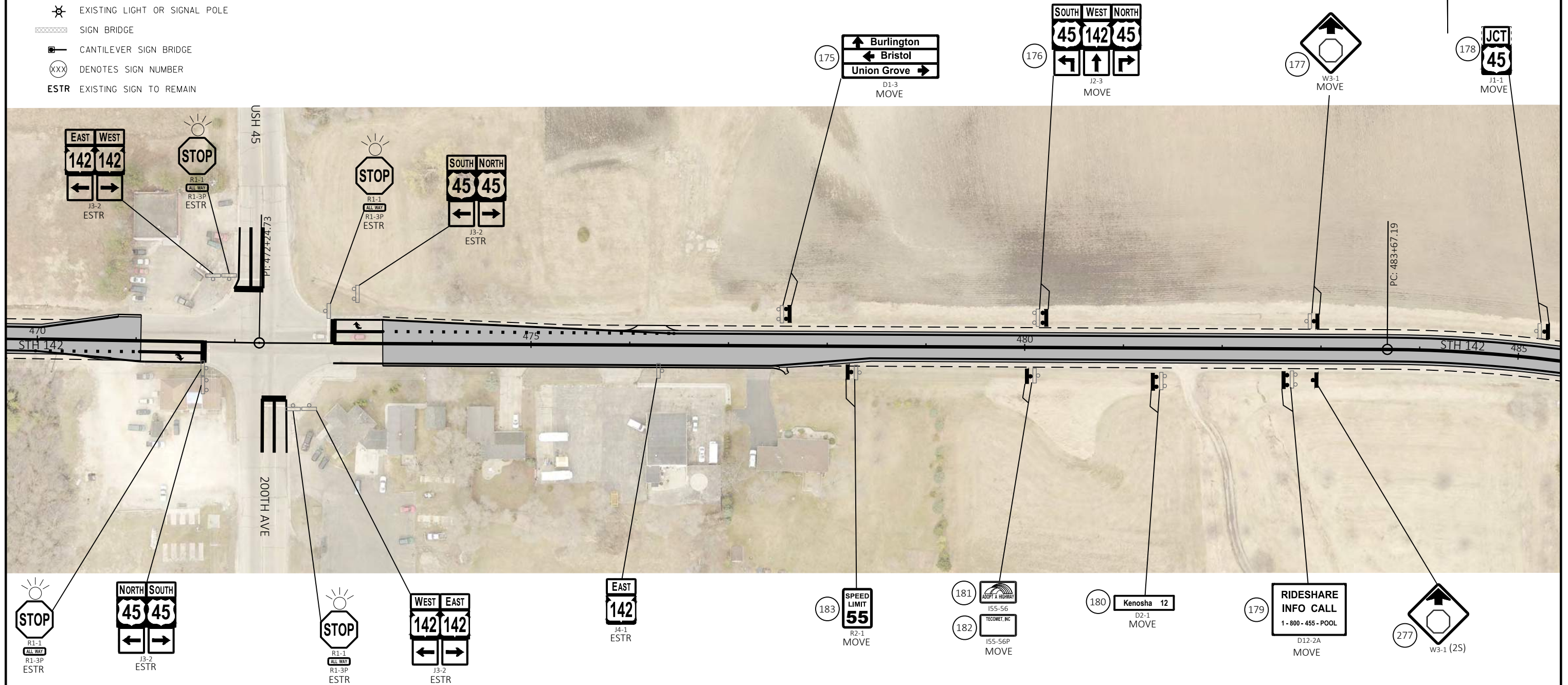
174

D2-1
MOVE

LEGEND

- EXISTING SIGN MOUNTED ON POST(S)
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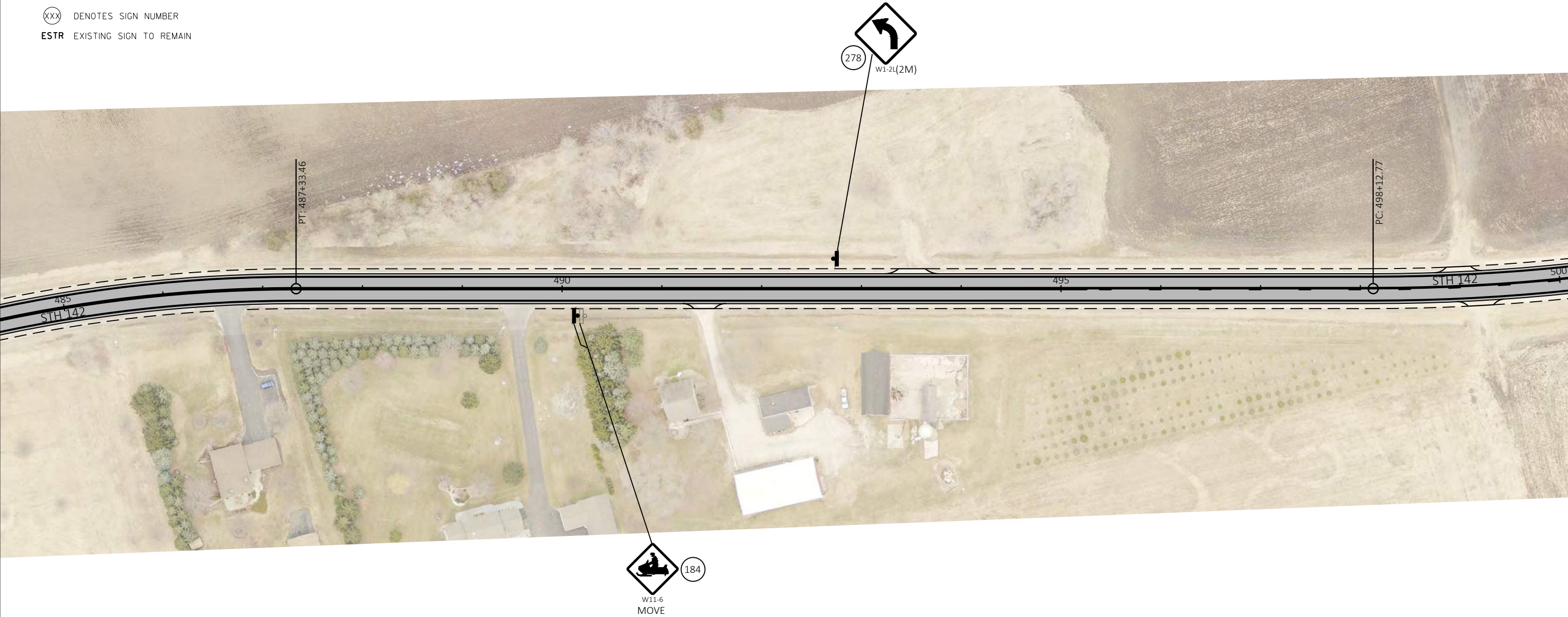
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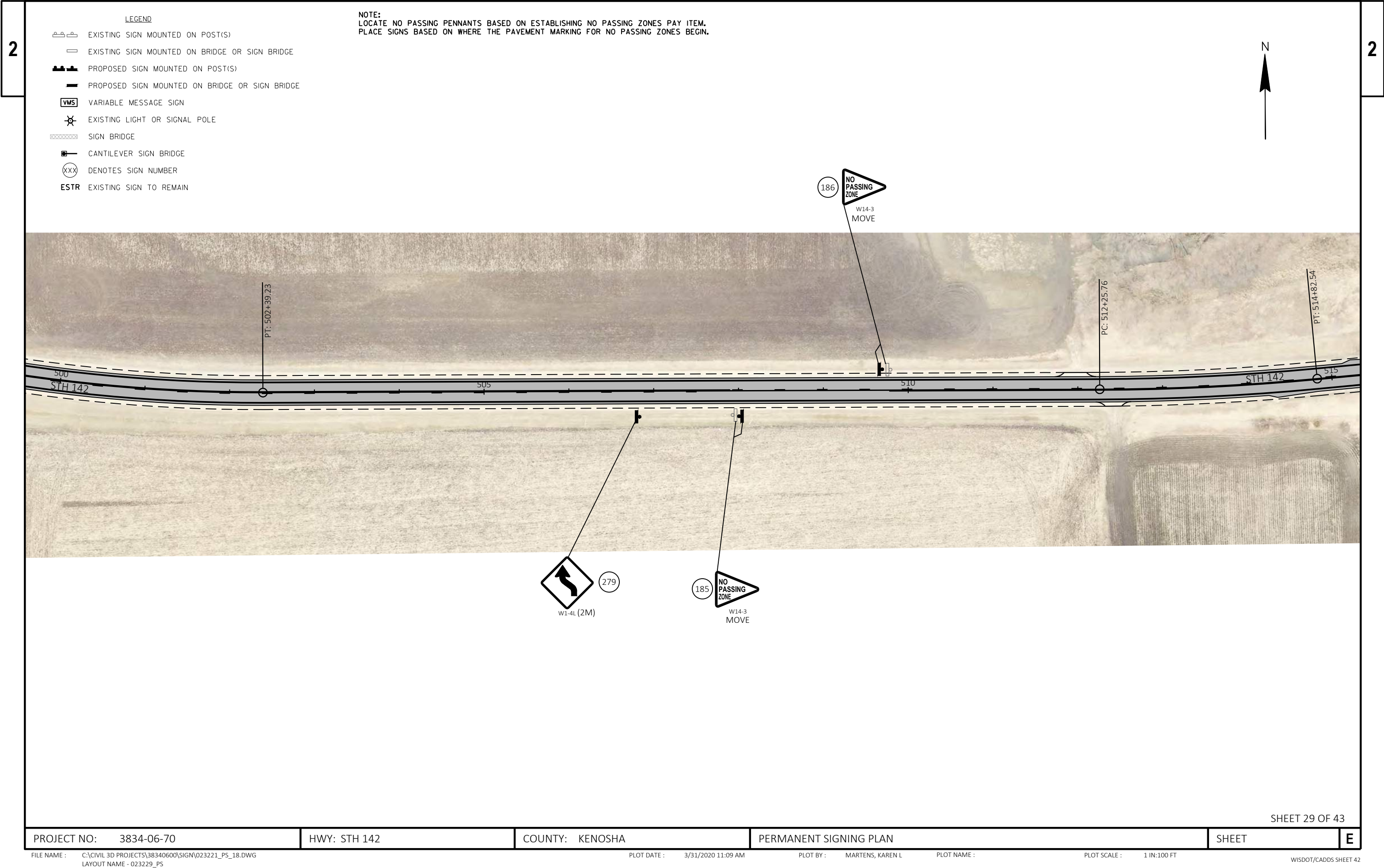


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LOCATE NO PASSING PENNANTS BASED ON ESTABLISHING NO PASSING ZONES PAY ITEM.
PLACE SIGNS BASED ON WHERE THE PAVEMENT MARKING FOR NO PASSING ZONES BEGIN.

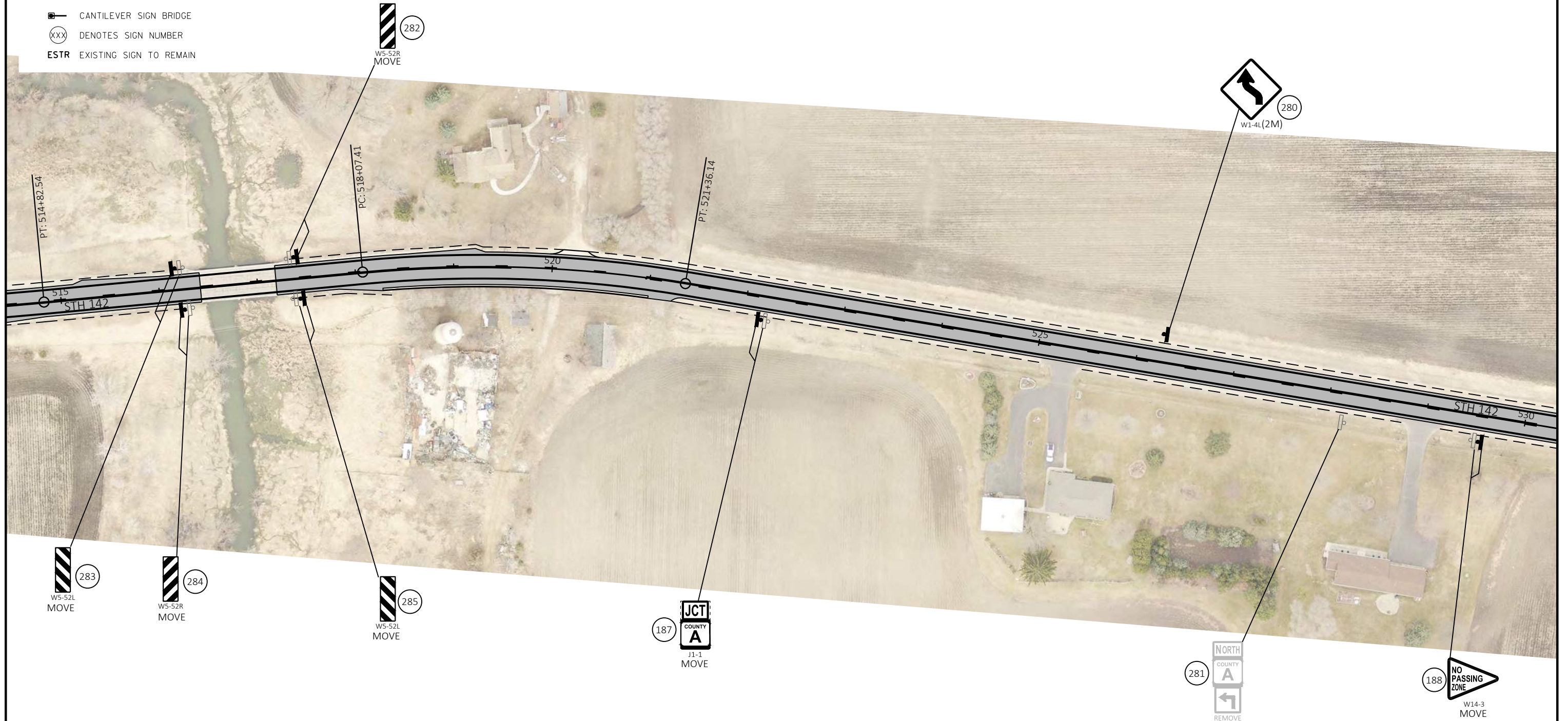




LEGEND

- 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
- DENOTES SIGN NUMBER
- ESTR EXISTING SIGN TO REMAIN

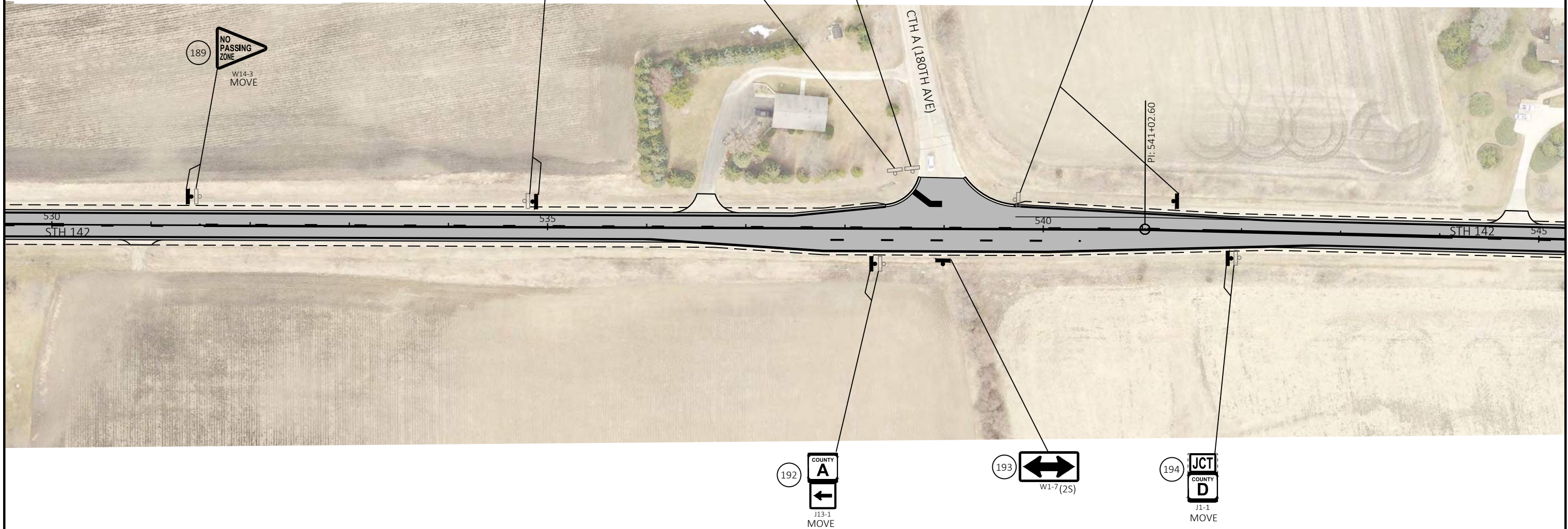
NOTE:
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- PROPOSED SIGN MOUNTED ON POST(S)
- PROPOSED SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
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- EXISTING LIGHT OR SIGNAL POLE
- SIGN BRIDGE
- CANTILEVER SIGN BRIDGE
- DENOTES SIGN NUMBER
- ESTR EXISTING SIGN TO REMAIN

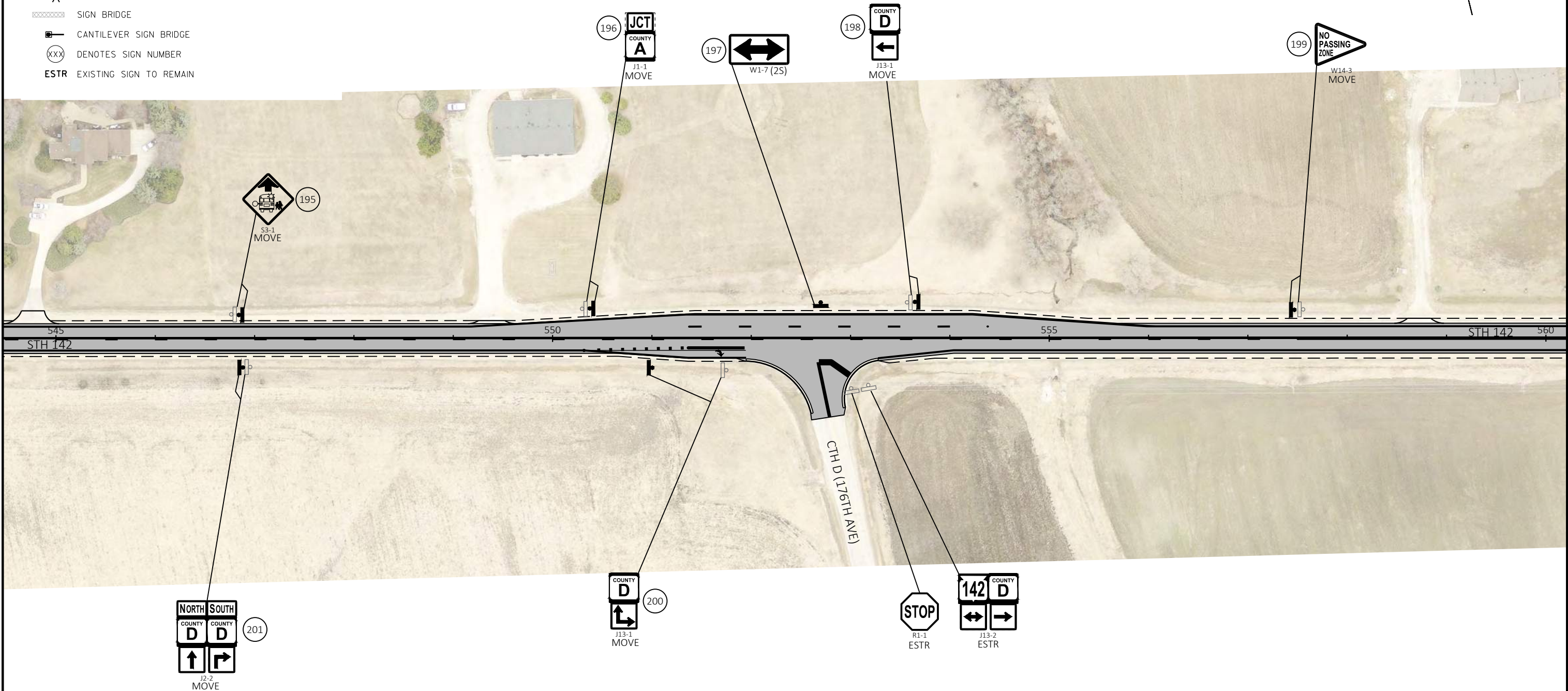
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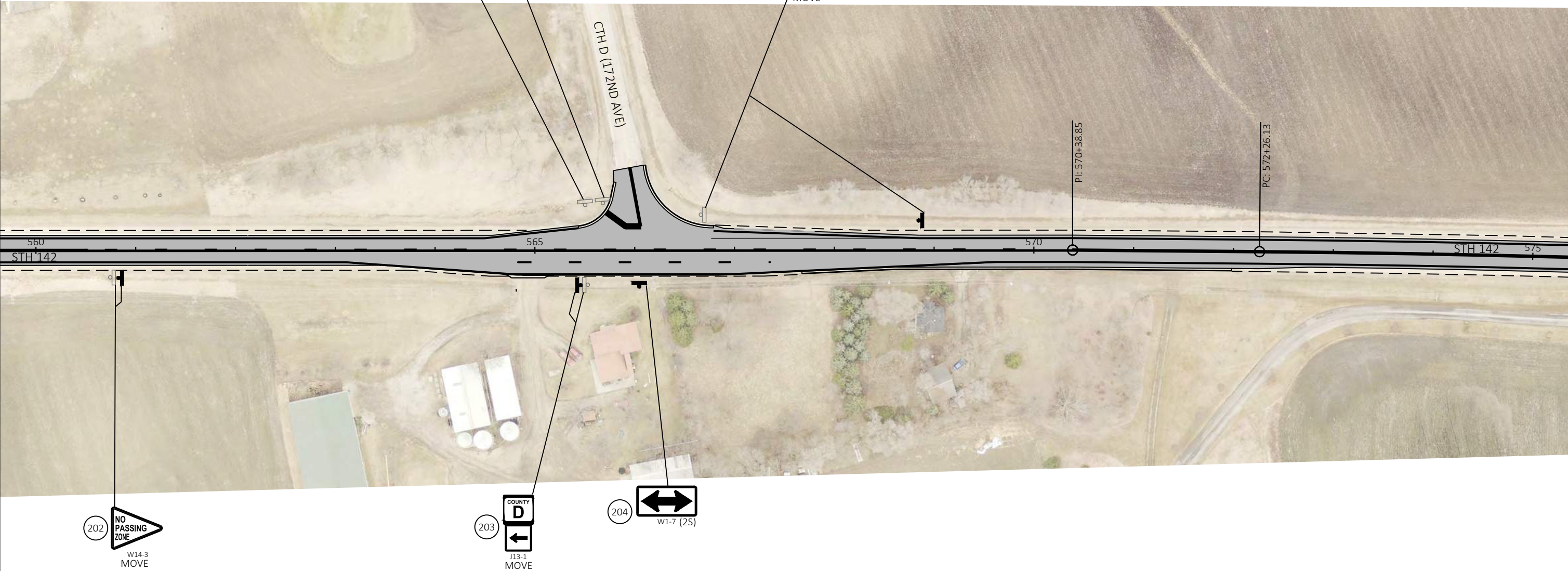
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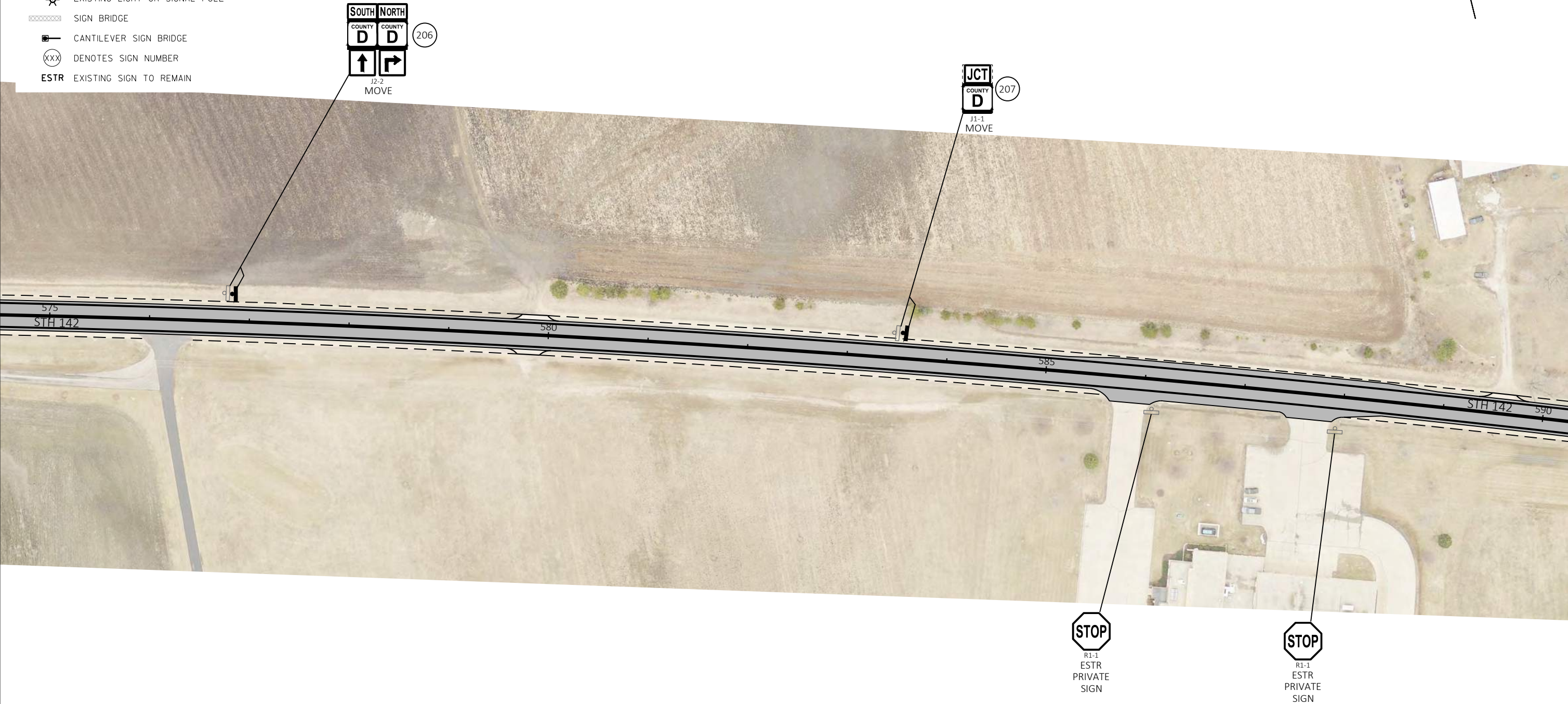
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- EXISTING SIGN TO REMAIN

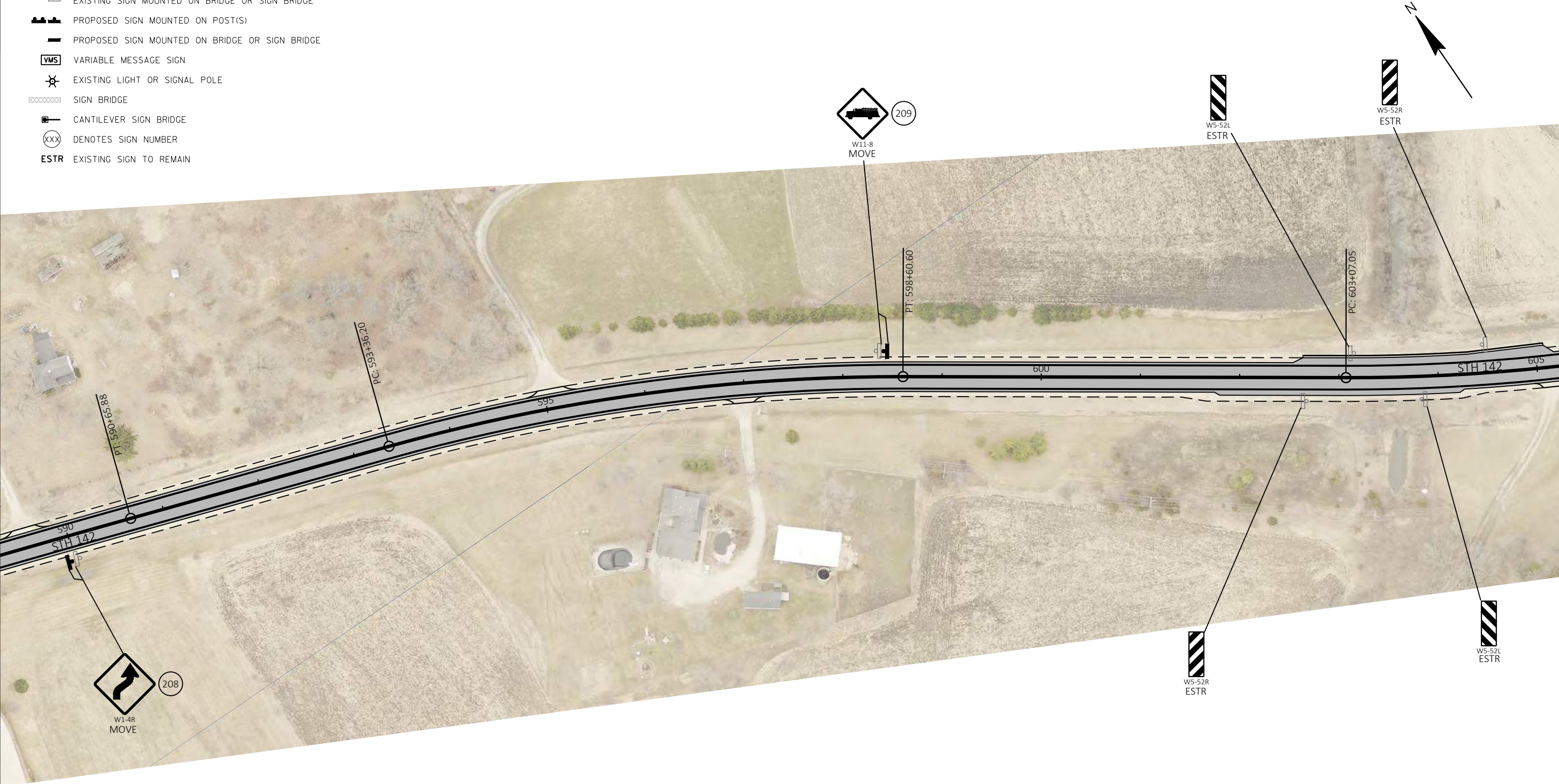
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- EXISTING LIGHT OR SIGNAL POLE
- SIGN BRIDGE
- CANTILEVER SIGN BRIDGE
- DENOTES SIGN NUMBER
- EXISTING SIGN TO REMAIN

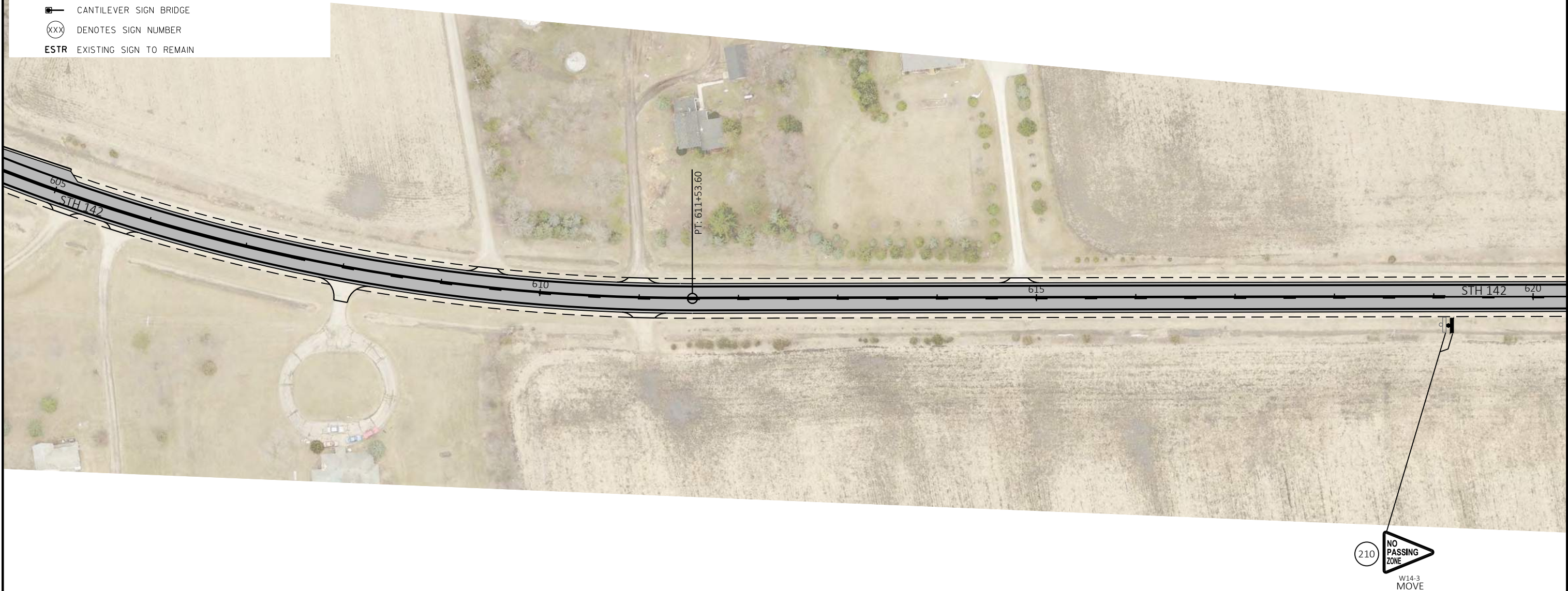
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- DENOTES SIGN NUMBER
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IS5-56P
MOVE

215

IS5-56P
MOVE

216

JCT
COUNTY
MB

J1-1
MOVE

212

NORTH SOUTH
COUNTY COUNTY
MB MB

12-2
MOVE

213

TRUCK
CROSSING

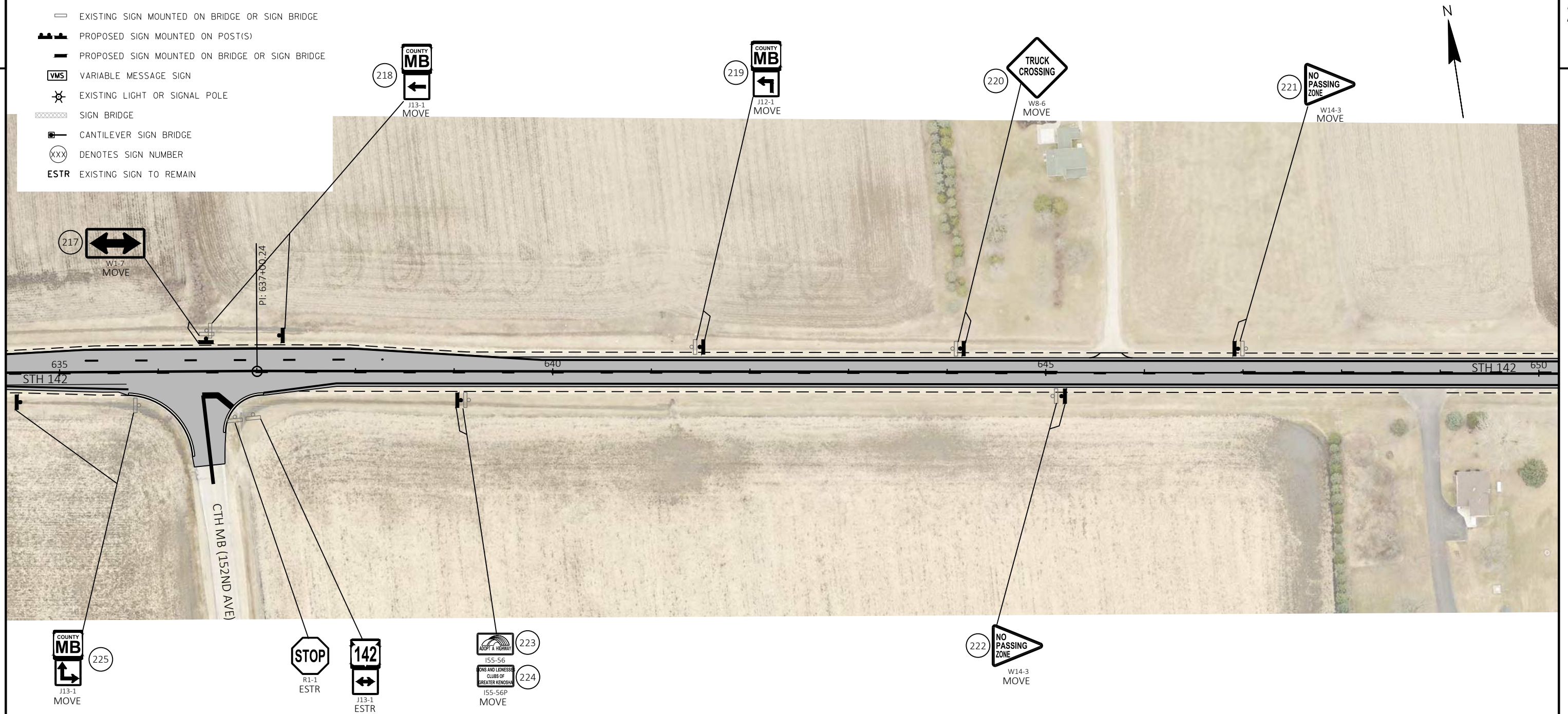
W8-6
MOVE

214

LEGEND

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 PROPOSED SIGN MOUNTED ON POST(S)
 PROPOSED SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
 VARIABLE MESSAGE SIGN
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226
JCT
COUNTY
MB
J1-1
MOVE

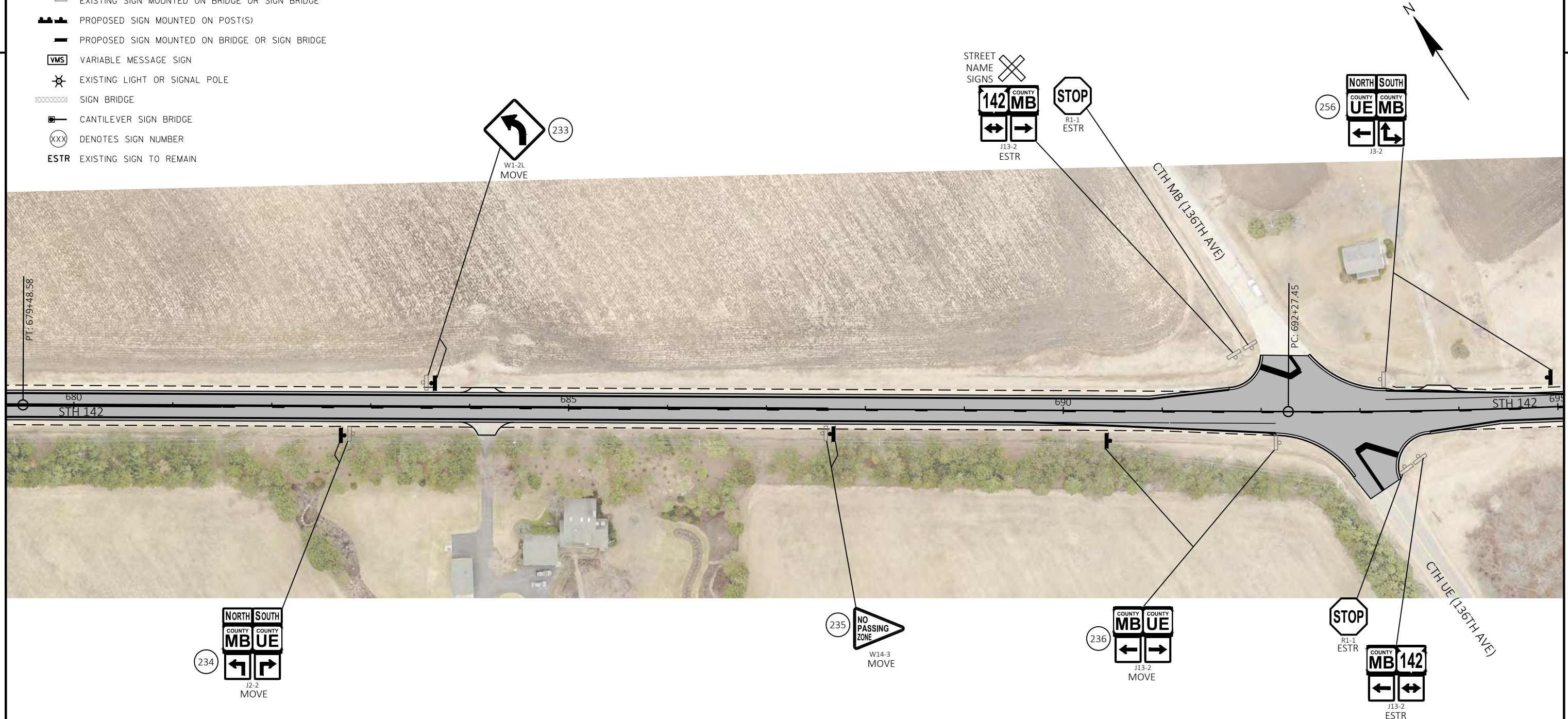




LEGEND

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

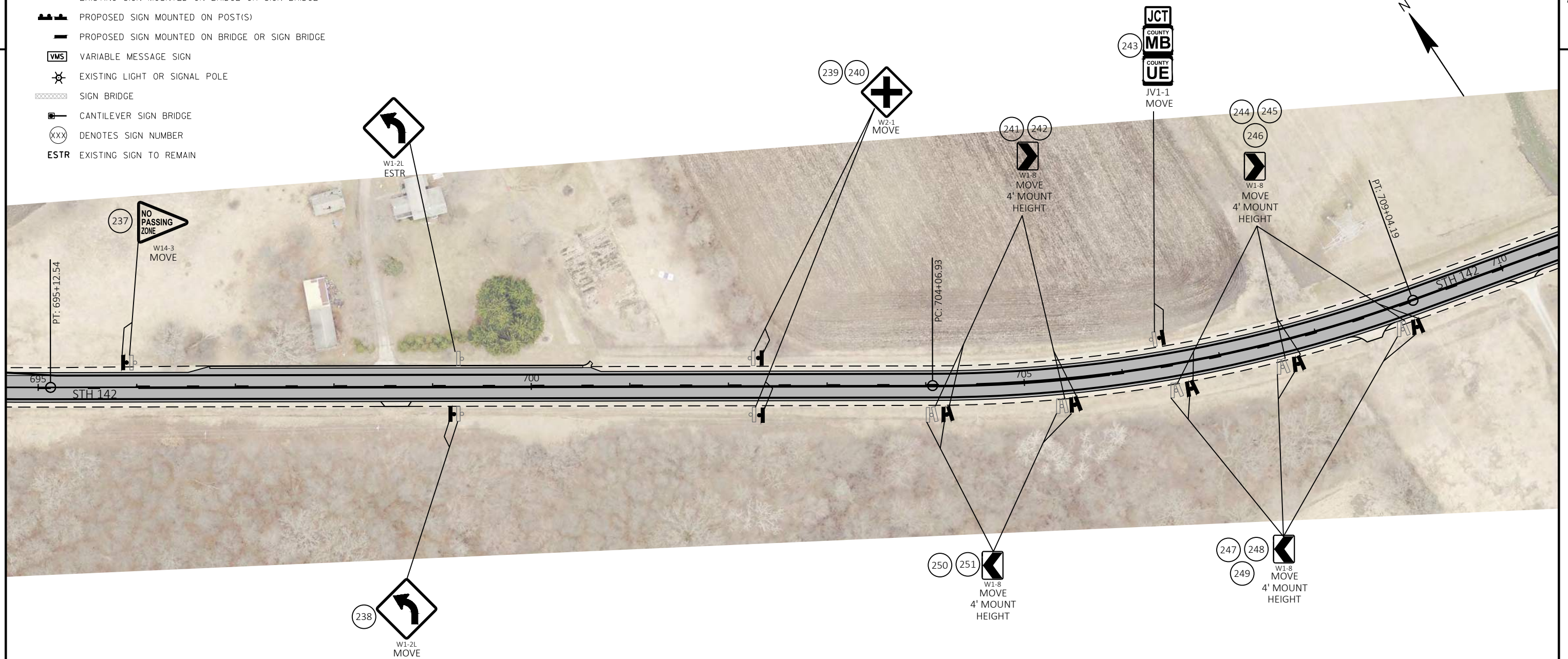
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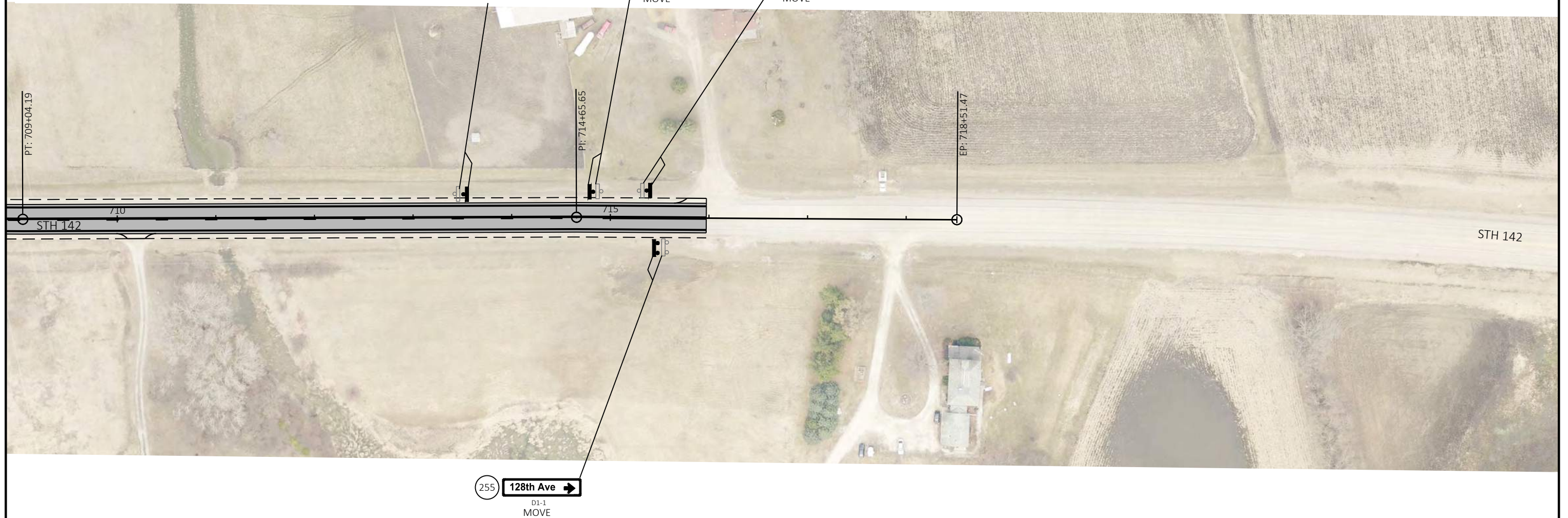


LEGEND

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 EXISTING SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
 PROPOSED SIGN MOUNTED ON POST(S)
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N



SHEET 43 OF 43

PROJECT NO: 3834-06-70

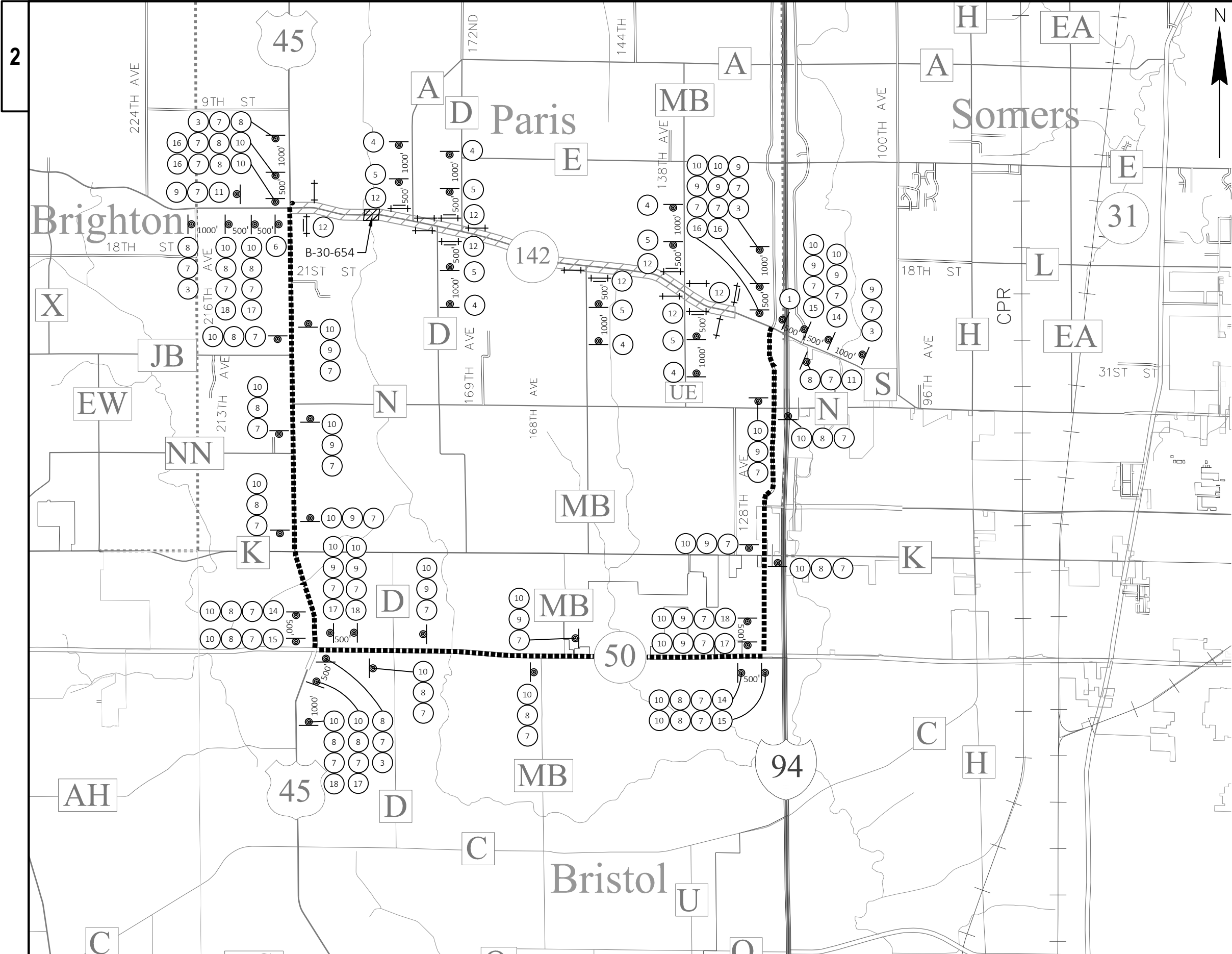
HWY: STH 142

COUNTY: KENOSHA

PERMANENT SIGNING PLAN

SHEET

E



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.

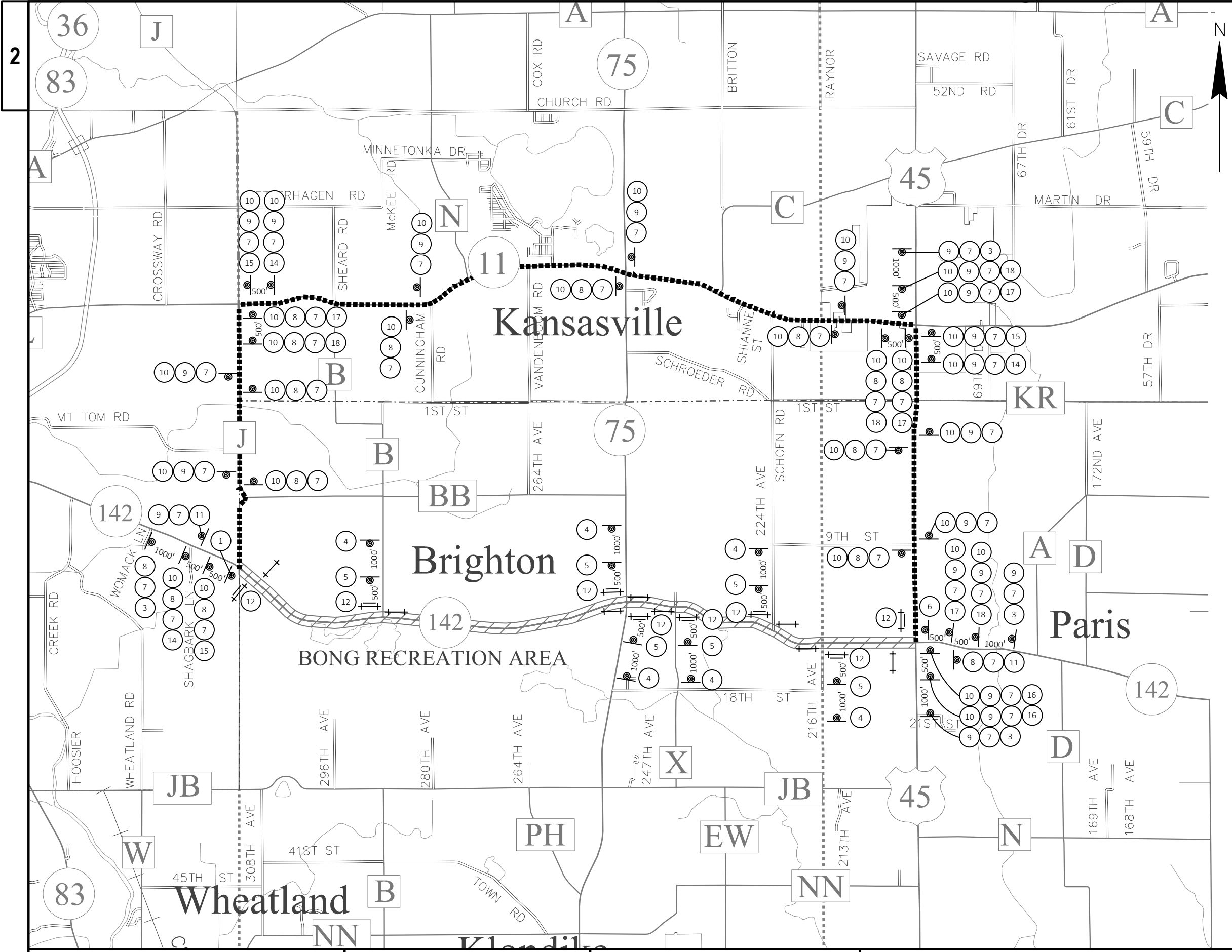
ANY EXISTING TRAFFIC SIGNS THAT CONFLICT WITH THIS WORK SHALL BE COVERED AS DIRECTED BY THE ENGINEER.

USE SIZE 3 SIGN ON FREEWAY.

1		6		7		14	
2		8		9		15	
3		10		11		16	
4		12		13		17	
5		18		19		20	

LEGEND

	TYPE III BARRICADE
	TYPE III BARRICADE WITH ATTACHED SIGN
	SIGN ON PERMANENT SUPPORT
	SIGN ON TEMPORARY SUPPORT
	WORK ZONE
	DIRECTION OF TRAFFIC
	SIGN NUMBER
	DISTANCE BETWEEN SIGNS
	DETOUR ROUTE



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USE SIZE 3 SIGN ON FREEWAY.

1

2

3

4

5

6

7

8

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10

11

12

13

14

15

16

17

18

19

20

DETOUR

DETOUR

142

ROAD WORK AHEAD

DETOUR AHEAD

ROAD CLOSED AHEAD

ROAD CLOSED 500 FT

EAST

WEST

DETOUR

END DETOUR

ROAD CLOSED TO THRU TRAFFIC

ROAD CLOSED XX MILES AHEAD LOCAL TRAFFIC ONLY

LEGEND

TYPE III BARRICADE

TYPE III BARRICADE WITH ATTACHED SIGN

SIGN ON PERMANENT SUPPORT

SIGN ON TEMPORARY SUPPORT

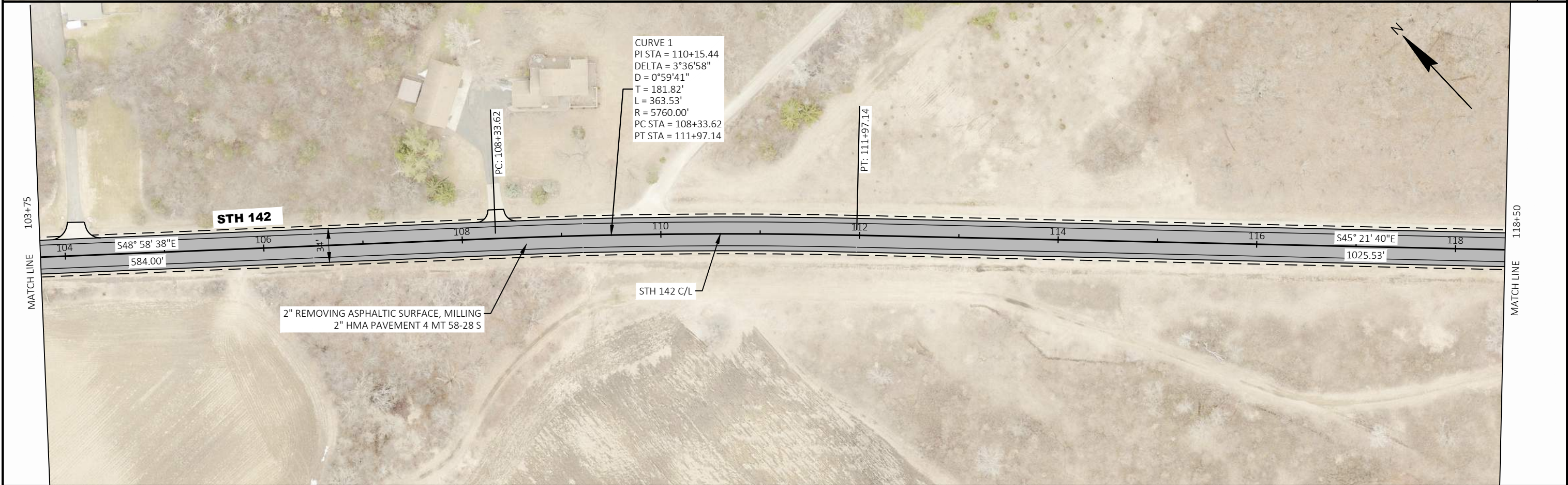
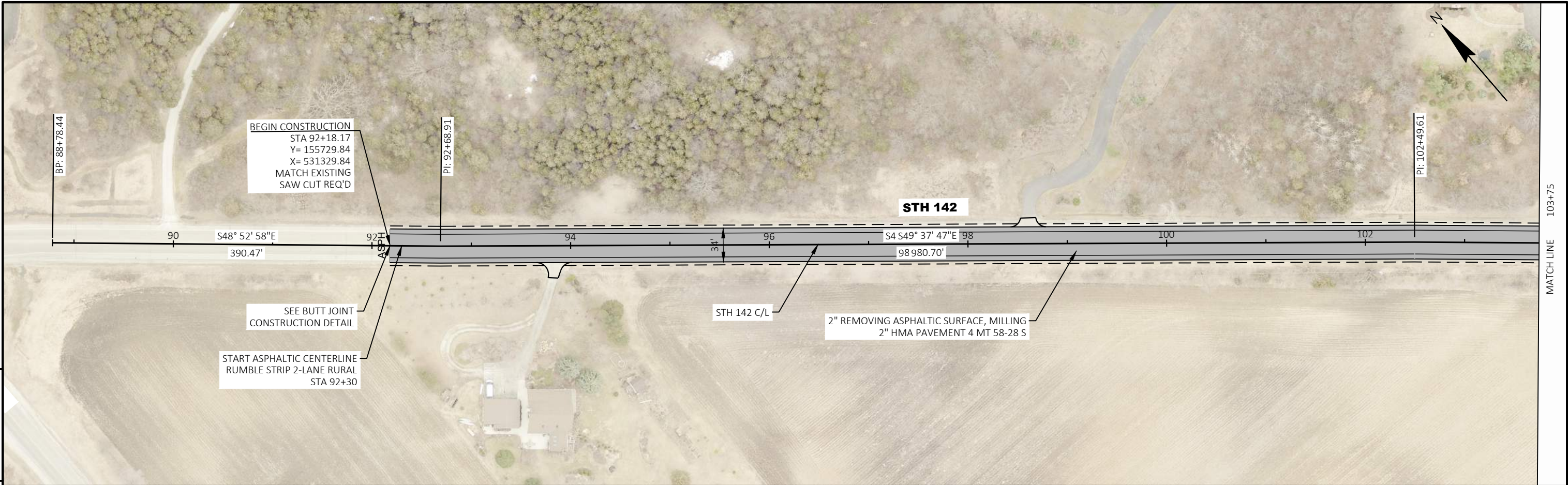
WORK ZONE

DIRECTION OF TRAFFIC

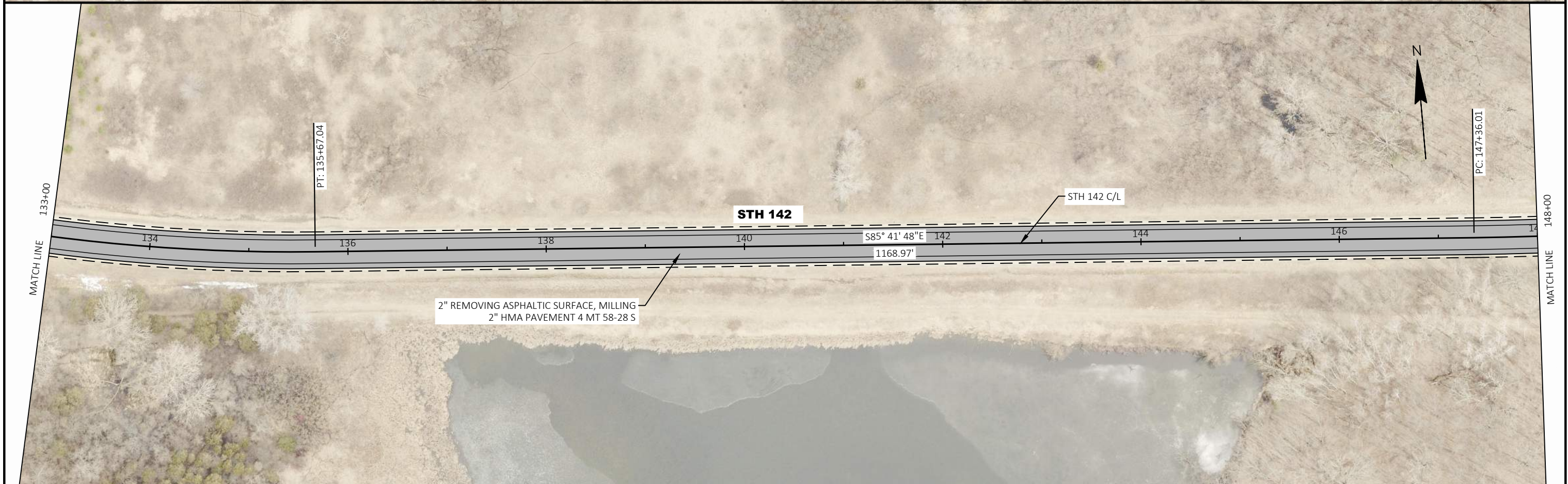
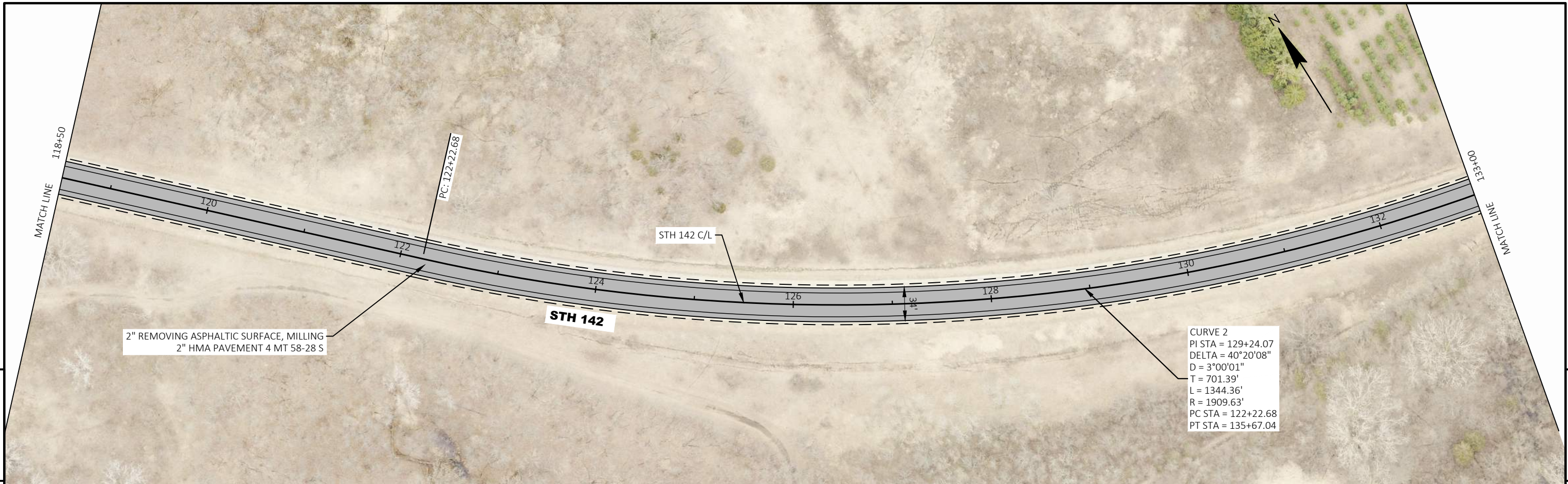
SIGN NUMBER

DISTANCE BETWEEN SIGNS

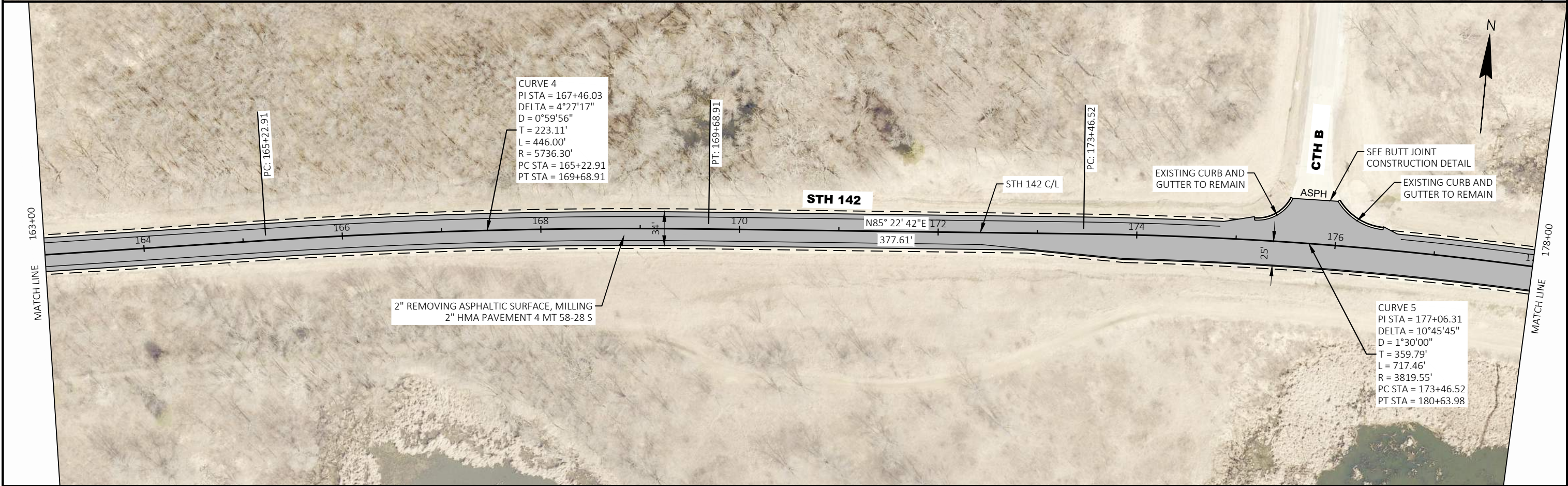
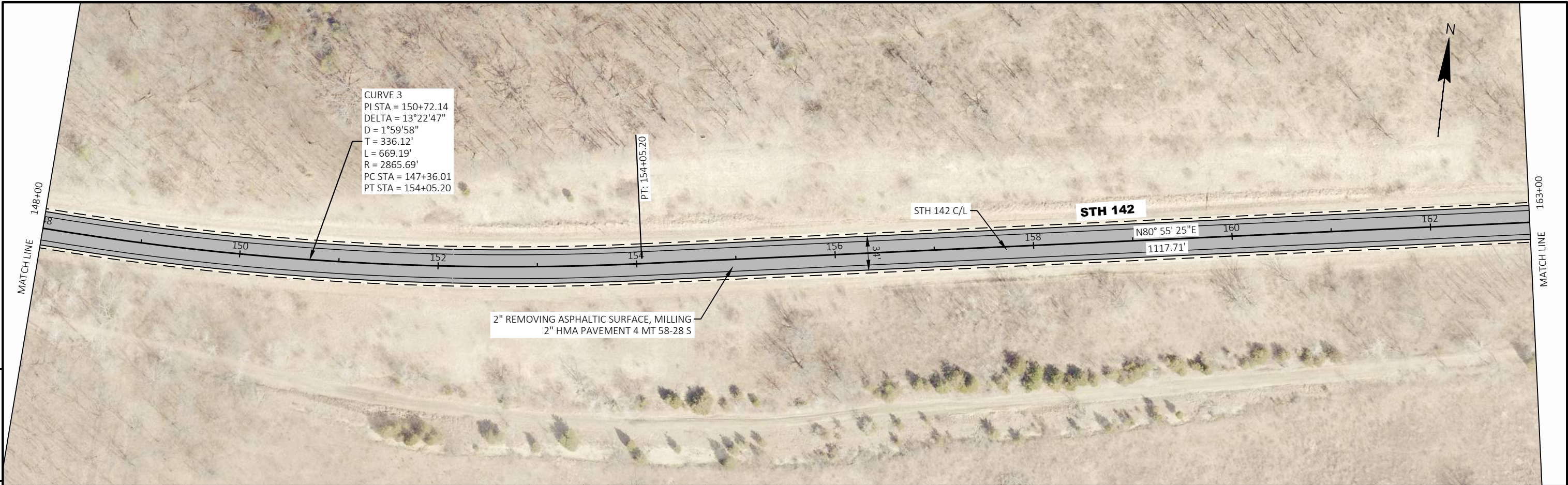
DETOUR ROUTE



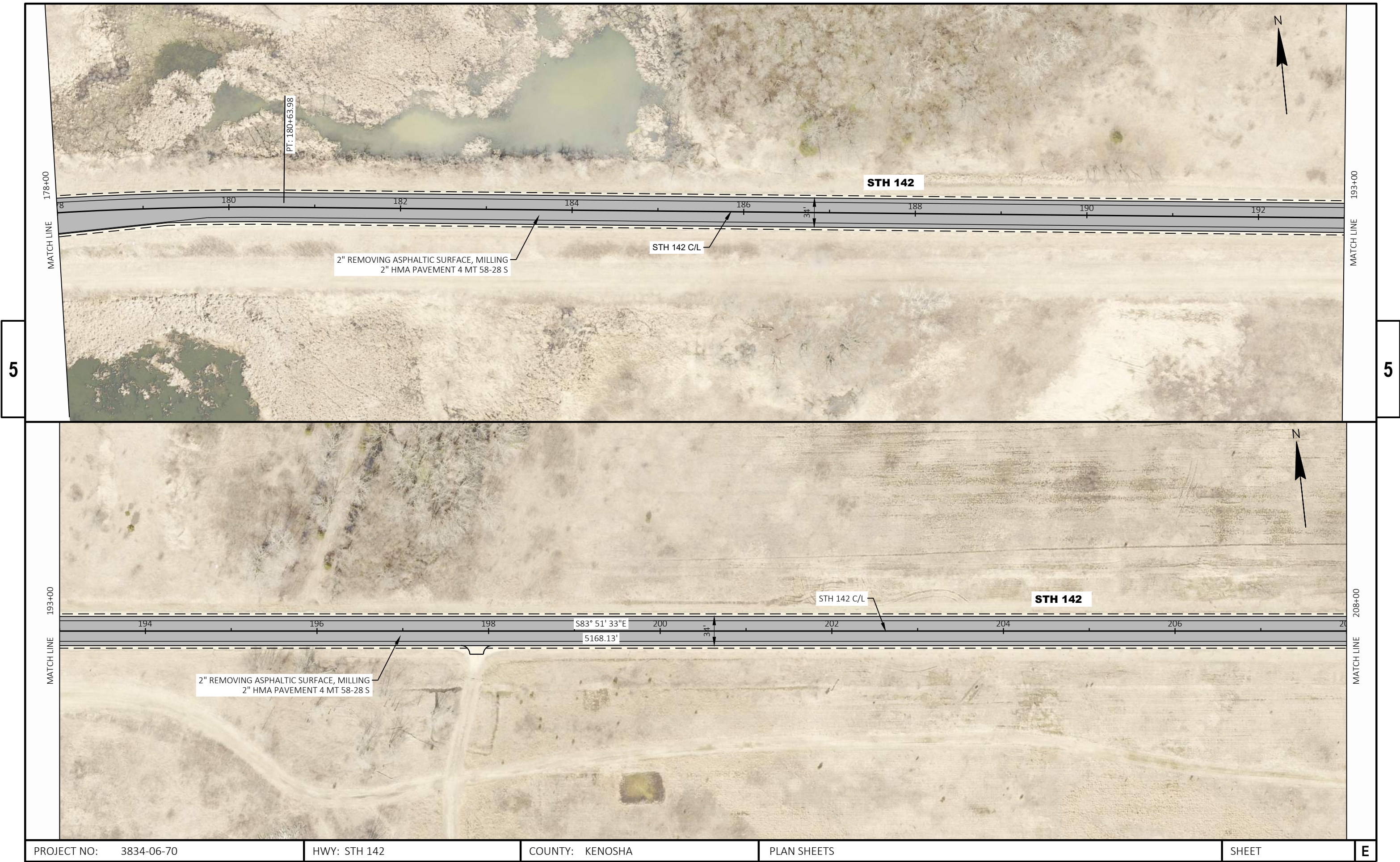
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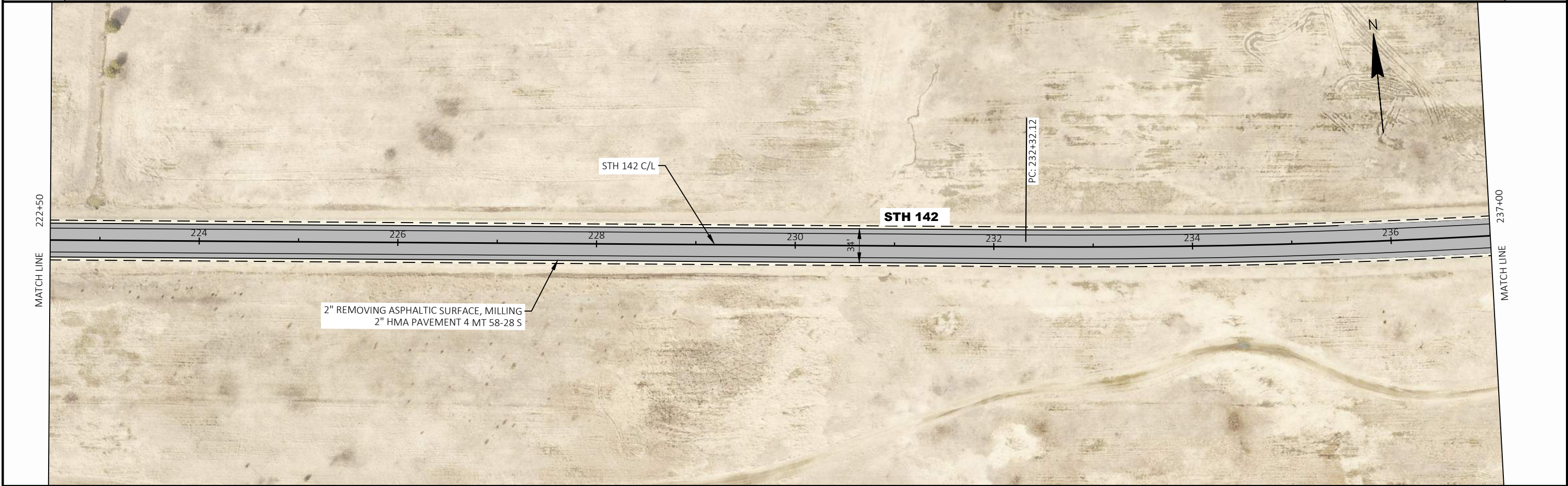
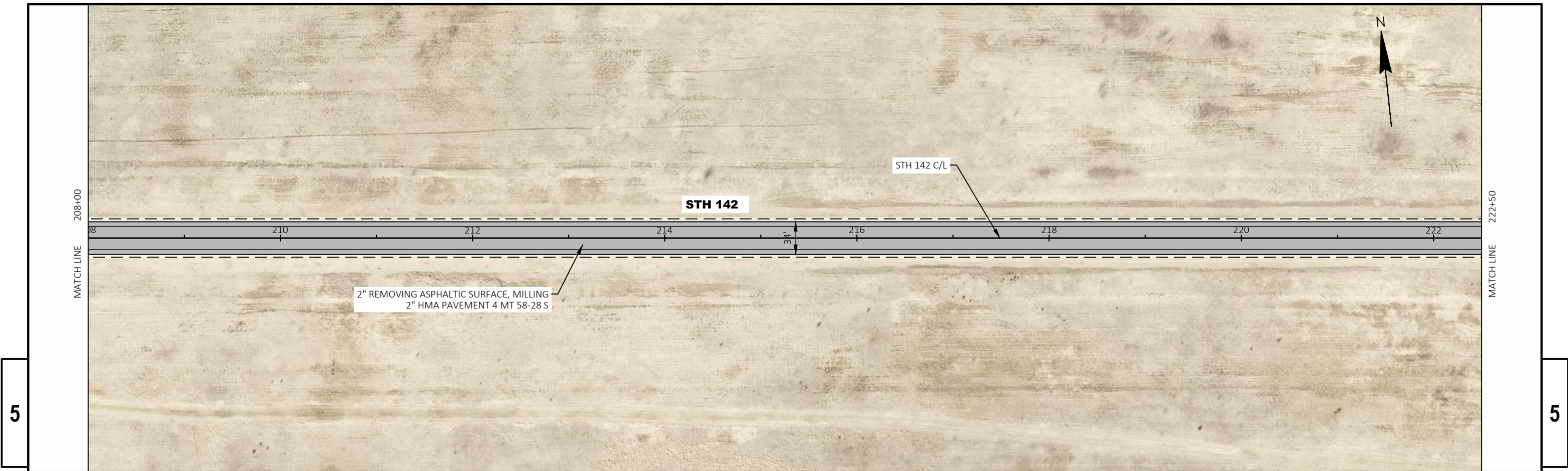
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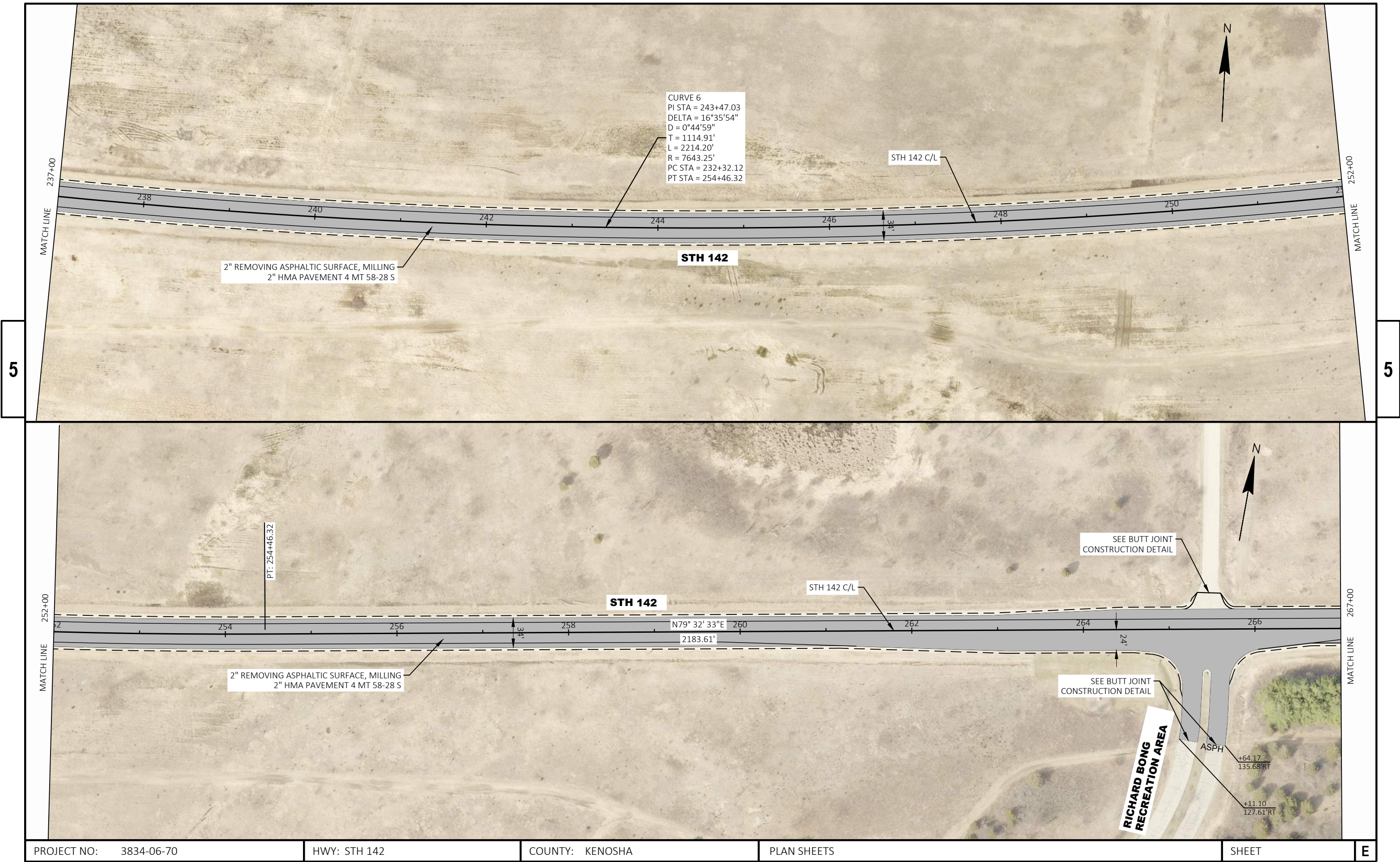
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PROJECT NO: 3834-06-70	HWY: STH 142	COUNTY: KENOSHA	PLAN SHEETS	SHEET	E
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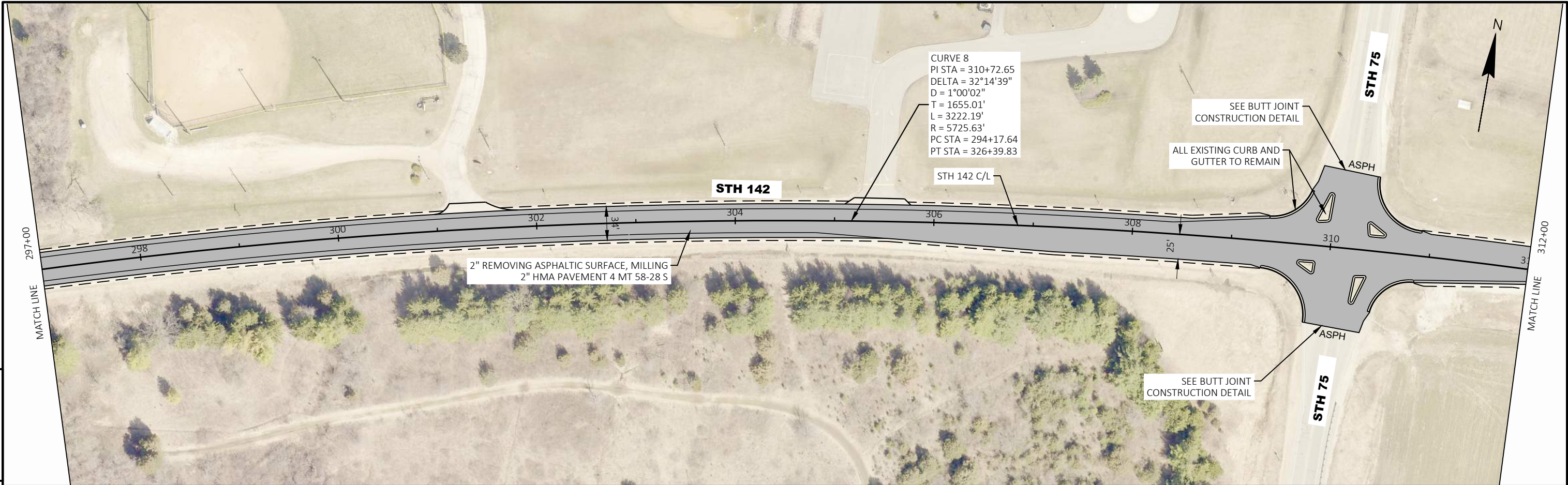


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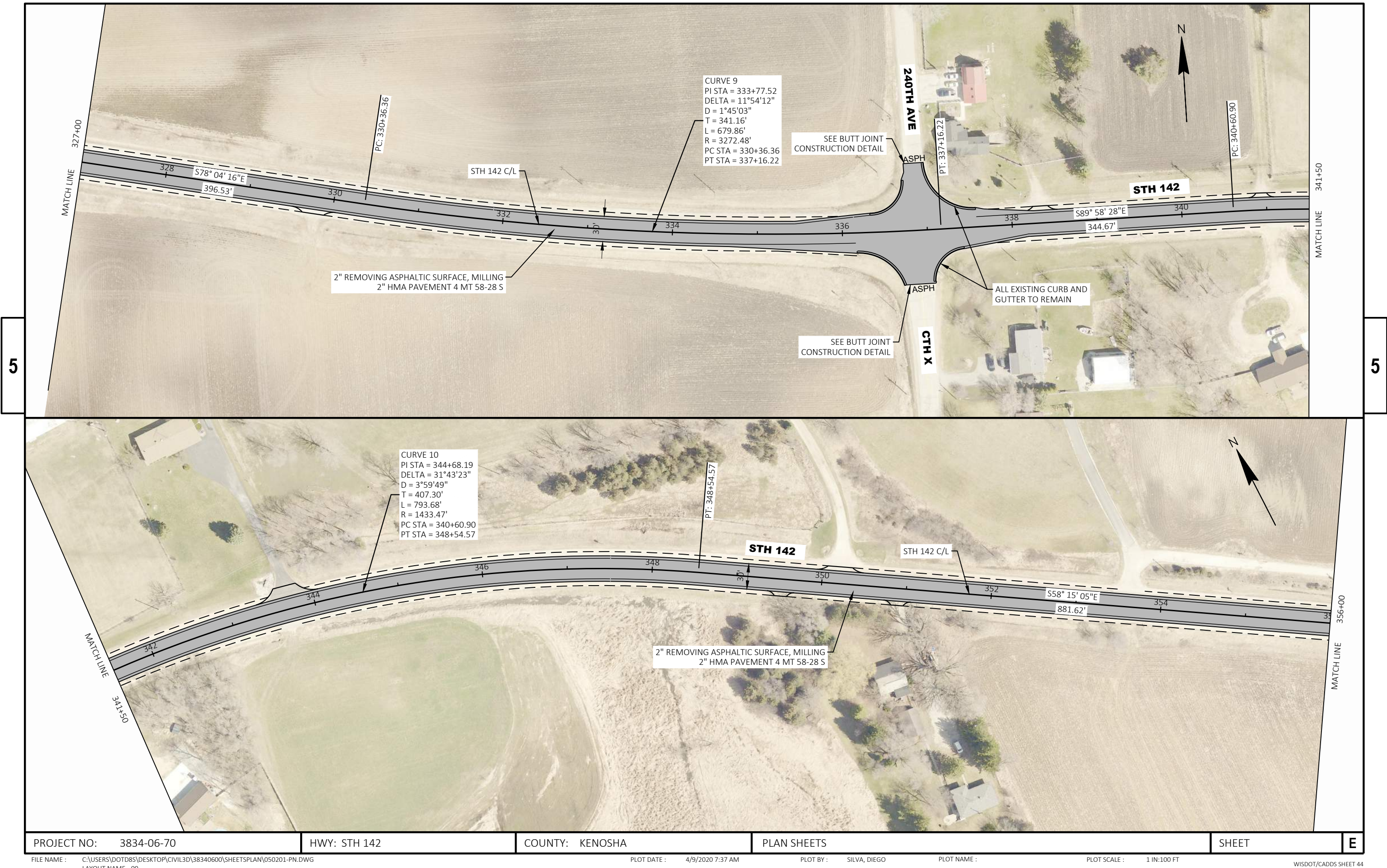


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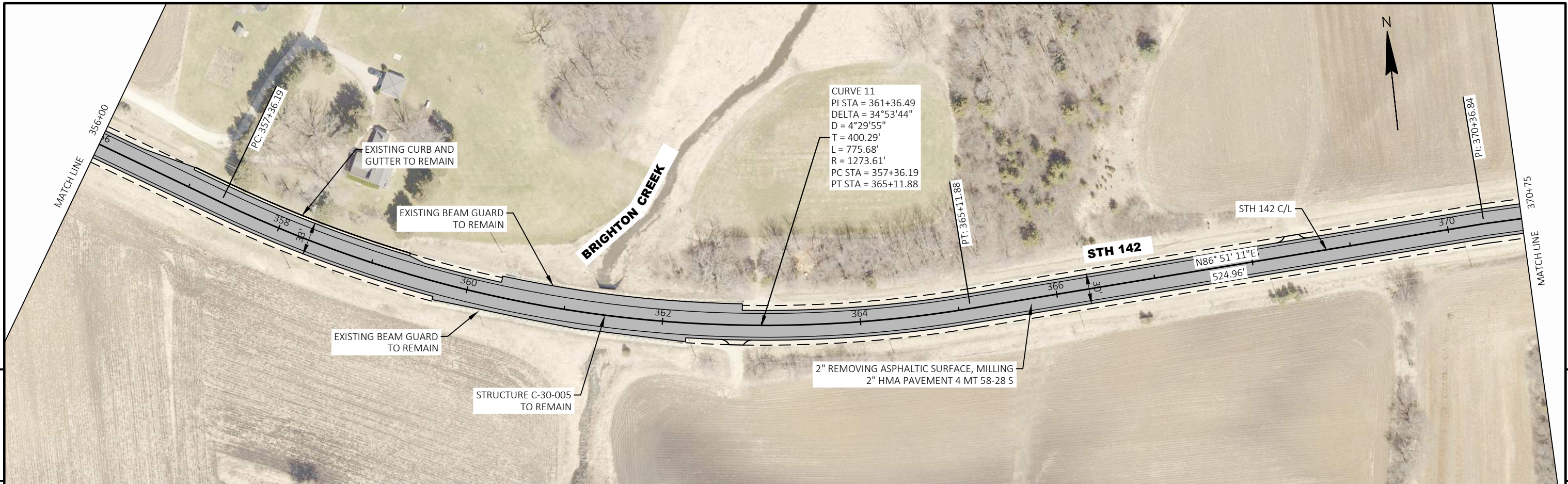




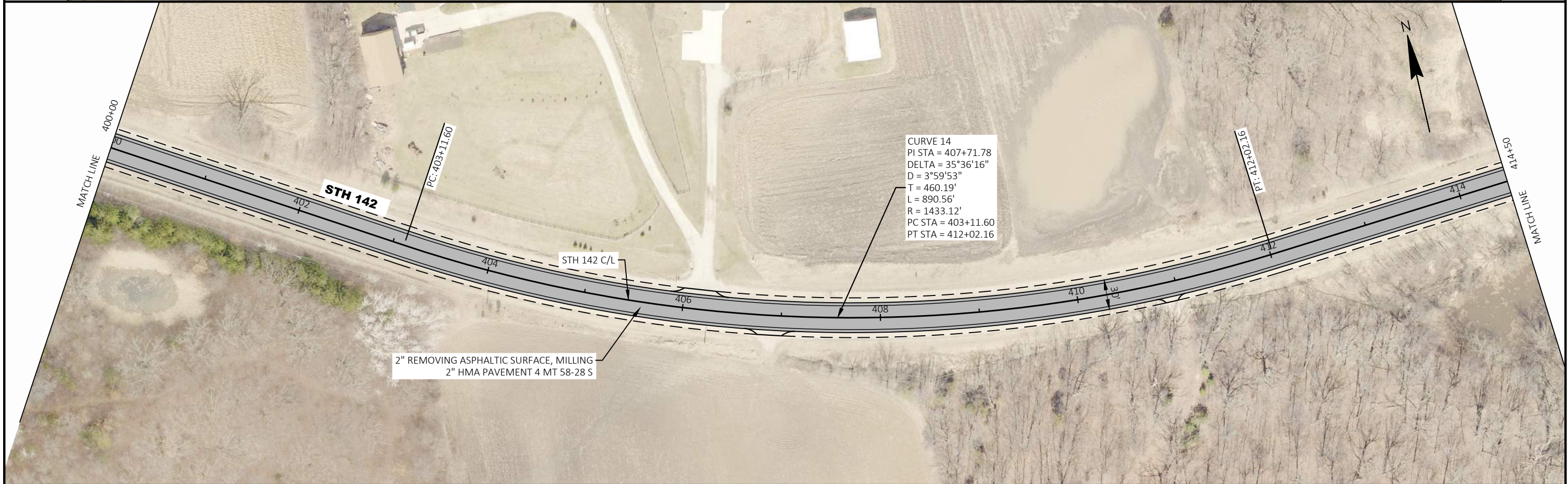
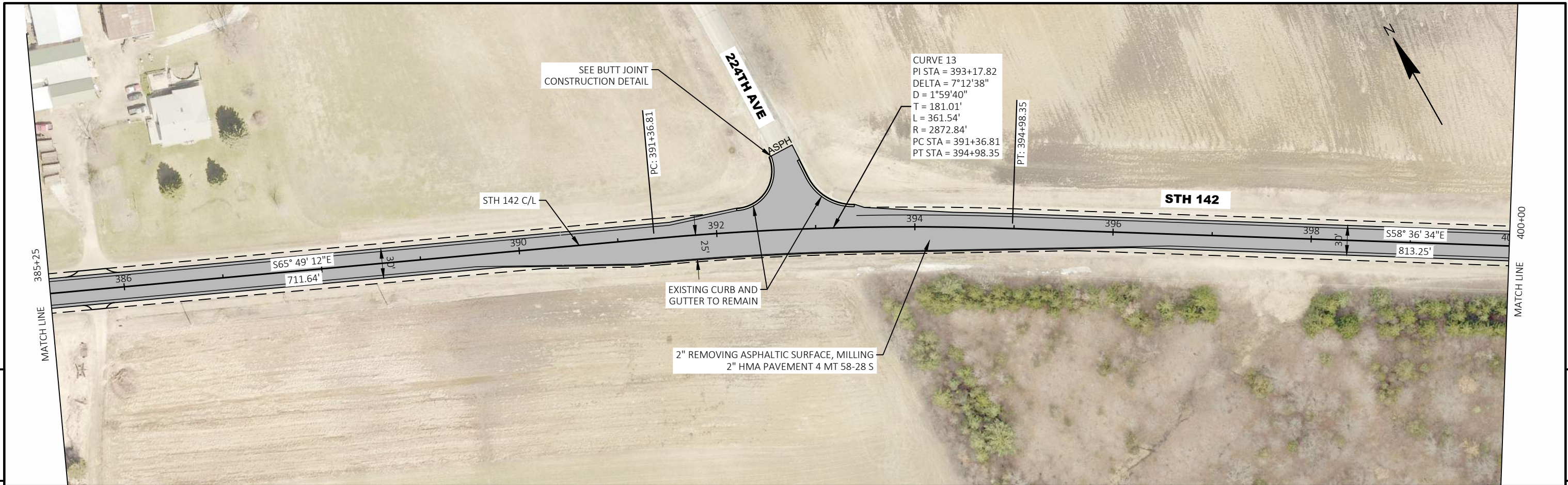
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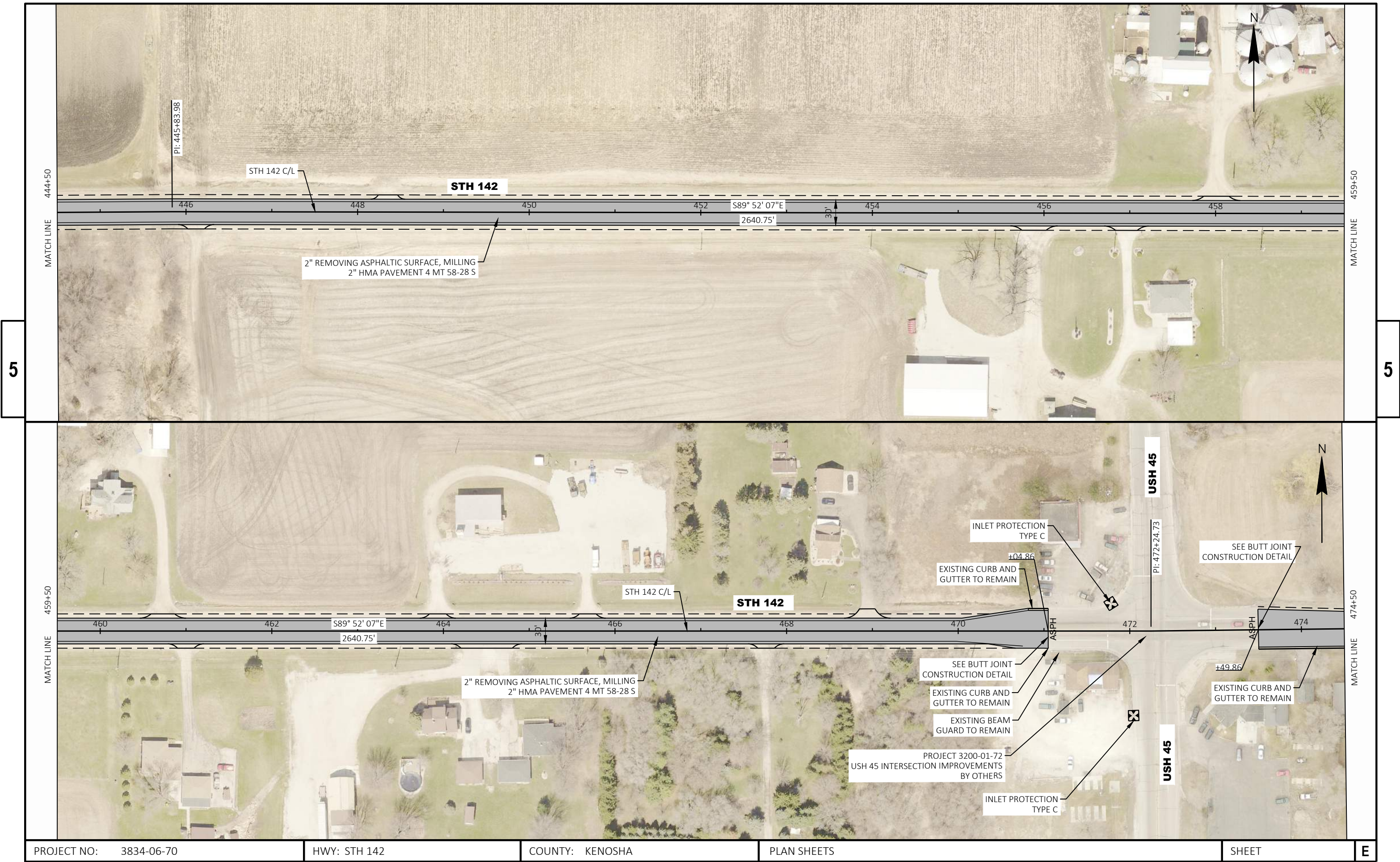
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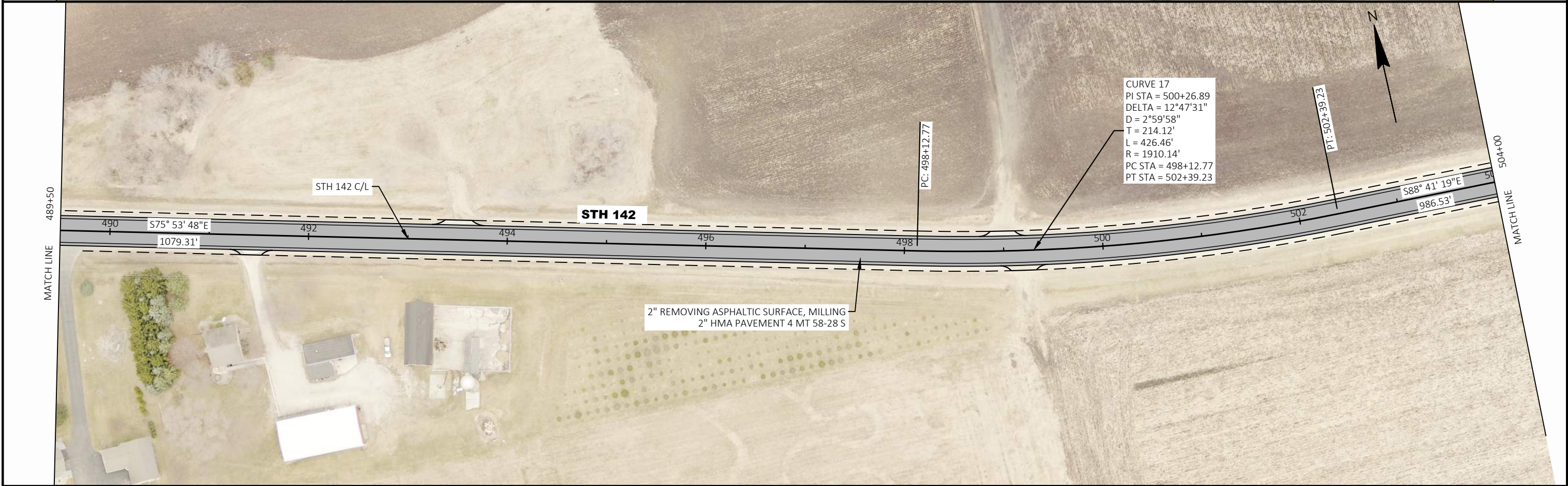
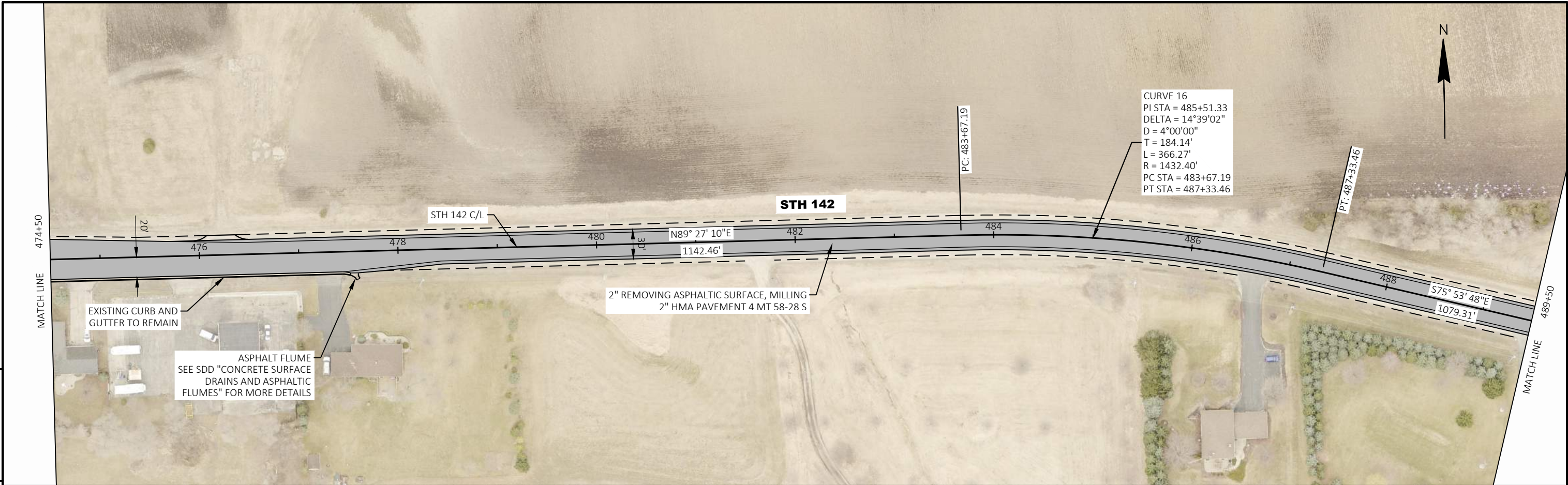
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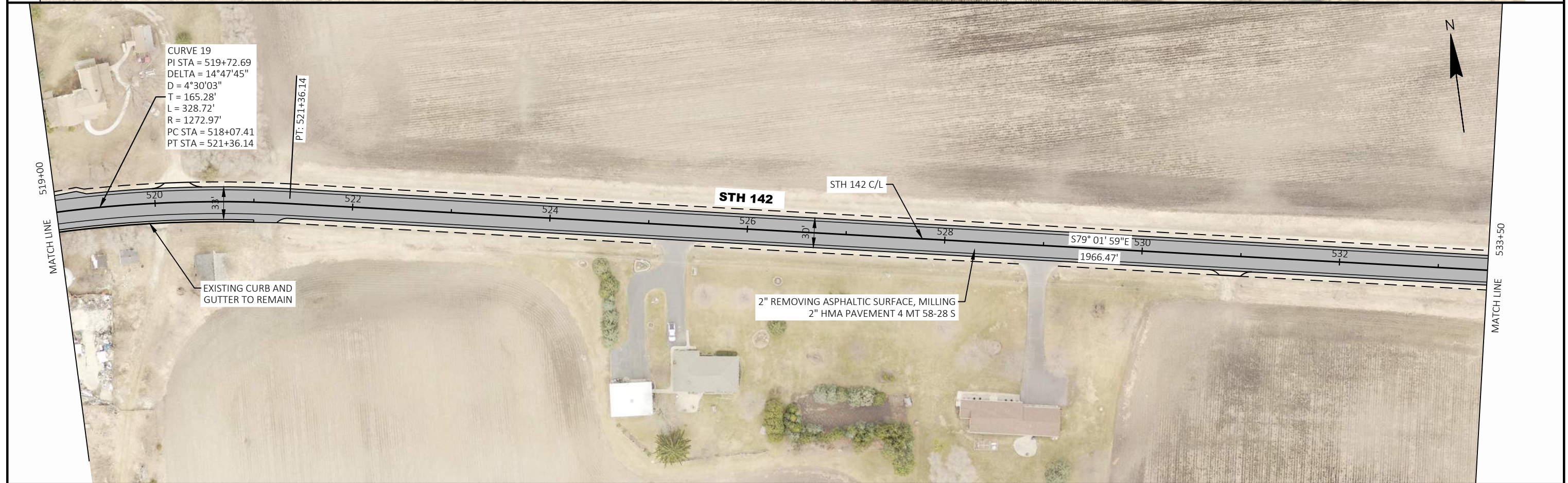
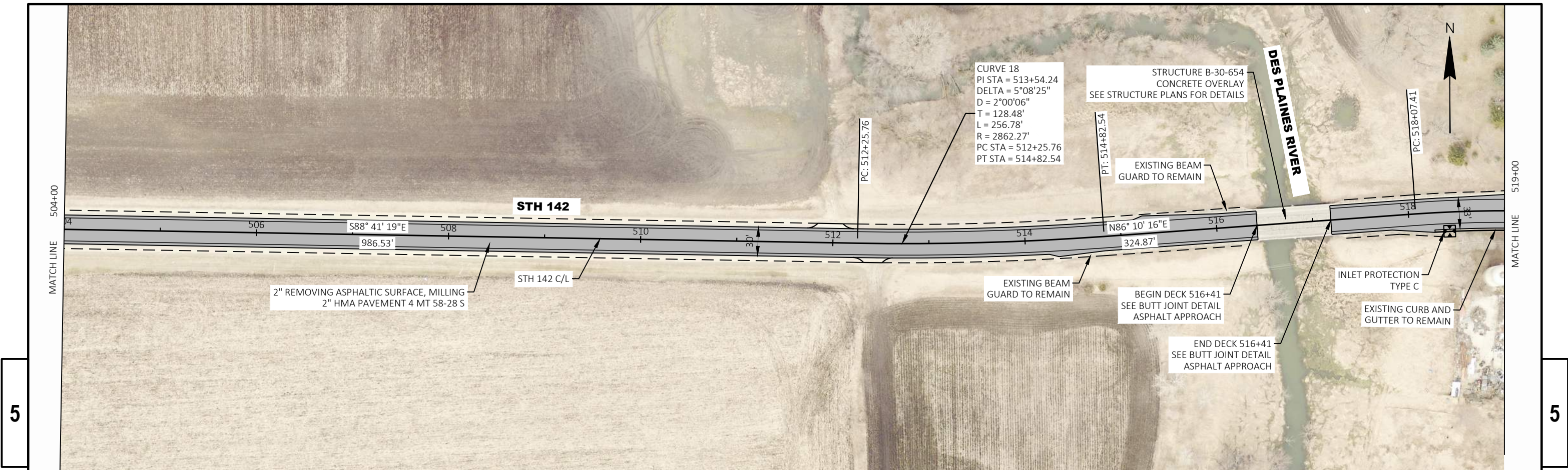
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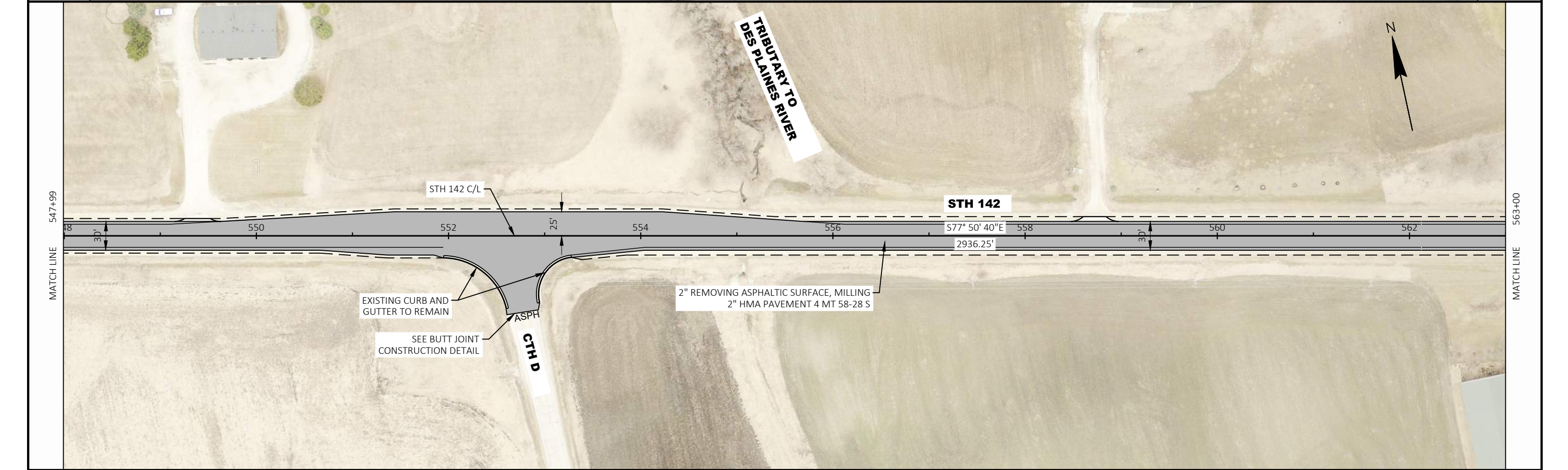
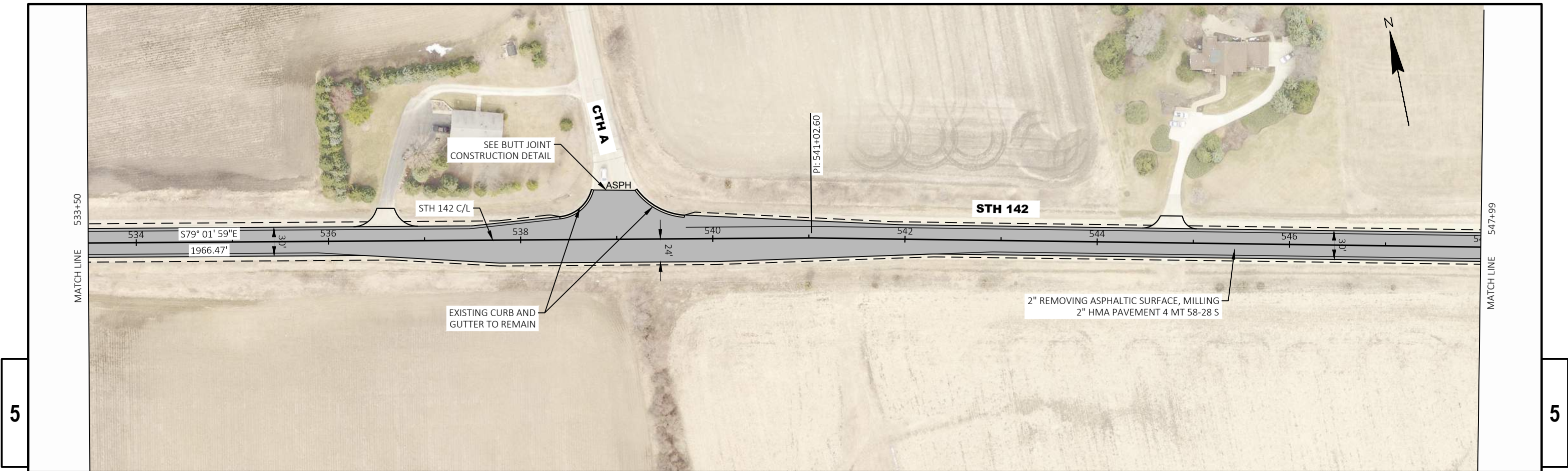
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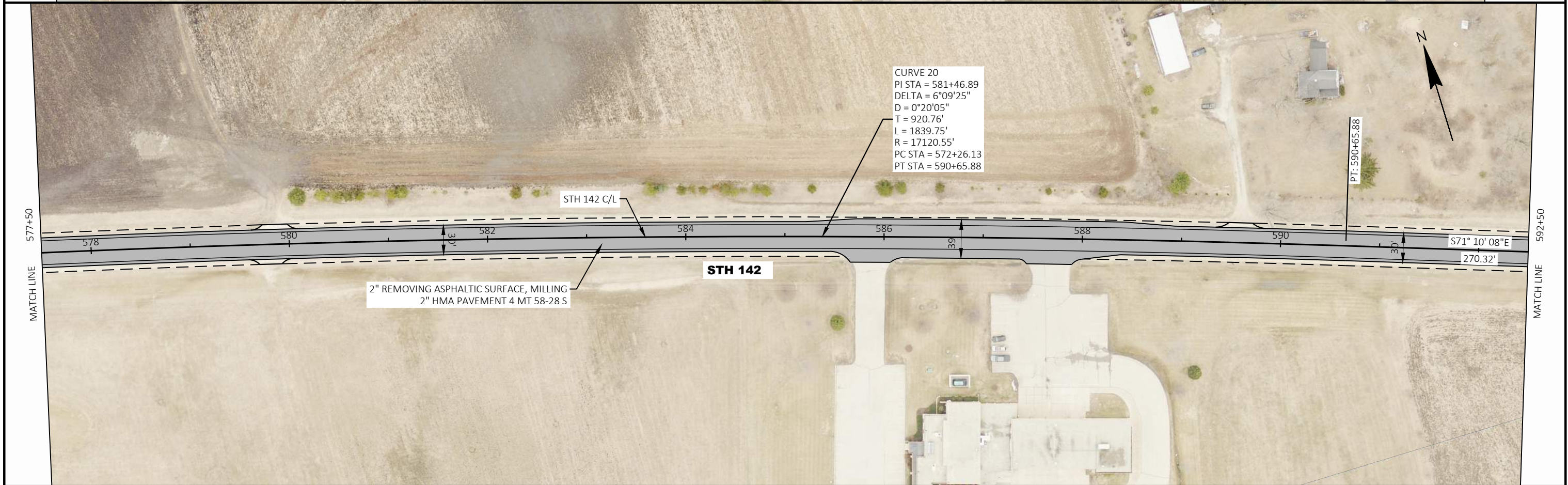
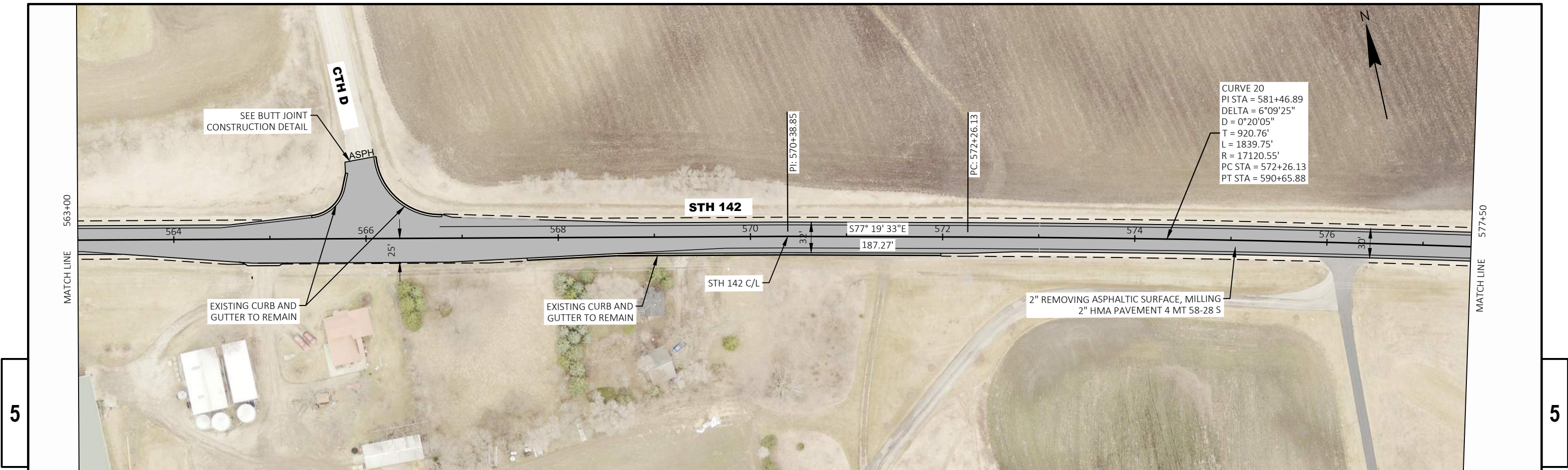
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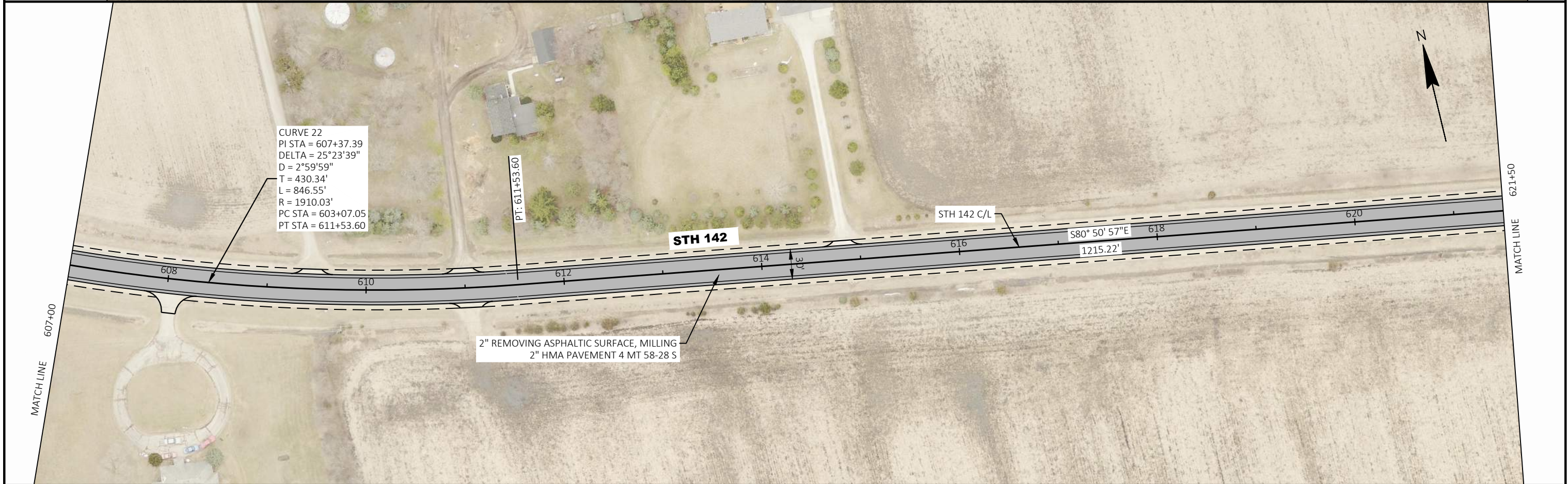
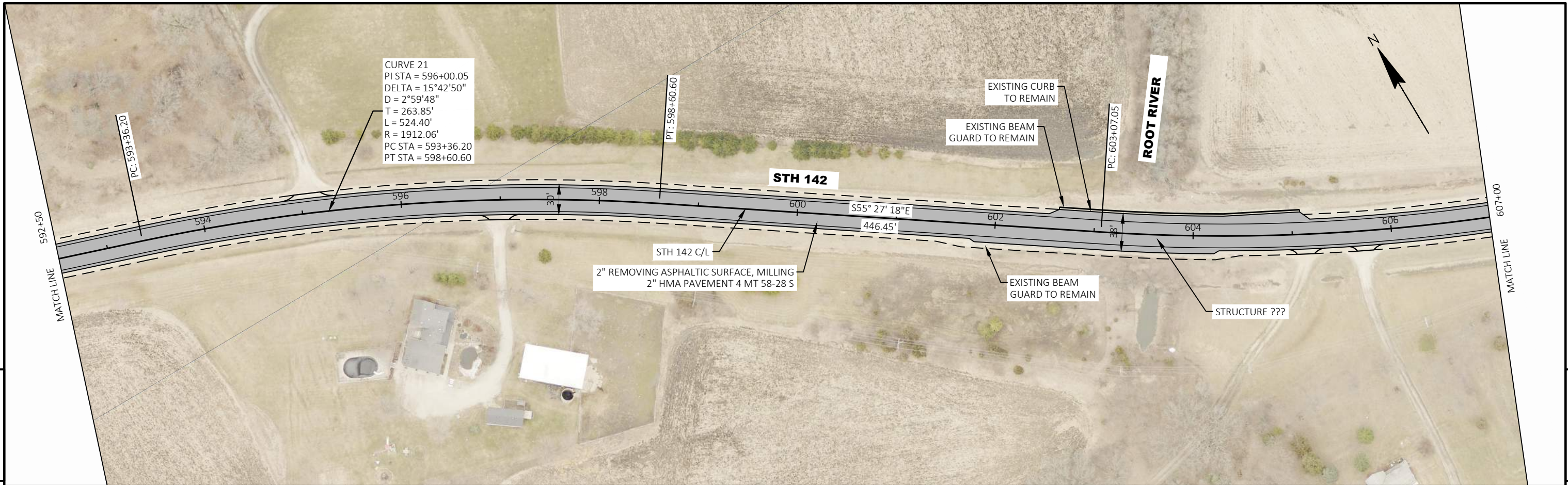


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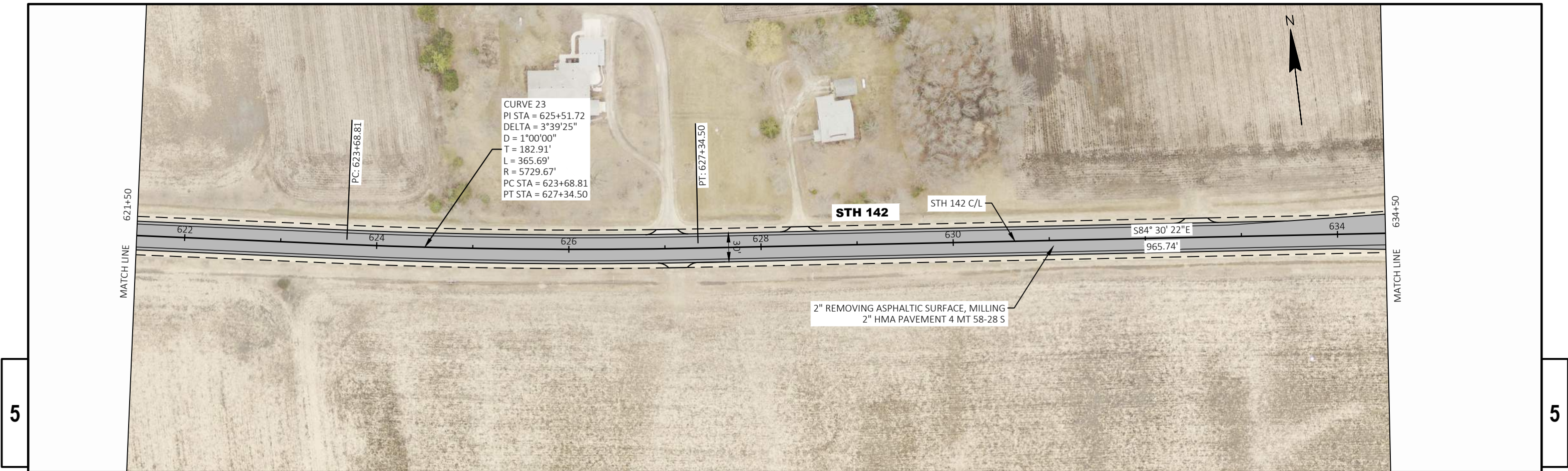


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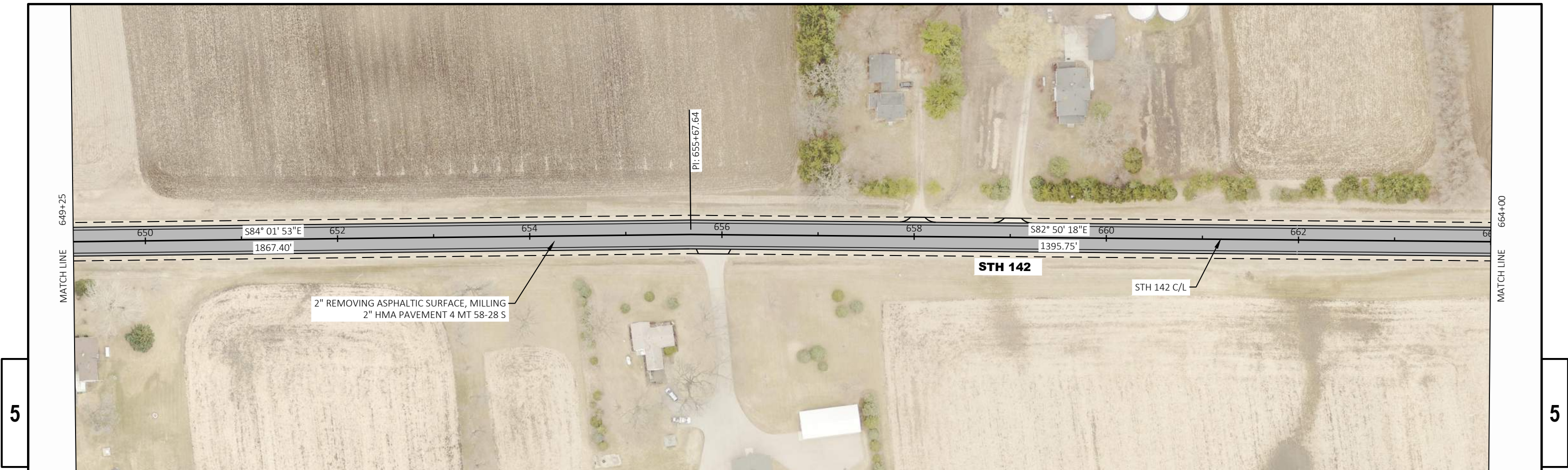




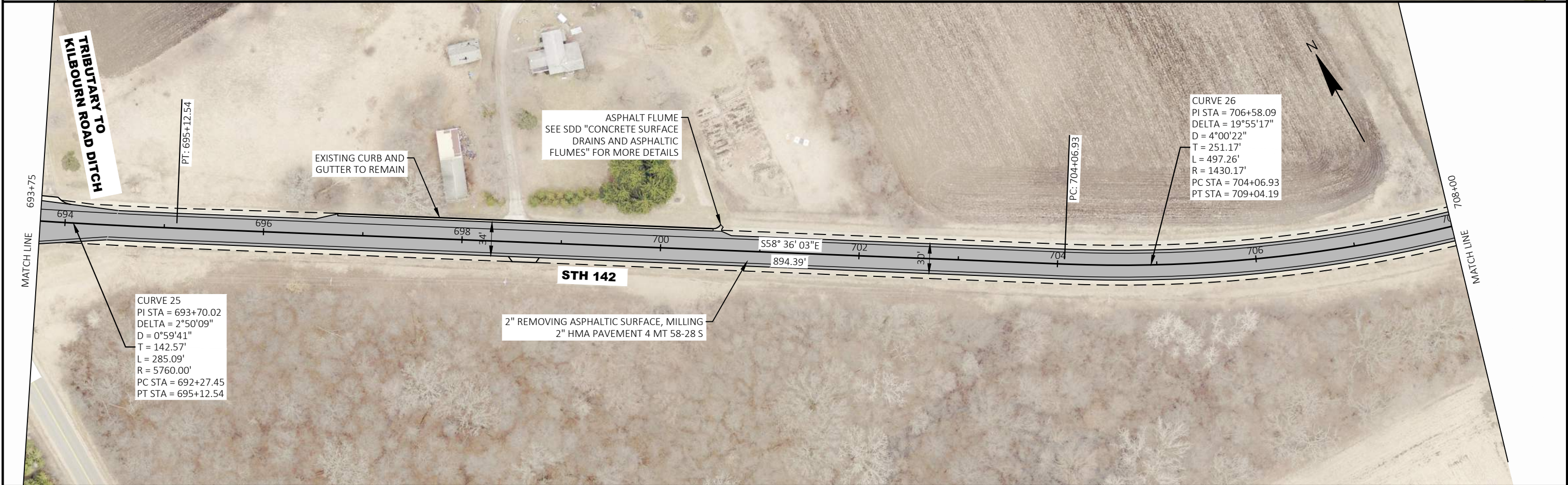
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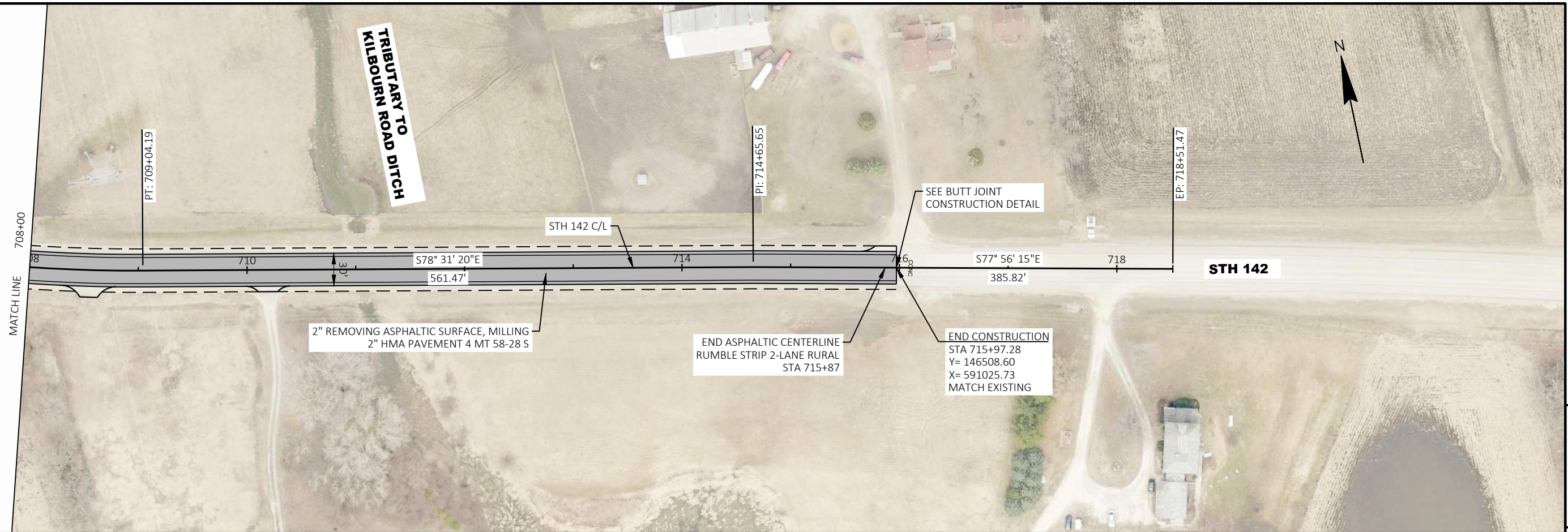
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PROJECT NO: 3834-06-70	HWY: STH 142	COUNTY: KENOSHA	PLAN SHEETS	SHEET	E
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PROJECT NO: 3834-06-70	HWY: STH 142	COUNTY: KENOSHA	PLAN SHEETS	SHEET	E
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DESIGN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

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

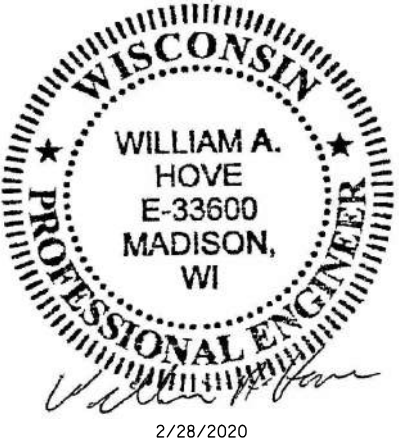
MATERIAL PROPERTIES:
CONCRETE MASONRY OVERLAY DECKS _____ f'_c = 4,000 PSI
ALL OTHER CONCRETE _____ f'_c = 3,500 PSI
HIGH STRENGTH BAR STEEL REINFORCEMENT _____ f_y = 60,000 PSI

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.

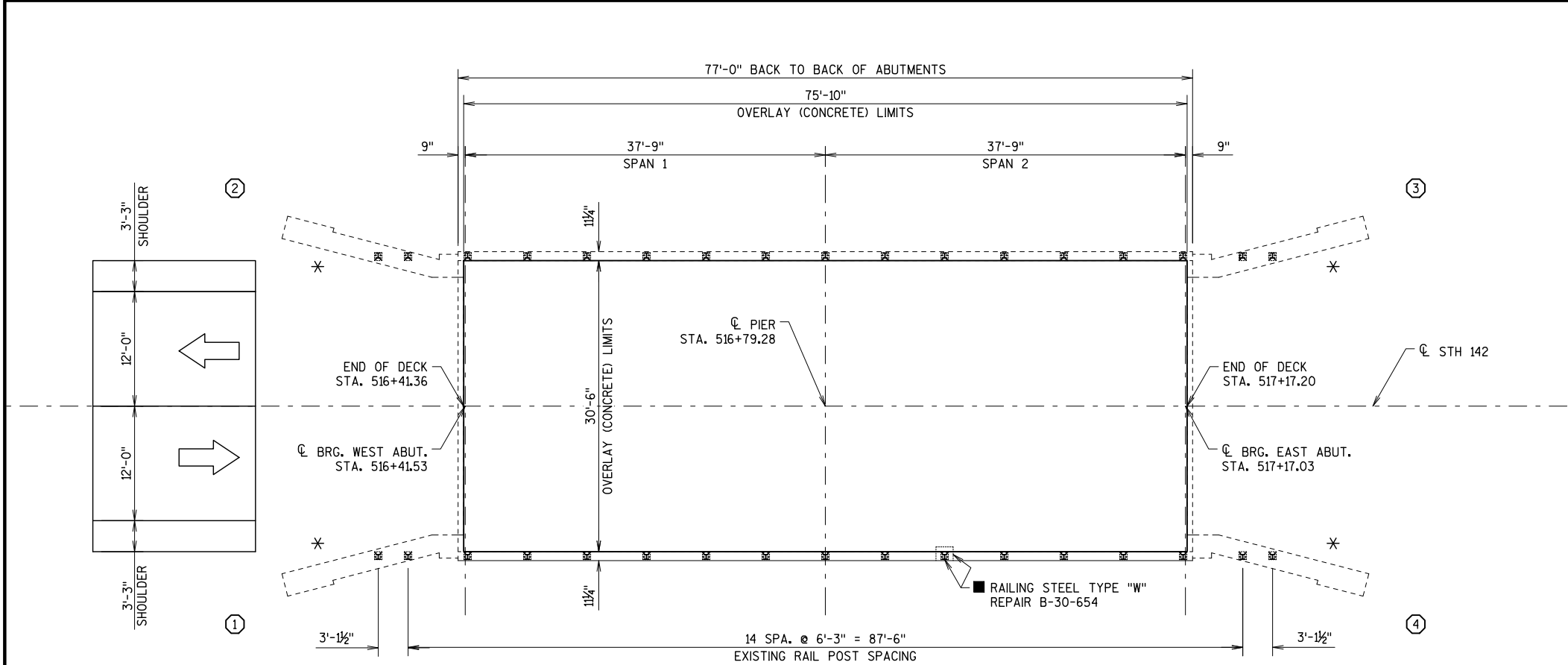


LIST OF DRAWINGS

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

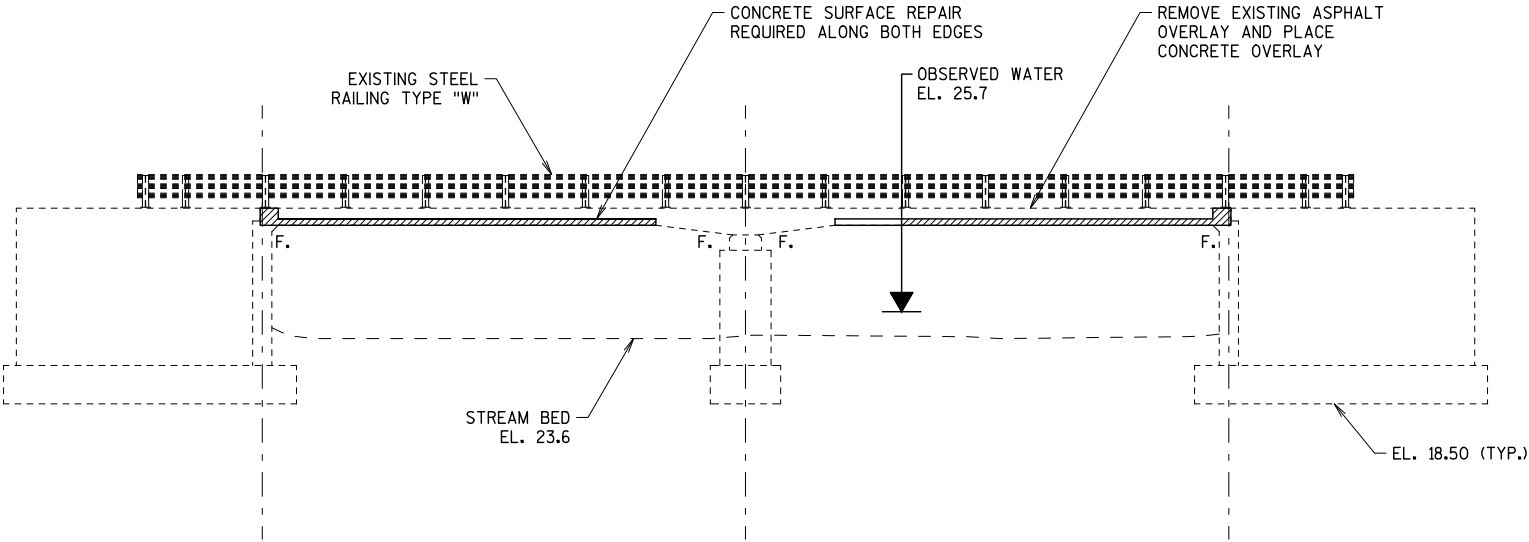
BRIDGE OFFICE CONTACT
AARON BONK, P.E.
TELEPHONE: (608) 261-0261

CONSULTANT CONTACT
BILL HOVE, P.E.
TELEPHONE: (608) 826-6125



PLAN

(CONCRETE OVERLAY: 2 SPAN - CONCRETE HAUNCHED SLAB)



ELEVATION

(NORMAL TO DES PLAINES RIVER)

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 _____ DATE _____ CHIEF STRUCTURES DESIGN ENGINEER			
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

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.

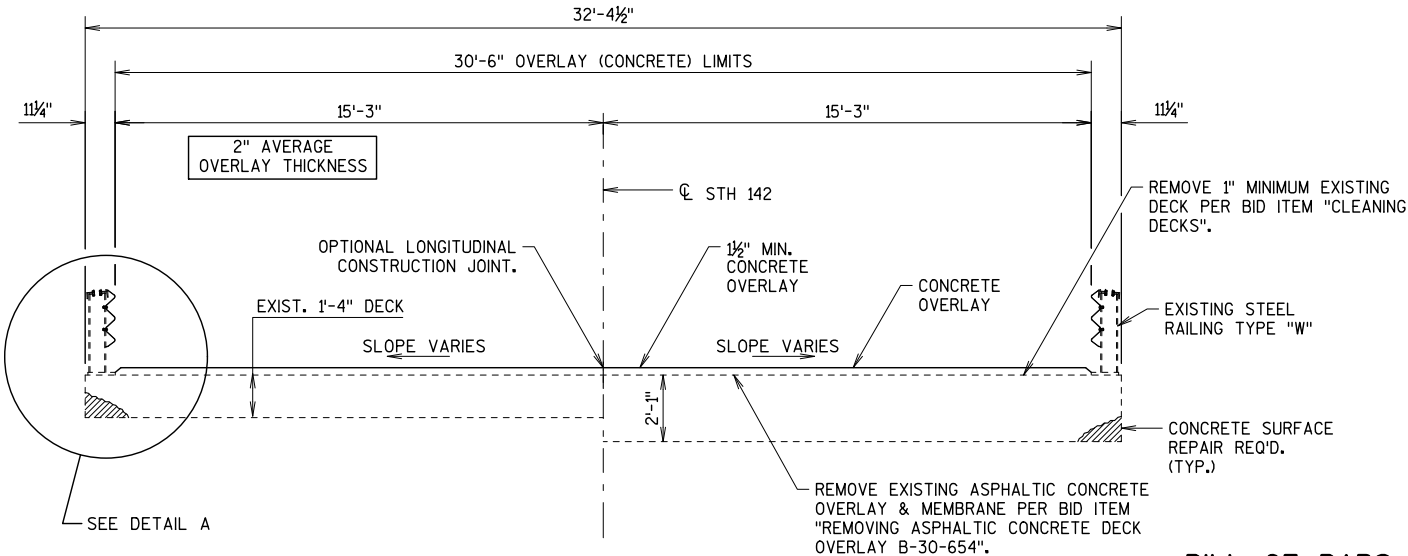
ALL CONCRETE REMOVAL NOT COVERED WITH A CONCRETE OVERLAY SHALL BE DEFINED BY A ½" DEEP SAW CUT.

"PREPARATION DECKS TYPE 1", "PREPARATION DECKS TYPE 2", "FULL-DEPTH DECK REPAIR", 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.

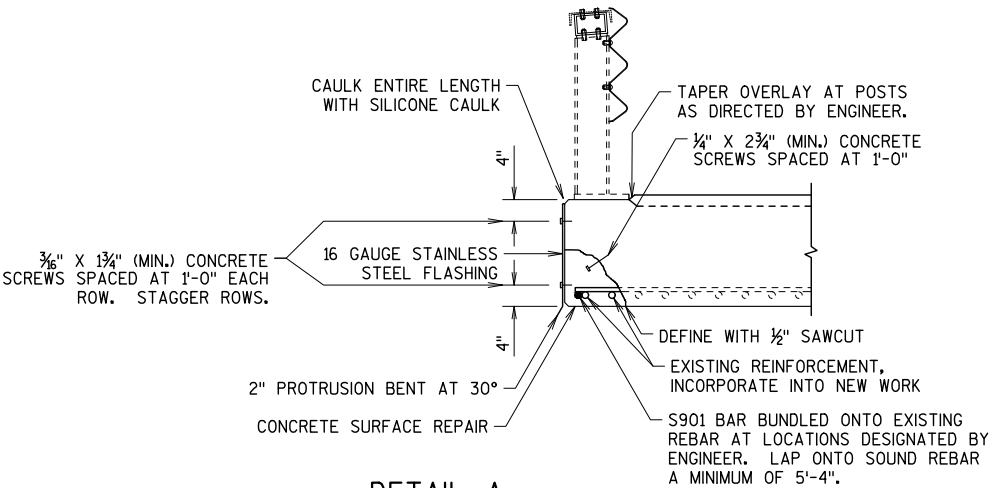
PROTECTIVE SURFACE TREATMENT SHALL BE APPLIED TO THE ENTIRE TOP SURFACE OF THE NEW OVERLAY.



IN - SPAN

OVER PIER

CROSS SECTION THRU BRIDGE
(LOOKING EAST)



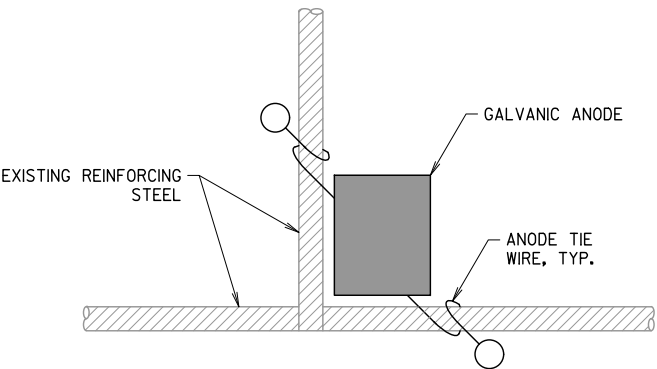
DETAIL A

THE BID ITEM "FLASHING STAINLESS STEEL" SHALL INCLUDE PROVIDING AND INSTALLING THE STAINLESS STEEL FLASHING, SILICONE CAULK, 3/8" AND 1/4" CONCRETE SCREWS, AND CLEANING THE EDGE OF THE DECK PRIOR TO ATTACHMENT OF THE FLASHING.

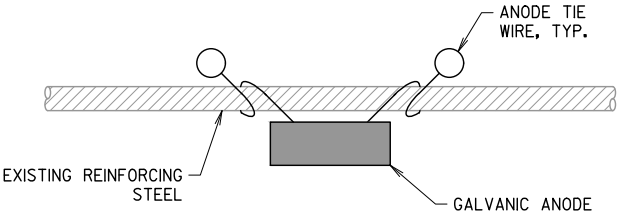
BILL OF BARS

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.



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.

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

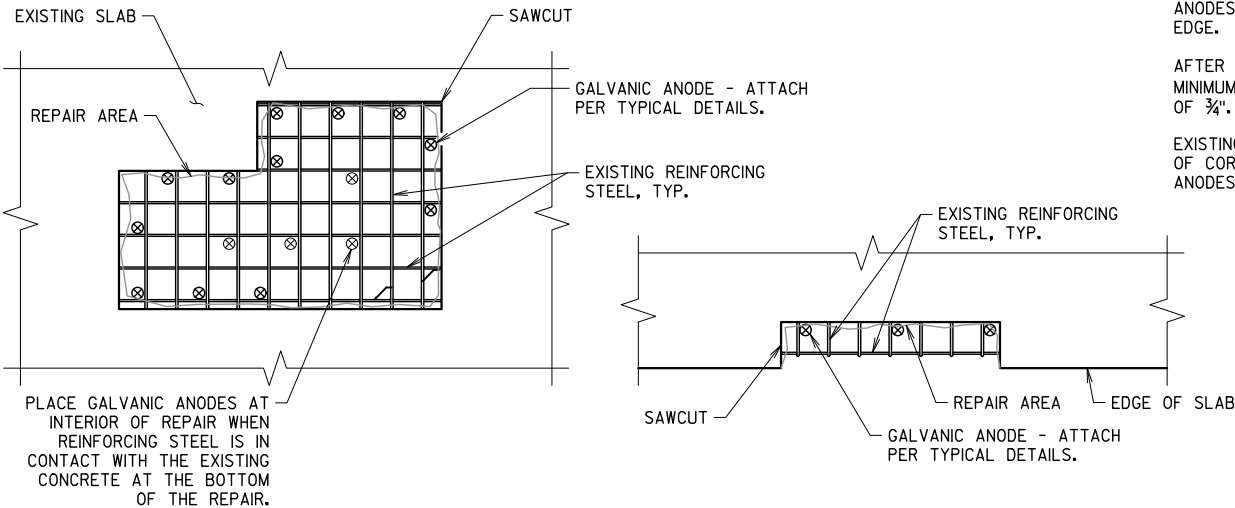
AFTER PLACEMENT, GALVANIC ANODES SHOULD MAINTAIN A MINIMUM TOP COVER OF 1½" AND A MINIMUM BOTTOM COVER OF ¾".

EXISTING REINFORCING STEEL TO BE COMPLETELY CLEANED OF CORRODED MATERIAL PRIOR TO INSTALLATION OF GALVANIC ANODES.

TOTAL ESTIMATED QUANTITIES

ITEM NUMBER	BID ITEMS	UNIT	WEST ABUT.	PIER	EAST ABUT.	SUPER	TOTAL
502.3200	PROTECTIVE SURFACE TREATMENT	SY	----	----	----	260	260
505.0400	BAR STEEL REINFORCEMENT HS STRUCTURES	LB	----	----	----	410	410
509.0301	PREPARATION DECKS TYPE 1	SY	----	----	----	40	40
509.0302	PREPARATION DECKS TYPE 2	SY	----	----	----	16	16
509.0500	CLEANING DECKS	SY	----	----	----	260	260
509.1500	CONCRETE SURFACE REPAIR	SF	50	100	50	300	500
509.2500	REMOVING 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
SPV.0105.01	DEBRIS CONTAINMENT OVER WATERWAY B-30-654	LS	----	----	----	----	1

ALL BID ITEMS ARE CATEGORY 0020



PART. PLAN TYPICAL CATHODIC PROTECTION REPAIR DETAIL

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

LEGEND

- ① W6x25 WITH 2 - 3/4" x 2 1/2" VERTICAL SLOTS ON ONE SIDE OF POST FLANGE FOR BOLT NO. 7.
- ② C8x11.5 WITH 1 5/16" DIA. HOLES, ATTACH TO NO. 4 WITH BOLTS NO. 8.
- ③ BASE PLATE 1" X 9 1/2" X 10" WITH 1 1/16" x 1 1/2" SLOTTED HOLES FOR ANCHOR BOLTS NO. 9. WELD TO NO. 1 AS SHOWN.
- ④ PLATE 1/2" x 5 3/4" x 6", WITH 1 1/4" 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 1 3/4" x 3" MOUNTING BOLT WASHER (GALVANIZED).
- ⑦ 5/8" DIA. BUTTON HEAD RAIL MOUNTING BOLT WITH ROUND WASHER AND NUT.
- ⑧ 5/8" 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 - 7/8" 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 1/4" x 8" x 8" FLAT BAR WITH 5/16" DIA. HOLES FOR ANCHOR BOLTS NO. 9.
- ⑪ PLATE 1/2" x 5 3/4" x 1 1/2" WITH 1 1/4" 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.

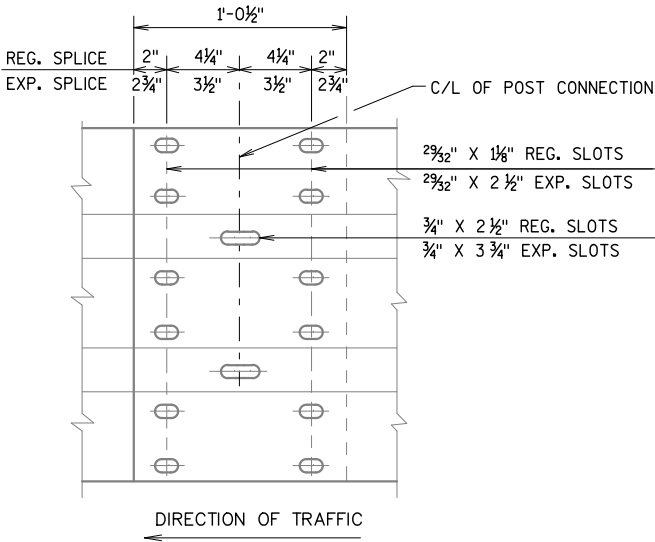
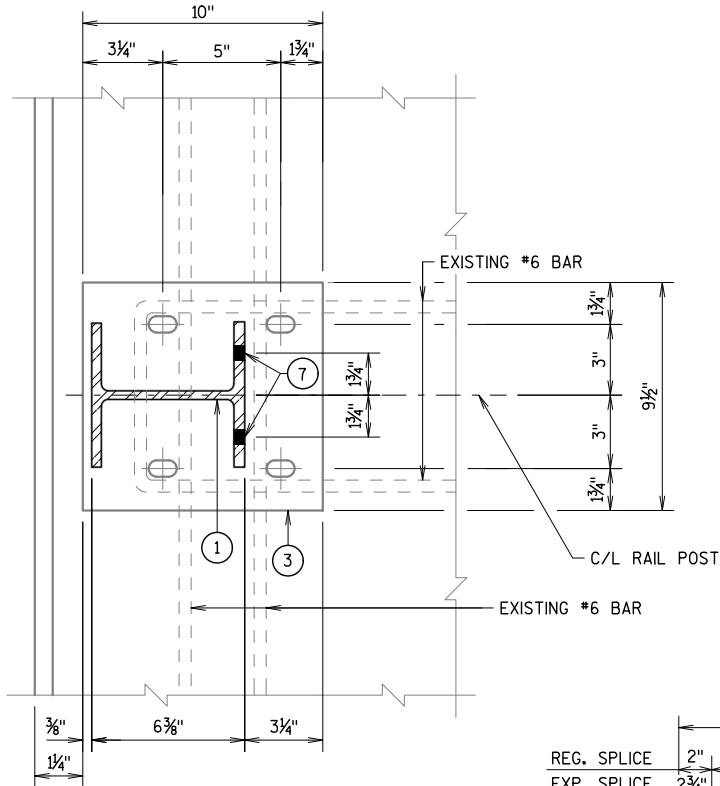
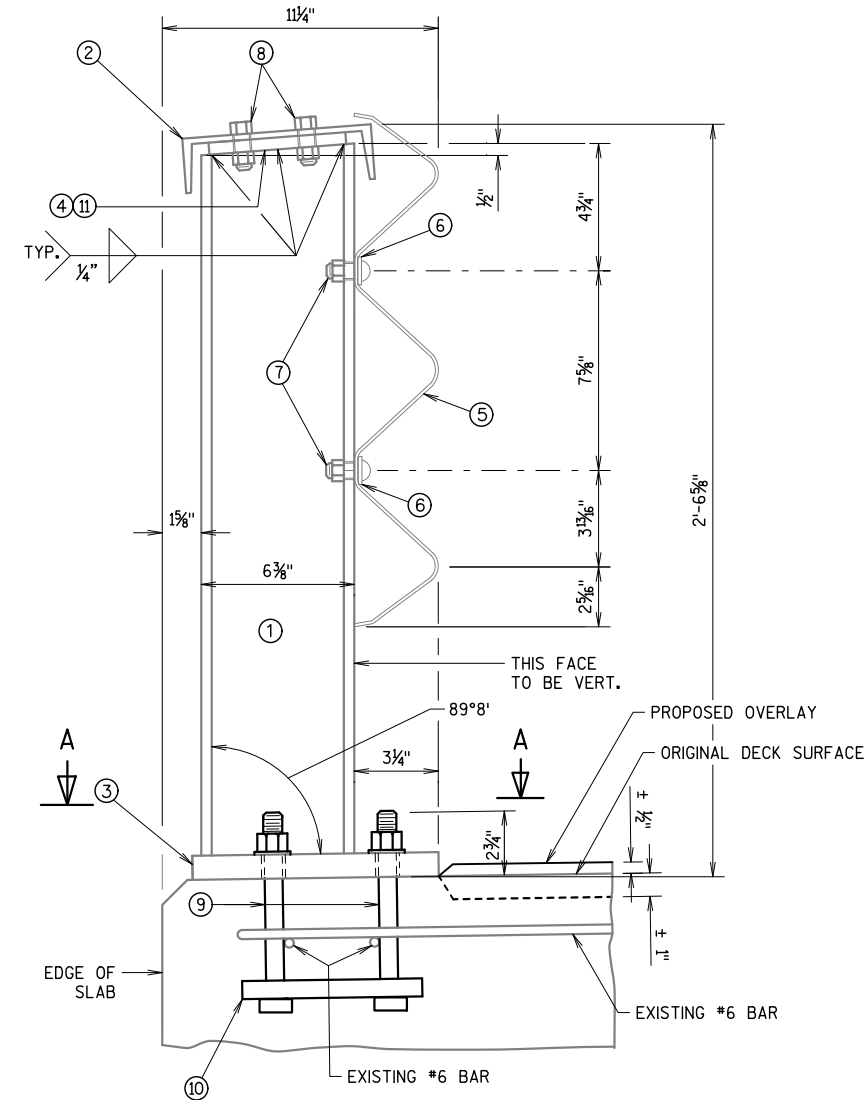
ALL MATERIAL EXCEPT ANCHORAGE DETAIL NO. 10 SHALL BE GALVANIZED AFTER FABRICATION.

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.

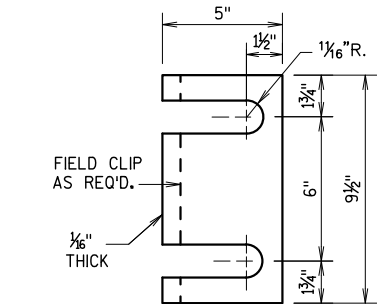
AT EXPANSION SLOTS IN RAIL AND CHANNEL MEMBERS, TIGHTEN BOLTS, BACK OFF ONE HALF TURN AND BURR THREADS. RAIL MEMBERS SHALL BE LAPPED IN THE DIRECTION OF TRAFFIC AND THE UPPER RAIL SHALL LAP THE LOWER RAIL.

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

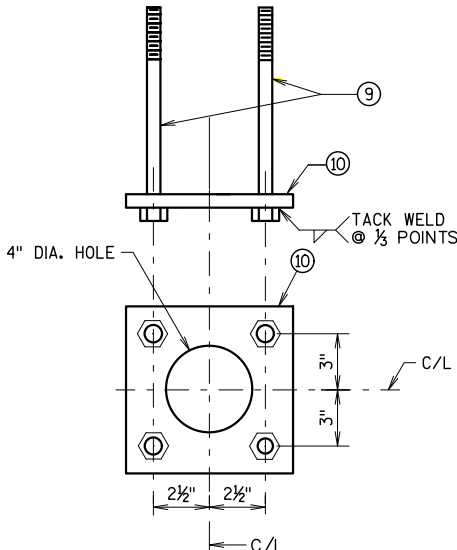


RAIL MEMBER SPLICE

5/8" DIA. BUTTON HEAD OVAL SHOULDER BOLTS WITH HEX NUTS AT ALL SLOTS.

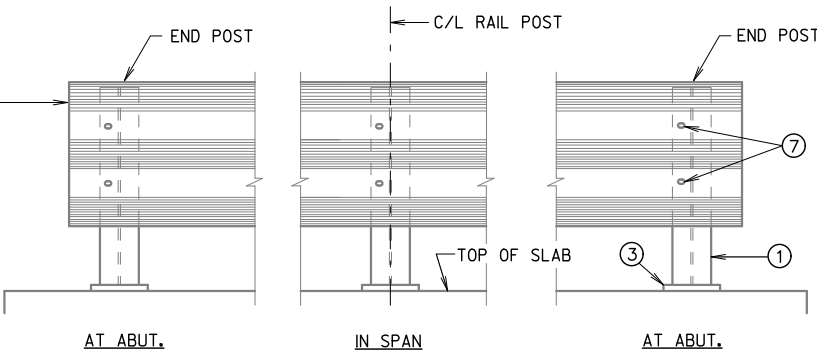


PROPOSED POST SHIM DETAIL
(4 PER POST)



PROPOSED ANCHORAGE DETAIL

AT END POSTS, RAIL MEMBER SHALL HAVE PROVISIONS FOR A THREE BEAM CONNECTION AS SHOWN ON SDD 14 B 20 STANDARDS.



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