

PROJECT ID:
2290-22-70

COUNTY:
RACINE

WITH: N/A

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

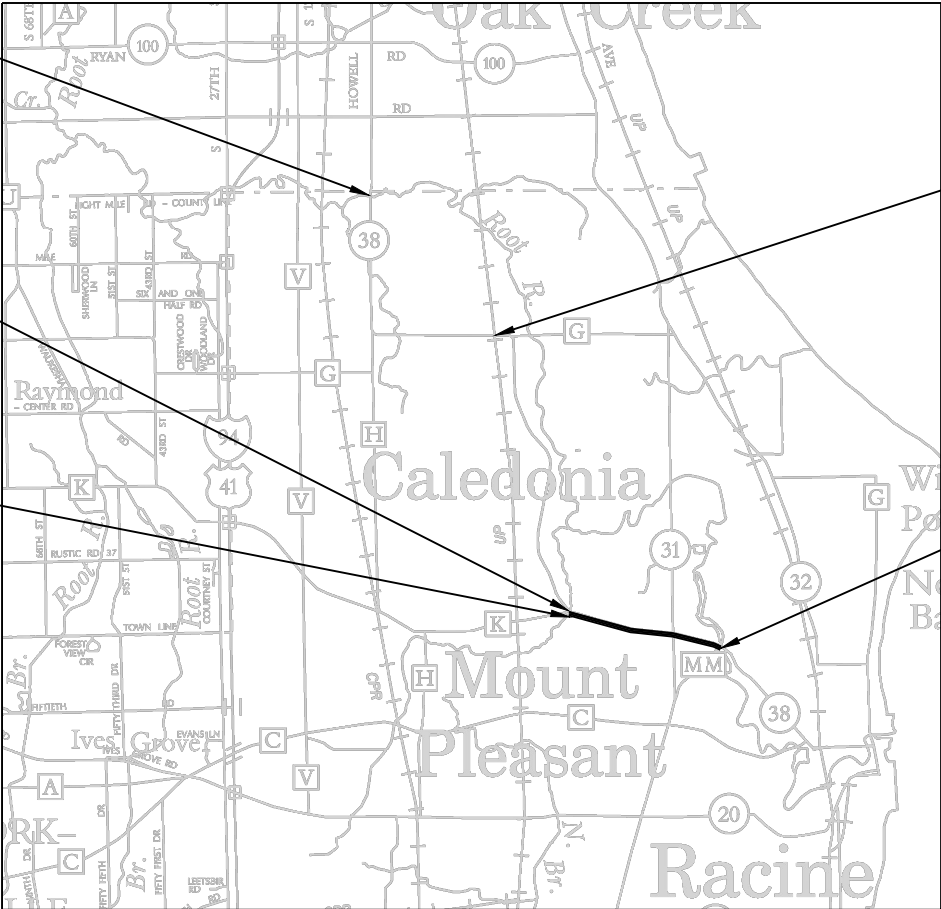
A.A.D.T.	2022	=	16,200
A.A.D.T.	2042	=	18,100
D.H.V.		=	2,136
D.D.		=	59/41
T.		=	6.2%
DESIGN SPEED		=	45 MPH
ESALS		=	3,200,000

CONVENTIONAL SYMBOLS

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

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

BEGIN PROJECT
STA 125+36
X= 618336.021
Y= 197769.827



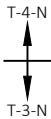
LAYOUT
SCALE 0 2.5 MI
TOTAL NET LENGTH OF CENTERLINE = 1.867 MI

HORIZONTAL POSITIONS SHOWN ON THIS PLAN ARE WISCONSIN COUNTY COORDINATE REFERENCE SYSTEM (WISCRS), RACINE COUNTY, NAD83 (2007), IN U.S. SURVEY FEET. POSITIONS SHOWN ARE GRID COORDINATES, GRID BEARINGS, AND GRID DISTANCES. GRID DISTANCES ARE THE SAME AS GROUND DISTANCES.

ELEVATIONS ARE REFERENCED TO NAVD 88 (2007). GPS DERIVED ELEVATIONS ARE BASED ON GEOID 12A.



B-51-054



END PROJECT
STA 228+24
X= 628300.868
Y= 195326.479

B-51-074

B-51-003



B-51-074

B-51-003

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B-51-003

GENERAL NOTES

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

THE LOCATION OF DRIVEWAY MATCH POINTS NOT SHOWN IN THE PLANS WILL BE DETERMINED BY THE ENGINEER.

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

STATIONING, DISTANCES AND OFFSETS FOR SIGNS SHOWN ON THE PLANS ARE APPROXIMATE AND THE LOCATIONS OF SIGNS ARE TO BE DETERMINED IN THE FIELD BY 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 AREA THAT ARE NOT SHOWN.

THE CONTRACTOR WILL COORDINATE CONSTRUCTION ACTIVITIES WITH A CALL TO DIGGERS HOTLINE AND/OR A CALL TO THE UTILITIES THAT HAVE INSTALLATIONS WITHIN THE PROJECT AREA.

ELEVATIONS SHOWN FOR CURB AND GUTTER ARE FLANGE ELEVATION. DISTANCES SHOWN FOR CURB AND GUTTER RADAI ARE MEASURED TO THE FLANGE

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

EROSION CONTROL DEVICES ARE TO BE PLACED IN SEQUENCE WITH CONSTRUCTION STAGING AND MAINTAINED THROUGH EACH STAGE OR AS DETERMINED BY THE ENGINEER.

EROSION CONTROL BMP'S ARE AT SUGGESTED LOCATIONS. THE ACTUAL LOCATIONS WILL BE DETERMINED BY THE CONTRACTORS ECIP AND BY THE ENGINEER. EROSION CONTROL BMP'S SHALL BE MAINTAINED UNTIL PERMANENT VEGETATION IS ESTABLISHED OR UNTIL THE ENGINEER DETERMINES THAT THE BMP IS NO LONGER REQUIRED.

RE-TOPSOIL OF GRADED AREAS, AS DESIGNATED BY THE ENGINEER, IMMEDIATELY AFTER GRADING IS COMPLETED WITHIN THOSE AREAS. SEED, FERTILIZE, AND MULCH / EROSION MAT TOP-SOILED AREAS, AS DESIGNATED BY THE ENGINEER, WITHIN FIVE (5) CALENDAR DAYS AFTER PLACEMENT OF TOPSOIL. IF GRADED AREAS ARE LEFT EXPOSED FOR MORE THAN 14 CALENDAR DAYS, SEED THOSE AREAS WITH TEMPORARY SEED AND MULCH.

STOCKPILE EXCESS MATERIAL OR SPOILS ON UPLAND AREAS AWAY FROM WETLANDS, FLOODPLAINS AND WATERWAYS. STOCKPILED SOIL SHALL BE PROTECTED AGAINST EROSION. IF STOCKPILED MATERIAL IS LEFT FOR MORE THAN FOURTEEN (14) CALENDAR DAYS, SEED THE STOCKPILE WITH TEMPORARY SEED AND MULCH.

ORDER OF SECTION 2 DETAIL SHEETS

- GENERAL NOTES
- UTILITY CONTACTS
- OTHER CONTACTS
- PROJECT OVERVIEW
- TYPICAL SECTIONS
- CONSTRUCTION DETAILS
- PLAN DETAILS
- PERMANENT SIGNING
- TRAFFIC SIGNALS
- PAVEMENT MARKING
- TRAFFIC CONTROL
- ALIGNMENT

HMA PAVING LAYER DEPTHS

PAVEMENT LOCATION	TOTAL PAVEMENT THICKNESS	LAYERS	TYPE
STH 38			
STA 125+36 - 227+25 NB	4"	1 3/4" UPPER	4 MT 58-28S
STA 125+36 - 227+53 SB		2 1/4" LOWER	3 MT 58-28S
STA 218+20 - 218+80 NB	7"	1 3/4" UPPER	4 MT 58-28S
STA 142+82 - 145+15 SB		2 1/4" LOWER	3 MT 58-28S
		3" LOWER	3 MT 58-28S

UTILITY CONTACTS

AT&T WISCONSIN

SCOTT SOKOLOWSKI
435 S 95th St
MILWAUKEE, WI 53214
PHONE: (414) 258-5239
CELL PHONE: (262) 994-8070
ms4143@att.com

RACINE WATER WORKS COMMISSION

CHAD REGALIA
800 CENTER ST
RACINE, WI 53403
PHONE: (262) 497-4611
PHONE: (920) 338-6582
molsen@atcllc.com

WE ENERGIES - GAS

MS. NICOLE SMULLEN
333 W EVERETT ST, ROOM A299
MILWAUKEE, WI 53203
PHONE:(414) 221-5617
nicole.smullen@wecenergygroup.com

CHARTER COMMUNICATIONS

PETE KRUZELA
1320 N DR MARTIN LUTHER KING DR
MILWAUKEE, WI 53212
PHONE: (414) 908-1339
pete.kruzela@charter.com

VILLAGE OF CALEDONIA

BOB LUI
6922 NICHOLSON RD
CALEDONIA, WI 53108
PHONE: (262) 681-3900
blui@caledoniawiutility.com

WINDSTREAM KDL, LLC

MS. MARY FISHER, OSP PROJECT MANAGER
13935 BISHOPS DR
BROOKFIELD, WI 53005
PHONE: (262) 792-7938
mary.b.fisher@windstream.com

MIDWEST FIBER NETWORKS, LLC

RICHARD TRGOVEC
6070 NORTH FLINT RD
GLENDALE, WI 53209
PHONE: (414) 459-3554
rtrgovec@midwestfibernetworks.com

MOUNT PLEASANT STORM WATER DIST. 1

TONY BEYER
8811 CAMPUS DR
MOUNT PLEASANT, WI 53406
PHONE: (262) 664-7849
tbeyer@mtpleasantwi.gov

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13935 BISHOPS DR
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PHONE: (262) 792-7938
mary.b.fisher@windstream.com

PAETEC COMMUNICATIONS, LLC

MS. MARY FISHER
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PHONE: (262) 792-7938
mary.b.fisher@windstream.com

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8811 CAMPUS DR
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tbeyer@mtpleasantwi.gov

WISDOT SIGNALS

MATTHEW COWAP
141 NW BARSTOW ST.
WAUKESHA, WI 53187-0798
PHONE: (414) 750-1748
matthew.cowap@dot.wi.gov

CITY OF RACINE

KEITH HAAS
800 CENTER ST
RACINE, WI 53403
PHONE: (262) 636-9434
keith.haas@cityofracine.org

WE ENERGIES - ELECTRIC

MS. NICOLE SMULLEN
333 W EVERETT ST, ROOM A299
MILWAUKEE, WI 53203
PHONE:(414) 221-5617
nicole.smullen@wecenergygroup.com

WISDOT - STREET LIGHTING

ERIC PEREA
141 NW BARSTOW ST
WAUKESHA, WI 53087
PHONE: (262) 574-5422
eric.perea@dot.wi.gov

CALEDONIA STORM WATER UTILITY COMMISSION

BOB LUI
6922 NICHOLSON RD
CALEDONIA, WI 53108
PHONE: (262) 681-3900
blui@caledoniawiutility.com



OTHER CONTACTS

BATTEN INTERNATIONAL AIRPORT

DAVID MANN
3239 N GREEN BAY RD
RACINE, WI 53404
PHONE: (262) 631-5620
ndmann@battenairport.aero

VILLAGE OF CALEDONIA ENGINEERING

TOM LAZCANO
6922 NICHOLSON RD
CALEDONIA, WI 53108
PHONE: (262) 939-5394
tlazcano@caledoniawi.com

CITY OF RACINE - ENGINEERING

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PHONE: (262) 636-9460
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PHONE: (262) 664-7849
tbeyer@mtpleasantwi.gov

RACINE COUNTY DIRECTOR OF PUBLIC WORKS

JULIE ANDERSON
14200 WASHINTON AVE
STURTEVANT, WI 53177
(262) 886-8470
JULIE.ANDERSON@RACINECOUNTY.COM

RACINE COUNTY SHERIFF

CHISTOPHER SCHMALING
717 WISCONSIN AVENUE
RACINE, WI 53403
(262) 636-3822
RCSHERIFF@RACINECOUNTY.COM

CITY OF RACINE FIRE DEPT

810 8TH STREET
RACINE, WI 53403
(262) 886-2300

CITY OF RACINE POLICE DEPT

730 CENTER ST
RACINE, WI 53403
(262) 886-2300

SOUTH SHORE FIRE DEPT

VILLAGE OF MOUNT PLEASANT
3900 OLD GREEN BAY ROAD
MT. PLEASANT, WI 53406
(262) 995-1200

VILLAGE OF MOUNT PLEASANT POLICE DEPT

8811 CAMPUS DR
MT. PLEASANT, WI 53406
(262) 886-2300

VILLAGE OF CALEDONIA FIRE DEPT

6900 NICHOLSON RD
CALEDONIA, WI 53108
(262) 835-2050

VILLAGE OF CALEDONIA POLICE DEPT

6900 NICHOLSON RD
CALEDONIA, WI 53108
(262) 835-4423

UNION PACIFIC RAILROAD

CHRIS T. KECKEISEN
1400 DOUGLAS, MS 0910
OMAHA, NE 68179
(402) 544-5131
CTKECKEI@UP.COM

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2300 N MARTIN LUTHER KING DR
MILWAUKEE, WI 53212
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KRISTINA.BETZOLD@WISCONSIN.GOV

SEWRPC

JOHN WASHBURN
W239 N1812 ROCKWOOD DRIVE
PO BOX 1607
WAUKESHA, WI 53187
(262) 953-4295
JWASHBURN@SEWRPC.ORG

WISDOT HIGHWAY MAINTENANCE

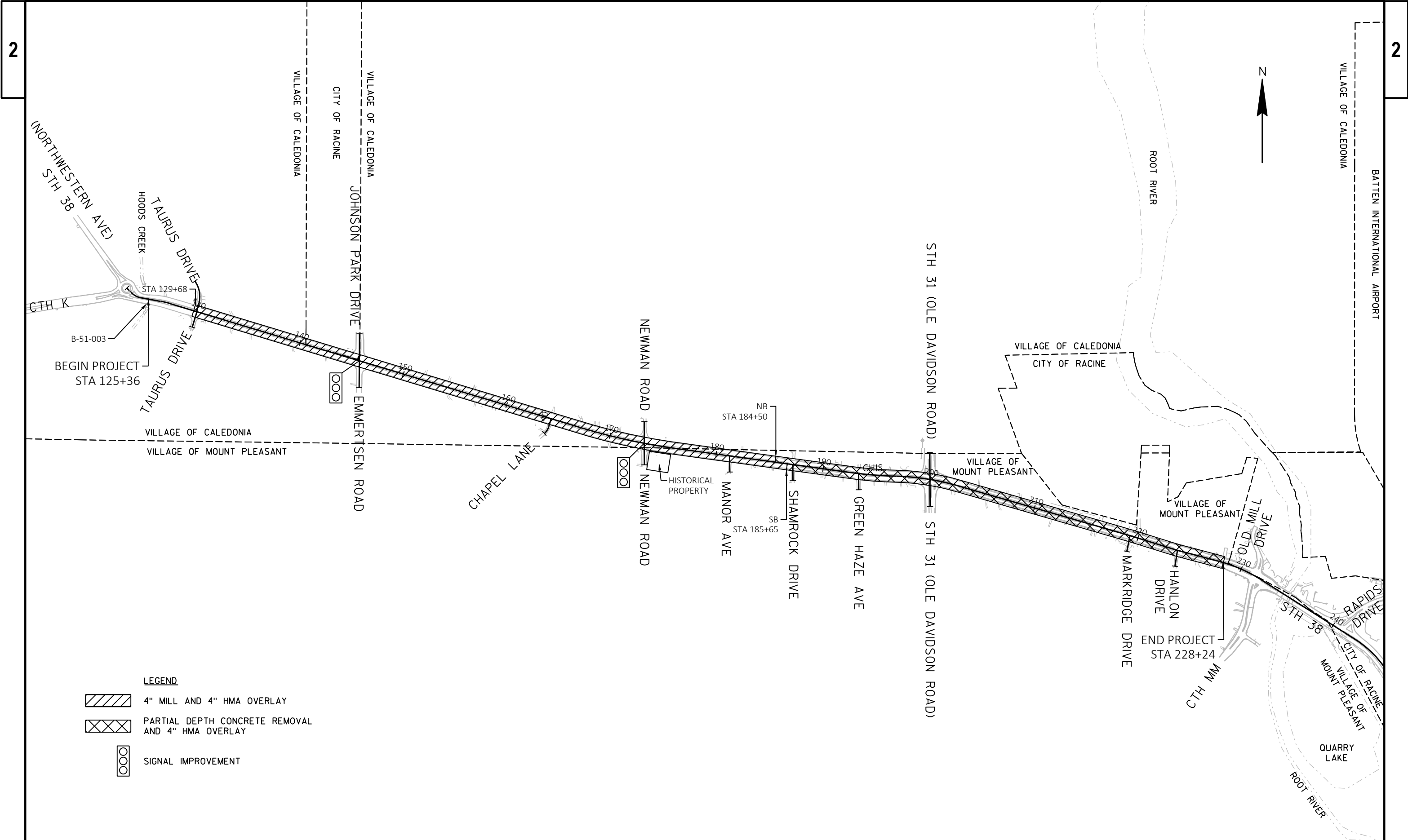
GAIL LANTZ
141 NW BARSTOW STREET
PO BOX 798
WAUKESHA, WI 53187-0798
(414) 750-0994
GAIL.LANTZ@DOT.WI.GOV

WISDOT ELECTRICAL FIELD UNIT

935 S. 60TH ST
WEST ALLIS, WI 53214
(414) 266-1170

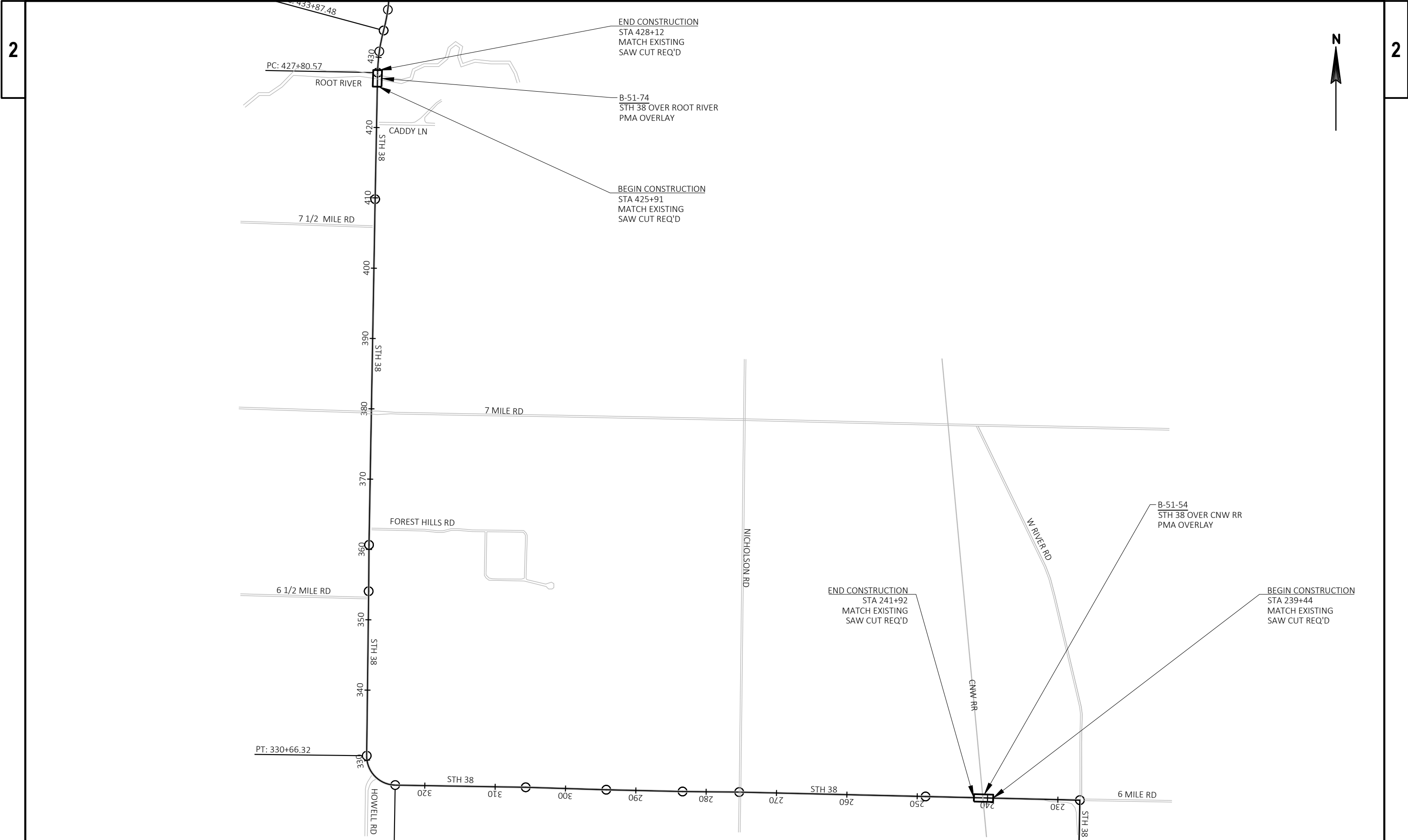
WISDOT PROJECT MANAGER

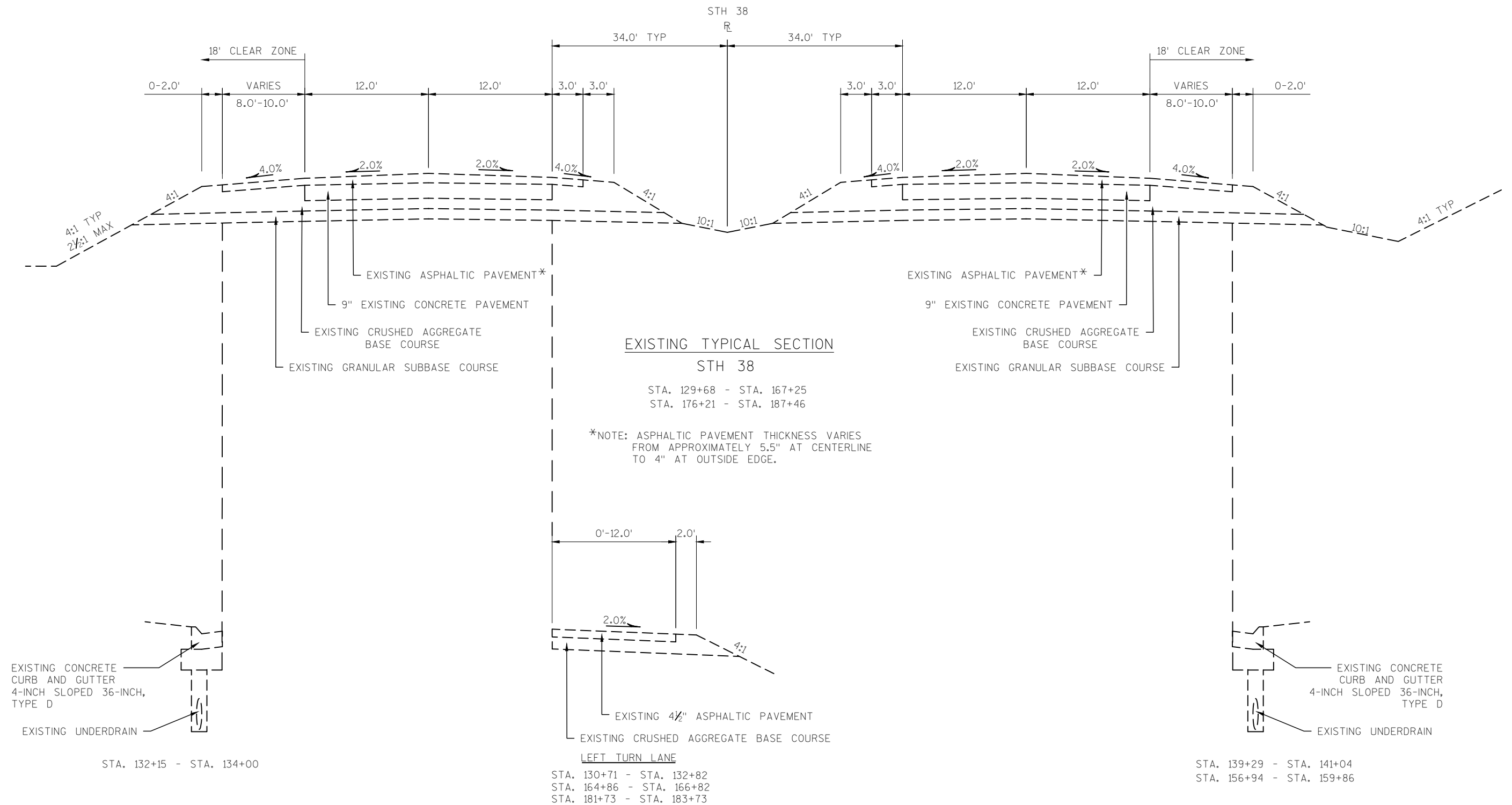
NGUYEN LY
141 NW BARSTOW STREET
PO BOX 798
WAUKESHA, WI 53187-0798
(262) 548-8739
NGUYEN.LY@DOT.WI.GOV



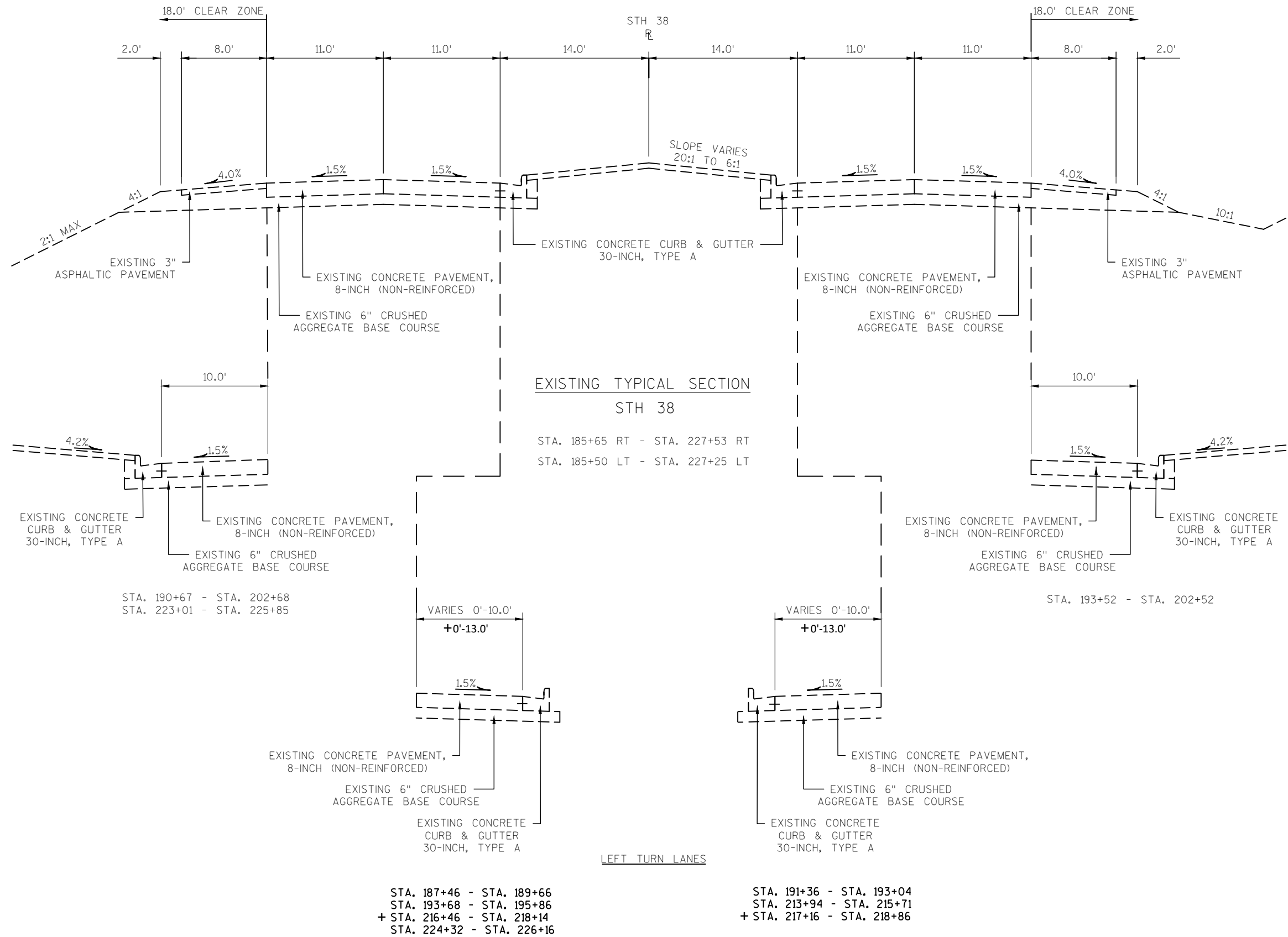
LEGEND

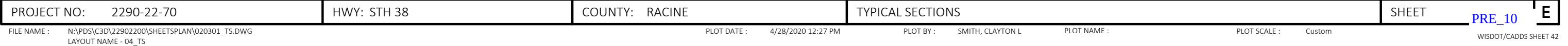
- 4" MILL AND 4" HMA OVERLAY
- PARTIAL DEPTH CONCRETE REMOVAL AND 4" HMA OVERLAY
- SIGNAL IMPROVEMENT

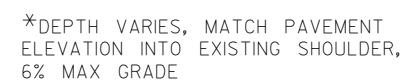


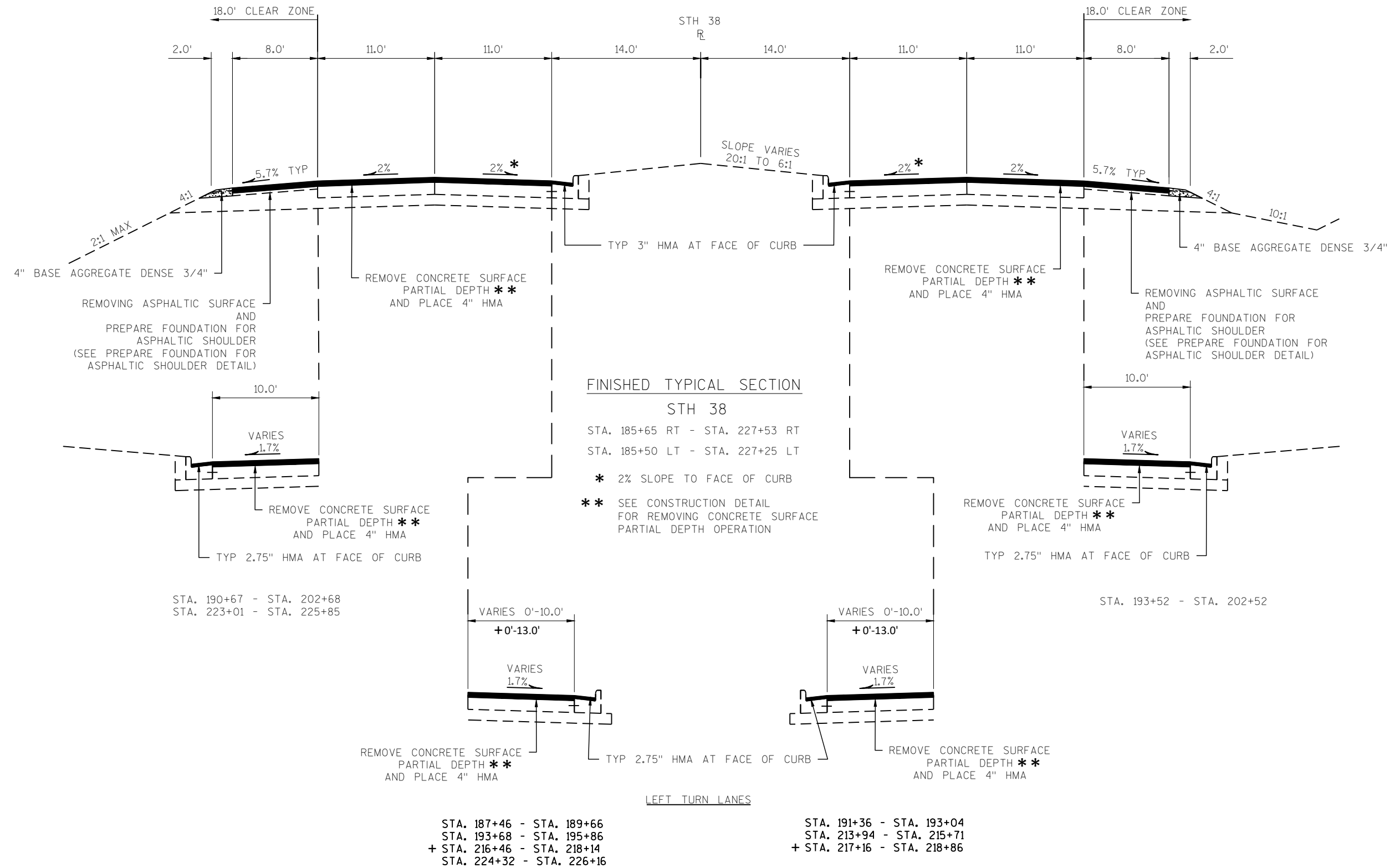


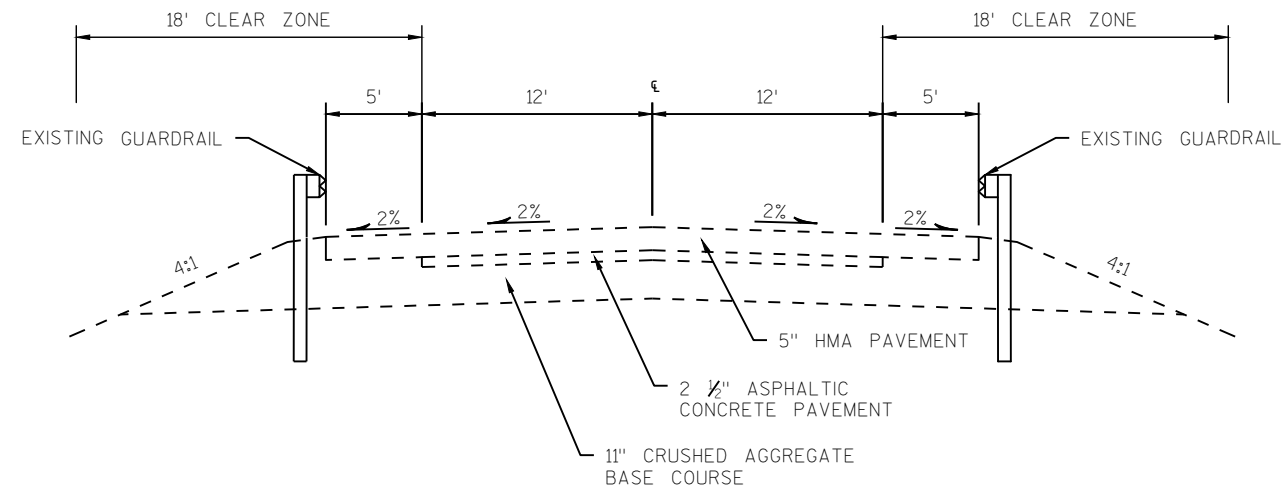






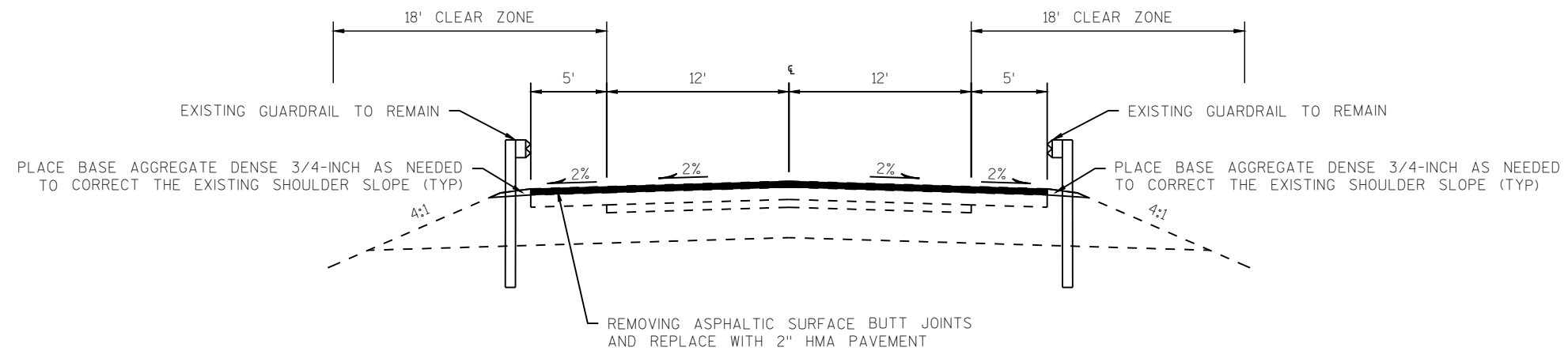






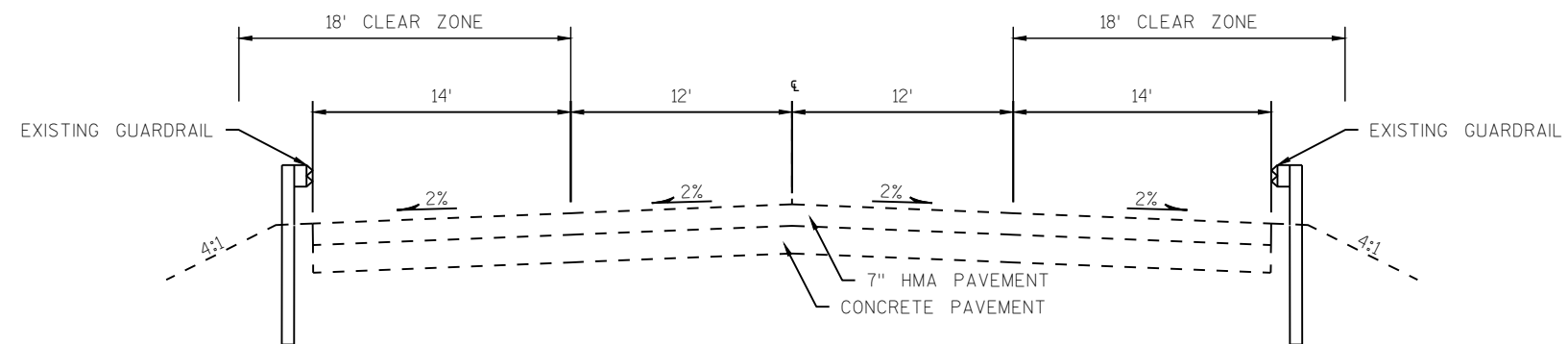
EXISTING TYPICAL SECTION STH 38
B-51-54

STA 239+44 - STA 239+96
STA 241+40 - STA 241+92



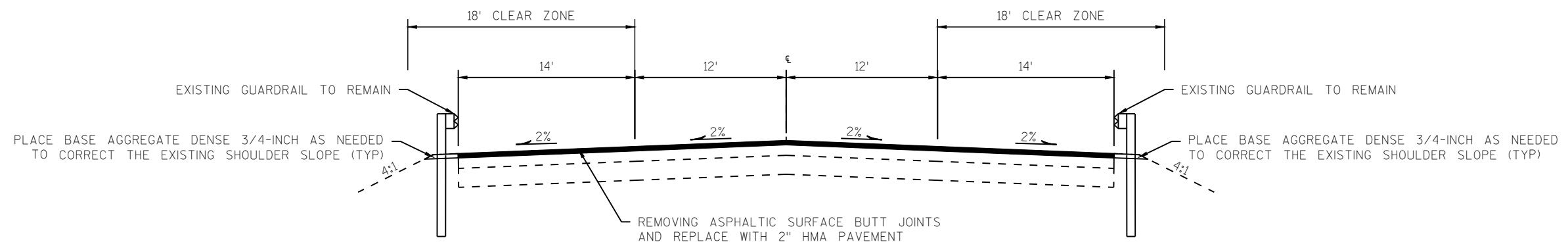
FINISHED TYPICAL SECTION STH 38
B-51-54

STA 239+44 - STA 239+96
STA 241+40 - STA 241+92



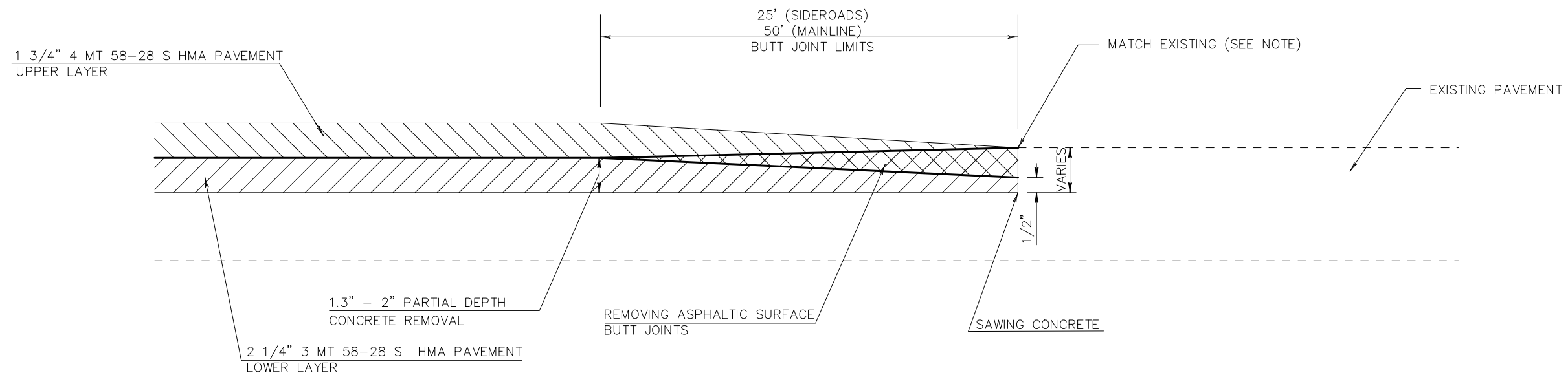
EXISTING TYPICAL SECTION STH 38
B-51-74

STA 425+91 - STA 426+41
STA 427+62 - STA 428+12



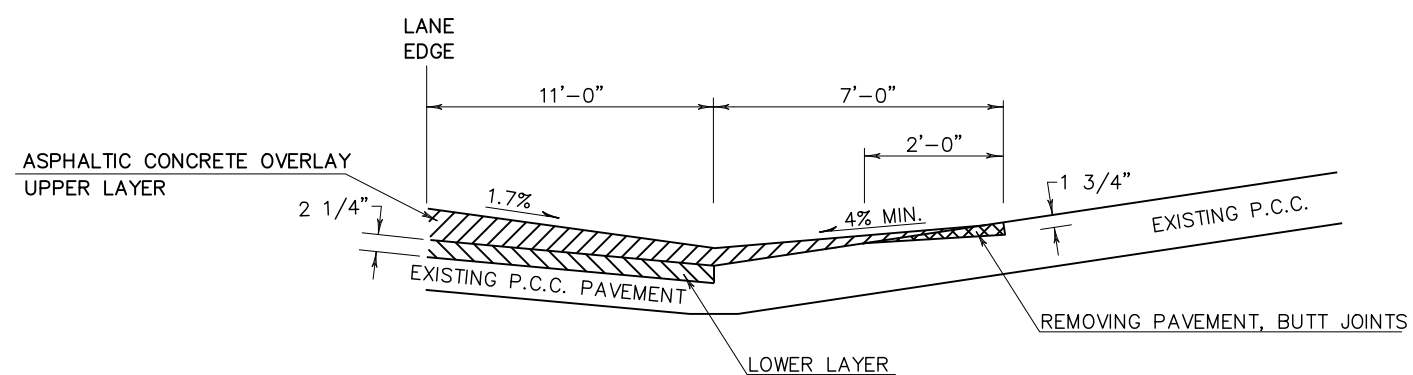
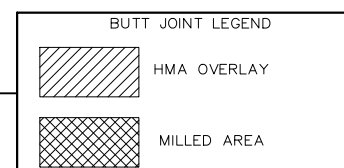
PROPOSED TYPICAL SECTION STH 38
B-51-74

STA 425+91 - STA 426+41
STA 427+62 - STA 428+12

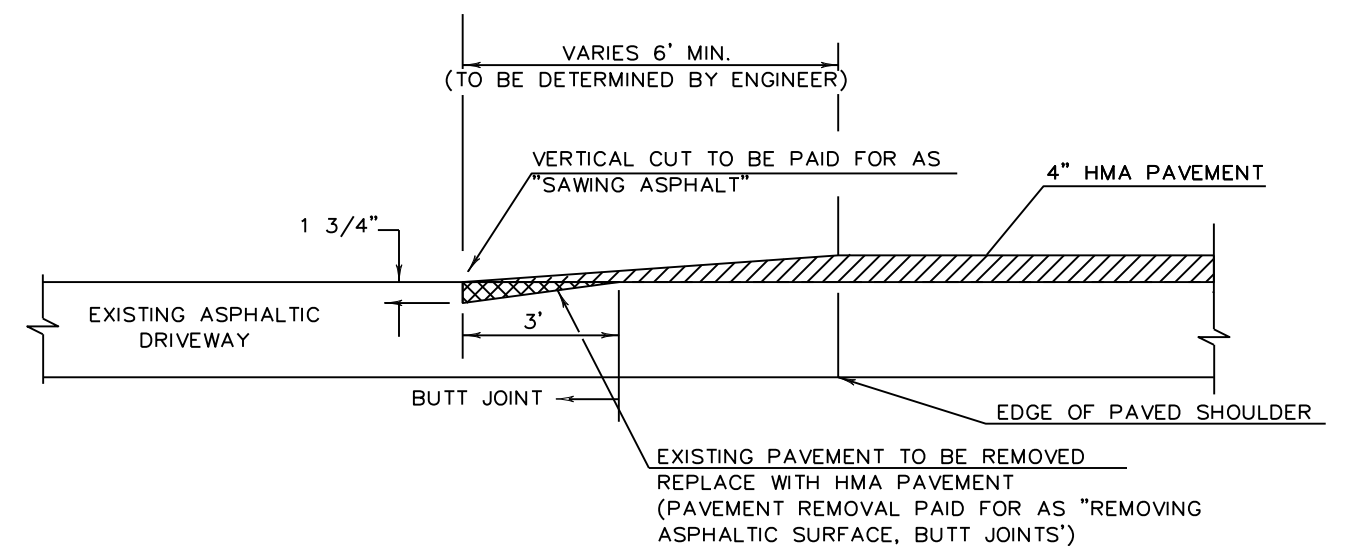
**BUTT JOINT DETAIL**

STA 227+13 – STA 227+63, RT STH 38
STA 226+75 – STA 227+25, LT STH 38
STA 651+03 – STA 651+53, RT STH 31
STA 651+46 – STA 651+96, LT STH 31
STA 653+63 – STA 654+13, RT STH 31
STA 654+07 – STA 654+57, LT STH 31

NOTE: LOCATION FOR MATCH POINT
TO BE DETERMINED IN FIELD
BY PROJECT ENGINEER.

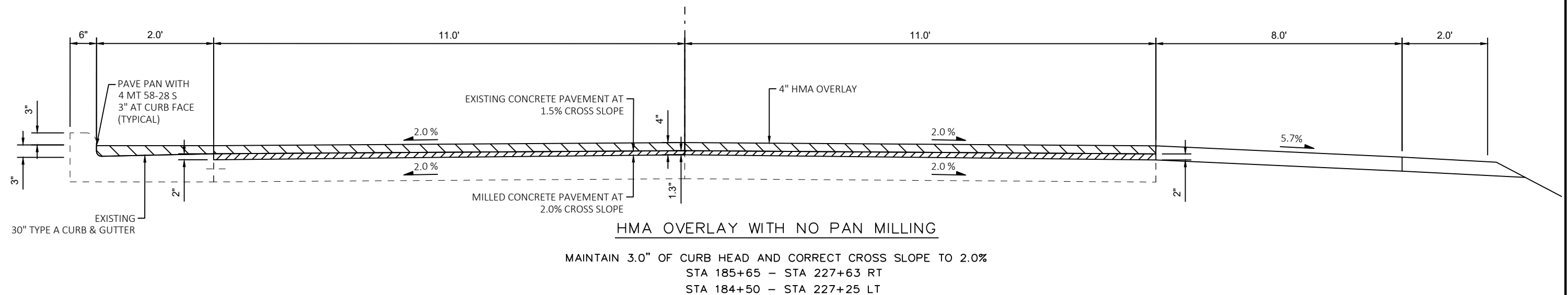
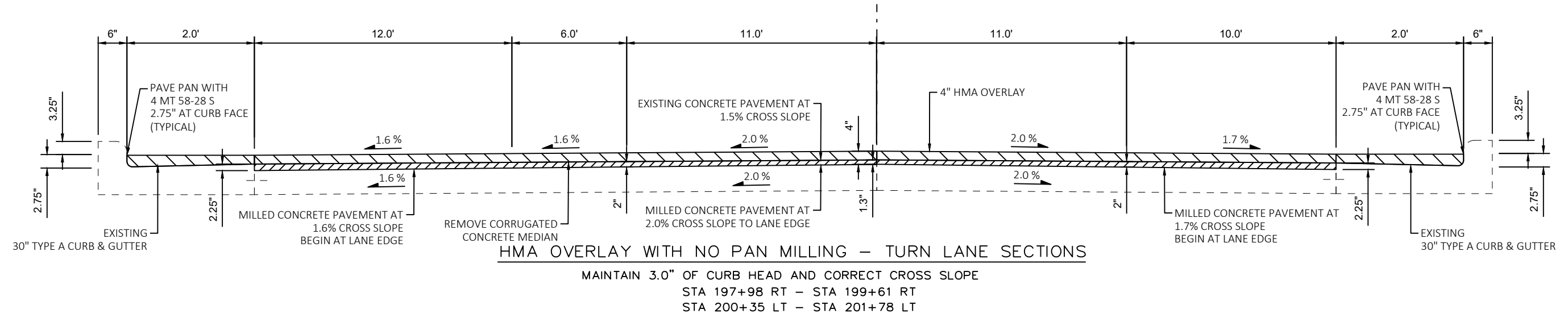
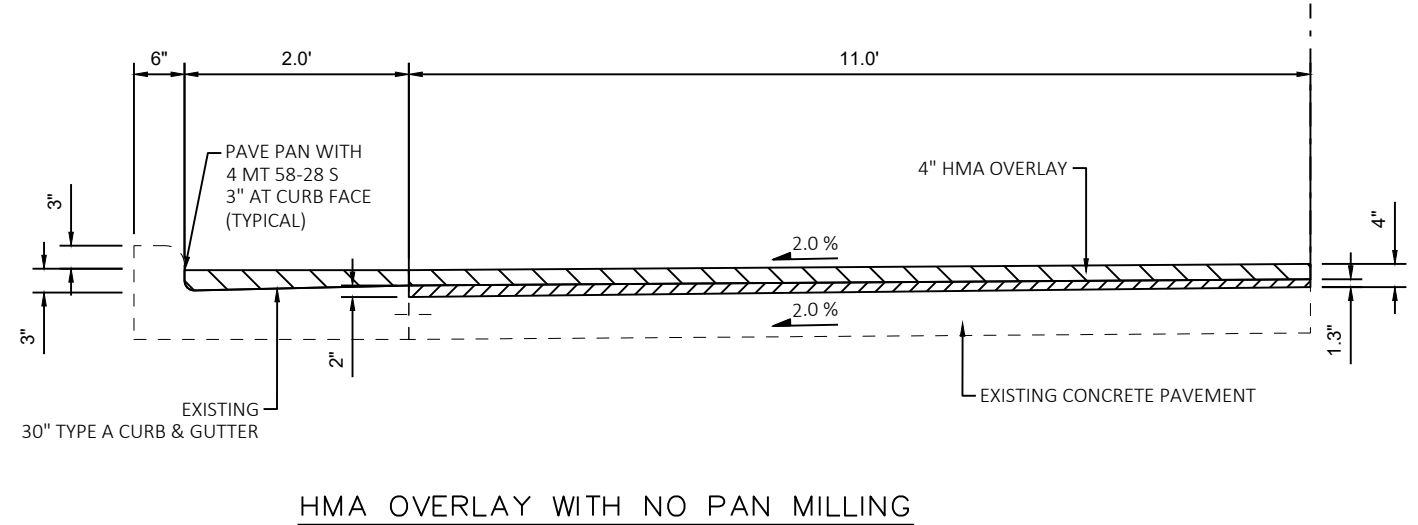
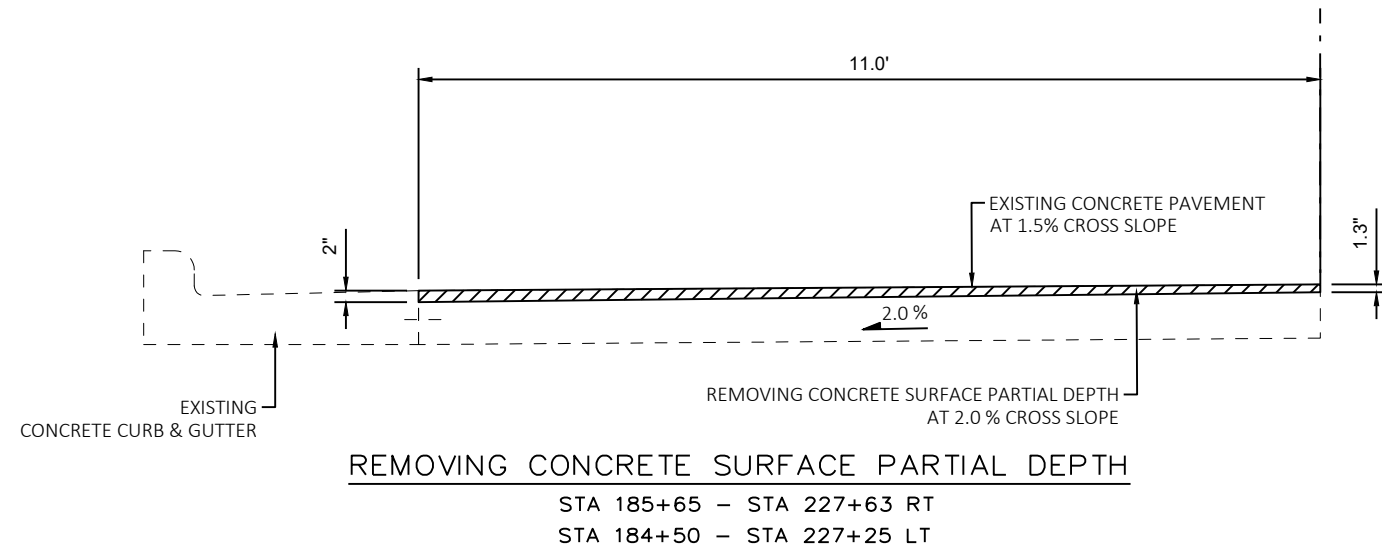
**CONCRETE BUTT JOINT DETAIL**

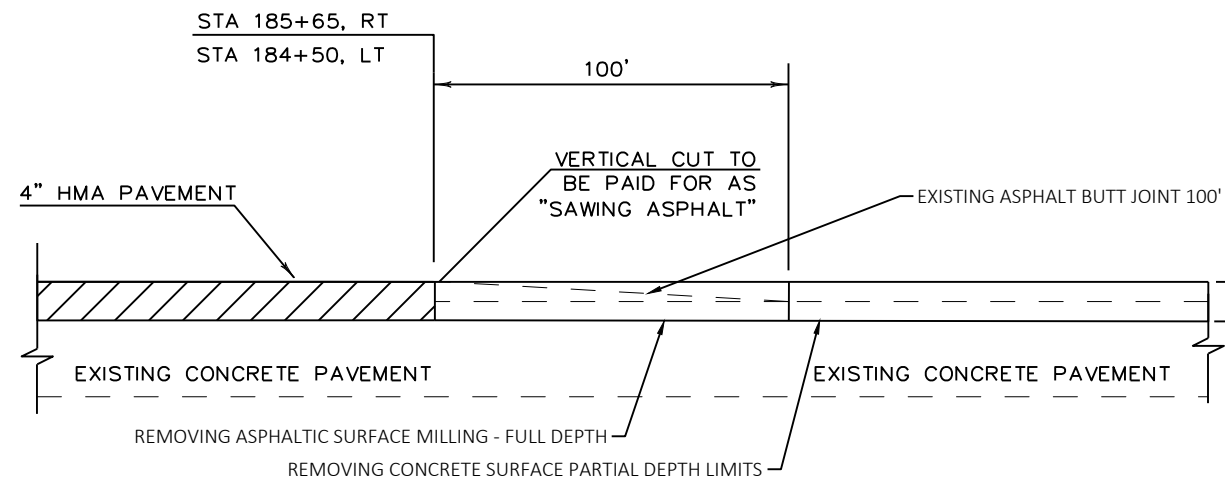
GREEN HAZE AVE
STA 197+00, LT

**DRIVEWAY BUTT JOINT DETAIL – 4" OVERLAY SECTION**

DRIVEWAYS

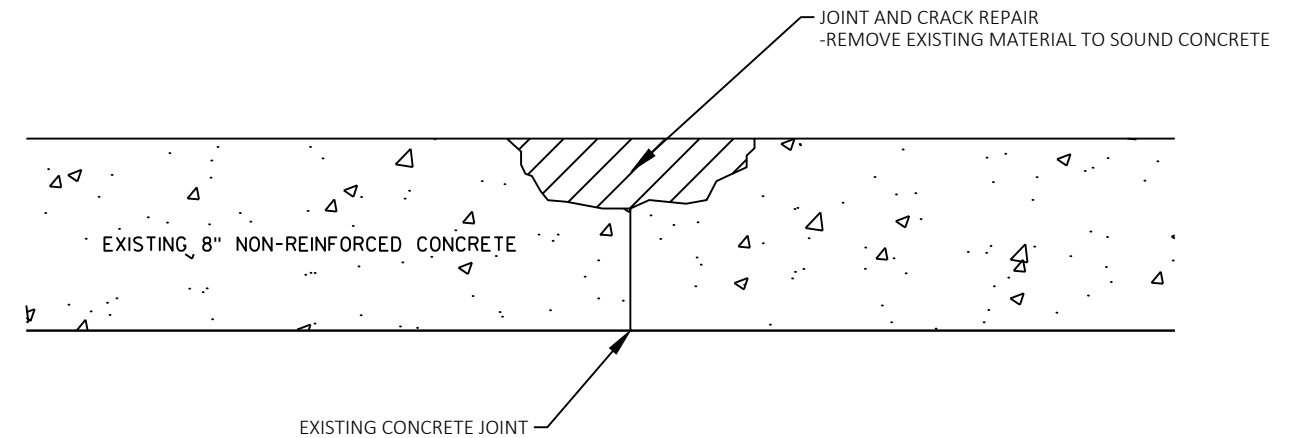
STA 184+50 TO STA 227+25, LT
STA 186+65 TO STA 227+63, RT





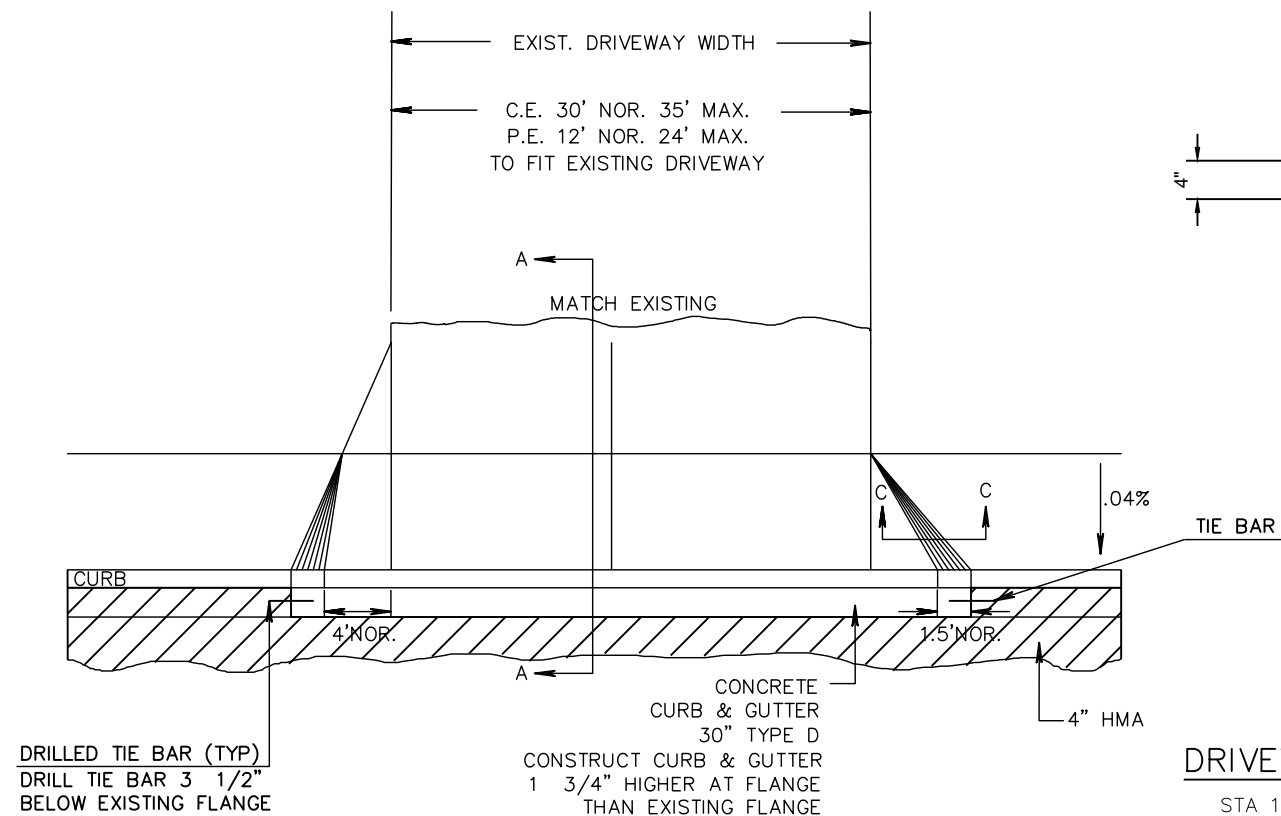
PAVEMENT TRANSITION DETAIL

STA 185+65 TO STA 186+65, RT
STA 184+50 TO STA 185+50, LT

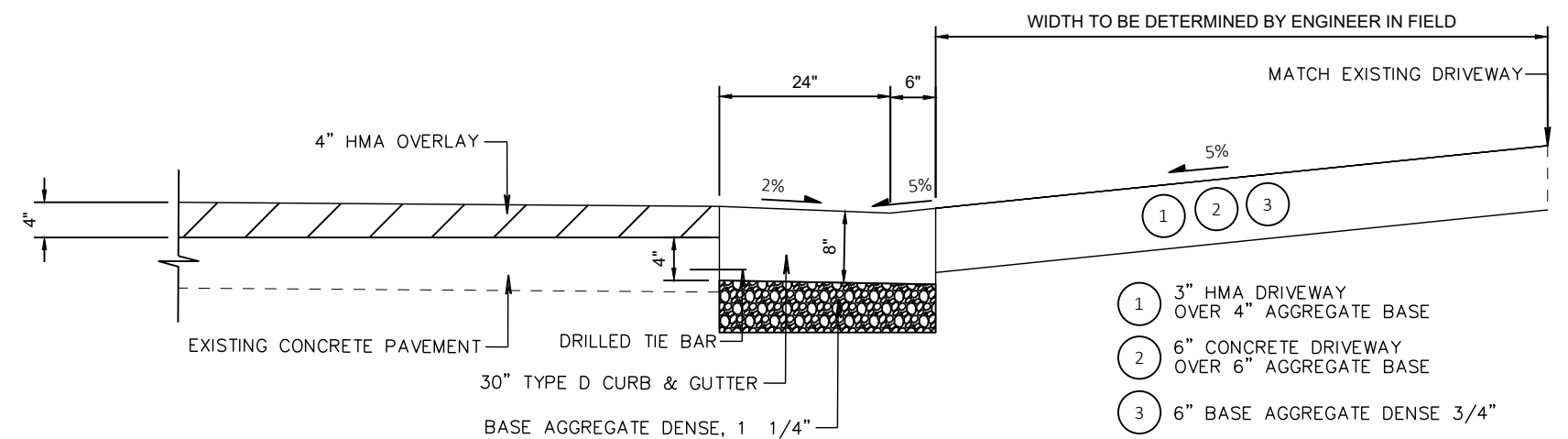


JOINT AND CRACK REPAIR DETAIL

LOCATIONS TO BE DETERMINED BY ENGINEER IN THE FIELD



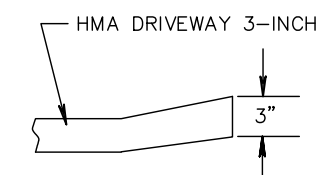
PLAN VIEW



SECTION A-A

- 1 3" HMA DRIVEWAY OVER 4" AGGREGATE BASE
- 2 6" CONCRETE DRIVEWAY OVER 6" AGGREGATE BASE
- 3 6" BASE AGGREGATE DENSE 3/4"

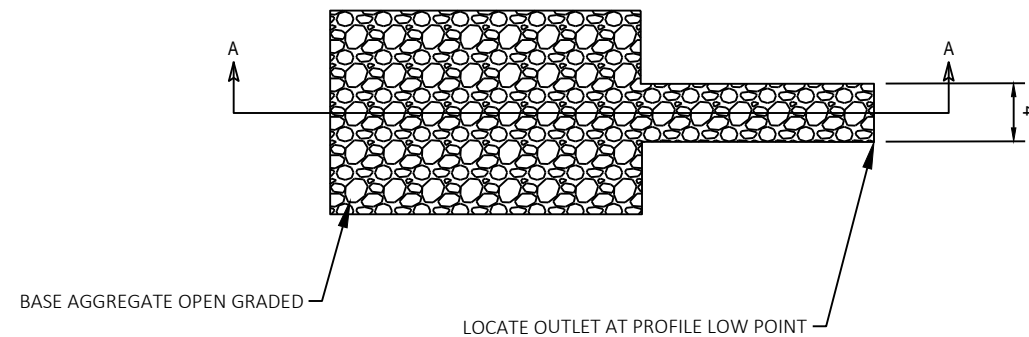
PROPOSED DRIVEWAY TO MATCH EXISTING DRIVEWAY MATERIAL



SECTION C-C

DRIVEWAY ENTRANCE DETAIL WITH CURB & GUTTER

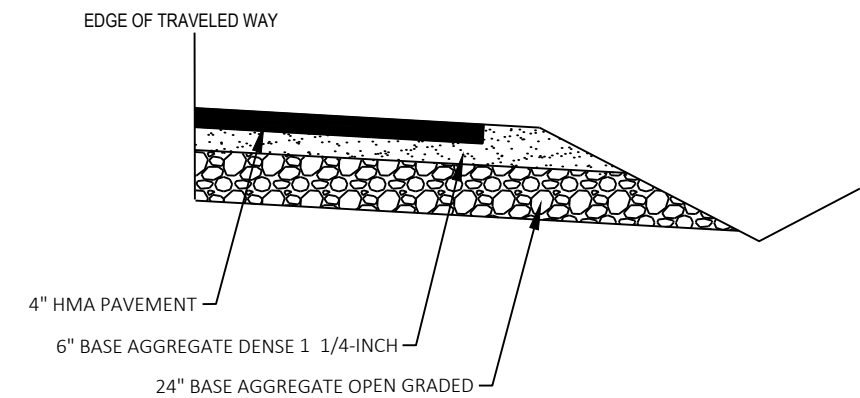
STA 191+46 LT STH 38	STA 197+52 LT STH 38
STA 193+23 LT STH 38	STA 197+80 RT STH 38
STA 193+57 LT STH 38	STA 202+20 RT STH 38
STA 194+78 RT STH 38	STA 223+73 LT STH 38
STA 195+85 RT STH 38	STA 224+16 LT STH 38
STA 196+19 LT STH 38	STA 224+84 LT STH 38
STA 197+27 RT STH 38	STA 225+45 LT STH 38



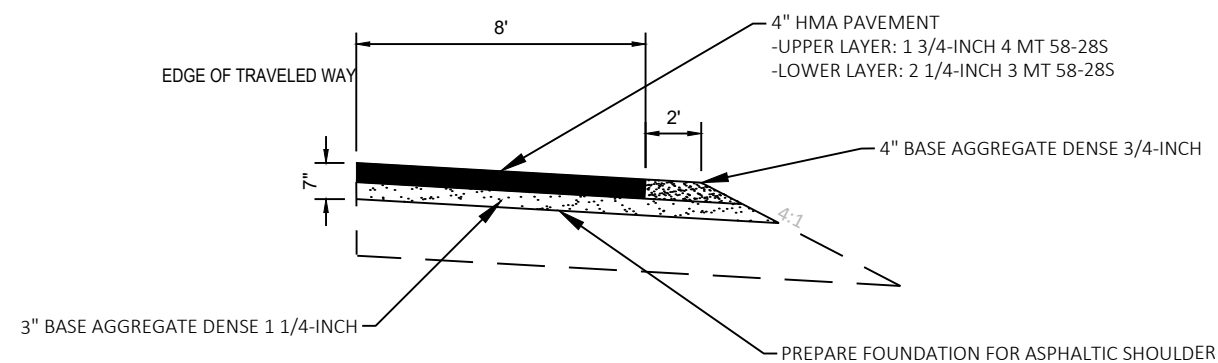
FRENCH DRAIN DETAIL

STA 218+80, LT
CONSTRUCT FRENCH DRAIN AT ALL SUBGRADE IMPROVEMENT AREAS
WHERE DITCHES PRESENT.
LOCATIONS AND DIMENSIONS DETERMINED IN THE FIELD BY THE ENGINEER.

EXCAVATION REQUIRED TO CONSTRUCT FRENCH DRAINS SHALL BE
CONSIDERED INCIDENTAL TO THE ITEM BASE AGGREGATE OPEN GRADED.

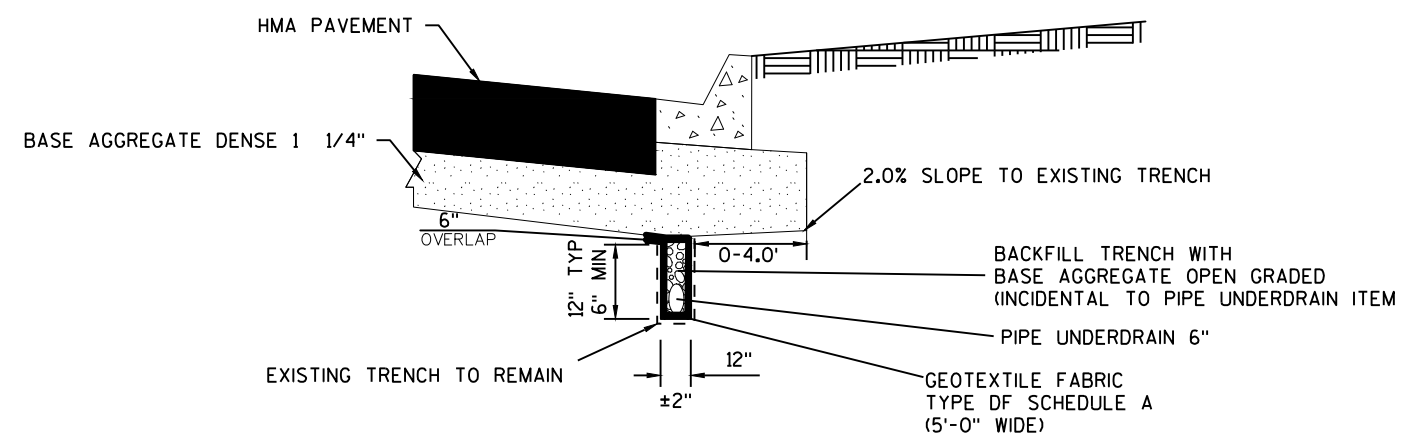


SECTION A-A



PREPARE FOUNDATION FOR ASPHALTIC SHOULDER DETAIL

STA 186+65 RT - 193+00 RT
STA 185+50 LT - 190+50 LT
STA 203+50 RT - 227+50 RT
STA 204+50 LT - 222+00 LT
STA 226+00 LT - 227+25 LT



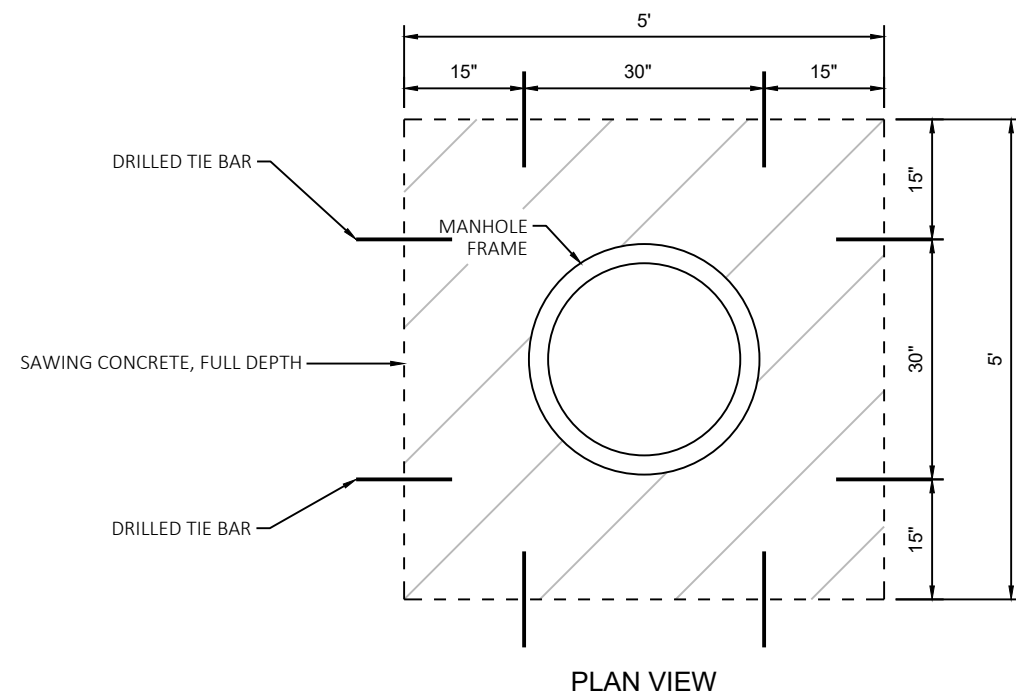
UNDERDRAIN TRENCH DETAIL

STH 38 STA 142+82 TO EMMERTSEN RD STA 33+70

CONNECT PIPE UNDERDRAIN TO EXISTING UNDERDRAIN



REMOVING PAVEMENT (INCIDENTAL TO ADJUSTING/RECONSTRUCTING MANHOLE)



PLAN VIEW

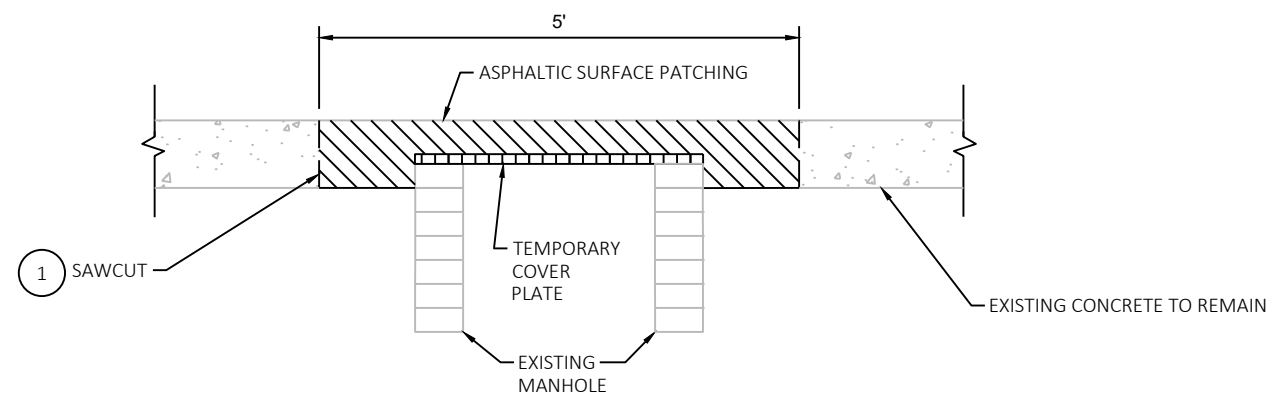
STEP 1

PRIOR TO REMOVING CONCRETE SURFACE PARTIAL DEPTH:

- SAW PAVEMENT FULL DEPTH
- SALVAGE* OR REMOVE MANHOLE COVER
- FURNISH AND INSTALL TEMPORARY COVER PLATE
- BACKFILL USING ASPHALT SURFACE PATCHING

*SALVAGED MANHOLE LOCATIONS

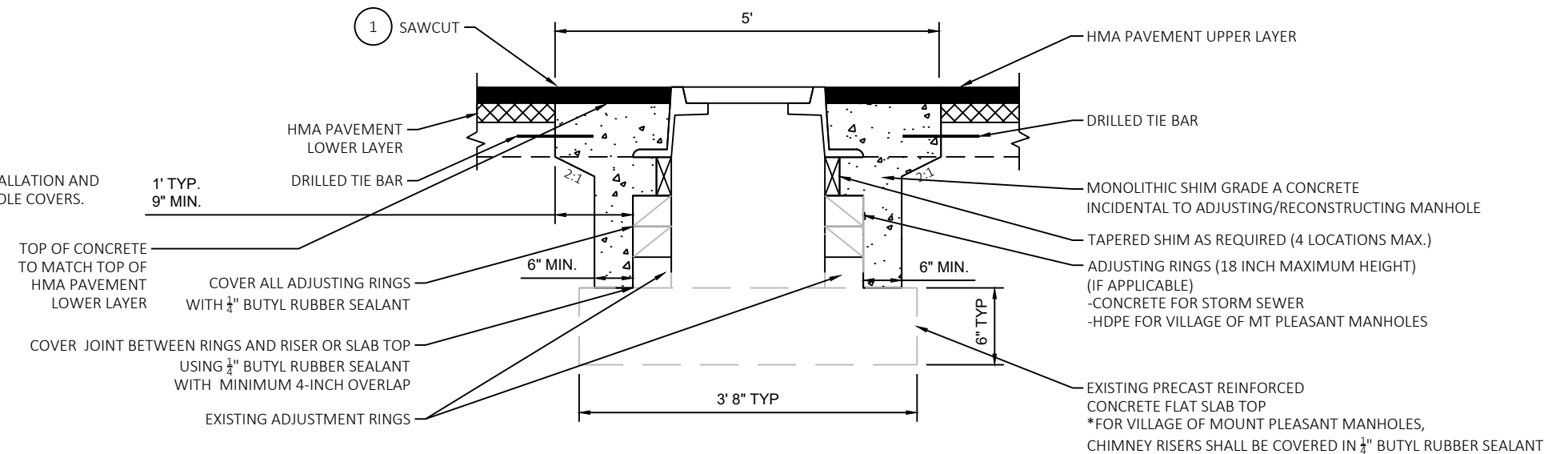
STA 181+42, 30.4' RT	STA 213+72, 25.1' RT
STA 185+38, 31.1' RT	STA 218+11, 28.0' RT
STA 193+25, 29.1' RT	STA 219+39, 40.5' RT
STA 193+55, 38.7' RT	STA 220+05, 34.5' LT
STA 196+19, 24.1' RT	STA 221+59, 35.5' RT
STA 202+44, 14.9' RT	STA 222+73, 40.1' LT
STA 208+22, 23.4' RT	STA 223+82, 27.4' RT
STA 213+59, 14.0' RT	STA 226+83, 35.8' RT

STEP 2

AFTER PAVING LOWER LAYER:

- EXCAVATE AND REMOVE TEMPORARY COVER PLATE
- ADJUST AND REINSTALL SALVAGED MANHOLE FRAME OR INSTALL NEW CASTING AND COVER USING MONOLITHIC CONCRETE SHIM

ALL WORK EXCEPT ASPHALT PATCHING, SAWING CONCRETE, DRILLED TIE BARS, AND INSTALLATION AND REMOVAL OF TEMPORARY COVER PLATE IS INCLUDED IN THE COST OF ADJUSTING MANHOLE COVERS.

ADJUSTING/RECONSTRUCTING MANHOLE DETAILS

PROJECT NO: 2290-22-70

HWY: STH 38

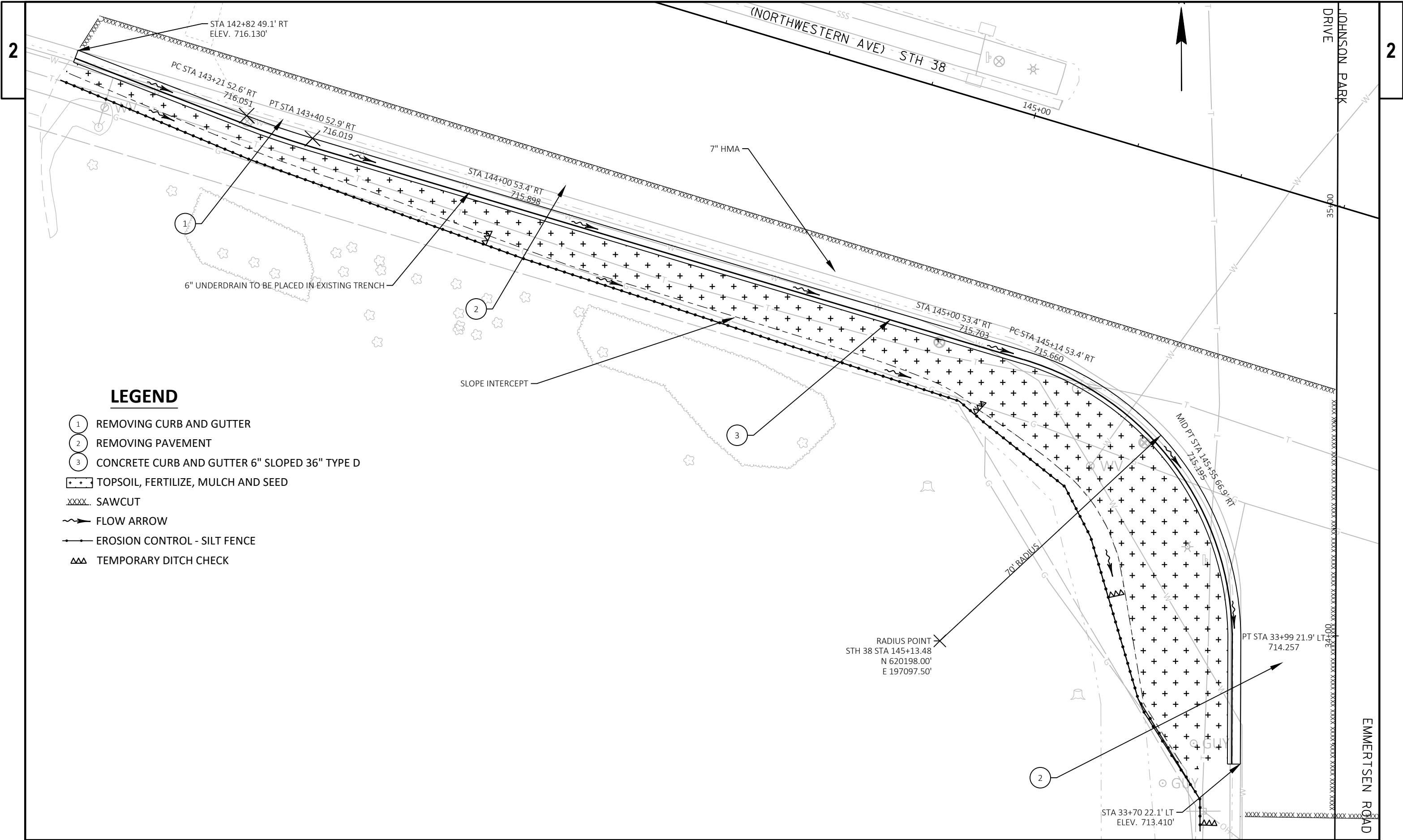
COUNTY: RACINE

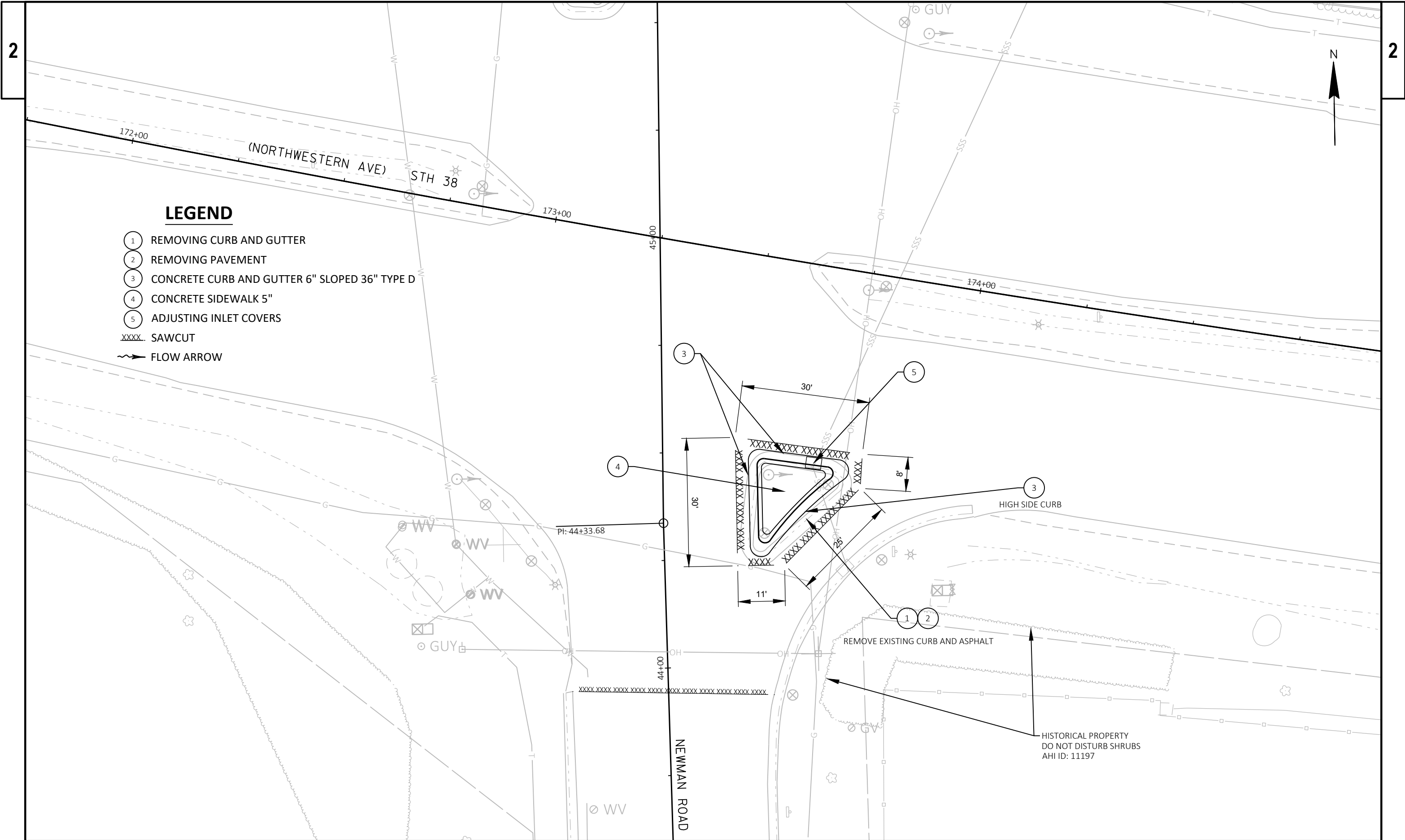
CONSTRUCTION DETAILS

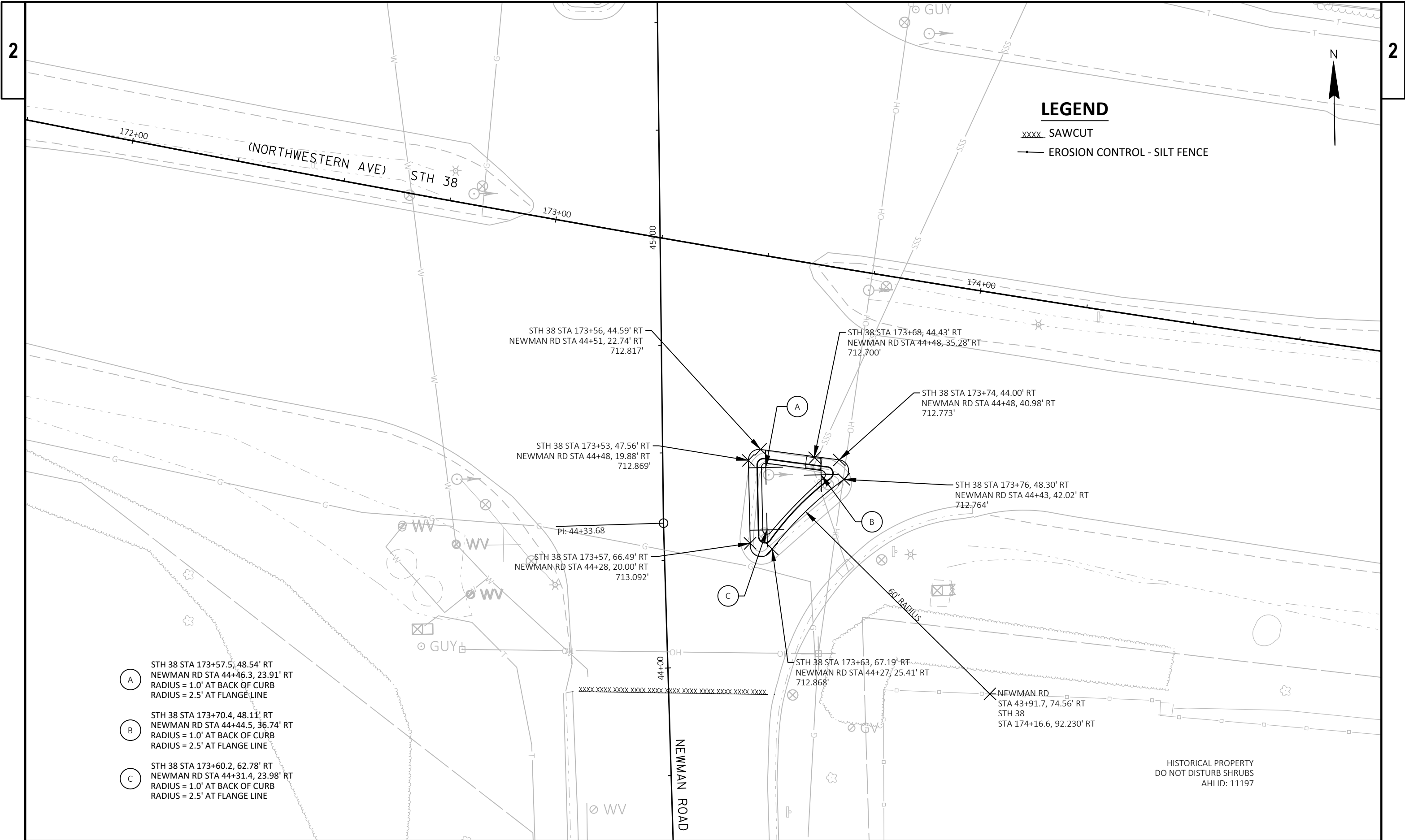
SHEET

PRE_19

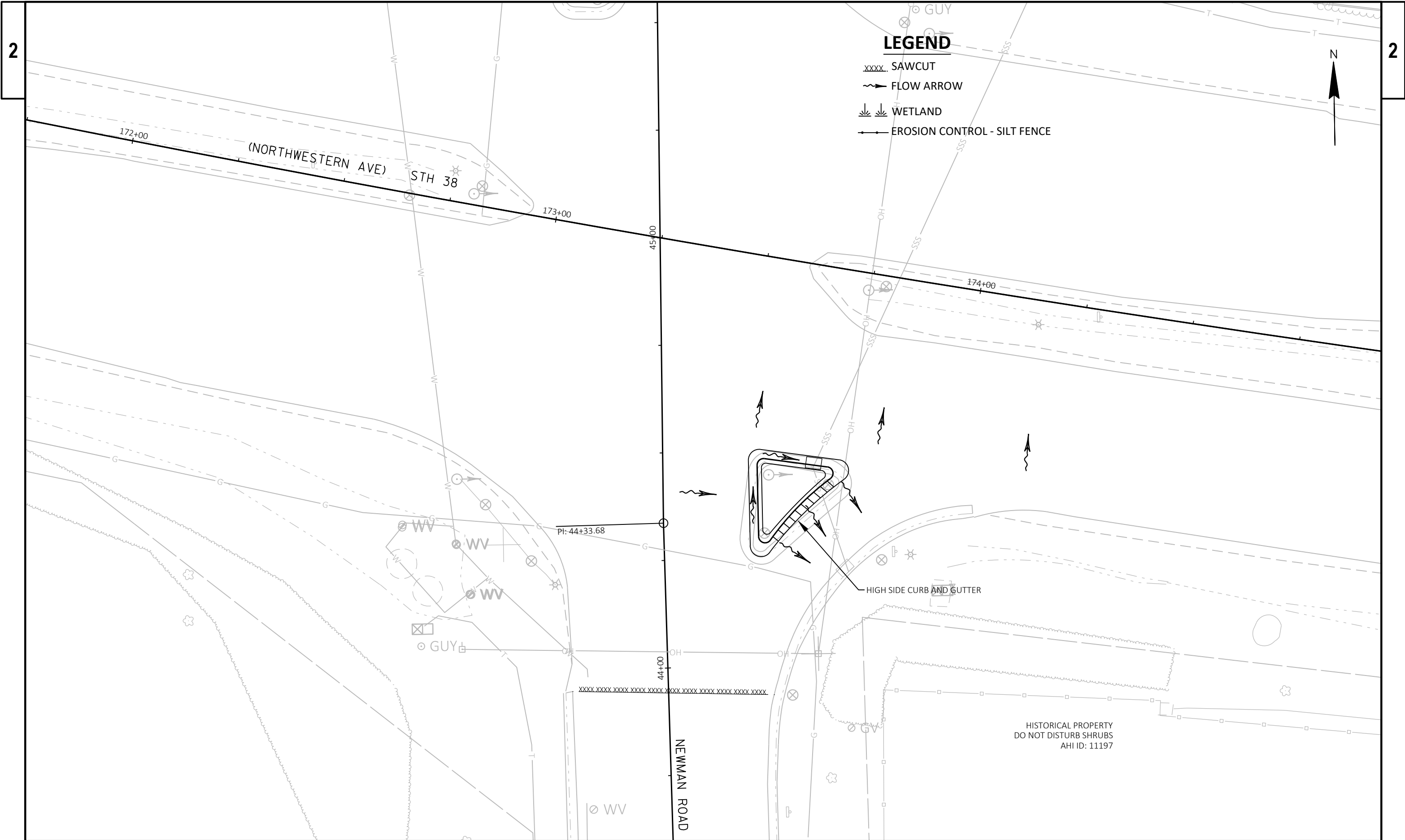
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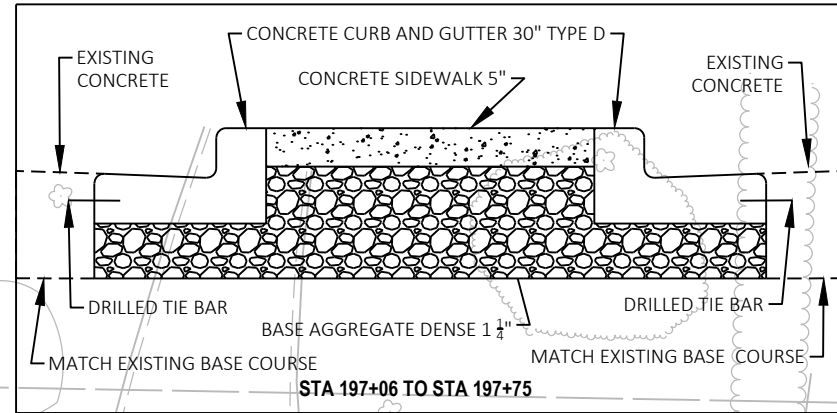


- A STH 38 STA 173+57.5, 48.54' RT
NEWMAN RD STA 44+46.3, 23.91' RT
RADIUS = 1.0' AT BACK OF CURB
RADIUS = 2.5' AT FLANGE LINE
- B STH 38 STA 173+70.4, 48.11' RT
NEWMAN RD STA 44+44.5, 36.74' RT
RADIUS = 1.0' AT BACK OF CURB
RADIUS = 2.5' AT FLANGE LINE
- C STH 38 STA 173+60.2, 62.78' RT
NEWMAN RD STA 44+31.4, 23.98' RT
RADIUS = 1.0' AT BACK OF CURB
RADIUS = 2.5' AT FLANGE LINE



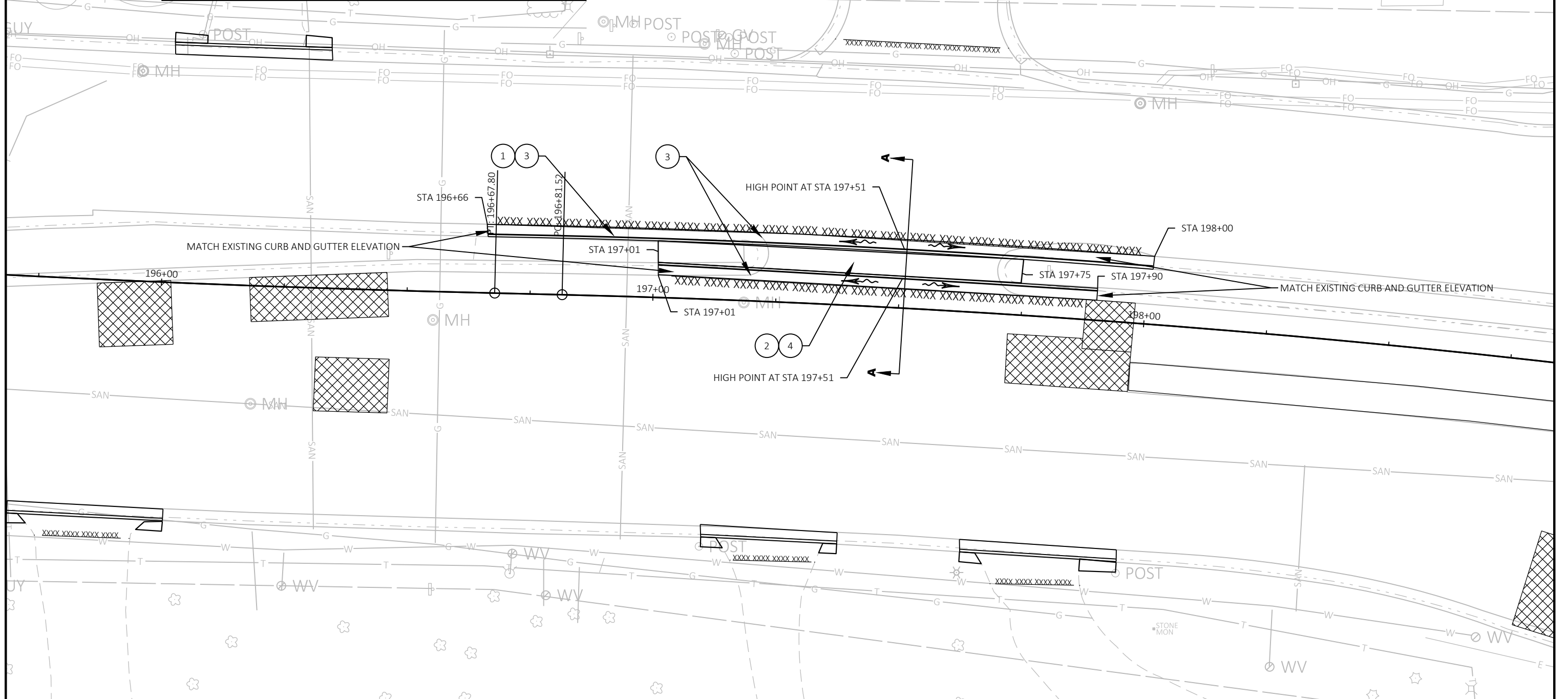
SECTION A-A

NOT TO SCALE



LEGEND

- 1 REMOVING CURB AND GUTTER
- 2 REMOVING PAVEMENT
- 3 CONCRETE CURB AND GUTTER 30" TYPE D
- 4 CONCRETE SIDEWALK 5"
- BASE PATCHING CONCRETE
- SAWCUT
- FLOW ARROW



PROJECT NO: 2290-22-70

HWY: STH 38

COUNTY: RACINE

MEDIAN CLOSURE DETAIL - STH 38 - STA 196+00-198+00

SHEET

PRE_24

E

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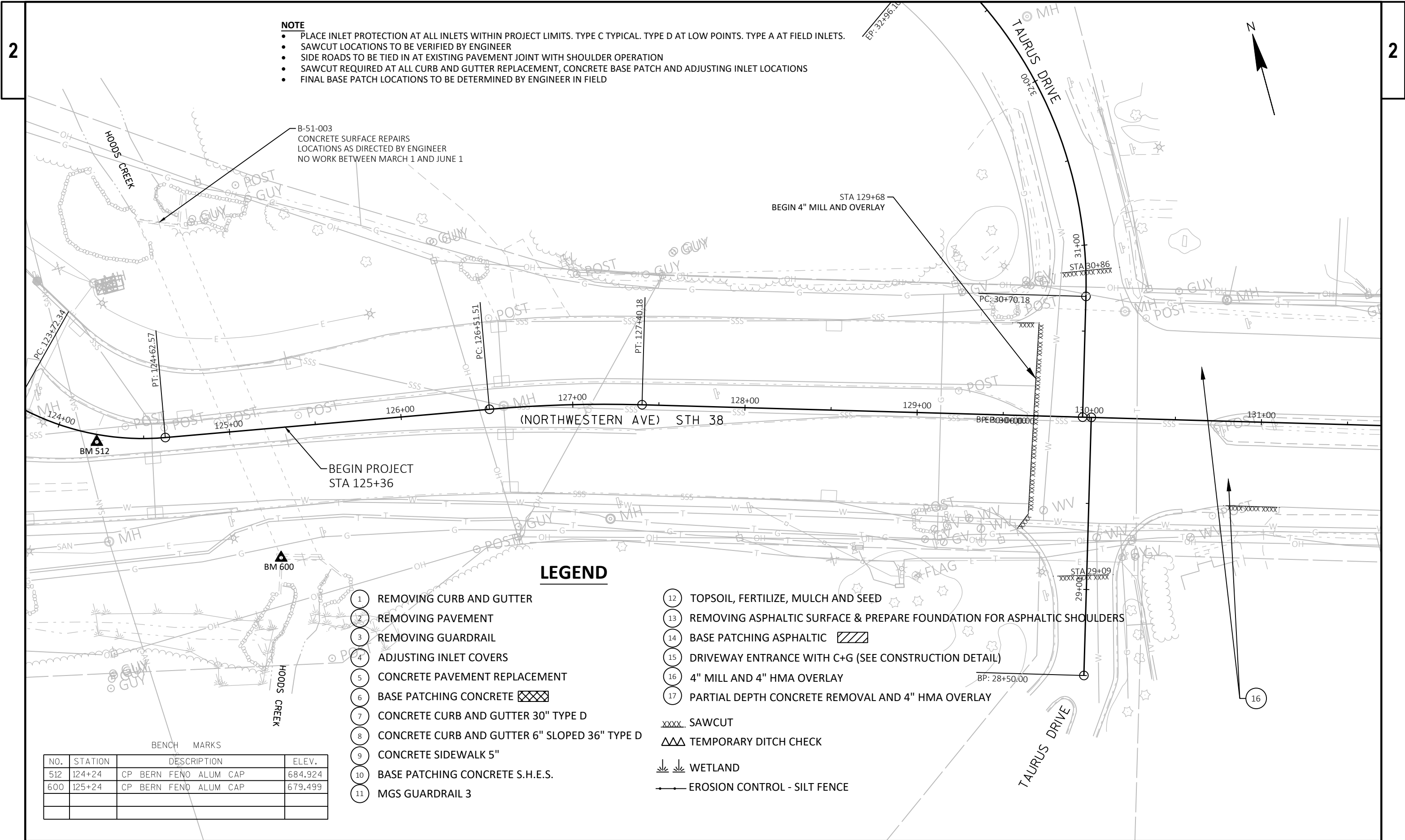
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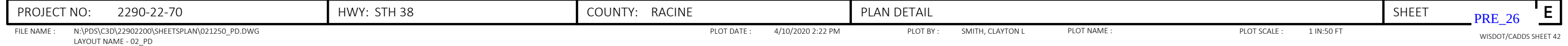
PLOT BY: SMITH, CLAYTON L

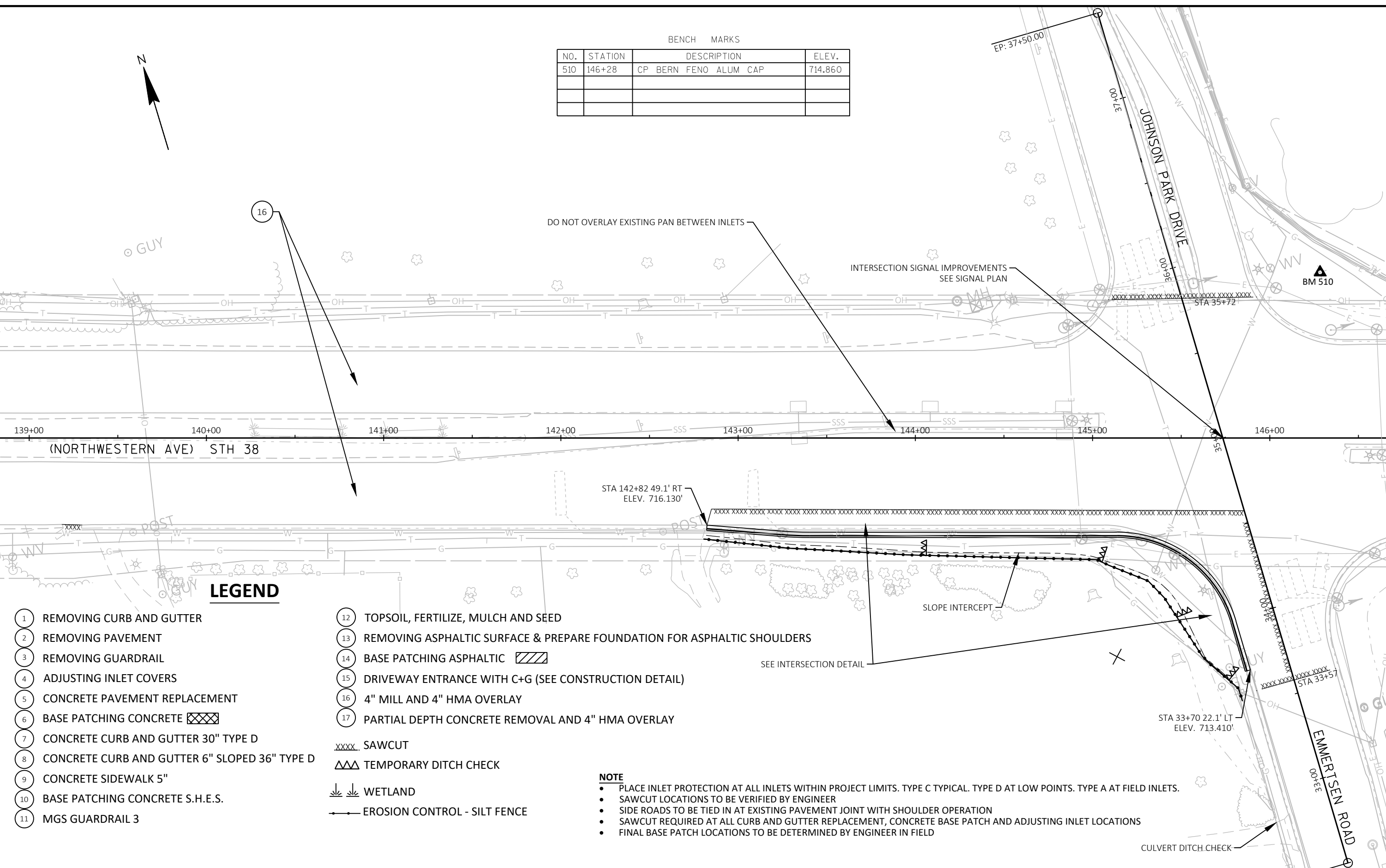
PLOT NAME:

PLOT SCALE: 1 IN=20 FT

WISDOT/CADDs SHEET 42







BENCH MARKS			
NO.	STATION	DESCRIPTION	ELEV.
510	146+28	CP BERN FENO ALUM CAP	714.860

LEGEND

- 1

REMOVING CURB AND GUTTER
- 2

REMOVING PAVEMENT
- 3

REMOVING GUARDRAIL
- 4

ADJUSTING INLET COVERS
- 5

CONCRETE PAVEMENT REPLACEMENT
- 6

BASE PATCHING CONCRETE
- 7

CONCRETE CURB AND GUTTER 30" TYPE D
- 8

CONCRETE CURB AND GUTTER 6" SLOPED 36" TYPE D
- 9

CONCRETE SIDEWALK 5"
- 10

BASE PATCHING CONCRETE S.H.E.S.
- 11

MGS GUARDRAIL 3

12

TOPSOIL, FERTILIZE, MULCH AND SEED

13

REMOVING ASPHALTIC SURFACE & PREPARE FOUNDATION FOR ASPHALTIC SHOULDERS

14

BASE PATCHING ASPHALTIC

15

DRIVEWAY ENTRANCE WITH C+G (SEE CONSTRUCTION DETAIL)

16

4" MILL AND 4" HMA OVERLAY

17

PARTIAL DEPTH CONCRETE REMOVAL AND 4" HMA OVERLAY

XXXX

SAWCUT

AAA

TEMPORARY DITCH CHECK

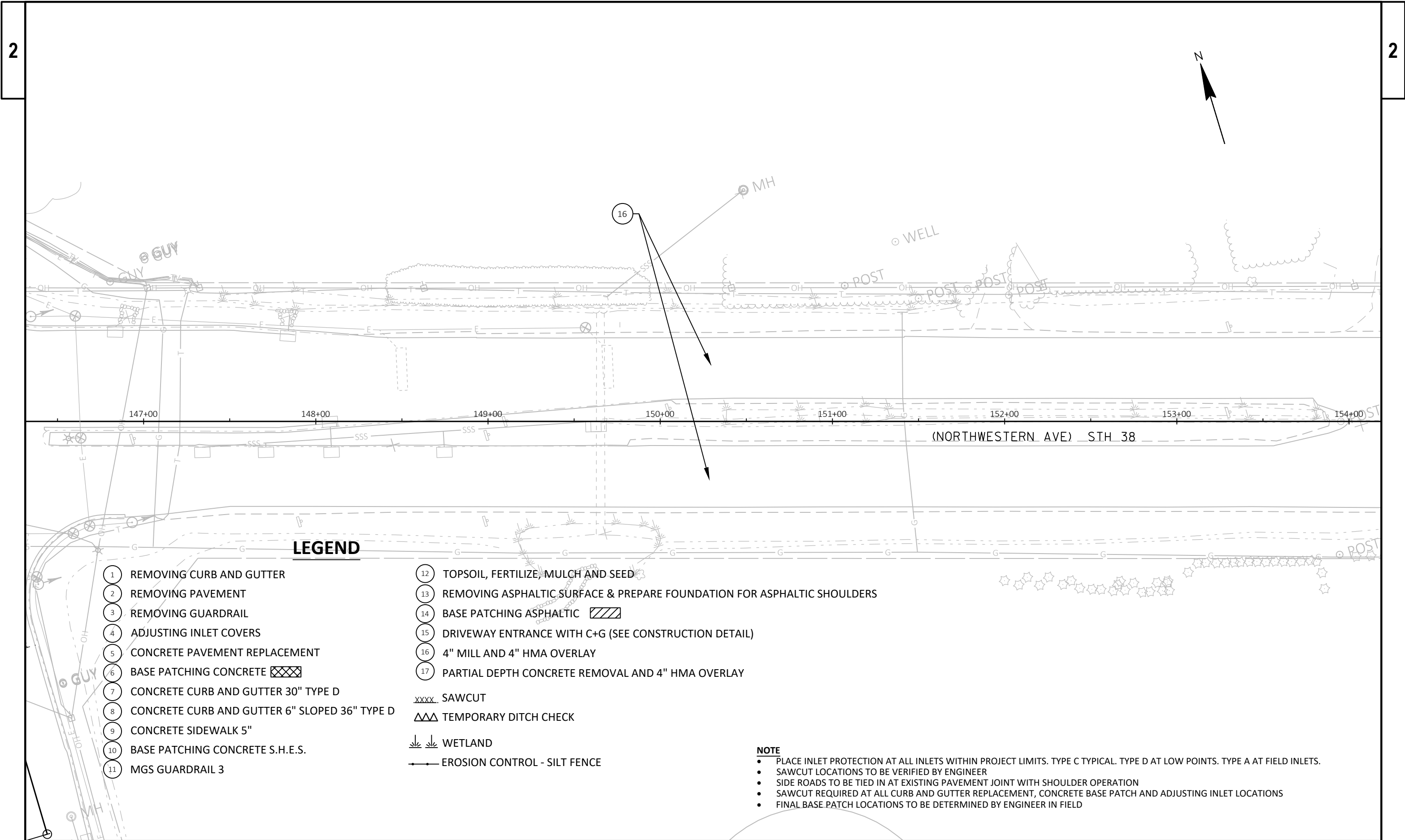
WETLAND

WETLAND

EROSION CONTROL - SILT FENCE

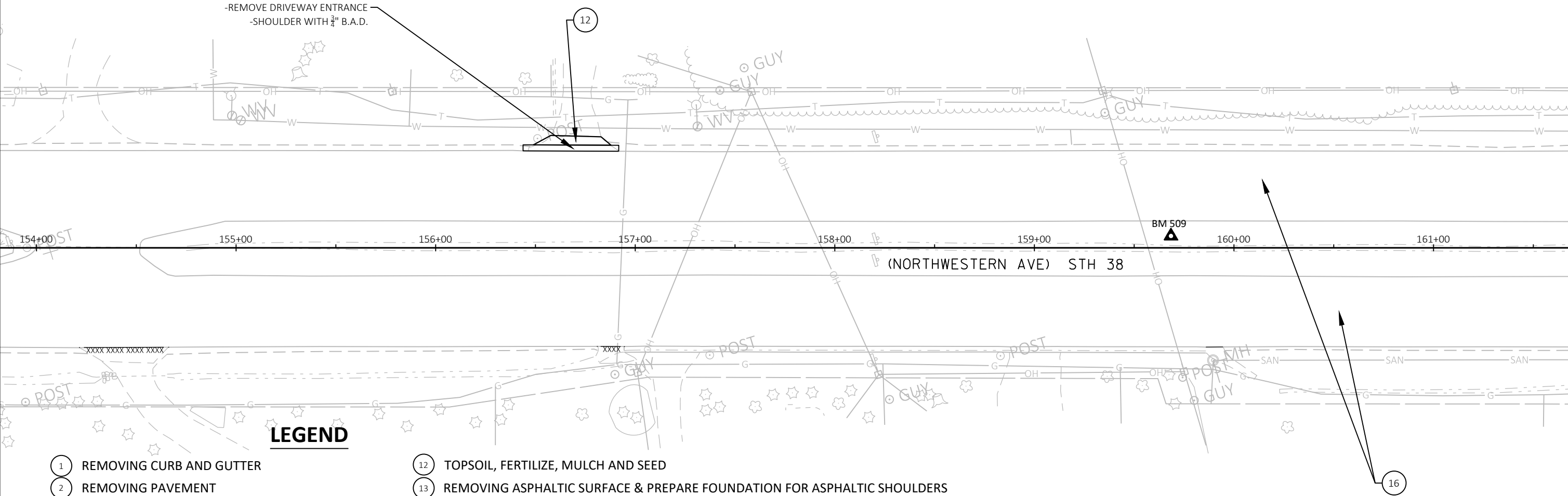
EROSION CONTROL - SILT FENCE

- NOTE
- PLACE INLET PROTECTION AT ALL INLETS WITHIN PROJECT LIMITS. TYPE C TYPICAL. TYPE D AT LOW POINTS. TYPE A AT FIELD INLETS.
 - SAWCUT LOCATIONS TO BE VERIFIED BY ENGINEER
 - SIDE ROADS TO BE TIED IN AT EXISTING PAVEMENT JOINT WITH SHOULDER OPERATION
 - SAWCUT REQUIRED AT ALL CURB AND GUTTER REPLACEMENT, CONCRETE BASE PATCH AND ADJUSTING INLET LOCATIONS
 - FINAL BASE PATCH LOCATIONS TO BE DETERMINED BY ENGINEER IN FIELD



BENCH MARKS

NO.	STATION	DESCRIPTION	ELEV.
509	159+68	CP BERN FENO ALUM CAP	733.756



LEGEND

- 1

REMOVING CURB AND GUTTER
- 2

REMOVING PAVEMENT
- 3

REMOVING GUARDRAIL
- 4

ADJUSTING INLET COVERS
- 5

CONCRETE PAVEMENT REPLACEMENT
- 6

BASE PATCHING CONCRETE
- 7

CONCRETE CURB AND GUTTER 30" TYPE D
- 8

CONCRETE CURB AND GUTTER 6" SLOPED 36" TYPE D
- 9

CONCRETE SIDEWALK 5"
- 10

BASE PATCHING CONCRETE S.H.E.S.
- 11

MGS GUARDRAIL 3

12

TOPSOIL, FERTILIZE, MULCH AND SEED

13

REMOVING ASPHALTIC SURFACE & PREPARE FOUNDATION FOR ASPHALTIC SHOULDERS

14

BASE PATCHING ASPHALTIC

15

DRIVEWAY ENTRANCE WITH C+G (SEE CONSTRUCTION DETAIL)

16

4" MILL AND 4" HMA OVERLAY

17

PARTIAL DEPTH CONCRETE REMOVAL AND 4" HMA OVERLAY

XXXX

SAWCUT

Temporary Ditch Check

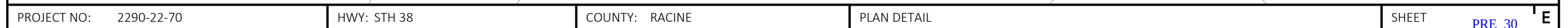
WETLAND

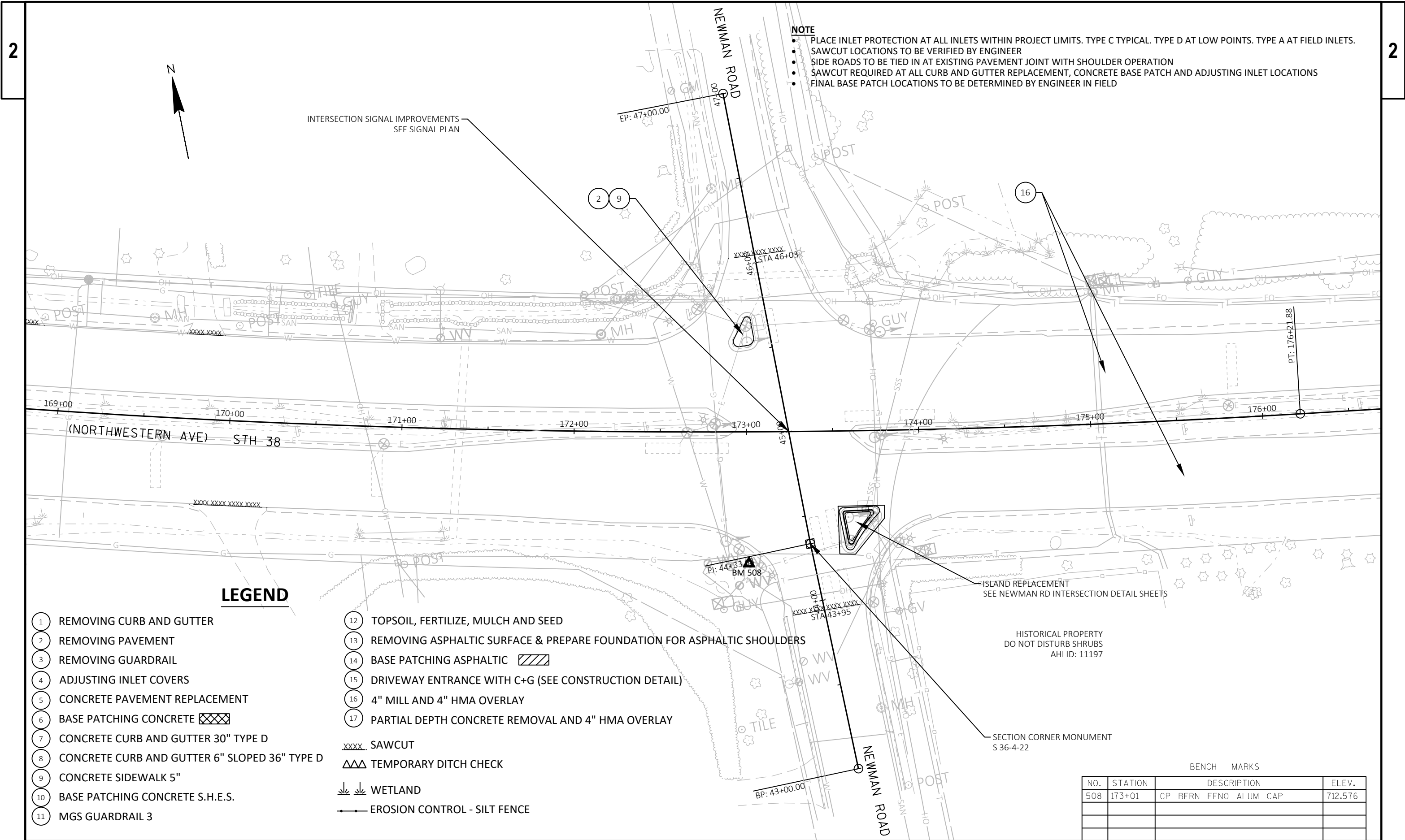
EROSION CONTROL - SILT FENCE

NOTE

- PLACE INLET PROTECTION AT ALL INLETS WITHIN PROJECT LIMITS. TYPE C TYPICAL. TYPE D AT LOW POINTS. TYPE A AT FIELD INLETS.
- SAWCUT LOCATIONS TO BE VERIFIED BY ENGINEER
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- FINAL BASE PATCH LOCATIONS TO BE DETERMINED BY ENGINEER IN FIELD





- NOTE**
- PLACE INLET PROTECTION AT ALL INLETS WITHIN PROJECT LIMITS. TYPE C TYPICAL. TYPE D AT LOW POINTS. TYPE A AT FIELD INLETS.
 - SAWCUT LOCATIONS TO BE VERIFIED BY ENGINEER
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 - SAWCUT REQUIRED AT ALL CURB AND GUTTER REPLACEMENT, CONCRETE BASE PATCH AND ADJUSTING INLET LOCATIONS
 - FINAL BASE PATCH LOCATIONS TO BE DETERMINED BY ENGINEER IN FIELD

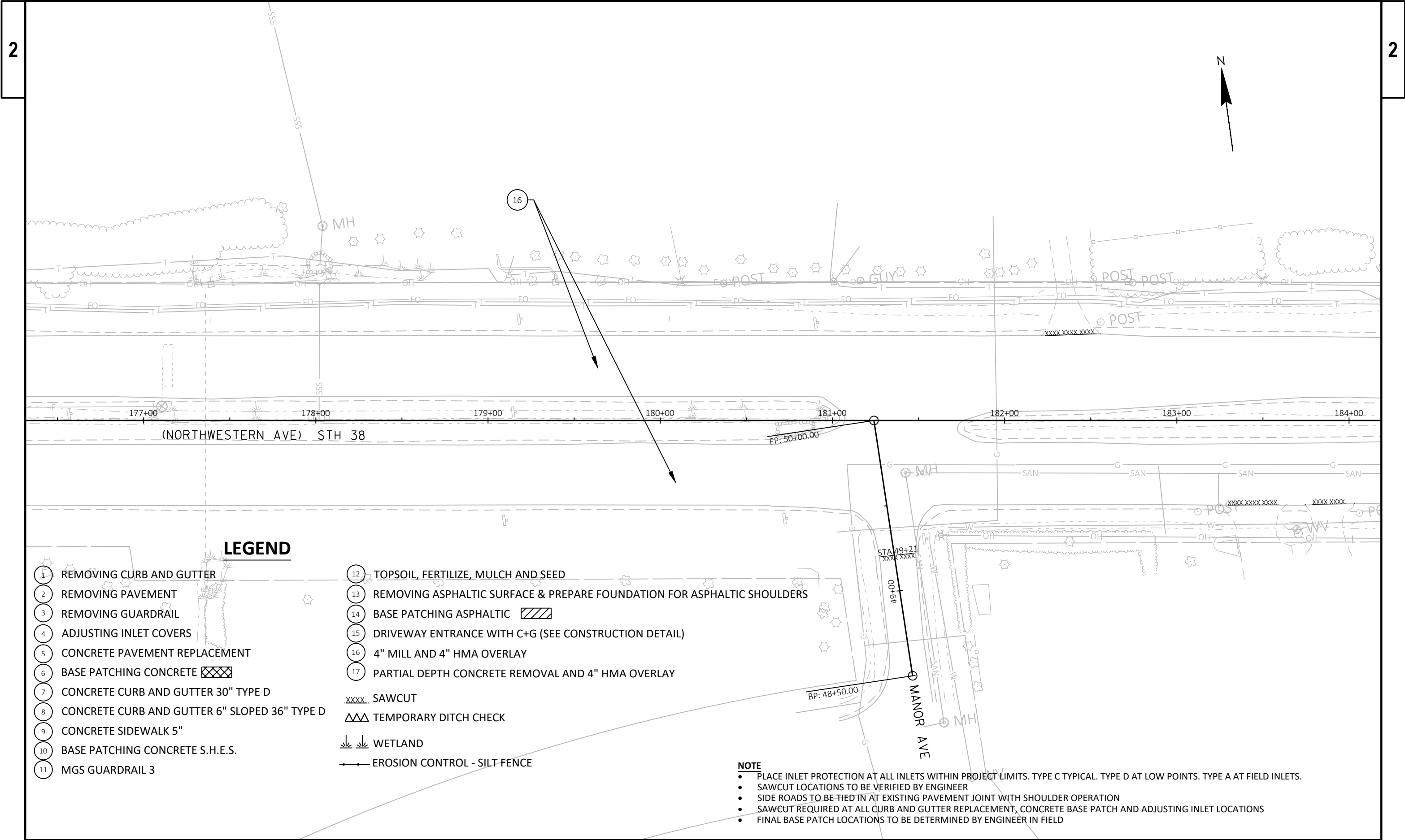
LEGEND

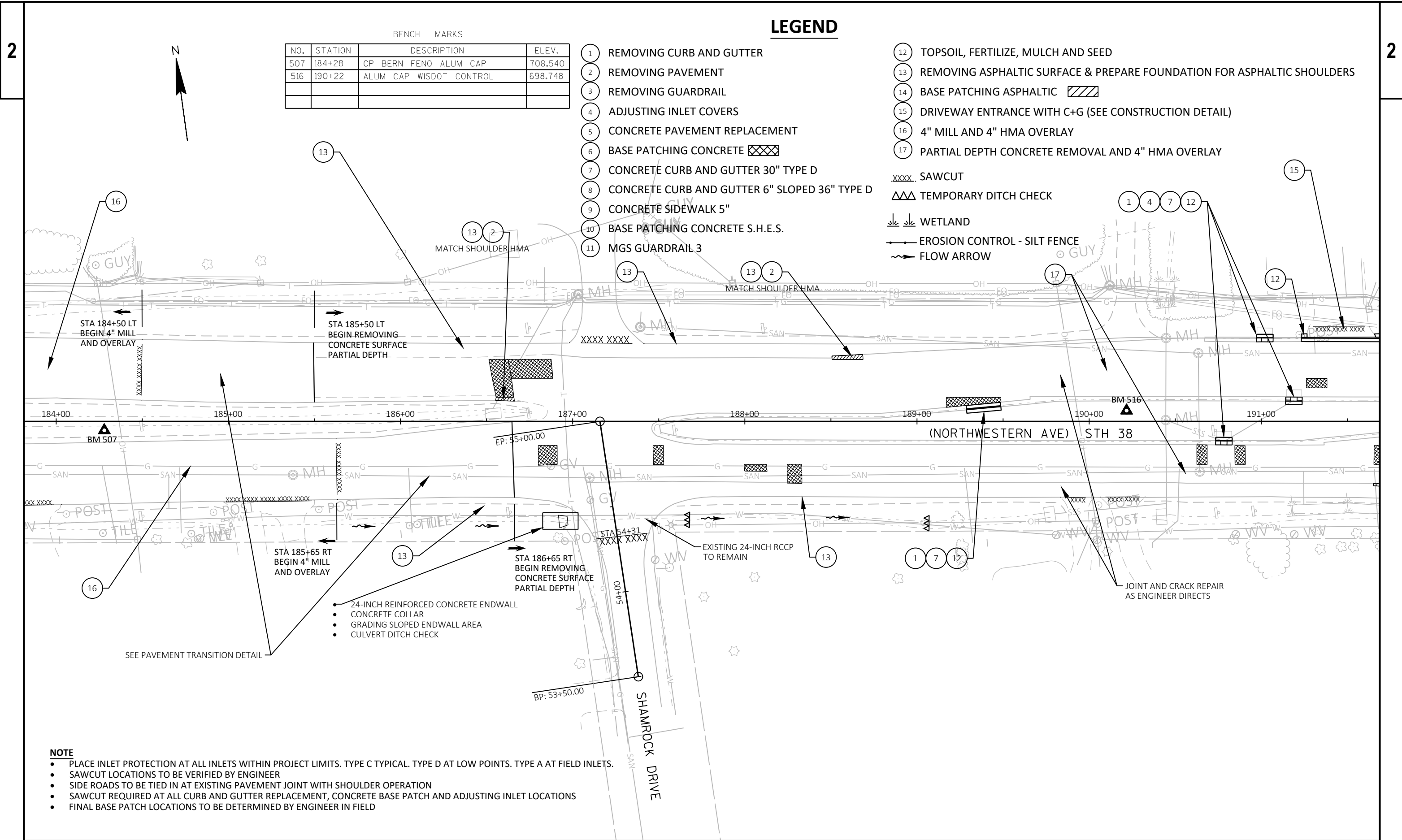
- | | |
|---|--|
| 1 REMOVING CURB AND GUTTER | 12 TOPSOIL, FERTILIZE, MULCH AND SEED |
| 2 REMOVING PAVEMENT | 13 REMOVING ASPHALTIC SURFACE & PREPARE FOUNDATION FOR ASPHALTIC SHOULDERS |
| 3 REMOVING GUARDRAIL | 14 BASE PATCHING ASPHALTIC |
| 4 ADJUSTING INLET COVERS | 15 DRIVEWAY ENTRANCE WITH C+G (SEE CONSTRUCTION DETAIL) |
| 5 CONCRETE PAVEMENT REPLACEMENT | 16 4" MILL AND 4" HMA OVERLAY |
| 6 BASE PATCHING CONCRETE | 17 PARTIAL DEPTH CONCRETE REMOVAL AND 4" HMA OVERLAY |
| 7 CONCRETE CURB AND GUTTER 30" TYPE D | XXXX SAWCUT |
| 8 CONCRETE CURB AND GUTTER 6" SLOPED 36" TYPE D | TEMPORARY DITCH CHECK |
| 9 CONCRETE SIDEWALK 5" | WETLAND |
| 10 BASE PATCHING CONCRETE S.H.E.S. | EROSION CONTROL - SILT FENCE |
| 11 MGS GUARDRAIL 3 | |

HISTORICAL PROPERTY
DO NOT DISTURB SHRUBS
AHI ID: 11197

SECTION CORNER MONUMENT
S 36-4-22

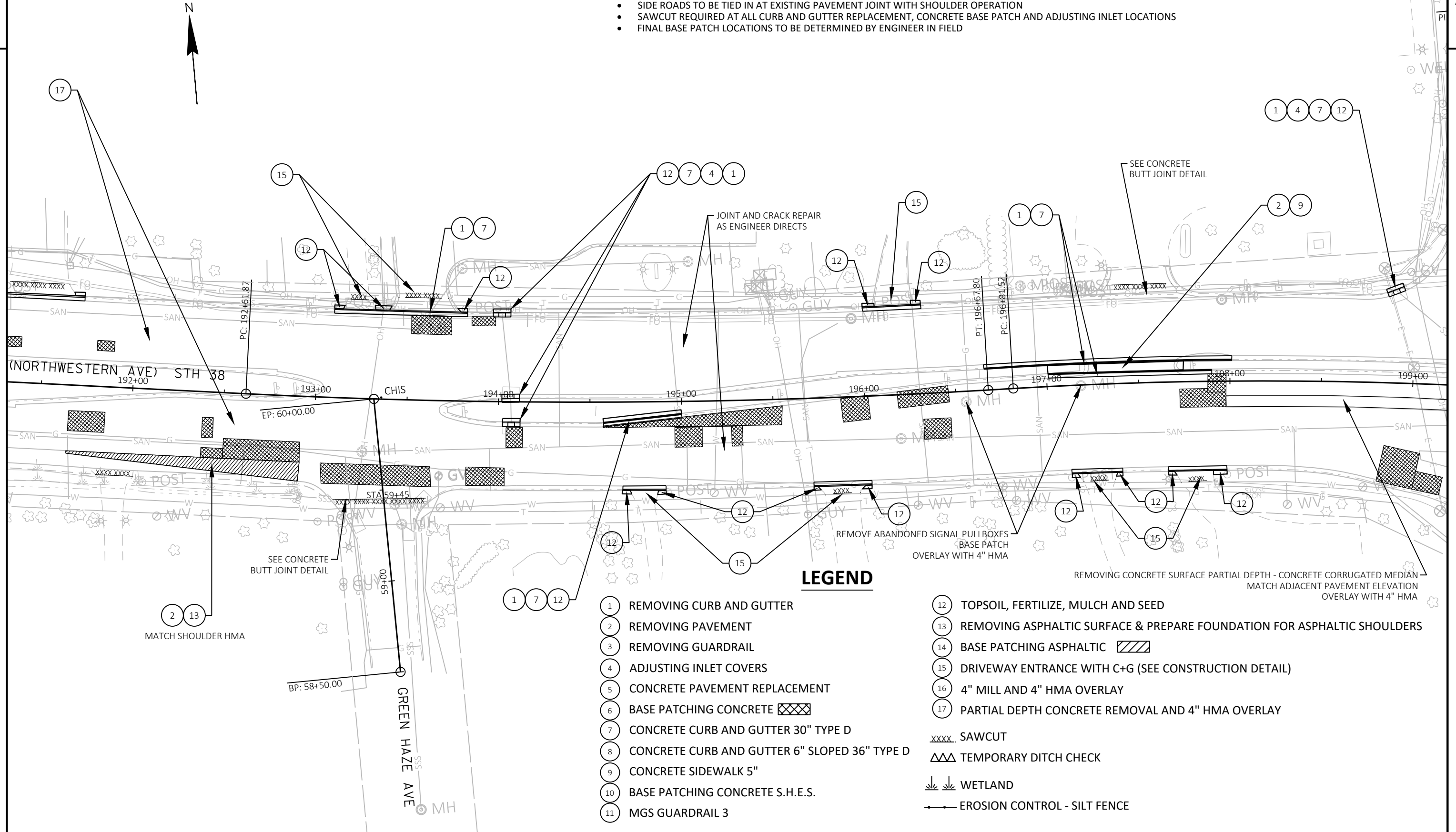
BENCH MARKS			
NO.	STATION	DESCRIPTION	ELEV.
508	173+01	CP BERN FENO ALUM CAP	712.576





NOTE

- PLACE INLET PROTECTION AT ALL INLETS WITHIN PROJECT LIMITS. TYPE C TYPICAL. TYPE D AT LOW POINTS. TYPE A AT FIELD INLETS.
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- SIDE ROADS TO BE TIED IN AT EXISTING PAVEMENT JOINT WITH SHOULDER OPERATION
- SAWCUT REQUIRED AT ALL CURB AND GUTTER REPLACEMENT, CONCRETE BASE PATCH AND ADJUSTING INLET LOCATIONS
- FINAL BASE PATCH LOCATIONS TO BE DETERMINED BY ENGINEER IN FIELD

**LEGEND**

- | | | | |
|----|---|------|---|
| 1 | REMOVING CURB AND GUTTER | 12 | TOPSOIL, FERTILIZE, MULCH AND SEED |
| 2 | REMOVING PAVEMENT | 13 | REMOVING ASPHALTIC SURFACE & PREPARE FOUNDATION FOR ASPHALTIC SHOULDERS |
| 3 | REMOVING GUARDRAIL | 14 | BASE PATCHING ASPHALTIC |
| 4 | ADJUSTING INLET COVERS | 15 | DRIVEWAY ENTRANCE WITH C+G (SEE CONSTRUCTION DETAIL) |
| 5 | CONCRETE PAVEMENT REPLACEMENT | 16 | 4" MILL AND 4" HMA OVERLAY |
| 6 | BASE PATCHING CONCRETE | 17 | PARTIAL DEPTH CONCRETE REMOVAL AND 4" HMA OVERLAY |
| 7 | CONCRETE CURB AND GUTTER 30" TYPE D | | |
| 8 | CONCRETE CURB AND GUTTER 6" SLOPED 36" TYPE D | | |
| 9 | CONCRETE SIDEWALK 5" | | |
| 10 | BASE PATCHING CONCRETE S.H.E.S. | | |
| 11 | MGS GUARDRAIL 3 | | |
| | | xxxx | SAWCUT |
| | | | TEMPORARY DITCH CHECK |
| | | | WETLAND |
| | | | EROSION CONTROL - SILT FENCE |

PROJECT NO: 2290-22-70

HWY: STH 38

COUNTY: RACINE

PLAN DETAIL

SHEET

PRE_34

E

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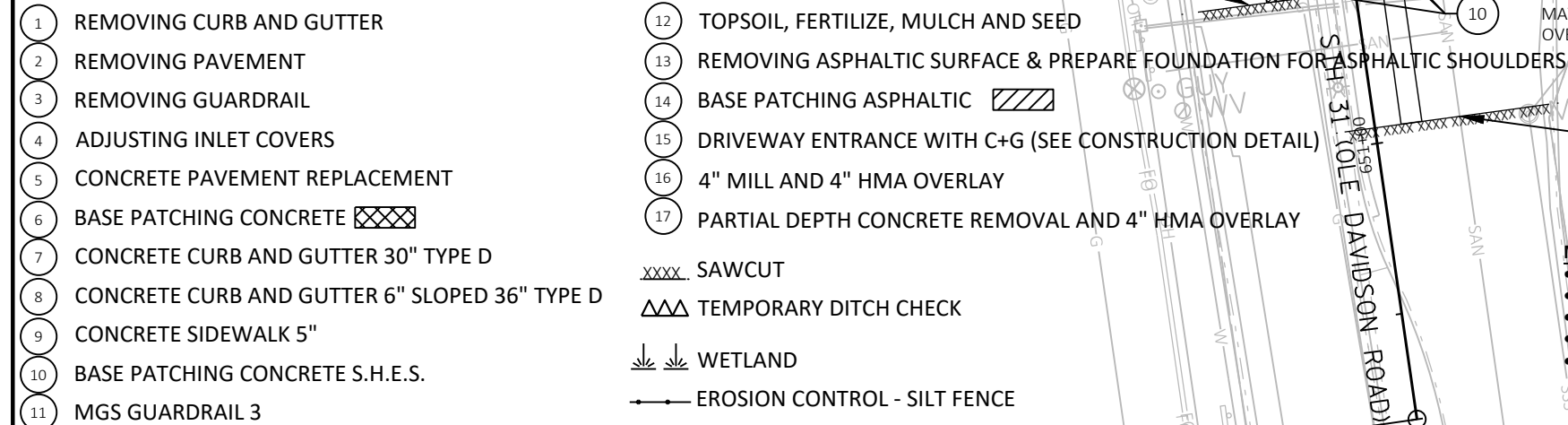
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PLOT BY: SMITH, CLAYTON L

PLOT NAME:

PLOT SCALE: 1 IN:50 FT

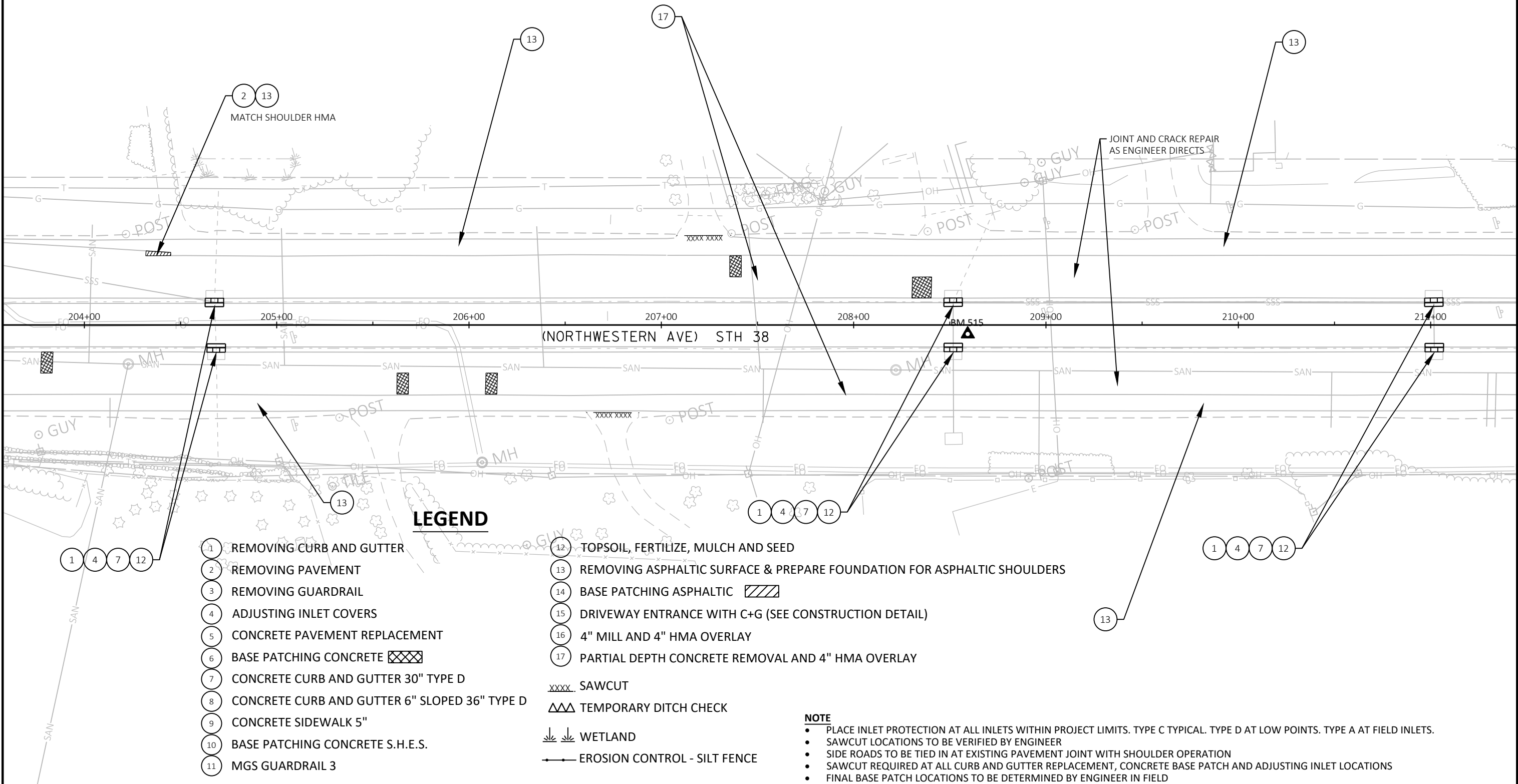
WISDOT/CADDs SHEET 42



NOTE

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- SIDE ROADS TO BE TIED IN AT EXISTING PAVEMENT JOINT WITH SHOULDER OPERATION
- SAWCUT REQUIRED AT ALL CURB AND GUTTER REPLACEMENT, CONCRETE BASE PATCH AND ADJUSTING INLET LOCATIONS
- FINAL BASE PATCH LOCATIONS TO BE DETERMINED BY ENGINEER IN FIELD

BENCH MARKS			
NO.	STATION	DESCRIPTION	ELEV.
515	208+59	ALUM CAP WISDOT CONTROL	688.985



LEGEND

- 1

REMOVING CURB AND GUTTER
- 2

REMOVING PAVEMENT
- 3

REMOVING GUARDRAIL
- 4

ADJUSTING INLET COVERS
- 5

CONCRETE PAVEMENT REPLACEMENT
- 6

BASE PATCHING CONCRETE
- 7

CONCRETE CURB AND GUTTER 30" TYPE D
- 8

CONCRETE CURB AND GUTTER 6" SLOPED 36" TYPE D
- 9

CONCRETE SIDEWALK 5"
- 10

BASE PATCHING CONCRETE S.H.E.S.
- 11

MGS GUARDRAIL 3

12

TOPSOIL, FERTILIZE, MULCH AND SEED

13

REMOVING ASPHALTIC SURFACE & PREPARE FOUNDATION FOR ASPHALTIC SHOULDERS

14

BASE PATCHING ASPHALTIC

15

DRIVEWAY ENTRANCE WITH C+G (SEE CONSTRUCTION DETAIL)

16

4" MILL AND 4" HMA OVERLAY

17

PARTIAL DEPTH CONCRETE REMOVAL AND 4" HMA OVERLAY

XXXX

SAWCUT

▲▲▲

TEMPORARY DITCH CHECK

WETLAND

WETLAND

EROSION CONTROL - SILT FENCE

EROSION CONTROL - SILT FENCE

NOTE

PLACE INLET PROTECTION AT ALL INLETS WITHIN PROJECT LIMITS. TYPE C TYPICAL. TYPE D AT LOW POINTS. TYPE A AT FIELD INLETS.

SAWCUT LOCATIONS TO BE VERIFIED BY ENGINEER

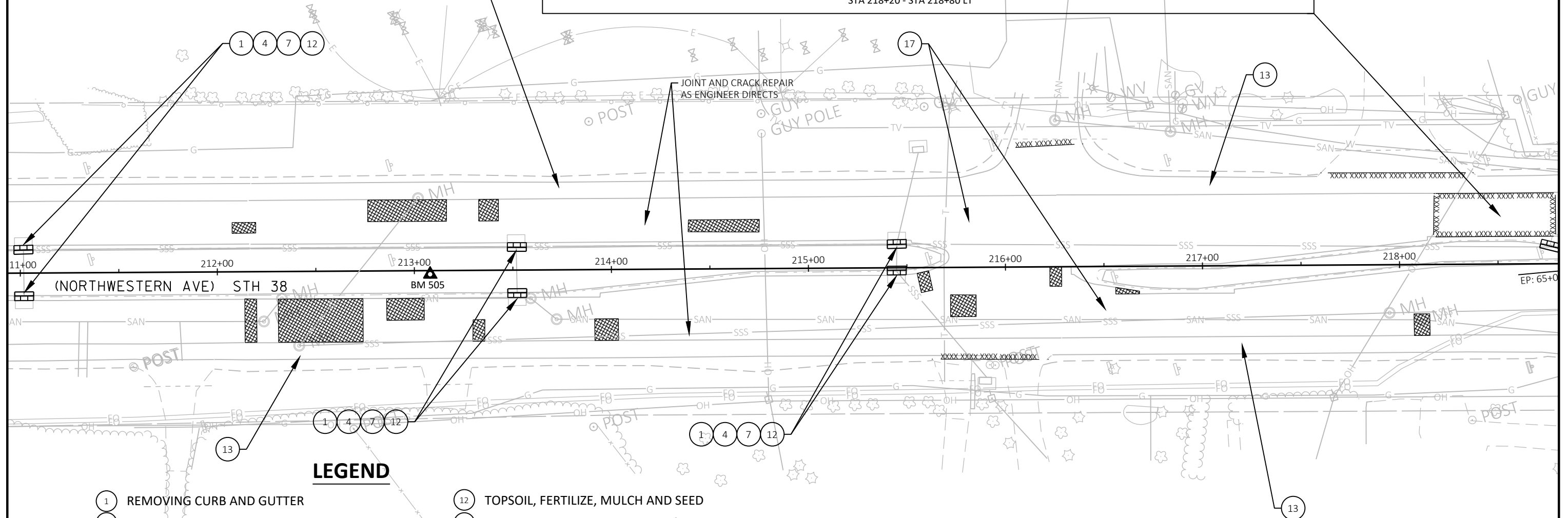
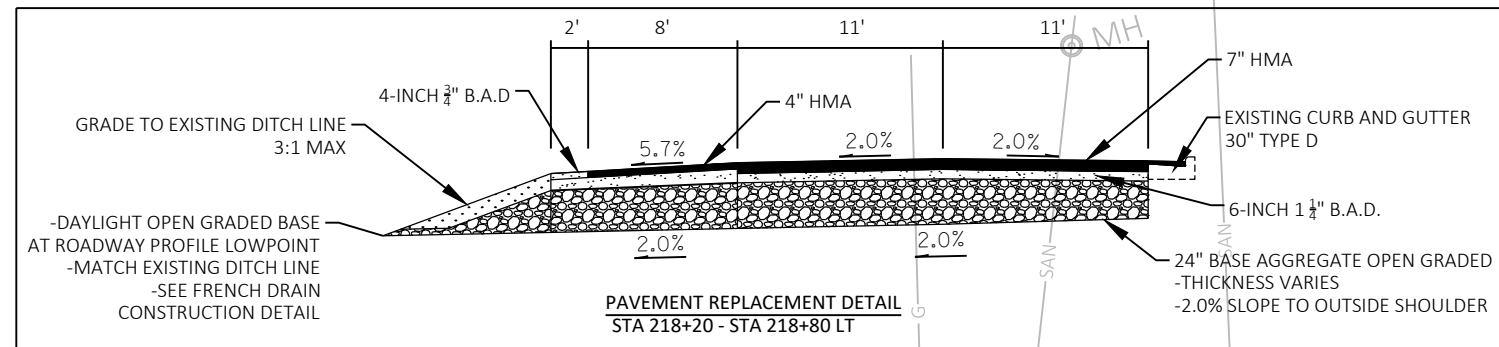
SIDE ROADS TO BE TIED IN AT EXISTING PAVEMENT JOINT WITH SHOULDER OPERATION

SAWCUT REQUIRED AT ALL CURB AND GUTTER REPLACEMENT, CONCRETE BASE PATCH AND ADJUSTING INLET LOCATIONS

FINAL BASE PATCH LOCATIONS TO BE DETERMINED BY ENGINEER IN FIELD

BENCH MARKS

NO.	STATION	DESCRIPTION	ELEV.
505	213+08	CP BERN FENO ALUM CAP	678.098



LEGEND

- | | |
|---|--|
| 1 REMOVING CURB AND GUTTER | 12 TOPSOIL, FERTILIZE, MULCH AND SEED |
| 2 REMOVING PAVEMENT | 13 REMOVING ASPHALTIC SURFACE & PREPARE FOUNDATION FOR ASPHALTIC SHOULDERS |
| 3 REMOVING GUARDRAIL | 14 BASE PATCHING ASPHALTIC |
| 4 ADJUSTING INLET COVERS | 15 DRIVEWAY ENTRANCE WITH C+G (SEE CONSTRUCTION DETAIL) |
| 5 CONCRETE PAVEMENT REPLACEMENT | 16 4\" HMA OVERLAY |
| 6 BASE PATCHING CONCRETE | 17 PARTIAL DEPTH CONCRETE REMOVAL AND 4\" HMA OVERLAY |
| 7 CONCRETE CURB AND GUTTER 30\" TYPE D | XXXX SAWCUT |
| 8 CONCRETE CURB AND GUTTER 6\" SLOPED 36\" TYPE D | TEMPORARY DITCH CHECK |
| 9 CONCRETE SIDEWALK 5\" | WETLAND |
| 10 BASE PATCHING CONCRETE S.H.E.S. | EROSION CONTROL - SILT FENCE |
| 11 MGS GUARDRAIL 3 | |

NOTE

- PLACE INLET PROTECTION AT ALL INLETS WITHIN PROJECT LIMITS. TYPE C TYPICAL. TYPE D AT LOW POINTS. TYPE A AT FIELD INLETS.
- SAWCUT LOCATIONS TO BE VERIFIED BY ENGINEER
- SIDE ROADS TO BE TIED IN AT EXISTING PAVEMENT JOINT WITH SHOULDER OPERATION
- SAWCUT REQUIRED AT ALL CURB AND GUTTER REPLACEMENT, CONCRETE BASE PATCH AND ADJUSTING INLET LOCATIONS
- FINAL BASE PATCH LOCATIONS TO BE DETERMINED BY ENGINEER IN FIELD

PROJECT NO: 2290-22-70

HWY: STH 38

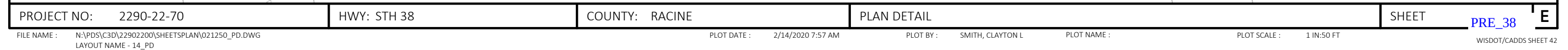
COUNTY: RACINE

PLAN DETAIL

SHEET

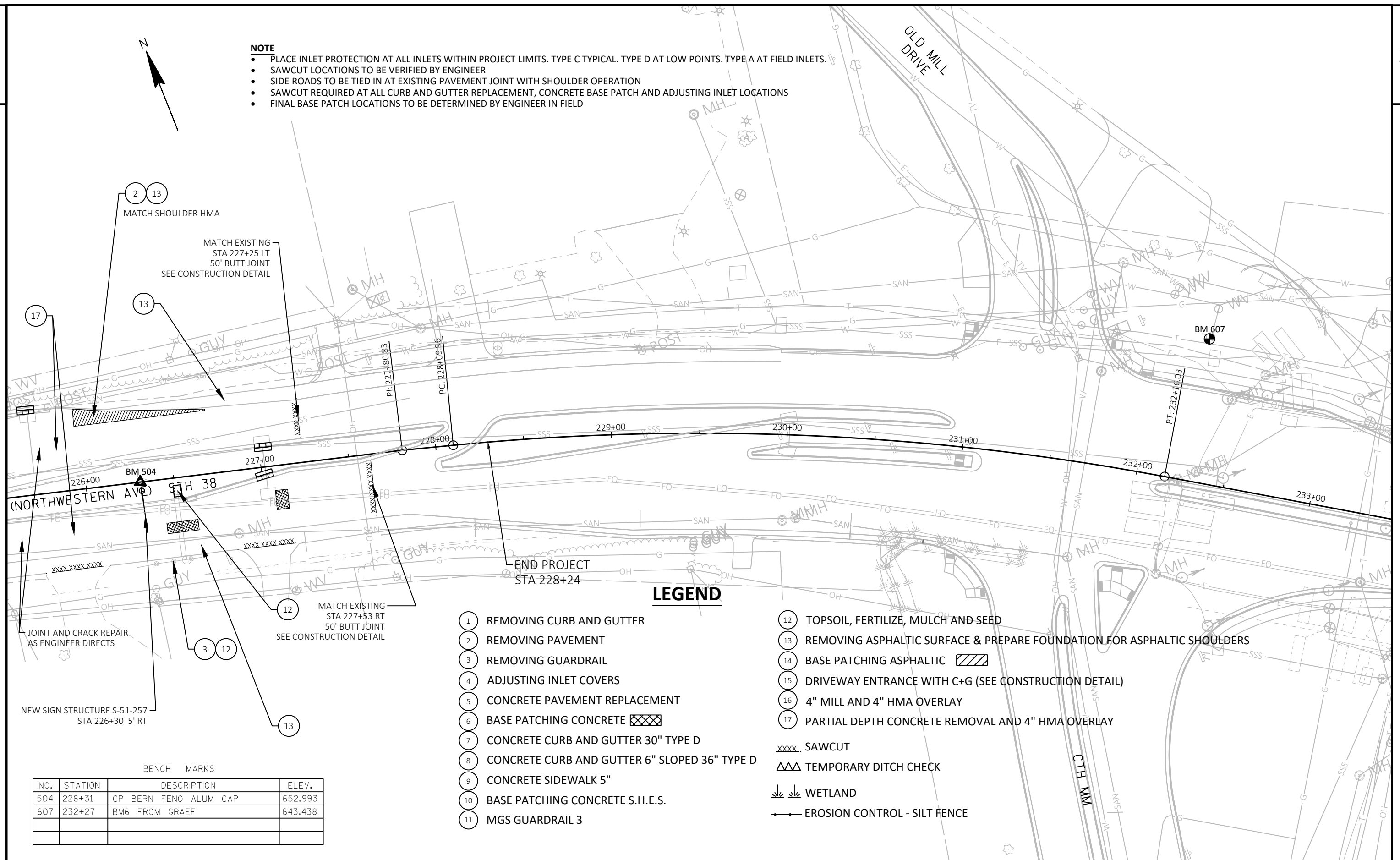
PRE_37

E



NOTE

- PLACE INLET PROTECTION AT ALL INLETS WITHIN PROJECT LIMITS. TYPE C TYPICAL. TYPE D AT LOW POINTS. TYPE A AT FIELD INLETS.
- SAWCUT LOCATIONS TO BE VERIFIED BY ENGINEER
- SIDE ROADS TO BE TIED IN AT EXISTING PAVEMENT JOINT WITH SHOULDER OPERATION
- SAWCUT REQUIRED AT ALL CURB AND GUTTER REPLACEMENT, CONCRETE BASE PATCH AND ADJUSTING INLET LOCATIONS
- FINAL BASE PATCH LOCATIONS TO BE DETERMINED BY ENGINEER IN FIELD



PROJECT NO: 2290-22-70

HWY: STH 38

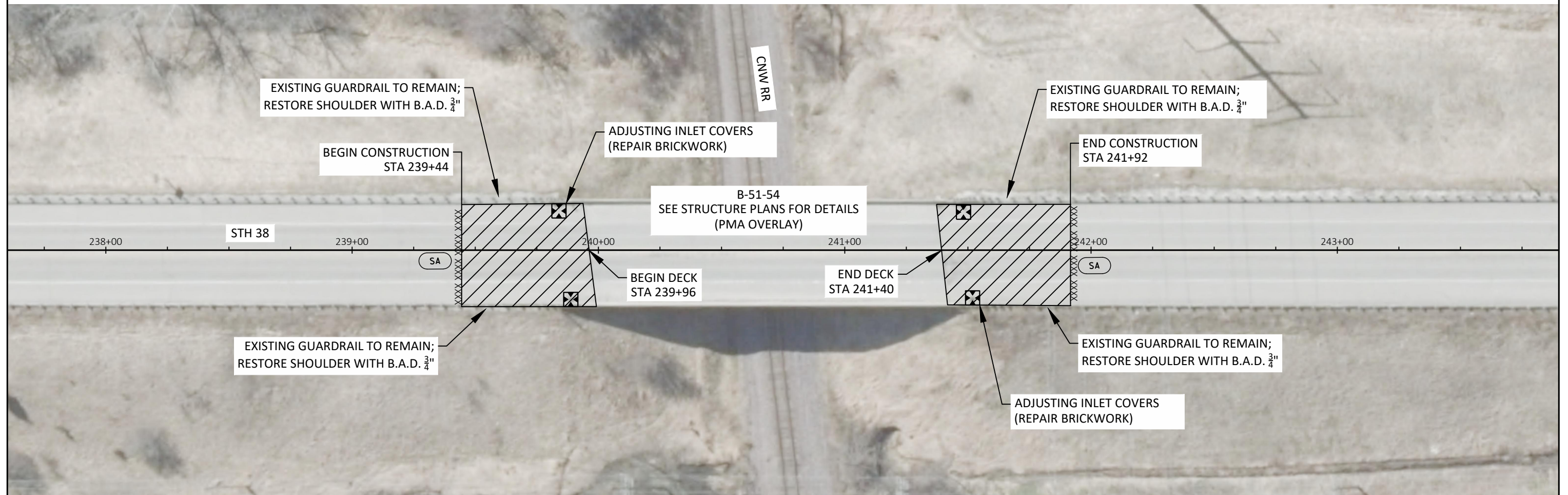
COUNTY: RACINE

PLAN DETAIL

SHEET

PRE_39

E



LEGEND

- SAWING ASPHALT
- SAW CUT LINE
- REMOVING ASPHALTIC SURFACE BUTT JOINTS AND REPLACE WITH HMA PAVEMENT
- INLET PROTECTION TYPE B

INLET PROTECTION LOCATIONS

- STA 239+84, 16.6' LT
- STA 239+89, 20.2' RT
- STA 241+49, 15.9' LT
- STA 241+52, 20.0' RT

ADJUSTING INLET COVERS LOCATIONS

- STA 239+84, 16.6' LT
- STA 241+52, 20.0' RT

- NOTES:
- 1. SEE CONSTRUCTION DETAILS FOR PAVEMENT THICKNESS.
 - 2. SAW CUT LOCATIONS ARE APPROXIMATE AND SHALL BE CONFIRMED BY THE FIELD ENGINEER.
 - 3. STATIONING/ALIGNMENT SHOWN FOR REFERENCE ONLY. CONSTRUCTION TO OCCUR RELATIVE TO EXISTING BRIDGE LOCATION.

PROJECT NO: 2290-22-70

HWY: STH 38

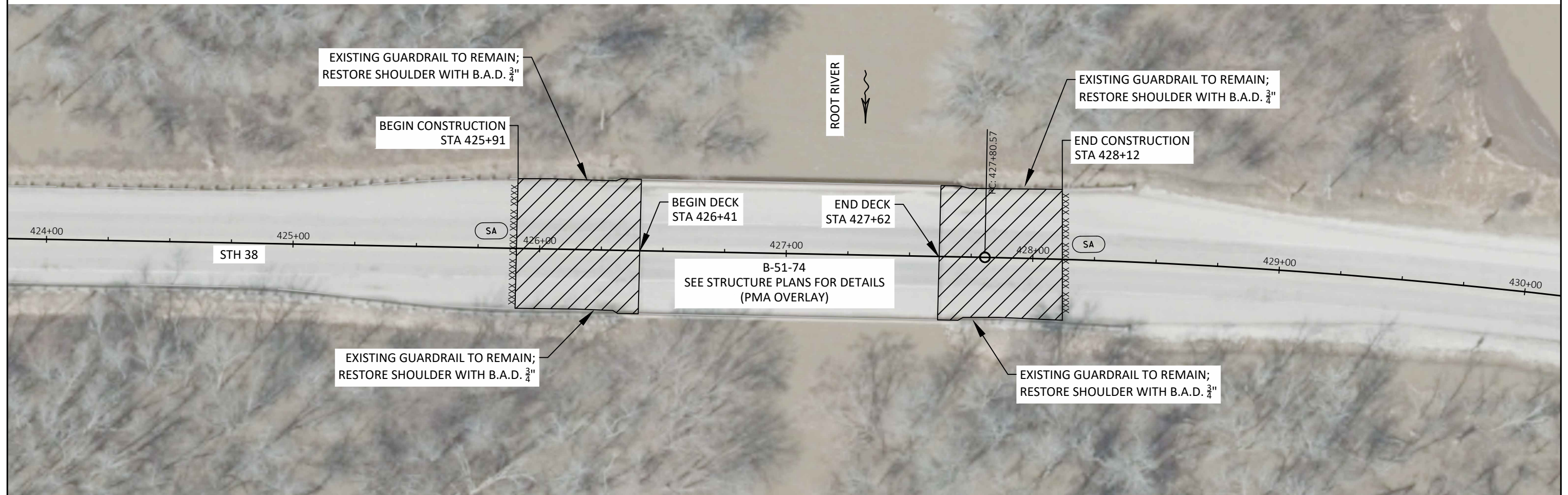
COUNTY: RACINE

PLAN DETAILS : B-51-54 (STH 38 OVER CNW RR)

SHEET

PRE_40

E

**LEGEND**

- (SA) SAWING ASPHALT
XXXX XXXX SAW CUT LINE
REMOVING ASPHALTIC SURFACE BUTT JOINTS
AND REPLACE WITH HMA PAVEMENT

NOTES:

1. SEE CONSTRUCTION DETAILS FOR PAVEMENT THICKNESS.
2. SAW CUT LOCATIONS ARE APPROXIMATE AND SHALL BE CONFIRMED BY THE FIELD ENGINEER.
3. STATIONING/ALIGNMENT SHOWN FOR REFERENCE ONLY. CONSTRUCTION TO OCCUR RELATIVE TO EXISTING BRIDGE LOCATION.

PROJECT NO: 2290-22-70

HWY: STH 38

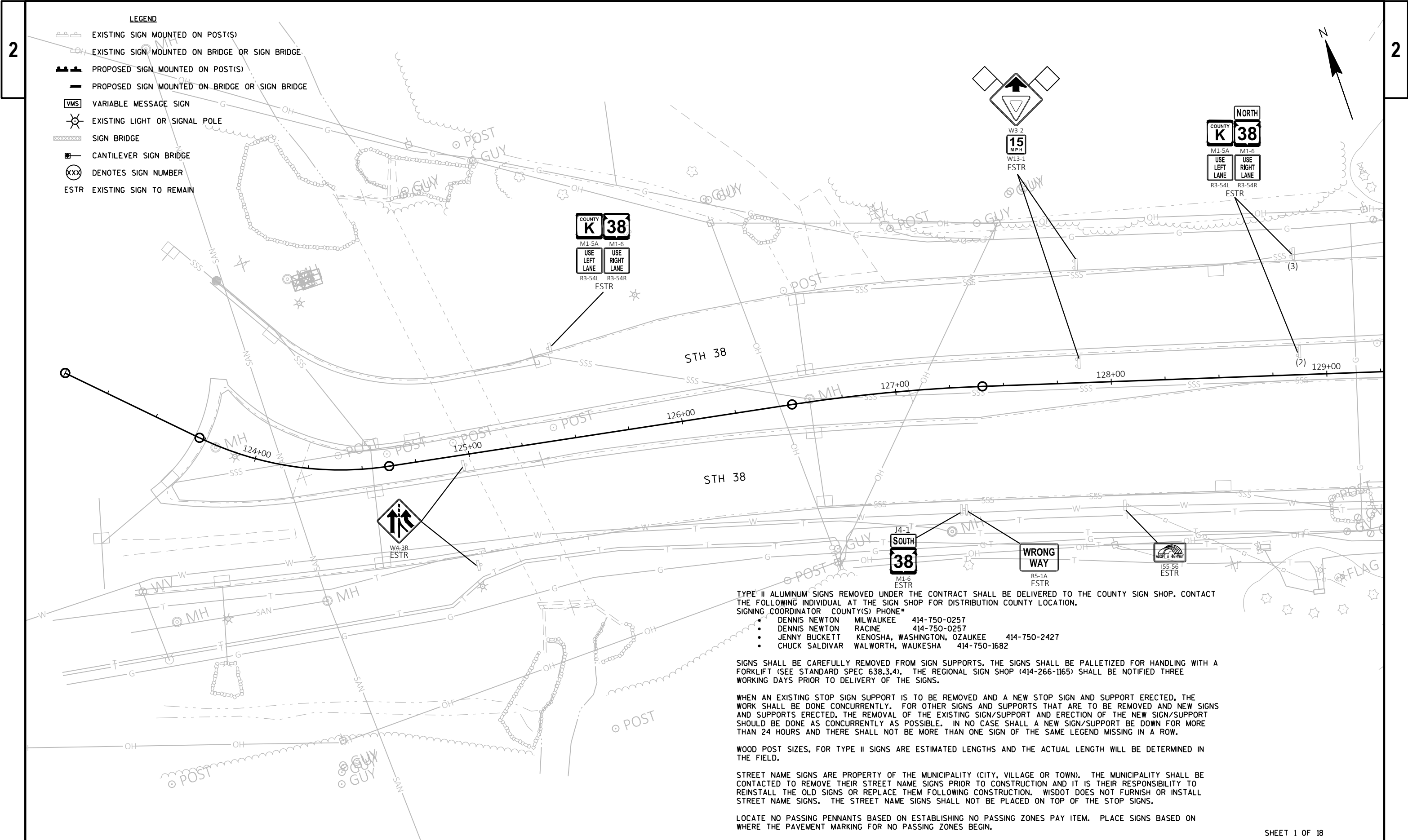
COUNTY: RACINE

PLAN DETAILS | B-51-74 (STH 38 OVER ROOT RIVER)

SHEET

PRE_41

E



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

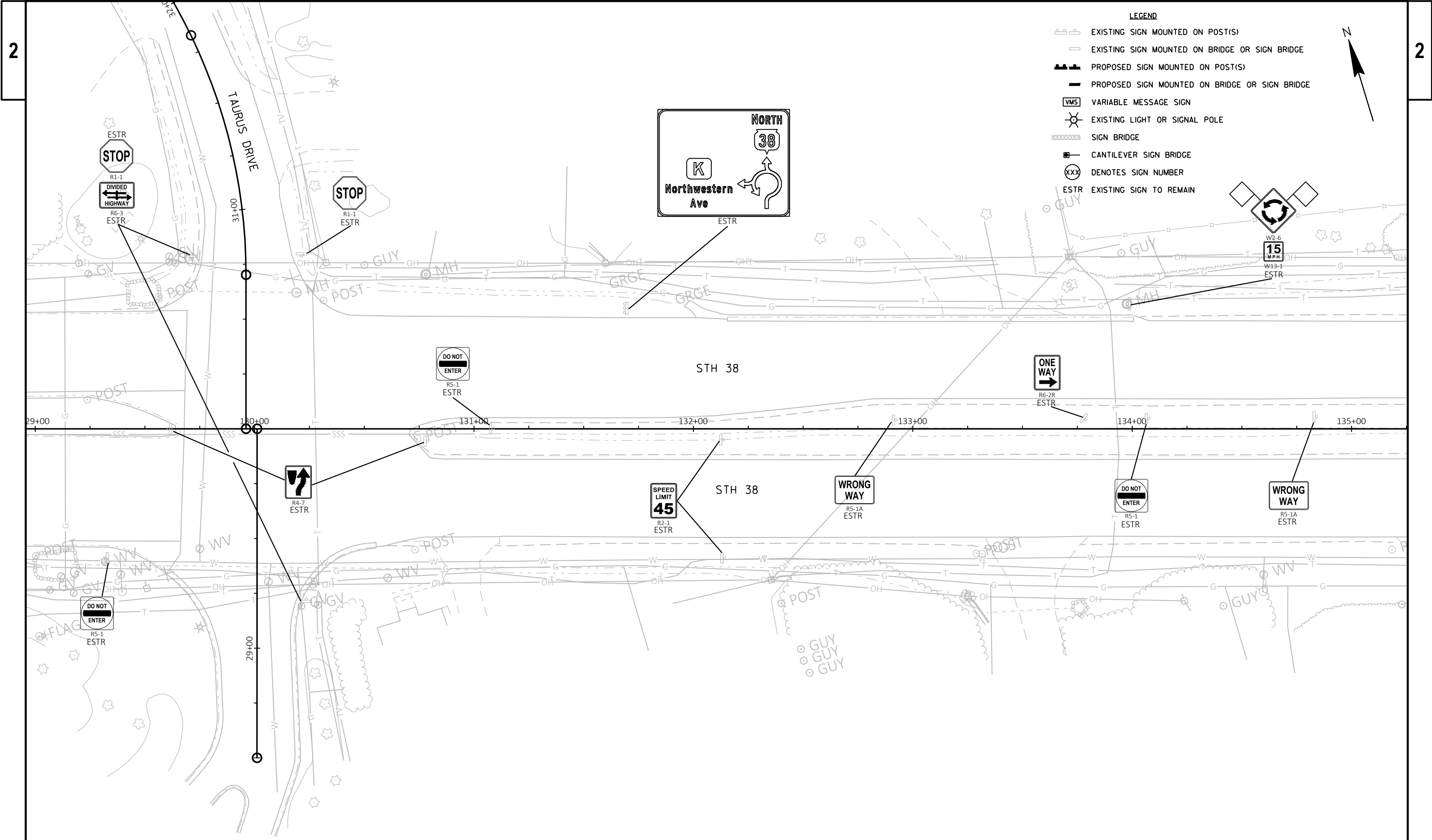
SIGNS SHALL BE CAREFULLY REMOVED FROM SIGN SUPPORTS. THE SIGNS SHALL BE PALLETIZED FOR HANDLING WITH A FORKLIFT (SEE STANDARD SPEC 638.3.4). THE REGIONAL SIGN SHOP (414-266-1165) SHALL BE NOTIFIED THREE WORKING DAYS PRIOR TO DELIVERY OF THE SIGNS.

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.

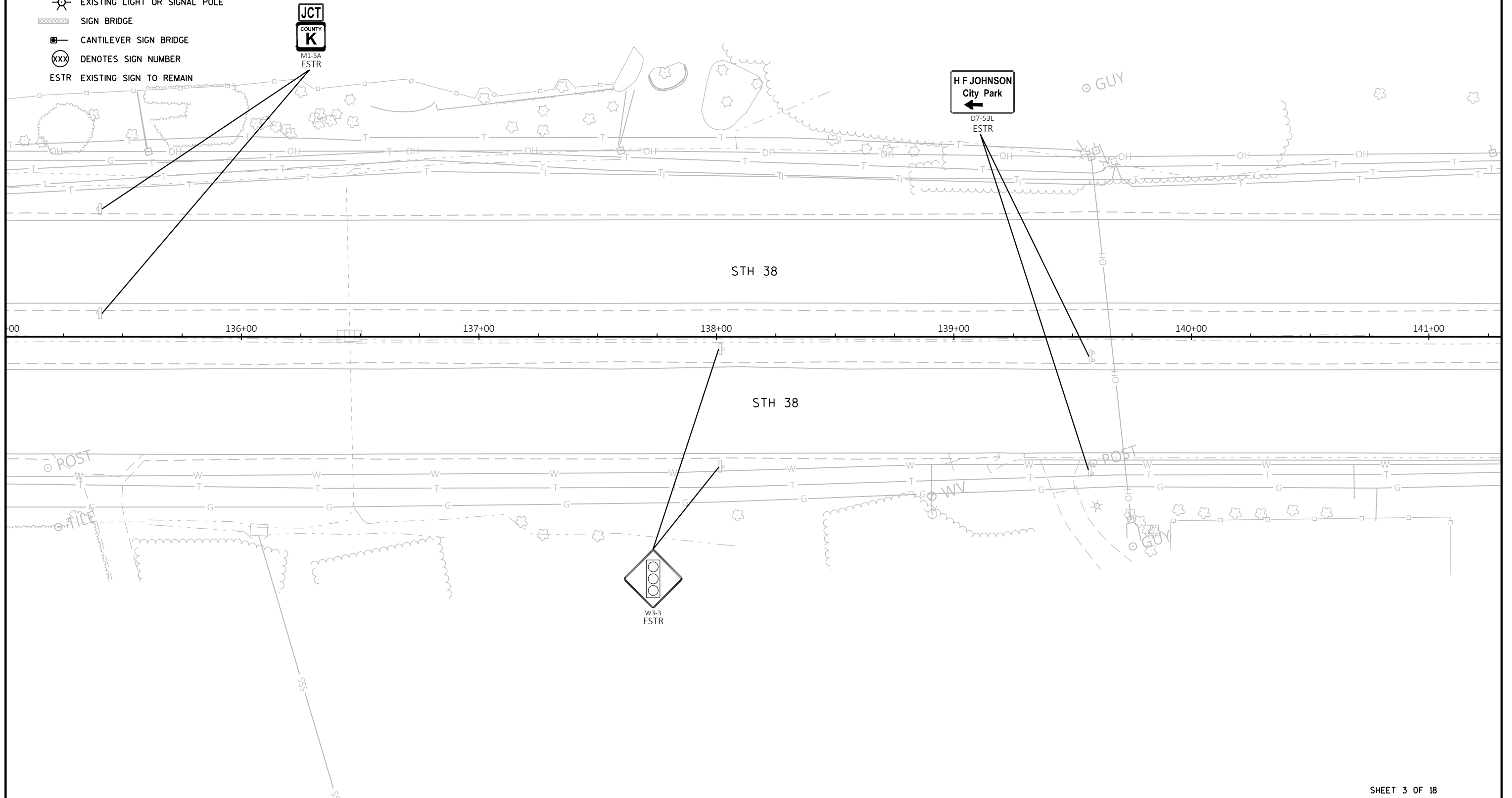
STREET NAME SIGNS ARE PROPERTY OF THE MUNICIPALITY (CITY, VILLAGE OR TOWN). THE MUNICIPALITY SHALL BE CONTACTED TO REMOVE THEIR STREET NAME SIGNS PRIOR TO CONSTRUCTION AND IT IS THEIR RESPONSIBILITY TO REINSTALL THE OLD SIGNS OR REPLACE THEM FOLLOWING CONSTRUCTION. WISDOT DOES NOT FURNISH OR INSTALL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



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





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

ALTERNATE
MB4-1

ALTERNATE
MB4-1

NORTH

WEST

MB3-1
INTERSTATE

MB3-4
INTERSTATE

41

94

M1-1

M1-1

↑

↑

MB6-1

MB6-1

J3-2

ESTR

EMMERTSEN RD
NEXT SIGNAL

D1-65
ESTR

HF JOHNSON
City Park
→

D7-53R
ESTR

WRONG
WAY

R5-1A
ESTR

SPEED
LIMIT
45

R2-1
ESTR

BEGIN
LEFT
TURN
LANE
↓

R3-20L
ESTR

SOUTH

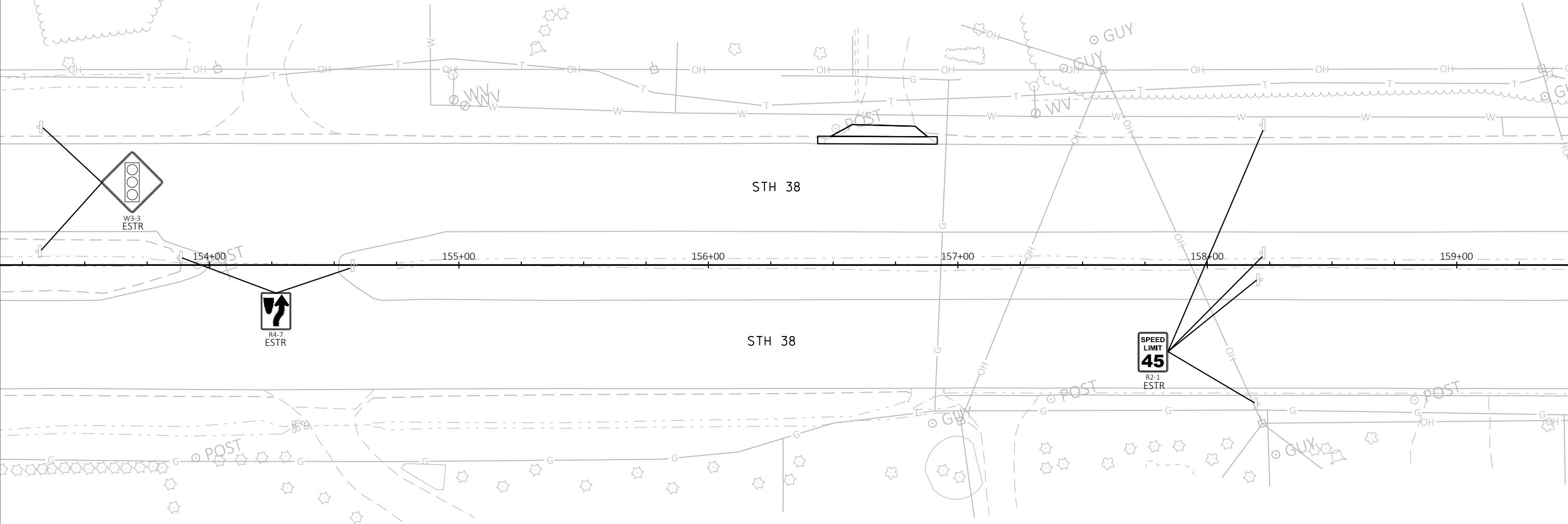
M3-3

38

M1-6
ESTR

LEGEND

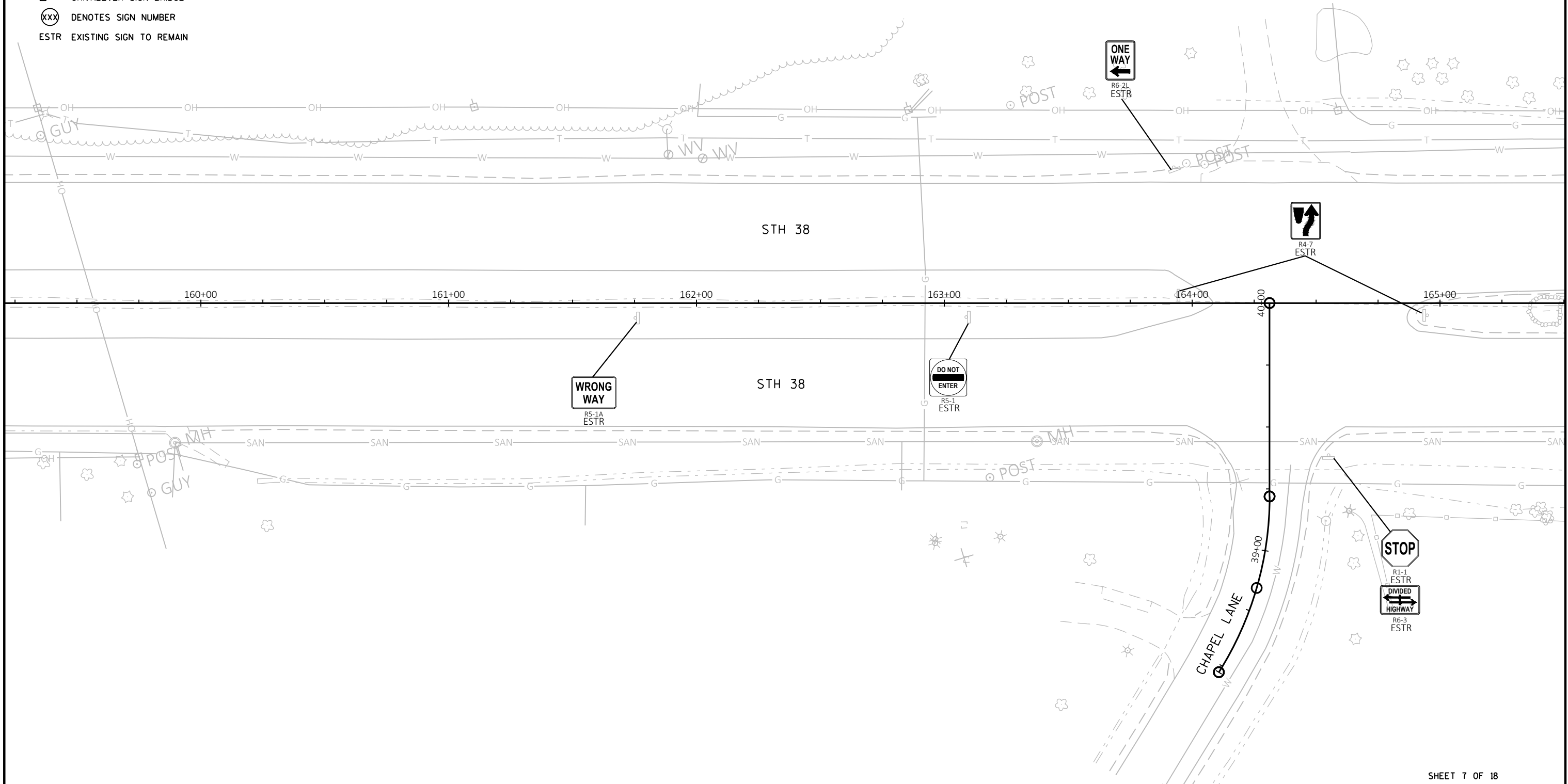
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- EXISTING SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- PROPOSED SIGN MOUNTED ON POST(S)
- PROPOSED SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- VARIABLE MESSAGE SIGN
- EXISTING LIGHT OR SIGNAL POLE
- SIGN BRIDGE
- CANTILEVER SIGN BRIDGE
- DENOTES SIGN NUMBER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





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



SHEET 7 OF 18

PROJECT NO: 2290-22-70

HWY: STH 38

COUNTY: RACINE

PERMANENT SIGNING

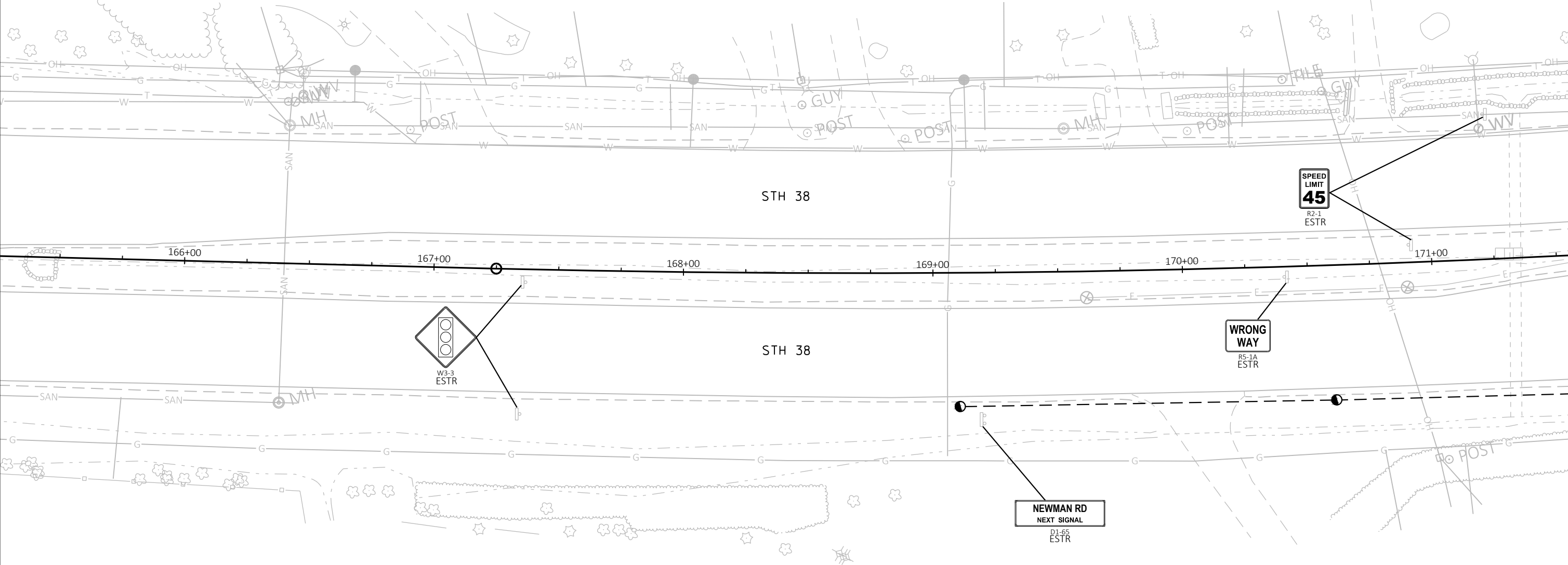
SHEET

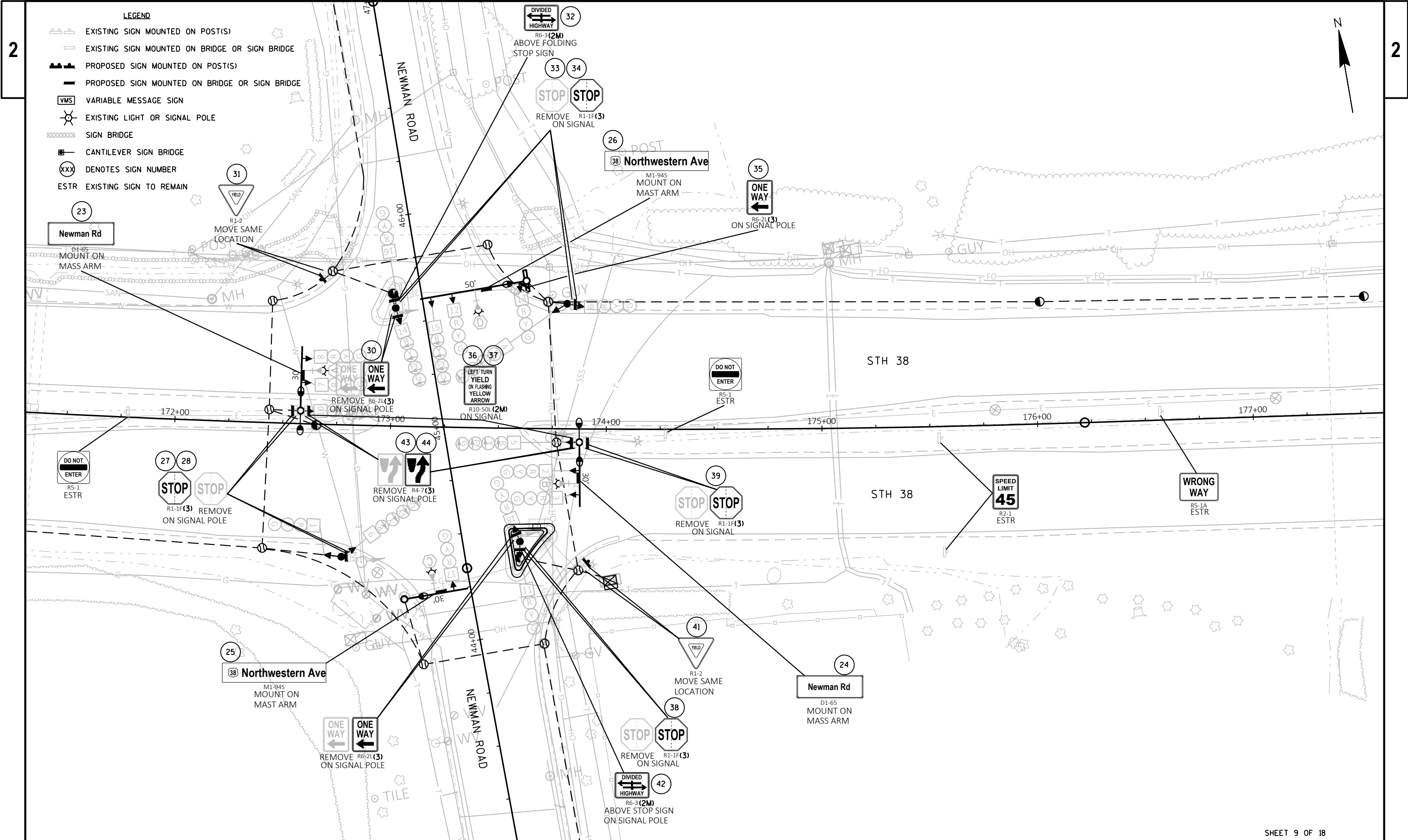
PRE_48

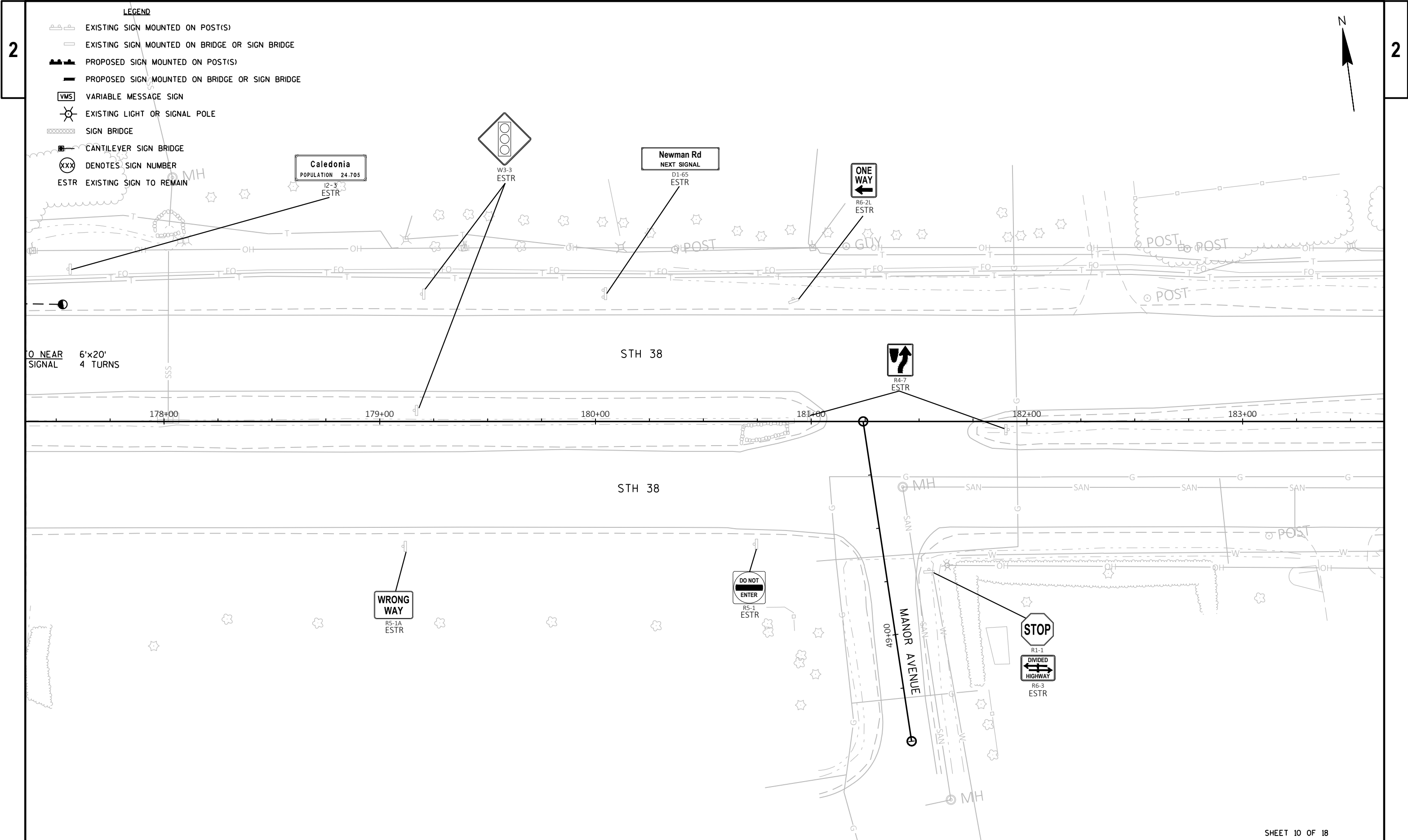
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LEGEND

- 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



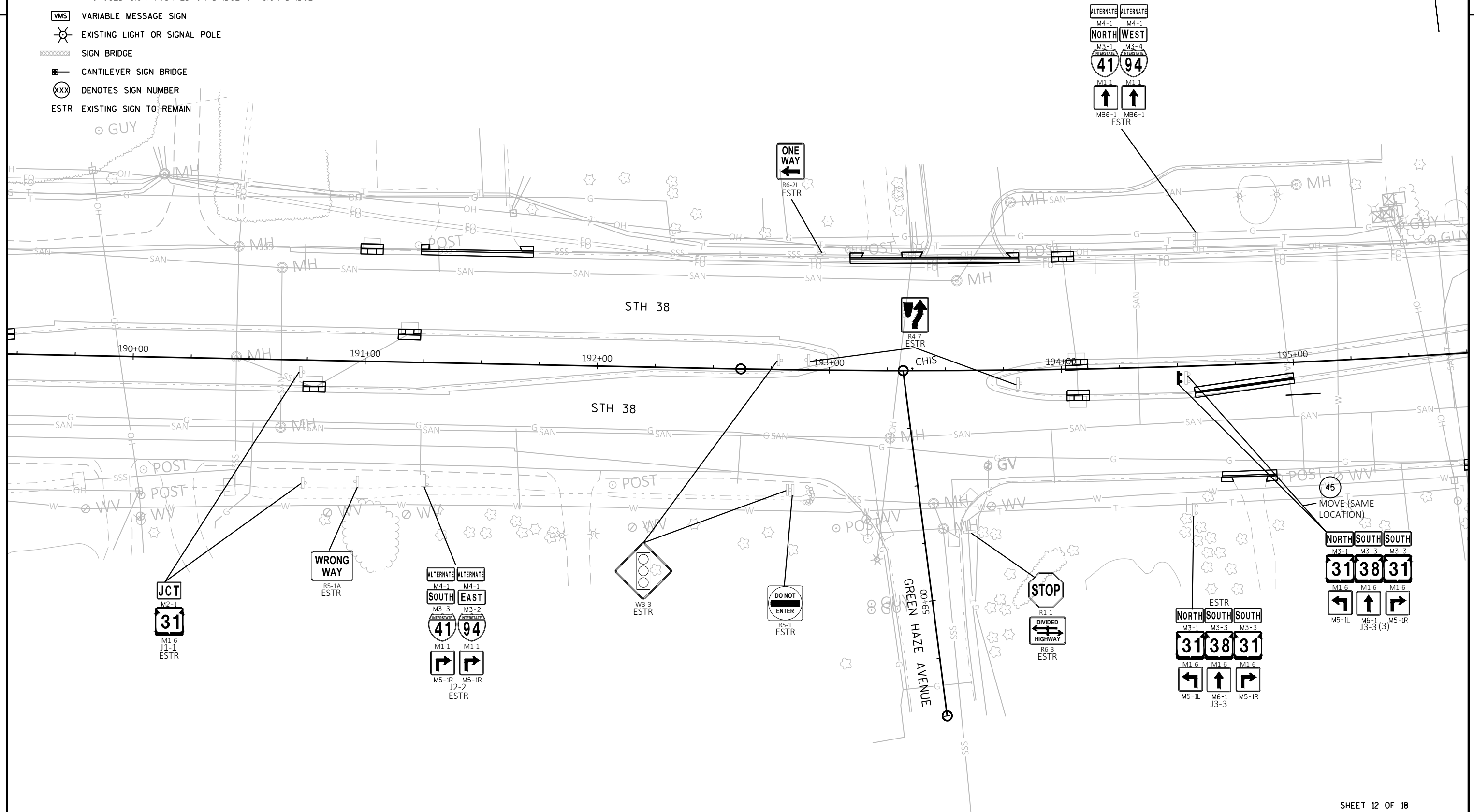






LEGEND

- 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



SHEET 12 OF 18

PROJECT NO: 2290-22-70

HWY: STH 38

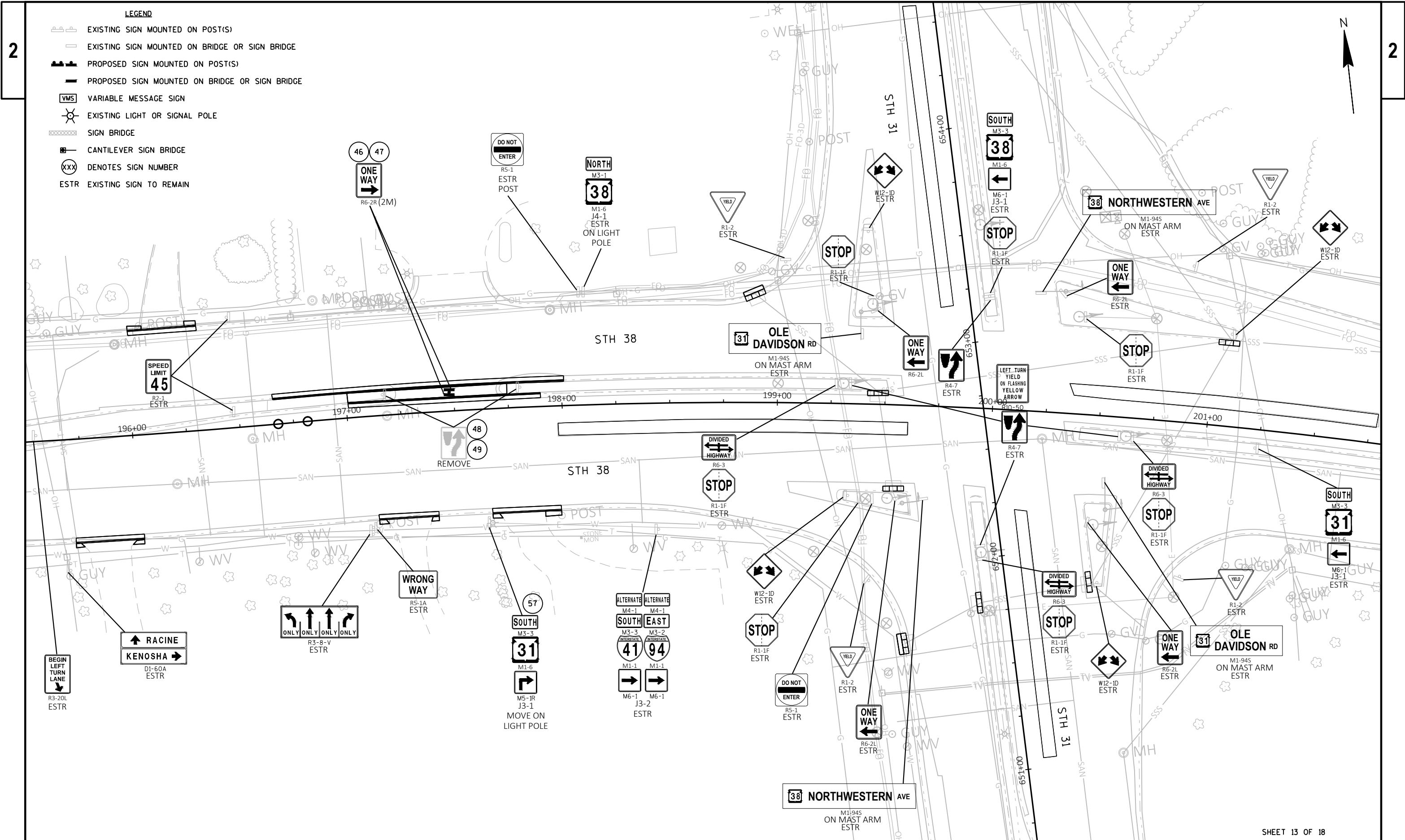
COUNTY: RACINE

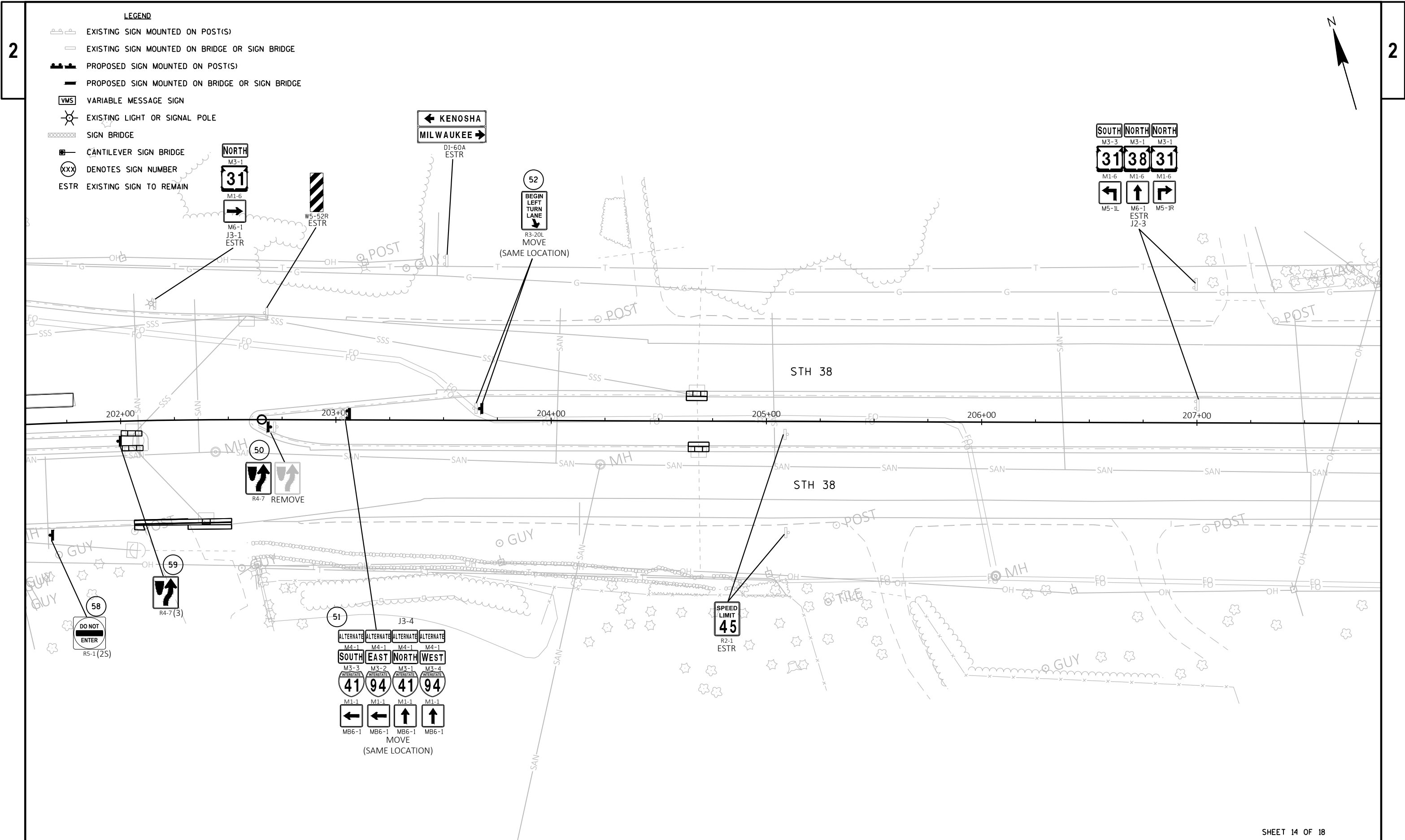
PERMANENT SIGNING

SHEET

PRE_53

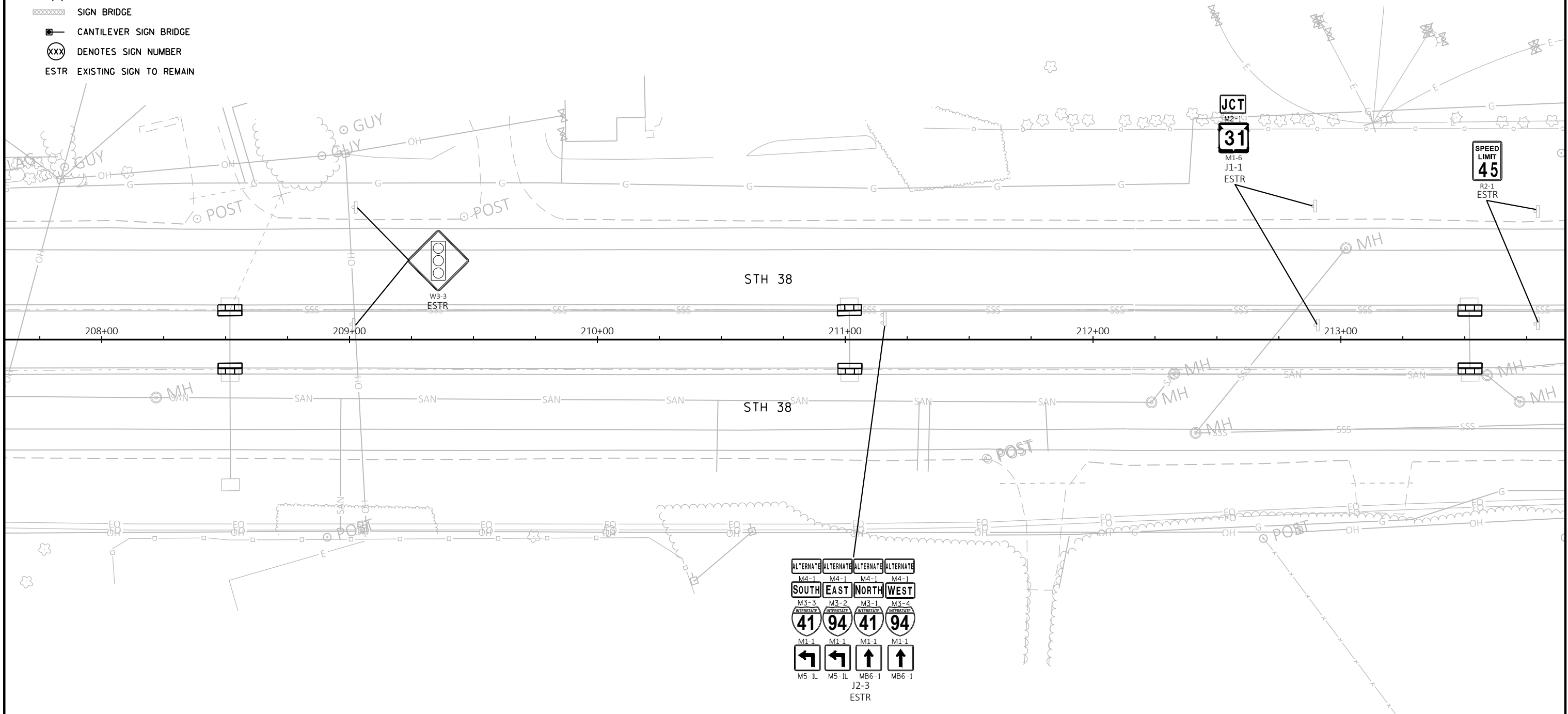
E



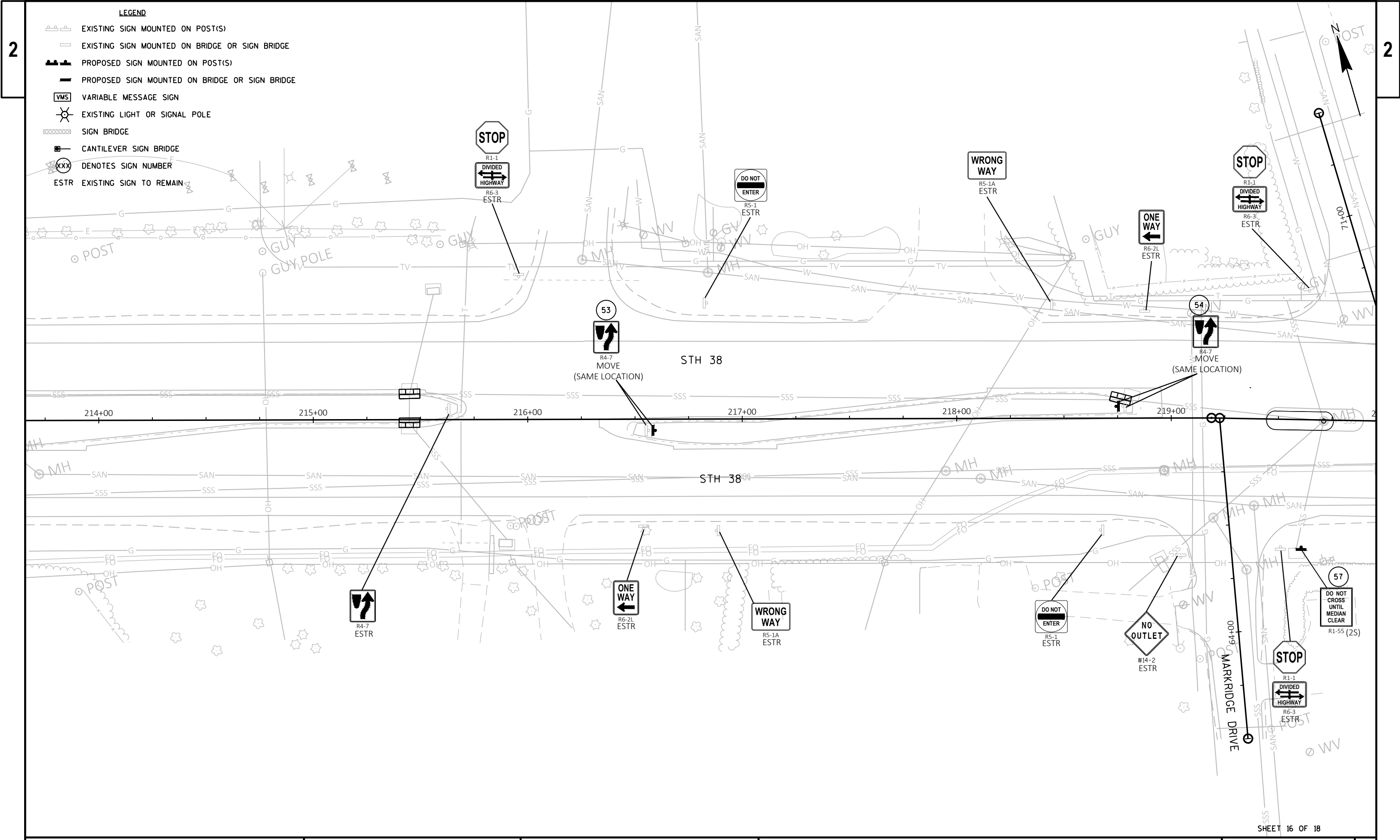


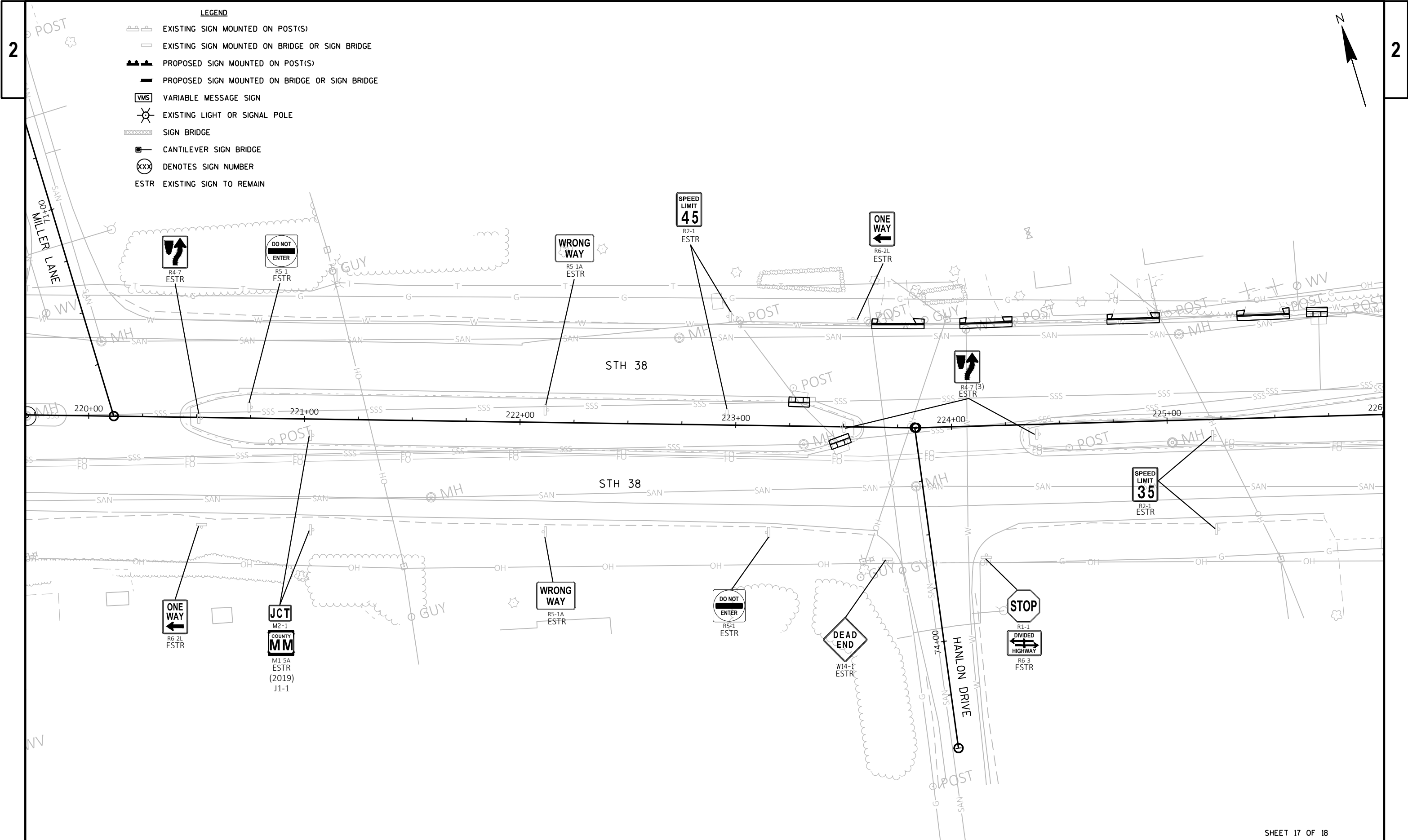
LEGEND

- 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



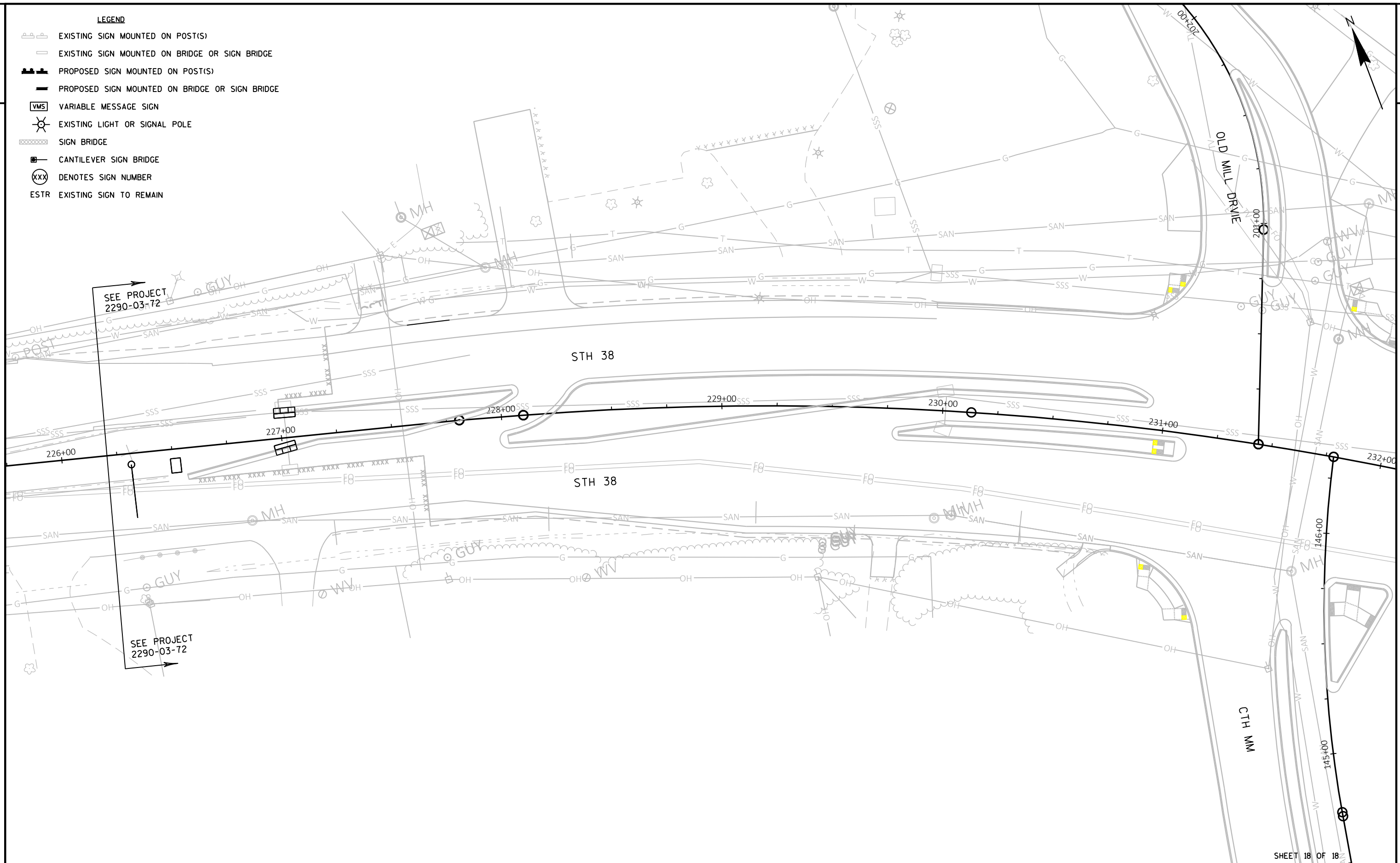
ALTERNATE	ALTERNATE	ALTERNATE	ALTERNATE
M4-1	M4-1	M4-1	M4-1
SOUTH	EAST	NORTH	WEST
M3-3	M3-2	M3-1	M3-4
41	94	41	94
M1-1	M1-1	M1-1	M1-1
←	←	↑	↑
M5-1L	M5-1L	MB6-1	MB6-1
J2-3 ESTR			





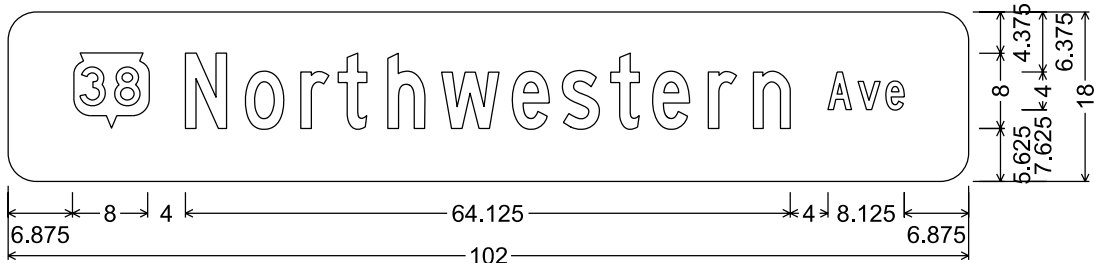
LEGEND

- 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



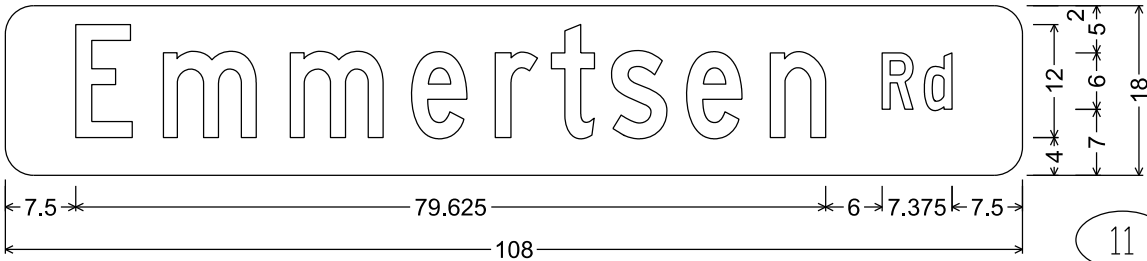
NOTES

- 1. All Signs Type II - Type H Reflective
- 2. Color:
Background - Green
Message - White
- 3. Message Series - C



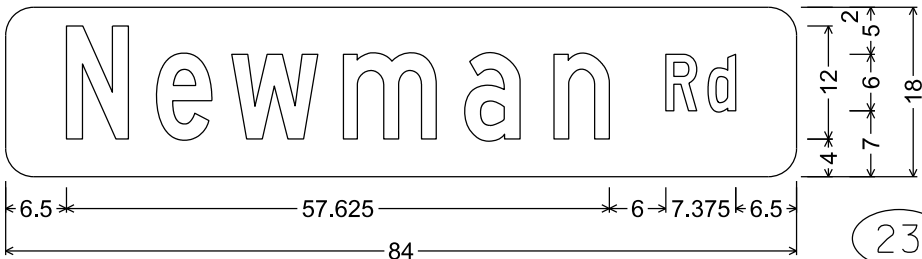
M1-94S; 3.000" Radius, No border

1 25
15 26



M1-94H; 3.000" Radius, No border

11 22



M1-94H; 3.000" Radius, No border

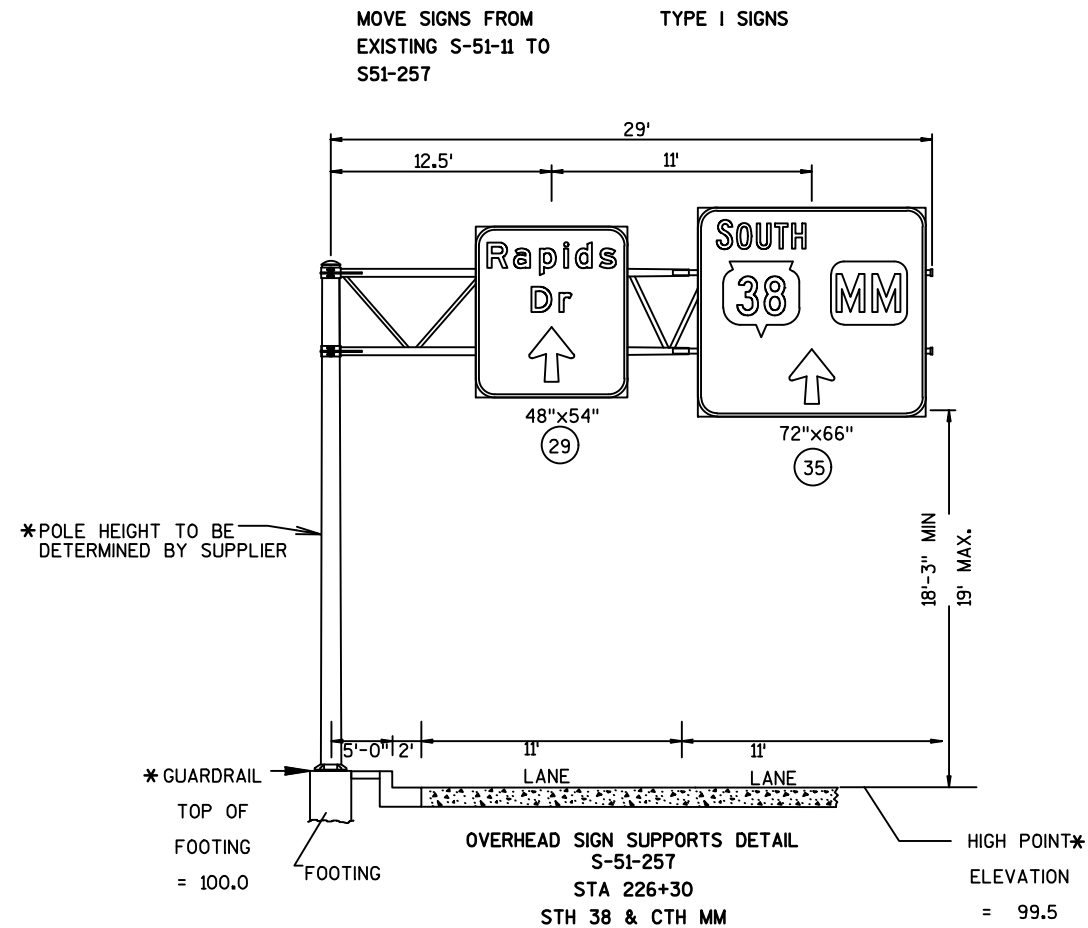
23 24

GENERAL NOTES

1. DRAWINGS NOT TO SCALE.
2. DESIGN ACCORDING TO AASHTO "STANDARD SPECIFICATIONS FOR STRUCTURAL SUPPORTS FOR HIGHWAY SIGNS, LUMINAIRES AND TRAFFIC SIGNALS", 6TH EDITION & INTERIM REVISIONS FATIGUE CATEGORY 1 CANTILEVERS.
3. THE SIGN STRUCTURES SHALL BE DESIGNED TO SUPPORT THE SIGNS SHOWN.
4. WIND VELOCITY PER WISDOT STD SPECIFICATIONS.
5. BAR STEEL REINFORCEMENT SHALL BE EMBEDDED 3" CLEAR UNLESS DETAILED OTHERWISE.

NOTE, CONTRACTOR SHALL:

1. SUBMIT SHOP DRAWINGS OF OVERHEAD SIGN SUPPORT. FOOTING IS INCIDENTAL TO OVERHEAD SIGN SUPPORT.
2. PROVIDE DESIGN CALCULATIONS.
3. SHOW SIGNS ON SHOP DRAWINGS.
4. I.D. PLAQUE INCIDENTAL TO OVERHEAD SIGN SUPPORT PER STANDARD SPEC 641.3.1.4.
5. 6 ANCHOR RODS MINIMUM PER STANDARD DETAIL DRAWING. DESIGN STRUCTURE BASE PLATE CONNECTION TO ACCOMODATE.
6. REFER TO SIGN PLATE A4-7.4 FOR ATTACHMENT OF SIGNS TO OVERHEAD SIGN SUPPORT
7. INSTALL SIGNS OR SIGN BLANKS ON OVERHEAD SIGN SUPPORTS AT THE TIME OF ERECTION AS SPECIFIED IN STANDARD SPEC 641.3.1.4.



CONTRACTOR TO USE SDD 42" DIAMETER CANTILEVER OVERHEAD SIGN SUPPORT BASE

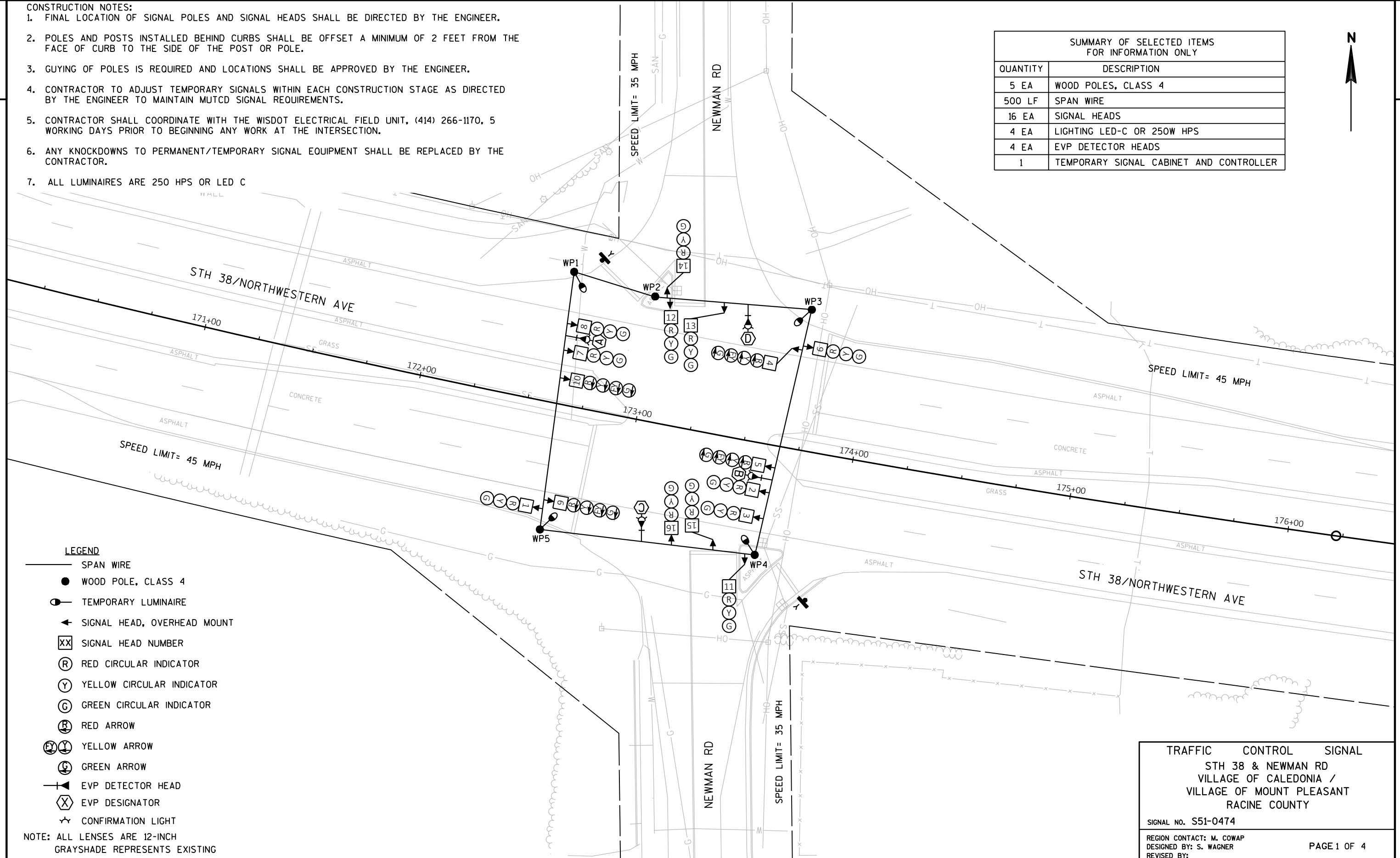
I BEAMS - W5X3.7 I BEAMS FOR MOUNTING SIGNS
ARE INCIDENTAL TO TYPE I II SIGNS

NOTE:
CENTER SIGNS OVER LANES

CONSTRUCTION NOTES:

1. FINAL LOCATION OF SIGNAL POLES AND SIGNAL HEADS SHALL BE DIRECTED BY THE ENGINEER.
2. POLES AND POSTS INSTALLED BEHIND CURBS SHALL BE OFFSET A MINIMUM OF 2 FEET FROM THE FACE OF CURB TO THE SIDE OF THE POST OR POLE.
3. GUYING OF POLES IS REQUIRED AND LOCATIONS SHALL BE APPROVED BY THE ENGINEER.
4. CONTRACTOR TO ADJUST TEMPORARY SIGNALS WITHIN EACH CONSTRUCTION STAGE AS DIRECTED BY THE ENGINEER TO MAINTAIN MUTCD SIGNAL REQUIREMENTS.
5. CONTRACTOR SHALL COORDINATE WITH THE WISDOT ELECTRICAL FIELD UNIT, (414) 266-1170, 5 WORKING DAYS PRIOR TO BEGINNING ANY WORK AT THE INTERSECTION.
6. ANY KNOCKDOWNS TO PERMANENT/TEMPORARY SIGNAL EQUIPMENT SHALL BE REPLACED BY THE CONTRACTOR.
7. ALL LUMINAIRES ARE 250 HPS OR LED C

SUMMARY OF SELECTED ITEMS FOR INFORMATION ONLY	
QUANTITY	DESCRIPTION
5 EA	WOOD POLES, CLASS 4
500 LF	SPAN WIRE
16 EA	SIGNAL HEADS
4 EA	LIGHTING LED-C OR 250W HPS
4 EA	EVP DETECTOR HEADS
1	TEMPORARY SIGNAL CABINET AND CONTROLLER



LEGEND

- SPAN WIRE
- WOOD POLE, CLASS 4
- TEMPORARY LUMINAIRE
- ◀ SIGNAL HEAD, OVERHEAD MOUNT
- XX SIGNAL HEAD NUMBER
- Ⓡ RED CIRCULAR INDICATOR
- Ⓢ YELLOW CIRCULAR INDICATOR
- Ⓤ GREEN CIRCULAR INDICATOR
- Ⓡ RED ARROW
- ⓈⓊ YELLOW ARROW
- Ⓤ GREEN ARROW
- |◀ EVP DETECTOR HEAD
- Ⓢ EVP DESIGNATOR
- ☆ CONFIRMATION LIGHT

NOTE: ALL LENSES ARE 12-INCH
GRAYSHADE REPRESENTS EXISTING

TRAFFIC CONTROL SIGNAL
STH 38 & NEWMAN RD
VILLAGE OF CALEDONIA /
VILLAGE OF MOUNT PLEASANT
RACINE COUNTY

SIGNAL NO. S51-0474

REGION CONTACT: M. COWAP
DESIGNED BY: S. WAGNER
REVISED BY:

PAGE 1 OF 4

PROJECT NO: 2290-22-70

HWY: STH 38

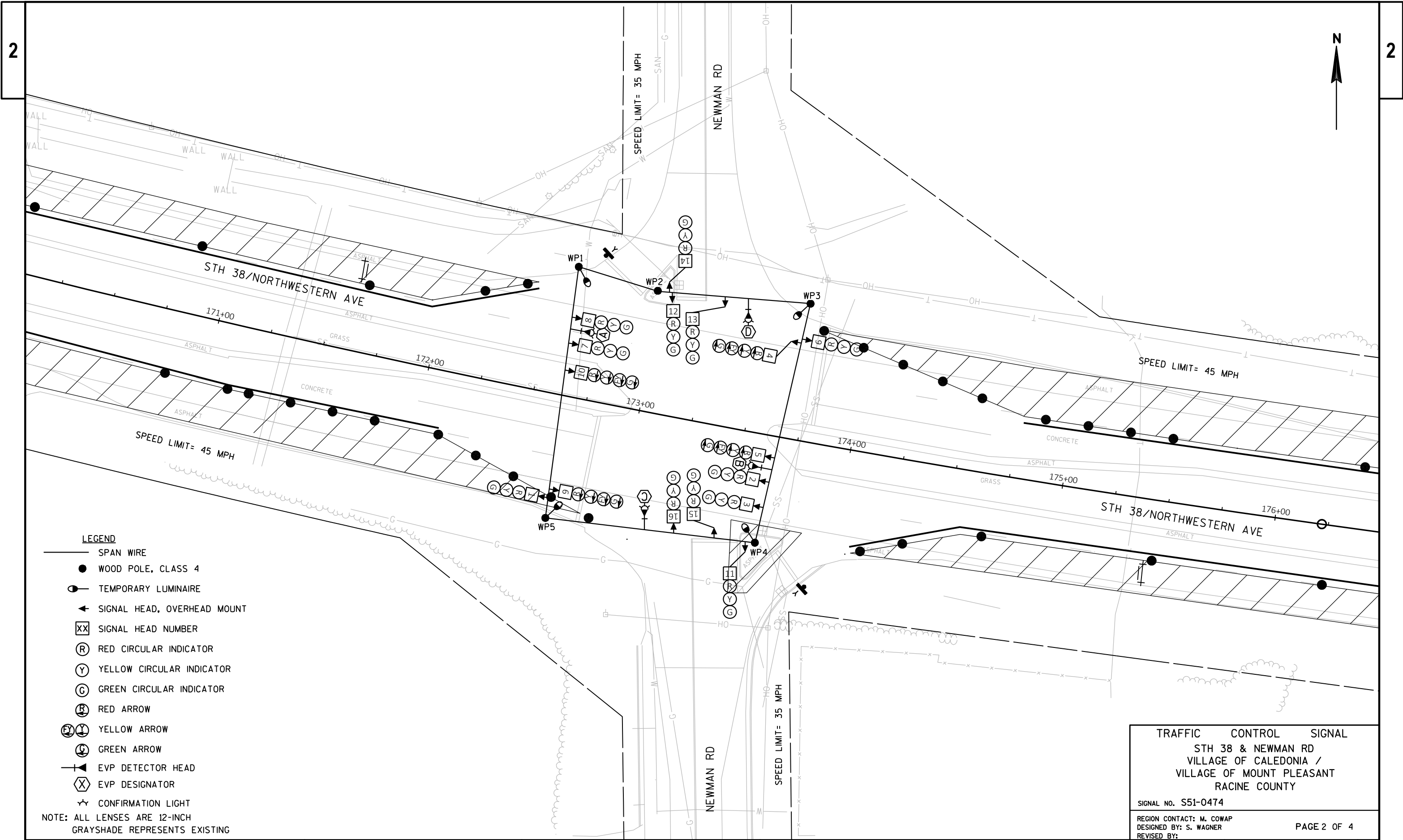
COUNTY: RACINE

TEMPORARY TRAFFIC SIGNAL PLAN - PRECONSTRUCTION STAGE

SHEET

PRE_62

E



LEGEND

- SPAN WIRE
- WOOD POLE, CLASS 4
- TEMPORARY LUMINAIRE
- ◀ SIGNAL HEAD, OVERHEAD MOUNT
- XX SIGNAL HEAD NUMBER
- Ⓡ RED CIRCULAR INDICATOR
- Ⓢ YELLOW CIRCULAR INDICATOR
- Ⓤ GREEN CIRCULAR INDICATOR
- Ⓡ RED ARROW
- ⓈⓊ YELLOW ARROW
- Ⓤ GREEN ARROW
- |▶ EVP DETECTOR HEAD
- Ⓢ EVP DESIGNATOR
- ☆ CONFIRMATION LIGHT

NOTE: ALL LENSES ARE 12-INCH
GRAYSHADE REPRESENTS EXISTING

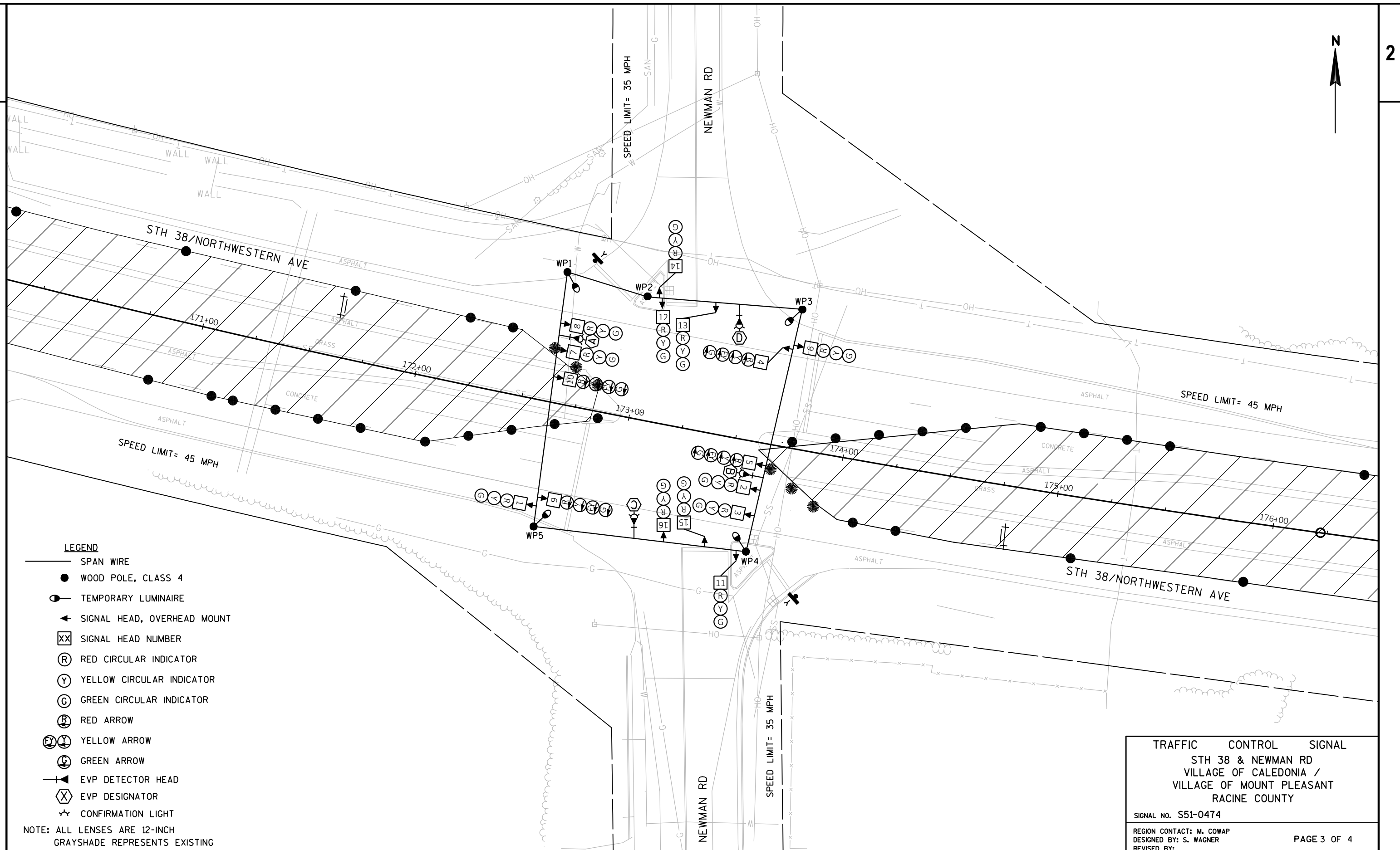
TRAFFIC CONTROL SIGNAL

STH 38 & NEWMAN RD
VILLAGE OF CALEDONIA /
VILLAGE OF MOUNT PLEASANT
RACINE COUNTY

SIGNAL NO. S51-0474

REGION CONTACT: M. COWAP
DESIGNED BY: S. WAGNER
REVISED BY:

PAGE 2 OF 4



PROJECT NO: 2290-22-70

HWY: STH 38

COUNTY: RACINE

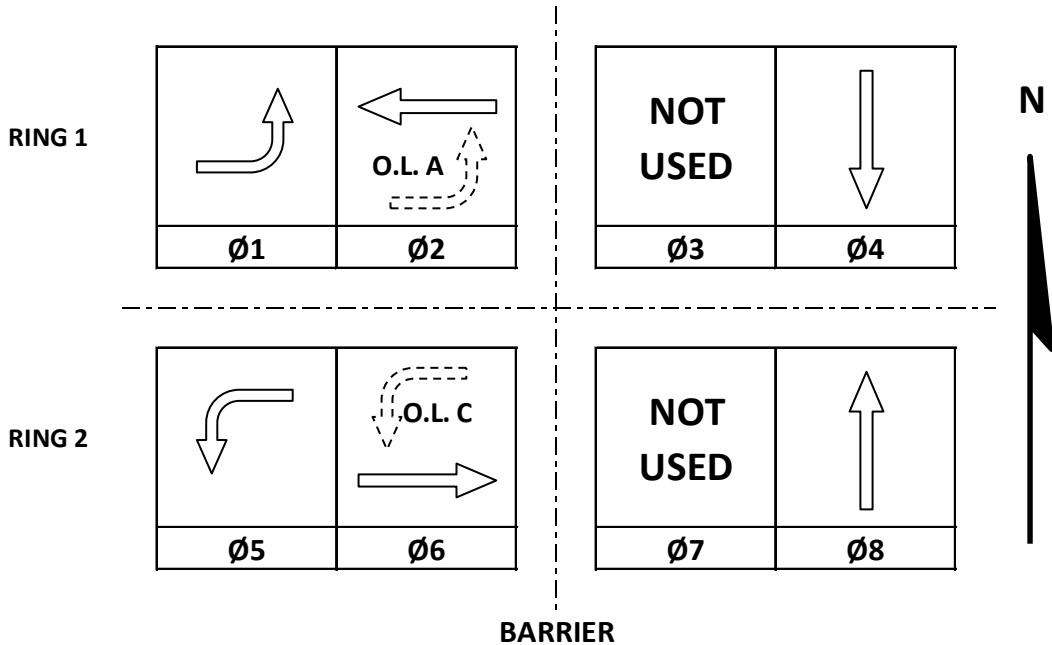
TEMPORARY TRAFFIC SIGNAL PLAN - STAGE 2B

SHEET

PRE_64

E

	HEAD NUMBERS	F L A S H
Ø1	4,5	-
Ø2	6,7,8	R
Ø3		
Ø4	14,15,16	R
Ø5	9,10	-
Ø6	1,2,3	R
Ø7		
Ø8	11,12,13	R
Ø2P		
Ø4P		
Ø6P		
Ø8P		
OLA	4,5	R ←
OLB		
OLC	9,10	R ←
OLD		



CONTROLLER LOGIC

PHASE NUMBER	PHASE LOCKING	DUAL ENTRY W / Ø	PHASE RECALL	PHASE ACTIVE
1		6	MAX	X
2		6	MAX	X
3				
4		8	MAX	X
5		2	MAX	X
6		2	MAX	X
7				
8		4	MAX	X

TYPE OF INTERCONNECT/COMMUNICATION	
NONE	
CLOSED LOOP	
TWISTED PAIR	
FIBER OPTIC*	
FIBER OPTIC (ETHERNET)	
RADIO	
CELL MODEM	X

TYPE OF COORDINATION	
NONE	X
TBC	
TRAFFIC RESPONSIVE	
ADAPTIVE	
*LOCATION OF MASTER CONTROLLER NO:	S-
SIGNAL SYSTEM NO:	SS-

TYPE OF LIGHTING	
BY OTHER AGENCY	
IN TRAFFIC CABINET	X
IN SEPARATE DOT LIGHTING CABINET	

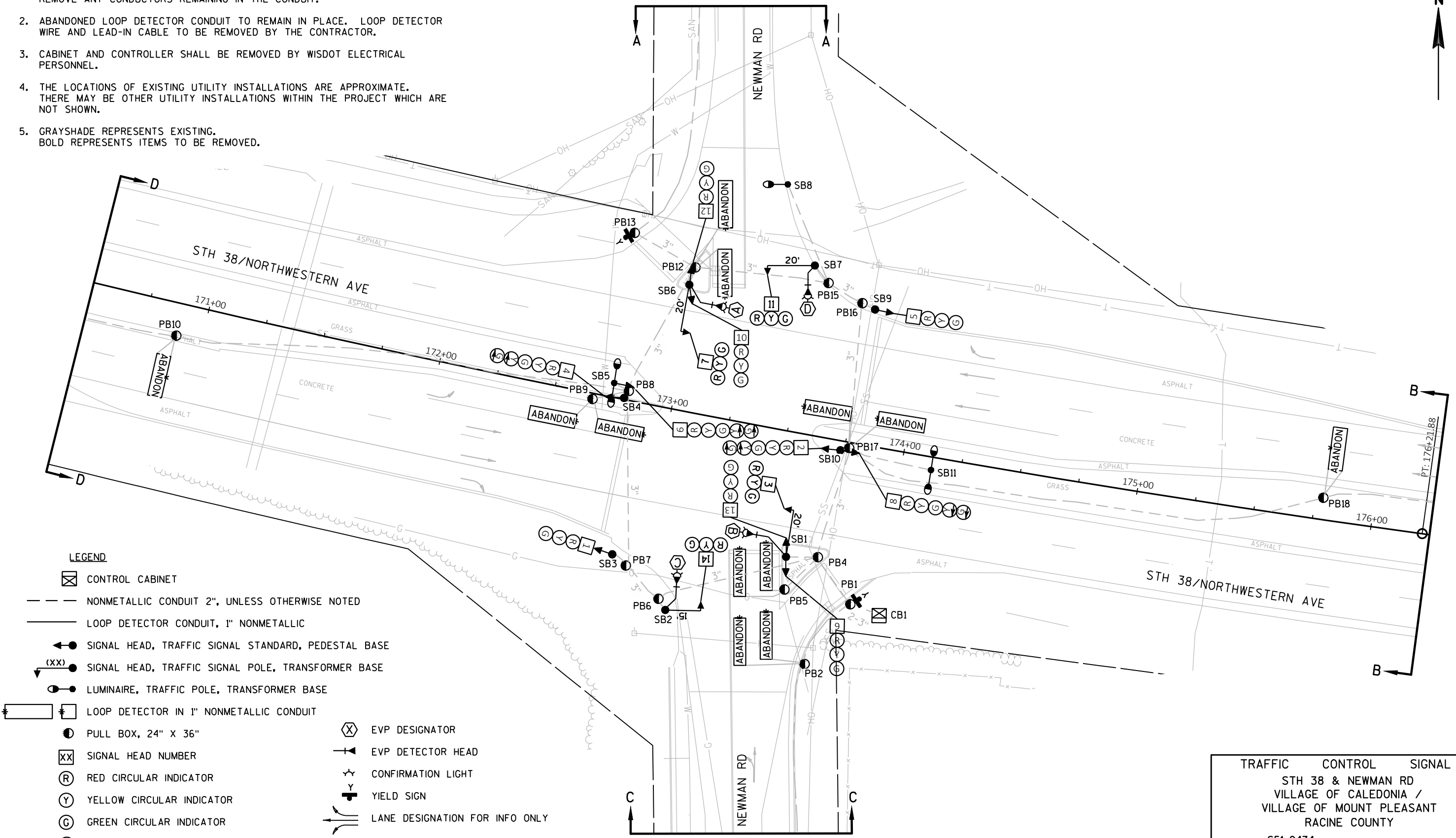
TYPE OF PRE-EMPT	
NONE	
RAILROAD	
EMERGENCY VEHICLE	X
GTT	
TOMAR	
HARDWIRE	
OTHER	
CONFIRMATION LIGHTS	X
LIFT BRIDGE	
QUEUE DETECTION	

EMERGENCY VEHICLE PREEMPTION SEQUENCE				
EMERGENCY VEHICLE PREEMPTOR	A	B	C	D
MOVEMENT				
PHASE	2+5	6+1	4+8	8+4

AFTER PREEMPTION SEQUENCE 2+5 OR 6+1, CONTROLLER SHALL RETURN TO PHASES 2+6.
AFTER PREEMPTION SEQUENCE 4+8 OR 8+4, CONTROLLER SHALL RETURN TO PHASES 4+8.

STH 38 & NEWMAN RD	
VILLAGE OF CALEDONIA/VILLAGE OF MOUNT PLEASANT	
RACINE COUNTY	
SIGNAL NO: S51-0474	CABINET TYPE: TEMP
CONTROLLER TYPE: ECONOLITE	
DATE: MARCH 2020	PAGE NUMBER: 4 OF 4

- CONSTRUCTION NOTES:
- 1. EXISTING CONDUIT RUNS TO BE ABANDONED IN PLACE. CONTRACTOR TO REMOVE ANY CONDUCTORS REMAINING IN THE CONDUIT.
 - 2. ABANDONED LOOP DETECTOR CONDUIT TO REMAIN IN PLACE. LOOP DETECTOR WIRE AND LEAD-IN CABLE TO BE REMOVED BY THE CONTRACTOR.
 - 3. CABINET AND CONTROLLER SHALL BE REMOVED BY WISDOT ELECTRICAL PERSONNEL.
 - 4. THE LOCATIONS OF EXISTING UTILITY INSTALLATIONS ARE APPROXIMATE. THERE MAY BE OTHER UTILITY INSTALLATIONS WITHIN THE PROJECT WHICH ARE NOT SHOWN.
 - 5. GRAYSHADE REPRESENTS EXISTING. BOLD REPRESENTS ITEMS TO BE REMOVED.



- LEGEND**
- CONTROL CABINET
 - NONMETALLIC CONDUIT 2", UNLESS OTHERWISE NOTED
 - LOOP DETECTOR CONDUIT, 1" NONMETALLIC
 - SIGNAL HEAD, TRAFFIC SIGNAL STANDARD, PEDESTAL BASE
 - SIGNAL HEAD, TRAFFIC SIGNAL POLE, TRANSFORMER BASE
 - LUMINAIRE, TRAFFIC POLE, TRANSFORMER BASE
 - LOOP DETECTOR IN 1" NONMETALLIC CONDUIT
 - PULL BOX, 24" X 36"
 - SIGNAL HEAD NUMBER
 - RED CIRCULAR INDICATOR
 - YELLOW CIRCULAR INDICATOR
 - GREEN CIRCULAR INDICATOR
 - YELLOW ARROW
 - GREEN ARROW
 - EVP DESIGNATOR
 - EVP DETECTOR HEAD
 - CONFIRMATION LIGHT
 - YIELD SIGN
 - LANE DESIGNATION FOR INFO ONLY
- NOTE: ALL LENSES ARE 12-INCH
GRAYSHADE REPRESENTS EXISTING

TRAFFIC CONTROL SIGNAL

STH 38 & NEWMAN RD

VILLAGE OF CALEDONIA /

VILLAGE OF MOUNT PLEASANT

RACINE COUNTY

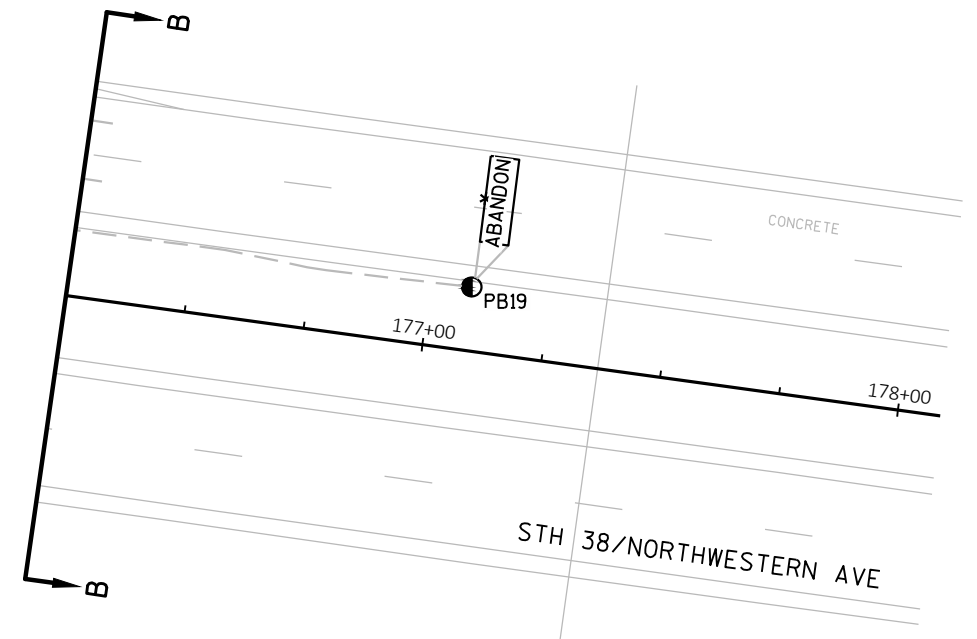
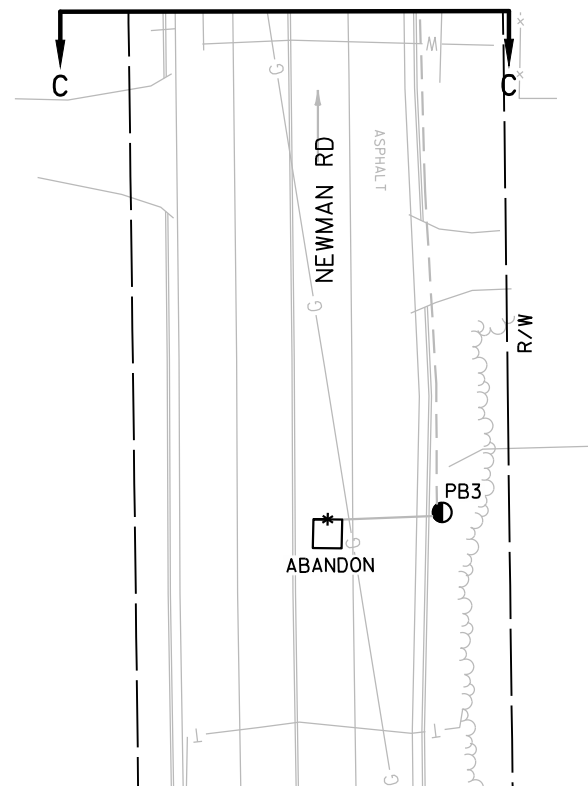
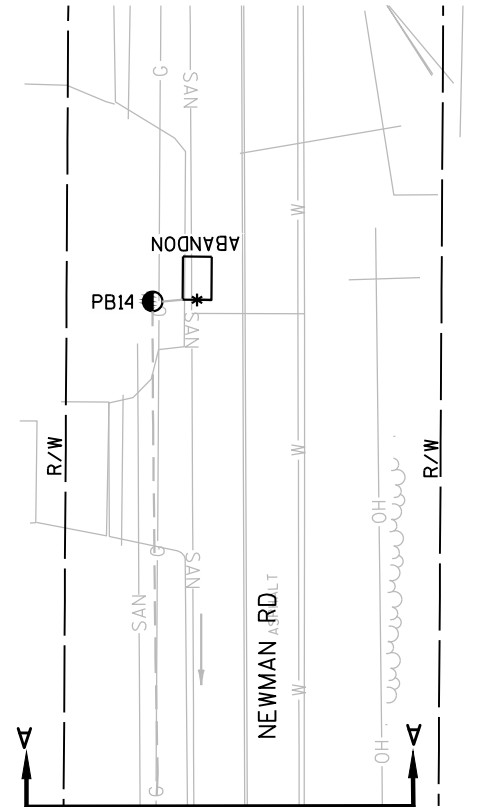
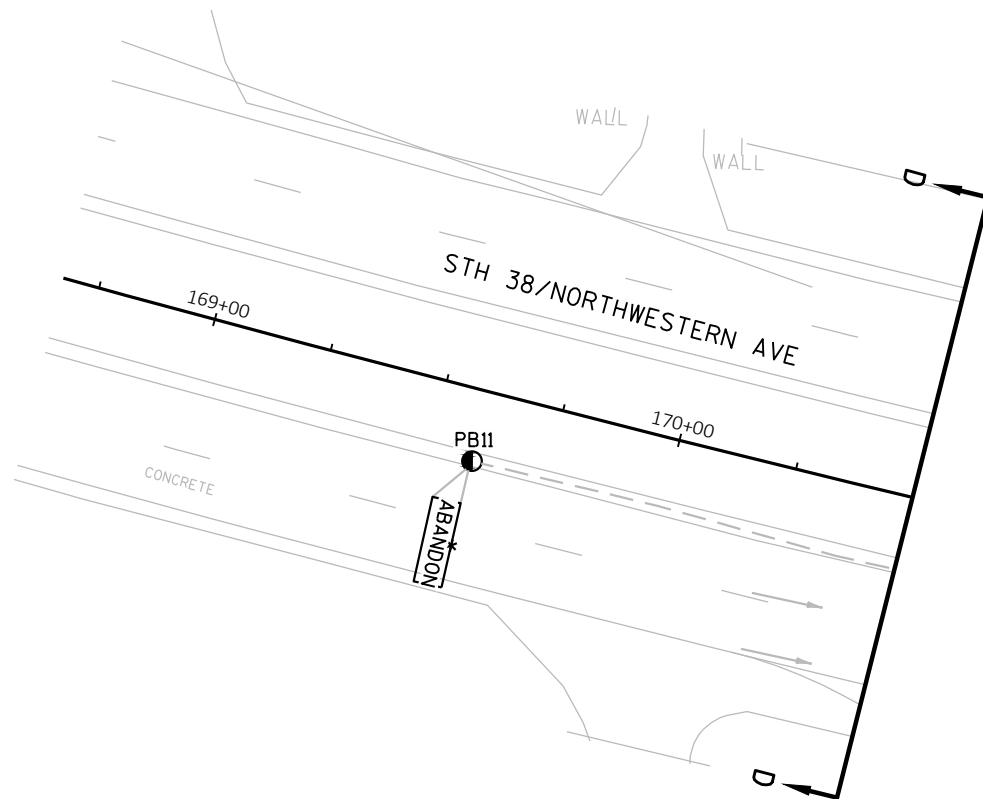
SIGNAL NO. S51-0474

REGION CONTACT: M. COWAP

DESIGNED BY: S. WAGNER

REVISED BY:

PAGE 1 OF 2



PROJECT NO: 2290-22-70

HWY: STH 38

COUNTY: RACINE

TRAFFIC SIGNAL REMOVAL PLAN

SHEET

PRE_67

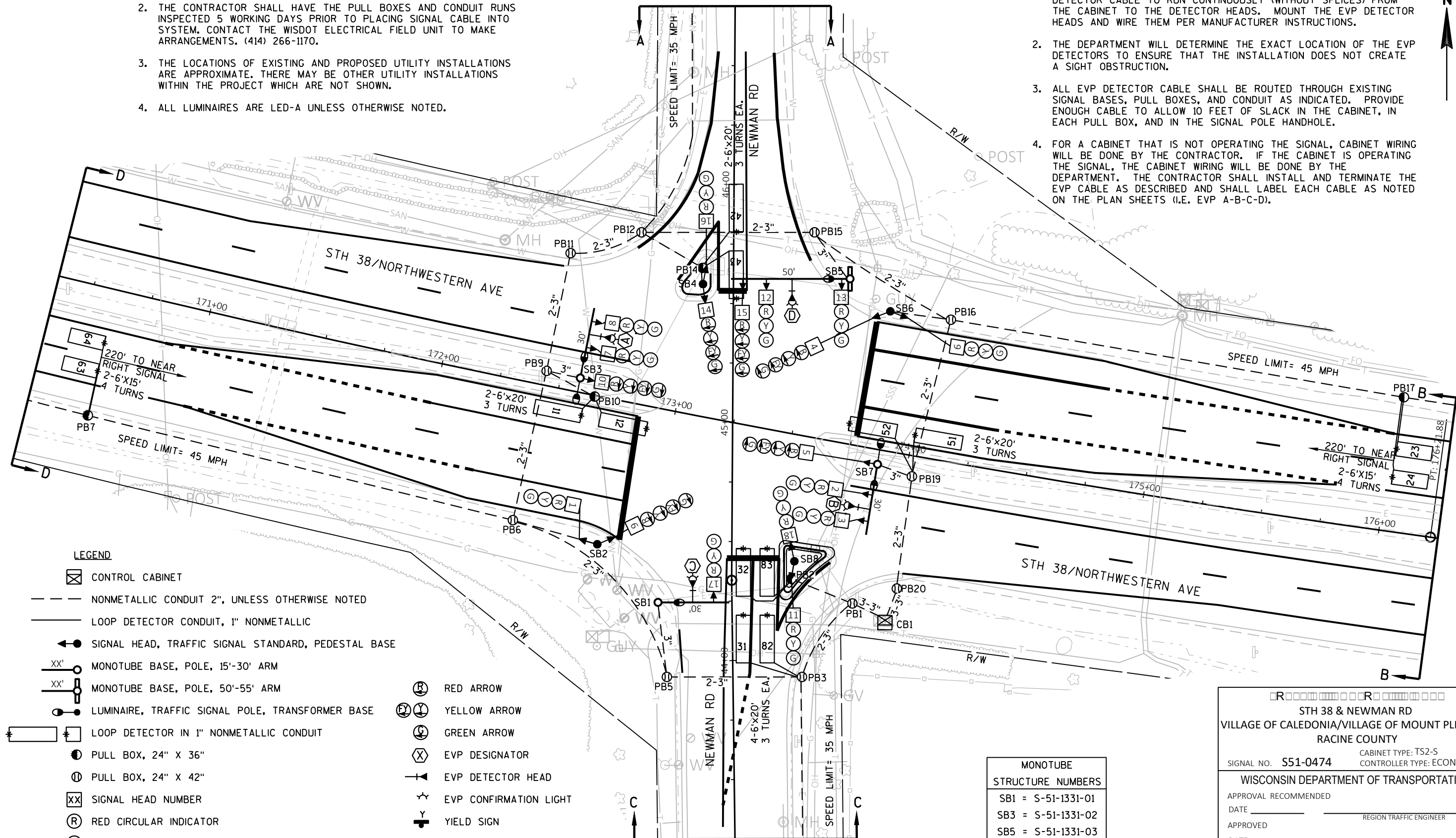
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TRAFFIC CONTROL SIGNAL
STH 38 & NEWMAN RD
VILLAGE OF CALEDONIA /
VILLAGE OF MOUNT PLEASANT
RACINE COUNTY
SIGNAL NO. S51-0474
REGION CONTACT: M. COWAP
DESIGNED BY: S. WAGNER
REVISED BY:

PAGE 2 OF 2

- CONSTRUCTION NOTES:
1. * LOCATION IS TO FRONT CENTER OF DETECTOR LOOP.
 2. THE CONTRACTOR SHALL HAVE THE PULL BOXES AND CONDUIT RUNS INSPECTED 5 WORKING DAYS PRIOR TO PLACING SIGNAL CABLE INTO SYSTEM. CONTACT THE WISDOT ELECTRICAL FIELD UNIT TO MAKE ARRANGEMENTS. (414) 266-1170.
 3. THE LOCATIONS OF EXISTING AND PROPOSED UTILITY INSTALLATIONS ARE APPROXIMATE. THERE MAY BE OTHER UTILITY INSTALLATIONS WITHIN THE PROJECT WHICH ARE NOT SHOWN.
 4. ALL LUMINAIRES ARE LED-A UNLESS OTHERWISE NOTED.

- EVP CONSTRUCTION NOTES:
1. INSTALL THE TRAFFIC SIGNAL EMERGENCY VEHICLE PRE-EMPTION DETECTOR CABLE TO RUN CONTINUOUSLY (WITHOUT SPLICES) FROM THE CABINET TO THE DETECTOR HEADS. MOUNT THE EVP DETECTOR HEADS AND WIRE THEM PER MANUFACTURER INSTRUCTIONS.
 2. THE DEPARTMENT WILL DETERMINE THE EXACT LOCATION OF THE EVP DETECTORS TO ENSURE THAT THE INSTALLATION DOES NOT CREATE A SIGHT OBSTRUCTION.
 3. ALL EVP DETECTOR CABLE SHALL BE ROUTED THROUGH EXISTING SIGNAL BASES, PULL BOXES, AND CONDUIT AS INDICATED. PROVIDE ENOUGH CABLE TO ALLOW 10 FEET OF SLACK IN THE CABINET, IN EACH PULL BOX, AND IN THE SIGNAL POLE HANDHOLE.
 4. FOR A CABINET THAT IS NOT OPERATING THE SIGNAL, CABINET WIRING WILL BE DONE BY THE CONTRACTOR. IF THE CABINET IS OPERATING THE SIGNAL, THE CABINET WIRING WILL BE DONE BY THE DEPARTMENT. THE CONTRACTOR SHALL INSTALL AND TERMINATE THE EVP CABLE AS DESCRIBED AND SHALL LABEL EACH CABLE AS NOTED ON THE PLAN SHEETS (I.E. EVP A-B-C-D).



LEGEND

- [Symbol] CONTROL CABINET
 - NONMETALLIC CONDUIT 2", UNLESS OTHERWISE NOTED
 - LOOP DETECTOR CONDUIT, 1" NONMETALLIC
 - [Symbol] SIGNAL HEAD, TRAFFIC SIGNAL STANDARD, PEDESTAL BASE
 - XX' [Symbol] MONOTUBE BASE, POLE, 15'-30' ARM
 - XX' [Symbol] MONOTUBE BASE, POLE, 50'-55' ARM
 - [Symbol] LUMINAIRE, TRAFFIC SIGNAL POLE, TRANSFORMER BASE
 - [Symbol] LOOP DETECTOR IN 1" NONMETALLIC CONDUIT
 - [Symbol] PULL BOX, 24" X 36"
 - [Symbol] PULL BOX, 24" X 42"
 - [XX] SIGNAL HEAD NUMBER
 - [R] RED CIRCULAR INDICATOR
 - [Y] YELLOW CIRCULAR INDICATOR
 - [G] GREEN CIRCULAR INDICATOR
 - [R] RED ARROW
 - [Y] YELLOW ARROW
 - [G] GREEN ARROW
 - [X] EVP DESIGNATOR
 - [Symbol] EVP DETECTOR HEAD
 - [Symbol] EVP CONFIRMATION LIGHT
 - [Y] YIELD SIGN
- NOTE: ALL LENSES ARE 12-INCH GRAYSHADE REPRESENTS EXISTING

MONOTUBE STRUCTURE NUMBERS	
SB1	= S-51-1331-01
SB3	= S-51-1331-02
SB5	= S-51-1331-03
SB7	= S-51-1331-04

STH 38 & NEWMAN RD
VILLAGE OF CALEDONIA/VILLAGE OF MOUNT PLEASANT
RACINE COUNTY

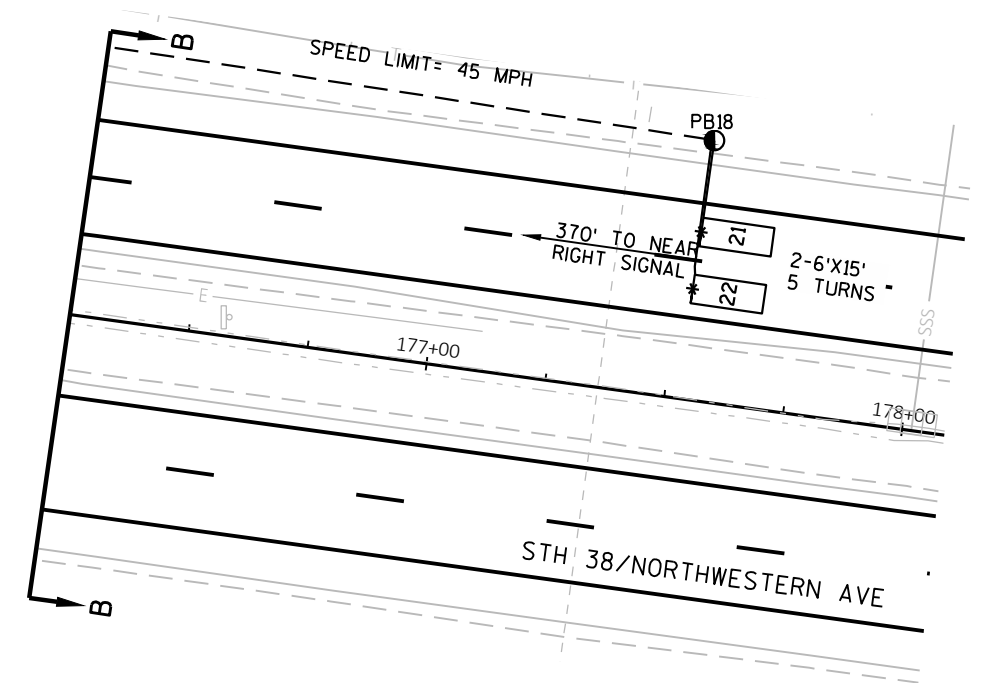
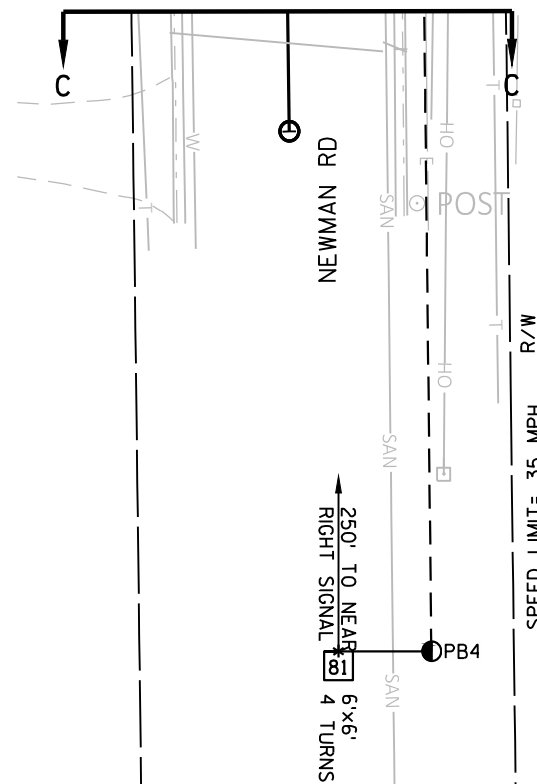
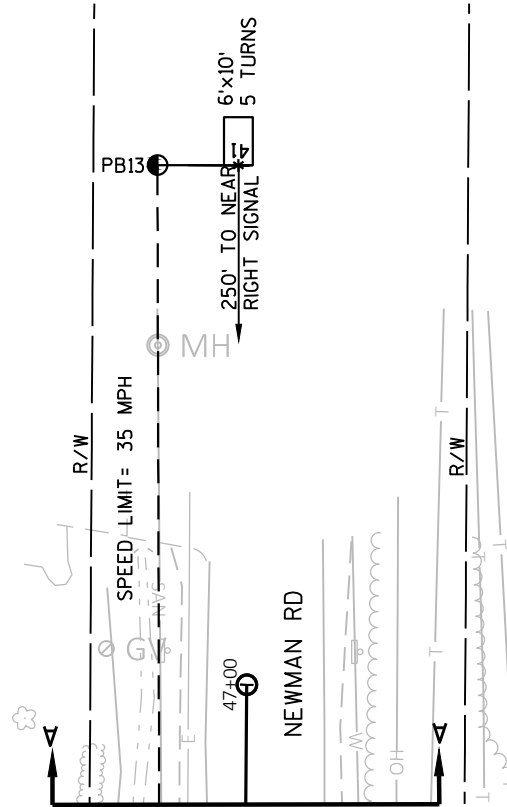
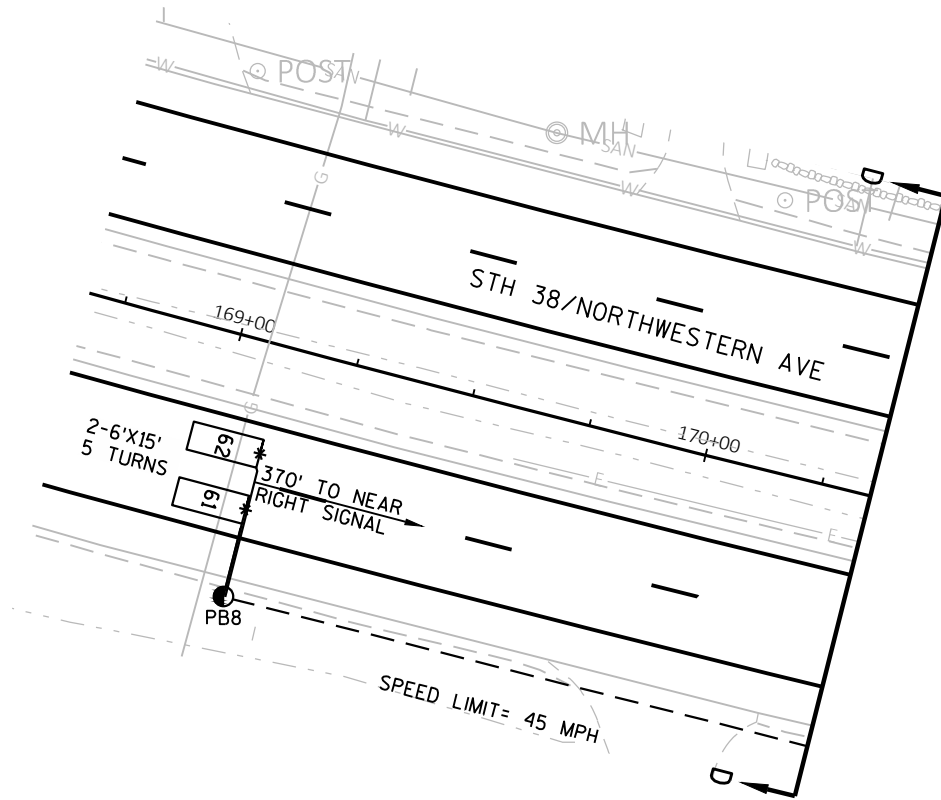
SIGNAL NO. S51-0474
CABINET TYPE: TS2-S
CONTROLLER TYPE: ECONOLITE

WISCONSIN DEPARTMENT OF TRANSPORTATION

APPROVAL RECOMMENDED
DATE _____ REGION TRAFFIC ENGINEER _____
APPROVED
DATE _____ STATE TRAFFIC ENGINEER _____

REGION CONTACT: M. COWAP
DESIGNED BY: S. WAGNER
REVISED BY: _____

PAGE 1 OF 3



TRAFFIC CONTROL SIGNAL
STH 38 & NEWMAN RD
VILLAGE OF CALEDONIA /
VILLAGE OF MOUNT PLEASANT
RACINE COUNTY

SIGNAL NO. S51-0474

REGION CONTACT: M. COWAP
DESIGNED BY: S. WAGNER
REVISED BY:

PAGE 2 OF 3

PROJECT NO: 2290-22-70

HWY: STH 38

COUNTY: RACINE

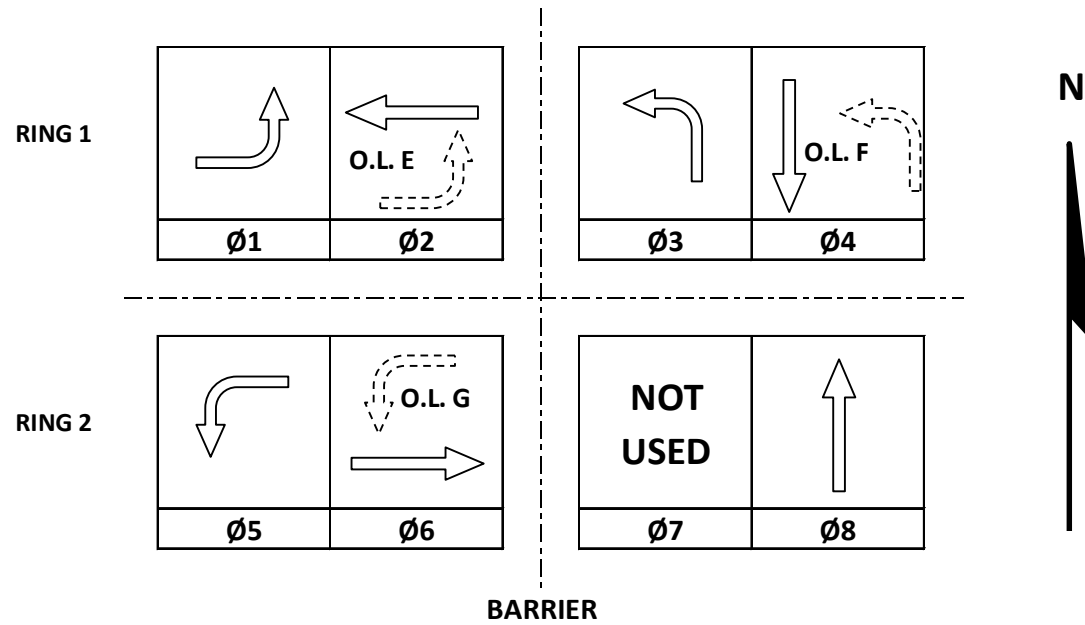
TRAFFIC SIGNAL PLAN

SHEET

PRE_69

E

	HEAD NUMBERS	FLASH
Ø1	4,5	R
Ø2	6,7,8	R
Ø3	14,15	R
Ø4	16,17,18	R
Ø5	9,10	R
Ø6	1,2,3	R
Ø7		
Ø8	11,12,13	R
Ø2P		
Ø4P		
Ø6P		
Ø8P		
OLE	4,5	-
OLF	14,15	-
OLG	9,10	-
OLH		

**CONTROLLER LOGIC**

PHASE NUMBER	PHASE LOCKING	DUAL ENTRY W / Ø	PHASE RECALL	PHASE ACTIVE
1		6		X
2	X	6	MIN	X
3		8		X
4		8		X
5		2		X
6	X	2	MIN	X
7				
8		4		X

EMERGENCY VEHICLE PREEMPTION SEQUENCE

EMERGENCY VEHICLE PREEMPTOR	A	B	C	D
MOVEMENT				
PHASE	2+5	6+1	4+8	8+3

AFTER PREEMPTION SEQUENCE 2+5 OR 6+1, CONTROLLER SHALL RETURN TO PHASES 2+6.

AFTER PREEMPTION SEQUENCE 4+8 OR 8+3, CONTROLLER SHALL RETURN TO PHASES 4+8.

TYPE OF INTERCONNECT/COMMUNICATION	
NONE	
CLOSED LOOP	
TWISTED PAIR	
FIBER OPTIC*	
FIBER OPTIC (ETHERNET)	X
RADIO	
CELL MODEM	X

TYPE OF COORDINATION	
NONE	X
TBC	
TRAFFIC RESPONSIVE	
ADAPTIVE	
*LOCATION OF MASTER CONTROLLER NO:	S-
SIGNAL SYSTEM NO:	SS-

TYPE OF LIGHTING	
BY OTHER AGENCY	
IN TRAFFIC CABINET	X
IN SEPARATE DOT LIGHTING CABINET	

TYPE OF PRE-EMPT	
NONE	
RAILROAD	
EMERGENCY VEHICLE	X
GTT	X
TOMAR	
HARDWIRE	
OTHER	
CONFIRMATION LIGHTS	X
LIFT BRIDGE	
QUEUE DETECTION	

DETECTOR LOGIC

DETECTOR INPUT	3	1	7	5	11	9	15	13
PLAN LOOP DETECTOR*(S)	11	21	23	31	41	43	51	61
CALLED PHASE	1	2	2	4	4	4	5	6
CALL OPTION	X	X	X	X		X	X	X
DELAY TIME				X		X		
EXTENTION OPTION	X	X	X	X	X	X	X	X
EXTEND TIME								
USE ADDED INITIAL		X	X					X
CROSS SWITCH PHASE	2						6	

DETECTOR INPUT	4	2	8	6	12	10	16	14
PLAN LOOP DETECTOR*(S)	12	22	24	32	42		52	62
CALLED PHASE	1	2	2	4	4		5	6
CALL OPTION	X	X	X	X	X		X	X
DELAY TIME				X				
EXTENTION OPTION	X	X	X	X	X		X	X
EXTEND TIME								
USE ADDED INITIAL		X	X					X
CROSS SWITCH PHASE	2						6	

DETECTOR INPUT	19	17	23	21	27	25	31	29
PLAN LOOP DETECTOR*(S)	63	81	83					
CALLED PHASE	6	8	8					
CALL OPTION	X		X					
DELAY TIME								
EXTENTION OPTION	X	X	X					
EXTEND TIME								
USE ADDED INITIAL	X							
CROSS SWITCH PHASE								

DETECTOR INPUT	20	18	24	22	28	26	32	30
PLAN LOOP DETECTOR*(S)	64	82						
CALLED PHASE	6	8						
CALL OPTION	X	X						
DELAY TIME								
EXTENTION OPTION	X	X						
EXTEND TIME								
USE ADDED INITIAL	X							
CROSS SWITCH PHASE								

DETECTOR INPUT								
PLAN LOOP DETECTOR*(S)								
CALLED PHASE								
CALL OPTION								
DELAY TIME								
EXTENTION OPTION								
EXTEND TIME								
USE ADDED INITIAL								
CROSS SWITCH PHASE								

GENERAL NOTES:

- PHASE 3 ONLY TIMES DURING EVP EVENTS. AT ALL OTHER TIMES, THIS MOVEMENT OPERATES PERMITTED ONLY.
- IF ANY OPPOSING THRU PHASES ARE TIMING CONCURRENTLY, THEY SHALL TERMINATE TOGETHER DUE TO PERMISSIVE LEFT TURN CONFLICT.

PROJECT ID:	2290-22-70
INTERSECTION:	STH 38 & NEWMAN RD

Signal Wire Color Coding	BLK - black	RED - red	GRN - green
	WHT - white	BLU - blue	ORG - orange

CB1 TO	AWG14 # OF CONDUCTORS	HEAD NO.	SIGNAL INDICATION WIRE COLOR									PED BUTTON	FUTURE APS
			RED	YELLOW	GREEN	<RED>	<YELLOW>	<GREEN>	<FLASHING YELLOW>	D/WALK	WALK		
SB1	7	17	RED	ORG	GRN								
SB2	12	1	RED	ORG	GRN								
		9				RED/BLK	ORG/BLK	GRN/BLK	BLK/WHT				
SB3	12	7	RED	ORG	GRN								
		8	RED	ORG	GRN								
		10				RED/BLK	ORG/BLK	GRN/BLK	BLK/WHT				
SB4	12	14				RED	ORG	GRN	BLK/WHT				
		16	RED/BLK	ORG/BLK	GRN/BLK								
SB5	12	12	RED	ORG	GRN								
		13	RED	ORG	GRN								
		15				RED/BLK	ORG/BLK	GRN/BLK	BLK/WHT				
SB6	12	4				RED	ORG	GRN	BLK/WHT				
		6	RED/BLK	ORG/BLK	GRN/BLK								
SB7	12	2	RED	ORG	GRN								
		3	RED	ORG	GRN								
		5				RED/BLK	ORG/BLK	GRN/BLK	BLK/WHT				
SB8	12	11	RED	ORG	GRN								
		18	RED/BLK	ORG/BLK	GRN/BLK								

- *Use the white conductor in the cable assembly as the grounded conductor for all traffic signal indications
- *Ensure the grounded conductor in the feeder cable and the pole cables are both 18" longer than the ungrounded conductors.
- *At the signal bases, connect one terminal from the pedestrian push buttons to the color indicated in the chart. Connect the other terminal to the grounded conductor.
- *Reconnect the grounding conductors wherever the circuit has been interrupted to ensure the grounding circuit is complete.

Equipment Grounding Conductor 10 AWG Green XLP	
From	To
CB1	SB1
SB1	SB2
SB2	SB3
SB3	SB4
SB4	SB5
SB5	SB6
SB6	SB7
SB7	SB8
SB8	CB1

Pull Box Bonding Jumper 10 AWG Green XLP	
From	To
PB1	CB1
PB3	CB1
PB5	SB1
PB6	SB2
PB9	SB3
PB11	SB3
PB12	SB4
PB15	SB5
PB16	SB6
PB19	SB7
PB20	CB1

Lighting UF 2-10 AWG Grounded	
From	To
CB1	SB1
SB1	SB3
SB1	SB7
SB7	SB5

Emergency Vehicle Preemption	
From	To
CB1	SB3 (HEAD A)
CB1	SB7 (HEAD B)
CB1	SB1 (HEAD C)
CB1	SB5 (HEAD D)

Confirmation Beacon Cable Traffic Signal 3-14 AWG	
From	To
CB1	SB3 (HEAD A)
CB1	SB7 (HEAD B)
CB1	SB1 (HEAD C)
CB1	SB5 (HEAD D)

SUMMARY OF SELECTED ITEMS FOR INFORMATION ONLY	
QUANTITY	DESCRIPTION
4 EA	WOOD POLES, CLASS 4
550 LF	SPAN WIRE
16 EA	SIGNAL HEADS
4 EA	LIGHTING LED-C OR 250W HPS
4 EA	EVP DETECTOR HEADS
1	TEMPORARY SIGNAL CABINET AND CONTROLLER

LEGEND

SPAN WIRE

WOOD POLE, CLASS 4

TEMPORARY LUMINAIRE

SIGNAL HEAD, OVERHEAD MOUNT

SIGNAL HEAD NUMBER

RED CIRCULAR INDICATOR

YELLOW CIRCULAR INDICATOR

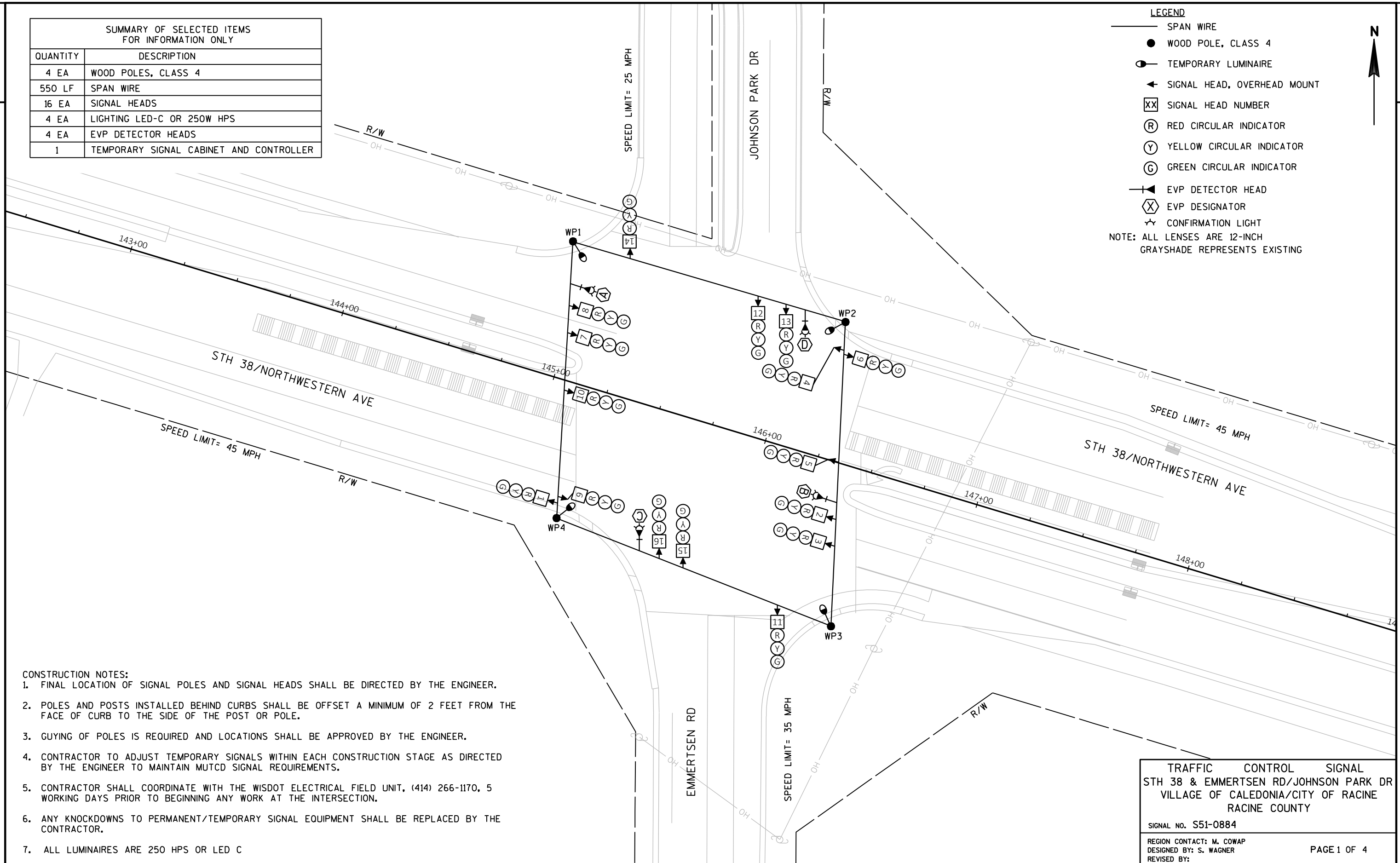
GREEN CIRCULAR INDICATOR

EVP DETECTOR HEAD

EVP DESIGNATOR

CONFIRMATION LIGHT

NOTE: ALL LENSES ARE 12-INCH
GRAYSHADE REPRESENTS EXISTING



- CONSTRUCTION NOTES:
- 1. FINAL LOCATION OF SIGNAL POLES AND SIGNAL HEADS SHALL BE DIRECTED BY THE ENGINEER.
 - 2. POLES AND POSTS INSTALLED BEHIND CURBS SHALL BE OFFSET A MINIMUM OF 2 FEET FROM THE FACE OF CURB TO THE SIDE OF THE POST OR POLE.
 - 3. GUYING OF POLES IS REQUIRED AND LOCATIONS SHALL BE APPROVED BY THE ENGINEER.
 - 4. CONTRACTOR TO ADJUST TEMPORARY SIGNALS WITHIN EACH CONSTRUCTION STAGE AS DIRECTED BY THE ENGINEER TO MAINTAIN MUTCD SIGNAL REQUIREMENTS.
 - 5. CONTRACTOR SHALL COORDINATE WITH THE WISDOT ELECTRICAL FIELD UNIT, (414) 266-1170, 5 WORKING DAYS PRIOR TO BEGINNING ANY WORK AT THE INTERSECTION.
 - 6. ANY KNOCKDOWNS TO PERMANENT/TEMPORARY SIGNAL EQUIPMENT SHALL BE REPLACED BY THE CONTRACTOR.
 - 7. ALL LUMINAIRES ARE 250 HPS OR LED C

TRAFFIC CONTROL SIGNAL

STH 38 & EMMERTSEN RD/JOHNSON PARK DR

VILLAGE OF CALEDONIA/CITY OF RACINE

RACINE COUNTY

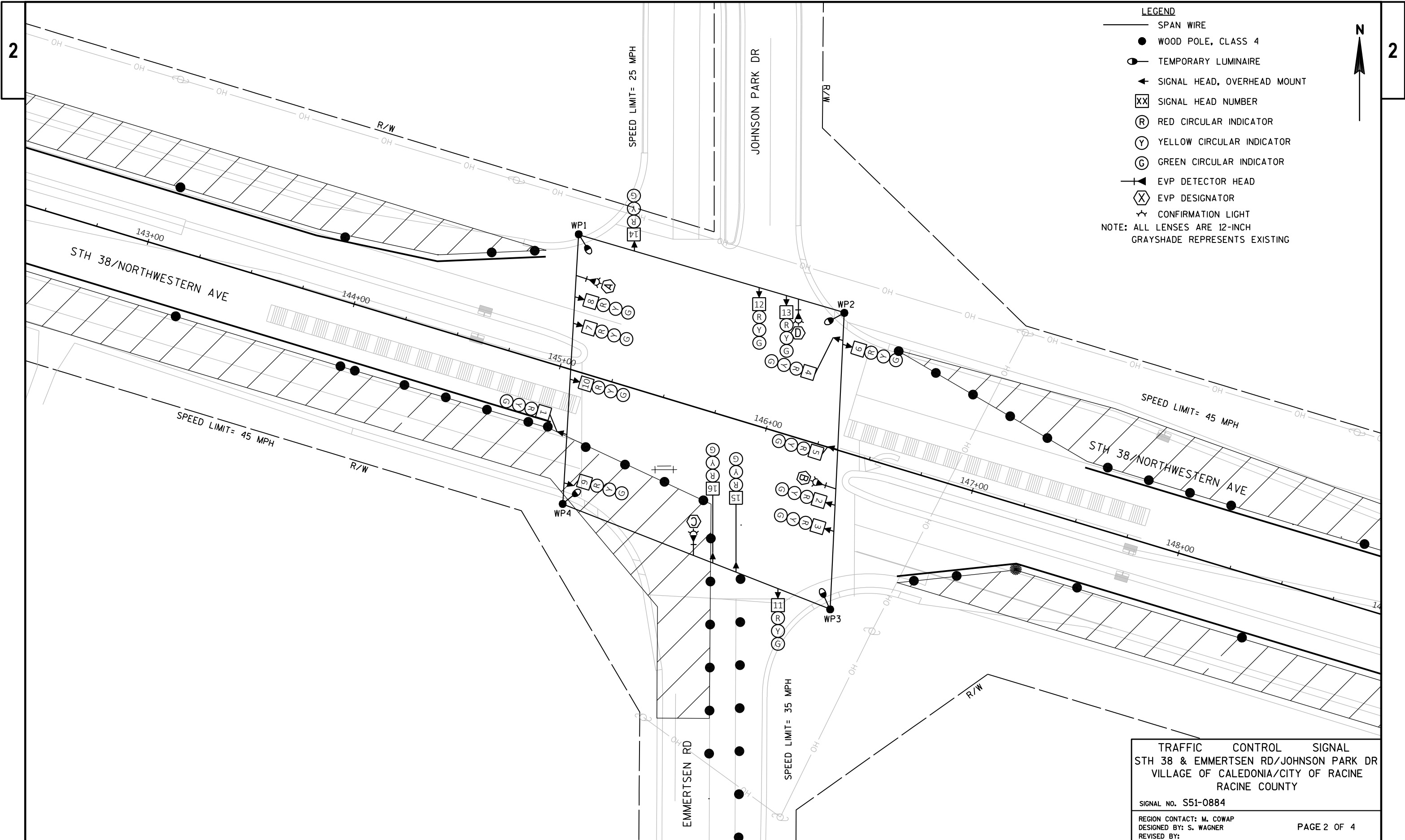
SIGNAL NO. S51-0884

REGION CONTACT: M. COWAP

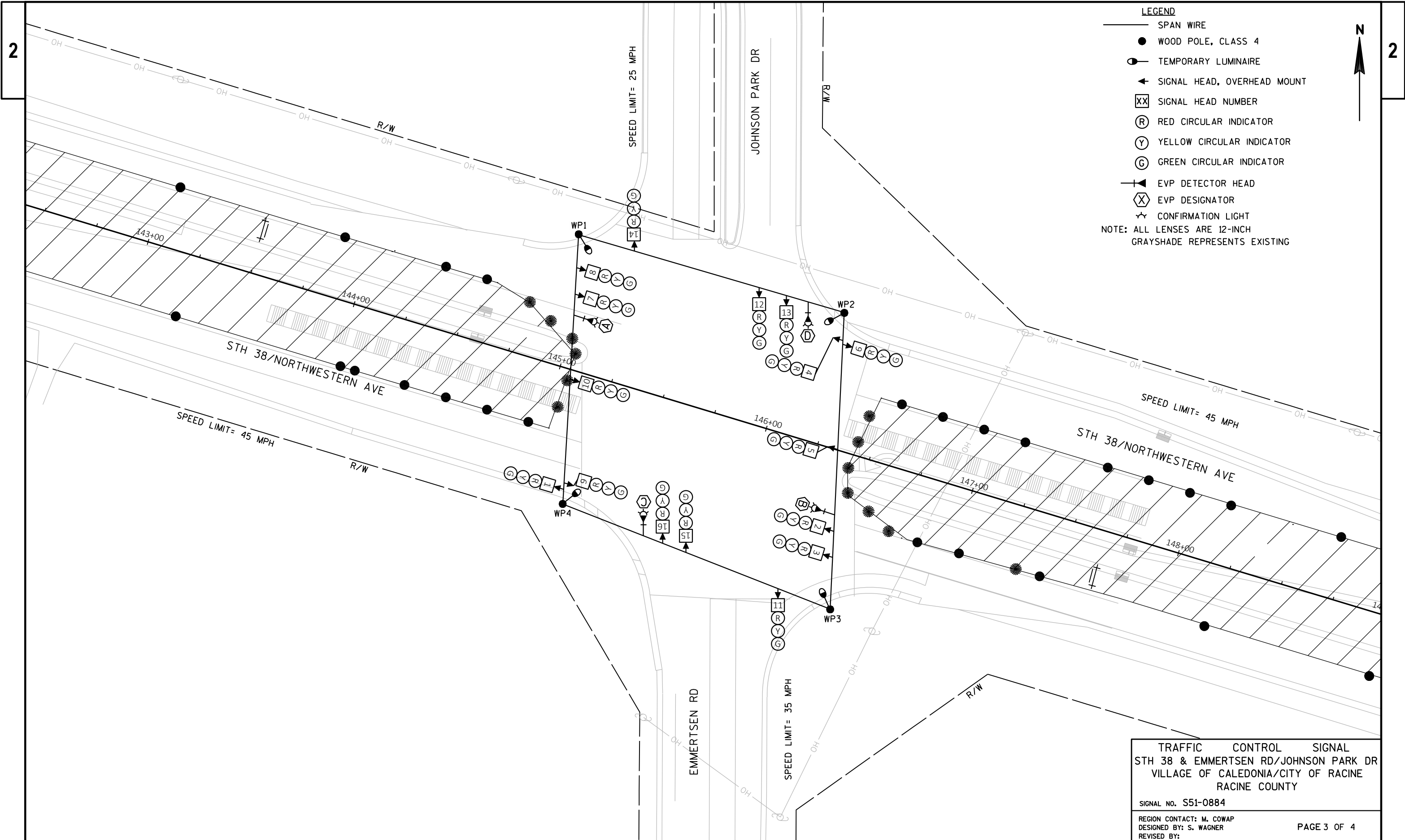
DESIGNED BY: S. WAGNER

REVISED BY:

PAGE 1 OF 4



TRAFFIC CONTROL SIGNAL	
STH 38 & EMMERTSEN RD/JOHNSON PARK DR	
VILLAGE OF CALEDONIA/CITY OF RACINE	
RACINE COUNTY	
SIGNAL NO. S51-0884	
REGION CONTACT: M. COWAP	PAGE 2 OF 4
DESIGNED BY: S. WAGNER	
REVISED BY:	



TRAFFIC CONTROL SIGNAL	
STH 38 & EMMERTSEN RD/JOHNSON PARK DR	
VILLAGE OF CALEDONIA/CITY OF RACINE	
RACINE COUNTY	
SIGNAL NO. S51-0884	
REGION CONTACT: M. COWAP	PAGE 3 OF 4
DESIGNED BY: S. WAGNER	
REVISED BY:	

	HEAD NUMBERS	F L A S H
Ø1		
Ø2	6,7,8,9,10	R
Ø3		
Ø4	14,15,16	R
Ø5		
Ø6	1,2,3,4,5	R
Ø7		
Ø8	11,12,13	R
Ø2P		
Ø4P		
Ø6P		
Ø8P		
OLA		
OLB		
OLC		
OLD		

RING 1

NOT USED	←
Ø1	Ø2

NOT USED	↓
Ø3	Ø4

RING 2

NOT USED	→
Ø5	Ø6

NOT USED	↑
Ø7	Ø8

BARRIER

N

CONTROLLER LOGIC

PHASE NUMBER	PHASE LOCKING	DUAL ENTRY W / Ø	PHASE RECALL	PHASE ACTIVE
1				
2		6	MAX	X
3				
4		8	MAX	X
5				
6		2	MAX	X
7				
8		4	MAX	X

TYPE OF INTERCONNECT/COMMUNICATION	
NONE	
CLOSED LOOP	
TWISTED PAIR	
FIBER OPTIC*	
FIBER OPTIC (ETHERNET)	
RADIO	
CELL MODEM	X

TYPE OF COORDINATION	
NONE	X
TBC	
TRAFFIC RESPONSIVE	
ADAPTIVE	
*LOCATION OF MASTER CONTROLLER NO:	S-
SIGNAL SYSTEM NO:	SS-

TYPE OF LIGHTING	
BY OTHER AGENCY	
IN TRAFFIC CABINET	X
IN SEPARATE DOT LIGHTING CABINET	

TYPE OF PRE-EMPT	
NONE	
RAILROAD	
EMERGENCY VEHICLE	X
GTT	
TOMAR	
HARDWIRE	
OTHER	
CONFIRMATION LIGHTS	
LIFT BRIDGE	
QUEUE DETECTION	

EMERGENCY VEHICLE PREEMPTION SEQUENCE

EMERGENCY VEHICLE PREEMPTOR	A	B	C	D
MOVEMENT	↔	↔	↕	↕
PHASE	2+6	6+2	4+8	8+4

AFTER PREEMPTION SEQUENCE 2+6 OR 6+2, CONTROLLER SHALL RETURN TO PHASES 2+6.
AFTER PREEMPTION SEQUENCE 4+8 OR 8+4, CONTROLLER SHALL RETURN TO PHASES 4+8.

STH 38 & EMMERTSEN RD/JOHNSON PARK DR

VILLAGE OF CALEDONIA/CITY OF RACINE

RACINE COUNTY

SIGNAL NO: S51-0884CABINET TYPE: TEMP

CONTROLLER TYPE: ECONOLITE

DATE: MARCH 2020PAGE NUMBER: 4 OF 4

CONSTRUCTION NOTES:

1. EXISTING CONDUIT RUNS TO BE ABANDONED IN PLACE. CONTRACTOR TO REMOVE ANY CONDUCTORS REMAINING IN THE CONDUIT.
2. ABANDONED LOOP DETECTOR CONDUIT TO REMAIN IN PLACE. LOOP DETECTOR WIRE AND LEAD-IN CABLE TO BE REMOVED BY THE CONTRACTOR.
3. CABINET AND CONTROLLER SHALL BE REMOVED BY WISDOT ELECTRICAL PERSONNEL.
4. THE LOCATIONS OF EXISTING UTILITY INSTALLATIONS ARE APPROXIMATE. THERE MAY BE OTHER UTILITY INSTALLATIONS WITHIN THE PROJECT WHICH ARE NOT SHOWN.
5. GRAYSHADE REPRESENTS EXISTING. BOLD REPRESENTS ITEMS TO BE REMOVED.

LEGEND

- | | | | |
|--|---|--|--------------------------------|
| | CONTROL CABINET | | EVP DESIGNATOR |
| | NONMETALLIC CONDUIT 2", UNLESS OTHERWISE NOTED | | EVP DETECTOR HEAD |
| | LOOP DETECTOR CONDUIT, 1" NONMETALLIC | | CONFIRMATION LIGHT |
| | SIGNAL HEAD, TRAFFIC SIGNAL STANDARD, PEDESTAL BASE | | LANE DESIGNATION FOR INFO ONLY |
| | (XX) SIGNAL HEAD, TRAFFIC SIGNAL POLE, TRANSFORMER BASE | | |
| | LUMINAIRE, TRAFFIC POLE, TRANSFORMER BASE | | |
| | LOOP DETECTOR IN 1" NONMETALLIC CONDUIT | | |
| | PULL BOX, 24" X 36" | | |
| | XX SIGNAL HEAD NUMBER | | |
| | (R) RED CIRCULAR INDICATOR | | |
| | (Y) YELLOW CIRCULAR INDICATOR | | |
| | (G) GREEN CIRCULAR INDICATOR | | |

NOTE: ALL LENSES ARE 12-INCH
GRAYSHADE REPRESENTS EXISTING

TRAFFIC CONTROL SIGNAL
STH 38 & EMMERTSEN RD/JOHNSON PARK DR
VILLAGE OF CALEDONIA/CITY OF RACINE
RACINE COUNTY

SIGNAL NO. S51-0884

REGION CONTACT: M. COWAP
DESIGNED BY: S. WAGNER
REVISED BY:

PAGE 1 OF 2

PROJECT NO: 2290-22-70

HWY: STH 38

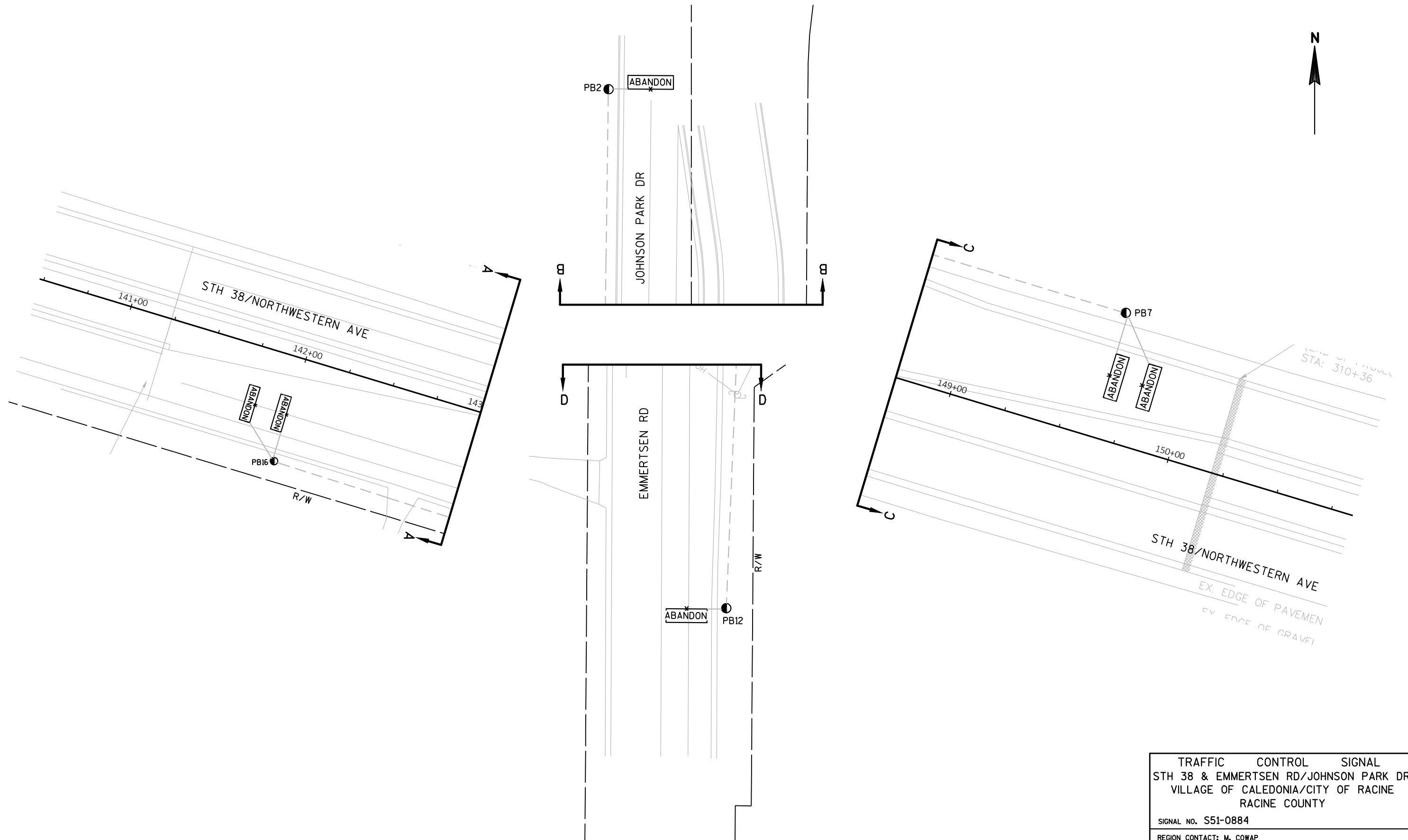
COUNTY: RACINE

TRAFFIC SIGNAL REMOVAL PLAN

SHEET

PRE_77

E



PROJECT NO: 2290-22-70

HWY: STH 38

COUNTY: RACINE

TRAFFIC SIGNAL REMOVAL PLAN

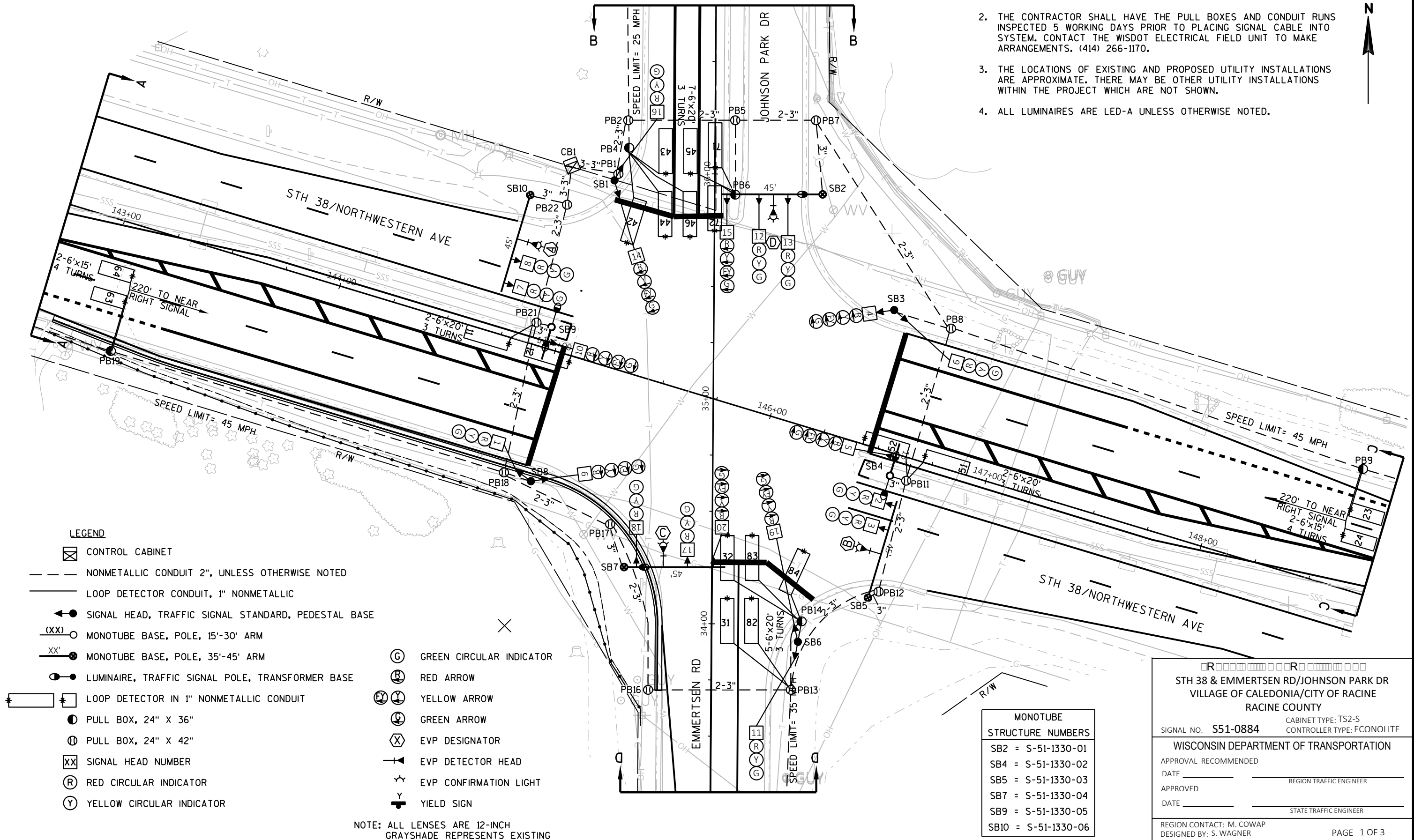
SHEET

PRE_78

E

CONSTRUCTION NOTES:

1. * LOCATION IS TO FRONT CENTER OF DETECTOR LOOP.
2. THE CONTRACTOR SHALL HAVE THE PULL BOXES AND CONDUIT RUNS INSPECTED 5 WORKING DAYS PRIOR TO PLACING SIGNAL CABLE INTO SYSTEM. CONTACT THE WISDOT ELECTRICAL FIELD UNIT TO MAKE ARRANGEMENTS. (414) 266-1170.
3. THE LOCATIONS OF EXISTING AND PROPOSED UTILITY INSTALLATIONS ARE APPROXIMATE. THERE MAY BE OTHER UTILITY INSTALLATIONS WITHIN THE PROJECT WHICH ARE NOT SHOWN.
4. ALL LUMINAIRES ARE LED-A UNLESS OTHERWISE NOTED.



LEGEND

- ☒ CONTROL CABINET
- NONMETALLIC CONDUIT 2", UNLESS OTHERWISE NOTED
- LOOP DETECTOR CONDUIT, 1" NONMETALLIC
- ◀● SIGNAL HEAD, TRAFFIC SIGNAL STANDARD, PEDESTAL BASE
- (XX) ○ MONOTUBE BASE, POLE, 15'-30' ARM
- XX' ○ MONOTUBE BASE, POLE, 35'-45' ARM
- LUMINAIRE, TRAFFIC SIGNAL POLE, TRANSFORMER BASE
- ☒ LOOP DETECTOR IN 1" NONMETALLIC CONDUIT
- PULL BOX, 24" X 36"
- ① PULL BOX, 24" X 42"
- ☒ SIGNAL HEAD NUMBER
- Ⓡ RED CIRCULAR INDICATOR
- Ⓨ YELLOW CIRCULAR INDICATOR

- Ⓢ GREEN CIRCULAR INDICATOR
- Ⓡ RED ARROW
- Ⓨ YELLOW ARROW
- Ⓢ GREEN ARROW
- Ⓢ EVP DESIGNATOR
- Ⓢ EVP DETECTOR HEAD
- Ⓢ EVP CONFIRMATION LIGHT
- Ⓢ YIELD SIGN

NOTE: ALL LENSES ARE 12-INCH
GRAYSHADE REPRESENTS EXISTING

MONOTUBE STRUCTURE NUMBERS	
SB2	= S-51-1330-01
SB4	= S-51-1330-02
SB5	= S-51-1330-03
SB7	= S-51-1330-04
SB9	= S-51-1330-05
SB10	= S-51-1330-06

STH 38 & EMMERTSEN RD/JOHNSON PARK DR VILLAGE OF CALEDONIA/CITY OF RACINE RACINE COUNTY	
CABINET TYPE: TS2-S CONTROLLER TYPE: ECONOLITE	
SIGNAL NO. S51-0884	
WISCONSIN DEPARTMENT OF TRANSPORTATION	
APPROVAL RECOMMENDED	
DATE _____	REGION TRAFFIC ENGINEER _____
APPROVED	
DATE _____	STATE TRAFFIC ENGINEER _____
REGION CONTACT: M. COWAP DESIGNED BY: S. WAGNER REVISED BY: _____	

PROJECT NO: 2290-22-70

HWY: STH 38

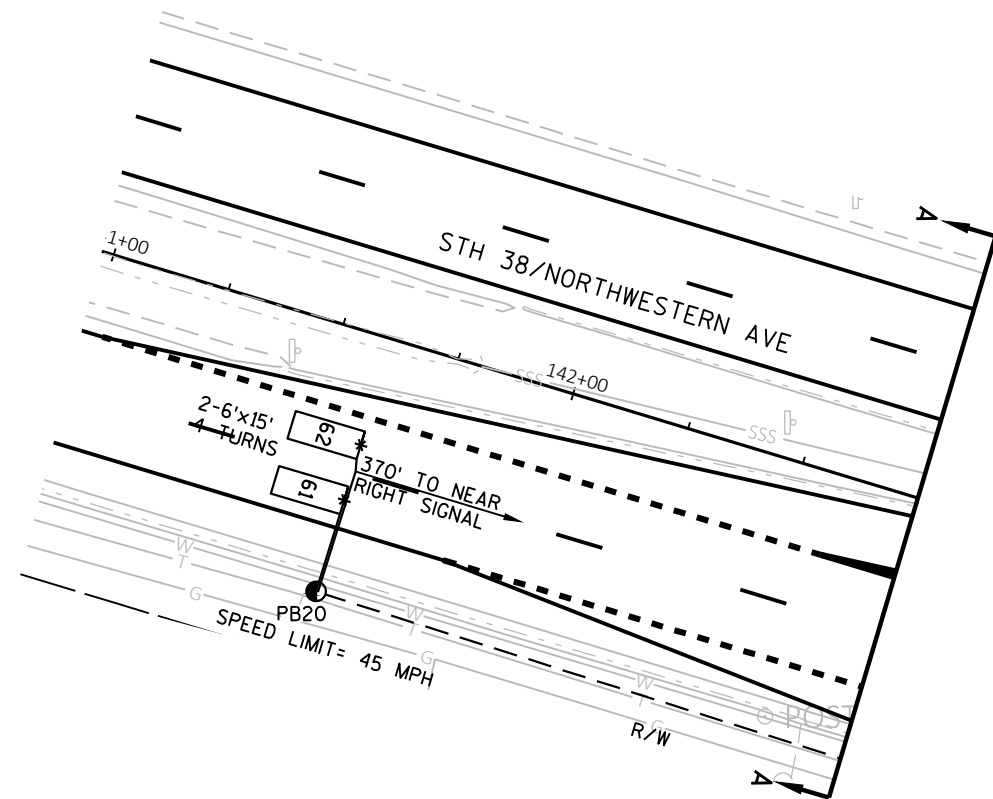
COUNTY: RACINE

TRAFFIC SIGNAL PLAN

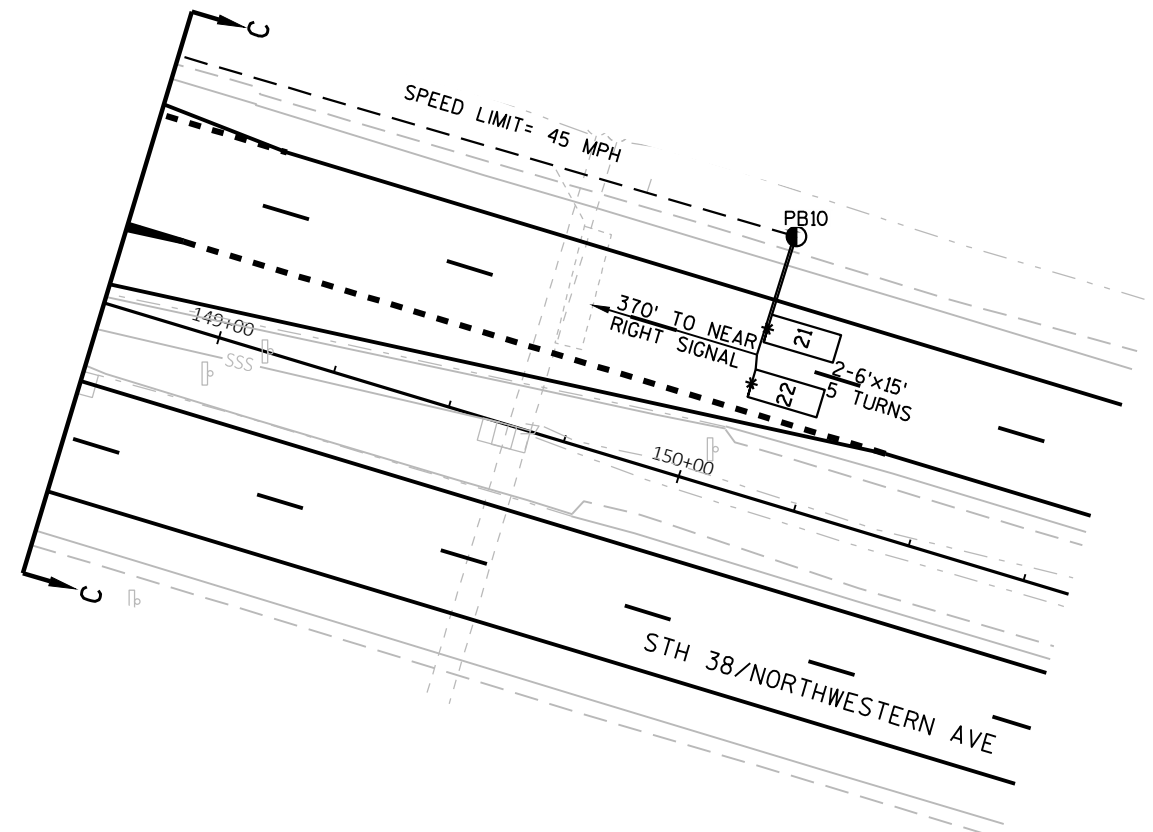
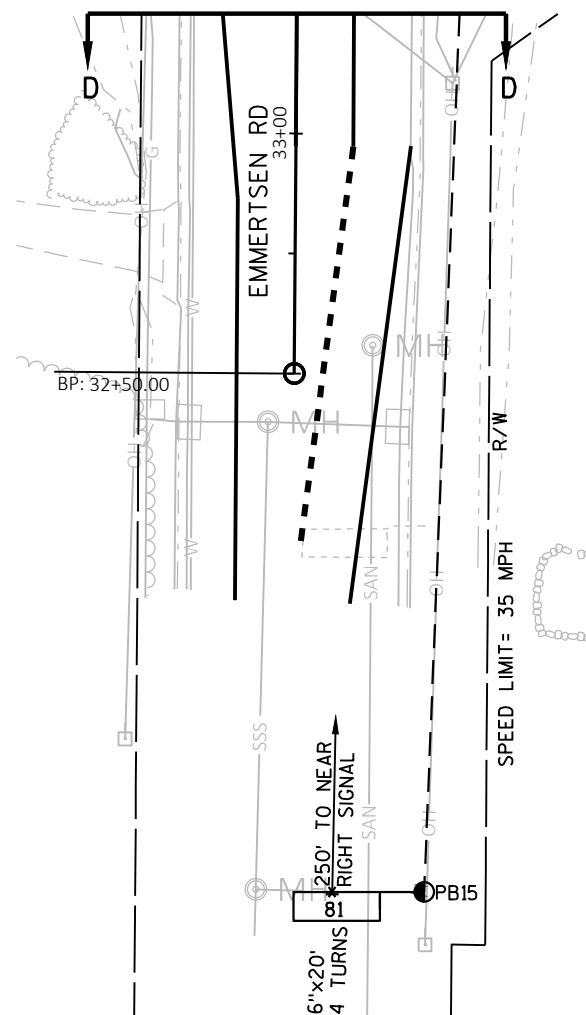
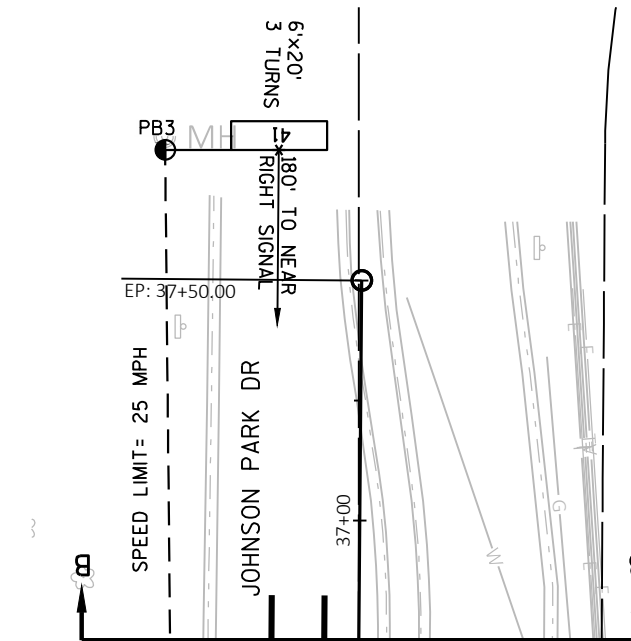
SHEET

PRE_79

E

**EVP CONSTRUCTION NOTES:**

1. INSTALL THE TRAFFIC SIGNAL EMERGENCY VEHICLE PRE-EMPTION DETECTOR CABLE TO RUN CONTINUOUSLY (WITHOUT SPLICES) FROM THE CABINET TO THE DETECTOR HEADS. MOUNT THE EVP DETECTOR HEADS AND WIRE THEM PER MANUFACTURER INSTRUCTIONS.
2. THE DEPARTMENT WILL DETERMINE THE EXACT LOCATION OF THE EVP DETECTORS TO ENSURE THAT THE INSTALLATION DOES NOT CREATE A SIGHT OBSTRUCTION.
3. ALL EVP DETECTOR CABLE SHALL BE ROUTED THROUGH EXISTING SIGNAL BASES, PULL BOXES, AND CONDUIT AS INDICATED. PROVIDE ENOUGH CABLE TO ALLOW 10 FEET OF SLACK IN THE CABINET, IN EACH PULL BOX, AND IN THE SIGNAL POLE HANDHOLE.
4. FOR A CABINET THAT IS NOT OPERATING THE SIGNAL, CABINET WIRING WILL BE DONE BY THE CONTRACTOR. IF THE CABINET IS OPERATING THE SIGNAL, THE CABINET WIRING WILL BE DONE BY THE DEPARTMENT. THE CONTRACTOR SHALL INSTALL AND TERMINATE THE EVP CABLE AS DESCRIBED AND SHALL LABEL EACH CABLE AS NOTED ON THE PLAN SHEETS (I.E. EVP A-B-C-D).



TRAFFIC CONTROL SIGNAL	
STH 38 & EMMERTSEN RD/JOHNSON PARK DR	
VILLAGE OF CALEDONIA/CITY OF RACINE	
RACINE COUNTY	
SIGNAL NO. S51-0884	
REGION CONTACT: M. COWAP	PAGE 2 OF 3
DESIGNED BY: S. WAGNER	
REVISED BY:	

PROJECT NO: 2290-22-70

HWY: STH 38

COUNTY: RACINE

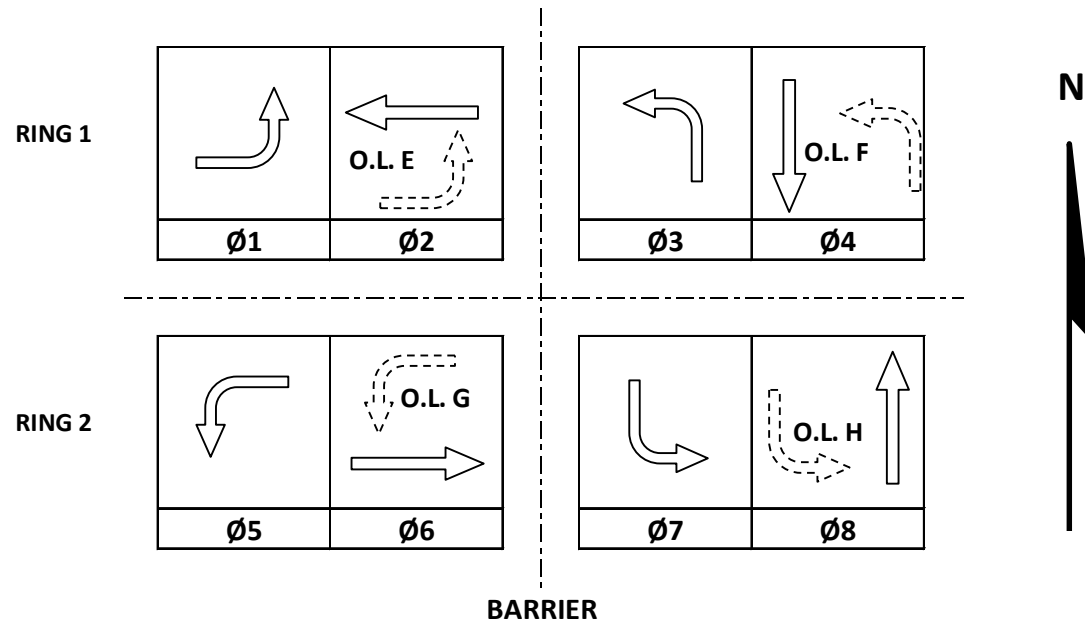
TRAFFIC SIGNAL PLAN

SHEET

PRE_80

E

	HEAD NUMBERS	FLASH
Ø1	4,5	R
Ø2	6,7,8	R
Ø3	14,15	R
Ø4	16,17,18	R
Ø5	9,10	R
Ø6	1,2,3	R
Ø7	19,20	R
Ø8	11,12,13	R
Ø2P		
Ø4P		
Ø6P		
Ø8P		
OLE	4,5	-
OLF	14,15	-
OLG	9,10	-
OLH	19,20	-



CONTROLLER LOGIC

PHASE NUMBER	PHASE LOCKING	DUAL ENTRY W / Ø	PHASE RECALL	PHASE ACTIVE
1		6		X
2	X	6	MIN	X
3		8		X
4		8		X
5		2		X
6	X	2	MIN	X
7		4		X
8		4		X

EMERGENCY VEHICLE PREEMPTION SEQUENCE

EMERGENCY VEHICLE PREEMPTOR	A	B	C	D
MOVEMENT				
PHASE	2+5	6+1	4+7	8+3

AFTER PREEMPTION SEQUENCE 2+5 OR 6+1, CONTROLLER SHALL RETURN TO PHASES 2+6.

AFTER PREEMPTION SEQUENCE 4+7 OR 8+3, CONTROLLER SHALL RETURN TO PHASES 4+8.

TYPE OF INTERCONNECT/COMMUNICATION	
NONE	
CLOSED LOOP	
TWISTED PAIR	
FIBER OPTIC*	
FIBER OPTIC (ETHERNET)	X
RADIO	
CELL MODEM	X

TYPE OF COORDINATION	
NONE	X
TBC	
TRAFFIC RESPONSIVE	
ADAPTIVE	
*LOCATION OF MASTER CONTROLLER NO:	S-
SIGNAL SYSTEM NO:	SS-

TYPE OF LIGHTING	
BY OTHER AGENCY	
IN TRAFFIC CABINET	X
IN SEPARATE DOT LIGHTING CABINET	

TYPE OF PRE-EMPT	
NONE	
RAILROAD	
EMERGENCY VEHICLE	X
GTT	X
TOMAR	
HARDWIRE	
OTHER	
CONFIRMATION LIGHTS	X
LIFT BRIDGE	
QUEUE DETECTION	

DETECTOR LOGIC

DETECTOR INPUT	3	1	7	5	11	9	15	13
PLAN LOOP DETECTOR*(S)	11	21	23	31	41	43	45	51
CALLED PHASE	1	2	2	3	4	4	4	5
CALL OPTION	X	X	X	X		X	X	X
DELAY TIME				X		X		
EXTENTION OPTION	X	X	X	X	X	X	X	X
EXTEND TIME								
USE ADDED INITIAL		X	X					
CROSS SWITCH PHASE	2			8				6

DETECTOR INPUT	4	2	8	6	12	10	16	14
PLAN LOOP DETECTOR*(S)	12	22	24	32	42	44	46	52
CALLED PHASE	1	2	2	3	4	4	4	5
CALL OPTION	X	X	X	X	X	X	X	X
DELAY TIME				X	X			
EXTENTION OPTION	X	X	X	X	X	X	X	X
EXTEND TIME								
USE ADDED INITIAL		X	X					
CROSS SWITCH PHASE	2			8				6

DETECTOR INPUT	19	17	23	21	27	25	31	29
PLAN LOOP DETECTOR*(S)	61	63	71	81	83			
CALLED PHASE	6	6	7	8	8			
CALL OPTION	X	X	X		X			
DELAY TIME								
EXTENTION OPTION	X	X	X	X	X			
EXTEND TIME								
USE ADDED INITIAL	X	X						
CROSS SWITCH PHASE			4					

DETECTOR INPUT	20	18	24	22	28	26	32	30
PLAN LOOP DETECTOR*(S)	62	64	72	82	84			
CALLED PHASE	6	6	7	8	8			
CALL OPTION	X	X	X	X	X			
DELAY TIME					X			
EXTENTION OPTION	X	X	X	X	X			
EXTEND TIME								
USE ADDED INITIAL	X	X						
CROSS SWITCH PHASE			4					

DETECTOR INPUT

PLAN LOOP DETECTOR*(S)

CALLED PHASE

CALL OPTION

DELAY TIME

EXTENTION OPTION

EXTEND TIME

USE ADDED INITIAL

CROSS SWITCH PHASE

DETECTOR INPUT

PLAN LOOP DETECTOR*(S)

CALLED PHASE

CALL OPTION

DELAY TIME

EXTENTION OPTION

EXTEND TIME

USE ADDED INITIAL

CROSS SWITCH PHASE

GENERAL NOTES:

- PHASES 1, 3 AND 7 ONLY TIME DURING EVP EVENTS. AT ALL OTHER TIMES, THESE LEFT TURN MOVEMENTS ARE PERMITTED ONLY.

STH 38 & EMMERTSEN RD/JOHNSON PARK RD	
VILLAGE OF CALEDONIA/CITY OF RACINE	
RACINE COUNTY	
SIGNAL NO: S51-0884	CABINET TYPE: TS2-S
CONTROLLER TYPE: ECONOLITE	
DATE: MARCH 2020	PAGE NUMBER: 3 OF 3

PROJECT ID:	2290-22-70
INTERSECTION:	STH 38 & EMMERTSEN RD/JOHSON PARK RD

Signal Wire Color Coding	BLK - black	RED - red	GRN - green
	WHT - white	BLU - blue	ORG - orange

CB1 TO	AWG14 # OF CONDUCTORS	HEAD NO.	SIGNAL INDICATION WIRE COLOR									PED BUTTON	FUTURE APS
			RED	YELLOW	GREEN	<RED>	<YELLOW>	<GREEN>	<FLASHING YELLOW>	D/WALK	WALK		
SB1	12	14				RED	ORG	GRN	BLK/WHT				
		16	RED/BLK	ORG/BLK	GRN/BLK								
SB2	12	12	RED	ORG	GRN								
		13	RED	ORG	GRN								
		15				RED/BLK	ORG/BLK	GRN/BLK	BLK/WHT				
SB3	12	4				RED	ORG	GRN	BLK/WHT				
		6	RED/BLK	ORG/BLK	GRN/BLK								
SB4	12	5				RED	ORG	GRN	BLK/WHT				
SB5	7	2	RED	ORG	GRN								
		3	RED	ORG	GRN								
SB6	12	11	RED	ORG	GRN								
		19				RED/BLK	ORG/BLK	GRN/BLK	BLK/WHT				
SB7	12	17	RED	ORG	GRN								
		18	RED	ORG	GRN								
		20				RED/BLK	ORG/BLK	GRN/BLK	BLK/WHT				
SB8	12	1	RED	ORG	GRN								
		9				RED/BLK	ORG/BLK	GRN/BLK	BLK/WHT				
SB9	12	10				RED	ORG	GRN	BLK/WHT				
SB10	7	7	RED	ORG	GRN								
		8	RED	ORG	GRN								

- *Use the white conductor in the cable assembly as the grounded conductor for all traffic signal indications
- *Ensure the grounded conductor in the feeder cable and the pole cables are both 18" longer than the ungrounded conductors.
- *At the signal bases, connect one terminal from the pedestrian push buttons to the color indicated in the chart. Connect the other terminal to the grounded conductor.
- *Reconnect the grounding conductors wherever the circuit has been interrupted to ensure the grounding circuit is complete.

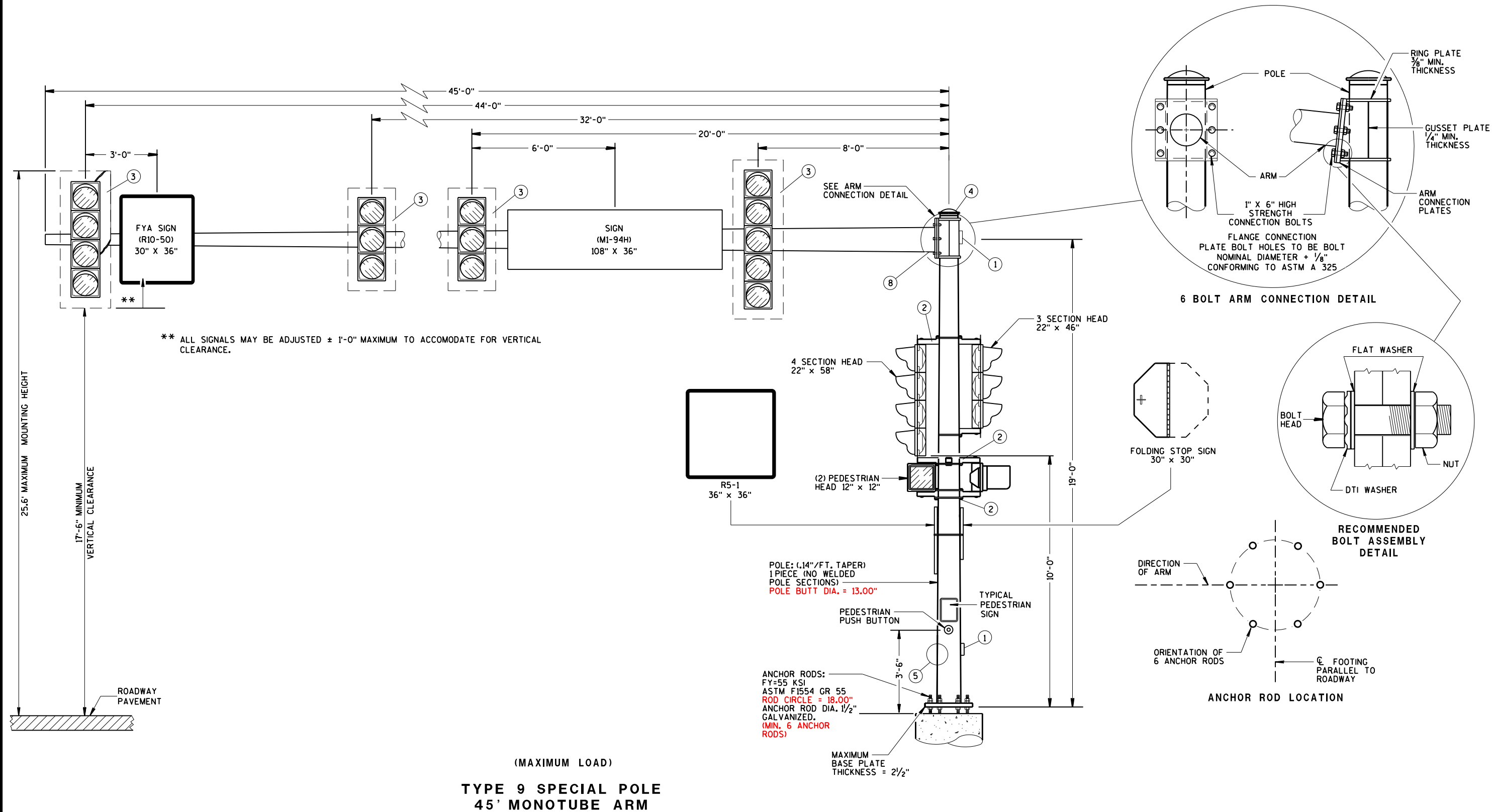
Equipment Grounding Conductor 10 AWG Green XLP	
From	To
CB1	SB1
SB1	SB2
SB2	SB3
SB3	SB4
SB4	SB5
SB5	SB6
SB6	SB7
SB7	SB8
SB8	SB9
SB9	SB10
SB10	CB1

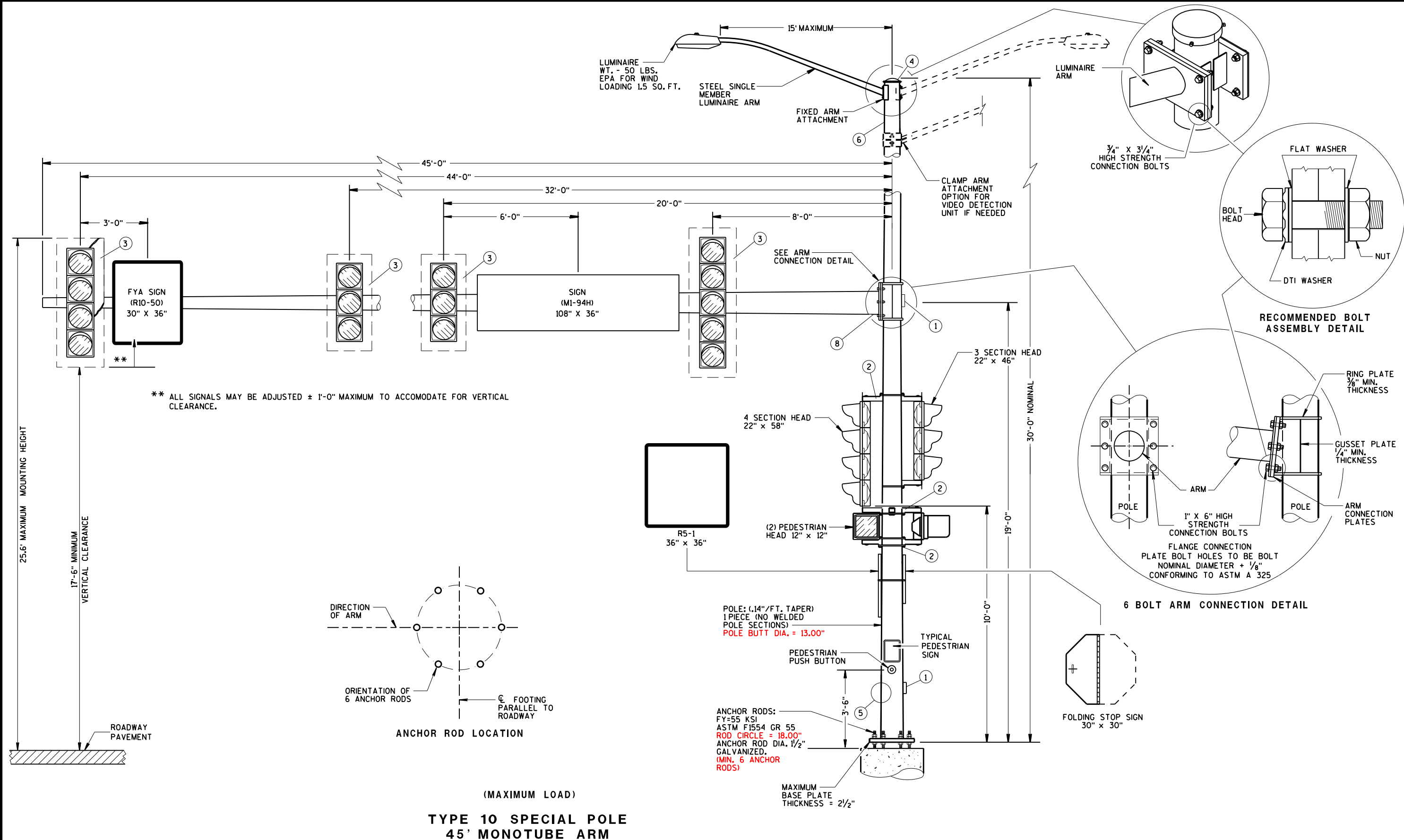
Pull Box Bonding Jumper 10 AWG Green XLP	
From	To
PB1	CB1
PB2	CB1
PB5	SB2
PB7	SB2
PB8	SB3
PB11	SB4
PB12	SB5
PB13	SB5
PB16	SB5
PB17	SB7
PB18	SB7
PB21	SB9
PB22	CB1

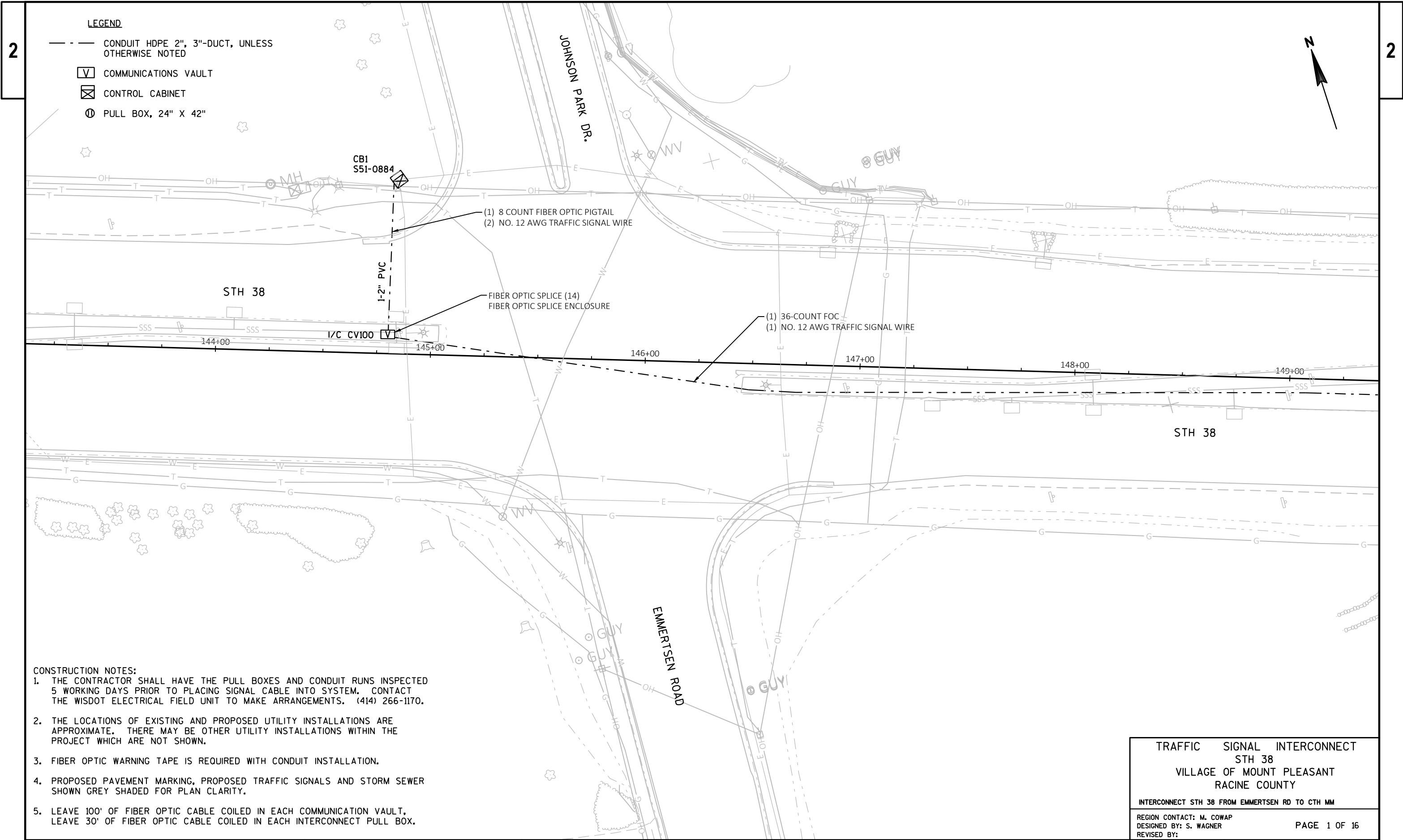
Lighting UF 2-10 AWG Grounded	
From	To
CB1	SB2
SB2	SB4
CB1	SB9
SB9	SB7

Emergency Vehicle Preemption	
From	To
CB1	SB10 (HEAD A)
CB1	SB5 (HEAD B)
CB1	SB7 (HEAD C)
CB1	SB2 (HEAD D)

Confirmation Beacon Cable Traffic Signal 3-14 AWG	
From	To
CB1	SB10 (HEAD A)
CB1	SB5 (HEAD B)
CB1	SB7 (HEAD C)
CB1	SB2 (HEAD D)







- CONSTRUCTION NOTES:
1. THE CONTRACTOR SHALL HAVE THE PULL BOXES AND CONDUIT RUNS INSPECTED 5 WORKING DAYS PRIOR TO PLACING SIGNAL CABLE INTO SYSTEM. CONTACT THE WISDOT ELECTRICAL FIELD UNIT TO MAKE ARRANGEMENTS. (414) 266-1170.
 2. THE LOCATIONS OF EXISTING AND PROPOSED UTILITY INSTALLATIONS ARE APPROXIMATE. THERE MAY BE OTHER UTILITY INSTALLATIONS WITHIN THE PROJECT WHICH ARE NOT SHOWN.
 3. FIBER OPTIC WARNING TAPE IS REQUIRED WITH CONDUIT INSTALLATION.
 4. PROPOSED PAVEMENT MARKING, PROPOSED TRAFFIC SIGNALS AND STORM SEWER SHOWN GREY SHADED FOR PLAN CLARITY.
 5. LEAVE 100' OF FIBER OPTIC CABLE COILED IN EACH COMMUNICATION VAULT. LEAVE 30' OF FIBER OPTIC CABLE COILED IN EACH INTERCONNECT PULL BOX.

TRAFFIC SIGNAL INTERCONNECT	
STH 38	
VILLAGE OF MOUNT PLEASANT	
RACINE COUNTY	
INTERCONNECT STH 38 FROM EMMERTSEN RD TO CTH MM	
REGION CONTACT: M. COWAP DESIGNED BY: S. WAGNER REVISED BY:	PAGE 1 OF 16

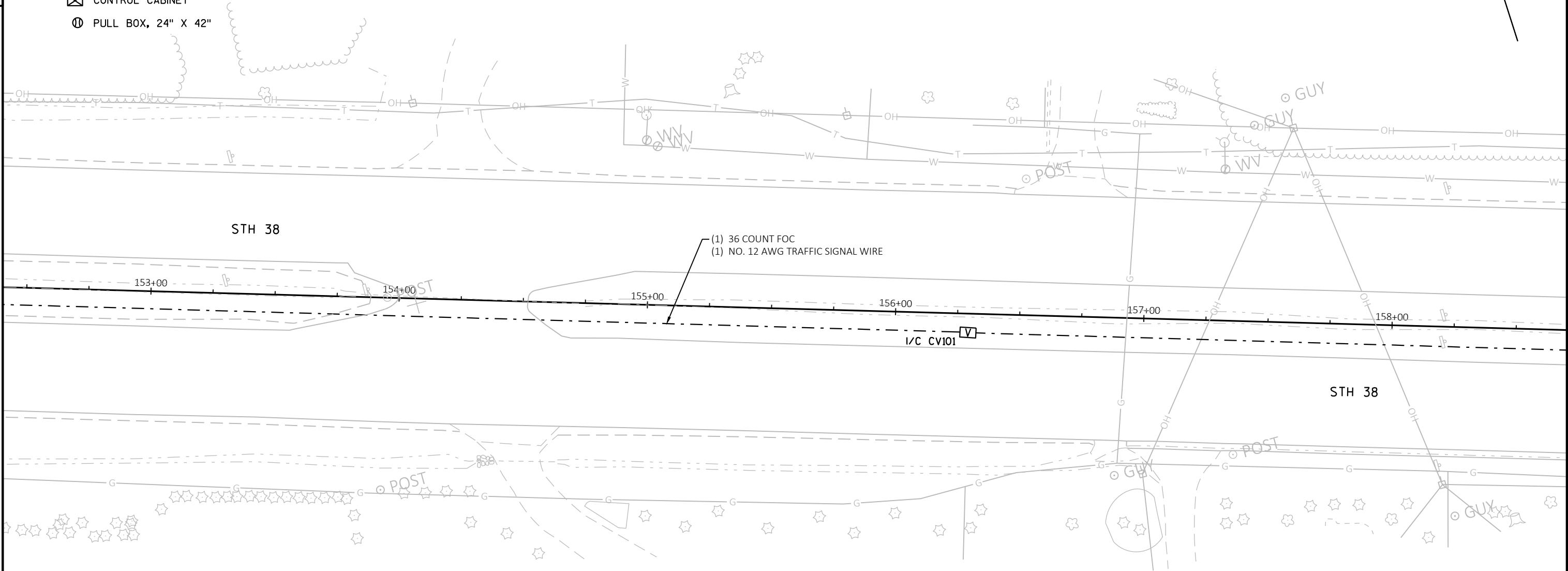
LEGEND

--- CONDUIT HDPE 2", 3-DUCT, UNLESS OTHERWISE NOTED

☐ COMMUNICATIONS VAULT

☒ CONTROL CABINET

⊙ PULL BOX, 24" X 42"



CONSTRUCTION NOTES:

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TRAFFIC SIGNAL INTERCONNECT
STH 38
VILLAGE OF MOUNT PLEASANT
RACINE COUNTY

INTERCONNECT STH 38 FROM EMMERTSEN RD TO CTH MM

REGION CONTACT: M. COWAP
DESIGNED BY: S. WAGNER
REVISED BY:

PAGE 3 OF 16

PROJECT NO: 2290-22-70

HWY: STH 38

COUNTY: RACINE

TRAFFIC SIGNAL INTERCONNECT PLAN

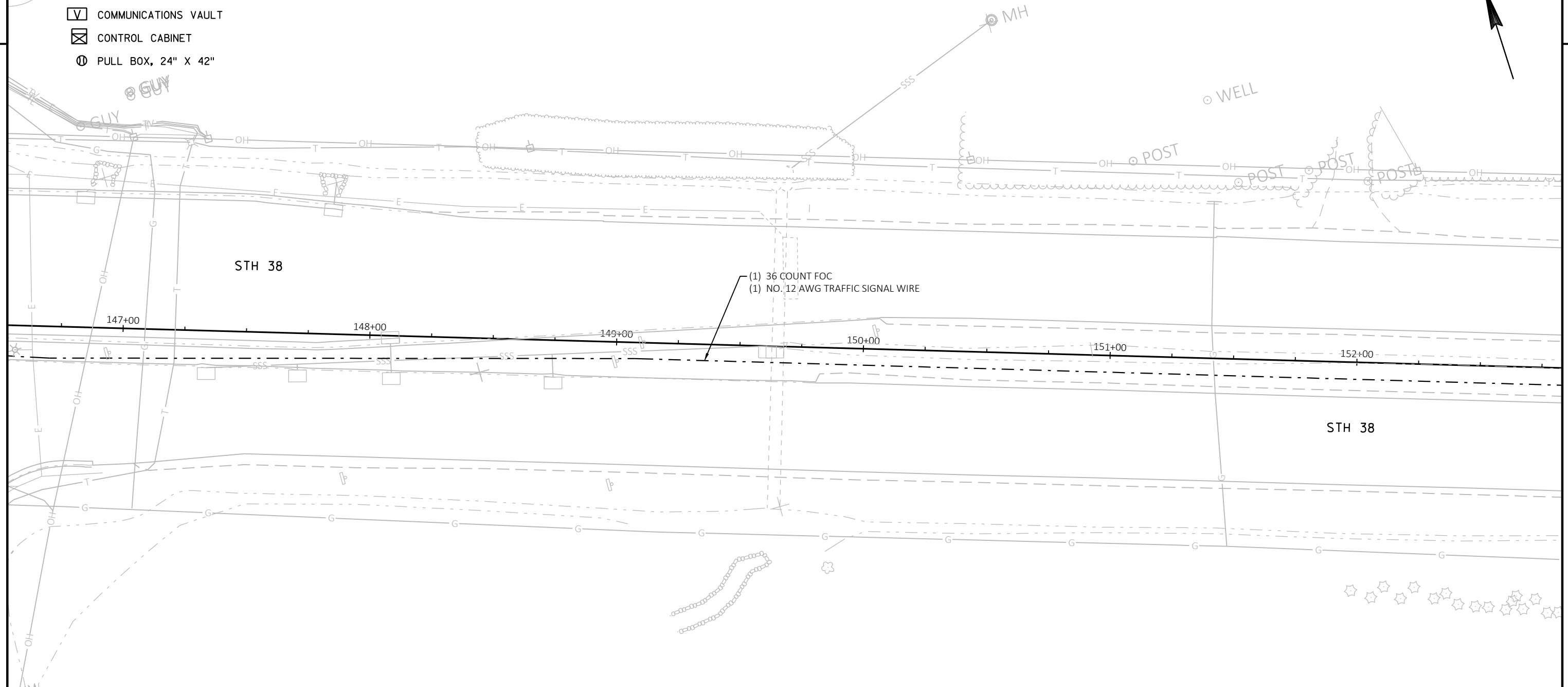
SHEET

PRE_87

E

LEGEND

- CONDUIT HDPE 2", 3-DUCT, UNLESS OTHERWISE NOTED
- ☐ COMMUNICATIONS VAULT
- ☒ CONTROL CABINET
- Ⓢ PULL BOX, 24" X 42"

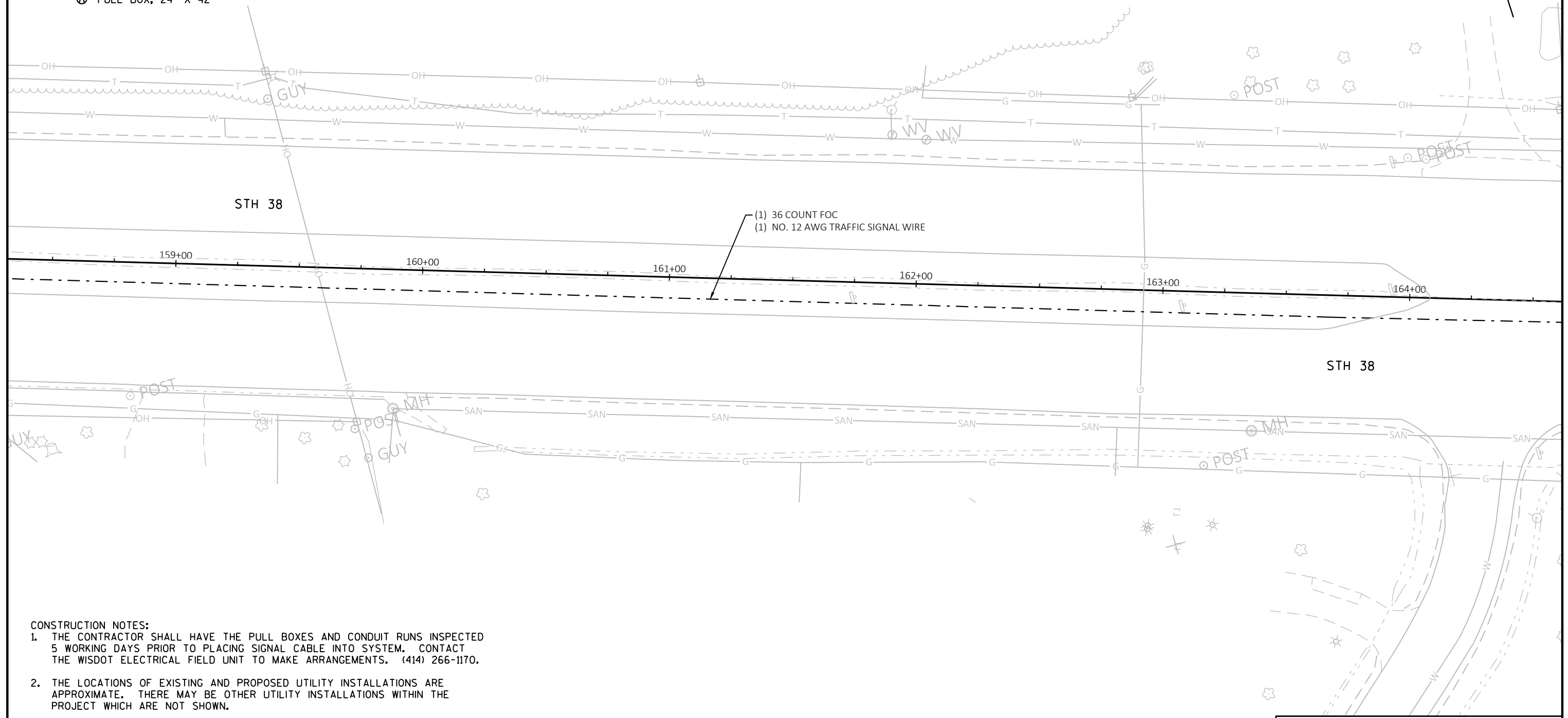


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STH 38	
VILLAGE OF MOUNT PLEASANT	
RACINE COUNTY	
INTERCONNECT STH 38 FROM EMMERTSEN RD TO CTH MM	
REGION CONTACT: M. COWAP DESIGNED BY: S. WAGNER REVISED BY:	PAGE 2 OF 16

LEGEND

- CONDUIT HDPE 2", 3-DUCT, UNLESS OTHERWISE NOTED
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STH 38	
VILLAGE OF MOUNT PLEASANT	
RACINE COUNTY	
INTERCONNECT STH 38 FROM EMMERTSEN RD TO CTH MM	
REGION CONTACT: M. COWAP	PAGE 4 OF 16
DESIGNED BY: S. WAGNER	
REVISED BY:	

PROJECT NO: 2290-22-70

HWY: STH 38

COUNTY: RACINE

TRAFFIC SIGNAL INTERCONNECT PLAN

SHEET

PRE_89

E

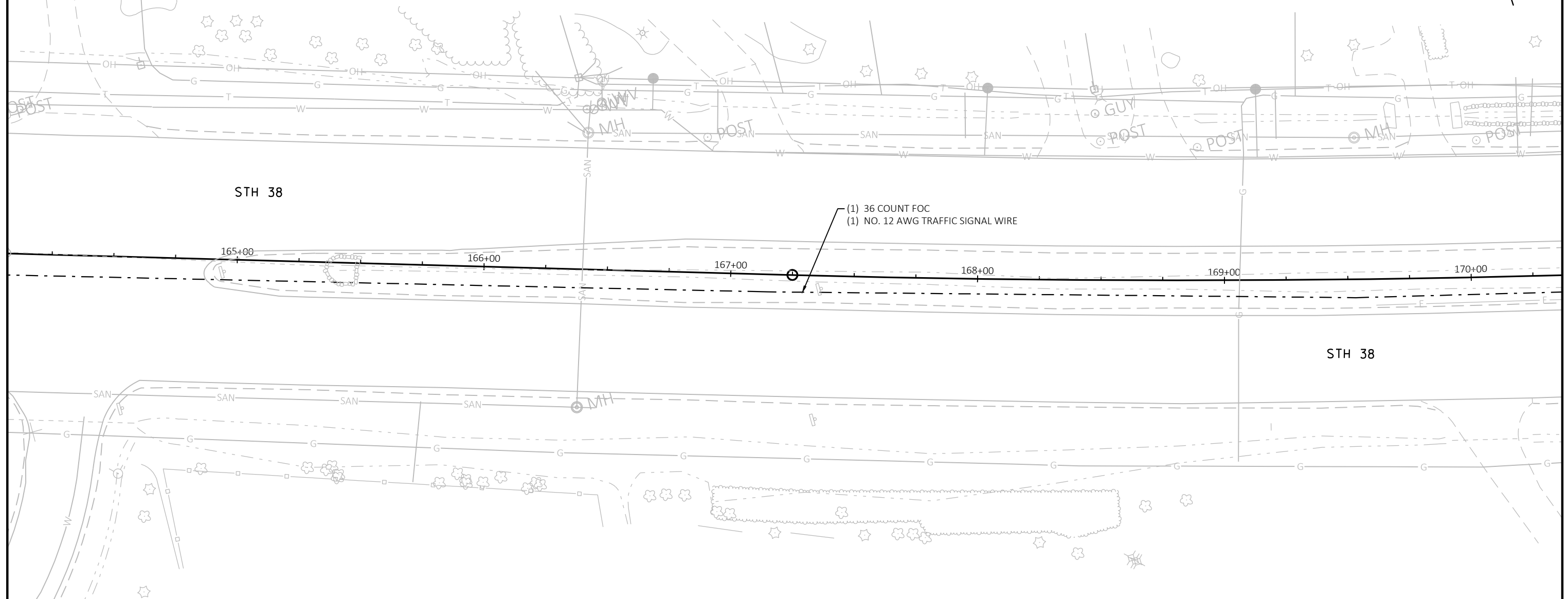
LEGEND

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☐ COMMUNICATIONS VAULT

☒ CONTROL CABINET

⓪ PULL BOX, 24" X 42"



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TRAFFIC SIGNAL INTERCONNECT
STH 38
VILLAGE OF MOUNT PLEASANT
RACINE COUNTY

INTERCONNECT STH 38 FROM EMMERTSEN RD TO CTH MM

REGION CONTACT: M. COWAP
DESIGNED BY: S. WAGNER
REVISED BY:

PAGE 5 OF 16

PROJECT NO: 2290-22-70

HWY: STH 38

COUNTY: RACINE

TRAFFIC SIGNAL INTERCONNECT PLAN

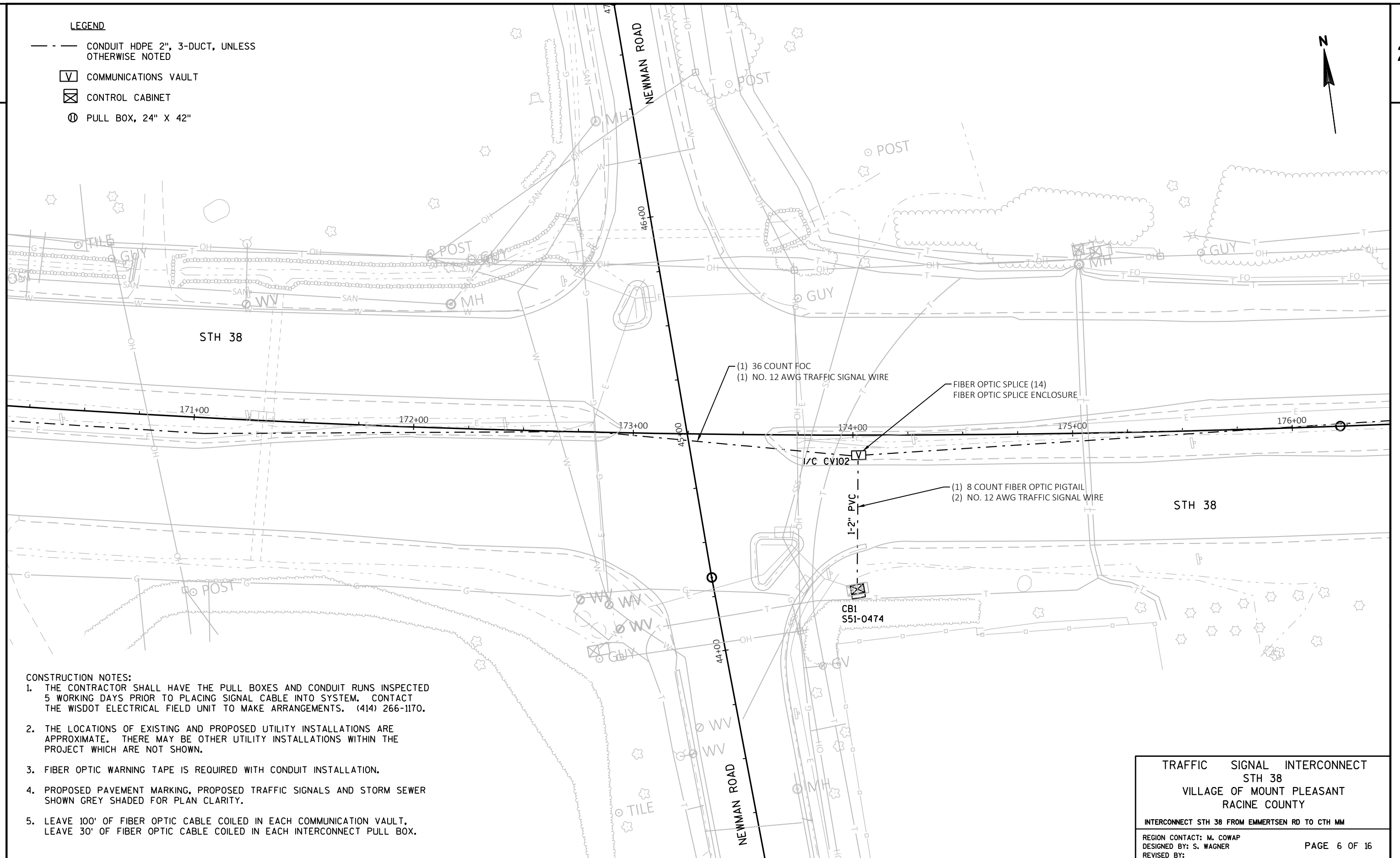
SHEET

PRE_90

E

LEGEND

- CONDUIT HDPE 2", 3-DUCT, UNLESS OTHERWISE NOTED
- ☐ COMMUNICATIONS VAULT
- ☒ CONTROL CABINET
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STH 38
VILLAGE OF MOUNT PLEASANT
RACINE COUNTY

INTERCONNECT STH 38 FROM EMMERTSEN RD TO CTH MM

REGION CONTACT: M. COWAP
DESIGNED BY: S. WAGNER
REVISED BY:

PAGE 6 OF 16

PROJECT NO: 2290-22-70

HWY: STH 38

COUNTY: RACINE

TRAFFIC SIGNAL INTERCONNECT PLAN

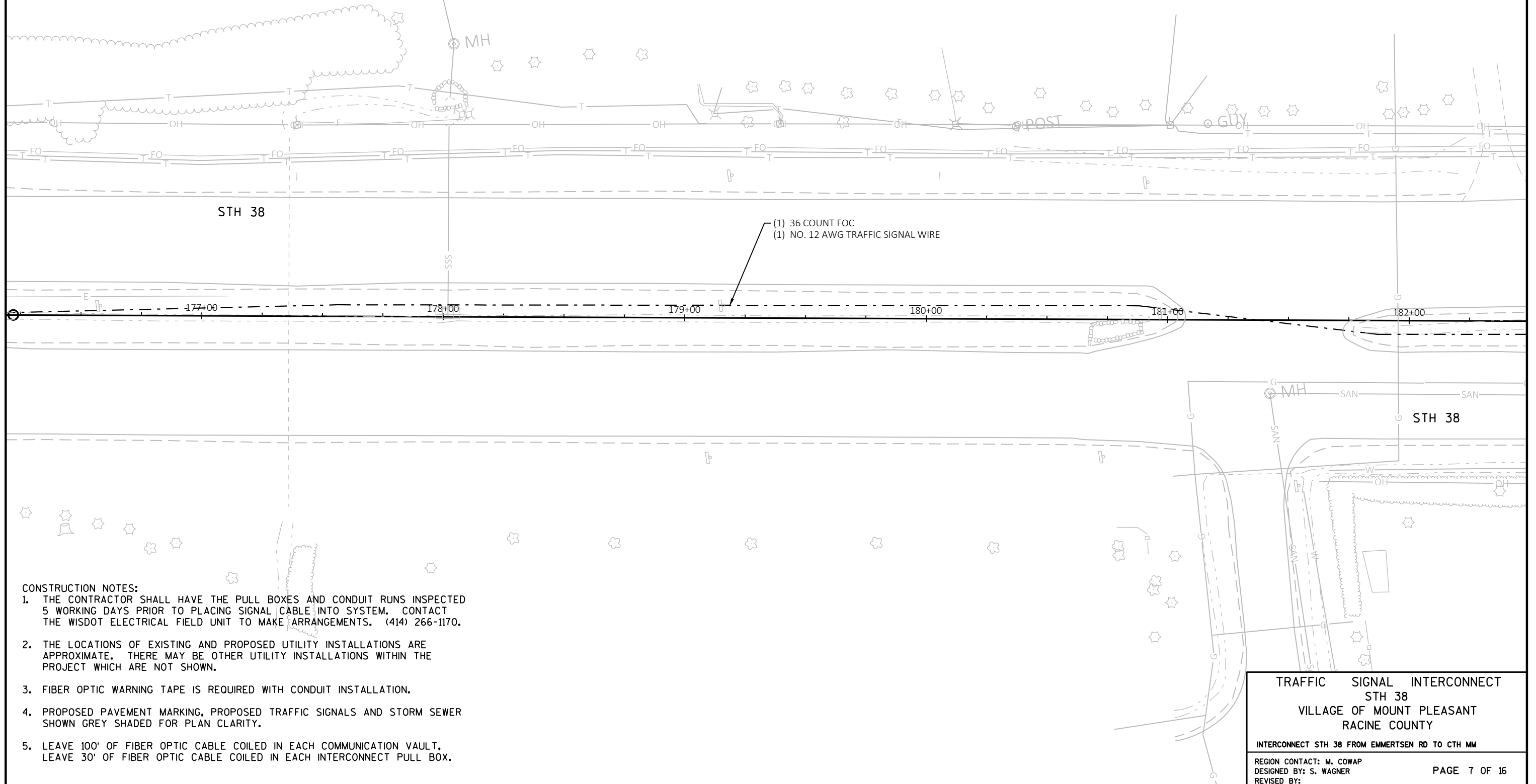
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PRE_91

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LEGEND

- CONDUIT HDPE 2", 3-DUCT, UNLESS OTHERWISE NOTED
- ☐ COMMUNICATIONS VAULT
- ☒ CONTROL CABINET
- Ⓢ PULL BOX, 24" X 42"



PROJECT NO: 2290-22-70

HWY: STH 38

COUNTY: RACINE

TRAFFIC SIGNAL INTERCONNECT PLAN

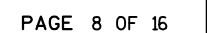
SHEET

PRE_92

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2

⑩ PULL BOX, 24" X 42"



11

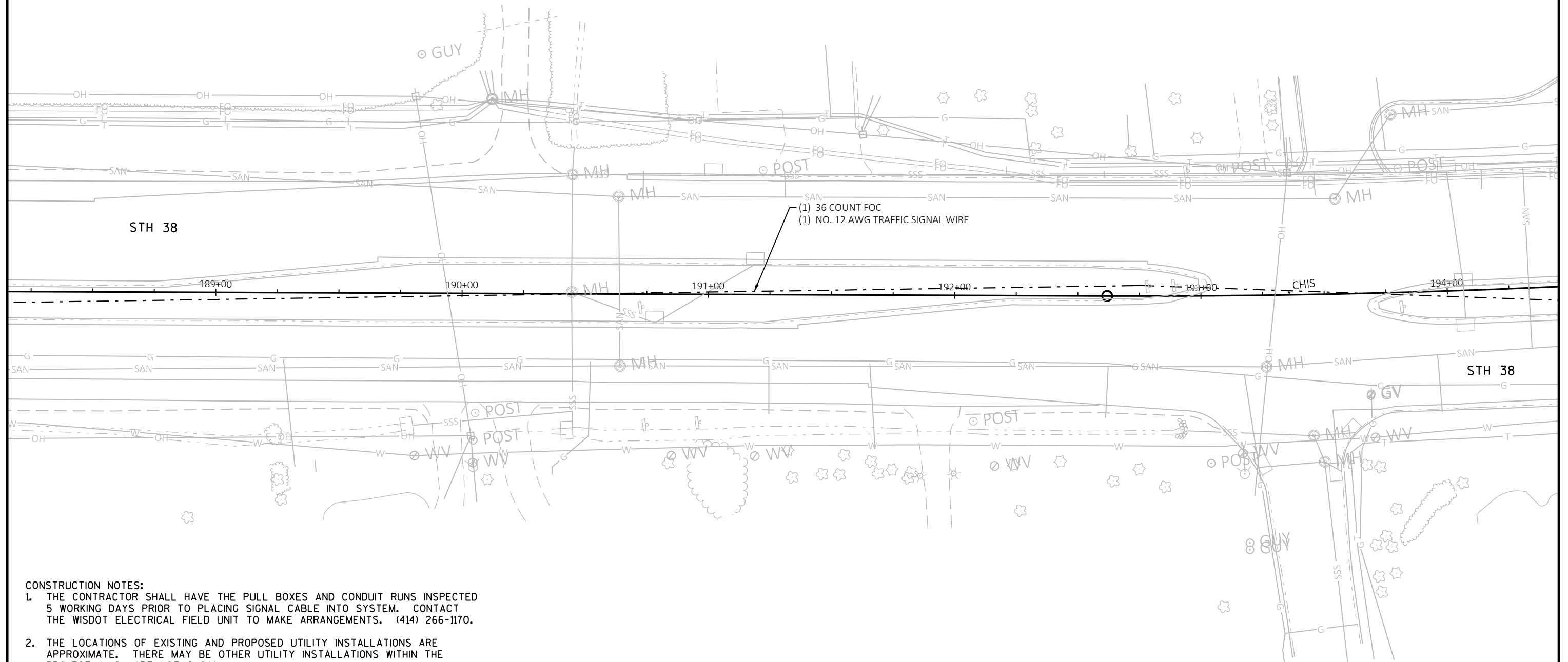
LEGEND

— — — CONDUIT HDPE 2", 3-DUCT, UNLESS
OTHERWISE NOTED

☐ COMMUNICATIONS VAULT

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STH 38
VILLAGE OF MOUNT PLEASANT
RACINE COUNTY

INTERCONNECT STH 38 FROM EMMERTSEN RD TO CTH MM

REGION CONTACT: M. COWAP
DESIGNED BY: S. WAGNER
REVISED BY:

PAGE 9 OF 16

PROJECT NO: 2290-22-70

HWY: STH 38

COUNTY: RACINE

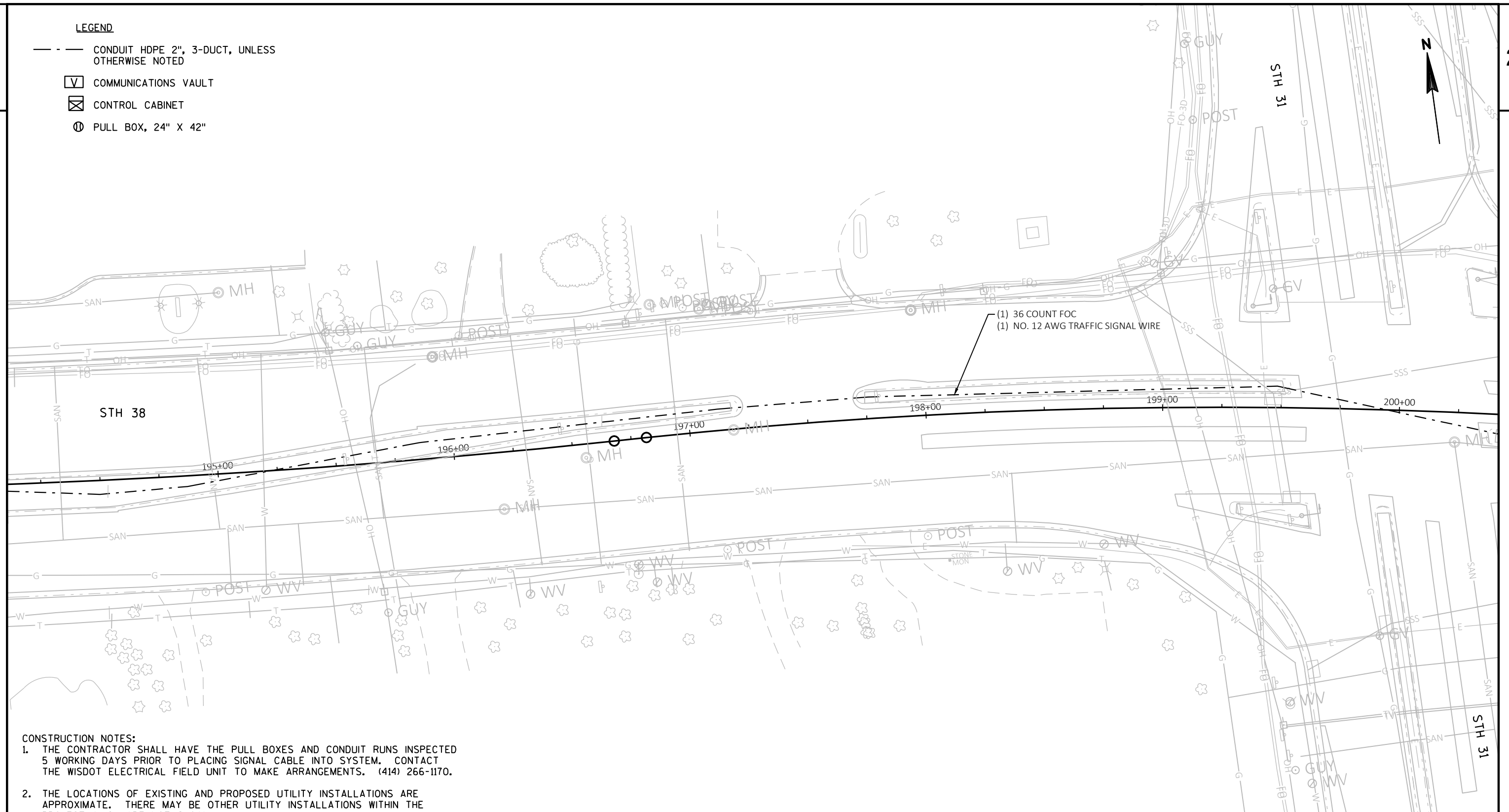
TRAFFIC SIGNAL INTERCONNECT PLAN

SHEET

PRE_94

E

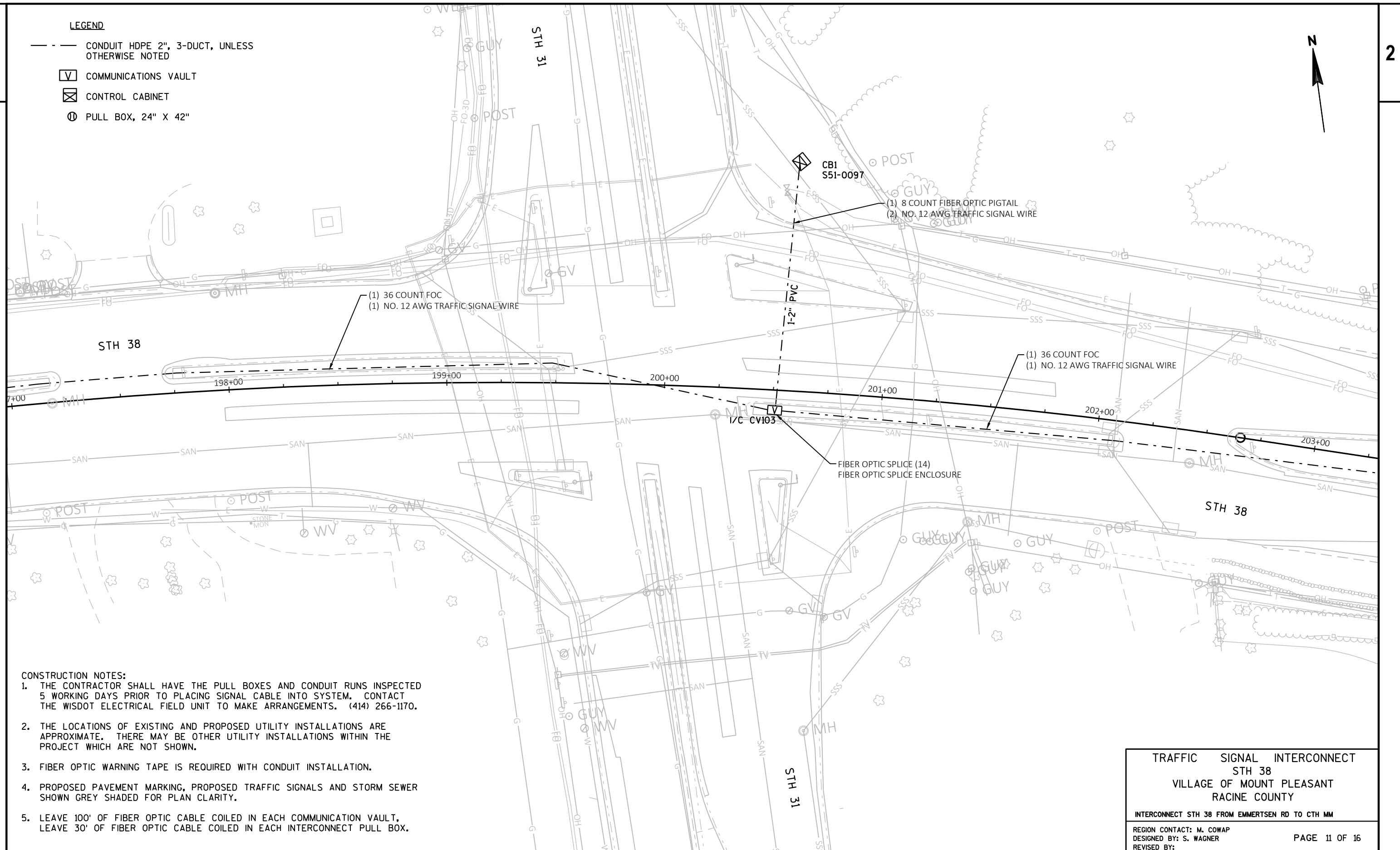
⑪ PULL BOX, 24" X 42"



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LEAVE 30' OF FIBER OPTIC CABLE COILED IN EACH INTERCONNECT PULL BOX.

PAGE 10 OF 16

⑪ PULL BOX, 24" X 42"



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TRAFFIC SIGNAL INTERCONNECT
 STH 38
 VILLAGE OF MOUNT PLEASANT
 RACINE COUNTY

INTERCONNECT STH 38 FROM EMMERTSEN RD TO CTH MM

REGION CONTACT: M. COWAP
DESIGNED BY: S. WAGNER
REVISED BY:

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PROJECT NO:	2290-22-70
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HWY: STH 38

COUNTY: RACINE

TRAFFIC SIGNAL INTERCONNECT PLAN

SHEET

PRE_96

FILE NAME : N:\PDS\C3D\CAD\22902200\SIG\INTERCONNECT\024201_SP_16.DWG
LAYOUT NAME - 024211_SP

PLOT DATE : 2/19/2020 2:58 PM

PLOT BY : WAGNER, SCOTT H

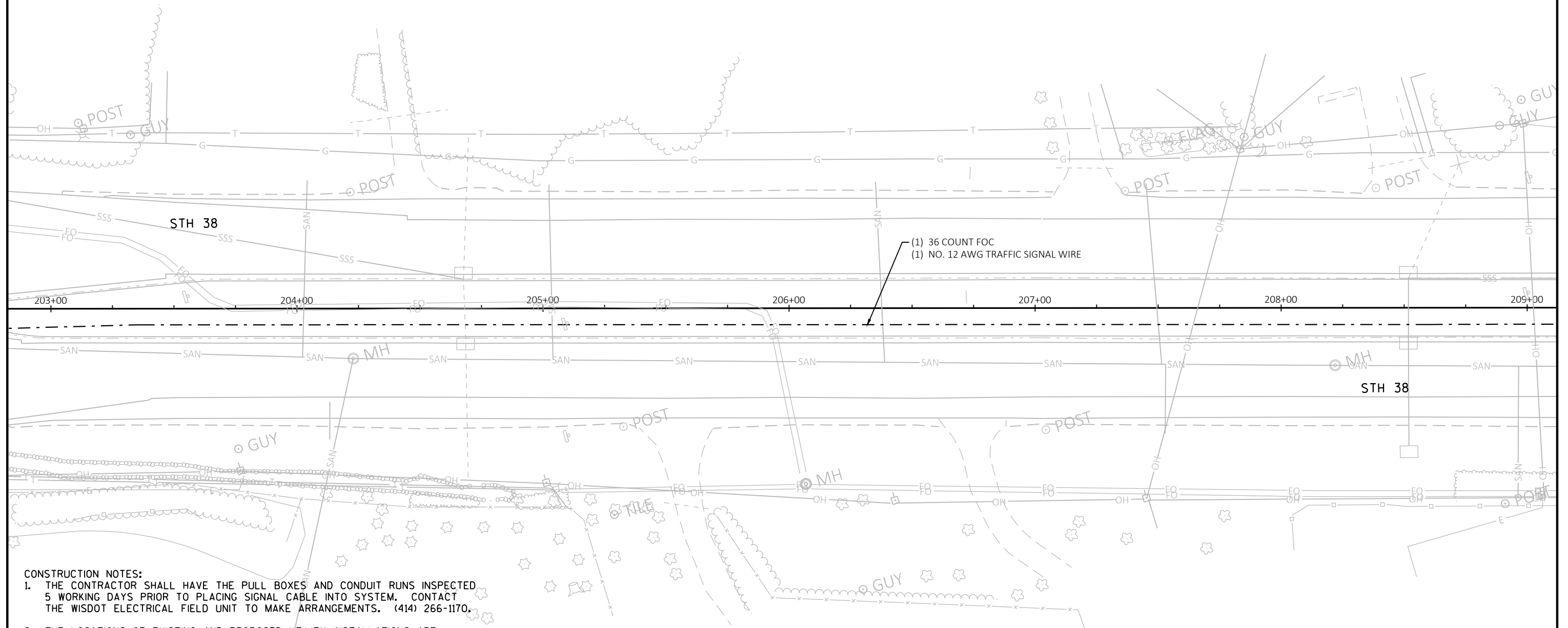
PLOT NAME :

PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

LEGEND

- — — CONDUIT HDPE 2", 3-DUCT, UNLESS OTHERWISE NOTED
- ☐ COMMUNICATIONS VAULT
- ☒ CONTROL CABINET
- Ⓢ PULL BOX, 24" X 42"



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STH 38
VILLAGE OF MOUNT PLEASANT
RACINE COUNTY

INTERCONNECT STH 38 FROM EMMERTSEN RD TO CTH MM

REGION CONTACT: M. COWAP
DESIGNED BY: S. WAGNER
REVISED BY:

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PROJECT NO: 2290-22-70

HWY: STH 38

COUNTY: RACINE

TRAFFIC SIGNAL INTERCONNECT PLAN

SHEET

PRE_97

E

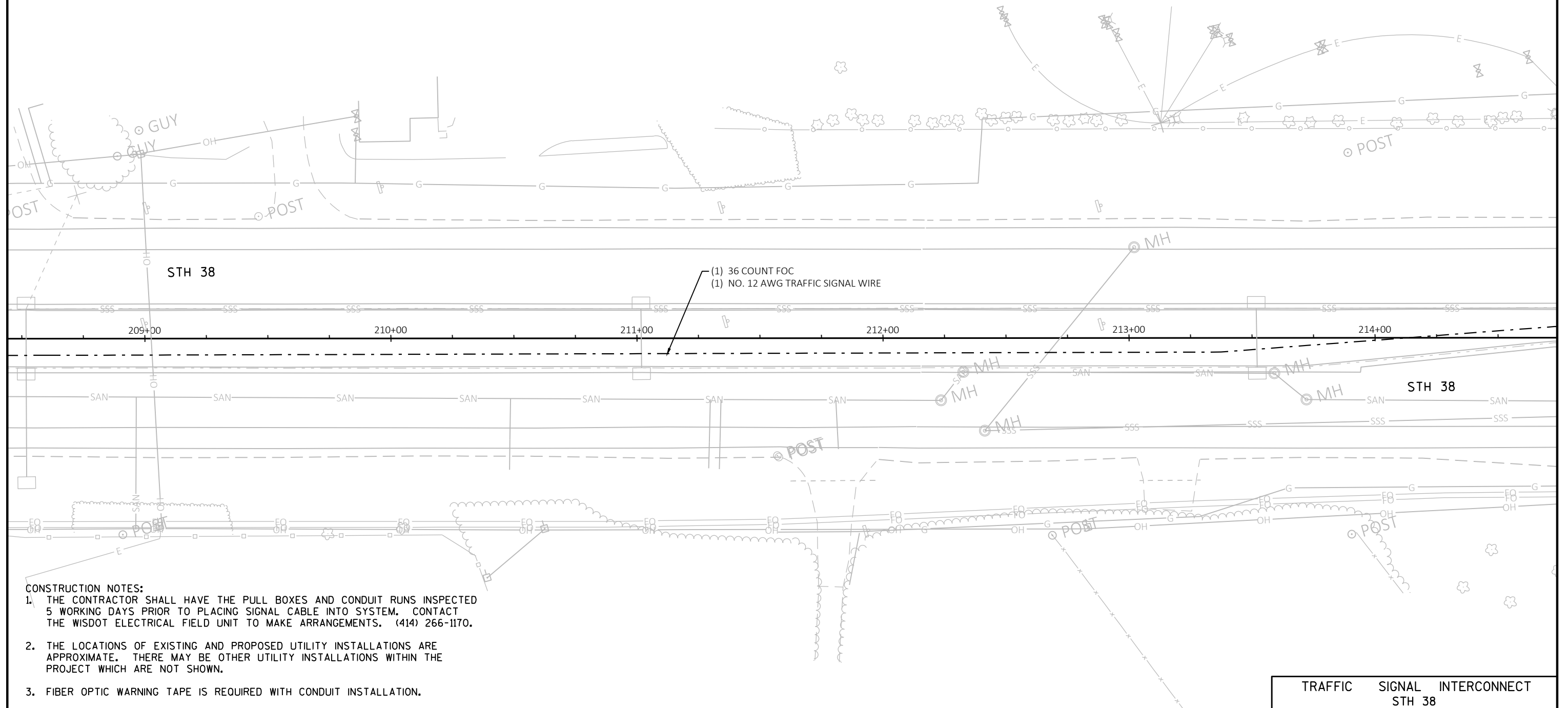
LEGEND

— — — CONDUIT HDPE 2", 3-DUCT, UNLESS
OTHERWISE NOTED

☐ COMMUNICATIONS VAULT

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TRAFFIC SIGNAL INTERCONNECT
STH 38
VILLAGE OF MOUNT PLEASANT
RACINE COUNTY

INTERCONNECT STH 38 FROM EMMERTSEN RD TO CTH MM

REGION CONTACT: M. COWAP
DESIGNED BY: S. WAGNER
REVISED BY:

PAGE 13 OF 16

PROJECT NO: 2290-22-70

HWY: STH 38

COUNTY: RACINE

TRAFFIC SIGNAL INTERCONNECT PLAN

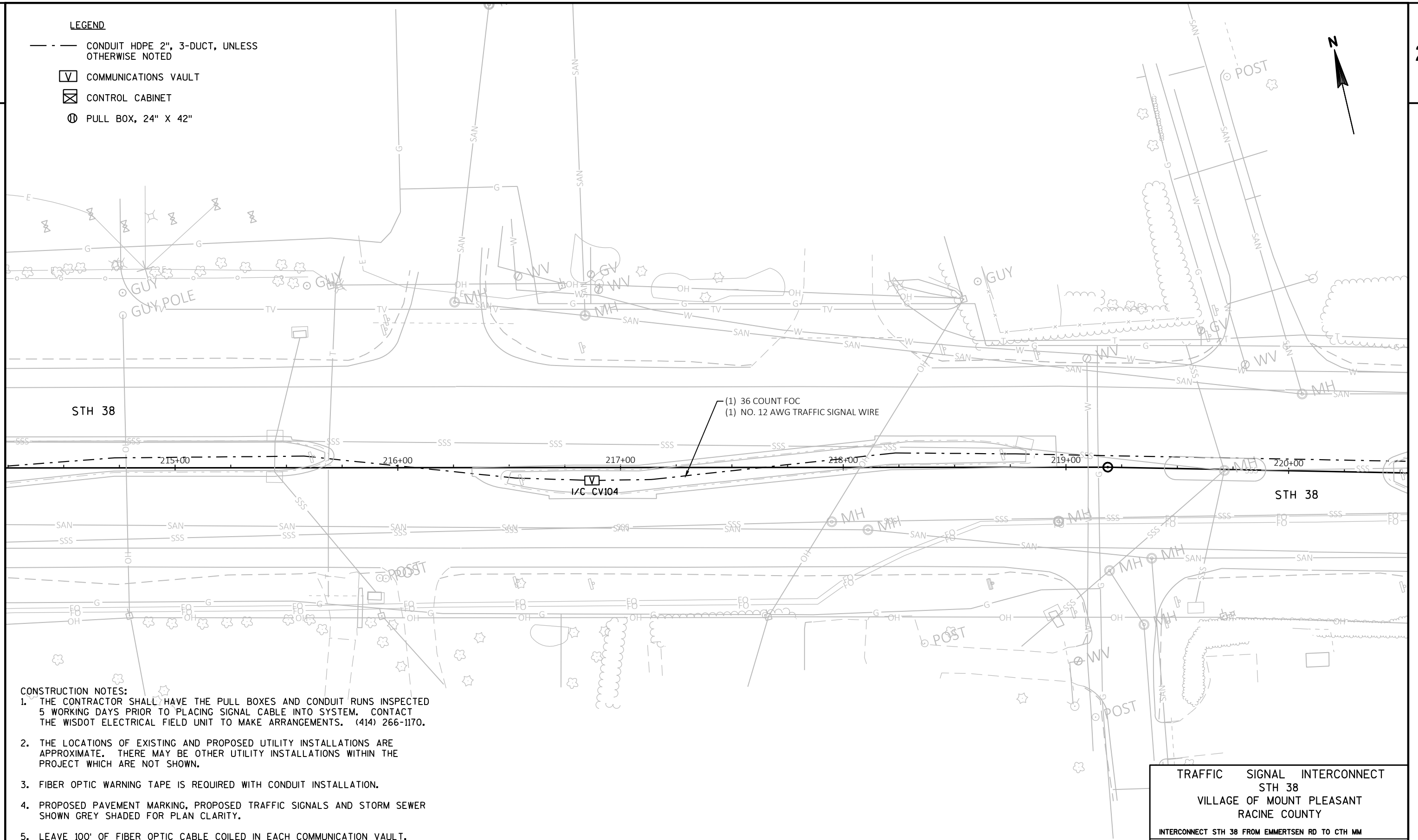
SHEET

PRE_98

E

LEGEND

- CONDUIT HDPE 2", 3-DUCT, UNLESS OTHERWISE NOTED
- ☐ COMMUNICATIONS VAULT
- ☒ CONTROL CABINET
- ⊕ PULL BOX, 24" X 42"



CONSTRUCTION NOTES:

1. THE CONTRACTOR SHALL HAVE THE PULL BOXES AND CONDUIT RUNS INSPECTED 5 WORKING DAYS PRIOR TO PLACING SIGNAL CABLE INTO SYSTEM. CONTACT THE WISDOT ELECTRICAL FIELD UNIT TO MAKE ARRANGEMENTS. (414) 266-1170.
2. THE LOCATIONS OF EXISTING AND PROPOSED UTILITY INSTALLATIONS ARE APPROXIMATE. THERE MAY BE OTHER UTILITY INSTALLATIONS WITHIN THE PROJECT WHICH ARE NOT SHOWN.
3. FIBER OPTIC WARNING TAPE IS REQUIRED WITH CONDUIT INSTALLATION.
4. PROPOSED PAVEMENT MARKING, PROPOSED TRAFFIC SIGNALS AND STORM SEWER SHOWN GREY SHADED FOR PLAN CLARITY.
5. LEAVE 100' OF FIBER OPTIC CABLE COILED IN EACH COMMUNICATION VAULT, LEAVE 30' OF FIBER OPTIC CABLE COILED IN EACH INTERCONNECT PULL BOX.

TRAFFIC SIGNAL INTERCONNECT
STH 38
VILLAGE OF MOUNT PLEASANT
RACINE COUNTY

INTERCONNECT STH 38 FROM EMMERTSEN RD TO CTH MM

REGION CONTACT: M. COWAP
DESIGNED BY: S. WAGNER
REVISED BY:

PAGE 14 OF 16

PROJECT NO: 2290-22-70

HWY: STH 38

COUNTY: RACINE

TRAFFIC SIGNAL INTERCONNECT PLAN

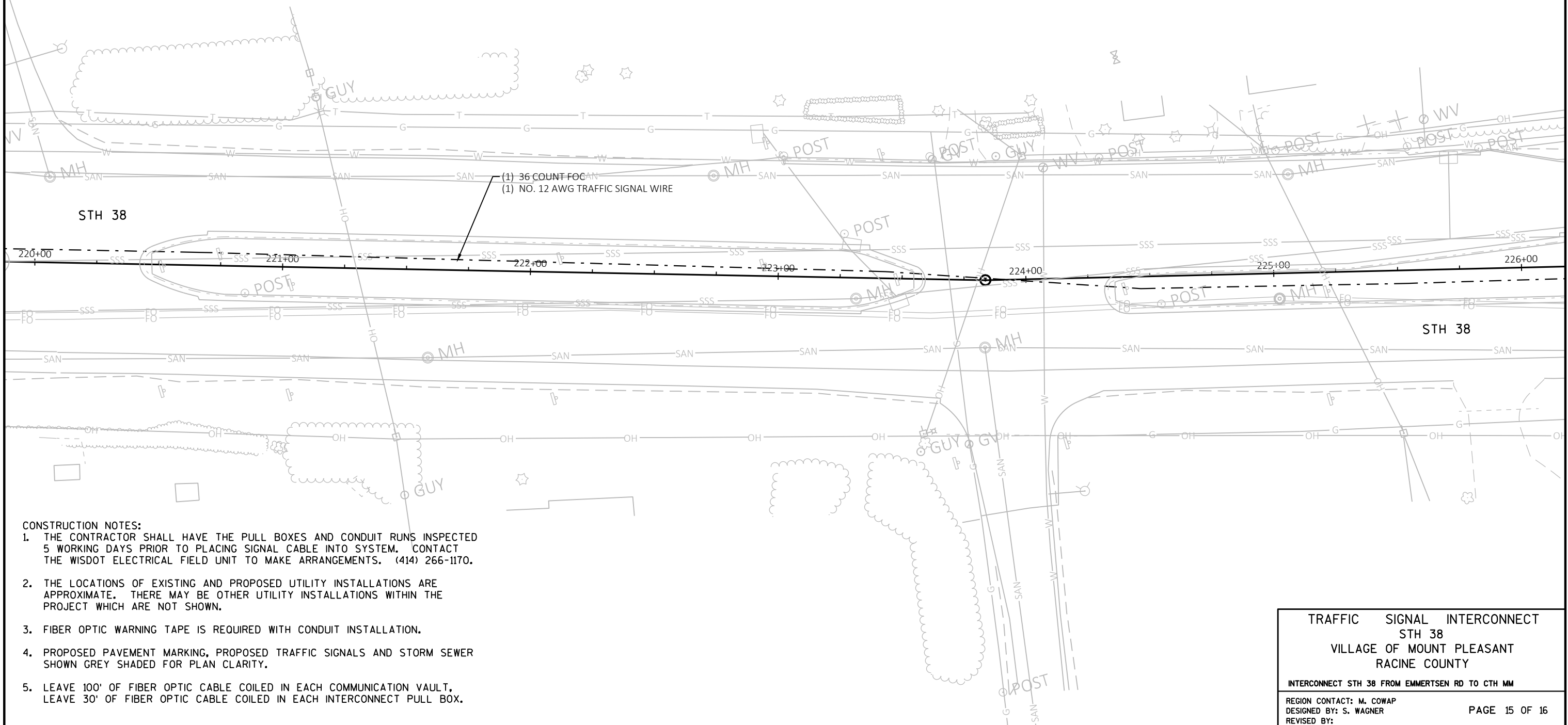
SHEET

PRE_99

E

LEGEND

- CONDUIT HDPE 2", 3-DUCT, UNLESS OTHERWISE NOTED
- ☐ COMMUNICATIONS VAULT
- ☒ CONTROL CABINET
- Ⓢ PULL BOX, 24" X 42"



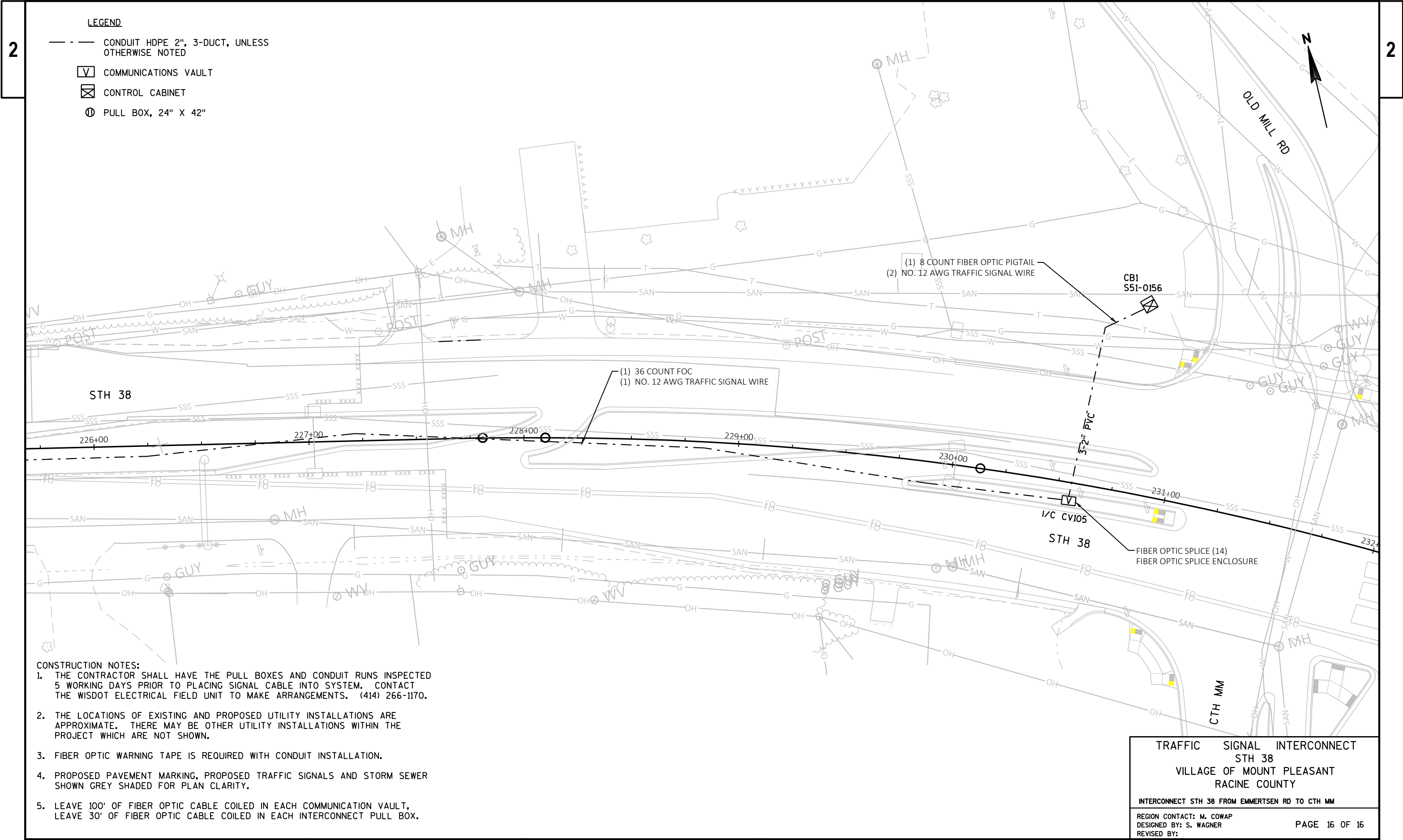
CONSTRUCTION NOTES:

1. THE CONTRACTOR SHALL HAVE THE PULL BOXES AND CONDUIT RUNS INSPECTED 5 WORKING DAYS PRIOR TO PLACING SIGNAL CABLE INTO SYSTEM. CONTACT THE WISDOT ELECTRICAL FIELD UNIT TO MAKE ARRANGEMENTS. (414) 266-1170.
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TRAFFIC SIGNAL INTERCONNECT
STH 38
VILLAGE OF MOUNT PLEASANT
RACINE COUNTY

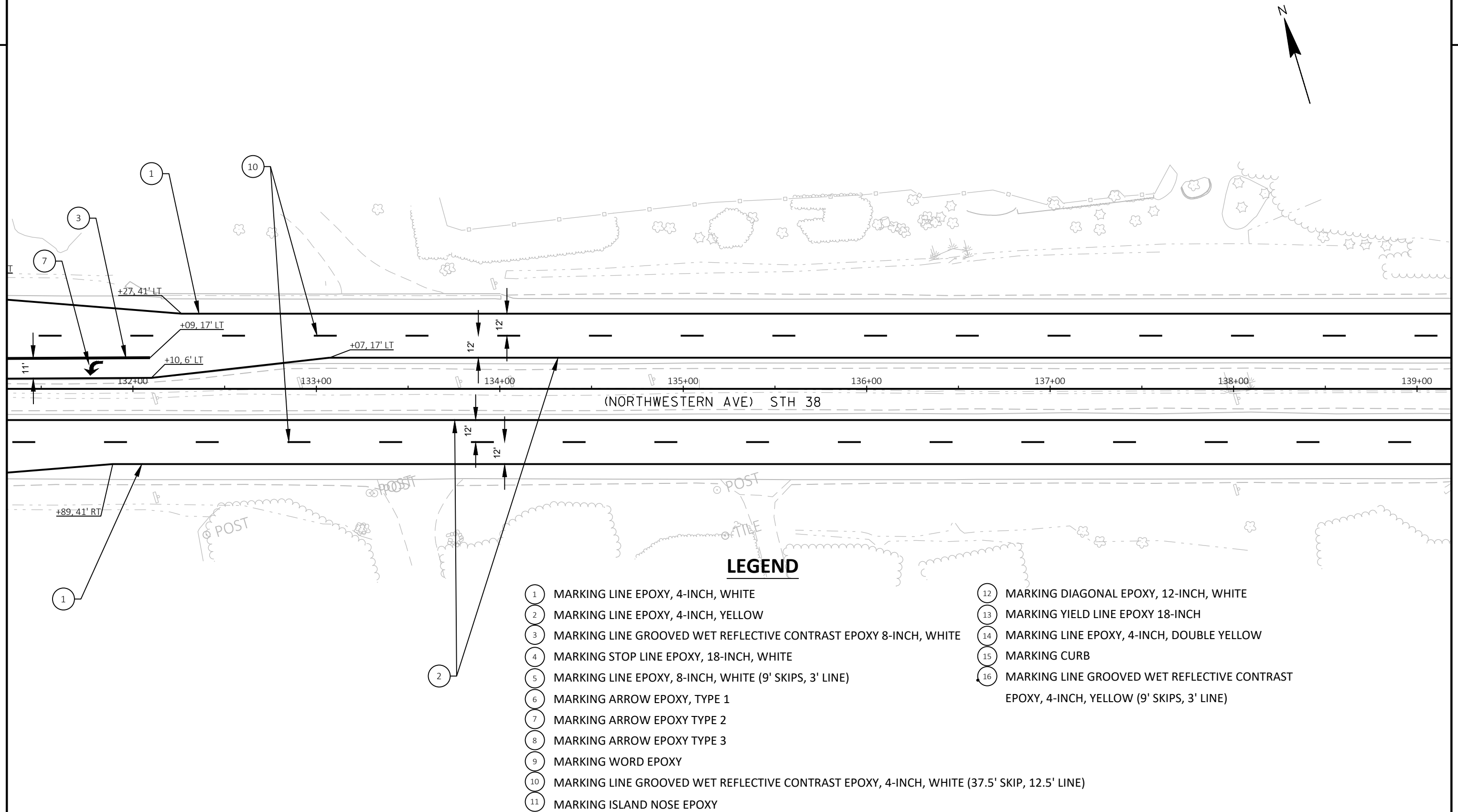
INTERCONNECT STH 38 FROM EMMERTSEN RD TO CTH MM

REGION CONTACT: M. COWAP
DESIGNED BY: S. WAGNER
REVISED BY:



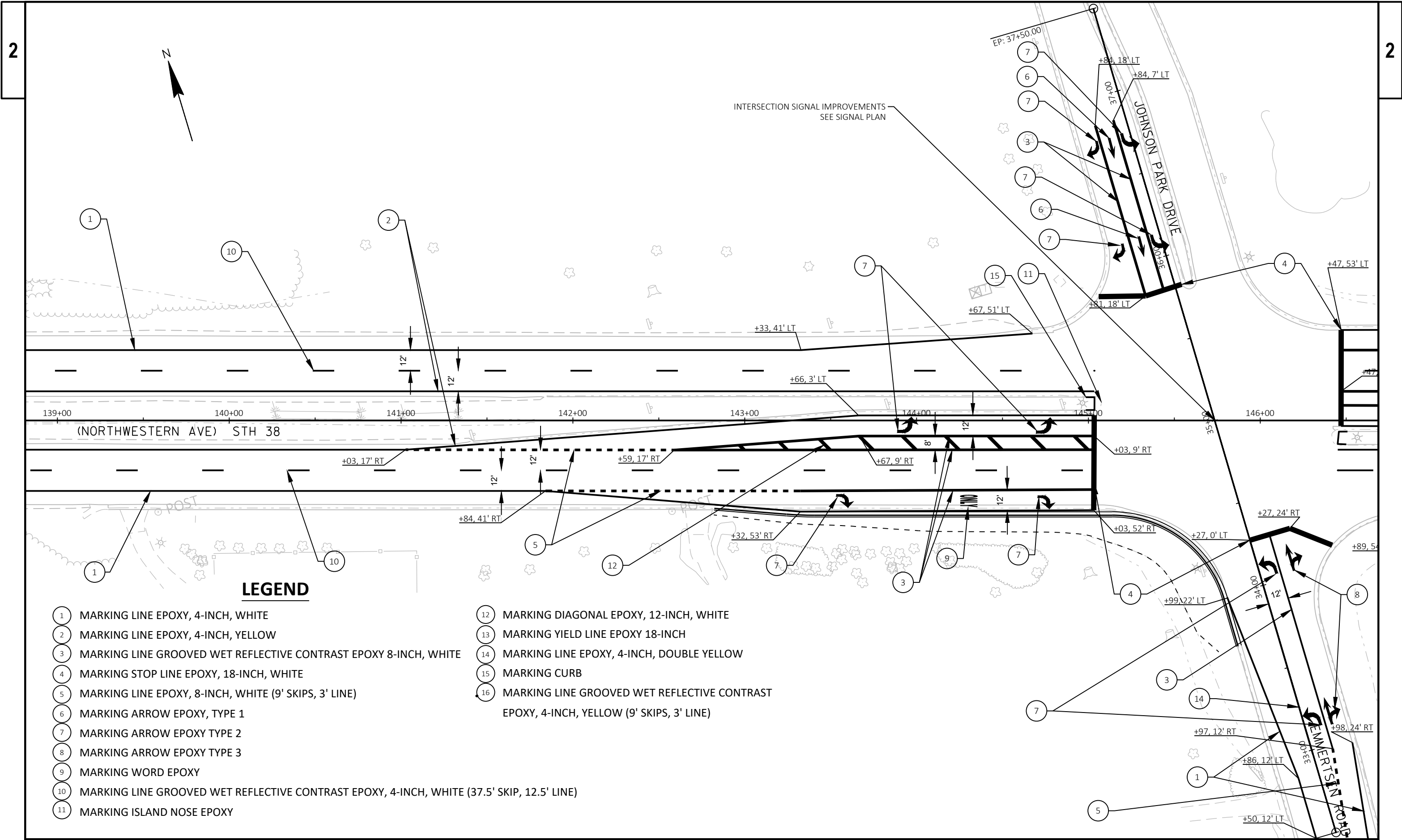
- CONSTRUCTION NOTES:
1. THE CONTRACTOR SHALL HAVE THE PULL BOXES AND CONDUIT RUNS INSPECTED 5 WORKING DAYS PRIOR TO PLACING SIGNAL CABLE INTO SYSTEM. CONTACT THE WISDOT ELECTRICAL FIELD UNIT TO MAKE ARRANGEMENTS. (414) 266-1170.
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TRAFFIC SIGNAL INTERCONNECT	
STH 38	
VILLAGE OF MOUNT PLEASANT	
RACINE COUNTY	
INTERCONNECT STH 38 FROM EMMERTSEN RD TO CTH MM	
REGION CONTACT: M. COWAP	PAGE 16 OF 16
DESIGNED BY: S. WAGNER	
REVISED BY:	



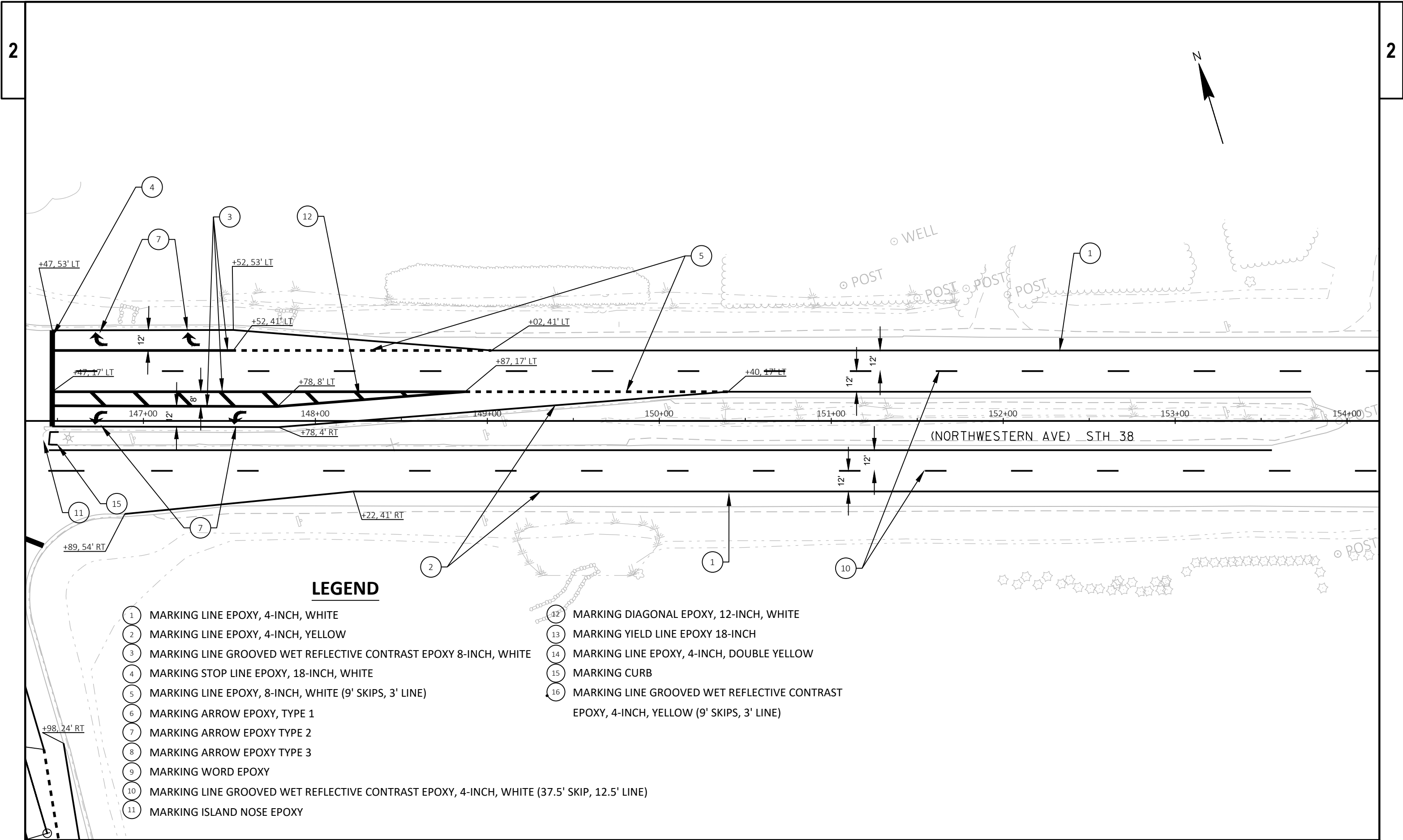
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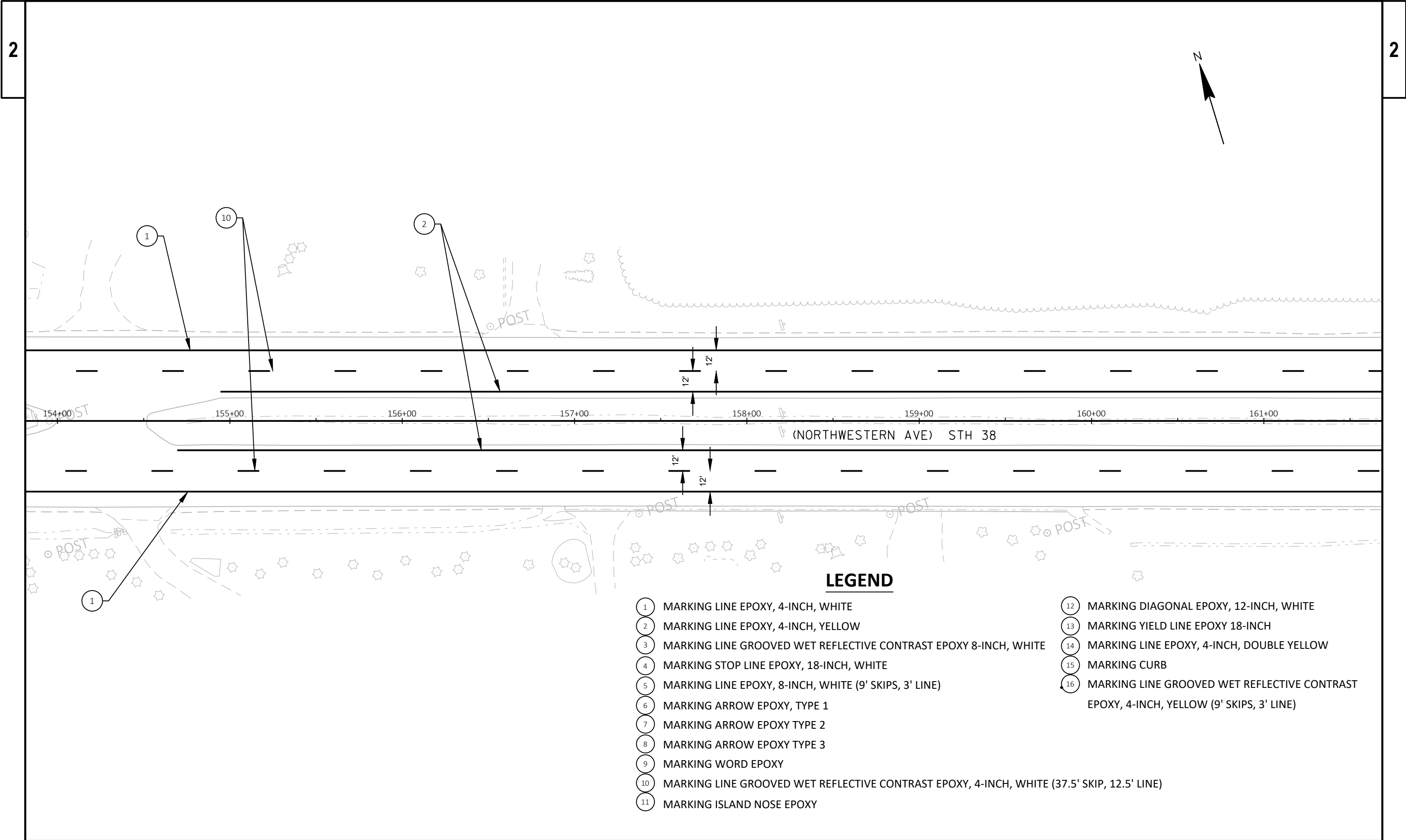
- | | |
|---|---|
| 1 MARKING LINE EPOXY, 4-INCH, WHITE | 12 MARKING DIAGONAL EPOXY, 12-INCH, WHITE |
| 2 MARKING LINE EPOXY, 4-INCH, YELLOW | 13 MARKING YIELD LINE EPOXY 18-INCH |
| 3 MARKING LINE GROOVED WET REFLECTIVE CONTRAST EPOXY 8-INCH, WHITE | 14 MARKING LINE EPOXY, 4-INCH, DOUBLE YELLOW |
| 4 MARKING STOP LINE EPOXY, 18-INCH, WHITE | 15 MARKING CURB |
| 5 MARKING LINE EPOXY, 8-INCH, WHITE (9' SKIPS, 3' LINE) | 16 MARKING LINE GROOVED WET REFLECTIVE CONTRAST EPOXY, 4-INCH, YELLOW (9' SKIPS, 3' LINE) |
| 6 MARKING ARROW EPOXY, TYPE 1 | |
| 7 MARKING ARROW EPOXY TYPE 2 | |
| 8 MARKING ARROW EPOXY TYPE 3 | |
| 9 MARKING WORD EPOXY | |
| 10 MARKING LINE GROOVED WET REFLECTIVE CONTRAST EPOXY, 4-INCH, WHITE (37.5' SKIP, 12.5' LINE) | |
| 11 MARKING ISLAND NOSE EPOXY | |



LEGEND

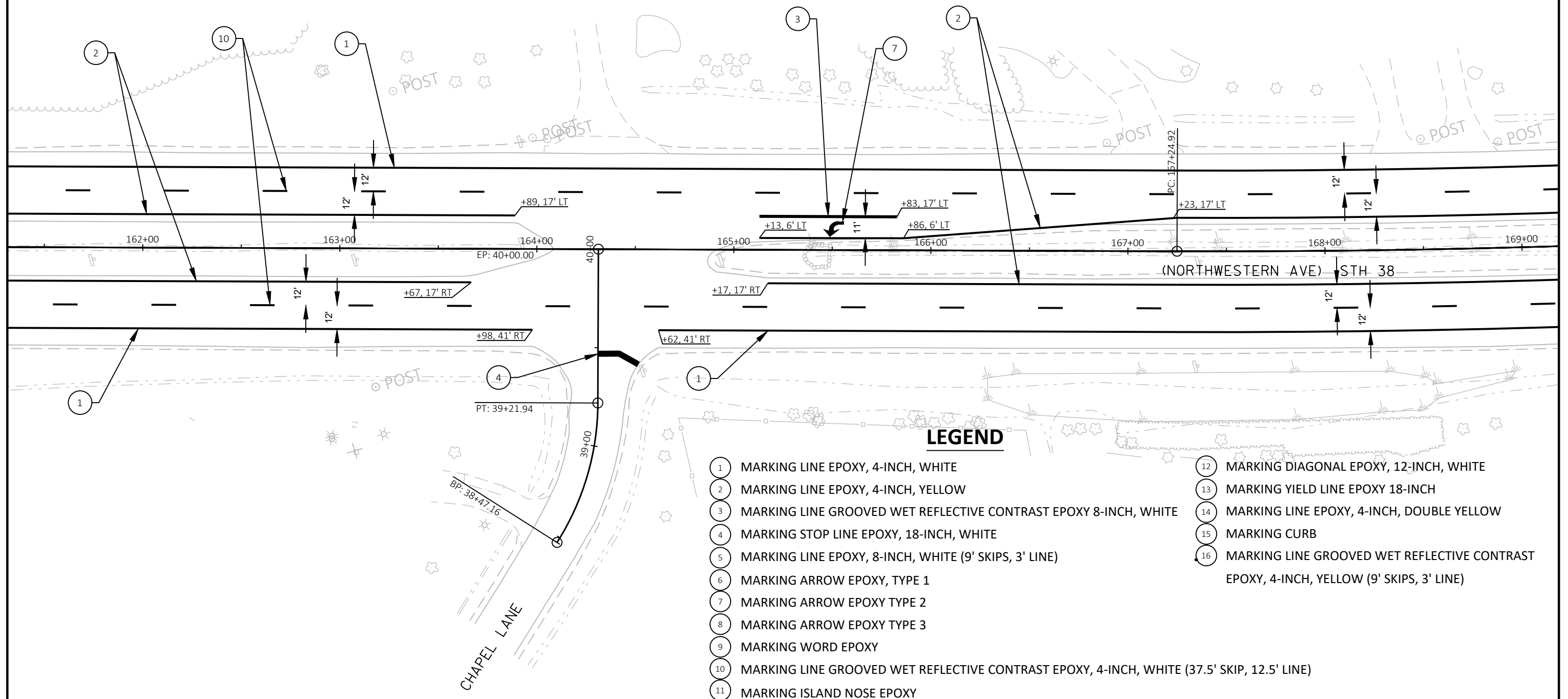
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|---|---|
| 1 MARKING LINE EPOXY, 4-INCH, WHITE | 12 MARKING DIAGONAL EPOXY, 12-INCH, WHITE |
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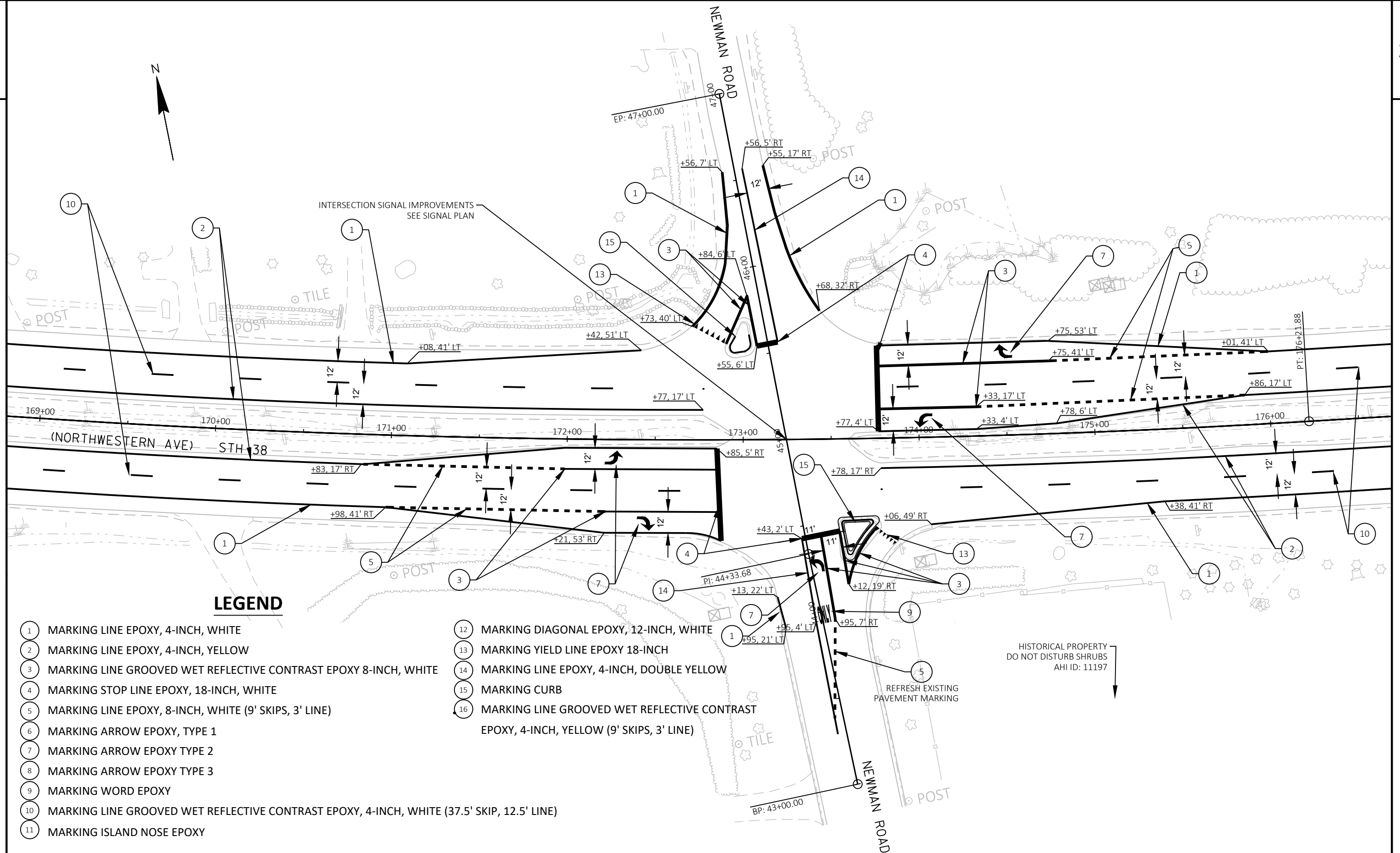


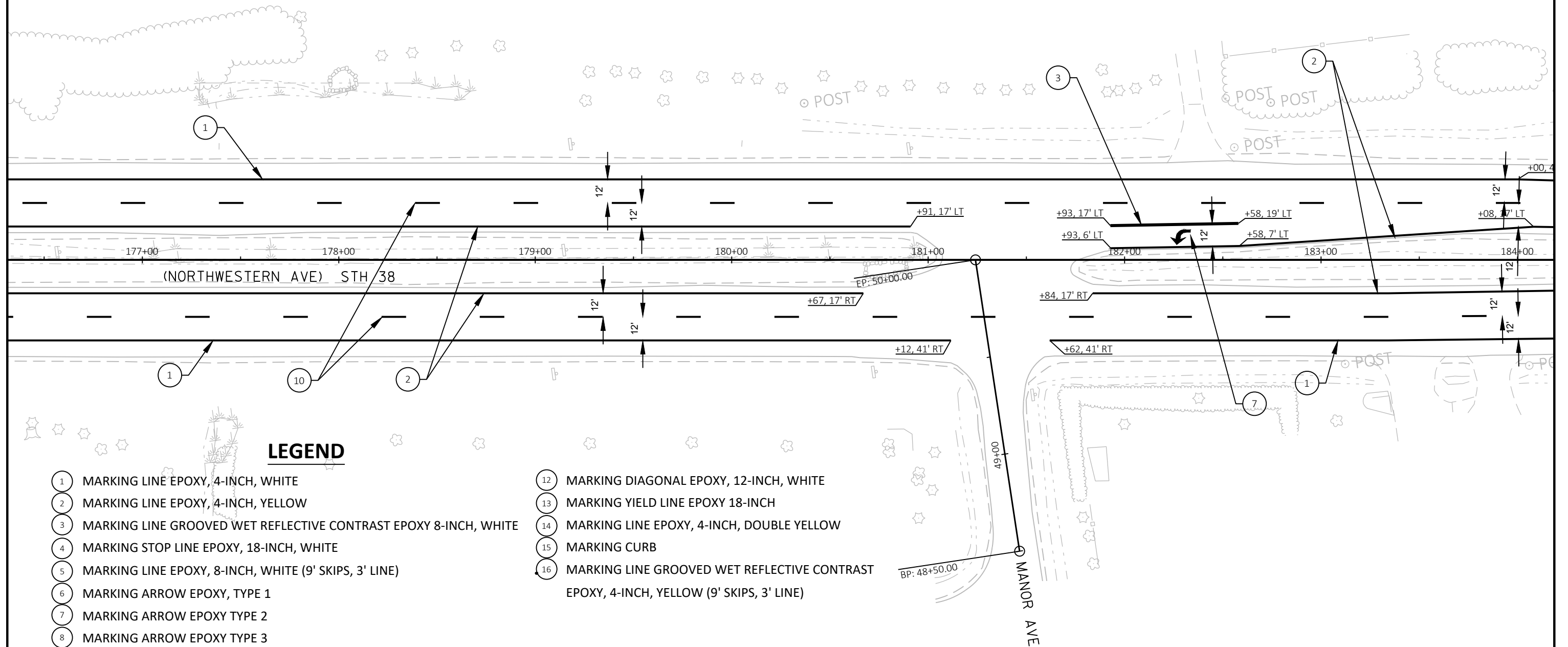


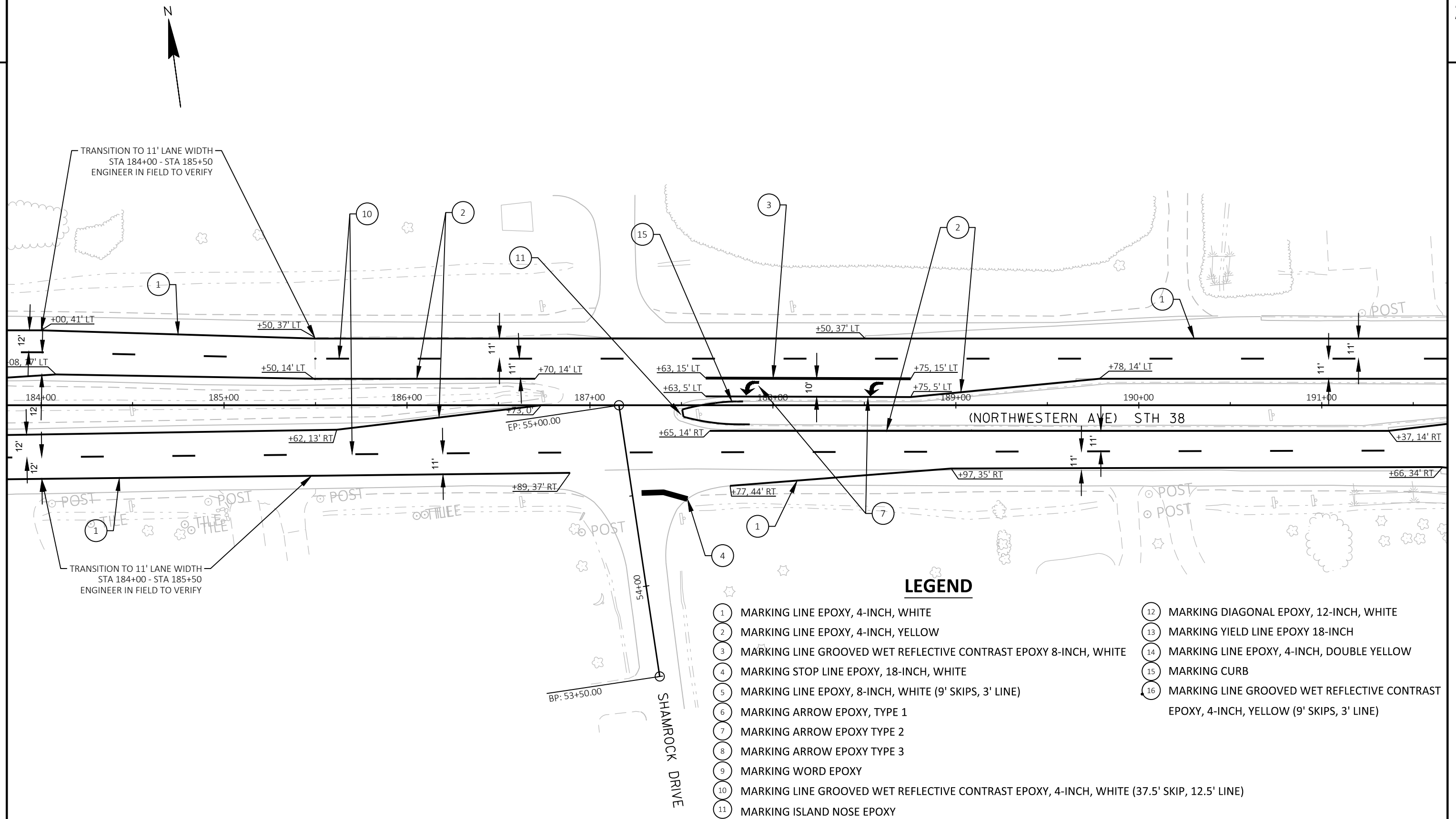
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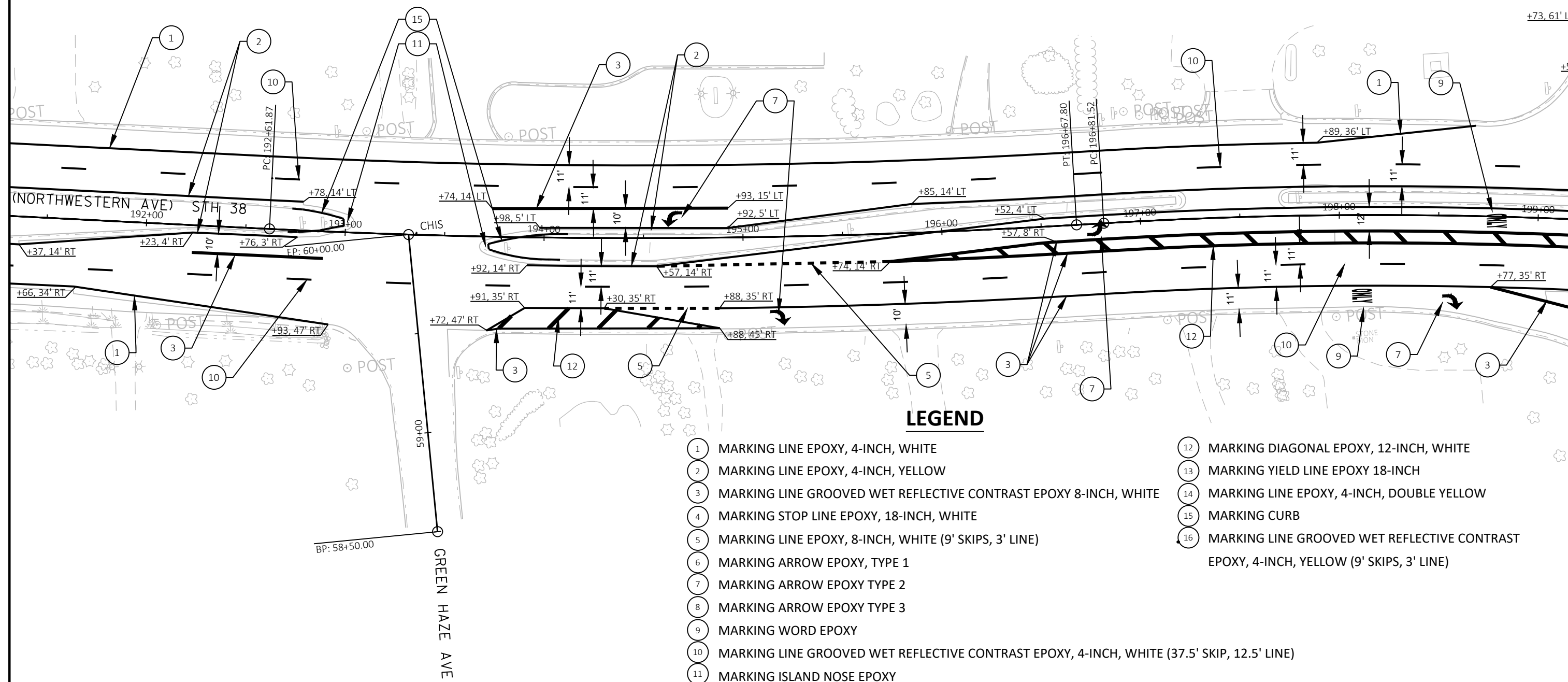
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|----|--|----|--|
| 1 | MARKING LINE EPOXY, 4-INCH, WHITE | 12 | MARKING DIAGONAL EPOXY, 12-INCH, WHITE |
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| 11 | MARKING ISLAND NOSE EPOXY | | |













- | | | | |
|----|--|----|--|
| 1 | MARKING LINE EPOXY, 4-INCH, WHITE | 12 | MARKING DIAGONAL EPOXY, 12-INCH, WHITE |
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| 11 | MARKING ISLAND NOSE EPOXY | | |

LEGEND

- 1

MARKING LINE EPOXY, 4-INCH, WHITE
- 2

MARKING LINE EPOXY, 4-INCH, YELLOW
- 3

MARKING LINE GROOVED WET REFLECTIVE CONTRAST EPOXY 8-INCH, WHITE
- 4

MARKING STOP LINE EPOXY, 18-INCH, WHITE
- 5

MARKING LINE EPOXY, 8-INCH, WHITE (9' SKIPS, 3' LINE)
- 6

MARKING ARROW EPOXY, TYPE 1
- 7

MARKING ARROW EPOXY TYPE 2
- 8

MARKING ARROW EPOXY TYPE 3
- 9

MARKING WORD EPOXY
- 10

MARKING LINE GROOVED WET REFLECTIVE CONTRAST EPOXY, 4-INCH, WHITE (37.5' SKIP, 12.5' LINE)
- 11

MARKING ISLAND NOSE EPOXY
- 12

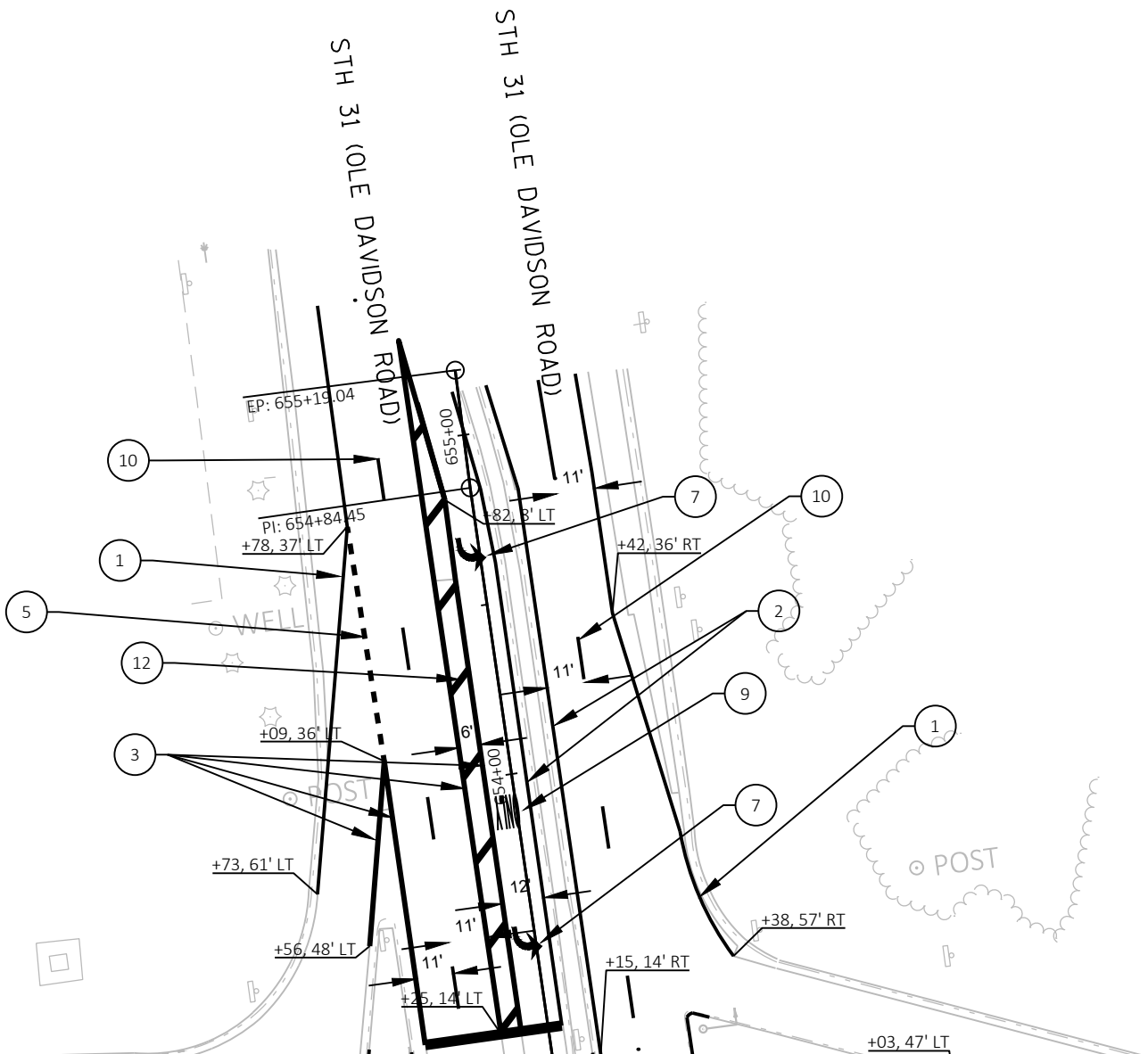
MARKING DIAGONAL EPOXY, 12-INCH, WHITE
- 13

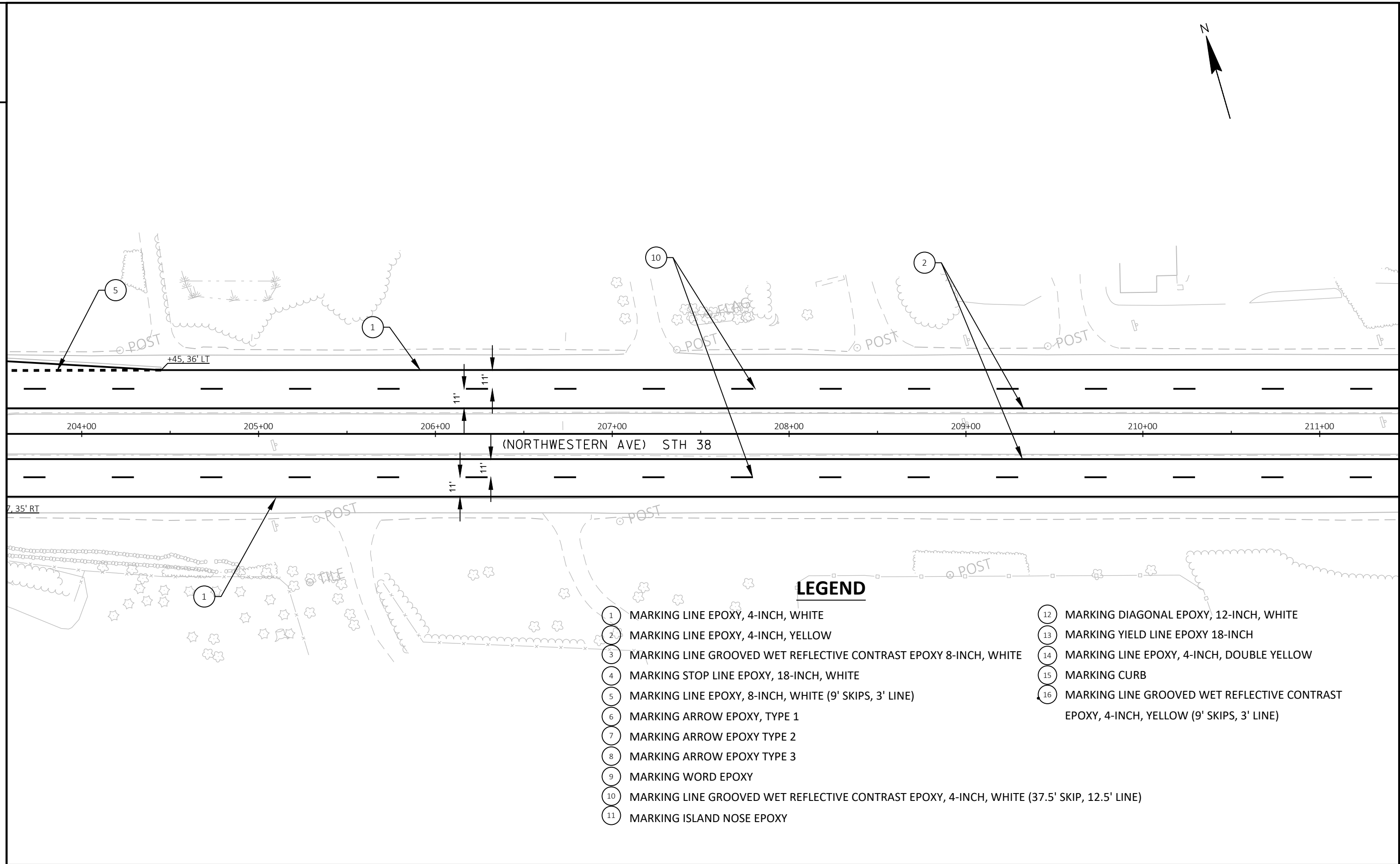
MARKING YIELD LINE EPOXY 18-INCH
- 14

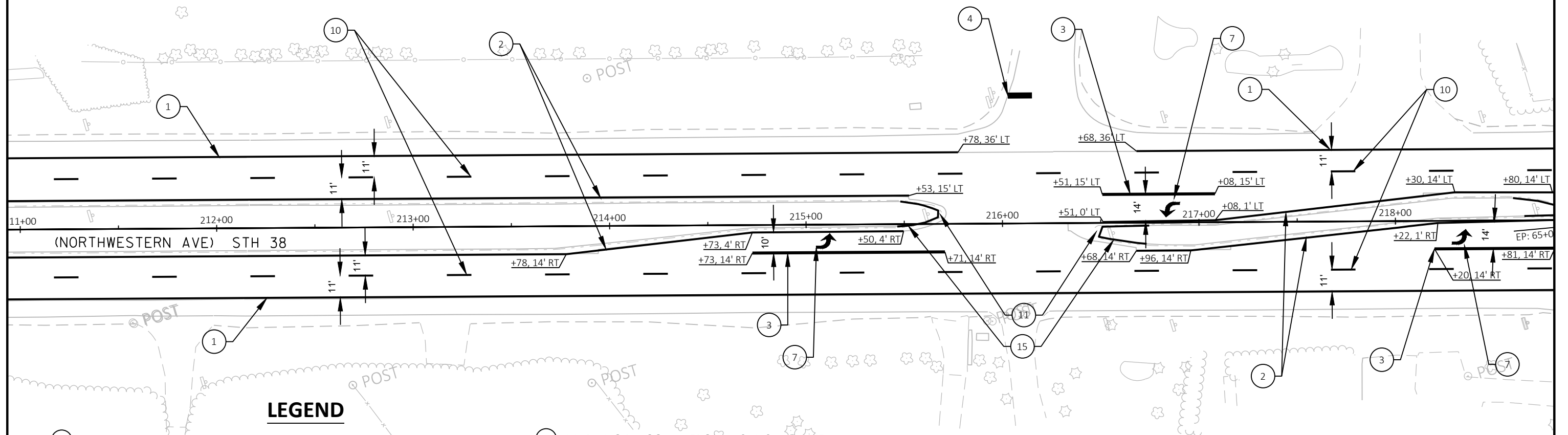
MARKING LINE EPOXY, 4-INCH, DOUBLE YELLOW
- 15

MARKING CURB
- 16

MARKING LINE GROOVED WET REFLECTIVE CONTRAST EPOXY, 4-INCH, YELLOW (9' SKIPS, 3' LINE)





**LEGEND**

- | | |
|---|---|
| 1 MARKING LINE EPOXY, 4-INCH, WHITE | 12 MARKING DIAGONAL EPOXY, 12-INCH, WHITE |
| 2 MARKING LINE EPOXY, 4-INCH, YELLOW | 13 MARKING YIELD LINE EPOXY 18-INCH |
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| 10 MARKING LINE GROOVED WET REFLECTIVE CONTRAST EPOXY, 4-INCH, WHITE (37.5' SKIP, 12.5' LINE) | |
| 11 MARKING ISLAND NOSE EPOXY | |

PROJECT NO: 2290-22-70

HWY: STH 38

COUNTY: RACINE

PAVEMENT MARKING

SHEET

PRE_115

E

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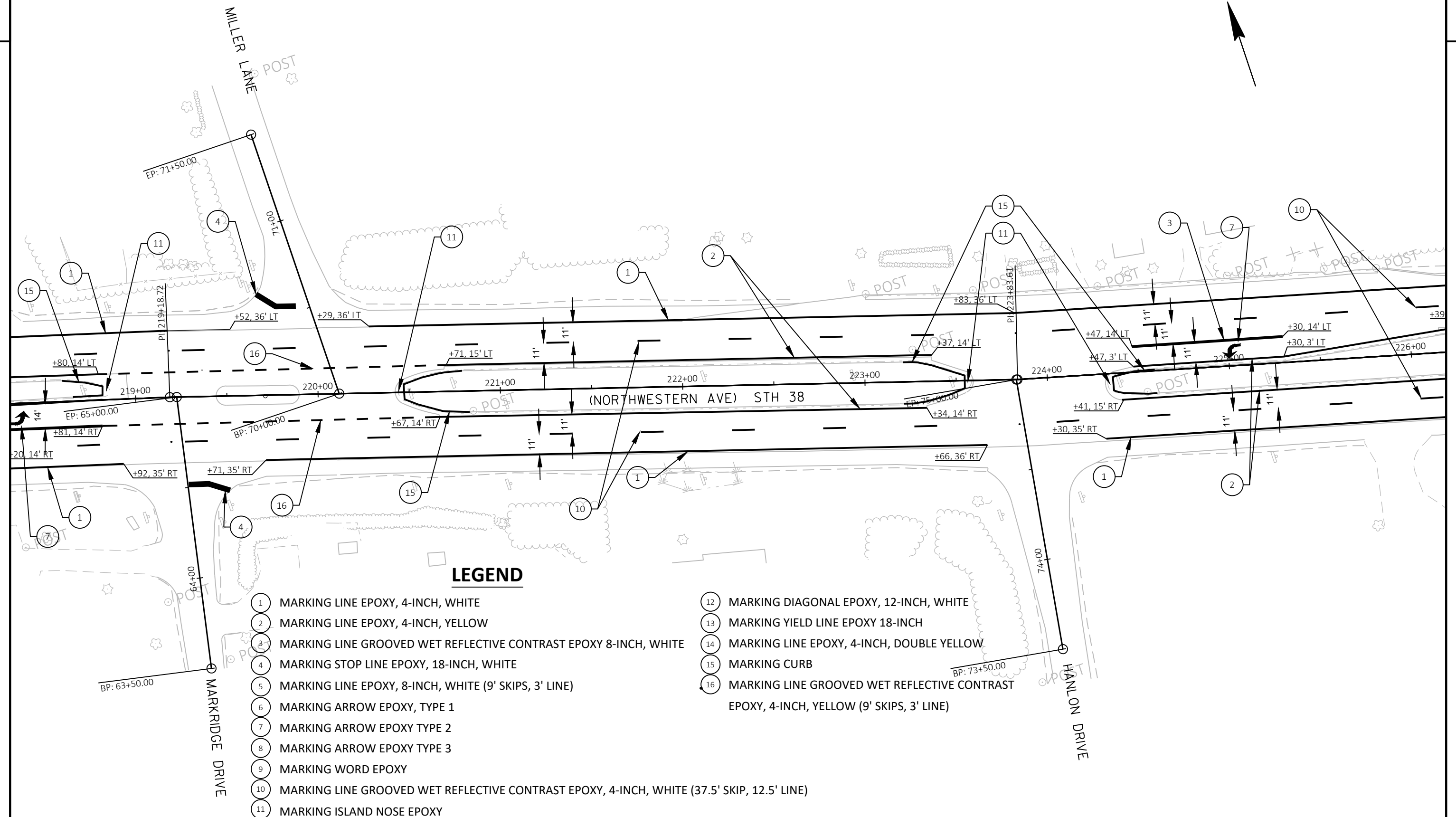
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PLOT BY : SMITH, CLAYTON L

PLOT NAME :

PLOT SCALE : 1 IN:50 FT

WISDOT/CADDs SHEET 42



PROJECT NO: 2290-22-70

HWY: STH 38

COUNTY: RACINE

PAVEMENT MARKING

SHEET

PRE_116

E

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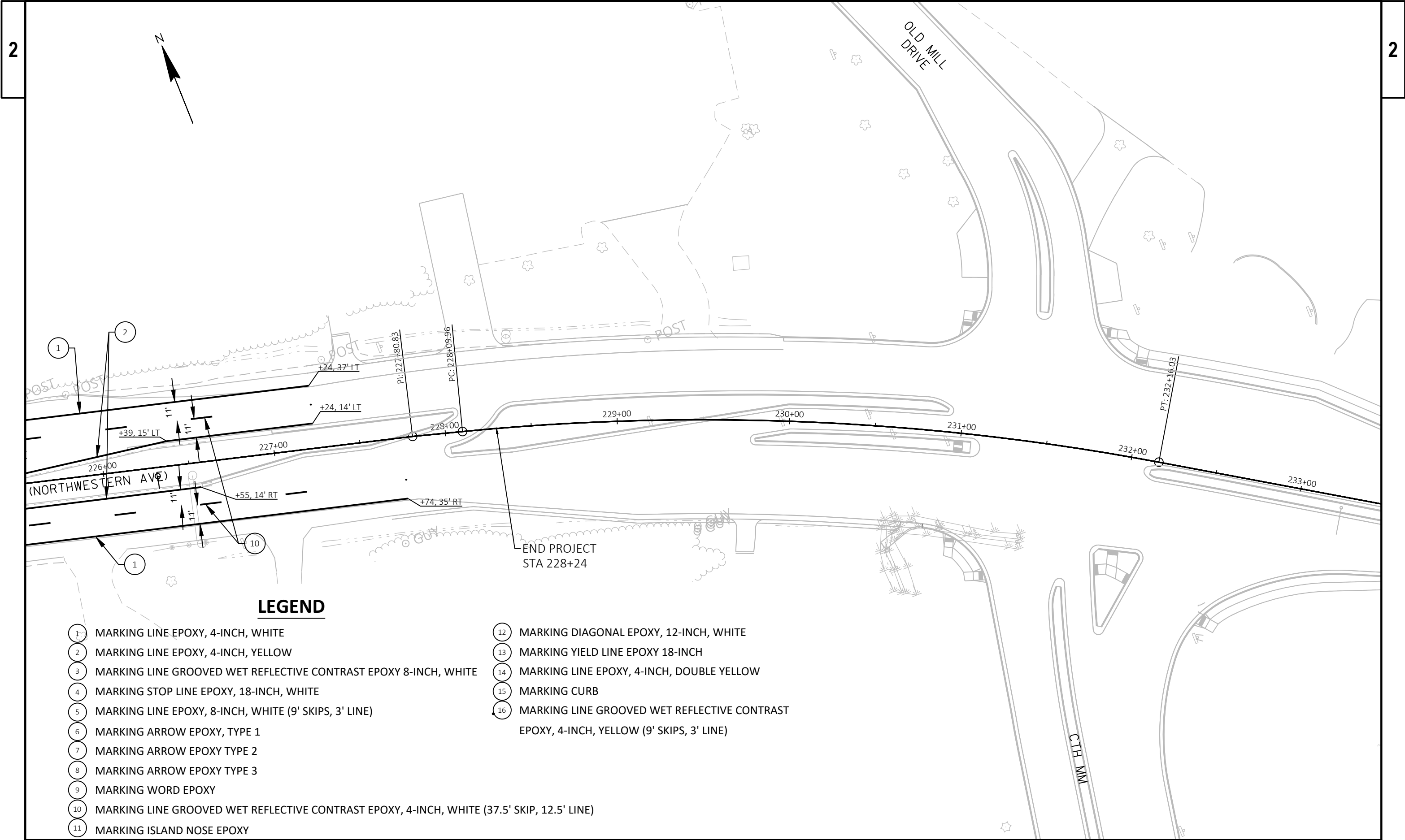
PLOT DATE : 4/30/2020 7:29 AM

PLOT BY : SMITH, CLAYTON L

PLOT NAME :

PLOT SCALE : 1 IN:50 FT

WISDOT/CADDs SHEET 42



LEGEND

- 1

MARKING LINE EPOXY, 4-INCH, WHITE
- 2

MARKING LINE EPOXY, 4-INCH, YELLOW
- 3

MARKING LINE GROOVED WET REFLECTIVE CONTRAST EPOXY 8-INCH, WHITE
- 4

MARKING STOP LINE EPOXY, 18-INCH, WHITE
- 5

MARKING LINE EPOXY, 8-INCH, WHITE (9' SKIPS, 3' LINE)
- 6

MARKING ARROW EPOXY, TYPE 1
- 7

MARKING ARROW EPOXY TYPE 2
- 8

MARKING ARROW EPOXY TYPE 3
- 9

MARKING WORD EPOXY
- 10

MARKING LINE GROOVED WET REFLECTIVE CONTRAST EPOXY, 4-INCH, WHITE (37.5' SKIP, 12.5' LINE)
- 11

MARKING ISLAND NOSE EPOXY
- 12

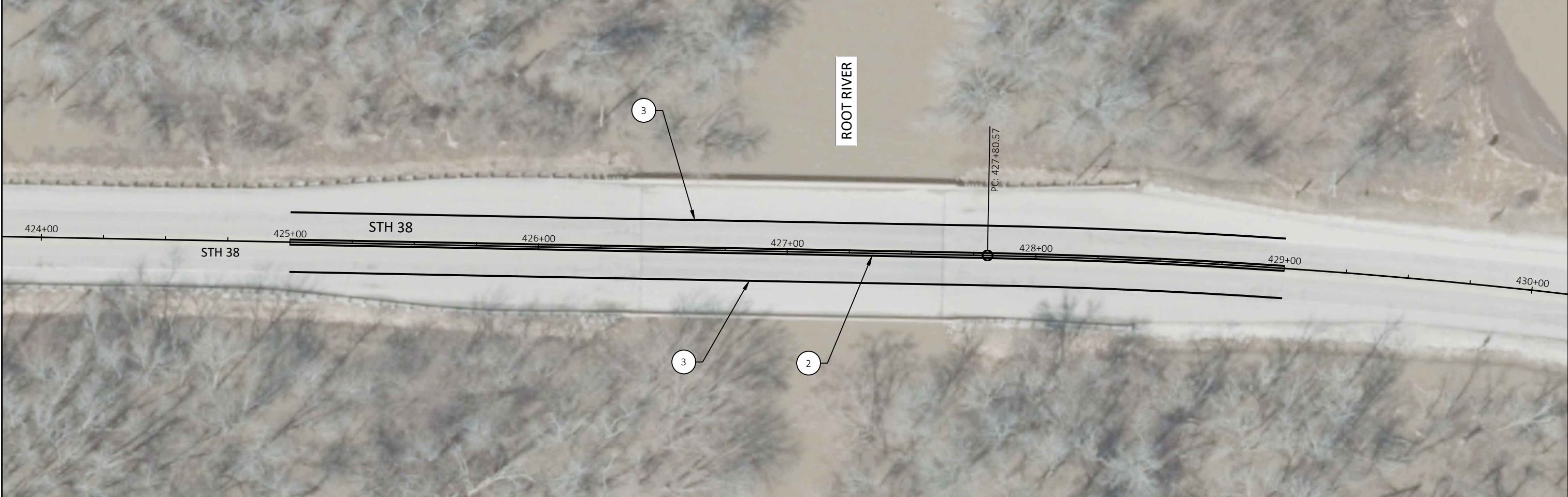
MARKING DIAGONAL EPOXY, 12-INCH, WHITE
- 13

MARKING YIELD LINE EPOXY 18-INCH
- 14

MARKING LINE EPOXY, 4-INCH, DOUBLE YELLOW
- 15

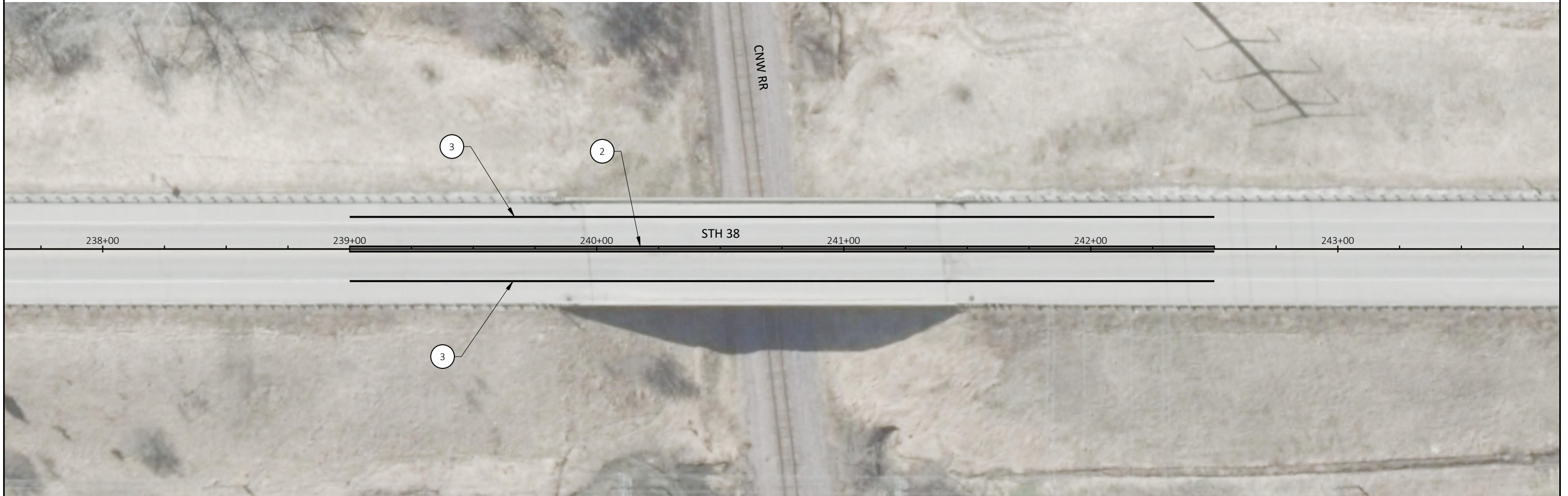
MARKING CURB
- 16

MARKING LINE GROOVED WET REFLECTIVE CONTRAST EPOXY, 4-INCH, YELLOW (9' SKIPS, 3' LINE)



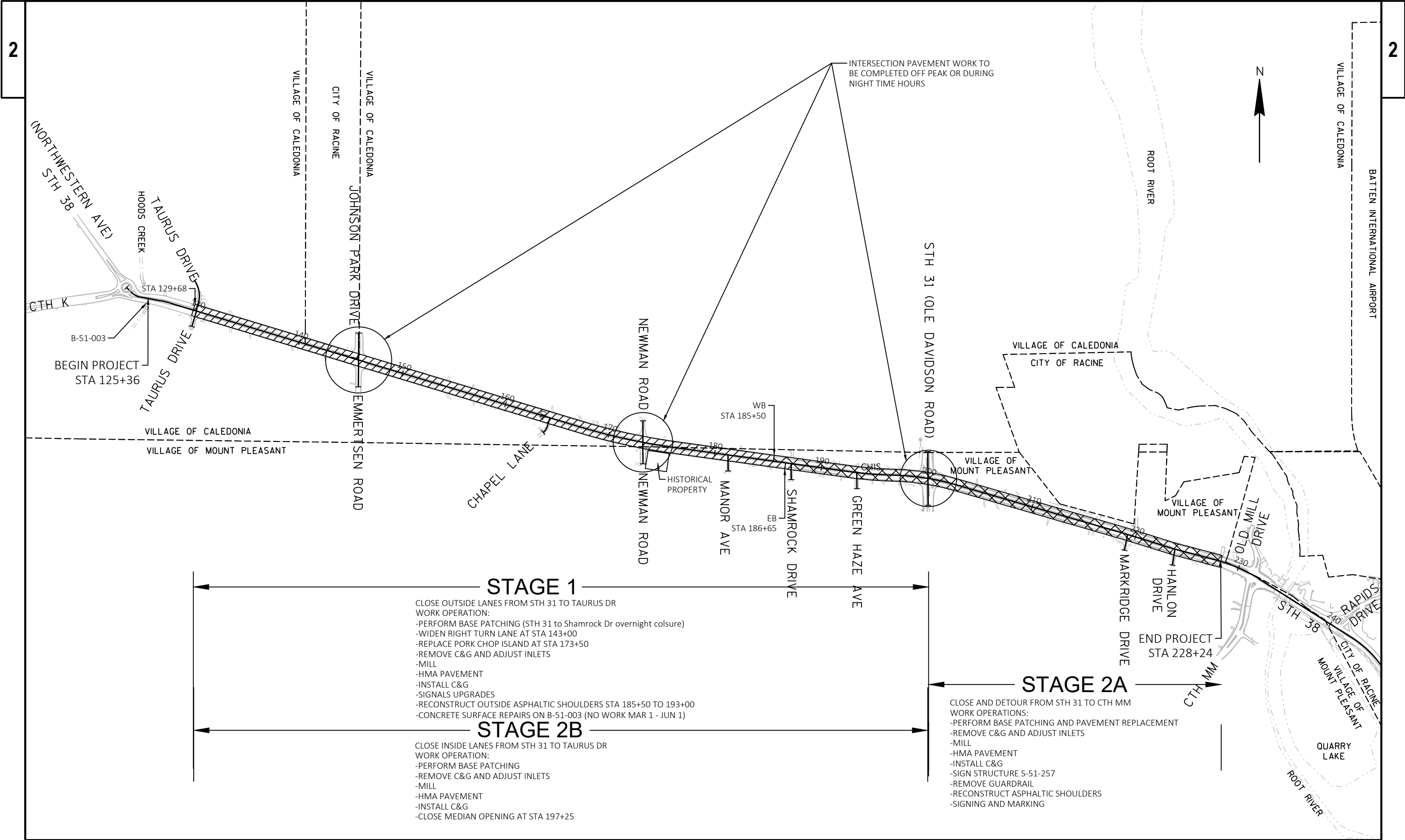
PAVEMENT MARKING LEGEND

- 1 MARKING LINE EPOXY 4-INCH (YELLOW)
- 2 MARKING LINE EPOXY 4-INCH (DOUBLE YELLOW)
- 3 MARKING LINE EPOXY 4-INCH (WHITE)
- 4 MARKING LINE EPOXY 4-INCH (12.5' LINE 37.5' GAP)
- 5 MARKING LINE GROOVED WET REF CONTRAST EPOXY 4-INCH (12.5' LINE 37.5' GAP)
- 6 MARKING LINE EPOXY 8-INCH



PAVEMENT MARKING LEGEND

- 1 MARKING LINE EPOXY 4-INCH (YELLOW)
- 2 MARKING LINE EPOXY 4-INCH (DOUBLE YELLOW)
- 3 MARKING LINE EPOXY 4-INCH (WHITE)
- 4 MARKING LINE EPOXY 4-INCH (WHITE - 12.5' LINE 37.5' GAP)
- 5 MARKING LINE GROOVED WET REF CONTRAST EPOXY 4-INCH (12.5' LINE 37.5' GAP)
- 6 MARKING LINE EPOXY 8-INCH



STAGE 1

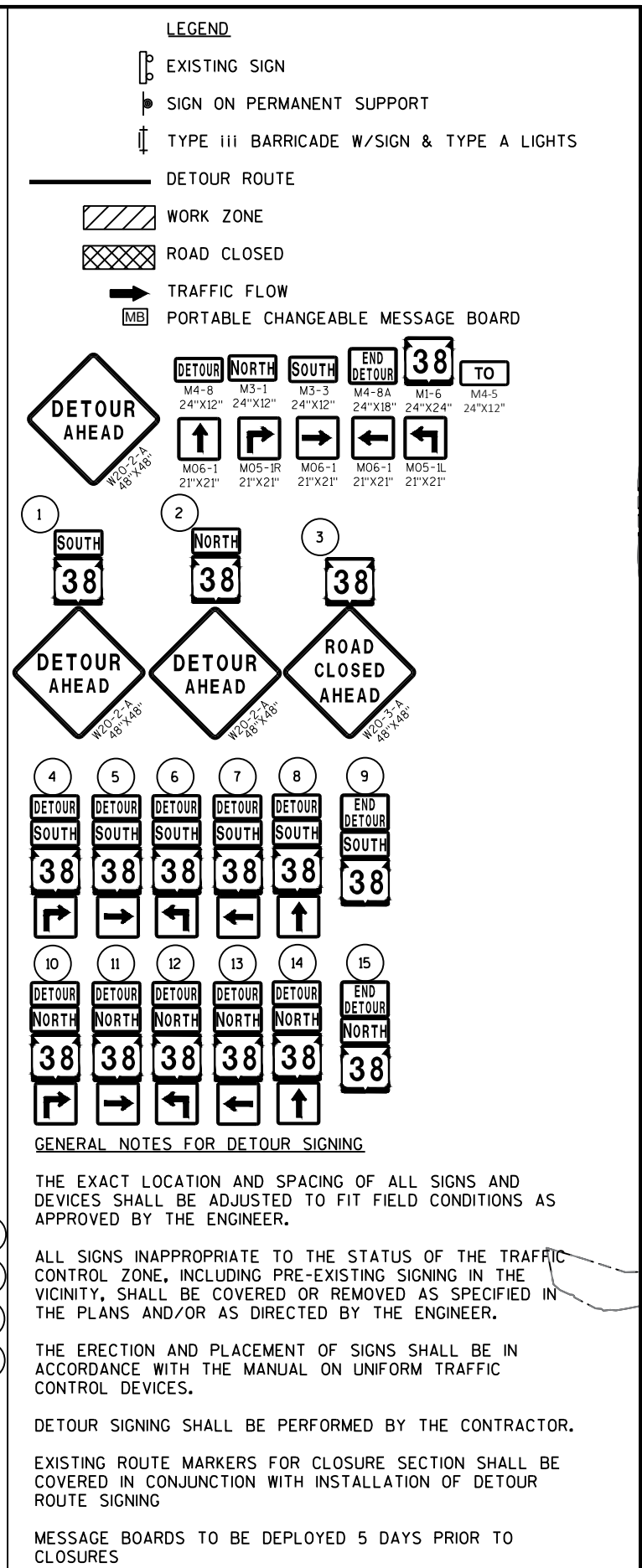
CLOSE OUTSIDE LANES FROM STH 31 TO TAURUS DR
WORK OPERATION:
-PERFORM BASE PATCHING (STH 31 to Shamrock Dr overnight colsure)
-WIDEN RIGHT TURN LANE AT STA 143+00
-REPLACE PORK CHOP ISLAND AT STA 173+50
-REMOVE C&G AND ADJUST INLETS
-MILL
-HMA PAVEMENT
-INSTALL C&G
-SIGNALS UPGRADES
-RECONSTRUCT OUTSIDE ASPHALTIC SHOULDERS STA 185+50 TO 193+00
-CONCRETE SURFACE REPAIRS ON B-51-003 (NO WORK MAR 1 - JUN 1)

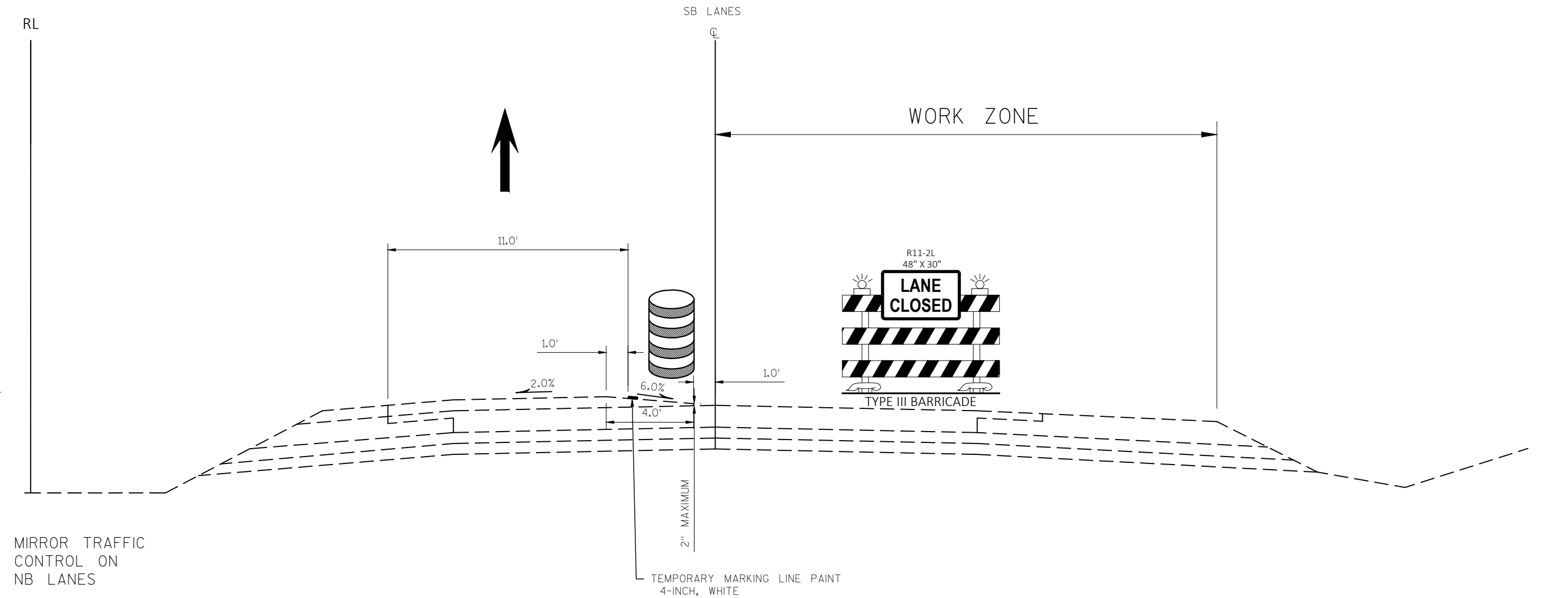
STAGE 2B

CLOSE INSIDE LANES FROM STH 31 TO TAURUS DR
WORK OPERATION:
-PERFORM BASE PATCHING
-REMOVE C&G AND ADJUST INLETS
-MILL
-HMA PAVEMENT
-INSTALL C&G
-CLOSE MEDIAN OPENING AT STA 197+25

STAGE 2A

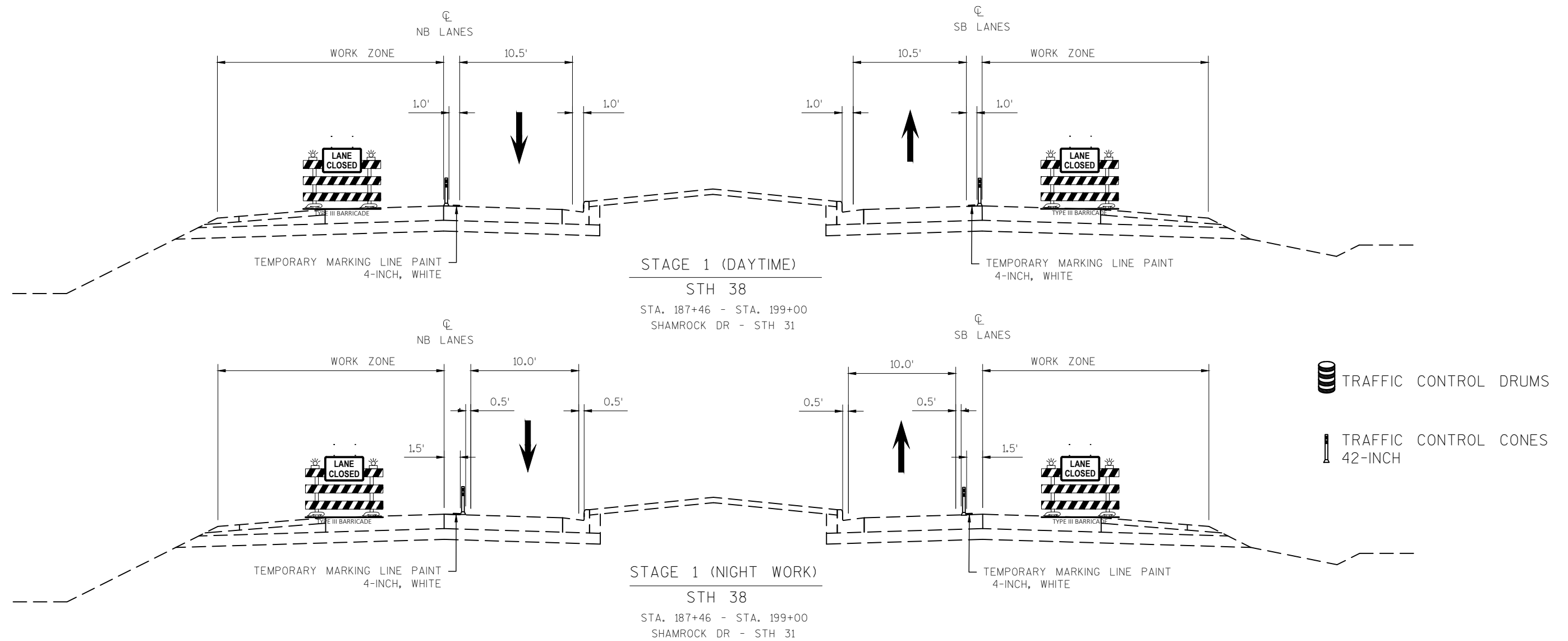
CLOSE AND DETOUR FROM STH 31 TO CTH MM
WORK OPERATIONS:
-PERFORM BASE PATCHING AND PAVEMENT REPLACEMENT
-REMOVE C&G AND ADJUST INLETS
-MILL
-HMA PAVEMENT
-INSTALL C&G
-SIGN STRUCTURE S-51-257
-REMOVE GUARDRAIL
-RECONSTRUCT ASPHALTIC SHOULDERS
-SIGNING AND MARKING

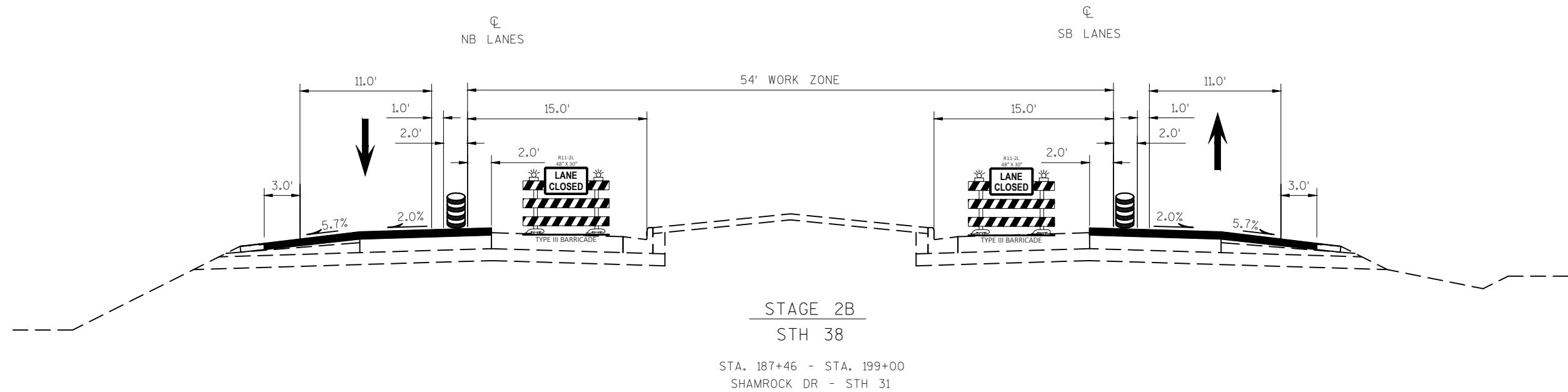
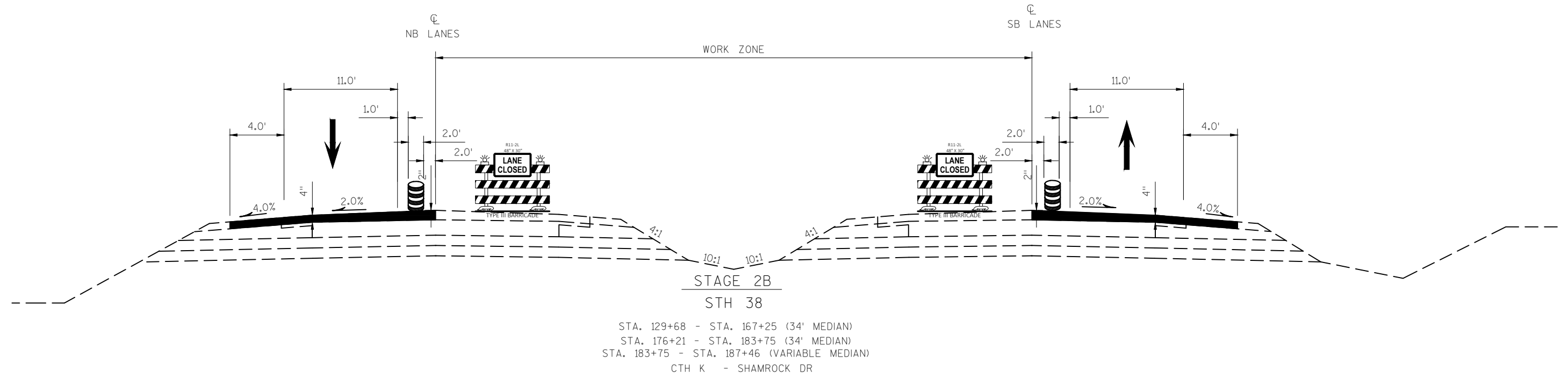


STAGE 1STH 38

STA. 129+68 - STA. 167+25 (34' MEDIAN)
STA. 176+21 - STA. 183+75 (34' MEDIAN)
STA. 183+75 - STA. 187+46 (VARIABLE MEDIAN)
CTH K - SHAMROCK DR

 TRAFFIC CONTROL DRUMS





LEGEND

- ↑

TYPE III BARRICADE
- ↑

TYPE III BARRICADE WTH ATTACHED SIGN
- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT
- ↗

FLASHING ARROW BOARD
- ▮

SIGN ON PERMANENT SUPPORT
- ▮

SIGN ON TEMPORARY SUPPORT
- DELINEATOR FLEXIBLE/TUBULAR MARKER
- Ⓐ

TYPE A WARNING LIGHT (FLASHING)
- Ⓑ

TYPE B WARNING LIGHT (HIGH INTENSITY FLASHING)
- Ⓒ

TYPE C WARNING LIGHT (STEADY BURN)
- ▨

WORK AREA
- ◀

TEMPORARY RAISED PAVEMENT MARKER (ONE WAY REFLECTOR)
- ◀▶

TEMPORARY RAISED PAVEMENT MARKER (TWO WAY REFLECTOR)
- 🚧

TRAFFIC CONE
- DIRECTION OF TRAFFIC
- MB

PORTABLE CHANGEABLE MESSAGE BOARD

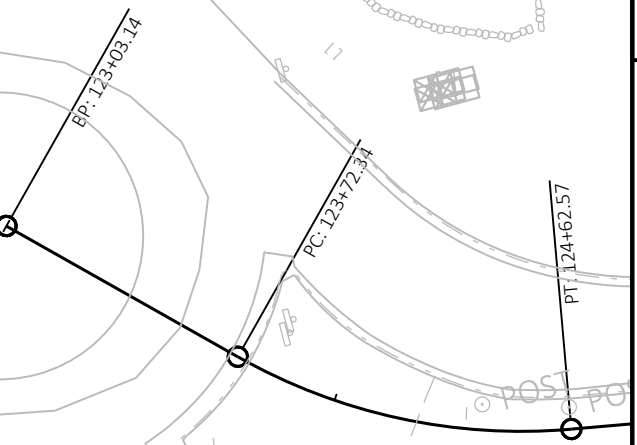
CTH K

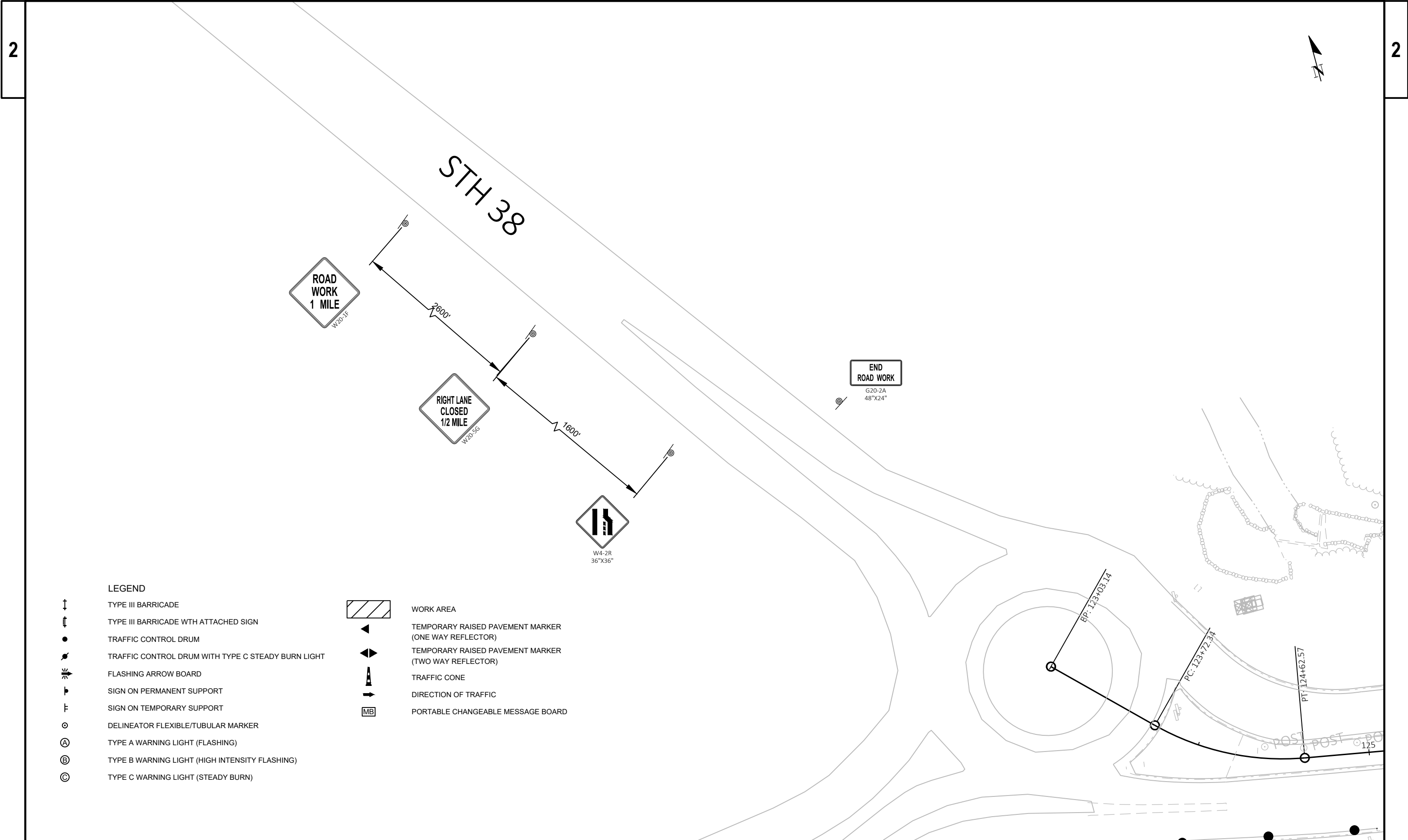
END
ROAD WORK
G20-2A
48"X24"

ROAD
WORK
1 MILE
W20-1F

RIGHT LANE
CLOSED
1/2 MILE
W20-5G

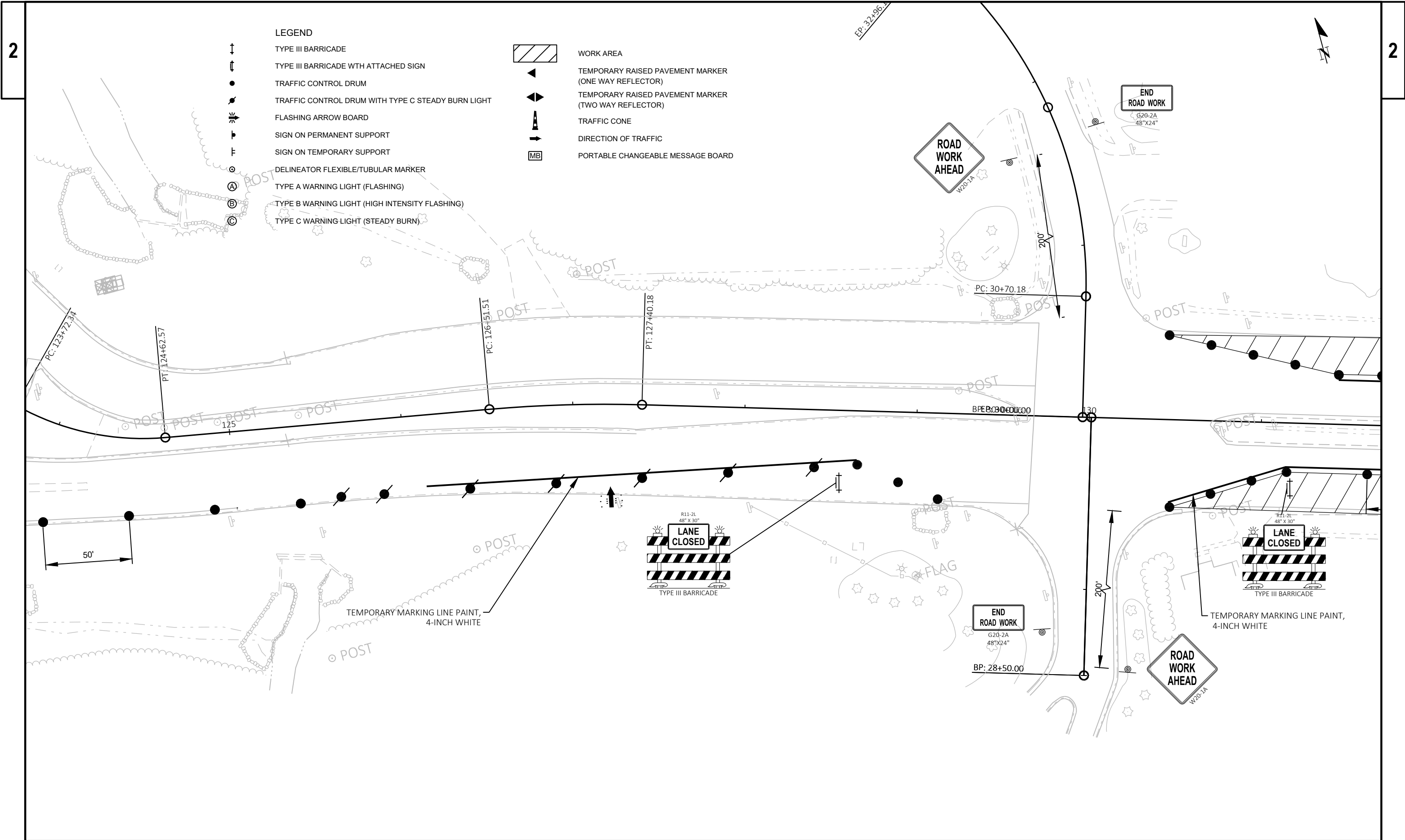
W4-2R
36"X36"

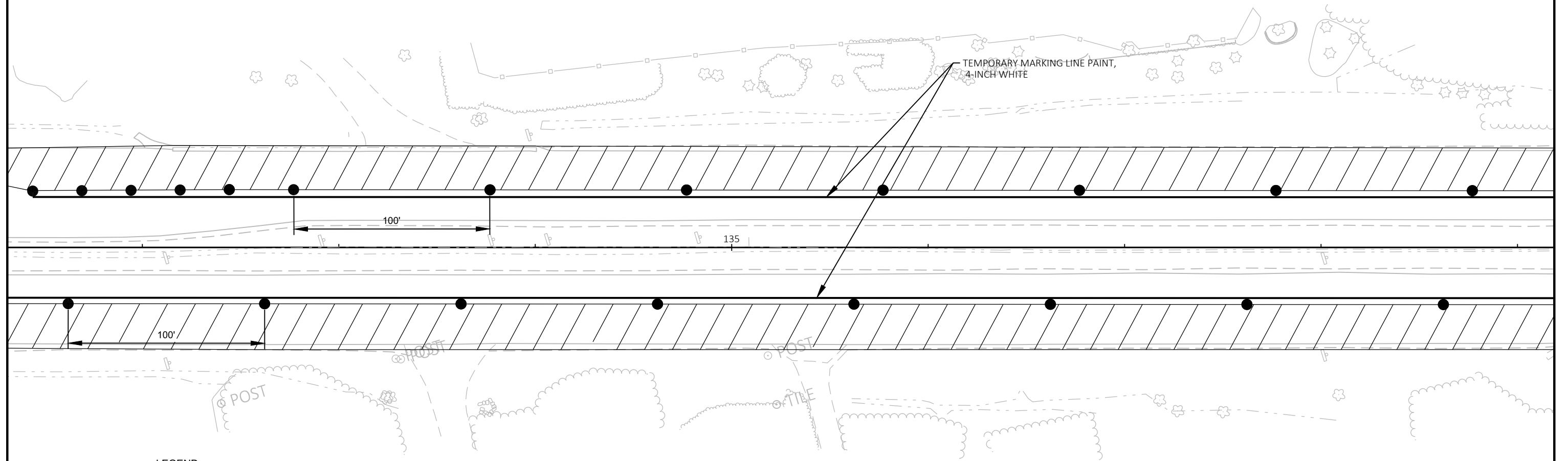




LEGEND

- | | | | |
|---|--|----|--|
| ↑ | TYPE III BARRICADE | | WORK AREA |
| ↑ | TYPE III BARRICADE WITH ATTACHED SIGN | ◀ | TEMPORARY RAISED PAVEMENT MARKER (ONE WAY REFLECTOR) |
| ● | TRAFFIC CONTROL DRUM | ◀▶ | TEMPORARY RAISED PAVEMENT MARKER (TWO WAY REFLECTOR) |
| ⦿ | TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT | 🚧 | TRAFFIC CONE |
| ⚡ | FLASHING ARROW BOARD | → | DIRECTION OF TRAFFIC |
| ▮ | SIGN ON PERMANENT SUPPORT | MB | PORTABLE CHANGEABLE MESSAGE BOARD |
| ⊥ | SIGN ON TEMPORARY SUPPORT | | |
| ○ | DELINEATOR FLEXIBLE/TUBULAR MARKER | | |
| Ⓐ | TYPE A WARNING LIGHT (FLASHING) | | |
| Ⓑ | TYPE B WARNING LIGHT (HIGH INTENSITY FLASHING) | | |
| Ⓒ | TYPE C WARNING LIGHT (STEADY BURN) | | |





LEGEND

- | | | | |
|--|--|--|---|
| | TYPE III BARRICADE | | WORK AREA |
| | TYPE III BARRICADE WTH ATTACHED SIGN | | TEMPORARY RAISED PAVEMENT MARKER
(ONE WAY REFLECTOR) |
| | TRAFFIC CONTROL DRUM | | TEMPORARY RAISED PAVEMENT MARKER
(TWO WAY REFLECTOR) |
| | TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT | | TRAFFIC CONE |
| | FLASHING ARROW BOARD | | DIRECTION OF TRAFFIC |
| | SIGN ON PERMANENT SUPPORT | | PORTABLE CHANGEABLE MESSAGE BOARD |
| | SIGN ON TEMPORARY SUPPORT | | |
| | DELINEATOR FLEXIBLE/TUBULAR MARKER | | |
| | TYPE A WARNING LIGHT (FLASHING) | | |
| | TYPE B WARNING LIGHT (HIGH INTENSITY FLASHING) | | |
| | TYPE C WARNING LIGHT (STEADY BURN) | | |

PROJECT NO: 2290-22-70

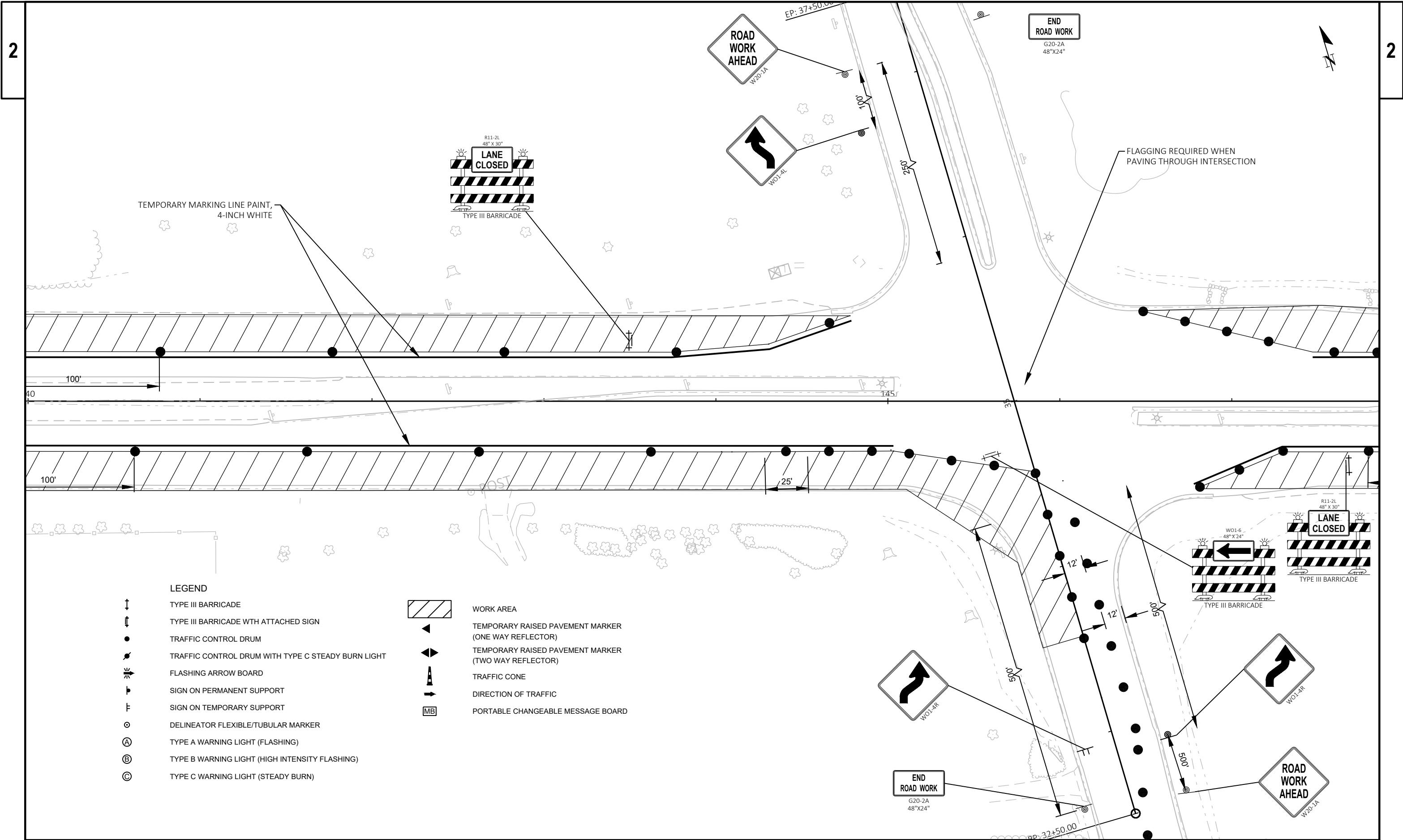
HWY: STH 38

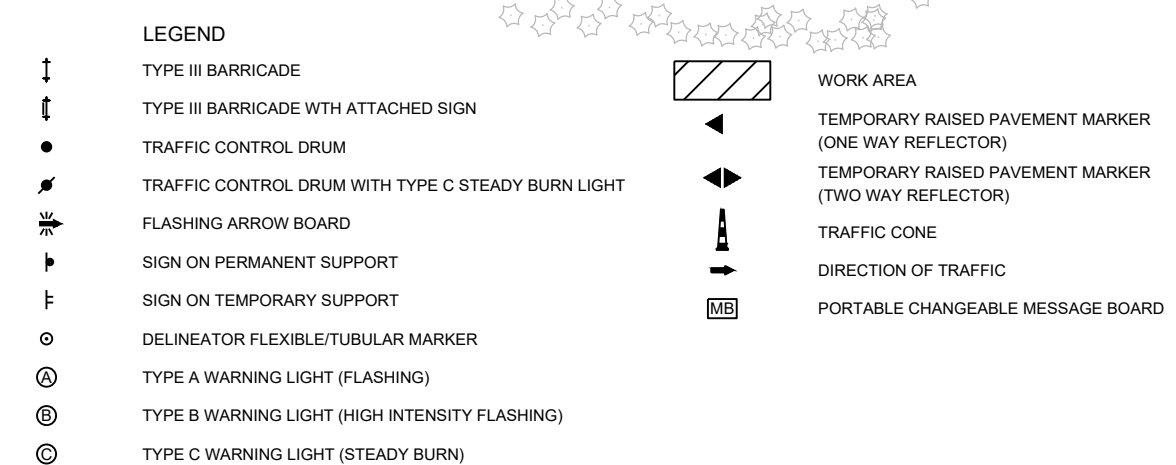
COUNTY: RACINE

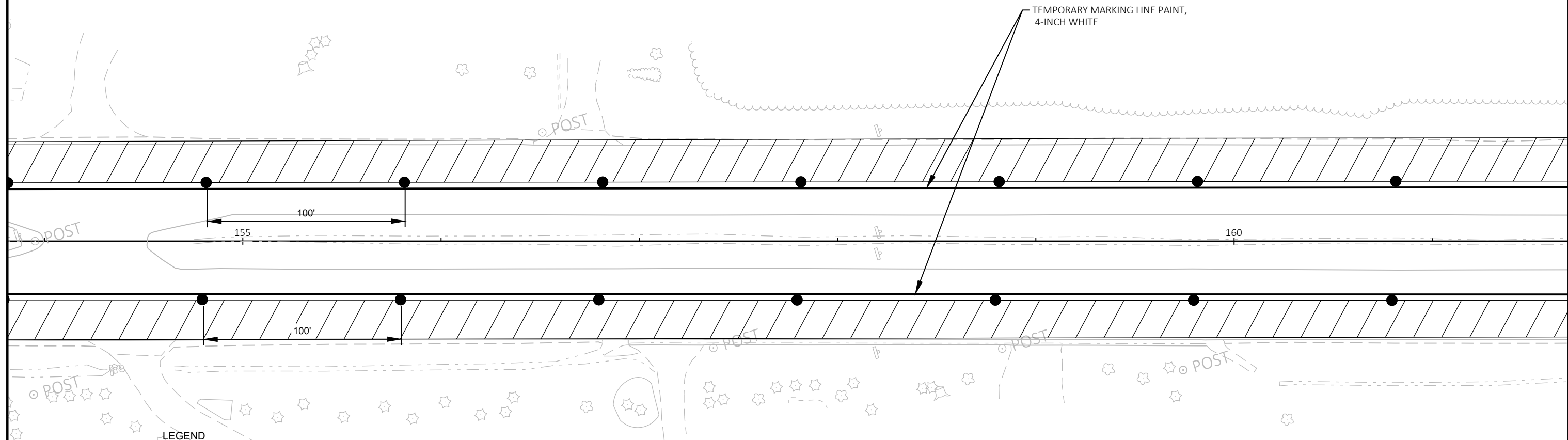
TRAFFIC CONTROL-STAGE 1 & 2A

SHEET

PRE_128 E







LEGEND

- | | | | |
|--|--|--|--|
| | TYPE III BARRICADE | | WORK AREA |
| | TYPE III BARRICADE WTH ATTACHED SIGN | | TEMPORARY RAISED PAVEMENT MARKER (ONE WAY REFLECTOR) |
| | TRAFFIC CONTROL DRUM | | TEMPORARY RAISED PAVEMENT MARKER (TWO WAY REFLECTOR) |
| | TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT | | TRAFFIC CONE |
| | FLASHING ARROW BOARD | | DIRECTION OF TRAFFIC |
| | SIGN ON PERMANENT SUPPORT | | PORTABLE CHANGEABLE MESSAGE BOARD |
| | SIGN ON TEMPORARY SUPPORT | | |
| | DELINEATOR FLEXIBLE/TUBULAR MARKER | | |
| | TYPE A WARNING LIGHT (FLASHING) | | |
| | TYPE B WARNING LIGHT (HIGH INTENSITY FLASHING) | | |
| | TYPE C WARNING LIGHT (STEADY BURN) | | |

PROJECT NO: 2290-22-70

HWY: STH 38

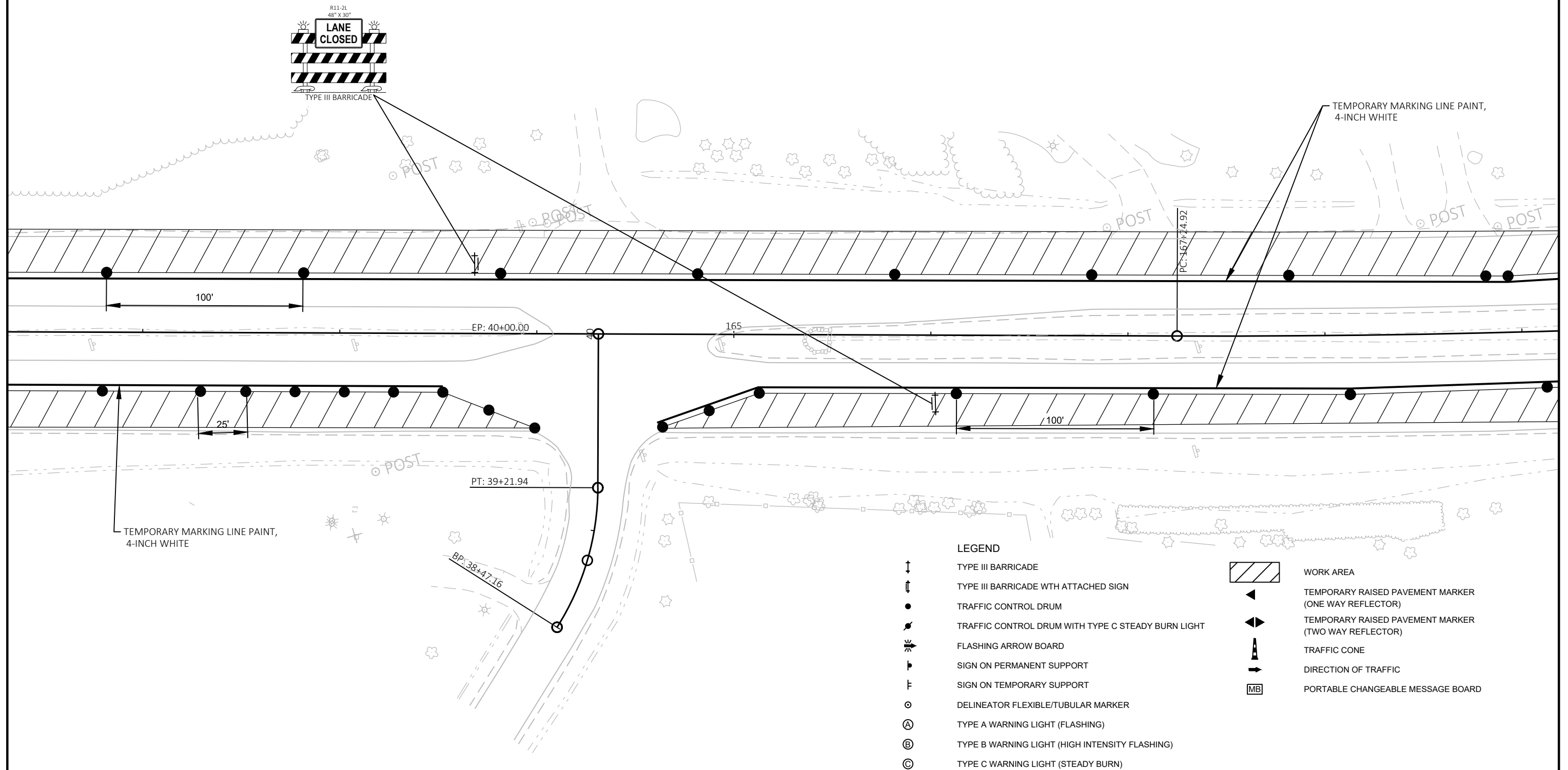
COUNTY: RACINE

TRAFFIC CONTROL-STAGE 1 & 2A

SHEET

PRE_131

E



PROJECT NO: 2290-22-70

HWY: STH 38

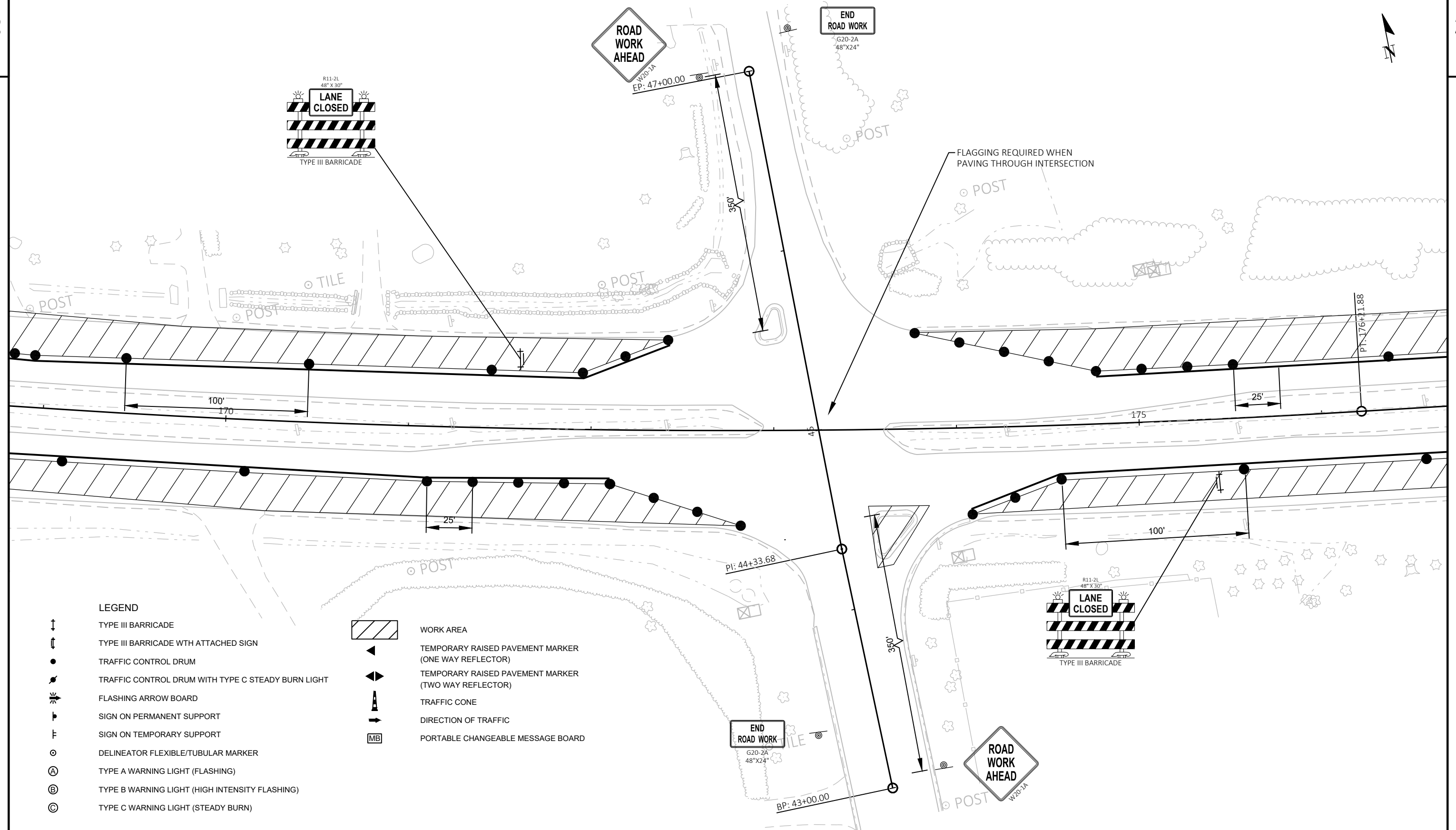
COUNTY: RACINE

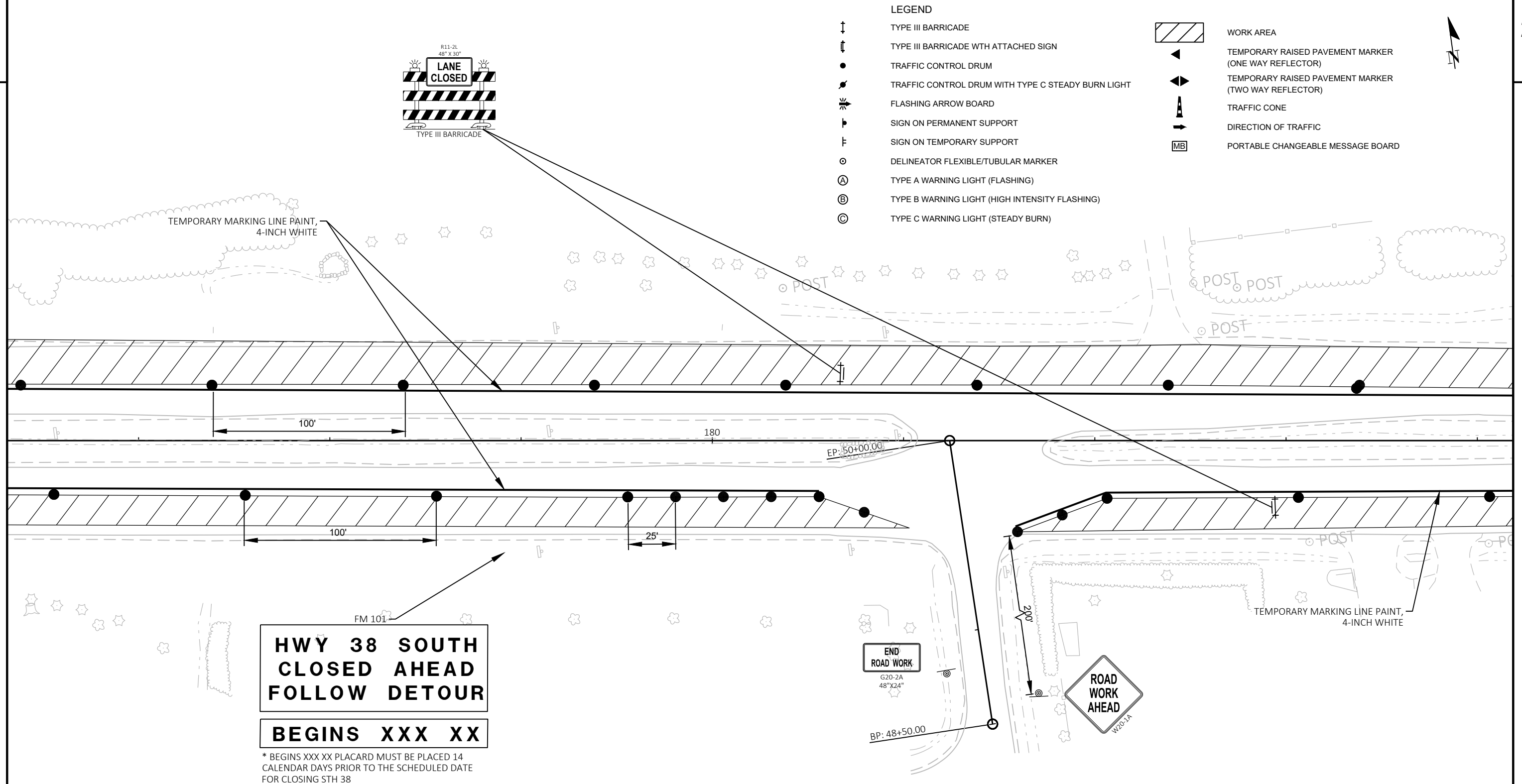
TRAFFIC CONTROL-STAGE 1 & 2A

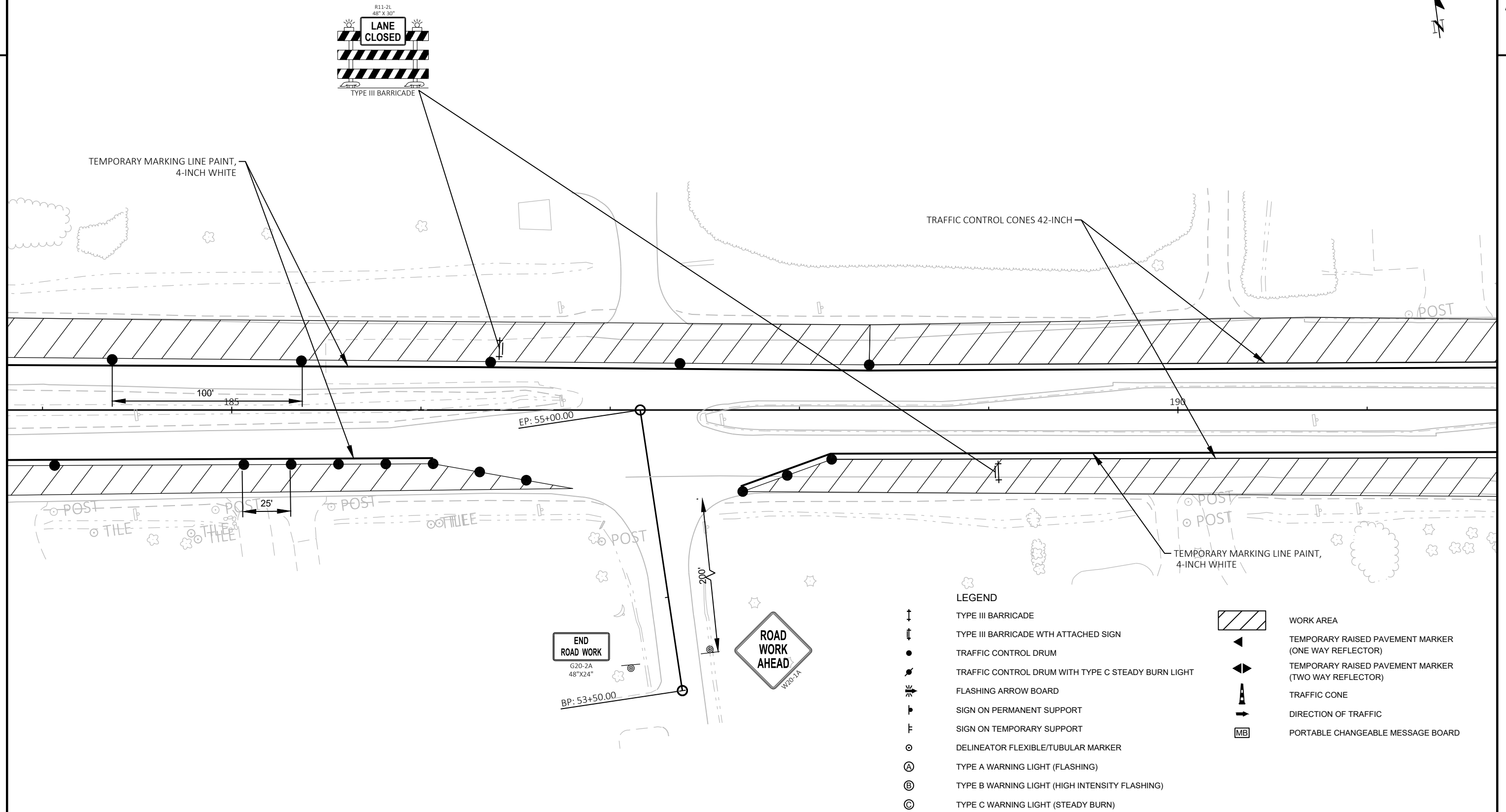
SHEET

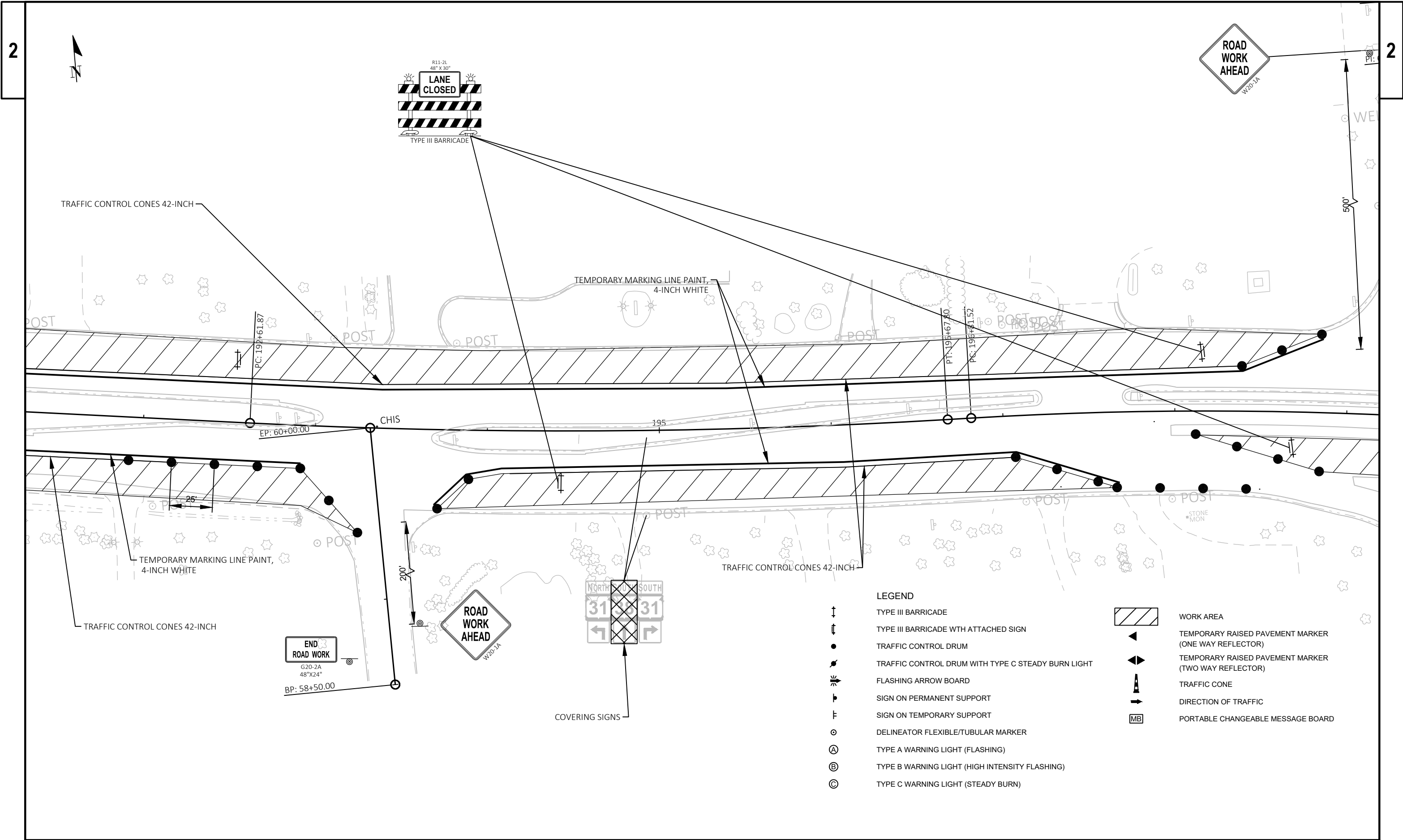
PRE_132

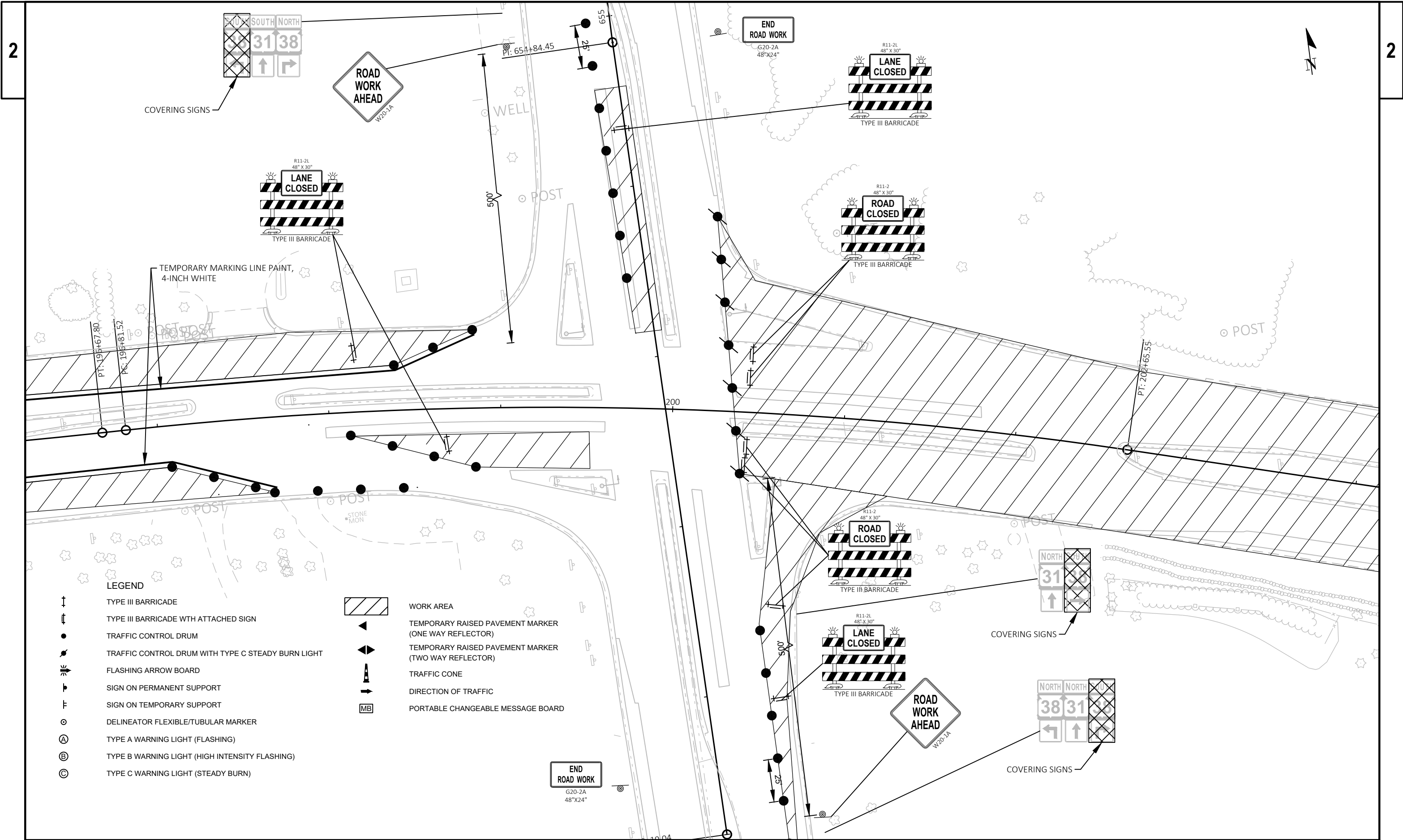
E

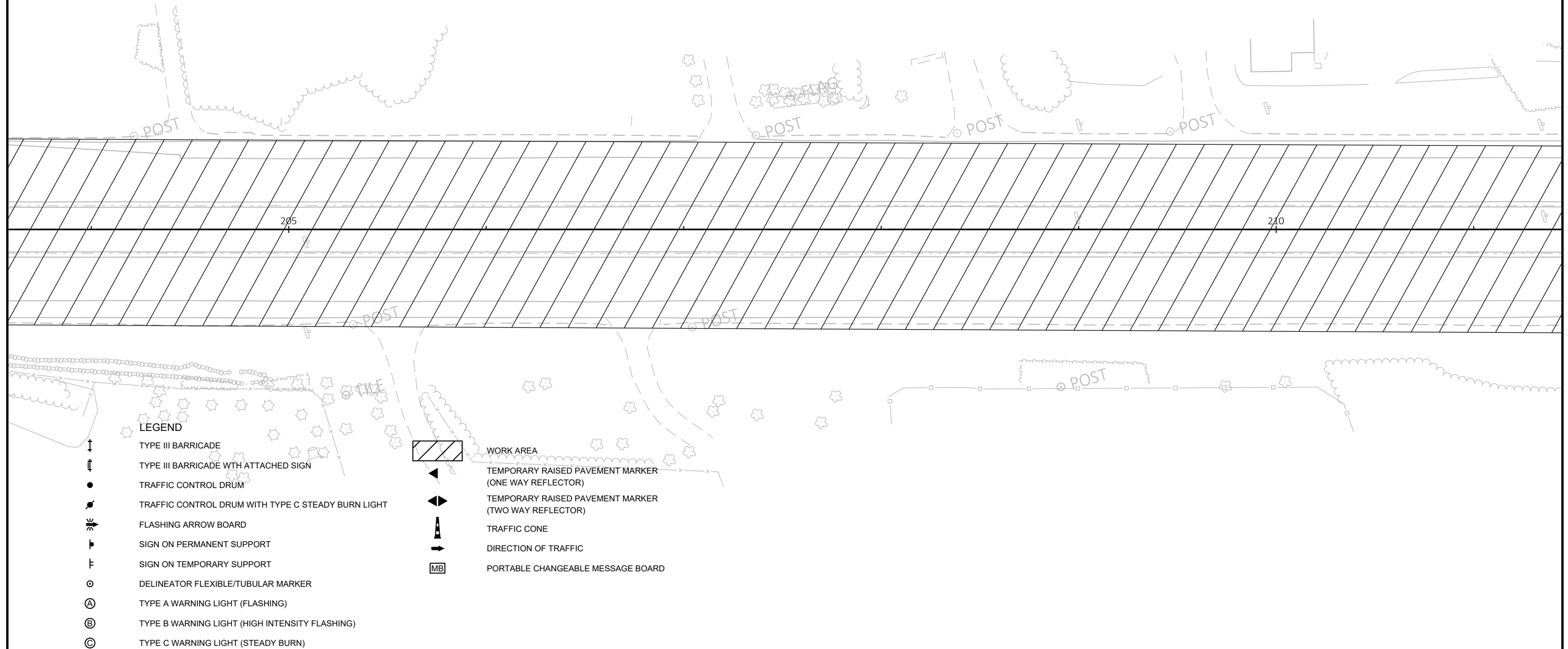






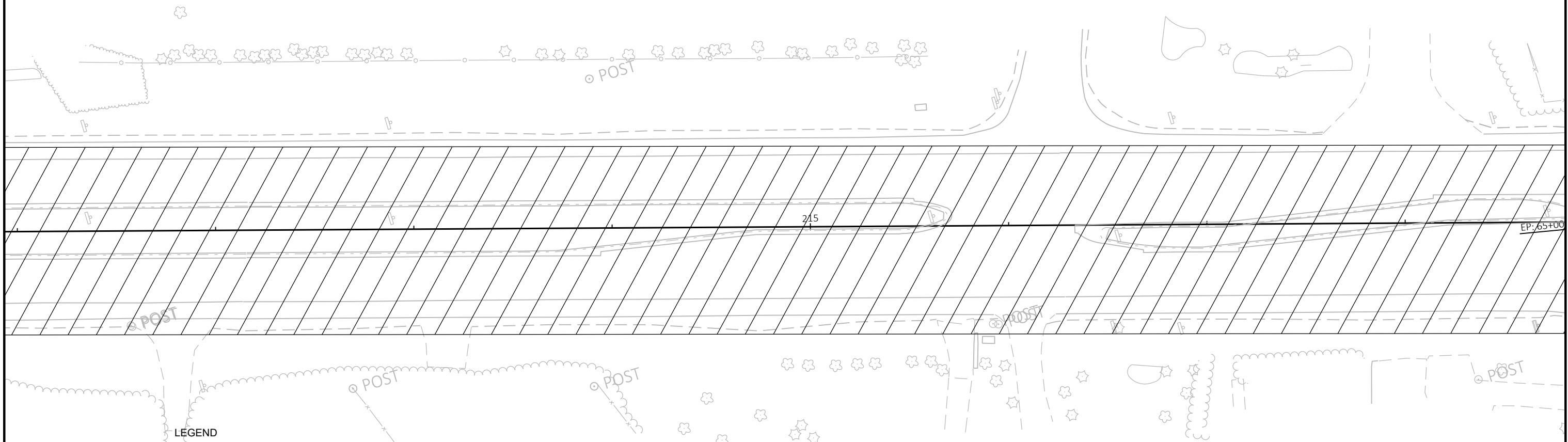






LEGEND

- | | | | |
|--|--|--|---|
| | TYPE III BARRICADE | | WORK AREA |
| | TYPE III BARRICADE WITH ATTACHED SIGN | | TEMPORARY RAISED PAVEMENT MARKER
(ONE WAY REFLECTOR) |
| | TRAFFIC CONTROL DRUM | | TEMPORARY RAISED PAVEMENT MARKER
(TWO WAY REFLECTOR) |
| | TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT | | TRAFFIC CONE |
| | FLASHING ARROW BOARD | | DIRECTION OF TRAFFIC |
| | SIGN ON PERMANENT SUPPORT | | PORTABLE CHANGEABLE MESSAGE BOARD |
| | SIGN ON TEMPORARY SUPPORT | | |
| | DELINEATOR FLEXIBLE/TUBULAR MARKER | | |
| | TYPE A WARNING LIGHT (FLASHING) | | |
| | TYPE B WARNING LIGHT (HIGH INTENSITY FLASHING) | | |
| | TYPE C WARNING LIGHT (STEADY BURN) | | |



LEGEND

- | | | | |
|--|--|--|--|
| | TYPE III BARRICADE | | WORK AREA |
| | TYPE III BARRICADE WTH ATTACHED SIGN | | TEMPORARY RAISED PAVEMENT MARKER (ONE WAY REFLECTOR) |
| | TRAFFIC CONTROL DRUM | | TEMPORARY RAISED PAVEMENT MARKER (TWO WAY REFLECTOR) |
| | TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT | | TRAFFIC CONE |
| | FLASHING ARROW BOARD | | DIRECTION OF TRAFFIC |
| | SIGN ON PERMANENT SUPPORT | | PORTABLE CHANGEABLE MESSAGE BOARD |
| | SIGN ON TEMPORARY SUPPORT | | |
| | DELINEATOR FLEXIBLE/TUBULAR MARKER | | |
| | TYPE A WARNING LIGHT (FLASHING) | | |
| | TYPE B WARNING LIGHT (HIGH INTENSITY FLASHING) | | |
| | TYPE C WARNING LIGHT (STEADY BURN) | | |

PROJECT NO: 2290-22-70

HWY: STH 38

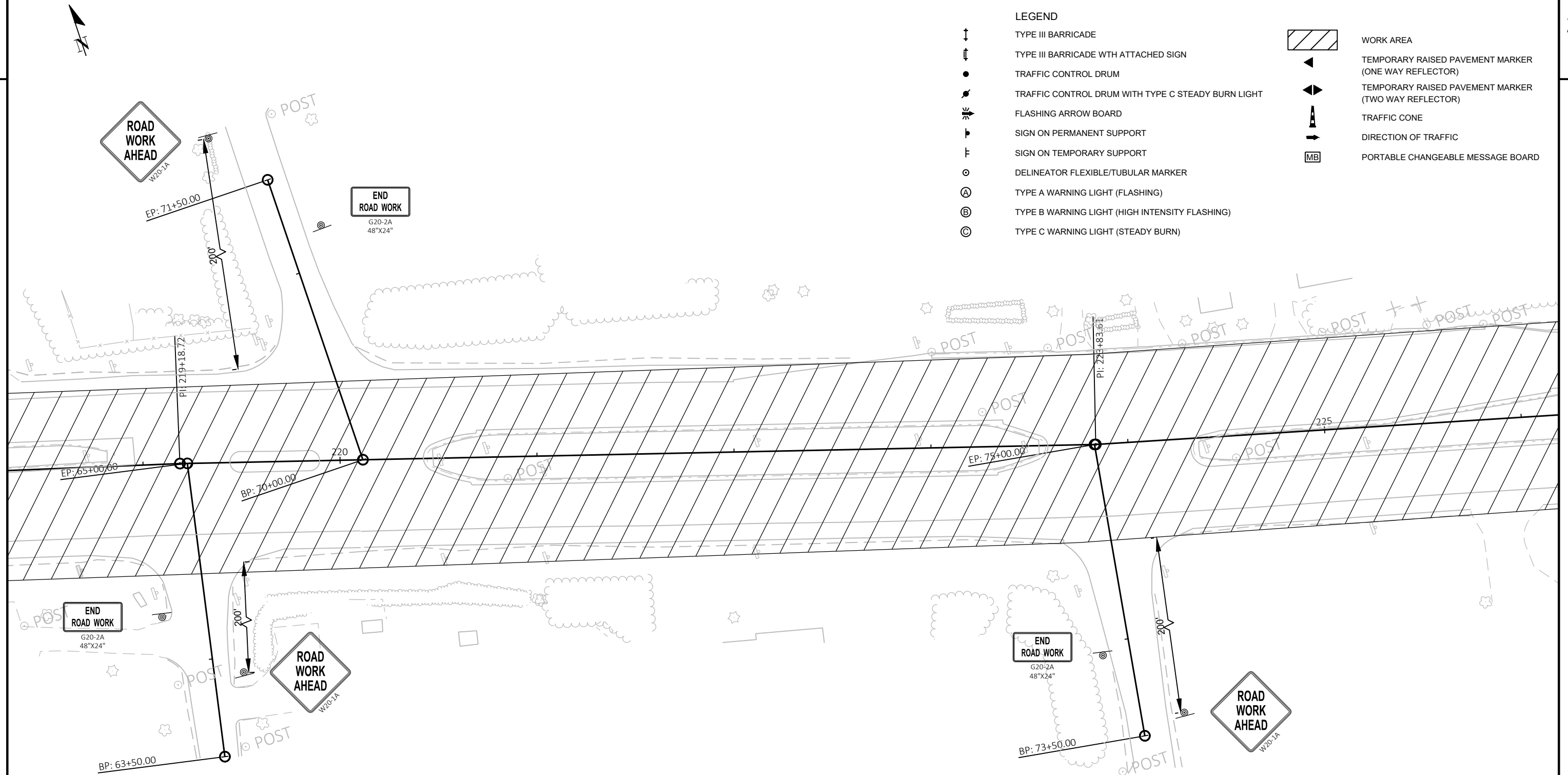
COUNTY: RACINE

TRAFFIC CONTROL-STAGE 1 & 2A

SHEET

PRE_139

E



PROJECT NO: 2290-22-70

HWY: STH 38

COUNTY: RACINE

TRAFFIC CONTROL-STAGE 1 & 2A

SHEET

PRE_140 E

FILE NAME : N:\PDS\C3D\22902200\SHEETSP\PLAN\025100-TC-1.DWG
LAYOUT NAME - TC_STAGE 1B_29

PLOT DATE : 4/21/2020 9:47 AM

PLOT BY : SMITH, CLAYTON L

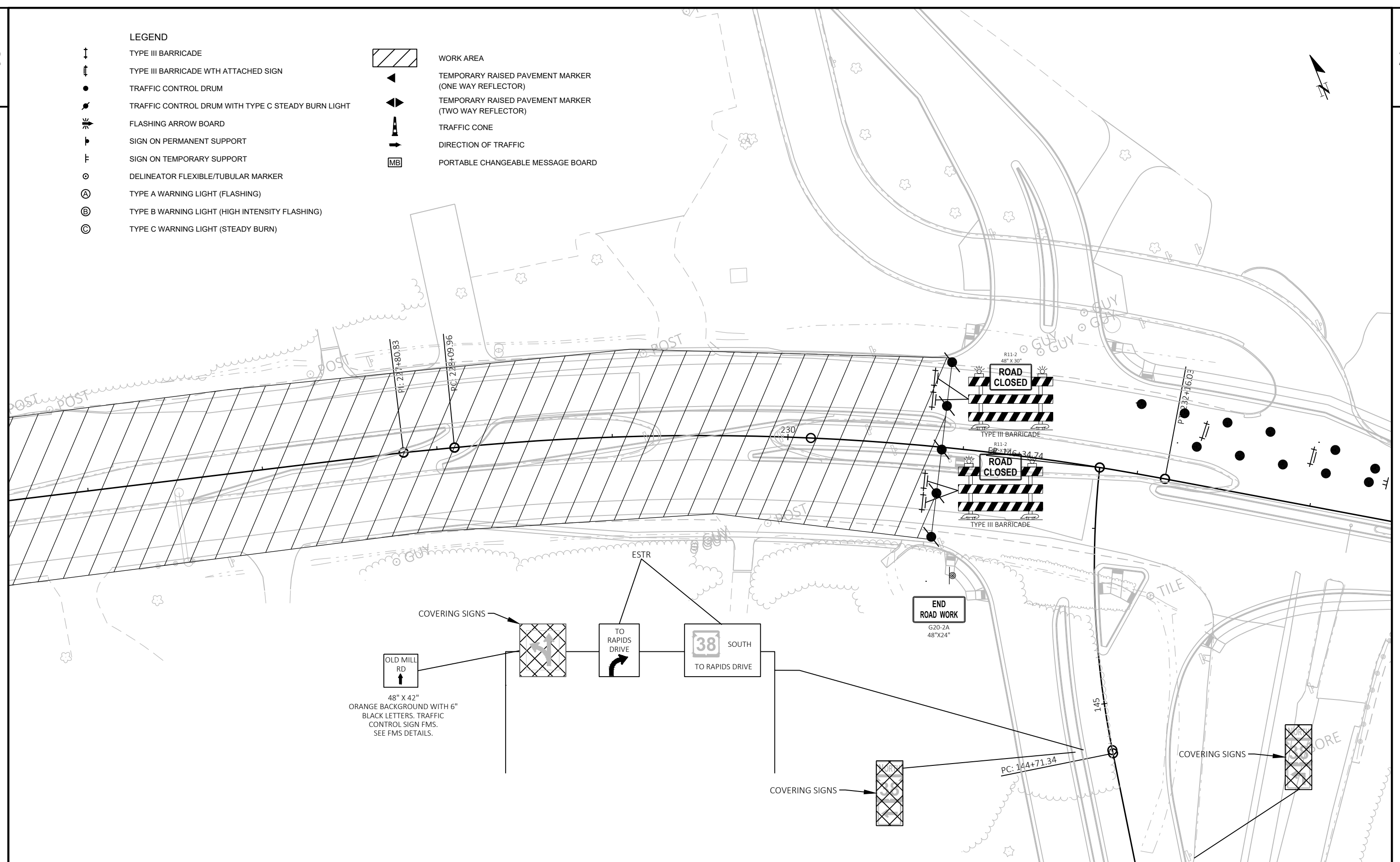
PLOT NAME :

PLOT SCALE : 1 IN:50 FT

WISDOT/CADDs SHEET 42

LEGEND

	TYPE III BARRICADE		WORK AREA
	TYPE III BARRICADE WITH ATTACHED SIGN		TEMPORARY RAISED PAVEMENT MARKER (ONE WAY REFLECTOR)
	TRAFFIC CONTROL DRUM		TEMPORARY RAISED PAVEMENT MARKER (TWO WAY REFLECTOR)
	TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT		TRAFFIC CONE
	FLASHING ARROW BOARD		DIRECTION OF TRAFFIC
	SIGN ON PERMANENT SUPPORT		PORTABLE CHANGEABLE MESSAGE BOARD
	SIGN ON TEMPORARY SUPPORT		
	DELINEATOR FLEXIBLE/TUBULAR MARKER		
	TYPE A WARNING LIGHT (FLASHING)		
	TYPE B WARNING LIGHT (HIGH INTENSITY FLASHING)		
	TYPE C WARNING LIGHT (STEADY BURN)		



PROJECT NO: 2290-22-70

HWY: STH 38

COUNTY: RACINE

TRAFFIC CONTROL-STAGE 1 & 2A

SHEET

PRE_141 E

FILE NAME : N:\PDS\C3D\22902200\SHEETSPLAN\025100-TC-1.DWG
LAYOUT NAME - TC_STAGE 1B_30

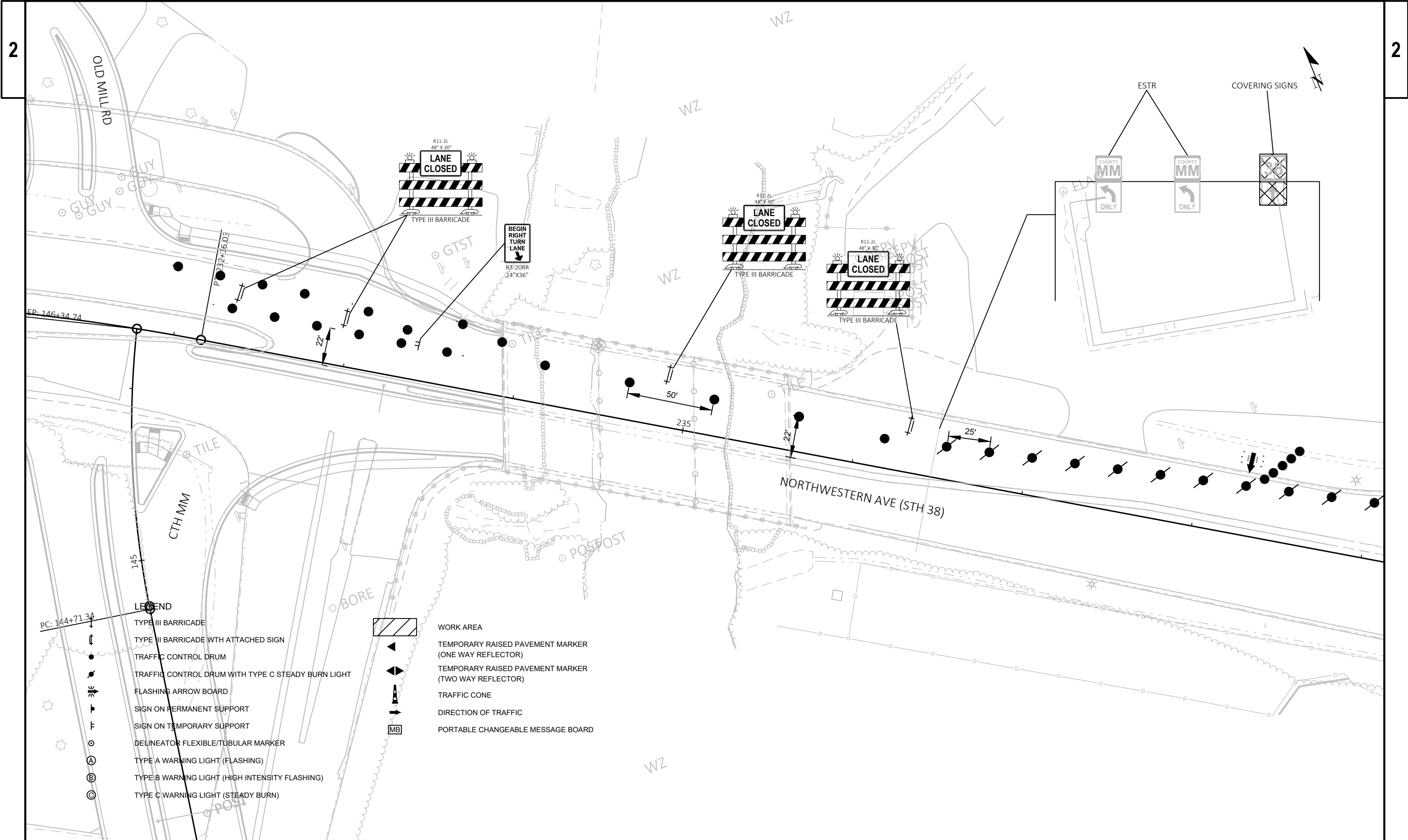
PLOT DATE : 4/21/2020 9:47 AM

PLOT BY : SMITH, CLAYTON L

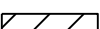
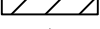
PLOT NAME :

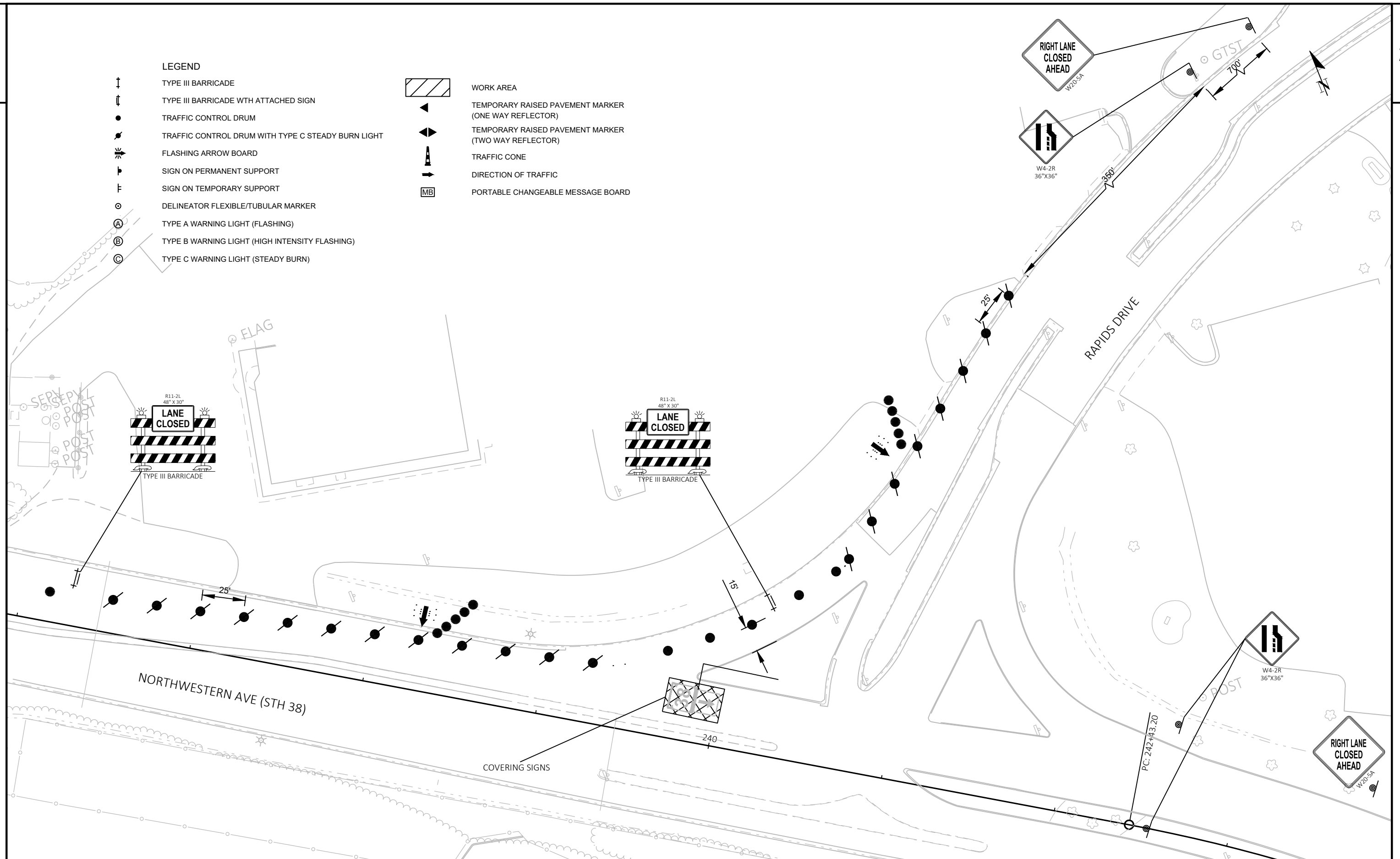
PLOT SCALE : 1 IN:50 FT

WISDOT/CADDs SHEET 42



LEGEND

	TYPE III BARRICADE		WORK AREA
	TYPE III BARRICADE WITH ATTACHED SIGN		TEMPORARY RAISED PAVEMENT MARKER (ONE WAY REFLECTOR)
	TRAFFIC CONTROL DRUM		TEMPORARY RAISED PAVEMENT MARKER (TWO WAY REFLECTOR)
	TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT		TRAFFIC CONE
	FLASHING ARROW BOARD		DIRECTION OF TRAFFIC
	SIGN ON PERMANENT SUPPORT		PORTABLE CHANGEABLE MESSAGE BOARD
	SIGN ON TEMPORARY SUPPORT		
	DELINEATOR FLEXIBLE/TUBULAR MARKER		
	TYPE A WARNING LIGHT (FLASHING)		
	TYPE B WARNING LIGHT (HIGH INTENSITY FLASHING)		
	TYPE C WARNING LIGHT (STEADY BURN)		



PROJECT NO: 2290-22-70

HWY: STH 38

COUNTY: RACINE

TRAFFIC CONTROL-STAGE 1 & 2A

SHEET

PRE_143 E

FILE NAME : N:\PDS\CD\22902200\SHEETS\PLAN\025100-TC-1.DWG
LAYOUT NAME - TC_STAGE 1B_32

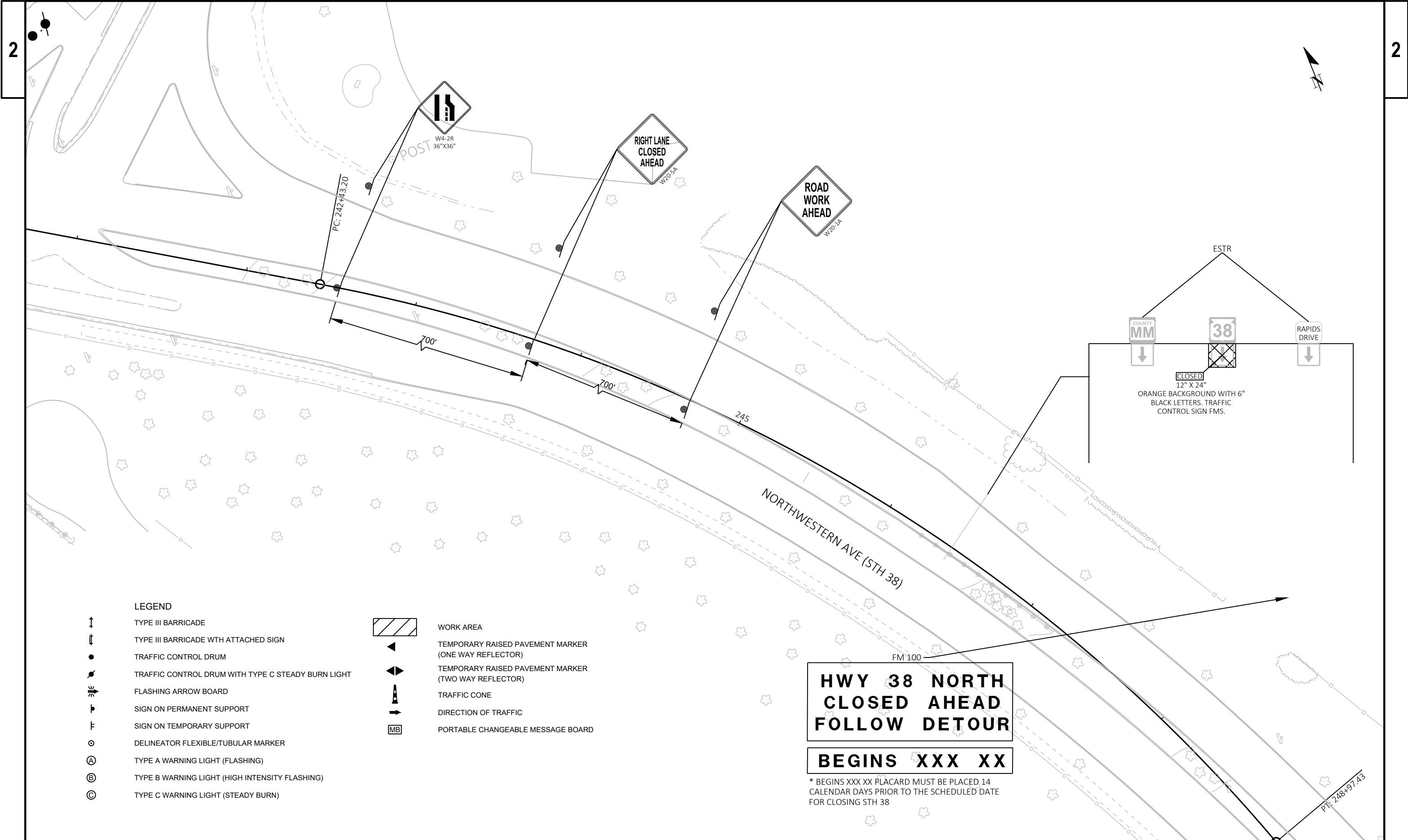
PLOT DATE : 4/21/2020 9:47 AM

PLOT BY : SMITH, CLAYTON L

PLOT NAME :

PLOT SCALE : 1 IN:50 FT

WISDOT/CADDs SHEET 42



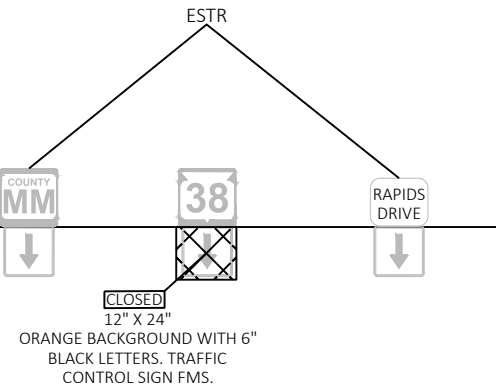
LEGEND

- | | | | |
|--|--|--|--|
| | TYPE III BARRICADE | | WORK AREA |
| | TYPE III BARRICADE WITH ATTACHED SIGN | | TEMPORARY RAISED PAVEMENT MARKER (ONE WAY REFLECTOR) |
| | TRAFFIC CONTROL DRUM | | TEMPORARY RAISED PAVEMENT MARKER (TWO WAY REFLECTOR) |
| | TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT | | TRAFFIC CONE |
| | FLASHING ARROW BOARD | | DIRECTION OF TRAFFIC |
| | SIGN ON PERMANENT SUPPORT | | PORTABLE CHANGEABLE MESSAGE BOARD |
| | SIGN ON TEMPORARY SUPPORT | | |
| | DELINEATOR FLEXIBLE/TUBULAR MARKER | | |
| | TYPE A WARNING LIGHT (FLASHING) | | |
| | TYPE B WARNING LIGHT (HIGH INTENSITY FLASHING) | | |
| | TYPE C WARNING LIGHT (STEADY BURN) | | |

**HWY 38 NORTH
CLOSED AHEAD
FOLLOW DETOUR**

BEGINS XXX XX

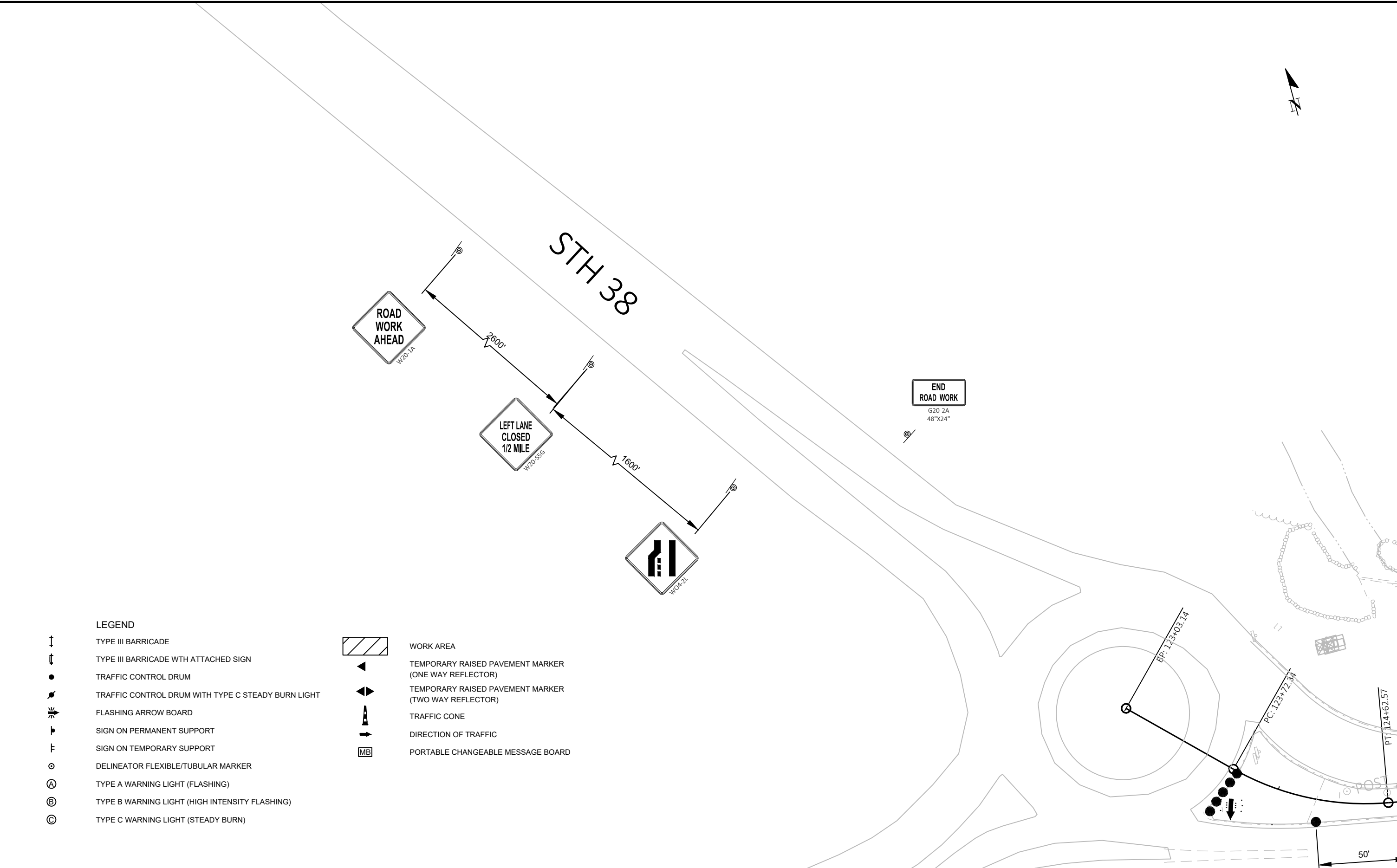
* BEGINS XXX XX PLACARD MUST BE PLACED 14 CALENDAR DAYS PRIOR TO THE SCHEDULED DATE FOR CLOSING STH 38





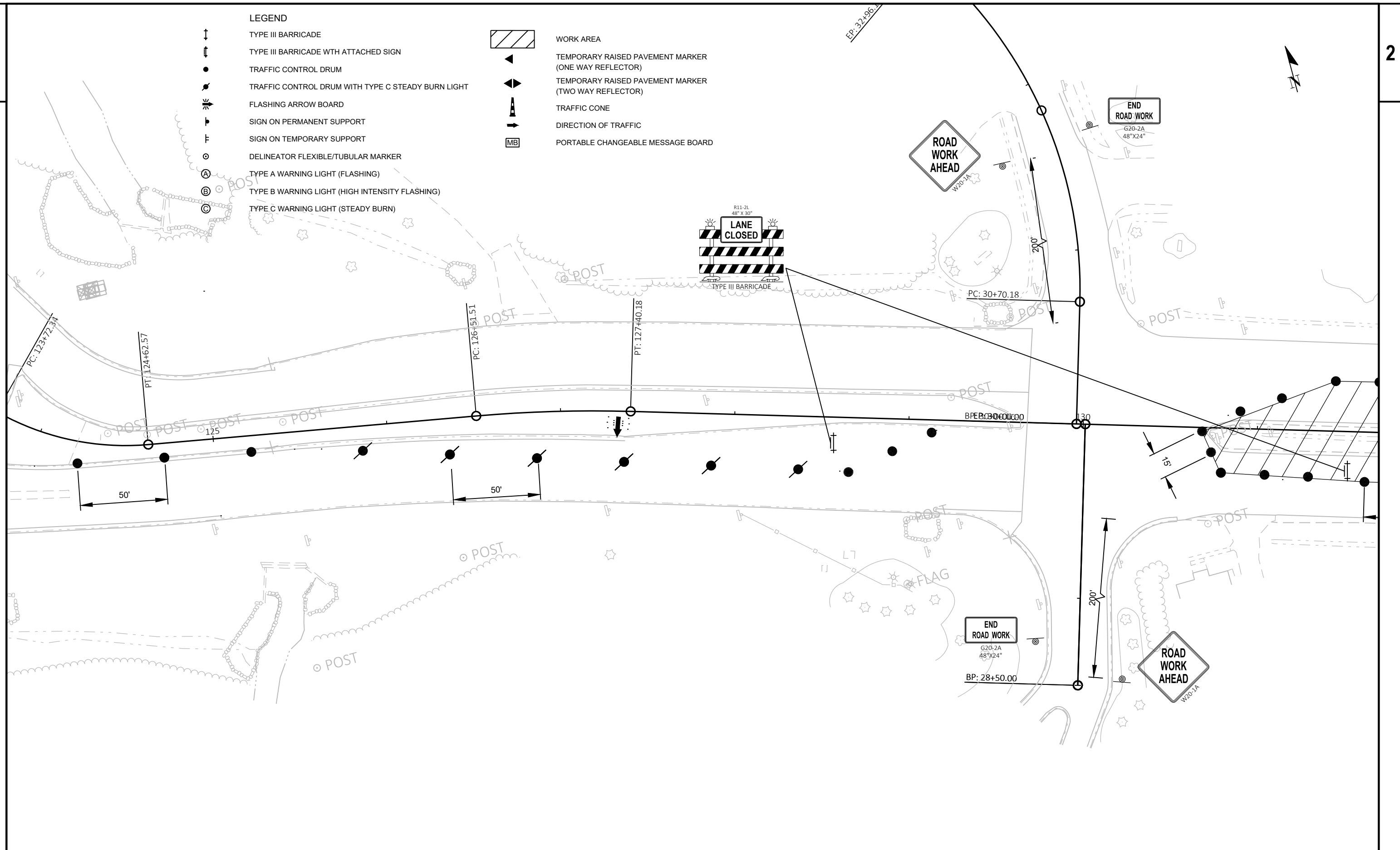
PORTABLE CHANGEABLE MESSAGE BOARD





LEGEND

- | | | | |
|---|--|----|--|
| ↑ | TYPE III BARRICADE | ▨ | WORK AREA |
| ↑ | TYPE III BARRICADE WITH ATTACHED SIGN | ◀ | TEMPORARY RAISED PAVEMENT MARKER (ONE WAY REFLECTOR) |
| ● | TRAFFIC CONTROL DRUM | ◀▶ | TEMPORARY RAISED PAVEMENT MARKER (TWO WAY REFLECTOR) |
| ● | TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT | ▲ | TRAFFIC CONE |
| ↗ | FLASHING ARROW BOARD | → | DIRECTION OF TRAFFIC |
| ┌ | SIGN ON PERMANENT SUPPORT | MB | PORTABLE CHANGEABLE MESSAGE BOARD |
| └ | SIGN ON TEMPORARY SUPPORT | | |
| ○ | DELINEATOR FLEXIBLE/TUBULAR MARKER | | |
| Ⓐ | TYPE A WARNING LIGHT (FLASHING) | | |
| Ⓑ | TYPE B WARNING LIGHT (HIGH INTENSITY FLASHING) | | |
| Ⓒ | TYPE C WARNING LIGHT (STEADY BURN) | | |



PROJECT NO: 2290-22-70

HWY: STH 38

COUNTY: RACINE

TRAFFIC CONTROL-STAGE 2B

SHEET

PRE_147 E

FILE NAME : N:\PDS\C3D\22902200\SHEETSP\025100-TC-2B.DWG
LAYOUT NAME - TC_STAGE 2_1

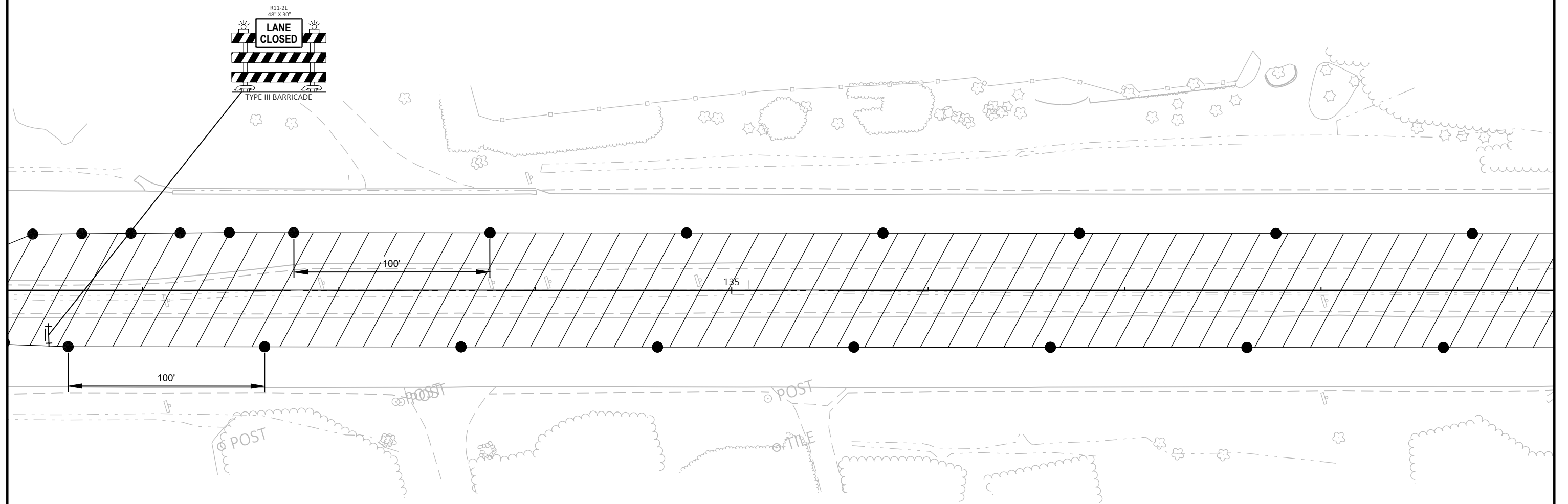
PLOT DATE : 4/21/2020 9:59 AM

PLOT BY : SMITH, CLAYTON L

PLOT NAME :

PLOT SCALE : 1 IN:50 FT

WISDOT/CADDs SHEET 42



LEGEND

- | | | | |
|--|--|--|---|
| | TYPE III BARRICADE | | WORK AREA |
| | TYPE III BARRICADE WTH ATTACHED SIGN | | TEMPORARY RAISED PAVEMENT MARKER
(ONE WAY REFLECTOR) |
| | TRAFFIC CONTROL DRUM | | TEMPORARY RAISED PAVEMENT MARKER
(TWO WAY REFLECTOR) |
| | TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT | | TRAFFIC CONE |
| | FLASHING ARROW BOARD | | DIRECTION OF TRAFFIC |
| | SIGN ON PERMANENT SUPPORT | | PORTABLE CHANGEABLE MESSAGE BOARD |
| | SIGN ON TEMPORARY SUPPORT | | |
| | DELINEATOR FLEXIBLE/TUBULAR MARKER | | |
| | TYPE A WARNING LIGHT (FLASHING) | | |
| | TYPE B WARNING LIGHT (HIGH INTENSITY FLASHING) | | |
| | TYPE C WARNING LIGHT (STEADY BURN) | | |

PROJECT NO: 2290-22-70

HWY: STH 38

COUNTY: RACINE

TRAFFIC CONTROL-STAGE 2B

SHEET

PRE_148

E

FILE NAME : N:\PDS\C3D\22902200\SHEETSPLAN\025100-TC-2B.DWG
LAYOUT NAME - TC_STAGE 2_2

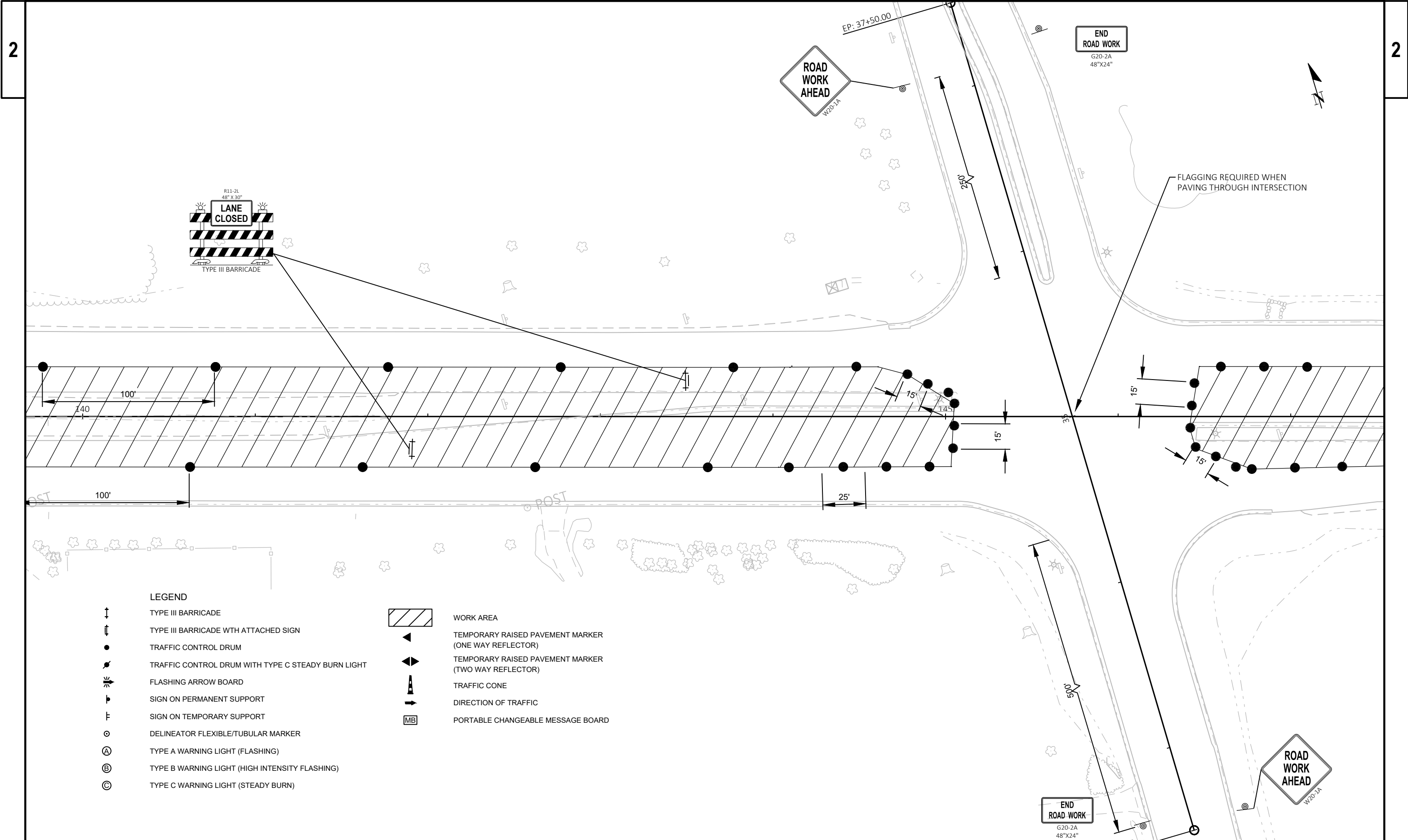
PLOT DATE : 4/21/2020 9:59 AM

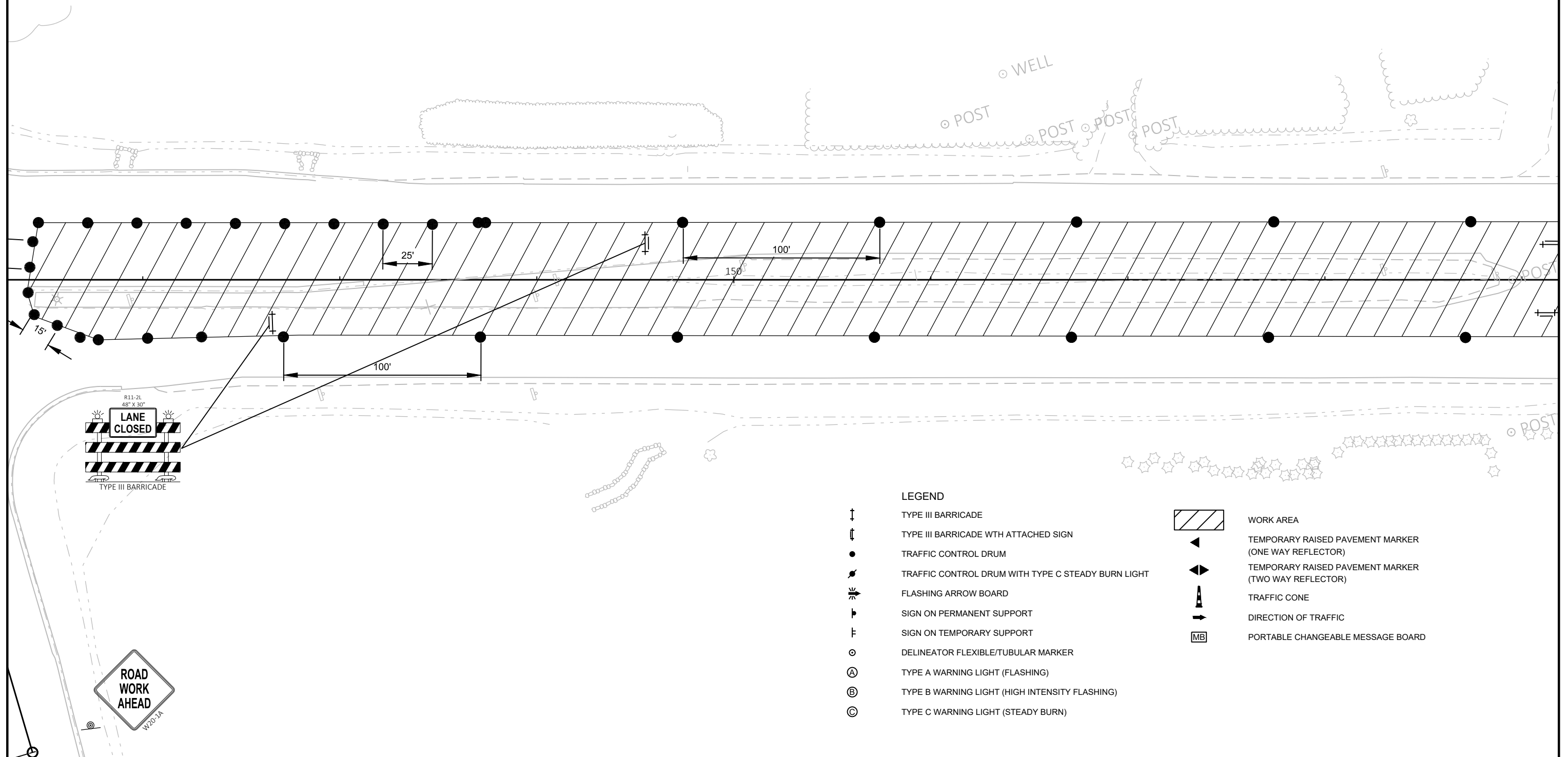
PLOT BY : SMITH, CLAYTON L

PLOT NAME :

PLOT SCALE : 1 IN:50 FT

WISDOT/CADDs SHEET 42





PROJECT NO: 2290-22-70

HWY: STH 38

COUNTY: RACINE

TRAFFIC CONTROL-STAGE 2B

SHEET

PRE_150

E

FILE NAME : N:\PDS\C3D\22902200\SHEETSPLAN\025100-TC-2B.DWG
LAYOUT NAME - TC_STAGE_2_4

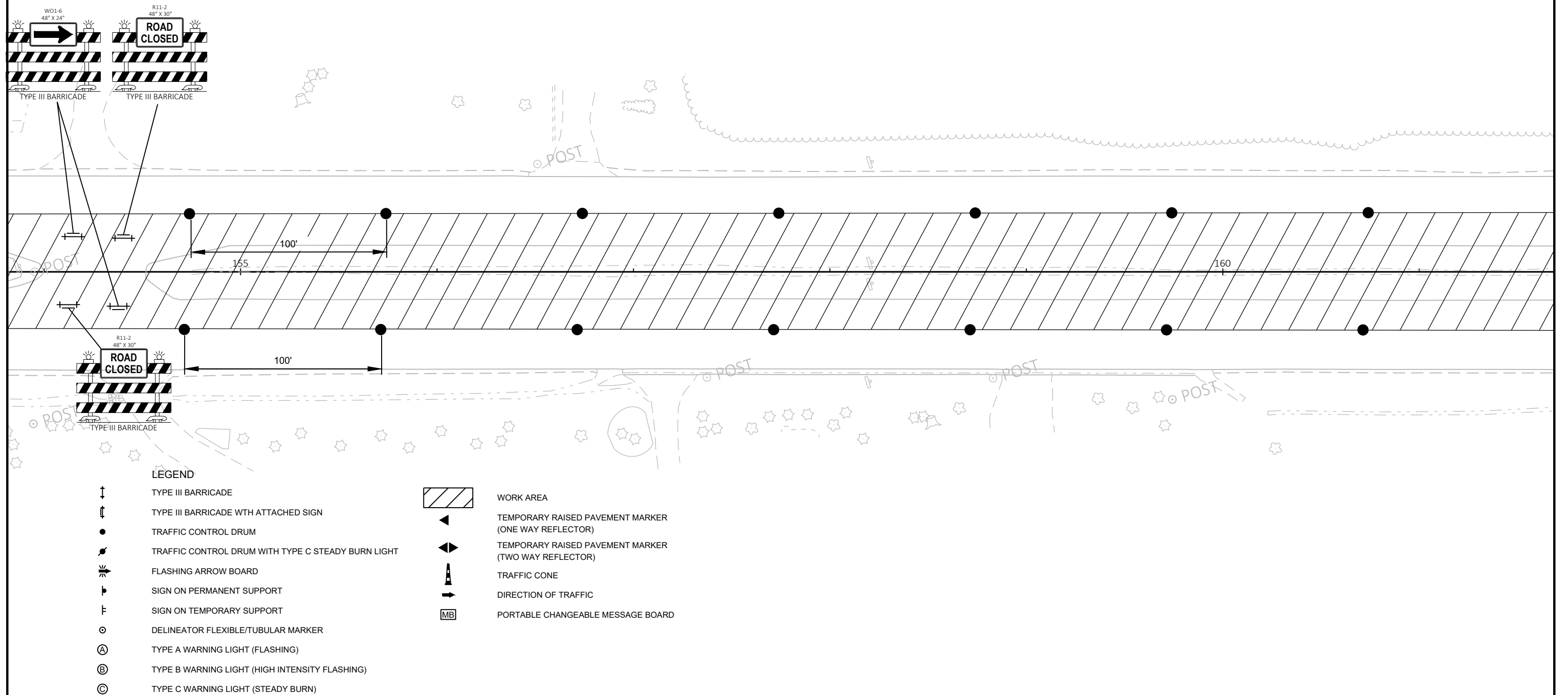
PLOT DATE : 4/21/2020 9:59 AM

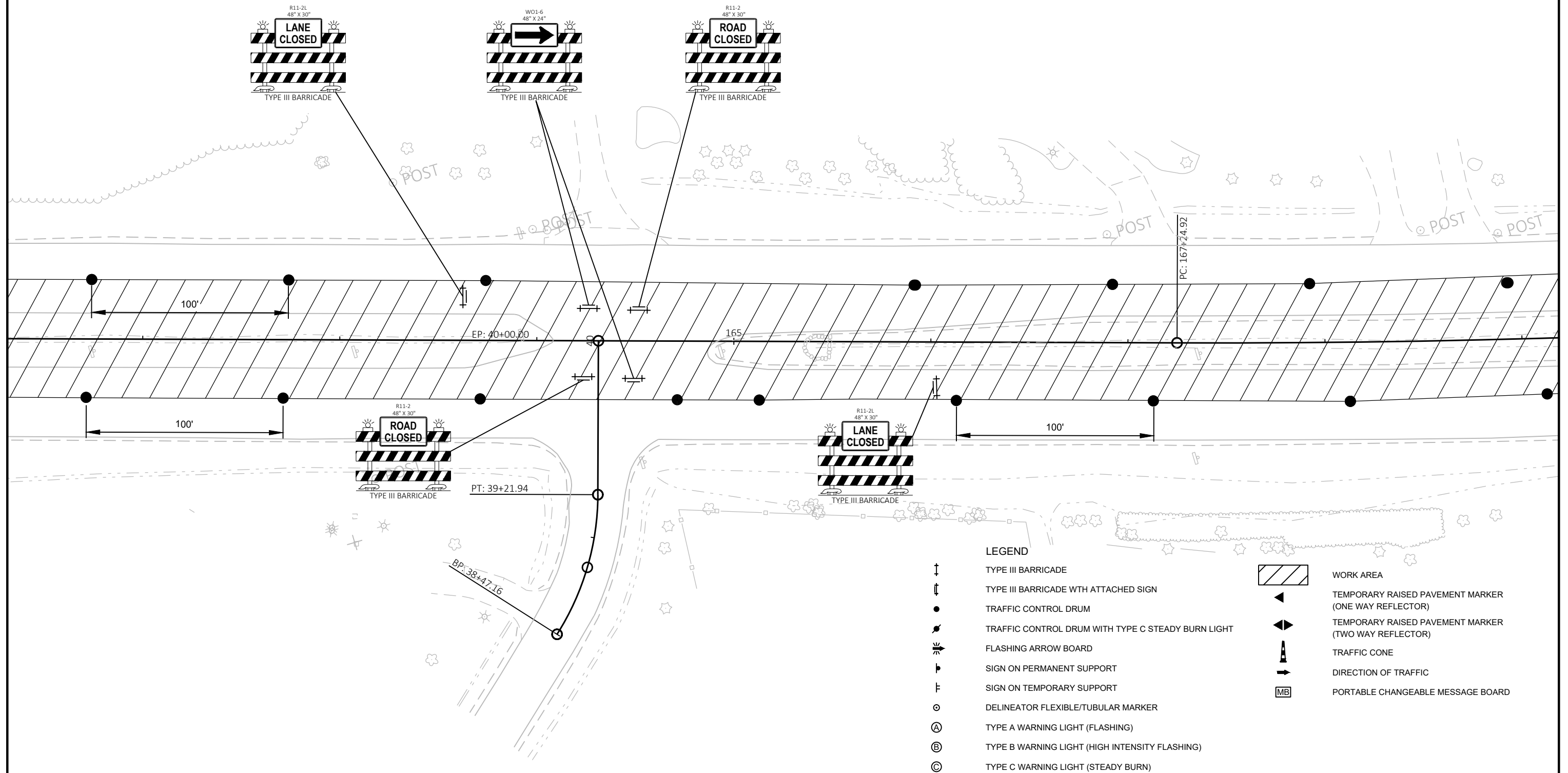
PLOT BY : SMITH, CLAYTON L

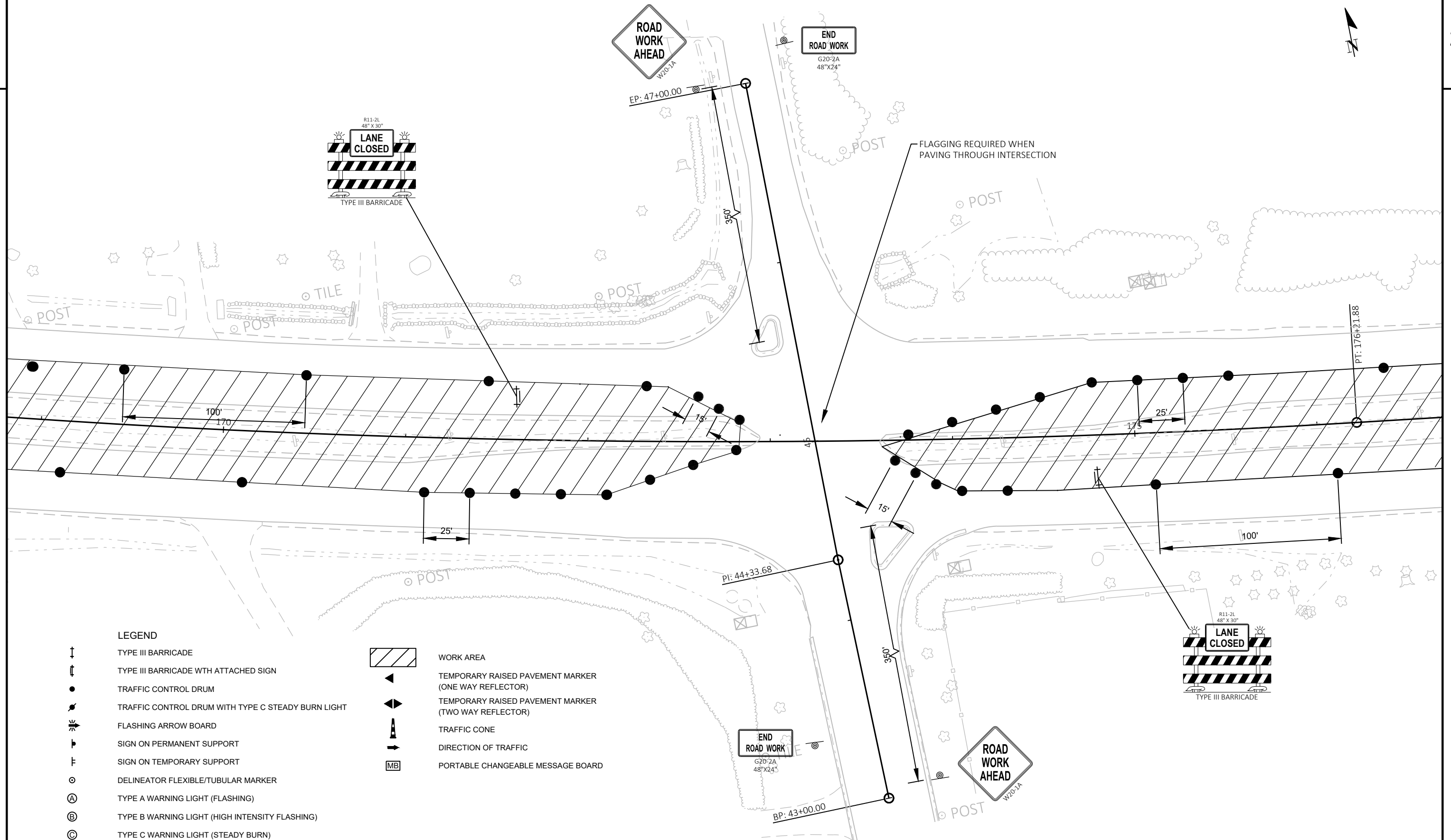
PLOT NAME :

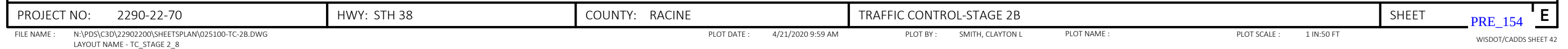
PLOT SCALE : 1 IN:50 FT

WISDOT/CADDs SHEET 42

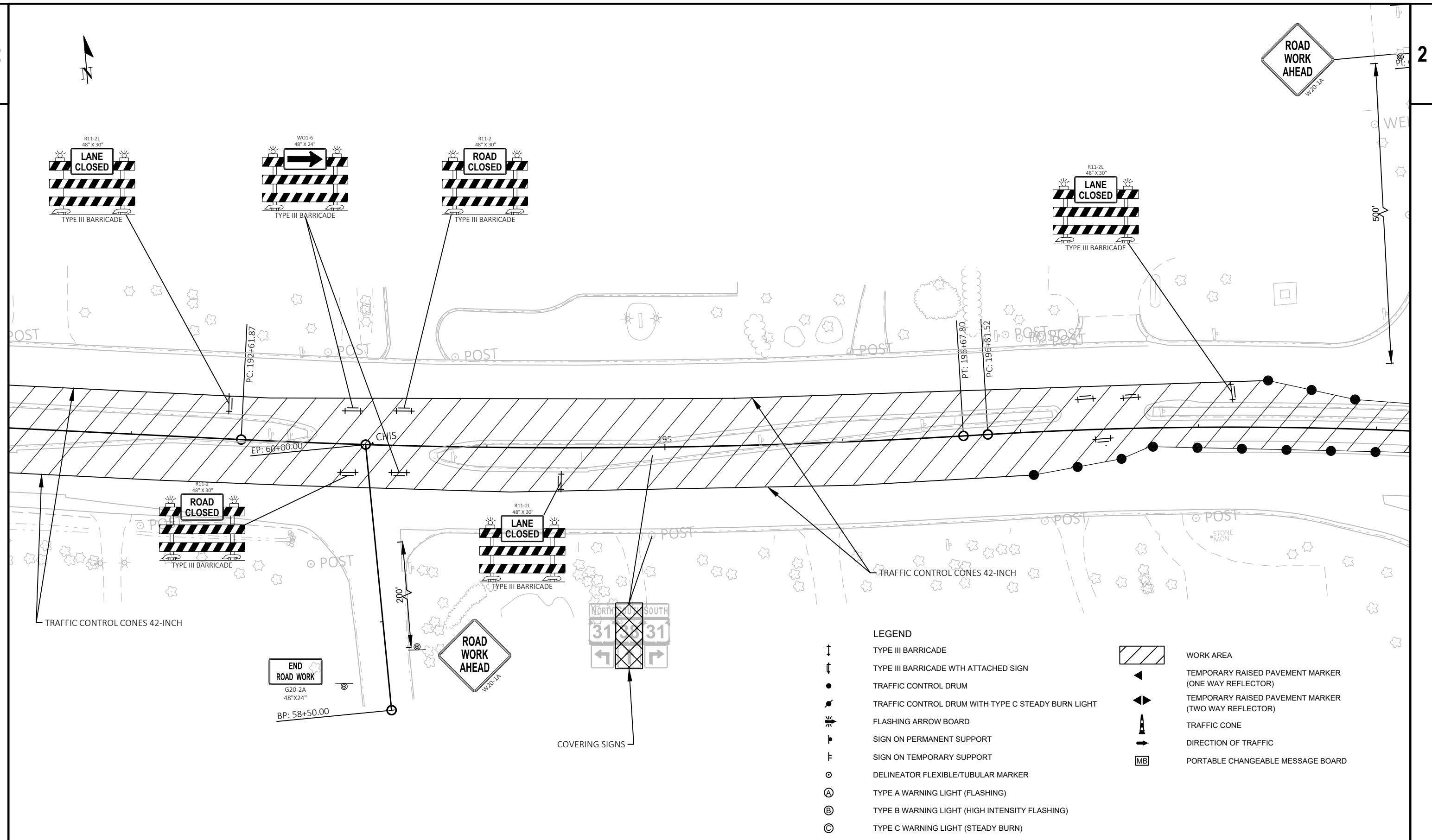


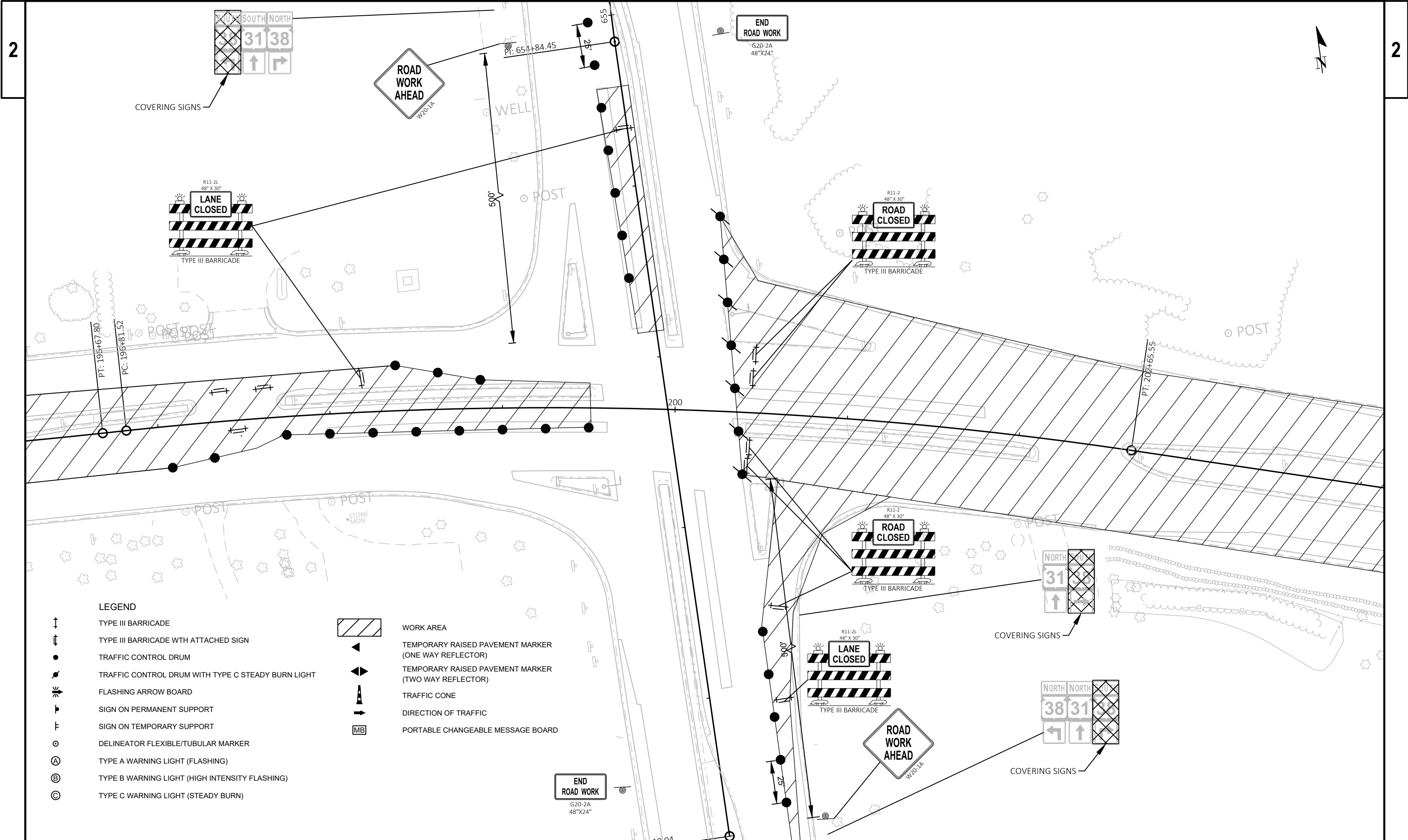












LEGEND

- | | | | |
|----|--|----|--|
| ↑ | TYPE III BARRICADE | ▨ | WORK AREA |
| ↑↓ | TYPE III BARRICADE WITH ATTACHED SIGN | ◀ | TEMPORARY RAISED PAVEMENT MARKER (ONE WAY REFLECTOR) |
| ● | TRAFFIC CONTROL DRUM | ◀▶ | TEMPORARY RAISED PAVEMENT MARKER (TWO WAY REFLECTOR) |
| ● | TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT | ▲ | TRAFFIC CONE |
| ⚡ | FLASHING ARROW BOARD | → | DIRECTION OF TRAFFIC |
| ⌚ | SIGN ON PERMANENT SUPPORT | MB | PORTABLE CHANGEABLE MESSAGE BOARD |
| ⌚ | SIGN ON TEMPORARY SUPPORT | | |
| ○ | DELINEATOR FLEXIBLE/TUBULAR MARKER | | |
| Ⓐ | TYPE A WARNING LIGHT (FLASHING) | | |
| Ⓑ | TYPE B WARNING LIGHT (HIGH INTENSITY FLASHING) | | |
| Ⓒ | TYPE C WARNING LIGHT (STEADY BURN) | | |

PROJECT NO: 2290-22-70

HWY: STH 38

COUNTY: RACINE

TRAFFIC CONTROL-STAGE 2B

SHEET

PRE_157

E

FILE NAME : N:\PDS\C3D\22902200\SHEETSP\PLAN\025100-TC-2B.DWG
LAYOUT NAME - TC_STAGE 2_11

PLOT DATE : 4/21/2020 9:59 AM

PLOT BY : SMITH, CLAYTON L

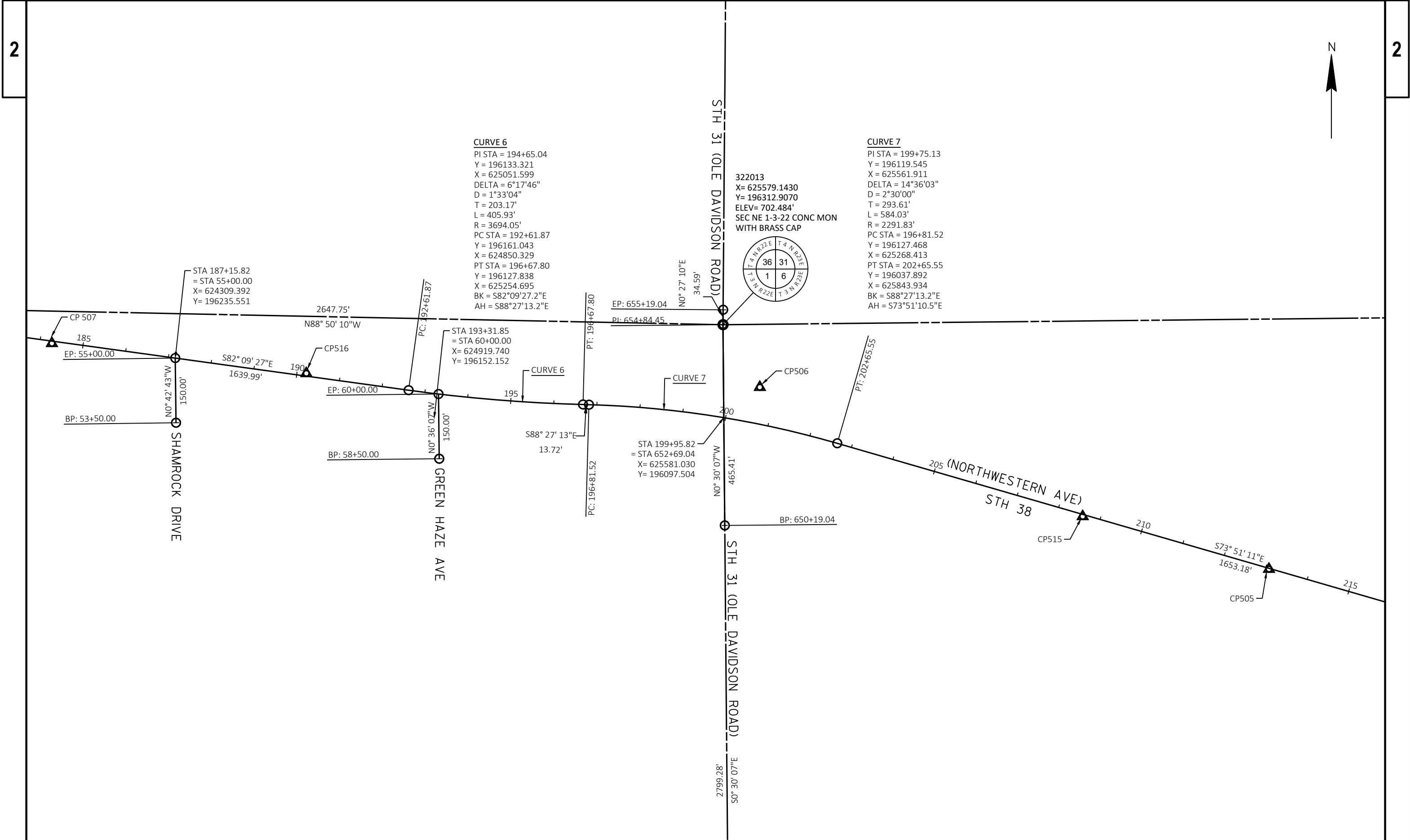
PLOT NAME :

PLOT SCALE : 1 IN:50 FT

WISDOT/CADDs SHEET 42





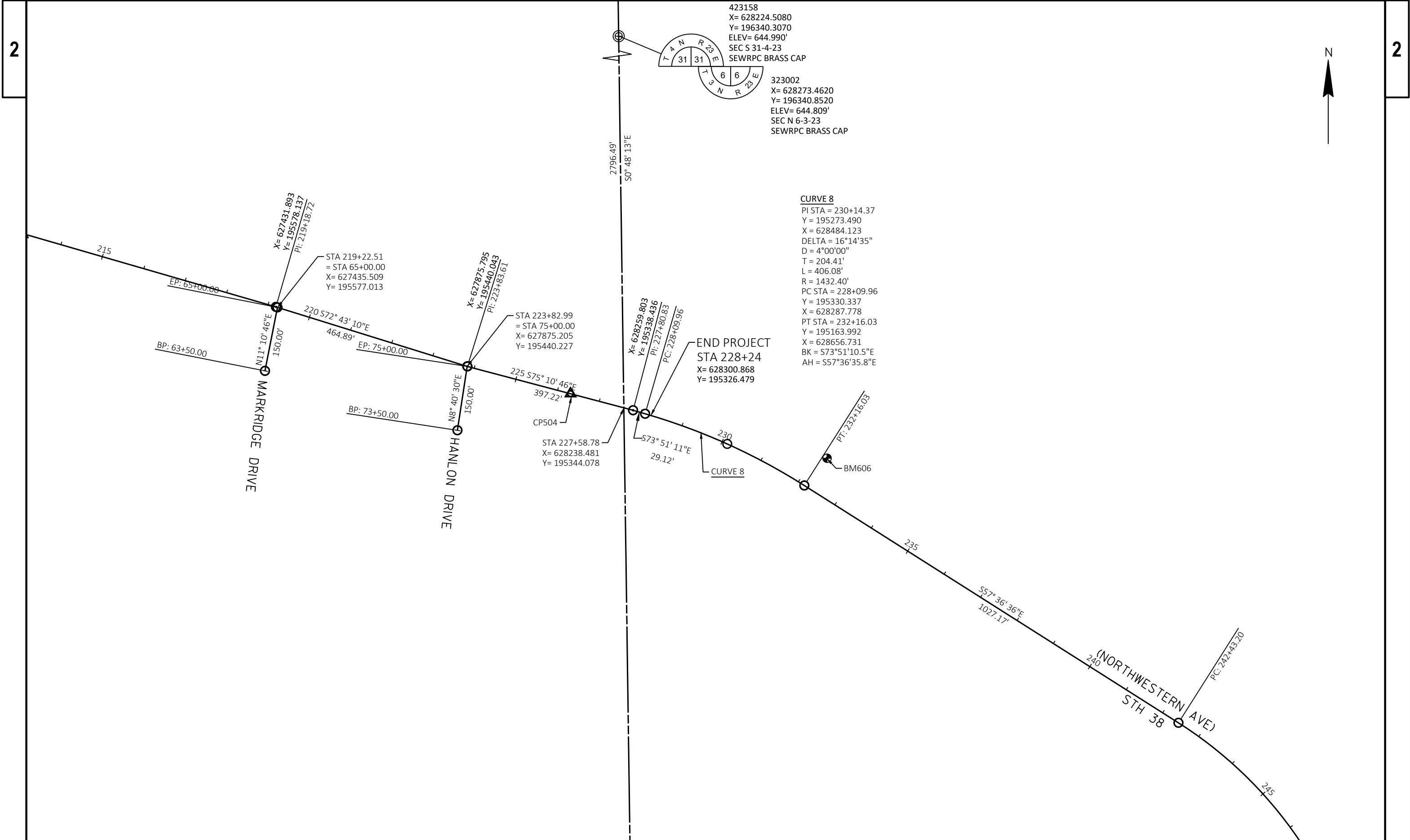


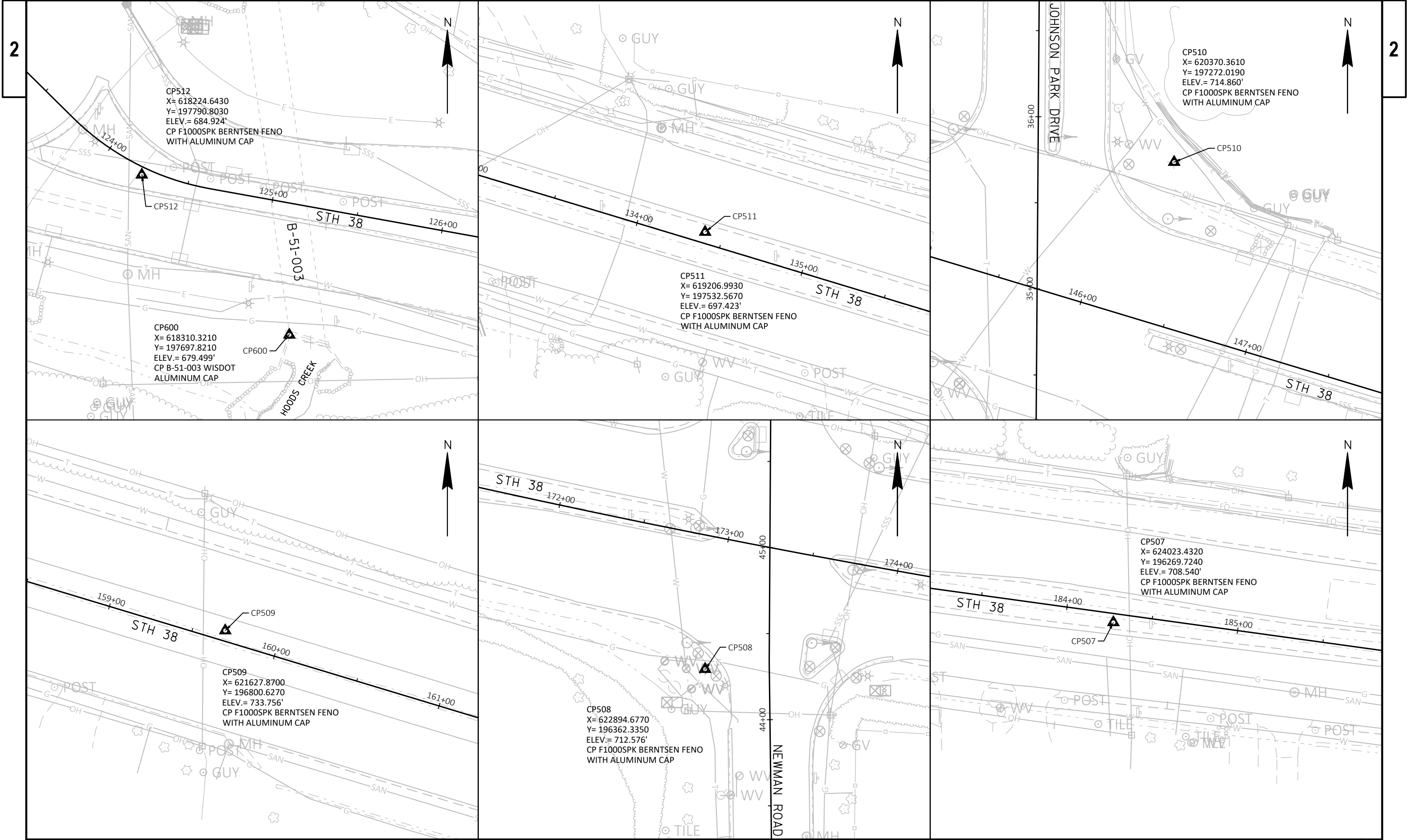
CURVE 6
PI STA = 194+65.04
Y = 196133.321
X = 625051.599
DELTA = 6°17'46"
D = 1°33'04"
T = 203.17'
L = 405.93'
R = 3694.05'
PC STA = 192+61.87
Y = 196161.043
X = 624850.329
PT STA = 196+67.80
Y = 196127.838
X = 625254.695
BK = S82°09'27.2"E
AH = S88°27'13.2"E

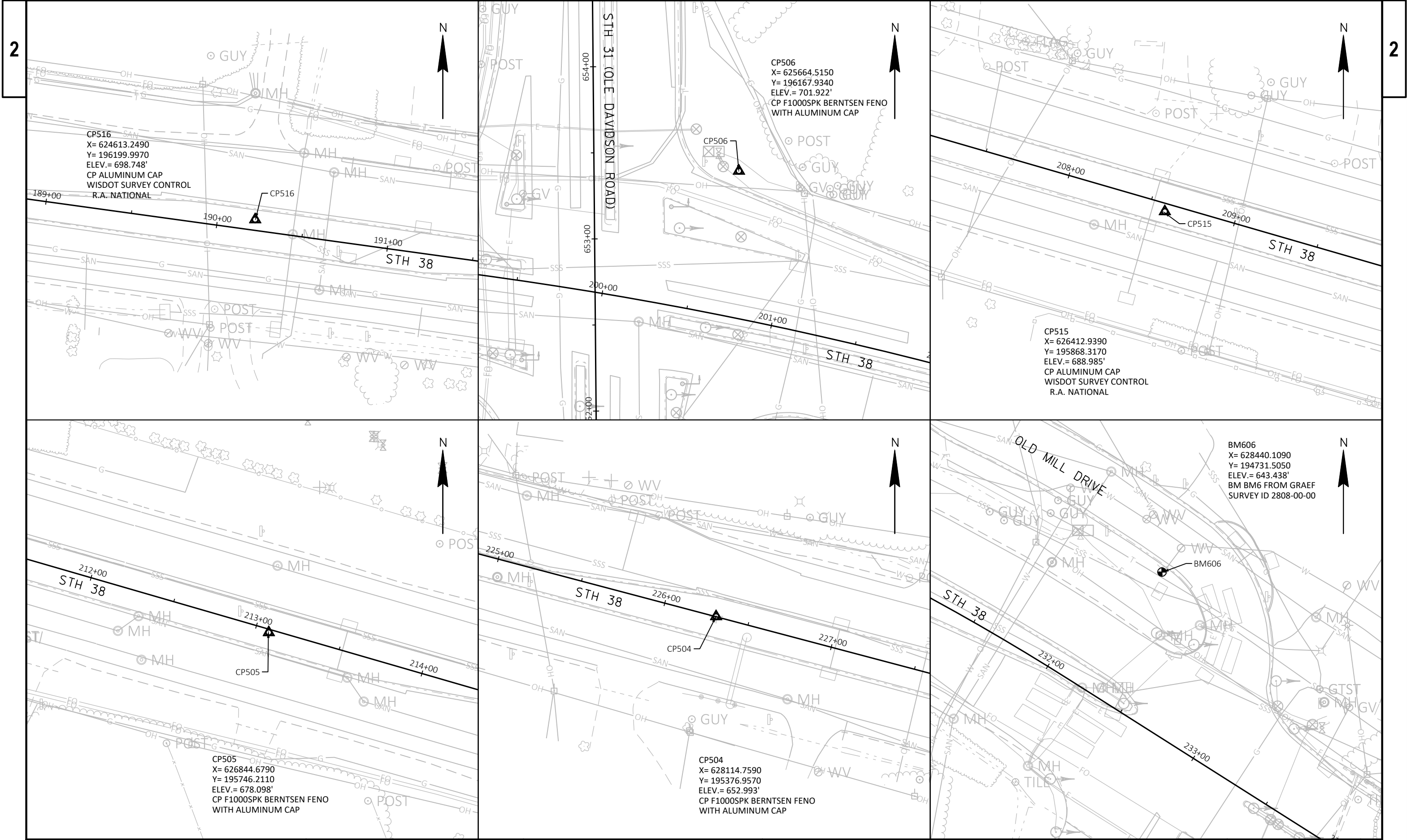
CURVE 7
PI STA = 199+75.13
Y = 196119.545
X = 625561.911
DELTA = 14°36'03"
D = 2°30'00"
T = 293.61'
L = 584.03'
R = 2291.83'
PC STA = 196+81.52
Y = 196127.468
X = 625268.413
PT STA = 202+65.55
Y = 196037.892
X = 625843.934
BK = S88°27'13.2"E
AH = S73°51'10.5"E

322013
X= 625579.1430
Y= 196312.9070
ELEV= 702.484'
SEC NE 1-3-22 CONC MON
WITH BRASS CAP









REMOVING CONCRETE PAVEMENT

				204.0100	204.0105	204.0109S
				REMOVING	BUTT	PARTIAL
				CONCRETE	JOINTS	DEPTH
				PAVEMENT		REMOVAL
LOCATION				SY	SY	SF
STAGE 2A						
STH 38	200+50	-	227+53 RT	0	0	58,366
	200+50	-	227+25 LT	147	0	57,750
SIDE ROADS				0	0	18,904
STH 31	651+03	-	654+57	0	0	37,925
SUBTOTAL				147	0	172,945
STAGE 1						
STH 38	185+65	-	199+50 RT			23,662
	184+50	-	199+50 LT			26,498
GREEN HAZE AVE					13	
STA 197+50 LT					8	
SUBTOTAL				0	21	50,160
STAGE 2B						
STH 38	185+65	-	199+50 RT	0	0	15,235
	184+50	-	199+50 LT	0	0	16,500
MEDIAN OPENINGS						17,195
SUBTOTAL				0	0	48,930
TOTAL				147	21	272,035

REMOVING ASPHALTIC SURFACE

				204.0115	204.0110	204.0125
				BUTT	REMOVING	
				JOINTS	ASPHALTIC	MILLING
					SURFACE	
LOCATION				SY	SY	TON
STAGE 2A						
STH 38	200+50	-	227+53 RT	122	2750	
	200+50	-	227+25 LT	127	1980	
STH 31	651+03	-	651+53	284		
	651+46	-	651+96	197		
	653+63	-	654+13	187		
	654+07	-	654+57	267		
SIDE ROADS				0		40
SUBTOTAL				1,184	4,730	40
STAGE 1						
STH 38	129+65	-	186+65 RT	0	0	3,360
	129+65	-	185+50 LT	0	0	3,360
	186+60	-	192+93 RT	0	550	0
	185+50	-	189+05 LT	0	350	0
SIDE ROADS				0		768
SUBTOTAL				0	900	7,488
STAGE 2B						
STH 38	129+65	-	186+65 RT	0		2,713
	129+65	-	185+50 LT	0		2,630
MEDIAN OPENINGS						835
SUBTOTAL				0	0	6,178
BRIDGES						
B-51-54				378		
B-51-74				578		
SUBTOTAL				956	0	0
TOTAL				2,140	5,630	13,706

REMOVING CURB & GUTTER

			204.0150
			REMOVING
			CURB AND
			GUTTER
	STATION	- STATION	LF
STH 38			
	189+26	189+46	20
	194+57	195+00	43
	197+04	197+91	87
	196+66	197+91	125
	202+10	203+00	90
	202+10	202+64	54
	202+31	202+48	17
	202+65	202+90	45
DRIVEWAYS			
	191+26	191+66	40
	193+13	193+76	63
	194+71	194+89	18
	195+71	196+01	30
	196+06	196+32	26
	197+14	197+38	24
	197+68	197+92	24
	202+07	202+31	24
	223+63	223+85	22
	224+07	224+27	20
	224+74	224+96	22
	225+36	225+58	22
STH 38			
	142+82	145+84	350
	173+51	173+76	63
		TOTAL	1,229

REMOVING GUARDRAIL

				204.0165
				REMOVING
				GUARDRAIL
DESCRIPTION	STATION	- STATION	LF	
STH 38	226+30	226+68	38	
TOTAL			38	

CATEGORY 0010

	690.0150	690.0250
	SAWING ASPHALT	SAWING CONCRETE**
LOCATION	LF	LF
STH 38		
129+68	111	
130+94 RT	33	
132+05 LT	14	
133+56 RT	47	
135+40 RT	39	
139+24 RT	11	
144+50 RT	410	
154+45 RT	45	
156+89 RT	14	
159+90 RT	9	
164+35 LT	62	
167+10 LT	37	
168+52 LT	65	
169+84 LT	22	
170+04 RT	45	
182+40 LT	35	
183+44 RT	39	
183+88 RT	29	
185+23 RT	52.5	
184+50 LT	35	
185+65 RT	36	
187+20 LT	43	
189+93 RT	19	
190+20 RT	26	
191+45 LT	33	
191+91 RT	21	
193+22 LT	12	
193+58 LT	28	
195+87 RT		19
197+26 RT	17.5	
197+43 RT		87
197+43 LT		125
197+50 LT		34.5
197+80 RT		18
202+21 RT	21.5	
202+40 LT		69
202+53 RT		82.5
206+75 RT	27	
207+22 LT	28	
215+90 RT	59	
218+00 LT	77	
223+73 LT	13.5	
224+16 LT	14.5	
224+84 LT	13.5	
225+45 LT	10.5	
225+90 RT	36.5	
227+00 RT	34.5	
227+25 LT		22
227+53 RT		22
SUBTOTAL	1725	479

	690.0150	690.0250
	SAWING ASPHALT	SAWING CONCRETE**
LOCATION	LF	LF
TAURUS RD		
29+09	35	
30+86	39	
EMMERTSEN RD		
33+57	46	
35+72	83	
CHAPEL LN		
39+20	28	
NEWMAN RD		
43+95	47	
ISLAND	104	
46+03	39	
MANOR AVE		
49+21	21	
SHAMROCK DR		
54+31	32	
GREEN HAZE AVE		
59+45		50.5
STH 31		
651+03 RT		58.5
651+46 LT		37.5
654+13 RT		33.5
654+57 LT		53.5
CROSSRIDGE DR		
216+21 LT	38	
MARKRIDGE DR		
64+51	32.5	
MILLER LN		
70+56	40	
HANLON DR		
74+48	33.5	
B-51-54	82	
B-51-74	106	
SUBTOTAL	806	234
BASE PATCHING		7500
TOTAL	2,530	8,213

NOTE:
**ADDITIONAL QUANTITIES SHOWN ELSEWHERE IN PLAN

APRON ENDWALLS				
	520.8000	522.1024	633.5200	SPV.0060 02
	CONCRETE COLLARS	APRON ENDWALL	MARKERS	GRADING SLOPED
	FOR PIPE	24-INCH	CULVERT END	ENDWALL AREA
LOCATION	EACH	EACH	EACH	EACH
SHAMROCK DR				
187+00	1	1	2	1
TOTAL	1	1	2	1

CATEGORY 0010

CONCRETE REPAIR ITEMS				
390.0303	390.0403	416.1720	416.1725	
BASE PATCHING CONCRETE	BASE PATCHING CONCRETE SHES	CONCRETE PAVEMENT REPLACEMENT	CONCRETE PAVEMENT REPLACEMENT SHES	
LOCATION	SY	SY	SY	SY
STH 38				
186+53 LT	27	0	0	0
186+63 LT	0	0	31	0
186+80 RT	13	0	0	0
187+46 RT	7	0	0	0
187+99 RT	6	0	0	0
188+25 RT	10	0	0	0
189+17 LT	0	0	15	0
190+63 RT	8	0	0	0
190+85 RT	7	0	0	0
191+26 LT	7	0	0	0
191+65 RT	0	0	24	0
191+80 LT	6	0	0	0
192+38 RT	7	0	0	0
192+38 RT	0	0	53	0
193+04 RT	0	0	73	0
193+51 LT	0	0	27	0
193+82 RT	0	0	23	0
193+84 LT	10	0	0	0
194+04 RT	11	0	0	0
194+57 RT	0	0	56	0
194+96 RT	0	0	18	0
195+10 RT	7	0	0	0
195+88 RT	21	0	0	0
196+18 RT	0	0	30	0
196+32 RT	0	0	17	0
197+73 RT	0	0	56	0
198+83 RT	0	0	78	0
199+55 RT	0	0	0	78
199+64 RT	0	9	0	0
199+92 RT	0	16	0	0
199+98 RT	0	12	0	0
200+19 RT	0	0	0	23
200+57 LT	0	0	60	0
200+89 RT	11	0	0	0
201+05 RT	0	0	25	0
201+17 LT	0	0	16	0
201+60 LT	0	0	33	0
201+77 LT	0	0	189	0
202+31 RT	0	0	22	0
203+05 RT	8	0	0	0
203+17 LT	0	0	42	0
203+20 RT	16	0	0	0
203+78 RT	7	0	0	0
205+62 RT	7	0	0	0
206+09 RT	7	0	0	0
SUBTOTAL	205	37	889	102

390.0303	390.0403	416.1720	416.1725	
BASE PATCHING CONCRETE	BASE PATCHING CONCRETE SHES	CONCRETE PAVEMENT REPLACEMENT	CONCRETE PAVEMENT REPLACEMENT SHES	
LOCATION	SY	SY	SY	SY
STH 38				
207+35 LT	7	0	0	0
208+30 LT	11	0	0	0
212+08 LT	7	0	0	0
212+14 RT	15	0	0	0
212+31 RT	0	0	106	0
212+77 LT	0	0	49	0
212+86 RT	0	0	23	0
213+30 RT	7	0	0	0
213+33 LT	12	0	0	0
213+91 RT	14	0	0	0
214+39 LT	26	0	0	0
215+57 RT	7	0	0	0
215+72 RT	14	0	0	0
216+23 RT	7	0	0	0
216+56 RT	4	0	0	0
218+07 RT	9	0	0	0
219+39 LT	0	0	20	0
219+57 LT	13	0	0	0
219+89 LT	0	0	44	0
220+20 LT	12	0	0	0
220+53 LT	8	0	0	0
220+59 LT	4	0	0	0
221+82 LT	12	0	0	0
221+90 RT	22	0	0	0
222+98 RT	0	0	43	0
223+34 RT	4	0	0	0
223+88 RT	7	0	0	0
224+19 RT	12	0	0	0
225+18 RT	0	0	32	0
226+43 RT	12	0	0	0
227+06 RT	9	0	0	0
UNDISTRIBUTED	380	700	450	750
STH 31				
651+45 LT	0	8	0	0
651+45 RT	0	0	0	37
652+07 RT	0	0	0	47
653+03 RT	0	7	0	0
653+06 LT	0	0	22	0
653+10 LT	0	25	0	0
653+11 LT	0	7	0	0
653+28 RT	11	0	0	0
653+40 RT	0	0	0	40
653+56 LT	0	0	39	0
653+78 RT	0	29	0	0
653+95 LT	0	0	0	33
654+13 LT	7	0	0	0
UNDISTRIBUTED	150	150	150	150
SUBTOTAL	804	926	978	1057
TOTAL	1009	963	1866	1159

CATEGORY 0010

PROJECT NO: 2290-22-70

HWY: STH 38

COUNTY: RACINE

MISCELLANEOUS QUANTITIES

SHEET:

E

FILE NAME :

PLOT DATE :

PLOT BY :

PLOT NAME :

PLOT SCALE : 1:1

BASE AGGREGATE

LOCATION	305.0120		305.0110**	310.0110**
	1 1/4-INCH		3/4-INCH	BASE AGGREGATE
	DENSE	DENSE	DENSE	OPEN GRADED
TON				
STH 38				
142+82	145+84	222		
218+20	218+80	49		196
186+60	192+93	246		
203+06	227+75	960		
185+50	189+05	138		
204+00	222+40	716		
225+95	227+25	51		
SHOULDERS				
186+60	192+93		35	
203+06	227+75		137	
185+50	189+05		20	
204+00	222+40		102	
225+95	227+25		7	
130+55	186+50		138	
130+55	185+50		136	
	B-51-54		10	
	B-51-74		10	
UNDISTRIBUTED		70		
TOTAL		2,452	595	196

NOTE:
**ADDITIONAL QUANTITY SHOWN ELSEWHERE IN PLAN

CONSTRUCTION STAKING

	650.4500		650.5500		650.8000		650.9910		650.9920	
	SUBGRADE		CURB GUTTER & CURB AND GUTTER		RESURFACING REFERENCE		SUPPLEMENTAL CONTROL (PROJECT)		SLOPE STAKES	
PROJECT	LF		LF		LF		LS		LF	
STH 38	400		350		9,820		1		350	
TOTAL		400	350		9,820		1		350	

EXCAVATION

	205.0100	311.0110
	EXCAVATION	BREAKER
	COMMON	RUN
LOCATION	CY	TON
EMMERTSEN RT TL	300	
STA218+20 - 218+80	200	
UNDISTRIBUTED	400	300
TOTAL	900	300

WATER

LOCATION	624.0100		SPV.0120.01	
	WATER		WATER FOR SEEDED AREAS	
	MGAL		MGAL	
PROJECT	2		REMARKS	
			BASE AGGREGATE	
			SEEDED AREAS	
TOTAL		2	2	

SHOULDERS

211.0400 305.0500

PREPARE
FOUNDATION FOR
ASHPALTIC
SHOULDERS SHAPING
SHOULDERS

STATION		STATION		STA	STA
STH 38 SB					
125+36	to	186+25		0	102
186+25	to	228+24		42	0
SUBTOTAL				42	102
STH 38 NB					
125+36	to	185+50		0	102
185+50	to	228+24		43	0
SUBTOTAL				43	102
TOTAL				85	204

CATEGORY 0010

ASPHALTIC REPAIR ITEMS	
390.0203	
BASE PATCHING ASPHALTIC	
LOCATION	SY
STH 38	
188+50 LT	5
191+66 RT	84
203+04 RT	14
204+32 LT	4
222+01 LT	3
225+97 LT	40
TOTAL	150

ASPHALTIC PAVEMENT ITEMS						
		460.6223		460.6224	460.5224	455.0605
		HMA PAVEMENT 3 MT 58-28-S		HMA PAVEMENT 4 MT 58-28 S	HMA PAVEMENT 4 LT 58-28 S	TACK COAT
LOCATION	STATION	STATION	TON	TON	TON	GAL
STAGE 2A						
STH 38 SB	200+34	- 227+53 RT	886	690		801
SHOULDERS	200+34	- 227+53 RT	365	285		330
STH 38 NB	200+34	- 227+25 LT	875	680		791
SHOULDERS	200+34	- 227+25 LT	340	265		307
STH 31	651+03	- 654+57	583	455		515
	SIDE ROADS		231	410		334
SUB-TOTAL			3,280	2,785		3,079
STAGE 1						
STH 38 SB	129+65	- 186+65 RT	1,974	1,274		1,481
OUTSIDE LANE	185+65	- 199+50 RT	245	190		222
SHOULDERS	185+65	- 199+50 RT	162	125		81
STH 38 NB	129+65	- 184+50 LT	1,972	1,278		1,486
OUTSIDE LANE	184+50	- 199+50 LT	260	200		235
SHOULDERS	184+50	- 199+50 LT	194	150		133
	EMMERTSEN RD		115	150		78
	SIDE ROADS		515	250		194
SUB-TOTAL			5,437	3,617		3,910
STAGE 2B						
STH 38 SB	129+65	- 186+65 RT	1,610	991		1,152
	185+65	- 199+50 RT	245	191		222
STH 38 NB	129+65	- 184+50 LT	1,562	959		1,180
	184+50	- 199+50 LT	260	202		369
						0
MEDIAN OPENINGS			696	615		470
SUB-TOTAL			4,373	2,958		3,392
	B-51-54				50	35
	B-51-74				75	35
UNDISTRIBUTED						200
TOTAL			13,090	9,360	125	10,650

CATEGORY 0010

CONCRETE CURB & GUTTER

		601.0411		SPV.0090.01		601.0557	
		30-INCH TYPE D		HES 30-INCH TYPE D		6-INCH SLOPED 36-INCH TYPE D	
		STATION	-	STATION	LF	LF	LF
STH 38		189+26		189+46	20		
		194+57		195+00	43		
		197+04		197+91	87		
		196+66		197+91	125		
		202+31		202+48	17		
DRIVEWAYS							
		191+26		191+66		40	
		193+13		193+75		62	
		194+71		194+89		18	
		195+71		196+01		30	
		196+06		196+32		26	
		197+14		197+38		24	
		197+68		197+92		24	
		202+07		202+31		24	
		223+63		223+85		22	
		224+07		224+27		20	
		224+74		224+96		22	
		225+36		225+58		22	
STH 38		142+82		145+84			350
		173+51		173+76			63
		INLET REPLACEMENTS			200		
		TOTAL			492	334	413

MISC CONCRETE ITEMS

				602.0410	614.0160
				CONCRETE SIDEWALK 5-INCH	CONCRETE DRIVEWAY 6-INCH
ROADWAY	STATION	-	STATION	SF	SY
STH 38	197+06	-	197+75	330	--
	173+66	-	173+66	137	--
	172+99	-	172+99	130	--
STH 38					--
	195+75		195+95		6.9
	197+68		197+90		16.1
TOTAL				597	23

DRIVEWAYS

		465.0120	305.0110**	416.0160
		ASPHALTIC SURFACE DRIVEWAYS AND FIELD ENTRANCES	BASE AGGREGATE DENSE 3/4-INCH	CONCRETE DRIVEWAY 6-INCH
LOCATION	OFFSET	TON	TON	SY
191+46	LT	6		
193+23	LT	2		
193+57	LT	4		
196+19	LT	1		
197+27	RT	2		
197+52	LT	12		
202+20	RT	3		
223+73	LT	2		
224+16	LT	2		
224+84	LT	2		
225+45	LT	4		
195+85	RT			7
197+80	RT			16
194+78	RT		2	
SUBTOTAL		39	2	23

NOTE:
**ADDITIONAL QUANTITIES SHOWN ELSEWHERE IN PLAN

CATEGORY 0010

EROSION CONTROL						
			628.1504 SILT FENCE	628.1520 SILT FENCE MAINT.	628.7504 TEMPORARY DITCH CHECKS	628.7570 ROCK BAGS
DESCRIPTION	STATION -	STATION	LF	LF	LF	EA
STH 38	125+36	186+00	350	100	150	20
	186+00	228+24	0		0	20
UNDISTRIBUTED			0	0	50	20
TOTAL			350	100	200	60

MOBILIZATIONS EROSION CONTROL		
	628.1905 MOBILIZATIONS EROSION CONTROL EA	628.1910 EMERGENCY EROSION CONTROL EA
STH 38	2	1
TOTAL	2	1

LANDSCAPING									
			625.0500 SALVAGED TOPSOIL	627.0200 MULCHING	628.2006 MAT URBAN CLASS 1 TYPE A	628.6510 SOIL STABILIZER TYPE B	629.0210 FERTILIZER TYPE B	630.0130 SEEDING MIXTURE NO. 30	630.0200 SEEDING TEMPORARY
DESCRIPTION	STATION -	STATION	SY	SY	SY	ACRE	CWT	LB	LB
STH 38	143+82	145+87	410	410	410		0.30	15	10
	UNDISTRIBUTED		50	50	50	0.3	0.10	10	10
	TOTAL		460	460	460	0.3	0.40	25	20

INLET PROTECTION						
			628.7005 INLET PROTECTION TYPE A	628.7010 INLET PROTECTION TYPE B	628.7015 INLET PROTECTION TYPE C	628.7020 INLET PROTECTION TYPE D
DESCRIPTION	STATION -	STATION	EA	EA	EA	EA
STH 38	125+36	186+00	4		16	0
	186+00	228+24	8		22	8
		B-51-54		4		
UNDISTRIBUTED			3		2	2
TOTAL			15	4	40	10

SUBGRADE DRAIN ITEMS			
	310.0110** BASE AGGREGATE OPEN GRADED	612.0106 PIPE UNDERDRAIN 6 INCH	645.0111 GEOTEXTILE FABRIC TYPE DF SCHEDULE A
LOCATIONS	TON	LF	SY
143+82 - 145+87	10	350	650
UNDISTRIBUTED	5	--	
TOTAL	15	350	650

NOTE:
**ADDITIONAL QUANTITIES SHOWN ELSEWHERE IN PLAN

CATEGORY 0010

LOCATION		PAVEMENT MARKING								
		GROOVED WET REFLECTIVE CONTRAST EPOXY			EPOXY 4-INCH			EPOXY 8-INCH	EPOXY 18-INCH	
		4-INCH	4-INCH	8-INCH	WHITE	YELLOW	DOUBLE	WHITE	STOP LINE	YIELD LINE
		WHITE SKIPS	YELLOW SKIPS	WHITE			YELLOW	SKIPS		
		646.1545	646.1545	646.3545	646.1020	646.1020	646.1020	646.3020	646.6120	646.6220
		LF	LF	LF	LF	LF	LF	LF	LF	EA
STH 38										
SOUTH BOUND										
	STA 129+50 - STA 145+00	388		660	1,450	1,450		75	55	
	STA 146+50 - STA 173+00	665		155	2,550	2,175		60	75	
	STA 173+75 - STA 199+50	650		1565	2,150	2,255		135	40	11
	STA 200+50 - STA 227+50	685	50	165	2,505	2,210				
NORTH BOUND										
	STA 129+50 - STA 145+00	388		176	1,450	1,450				
	STA 146+50 - STA 173+00	665		655	2,600	2,175		75	56	
	STA 173+75 - STA 199+50	650		450	2,500	2,255		70	75	
	STA 200+50 - STA 227+50	685	50	667	2,290	2,295		100	40	9
EMMERTSEN RD					300		450	21	70	
JOHNSON PARK DR									50	
NEWMAN RD	STA 43+00 - STA 44+50				25		150	14	22	7
	STA 45+50 - STA 47+00				200		200		12	11
SHAMROCK DR									25	
STH 31	STA 650+00 - STA 652+40	95		485	350	380		56	40	15
	STA 653+15 - STA 655+50	100		585	350	400		18	40	14
CROSSRIDGE DR									12	
MARKRIDGE DR									24	
MILLER LN									24	
B-51-54					700		350			
B-51-74					800		400			
SUBTOTALS		4,971	100	6,086	20,220	17,045	1,550	624	660	67
TOTAL		4,971	100	6,086	38,815			624	660	67

CATEGORY 0010

LOCATION		PAVEMENT MARKING				
		CURB EPOXY	ISLAND NOSE EPOXY	EPOXY 12-INCH DIAGONAL	EPOXY WORD	EPOXY ARROW
		YELLOW	YELLOW	WHITE		
		646.8120	646.8220	646.7120	646.5120	646.5020
		LF	EACH	LF	EACH	EACH
STH 38						
SOUTH BOUND						
	STA 129+50 - STA 145+00	18	1	115	1	4
	STA 146+50 - STA 173+00	31				2
	STA 173+75 - STA 199+50	195	3	210	2	4
	STA 200+50 - STA 227+50	185	3			2
NORTH BOUND						
	STA 129+50 - STA 145+00					3
	STA 146+50 - STA 173+00	18	1	115		5
	STA 173+75 - STA 199+50	89	1			6
	STA 200+50 - STA 227+50	220	4	75		4
SUBTOTAL		756	13	515	3	30
SIDE ROAD						
EMMERTSEN RD						4
JOHNSON PARK DR						6
NEWMAN RD	STA 43+00 - STA 44+50				1	1
	STA 45+50 - STA 47+00					
SHAMROCK DR						
STH 31	STA 650+00 - STA 652+40	40	1	55		2
	STA 653+15 - STA 655+50	45	1	75	1	2
SUBTOTAL		85	2	130	2	15
TOTAL		841	15	645	5	45

CATEGORY 0010

TRAFFIC CONTROL										
	643.0300 TRAFFIC CONTROL DRUMS	643.0420 TRAFFIC CONTROL BARRICADES TYPE III	643.0705 TRAFFIC CONTROL WARNING LIGHTS TYPE A	643.0715 TRAFFIC CONTROL WARNING LIGHTS TYPE C	643.0800 TRAFFIC CONTROL ARROW BOARDS	643.0900 TRAFFIC CONTROL SIGNS	643.0920 TRAFFIC CONTROL COVERING SIGNS TYPE II EACH	643.1050 TRAFFIC CONTROL SIGNS PCMS	643.1070 TRAFFIC CONTROL CONES 42-INCH	649.0105 TEMPORARY MARKING LINE PAINT 4-INCH
	DAY	DAY	DAY	DAY	DAY	DAY		DAY	DAY	LF
STAGE 1	17,615	2,795	5,590	975	90	4,290	0	0	4,550	6,360
STAGE 2A	4,875	780	1,300	1,950	0	9,750	11	190	0	0
STAGE 2B	19,260	1,560	3,120	900	100	3,000	0	0	4,560	0
TOTAL	41,750	5,135	10,010	3,825	190	17,040	11	190	9,110	6,360

CATEGORY 0010

WISDOT FACILITIES						
	ADJUSTING INLET COVERS 611.811 S	ADJUSTING MANHOLE COVERS 611.8110	SALVAGED MANHOLE COVERS 611.9705	DRILLED TIE BARS** 416.0610	SAWING CONCRETE** 690.0250	COVER PLATES TEMPORARY 611.8120.S
LOCATION	EACH	EACH	EACH	EACH	LF	EACH
STA 173+68, 45.7' RT	1			4		
STA 191+02, 47.4' LT	1			4		
STA 193+61, 53.4' RT	1			4		
STA 194+01, 48.7' LT	1			4		
STA 198+90, 50.5' LT	1			4		
STA 199+55, 38.9' RT	1			4		
STA 199+63, 110.8' RT	1			4		
STA 199+98, 90.3' RT	1			4		
STA 200+50, 77.6' RT	1			4		
STA 200+77, 96.3' RT	1			4		
STA 190+78, 12.5' RT	1			4		
STA 191+19, 12.9' LT	1			4		
STA 194+06, 2.9' LT	1			4		
STA 194+07, 12.3' RT	1			4		
STA 199+47, 5.2' LT	1			4		
STA 201+06, 38.8' LT	1			4		
STA 202+05, 4.7' RT	1			4		
STA 202+06, 12.7' RT	1			4		
STA 202+39, 47.4' RT	1			4		
STA 204+58, 46.3' LT	1			4		
STA 204+68, 14.0' LT	1			4		
STA 204+69, 13.0' RT	1			4		
STA 208+52, 12.0' LT	1			4		
STA 208+52, 12.7' RT	1			4		
STA 211+02, 12.9' LT	1			4		
STA 211+02, 12.8' RT	1			4		
STA 212+41, 37.7' RT		1	1	8	20	1
STA 213+02, 36.8' LT		1	1	8	20	1
STA 217+95, 24.4' RT		1	1	8	20	1
STA 213+52, 12.7' LT	1			4		
STA 213+53, 13.0' RT	1			4		
STA 215+45, 13.0' LT	1			4		
STA 215+45, 2.4' RT	1			4		
STA 218+78, 10.6' LT	1			4		
STA 219+71, 0.5' RT		1	1	8	20	1
STA 223+29, 12.1' LT	1			4		
STA 223+49, 7.8' RT	1			4		
STA 225+71, 47.7' LT	1			4		
STA 227+02, 5.5' RT	1			4		
STA 227+03, 13.6' LT	1			4		
B-51-54	2					
TOTAL	38	4	4	176	80	4

NOTE:
**ADDITIONAL QUANTITIES SHOWN ELSEWHERE IN PLAN

CATEGORY 0010

FILE NAME : _____

PLOT DATE : _____

PLOT BY : _____

PLOT NAME : _____

PLOT SCALE : 1:1

PRE_174

3

STH 38 & NEWMAN ROAD
RACINE COUNTY
CATEGORY 0020
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3

STATE FURNISHED MATERIALS SUMMARY	
EACH	DESCRIPTION
1	TRAFFIC SIGNAL CABINET
3	POLE TYPE 10
1	POLE TYPE 13
3	30-FT MONOTUBE ARM
1	50-FT MONOTUBE ARM
6	LUMINAIRE ARMS, STEEL 15-FT
4	EVP DETECTOR HEADS
4	EVP CONFIRMATION LIGHT

STATE FURNISHED FOR INFORMATION ONLY							
SIGNAL	POLE	POLE	MONO	MONO	LUMINAIRE ARMS	EVP DETECTOR	EVP CONFIRMATION
BASE NO.	TYPE 10	TYPE 13	30' ARM	50' ARM	STEEL 15-FT	HEADS	LIGHT
	EACH	EACH	EACH	EACH	EACH	EACH	EACH
SB1	1		1		1	1	1
SB3	1		1		2	1	1
SB5		1		1	1	1	1
SB7	1		1		2	1	1
TOTAL	3	1	3	1	6	4	4

REMOVING CONCRETE BASES

204.0195 REMOVING CONCRETE BASES	
SIGNAL	
BASE NO.	EACH
CB1	1
SB1	1
SB2	1
SB3	1
SB4	1
SB5	1
SB6	1
SB7	1
SB8	1
SB9	1
SB10	1
SB11	1
TOTAL	12*

* QUANTITY SHOWN ELSEWHERE ON PLAN

REMOVE TRAFFIC SIGNALS

204.9105.S.01 REMOVE TRAFFIC SIGNALS	
LOCATION	L.S.
STH 38 & NEWMAN ROAD	1
TOTAL	1

REMOVE LOOP DETECTOR WIRE AND LEAD-IN CABLE

204.9105.S.02 REMOVING LOOP DETECTOR WIRE & LEAD-IN CABLE	
LOCATION	L.S.
STH 38 & NEWMAN ROAD	1
TOTAL	1

CONDUIT

		652.0225	652.0235	652.0605	652.0615
		CONDUIT RIGID	CONDUIT RIGID		
		NONMETALLIC	NONMETALLIC	CONDUIT	CONDUIT
		SCHEDULE 40	SCHEDULE 40	SPECIAL	SPECIAL
		2-INCH	3-INCH	2-INCH	3-INCH
FROM	TO	L.F.	L.F.	L.F.	L.F.
CB1	PB1		45		
PB1	PB2			28	
PB1	PB3		76		
PB2	SB8	7			
PB3	PB4	201			
PB3	PB5				114
PB5	SB1		32		
PB5	PB6		194		
PB6	SB2	37			
PB6	PB7	184			
PB6	PB9				124
PB7	PB8	151			
PB9	SB3		14		
PB9	PB10	23			
PB9	PB11				102
PB11	PB12		64		
PB12	PB13	234			
PB12	PB14			30	
PB12	PB15				146
PB14	SB4	7			
PB15	PB16		136		
PB15	SB5		25		
PB16	SB6	26			
PB16	PB17	193			
PB16	PB19				136
PB17	PB18	150			
PB19	SB7		15		
PB19	PB20				96
PB20	CB1		42		
TOTAL		1213*	643*	58	718*

* QUANTITY SHOWN ELSEWHERE ON PLAN

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TRAFFIC DETECTOR LOOPS								
LOOP NO.	HOME RUN PB	LOCATION*	SIZE (FT)x(FT)	NO. OF TURNS	SDD INSTALLATION REFERENCE	652.0800	655.0700	655.0800
						CONDUIT LOOP DETECTOR L.F.	LOOP DETECTOR LEAD IN CABLE L.F.	LOOP DETECTOR WIRE L.F.
11	PB10	172+61.6, 9.4' RT	6'X20'	3	9F15-4A - LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPlice) BOX OFF ROADWAY (OPTION 1)	66	306	198
12	PB10	172+89.5, 9.6' RT	6'X20'	3	9F15-4A - LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPlice) BOX OFF ROADWAY (OPTION 1)	66	306	198
21	PB18	177+52.9, 35.0' LT	6'X15'	5	9F15-4A - LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPlice) BOX OFF ROADWAY (OPTION 1)	74	487	370
22	PB18	177+52.8, 23.0' LT	6'X15'	5	9F15-4B - LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPlice) BOX OFF ROADWAY (OPTION 2)	100	487	500
23	PB17	176+02.6, 34.8' LT	6'X15'	4	9F15-4A - LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPlice) BOX OFF ROADWAY (OPTION 1)	80	337	320
24	PB17	176+02.5, 22.9' LT	6'X15'	4	9F15-4B - LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPlice) BOX OFF ROADWAY (OPTION 2)	104	337	416
31	PB3	173+43.9, 78.7' RT	6'X20'	3	9F15-4B - LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPlice) BOX OFF ROADWAY (OPTION 2)	96	67	288
32	PB2	173+38.8, 51.2' RT	6'X20'	3	9F15-4B - LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPlice) BOX OFF ROADWAY (OPTION 2)	96	57	288
41	PB13	172+63.0, 302.2' LT	6'X10'	5	9f15-4A - LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPlice) BOX OFF ROADWAY (OPTION 1)	60	519	300
42	PB14	173+10.9, 79.0' LT	6'X20'	3	9f15-4A - LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPlice) BOX OFF ROADWAY (OPTION 1)	90	315	270
43	PB14	173+16.3, 51.5' LT	6'X20'	3	9f15-4A - LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPlice) BOX OFF ROADWAY (OPTION 1)	78	315	234

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51	PB19	174+01.0, 8.7' LT	6'X20'	3	9F15-4A - LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPlice) BOX OFF ROADWAY (OPTION 1)	80	76	240
52	PB19	173+72.9, 8.6' LT	6'X20'	3	9f15-4A - LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPlice) BOX OFF ROADWAY (OPTION 1)	86	76	258
61	PB8	169+10.3, 35.0' RT	6'X15'	5	9F15-4A - LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPlice) BOX OFF ROADWAY (OPTION 1)	74	556	370
62	PB8	169+10.3, 23.0' RT	6'X15'	5	9F15-4B - LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPlice) BOX OFF ROADWAY (OPTION 2)	98	556	490
63	PB7	170+59.8, 35.0' RT	6'X15'	4	9F15-4A - LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPlice) BOX OFF ROADWAY (OPTION 1)	74	405	296
64	PB7	170+59.8, 23.0' RT	6'X15'	4	9F15-4B - LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPlice) BOX OFF ROADWAY (OPTION 2)	98	405	392
81	PB4	173+90.3, 301.0' RT	6'X6'	4	9F15-4B - LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPlice) BOX OFF ROADWAY (OPTION 2)	56	268	224
82	PB3	173+53.6, 76.9' RT	6'X20'	3	9F15-4B - LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPlice) BOX OFF ROADWAY (OPTION 2)	78	67	234
83	PB2	173+48.6, 49.4' RT	6'X20'	3	9f15-4A - LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPlice) BOX OFF ROADWAY (OPTION 1)	72	57	216
TOTAL						1626*	5999*	6102*

* QUANTITY SHOWN ELSEWHERE ON PLAN
** LOCATION IS TO FRONT CENTER OF DETECTOR LOOP
*** FINAL LOCATION TO BE DETERMINED BY THE ENGINEER IN THE FIELD.

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PULL BOXES			
PULL BOX NO.	LOCATION*	653.0135	653.0140
		PULL BOXES	PULL BOXES
		STEEL	STEEL
		24x36-INCH EACH	24x42-INCH EACH
PB1	173+87.5, 65.6' RT		1
PB2	173+60.8, 60.0' RT	1	
PB3	173+72.4, 99.7' RT		1
PB4	174+08.5, 297.7' RT	1	
PB5	173+17.6, 110.2' RT		1
PB6	172+42.3, 58.2' RT		1
PB7	170+60.1, 54.1' RT	1	
PB8	169+10.5, 53.7' RT	1	
PB9	172+43.5, 6.1' LT		1
PB10	172+65.5, 0.5' RT	1	
PB11	172+43.5, 56.6' LT		1
PB12	172+71.2, 71.1' LT		1
PB13	172+45.5, 298.9' LT	1	
PB14	172+99.7, 61.4' LT	1	
PB15	173+43.6, 84.9' LT		1
PB16	174+07.4, 59.0' LT		1
PB17	176+02.6, 56.7' LT	1	
PB18	177+53.0, 54.2' LT	1	
PB19	174+02.7, 8.6' RT		1
PB20	174+04.7, 56.2' RT		1
TOTAL		9*	11*

* QUANTITY SHOWN ELSEWHERE ON PLAN
*** FINAL LOCATION TO BE DETERMINED BY THE ENGINEER IN THE FIELD.

REMOVE PULL BOXES	
PULL BOX NO.	653.0905
	REMOVING PULL BOXES EACH
PB1	1
PB2	1
PB3	1
PB4	1
PB5	1
PB6	1
PB7	1
PB8	1
PB9	1
PB10	1
PB11	1
PB12	1
PB13	1
PB14	1
PB15	1
PB16	1
PB17	1
PB18	1
PB19	1
TOTAL 19*	

* QUANTITY SHOWN ELSEWHERE ON PLAN

TRAFFIC SIGNAL CABLE AND WIRE				
		655.0240	655.0260	655.0320
		CABLE	CABLE	CABLE TYPE
		TRAFFIC SIGNAL	TRAFFIC SIGNAL	UF 2-10 AWG
		7-14 AWG	12-14 AWG	GROUNDED
FROM	TO	L.F.	L.F.	L.F.
CB1	SB1	201		
CB1	SB2		319	
CB1	SB3		374	
CB1	SB4		415	
CB1	SB5		298	
CB1	SB6		215	
CB1	SB7		120	
CB1	SB8		93	
CB1	SB1			201
SB1	SB3			261
CB1	SB7			120
SB7	SB5			232
TOTAL		201*	1834*	814*

* QUANTITY SHOWN ELSEWHERE ON PLAN

CONCRETE BASES					
		654.0101	654.0110	654.0113	654.0217
		CONCRETE	CONCRETE	CONCRETE	CONCRETE CONTROL
		BASES	BASES	BASES	CABINET BASES
SIGNAL		TYPE 1	TYPE 10	TYPE 13	TYPE 9 SPECIAL
BASE NO.	LOCATION*	EACH	EACH	EACH	EACH
CB1	174+02.1, 70.1' RT				1
SB1	173+08.1, 80.2' RT		1		
SB2	172+78.7, 61.2' RT	1			
SB3	172+58.1, 6.0' LT		1		
SB4	173+01.1, 54.7' LT	1			
SB5	173+62.2, 68.4' LT			1	
SB6	173+81.4, 58.0' LT	1			
SB7	173+87.6, 6.2' RT		1		
SB8	173+60.6, 52.5' RT	1			
TOTAL		4*	3*	1*	1*

* QUANTITY SHOWN ELSEWHERE ON PLAN
*** FINAL LOCATION TO BE DETERMINED BY THE ENGINEER IN THE FIELD.

TRAFFIC SIGNAL CABLE AND WIRE		
FROM	TO	655.0515
		ELECTRICAL WIRE
		TRAFFIC SIGNALS
		10 AWG L.F.
CB1	SB1	201
SB1	SB2	206
SB2	SB3	153
SB3	SB4	206
SB4	SB5	343
SB5	SB6	159
SB6	SB7	149
SB7	SB8	213
SB8	CB1	93
PB1	CB1	38
PB3	CB1	92
PB5	SB1	52
PB6	SB2	57
PB9	SB3	34
PB11	SB3	101
PB12	SB4	73
PB15	SB5	45
PB16	SB6	46
PB19	SB7	35
PB20	CB1	37
TOTAL		2333*

* QUANTITY SHOWN ELSEWHERE ON PLAN

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TRAFFIC SIGNAL CABLE AND WIRE			
		655.0240	655.0260
		CABLE	CABLE
		TRAFFIC SIGNAL	TRAFFIC SIGNAL
		7-14 AWG	12-14 AWG
FROM	TO	L.F.	L.F.
SB1	HEAD 17	48	
SB2	HEAD 1		22
SB2	HEAD 9		22
SB3	HEAD 7		38
SB3	HEAD 8		49
SB3	HEAD 10		26
SB4	HEAD 14		22
SB4	HEAD 16		19
SB5	HEAD 12		60
SB5	HEAD 13		29
SB5	HEAD 15		71
SB6	HEAD 4		22
SB6	HEAD 6		19
SB7	HEAD 5		26
SB7	HEAD 2		38
SB7	HEAD 3		49
SB8	HEAD 18		19
SB8	HEAD 11		19
TOTAL		48*	550*

* QUANTITY SHOWN ELSEWHERE ON PLAN

FACES			
		658.0173	658.0174
		TRAFFIC	TRAFFIC
		SIGNAL FACE	SIGNAL FACE
SIGNAL	SIGNAL	3S 12-INCH	4S 12-INCH
HEAD NO.	BASE NO.	EACH	EACH
1	SB2	1	
2	SB7	1	
3	SB7	1	
4	SB6		1
5	SB7		1
6	SB6	1	
7	SB3	1	
8	SB3	1	
9	SB2		1
10	SB3		1
11	SB8	1	
12	SB5	1	
13	SB5	1	
14	SB4		1
15	SB5		1
16	SB4	1	
17	SB1	1	
18	SB8	1	
TOTAL		12*	6*

* QUANTITY SHOWN ELSEWHERE ON PLAN

IC SIGNAL CABLE AND WIRE	
655.0610	
ELECTRICAL WIRE	
LIGHTING	
12 AWG	
TO	L.F.
LUMIN	144
LUMIN (2)	288
LUMIN	144
LUMIN (2)	288
TOTAL	864*

SHOWN ELSEWHERE ON PLAN

POLES (STATE FURNISHED)								
	SPV.0060.05	SPV.0060.08	SPV.0060.10	SPV.0060.12	657.0715	SPV.0060.13	659.1115	
	INSTALL	INSTALL	INSTALL	INSTALL				
	POLES	POLES	MONOTUBE	MONOTUBE	LUMINAIRE ARMS	INSTALL	LUMINAIRES	
	TYPE 10	TYPE 13	ARMS	ARMS	TRUSS TYPE	LUMINAIRE ARMS	UTILITY	
SIGNAL			30-FT	50-FT	4 1/2-INCH CLAMP 15-FT	STEEL 15-FT	LED A	
BASE NO.	EACH	EACH	EACH	EACH	EACH	EACH	EACH	
SB1	1		1		1	1	1	
SB3	1		1		2	2	2	
SB5		1		1	1	1	1	
SB7	1		1		2	2	2	
TOTAL	3*	1*	3	1	6*	6*	6*	

* QUANTITY SHOWN ELSEWHERE ON PLAN

TRAFFIC SIGNAL EVP DETECTOR CABLE			
		655.0210	655.0900
		CABLE	TRAFFIC SIGNAL
		TRAFFIC SIGNAL	EVP DETECTOR
		3-14 AWG	CABLE
FROM	TO	L.F.	L.F.
CB1	SB3 (HEAD A)	434	434
CB1	SB7 (HEAD B)	180	180
CB1	SB1 (HEAD C)	261	261
CB1	SB5 (HEAD D)	378	378
TOTAL		1253*	1253*

* QUANTITY SHOWN ELSEWHERE ON PLAN

POLES (CONTRACTOR FURNISHED)			
	657.0100	657.0420	657.0425
		TRAFFIC SIGNAL	TRAFFIC SIGNAL
		STANDARDS	STANDARDS
	PEDESTAL	ALUMINUM	ALUMINUM
SIGNAL	BASES	13-FT	15-FT
BASE NO.	EACH	EACH	EACH
SB2	1		1
SB4	1		1
SB6	1		1
SB8	1	1	
TOTAL	4*	1	3*

* QUANTITY SHOWN ELSEWHERE ON PLAN

LED MODULES SUMMARY (FOR INFORMATION ONLY)							
		LED MODULES	LED MODULES	LED MODULES	LED MODULES	LED MODULES	LED MODULES
		12-INCH	12-INCH	12-INCH	12-INCH	12-INCH	12-INCH
SIGNAL	SIGNAL	RED BALL	YELLOW BALL	GREEN BALL	RED ARROW	YELLOW ARROW	GREEN ARROW
HEAD NO.	BASE NO.	EACH	EACH	EACH	EACH	EACH	EACH
1	SB2	1	1	1			
2	SB7	1	1	1			
3	SB7	1	1	1			
4	SB6				1	2	1
5	SB7				1	2	1
6	SB6	1	1	1			
7	SB3	1	1	1			
8	SB3	1	1	1			
9	SB2				1	2	1
10	SB3				1	2	1
11	SB8	1	1	1			
12	SB5	1	1	1			
13	SB5	1	1	1			
14	SB4				1	2	1
15	SB5				1	2	1
16	SB4	1	1	1			
17	SB1	1	1	1			
18	SB8	1	1	1			
TOTAL		12	12	12	6	12	6

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ELECTRICAL SERVICE METER BREAKER PEDESTAL	
	656.0200.02
	ELECTRICAL SERVICE METER BREAKER PEDESTAL
LOCATION*	L.S.
STH 38 & NEWMAN RD	1
TOTAL	1

* FINAL LOCATION TO BE DETERMINED BY THE ENGINEER IN THE FIELD

TEMPORARY TRAFFIC SIGNALS FOR INTERSECTIONS	
	661.0200.01
	TEMPORARY TRAFFIC SIGNALS FOR INTERSECTIONS
LOCATION	L.S.
STH 38 & NEWMAN ROAD	1
TOTAL	1

SIGNAL MOUNTING HARDWARE	
	658.5069.01
	SIGNAL MOUNTING HARDWARE
LOCATION	L.S.
STH 38 & NEWMAN ROAD	1
TOTAL	1

TRANSPORT AND INSTALL STATE FURNISHED TRAFFIC SIGNAL CABINET	
	SPV.0105.05
	TRANSPORT AND INSTALL STATE FURNISHED TRAFFIC SIGNAL CABINET
LOCATION	L.S.
STH 38 & NEWMAN ROAD	1
TOTAL	1

TEMP INFRARED EVP SYSTEM & CONFIRM LIGHTS	
	SPV.0105.11
	TEMP INFRARED EVP SYSTEM & CONFIRM LIGHTS
LOCATION	L.S.
STH 38 & NEWMAN RD	1
TOTAL	1

TRANSPORT TRAFFIC SIGNAL AND INTERSECTION LIGHTING MATERIALS	
	SPV.0105.06
	TRANSPORT TRAFFIC SIGNAL AND INTERSECTION LIGHTING MATERIALS
LOCATION	L.S.
STH 38 & NEWMAN ROAD	1
TOTAL	1

EVP DETECTOR HEAD INSTALLATION	
	SPV.0105.07
	TRANSPORT AND INSTALL STATE FURNISHED EVP DETECTOR HEADS AND EVP CONFIRMATION LIGHT
LOCATION	L.S.
STH 38 & NEWMAN ROAD	1
TOTAL	1

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STH 38 & EMMERTSEN RD/JOHNSON PARK DR
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STATE FURNISHED MATERIALS SUMMARY	
EACH	DESCRIPTION
1	TRAFFIC SIGNAL CABINET
2	POLE TYPE 10
2	POLE TYPE 9 SPECIAL
2	POLE TYPE 10 SPECIAL
2	15-FT MONOTUBE ARM
4	45-FT MONOTUBE ARM
6	LUMINAIRE ARMS, STEEL 15-FT
4	EVP DETECTOR HEADS
4	EVP CONFIRMATION LIGHT

STATE FURNISHED FOR INFORMATION ONLY									
SIGNAL BASE NO.	POLE TYPE 10 EACH	POLE TYPE 9 SPECIAL EACH	POLE TYPE 10 SPECIAL EACH	MONO 15' ARM EACH	MONO 45' ARM EACH	LUMINAIRE ARMS STEEL 15-FT EACH	EVP DETECTOR HEADS EACH	EVP CONFIRMATION LIGHT EACH	
SB2			1		1	1	1	1	1
SB4	1			1		2			
SB5		1			1		1	1	
SB7			1		1	1	1	1	
SB9	1			1		2			
SB10		1			1		1	1	
TOTAL	2	2	2	2	4	6	4	4	4

REMOVING CONCRETE BASES

204.0195 REMOVING CONCRETE BASES	
SIGNAL BASE NO.	EACH
CB1	1
SB1	1
SB2	1
SB3	1
SB4	1
SB5	1
SB6	1
SB7	1
SB8	1
SB9	1
SB10	1
SB11	1
TOTAL	12*

* QUANTITY SHOWN ELSEWHERE ON PLAN

REMOVE TRAFFIC SIGNALS

204.9105.S.03 REMOVE TRAFFIC SIGNALS	
LOCATION	L.S.
STH 38 & EMMERTSEN RD/JOHNSON PARK DR	1
TOTAL	1

REMOVE LOOP DETECTOR WIRE AND LEAD-IN CABLE

204.9105.S.04 REMOVING LOOP DETECTOR WIRE & LEAD-IN CABLE	
LOCATION	L.S.
STH 38 & EMMERTSEN RD/JOHNSON PARK DR	1
TOTAL	1

CONDUIT

		652.0225 CONDUIT RIGID NONMETALLIC SCHEDULE 40 2-INCH L.F.	652.0235 CONDUIT RIGID NONMETALLIC SCHEDULE 40 3-INCH L.F.	652.0615 CONDUIT SPECIAL 3-INCH L.F.
FROM	TO			
CB1	PB1		60	
PB1	SB1	3		
PB1	PB2		48	
PB2	PB3	153		
PB2	PB4	12		
PB2	PB5			96
PB5	PB6	33		
PB5	PB7			72
PB7	SB2		33	
PB7	PB8		220	
PB8	SB3	27		
PB8	PB9	193		
PB8	PB11			142
PB9	PB10	150		
PB11	SB4		8	
PB11	PB12			102
PB12	SB5		5	
PB12	PB13		124	
PB13	PB14	32		
PB13	PB15	229		
PB13	PB16			126
PB14	SB6	9		
PB16	PB17		154	
PB17	SB7		20	
PB17	PB18		104	
PB18	SB8	13		
PB18	PB19	183		
PB18	PB21			136
PB19	PB20	150		
PB21	SB9		7	
PB21	PB22			108
PB22	SB10		17	
PB22	CB1		51	
TOTAL		1187*	800*	782*

* QUANTITY SHOWN ELSEWHERE ON PLAN

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STH 38 & EMMERTSEN RD/JOHNSON PARK DR
RACINE COUNTY
CATEGORY 0020
S51-0884

3

TRAFFIC DETECTOR LOOPS								
LOOP NO.	HOME RUN PB	LOCATION*	SIZE (FT)x(FT)	NO. OF TURNS	SDD INSTALLATION REFERENCE	652.0800	655.0700	655.0800
						CONDUIT LOOP DETECTOR L.F.	LOOP DETECTOR LEAD IN CABLE L.F.	LOOP DETECTOR WIRE L.F.
11	PB21	144+79.3, 3.0' RT	6'X20'	3	9F15-4A - LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPlice) BOX OFF ROADWAY (OPTION 1)	78	85	234
12	PB21	145+07.3, 3.0' RT	6'X20'	3	9F15-4A - LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPlice) BOX OFF ROADWAY (OPTION 1)	72	85	216
21	PB10	150+08.9, 34.9' LT	6'X15'	5	9F15-4A - LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPlice) BOX OFF ROADWAY (OPTION 1)	76	544	380
22	PB10	150+08.9, 23.0' LT	6'X15'	5	9F15-4B - LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPlice) BOX OFF ROADWAY (OPTION 2)	100	544	500
23	PB9	148+59.0, 34.9' LT	6'X15'	4	9F15-4A - LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPlice) BOX OFF ROADWAY (OPTION 1)	58	394	232
24	PB9	148+59.0, 23.0' LT	6'X15'	4	9F15-4B - LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPlice) BOX OFF ROADWAY (OPTION 2)	69	394	276
31	PB13	146+05.0, 83.2' RT	6'X20	3	9F15-4B - LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPlice) BOX OFF ROADWAY (OPTION 2)	124	353	372
32	PB14	145+97.0, 56.3' RT	6'X20'	3	9F15-4B - LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPlice) BOX OFF ROADWAY (OPTION 2)	126	353	378
41	PB3	144+78.5, 260.8' LT	6'X20'	3	9F15-4A - LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPlice) BOX OFF ROADWAY (OPTION 1)	80	211	240
42	PB4	145+16.6, 55.4' LT	6'X20'	3	9F15-4A - LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPlice) BOX OFF ROADWAY (OPTION 1)	78	34	234
43	PB4	145+24.3, 89.7' LT	6'X20'	3	9F15-4B - LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPlice) BOX OFF ROADWAY (OPTION 2)	88	34	264
44	PB4	145+32.1, 62.9' LT	6'X20'	3	9F15-4B - LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPlice) BOX OFF ROADWAY (OPTION 2)	92	34	276
45	PB6	145+34.8, 92.9' LT	6'X20'	3	9F15-4B - LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPlice) BOX OFF ROADWAY (OPTION 2)	90	87	270
46	PB4	145+42.7, 66.1' LT	6'X20'	3	9F15-4B - LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPlice) BOX OFF ROADWAY (OPTION 2)	112	34	336

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51	PB11	146+70.9, 2.9' LT	6'X20'	3	9F15-4A - LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPlice) BOX OFF ROADWAY (OPTION 1)	74	272	222
52	PB11	146+43.0, 2.8' LT	6'X20'	3	9F15-4A - LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPlice) BOX OFF ROADWAY (OPTION 1)	72	272	216
61	PB20	141+60.8, 35.0' RT	6'X15'	4	9F15-4A - LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPlice) BOX OFF ROADWAY (OPTION 1)	76	486	304
62	PB20	141+60.8, 23.0' RT	6'X15'	4	9F15-4B - LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPlice) BOX OFF ROADWAY (OPTION 2)	100	486	400
63	PB19	143+10.7, 34.6' RT	6'X15'	4	9F15-4A - LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPlice) BOX OFF ROADWAY (OPTION 1)	82	336	328
64	PB19	143+10.6, 22.6' RT	6'X15'	4	9F15-4B - LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPlice) BOX OFF ROADWAY (OPTION 2)	106	336	424
71	PB6	145+44.6, 98.6' LT	6'X20'	3	9F15-4A - LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPlice) BOX OFF ROADWAY (OPTION 1)	78	87	234
72	PB6	145+52.4, 71.7' LT	6'X20'	3	9F15-4A - LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPlice) BOX OFF ROADWAY (OPTION 1)	66	87	198
81	PB15	146+82.8, 340.9' RT	6'X20'	4	9F15-4A - LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPlice) BOX OFF ROADWAY (OPTION 1)	70	607	280
82	PB13	146+15.4, 80.0' RT	6'X20'	3	9F15-4B - LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPlice) BOX OFF ROADWAY (OPTION 2)	98	353	294
83	PB14	146+07.6, 53.2' RT	6'X20'	3	9F15-4B - LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPlice) BOX OFF ROADWAY (OPTION 2)	110	353	330
84	PB14	146+31.6, 53.3' RT	6'X20'	3	9F15-4A - LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPlice) BOX OFF ROADWAY (OPTION 1)	88	353	264
TOTAL						2263*	7214*	7702*

* QUANTITY SHOWN ELSEWHERE ON PLAN
** LOCATION IS TO FRONT CENTER OF DETECTOR LOOP
*** FINAL LOCATION TO BE DETERMINED BY THE ENGINEER IN THE FIELD.

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PULL BOXES			
		653.0135	653.0140
		PULL BOXES	PULL BOXES
		STEEL	STEEL
PULL BOX NO.	LOCATION*	24x36-INCH EACH	24x42-INCH EACH
PB1	145+04.0, 83.6' LT		1
PB2	145+01.4, 107.6' LT		1
PB3	144+55.9, 254.0' LT	1	
PB4	145+05.4, 96.0' LT	1	
PB5	145+46.9, 121.4' LT		1
PB6	145+56.5, 89.7' LT	1	
PB7	145+81.4, 131.8' LT		1
PB8	146+65.6, 60.5' LT		1
PB9	148+58.9, 53.7' LT	1	
PB10	150+09.0, 54.9' LT	1	
PB11	146+66.0, 10.1' RT		1
PB12	146+68.6, 60.8' RT		1
PB13	146+43.9, 113.9' RT		1
PB14	146+39.7, 83.4' RT	1	
PB15	147+01.2, 335.6' RT	1	
PB16	145+83.2, 132.4' RT		1
PB17	145+45.7, 66.7' RT		1
PB18	144+93.8, 58.3' RT		1
PB19	143+10.9, 57.1' RT	1	
PB20	141+60.7, 54.9' RT	1	
PB21	144+88.4, 9.7' LT		1
PB22	144+86.3, 63.8' LT		1
TOTAL		9*	13*

* QUANTITY SHOWN ELSEWHERE ON PLAN
*** FINAL LOCATION TO BE DETERMINED BY THE ENGINEER IN THE FIELD.

REMOVE PULL BOXES	
653.0905	
REMOVING	
PULL BOX NO.	PULL BOXES EACH
PB1	1
PB2	1
PB3	1
PB4	1
PB5	1
PB6	1
PB7	1
PB8	1
PB9	1
PB10	1
PB11	1
PB12	1
PB13	1
PB14	1
PB15	1
PB16	1
PB17	1
PB18	1
TOTAL 18*	

* QUANTITY SHOWN ELSEWHERE ON PLAN

TRAFFIC SIGNAL CABLE AND WIRE				
		655.0240	655.0260	655.0320
		CABLE	CABLE	CABLE TYPE
		TRAFFIC SIGNAL	TRAFFIC SIGNAL	UF 2-10 AWG
		7-14 AWG	12-14 AWG	GROUNDED
FROM	TO	L.F.	L.F.	L.F.
CB1	SB1		50	
CB1	SB2		199	
CB1	SB3		289	
CB1	SB4		357	
CB1	SB5	402		
CB1	SB6		450	
CB1	SB7		286	
CB1	SB8		285	
CB1	SB9		124	
CB1	SB10	61		
CB1	SB2			199
SB2	SB4			220
CB1	SB9			121
SB9	SB7			203
TOTAL		463*	2040*	743*

* QUANTITY SHOWN ELSEWHERE ON PLAN

CONCRETE BASES				
		654.0101	654.0110	SPV.0060.14
		CONCRETE	CONCRETE	CONCRETE
		BASES	BASES	BASES
		TYPE 1	TYPE 10	TYPE 9&10 SPECIAL
SIGNAL BASE NO.	LOCATION*	EACH	EACH	TYPE 9 SPECIAL EACH
CB1	144+83.9, 80.3' LT			1
SB1	145+03.3, 80.3' LT	1		
SB2	145+93.7, 101.1' LT			1
SB3	146+39.0, 61.1' LT	1		
SB4	146+58.5, 10.0' RT		1	
SB5	146+64.9, 64.9' RT			1
SB6	146+37.9, 90.5' RT	1		
SB7	145+57.1, 83.1' RT			1
SB8	145+30.6, 62.0' RT	1		
SB9	144+95.4, 9.7' LT		1	
SB10	144+69.5, 63.2' LT			1
TOTAL		4*	2*	4*

* QUANTITY SHOWN ELSEWHERE ON PLAN
*** FINAL LOCATION TO BE DETERMINED BY THE ENGINEER IN THE FIELD.

TRAFFIC SIGNAL CABLE AND WIRE		
655.0515		
ELECTRICAL WIRE		
TRAFFIC SIGNALS		
10 AWG		
FROM	TO	L.F.
CB1	SB1	50
SB1	SB2	179
SB2	SB3	152
SB3	SB4	146
SB4	SB5	131
SB5	SB6	84
SB6	SB7	228
SB7	SB8	60
SB8	SB9	199
SB9	SB10	118
SB10	CB1	61
PB1	CB1	43
PB3	CB1	252
PB5	SB2	105
PB6	SB2	154
PB7	SB3	173
PB10	SB4	490
PB11	SB5	92
PB12	SB5	25
PB15	SB7	457
PB17	SB7	40
PB20	SB9	476
PB21	CB1	110
TOTAL		3825*

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TRAFFIC SIGNAL CABLE AND WIRE			
		655.0240	655.0260
		CABLE	CABLE
		TRAFFIC SIGNAL	RAFFIC SIGNAL
		7-14 AWG	12-14 AWG
FROM	TO	L.F.	L.F.
SB1	HEAD 14		22
SB1	HEAD 16		19
SB2	HEAD 12		53
SB2	HEAD 13		40
SB2	HEAD 15		69
SB3	HEAD 4		22
SB3	HEAD 6		19
SB4	HEAD 5		34
SB5	HEAD 2	69	
SB5	HEAD 3	56	
SB6	HEAD 11		19
SB6	HEAD 19		22
SB7	HEAD 17		53
SB7	HEAD 18		31
SB7	HEAD 20		66
SB8	HEAD 1		19
SB8	HEAD 9		22
SB9	HEAD 10		33
SB10	HEAD 7	66	
SB10	HEAD 8	55	
TOTAL		246*	543*

* QUANTITY SHOWN ELSEWHERE ON PLAN

TRAFFIC SIGNAL CABLE AND WIRE		
655.0610		
ELECTRICAL WIRE		
LIGHTING		
12 AWG		
FROM	TO	L.F.
SB2	LUMIN	144
SB4	LUMIN (2)	288
SB7	LUMIN	144
SB9	LUMIN (2)	288
TOTAL		864*

* QUANTITY SHOWN ELSEWHERE ON PLAN

TRAFFIC SIGNAL EVP DETECTOR CABLE			
		655.0210	655.0900
		CABLE	TRAFFIC SIGNAL
		TRAFFIC SIGNAL	EVP DETECTOR
		3-14 AWG	CABLE
FROM	TO	L.F.	L.F.
CB1	SB10 (HEAD A)	136	136
CB1	SB5 (HEAD B)	477	477
CB1	SB7 (HEAD C)	361	361
CB1	SB2 (HEAD D)	274	274
TOTAL		1248*	1248*

* QUANTITY SHOWN ELSEWHERE ON PLAN

POLES (STATE FURNISHED)								
SIGNAL BASE NO.	SPV.0060.05	SPV.0060.06	SPV.0060.07	SPV.0060.09	SPV.0060.11	657.0715	SPV.0060.13	659.1115
	INSTALL	INSTALL	INSTALL	INSTALL	INSTALL			
	POLES	POLES	POLES	MONOTUBE	MONOTUBE	LUMINAIRE ARMS	INSTALL	LUMINAIRES
	TYPE 10	TYPE 9	TYPE 10	ARMS	ARMS	TRUSS TYPE	LUMINAIRE ARMS	UTILITY
		SPECIAL	SPECIAL	15-FT	45-FT	4 1/2-INCH CLAMP 15-FT	STEEL 15-FT	LED A
	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH
SB2			1		1	1	1	1
SB4	1			1		2	2	2
SB5		1			1			
SB7			1		1	1	1	1
SB9	1			1		2	2	2
SB10		1			1			
TOTAL	2*	2	2*	2	4	6*	6*	6*

* QUANTITY SHOWN ELSEWHERE ON PLAN

POLES (CONTRACTOR FURNISHED)		
657.0100		
657.0425		
TRAFFIC SIGNAL		
STANDARDS		
PEDESTAL		
ALUMINUM		
SIGNAL	BASES	15-FT
BASE NO.	EACH	EACH
SB1	1	1
SB3	1	1
SB6	1	1
SB8	1	1
TOTAL		4*

* QUANTITY SHOWN ELSEWHERE ON PLAN

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STH 38 & EMMERTSEN RD/JOHNSON PARK DR
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FACES			
SIGNAL HEAD NO.	SIGNAL BASE NO.	658.0173	658.0174
		TRAFFIC	TRAFFIC
		SIGNAL FACE	SIGNAL FACE
		3S 12-INCH EACH	4S 12-INCH EACH
1	SB8	1	
2	SB5	1	
3	SB5	1	
4	SB3		1
5	SB4		1
6	SB3	1	
7	SB10	1	
8	SB10	1	
9	SB8		1
10	SB9		1
11	SB6	1	
12	SB2	1	
13	SB2	1	
14	SB1		1
15	SB2		1
16	SB1	1	
17	SB7	1	
18	SB7	1	
19	SB6		1
20	SB7		1
TOTAL		12*	8*

* QUANTITY SHOWN ELSEWHERE ON PLAN

LED MODULES SUMMARY (FOR INFORMATION ONLY)							
SIGNAL HEAD NO.	SIGNAL BASE NO.	LED MODULES	LED MODULES	LED MODULES	LED MODULES	LED MODULES	LED MODULES
		12-INCH	12-INCH	12-INCH	12-INCH	12-INCH	12-INCH
		RED BALL EACH	YELLOW BALL EACH	GREEN BALL EACH	RED ARROW EACH	YELLOW ARROW EACH	GREEN ARROW EACH
1	SB8	1	1	1			
2	SB5	1	1	1			
3	SB5	1	1	1			
4	SB3				1	2	1
5	SB4				1	2	1
6	SB3	1	1	1			
7	SB10	1	1	1			
8	SB10	1	1	1			
9	SB8				1	2	1
10	SB9				1	2	1
11	SB6	1	1	1			
12	SB2	1	1	1			
13	SB2	1	1	1			
14	SB1				1	2	1
15	SB2				1	2	1
16	SB1	1	1	1			
17	SB7	1	1	1			
18	SB7	1	1	1			
19	SB6				1	2	1
20	SB7				1	2	1
TOTAL		12	12	12	8	16	8

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STH 38 & EMMERTSEN RD/JOHNSON PARK DR
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ELECTRICAL SERVICE METER BREAKER PEDESTAL	
	656.0200.01 ELECTRICAL SERVICE METER BREAKER PEDESTAL
LOCATION*	L.S.
STH 38 & EMMERTSEN RD/JOHNSON PARK DR	1
TOTAL	1

SIGNAL MOUNTING HARDWARE	
	658.5069.02 SIGNAL MOUNTING HARDWARE
LOCATION	L.S.
STH 38 & EMMERTSEN RD/JOHNSON PARK DR	1
TOTAL	1

TEMPORARY TRAFFIC SIGNALS FOR INTERSECTIONS	
	661.0200.02 TEMPORARY TRAFFIC SIGNALS FOR INTERSECTIONS
LOCATION	L.S.
STH 38 & EMMERTSEN RD/JOHNSON PARK DR	1
TOTAL	1

*** FINAL LOCATION TO BE DETERMINED BY THE ENGINEER IN THE FIELD

TRANSPORT AND INSTALL STATE FURNISHED TRAFFIC SIGNAL CABINET	
	SPV.0105.08 TRANSPORT AND INSTALL STATE FURNISHED TRAFFIC SIGNAL CABINET
LOCATION	L.S.
STH 38 & EMMERTSEN RD/JOHNSON PARK DR	1
TOTAL	1

TEMP INFRARED EVP SYSTEM & CONFIRM LIGHTS	
	SPV.0105.12 TEMP INFRARED EVP SYSTEM & CONFIRM LIGHTS
LOCATION	L.S.
STH 38 & EMMERTSEN RD/JOHNSON PARK DR	1
TOTAL	1

TRANSPORT TRAFFIC SIGNAL AND INTERSECTION LIGHTING MATERIALS	
	SPV.0105.09 TRANSPORT TRAFFIC SIGNAL AND INTERSECTION LIGHTING MATERIALS
LOCATION	L.S.
STH 38 & EMMERTSEN RD/JOHNSON PARK DR	1
TOTAL	1

EVP DETECTOR HEAD INSTALLATION	
	SPV.0105.10 TRANSPORT AND INSTALL STATE FURNISHED EVP DETECTOR HEADS AND CONFIRMATION LIGHTS
LOCATION	L.S.
STH 38 & EMMERTSEN RD/JOHNSON PARK DR	1
TOTAL	1

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STH 38 CORRIDOR
RACINE COUNTY
CATEGORY 0020
COMMUNICATIONS

CONDUIT					
		671.0132	671.0232	652.0225	655.0510
		CONDUIT HDPE		CONDUIT RIGID	ELECTRICAL WIRE
		3-DUCT	DIRECTIONAL BORE	NONMETALLIC	TRAFFIC SIGNALS
		2-INCH	3-DUCT	SCHEDULE 40	12 AWG
FROM	TO	L.F.	L.F.	L.F.	L.F.
CB1 (S51-0884)	CV100			72	92
CV100	CV101	867	260		1147
CV101	CV102	1519	246		1785
CV102	CB1 (S51-0474)			61	81
CV102	CV103	2170	484		2674
CV103	CB1 (S51-0097)			114	134
CV103	CV104	1415	174		1609
CV104	CV105	744	359		1123
CV105	CB1 (S51-0056)			82	102
TOTAL		6715	1523	329*	8747

* QUANTITY SHOWN ELSEWHERE ON PLAN

FIELD SYSTEM INTEGRATOR			
		670.0100	670.0200
		FIELD SYSTEM	ITS
		INTEGRATOR	DOCUMENTATION
LOCATION*		L.S.	L.S.
2290-22-70		1	1
TOTAL		1	1

FIBER OPTIC CABLE			
		678.0036	SPV.0090.05
		INSTALL	
		FIBER OPTIC	FIBER OPTIC
		CABLE OUTDOOR	WARNING
		PLANT 36-CT	TAPE
FROM	TO	L.F.	L.F.
CV100	CV101	1127	
CV101	CV102	1765	
CV102	SV103	2654	
CV103	CV104	1589	
CV104	CV105	1103	
CV100	CB1 (S51-0884)		72
CV102	CB1 (S51-0474)		61
CV103	CB1 (S51-0097)		114
CV105	CB1 (S51-0056)		82
15% CONTINGENCY		1236	49
TOTAL		9474	378

I/C PULL BOXES & VAULTS		
		673.0105
		COMMUNICATION
		VAULT
STRUCTURE		TYPE 1
NO.	LOCATION*	EACH
CV100	144+80.0, 8.8' LT	1
CV101	156+29.8, 7.7' RT	1
CV102	174+02.5, 9.3' RT	1
CV103	200+51.1, 9.3' RT	1
CV104	216+87.3, 5.7' RT	1
CV105	230+56.1, 8.3' RT	1
TOTAL		6

* FINAL LOCATION TO BE DETERMINED BY THE ENGINEER IN THE FIELD.

FIBER OPTIC SPLICE		
		678.0200
		FIBER OPTIC
		SPLICE ENCLOSURE
LOCATION		EACH
CV100		1
CV101		1
CV102		1
CV103		1
CV104		1
CV105		1
TOTAL		6

		678.0300
		FIBER OPTIC
		SPLICE
LOCATION		EACH
CV100		4
CV101		4
CV102		4
CV103		4
CV104		4
CV105		4
TOTAL		24

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STH 38 CORRIDOR
RACINE COUNTY
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COMMUNICATIONS

FIBER OPTIC COMMUNICATIONS EQUIPMENT			
678.0600			
	INSTALL ETHERNET SWITCHES	ST-ST SINGLE MODE FIBER JUMPER 2-CT 4-FEET***	CAT-5E CABLE 5-FEET***
LOCATION	EACH	EACH	EACH
CB1 (S51-0084	1	2	1
CB1 (S51-0474)	1	2	1
CB1 (S51-0097)	1	2	1
CB1 (S51-0056)	1	2	1
TOTAL	4	8	4
* PAY ITEM INCLUDES INSTALLATION OF BOTH CONTRACTOR FURNISHED AND STATE FURNISHED MATERIALS			
*** FOR INFORMATION ONLY			

STATE FURNISHED MATERIALS SUMMARY (FOR INFORMATION ONLY)					
		PATCH PANEL WITH FIBER OPTIC CABLE PIGTAIL 8-CT		ETHERNET SWITCH	FIBER OPTIC CABLE OUTDOOR PLANT 36-CT
FROM	TO	EACH	L.F.	EACH	L.F.
CV100	CB1 (S51-0084)	1	182	1	
CV102	CB1 (S51-0474)	1	171	1	
CV103	CB1 (S51-0097)	1	224	1	
CV105	CB1 (S51-0056)	1	192	1	
CV100	CV101				1127
CV101	CV102				1765
CV102	SV103				2654
CV103	CV104				1589
CV104	CV105				1103
15% CONTINGENCY		--	--	--	1236
TOTAL		4	769	4	9474

TRANSPORT AND INSTALL STATE FURNISHED FIBER OPTIC COMMUNICATIONS MATERIALS					
	SPV.0105.13 TRANSPORT AND INSTALL STATE FURNISHED FIBER OPTIC CABLE PIGTAIL 8-CT	SPV.0105.14 TRANSPORT AND INSTALL STATE FURNISHED FIBER OPTIC CABLE PIGTAIL 8-CT	SPV.0105.15 TRANSPORT AND INSTALL STATE FURNISHED FIBER OPTIC CABLE PIGTAIL 8-CT	SPV.0105.16 TRANSPORT AND INSTALL STATE FURNISHED FIBER OPTIC CABLE PIGTAIL 8-CT	PATCH PANEL WITH FIBER OPTIC CABLE PIGTAIL 8-CT STATE FURNISHED
LOCATION	L.S.	L.S.	L.S.	L.S.	L.F.
CB1 (S51-0884)	1				182
CB1 (S51-0474)		1			171
CB1 (S51-0097)			1		224
CB1 (S51-0056)				1	192
TOTAL	1	1	1	1	769

3

STRUCTURE - CAT 0030	
509.1500	
CONCRETE	
SURFACE REPAIR	
LOCATION	SF
B-51-0003	100
TOTAL	100

CATEGORY 0030

STRUCTURE - CAT 0040					
	203.0210.S	203.0225.S	509.0301	509.0302	509.0310.S
	ABATEMENT OF ASBESTOS	DEBRIS CONTAINMENT	PREPARATION DECKS	PREPARATION DECKS	SAWING PAVEMENT DECK
	CONTAINING MATERIAL		TYPE 1	TYPE 2	PREPARATION AREAS
LOCATION	LS	LS	SY	SY	LF
B-51-0054	1	1	20	8	100
TOTAL	1	1	20	8	100

	509.1500	509.2000	509.2100.S	509.3500.S	509.9010.S
	CONCRETE	FULL-DEPTH	CONCRETE MASONRY	HMA OVERLAY	REMOVING ASPHALTIC
	SURFACE REPAIR	DECK REPAIR	DECK REPAIR	POLYMER MODIFIED	CONCRETE DECK OVERLAY
LOCATION	SF	SY	CY	TON	SY
B-51-0054	1	1	3	88	638
TOTAL	1	1	3	88	638

CATEGORY 0040

STRUCTURE - CAT 0050									
	509.0301 PREPARATION DECKS TYPE 1	509.0302 PREPARATION DECKS TYPE 2	509.0310.S SAWING PAVEMENT DECK PREPARATION AREAS	509.1500 CONCRETE SURFACE REPAIR	509.2000 FULL-DEPTH DECK REPAIR	509.2100.S CONCRETE MASONRY DECK REPAIR	509.3500.S HMA OVERLAY POLYMER MODIFIED	509.9010.S REMOVING ASPHALTIC CONCRETE DECK OVERLAY	SPV.0105.01 DEBRIS CONTAINMENT OVER WATERWAY
LOCATION	SY	SY	LF	SF	SY	CY	TON	SY	LS
B-51-0074	20	8	100	15	1	3	97	702	1
TOTAL	20	8	100	15	1	3	97	702	1

CATEGORY 0050

VILLAGE OF MT PLEASANT							NOTES
ADJUSTING MANHOLE COVERS SPV.0060.13	RECONSTRUCTING MANHOLES SPV.0060.14	SALVAGED MANHOLE COVERS 611.9705	COVER PLATES TEMPORARY 611.8120.S	DRILLED TIE BARS** 416.0610	SAWING CONCRETE** 690.0250		
LOCATION	EACH	EACH	EACH	EACH	LF		
STA 181+42, 30.4' RT		1	1	1	8	20	INSTALL 24" RISER SECTION
STA 185+38, 31.1' RT		1	1	1	8	20	INSTALL 28" RISER SECTION; REPLACE COVER
STA 187+10, 32.7' RT	1			1	8	20	REPLACE COVER & CASTING
STA 190+64, 29.6' RT	1			1	8	20	REPLACE COVER & CASTING
STA 190+64, 39.6' LT		1			8	20	INSTALL 12" RISER SECTION; REPLACE COVER & CASTING
STA 193+25, 29.1' RT	1		1	1	8	20	
STA 193+55, 38.7' LT	1		1	1	8	20	
STA 196+19, 24.1' RT		1	1		8	20	INSTALL 28" RISER SECTION
STA 200+24, 12.6' RT	1			1	8	20	REPLACE COVER & CASTING
STA 202+44, 14.9' RT	1		1	1	8	20	
STA 204+23, 20.4' RT	1			1	8	20	REPLACE COVER & CASTING
STA 208+22, 23.4' RT	1		1	1	8	20	
STA 212+24, 25.3' RT	1			1	8	20	REPLACE COVER & CASTING
STA 212+32, 14.0' RT	1			1	8	20	ROTATE CONE TO MOVE MH OUT OF CURB PAN IF POSSIBLE; REPLACE COVER & CASTING
STA 213+59, 14.0' RT	1		1	1	8	20	ROTATE CONE TO MOVE MH OUT OF CURB PAN IF POSSIBLE
STA 213+72, 25.1' RT	1		1	1	8	20	
STA 218+11, 28.0' RT	1		1	1	8	20	
STA 219+39, 40.5' RT		1	1		8	20	INSTALL 12" RISER SECTION
STA 220+05, 34.5' LT		1	1		8	20	INSTALL 12" RISER SECTION
STA 221+59, 35.5' RT	1		1	1	8	20	
STA 222+73, 40.1' LT		1	1		8	20	INSTALL 16" RISER SECTION
STA 223+82, 27.4' RT		1	1		8	20	INSTALL 16" RISER SECTION
STA 225+07, 39.9' LT	1			1	8	20	REPLACE COVER & CASTING
STA 226+83, 35.8' RT		1	1		8	20	INSTALL 24" RISER SECTION
TOTAL	15	9	16	17	192	480	

NOTE:
**ADDITIONAL QUANTITIES SHOWN ELSEWHERE IN PLAN

CATEGORY 0060

TYPE II PERMANENT SIGNING - 2290-22-70														2290-22-70 STH 38
SIGN NO.	SIGN CODE & SIZE	SIGN MESSAGE	SIGN SIZE			637.2210	637.2215	638.2602	638.3000	634.0618	638.2102	634.0808	MOUNT ON SAME POST AS SIGN #	REMARKS / NEW SIGN LOCATION
			W [IN.]	x	H [IN.]	SIGNS TYPE II REFLC H [SF]	SIGNS TYPE II REFLC H FOLDING [SF]	REMOVING SIGNS TYPE II [EA]	REMOVING SMALL SIGN SUPPORTS [EA]	WOOD POSTS 4"x 6"x18' [EA]	MOVE SIGNS TYPE II [EA]	POST TUBULAR STEEL 2'X2'X8' [EA]		
1	-- M1-94S	38 , Northwestern Ave	102	x	18	12.750	--	--	--	--	--	1	--	MOUNT ON MAST ARM / SEE SHT 4 OF 18
2	--	WT LIMIT CLASS B	--	x	--	--	--	--	--	--	1	--	--	SEE SHEET 4 OF 18
3	--	Sign No. not being used	--	x	--	--	--	--	--	--	--	--	--	--
4	-- R1-1F (3)	--	36	x	36	--	7.460	1	--	--	--	--	--	MOUNT ON SIGNAL POLE / SEE SHT 4 OF 18
5	-- R1-1F (3)	--	36	x	36	--	7.460	1	--	--	--	--	--	MOUNT ON SIGNAL POLE / SEE SHT 4 OF 18
6	-- R6-3 (2M)	--	30	x	24	5.000	--	--	--	--	--	--	--	MOUNT ON SIGNAL POLE / SEE SHT 4 OF 18
7	-- R10-50L(2M)	--	30	x	36	7.500	--	--	--	--	--	--	--	MOUNT ABOVE SIGNAL ,ON SIGNAL POLE
8	-- R10-50L(2M)	--	30	x	36	7.500	--	--	--	--	--	--	--	MOUNT ABOVE SIGNAL ,ON SIGNAL POLE
9	-- R6-2(3)	--	36	x	48	12.000	--	1	--	--	--	--	--	MOUNT ON SIGNAL POLE / SEE SHT 4 OF 18
10	-- R1-1F (3)	--	36	x	36	--	7.460	1	--	--	--	--	--	MOUNT ON SIGNAL POLE / SEE SHT 4 OF 18
11	-- M1-94H	Emmertsen Rd	108	x	18	13.500	--	--	--	--	--	--	--	MOUNT ON MAST ARM / SEE SHT 4 OF 18
12	-- R6-3 (2M)	--	30	x	24	5.000	--	--	--	--	--	--	--	MOUNT ON SIGNAL POLE / SEE SHT 4 OF 18
13	-- R1-1F (3)	--	36	x	36	--	7.460	1	--	--	--	--	--	MOUNT ON SIGNAL POLE / SEE SHT 4 OF 18
14	-- R4-7(3)	--	36	x	48	12.000	--	1	--	--	--	--	--	MOUNT ON SIGNAL POLE / SEE SHT 4 OF 18
15	-- M1-94S	38 , Northwestern Ave	102	x	18	12.750	--	--	--	--	--	--	--	MOUNT ON MAST ARM / SEE SHT 4 OF 18
16	-- R6-2(3)	--	36	x	48	12.000	--	--	--	--	--	--	--	MOUNT ON SIGNAL POLE / SEE SHT 4 OF 18
17	-- R1-1F (3)	--	36	x	36	--	7.460	1	--	--	--	--	--	MOUNT ON SIGNAL POLE / SEE SHT 4 OF 18
18	-- R1-1F (3)	--	36	x	36	--	7.460	1	--	--	--	--	--	MOUNT ON SIGNAL POLE / SEE SHT 4 OF 18
19	-- R6-2(3)	--	36	x	48	12.000	--	1	--	--	--	--	--	MOUNT ON SIGNAL POLE / SEE SHT 4 OF 18
20	-- R1-1F (3)	--	36	x	36	--	7.460	1	--	--	--	--	--	MOUNT ON SIGNAL POLE / SEE SHT 4 OF 18
21	-- R6-3 (2M)	--	30	x	24	5.000	--	1	--	--	--	--	--	MOUNT ON SIGNAL POLE / SEE SHT 4 OF 18
22	-- M1-94H	Emmertsen Rd	108	x	18	13.500	--	--	--	--	--	--	--	MOUNT ON MAST ARM / SEE SHT 4 OF 18
23	-- D1-65	Newman Rd	84	x	18	10.500	--	--	--	--	--	--	--	MOUNT ON MAST ARM / SEE SHT 9 OF 18
24	-- D1-65	Newman Rd	84	x	18	10.500	--	--	--	--	--	--	--	MOUNT ON MAST ARM / SEE SHT 9 OF 18
25	-- M1-94S	38 , Northwestern Ave	102	x	18	12.750	--	--	--	--	--	--	--	MOUNT ON MAST ARM / SEE SHT 9 OF 18
26	-- M1-94S	38 , Northwestern Ave	102	x	18	12.750	--	--	--	--	--	--	--	MOUNT ON MAST ARM / SEE SHT 9 OF 18
27	-- R1-1F (3)	--	36	x	36	--	7.460	1	--	--	--	--	--	MOUNT ON SIGNAL POLE / SEE SHT 9 OF 18
28	-- R1-1F (3)	--	36	x	36	--	7.460	1	--	--	--	--	--	MOUNT ON SIGNAL POLE / SEE SHT 9 OF 18
29	--	No. not being used	--	x	--	--	--	--	--	--	--	--	--	--
30	-- R6-2L(3)	--	36	x	48	12.000	--	1	--	--	--	--	--	MOUNT ON SIGNAL POLE / SEE SHT 9 OF 18
31	-- R1-2	YIELD SIGN	--	x	--	--	--	--	--	1	1	--	--	MOVE TO SAME LOCATION/ SEE SHT 9 OF 18
32	-- R6-3 (2M)	--	30	x	24	5.000	--	--	--	--	--	--	--	MOUNT ON SIGNAL POLE / SEE SHT 9 OF 18
33	-- R1-1F (3)	--	36	x	36	--	7.460	1	--	--	--	--	--	MOUNT ON SIGNAL POLE / SEE SHT 9 OF 18
34	-- R1-1F (3)	--	36	x	36	--	7.460	1	--	--	--	--	--	MOUNT ON SIGNAL POLE / SEE SHT 9 OF 18
35	--	Sign No. not being used	--	x	--	--	--	--	--	--	--	--	--	--
36	-- R10-50L(2M)	--	30	x	36	7.500	--	--	--	--	--	--	--	MOUNT ABOVE SIGNAL ,ON SIGNAL POLE
37	-- R10-50L(2M)	--	30	x	36	7.500	--	--	--	--	--	--	--	MOUNT ABOVE SIGNAL ,ON SIGNAL POLE
38	-- R1-1F (3)	--	36	x	36	--	7.460	1	--	--	--	--	--	MOUNT ON SIGNAL POLE / SEE SHT 9 OF 18
39	-- R1-1F (3)	--	36	x	36	--	7.460	1	--	--	--	--	--	MOUNT ON SIGNAL POLE / SEE SHT 9 OF 18
40	-- R6-2L(3)	--	36	x	48	12.000	--	1	--	--	--	--	--	MOUNT ON SIGNAL POLE / SEE SHT 9 OF 18
41	-- R1-2	YIELD SIGN	--	x	--	--	--	--	--	1	1	--	--	MOVE TO SAME LOCATION/ SEE SHT 9 OF 18
42	-- R6-3 (2M)	--	30	x	24	5.000	--	--	--	--	--	--	--	MOUNT ON SIGNAL POLE / SEE SHT 9 OF 18
43	-- R4-7(3)	--	36	x	48	12.000	--	1	--	--	--	--	--	MOUNT ON SIGNAL POLE / SEE SHT 9 OF 18
44	-- R4-7(3)	--	36	x	48	12.000	--	1	--	--	--	--	--	MOUNT ON SIGNAL POLE / SEE SHT 9 OF 18
45	-- J3-3	NORTH / SOUTH / SOUTH	--	x	--	--	--	--	--	2	2	--	--	MOVE TO SAME LOCATION/
--	--	STH 31/ STH 38/ STH 31	--	x	--	--	--	--	--	--	--	--	--	SEE SHT 12 OF 18
--	--	ARRW/ ARRW/ ARRW	--	x	--	--	--	--	--	--	--	--	--	--
46	-- R6-2R(3)	--	36	x	48	12.000	--	--	--	1	--	--	--	SEE SHT 13 OF 18
47	-- R6-2R(3)	--	36	x	48	12.000	--	--	--	--	--	--	46	SEE SHT 13 OF 18
48	-- R4-7	KEEP RIGHT SIGN	--	x	--	--	--	1	1	--	--	--	--	SEE SHT 13 OF 18
49	-- R4-7	KEEP RIGHT SIGN	--	x	--	--	--	1	1	--	--	--	--	SEE SHT 13 OF 18
50	-- R4-7(3)	KEEP RIGHT SIGN	36	x	48	12.000	--	1	1	--	--	--	--	SEE SHT 14 OF 18
51	-- J3-4	ALTER / ALTER/ ALTER / ALTER	--	x	--	--	--	--	--	2	2	--	--	SEE SHT 14 OF 18
--	--	SOUTH/ EAST / NORTH / WEST	--	x	--	--	--	--	--	--	--	--	--	--
--	--	IH 41 / IH 94 / IH 41 / IH94	--	x	--	--	--	--	--	--	--	--	--	--
52	-- R3-20L	BEGIN LEFT TURN LANE (ARROW)	--	x	--	--	--	--	--	1	1	--	--	MOVE TO SAME LOCATION/ SEE SHT 14 OF 18
53	-- R4-7	KEEP RIGHT SIGN	--	x	--	--	--	--	--	1	1	--	--	MOVE TO SAME LOCATION/ SEE SHT 16 OF 18
54	-- R4-7	KEEP RIGHT SIGN	--	x	--	--	--	--	--	1	1	--	--	MOVE TO SAME LOCATION/ SEE SHT 16 OF 18
55	-- R4-7(3)	--	36	x	48	12.000	--	1	--	--	--	--	--	MOUNT ON SIGNAL POLE / SEE SHT 4 OF 18
56	-- R4-7(3)	--	36	x	48	12.000	--	1	--	--	--	--	--	MOUNT ON SIGNAL POLE / SEE SHT 4 OF 18
57	R1-57(2S)	--	30	x	36	7.500	--	--	--	1	--	--	--	SHEET 16 OF 18
58	-- R5-1(2S)	--	30	x	30	6.250	--	--	--	--	1	--	--	SEE SHEET 14 OF 18
59	-- R4-7(3)	--	36	x	48	12.000	--	--	--	1	--	--	--	SEE SHEET 14 OF 18
--	--	Undistributed Quantities	--	x	--	--	--	--	2	3	3	--	--	--
TOTALS						335.750	96.980	26	5	16	14	1		

3

OVERHEAD SIGN SUPPORT - MISC QUANTITIES

2290-22-70

LOCATION	OVERHEAD SIGN SUPPORT S-51-257 641.8100 L.S.
STH 38 Eastbound at CTH MM	1
TOTAL	1

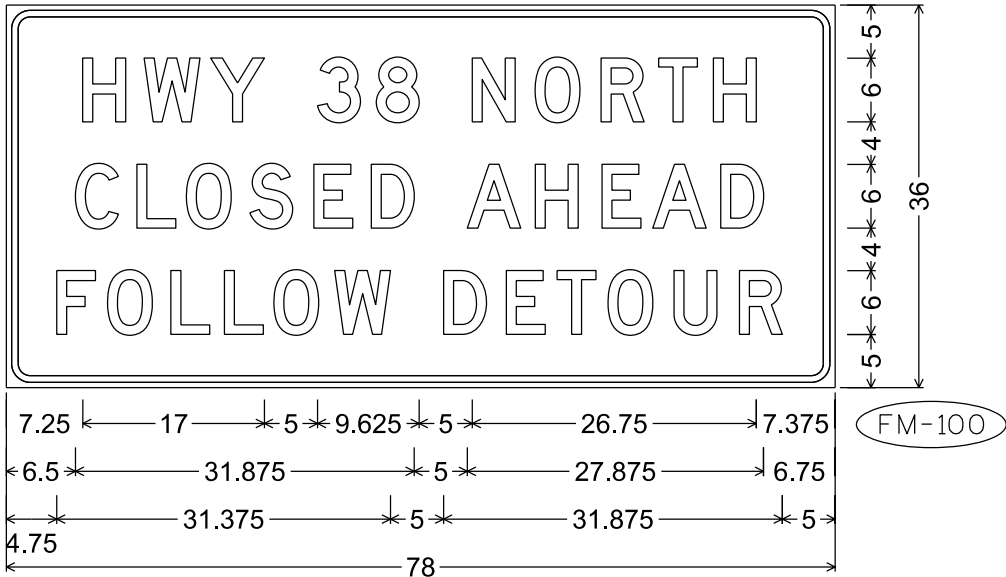
3

REMOVING OVERHEAD SIGN SUPPORT - MISC QUANTITIES

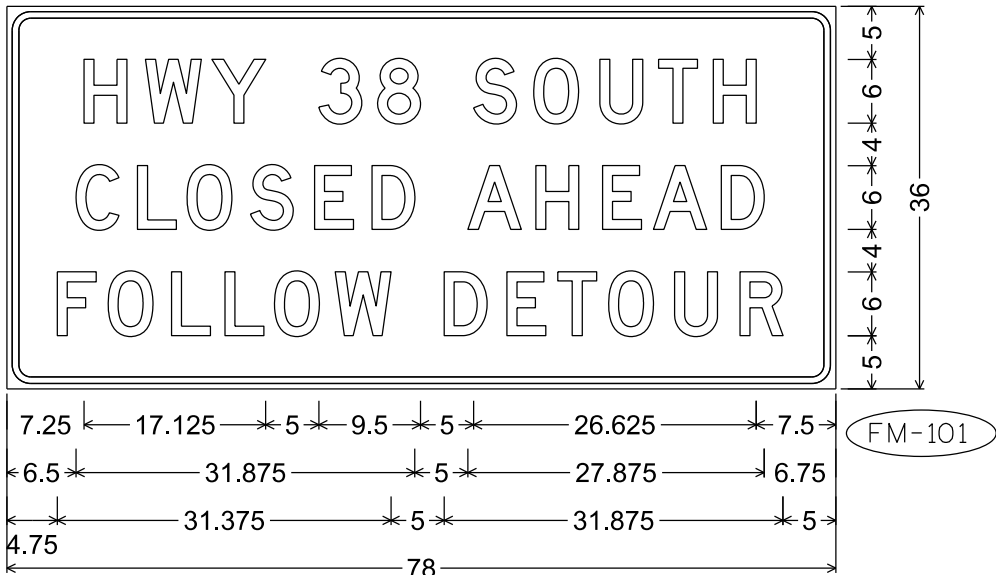
2290-22-70

LOCATION	REMOVING OVERHEAD SIGN SUPPORT S-51-11 204.9105.S.01 L.S.
STH 38 Eastbound at CTH MM	1
TOTAL	1

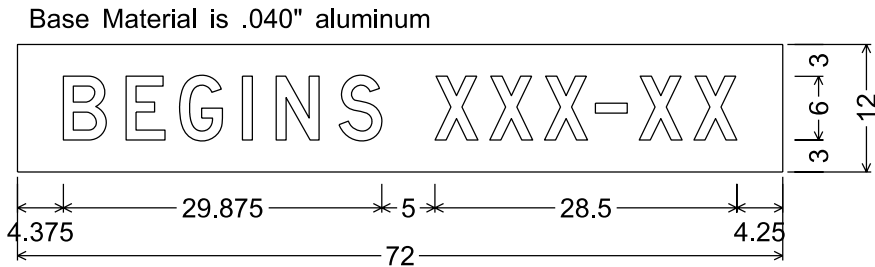
7



2.250" Radius, 0.625" Border, 0.500" Indent



2.250" Radius, 0.625" Border, 0.500" Indent

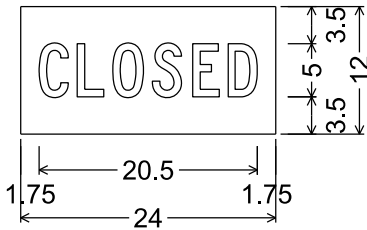


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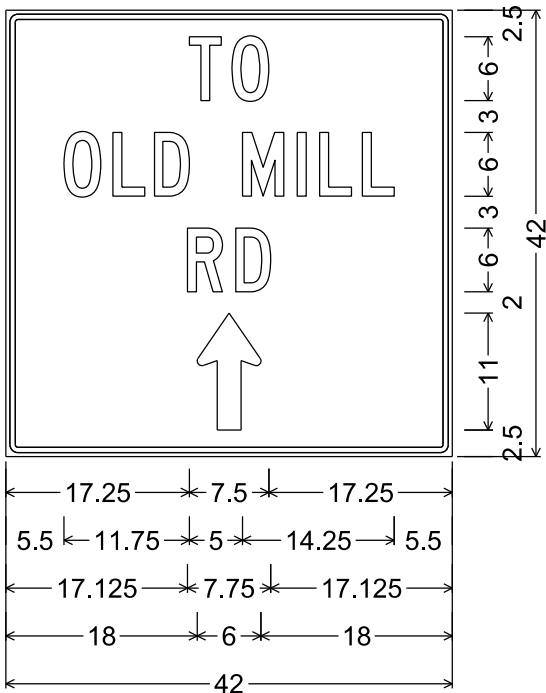
NOTES

1. All Signs Type II - Type F Reflective
2. Color:
Background - Orange
Message - Black
3. Message Series - D except as noted

Base Material is .040" aluminum



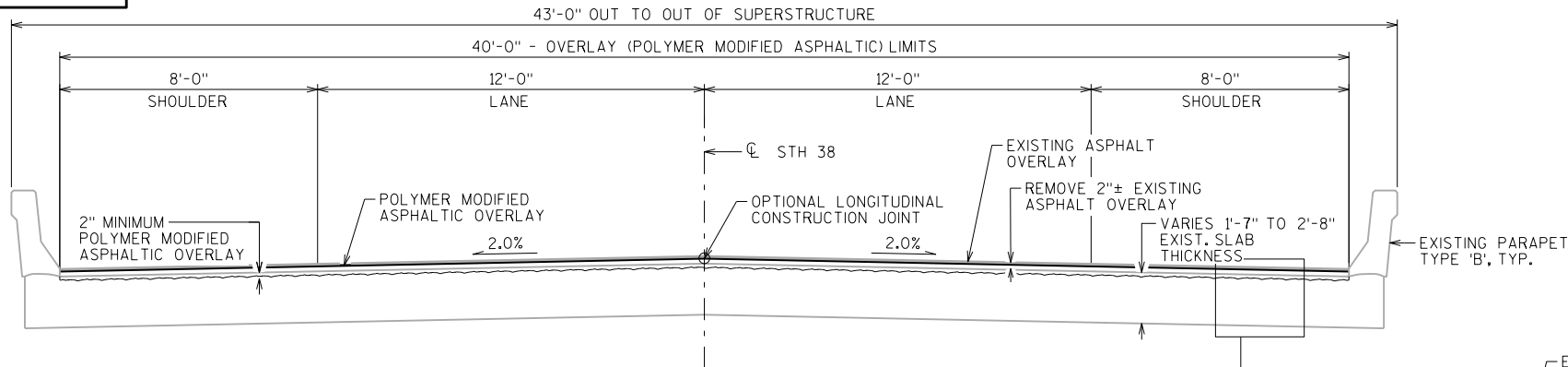
No border,
"CLOSED", C



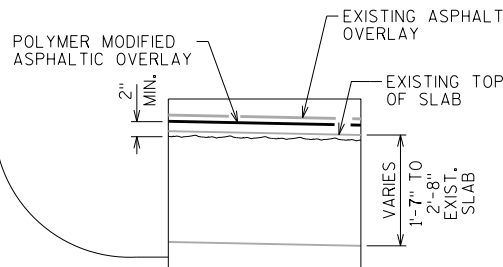
1.125" Radius, 0.500" Border, 0.375" Indent,
"TO", C; "OLD", C; "MILL", C; "RD", C

7

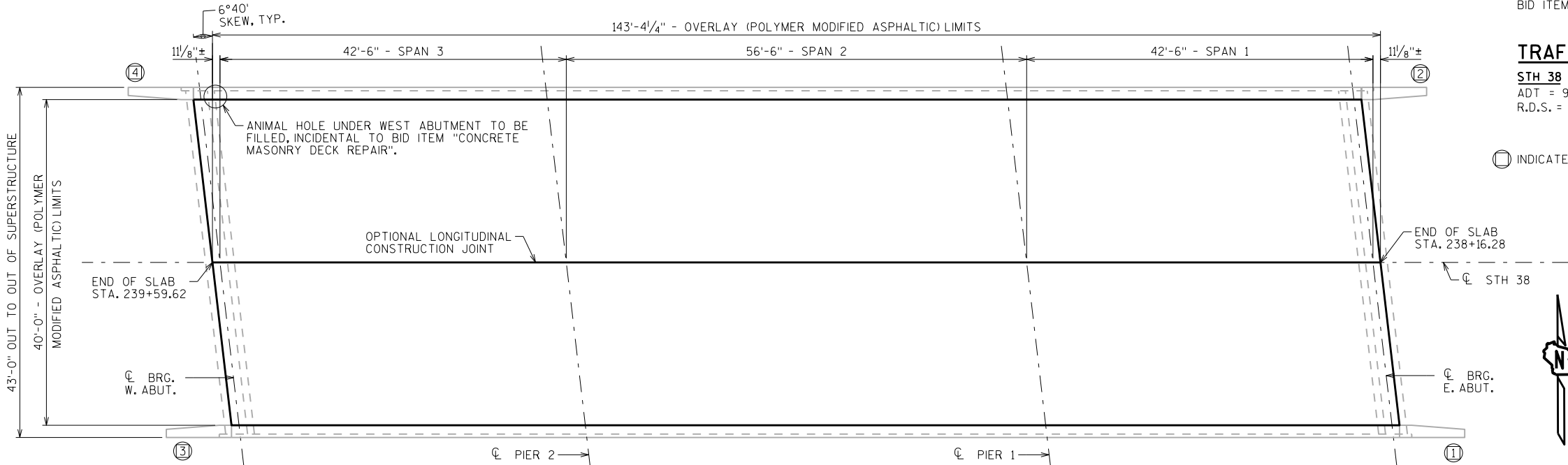
AVERAGE OVERLAY THICKNESS 2 1/2"



CROSS SECTION THRU ROADWAY
LOOKING EAST



SLAB DETAIL



PLAN
TOP OF SLAB SHOWN



TRAFFIC VOLUME

STH 38
ADT = 9,600 (2014)
R.D.S. = 55 M.P.H.

⊙ INDICATES WING NUMBER

LIST OF DRAWINGS

1. POLYMER MODIFIED ASPHALT OVERLAY

STRUCTURE DESIGN CONTACTS:

EMILY KUEHNE (608) 266-5089
DOMINIQUE BECHLE (608) 261-8205

TOTAL ESTIMATED QUANTITIES

BID ITEM NUMBER	BID ITEMS	UNIT	TOTAL
203.0210.S	ABATEMENT OF ASBESTOS CONTAINING MATERIAL B-51-54	LS	1
203.0225.S	DEBRIS CONTAINMENT B-51-54	LS	1
509.0301	PREPARATION DECKS TYPE 1	SY	20
509.0302	PREPARATION DECKS TYPE 2	SY	8
509.0310.S	SAWING PAVEMENT DECK PREPARATION AREAS	LF	100
509.1500	CONCRETE SURFACE REPAIR	SF	1
509.2000	FULL-DEPTH DECK REPAIR	SY	1
509.2100.S	CONCRETE MASONRY DECK REPAIR	CY	3
509.3500.S	HMA OVERLAY POLYMER-MODIFIED	TON	88
509.9010.S	REMOVING ASPHALTIC CONCRETE DECK OVERLAY B-51-54	SY	638

▲ CONCRETE SURFACE REPAIR AS DIRECTED BY THE ENGINEER

STATE PROJECT NUMBER

2290-22-70

DESIGN DATA

LIVE LOAD:

INVENTORY RATING: HS-24
OPERATING RATING: HS-41
MAXIMUM STANDARD PERMIT VEHICLE LOAD: 250 (KIPS)

MATERIAL PROPERTIES:

CONCRETE MASONRY DECK REPAIR f'c = 4,000 P.S.I.
CONCRETE MASONRY OTHER f'c = 3,500 P.S.I.

GENERAL NOTES

DRAWINGS SHALL NOT BE SCALED.

DIMENSIONS SHOWN ARE BASED ON THE ORIGINAL STRUCTURE PLANS.

AREAS OF "PREPARATION DECKS TYPE 1" SHALL BE DEFINED BY A SAW CUT.

PREPARATION DECKS TYPE 1, PREPARATION DECKS TYPE 2 AND FULL-DEPTH DECK REPAIR AREAS ARE BASED ON THE PLANS AND AS DETERMINED BY THE ENGINEER. DECK PREPARATION AND FULL-DEPTH DECK REPAIRS SHALL BE FILLED WITH "CONCRETE MASONRY DECK REPAIR".

ANY EXCAVATION NECESSARY TO COMPLETE THE OVERLAY AT THE ABUTMENTS IS TO BE CONSIDERED INCIDENTAL TO THE BID ITEM "HMA OVERLAY POLYMER-MODIFIED".

THE PLAN QUANTITY FOR THE BID ITEM "HMA OVERLAY POLYMER-MODIFIED" IS BASED ON THE AVERAGE OVERLAY THICKNESS.

PROFILE GRADE LINE SHALL BE DETERMINED IN THE FIELD BASED ON A MINIMUM OVERLAY THICKNESS OF 2" PLACED ABOVE THE DECK SURFACE AFTER SURFACE PREPARATION. EXPECTED AVERAGE OVERLAY THICKNESS IS 2 1/2" TO ACCOUNT FOR DECK VARIABILITY. IF EXPECTED AVERAGE OVERLAY THICKNESS IS EXCEEDED BY MORE THAN 1/2", CONTACT THE STRUCTURES DESIGN SECTION.

THE EXISTING OVERLAY SHALL BE REMOVED FROM THE BRIDGE DECK UNDER BID ITEM "REMOVING ASPHALTIC CONCRETE DECK OVERLAY B-51-54".

NO.	DATE	REVISION	BY
			
ACCEPTED CHIEF STRUCTURES DESIGN ENGINEER _____ DATE _____			
STRUCTURE B-51-54			
STH 38 OVER CNW RR			
COUNTY	RACINE	VILLAGE	CALEDONIA
DESIGN SPEC. REHABILITATION N/A			
DESIGNED BY	EMK	DESIGNED CK'D. RATINGS	DRAWN BY EMK PLANS CK'D. AA
POLYMER MODIFIED ASPHALT OVERLAY			SHEET 1 OF 1

DESIGN DATA

LIVE LOAD:
INVENTORY RATING: HS-25
OPERATING RATING: HS-42
MAXIMUM STANDARD PERMIT VEHICLE LOAD: 250 (KIPS)

MATERIAL PROPERTIES:
CONCRETE MASONRY DECK REPAIR _____ f'c = 4,000 P.S.I.
CONCRETE MASONRY OTHER _____ f'c = 3,500 P.S.I.

GENERAL NOTES

DRAWINGS SHALL NOT BE SCALED.
DIMENSIONS SHOWN ARE BASED ON THE ORIGINAL STRUCTURE PLANS.
AREAS OF "PREPARATION DECKS TYPE 1" SHALL BE DEFINED BY A SAW CUT.
PREPARATION DECKS TYPE 1, PREPARATION DECKS TYPE 2 AND FULL-DEPTH DECK REPAIR AREAS ARE BASED ON THE PLANS AND AS DETERMINED BY THE ENGINEER. DECK PREPARATION AND FULL-DEPTH DECK REPAIRS SHALL BE FILLED WITH "CONCRETE MASONRY DECK REPAIR".

ANY EXCAVATION NECESSARY TO COMPLETE THE OVERLAY AT THE ABUTMENTS IS TO BE CONSIDERED INCIDENTAL TO THE BID ITEM "HMA OVERLAY POLYMER-MODIFIED".

THE PLAN QUANTITY FOR THE BID ITEM "HMA OVERLAY POLYMER-MODIFIED" IS BASED ON THE AVERAGE OVERLAY THICKNESS.

PROFILE GRADE LINE SHALL BE DETERMINED IN THE FIELD BASED ON A MINIMUM OVERLAY THICKNESS OF 2" PLACED ABOVE THE DECK SURFACE AFTER SURFACE PREPARATION. EXPECTED AVERAGE OVERLAY THICKNESS IS 2 1/2" TO ACCOUNT FOR DECK VARIABILITY. IF EXPECTED AVERAGE OVERLAY THICKNESS IS EXCEEDED BY MORE THAN 1/2", CONTACT THE STRUCTURES DESIGN SECTION.

THE EXISTING OVERLAY SHALL BE REMOVED FROM THE BRIDGE DECK UNDER BID ITEM "REMOVING ASPHALTIC CONCRETE DECK OVERLAY B-51-74".

TRAFFIC VOLUME

STH 38
ADT = 9,300 (2014)
R.D.S. = 55 M.P.H.

⊖ INDICATES WING NUMBER

LIST OF DRAWINGS

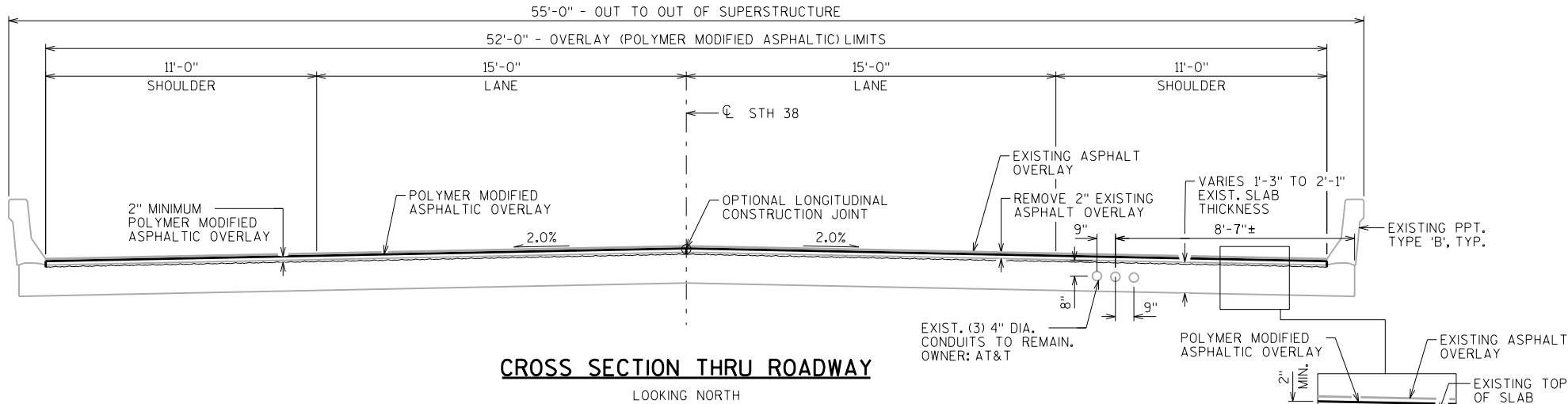
1. POLYMER MODIFIED ASPHALT OVERLAY

STRUCTURE DESIGN CONTACTS:

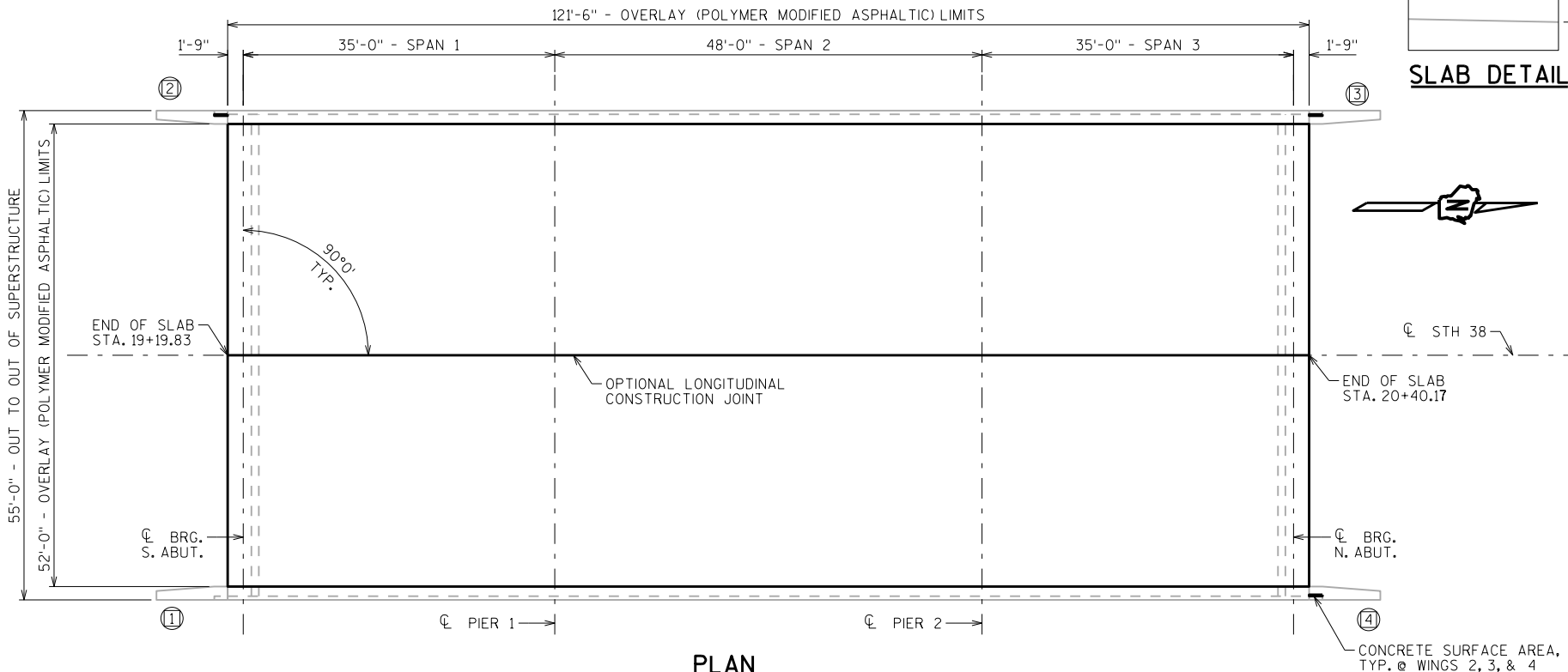
EMILY KUEHNE (608) 266-5089
DOMINIQUE BECHLE (608) 261-8205

NO.	DATE	REVISION	BY
 BUREAU OF STRUCTURES			
ACCEPTED _____ CHIEF STRUCTURES DESIGN ENGINEER DATE _____			
STRUCTURE B-51-74			
STH 38 OVER ROOT RIVER			
COUNTY	RACINE	VILLAGE	CALEDONIA
DESIGN SPEC. REHABILITATION N/A			
DESIGNED BY	EMK	DESIGNED CK'D. RATINGS	DRAWN BY EMK PLANS CK'D. NAR
POLYMER MODIFIED ASPHALT OVERLAY			SHEET 1 OF 1
			PRE_198

AVERAGE OVERLAY THICKNESS 2 1/2"

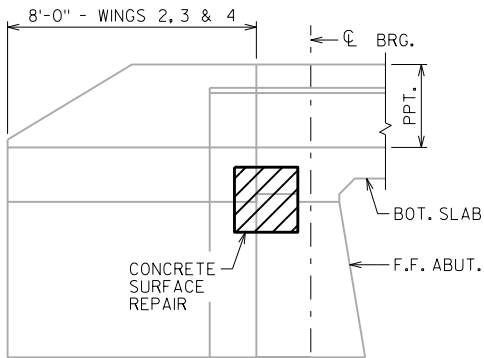


SLAB DETAIL



PLAN

TOP OF SLAB SHOWN



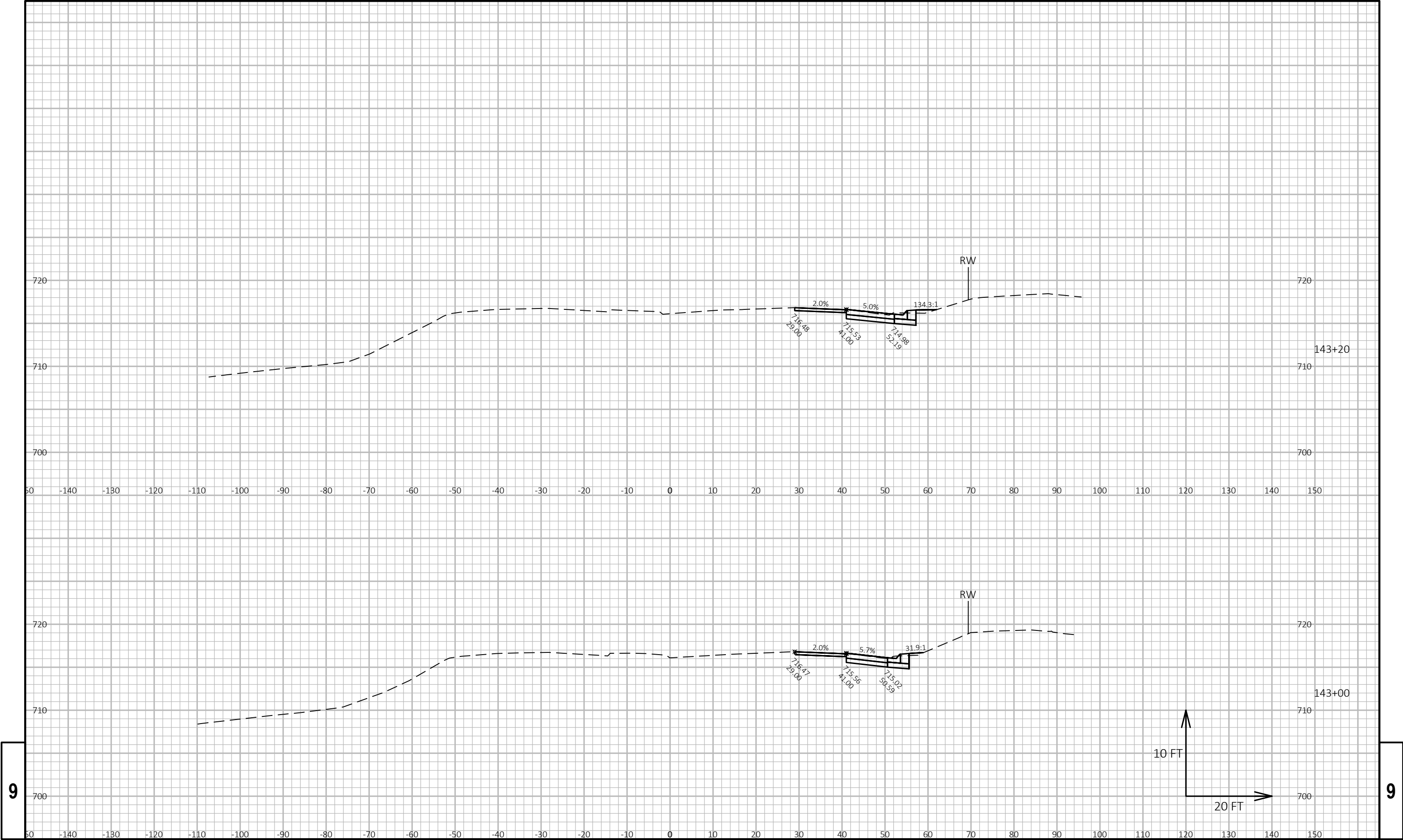
ELEVATION WING 2, 3 & 4

SHOWING CONCRETE SURFACE REPAIR

TOTAL ESTIMATED QUANTITIES

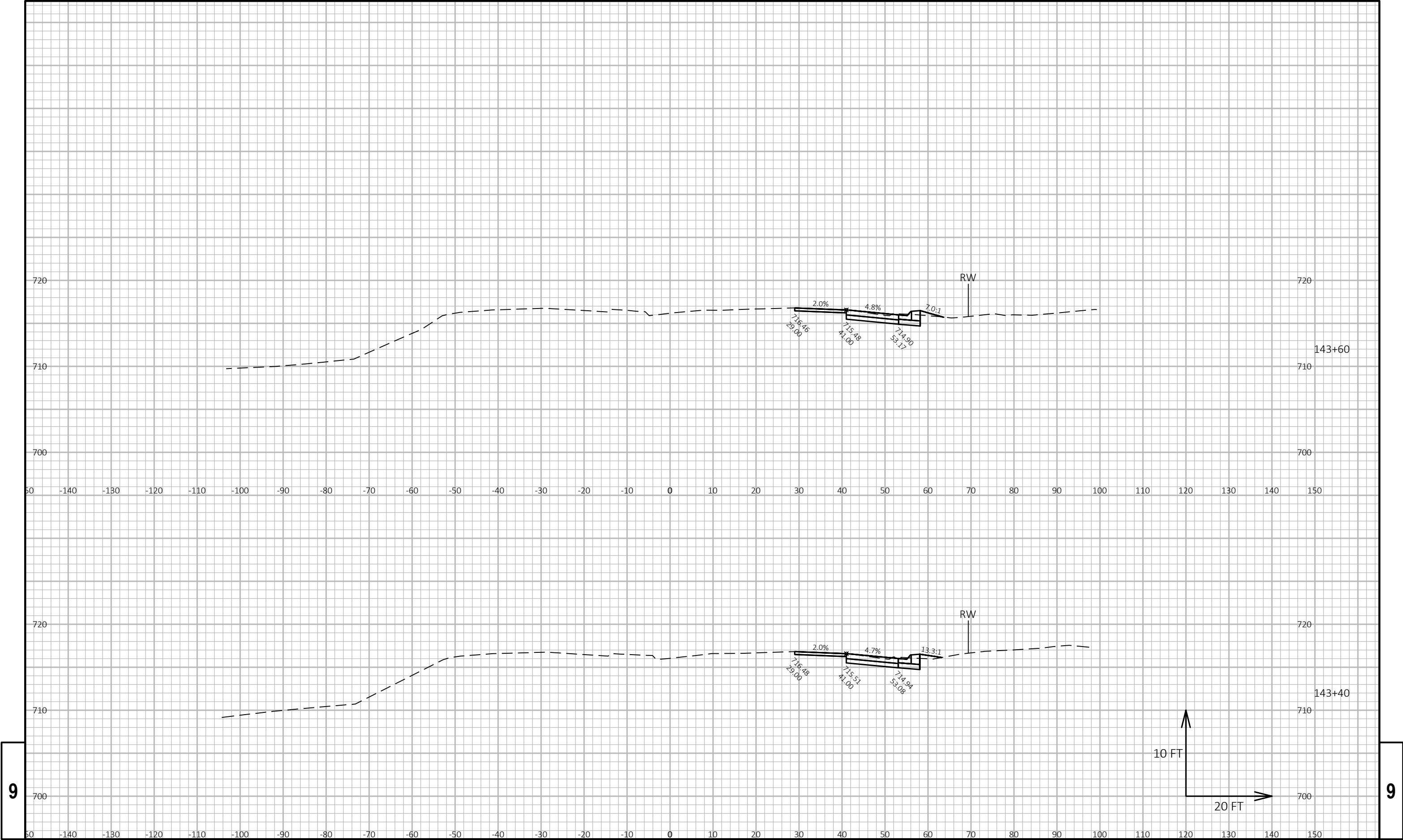
BID ITEM NUMBER	BID ITEMS	UNIT	TOTAL
509.0301	PREPARATION DECKS TYPE 1	SY	20
509.0302	PREPARATION DECKS TYPE 2	SY	8
509.0310.S	SAWING PAVEMENT DECK PREPARATION AREAS	LF	100
▲ 509.1500	CONCRETE SURFACE REPAIR	SF	15
509.2000	FULL-DEPTH DECK REPAIR	SY	1
509.2100.S	CONCRETE MASONRY DECK REPAIR	CY	3
509.3500.S	HMA OVERLAY POLYMER-MODIFIED	TON	97
509.9010.S	REMOVING ASPHALTIC CONCRETE DECK OVERLAY B-51-74	SY	702
SPV.0105.01	DEBRIS CONTAINMENT OVER WATERWAYS	LS	1

▲ CONCRETE SURFACE REPAIR AS DIRECTED BY THE ENGINEER, ESTIMATED: 1 SF EAST PPT., 1 SF SOUTH ABUT., 5 SF NORTH ABUT. AND 3 SF PIER



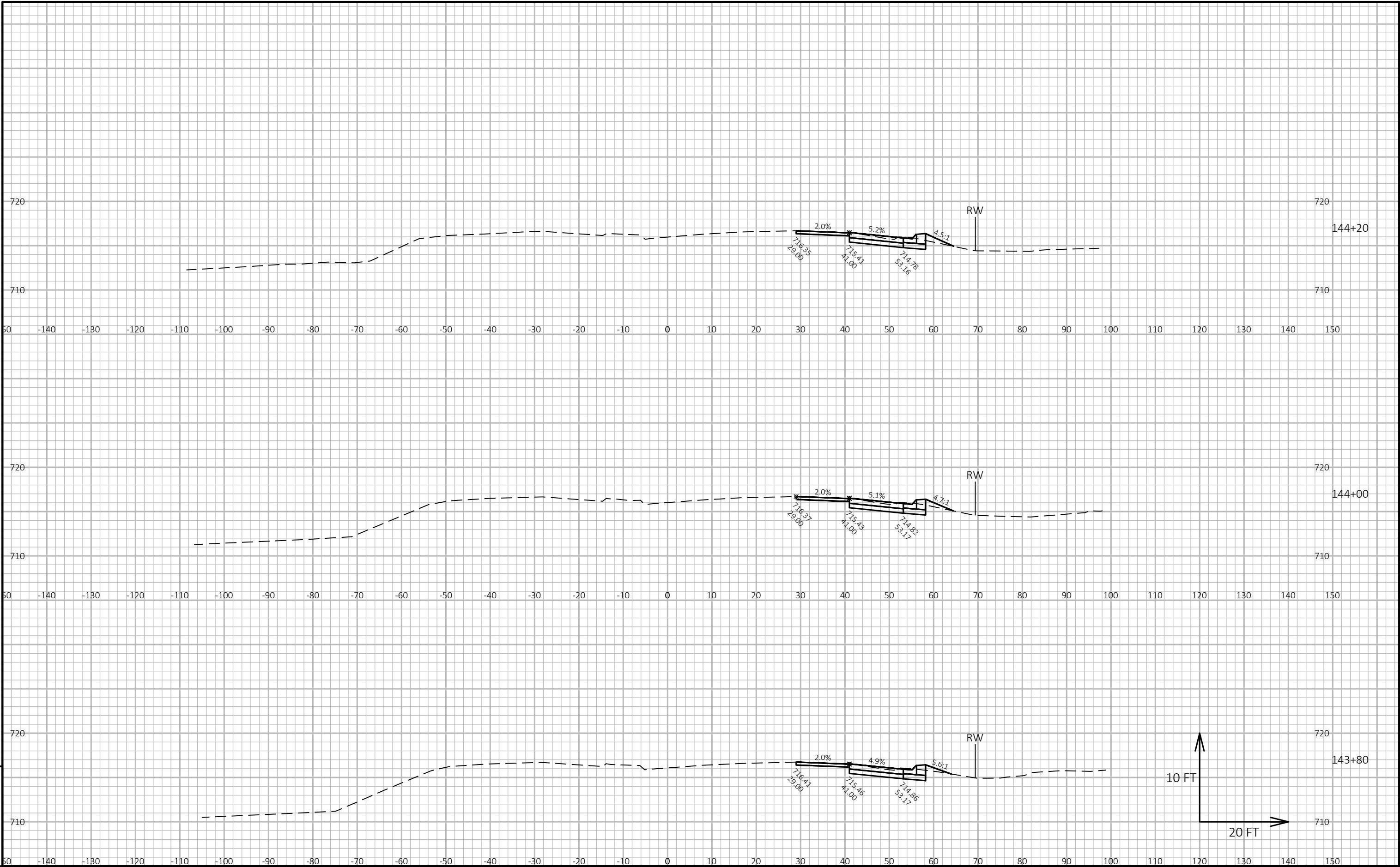
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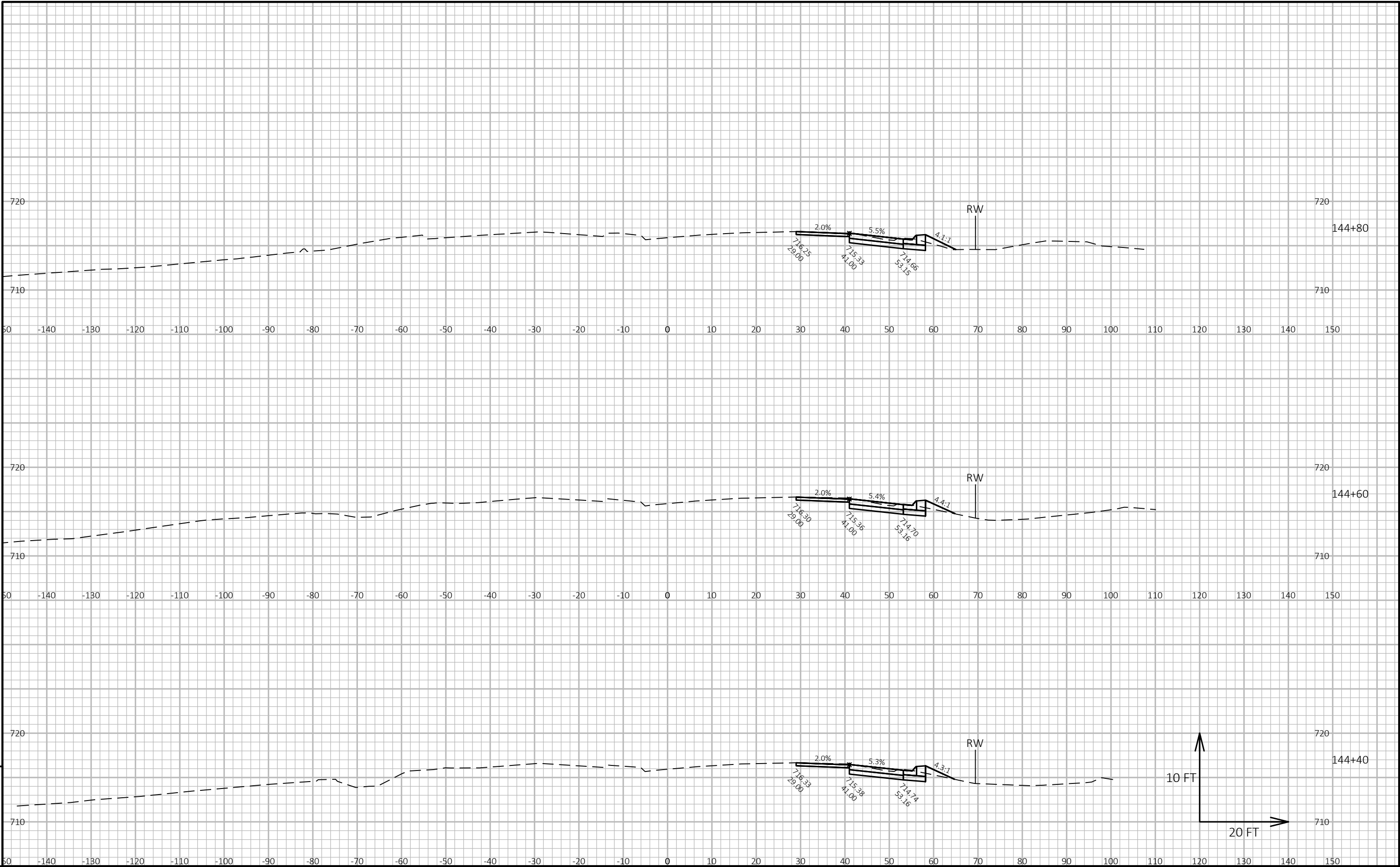
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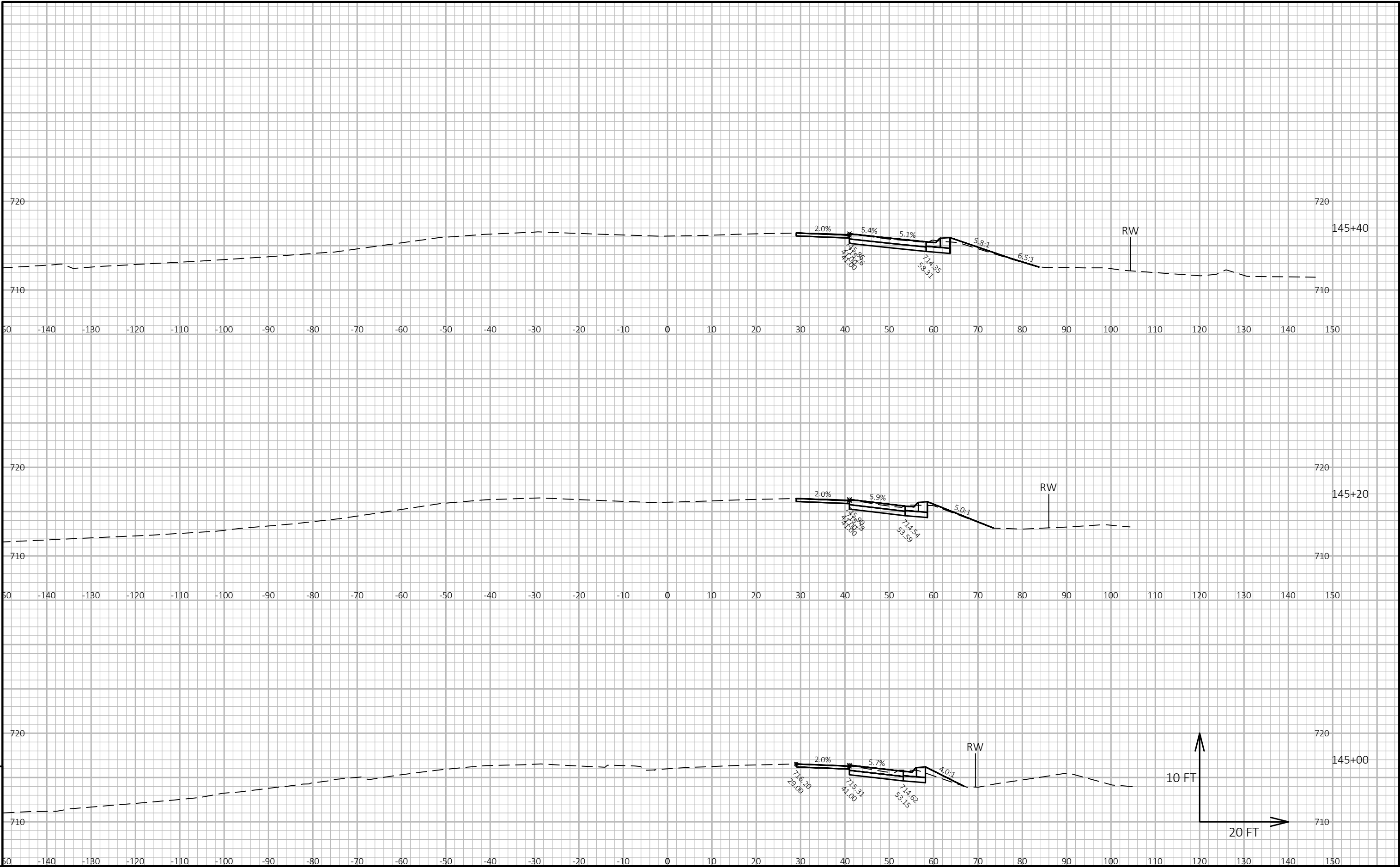


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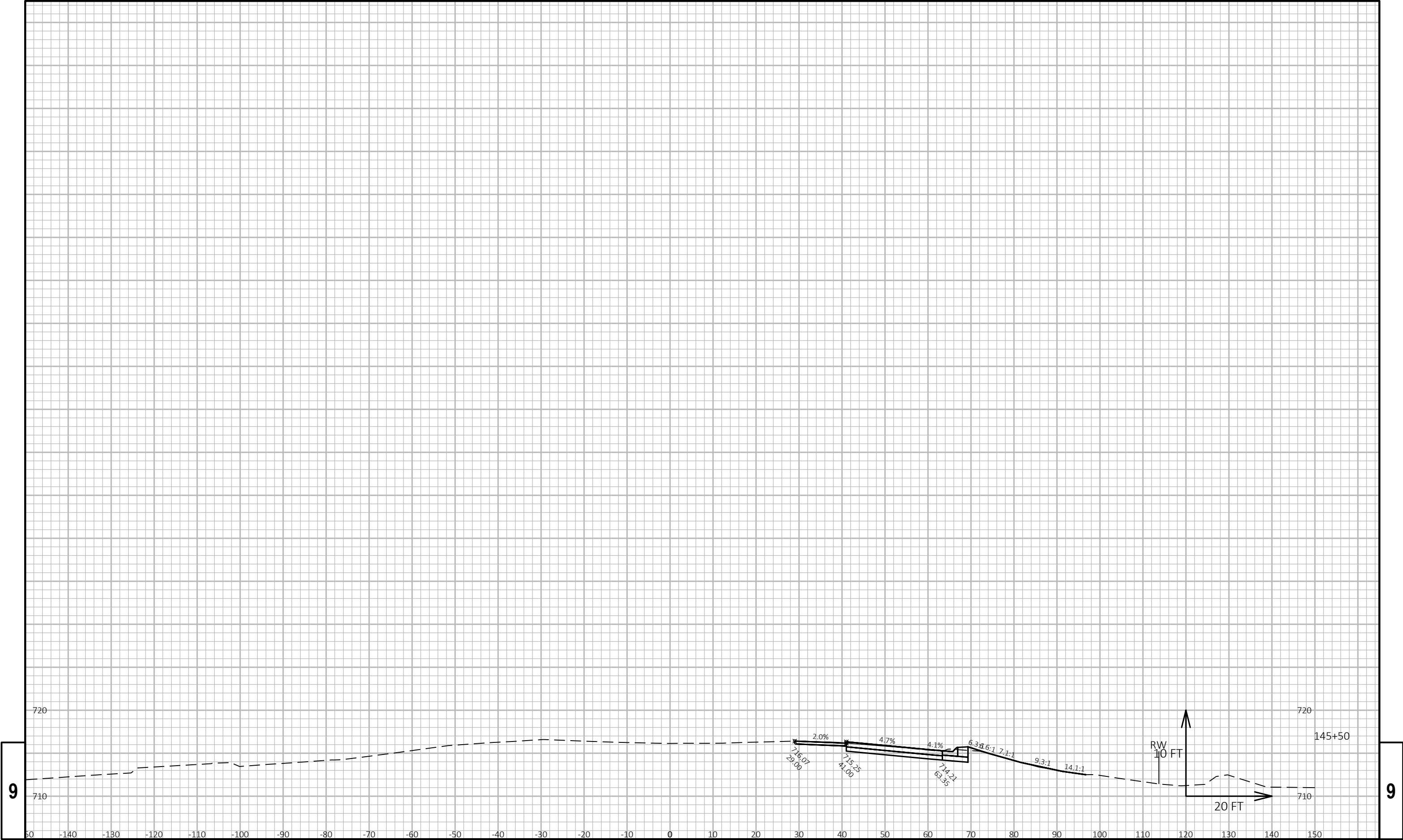






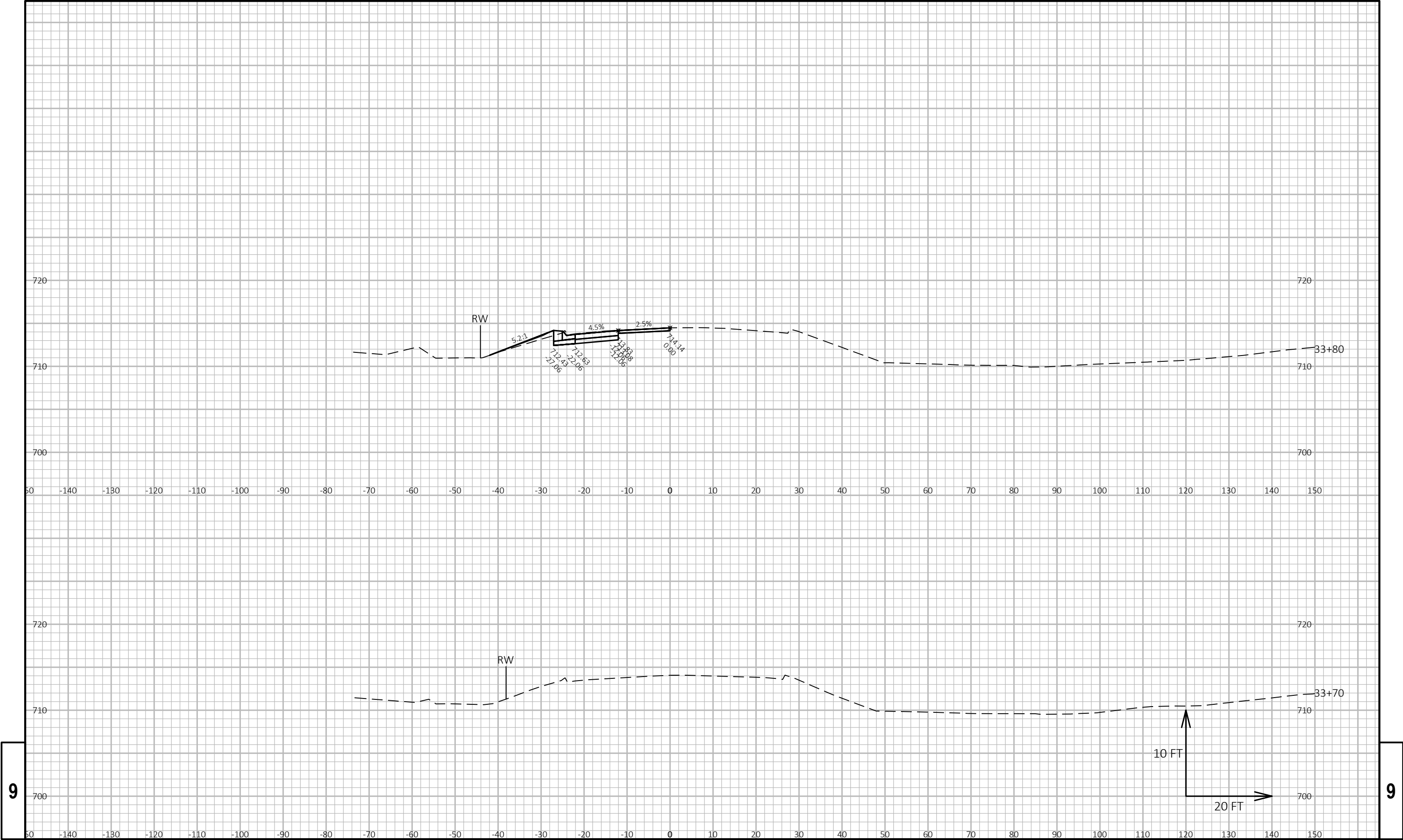
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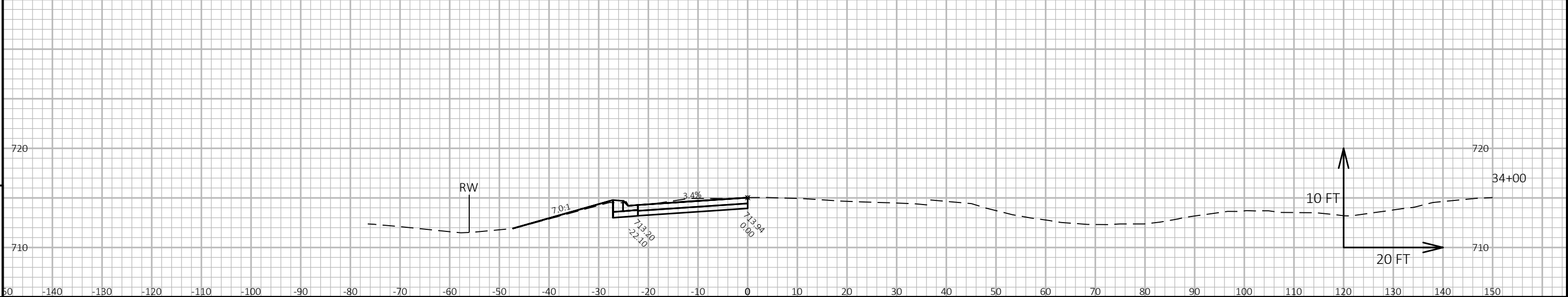
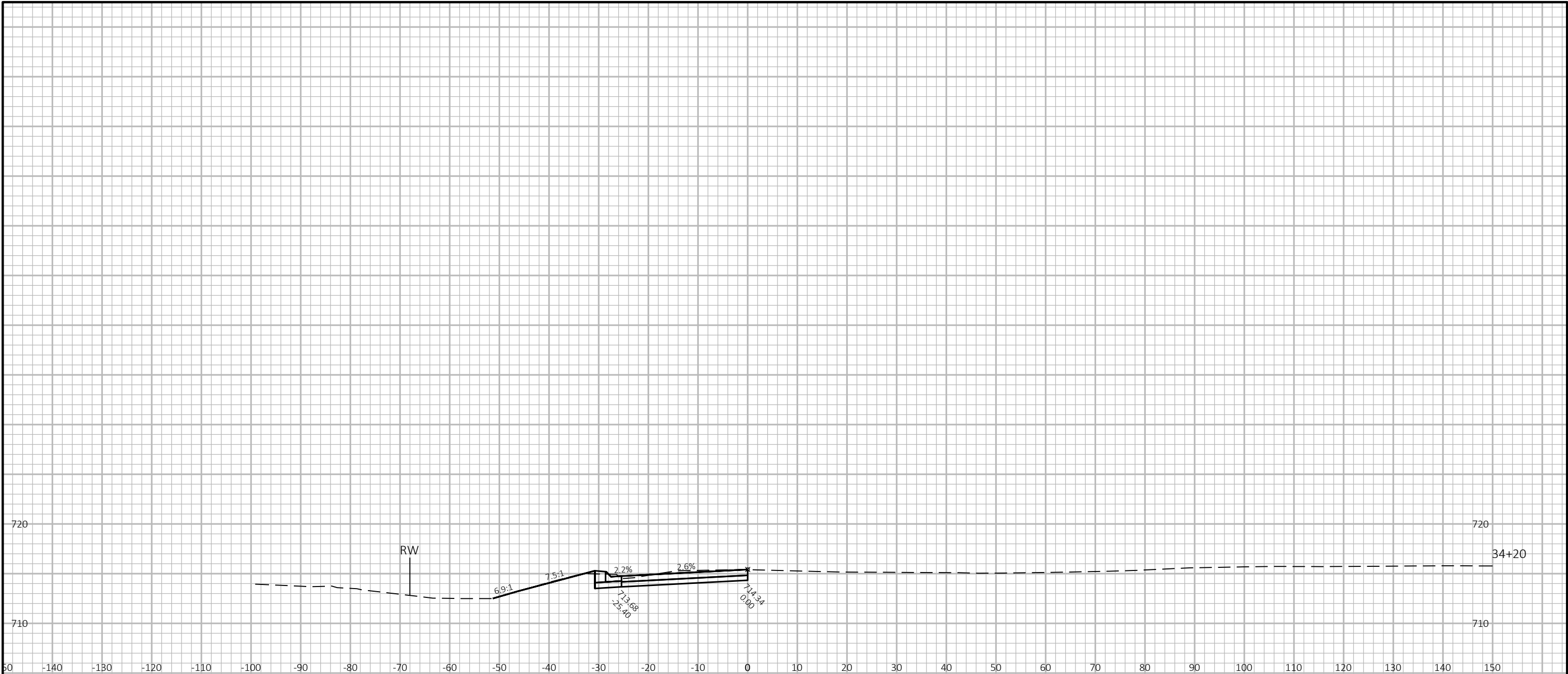
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EPlans Preliminary Sheet Numbering Tool

This sheet: ftp://ftp.dot.state.wi.us/transp/roads/eplans/prelim_sheet_numbers.pdf

Notes

- Acrobat 5 or higher is required to use this tool.
- The Bureau of Highway Construction places sheet numbers in the final plan.
- This sheet is for placing preliminary sheet numbers with a "PRE_" prefix.
- If a plan contains multiple projects, number each plan individually.
- Leave this sheet in the plan.

TO ADD PRELIMINARY SHEET NUMBERS

- 1. Insert this sheet at the end of the plan**
 - a. With the plan open in Acrobat, select Document > Insert Pages.
 - b. In the Select File to Insert dialog box, select this file (prelim_sheet_numbers.pdf)
 - c. In the Insert dialog box, choose After for Location and Last page for Page.
 - d. Click OK.
- 2. Click the Place Preliminary Sheet Numbers button**
 - a. Go to the last sheet of the plan.
 - b. Click the Place Preliminary Sheet Numbers button once.
(The preliminary sheet number appears in the bottom right corner of the sheets.
The number should match te page number in the Acrobat Status bar).
- 3. Re-Save the PDF**
 - a. Select File > Save As and save the PDF.



TO REMOVE PRELIMINARY SHEET NUMBERS

