

PROJECT ID:
WITH: 2290-24-70

COUNTY:
RACINE & MILWAUKEE

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	STA 35+40 TO 265+00	STA 265+00 TO 293+00	STA 293+00 TO 429+00	STA 429+00 TO 477+23
A.A.D.T. 2021	= 5360	= 9660	= 11,430	= 7360
A.A.D.T. 2045	= 6460	= 11,800	= 12,550	= 8680
D.H.V. 2045	= 633	= 1156	= 1230	= 851
D.D.	= 55/45	= 55/45	= 55/45	= 55/45
T.	= 6.8%	= 6.8%	= 6.8%	= 6.8%
DESIGN SPEED	= 55 MPH	= 40 MPH	= 55 MPH	= 45 MPH
ESALS	= N/A	= N/A	= N/A	= N/A

CONVENTIONAL SYMBOLS

PLAN	PROFILE
CORPORATE LIMITS	GRADE LINE
PROPERTY LINE	ORIGINAL GROUND
LOT LINE	MARSH OR ROCK PROFILE (To be noted as such)
LIMITED HIGHWAY EASEMENT	SPECIAL DITCH
EXISTING RIGHT OF WAY	GRADE ELEVATION
PROPOSED OR NEW R/W LINE	CULVERT (Profile View)
SLOPE INTERCEPT	UTILITIES
REFERENCE LINE	ELECTRIC
EXISTING CULVERT	FIBER OPTIC
PROPOSED CULVERT (Box or Pipe)	GAS
COMBUSTIBLE FLUIDS	SANITARY SEWER
	STORM SEWER
	TELEPHONE
MARSH AREA	WATER
	UTILITY PEDESTAL
	POWER POLE
WOODED OR SHRUB AREA	TELEPHONE POLE

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

PLAN OF PROPOSED IMPROVEMENT

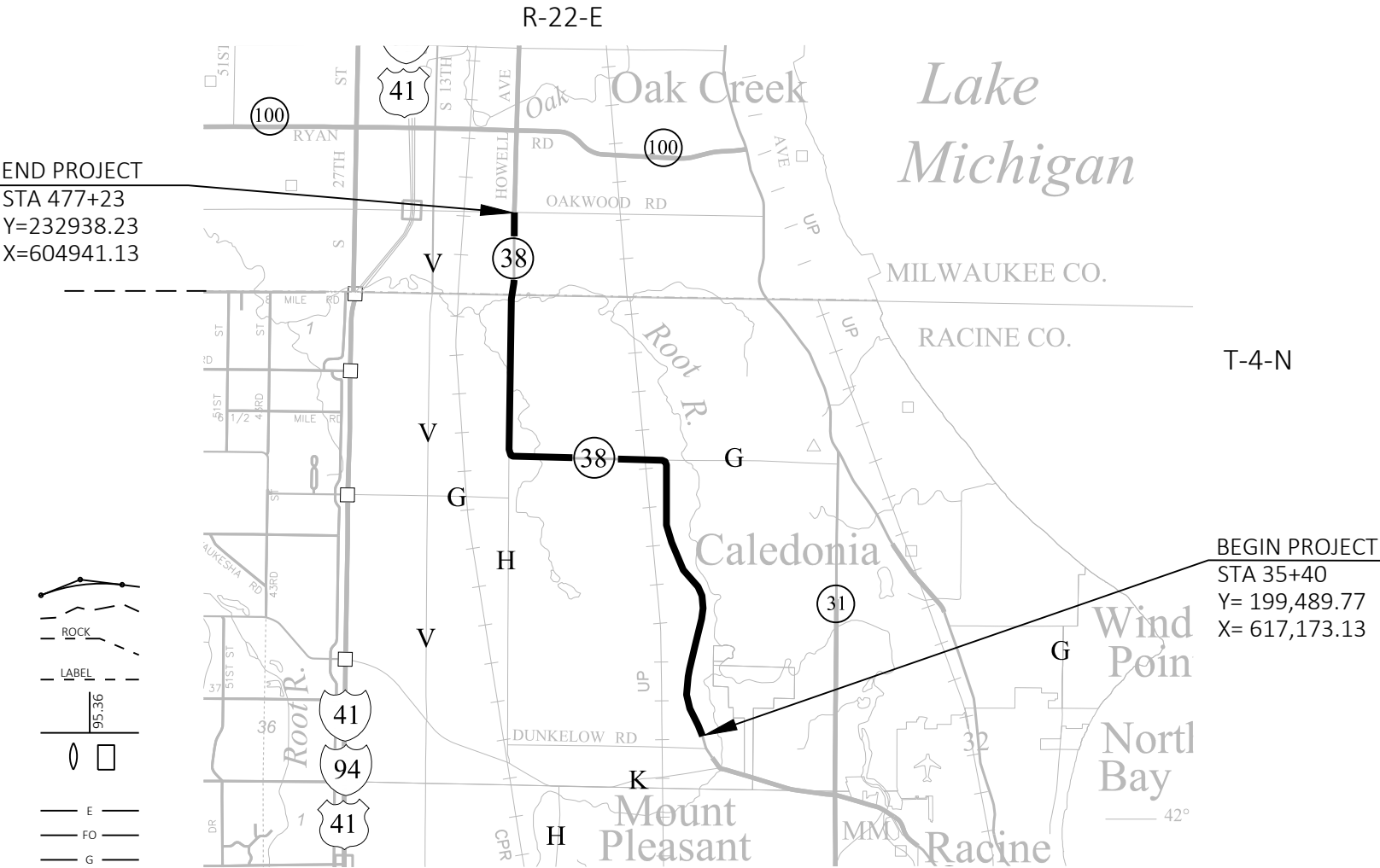
CALEDONIA - OAK CREEK

DUNKELOW RD TO OAKWOOD RD

STH 38

RACINE & MILWAUKEE COUNTY

STATE PROJECT NUMBER
2290-24-70



GENERAL NOTES

MISCELLANEOUS

DETAILS OF CONSTRUCTION NOT SHOWN SHALL BE IN ACCORDANCE WITH THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS.

UNLESS NOTED ON THE PLAN, ALL STATIONS AND OFFSETS ARE BASED OFF OF THE STH 38 REFERENCE LINE.

WITH THE EXCEPTION OF THE RIGHT OF WAY PLAT LOCATIONS, EXISTING RIGHT OF WAY WAS OBTAINED FROM RACINE COUNTY AND MILWAUKEE COUNTY GIS AND SHALL BE CONSIDERED APPROXIMATE.

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

DIMENSIONS GIVEN FOR EXISTING FEATURES SHALL BE CONSIDERED AS APPROXIMATE AND MEASURED IN THE FIELD FOR MATCHING PURPOSES.

THE LOCATION OF EXISTING OR PROPOSED UTILITIES, AS NOTED IN THE PLANS, ARE APPROXIMATE. THERE MAY BE OTHER UTILITY INSTALLATIONS AND SERVICES WITHIN THE PROJECT AREA THAT ARE NOT SHOWN. THE CONSTRUCTOR SHALL NOTIFY DIGGERS HOTLINE AND AFFECTED UTILITIES PRIOR TO THE START OF WORK. ANY LOCAL MUNICIPALITY OR PUBLIC AGENT WHICH IS NOT A MEMBER OF DIGGERS HOTLINE MUST BE CONTACTED SEPARATELY.

A SAWED JOINT IS REQUIRED WHERE NEW PAVEMENT MEETS EXISTING PAVEMENT.

TRAFFIC CONTROL

WHEN TEMPORARY PAVEMENT MARKING REMOVABLE TAPE IS REQUIRED, IT SHALL BE CUT THROUGH ITS FULL WIDTH AND THICKNESS AT 25-FOOT INTERVALS TO CONTROL RAVELING.

SIGN LOCATIONS ARE APPROXIMATE. THE ACTUAL LOCATIONS AND SPACING MAY BE ADJUSTED AS DIRECTED BY THE ENGINEER TO MEET FIELD CONDITIONS.

ALL SIGNS, TEMPORARY OR EXISTING, WHICH CONFLICT WITH TRAFFIC CONTROL "IN USE" SHALL BE COVERED OR REMOVED AS NEEDED AND/OR AS DIRECTED BY THE ENGINEER. NO "WORKING" LIGHTS SHALL BE VISIBLE ON A COVERED OR LAID DOWN SIGN.

ALL EXISTING CONFLICTING PAVEMENT MARKING SHALL BE REMOVED.

A FLAGGER MAY BE REQUIRED WHERE CONSTRUCTION VEHICLES ENTER OR LEAVE "WORK/CLOSED" AREAS IF WARRANTED BY CONDITIONS AND/OR AS DIRECTED BY THE ENGINEER.

EROSION CONTROL

ALL DISTURBED AREAS WITHIN THE RIGHT OF WAY THAT ARE NOT THE RESULT OF CONTRACT ITEMS SHALL BE RESTORED, SEEDED, FERTILIZED, AND MULCHED AT THE CONTRACTOR'S EXPENSE.

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

RESTORE AREAS, AS DESIGNATED BY THE ENGINEER, IMMEDIATELY AFTER GRADING IS COMPLETED WITHIN THOSE AREAS. SEED, FERTILIZE, AND MULCH/EROSION MAT TOPSOILED AREAS, AS DESIGNATED BY THE ENGINEER, WITHIN FIVE (5) CALENDAR DAYS AFTER PLACEMENT OF TOPSOIL. IF GRADED AREAS ARE LEFT EXPOSED FOR MORE THAN FOURTEEN (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 MATERIAL SHALL BE PROTECTED AGAINST EROSION. IF STOCKPILED MATERIAL IS LEFT FOR MORE THAN FOURTEEN (14) CALENDAR DAYS, APPLY TEMPORARY SEED AND MULCH TO THE STOCKPILE.

WHEN PERFORMING ROADWAY CLEANING OPERATIONS, THE CONTRACTOR SHALL USE EQUIPMENT HAVING VACUUM OR WATER SPRAY MECHANISMS TO ELIMINATE THE DISPERSION OF DUST. IF VACUUM EQUIPMENT IS EMPLOYED, IT SHALL HAVE SUITABLE SELF-PARTICULATE COLLECTORS TO PREVENT DISCHARGE FROM THE COLLECTION BIN TO THE ATMOSPHERE.

SEE PROJECT SPECIAL PROVISIONS FOR ADDITIONAL EROSION CONTROL REQUIREMENTS TO BE FOLLOWED

HMA PAVEMENT

HMA PAVEMENT QUANTITIES WERE CALCULATED USING 118 LBS/SY-IN

STANDARD ABBREVIATIONS

AGG	AGGREGATE
ASPH	ASPHALT
CE	COMMERCIAL ENTRANCE
CONC	CONCRETE
PE	PRIVATE ENTRANCE
FE	FIELD ENTRANCE

ORDER OF SECTION 2 DETAIL SHEETS

- GENERAL NOTES & CONTACTS
- PROJECT OVERVIEW
- TYPICAL SECTIONS
- CONSTRUCTION DETAILS
- CURB RAMP DETAILS
- PLAN DETAILS
- EROSION CONTROL
- PERMANENT SIGNING
- TRAFFIC SIGNALS
- PAVEMENT MARKING
- TRAFFIC CONTROL
- ALIGNMENT DETAILS
- SURVEY CONTROL

CONSTRUCT HMA PAVEMENT WITH THE FOLLOWING LAYERS:

PAVEMENT LOCATIONS (SEE TYPICAL SECTIONS FOR EXACT STATIONS)	ASPHALTIC SURFACE MILLING DEPTH	TOTAL PAVEMENT THICKNESS	TYPE
DUNKELOW ROAD TO OAKWOOD ROAD	2"	2" UPPER	4 LT 58-28 S

UTILITIES AND CONTACTS

KENNETH COLWELL
AT&T LEGACY
222 W JACKSON
WOODSTOCK, IL 60098
(312) 734-2223
kc1298@att.com

DALE DEFEVER
AT&T LOCAL NETWORK
39869 LINN ST
CANTON, MI 48147
(586) 242-2671
dd2579@att.com

MIKE VANBOVEN
AT&T WISCONSIN
411 7TH STREET
RACINE, WI 53403
(262) 676-3958
my3658@att.com

TONY MARCINIAK
ATC MANAGEMENT INC.
W234 N2000 RIDGEVIEW PARKWAY CT
PO BOX 47
WAUKESHA, WI 53187-0047
(262) 506-6814
amarciniak@atcllc.com

TONY BUNKELMEN
CALEDONIA STORM SEWER UTILITY COMMISSION
SANITARY & STORM SEWER
333 4 1/2 MILE ROAD
RACINE, WI 53402
(262) 898-2600
abunkelman@caledoniawi.com

GENERAL MAILBOX CENTURYLINK NATIONAL OSP RELOC
CENTURY COMMUNICATIONS, LLC
CenturylinkNationalOSPRelocation@centurylink.com

BEUA ABUYA
CHARTER COMMUNICATIONS
1320 N DR MARTIN LUTHER KING JR DR
MILWAUKEE, WI 53212
(414) 908-1343
wis.engineering@charter.com

MATTHEW SULLIVAN
CITY OF OAK CREEK - ROADWAYS & STREET LIGHTING
8640 S HOWELL AVE
OAK CREEK, WI 53154
(414) 768-6534
msullivan@oakcreekwi.org

BRIAN JOHNSTON
OAK CREEK WATER AND SEWER UTILITY -
SANITARY SEWER & WATER
170 W. DREXEL AVE
OAK CREEK, WI 53154
(414) 570-8210
bjohnston@water.oak-creek.wi.us

DAN HILLIARD
SPRINT COMMUNICATIONS CO LP
849 EARL ST
SAINT PAUL, MN 55106
(612) 217-3526
dan.i.hilliard@sprint.com

MICHAEL SWEET
TDS METROCOM LLC
525 JUNCTION RD
MADISON, WI 53717
(608) 664-4539
Michael.Sweet@tdstelecom.com

TONY BUNKELMEN
VILLAGE OF CALEDONIA - WATER
333 4 1/2 MILE ROAD
RACINE, WI 53402
(262) 898-2600
abunkelman@caledoniawi.com

ERIC PEREA
WISCONSIN DOT - STREET LIGHTING
141 NW BARSTOW STREET
WAUKESHA, WI 53188
(262) 574-5422
Eric.Perea@dot.wi.gov

DERRIN WOLFORD
WISCONSIN DOT - TRAFFIC SIGNALS
141 NW BARSTOW STREET
WAKESHA, WI 53188
(262) 521-4409
derrin.wolford@dot.wi.gov

WE ENERGIES UTILITY COORDINATOR
WE ENERGIES - ELECTRICITY & GAS
500 S 116TH STREET
WEST ALLIS, WI 53214
(414) 221-2738
We-Utility-relocations@we-energies.com

SEWRPC CONSTACT

ROB MERRY
W239 N 1812 ROCKWOOD DRIVE
PO BOX 1607
WAUKESHA, WI 53187-1607
(262) 953-4289
sewrp@sewrpc.org

WISDNR CONTACT

BENTON STELZEL
141 NW BARSTOW STREET, ROOM 180
WAUKESHA, WI 53188
(262) 623-0194
benton.stelzel@wisconsin.gov

OTHER CONTACTS

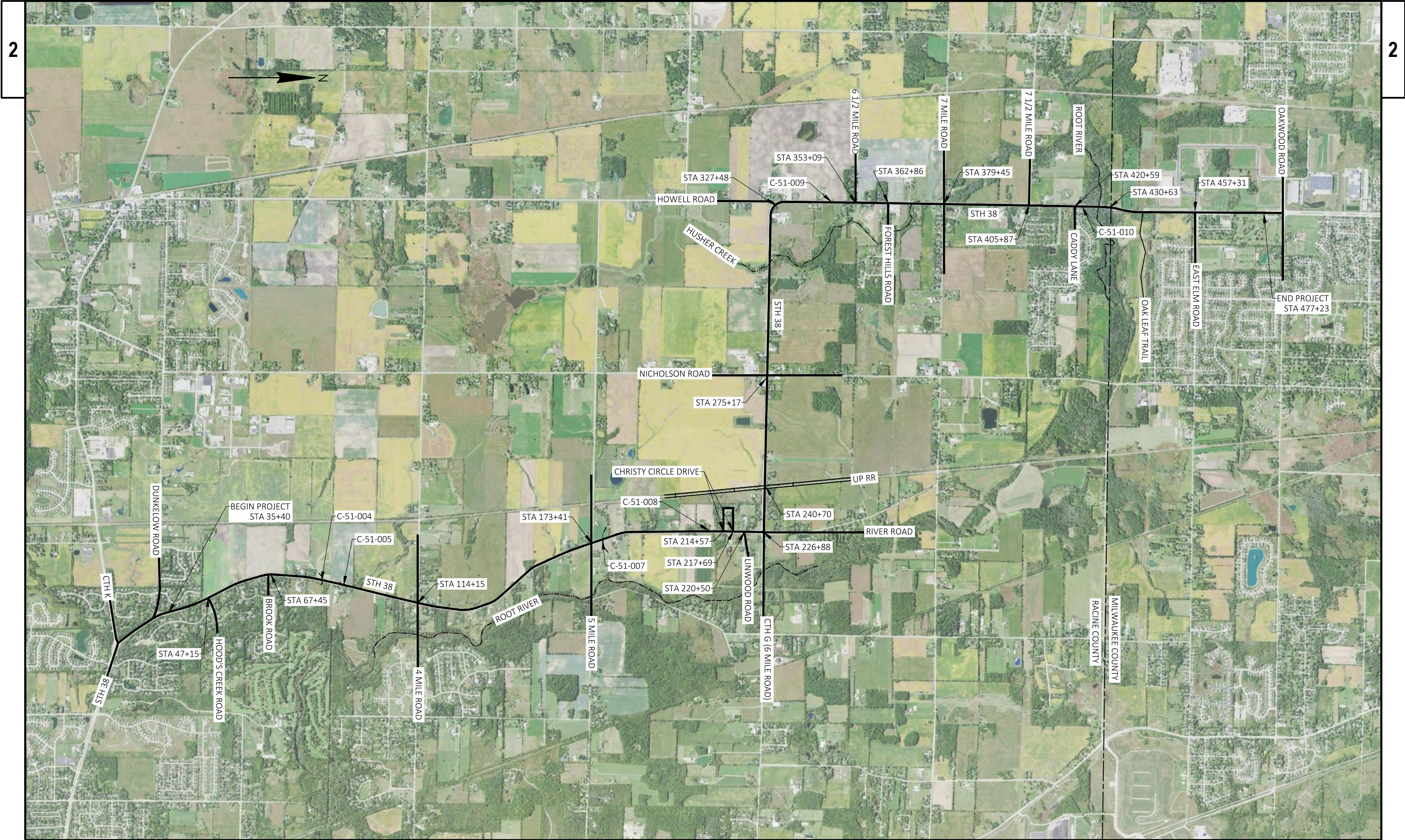
WISDOT SE REGION
VIDA SHAFFER, PE; PROJECT MANAGER
141 NW BARSTOW ST
WAUKESHA, WI 53187
(262) 548-6766
vida.shaffer@dot.wi.gov

DAAR ENGINEERING, INC
ANDY SMIEJA, PE
325 E CHICAGO ST, SUITE 500
MILWAUKEE, WI 53202 (414) 935-4350
andy.smieja@daarcorp.com

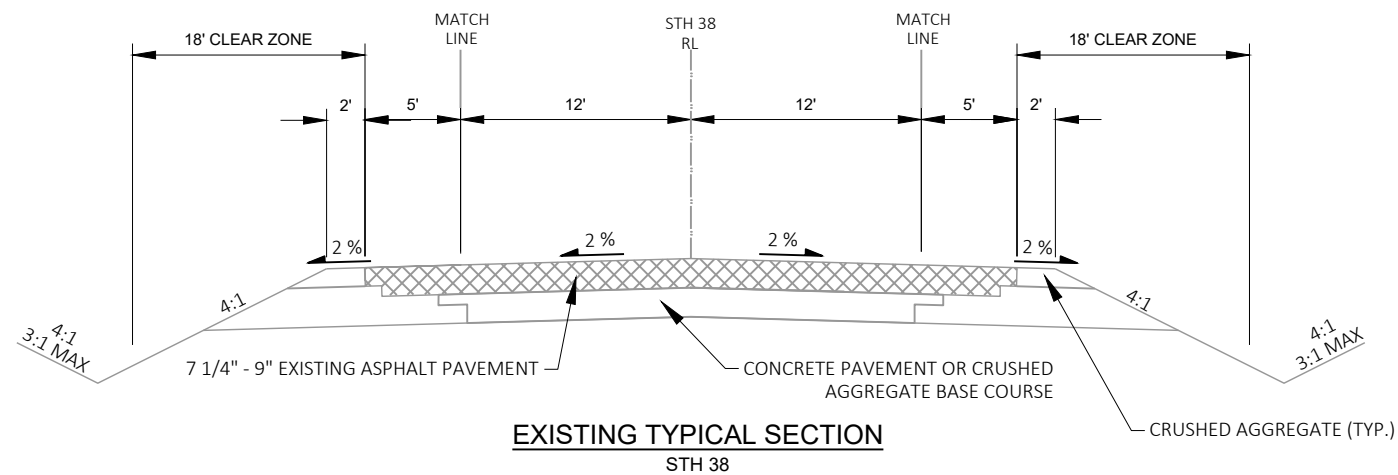
DIGGERSHOTLINE

Dial 811 or (800)242-8511

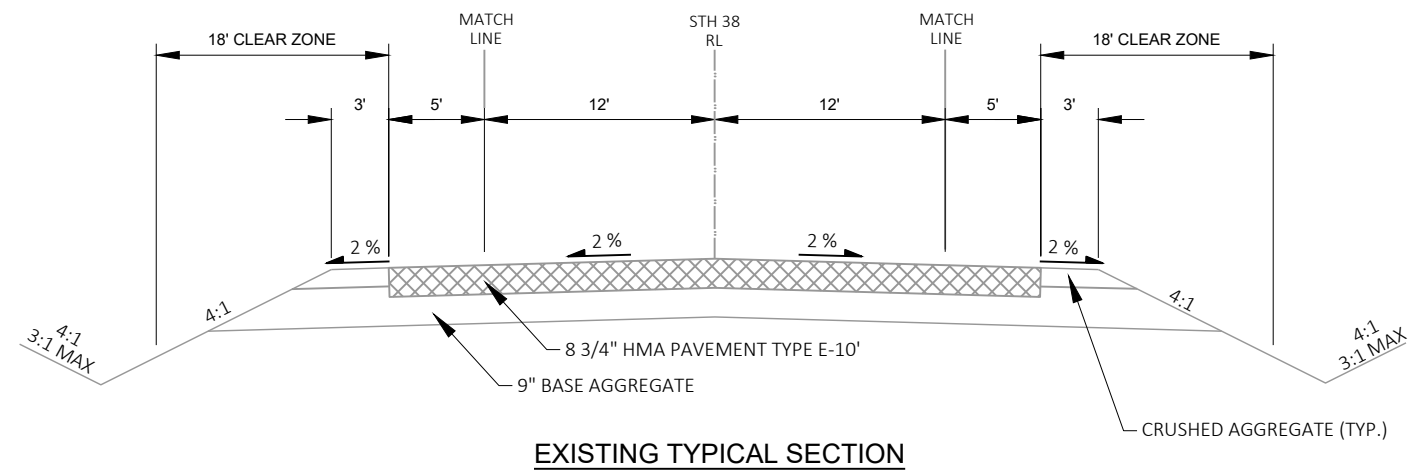
www.DiggersHotline.com



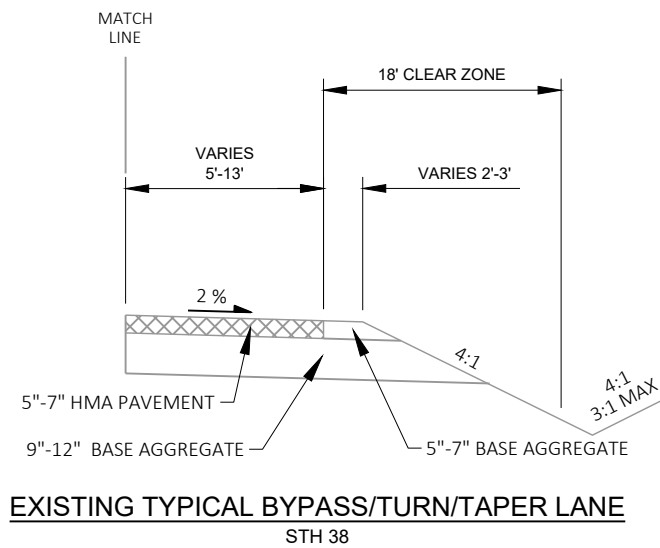
PROJECT NO: 2290-24-70	HWY: STH 38	COUNTY: RACINE & MILWAUKEE	PROJECT OVERVIEW	SHEET	E
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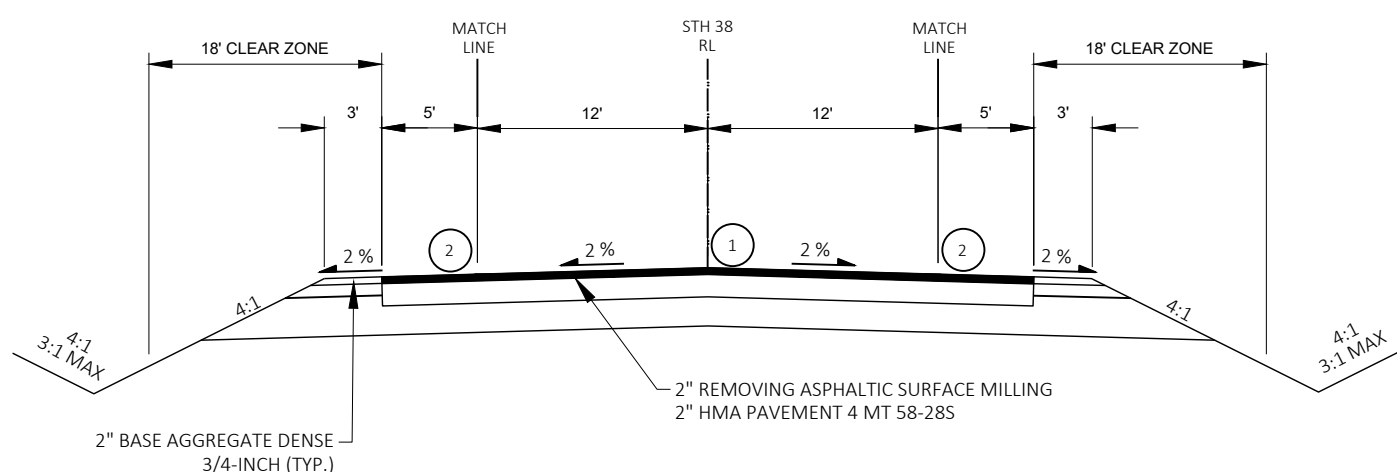
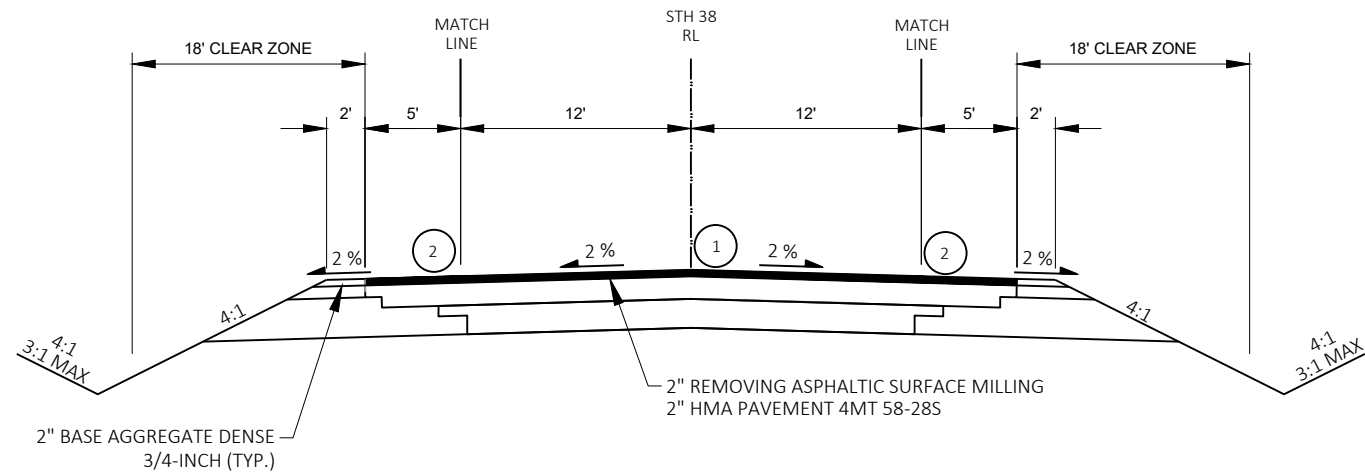
STA 35+40 - STA 108+00
STA 124+00 - STA 220+00
STA 233+13 - STA 307+78
STA 310+78 - STA 320+28
STA 338+28 - STA 369+28
STA 372+28 - STA 477+23



STA 108+00 - STA 124+00
STA 220+00 - STA 233+13
STA 307+78 - STA 310+78
STA 320+28 - STA 338+28
STA 369+28 - STA 372+28



STA 43+52.5 - STA 48+28 RT	STA 213+05 - STA 220+00 RT
STA 45+60 - STA 49+20 LT	STA 213+75 - STA 218+75 LT
STA 63+37.5 - STA 68+75 RT	STA 267+08 - STA 283+18 RT
STA 63+85 - STA 70+55 LT	STA 267+98 - STA 282+58 LT
STA 111+15 - STA 115+85 RT	STA 360+50 - STA 363+98 RT
STA 112+70 - STA 116+55 LT	STA 403+03 - STA 408+88 RT
STA 121+00 - STA 124+00 LT	STA 416+66 - STA 421+46 RT
STA 121+17 - STA 124+00 RT	STA 417+58 - STA 422+92 LT
STA 169+62.5 - STA 174+70 RT	STA 464+33 - STA 470+11 LT
STA 172+10 - STA 177+20 LT	STA 464+99 - STA 468+28 RT



FINISHED TYPICAL SECTION

STH 38

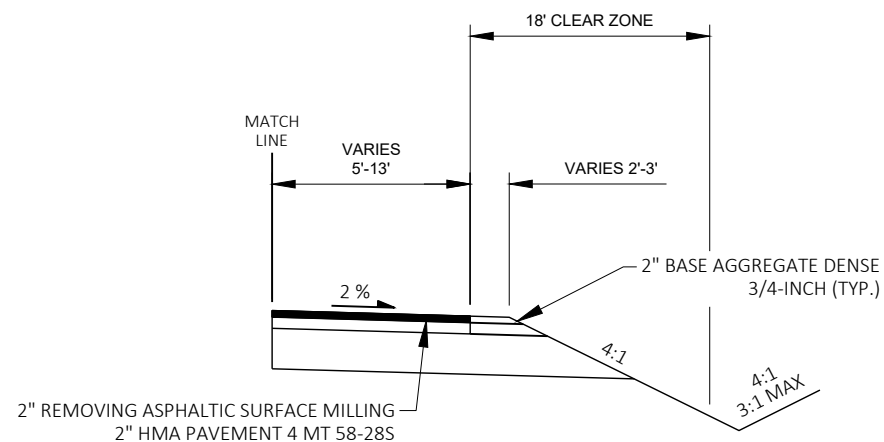
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STA 124+00 - STA 220+00
STA 233+13 - STA 307+78
STA 310+78 - STA 320+28
STA 338+28 - STA 369+28
STA 372+28 - STA 477+23

FINISHED TYPICAL SECTION

STH 38

STA 108+00 - STA 124+00
STA 220+00 - STA 233+13
STA 307+78 - STA 310+78
STA 320+28 - STA 338+28
STA 369+28 - STA 387+03

- 1 ASPHALTIC CENTERLINE RUMBLE STRIPS 2-LANE RURAL
- 2 ASPHALTIC SHOULDER RUMBLE STRIPS 2-LANE RURAL (TYPE 1)



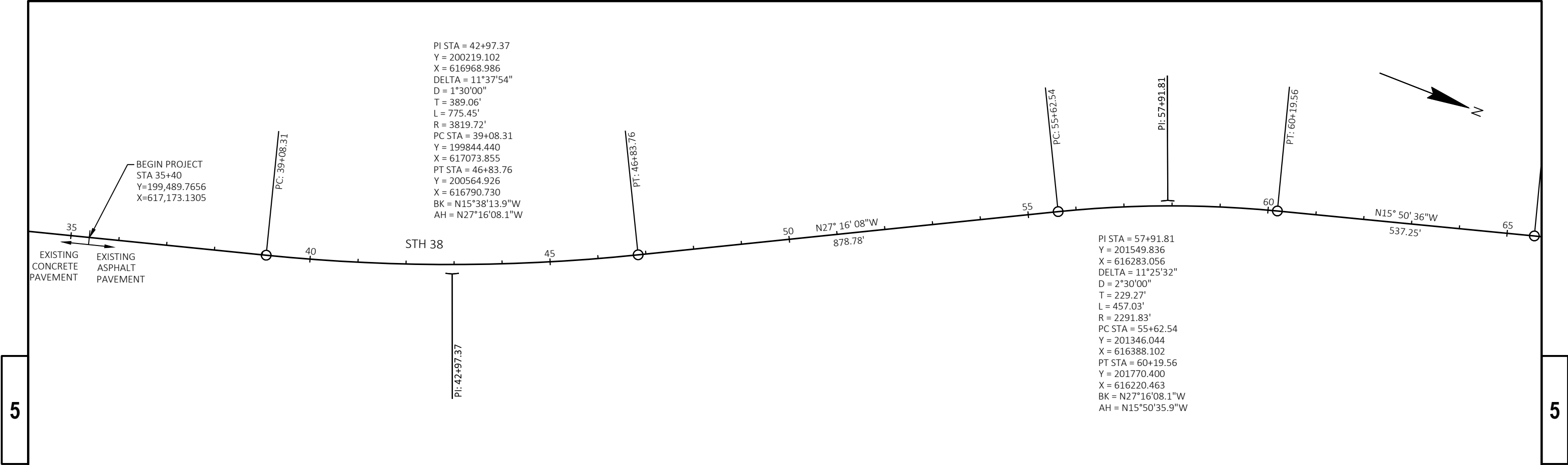
FINISHED TYPICAL BYPASS/TURN/TAPER LANE

STH 38

RT SHOWN, LT IS MIRROR IMAGE

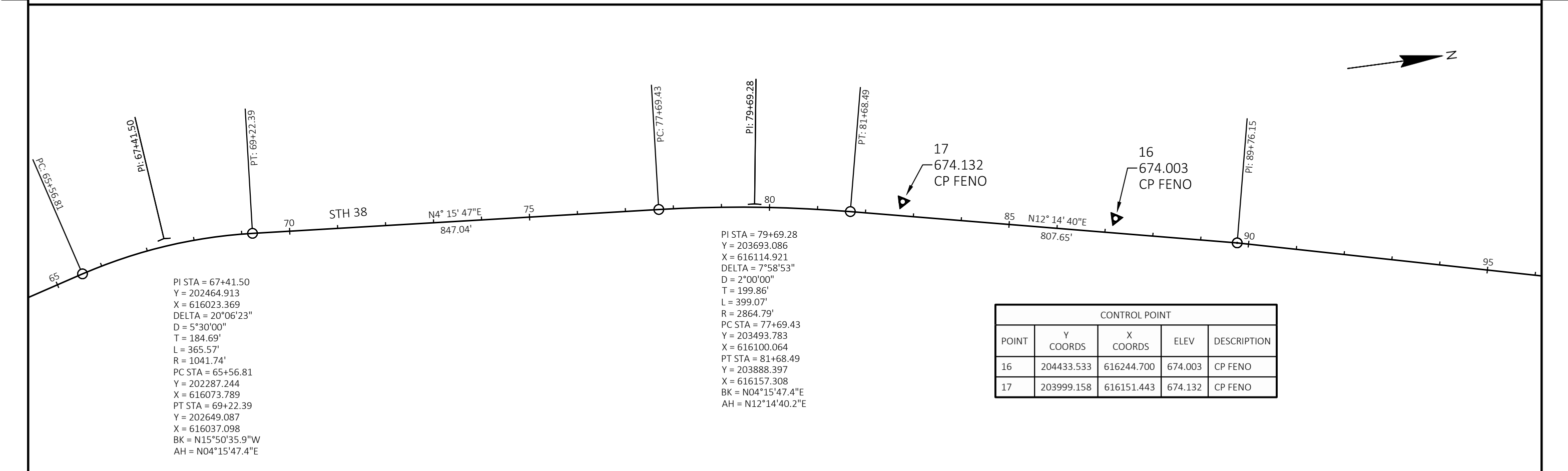
STA 43+52.5 - STA 48+28 RT
STA 45+60 - STA 49+20 LT
STA 63+37.5 - STA 68+75 RT
STA 63+85 - STA 70+55 LT
STA 111+15 - STA 115+85 RT
STA 112+70 - STA 116+55 LT
STA 121+00 - STA 124+00 LT
STA 121+17 - STA 124+00 RT
STA 169+62.5 - STA 174+70 RT
STA 172+10 - STA 177+20 LT

STA 213+05 - STA 220+00 RT
STA 213+75 - STA 218+75 LT
STA 267+08 - STA 283+18 RT
STA 267+98 - STA 282+58 LT
STA 360+50 - STA 363+98 RT
STA 403+03 - STA 408+88 RT
STA 416+66 - STA 421+46 RT
STA 417+58 - STA 422+92 LT
STA 464+33 - STA 470+11 LT
STA 464+99 - STA 468+28 RT



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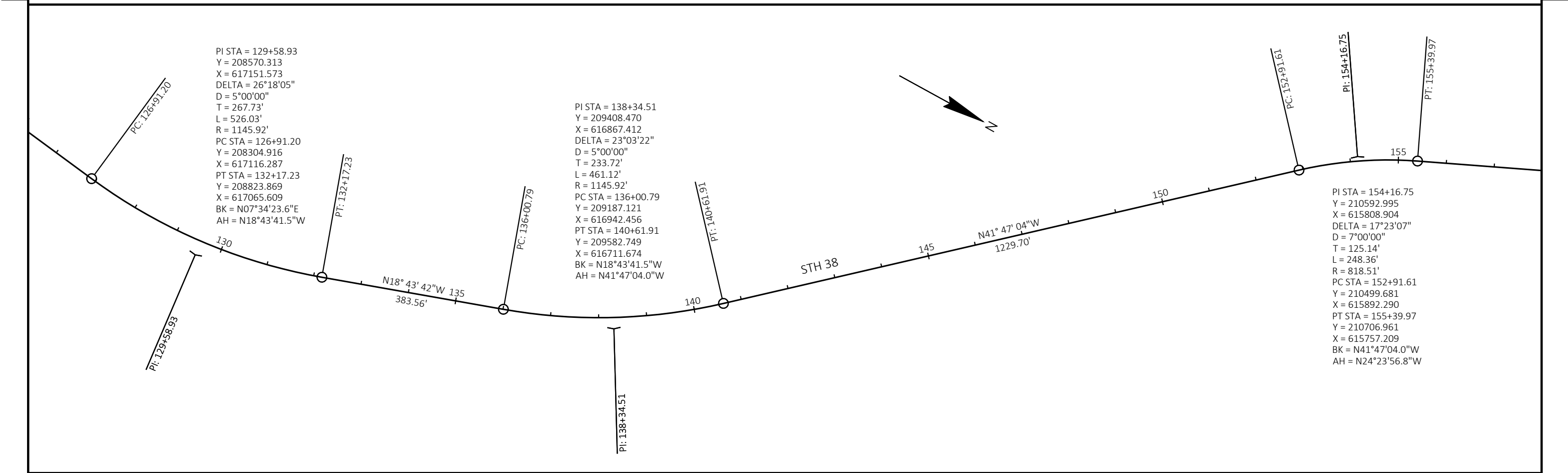
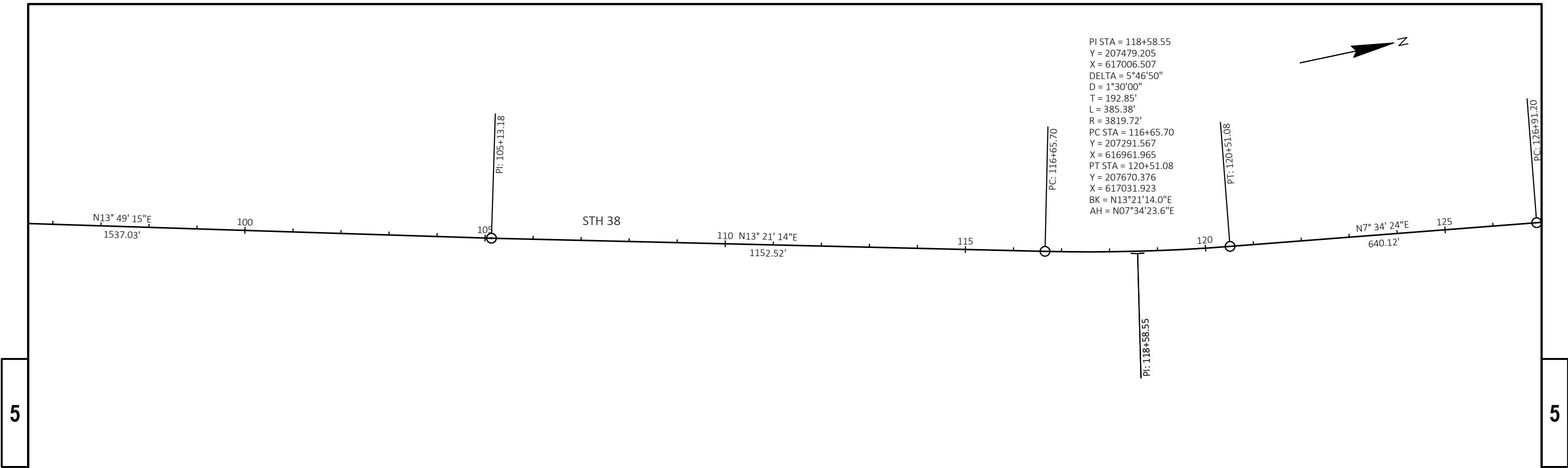
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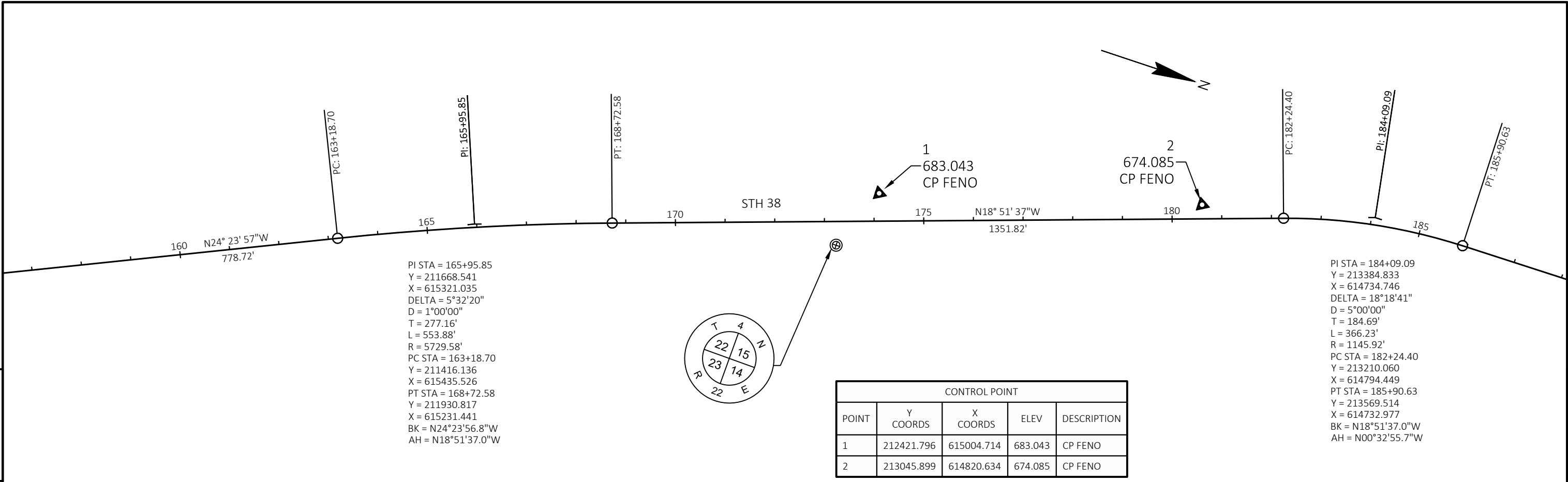
PI STA = 67+41.50
Y = 202464.913
X = 616023.369
DELTA = 20°06'23"
D = 5°30'00"
T = 184.69'
L = 365.57'
R = 1041.74'
PC STA = 65+56.81
Y = 202287.244
X = 616073.789
PT STA = 69+22.39
Y = 202649.087
X = 616037.098
BK = N15°50'35.9"W
AH = N04°15'47.4"E

PI STA = 79+69.28
Y = 203693.086
X = 616114.921
DELTA = 7°58'53"
D = 2°00'00"
T = 199.86'
L = 399.07'
R = 2864.79'
PC STA = 77+69.43
Y = 203493.783
X = 616100.064
PT STA = 81+68.49
Y = 203888.397
X = 616157.308
BK = N04°15'47.4"E
AH = N12°14'40.2"E

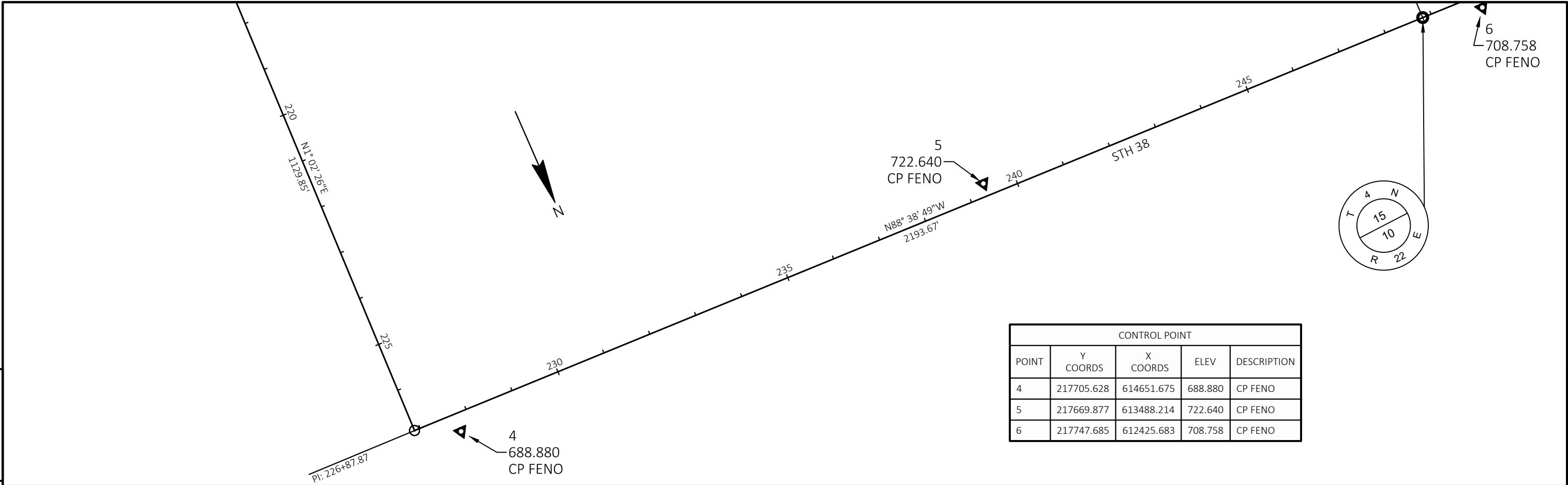
CONTROL POINT				
POINT	Y COORDS	X COORDS	ELEV	DESCRIPTION
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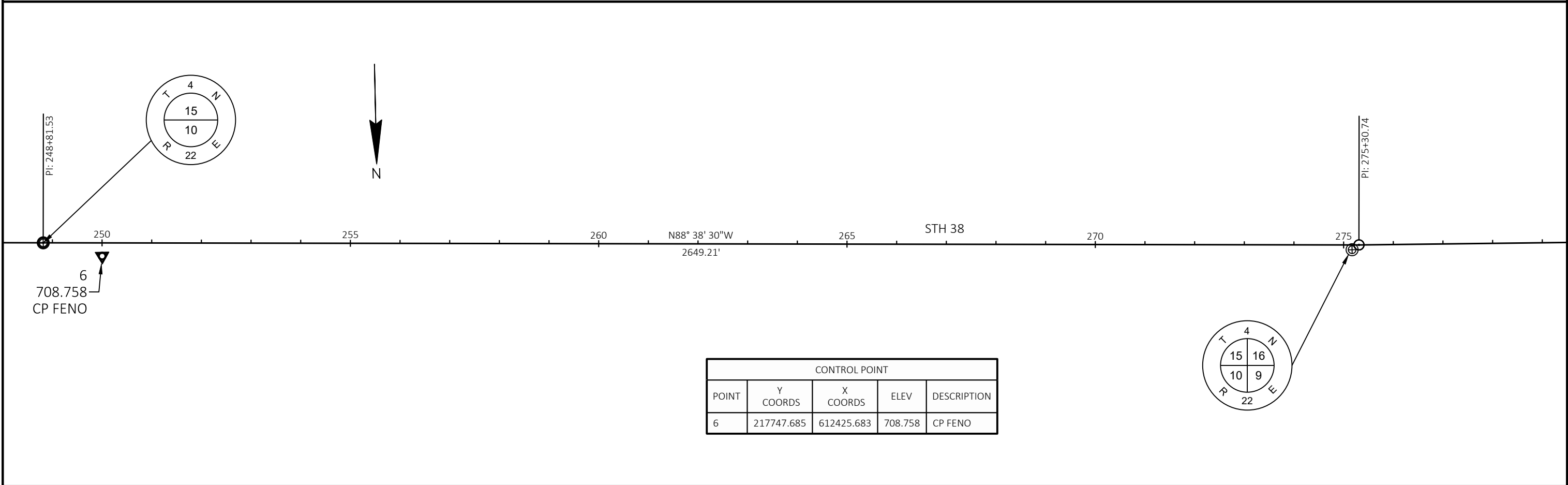
PROJECT NO: 2290-24-70	HWY: STH 38	COUNTY: RACINE & MILWAUKEE	ALIGNMENT PLAN	SHEET	E
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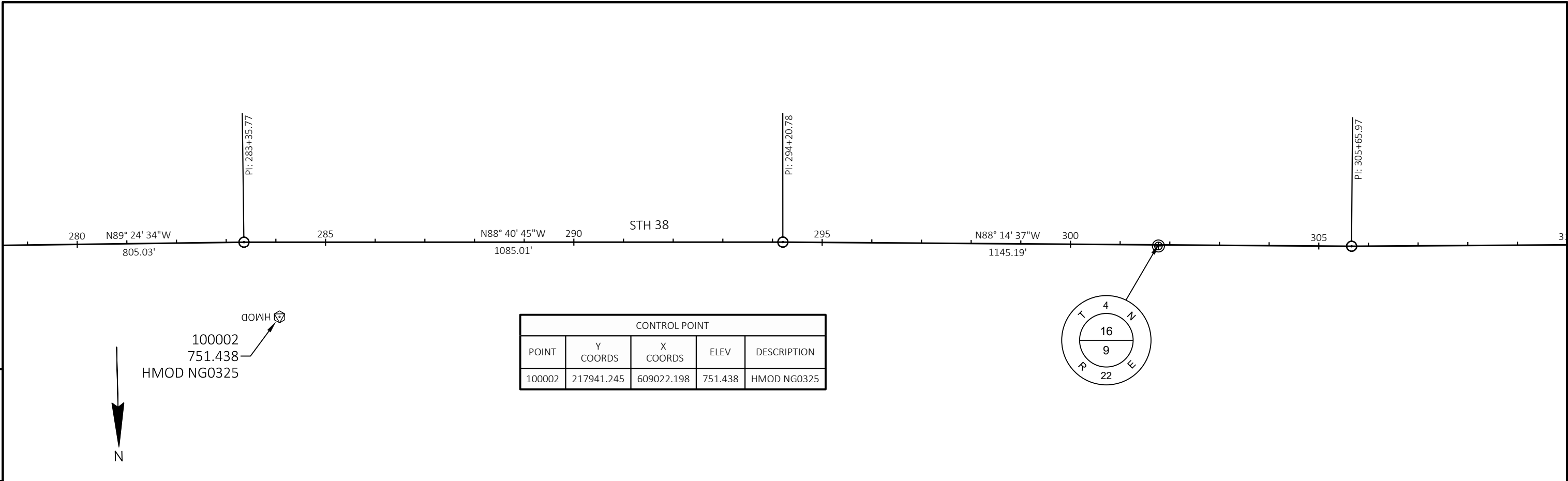
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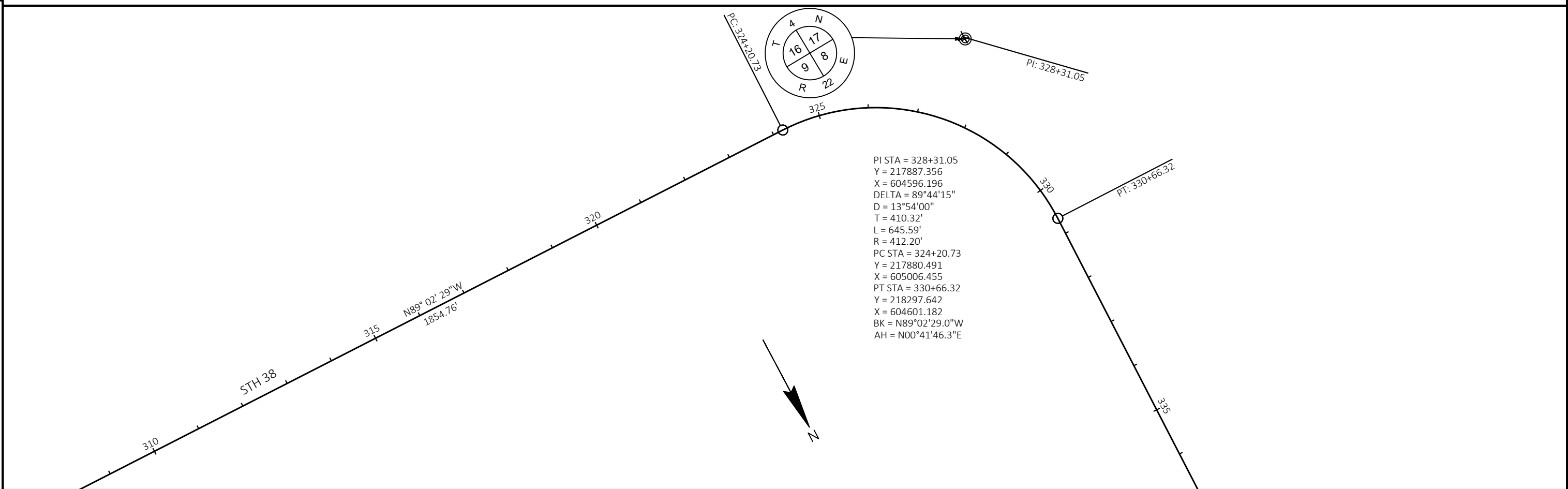
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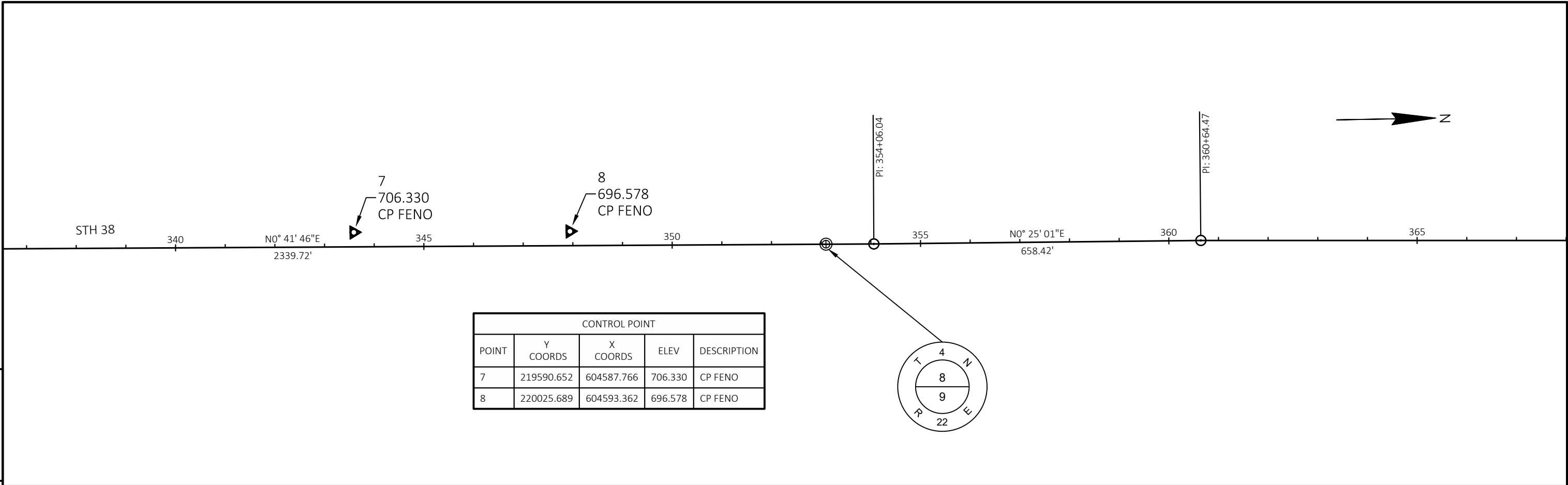
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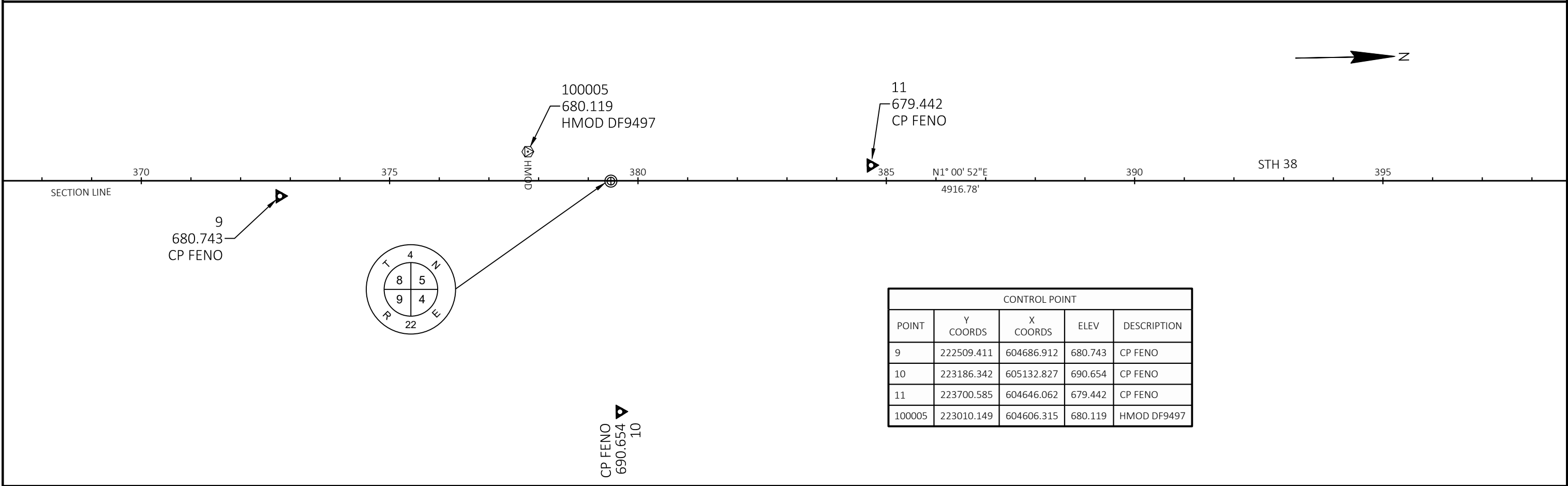
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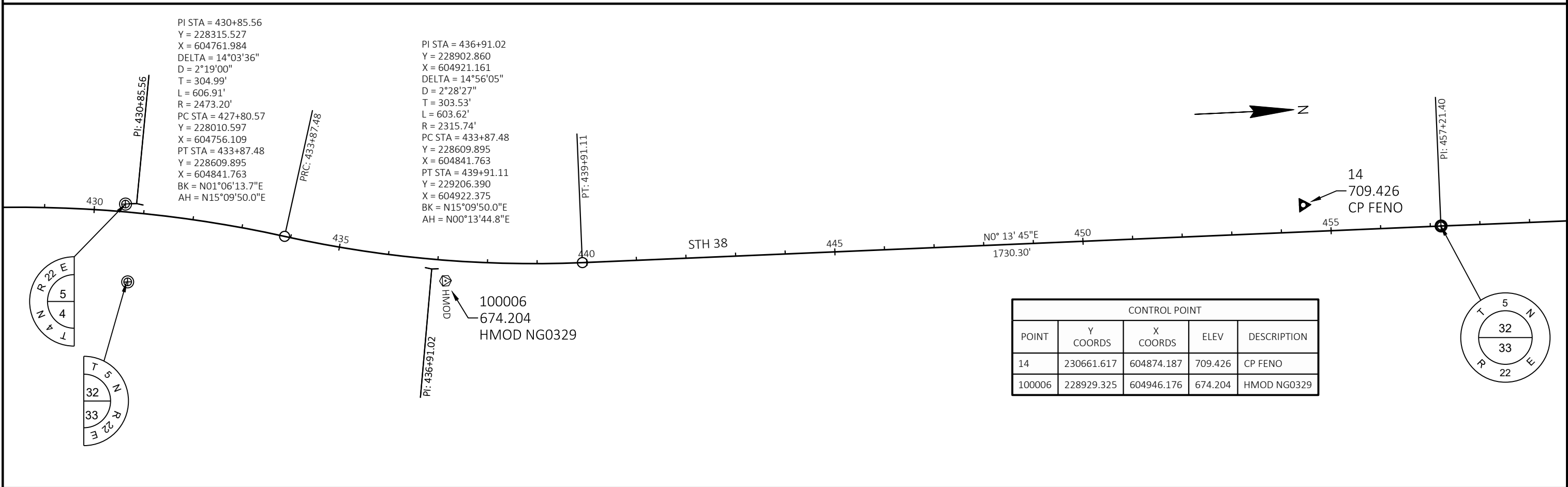
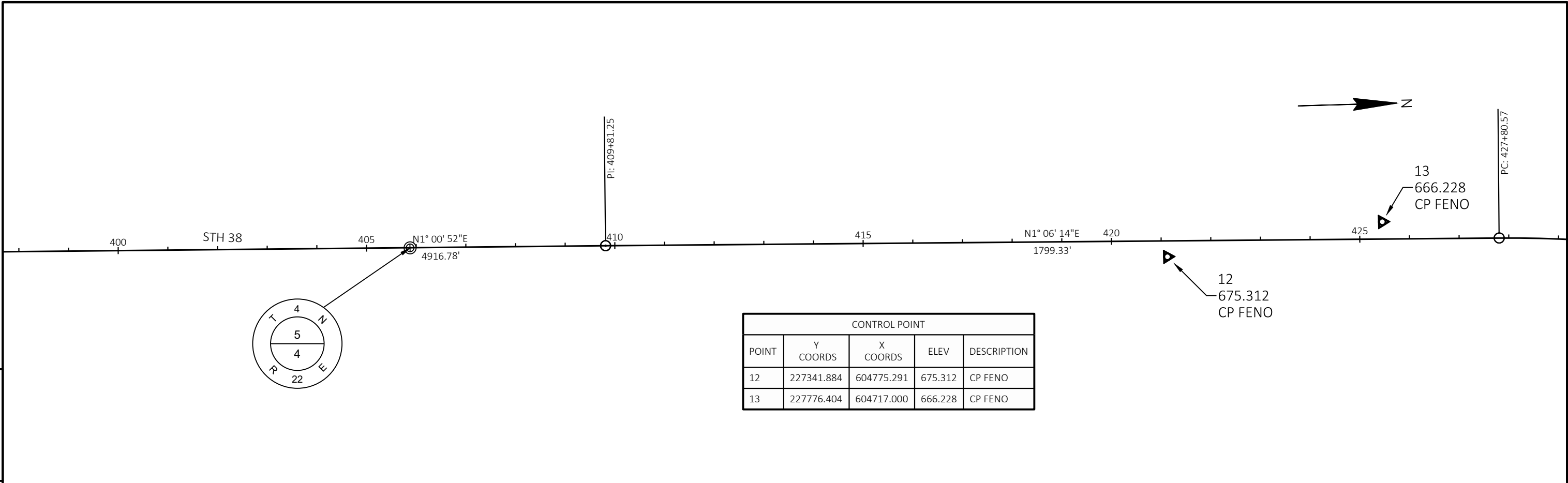


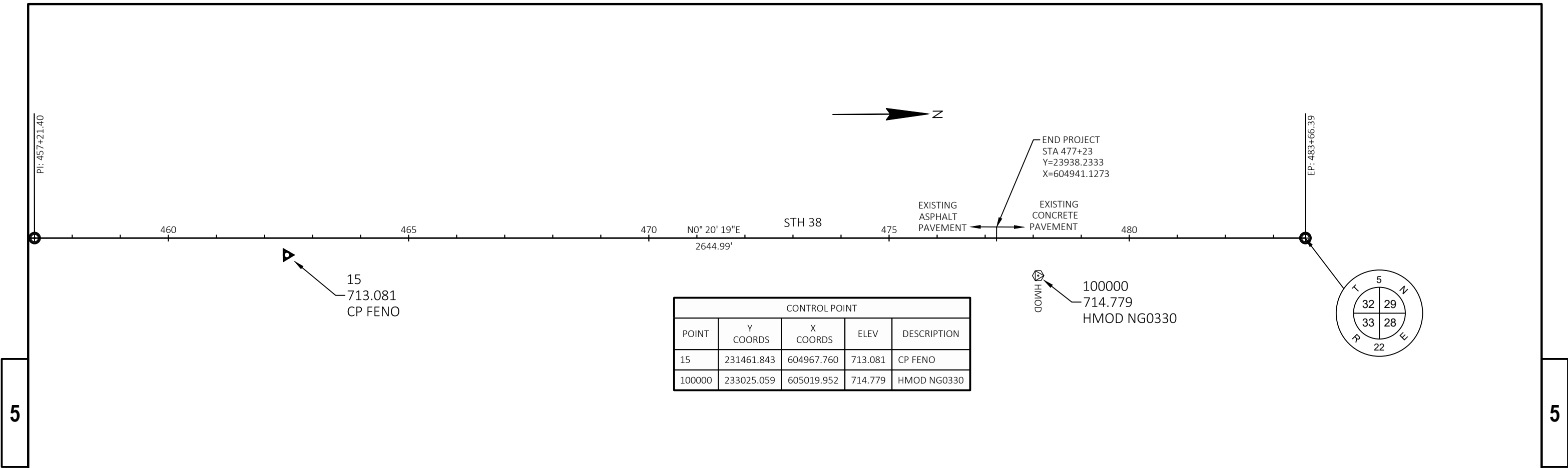
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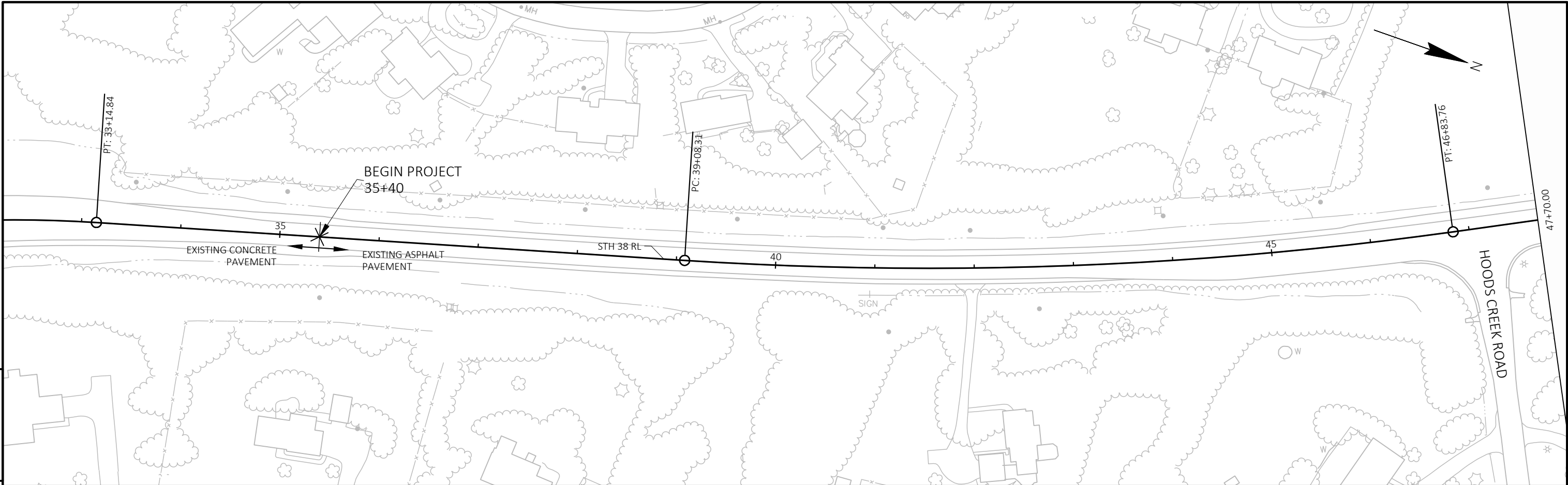


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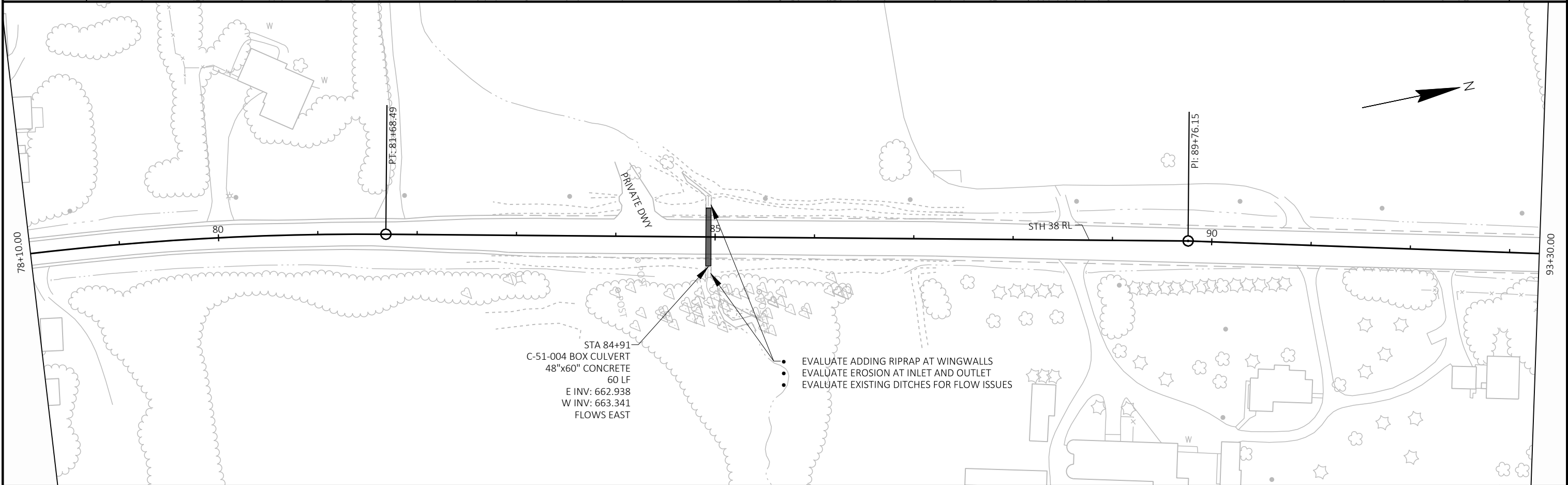








PROJECT NO: 2290-24-70	HWY: STH 38	COUNTY: RACINE & MILWAUKEE	PLAN DETAILS	SHEET	E
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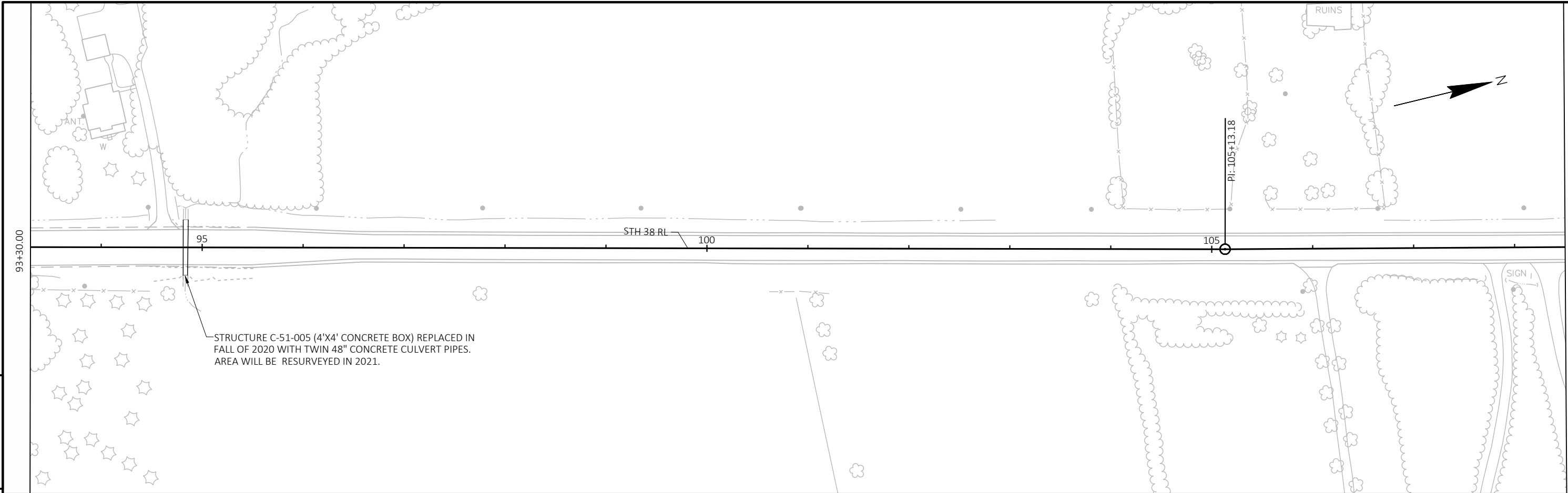


STA 84+91
C-51-004 BOX CULVERT
48"x60" CONCRETE
60 LF
E INV: 662.938
W INV: 663.341
FLOWS EAST

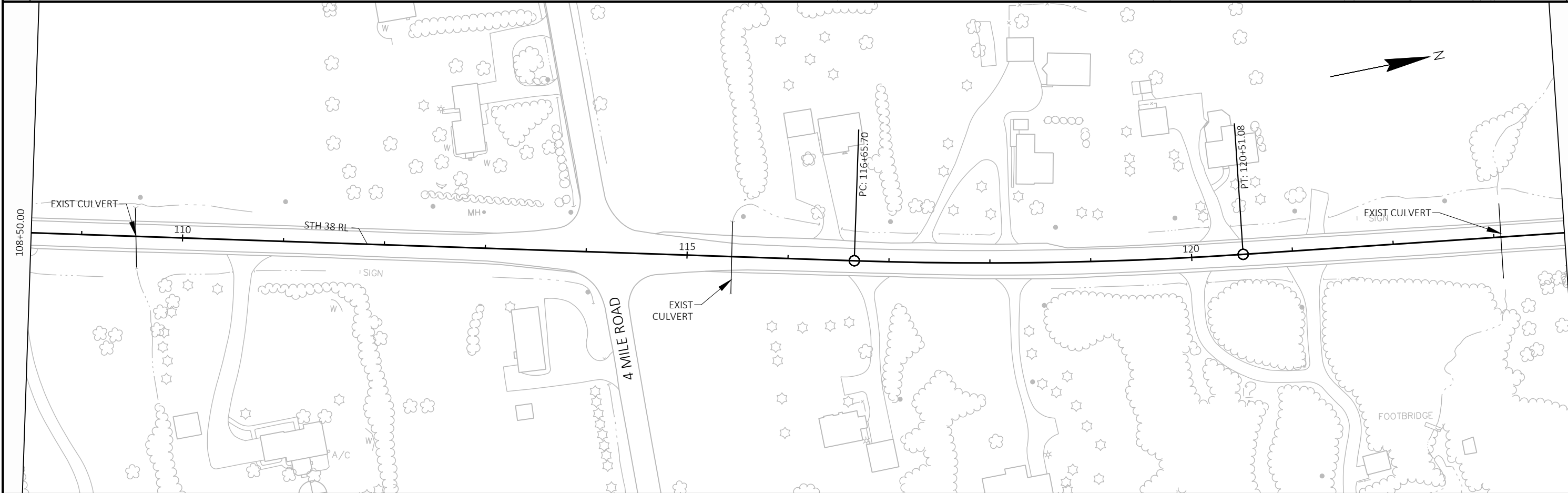
- EVALUATE ADDING RIPRAP AT WINGWALLS
- EVALUATE EROSION AT INLET AND OUTLET
- EVALUATE EXISTING DITCHES FOR FLOW ISSUES

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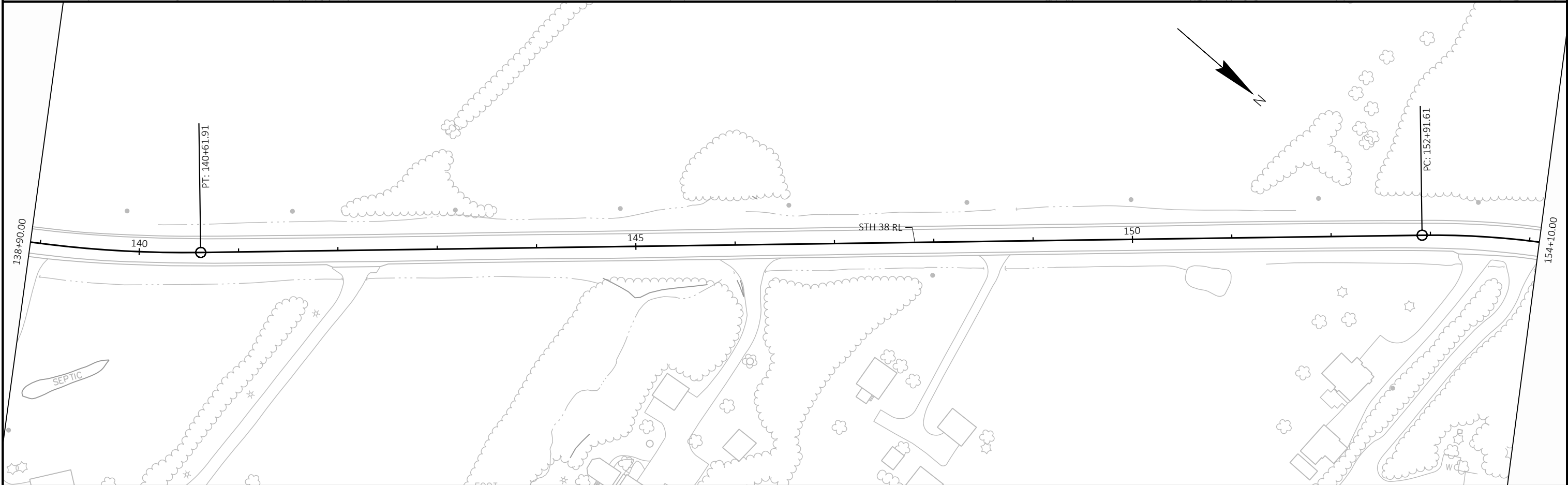
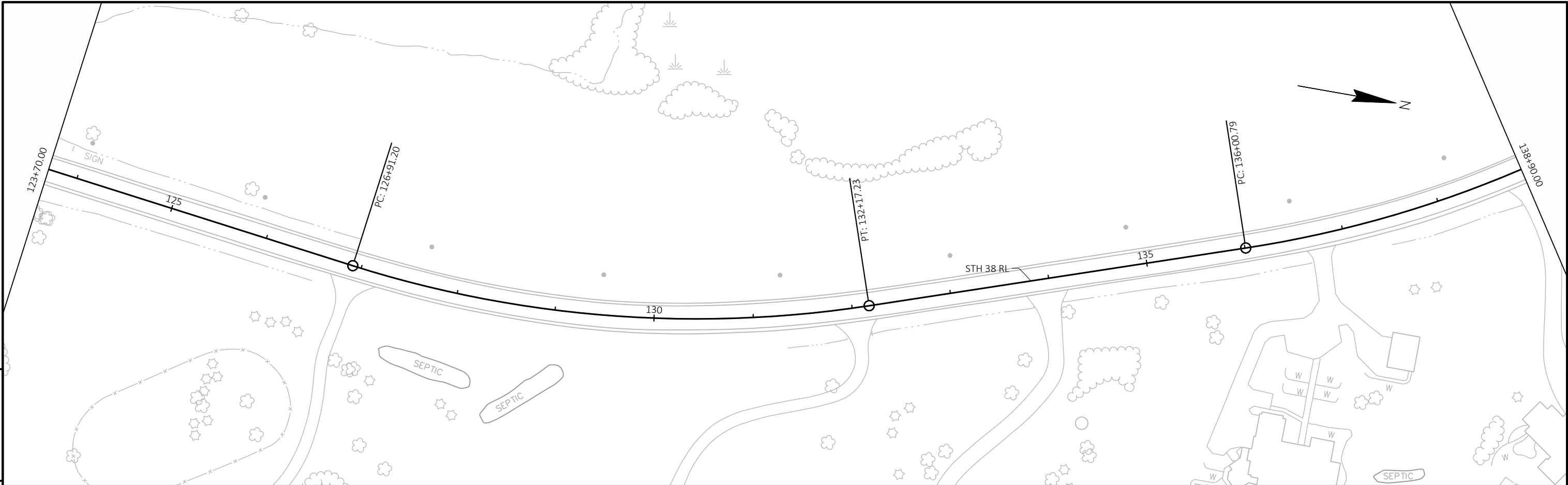
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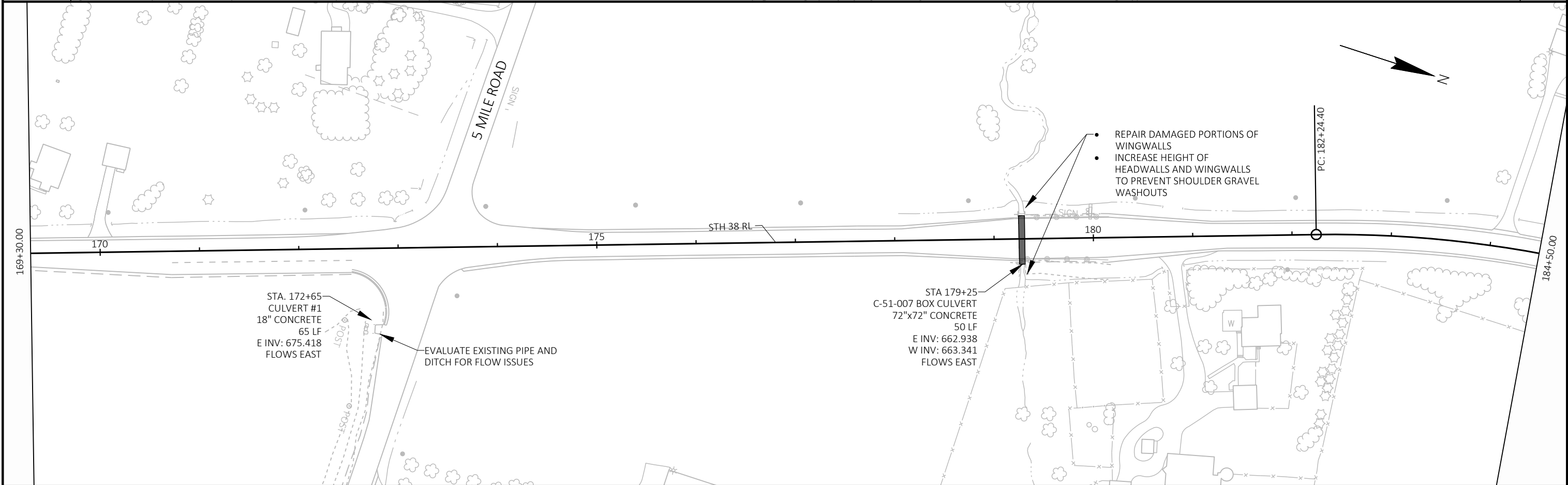
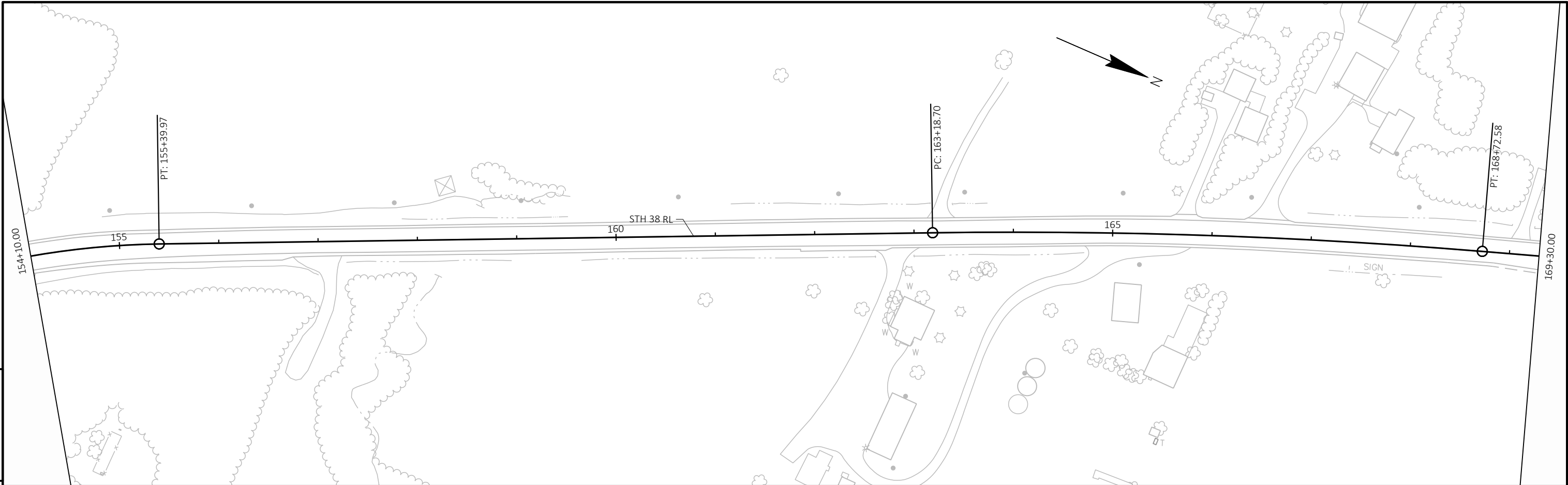
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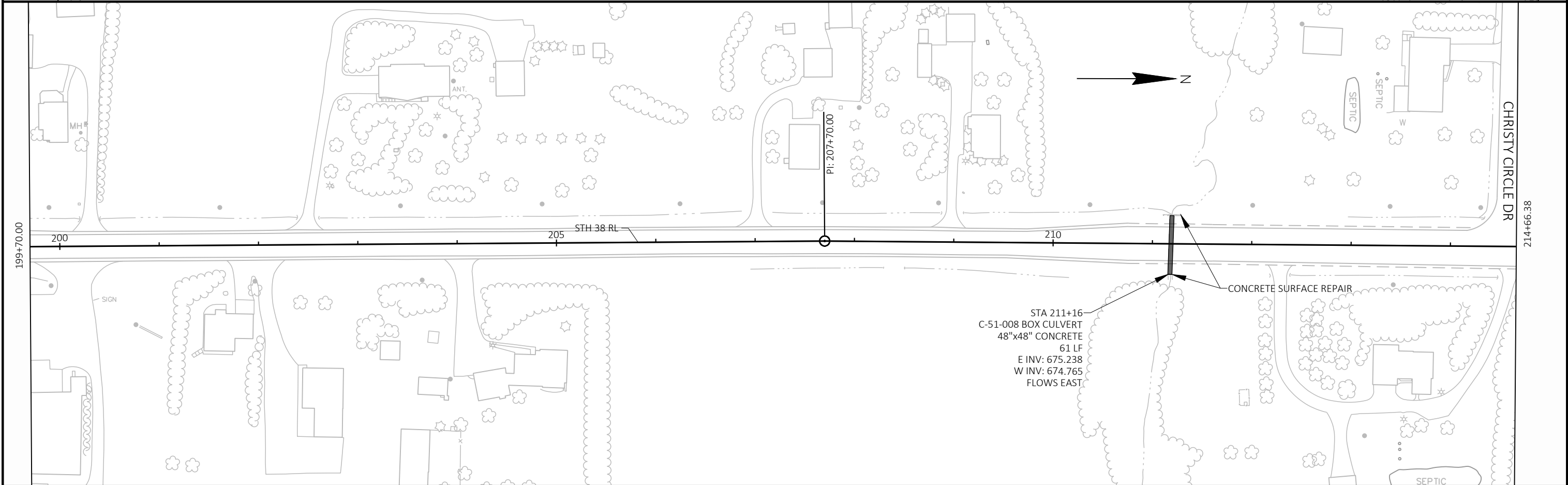
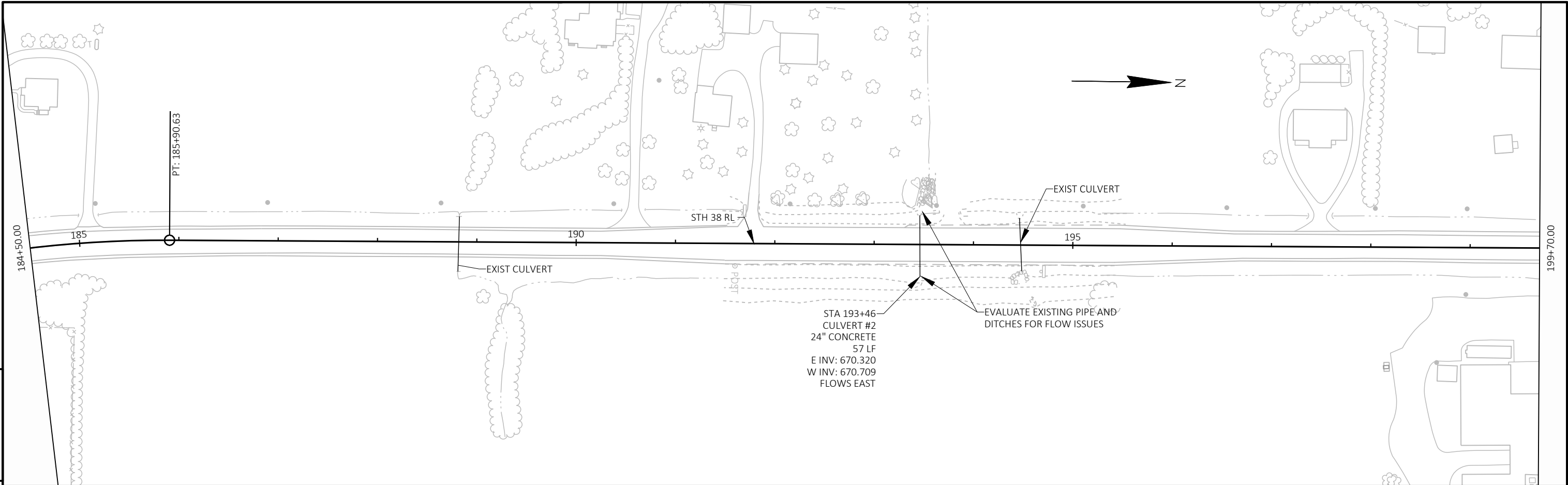
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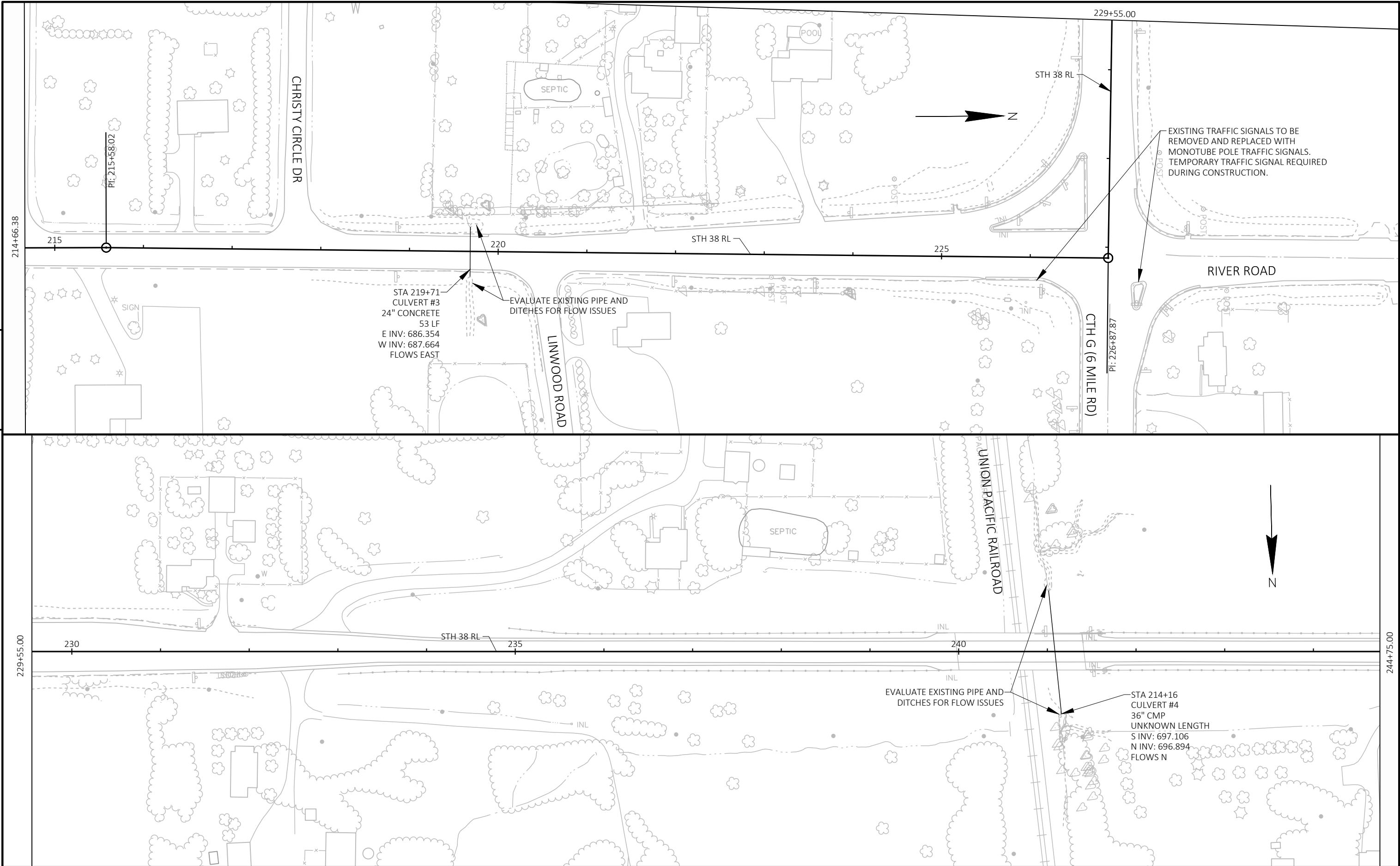
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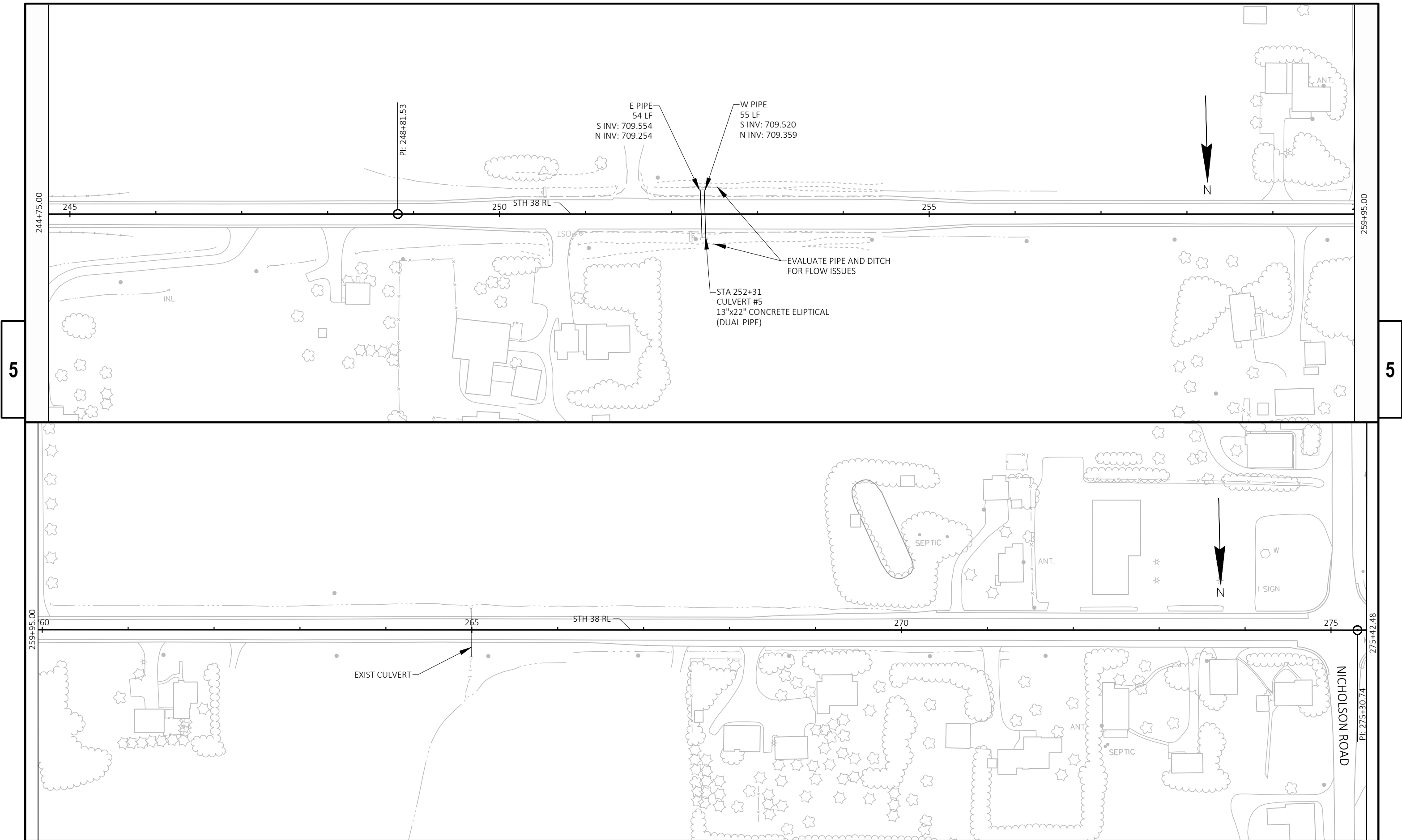
PROJECT NO: 2290-24-70	HWY: STH 38	COUNTY: RACINE & MILWAUKEE	PLAN DETAILS	SHEET	E
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PROJECT NO: 2290-24-70	HWY: STH 38	COUNTY: RACINE & MILWAUKEE	PLAN DETAILS	SHEET	E
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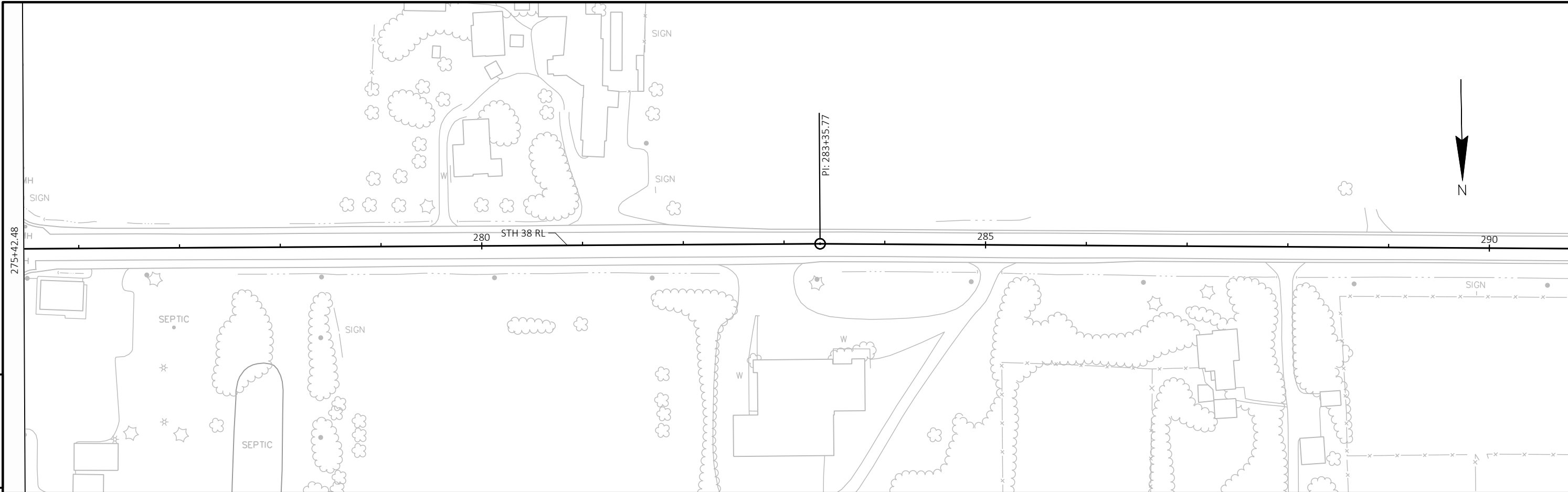


PROJECT NO: 2290-24-70	HWY: STH 38	COUNTY: RACINE & MILWAUKEE	PLAN DETAILS	SHEET	E
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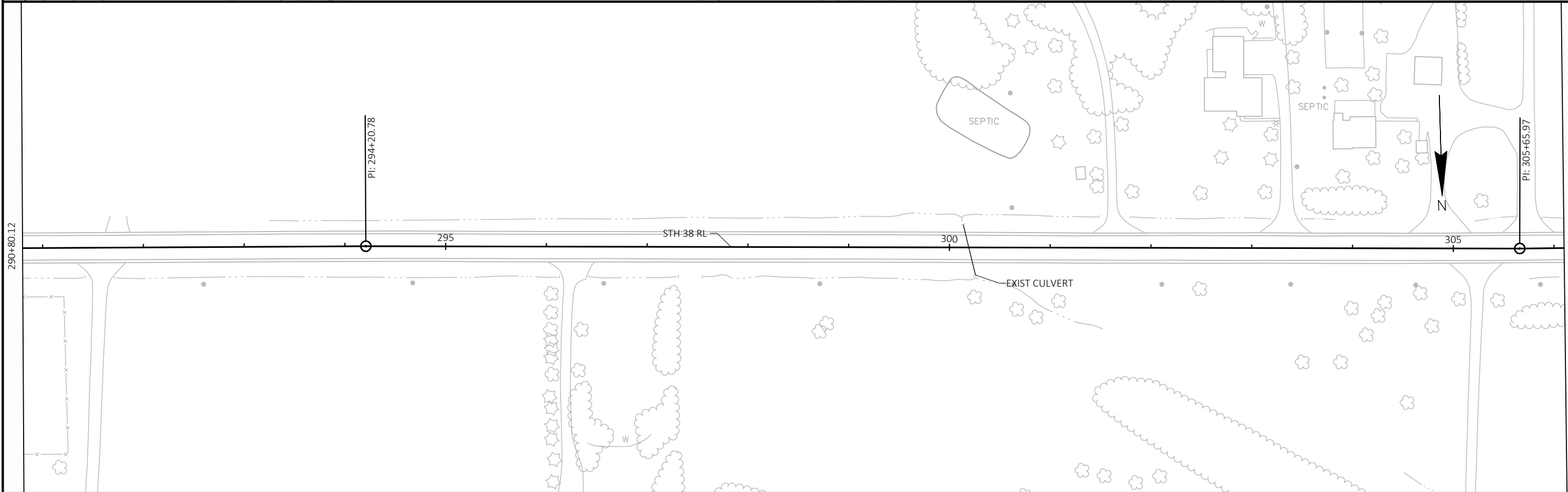


PROJECT NO: 2290-24-70	HWY: STH 38	COUNTY: RACINE & MILWAUKEE	PLAN DETAILS	SHEET	E
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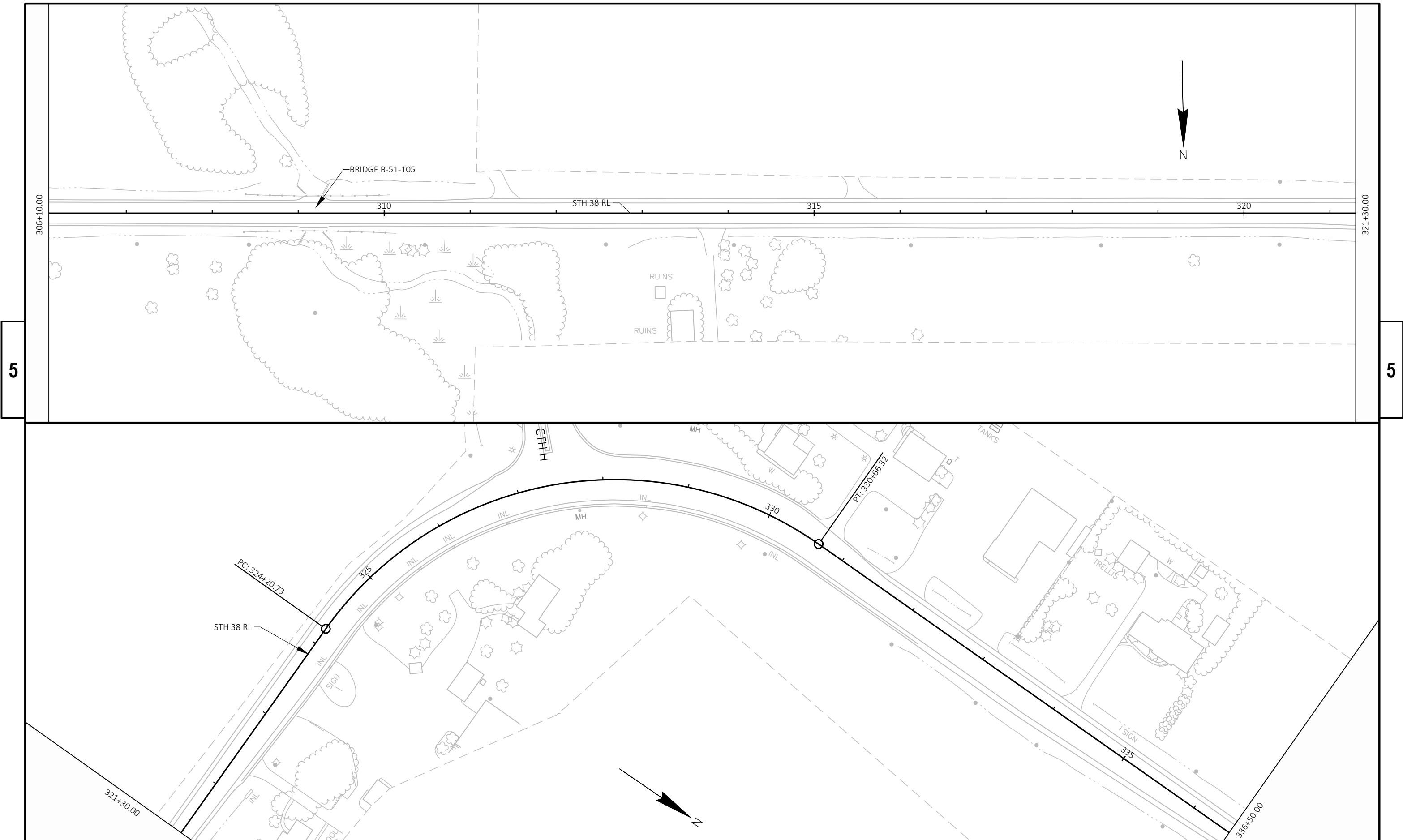
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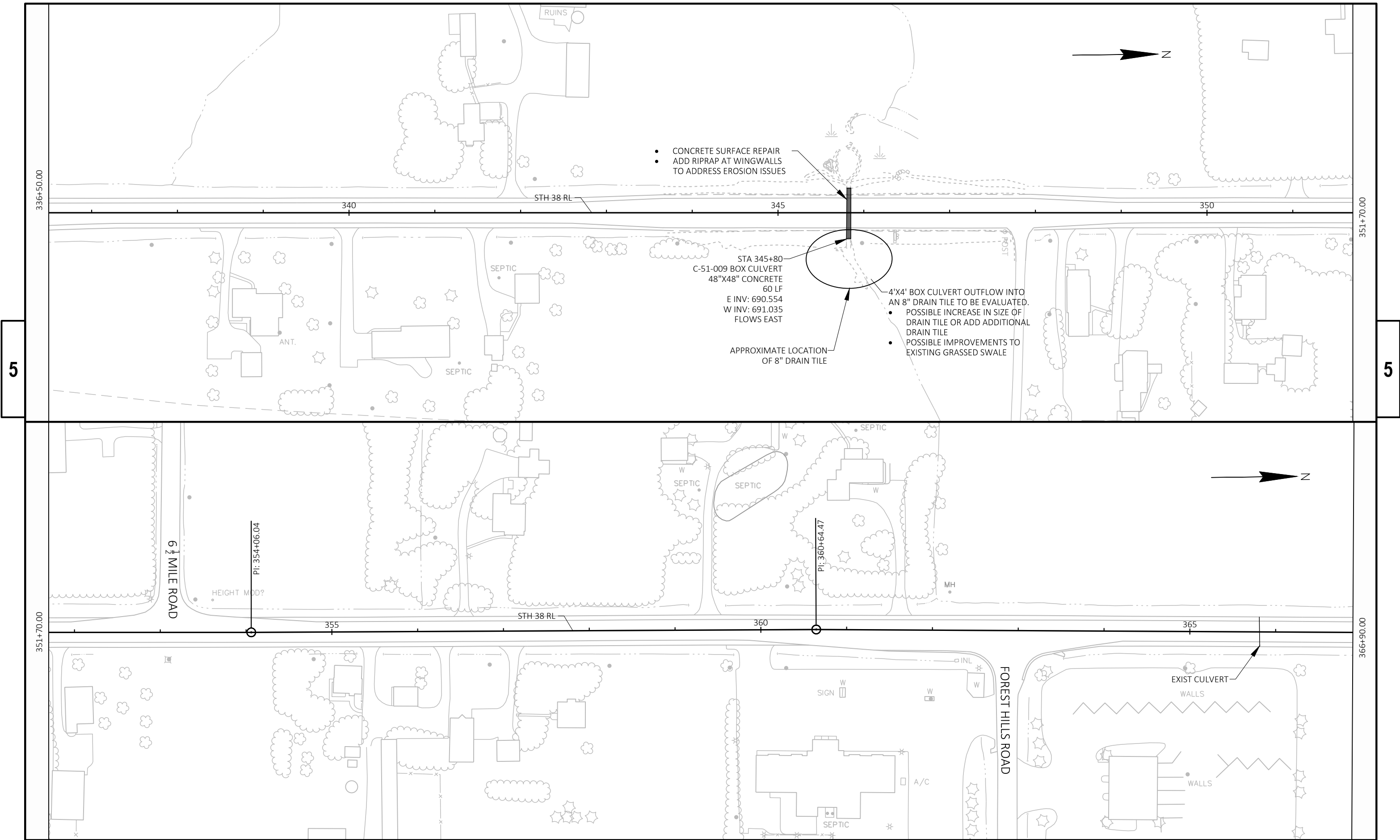
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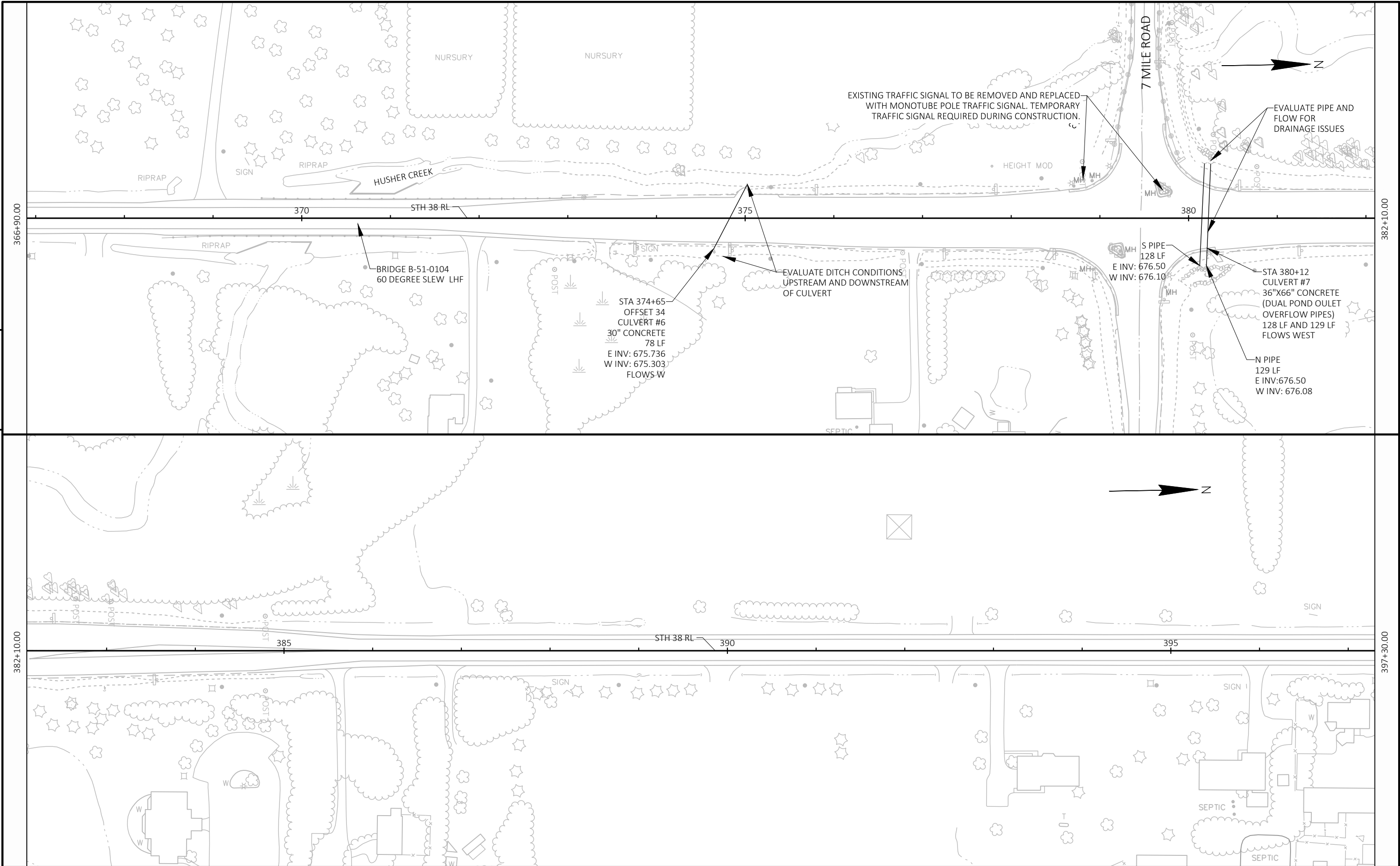
PROJECT NO: 2290-24-70	HWY: STH 38	COUNTY: RACINE & MILWAUKEE	PLAN DETAILS	SHEET	E
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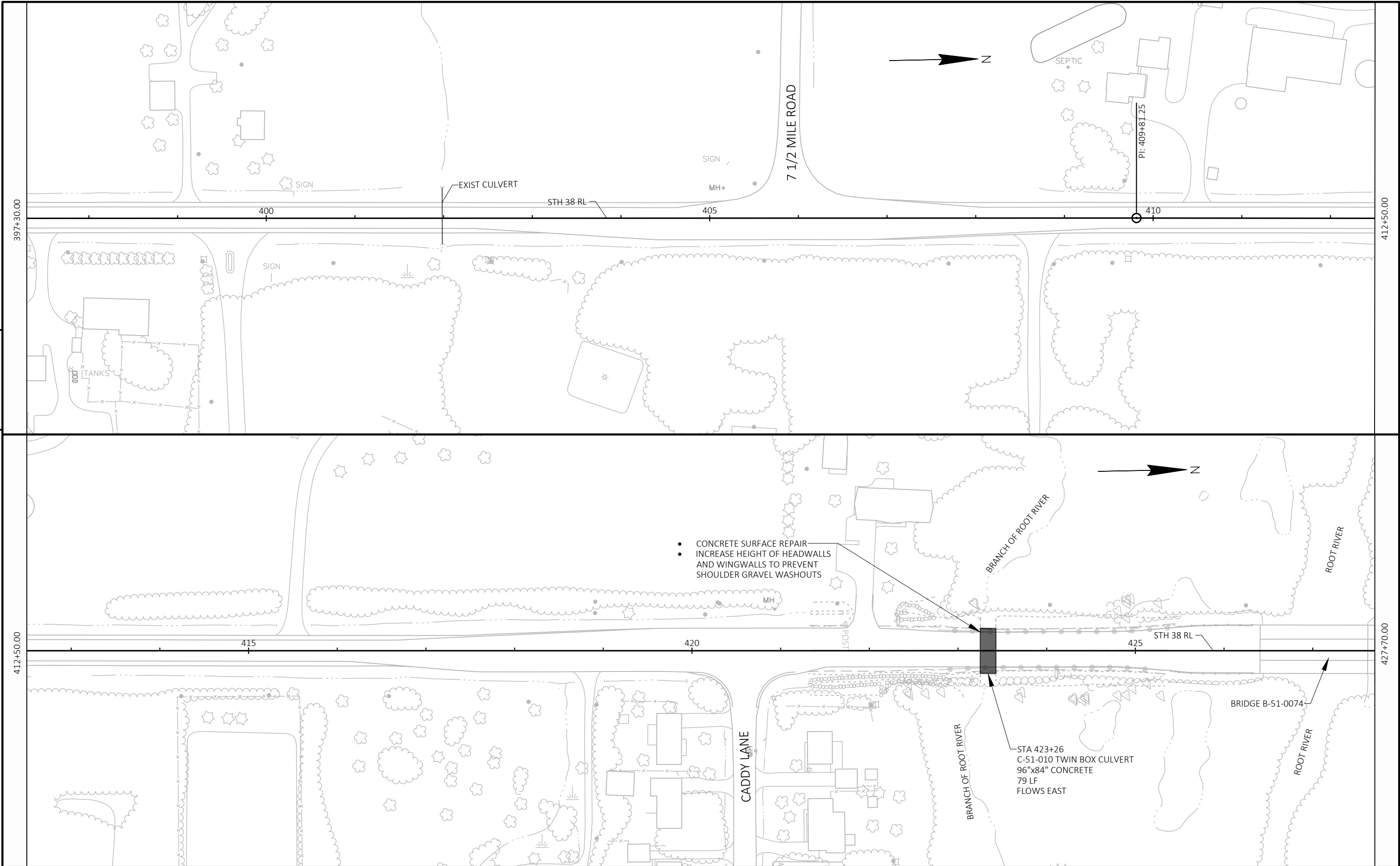
PROJECT NO: 2290-24-70	HWY: STH 38	COUNTY: RACINE & MILWAUKEE	PLAN DETAILS	SHEET	E
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PROJECT NO: 2290-24-70	HWY: STH 38	COUNTY: RACINE & MILWAUKEE	PLAN DETAILS	SHEET	E
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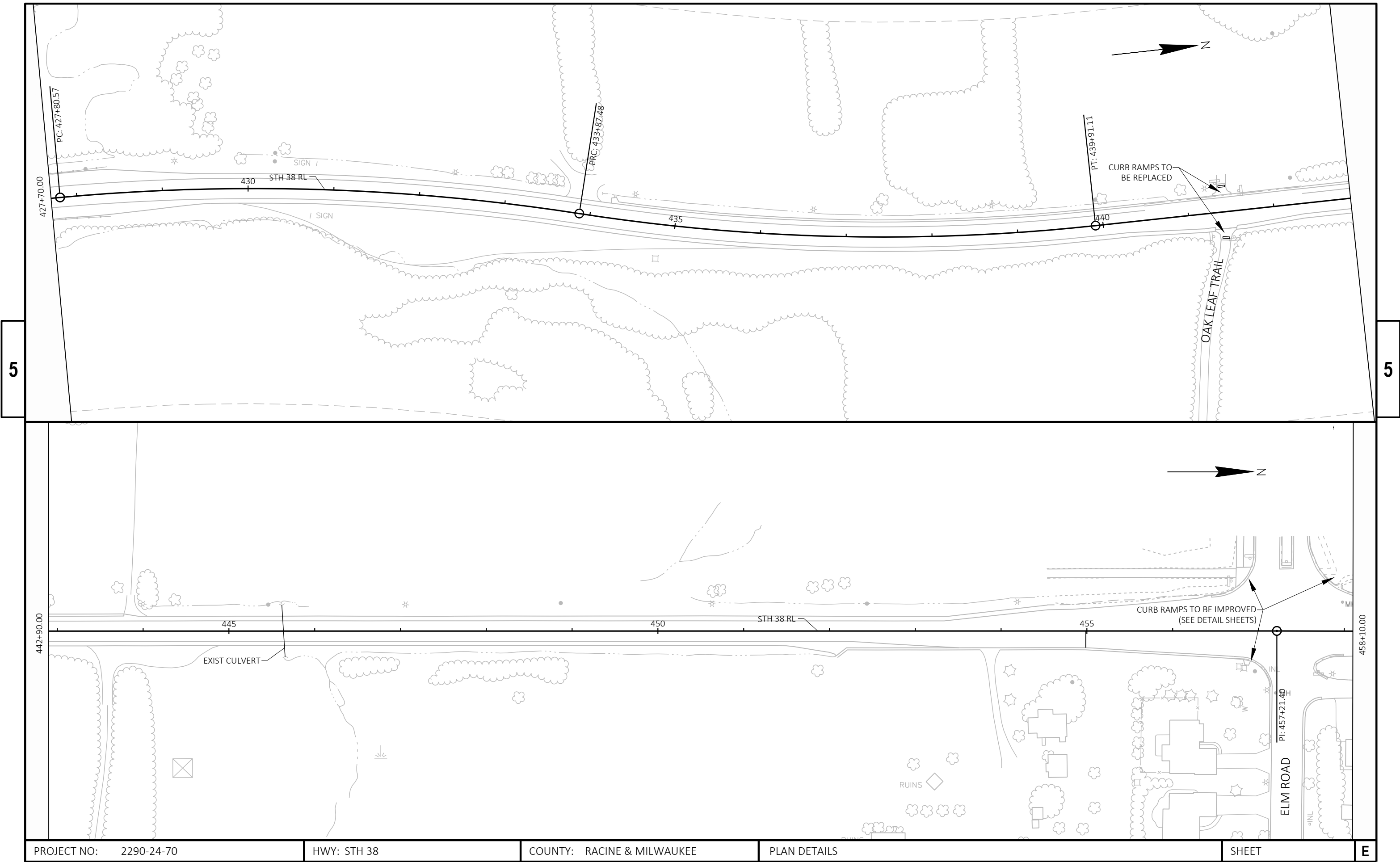
PROJECT NO: 2290-24-70	HWY: STH 38	COUNTY: RACINE & MILWAUKEE	PLAN DETAILS	SHEET	E
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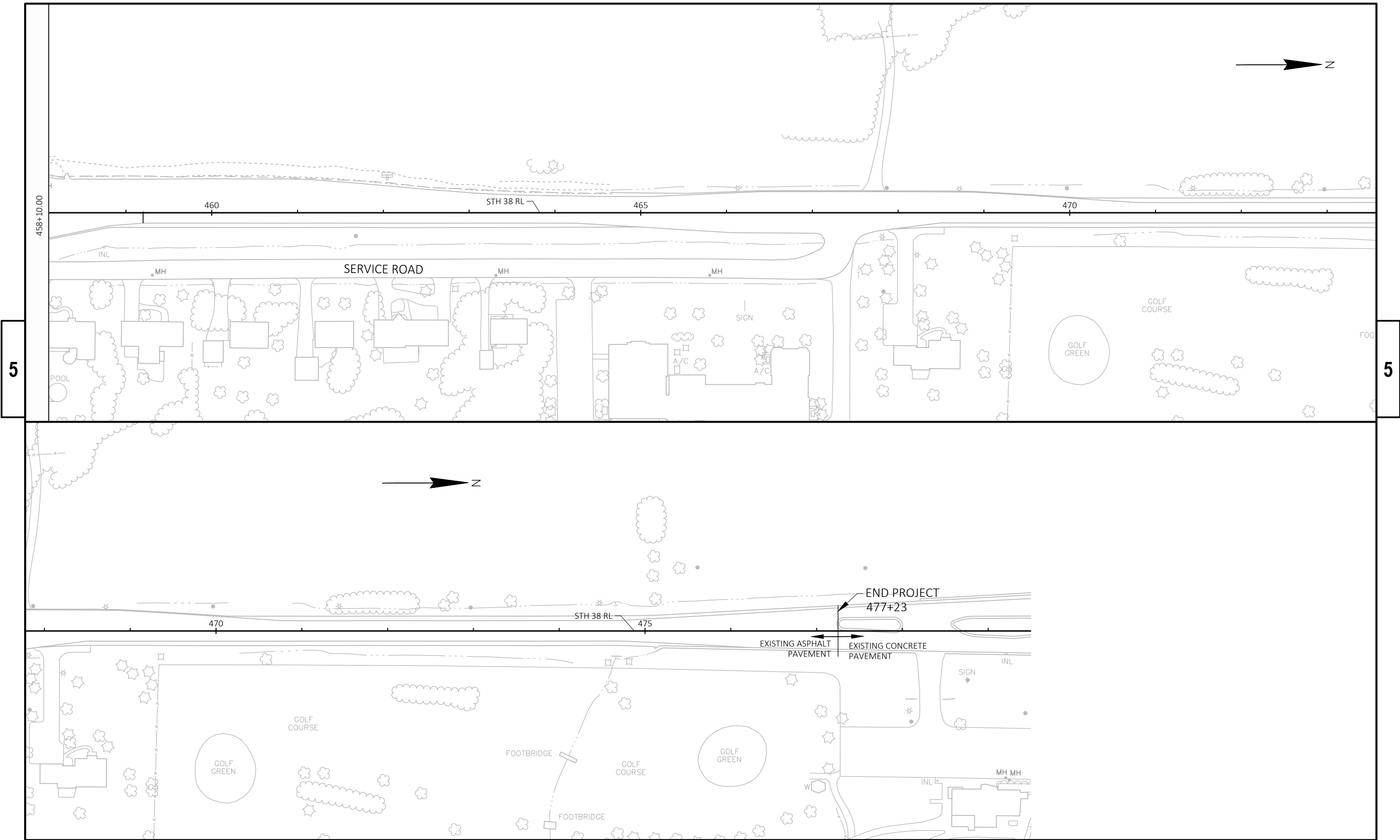
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PROJECT NO: 2290-24-70	HWY: STH 38	COUNTY: RACINE & MILWAUKEE	PLAN DETAILS	SHEET	E
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PROJECT NO: 2290-24-70	HWY: STH 38	COUNTY: RACINE & MILWAUKEE	PLAN DETAILS	SHEET	E
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PROJECT NO: 2290-24-70	HWY: STH 38	COUNTY: RACINE & MILWAUKEE	PLAN DETAILS	SHEET	E
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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 the 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