

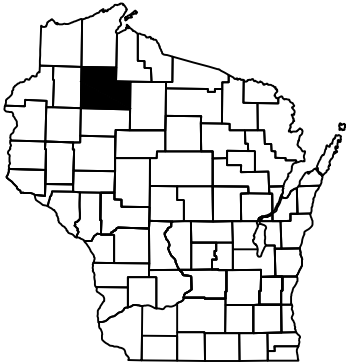
PROJECT ID: 8150-00-71
WITH: N/A

COUNTY: SAWYER

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.	2018	=	1,100
A.A.D.T.	2042	=	1,100
D.H.V.		=	
D.D.		=	
T.		=	9.7%
DESIGN SPEED		=	60 MPH
ESALS		=	160,000

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	

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

PLAN OF PROPOSED IMPROVEMENT

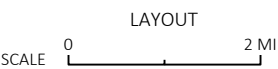
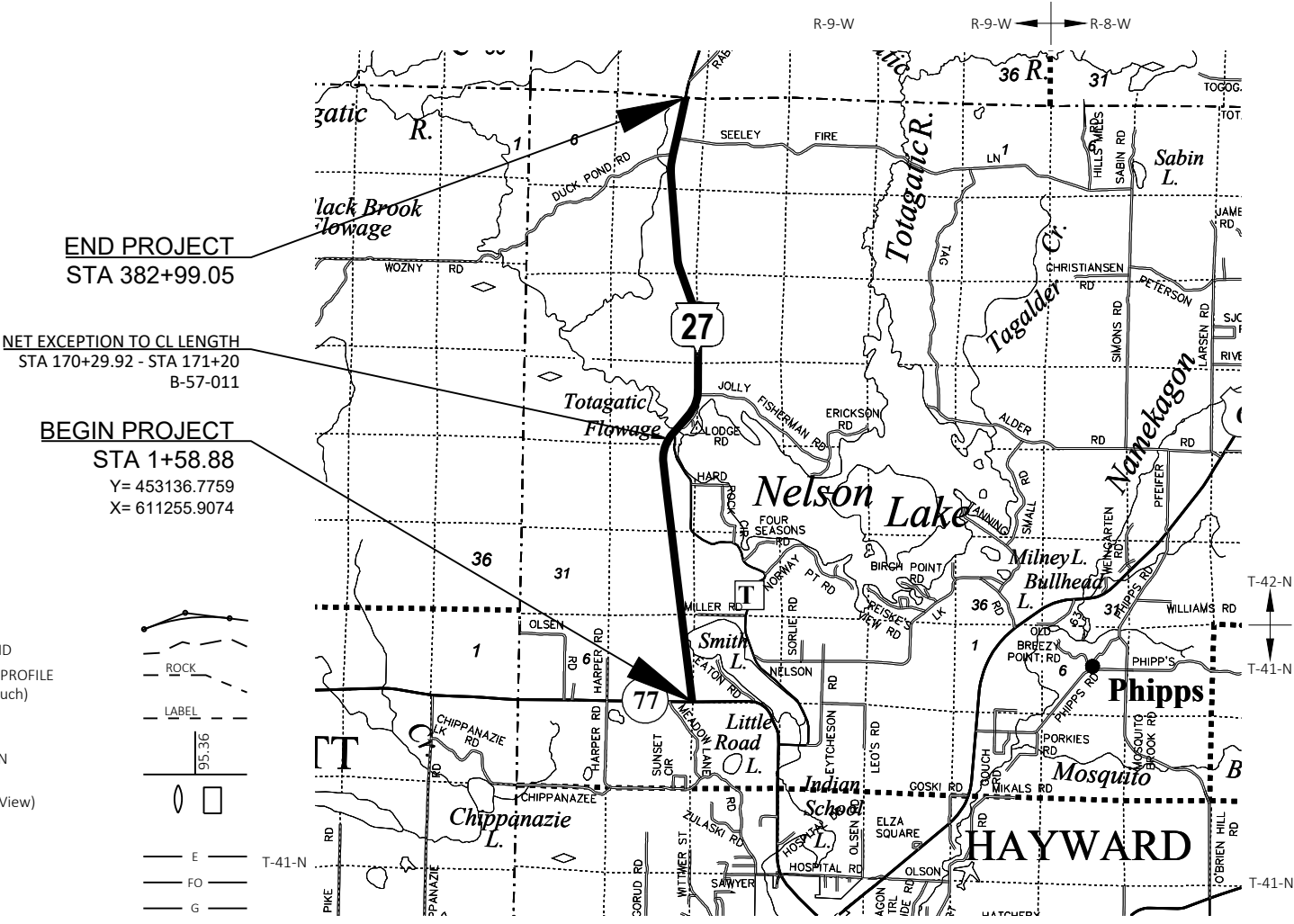
HAYWARD - BRULE

STH 77 W TO SAWYER / BAYFIELD CO LN

STH 27

SAWYER COUNTY

STATE PROJECT NUMBER
8150-00-71



TOTAL NET LENGTH OF CENTERLINE = 7.206 MILES

HORIZONTAL POSITIONS SHOWN ON THIS PLAN ARE WISCONSIN COORDINATE REFERENCE SYSTEM (WISCRS), SAWYER COUNTY, NAD83 (2011), 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 (2012). GPS DERIVED ELEVATIONS ARE BASED ON GEOID 12A.

STATE PROJECT	FEDERAL PROJECT	
	PROJECT	CONTRACT
8150-00-71		

60% PLAN
FEBRUARY 1, 2021

ORIGINAL PLANS PREPARED BY
CBS SQUARED, INC.

DATE: _____
(Professional Engineer Signature)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

PREPARED BY
Surveyor _____ CBS SQUARED, INC.
Designer _____ CBS SQUARED, INC.
Project Manager _____ DOUG CAIN
Regional Examiner _____ REGIONAL EXAMINER
Regional Supervisor _____ REGIONAL SUPERVISOR

APPROVED FOR THE DEPARTMENT
DATE: _____
(Signature)

E

GENERAL NOTES

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

ALL DISTURBED AREAS WITHIN THE RIGHT OF WAY THAT ARE NOT INCIDENTAL TO CONTRACT WORK ITEMS SHALL BE FERTILIZED SEEDED AND MULCHED AT THE CONTRACTORS EXPENSE.

A SAWED JOINT WILL BE REQUIRED WHERE NEW PAVEMENT IS TO MEET AN EXISTING PAVED SURFACE.

EXACT LOCATION OF ALL DRIVEWAY ENTRANCES TO BE REVIEWED AND APPROVED BY THE ENGINEER.

THE LOCATION 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.

TRAFFIC CONTROL DEVICES SHALL BE ADJUSTED TO FIT FIELD CONDITIONS AS DIRECTED BY THE ENGINEER.

TACK COAT HAS BEEN ESTIMATED AT AN APPLICATION OF 0.07 GAL./S.Y. AND SHALL BE PLACED BETWEEN THE LAYERS OF ASPHALTIC PAVEMENT

HMA PAVEMENT WEIGHT CALCULATIONS ARE BASED ON 112 LB/SY/IN.

THE ALIGNMENT IN THIS PLAN IS BASED ON FIELD SURVEY AND AS BUILTS (ID 8150-14-71).

THE CENTERLINE AS SHOWN IN THE PLANS MAY REQUIRE ADJUSTMENT TO MATCH FIELD CONDITIONS. ANY ADJUSTMENTS SHALL BE INCIDENTAL TO OTHER ITEMS IN THE CONTRACT.

HMA PAVEMENT SHALL BE CONSTRUCTED WITH THE FOLLOWING LAYER THICKNESS:

TOTAL LAYER PAVEMENT THICKNESS	LAYERS	HMA PAVEMENT ITEM
3.25-INCHES	1.5" UPPER 1.75" LOWER	HMA PAVEMENT 5 MT 58-34 V HMA PAVEMENT 5 MT 58-34 V

ORDER OF SECTION 2 SHEETS

- PROJECT OVERVIEW
- TYPICAL SECTIONS
- CONSTRUCTION DETAILS

STANDARD ABBREVIATIONS

AP	ACCESS POINT	INV	INVERT
AC	ACRE	JT	JOINT
AGG	AGGREGATE	LT	LEFT
ASPH	ASPHALTIC	LF	LINEAR FOOT
BL	BASELINE	MH	MANHOLE
BM	BENCH MARK	MP	MARKER POST
CB	CATCH BASIN	MB	MESSAGE BOARD
CL	CENTER LINE	NOM	NOMINAL
CONC	CONCRETE	NB	NORTHBOUND
CO	COUNTY	PAVT	PAVEMENT
CABC	CRUSHED AGGREGATE BASE	PERM	PERMENANT
COURSE		PU	PIPE UNDERDRAIN
CY	CUBIC YARD	PCC	PORTLAND CEMENT
CULV	CULVERT	CONCRETE	
CP	CULVERT PIPE	PE	PRIVATE ENTRANCE
C&G	CURB AND GUTTER	PROJ	PROJECT
DIA	DIAMETER	PL	PROPERTY LINE
DWY	DRIVEWAY	RL	REFERENCE LINE
EB	EASTBOUND	RT	RIGHT
ELEV	ELEVATION	R/W	RIGHT OF WAY
EW	ENDWALL	RDWY	ROADWAY
ENT	ENTRANCE	SHLDR	SHOULDER
EXC	EXCAVATION	SB	SOUTHBOUND
FP	FENCE POST	SS	STORM SEWER
FERT	FERTILIZE	TEL	TELEPHONE
F	FILL	TEMP	TEMPORARY
FG	FINISHED GRADE	TER	TERRACE
FL	FLOW LINE	TV	TELEVISION
FO	FIBER OPTIC	UG	UNDERGROUND
FT	FOOT	VOL	VOLUME
HYD	HYDRANT	W	WATER
INL	INLET	WB	WESTBOUND
INTERS	INTERSECTION		

UTILITIES

COMMUNICATIONS

CENTURYLINK
MONTY PARKER
20 S WILSON AVE
RICE LAKE, WI 54868
(715) 234-5528
MONTY.PARKER@CENTURYLINK.COM

COMMUNICATIONS

NORVADO
GUY FOLSOM
43705 USH 63
CABLE, WI 54821-0067
(715) 798-7123
GFOLSOM@NORVADO.COM

COMMUNICATIONS

CHARTER COMMUNICATIONS
RYAN LUCKEN
1201 MCCANN DR
ALTOONA, WI 54720
(715) 831-8940
RYAN.LUCKEN@CHARTER.COM

ELECTRICITY

XCEL ENERGY
CORISSA SEELY
1414 W HAMILTON AVENUE
P.O. BOX 8
EAU CLAIRE, WI 54702-0008
(715) 737-4097
CORISSA.E.SEELY@XCELENERGY.COM

OTHER CONTACTS

DESIGN CONTACT

CBS SQUARED, INC.
TAMMY TUCKER
2500 E ENTERPRISE AVE, SUITE A
APPLETON, WI 54913
(920) 257-5021 EXT 5021
TTUCKER@CBSSQUAREDINC.COM

WISCONSIN DNR CONTACT

NORTHERN REGION
SHAWN HASELEU
810 W MAPLE ST
SPOONER, WI 54801
(715) 635-4228
SHAWN.HASELEU@WISCONSIN.GOV

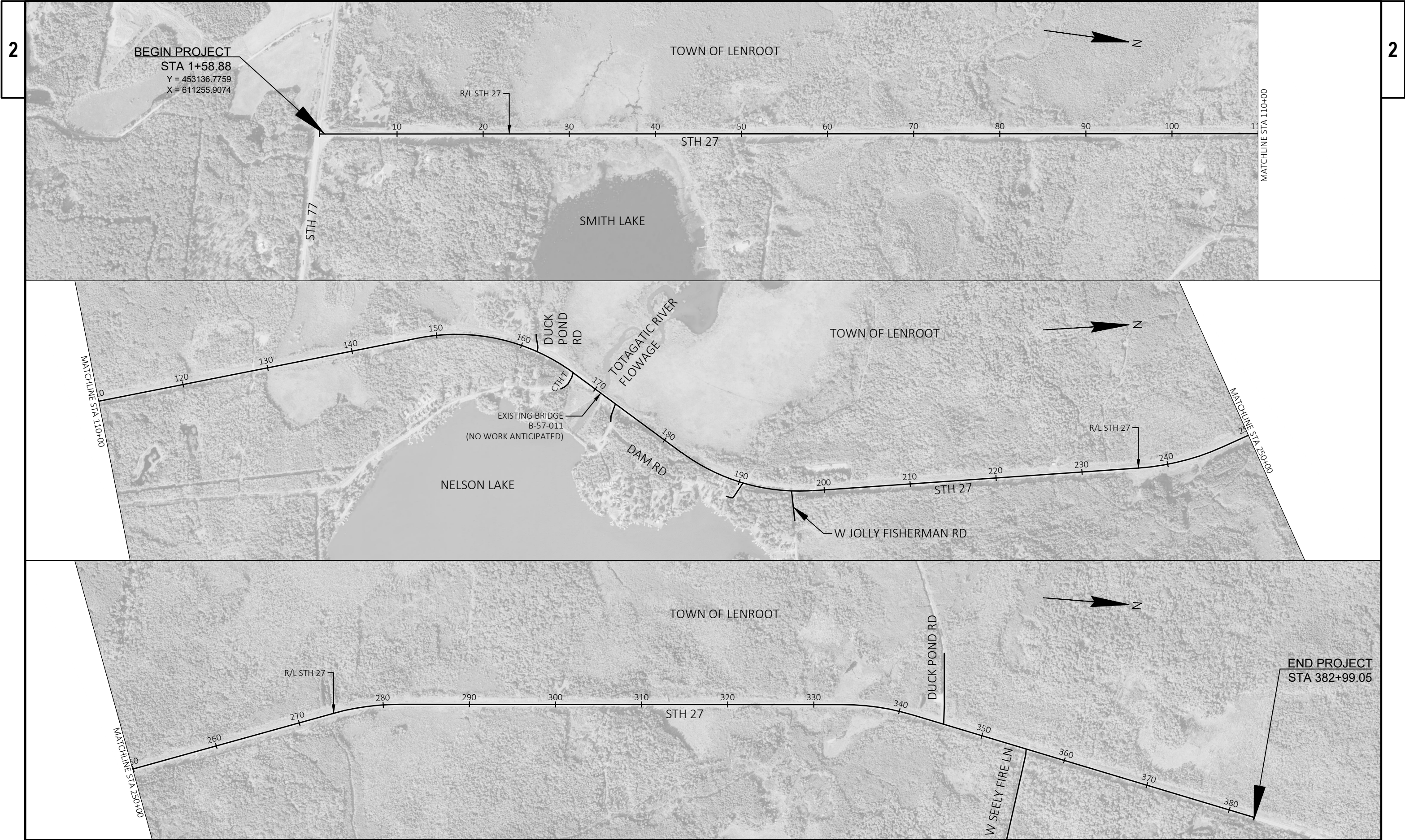
SAWYER COUNTY AIRPORT

MANAGER
DEREK LESLIE
10930N AIRPORT RD
HAYWARD, WI 54843
(715) 634-4624
DEREK.LESLIE@SAWYERCOUNTYGOV.ORG

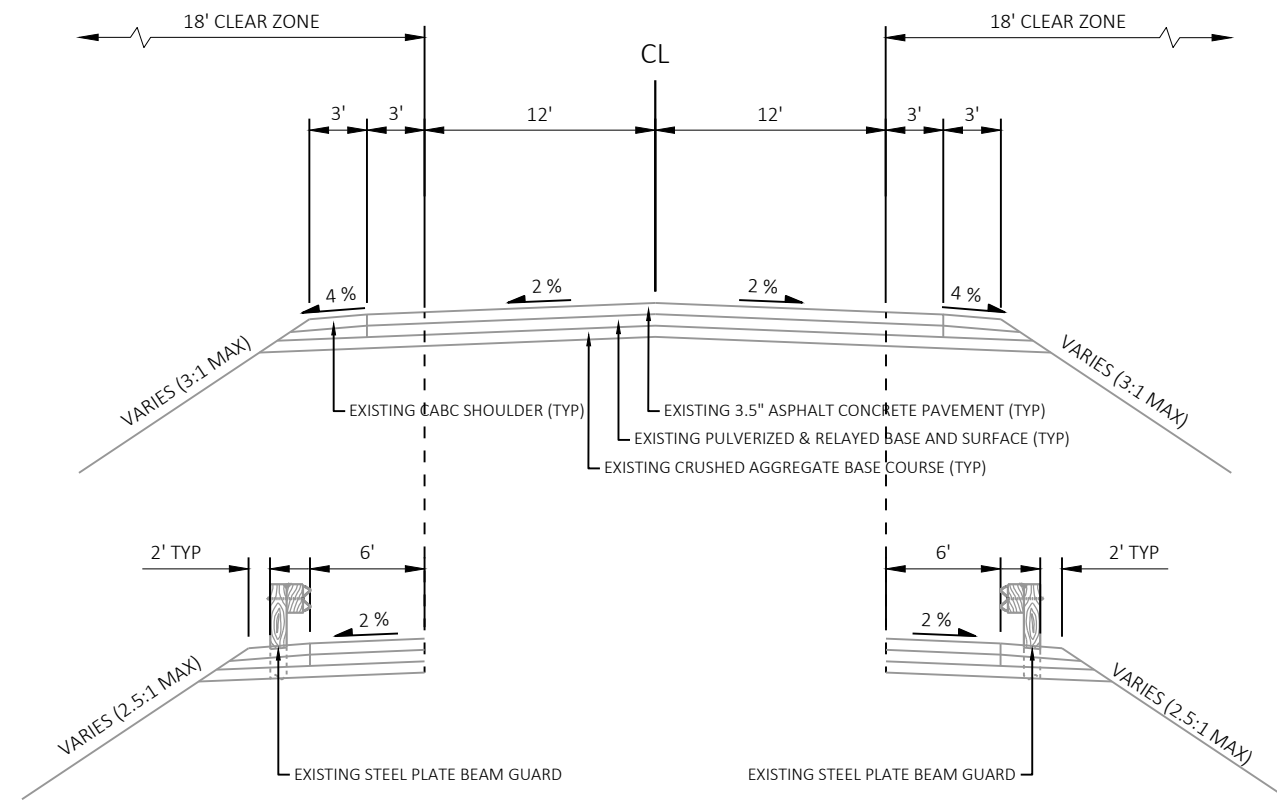
WISDOT CONTACT

DOUG CAIN
141 N.W. BARSTOW ST
WAUKESHA, WI 53188-3789
(608) 548-5603
DOUGLAS.CAIN@DOT.WI.GOV





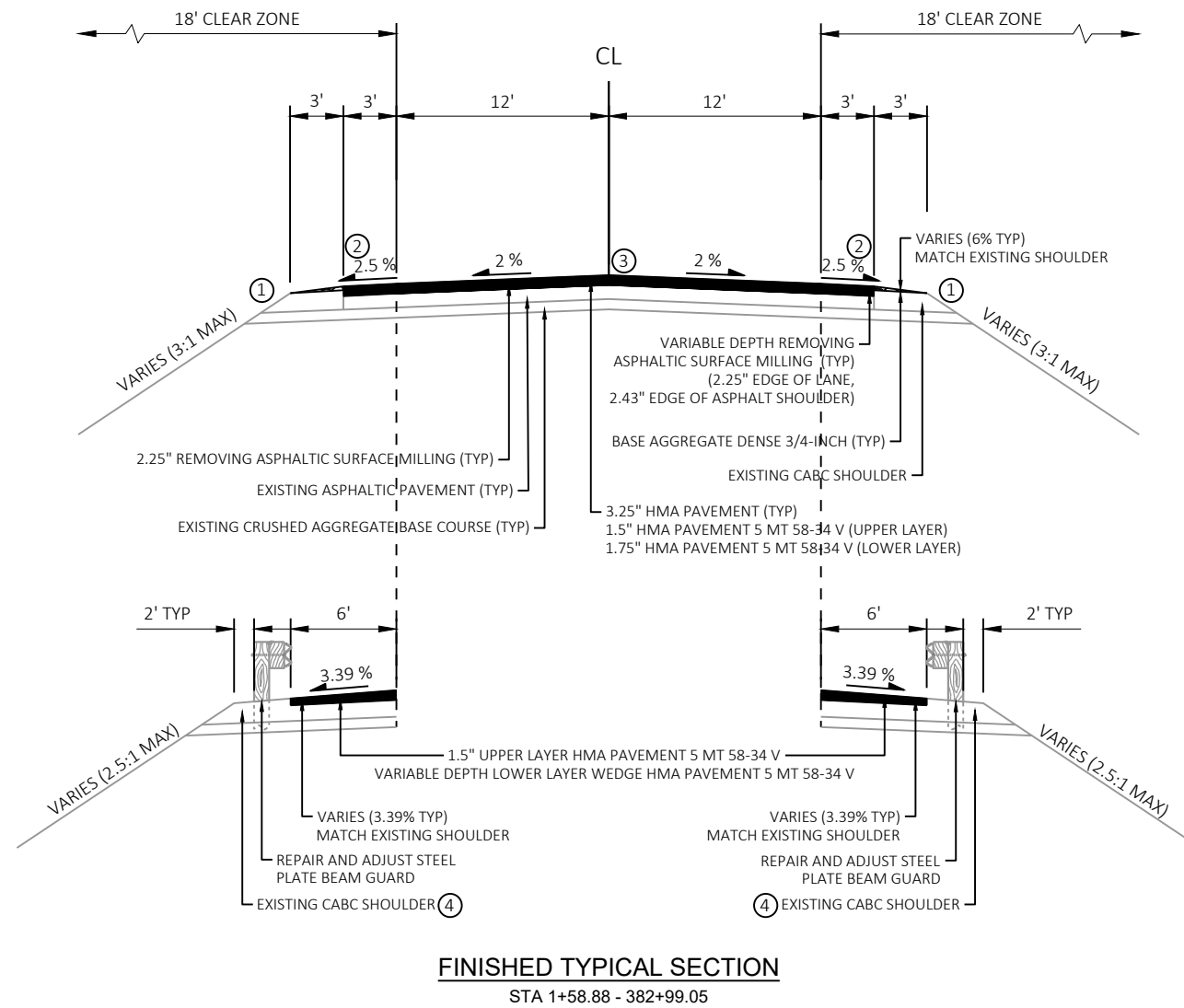
PROJECT NO: 8150-00-71	HWY: STH 27	COUNTY: SAWYER	PROJECT OVERVIEW	SHEET	E
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EXISTING TYPICAL SECTION
STA 1+58.88 - 382+99.05

NOTE:

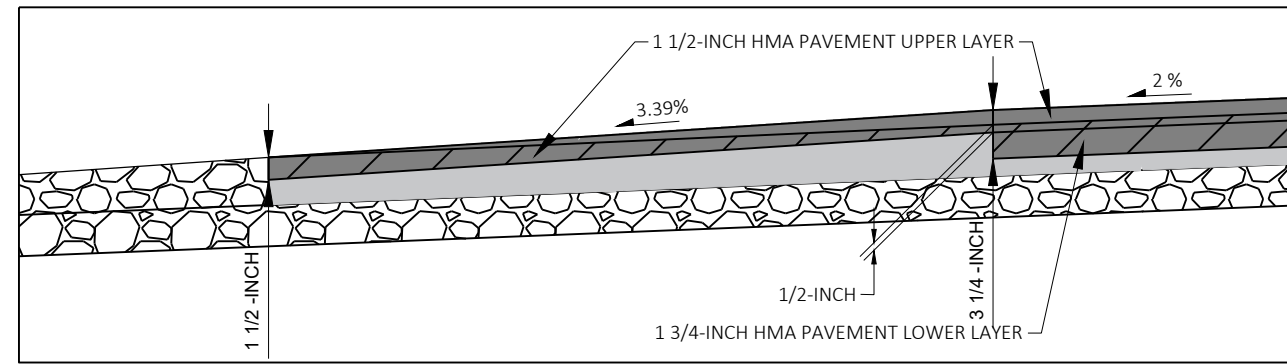
ROADWAY IS SUPERELEVATED AT LOCATIONS OF HORIZONTAL CURVES.
SEE PLAN SHEETS FOR LOCATIONS AND SUPERELEVATION RATES.

**LEGEND:**

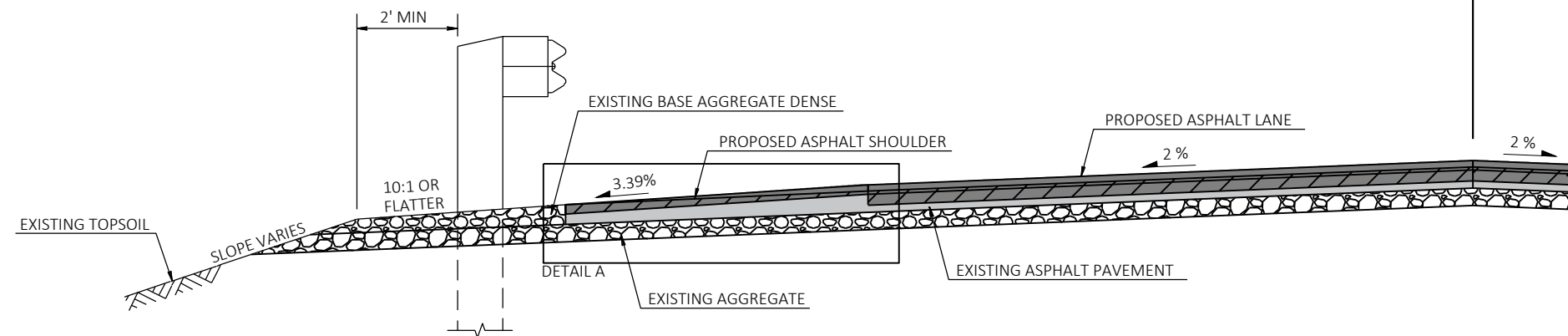
- ① MATCH EXISTING SHOULDER POINT. DO NOT STEEPEN FORESLOPE.
- ② SAFETY EDGE.
- ③ ASPHALTIC CENTERLINE RUMBLE STRIPS 2-LANE RURAL.
SEE MISCELLANEOUS QUANTITIES FOR LOCATIONS.
- ④ BASE AGGREGATE DENSE 3/4-INCH FOR TOUCHUP.

NOTE:

ROADWAY IS SUPERELEVATED AT LOCATIONS OF HORIZONTAL CURVES.
SEE PLAN SHEETS FOR LOCATIONS AND SUPERELEVATION RATES.



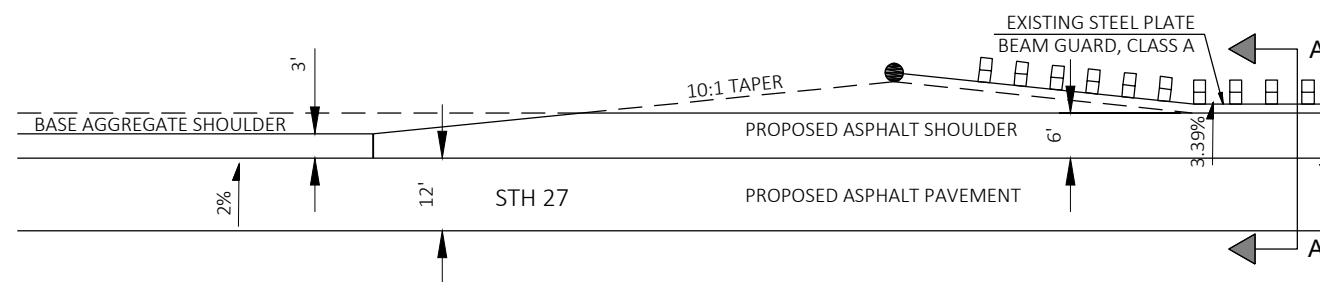
DETAIL A



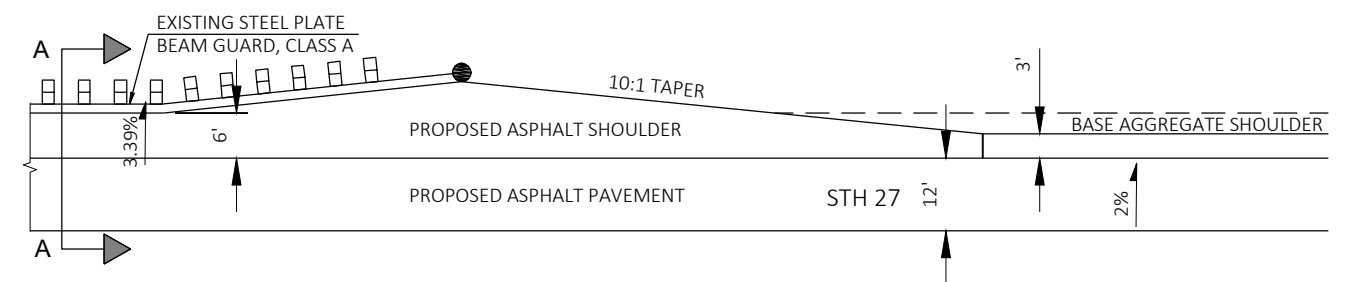
SECTION A-A

LEGEND

- PROPOSED HMA PAVEMENT, 3 1/4-INCH (1 1/2-INCH UPPER LAYER, 1 3/4-INCH LOWER LAYER) MAINLINE AND 1 1/2-INCH (SINGLE LAYER) SHOULDER
- ▨ REMOVING ASPHALTIC SURFACE MILLING, 2 1/4-INCH LANE AND VARIABLE DEPTH SHOULDER (1/2-INCH AT EDGE OF LANE AND 1 1/2-INCH AT EDGE OF SHOULDER)



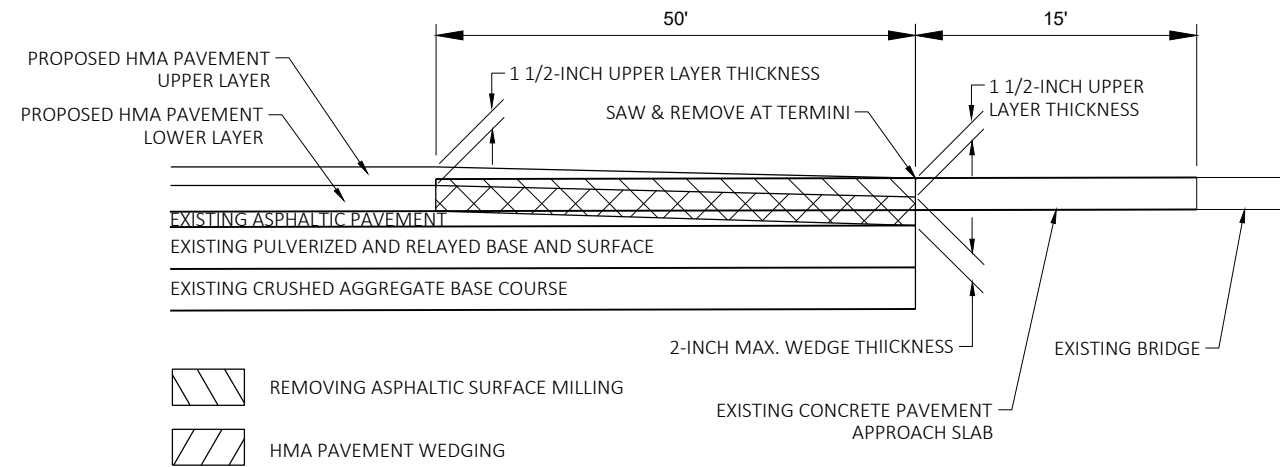
EXAMPLE OF GUARDRAIL IN MAINLINE SECTION*



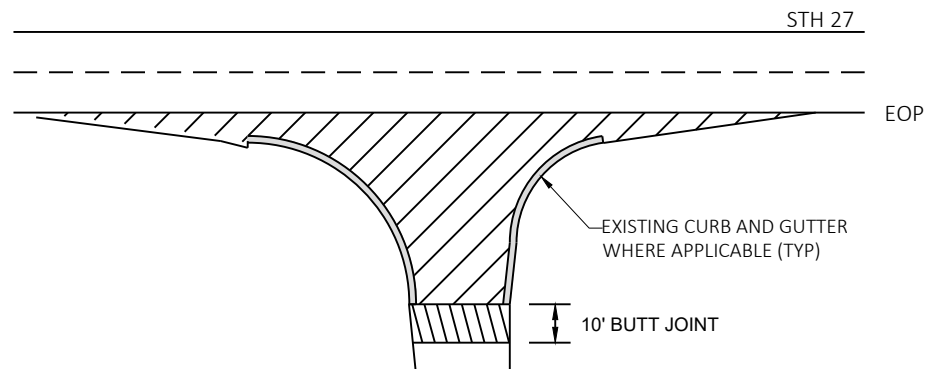
EXAMPLE OF GUARDRAIL AT BRIDGE APPROACH*

DETAIL FOR ASPHALT SHOULDER AT STEEL PLATE GUARDRAIL

* MATCH EXISTING ASPHALTIC PAVEMENT LIMITS WITH PROPOSED HMA OVERLAY



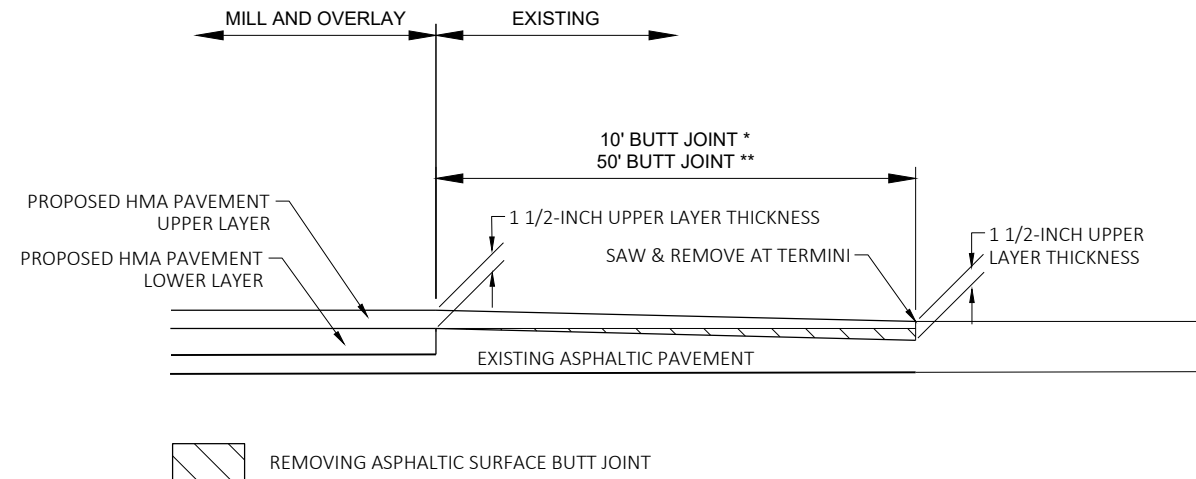
DETAIL OF BUTT JOINT - BRIDGE APPROACH



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

NOTE: WHEN MATCHING TO AN UNPAVED SURFACE BUTT JOINT IS NOT REQUIRED

SIDE ROAD PLAN VIEW

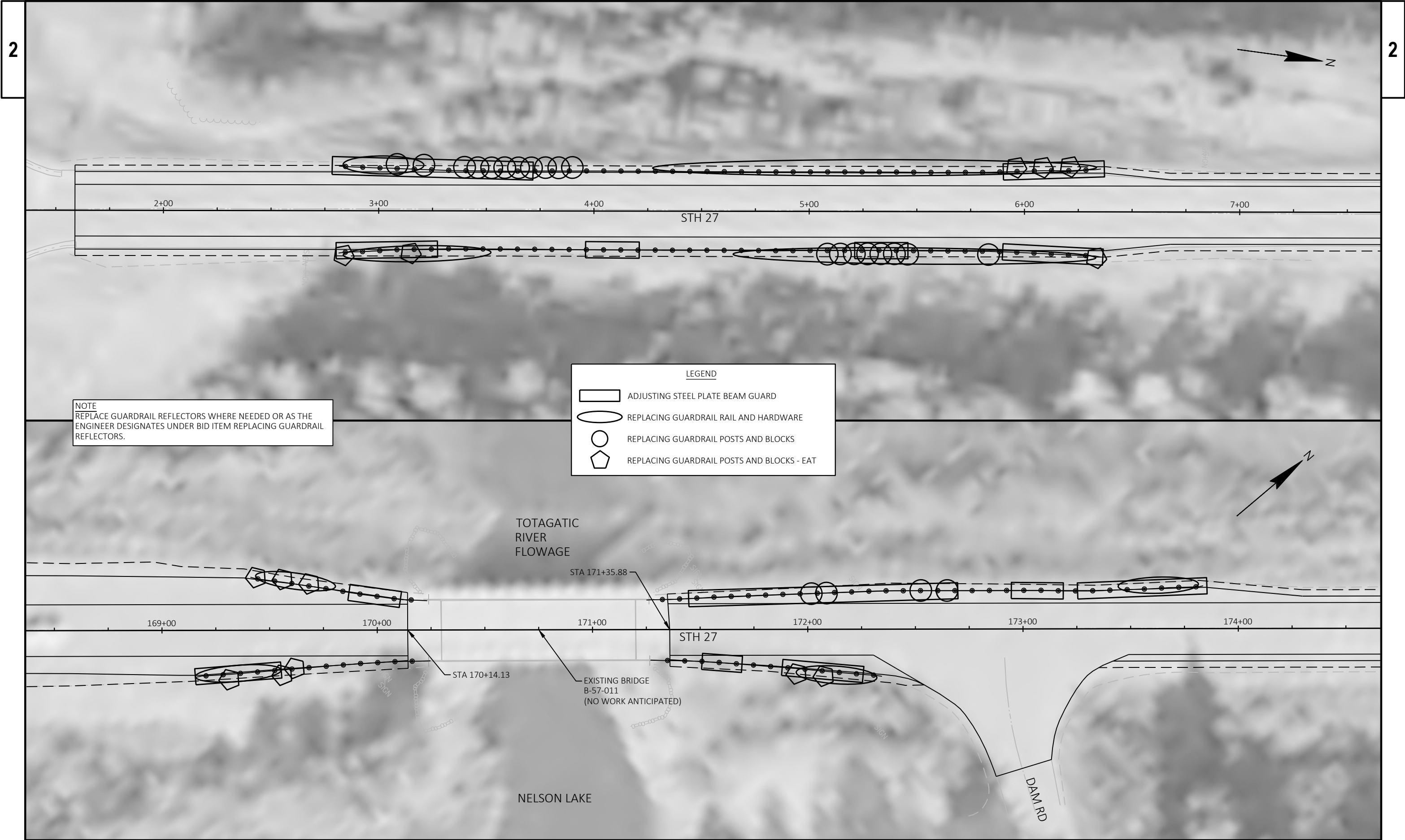


MAINLINE AND SIDE ROAD PROFILE VIEW

- * SIDE ROADS
- ** MAINLINE (NORTH AND SOUTH PROJECT LIMITS)

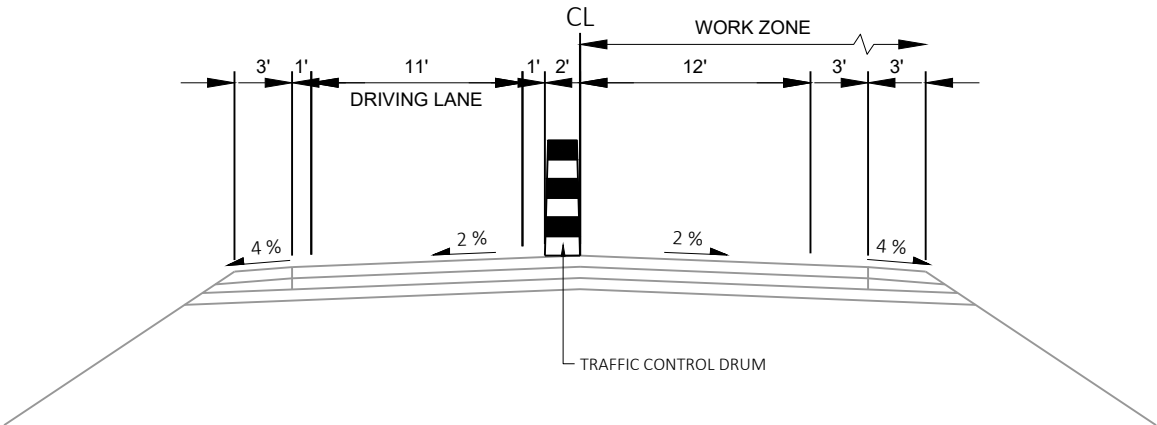
DETAIL OF BUTT JOINT - MAINLINE AND SIDE ROADS

SIDE ROADS
CTH T
DAM RD (SOUTH)
DAM RD (NORTH)
W JOLLY FISHERMAN RD
DUCK POND RD
W SEELEY FIRE LN

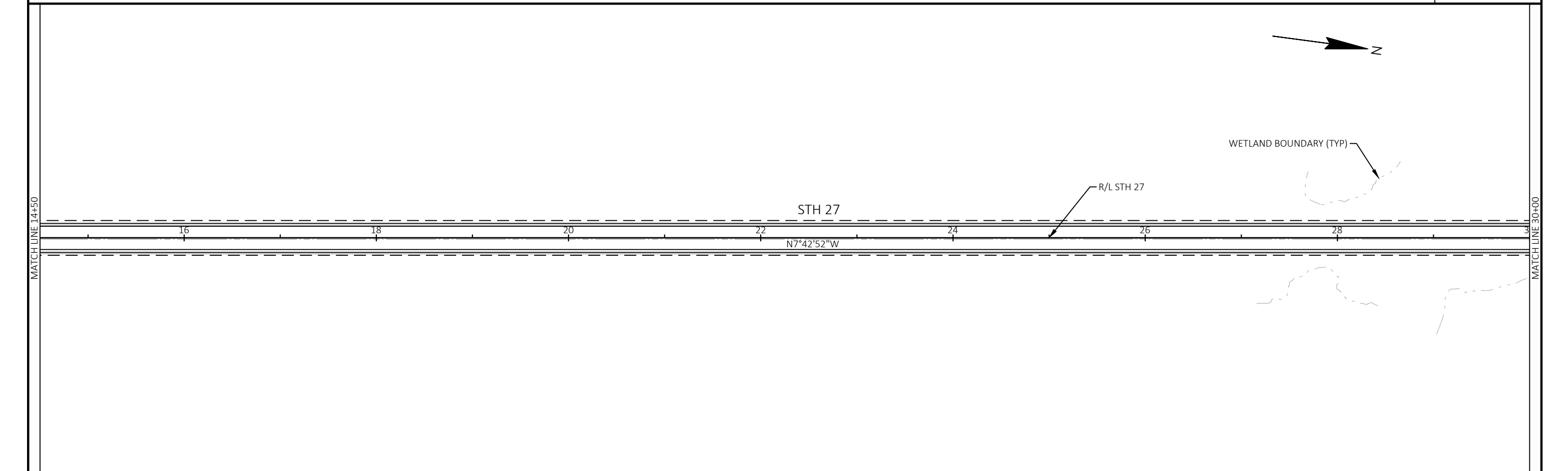
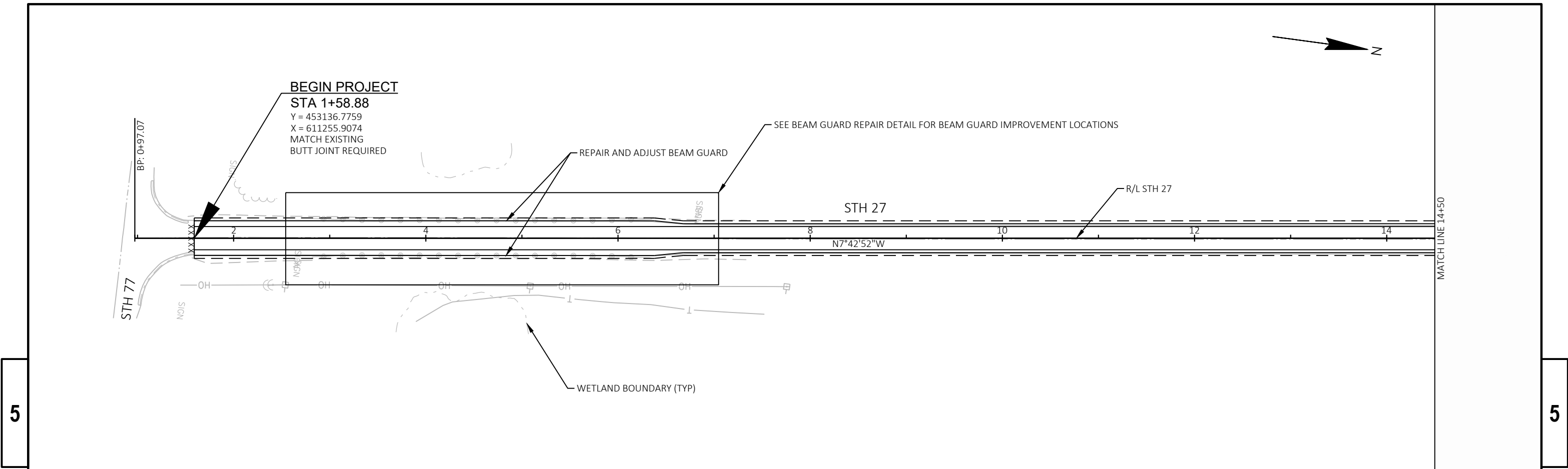


TRAFFIC CONTROL NOTES

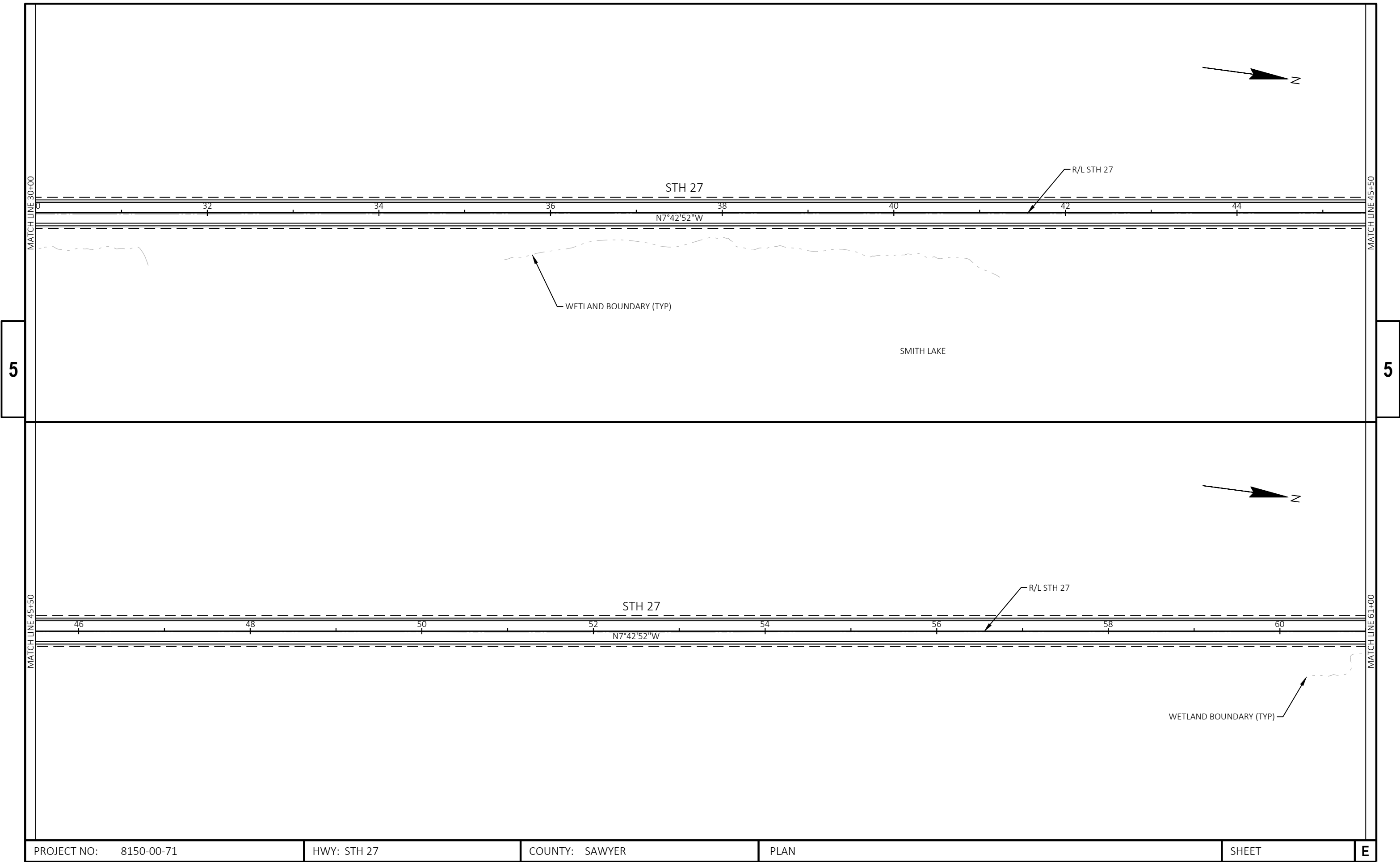
- 1. THE EXACT NUMBER, LOCATION, AND SPACING OF ALL SIGNS AND DEVICES SHALL BE ADJUSTED TO FIT FIELD CONDITIONS AS DIRECTED BY THE ENGINEER.
- 2. A FLAGGER MAY BE REQUIRED WHERE CONSTRUCTION VEHICLES ENTER OR LEAVE WORK AREAS IF WARRANTED BY CONDITIONS OR AS DIRECTED BY THE ENGINEER.
- 3. ALL TRAFFIC CONTROL SIGNS SHALL BE 48" X 48" UNLESS OTHERWISE NOTED IN THE PLANS.
- 4. "WO" SIGNS ARE THE SAME AS "W" SIGNS EXCEPT THE BACKGROUND IS REFLECTIVE ORANGE.
- 5. ALL SIGNS, TEMPORARY OR EXISTING, WHICH CONFLICT WITH TRAFFIC CONTROL "IN USE" SHALL BE COVERED OR REMOVED AS NEEDED AND/OR DIRECTED BY THE ENGINEER.
- 6. SEE SDD "TRAFFIC CONTROL, ADVANCE WARNING SIGNS 45 M.P.H. OR GREATER, TWO WAY UNDIVIDED ROAD OPEN TO TRAFFIC"
- 7. SEE SDD "TRAFFIC CONTROL FOR LANE CLOSURE WITH FLAGGING OPERATION"
- 8. SEE SDD "TRAFFIC CONTROL, WORK ON SHOULDER OR PARKING LANE, UNDIVIDED ROADWAY"



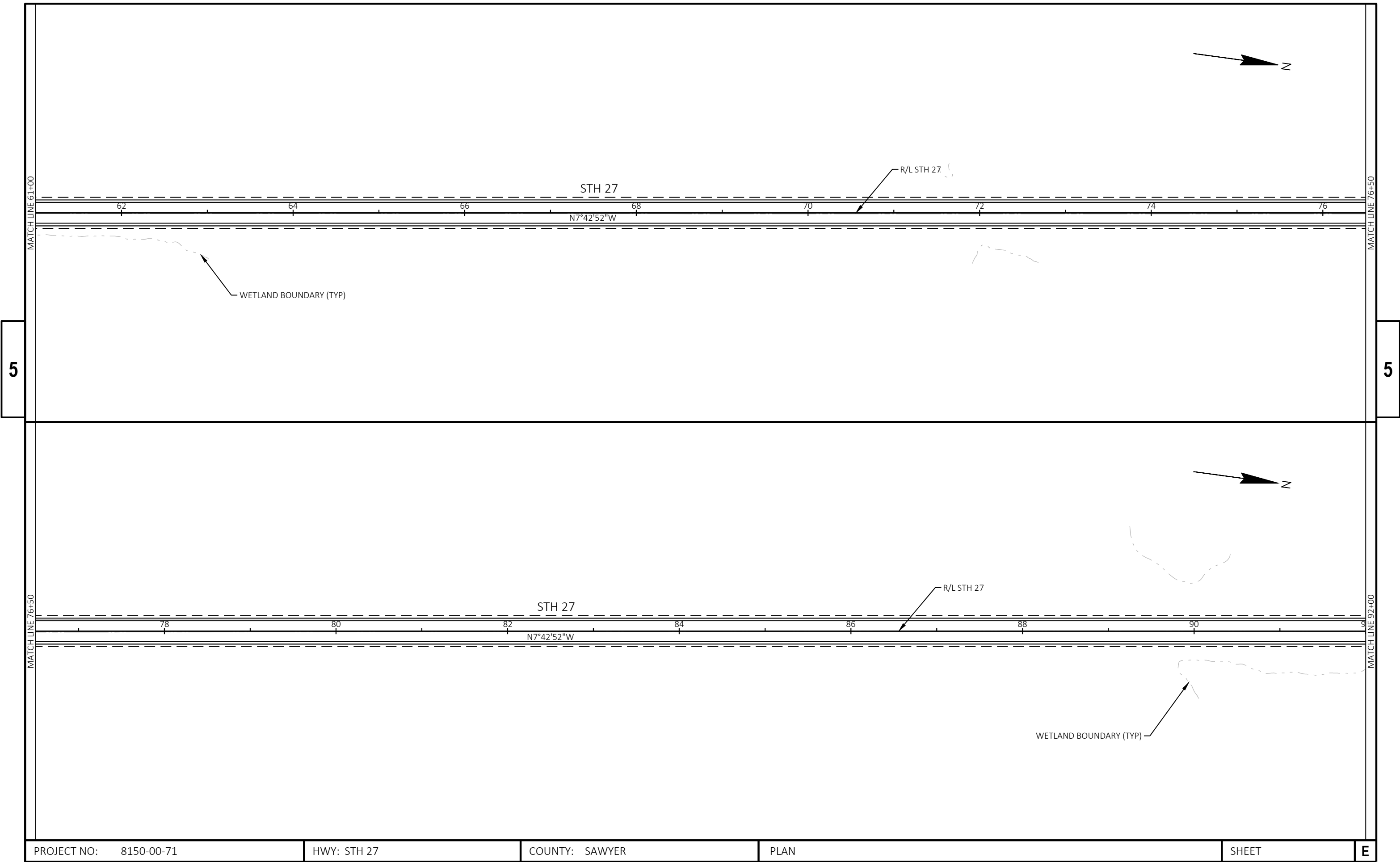
TYPICAL SECTION - FLAGGING OPERATION
NORTHBOUND AND SOUTHBOUND



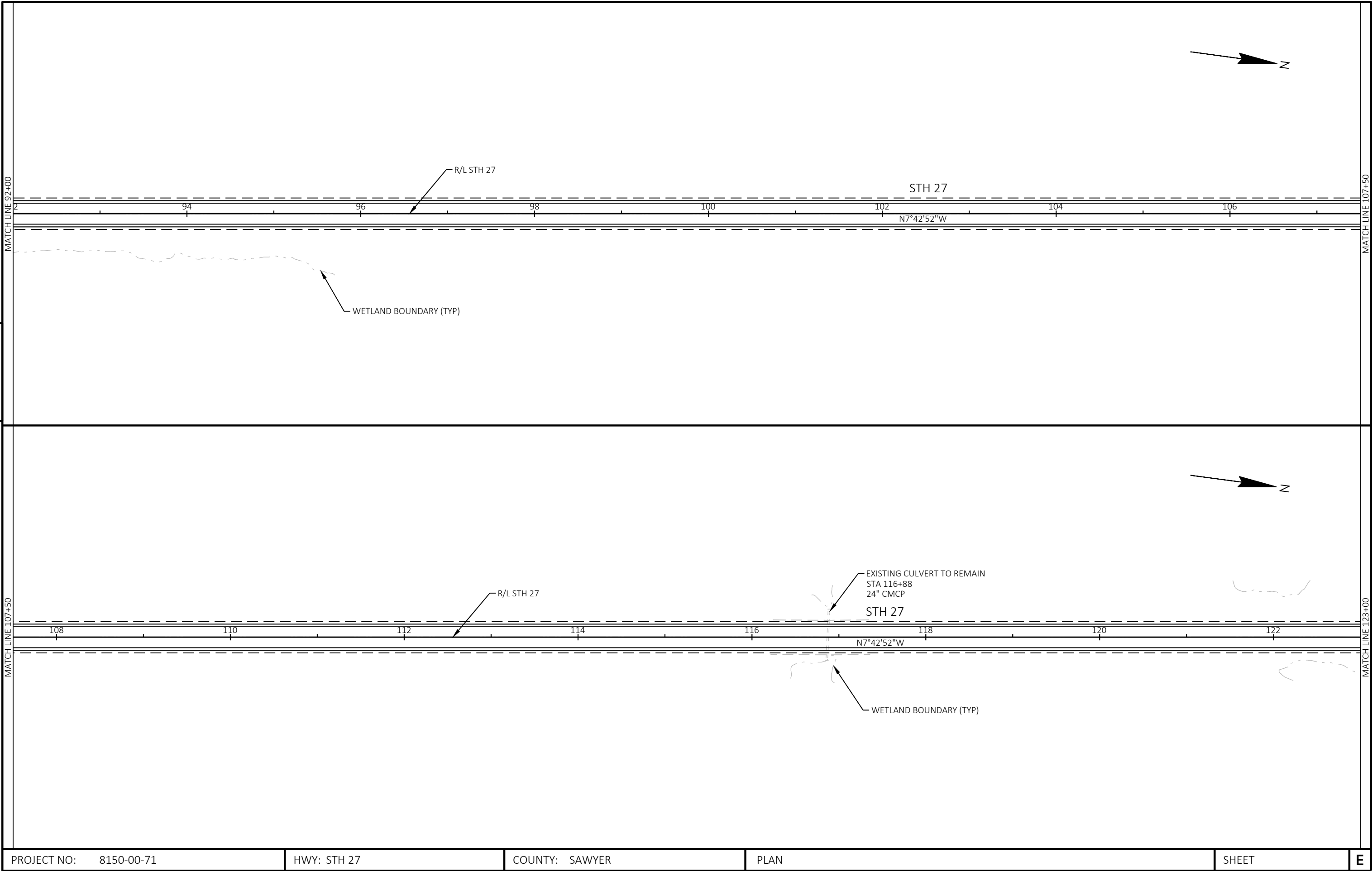
PROJECT NO: 8150-00-71	HWY: STH 27	COUNTY: SAWYER	PLAN	SHEET	E
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PROJECT NO: 8150-00-71	HWY: STH 27	COUNTY: SAWYER	PLAN	SHEET	E
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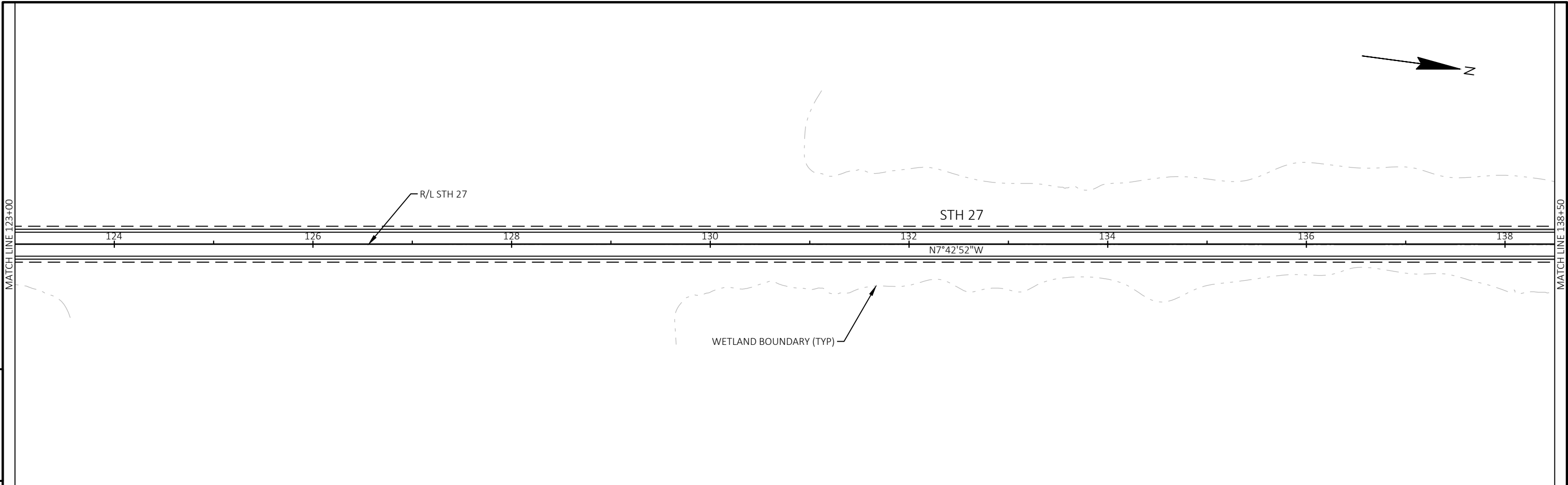


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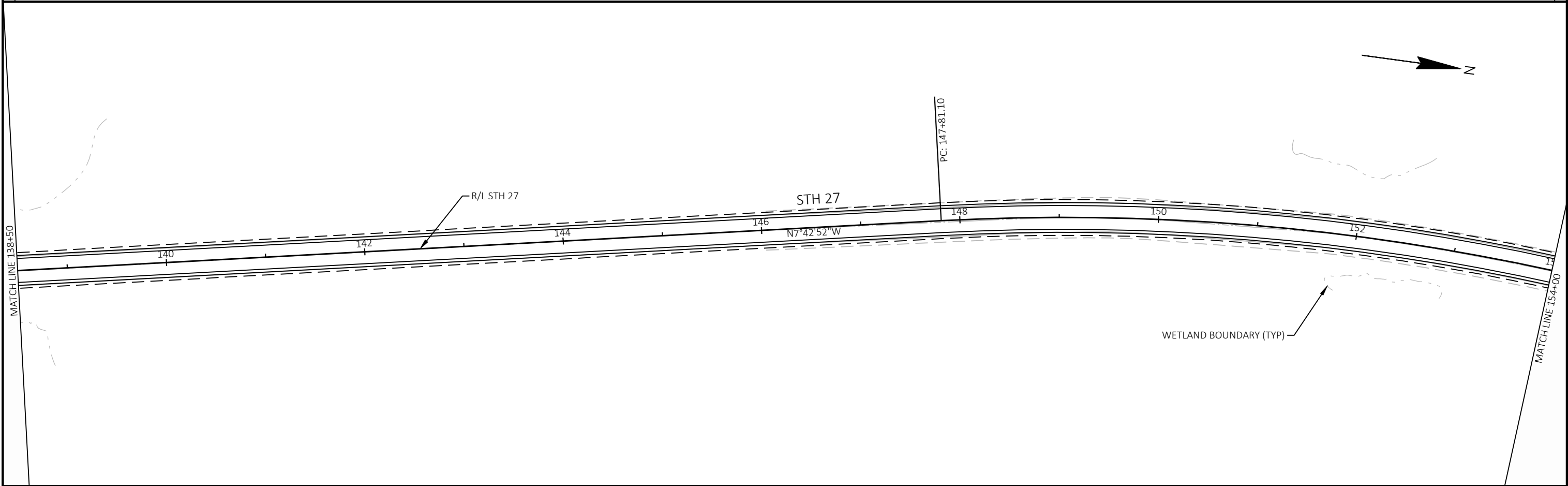


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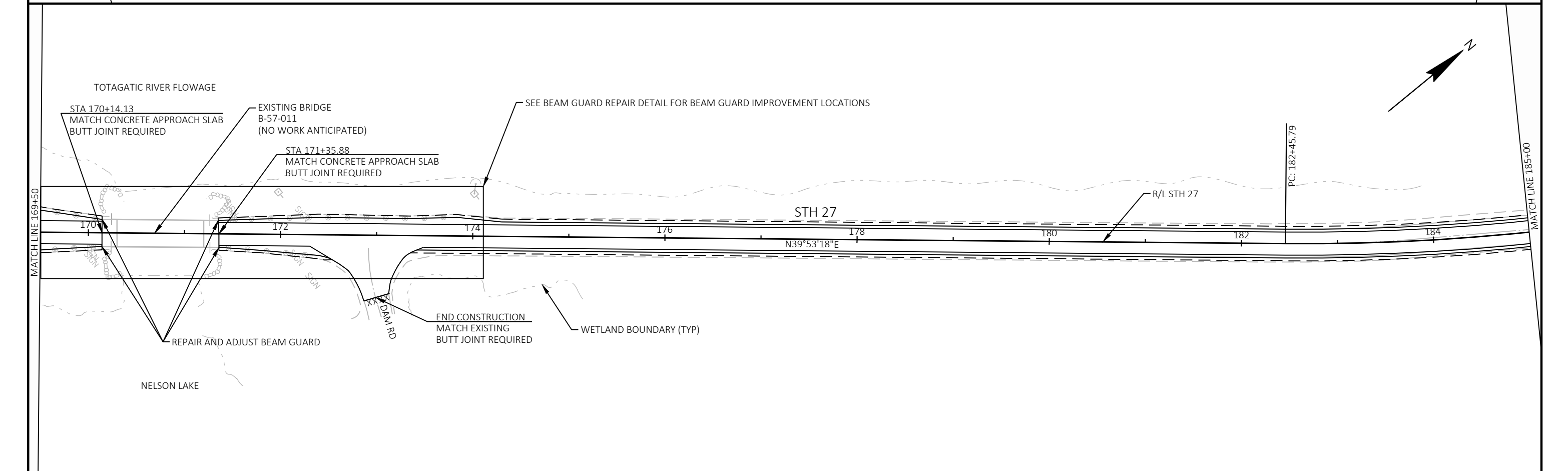
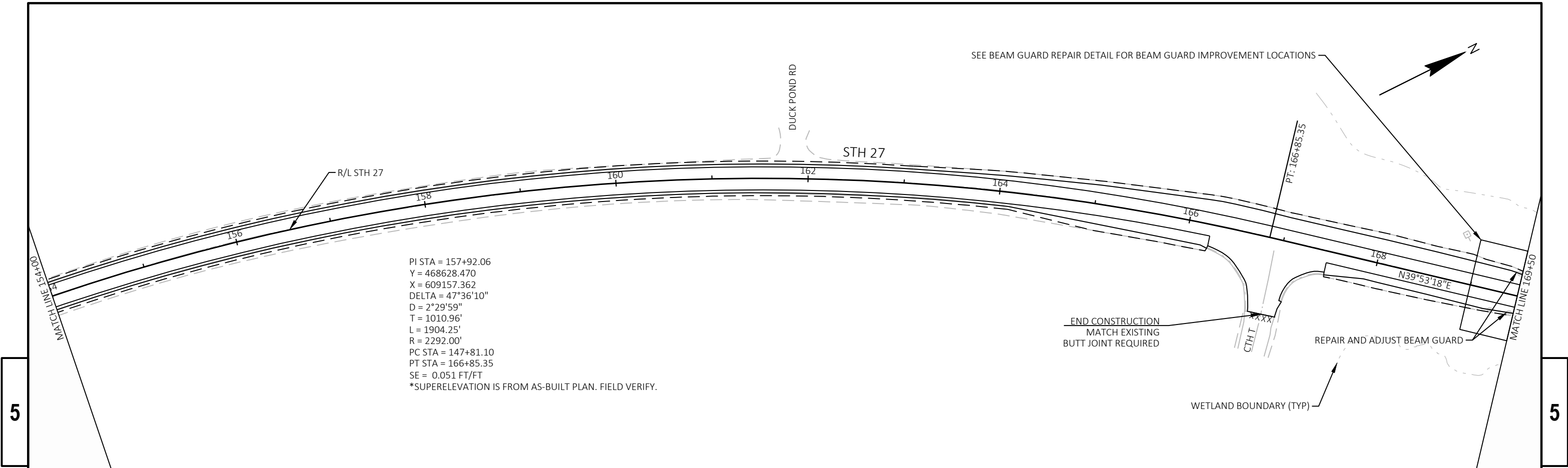
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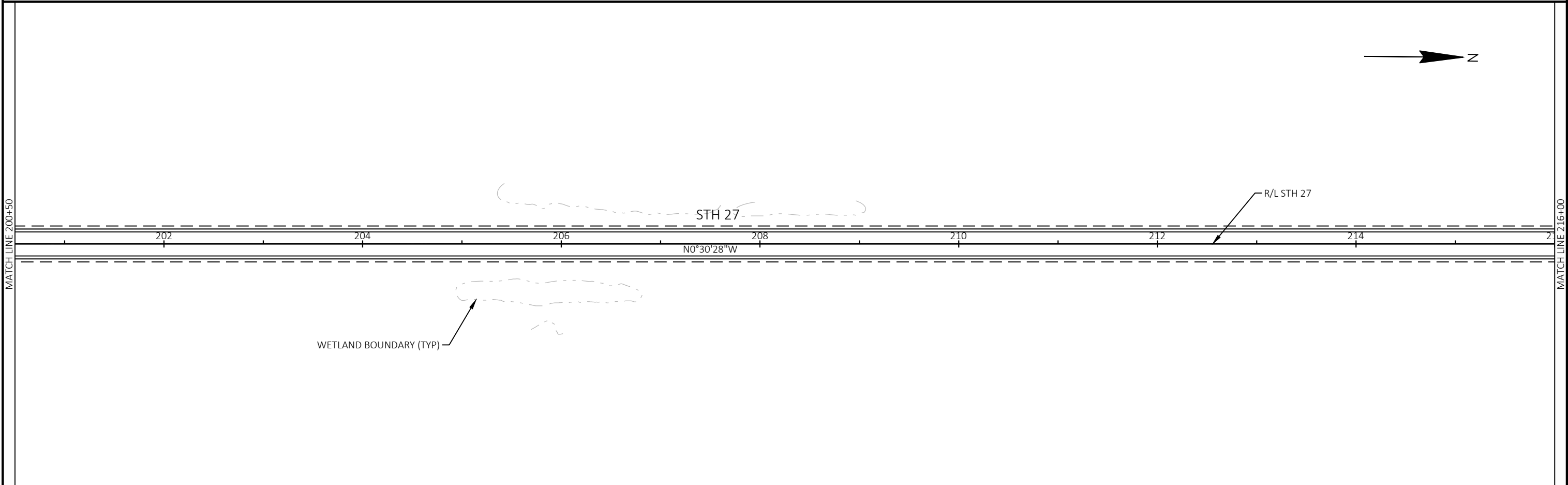
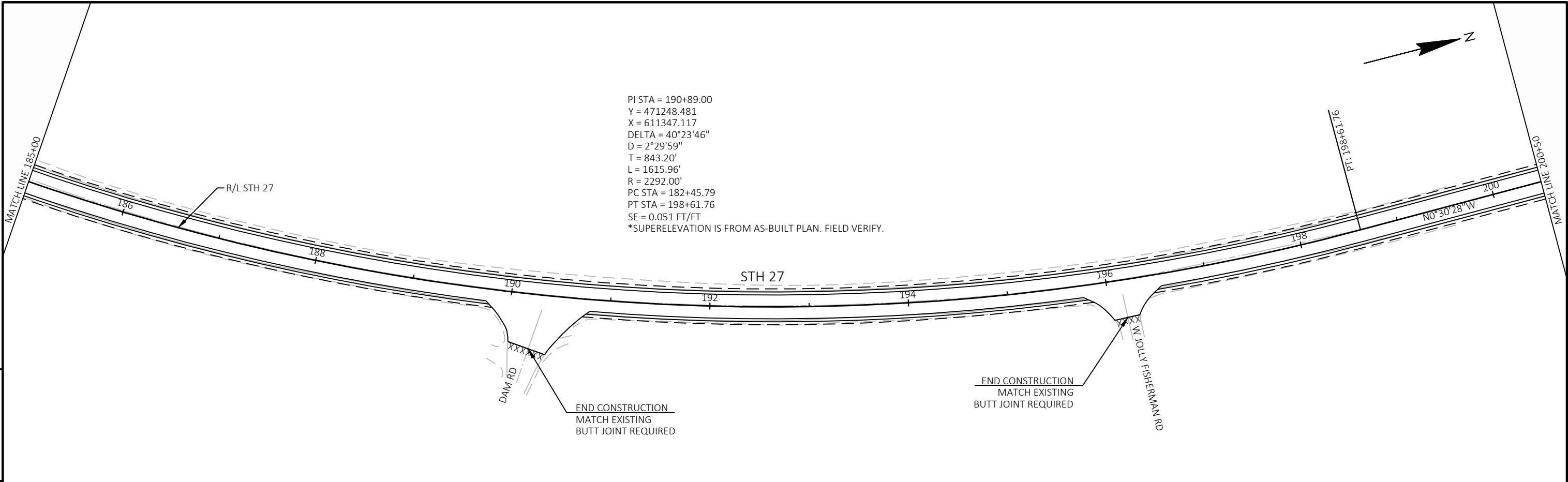
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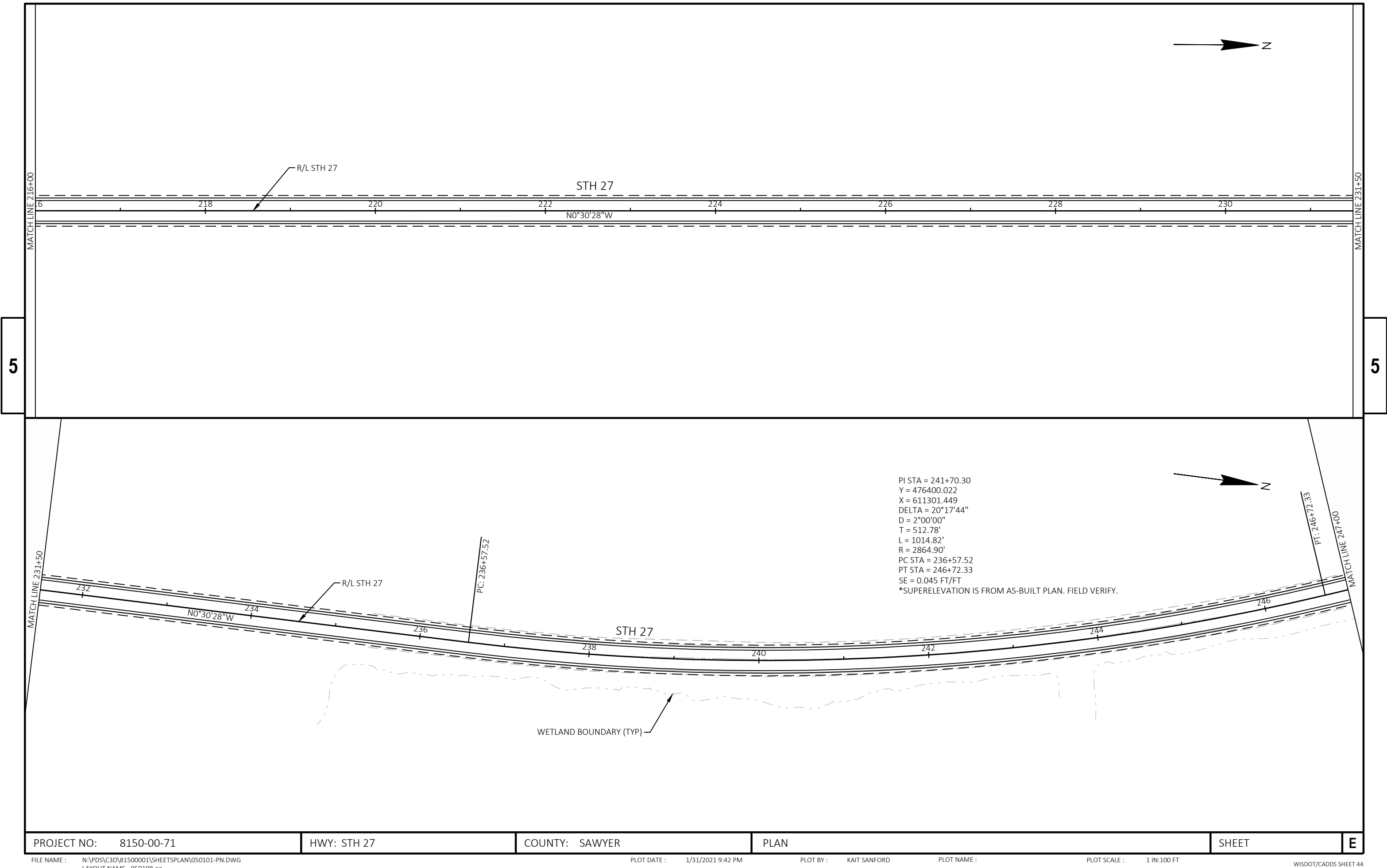
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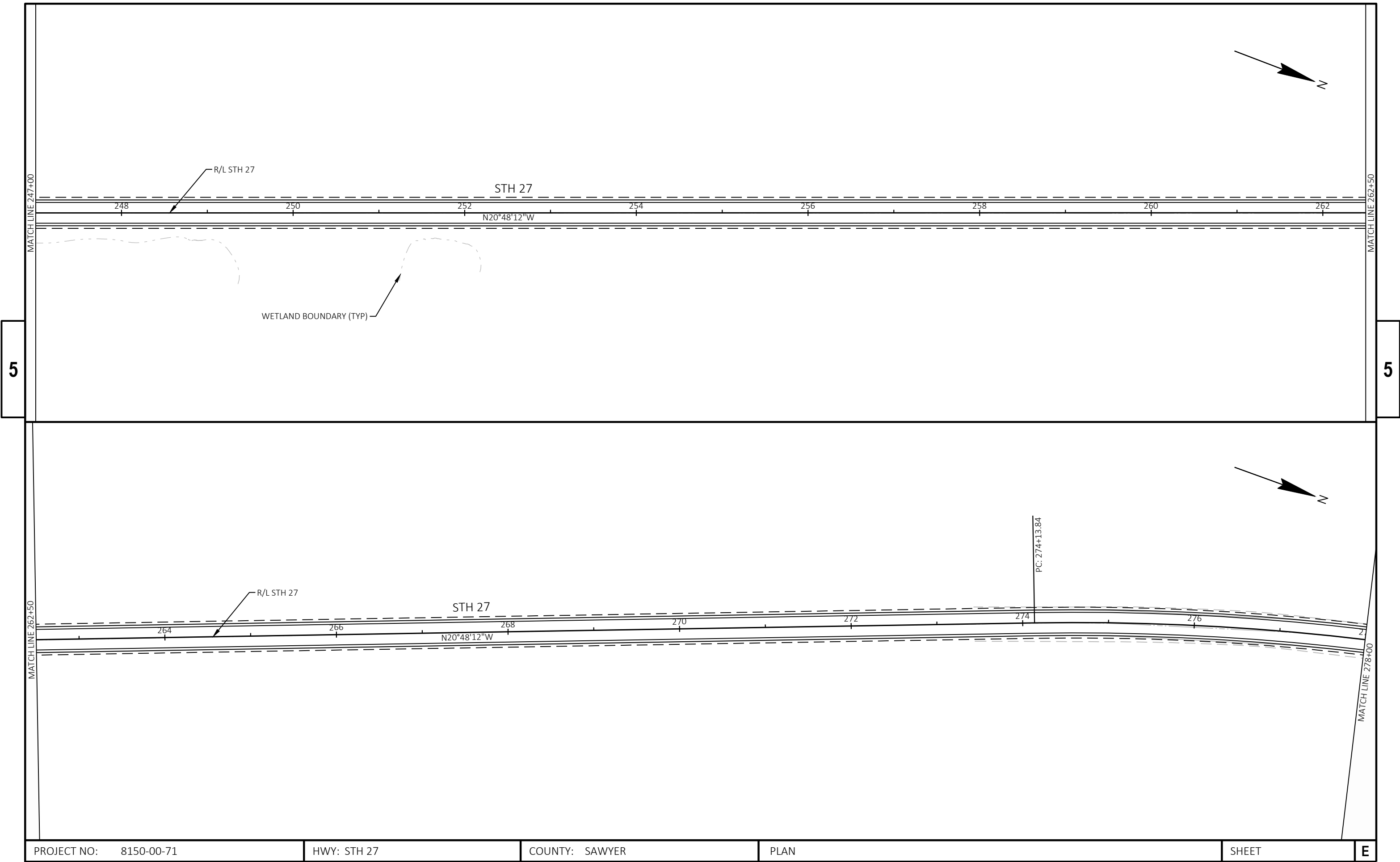


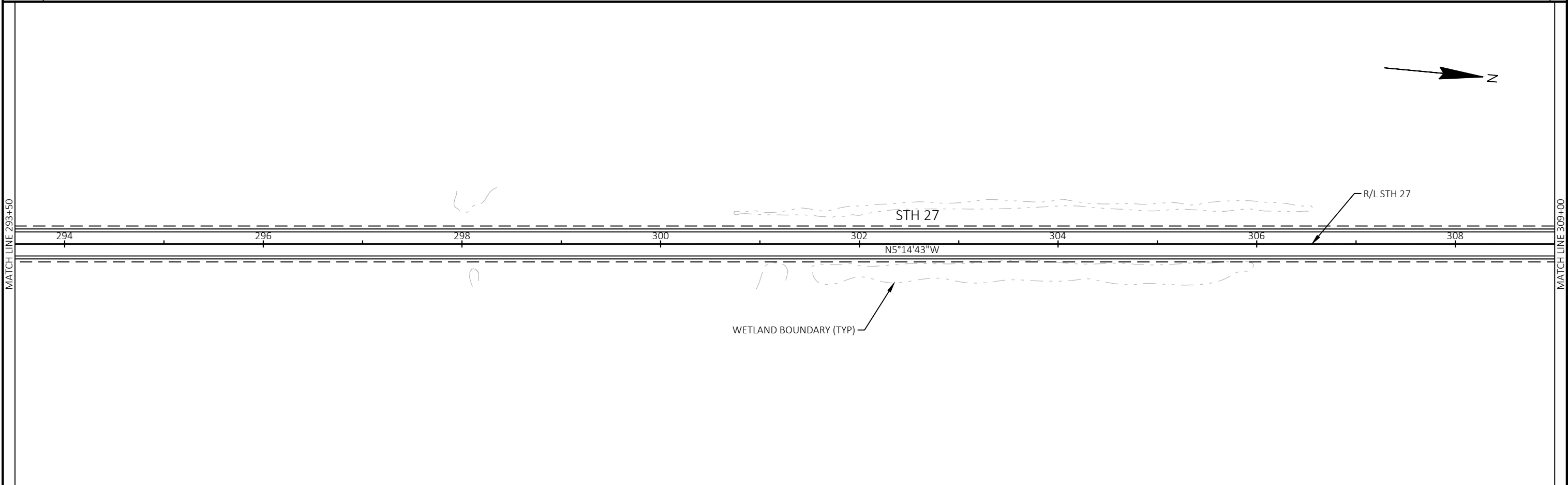
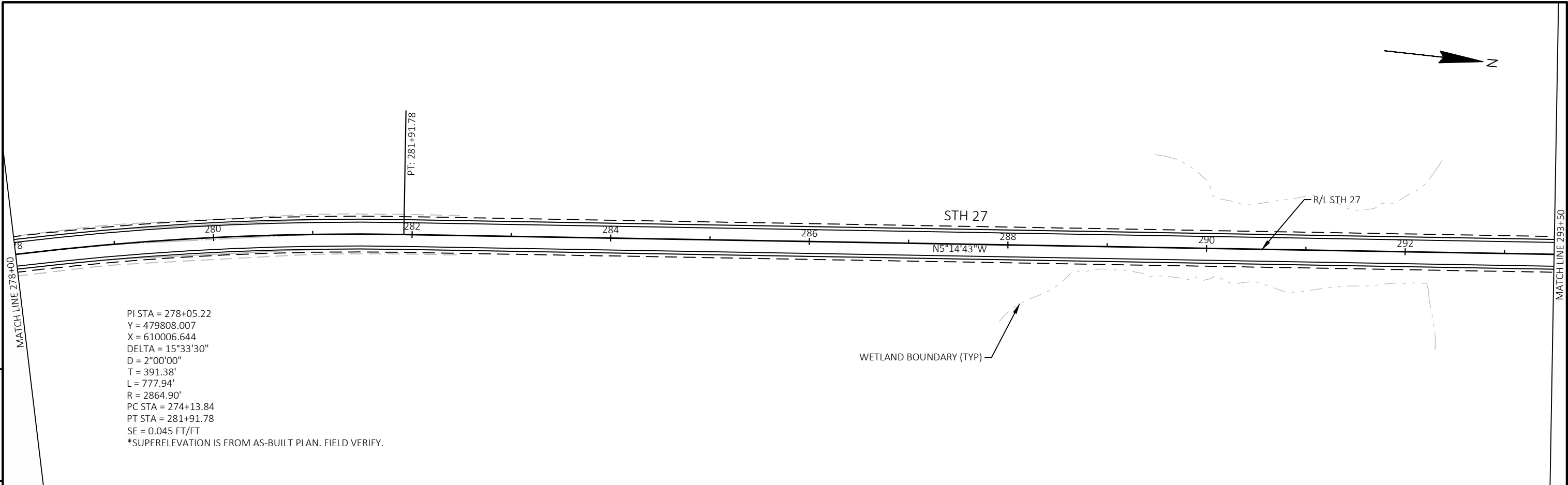
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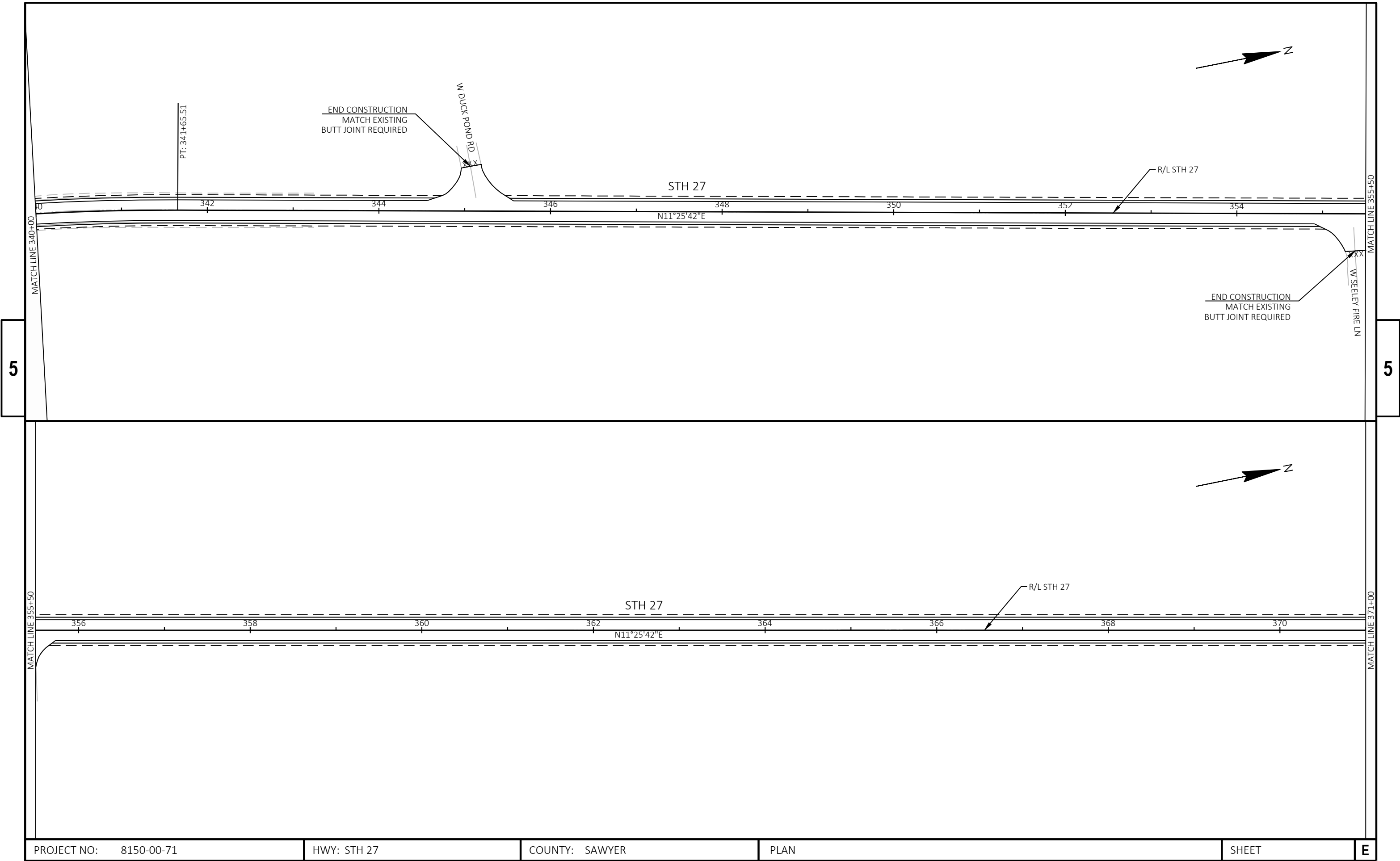
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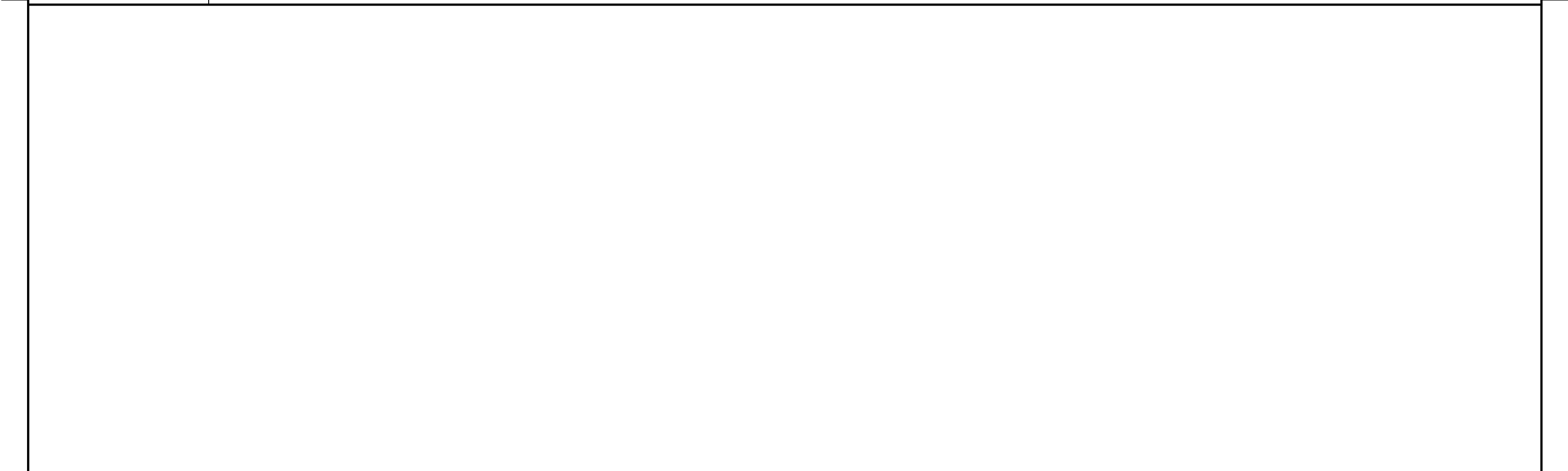
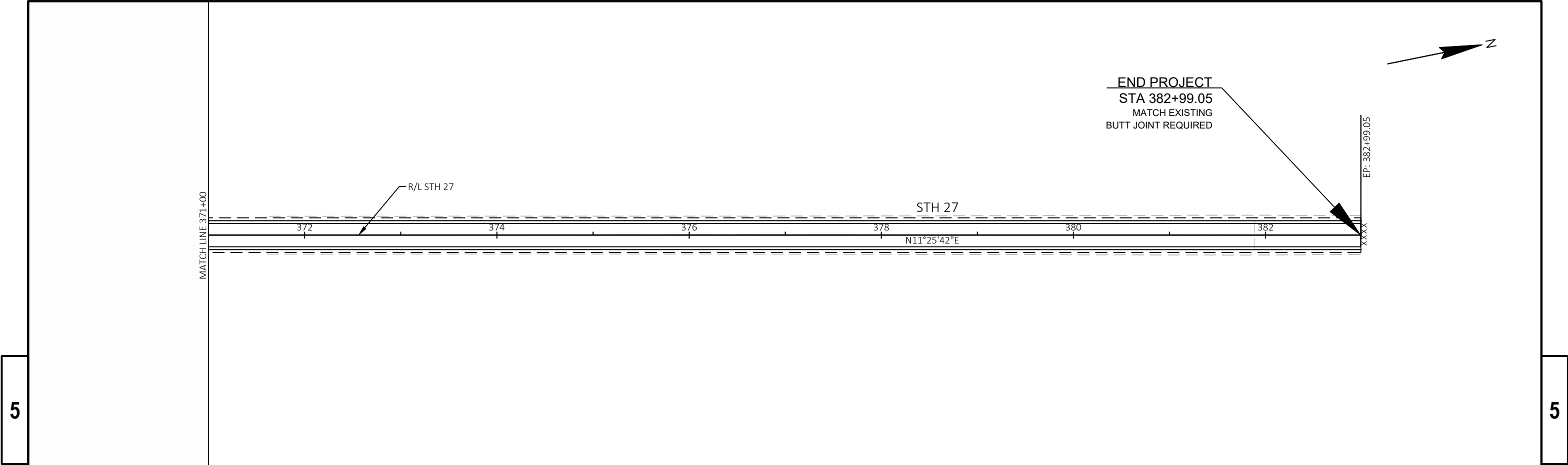




PROJECT NO: 8150-00-71	HWY: STH 27	COUNTY: SAWYER	PLAN	SHEET	E
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PROJECT NO: 8150-00-71	HWY: STH 27	COUNTY: SAWYER	PLAN	SHEET	E
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PROJECT NO: 8150-00-71	HWY: STH 27	COUNTY: SAWYER	PLAN	SHEET	E
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EPlans 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