

PROJECT ID: 1430-18-72

COUNTY: FOND DU LAC

WITH: 1430-18-73

ORDER OF SHEETS

Section No. 1	Title
Section No. 2	Typical Sections and Details
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	1430-18-72	1430-18-73
A.A.D.T. 2019	= 9000	13900
A.A.D.T. 2039	= 10200	15600
D.H.V. 2039	= 11.6%	11.6%
D.D.	= 60/40	60/40
T.	= 13.8%	13.8%
DESIGN SPEED	= 60 MPH	40 MPH
ESALS	= 2,400,000	2,400,000

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

STATE PROJECT	FEDERAL PROJECT	
	PROJECT	CONTRACT
1430-18-72		
1430-18-73		

PLEASE NOTE THE CHANGES ON THE SOUTH LEG OF ESTERBROOK RD, WRIGHTWAY DR, AND SIGNAL PLANS (TEMP AND PERMANENT) AT CTH VVV/ROLLING MEADOWS DR.

ROSENDALE - FOND DU LAC

TOWNLINEROAD-CTH VVV

STH 23

FOND DU LAC COUNTY

STATE PROJECT NUMBER
1430-18-72

ROSENDALE - FOND DU LAC

N ROLLING MEADOWS DR/CTH VVV INTER

STH 23

FOND DU LAC COUNTY

STATE PROJECT NUMBER
1430-18-73

TRANS 220 PROJECT PLAN
FOR
DESIGN OF UTILITY FACILITY
ALTERATIONS OR RELOCATIONS

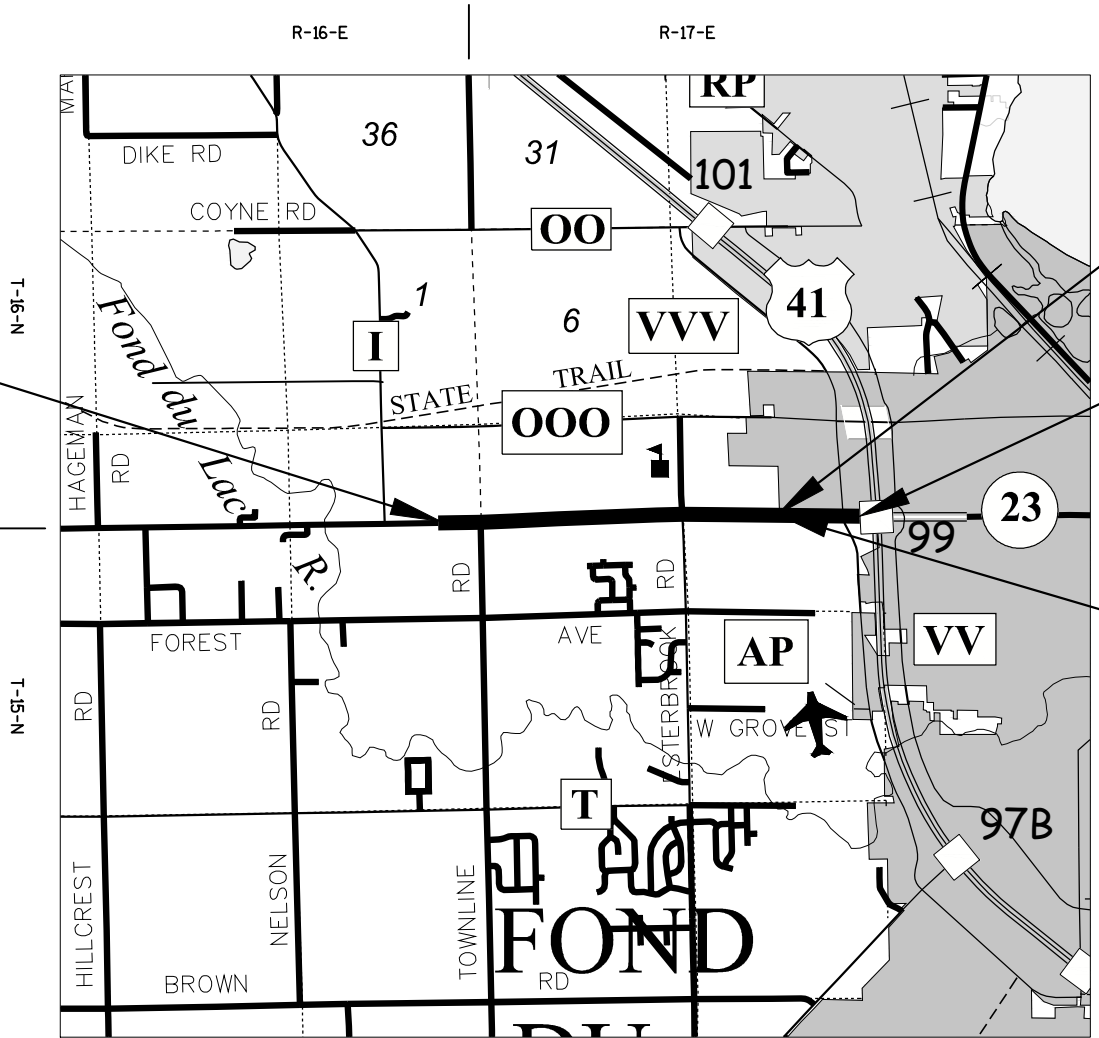
Date: 03/29/2018

BEGIN PROJECT 1430-18-72
STA 867+48
Y= 388,241.953
X= 795,726.529

END PROJECT 1430-18-72
STA 972+50

END PROJECT 1430-18-73
STA 980+35

BEGIN PROJECT 1430-18-73
STA 972+50
Y= 388,224.349
X= 806,224.779



LAYOUT
SCALE 0 1 MILE
TOTAL NET LENGTH OF CENTERLINE = 1.944 MI

HORIZONTAL POSITIONS SHOWN ON THIS PLAN ARE WISCONSIN COUNTY COORDINATES, FOND DU LAC COUNTY, NAD83 (2011), VERTICAL - NAVD88 (2012) IN U.S. SURVEY FEET. VALUES ARE GRID COORDINATES, GRID BEARINGS, AND GRID DISTANCES. GRID DISTANCES MAY BE USED AS GROUND DISTANCES.

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION	
PREPARED BY	
Surveyor	NER
Designer	JENNIFER ZAVADA
Project Manager	BRYAN LEARST
Regional Examiner	
Regional Supervisor	ROBERT WAGNER
APPROVED FOR THE DEPARTMENT	
DATE:	

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GENERAL NOTES

LOCATIONS OF UNDERGROUND UTILITIES AS SHOWN ON THE PLANS ARE APPROXIMATE, THERE MAY BE OTHER UTILITY INSTALLATIONS WITHIN THE PROJECT AREA THAT ARE NOT SHOWN.

TOPSOIL, FERTILIZER, SEED AND EROSION MAT AS SHOWN IN PLANS OR AS DIRECTED BY ENGINEER SHALL BE PLACED ON ALL DISTURBED AREAS, EXCLUSIVE OF THE AREA OCCUPIED BY THE NEW PAVEMENTS, SIDEWALKS, ENTRANCES, AND RELATED STRUCTURES.

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

ALL CONCRETE BASE PATCHING LOCATIONS ARE APPROXIMATE. THE EXACT LOCATIONS OF CONCRETE BASE PATCHING SHALL BE DETERMINED BY THE ENGINEER IN THE FIELD.



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

EMERGENCY CONTACT NUMBERS FOR WISCONSIN POWER AND LIGHT COMPANY

ELECTRIC 24 HOUR EMERGENCY SERVICE: 1-800-862-6261
GAS 24 HOUR EMERGENCY SERVICE: 1-800-862-6263

EMERGENCY CONTACT NUMBERS FOR WISCONSIN PUBLIC SERVICE

ELECTRIC 24 HOUR EMERGENCY SERVICE: 1-800-450-7240
GAS 24 HOUR EMERGENCY SERVICE: 1-800-450-7280

EMERGENCY CONTACT NUMBERS FOR WE ENERGIES

ELECTRIC 24 HOUR EMERGENCY SERVICE: 1-800-662-4797
GAS 24 HOUR EMERGENCY SERVICE: 1-800-261-5325

UTILITY CONTACTS

LAWRENCE HUBER
ANR PIPELINE CO - GAS/PETROLEUM
W3925 PIPELINE LN
EDEN, WI 53019
(920)477-2235
LAWRENCE.HUBER@TRANSCANADA.COM

CHUCK BARTELT
AT&T WISCONSIN - COMMUNICATION LINE
70 E DIVISION ST
FOND DU LAC, WI 54935
920-410-5104
CB1461@ATT.COM

GERALD RHODE
ATC MANAGEMENT, INC. - ELECTRICITY-TRANSMISSION
801 OKEEFE ROAD
DE PERE, WI 54115
920-338-6523
GRHODE@ATCLLC.COM

TIM KROEZE
CENTURYLINK - COMMUNICATION LINE
19 W FOND DU LAC ST
RIPON, WI 54971
920-219-0112

TIM.KROEZE@CENTURYLINK.COM
GRAYNE SKIBO
ALLIANT ENERGY -ELECTRICITY & GAS
883 W. SCOTT ST.
FOND DU LAC, WI 54937
920-948-4054
GRAYNESKIBO@ALLIANTENERGY.COM

TODD HILDEBRANDT
CHARTER COMMUNICATIONS - COMMUNICATION LINE
165 KNIGHTS WAY
FOND DU LAC, WI 54935
920-794-4946
TODD.HILDEBRANDT@CHARTER.COM

DNR LIASION

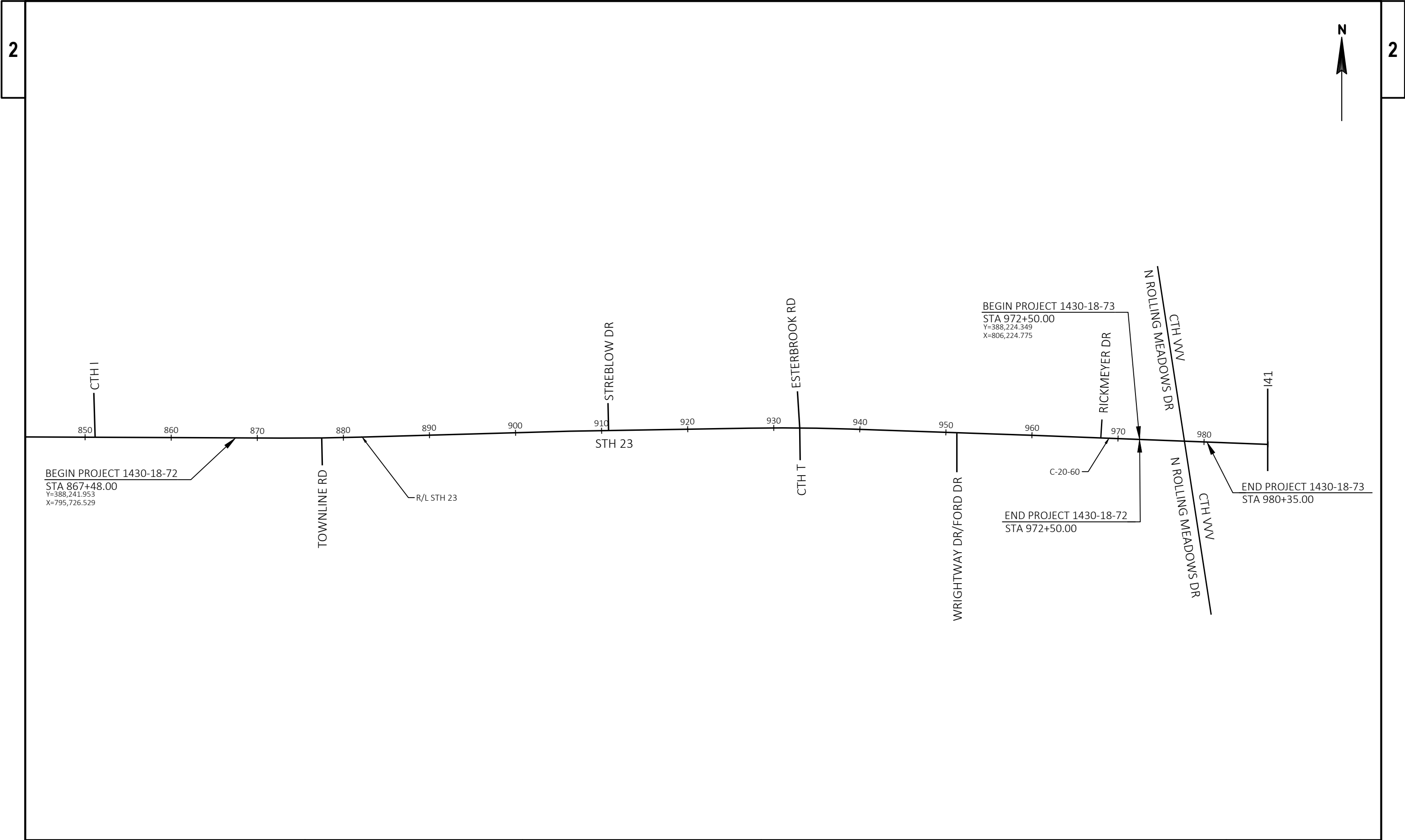
JAY SCHIEFELBEIN
DEPARTMENT OF NATURAL RESOURCES
NORTHEAST REGION
2984 SHAWANO AVE
GREEN BAY, WI 54313-6727
(920)360-3784
JEREMIAH.SCHLEFELBEIN@WISCONSIN.GOV

FOND DU LAC COUNTY COMMISSIONER

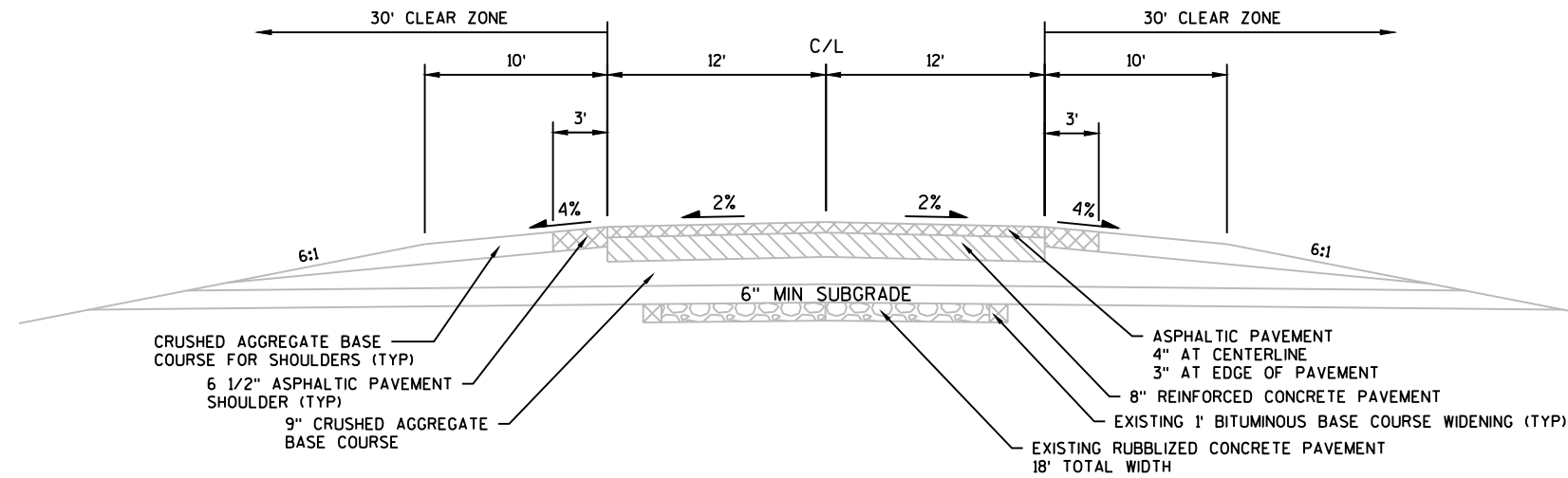
TOM JANKE
HIGHWAY COMMISSIONER
301 DIXIE STREET
FOND DU LAC, WI 54935
(920)929-3488
TOM.JANKE@FDLCO.WI.US

NE REGION SURVEY COORDINATOR

CORMAC MCINNIS, RLS
944 VANDERPERREN WAY
GREEN BAY, WI 54304
(920)492-5638
CORMAC.MCINNIS@DOT.WI.GOV

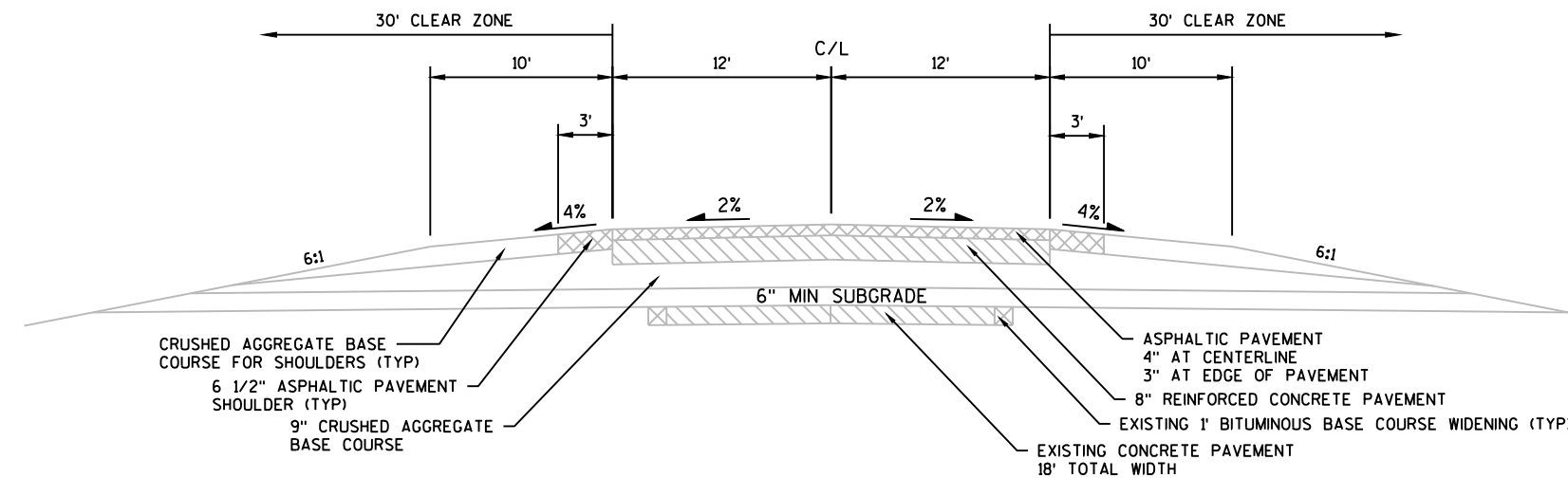


PROJECT NO: 1430-18-72/73	HWY: STH 23	COUNTY: FOND DU LAC	PROJECT OVERVIEW	SHEET	E
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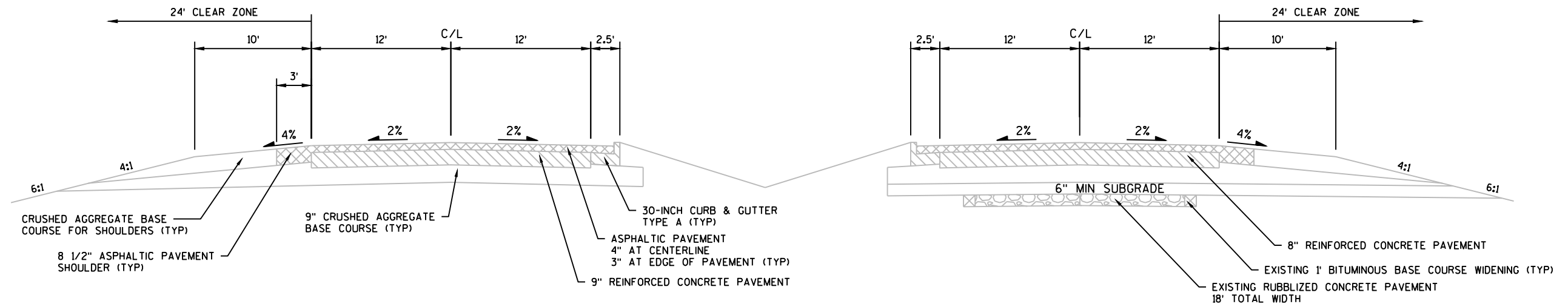
TYPICAL EXISTING CROSS SECTION FOR STH 23

STA 867+48 - STA 880+78
STA 885+78 - STA 961+42

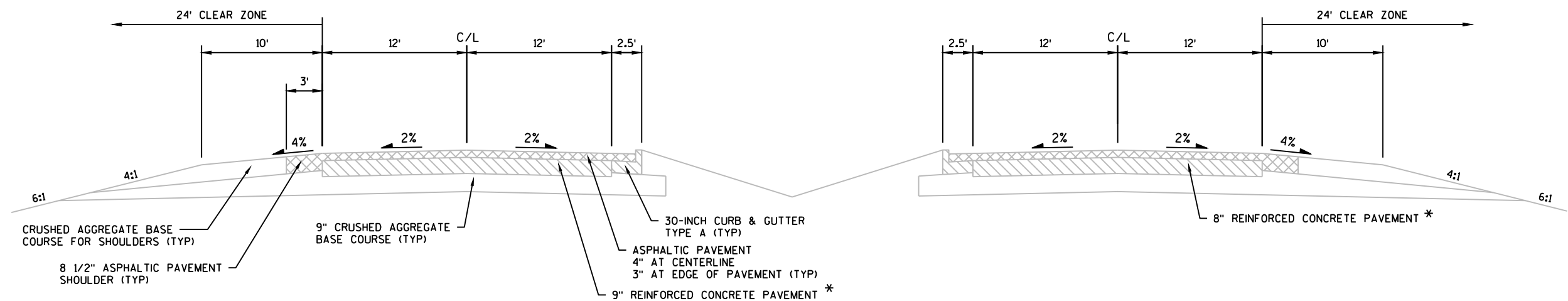


TYPICAL EXISTING CROSS SECTION FOR STH 23

STA 880+78 - STA 885+78



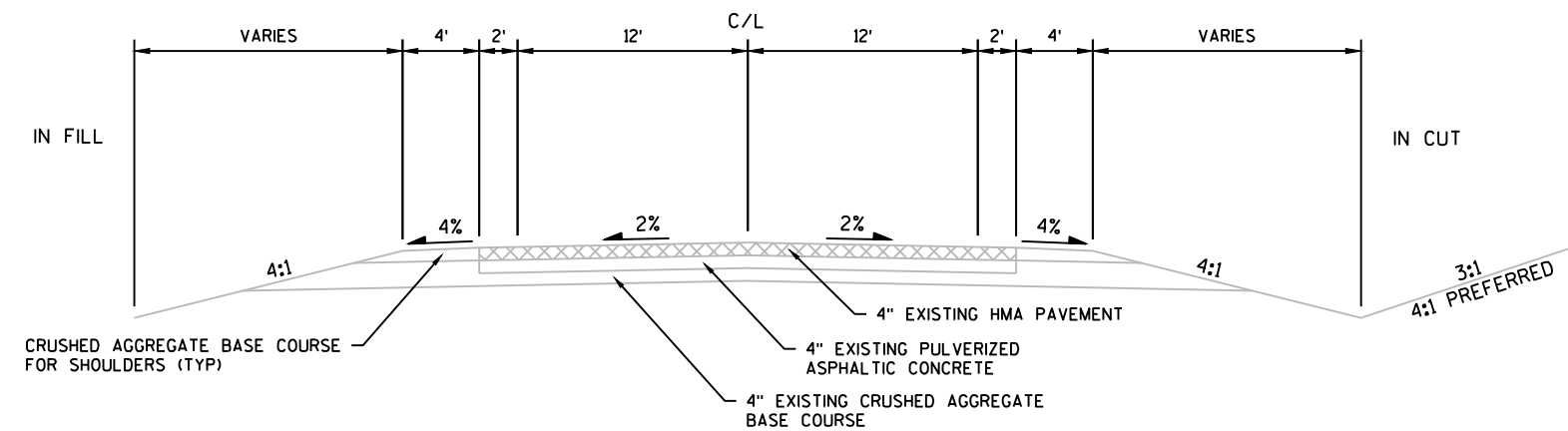
TYPICAL EXISTING CROSS SECTION FOR STH 23
STA 961+42 - STA 976+20



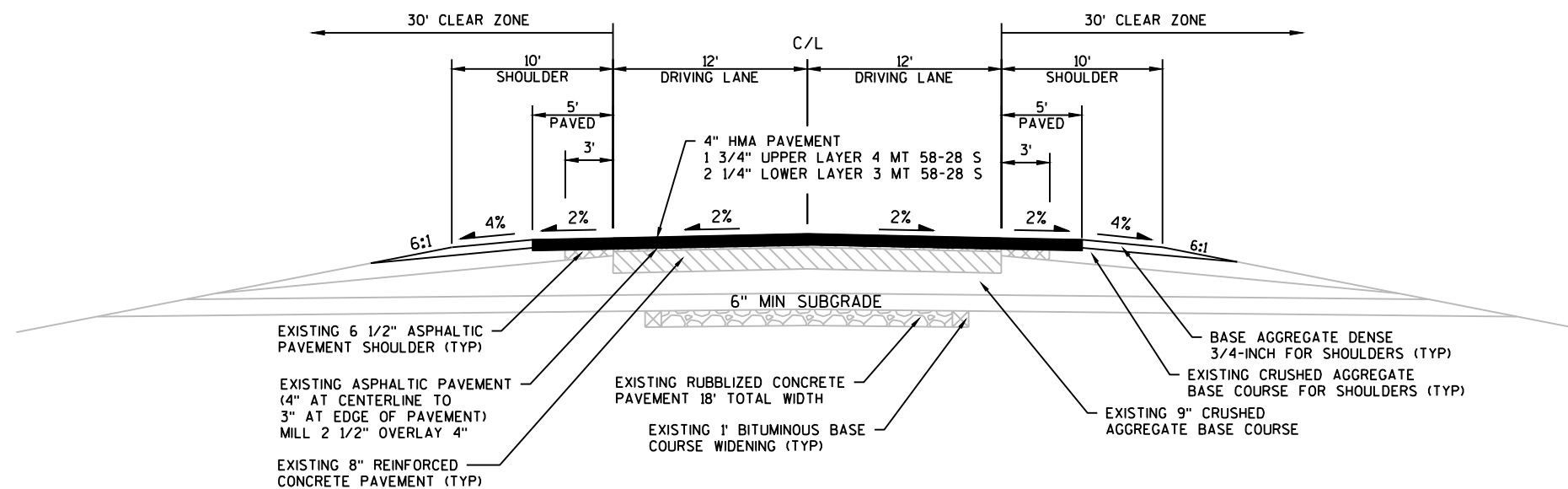
TYPICAL EXISTING CROSS SECTION FOR STH 23
STA 976+20 - STA 980+35

NOTE:

*STA 976+75 TO STA 978+00 8" HMA
OVER CRUSHED AGGREGATE BASE COURSE
@ CTH VVV INTERSECTION

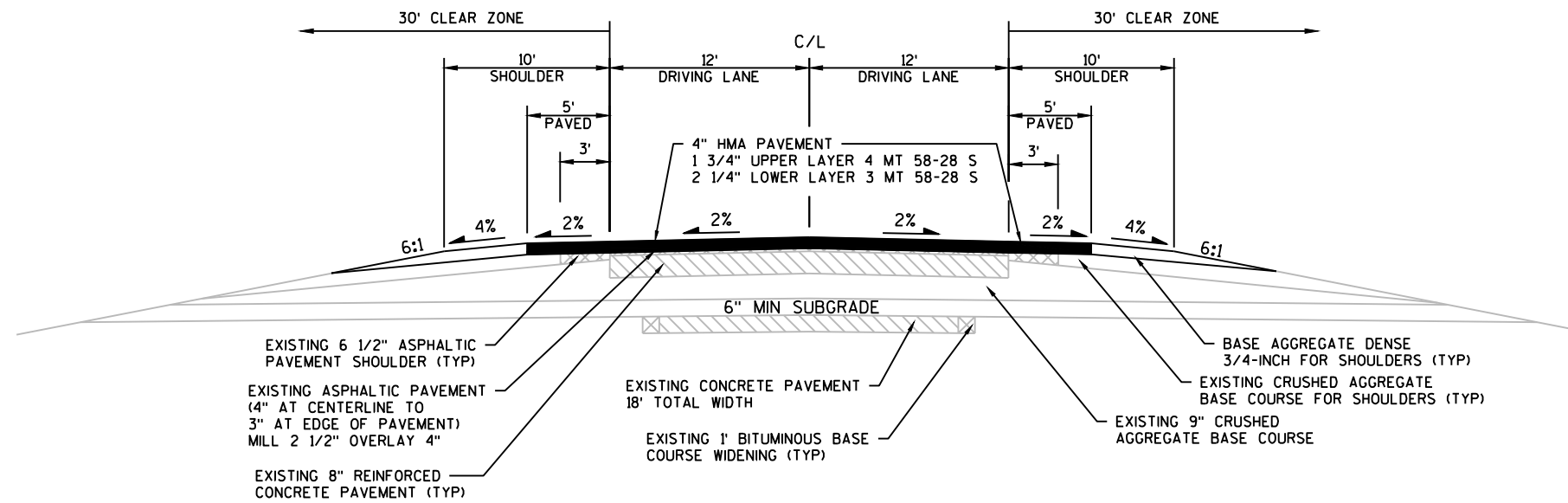


TYPICAL EXISTING CROSS SECTION FOR CTH T

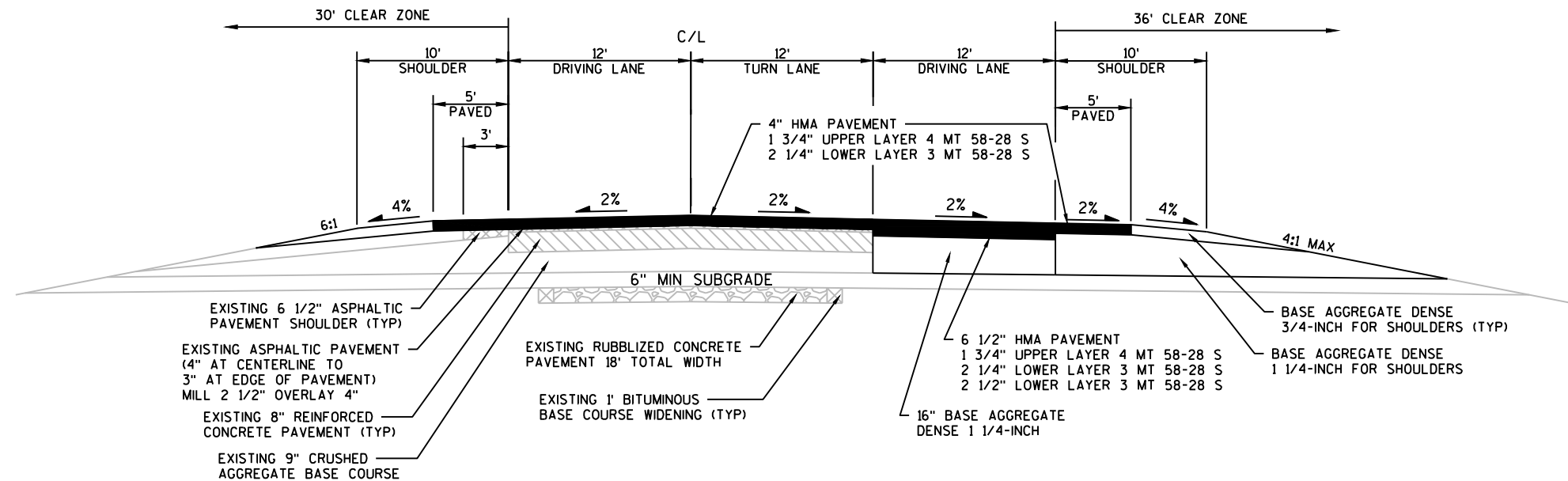


TYPICAL PROPOSED CROSS SECTION FOR STH 23

STA 867+48 - STA 880+78
STA 885+78 - STA 921+25
STA 945+00 - STA 961+42



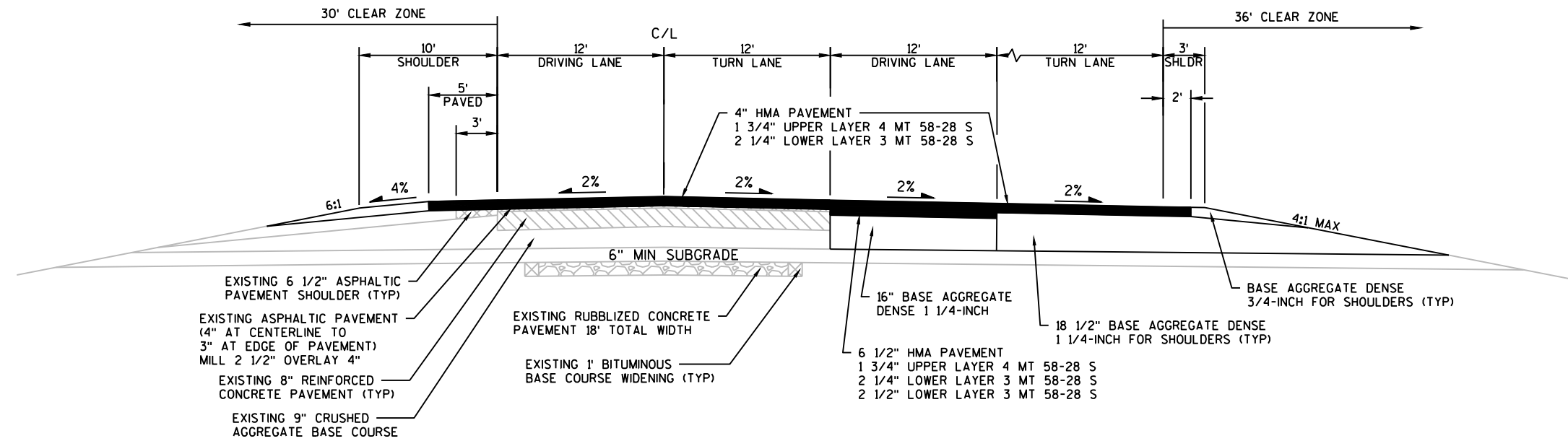
TYPICAL PROPOSED CROSS SECTION FOR STH 23
STA 880+78 - STA 885+78



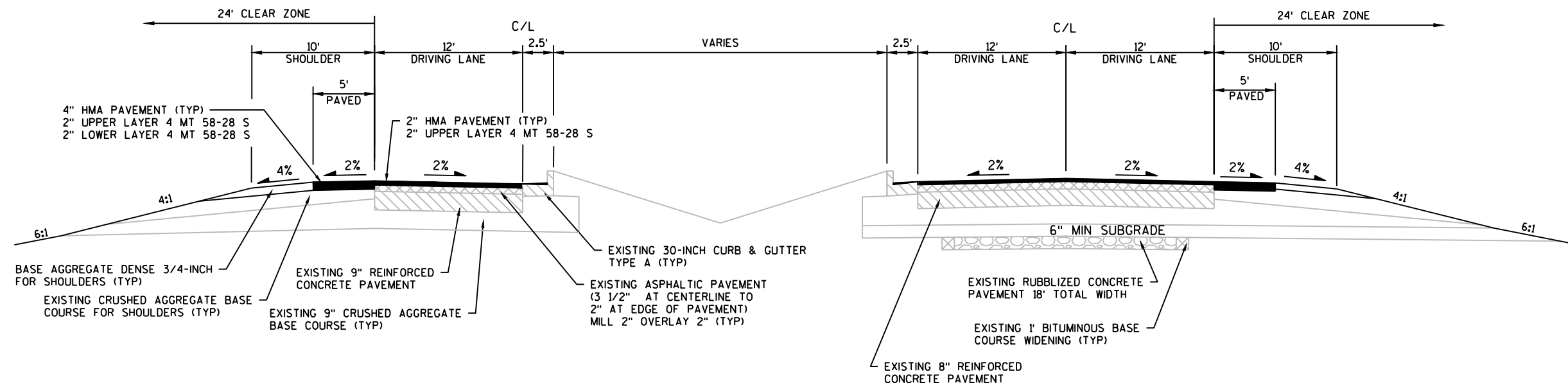
TYPICAL PROPOSED CROSS SECTION FOR STH 23
STA 921+25 - STA 925+25
STA 930+25 - STA 945+00

2

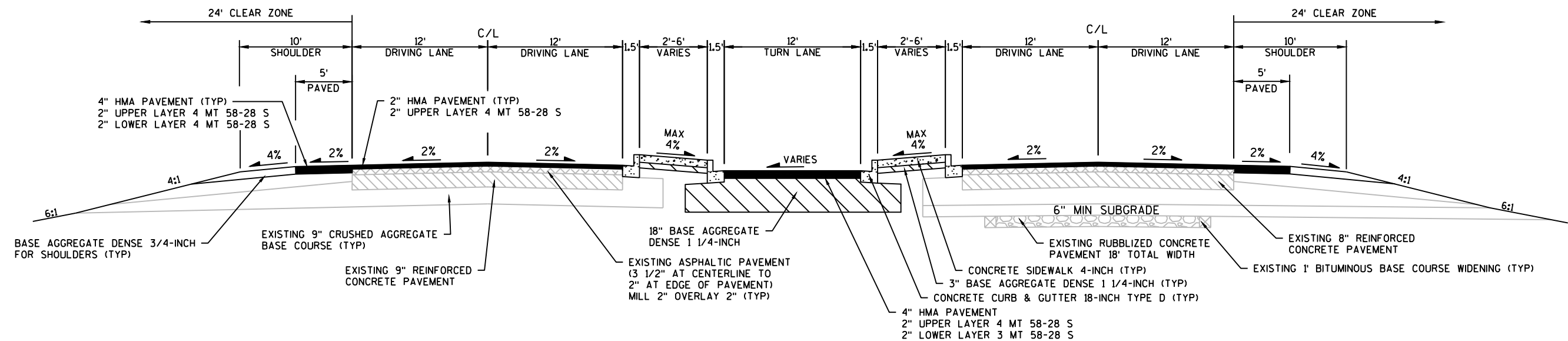
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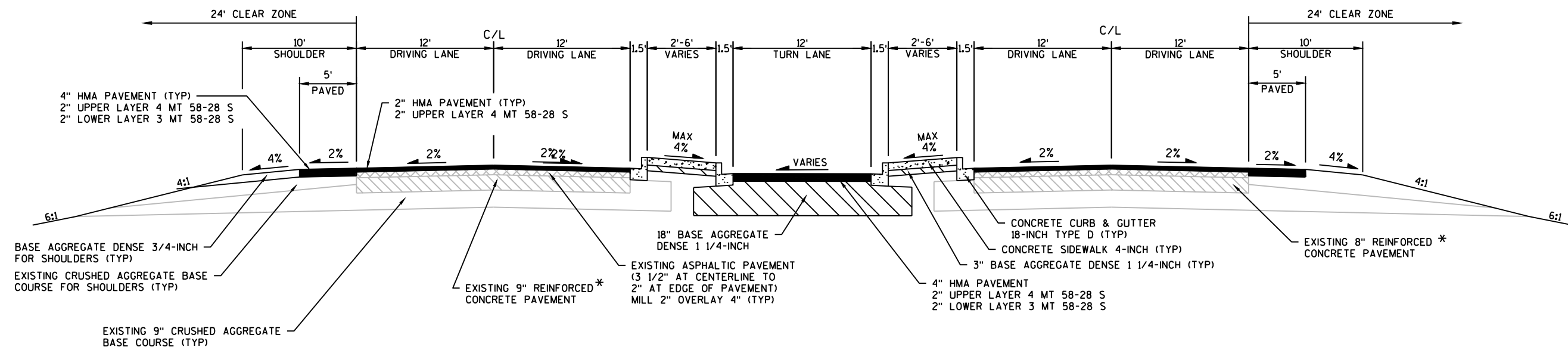
TYPICAL PROPOSED CROSS SECTION FOR STH 23
STA 925+25 - STA 930+25



TYPICAL PROPOSED CROSS SECTION FOR STH 23
STA 961+42 - STA 972+50



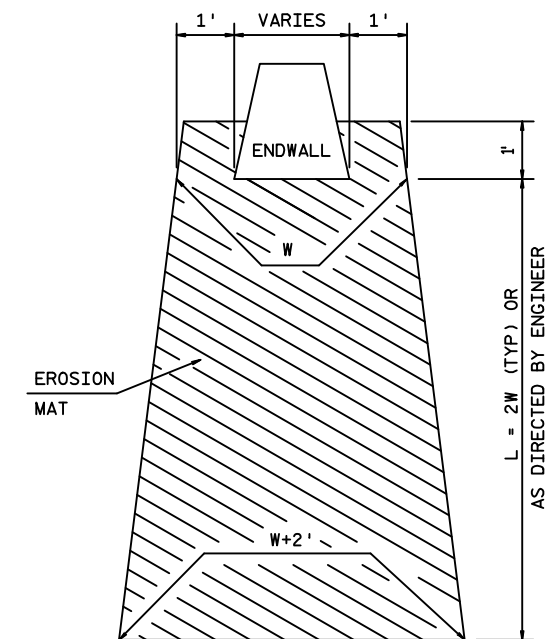
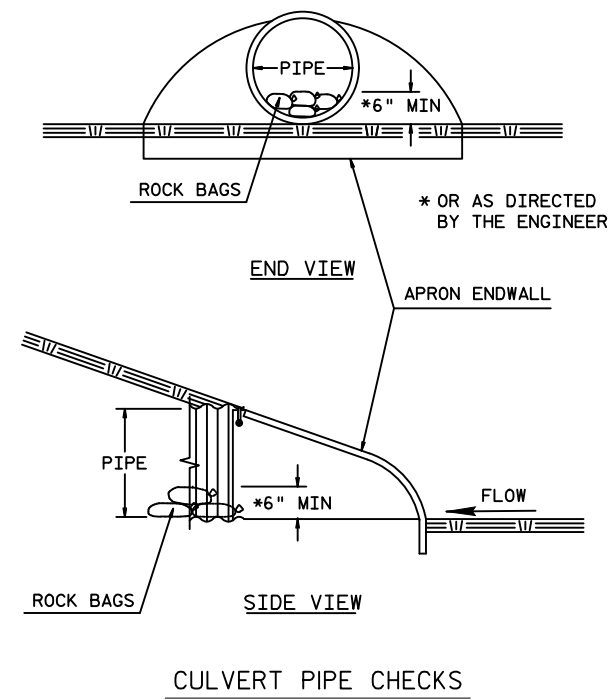
TYPICAL PROPOSED CROSS SECTION FOR STH 23
STA 972+50 - STA 976+20



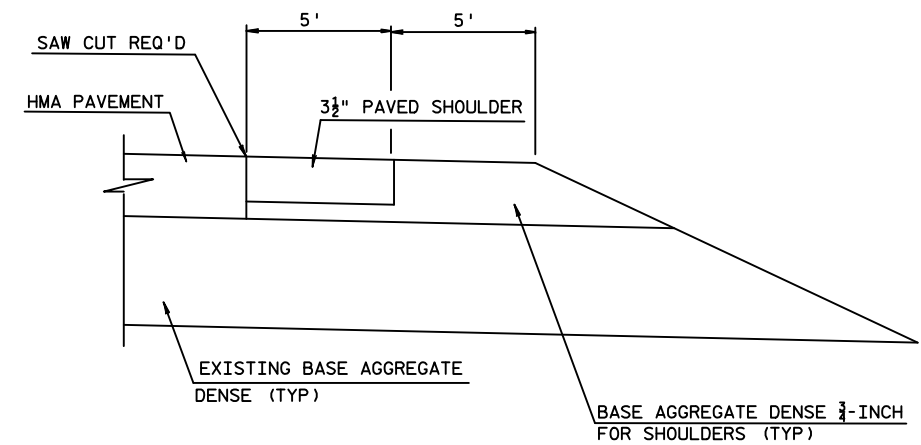
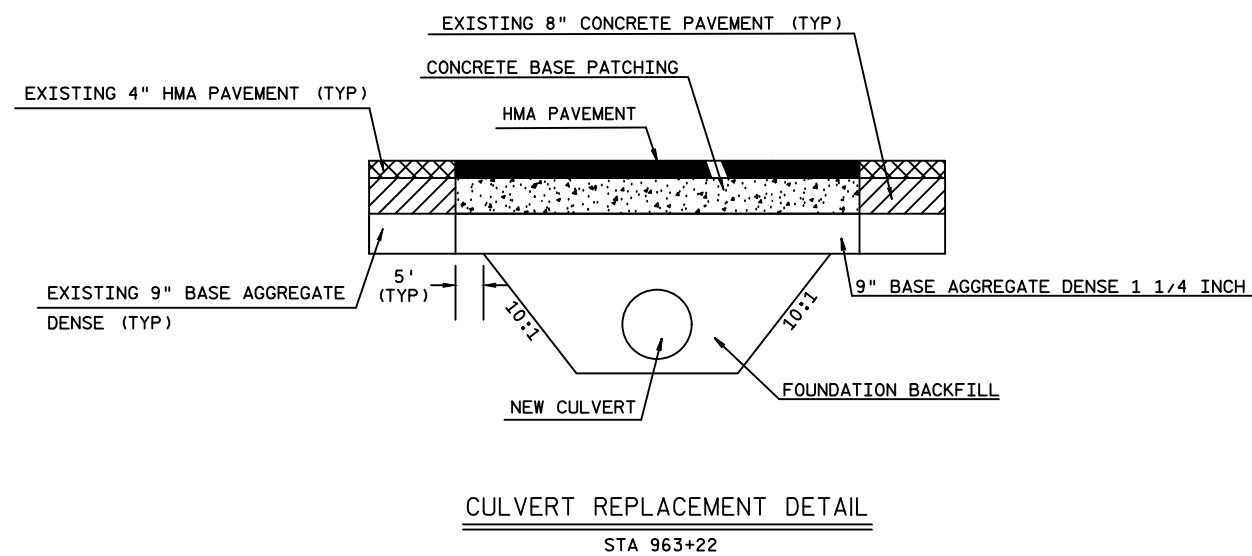
TYPICAL PROPOSED CROSS SECTION FOR STH 23
STA 976+20 - STA 980+35

NOTE:

*STA 976+75 TO STA 978+00 8" HMA
OVER CRUSHED AGGREGATE BASE COURSE
@ CTH VVV INTERSECTION

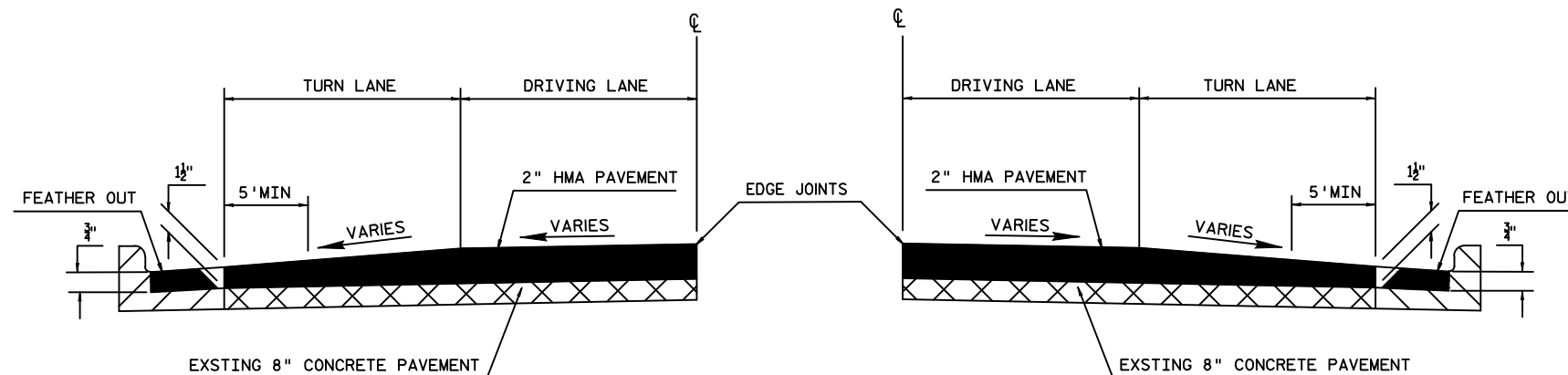


EROSION MAT TREATMENT AT CULVERTS

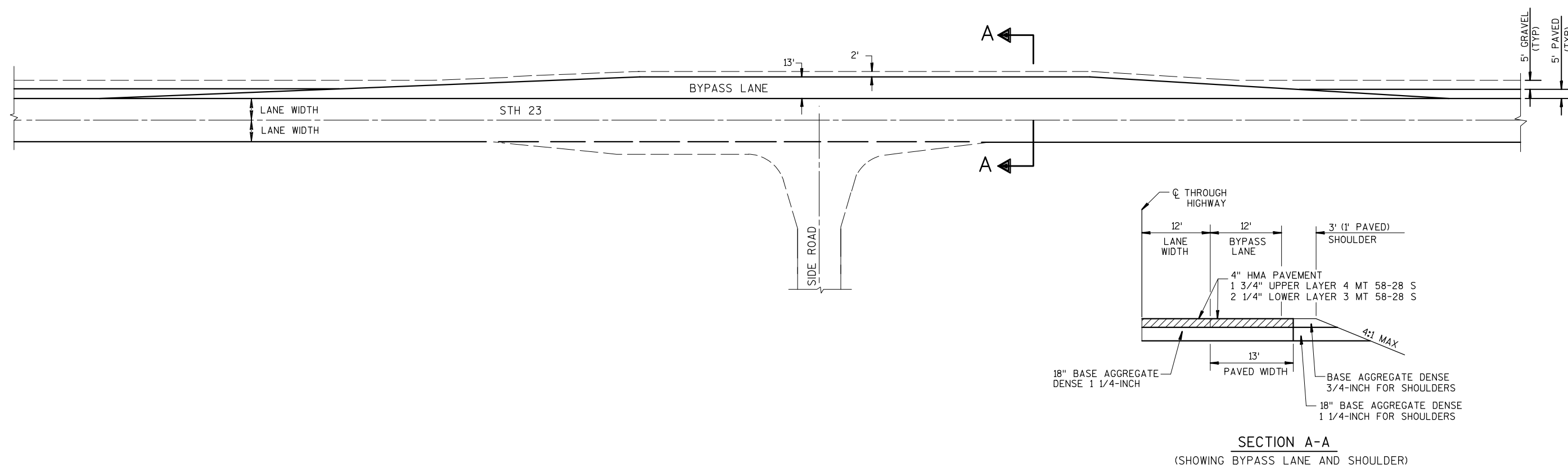


SHOULDER WIDENING

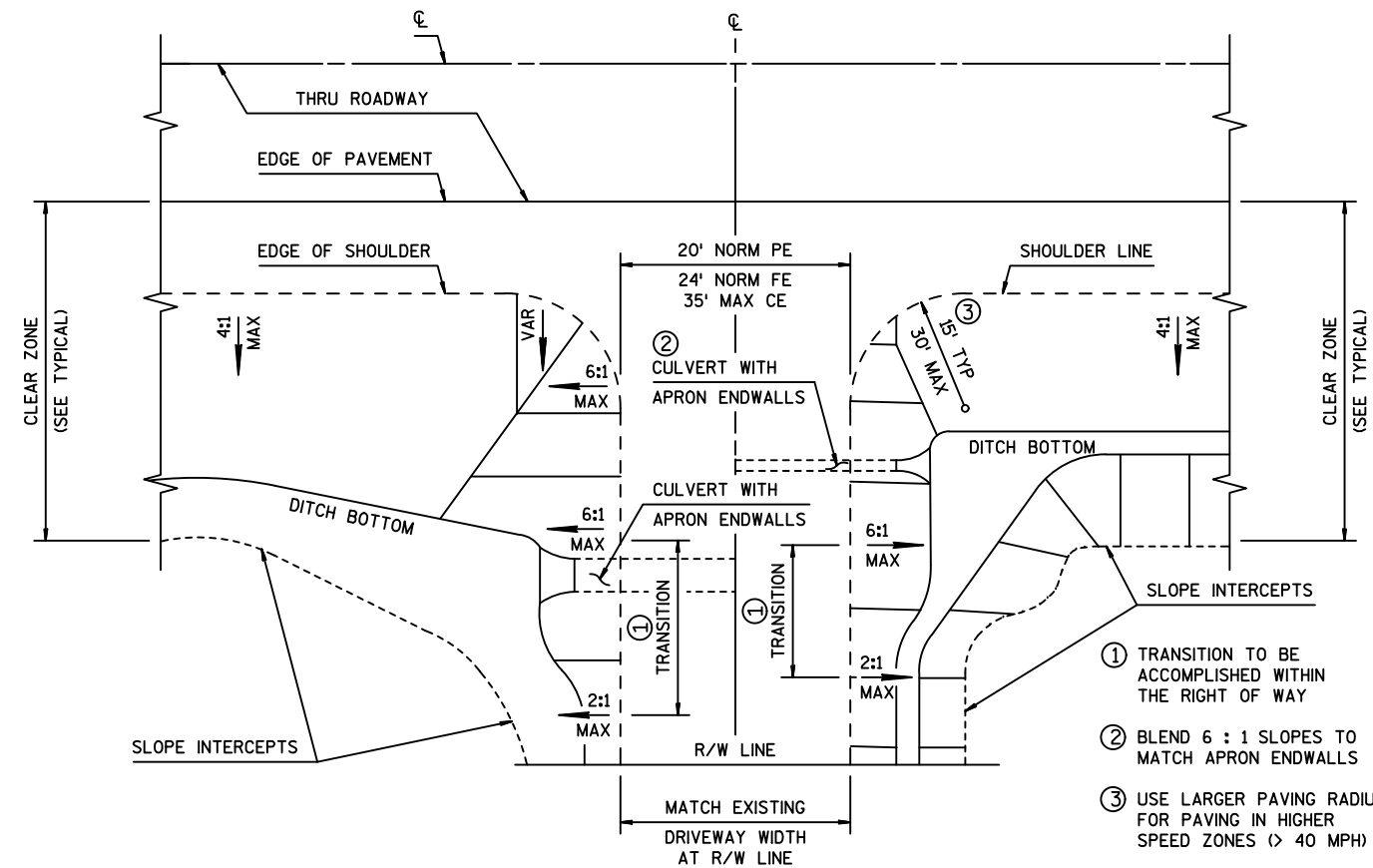
STA 961+42 - STA 980+35



TYPICAL CROSS SECTION AT MAINLINE WITH CURB AND GUTTER



TEE INTERSECTION BYPASS LANE DETAIL

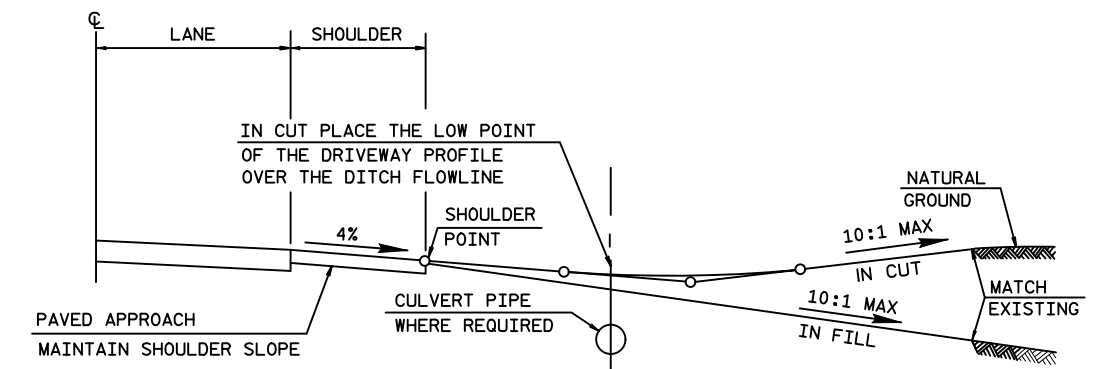


FOR CULVERTS OVER 24" DIAMETER

FOR CULVERTS 24" DIAMETER & LESS

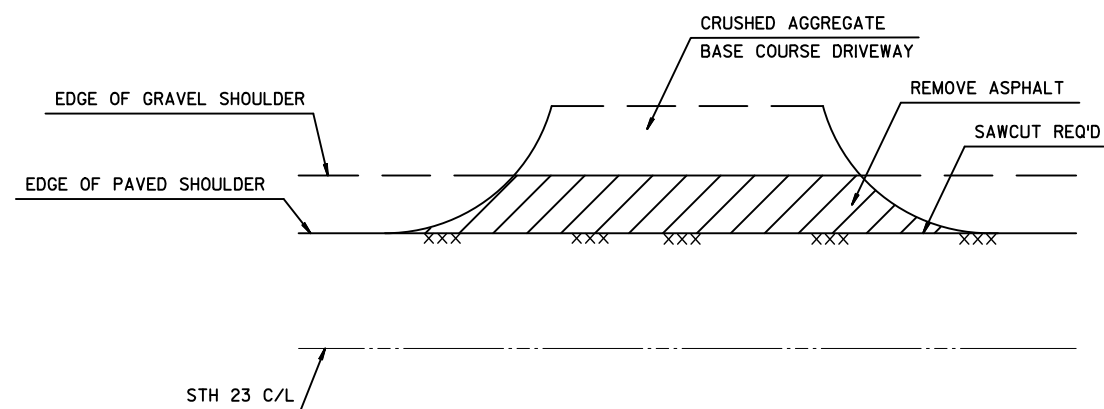
PLAN VIEW

RURAL DRIVEWAY GRADING AND/OR PAVING DETAIL

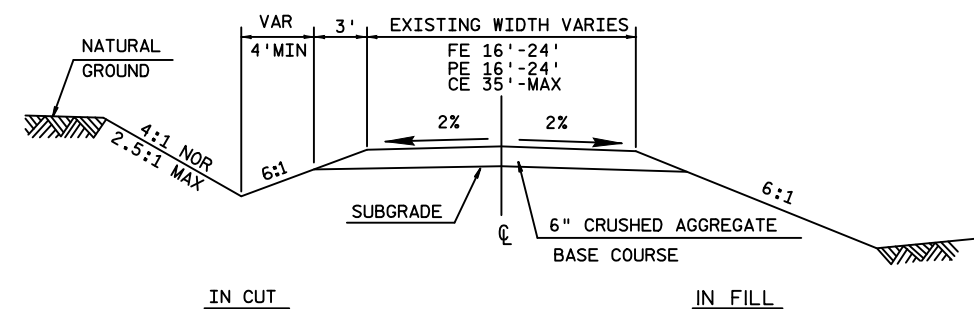


PLAN VIEW

TYPICAL DRIVEWAY PROFILES



APRON REMOVAL FOR UNPAVED DRIVEWAYS



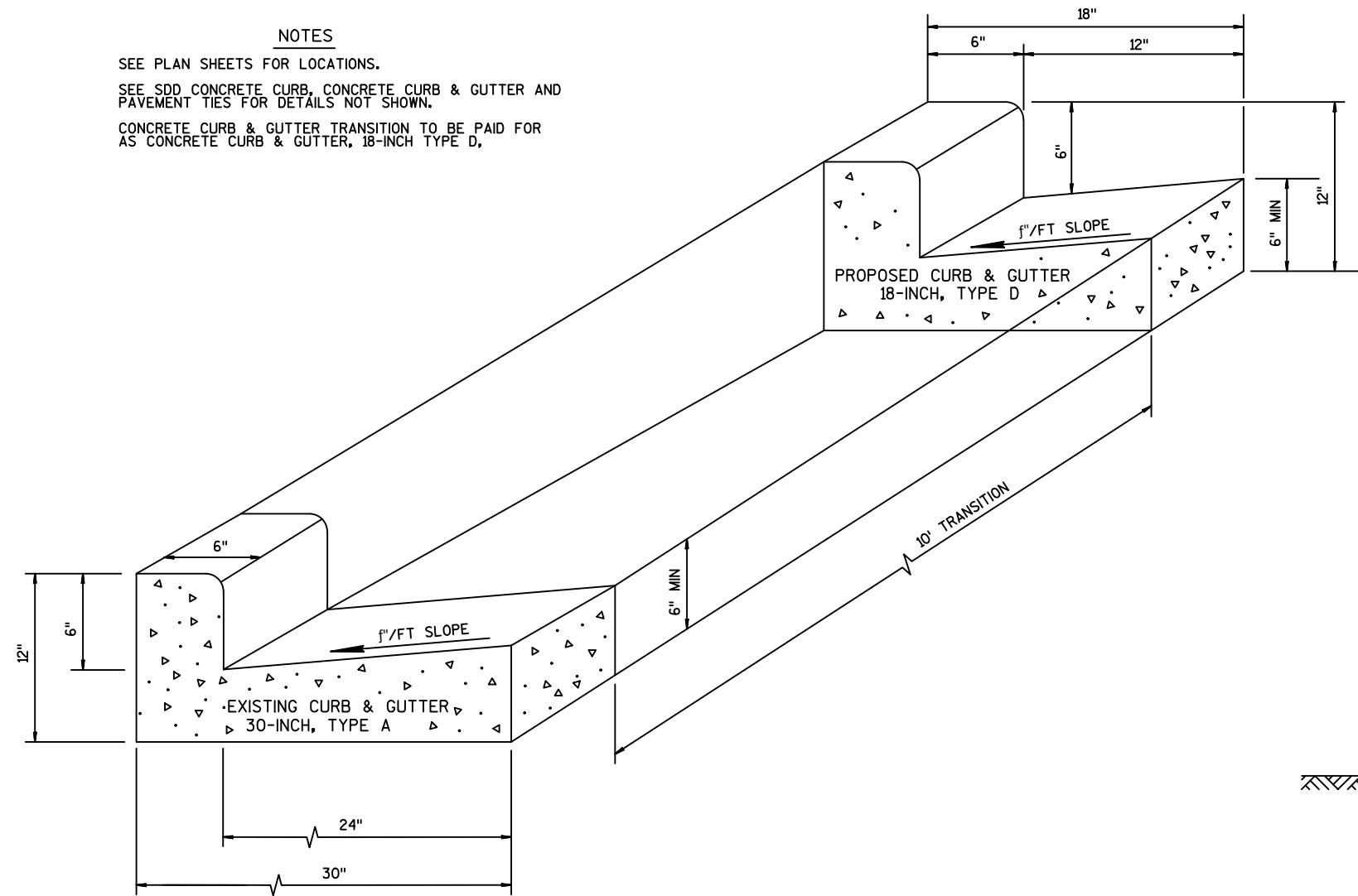
TYPICAL CROSS SECTION FOR PRIVATE DRIVE OR FIELD ENTRANCE

NOTES

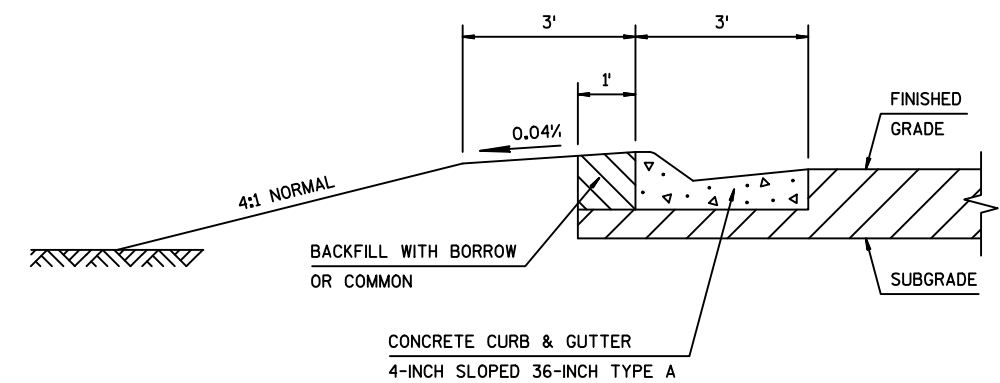
SEE PLAN SHEETS FOR LOCATIONS.

SEE SDD CONCRETE CURB, CONCRETE CURB & GUTTER AND PAVEMENT TIES FOR DETAILS NOT SHOWN.

CONCRETE CURB & GUTTER TRANSITION TO BE PAID FOR AS CONCRETE CURB & GUTTER, 18-INCH TYPE D,

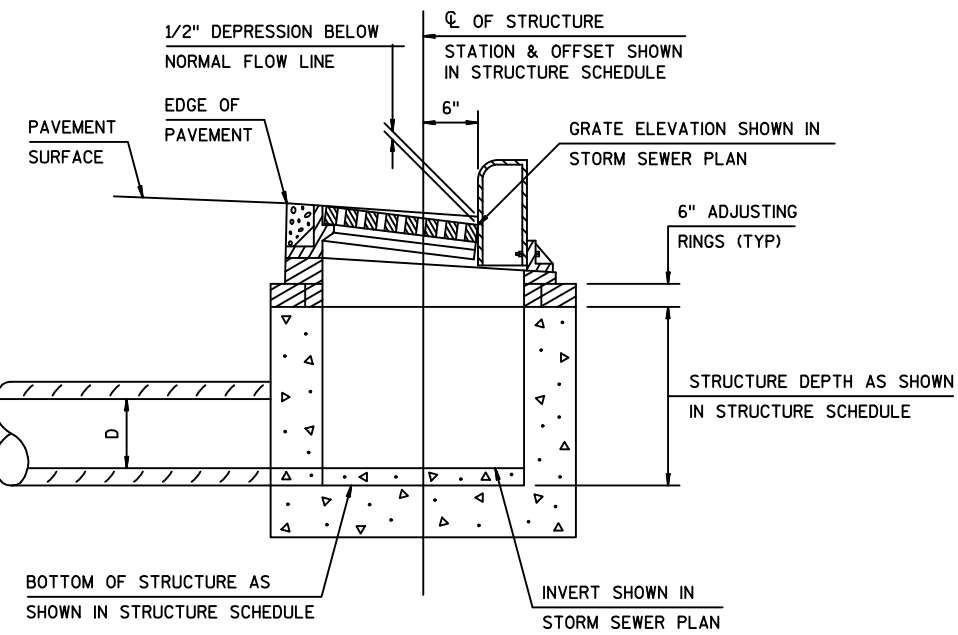
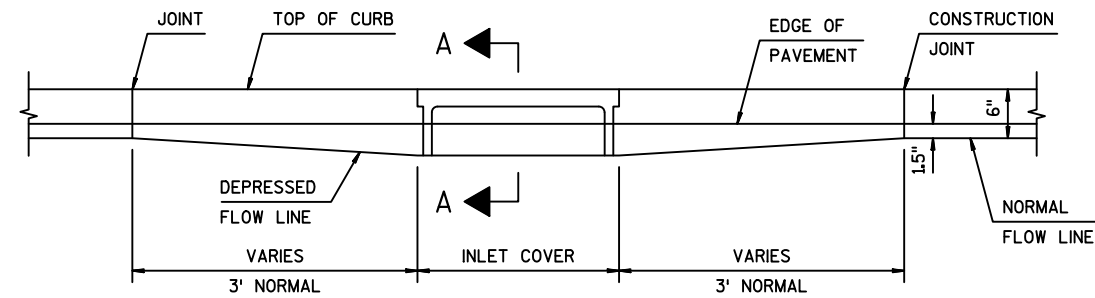


CONCRETE CURB & GUTTER TRANSITION DETAIL



BERM DETAIL BEHIND 4-INCH SLOPED 36-INCH CURB & GUTTER

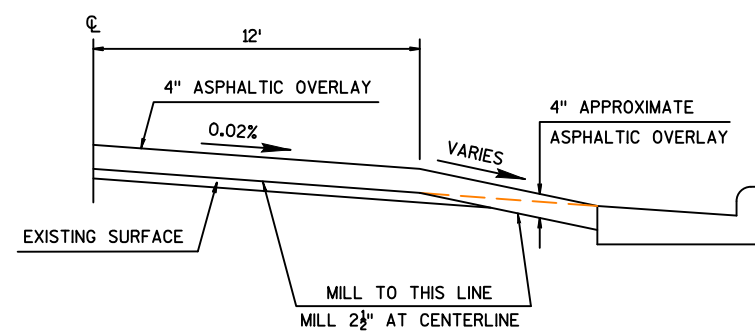
ESTERBROOK RD
WRIGHWAY DR



SECTION A-A

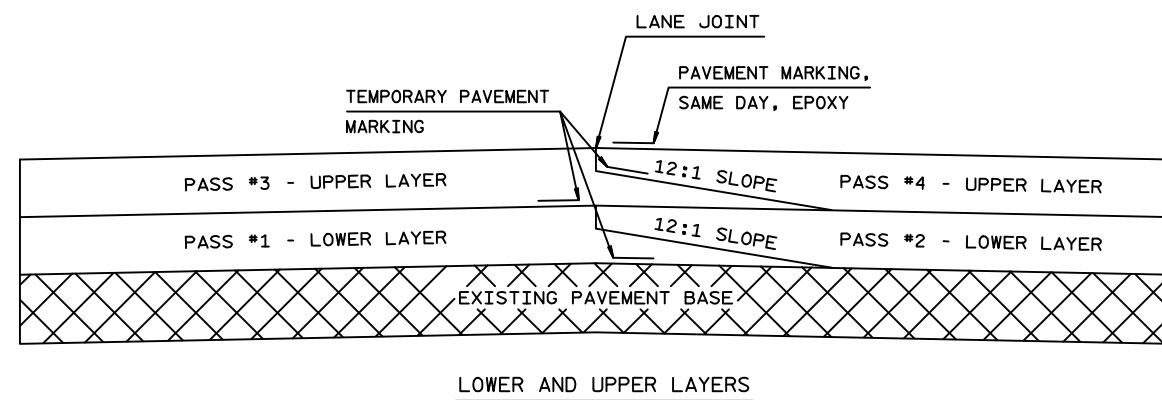
DETAIL OF CURB AND GUTTER AT INLETS

STREBLOW DR

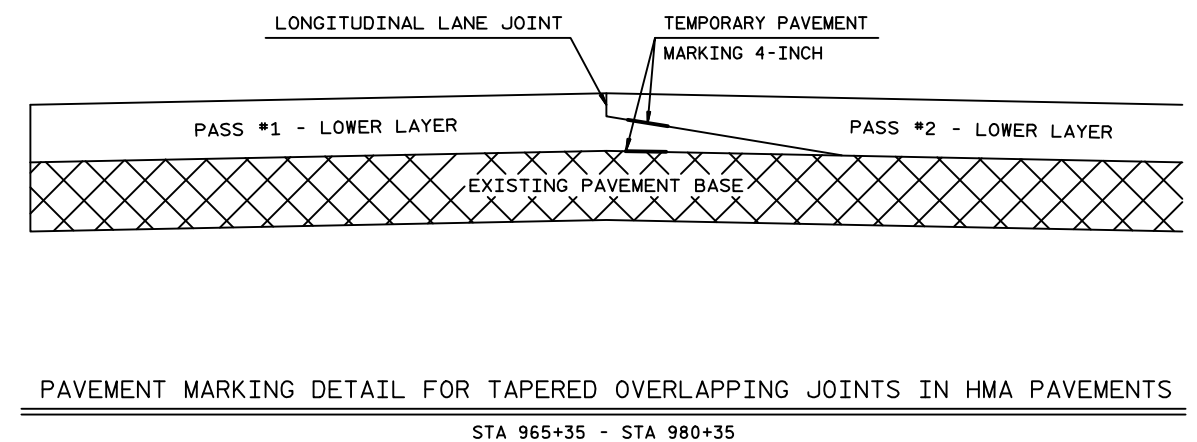


TYPICAL CROSS SECTION WITH CURB & GUTTER (MILLED)

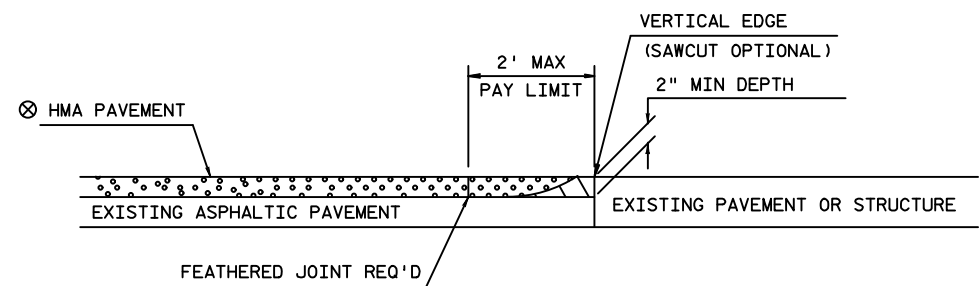
STREBLOW DR



PAVEMENT MARKING DETAIL FOR TAPERED OVERLAPPING JOINTS IN ASPHALTIC PAVEMENTS



PAVEMENT MARKING DETAIL FOR TAPERED OVERLAPPING JOINTS IN HMA PAVEMENTS



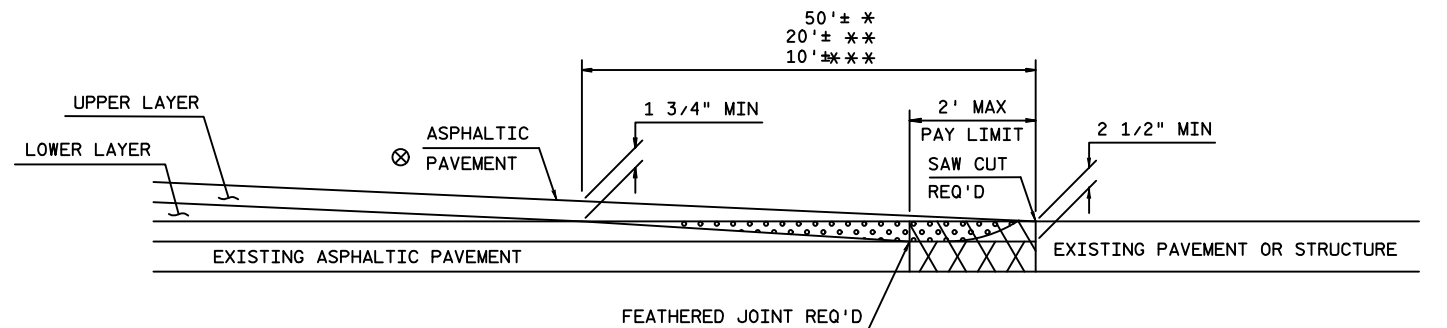
⊗ SEE TYPICAL CROSS SECTION FOR PAVEMENT TYPE AND THICKNESS OF INDIVIDUAL LAYERS

REMOVING ASPHALTIC SURFACE MILLING

REMOVING ASPHALTIC SURFACE WEDGE AT BUTT JOINT TO CREATE VERTICAL EDGE

BUTT JOINT DETAIL FOR ASPHALTIC PAVEMENTS

STA 980+35



⊗ SEE TYPICAL CROSS SECTION FOR PAVEMENT TYPE AND THICKNESS OF INDIVIDUAL LAYERS

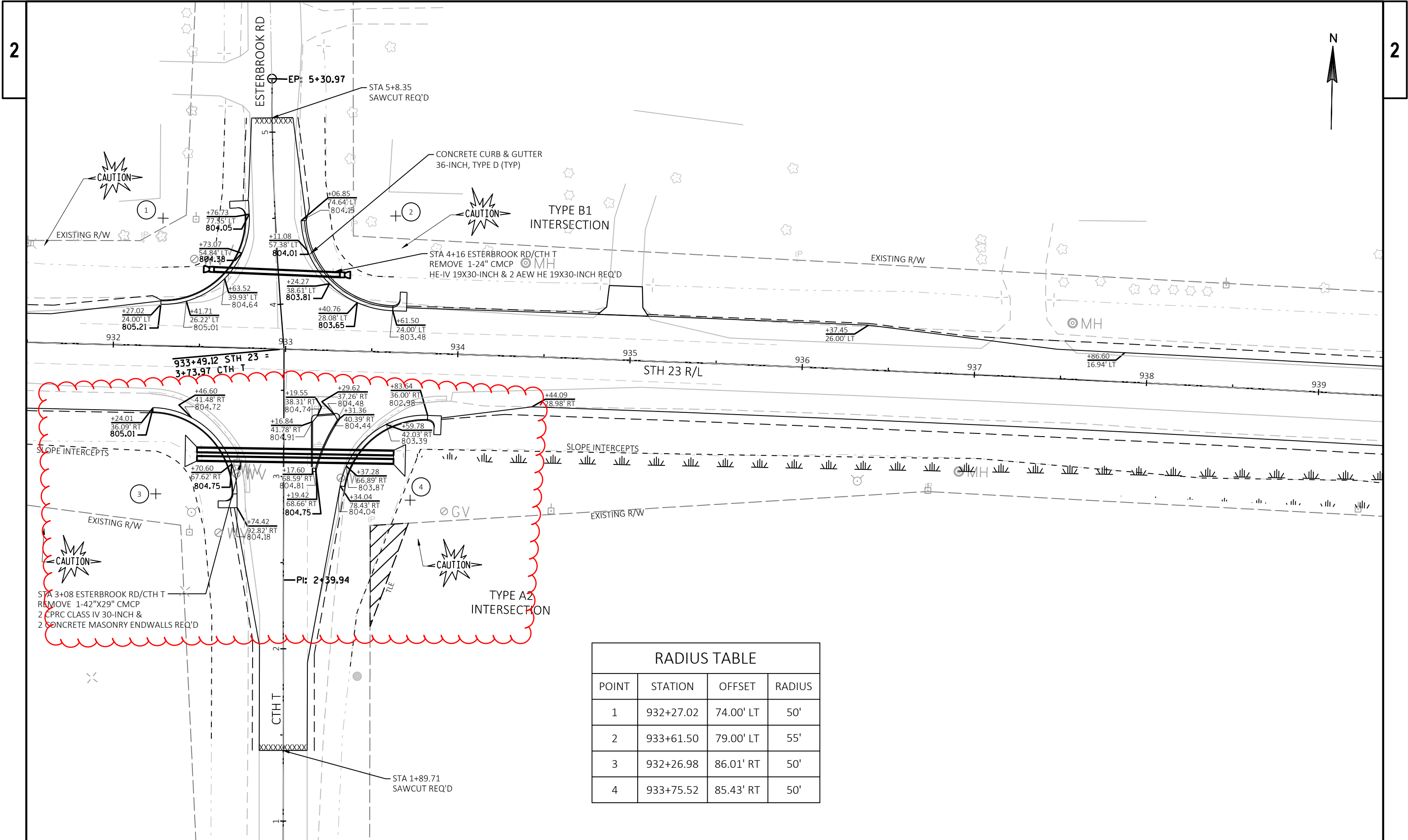
REMOVING ASPHALTIC SURFACE, MILLING

REMOVING ASPHALTIC SURFACE, BUTT JOINTS (FULL DEPTH REMOVAL OPTIONAL)

ASPHALTIC WEDGING (FULL DEPTH REMOVAL OPTION)

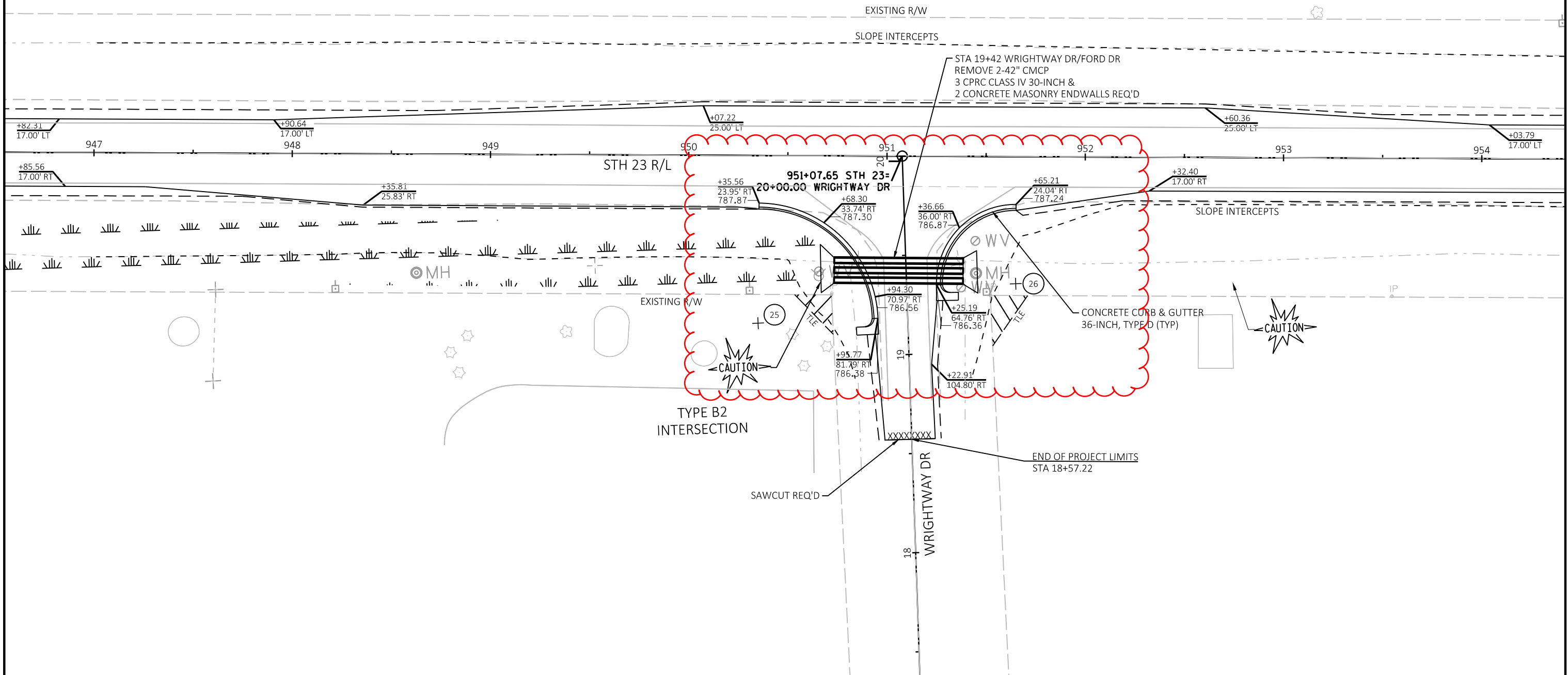
BUTT JOINT DETAIL FOR MILLED ASPHALTIC PAVEMENTS

* MAINLINE
** SIDEROADS
*** PRIVATE ENTRANCES

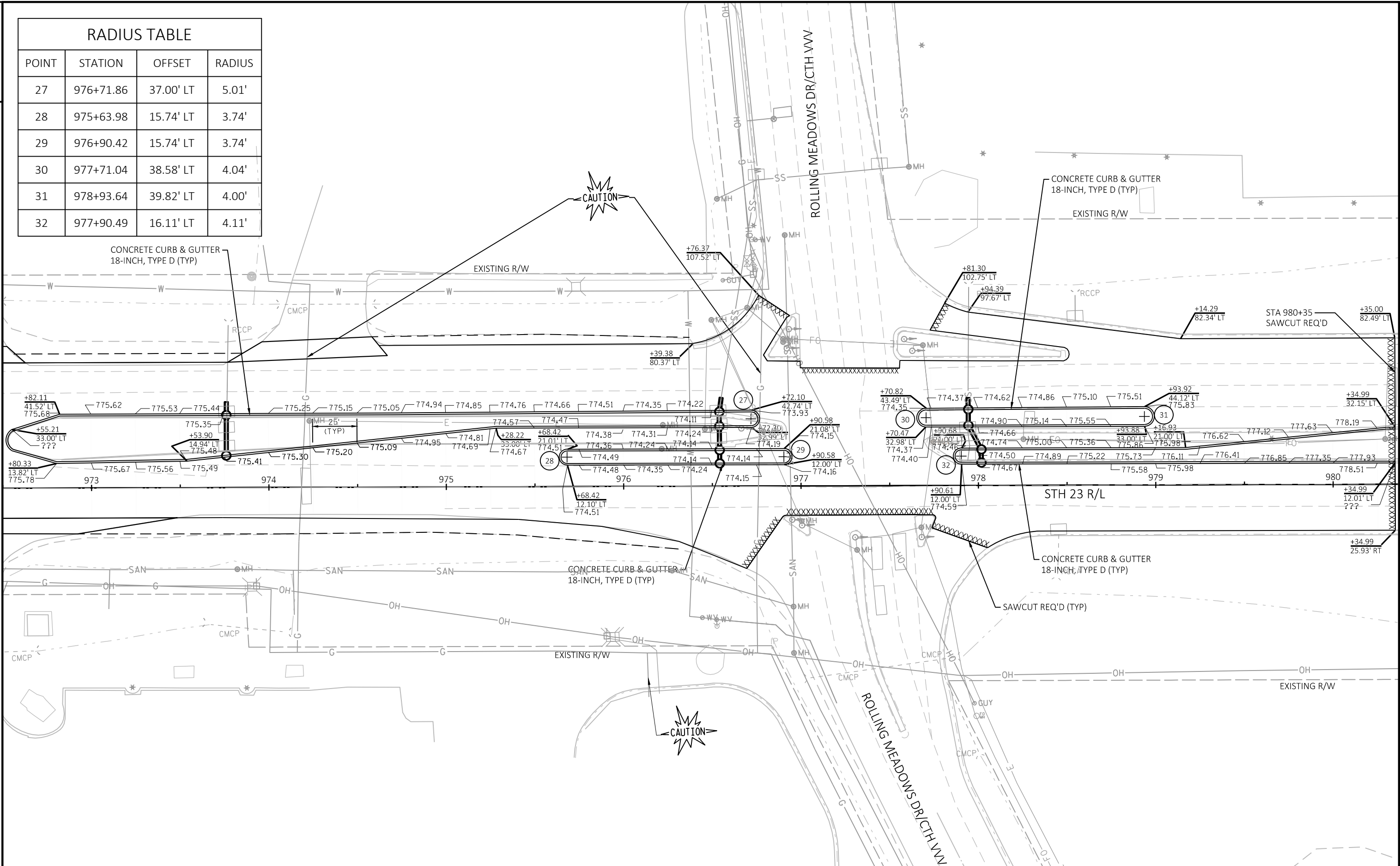


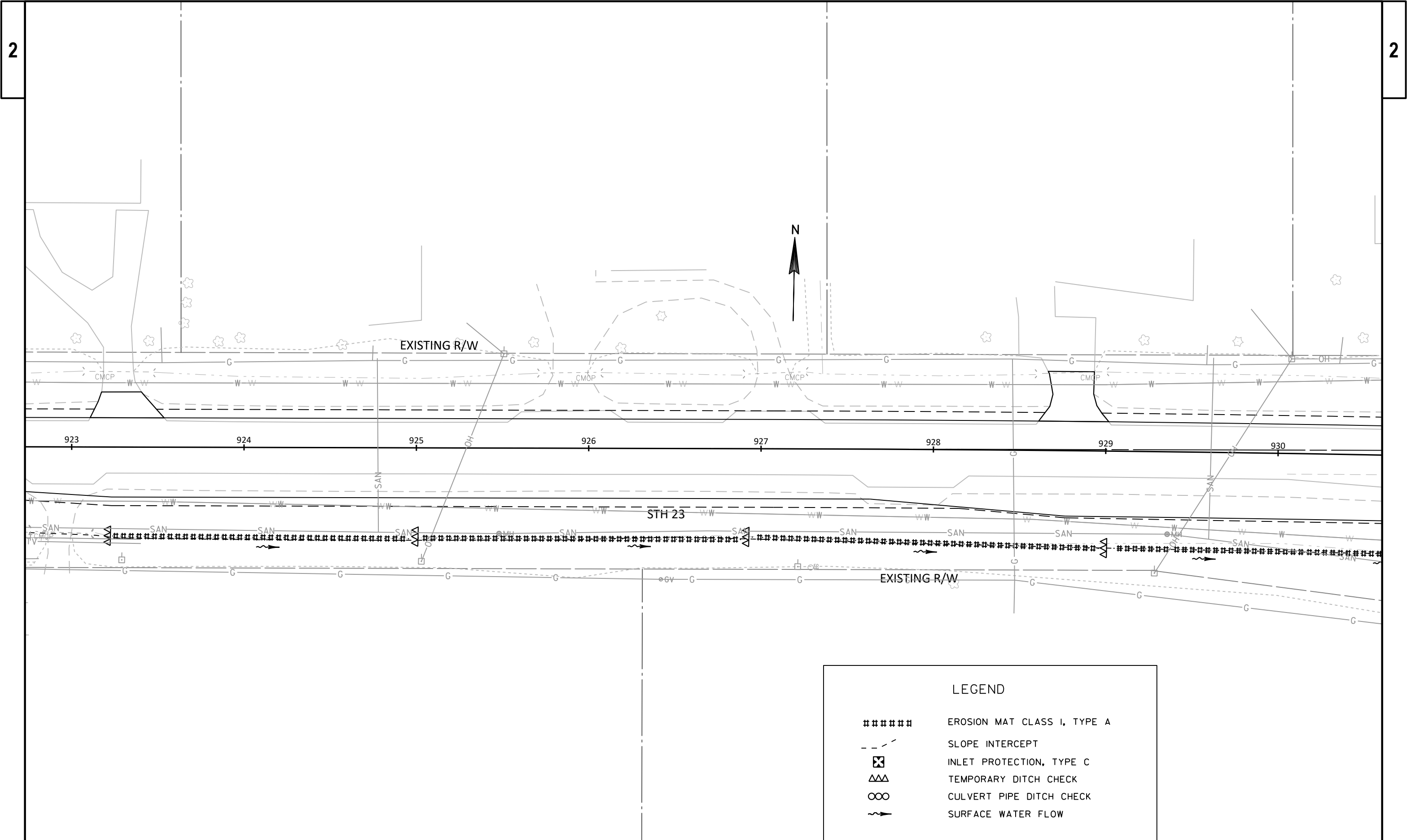


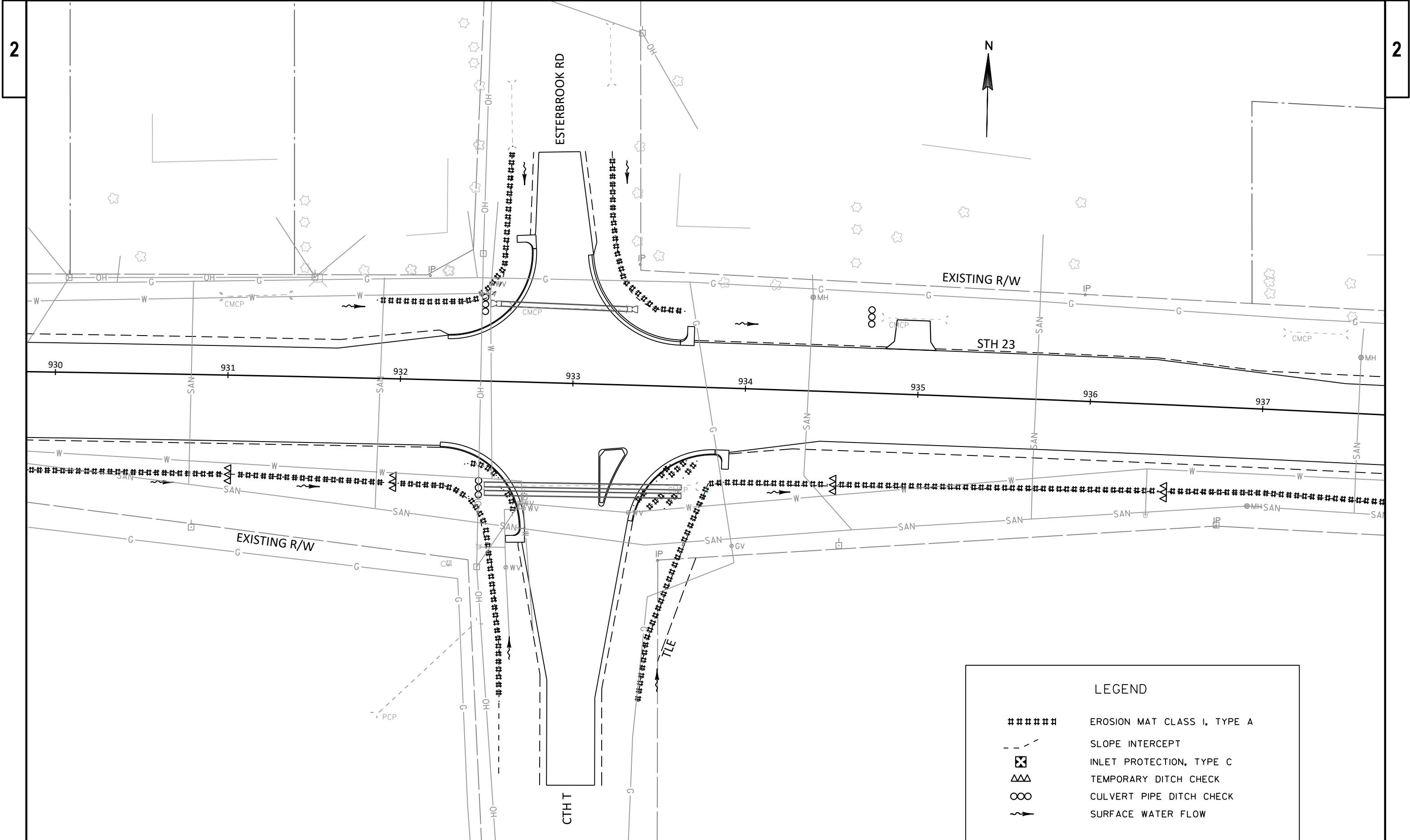
RADIUS TABLE			
POINT	STATION	OFFSET	RADIUS
25	950+35.30	84.40' RT	60'
26	951+65.18	64.04' RT	40'

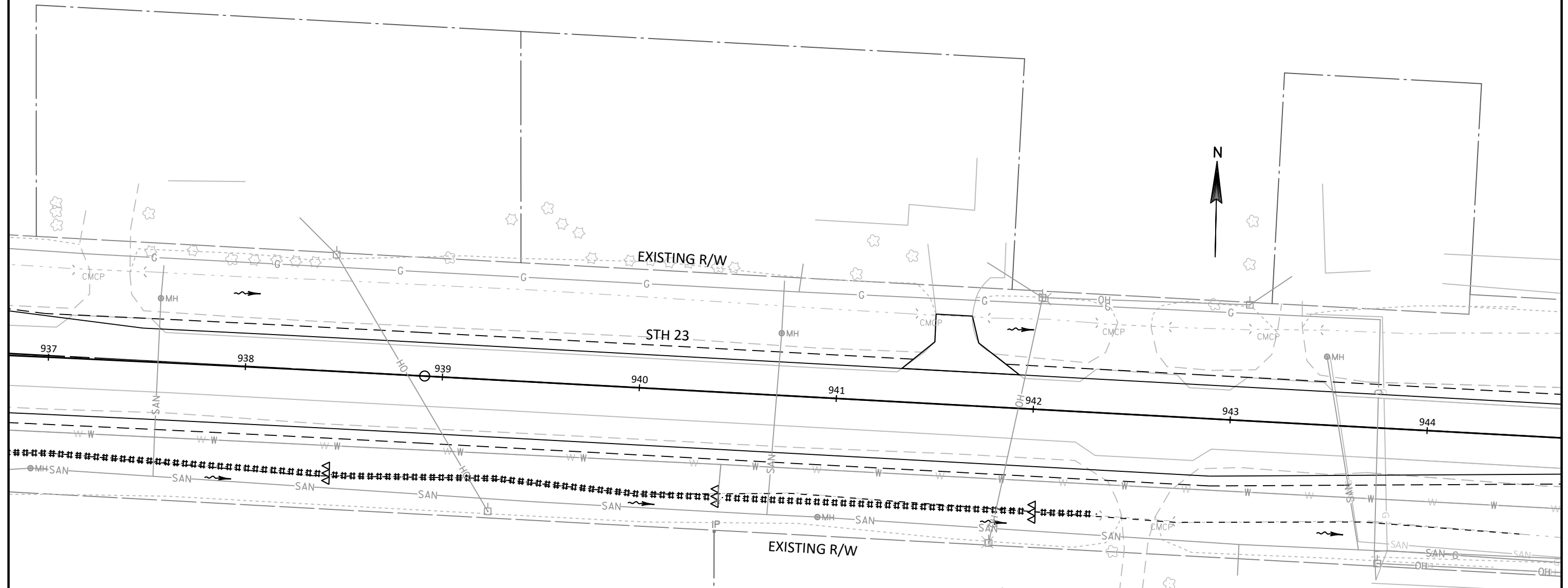


RADIUS TABLE			
POINT	STATION	OFFSET	RADIUS
27	976+71.86	37.00' LT	5.01'
28	975+63.98	15.74' LT	3.74'
29	976+90.42	15.74' LT	3.74'
30	977+71.04	38.58' LT	4.04'
31	978+93.64	39.82' LT	4.00'
32	977+90.49	16.11' LT	4.11'









LEGEND

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SLOPE INTERCEPT

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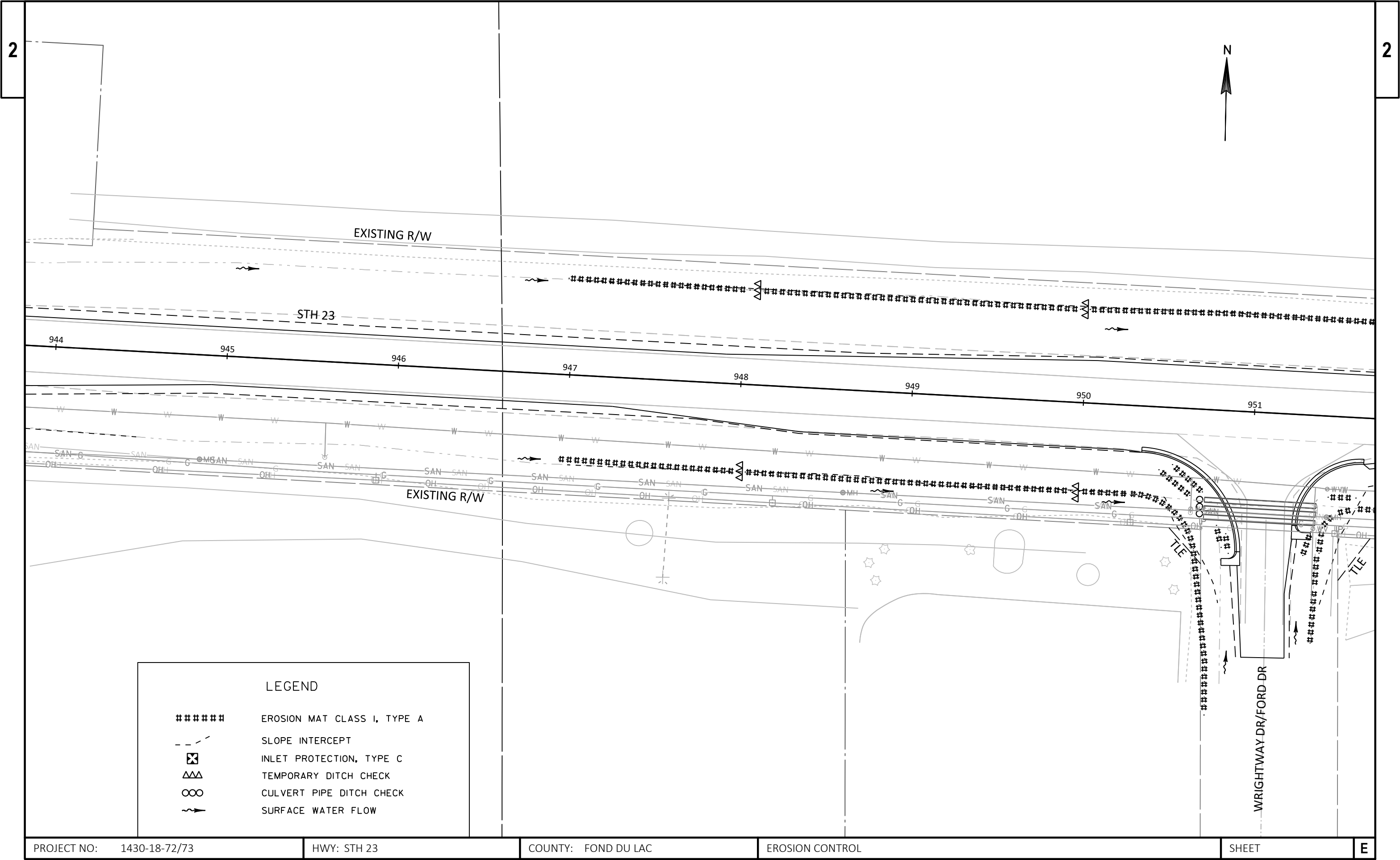
EROSION MAT CLASS I, TYPE A

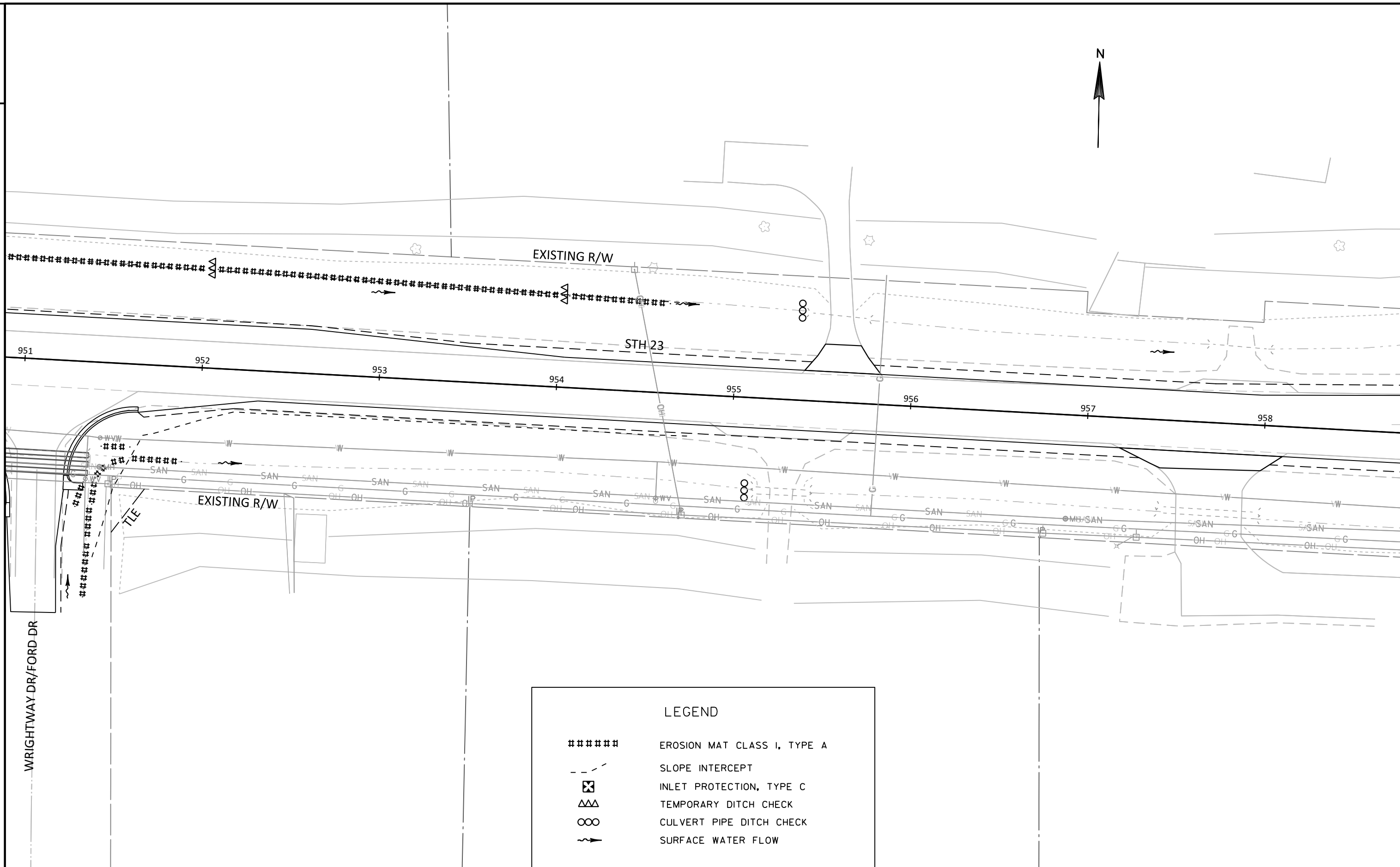
INLET PROTECTION, TYPE C

TEMPORARY DITCH CHECK

CULVERT PIPE DITCH CHECK

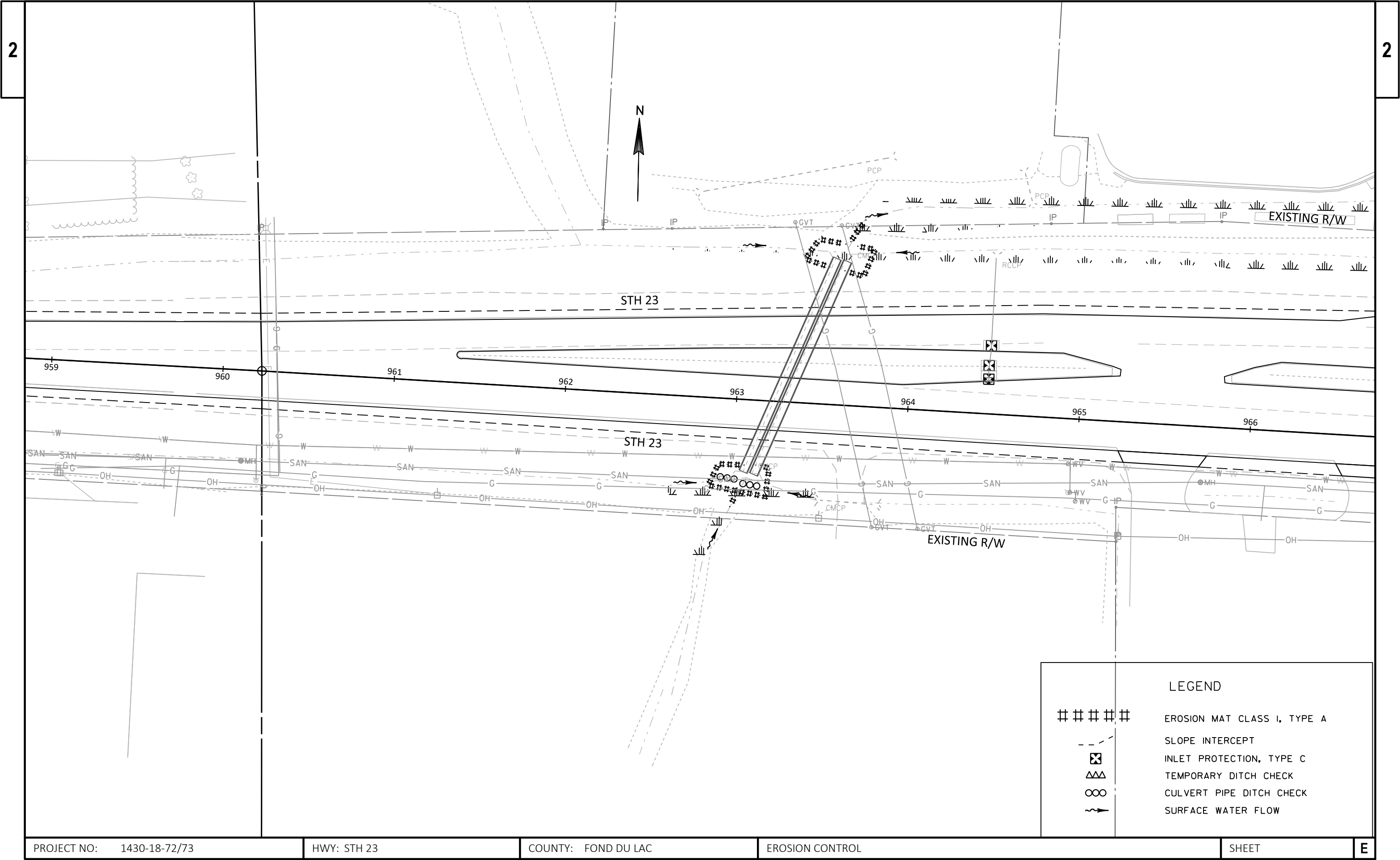
SURFACE WATER FLOW

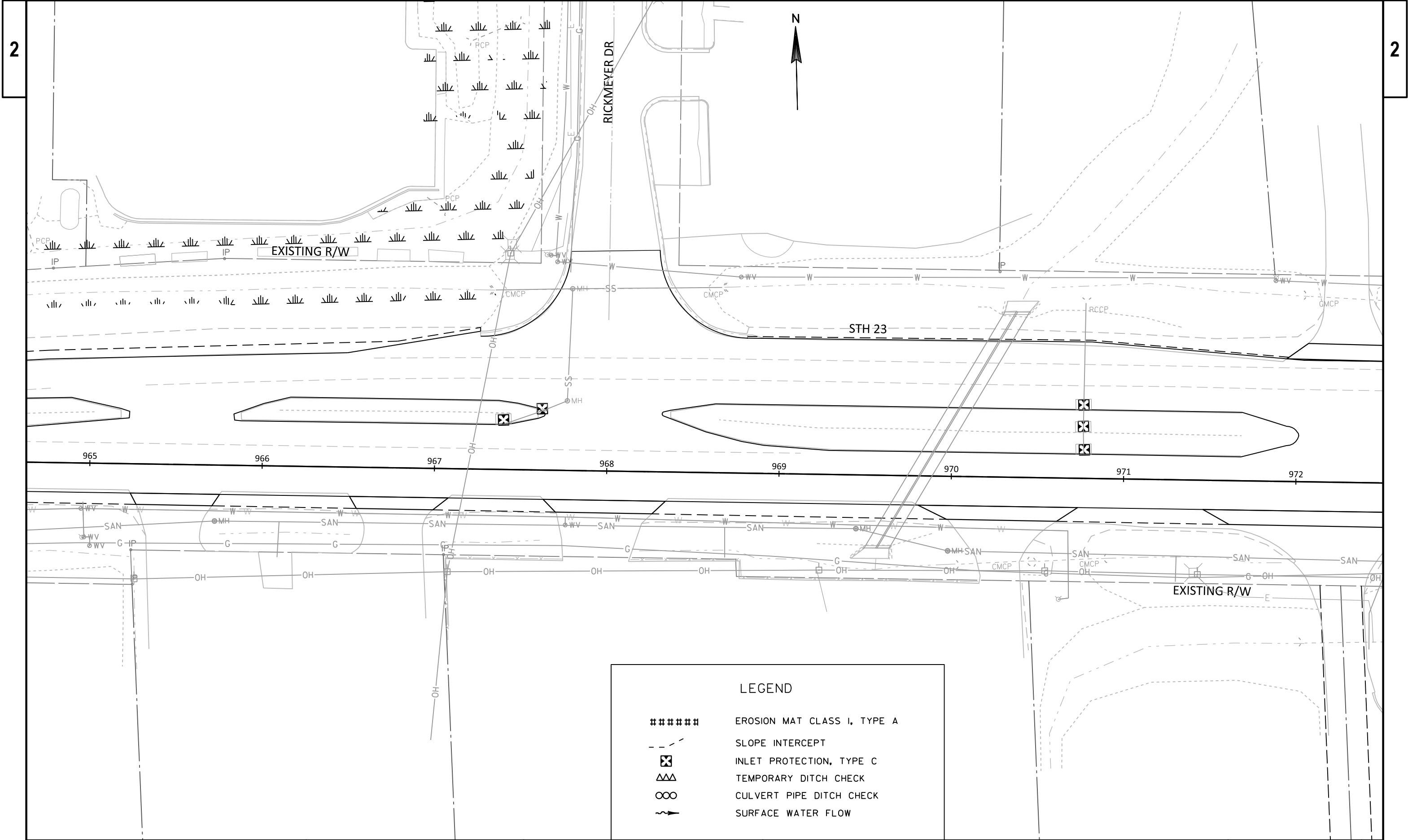


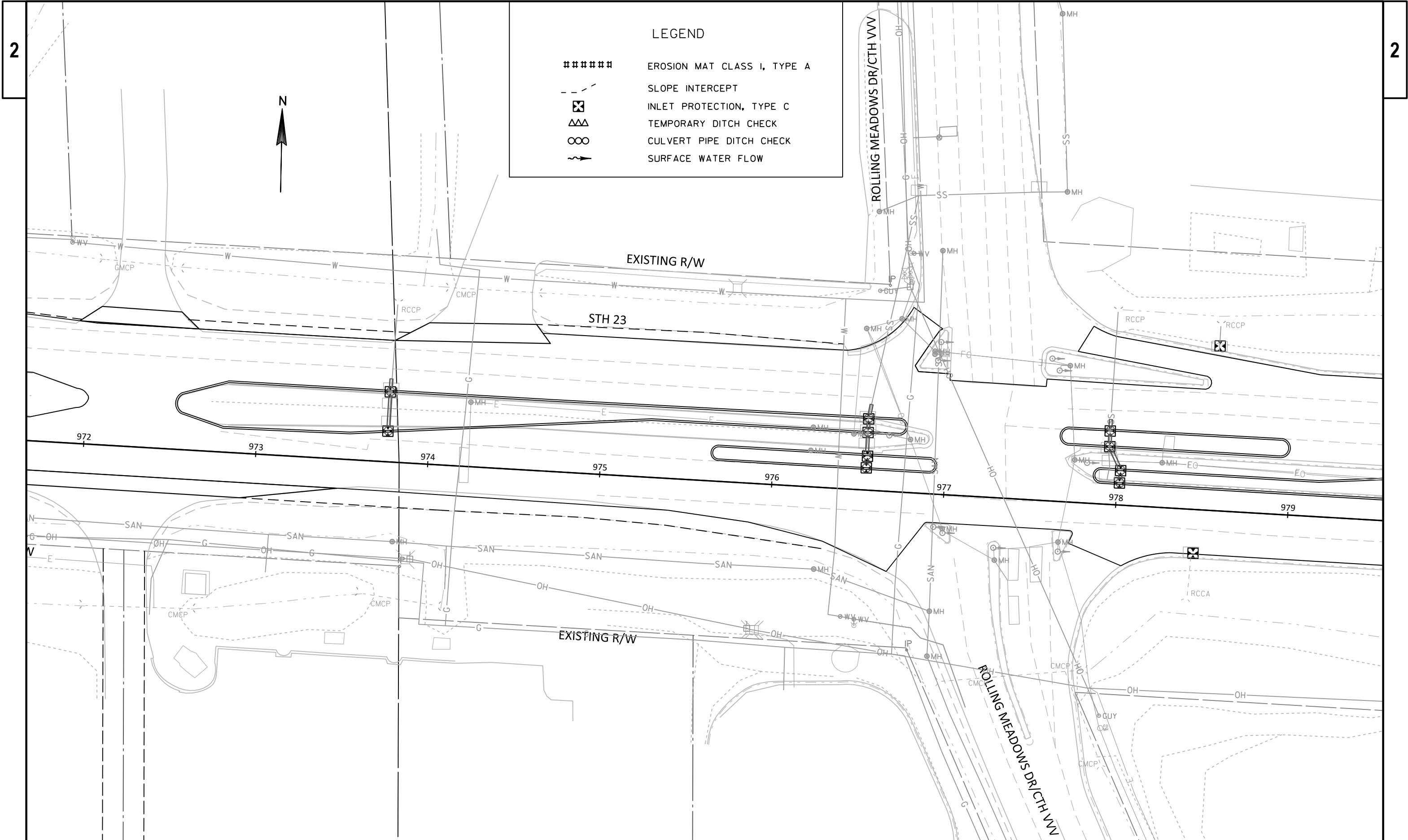


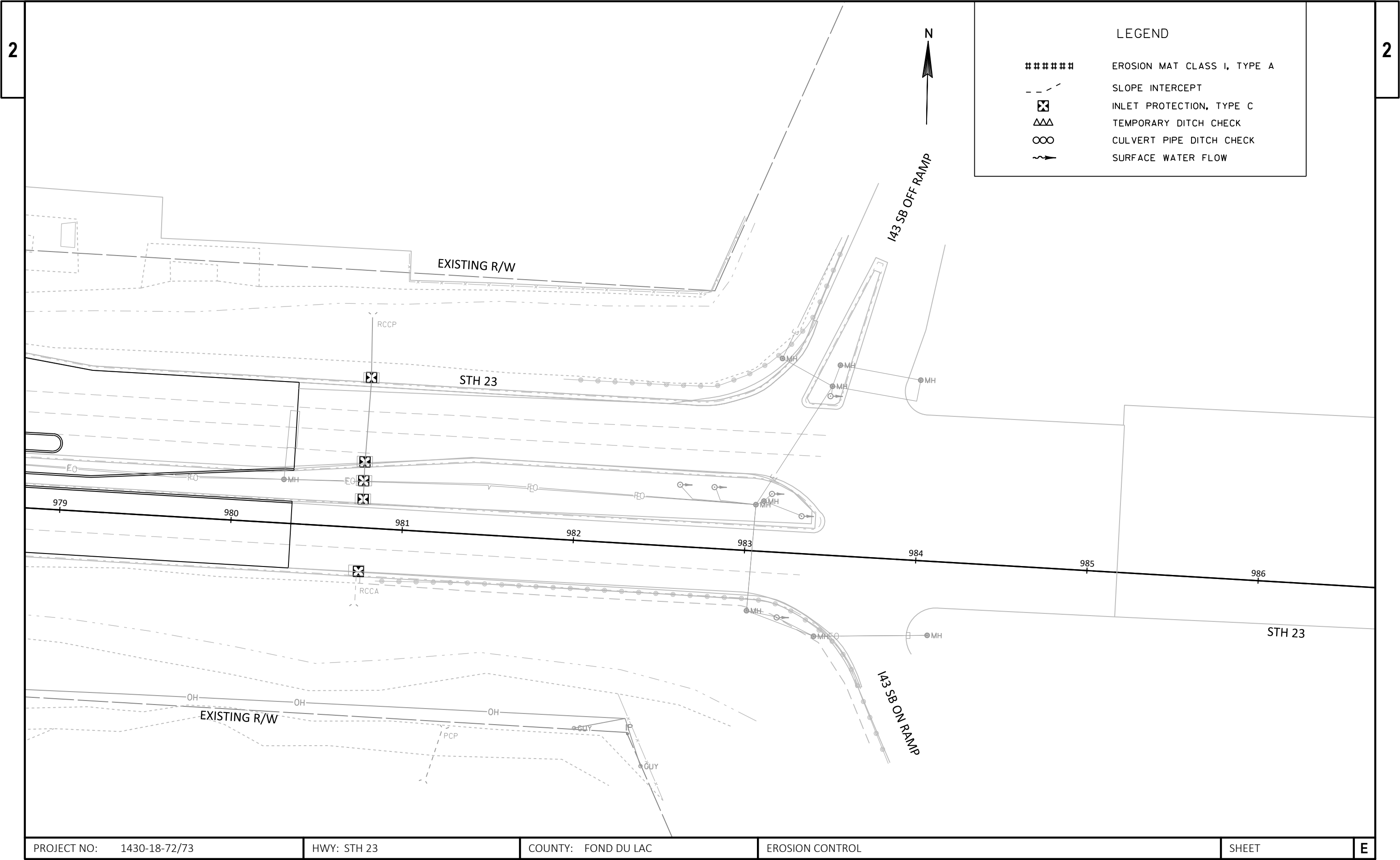
LEGEND

- ##### EROSION MAT CLASS I, TYPE A
- - - SLOPE INTERCEPT
- ⊗ INLET PROTECTION, TYPE C
- ΔΔΔ TEMPORARY DITCH CHECK
- ∞ CULVERT PIPE DITCH CHECK
- ~> SURFACE WATER FLOW



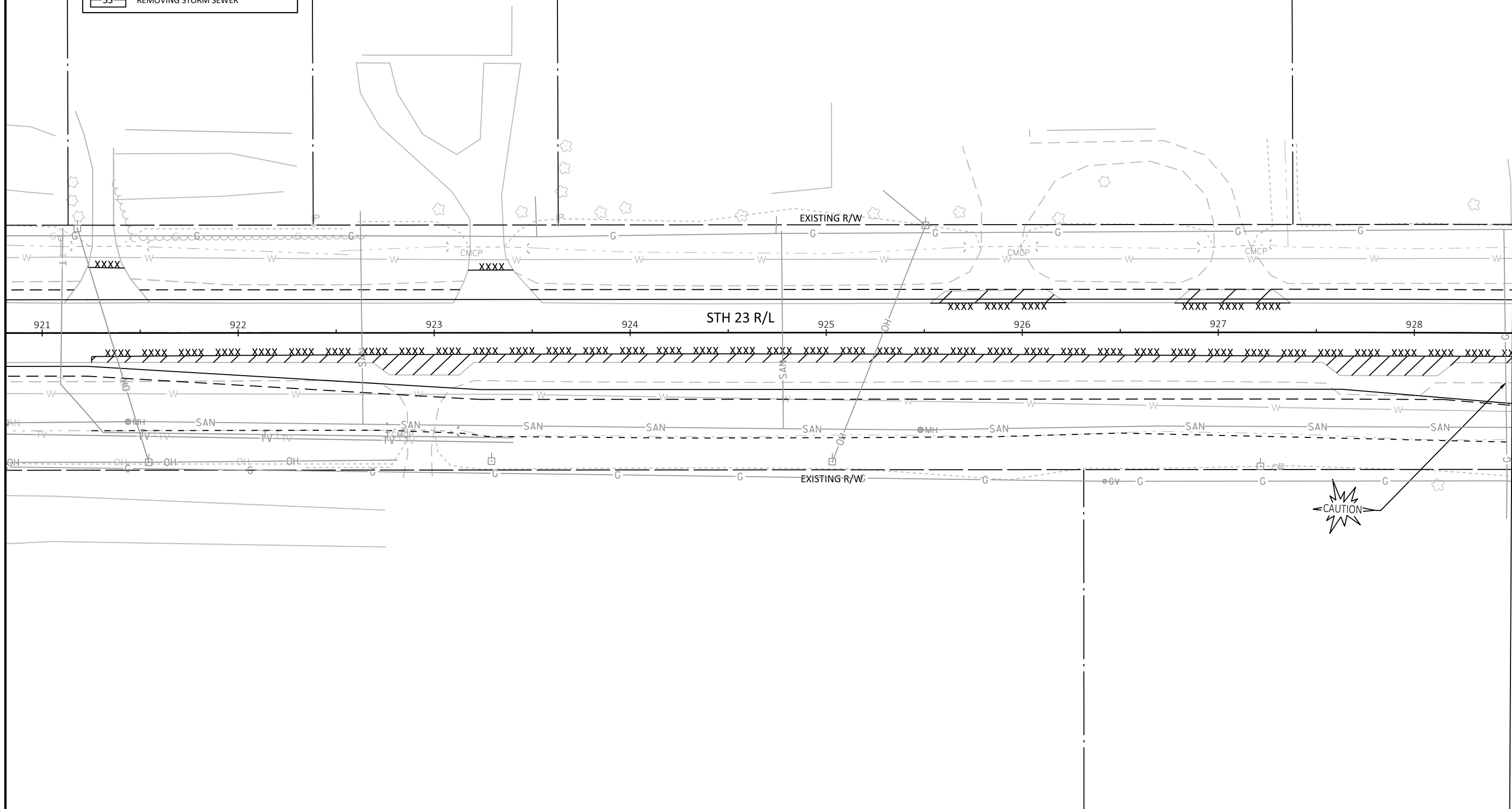
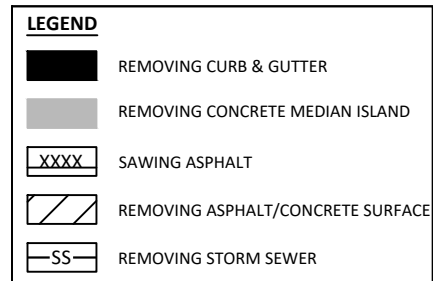






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PROJECT NO:	1430-18-72/73
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HWY: STH 23

COUNTY: FOND DU LAC

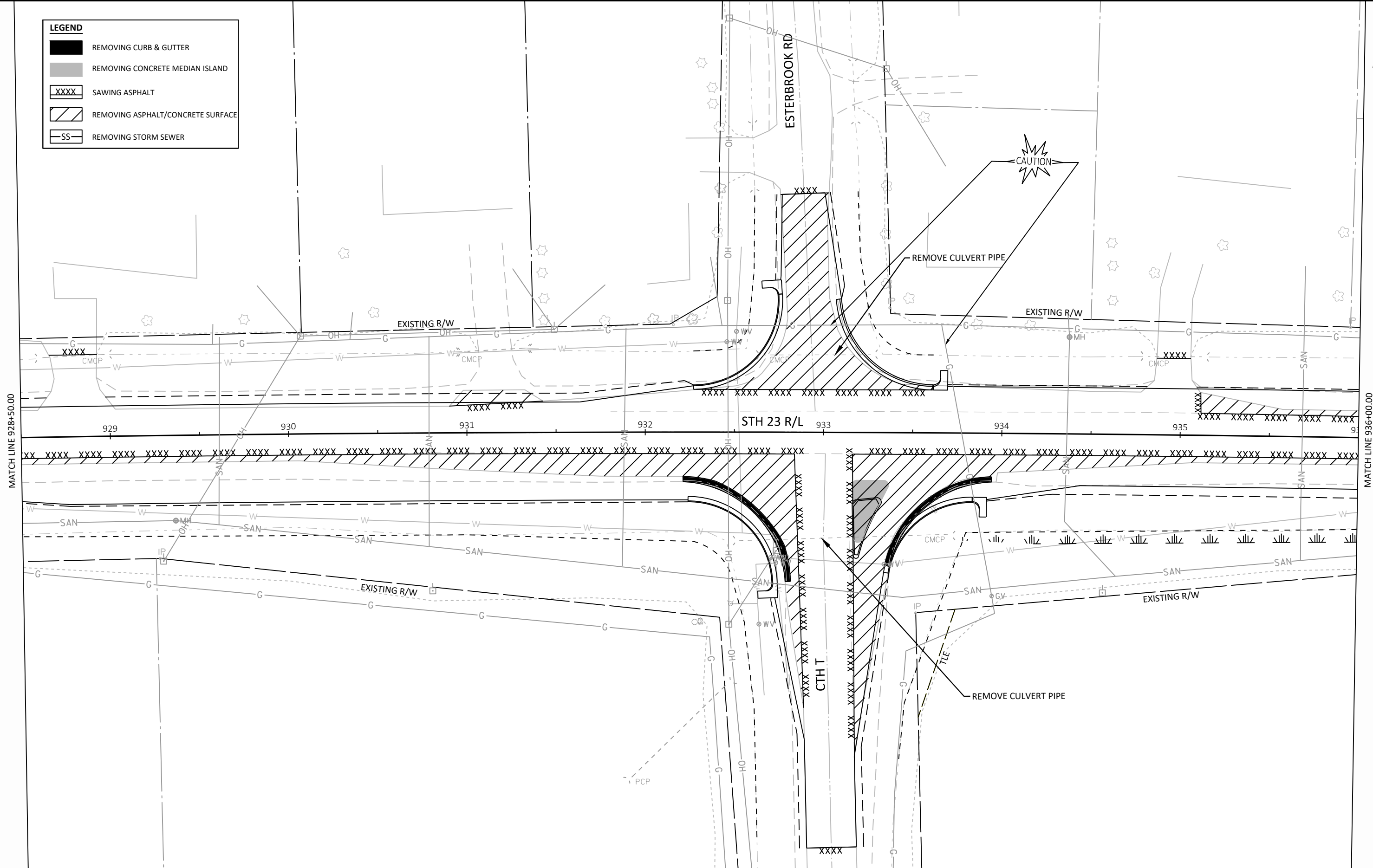
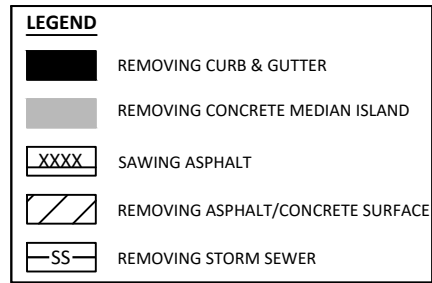
REMOVAL DETAILS

SHEET

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2

2



PROJECT NO: 1430-18-72/73

HWY: STH 23

COUNTY: FOND DU LAC

REMOVAL DETAILS

SHEET

1

FILE NAME : N:\PDS\C3D\14301800\SHEETSP\1430-18-72-73\022401-RM.DWG
LAYOUT NAME - 022402-rm

PLOT DATE : 3/20/2018 8:05 AM

PLOT BY : SMITH, JENNIFER B

PLOT NAME :

PLOT SCALE : 1 IN:50 FT

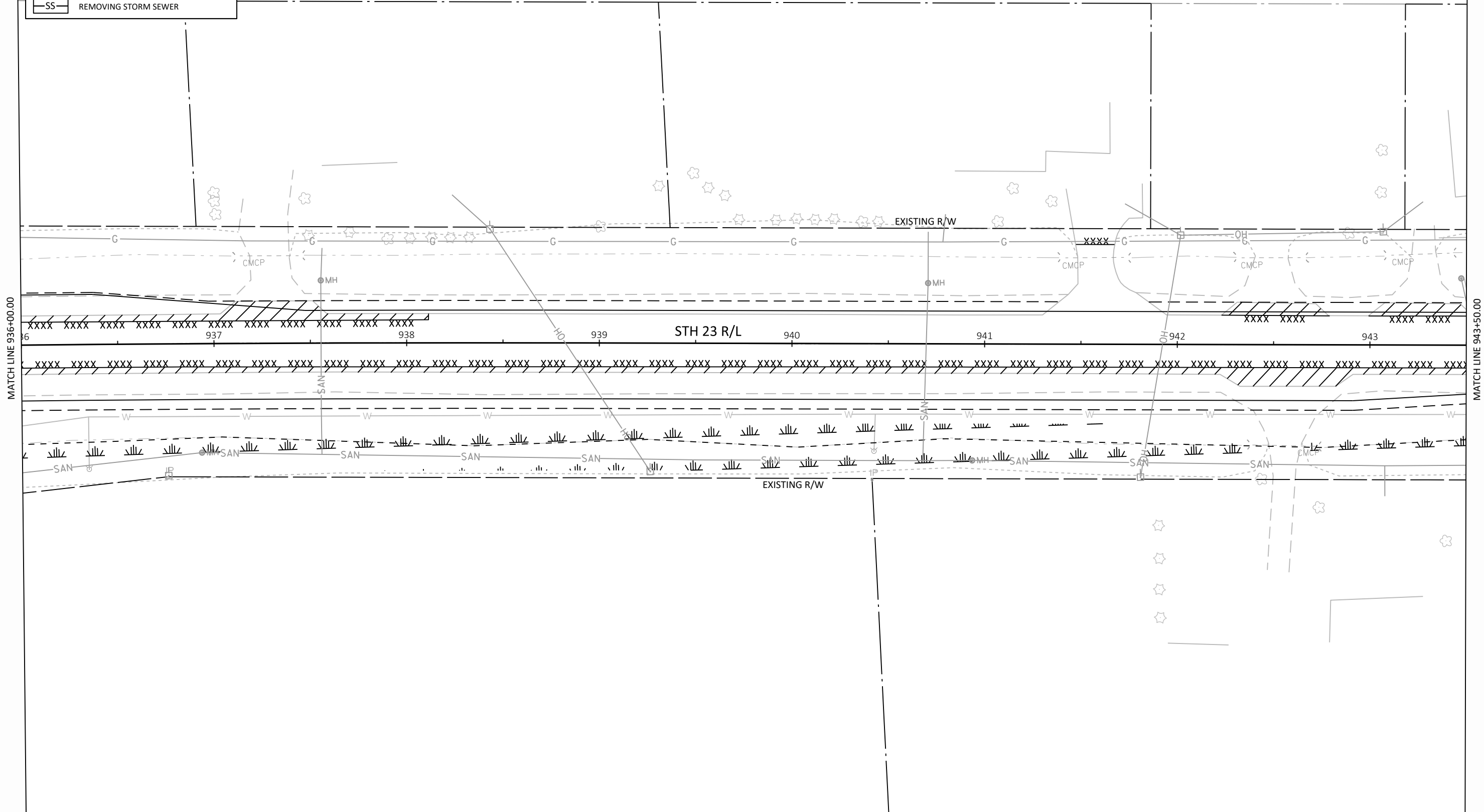
WISDOT/CADDS SHEET 42

2

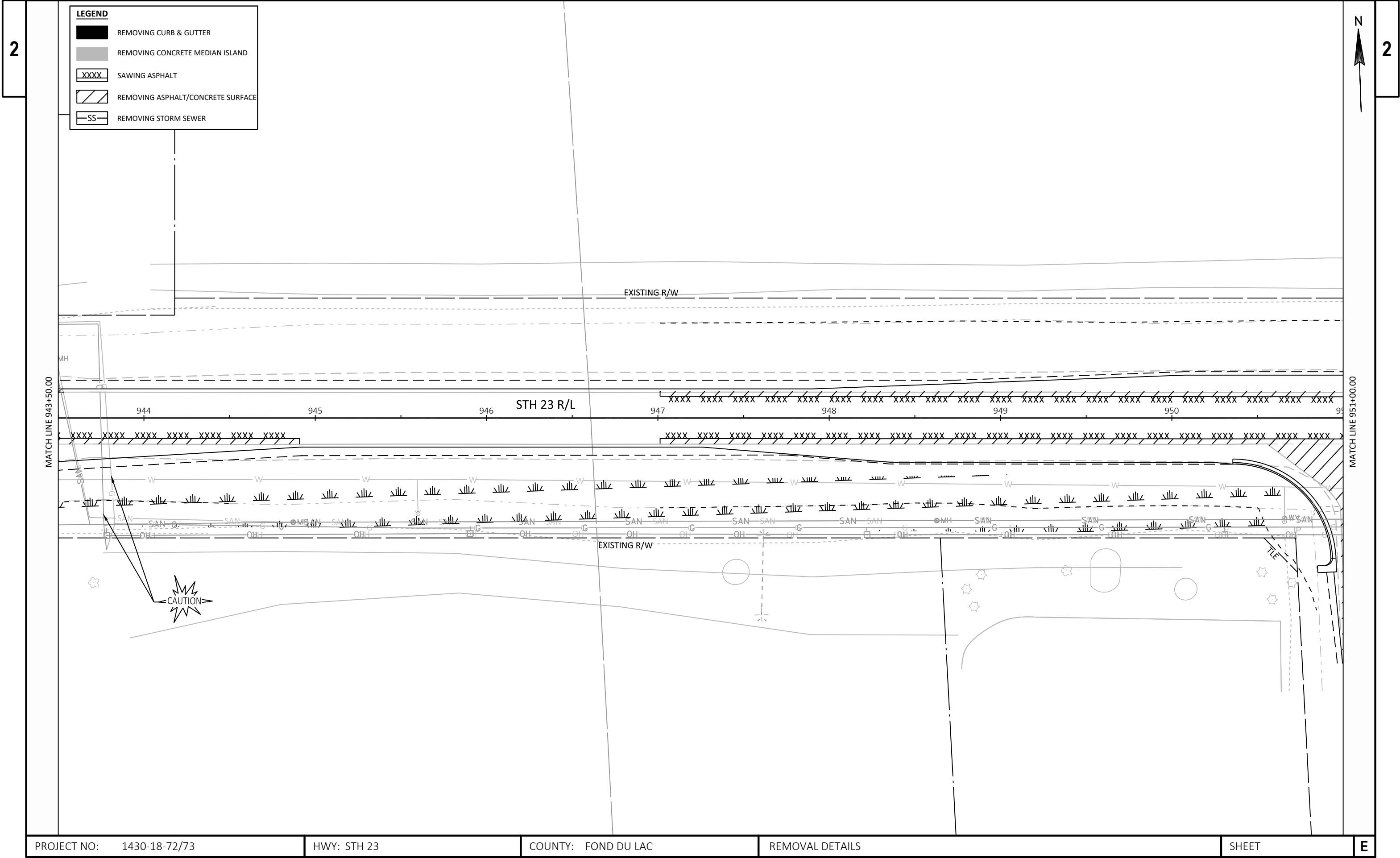
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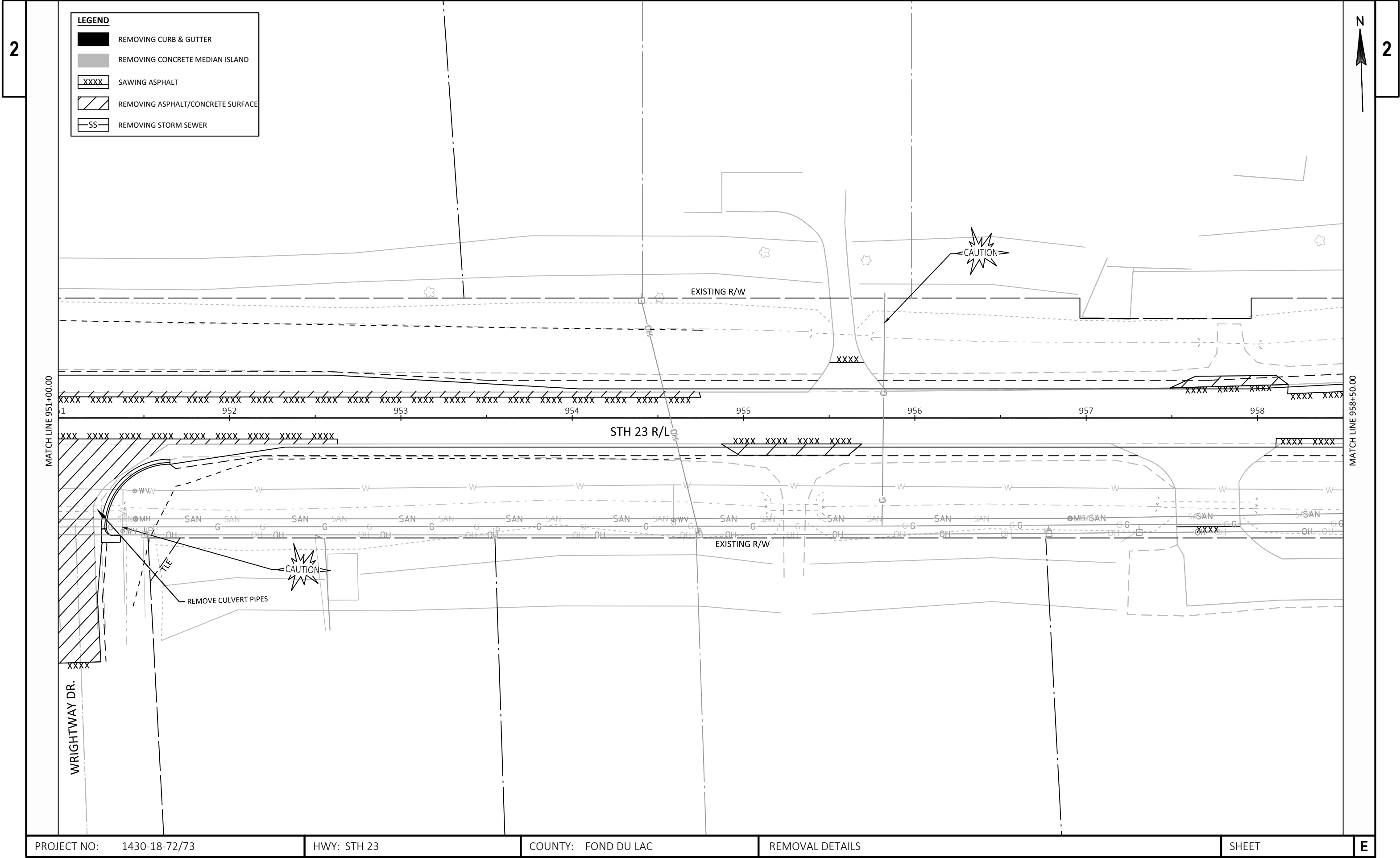


LEGEND	
	REMOVING CURB & GUTTER
	REMOVING CONCRETE MEDIAN ISLAND
	SAWING ASPHALT
	REMOVING ASPHALT/CONCRETE SURFACE
	REMOVING STORM SEWER



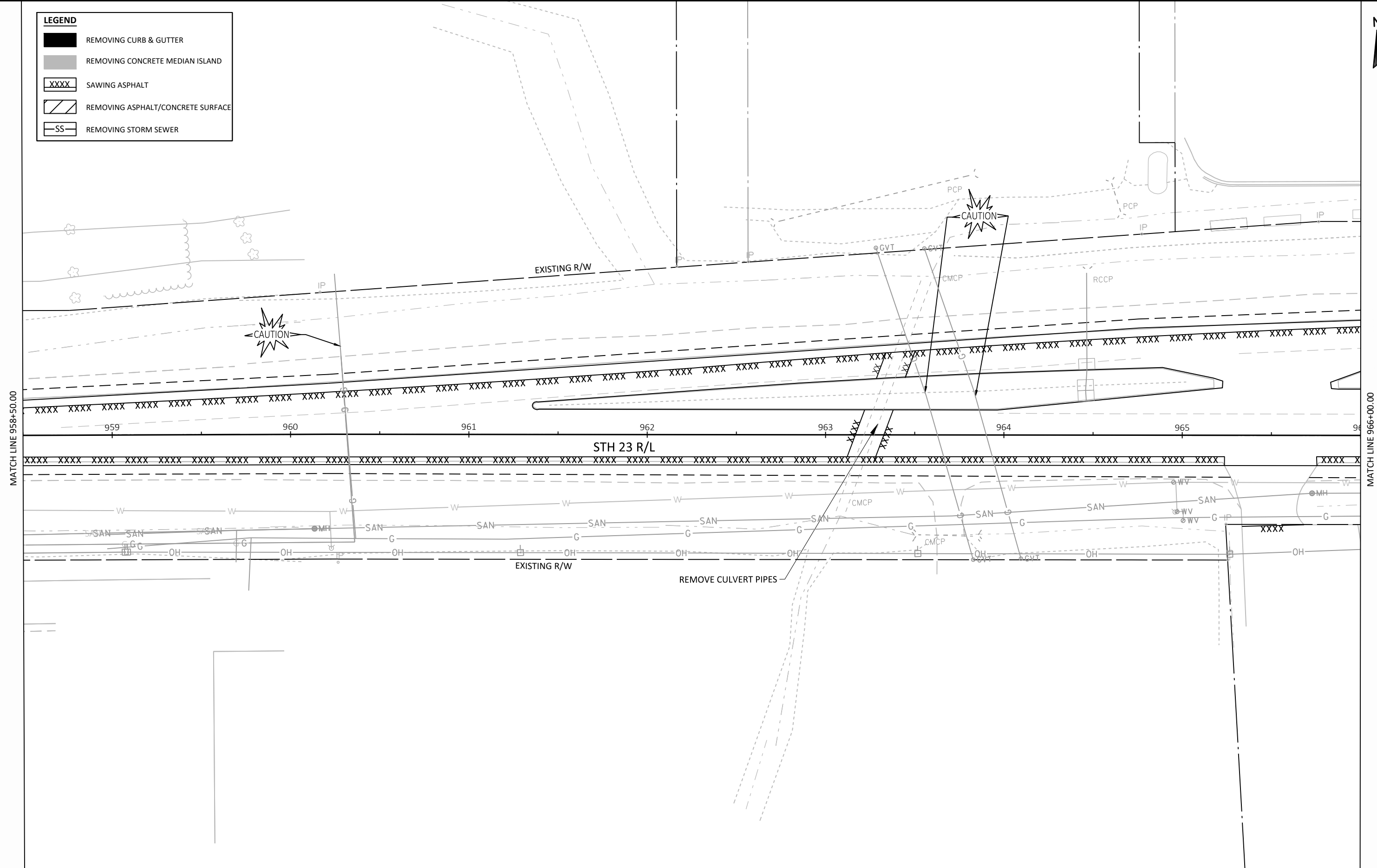
PROJECT NO: 1430-18-72/73	HWY: STH 23	COUNTY: FOND DU LAC	REMOVAL DETAILS	SHEET	E
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2

2



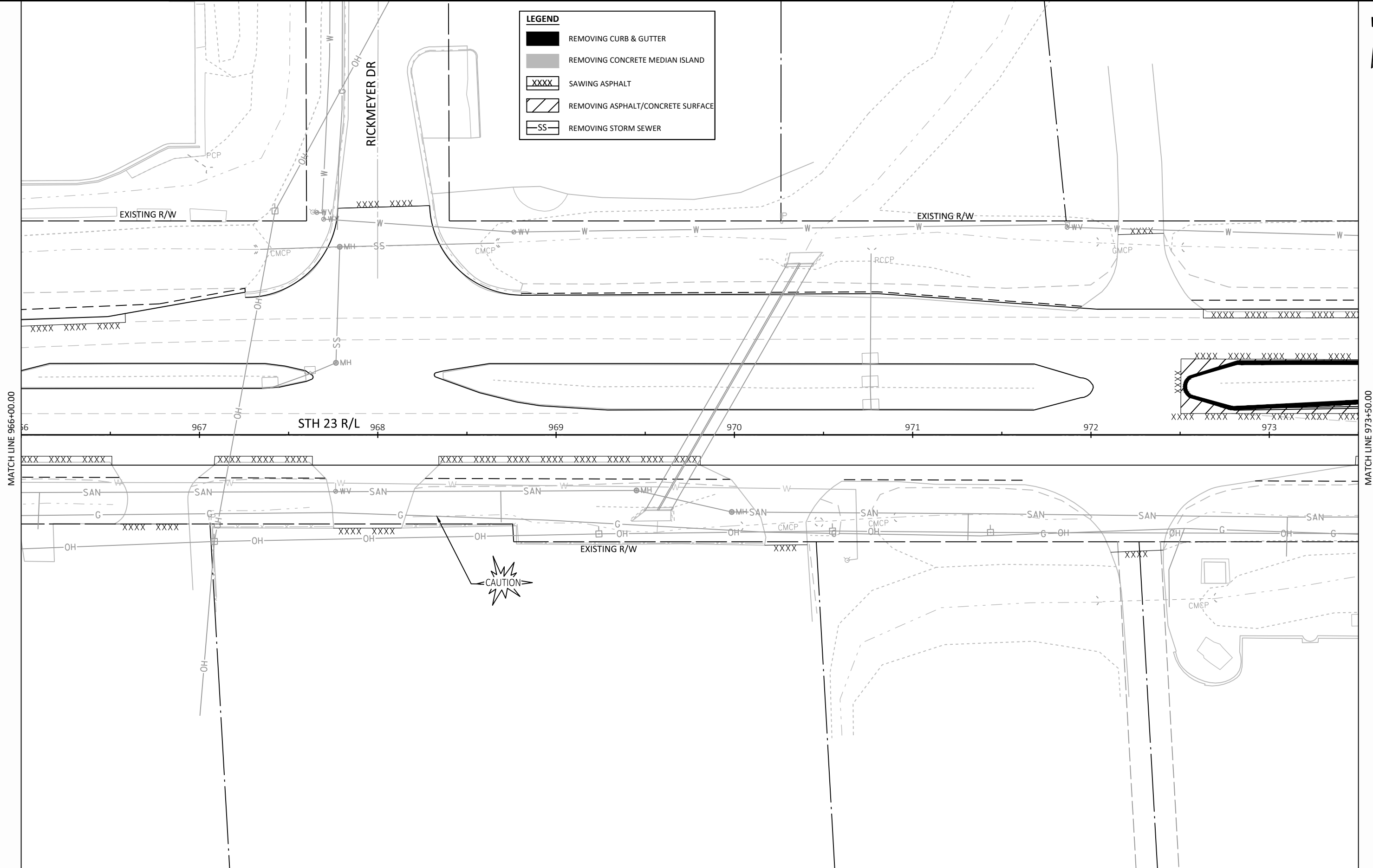
PROJECT NO:	1430-18-72/73	HWY: STH 23	COUNTY: FOND DU LAC	REMOVAL DETAILS	SHEET
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FILE NAME : N:\PDS\C3D\14301800\SHEETS\PLAN\1430-18-72-73\022401-RM.DWG PLOT DATE : 3/20/2018 8:05 AM PLOT BY : SMITH, JENNIFER B PLOT NAME : PLOT SCALE : 1 IN=50 FT
LAYOUT NAME - 022406-rm WISDOT/CADD'S SHEET

WISDOT/CADDS SHEET 42

2

2



PROJECT NO: 1430-18-72/73

HWY: STH 23

COUNTY: FOND DU LAC

REMOVAL DETAILS

SHEET

E

FILE NAME : N:\PDS\C3D\14301800\SHEETSPLAN\1430-18-72-73\022401-RM.DWG
LAYOUT NAME - 022407-rm

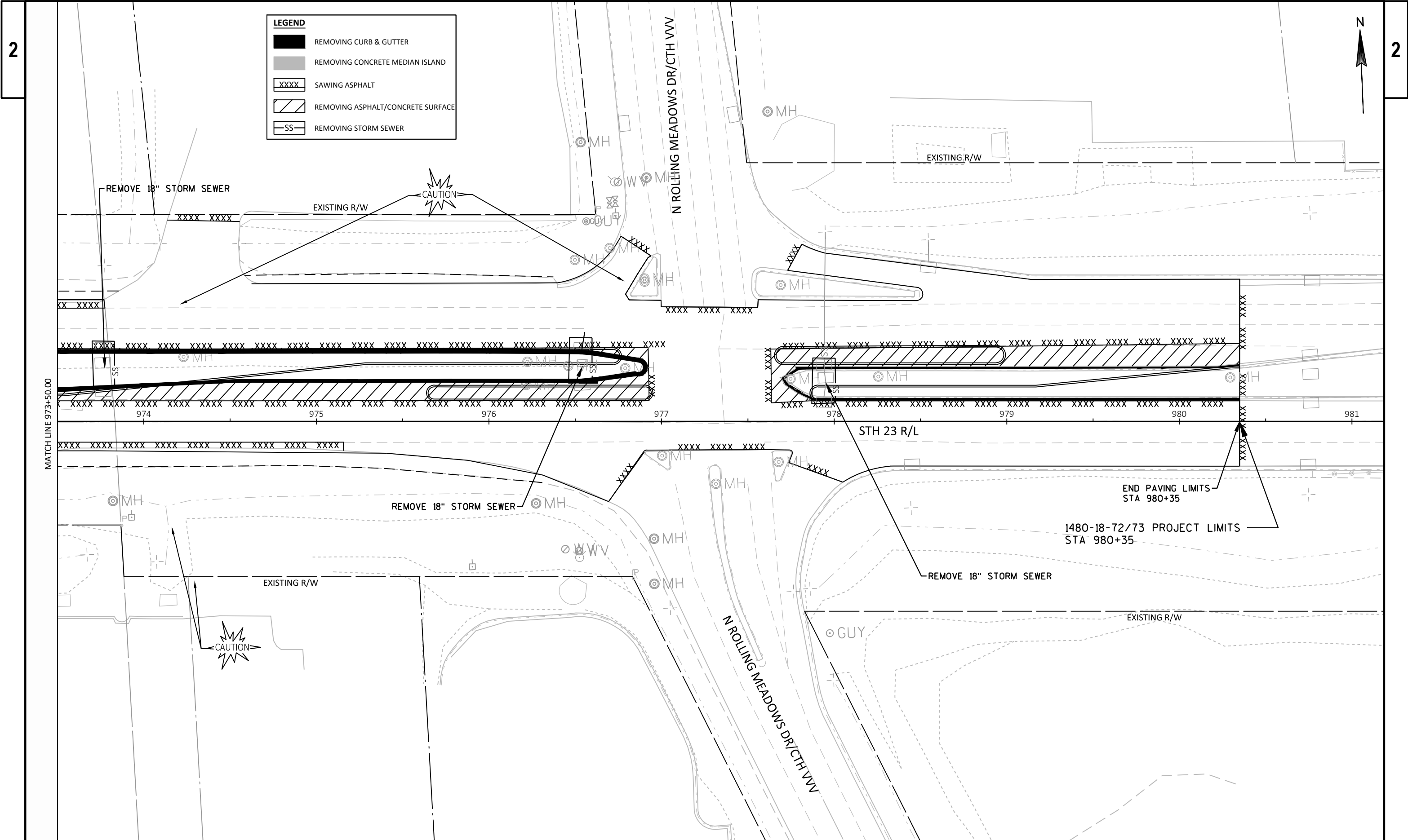
PLOT DATE : 3/20/2018 8:05 AM

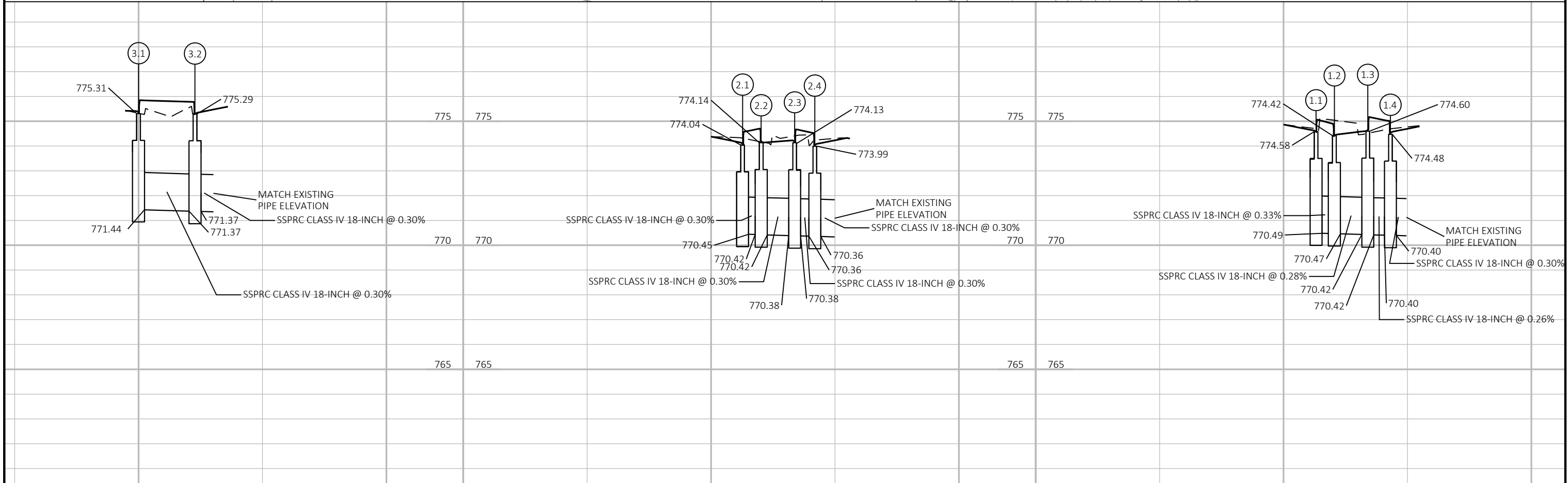
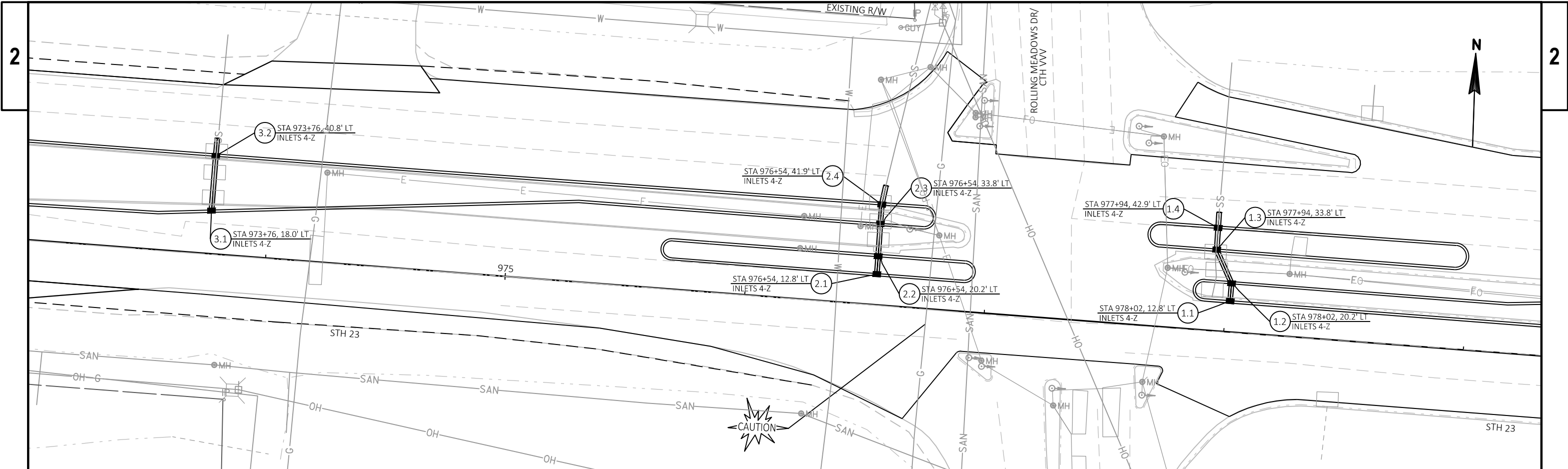
PLOT BY : SMITH, JENNIFER B

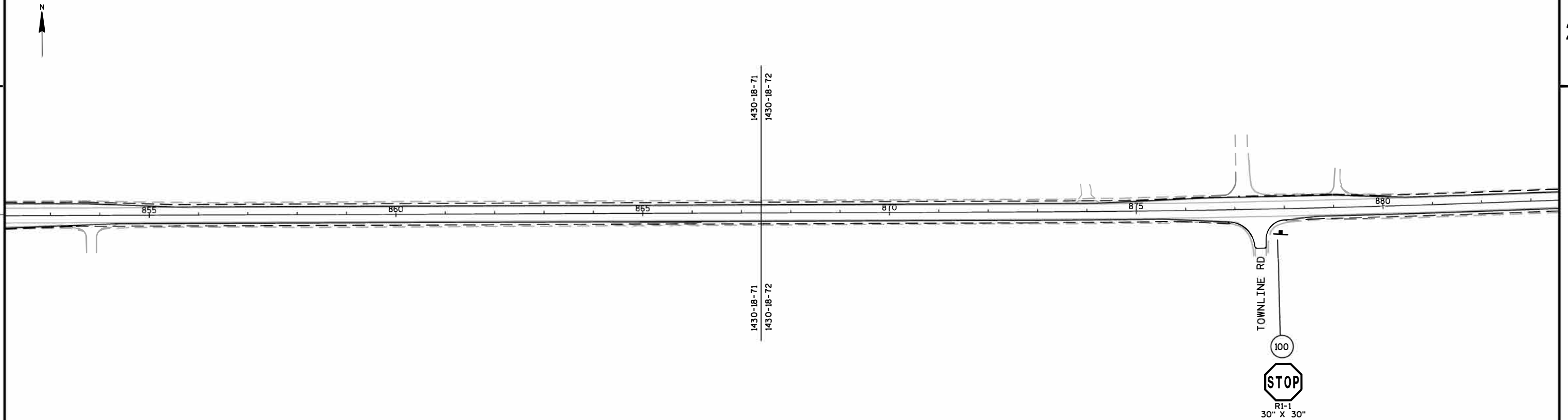
PLOT NAME :

PLOT SCALE : 1 IN:50 FT

WISDOT/CADDS SHEET 42







SIGNING NOTES

WHEN AN EXISTING STOP OR YIELD SIGN AND SUPPORT IS TO BE REMOVED AND A NEW STOP OR YIELD 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 POSTS SIZES, FOR TYPE II SIGNING, ARE ESTIMATED LENGTHS AND THE ACTUAL LENGTH WILL BE DETERMINED IN THE FIELD.

THE NUMBER OF "NO PASSING ZONE" SIGNS (W-14-3) ARE ESTIMATED AND THE ACTUAL NUMBER WILL BE DETERMINED AFTER THE ROADWAYS HAVE BEEN SPOTTED.

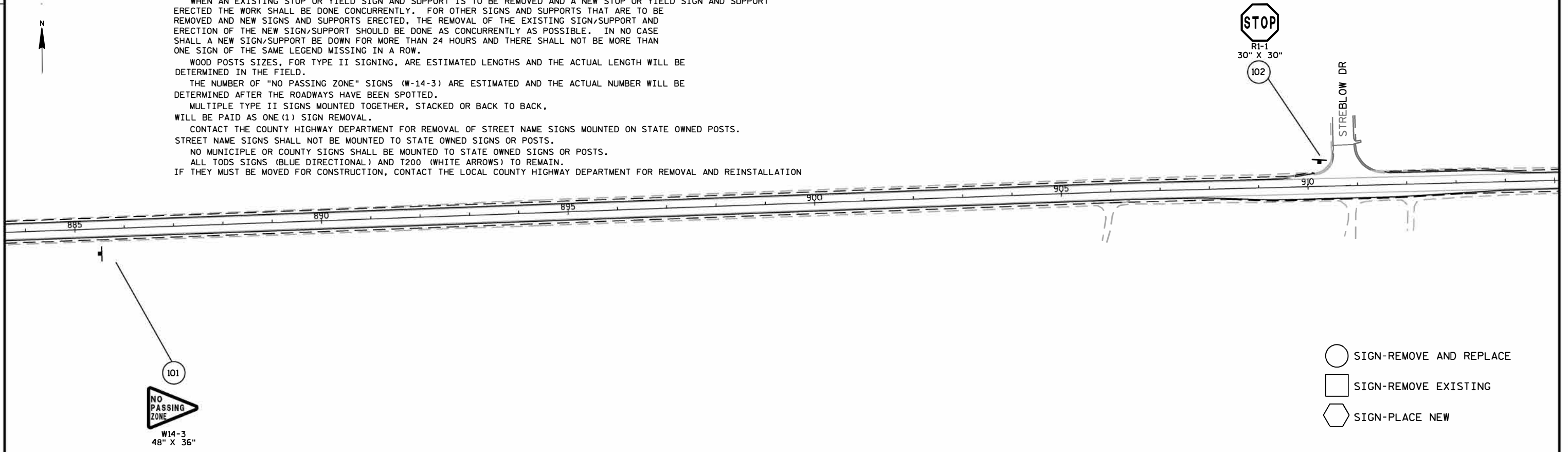
MULTIPLE TYPE II SIGNS MOUNTED TOGETHER, STACKED OR BACK TO BACK, WILL BE PAID AS ONE (1) SIGN REMOVAL.

CONTACT THE COUNTY HIGHWAY DEPARTMENT FOR REMOVAL OF STREET NAME SIGNS MOUNTED ON STATE OWNED POSTS. STREET NAME SIGNS SHALL NOT BE MOUNTED TO STATE OWNED SIGNS OR POSTS.

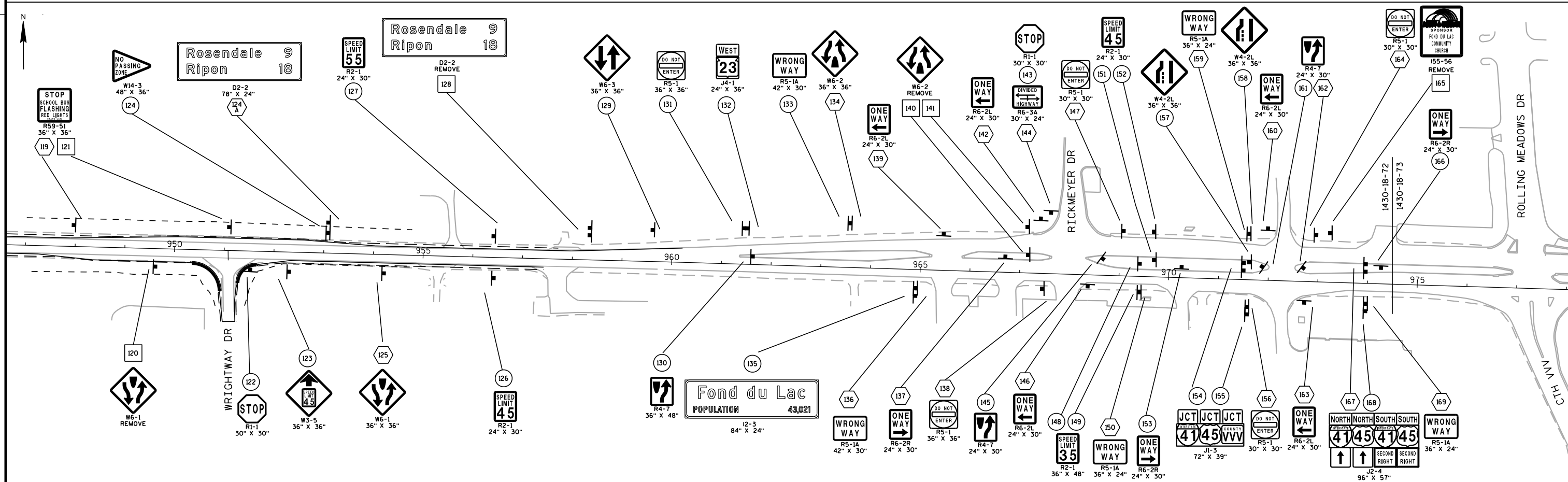
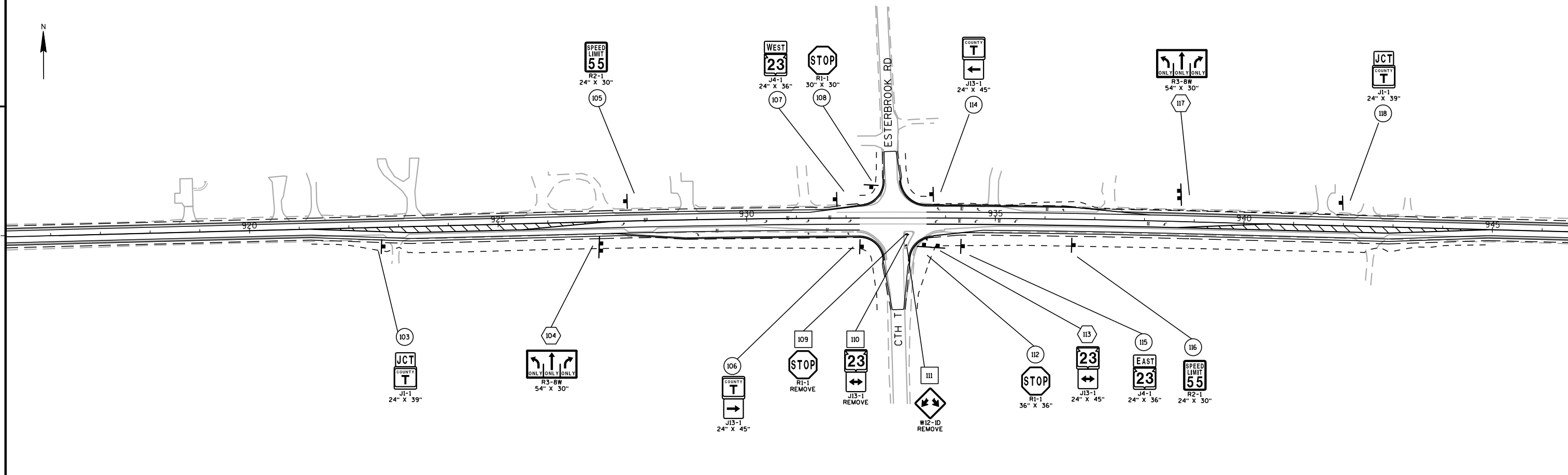
NO MUNICIPAL OR COUNTY SIGNS SHALL BE MOUNTED TO STATE OWNED SIGNS OR POSTS.

ALL TODS SIGNS (BLUE DIRECTIONAL) AND T200 (WHITE ARROWS) TO REMAIN.

IF THEY MUST BE MOVED FOR CONSTRUCTION, CONTACT THE LOCAL COUNTY HIGHWAY DEPARTMENT FOR REMOVAL AND REINSTALLATION



- SIGN-REMOVE AND REPLACE
- SIGN-REMOVE EXISTING
- SIGN-PLACE NEW



PROJECT NO:1430-18-72

HWY: STH 23

COUNTY: FOND DU LAC

PERMANENT SIGNING

SHEET

E

FILE NAME : N:\spo\traffic\SIGNING\Projects\1430-18-71.72.73\14301800_SIGNPLAN.dgn

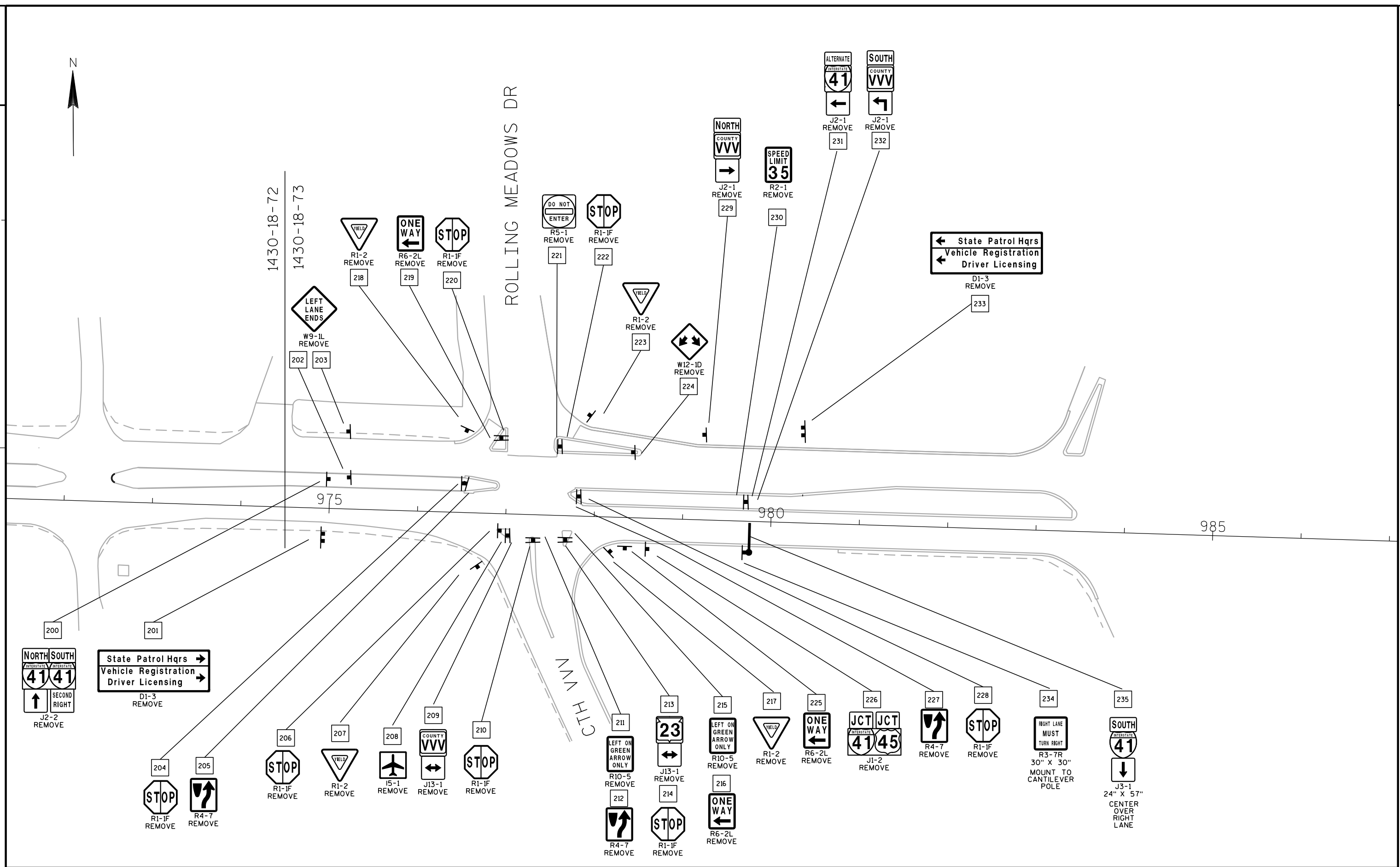
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PLOT BY : dotets

PLOT NAME :

PLOT SCALE : 200:1

WISDOT/CADS SHEET 42





2

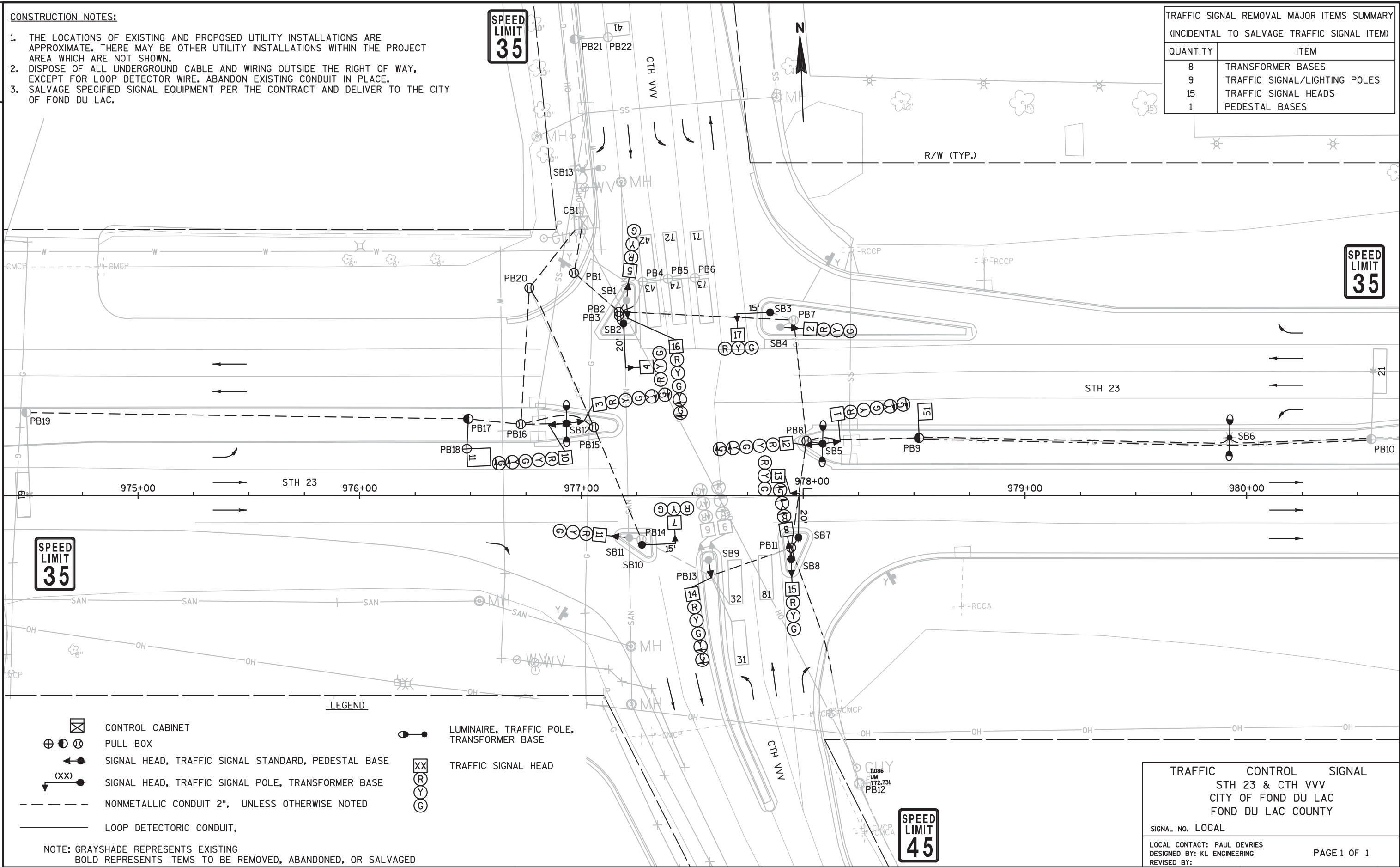
CONSTRUCTION NOTES:

1. THE LOCATIONS OF EXISTING AND PROPOSED UTILITY INSTALLATIONS ARE APPROXIMATE. THERE MAY BE OTHER UTILITY INSTALLATIONS WITHIN THE PROJECT AREA WHICH ARE NOT SHOWN.
2. DISPOSE OF ALL UNDERGROUND CABLE AND WIRING OUTSIDE THE RIGHT OF WAY, EXCEPT FOR LOOP DETECTOR WIRE. ABANDON EXISTING CONDUIT IN PLACE.
3. SALVAGE SPECIFIED SIGNAL EQUIPMENT PER THE CONTRACT AND DELIVER TO THE CITY OF FOND DU LAC.

SPEED
LIMIT
35

TRAFFIC SIGNAL REMOVAL MAJOR ITEMS SUMMARY (INCIDENTAL TO SALVAGE TRAFFIC SIGNAL ITEM)	
QUANTITY	ITEM
8	TRANSFORMER BASES
9	TRAFFIC SIGNAL/LIGHTING POLES
15	TRAFFIC SIGNAL HEADS
1	PEDESTAL BASES

2



LEGEND

- CONTROL CABINET
- PULL BOX
- SIGNAL HEAD, TRAFFIC SIGNAL STANDARD, PEDESTAL BASE
- SIGNAL HEAD, TRAFFIC SIGNAL POLE, TRANSFORMER BASE
- NONMETALLIC CONDUIT 2", UNLESS OTHERWISE NOTED
- LOOP DETECTORIC CONDUIT,
- LUMINAIRE, TRAFFIC POLE, TRANSFORMER BASE
- TRAFFIC SIGNAL HEAD

NOTE: GRAYSHADE REPRESENTS EXISTING
BOLD REPRESENTS ITEMS TO BE REMOVED, ABANDONED, OR SALVAGED

PROJECT NO:1430-18-73

HWY:STH 23

COUNTY:FOND DU LAC

TRAFFIC SIGNAL REMOVAL PLAN

SHEET

E

FILE NAME : G:\WDOTNE\14023-017\CIVIL 3D\SHEETSP\ANN024001-SR.DWG

PLOT DATE : 2/20/2018 4:09 PM

PLOT BY : KL ENGINEERING

PLOT NAME :

PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

TRAFFIC CONTROL SIGNAL
STH 23 & CTH VV
CITY OF FOND DU LAC
FOND DU LAC COUNTY

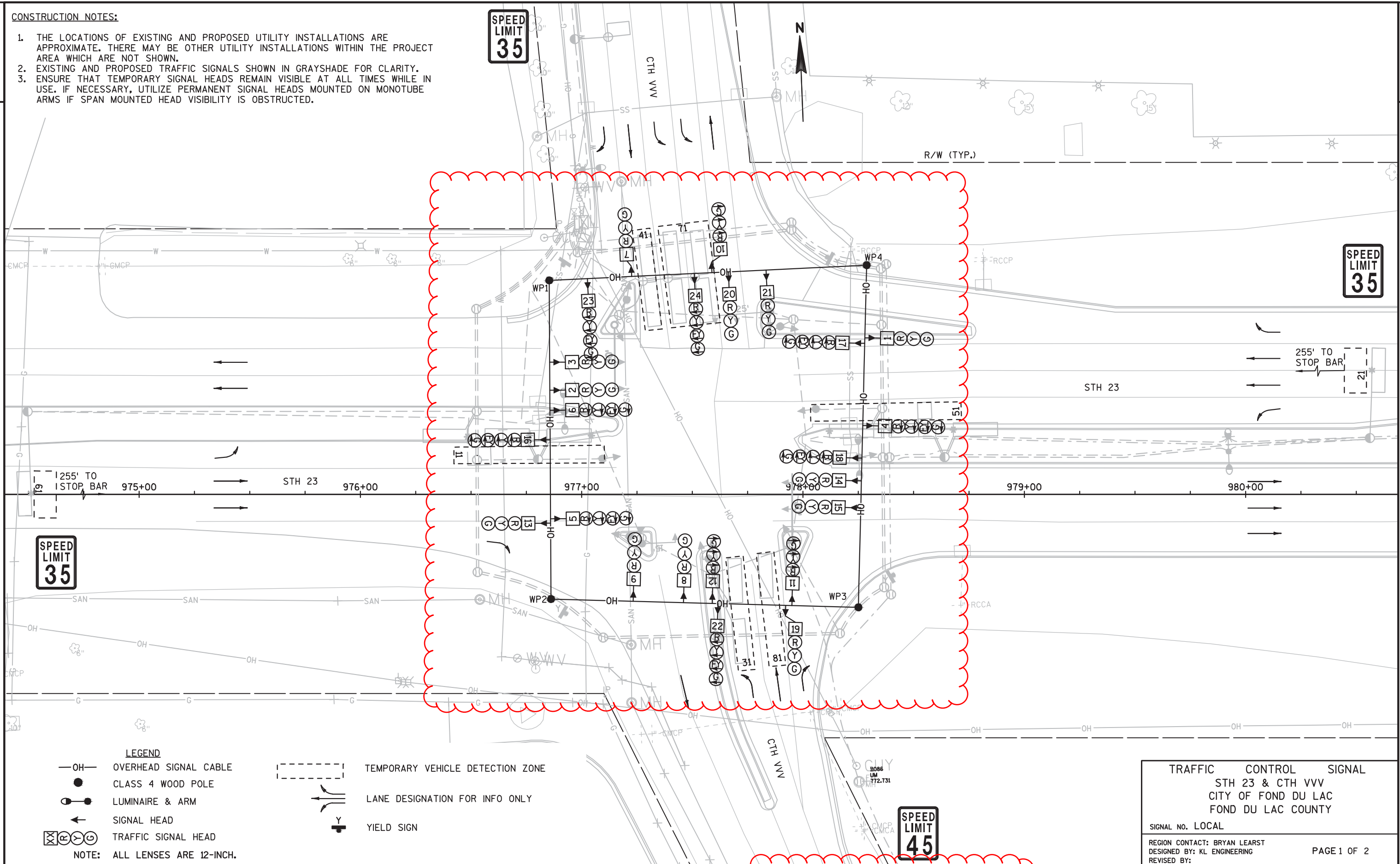
SIGNAL NO. LOCAL

LOCAL CONTACT: PAUL DEVRIES
DESIGNED BY: KL ENGINEERING
REVISED BY:

PAGE 1 OF 1

CONSTRUCTION NOTES:

1. THE LOCATIONS OF EXISTING AND PROPOSED UTILITY INSTALLATIONS ARE APPROXIMATE. THERE MAY BE OTHER UTILITY INSTALLATIONS WITHIN THE PROJECT AREA WHICH ARE NOT SHOWN.
2. EXISTING AND PROPOSED TRAFFIC SIGNALS SHOWN IN GRAYSHADE FOR CLARITY.
3. ENSURE THAT TEMPORARY SIGNAL HEADS REMAIN VISIBLE AT ALL TIMES WHILE IN USE. IF NECESSARY, UTILIZE PERMANENT SIGNAL HEADS MOUNTED ON MONOTUBE ARMS IF SPAN MOUNTED HEAD VISIBILITY IS OBSTRUCTED.



LEGEND

- OH— OVERHEAD SIGNAL CABLE
- CLASS 4 WOOD POLE
- LUMINAIRE & ARM
- ← SIGNAL HEAD
- ⊗ ⊙ ⊕ ⊖ TRAFFIC SIGNAL HEAD
- NOTE: ALL LENSES ARE 12-INCH.
- TEMPORARY VEHICLE DETECTION ZONE
- ↔ LANE DESIGNATION FOR INFO ONLY
- Y YIELD SIGN

TRAFFIC CONTROL SIGNAL
STH 23 & CTH VV
CITY OF FOND DU LAC
FOND DU LAC COUNTY

SIGNAL NO. LOCAL

REGION CONTACT: BRYAN LEARST
DESIGNED BY: KL ENGINEERING
REVISED BY:

PAGE 1 OF 2

PROJECT NO:1430-18-73

HWY:STH 23

COUNTY:FOND DU LAC

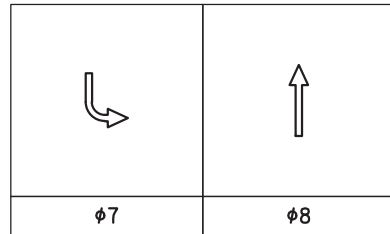
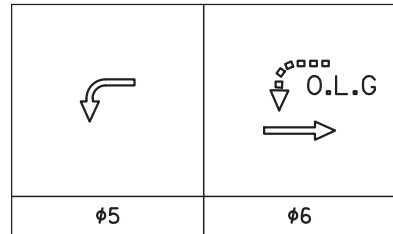
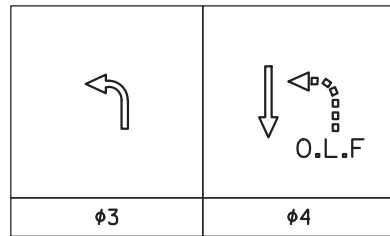
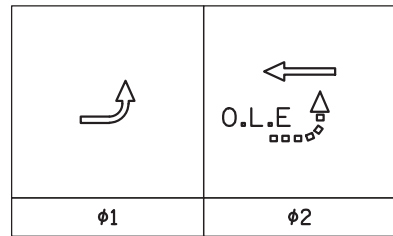
TEMPORARY TRAFFIC SIGNAL PLAN

SHEET

E

	HEAD NUMBERS	FASH
φ1	16-18	R
φ2	1-3	R
φ3	22-24	R
φ4	7-9	R
φ5	4-6	R
φ6	13-15	R
φ7	10-12	R
φ8	19-21	R
φ2 PED		
φ4 PED		
φ6 PED		
φ8 PED		
O.L.A		
O.L.B		
O.L.C		
O.L.D		
O.L.E	16-18	- φ2
O.L.F	22-24	- φ4
O.L.G	4-6	- φ6
O.L.H		

N



PREEMPTION ASSIGNMENTS			
PREEMPTION DESIGNATION	PREEMPTION TYPE	EVP CHANNEL	PHASE(S) CALLED
1	RESERVED	-	-
2	RESERVED	-	-
3	EVP	A	1+6
4	EVP	B	2+5
5	EVP	C	4+7
6	EVP	D	3+8
7	NOT USED	-	-
8	NOT USED	-	-
9	NOT USED	-	-
10	NOT USED	-	-

1. AFTER PREEMPTION SEQUENCE A OR B, CONTROLLER SHALL RETURN TO PHASE 2+6.
2. AFTER PREEMPTION SEQUENCE C OR D, CONTROLLER SHALL RETURN TO PHASE 4+8.

CONTROLLER LOGIC

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

TYPE OF PRE-EMPT

NONE	
RAILROAD	
EMERGENCY VEHICLE	X
GTT (GPS)	X
TOMAR	
HARDWIRE	
OTHER	
LIFT BRIDGE	
QUEUE DETECTOR	

CENTRAL SYSTEM

LOCATION OF MASTER
CONTROLLER NO.:
SIGNAL SYSTEM #:

TYPE OF LIGHTING

BY OTHER AGENCY	
IN TRAFFIC SIGNAL CABINET	X
IN SEPARATE LIGHTING CABINET	

DETECTOR LOGIC

DETECTOR INPUT	3	1	7	5	11	9	15	13
DETECTOR *(S)	11	21	31	41	51	61	71	81
PHASE CALLED	1	2	3	4	5	5	7	8
PHASE EXTENDED	1	2	3	4	5	5	7	8
DISCONNECT TIME								
CALLING DELAY								
EXTENSION STRETCH								
LOOP FUNCTION								

DETECTOR INPUT	4	2	8	6	12	10	16	14
DETECTOR *(S)								
PHASE CALLED								
PHASE EXTENDED								
DISCONNECT TIME								
CALLING DELAY								
EXTENSION STRETCH								
LOOP FUNCTION								

19	17	23	21	27	25	31	29
81							
8							
8							

20	18	24	22	28	26	32	30

DETECTOR INPUT
DETECTOR *(S)
PHASE CALLED
PHASE EXTENDED
DISCONNECT TIME
CALLING DELAY
EXTENSION STRETCH
LOOP FUNCTION

DETECTOR INPUT
DETECTOR *(S)
PHASE CALLED
PHASE EXTENDED
DISCONNECT TIME
CALLING DELAY
EXTENSION STRETCH
LOOP FUNCTION

TYPE OF INTERCONNECT

NONE	X
TBC	
CLOSED LOOP TWISTED PAIR	
CLOSED LOOP FIBER OPTIC	
RADIO	

TYPE OF REMOTE COMMUNICATION

NONE	X
FIBER	
CELL MODEM	
PHONE	

TRAFFIC CONTROL SIGNAL

STH 23 & CTH VVV
CITY OF FOND DU LAC
FOND DU LAC COUNTY

SIGNAL NO. LOCAL
CABINET TYPE:
CONTROLLER TYPE:

REGION CONTACT: BRYAN LEARST
DESIGNED BY: KL ENGINEERING
REVISED BY:

PAGE 2 OF 2

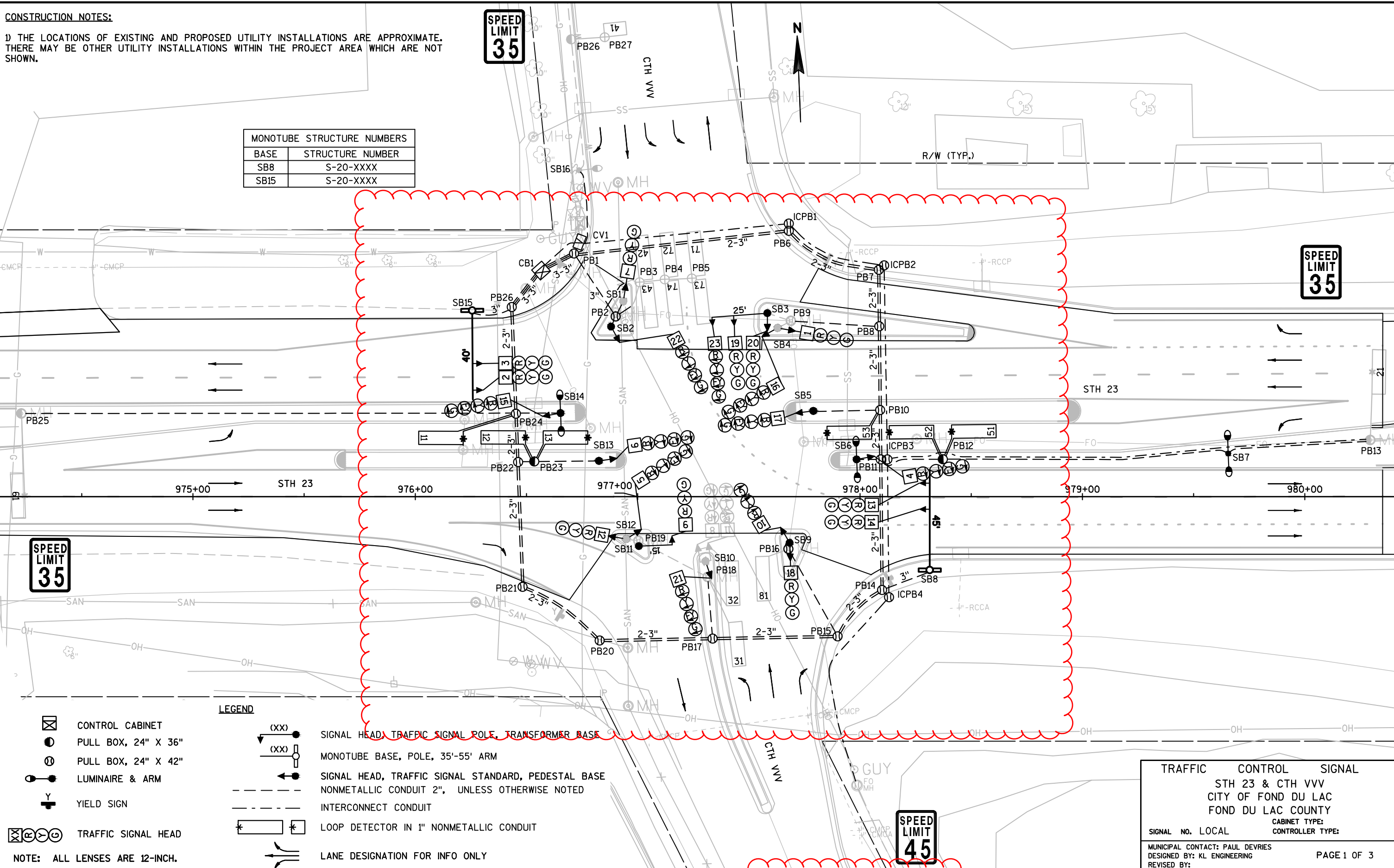
2

CONSTRUCTION NOTES:

1) THE LOCATIONS OF EXISTING AND PROPOSED UTILITY INSTALLATIONS ARE APPROXIMATE. THERE MAY BE OTHER UTILITY INSTALLATIONS WITHIN THE PROJECT AREA WHICH ARE NOT SHOWN.

2

MONOTUBE STRUCTURE NUMBERS	
BASE	STRUCTURE NUMBER
SB8	S-20-XXXX
SB15	S-20-XXXX



- LEGEND
- CONTROL CABINET
 - PULL BOX, 24" X 36"
 - PULL BOX, 24" X 42"
 - LUMINAIRE & ARM
 - YIELD SIGN
 - TRAFFIC SIGNAL HEAD
 - NOTE: ALL LENSES ARE 12-INCH.

- (XX) SIGNAL HEAD, TRAFFIC SIGNAL POLE, TRANSFORMER BASE
- (XX) MONOTUBE BASE, POLE, 35'-55' ARM
- SIGNAL HEAD, TRAFFIC SIGNAL STANDARD, PEDESTAL BASE
- NONMETALLIC CONDUIT 2", UNLESS OTHERWISE NOTED
- INTERCONNECT CONDUIT
- LOOP DETECTOR IN 1" NONMETALLIC CONDUIT
- LANE DESIGNATION FOR INFO ONLY

TRAFFIC CONTROL SIGNAL
STH 23 & CTH VVV
CITY OF FOND DU LAC
FOND DU LAC COUNTY

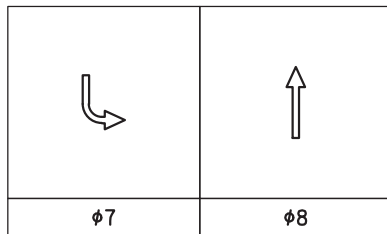
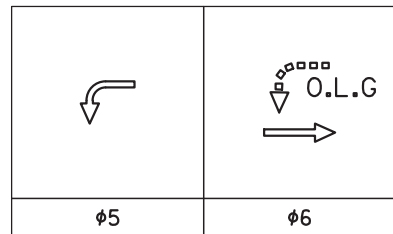
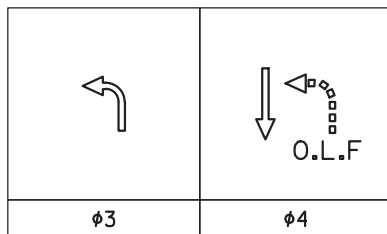
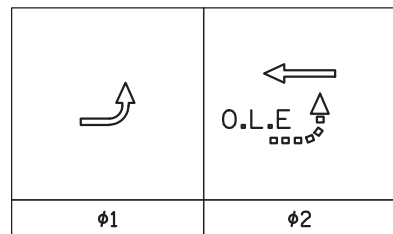
SIGNAL NO. LOCAL
CABINET TYPE:
CONTROLLER TYPE:

MUNICIPAL CONTACT: PAUL DEVRIES
DESIGNED BY: KL ENGINEERING
REVISED BY:

PAGE 1 OF 3

	HEAD NUMBERS	FASH
φ1	15-17	R
φ2	1-3	R
φ3	21-23	R
φ4	7-9	R
φ5	4-6	R
φ6	12-14	R
φ7	10-11	R
φ8	18-20	R
φ2 PED		
φ4 PED		
φ6 PED		
φ8 PED		
O.L.A		
O.L.B		
O.L.C		
O.L.D		
O.L.E	15-17	- φ2
O.L.F	21-23	- φ4
O.L.G	4-6	- φ6
O.L.H		

N



PREEMPTION ASSIGNMENTS			
PREEMPTION DESIGNATION	PREEMPTION TYPE	EVP CHANNEL	PHASE(S) CALLED
1	RESERVED	-	-
2	RESERVED	-	-
3	EVP	A	1+6
4	EVP	B	2+5
5	EVP	C	4+7
6	EVP	D	3+8
7	NOT USED	-	-
8	NOT USED	-	-
9	NOT USED	-	-
10	NOT USED	-	-

1. AFTER PREEMPTION SEQUENCE A OR B, CONTROLLER SHALL RETURN TO PHASE 2+6.
2. AFTER PREEMPTION SEQUENCE C OR D, CONTROLLER SHALL RETURN TO PHASE 4+8.

CONTROLLER LOGIC

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

TYPE OF PRE-EMPT

NONE	
RAILROAD	
EMERGENCY VEHICLE	X
GTT (GPS)	X
TOMAR	
HARDWIRE	
OTHER	
LIFT BRIDGE	
QUEUE DETECTOR	

CENTRAL SYSTEM

LOCATION OF MASTER
CONTROLLER NO.:
SIGNAL SYSTEM #:

TYPE OF LIGHTING

BY OTHER AGENCY	
IN TRAFFIC SIGNAL CABINET	X
IN SEPARATE LIGHTING CABINET	

DETECTOR LOGIC

DETECTOR INPUT	3	1	7	5	11	9	15	13
DETECTOR *(S)	12		32	42	52		73	74
PHASE CALLED	1		3	4	5		7	7
PHASE EXTENDED	1		3	4	5			
DISCONNECT TIME								
CALLING DELAY								
EXTENSION STRETCH								
LOOP FUNCTION								

DETECTOR INPUT	4	2	8	6	12	10	16	14
DETECTOR *(S)	11	21	31	41	51	61	71	72
PHASE CALLED	1	2	3	4	5		7	7
PHASE EXTENDED	1	2	3	4	5		7	7
DISCONNECT TIME								
CALLING DELAY								
EXTENSION STRETCH								
LOOP FUNCTION								

19	17	23	21	27	25	31	29
81							
8							
8							

DETECTOR INPUT
DETECTOR *(S)
PHASE CALLED
PHASE EXTENDED
DISCONNECT TIME
CALLING DELAY
EXTENSION STRETCH
LOOP FUNCTION

20	18	24	22	28	26	32	30

DETECTOR INPUT
DETECTOR *(S)
PHASE CALLED
PHASE EXTENDED
DISCONNECT TIME
CALLING DELAY
EXTENSION STRETCH
LOOP FUNCTION

TYPE OF INTERCONNECT

NONE	
TBC	
CLOSED LOOP TWISTED PAIR	
CLOSED LOOP FIBER OPTIC	X
RADIO	

TYPE OF REMOTE COMMUNICATION

NONE	
FIBER	X
CELL MODEM	
PHONE	

TRAFFIC CONTROL SIGNAL
STH 23 & CTH VVV
CITY OF FOND DU LAC
FOND DU LAC COUNTY
CABINET TYPE:
SIGNAL NO. LOCAL CONTROLLER TYPE:

MUNICIPAL CONTACT: PAUL DEVRIES
DESIGNED BY: KL ENGINEERING
REVISED BY:

PAGE 2 OF 3

PROJECT ID:	1430-18-73
INTERSECTION:	STH 23 & CTH VVV

SIGNAL WIRE COLOR CODING	BLK-BLACK	RED - RED	GRN - GREEN
	WHT - WHITE	BLU - BLUE	ORG - ORANGE

CB1 TO	NO. OF CONDUCTORS	HEAD NO.	PHASE	SIGNAL INDICATION WIRE COLOR								PED BUTTON	OTHER
				RED	YELLOW	GREEN	<RED>	<YELLOW>	<GREEN>	<FLASHING YELLOW>	D/WALK	WALK	
SB1	12	7	4	RED	ORG	GRN							
SB2	12	2	2	RED	ORG	GRN							
		3	2	RED	ORG	GRN							
		22	3, O.L.F				RED/BLK	ORG/BLK	GRN/BLK	BLK/WHT			
SB3	12	19	8	RED	ORG	GRN							
		20	8	RED	ORG	GRN							
		23	3, O.L.F				RED/BLK	ORG/BLK	GRN/BLK	BLK/WHT			
SB4	12	1	2	RED	ORG	GRN							
		16	1,O.L.E				RED/BLK	ORG/BLK	GRN/BLK	BLK/WHT			
SB5	12	17	1,O.L.E				RED/BLK	ORG/BLK	GRN/BLK	BLK/WHT			
SB6	12	4	5,O.L.G				RED/BLK	ORG/BLK	GRN/BLK	BLK/WHT			
SB8	12	10	7				RED/BLK	ORG/BLK	GRN/BLK				
		13	6	RED	ORG	GRN							
		14	6	RED	ORG	GRN							
		18	8	BLK	WHT/BLK	BLU							
SB9	12	8	4	RED	ORG	GRN							
		11	7				RED/BLK	ORG/BLK	GRN/BLK				
		21	3, O.L.F				BLK	WHT/BLK	BLU	BLK/WHT			
SB10	12	9	4	RED	ORG	GRN							
SB11	12	5	5,O.L.G				RED/BLK	ORG/BLK	GRN/BLK	BLK/WHT			
		12	6	RED	ORG	GRN							
SB12	12	6	5,O.L.G				RED/BLK	ORG/BLK	GRN/BLK	BLK/WHT			
SB13	12	15	1,O.L.E				RED/BLK	ORG/BLK	GRN/BLK	BLK/WHT			

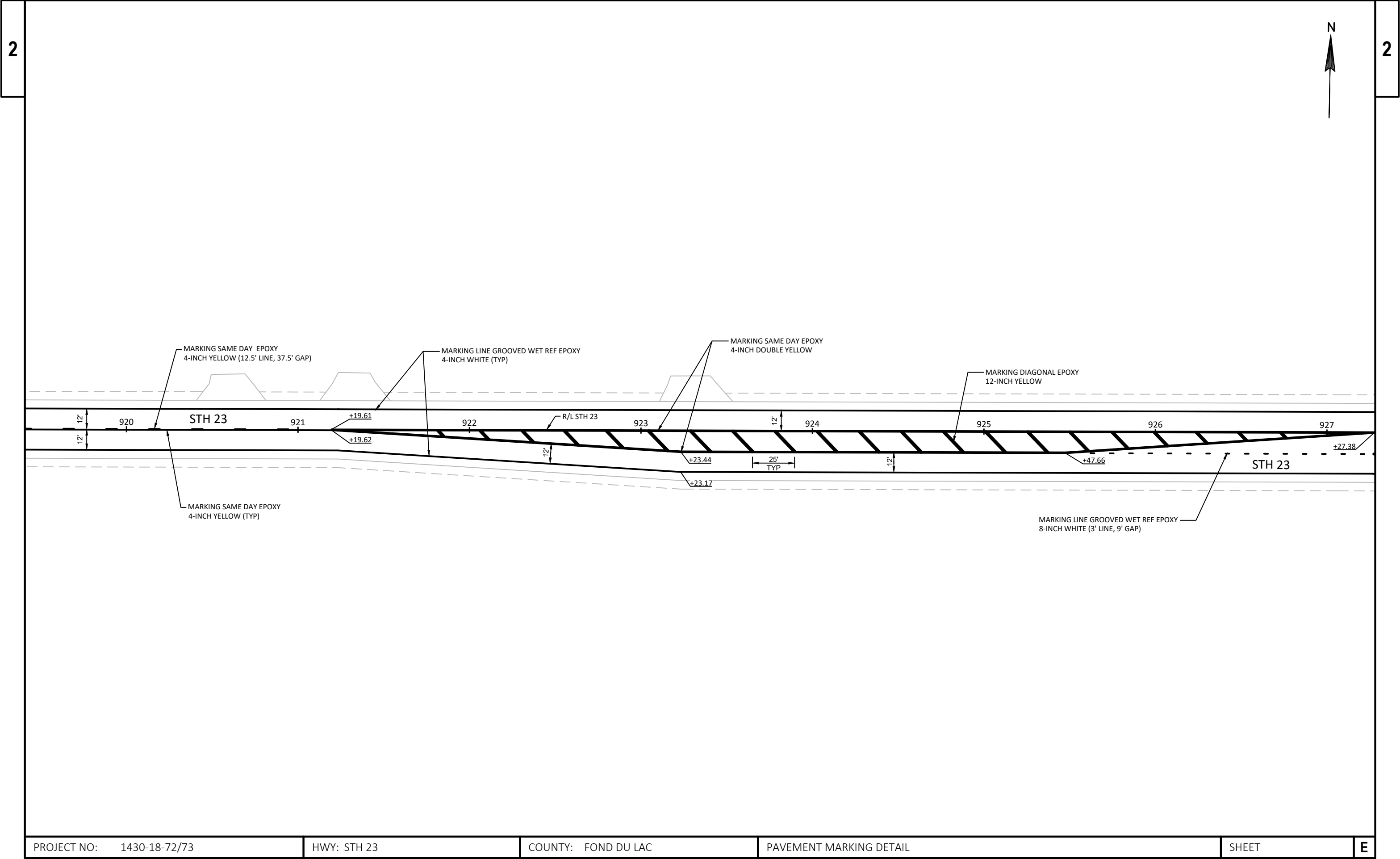
NOTE: USE THE WHITE CONDUCTOR AS THE GROUND CONDUCTOR FOR ALL TRAFFIC SIGNAL INDICATIONS.

EQUIPMENT GROUNDING CONDUCTOR 10 AWG	
FROM	TO
CB1	SB1
SB1	SB2
SB2	SB3
SB3	SB4
SB4	SB5
SB5	SB6
SB6	SB7
SB7	SB8
SB8	SB9
SB9	SB10
SB10	SB11
SB11	SB12
SB12	SB13
SB13	CB1

EMERGENCY VEHICLE PREEMPTION CABLE	
FROM	TO
CB1	GPS REC.

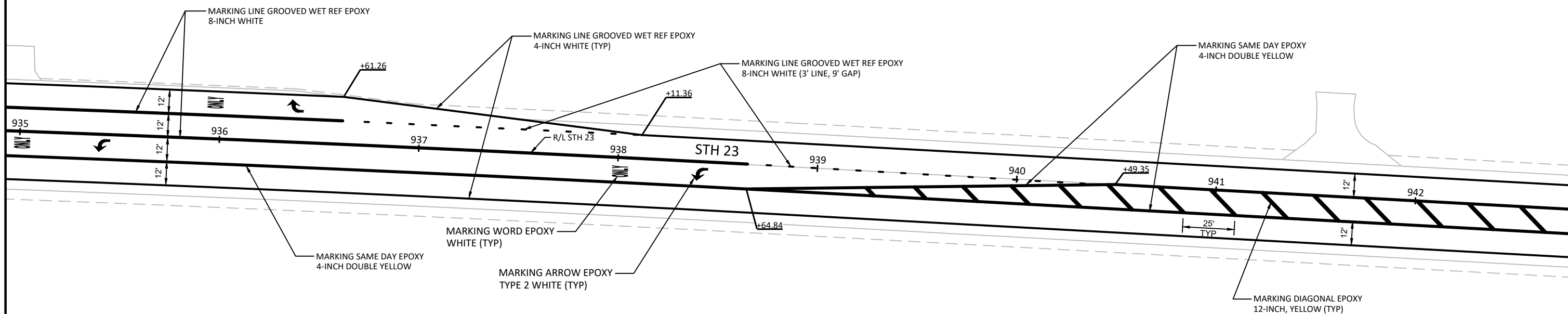
LIGHTING UF 2-12 AWG W/GROUND	
FROM	TO
CB1	SB13
CB1	SB14
CB1	SB6
CB1	SB7

TRAFFIC CONTROL SIGNAL	
STH 23 & CTH VVV	
CITY OF FOND DU LAC	
FOND DU LAC COUNTY	
CABINET TYPE:	
SIGNAL NO. LOCAL	CONTROLLER TYPE:
MUNICIPAL CONTACT: PAUL DEVRIES	
DESIGNED BY: KL ENGINEERING	
REVISED BY:	
PAGE 3 OF 3	

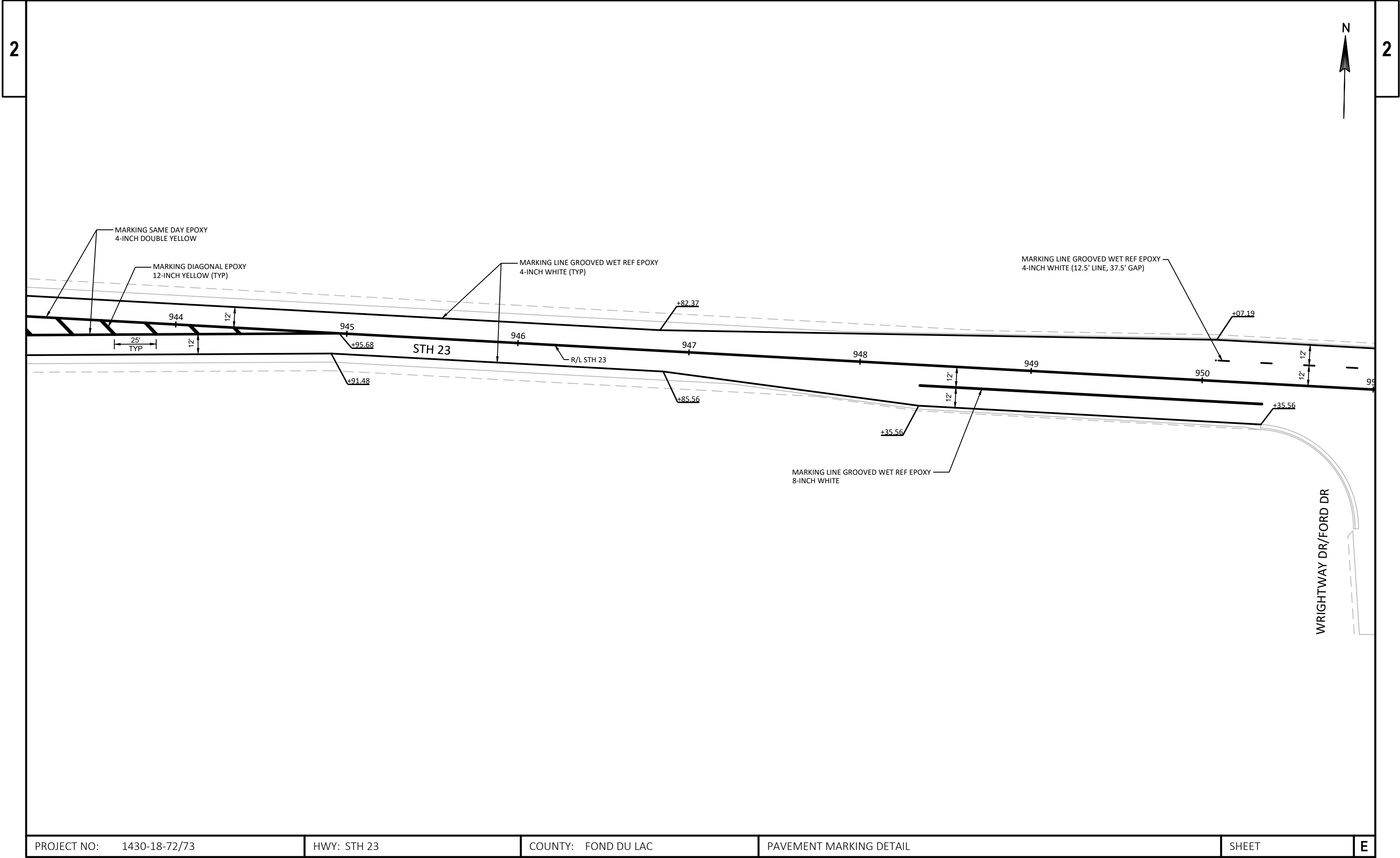


PROJECT NO: 1430-18-72/73	HWY: STH 23	COUNTY: FOND DU LAC	PAVEMENT MARKING DETAIL	SHEET	E
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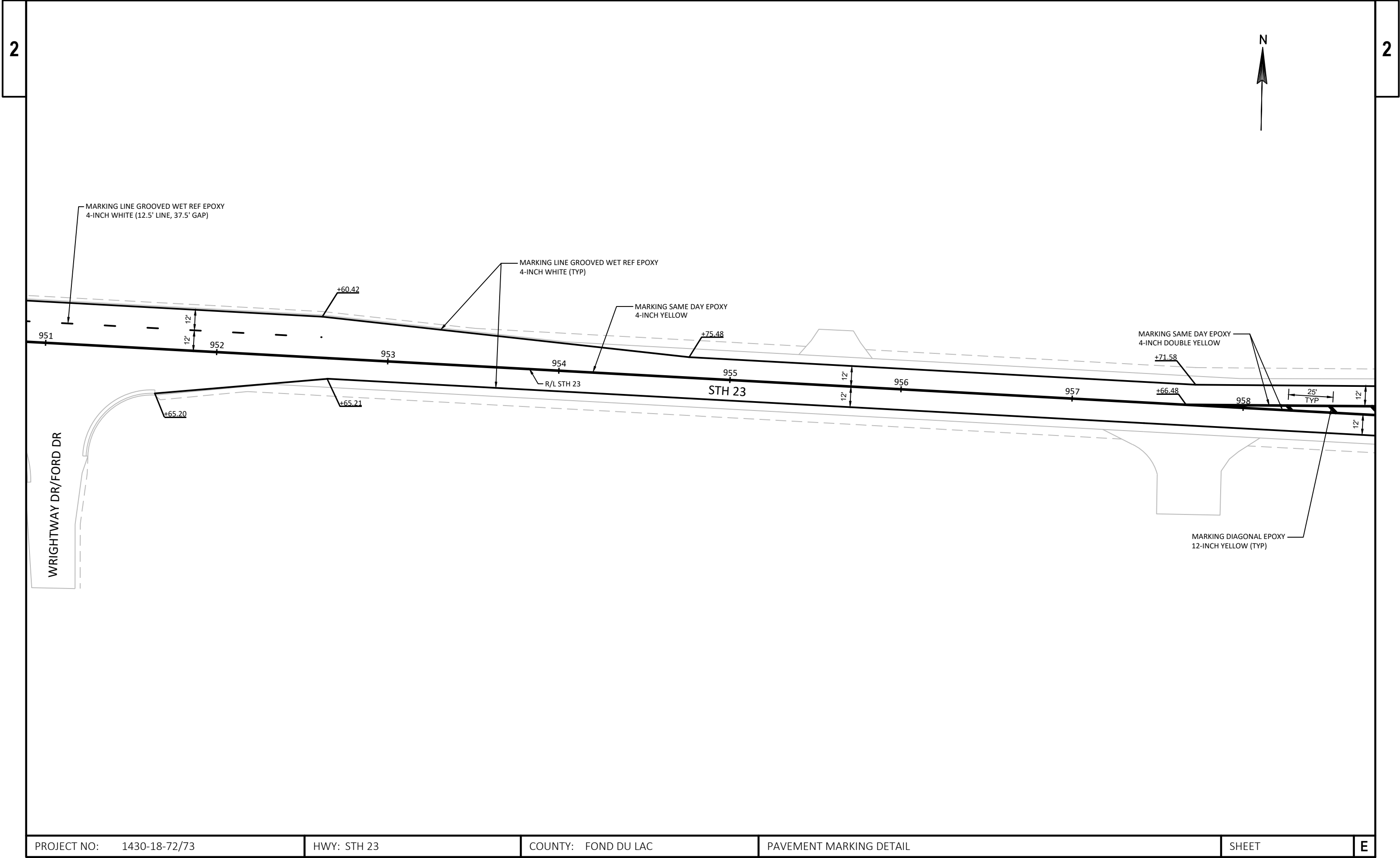


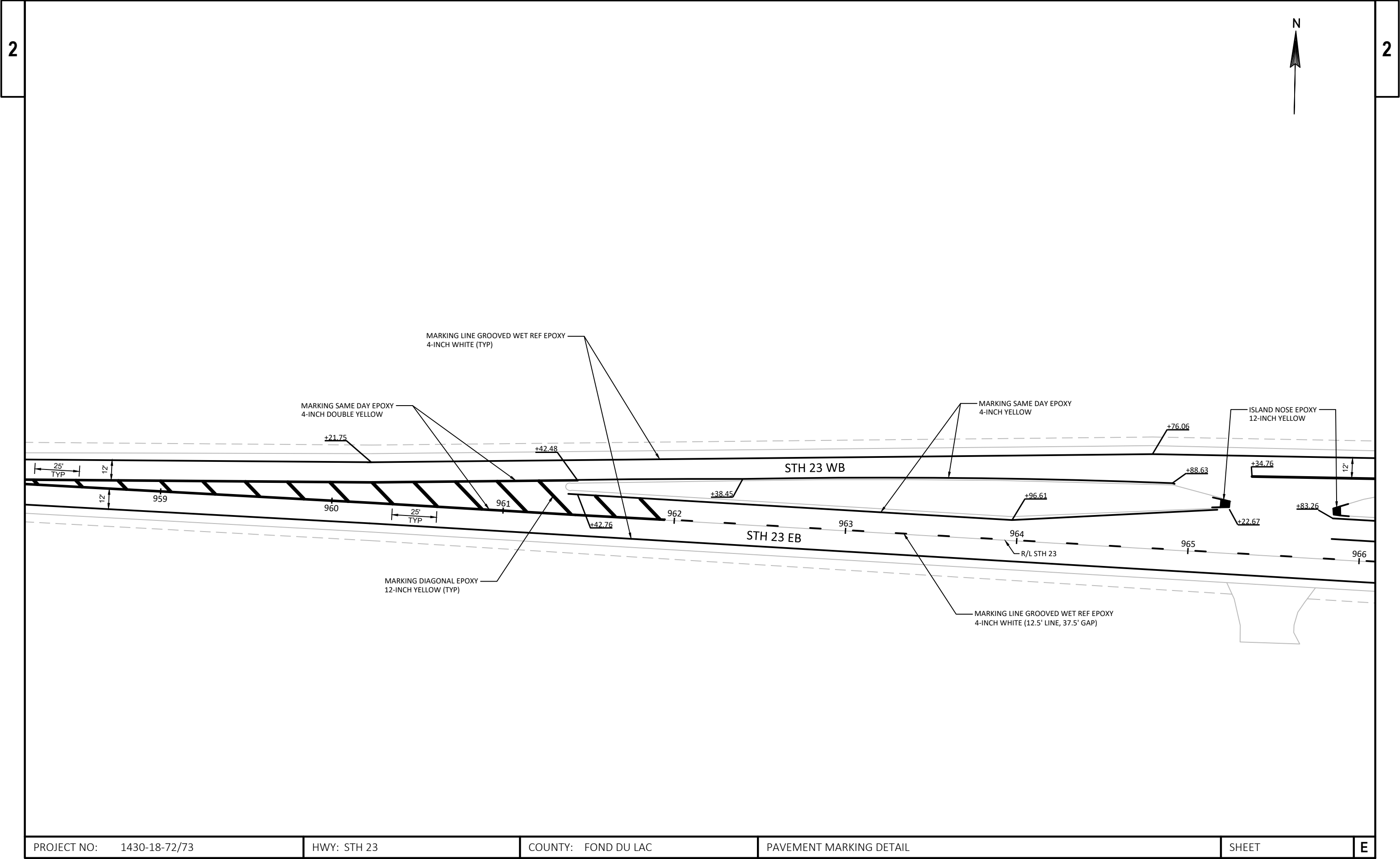


PROJECT NO: 1430-18-72/73	HWY: STH 23	COUNTY: FOND DU LAC	PAVEMENT MARKING DETAIL	SHEET	E
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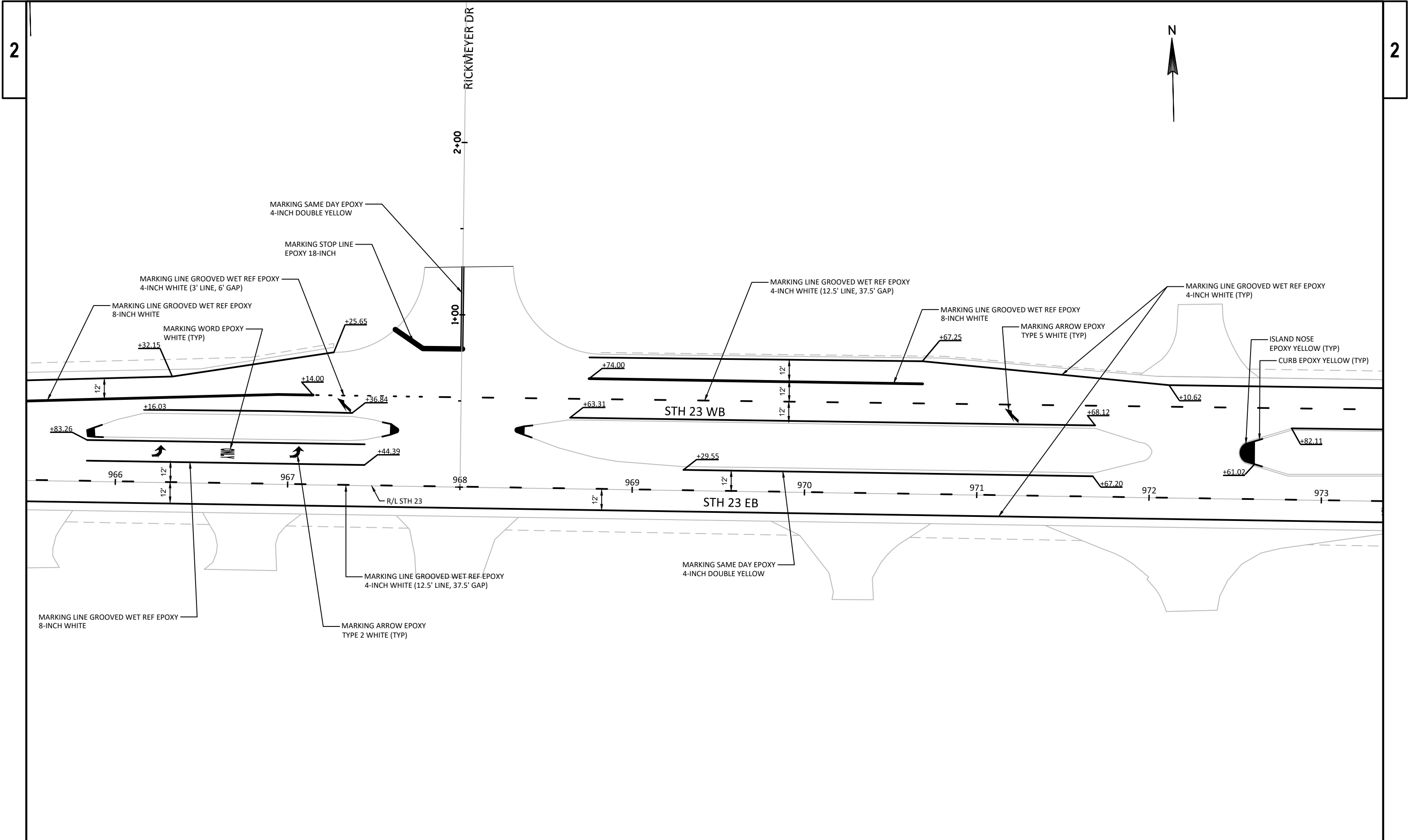


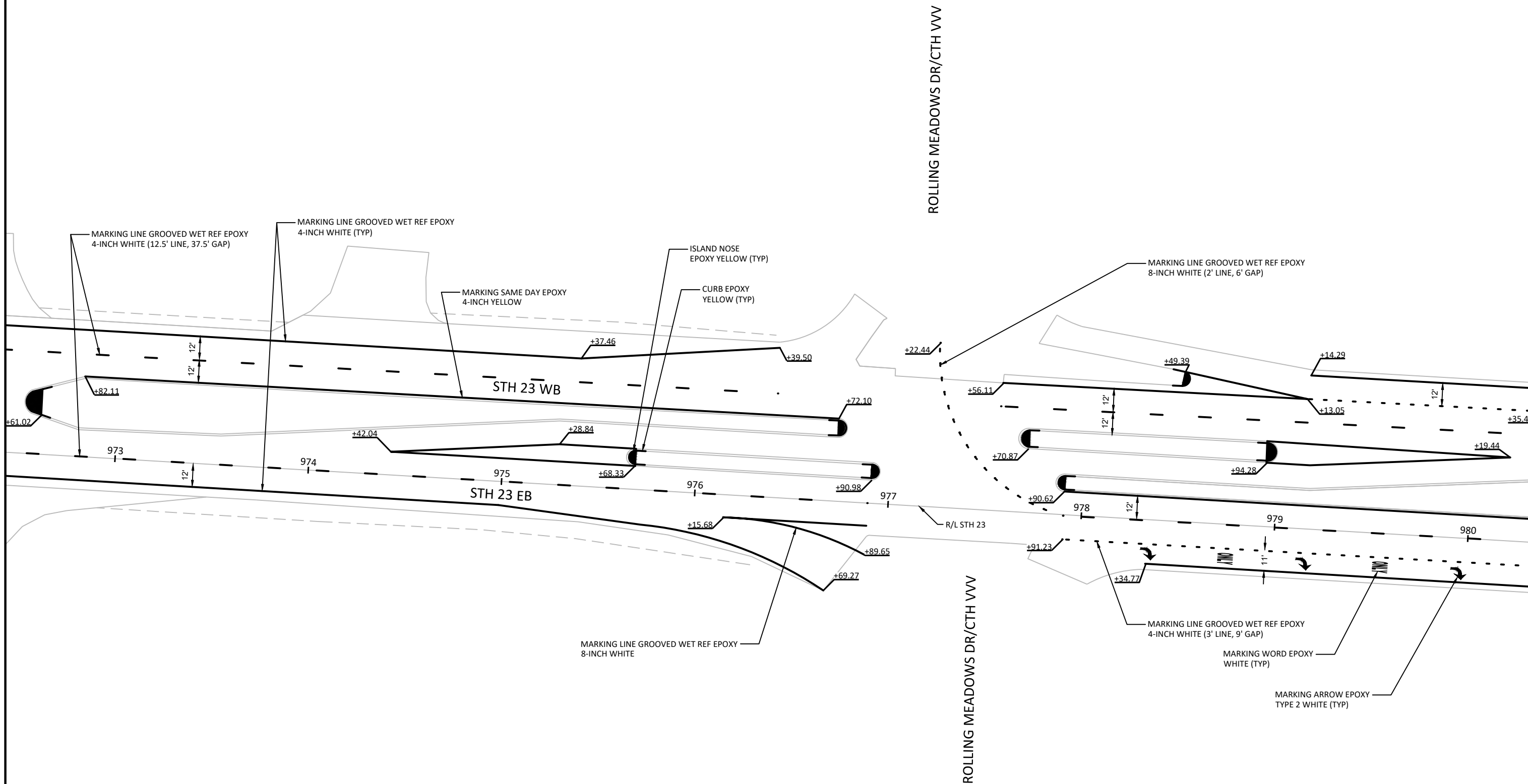
PROJECT NO: 1430-18-72/73	HWY: STH 23	COUNTY: FOND DU LAC	PAVEMENT MARKING DETAIL	SHEET	E
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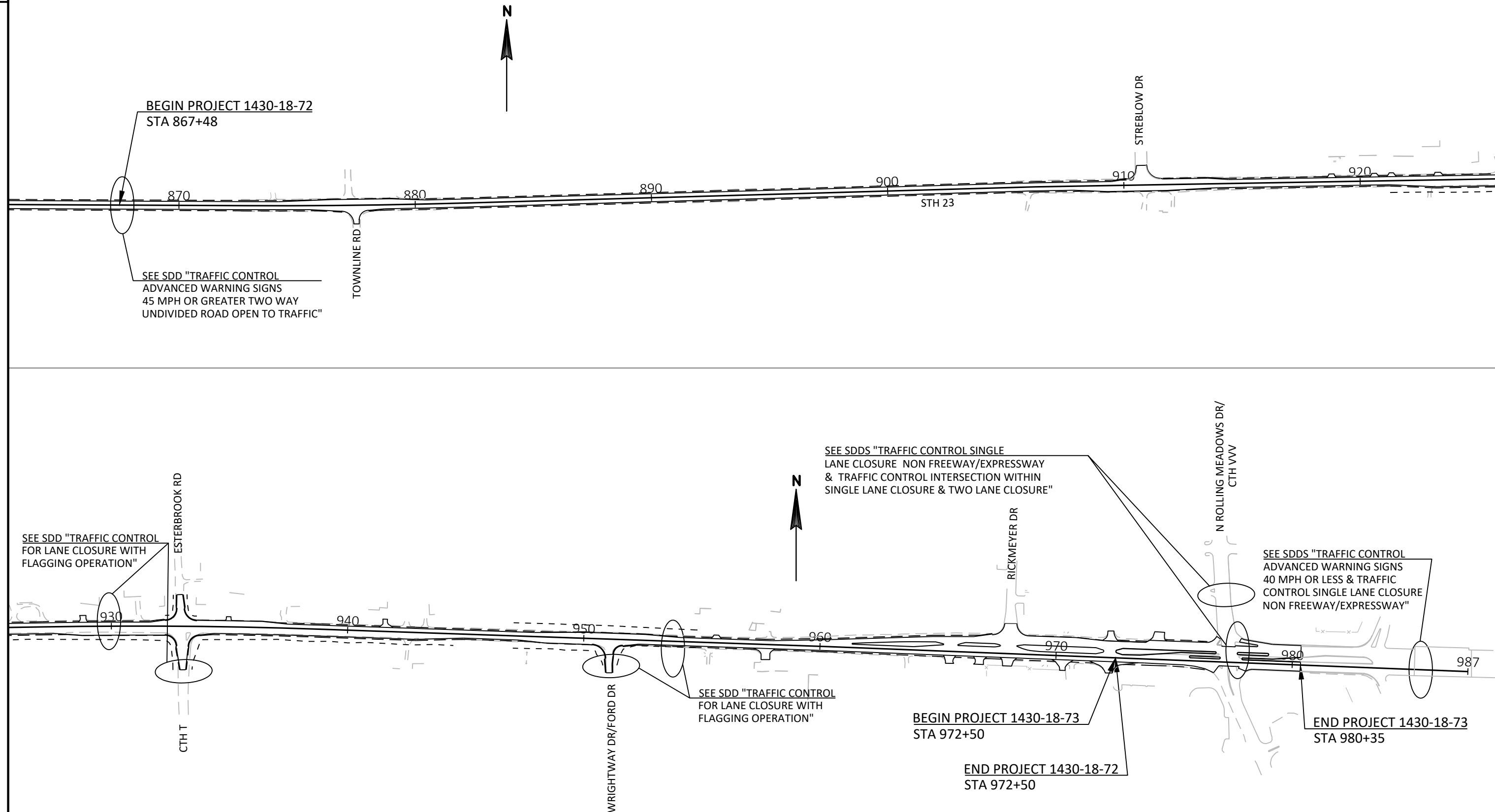




PROJECT NO: 1430-18-72/73	HWY: STH 23	COUNTY: FOND DU LAC	PAVEMENT MARKING DETAIL	SHEET	E
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PROJECT NO: 1430-18-72/73

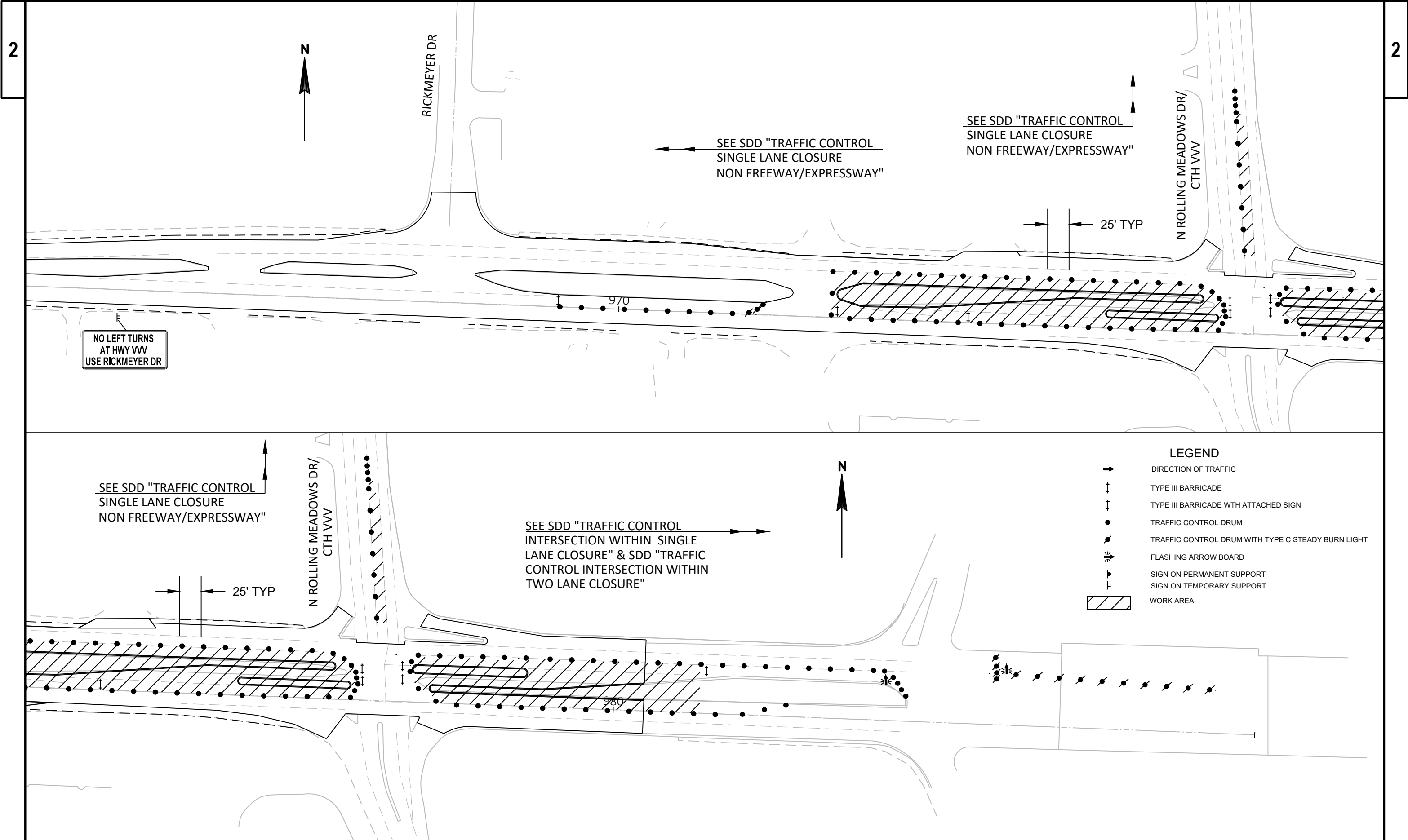
HWY: STH 23

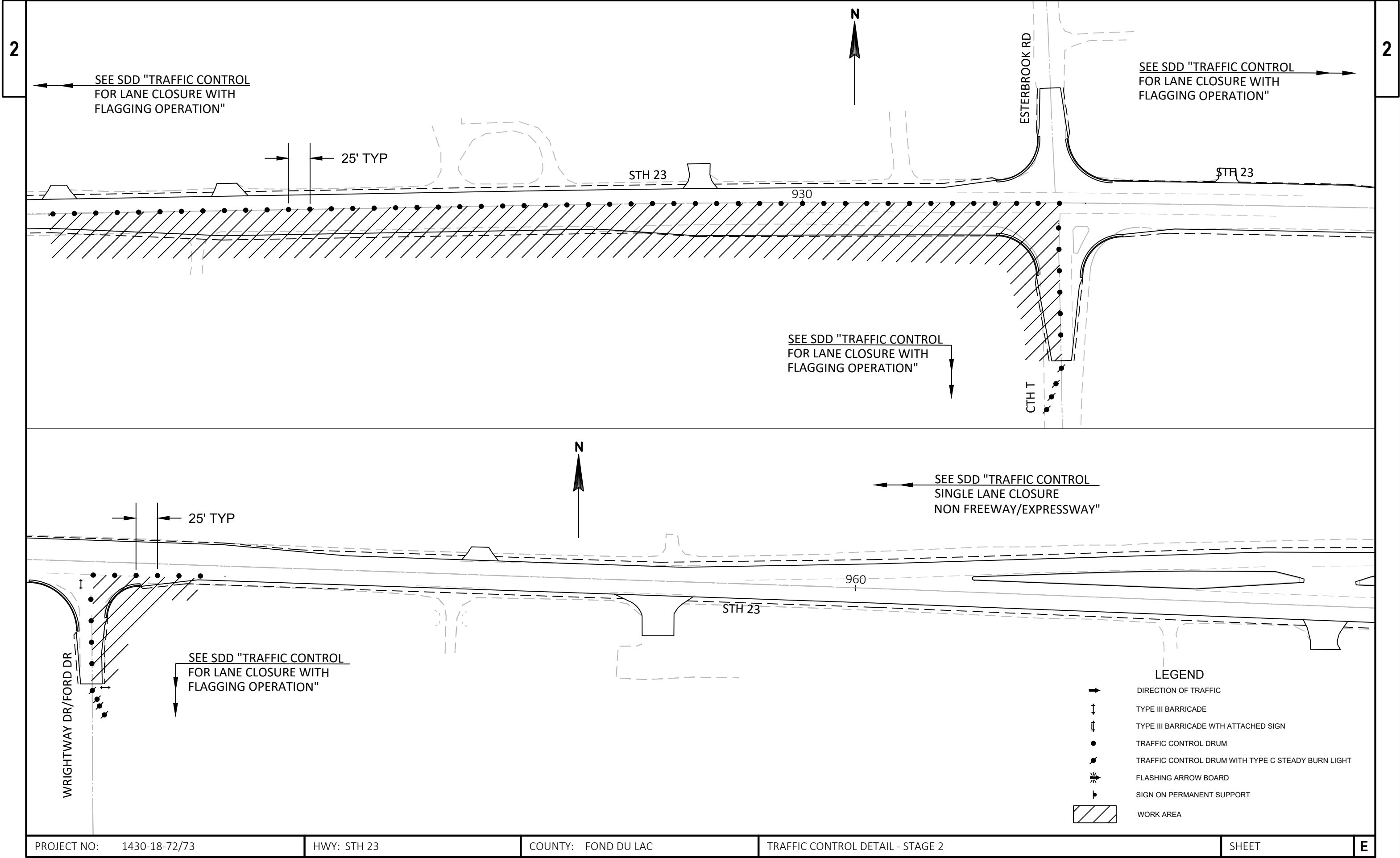
COUNTY: FOND DU LAC

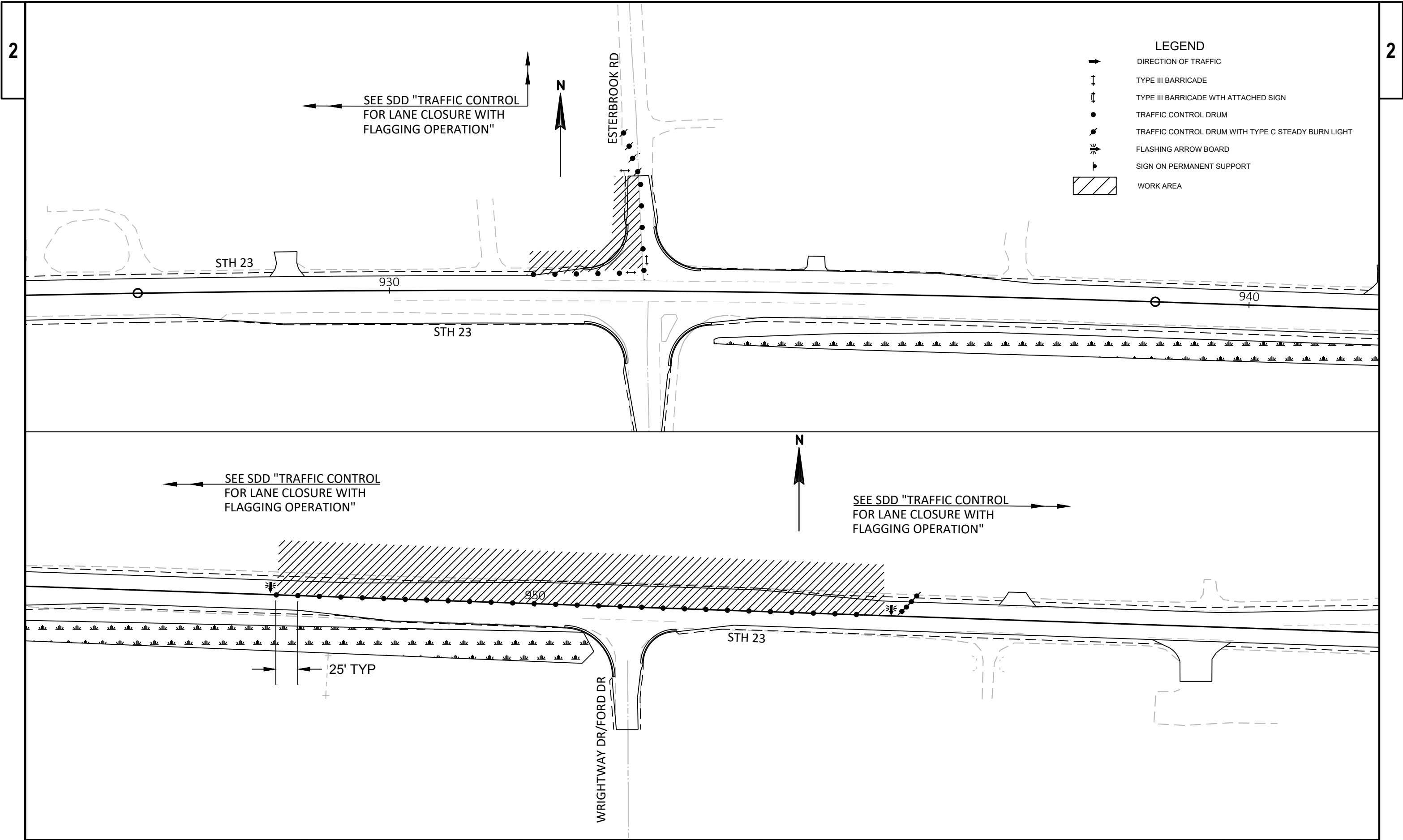
TRAFFIC CONTROL - STAGE 1 OVERVIEW

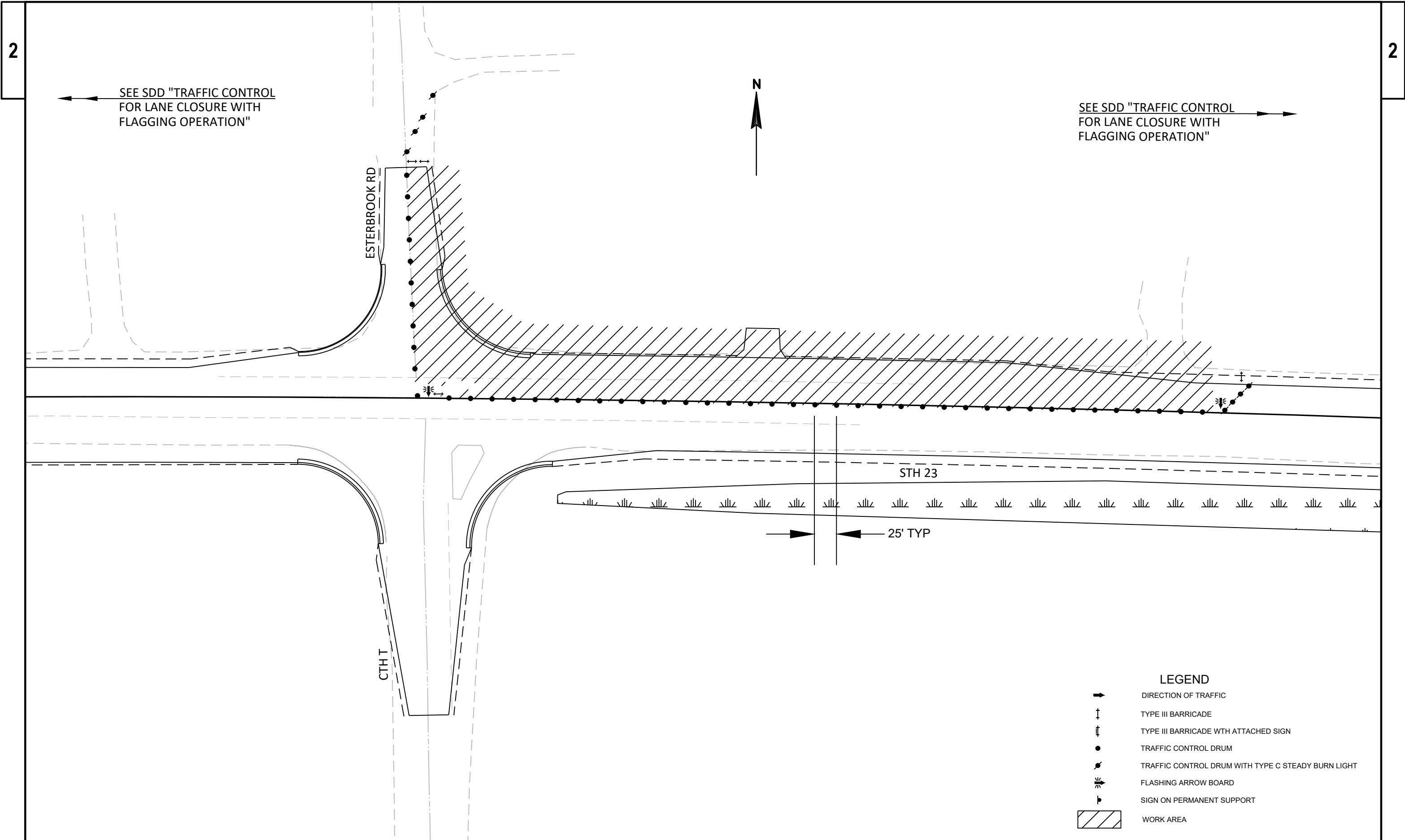
SHEET

E









REMOVING STORM SEWER

STATION	LOCATION	203.0100	204.0185	204.0210	204.0220	204.0245	REMARKS
		REMOVING SMALL PIPE CULVERTS EACH	REMOVING MASONRY CY	REMOVING MANHOLES EACH	REMOVING INLETS EACH	REMOVING STORM SEWER (18-INCH) LF	
1430-18-72, CAT 0010							
963+22	STH 23	2	7	-	-	-	
	ESTERBROOK/CTH T	1	-	-	-	-	
	ESTERBROOK/CTH T	1	-	-	-	-	
	WRIGHTWAY DR	2	-	-	-	-	
SUBTOTAL		6	7	0	0	0	
1430-18-73, CAT 0010							
973+77	STH 23	-	-	-	3	28	
976+20	STH 23	-	-	2	-	-	
976+53	STH 23	-	-	-	3	26	
976+80	STH 23	-	-	1	-	-	
977+96	STH 23	-	-	1	3	28	
978+25	STH 23	-	-	1	-	-	
980+30	STH 23	-	-	1	-	-	
SUBTOTAL		0	0	6	9	82	
TOTALS		6	7	6	9	82	

REMOVING PAVEMENT

STATION	TO	STATION	LOCATION	204.0100 REMOVING PAVEMENT SY	690.0250* SAWING CONCRETE LF	REMARKS
1430-18-73, CAT 0010						
972+50	-	976+97	STH 23	630	945	
977+65	-	980+35	STH 23	421	598	
SUBTOTAL				1051	1543	
TOTALS				1051	1543	
*ADDITIONAL QUANTIIES ELSEWHERE IN THE PLAN						

REMOVING ASPHALTIC SURFACE BUTT JOINTS

		204.0115 REMOVING ASPHALTIC SURFACE BUTT JOINTS	690.0150* SAWING ASPHALT	
STATION	LOCATION	SY	LF	REMARKS
1430-18-72, CAT 0010				
867+48	STH 23	8	30	WEST LIMIT
4+64	TOWNLINE RD	6	29	
0+82	STREBLOW DR	8	36	
1+28	RICKMEYER	7	33	
879+00	STH 23 LT	5	24	DRIVEWAY
918+80	STH 23 LT	5	22	DRIVEWAY
920+60	STH 23 LT	4	19	DRIVEWAY
921+30	STH 23 LT	4	18	DRIVEWAY
923+25	STH 23 LT	5	23	DRIVEWAY
928+75	STH 23 LT	6	27	DRIVEWAY
935+00	STH 23 LT	4	19	DRIVEWAY
941+60	STH 23 LT	4	18	DRIVEWAY
955+60	STH 23 LT	4	20	DRIVEWAY
957+65	STH 23 RT	13	57	DRIVEWAY
965+50	STH 23 RT	10	44	DRIVEWAY
966+75	STH 23 RT	10	44	DRIVEWAY
968+00	STH 23 RT	12	56	DRIVEWAY
970+25	STH 23 RT	14	64	DRIVEWAY
972+25	STH 23 LT	10	46	DRIVEWAY
972+25	STH 23 RT	29	130	DRIVEWAY
SUBTOTAL		170	759	
1430-18-73, CAT 0010				
974+30	STH 23 LT	14	62	DRIVEWAY
980+35	STH 23	11	50	WB LANES
980+35	STH 23	8	38	EB LANES
SUBTOTAL		33	150	
TOTAL		203	909	
*ADDITIONAL QUANTITIES ELSEWHERE IN THE PLAN				

REMOVING ASPHALTIC SURFACE

			204.0110	690.0150*		
				SAWING		
				ASPHALT		
STATION	TO	STATION	LOCATION	SY	LF	REMARKS
1430-18-72, CAT 0010						
		868+25	STH 23	35	58	PE
		874+00	STH 23	34	52	
		882+00	STH 23 RT	39	74	PE
		882+50	STH 23 LT	36	60	PE
		889+15	STH 23 LT	36	78	
		889+00	STH 23 RT	70	95	
		899+90	STH 23 LT	34	55	FE
		906+00	STH 23 RT	53	81	
		926+00	STH 23 LT	38	69	PE
		927+00	STH 23 LT	35	59	PE
		931+15	STH 23 LT	34	53	PE
921+25	-	932+83	STH 23 RT	896	1301	ESTERBROOK SW
932+28	-	933+61	STH 23 LT	423	135	ESTERBROOK NW
933+16	-	944+91	STH 23 RT	912	1350	ESTERBROOK SE
935+11	-	938+11	STH 23 LT	239	315	ESTERBROOK NE
		942+50	STH 23 LT	35	56	FE
		943+25	STH 23 LT	34	54	PE
947+00	-	954+75	STH 23 LT	260	780	WRIGHTWAY
947+00	-	952+63	STH 23 RT	725	568	WRIGHTWAY
		955+25	STH 23 RT	53	82	FE
		937+85	STH 23 LT	38	69	
958+18	-	966+59	STH 23 LT	280	853	SHOULDER
958+10	-	965+23	STH 23 RT	238	723	SHOULDER
965+74	-	966+51	STH 23 RT	26	86	SHOULDER
967+07	-	967+64	STH 23 RT	19	65	SHOULDER
968+36	-	969+82	STH 23 RT	49	157	SHOULDER
SUBTOTAL				4671	7328	
1430-18-73, CAT 0010						
		975+17	STH 23 RT	56	177	SHOULDER
		973+77	STH 23 LT	38	124	SHOULDER
SUBTOTAL				93	301	
TOTALS				4764	7629	
*ADDITIONAL QUANTITIES ELSEWHERE IN THE PLAN						

REMOVING ASPHALTIC SURFACE MILLING

				204.0120	
STATION	TO	STATION	LOCATION	SY	REMARKS
1430-18-72, CAT 0010					
872+77	-	972+90	STH 23	26701	ROADWAY
872+77	-	972+90	STH 23	6675	SHOULDERS
			TOWNLINE RD	1242	
			STREBLOW DR	1282	
			CTH T	327	
			WRIGHTWAY DR	1120	
			RICKMEYER DR	1184	
			BYPASS LANES	1389	
SUBTOTAL				39920	
1430-18-73, CAT 0010					
972+50	-	976+97	STH 23	3260	RT<
976+97	-	977+65	STH 23	590	INTERSECTION
977+65	-	980+35	STH 23	2130	RT<
SUBTOTAL				5980	
TOTAL				45900	

REMOVING CURB & GUTTER

				204.0150*	
STATION	TO	STATION	LOCATION	LF	REMARKS
1430-18-72, CAT 0010					
			ESTERBROOK SW	90	
			ESTERBROOK SE	82	
			ESTERBROOK ISLAND	85	
SUBTOTAL				257	
1430-18-73, CAT 0010					
972+50	-	974+50	RT<	405	
974+50	-	976+92	LT	245	
977+70	-	980+35	RT	265	
SUBTOTAL				915	
TOTAL				1172	
*ADDITIONAL CURB & GUTTER TO BE REMOVED UNDER REMOVING PAVEMENT BID ITEM					

EXCAVATION SUMMARY

				205.0100	208.0100	REMARKS
				COMMON	BORROW	
STATION	TO	STATION	LOCATION	CY	CY	
1430-18-72, CAT 0010						
1+90	-	5+08	ESTERBROOK/CTH T	748	4	
921+25	-	944+91	STH 23	3035	214	
18+89	-	20+00	WRIGHTWAY/FORD DR	227	12	
947+00	-	954+76	STH 23	1433	14	
SUBTOTALS				5443	244	
1430-18-73, CAT 0010						
972+50	-	980+35	STH 23	1823	28	
SUBTOTALS				1823	28	
TOTAL				7266	272	

PREPARE FOUNDATION FOR ASPHALTIC PAVING (PROJECT)

		211.0100	REMARKS
		LS	
LOCATION			
1430-18-72, CAT 0010			
1430-18-72		1	
SUBTOTALS		1	
1430-18-73, CAT 0010			
1430-18-73		1	
SUBTOTALS		1	
TOTAL		2	

PREPARE FOUNDATION FOR ASPHALTIC SHOULDERS

				211.0400	REMARKS
				STA	
STATION	TO	STATION	LOCATION		
1430-18-72 CAT 0010					
867+48	-	972+50	STH 23 LT	105	
867+48	-	972+50	STH 23 RT	105	
SUBTOTAL				210	
1430-18-73 CAT 0010					
972+50	-	976+75	STH 23 RT	4	
972+50	-	976+40	STH 23 LT	4	
SUBTOTAL				8	
TOTAL				218	

FINISHING ROADWAY (PROJECT)

		213.0100	REMARKS
		EACH	
LOCATION			
1430-18-72, CAT 0010			
1430-18-72		1	
SUBTOTALS		1	
1430-18-73, CAT 0010			
1430-18-73		1	
SUBTOTALS		1	
TOTAL		2	

BASE AGGREGATE DENSE SUMMARY

				305.0110	305.0120	624.0100*	
				3/4-INCH	1 1/4-INCH	WATER	
STATION	TO	STATION	LOCATION	TON	TON	MGAL	REMARKS
1430-18-72, CAT 0010							
872+77	-	873+95	STH 23 LT	10	-	0.14	5' SHOULDERS
873+95	-	880+64	STH 23 LT	29	-	0.41	2' SHOULDERS
880+64	-	909+62	STH 23 LT	239	-	3.34	5' SHOULDERS
909+62	-	910+07	STH 23 LT	2	-	0.03	2' SHOULDERS
911+58	-	914+18	STH 23 LT	11	-	0.16	2' SHOULDERS
914+18	-	931+65	STH 23 LT	144	-	2.02	5' SHOULDERS
933+65	-	935+11	STH 23 LT	6	-	0.09	2' SHOULDERS
936+97	-	946+82	STH 23 LT	81	-	1.14	5' SHOULDERS
946+82	-	954+76	STH 23 LT	35	-	0.48	2' SHOULDERS
954+76	-	966+78	STH 23 LT	99	-	1.39	5' SHOULDERS
966+78	-	967+29	STH 23 LT	2	-	0.03	2' SHOULDERS
968+74	-	972+50	STH 23 LT	16	-	0.23	2' SHOULDERS
872+77	-	875+24	STH 23 RT	20	-	0.29	5' SHOULDERS
875+24	-	876+74	STH 23 RT	7	-	0.09	2' SHOULDERS
878+04	-	878+83	STH 23 RT	3	-	0.05	2' SHOULDERS
878+83	-	907+68	STH 23 RT	238	-	3.33	5' SHOULDERS
907+68	-	914+25	STH 23 RT	29	-	0.40	2' SHOULDERS
914+25	-	921+25	STH 23 RT	58	-	0.81	5' SHOULDERS
927+39	-	932+27	STH 23 RT	21	-	0.30	2' SHOULDERS
933+75	-	934+42	STH 23 RT	3	-	0.04	2' SHOULDERS
944+91	-	946+86	STH 23 RT	16	-	0.23	5' SHOULDERS
946+86	-	950+35	STH 23 RT	15	-	0.21	2' SHOULDERS
951+65	-	952+19	STH 23 RT	2	-	0.03	2' SHOULDERS
952+19	-	972+50	STH 23 RT	203	-	2.84	5' SHOULDERS
931+65	-	932+76	STH 23 LT	23	188	2.96	
933+00	-	933+65	STH 23 LT	13	146	2.23	
935+11	-	938+11	STH 23 LT	62	329	5.48	LT TURN LANE
921+25	-	932+93	STH 23 RT	242	3541	52.96	NEW LANES
933+16	-	944+91	STH 23 RT	243	3089	46.65	NEW LANES
18+89	-	20+00	WRIGHTWAY/FORD DR	20	127	2.06	
946+86	-	954+76	STH 23 LT	163	1377	21.56	BYPASS
946+86	-	951+00	STH 23 RT	86	952	14.53	RIGHT TURN
951+24	-	952+46	STH 23 RT	25	294	4.47	
10% UNDISTRIBUTED				88	1004	15.29	
SUBTOTALS				2255	11048	186.25	
1430-18-73, CAT 0010							
972+50	-	976+91	STH 23 LT	-	783	10.97	NEW TURN LANE
977+71	-	980+35	STH 23 LT	-	612	8.57	NEW TURN LANE
972+50	-	976+76	STH 23 LT	-	114	1.59	MEDIAN
975+64	-	976+91	STH 23 LT	-	17	0.23	MEDIAN
977+71	-	979+00	STH 23 LT	-	21	0.30	MEDIAN
977+86	-	980+35	STH 23 LT	-	45	0.63	MEDIAN
972+50	-	976+39	STH 23 LT	39	-	0.54	SHOULDERS
972+50	-	976+72	STH 23 RT	42	-	0.59	SHOULDERS
10% UNDISTRIBUTED				8	159	2	
SUBTOTALS				89	1751	26	
TOTALS				2344	12799	212.01	

*ADDITIONAL QUANTITIES ELSEWHERE IN THE PLAN

SHAPING SHOULDERS

				305.0500	
				STA	REMARKS
STATION	TO	STATION	LOCATION		
1430-18-72, CAT 0010					
867+48	-	932+27	STH 23 LT	65	
867+48	-	921+24	STH 23 RT	54	
933+62	-	947+01	STH 23 LT	13	
944+91	-	947+01	STH 23 RT	2	
954+76	-	972+50	STH 23 LT	18	
954+76	-	972+50	STH 23 RT	18	
SUBTOTALS				170	
1430-18-73, CAT 0010					
972+50	-	976+75	STH 23 RT	4	
972+50	-	976+40	STH 23 LT	4	
SUBTOTALS				8	
TOTAL				178	

REHEATING HMA PAVEMENT LONGITUDINAL JOINTS

				460.4110.S	
				LF	
STATION	TO	STATION	LOCATION		
1430-18-72, CAT 0010					
872+77	-	972+50	STH 23	9973	
SUBTOTALS				9973	
1430-18-73, CAT 0010					
972+50	-	980+35	STH 23	1570	
SUBTOTALS				1570	
TOTAL				11543	

BASE PATCHING CONCRETE

				390.0303	390.0303*		
				BASE			
				PATCHING	SAWING		
				CONCRETE	CONCRETE		
STATION	TO	STATION	LOCATION	SY	LF	REMARKS	
1430-18-72, CAT 0010							
963+16	-	963+28	STH 23 RT	32	44	CULVERT	REPLACEMENT
963+16	-	963+28	STH 23 LT	18	26	CULVERT	REPLACEMENT
867+48	-	TOWNLINE	STH 23	64	192		
TOWNLINE	-	STREBLOW	STH 23	448	1344	BASE	PATCHING
STREBLOW	-	ESTERBROOK	STH 23	144	432	BASE	PATCHING
ESTERBROOK	-	WRIGHTWAY	STH 23	96	288	BASE	PATCHING
WRIGHTWAY	-	RICKMEYER	STH 23	64	192	BASE	PATCHING

TOTAL 866 2518

*ADDITIONAL QUANTITIES ELSEWHERE IN THE PLAN

ASPHALT SHOULDER RUMBLE STRIPS 2-LANE RURAL

				465.0425	
STATION	TO	STATION	LOCATION	LF	REMARKS
1430-18-72, CAT 0010					
867+48	-	867+93	STH 23 LT	45	
868+54	-	874+62	STH 23 LT	608	
880+11	-	882+34	STH 23 LT	223	
883+02	-	888+82	STH 23 LT	580	
889+44	-	908+85	STH 23 LT	1941	
914+43	-	918+42	STH 23 LT	399	
919+10	-	920+24	STH 23 LT	114	
921+59	-	922+92	STH 23 LT	133	
923+58	-	925+54	STH 23 LT	196	
926+21	-	926+73	STH 23 LT	52	
927+40	-	928+41	STH 23 LT	101	
929+15	-	930+81	STH 23 LT	166	
937+59	-	941+21	STH 23 LT	362	
941+90	-	942+96	STH 23 LT	106	
943+56	-	947+36	STH 23 LT	380	
954+40	-	955+25	STH 23 LT	85	
955+88	-	957+71	STH 23 LT	183	
867+48	-	874+74	STH 23 RT	726	
879+33	-	881+55	STH 23 RT	222	
882+24	-	888+71	STH 23 RT	647	
889+43	-	905+65	STH 23 RT	1622	
906+30	-	907+68	STH 23 RT	138	
914+25	-	927+39	STH 23 RT	1314	
935+02	-	942+22	STH 23 RT	720	
942+85	-	946+86	STH 23 RT	401	
952+96	-	956+95	STH 23 RT	399	

TOTAL 11863

ASPHALTIC SURFACE DRIVEWAYS AND FIELD ENTRANCES

				465.0120	
STATION	LOCATION			TON	REMARKS
1430-18-72, CAT 0010					
879+00	STH	23	LT	5	DRIVEWAY
918+80	STH	23	LT	7	DRIVEWAY
920+60	STH	23	LT	7	DRIVEWAY
921+30	STH	23	LT	7	DRIVEWAY
923+25	STH	23	LT	7	DRIVEWAY
928+75	STH	23	LT	12	DRIVEWAY
935+00	STH	23	LT	5	DRIVEWAY
941+60	STH	23	LT	13	DRIVEWAY
955+60	STH	23	LT	7	DRIVEWAY
957+65	STH	23	RT	10	DRIVEWAY
965+50	STH	23	RT	5	DRIVEWAY
966+75	STH	23	RT	5	DRIVEWAY
968+00	STH	23	RT	7	DRIVEWAY
970+25	STH	23	RT	9	DRIVEWAY
972+25	STH	23	LT	8	DRIVEWAY
972+25	STH	23	RT	21	DRIVEWAY
SUBTOTALS				136	

1430-18-73, CAT 0010						
974+30		STH 23 LT		12	DRIVEWAY	
SUBTOTALS				12		

TOTAL 149

ASPHALT CENTER LINE RUMBLE STRIPS 2-LANE RURAL

					465.0475	
STATION	TO	STATION	LOCATION	LF	REMARKS	
1430-18-72, CAT 0010						
867+48	-	876+47	STH 23	899		
878+47	-	909+82	STH 23	3135		
911+82	-	931+99	STH 23	2017		
933+99	-	950+06	STH 23	1607		
952+06		957+50	STH 23	544		

TOTAL 8202

ASPHALT SUMMARY												
			455.0605	HMA PAVEMENT		3 MT 58-28 S	HMA PAVEMENT		4 MT 58-28 S	465.0110	440.4410	
				460.6223	PWL		460.6224	PWL		ASPHALTIC		
			TACK		DENSTIY	PWL AIR		DENSTIY	PWL AIR	SURFACE	INCENTIVE	
			COAT		INCENTIVE	VOIDS		INCENTIVE	VOIDS	PATCHING	IRI RIDE	
STATION TO	STATION	LOCATION	GAL	TON	TON*	TON**	TON	TON*	TON**	TON	DOLLAR	REMARKS
1430-18-72, CAT 0010												
872+77	- 972+50	STH 23 EB	930.8	1779	1779	1779	1413	1413	1413	-	9973	DRIVING LANE
921+24	- 932+84	STH 23 EB	183.5	711	711	711	279	279	279	-	1160	NEW LANE
933+16	- 944+91	STH 23 EB	149.6	580	580	580	227	227	227	-	1175	NEW LANE
872+77	- 972+50	STH 23 WB	930.8	1779	1779	1779	1413	1413	1413	-	9973	DRIVING LANE
872+77	- 873+95	STH 23 LT	4.6	9	-	9	7	-	7	-	-	5' SHOULDERS
873+95	- 880+64	STH 23 LT	5.2	10	-	10	8	-	8	-	-	1' SHOULDERS
880+64	- 909+62	STH 23 LT	112.7	215	-	215	171	-	171	-	-	5' SHOULDERS
909+62	- 910+07	STH 23 LT	0.4	1	-	1	1	-	1	-	-	1' SHOULDERS
911+58	- 914+18	STH 23 LT	2.0	4	-	4	3	-	3	-	-	1' SHOULDERS
914+18	- 931+65	STH 23 LT	67.9	130	-	130	103	-	103	-	-	5' SHOULDERS
931+65	- 932+27	STH 23 LT	0.5	1	-	1	1	-	1	-	-	1' SHOULDERS
933+62	- 936+97	STH 23 LT	2.6	5	-	5	4	-	4	-	-	1' SHOULDERS
936+97	- 946+82	STH 23 LT	38.3	73	-	73	58	-	58	-	-	5' SHOULDERS
946+82	- 954+76	STH 23 LT	6.2	12	-	12	9	-	9	-	-	1' SHOULDERS
954+76	- 966+78	STH 23 LT	46.7	89	-	89	71	-	71	-	-	5' SHOULDERS
966+78	- 967+29	STH 23 LT	0.4	-	-	-	1	-	1	-	-	1' SHOULDERS
968+74	- 972+50	STH 23 LT	2.9	-	-	-	10	-	10	-	-	1' SHOULDERS
872+77	- 875+24	STH 23 RT	9.6	18	-	18	15	-	15	-	-	5' SHOULDERS
875+24	- 876+74	STH 23 RT	1.2	2	-	2	2	-	2	-	-	1' SHOULDERS
878+04	- 878+83	STH 23 RT	0.6	1	-	1	1	-	1	-	-	1' SHOULDERS
878+83	- 907+68	STH 23 RT	112.2	214	-	214	170	-	170	-	-	5' SHOULDERS
907+68	- 914+25	STH 23 RT	5.1	10	-	10	8	-	8	-	-	1' SHOULDERS
914+25	- 927+39	STH 23 RT	51.1	98	-	98	78	-	78	-	-	5' SHOULDERS
927+39	- 932+27	STH 23 RT	3.8	7	-	7	6	-	6	-	-	1' SHOULDERS
933+75	- 934+42	STH 23 RT	0.5	1	-	1	1	-	1	-	-	1' SHOULDERS
934+43	- 946+86	STH 23 RT	512.4	979	-	979	778	-	778	-	-	5' SHOULDERS
946+86	- 950+35	STH 23 RT	2.7	5	-	5	4	-	4	-	-	1' SHOULDERS
951+65	- 952+19	STH 23 RT	0.4	1	-	1	1	-	1	-	-	1' SHOULDERS
952+19	- 972+50	STH 23 RT	79.0	151	-	151	120	-	120	-	-	5' SHOULDERS
957+72	- 960+22	STH 23 WB	3.0	6	6	6	4	4	4	-	250	TRANSITION
960+22	- 965+35	STH 23 WB	47.9	-	-	-	82	82	82	-	513	
965+35	972+50	STH 23 WB	133.5	-	-	-	229	229	229	-	1430	4 LANE AREA
960+22	- 972+50	STH 23 EB	229.2	-	-	-	393	393	393	-	2456	4 LANE AREA
963+85	- 972+50	STH 23	124.6	-	-	-	214	-	214	-	865	MEDIAN/TURN LANES
		TOWNLIN	29.3	56	-	56	44	-	44	-	-	
		STREBLOW	51.5	98	-	98	78	-	78	-	-	
		ESTERBROOK	72.3	138	-	138	110	-	110	-	-	
		CTH T	86.3	165	-	165	131	-	131	-	-	
		WRIGHTWAY	62.5	119	-	119	95	-	95	-	-	
		RICKMEYER	65.4	-	-	-	112	-	112	-	-	
		STH 23	145.9	279	-	279	221	-	221	-	-	BYPASS LANES
		10% UNDISTRIBUTED	431.5	775	-	775	667	-	667	793	-	PATCHING/WEDGING
SUBTOTALS			4747	8520	4854	8520	7341	4040	7341	793	27795	

* Tonnage is eligible for Incentive Density PWL 460.2005.
** Tonage is eligible for Incentive Air Voids 460.2010 and density is tested for acceptance in those areas.

ASPHALT SUMMARY (CONT.)													
				455.0605	HMA PAVEMENT		3 MT 58-28 S	HMA PAVEMENT		4 MT 58-28 S	465.0110	440.4410	
					460.6223	PWL		460.6224	PWL		ASPHALTIC		
				TACK		DENSTIY	PWL AIR		DENSTIY	PWL AIR	SURFACE	INCENTIVE	
				COAT		INCENTIVE	VOIDS		INCENTIVE	VOIDS	PATCHING	IRI RIDE	
STATION	TO	STATION	LOCATION	GAL	TON	TON*	TON**	TON	TON*	TON**	TON	DOLLAR	REMARKS
1430-18-73, CAT 0010													
972+50	-	976+91	STH 23 LT	37.5	-	-	-	123	-	123	-	441	NEW TURN LANE
977+71	-	980+35	STH 23 LT	32.2	-	-	-	106	-	106	-	264	NEW TURN LANE
972+50	-	980+35	STH 23 EB	146.5	-	-	-	251	251	251	-	1570	DRIVING LANES
972+50	-	980+35	STH 23 WB	146.5	-	-	-	251	251	251	-	1570	DRIVING LANES
972+50	-	976+39	STH 23 LT	15.1	-	-	-	26	-	26	-	-	SHOULDERS
972+50	-	976+72	STH 23 RT	16.4	-	-	-	28	-	28	-	-	SHOULDERS
973+78	-	980+35	STH 23 LT	71.5	-	-	-	122	-	122	-	-	TURN LANES
975+42	-	980+35	STH 23 RT	51.8	-	-	-	89	-	89	-	-	TURN LANES
10% UNDISTRIBUTED				39	-	-	-	79	-	-	-	-	
SUBTOTALS				557	0	0	0	1075	502	997	0	3845	
TOTALS				5304	8520	4854	8520	8416	4542	8338	793	31640	

* Tonnage is eligible for Incentive Density PWL 460.2005.
** Tonage is eligible for Incentive Air Voids 460.2010 and density is tested for acceptance in those areas.

CULVERT PIPE SUMMARY													
				504.0900	522.0430	522.2419	522.2434	522.2619	633.5200	650.6000			
				CONCRETE	CPRC	HE-IV	HE-IV	AEW HE	MARKERS	CONSTRUCTION			
				MASONRY	CLASS IV	19X30-	34X53-	19X30-	CULVERT	STAKING PIPE			
				INLET	DISCHARGE	SLOPE	ENDWALLS	30-INCH	INCH	INCH	INCH	END	CULVERTS
STATION	LOCATION	ELEVATION	ELEVATION	FT\FT	CY	LF	LF	LF	LF	EACH	EACH	EACH	REMARKS
1430-18-72, CAT 0010													
3+08	ESTERBROOK/CTH T	799.36	798.41	0.0091	10	228	-	-	-	2	4	2	PIPES
4+16	ESTERBROOK/CTH T	801.12	800.17	0.0130	-	-	80	-	2	2	2		
19+42	WRIGHTWAY/FORD DR	782.95	798.59	0.0055	10	195	-	-	-	2	6	3	PIPES
963+22	STH 23	772.92	772.45	0.0035	10	-	-	272	-	2	4	2	PIPES
TOTALS					30	423	80	272	2	8	16		

STORM SEWER SUMMARY

		608.0418	611.0530	611.0666	611.2003	611.3004	650.4000		
		STORM SEWER							
		PIPE							
		REINFORCED							
		CONCRETE	MANHOLE	INLET	MANHOLES 3-	INLETS 4-	CONSTRUCTION		
		CLASS IV 18-	COVERS	COVERS	FT	FT	STAKING STORM		
		INCH	TYPE J	TYPE Z	DIAMETER	DIAMETER	SEWER		
STATION	LOCATION	LF	EACH	EACH	EACH	EACH	EACH	REMARKS	
1430-18-73, CAT 0010									
974+00	STH 23	32	-	2	-	2	2		
976+60	STH 23	38	-	4	-	4	4		
977+95	STH 23	39	-	4	-	4	4		
976+20	STH 23	-	2	-	2	-	2		
976+50	STH 23	-	1	-	1	-	1		
976+80	STH 23	-	1	-	1	-	1		
977+75	STH 23	-	1	-	1	-	1		
978+25	STH 23	-	1	-	1	-	1		
980+30	STH 23	-	1	-	1	-	1		
TOTALS		109	7	10	7	10	17		

CONCRETE CURB & GUTTER

		601.0120	601.0407	601.0409	650.5500
		CONCRETE			CONSTRUCTION
		CURB	18-INCH	30-INCH	STAKING CURB
		TYPE J	TYPE D	TYPE A	GUTTER AND
STATION	TO STATION	LOCATION	LF	LF	CURB & GUTTER
		LF	LF	LF	LF
1430-18-72, CAT 0010					
		ESTERBROOK NE	-	-	80
		ESTERBROOK NW	-	-	82
		ESTERBROOK SE	-	-	76
		ESTERBROOK SW	-	-	75
		ESTERBROOK ISLAND	86	-	86
		WRIGHTWAY SW	-	-	89
		WRIGHTWAY SE	-	-	60
SUBTOTALS			86	0	462
1430-18-73, CAT 0010					
972+50	-	976+75	STH 23	-	866
975+65	-	976+97	STH 23	-	267
977+65	-	978+92	STH 23	-	280
977+88	-	980+35	STH 23	-	500
SUBTOTALS			0	1913	0
TOTAL			86	1913	462
					2461

CONCRETE MEDIAN SLOPED NOSE

		620.0300		
STATION	LOCATION	SF	REMARKS	
1430-18-73, CAT 0010				
972+50	STH 23 MEDIAN	120		
975+66	STH 23 MEDIAN	20		
976+75	STH 23 MEDIAN	20		
976+92	STH 23 MEDIAN	22		
977+65	STH 23 MEDIAN	31		
977+88	STH 23 MEDIAN	20		
978+97	STH 23 MEDIAN	31		
TOTAL		264		

CONCRETE SIDEWALK 4-INCH

			602.0405
STATION TO STATION	LOCATION	SF	
1430-18-72, CAT 0010			
ESTERBROOK ISLAND			236
SUBTOTALS			236
1430-18-73, CAT 0010			
972+51	- 976+73	STH 23	6141
975+64	- 976+91	STH 23	894
977+71	- 978+94	STH 23	1145
977+90	- 980+35	STH 23	2412
SUBTOTALS			10592
TOTAL			10828

LANDSCAPING						
	624.1000*	625.0100	627.0200	628.2004	629.0210	630.0140
				EROSION		SEEDING
				MAT CLASS	FERTILIZER	MIXTURE
				I TYPE B	TYPE B	NO. 40
LOCATION	WATER	TOPSOIL	MULCHING	SY	CWT	LB
MGAL	SY	SY				
1430-18-72, CAT 0010						
ESTERBROOK SW	14.54	2597	773	1823	81.80	46.74
ESTERBROOK SE	14.78	2639	875	1764	83.12	47.50
ESTERBROOK NE	1.89	337	-	337	10.61	6.06
ESTERBROOK NW	1.83	326	-	326	10.26	5.86
WRIGHTWAY NORTH	12.06	2153	882	1272	67.83	38.76
WRIGHTWAY SE	1.66	296	18	279	9.33	5.33
WRIGHTWAY SW	6.76	1208	269	939	38.05	21.74
963+22	2.49	444	216	229	14.00	8.00
UNDISTRIBUTED	14	2500	758	1742	79	45
TOTALS	70.00	12500	3790	8710	393.74	224.99

*ADDITIONAL QUANTITIES ELSEWHERE IN THE PLAN

INLET PROTECTION	
	628.7015
	TYPE C
LOCATION	EACH
1430-18-72, CAT 0010	
1430-18-72	5
SUBTOTALS	5
1430-18-73, CAT 0010	
1430-18-73	18
SUBTOTALS	18
TOTAL	23

TEMPORARY DITCH CHECKS				
				628.7504
STATION	TO	STATION	LOCATION	LF
1430-18-72, CAT 0010				
923+00	-	932+50	STH 23 RT	96
934+00	-	942+00	STH 23 RT	80
947+00	-	950+50	STH 23 RT	32
947+00	-	954+00	STH 23 LT	64
TOTAL				272

MOBILIZATIONS EROSION CONTROL		
	628.1905	
LOCATION	EACH	REMARKS
1430-18-72, CAT 0010		
1430-18-72	1	
SUBTOTALS	1	
1430-18-73, CAT 0010		
1430-18-73	1	
SUBTOTALS	1	
TOTAL	2	

MOBILIZATIONS EMERGENCY EROSION CONTROL		
	628.1910	
LOCATION	EACH	REMARKS
1430-18-72, CAT 0010		
1430-18-72	1	
SUBTOTALS	1	
1430-18-73, CAT 0010		
1430-18-73	1	
SUBTOTALS	1	
TOTAL	2	

CULVERT PIPE CHECKS		
	628.7555	
STATION	LOCATION	EACH
1430-18-72, CAT 0010		
	ESTERBROOK/CTH T	1
4+16	ESTERBROOK/CTH T	1
19+44	WRIGHTWAY/FORD DR	2
963+22	STH 23	2
TOTAL		6

TRAFFIC CONTROL																	
LOCATION	SERVICE PERIOD DAYS	643.0300		643.0420		643.0705 WARNING		643.0715 WARNING		643.0800		643.0900		643.1050		REMARKS	
		DRUMS		BARRICADES		LIGHTS TYPE		LIGHTS		ARROW		SIGNS		SIGNS PCMS			
		NO	DAYS	NO	DAYS	NO	DAYS	NO	DAYS	NO	DAYS	NO	DAYS	NO	DAYS		
1430-18-72 CAT 0010																	
ADVANCED WARNING	7	10	70	-	-	-	-	-	-	-	-	-	-	2	14		
ADVANCED WARNING	92	-	-	-	-	-	-	-	-	-	-	22	2024	-	-		
STAGE 1	20	94	1874	6	120	12	240	8	160	2	40	19	380	-	-		
STAGE 2	10	93	934	8	80	16	160	8	80	2	20	19	190	-	-		
STAGE 3	10	59	590	6	60	12	120	8	80	2	20	13	130	-	-		
STAGE 4	20	37	740	6	120	12	240	8	160	2	40	12	240	-	-		
SUBTOTALS			4208		380		760		480		120		2964		14		
1430-18-73 CAT 0010																	
STAGE 1	20	133	2666	10	200	20	400	15	300	3	60	24	480	2	14		
SUBTOTALS			2666		200		400		300		60		480		14		
TOTALS			6873		580		1160		780		180		3444	0	28		

TRAFFIC CONTROL	
	643.5000
LOCATION	EACH
1430-18-72, CAT 0010	
STH 23	1
SUBTOTAL	1
1430-18-73, CAT 0010	
STH 23	1
SUBTOTAL	1
TOTAL	2

ERECTION & REMOVAL OF PERMANENT SIGNING, TYPE II

1430-18-72

SIGN NO.	LOCATION	SIGN CODE	W X H	637.2210 SIGNS TYPE II REFLECTIVE TYPE H S.F.	637.2230 SIGNS TYPE II REFLECTIVE TYPE F S.F.	634.0614 POSTS WOOD 4x6x14 EACH	634.0616 POSTS WOOD 4x6x16 EACH	638.2602 REMOVING SIGNS TYPE II EACH	638.3000 REMOVING SMALL SIGN SUPPORTS EACH	REMARKS
100	TOWNLIN RD	R1-1	30" X 30"	5.18	---	1	---	1	1	
101	STH 23, E. OF TOWNLIN RD	W14-3	48" X 36"	---	6.00	---	1	1	1	
102	STREBLOW DR	R1-1	30" X 30"	5.18	---	1	---	1	1	
103	STH 23, W. OF CTH T	J1-1	24" X 39"	6.50	---	---	1	1	1	SEE PLAN SHEET
104	"	R3-8W	54" X 30"	11.25	---	2	---	---	---	
105	"	R2-1	24" X 30"	5.00	---	1	---	1	1	55 MPH
106	"	J13-1	24" X 45"	7.50	---	---	1	1	1	SEE PLAN SHEET
107	"	J4-1	24" X 36"	6.00	---	---	1	1	1	SEE PLAN SHEET
108	ESTERBROOK RD	R1-1	30" X 30"	5.18	---	1	---	1	1	
109	CTH T	R1-1	---	---	---	---	---	1	1	
110	"	J13-1	---	---	---	---	---	1	1	
111	"	W12-1D	---	---	---	---	---	1	1	
112	"	R1-1	36" X 36"	7.46	---	---	1	1	1	
113	"	J13-1	24" X 45"	7.50	---	---	1	---	---	SEE PLAN SHEET
114	STH 23, E. OF CTH T	J13-1	24" X 45"	7.50	---	---	1	1	1	SEE PLAN SHEET
115	"	J4-1	24" X 36"	6.00	---	---	1	1	1	SEE PLAN SHEET
116	"	R2-1	24" X 30"	5.00	---	1	---	1	1	55 MPH
117	"	R3-8W	54" X 30"	11.25	---	2	---	---	---	
118	"	J1-1	24" X 39"	6.50	---	---	1	1	1	SEE PLAN SHEET
119	"	R59-51	36" X 36"	9.00	---	---	1	---	---	
120	"	W6-1	---	---	---	---	---	1	1	
121	"	R59-51	---	---	---	---	---	1	1	
122	WRIGHTWAY DR	R1-1	30" X 30"	5.18	---	1	---	1	1	
123	STH 23, E. OF WRIGHTWAY DR	W3-5	36" X 36"	---	9.00	---	1	1	1	45 MPH
124	"	W14-3	48" X 36"	---	6.00	---	2	1	1	
124A	"	D2-2	78" X 24"	13.00	---	---	---	---	---	MOUNT TO BACK OF SIGN 124
125	"	W6-1	36" X 36"	---	9.00	---	1	---	---	
126	"	R2-1	24" X 30"	5.00	---	1	---	1	1	45 MPH
127	"	R2-1	24" X 30"	5.00	---	1	---	1	1	55 MPH
128	"	D2-2	---	---	---	---	---	1	2	
129	"	W6-1	36" X 36"	---	9.00	---	1	1	1	
130	"	R4-7	36" X 48"	12.00	---	---	1	1	1	
131	"	R5-1	36" X 36"	9.00	---	---	1	1	1	
132	"	J4-1	24" X 36"	6.00	---	---	---	---	---	MOUNT TO BACK OF SIGN 131
133	"	R5-1A	42" X 30"	8.75	---	---	1	1	1	
134	"	W6-1	36" X 36"	---	9.00	---	---	---	---	MOUNT TO BACK OF SIGN 133
PAGE SUBTOTALS				175.93	48.00	12	18	28	29	

1430-18-72

ERECTION & REMOVAL OF PERMANENT SIGNING, TYPE II

SIGN NO.	LOCATION	SIGN CODE	W X H	637.2210 SIGNS TYPE II REFLECTIVE TYPE H S.F.	637.2230 SIGNS TYPE II REFLECTIVE TYPE F S.F.	634.0614 POSTS WOOD 4x6x14 EACH	634.0616 POSTS WOOD 4x6x16 EACH	638.2602 REMOVING SIGNS TYPE II EACH	638.3000 REMOVING SMALL SIGN SUPPORTS EACH	REMARKS
135	STH 23, W. OF RICKMEYER DR	I2-3	84" X 24"	14.00	---	2	---	1	2	SEE SIGN DETAILS
136	"	R5-1A	42" X 30"	8.75	---	---	---	---	---	MOUNT TO BACK OF SIGN 135
137	"	R6-2R	24" X 30"	5.00	---	1	---	---	---	
138	"	R5-1	36" X 36"	9.00	---	---	1	---	---	
139	"	R6-2L	24" X 30"	5.00	---	1	---	---	---	
140	"	W6-2	---	---	---	---	---	1	1	
141	"	W6-2	---	---	---	---	---	1	1	
142	"	R6-2L	24" X 30"	5.00	---	1	---	---	---	
143	RICKMEYER DR	R1-1	30" X 30"	5.18	---	---	1	1	1	
144	"	R6-3A	30" X 24"	5.00	---	---	---	---	---	MOUNT BELOW SIGN 143
145	STH 23, E. OF RICKMEYER DR	R4-7	24" X 30"	5.00	---	1	---	1	1	
146	"	R6-2L	24" X 30"	5.00	---	1	---	---	---	
147	"	R5-1	36" X 36"	9.00	---	---	1	---	---	
148	"	R2-1	36" X 48"	12.00	---	---	1	1	1	35 MPH
149	"	R2-1	36" X 48"	12.00	---	---	1	1	1	35 MPH
150	"	R5-1A	36" X 24"	6.00	---	1	---	---	---	
151	"	R2-1	24" X 30"	5.00	---	---	1	1	1	45 MPH
152	"	R2-1	24" X 30"	5.00	---	---	1	1	1	45 MPH
153	"	R6-2R	24" X 30"	5.00	---	1	---	1	1	
154	"	J1-3	72" X 39"	19.50	---	---	2	1	2	SEE PLAN SHEET
155	"	J1-3	72" X 39"	19.50	---	---	2	1	2	SEE PLAN SHEET
156	"	R5-1	30" X 30"	6.25	---	---	---	---	---	MOUNT TO BACK OF SIGN 155
157	"	W4-2L	36" X 36"	---	9.00	---	1	---	---	
158	"	W4-2L	36" X 36"	---	9.00	---	1	---	---	
159	"	R5-1A	36" X 24"	6.00	---	---	---	---	---	MOUNT TO BACK OF SIGN 158
160	"	R6-2L	24" X 30"	5.00	---	1	---	---	---	
161	"	R4-7	24" X 30"	5.00	---	1	---	1	1	
162	"	R4-7	24" X 30"	5.00	---	1	---	---	---	
163	"	R6-2L	24" X 30"	5.00	---	1	---	---	---	
164	"	R5-1	30" X 30"	6.25	---	1	---	---	---	
165	"	I55-56	---	---	---	---	---	1	1	
166	"	R6-2R	24" X 30"	5.00	---	1	---	1	1	
167	"	J2-4	96" X 57"	38.00	---	---	2	---	---	SEE PLAN SHEET
168	"	J2-4	96" X 57"	38.00	---	---	2	1	2	SEE PLAN SHEET
169	"	R5-1A	36" X 24"	6.00	---	---	---	---	---	MOUNT TO BACK OF SIGN 168
PAGE SUBTOTALS				285.43	18.00	15	17	16	20	
PROJECT 1430-18-72 TOTALS				461.36	66.00	27	35	44	49	

1430-18-73

ERECTION & REMOVAL OF PERMANENT SIGNING, TYPE II

SIGN NO.	LOCATION	SIGN CODE	W X H	637.1220 SIGNS TYPE I REFLECTIVE TYPE SH S.F.	637.2210 SIGNS TYPE II REFLECTIVE TYPE H S.F.	637.2215 SIGNS TYPE II REF. TYPE H FOLDING S.F.	637.2230 SIGNS TYPE II REFLECTIVE TYPE F S.F.	634.0612 POSTS WOOD 4x6x12 EACH	634.0614 POSTS WOOD 4x6x14 EACH	634.0616 POSTS WOOD 4x6x16 EACH	REMARKS
300	STH 23, W. OF CTH VV	D1-3	108" X 36"	---	27.00	---	---	---	---	2	SEE SIGN DETAILS
301	"	J13-1	24" X 45"	---	7.50	---	---	---	---	1	
302	"	W9-1L	30" X 30"	---	---	---	6.25	---	---	1	
303	"	W9-1L	30" X 30"	---	---	---	6.25	---	---	1	
304	"	W12-1D	24" X 24"	---	---	---	4.00	1	---	---	
305	"	J13-2	48" X 45"	---	15.00	---	---	---	---	1	SEE PLAN SHEET
306	"	R1-1F	36" X 36"	---	---	7.46	---	---	---	---	MOUNT TO SIGNAL POLE
307	"	R4-7	24" X 30"	---	5.00	---	---	---	---	---	MOUNT TO SIGNAL POLE
308	"	R1-1F	36" X 36"	---	---	7.46	---	---	---	---	MOUNT TO SIGNAL POLE
309	"	R1-1F	36" X 36"	---	---	7.46	---	---	---	---	MOUNT TO SIGNAL POLE
310	"	R4-7	24" X 30"	---	5.00	---	---	---	---	---	MOUNT TO SIGNAL POLE
311	"	R1-2	36" X 31"	---	3.88	---	---	---	1	---	
312	CTH VV	R6-2L	24" X 30"	---	5.00	---	---	---	---	---	MOUNT TO SIGNAL POLE
313	"	R1-1F	36" X 36"	---	---	7.46	---	---	---	---	MOUNT TO SIGNAL POLE
314	"	R1-2	36" X 31"	---	3.88	---	---	---	1	---	
315	"	R1-1F	36" X 36"	---	---	7.46	---	---	---	---	MOUNT TO SIGNAL POLE
316	"	R10-5	30" X 36"	---	7.50	---	---	---	---	---	MOUNT TO SIGNAL POLE
317	"	R4-7	24" X 30"	---	5.00	---	---	---	---	---	MOUNT TO SIGNAL POLE
318	"	J13-1	24" X 45"	---	7.50	---	---	---	---	1	SEE PLAN SHEET
319	"	R1-1F	36" X 36"	---	---	7.46	---	---	---	---	MOUNT TO SIGNAL POLE
320	"	R10-5	30" X 36"	---	7.50	---	---	---	---	---	MOUNT TO SIGNAL POLE
321	"	R6-2L	24" X 30"	---	5.00	---	---	---	---	---	MOUNT TO SIGNAL POLE
322	"	R1-2	36" X 31"	---	3.88	---	---	---	1	---	
323	STH 23, E. OF CTH VV	R5-1	30" X 30"	---	6.25	---	---	---	---	---	MOUNT TO SIGNAL POLE
324	"	R1-1F	36" X 36"	---	---	7.46	---	---	---	---	MOUNT TO SIGNAL POLE
325	"	R1-2	36" X 31"	---	3.88	---	---	---	1	---	
326	"	R5-1	30" X 30"	---	6.25	---	---	---	---	---	MOUNT TO SIGNAL POLE
327	"	R1-1F	36" X 36"	---	---	7.46	---	---	---	---	MOUNT TO SIGNAL POLE
328	"	W12-1D	24" X 24"	---	---	---	4.00	1	---	---	
329	"	J13-1	24" X 45"	---	7.50	---	---	---	---	1	SEE PLAN SHEET
330	"	W12-1D	24" X 24"	---	---	---	4.00	1	---	---	
331	"	R2-1	36" X 48"	---	12.00	---	---	---	---	1	35 MPH
332	"	D1-3	108" X 36"	---	27.00	---	---	---	---	2	SEE SIGN DETAILS
333	"	J3-2	48" X 69"	---	23.00	---	---	---	---	1	SEE PLAN SHEET
334	"	R4-7	24" X 30"	---	5.00	---	---	---	---	---	MOUNT TO SIGNAL POLE
335	"	R1-1F	36" X 36"	---	---	7.46	---	---	---	---	MOUNT TO SIGNAL POLE
336	"	R3-7R	30" X 30"	---	6.25	---	---	---	---	---	MOUNT TO CANTILEVER POLE
337	"	D16-1	36" X 72"	18.00	---	---	---	---	---	---	CENTER OVER RIGHT LANE
338	"	J2-2	48" X 57"	---	19.00	---	---	---	---	1	SEE PLAN SHEET
339	"	J3-1	24" X 57"	---	9.50	---	---	---	---	1	SEE PLAN SHEET
340	VACANT	---	---	---	---	---	---	---	---	---	
PROJECT 1430-18-73 TOTALS				18.00	234.25	67.14	24.50	3	4	14	

ERECTION & REMOVAL OF PERMANENT SIGNING, TYPE II

1430-18-73

SIGN NO.	LOCATION	SIGN CODE	638.2602 REMOVING SIGNS TYPE II EACH	638.3000 REMOVING SMALL SIGN SUPPORTS EACH
200	STH 23, W. OF CTH VVV	J2-2	1	1
201	"	D1-3	1	2
202	"	W9-1L	1	1
203	"	W9-1L	1	1
204	"	R1-1F	1	---
205	"	R4-7	1	---
206	"	R1-1F	1	---
207	"	R1-2	1	1
208	"	I5-1	1	---
209	"	J13-1	1	---
210	CTH VVV	R1-1F	1	---
211	"	R10-5	1	---
212	"	R4-7	1	---
213	"	J13-1	1	---
214	"	R1-1F	1	---
215	STH 23, E. OF CTH VVV	R10-5	1	---
216	"	R6-2L	1	---
217	"	R1-2	1	1
218	CTH VVV	R1-2	1	1
219	"	R6-2L	1	---
220	"	R1-1F	1	---
221	STH 23, E. OF CTH VVV	R5-1	1	---
222	"	R1-1F	1	---
223	"	R1-2	1	1
224	"	W12-1D	1	1
225	"	R6-2L	1	1
226	"	J1-2	1	1
227	"	R4-7	1	---
228	"	R1-1F	1	---
229	"	J2-1	1	1
230	"	R2-1	1	---
231	"	J2-1	1	1
232	"	J2-1	1	1
233	"	D1-3	1	2
234	"	R3-7R	1	---
235	"	J3-1	1	---
TOTALS			36	17

PAVEMENT MARKINGS														
STATION	TO	STATION	LOCATION	646.1020	646.4520	646.1040	646.3040	646.5020	646.5120	646.7120	646.6120	646.8120	646.8220	REMARKS
				EPOXY	SAME DAY	GROOVED WET	GROOVED WET	ARROW	WORDS	DIAGONAL	STOP LINE	CURB	ISLAND	
				4-INCH	EPOXY 4	REF EPOXY	REF EPOXY			EPOXY	EPOXY	EPOXY	NOSE	
				YELLOW	YELLOW	WHITE	WHITE			12-INCH	18-INCH	YELLOW	YELLOW	
				LF	LF	LF	LF	EACH	EACH	LF	LF	LF	EACH	
1430-18-72, CAT 0010														
872+24	-	885+69	STH 23	1345	1345	-	-	-	-	-	-	-	-	SOLID
872+24	-	921+19	STH 23	1224	1224	-	-	-	-	-	-	-	-	DASHED
904+98	-	910+54	STH 23	556	556	-	-	-	-	-	-	-	-	SOLID
916+16	-	921+19	STH 23	503	503	-	-	-	-	-	-	-	-	SOLID
921+19	-	927+20	STH 23	-	2404	-	-	-	-	250	-	-	-	SOLID
927+20	-	932+28	STH 23	-	1016	-	-	-	-	-	-	-	-	DOUBLE SOLID
933+61	-	938+73	STH 23	-	1024	-	-	-	-	-	-	-	-	DOUBLE SOLID
938+73	-	944+87	STH 23	-	2456	-	-	-	-	279	-	-	-	SOLID
944+87	-	957+77	STH 23	-	2580	-	-	-	-	-	-	-	-	DOUBLE SOLID
957+77	-	961+42	STH 23	-	1460	-	-	-	-	132	-	-	-	DOUBLE SOLID
961+42	-	961+94	STH 23 EB	-	104	-	-	-	-	32	-	-	-	DOUBLE SOLID
961+42	-	965+20	STH 23 EB	-	378	-	-	-	-	-	-	10	1	SOLID
961+42	-	965+20	STH 23 WB	-	378	-	-	-	-	-	-	-	-	SOLID
966+16	-	967+37	STH 23 WB	-	121	-	-	-	-	-	-	-	-	SOLID
969+30	-	971+67	STH 23 EB	-	237	-	-	-	-	-	-	-	-	SOLID
872+24	-	876+74	STH 23 EB	-	-	450	-	-	-	-	-	-	-	EDGE LINE
872+24	-	910+14	STH 23 WB	-	-	3790	-	-	-	-	-	-	-	EDGE LINE
873+74	-	876+74	STH 23 EB	-	-	-	300	-	-	-	-	-	-	TURN LANE
876+78	-	879+28	STH 23 WB	-	-	63	-	-	-	-	-	-	-	BYPASS LINE
878+03	-	932+27	STH 23 EB	-	-	5424	-	-	-	-	-	-	-	EDGE LINE
909+31	-	911+81	STH 23 EB	-	-	63	-	-	-	-	-	-	-	BYPASS LANE
911+56	-	913+56	STH 23 WB	-	-	-	200	-	-	-	-	-	-	TURN LANE
911+56	-	932+27	STH 23 WB	-	-	2071	-	-	-	-	-	-	-	EDGE LINE
925+48	-	927+27	STH 23 EB	-	-	-	45	-	-	-	-	-	-	DASHES
927+27	-	928+77	STH 23 EB	-	-	-	38	-	-	-	-	-	-	DASHES
927+27	-	932+27	STH 23 EB	-	-	-	500	4	3	-	-	-	-	LEFT TURN LANE
928+77	-	932+27	STH 23 EB	-	-	-	350	3	2	-	-	-	-	TURN LANE
933+62	-	967+26	STH 23 WB	-	-	3364	-	-	-	-	-	-	-	EDGE LINE
933+62	-	936+62	STH 23 WB	-	-	-	300	3	2	-	-	-	-	TURN LANE
933+62	-	938+62	STH 23 WB	-	-	-	500	4	3	-	-	-	-	LEFT TURN LANE
933+75	-	950+36	STH 23 EB	-	-	1661	-	-	-	-	-	-	-	EDGE LINE
936+61	-	938+11	STH 23 WB	-	-	-	38	-	-	-	-	-	-	DASHES
938+11	-	940+49	STH 23 WB	-	-	-	60	-	-	-	-	-	-	DASHES
948+36	-	950+36	STH 23 EB	-	-	-	200	-	-	-	-	-	-	TURN LANE
950+08	-	952+58	STH 23 WB	-	-	63	-	-	-	-	-	-	-	BYPASS LANE
951+65	-	972+50	STH 23 EB	-	-	2085	-	-	-	-	-	-	-	EDGE LINE
961+94	-	972+50	STH 23 EB	-	-	264	-	-	-	-	-	-	-	DASHED EDGE LINE
965+34	-	967+14	STH 23 WB	-	-	-	180	-	-	-	-	-	-	LEFT TURN LANE
965+83	-	967+44	STH 23 EB	-	-	161	161	2	1	-	-	20	2	LEFT TURN LANE
967+14	-	967+85	STH 23 WB	-	-	18	-	1	-	-	-	-	-	DASHES
967+85	-	972+50	STH 23 WB	-	-	116	-	-	-	-	-	-	-	DASHED EDGE LINE
968+74	-	972+50	STH 23 EB	-	-	376	-	-	-	-	-	-	-	EDGE LINE
968+74	-	970+67	STH 23 EB	-	-	-	193	-	-	-	-	-	-	TURN LANE
968+63	-	971+68	STH 23 EB	-	-	305	-	1	-	-	-	10	1	LEFT TURN LANE
1+89		3+34	ESTERBROOK RD	-	290	-	72	1	-	-	42	-	-	
4+01		5+08	ESTERBROOK RD	-	214	-	-	-	-	-	37	-	-	
0+80		1+29	RICKMEYER	-	98	-	-	-	-	-	43	-	-	
SUBTOTALS				3628	15786	20274	3063	18	11	693	42	40	4	

PAVEMENT MARKINGS (CONT)																
STATION	TO	STATION	LOCATION	646.1020	646.4520	646.1040	646.3040	646.5020	646.5120	646.7120	646.6120	646.8120	646.8220	REMARKS		
				EPOXY	4-	EPOXY	4-	GROOVED WET	GROOVED WET			DIAGONAL	STOP LINE			ISLAND
				INCH		INCH		REF EPOXY	REF EPOXY			EPOXY	EPOXY		CURB	NOSE
				YELLOW		YELLOW		WHITE	WHITE	ARROW	WORDS	12-INCH	18-INCH		EPOXY	EPOXY
				LF	LF	LF	LF	EACH	EACH	LF	LF	LF	EACH			
1430-18-73, CAT 0010																
972+50	-	976+69	STH 23 EB	-	-	419	-	-	-	-	-	-	-	EDGE LINE		
972+50	-	976+91	STH 23 EB	-	-	110	-	-	-	-	-	-	-	DASHED EDGE LINE		
972+50	-	976+40	STH 23 WB	-	-	390	-	-	-	-	-	-	-	EDGE LINE		
972+50	-	976+40	STH 23 WB	-	-	98	-	-	-	-	-	-	-	DASHED EDGE LINE		
972+82	-	976+72	STH 23 WB	-	390	-	-	-	-	-	-	40	4	EDGE LINE		
974+42	-	975+68	STH 23 EB	-	-	-	252	-	-	-	-	-	-	LEFT TURN LANE		
976+15	-	976+90	STH 23 EB	-	-	-	150	-	-	-	-	-	-	RIGHT TURN LANE		
977+22	-	977+91	STH 23	-	-	-	30	-	-	-	-	-	-	INTERSECTION SKIPS		
977+56	-	979+13	STH 23 WB	-	-	-	228	-	-	-	-	10	1	RIGHT TURN LANE		
977+56	-	980+35	STH 23 WB	-	-	70	-	-	-	-	-	-	-	EDGE LINE		
979+14	-	980+35	STH 23 WB	-	-	121	-	-	-	-	-	-	-	DASHED EDGE LINE		
979+13	-	980+35	STH 23 WB	-	-	31	-	-	-	-	-	-	-	RIGHT TURN SKIPS		
978+94	-	980+19	STH 23 WB	-	-	-	250	-	-	-	-	20	2	LEFT TURN LANE		
977+91	-	980+35	STH 23 EB	-	244	-	-	-	-	-	-	10	1	EDGE LINE		
977+91	-	980+35	STH 23 EB	-	-	61	-	-	-	-	-	-	-	DASHED EDGE LINE		
977+91	-	980+35	STH 23 EB	-	-	61	-	3	2	-	-	-	-	RIGHT TURN SKIPS		
978+34	-	980+35	STH 23 EB	-	-	201	-	-	-	-	-	-	-	EDGE LINE		
SUBTOTALS				0	634	1561	910	3	2	0	0	80	8			
TOTAL				3628	16420	21835	3973	21	13	693	42	120	12			

LOCATING NO-PASSING ZONES				
				648.0100
STATION	TO	STATION	LOCATION	MI
1430-18-72, CAT 0010				
867+48	-	957+71	STH 23	2
TOTAL				2

TEMPORARY PAVEMENT MARKINGS

				649.0120	
				EPOXY	
				YELLOW	
STATION	TO	STATION	LOCATION	LF	REMARKS
1430-18-72, CAT 0010					
872+24	-	885+69	STH 23	1345	SOLID
872+24	-	921+19	STH 23	392	DASHED
904+98	-	910+54	STH 23	556	SOLID
916+16	-	921+19	STH 23	503	SOLID
921+19	-	927+20	STH 23	2404	SOLID
927+20	-	932+28	STH 23	1016	DOUBLE SOLID
933+61	-	938+73	STH 23	1024	DOUBLE SOLID
938+73	-	944+87	STH 23	2456	SOLID
944+87	-	957+77	STH 23	2580	DOUBLE SOLID
957+77	-	961+42	STH 23	1460	DOUBLE SOLID
961+42	-	961+94	STH 23 EB	104	DOUBLE SOLID
961+42	-	965+30	STH 23 EB	388	SOLID
961+42	-	965+30	STH 23 WB	388	SOLID
966+14	-	967+85	STH 23 WB	171	SOLID
968+15	-	971+72	STH 23 EB	357	SOLID
SUBTOTALS				15144	
1430-18-73, CAT 0010					
972+50	-	980+35	STH 23	393	DASHED
SUBTOTALS				393	
TOTAL				15536	

CONSTRUCTION STAKING RESURFACING REFERENCE

				650.8000
STATION	TO	STATION	LOCATION	LF
1430-18-72, CAT 0010				
872+77	-	972+50	STH 23	9973
SUBTOTALS				9973
1430-18-73, CAT 0010				
972+50	-	980+35	STH 23	785
SUBTOTALS				785
TOTAL				10758

CONSTRUCTION STAKING SUPPLEMENTAL CONTROL (PROJECT)

		650.9910	
		LS	REMARKS
1430-18-72, CAT 0010			
1430-18-72		1	
SUBTOTALS		1	
1430-18-73, CAT 0010			
143-18-73		1	
SUBTOTALS		1	
TOTAL		2	

CONSTRUCTION STAKING SLOPE STAKES

					650.9920
STATION	TO	STATION	LOCATION	LF	
1430-18-72, CAT 0010					
921+24	-	932+62	STH 23 RT	1246	
932+27	-	932+61	STH 23 LT	110	
933+19	-	933+62	STH 23 LT	116	
933+43	-	944+91	STH 23 RT	1250	
947+01	-	950+84	STH 23 RT	419	
951+51	-	954+76	STH 23 RT	385	
947+01	-	954+76	STH 23 LT	772	
TOTAL				4298	

CONSTRUCTION STAKING SUBGRADE

				650.4500	
CATEGORY	STATION	TO	STATION	LOCATION	LF
0010					
0010					
0010					
0010					
0010					
0010					
0010					
0010					
0010					
TOTAL 0010					0

CONVENTIONAL ABBREVIATIONS AND SYMBOLS

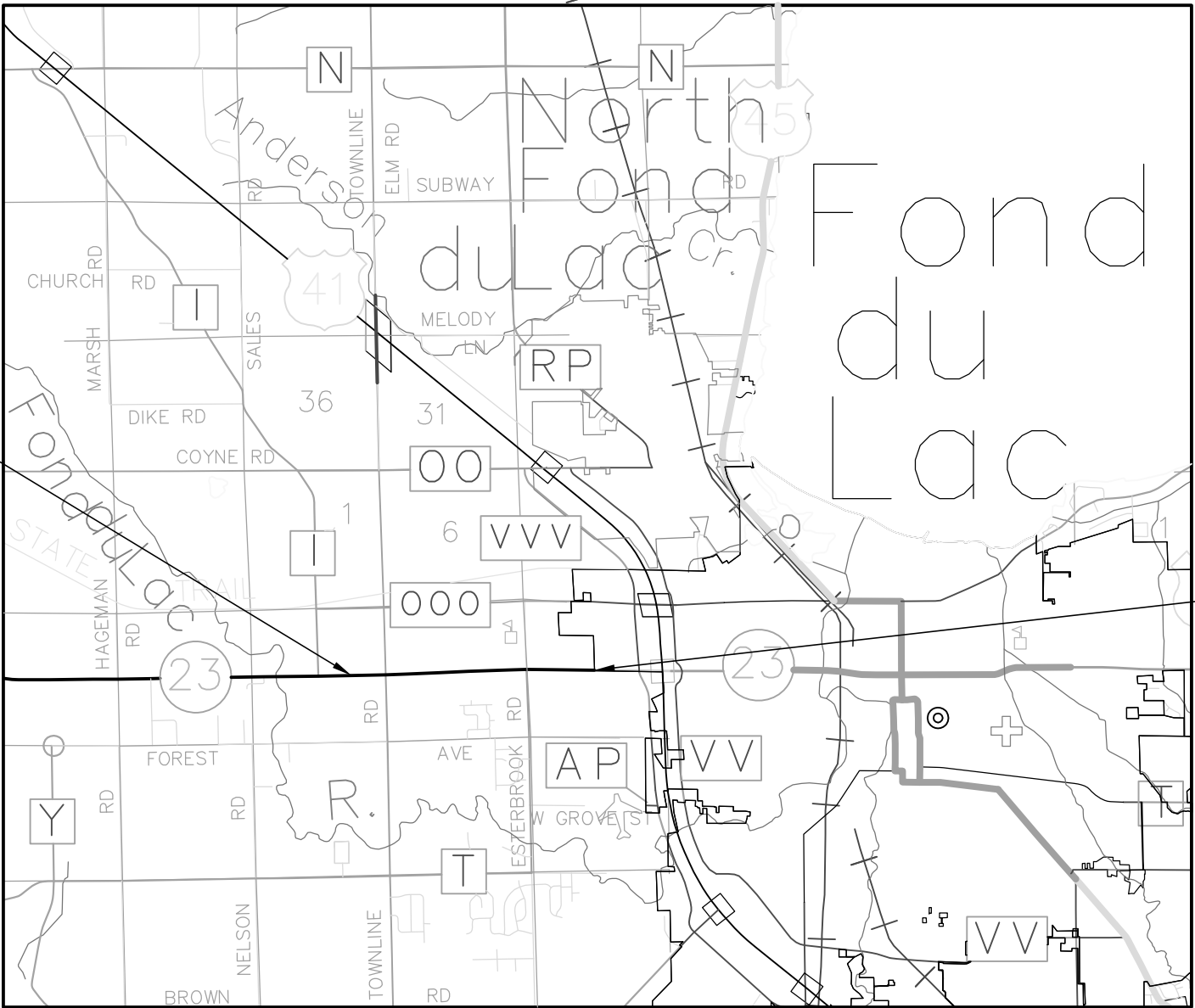
ACCESS POINT	AP	SECTION CORNER	+
ACCESS RIGHTS	AR	(MATERIAL AS NOTED)	
ACRES	CH BRG	SET R/W MONUMENT W/CAP	o
CHORD BEARING	CH DIS	(1-1/4" OUTSIDE DIA., 118"	
CHORD DISTANCE	(D)	IRON PIPE 1.13 LBS/FT)	
DEED	DOC	FOUND TYPE 2 MON.	•
EAST BOUND	EB	FOUND 3/4" REBAR	•
GAS VALVE	GV	SET P.K., NAIL	Δ
INLET	IL	PROPOSED R/W	PRW000
LENGTH OF CURVE	• MH	BOUNDARY POINT	
MANHOLE	MON	CORPORATE LIMITS	=====
MONUMENT	NO	EXISTING R/W	=====
NORTH BOUND	PG	SECTION LINE	=====
PAGE	PERM	QUARTER LINE	=====
PERMANENT LIMITED EASEMENT	PLE	SIXTEENTH LINE	=====
PRIVATE DRIVEWAY	PD	PROPOSED OR NEW R/W LINE	=====
PROPERTY LINE	PL	PROPOSED EASEMENT LINE	=====
RADIUS	RAD	PARCEL NUMBER	00
REFERENCE LINE	REM	UTILITY NUMBER	000
REMAINING	R/W	SIGN NUMBER	0-0
RIGHT OF WAY	SEC		
SECTION LINE	S		
FOUND IRON PIPE	IP		
STATION	STA		
TEMPORARY LIMITED EASEMENT	TLE		
TIE POINT	DB1		
VOLUME	VOL		
ADJOINING LANDS			
WITH SAME OWNER			
PARALLEL TO LINE	00'		
BUILDING TO BE RAZED			
FEE ACQUISITION	VARIOUS HATCHING		
BEGIN POINT	BP		
END POINT	EP		

CONVENTIONAL UTILITY SYMBOLS

WATER	W
GAS	G
TELEPHONE	T
OVERHEAD	OH
TRANSMISSION LINES	
ELECTRIC	E
CABLE TELEVISION	TV
FIBER OPTIC	FO
SANITARY SEWER	SAN
STORM SEWER	SS
NON-COMPENSABLE	
COMPENSABLE	
POWER POLE	B
TELEPHONE POLE	Ø
TELEPHONE PEDESTAL	X
ELECTRIC TOWER	X

BEGIN RELOCATION ORDER
PROJECT 1401-18-21
STATION 867+48.00

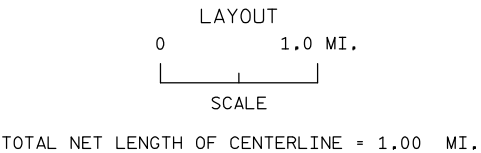
R/W PROJECT NUMBER	SHEET	TOTAL
1430-18-21	NUMBER	SHEETS
FEDERAL PROJECT NUMBER	4.01	2
PLAT OF RIGHT OF WAY REQUIRED FOR ROSENDALE - FOND DU LAC STH 26 - N. ROLLING MEADOWS DR/CTH VVV STH 23 FOND DU LAC COUNTY		



END RELOCATION ORDER
PROJECT 1430-18-21
STATION 980+35.00

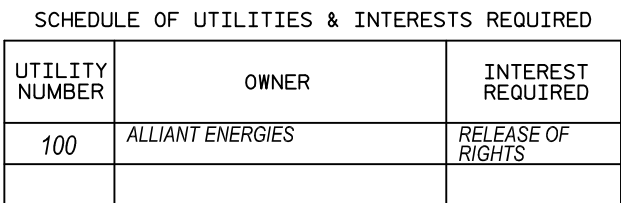
NOTES:

- RIGHT OF WAY BOUNDARIES ARE DEFINED WITH COURSES OF THE PERIMETER OF THE HIGHWAY LANDS AND ARE REFERENCED TO THE US PUBLIC LAND SURVEY OR OTHER SURVEYS OF PUBLIC RECORD.
- RIGHT OF WAY MONUMENTS ARE TYPE 2 MONUMENTS (TYPICALLY 1" X 24" IRON PIPE) AND WILL BE PLACED PRIOR TO COMPLETION OF PROJECT.
- AREAS SHOWN IN THE TOTAL ACRES COLUMN OF THE SCHEDULE OF LANDS & INTEREST TABLE MAY BE APPROXIMATE AND ARE DERIVED FROM TAX ROLLS OR OTHER AVAILABLE SOURCES AND MAY NOT INCLUDE LANDS OF THE OWNER WHICH ARE NOT CONTIGUOUS TO THE AREA TO BE ACQUIRED.
- COORDINATES AS SHOWN ARE NOT INTENDED TO BE USED FOR RETRACEMENT PURPOSES AND MUST BE VERIFIED WITH THE COUNTY SURVEY DEPARTMENT.
- POSITIONS SHOWN ON THIS PLAT ARE WISCONSIN COORDINATES REFERENCE SYSTEM COORDINATES (WISCRS), FOND DU LAC COUNTY, NAD 83 (2007) IN US SURVEY FEET. VALUES SHOWN ARE GRID COORDINATES, GRID BEARINGS, GRID DISTANCES. GRID DISTANCES MAY BE USED AS GROUND DISTANCES.
- PROPERTY LINES SHOWN ON THIS PLAT ARE DRAWN FROM DATA DERIVED FROM MAPS AND DOCUMENTS OF PUBLIC RECORD AND/OR EXISTING OCCUPATIONAL LINES. THIS PLAT MAY NOT BE A TRUE REPRESENTATION OF EXISTING PROPERTY LINES AND SHOULD NOT BE USED AS A SUBSTITUTE FOR AN ACCURATE FIELD SURVEY.
- EXISTING RIGHT OF WAY WAS ACQUIRED FROM PROJECT(S); T026-1125)
- EXISTING ACCESS CONTROL WAS ACQUIRED UNDER PROJECT(S)/DOC; T026-1125)
- RIGHT OF WAY REFERENCE LINE MAY NOT BE THE SAME AS THE CONSTRUCTION REFERENCE LINE.
- OWNER'S NAMES ARE SHOWN FOR REFERENCE PURPOSES ONLY, AND ARE SUBJECT TO CHANGE PRIOR TO TRANSFER OF LAND INTERESTS TO DEPARTMENT OF TRANSPORTATION.
- FEE SIMPLE TO ALL THOSE EXISTING LANDS OF THE GRANTOR CURRENTLY USED FOR HIGHWAY PURPOSES, DESIGNATED AS EXISTING RIGHT OF WAY, WHETHER ACQUIRED BY SEPARATE CONVEYANCE OR OTHERWISE, BOUND BY THE TRAVERSE OF THE COURSE TABLE OF NEW RIGHT OF WAY AS SHOWN ON THE SAID TRANSPORTATION PROJECT PLAT.



GN

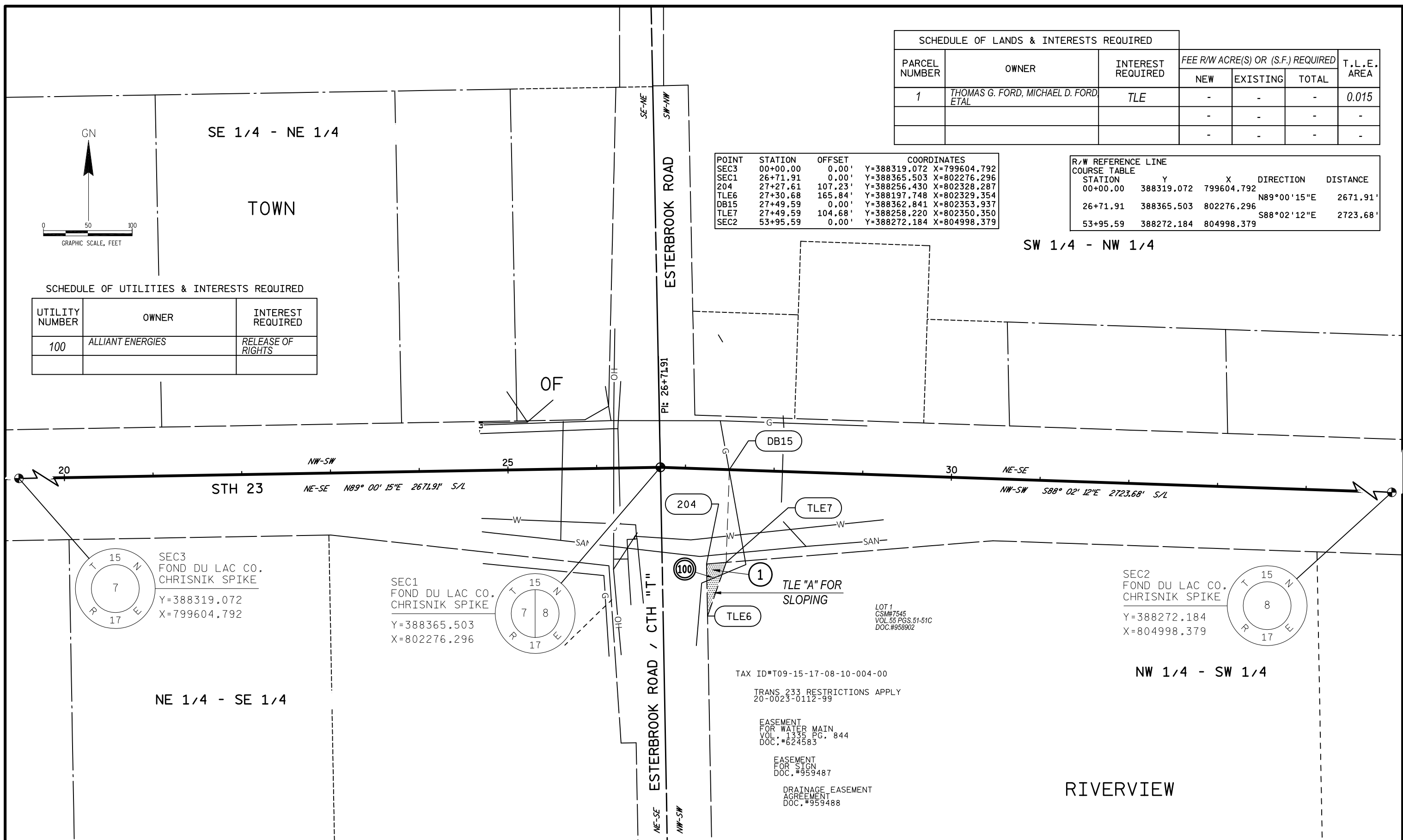
REVISION DATE	STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION
	APPROVED:
	DATE: _____ CURT VAN EREM



SCHEDULE OF LANDS & INTERESTS REQUIRED			FEE R/W ACRE(S) OR (S.F.) REQUIRED			T.L.E. AREA
PARCEL NUMBER	OWNER	INTEREST REQUIRED	NEW	EXISTING	TOTAL	
1	THOMAS G. FORD, MICHAEL D. FORD, ETAL	TLE	-	-	-	0.015
			-	-	-	-
			-	-	-	-

POINT	STATION	OFFSET	COORDINATES
SEC3	00+00.00	0.00'	Y=388319.072 X=799604.792
SEC1	26+71.91	0.00'	Y=388365.503 X=802276.296
204	27+27.61	107.23'	Y=388256.430 X=802328.287
TL6E	27+30.68	165.84'	Y=388197.748 X=802329.354
DB15	27+49.59	0.00'	Y=388362.841 X=802353.937
TL7E	27+49.59	104.68'	Y=388258.220 X=802350.350
SEC2	53+95.59	0.00'	Y=388272.184 X=804998.379

R/W REFERENCE LINE				
COURSE TABLE				
STATION	Y	X	DIRECTION	DISTANCE
00+00.00	388319.072	799604.792		
			N89°00'15"E	2671.91'
26+71.91	388365.503	802276.296		
			S88°02'12"E	2723.68'
53+95.59	388272.184	804998.379		

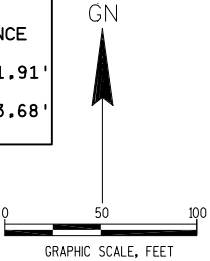


	DATE	1" = 100'	HWY:	STATE R/W PROJECT NUMBER: 1430-18-21	PLAT SHEET NO: 4.02	
			COUNTY: FOND DU LAC	CONSTRUCTION PROJECT NUMBER	PS&E SHEET NO:	E

SCHEDULE OF LANDS & INTERESTS REQUIRED						
PARCEL NUMBER	OWNER	INTEREST REQUIRED	FEE R/W ACRE(S) OR (S.F.) REQUIRED			T.L.E. AREA
			NEW	EXISTING	TOTAL	
2	N6688 WRIGHTWAY DRIVE, LLC.	TLE	-	-	-	0.004
3	MARK W. FEUCHT AND BEVERLY J. FEUCHT	TLE	-	-	-	0.005
			-	-	-	-

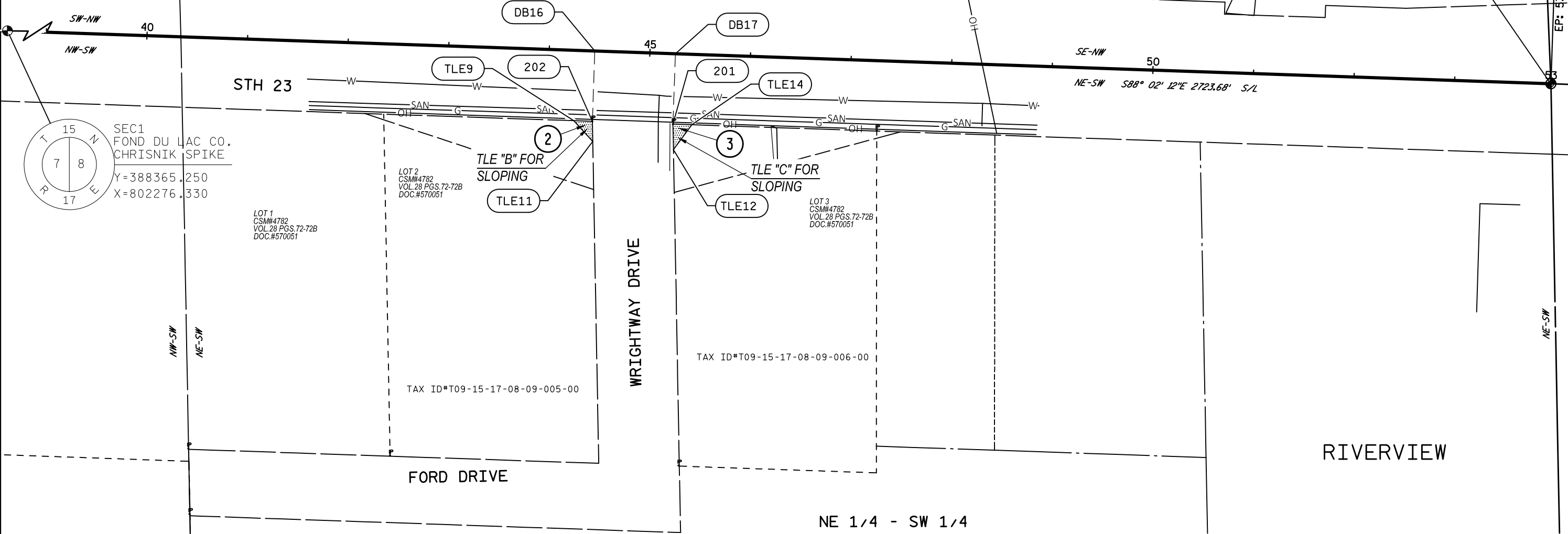
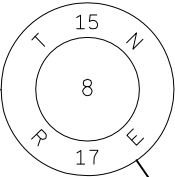
SE 1/4 - NW 1/4

R/W REFERENCE LINE COURSE TABLE				
STATION	Y	X	DIRECTION	DISTANCE
00+00.00	388319.072	799604.792	N89°00'15"E	2671.91'
26+71.91	388365.503	802276.296	S88°02'12"E	2723.68'
53+95.59	388272.184	804998.379		



POINT	STATION	OFFSET	COORDINATES	
SEC3	00+00.00	0.00'	Y=388319.072	X=799604.792
SEC1	26+71.91	0.00'	Y=388365.503	X=802276.296
TLE9	44+26.64	70.00'	Y=388235.423	X=804027.599
DB16	44+45.17	0.00'	Y=388304.747	X=804048.515
202	44+45.17	70.00'	Y=388234.789	X=804046.116
TLE11	44+46.23	89.98'	Y=388214.788	X=804046.489
DB17	45+25.28	0.00'	Y=388302.003	X=804128.580
201	45+25.28	70.00'	Y=388232.044	X=804126.181
TLE12	45+26.62	95.41'	Y=388206.606	X=804126.656
TLE14	45+44.10	70.00'	Y=388231.399	X=804144.992
SEC2	53+95.59	0.00'	Y=388272.184	X=804998.379

SEC2
FOND DU LAC CO.
CHRISNIK SPIKE
Y=388272.100
X=804998.450



5

5



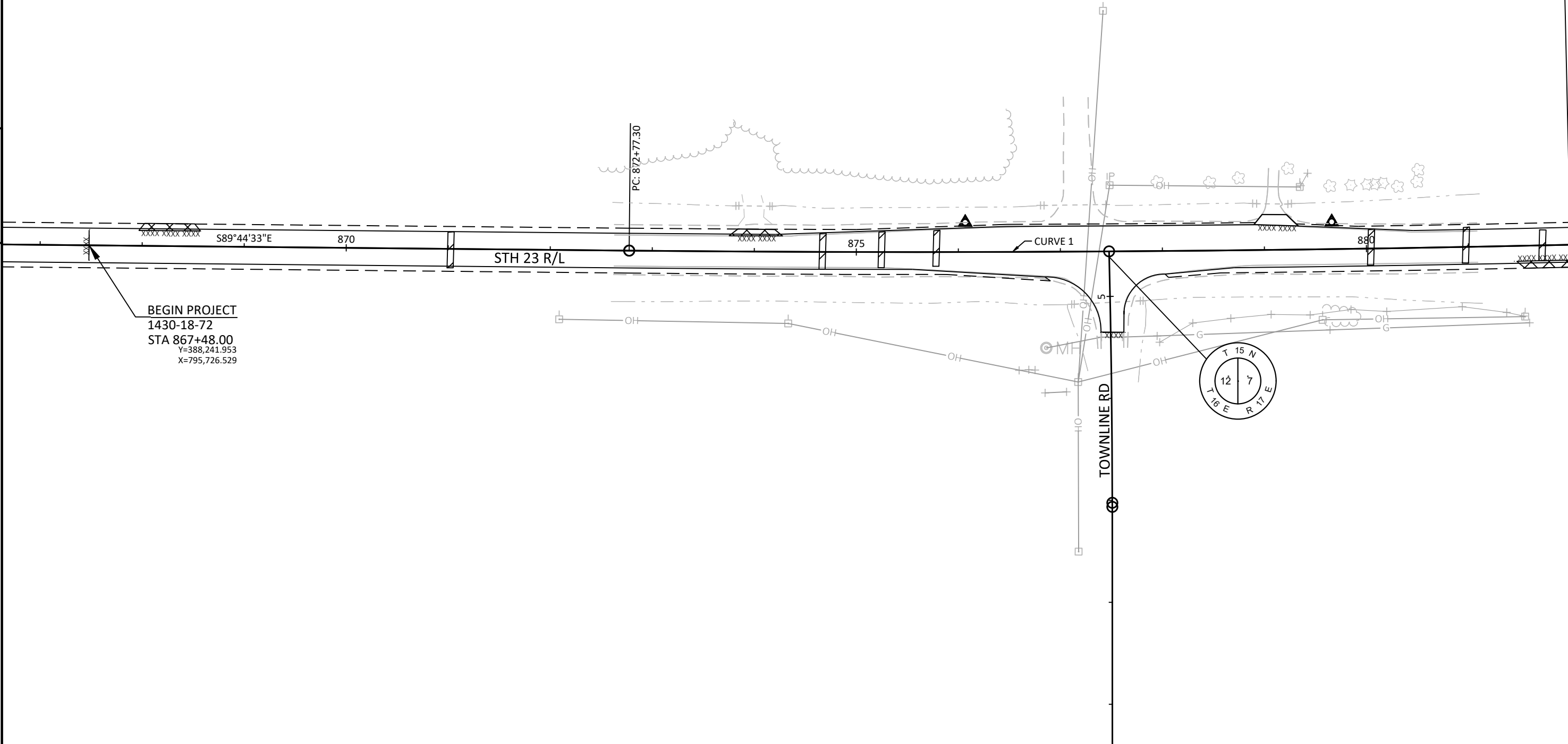
CURVE 1
PI STA = 877+47.76
Y = 388237.458
X = 796726.279
DELTA = 1°52'54"
D = 0°12'00"
T = 470.46'
L = 940.83'
R = 28647.90'
PC STA = 872+77.30
PT STA = 882+18.13

LEGEND

 SAWING ASPHALT

 REMOVING CONCRETE SURFACE

 REMOVING ASPHALT SURFACE



BEGIN PROJECT
1430-18-72
STA 867+48.00
Y=388,241.953
X=795,726.529

PROJECT NO: 1430-18-72/73

HWY: STH 23

COUNTY: FOND DU LAC

PLAN SHEETS

SHEET

E

5

MATCH LINE 882+00.00

LEGEND

XXXX	SAWING ASPHALT
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 REMOVING CONCRETE SURFACE REMOVING ASPHALT SURFACE

P

5

[illegible]

PROJECT NO:	1430-18-72/73
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HWY: STH 23

COUNTY: FOND DU LAC

PLAN SHEETS

SHEET

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FILE NAME : N:\PDS\C3D\14301800\SHEETSPLAN\1430-18-72-73\050201-PN.DWG
LAYOUT NAME - 050202-pn

PLOT DATE : 3/20/2018 2:28 PM

PLOT BY : SMITH, JENNIFER B

PLOT NAME :

PLOT SCALE : 1 IN: 100FT

WISDOT/CADDS SHEET 44

5

5

LEGEND

XXXX

SAWING ASPHALT

REMOVING CONCRETE SURFACE

REMOVING ASPHALT SURFACE

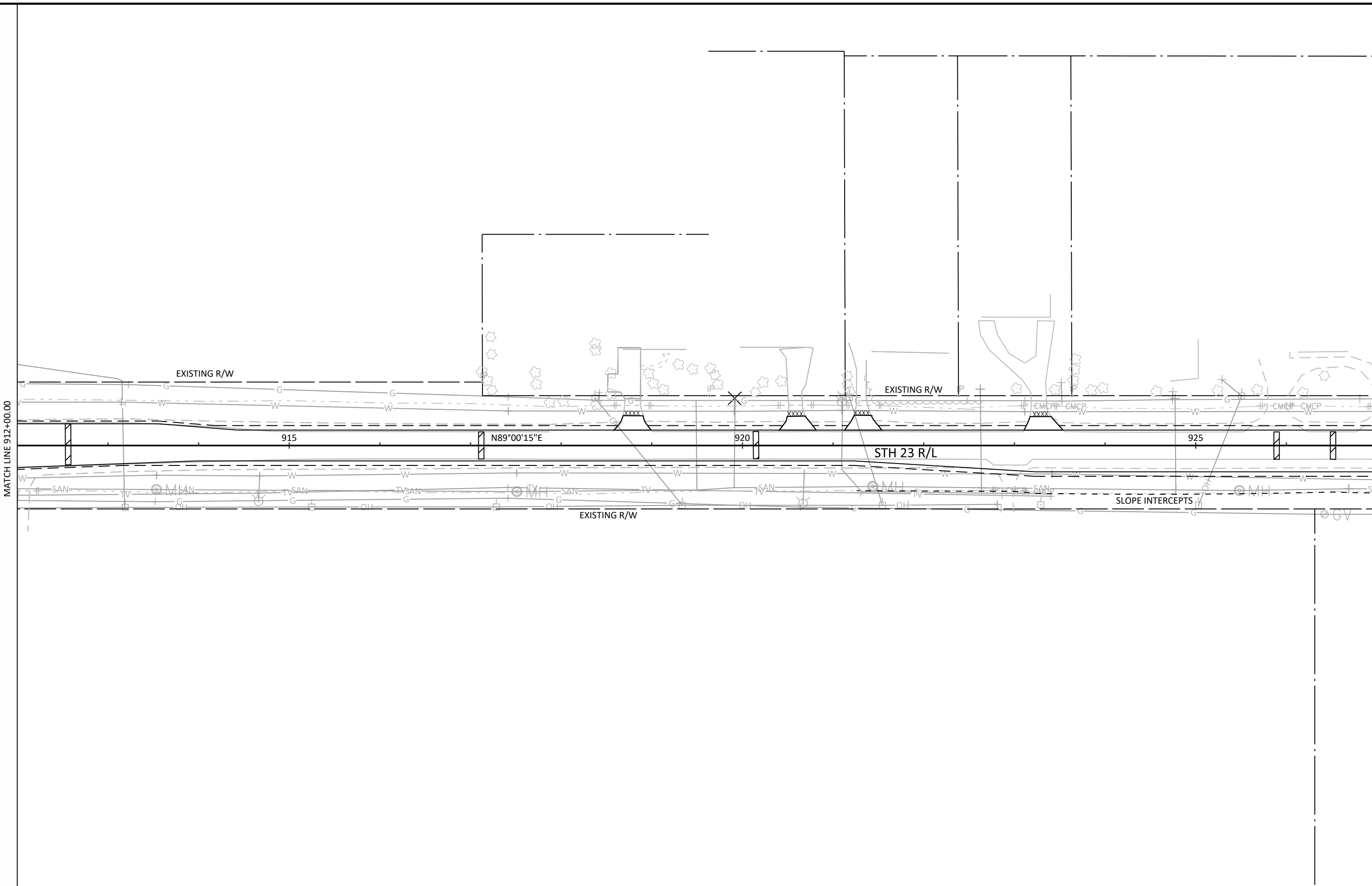
MATCH LINE 897+00.00

MATCH LINE 912+00.00

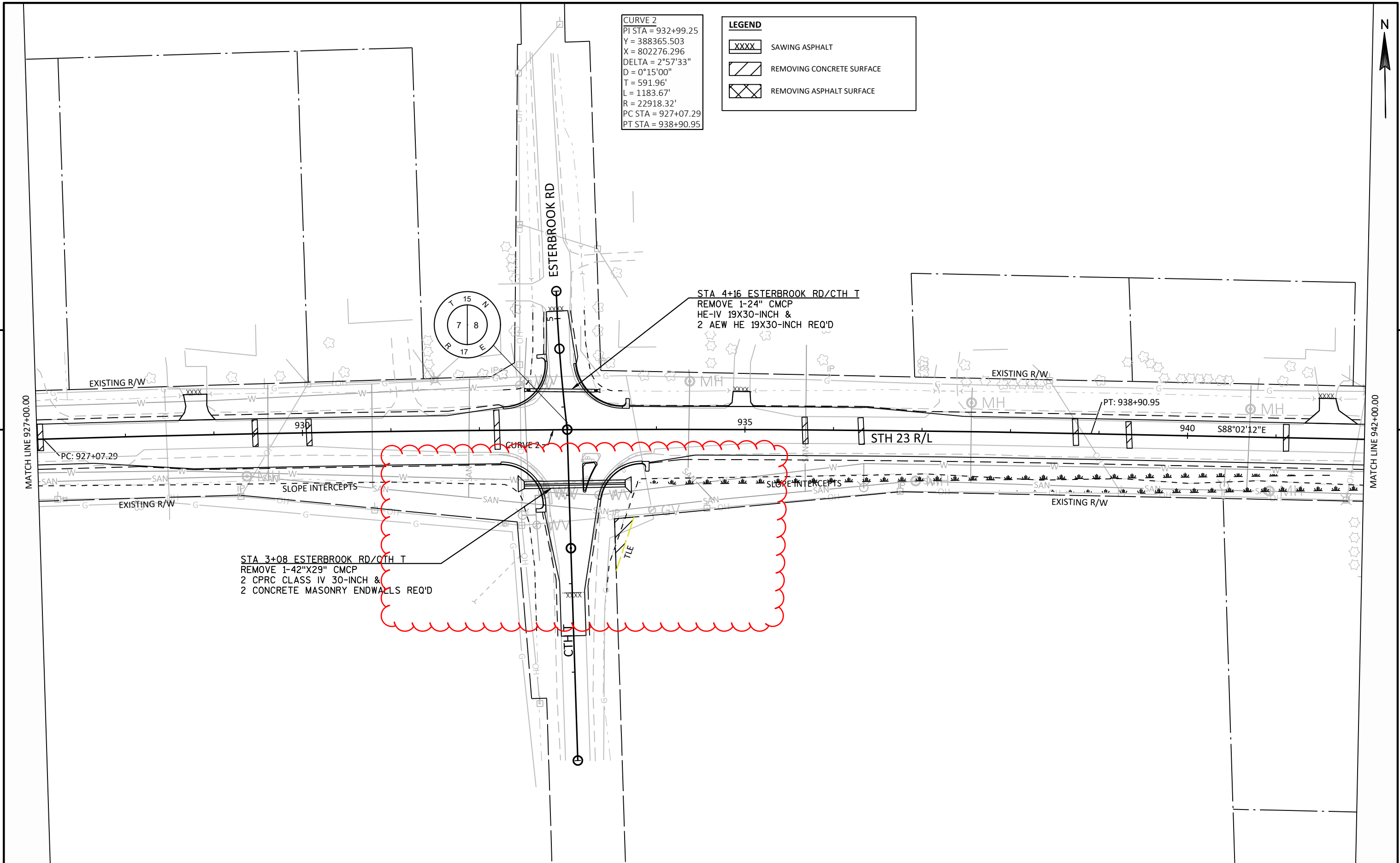


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PROJECT NO: 1430-18-72/73	HWY: STH 23	COUNTY: FOND DU LAC	PLAN SHEETS	SHEET	E
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LEGEND

XXXX

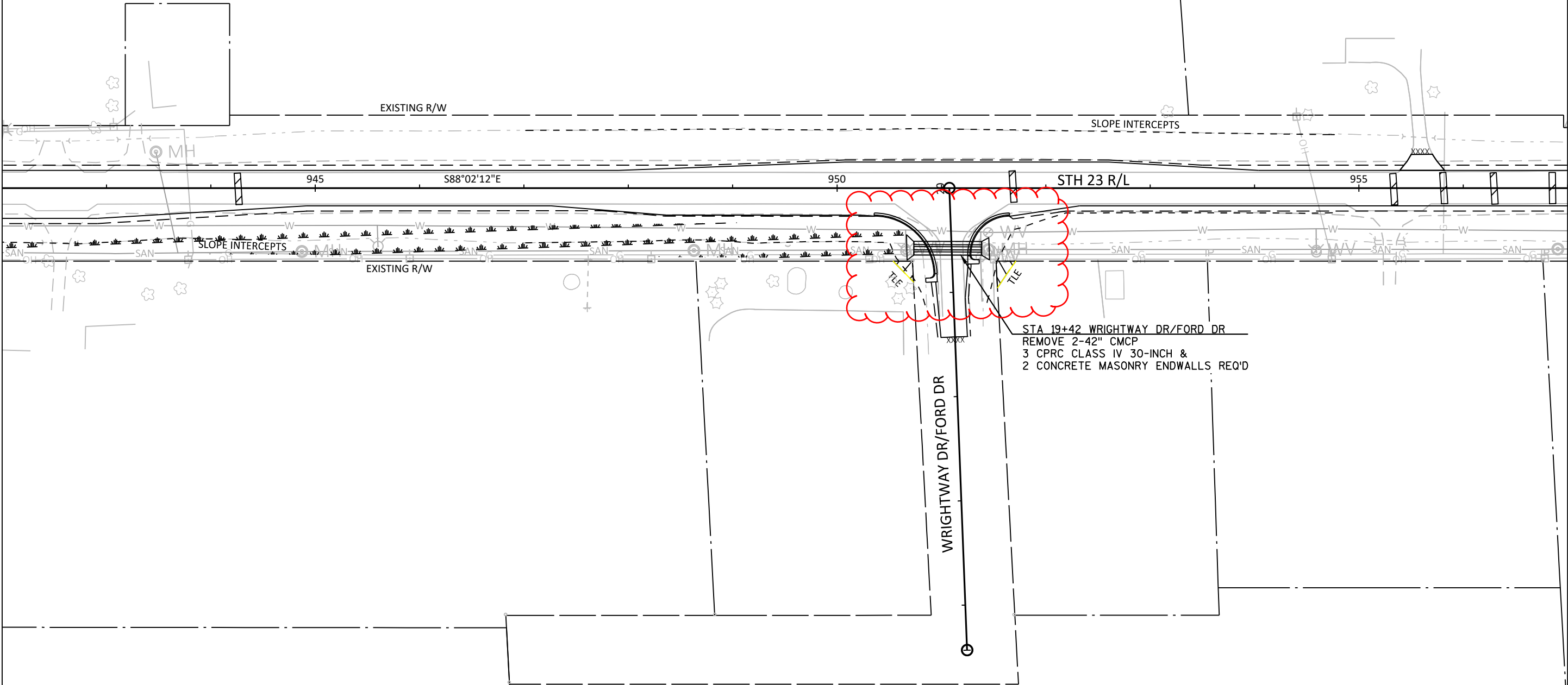
SAWING ASPHALT

REMOVING CONCRETE SURFACE

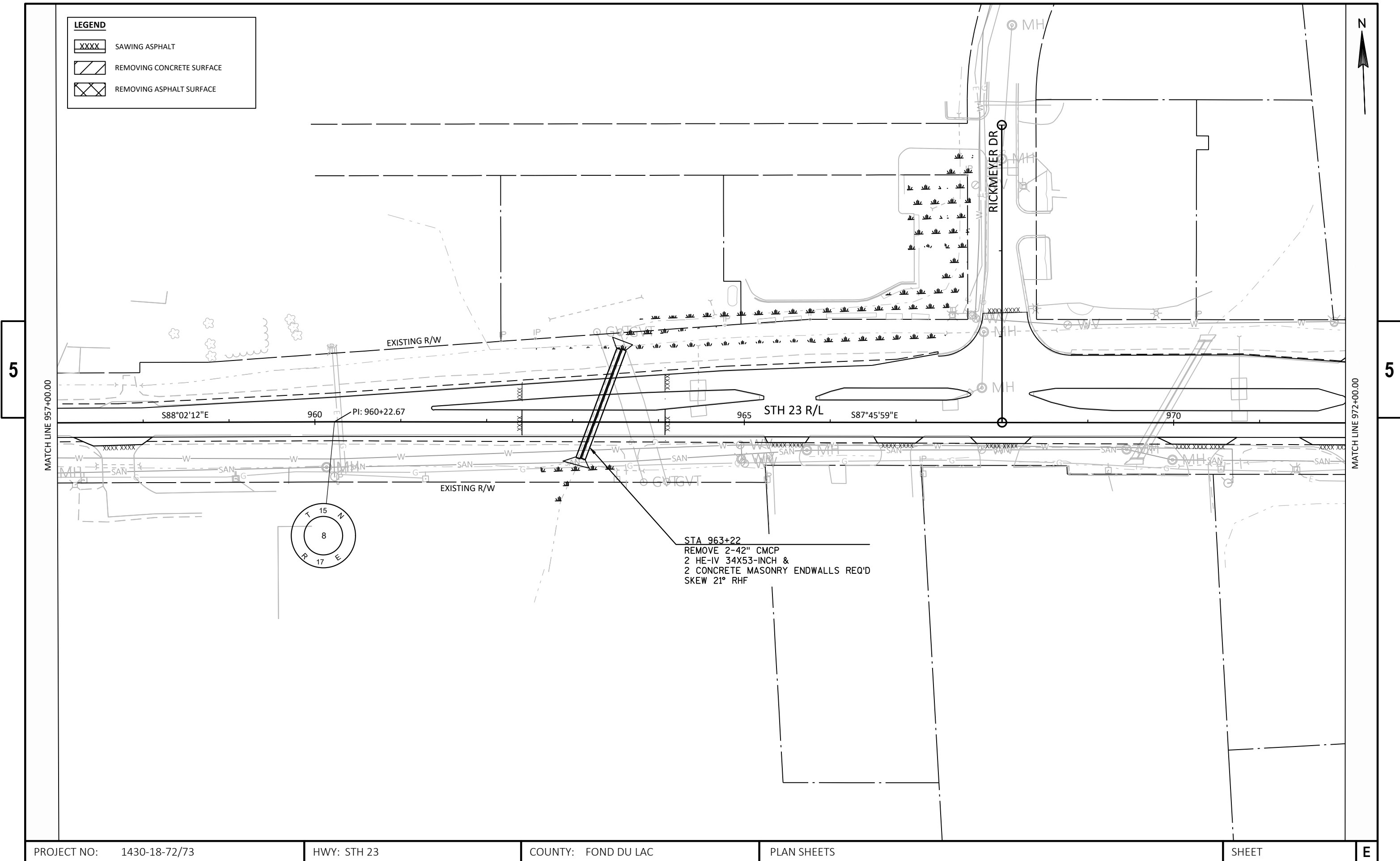
REMOVING ASPHALT SURFACE

MATCH LINE 942+00.00

MATCH LINE 957+00.00

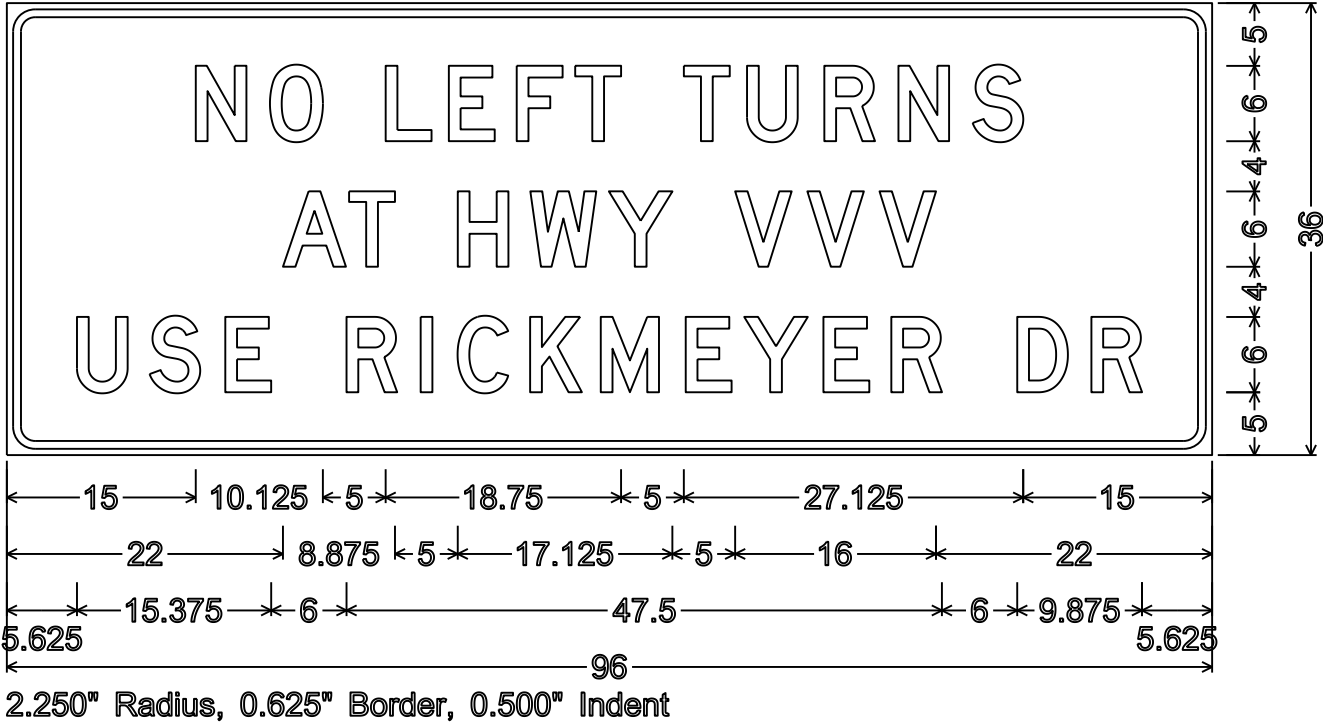


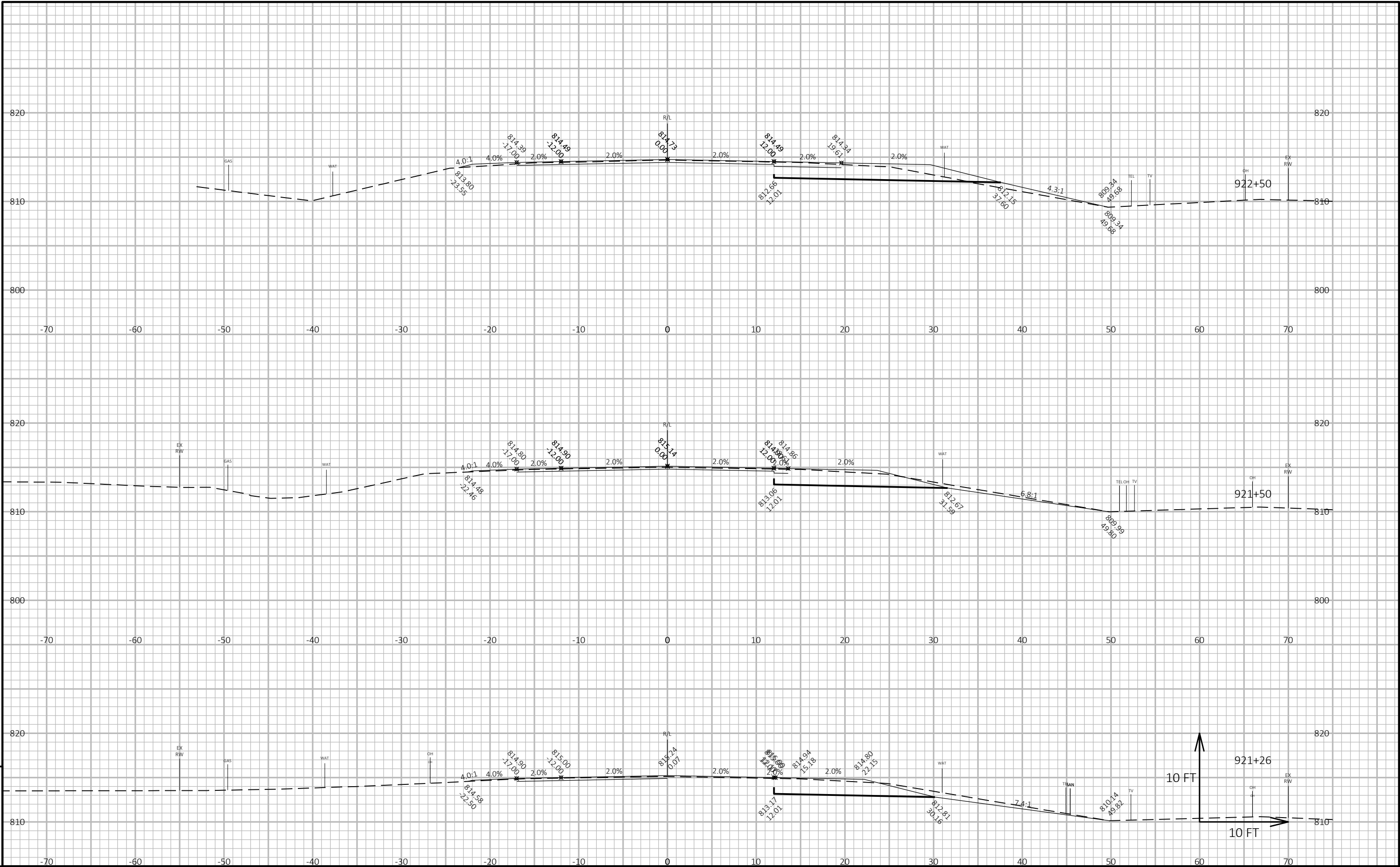
PROJECT NO: 1430-18-72/73	HWY: STH 23	COUNTY: FOND DU LAC	PLAN SHEETS	SHEET	E
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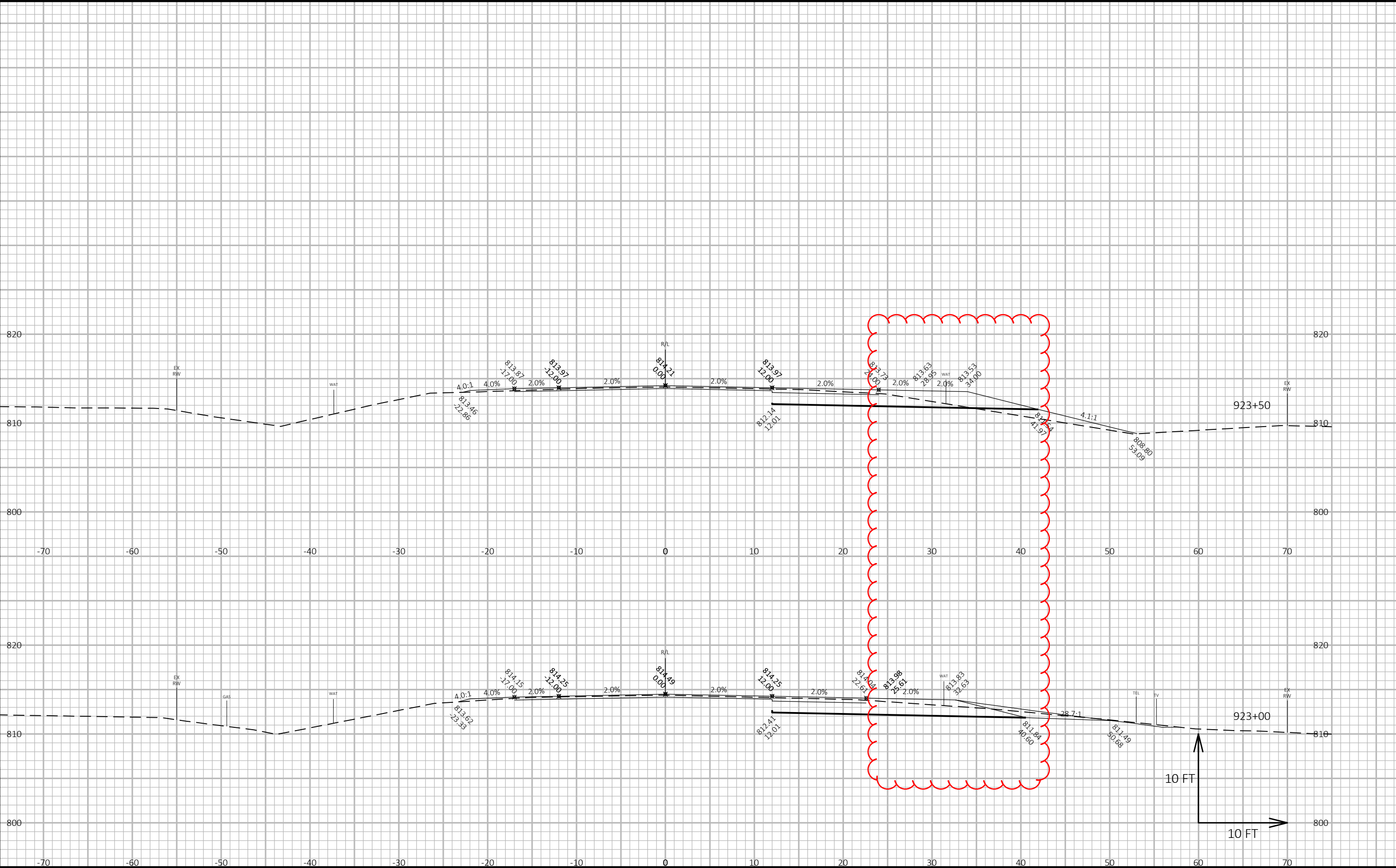


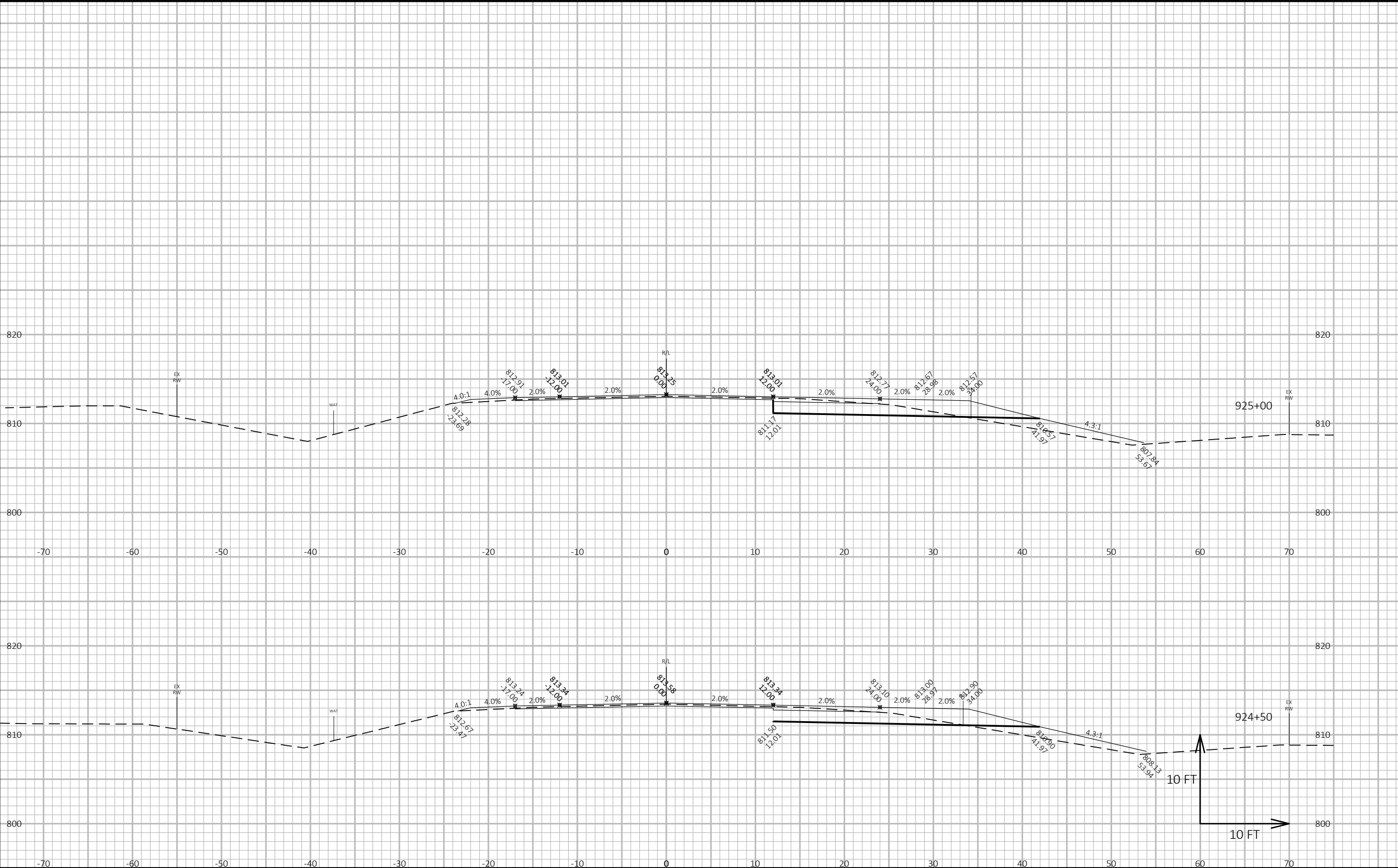
NOTES

- 1. Fixed Message Type II Signs - Type F Reflective
- 2. Color:
 - Background - Orange
 - Message - Black
- 3. Message Series - D

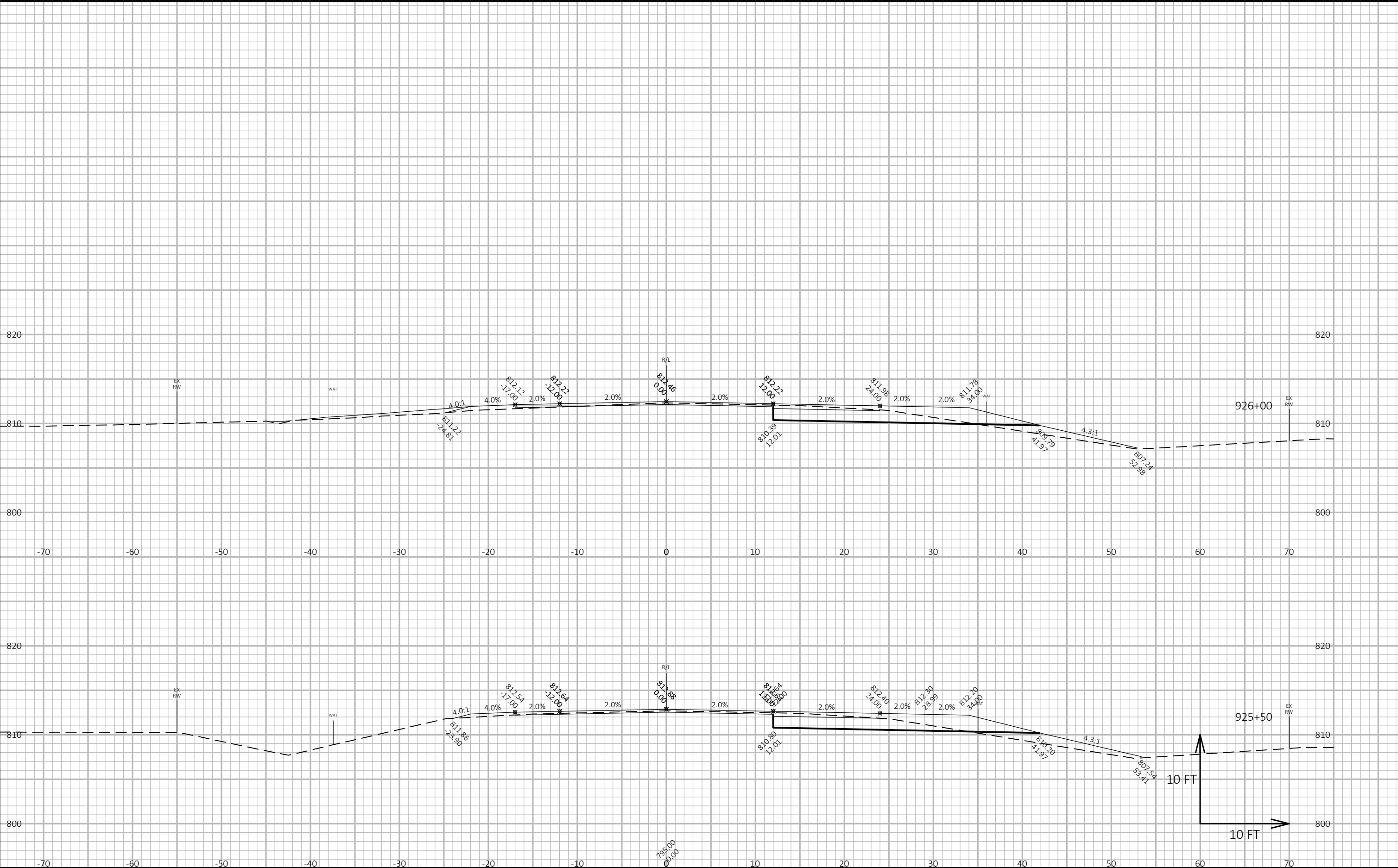




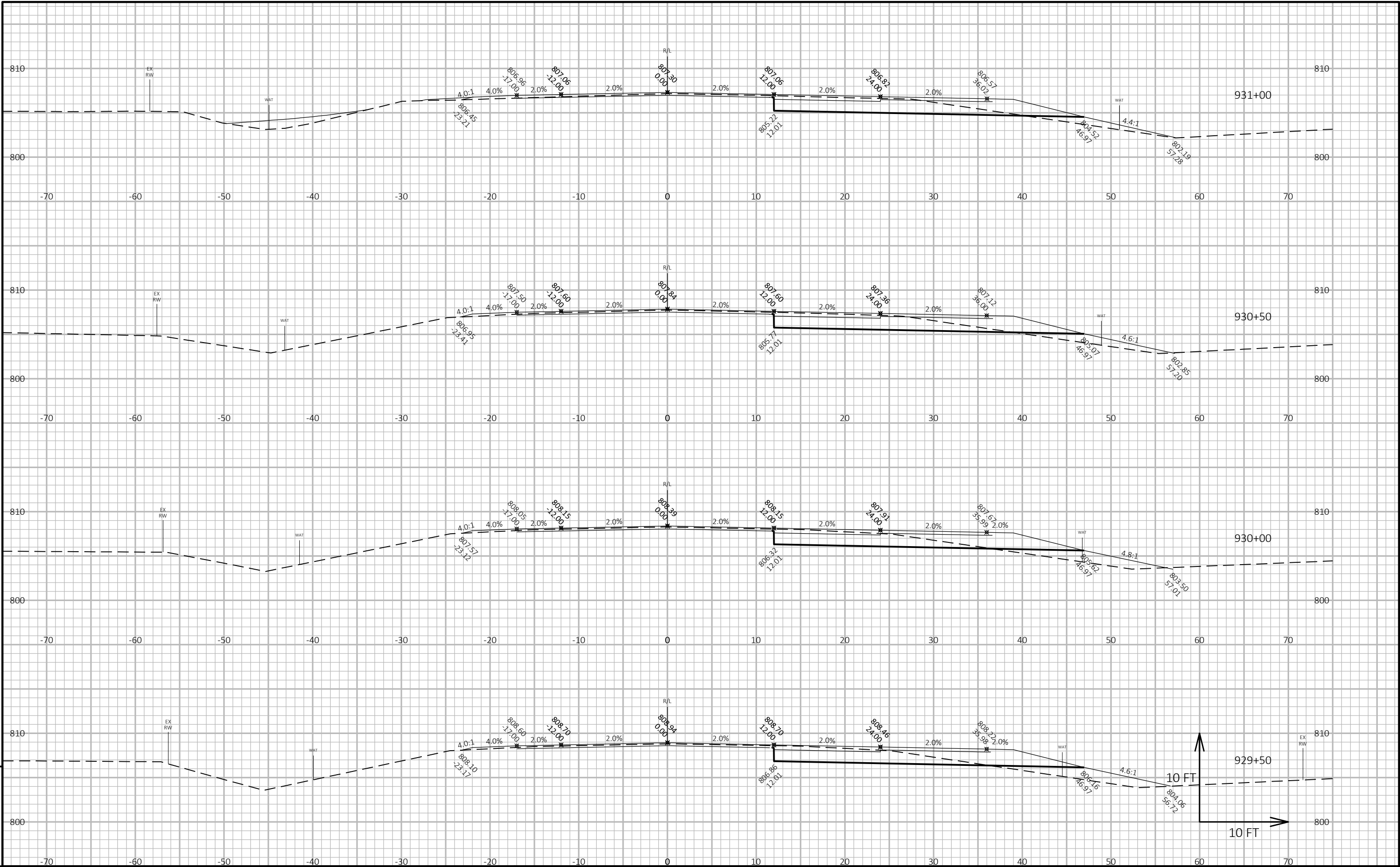




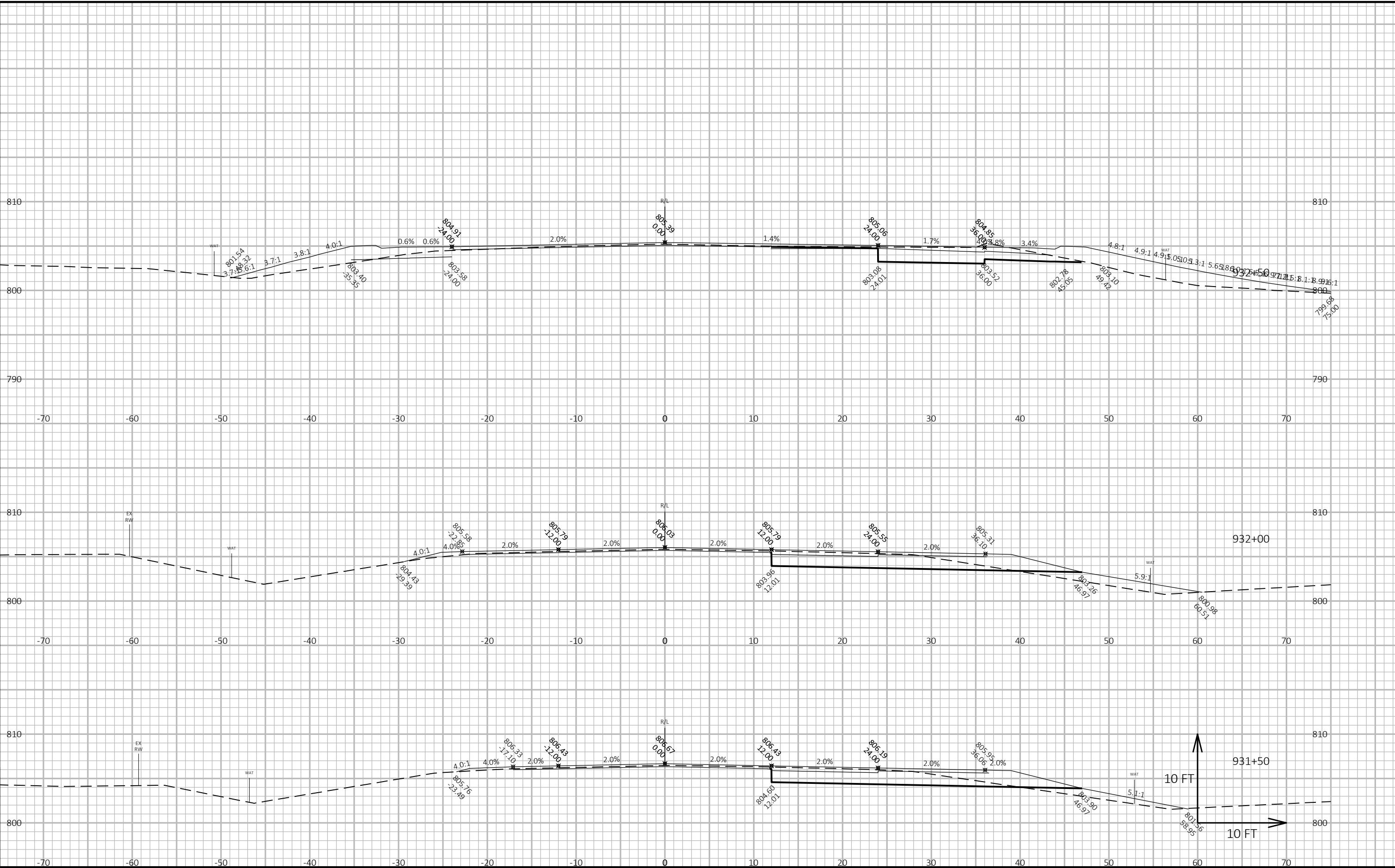
PROJECT NO:	1430-18-72/73	HWY:	STH 23	COUNTY:	FOND DU LAC	CROSS SECTIONS:	STH 23 @ ESTERBROOK RD	SHEET	E
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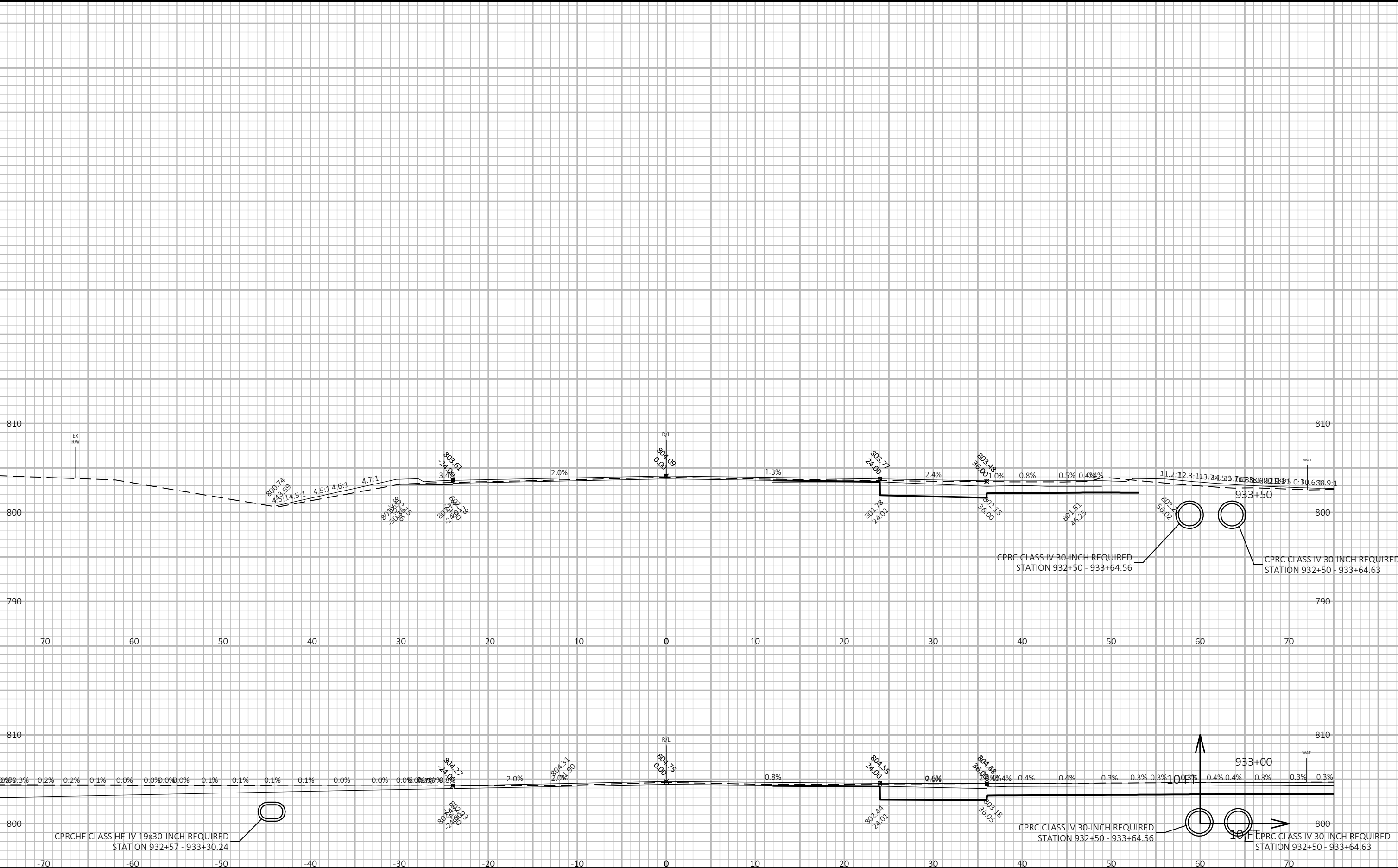


PROJECT NO: 1430-18-72/73	HWY: STH 23	COUNTY: FOND DU LAC	CROSS SECTIONS: STH 23 @ ESTERBROOK RD	SHEET E
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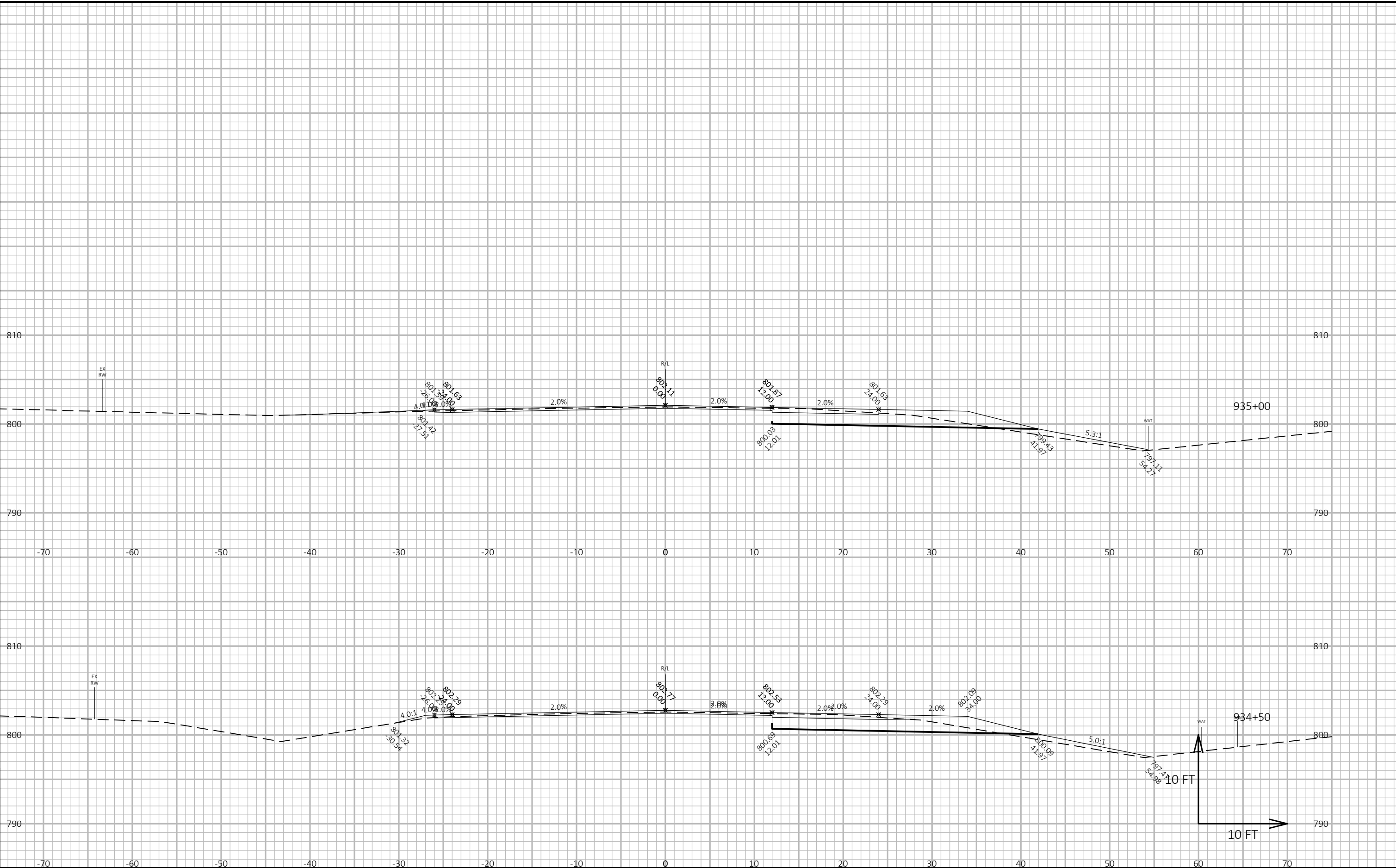


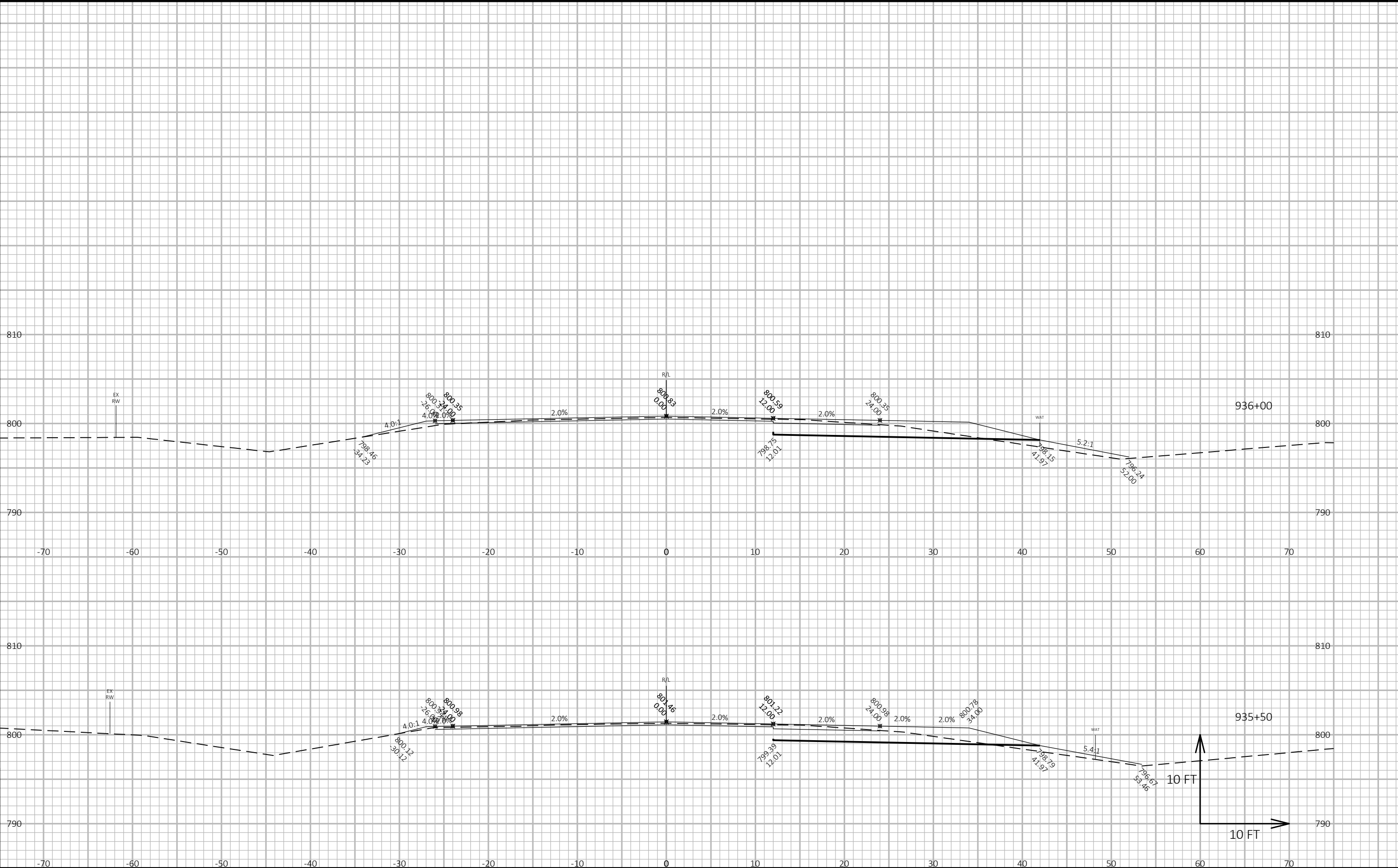
PROJECT NO: 1430-18-72/73	HWY: STH 23	COUNTY: FOND DU LAC	CROSS SECTIONS: STH 23 @ ESTERBROOK RD	SHEET E
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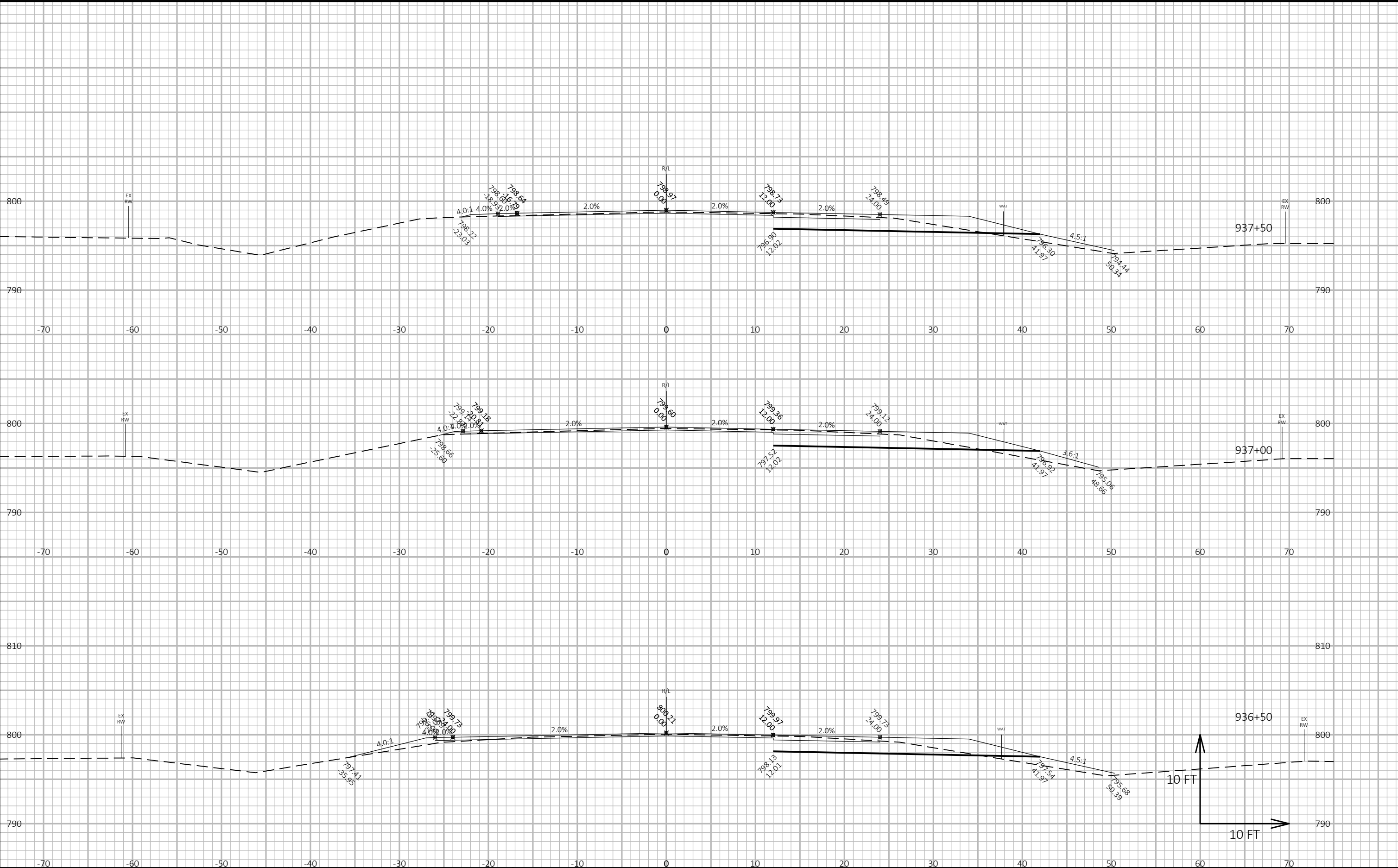




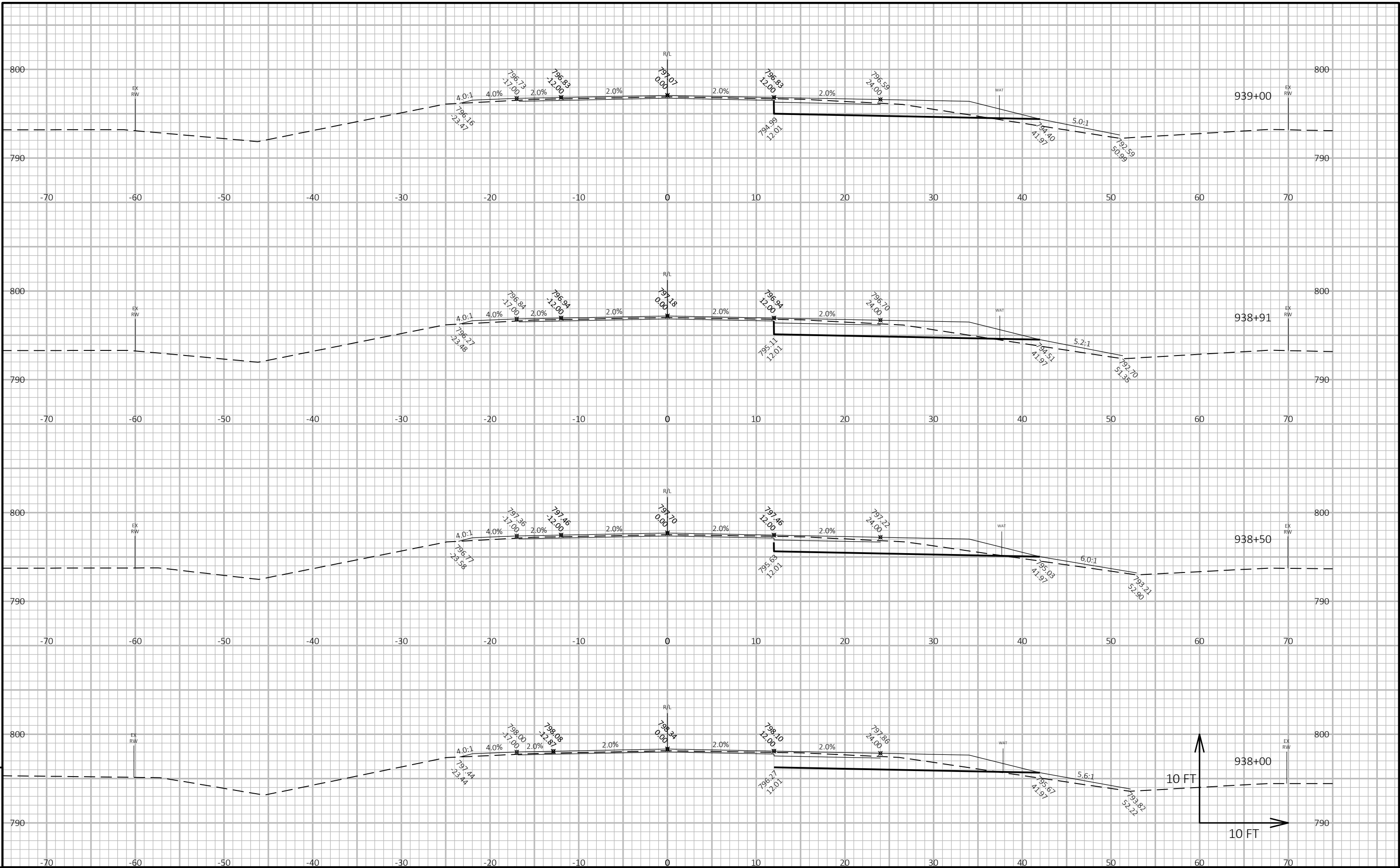
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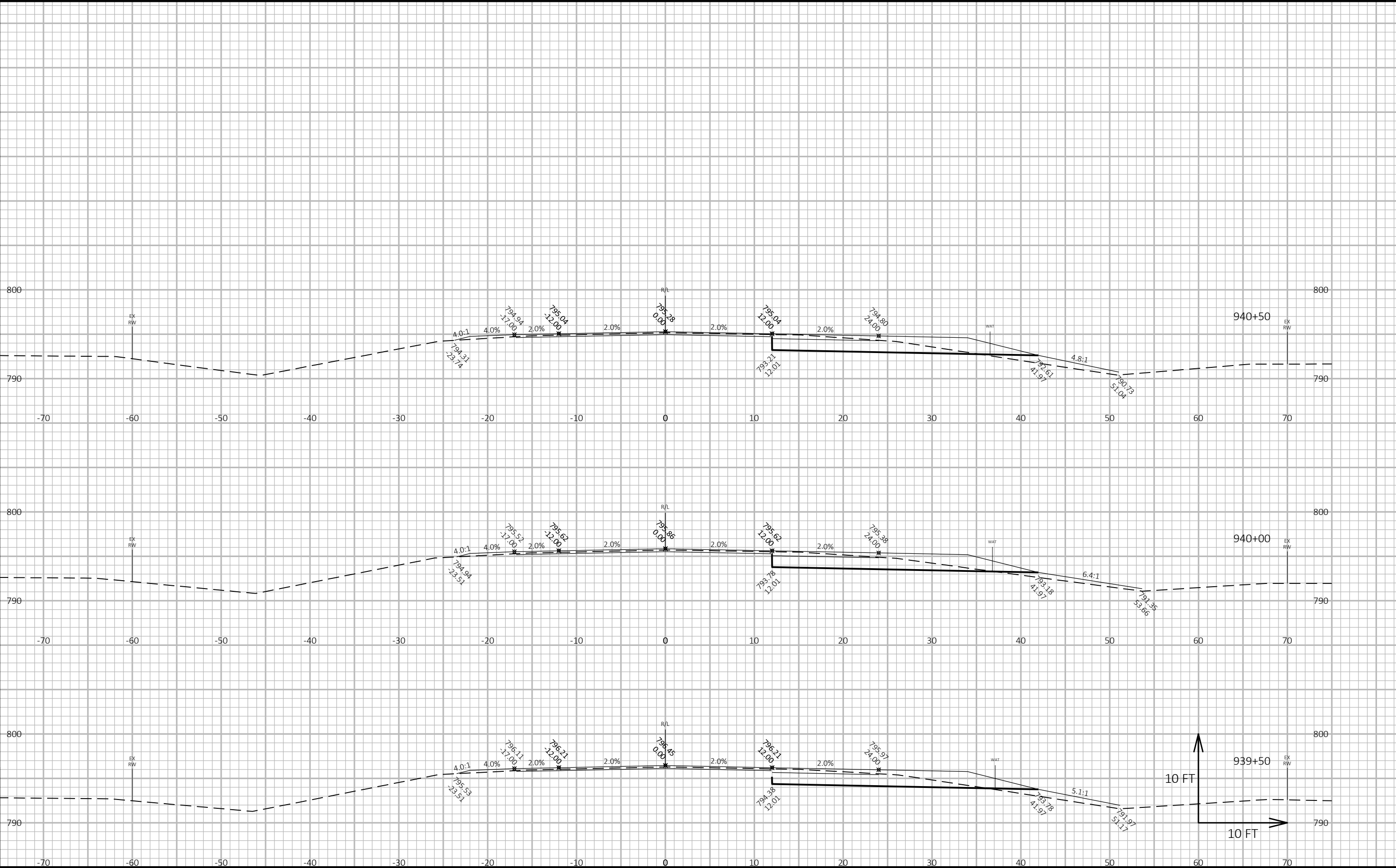


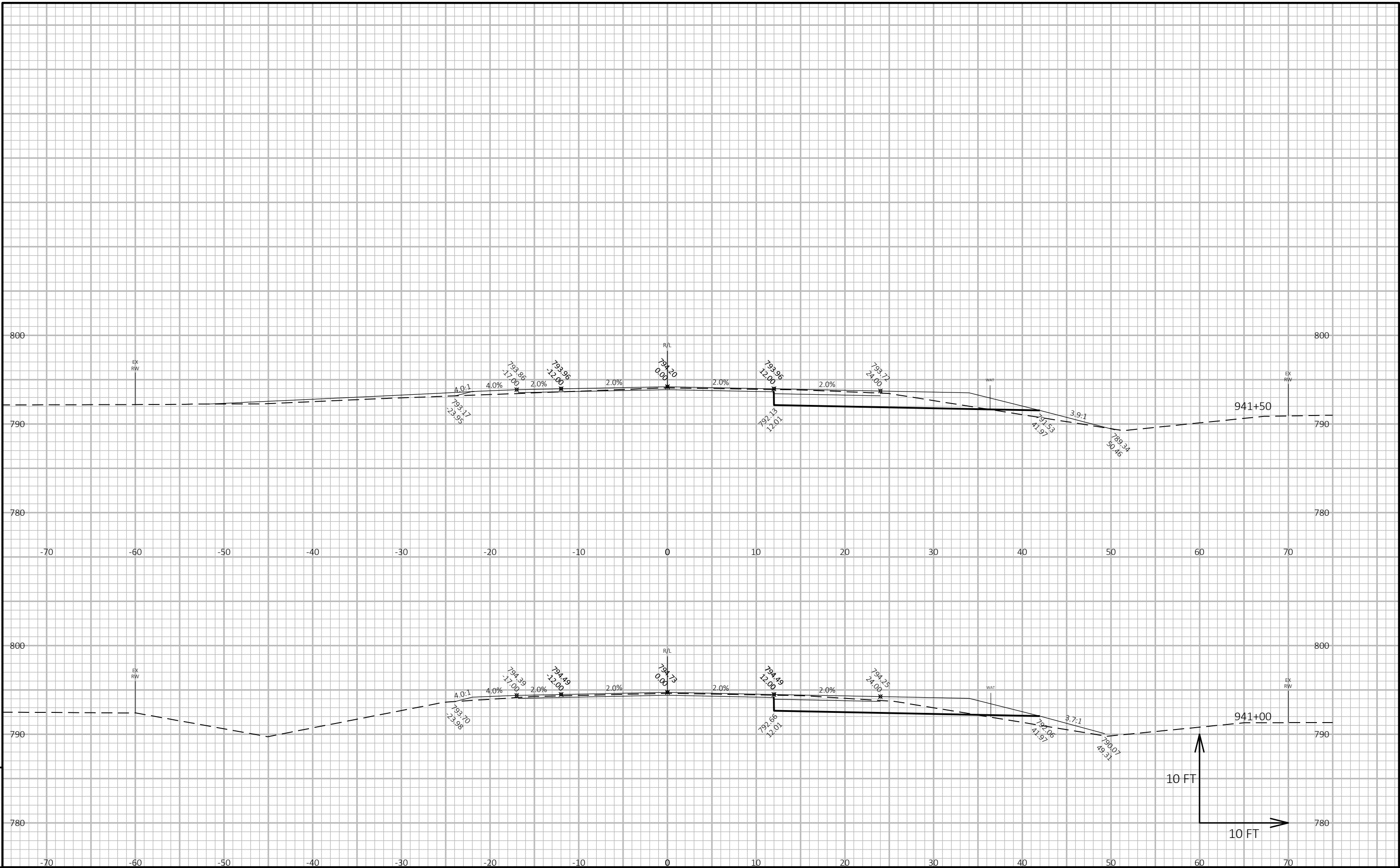


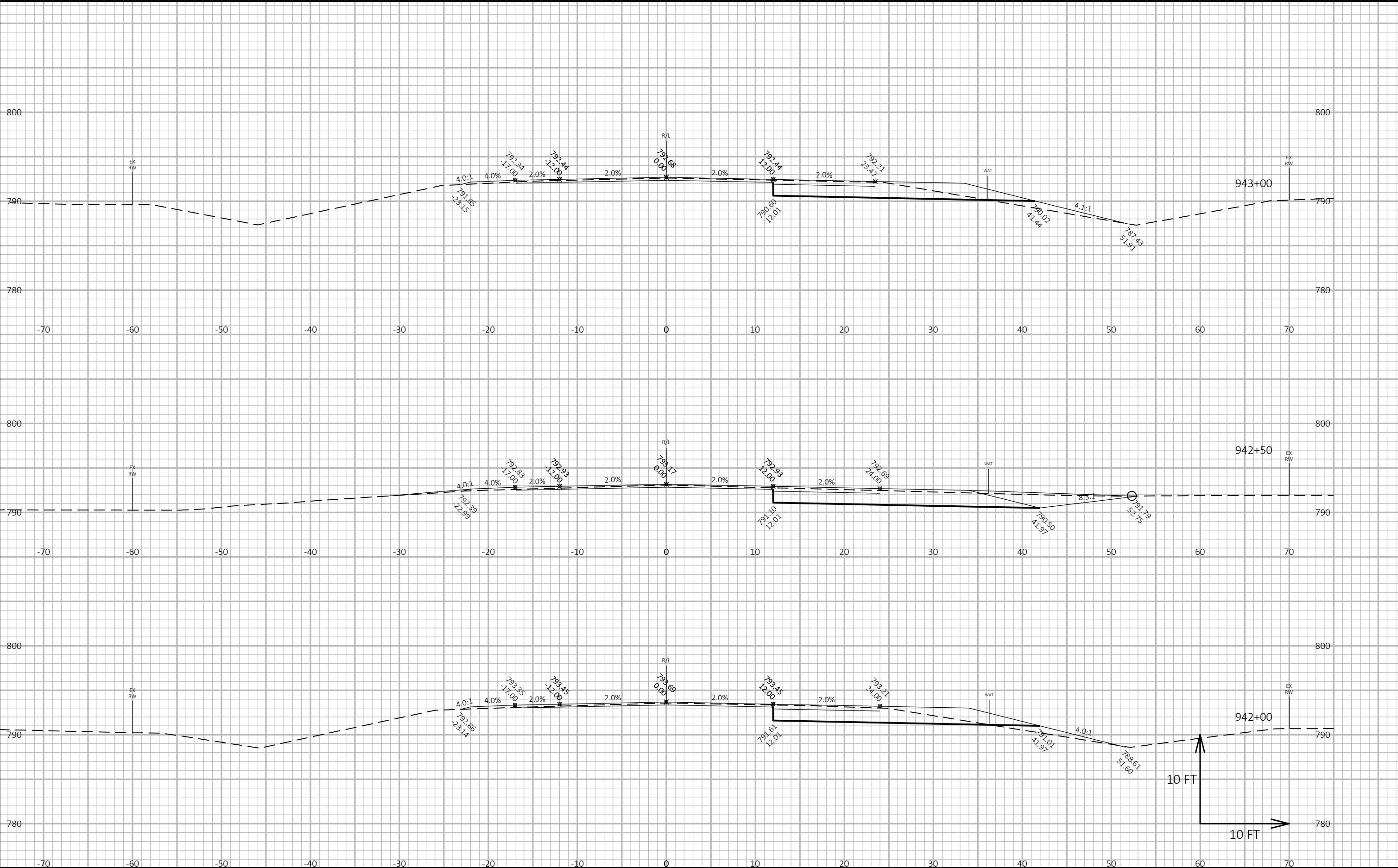


PROJECT NO: 1430-18-72/73	HWY: STH 23	COUNTY: FOND DU LAC	CROSS SECTIONS: STH 23 @ ESTERBROOK RD	SHEET E
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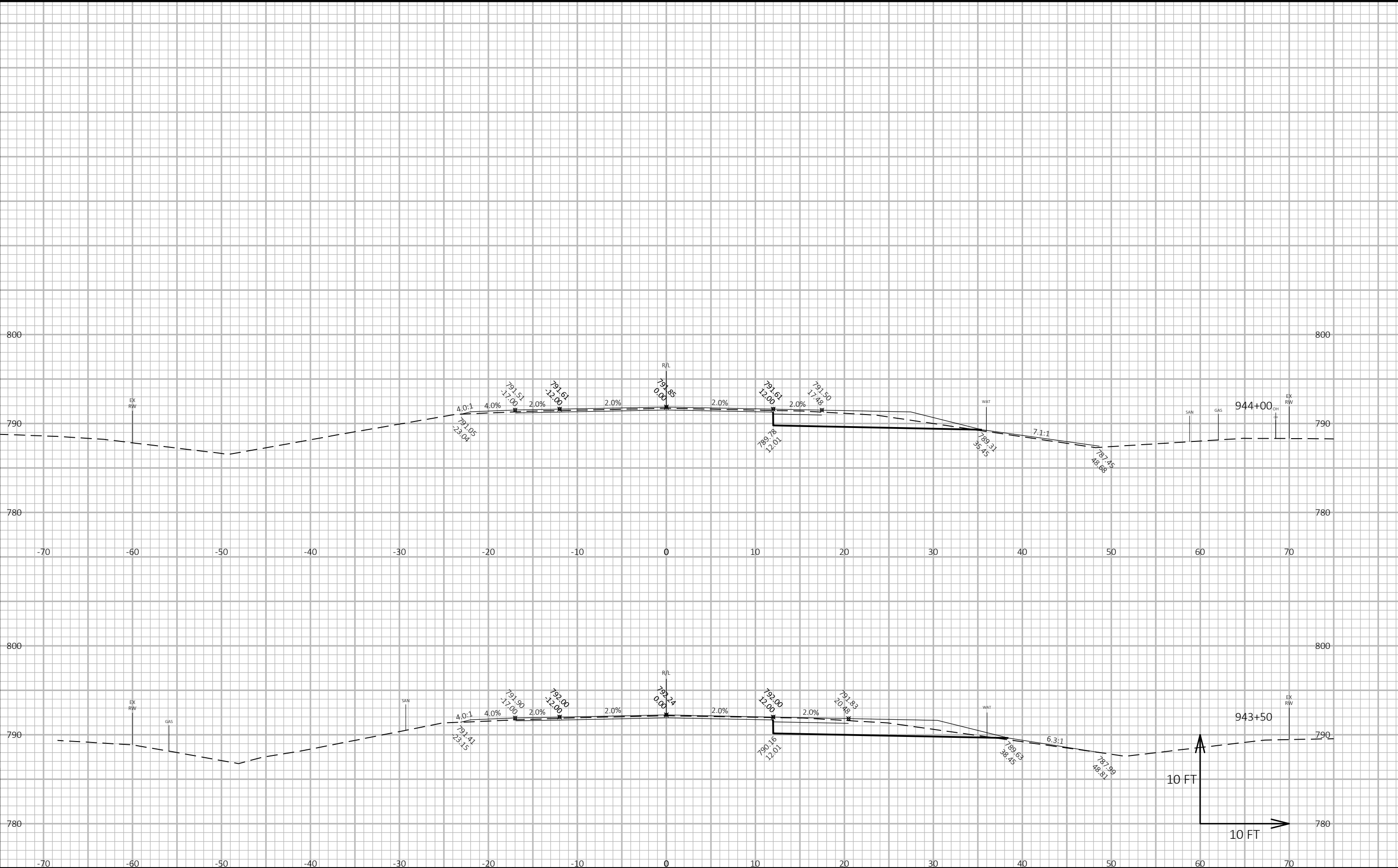


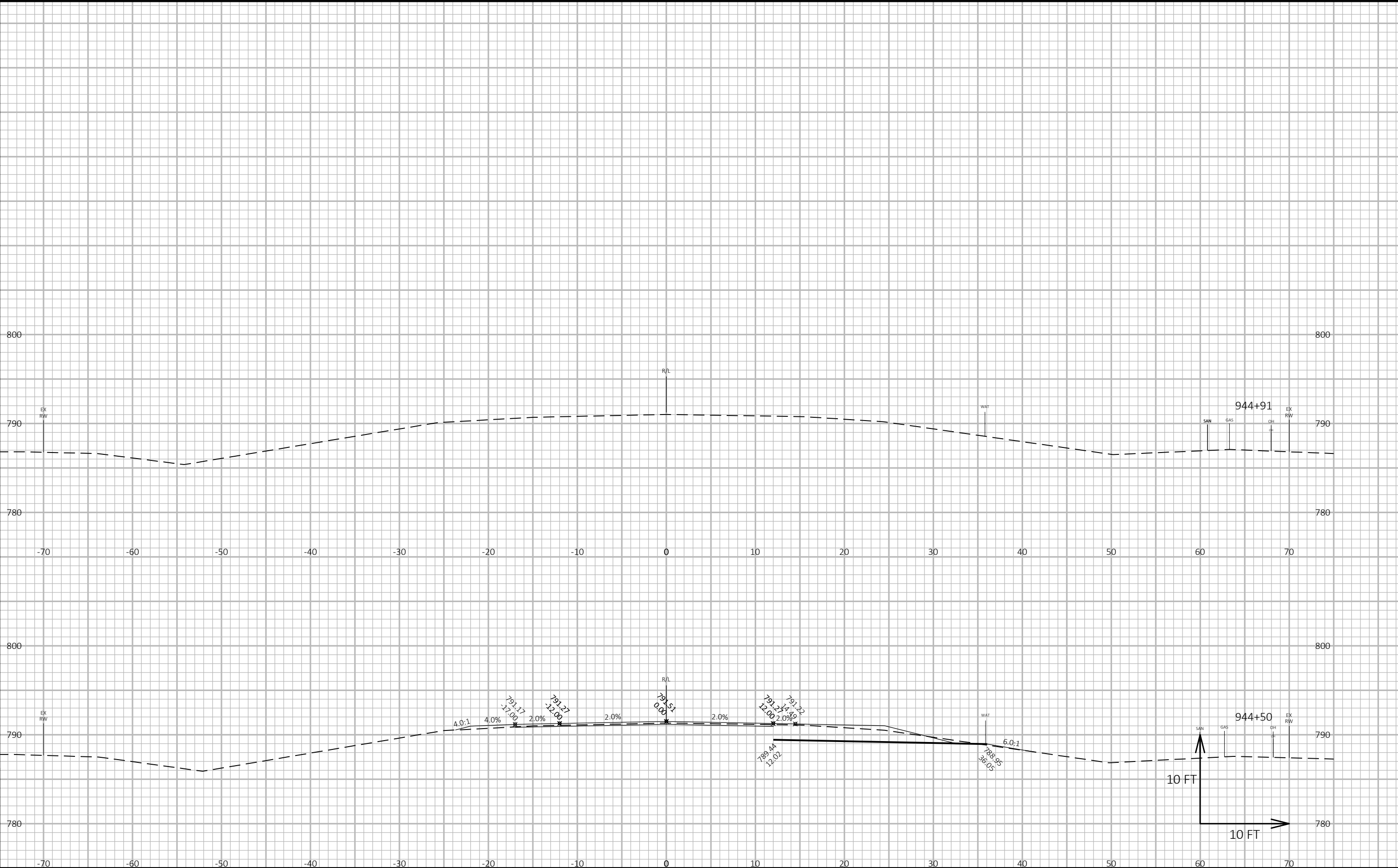


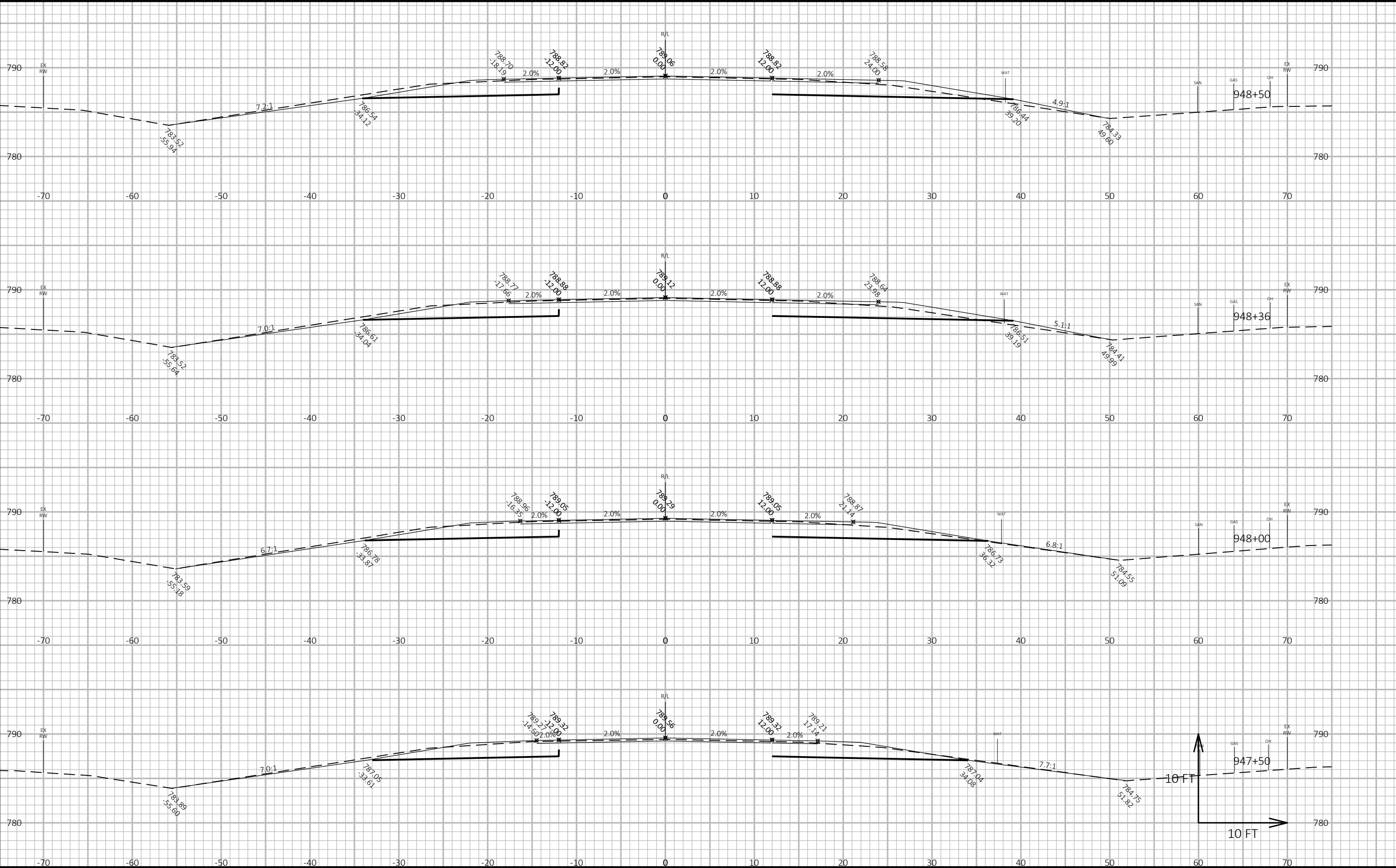


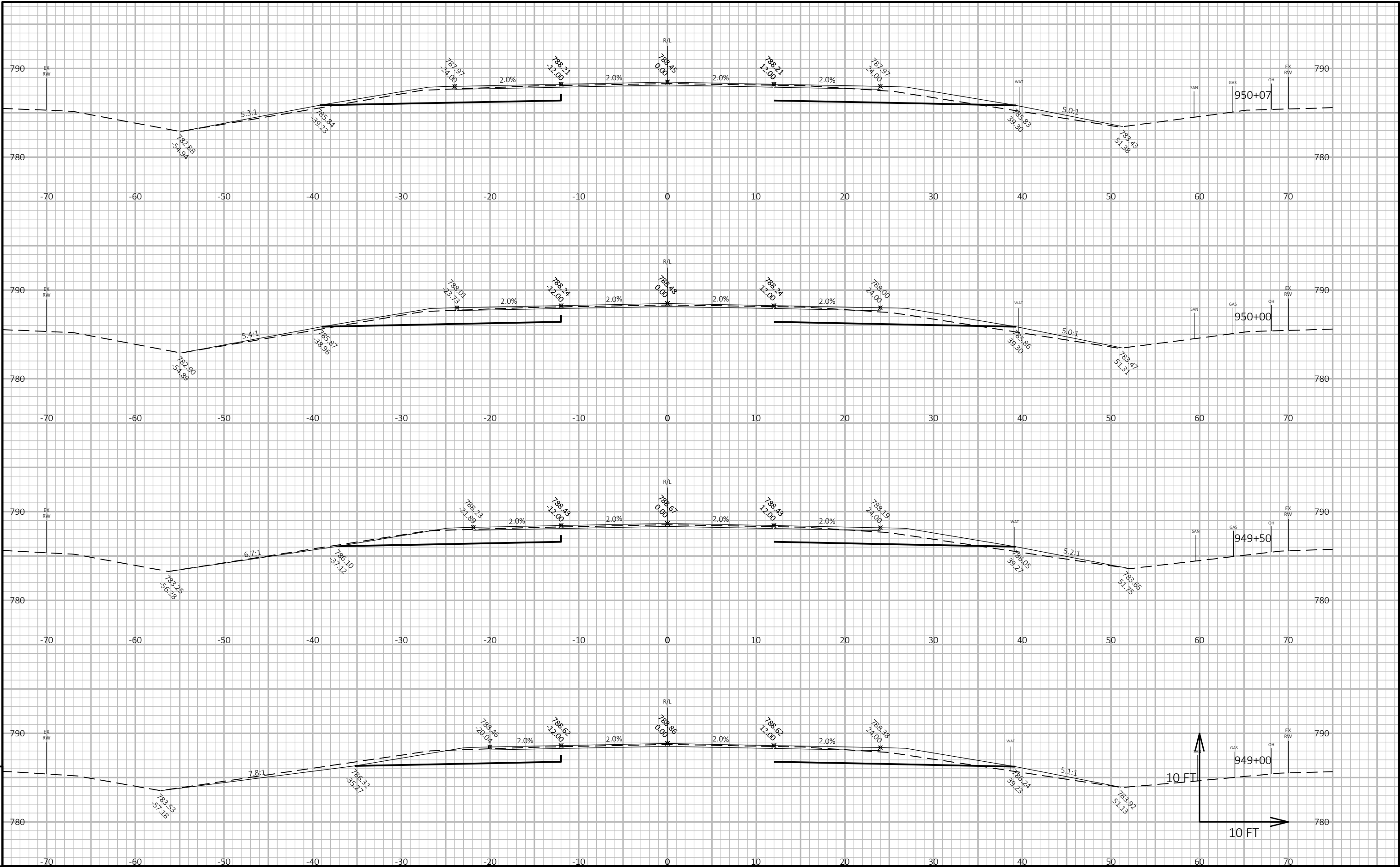


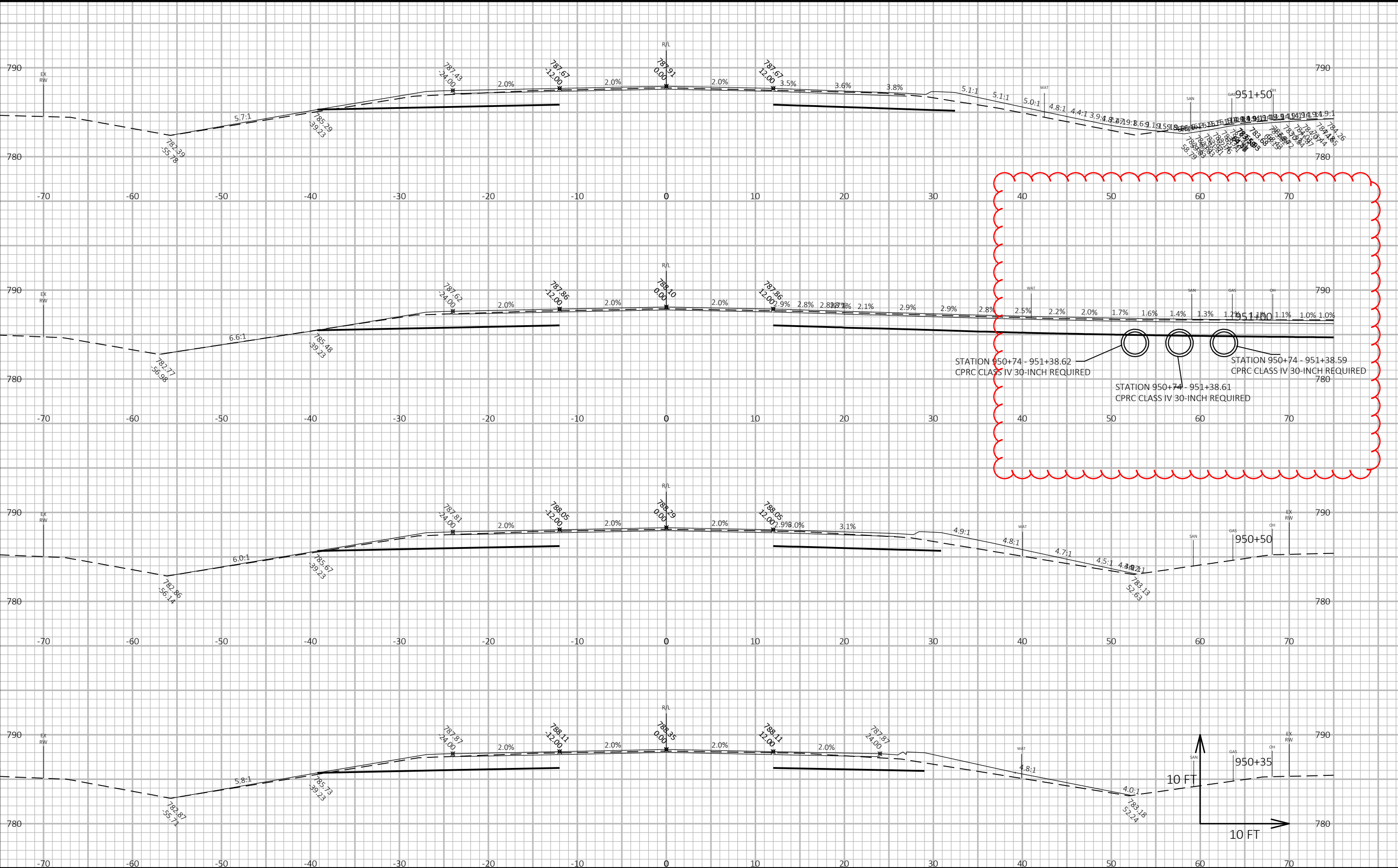
PROJECT NO: 1430-18-72/73	HWY: STH 23	COUNTY: FOND DU LAC	CROSS SECTIONS: STH 23 @ ESTERBROOK RD	SHEET E
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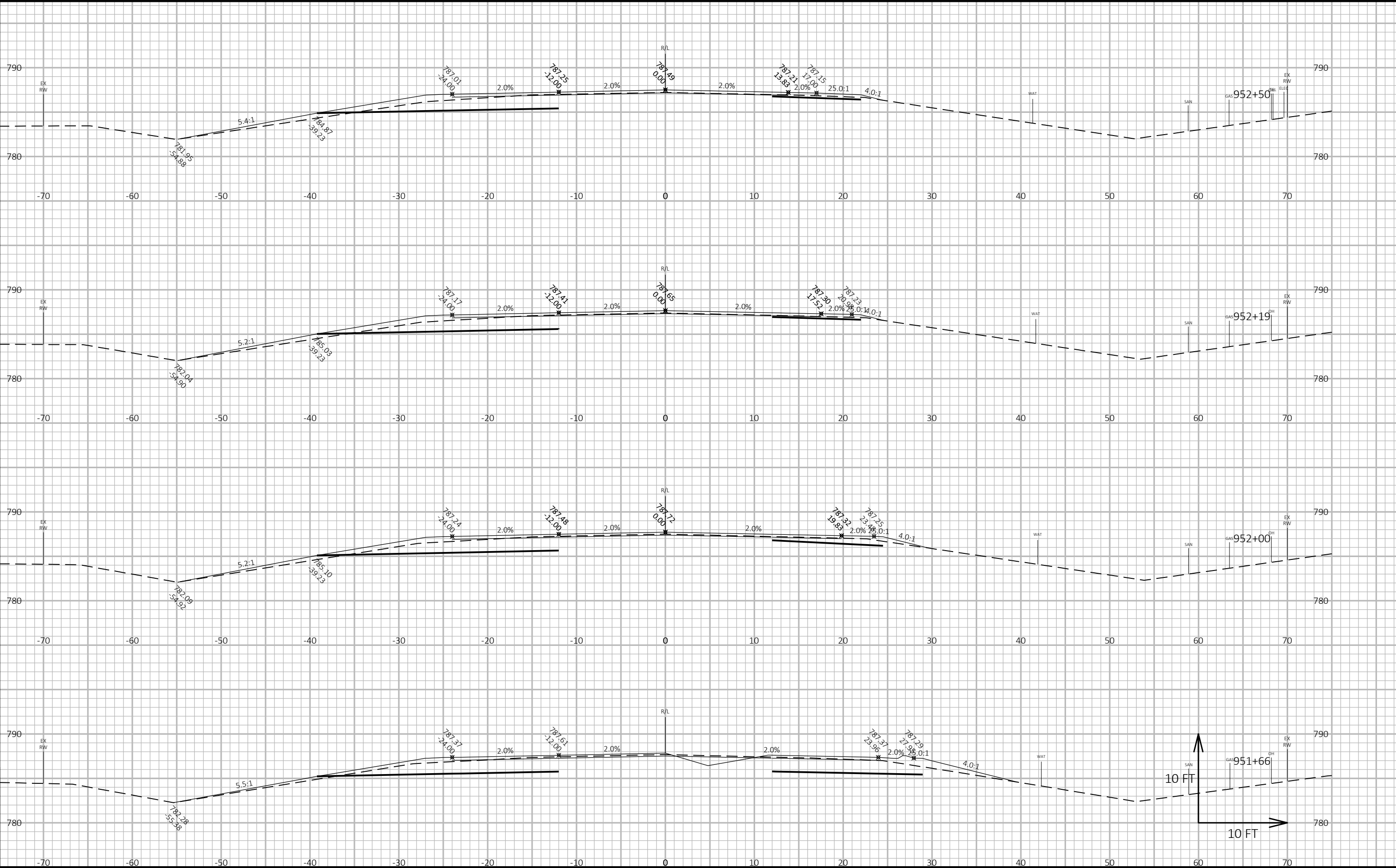


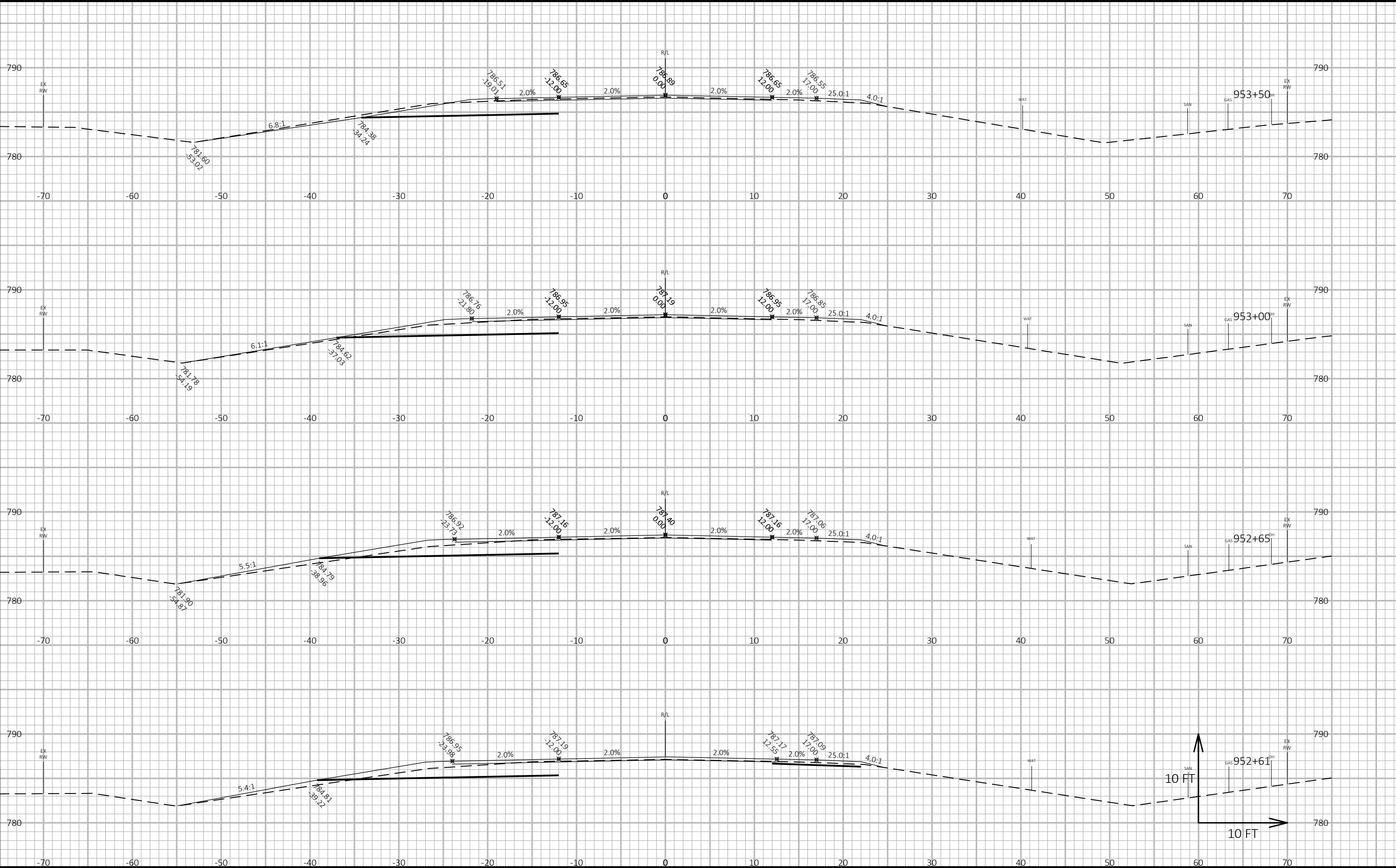




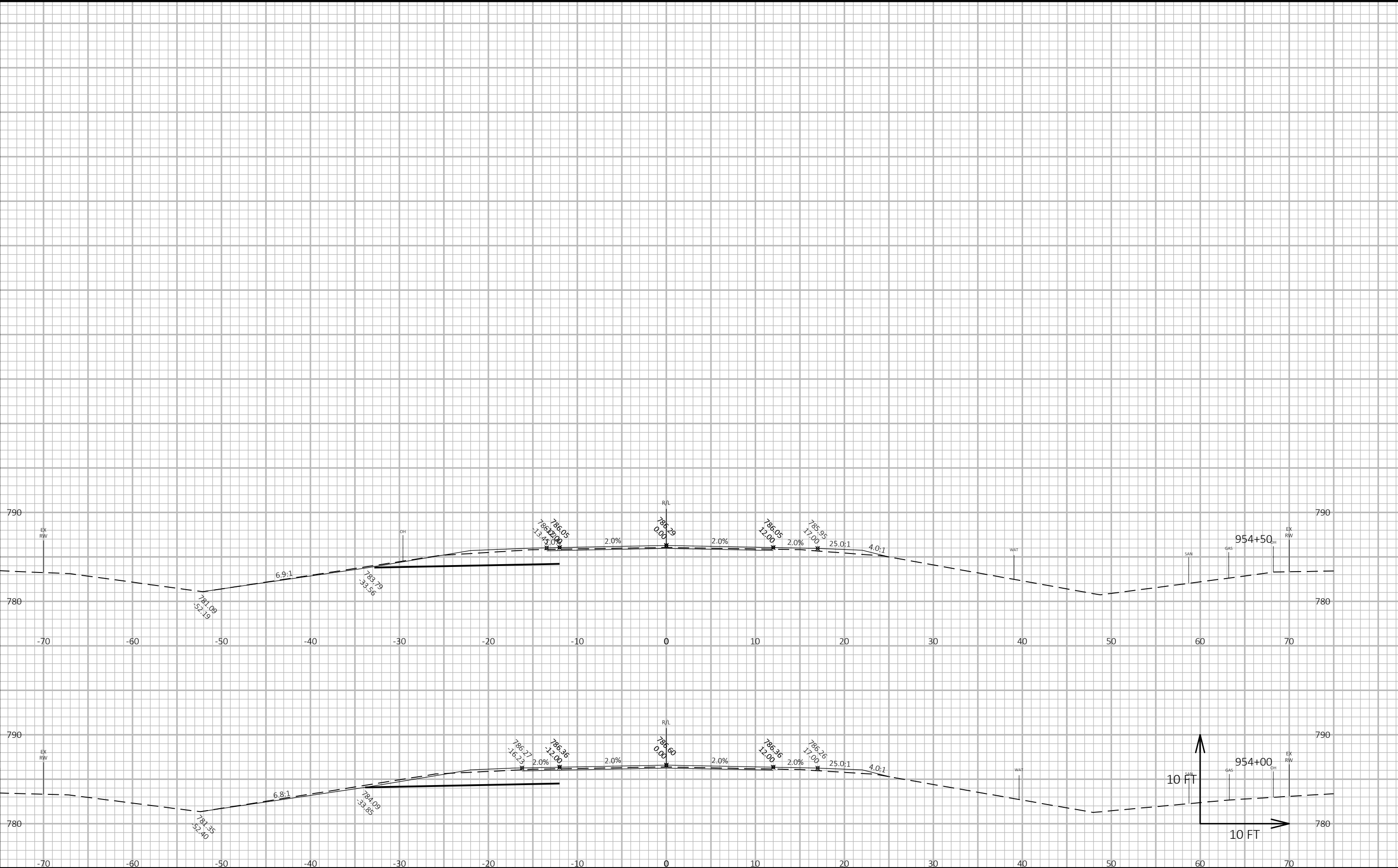




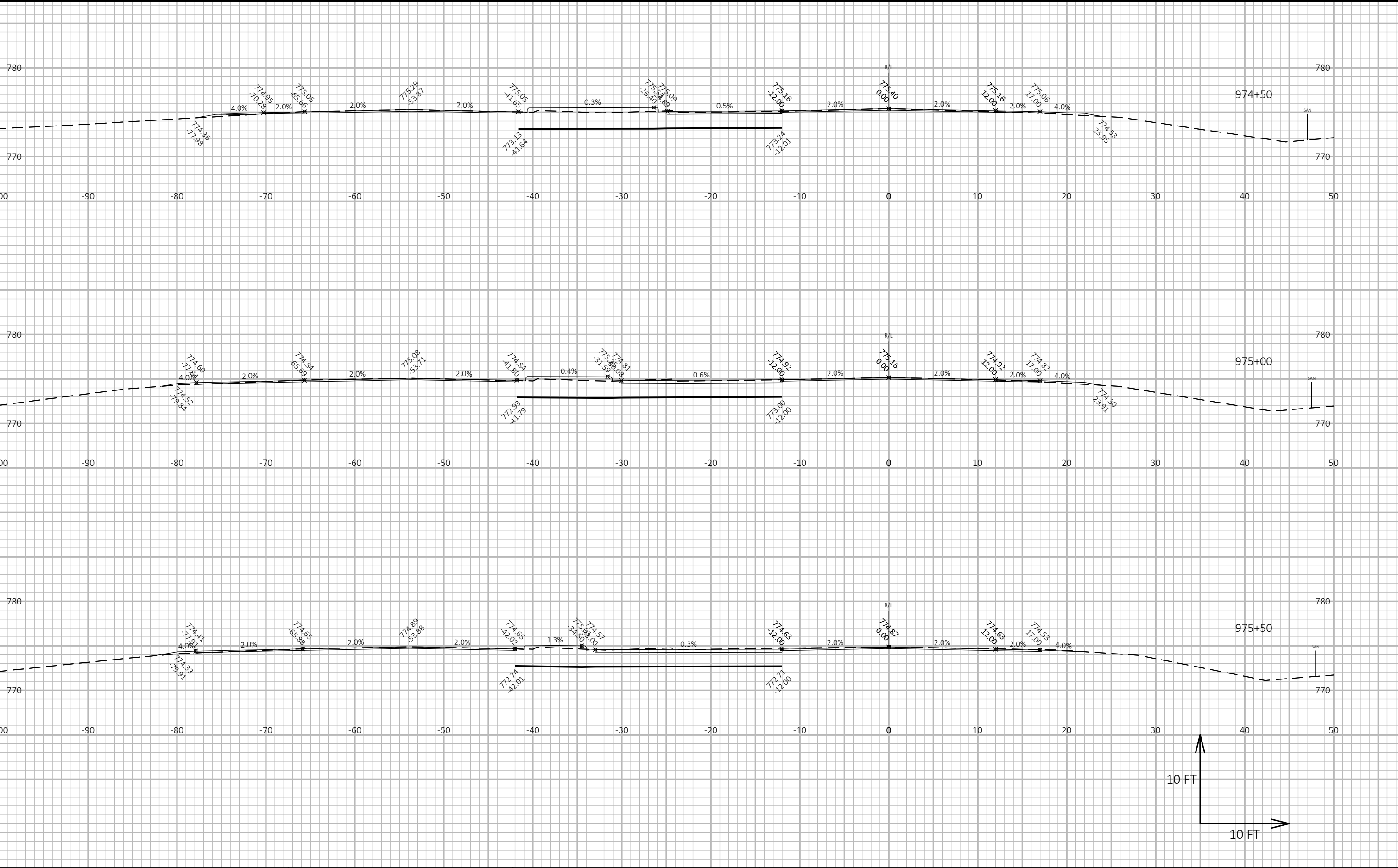


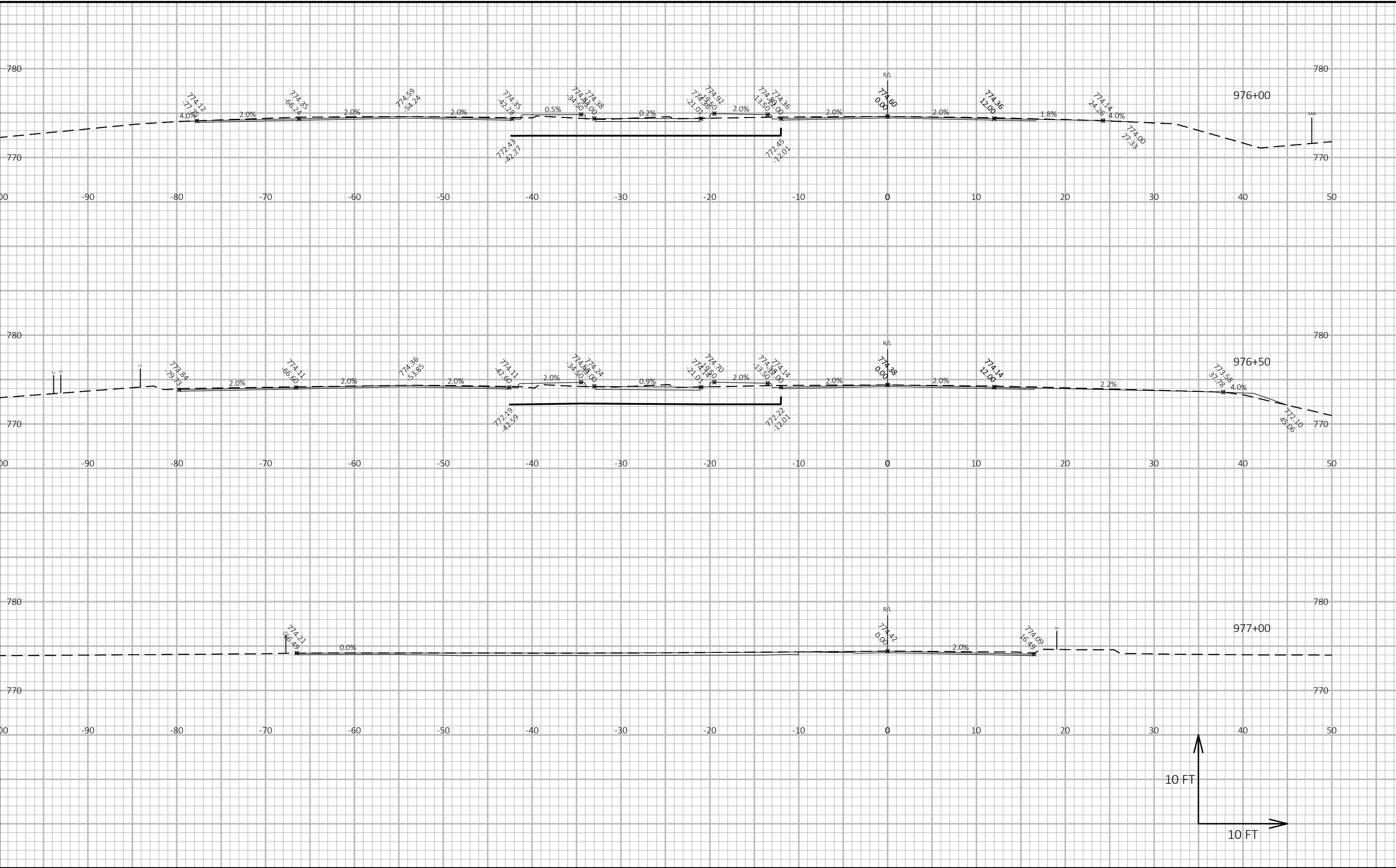


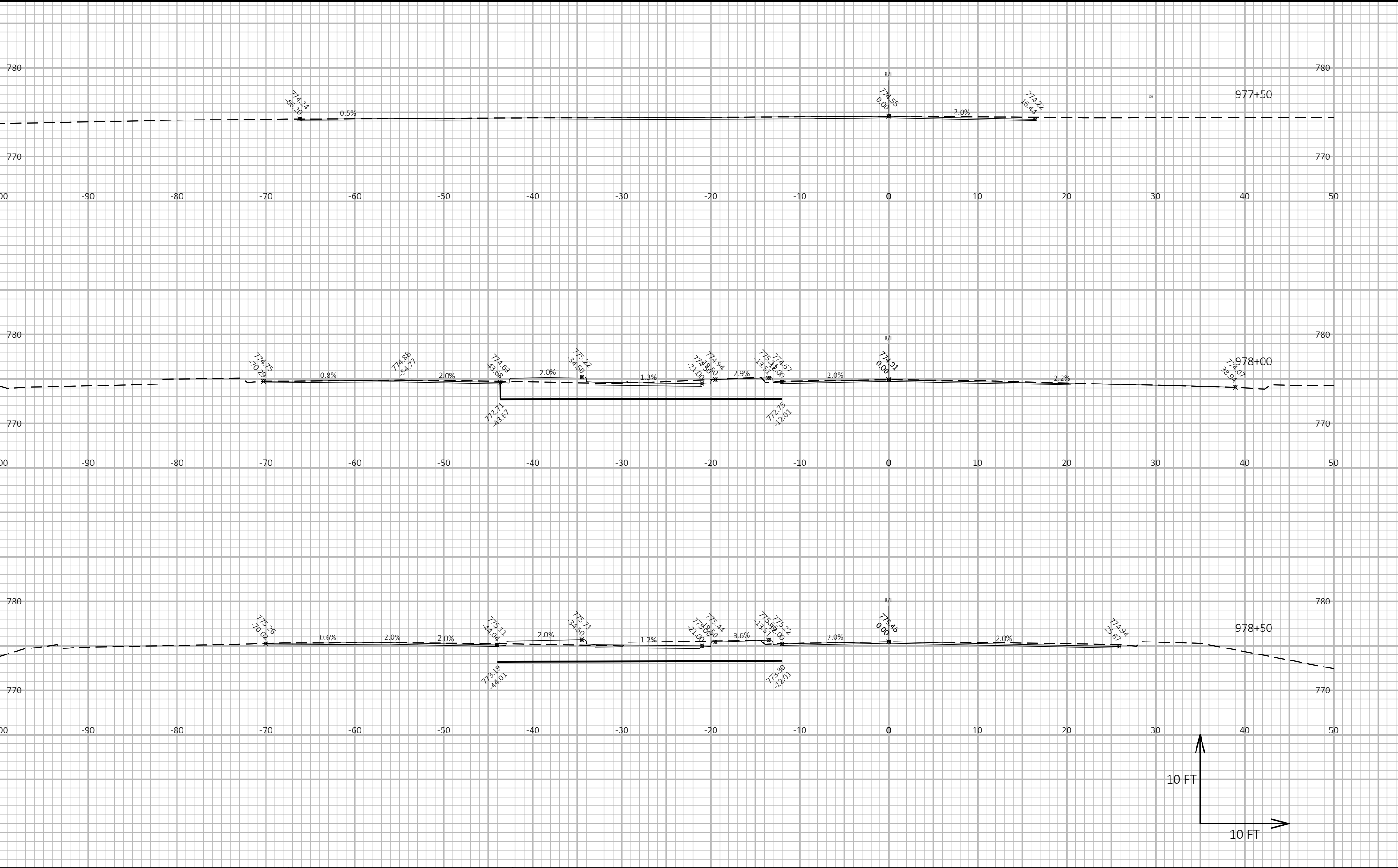
PROJECT NO:	1430-18-72/73	HWY:	STH 23	COUNTY:	FOND DU LAC	CROSS SECTIONS:	STH 23 @ WRIGHTWAY DR	SHEET	E
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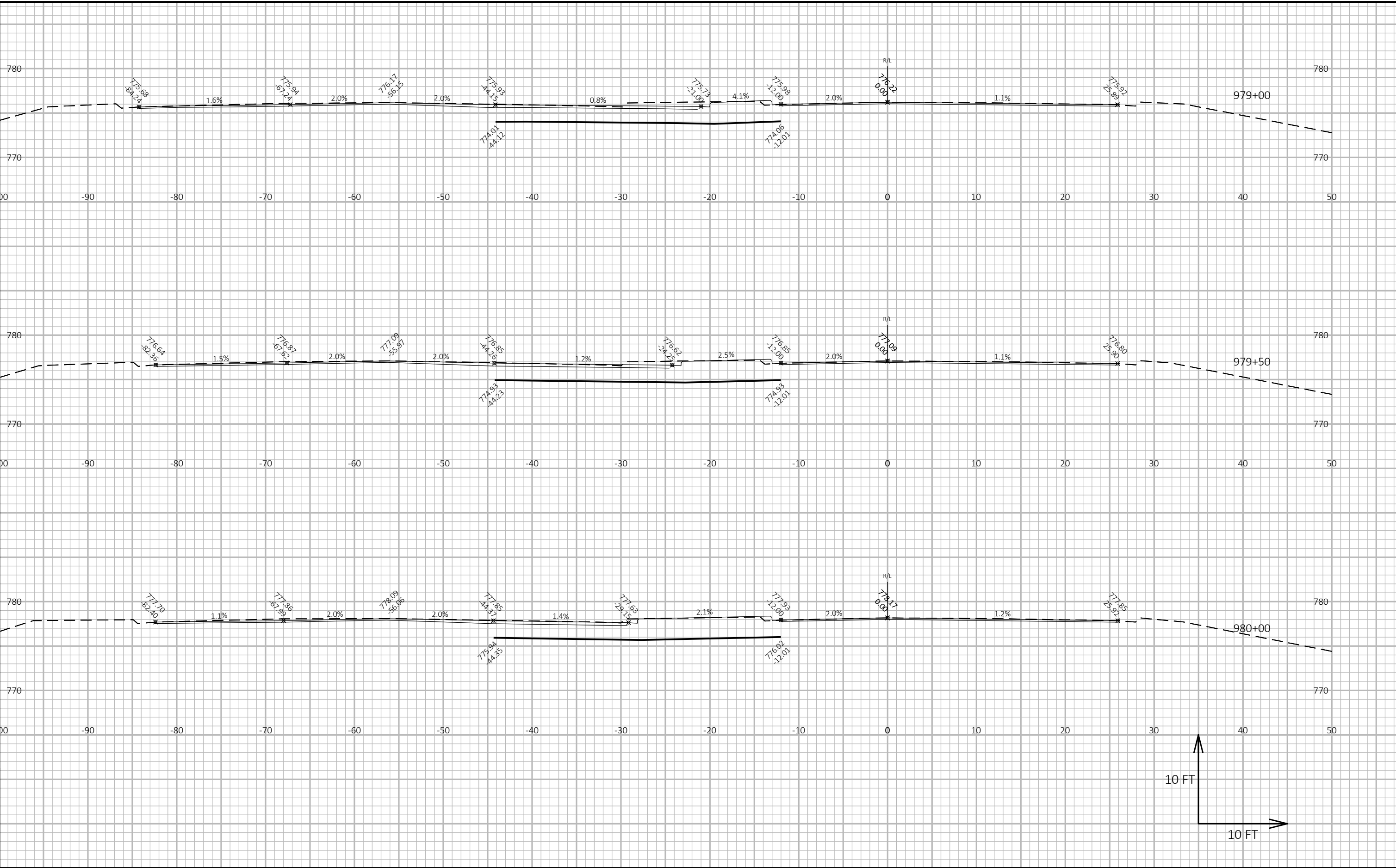


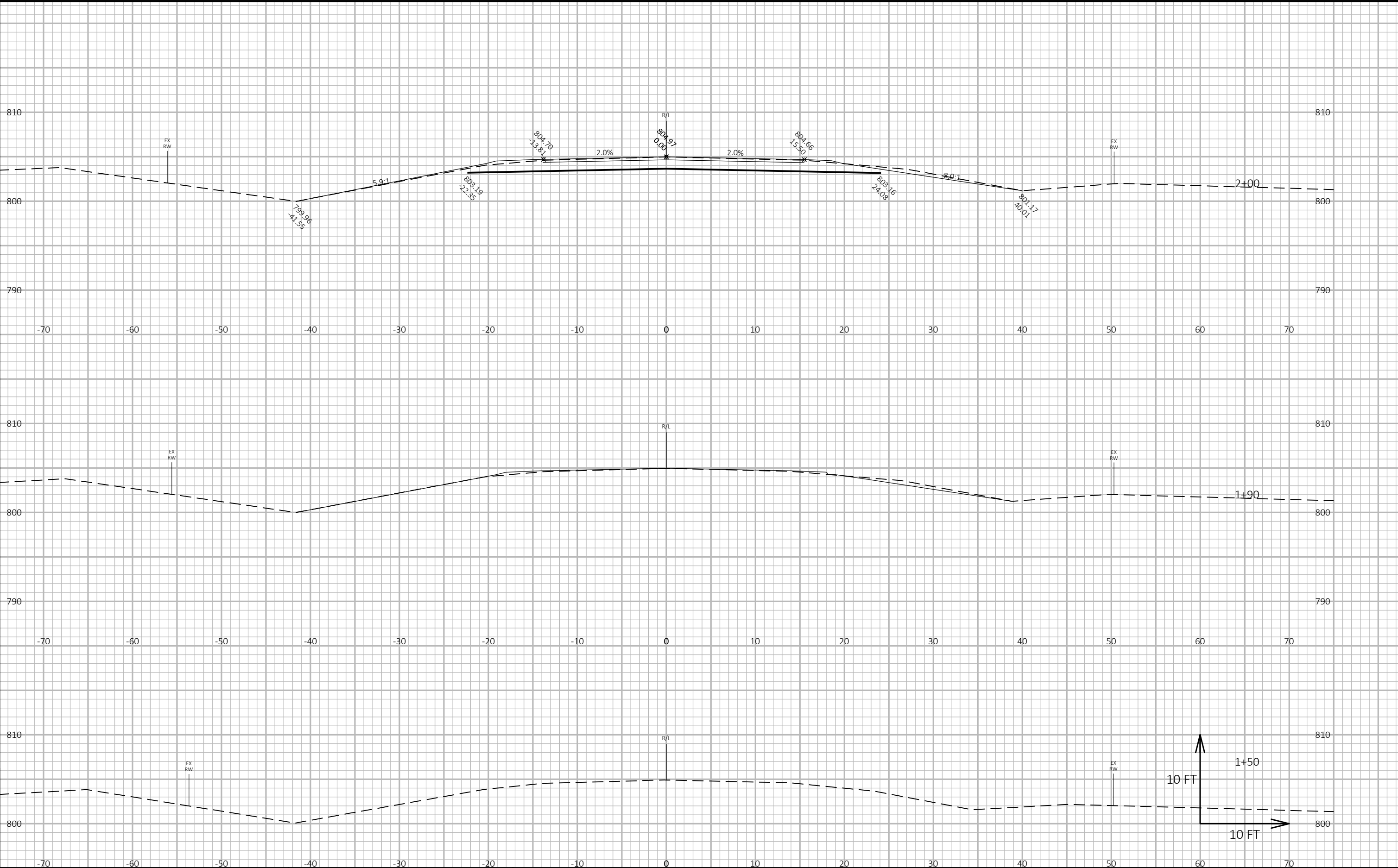


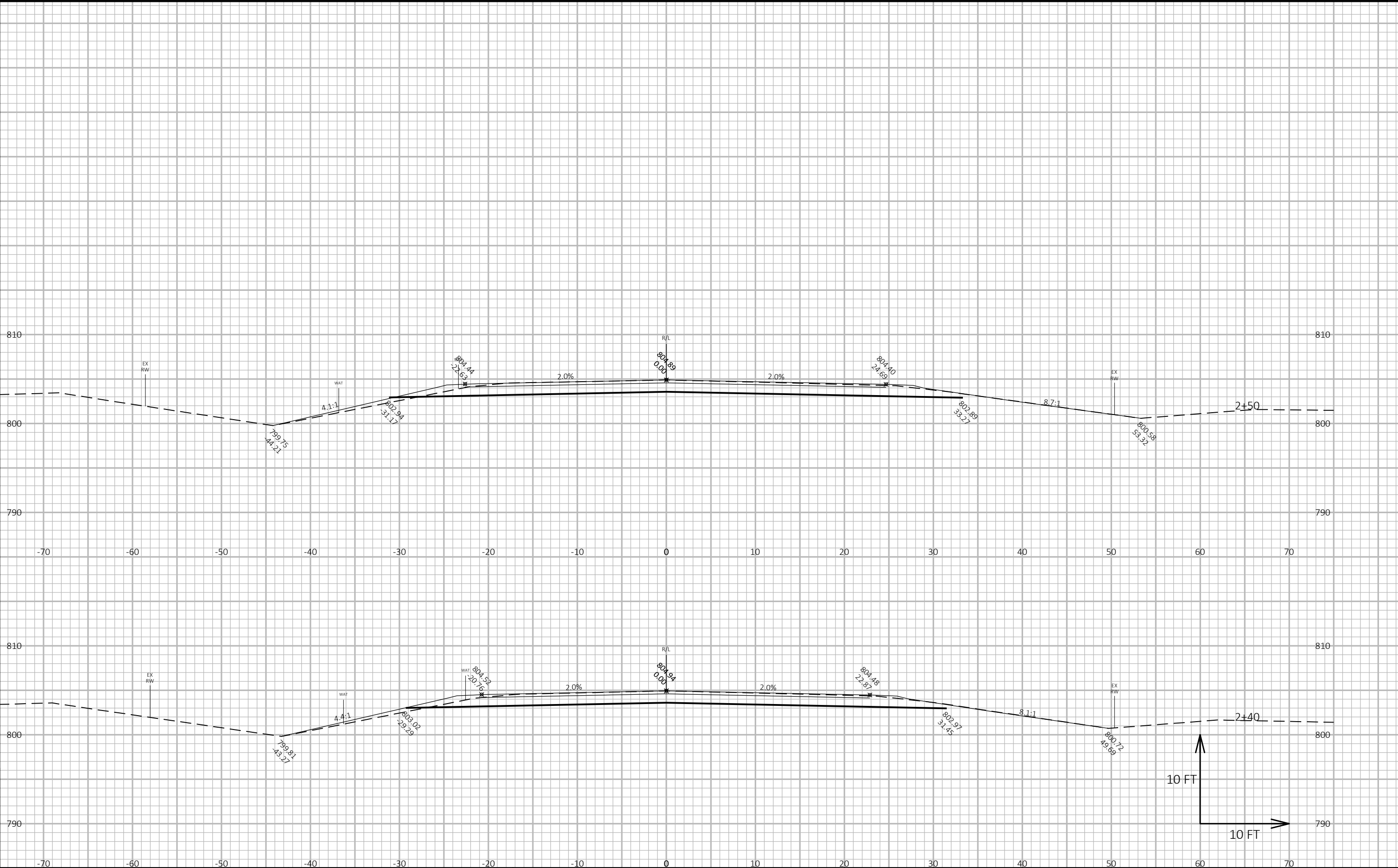


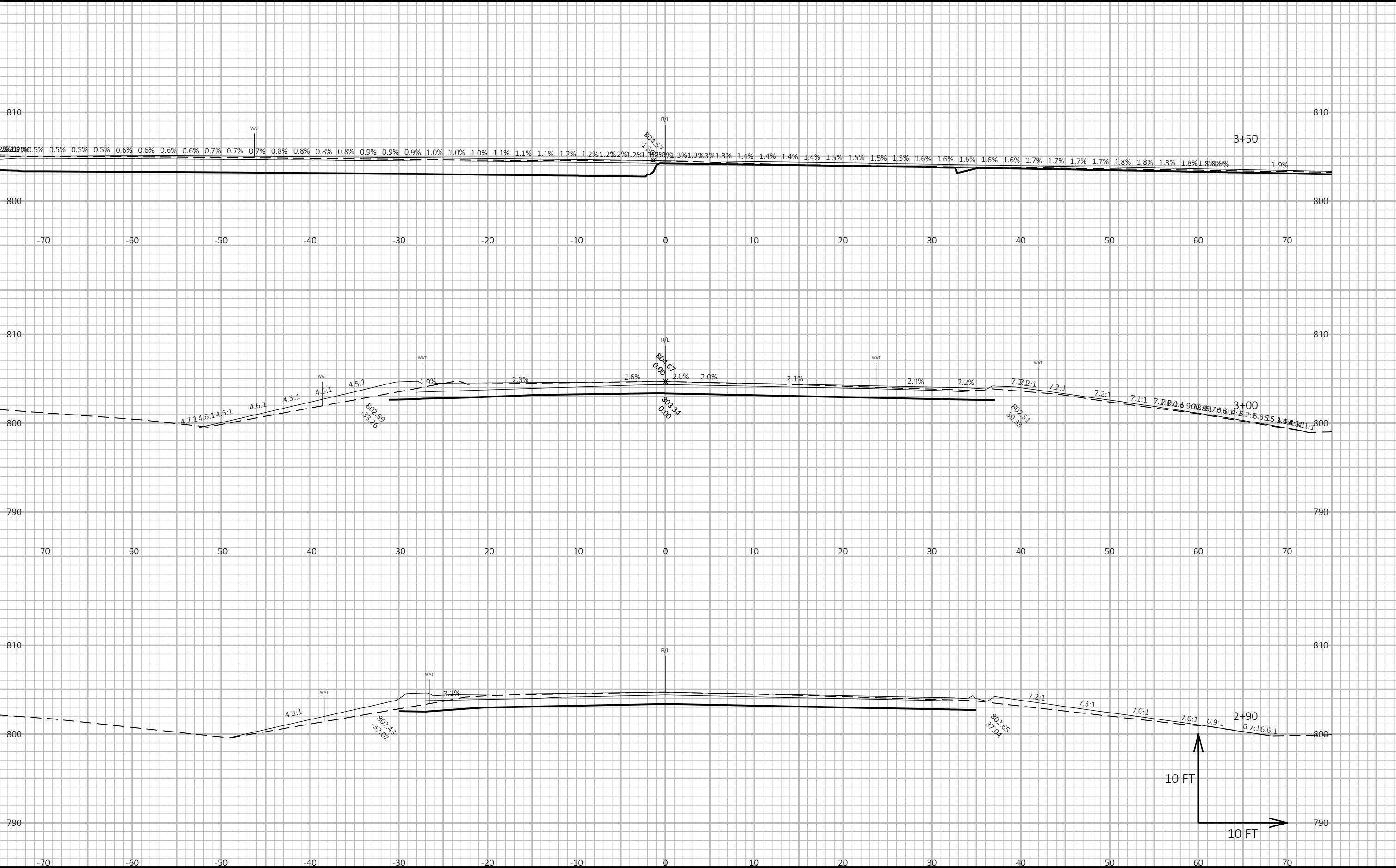












PROJECT NO:	1430-18-72/73	HWY:	STH 23	COUNTY:	FOND DU LAC	CROSS SECTIONS:	ESTERBROOK RD	SHEET	E
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